



VIA ELECTRONIC MAIL

May 23, 2023

Karen A. Cahill
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Division of Environmental Remediation
New York State Department of Environmental Conservation R7
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Syracuse, NY 13214-1867

**Subject: Onsite Buildings Vapor Intrusion Sampling Results – March 2023
Emerson Electric Co. Site in Ithaca, New York (DER Site No. 7-55-010)**

Dear Ms. Cahill:

On behalf of Emerson Electric Co. (Emerson), WSP USA Inc. (WSP) collected sub-slab soil vapor and indoor air samples in March 2023 from onsite buildings in Operable Unit 2 (OU-2) of the former Emerson Power Transmission (EPT) facility site at 620 South Aurora Street in Ithaca, New York. The samples were collected in accordance with the OU-2 Vapor Intrusion Assessment Work Plan – Revised, dated March 6, 2023, and approved by the New York State Department of Environmental Conservation (NYSDEC) on March 8, 2023. This report provides a summary of the sample collection methods, analytical results, a comparison of the results to the New York State Department of Health (NYSDOH) soil vapor intrusion decision matrices¹, and a comparison to previous sampling results collected between 2005 and 2013.

PREVIOUS VAPOR INTRUSION ASSESSMENTS

OU-2 contains 5 non-contiguous buildings, including the main plant building, which is a conglomeration of 22 buildings (Figure 1). The buildings have various numbers of floors and have either a basement or slab-on-grade construction. In addition, some buildings have a split-level construction containing both a basement foundation and slab-on-grade due to the terraced construction in the hillside. The various foundations of each building within the main plant building are depicted on Figure 1 as “Basement-Lower Level,” “Main Level,” and “Upper Level.” Table 1 summarizes the building numbers, foundation types, lowest level for those buildings within the main plant building, and number of floors for each building. As indicated in Table 1, some buildings have partial slabs due to exposed former excavation areas or gravel-filled pits from previous investigations.

Sub-slab soil vapor and indoor air samples were collected by WSP, on behalf of EPT, between 2005 and 2010, and by LaBella Associates, on behalf of L Enterprises, LLC, in 2013 to assess the potential for vapor intrusion into most of the onsite buildings. Previous sampling locations are shown on Figure 1. The analytical results were compared to the NYSDOH decision matrices to determine which of the following potential actions should be taken to address current and potential exposures related to soil vapor intrusion: (1) No Further Action, (2) Identify Sources and Resample or Mitigate, (3) Monitor, or (4) Mitigate. The NYSDOH has developed decision matrices for eight volatile organic compounds (VOCs); carbon tetrachloride, 1,1-dichloroethene (DCE), cis-1,2-DCE, trichloroethene (TCE), methylene chloride, tetrachloroethene, 1,1,1-trichloroethane, and vinyl chloride. Based on the previous

¹ NYSDOH. Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated October 2006, and associated updates.



indoor air and sub-slab soil vapor sampling events, TCE is the primary compound of concern at the former EPT facility. The maximum concentration of TCE detected in 2013 sub-slab soil vapor samples was 33 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) in Building 6, and in 2013 indoor air samples was $80 \mu\text{g}/\text{m}^3$ in Buildings 5 and 6². The following table summarizes the NYSDOH’s recommended actions associated with the previous sub-slab soil vapor and indoor air sample results for each building.

NYSDOH DECISION MATRIX RECOMMENDED ACTION	BUILDING NUMBER
No Further Action	14, 15, 17, 35
Identify Sources and Resample, or Mitigate	1, 6A (Main Level), 13A, 13B, 34 (Main Level – North)
Monitor	2 (Basement/Lower Level), 11A, 33 (Main Level), 34 (Main Level - South)
Mitigate	2 (Main Level), 3, 4, 5, 6, 6A (Basement/Lower Level), 8, 9, 10, 18, 21, 24, 33 (Basement/Lower Level), 34 (Basement/Lower Level)

MARCH 2023 VAPOR INTRUSION ASSESSMENT

The March 2023 vapor intrusion assessment consisted of a single event per building constituting the heating season (winter/early spring) in accordance with the NYSDOH soil vapor intrusion guidance, and included the following tasks:

- Perform building inspections and material inventories prior to sampling in each building, except Buildings 14, 15, 17, and 35, which were not sampled in March 2023 because the previous data indicated that no further action was needed in these buildings;
- Collect 26 primary and 2 duplicate sub-slab soil vapor samples and 27 primary and 2 duplicate indoor air samples; and
- Collect two ambient (outdoor) air samples at upwind locations selected on the day of sampling to evaluate potential background sources for VOCs.

Sub-slab soil vapor and indoor air samples were collected at the lowest level of each building. An indoor air sample was also collected on the first floor of Building 1. For buildings with a split-level construction (i.e., Building 2, 6A, 24, 33, and 34) both foundation types (i.e., basement and slab-on-grade) were sampled (Figure 1). As practical, locations were selected in the field to ensure adequate spatial coverage. For example, given the size of Building 34 (approximately 100,000 square feet on the Main Level), samples were collected from the north and south ends of the building. Multiple locations were also sampled in the basements of Buildings 4 and 21 to be relatively consistent with historical sampling locations from these buildings. Given similar foundation construction and a lack of pressure inducing barriers (doors and walls) between the spaces, samples collected in Buildings 4, 8, 9, and 10 were considered representative of these buildings and their associated additions (i.e., Buildings 4A, 8A, 9A, and 10A/3A, respectively).

Figure 1 shows the locations of the sub-slab soil vapor and indoor air samples collected in applicable buildings as well as the previous sampling locations. All procedures described in the approved work plan were followed during the sampling activities; a brief summary of these procedures is included below followed by a presentation of the results.

² According to LaBella Associates, the floor slab removal from Building 4 likely influenced the indoor air result for the sample collected in Buildings 5 and 6.



PRE-SAMPLING ACTIVITIES

A pre-sampling site inspection and materials inventory were conducted on March 13, 2023, at least 48 hours prior to conducting the sampling activities to provide sufficient time for VOCs emitted from stored products that were subsequently removed from the building or sealed in plastic bags to dissipate. During the site inspection, WSP evaluated each of the former manufacturing building's layout and construction, conducted an inventory of materials and equipment stored in the building, and completed NYSDOH's indoor air quality questionnaire and building inventory form (Enclosure A).

The inspection included an evaluation of potential preferential pathways for VOCs to enter the structure, such as areas of exposed subsurface, cracks in the slab and foundation, elevator pits, tunnels, and utility penetrations. During the pre-sampling inspection, known locations of building footers, underground utilities, and other below grade structures (e.g., vaults, tunnels) were noted on the inventory forms.

During the initial site visit, WSP installed permanent sub-slab soil vapor probes at the proposed sample locations in accordance with the procedures outlined in the work plan. To obtain representative samples, the probes were allowed to equilibrate a minimum of 24 hours prior to sampling.

SAMPLING ACTIVITIES

Sample collection was conducted over a 24-hour period from March 15 to 16, 2023. Before each sub-slab soil vapor sample was collected, a pre-sample purge was conducted to remove dilution air from the tubing and probe assembly attached to a 6-liter canister. The evacuated, laboratory-certified clean, 6-liter canister's valve was then opened initiating sample collection, and the initial vacuum reading, ambient temperature, and barometric pressure were recorded. Also, the differential pressure between the sub-slab and indoor air space were recorded at each sub-slab soil vapor sample location. Once the required pressure was reached on the regulator (between 2 to 10 inches of Hg [in. Hg] on the regulator dial), the final vacuum reading, ambient temperature, and barometric pressure were recorded, and sample collection was completed by closing the canister valve. The sample train was then disassembled and the Vapor Pin® port closed. The ambient temperature, barometric pressure, and differential pressure readings collected during this sampling event are summarized in Table B-1 in Enclosure B.

Indoor air samples were collected concurrently with the sub-slab soil vapor samples to evaluate the potential for vapor intrusion of VOCs into each building. In addition, two outdoor (ambient) air samples were collected upwind of the buildings concurrently with the indoor air samples to assess site-specific background outdoor air quality. The outdoor (ambient) air sample locations were selected in the field based on the wind direction. The indoor and outdoor air samples were collected using evacuated, laboratory-certified clean, 6-liter canisters placed approximately 5 feet above ground surface to be representative of the breathing zone.

All samples were labeled and placed in a shipping container for transport under ambient conditions to ALS Environmental in Simi Valley, California (ALS), under strict chain-of-custody procedures. ALS analyzed the samples for VOCs by U.S. Environmental Protection Agency (EPA) Method TO-15 using standard or low-level scan modes depending on the compound.

QUALITY ASSURANCE/QUALITY CONTROL

Quality assurance/quality control (QC) procedures were followed to ensure sample integrity and data quality. All canisters were submitted under ambient conditions to ALS under strict chain-of-custody procedures. ALS is accredited through the New York State Environmental Laboratory Approval Program (ELAP) to perform analysis of VOCs in air samples by EPA Method TO-15 (ELAP ID 11221). In addition, the analytical results were validated by a WSP chemist.

Before use in the field, all sampling canisters were individually certified cleaned by ALS. This certification involved cleaning the canister units using a combination of heat, dilution, and high vacuum. Each canister unit was analyzed for VOCs after the cleaning process by allowing it to fill with analyte-free air then analyzing the air using gas chromatography/mass spectrometry. If no VOC was detected at concentrations above the canister cleaning QC acceptance criteria, then the canister was evacuated again and was deemed



ready for sampling. If any VOC was detected at a concentration above the QC acceptance criteria, then the canister unit was re-cleaned. ALS noted in their case narrative that the containers were cleaned, prior to sampling, down to the method reporting limit for this project.

Before initiating sub-slab soil vapor and indoor air sampling, the initial vacuum of each canister was checked to make sure it was at least approximately 25 in. Hg. If a canister was initially found to contain less vacuum, it may indicate that a leak had occurred in transit. Prior to sampling, the canisters used for the sub-slab soil vapor and indoor air samples at the site had vacuums between 27.33 and 29.84 in. Hg.

Duplicate sub-slab vapor samples were collected in Buildings 10 and 34 and duplicate indoor air samples were collected from Buildings 11A and 24. The duplicate samples were collected at the same time and from the same sample location as the primary sample using a “T-splitter” provided by the laboratory. Field duplicates are useful in documenting the precision of the sampling process. The field duplicate samples identities were not provided to the laboratory.

SAMPLING RESULTS

The results for the sub-slab soil vapor, indoor air, and outdoor (ambient) air samples collected in March 2023 at the former EPT site are provided in Table 2, and the laboratory data package and data usability summary report prepared by the WSP chemist are included as Enclosure C.

The eight compounds of concern (COCs) previously identified for this site are shown at the top of the table with the remaining VOCs included below. The results for these eight COCs are also provided on Figure 2. Of the eight COCs, TCE had the highest concentrations in the sub-slab vapor and indoor air samples. Concentrations in the sub-slab soil vapor ranged from 0.99 $\mu\text{g}/\text{m}^3$ (Building 4) to 1,000 $\mu\text{g}/\text{m}^3$ (Building 9) and in the indoor air from non-detect (Building 8 and Building 34 - Main Level) to 2.8 $\mu\text{g}/\text{m}^3$ (Building 18).

Table 3 presents a comparison of the sampling results to the applicable NYSDOH decision matrix and the potential actions to be taken. In addition, the potential actions recommended for each building are shown using color coding on Figure 2. The only onsite building that is currently occupied is the first floor in Building 1. The NYSDOH decision matrix recommends mitigation in Building 1 based on the concentration of TCE in the sub-slab soil vapor and indoor air samples. However, the concentration of TCE in the indoor air for the basement and first floor were 1.3 $\mu\text{g}/\text{m}^3$ and 0.67 $\mu\text{g}/\text{m}^3$, respectively, which are below the NYSDOH ambient air guideline of 2 $\mu\text{g}/\text{m}^3$. The NYSDOH’s recommendation of mitigation is to prevent the potential for future vapor intrusion risk should current site conditions change. As described in the NYSDOH vapor intrusion guidance, an effective mitigation approach involves sealing potential vapor entry points and actively manipulating the pressure differential between the building’s interior and exterior to prevent exposures from vapor intrusion. A commonly used approach for manipulating the pressure differential is adjusting the heating, ventilation, and air conditioning (HVAC) system to create and maintain positive pressure in the indoor air space relative to the sub-slab environment. WSP plans to further evaluate the basement of Building 1, and any cracks identified in the concrete slab or walls will likely be sealed to prevent vapor intrusion. In addition, WSP will evaluate the HVAC system on the first floor to determine if adjustments are necessary.

Table 4 provides a comparison of the NYSDOH decision matrix recommended actions based on both the previous and March 2023 sub-slab soil vapor and indoor air sampling results for each building. The buildings where the potential actions remained the same include Buildings 3, 8, 9, 10, 18, 21, 24 (first floor slab-on-grade section), and 34 (north part of Basement/Lower Level). Buildings where the recommended action is “No Further Action” based on the March 2023 data are Buildings 2 (Main Level), 4, 6A (Basement/Lower Level), 13B, 24 (basement), 33 (Basement/Lower Level), and 34 (north part of Main Level); the previous sampling data for these buildings indicated that action was warranted.

Per the Interim Site Management Plan, dated August 19, 2022, WSP will continue to work with the current property owner to evaluate the design of each building to ensure the appropriate vapor mitigation technology is incorporated into the design and renovations of the buildings. Discussions with the property owner indicate that the first buildings to undergo renovations include Buildings 21 and



24. As additional building plans are developed, WSP will re-sample relevant buildings prior to renovation to determine the appropriate design criteria based on potential vapor intrusion, if applicable.

If you have any questions regarding the enclosed information, please contact me at (212) 465-5334 or by email at Lisa.Kelly@wsp.com.

Sincerely yours,

A handwritten signature in blue ink, appearing to read 'Lisa Kelly'.

Lisa Kelly, PG
Vice President

LKK:amr:rl0

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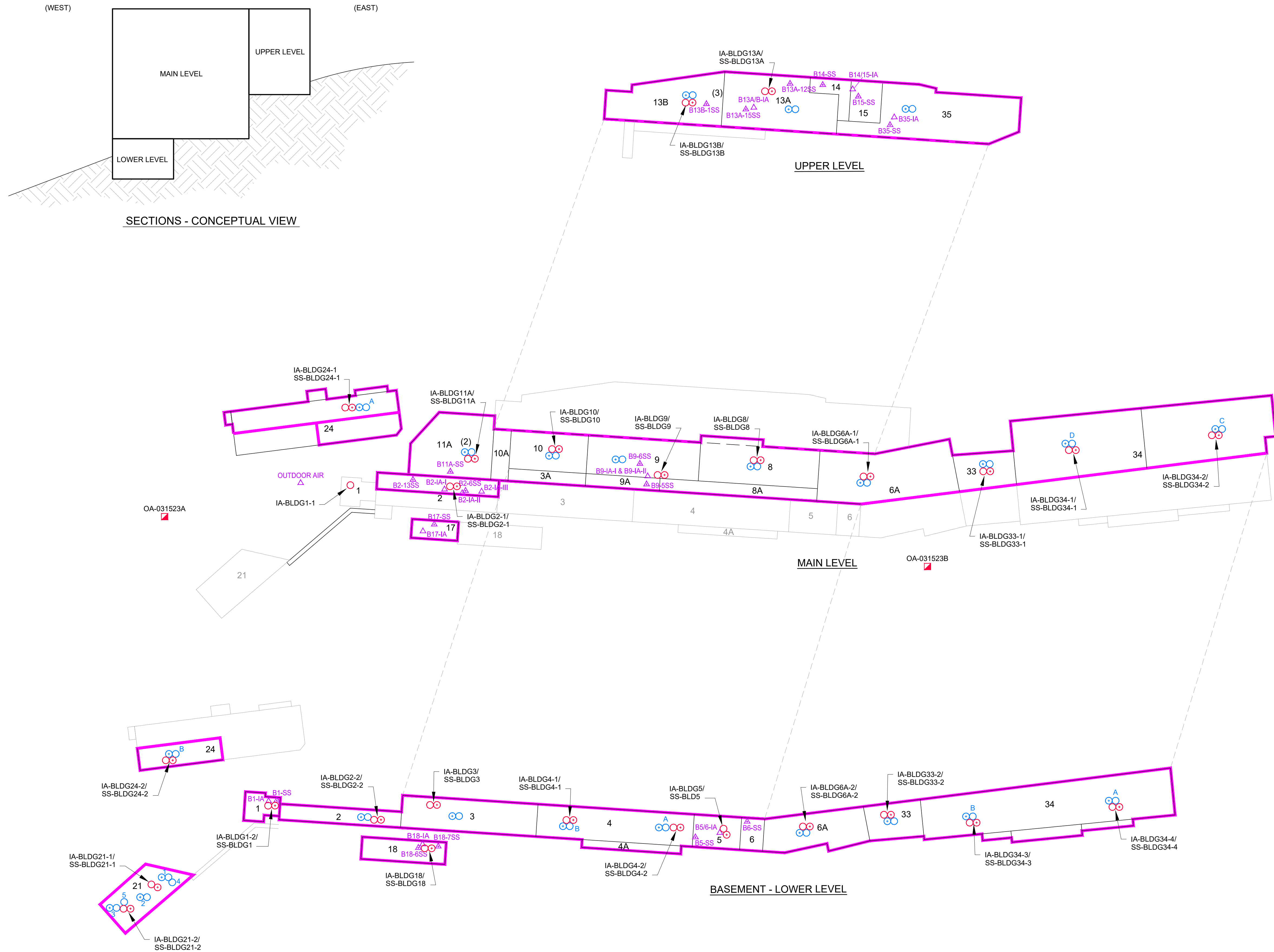
Enclosures

cc/encl: Stephen L. Clarke, Emerson
Anthony Perretta, NYSDOH

FIGURES

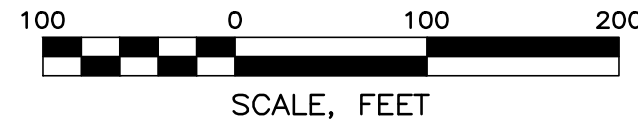
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- LEGEND**
- INDOOR AIR SAMPLE (MARCH 2023)
 - SUB-SLAB SOIL VAPOR SAMPLE (MARCH 2023)
 - OUTDOOR AIR SAMPLE (MARCH 2023)
 - WSP INDOOR AIR SAMPLE (2005, 2006, 2009, or 2010)
 - WSP SUB-SLAB SOIL VAPOR SAMPLE (2005, 2006, 2009, or 2010)
 - △ LABELLA INDOOR AIR SAMPLE (2013)
 - △ LABELLA SUB-SLAB SOIL VAPOR SAMPLE (2013)
 - 11A FACILITY BUILDING NUMBER
 - SLAB ON GRADE

NOTE:
BUILDING 1 MAIN LEVEL SLAB IS ABOVE GRADE.
NO SUB-SLAB VAPOR SAMPLE WAS COLLECTED AT THIS LOCATION.



THE ORIGINAL VERSION OF THIS DRAWING IS IN COLOR. BLACK & WHITE REPRODUCTION MAY NOT ACCURATELY DEPICT CERTAIN INFORMATION.

SUB-SLAB SOIL VAPOR, INDOOR AIR, AND OUTDOOR AIR SAMPLING LOCATIONS
FORMER EMERSON POWER TRANSMISSION SITE
ITHACA, NEW YORK
PREPARED FOR
EMERSON
ST. LOUIS, MISSOURI

WSP
WSP USA Inc.
11 STANWIX STREET, SUITE 950
PITTSBURGH, PA 15222
TEL: +1 412.604.1040

FIGURE 1
Drawing Number
314P5608.001-D36

REVISIONS	
REV	DESCRIPTION
1	Issue
2	Issue
3	Issue
4	Issue
5	Issue

SEAL	
DRAWN BY	APPROVED
CHECKED	APPROVED
PROPERTY OF WSP USA INC. IMPORTANT: THIS DRAWING IS SUBJECT TO MUTUAL ASSISTANCE AND AS SUCH IS SUBJECT TO RECALL AT ANY TIME. IT IS NOT TO BE REPRODUCED OR REPRODUCED IN ANY FORM FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF WSP USA INC. NOTICE: THIS DRAWING HAS BEEN PREPARED UNDER THE PROVISIONS OF THE PROFESSIONAL ENGINEERING ACT AND THE REGULATION OF THE PROFESSIONAL ENGINEERING BOARD OF ST. LOUIS, MISSOURI. ENGINEER, TO ALTER THIS DOCUMENT IN ANY WAY.	

NYSDOH
SOIL VAPOR / INDOOR AIR MATRICES
MAY 2017

MATRIX A: Trichloroethene (TCE), cis-1,2-Dichloroethene (cis-DCE), 1,1-Dichloroethene (1,1-DCE) Carbon Tetrachloride (CT)

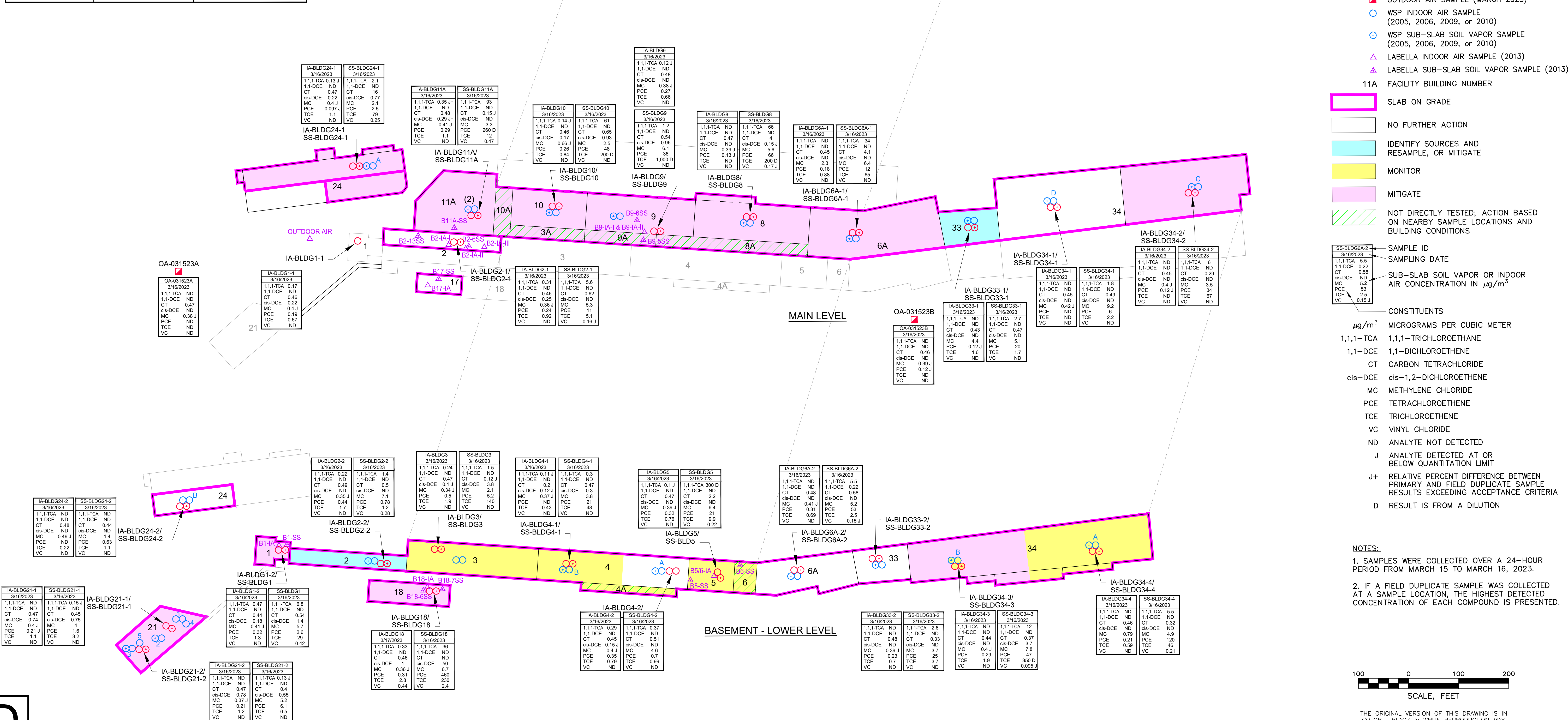
SUB-SLAB VAPOR CONCENTRATION OF COMPOUND ($\mu\text{g}/\text{m}^3$)	INDOOR AIR CONCENTRATION OF COMPOUND ($\mu\text{g}/\text{m}^3$)		
	< 0.2	0.2 to < 1	1 AND ABOVE
< 6	1. NO FURTHER ACTION	2. NO FURTHER ACTION	3. IDENTIFY SOURCE(S) AND RESAMPLE, OR MITIGATE
6 to < 60	4. NO FURTHER ACTION	5. MONITOR	6. MITIGATE
60 AND ABOVE	7. MITIGATE	8. MITIGATE	9. MITIGATE

MATRIX B: Tetrachloroethene (PCE), 1,1,1-Trichloroethene (1,1,1-TCA), Methylene Chloride (MC)

SUB-SLAB VAPOR CONCENTRATION OF COMPOUND ($\mu\text{g}/\text{m}^3$)	INDOOR AIR CONCENTRATION OF COMPOUND ($\mu\text{g}/\text{m}^3$)		
	< 3	3 to < 10	10 AND ABOVE
< 100	1. NO FURTHER ACTION	2. NO FURTHER ACTION	3. IDENTIFY SOURCE(S) AND RESAMPLE, OR MITIGATE
100 to < 1,000	4. NO FURTHER ACTION	5. MONITOR	6. MITIGATE
1,000 AND ABOVE	7. MITIGATE	8. MITIGATE	9. MITIGATE

MATRIX C: Vinyl Chloride (VC)

SUB-SLAB VAPOR CONCENTRATION OF COMPOUND ($\mu\text{g}/\text{m}^3$)	INDOOR AIR CONCENTRATION OF COMPOUND ($\mu\text{g}/\text{m}^3$)	
	< 0.2	0.2 AND ABOVE
< 6	1. NO FURTHER ACTION	3. IDENTIFY SOURCE(S) AND RESAMPLE, OR MITIGATE
6 to < 60	4. MONITOR	4. MITIGATE
60 AND ABOVE	5. MITIGATE	6. MITIGATE



SUB-SLAB SOIL VAPOR, INDOOR AIR, AND
OUTDOOR AIR SAMPLING LOCATIONS
AND RESULTS - MARCH 2023
FORMER EMERSON POWER TRANSMISSION SITE
ITHACA, NEW YORK



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FIGURE 2

Drawing Number

314P5608.001-D30

TABLES

Table 1

**Summary of Building Information
Former Emerson Power Transmission
Ithaca, New York**

Building Number	Foundation Type (a)	Lowest Level of Main Plant Building (b)	Number of Floors
1	Full Basement	Basement/Lower	5
2	Full Basement	Basement/Lower	4
	Slab-on-Grade	Main	3
3	Full Basement (Partial Slab)	Basement/Lower	4
3A	Slab-on-Grade	Main	1
4	Full Basement (Partial Slab)	Basement/Lower	4
4A	Full Basement	Basement/Lower	1
5	Full Basement (Partial Slab)	Basement/Lower	5
6	Full Basement	Basement/Lower	2
6A	Full Basement	Basement/Lower	2
	Slab-on-Grade	Main	1
8	Slab-on-Grade (Partial Slab)	Main	1
8A	Slab-on-Grade	Main	1
9	Slab-on-Grade (Partial Slab)	Main	1
10	Slab-on-Grade	Main	1
10A	Slab-on-Grade	Main	1
11A	Slab-on-Grade (Partial Slab)	Main	1
13A	Slab-on-Grade (Partial Slab)	Upper	1
13B	Slab-on-Grade	Upper	1
14	Slab-on-Grade	Upper	1
15	Slab-on-Grade (Partial Slab)	Upper	1
17	Slab-on-Grade	-	1
18	Full Basement	-	2
21	Full Basement	-	4
24	Full Basement	-	5
	Slab-on-Grade	-	4
33	Full Basement	Basement/Lower	2
	Slab-on-Grade	Main	1
34	Full Basement	Basement/Lower	2
	Slab-on-Grade	Main	1
35	Slab-on-Grade (Partial Slab)	Upper	1

a/ Foundations with partial slabs either had exposed former excavation areas or gravel-filled test pits from previous investigations.

b/ Levels shown on Figures 1 and 2.

Table 2

Indoor Air and Sub-Slab Soil Vapor Sample Results
(March 15-16, 2023)
Former Emerson Power Transmission
Ithaca, New York (a)

Building Number:	Building 1			Building 2				Building 3		Building 4			
Building Level:	1st Floor	Basement/Lower		Main		Basement/Lower		Basement/Lower		Basement/Lower			
Sample Type:	IA	IA	SS	IA	SS	IA	SS	IA	SS	IA	SS	IA	SS
Sub Location:	1	2	--	1	1	2	2	--	--	1	1	2	2
Sample Name:	IA-BLDG1-1	IA-BLDG1-2	SS-BLDG1	IA-BLDG2-1	SS-BLDG2-1	IA-BLDG2-2	SS-BLDG2-2	IA-BLDG3	SS-BLDG3	IA-BLDG4-1	SS-BLDG4-1	IA-BLDG4-2	SS-BLDG4-2
VOCs (µg/m³)													
1,1,1-Trichloroethane	0.17	0.47	6.8	0.31	5.6	0.22	1.4	0.24	1.5	0.11 J	0.3	0.29	0.37
1,1-Dichloroethane	0.16 U	0.17 U	0.19 U	0.15 U	0.19 U	0.17 U	0.18 U	0.15 U	0.18 U	0.16 U	0.18 U	0.17 U	0.18 U
Carbon tetrachloride	0.46	0.44	0.54	0.46	0.62	0.49	0.5	0.47	0.12 J	0.2	0.47	0.45	0.51
cis-1,2-Dichloroethane	0.22	0.18	1.4	0.25	0.19 U	0.17 U	0.18 U	0.1 J	3.8	0.12 J	0.3	0.15 J	0.18 U
Methylene chloride	0.4 J	0.41 J	5.7	0.36 J	5.3	0.35 J	7.1	0.34 J	2.1	0.37 J	3.8	0.4 J	4.6
Tetrachloroethane	0.19	0.32	2.6	0.24	11	0.44	0.78	0.5	5.2	0.16 U	21	0.35	0.7
Trichloroethene	0.67	1.3	29	0.92	5.1	1.7	1.2	1.9	140	0.43	48	0.79	0.99
Vinyl chloride	0.16 U	0.17 U	0.42	0.15 U	0.16 J	0.17 U	0.28	0.15 U	0.18 U	0.16 U	0.18 U	0.17 U	0.18 U
1,1,2,2-Tetrachloroethane	0.16 U	0.17 U	0.19 U	0.15 U	0.19 U	0.17 U	0.18 U	0.15 U	0.18 U	0.16 U	0.18 U	0.17 U	0.18 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.5 J	0.55 J	0.55 J	0.49 J	0.52 J	0.49 J	0.52 J	0.5 J	0.15 J	0.37 J	0.5 J	0.52 J	0.52 J
1,1,2-Trichloroethane	0.16 U	0.17 U	0.19 U	0.15 U	0.19 U	0.17 U	0.18 U	0.15 U	0.18 U	0.16 U	0.18 U	0.17 U	0.18 U
1,1-Dichloroethane	0.16 U	0.18	1.8	0.15 U	0.19 U	0.17 U	0.18 U	0.15 U	1.6	0.16 U	0.18 U	0.17 U	0.18 U
1,2-Dichloroethane	0.16 U	0.17 U	0.19 U	0.15 U	0.19 U	0.17 U	0.18 U	0.15 U	0.18 U	0.16 U	0.18 U	0.17 U	0.18 U
1,2,4-Trichlorobenzene	1.6 U	1.7 U	1.9 U	1.5 U	1.9 U	1.7 U	1.8 U	1.5 U	0.23 J	1.6 U	1.8 U	1.7 U	1.8 U
1,2-Dibromo-3-chloropropane	1.6 U	1.7 U	1.9 U	1.5 U	1.9 U	1.7 U	1.8 U	1.5 U	1.8 U	1.6 U	1.8 U	1.7 U	1.8 U
1,2-Dibromoethane (Ethylene Dibromide)	0.16 U	0.17 U	0.19 U	0.15 U	0.19 U	0.17 U	0.18 U	0.15 U	0.18 U	0.16 U	0.18 U	0.17 U	0.18 U
1,2-Dichlorobenzene	0.8 U	0.81 U	0.21 J	0.75 U	0.95 U	0.83 U	0.18 J	0.74 U	0.89 U	0.79 U	0.88 U	0.83 U	0.9 U
1,2-Dichloropropane	0.16 U	0.17 U	0.19 U	0.15 U	0.19 U	0.17 U	0.18 U	0.15 U	0.18 U	0.16 U	0.18 U	0.17 U	0.18 U
1,3-Dichlorobenzene	0.79 U	0.8 U	0.9 U	0.73 U	0.93 U	0.82 U	0.86 U	0.73 U	0.87 U	0.77 U	0.86 U	0.81 U	0.89 U
1,4-Dichlorobenzene	0.79 U	0.8 U	0.2 J	0.73 U	0.93 U	0.82 U	0.18 J	0.73 U	0.87 U	0.77 U	0.86 U	0.81 U	0.89 U
2-butanone	0.83 J	1.3 J	1.8	0.93 J	19	1.4 J	1.8	1.6	1 J	0.47 J	3.5	1 J	1.6 J
2-Hexanone	0.17 J	0.26 J	1.9 U	0.2 J	5.7	0.29 J	1.8 U	0.25 J	1.8 U	1.6 U	1.8 U	0.19 J	0.26 J
4-Methyl-2-pentanone	1.6 U	1.7 U	0.55 J	0.15 J	8.6	1.7 U	0.4 J	1.5 U	0.27 J	1.6 U	0.3 J	1.7 U	0.26 J
Acetone	6.6 J	7.3 J	39	5.6 J	240	7.5 J	21	8.4	26	4.5 J	33	7 J	11
Benzene	0.55	0.68	2.1	0.85	1.1	0.75	0.67	0.77	0.55	0.16 U	1.7	3.3	0.95
Bromodichloromethane	0.16 U	0.17 U	0.8	0.15 U	0.19 U	0.17 U	0.18 U	0.15 U	1.6	0.16 U	0.18 U	0.17 U	0.18 U
Bromoform	0.8 U	0.81 U	0.91 U	0.75 U	0.95 U	0.83 U	0.87 U	0.74 U	0.89 U	0.79 U	0.88 U	0.83 U	0.9 U
Bromomethane	0.31 U	0.32 U	0.35 U	0.29 U	0.15 J	0.32 U	0.34 U	0.29 U	0.34 U	0.31 U	0.34 U	0.32 U	0.35 U
Carbon disulfide	1.6 U	1.6 U	1 J	1.5 U	1.1 J	1.6 U	0.46 J	0.55 J	0.33 J	1.6 U	1.2 J	0.42 J	1.8 U
Chlorobenzene	0.79 U	0.8 U	0.22 J	0.73 U	0.17 J	0.82 U	0.12 J	0.73 U	0.87 U	0.77 U	0.86 U	0.81 U	0.89 U
Chloroethane	0.31 U	0.32 U	0.35 U	0.29 U	0.37 U	0.32 U	0.34 U	0.29 U	0.34 U	0.31 U	0.34 U	0.32 U	0.35 U
Chloroform	0.35	0.22	7.5	0.18	0.91	0.23	0.26	0.23	33	0.18	0.26	0.23	0.26
Chloromethane	0.27 J	0.33	0.35 U	0.36	0.72	0.34	0.34 U	0.38	0.34 U	0.23 J	0.19 J	0.24 J	0.35 U
cis-1,3-Dichloropropene	0.8 U	0.81 U	0.91 U	0.75 U	0.95 U	0.83 U	0.87 U	0.74 U	0.89 U	0.79 U	0.88 U	0.83 U	0.9 U
Cyclohexane	1.6 U	1.6 U	1.2 J	1.4 U	0.91 J	1.6 U	0.34 J	1.4 U	1 J	1.5 U	0.5 J	3.2	1.8 U
Dibromochloromethane	0.16 U	0.17 U	0.19 U	0.15 U	0.19 U	0.17 U	0.18 U	0.15 U	0.18 U	0.16 U	0.18 U	0.17 U	0.18 U
Dichlorodifluoromethane	2.9	2.4	2.7	2.4	2.5	2.4	2.7	2.3	0.81 J	2.8	2.4	2.7	2.6
ethylbenzene	0.15 J	0.14 J	4.3	0.23 J	27	0.16 J	0.81 J	0.18 J	0.37 J	0.77 U	1.9	0.81 U	0.54 J
isopropylbenzene	0.8 U	0.81 U	1.1	0.75 U	0.76 J	0.83 U	0.15 J	0.74 U	0.89 U	0.79 U	0.23 J	0.83 U	0.9 U
m,p-Xylene	0.34 J	0.42 J	18	0.74 J	85	0.46 J	3.4	0.52 J	1.5 J	1.6 U	8	0.32 J	2
Methyl acetate	0.63 J,X	0.75 U,X	0.85 U,X	0.38 J,X	0.88 U,X	0.77 U,X	0.81 U,X	0.34 J,X	0.82 U,X	0.73 U,X	0.82 U,X	0.77 U,X	0.84 U,X
Methylcyclohexane	0.75 U,X	0.75 U,X	7.3 X	0.69 U,X	3.3 X	0.77 U,X	1.4 X	0.69 U,X	2.8 X	0.73 U,X	1.4 X	0.94 X	0.84 U,X
o-xylene	0.14 J	0.17 J	9.5	0.33 J	24	0.19 J	1.5	0.2 J	0.64 J	0.77 U	3.1	0.12 J	0.84 J
Styrene	0.79 U	0.8 U	0.85 J	0.73 U	0.68 J	0.82 U	0.63 J	0.73 U	0.19 J	0.77 U	0.61 J	0.81 U	0.46 J
Tert-Butyl Methyl Ether	0.8 U	0.81 U	0.24 J	0.75 U	0.95 U	0.83 U	0.87 U	0.74 U	0.89 U	0.79 U	0.88 U	0.83 U	0.9 U
Toluene	0.88	0.94	13	1.2	9.7	1.2	6.1	1.1	2.5	0.77 U	6.3	1.1	2.6
trans-1,3-Dichloropropene	0.76 U	0.77 U	0.86 U	0.7 U	0.9 U	0.79 U	0.83 U	0.7 U	0.84 U	0.74 U	0.83 U	0.78 U	0.85 U
trans-1,2-Dichloroethene	0.16 U	0.17 U	0.19 U	0.15 U	0.19 U	0.17 U	0.18 U	0.15 U	0.16 J	0.16 U	0.18 U	0.17 U	0.18 U
Trichlorofluoromethane	1.4	1.1	1.2	1.6	1.3	1.2	1.2	1.2	0.35 J	1.3	1.2	1.4	1.2

Table 2

Indoor Air and Sub-Slab Soil Vapor Sample Results
(March 15-16, 2023)
Former Emerson Power Transmission
Ithaca, New York (a)

Building Number:	Building 5		Building 6A				Building 8		Building 9		Building 10		
Building Level:	Basement/Lower		Main		Basement/Lower		Main		Main		Main		
Sample Type:	IA	SS	IA	SS	IA	SS	IA	SS	IA	SS	IA	SS	SS
Sub Location:	--	--	1	2	1	2	--	--	--	--	--	--	(b)
Sample Name:	IA-BLDG5	SS-BLDG5	IA-BLDG6A-1	SS-BLDG6A-1	IA-BLDG6A-2	SS-BLDG6A-2	IA-BLDG8	SS-BLDG8	IA-BLDG9	SS-BLDG9	IA-BLDG10	SS-BLDG10	SS-031523A
VOCs (µg/m³)													
1,1,1-Trichloroethane	0.1 J	300 D	0.16 U	34	0.15 U	5.5	0.16 U	66	0.12 J	1.2	0.14 J	59	61
1,1-Dichloroethane	0.16 U	0.17 U	0.16 U	0.38 U	0.15 U	0.22	0.16 U	0.18 U	0.16 U	0.19 U	0.16 U	0.19 U	0.18 U
Carbon tetrachloride	0.47	2.2	0.45	4.1	0.48	0.58	0.47	4	0.48	0.54	0.46	0.65	0.57
cis-1,2-Dichloroethane	0.16 U	0.17 U	0.16 U	0.38 U	0.15 U	0.18 U	0.16 U	0.15 J	0.16 U	0.96	0.17	0.9	0.93
Methylene chloride	0.39 J	6.4	2.3	6.4	0.41 J	5.2	0.39 J	5.6	0.38 J	6.1	0.66 J	2.4	2.5
Tetrachloroethene	0.32	21	0.18	12	0.31	53	0.13 J	66	0.27	36	0.26	46	48
Trichloroethene	0.76	9.9	0.88	65	0.69	2.5	0.16 U	200 D	0.66	1000 D	0.84	190 D	200 D
Vinyl chloride	0.16 U	0.22	0.16 U	0.38 U	0.15 U	0.15 J	0.16 U	0.17 J	0.16 U	0.19 U	0.16 U	0.1 J	0.18 U
1,1,2,2-Tetrachloroethane	0.16 U	0.17 U	0.16 U	0.38 U	0.15 U	0.18 U	0.16 U	0.18 U	0.16 U	0.19 U	0.16 U	0.19 U	0.18 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.52 J	0.49 J	0.5 J	0.53 J	0.52 J	0.5 J	0.53 J	0.64 J	0.53 J	0.49 J	0.49 J	0.54 J	0.56 J
1,1,2-Trichloroethane	0.16 U	0.17 U	0.16 U	0.38 U	0.15 U	0.18 U	0.16 U	0.18 U	0.16 U	0.19 U	0.16 U	0.19 U	0.18 U
1,1-Dichloroethane	0.16 U	22	0.16 U	0.79	0.15 U	0.18 U	0.16 U	0.63	0.16 U	0.19 U	0.16 U	2.5	2.6
1,2-Dichloroethane	0.16 U	0.17 U	0.16 U	0.38 U	0.087 J	0.18 U	0.16 U	0.18 U	0.16 U	0.19 U	0.16 U	0.19 U	0.18 U
1,2,4-Trichlorobenzene	1.6 U	1.7 U	1.6 U	3.8 U	1.5 U	1.8 U	1.6 U	1.8 U	1.6 U	1.9 U	1.6 U	1.9 U	1.8 U
1,2-Dibromo-3-chloropropane	1.6 U	1.7 U	1.6 U	3.8 U	1.5 U	1.8 U	1.6 U	1.8 U	1.6 U	1.9 U	1.6 U	1.9 U	1.8 U
1,2-Dibromoethane (Ethylene Dibromide)	0.16 U	0.17 U	0.16 U	0.38 U	0.15 U	0.18 U	0.16 U	0.18 U	0.16 U	0.19 U	0.16 U	0.19 U	0.18 U
1,2-Dichlorobenzene	0.77 U	0.2 J	0.76 U	1.9 U	0.73 U	0.19 J	0.78 U	0.91 U	0.8 U	0.93 U	0.79 U	0.95 U	0.89 U
1,2-Dichloropropane	0.16 U	0.17 U	0.16 U	0.38 U	0.15 U	0.18 U	0.16 U	0.18 U	0.16 U	0.19 U	0.16 U	0.19 U	0.18 U
1,3-Dichlorobenzene	0.76 U	0.83 U	0.75 U	1.8 U	0.72 U	0.88 U	0.76 U	0.89 U	0.79 U	0.92 U	0.77 U	0.93 U	0.87 U
1,4-Dichlorobenzene	0.76 U	0.2 J	0.75 U	1.8 U	0.72 U	0.17 J	0.76 U	0.89 U	0.79 U	0.92 U	0.77 U	0.93 U	0.87 U
2-butanone	0.86 J	4.5	0.64 J	1.6 J	0.58 J	5.2	0.67 J	7	1.1 J	32	1 J	3.4	3.5
2-Hexanone	0.1 J	1.7 U	1.6 U	0.36 J	1.5 U	1.8 U	1.6 U	0.79 J	0.2 J	11	0.21 J	0.6 J	0.57 J
4-Methyl-2-pentanone	1.6 U	0.81 J	1.6 U	0.95 J	1.5 U	1.2 J	1.6 U	0.67 J	1.6 U	7.2	0.13 J	1.2 J	1.2 J
Acetone	5.2 J	44	4.9 J	44	3.3 J	56	3.2 J	73	4.9 J	300	6 J	82	84
Benzene	0.92	5	0.54	1.1	0.9	1	0.59	0.82	0.73	1.2	0.74	0.29	0.3
Bromodichloromethane	0.16 U	0.83	0.16 U	1.8	0.15 U	0.18 U	0.16 U	0.18 U	0.16 U	3.3	0.16 U	1.7	1.7
Bromoform	0.77 U	0.84 U	0.76 U	1.9 U	0.73 U	0.9 U	0.78 U	0.91 U	0.8 U	0.93 U	0.79 U	0.95 U	0.89 U
Bromomethane	0.3 U	0.33 U	0.3 U	0.73 U	0.29 U	0.35 U	0.3 U	0.35 U	0.31 U	0.36 U	0.31 U	0.37 U	0.35 U
Carbon disulfide	1.5 U	1.8	1.5 U	1.7 J	1.5 U	11	1.5 U	0.54 J	1.6 U	3	1.6 U	0.3 J+	2.4 J+
Chlorobenzene	0.76 U	0.17 J	0.75 U	1.8 U	0.72 U	0.14 J	0.76 U	0.89 U	0.79 U	0.92 U	0.77 U	0.93 U	0.87 U
Chloroethane	0.3 U	0.33 U	0.3 U	0.73 U	0.29 U	0.35 U	0.3 U	0.35 U	0.31 U	0.28 J	0.31 U	0.37 U	0.35 U
Chloroform	0.25	9.1	0.16 U	58	0.23	0.21	0.1 J	9.5	0.15 J	22	0.17	24	26
Chloromethane	0.26 J	0.33 U	0.23 J	0.73 U	0.23 J	0.35 U	0.32	0.35 U	0.28 J	0.36 U	0.31	0.37 U	0.35 U
cis-1,3-Dichloropropene	0.77 U	0.84 U	0.76 U	1.9 U	0.73 U	0.9 U	0.78 U	0.91 U	0.8 U	0.93 U	0.79 U	0.95 U	0.89 U
Cyclohexane	1.5 U	2.2	1.5 U	3.7 U	1.4 U	0.87 J	1.5 U	0.75 J	1.6 U	0.52 J	1.5 U	0.56 J	0.6 J
Dibromochloromethane	0.16 U	0.17 U	0.16 U	0.38 U	0.15 U	0.18 U	0.16 U	0.18 U	0.16 U	0.24	0.16 U	0.19 U	0.18 U
Dichlorodifluoromethane	2.8	2.6	2.7	2.5	2.7	2.4	2.8	2.5	2.8	2.6	2.8	2.4	2.4
ethylbenzene	0.76 U	1.7	0.75 U	8.7	0.72 U	1.1	0.76 U	1	0.2 J	0.98	0.2 J	0.98	0.98
isopropylbenzene	0.77 U	0.19 J	0.76 U	1.9 U	0.73 U	0.24 J	0.78 U	0.21 J	0.8 U	0.18 J	0.79 U	0.13 J	0.13 J
m,p-Xylene	0.27 J	7.3	0.22 J	25	0.26 J	4.3	0.23 J	4.3	0.6 J	3.6	0.65 J	3.5	3.5
Methyl acetate	0.72 U,X	0.78 U,X	0.71 U,X	1.7 U,X	0.68 U,X	0.83 U,X	0.72 U,X	0.84 U,X	0.36 J,X	0.87 U,X	0.49 J,X	0.88 U,X	0.83 U,X
Methylcyclohexane	0.72 U,X	9.6 X	0.71 U,X	1.7 U,X	0.68 U,X	2.8 X	0.72 U,X	1.6 X	0.75 U,X	0.87 U,X	0.73 U,X	1.2 X	1.2 X
o-xylene	0.76 U	2.6	0.75 U	7.5	0.11 J	1.9	0.76 U	1.8	0.23 J	1.6	0.27 J	1.2	1.2
Styrene	0.76 U	0.71 J	0.75 U	0.57 J	0.72 U	0.66 J	0.76 U	0.74 J	0.79 U	0.71 J	0.77 U	0.43 J	0.4 J
Tert-Butyl Methyl Ether	0.77 U	0.84 U	0.76 U	1.9 U	0.73 U	0.9 U	0.78 U	0.13 J	0.8 U	0.93 U	0.79 U	0.95 U	0.89 U
Toluene	0.62 J	16	0.71 J	5.8	0.67 J	5.7	0.52 J	9.3	0.99	6.9	1	4	4.3
trans-1,3-Dichloropropene	0.73 U	0.8 U	0.72 U	1.8 U	0.69 U	0.85 U	0.73 U	0.86 U	0.76 U	0.88 U	0.74 U	0.89 U	0.84 U
trans-1,2-Dichloroethene	0.16 U	0.17 U	0.16 U	0.38 U	0.15 U	0.18 U	0.16 U	0.18 U	0.16 U	0.19 U	0.16 U	0.19 U	0.18 U
Trichlorofluoromethane	1.3	1.1	1.3	1.1 J	1.3	1.1	1.4	1.1	1.4	1.1	1.4	1.1	1.1

Table 2

Indoor Air and Sub-Slab Soil Vapor Sample Results
(March 15-16, 2023)
Former Emerson Power Transmission
Ithaca, New York (a)

Building Number:	Building 11A			Building 13A		Building 13B		Building 18	
Building Level:	Main			Upper		Upper		Basement	
Sample Type:	IA	IA	SS	IA	SS	IA	SS	IA	SS
Sub Location:	--	--	--	--	--	--	--	--	--
Sample Name:	IA-BLDG11A	IA-031523A	SS-BLDG11A	IA-BLDG13A	SS-BLDG13A	IA-BLDG13B	SS-BLDG13B	IA-BLDG18	SS-BLDG18
VOCs (ug/m³)									
1,1,1-Trichloroethane	0.35 J+	0.2 J+	93	0.14 J	3.8	0.25 U	25	0.33	36
1,1-Dichloroethane	0.15 U	0.13 U	0.18 U	0.16 U	0.17 U	0.25 U	0.19 U	0.14 U	0.59 U
Carbon tetrachloride	0.48	0.47	0.15 J	0.46	0.3	0.47	0.64	0.46	0.59 U
cis-1,2-Dichloroethane	0.29 J+	0.11 J+	0.18 U	0.16 U	15	0.25 U	0.19 U	1	50
Methylene chloride	0.41 J	0.37 J	3.3	0.4 J	5.7	0.4 J	1.9	0.36 J	6.7
Tetrachloroethene	0.29	0.25	260 D	0.22	390 D	0.23 J	320 D	0.31	460
Trichloroethene	1.1	0.9	12	0.54	33	0.42	1.8	2.8	230
Vinyl chloride	0.15 U	0.13 U	0.47	0.16 U	0.36	0.25 U	0.31	0.44	2.4
1,1,2,2-Tetrachloroethane	0.15 U	0.13 U	0.18 U	0.16 U	0.17 U	0.25 U	0.19 U	0.14 U	0.59 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.5 J	0.51 J	0.51 J	0.52 J	0.46 J	0.48 J	0.47 J	0.53 J	0.46 J
1,1,2-Trichloroethane	0.15 U	0.13 U	0.18 U	0.16 U	0.17 U	0.25 U	0.19 U	0.14 U	0.59 U
1,1-Dichloroethane	0.15 U	0.13 U	0.18 U	0.16 U	0.17 U	0.25 U	0.19 U	0.21	54
1,2-Dichloroethane	0.15 U	0.093 J	0.18 U	0.16 U	0.17 U	0.25 U	0.19 U	0.14 U	0.59 U
1,2,4-Trichlorobenzene	1.5 U	1.3 U	1.8 U	1.6 U	1.7 U	2.5 U	1.9 U	1.4 U	5.9 U
1,2-Dibromo-3-chloropropane	1.5 U	1.3 U	1.8 U	1.6 U	1.7 U	2.5 U	1.9 U	1.4 U	5.9 U
1,2-Dibromoethane (Ethylene Dibromide)	0.15 U	0.13 U	0.18 U	0.16 U	0.17 U	0.25 U	0.19 U	0.14 U	0.59 U
1,2-Dichlorobenzene	0.75 U	0.65 U	0.87 U	0.78 U	0.14 J	1.2 U	0.93 U	0.7 U	2.9 U
1,2-Dichloropropane	0.15 U	0.13 U	0.18 U	0.16 U	0.17 U	0.25 U	0.19 U	0.14 U	0.59 U
1,3-Dichlorobenzene	0.73 U	0.64 U	0.86 U	0.77 U	0.83 U	1.2 U	0.91 U	0.69 U	2.9 U
1,4-Dichlorobenzene	0.73 U	0.64 U	0.86 U	0.77 U	0.14 J	1.2 U	0.91 U	0.69 U	2.9 U
2-butanone	1 J	1.2 J	9.3	0.89 J	9.2	0.9 J	10	0.87 J	15
2-Hexanone	0.23 J+	0.39 J+	1.8 U	0.26 J	1.7 U	0.24 J	1.9 U	0.17 J	5.9 U
4-Methyl-2-pentanone	0.19 J	0.17 J	1.3 J	1.6 U	2.5	2.5 U	1.3 J	1.4 U	1.2 J
Acetone	5.7 J	7	120	5.2 J	100	5.9 J	240	4.2 J	260
Benzene	1	1.5	3	0.69	7.5	1.1	8.6	0.45	25
Bromodichloromethane	0.15 U	0.13 U	0.18 U	0.16 U	2.3	0.25 U	0.19 U	0.32	0.59 U
Bromoform	0.75 U	0.65 U	0.87 U	0.78 U	0.85 U	1.2 U	0.93 U	0.7 U	2.9 U
Bromomethane	0.29 U	0.25 U	0.34 U	0.3 U	0.33 U	0.48 U	0.36 U	0.27 U	1.1 U
Carbon disulfide	1.5 U	1.3 U	3.5	1.6 U	3	2.4 U	2.6	0.21 J	14
Chlorobenzene	0.73 U	0.64 U	0.86 U	0.77 U	0.83 U	1.2 U	0.17 J	0.69 U	2.9 U
Chloroethane	0.29 U	0.25 U	0.34 U	0.3 U	0.33 U	0.48 U	0.36 U	0.27 U	1.1 U
Chloroform	0.24	0.2	5.8	0.16	750 D	0.25 U	0.23	1.6	13
Chloromethane	0.29	0.26 V	0.34 U	0.32	0.33 U	0.33 J	0.36 U	0.18 J	1.1 U
cis-1,3-Dichloropropene	0.75 U	0.65 U	0.87 U	0.78 U	0.85 U	1.2 U	0.93 U	0.7 U	2.9 U
Cyclohexane	1.4 U	1.3 U	3.1	1.5 U	12	2.4 U	1.4 J	1.4 U	410
Dibromochloromethane	0.15 U	0.13 U	0.18 U	0.16 U	0.14 J	0.25 U	0.19 U	0.14 U	0.59 U
Dichlorodifluoromethane	2.9	2.9	2.2	2.8	3.1	2.8	2.8	2.8	2.7 J
ethylbenzene	0.3 J	0.37 J	1	0.18 J	1.5	0.21 J	1.2	0.69 U	1.6 J
isopropylbenzene	0.75 U	0.65 U	0.19 J	0.78 U	0.37 J	1.2 U	0.13 J	0.7 U	2.9 U
m,p-Xylene	0.99 J	1.1 J	6.1	0.54 J	8	0.61 J	5.4	0.26 J	4.9 J
Methyl acetate	0.35 J,X	0.36 J,X	0.81 U,X	0.73 U,X	0.79 U,X	1.1 U,X	0.86 U,X	0.65 U,X	2.7 U,X
Methylcyclohexane	0.69 U,X	0.61 U,X	9.3 X	0.73 U,X	51 X	1.1 U,X	3.7 X	0.65 U,X	730 D,X
o-xylene	0.43 J	0.43 J	2.1	0.21 J	2.9	0.23 J	1.9	0.1 J	1.6 J
Styrene	0.73 U	0.64 U	0.46 J	0.77 U	0.64 J	1.2 U	0.55 J	0.69 U	2.9 U
Tert-Butyl Methyl Ether	0.75 U	0.65 U	0.87 U	0.78 U	0.85 U	1.2 U	0.93 U	0.7 U	2.9 U
Toluene	1.6	2.1	17	0.86	21	1 J	30	0.56 J	28
trans-1,3-Dichloropropene	0.7 U	0.62 U	0.83 U	0.74 U	0.8 U	1.2 U	0.88 U	0.66 U	2.8 U
trans-1,2-Dichloroethene	0.15 U	0.13 U	0.18 U	0.16 U	0.46	0.25 U	0.19 U	0.14 U	1.5
Trichlorofluoromethane	1.9	1.7	4	1.7	1.5	1.9	1.9	1.4	1.1 J

Table 2

Indoor Air and Sub-Slab Soil Vapor Sample Results
(March 15-16, 2023)
Former Emerson Power Transmission
Ithaca, New York (a)

Building Number:	Building 21				Building 24				Building 33				
Building Level:	Basement				1st Floor		Basement		Main		Basement/Lower		
Sample Type:	IA	SS	IA	SS	IA	SS	IA	IA	SS	IA	SS	IA	SS
Sub Location:	1	1	2	2	1	1	2	(b)	2	1	1	2	2
Sample Name:	IA-BLDG21-1	SS-BLDG21-1	IA-BLDG21-2	SS-BLDG21-2	IA-BLDG24-1	SS-BLDG24-1	IA-BLDG24-2	IA-031523BR	SS-BLDG24-2	IA-BLDG33-1	SS-BLDG33-1	IA-BLDG33-2	SS-BLDG33-2
VOCs (ug/m ³)													
1,1,1-Trichloroethane	0.23 U	0.15 J	0.16 U	0.13 J	0.13 J	2.1	0.15 U	0.14 U	0.13 U	0.15 U	2.7	0.16 U	2.6
1,1-Dichloroethene	0.23 U	0.18 U	0.16 U	0.18 U	0.14 U	0.16 U	0.15 U	0.14 U	0.13 U	0.15 U	0.19 U	0.16 U	0.18 U
Carbon tetrachloride	0.47	0.45	0.47	0.4	0.47	16	0.48	0.47	0.44	0.43	0.47	0.48	0.33
cis-1,2-Dichloroethene	0.74	0.75	0.78	0.55	0.22	0.77	0.15 U	0.14 U	0.13 U	0.15 U	0.19 U	0.16 U	0.18 U
Methylene chloride	0.4 J	4	0.37 J	5.2	0.4 J	2.1	0.49 J	0.43 J	1.4	4.4	5.1	0.39 J	3.7
Tetrachloroethene	0.21 J	1.6	0.21	6.1	0.097 J	2.5	0.15 U	0.097 J	0.63	0.12 J	20	0.23	25
Trichloroethene	1.1	3.2	1.2	6.5	1.1	79	0.22	0.21	1.1	1.6	1.7	0.7	3.7
Vinyl chloride	0.23 U	0.18 U	0.16 U	0.18 U	0.14 U	0.25	0.15 U	0.14 U	0.13 U	0.15 U	0.19 U	0.16 U	0.18 U
1,1,2,2-Tetrachloroethane	0.23 U	0.18 U	0.16 U	0.18 U	0.14 U	0.16 U	0.15 U	0.14 U	0.13 U	0.15 U	0.19 U	0.16 U	0.18 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.49 J	0.47 J	0.5 J	0.5 J	0.51 J	0.49 J	0.51 J	0.53 J	0.53 J	0.52 J	0.51 J	0.52 J	0.51 J
1,1,2-Trichloroethane	0.23 U	0.18 U	0.16 U	0.18 U	0.14 U	0.16 U	0.15 U	0.14 U	0.13 U	0.15 U	0.19 U	0.16 U	0.18 U
1,1-Dichloroethane	0.23 U	0.18 U	0.16 U	0.18 U	0.14 U	0.34	0.15 U	0.14 U	0.13 U	0.15 U	0.19 U	0.16 U	0.18 U
1,2-Dichloroethane	0.23 U	0.18 U	0.16 U	0.18 U	0.081 J	0.16 U	0.15 U	0.088 J	0.13 U	0.085 J	0.19 U	0.083 J	0.18 U
1,2,4-Trichlorobenzene	2.3 U	1.8 U	1.6 U	1.8 U	1.4 U	1.6 U	1.5 U	1.4 U	1.3 U	1.5 U	1.9 U	1.6 U	1.8 U
1,2-Dibromo-3-chloropropane	2.3 U	1.8 U	1.6 U	1.8 U	1.4 U	1.6 U	1.5 U	1.4 U	1.3 U	1.5 U	1.9 U	1.6 U	1.8 U
1,2-Dibromoethane (Ethylene Dibromide)	0.23 U	0.18 U	0.16 U	0.18 U	0.14 U	0.16 U	0.15 U	0.14 U	0.13 U	0.15 U	0.19 U	0.16 U	0.18 U
1,2-Dichlorobenzene	1.1 U	0.9 U	0.8 U	0.87 U	0.69 U	0.8 U	0.75 U	0.67 U	0.65 U	0.72 U	0.91 U	0.76 U	0.85 U
1,2-Dichloropropane	0.23 U	0.18 U	0.16 U	0.18 U	0.14 U	0.16 U	0.15 U	0.14 U	0.13 U	0.15 U	0.19 U	0.16 U	0.18 U
1,3-Dichlorobenzene	1.1 U	0.89 U	0.79 U	0.86 U	0.68 U	0.79 U	0.73 U	0.66 U	0.64 U	0.7 U	0.9 U	0.75 U	0.85 U
1,4-Dichlorobenzene	1.1 U	0.89 U	0.79 U	0.86 U	0.68 U	0.79 U	0.73 U	0.66 U	0.64 U	0.7 U	0.9 U	0.75 U	0.85 U
2-butanone	0.66 J	1.6 J	0.6 J	1.4 J	0.67 J	2.4	0.68 J	0.6 J	0.55 J	1.2 J	2.2	0.6 J	1.7
2-Hexanone	2.3 U	1.8 U	0.19 J	1.8 U	0.11 J	1.6 U	0.15 J	1.4 U	1.3 U	0.15 J	0.27 J	1.6 U	0.4 J
4-Methyl-2-pentanone	2.3 U	0.36 J	1.6 U	0.31 J	1.4 U	0.28 J	1.5 U	1.4 U	1.3 U	1.5 U	0.39 J	1.6 U	1.3 J
Acetone	4.4 J	33	3.3 J	9.1	3.5 J	42	3.7 J	3.3 J	4.7 J	6.8 J	18	3.3 J	36
Benzene	0.49	0.56	0.45	0.33	0.57	2.7	0.54	0.51	0.42	1.6	0.69	0.99	0.34
Bromodichloromethane	0.17 J	0.19	0.16 J	0.18 U	0.14 U	0.16 U	0.15 U	0.14 U	0.13 U	0.15 U	0.19 U	0.16 U	0.18 U
Bromoform	1.1 U	0.9 U	0.8 U	0.87 U	0.69 U	0.8 U	0.75 U	0.67 U	0.65 U	0.72 U	0.91 U	0.76 U	0.87 U
Bromomethane	0.44 U	0.35 U	0.31 U	0.34 U	0.27 U	0.31 U	0.29 U	0.26 U	0.25 U	0.28 U	0.35 U	0.3 U	0.34 U
Carbon disulfide	2.2 U	1.8 U	1.3 J	0.34 J	1.4 U	1.2 J	1.5 U	1.3 U	0.6 J	1.4 U	0.31 J	1.5 U	1.7 U
Chlorobenzene	1.1 U	0.89 U	0.79 U	0.86 U	0.68 U	0.79 U	0.73 U	0.66 U	0.64 U	0.7 U	0.9 U	0.75 U	0.85 U
Chloroethane	0.44 U	0.35 U	0.31 U	0.34 U	0.27 U	0.31 U	0.29 U	0.26 U	0.25 U	0.28 U	0.35 U	0.3 U	0.34 U
Chloroform	1.2	2.2	1.1	2.4	0.13 J	2.6	0.098 J	0.091 J	0.17	0.11 J	0.3	0.24	0.72
Chloromethane	0.27 J	0.35 U	0.25 J	0.34 U	0.31	0.31 U	0.34	0.29 V	0.32	0.29	0.35 U	0.33	0.34 U
cis-1,3-Dichloropropene	1.1 U	0.9 U	0.8 U	0.87 U	0.69 U	0.8 U	0.75 U	0.67 U	0.65 U	0.72 U	0.91 U	0.76 U	0.87 U
Cyclohexane	2.2 U	1.7 J	1.6 U	0.3 J	1.3 U	5.1	1.4 U	1.3 U	0.26 J	0.94 J	1.2 J	1.5 U	1.7 U
Dibromochloromethane	0.23 U	0.18 U	0.16 U	0.18 U	0.14 U	0.16 U	0.15 U	0.14 U	0.13 U	0.15 U	0.19 U	0.16 U	0.18 U
Dichlorodifluoromethane	2.9	2.6	2.9	2.6	2.9	2.4	2.9	2.9	2.5	2.9	2.8	2.9	2.6
ethylbenzene	1.1 U	2.7	0.79 U	2.1	0.68 U	0.46 J	0.73 U	0.097 J	0.15 J	0.25 J	0.72 J	0.75 U	1.1
isopropylbenzene	1.1 U	0.9 U	0.8 U	0.87 U	0.69 U	0.8 U	0.75 U	0.67 U	0.65 U	0.72 U	0.91 U	0.76 U	0.87 U
m,p-Xylene	2.3 U	7.7	0.24 J	5.7	0.25 J	2	0.27 J	0.27 J	0.51 J	0.8 J	2.5	0.26 J	3.9
Methyl acetate	1.1 U,X	0.84 U,X	0.75 U,X	0.81 U,X	0.64 U,X	0.75 U,X	0.69 U,X	0.62 U,X	0.61 U,X	0.32 J,X	0.85 U,X	0.71 U,X	0.81 U,X
Methylcyclohexane	1.1 U,X	3.2 X	0.75 U,X	0.74 J,X	0.64 U,X	20 X	0.69 U,X	0.62 U,X	1.8 X	0.67 U,X	0.85 U,X	0.71 U,X	0.81 U,X
o-xylene	1.1 U	2.1	0.79 U	1.6	0.1 J	0.75 J	0.11 J	0.11 J	0.23 J	0.29 J	1.1	0.75 U	1.5
Styrene	1.1 U	0.42 J	0.79 U	0.48 J	0.68 U	0.27 J	0.73 U	0.66 U	0.64 U	0.15 J	0.57 J	0.75 U	0.51 J
Tert-Butyl Methyl Ether	1.1 U	0.9 U	0.8 U	0.87 U	0.69 U	0.8 U	0.75 U	0.67 U	0.65 U	0.72 U	0.91 U	0.76 U	0.87 U
Toluene	0.68 J	16	0.6 J	220 D	0.96	15	0.63 J	0.6 J	1.2	6.1	5.2	0.61 J	3.2
trans-1,3-Dichloropropene	1.1 U	0.85 U	0.76 U	0.83 U	0.65 U	0.76 U	0.7 U	0.63 U	0.62 U	0.68 U	0.86 U	0.72 U	0.82 U
trans-1,2-Dichloroethene	0.23 U	0.18 U	0.16 U	0.18 U	0.14 U	0.16 U	0.15 U	0.14 U	0.13 U	0.15 U	0.19 U	0.16 U	0.18 U
Trichlorofluoromethane	1.4	1.2	1.4	1.2	1.4	1.1	1.4	1.4	1.2	1.4	1.2	1.4	1.1

Table 2

Indoor Air and Sub-Slab Soil Vapor Sample Results
(March 15-16, 2023)
Former Emerson Power Transmission
Ithaca, New York (a)

Building Number:	Building 34									A	B
Building Level:	Main					Basement/Lower					
Sample Type:	IA	SS	IA	SS	SS	IA	SS	IA	SS	OA	OA
Sub Location:	1	1	2	2	(b)	3	3	4	4	--	--
Sample Name:	IA-BLDG34-1	SS-BLDG34-1	IA-BLDG34-2	SS-BLDG34-2	SS-031523B	IA-BLDG34-3	SS-BLDG34-3	IA-BLDG34-4	SS-BLDG34-4	OA-031523A	OA-031523B
VOCs (ug/m ³)											
1,1,1-Trichloroethane	0.17 U	1.8	0.17 U	5.5	6	0.17 U	12	0.14 U	5.5	0.14 U	0.14 U
1,1-Dichloroethene	0.17 U	0.17 U	0.17 U	0.19 U	0.19 U	0.17 U	0.18 U	0.14 U	0.21 U	0.14 U	0.14 U
Carbon tetrachloride	0.45	0.49	0.45	0.29	0.28	0.44	0.37	0.46	0.32	0.47	0.46
cis-1,2-Dichloroethene	0.17 U	0.17 U	0.17 U	0.19 U	0.19 U	0.17 U	3.7	0.14 U	0.21 U	0.14 U	0.14 U
Methylene chloride	0.42 J	9.2	0.4 J	3.4	3.5	0.4 J	7.8	0.79	4.9	0.38 J	0.39 J
Tetrachloroethene	0.17 U	6	0.12 J	33	34	0.29	47	0.21	120	0.14 U	0.12 J
Trichloroethene	0.17 U	2.2	0.17 U	64	67	1.9	350 D	0.59	46	0.14 U	0.14 U
Vinyl chloride	0.17 U	0.17 U	0.17 U	0.19 U	0.19 U	0.17 U	0.095 J	0.14 U	0.21	0.14 U	0.14 U
1,1,2,2-Tetrachloroethane	0.17 U	0.17 U	0.17 U	0.19 U	0.19 U	0.17 U	0.18 U	0.14 U	0.21 U	0.14 U	0.14 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.52 J	0.49 J	0.49 J	0.5 J	0.47 J	0.51 J	0.49 J	0.52 J	0.52 J	0.52 J	0.51 J
1,1,2-Trichloroethane	0.17 U	0.17 U	0.17 U	0.19 U	0.19 U	0.17 U	0.18 U	0.14 U	0.21 U	0.14 U	0.14 U
1,1-Dichloroethane	0.17 U	0.17 U	0.17 U	0.19 U	0.9	0.17 U	2.2	0.14 U	0.71	0.14 U	0.14 U
1,2-Dichloroethane	0.17 U	0.17 U	0.17 U	0.19 U	0.19 U	0.17 U	0.18 U	0.077 J	0.21 U	0.077 J	0.089 J
1,2,4-Trichlorobenzene	1.7 U	1.7 U	1.7 U	1.9 U	1.9 U	1.7 U	1.8 U	1.4 U	2.1 U	1.4 U	1.4 U
1,2-Dibromo-3-chloropropane	1.7 U	1.7 U	1.7 U	1.9 U	1.9 U	1.7 U	1.8 U	1.4 U	2.1 U	1.4 U	1.4 U
1,2-Dibromomethane (Ethylene Dibromide)	0.17 U	0.17 U	0.17 U	0.19 U	0.19 U	0.17 U	0.18 U	0.14 U	0.21 U	0.14 U	0.14 U
1,2-Dichlorobenzene	0.85 U	0.16 J	0.84 U	0.15 J	0.16 J	0.84 U	0.88 U	0.71 U	1 U	0.71 U	0.68 U
1,2-Dichloropropane	0.17 U	0.17 U	0.17 U	0.19 U	0.19 U	0.17 U	0.18 U	0.14 U	0.21 U	0.14 U	0.14 U
1,3-Dichlorobenzene	0.83 U	0.83 U	0.83 U	0.93 U	0.91 U	0.82 U	0.86 U	0.69 U	1 U	0.69 U	0.67 U
1,4-Dichlorobenzene	0.83 U	0.17 J	0.83 U	0.17 J	0.91 U	0.82 U	0.86 U	0.69 U	1 U	0.69 U	0.67 U
2-butanone	0.76 J	11	0.63 J	8.4	8.9	0.71 J	0.89 J	0.85 J	2.3	0.78 J	0.68 J
2-Hexanone	1.7 U	3.5	1.7 U	2.1	2	1.7 U	0.21 J	0.13 J	0.39 J	0.24 J	0.084 J
4-Methyl-2-pentanone	1.7 U	3.7	1.7 U	2.5	2.6	1.7 U	0.25 J	1.4 U	0.4 J	1.4 U	1.4 U
Acetone	5.1 J	430	3.3 J	240	250	4 J	9.2	4.8 J	34	4.2 J	3.8 J
Benzene	1.5	0.76	0.61	0.36	0.35	1.2	0.29	1.6	0.55	0.51	0.53
Bromodichloromethane	0.17 U	0.17 U	0.17 U	0.19 U	0.19 U	0.17 U	0.18 U	0.14 U	0.2 J	0.14 U	0.14 U
Bromoform	0.85 U	0.85 U	0.84 U	0.95 U	0.93 U	0.84 U	0.88 U	0.71 U	1 U	0.71 U	0.68 U
Bromomethane	0.33 U	0.33 U	0.33 U	0.37 U	0.13 J	0.33 U	0.34 U	0.28 U	0.41 U	0.28 U	0.26 U
Carbon disulfide	1.7 U	0.77 J	1.7 U	1.9 U	1.8 U	1.7 U	0.4 J	1.4 U	0.76 J	0.32 J	0.29 J
Chlorobenzene	0.83 U	1.3	0.83 U	0.93 U	0.91 U	0.82 U	0.99	0.69 U	1 U	0.69 U	0.67 U
Chloroethane	0.33 U	0.33 U	0.33 U	0.37 U	0.36 U	0.33 U	0.34 U	0.28 U	0.41 U	0.28 U	0.26 U
Chloroform	0.17 U	0.37	0.17 U	3.6	3.9	0.29	1.4	0.28	15	0.14 U	0.14 U
Chloromethane	0.32 J	0.33 U	0.31 J	0.37 U	0.25 J	0.35	0.34 U	0.3	0.41 U	0.29 V	0.3 V
cis-1,3-Dichloropropene	0.85 U	0.85 U	0.84 U	0.95 U	0.93 U	0.84 U	0.88 U	0.71 U	1 U	0.71 U	0.68 U
Cyclohexane	0.4 J	0.55 J	1.6 U	1.8 U	1.8 U	1.6 U	1.7 U	1.4 U	2 U	1.4 U	1.3 U
Dibromochloromethane	0.17 U	0.17 U	0.17 U	0.19 U	0.19 U	0.17 U	0.18 U	0.14 U	0.21 U	0.14 U	0.14 U
Dichlorodifluoromethane	2.8	2.3	2.7	2.2	2.3	2.9	2.4	2.8	2.4	2.9	2.8
ethylbenzene	0.15 J	2.4	0.83 U	2.6	2.6	0.82 U	0.7 J	0.15 J	0.84 J	0.1 J	0.11 J
isopropylbenzene	0.85 U	0.17 J	0.84 U	9.2	9.3	0.84 U	0.88 U	0.71 U	1 U	0.71 U	0.68 U
m,p-Xylene	0.31 J	17	0.26 J	12	12	1.7 U	2.7	0.32 J	3.1	0.24 J	0.3 J
Methyl acetate	0.54 J,X	0.79 U,X	0.78 U,X	0.88 U,X	0.86 U,X	0.78 U,X	0.82 U,X	0.66 U,X	0.97 U,X	0.66 U,X	0.63 U,X
Methylcyclohexane	0.79 U,X	2 X	0.78 U,X	0.8 J,X	0.76 J,X	0.78 U,X	0.82 U,X	0.66 U,X	0.97 U,X	0.66 U,X	0.63 U,X
o-xylene	0.13 J	4.6	0.83 U	10	10	0.82 U	1.1	0.12 J	1.4	0.69 U	0.12 J
Styrene	0.14 J	0.63 J	0.83 U	0.53 J	0.45 J	0.82 U	0.47 J	0.69 U	0.56 J	0.69 U	0.67 U
Tert-Butyl Methyl Ether	0.85 U	0.85 U	0.84 U	0.95 U	0.93 U	0.84 U	0.88 U	0.71 U	1 U	0.71 U	0.68 U
Toluene	5.6	4	0.84	2.5	2.4	0.6 J	3.3	1.1	3.3	0.66 J	0.74
trans-1,3-Dichloropropene	0.8 U	0.8 U	0.8 U	0.9 U	0.88 U	0.79 U	0.83 U	0.67 U	0.98 U	0.67 U	0.64 U
trans-1,2-Dichloroethene	0.17 U	0.17 U	0.17 U	0.19 U	0.19 U	0.17 U	0.16 J	0.14 U	0.21 U	0.14 U	0.14 U
Trichlorofluoromethane	1.4	1.1	1.4	1.1	1.1	1.4	1.1	1.3	1.1	1.4	1.4

a/ VOCs = volatile organic substances; µg/m³ = micrograms per cubic meter; IA = indoor air sample; SS = sub-slab vapor sample; OA = outdoor air sample.

Data qualifiers:

U = analyzed but not detected above the detection limit shown

J = estimated concentration that is less than the method reporting limit but greater than or equal to the method detection limit

J+ = relative percent difference between primary and field duplicate sample results exceeds acceptance criteria

D = reported result is from a dilution

V = continuing calibration verification standard was outside (biased low) the specified limits for this compound

X = analyzed for but not included on the National Environmental Laboratory Accreditation Program or Department of Defense Environmental

Laboratory Accreditation Program accreditation

b/ Field duplicate sample of preceding sample.

Table 3

**NYSDOH Decision Matrix Actions Associated with March 2023 Sub-Slab Soil Vapor and Indoor Air Results
Former Emerson Power Transmission
Ithaca, New York (a)**

Building Number:	Building 1				Building 2					
Building Level or Location:	Basement		1st Floor	NYSDOH Decision Matrix Action (b)	Basement/Lower		NYSDOH Decision Matrix Action (b)	Main		NYSDOH Decision Matrix Action (b)
Sub Location:	--	2	1		2			1		
Sample Type:	SS	IA	IA		SS	IA		SS	IA	
Sample Name: VOCs (ug/m3)	<u>SS-BLDG1</u>	<u>IA-BLDG1-2</u>	<u>IA-BLDG1-1</u>		<u>SS-BLDG2-2</u>	<u>IA-BLDG2-2</u>		<u>SS-BLDG2-1</u>	<u>IA-BLDG2-1</u>	
1,1,1-Trichloroethane	6.8	0.47	0.17	No Further Action	1.4	0.22	No Further Action	5.6	0.31	No Further Action
1,1-Dichloroethene	0.19 U	0.17 U	0.16 U	No Further Action	0.18 U	0.17 U	No Further Action	0.19 U	0.15 U	No Further Action
Carbon Tetrachloride	0.54	0.44	0.46	No Further Action	0.5	0.49	No Further Action	0.62	0.46	No Further Action
cis-1,2-Dichloroethene	1.4	0.18	0.22	No Further Action	0.18 U	0.17 U	No Further Action	0.19 U	0.25	No Further Action
Methylene chloride	5.7	0.41 J	0.4 J	No Further Action	7.1	0.35 J	No Further Action	5.3	0.36 J	No Further Action
Tetrachloroethene	2.6	0.32	0.19	No Further Action	0.78	0.44	No Further Action	11	0.24	No Further Action
Trichloroethene	29	1.3	0.67	Mitigate	1.2	1.7	Identify Sources and Resample or Mitigate	5.1	0.92	No Further Action
Vinyl chloride	0.42	0.17 U	0.16 U	No Further Action	0.28	0.17 U	No Further Action	0.16 J	0.15 U	No Further Action

Table 3

**NYSDOH Decision Matrix Actions Associated with March 2023 Sub-Slab Soil Vapor and Indoor Air Results
Former Emerson Power Transmission
Ithaca, New York (a)**

Building Number:	Building 3			Building 4 (and 4A)						Building 5		
Building Level or Location:	Basement/Lower		NYSDOH Decision Matrix Action (b)	Basement/Lower - North		NYSDOH Decision Matrix Action (b)	Basement/Lower - South		NYSDOH Decision Matrix Action (b)	Basement/Lower		NYSDOH Decision Matrix Action (b)
Sub Location:	--			1			2			--		
Sample Type:	SS	IA		SS	IA		SS	IA		SS	IA	
Sample Name: VOCs (ug/m3)	SS-BLDG3	IA-BLDG3		SS-BLDG4-1	IA-BLDG4-1		SS-BLDG4-2	IA-BLDG4-2		SS-BLDG5	IA-BLDG5	
1,1,1-Trichloroethane	1.5	0.24	No Further Action	0.3	0.11 J	No Further Action	0.37	0.29	No Further Action	300 D	0.1 J	No Further Action
1,1-Dichloroethene	0.18 U	0.15 U	No Further Action	0.18 U	0.16 U	No Further Action	0.18 U	0.17 U	No Further Action	0.17 U	0.16 U	No Further Action
Carbon Tetrachloride	0.12 J	0.47	No Further Action	0.47	0.2	No Further Action	0.51	0.45	No Further Action	2.2	0.47	No Further Action
cis-1,2-Dichloroethene	3.8	0.1 J	No Further Action	0.3	0.12 J	No Further Action	0.18 U	0.15 J	No Further Action	0.17 U	0.16 U	No Further Action
Methylene chloride	2.1	0.34 J	No Further Action	3.8	0.37 J	No Further Action	4.6	0.4 J	No Further Action	6.4	0.39 J	No Further Action
Tetrachloroethene	5.2	0.5	No Further Action	21	0.16 U	No Further Action	0.7	0.35	No Further Action	21	0.32	No Further Action
Trichloroethene	140	1.9	Mitigate	48	0.43	Monitor	0.99	0.79	No Further Action	9.9	0.76	Monitor
Vinyl chloride	0.18 U	0.15 U	No Further Action	0.18 U	0.16 U	No Further Action	0.18 U	0.17 U	No Further Action	0.22	0.16 U	No Further Action

Table 3

**NYSDOH Decision Matrix Actions Associated with March 2023 Sub-Slab Soil Vapor and Indoor Air Results
Former Emerson Power Transmission
Ithaca, New York (a)**

Building Number:	Building 6A						Building 8 (and 8A)			Building 9 (and 9A)		
Building Level or Location:	Basement/Lower		NYSDOH Decision Matrix Action (b)	Main		NYSDOH Decision Matrix Action (b)	Main		NYSDOH Decision Matrix Action (b)	Main		NYSDOH Decision Matrix Action (b)
Sub Location:	2			1			--			--		
Sample Type:	SS	IA		SS	IA		SS	IA		SS	IA	
Sample Name: VOCs (ug/m3)	SS-BLDG6A-2	IA-BLDG6A-2		SS-BLDG6A-1	IA-BLDG6A-1		SS-BLDG8	IA-BLDG8		SS-BLDG9	IA-BLDG9	
1,1,1-Trichloroethane	5.5	0.15 U	No Further Action	34	0.16 U	No Further Action	66	0.16 U	No Further Action	1.2	0.12 J	No Further Action
1,1-Dichloroethene	0.22	0.15 U	No Further Action	0.38 U	0.16 U	No Further Action	0.18 U	0.16 U	No Further Action	0.19 U	0.16 U	No Further Action
Carbon Tetrachloride	0.58	0.48	No Further Action	4.1	0.45	No Further Action	4	0.47	No Further Action	0.54	0.48	No Further Action
cis-1,2-Dichloroethene	0.18 U	0.15 U	No Further Action	0.38 U	0.16 U	No Further Action	0.15 J	0.16 U	No Further Action	0.96	0.16 U	No Further Action
Methylene chloride	5.2	0.41 J	No Further Action	6.4	2.3	No Further Action	5.6	0.39 J	No Further Action	6.1	0.38 J	No Further Action
Tetrachloroethene	53	0.31	No Further Action	12	0.18	No Further Action	66	0.13 J	No Further Action	36	0.27	No Further Action
Trichloroethene	2.5	0.69	No Further Action	65	0.88	Mitigate	200 D	0.16 U	Mitigate	1000 D	0.66	Mitigate
Vinyl chloride	0.15 J	0.15 U	No Further Action	0.38 U	0.16 U	No Further Action	0.17 J	0.16 U	No Further Action	0.19 U	0.16 U	No Further Action

Table 3

**NYSDOH Decision Matrix Actions Associated with March 2023 Sub-Slab Soil Vapor and Indoor Air Results
Former Emerson Power Transmission
Ithaca, New York (a)**

Building Number:	Building 10 (and 10A/3A)				Building 11A				Building 13A		
Building Level or Location:	Main			NYSDOH Decision Matrix Action (b)	Main			NYSDOH Decision Matrix Action (b)	Upper		NYSDOH Decision Matrix Action (b)
Sub Location:	--				--				--		
Sample Type:	SS	SS (c)	IA		SS	IA	IA (c)		SS	IA	
Sample Name: VOCs (ug/m3)	<u>SS-BLDG10</u>	<u>SS-031523A</u>	<u>IA-BLDG10</u>	No Further Action	<u>SS-BLDG11A</u>	<u>IA-BLDG11A</u>	<u>IA-031523A</u>	No Further Action	<u>SS-BLDG13A</u>	<u>IA-BLDG13A</u>	No Further Action
1,1,1-Trichloroethane	59	61	0.14 J		93	0.35 J+	0.20 J+		3.8	0.14 J	
1,1-Dichloroethene	0.19 U	0.18 U	0.16 U	No Further Action	0.18 U	0.15 U	0.13 U	No Further Action	0.17 U	0.16 U	No Further Action
Carbon Tetrachloride	0.65	0.57	0.46	No Further Action	0.15 J	0.48	0.47	No Further Action	0.3	0.46	No Further Action
cis-1,2-Dichloroethene	0.90	0.93	0.17	No Further Action	0.18 U	0.29 J+	0.11 J+	No Further Action	15	0.16 U	No Further Action
Methylene chloride	2.4	2.5	0.66 J	No Further Action	3.3	0.41 J	0.37 J	No Further Action	5.7	0.4 J	No Further Action
Tetrachloroethene	46	48	0.26	No Further Action	260 D	0.29	0.25	No Further Action	390 D	0.22	No Further Action
Trichloroethene	190 D	200 D	0.84	Mitigate	12	1.1	0.9	Mitigate	33	0.54	Monitor
Vinyl chloride	0.1 J	0.18 U	0.16 U	No Further Action	0.47	0.15 U	0.13 U	No Further Action	0.36	0.16 U	No Further Action

Table 3

**NYSDOH Decision Matrix Actions Associated with March 2023 Sub-Slab Soil Vapor and Indoor Air Results
Former Emerson Power Transmission
Ithaca, New York (a)**

Building Number:	Building 13B			Building 18			Building 21				
Building Level or Location:	Upper		NYSDOH Decision Matrix Action (b)	Basement		NYSDOH Decision Matrix Action (b)	Basement				NYSDOH Decision Matrix Action (b)
Sub Location:	--			--			1	2			
Sample Type:	SS	IA		SS	IA		SS	IA	SS	IA	
Sample Name: VOCs (ug/m3)	SS-BLDG13B	IA-BLDG13B		SS-BLDG18	IA-BLDG18		SS-BLDG21-1	IA-BLDG21-1	SS-BLDG21-2	IA-BLDG21-2	
1,1,1-Trichloroethane	25	0.25 U	No Further Action	36	0.33	No Further Action	0.15 J	0.23 U	0.13 J	0.16 U	No Further Action
1,1-Dichloroethene	0.19 U	0.25 U	No Further Action	0.59 U	0.14 U	No Further Action	0.18 U	0.23 U	0.18 U	0.16 U	No Further Action
Carbon Tetrachloride	0.64	0.47	No Further Action	0.59 U	0.46	No Further Action	0.45	0.47	0.4	0.47	No Further Action
cis-1,2-Dichloroethene	0.19 U	0.25 U	No Further Action	50	1	Mitigate	0.75	0.74	0.55	0.78	No Further Action
Methylene chloride	1.9	0.4 J	No Further Action	6.7	0.36 J	No Further Action	4	0.4 J	5.2	0.37 J	No Further Action
Tetrachloroethene	320 D	0.23 J	No Further Action	460	0.31	No Further Action	1.6	0.21 J	6.1	0.21	No Further Action
Trichloroethene	1.8	0.42	No Further Action	230	2.8	Mitigate	3.2	1.1	6.5	1.2	Mitigate
Vinyl chloride	0.31	0.25 U	No Further Action	2.4	0.44	Identify Sources and Resample or Mitigate	0.18 U	0.23 U	0.18 U	0.16 U	No Further Action

Table 3

**NYSDOH Decision Matrix Actions Associated with March 2023 Sub-Slab Soil Vapor and Indoor Air Results
Former Emerson Power Transmission
Ithaca, New York (a)**

Building Number:	Building 24							Building 33					
Building Level or Location:	Basement			NYSDOH Decision Matrix Action (b)	1st Floor		NYSDOH Decision Matrix Action (b)	Basement/Lower		NYSDOH Decision Matrix Action (b)	Main		NYSDOH Decision Matrix Action (b)
Sub Location:	2				1			2			1		
Sample Type:	SS	IA	IA (c)		SS	IA		SS	IA				
Sample Name: VOCs (ug/m3)	SS-BLDG24-2	IA-BLDG24-2	IA-031523BR		SS-BLDG24-1	IA-BLDG24-1		SS-BLDG33-2	IA-BLDG33-2		SS-BLDG33-1	IA-BLDG33-1	
1,1,1-Trichloroethane	0.13 U	0.15 U	0.14 U	No Further Action	2.1	0.13 J	No Further Action	2.6	0.16 U	No Further Action	2.7	0.15 U	No Further Action
1,1-Dichloroethene	0.13 U	0.15 U	0.14 U	No Further Action	0.16 U	0.14 U	No Further Action	0.18 U	0.16 U	No Further Action	0.19 U	0.15 U	No Further Action
Carbon Tetrachloride	0.44	0.48	0.47	No Further Action	16	0.47	Monitor	0.33	0.48	No Further Action	0.47	0.43	No Further Action
cis-1,2-Dichloroethene	0.13 U	0.15 U	0.14 U	No Further Action	0.77	0.22	No Further Action	0.18 U	0.16 U	No Further Action	0.19 U	0.15 U	No Further Action
Methylene chloride	1.4	0.49 J	0.43 J	No Further Action	2.1	0.4 J	No Further Action	3.7	0.39 J	No Further Action	5.1	4.4	No Further Action
Tetrachloroethene	0.63	0.15 U	0.097 J	No Further Action	2.5	0.097 J	No Further Action	25	0.23	No Further Action	20	0.12 J	No Further Action
Trichloroethene	1.1	0.22	0.21	No Further Action	79	1.1	Mitigate	3.7	0.7	No Further Action	1.7	1.6	Identify Sources and Resample or Mitigate
Vinyl chloride	0.13 U	0.15 U	0.14 U	No Further Action	0.25	0.14 U	No Further Action	0.18 U	0.16 U	No Further Action	0.19 U	0.15 U	No Further Action

Table 3

**NYSDOH Decision Matrix Actions Associated with March 2023 Sub-Slab Soil Vapor and Indoor Air Results
Former Emerson Power Transmission
Ithaca, New York (a)**

Building Number:	Building 34												
Building Level or Location:	Basement/Lower - North		NYSDOH Decision Matrix Action (b)	Basement/Lower - South		NYSDOH Decision Matrix Action (b)	Main - North		NYSDOH Decision Matrix Action (b)	Main - South			NYSDOH Decision Matrix Action (b)
Sub Location:	3			4			1			2			
Sample Type:	SS	IA		SS	IA		SS	IA		SS	SS (c)	IA	
Sample Name: VOCs (ug/m3)	SS-BLDG34-3	IA-BLDG34-3		SS-BLDG34-4	IA-BLDG34-4		SS-BLDG34-1	IA-BLDG34-1		SS-BLDG34-2	SS-031523B	IA-BLDG34-2	
1,1,1-Trichloroethane	12	0.17 U	No Further Action	5.5	0.14 U	No Further Action	1.8	0.17 U	No Further Action	5.5	6.0	0.17 U	No Further Action
1,1-Dichloroethene	0.18 U	0.17 U	No Further Action	0.21 U	0.14 U	No Further Action	0.17 U	0.17 U	No Further Action	0.19 U	0.19 U	0.17 U	No Further Action
Carbon Tetrachloride	0.37	0.44	No Further Action	0.32	0.46	No Further Action	0.49	0.45	No Further Action	0.29	0.28	0.45	No Further Action
cis-1,2-Dichloroethene	3.7	0.17 U	No Further Action	0.21 U	0.14 U	No Further Action	0.17 U	0.17 U	No Further Action	0.19 U	0.19 U	0.17 U	No Further Action
Methylene chloride	7.8	0.4 J	No Further Action	4.9	0.79	No Further Action	9.2	0.42 J	No Further Action	3.4	3.5	0.4 J	No Further Action
Tetrachloroethene	47	0.29	No Further Action	120	0.21	No Further Action	6	0.17 U	No Further Action	33	34	0.12 J	No Further Action
Trichloroethene	350 D	1.9	Mitigate	46	0.59	Monitor	2.2	0.17 U	No Further Action	64	67	0.17 U	Mitigate
Vinyl chloride	0.095 J	0.17 U	No Further Action	0.21	0.14 U	No Further Action	0.17 U	0.17 U	No Further Action	0.19 U	0.19 U	0.17 U	No Further Action

a/ NYSDOH = New York State Department of Health; VOCs = volatile organic substances; µg/m³ = micrograms per cubic meter; IA = indoor air sample; SS = sub-slab vapor sample.

Data qualifiers:

U = analyzed but not detected above the detection limit shown

J = estimated concentration that is less than the method reporting limit but greater than or equal to the method detection limit

J+ = relative percent difference between primary and field duplicate sample results exceeds acceptance criteria

D = reported result is from a dilution

b/ Actions specified in the NYSDOH vapor intrusion decision matrices provided in the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006 (and associated updates).

c/ Field duplicate sample of preceding sample.

Table 4

**Comparison of Recommended Actions for Previous and March 2023 Vapor Intrusion Data
Former Emerson Power Transmission
Ithaca, New York**

Building Number	Level or Location	NYSDOH Decision Matrix Action (a) (b)	
		Previous Vapor Intrusion Sampling	March 2023 Vapor Intrusion Sampling
1	Basement/Lower	Identify Sources and Sample or Mitigate	Mitigate
2	Basement/Lower	Monitor	Identify Sources and Sample or Mitigate
	Main	Mitigate	No Further Action
3	Basement/Lower	Mitigate	Mitigate
4 (and 4A)	Basement/Lower - North	Mitigate	Monitor
	Basement/Lower - South	Mitigate	No Further Action
5	Basement/Lower	Mitigate	Monitor
6A	Basement/Lower	Mitigate	No Further Action
	Main	Identify Sources and Sample or Mitigate	Mitigate
8 (and 8A)	Main	Mitigate	Mitigate
9 (and 9A)	Main	Mitigate	Mitigate
10 (and 10A/3A)	Main	Mitigate	Mitigate
11A	Main	Monitor	Mitigate
13A	Upper	Identify Sources and Sample or Mitigate	Monitor
13B	Upper	Identify Sources and Sample or Mitigate	No Further Action
18	Basement	Mitigate	Mitigate
21	Basement	Mitigate	Mitigate
24	Basement	Mitigate	No Further Action
	1st Floor	Mitigate	Mitigate
33	Basement/Lower	Mitigate	No Further Action
	Main	Monitor	Identify Sources and Sample or Mitigate
34	Basement/Lower - North	Mitigate	Mitigate
	Basement/Lower - South	Mitigate	Monitor
	Main - North	Identify Sources and Sample or Mitigate	No Further Action
	Main - South	Monitor	Mitigate

a/ Actions specified in the New York State Department of Health (NYSDOH) vapor intrusion decision matrices provided in the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated October 2006 (and associated updates).

b/ Sub-slab soil vapor and indoor air sample data from previous sampling events in 2005, 2006, and 2013, and March 2023 were compared to the most recent NYSDOH vapor intrusion decision matrices.

ENCLOSURE A – INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY FORMS (see Figure 1 of report for sampling locations within each building)

**NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH**

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Dan Cummings Date/Time Prepared 3/13/2023

Preparer's Affiliation WSP Phone No. 571-329-1255

Purpose of Investigation Vapor Intrusion Assessment (2023)

1. OCCUPANT:

Interviewed: Y / ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ☐)

Interviewed: Y / ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
☒ Industrial

School
Church

Commercial/Multi-use
Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: _____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) Former manufacturing (automotive and power transmission components)

Does it include residences (i.e., multi-use)? Y / ☒ N If yes, how many? _____

Other characteristics:

Number of floors 5

Building age 100+

Is the building insulated? ☒ Y / N

How air tight? ☒ Tight / Average / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

N/A; airflow testing not evaluated during vapor intrusion assessment

Airflow between floors

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick steel/iron
- b. Basement type: full crawlspace slab other _____
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: uncovered covered covered with linoleum flooring in offices
- e. Concrete floor: unsealed sealed sealed with _____
- f. Foundation walls: poured block stone other _____
- g. Foundation walls: unsealed sealed sealed with _____
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y / (N)
- k. Water in sump? Y / N / not applicable

Basement/Lowest level depth below grade: 11.1 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Utilities present including stormwater, water, sewer, steam, electric etc. Numerous slab, interior and exterior wall penetrations present

for these utilities.

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	<u>Heat pump</u>	Hot water baseboard
Space Heaters	<u>Steam radiation</u>	Radiant floor
Electric baseboard	Wood stove	Outdoor wood boiler Other _____

The primary type of fuel used is:

<u>Natural Gas</u>	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: _____

Boiler/furnace located in: Basement Outdoors Main Floor Other Building 18

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? ☒ Y / N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

Ductwork present above drop ceiling in office areas

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

<u>Level</u>	<u>General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)</u> **Current usage/occupancy on office levels 1st-4th**
Basement	Office support systems (e.g. servers, telephone dist.) (most recent usage/occupancy)
1 st Floor	Reception, Offices
2 nd Floor	Offices
3 rd Floor	Offices
4 th Floor	Offices

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- a. Is there an attached garage? Y / ☒ N
- b. Does the garage have a separate heating unit? Y / N / ☒ NA
- c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / ☒ N / NA
Please specify _____
- d. Has the building ever had a fire? Y / ☒ N When? _____
- e. Is a kerosene or unvented gas space heater present? Y / ☒ N Where? _____
- f. Is there a workshop or hobby/craft area? Y / ☒ N Where & Type? _____
- g. Is there smoking in the building? Y / ☒ N How frequently? _____
- h. Have cleaning products been used recently? Y / ☒ N When & Type? _____
- i. Have cosmetic products been used recently? Y / ☒ N When & Type? _____

- j. Has painting/staining been done in the last 6 months? Y / ☒ Where & When? _____
- k. Is there new carpet, drapes or other textiles? Y / ☒ Where & When? _____
- l. Have air fresheners been used recently? Y / ☒ When & Type? _____
- m. Is there a kitchen exhaust fan? Y / ☒ If yes, where vented? _____
- n. Is there a bathroom exhaust fan? Y / ☒ If yes, where vented? _____
- o. Is there a clothes dryer? Y / ☒ If yes, is it vented outside? Y / N
- p. Has there been a pesticide application? Y / ☒ When & Type? _____

Are there odors in the building?

Y / ☒

If yes, please describe: _____

Do any of the building occupants use solvents at work?

☒ / N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? Current usage limited to maintenance activities, additional historical usage present throughout facility _____

If yes, are their clothes washed at work?

Y / ☒

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)

Yes, use dry-cleaning infrequently (monthly or less)

Yes, work at a dry-cleaning service

☒

Unknown

Is there a radon mitigation system for the building/structure? Y / ☒ Date of Installation: _____

Is the system active or passive?

Active/Passive

9. WATER AND SEWAGE

Water Supply: ☒ Public Water Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: ☒ Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

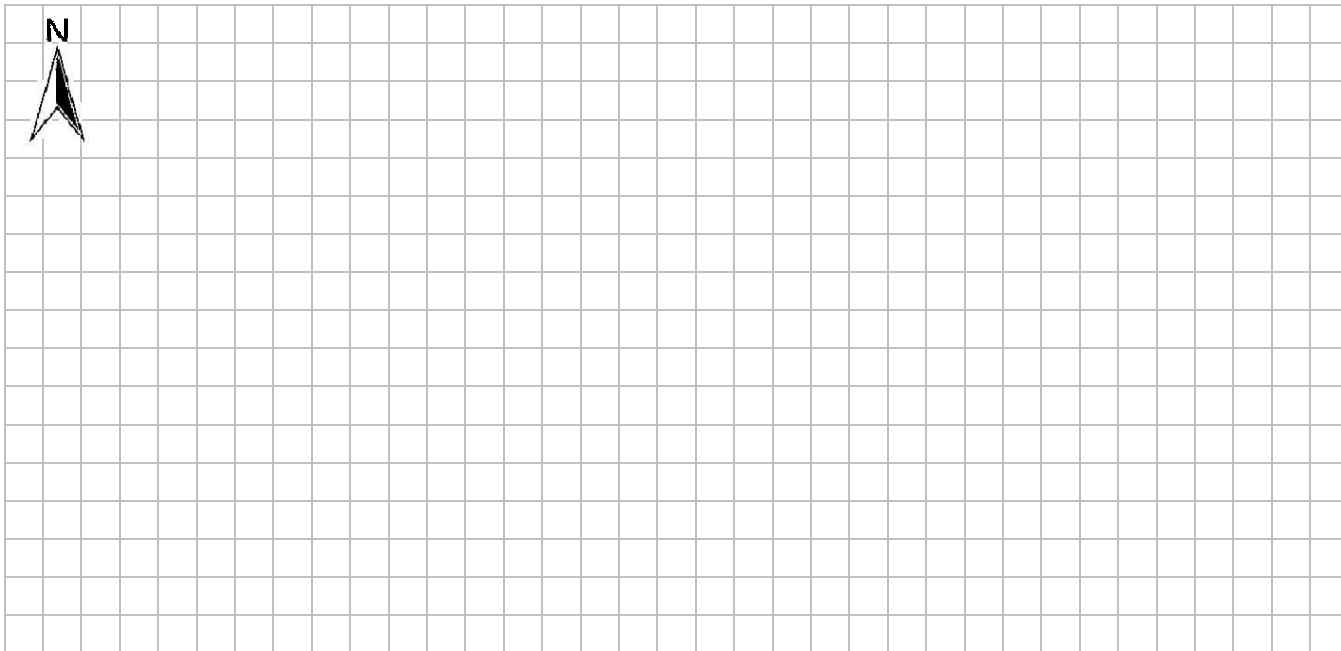
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

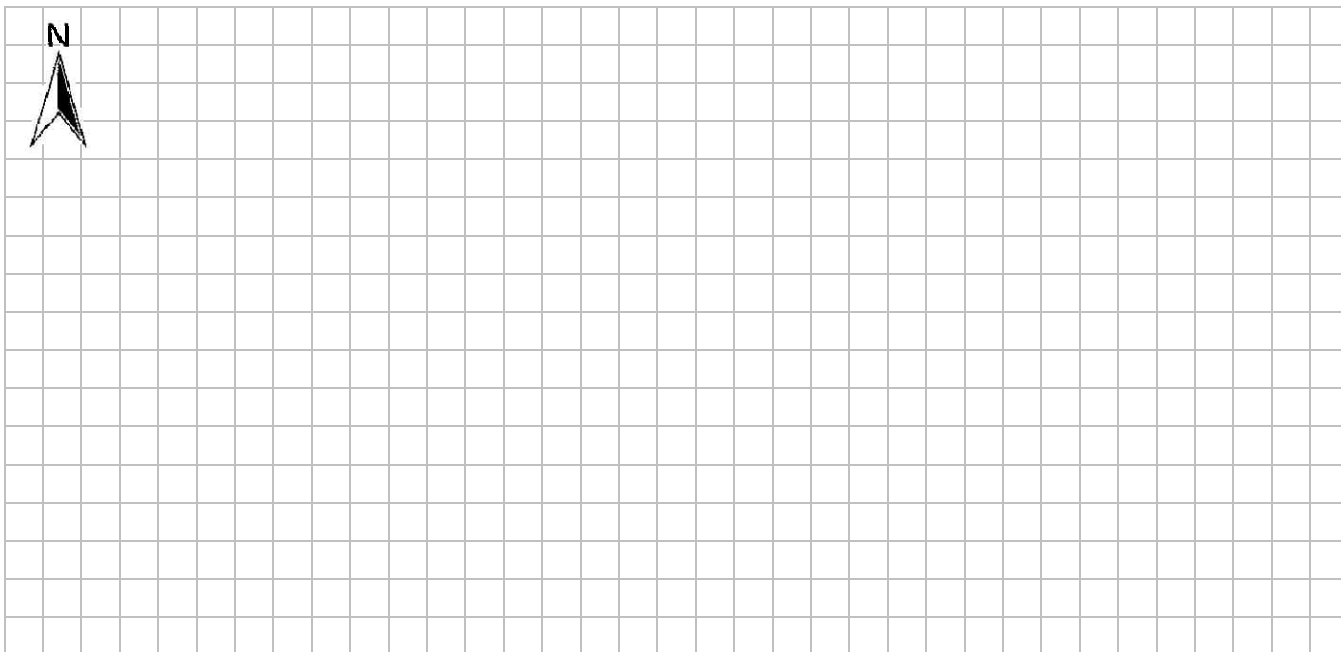
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



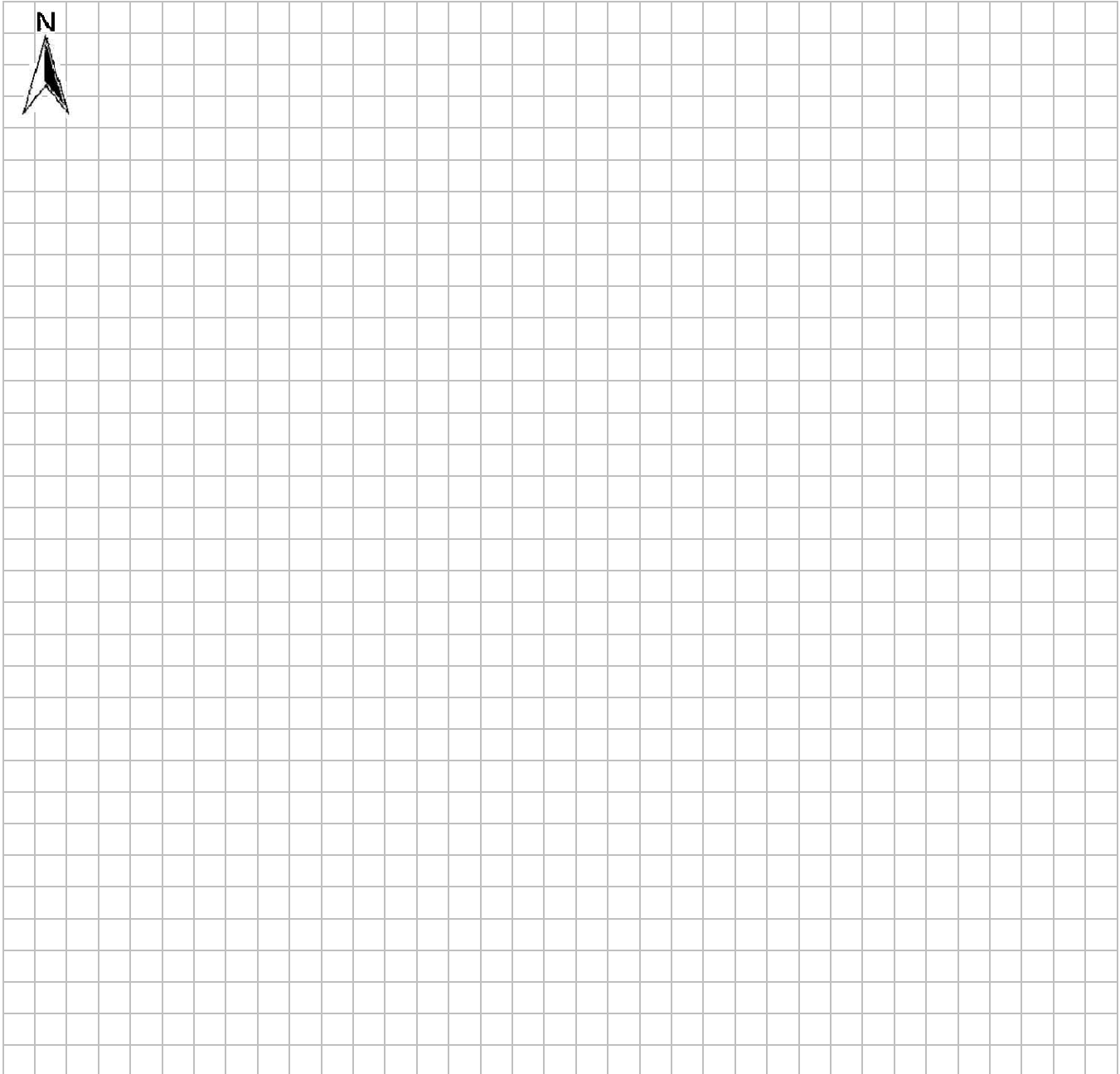
First Floor:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: RAE Systems ppbRAE 3000

List specific products found in the residence that have the potential to affect indoor air quality.

[illegible]

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

**** Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.**

**NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH**

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Dan Cummings Date/Time Prepared 3/13/2023

Preparer's Affiliation WSP Phone No. 571-329-1255

Purpose of Investigation Vapor Intrusion Assessment (2023)

1. OCCUPANT:

Interviewed: Y / ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ☐)

Interviewed: Y / ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
☒ Industrial

School
Church

Commercial/Multi-use
Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: _____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) Former manufacturing (automotive and power transmission components)

Does it include residences (i.e., multi-use)? Y / ☒ (N) If yes, how many? _____

Other characteristics:

Number of floors 4

Building age 100+

Is the building insulated? Y / ☒ (N)

How air tight? Tight / ☒ (Average) / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

N/A; airflow testing not evaluated during vapor intrusion assessment

Airflow between floors

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick steel/iron
- b. Basement type: full crawlspace slab other partial
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: uncovered covered covered with _____
- e. Concrete floor: unsealed sealed sealed with _____
- f. Foundation walls: poured block stone other _____
- g. Foundation walls: unsealed sealed sealed with _____
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y / (N)
- k. Water in sump? Y / N / not applicable

 Basement/Lowest level depth below grade: 12.25 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Utilities present including stormwater, sewer, water, air, steam, electric etc. Numerous slab, interior and exterior wall penetrations present

 for these utilities.

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	<u>Heat pump</u>	Hot water baseboard
Space Heaters	<u>Steam radiation</u>	Radiant floor
Electric baseboard	Wood stove	Outdoor wood boiler Other _____

The primary type of fuel used is:

<u>Natural Gas</u>	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: _____

 Boiler/furnace located in: Basement Outdoors Main Floor Other Building 18

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? Y / ☒ N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

Level **General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
****No current usage/occupancy****

Basement	Most recent historic usage not known
1 st Floor	Dept. 110 Link Plate Production (most recent usage/occupancy)
2 nd Floor	Office/Cafeteria (most recent usage/occupancy)
3 rd Floor	Most recent historic usage not known
4 th Floor	

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- a. Is there an attached garage? Y / ☒ N
- b. Does the garage have a separate heating unit? Y / N / ☒ NA
- c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / ☒ NA
Please specify _____
- d. Has the building ever had a fire? Y / ☒ N When? _____
- e. Is a kerosene or unvented gas space heater present? Y / ☒ N Where? _____
- f. Is there a workshop or hobby/craft area? Y / ☒ N Where & Type? _____
- g. Is there smoking in the building? Y / ☒ N How frequently? _____
- h. Have cleaning products been used recently? Y / ☒ N When & Type? _____
- i. Have cosmetic products been used recently? Y / ☒ N When & Type? _____

- j. Has painting/staining been done in the last 6 months? Y / ☒ Where & When? _____
- k. Is there new carpet, drapes or other textiles? Y / ☒ Where & When? _____
- l. Have air fresheners been used recently? Y / ☒ When & Type? _____
- m. Is there a kitchen exhaust fan? Y / ☒ If yes, where vented? _____
- n. Is there a bathroom exhaust fan? Y / ☒ If yes, where vented? _____
- o. Is there a clothes dryer? Y / ☒ If yes, is it vented outside? Y / N
- p. Has there been a pesticide application? Y / ☒ When & Type? _____

Are there odors in the building?

Y / ☒

If yes, please describe: _____

Do any of the building occupants use solvents at work?

☒ / N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? Current usage limited to maintenance activities, additional historical usage present throughout facility _____

If yes, are their clothes washed at work?

Y / ☒

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)

Yes, use dry-cleaning infrequently (monthly or less)

Yes, work at a dry-cleaning service

☒

Unknown

Is there a radon mitigation system for the building/structure? Y / ☒ Date of Installation: _____

Is the system active or passive?

Active/Passive

9. WATER AND SEWAGE

Water Supply: ☒ Public Water Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: ☒ Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

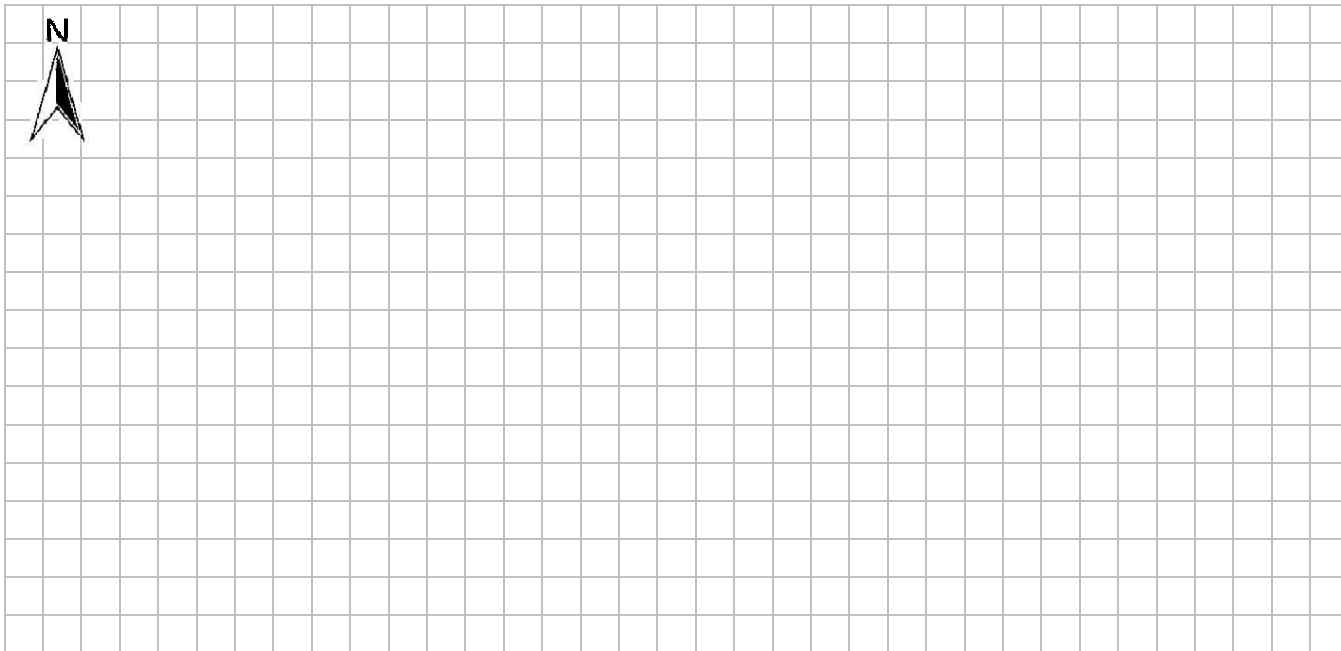
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

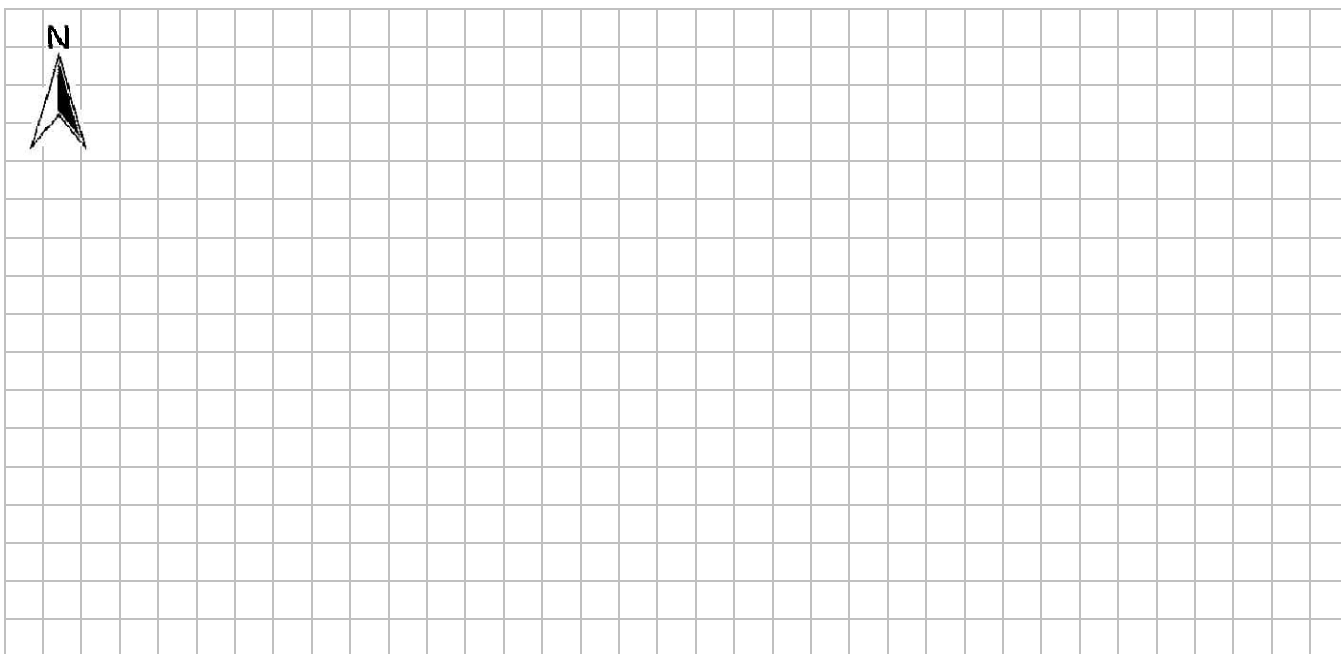
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



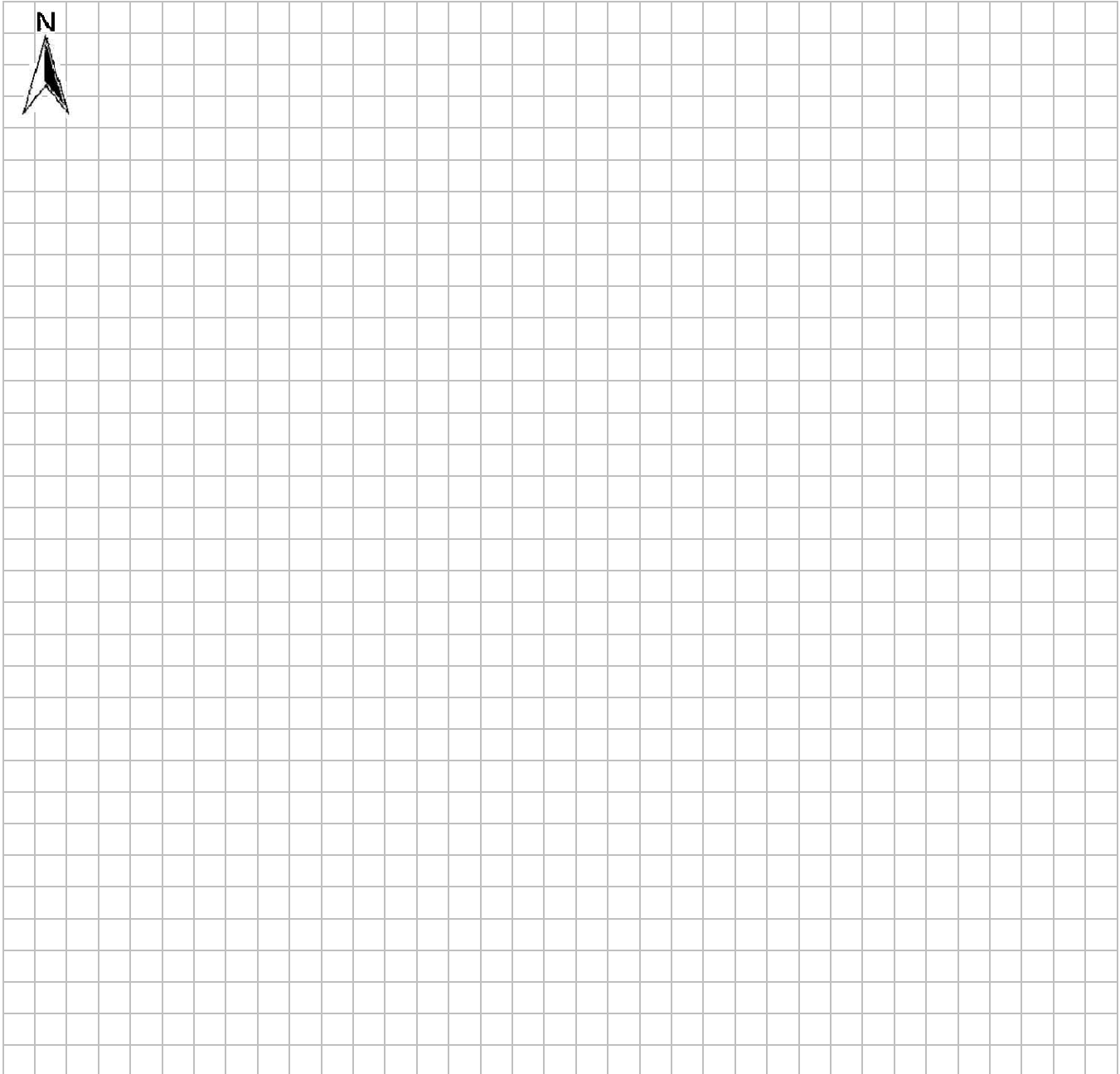
First Floor:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: RAE Systems ppbRAE 3000

List specific products found in the residence that have the potential to affect indoor air quality.

[illegible]

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

**** Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.**

**NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH**

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Dan Cummings Date/Time Prepared 3/13/2023

Preparer's Affiliation WSP Phone No. 571-329-1255

Purpose of Investigation Vapor Intrusion Assessment (2023)

1. OCCUPANT:

Interviewed: Y / ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ☐)

Interviewed: Y / ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
☒ Industrial

School
Church

Commercial/Multi-use
Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: _____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) Former manufacturing (automotive and power transmission components)

Does it include residences (i.e., multi-use)? Y / ☒ (N) If yes, how many? _____

Other characteristics:

Number of floors 4

Building age 100+

Is the building insulated? Y / ☒ (N)

How air tight? Tight / ☒ (Average) / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

N/A; airflow testing not evaluated during vapor intrusion assessment

Airflow between floors

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick steel/iron
- b. Basement type: full crawlspace slab other _____
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: uncovered covered covered with _____
- e. Concrete floor: unsealed sealed sealed with _____
- f. Foundation walls: poured block stone other _____
- g. Foundation walls: unsealed sealed sealed with _____
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y / (N)
- k. Water in sump? Y / N / not applicable

Basement/Lowest level depth below grade: 12.25 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Utilities present including stormwater, water, air, steam, electric etc. Numerous slab, interior, and exterior penetrations present for these utilities.

Exposed subgrade present from 2013 supplemental investigation.

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	<u>Heat pump</u>	Hot water baseboard
Space Heaters	<u>Steam radiation</u>	Radiant floor
Electric baseboard	Wood stove	Outdoor wood boiler Other _____

The primary type of fuel used is:

<u>Natural Gas</u>	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: _____

Boiler/furnace located in: Basement Outdoors Main Floor Other Building 18

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? Y / ☒ N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom ☒ Almost Never

Level **General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**

****Current usage/occupancy limited to 1st floor****

Basement	Most recent historic usage not known
1 st Floor	Facility maintenance (current usage)
2 nd Floor	Dept. 153 Tool Room (most recent usage/occupancy)
3 rd Floor	Most recent historic usage not known
4 th Floor	

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- a. Is there an attached garage? Y / ☒ N
- b. Does the garage have a separate heating unit? Y / N / ☒ NA
- c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / ☒ N / NA
Please specify _____
- d. Has the building ever had a fire? Y / ☒ N When? _____
- e. Is a kerosene or unvented gas space heater present? Y / ☒ N Where? _____
- f. Is there a workshop or hobby/craft area? ☒ Y / N Where & Type? 1st floor
- g. Is there smoking in the building? Y / ☒ N How frequently? _____
- h. Have cleaning products been used recently? Y / ☒ N When & Type? _____
- i. Have cosmetic products been used recently? Y / ☒ N When & Type? _____

- j. Has painting/staining been done in the last 6 months? Y / ☒ Where & When? _____
- k. Is there new carpet, drapes or other textiles? Y / ☒ Where & When? _____
- l. Have air fresheners been used recently? Y / ☒ When & Type? _____
- m. Is there a kitchen exhaust fan? Y / ☒ If yes, where vented? _____
- n. Is there a bathroom exhaust fan? Y / ☒ If yes, where vented? _____
- o. Is there a clothes dryer? Y / ☒ If yes, is it vented outside? Y / N
- p. Has there been a pesticide application? Y / ☒ When & Type? _____

Are there odors in the building?

Y / ☒

If yes, please describe: _____

Do any of the building occupants use solvents at work?

☒ / N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? Current usage limited to maintenance activities, additional historical usage present throughout facility _____

If yes, are their clothes washed at work?

Y / ☒

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)

Yes, use dry-cleaning infrequently (monthly or less)

Yes, work at a dry-cleaning service

☒

Unknown

Is there a radon mitigation system for the building/structure? Y / ☒ Date of Installation: _____

Is the system active or passive?

Active/Passive

9. WATER AND SEWAGE

Water Supply: ☒ Public Water Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: ☒ Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

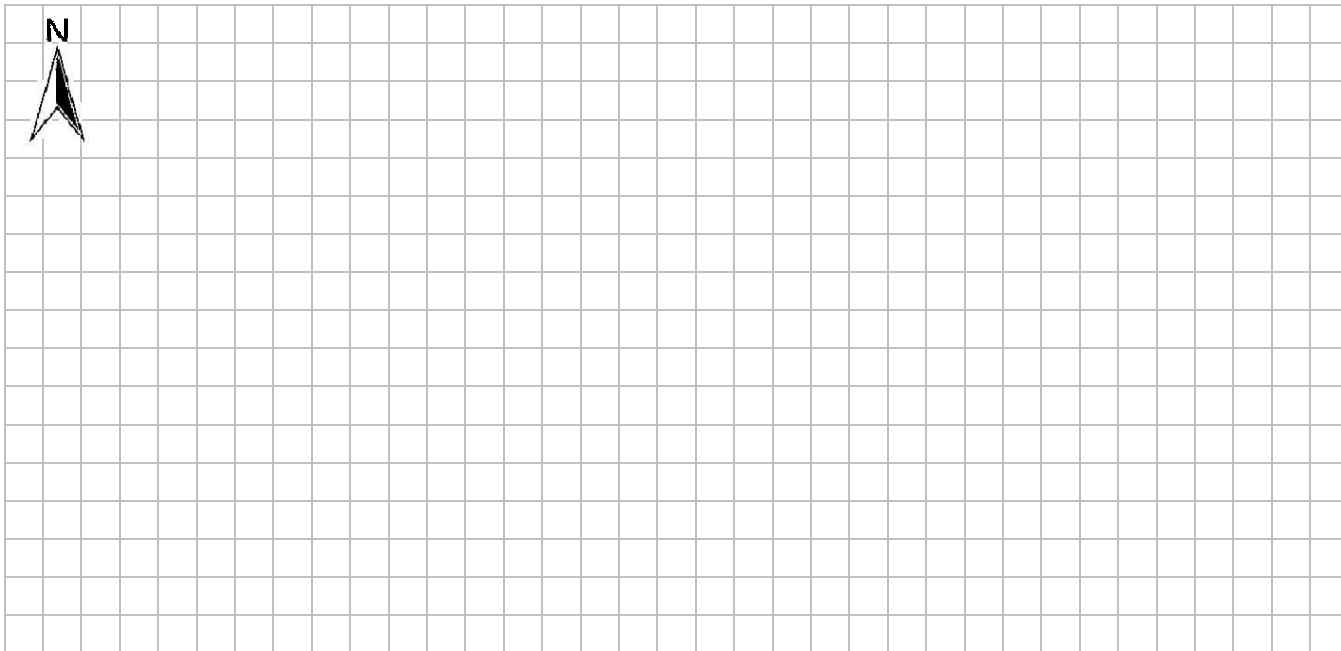
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

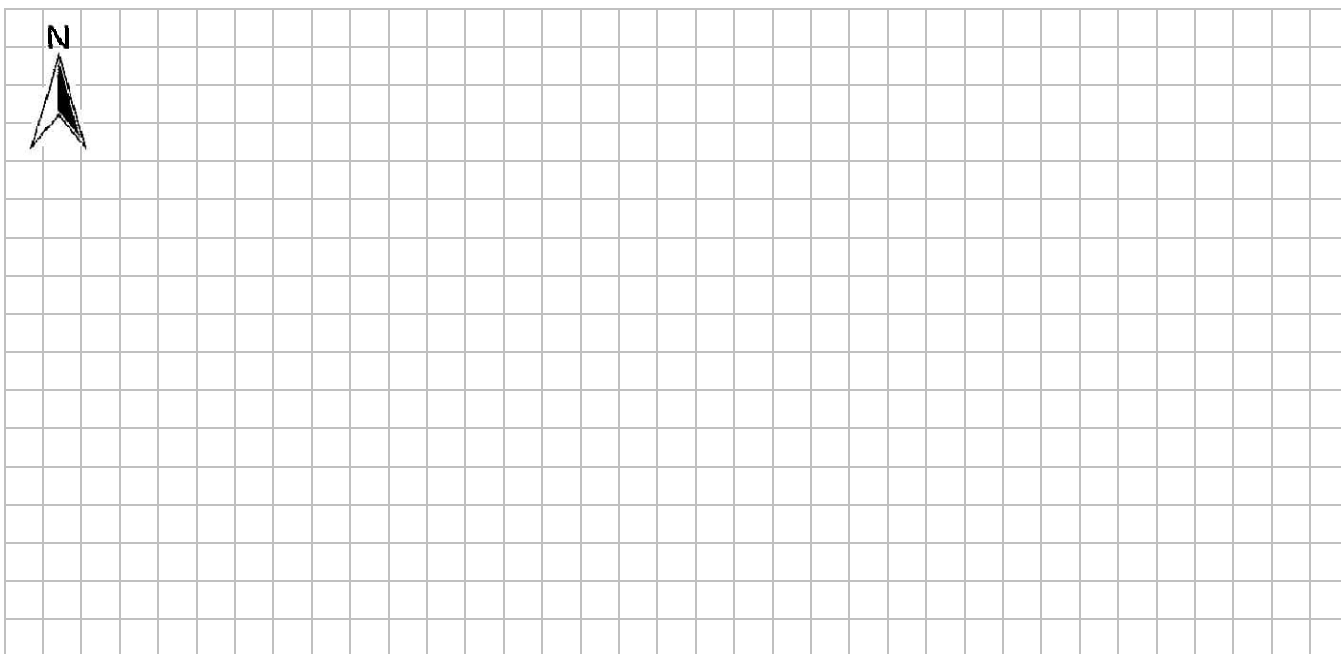
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



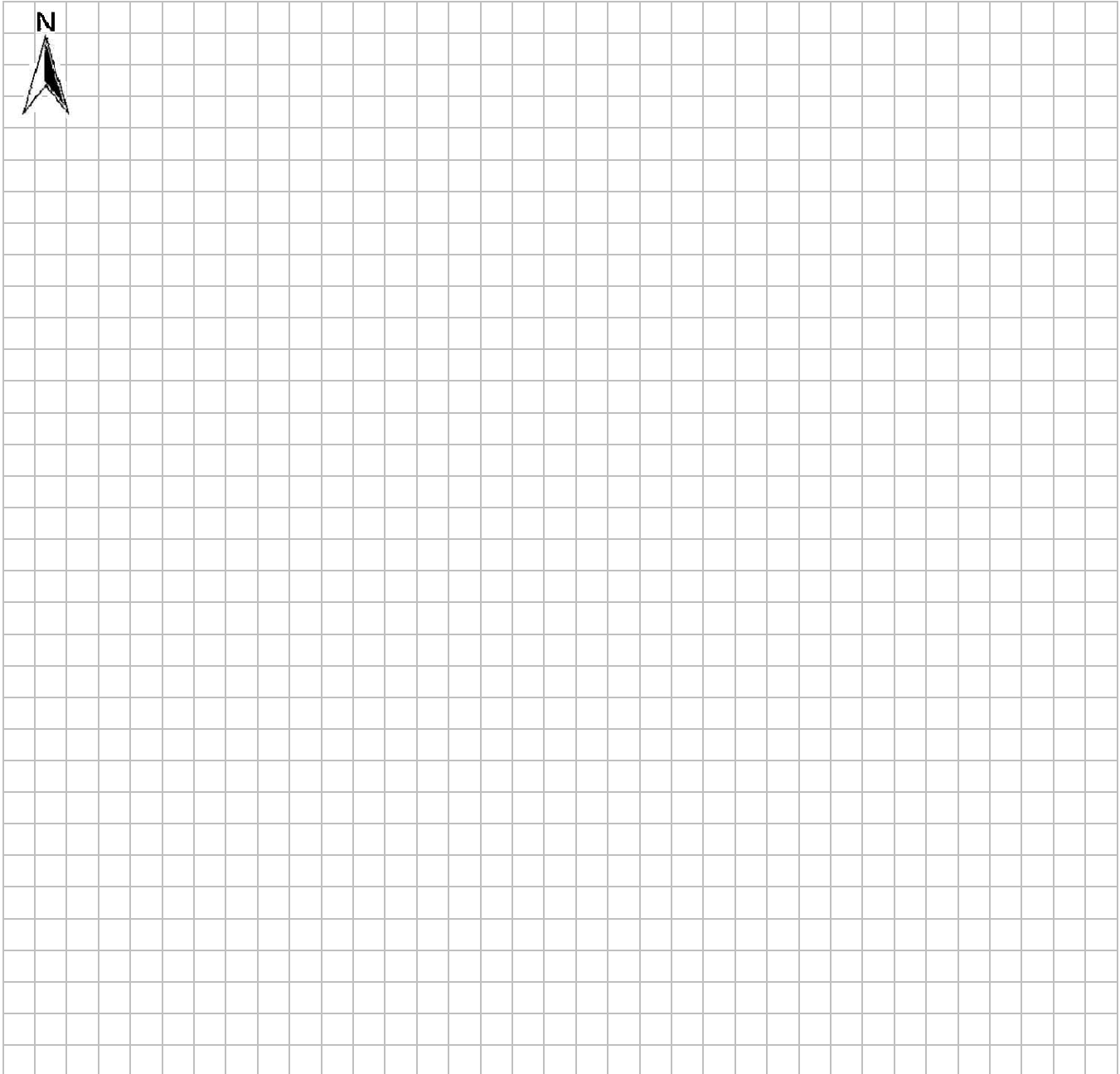
First Floor:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: RAE Systems ppbRAE 3000

List specific products found in the residence that have the potential to affect indoor air quality.

[illegible]

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

**** Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.**

**NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH**

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Dan Cummings Date/Time Prepared 3/13/2023

Preparer's Affiliation WSP Phone No. 571-329-1255

Purpose of Investigation Vapor Intrusion Assessment (2023)

1. OCCUPANT:

Interviewed: Y / ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ☐)

Interviewed: Y / ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
☒ Industrial

School
Church

Commercial/Multi-use
Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: _____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) Former manufacturing (automotive and power transmission components)

Does it include residences (i.e., multi-use)? Y / (N) If yes, how many? _____

Other characteristics:

Number of floors 4*

Building age 100+

Is the building insulated? Y / (N)

How air tight? Tight / (Average) / Not Tight

*Note: Building 4A including with questionnaire and inventory consists of single story and partial sub-basement

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

N/A; airflow testing not evaluated during vapor intrusion assessment

Airflow between floors

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick steel/iron
- b. Basement type: full crawlspace slab other _____
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: uncovered covered covered with linoleum flooring in offices/labs
- e. Concrete floor: unsealed sealed sealed with _____
- f. Foundation walls: poured block stone other _____
- g. Foundation walls: unsealed sealed sealed with _____
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y / (N)
- k. Water in sump? Y / N / not applicable

Basement/Lowest level depth below grade: 12.25 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Utilities present including stormwater, water, air, steam, electric etc. Numerous slab, interior and exterior wall penetrations present for these utilities.

Exposed subgrade present from 2013 supplemental investigation and 2019 IRM sewer investigation. Utility tunnel(s) present between Buildings 4 and 9.

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	<u>Heat pump</u>	Hot water baseboard
Space Heaters	<u>Steam radiation</u>	Radiant floor
Electric baseboard	Wood stove	Outdoor wood boiler Other _____

The primary type of fuel used is:

<u>Natural Gas</u>	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: _____

Boiler/furnace located in: Basement Outdoors Main Floor Other Building 18

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? Y / ☒ N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom ☒ Almost Never

Level **General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**

****Current usage/occupancy limited to 1st floor****

Basement	Calibration (gauge) lab, Dept. 507 (most recent usage/occupancy)
1 st Floor	Facility maintenance (current usage)
2 nd Floor	Offices, Dept. 153 Tool Room (most recent usage/occupancy)
3 rd Floor	Most recent historic usage not known
4 th Floor	

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- a. Is there an attached garage? Y / ☒ N
- b. Does the garage have a separate heating unit? Y / N / ☒ NA
- c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / ☒ NA
Please specify _____
- d. Has the building ever had a fire? Y / ☒ N When? _____
- e. Is a kerosene or unvented gas space heater present? Y / ☒ N Where? _____
- f. Is there a workshop or hobby/craft area? ☒ Y / N Where & Type? 1st floor
- g. Is there smoking in the building? Y / ☒ N How frequently? _____
- h. Have cleaning products been used recently? Y / ☒ N When & Type? _____
- i. Have cosmetic products been used recently? Y / ☒ N When & Type? _____

- j. Has painting/staining been done in the last 6 months? Y / ☒ Where & When? _____
- k. Is there new carpet, drapes or other textiles? Y / ☒ Where & When? _____
- l. Have air fresheners been used recently? Y / ☒ When & Type? _____
- m. Is there a kitchen exhaust fan? Y / ☒ If yes, where vented? _____
- n. Is there a bathroom exhaust fan? Y / ☒ If yes, where vented? _____
- o. Is there a clothes dryer? Y / ☒ If yes, is it vented outside? Y / N
- p. Has there been a pesticide application? Y / ☒ When & Type? _____

Are there odors in the building?

Y / ☒

If yes, please describe: _____

Do any of the building occupants use solvents at work?

☒ / N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? Current usage limited to maintenance activities, additional historical usage present throughout facility _____

If yes, are their clothes washed at work?

Y / ☒

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)

Yes, use dry-cleaning infrequently (monthly or less)

Yes, work at a dry-cleaning service

☒

Unknown

Is there a radon mitigation system for the building/structure? Y / ☒ Date of Installation: _____

Is the system active or passive?

Active/Passive

9. WATER AND SEWAGE

Water Supply: ☒ Public Water Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: ☒ Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

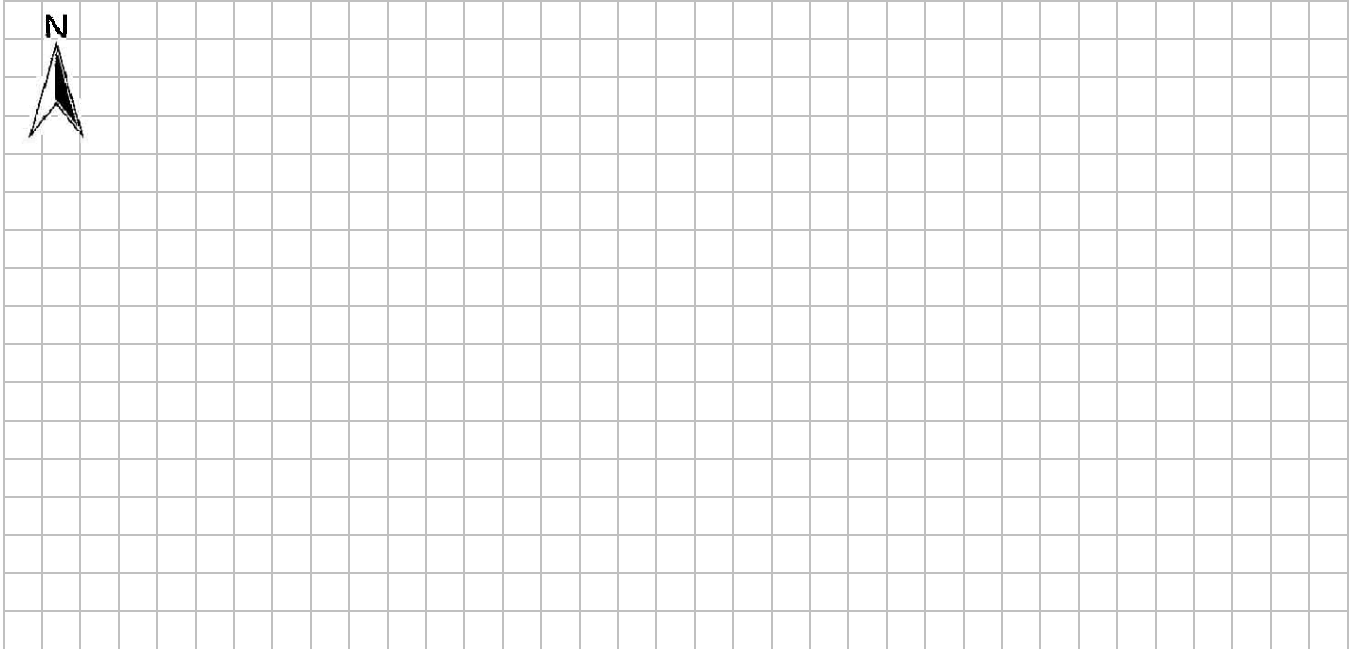
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

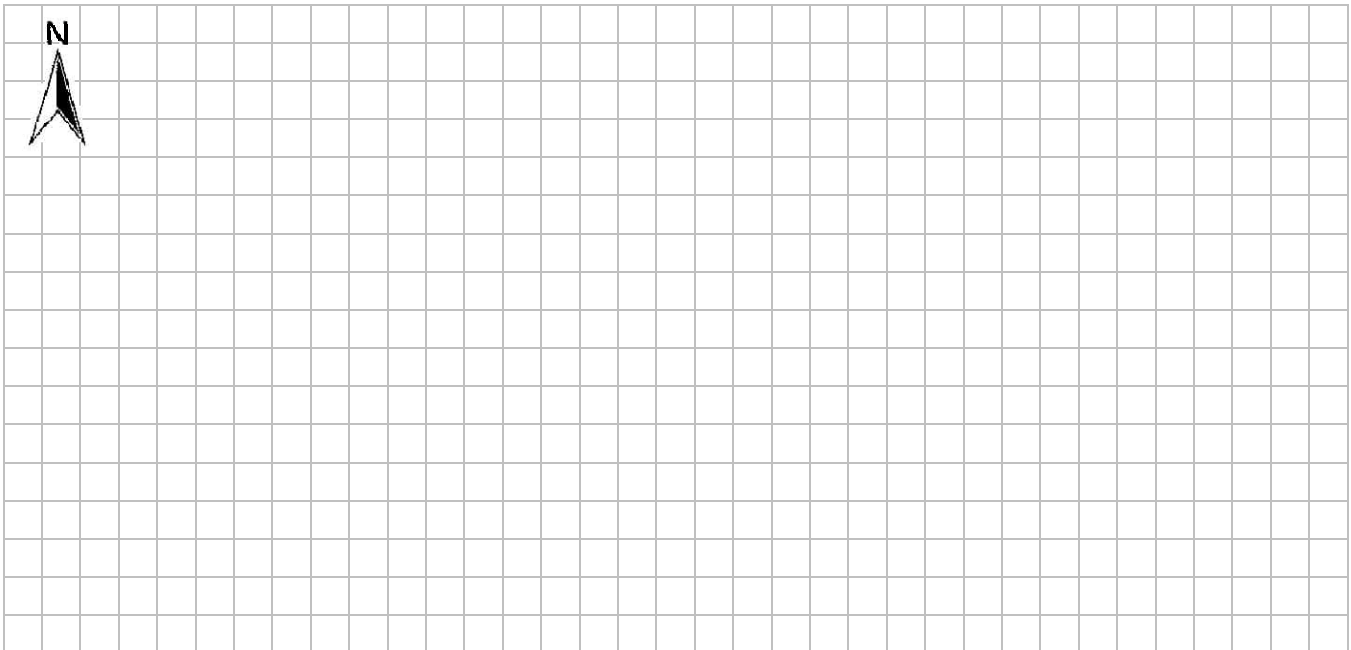
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



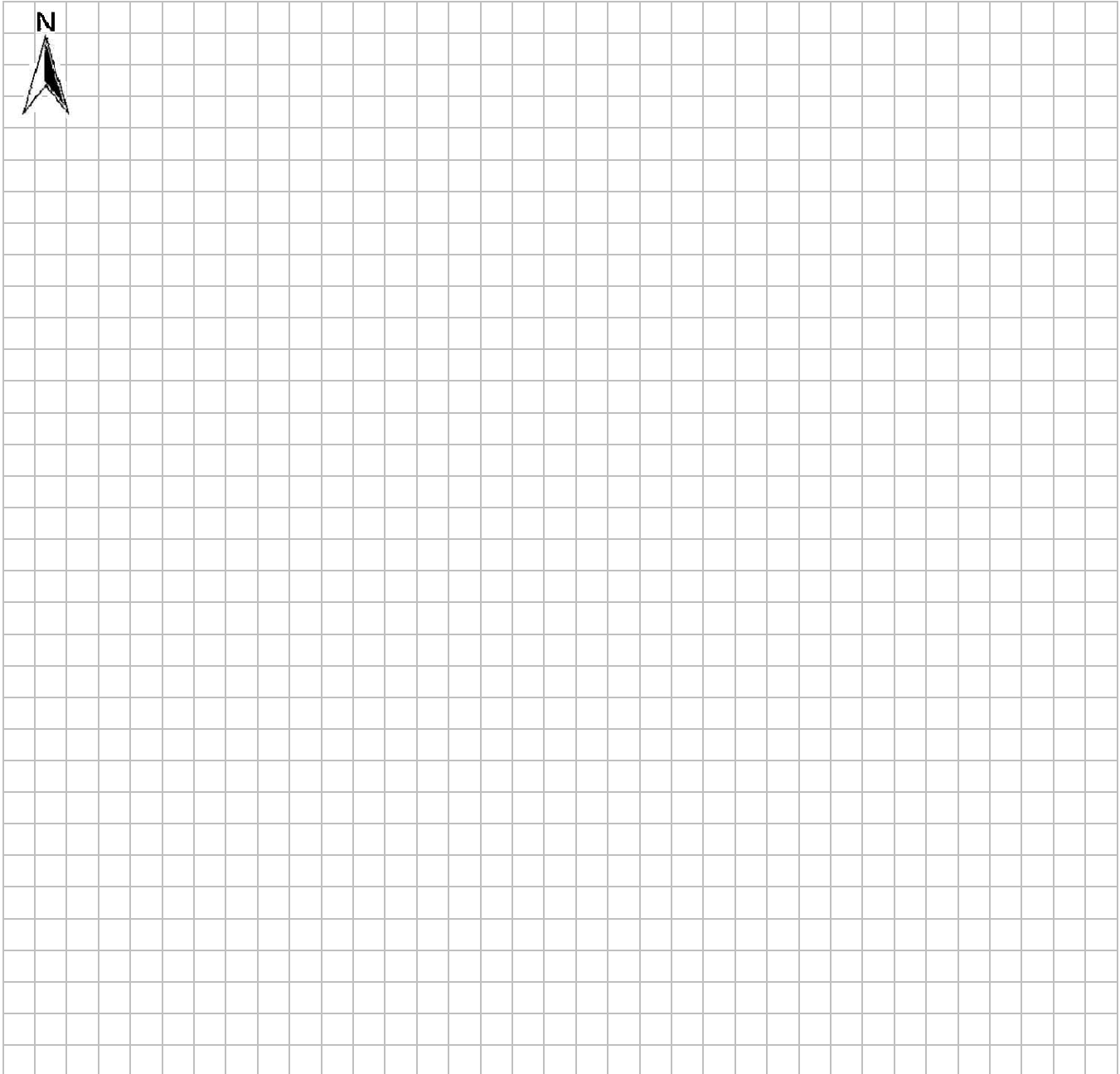
First Floor:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: RAE Systems ppbRAE 3000

List specific products found in the residence that have the potential to affect indoor air quality.

[illegible]

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

**** Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.**

**NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH**

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Dan Cummings Date/Time Prepared 3/13/2023

Preparer's Affiliation WSP Phone No. 571-329-1255

Purpose of Investigation Vapor Intrusion Assessment (2023)

1. OCCUPANT:

Interviewed: Y / ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ☐)

Interviewed: Y / ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
☒ Industrial

School
Church

Commercial/Multi-use
Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: _____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) Former manufacturing (automotive and power transmission components)

Does it include residences (i.e., multi-use)? Y / ☒ N If yes, how many? _____

Other characteristics:

Number of floors 5*

Building age 100+

Is the building insulated? Y / ☒ N

How air tight? Tight / ☒ Average / Not Tight

*Building 6 included with questionnaire and inventory consists of 2 floors

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

N/A; airflow testing not evaluated during vapor intrusion assessment

Airflow between floors

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick steel/iron
- b. Basement type: full crawlspace slab other _____
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: uncovered covered covered with _____
- e. Concrete floor: unsealed sealed sealed with _____
- f. Foundation walls: poured block stone other _____
- g. Foundation walls: unsealed sealed sealed with _____
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y / (N)
- k. Water in sump? Y / N / not applicable

Basement/Lowest level depth below grade: ~15 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Utilities present including stormwater, water, steam, electric etc. Numerous slab, interior and exterior wall penetrations present for these utilities.

Tunnel present between Buildings 5 and 35.

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	<u>Heat pump</u>	Hot water baseboard
Space Heaters	<u>Steam radiation</u>	Radiant floor
Electric baseboard	Wood stove	Outdoor wood boiler Other _____

The primary type of fuel used is:

<u>Natural Gas</u>	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: _____

Boiler/furnace located in: Basement Outdoors Main Floor Other Building 18

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? Y / ☒ N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom ☒ Almost Never

<u>Level</u>	<u>General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)</u>
	Current usage/occupancy limited to 2nd floor
Basement	Dept. 116A Specialty Chain (most recent usage/occupancy)
1 st Floor	Chain Assembly Production (most recent usage/occupancy)
2 nd Floor	Offices and Conference Room (current usage)
3 rd Floor	Carpenter's Shop (most recent usage/occupancy)
4 th Floor	Storage (most recent usage/occupancy)

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- a. Is there an attached garage? Y / ☒ N
- b. Does the garage have a separate heating unit? Y / N / ☒ NA
- c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / ☒ NA
Please specify _____
- d. Has the building ever had a fire? Y / ☒ N When? _____
- e. Is a kerosene or unvented gas space heater present? Y / ☒ N Where? _____
- f. Is there a workshop or hobby/craft area? Y / ☒ N Where & Type? _____
- g. Is there smoking in the building? Y / ☒ N How frequently? _____
- h. Have cleaning products been used recently? Y / ☒ N When & Type? _____
- i. Have cosmetic products been used recently? Y / ☒ N When & Type? _____

- j. Has painting/staining been done in the last 6 months? Y / ☒ Where & When? _____
- k. Is there new carpet, drapes or other textiles? Y / ☒ Where & When? _____
- l. Have air fresheners been used recently? Y / ☒ When & Type? _____
- m. Is there a kitchen exhaust fan? Y / ☒ If yes, where vented? _____
- n. Is there a bathroom exhaust fan? Y / ☒ If yes, where vented? _____
- o. Is there a clothes dryer? Y / ☒ If yes, is it vented outside? Y / N
- p. Has there been a pesticide application? Y / ☒ When & Type? _____

Are there odors in the building?

Y / ☒

If yes, please describe: _____

Do any of the building occupants use solvents at work?

☒ / N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? Current usage limited to maintenance activities, additional historical usage present throughout facility _____

If yes, are their clothes washed at work?

Y / ☒

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)

Yes, use dry-cleaning infrequently (monthly or less)

Yes, work at a dry-cleaning service

☒

Unknown

Is there a radon mitigation system for the building/structure? Y / ☒ Date of Installation: _____

Is the system active or passive?

Active/Passive

9. WATER AND SEWAGE

Water Supply: ☒ Public Water Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: ☒ Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

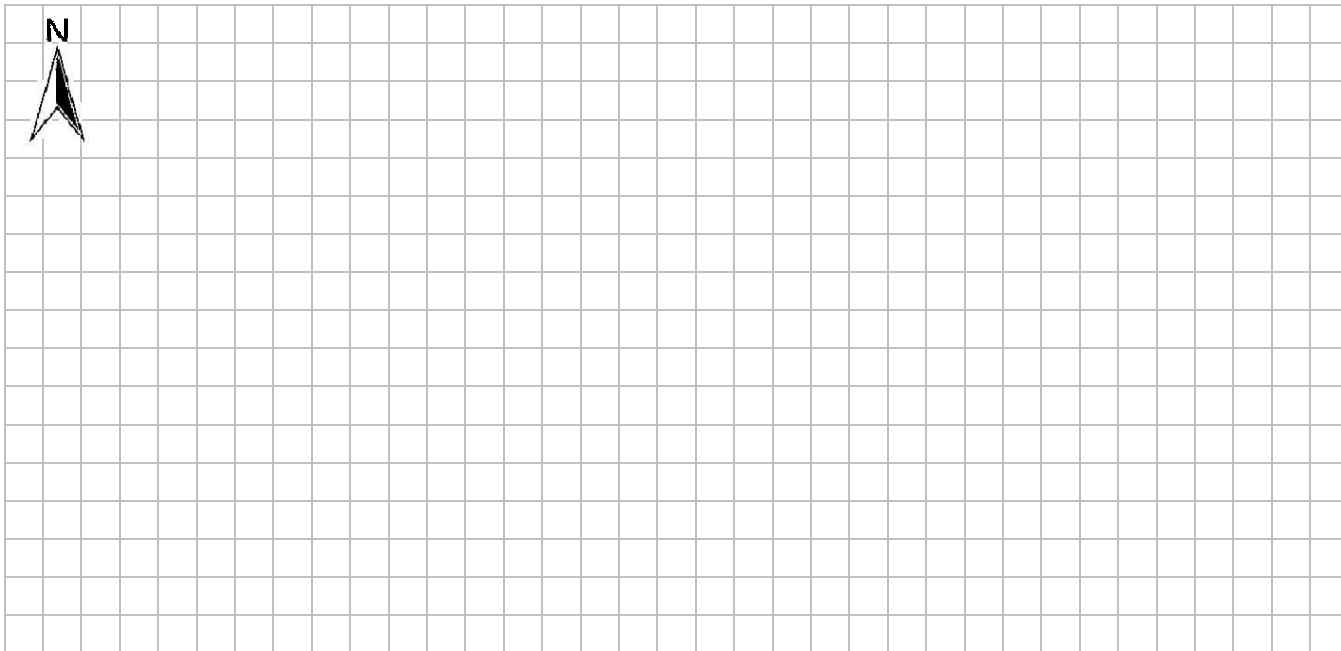
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

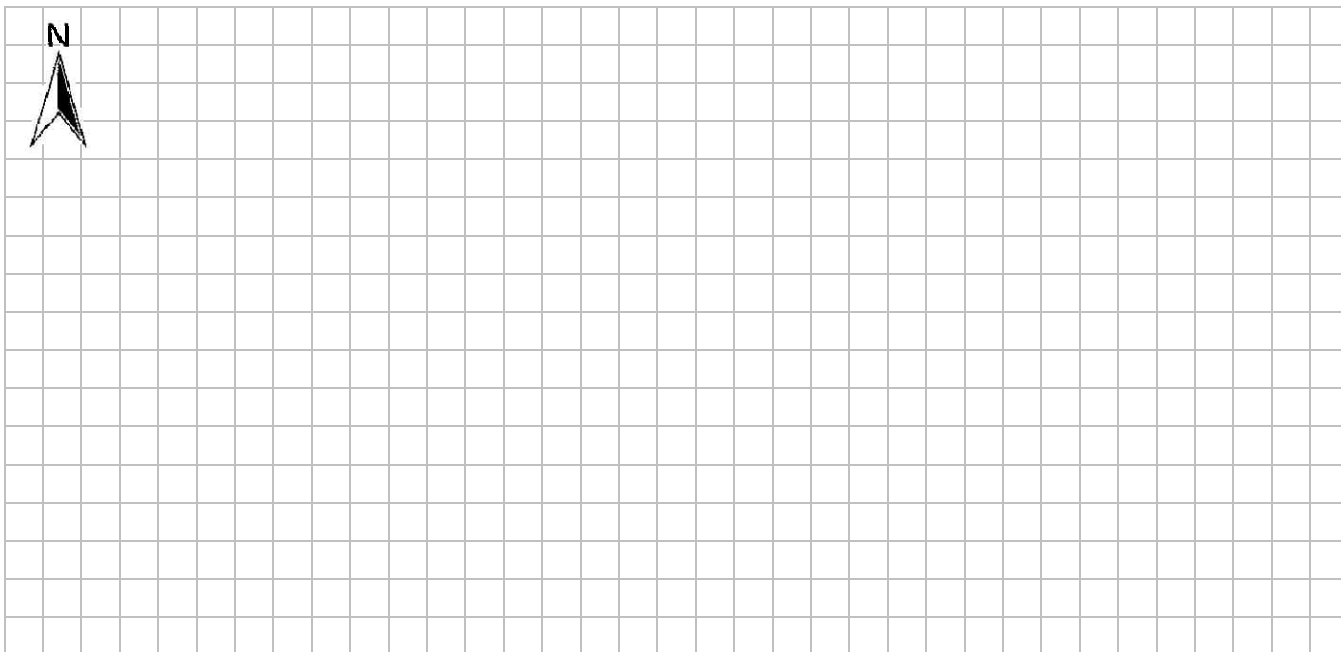
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



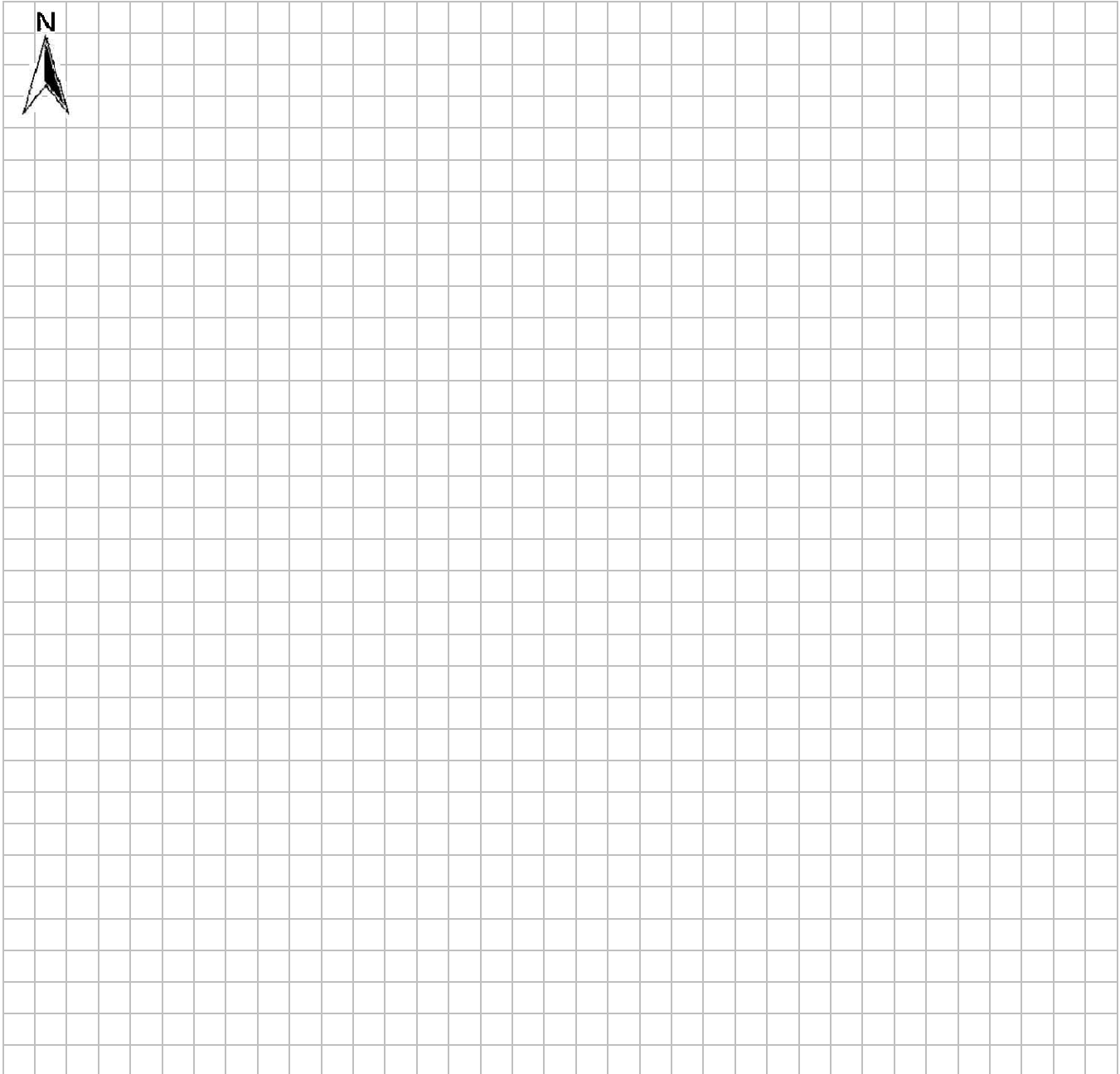
First Floor:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: RAE Systems ppbRAE 3000

List specific products found in the residence that have the potential to affect indoor air quality.

[illegible]

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

**** Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.**

**NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH**

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Dan Cummings Date/Time Prepared 3/13/2023

Preparer's Affiliation WSP Phone No. 571-329-1255

Purpose of Investigation Vapor Intrusion Assessment (2023)

1. OCCUPANT:

Interviewed: Y / ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ☐)

Interviewed: Y / ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
☒ Industrial

School
Church

Commercial/Multi-use
Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: _____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) Former manufacturing (automotive and power transmission components)

Does it include residences (i.e., multi-use)? Y / ☒ (N) If yes, how many? _____

Other characteristics:

Number of floors 2

Building age 50+

Is the building insulated? Y / ☒ (N)

How air tight? Tight / ☒ (Average) / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

N/A; airflow testing not evaluated during vapor intrusion assessment

Airflow between floors

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick steel
- b. Basement type: full crawlspace slab other partial
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: uncovered covered covered with _____
- e. Concrete floor: unsealed sealed sealed with _____
- f. Foundation walls: poured block stone other _____
- g. Foundation walls: unsealed sealed sealed with _____
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y / (N)
- k. Water in sump? Y / N / not applicable

Basement/Lowest level depth below grade: ~15 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Utilities present including stormwater, water, steam, electric etc. Numerous slab, interior and exterior wall penetrations present for these utilities.

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	<u>Heat pump</u>	Hot water baseboard
Space Heaters	<u>Steam radiation</u>	Radiant floor
Electric baseboard	Wood stove	Outdoor wood boiler Other _____

The primary type of fuel used is:

<u>Natural Gas</u>	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: _____

Boiler/furnace located in: Basement Outdoors Main Floor Other Building 18

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? Y / ☒ N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom ☒ Almost Never

Level **General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**

****No current usage/occupancy****

Basement	<u>Dept. 116A Specialty Chain (most recent usage/occupancy)</u>
1 st Floor	<u>Dept. 115/116 Roller Chain & Silent/HV Chain Assembly, Warehouse (most recent usage/occupancy)</u>
2 nd Floor	<u></u>
3 rd Floor	<u></u>
4 th Floor	<u></u>

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- | | |
|--|---|
| a. Is there an attached garage? | Y / ☒ N |
| b. Does the garage have a separate heating unit? | Y / N / ☒ NA |
| c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) | Y / ☒ N / NA
Please specify <u></u> |
| d. Has the building ever had a fire? | Y / ☒ N When? <u></u> |
| e. Is a kerosene or unvented gas space heater present? | Y / ☒ N Where? <u></u> |
| f. Is there a workshop or hobby/craft area? | Y / ☒ N Where & Type? <u></u> |
| g. Is there smoking in the building? | Y / ☒ N How frequently? <u></u> |
| h. Have cleaning products been used recently? | Y / ☒ N When & Type? <u></u> |
| i. Have cosmetic products been used recently? | Y / ☒ N When & Type? <u></u> |

- j. Has painting/staining been done in the last 6 months? Y / ☒ Where & When? _____
- k. Is there new carpet, drapes or other textiles? Y / ☒ Where & When? _____
- l. Have air fresheners been used recently? Y / ☒ When & Type? _____
- m. Is there a kitchen exhaust fan? Y / ☒ If yes, where vented? _____
- n. Is there a bathroom exhaust fan? Y / ☒ If yes, where vented? _____
- o. Is there a clothes dryer? Y / ☒ If yes, is it vented outside? Y / N
- p. Has there been a pesticide application? Y / ☒ When & Type? _____

Are there odors in the building?

Y / ☒

If yes, please describe: _____

Do any of the building occupants use solvents at work?

☒ / N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? Current usage limited to maintenance activities, additional historical usage present throughout facility _____

If yes, are their clothes washed at work?

Y / ☒

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)

Yes, use dry-cleaning infrequently (monthly or less)

Yes, work at a dry-cleaning service

☒

Unknown

Is there a radon mitigation system for the building/structure? Y / ☒ Date of Installation: _____

Is the system active or passive?

Active/Passive

9. WATER AND SEWAGE

Water Supply: ☒ Public Water Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: ☒ Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

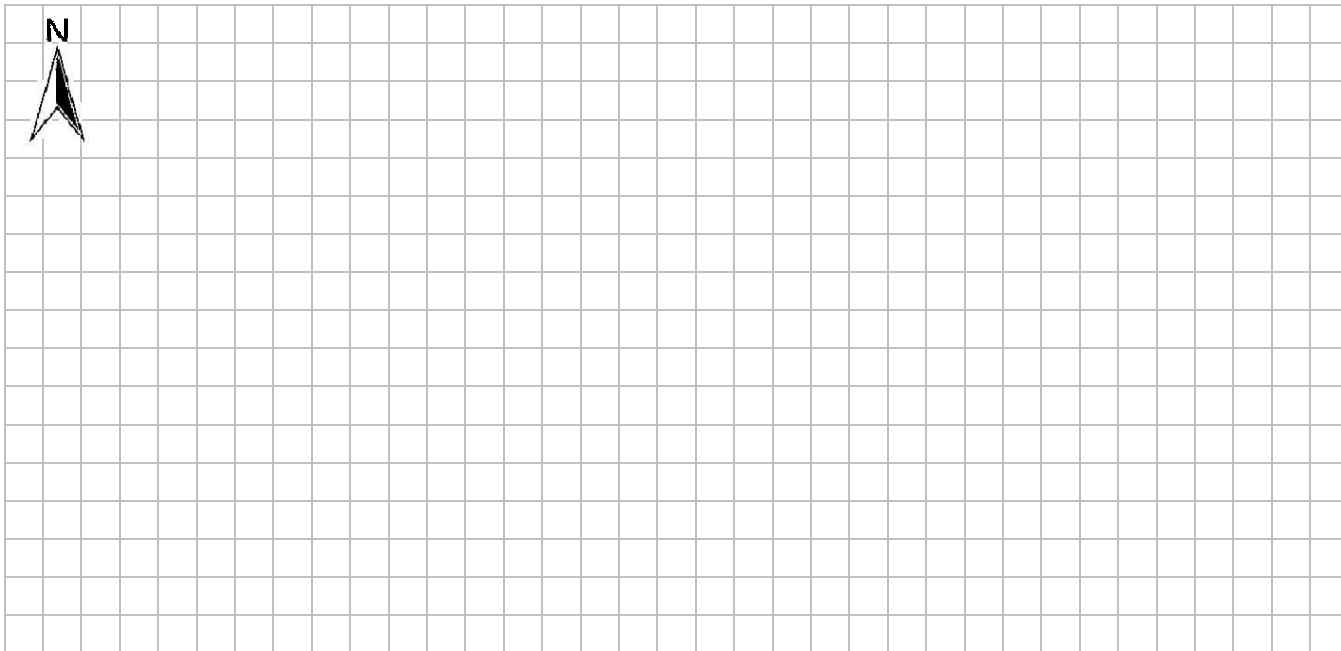
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

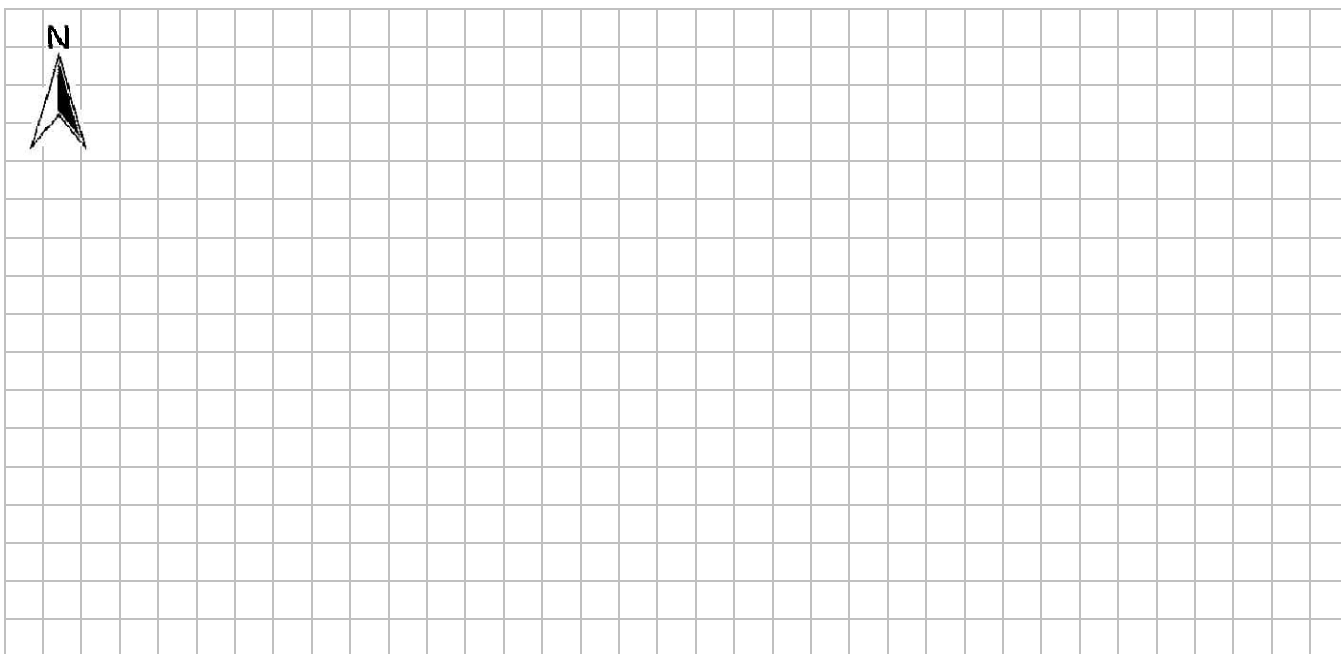
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



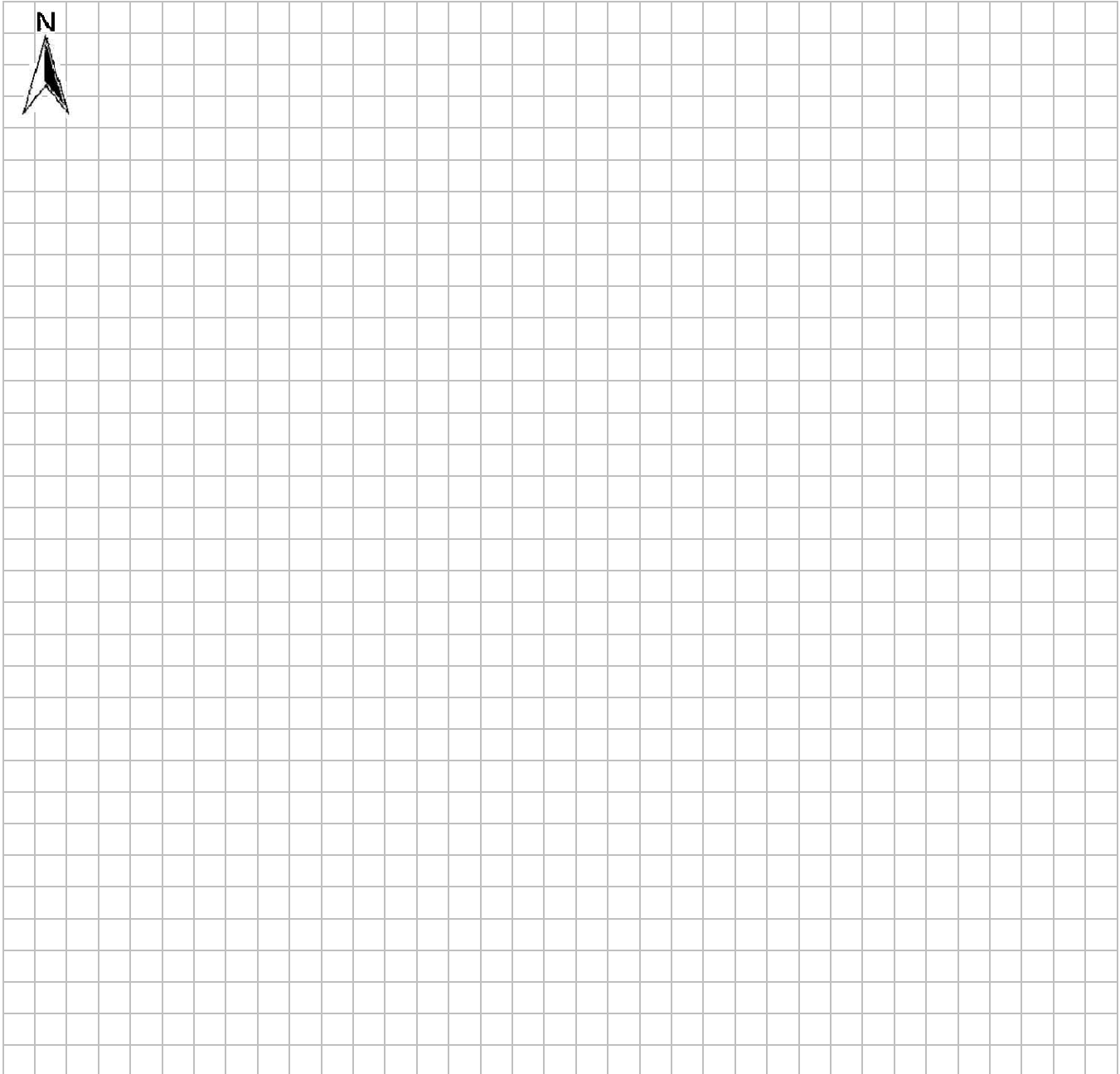
First Floor:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: RAE Systems ppbRAE 3000

List specific products found in the residence that have the potential to affect indoor air quality.

[illegible]

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

**** Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.**

**NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH**

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Dan Cummings Date/Time Prepared 3/13/2023

Preparer's Affiliation WSP Phone No. 571-329-1255

Purpose of Investigation Vapor Intrusion Assessment (2023)

1. OCCUPANT:

Interviewed: Y / ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ☐)

Interviewed: Y / ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
☒ Industrial

School
Church

Commercial/Multi-use
Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: _____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) Former manufacturing (automotive and power transmission components)

Does it include residences (i.e., multi-use)? Y / ☒ (N) If yes, how many? _____

Other characteristics:

Number of floors 1

Building age 75+

Is the building insulated? Y / ☒ (N)

How air tight? Tight / ☒ (Average) / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

N/A; airflow testing not evaluated during vapor intrusion assessment

Airflow between floors

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick steel
- b. Basement type: full crawlspace slab other _____
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: uncovered covered covered with _____
- e. Concrete floor: unsealed sealed sealed with _____
- f. Foundation walls: poured block stone other _____
- g. Foundation walls: unsealed sealed sealed with _____
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y (N)
- k. Water in sump? Y / N not applicable

Basement/Lowest level depth below grade: ~15 feet*(feet) *southern wall below grade

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Utilities present including stormwater, water, sewer, electric, steam etc. Numerous slab, interior and exterior wall

for these utilities. Exposed subgrade present from 2019 IRM sewer investigation.

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	Heat pump	Hot water baseboard
Space Heaters	<u>Steam radiation</u>	Radiant floor
Electric baseboard	Wood stove	Outdoor wood boiler Other _____

The primary type of fuel used is:

<u>Natural Gas</u>	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: _____

Boiler/furnace located in: Basement Outdoors Main Floor Other Building 18

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? Y / (N)

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom (Almost Never)

Level **General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
 No current usage/occupancy

Basement _____

1st Floor Dept 115/116 Silent/HV Chain and Roller Chain Assembly, Parts Storage (most recent historic usage)

2nd Floor _____

3rd Floor _____

4th Floor _____

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- a. Is there an attached garage? Y / (N)
- b. Does the garage have a separate heating unit? Y / N / (NA)
- c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / (N) / NA
 Please specify _____
- d. Has the building ever had a fire? Y / (N) When? _____
- e. Is a kerosene or unvented gas space heater present? Y / (N) Where? _____
- f. Is there a workshop or hobby/craft area? Y / (N) Where & Type? _____
- g. Is there smoking in the building? Y / (N) How frequently? _____
- h. Have cleaning products been used recently? Y / (N) When & Type? _____
- i. Have cosmetic products been used recently? Y / (N) When & Type? _____

- j. Has painting/staining been done in the last 6 months? Y / ☒ Where & When? _____
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- l. Have air fresheners been used recently? Y / ☒ When & Type? _____
- m. Is there a kitchen exhaust fan? Y / ☒ If yes, where vented? _____
- n. Is there a bathroom exhaust fan? Y / ☒ If yes, where vented? _____
- o. Is there a clothes dryer? Y / ☒ If yes, is it vented outside? Y / N
- p. Has there been a pesticide application? Y / ☒ When & Type? _____

Are there odors in the building?

Y / ☒

If yes, please describe: _____

Do any of the building occupants use solvents at work?

☒ / N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? Current usage limited to maintenance activities, additional historical usage present throughout facility _____

If yes, are their clothes washed at work?

Y / ☒

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)

Yes, use dry-cleaning infrequently (monthly or less)

Yes, work at a dry-cleaning service

☒

Unknown

Is there a radon mitigation system for the building/structure? Y / ☒ Date of Installation: _____

Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: ☒ Public Water Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: ☒ Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

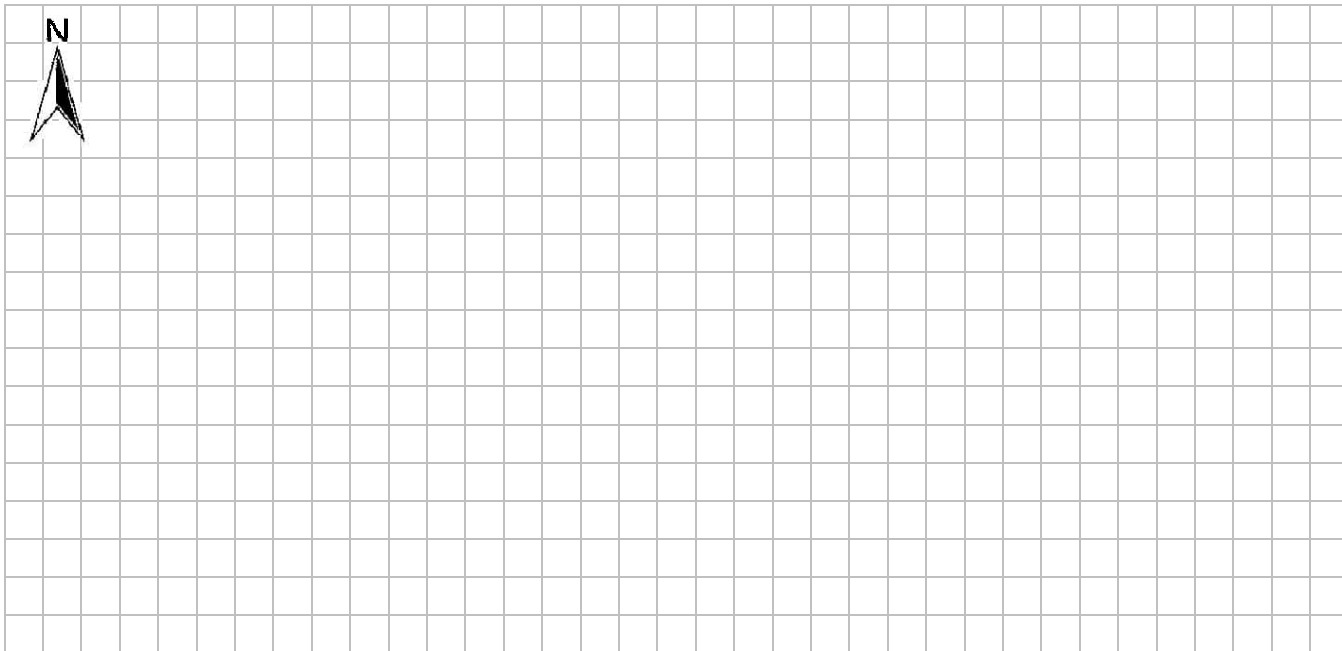
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

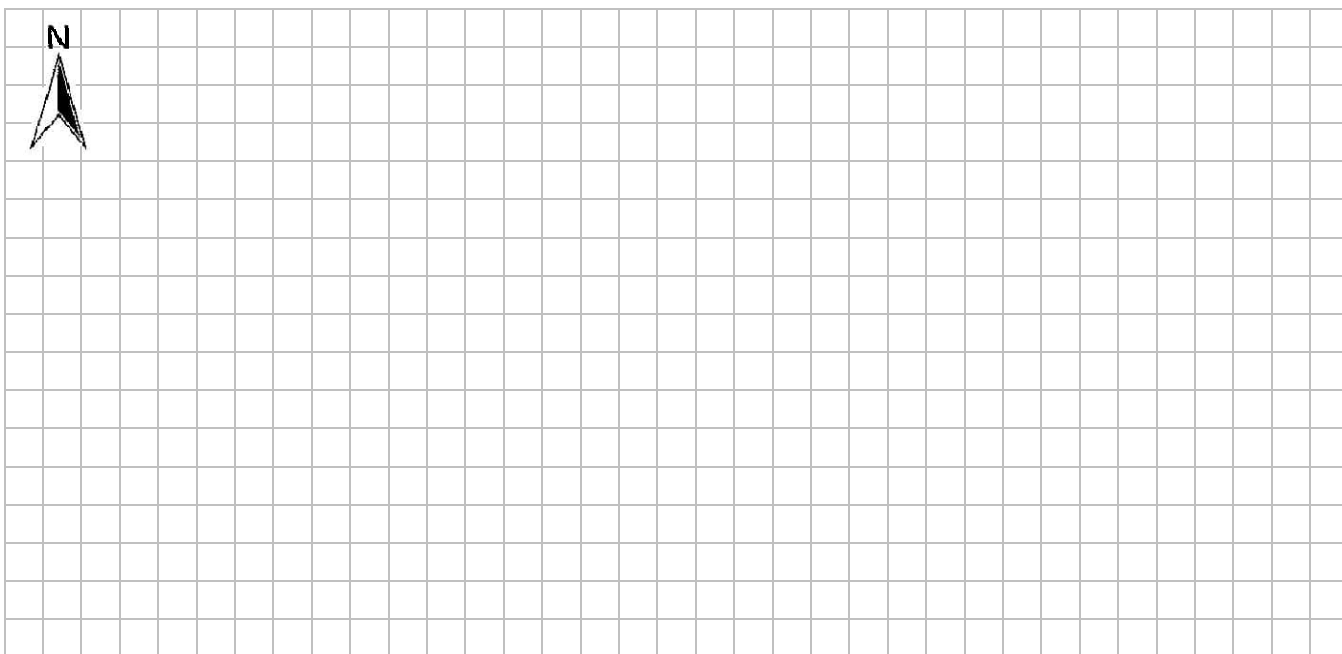
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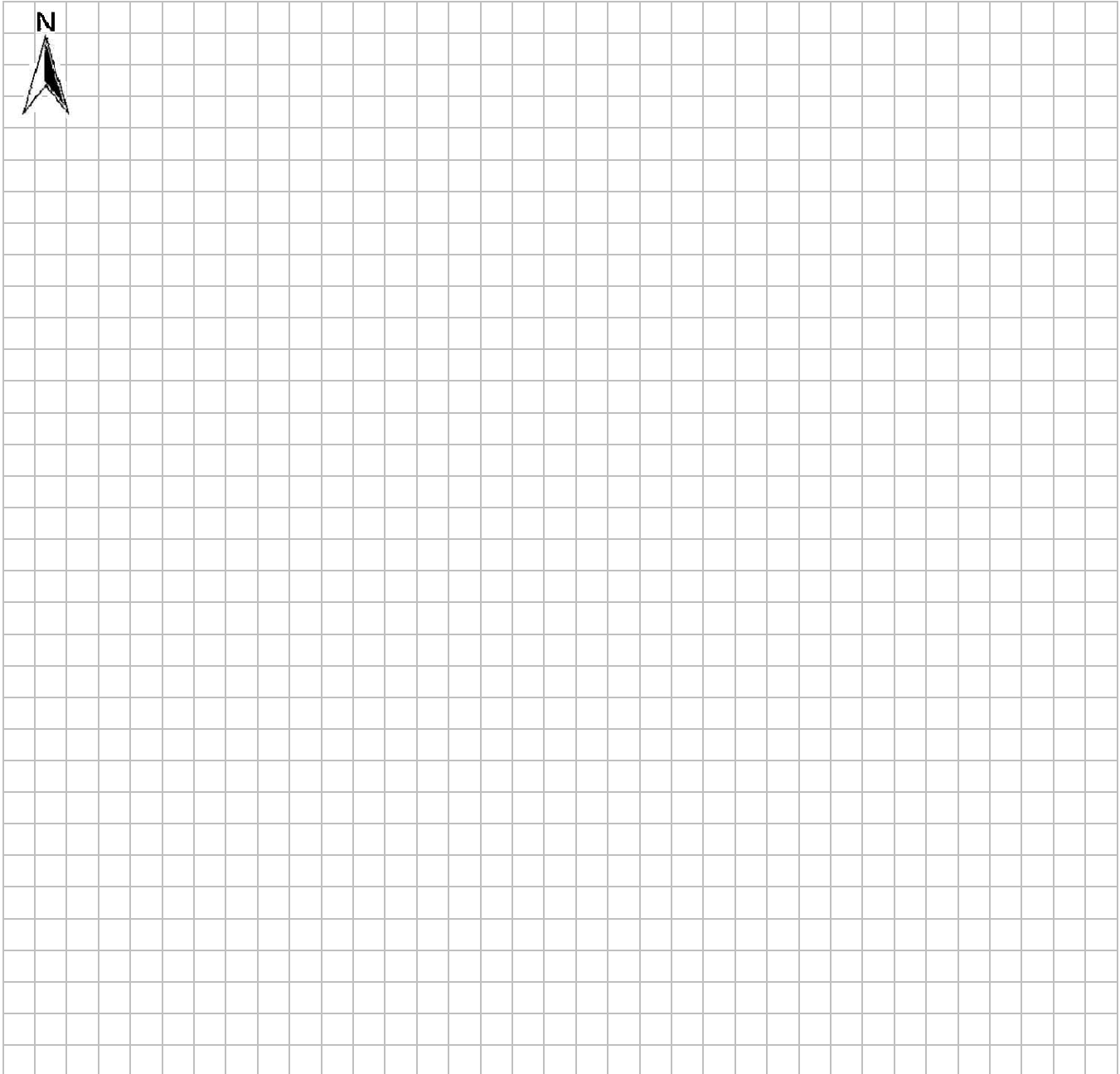
First Floor:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

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13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: RAE Systems ppbRAE 3000

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[illegible]

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INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
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This form must be completed for each residence involved in indoor air testing.

Preparer's Name Dan Cummings Date/Time Prepared 3/13/2023

Preparer's Affiliation WSP Phone No. 571-329-1255

Purpose of Investigation Vapor Intrusion Assessment (2023)

1. OCCUPANT:

Interviewed: Y / ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ☐)

Interviewed: Y / ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
☒ Industrial

School
Church

Commercial/Multi-use
Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: _____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) Former manufacturing (automotive and power transmission components)

Does it include residences (i.e., multi-use)? Y / ☒ (N) If yes, how many? _____

Other characteristics:

Number of floors 1*

Building age 75+

Is the building insulated? Y / ☒ (N)

How air tight? Tight / ☒ (Average) / Not Tight

*Partial mezzanine connected to Buildings 13A and 13B above portion of Building 9

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

N/A; airflow testing not evaluated during vapor intrusion assessment

Airflow between floors

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick steel
- b. Basement type: full crawlspace slab other _____
- c. Basement floor: concrete dirt stone other _____
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- e. Concrete floor: unsealed sealed sealed with _____
- f. Foundation walls: poured block stone other _____
- g. Foundation walls: unsealed sealed sealed with _____
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y (N)
- k. Water in sump? Y / N not applicable

Basement/Lowest level depth below grade: ~15 feet*(feet) *southern wall below grade

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Utilities present including stormwater, water, sewer, electric, steam etc. Numerous slab, interior and exterior wall

for these utilities

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	Heat pump	Hot water baseboard
Space Heaters	<u>Steam radiation</u>	Radiant floor
Electric baseboard	Wood stove	Outdoor wood boiler Other _____

The primary type of fuel used is:

<u>Natural Gas</u>	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: _____

Boiler/furnace located in: Basement Outdoors Main Floor Other Building 18

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? Y / ☒ N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom ☒ Almost Never

Level **General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**

****No current usage/occupancy****

Basement	
1 st Floor	Dept 110 Link Plate Production/Heat Treat (most recent historic usage)
2 nd Floor	
3 rd Floor	
4 th Floor	

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- a. Is there an attached garage? Y / ☒ N
- b. Does the garage have a separate heating unit? Y / N / ☒ NA
- c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / ☒ NA
Please specify

- d. Has the building ever had a fire? Y / ☒ N When?

- e. Is a kerosene or unvented gas space heater present? Y / ☒ N Where?

- f. Is there a workshop or hobby/craft area? Y / ☒ N Where & Type?

- g. Is there smoking in the building? Y / ☒ N How frequently?

- h. Have cleaning products been used recently? Y / ☒ N When & Type?

- i. Have cosmetic products been used recently? Y / ☒ N When & Type?

- j. Has painting/staining been done in the last 6 months? Y / ☒ Where & When? _____
- k. Is there new carpet, drapes or other textiles? Y / ☒ Where & When? _____
- l. Have air fresheners been used recently? Y / ☒ When & Type? _____
- m. Is there a kitchen exhaust fan? Y / ☒ If yes, where vented? _____
- n. Is there a bathroom exhaust fan? Y / ☒ If yes, where vented? _____
- o. Is there a clothes dryer? Y / ☒ If yes, is it vented outside? Y / N
- p. Has there been a pesticide application? Y / ☒ When & Type? _____

Are there odors in the building?

Y / ☒

If yes, please describe: _____

Do any of the building occupants use solvents at work?

☒ / N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? Current usage limited to maintenance activities, additional historical usage present throughout facility _____

If yes, are their clothes washed at work?

Y / ☒

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)

Yes, use dry-cleaning infrequently (monthly or less)

Yes, work at a dry-cleaning service

☒

Unknown

Is there a radon mitigation system for the building/structure? Y / ☒ Date of Installation: _____

Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: ☒ Public Water Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: ☒ Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

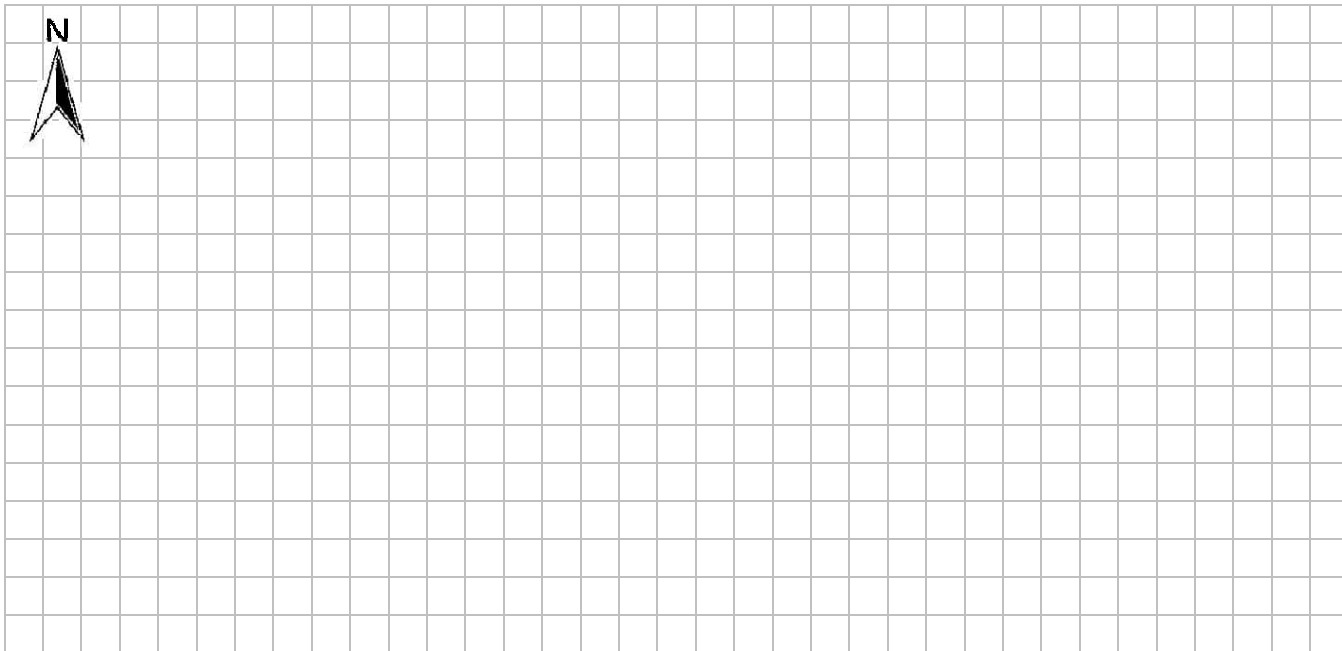
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

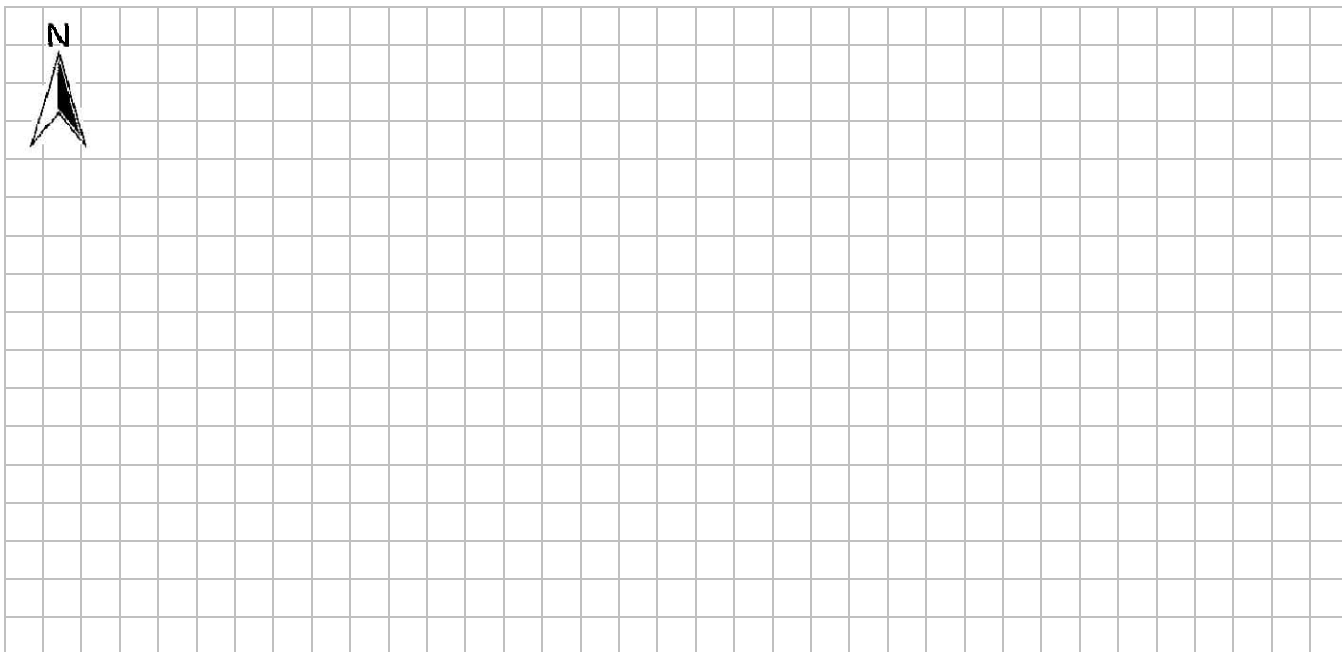
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



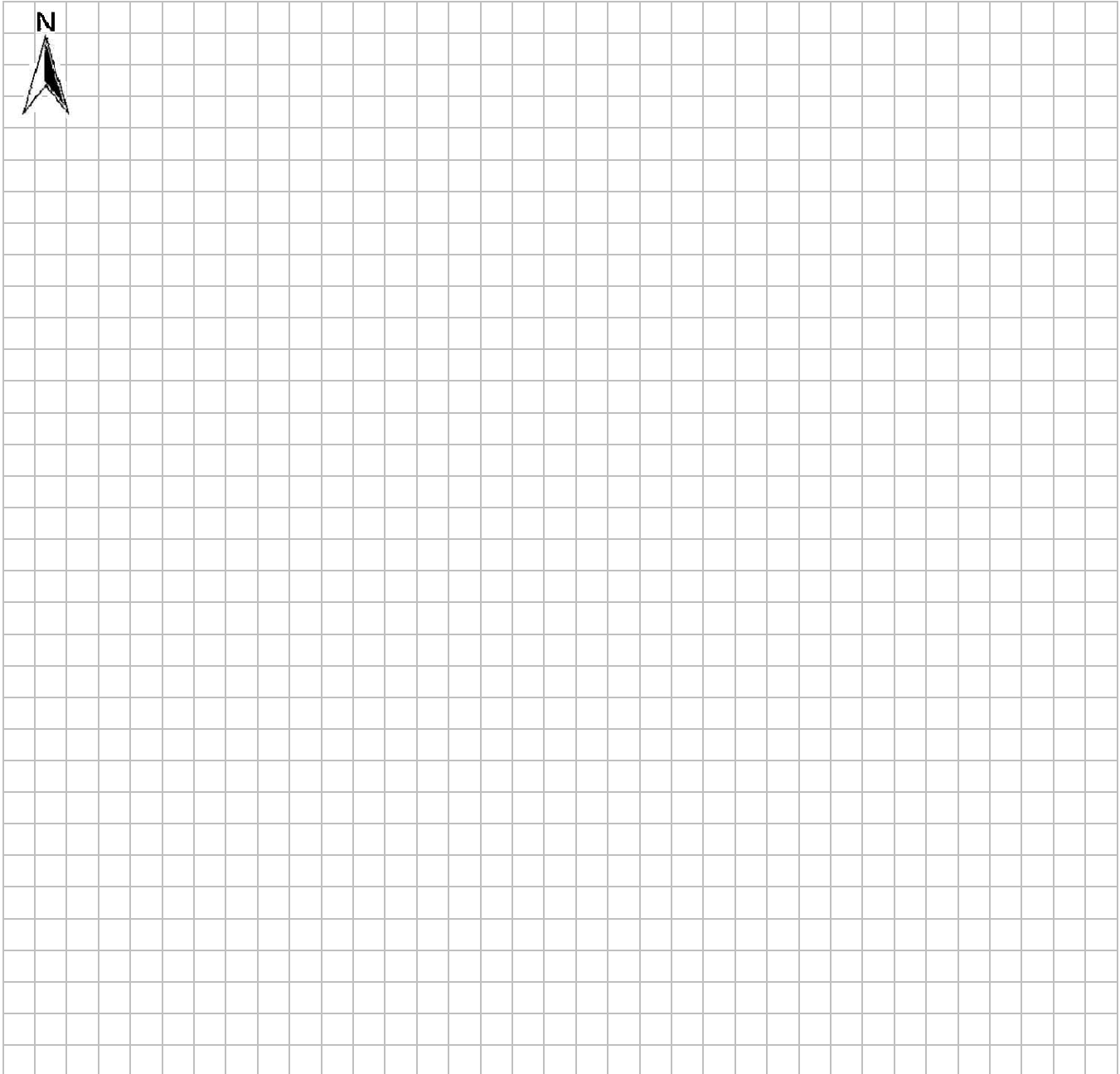
First Floor:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: RAE Systems ppbRAE 3000

List specific products found in the residence that have the potential to affect indoor air quality.

[illegible]

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

**** Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.**

**NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH**

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Dan Cummings Date/Time Prepared 3/13/2023

Preparer's Affiliation WSP Phone No. 571-329-1255

Purpose of Investigation Vapor Intrusion Assessment (2023)

1. OCCUPANT:

Interviewed: Y / ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ☐)

Interviewed: Y / ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
☒ Industrial

School
Church

Commercial/Multi-use
Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: _____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) Former manufacturing (automotive and power transmission components)

Does it include residences (i.e., multi-use)? Y / ☒ (N) If yes, how many? _____

Other characteristics:

Number of floors 1*

Building age 75+

Is the building insulated? Y / ☒ (N)

How air tight? Tight / ☒ (Average) / Not Tight

*partial mezzanine connected to Buildings 13A and 13B present over portions of Buildings 10 and 10A

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

N/A; airflow testing not evaluated during vapor intrusion assessment

Airflow between floors

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick steel
- b. Basement type: full crawlspace slab other _____
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: uncovered covered covered with _____
- e. Concrete floor: unsealed sealed sealed with _____
- f. Foundation walls: poured block stone other _____
- g. Foundation walls: unsealed sealed sealed with _____
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y (N)
- k. Water in sump? Y / N not applicable

Basement/Lowest level depth below grade: ~15* (feet) *southern wall below grade

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Utilities present including stormwater, water, sewer, electric, steam etc. Numerous slab, interior and exterior wall penetrations for

these utilities.

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	Heat pump	Hot water baseboard
Space Heaters	<u>Steam radiation</u>	Radiant floor
Electric baseboard	Wood stove	Outdoor wood boiler Other _____

The primary type of fuel used is:

<u>Natural Gas</u>	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: _____

Boiler/furnace located in: Basement Outdoors Main Floor Other Building 18

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? Y / ☒ N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

Level **General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**

****No current usage/occupancy****

Basement	
1 st Floor	Dept. 110 Link Plate Production (most recent usage/occupancy)
2 nd Floor	
3 rd Floor	
4 th Floor	

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- | | |
|--|---|
| a. Is there an attached garage? | Y / ☒ N |
| b. Does the garage have a separate heating unit? | Y / N / ☒ NA |
| c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) | Y / ☒ NA
Please specify <hr/> |
| d. Has the building ever had a fire? | Y / ☒ When? <hr/> |
| e. Is a kerosene or unvented gas space heater present? | Y / ☒ Where? <hr/> |
| f. Is there a workshop or hobby/craft area? | Y / ☒ Where & Type? <hr/> |
| g. Is there smoking in the building? | Y / ☒ How frequently? <hr/> |
| h. Have cleaning products been used recently? | Y / ☒ When & Type? <hr/> |
| i. Have cosmetic products been used recently? | Y / ☒ When & Type? <hr/> |

- j. Has painting/staining been done in the last 6 months? Y / ☒ Where & When? _____
- k. Is there new carpet, drapes or other textiles? Y / ☒ Where & When? _____
- l. Have air fresheners been used recently? Y / ☒ When & Type? _____
- m. Is there a kitchen exhaust fan? Y / ☒ If yes, where vented? _____
- n. Is there a bathroom exhaust fan? Y / ☒ If yes, where vented? _____
- o. Is there a clothes dryer? Y / ☒ If yes, is it vented outside? Y / N
- p. Has there been a pesticide application? Y / ☒ When & Type? _____

Are there odors in the building?

Y / ☒

If yes, please describe: _____

Do any of the building occupants use solvents at work?

☒ / N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? Current usage limited to maintenance activities, additional historical usage present throughout facility _____

If yes, are their clothes washed at work?

Y / ☒

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)

Yes, use dry-cleaning infrequently (monthly or less)

Yes, work at a dry-cleaning service

☒

Unknown

Is there a radon mitigation system for the building/structure? Y / ☒ Date of Installation: _____

Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: ☒ Public Water Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: ☒ Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

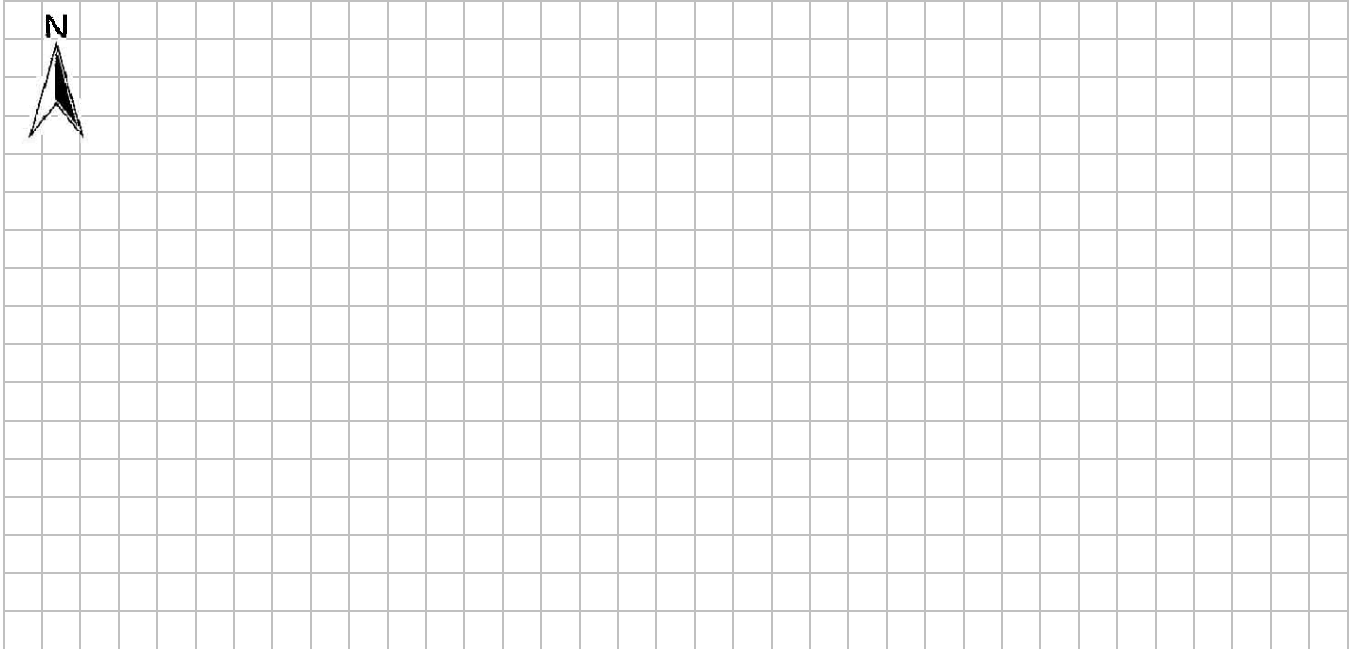
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

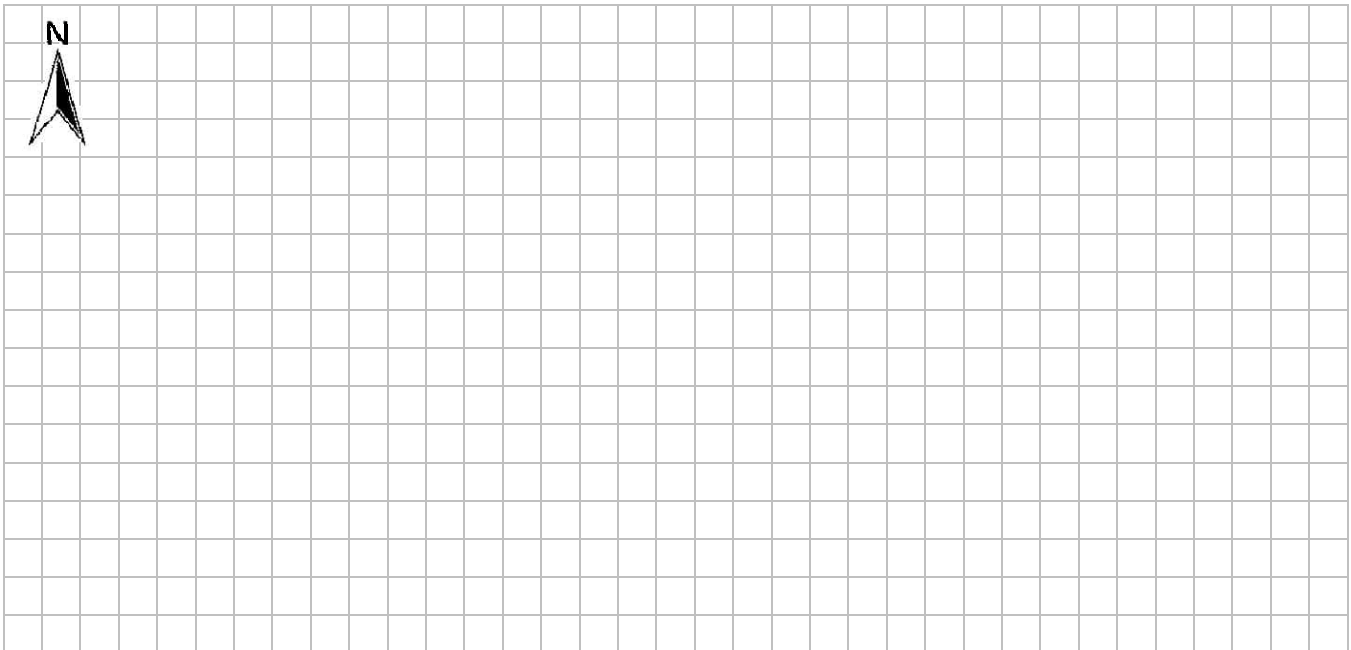
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



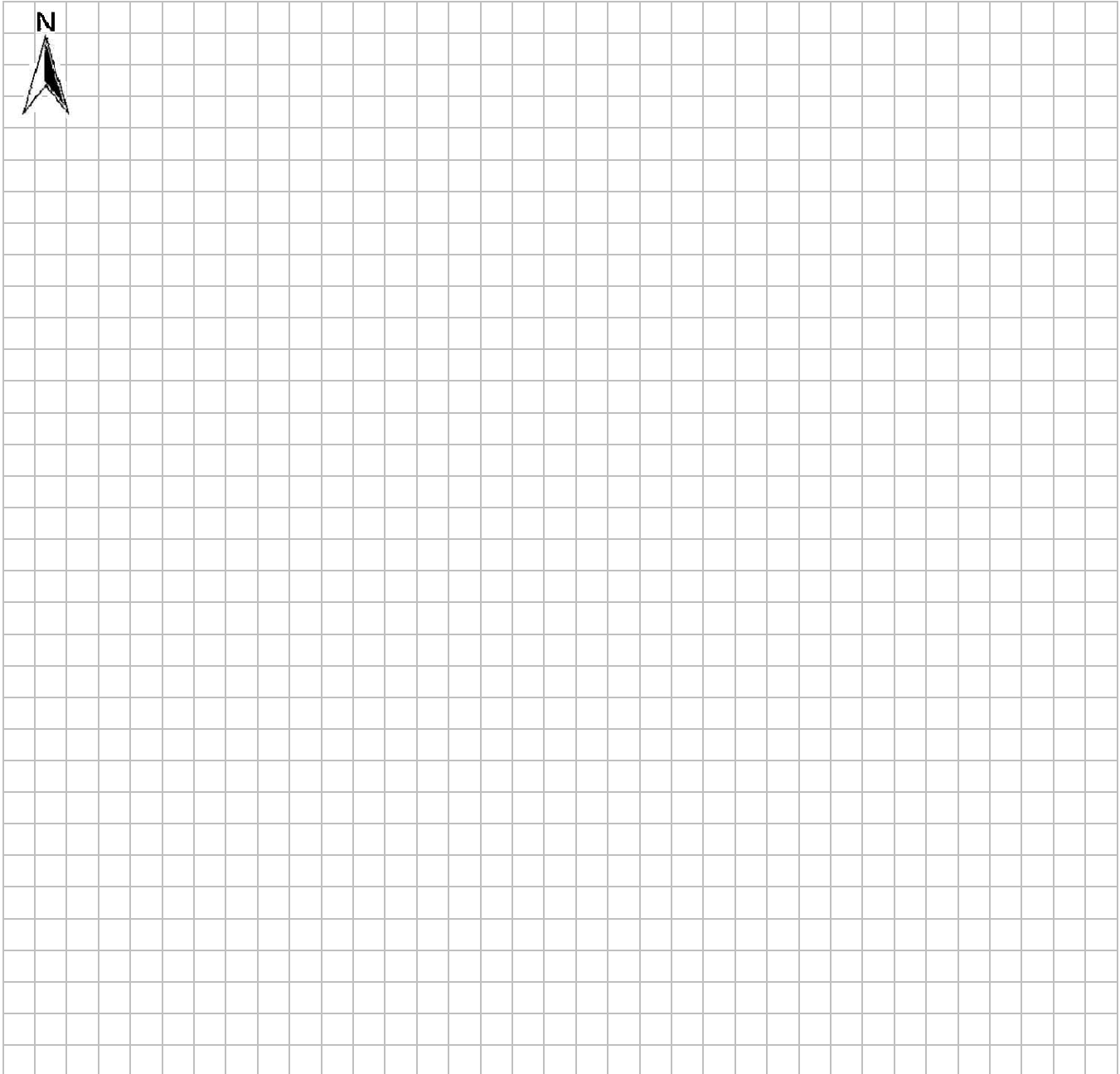
First Floor:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: RAE Systems ppbRAE 3000

List specific products found in the residence that have the potential to affect indoor air quality.

[illegible]

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

**** Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.**

**NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH**

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Dan Cummings Date/Time Prepared 3/13/2023

Preparer's Affiliation WSP Phone No. 571-329-1255

Purpose of Investigation Vapor Intrusion Assessment (2023)

1. OCCUPANT:

Interviewed: Y / ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ☐)

Interviewed: Y / ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
☒ Industrial

School
Church

Commercial/Multi-use
Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: _____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) Former manufacturing (automotive and power transmission components)

Does it include residences (i.e., multi-use)? Y / ☒ (N) If yes, how many? _____

Other characteristics:

Number of floors 1

Building age 50+

Is the building insulated? Y / ☒ (N)

How air tight? Tight ☒ (Average) / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

N/A; airflow testing not evaluated during vapor intrusion assessment

Airflow between floors

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick steel
- b. Basement type: full crawlspace slab other _____
- c. Basement floor: concrete dirt stone other _____
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- e. Concrete floor: unsealed sealed sealed with _____
- f. Foundation walls: poured block stone other _____
- g. Foundation walls: unsealed sealed sealed with _____
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y (N)
- k. Water in sump? Y / N not applicable

Basement/Lowest level depth below grade: _____^{0*} (feet) *at grade construction; lowest depth if included is recessed loading dock

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Utilities present including stormwater, water, steam, electric etc. Numerous slab and exterior wall penetrations for these utilities.

Exposed subgrade present from 2018/2019 IRM work.

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	<u>Heat pump</u>	Hot water baseboard
Space Heaters	<u>Steam radiation</u>	Radiant floor
Electric baseboard	Wood stove	Outdoor wood boiler Other _____

The primary type of fuel used is:

<u>Natural Gas</u>	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: _____

Boiler/furnace located in: Basement Outdoors Main Floor Other Building 18

Air conditioning: Central Air Window units Open Windows None

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

****Current usage/occupancy on 1st floor****

1st Floor **Materials staging and indoor parking area**

3rd Floor4th Floor

a. Is there an attached garage? Y / (N)

b. Does the garage have a separate heating unit? Y / N / **(NA)**

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) **(Y)**/ N / NA
Please specify cars, trucks, towable generator

d. Has the building ever had a fire? Y / (N) When? _____

e. Is a kerosene or unvented gas space heater present? Y / (N) Where? _____

f. Is there a workshop or hobby/craft area? Y / ☒ (N) Where & Type? _____

g. Is there smoking in the building? Y / ☒ N How frequently? _____

h. Have cleaning products been used recently? Y / (N) When & Type? _____

i. Have cosmetic products been used recently? Y / (N) When & Type?

- j. Has painting/staining been done in the last 6 months? Y / ☒ Where & When? _____
- k. Is there new carpet, drapes or other textiles? Y / ☒ Where & When? _____
- l. Have air fresheners been used recently? Y / ☒ When & Type? _____
- m. Is there a kitchen exhaust fan? Y / ☒ If yes, where vented? _____
- n. Is there a bathroom exhaust fan? Y / ☒ If yes, where vented? _____
- o. Is there a clothes dryer? Y / ☒ If yes, is it vented outside? Y / N
- p. Has there been a pesticide application? Y / ☒ When & Type? _____

Are there odors in the building?

Y / ☒

If yes, please describe: _____

Do any of the building occupants use solvents at work?

☒ / N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? Current usage limited to maintenance activities, additional historical usage present throughout facility _____

If yes, are their clothes washed at work?

Y / ☒

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)

Yes, use dry-cleaning infrequently (monthly or less)

Yes, work at a dry-cleaning service

☒ No

Unknown

Is there a radon mitigation system for the building/structure? Y / ☒ Date of Installation: _____

Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: ☒ Public Water Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: ☒ Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

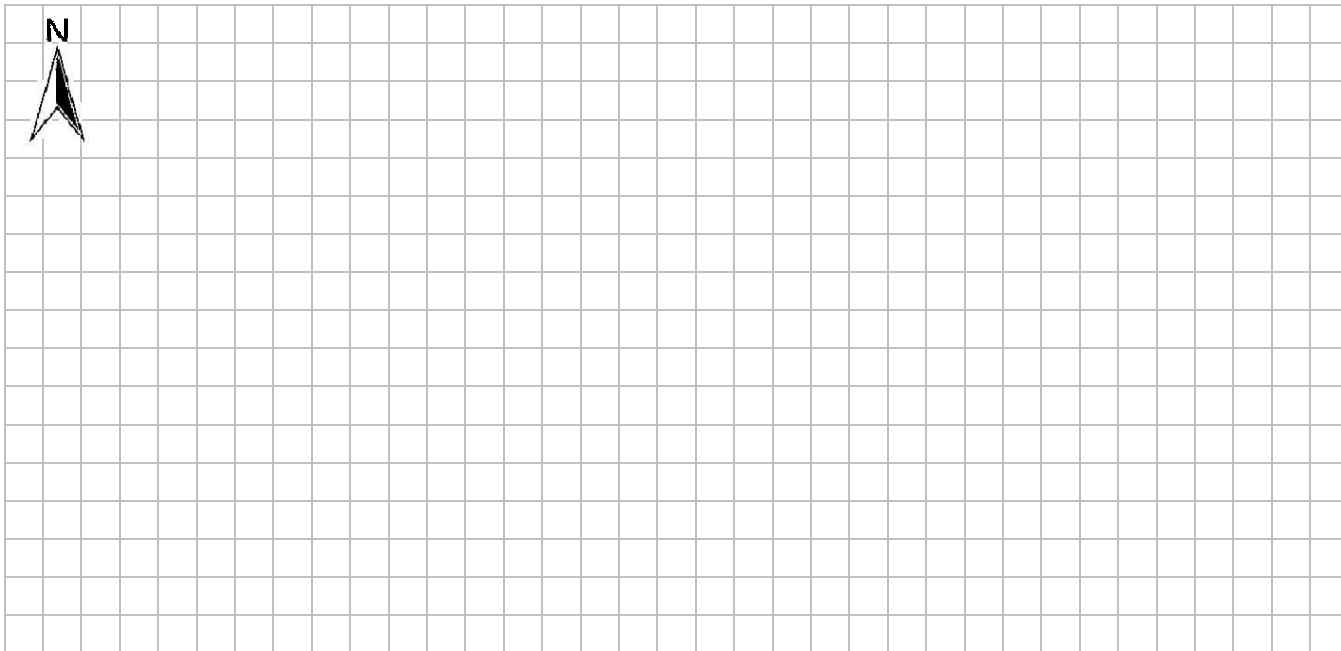
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

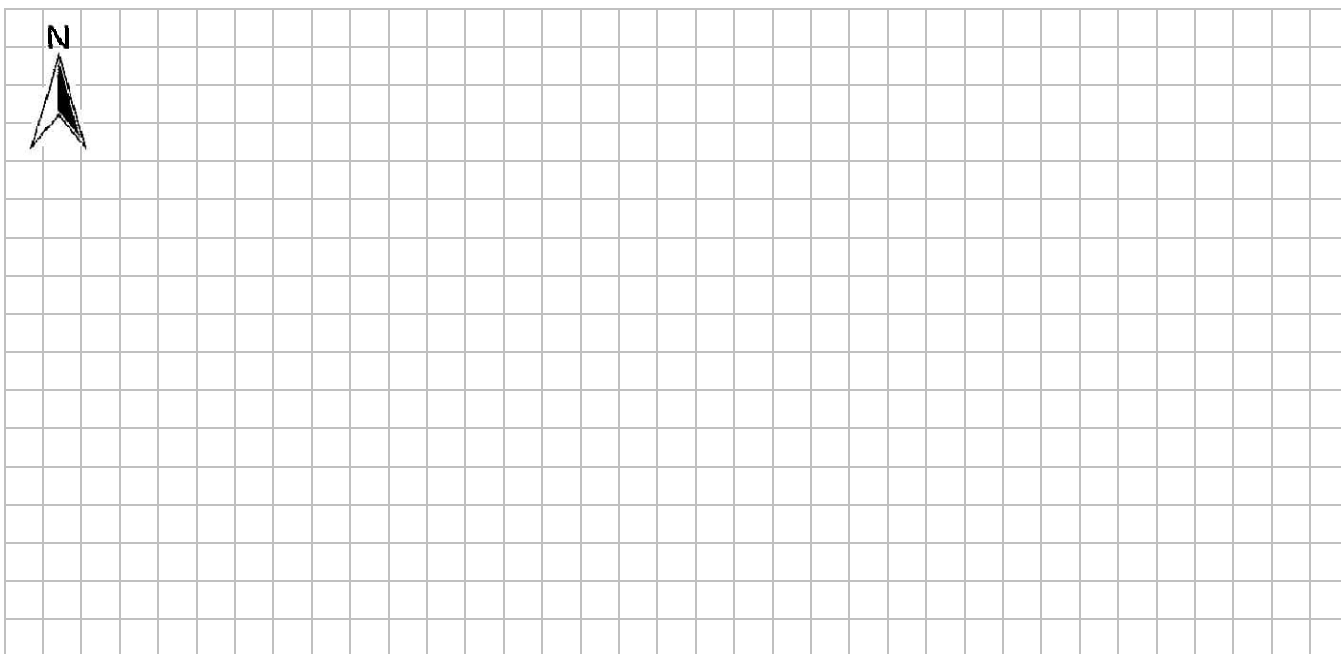
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Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

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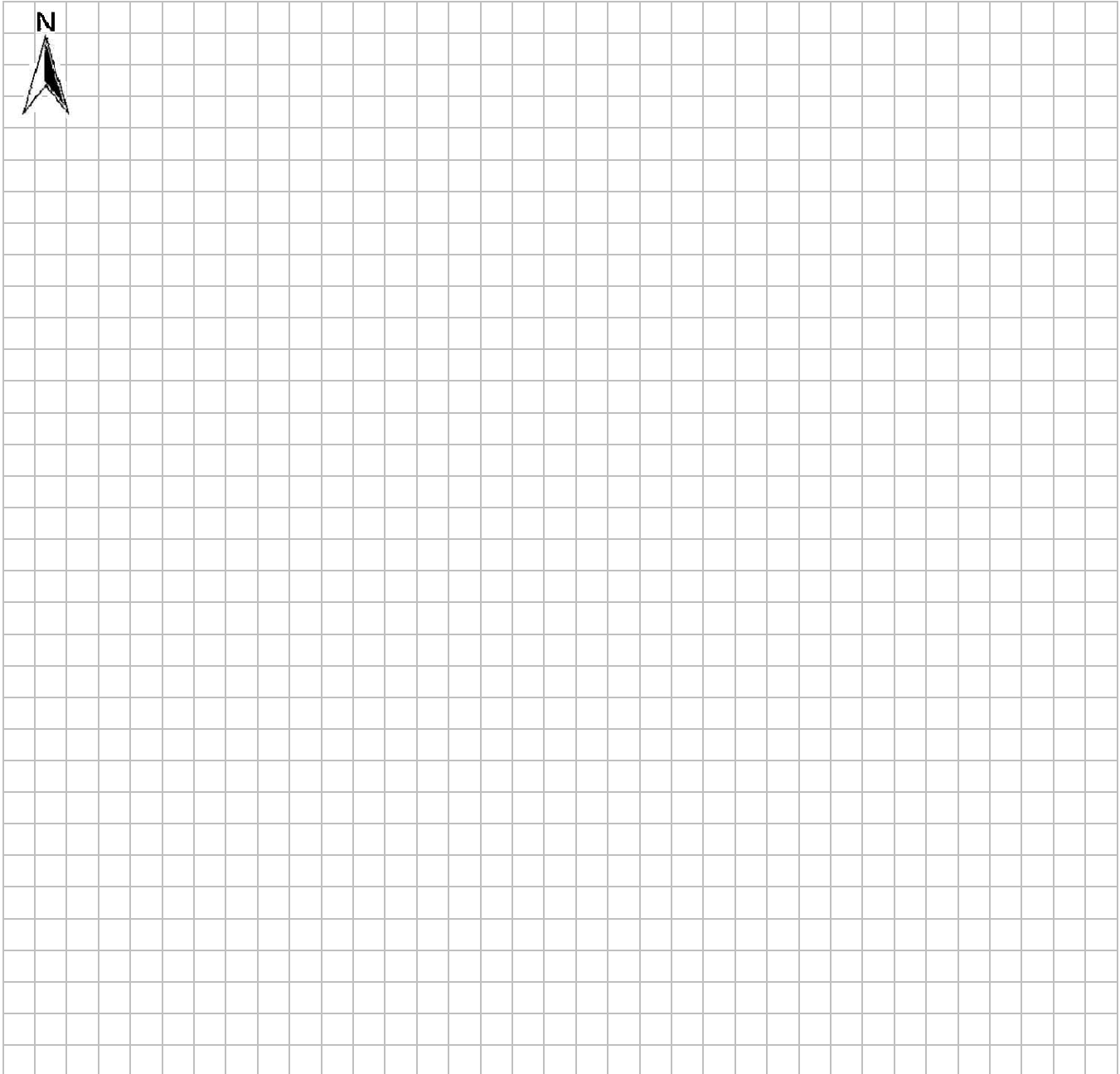
First Floor:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: RAE Systems ppbRAE 3000

List specific products found in the residence that have the potential to affect indoor air quality.

[illegible]

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

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**NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
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This form must be completed for each residence involved in indoor air testing.

Preparer's Name Dan Cummings Date/Time Prepared 3/13/2023

Preparer's Affiliation WSP Phone No. 571-329-1255

Purpose of Investigation Vapor Intrusion Assessment (2023)

1. OCCUPANT:

Interviewed: Y / ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ☐)

Interviewed: Y / ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
☒ Industrial

School
Church

Commercial/Multi-use
Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: _____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) Former manufacturing (automotive and power transmission components)

Does it include residences (i.e., multi-use)? Y / ☒ (N) If yes, how many? _____

Other characteristics:

Number of floors 1* Building age 75+

Is the building insulated? Y / ☒ (N) How air tight? Tight / ☒ (Average) / Not Tight

*Includes partial mezzanine over Buildings 9, 10, and 10A and small utility corridor/basement along northern wall which is connected Building 8.

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

N/A; airflow testing not evaluated during vapor intrusion assessment

Airflow between floors

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick steel
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- f. Foundation walls: poured block stone other _____
- g. Foundation walls: unsealed sealed sealed with _____
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y N
- k. Water in sump? Y / N not applicable

Basement/Lowest level depth below grade: ~6 (feet) *portion of southern wall below grade

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Utilities present including stormwater, water, steam, electric etc. Numerous slab and exterior wall penetrations for these utilities.

Exposed subgrade present from 2019 IRM sewer investigation.

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	Heat pump	Hot water baseboard
Space Heaters	<u>Steam radiation</u>	Radiant floor
Electric baseboard	Wood stove	Outdoor wood boiler Other _____

The primary type of fuel used is:

<u>Natural Gas</u>	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: _____

Boiler/furnace located in: Basement Outdoors Main Floor Other Building 18

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? Y / ☒ N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

Level **General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**

****No current usage/occupancy****

Basement	
1 st Floor	Dept 109 Joint Part (rollers, bushings, pins) (most recent historic usage)
2 nd Floor	
3 rd Floor	
4 th Floor	

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- a. Is there an attached garage? Y / ☒ N
- b. Does the garage have a separate heating unit? Y / N / ☒ NA
- c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / ☒ N / NA
Please specify

- d. Has the building ever had a fire? Y / ☒ N When?

- e. Is a kerosene or unvented gas space heater present? Y / ☒ N Where?

- f. Is there a workshop or hobby/craft area? Y / ☒ N Where & Type?

- g. Is there smoking in the building? Y / ☒ N How frequently?

- h. Have cleaning products been used recently? Y / ☒ N When & Type?

- i. Have cosmetic products been used recently? Y / ☒ N When & Type?

- j. Has painting/staining been done in the last 6 months? Y / ☒ Where & When? _____
- k. Is there new carpet, drapes or other textiles? Y / ☒ Where & When? _____
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- o. Is there a clothes dryer? Y / ☒ If yes, is it vented outside? Y / N
- p. Has there been a pesticide application? Y / ☒ When & Type? _____

Are there odors in the building?

Y / ☒

If yes, please describe: _____

Do any of the building occupants use solvents at work?

☒ / N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? Current usage limited to maintenance activities, additional historical usage present throughout facility _____

If yes, are their clothes washed at work?

Y / ☒

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)

Yes, use dry-cleaning infrequently (monthly or less)

Yes, work at a dry-cleaning service

☒

Unknown

Is there a radon mitigation system for the building/structure? Y / ☒ Date of Installation: _____

Is the system active or passive?

Active/Passive

9. WATER AND SEWAGE

Water Supply: ☒ Public Water Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: ☒ Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

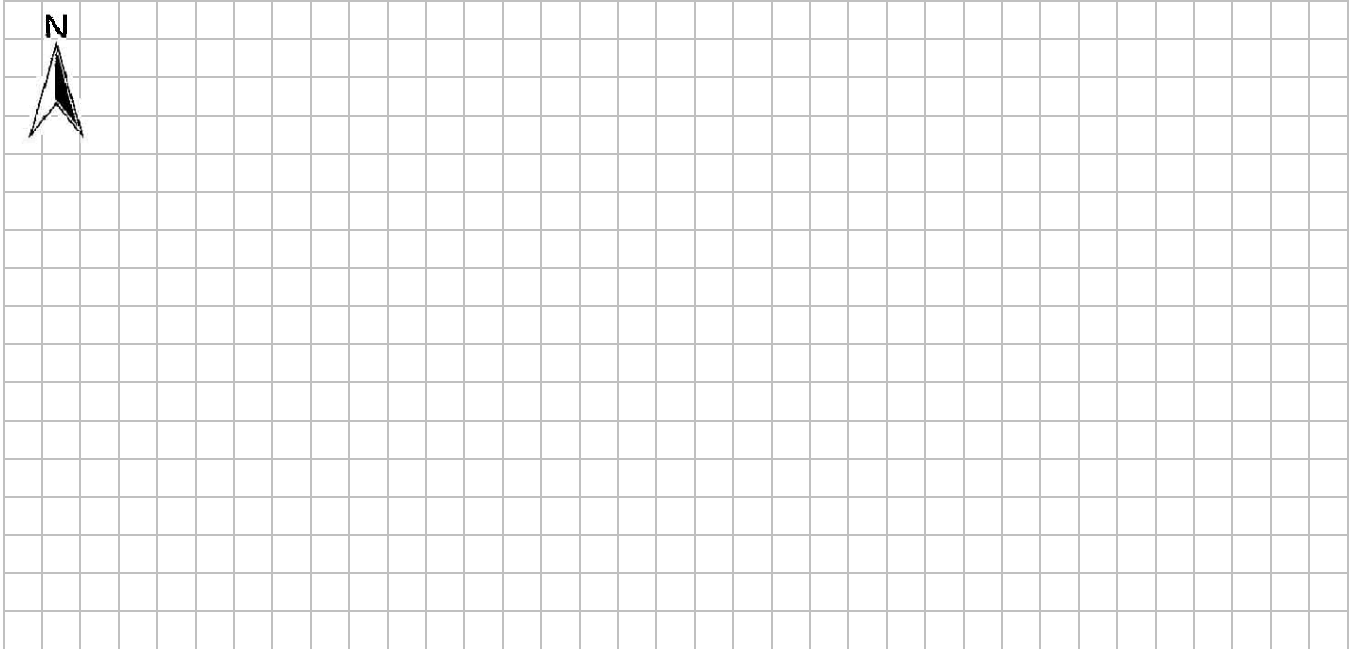
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

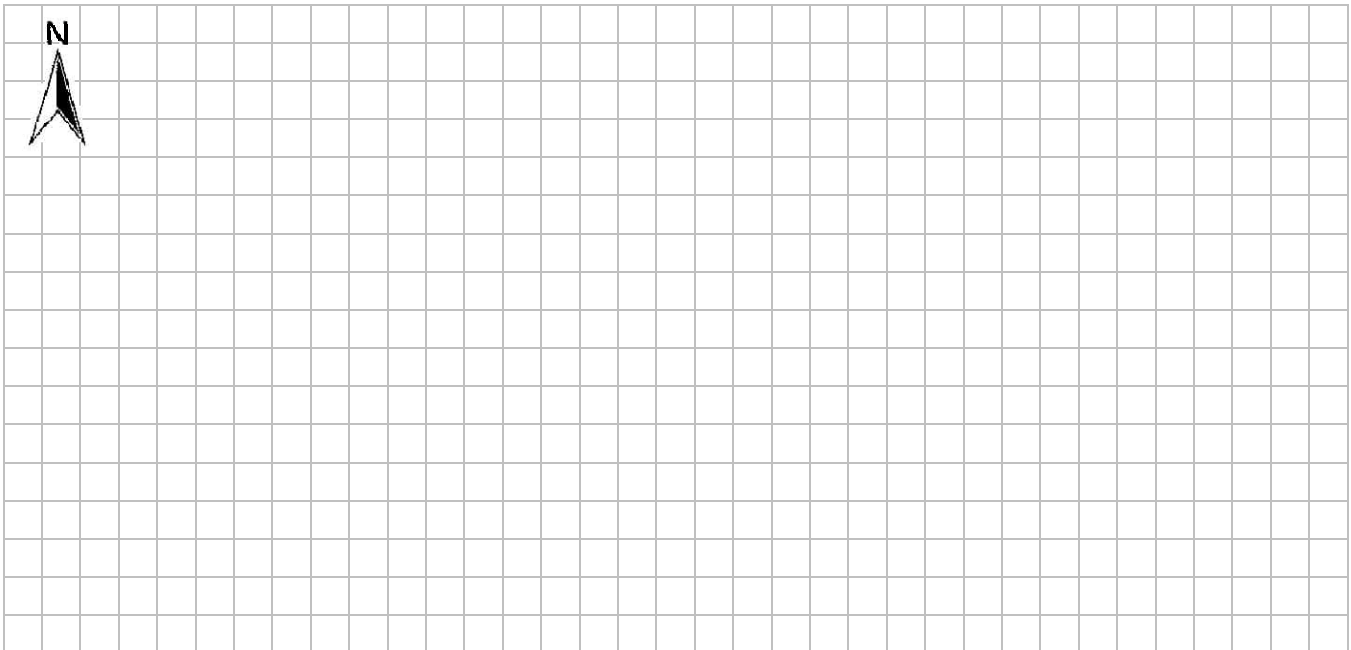
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



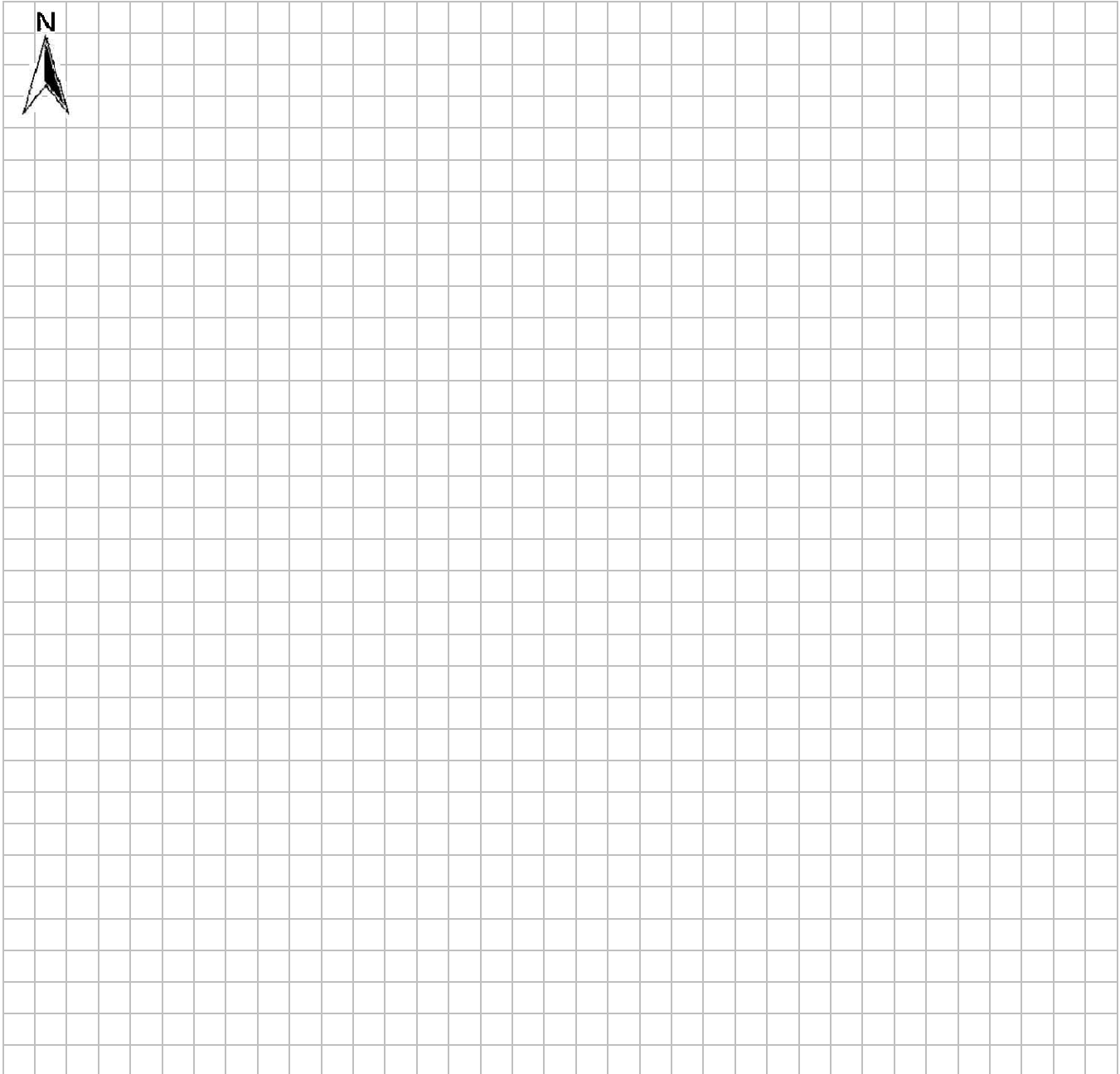
First Floor:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: RAE Systems ppbRAE 3000

List specific products found in the residence that have the potential to affect indoor air quality.

[illegible]

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

**** Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.**

**NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH**

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Dan Cummings Date/Time Prepared 3/13/2023

Preparer's Affiliation WSP Phone No. 571-329-1255

Purpose of Investigation Vapor Intrusion Assessment (2023)

1. OCCUPANT:

Interviewed: Y / ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ☐)

Interviewed: Y / ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
☒ Industrial

School
Church

Commercial/Multi-use
Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: _____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) Former manufacturing (automotive and power transmission components)

Does it include residences (i.e., multi-use)? Y / ☒ N If yes, how many? _____

Other characteristics:

Number of floors 1* Building age 75+

Is the building insulated? Y / ☒ N How air tight? Tight / ☒ Average / Not Tight

*Includes partial mezzanine over Buildings 9, 10, and 10A

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

N/A; airflow testing not evaluated during vapor intrusion assessment

Airflow between floors

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick steel
- b. Basement type: full crawlspace slab other _____
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: uncovered covered covered with _____
- e. Concrete floor: unsealed sealed sealed with _____
- f. Foundation walls: poured block stone other _____
- g. Foundation walls: unsealed sealed sealed with _____
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y (N)
- k. Water in sump? Y / N not applicable

Basement/Lowest level depth below grade: ~6 (feet) *portion of southern wall below grade

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Utilities present including stormwater, water, steam, electric etc. Numerous slab and exterior wall penetrations for these utilities.

Exposed subgrade present from 2019 IRM sewer investigation.

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	Heat pump	Hot water baseboard
Space Heaters	<u>Steam radiation</u>	Radiant floor
Electric baseboard	Wood stove	Outdoor wood boiler Other _____

The primary type of fuel used is:

<u>Natural Gas</u>	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: _____

Boiler/furnace located in: Basement Outdoors Main Floor Other Building 18

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? Y / ☒ N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom ☒ Almost Never

Level **General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**

****No current usage/occupancy****

Basement	
1 st Floor	Dept 109 Joint Part (rollers, bushings, pins) (most recent historic usage)
2 nd Floor	
3 rd Floor	
4 th Floor	

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- | | |
|--|---|
| a. Is there an attached garage? | Y / ☒ N |
| b. Does the garage have a separate heating unit? | Y / N / ☒ NA |
| c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) | Y / ☒ N / NA
Please specify <hr/> |
| d. Has the building ever had a fire? | Y / ☒ N When? <hr/> |
| e. Is a kerosene or unvented gas space heater present? | Y / ☒ N Where? <hr/> |
| f. Is there a workshop or hobby/craft area? | Y / ☒ N Where & Type? <hr/> |
| g. Is there smoking in the building? | Y / ☒ N How frequently? <hr/> |
| h. Have cleaning products been used recently? | Y / ☒ N When & Type? <hr/> |
| i. Have cosmetic products been used recently? | Y / ☒ N When & Type? <hr/> |

- j. Has painting/staining been done in the last 6 months? Y / ☒ Where & When? _____
- k. Is there new carpet, drapes or other textiles? Y / ☒ Where & When? _____
- l. Have air fresheners been used recently? Y / ☒ When & Type? _____
- m. Is there a kitchen exhaust fan? Y / ☒ If yes, where vented? _____
- n. Is there a bathroom exhaust fan? Y / ☒ If yes, where vented? _____
- o. Is there a clothes dryer? Y / ☒ If yes, is it vented outside? Y / N
- p. Has there been a pesticide application? Y / ☒ When & Type? _____

Are there odors in the building?

Y / ☒

If yes, please describe: _____

Do any of the building occupants use solvents at work?

☒ / N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? Current usage limited to maintenance activities, additional historical usage present throughout facility _____

If yes, are their clothes washed at work?

Y / ☒

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)

Yes, use dry-cleaning infrequently (monthly or less)

Yes, work at a dry-cleaning service

☒

Unknown

Is there a radon mitigation system for the building/structure? Y / ☒ Date of Installation: _____

Is the system active or passive?

Active/Passive

9. WATER AND SEWAGE

Water Supply: ☒ Public Water Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: ☒ Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

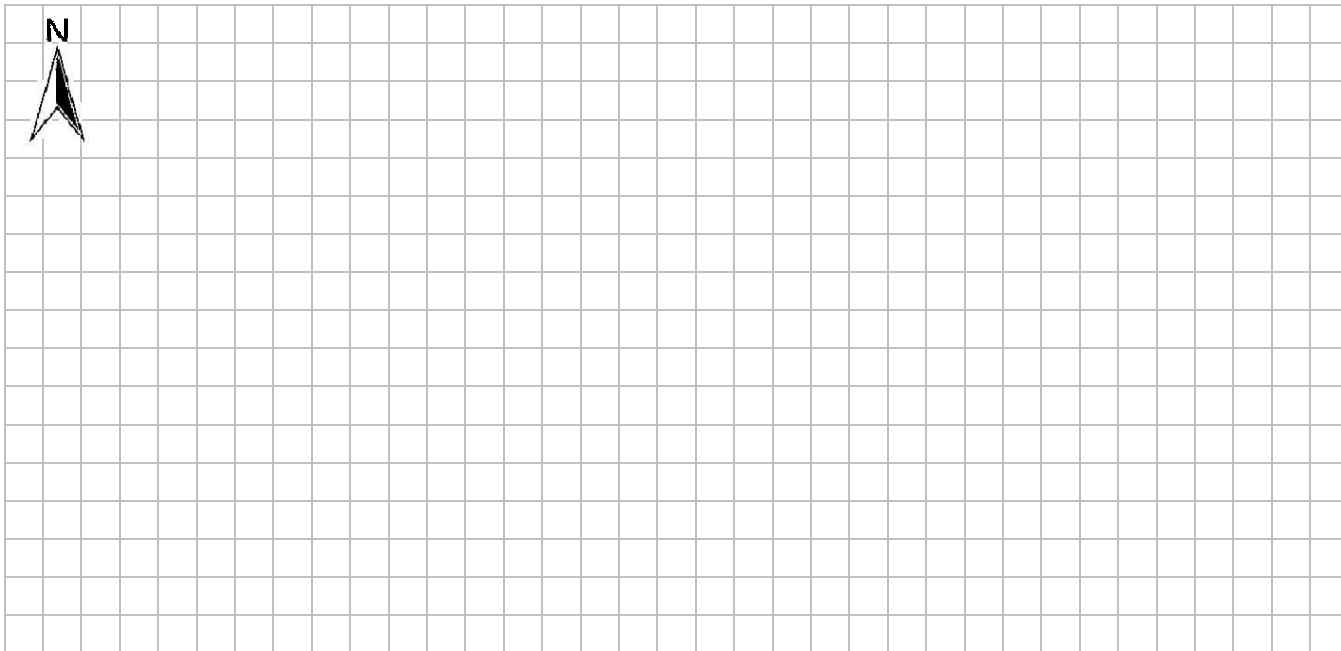
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

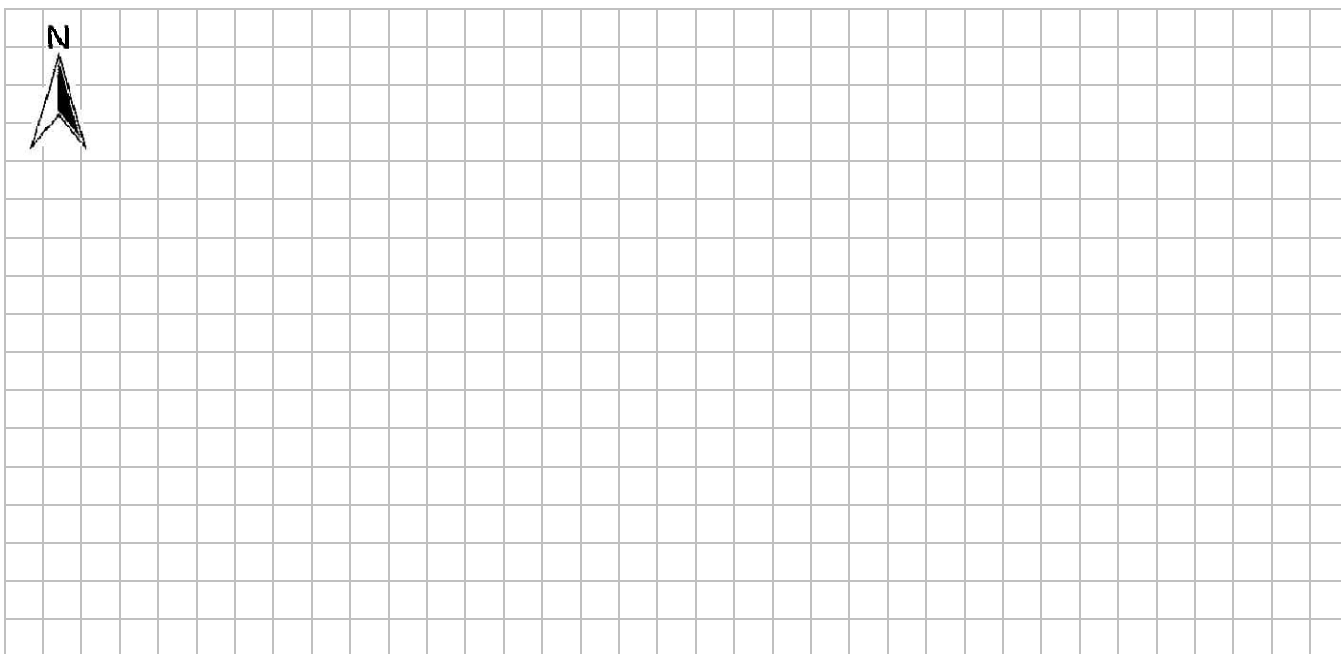
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



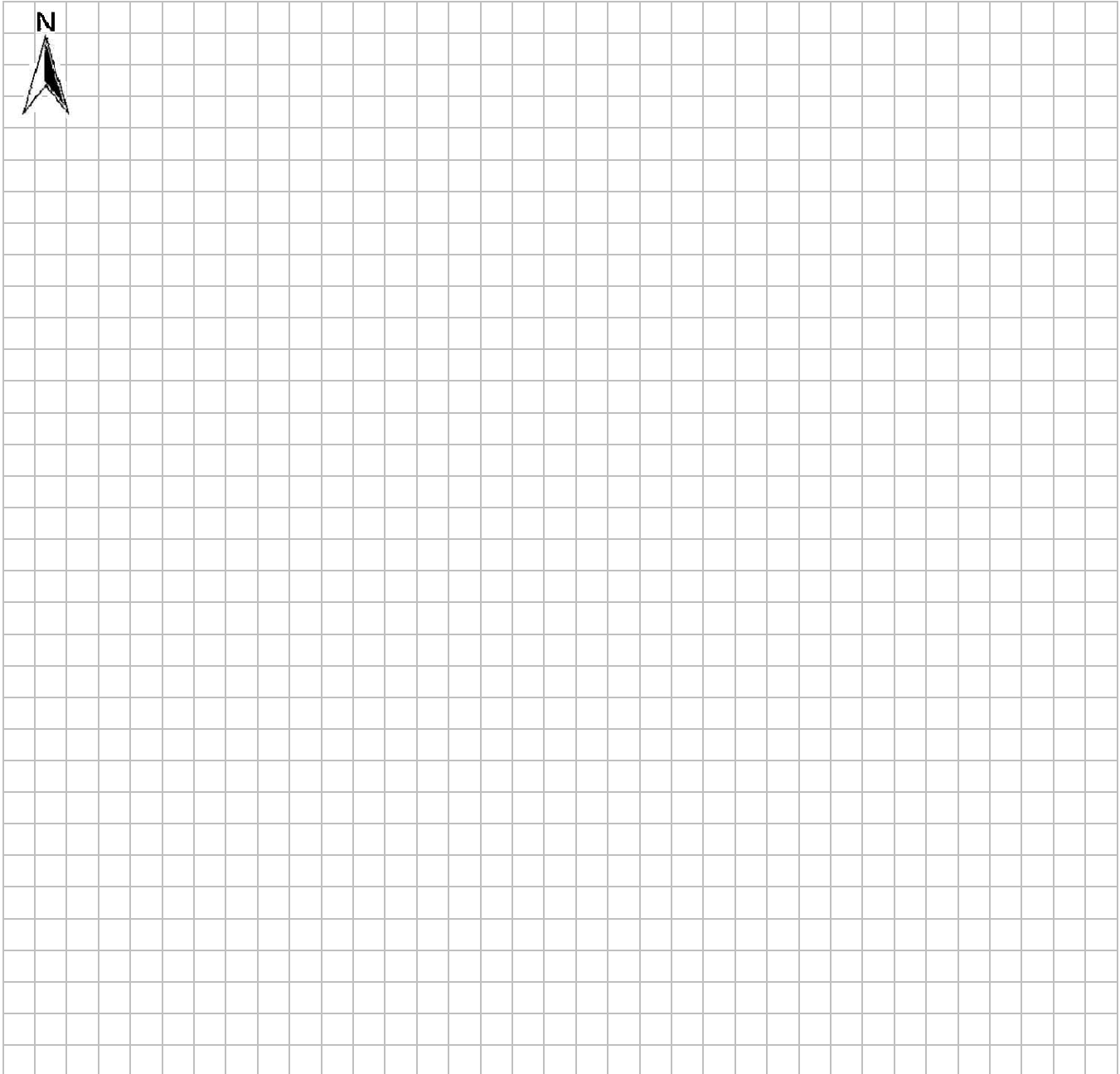
First Floor:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: RAE Systems ppbRAE 3000

List specific products found in the residence that have the potential to affect indoor air quality.

[illegible]

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

**** Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.**

**NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH**

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Dan Cummings Date/Time Prepared 3/13/2023

Preparer's Affiliation WSP Phone No. 571-329-1255

Purpose of Investigation Vapor Intrusion Assessment (2023)

1. OCCUPANT:

Interviewed: Y / ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ☐)

Interviewed: Y / ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
☒ Industrial

School
Church

Commercial/Multi-use
Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: _____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) Former manufacturing (automotive and power transmission components)

Does it include residences (i.e., multi-use)? Y / ☒ (N) If yes, how many? _____

Other characteristics:

Number of floors 2

Building age 100+

Is the building insulated? Y / ☒ (N)

How air tight? Tight / ☒ (Average) / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

N/A; airflow testing not evaluated during vapor intrusion assessment

Airflow between floors

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick steel/iron
- b. Basement type: full crawlspace slab other _____
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: uncovered covered covered with _____
- e. Concrete floor: unsealed sealed sealed with _____
- f. Foundation walls: poured block stone other bsmt utility corridors brick
- g. Foundation walls: unsealed sealed sealed with _____
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y / (N)
- k. Water in sump? Y / N / not applicable

Basement/Lowest level depth below grade: 14.25 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Utilities present including stormwater, sewer, water, air, steam, electric etc. Numerous slab and basement exterior wall penetrations present for these utilities.

Former equipment pits and powerhouse process pits present throughout basement.

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	<u>Heat pump</u>	Hot water baseboard
Space Heaters	<u>Steam radiation</u>	Radiant floor
Electric baseboard	Wood stove	Outdoor wood boiler Other _____

The primary type of fuel used is:

<u>Natural Gas</u>	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: _____

Boiler/furnace located in: Basement Outdoors Main Floor Other Building 18

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present?

Y / ☒ N

No overhead ducts present; basement-level former air flues present now used for utility corridors between Building 18 and Buildings 2, 3, 4

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied?

Full-time

Occasionally

Seldom

☒ Almost Never

Level

General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

****Current usage/occupancy on 1st and basement levels****

Basement

Boiler operation and maintenance

1st Floor

Boiler operation and maintenance, electrical system distribution

2nd Floor

3rd Floor

4th Floor

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage?

Y / ☒ N

b. Does the garage have a separate heating unit?

Y / N / ☒ NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car)

Y / ☒ N / NA

Please specify _____

d. Has the building ever had a fire?

Y / ☒ N When? _____

e. Is a kerosene or unvented gas space heater present?

Y / ☒ N Where? _____

f. Is there a workshop or hobby/craft area?

☒ Y / N Where & Type? 1st floor

g. Is there smoking in the building?

Y / ☒ N How frequently? _____

h. Have cleaning products been used recently?

Y / ☒ N When & Type? _____

i. Have cosmetic products been used recently?

Y / ☒ N When & Type? _____

- j. Has painting/staining been done in the last 6 months? Y / ☒ Where & When? _____
- k. Is there new carpet, drapes or other textiles? Y / ☒ Where & When? _____
- l. Have air fresheners been used recently? Y / ☒ When & Type? _____
- m. Is there a kitchen exhaust fan? Y / ☒ If yes, where vented? _____
- n. Is there a bathroom exhaust fan? Y / ☒ If yes, where vented? _____
- o. Is there a clothes dryer? Y / ☒ If yes, is it vented outside? Y / N
- p. Has there been a pesticide application? Y / ☒ When & Type? _____

Are there odors in the building?

Y / ☒

If yes, please describe: _____

Do any of the building occupants use solvents at work?

☒ / N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? Current usage limited to maintenance activities, additional historical usage present throughout facility _____

If yes, are their clothes washed at work?

Y / ☒

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)

Yes, use dry-cleaning infrequently (monthly or less)

Yes, work at a dry-cleaning service

☒

Unknown

Is there a radon mitigation system for the building/structure? Y / ☒ Date of Installation: _____

Is the system active or passive?

Active/Passive

9. WATER AND SEWAGE

Water Supply: ☒ Public Water Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: ☒ Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

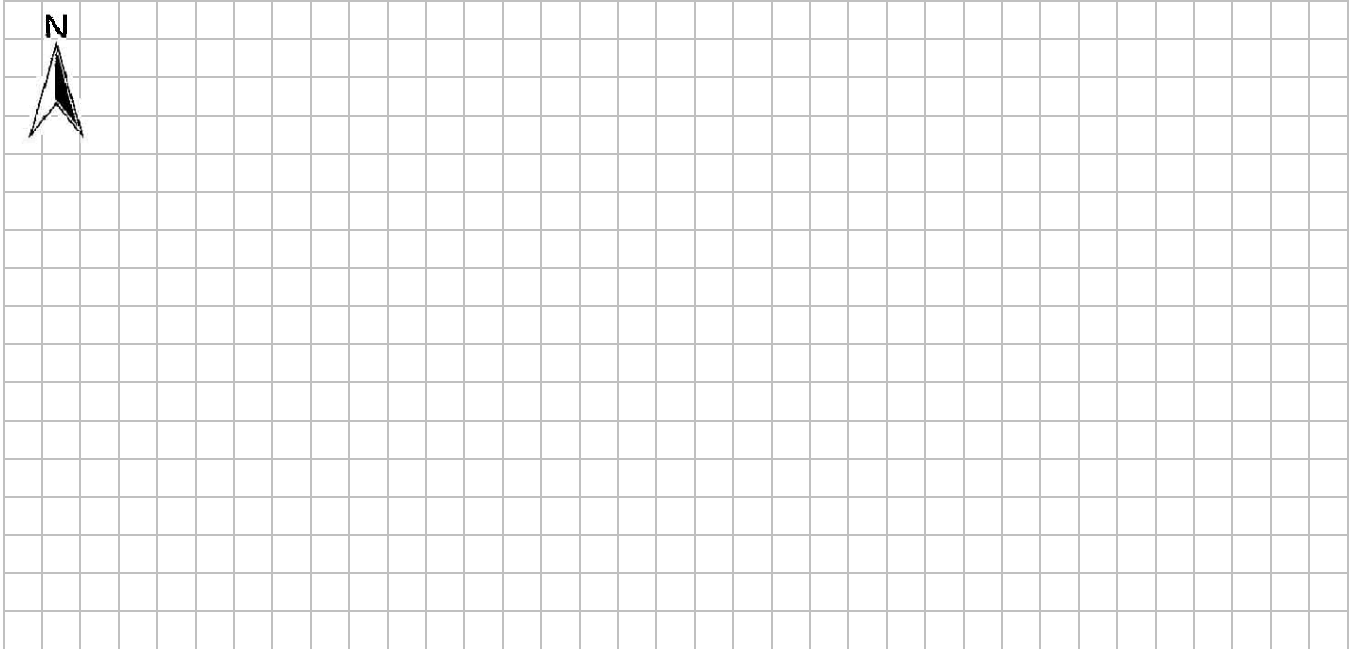
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

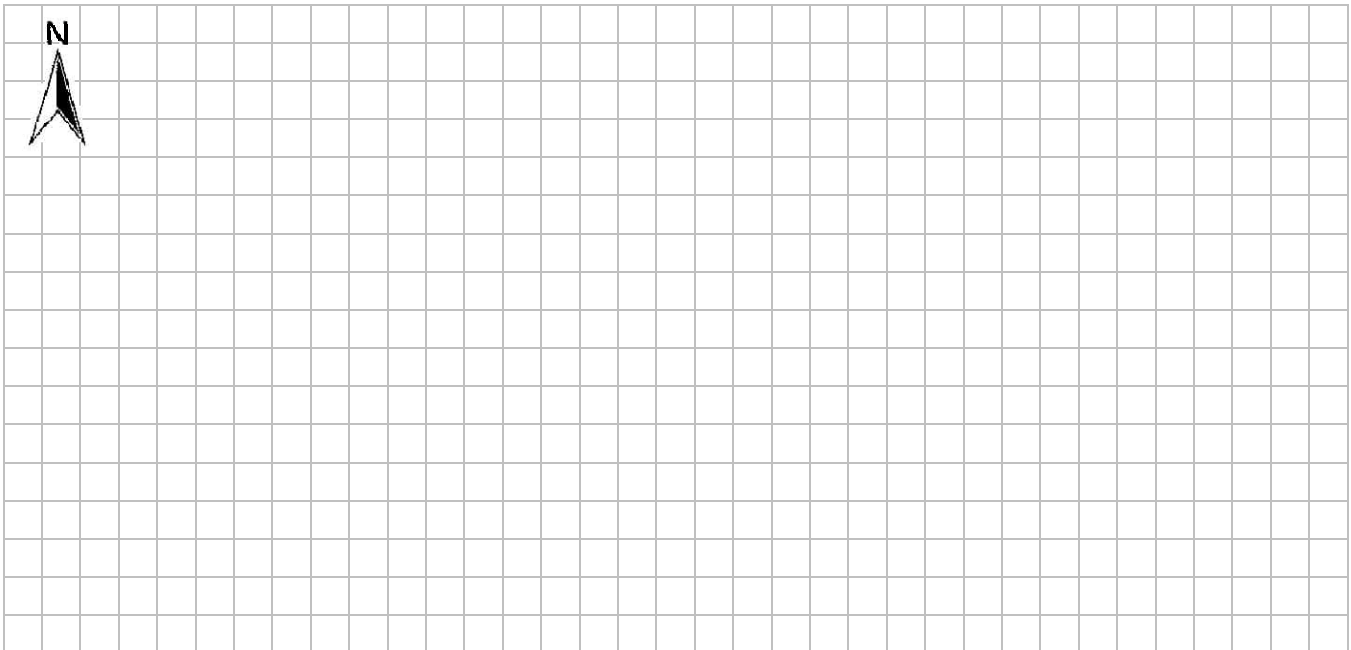
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Basement:



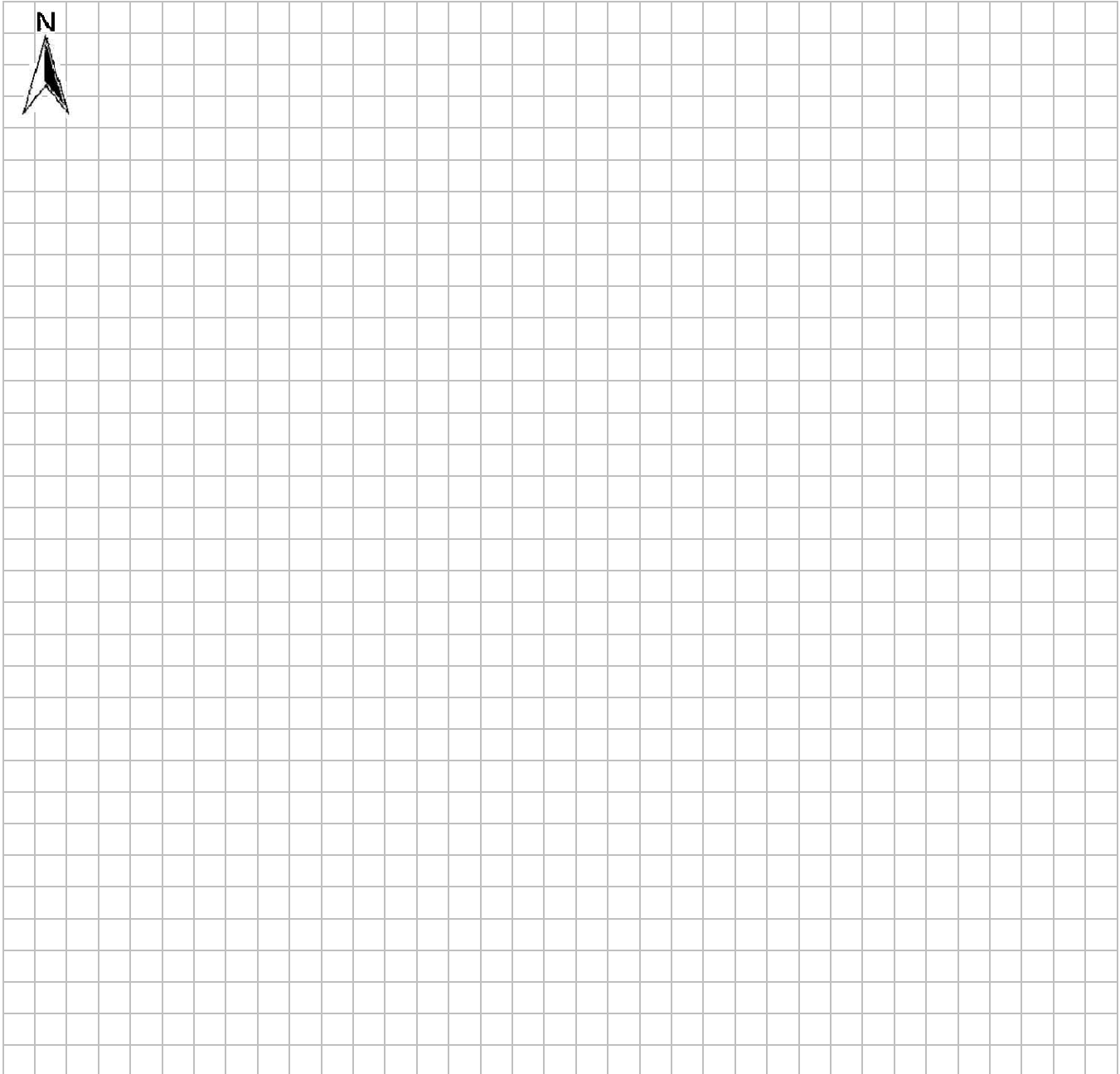
First Floor:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: RAE Systems ppbRAE 3000

List specific products found in the residence that have the potential to affect indoor air quality.

[illegible]

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

**** Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.**

**NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
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This form must be completed for each residence involved in indoor air testing.

Preparer's Name Dan Cummings Date/Time Prepared 3/13/2023

Preparer's Affiliation WSP Phone No. 571-329-1255

Purpose of Investigation Vapor Intrusion Assessment (2023)

1. OCCUPANT:

Interviewed: Y / ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ☐)

Interviewed: Y / ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
☒ Industrial

School
Church

Commercial/Multi-use
Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: _____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) Former manufacturing (automotive and power transmission components)

Does it include residences (i.e., multi-use)? Y / ☒ N If yes, how many? _____

Other characteristics:

Number of floors 4

Building age 50+

Is the building insulated? ☒ Y / N

How air tight? ☒ Tight / Average / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

N/A; airflow testing not evaluated during vapor intrusion assessment

Airflow between floors

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: full crawlspace slab other _____
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: uncovered covered covered with linoleum flooring in offices
- e. Concrete floor: unsealed sealed sealed with paint _____
- f. Foundation walls: poured block stone ** other _____
- g. Foundation walls: unsealed sealed sealed with _____
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y / (N)
- k. Water in sump? Y / N / not applicable

**Stone foundation wall present in basement behind poured concrete wall on south side of building.

Basement/Lowest level depth below grade: 6 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Utilities present including stormwater, sewer, water, electric etc. Numerous slab, interior and exterior wall penetrations present for these utilities. Small floor cracks and penetrations from past investigations.

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

<u>Hot air circulation</u>	Heat pump	Hot water baseboard
Space Heaters	Steam radiation	Radiant floor
Electric baseboard	Wood stove	Outdoor wood boiler Other _____

The primary type of fuel used is:

<u>Natural Gas</u>	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: _____

Boiler/furnace located in: Basement Outdoors Main Floor Other Building 18

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? ☒ Y / N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

Ductwork present above drop ceiling in office areas

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

Level **General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**

****No current usage/occupancy****

Basement	Most recent historic usage not known
1 st Floor	Most recent historic usage not known
2 nd Floor	Most recent historic usage not known
3 rd Floor	Most recent historic usage not known
4 th Floor	

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- a. Is there an attached garage? Y / ☒ N
- b. Does the garage have a separate heating unit? Y / N / ☒ NA
- c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / ☒ N / NA
Please specify _____
- d. Has the building ever had a fire? Y / ☒ N When? _____
- e. Is a kerosene or unvented gas space heater present? Y / ☒ N Where? _____
- f. Is there a workshop or hobby/craft area? Y / ☒ N Where & Type? _____
- g. Is there smoking in the building? Y / ☒ N How frequently? _____
- h. Have cleaning products been used recently? Y / ☒ N When & Type? _____
- i. Have cosmetic products been used recently? Y / ☒ N When & Type? _____

- j. Has painting/staining been done in the last 6 months? Y / ☒ Where & When? _____
- k. Is there new carpet, drapes or other textiles? Y / ☒ Where & When? _____
- l. Have air fresheners been used recently? Y / ☒ When & Type? _____
- m. Is there a kitchen exhaust fan? Y / ☒ If yes, where vented? _____
- n. Is there a bathroom exhaust fan? Y / ☒ If yes, where vented? _____
- o. Is there a clothes dryer? Y / ☒ If yes, is it vented outside? Y / N
- p. Has there been a pesticide application? Y / ☒ When & Type? _____

Are there odors in the building?

Y / ☒

If yes, please describe: _____

Do any of the building occupants use solvents at work?

☒ / N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? Current usage limited to maintenance activities, additional historical usage present throughout facility _____

If yes, are their clothes washed at work?

Y / ☒

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)

Yes, use dry-cleaning infrequently (monthly or less)

Yes, work at a dry-cleaning service

☒

Unknown

Is there a radon mitigation system for the building/structure? Y / ☒ Date of Installation: _____

Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: ☒ Public Water Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: ☒ Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

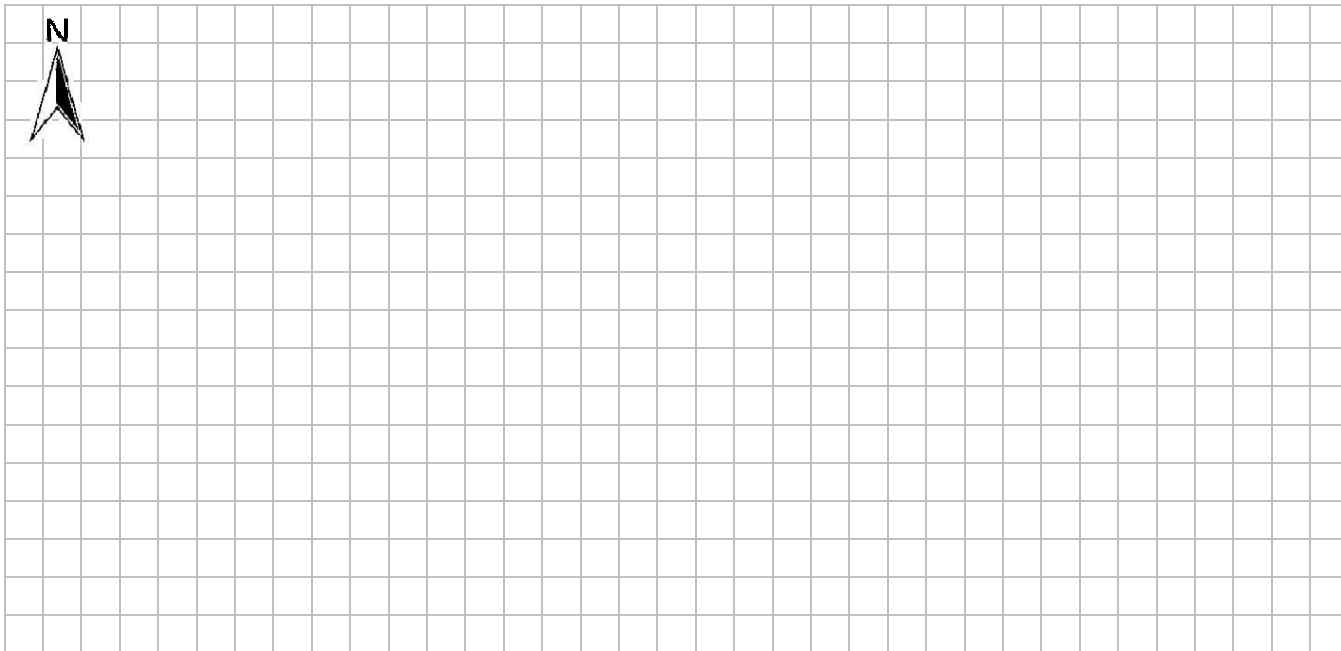
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

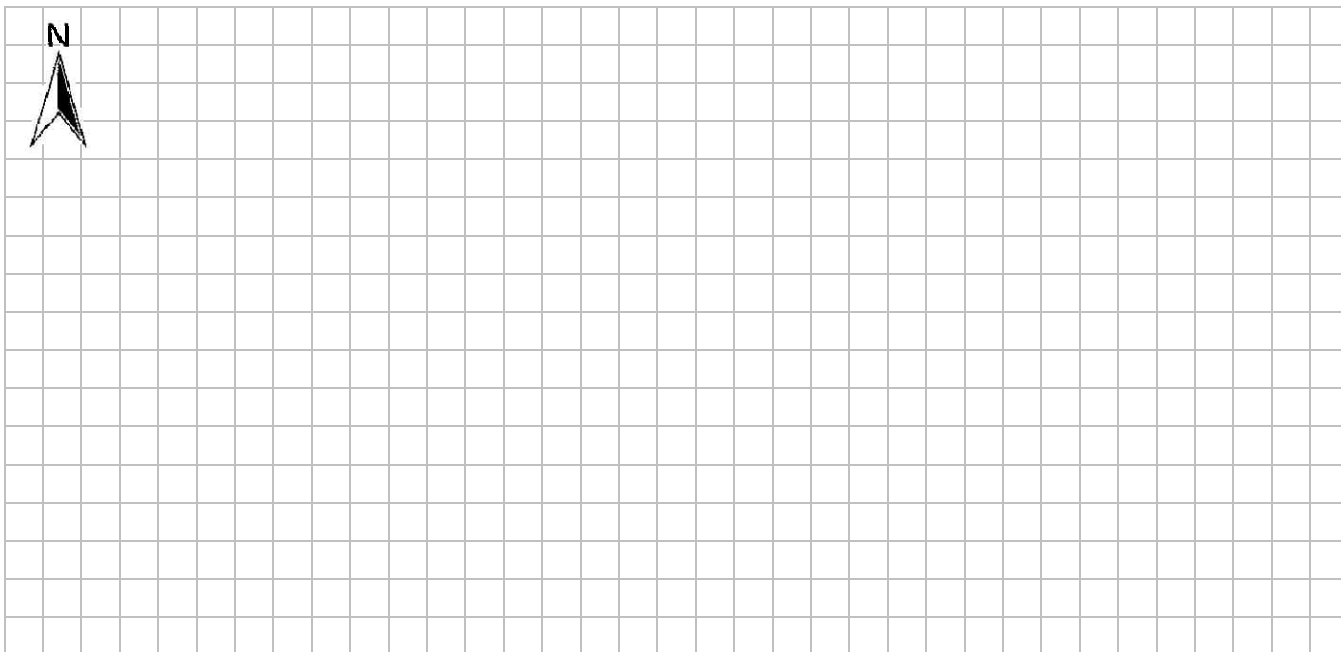
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Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



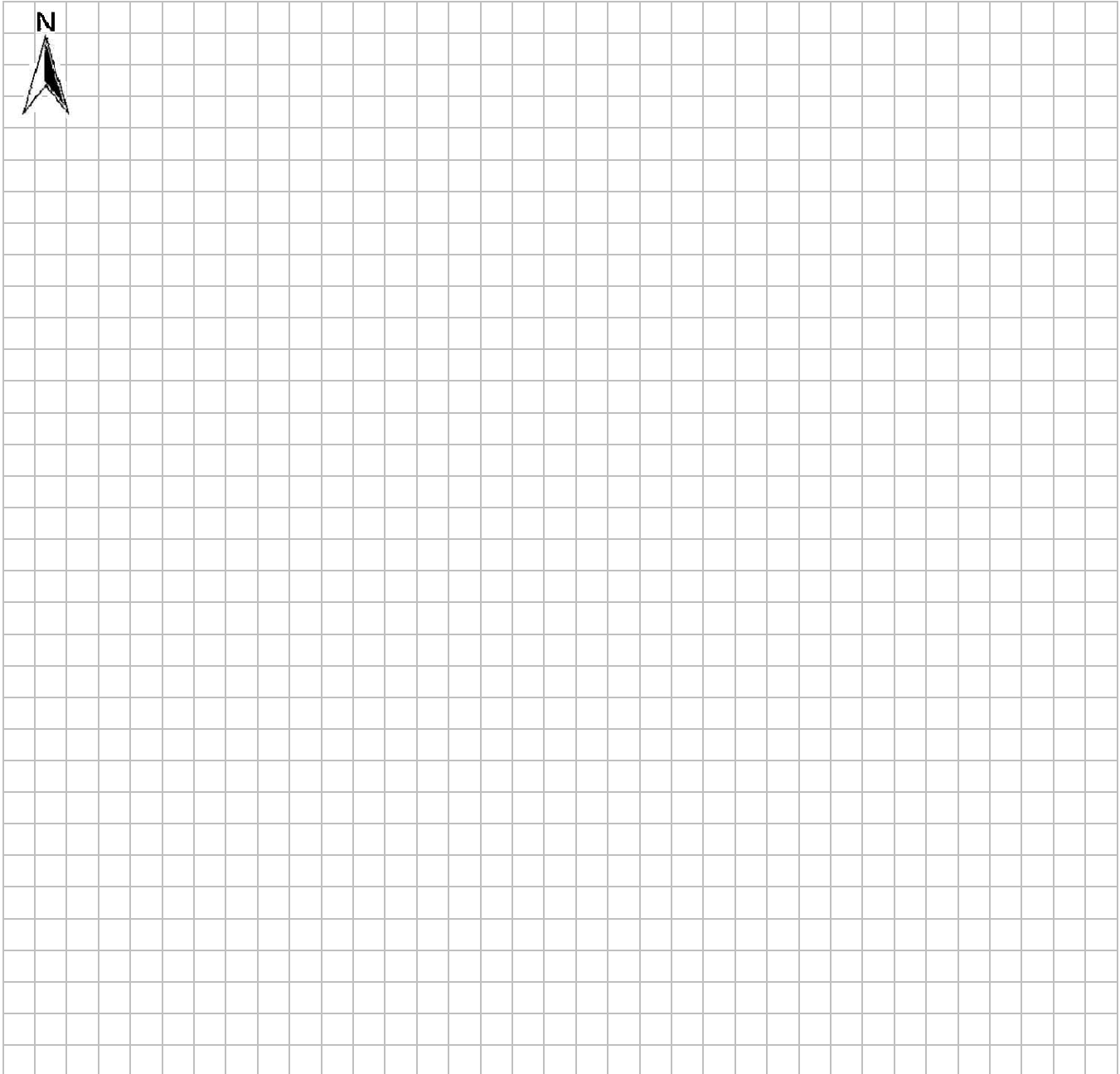
First Floor:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: RAE Systems ppbRAE 3000

List specific products found in the residence that have the potential to affect indoor air quality.

[illegible]

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

**** Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.**

**NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH**

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Dan Cummings Date/Time Prepared 3/13/2023

Preparer's Affiliation WSP Phone No. 571-329-1255

Purpose of Investigation Vapor Intrusion Assessment (2023)

1. OCCUPANT:

Interviewed: Y / ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ☐)

Interviewed: Y / ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
☒ Industrial

School
Church

Commercial/Multi-use
Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: _____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) Former manufacturing (automotive and power transmission components)

Does it include residences (i.e., multi-use)? Y / ☒ (N) If yes, how many? _____

Other characteristics:

Number of floors 5

Building age 75+

Is the building insulated? Y / ☒ (N)

How air tight? Tight / ☒ (Average) / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

N/A; airflow testing not evaluated during vapor intrusion assessment

Airflow between floors

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: full crawlspace slab other partial
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: uncovered covered covered with linoleum flooring in offices
- e. Concrete floor: unsealed sealed sealed with _____
- f. Foundation walls: poured block stone other CMU exterior wall at grade
- g. Foundation walls: unsealed sealed sealed with _____
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y / (N)
- k. Water in sump? Y / N / not applicable

Basement/Lowest level depth below grade: ~12 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Utilities present including stormwater, water, electric etc. Numerous slab, interior and exterior penetrations present for these utilities.

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary) ****Building not currently heated****

Hot air circulation	Heat pump	Hot water baseboard
Space Heaters	Steam radiation	Radiant floor
Electric baseboard	Wood stove	Outdoor wood boiler
		Other _____

The primary type of fuel used is:

Natural Gas	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: _____

Boiler/furnace located in: Basement Outdoors Main Floor Other Building 18

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? Y / ☒ N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom ☒ Almost Never

Level **General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**

****No current usage/occupancy****

Basement	Most recent historic usage not known
1 st Floor	Most recent historic usage not known
2 nd Floor	Most recent historic usage not known
3 rd Floor	Most recent historic usage not known
4 th Floor	Most recent historic usage not known

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- a. Is there an attached garage? Y / ☒ N
- b. Does the garage have a separate heating unit? Y / N / ☒ NA
- c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / ☒ N / NA
Please specify _____
- d. Has the building ever had a fire? Y / ☒ N When? _____
- e. Is a kerosene or unvented gas space heater present? Y / ☒ N Where? _____
- f. Is there a workshop or hobby/craft area? Y / ☒ N Where & Type? _____
- g. Is there smoking in the building? Y / ☒ N How frequently? _____
- h. Have cleaning products been used recently? Y / ☒ N When & Type? _____
- i. Have cosmetic products been used recently? Y / ☒ N When & Type? _____

- j. Has painting/staining been done in the last 6 months? Y / ☒ Where & When? _____
- k. Is there new carpet, drapes or other textiles? Y / ☒ Where & When? _____
- l. Have air fresheners been used recently? Y / ☒ When & Type? _____
- m. Is there a kitchen exhaust fan? Y / ☒ If yes, where vented? _____
- n. Is there a bathroom exhaust fan? Y / ☒ If yes, where vented? _____
- o. Is there a clothes dryer? Y / ☒ If yes, is it vented outside? Y / N
- p. Has there been a pesticide application? Y / ☒ When & Type? _____

Are there odors in the building?

Y / ☒

If yes, please describe: _____

Do any of the building occupants use solvents at work?

☒ / N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? Current usage limited to maintenance activities, additional historical usage present throughout facility _____

If yes, are their clothes washed at work?

Y / ☒

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)

Yes, use dry-cleaning infrequently (monthly or less)

Yes, work at a dry-cleaning service

☒

Unknown

Is there a radon mitigation system for the building/structure? Y / ☒ Date of Installation: _____

Is the system active or passive?

Active/Passive

9. WATER AND SEWAGE

Water Supply: ☒ Public Water Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: ☒ Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

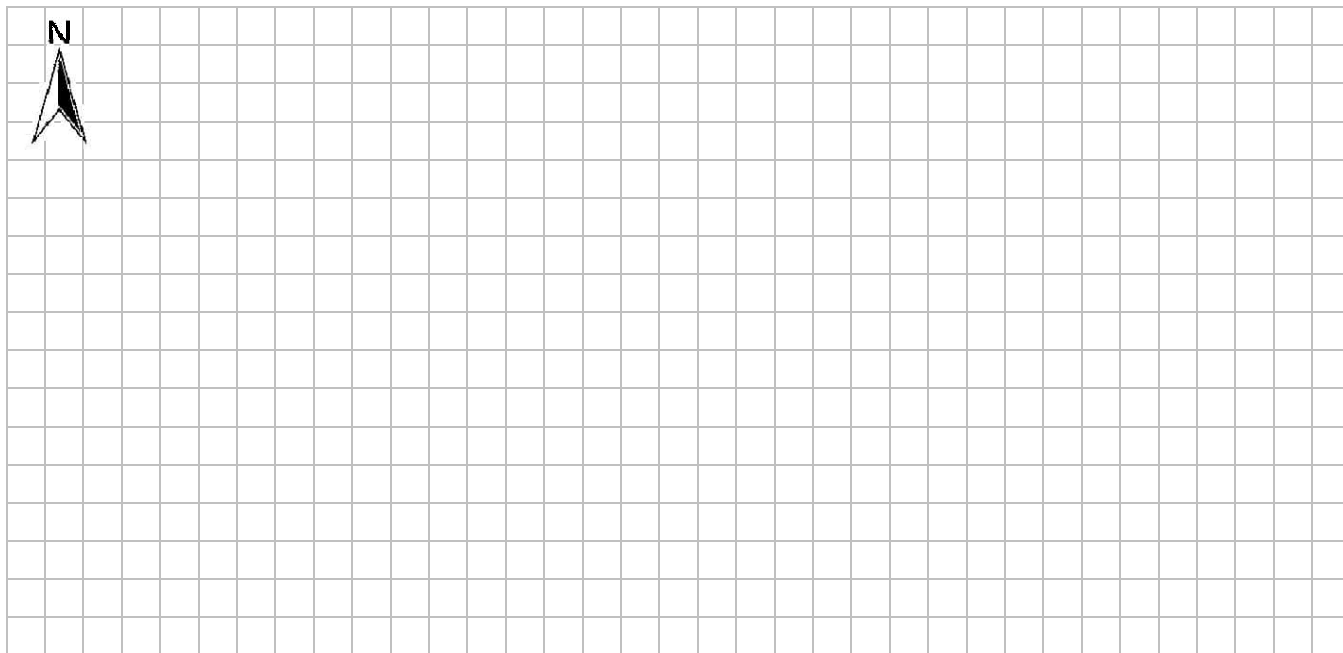
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

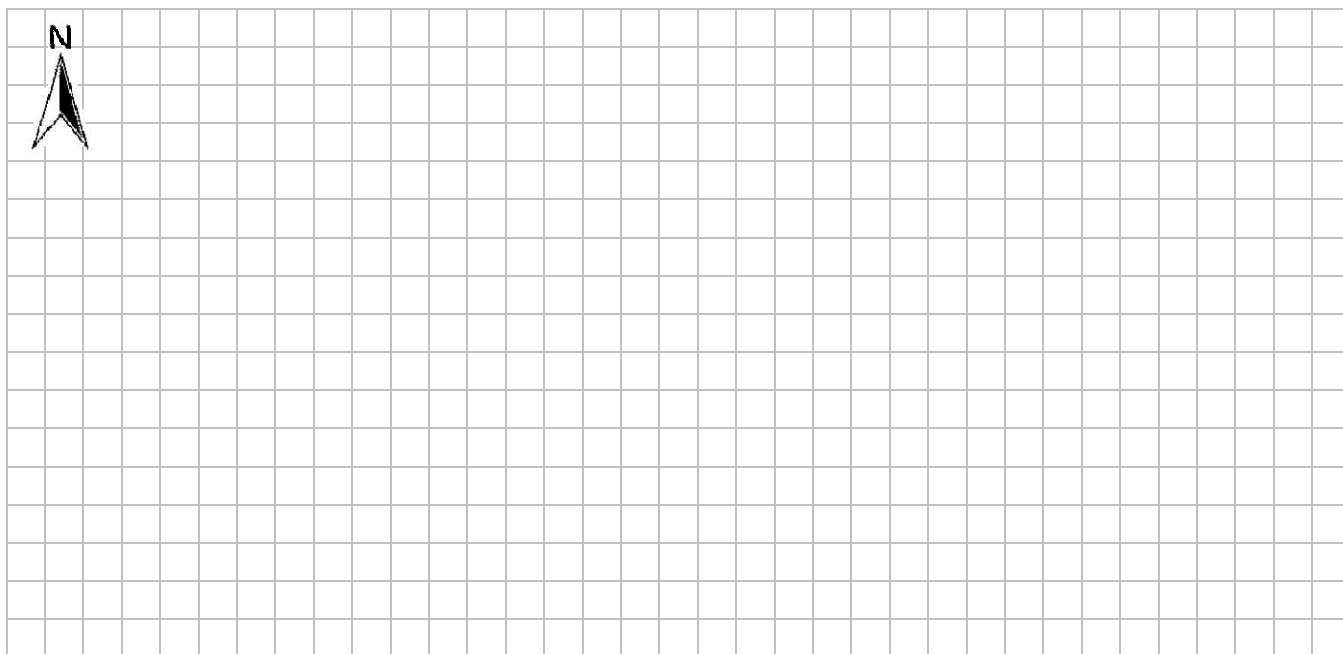
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



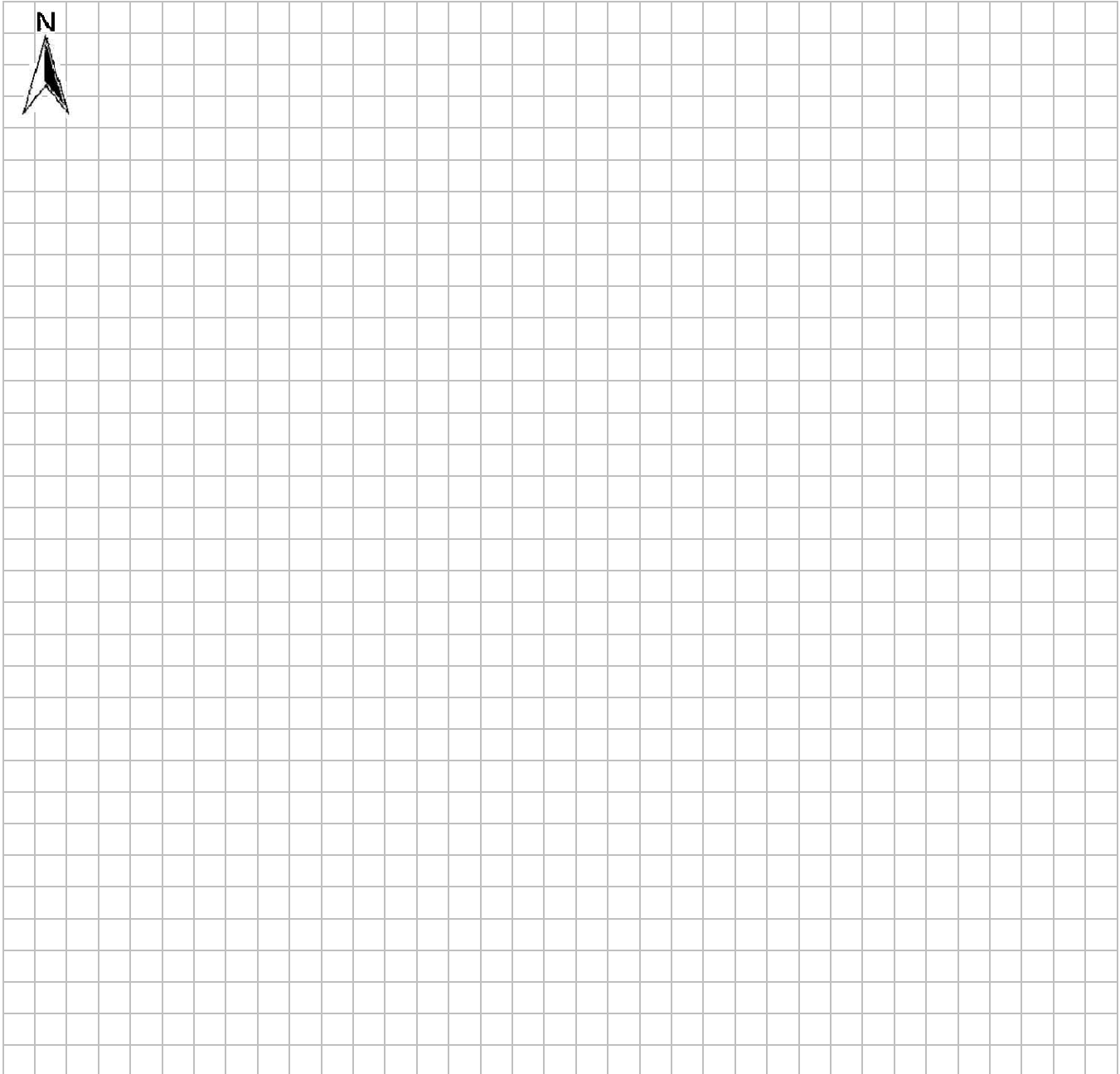
First Floor:



12. OUTDOOR PLOT

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Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: RAE Systems ppbRAE 3000

List specific products found in the residence that have the potential to affect indoor air quality.

[illegible]

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

**** Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.**

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1. OCCUPANT:

Interviewed: Y / ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ☐)

Interviewed: Y / ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
☒ Industrial

School
Church

Commercial/Multi-use
Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: _____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) Former manufacturing (automotive and power transmission components)

Does it include residences (i.e., multi-use)? Y / ☒ N If yes, how many? _____

Other characteristics:

Number of floors 2

Building age 50+

Is the building insulated? ☒ Y / N

How air tight? Tight ☒ Average / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

N/A; airflow testing not evaluated during vapor intrusion assessment

Airflow between floors

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick steel
- b. Basement type: full crawlspace slab other partial
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: uncovered covered covered with _____
- e. Concrete floor: unsealed sealed sealed with _____
- f. Foundation walls: poured block stone other CMU exterior wall at grade
- g. Foundation walls: unsealed sealed sealed with _____
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y N
- k. Water in sump? Y / N not applicable

Basement/Lowest level depth below grade: ~25 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Utilities present including stormwater, sewer, natural gas, electric etc. Numerous slab, exterior and interior wall penetrations for these utilities.

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

- | | | |
|----------------------------|-----------------|---------------------------------|
| <u>Hot air circulation</u> | Heat pump | Hot water baseboard |
| Space Heaters | Steam radiation | Radiant floor |
| Electric baseboard | Wood stove | Outdoor wood boiler Other _____ |

The primary type of fuel used is:

- | | | |
|--------------------|----------|----------|
| <u>Natural Gas</u> | Fuel Oil | Kerosene |
| Electric | Propane | Solar |
| Wood | Coal | |

Domestic hot water tank fueled by: _____

Boiler/furnace located in: Basement Outdoors Main Floor Other Building 18

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? ☒ Y / ☐ N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom ☒ Almost Never

Level **General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**

****No current usage/occupancy****

Basement	<u>Dept. 300 Rollway Machine Shop (most recent usage/occupancy)</u>
1 st Floor	<u>Shipping & receiving, Hazardous waste storage (most recent usage/occupancy)</u>
2 nd Floor	<u></u>
3 rd Floor	<u></u>
4 th Floor	<u></u>

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- | | |
|--|---|
| a. Is there an attached garage? | Y / ☒ N |
| b. Does the garage have a separate heating unit? | Y / N / ☒ NA |
| c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) | Y / ☒ N / NA
Please specify <u></u> |
| d. Has the building ever had a fire? | Y / ☒ N When? <u></u> |
| e. Is a kerosene or unvented gas space heater present? | Y / ☒ N Where? <u></u> |
| f. Is there a workshop or hobby/craft area? | Y / ☒ N Where & Type? <u></u> |
| g. Is there smoking in the building? | Y / ☒ N How frequently? <u></u> |
| h. Have cleaning products been used recently? | Y / ☒ N When & Type? <u></u> |
| i. Have cosmetic products been used recently? | Y / ☒ N When & Type? <u></u> |

- j. Has painting/staining been done in the last 6 months? Y / ☒ Where & When? _____
- k. Is there new carpet, drapes or other textiles? Y / ☒ Where & When? _____
- l. Have air fresheners been used recently? Y / ☒ When & Type? _____
- m. Is there a kitchen exhaust fan? Y / ☒ If yes, where vented? _____
- n. Is there a bathroom exhaust fan? Y / ☒ If yes, where vented? _____
- o. Is there a clothes dryer? Y / ☒ If yes, is it vented outside? Y / N
- p. Has there been a pesticide application? Y / ☒ When & Type? _____

Are there odors in the building?

Y / ☒

If yes, please describe: _____

Do any of the building occupants use solvents at work?

☒ / N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? Current usage limited to maintenance activities, additional historical usage present throughout facility _____

If yes, are their clothes washed at work?

Y / ☒

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)

Yes, use dry-cleaning infrequently (monthly or less)

Yes, work at a dry-cleaning service

☒ No

Unknown

Is there a radon mitigation system for the building/structure? Y / ☒ Date of Installation: _____

Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: ☒ Public Water Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: ☒ Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

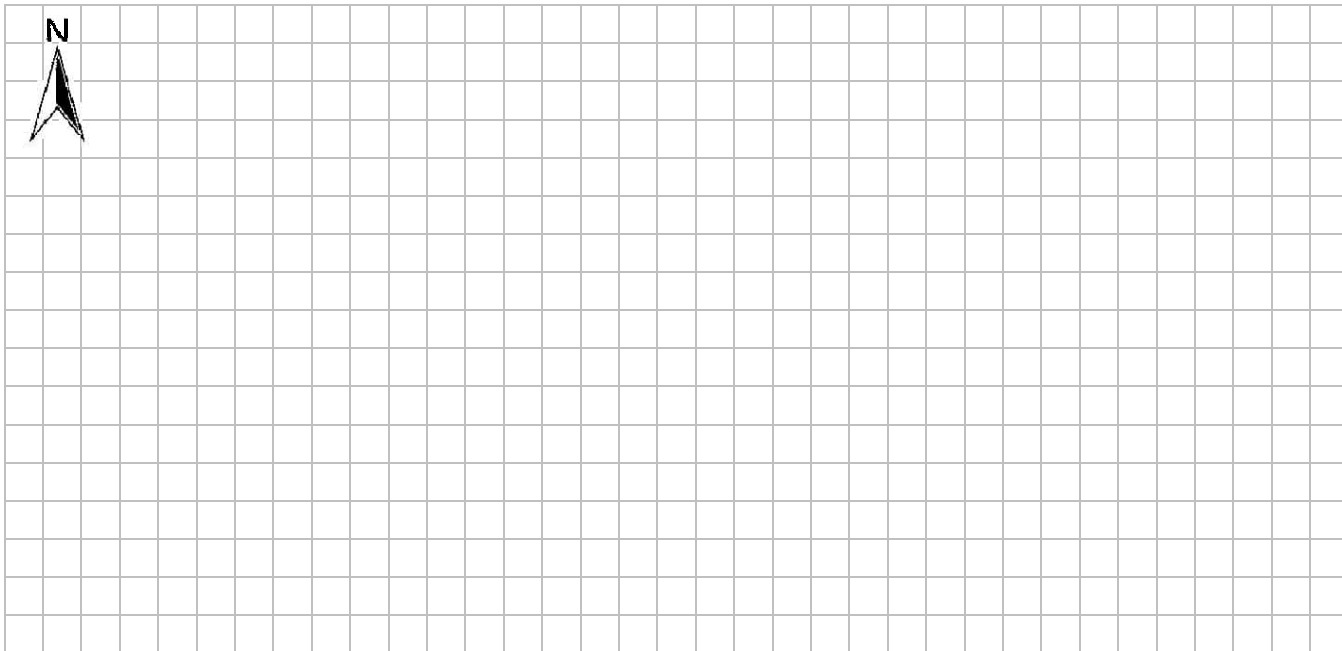
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

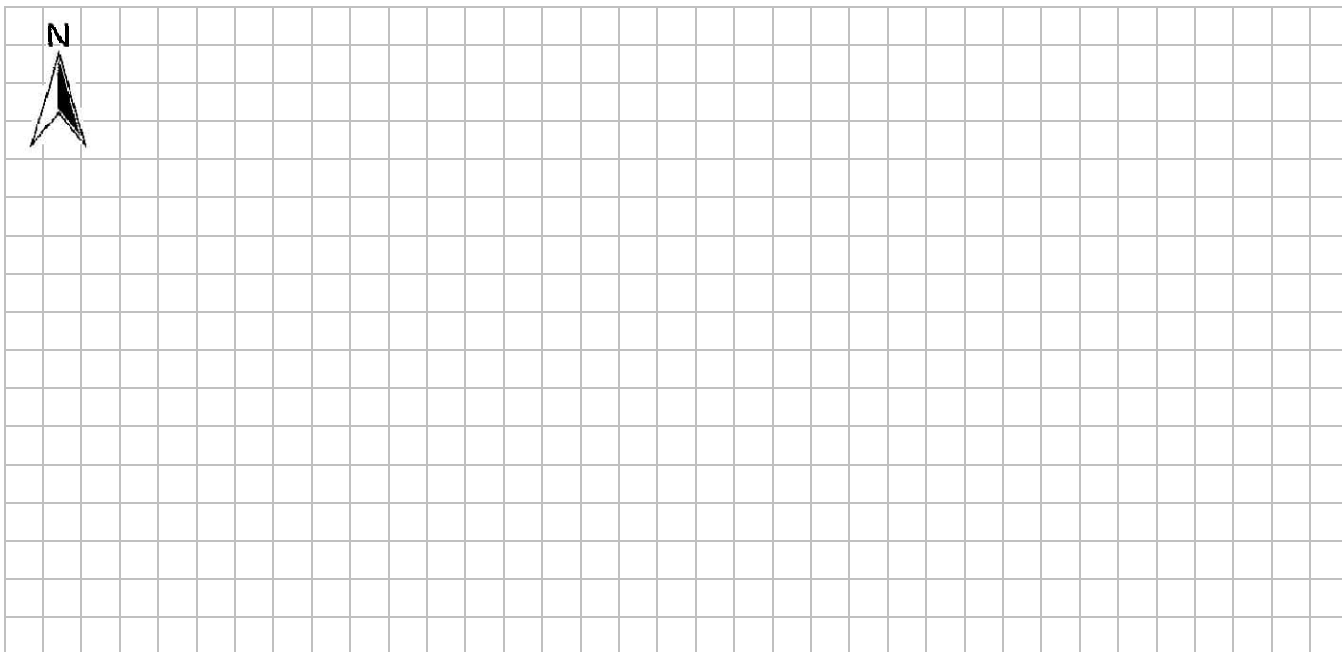
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



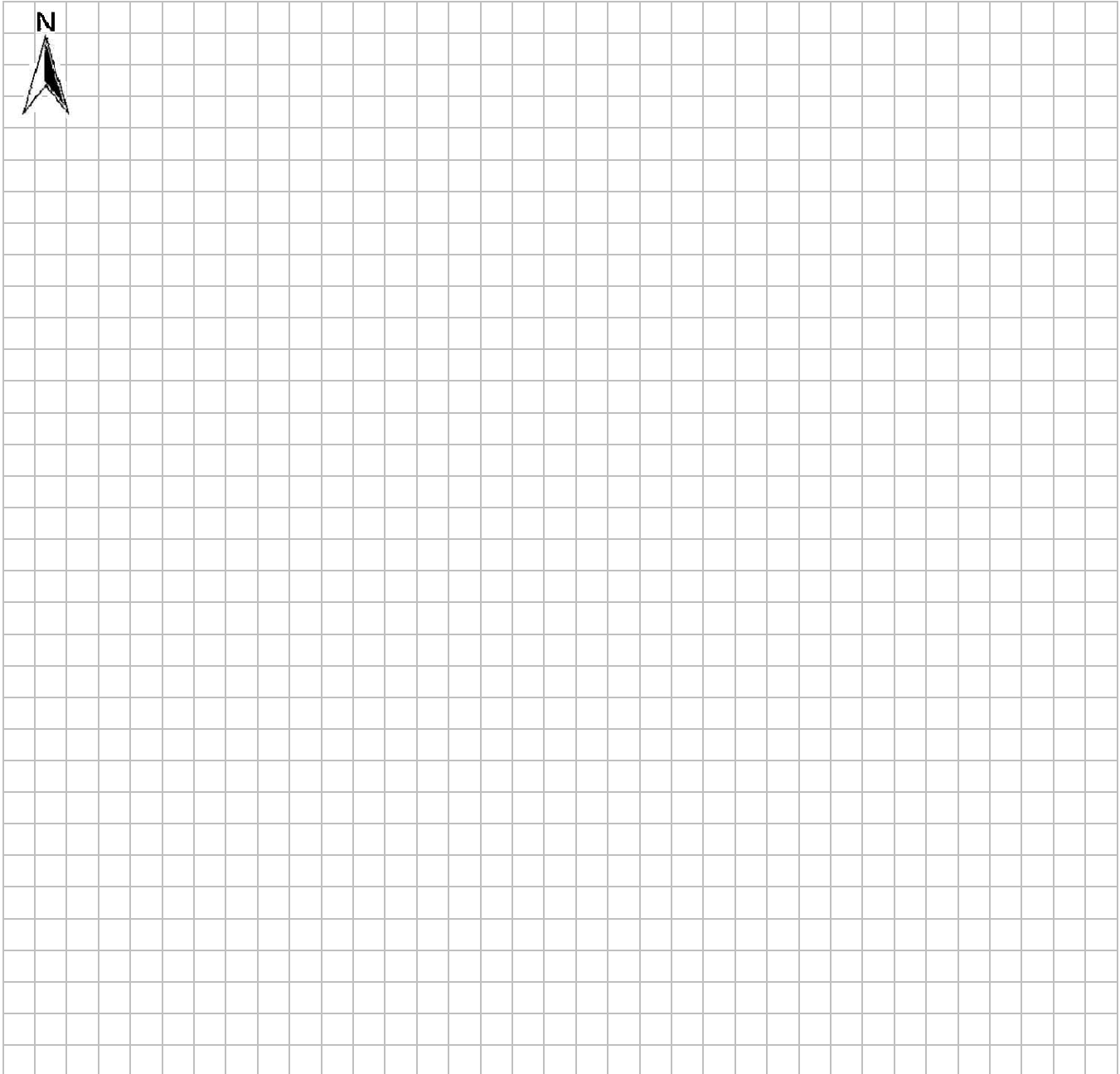
First Floor:



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Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

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Interviewed: Y / ☒ N

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Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ☐)

Interviewed: Y / ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
☒ Industrial

School
Church

Commercial/Multi-use
Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: _____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) Former manufacturing (automotive and power transmission components)

Does it include residences (i.e., multi-use)? Y / **(N)** If yes, how many? _____

Other characteristics:

Number of floors 2*

Building age 50+

Is the building insulated? **(Y)** / N

How air tight? Tight / **(Average)** / Not Tight

*1st floor includes partial mezzanine level for offices

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

N/A; airflow testing not evaluated during vapor intrusion assessment

Airflow between floors

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

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- i. The basement is: finished unfinished partially finished
- j. Sump present? Y N
- k. Water in sump? Y / N not applicable

Basement/Lowest level depth below grade: ~25 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Utilities present including stormwater, sewer, water, natural gas, electric etc. Numerous slab, exterior and interior wall penetrations for these utilities.

Former concrete and metal-lined process pits and trenches located on both the 1st and basement levels.

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

<u>Hot air circulation</u>	Heat pump	Hot water baseboard
Space Heaters	Steam radiation	Radiant floor
Electric baseboard	Wood stove	Outdoor wood boiler Other _____

The primary type of fuel used is:

<u>Natural Gas</u>	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: _____

Boiler/furnace located in: Basement Outdoors Main Floor Other Building 18

Air conditioning: Central Air Window units Open Windows None

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

****No current usage/occupancy****

4th Floor

a. Is there an attached garage? $Y \sim \mathcal{N}$

b. Does the garage have a separate heating unit? Y / N / (NA)

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) (Y) / N / NA
Please specify boom lift

d. Has the building ever had a fire? Y / (N) When?

e. Is a kerosene or unvented gas space heater present? Y / ☒ (N) Where? _____

f. Is there a workshop or hobby/craft area? Y / N Where & Type?

g. Is there smoking in the building? Y / (N) How frequently?

h. Have cleaning products been used recently?

Y / (N) When & Type?

i. Have cosmetic products been used recently? Y / (N) When & Type?

- j. Has painting/staining been done in the last 6 months? Y / ☒ Where & When? _____
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- p. Has there been a pesticide application? Y / ☒ When & Type? _____

Are there odors in the building?

Y / ☒

If yes, please describe: _____

Do any of the building occupants use solvents at work?

☒ / N

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Unknown

Is there a radon mitigation system for the building/structure? Y / ☒ Date of Installation: _____

Is the system active or passive?

Active/Passive

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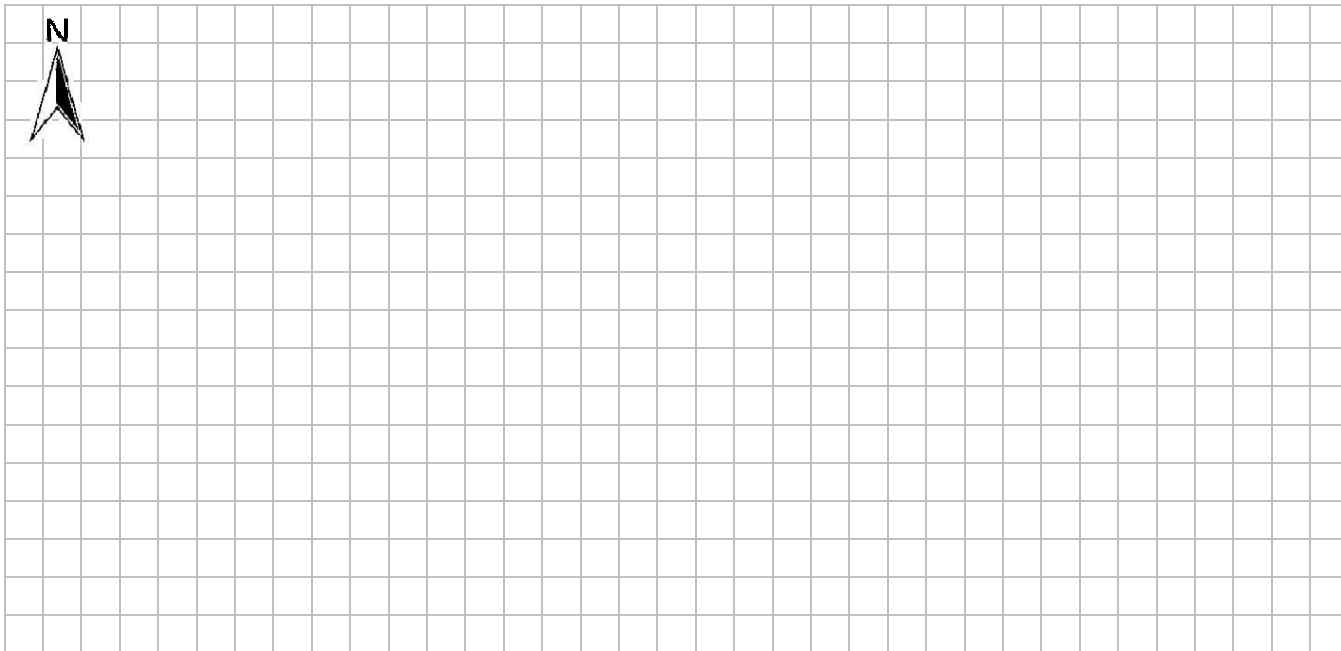
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d. Relocation package provided and explained to residents? Y / N

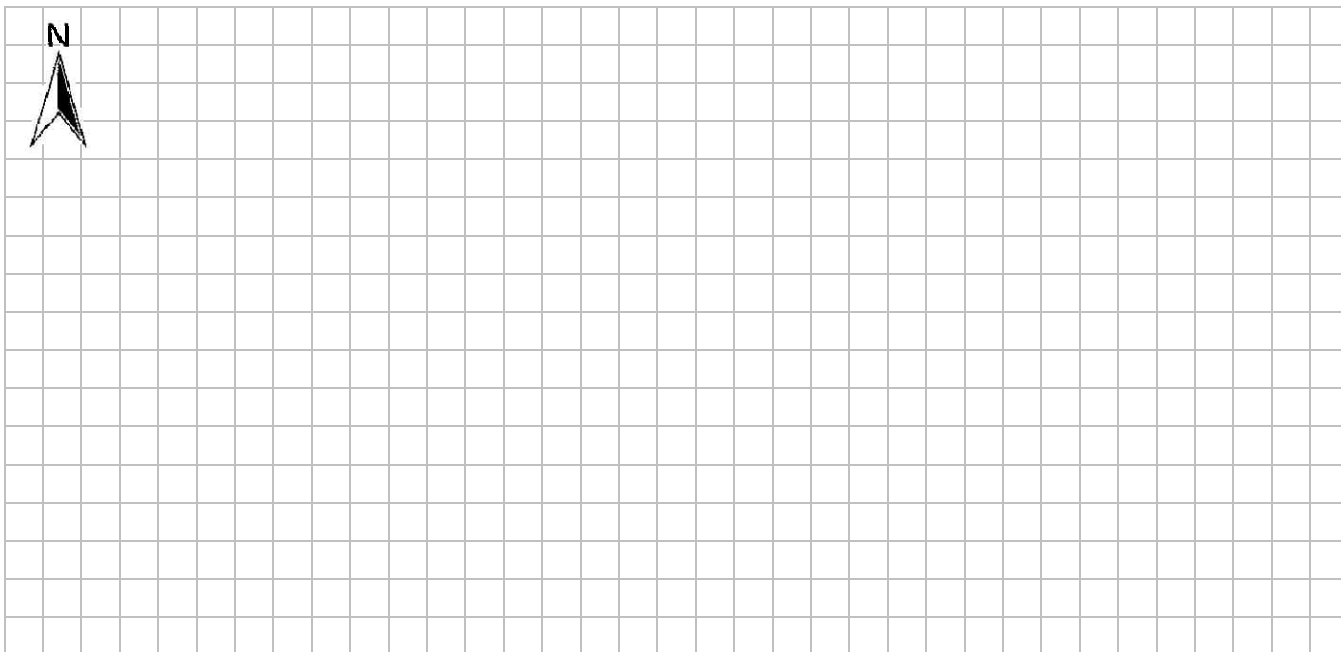
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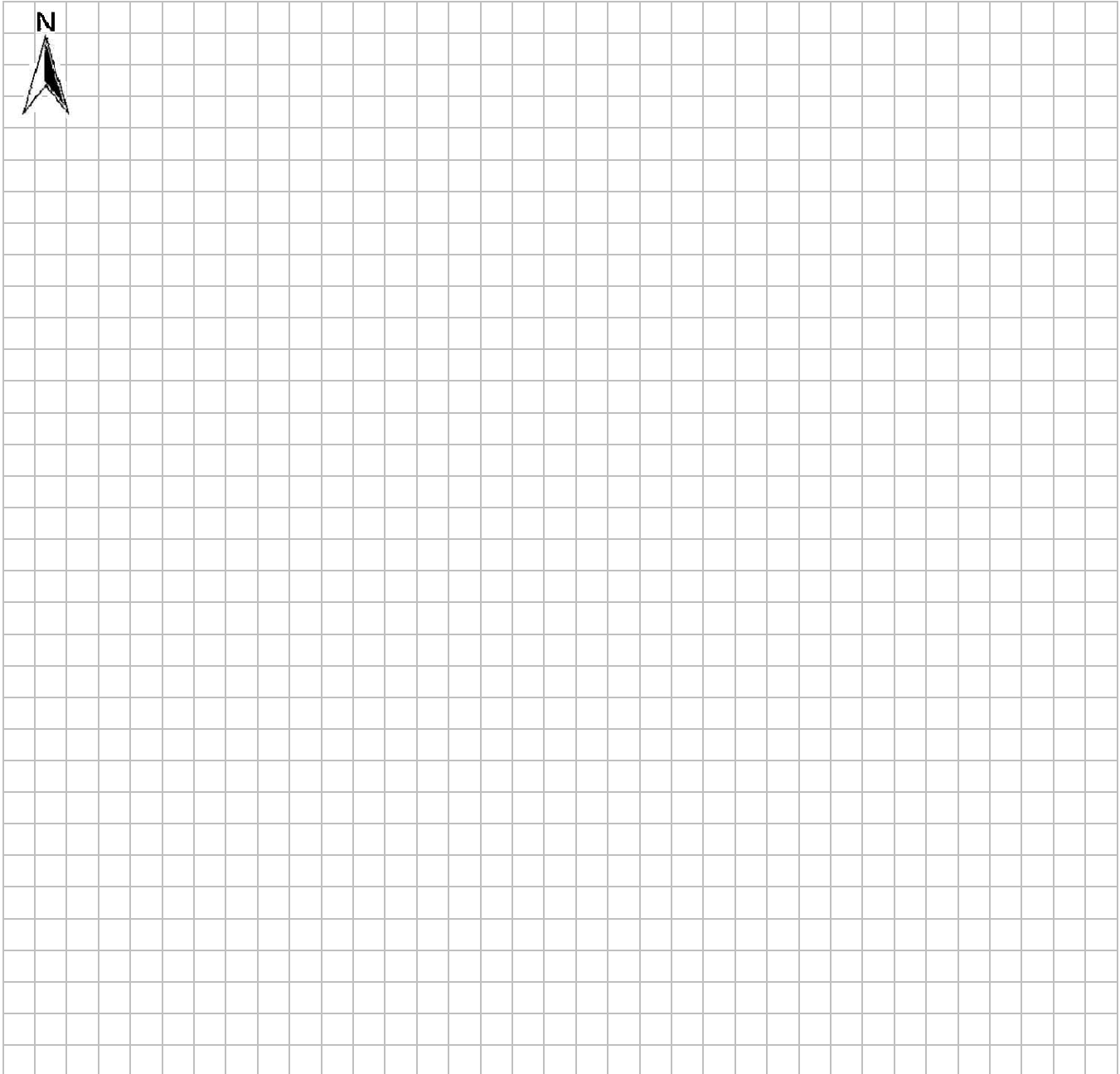
First Floor:



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ENCLOSURE B – AMBIENT TEMPERATURE, BAROMETRIC PRESSURE, AND
DIFFERENTIAL PRESSURE READINGS

Table B-1

Ambient Temperature, Barometric Pressure, and Differential Pressure Readings
March 2023 Sampling Event
Former Emerson Power Transmission
Ithaca, New York

Building Number	Foundation Type (a)	Lowest Level of Main Plant Building (b)	Sample Location	Ambient Outdoor Temperature (°F)		Ambient Barometric Pressure (millibar)		Differential Pressure (inches H ₂ O)
				Start of Sample Collection (March 15, 2023)	End of Sample Collection (March 16, 2023)	Start of Sample Collection (March 15, 2023)	End of Sample Collection (March 16, 2023)	
1	Full Basement	Basement/Lower	SS-BLDG1	33	50	1018.4	1014.5	+0.008
2	Full Basement	Basement/Lower	SS-BLDG2-2	33	50	1018.4	1014.5	-0.001
	Slab-on-Grade	Main	SS-BLDG2-1	33	51	1018.7	1013.3	+0.002
3	Full Basement (Partial Slab)	Basement/Lower	SS-BLDG3	33	52	1018.4	1013.7	0.000
4 (and 4A)	Full Basement (Partial Slab)	Basement/Lower	SS-BLDG4-1	33	52	1018.5	1013.7	+0.024
			SS-BLDG4-2	33	50	1018.5	1014.5	+0.009
5	Full Basement (Partial Slab)	Basement/Lower	SS-BLDG5	33	50	1018.4	1014.5	+0.023
6A	Full Basement	Basement/Lower	SS-BLDG6A-2	33	50	1018.4	1014.3	+0.028
	Slab-on-Grade	Main	SS-BLDG6A-1	33	52	1018.5	1013.7	+0.003
8 (and 8A)	Slab-on-Grade (Partial Slab)	Main	SS-BLDG8	33	52	1018.5	1013.7	-0.001
9 (and 9A)	Slab-on-Grade (Partial Slab)	Main	SS-BLDG9	33	52	1018.5	1013.7	+0.007
10 (and 10A/3A)	Slab-on-Grade	Main	SS-BLDG10	33	51	1018.7	1013.3	+0.005
11A	Slab-on-Grade (Partial Slab)	Main	SS-BLDG11A	33	50	1018.4	1014.3	-0.003
13A	Slab-on-Grade (Partial Slab)	Main	SS-BLDG13A	33	52	1018.5	1013.7	0.000
13B	Slab-on-Grade	Main	SS-BLDG13B	33	52	1018.5	1013.7	-0.001
18	Full Basement	-	SS-BLDG18	33	52	1018.5	1013.7	+0.080
21	Full Basement	-	SS-BLDG21-1	33	51	1018.7	1013.3	+0.002
			SS-BLDG21-2	33	51	1018.7	1013.3	-0.002
24	Full Basement	-	SS-BLDG24-2	33	42	1018.4	1017.5	+0.008
	Slab-on-Grade	-	SS-BLDG24-1	32	50	1018.3	1014.5	+0.016
33	Full Basement	Basement/Lower	SS-BLDG33-2	33	50	1018.4	1014.3	+0.003
	Slab-on-Grade	Main	SS-BLDG33-1	33	52	1018.5	1013.7	+0.005
34	Full Basement	Basement/Lower -North	SS-BLDG34-3	33	50	1018.4	1014.3	-0.014
		Basement/Lower - South	SS-BLDG34-4	33	50	1018.4	1014.3	+0.002
	Slab-on-Grade	Main - North	SS-BLDG34-1	33	46	1018.4	1016.3	-0.004
		Main - South	SS-BLDG34-2	33	50	1018.4	1014.3	+0.001

a/ Foundations with partial slabs either had exposed former excavation areas or gravel-filled test pits from previous investigations.

b/ Levels shown on Figures 1 and 2.

ENCLOSURE C – LABORATORY ANALYTICAL DATA AND DATA USABILITY
SUMMARY REPORT

Data Usability Summary Report	Project: Former EPT Ithaca
Date Completed: May 4, 2023	Completed by: Debbie E. Copsey

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- EPA Region 2 Data Validation SOP No. HW-31, Revision 6 Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15, September 2016.

Compliance with the project QA program is indicated in the checklist and tables below. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
31405608.001.01	P2301250	ALS Environment

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Correction
P2301250	AS	SS-BLDG1	P2301250-001	3/16/2023 16:15		
P2301250	AS	SS-BLDG2-1	P2301250-002	3/16/2023 17:50		
P2301250	AS	SS-BLDG2-2	P2301250-003	3/16/2023 16:10		
P2301250	AS	SS-BLDG3	P2301250-004	3/16/2023 16:34		
P2301250	AS	SS-BLDG4-1	P2301250-005	3/16/2023 16:43		
P2301250	AS	SS-BLDG4-2	P2301250-006	3/16/2023 16:27		
P2301250	AS	SS-BLDG5	P2301250-007	3/16/2023 16:20		
P2301250	AS	SS-BLDG6A-1	P2301250-008	3/16/2023 16:50		
P2301250	AS	SS-BLDG6A-2	P2301250-009	3/16/2023 16:17		
P2301250	AS	SS-BLDG8	P2301250-010	3/16/2023 16:54		
P2301250	AS	SS-BLDG9	P2301250-011	3/16/2023 17:25		
P2301250	AS	SS-BLDG10	P2301250-012	3/16/2023 16:33		
P2301250	AS	SS-BLDG11A	P2301250-013	3/16/2023 16:06		
P2301250	AS	SS-BLDG13A	P2301250-014	3/16/2023 17:00		
P2301250	AS	SS-BLDG13B	P2301250-015	3/16/2023 17:05		
P2301250	AS	SS-BLDG18	P2301250-016	3/16/2023 16:35		
P2301250	AS	SS-BLDG21-1	P2301250-017	3/16/2023 17:32		
P2301250	AS	SS-BLDG21-2	P2301250-018	3/16/2023 17:39		
P2301250	AS	SS-BLDG24-1	P2301250-019	3/16/2023 15:46		
P2301250	AS	SS-BLDG24-2	P2301250-020	3/16/2023 12:23		
P2301250	AS	SS-BLDG33-1	P2301250-021	3/16/2023 16:41		
P2301250	AS	SS-BLDG33-2	P2301250-022	3/16/2023 16:15		
P2301250	AS	SS-BLDG34-1	P2301250-023	3/16/2023 14:38		
P2301250	AS	SS-BLDG34-2	P2301250-024	3/16/2023 16:08		
P2301250	AS	SS-BLDG34-3	P2301250-025	3/16/2023 16:13		
P2301250	AS	SS-BLDG34-4	P2301250-026	3/16/2023 16:10		
P2301250	AS	SS-031523A	P2301250-027	3/16/2023 17:33	Field Duplicate	
P2301250	AS	SS-031523B	P2301250-028	3/16/2023 16:08	Field Duplicate	
P2301250	AI	IA-BLDG1-1	P2301250-029	3/16/2023 13:30		
P2301250	AI	IA-BLDG1-2	P2301250-030	3/16/2023 13:35		
P2301250	AI	IA-BLDG2-1	P2301250-031	3/16/2023 13:11		
P2301250	AI	IA-BLDG2-2	P2301250-032	3/16/2023 11:02		
P2301250	AI	IA-BLDG3	P2301250-033	3/16/2023 12:40		
P2301250	AI	IA-BLDG4-1	P2301250-034	3/16/2023 12:02		
P2301250	AI	IA-BLDG4-2	P2301250-035	3/16/2023 12:55		
P2301250	AI	IA-BLDG5	P2301250-036	3/16/2023 11:55		
P2301250	AI	IA-BLDG6A-1	P2301250-037	3/16/2023 13:15		
P2301250	AI	IA-BLDG6A-2	P2301250-038	3/16/2023 14:08		
P2301250	AI	IA-BLDG8	P2301250-039	3/16/2023 12:51		
P2301250	AI	IA-BLDG9	P2301250-040	3/16/2023 13:09		
P2301250	AI	IA-BLDG10	P2301250-041	3/16/2023 15:17		
P2301250	AI	IA-BLDG11A	P2301250-042	3/16/2023 12:15		

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Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Correction
P2301250	AI	IA-BLDG13A	P2301250-043	3/16/2023 12:46		
P2301250	AI	IA-BLDG13B	P2301250-044	3/16/2023 17:45		
P2301250	AI	IA-BLDG21-1	P2301250-045	3/16/2023 17:35		
P2301250	AI	IA-BLDG21-2	P2301250-046	3/16/2023 13:37		
P2301250	AI	IA-BLDG24-1	P2301250-047	3/16/2023 12:25		
P2301250	AI	IA-BLDG24-2	P2301250-048	3/16/2023 11:45		
P2301250	AI	IA-BLDG33-1	P2301250-049	3/16/2023 12:57		
P2301250	AI	IA-BLDG33-2	P2301250-050	3/16/2023 13:53		
P2301250	AI	IA-BLDG34-1	P2301250-051	3/16/2023 11:45		
P2301250	AI	IA-BLDG34-2	P2301250-052	3/16/2023 11:40		
P2301250	AI	IA-BLDG34-3	P2301250-053	3/16/2023 12:50		
P2301250	AI	IA-BLDG34-4	P2301250-054	3/16/2023 11:50		
P2301250	AI	IA-031523A	P2301250-055	3/16/2023 07:30	Field Duplicate	
P2301250	AO	OA-031523A	P2301250-056	3/16/2023 12:30		
P2301250	AO	OA-031523B	P2301250-057	3/16/2023 13:50		
P2301250	AI	IA-031523BR	P2301250-058	3/16/2023 15:55	Field Duplicate	
P2301250	AI	IA-BLDG18	P2301250-059	3/17/2023 08:13		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
P2301250	AS/AI/AO	TO-15	Volatile Organic Compounds in Air Canisters by GC/MS	53	
P2301250	AS/AI	TO-15	Volatile Organic Compounds in Air Canisters by GC/MS	4	FD

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Were canisters cleaned down to method reporting limits?	Yes.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	The frequency of field QC will be evaluated at the end of project. 4 FD per 53 samples.
Case narrative present and complete?	Yes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Reanalysis Results (Table 6)
- Field Duplicate Results (Table 7)

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Date Completed: May 4, 2023	Completed by: Debbie E. Copsey

Volatile Organic Compounds by GC/MS – Method 8260C	
Description	Notes and Qualifiers
Any compounds present in method, trip, or, field blanks (see Table 2)?	No.
For samples, if results are < 5 times the blank or < 10 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples and MS/MSD within limits? (See Table 3). If not, were all samples reanalyzed for VOCs? Matrix effects should be established.	Not applicable.
Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then "J" flag positive data in original sample due to matrix.	MS/MSDs were not submitted; however the laboratory did provide LCS/LCSDs on each day of analysis. For each set, the percent recoveries and RPD values were within QC criteria. The laboratory also submitted a duplicate for sample IA-BLDG13B. All the RPD values were less than the laboratory criteria of 25 percent.
Is LCS/DLCS within QC criteria (see Table 5)?	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 6)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit?	Yes.
Does the continuing calibration for target compounds meet the acceptance criteria in method SOP NO. HW-31 Revision 6 2016; Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15? The requirements are that target compounds have an RRF value greater than 0.01. The percent difference value for the poor performers are less than 40%, for any other compounds the percent difference must be less than 30% difference. The poor performers: carbon disulfide, chloromethane, 1,2-dibromomethane, 1,2-dichloropropane, 1,4-dioxane, methylene chloride, and methyl ethyl ketone.	Yes, with the following exception: Chloromethane was recovered at a percent difference greater than 30 percent and less than 40 percent. This is the only poor performer greater than the percent difference criterion which is acceptable. No qualification is required.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	The 1,1,1-Trichloroethane value in sample SS-BLDG5 was reported at a dilution factor of 10. Elevated reporting limit was provided. The trichloroethene value in sample SS-BLDG9 was reported at a dilution factor of 20. Elevated reporting limit provided. The trichloroethene value in samples SS-BLDG8, SS-BLDG10, SS-BLDG34-3, SS-031523A were

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Volatile Organic Compounds by GC/MS – Method 8260C	
Description	Notes and Qualifiers
	reported at a dilution factor of 10. Elevated reporting limits provided. The tetrachloroethene value in samples SS-BLDG11A, SS-BLFG13B were reported at a dilution factor of 10. Elevated reporting limits provided. The chloroform and tetrachloroethene values in sample SS-BLDG13A were reported at a dilution factor of 10. Elevated reporting limits provided. The methylcyclohexane value in sample SS-BLDG18 was reported at a dilution factor of 10. The elevated reporting limit was provided. The toluene value in sample SS-BLDG21-2 was reported at a dilution factor of 10. The elevated reporting limit was provided. In all instances, the analyte from the dilution was detected. There is no impact to data usability.
For TICs are there any system related compounds that should not be reported?	Not applicable.
Do field duplicate results show good precision for all compounds (see Table 7)?	Carbon disulfide RPD is greater than the criterion of <50 at 156%. Carbon disulfide in sample SS-BLDG10 and SS-031523A are qualified as estimate (J). Cis-1,2-dichloroethene, 1,1,1-trichloroethane, and 2-hexanone RPDs exceeded the criterion of less than 50 percent at 90%, 55%, and 52% respectively. Cis-1,2-dichloroethene, 1,1,1-trichloroethane, and 2-hexanone values in samples IA-BLDG11A and IA-031523A are qualified as estimate (J).
Summary of Findings	
VOCs in Air by Method TO-15 - Carbon disulfide was J qualified in samples SS-BLDG10 and SS-031523A due to the RPD result exceeding acceptance criteria in this field duplicate analysis. - Cis-1,2-dichloroethene, 1,1,1-trichloroethane, and 2-hexanone values were J qualified in samples IA-BLDG11A and IA-031523A due to the field duplicate RPD results exceeding the acceptance criteria. - Per NYSDEC DER-10, if the laboratory doesn't have the correct certification, the data is to be rejected. The laboratory states that it has not hold NELAP or DoD-ELAP accreditation for the compound's methyl acetate or methylcyclohexane; however, the laboratory does hold NYSDOH ELAP certification for the method. No qualification was made for these analytes.	

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Table 2 - List of Positive Results for Blank Samples - None

Method	Sample Name	Sample Type	Analyte	Result	Qualifier	Units	MDL	PQL

Table 2A - List of Samples Qualified for Method Blank Contamination - None

Method	Method Blank	Matrix	Analyte	Result	Lab Qual	Blank Result	Units	MDL	PQL	Affected Sample	Sample Flag

Table 2B - List of Samples Qualified for Field Blank Contamination – Not applicable – None submitted

Method	Field Blank	Matrix	Analyte	Result	Lab Qual	Blank Result	Units	MDL	PQL	Sample Name	Sample Flag

Table 3 - List of Samples with Surrogates outside Control Limits
None.

Method	Sample ID	Sample Type	Analyte	Rec. %	Low Limit	High Limit	Dilution Factor	Sample Qualifier	No. IDAs Out

Table 4A – List of MS/MSD Recoveries outside Control Limits – Not applicable – None analyzed

Method	Parent Sample	Analyte	Orig. Result	Spike Amount	Dil Fac	Unit	Low Limit	High Limit	MS	SD	Qualifier

Table 5A - List of LCS Recoveries outside Control Limits - None

Method	Sample ID	Analyte	Rec.	Low Limit	High Limit	Sample Qualifier

Table 5B – List of ICV/CCV Recoveries outside Control Limits

Method	Calibration ID	Matrix	Analyte	Column	%D Result	%D Limit	Sample Flag
TO-15	CCV 3/27/23 4:21 MS16	AQ	Chloromethane	-	31.0	30.0	None – <40% low performer

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Table 6 –Samples that were Re-analyzed

Sample ID	Lab ID	Method	Sample Type	Action
SS-BLDG5	P2301250-007	TO-15	AS	1,1,1-Trichloroethane reported at a dilution factor of 10
SS-BLDG8	P2301250-010	TO-15	AS	Trichloroethene reported at a dilution factor of 10
SS-BLDG9	P2301250-011	TO-15	AS	Trichloroethene reported at a dilution factor of 20
SS-BLDG10	P2301250-012	TO-15	AS	Trichloroethene reported at a dilution factor of 10
SS-BLDG11A	P2301250-013	TO-15	AS	Tetrachloroethene reported at a dilution factor of 10
SS-BLDG13A	P2301250-014	TO-15	AS	Chloroform reported at a dilution factor of 10
SS-BLDG13A	P2301250-014	TO-15	AS	Tetrachloroethene reported at a dilution factor of 10
SS-BLDG13B	P2301250-015	TO-15	AS	Tetrachloroethene reported at a dilution factor of 10
SS-BLDG18	P2301250-016	TO-15	AS	Methylcyclohexane reported at a dilution factor of 10
SS-BLDG21-2	P2301250-018	TO-15	AS	Toluene reported at a dilution factor of 10
SS-BLDG34-3	P2301250-025	TO-15	AS	Trichloroethene reported at a dilution factor of 10
SS-031523A	P2301250-027	TO-15	AS	Trichloroethene reported at a dilution factor of 10

Table 7A – Summary of Field Duplicate Results

Method	Analyte	Unit	Matrix	PQL	SS-BLDG10	SS-031523A	RPD	RPD Rating	Sample Qual
TO-15	Dichlorodifluoromethane	ug/m ³	AS	0.52	2.4	2.4	0	Good	None
TO-15	Vinyl Chloride	ug/m ³	AS	0.11	0.1	ND	NC	Good	None
TO-15	Acetone	ug/m ³	AS	5.3	82	84	2.4	Good	None
TO-15	Trichlorofluoromethane	ug/m ³	AS	0.53	1.1	1.1	0	Good	None
TO-15	Methylene Chloride	ug/m ³	AS	0.53	2.4	2.5	4.1	Good	None
TO-15	Trichlorotrifluoromethane	ug/m ³	AS	0.54	0.54	0.56	3.6	Good	None
TO-15	Carbon Disulfide	ug/m ³	AS	1.1	0.3	2.4	156	Qualify	J
TO-15	1,1-Dichloroethane	ug/m ³	AS	0.11	2.5	2.6	3.9	Good	None
TO-15	2-Butanone	ug/m ³	AS	1.1	3.4	3.5	2.9	Good	None
TO-15	cis-1,2-Dichloroethene	ug/m ³	AS	0.11	0.90	0.93	3.3	Good	None
TO-15	Chloroform	ug/m ³	AS	0.11	24	26	8.0	Good	None
TO-15	1,1,1-Trichloroethane	ug/m ³	AS	0.11	59	61	3.3	Good	None
TO-15	Benzene	ug/m ³	AS	0.11	0.29	0.30	3.4	Good	None
TO-15	Carbon Tetrachloride	ug/m ³	AS	0.11	0.65	0.57	13	Good	None

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Table 7A – Summary of Field Duplicate Results

Method	Analyte	Unit	Matrix	PQL	SS-BLDG10	SS-031523A	RPD	RPD Rating	Sample Qual
TO-15	Cyclohexane	ug/m ³	AS	1.1	0.56	0.60	6.9	Good	None
TO-15	Bromodichloromethane	ug/m ³	AS	0.11	1.7	1.7	0	Good	None
TO-15	Trichloroethene	ug/m ³	AS	0.11	190	200	5.1	Good	None
TO-15	4-Methyl-2-Pentanone	ug/m ³	AS	0.53	1.2	1.2	0	Good	None
TO-15	Toluene	ug/m ³	AS	0.54	4.0	4.3	7.2	Good	None
TO-15	2-Hexanone	ug/m ³	AS	0.54	0.60	0.57	5.1	Good	None
TO-15	Tetrachloroethene	ug/m ³	AS	0.10	46	48	4.3	Good	None
TO-15	Ethylbenzene	ug/m ³	AS	0.54	0.98	0.98	0	Good	None
TO-15	m,p-Xylenes	ug/m ³	AS	1.1	3.5	3.5	0	Good	None
TO-15	Styrene	ug/m ³	AS	0.53	0.43	0.40	7.2	Good	None
TO-15	o-Xylene	ug/m ³	AS	0.54	1.2	1.2	0	Good	None
TO-15	Cumene	ug/m ³	AS	0.54	0.13	0.13	0	Good	None
TO-15	Methylcyclohexane	ug/m ³	AS	0.50*	1.2	1.2	0	Good	None

*Method reporting limits not provided for methylcyclohexane; method blank PQL
RPD – Relative percent differencer

Table 7B-Summary of Field Duplicate Results

Method	Analyte	Unit	Matrix	PQL	SS-BLDG34-2	SS-031523B	RPD	RPD Rating	Sample Qual
TO-15	Dichlorodifluoromethane	ug/m ³	AS	0.11	2.2	2.3	4.4	Good	None
TO-15	Chloromethane	ug/m ³	AS	0.21	ND	0.25	NC	NC	None
TO-15	Bromomethane	ug/m ³	AS	0.21	ND	0.13	NC	NC	None
TO-15	Acetone	ug/m ³	AS	5.3	240	250	4.1	Good	None
TO-15	Trichlorofluoromethane	ug/m ³	AS	0.53	1.1	1.1	0	Good	None
TO-15	Methylene Chloride	ug/m ³	AS	0.53	3.4	3.5	2.9	Good	None
TO-15	Trichlorotrifluoromethane	ug/m ³	AS	0.54	0.50	0.47	6.2	Good	None
TO-15	1,1-Dichloroethane	ug/m ³	AS	0.11	ND	0.9	NC	NC	None
TO-15	2-Butanone	ug/m ³	AS	1.1	8.4	8.9	5.8	Good	None
TO-15	Chloroform	ug/m ³	AS	0.11	3.6	3.9	8.0	Good	None

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Method	Analyte	Unit	Matrix	PQL	SS-BLDG34-2	SS-031523B	RPD	RPD Rating	Sample Qual
TO-15	1,1,1-Trichloroethane	ug/m ³	AS	0.11	5.5	6.0	8.7	Good	None
TO-15	Benzene	ug/m ³	AS	0.11	0.36	0.35	2.8	Good	None
TO-15	Carbon Tetrachloride	ug/m ³	AS	0.11	0.29	0.28	3.5	Good	None
TO-15	Trichloroethene	ug/m ³	AS	0.11	64	67	4.6	Good	None
TO-15	4-Methyl-2-Pentanone	ug/m ³	AS	0.53	2.5	2.6	3.9	Good	None
TO-15	Toluene	ug/m ³	AS	0.54	2.5	2.4	4.1	Good	None
TO-15	2-Hexanone	ug/m ³	AS	0.54	2.1	2.0	4.9	Good	None
TO-15	Tetrachloroethene	ug/m ³	AS	0.10	33	34	3.0	Good	None
TO-15	Ethylbenzene	ug/m ³	AS	0.54	2.6	2.6	0	Good	None
TO-15	m,p-Xylenes	ug/m ³	AS	1.1	12	12	0	Good	None
TO-15	Styrene	ug/m ³	AS	0.53	0.53	0.45	16	Good	None
TO-15	o-Xylenes	ug/m ³	AS	0.54	10	10	0	Good	None
TO-15	Cumene	ug/m ³	AS	0.54	9.2	9.3	1.1	Good	None
TO-15	1,4-Dichlorobenzene	ug/m ³	AS	0.54	0.17	ND	NC	NC	None
TO-15	1,2-Dichlorobenzene	ug/m ³	AS	0.54	0.15	0.16	6.5	Good	None
TO-15	Methylcyclohexane	ug/m ³	AS	0.50*	0.80	0.76	5.1	Good	None

*Method reporting limits not provided for methylcyclohexane; method blank PQL

RPD – Relative percent difference

NC – Not calculatable

Table 7C – Summary of Field Duplicate Results

Method	Analyte	Unit	Matrix	PQL	IA-BLDG11A	IA-031523A	RPD	RPD Rating	Sample Qual
TO-15	Dichlorodifluoromethane	ug/m ³	AI	0.52	2.9	2.9	0	Good	None
TO-15	Chloromethane	ug/m ³	AI	0.11	0.29	0.26	11	Good	None
TO-15	Acetone	ug/m ³	AI	5.3	5.7	7.0	20	Good	None
TO-15	Trichlorofluoromethane	ug/m ³	AI	0.53	1.9	1.7	11	Good	None
TO-15	Methylene Chloride	ug/m ³	AI	0.53	0.41	0.37	10	Good	None
TO-15	Trichlorotrifluoromethane	ug/m ³	AI	0.54	0.50	0.51	2.0	Good	None

Data Usability Summary Report	Project: Former EPT Ithaca
Date Completed: May 4, 2023	Completed by: Debbie E. Copsey

Table 7C – Summary of Field Duplicate Results

Method	Analyte	Unit	Matrix	PQL	IA-BLDG11A	IA-031523A	RPD	RPD Rating	Sample Qual
TO-15	2-Butanone	ug/m ³	Al	1.1	1.0	1.2	18	Good	None
TO-15	cis-1,2-Dichloroethene	ug/m ³	Al	0.11	0.29	0.11	90	Qualify	J
TO-15	Chloroform	ug/m ³	Al	0.11	0.24	0.20	18	Good	None
TO-15	1,2-Dichloroethane	ug/m ³	Al	0.11	ND	0.093	NC	NC	None
TO-15	1,1,1-Trichloroethane	ug/m ³	Al	0.11	0.35	0.20	55	Qualify	J
TO-15	Benzene	ug/m ³	Al	0.11	1.0	1.5	40	Good	None
TO-15	Carbon Tetrachloride	ug/m ³	Al	0.11	0.48	0.47	2.1	Good	None
TO-15	Trichloroethene	ug/m ³	Al	0.11	1.1	0.90	20	Good	None
TO-15	4-Methyl-2-Pentanone	ug/m ³	Al	0.53	0.19	0.17	11	Good	None
TO-15	Toluene	ug/m ³	Al	0.54	1.6	2.1	27	Good	None
TO-15	2-Hexanone	ug/m ³	Al	0.54	0.23	0.39	52	Qualify	J
TO-15	Tetrachloroethene	ug/m ³	Al	0.10	0.29	0.25	15	Good	None
TO-15	Ethylbenzene	ug/m ³	Al	0.54	0.30	0.37	21	Good	None
TO-15	m,p-Xylenes	ug/m ³	Al	1.1	0.99	1.1	11	Good	None
TO-15	o-Xylene	ug/m ³	Al	0.54	0.43	0.43	0	Good	None
TO-15	Methyl Acetate	ug/m ³	Al	0.50*	0.35	0.36	2.8	Good	None

*Method reporting limits not provided for methyl acetate; method blank PQL

RPD – Relative percent difference

Bold values exceed RPD limit of 50

NC – Not calculatable

Table 7D – Summary of Field Duplicate Results

Method	Analyte	Unit	Matrix	PQL	IA-BLDG24-2	IA-031523B	RPD	RPD Rating	Sample Qual
TO-15	Dichlorodifluoromethane	ug/m ³	Al	0.52	2.9	2.9	0	Good	None
TO-15	Chloromethane	ug/m ³	Al	0.11	0.34	0.29	16	Good	None

Data Usability Summary Report	Project: Former EPT Ithaca
Date Completed: May 4, 2023	Completed by: Debbie E. Copsey

Table 7D – Summary of Field Duplicate Results

Method	Analyte	Unit	Matrix	PQL	IA-BLDG24-2	IA-031523B	RPD	RPD Rating	Sample Qual
TO-15	Acetone	ug/m ³	AI	5.3	3.7	3.3	11	Good	None
TO-15	Trichlorofluoromethane	ug/m ³	AI	0.53	1.4	1.4	0	Good	None
TO-15	Methylene Chloride	ug/m ³	AI	0.53	0.49	0.43	13	Good	None
TO-15	Trichlorotrifluoromethane	ug/m ³	AI	0.54	0.51	0.53	3.8	Good	None
TO-15	2-Butanone	ug/m ³	AI	1.1	0.68	0.60	12	Good	None
TO-15	Chloroform	ug/m ³	AI	0.11	0.098	0.091	7.4	Good	None
TO-15	1,2-Dichloroethane	ug/m ³	AI	0.11	ND	0.088	NC	NC	None
TO-15	Benzene	ug/m ³	AI	0.11	0.54	0.51	5.7	Good	None
TO-15	Carbon Tetrachloride	ug/m ³	AI	0.11	0.48	0.47	2.1	Good	None
TO-15	Trichloroethene	ug/m ³	AI	0.11	0.22	0.21	4.7	Good	None
TO-15	Toluene	ug/m ³	AI	0.54	0.63	0.60	4.9	Good	None
TO-15	2-Hexanone	ug/m ³	AI	0.54	0.15	ND	NC	NC	None
TO-15	Tetrachloroethene	ug/m ³	AI	0.10	ND	0.097	NC	NC	None
TO-15	Ethylbenzene	ug/m ³	AI	0.54	ND	0.097	NC	NC	None
TO-15	m,p-Xylenes	ug/m ³	AI	1.1	0.27	0.27	0	Good	None
TO-15	o-Xylene	ug/m ³	AI	0.54	0.11	0.11	0	Good	None

RPD – Relative percent difference

NC – Not calculatable

Acronym List and Table Key:

CCB = continuing calibration blank

Data Usability Summary Report	Project: Former EPT Ithaca
Date Completed: May 4, 2023	Completed by: Debbie E. Copsey

Acronym List and Table Key:

CCV	= continuing calibration verification
CCVL	= continuing calibration verification low
COC	= chain of custody
DUSR	= data usability summary report
FB	= field blank
FD	= field duplicate
GC/MS	= gas chromatography / mass spectrometry
ICB	= initial calibration blank
ICS	= interference check standard
ICV	= initial calibration verification
LCS	= laboratory control sample
LR	= lab replicate
MB	= method blank
MDL	= method detection limit
µg/L	= micrograms per liter
mg/L	= milligrams per liter
MS	= matrix spike
MSD	= matrix spike duplicate
ng/L	= nanograms per liter
N	= normal (field) sample
NC	= not calculated
ND	= not detected
NYSDEC	= New York State Department of Environmental Conservation
PQL	= practical quantitation limit
QA	= quality assurance
QAPP	= quality assurance project plan
QC	= quality control
RB	= equipment rinse blank
RPD	= relative percent difference
RL	= reporting limit
SDG	= sample delivery group
TB	= trip blank
TRG	= target compound

Data Usability Summary Report	Project: Former EPT Ithaca
Date Completed: May 4, 2023	Completed by: Debbie E. Copsey

Acronym List and Table Key:

%D = percent difference
 %RSD = percent relative standard deviation



LABORATORY REPORT

March 30, 2023

Lisa Kelly
WSP USA Inc.
11 Stanwix Street, Suite 950
Pittsburgh, PA 15222

RE: Former Emerson Power Transmission Facility / 31405608.001

Dear Lisa:

Enclosed are the results of the samples submitted to our laboratory on March 20, 2023. For your reference, these analyses have been assigned our service request number P2301250.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

ALS | Environmental


By Sue Anderson at 5:46 pm, Mar 30, 2023

Sue Anderson
Project Manager



Client: WSP USA Inc. Service Request No: P2301250
Project: Former Emerson Power Transmission Facility / 31405608.001

CASE NARRATIVE

The samples were received intact under chain of custody on March 20, 2023 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph/mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The lower control criterion was exceeded for Chloromethane in the Continuing Calibration Verification (CCV) analyzed on March 27, 2023. In accordance with ALS Environmental standard operating procedures, a Method Reporting Limit (MRL) check standard containing the analyte of concern was analyzed each day of analysis. The MRL check standard verified that instrument sensitivity was adequate to detect the analyte at the MRL on the day of analysis. The sensitivity was shown to be adequate to detect the compound and the Laboratory Control Samples (LCS/DLCS) met acceptance criteria. This procedure is a quantitative confirmation of non-detect results at or below the MRL. The result may have a low bias and have been flagged accordingly. No further corrective action was taken.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.4 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.



CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	https://dec.alaska.gov/spar/csp/lab-approval/list-of-approved-labs	17-019
Arizona DHS	http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home	AZ0694
Florida DOH (NELAP)	http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html	E871020
Louisiana DEQ (NELAP)	https://internet.deq.louisiana.gov/portal/divisions/lalap/accredited-laboratories	05071
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtm	2022028
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	006-999-456
New Jersey DEP (NELAP)	https://dep.nj.gov/dsr/oqa/certified-laboratories/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-011
Pennsylvania DEP	http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx	68-03307 (Registration)
PJLA (DoD ELAP)	http://www.pjlabs.com/search-accredited-labs	65818 (Testing)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html	T104704413-22-13
Utah DOH (NELAP)	https://uphl.utah.gov/certifications/environmental-laboratory-certification/	CA016272022-14
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946
Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website. Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.		

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: WSP USA Inc.
Project ID: Former Emerson Power Transmission Facility / 31405608.001

Service Request: P2301250

Date Received: 3/20/2023
Time Received: 14:30

TO-15 - VOC Cans LL

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	
SS-BLDG1	P2301250-001	Air	3/16/2023	16:15	AC02015	-3.71	3.83	X
SS-BLDG2-1	P2301250-002	Air	3/16/2023	17:50	AC02250	-4.20	3.75	X
SS-BLDG2-2	P2301250-003	Air	3/16/2023	16:10	AS01743	-3.21	3.92	X
SS-BLDG3	P2301250-004	Air	3/16/2023	16:34	AS01454	-3.41	3.84	X
SS-BLDG4-1	P2301250-005	Air	3/16/2023	16:43	AS01256	-3.29	3.85	X
SS-BLDG4-2	P2301250-006	Air	3/16/2023	16:27	AS01356	-3.29	4.32	X
SS-BLDG5	P2301250-007	Air	3/16/2023	16:20	AS01284	-2.88	3.72	X
SS-BLDG6A-1	P2301250-008	Air	3/16/2023	16:50	AS01226	-4.02	3.83	X
SS-BLDG6A-2	P2301250-009	Air	3/16/2023	16:17	AS00657	-3.31	4.18	X
SS-BLDG8	P2301250-010	Air	3/16/2023	16:54	AC02268	-3.50	4.13	X
SS-BLDG9	P2301250-011	Air	3/16/2023	17:25	SC00778	-3.78	4.14	X
SS-BLDG10	P2301250-012	Air	3/16/2023	17:33	AC02288	-4.07	3.86	X
SS-BLDG11A	P2301250-013	Air	3/16/2023	16:06	AC01850	-2.62	4.90	X
SS-BLDG13A	P2301250-014	Air	3/16/2023	17:00	AC02291	-2.92	3.78	X
SS-BLDG13B	P2301250-015	Air	3/16/2023	17:05	SC00921	-3.75	4.08	X
SS-BLDG18	P2301250-016	Air	3/16/2023	16:35	SC02356	-11.33	3.50	X
SS-BLDG21-1	P2301250-017	Air	3/16/2023	17:32	AS01666	-3.15	4.60	X
SS-BLDG21-2	P2301250-018	Air	3/16/2023	17:39	AC02225	-3.41	3.61	X
SS-BLDG24-1	P2301250-019	Air	3/16/2023	15:46	AS01189	-2.29	3.84	X
SS-BLDG24-2	P2301250-020	Air	3/16/2023	12:23	AC02472	0.59	3.80	X
SS-BLDG33-1	P2301250-021	Air	3/16/2023	16:41	AC02069	-3.40	4.44	X
SS-BLDG33-2	P2301250-022	Air	3/16/2023	16:15	AS01484	-3.23	3.77	X
SS-BLDG34-1	P2301250-023	Air	3/16/2023	14:38	AC02447	-2.83	3.94	X
SS-BLDG34-2	P2301250-024	Air	3/16/2023	16:08	AS00640	-4.19	3.81	X
SS-BLDG34-3	P2301250-025	Air	3/16/2023	16:13	AC02389	-3.35	3.81	X
SS-BLDG34-4	P2301250-026	Air	3/16/2023	16:10	AC01918	-4.90	4.25	X
SS-031523A	P2301250-027	Air	3/16/2023	17:33	AS01009	-3.42	3.90	X
SS-031523B	P2301250-028	Air	3/16/2023	16:08	AC02414	-4.03	3.61	X
IA-BLDG1-1	P2301250-029	Air	3/16/2023	13:30	AS01093	-2.46	3.58	X
IA-BLDG1-2	P2301250-030	Air	3/16/2023	13:35	SC00533	-2.43	3.72	X
IA-BLDG2-1	P2301250-031	Air	3/16/2023	13:11	AC02204	-1.32	3.80	X
IA-BLDG2-2	P2301250-032	Air	3/16/2023	11:02	AS01712	-2.68	3.79	X
IA-BLDG3	P2301250-033	Air	3/16/2023	12:40	SC00151	-1.18	3.84	X
IA-BLDG4-1	P2301250-034	Air	3/16/2023	12:02	AC02002	-2.21	3.53	X
IA-BLDG4-2	P2301250-035	Air	3/16/2023	12:55	SC01645	-2.73	3.64	X
IA-BLDG5	P2301250-036	Air	3/16/2023	11:55	AS01023	-1.95	3.57	X
IA-BLDG6A-1	P2301250-037	Air	3/16/2023	13:15	AC02519	-1.64	3.71	X
IA-BLDG6A-2	P2301250-038	Air	3/16/2023	14:08	AC02387	-1.12	3.73	X
IA-BLDG8	P2301250-039	Air	3/16/2023	12:51	AC02349	-1.85	3.76	X
IA-BLDG9	P2301250-040	Air	3/16/2023	13:09	AS01610	-2.40	3.60	X

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: WSP USA Inc.
Project ID: Former Emerson Power Transmission Facility / 31405608.001

Service Request: P2301250

Date Received: 3/20/2023
Time Received: 14:30

TO-15 - VOC Cans LL

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	
IA-BLDG10	P2301250-041	Air	3/16/2023	15:17	AC02385	-1.85	4.04	X
IA-BLDG11A	P2301250-042	Air	3/16/2023	12:15	AC02215	-1.11	4.00	X
IA-BLDG13A	P2301250-043	Air	3/16/2023	12:46	AC02339	-1.78	3.99	X
IA-BLDG13B	P2301250-044	Air	3/16/2023	17:45	AS00760	-6.42	4.21	X
IA-BLDG21-1	P2301250-045	Air	3/16/2023	17:35	AC02348	-5.51	4.61	X
IA-BLDG21-2	P2301250-046	Air	3/16/2023	13:37	AS01152	-1.82	4.44	X
IA-BLDG24-1	P2301250-047	Air	3/16/2023	12:25	AC02172	-0.15	3.97	X
IA-BLDG24-2	P2301250-048	Air	3/16/2023	11:45	SC01810	-0.96	4.21	X
IA-BLDG33-1	P2301250-049	Air	3/16/2023	12:57	SC01086	-0.84	3.68	X
IA-BLDG33-2	P2301250-050	Air	3/16/2023	12:53	AC02372	-1.52	3.86	X
IA-BLDG34-1	P2301250-051	Air	3/16/2023	11:45	AC02261	-2.21	4.93	X
IA-BLDG34-2	P2301250-052	Air	3/16/2023	11:40	AC02226	-1.98	5.11	X
IA-BLDG34-3	P2301250-053	Air	3/16/2023	12:50	AC02522	-1.67	5.55	X
IA-BLDG34-4	P2301250-054	Air	3/16/2023	11:50	AC02148	-0.56	3.85	X
IA-031523A	P2301250-055	Air	3/16/2023	07:30	AS01617	0.48	3.73	X
OA-031523A	P2301250-056	Air	3/16/2023	12:30	SSC00589	-0.73	3.67	X
OA-031523B	P2301250-057	Air	3/16/2023	13:50	SC02093	-0.17	3.63	X
IA-031523BR	P2301250-058	Air	3/16/2023	15:55	AS01482	0.11	3.71	X
IA-BLDG18	P2301250-059	Air	3/17/2023	08:13	AS01352	-0.52	3.75	X

ALS Environmental Sample Acceptance Check Form

Client: WSP USA Inc. Work order: P2301250
 Project: Former Emerson Power Transmission Facility / 31405608.001
 Sample(s) received on: 3/20/23 Date opened: 3/20/23 by: DENISE.POSADA

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- | | Yes | No | N/A |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were sample containers properly marked with client sample ID? | ☒ | ☐ | ☐ |
| 2 Did sample containers arrive in good condition? | ☒ | ☐ | ☐ |
| 3 Were chain-of-custody papers used and filled out? | ☒ | ☐ | ☐ |
| 4 Did sample container labels and/or tags agree with custody papers? | ☒ | ☐ | ☐ |
| 5 Was sample volume received adequate for analysis? | ☒ | ☐ | ☐ |
| 6 Are samples within specified holding times? | ☒ | ☐ | ☐ |
| 7 Was proper temperature (thermal preservation) of cooler at receipt adhered to? | ☐ | ☐ | ☒ |
| 8 Were custody seals on outside of cooler/Box/Container? | ☐ | ☒ | ☐ |
| Location of seal(s)? _____ Sealing Lid? | ☐ | ☐ | ☒ |
| Were signature and date included? | ☐ | ☐ | ☒ |
| Were seals intact? | ☐ | ☐ | ☒ |
| 9 Do containers have appropriate preservation , according to method/SOP or Client specified information? | ☐ | ☐ | ☒ |
| Is there a client indication that the submitted samples are pH preserved? | ☐ | ☐ | ☒ |
| Were VOA vials checked for presence/absence of air bubbles? | ☐ | ☐ | ☒ |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | ☐ | ☐ | ☒ |
| 10 Tubes: Are the tubes capped and intact? | ☐ | ☐ | ☒ |
| 11 Badges: Are the badges properly capped and intact? | ☐ | ☐ | ☒ |
| Are dual bed badges separated and individually capped and intact? | ☐ | ☐ | ☒ |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2301250-001.01	6.0 L Ambient Can					
P2301250-002.01	6.0 L Ambient Can					
P2301250-003.01	6.0 L Silonite Can					
P2301250-004.01	6.0 L Silonite Can					
P2301250-005.01	6.0 L Silonite Can					
P2301250-006.01	6.0 L Silonite Can					
P2301250-007.01	6.0 L Silonite Can					
P2301250-008.01	6.0 L Silonite Can					
P2301250-009.01	6.0 L Silonite Can					
P2301250-010.01	6.0 L Ambient Can					
P2301250-011.01	6.0 L Source Can					
P2301250-012.01	6.0 L Ambient Can					
P2301250-013.01	6.0 L Ambient Can					
P2301250-014.01	6.0 L Ambient Can					
P2301250-015.01	6.0 L Source Can					

Explain any discrepancies: (include lab sample ID numbers): _____

Sulfur in H₂O (pH>4)

ALS Environmental
Sample Acceptance Check Form

Client: WSP USA Inc. Work order: P2301250
 Project: Former Emerson Power Transmission Facility / 31405608.001
 Sample(s) received on: 3/20/23 Date opened: 3/20/23 by: DENISE.POSADA

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2301250-016.01	6.0 L Source Can					
P2301250-017.01	6.0 L Silonite Can					
P2301250-018.01	6.0 L Ambient Can					
P2301250-019.01	6.0 L Silonite Can					
P2301250-020.01	6.0 L Ambient Can					
P2301250-021.01	6.0 L Ambient Can					
P2301250-022.01	6.0 L Silonite Can					
P2301250-023.01	6.0 L Ambient Can					
P2301250-024.01	6.0 L Silonite Can					
P2301250-025.01	6.0 L Ambient Can					
P2301250-026.01	6.0 L Ambient Can					
P2301250-027.01	6.0 L Silonite Can					
P2301250-028.01	6.0 L Ambient Can					
P2301250-029.01	6.0 L Silonite Can					
P2301250-030.01	6.0 L Source Can					
P2301250-031.01	6.0 L Ambient Can					
P2301250-032.01	6.0 L Silonite Can					
P2301250-033.01	6.0 L Source Can					
P2301250-034.01	6.0 L Ambient Can					
P2301250-035.01	6.0 L Source Can					
P2301250-036.01	6.0 L Silonite Can					
P2301250-037.01	6.0 L Ambient Can					Canister ID - AC02519
P2301250-038.01	6.0 L Ambient Can					
P2301250-039.01	6.0 L Ambient Can					
P2301250-040.01	6.0 L Silonite Can					
P2301250-041.01	6.0 L Ambient Can					
P2301250-042.01	6.0 L Ambient Can					
P2301250-043.01	6.0 L Ambient Can					
P2301250-044.01	6.0 L Silonite Can					
P2301250-045.01	6.0 L Ambient Can					
P2301250-046.01	6.0 L Silonite Can					
P2301250-047.01	6.0 L Ambient Can					
P2301250-048.01	6.0 L Source Can					
P2301250-049.01	6.0 L Source Can					
P2301250-050.01	6.0 L Ambient Can					
P2301250-051.01	6.0 L Ambient Can					
P2301250-052.01	6.0 L Ambient Can					
P2301250-053.01	6.0 L Ambient Can					
P2301250-054.01	6.0 L Ambient Can					
P2301250-055.01	6.0 L Silonite Can					

Explain any discrepancies: (include lab sample ID numbers): _____

Client: WSP USA Inc.	Work order: P2301250
Project: Former Emerson Power Transmission Facility / 31405608.001	
Sample(s) received on: 3/20/23	Date opened: 3/20/23 by: DENISE.POSADA

[illegible]

Explain any discrepancies: (include lab sample ID numbers):

P2301250_WSP USA Inc._Former Emerson Power Transmission Facility_ 31405608.001.xls - Page 3 of 3

3/30/23 3:00 PM

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY

Customer Sample Code	Laboratory Sample Code	Analytical					
		*VOA GC/MS Method #	*BNA GC/MS Method #	*VOA GC Method #	*Pest PCBs Method #	*Metals	*Other
SS-BLDG1	P2301250-001	EPA TO-15					
SS-BLDG2-1	P2301250-002	EPA TO-15					
SS-BLDG2-2	P2301250-003	EPA TO-15					
SS-BLDG3	P2301250-004	EPA TO-15					
SS-BLDG4-1	P2301250-005	EPA TO-15					
SS-BLDG4-2	P2301250-006	EPA TO-15					
SS-BLDG5	P2301250-007	EPA TO-15					
SS-BLDG6A-1	P2301250-008	EPA TO-15					
SS-BLDG6A-2	P2301250-009	EPA TO-15					
SS-BLDG8	P2301250-010	EPA TO-15					
SS-BLDG9	P2301250-011	EPA TO-15					
SS-BLDG10	P2301250-012	EPA TO-15					
SS-BLDG11A	P2301250-013	EPA TO-15					
SS-BLDG13A	P2301250-014	EPA TO-15					
SS-BLDG13B	P2301250-015	EPA TO-15					
SS-BLDG18	P2301250-016	EPA TO-15					
SS-BLDG21-1	P2301250-017	EPA TO-15					
SS-BLDG21-2	P2301250-018	EPA TO-15					
SS-BLDG24-1	P2301250-019	EPA TO-15					
SS-BLDG24-2	P2301250-020	EPA TO-15					
SS-BLDG33-1	P2301250-021	EPA TO-15					
SS-BLDG33-2	P2301250-022	EPA TO-15					
SS-BLDG34-1	P2301250-023	EPA TO-15					
SS-BLDG34-2	P2301250-024	EPA TO-15					
SS-BLDG34-3	P2301250-025	EPA TO-15					
SS-BLDG34-4	P2301250-026	EPA TO-15					
SS-031523A	P2301250-027	EPA TO-15					
SS-031523B	P2301250-028	EPA TO-15					
IA-BLDG1-1	P2301250-029	EPA TO-15					
IA-BLDG1-2	P2301250-030	EPA TO-15					
IA-BLDG2-1	P2301250-031	EPA TO-15					
IA-BLDG2-2	P2301250-032	EPA TO-15					
IA-BLDG3	P2301250-033	EPA TO-15					
IA-BLDG4-1	P2301250-034	EPA TO-15					
IA-BLDG4-2	P2301250-035	EPA TO-15					
IA-BLDG5	P2301250-036	EPA TO-15					
IA-BLDG6A-1	P2301250-037	EPA TO-15					
IA-BLDG6A-2	P2301250-038	EPA TO-15					
IA-BLDG8	P2301250-039	EPA TO-15					
IA-BLDG9	P2301250-040	EPA TO-15					

IA-BLDG10	P2301250-041	EPA TO-15					
IA-BLDG11A	P2301250-042	EPA TO-15					
IA-BLDG13A	P2301250-043	EPA TO-15					
IA-BLDG13B	P2301250-044	EPA TO-15					
IA-BLDG21-1	P2301250-045	EPA TO-15					
IA-BLDG21-2	P2301250-046	EPA TO-15					
IA-BLDG24-1	P2301250-047	EPA TO-15					
IA-BLDG24-2	P2301250-048	EPA TO-15					
IA-BLDG33-1	P2301250-049	EPA TO-15					
IA-BLDG33-2	P2301250-050	EPA TO-15					
IA-BLDG34-1	P2301250-051	EPA TO-15					
IA-BLDG34-2	P2301250-052	EPA TO-15					
IA-BLDG34-3	P2301250-053	EPA TO-15					
IA-BLDG34-4	P2301250-054	EPA TO-15					
IA-031523A	P2301250-055	EPA TO-15					
OA-031523A	P2301250-056	EPA TO-15					
OA-031523B	P2301250-057	EPA TO-15					
IA-031523BR	P2301250-058	EPA TO-15					
IA-BLDG18	P2301250-059	EPA TO-15					

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE (VOA)
ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
P2301250-001	Air	3/16/2023	3/20/2023	NA	3/23/23
P2301250-002	Air	3/16/2023	3/20/2023	NA	3/23/23
P2301250-003	Air	3/16/2023	3/20/2023	NA	3/23/23
P2301250-004	Air	3/16/2023	3/20/2023	NA	3/24/23
P2301250-005	Air	3/16/2023	3/20/2023	NA	3/23/23
P2301250-006	Air	3/16/2023	3/20/2023	NA	3/23/23
P2301250-007	Air	3/16/2023	3/20/2023	NA	3/23-24/2023
P2301250-008	Air	3/16/2023	3/20/2023	NA	3/24/23
P2301250-009	Air	3/16/2023	3/20/2023	NA	3/24/23
P2301250-010	Air	3/16/2023	3/20/2023	NA	3/24/23
P2301250-011	Air	3/16/2023	3/20/2023	NA	3/24/23
P2301250-012	Air	3/16/2023	3/20/2023	NA	3/24/23
P2301250-013	Air	3/16/2023	3/20/2023	NA	3/24-27/23
P2301250-014	Air	3/16/2023	3/20/2023	NA	3/24-27/23
P2301250-015	Air	3/16/2023	3/20/2023	NA	3/24-27/23
P2301250-016	Air	3/16/2023	3/20/2023	NA	3/24-28/2023
P2301250-017	Air	3/16/2023	3/20/2023	NA	3/24/23
P2301250-018	Air	3/16/2023	3/20/2023	NA	3/24-27/23
P2301250-019	Air	3/16/2023	3/20/2023	NA	3/24/23
P2301250-020	Air	3/16/2023	3/20/2023	NA	3/24/23
P2301250-021	Air	3/16/2023	3/20/2023	NA	3/24/23
P2301250-022	Air	3/16/2023	3/20/2023	NA	3/24/23
P2301250-023	Air	3/16/2023	3/20/2023	NA	3/24/23
P2301250-024	Air	3/16/2023	3/20/2023	NA	3/24/23
P2301250-025	Air	3/16/2023	3/20/2023	NA	3/24/23
P2301250-026	Air	3/16/2023	3/20/2023	NA	3/24/23
P2301250-027	Air	3/16/2023	3/20/2023	NA	3/27/23
P2301250-028	Air	3/16/2023	3/20/2023	NA	3/27/23
P2301250-029	Air	3/16/2023	3/20/2023	NA	3/24/23
P2301250-030	Air	3/16/2023	3/20/2023	NA	3/27/23
P2301250-031	Air	3/16/2023	3/20/2023	NA	3/27/23
P2301250-032	Air	3/16/2023	3/20/2023	NA	3/27/23
P2301250-033	Air	3/16/2023	3/20/2023	NA	3/27/23
P2301250-034	Air	3/16/2023	3/20/2023	NA	3/27/23
P2301250-035	Air	3/16/2023	3/20/2023	NA	3/27/23
P2301250-036	Air	3/16/2023	3/20/2023	NA	3/27/23
P2301250-037	Air	3/16/2023	3/20/2023	NA	3/27/23
P2301250-038	Air	3/16/2023	3/20/2023	NA	3/27/23
P2301250-039	Air	3/16/2023	3/20/2023	NA	3/24/23
P2301250-040	Air	3/16/2023	3/20/2023	NA	3/24/23
P2301250-041	Air	3/16/2023	3/20/2023	NA	3/24/23
P2301250-042	Air	3/16/2023	3/20/2023	NA	3/24/23

P2301250-043	Air	3/16/2023	3/20/2023	NA	3/24/23
P2301250-044	Air	3/16/2023	3/20/2023	NA	3/24/23
P2301250-045	Air	3/16/2023	3/20/2023	NA	3/24/23
P2301250-046	Air	3/16/2023	3/20/2023	NA	3/24/23
P2301250-047	Air	3/16/2023	3/20/2023	NA	3/24/23
P2301250-048	Air	3/16/2023	3/20/2023	NA	3/24/23
P2301250-049	Air	3/16/2023	3/20/2023	NA	3/24/23
P2301250-050	Air	3/16/2023	3/20/2023	NA	3/24/23
P2301250-051	Air	3/16/2023	3/20/2023	NA	3/24/23
P2301250-052	Air	3/16/2023	3/20/2023	NA	3/24/23
P2301250-053	Air	3/16/2023	3/20/2023	NA	3/24/23
P2301250-054	Air	3/16/2023	3/20/2023	NA	3/24/23
P2301250-055	Air	3/16/2023	3/20/2023	NA	3/27/23
P2301250-056	Air	3/16/2023	3/20/2023	NA	3/27/23
P2301250-057	Air	3/16/2023	3/20/2023	NA	3/27/23
P2301250-058	Air	3/16/2023	3/20/2023	NA	3/27/23
P2301250-059	Air	3/17/2023	3/20/2023	NA	3/27/23

Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A
Simi Valley, California 93065
Phone (805) 526-7161

(ALS) Simi Valley, California 93065
Phone (805) 526-7161

Requested Turnaround Time in Business Days (Surcharges) please circle 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard										ALS Project No.									
Company Name & Address (Reporting Information) WSP Penn Plaza One 250 W 34th St., 4th Fl New York, NY 10119 Project Manager Lisa Kelly Phone 212-465-5334 Fax Email Address for Result Reporting lisa.kelly@wsp.com , dan.cummings@wsp.com Client Sample ID SS-BLDG1 SS-BLDG2-1 SS-BLDG2-2 SS-BLDG3 SS-BLDG4-1 SS-BLDG4-2 SS-BLDG5 SS-BLDG6A-1 SS-BLDG6A-2 SS-BLDG6B SS-BLDG9 SS-BLDG10 SS-BLDG11A SS-BLDG13A												Project Name Former Emerson Power Transmission Facility Project Number 31405608.001 P.O.# / Billing Information US ENV Accounts Payable @usp.com		ALS Contact: Sue Awlerston		Analysis Method see lab task order		Comments e.g. Actual Preservative or specific instructions	
Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume												
1	3/16/23	1615	AC02015	0A01791	-29.82	-6.72	6L	X											
2		1750	AC02250	0A00680	-29.66	-8.76	6L	X											
3		1610	AS01743	0A02001	-29.86	-6.56	6L	X											
4		1634	AS01454	0A02209	-29.57	-7.34	6L	X											
5		1643	AS0125C	0A01301	-28.66	-6.82	6L	X											
6		1627	AS01356	0A01787	-29.68	-6.82	6L	X											
7		1620	AS01284	0A00813	-29.42	-5.96	6L	X											
8		1650	AS0122C	0A01184	-29.54	-8.24	6L	X											
9		1617	AS00657	0A01291	-29.61	-7.17	6L	X											
10		1654	AC02268	0A01780	-29.72	-7.45	6L	X											
11		1725	SC00778	0A02138	-29.90	-7.76	6L	X											
12		1733	AG02188	0A0154D	-29.84	-8.43	6L	X											
13		1606	AG01850	0A02728	-29.71	-5.54	6L	X											
14	✓	1700	AG02291	0A01921	-29.59	-6.54	6L	X											
Report Tier Levels - please select see lab task order Tier I - Results (Default if not specified) _____ Tier II (Results + QC Summaries) _____ Tier III (Results + QC & Calibration Summaries) _____ Tier IV (Data Validation Package) 10% Surcharge _____												Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT		Project Requirements (MRLs, QAPP)					
Requisitioned by: (Signature) Dan Long		Date: 03/17/23	Time: 1130		Received by: (Signature) Felix		Date:		Time:		Cooler / Blank Temperature °C								
Requisitioned by: (Signature) Dan Long		Date:	Time:		Received by: (Signature) DA		Date:		Time: 1437		Cooler / Blank Temperature °C								



Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A
Simi Valley, California 93065
Phone (805) 526-7161

Page 1 of 5

01301950

Company Name & Address (Reporting Information) WSP One Penn Plaza 250 W 34th St., FL 4 New York, NY 10119				Project Name Former Emerson Power Transmission Facility				Requested Turnaround Time in Business Days (Surcharges) please circle 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 6 Day (20%) 7 Day (15%) 8 Day (10%) 9 Day (5%) 10 Day (0%)				ALS Project No. 01301950																			
Project Manager Lisa Kelly				Project Number 31405608-001				ALS Contact: Sue Anderson				Analysis Method																			
Phone 212-465-5334				P.O. # / Billing Information USENVA Accounts Payable @wsp.com				Canister Start Pressure "Hg				Canister End Pressure "Hg/psig		Sample Volume																	
Fax				Environment Accounts Payable WSP Environment Accounts Payable				Flow Controller ID (Bar code # - FC #)				Canister Start Pressure "Hg				Canister End Pressure "Hg/psig				Sample Volume											
Email Address for Result Reporting lisa.kelly@wsp.com, dan.cummings@wsp.com				13530 Dulles Technology Drive, Herndon, VA 20171				Canister ID (Bar code # - AC, SC, etc.)				Canister Start Pressure "Hg				Canister End Pressure "Hg/psig				Sample Volume											
Client Sample ID				Laboratory ID Number				Date Collected				Time Collected				Canister ID (Bar code # - AC, SC, etc.)				Canister Start Pressure "Hg				Canister End Pressure "Hg/psig				Sample Volume			
SS-BLDG13B				15				3/16/23				1705				SC00421				-24.77				-7.74				6L			
SS-BLDG18				16								1635				SC02356				-24.82				-23.30				6L			
SS-BLDG21-1				17								1732				AS01666				-24.72				-6.60				6L			
SS-BLDG21-2				18				*1724				*1724				AC02225				-24.70				-7.13				6L			
SS-BLDG24-1				19								1546				AS01189				-24.71				-6.52				6L			
SS-BLDG24-2				20								1223				AC02472				-24.60				-0.30				6L			
SS-BLDG33-1				21								1641				AC02069				-24.71				-7.94				6L			
SS-BLDG33-2				22								1615				AS01484				-24.81				-6.61				6L			
SS-BLDG34-1				23								1438				AC02447				-24.75				-5.65				6L			
SS-BLDG34-2				24								1608				AS00640				-24.71				-8.56				6L			
SS-BLDG34-3				25								1613				AC02389				-24.70				-6.80				6L			
SS-BLDG34-4				26								1610				AC01918				-24.66				-9.99				6L			
SS-BLDG34-5				27								1733				AS01009				-24.64				-6.98				6L			
SS-BLDG34-6				28				✓				1608				AC02414				-24.67				-8.22				6L			
SS-031523A				29																											
SS-031523B				30																											
SS-031523C				31																											
SS-031523D				32																											
SS-031523E				33																											
SS-031523F				34																											
SS-031523G				35																											
SS-031523H				36																											
SS-031523I				37																											
SS-031523J				38																											
SS-031523K				39																											
SS-031523L				40																											
SS-031523M				41																											
SS-031523N				42																											
SS-031523O				43																											
SS-031523P				44																											
SS-031523Q				45																											
SS-031523R				46																											
SS-031523S				47																											
SS-031523T				48																											
SS-031523U				49																											
SS-031523V				50																											
SS-031523W				51																											
SS-031523X				52																											
SS-031523Y				53																											
SS-031523Z				54																											
SS-031524A				55																											
SS-031524B				56																											
SS-031524C				57																											
SS-031524D				58																											
SS-031524E				59																											
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SS-031524I				63																											
SS-031524J				64																											
SS-031524K				65																											
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SS-031524N				68																											
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SS-031524U				75																											
SS-031524V				76																											
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SS-031524Y				79																											
SS-031524Z				80																											
SS-031525A				81																											
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SS-031525F				86																											
SS-031525G				87																											
SS-031525H				88																											
SS-031525I				89																											
SS-031525J				90																											
SS-031525K				91																											
SS-031525L				92																											
SS-031525M				93																											
SS-031525N				94																											
SS-031525O				95																											
SS-031525P				96																											
SS-031525Q				97																											
SS-031525R				98																											
SS-031525S				99																											
SS-031525T				100																											
SS-031525U				101																											
SS-031525V				102																											
SS-031525W				103																											
SS-031525X				104																											
SS-031525Y				105																											
SS-031525Z				106																											
SS-031526A				107																											
SS-031526B				108																											
SS-031526C				109																											
SS-031526D				110																											
SS-031526E				111																											
SS-031526F				112																											
SS-031526G				113																											
SS-031526H				114																											
SS-031526I				115																											
SS-031526J				116																											
SS-031526K				117																											
SS-031526L				118																											
SS-031526M				119																											
SS-031526N				120																											
SS-031526O				121																											
SS-031526P				122																											
SS-031526Q				123																											
SS-031526R				124																											
SS-031526S				125																											
SS-031526T				126																											
SS-031526U				127																											
SS-031526V				128																											
SS-031526W				129																											
SS-031526X				130																											
SS-031526Y				131																											
SS-031526Z				132																											
SS-031527A				133																											
SS-031527B				134																											
SS-031527C				135																											
SS-031527D				136																											
SS-031527E				137																											
SS-031527F				138																											
SS-031527G				139																											
SS-031527H				140																											
SS-031527I				141																											
SS-031527J				142																											
SS-031527K				143																											
SS-031527L				144																											
SS-031527M				145																											
SS-031527N				146																											
SS-031527O				147																											
SS-031527P				148																											
SS-031527Q				149																											
SS-031527R				150																											
SS-031527S				151																											
SS-031527T				152																											
SS-031527U				153																											
SS-031527V				154																											
SS-031527W				155																											
SS-031527X				156																											
SS-031527Y				157																											
SS-031527Z				158																											
SS-031528A				159																											
SS-031528B				160																											
SS-031528C				161																											
SS-031528D				162																											
SS-031528E				163																											
SS-031528F				164																											



Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A
Simi Valley, California 93065
Phone (805) 526-7161

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200756

Company Name & Address (Reporting Information) WSP One Penn Plaza 250 W 34th St., 4th Fl New York, NY 10119				Project Name Former Emerson Power Transmission Facility				Requested Turnaround Time in Business Days (Surcharges) please circle 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day (Standard)				ALS Project No. 200756											
Project Manager Lisa Kelly				P.O. # / Billing Information 31405608.001 US ENV Accounts Payable@wsp.com				ALS Contact: Sue Anderson				Analysis Method TO-15 NYSDEC see lab task order		Comments e.g. Actual Preservative or specific instructions									
Email Address for Result Reporting lisa.kelly@wsp.com, dcn.commines@wsp.com				Sampler (Print & Sign) Dan Cummings				Flow Controller ID (Bar code # - FC #)				Canister Start Pressure "Hg		Canister End Pressure "Hg/psig		Sample Volume							
Laboratory ID Number				Date Collected				Time Collected				Canister ID (Bar code # - AC, SC, etc.)				Canister Start Pressure "Hg				Canister End Pressure "Hg/psig		Sample Volume	
Client Sample ID				Date				Time				Canister ID				Canister Start Pressure "Hg				Canister End Pressure "Hg/psig		Sample Volume	
IA-BLDG1-1				3/16/25				1330				AS01093				-29.59				-5.04		6L	
IA-BLDG1-2								1335				SC00533				-29.64				-5.00		6L	
IA-BLDG2-1								1311				AC02204				-29.64				-3.07		6L	
IA-BLDG2-2								1102				AS01712				-29.76				5.98		6L	
IA-BLDG3								1240				SC00151				-29.72				-2.70		6L	
IA-BLDG4-1								1202				AC02002				-29.35				-5.05		6L	
IA-BLDG4-2								1255				SC01645				-29.71				-5.75		6L	
IA-BLDG5								1155				AS01023				-29.22				-4.13		6L	
IA-BLDG6A-1								1315				2410621 2410621				-29.51				-3.52		6L	
IA-BLDG6A-2								1408				AC02087				-29.51				-2.41		6L	
IA-BLDG8								1251				AC02349				-28.33				-5.09		6L	
IA-BLDG9								1309				AS01610				-29.72				-3.91		6L	
IA-BLDG10								1517				AC02385				-29.77				-3.74		6L	
IA-BLDG11A								1215				AC02215				-29.61				-2.59		6L	
Report Tier Levels - please select see lab task order												Chain of Custody Seal: (Circle)				Project Requirements (MRLs, QAPP)							
Tier I - Results (Default if not specified)												INTACT				BROKEN				ABSENT			
Tier II (Results + QC Summaries)												Type: _____				Units: _____				Date: _____			
Tier III (Results + QC & Calibration Summaries)												Received by: (Signature)				Time: _____				Date: _____			
Tier IV (Data Validation Package) 10% Surcharge												Received by: (Signature)				Time: _____				Date: _____			
Relinquished by: (Signature)												Date: 03/17/23				Time: 1130				Date: 3/10			
Relinquished by: (Signature)												Date: 03/17/23				Time: 1130				Date: 3/10			

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Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A
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Requested Turnaround Time in Business Days (Surcharges) please circle						ALS Project No.																																																																																																																																																	
1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard																																																																																																																																																							
Company Name & Address (Reporting Information) WSP One Penn Plaza 250 W 34th St., 4th Fl New York, NY 10119 Project Manager Lisa Kelly Phone: 212-465-5334 Email Address for Result Reporting: lisa.kelly@wsp.com, dan.cummings@wsp.com Project Name Former Emerson Power Transmission Facility Project Number 31405608.001 P.O. # / Billing Information USENV Accounts Payable@usp.com ALS Contact: See Anderson Analysis Method (see lab book order) T-15 USDA RC-L-1581																																																																																																																																																							
Sampler (Print & Sign) <table border="1"> <thead> <tr> <th>Laboratory ID Number</th> <th>Date Collected</th> <th>Time Collected</th> <th>Canister ID (Bar code # - AC, SC, etc.)</th> <th>Flow Controller ID (Bar code # - FC #)</th> <th>Canister Start Pressure "Hg</th> <th>Canister End Pressure "Hg/psig</th> <th>Sample Volume</th> <th>Comments e.g. Actual Preservative or specific instructions</th> </tr> </thead> <tbody> <tr> <td>IA-031523B</td> <td></td> <td></td> <td>AC02470</td> <td>SFC00318</td> <td>-27.72</td> <td></td> <td>CL</td> <td>Removed from Chain</td> </tr> <tr> <td>OA-031523A</td> <td>3/16/23</td> <td>1230</td> <td>SSC00589</td> <td>SFC00282</td> <td>-24.54</td> <td>-2.50</td> <td>CL</td> <td></td> </tr> <tr> <td>OA-031523C</td> <td>↓</td> <td>1350</td> <td>SC02053</td> <td>SFC00703</td> <td>-24.72</td> <td>-1.14</td> <td>CL</td> <td></td> </tr> <tr> <td>IA-031523BR</td> <td>↓</td> <td>1555</td> <td>AS01482</td> <td>SFC00451</td> <td>-29.74</td> <td>-1.20</td> <td>CL</td> <td></td> </tr> <tr> <td>IABLDG18</td> <td>3/17/23</td> <td>0813</td> <td>ASN352</td> <td>SFC00207</td> <td>-29.29</td> <td>-1.51</td> <td>CL</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>can't don't</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>used/don't</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>analyze:</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>AC02470, AS01751</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>AC02062, AC02483</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>SC02316, AC00416</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>AS00623</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	Comments e.g. Actual Preservative or specific instructions	IA-031523B			AC02470	SFC00318	-27.72		CL	Removed from Chain	OA-031523A	3/16/23	1230	SSC00589	SFC00282	-24.54	-2.50	CL		OA-031523C	↓	1350	SC02053	SFC00703	-24.72	-1.14	CL		IA-031523BR	↓	1555	AS01482	SFC00451	-29.74	-1.20	CL		IABLDG18	3/17/23	0813	ASN352	SFC00207	-29.29	-1.51	CL										can't don't									used/don't									analyze:									AC02470, AS01751									AC02062, AC02483									SC02316, AC00416									AS00623																											
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Relinquished by: (Signature) _____ Date: 03/17/23 Time: 1130 Relinquished by: (Signature) _____ Date: _____ Time: _____ Received by: (Signature) _____ Date: _____ Time: _____ Received by: (Signature) _____ Date: 3/20 Time: 1130 Cooler / Blank Temperature _____ °C																																																																																																																																																							

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 3

Client: WSP USA Inc.
Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Topacio Zavala/Wida Ang
Sample Type: 6.0 L Summa Canister(s) / 6.0 L Silonite Canister(s)
Test Notes:

Date(s) Collected: 3/16 - 3/17/23
Date(s) Received: 3/20/23
Date(s) Analyzed: 3/23 - 3/28/23

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P230323-MB	101	98	95	70-130	
Method Blank	P230324-MB	102	96	94	70-130	
Method Blank	P230324-MB	109	98	90	70-130	
Method Blank	P230327-MB	104	97	90	70-130	
Method Blank	P230327-MB	109	99	90	70-130	
Method Blank	P230328-MB	108	93	91	70-130	
Lab Control Sample	P230323-LCS	100	97	99	70-130	
Lab Control Sample	P230324-LCS	101	95	95	70-130	
Lab Control Sample	P230324-LCS	108	97	92	70-130	
Lab Control Sample	P230327-LCS	104	96	93	70-130	
Lab Control Sample	P230327-LCS	109	99	94	70-130	
Lab Control Sample	P230328-LCS	104	92	92	70-130	
Duplicate Lab Control Sample	P230323-DLCS	100	98	99	70-130	
Duplicate Lab Control Sample	P230324-DLCS	101	97	95	70-130	
Duplicate Lab Control Sample	P230324-DLCS	109	96	93	70-130	
Duplicate Lab Control Sample	P230327-DLCS	104	96	94	70-130	
Duplicate Lab Control Sample	P230327-DLCS	108	98	95	70-130	
Duplicate Lab Control Sample	P230328-DLCS	103	92	92	70-130	
SS-BLDG1	P2301250-001	103	91	99	70-130	
SS-BLDG2-1	P2301250-002	102	93	98	70-130	
SS-BLDG2-2	P2301250-003	103	93	95	70-130	
SS-BLDG3	P2301250-004	99	96	91	70-130	
SS-BLDG4-1	P2301250-005	103	95	95	70-130	
SS-BLDG4-2	P2301250-006	104	97	96	70-130	
SS-BLDG5	P2301250-007	102	95	95	70-130	
SS-BLDG6A-1	P2301250-008	100	93	94	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Page 2 of 3

Client: WSP USA Inc.

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date(s) Collected: 3/16 - 3/17/23

Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date(s) Received: 3/20/23

Analyst: Topacio Zavala/Wida Ang

Date(s) Analyzed: 3/23 - 3/28/23

Sample Type: 6.0 L Summa Canister(s) / 6.0 L Silonite Canister(s)

Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
SS-BLDG6A-2	P2301250-009	102	91	96	70-130	
SS-BLDG8	P2301250-010	101	92	95	70-130	
SS-BLDG9	P2301250-011	102	95	97	70-130	
SS-BLDG10	P2301250-012	102	91	96	70-130	
SS-BLDG11A	P2301250-013	104	91	95	70-130	
SS-BLDG13A	P2301250-014	104	86	91	70-130	
SS-BLDG13B	P2301250-015	102	90	94	70-130	
SS-BLDG18	P2301250-016	104	88	89	70-130	
SS-BLDG21-1	P2301250-017	102	93	94	70-130	
SS-BLDG21-2	P2301250-018	102	93	94	70-130	
SS-BLDG24-1	P2301250-019	102	93	94	70-130	
SS-BLDG24-2	P2301250-020	103	95	95	70-130	
SS-BLDG33-1	P2301250-021	105	94	93	70-130	
SS-BLDG33-2	P2301250-022	102	92	93	70-130	
SS-BLDG34-1	P2301250-023	102	94	96	70-130	
SS-BLDG34-2	P2301250-024	102	94	96	70-130	
SS-BLDG34-3	P2301250-025	102	93	93	70-130	
SS-BLDG34-4	P2301250-026	104	94	93	70-130	
SS-031523A	P2301250-027	104	91	94	70-130	
SS-031523B	P2301250-028	105	91	96	70-130	
IA-BLDG1-1	P2301250-029	106	95	92	70-130	
IA-BLDG1-2	P2301250-030	103	93	95	70-130	
IA-BLDG2-1	P2301250-031	106	94	95	70-130	
IA-BLDG2-2	P2301250-032	104	92	94	70-130	
IA-BLDG3	P2301250-033	106	90	95	70-130	
IA-BLDG4-1	P2301250-034	103	97	97	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Page 3 of 3

Client: WSP USA Inc.

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date(s) Collected: 3/16 - 3/17/23

Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date(s) Received: 3/20/23

Analyst: Topacio Zavala/Wida Ang

Date(s) Analyzed: 3/23 - 3/28/23

Sample Type: 6.0 L Summa Canister(s) / 6.0 L Silonite Canister(s)

Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
IA-BLDG4-2	P2301250-035	104	98	97	70-130	
IA-BLDG5	P2301250-036	103	98	97	70-130	
IA-BLDG6A-1	P2301250-037	102	98	99	70-130	
IA-BLDG6A-2	P2301250-038	101	99	102	70-130	
IA-BLDG8	P2301250-039	108	95	92	70-130	
IA-BLDG9	P2301250-040	107	95	93	70-130	
IA-BLDG10	P2301250-041	108	94	93	70-130	
IA-BLDG11A	P2301250-042	108	95	94	70-130	
IA-BLDG13A	P2301250-043	108	93	92	70-130	
IA-BLDG13B	P2301250-044	108	95	92	70-130	
IA-BLDG13B	P2301250-044DUP	109	94	92	70-130	
IA-BLDG21-1	P2301250-045	108	95	93	70-130	
IA-BLDG21-2	P2301250-046	109	94	92	70-130	
IA-BLDG24-1	P2301250-047	109	94	93	70-130	
IA-BLDG24-2	P2301250-048	109	95	93	70-130	
IA-BLDG33-1	P2301250-049	109	94	91	70-130	
IA-BLDG33-2	P2301250-050	108	94	92	70-130	
IA-BLDG34-1	P2301250-051	109	95	91	70-130	
IA-BLDG34-2	P2301250-052	108	95	92	70-130	
IA-BLDG34-3	P2301250-053	109	96	90	70-130	
IA-BLDG34-4	P2301250-054	109	98	93	70-130	
IA-031523A	P2301250-055	107	98	92	70-130	
OA-031523A	P2301250-056	107	98	92	70-130	
OA-031523B	P2301250-057	107	98	92	70-130	
IA-031523BR	P2301250-058	107	97	93	70-130	
IA-BLDG18	P2301250-059	107	97	92	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

Client: WSP USA Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250
 ALS Sample ID: P230323-DLCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Topacio Zavala
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/23/23
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
75-71-8	Dichlorodifluoromethane (CFC 12)	212	184	186	87	88	71-112	1	25	
74-87-3	Chloromethane	210	180	185	86	88	53-126	2	25	
75-01-4	Vinyl Chloride	210	177	188	84	90	63-123	7	25	
74-83-9	Bromomethane	210	179	183	85	87	71-112	2	25	
75-00-3	Chloroethane	212	182	187	86	88	66-117	2	25	
67-64-1	Acetone	1,060	875	898	83	85	60-117	2	25	
75-69-4	Trichlorofluoromethane	210	184	185	88	88	71-114	0	25	
75-35-4	1,1-Dichloroethene	204	183	188	90	92	74-114	2	25	
75-09-2	Methylene Chloride	204	181	185	89	91	75-112	2	25	
76-13-1	Trichlorotrifluoroethane	210	185	188	88	90	73-114	2	25	
75-15-0	Carbon Disulfide	430	341	349	79	81	70-113	3	25	
156-60-5	trans-1,2-Dichloroethene	216	192	196	89	91	76-119	2	25	
75-34-3	1,1-Dichloroethane	216	182	186	84	86	70-114	2	25	
1634-04-4	Methyl tert-Butyl Ether	216	185	190	86	88	72-118	2	25	
78-93-3	2-Butanone (MEK)	414	372	381	90	92	74-121	2	25	
156-59-2	cis-1,2-Dichloroethene	214	182	185	85	86	73-117	1	25	
67-66-3	Chloroform	216	184	187	85	87	71-114	2	25	
107-06-2	1,2-Dichloroethane	204	196	199	96	98	71-119	2	25	
71-55-6	1,1,1-Trichloroethane	210	188	189	90	90	73-119	0	25	
71-43-2	Benzene	204	187	187	92	92	72-113	0	25	
56-23-5	Carbon Tetrachloride	210	202	200	96	95	67-123	1	25	
110-82-7	Cyclohexane	426	367	369	86	87	70-119	1	25	
78-87-5	1,2-Dichloropropane	214	184	186	86	87	70-118	1	25	
75-27-4	Bromodichloromethane	216	193	193	89	89	74-119	0	25	
79-01-6	Trichloroethene	212	187	187	88	88	74-115	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: Duplicate Lab Control Sample

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P230323-DLCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 3/23/23

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
10061-01-5	cis-1,3-Dichloropropene	212	214	214	101	101	81-126	0	25	
108-10-1	4-Methyl-2-pentanone	426	393	398	92	93	73-129	1	25	
10061-02-6	trans-1,3-Dichloropropene	196	182	182	93	93	80-127	0	25	
79-00-5	1,1,2-Trichloroethane	216	187	187	87	87	78-117	0	25	
108-88-3	Toluene	214	174	178	81	83	70-118	2	25	
591-78-6	2-Hexanone	426	380	388	89	91	74-132	2	25	
124-48-1	Dibromochloromethane	214	191	194	89	91	69-137	2	25	
106-93-4	1,2-Dibromoethane	204	181	184	89	90	76-128	1	25	
127-18-4	Tetrachloroethene	214	180	185	84	86	63-130	2	25	
108-90-7	Chlorobenzene	216	180	184	83	85	70-118	2	25	
100-41-4	Ethylbenzene	218	171	175	78	80	71-123	3	25	
179601-23-1	m,p-Xylenes	430	344	349	80	81	67-127	1	25	
75-25-2	Bromoform	218	201	203	92	93	65-149	1	25	
100-42-5	Styrene	214	189	193	88	90	76-132	2	25	
95-47-6	o-Xylene	216	179	181	83	84	69-124	1	25	
79-34-5	1,1,2,2-Tetrachloroethane	216	192	195	89	90	69-128	1	25	
98-82-8	Cumene	212	180	183	85	86	69-125	1	25	
541-73-1	1,3-Dichlorobenzene	214	182	186	85	87	67-136	2	25	
106-46-7	1,4-Dichlorobenzene	214	178	182	83	85	63-134	2	25	
95-50-1	1,2-Dichlorobenzene	212	183	185	86	87	64-139	1	25	
96-12-8	1,2-Dibromo-3-chloropropane	416	383	396	92	95	72-145	3	25	
120-82-1	1,2,4-Trichlorobenzene	440	395	420	90	95	62-154	5	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

Client: WSP USA Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250
 ALS Sample ID: P230324-DLCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Topacio Zavala
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/24/23
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
75-71-8	Dichlorodifluoromethane (CFC 12)	212	184	185	87	87	71-112	0	25	
74-87-3	Chloromethane	210	185	185	88	88	53-126	0	25	
75-01-4	Vinyl Chloride	210	182	184	87	88	63-123	1	25	
74-83-9	Bromomethane	210	182	182	87	87	71-112	0	25	
75-00-3	Chloroethane	212	185	186	87	88	66-117	1	25	
67-64-1	Acetone	1,060	897	903	85	85	60-117	0	25	
75-69-4	Trichlorofluoromethane	210	182	182	87	87	71-114	0	25	
75-35-4	1,1-Dichloroethene	204	184	187	90	92	74-114	2	25	
75-09-2	Methylene Chloride	204	183	184	90	90	75-112	0	25	
76-13-1	Trichlorotrifluoroethane	210	182	182	87	87	73-114	0	25	
75-15-0	Carbon Disulfide	430	346	347	80	81	70-113	1	25	
156-60-5	trans-1,2-Dichloroethene	216	194	196	90	91	76-119	1	25	
75-34-3	1,1-Dichloroethane	216	186	187	86	87	70-114	1	25	
1634-04-4	Methyl tert-Butyl Ether	216	188	188	87	87	72-118	0	25	
78-93-3	2-Butanone (MEK)	414	379	378	92	91	74-121	1	25	
156-59-2	cis-1,2-Dichloroethene	214	186	185	87	86	73-117	1	25	
67-66-3	Chloroform	216	184	186	85	86	71-114	1	25	
107-06-2	1,2-Dichloroethane	204	198	198	97	97	71-119	0	25	
71-55-6	1,1,1-Trichloroethane	210	188	188	90	90	73-119	0	25	
71-43-2	Benzene	204	189	189	93	93	72-113	0	25	
56-23-5	Carbon Tetrachloride	210	201	200	96	95	67-123	1	25	
110-82-7	Cyclohexane	426	370	371	87	87	70-119	0	25	
78-87-5	1,2-Dichloropropane	214	186	187	87	87	70-118	0	25	
75-27-4	Bromodichloromethane	216	193	194	89	90	74-119	1	25	
79-01-6	Trichloroethene	212	186	186	88	88	74-115	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

Client: WSP USA Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250
 ALS Sample ID: P230324-DLCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Topacio Zavala
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/24/23
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
10061-01-5	cis-1,3-Dichloropropene	212	215	215	101	101	81-126	0	25	
108-10-1	4-Methyl-2-pentanone	426	401	405	94	95	73-129	1	25	
10061-02-6	trans-1,3-Dichloropropene	196	184	183	94	93	80-127	1	25	
79-00-5	1,1,2-Trichloroethane	216	185	185	86	86	78-117	0	25	
108-88-3	Toluene	214	171	173	80	81	70-118	1	25	
591-78-6	2-Hexanone	426	383	388	90	91	74-132	1	25	
124-48-1	Dibromochloromethane	214	186	186	87	87	69-137	0	25	
106-93-4	1,2-Dibromoethane	204	177	179	87	88	76-128	1	25	
127-18-4	Tetrachloroethene	214	175	176	82	82	63-130	0	25	
108-90-7	Chlorobenzene	216	175	177	81	82	70-118	1	25	
100-41-4	Ethylbenzene	218	167	169	77	78	71-123	1	25	
179601-23-1	m,p-Xylenes	430	335	339	78	79	67-127	1	25	
75-25-2	Bromoform	218	192	194	88	89	65-149	1	25	
100-42-5	Styrene	214	185	187	86	87	76-132	1	25	
95-47-6	o-Xylene	216	175	177	81	82	69-124	1	25	
79-34-5	1,1,2,2-Tetrachloroethane	216	188	192	87	89	69-128	2	25	
98-82-8	Cumene	212	176	178	83	84	69-125	1	25	
541-73-1	1,3-Dichlorobenzene	214	177	179	83	84	67-136	1	25	
106-46-7	1,4-Dichlorobenzene	214	172	176	80	82	63-134	2	25	
95-50-1	1,2-Dichlorobenzene	212	177	180	83	85	64-139	2	25	
96-12-8	1,2-Dibromo-3-chloropropane	416	369	379	89	91	72-145	2	25	
120-82-1	1,2,4-Trichlorobenzene	440	387	402	88	91	62-154	3	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

Client: WSP USA Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250
 ALS Sample ID: P230324-DLCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/24/23
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
75-71-8	Dichlorodifluoromethane (CFC 12)	42.4	41.9	44.2	99	104	71-112	5	25	
74-87-3	Chloromethane	42.0	37.3	40.0	89	95	53-126	7	25	
75-01-4	Vinyl Chloride	42.0	42.1	44.7	100	106	63-123	6	25	
74-83-9	Bromomethane	42.0	39.4	41.4	94	99	71-112	5	25	
75-00-3	Chloroethane	42.4	38.6	39.7	91	94	66-117	3	25	
67-64-1	Acetone	212	179	186	84	88	60-117	5	25	
75-69-4	Trichlorofluoromethane	42.0	41.3	42.7	98	102	71-114	4	25	
75-35-4	1,1-Dichloroethene	40.8	38.2	39.8	94	98	74-114	4	25	
75-09-2	Methylene Chloride	40.8	40.1	41.5	98	102	75-112	4	25	
76-13-1	Trichlorotrifluoroethane	42.0	37.5	38.5	89	92	73-114	3	25	
75-15-0	Carbon Disulfide	86.0	79.4	81.9	92	95	70-113	3	25	
156-60-5	trans-1,2-Dichloroethene	43.2	38.8	40.5	90	94	76-119	4	25	
75-34-3	1,1-Dichloroethane	43.2	39.0	40.4	90	94	70-114	4	25	
1634-04-4	Methyl tert-Butyl Ether	43.2	44.1	45.0	102	104	72-118	2	25	
78-93-3	2-Butanone (MEK)	82.8	84.9	88.6	103	107	74-121	4	25	
156-59-2	cis-1,2-Dichloroethene	42.8	37.1	38.3	87	89	73-117	2	25	
67-66-3	Chloroform	43.2	41.9	43.6	97	101	71-114	4	25	
107-06-2	1,2-Dichloroethane	40.8	42.9	44.6	105	109	71-119	4	25	
71-55-6	1,1,1-Trichloroethane	42.0	40.2	41.5	96	99	73-119	3	25	
71-43-2	Benzene	40.8	39.8	41.1	98	101	72-113	3	25	
56-23-5	Carbon Tetrachloride	42.0	42.3	43.8	101	104	67-123	3	25	
110-82-7	Cyclohexane	85.2	78.9	81.7	93	96	70-119	3	25	
78-87-5	1,2-Dichloropropane	42.8	38.0	39.2	89	92	70-118	3	25	
75-27-4	Bromodichloromethane	43.2	42.4	43.9	98	102	74-119	4	25	
79-01-6	Trichloroethene	42.4	39.1	41.0	92	97	74-115	5	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

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Client: WSP USA Inc.

Client Sample ID: Duplicate Lab Control Sample

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P230324-DLCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 3/24/23

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
10061-01-5	cis-1,3-Dichloropropene	42.4	45.9	47.5	108	112	81-126	4	25	
108-10-1	4-Methyl-2-pentanone	85.2	91.3	94.0	107	110	73-129	3	25	
10061-02-6	trans-1,3-Dichloropropene	39.2	33.6	35.0	86	89	80-127	3	25	
79-00-5	1,1,2-Trichloroethane	43.2	39.7	41.5	92	96	78-117	4	25	
108-88-3	Toluene	42.8	36.4	37.2	85	87	70-118	2	25	
591-78-6	2-Hexanone	85.2	88.3	90.2	104	106	74-132	2	25	
124-48-1	Dibromochloromethane	42.8	36.6	37.7	86	88	69-137	2	25	
106-93-4	1,2-Dibromoethane	40.8	37.4	38.2	92	94	76-128	2	25	
127-18-4	Tetrachloroethene	42.8	36.4	37.1	85	87	63-130	2	25	
108-90-7	Chlorobenzene	43.2	35.6	36.5	82	84	70-118	2	25	
100-41-4	Ethylbenzene	43.6	37.4	38.0	86	87	71-123	1	25	
179601-23-1	m,p-Xylenes	86.0	72.1	73.7	84	86	67-127	2	25	
75-25-2	Bromoform	43.6	34.6	35.2	79	81	65-149	3	25	
100-42-5	Styrene	42.8	37.1	38.1	87	89	76-132	2	25	
95-47-6	o-Xylene	43.2	37.6	38.4	87	89	69-124	2	25	
79-34-5	1,1,2,2-Tetrachloroethane	43.2	40.4	41.3	94	96	69-128	2	25	
98-82-8	Cumene	42.4	37.8	38.6	89	91	69-125	2	25	
541-73-1	1,3-Dichlorobenzene	42.8	35.4	36.0	83	84	67-136	1	25	
106-46-7	1,4-Dichlorobenzene	42.8	31.6	32.5	74	76	63-134	3	25	
95-50-1	1,2-Dichlorobenzene	42.4	36.6	37.1	86	88	64-139	2	25	
96-12-8	1,2-Dibromo-3-chloropropane	83.2	71.6	73.2	86	88	72-145	2	25	
120-82-1	1,2,4-Trichlorobenzene	88.0	61.9	63.2	70	72	62-154	3	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

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Client: WSP USA Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250
 ALS Sample ID: P230327-DLCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/27/23
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
75-71-8	Dichlorodifluoromethane (CFC 12)	212	210	208	99	98	71-112	1	25	
74-87-3	Chloromethane	210	223	222	106	106	53-126	0	25	
75-01-4	Vinyl Chloride	210	197	196	94	93	63-123	1	25	
74-83-9	Bromomethane	210	208	207	99	99	71-112	0	25	
75-00-3	Chloroethane	212	216	214	102	101	66-117	1	25	
67-64-1	Acetone	1,060	1050	1040	99	98	60-117	1	25	
75-69-4	Trichlorofluoromethane	210	208	206	99	98	71-114	1	25	
75-35-4	1,1-Dichloroethene	204	215	213	105	104	74-114	1	25	
75-09-2	Methylene Chloride	204	211	210	103	103	75-112	0	25	
76-13-1	Trichlorotrifluoroethane	210	210	207	100	99	73-114	1	25	
75-15-0	Carbon Disulfide	430	403	398	94	93	70-113	1	25	
156-60-5	trans-1,2-Dichloroethene	216	228	225	106	104	76-119	2	25	
75-34-3	1,1-Dichloroethane	216	218	215	101	100	70-114	1	25	
1634-04-4	Methyl tert-Butyl Ether	216	220	217	102	100	72-118	2	25	
78-93-3	2-Butanone (MEK)	414	442	439	107	106	74-121	0.9	25	
156-59-2	cis-1,2-Dichloroethene	214	216	215	101	100	73-117	1	25	
67-66-3	Chloroform	216	214	210	99	97	71-114	2	25	
107-06-2	1,2-Dichloroethane	204	229	226	112	111	71-119	0.9	25	
71-55-6	1,1,1-Trichloroethane	210	214	209	102	100	73-119	2	25	
71-43-2	Benzene	204	216	213	106	104	72-113	2	25	
56-23-5	Carbon Tetrachloride	210	225	221	107	105	67-123	2	25	
110-82-7	Cyclohexane	426	424	418	100	98	70-119	2	25	
78-87-5	1,2-Dichloropropane	214	216	214	101	100	70-118	1	25	
75-27-4	Bromodichloromethane	216	219	219	101	101	74-119	0	25	
79-01-6	Trichloroethene	212	210	207	99	98	74-115	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

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Client: WSP USA Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250
 ALS Sample ID: P230327-DLCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/27/23
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
10061-01-5	cis-1,3-Dichloropropene	212	248	243	117	115	81-126	2	25	
108-10-1	4-Methyl-2-pentanone	426	473	465	111	109	73-129	2	25	
10061-02-6	trans-1,3-Dichloropropene	196	211	206	108	105	80-127	3	25	
79-00-5	1,1,2-Trichloroethane	216	212	210	98	97	78-117	1	25	
108-88-3	Toluene	214	196	194	92	91	70-118	1	25	
591-78-6	2-Hexanone	426	459	453	108	106	74-132	2	25	
124-48-1	Dibromochloromethane	214	210	208	98	97	69-137	1	25	
106-93-4	1,2-Dibromoethane	204	202	201	99	99	76-128	0	25	
127-18-4	Tetrachloroethene	214	197	195	92	91	63-130	1	25	
108-90-7	Chlorobenzene	216	200	198	93	92	70-118	1	25	
100-41-4	Ethylbenzene	218	192	189	88	87	71-123	1	25	
179601-23-1	m,p-Xylenes	430	384	379	89	88	67-127	1	25	
75-25-2	Bromoform	218	216	214	99	98	65-149	1	25	
100-42-5	Styrene	214	211	209	99	98	76-132	1	25	
95-47-6	o-Xylene	216	200	198	93	92	69-124	1	25	
79-34-5	1,1,2,2-Tetrachloroethane	216	216	214	100	99	69-128	1	25	
98-82-8	Cumene	212	201	198	95	93	69-125	2	25	
541-73-1	1,3-Dichlorobenzene	214	199	198	93	93	67-136	0	25	
106-46-7	1,4-Dichlorobenzene	214	196	194	92	91	63-134	1	25	
95-50-1	1,2-Dichlorobenzene	212	199	198	94	93	64-139	1	25	
96-12-8	1,2-Dibromo-3-chloropropane	416	413	410	99	99	72-145	0	25	
120-82-1	1,2,4-Trichlorobenzene	440	409	411	93	93	62-154	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

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Client: WSP USA Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250
 ALS Sample ID: P230327-DLCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/27/23
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
75-71-8	Dichlorodifluoromethane (CFC 12)	42.4	44.9	44.9	106	106	71-112	0	25	
74-87-3	Chloromethane	42.0	39.9	40.7	95	97	53-126	2	25	
75-01-4	Vinyl Chloride	42.0	43.1	43.1	103	103	63-123	0	25	
74-83-9	Bromomethane	42.0	41.7	41.4	99	99	71-112	0	25	
75-00-3	Chloroethane	42.4	40.3	40.3	95	95	66-117	0	25	
67-64-1	Acetone	212	191	187	90	88	60-117	2	25	
75-69-4	Trichlorofluoromethane	42.0	42.3	42.5	101	101	71-114	0	25	
75-35-4	1,1-Dichloroethene	40.8	40.6	40.3	100	99	74-114	1	25	
75-09-2	Methylene Chloride	40.8	42.6	42.0	104	103	75-112	1	25	
76-13-1	Trichlorotrifluoroethane	42.0	38.9	39.4	93	94	73-114	1	25	
75-15-0	Carbon Disulfide	86.0	83.2	83.1	97	97	70-113	0	25	
156-60-5	trans-1,2-Dichloroethene	43.2	41.2	40.3	95	93	76-119	2	25	
75-34-3	1,1-Dichloroethane	43.2	41.4	40.7	96	94	70-114	2	25	
1634-04-4	Methyl tert-Butyl Ether	43.2	45.2	44.2	105	102	72-118	3	25	
78-93-3	2-Butanone (MEK)	82.8	90.9	88.6	110	107	74-121	3	25	
156-59-2	cis-1,2-Dichloroethene	42.8	39.2	38.5	92	90	73-117	2	25	
67-66-3	Chloroform	43.2	45.1	44.0	104	102	71-114	2	25	
107-06-2	1,2-Dichloroethane	40.8	45.6	44.9	112	110	71-119	2	25	
71-55-6	1,1,1-Trichloroethane	42.0	41.8	41.4	100	99	73-119	1	25	
71-43-2	Benzene	40.8	41.7	41.6	102	102	72-113	0	25	
56-23-5	Carbon Tetrachloride	42.0	44.0	44.2	105	105	67-123	0	25	
110-82-7	Cyclohexane	85.2	82.3	81.1	97	95	70-119	2	25	
78-87-5	1,2-Dichloropropane	42.8	40.2	39.2	94	92	70-118	2	25	
75-27-4	Bromodichloromethane	43.2	44.6	44.1	103	102	74-119	1	25	
79-01-6	Trichloroethene	42.4	41.2	40.7	97	96	74-115	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

Client: WSP USA Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250
 ALS Sample ID: P230327-DLCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/27/23
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
10061-01-5	cis-1,3-Dichloropropene	42.4	47.8	47.6	113	112	81-126	0.9	25	
108-10-1	4-Methyl-2-pentanone	85.2	93.8	93.3	110	110	73-129	0	25	
10061-02-6	trans-1,3-Dichloropropene	39.2	34.9	35.0	89	89	80-127	0	25	
79-00-5	1,1,2-Trichloroethane	43.2	41.7	41.4	97	96	78-117	1	25	
108-88-3	Toluene	42.8	39.3	38.7	92	90	70-118	2	25	
591-78-6	2-Hexanone	85.2	93.4	93.5	110	110	74-132	0	25	
124-48-1	Dibromochloromethane	42.8	39.7	39.3	93	92	69-137	1	25	
106-93-4	1,2-Dibromoethane	40.8	39.8	39.1	98	96	76-128	2	25	
127-18-4	Tetrachloroethene	42.8	39.6	38.9	93	91	63-130	2	25	
108-90-7	Chlorobenzene	43.2	38.2	38.1	88	88	70-118	0	25	
100-41-4	Ethylbenzene	43.6	39.9	39.1	92	90	71-123	2	25	
179601-23-1	m,p-Xylenes	86.0	77.3	75.8	90	88	67-127	2	25	
75-25-2	Bromoform	43.6	37.4	37.5	86	86	65-149	0	25	
100-42-5	Styrene	42.8	39.7	39.4	93	92	76-132	1	25	
95-47-6	o-Xylene	43.2	40.1	39.6	93	92	69-124	1	25	
79-34-5	1,1,2,2-Tetrachloroethane	43.2	43.2	43.1	100	100	69-128	0	25	
98-82-8	Cumene	42.4	40.7	40.0	96	94	69-125	2	25	
541-73-1	1,3-Dichlorobenzene	42.8	38.8	37.9	91	89	67-136	2	25	
106-46-7	1,4-Dichlorobenzene	42.8	34.6	34.4	81	80	63-134	1	25	
95-50-1	1,2-Dichlorobenzene	42.4	39.8	39.4	94	93	64-139	1	25	
96-12-8	1,2-Dibromo-3-chloropropane	83.2	78.6	78.0	94	94	72-145	0	25	
120-82-1	1,2,4-Trichlorobenzene	88.0	68.1	67.9	77	77	62-154	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

Client: WSP USA Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250
 ALS Sample ID: P230328-DLCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Topacio Zavala
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/28/23
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
75-71-8	Dichlorodifluoromethane (CFC 12)	212	207	208	98	98	71-112	0	25	
74-87-3	Chloromethane	210	218	219	104	104	53-126	0	25	
75-01-4	Vinyl Chloride	210	187	190	89	90	63-123	1	25	
74-83-9	Bromomethane	210	202	201	96	96	71-112	0	25	
75-00-3	Chloroethane	212	210	211	99	100	66-117	1	25	
67-64-1	Acetone	1,060	1020	1030	96	97	60-117	1	25	
75-69-4	Trichlorofluoromethane	210	206	205	98	98	71-114	0	25	
75-35-4	1,1-Dichloroethene	204	208	209	102	102	74-114	0	25	
75-09-2	Methylene Chloride	204	205	207	100	101	75-112	1	25	
76-13-1	Trichlorotrifluoroethane	210	204	203	97	97	73-114	0	25	
75-15-0	Carbon Disulfide	430	392	391	91	91	70-113	0	25	
156-60-5	trans-1,2-Dichloroethene	216	222	224	103	104	76-119	1	25	
75-34-3	1,1-Dichloroethane	216	213	212	99	98	70-114	1	25	
1634-04-4	Methyl tert-Butyl Ether	216	213	213	99	99	72-118	0	25	
78-93-3	2-Butanone (MEK)	414	428	429	103	104	74-121	1	25	
156-59-2	cis-1,2-Dichloroethene	214	212	212	99	99	73-117	0	25	
67-66-3	Chloroform	216	210	208	97	96	71-114	1	25	
107-06-2	1,2-Dichloroethane	204	227	225	111	110	71-119	0.9	25	
71-55-6	1,1,1-Trichloroethane	210	212	212	101	101	73-119	0	25	
71-43-2	Benzene	204	210	213	103	104	72-113	1	25	
56-23-5	Carbon Tetrachloride	210	223	225	106	107	67-123	0.9	25	
110-82-7	Cyclohexane	426	413	416	97	98	70-119	1	25	
78-87-5	1,2-Dichloropropane	214	209	213	98	100	70-118	2	25	
75-27-4	Bromodichloromethane	216	217	220	100	102	74-119	2	25	
79-01-6	Trichloroethene	212	204	206	96	97	74-115	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

Client: WSP USA Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250
 ALS Sample ID: P230328-DLCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Topacio Zavala
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/28/23
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
10061-01-5	cis-1,3-Dichloropropene	212	241	245	114	116	81-126	2	25	
108-10-1	4-Methyl-2-pentanone	426	459	466	108	109	73-129	0.9	25	
10061-02-6	trans-1,3-Dichloropropene	196	205	207	105	106	80-127	0.9	25	
79-00-5	1,1,2-Trichloroethane	216	207	209	96	97	78-117	1	25	
108-88-3	Toluene	214	181	184	85	86	70-118	1	25	
591-78-6	2-Hexanone	426	431	435	101	102	74-132	1	25	
124-48-1	Dibromochloromethane	214	198	199	93	93	69-137	0	25	
106-93-4	1,2-Dibromoethane	204	188	191	92	94	76-128	2	25	
127-18-4	Tetrachloroethene	214	184	185	86	86	63-130	0	25	
108-90-7	Chlorobenzene	216	187	189	87	88	70-118	1	25	
100-41-4	Ethylbenzene	218	180	181	83	83	71-123	0	25	
179601-23-1	m,p-Xylenes	430	360	362	84	84	67-127	0	25	
75-25-2	Bromoform	218	202	204	93	94	65-149	1	25	
100-42-5	Styrene	214	196	199	92	93	76-132	1	25	
95-47-6	o-Xylene	216	187	189	87	88	69-124	1	25	
79-34-5	1,1,2,2-Tetrachloroethane	216	202	204	94	94	69-128	0	25	
98-82-8	Cumene	212	187	189	88	89	69-125	1	25	
541-73-1	1,3-Dichlorobenzene	214	186	187	87	87	67-136	0	25	
106-46-7	1,4-Dichlorobenzene	214	182	185	85	86	63-134	1	25	
95-50-1	1,2-Dichlorobenzene	212	186	188	88	89	64-139	1	25	
96-12-8	1,2-Dibromo-3-chloropropane	416	378	391	91	94	72-145	3	25	
120-82-1	1,2,4-Trichlorobenzene	440	368	391	84	89	62-154	6	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG13B

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-044DUP

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00760

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.42

Final Pressure (psig): 4.21

Container Dilution Factor: 2.28

Compound	Sample Result		Duplicate Sample Result		Average µg/m³	% RPD	RPD Limit	Data Qualifier
	µg/m³	ppbV	µg/m³	ppbV				
Dichlorodifluoromethane (CFC 12)	2.77	0.560	2.80	0.566	2.785	1	25	
Chloromethane	0.331	0.160	0.267	0.129	0.299	21	25	J
Vinyl Chloride	ND	ND	ND	ND	-	-	25	
Bromomethane	ND	ND	ND	ND	-	-	25	
Chloroethane	ND	ND	ND	ND	-	-	25	
Acetone	5.86	2.47	5.73	2.41	5.795	2	25	J
Trichlorofluoromethane	1.87	0.333	1.85	0.329	1.86	1	25	
1,1-Dichloroethene	ND	ND	ND	ND	-	-	25	
Methylene Chloride	0.404	0.116	0.404	0.116	0.404	0	25	J
Trichlorotrifluoroethane	0.479	0.0625	0.531	0.0693	0.505	10	25	J
Carbon Disulfide	ND	ND	ND	ND	-	-	25	
trans-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethane	ND	ND	ND	ND	-	-	25	
Methyl tert-Butyl Ether	ND	ND	ND	ND	-	-	25	
2-Butanone (MEK)	0.901	0.305	0.955	0.324	0.928	6	25	J
cis-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
Chloroform	ND	ND	ND	ND	-	-	25	
1,2-Dichloroethane	ND	ND	ND	ND	-	-	25	
1,1,1-Trichloroethane	ND	ND	ND	ND	-	-	25	
Benzene	1.07	0.336	1.06	0.333	1.065	0.9	25	
Carbon Tetrachloride	0.472	0.0751	0.451	0.0718	0.4615	5	25	
Cyclohexane	ND	ND	ND	ND	-	-	25	
1,2-Dichloropropane	ND	ND	ND	ND	-	-	25	
Bromodichloromethane	ND	ND	ND	ND	-	-	25	
Trichloroethene	0.422	0.0785	0.424	0.0789	0.423	0.5	25	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG13B

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-044DUP

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00760

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.42

Final Pressure (psig): 4.21

Container Dilution Factor: 2.28

Compound	Sample Result		Duplicate Sample Result		Average µg/m³	% RPD	RPD Limit	Data Qualifier
	µg/m³	ppbV	µg/m³	ppbV				
cis-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
4-Methyl-2-pentanone	ND	ND	ND	ND	-	-	25	
trans-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
1,1,2-Trichloroethane	ND	ND	ND	ND	-	-	25	
Toluene	1.03	0.274	1.01	0.269	1.02	2	25	J
2-Hexanone	0.242	0.0590	0.219	0.0535	0.2305	10	25	J
Dibromochloromethane	ND	ND	ND	ND	-	-	25	
1,2-Dibromoethane	ND	ND	ND	ND	-	-	25	
Tetrachloroethene	0.226	0.0333	0.212	0.0313	0.219	6	25	J
Chlorobenzene	ND	ND	ND	ND	-	-	25	
Ethylbenzene	0.205	0.0473	0.205	0.0473	0.205	0	25	J
m,p-Xylenes	0.611	0.141	0.586	0.135	0.5985	4	25	J
Bromoform	ND	ND	ND	ND	-	-	25	
Styrene	ND	ND	ND	ND	-	-	25	
o-Xylene	0.235	0.0541	0.233	0.0536	0.234	0.9	25	J
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	-	-	25	
Cumene	ND	ND	ND	ND	-	-	25	
1,3-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,4-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,2-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	-	-	25	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	-	-	25	
Methyl Acetate	ND	ND	ND	ND	-	-	25	X
Methylcyclohexane	ND	ND	ND	ND	-	-	25	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: WSP USA Inc. ALS Project ID: P2301250
Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

Method Blank Summary

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Lab File ID: 03232303.D
Analyst: Topacio Zavala Date Analyzed: 3/23/23
Sample Type: 6.0 L Summa Canister(s) Time Analyzed: 02:13
Test Notes:

Client Sample ID	ALS Sample ID	Lab File ID	Time Analyzed
Lab Control Sample	P230323-LCS	03232304.D	02:49
Duplicate Lab Control Sample	P230323-DLCS	03232305.D	03:24
SS-BLDG1	P2301250-001	03232325.D	20:37
SS-BLDG2-1	P2301250-002	03232326.D	21:14
SS-BLDG2-2	P2301250-003	03232327.D	21:50
SS-BLDG4-1	P2301250-005	03232329.D	23:02
SS-BLDG4-2	P2301250-006	03232330.D	23:37
SS-BLDG5	P2301250-007	03232331.D	00:13

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: WSP USA Inc. ALS Project ID: P2301250
Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

Method Blank Summary

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Lab File ID: 03242303.D
Analyst: Topacio Zavala Date Analyzed: 3/24/23
Sample Type: 6.0 L Silonite Canister(s) Time Analyzed: 03:11
Test Notes:

Client Sample ID	ALS Sample ID	Lab File ID	Time Analyzed
Lab Control Sample	P230324-LCS	03242304.D	03:47
Duplicate Lab Control Sample	P230324-DLCS	03242305.D	04:23
SS-BLDG3	P2301250-004	03242306.D	08:29
SS-BLDG5 (Dilution)	P2301250-007	03242307.D	09:05
SS-BLDG6A-1	P2301250-008	03242308.D	09:41
SS-BLDG6A-2	P2301250-009	03242311.D	11:53
SS-BLDG8	P2301250-010	03242312.D	12:30
SS-BLDG9	P2301250-011	03242313.D	13:06
SS-BLDG10	P2301250-012	03242314.D	13:43
SS-BLDG8 (Dilution)	P2301250-010	03242315.D	14:21
SS-BLDG10 (Dilution)	P2301250-012	03242316.D	14:58
SS-BLDG9 (Dilution)	P2301250-011	03242317.D	15:35
SS-BLDG11A	P2301250-013	03242318.D	16:45
SS-BLDG13A	P2301250-014	03242319.D	17:22
SS-BLDG13B	P2301250-015	03242320.D	17:59
SS-BLDG18	P2301250-016	03242321.D	18:35
SS-BLDG21-1	P2301250-017	03242322.D	19:11
SS-BLDG21-2	P2301250-018	03242323.D	19:48
SS-BLDG24-1	P2301250-019	03242324.D	20:24
SS-BLDG24-2	P2301250-020	03242325.D	21:01
SS-BLDG33-1	P2301250-021	03242326.D	21:37
SS-BLDG33-2	P2301250-022	03242327.D	22:13
SS-BLDG34-1	P2301250-023	03242328.D	22:50
SS-BLDG34-2	P2301250-024	03242329.D	23:26
SS-BLDG34-3	P2301250-025	03242330.D	00:03
SS-BLDG34-3 (Dilution)	P2301250-025	03242331.D	00:39
SS-BLDG34-4	P2301250-026	03242332.D	01:15

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: WSP USA Inc. ALS Project ID: P2301250
Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

Method Blank Summary

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Lab File ID: 03242304.D
Analyst: Wida Ang Date Analyzed: 3/24/23
Sample Type: 6.0 L Silonite Canister(s) Time Analyzed: 07:27
Test Notes:

Client Sample ID	ALS Sample ID	Lab File ID	Time Analyzed
Lab Control Sample	P230324-LCS	03242306.D	08:35
Duplicate Lab Control Sample	P230324-DLCS	03242307.D	09:09
IA-BLDG1-1	P2301250-029	03242312.D	12:16
IA-BLDG8	P2301250-039	03242313.D	12:50
IA-BLDG9	P2301250-040	03242314.D	13:24
IA-BLDG10	P2301250-041	03242315.D	13:59
IA-BLDG11A	P2301250-042	03242316.D	14:32
IA-BLDG34-4	P2301250-054	03242317.D	15:43
IA-BLDG13A	P2301250-043	03242319.D	16:51
IA-BLDG13B	P2301250-044	03242320.D	17:25
IA-BLDG13B (Lab Duplicate)	P2301250-044DUP	03242321.D	17:59
IA-BLDG21-1	P2301250-045	03242322.D	18:33
IA-BLDG21-2	P2301250-046	03242323.D	19:08
IA-BLDG24-1	P2301250-047	03242324.D	19:42
IA-BLDG24-2	P2301250-048	03242326.D	20:50
IA-BLDG33-1	P2301250-049	03242327.D	21:24
IA-BLDG33-2	P2301250-050	03242328.D	21:58
IA-BLDG34-1	P2301250-051	03242329.D	22:32
IA-BLDG34-2	P2301250-052	03242330.D	23:06
IA-BLDG34-3	P2301250-053	03242331.D	23:40

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: WSP USA Inc. ALS Project ID: P2301250
Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

Method Blank Summary

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Lab File ID: 03272304.D
Analyst: Wida Ang Date Analyzed: 3/27/23
Sample Type: 6.0 L Summa Canister(s) Time Analyzed: 05:29
Test Notes:

Client Sample ID	ALS Sample ID	Lab File ID	Time Analyzed
Lab Control Sample	P230327-LCS	03272305.D	06:04
Duplicate Lab Control Sample	P230327-DLCS	03272306.D	06:39
SS-BLDG13A (Dilution)	P2301250-014	03272307.D	07:15
SS-BLDG13B (Dilution)	P2301250-015	03272308.D	07:50
SS-BLDG21-2 (Dilution)	P2301250-018	03272309.D	08:25
SS-BLDG11A (Dilution)	P2301250-013	03272310.D	09:01
SS-031523A	P2301250-027	03272312.D	10:23
SS-031523A (Dilution)	P2301250-027	03272315.D	12:16
SS-031523B	P2301250-028	03272316.D	12:53
IA-BLDG1-2	P2301250-030	03272317.D	13:31
IA-BLDG2-1	P2301250-031	03272318.D	14:08
IA-BLDG2-2	P2301250-032	03272319.D	14:46
IA-BLDG3	P2301250-033	03272323.D	17:19

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: WSP USA Inc. ALS Project ID: P2301250
Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

Method Blank Summary

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Lab File ID: 03272304.D
Analyst: Wida Ang Date Analyzed: 3/27/23
Sample Type: 6.0 L Summa Canister(s) Time Analyzed: 06:02
Test Notes:

Client Sample ID	ALS Sample ID	Lab File ID	Time Analyzed
Lab Control Sample	P230327-LCS	03272305.D	06:36
Duplicate Lab Control Sample	P230327-DLCS	03272306.D	07:10
IA-031523A	P2301250-055	03272307.D	08:21
OA-031523A	P2301250-056	03272308.D	08:55
OA-031523B	P2301250-057	03272309.D	09:29
IA-031523BR	P2301250-058	03272310.D	10:02
IA-BLDG18	P2301250-059	03272311.D	10:36
IA-BLDG6A-2	P2301250-038	03272321.D	16:46
IA-BLDG6A-1	P2301250-037	03272322.D	17:20
IA-BLDG5	P2301250-036	03272323.D	17:54
IA-BLDG4-2	P2301250-035	03272324.D	18:28
IA-BLDG4-1	P2301250-034	03272325.D	19:02

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: WSP USA Inc. ALS Project ID: P2301250
Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

Method Blank Summary

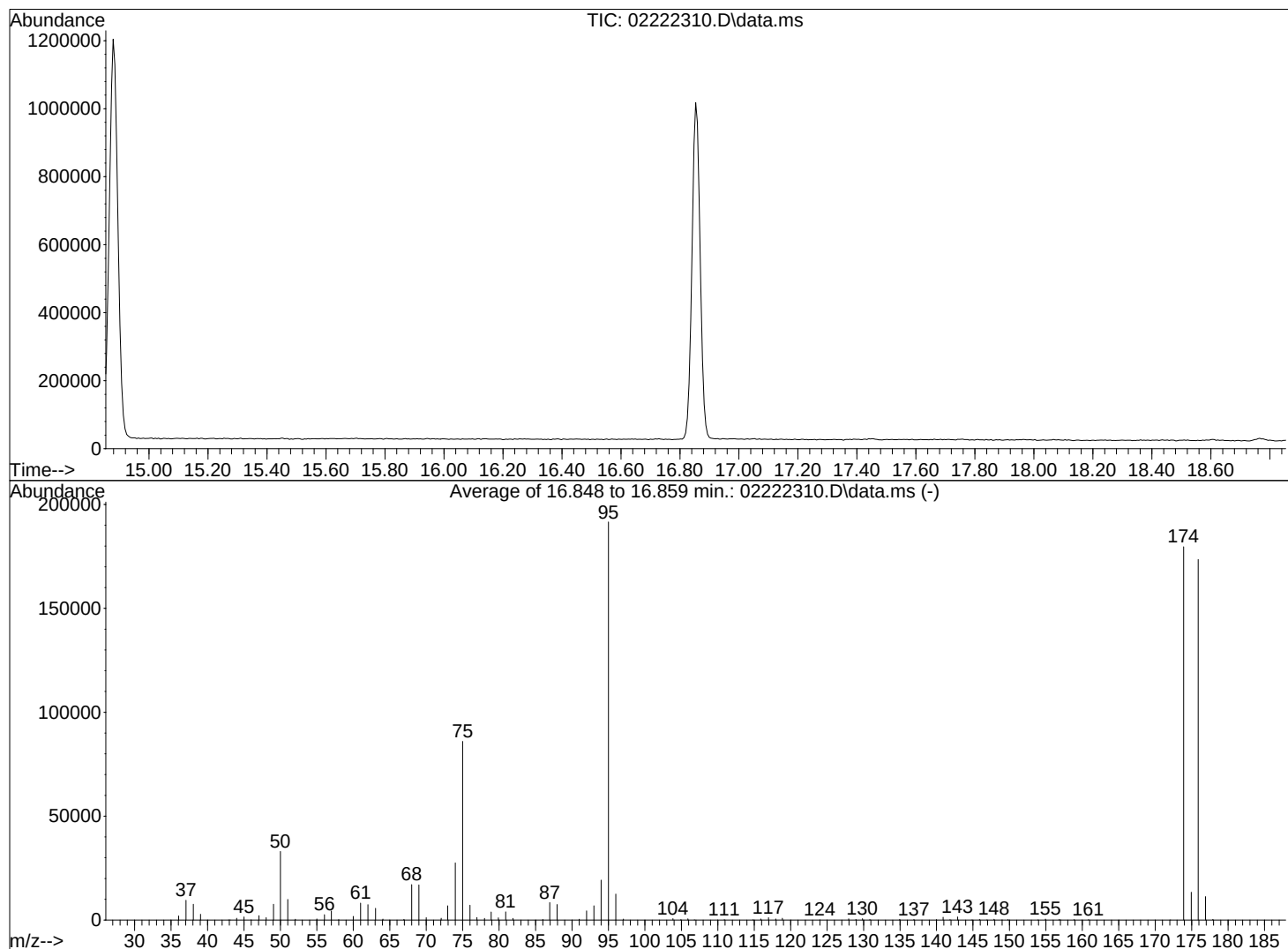
Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Lab File ID: 03282303.D
Analyst: Topacio Zavala Date Analyzed: 3/28/23
Sample Type: 6.0 L Summa Canister(s) Time Analyzed: 04:13
Test Notes:

Client Sample ID	ALS Sample ID	Lab File ID	Time Analyzed
Lab Control Sample	P230328-LCS	03282304.D	04:49
Duplicate Lab Control Sample	P230328-DLCS	03282305.D	05:25
SS-BLDG18 (Dilution)	P2301250-016	03282308.D	10:33

Data Path : I:\MS13\DATA\2023_02\22\
 Data File : 02222310.D
 Acq On : 22 Feb 2023 14:30
 Operator : TZ
 Sample : BFB R13022223
 Misc : S35-01202301
 ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : I:\MS13\METHODS\R13022223.M
 Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
 Last Update : Thu Feb 23 07:44:44 2023



AutoFind: Scans 2418, 2419, 2420; Background Corrected with Scan 2410

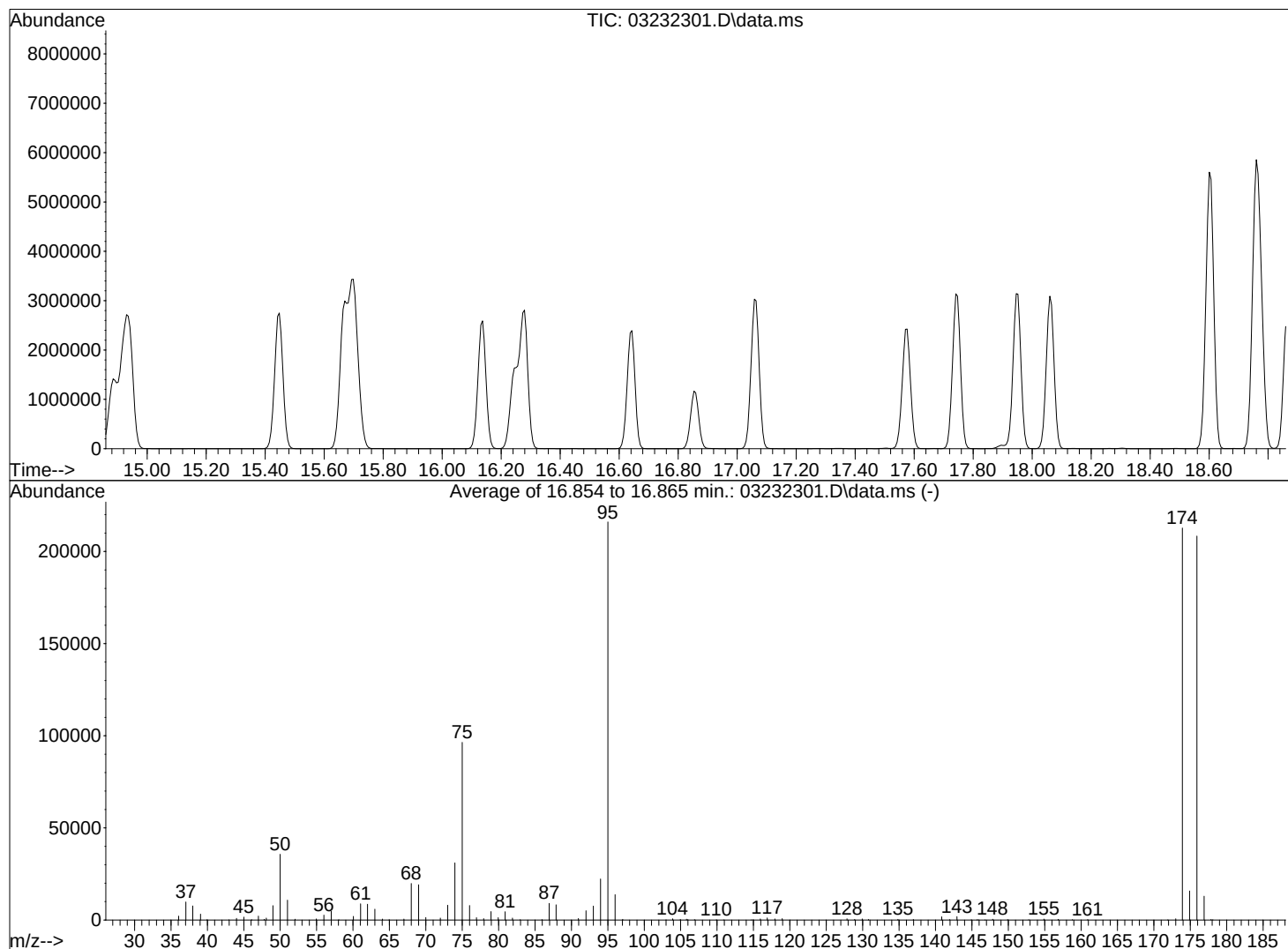
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.2	33005	PASS
75	95	30	66	44.9	85988	PASS
95	95	100	100	100.0	191595	PASS
96	95	5	9	6.5	12490	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	93.8	179627	PASS
175	174	4	9	7.4	13359	PASS
176	174	93	101	96.6	173504	PASS
177	176	5	9	6.5	11293	PASS

TZ 2/23/23

Data Path : I:\MS13\DATA\2023_03\23\
 Data File : 03232301.D
 Acq On : 23 Mar 2023 1:02
 Operator : TZ
 Sample : CCV R13032323 25ng
 Misc : S35-01202301/S35-03012301 (3/31)
 ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : I:\MS13\METHODS\R13022223.M
 Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
 Last Update : Thu Feb 23 07:57:30 2023



AutoFind: Scans 2419, 2420, 2421; Background Corrected with Scan 2410

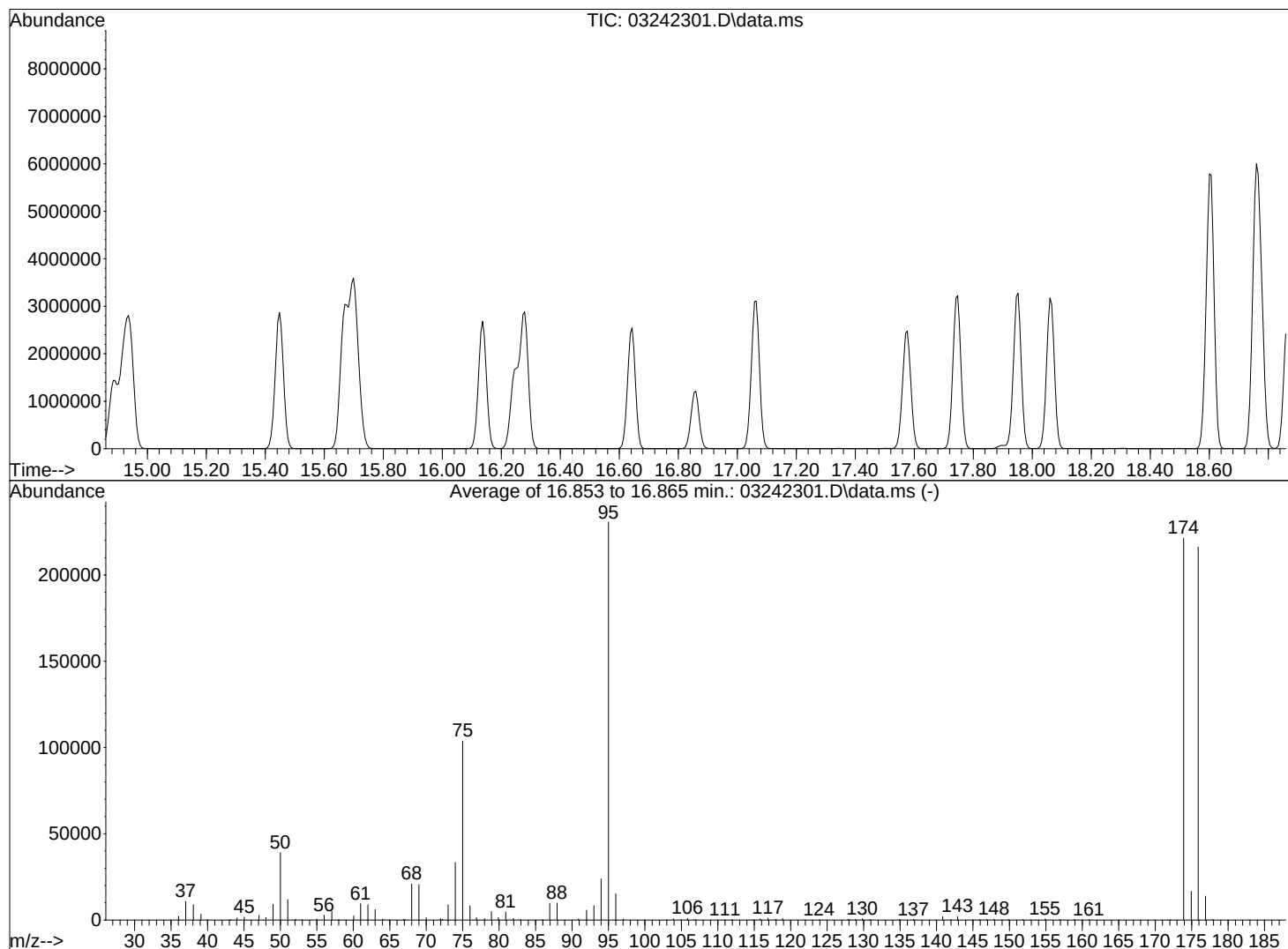
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.5	35677	PASS
75	95	30	66	44.6	96440	PASS
95	95	100	100	100.0	216043	PASS
96	95	5	9	6.4	13758	PASS
173	174	0.00	2	0.3	678	PASS
174	95	50	120	98.5	212779	PASS
175	174	4	9	7.4	15774	PASS
176	174	93	101	98.0	208427	PASS
177	176	5	9	6.2	12976	PASS

TZ 3/23/23

Data Path : I:\MS13\DATA\2023_03\24\
 Data File : 03242301.D
 Acq On : 24 Mar 2023 2:00
 Operator : TZ
 Sample : CCV R13032423 25ng
 Misc : S35-01202301/S35-03012301 (3/31)
 ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : I:\MS13\METHODS\R13022223.M
 Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
 Last Update : Thu Feb 23 07:57:30 2023



AutoFind: Scans 2419, 2420, 2421; Background Corrected with Scan 2410

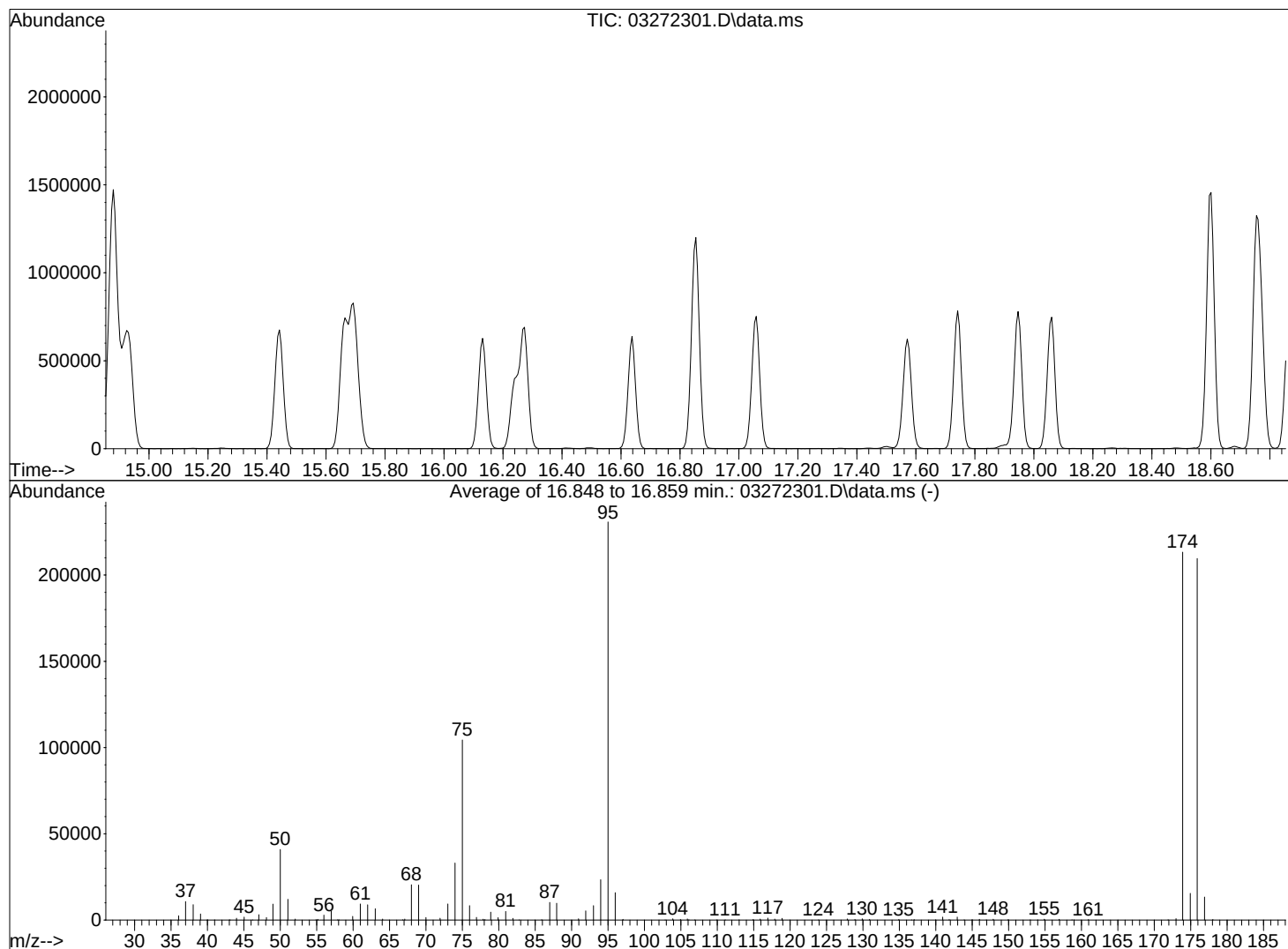
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.9	39099	PASS
75	95	30	66	44.9	103701	PASS
95	95	100	100	100.0	230720	PASS
96	95	5	9	6.6	15224	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	96.0	221419	PASS
175	174	4	9	7.5	16652	PASS
176	174	93	101	97.6	216213	PASS
177	176	5	9	6.4	13809	PASS

TZ 3/24/23

Data Path : I:\MS13\DATA\2023_03\27\
 Data File : 03272301.D
 Acq On : 27 Mar 2023 3:42
 Operator : WA
 Sample : CCV R13032723 5.0ng
 Misc : S35-01202301/S35-03242307 (4/23)
 ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : I:\MS13\METHODS\R13022223.M
 Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
 Last Update : Thu Feb 23 07:57:30 2023



AutoFind: Scans 2418, 2419, 2420; Background Corrected with Scan 2409

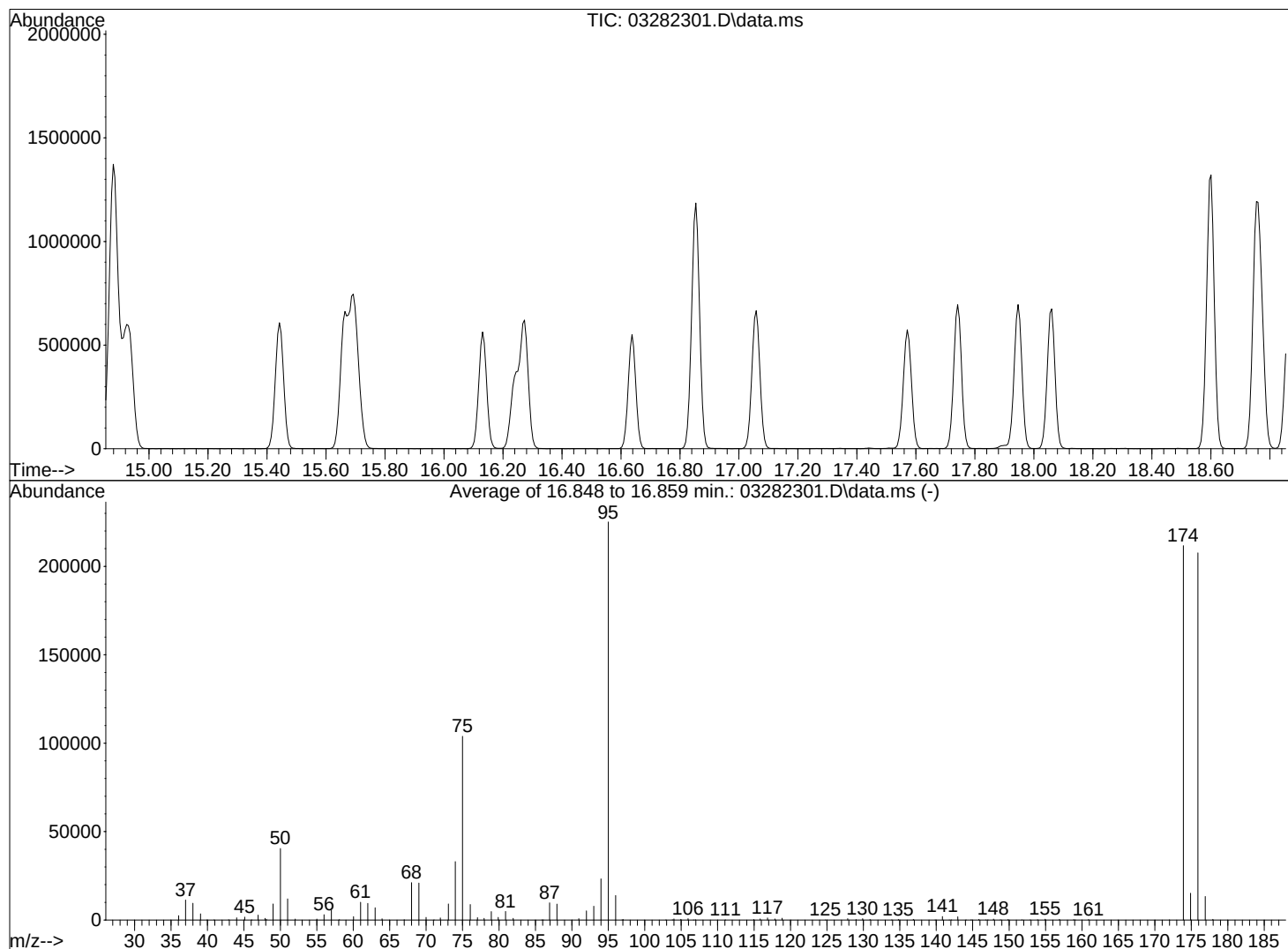
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.7	40880	PASS
75	95	30	66	45.2	104397	PASS
95	95	100	100	100.0	230784	PASS
96	95	5	9	6.9	15868	PASS
173	174	0.00	2	0.4	791	PASS
174	95	50	120	92.4	213291	PASS
175	174	4	9	7.3	15507	PASS
176	174	93	101	98.3	209579	PASS
177	176	5	9	6.4	13351	PASS

T2 3/27/23

Data Path : I:\MS13\DATA\2023_03\28\
 Data File : 03282301.D
 Acq On : 28 Mar 2023 3:02
 Operator : TZ
 Sample : CCV R13032823 5.0ng
 Misc : S35-01202301/S35-03242307 (4/23)
 ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : I:\MS13\METHODS\R13022223.M
 Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
 Last Update : Thu Feb 23 07:57:30 2023



AutoFind: Scans 2418, 2419, 2420; Background Corrected with Scan 2409

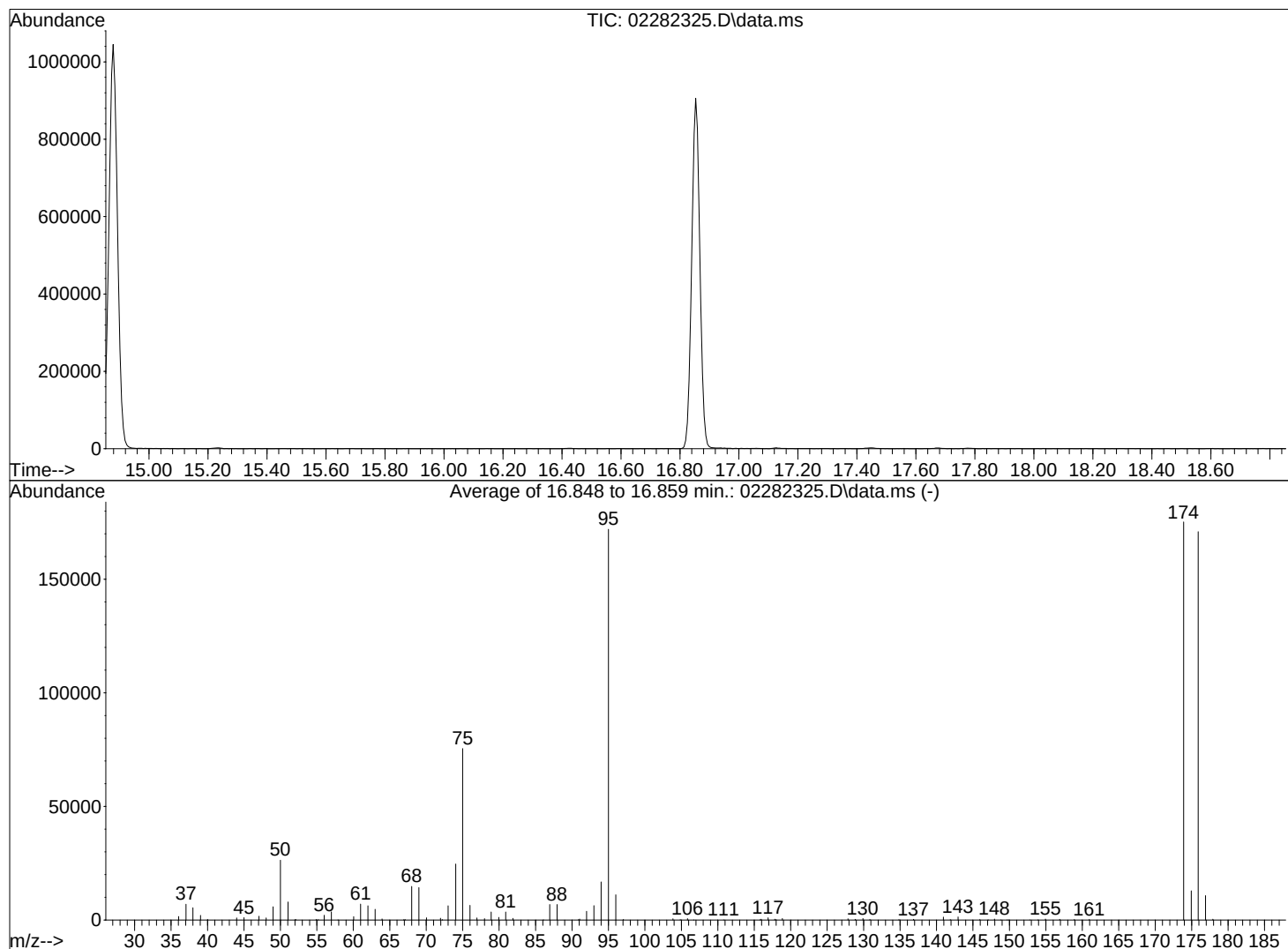
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.0	40499	PASS
75	95	30	66	46.1	103883	PASS
95	95	100	100	100.0	225109	PASS
96	95	5	9	6.2	13901	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	94.0	211712	PASS
175	174	4	9	7.2	15156	PASS
176	174	93	101	98.1	207637	PASS
177	176	5	9	6.4	13299	PASS

TZ 3/28/23

Data Path : I:\MS13\DATA\2023_02\28\
 Data File : 02282325.D
 Acq On : 28 Feb 2023 20:46
 Operator : TZ
 Sample : T0-15 BFB Std.
 Misc : S35-01202301
 ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINTVB.P

Method : I:\MS13\METHODS\C13022823.M
 Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 Last Update : Wed Mar 01 07:58:55 2023



AutoFind: Scans 2418, 2419, 2420; Background Corrected with Scan 2408

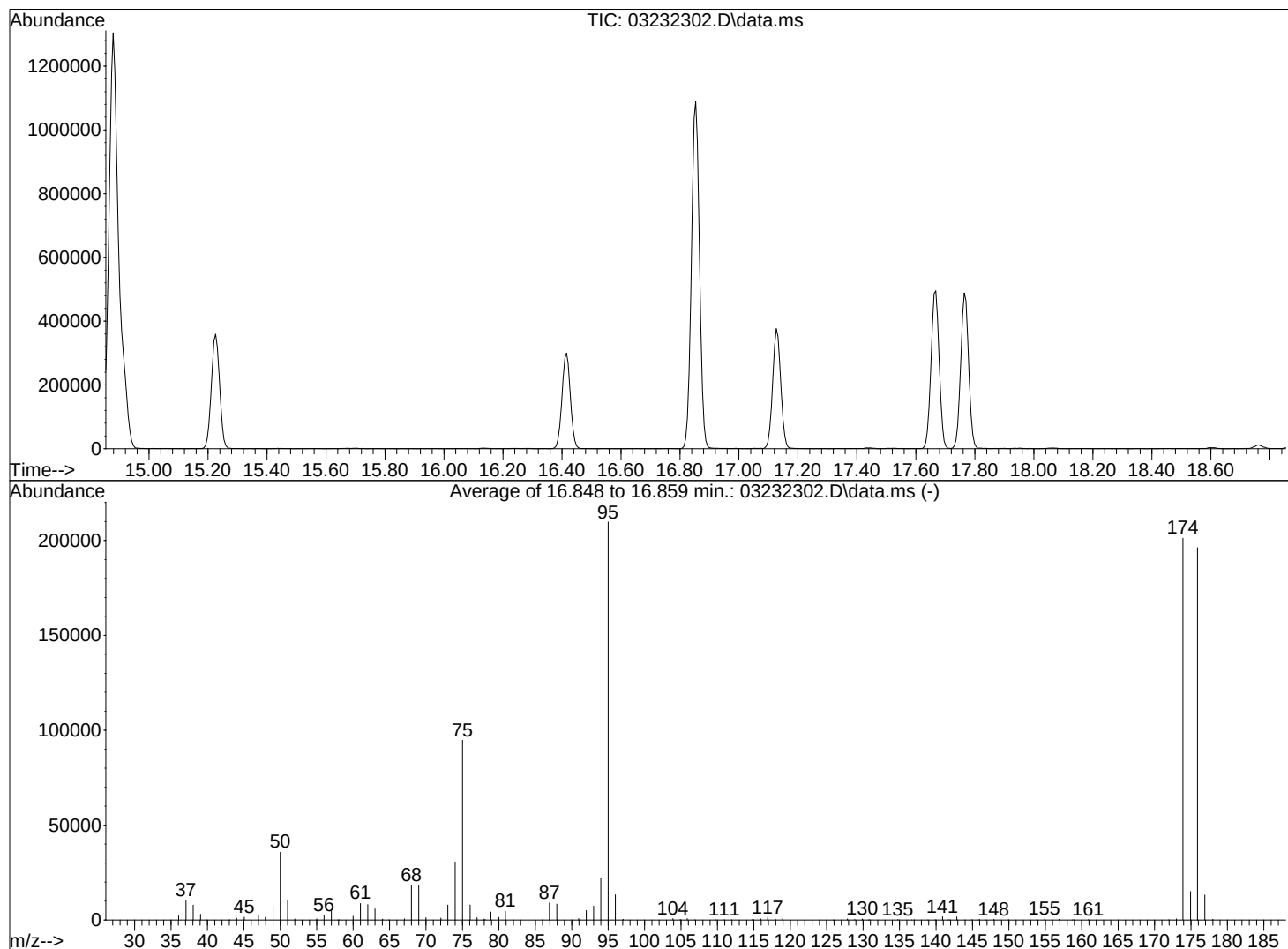
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	15.3	26371	PASS
75	95	30	66	43.9	75459	PASS
95	95	100	100	100.0	172011	PASS
96	95	5	9	6.5	11103	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	101.9	175232	PASS
175	174	4	9	7.3	12862	PASS
176	174	93	101	97.6	170944	PASS
177	176	5	9	6.3	10726	PASS

TZ 3/1/23

Data Path : I:\MS13\DATA\2023_03\23\
 Data File : 03232302.D
 Acq On : 23 Mar 2023 1:38
 Operator : TZ
 Sample : CCV C13032323 5.0ng
 Misc : S35-01202301/S35-02282306 (3/30)
 ALS Vial : 16 Sample Multiplier: 1

Integration File: RTEINTVB.P

Method : I:\MS13\METHODS\C13022823.M
 Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 Last Update : Wed Mar 01 07:58:55 2023



AutoFind: Scans 2418, 2419, 2420; Background Corrected with Scan 2408

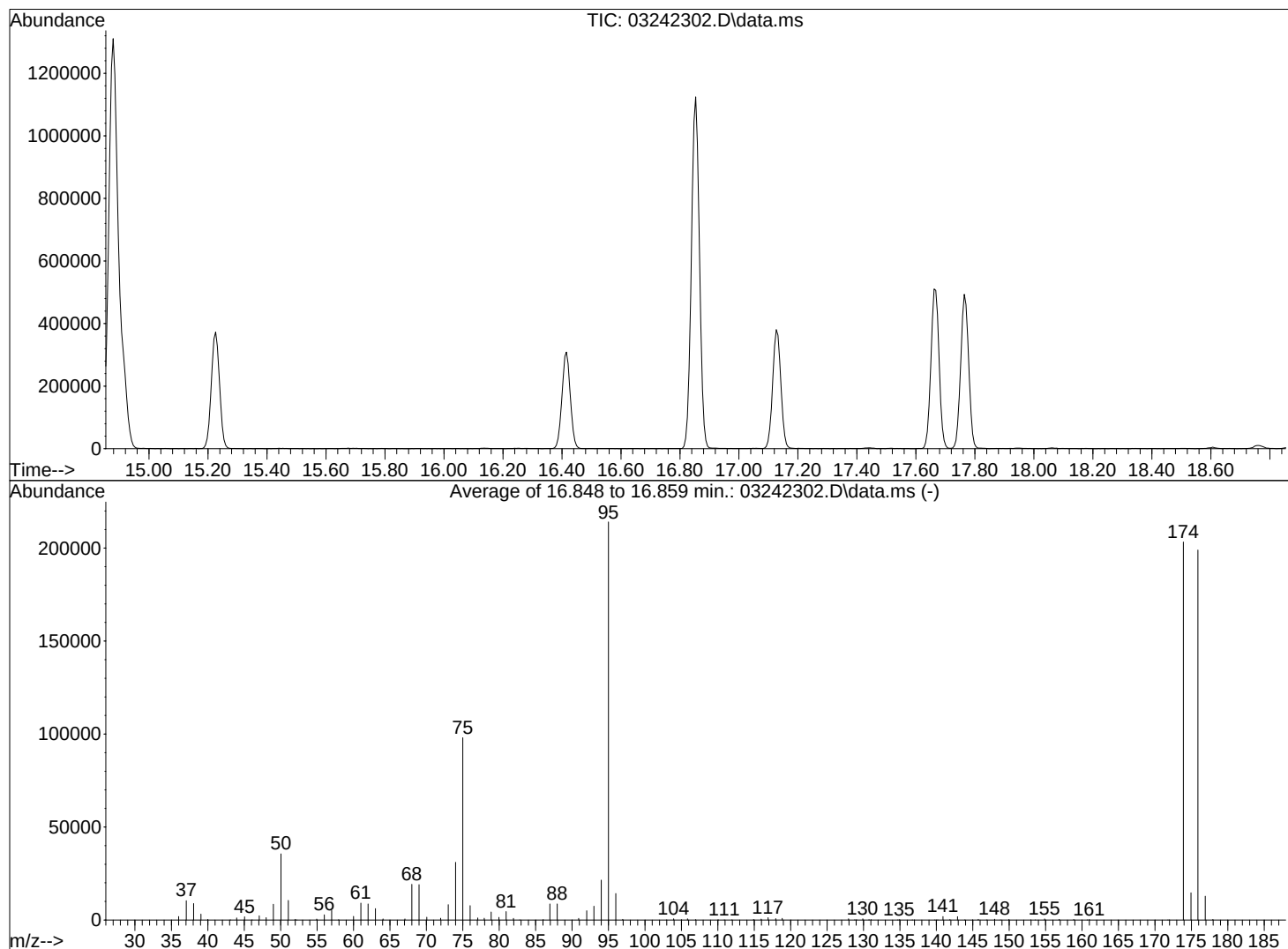
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.0	35715	PASS
75	95	30	66	45.2	94725	PASS
95	95	100	100	100.0	209771	PASS
96	95	5	9	6.3	13289	PASS
173	174	0.00	2	0.3	626	PASS
174	95	50	120	95.9	201259	PASS
175	174	4	9	7.5	15010	PASS
176	174	93	101	97.5	196267	PASS
177	176	5	9	6.7	13174	PASS

TZ 3/23/23

Data Path : I:\MS13\DATA\2023_03\24\
Data File : 03242302.D
Acq On : 24 Mar 2023 2:35
Operator : TZ
Sample : CCV C13032423 5.0ng
Misc : S35-01202301/S35-02282306 (3/30)
ALS Vial : 16 Sample Multiplier: 1

Integration File: RTEINTVB.P

Method : I:\MS13\METHODS\C13022823.M
Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
Last Update : Wed Mar 01 07:58:55 2023



AutoFind: Scans 2418, 2419, 2420; Background Corrected with Scan 2408

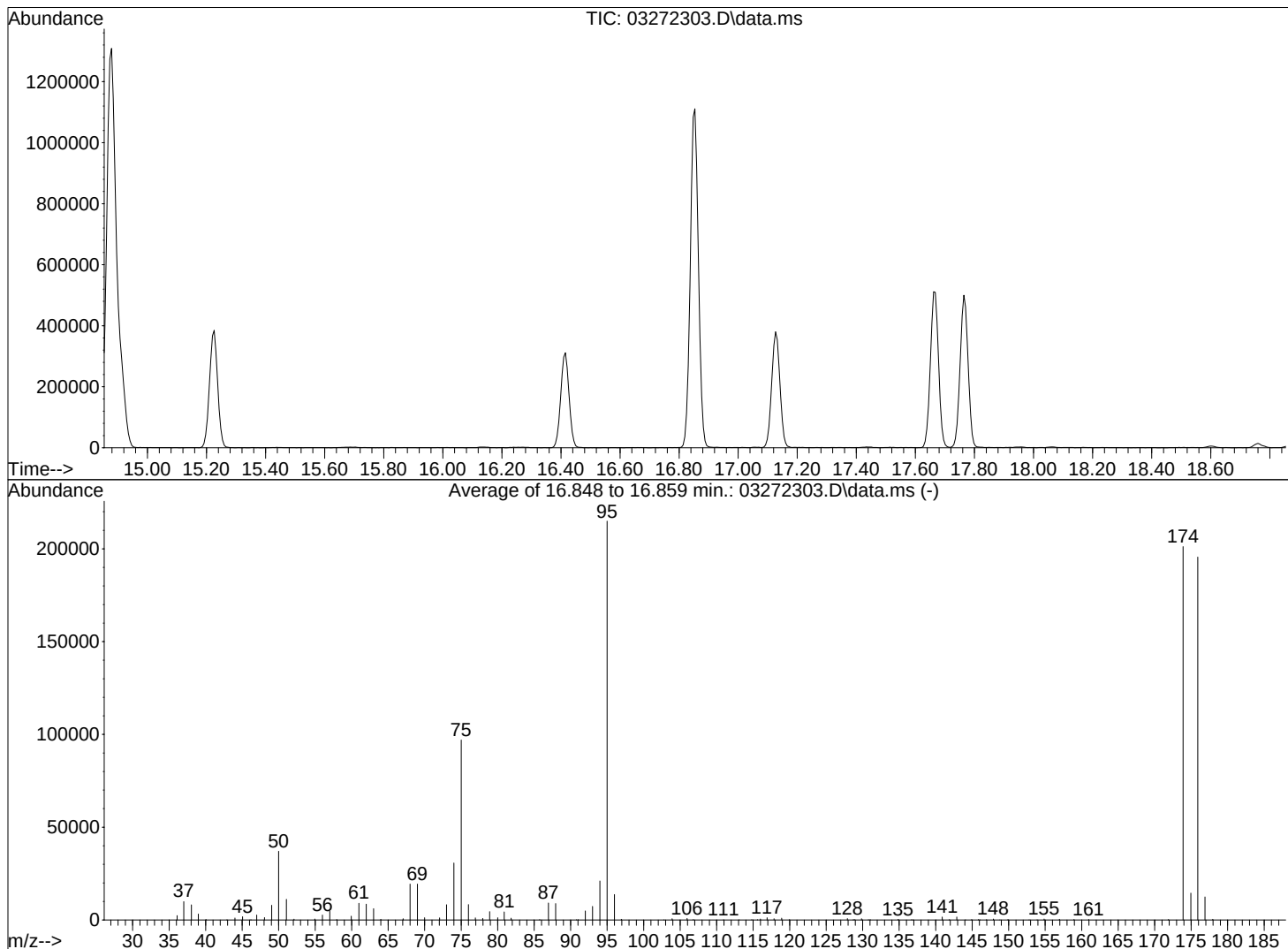
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.6	35571	PASS
75	95	30	66	45.8	98024	PASS
95	95	100	100	100.0	214059	PASS
96	95	5	9	6.7	14237	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	95.0	203264	PASS
175	174	4	9	7.2	14647	PASS
176	174	93	101	97.9	198976	PASS
177	176	5	9	6.5	12870	PASS

TZ 3/24/23

Data Path : I:\MS13\DATA\2023_03\27\
Data File : 03272303.D
Acq On : 27 Mar 2023 4:54
Operator : WA
Sample : CCV C13032723 5.0ng
Misc : S35-01202301/S35-02282306 (3/30)
ALS Vial : 16 Sample Multiplier: 1

Integration File: RTEINTVB.P

Method : I:\MS13\METHODS\C13022823.M
Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
Last Update : Wed Mar 01 07:58:55 2023



AutoFind: Scans 2418, 2419, 2420; Background Corrected with Scan 2408

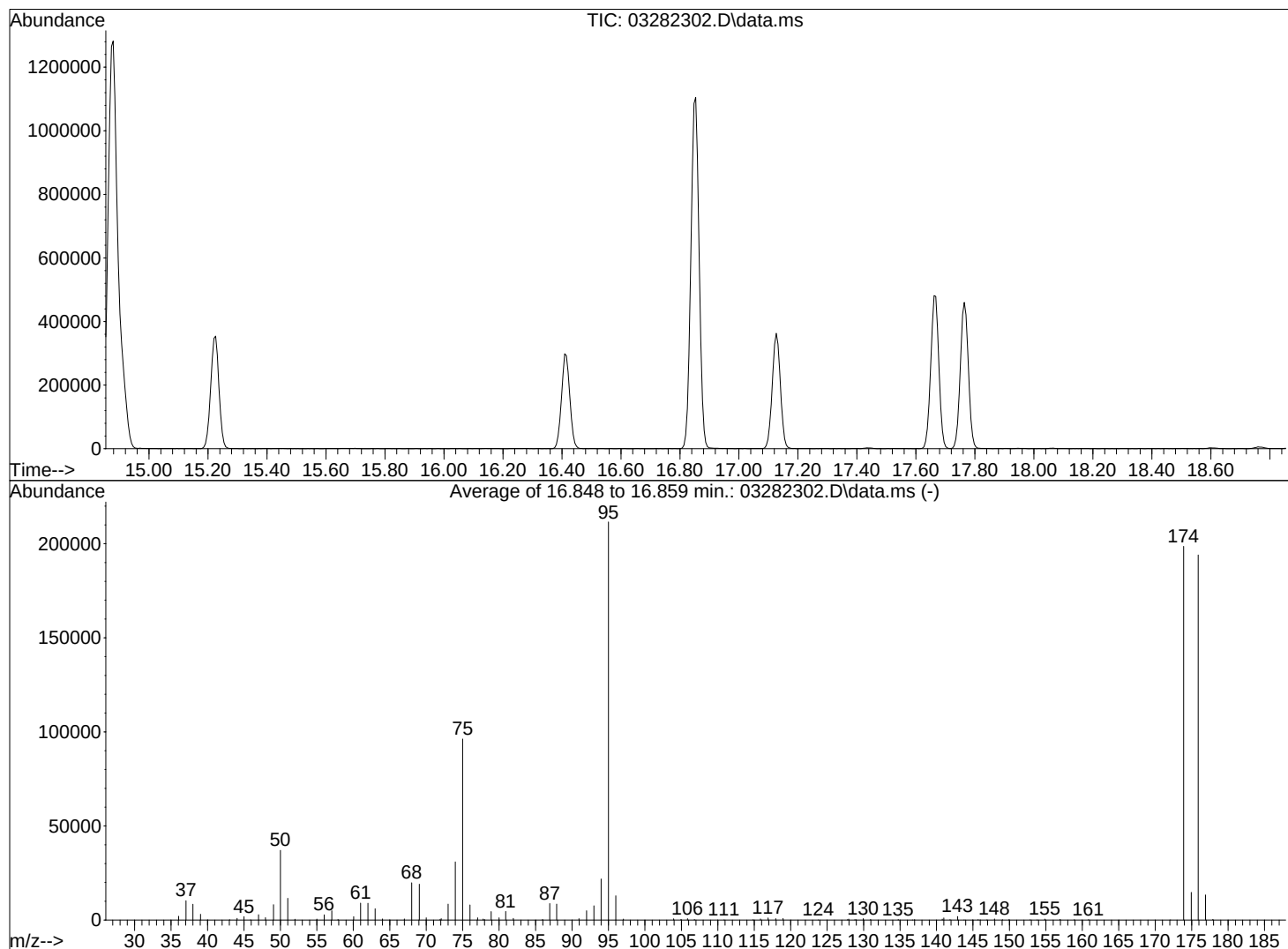
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.2	37019	PASS
75	95	30	66	45.1	97000	PASS
95	95	100	100	100.0	214912	PASS
96	95	5	9	6.4	13704	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	93.6	201173	PASS
175	174	4	9	7.2	14480	PASS
176	174	93	101	97.2	195541	PASS
177	176	5	9	6.4	12420	PASS

T2 3/27/23

Data Path : I:\MS13\DATA\2023_03\28\
Data File : 03282302.D
Acq On : 28 Mar 2023 3:38
Operator : TZ
Sample : CCV C13032823 5.0ng
Misc : S35-01202301/S35-02282306 (3/30)
ALS Vial : 16 Sample Multiplier: 1

Integration File: RTEINTVB.P

Method : I:\MS13\METHODS\C13022823.M
Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
Last Update : Wed Mar 01 07:58:55 2023



AutoFind: Scans 2418, 2419, 2420; Background Corrected with Scan 2407

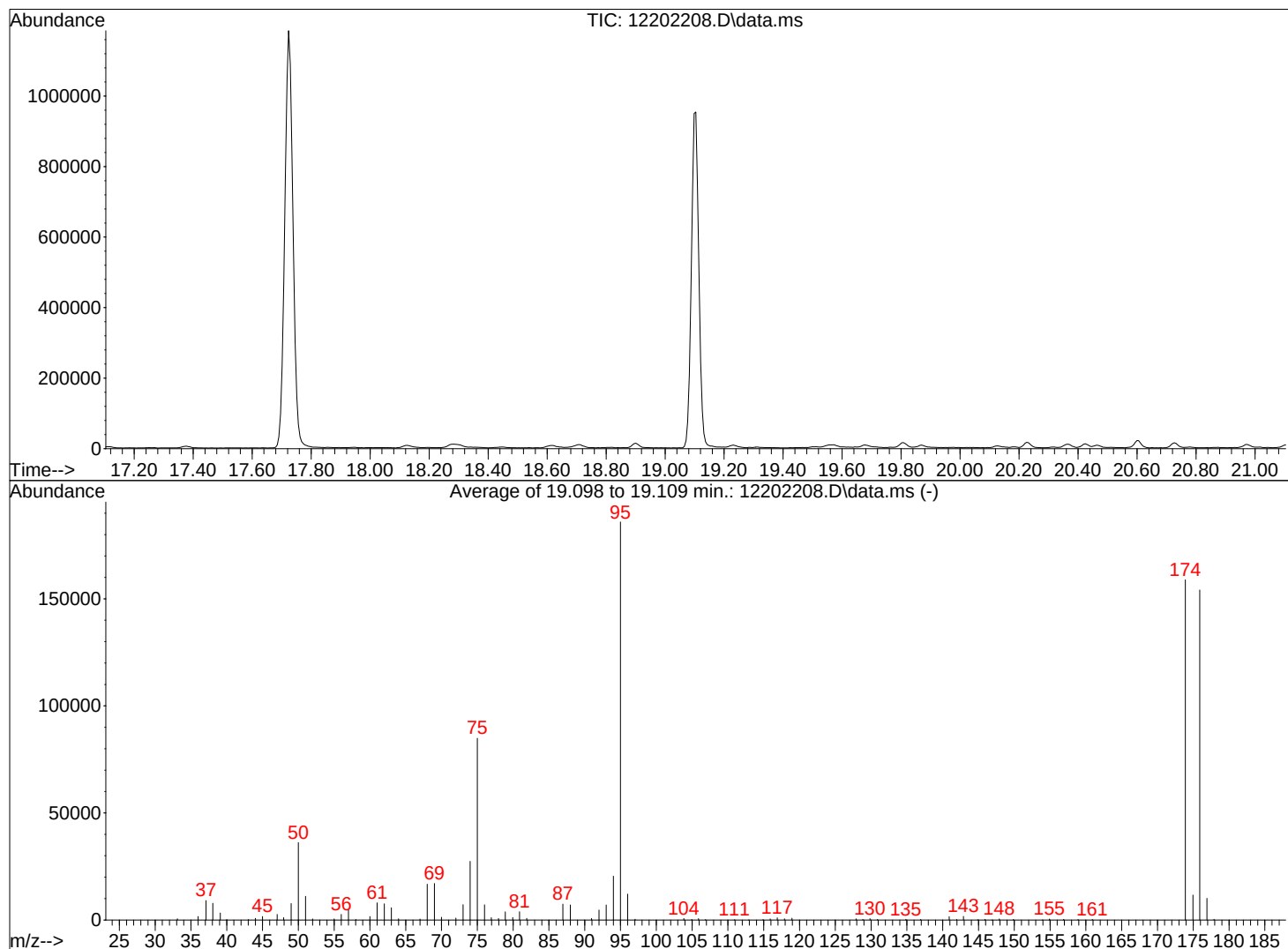
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.5	37067	PASS
75	95	30	66	45.5	96211	PASS
95	95	100	100	100.0	211563	PASS
96	95	5	9	6.1	12874	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	93.9	198592	PASS
175	174	4	9	7.4	14665	PASS
176	174	93	101	97.7	194005	PASS
177	176	5	9	6.9	13339	PASS

TZ 3/28/23

Data Path : I:\MS16\DATA\2022_12\20\
 Data File : 12202208.D
 Acq On : 20 Dec 2022 16:44
 Operator : WA
 Sample : BFB
 Misc : S35-11092201
 ALS Vial : 2 Sample Multiplier: 1

Integration File: LSCINT.P

Method : I:\MS16\METHODS\R16122022.M
 Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
 Last Update : Wed Dec 21 03:06:38 2022



AutoFind: Scans 2839, 2840, 2841; Background Corrected with Scan 2831

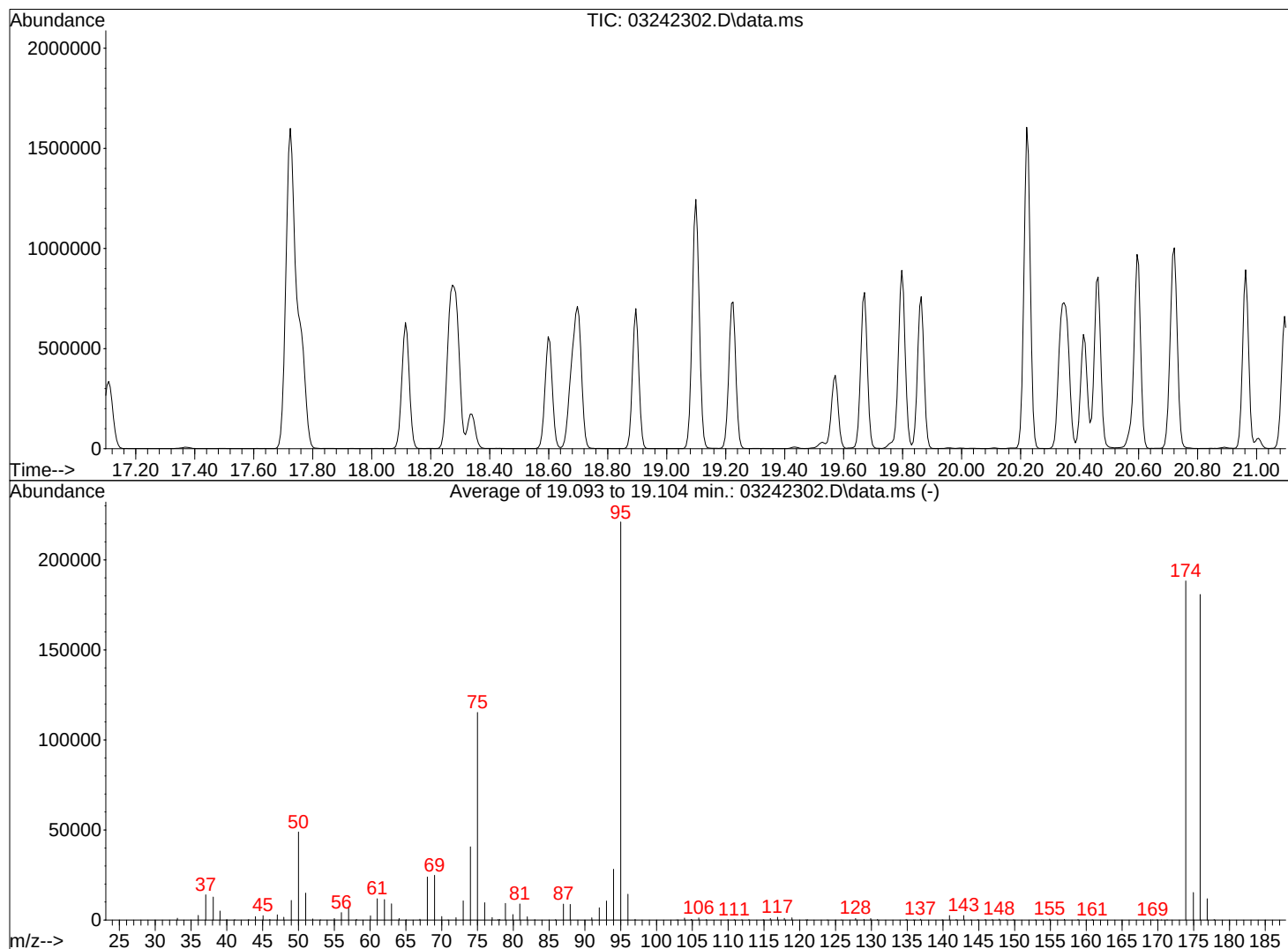
WA 12/21/22

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.4	36139	PASS
75	95	30	66	45.6	84845	PASS
95	95	100	100	100.0	185941	PASS
96	95	5	9	6.5	12103	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	85.5	158891	PASS
175	174	4	9	7.3	11618	PASS
176	174	93	101	97.0	154155	PASS
177	176	5	9	6.6	10129	PASS

Data Path : I:\MS16\DATA\2023_03\24\
 Data File : 03242302.D
 Acq On : 24 Mar 2023 5:38
 Operator : WA
 Sample : CCV R16032423_5ng
 Misc : S35-01312301/S37-03012302 (3/31)
 ALS Vial : 2 Sample Multiplier: 1

Integration File: LSCINT.P

Method : I:\MS16\METHODS\R16122022.M
 Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 Last Update : Wed Dec 21 03:06:38 2022



AutoFind: Scans 2838, 2839, 2840; Background Corrected with Scan 2830

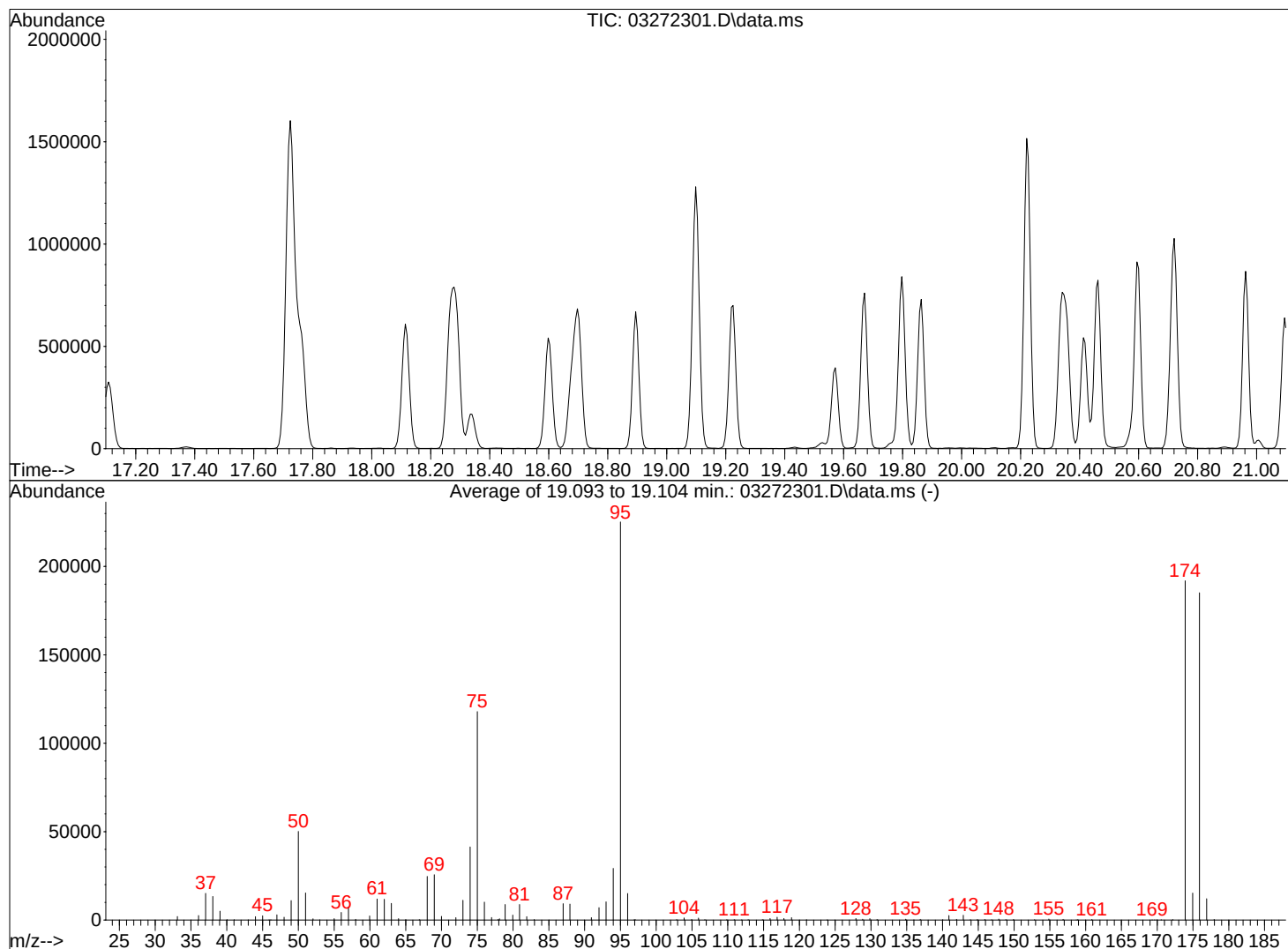
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.1	48893	PASS
75	95	30	66	52.1	115280	PASS
95	95	100	100	100.0	221056	PASS
96	95	5	9	6.5	14382	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	85.2	188331	PASS
175	174	4	9	8.1	15289	PASS
176	174	93	101	96.0	180779	PASS
177	176	5	9	6.5	11805	PASS

IDA 3/24/23

Data Path : I:\MS16\DATA\2023_03\27\
 Data File : 03272301.D
 Acq On : 27 Mar 2023 4:21
 Operator : WA
 Sample : CCV R1603273_5ng
 Misc : S35-01312301/S37-03012302 (3/31)
 ALS Vial : 2 Sample Multiplier: 1

Integration File: LSCINT.P

Method : I:\MS16\METHODS\R16122022.M
 Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
 Last Update : Wed Dec 21 03:06:38 2022



AutoFind: Scans 2838, 2839, 2840; Background Corrected with Scan 2830

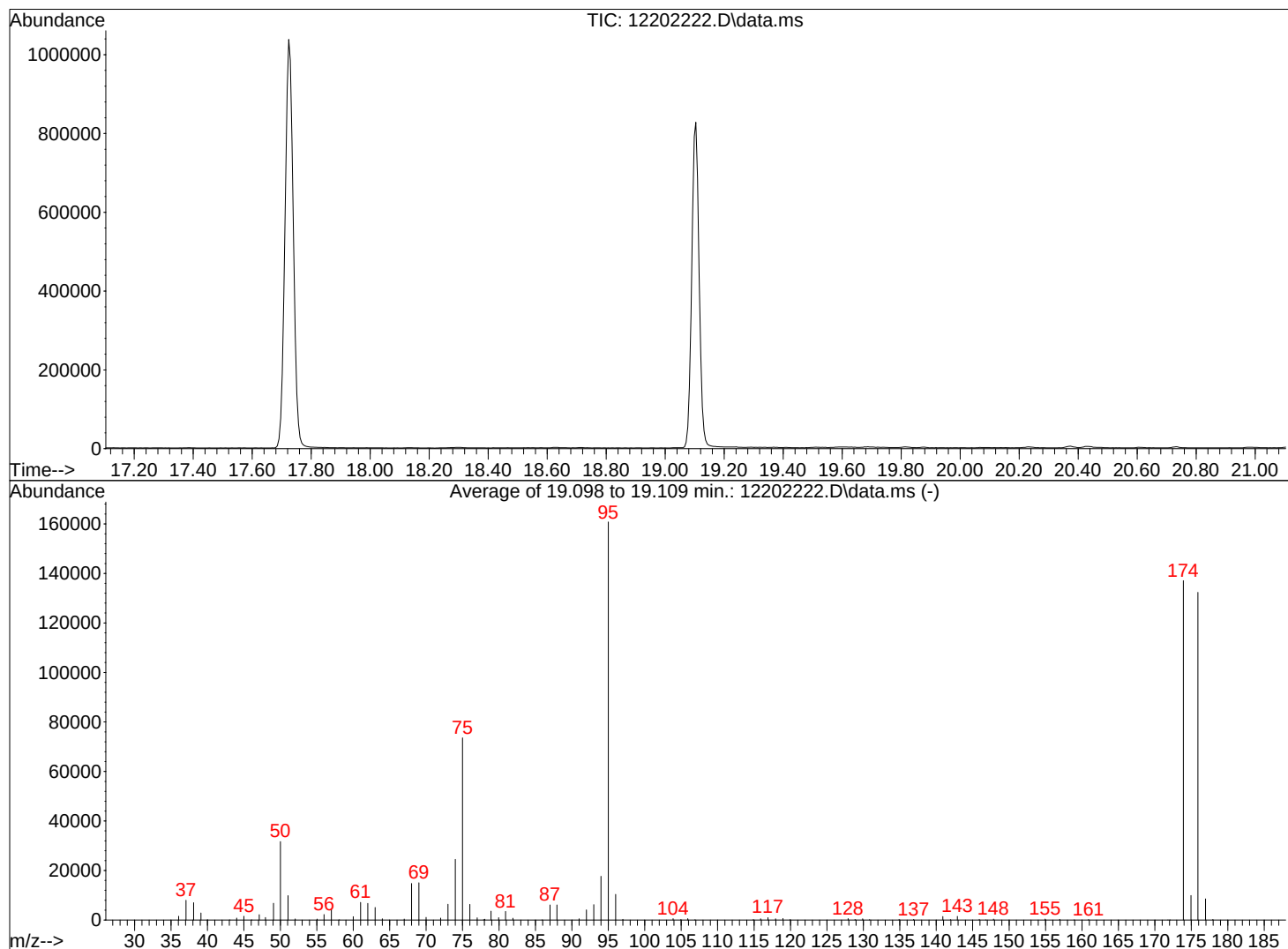
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.3	50168	PASS
75	95	30	66	52.4	117915	PASS
95	95	100	100	100.0	225173	PASS
96	95	5	9	6.7	14992	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	85.2	191872	PASS
175	174	4	9	8.0	15271	PASS
176	174	93	101	96.5	185109	PASS
177	176	5	9	6.5	12060	PASS

WA 3/27/23

Data Path : I:\MS16\DATA\2022_12\20\
 Data File : 12202222.D
 Acq On : 21 Dec 2022 00:38
 Operator : WA
 Sample : BFB
 Misc : S35-11092201
 ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINTVB.P

Method : I:\MS16\METHODS\C16122022.M
 Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 Last Update : Wed Dec 21 05:02:49 2022



AutoFind: Scans 2839, 2840, 2841; Background Corrected with Scan 2830

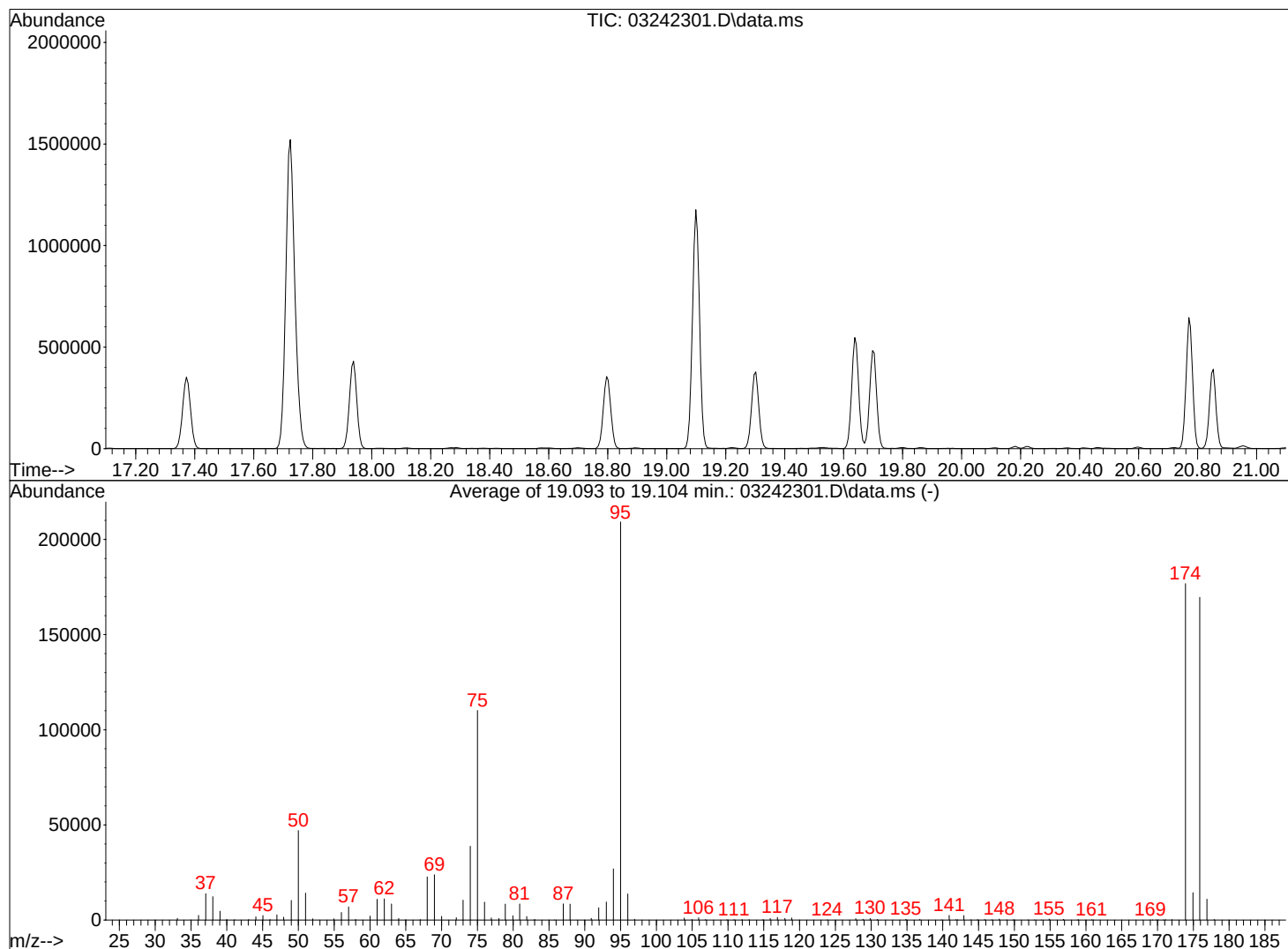
107 1/4/23

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.7	31677	PASS
75	95	30	66	45.8	73584	PASS
95	95	100	100	100.0	160789	PASS
96	95	5	9	6.4	10356	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	85.2	137069	PASS
175	174	4	9	7.2	9936	PASS
176	174	93	101	96.6	132344	PASS
177	176	5	9	6.4	8532	PASS

Data Path : I:\MS16\DATA\2023_03\24\
 Data File : 03242301.D
 Acq On : 24 Mar 2023 5:04
 Operator : WA
 Sample : CCV C16032423_5ng
 Misc : S35-01312301/S35-02282307 (3/30)
 ALS Vial : 16 Sample Multiplier: 1

Integration File: RTEINTVB.P

Method : I:\MS16\METHODS\C16122022.M
 Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 Last Update : Wed Dec 21 05:02:49 2022



AutoFind: Scans 2838, 2839, 2840; Background Corrected with Scan 2829

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.5	47005	PASS
75	95	30	66	52.6	110141	PASS
95	95	100	100	100.0	209216	PASS
96	95	5	9	6.6	13723	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	84.5	176832	PASS
175	174	4	9	8.2	14431	PASS
176	174	93	101	95.9	169600	PASS
177	176	5	9	6.5	10962	PASS

WA 3/24/23

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: WSP USA Inc. **ALS Project ID:** P2301250
Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

Internal Standard Area and RT Summary

Test Code: EPA TO-15 **Lab File ID:** 03232301.D
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 **Date Analyzed:** 3/23/23
Analyst: Topacio Zavala **Time Analyzed:** 01:02
Sample Type: 6.0 L Summa Canister(s)
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA	#	RT	#	AREA	#
24 Hour Standard	238161		7.35		1057908	9.39
Upper Limit	333425		7.68		1481071	9.72
Lower Limit	142897		7.02		634745	9.06

Client Sample ID		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA	#	RT	#	AREA	#
01	Method Blank	231707		7.31		1024202	9.37
02	Lab Control Sample	241425		7.36		1051948	9.40
03	Duplicate Lab Control Sample	241434		7.36		1067971	9.40
04	SS-BLDG1	217678		7.32		950901	9.38
05	SS-BLDG2-1	241670		7.34		1062024	9.38
06	SS-BLDG2-2	247870		7.32		1090213	9.38
07	SS-BLDG4-1	240346		7.32		1067128	9.37
08	SS-BLDG4-2	242209		7.31		1069441	9.37
09	SS-BLDG5	246686		7.33		1087274	9.39
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IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

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ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

ALS Project ID: P2301250

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

Internal Standard Area and RT Summary

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Lab File ID: 03242301.D

Analyst: Topacio Zavala

Date Analyzed: 3/24/23

Sample Type: 6.0 L Silonite Canister(s)

Time Analyzed: 02:00

Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA	# RT	AREA	# RT	AREA	# RT
24 Hour Standard	245997	7.36	1087738	9.40	202018	14.88
Upper Limit	344396	7.69	1522833	9.73	282825	15.21
Lower Limit	147598	7.03	652643	9.07	121211	14.55

Client Sample ID		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA	# RT	AREA	# RT	AREA	# RT
01	Method Blank	233321	7.32	1028417	9.37	187025	14.88
02	Lab Control Sample	242748	7.35	1062031	9.39	195834	14.88
03	Duplicate Lab Control Sample	245775	7.36	1075118	9.40	196120	14.88
04	SS-BLDG3	251877	7.32	1099782	9.38	197841	14.88
05	SS-BLDG5 (Dilution)	242747	7.32	1044426	9.38	188566	14.88
06	SS-BLDG6A-1	243211	7.32	1055277	9.38	196737	14.88
07	SS-BLDG6A-2	236495	7.33	1021652	9.38	198367	14.88
08	SS-BLDG8	251407	7.33	1096437	9.38	208150	14.88
09	SS-BLDG9	250646	7.34	1102989	9.40	207604	14.88
10	SS-BLDG10	250353	7.33	1096020	9.38	213841	14.88
11	SS-BLDG8 (Dilution)	246688	7.32	1068381	9.37	199092	14.88
12	SS-BLDG10 (Dilution)	242512	7.32	1051819	9.37	198799	14.88
13	SS-BLDG9 (Dilution)	240214	7.32	1023652	9.38	193306	14.88
14	SS-BLDG11A	245357	7.33	1075408	9.38	207405	14.88
15	SS-BLDG13A	245241	7.34	1072736	9.39	220317	14.88
16	SS-BLDG13B	247342	7.33	1080478	9.38	213157	14.88
17	SS-BLDG18	249337	7.32	1111653	9.38	223930	14.88
18	SS-BLDG21-1	247107	7.32	1092519	9.38	205611	14.88
19	SS-BLDG21-2	240980	7.32	1060372	9.38	201891	14.88
20	SS-BLDG24-1	245098	7.32	1072536	9.38	203309	14.88

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ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc. **ALS Project ID:** P2301250
Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

Internal Standard Area and RT Summary

Test Code: EPA TO-15 **Lab File ID:** 03242301.D
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 **Date Analyzed:** 3/24/23
Analyst: Topacio Zavala **Time Analyzed:** 02:00
Sample Type: 6.0 L Silonite Canister(s)
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA	#	RT	#	AREA	#
24 Hour Standard	245997	7.36	1087738	9.40	202018	14.88
Upper Limit	344396	7.69	1522833	9.73	282825	15.21
Lower Limit	147598	7.03	652643	9.07	121211	14.55

Client Sample ID		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA	#	RT	#	AREA	#
21	SS-BLDG24-2	235053	7.32	1031723	9.37	190767	14.88
22	SS-BLDG33-1	234567	7.32	1040579	9.38	195355	14.87
23	SS-BLDG33-2	239906	7.32	1052992	9.38	202123	14.88
24	SS-BLDG34-1	248856	7.34	1089688	9.38	203040	14.88
25	SS-BLDG34-2	246155	7.33	1092479	9.38	203816	14.88
26	SS-BLDG34-3	246431	7.32	1092128	9.38	208197	14.88
27	SS-BLDG34-3 (Dilution)	243013	7.31	1054001	9.37	194380	14.88
28	SS-BLDG34-4	232683	7.32	1048580	9.38	196951	14.88
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IS1 (BCM) = Bromochloromethane

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ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: WSP USA Inc.

ALS Project ID: P2301250

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

Internal Standard Area and RT Summary

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Lab File ID: 03242302.D

Analyst: Wida Ang

Date Analyzed: 3/24/23

Sample Type: 6.0 L Silonite Canister(s)

Time Analyzed: 05:38

Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA	# RT	AREA	# RT	AREA	# RT
24 Hour Standard	221645	11.30	1029043	13.42	213638	17.72
Upper Limit	310303	11.63	1440660	13.75	299093	18.05
Lower Limit	132987	10.97	617426	13.09	128183	17.39

Client Sample ID		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA	# RT	AREA	# RT	AREA	# RT
01	Method Blank	205906	11.28	967198	13.41	203106	17.72
02	Lab Control Sample	226753	11.29	1035722	13.42	222619	17.72
03	Duplicate Lab Control Sample	221876	11.30	1015719	13.41	220368	17.72
04	IA-BLDG1-1	222697	11.28	1026833	13.41	225270	17.72
05	IA-BLDG8	212187	11.28	981281	13.41	215785	17.72
06	IA-BLDG9	210287	11.28	967153	13.41	214375	17.72
07	IA-BLDG10	211718	11.28	974392	13.41	217472	17.72
08	IA-BLDG11A	207996	11.28	952003	13.41	213916	17.72
09	IA-BLDG34-4	212868	11.28	986211	13.41	222512	17.72
10	IA-BLDG13A	208917	11.28	957268	13.41	215617	17.72
11	IA-BLDG13B	204294	11.28	941947	13.41	210305	17.72
12	IA-BLDG13B (Lab Duplicate)	204128	11.28	939486	13.41	210797	17.72
13	IA-BLDG21-1	201438	11.28	921602	13.41	204767	17.72
14	IA-BLDG21-2	199463	11.28	919256	13.41	206545	17.72
15	IA-BLDG24-1	200601	11.28	929152	13.41	208123	17.72
16	IA-BLDG24-2	203218	11.28	935743	13.41	207755	17.72
17	IA-BLDG33-1	200235	11.30	919675	13.42	205517	17.72
18	IA-BLDG33-2	200114	11.28	913191	13.41	204407	17.72
19	IA-BLDG34-1	198966	11.30	916719	13.42	202501	17.72
20	IA-BLDG34-2	197382	11.28	908063	13.41	199227	17.72
21	IA-BLDG34-3	193534	11.28	900178	13.41	196963	17.72

IS1 (BCM) = Bromochloromethane

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ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: WSP USA Inc. **ALS Project ID:** P2301250
Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

Internal Standard Area and RT Summary

Test Code: EPA TO-15 **Lab File ID:** 03272301.D
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 **Date Analyzed:** 3/27/23
Analyst: Wida Ang **Time Analyzed:** 03:42
Sample Type: 6.0 L Summa Canister(s)
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA	# RT	AREA	# RT	AREA	# RT
24 Hour Standard	259497	7.33	1140830	9.38	207206	14.88
Upper Limit	363296	7.66	1597162	9.71	290088	15.21
Lower Limit	155698	7.00	684498	9.05	124324	14.55

Client Sample ID		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA	# RT	AREA	# RT	AREA	# RT
01	Method Blank	232832	7.31	1040138	9.36	191886	14.87
02	Lab Control Sample	236345	7.35	1047621	9.39	192464	14.88
03	Duplicate Lab Control Sample	240878	7.35	1075301	9.39	196733	14.88
04	SS-BLDG13A (Dilution)	233577	7.32	1025311	9.37	189342	14.88
05	SS-BLDG13B (Dilution)	234789	7.32	1028274	9.36	191425	14.88
06	SS-BLDG21-2 (Dilution)	228923	7.31	1006724	9.36	186893	14.87
07	SS-BLDG11A (Dilution)	233412	7.32	1003815	9.37	185585	14.87
08	SS-031523A	228976	7.32	1007645	9.38	196210	14.87
09	SS-031523A (Dilution)	230248	7.30	974430	9.36	185143	14.87
10	SS-031523B	228733	7.33	1011616	9.38	197129	14.88
11	IA-BLDG1-2	240177	7.31	1067053	9.36	201732	14.87
12	IA-BLDG2-1	231388	7.31	1030024	9.37	196384	14.88
13	IA-BLDG2-2	231293	7.31	1019821	9.37	196000	14.88
14	IA-BLDG3	225475	7.31	985942	9.36	192259	14.87
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IS1 (BCM) = Bromochloromethane

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ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: WSP USA Inc. **ALS Project ID:** P2301250
Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

Internal Standard Area and RT Summary

Test Code: EPA TO-15 **Lab File ID:** 03272301.D
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 **Date Analyzed:** 3/27/23
Analyst: Wida Ang **Time Analyzed:** 04:21
Sample Type: 6.0 L Summa Canister(s)
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA	# RT	AREA	# RT	AREA	# RT
24 Hour Standard	217846	11.30	1009472	13.42	213618	17.72
Upper Limit	304984	11.63	1413261	13.75	299065	18.05
Lower Limit	130708	10.97	605683	13.09	128171	17.39

Client Sample ID		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA	# RT	AREA	# RT	AREA	# RT
01	Method Blank	199201	11.28	939227	13.41	195607	17.72
02	Lab Control Sample	208121	11.29	966771	13.41	201678	17.72
03	Duplicate Lab Control Sample	216341	11.29	995074	13.41	208160	17.72
04	IA-031523A	208580	11.28	968650	13.41	202856	17.72
05	OA-031523A	205158	11.28	948064	13.41	200004	17.72
06	OA-031523B	204665	11.28	946813	13.41	199840	17.72
07	IA-031523BR	200570	11.28	934031	13.41	198017	17.72
08	IA-BLDG18	198989	11.28	919275	13.41	199035	17.72
09	IA-BLDG6A-2	242789	11.28	1107858	13.41	230017	17.72
10	IA-BLDG6A-1	235376	11.28	1067909	13.41	224607	17.72
11	IA-BLDG5	226196	11.28	1030384	13.41	217973	17.72
12	IA-BLDG4-2	221826	11.28	1019430	13.41	214197	17.72
13	IA-BLDG4-1	216547	11.28	979913	13.41	210249	17.72
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IS1 (BCM) = Bromochloromethane

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ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: WSP USA Inc. **ALS Project ID:** P2301250
Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

Internal Standard Area and RT Summary

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 **Lab File ID:** 03282301.D
Analyst: Topacio Zavala **Date Analyzed:** 3/28/23
Sample Type: 6.0 L Summa Canister(s) **Time Analyzed:** 03:02
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA	#	RT	#	AREA	#
24 Hour Standard	234049	7.33	1032450	9.38	197595	14.88
Upper Limit	327669	7.66	1445430	9.71	276633	15.21
Lower Limit	140429	7.00	619470	9.05	118557	14.55

Client Sample ID		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA	#	RT	#	AREA	#
01	Method Blank	216174	7.32	974420	9.37	183462	14.87
02	Lab Control Sample	231709	7.34	1025442	9.39	196634	14.88
03	Duplicate Lab Control Sample	235870	7.34	1032284	9.39	198101	14.88
04	SS-BLDG18 (Dilution)	233601	7.30	1019495	9.36	192884	14.87
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ALS Environmental - Simi Valley **Method Detection Limit (MDL) Study**

Analytical Method: EPA TO-15 Scan
Matrix: Air
Instrument(s): MS08, MS09, MS13, MS16
Units: ug/m3
Data Date Range: 11/14/17 - 03/20/18

	Spike Level (ug/m3)	Number of Results (n)	Mean	Mean % Rec.	Std Dev	%RSD	MW	MDL _R (ug/m3)	MDL _R (ppbv)
Propene	0.1659	8	0.1684	101.4796	0.0411	24.3989	42.08	0.13	0.076
Dichlorodifluoromethane	0.3144	8	0.2830	90.0127	0.0290	10.2465	120.90	0.087	0.018
Chloromethane	0.3018	8	0.2810	93.1080	0.0285	10.1301	50.49	0.086	0.042
Freon 114	0.3063	8	0.2660	86.8430	0.0277	10.4222	170.90	0.084	0.012
Vinyl Chloride	0.1651	8	0.1508	91.2972	0.0188	12.4796	62.50	0.057	0.022
1,3-Butadiene	0.3177	8	0.2651	83.4514	0.0291	10.9697	54.09	0.088	0.040
Bromomethane	0.2979	8	0.2589	86.9000	0.0245	9.4675	94.94	0.074	0.019
Chloroethane	0.1619	8	0.1513	93.4103	0.0217	14.3716	64.52	0.066	0.025
Ethanol	0.8434	8	0.7743	91.8054	0.1203	15.5431	46.07	0.37	0.20
Acetonitrile	0.3177	8	0.3016	94.9402	0.0432	14.3181	41.05	0.13	0.077
Acrolein	0.3162	8	0.2734	86.4564	0.0491	17.9597	56.06	0.15	0.065
Acetone	NA (MB)	8	0.4159	NA	0.2379	57.2154	58.08	1.2	0.51
Trichlorofluoromethane	0.1682	8	0.1590	94.5528	0.0267	16.8223	137.40	0.081	0.014
Isopropanol	0.6321	8	0.5943	94.0120	0.0712	11.9784	60.10	0.22	0.090
Acrylonitrile	0.3168	8	0.2550	80.4924	0.0357	13.9926	53.06	0.11	0.051
1,1-Dichloroethene	0.1061	8	0.1045	98.4920	0.0245	23.4010	96.94	0.074	0.019
tert-Butanol	0.6360	8	0.5920	93.0818	0.0502	8.4777	74.12	0.16	0.053
Methylene Chloride	NA (MB)	8	0.0930	NA	0.0186	20.0259	84.94	0.15	0.043
Allyl Chloride	0.1686	8	0.1510	89.5398	0.0237	15.7196	76.53	0.072	0.023
Trichlorotrifluoroethane	0.1685	8	0.1606	95.3377	0.0253	15.7496	187.38	0.076	0.0099
Carbon Disulfide	0.3189	8	0.3373	105.7542	0.0515	15.2812	76.14	0.16	0.051
trans-1,2-Dichloroethene	0.1730	8	0.1524	88.0984	0.0245	16.0713	96.94	0.074	0.019
1,1-Dichloroethane	0.3066	8	0.2759	89.9788	0.0257	9.3314	98.96	0.078	0.019
Methyl tert-Butyl Ether	0.3210	8	0.2894	90.1480	0.0209	7.2392	88.15	0.063	0.017
Vinyl Acetate	1.5843	8	1.1704	73.8733	0.3777	32.2735	86.09	1.2	0.34
2-Butanone	0.3156	8	0.2799	88.6803	0.0362	12.9427	72.11	0.11	0.037
cis-1,2-Dichloroethene	0.1707	8	0.1555	91.0848	0.0249	15.9869	96.94	0.075	0.019
Diisopropyl Ether	0.1065	8	0.1039	97.5352	0.0233	22.4032	102.18	0.070	0.017
Ethyl Acetate	0.6408	8	0.5554	86.6690	0.0930	16.7486	88.11	0.28	0.078
n-Hexane	0.1706	8	0.1750	102.6032	0.0341	19.4789	86.17	0.11	0.031
Chloroform	0.1698	8	0.1585	93.3671	0.0234	14.7346	119.40	0.071	0.015
Tetrahydrofuran	0.3192	8	0.3033	95.0031	0.0222	7.3139	72.11	0.067	0.023
Ethyl tert-Butyl Ether	0.3177	8	0.2834	89.1958	0.0212	7.4881	102.18	0.064	0.015
1,2-Dichloroethane	0.1055	8	0.0993	94.0758	0.0195	19.6095	98.96	0.059	0.015
1,1,1-Trichloroethane	0.3231	8	0.2744	84.9195	0.0220	8.0039	133.40	0.066	0.012
Isopropyl Acetate	0.6339	8	0.5565	87.7899	0.0553	9.9425	102.13	0.17	0.041
1-Butanol	0.3382	8	0.2546	75.2794	0.0446	17.5321	74.12	0.14	0.046
Benzene	0.3171	8	0.2785	87.8272	0.0254	9.1343	78.11	0.077	0.024
Carbon Tetrachloride	0.1696	8	0.1463	86.2323	0.0244	16.7077	153.80	0.074	0.012
Cyclohexane	0.6405	8	0.5643	88.0952	0.0471	8.3508	84.16	0.15	0.044
tert-Amyl Methyl Ether	0.3171	8	0.2843	89.6405	0.0217	7.6217	102.18	0.065	0.016
1,2-Dichloropropane	0.3198	8	0.2866	89.6263	0.0219	7.6550	113.00	0.066	0.014
Bromodichloromethane	0.3201	8	0.2633	82.2399	0.0255	9.6714	163.80	0.077	0.011
Trichloroethene	0.1061	8	0.1088	102.4976	0.0239	21.9578	131.40	0.072	0.013
1,4-Dioxane	0.1063	8	0.0878	82.5494	0.0208	23.7155	88.11	0.063	0.017
Isooctane	0.3180	8	0.2870	90.2516	0.0264	9.1979	114.23	0.080	0.017
Methyl Methacrylate	0.6336	8	0.5145	81.2027	0.0624	12.1269	100.12	0.19	0.046
n-Heptane	0.3195	8	0.2828	88.4977	0.0280	9.9095	100.20	0.085	0.021
cis-1,3-Dichloropropene	0.3360	8	0.2754	81.9568	0.0276	10.0148	111.00	0.083	0.018
4-Methyl-2-Pentanone	0.3177	8	0.2708	85.2219	0.0242	8.9447	100.20	0.073	0.018
trans-1,3-Dichloropropene	0.3201	8	0.2346	73.2974	0.0366	15.5902	111.00	0.11	0.024
1,1,2-Trichloroethane	0.3192	8	0.2798	87.6410	0.0178	6.3651	133.40	0.054	0.0099
Toluene	0.3162	8	0.2891	91.4374	0.0214	7.3868	92.14	0.065	0.017
2-Hexanone	0.3180	8	0.2736	86.0456	0.0219	8.0210	100.16	0.066	0.016
Dibromochloromethane	0.3183	8	0.2563	80.5058	0.0231	9.0246	208.30	0.070	0.0082
1,2-Dibromoethane	0.1702	8	0.1443	84.7333	0.0206	14.2542	187.90	0.062	0.0081
Butyl Acetate	0.1709	8	0.1516	88.7319	0.0242	15.9807	116.16	0.073	0.015
n-Octane	0.1696	8	0.1666	98.2459	0.0397	23.8489	114.23	0.12	0.026
Tetrachloroethene	0.1701	8	0.1575	92.6035	0.0228	14.4943	165.80	0.069	0.010
Chlorobenzene	0.1706	8	0.1624	95.2011	0.0234	14.3903	112.60	0.071	0.015
Ethylbenzene	0.1683	8	0.1584	94.0916	0.0250	15.7761	106.20	0.075	0.017
m- & p-Xylene	0.3397	8	0.3140	92.4399	0.0467	14.8637	106.20	0.14	0.032
Bromoform	0.3189	8	0.2293	71.8877	0.0350	15.2890	252.80	0.11	0.011
Styrene	0.1693	8	0.1423	84.0324	0.0286	20.1331	104.10	0.086	0.020
o-Xylene	0.1688	8	0.1553	91.9727	0.0255	16.4319	106.20	0.077	0.018

ALS Environmental - Simi Valley
Method Detection Limit (MDL) Study

n-Nonane	0.3162	8	0.2833	89.5794	0.0294	10.3821	128.26	0.089	0.017
1,1,2,2-Tetrachloroethane	0.1691	8	0.1439	85.0727	0.0246	17.0714	167.90	0.074	0.011
Cumene	0.1683	8	0.1565	92.9777	0.0254	16.2190	120.20	0.077	0.016
alpha-Pinene	0.1674	8	0.1505	89.9259	0.0271	17.9876	136.24	0.082	0.015
n-Propylbenzene	0.1702	8	0.1554	91.2682	0.0256	16.4697	120.19	0.077	0.016
3-Ethyltoluene	0.1680	8	0.1544	91.8899	0.0237	15.3835	120.20	0.072	0.015
4-Ethyltoluene	0.3147	8	0.2720	86.4315	0.0282	10.3596	120.20	0.085	0.017
1,3,5-Trimethylbenzene	0.1678	8	0.1541	91.8285	0.0257	16.6521	120.20	0.077	0.016
alpha-Methylstyrene	0.1678	8	0.1346	80.2103	0.0282	20.9832	118.19	0.085	0.018
2-Ethyltoluene	0.1696	8	0.1563	92.1285	0.0226	14.4401	120.20	0.068	0.014
1,2,4-Trimethylbenzene	0.1682	8	0.1545	91.8768	0.0246	15.9071	120.20	0.074	0.015
n-Decane	0.1694	8	0.1566	92.4369	0.0240	15.3306	142.28	0.072	0.012
Benzyl Chloride	0.3222	8	0.1845	57.2626	0.0400	21.6860	126.59	0.12	0.023
1,3-Dichlorobenzene	0.1714	8	0.1545	90.1611	0.0267	17.2638	147.00	0.080	0.013
1,4-Dichlorobenzene	0.1702	8	0.1546	90.8277	0.0271	17.4973	147.00	0.082	0.014
sec-Butylbenzene	0.1688	8	0.1568	92.8614	0.0240	15.3328	134.22	0.073	0.013
p-Isopropyltoluene	0.1642	8	0.1514	92.2119	0.0269	17.7680	134.22	0.081	0.015
1,2,3-Trimethylbenzene	0.1642	8	0.1481	90.2321	0.0241	16.2524	120.19	0.073	0.015
1,2-Dichlorobenzene	0.1733	8	0.1550	89.4506	0.0262	16.9189	147.00	0.079	0.013
d-Limonene	0.1005	8	0.0905	90.0498	0.0345	38.0992	136.24	0.11	0.020
1,2-Dibromo-3-Chloropropane	0.3153	8	0.2146	68.0701	0.0332	15.4650	236.33	0.10	0.010
n-Undecane	0.1685	8	0.1431	84.9507	0.0437	30.5431	156.31	0.14	0.022
1,2,4-Trichlorobenzene	0.3291	8	0.2576	78.2817	0.0426	16.5412	181.50	0.13	0.018
Naphthalene	0.1690	8	0.1259	74.4999	0.0431	34.2029	128.17	0.13	0.025
n-Dodecane	0.1690	8	0.1171	69.3211	0.0494	42.2196	170.34	0.15	0.022
Hexachloro-1,3-butadiene	0.3171	8	0.2688	84.7524	0.0352	13.1114	260.80	0.11	0.010
Cyclohexanone	0.3117	8	0.2625	84.2156	0.0274	10.4566	98.14	0.083	0.021
tert-Butylbenzene	0.3150	8	0.2748	87.2222	0.0265	9.6429	134.22	0.080	0.015
n-Butylbenzene	0.1686	8	0.1515	89.8363	0.0254	16.7543	134.22	0.077	0.014

Note: Method blanks evaluated per 2016 EPA MUR which ammended the MDL procedure in 40 CFR Appendix B. Any compounds with the spike level indicated as "NA (MB)" had a method blank MDL value higher than the calculated spike sample MDL.

ALS Environmental
MDLs for TO-15 (SCAN)

COMPOUND	06/25/12	01/20/12	05/07/12	05/07/12	05/14/12				MW	FINAL	
	MS3	MS08	MS09	MS13	MS16	MAX				MDL _R	MDL _R
	MDL _R	MDL _R	MDL _R	MDL _R	MDL _R	MDL _R	µg/m³	ppbV		µg/m³	ppbV
Chloropentafluoroethane	0.058	0.140	0.054	0.160	0.230	0.230	0.23	0.036420	154.47	0.23	0.036
Norfluorane (R134a)	0.100	0.140	0.055	0.150	0.230	0.230	0.23	0.055139	102.03	0.23	0.055
1,1-Difluoroethane	0.063	0.140	0.098	0.170	0.260	0.260	0.26	0.096285	66.05	0.26	0.096
Chlorodifluoromethane	0.180	0.160	0.091	0.200	0.250	0.250	0.25	0.070718	86.47	0.25	0.071
1-Chloro-1,1-Difluoroethane	0.140	0.130	0.068	0.150	0.230	0.230	0.23	0.055978	100.5	0.23	0.056
Fluorodichloromethane	0.110	0.140	0.063	0.140	0.240	0.240	0.24	0.057038	102.92	0.24	0.057
Vinylbromide	0.078	0.120	0.052	0.160	0.210	0.210	0.21	0.048028	106.95	0.21	0.048
2,2-Dichloro-1,1,1-trifluoroethane	0.072	0.130	0.060	0.160	0.240	0.240	0.24	0.038386	152.93	0.24	0.038
2-Methylbutane	0.140	0.140	0.110	0.190	0.260	0.260	0.26	0.088144	72.15	0.26	0.088
Methyl Acetate	0.099	0.110	0.120	0.160	0.240	0.240	0.24	0.079244	74.08	0.24	0.079
2-Methylpentane	0.062	0.140	0.066	0.130	0.240	0.240	0.24	0.068118	86.18	0.24	0.068
2,2-Dichloropropane	0.061	0.140	0.130	0.140	0.110	0.140	0.14	0.030307	112.99	0.14	0.030
1,1-Dichloropropene	0.077	0.120	0.049	0.120	0.240	0.240	0.24	0.051955	112.99	0.24	0.052
Thiophene	0.087	0.110	0.065	0.110	0.220	0.220	0.22	0.063955	84.14	0.22	0.064
2,3-Dimethylpentane	0.083	0.130	0.063	0.130	0.240	0.240	0.24	0.058587	100.2	0.24	0.059
Dibromomethane	0.054	0.092	0.032	0.140	0.200	0.200	0.20	0.028142	173.83	0.20	0.028
Methylcyclohexane	0.092	0.120	0.053	0.150	0.260	0.260	0.26	0.064768	98.19	0.26	0.065
1,3-Dichloropropane	0.061	0.120	0.081	0.140	0.260	0.260	0.26	0.056285	112.99	0.26	0.056
1,1,1,2-Tetrachloroethane	0.055	0.120	0.065	0.130	0.230	0.230	0.23	0.033517	167.85	0.23	0.034
1-Chlorohexane	0.090	0.110	0.056	0.180	0.250	0.250	0.25	0.050696	120.62	0.25	0.051
1,2,3-Trichloropropane	0.081	0.092	0.078	0.130	0.250	0.250	0.25	0.041477	147.43	0.25	0.041
Bromobenzene	0.059	0.130	0.076	0.140	0.250	0.250	0.25	0.038947	157.01	0.25	0.039
2-Chlorotoluene	0.070	0.110	0.065	0.130	0.260	0.260	0.26	0.050238	126.59	0.26	0.050
4-Chlorotoluene	0.059	0.140	0.067	0.140	0.260	0.260	0.26	0.050238	126.59	0.26	0.050
Indane	0.063	0.110	0.056	0.140	0.240	0.240	0.24	0.049673	118.18	0.24	0.050
Indene	0.066	0.130	0.070	0.180	0.200	0.200	0.20	0.042114	116.16	0.20	0.042
1,2,4,5-Tetramethylbenzene	0.073	0.091	0.053	0.190	0.220	0.220	0.22	0.040092	134.22	0.22	0.040
1,2,3,4-Tetramethylbenzene	0.075	0.086	0.056	0.180	0.250	0.250	0.25	0.045560	134.22	0.25	0.046
1,2,3,5-Tetramethylbenzene	0.075	0.078	0.063	0.200	0.240	0.240	0.24	0.043737	134.22	0.24	0.044
1,2,3-Trichlorobenzene	0.066	0.160	0.096	0.270	0.250	0.270	0.27	0.036397	181.45	0.27	0.036

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG1

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02015

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/23/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.71 Final Pressure (psig): 3.83

Container Dilution Factor: 1.69

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.7	0.90	0.15	0.55	0.18	0.030	
74-87-3	Chloromethane	ND	0.35	0.15	ND	0.17	0.070	
75-01-4	Vinyl Chloride	0.42	0.19	0.096	0.17	0.073	0.038	
74-83-9	Bromomethane	ND	0.35	0.13	ND	0.091	0.032	
75-00-3	Chloroethane	ND	0.35	0.11	ND	0.13	0.042	
67-64-1	Acetone	39	8.9	2.0	16	3.8	0.85	
75-69-4	Trichlorofluoromethane	1.2	0.88	0.14	0.21	0.16	0.024	
75-35-4	1,1-Dichloroethene	ND	0.19	0.13	ND	0.047	0.032	
75-09-2	Methylene Chloride	5.7	0.90	0.25	1.6	0.26	0.073	
76-13-1	Trichlorotrifluoroethane	0.55	0.91	0.13	0.072	0.12	0.017	J
75-15-0	Carbon Disulfide	1.0	1.8	0.27	0.34	0.58	0.087	J
156-60-5	trans-1,2-Dichloroethene	ND	0.19	0.13	ND	0.047	0.032	
75-34-3	1,1-Dichloroethane	1.8	0.19	0.13	0.45	0.046	0.033	
1634-04-4	Methyl tert-Butyl Ether	0.24	0.91	0.11	0.067	0.25	0.030	J
78-93-3	2-Butanone (MEK)	1.8	1.8	0.19	0.60	0.60	0.063	
156-59-2	cis-1,2-Dichloroethene	1.4	0.19	0.13	0.35	0.047	0.032	
67-66-3	Chloroform	7.5	0.19	0.12	1.5	0.038	0.025	
107-06-2	1,2-Dichloroethane	ND	0.19	0.10	ND	0.046	0.025	
71-55-6	1,1,1-Trichloroethane	6.8	0.19	0.11	1.2	0.034	0.020	
71-43-2	Benzene	2.1	0.19	0.13	0.64	0.058	0.041	
56-23-5	Carbon Tetrachloride	0.54	0.19	0.13	0.087	0.030	0.020	
110-82-7	Cyclohexane	1.2	1.8	0.25	0.36	0.52	0.074	J
78-87-5	1,2-Dichloropropane	ND	0.19	0.11	ND	0.040	0.024	
75-27-4	Bromodichloromethane	0.80	0.19	0.13	0.12	0.028	0.019	
79-01-6	Trichloroethene	29	0.19	0.12	5.5	0.035	0.023	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG1

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02015

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/23/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.71 Final Pressure (psig): 3.83

Container Dilution Factor: 1.69

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.91	0.14	ND	0.20	0.031	
108-10-1	4-Methyl-2-pentanone	0.55	1.9	0.12	0.13	0.45	0.030	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.86	0.19	ND	0.19	0.041	
79-00-5	1,1,2-Trichloroethane	ND	0.19	0.091	ND	0.034	0.017	
108-88-3	Toluene	13	0.90	0.11	3.5	0.24	0.029	
591-78-6	2-Hexanone	ND	1.9	0.11	ND	0.45	0.027	
124-48-1	Dibromochloromethane	ND	0.19	0.12	ND	0.022	0.014	
106-93-4	1,2-Dibromoethane	ND	0.19	0.10	ND	0.024	0.014	
127-18-4	Tetrachloroethene	2.6	0.19	0.12	0.39	0.027	0.017	
108-90-7	Chlorobenzene	0.22	0.90	0.12	0.048	0.19	0.026	J
100-41-4	Ethylbenzene	4.3	0.90	0.13	1.0	0.21	0.029	
179601-23-1	m,p-Xylenes	18	1.9	0.24	4.1	0.43	0.054	
75-25-2	Bromoform	ND	0.91	0.19	ND	0.088	0.018	
100-42-5	Styrene	0.85	0.90	0.15	0.20	0.21	0.034	J
95-47-6	o-Xylene	9.5	0.90	0.13	2.2	0.21	0.030	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.19	0.13	ND	0.027	0.018	
98-82-8	Cumene	1.1	0.91	0.13	0.22	0.19	0.026	
541-73-1	1,3-Dichlorobenzene	ND	0.90	0.14	ND	0.15	0.022	
106-46-7	1,4-Dichlorobenzene	0.20	0.90	0.14	0.033	0.15	0.023	J
95-50-1	1,2-Dichlorobenzene	0.21	0.91	0.13	0.035	0.15	0.022	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.9	0.17	ND	0.19	0.017	
120-82-1	1,2,4-Trichlorobenzene	ND	1.9	0.22	ND	0.25	0.030	
79-20-9	Methyl Acetate	ND	0.85	0.41	ND	0.28	0.13	X
108-87-2	Methylcyclohexane	7.3	0.85	0.44	1.8	0.21	0.11	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS13\DATA\2023_03\23\03232325.D
 Acq On : 23 Mar 2023 20:37
 Sample : P2301250-001 (1000mL)
 Misc : S35-01202301

Vial: 8
 Operator: TZ
 Inst : MS13

TZ 3/27/23

Quant Time: Mar 24 15:19:22 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	217678	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.38	114	950901	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	182577	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	372590	12.898	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	103.20%
57) Toluene-d8 (SS2)	12.48	98	1072065	11.418	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	91.36%
73) Bromofluorobenzene (SS3)	16.85	174	424222	12.336	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	98.72%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	3.46	85	64238	1.611	ng	99
4) Chloromethane	0.00	50	0	N.D.	d	
5) 1,2-Dichloro-1,1,2,2-t...	3.72	135	1433	0.071	ng	90
6) Vinyl Chloride	3.79	62	6652	0.250	ng	91
7) 1,3-Butadiene	0.00	54	0	N.D.	d	
8) Bromomethane	4.09	94	112	N.D.		
9) Chloroethane	4.26	64	285	N.D.		
10) Ethanol	4.40	45	171377	11.085	ng	100
11) Acetonitrile	0.00	41	0	N.D.	d	
12) Acrolein	4.62	56	2868	0.224	ng	91
13) Acetone	4.73	58	304343	23.066	ng	96
14) Trichlorofluoromethane	4.86	101	25461	0.709	ng	96
15) 2-Propanol (Isopropanol)	4.94	45	125238	2.351	ng	97
16) Acrylonitrile	5.11	53	722	N.D.		
17) 1,1-Dichloroethene	5.36	96	803	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.44	84	64711	3.346	ng	98
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	5.66	151	6139	0.325	ng	96
22) Carbon Disulfide	5.70	76	47335	0.618	ng	100
23) trans-1,2-Dichloroethene	6.22	61	830	N.D.		
24) 1,1-Dichloroethane	6.41	63	36869	1.071	ng	100
25) Methyl tert-Butyl Ether	6.48	73	8619	0.143	ng	100
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	6.76	72	12336	1.053	ng	99
28) cis-1,2-Dichloroethene	7.16	61	23122	0.832	ng	97
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	7.37	61	51815	6.727	ng	97
31) n-Hexane	7.38	57	70914	2.392	ng	98
32) Chloroform	7.44	83	156091	4.451	ng	100
34) Tetrahydrofuran (THF)	7.86	72	3526	0.293	ng	# 74
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.20	62	465	N.D.		
38) 1,1,1-Trichloroethane	8.47	97	125959	4.002	ng	99
39) Isopropyl Acetate	9.37	61	28589	No Calib		
40) 1-Butanol	8.87	56	68951	No Calib	#	
41) Benzene	8.97	78	89776	1.214	ng	99
42) Carbon Tetrachloride	9.14	117	8930	0.322	ng	97
43) Cyclohexane	9.29	84	19842	0.732	ng	97
44) tert-Amyl Methyl Ether	9.69	73	146	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	10.14	83	12934	0.473	ng	86
47) Trichloroethene	10.21	130	375734	17.338	ng	100
48) 1,4-Dioxane	0.00	88	0	N.D.	d	
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.	d	
50) Methyl Methacrylate	10.48	100	158	N.D.		

Data File : I:\MS13\DATA\2023_03\23\03232325.D
 Acq On : 23 Mar 2023 20:37
 Sample : P2301250-001 (1000mL)
 Misc : S35-01202301

Vial: 8
 Operator: TZ
 Inst : MS13

Quant Time: Mar 24 15:19:22 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

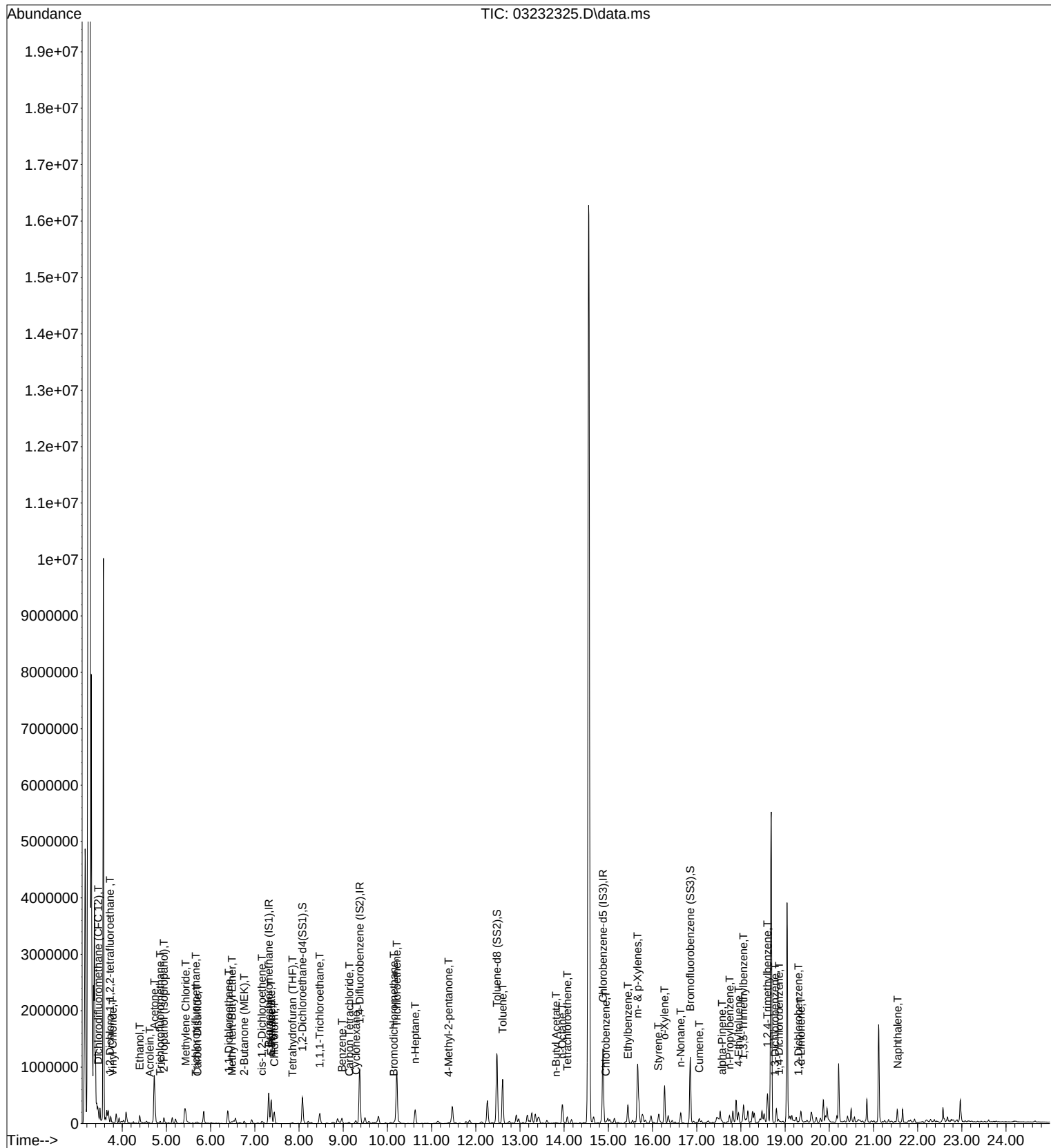
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.63	71	69543	3.885	ng	99
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.38	58	5213	0.327	ng	90
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	12.12	97	740	N.D.		
58) Toluene	12.61	91	702480	7.859	ng	100
59) 2-Hexanone	0.00	43	0	N.D.	d	
60) Dibromochloromethane	13.11	129	133	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.81	43	14509	0.294	ng	86
63) n-Octane	13.96	57	58128	3.307	ng	96
64) Tetrachloroethene	14.07	166	42067	1.547	ng	99
65) Chlorobenzene	14.94	112	7706	0.131	ng	92
66) Ethylbenzene	15.44	91	272821	2.558	ng	100
67) m- & p-Xylenes	15.66	91	897195	10.454	ng	98
68) Bromoform	15.72	173	329	N.D.		
69) Styrene	16.13	104	29512	0.500	ng	99
70) o-Xylene	16.27	91	461165	5.619	ng	100
71) n-Nonane	16.64	43	75178	1.893	ng	97
72) 1,1,2,2-Tetrachloroethane	16.26	83	376	N.D.		
74) Cumene	17.06	105	62827	0.629	ng	99
75) alpha-Pinene	17.58	93	16340	0.355	ng	96
76) n-Propylbenzene	17.74	91	113039	0.945	ng	99
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	84327	0.881	ng	99
79) 1,3,5-Trimethylbenzene	18.06	105	171366	2.024	ng	99
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.60	105	292085	3.498	ng	89
83) n-Decane	17.05	58	454	No Calib	#	
84) Benzyl Chloride	0.00	91	0	N.D.	d	
85) 1,3-Dichlorobenzene	18.77	146	3399	0.067	ng	97
86) 1,4-Dichlorobenzene	18.86	146	6169	0.118	ng	99
87) sec-Butylbenzene	0.00	105	0	N.D.	d	
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.	d	
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.30	146	6142	0.123	ng	99
91) d-Limonene	19.36	68	41350	1.465	ng	96
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.26	58	5973	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	536	N.D.		
95) Naphthalene	21.55	128	28813	0.318	ng	97
96) n-Dodecane	19.20	58	901	No Calib	#	
97) Hexachlorobutadiene	21.99	225	234	N.D.		
98) Cyclohexanone	15.65	55	11456	No Calib	#	
99) tert-Butylbenzene	0.00	119	0	N.D.	d	
100) n-Butylbenzene	0.00	91	0	N.D.	d	
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\23\03232325.D
Acq On : 23 Mar 2023 20:37
Sample : P2301250-001 (1000mL)
Misc : S35-01202301

Vial: 8
Operator: TZ
Inst : MS13

Quant Time: Mar 24 15:19:22 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\23\03232325.D
 Acq On : 23 Mar 2023 20:37
 Sample : P2301250-001 (1000mL)
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TZ 3/24/23

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Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

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1) Bromochloromethane (IS1)	7.32	130	217678	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.38	114	950901	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	182577	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	372590	12.898	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	103.20%
57) Toluene-d8 (SS2)	12.48	98	1072065	11.418	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	91.36%
73) Bromofluorobenzene (SS3)	16.85	174	424222	12.336	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	98.72%

Target Compounds

						Qvalue
3) Dichlorodifluoromethan...	3.46	85	64238	1.611	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	3.72	135	1433	0.071	ng	90
6) Vinyl Chloride	3.79	62	6652	0.250	ng	91
10) Ethanol	4.40	45	171377	11.085	ng	100
12) Acrolein	4.62	56	2868	0.224	ng	91
13) Acetone	4.73	58	304343	23.066	ng	96
14) Trichlorofluoromethane	4.86	101	25461	0.709	ng	96
15) 2-Propanol (Isopropanol)	4.94	45	125238	2.351	ng	97
19) Methylene Chloride	5.44	84	64711	3.346	ng	98
21) Trichlorotrifluoroethane	5.66	151	6139	0.325	ng	96
22) Carbon Disulfide	5.70	76	47335	0.618	ng	100
24) 1,1-Dichloroethane	6.41	63	36869	1.071	ng	100
25) Methyl tert-Butyl Ether	6.48	73	8619	0.143	ng	100
27) 2-Butanone (MEK)	6.76	72	12336	1.053	ng	99
28) cis-1,2-Dichloroethene	7.16	61	23122	0.832	ng	97
30) Ethyl Acetate	7.37	61	51815	6.727	ng	97
31) n-Hexane	7.38	57	70914	2.392	ng	98
32) Chloroform	7.44	83	156091	4.451	ng	100
34) Tetrahydrofuran (THF)	7.86	72	3526	0.293	ng	# 74
38) 1,1,1-Trichloroethane	8.47	97	125959	4.002	ng	99
41) Benzene	8.97	78	89776	1.214	ng	99
42) Carbon Tetrachloride	9.14	117	8930	0.322	ng	97
43) Cyclohexane	9.29	84	19842	0.732	ng	97
46) Bromodichloromethane	10.14	83	12934	0.473	ng	86
47) Trichloroethene	10.21	130	375734	17.338	ng	100
51) n-Heptane	10.63	71	69543	3.885	ng	99
53) 4-Methyl-2-pentanone	11.38	58	5213	0.327	ng	90
58) Toluene	12.61	91	702480	7.859	ng	100
62) n-Butyl Acetate	13.81	43	14509	0.294	ng	86
63) n-Octane	13.96	57	58128	3.307	ng	96
64) Tetrachloroethene	14.07	166	42067	1.547	ng	99
65) Chlorobenzene	14.94	112	7706	0.131	ng	92
66) Ethylbenzene	15.44	91	272821	2.558	ng	100
67) m- & p-Xylenes	15.66	91	897195	10.454	ng	98
69) Styrene	16.13	104	29512	0.500	ng	99
70) o-Xylene	16.27	91	461165	5.619	ng	100
71) n-Nonane	16.64	43	75178	1.893	ng	97
74) Cumene	17.06	105	62827	0.629	ng	99
75) alpha-Pinene	17.58	93	16340	0.355	ng	96
76) n-Propylbenzene	17.74	91	113039	0.945	ng	99
78) 4-Ethyltoluene	17.95	105	84327	0.881	ng	99
79) 1,3,5-Trimethylbenzene	18.06	105	171366	2.024	ng	99
82) 1,2,4-Trimethylbenzene	18.60	105	292085	3.498	ng	89
85) 1,3-Dichlorobenzene	18.77	146	3399	0.067	ng	97
86) 1,4-Dichlorobenzene	18.86	146	6169	0.118	ng	99
90) 1,2-Dichlorobenzene	19.30	146	6142	0.123	ng	99
91) d-Limonene	19.36	68	41350	1.465	ng	96

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Acq On : 23 Mar 2023 20:37
Sample : P2301250-001 (1000mL)
Misc : S35-01202301

Vial: 8
Operator: TZ
Inst : MS13

Quant Time: Mar 24 15:19:22 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M

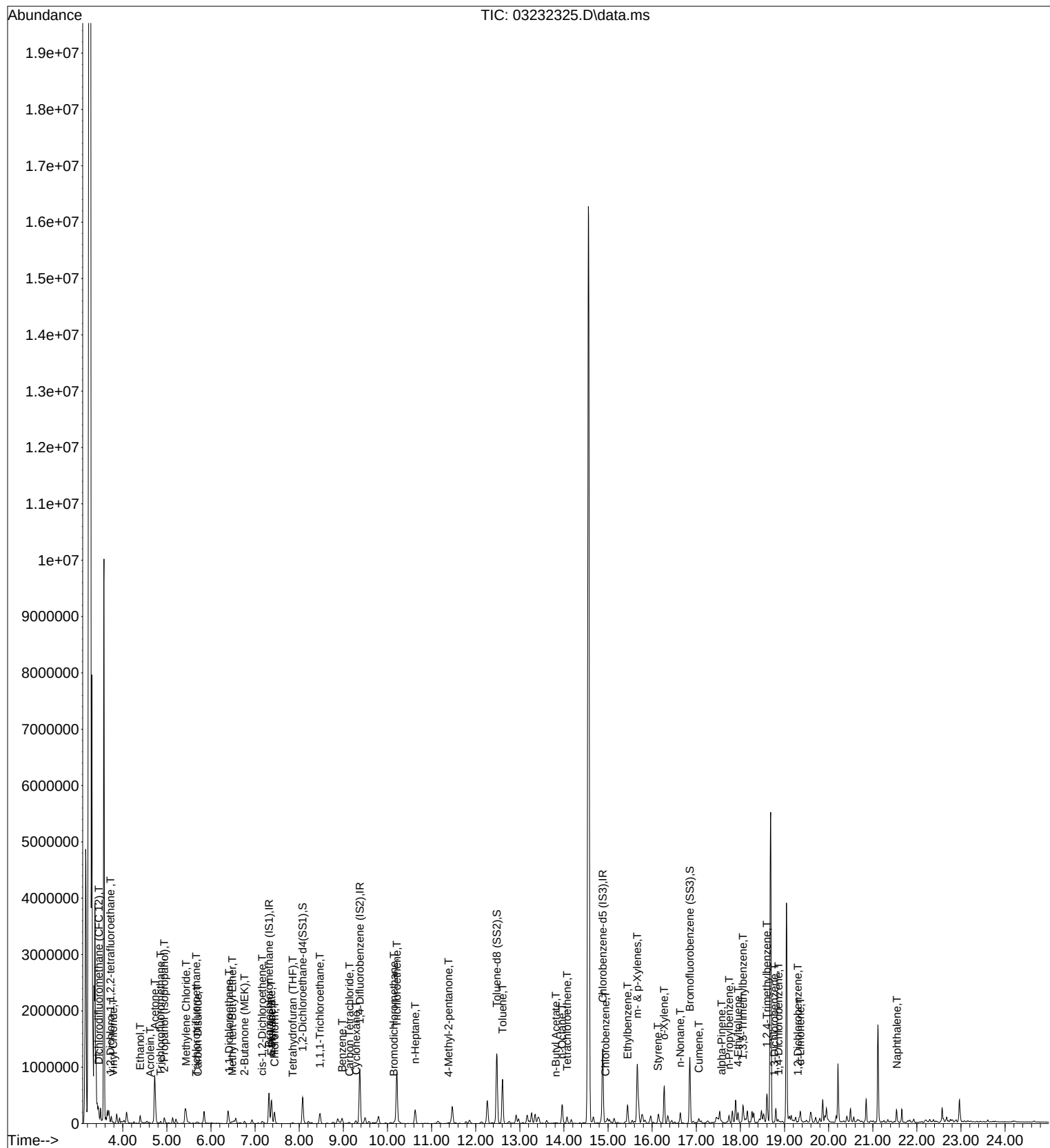
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) Naphthalene	21.55	128	28813	0.318	ng	97

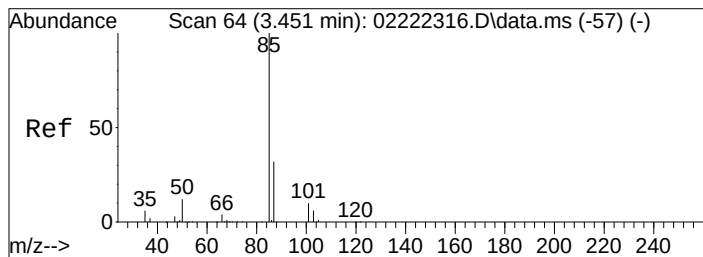
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS13\DATA\2023_03\23\03232325.D
Acq On : 23 Mar 2023 20:37
Sample : P2301250-001 (1000mL)
Misc : S35-01202301

Vial: 8
Operator: TZ
Inst : MS13

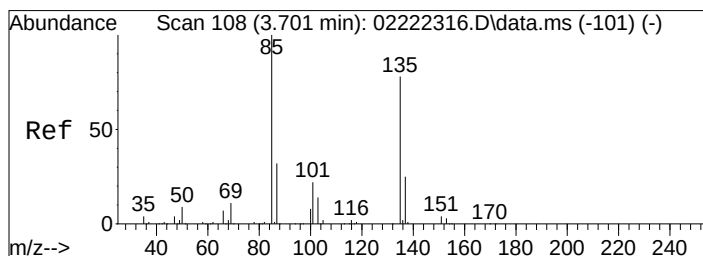
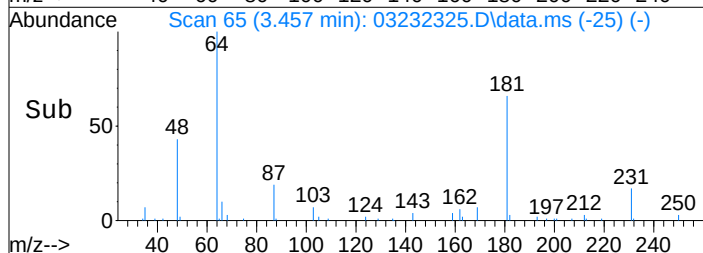
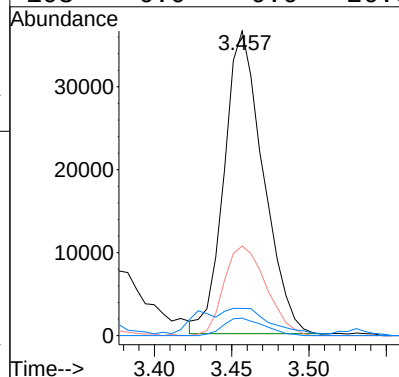
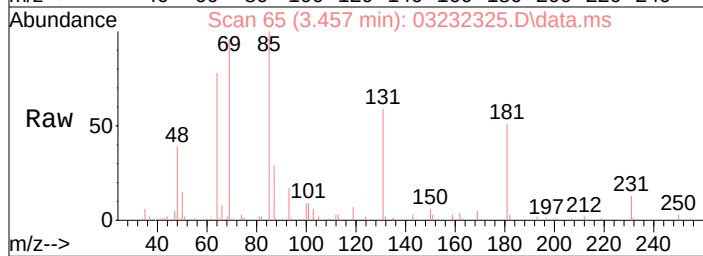
Quant Time: Mar 24 15:19:22 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M





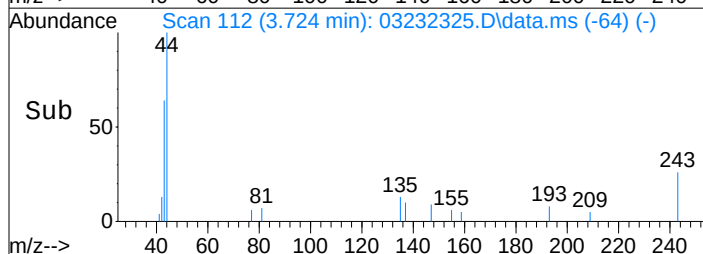
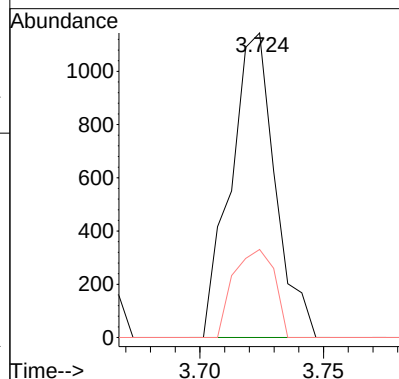
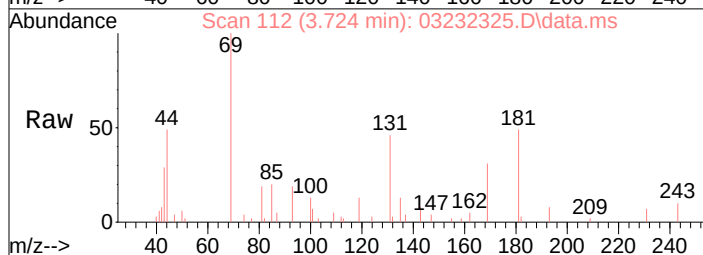
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.61 ng
 RT: 3.46 min Scan# 65
 Delta R.T. -0.021 min
 Lab File: 03232325.D
 Acq: 23 Mar 2023 20:37

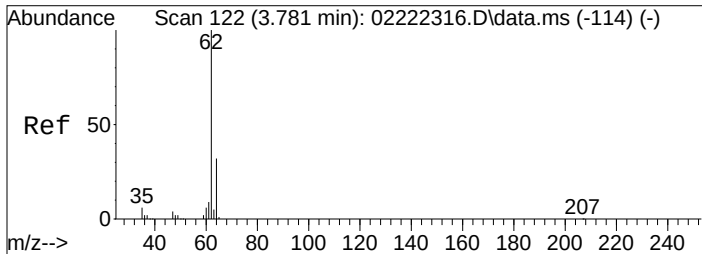
Tgt Ion:	85	Resp:	64238
Ion Ratio	Lower	Upper	
85	100		
87	31.9	12.4	52.4
101	9.6	0.0	29.4
103	6.0	0.0	26.0



#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.07 ng
 RT: 3.72 min Scan# 112
 Delta R.T. 0.023 min
 Lab File: 03232325.D
 Acq: 23 Mar 2023 20:37

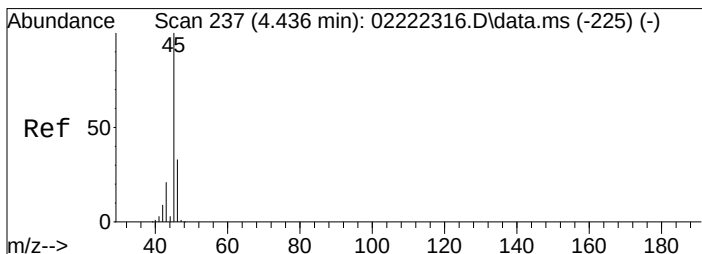
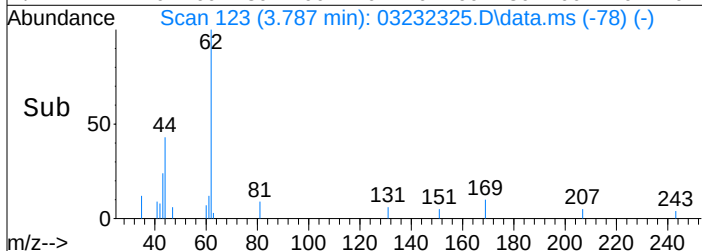
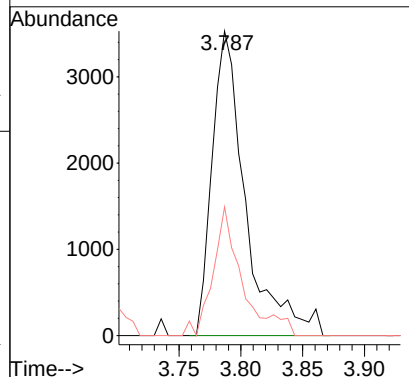
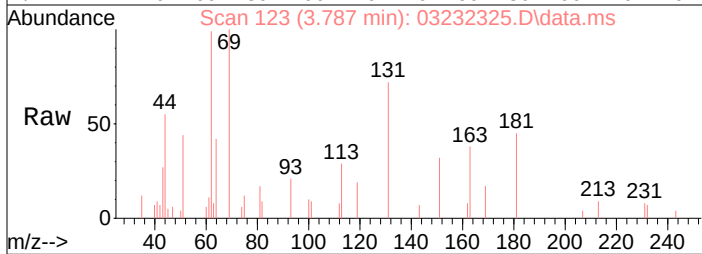
Tgt Ion:	135	Resp:	1433
Ion Ratio	Lower	Upper	
135	100		
137	26.7	12.2	52.2





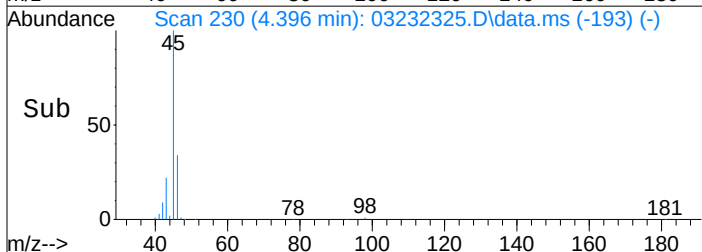
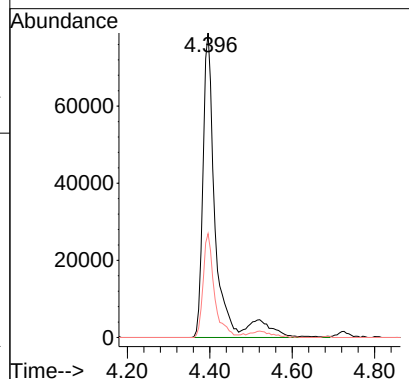
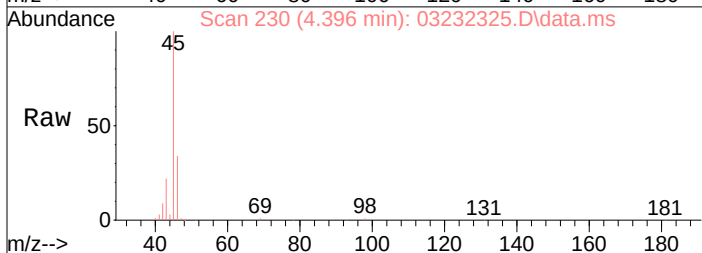
#6
 Vinyl Chloride
 Concen: 0.25 ng
 RT: 3.79 min Scan# 123
 Delta R.T. 0.006 min
 Lab File: 03232325.D
 Acq: 23 Mar 2023 20:37

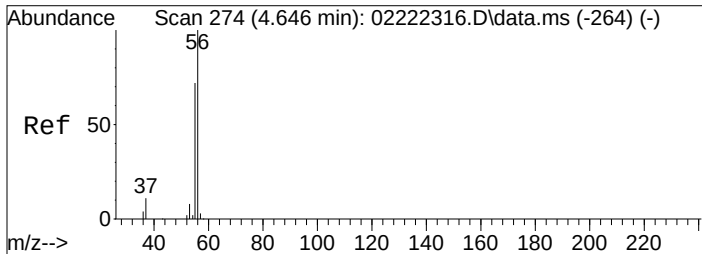
Tgt Ion: 62 Resp: 6652
 Ion Ratio Lower Upper
 62 100
 64 36.8 11.8 51.8



#10
 Ethanol
 Concen: 11.09 ng
 RT: 4.40 min Scan# 230
 Delta R.T. -0.040 min
 Lab File: 03232325.D
 Acq: 23 Mar 2023 20:37

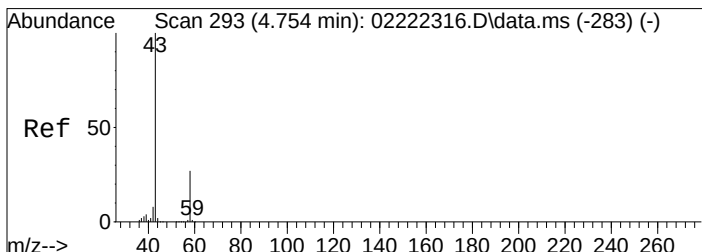
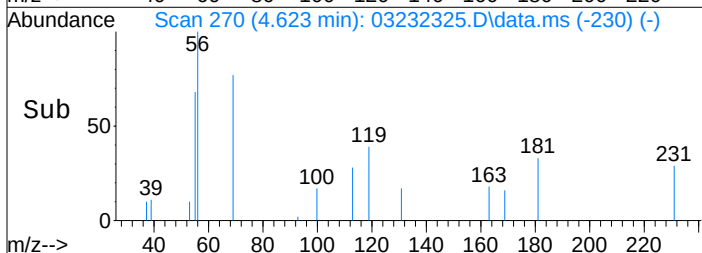
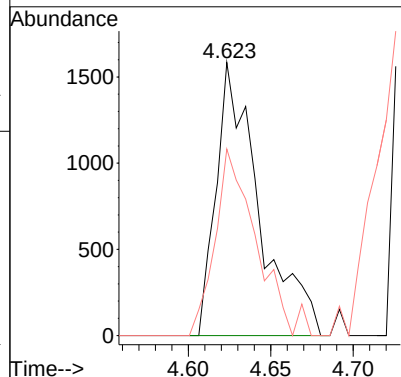
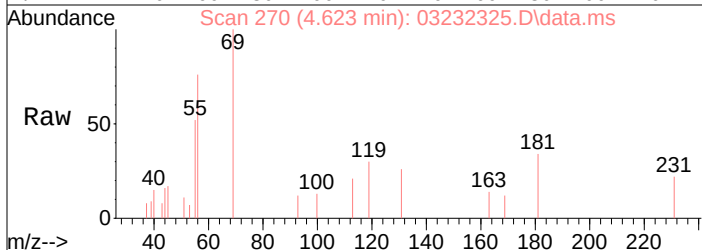
Tgt Ion: 45 Resp: 171377
 Ion Ratio Lower Upper
 45 100
 46 33.8 13.8 53.8





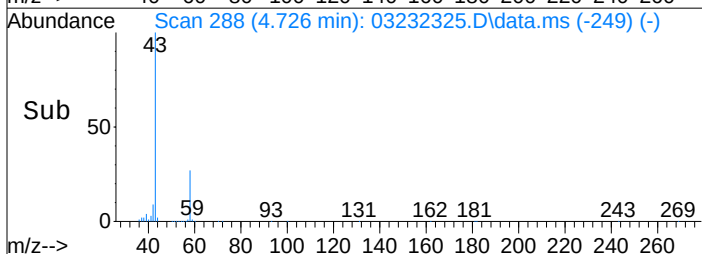
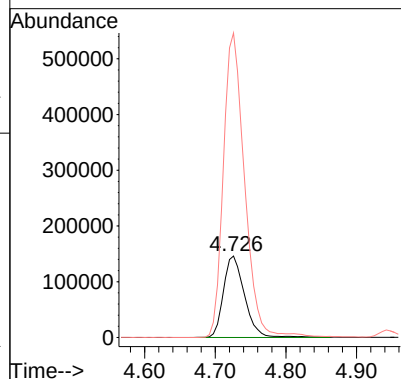
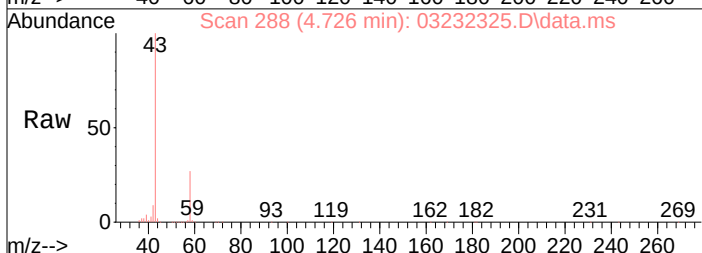
#12
 Acrolein
 Concen: 0.22 ng
 RT: 4.62 min Scan# 270
 Delta R.T. -0.023 min
 Lab File: 03232325.D
 Acq: 23 Mar 2023 20:37

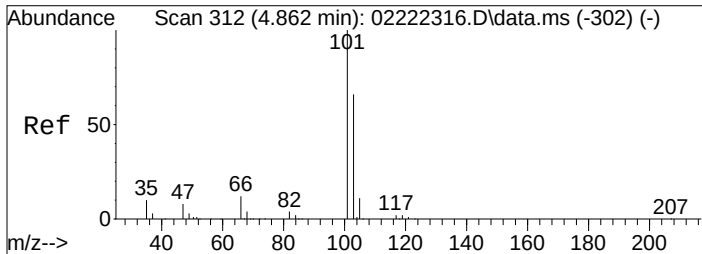
Tgt Ion: 56 Resp: 2868
 Ion Ratio Lower Upper
 56 100
 55 63.4 50.9 90.9



#13
 Acetone
 Concen: 23.07 ng
 RT: 4.73 min Scan# 288
 Delta R.T. -0.028 min
 Lab File: 03232325.D
 Acq: 23 Mar 2023 20:37

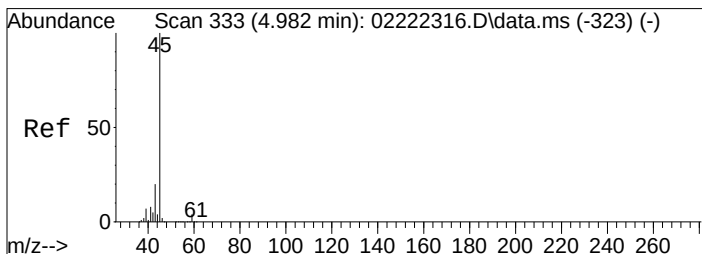
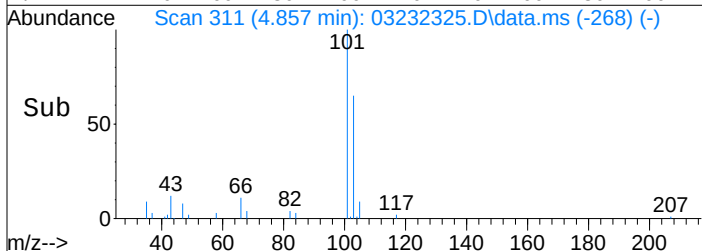
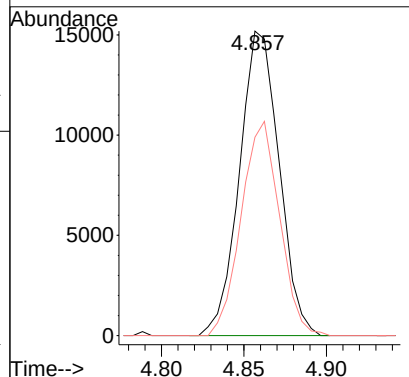
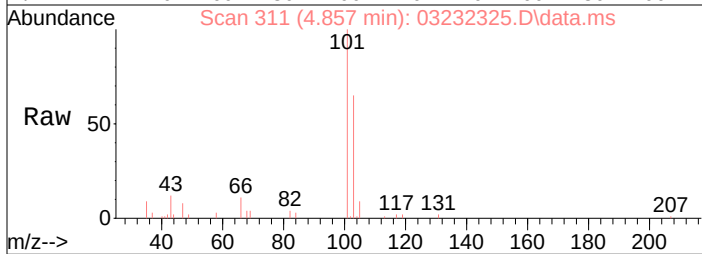
Tgt Ion: 58 Resp: 304343
 Ion Ratio Lower Upper
 58 100
 43 376.7 337.8 397.8





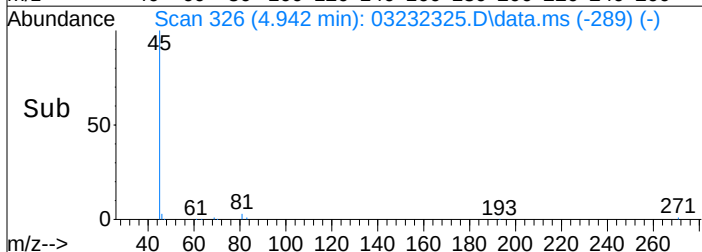
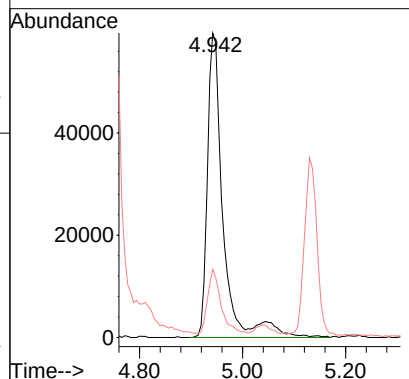
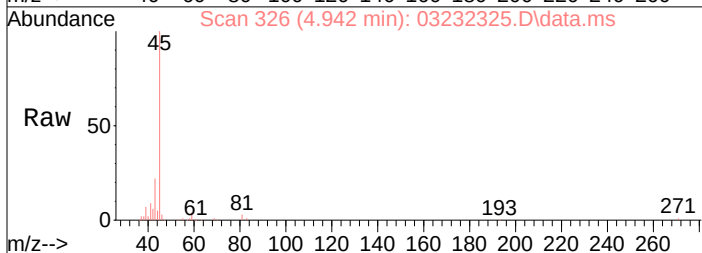
#14
 Trichlorofluoromethane
 Concen: 0.71 ng
 RT: 4.86 min Scan# 311
 Delta R.T. -0.006 min
 Lab File: 03232325.D
 Acq: 23 Mar 2023 20:37

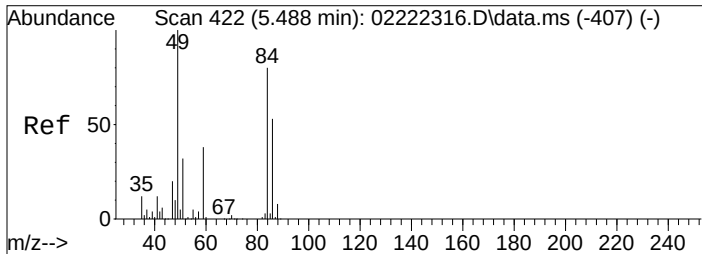
Tgt Ion: 101 Resp: 25461
 Ion Ratio Lower Upper
 101 100
 103 68.0 45.2 85.2



#15
 2-Propanol (Isopropanol)
 Concen: 2.35 ng
 RT: 4.94 min Scan# 326
 Delta R.T. -0.040 min
 Lab File: 03232325.D
 Acq: 23 Mar 2023 20:37

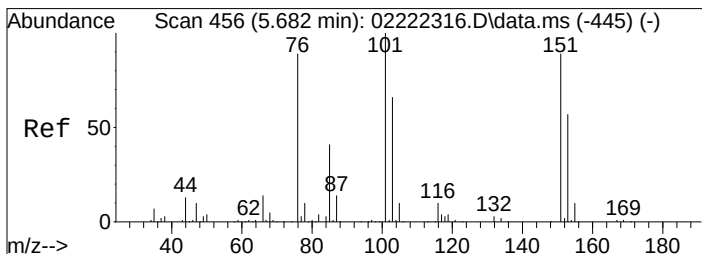
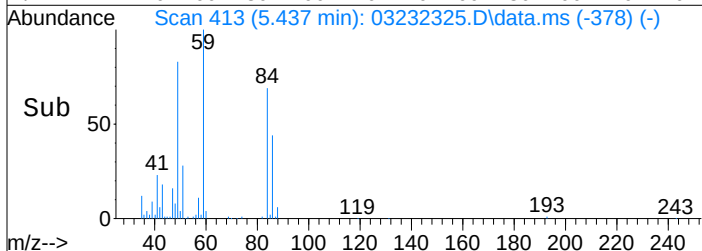
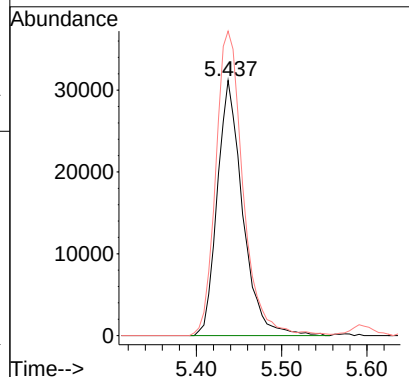
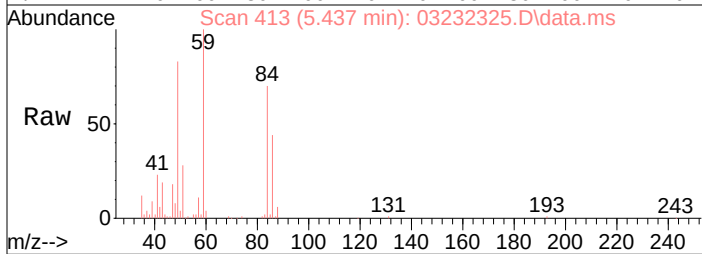
Tgt Ion: 45 Resp: 125238
 Ion Ratio Lower Upper
 45 100
 43 18.3 0.0 39.7





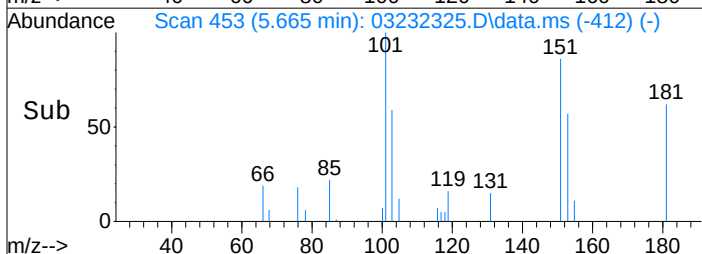
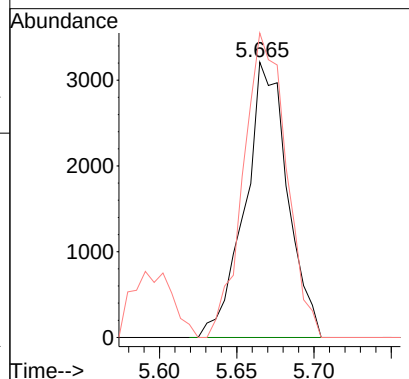
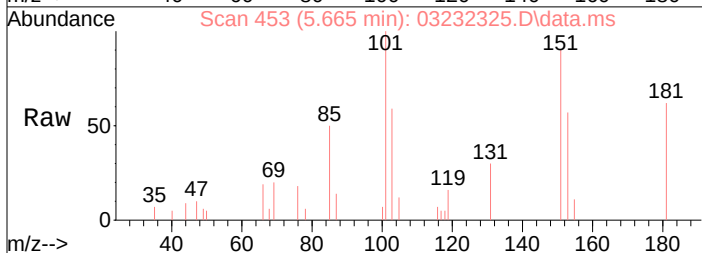
#19
Methylene Chloride
Concen: 3.35 ng
RT: 5.44 min Scan# 413
Delta R.T. -0.051 min
Lab File: 03232325.D
Acq: 23 Mar 2023 20:37

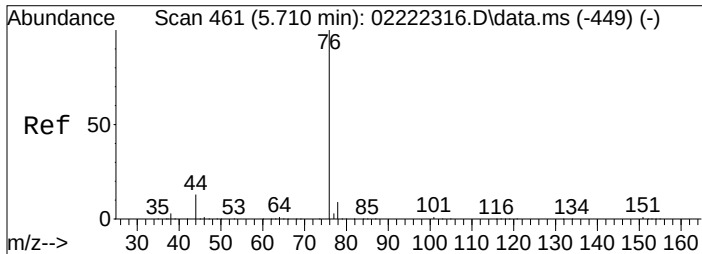
Tgt Ion: 84 Resp: 64711
Ion Ratio Lower Upper
84 100
49 128.3 101.3 151.3



#21
Trichlorotrifluoroethane
Concen: 0.33 ng
RT: 5.66 min Scan# 453
Delta R.T. -0.017 min
Lab File: 03232325.D
Acq: 23 Mar 2023 20:37

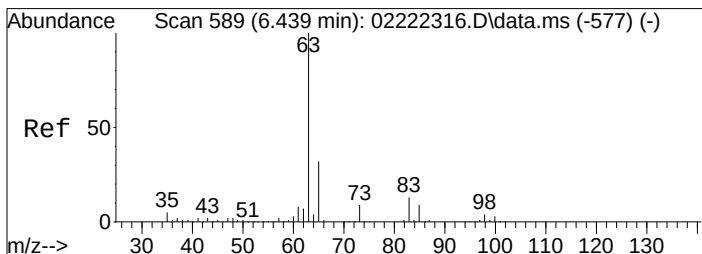
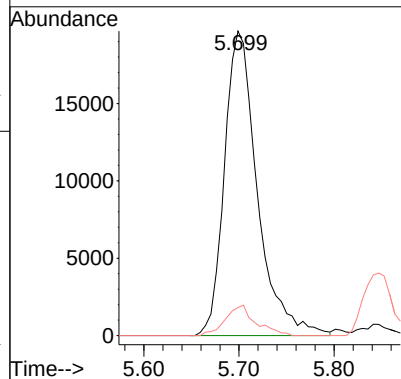
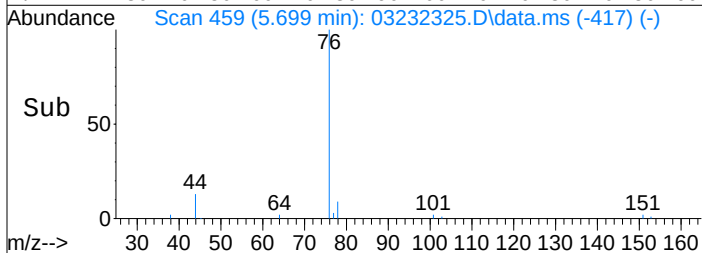
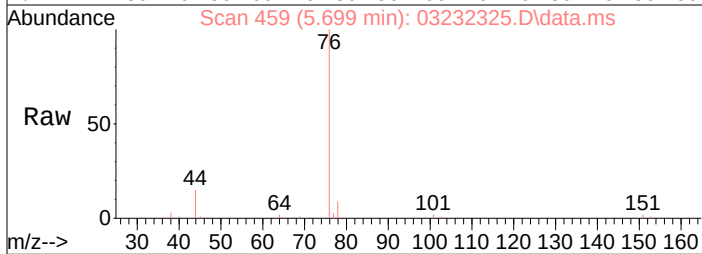
Tgt Ion: 151 Resp: 6139
Ion Ratio Lower Upper
151 100
101 112.0 96.3 136.3





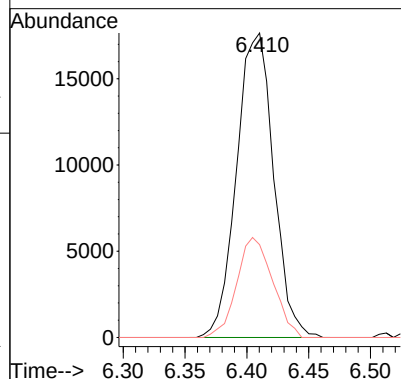
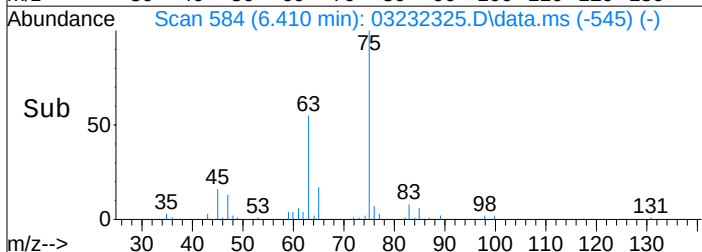
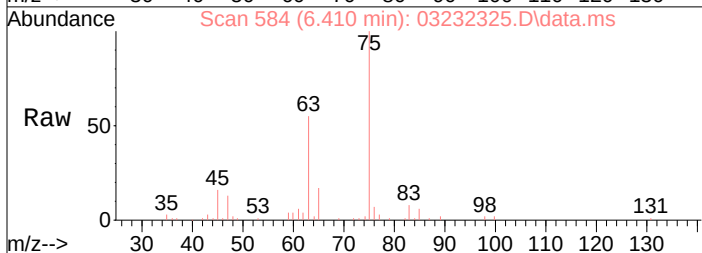
#22
Carbon Disulfide
Concen: 0.62 ng
RT: 5.70 min Scan# 459
Delta R.T. -0.011 min
Lab File: 03232325.D
Acq: 23 Mar 2023 20:37

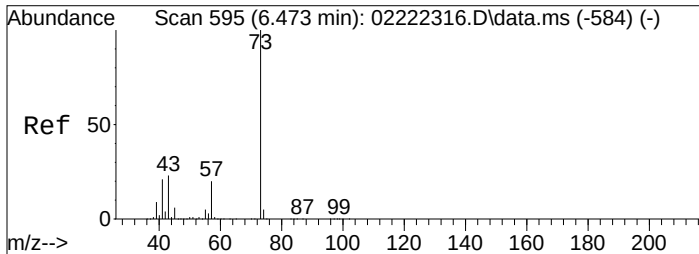
Tgt Ion: 76 Resp: 47335
Ion Ratio Lower Upper
76 100
78 9.1 0.0 29.3



#24
1,1-Dichloroethane
Concen: 1.07 ng
RT: 6.41 min Scan# 584
Delta R.T. -0.028 min
Lab File: 03232325.D
Acq: 23 Mar 2023 20:37

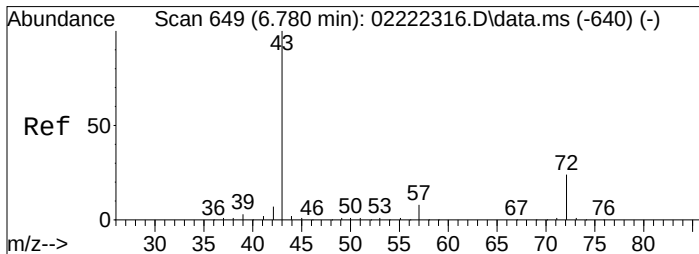
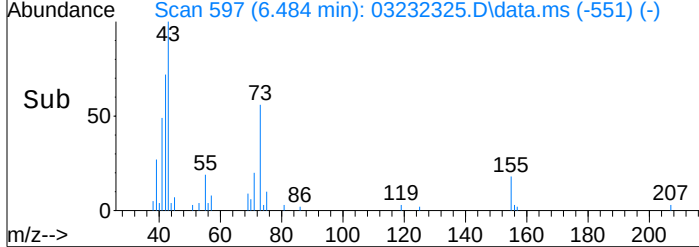
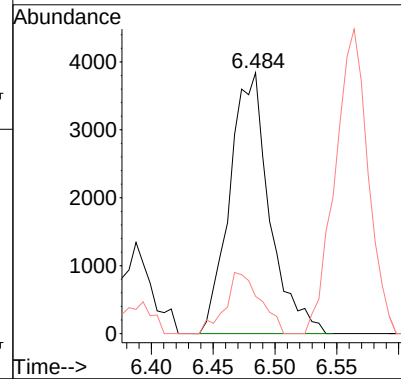
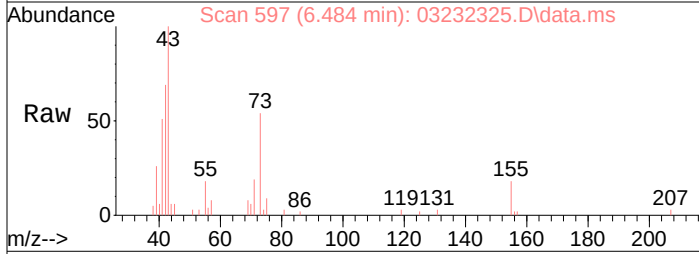
Tgt Ion: 63 Resp: 36869
Ion Ratio Lower Upper
63 100
65 31.9 12.0 52.0





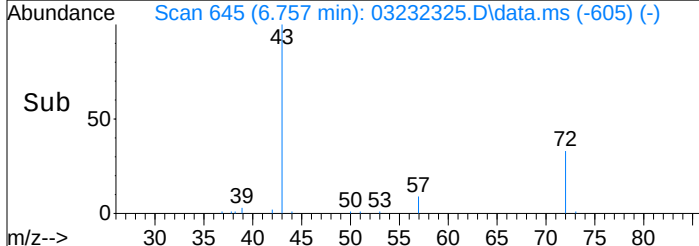
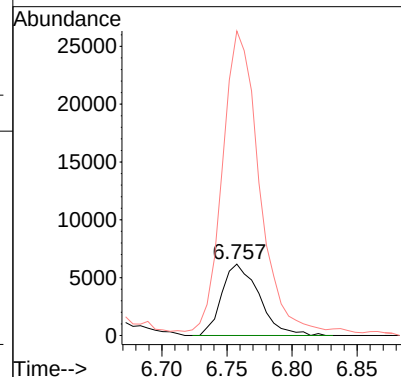
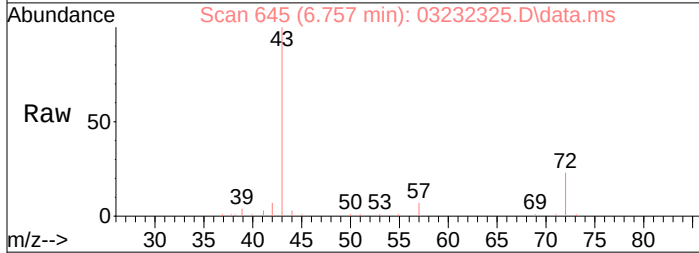
#25
Methyl tert-Butyl Ether
Concen: 0.14 ng
RT: 6.48 min Scan# 597
Delta R.T. 0.011 min
Lab File: 03232325.D
Acq: 23 Mar 2023 20:37

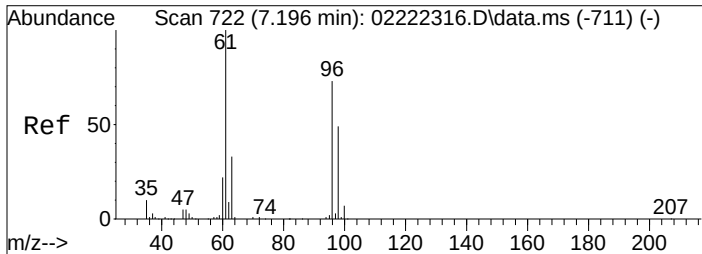
Tgt Ion: 73 Resp: 8619
Ion Ratio Lower Upper
73 100
57 20.5 0.6 40.6



#27
2-Butanone (MEK)
Concen: 1.05 ng
RT: 6.76 min Scan# 645
Delta R.T. -0.023 min
Lab File: 03232325.D
Acq: 23 Mar 2023 20:37

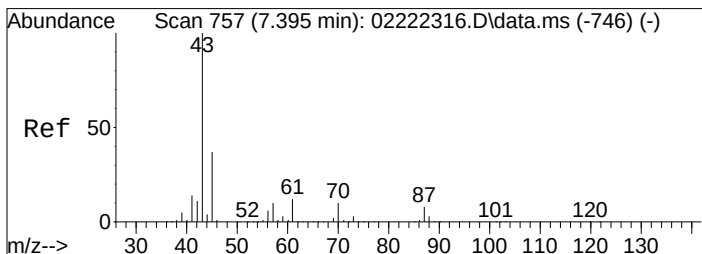
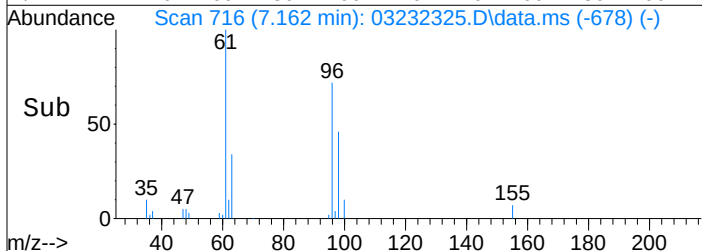
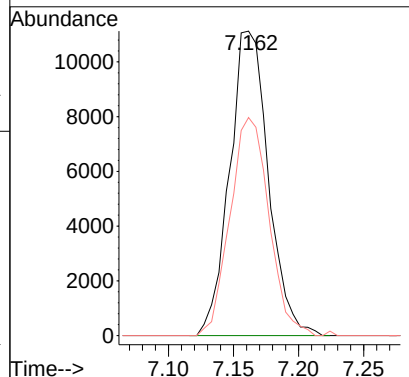
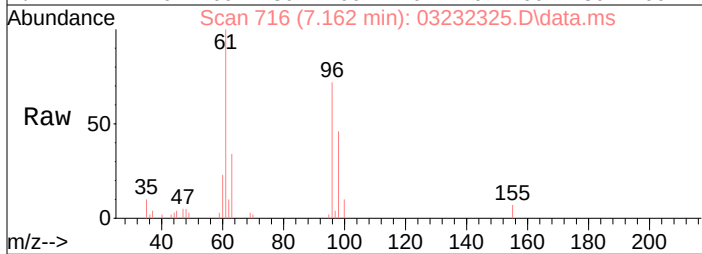
Tgt Ion: 72 Resp: 12336
Ion Ratio Lower Upper
72 100
43 416.9 400.5 440.5





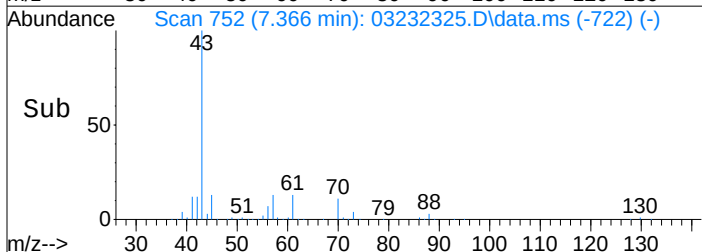
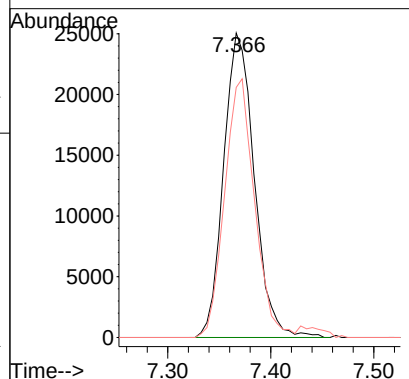
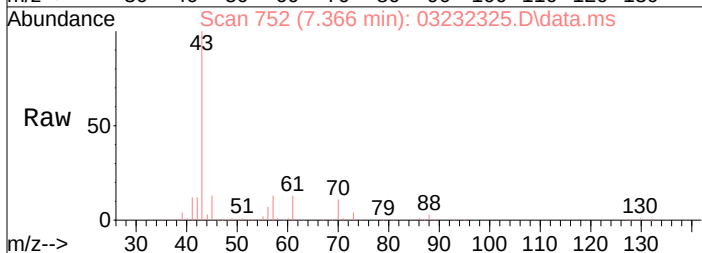
#28
 cis-1,2-Dichloroethene
 Concen: 0.83 ng
 RT: 7.16 min Scan# 716
 Delta R.T. -0.034 min
 Lab File: 03232325.D
 Acq: 23 Mar 2023 20:37

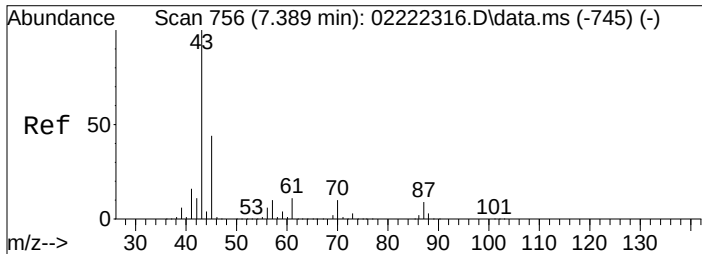
Tgt Ion:	61	Resp:	23122
Ion Ratio		Lower	Upper
61	100		
96	71.7	54.5	94.5



#30
 Ethyl Acetate
 Concen: 6.73 ng
 RT: 7.37 min Scan# 752
 Delta R.T. -0.028 min
 Lab File: 03232325.D
 Acq: 23 Mar 2023 20:37

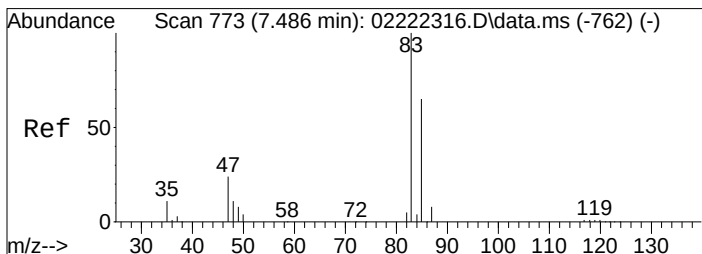
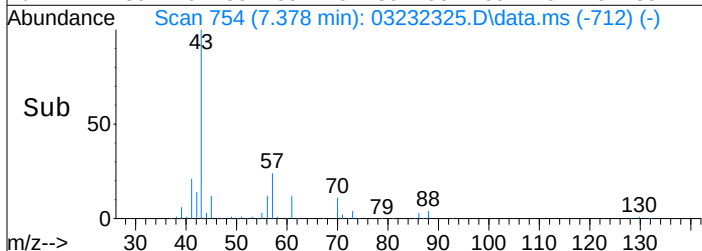
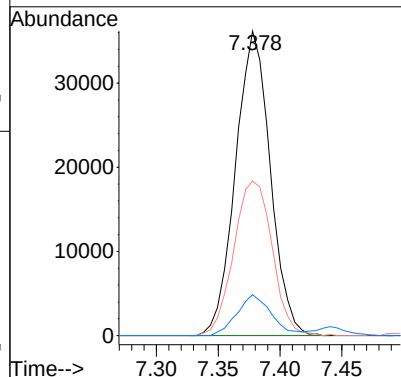
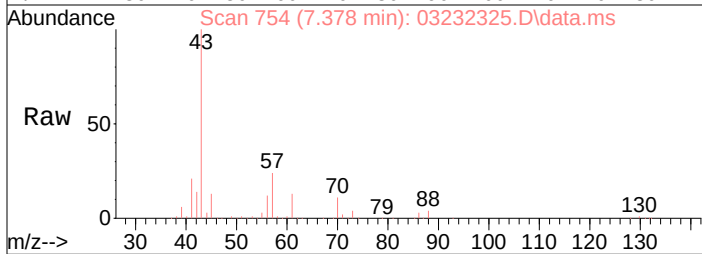
Tgt Ion:	61	Resp:	51815
Ion Ratio		Lower	Upper
61	100		
70	83.1	65.6	105.6





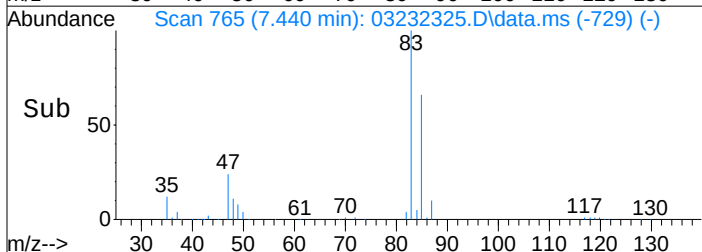
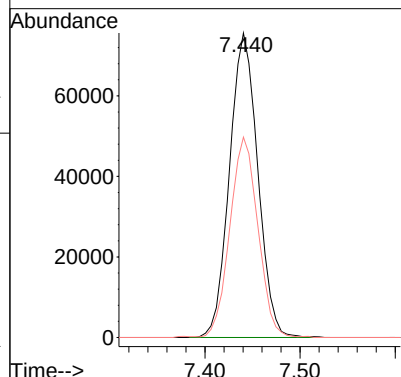
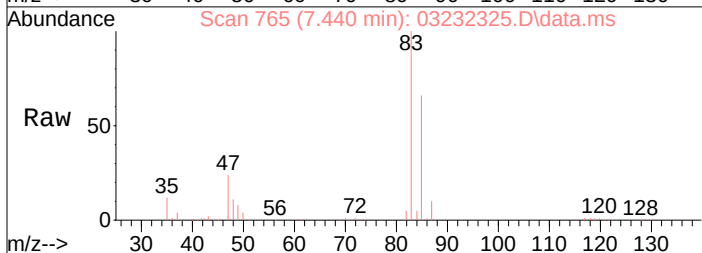
#31
n-Hexane
Concen: 2.39 ng
RT: 7.38 min Scan# 754
Delta R.T. -0.011 min
Lab File: 03232325.D
Acq: 23 Mar 2023 20:37

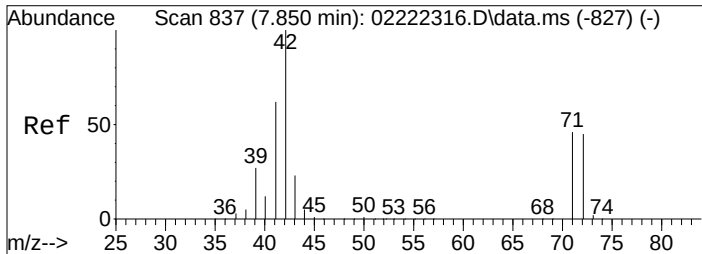
Tgt Ion:	57	Resp:	70914
Ion Ratio	Lower	Upper	
57	100		
56	56.1	44.0	66.0
86	13.3	11.5	17.3



#32
Chloroform
Concen: 4.45 ng
RT: 7.44 min Scan# 765
Delta R.T. -0.046 min
Lab File: 03232325.D
Acq: 23 Mar 2023 20:37

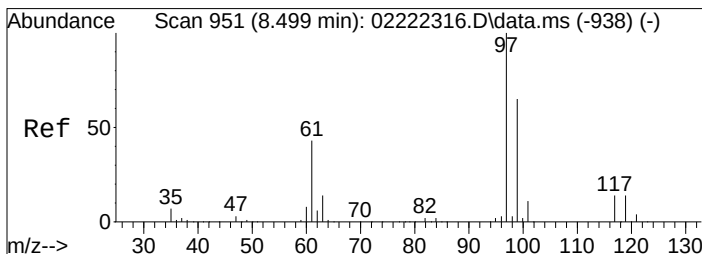
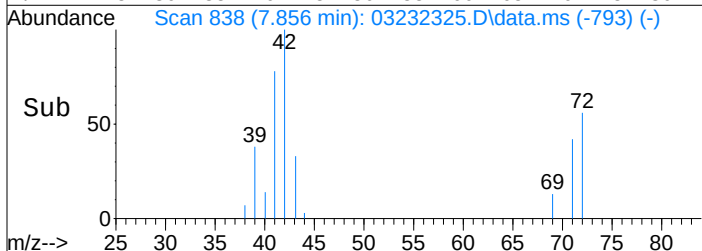
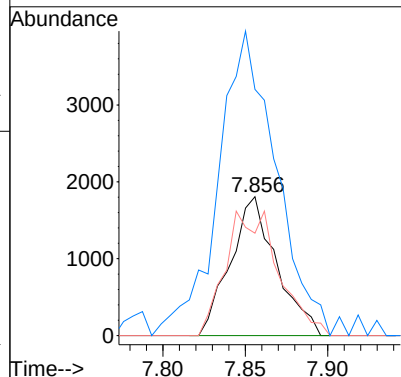
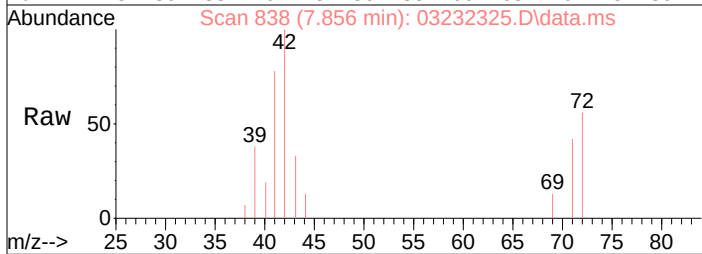
Tgt Ion:	83	Resp:	156091
Ion Ratio	Lower	Upper	
83	100		
85	65.3	45.0	85.0





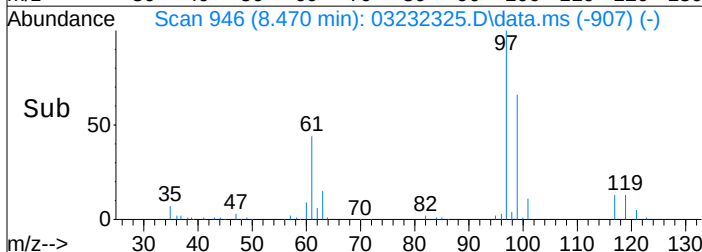
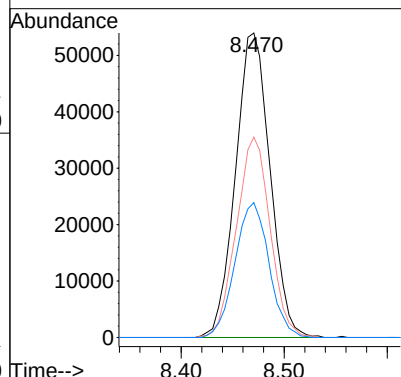
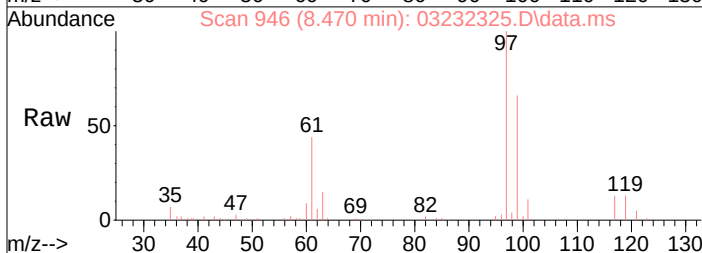
#34
 Tetrahydrofuran (THF)
 Concen: 0.29 ng
 RT: 7.86 min Scan# 838
 Delta R.T. 0.006 min
 Lab File: 03232325.D
 Acq: 23 Mar 2023 20:37

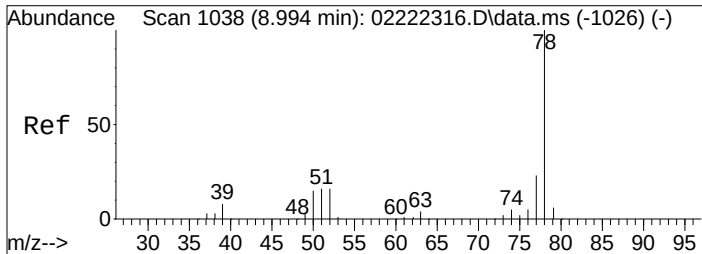
Tgt Ion:	72	Resp:	3526
Ion Ratio	Lower	Upper	
72	100		
71	102.3	79.8	119.8
42	277.1	199.0	239.0#



#38
 1,1,1-Trichloroethane
 Concen: 4.00 ng
 RT: 8.47 min Scan# 946
 Delta R.T. -0.028 min
 Lab File: 03232325.D
 Acq: 23 Mar 2023 20:37

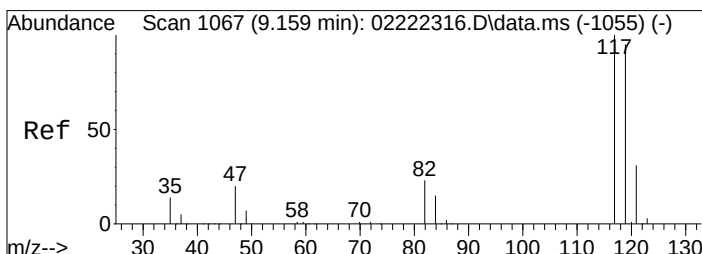
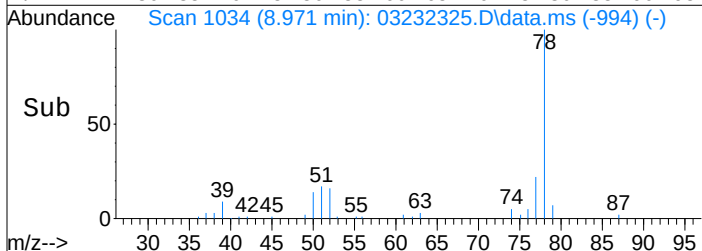
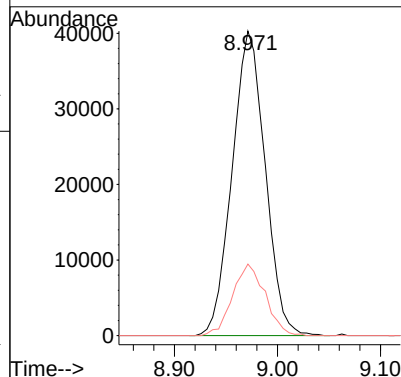
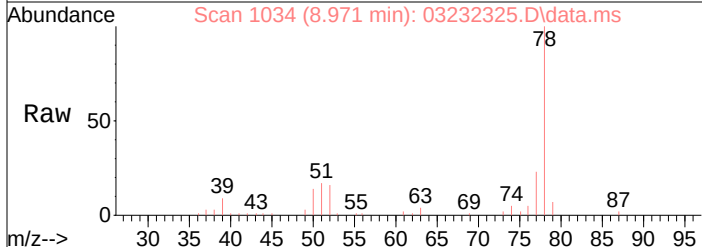
Tgt Ion:	97	Resp:	125959
Ion Ratio	Lower	Upper	
97	100		
99	64.3	44.9	84.9
61	43.6	23.5	63.5





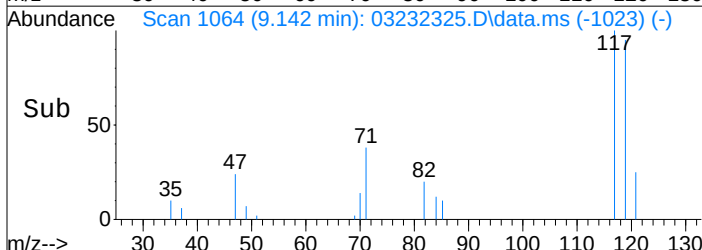
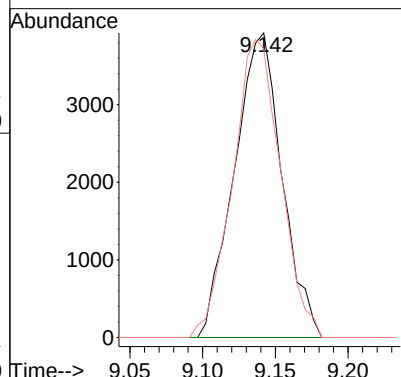
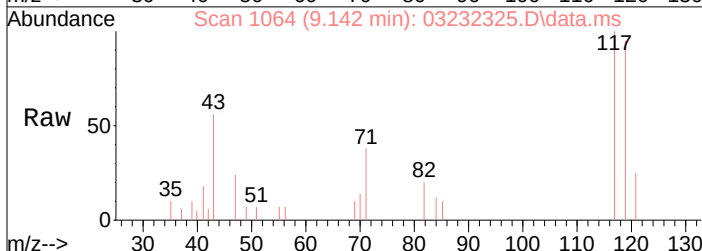
#41
Benzene
Concen: 1.21 ng
RT: 8.97 min Scan# 1034
Delta R.T. -0.023 min
Lab File: 03232325.D
Acq: 23 Mar 2023 20:37

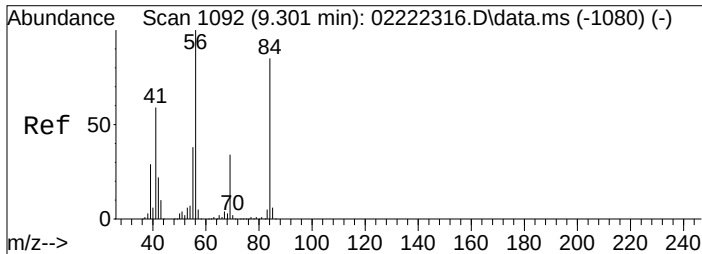
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	89776		
77	23.2	3.7	43.7	



#42
Carbon Tetrachloride
Concen: 0.32 ng
RT: 9.14 min Scan# 1064
Delta R.T. -0.017 min
Lab File: 03232325.D
Acq: 23 Mar 2023 20:37

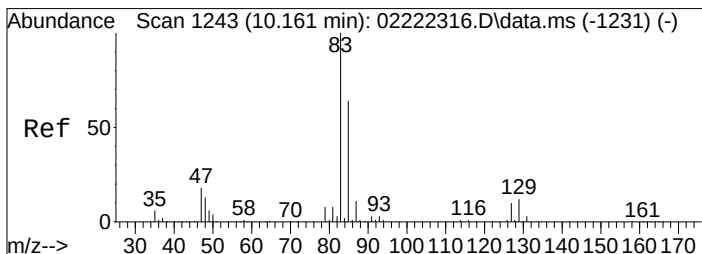
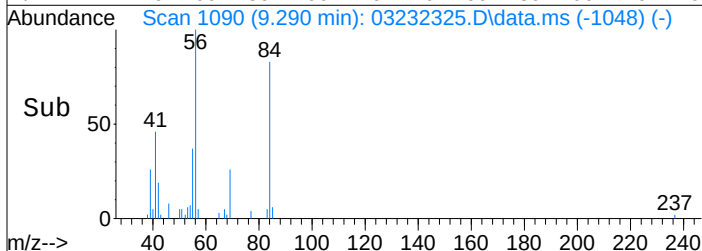
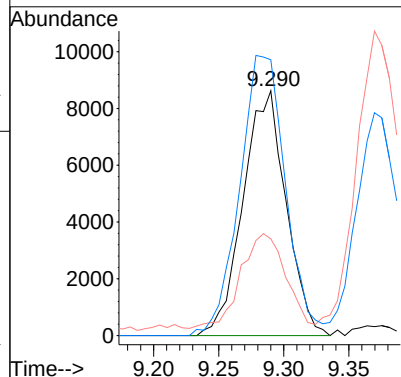
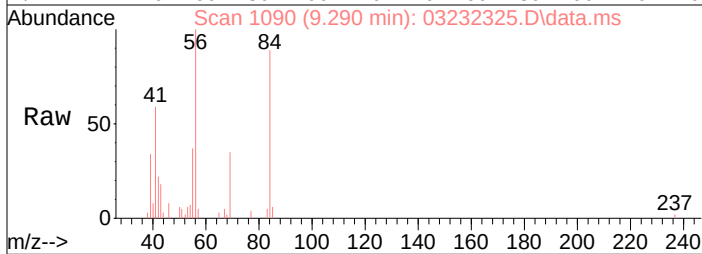
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	8930		
119	98.7	75.7	115.7	





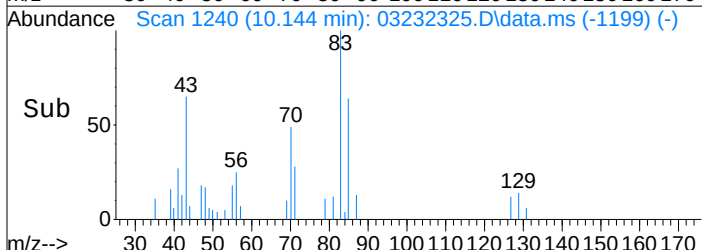
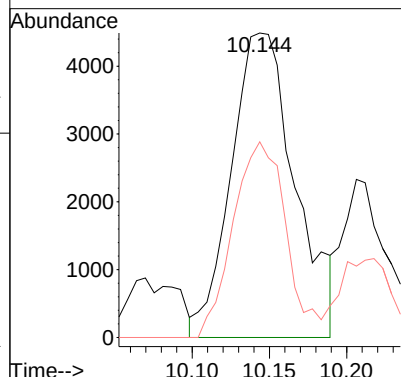
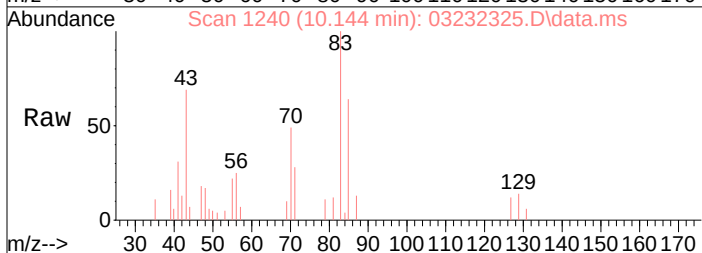
#43
Cyclohexane
Concen: 0.73 ng
RT: 9.29 min Scan# 1090
Delta R.T. -0.011 min
Lab File: 03232325.D
Acq: 23 Mar 2023 20:37

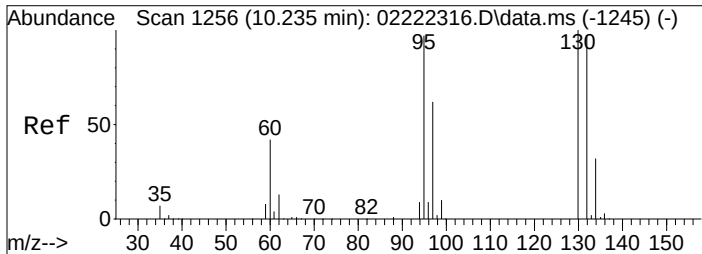
Tgt Ion: 84 Resp: 19842
Ion Ratio Lower Upper
84 100
69 40.9 20.0 60.0
56 121.8 98.5 138.5



#46
Bromodichloromethane
Concen: 0.47 ng
RT: 10.14 min Scan# 1240
Delta R.T. -0.017 min
Lab File: 03232325.D
Acq: 23 Mar 2023 20:37

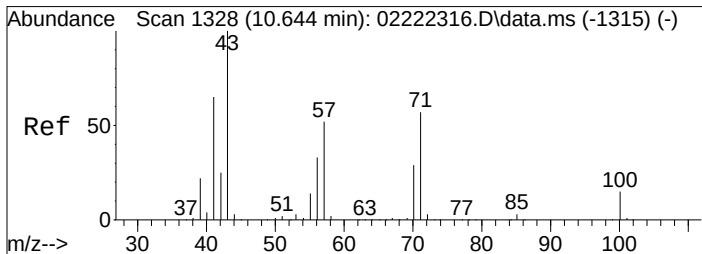
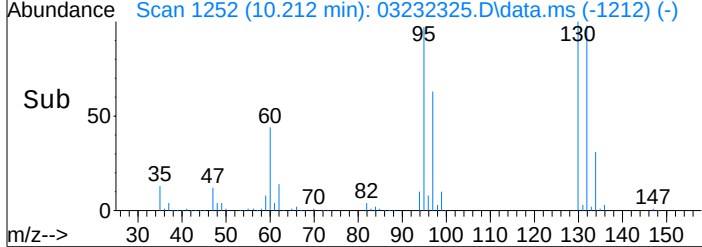
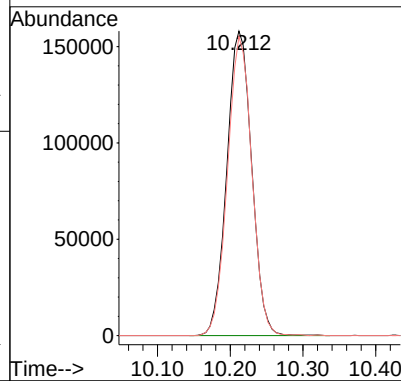
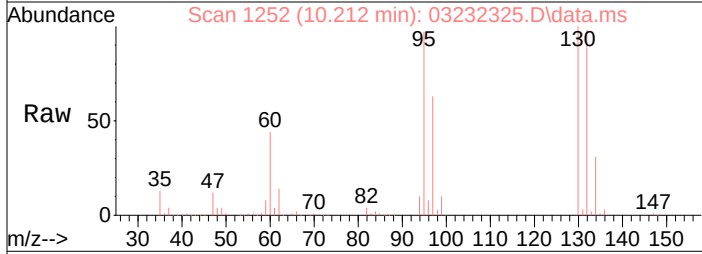
Tgt Ion: 83 Resp: 12934
Ion Ratio Lower Upper
83 100
85 52.9 44.0 84.0





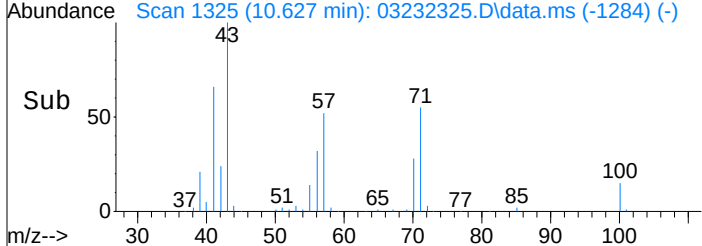
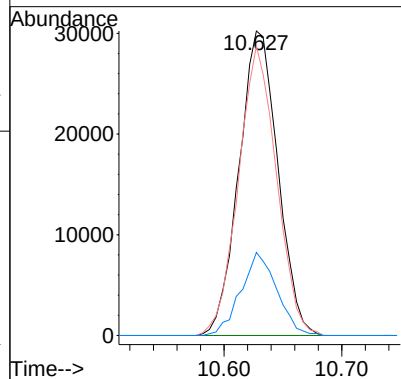
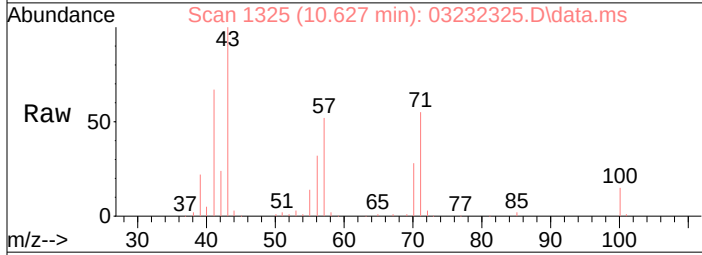
#47
 Trichloroethene
 Concen: 17.34 ng
 RT: 10.21 min Scan# 1252
 Delta R.T. -0.023 min
 Lab File: 03232325.D
 Acq: 23 Mar 2023 20:37

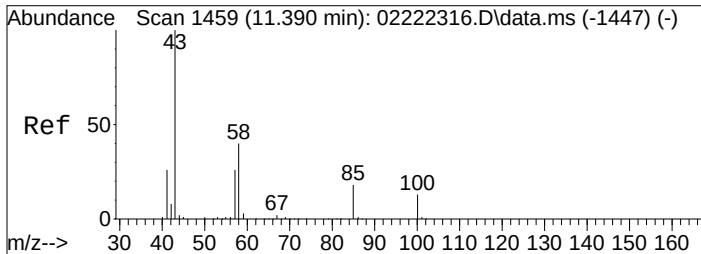
Tgt Ion: 130 Resp: 375734
 Ion Ratio Lower Upper
 130 100
 132 96.1 76.3 116.3



#51
 n-Heptane
 Concen: 3.88 ng
 RT: 10.63 min Scan# 1325
 Delta R.T. -0.017 min
 Lab File: 03232325.D
 Acq: 23 Mar 2023 20:37

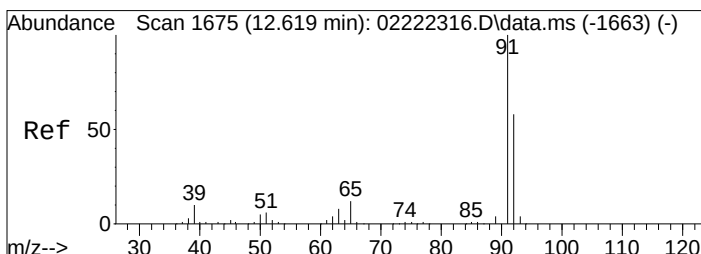
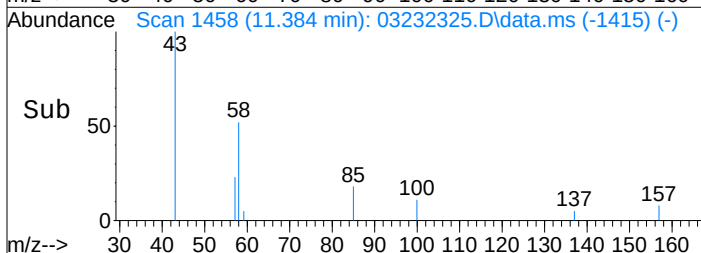
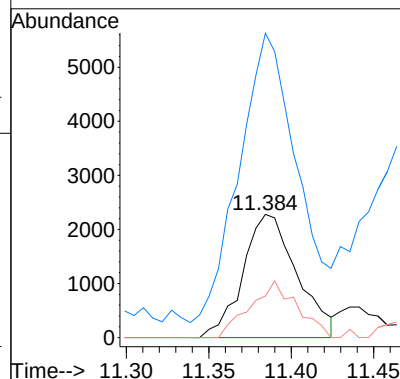
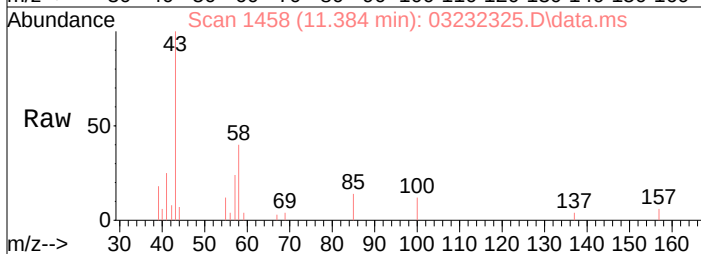
Tgt Ion: 71 Resp: 69543
 Ion Ratio Lower Upper
 71 100
 57 92.7 71.7 111.7
 100 25.3 5.8 45.8





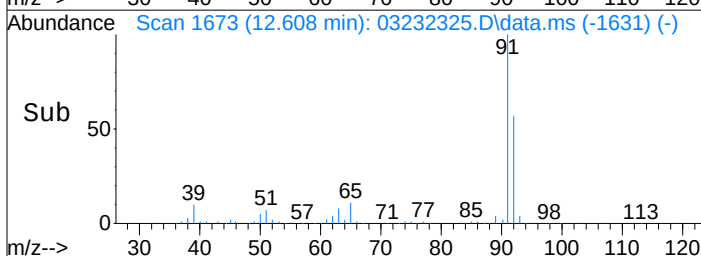
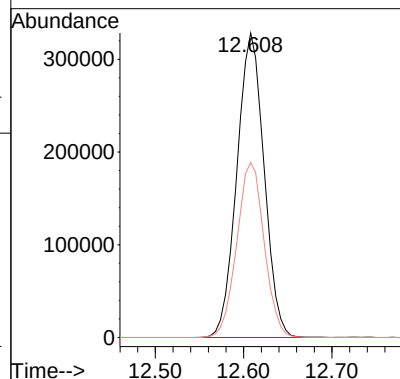
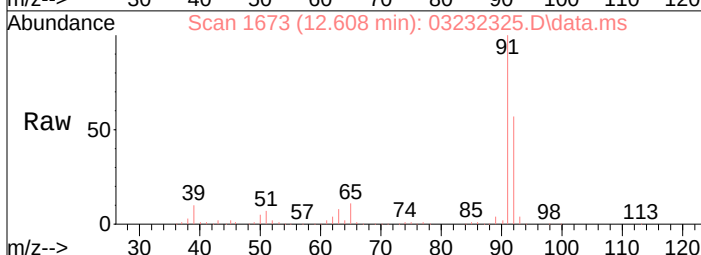
#53
 4-Methyl-2-pentanone
 Concen: 0.33 ng
 RT: 11.38 min Scan# 1458
 Delta R.T. -0.006 min
 Lab File: 03232325.D
 Acq: 23 Mar 2023 20:37

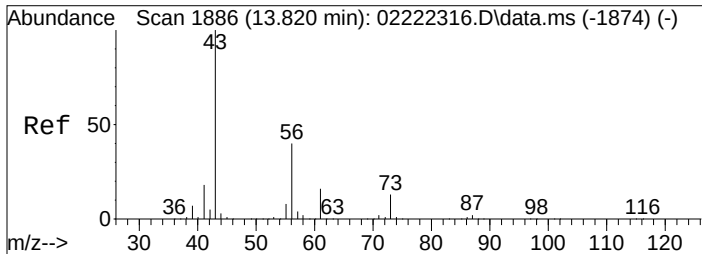
Tgt Ion: 58 Resp: 5213
 Ion Ratio Lower Upper
 58 100
 85 39.6 38.6 58.0
 43 269.6 202.2 303.2



#58
 Toluene
 Concen: 7.86 ng
 RT: 12.61 min Scan# 1673
 Delta R.T. -0.011 min
 Lab File: 03232325.D
 Acq: 23 Mar 2023 20:37

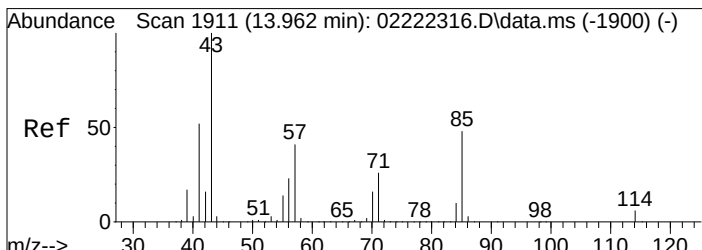
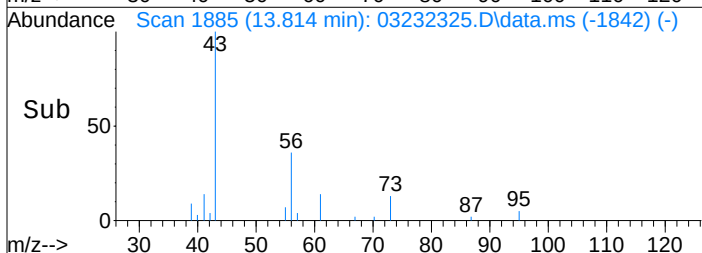
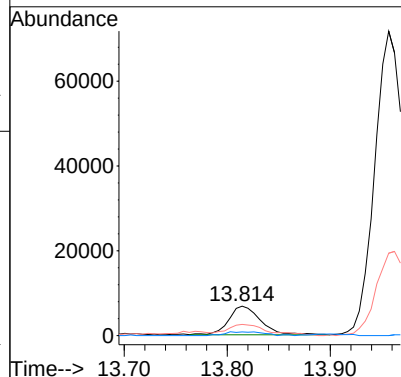
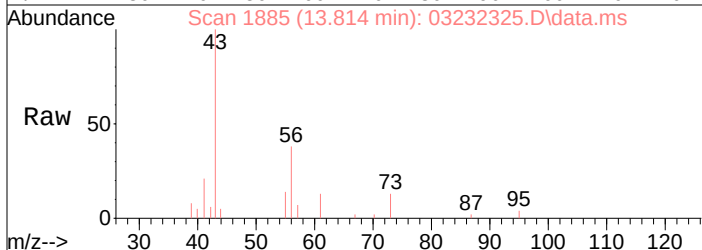
Tgt Ion: 91 Resp: 702480
 Ion Ratio Lower Upper
 91 100
 92 57.9 38.0 78.0





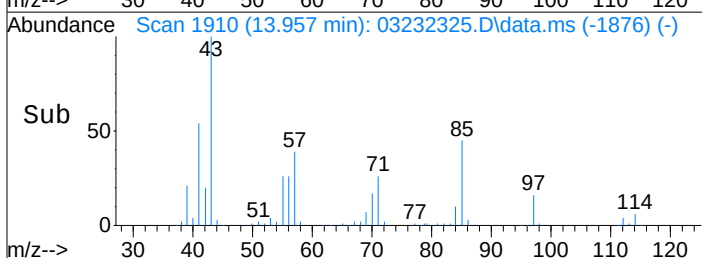
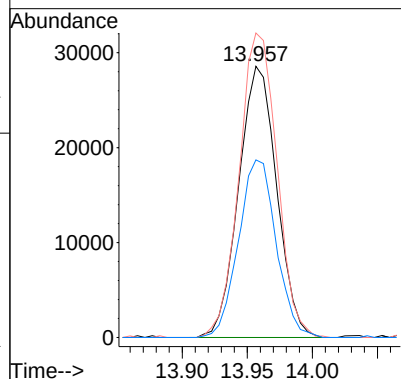
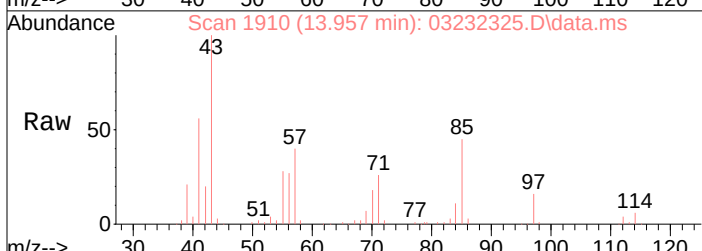
#62
 n-Butyl Acetate
 Concen: 0.29 ng
 RT: 13.81 min Scan# 1885
 Delta R.T. -0.006 min
 Lab File: 03232325.D
 Acq: 23 Mar 2023 20:37

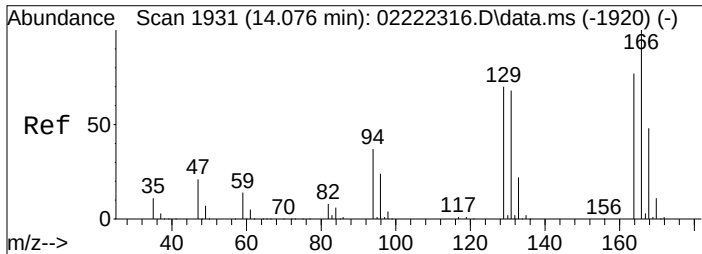
Tgt Ion:	43	Resp:	14509
Ion Ratio		Lower	Upper
43	100		
56	49.8	20.0	60.0
73	16.4	0.0	33.2



#63
 n-Octane
 Concen: 3.31 ng
 RT: 13.96 min Scan# 1910
 Delta R.T. -0.006 min
 Lab File: 03232325.D
 Acq: 23 Mar 2023 20:37

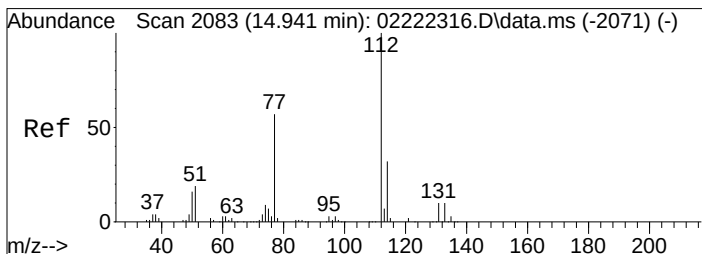
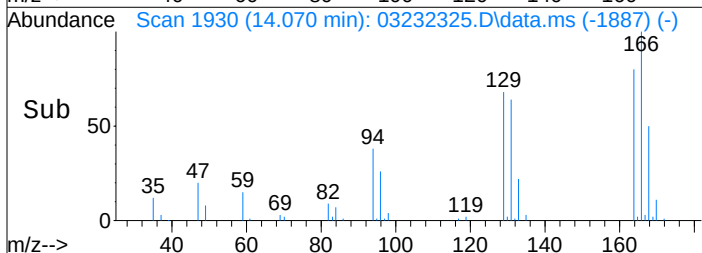
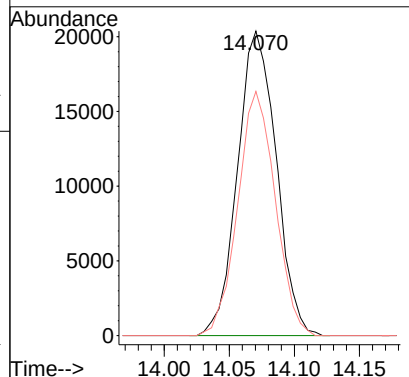
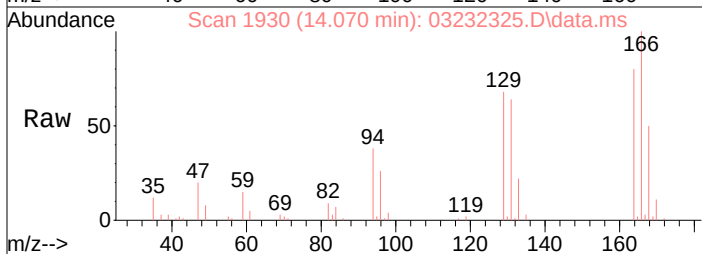
Tgt Ion:	57	Resp:	58128
Ion Ratio		Lower	Upper
57	100		
85	111.8	94.1	141.1
71	64.8	52.6	79.0





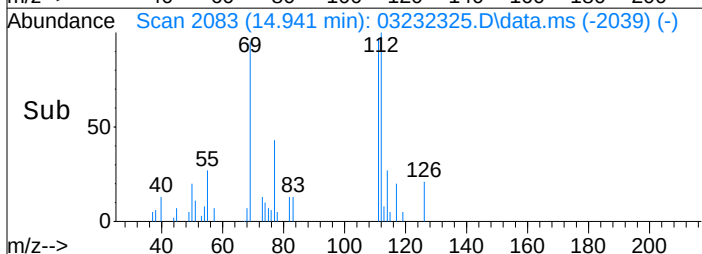
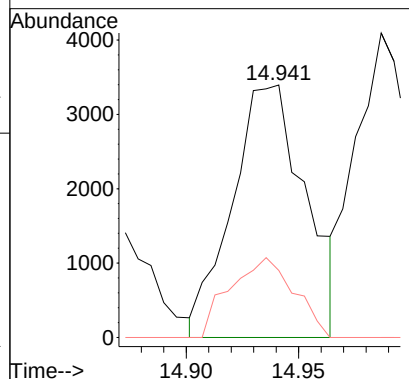
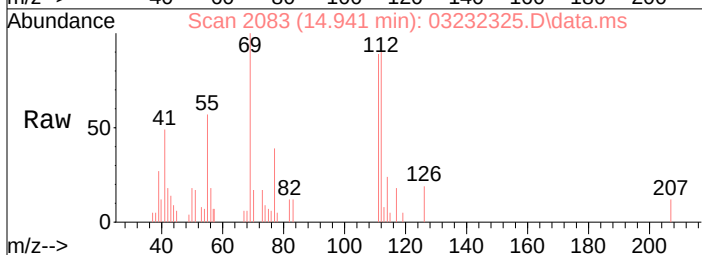
#64
 Tetrachloroethene
 Concen: 1.55 ng
 RT: 14.07 min Scan# 1930
 Delta R.T. -0.006 min
 Lab File: 03232325.D
 Acq: 23 Mar 2023 20:37

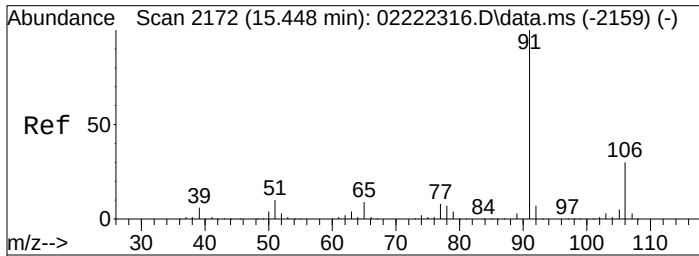
Tgt Ion:	166	Resp:	42067
Ion Ratio		Lower	Upper
166	100		
164	77.8	57.3	97.3



#65
 Chlorobenzene
 Concen: 0.13 ng
 RT: 14.94 min Scan# 2083
 Delta R.T. 0.000 min
 Lab File: 03232325.D
 Acq: 23 Mar 2023 20:37

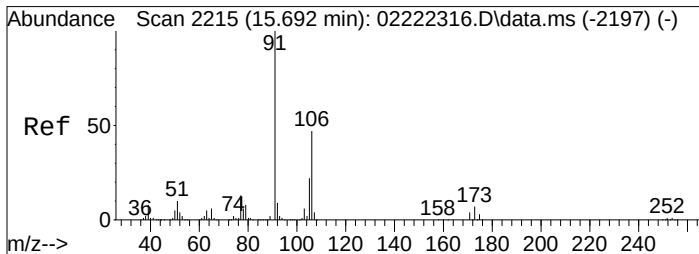
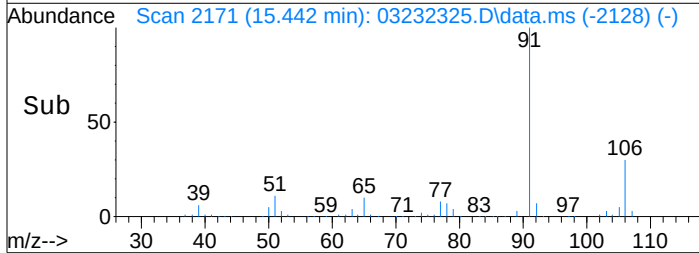
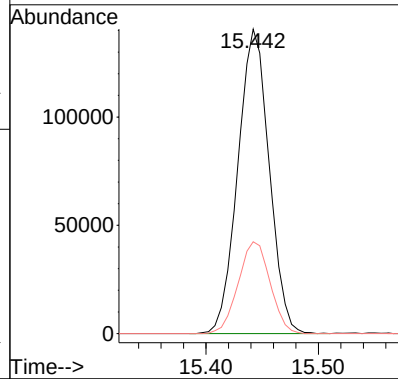
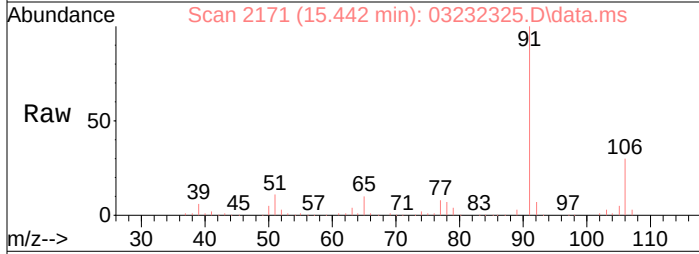
Tgt Ion:	112	Resp:	7706
Ion Ratio		Lower	Upper
112	100		
114	27.7	12.1	52.1





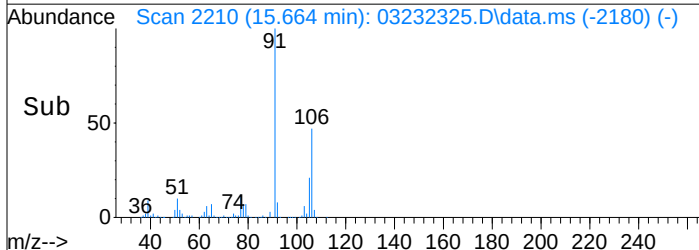
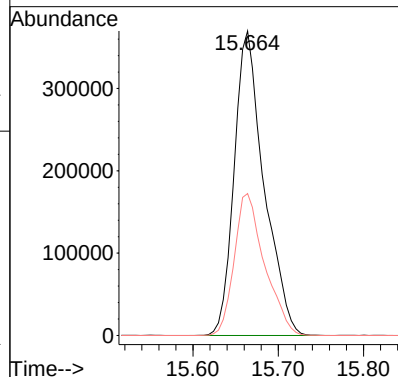
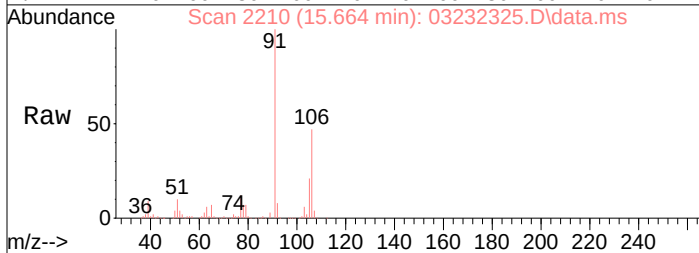
#66
Ethylbenzene
Concen: 2.56 ng
RT: 15.44 min Scan# 2171
Delta R.T. -0.006 min
Lab File: 03232325.D
Acq: 23 Mar 2023 20:37

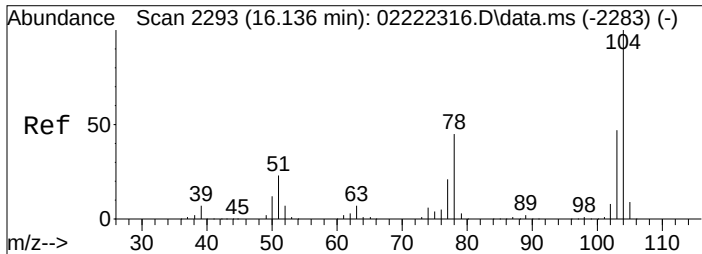
Tgt Ion: 91 Resp: 272821
Ion Ratio Lower Upper
91 100
106 30.6 10.4 50.4



#67
m- & p-Xylenes
Concen: 10.45 ng
RT: 15.66 min Scan# 2210
Delta R.T. -0.028 min
Lab File: 03232325.D
Acq: 23 Mar 2023 20:37

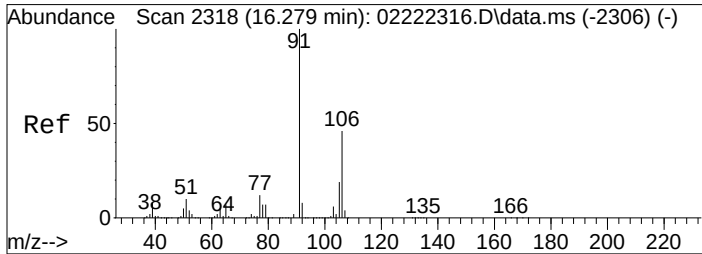
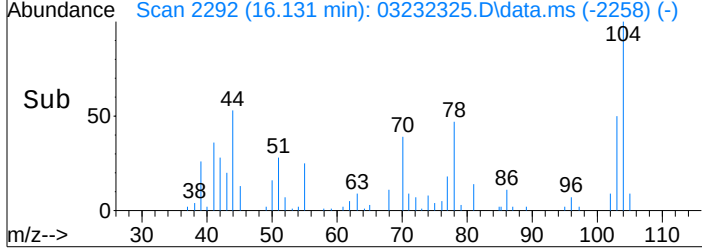
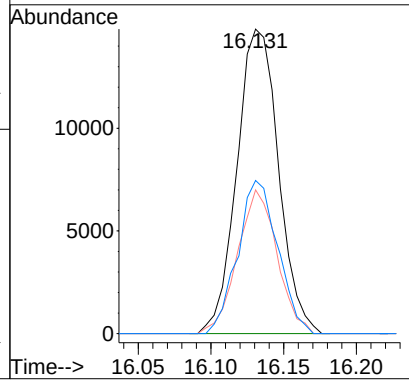
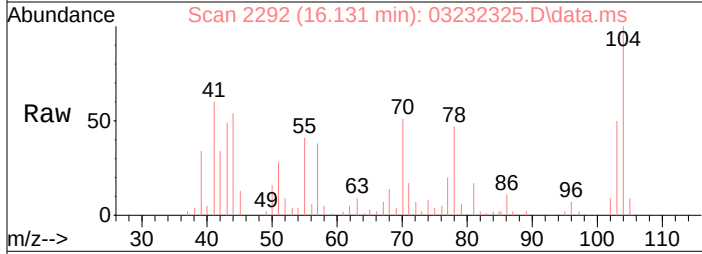
Tgt Ion: 91 Resp: 897195
Ion Ratio Lower Upper
91 100
106 47.5 26.2 66.2





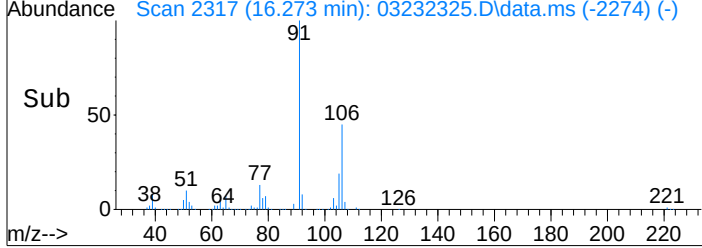
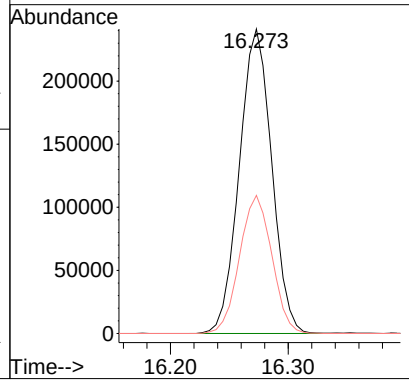
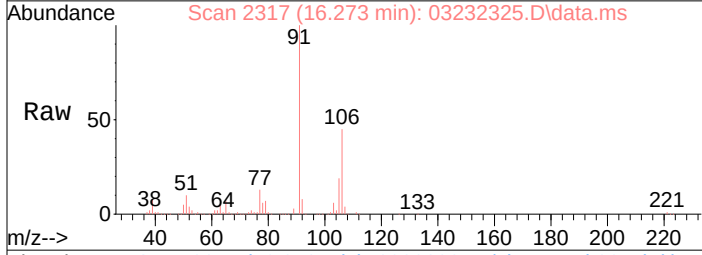
#69
Styrene
Concen: 0.50 ng
RT: 16.13 min Scan# 2292
Delta R.T. -0.006 min
Lab File: 03232325.D
Acq: 23 Mar 2023 20:37

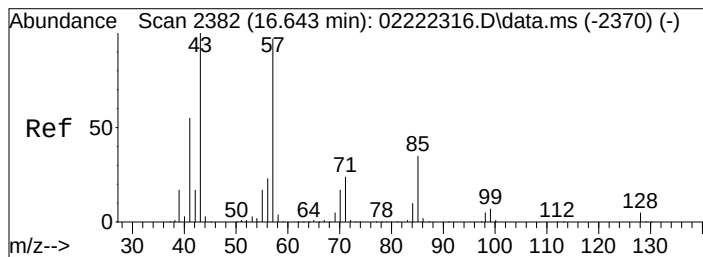
Tgt Ion:	104	Resp:	29512
Ion Ratio		Lower	Upper
104	100		
78	44.9	24.7	64.7
103	48.5	27.8	67.8



#70
o-Xylene
Concen: 5.62 ng
RT: 16.27 min Scan# 2317
Delta R.T. -0.006 min
Lab File: 03232325.D
Acq: 23 Mar 2023 20:37

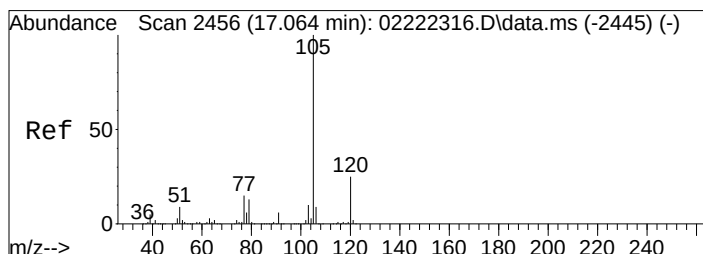
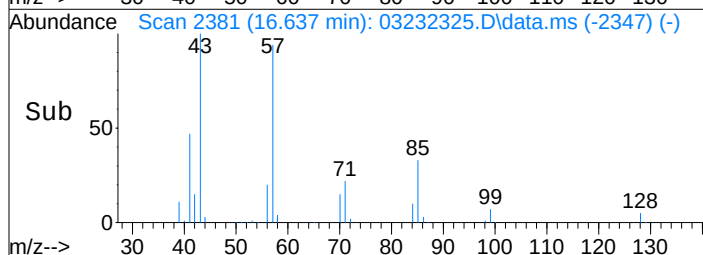
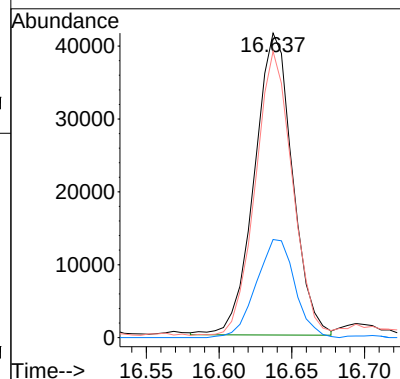
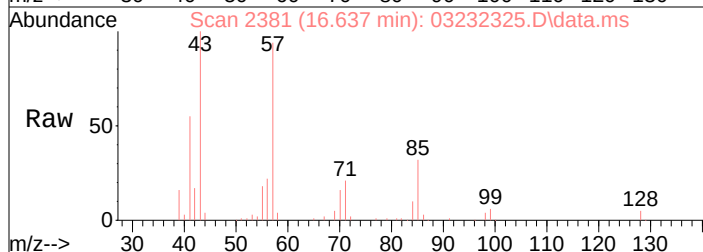
Tgt Ion:	91	Resp:	461165
Ion Ratio		Lower	Upper
91	100		
106	45.2	25.4	65.4





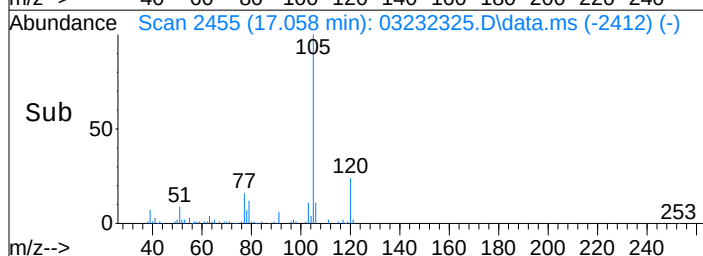
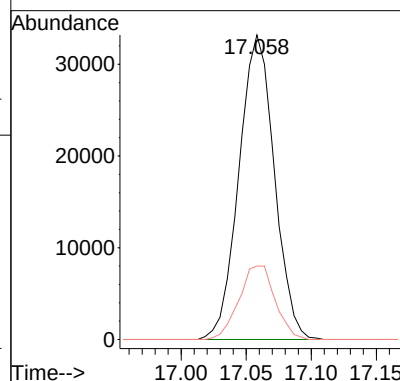
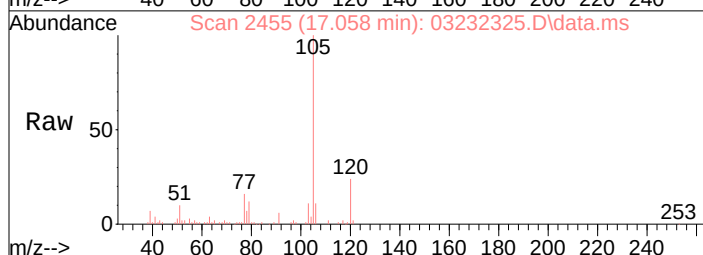
#71
n-Nonane
Concen: 1.89 ng
RT: 16.64 min Scan# 2381
Delta R.T. -0.006 min
Lab File: 03232325.D
Acq: 23 Mar 2023 20:37

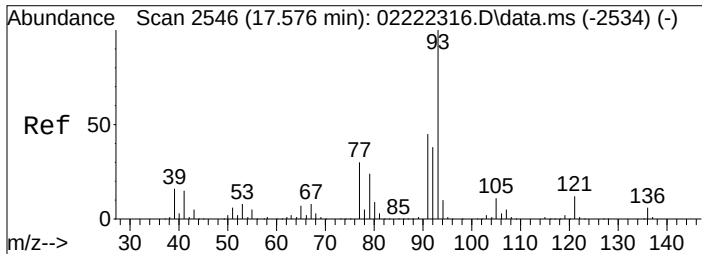
Tgt Ion: 43 Resp: 75178
Ion Ratio Lower Upper
43 100
57 91.5 74.2 114.2
85 33.0 14.2 54.2



#74
Cumene
Concen: 0.63 ng
RT: 17.06 min Scan# 2455
Delta R.T. -0.006 min
Lab File: 03232325.D
Acq: 23 Mar 2023 20:37

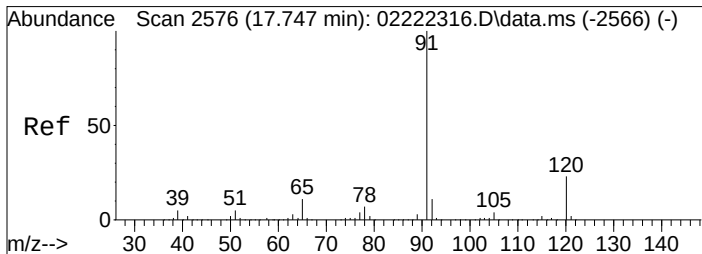
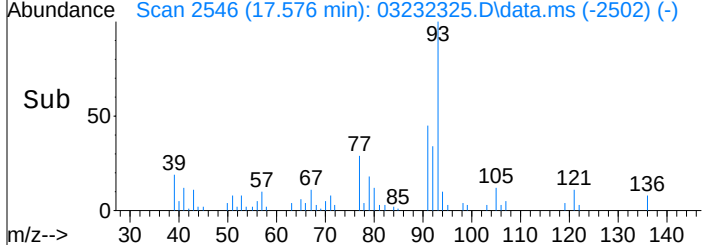
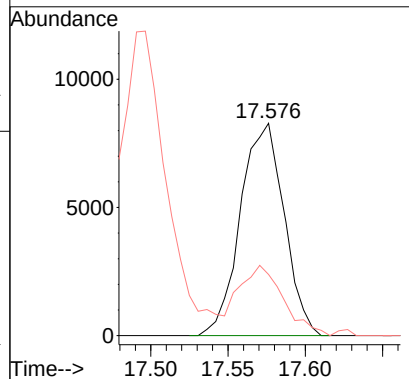
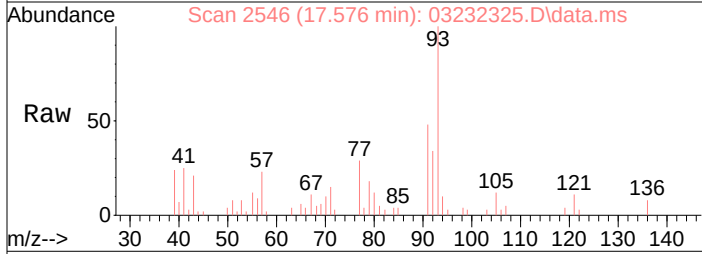
Tgt Ion: 105 Resp: 62827
Ion Ratio Lower Upper
105 100
120 24.7 5.2 45.2





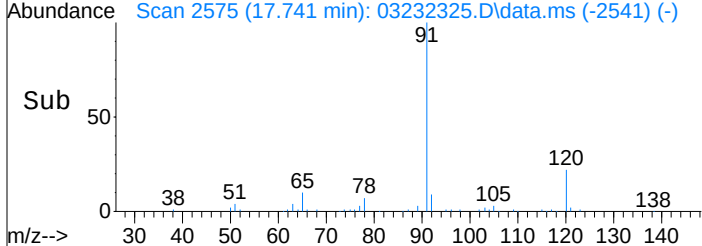
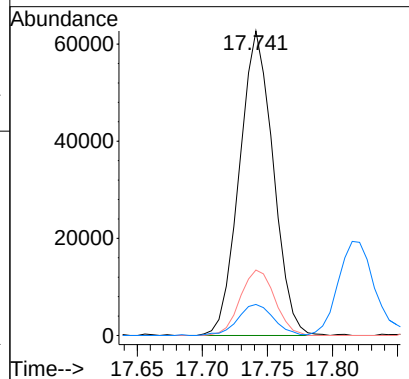
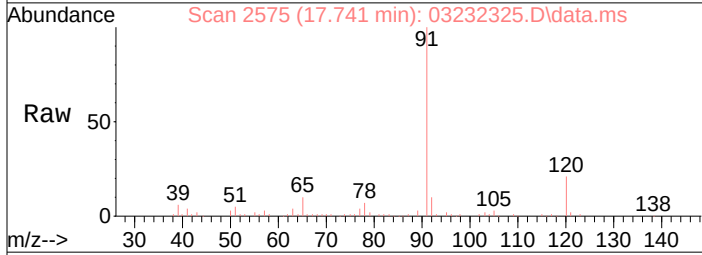
#75
 alpha-Pinene
 Concen: 0.35 ng
 RT: 17.58 min Scan# 2546
 Delta R.T. 0.000 min
 Lab File: 03232325.D
 Acq: 23 Mar 2023 20:37

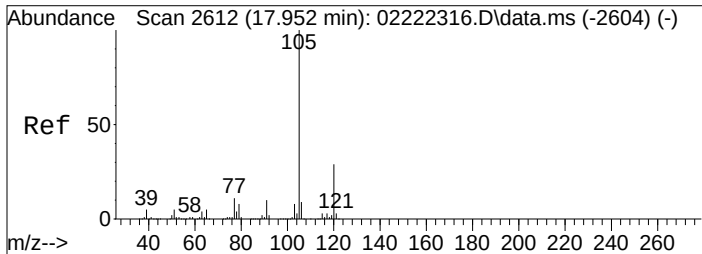
Tgt Ion:	93	Resp:	16340
Ion Ratio	Lower	Upper	
93	100		
77	33.4	11.1	51.1



#76
 n-Propylbenzene
 Concen: 0.94 ng
 RT: 17.74 min Scan# 2575
 Delta R.T. -0.006 min
 Lab File: 03232325.D
 Acq: 23 Mar 2023 20:37

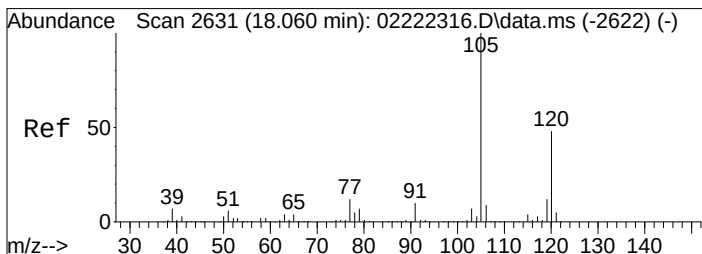
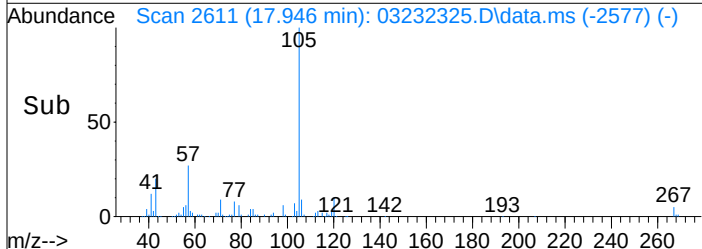
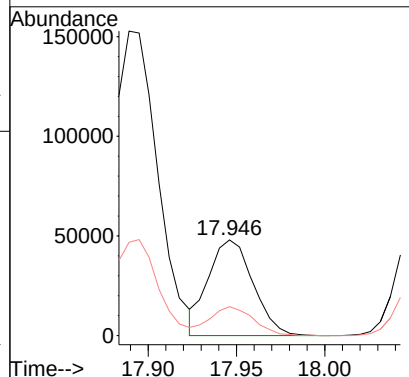
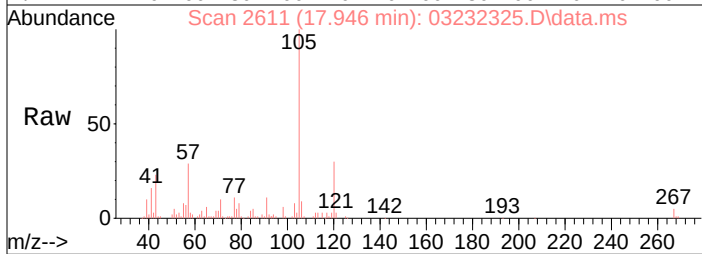
Tgt Ion:	91	Resp:	113039
Ion Ratio	Lower	Upper	
91	100		
120	22.0	2.7	42.7
65	10.9	0.0	30.7





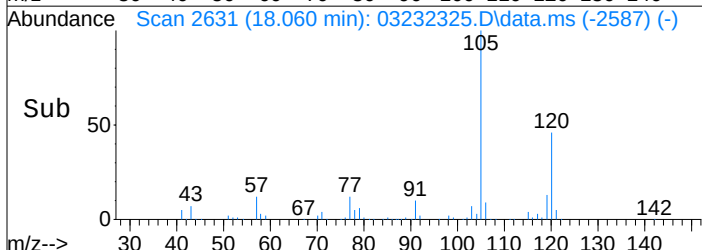
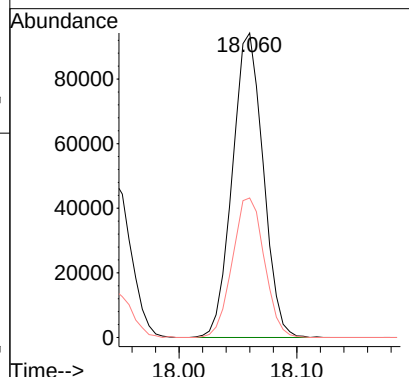
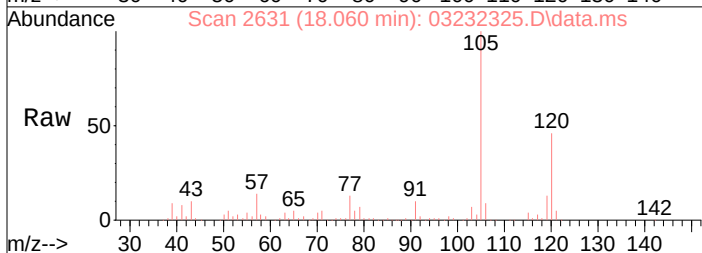
#78
 4-Ethyltoluene
 Concen: 0.88 ng
 RT: 17.95 min Scan# 2611
 Delta R.T. -0.006 min
 Lab File: 03232325.D
 Acq: 23 Mar 2023 20:37

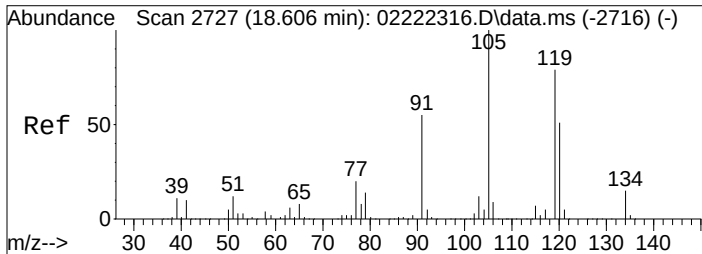
Tgt Ion:	105	Resp:	84327
Ion Ratio		Lower	Upper
105	100		
120	29.7	9.1	49.1



#79
 1,3,5-Trimethylbenzene
 Concen: 2.02 ng
 RT: 18.06 min Scan# 2631
 Delta R.T. 0.000 min
 Lab File: 03232325.D
 Acq: 23 Mar 2023 20:37

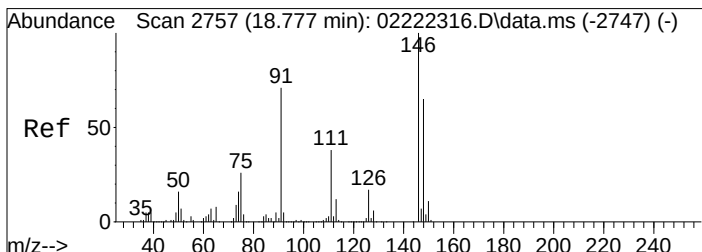
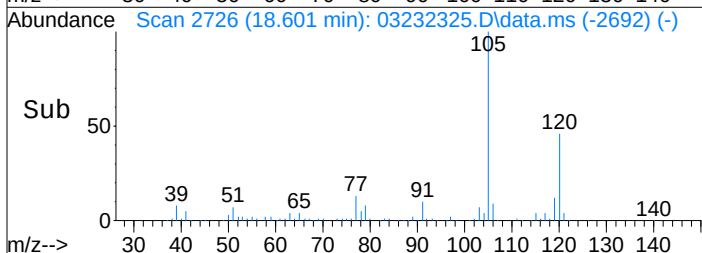
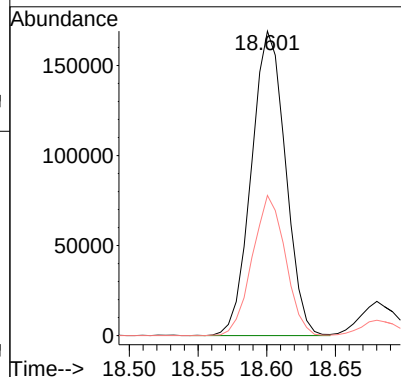
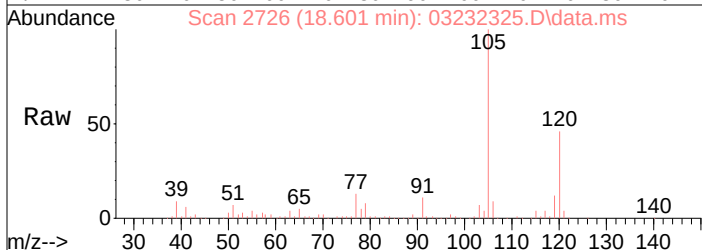
Tgt Ion:	105	Resp:	171366
Ion Ratio		Lower	Upper
105	100		
120	47.6	28.4	68.4





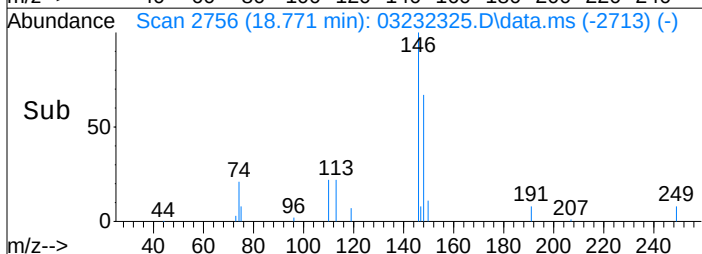
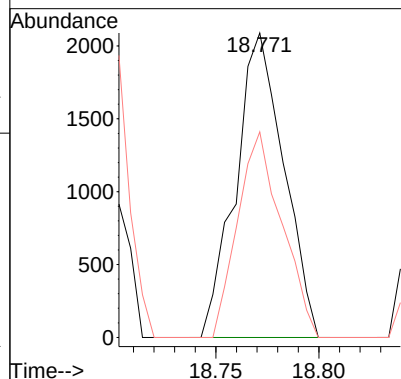
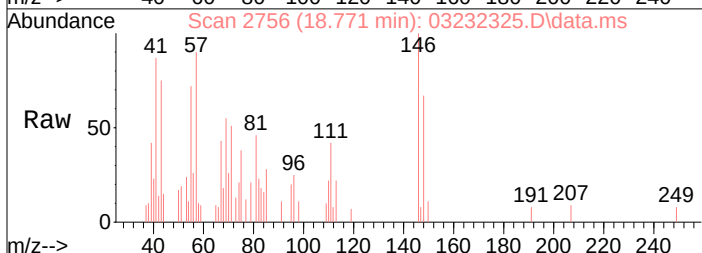
#82
 1,2,4-Trimethylbenzene
 Concen: 3.50 ng
 RT: 18.60 min Scan# 2726
 Delta R.T. -0.006 min
 Lab File: 03232325.D
 Acq: 23 Mar 2023 20:37

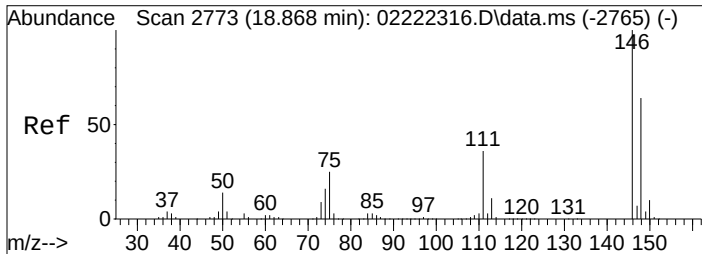
Tgt Ion	105	120	Resp	292085
Ion Ratio	100	44.7	32.8	72.8



#85
 1,3-Dichlorobenzene
 Concen: 0.07 ng
 RT: 18.77 min Scan# 2756
 Delta R.T. -0.006 min
 Lab File: 03232325.D
 Acq: 23 Mar 2023 20:37

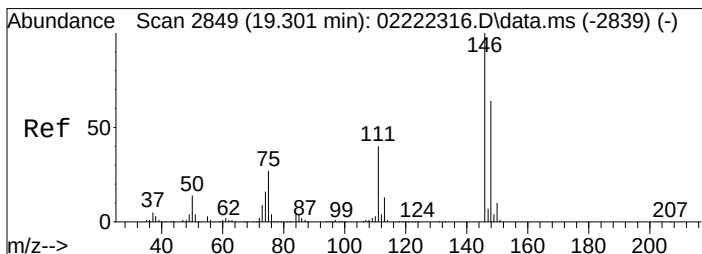
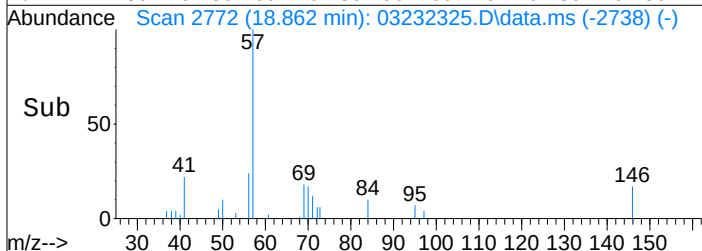
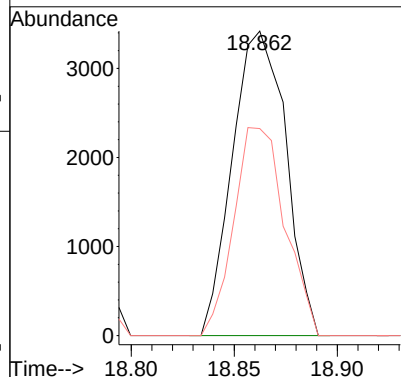
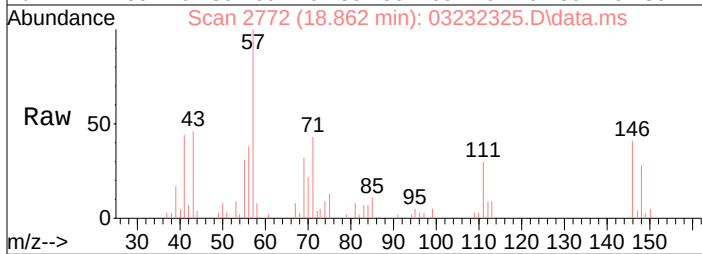
Tgt Ion	146	148	Resp	3399
Ion Ratio	100	61.9	44.4	84.4





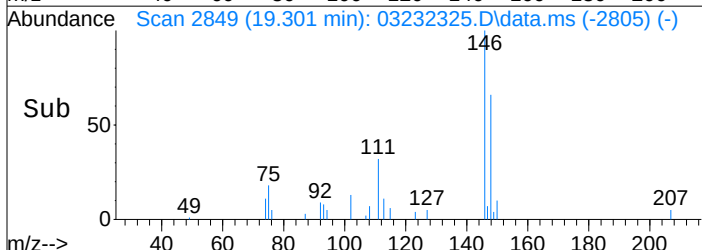
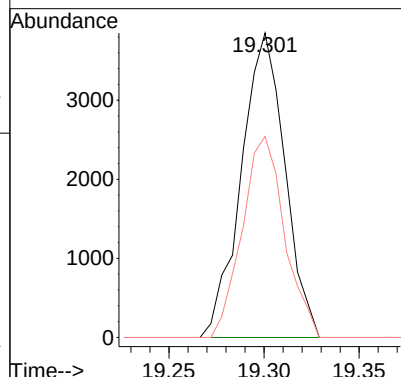
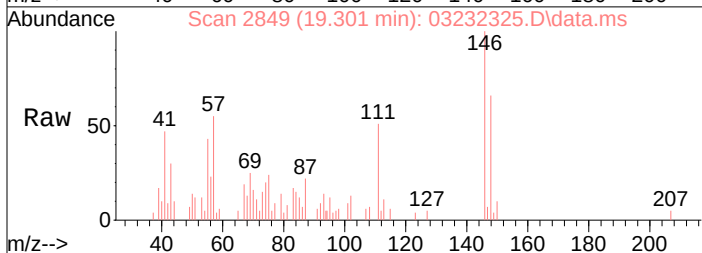
#86
 1,4-Dichlorobenzene
 Concen: 0.12 ng
 RT: 18.86 min Scan# 2772
 Delta R.T. -0.006 min
 Lab File: 03232325.D
 Acq: 23 Mar 2023 20:37

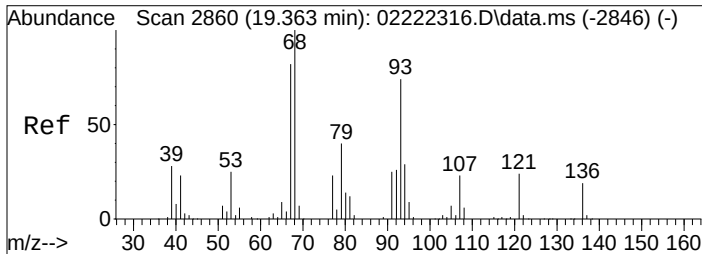
Tgt Ion	Ratio	Resp	Lower	Upper
146	100	6169		
148	65.4	44.7	84.7	



#90
 1,2-Dichlorobenzene
 Concen: 0.12 ng
 RT: 19.30 min Scan# 2849
 Delta R.T. 0.000 min
 Lab File: 03232325.D
 Acq: 23 Mar 2023 20:37

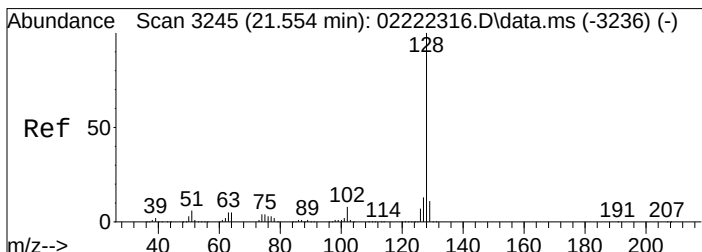
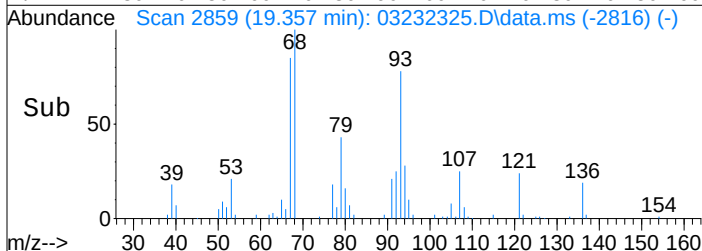
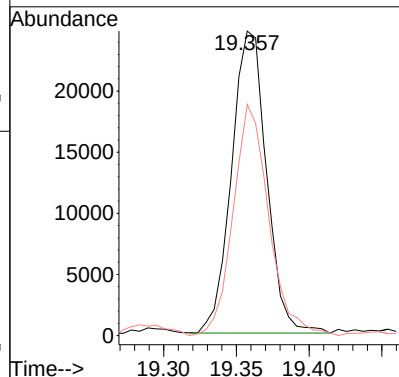
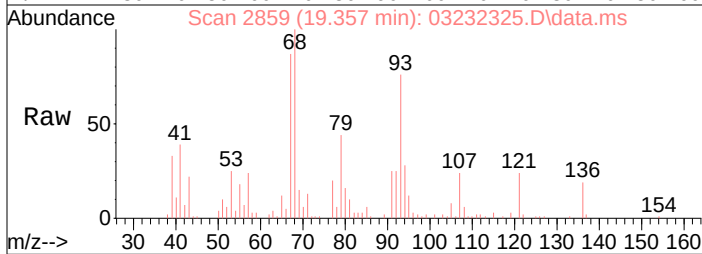
Tgt Ion	Ratio	Resp	Lower	Upper
146	100	6142		
148	64.0	44.4	84.4	





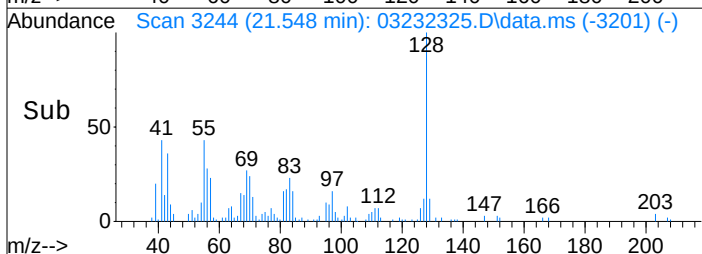
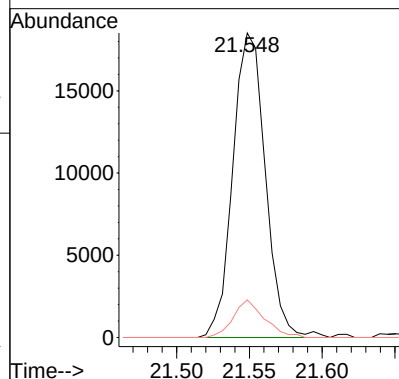
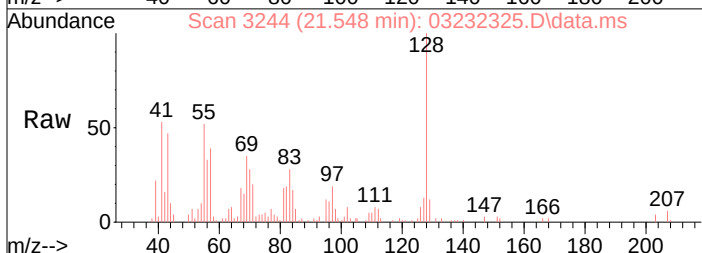
#91
 d-Limonene
 Concen: 1.46 ng
 RT: 19.36 min Scan# 2859
 Delta R.T. -0.006 min
 Lab File: 03232325.D
 Acq: 23 Mar 2023 20:37

Tgt Ion:	68	Resp:	41350
Ion Ratio		Lower	Upper
68	100		
93	78.1	54.8	94.8



#95
 Naphthalene
 Concen: 0.32 ng
 RT: 21.55 min Scan# 3244
 Delta R.T. -0.006 min
 Lab File: 03232325.D
 Acq: 23 Mar 2023 20:37

Tgt Ion:	128	Resp:	28813
Ion Ratio		Lower	Upper
128	100		
129	11.9	0.0	30.9



Data File : I:\MS13\DATA\2023_03\23\03232325.D
 Acq On : 23 Mar 2023 20:37
 Sample : P2301250-001 (1000mL)
 Misc : S35-01202301

Vial: 8
 Operator: TZ
 Inst : MS13

TZ 3/27/23

Quant Time: Mar 27 14:41:08 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.32	130	218751	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	9.38	114	950901	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	14.88	54	182745	12.500	ng	0.00

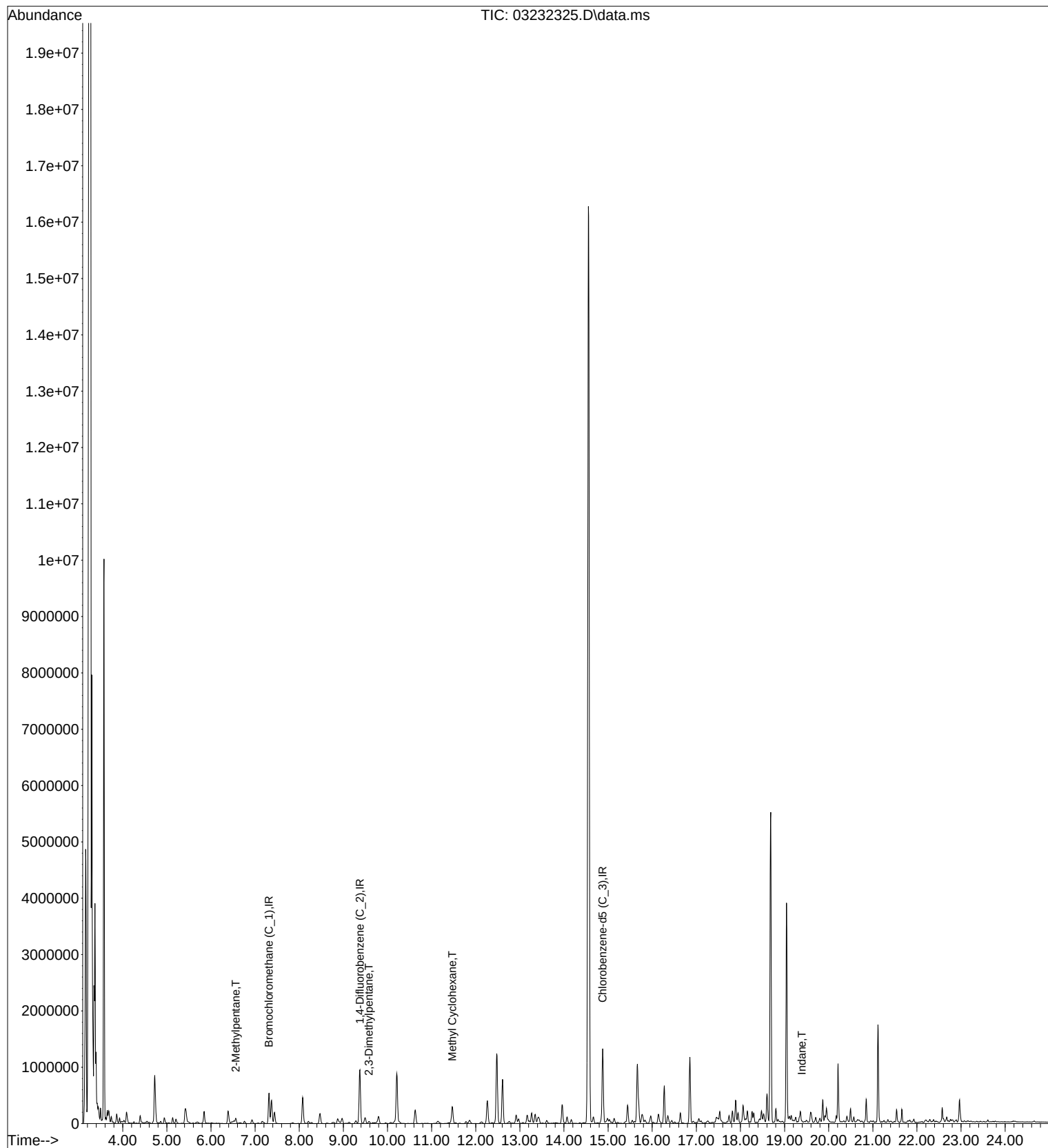
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	0.00	85	0	N.D.	d	
3) 1,1,1,2-Tetrafluoroeth...	0.00	83	0	N.D.	d	
4) 1,1-Difluoroethane	0.00	65	0	N.D.	d	
5) Chlorodifluoromethane ...	0.00	67	0	N.D.	d	
6) 1-Chloro-1,1-Difluoroe...	3.56	65	57	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	0.00	43	0	N.D.	d	
12) 2-Methylpentane	6.56	71	20529	1.343	ng	# 60
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	9.15	84	1972	N.D.		
17) 2,3-Dimethylpentane	9.58	56	20182	0.720	ng	91
18) Dibromomethane	9.86	174	117	N.D.		
20) Methyl Cyclohexane	11.47	55	131192	4.313	ng	88
21) 1,3-Dichloropropane	12.61	76	2884	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	15.23	91	770	N.D.		
24) 1,2,3-Trichloropropane	0.00	75	0	N.D.	d	
25) Bromobenzene	17.14	77	63	N.D.		
26) 2-Chlorotoluene	0.00	91	0	N.D.	d	
27) 4-Chlorotoluene	0.00	91	0	N.D.	d	
28) Indane	19.39	117	10111	0.110	ng	95
29) Indene	19.50	115	1928	N.D.		
30) 1,2,4,5-Tetramethylben...	20.69	119	7179	N.D.		
31) 1,2,3,4-Tetramethylben...	20.69	119	7179	N.D.		
32) 1,2,3,5-Tetramethylben...	0.00	119	0	N.D.	d	
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\23\03232325.D
Acq On : 23 Mar 2023 20:37
Sample : P2301250-001 (1000mL)
Misc : S35-01202301

Vial: 8
Operator: TZ
Inst : MS13

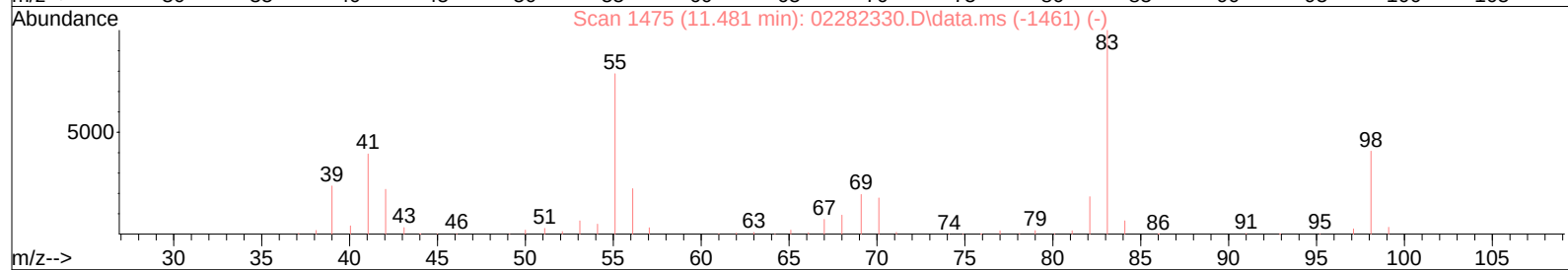
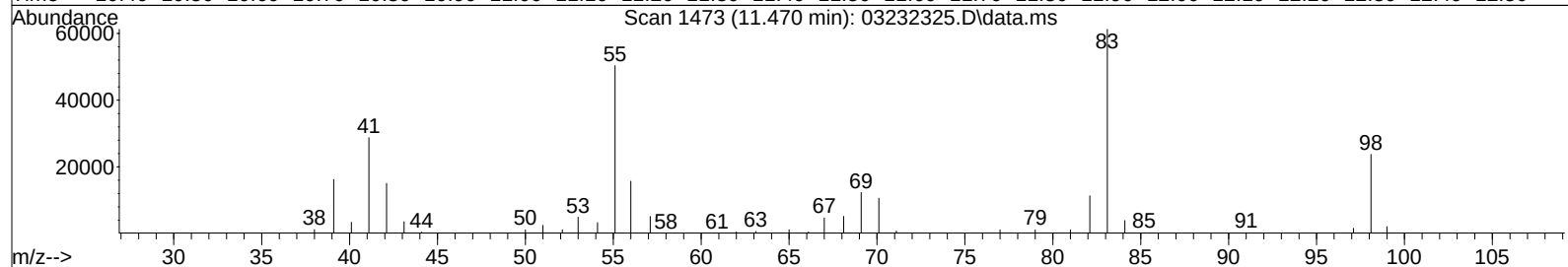
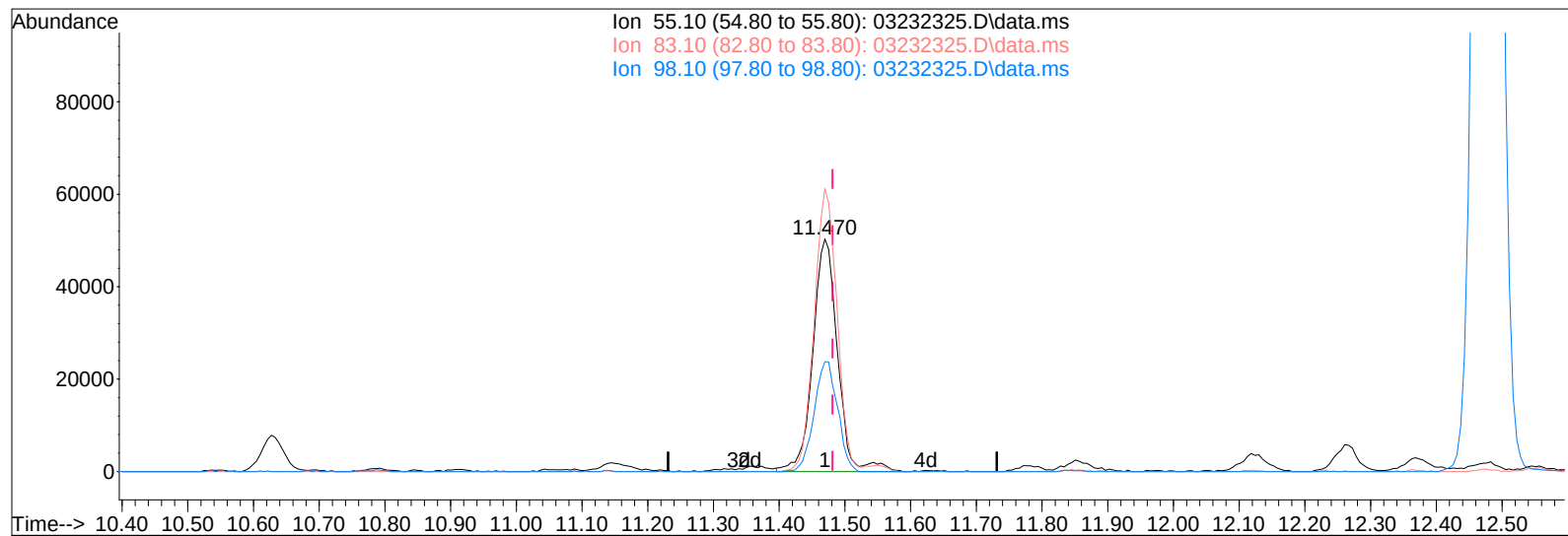
Quant Time: Mar 27 14:41:08 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\23\03232325.D
Acq On : 23 Mar 2023 20:37
Sample : P2301250-001 (1000mL)
Misc : S35-01202301

Vial: 8
Operator: TZ
Inst : MS13

Quant Time: Mar 27 14:40:05 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03232325.D\data.ms

(20) Methyl Cyclohexane (T)

11.470min (-0.011) 4.31ng

response 131192

Ion	Exp%	Act%
55.10	100	100
83.10	128.30	114.68
98.10	53.10	44.83
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG2-1

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02250

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/23/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.20 Final Pressure (psig): 3.75

Container Dilution Factor: 1.76

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.5	0.93	0.15	0.51	0.19	0.031	
74-87-3	Chloromethane	0.72	0.37	0.15	0.35	0.18	0.073	
75-01-4	Vinyl Chloride	0.16	0.19	0.10	0.063	0.076	0.039	J
74-83-9	Bromomethane	0.15	0.37	0.13	0.039	0.095	0.034	J
75-00-3	Chloroethane	ND	0.37	0.12	ND	0.14	0.044	
67-64-1	Acetone	240	9.3	2.1	100	3.9	0.89	
75-69-4	Trichlorofluoromethane	1.3	0.92	0.14	0.23	0.16	0.025	
75-35-4	1,1-Dichloroethene	ND	0.19	0.13	ND	0.049	0.033	
75-09-2	Methylene Chloride	5.3	0.93	0.26	1.5	0.27	0.076	
76-13-1	Trichlorotrifluoroethane	0.52	0.95	0.13	0.068	0.12	0.017	J
75-15-0	Carbon Disulfide	1.1	1.9	0.28	0.34	0.60	0.090	J
156-60-5	trans-1,2-Dichloroethene	ND	0.19	0.13	ND	0.049	0.033	
75-34-3	1,1-Dichloroethane	ND	0.19	0.14	ND	0.048	0.034	
1634-04-4	Methyl tert-Butyl Ether	ND	0.95	0.11	ND	0.26	0.031	
78-93-3	2-Butanone (MEK)	19	1.8	0.19	6.4	0.62	0.066	
156-59-2	cis-1,2-Dichloroethene	ND	0.19	0.13	ND	0.049	0.033	
67-66-3	Chloroform	0.91	0.19	0.12	0.19	0.040	0.026	
107-06-2	1,2-Dichloroethane	ND	0.19	0.10	ND	0.048	0.026	
71-55-6	1,1,1-Trichloroethane	5.6	0.19	0.12	1.0	0.035	0.021	
71-43-2	Benzene	1.1	0.19	0.14	0.36	0.061	0.042	
56-23-5	Carbon Tetrachloride	0.62	0.19	0.13	0.099	0.031	0.021	
110-82-7	Cyclohexane	0.91	1.8	0.26	0.27	0.54	0.077	J
78-87-5	1,2-Dichloropropane	ND	0.19	0.12	ND	0.042	0.025	
75-27-4	Bromodichloromethane	ND	0.19	0.14	ND	0.029	0.020	
79-01-6	Trichloroethene	5.1	0.19	0.13	0.96	0.036	0.024	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG2-1

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02250

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/23/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.20 Final Pressure (psig): 3.75

Container Dilution Factor: 1.76

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.95	0.15	ND	0.21	0.032	
108-10-1	4-Methyl-2-pentanone	8.6	1.9	0.13	2.1	0.47	0.031	
10061-02-6	trans-1,3-Dichloropropene	ND	0.90	0.19	ND	0.20	0.043	
79-00-5	1,1,2-Trichloroethane	ND	0.19	0.095	ND	0.035	0.017	
108-88-3	Toluene	9.7	0.93	0.11	2.6	0.25	0.030	
591-78-6	2-Hexanone	5.7	1.9	0.12	1.4	0.47	0.028	
124-48-1	Dibromochloromethane	ND	0.19	0.12	ND	0.023	0.014	
106-93-4	1,2-Dibromoethane	ND	0.19	0.11	ND	0.025	0.014	
127-18-4	Tetrachloroethene	11	0.19	0.12	1.6	0.029	0.018	
108-90-7	Chlorobenzene	0.17	0.93	0.12	0.037	0.20	0.027	J
100-41-4	Ethylbenzene	27	0.93	0.13	6.3	0.21	0.030	
179601-23-1	m,p-Xylenes	85	1.9	0.25	20	0.45	0.057	
75-25-2	Bromoform	ND	0.95	0.19	ND	0.092	0.019	
100-42-5	Styrene	0.68	0.93	0.15	0.16	0.22	0.036	J
95-47-6	o-Xylene	24	0.93	0.14	5.6	0.21	0.031	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.19	0.13	ND	0.028	0.019	
98-82-8	Cumene	0.76	0.95	0.14	0.15	0.19	0.028	J
541-73-1	1,3-Dichlorobenzene	ND	0.93	0.14	ND	0.16	0.023	
106-46-7	1,4-Dichlorobenzene	ND	0.93	0.14	ND	0.16	0.024	
95-50-1	1,2-Dichlorobenzene	ND	0.95	0.14	ND	0.16	0.023	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.9	0.18	ND	0.20	0.018	
120-82-1	1,2,4-Trichlorobenzene	ND	1.9	0.23	ND	0.26	0.031	
79-20-9	Methyl Acetate	ND	0.88	0.42	ND	0.29	0.14	X
108-87-2	Methylcyclohexane	3.3	0.88	0.46	0.82	0.22	0.11	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS13\DATA\2023_03\23\03232326.D
 Acq On : 23 Mar 2023 21:14
 Sample : P2301250-002 (1000mL)
 Misc : S35-01202301

Vial: 9
 Operator: TZ
 Inst : MS13

TZ 3/27/23

Quant Time: Mar 27 09:06:00 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.34	130	241670	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	9.38	114	1062024	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	199519	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.09	65	409970	12.783	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.24%
57) Toluene-d8 (SS2)	12.48	98	1193515	11.632	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.04%
73) Bromofluorobenzene (SS3)	16.85	174	459267	12.221	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	97.76%

Target Compounds

						Qvalue
2) Propene	3.39	42	50956	2.108	ng	# 67
3) Dichlorodifluoromethan...	3.47	85	64027	1.446	ng	97
4) Chloromethane	3.61	50	13058m	0.409	ng	
5) 1,2-Dichloro-1,1,2,2-t...	3.73	135	1522	0.068	ng	90
6) Vinyl Chloride	3.80	62	2676	0.091	ng	86
7) 1,3-Butadiene	0.00	54	0	N.D.	d	
8) Bromomethane	4.14	94	1682	0.085	ng	87
9) Chloroethane	4.27	64	790	0.057	ng	74
10) Ethanol	4.45	45	2519909	146.817	ng	100
11) Acetonitrile	4.57	41	15351	0.344	ng	97
12) Acrolein	4.65	56	4180	0.294	ng	96
13) Acetone	4.75	58	2008050	137.082	ng	98
14) Trichlorofluoromethane	4.86	101	29239	0.734	ng	98
15) 2-Propanol (Isopropanol)	4.99	45	845843	14.303	ng	100
16) Acrylonitrile	0.00	53	0	N.D.	d	
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.48	84	64487	3.003	ng	96
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	5.68	151	6163	0.294	ng	93
22) Carbon Disulfide	5.70	76	50800	0.597	ng	99
23) trans-1,2-Dichloroethene	6.23	61	142	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.	d	
25) Methyl tert-Butyl Ether	6.46	73	2964	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	6.77	72	140452	10.801	ng	96
28) cis-1,2-Dichloroethene	7.19	61	1163	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	7.38	61	105815	12.375	ng	94
31) n-Hexane	7.38	57	52274	1.588	ng	99
32) Chloroform	7.46	83	20080	0.516	ng	99
34) Tetrahydrofuran (THF)	7.86	72	9628	0.721	ng	# 1
35) Ethyl tert-Butyl Ether	7.99	87	389	N.D.		
36) 1,2-Dichloroethane	8.21	62	526	N.D.		
38) 1,1,1-Trichloroethane	8.49	97	111471	3.171	ng	99
39) Isopropyl Acetate	9.38	61	30888	No Calib	#	
40) 1-Butanol	8.89	56	245666	No Calib	#	
41) Benzene	8.99	78	53750	0.651	ng	96
42) Carbon Tetrachloride	9.15	117	10917m	0.352	ng	
43) Cyclohexane	9.29	84	15730	0.519	ng	94
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.	d	
47) Trichloroethene	10.22	130	70824	2.926	ng	97
48) 1,4-Dioxane	0.00	88	0	N.D.	d	
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.	d	
50) Methyl Methacrylate	10.48	100	126	N.D.		

Data File : I:\MS13\DATA\2023_03\23\03232326.D
 Acq On : 23 Mar 2023 21:14
 Sample : P2301250-002 (1000mL)
 Misc : S35-01202301

Vial: 9
 Operator: TZ
 Inst : MS13

Quant Time: Mar 27 09:06:00 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

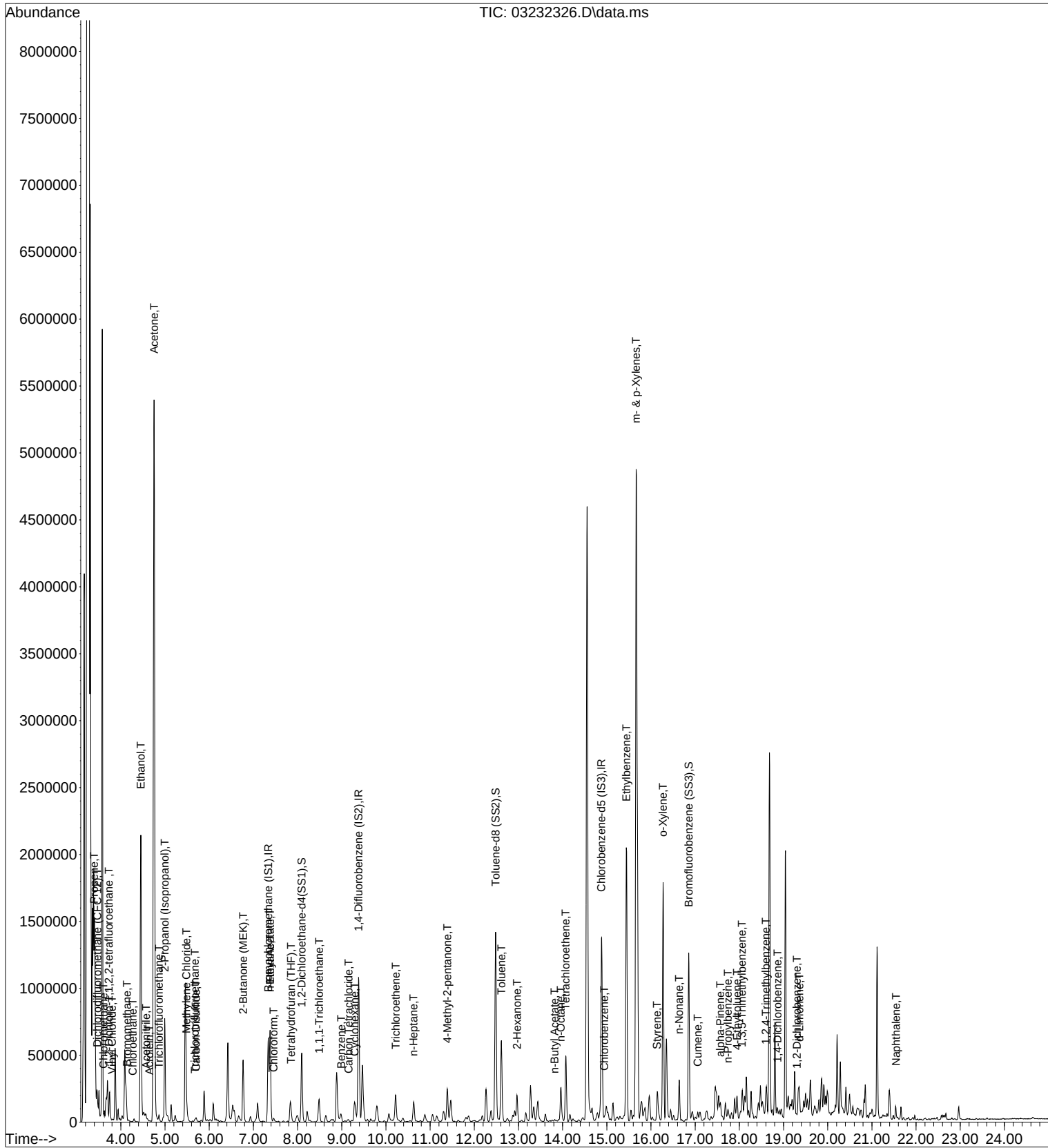
DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.63	71	40389	2.020	ng	99
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.39	58	87403	4.907	ng	93
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	12.13	97	212	N.D.		
58) Toluene	12.61	91	539876	5.527	ng	100
59) 2-Hexanone	12.97	43	153576	3.237	ng	90
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	13.43	107	244	N.D.		
62) n-Butyl Acetate	13.82	43	15849	0.294	ng	83
63) n-Octane	13.96	57	44565	2.320	ng	92
64) Tetrachloroethene	14.07	166	181614	6.112	ng	100
65) Chlorobenzene	14.94	112	6274	0.097	ng	92
66) Ethylbenzene	15.44	91	1797914	15.429	ng	99
67) m- & p-Xylenes	15.66	91	4539025	48.396	ng	99
68) Bromoform	15.72	173	142	N.D.		
69) Styrene	16.14	104	25075	0.389	ng	97
70) o-Xylene	16.27	91	1235973	13.782	ng	100
71) n-Nonane	16.64	43	126868	2.923	ng	97
72) 1,1,2,2-Tetrachloroethane	16.24	83	243	N.D.		
74) Cumene	17.06	105	46905	0.430	ng	100
75) alpha-Pinene	17.57	93	50072	0.995	ng	95
76) n-Propylbenzene	17.74	91	42845	0.328	ng	98
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	40991	0.392	ng	99
79) 1,3,5-Trimethylbenzene	18.06	105	53416	0.577	ng	99
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.60	105	79299	0.869	ng	88
83) n-Decane	17.01	58	1250	No Calib	#	
84) Benzyl Chloride	18.80	91	1167	N.D.		
85) 1,3-Dichlorobenzene	18.77	146	1794	N.D.		
86) 1,4-Dichlorobenzene	18.86	146	3882	0.068	ng	99
87) sec-Butylbenzene	18.96	105	5703	N.D.		
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.	d	
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.30	146	3676	0.067	ng	98
91) d-Limonene	19.36	68	30350	0.984	ng	95
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.26	58	2229	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	462	N.D.		
95) Naphthalene	21.55	128	5207	0.053	ng	92
96) n-Dodecane	19.19	58	1979	No Calib	#	
97) Hexachlorobutadiene	21.99	225	562	N.D.		
98) Cyclohexanone	15.66	55	9641	No Calib	#	
99) tert-Butylbenzene	0.00	119	0	N.D.	d	
100) n-Butylbenzene	0.00	91	0	N.D.	d	
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Vial: 9
Operator: TZ
Inst : MS13

Quant Time: Mar 27 09:06:00 2023



Data File : I:\MS13\DATA\2023_03\23\03232326.D

Vial: 9

Acq On : 23 Mar 2023 21:14

Operator: TZ

TZ 3/27/23

Sample : P2301250-002 (1000mL)

Inst : MS13

Misc : S35-01202301

Quant Time: Mar 27 09:06:00 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.34	130	241670	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	9.38	114	1062024	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	199519	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.09	65	409970	12.783	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.24%
57) Toluene-d8 (SS2)	12.48	98	1193515	11.632	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.04%
73) Bromofluorobenzene (SS3)	16.85	174	459267	12.221	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	97.76%

Target Compounds

						Qvalue
2) Propene	3.39	42	50956	2.108	ng	# 67
3) Dichlorodifluoromethan...	3.47	85	64027	1.446	ng	97
4) Chloromethane	3.61	50	13058m	0.409	ng	
5) 1,2-Dichloro-1,1,2,2-t...	3.73	135	1522	0.068	ng	90
6) Vinyl Chloride	3.80	62	2676	0.091	ng	86
8) Bromomethane	4.14	94	1682	0.085	ng	87
9) Chloroethane	4.27	64	790	0.057	ng	74
10) Ethanol	4.45	45	2519909	146.817	ng	100
11) Acetonitrile	4.57	41	15351	0.344	ng	97
12) Acrolein	4.65	56	4180	0.294	ng	96
13) Acetone	4.75	58	2008050	137.082	ng	98
14) Trichlorofluoromethane	4.86	101	29239	0.734	ng	98
15) 2-Propanol (Isopropanol)	4.99	45	845843	14.303	ng	100
19) Methylene Chloride	5.48	84	64487	3.003	ng	96
21) Trichlorotrifluoroethane	5.68	151	6163	0.294	ng	93
22) Carbon Disulfide	5.70	76	50800	0.597	ng	99
27) 2-Butanone (MEK)	6.77	72	140452	10.801	ng	96
30) Ethyl Acetate	7.38	61	105815	12.375	ng	94
31) n-Hexane	7.38	57	52274	1.588	ng	99
32) Chloroform	7.46	83	20080	0.516	ng	99
34) Tetrahydrofuran (THF)	7.86	72	9628	0.721	ng	# 1
38) 1,1,1-Trichloroethane	8.49	97	111471	3.171	ng	99
41) Benzene	8.99	78	53750	0.651	ng	96
42) Carbon Tetrachloride	9.15	117	10917m	0.352	ng	
43) Cyclohexane	9.29	84	15730	0.519	ng	94
47) Trichloroethene	10.22	130	70824	2.926	ng	97
51) n-Heptane	10.63	71	40389	2.020	ng	99
53) 4-Methyl-2-pentanone	11.39	58	87403	4.907	ng	93
58) Toluene	12.61	91	539876	5.527	ng	100
59) 2-Hexanone	12.97	43	153576	3.237	ng	90
62) n-Butyl Acetate	13.82	43	15849	0.294	ng	83
63) n-Octane	13.96	57	44565	2.320	ng	92
64) Tetrachloroethene	14.07	166	181614	6.112	ng	100
65) Chlorobenzene	14.94	112	6274	0.097	ng	92
66) Ethylbenzene	15.44	91	1797914	15.429	ng	99
67) m- & p-Xylenes	15.66	91	4539025	48.396	ng	99
69) Styrene	16.14	104	25075	0.389	ng	97
70) o-Xylene	16.27	91	1235973	13.782	ng	100
71) n-Nonane	16.64	43	126868	2.923	ng	97
74) Cumene	17.06	105	46905	0.430	ng	100
75) alpha-Pinene	17.57	93	50072	0.995	ng	95
76) n-Propylbenzene	17.74	91	42845	0.328	ng	98
78) 4-Ethyltoluene	17.95	105	40991	0.392	ng	99
79) 1,3,5-Trimethylbenzene	18.06	105	53416	0.577	ng	99
82) 1,2,4-Trimethylbenzene	18.60	105	79299	0.869	ng	88
86) 1,4-Dichlorobenzene	18.86	146	3882	0.068	ng	99
90) 1,2-Dichlorobenzene	19.30	146	3676	0.067	ng	98

Data File : I:\MS13\DATA\2023_03\23\03232326.D
Acq On : 23 Mar 2023 21:14
Sample : P2301250-002 (1000mL)
Misc : S35-01202301

Vial: 9
Operator: TZ
Inst : MS13

Quant Time: Mar 27 09:06:00 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) d-Limonene	19.36	68	30350	0.984	ng	95
95) Naphthalene	21.55	128	5207	0.053	ng	92

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

Vial: 9
Operator: TZ
Inst : MS13

Quant Time: Mar 27 09:06:00 2023

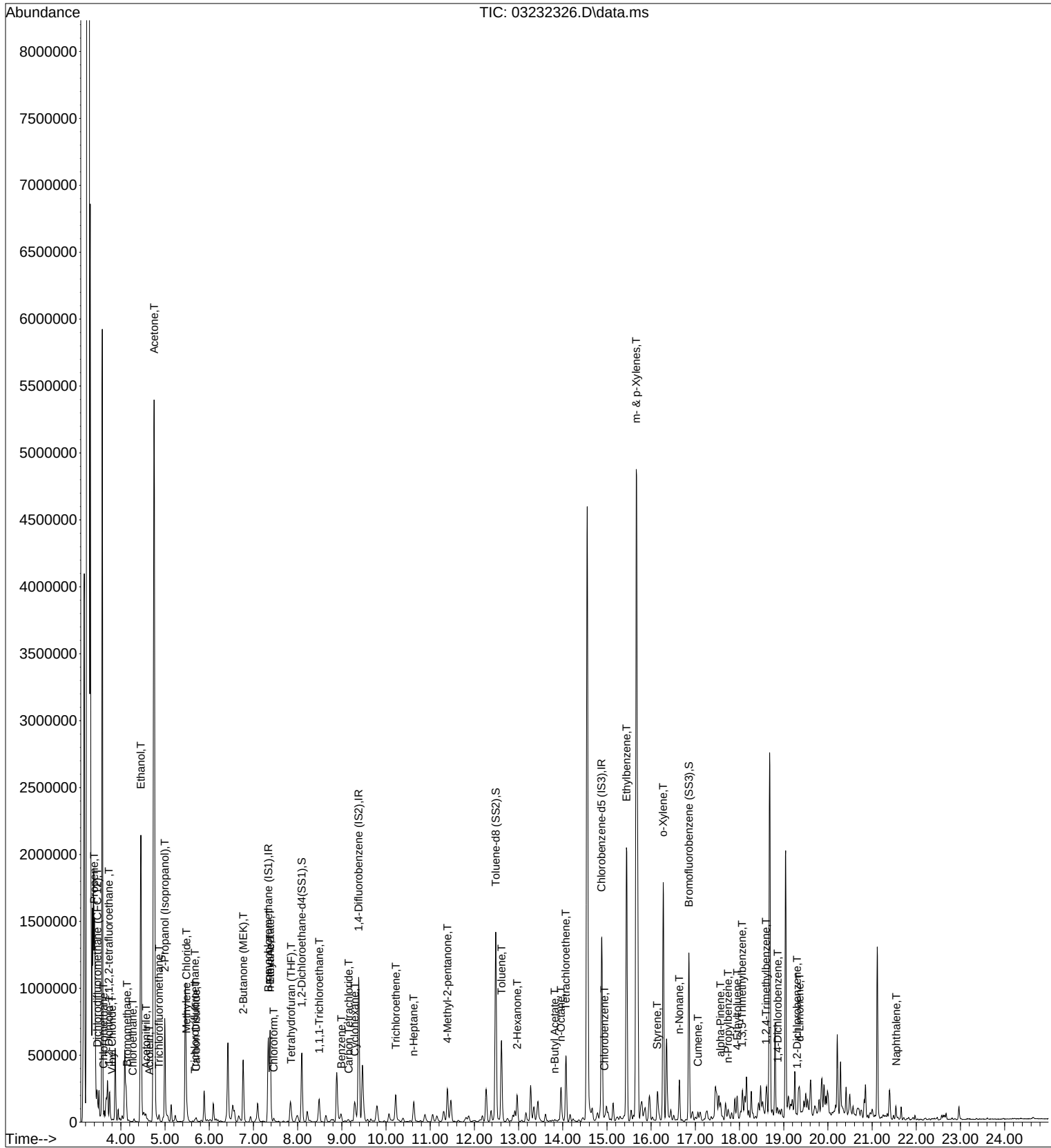
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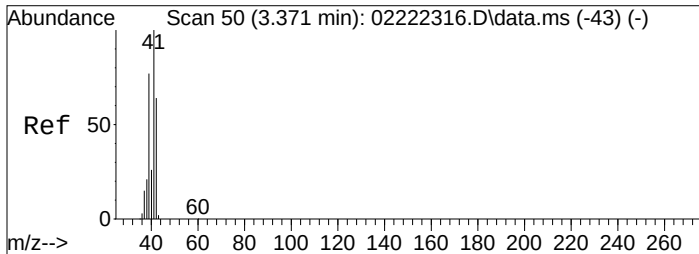
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QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

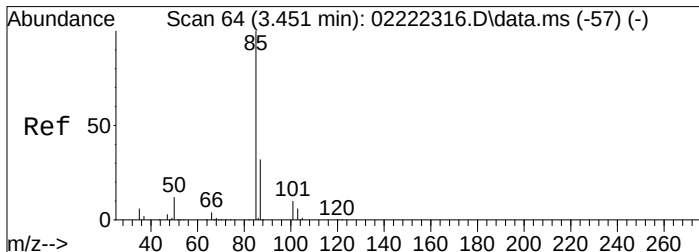
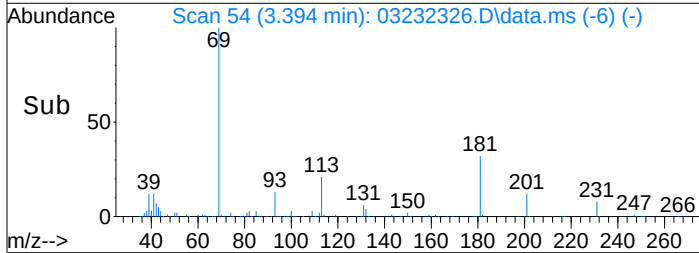
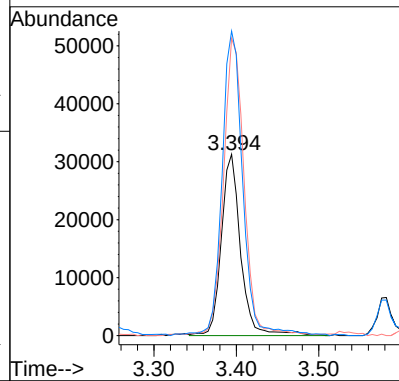
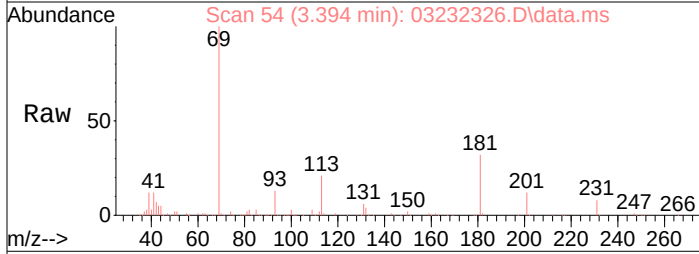
DataAcq Meth:T015.M





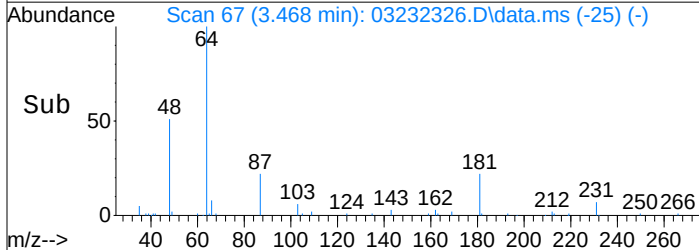
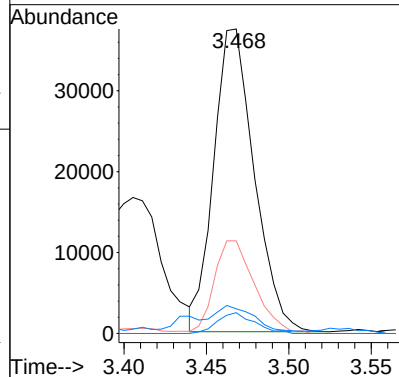
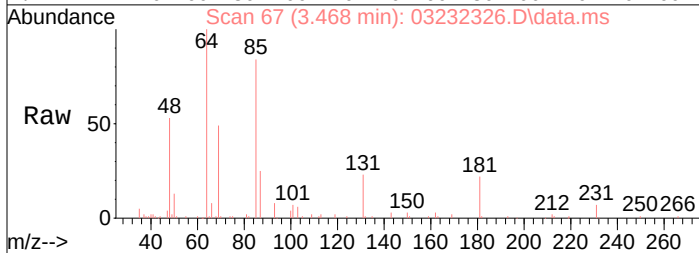
#2
 Propene
 Concen: 2.11 ng
 RT: 3.39 min Scan# 54
 Delta R.T. 0.023 min
 Lab File: 03232326.D
 Acq: 23 Mar 2023 21:14

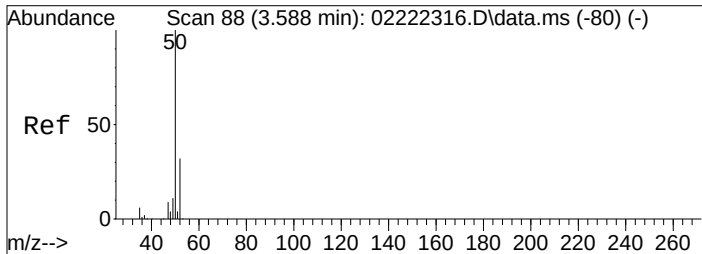
Tgt Ion: 42 Resp: 50956
 Ion Ratio Lower Upper
 42 100
 39 176.3 100.7 140.7#
 41 180.7 134.4 174.4#



#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.45 ng
 RT: 3.47 min Scan# 67
 Delta R.T. -0.010 min
 Lab File: 03232326.D
 Acq: 23 Mar 2023 21:14

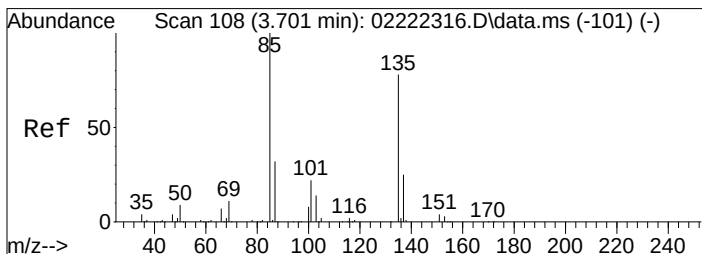
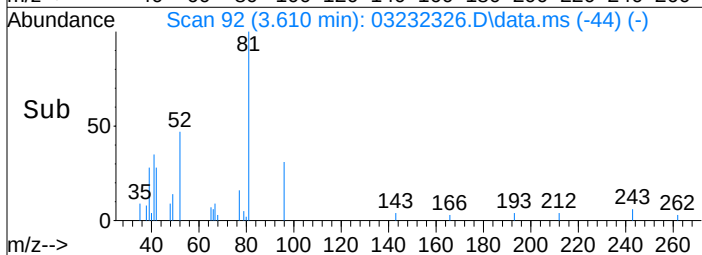
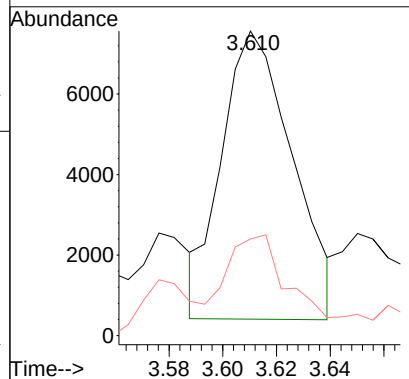
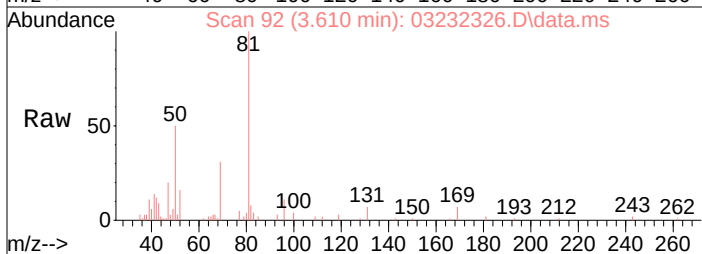
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 Ion Ratio Lower Upper
 85 100
 87 30.7 12.4 52.4
 101 8.3 0.0 29.4
 103 6.3 0.0 26.0





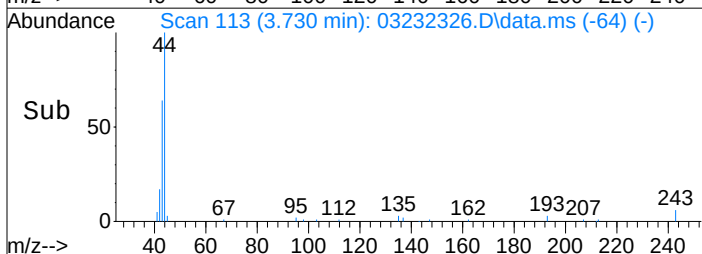
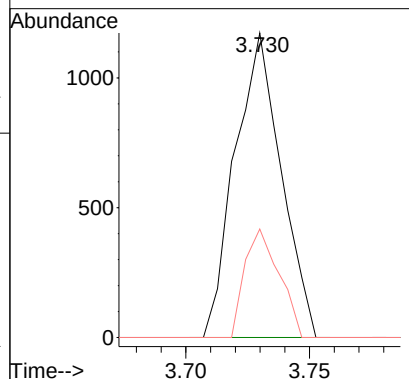
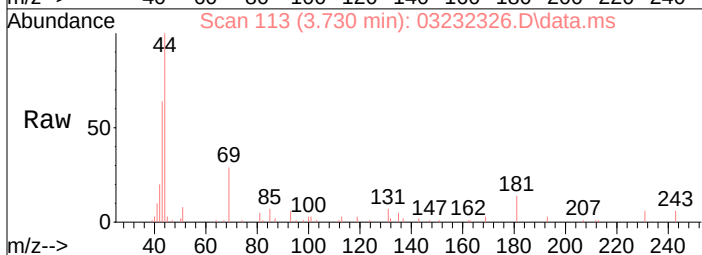
#4
Chloromethane
Concen: 0.41 ng m
RT: 3.61 min Scan# 92
Delta R.T. 0.023 min
Lab File: 03232326.D
Acq: 23 Mar 2023 21:14

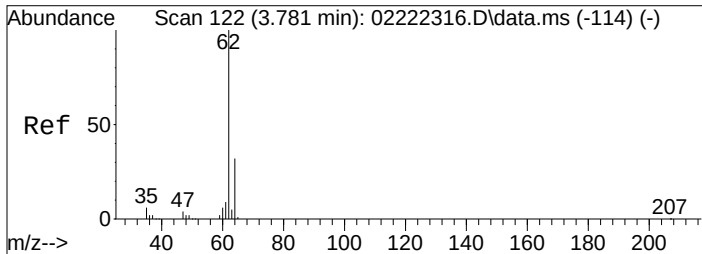
Tgt Ion: 50 Resp: 13058
Ion Ratio Lower Upper
50 100
52 32.4 13.0 53.0



#5
1,2-Dichloro-1,1,2,2-tetrafluoroethane
Concen: 0.07 ng
RT: 3.73 min Scan# 113
Delta R.T. 0.028 min
Lab File: 03232326.D
Acq: 23 Mar 2023 21:14

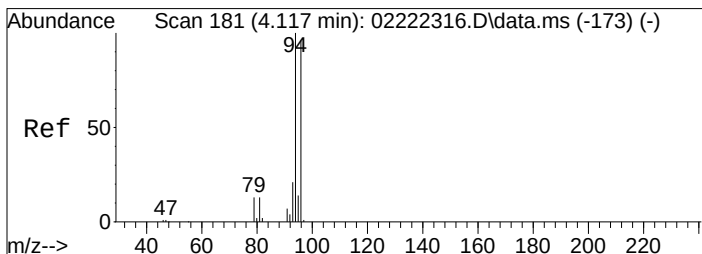
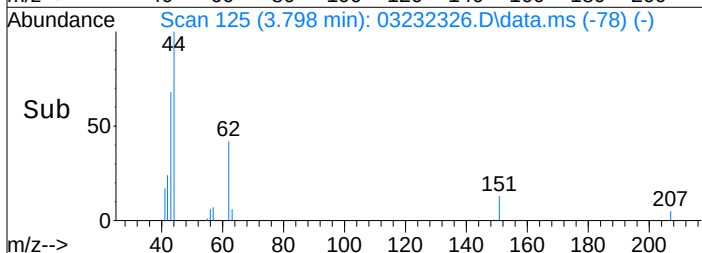
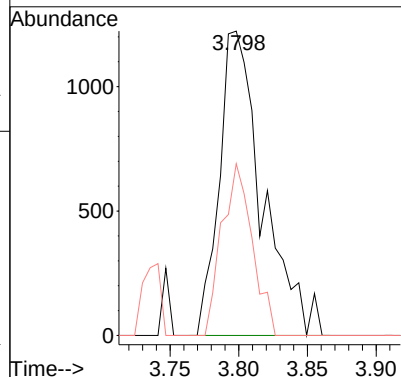
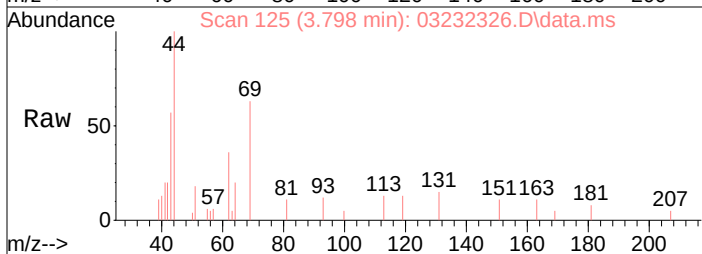
Tgt Ion: 135 Resp: 1522
Ion Ratio Lower Upper
135 100
137 26.6 12.2 52.2





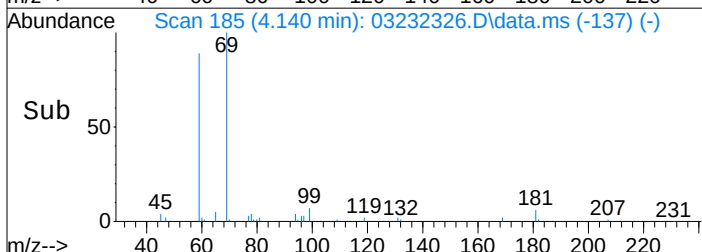
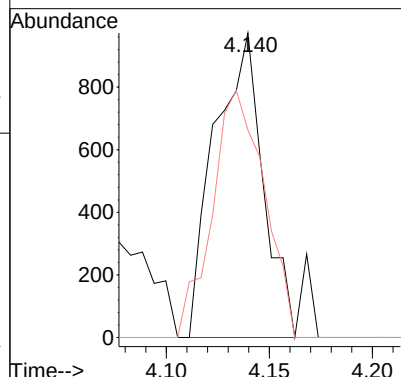
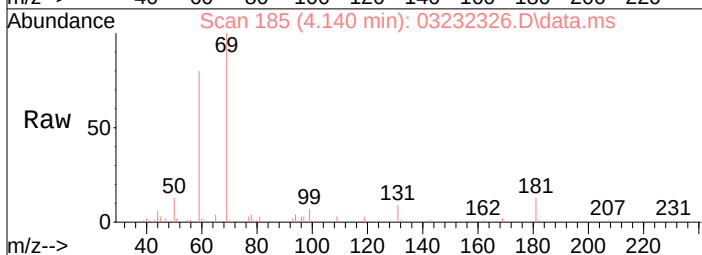
#6
 Vinyl Chloride
 Concen: 0.09 ng
 RT: 3.80 min Scan# 125
 Delta R.T. 0.017 min
 Lab File: 03232326.D
 Acq: 23 Mar 2023 21:14

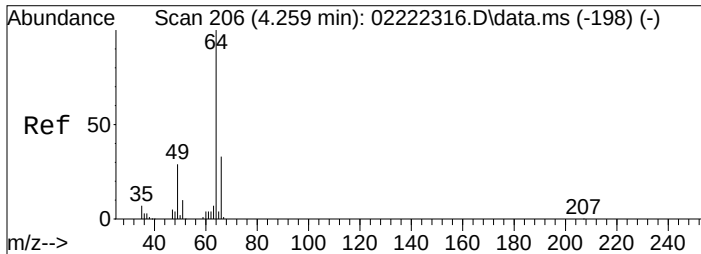
Tgt Ion: 62 Resp: 2676
 Ion Ratio Lower Upper
 62 100
 64 39.6 11.8 51.8



#8
 Bromomethane
 Concen: 0.08 ng
 RT: 4.14 min Scan# 185
 Delta R.T. 0.023 min
 Lab File: 03232326.D
 Acq: 23 Mar 2023 21:14

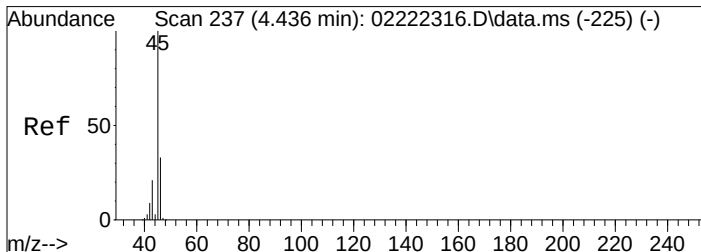
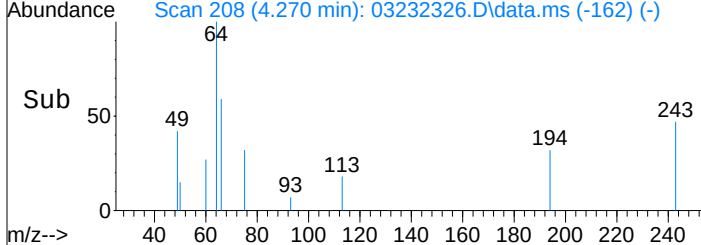
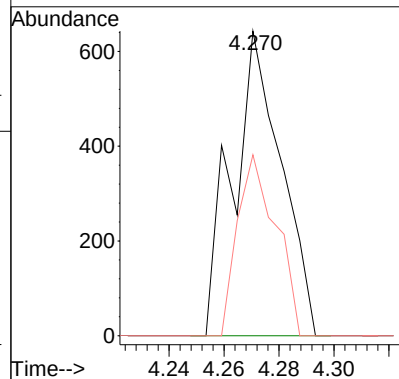
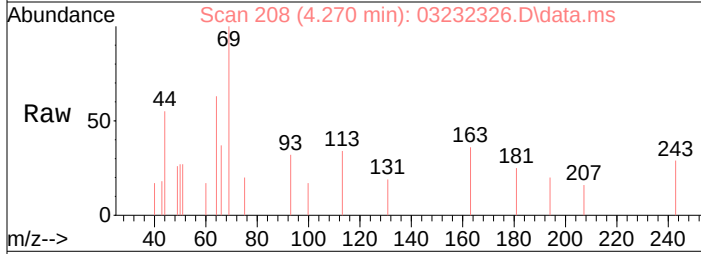
Tgt Ion: 94 Resp: 1682
 Ion Ratio Lower Upper
 94 100
 96 82.8 75.1 115.1





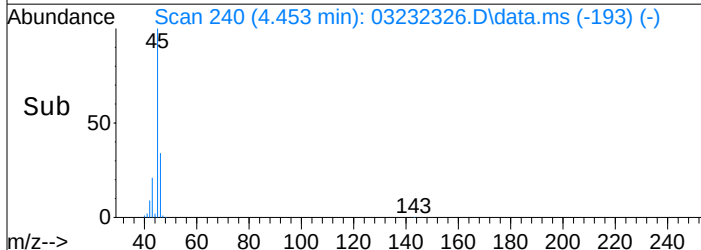
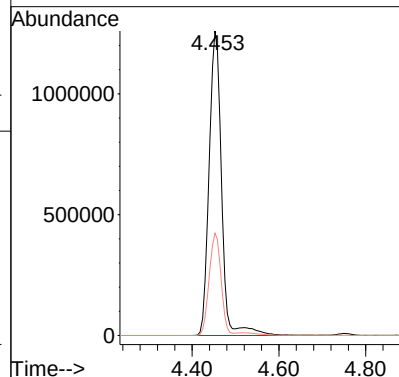
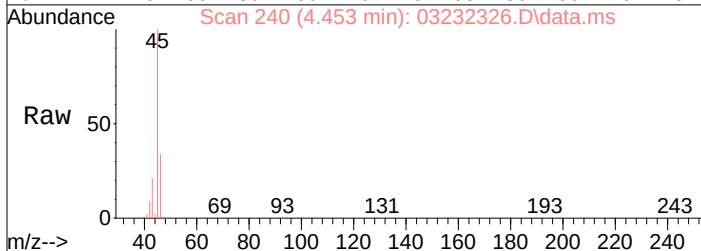
#9
Chloroethane
Concen: 0.06 ng
RT: 4.27 min Scan# 208
Delta R.T. 0.011 min
Lab File: 03232326.D
Acq: 23 Mar 2023 21:14

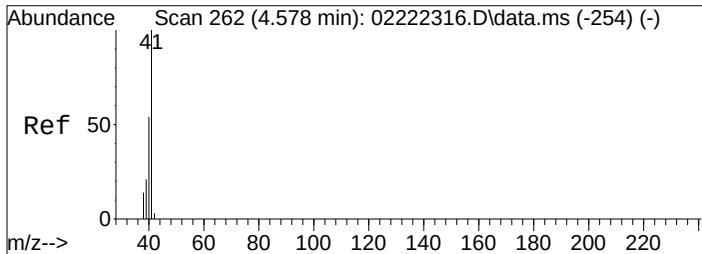
Tgt Ion: 64 Resp: 790
Ion Ratio Lower Upper
64 100
66 47.1 12.3 52.3



#10
Ethanol
Concen: 146.82 ng
RT: 4.45 min Scan# 240
Delta R.T. 0.017 min
Lab File: 03232326.D
Acq: 23 Mar 2023 21:14

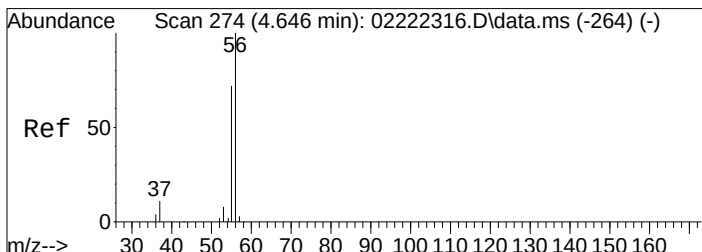
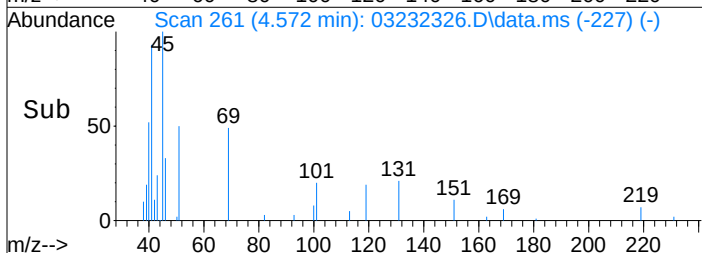
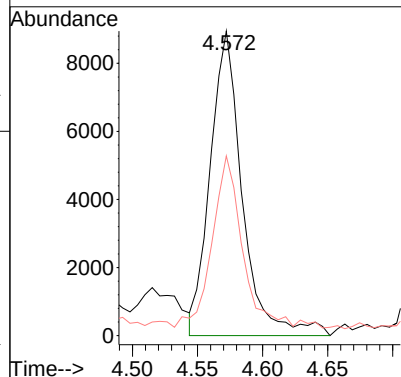
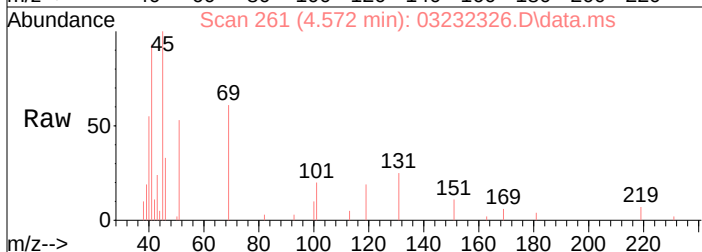
Tgt Ion: 45 Resp: 2519909
Ion Ratio Lower Upper
45 100
46 33.8 13.8 53.8





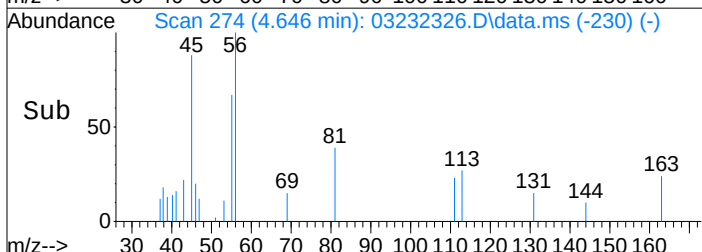
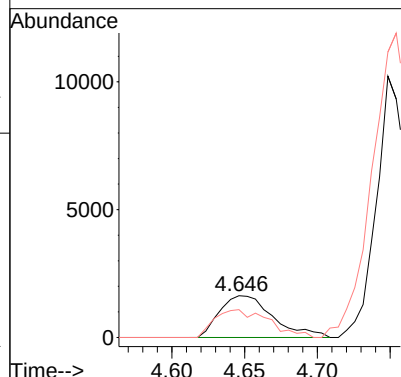
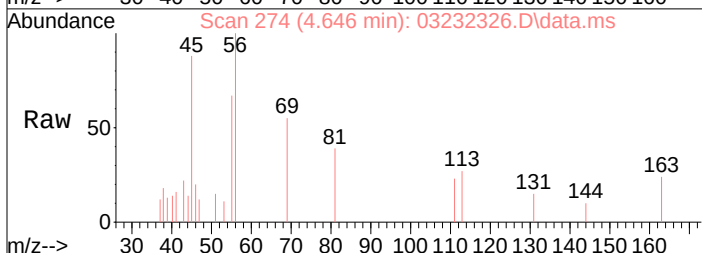
#11
Acetonitrile
Concen: 0.34 ng
RT: 4.57 min Scan# 261
Delta R.T. -0.006 min
Lab File: 03232326.D
Acq: 23 Mar 2023 21:14

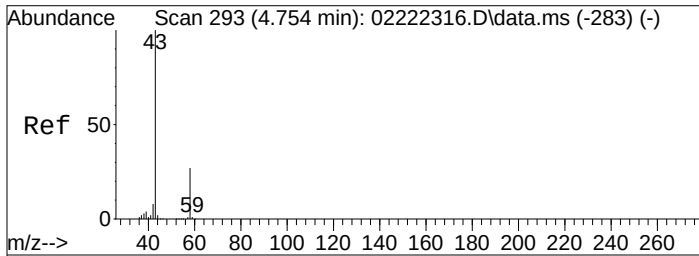
Tgt Ion: 41 Resp: 15351
Ion Ratio Lower Upper
41 100
40 56.6 34.4 74.4



#12
Acrolein
Concen: 0.29 ng
RT: 4.65 min Scan# 274
Delta R.T. -0.000 min
Lab File: 03232326.D
Acq: 23 Mar 2023 21:14

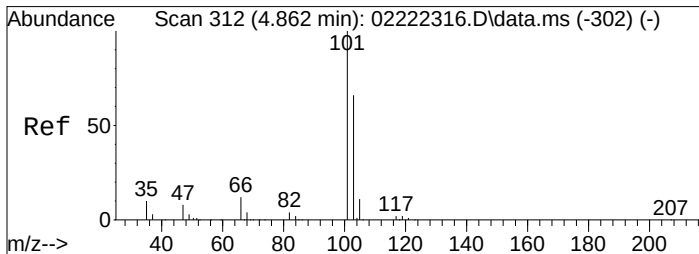
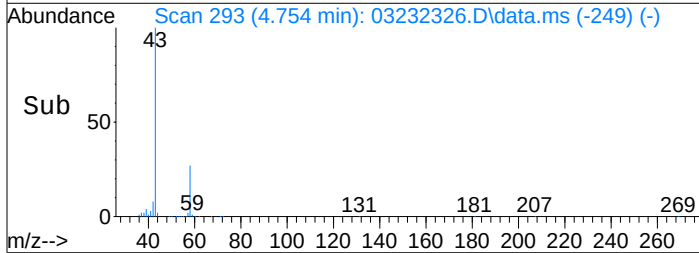
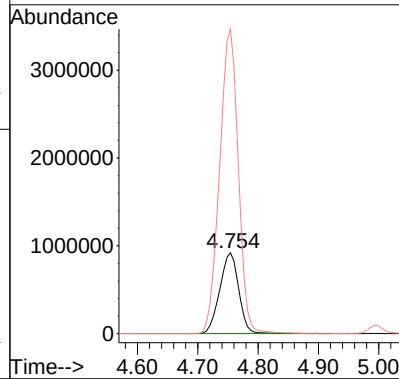
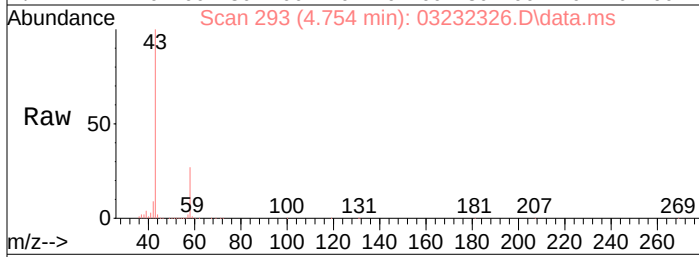
Tgt Ion: 56 Resp: 4180
Ion Ratio Lower Upper
56 100
55 67.8 50.9 90.9





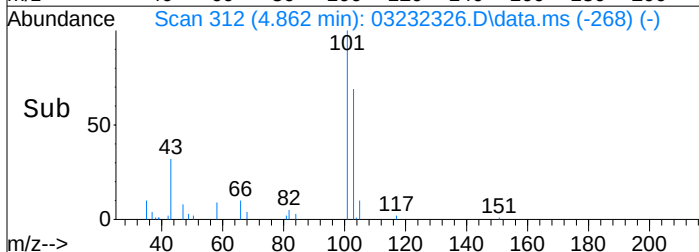
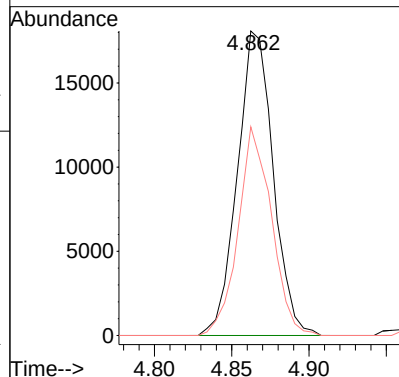
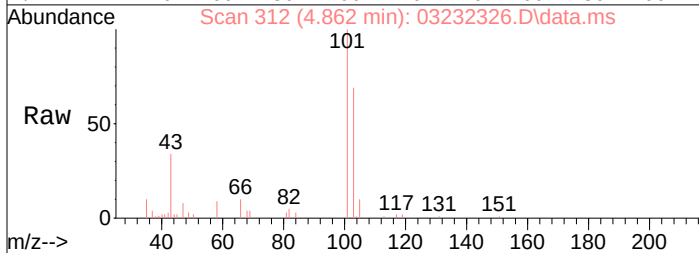
#13
Acetone
Concen: 137.08 ng
RT: 4.75 min Scan# 293
Delta R.T. -0.000 min
Lab File: 03232326.D
Acq: 23 Mar 2023 21:14

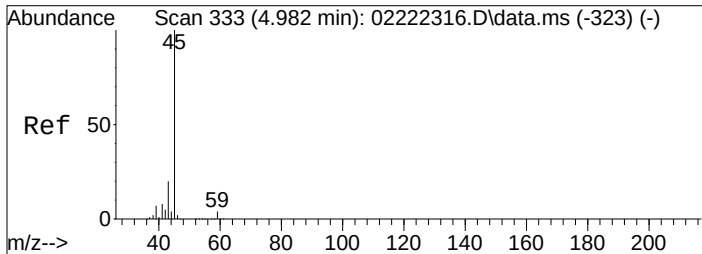
Tgt Ion: 58 Resp: 2008050
Ion Ratio Lower Upper
58 100
43 372.5 337.8 397.8



#14
Trichlorofluoromethane
Concen: 0.73 ng
RT: 4.86 min Scan# 312
Delta R.T. -0.000 min
Lab File: 03232326.D
Acq: 23 Mar 2023 21:14

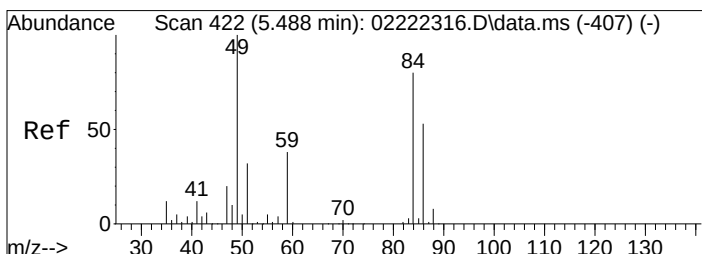
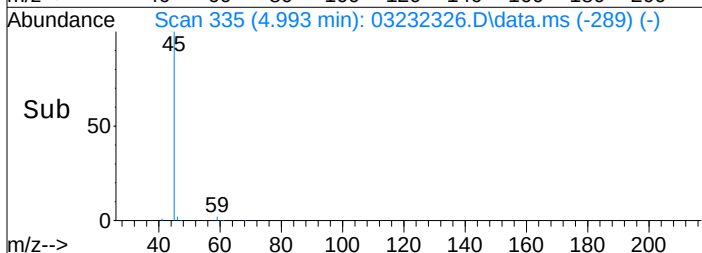
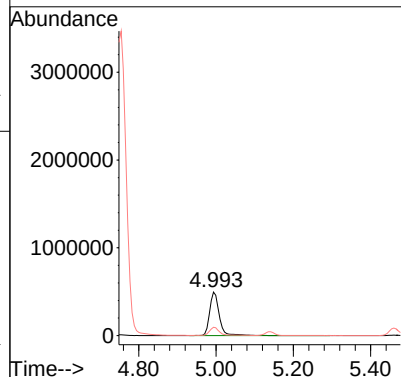
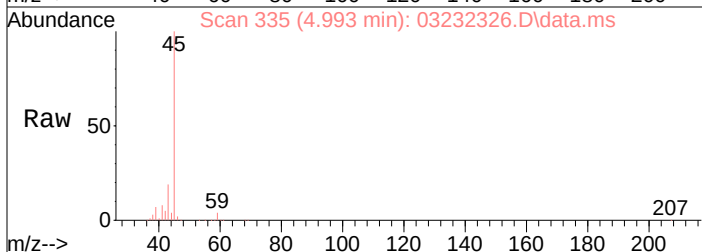
Tgt Ion: 101 Resp: 29239
Ion Ratio Lower Upper
101 100
103 63.8 45.2 85.2





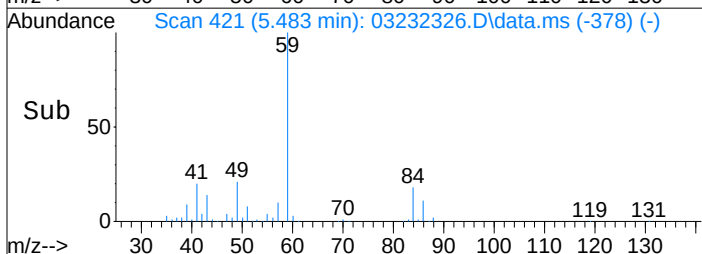
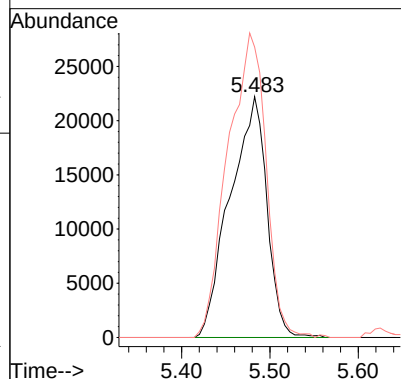
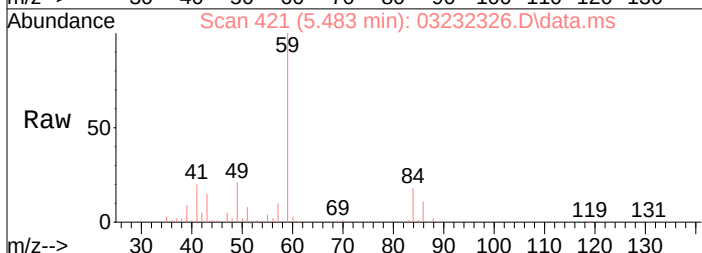
#15
2-Propanol (Isopropanol)
Concen: 14.30 ng
RT: 4.99 min Scan# 335
Delta R.T. 0.011 min
Lab File: 03232326.D
Acq: 23 Mar 2023 21:14

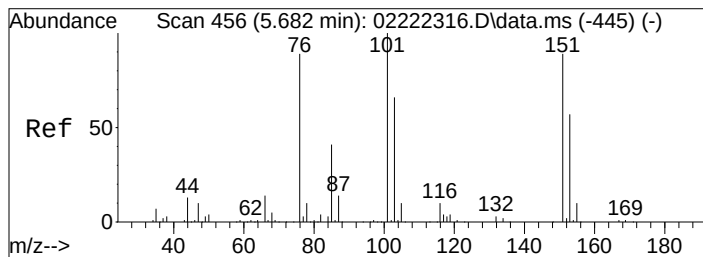
Tgt Ion: 45 Resp: 845843
Ion Ratio Lower Upper
45 100
43 19.9 0.0 39.7



#19
Methylene Chloride
Concen: 3.00 ng
RT: 5.48 min Scan# 421
Delta R.T. -0.006 min
Lab File: 03232326.D
Acq: 23 Mar 2023 21:14

Tgt Ion: 84 Resp: 64487
Ion Ratio Lower Upper
84 100
49 130.6 101.3 151.3





#21

Trichlorotrifluoroethane

Concen: 0.29 ng

RT: 5.68 min Scan# 455

Delta R.T. -0.006 min

Lab File: 03232326.D

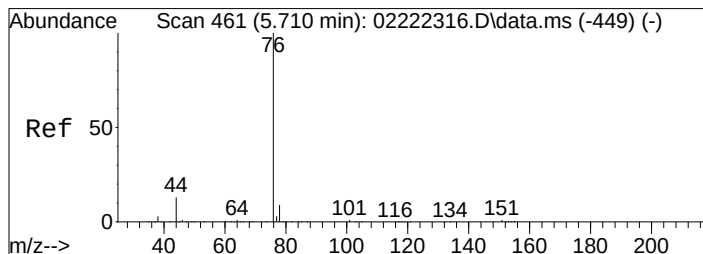
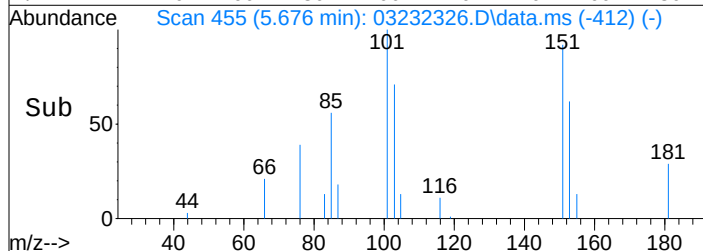
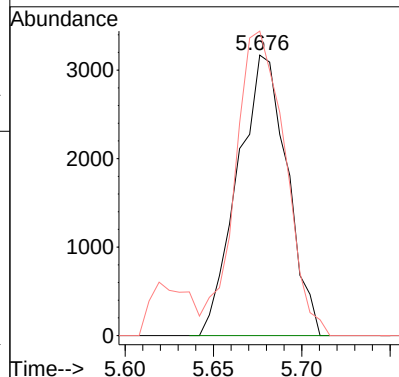
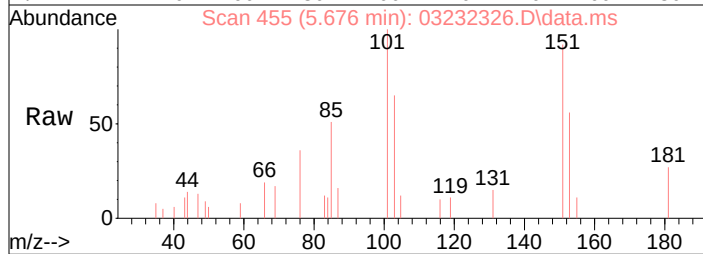
Acq: 23 Mar 2023 21:14

Tgt Ion: 151 Resp: 6163

Ion Ratio Lower Upper

151 100

101 109.0 96.3 136.3



#22

Carbon Disulfide

Concen: 0.60 ng

RT: 5.70 min Scan# 460

Delta R.T. -0.006 min

Lab File: 03232326.D

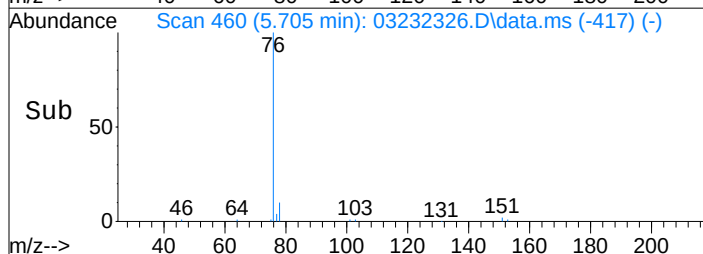
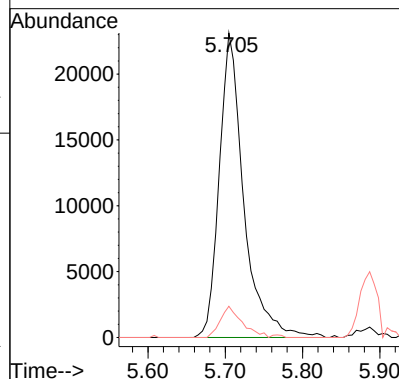
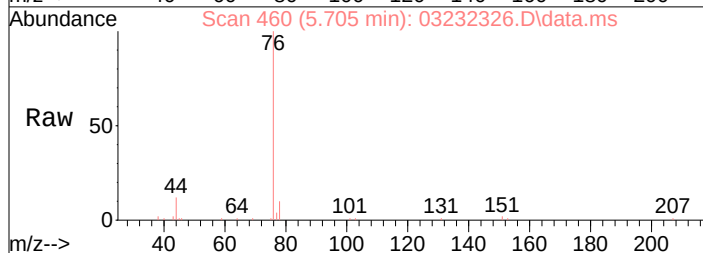
Acq: 23 Mar 2023 21:14

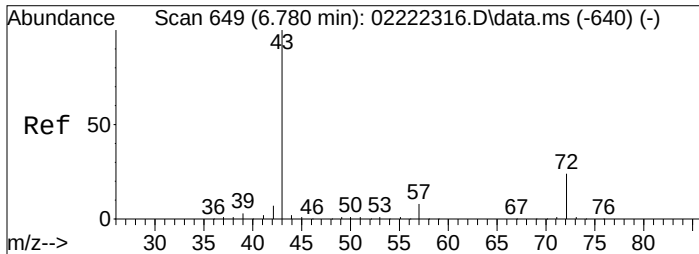
Tgt Ion: 76 Resp: 50800

Ion Ratio Lower Upper

76 100

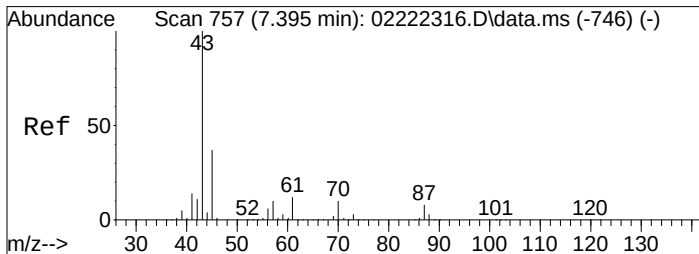
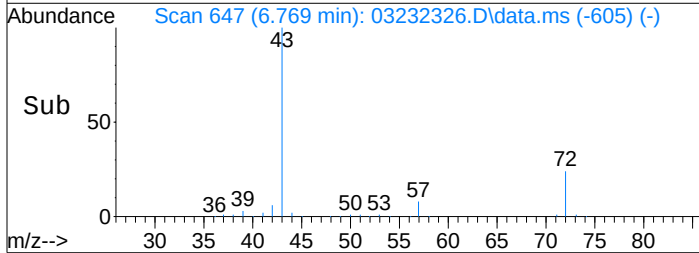
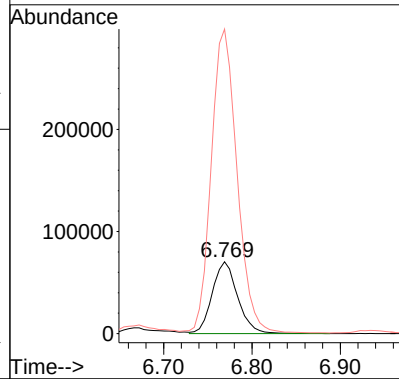
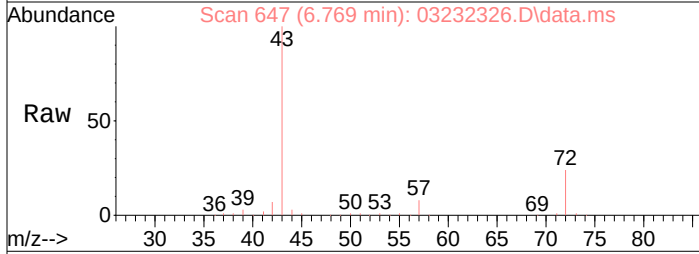
78 9.1 0.0 29.3





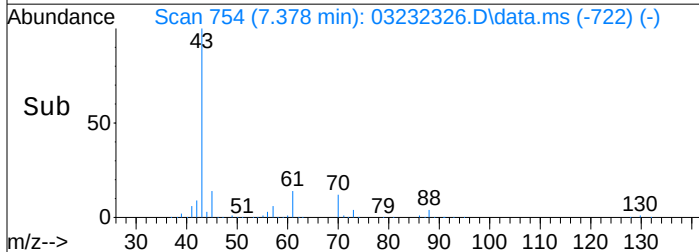
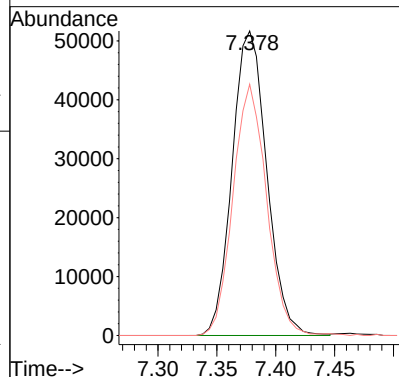
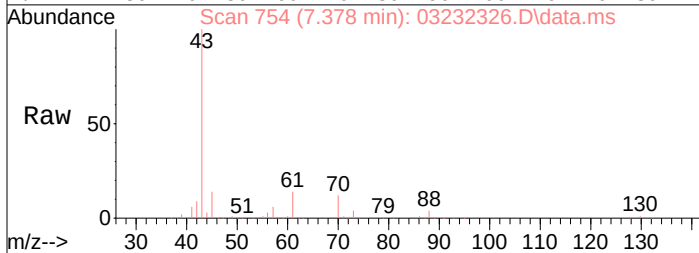
#27
2-Butanone (MEK)
Concen: 10.80 ng
RT: 6.77 min Scan# 647
Delta R.T. -0.011 min
Lab File: 03232326.D
Acq: 23 Mar 2023 21:14

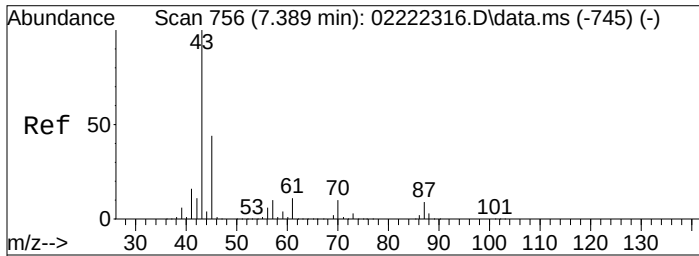
Tgt Ion: 72 Resp: 140452
Ion Ratio Lower Upper
72 100
43 429.9 400.5 440.5



#30
Ethyl Acetate
Concen: 12.37 ng
RT: 7.38 min Scan# 754
Delta R.T. -0.017 min
Lab File: 03232326.D
Acq: 23 Mar 2023 21:14

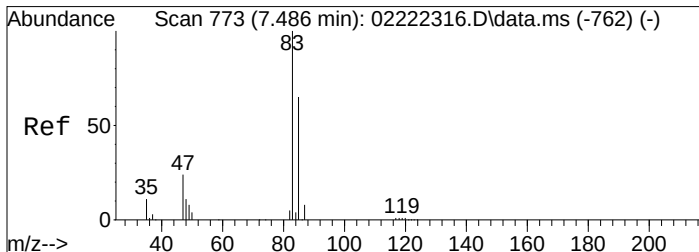
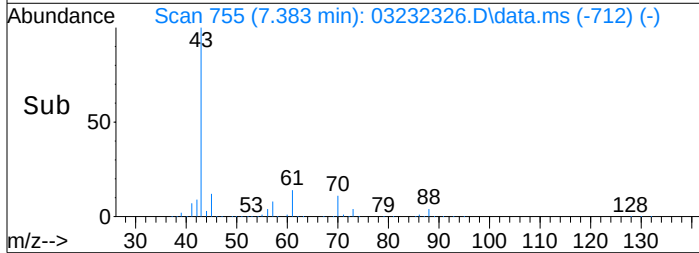
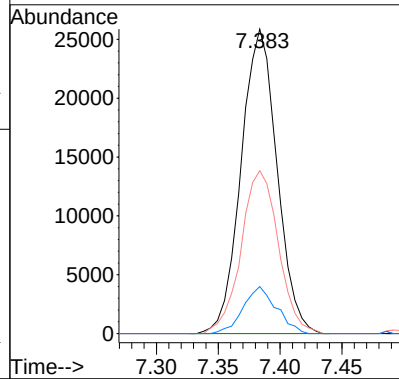
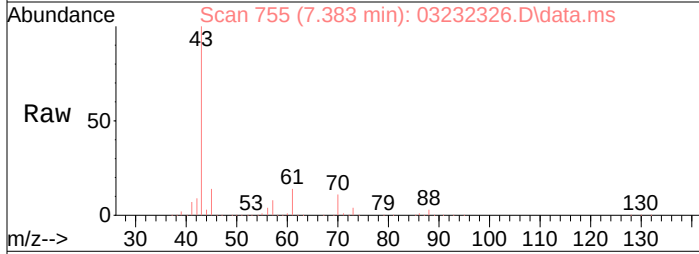
Tgt Ion: 61 Resp: 105815
Ion Ratio Lower Upper
61 100
70 80.3 65.6 105.6





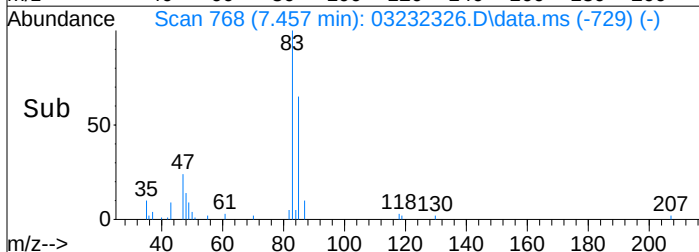
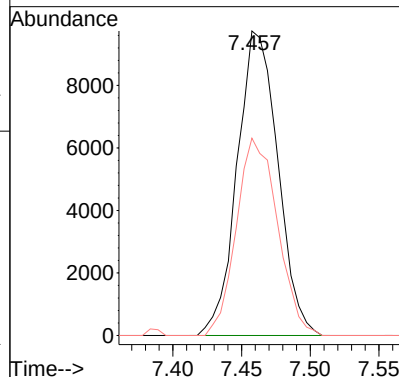
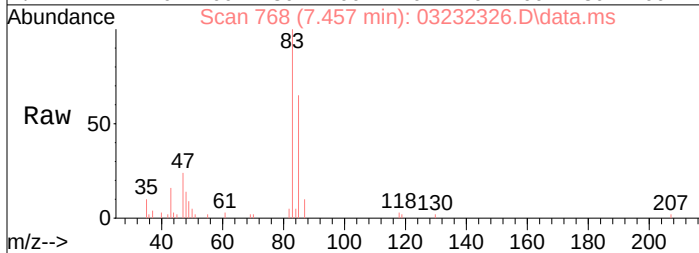
#31
n-Hexane
Concen: 1.59 ng
RT: 7.38 min Scan# 755
Delta R.T. -0.006 min
Lab File: 03232326.D
Acq: 23 Mar 2023 21:14

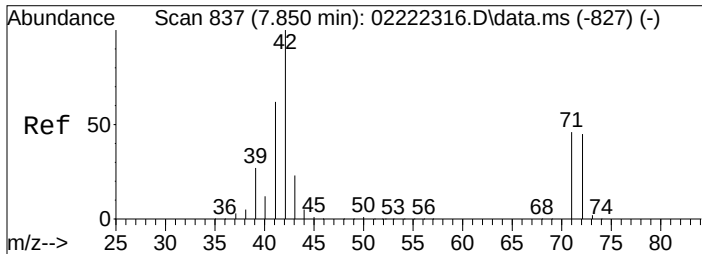
Tgt Ion: 57 Resp: 52274
Ion Ratio Lower Upper
57 100
56 55.5 44.0 66.0
86 14.3 11.5 17.3



#32
Chloroform
Concen: 0.52 ng
RT: 7.46 min Scan# 768
Delta R.T. -0.028 min
Lab File: 03232326.D
Acq: 23 Mar 2023 21:14

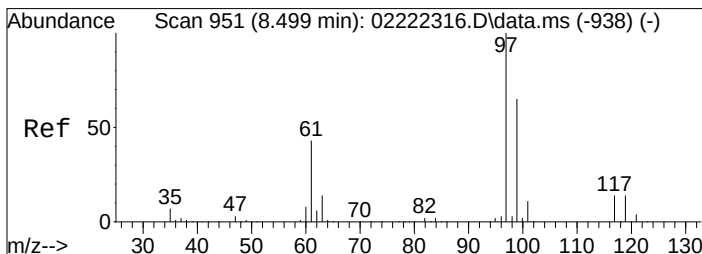
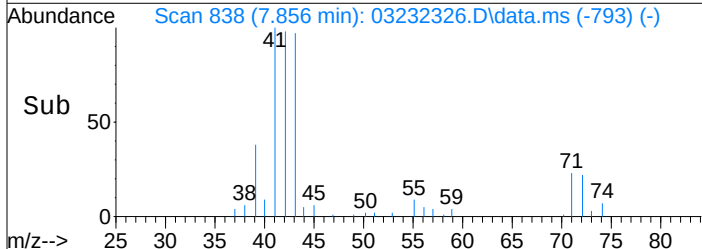
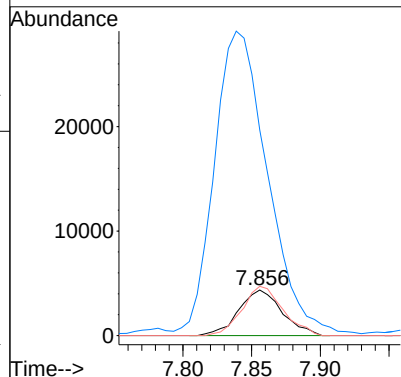
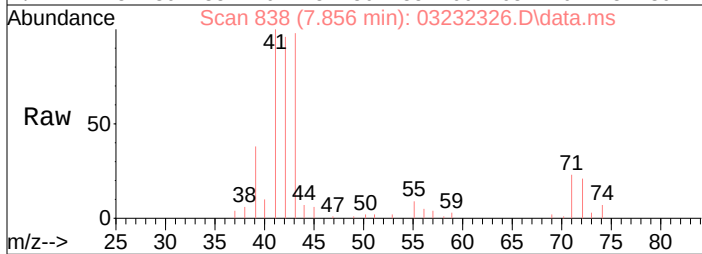
Tgt Ion: 83 Resp: 20080
Ion Ratio Lower Upper
83 100
85 65.6 45.0 85.0





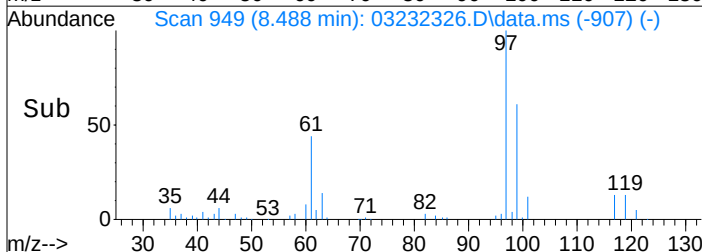
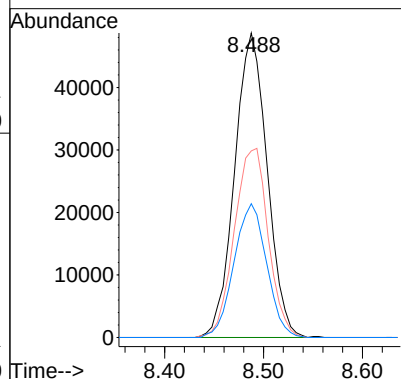
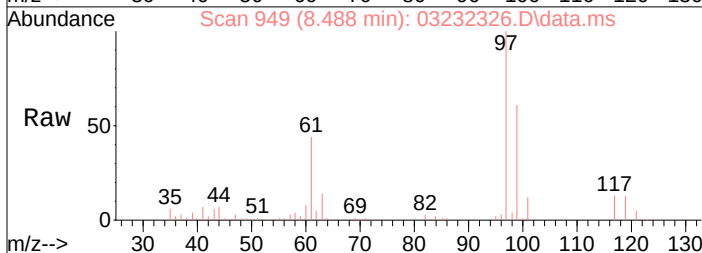
#34
Tetrahydrofuran (THF)
Concen: 0.72 ng
RT: 7.86 min Scan# 838
Delta R.T. 0.006 min
Lab File: 03232326.D
Acq: 23 Mar 2023 21:14

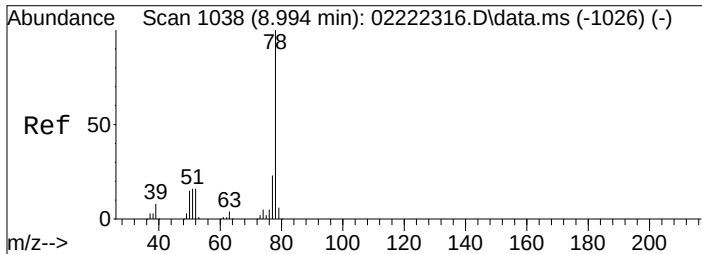
Tgt Ion:	72	Resp:	9628
Ion Ratio	Lower	Upper	
72	100		
71	101.6	79.8	119.8
42	809.6	199.0	239.0#



#38
1,1,1-Trichloroethane
Concen: 3.17 ng
RT: 8.49 min Scan# 949
Delta R.T. -0.011 min
Lab File: 03232326.D
Acq: 23 Mar 2023 21:14

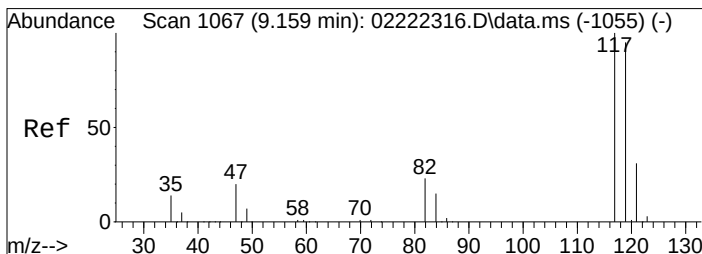
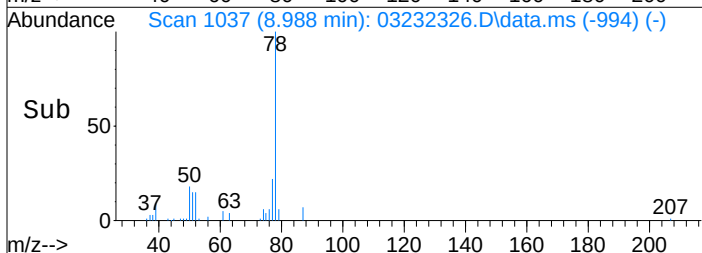
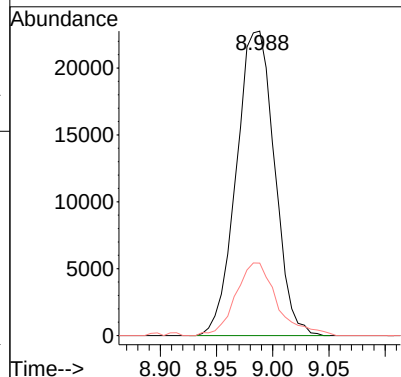
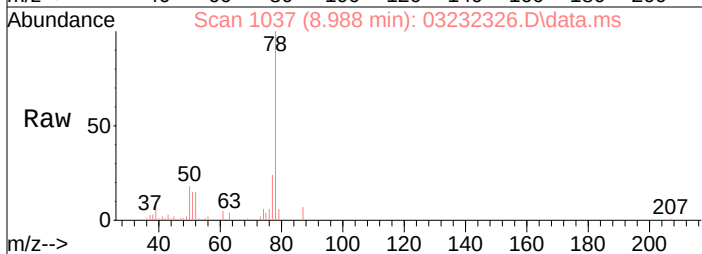
Tgt Ion:	97	Resp:	111471
Ion Ratio	Lower	Upper	
97	100		
99	64.6	44.9	84.9
61	44.0	23.5	63.5





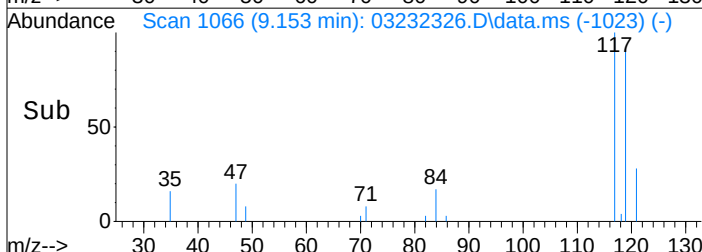
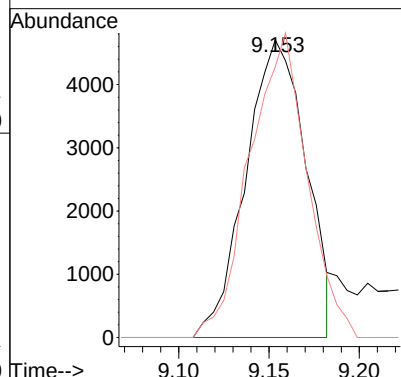
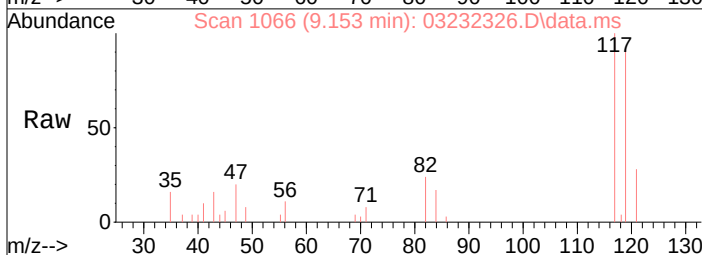
#41
Benzene
Concen: 0.65 ng
RT: 8.99 min Scan# 1037
Delta R.T. -0.006 min
Lab File: 03232326.D
Acq: 23 Mar 2023 21:14

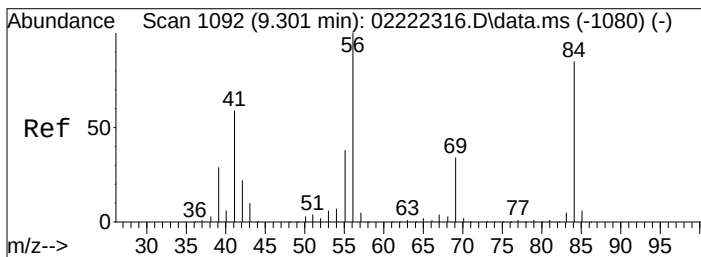
Tgt Ion: 78 Resp: 53750
Ion Ratio Lower Upper
78 100
77 25.8 3.7 43.7



#42
Carbon Tetrachloride
Concen: 0.35 ng m
RT: 9.15 min Scan# 1066
Delta R.T. -0.006 min
Lab File: 03232326.D
Acq: 23 Mar 2023 21:14

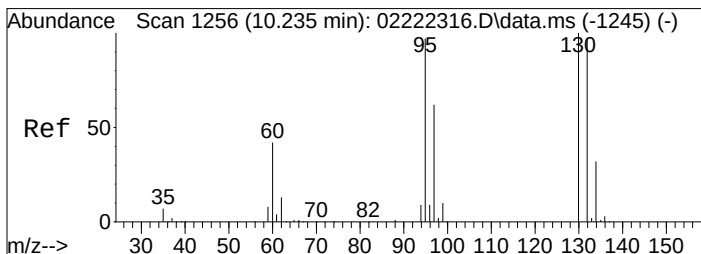
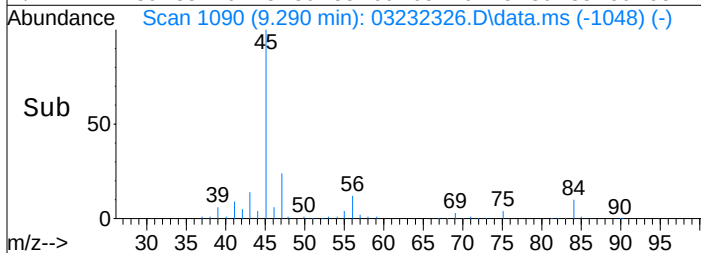
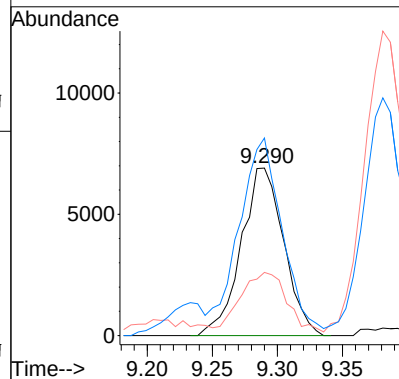
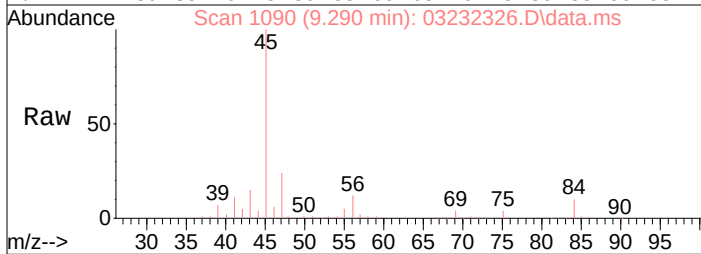
Tgt Ion: 117 Resp: 10917
Ion Ratio Lower Upper
117 100
119 97.7 75.7 115.7





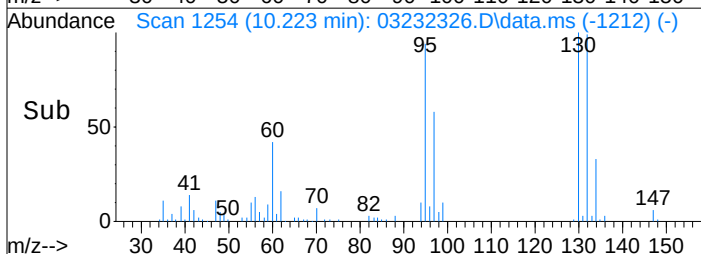
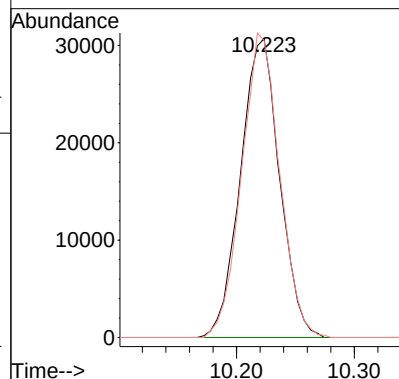
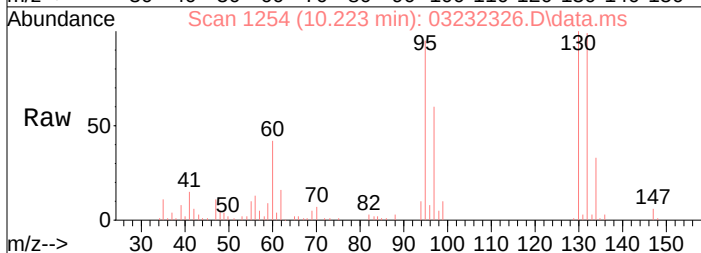
#43
Cyclohexane
Concen: 0.52 ng
RT: 9.29 min Scan# 1090
Delta R.T. -0.011 min
Lab File: 03232326.D
Acq: 23 Mar 2023 21:14

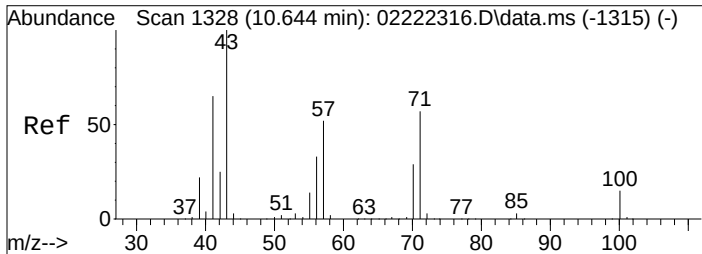
Tgt Ion: 84 Resp: 15730
Ion Ratio Lower Upper
84 100
69 38.5 20.0 60.0
56 110.9 98.5 138.5



#47
Trichloroethene
Concen: 2.93 ng
RT: 10.22 min Scan# 1254
Delta R.T. -0.011 min
Lab File: 03232326.D
Acq: 23 Mar 2023 21:14

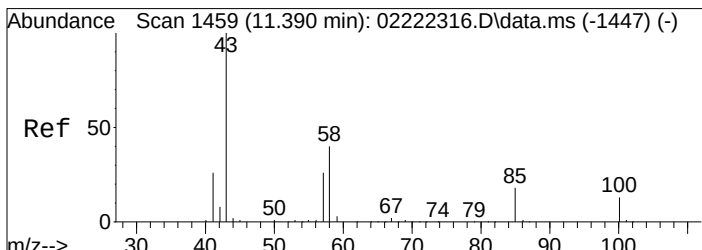
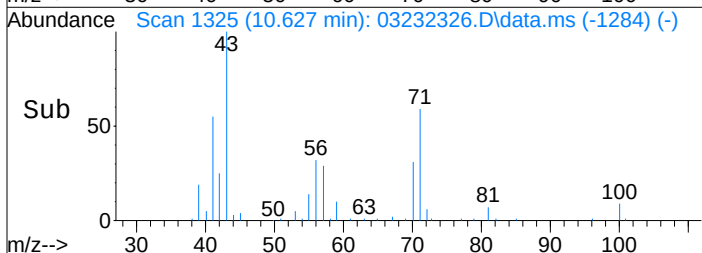
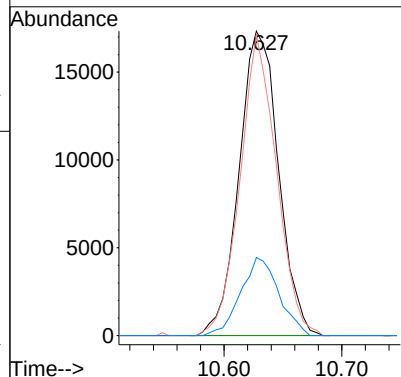
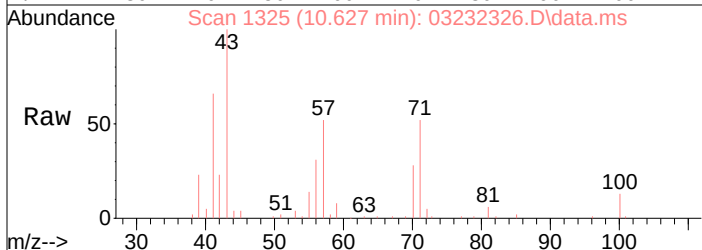
Tgt Ion: 130 Resp: 70824
Ion Ratio Lower Upper
130 100
132 98.8 76.3 116.3





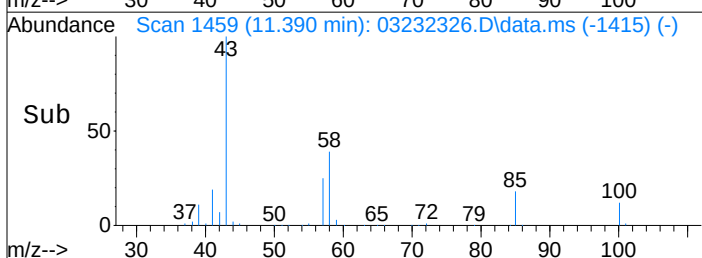
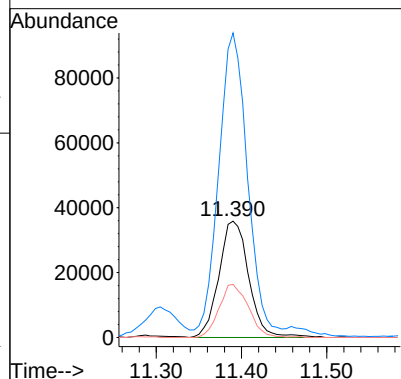
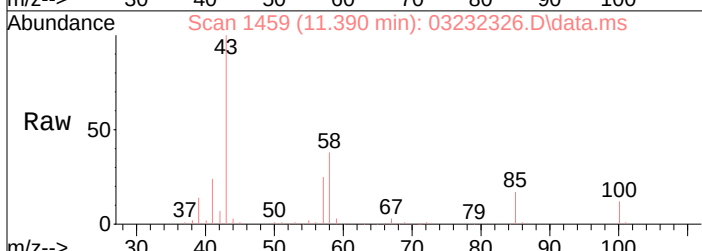
#51
n-Heptane
Concen: 2.02 ng
RT: 10.63 min Scan# 1325
Delta R.T. -0.017 min
Lab File: 03232326.D
Acq: 23 Mar 2023 21:14

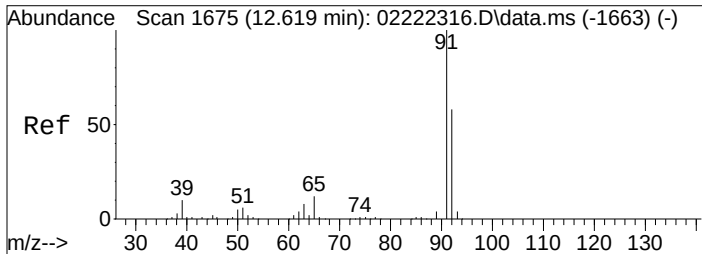
Tgt Ion:	71	Resp:	40389
Ion Ratio	Lower	Upper	
71	100		
57	91.2	71.7	111.7
100	24.8	5.8	45.8



#53
4-Methyl-2-pentanone
Concen: 4.91 ng
RT: 11.39 min Scan# 1459
Delta R.T. -0.000 min
Lab File: 03232326.D
Acq: 23 Mar 2023 21:14

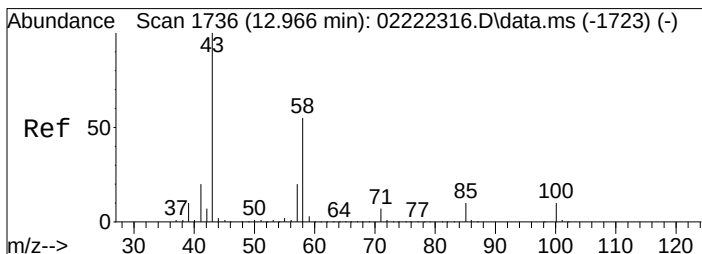
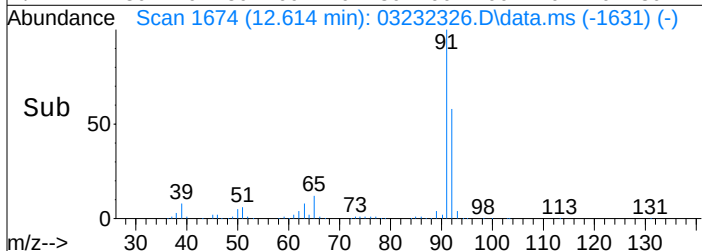
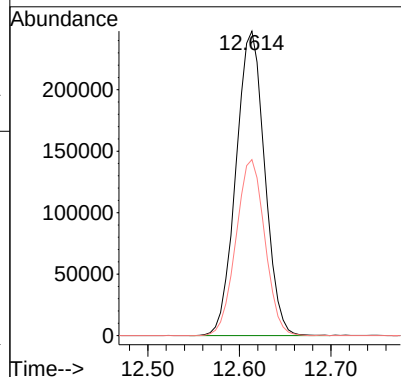
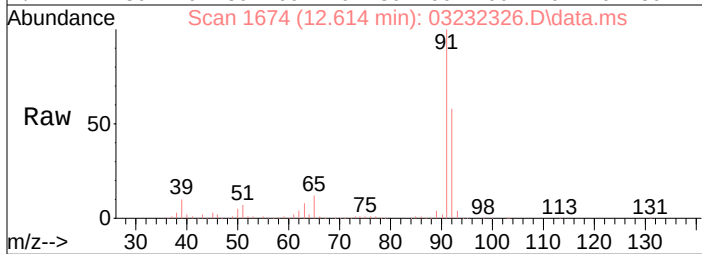
Tgt Ion:	58	Resp:	87403
Ion Ratio	Lower	Upper	
58	100		
85	44.9	38.6	58.0
43	238.8	202.2	303.2





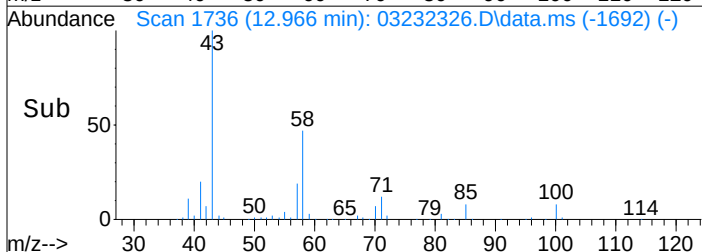
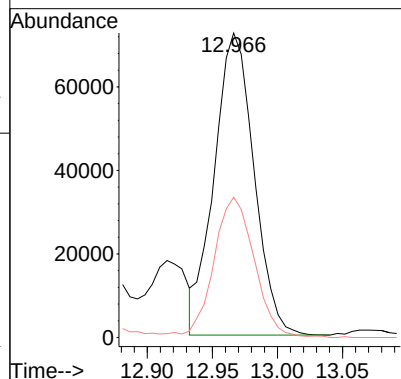
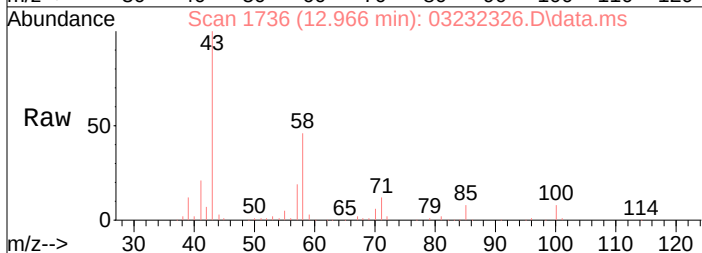
#58
Toluene
Concen: 5.53 ng
RT: 12.61 min Scan# 1674
Delta R.T. -0.006 min
Lab File: 03232326.D
Acq: 23 Mar 2023 21:14

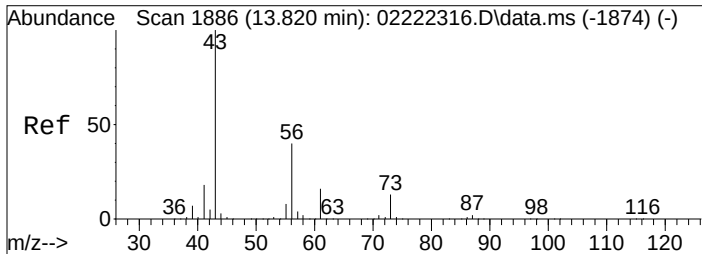
Tgt Ion: 91 Resp: 539876
Ion Ratio Lower Upper
91 100
92 58.1 38.0 78.0



#59
2-Hexanone
Concen: 3.24 ng
RT: 12.97 min Scan# 1736
Delta R.T. -0.000 min
Lab File: 03232326.D
Acq: 23 Mar 2023 21:14

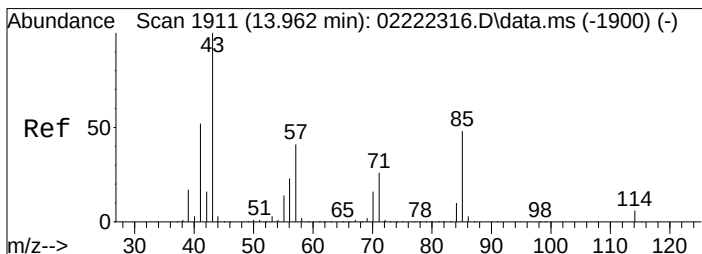
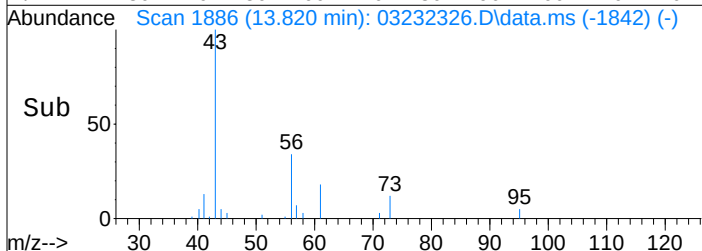
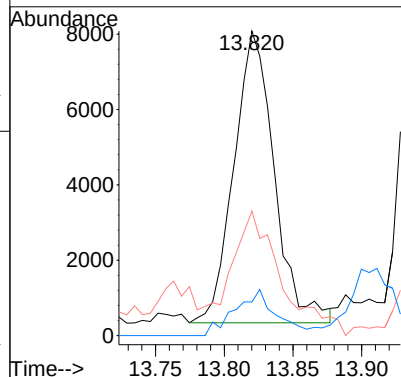
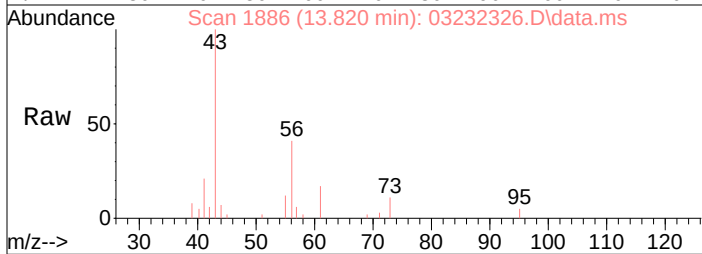
Tgt Ion: 43 Resp: 153576
Ion Ratio Lower Upper
43 100
58 47.4 34.5 74.5





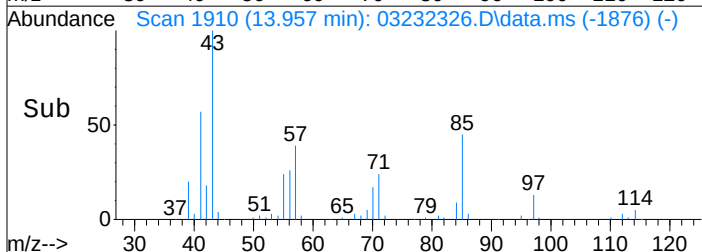
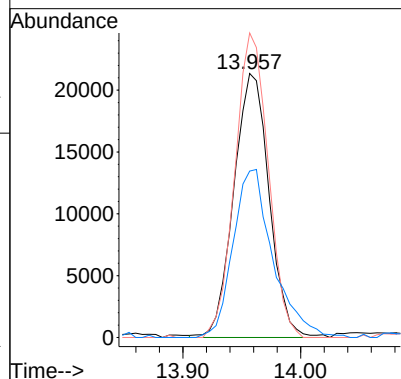
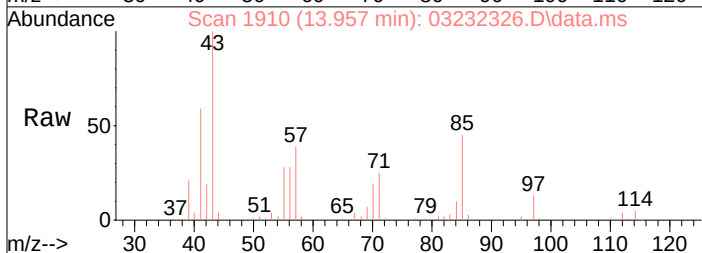
#62
 n-Butyl Acetate
 Concen: 0.29 ng
 RT: 13.82 min Scan# 1886
 Delta R.T. 0.000 min
 Lab File: 03232326.D
 Acq: 23 Mar 2023 21:14

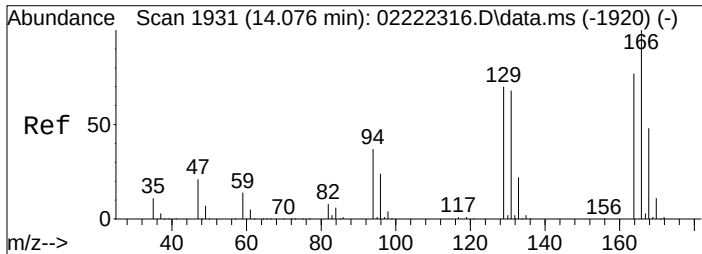
Tgt Ion:	43	Resp:	15849
Ion Ratio		Lower	Upper
43	100		
56	52.8	20.0	60.0
73	15.9	0.0	33.2



#63
 n-Octane
 Concen: 2.32 ng
 RT: 13.96 min Scan# 1910
 Delta R.T. -0.006 min
 Lab File: 03232326.D
 Acq: 23 Mar 2023 21:14

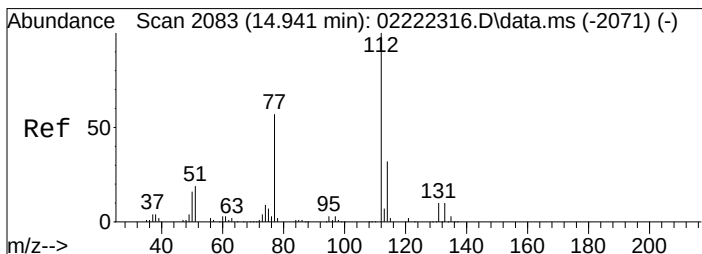
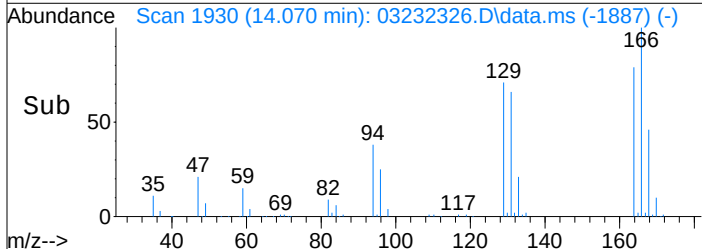
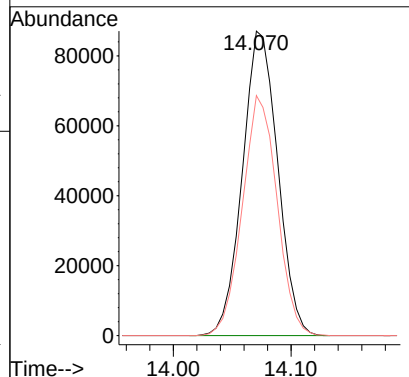
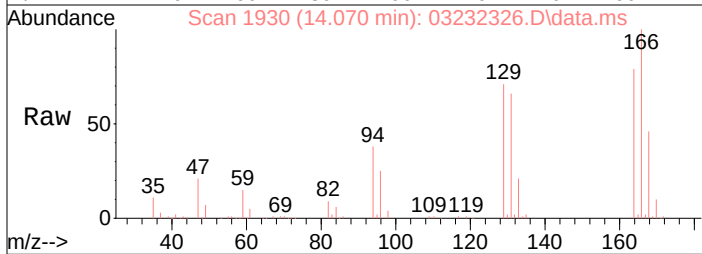
Tgt Ion:	57	Resp:	44565
Ion Ratio		Lower	Upper
57	100		
85	108.8	94.1	141.1
71	71.9	52.6	79.0





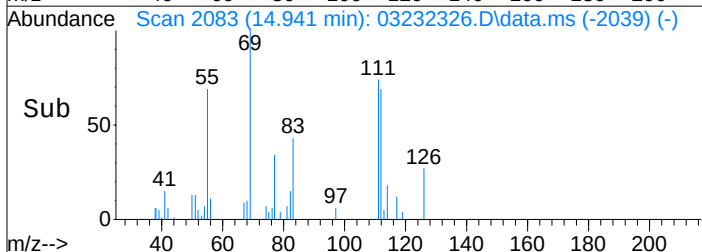
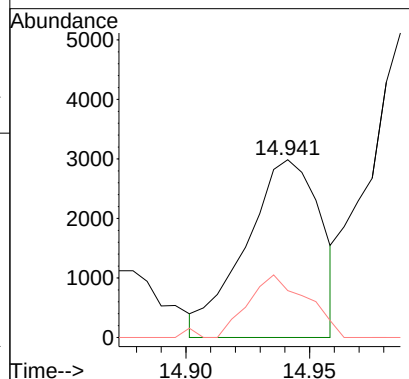
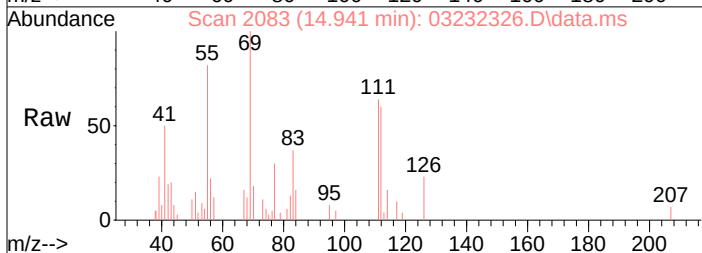
#64
 Tetrachloroethene
 Concen: 6.11 ng
 RT: 14.07 min Scan# 1930
 Delta R.T. -0.006 min
 Lab File: 03232326.D
 Acq: 23 Mar 2023 21:14

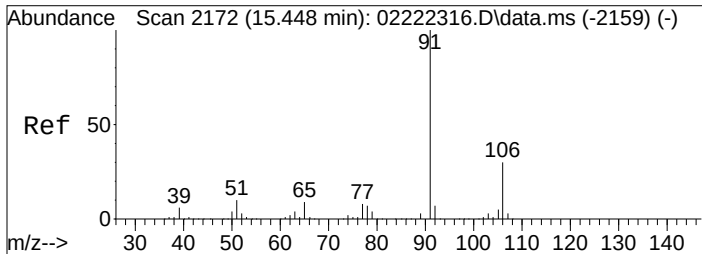
Tgt Ion:	166	Resp:	181614
Ion Ratio	Lower	Upper	
166	100		
164	77.5	57.3	97.3



#65
 Chlorobenzene
 Concen: 0.10 ng
 RT: 14.94 min Scan# 2083
 Delta R.T. 0.000 min
 Lab File: 03232326.D
 Acq: 23 Mar 2023 21:14

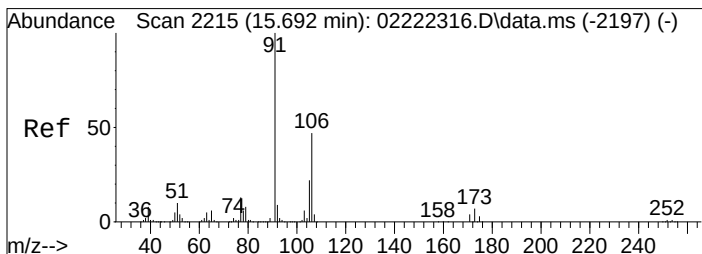
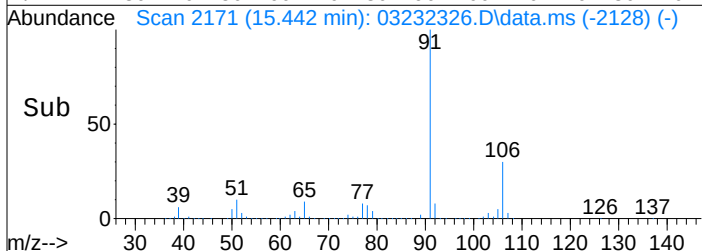
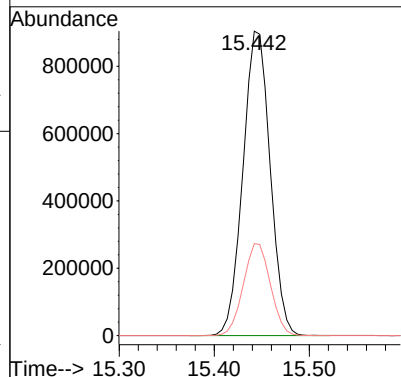
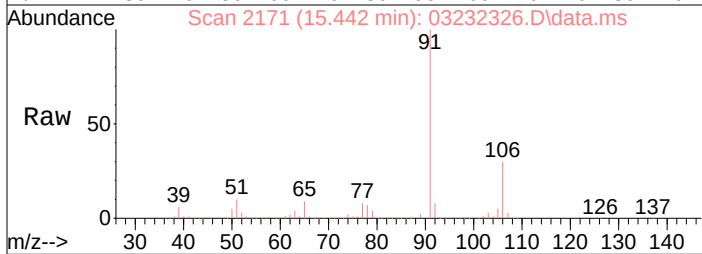
Tgt Ion:	112	Resp:	6274
Ion Ratio	Lower	Upper	
112	100		
114	27.8	12.1	52.1





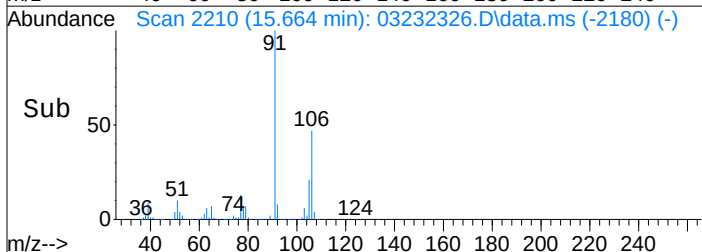
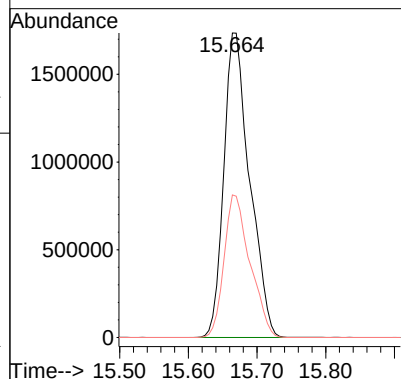
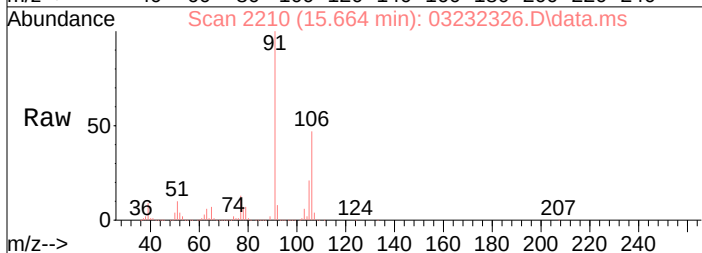
#66
Ethylbenzene
Concen: 15.43 ng
RT: 15.44 min Scan# 2171
Delta R.T. -0.006 min
Lab File: 03232326.D
Acq: 23 Mar 2023 21:14

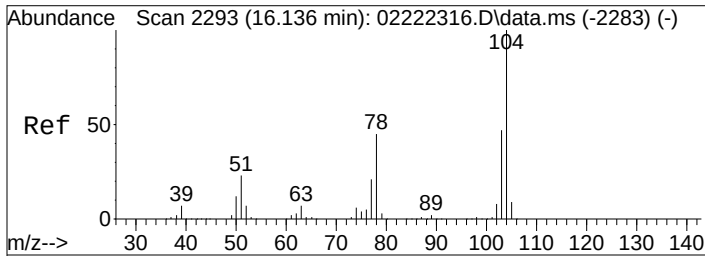
Tgt Ion: 91 Resp: 1797914
Ion Ratio Lower Upper
91 100
106 30.0 10.4 50.4



#67
m- & p-Xylenes
Concen: 48.40 ng
RT: 15.66 min Scan# 2210
Delta R.T. -0.028 min
Lab File: 03232326.D
Acq: 23 Mar 2023 21:14

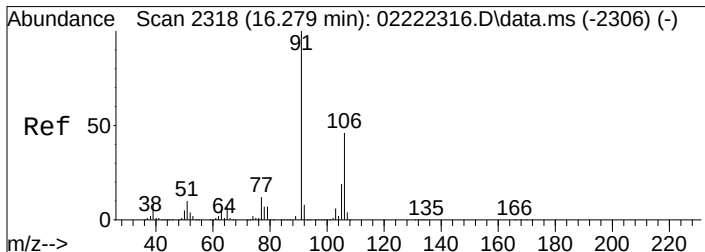
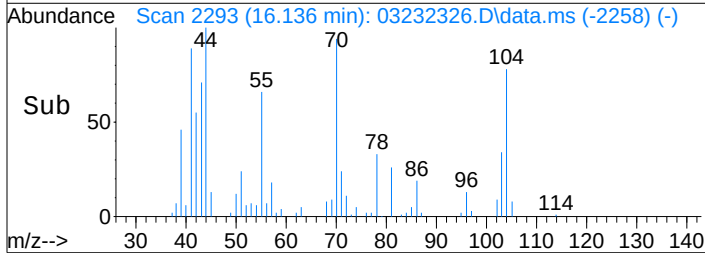
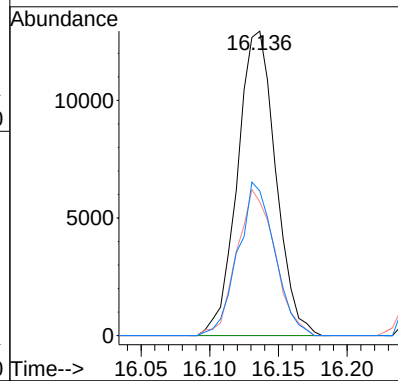
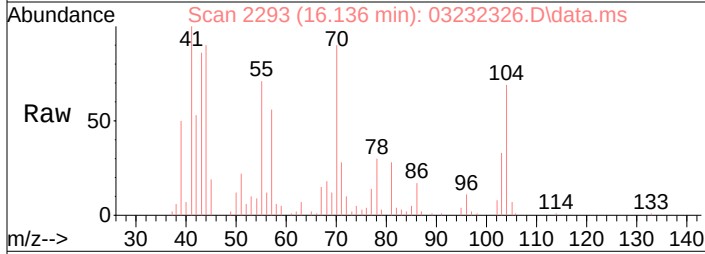
Tgt Ion: 91 Resp: 4539025
Ion Ratio Lower Upper
91 100
106 47.0 26.2 66.2





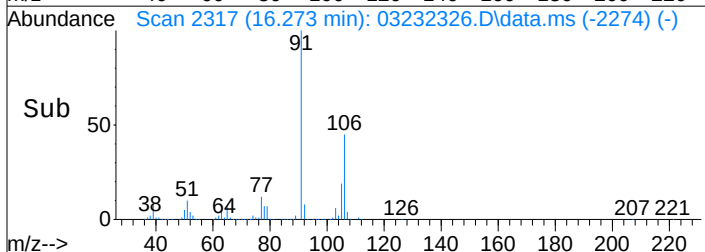
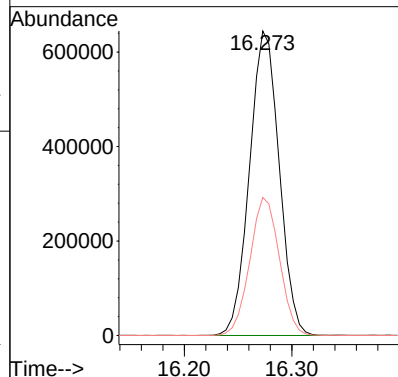
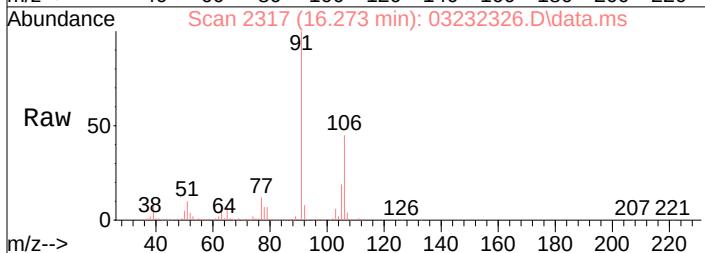
#69
Styrene
Concen: 0.39 ng
RT: 16.14 min Scan# 2293
Delta R.T. 0.000 min
Lab File: 03232326.D
Acq: 23 Mar 2023 21:14

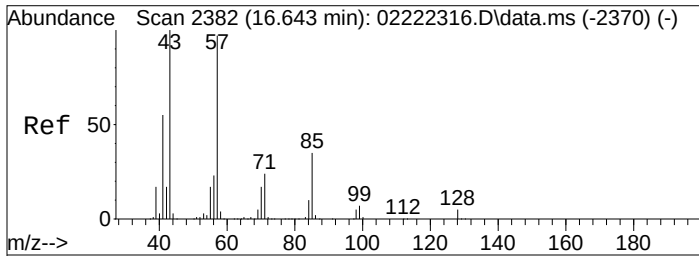
Tgt Ion	Ratio	Resp	Lower	Upper
104	100	25075		
78	47.9	24.7	64.7	
103	48.3	27.8	67.8	



#70
o-Xylene
Concen: 13.78 ng
RT: 16.27 min Scan# 2317
Delta R.T. -0.006 min
Lab File: 03232326.D
Acq: 23 Mar 2023 21:14

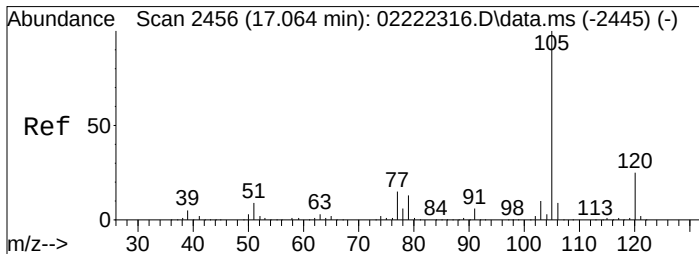
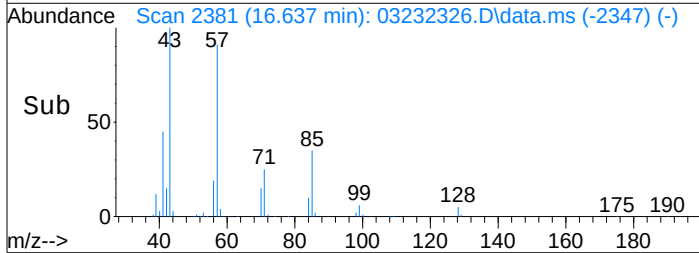
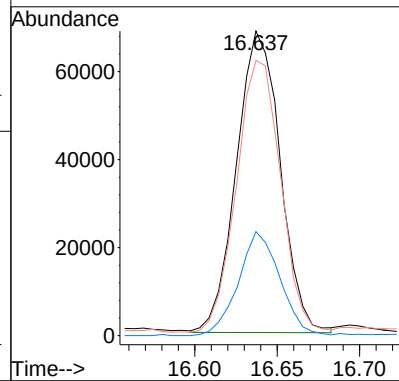
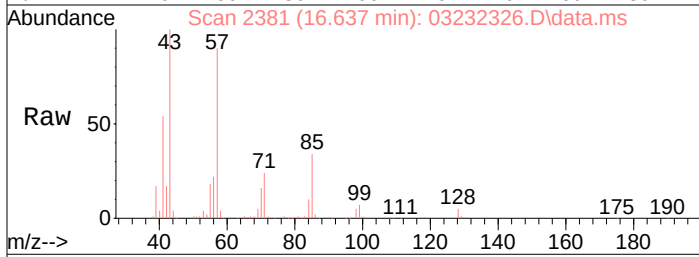
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	1235973		
106	45.2	25.4	65.4	





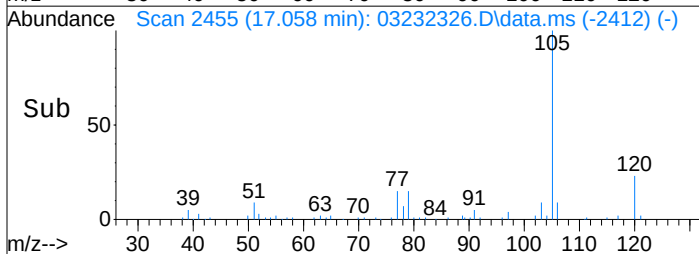
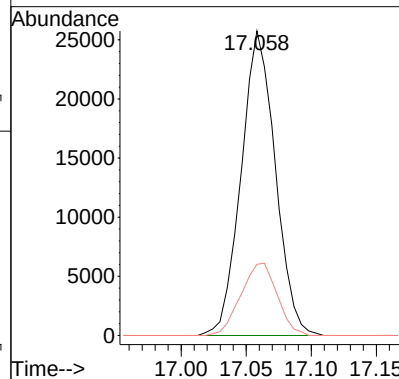
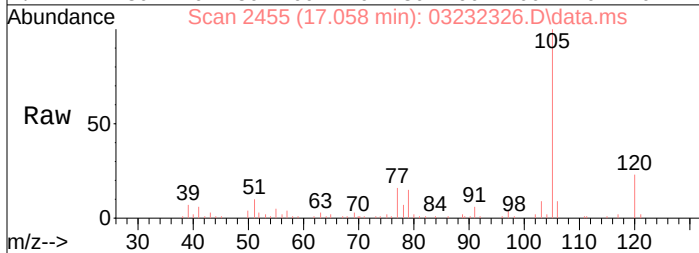
#71
n-Nonane
Concen: 2.92 ng
RT: 16.64 min Scan# 2381
Delta R.T. -0.006 min
Lab File: 03232326.D
Acq: 23 Mar 2023 21:14

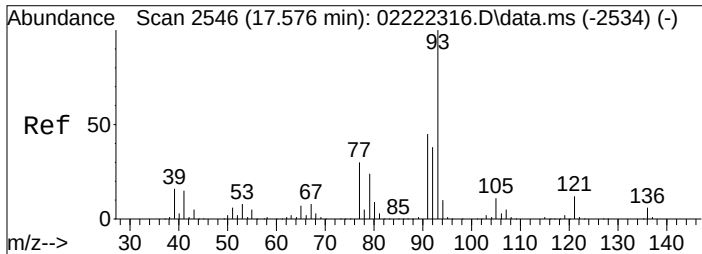
Tgt Ion:	43	Resp:	126868
Ion Ratio		Lower	Upper
43	100		
57	90.9	74.2	114.2
85	32.6	14.2	54.2



#74
Cumene
Concen: 0.43 ng
RT: 17.06 min Scan# 2455
Delta R.T. -0.006 min
Lab File: 03232326.D
Acq: 23 Mar 2023 21:14

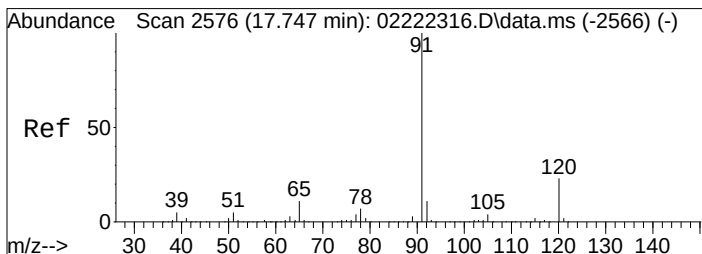
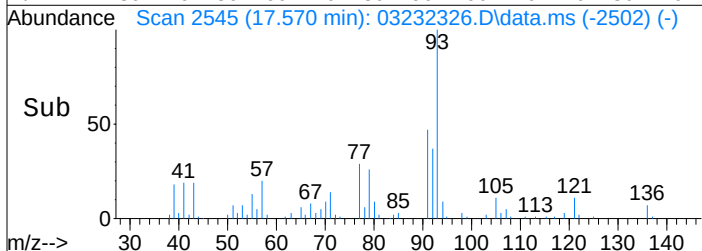
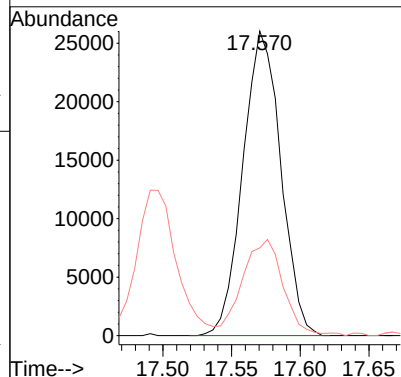
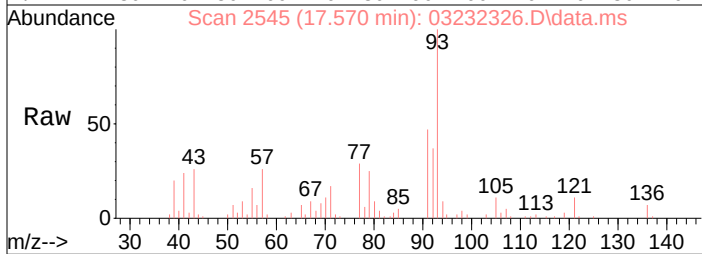
Tgt Ion:	105	Resp:	46905
Ion Ratio		Lower	Upper
105	100		
120	25.2	5.2	45.2





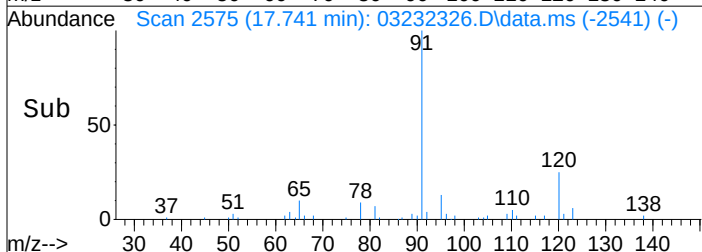
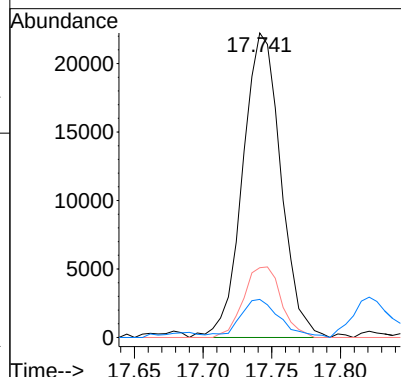
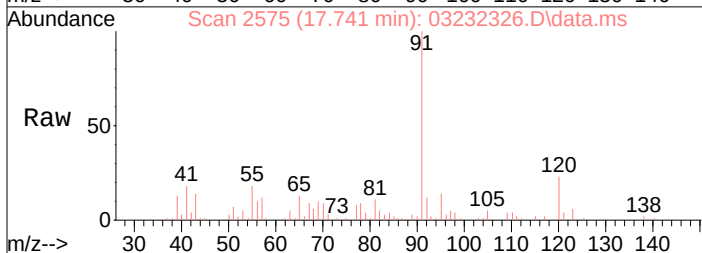
#75
 alpha-Pinene
 Concen: 0.99 ng
 RT: 17.57 min Scan# 2545
 Delta R.T. -0.006 min
 Lab File: 03232326.D
 Acq: 23 Mar 2023 21:14

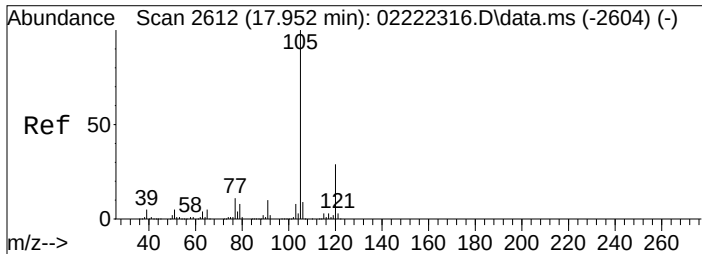
Tgt Ion	93	77	Resp	50072	Lower	Upper
Ion Ratio	100	34.1				
		11.1				51.1



#76
 n-Propylbenzene
 Concen: 0.33 ng
 RT: 17.74 min Scan# 2575
 Delta R.T. -0.006 min
 Lab File: 03232326.D
 Acq: 23 Mar 2023 21:14

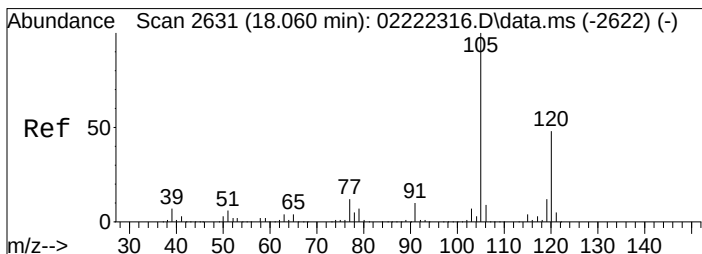
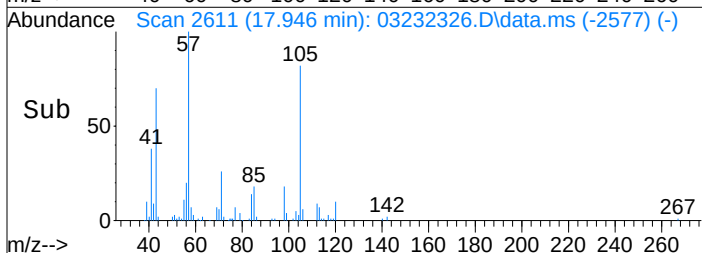
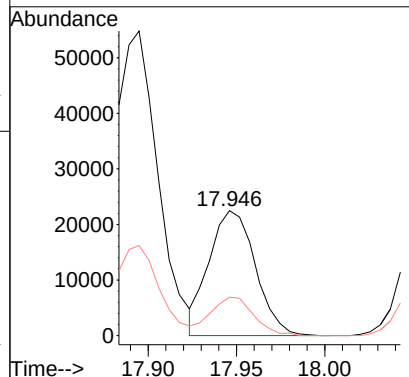
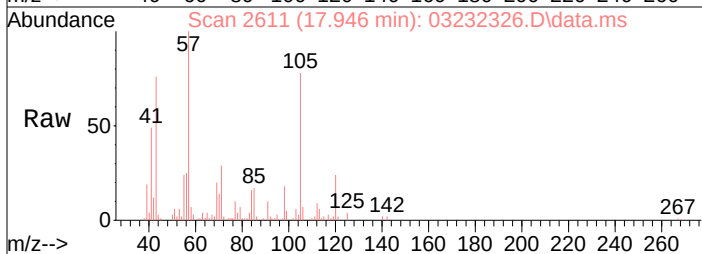
Tgt Ion	91	120	65	Resp	42845	Lower	Upper
Ion Ratio	100	22.9	13.1				
		2.7	0.0				30.7





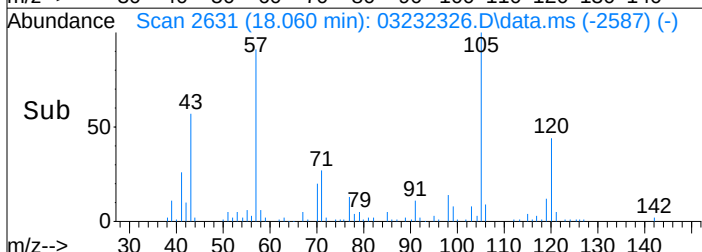
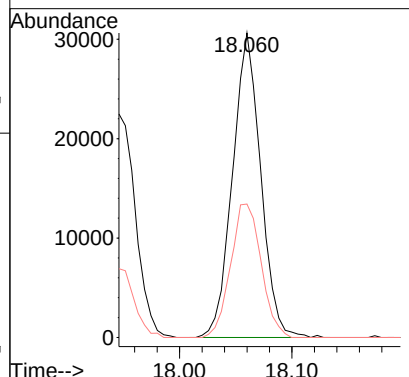
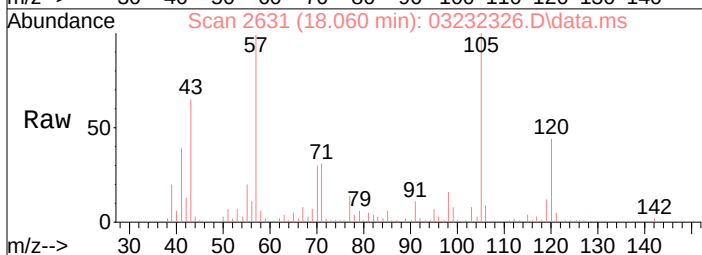
#78
 4-Ethyltoluene
 Concen: 0.39 ng
 RT: 17.95 min Scan# 2611
 Delta R.T. -0.006 min
 Lab File: 03232326.D
 Acq: 23 Mar 2023 21:14

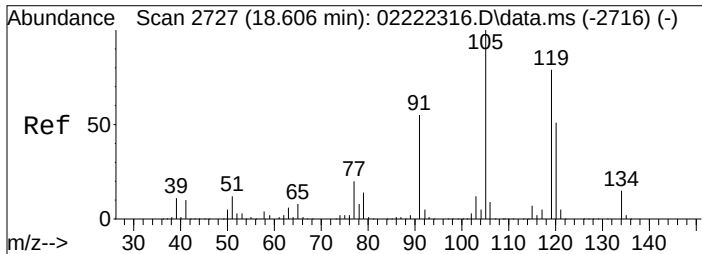
Tgt Ion:105	Resp:	40991
Ion Ratio	Lower	Upper
105	100	
120	28.8	9.1 49.1



#79
 1,3,5-Trimethylbenzene
 Concen: 0.58 ng
 RT: 18.06 min Scan# 2631
 Delta R.T. -0.000 min
 Lab File: 03232326.D
 Acq: 23 Mar 2023 21:14

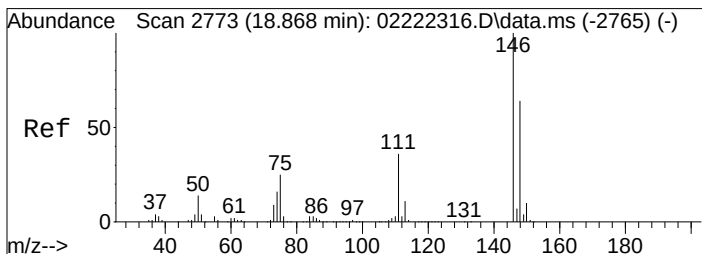
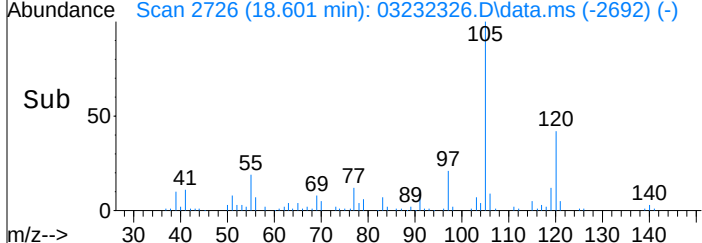
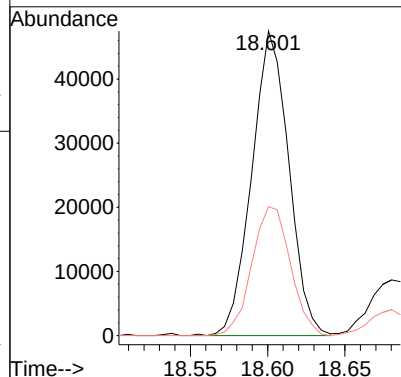
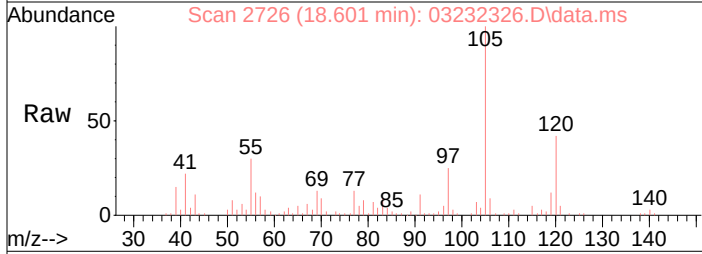
Tgt Ion:105	Resp:	53416
Ion Ratio	Lower	Upper
105	100	
120	47.6	28.4 68.4





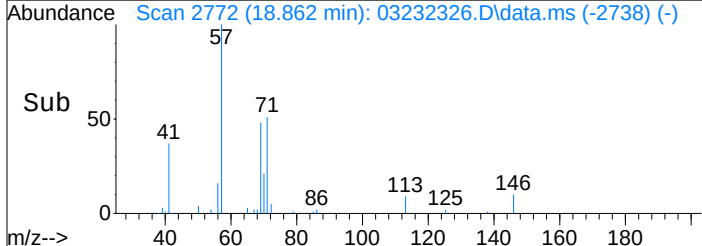
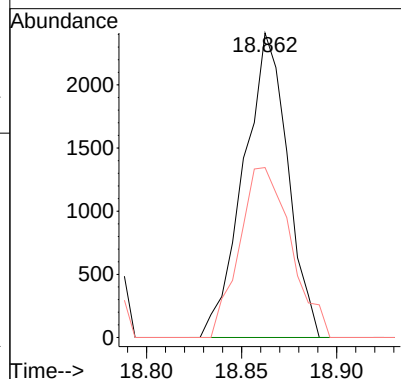
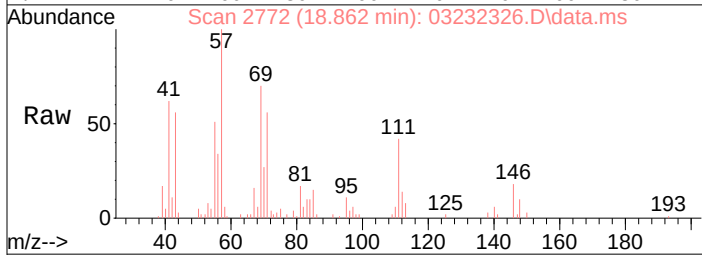
#82
 1,2,4-Trimethylbenzene
 Concen: 0.87 ng
 RT: 18.60 min Scan# 2726
 Delta R.T. -0.006 min
 Lab File: 03232326.D
 Acq: 23 Mar 2023 21:14

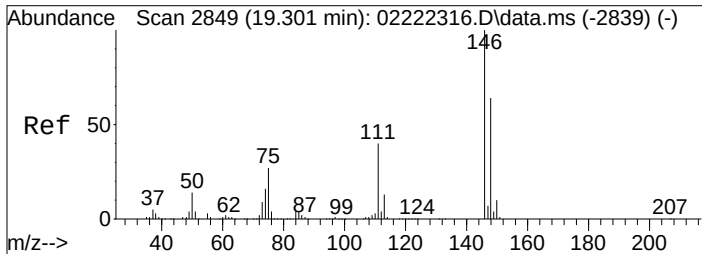
Tgt Ion	105	Resp	79299
Ion Ratio	Lower	Upper	
105	100		
120	44.1	32.8	72.8



#86
 1,4-Dichlorobenzene
 Concen: 0.07 ng
 RT: 18.86 min Scan# 2772
 Delta R.T. -0.006 min
 Lab File: 03232326.D
 Acq: 23 Mar 2023 21:14

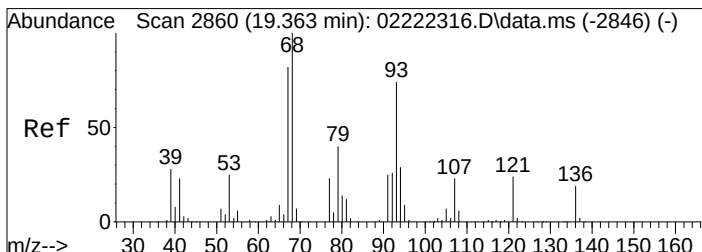
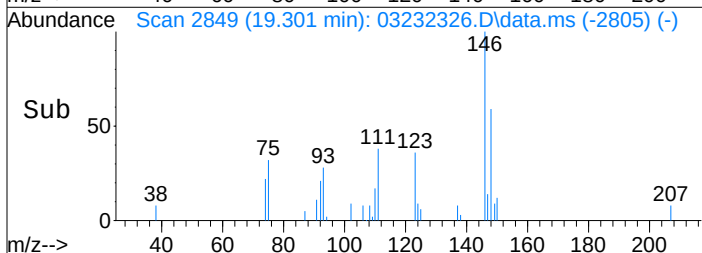
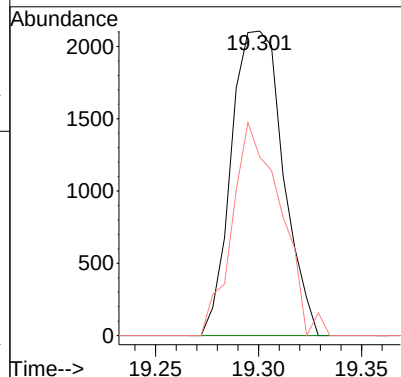
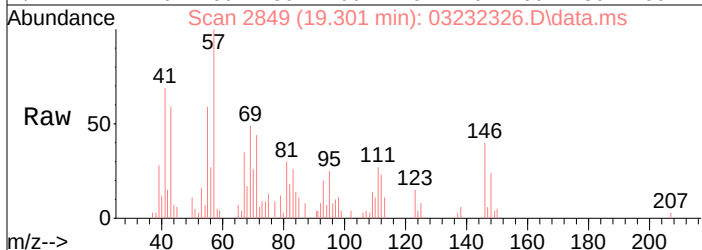
Tgt Ion	146	Resp	3882
Ion Ratio	Lower	Upper	
146	100		
148	65.5	44.7	84.7





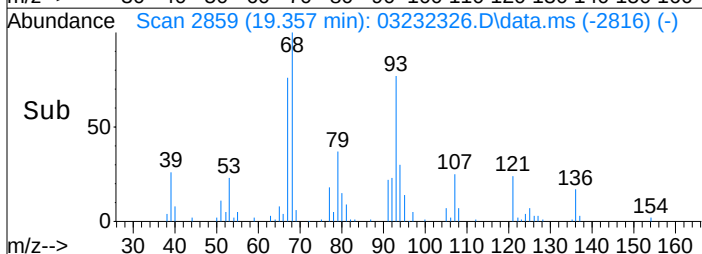
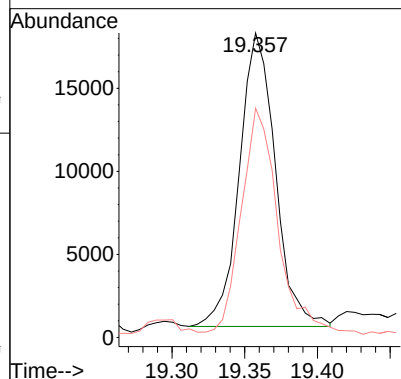
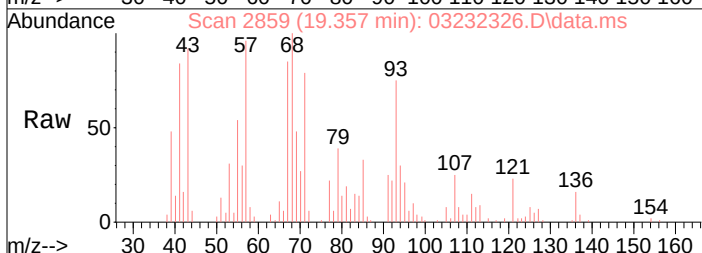
#90
 1,2-Dichlorobenzene
 Concen: 0.07 ng
 RT: 19.30 min Scan# 2849
 Delta R.T. -0.000 min
 Lab File: 03232326.D
 Acq: 23 Mar 2023 21:14

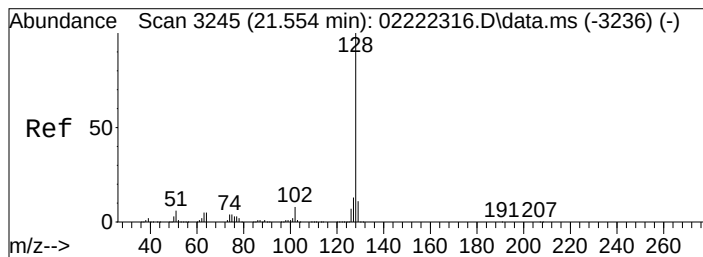
Tgt Ion:	146	Resp:	3676
Ion Ratio	Lower	Upper	
146	100		
148	65.7	44.4	84.4



#91
 d-Limonene
 Concen: 0.98 ng
 RT: 19.36 min Scan# 2859
 Delta R.T. -0.006 min
 Lab File: 03232326.D
 Acq: 23 Mar 2023 21:14

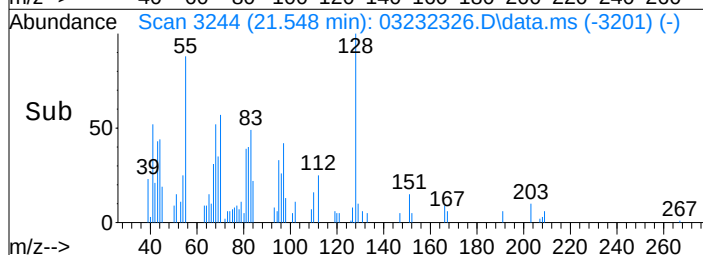
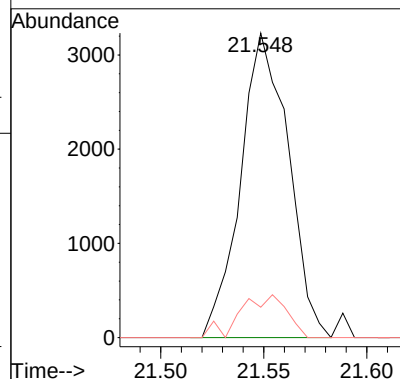
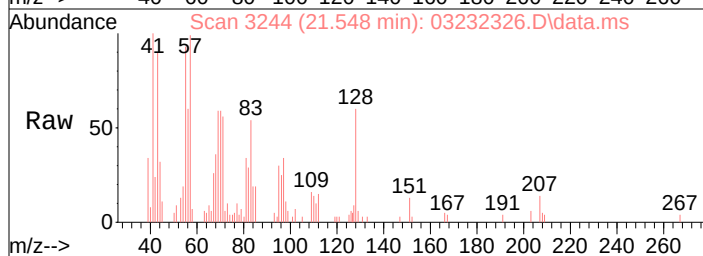
Tgt Ion:	68	Resp:	30350
Ion Ratio	Lower	Upper	
68	100		
93	79.0	54.8	94.8





#95
 Naphthalene
 Concen: 0.05 ng
 RT: 21.55 min Scan# 3244
 Delta R.T. -0.006 min
 Lab File: 03232326.D
 Acq: 23 Mar 2023 21:14

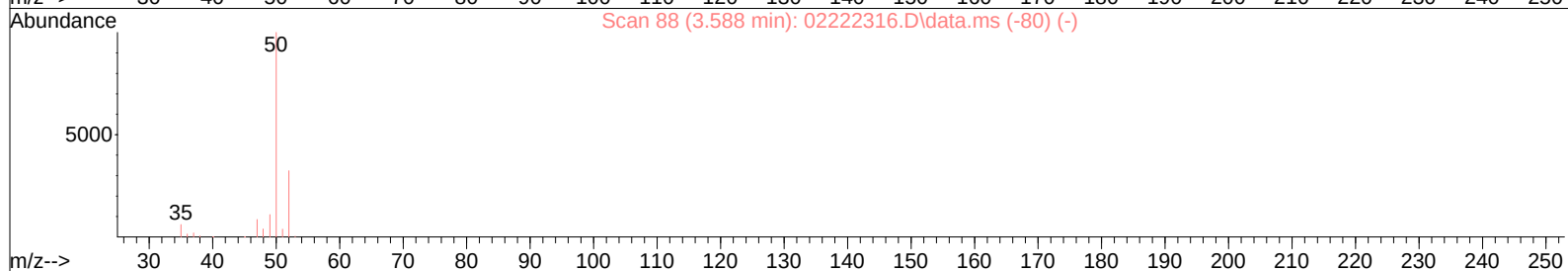
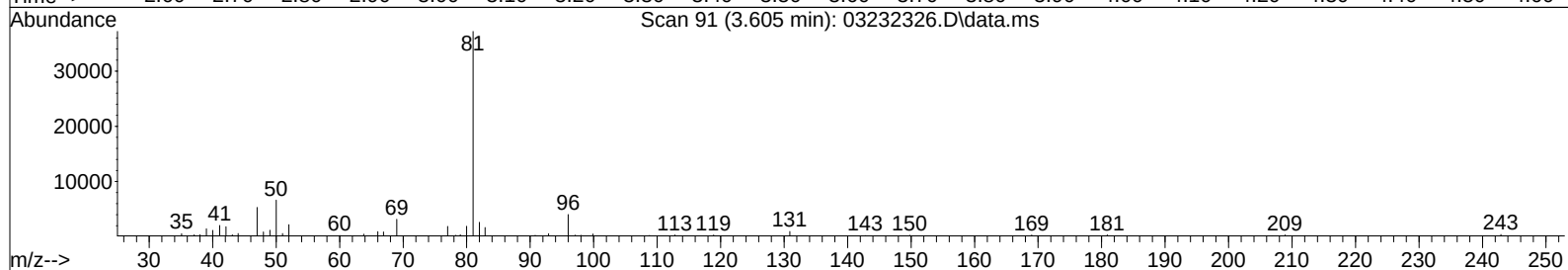
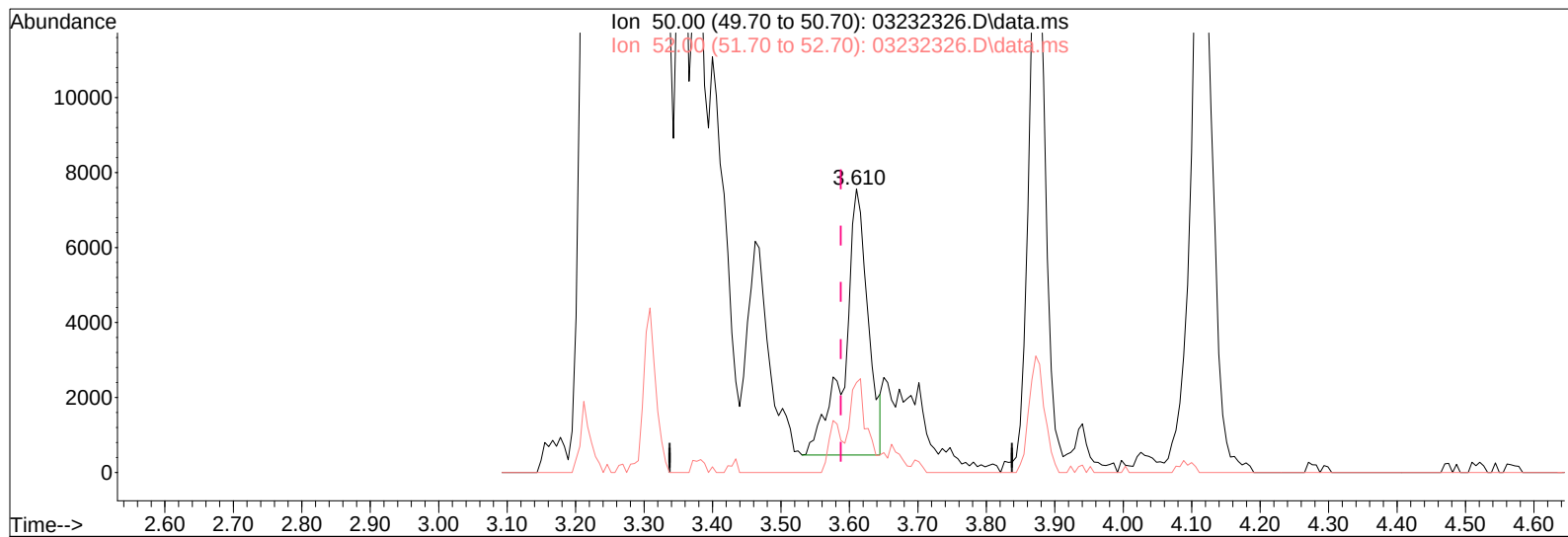
Tgt Ion:128 Resp: 5207
 Ion Ratio Lower Upper
 128 100
 129 13.8 0.0 30.9



Data File : I:\MS13\DATA\2023_03\23\03232326.D
Acq On : 23 Mar 2023 21:14
Sample : P2301250-002 (1000mL)
Misc : S35-01202301

Vial: 9
Operator: TZ
Inst : MS13

Quant Time: Mar 24 07:43:19 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03232326.D\data.ms

(4) Chloromethane (T)

3.610min (+0.023) 0.53ng

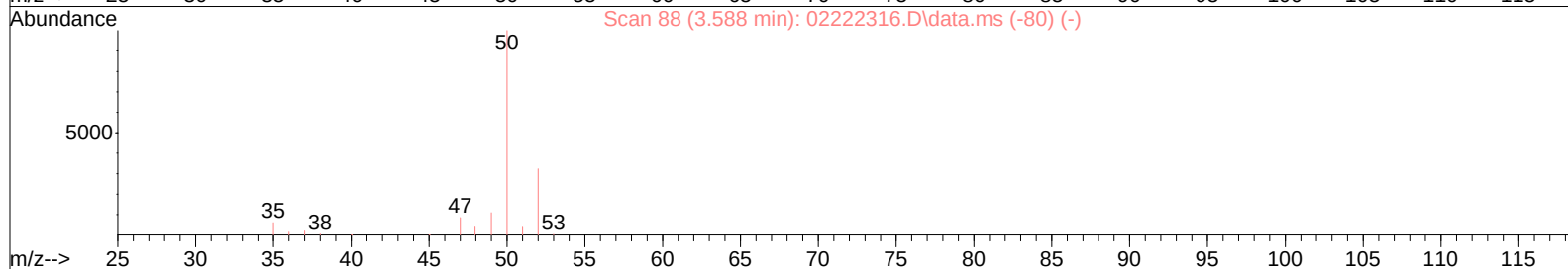
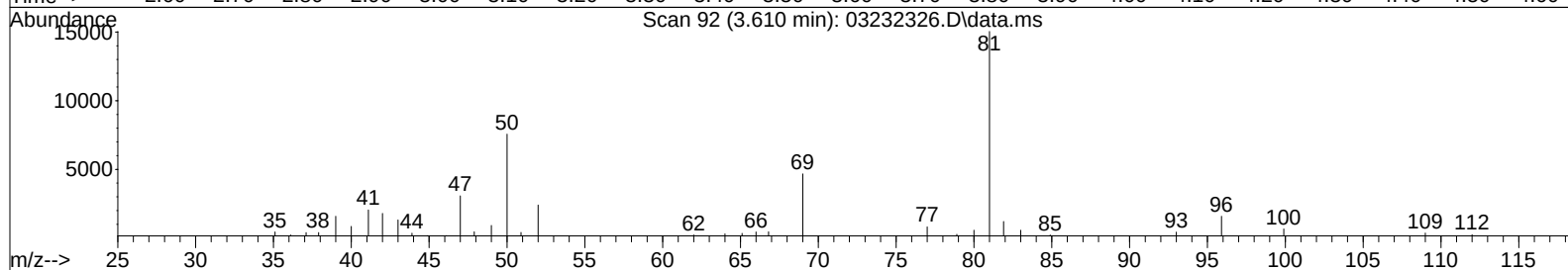
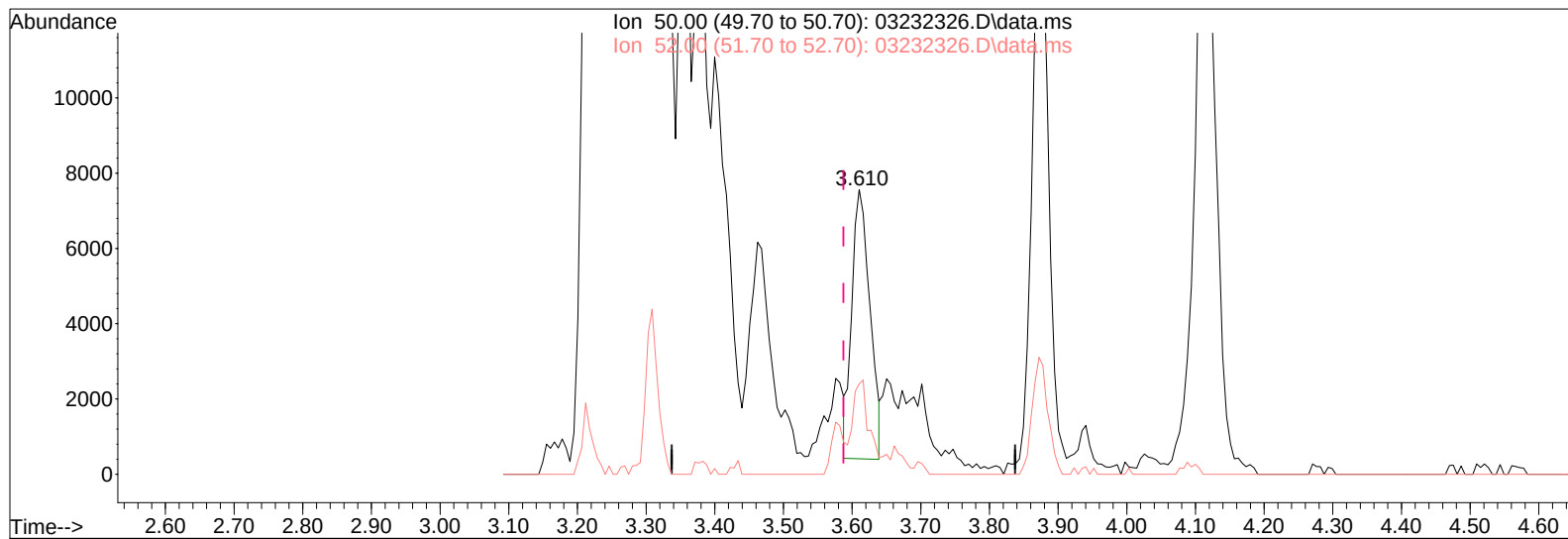
response 17014

Ion	Exp%	Act%
50.00	100	100
52.00	33.00	24.87
0.00	0.00	0.00
0.00	0.00	0.00

Data File : I:\MS13\DATA\2023_03\23\03232326.D
Acq On : 23 Mar 2023 21:14
Sample : P2301250-002 (1000mL)
Misc : S35-01202301

Vial: 9
Operator: TZ
Inst : MS13

Quant Time: Mar 24 07:43:19 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03232326.D\data.ms

(4) Chloromethane (T)

3.610min (+0.023) 0.41ng m

response 13058

IPC

Ion	Exp%	Act%
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50.00	100	100
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52.00	33.00	32.41
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0.00	0.00	0.00
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0.00	0.00	0.00
------	------	------

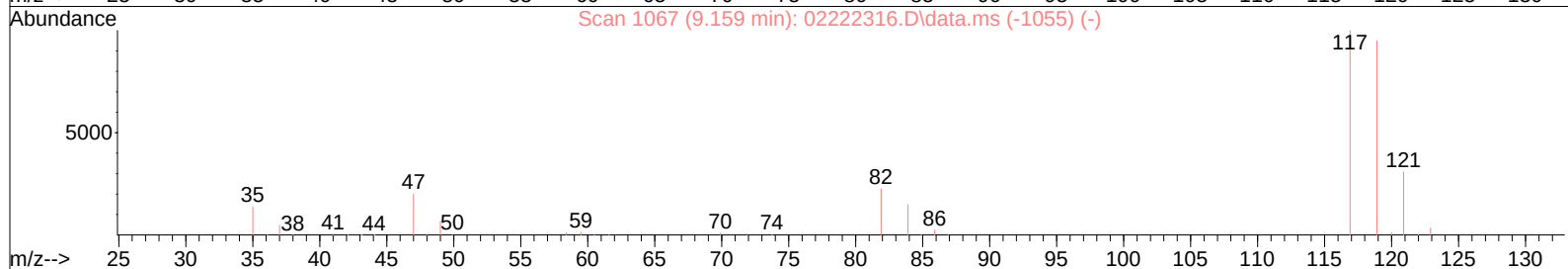
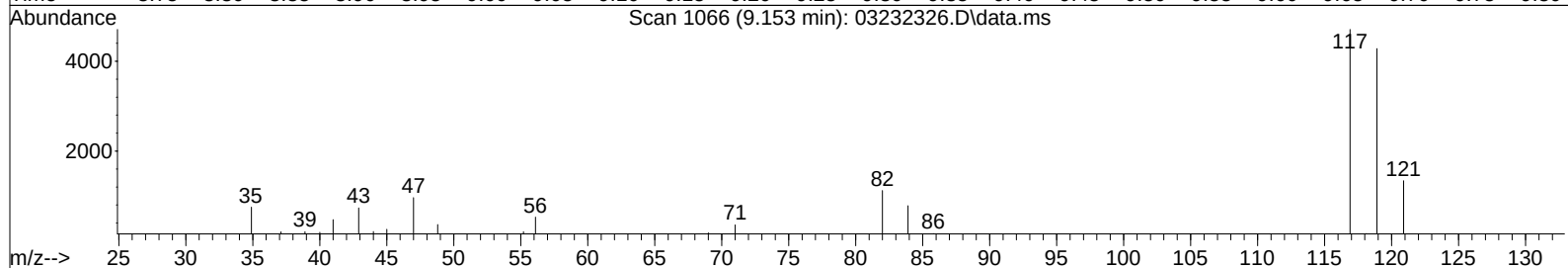
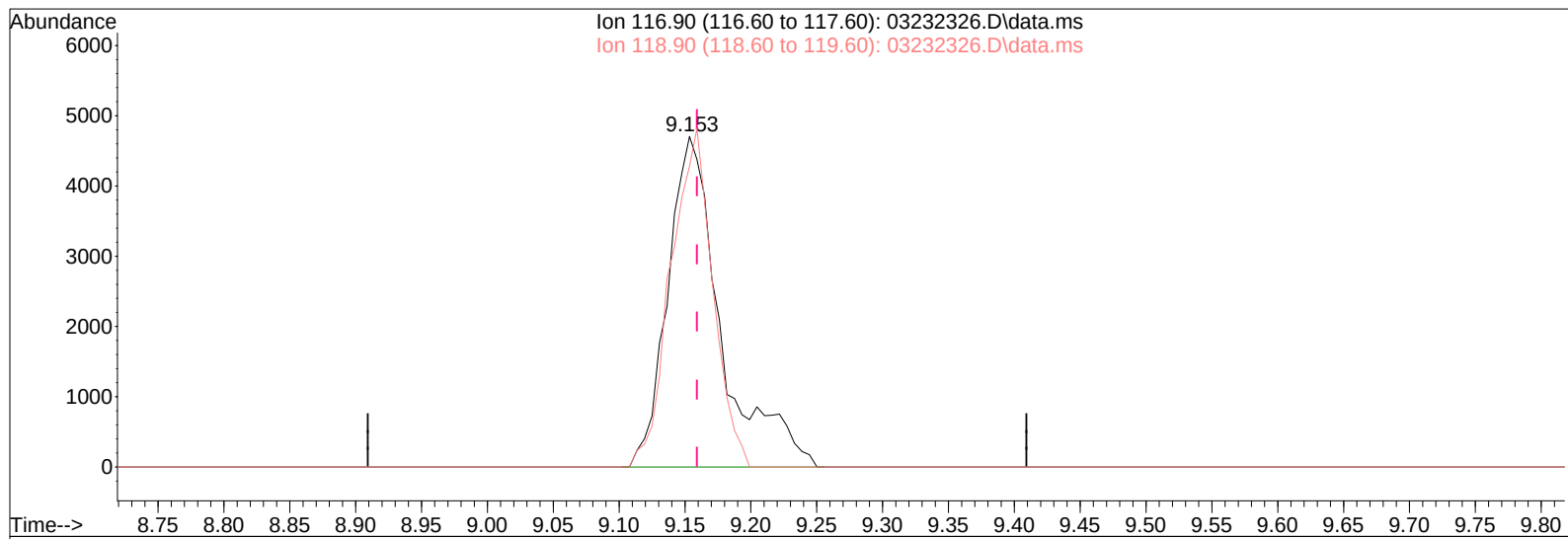
TZ 3/27/23

3/28/23

Data File : I:\MS13\DATA\2023_03\23\03232326.D
Acq On : 23 Mar 2023 21:14
Sample : P2301250-002 (1000mL)
Misc : S35-01202301

Vial: 9
Operator: TZ
Inst : MS13

Quant Time: Mar 27 08:45:46 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03232326.D\data.ms

(42) Carbon Tetrachloride (T)

9.153min (-0.006) 0.43ng

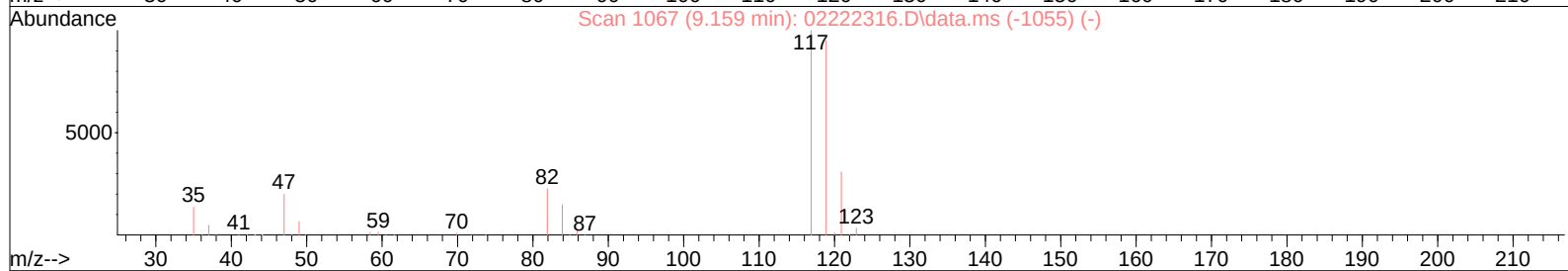
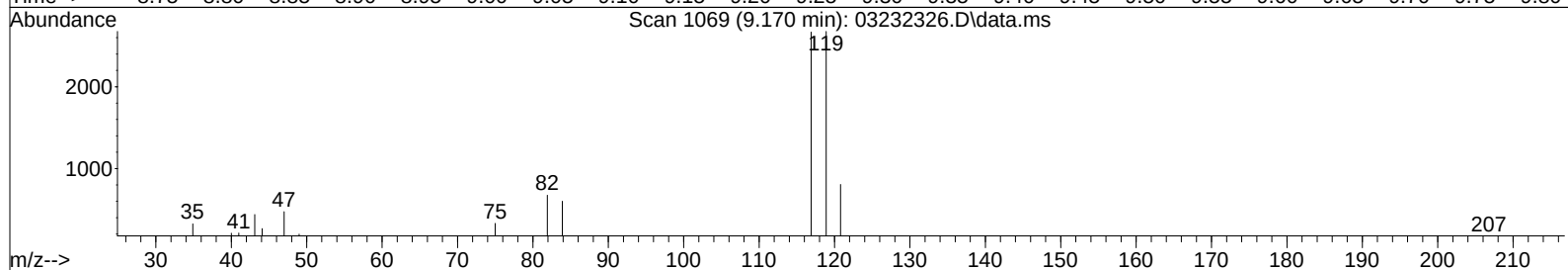
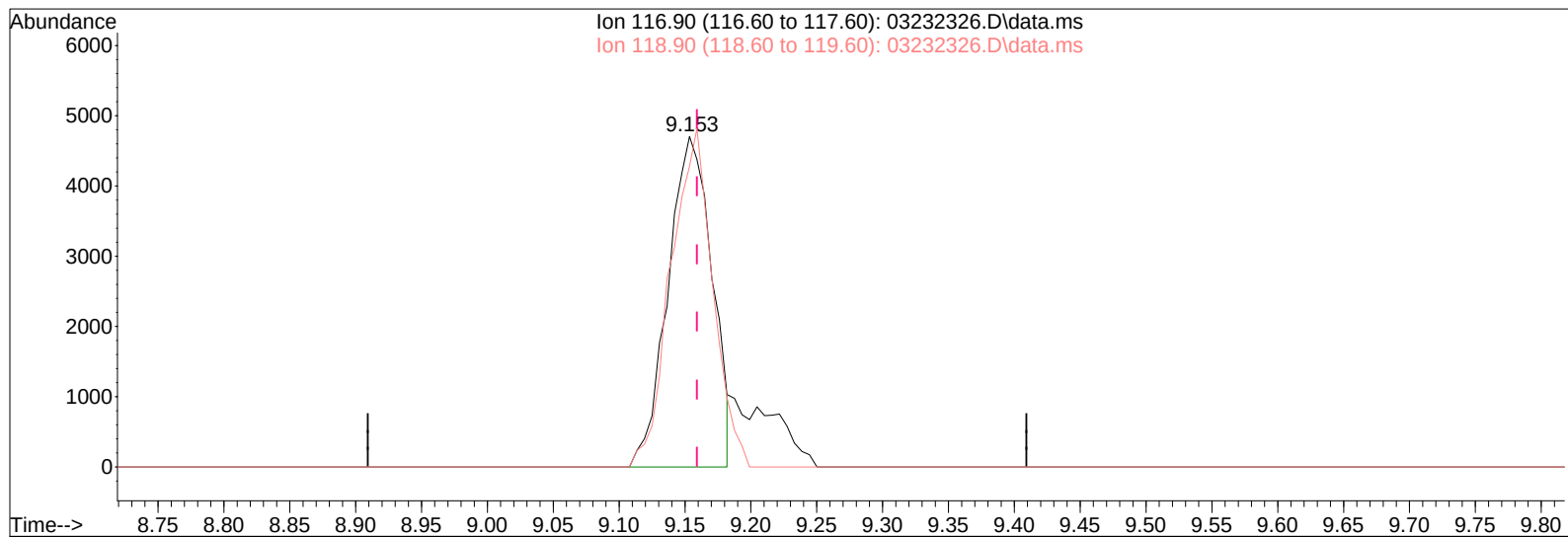
response 13234

Ion	Exp%	Act%
116.90	100	100
118.90	95.70	80.61
0.00	0.00	0.00
0.00	0.00	0.00

Data File : I:\MS13\DATA\2023_03\23\03232326.D
Acq On : 23 Mar 2023 21:14
Sample : P2301250-002 (1000mL)
Misc : S35-01202301

Vial: 9
Operator: TZ
Inst : MS13

Quant Time: Mar 27 08:45:46 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03232326.D\data.ms

(42) Carbon Tetrachloride (T)

9.153min (-0.006) 0.35ng m

response 10917

IPC

Ion	Exp%	Act%
-----	------	------

116.90	100	100
--------	-----	-----

118.90	95.70	97.72
--------	-------	-------

0.00	0.00	0.00
------	------	------

0.00	0.00	0.00
------	------	------

TZ 3/27/23

3/28/23

Data File : I:\MS13\DATA\2023_03\23\03232326.D
 Acq On : 23 Mar 2023 21:14
 Sample : P2301250-002 (1000mL)
 Misc : S35-01202301

Vial: 9
 Operator: TZ
 Inst : MS13

TZ 3/27/23

Quant Time: Mar 27 15:15:48 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.34	130	241917	12.500	ng	0.02
16) 1,4-Difluorobenzene (C_2)	9.38	114	1062024	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	14.88	54	199519	12.500	ng	0.00

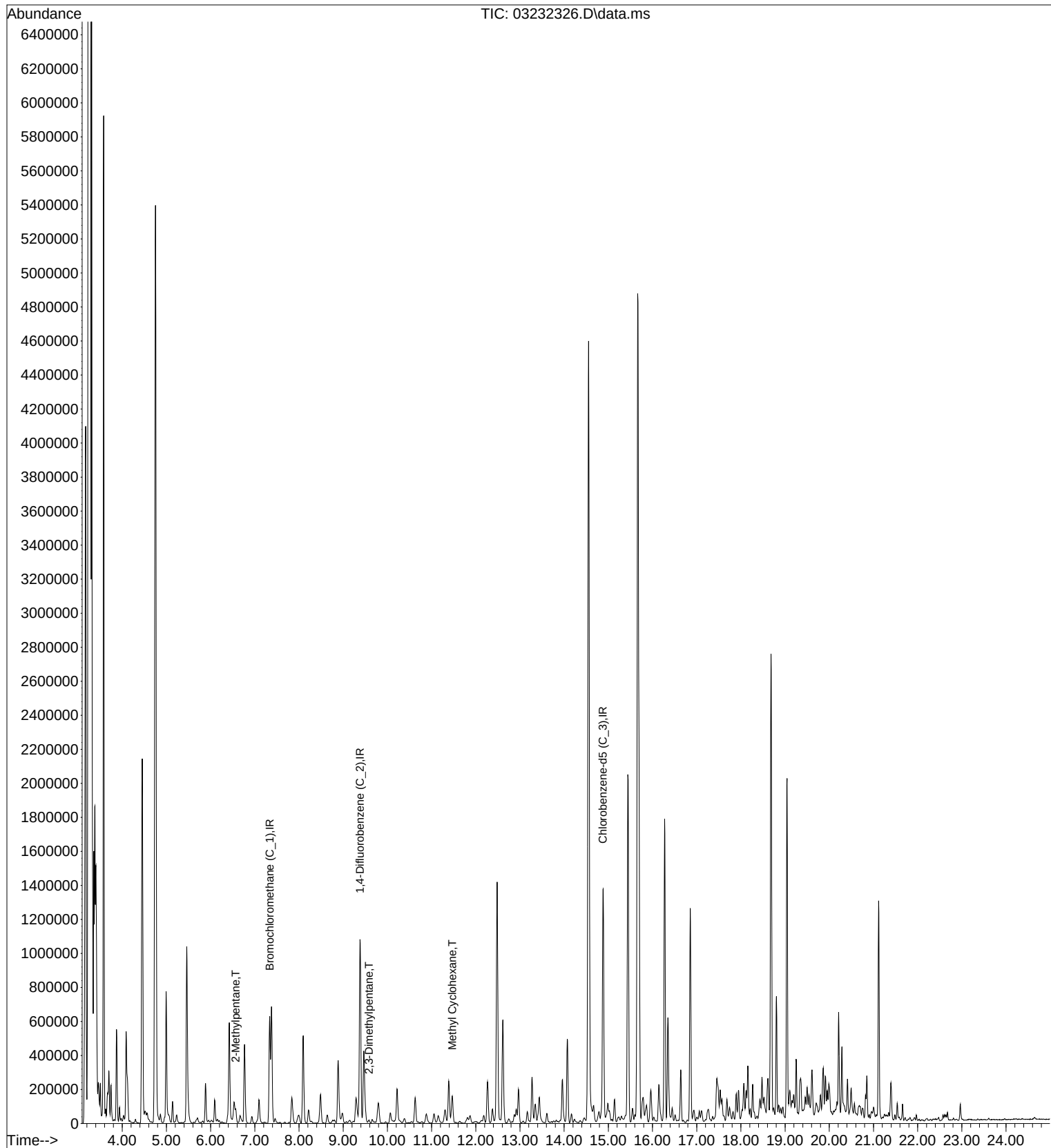
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	0.00	85	0	N.D.	d	
3) 1,1,1,2-Tetrafluoroeth...	0.00	83	0	N.D.	d	
4) 1,1-Difluoroethane	0.00	65	0	N.D.	d	
5) Chlorodifluoromethane ...	0.00	67	0	N.D.	d	
6) 1-Chloro-1,1-Difluoroe...	3.62	65	2362	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	4.67	83	472	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	0.00	43	0	N.D.	d	
12) 2-Methylpentane	6.57	71	16275	0.963	ng	# 35
13) 2,2-Dichloropropane	7.54	77	59	N.D.		
14) 1,1-Dichloropropene	8.76	75	55	N.D.		
15) Thiophene	9.15	84	1991	N.D.		
17) 2,3-Dimethylpentane	9.59	56	8771	0.280	ng	# 82
18) Dibromomethane	9.88	174	438	N.D.		
20) Methyl Cyclohexane	11.47	55	62052m	1.868	ng	
21) 1,3-Dichloropropane	12.61	76	2961	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	15.24	91	850	N.D.		
24) 1,2,3-Trichloropropane	0.00	75	0	N.D.	d	
25) Bromobenzene	17.16	77	125	N.D.		
26) 2-Chlorotoluene	17.68	91	726	N.D.		
27) 4-Chlorotoluene	0.00	91	0	N.D.	d	
28) Indane	19.39	117	5325	N.D.		
29) Indene	19.51	115	1231	N.D.		
30) 1,2,4,5-Tetramethylben...	20.70	119	4582	N.D.		
31) 1,2,3,4-Tetramethylben...	20.70	119	4582	N.D.		
32) 1,2,3,5-Tetramethylben...	21.12	119	6995	N.D.		
33) 1,2,3-Trichlorobenzene	21.96	180	74	N.D.		

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

Data File : I:\MS13\DATA\2023_03\23\03232326.D
Acq On : 23 Mar 2023 21:14
Sample : P2301250-002 (1000mL)
Misc : S35-01202301

Vial: 9
Operator: TZ
Inst : MS13

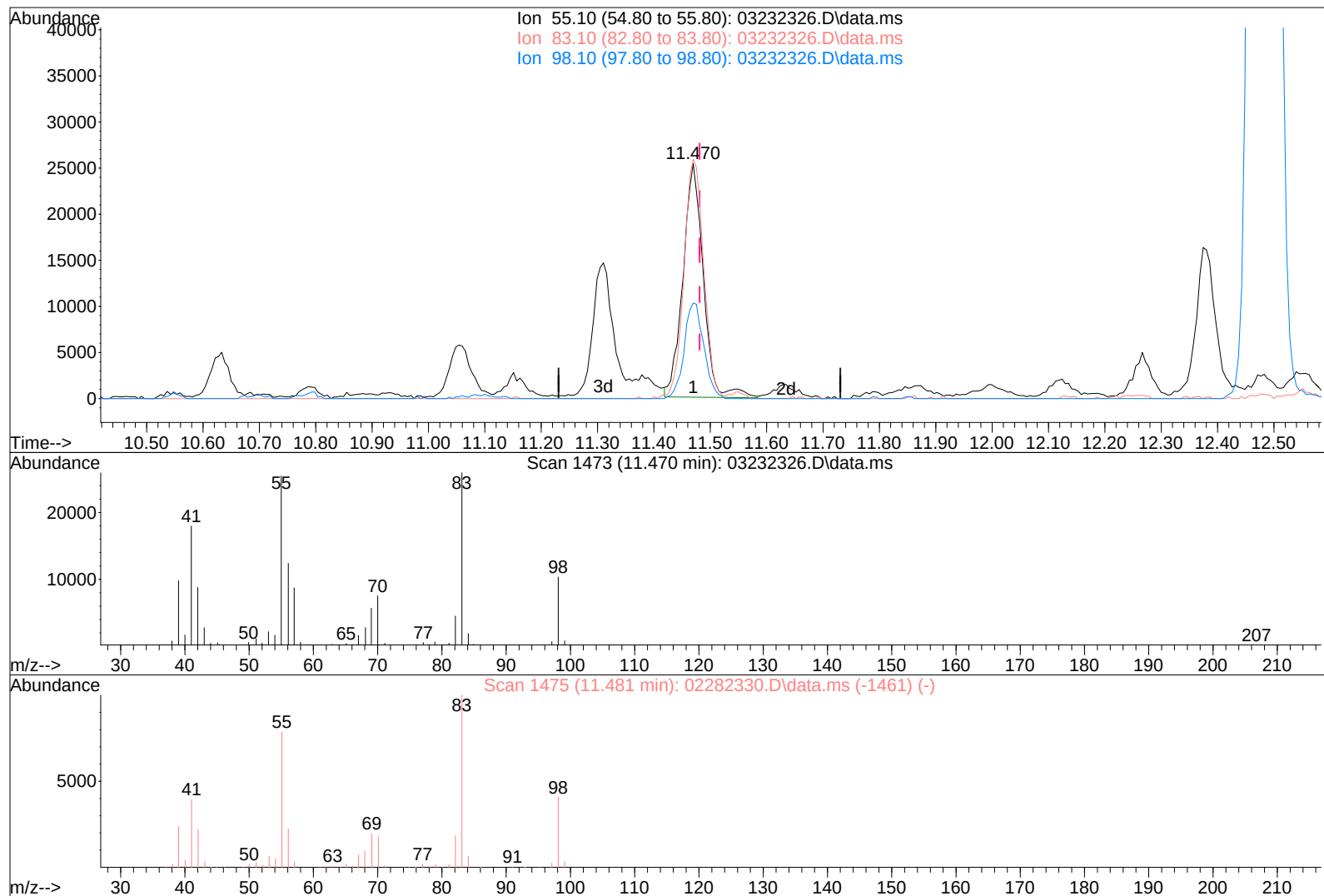
Quant Time: Mar 27 15:15:48 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\23\03232326.D
Acq On : 23 Mar 2023 21:14
Sample : P2301250-002 (1000mL)
Misc : S35-01202301

Vial: 9
Operator: TZ
Inst : MS13

Quant Time: Mar 27 14:40:05 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03232326.D\data.ms

(20) Methyl Cyclohexane (T)

11.470min (-0.011) 1.92ng

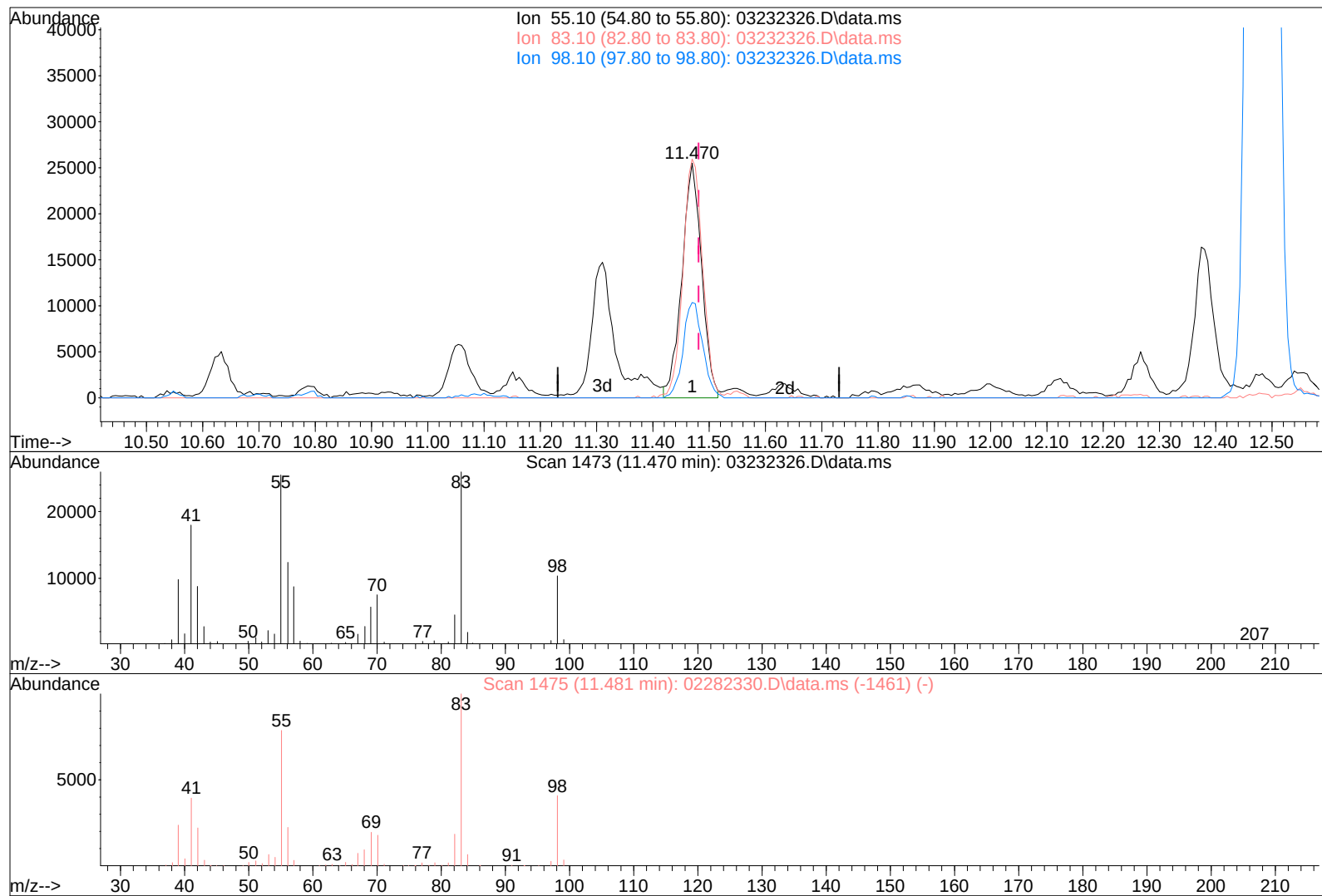
response 63604

Ion	Exp%	Act%
55.10	100	100
83.10	128.30	99.60#
98.10	53.10	39.45#
0.00	0.00	0.00

Data File : I:\MS13\DATA\2023_03\23\03232326.D
Acq On : 23 Mar 2023 21:14
Sample : P2301250-002 (1000mL)
Misc : S35-01202301

Vial: 9
Operator: TZ
Inst : MS13

Quant Time: Mar 27 14:40:05 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03232326.D\data.ms

(20) Methyl Cyclohexane (T)

11.470min (-0.011) 1.87ng m

response 62052

Ion	Exp%	Act%
-----	------	------

55.10	100	100
-------	-----	-----

83.10	128.30	102.09#
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98.10	53.10	40.43#
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0.00	0.00	0.00
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IPC

TZ 3/27/23

3/28/23

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG2-2

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01743

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/23/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.21 Final Pressure (psig): 3.92

Container Dilution Factor: 1.62

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.7	0.86	0.14	0.54	0.17	0.029	
74-87-3	Chloromethane	ND	0.34	0.14	ND	0.16	0.067	
75-01-4	Vinyl Chloride	0.28	0.18	0.092	0.11	0.070	0.036	
74-83-9	Bromomethane	ND	0.34	0.12	ND	0.088	0.031	
75-00-3	Chloroethane	ND	0.34	0.11	ND	0.13	0.041	
67-64-1	Acetone	21	8.5	1.9	8.9	3.6	0.82	
75-69-4	Trichlorofluoromethane	1.2	0.84	0.13	0.21	0.15	0.023	
75-35-4	1,1-Dichloroethene	ND	0.18	0.12	ND	0.045	0.030	
75-09-2	Methylene Chloride	7.1	0.86	0.24	2.1	0.25	0.070	
76-13-1	Trichlorotrifluoroethane	0.52	0.87	0.12	0.068	0.11	0.016	J
75-15-0	Carbon Disulfide	0.46	1.7	0.26	0.15	0.56	0.083	J
156-60-5	trans-1,2-Dichloroethene	ND	0.18	0.12	ND	0.045	0.030	
75-34-3	1,1-Dichloroethane	ND	0.18	0.13	ND	0.044	0.031	
1634-04-4	Methyl tert-Butyl Ether	ND	0.87	0.10	ND	0.24	0.028	
78-93-3	2-Butanone (MEK)	1.8	1.7	0.18	0.61	0.57	0.060	
156-59-2	cis-1,2-Dichloroethene	ND	0.18	0.12	ND	0.045	0.031	
67-66-3	Chloroform	0.26	0.18	0.12	0.052	0.037	0.024	
107-06-2	1,2-Dichloroethane	ND	0.18	0.096	ND	0.044	0.024	
71-55-6	1,1,1-Trichloroethane	1.4	0.18	0.11	0.26	0.033	0.020	
71-43-2	Benzene	0.67	0.18	0.12	0.21	0.056	0.039	
56-23-5	Carbon Tetrachloride	0.50	0.18	0.12	0.079	0.028	0.019	
110-82-7	Cyclohexane	0.34	1.7	0.24	0.10	0.49	0.071	J
78-87-5	1,2-Dichloropropane	ND	0.18	0.11	ND	0.039	0.023	
75-27-4	Bromodichloromethane	ND	0.18	0.12	ND	0.027	0.019	
79-01-6	Trichloroethene	1.2	0.18	0.12	0.23	0.033	0.022	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG2-2

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01743

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/23/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.21 Final Pressure (psig): 3.92

Container Dilution Factor: 1.62

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.87	0.13	ND	0.19	0.030	
108-10-1	4-Methyl-2-pentanone	0.40	1.8	0.12	0.097	0.44	0.029	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.83	0.18	ND	0.18	0.039	
79-00-5	1,1,2-Trichloroethane	ND	0.18	0.087	ND	0.033	0.016	
108-88-3	Toluene	6.1	0.86	0.11	1.6	0.23	0.028	
591-78-6	2-Hexanone	ND	1.8	0.11	ND	0.44	0.026	
124-48-1	Dibromochloromethane	ND	0.18	0.11	ND	0.021	0.013	
106-93-4	1,2-Dibromoethane	ND	0.18	0.10	ND	0.023	0.013	
127-18-4	Tetrachloroethene	0.78	0.18	0.11	0.11	0.026	0.016	
108-90-7	Chlorobenzene	0.12	0.86	0.12	0.027	0.19	0.025	J
100-41-4	Ethylbenzene	0.81	0.86	0.12	0.19	0.20	0.028	J
179601-23-1	m,p-Xylenes	3.4	1.8	0.23	0.78	0.41	0.052	
75-25-2	Bromoform	ND	0.87	0.18	ND	0.085	0.017	
100-42-5	Styrene	0.63	0.86	0.14	0.15	0.20	0.033	J
95-47-6	o-Xylene	1.5	0.86	0.12	0.35	0.20	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.18	0.12	ND	0.026	0.017	
98-82-8	Cumene	0.15	0.87	0.12	0.030	0.18	0.025	J
541-73-1	1,3-Dichlorobenzene	ND	0.86	0.13	ND	0.14	0.022	
106-46-7	1,4-Dichlorobenzene	0.18	0.86	0.13	0.029	0.14	0.022	J
95-50-1	1,2-Dichlorobenzene	0.18	0.87	0.13	0.030	0.15	0.021	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.8	0.16	ND	0.18	0.017	
120-82-1	1,2,4-Trichlorobenzene	ND	1.8	0.21	ND	0.24	0.028	
79-20-9	Methyl Acetate	ND	0.81	0.39	ND	0.27	0.13	X
108-87-2	Methylcyclohexane	1.4	0.81	0.42	0.35	0.20	0.10	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS13\DATA\2023_03\23\03232327.D
 Acq On : 23 Mar 2023 21:50
 Sample : P2301250-003 (1000mL)
 Misc : S35-01202301

Vial: 10
 Operator: TZ
 Inst : MS13

TZ 3/27/23

Quant Time: Mar 27 09:56:36 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	247870	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.38	114	1090213	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	204220	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	421945	12.827	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.64%
57) Toluene-d8 (SS2)	12.48	98	1218530	11.602	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.80%
73) Bromofluorobenzene (SS3)	16.85	174	457372	11.890	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	95.12%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	3.46	85	74835	1.648	ng	99
4) Chloromethane	0.00	50	0	N.D.	d	
5) 1,2-Dichloro-1,1,2,2-t...	3.67	135	128	N.D.		
6) Vinyl Chloride	3.79	62	5298m	0.175	ng	
7) 1,3-Butadiene	0.00	54	0	N.D.	d	
8) Bromomethane	4.12	94	790	N.D.		
9) Chloroethane	4.27	64	222	N.D.		
10) Ethanol	4.44	45	1639581	93.137	ng	100
11) Acetonitrile	0.00	41	0	N.D.	d	
12) Acrolein	4.64	56	3542	0.243	ng	99
13) Acetone	4.73	58	195429	13.008	ng	96
14) Trichlorofluoromethane	4.86	101	29972	0.733	ng	98
15) 2-Propanol (Isopropanol)	4.98	45	230632	3.802	ng	96
16) Acrylonitrile	5.10	53	784	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.44	84	96997	4.404	ng	95
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	5.67	151	6880	0.320	ng	99
22) Carbon Disulfide	5.70	76	24540	0.281	ng	99
23) trans-1,2-Dichloroethene	6.22	61	201	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.	d	
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.	d	
26) Vinyl Acetate	6.52	86	3582	0.882	ng	# 1
27) 2-Butanone (MEK)	6.76	72	14879	1.116	ng	95
28) cis-1,2-Dichloroethene	7.16	61	467	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	7.37	61	57812	6.592	ng	92
31) n-Hexane	7.38	57	26445	0.783	ng	99
32) Chloroform	7.43	83	6306	0.158	ng	96
34) Tetrahydrofuran (THF)	7.85	72	5023	0.367	ng	# 79
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.19	62	359	N.D.		
38) 1,1,1-Trichloroethane	8.47	97	31837	0.882	ng	99
39) Isopropyl Acetate	9.37	61	32499	No Calib		
40) 1-Butanol	8.88	56	73761	No Calib	#	
41) Benzene	8.97	78	35199	0.415	ng	97
42) Carbon Tetrachloride	9.14	117	9759	0.307	ng	95
43) Cyclohexane	9.28	84	6582	0.212	ng	87
44) tert-Amyl Methyl Ether	9.71	73	2693	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	10.16	83	1215	N.D.		
47) Trichloroethene	10.21	130	18647	0.750	ng	100
48) 1,4-Dioxane	10.21	88	542	N.D.		
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.	d	
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS13\DATA\2023_03\23\03232327.D
 Acq On : 23 Mar 2023 21:50
 Sample : P2301250-003 (1000mL)
 Misc : S35-01202301

Vial: 10
 Operator: TZ
 Inst : MS13

Quant Time: Mar 27 09:56:36 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

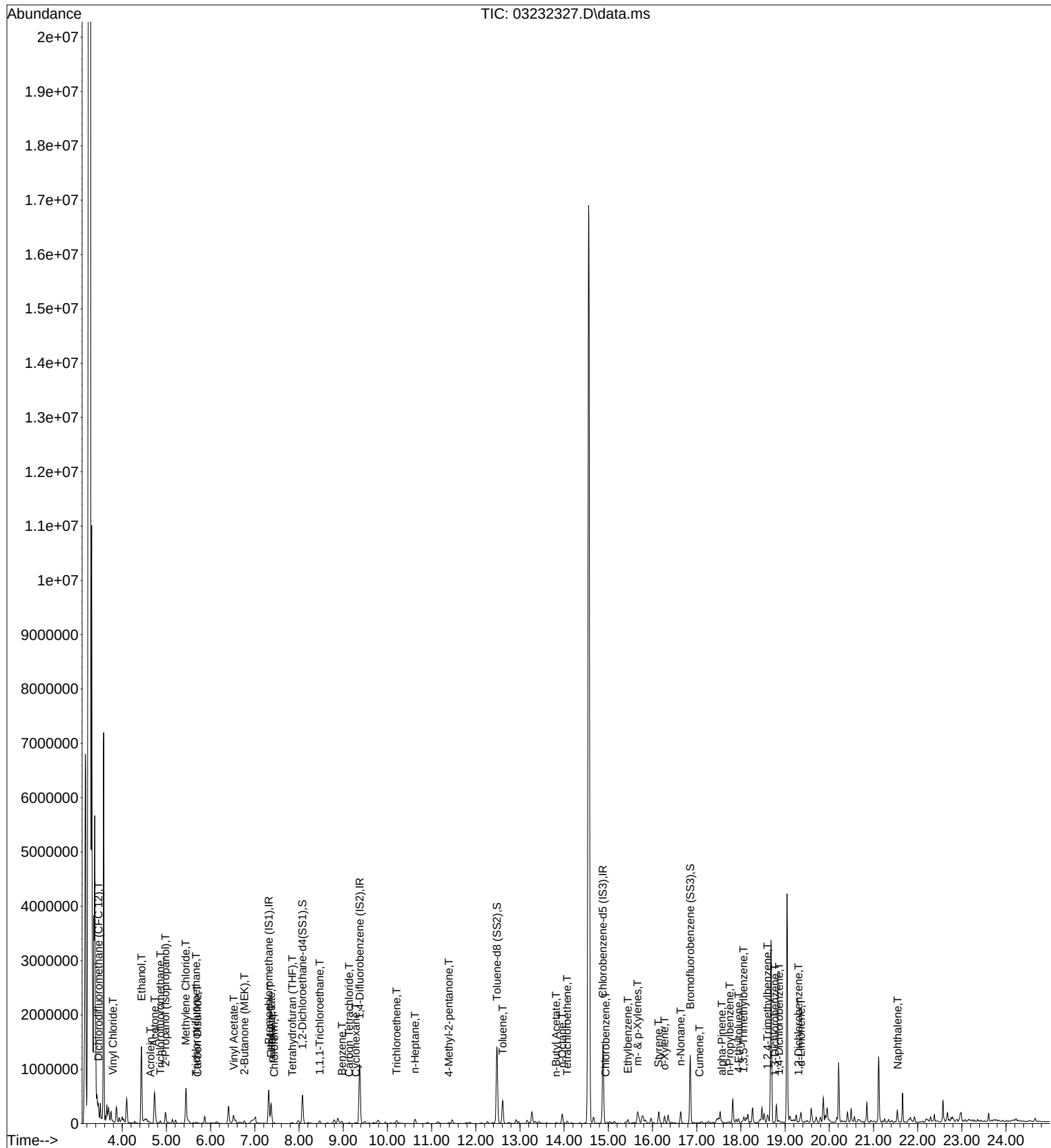
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.63	71	21689	1.057	ng	95
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.39	58	4503	0.246	ng	91
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	12.12	97	143	N.D.		
58) Toluene	12.61	91	378065	3.781	ng	100
59) 2-Hexanone	0.00	43	0	N.D.	d	
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.81	43	15311	0.277	ng	98
63) n-Octane	13.96	57	32997	1.678	ng	96
64) Tetrachloroethene	14.07	166	14578	0.479	ng	97
65) Chlorobenzene	14.94	112	4982	0.076	ng	97
66) Ethylbenzene	15.44	91	59314	0.497	ng	97
67) m- & p-Xylenes	15.66	91	199897	2.082	ng	98
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.14	104	25799	0.391	ng	99
70) o-Xylene	16.27	91	86676	0.944	ng	98
71) n-Nonane	16.64	43	86125	1.939	ng	98
72) 1,1,2,2-Tetrachloroethane	16.26	83	190	N.D.		
74) Cumene	17.06	105	10090	0.090	ng	97
75) alpha-Pinene	17.57	93	12281	0.238	ng	83
76) n-Propylbenzene	17.74	91	19108	0.143	ng	95
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	19918	0.186	ng	98
79) 1,3,5-Trimethylbenzene	18.05	105	25362	0.268	ng	96
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.60	105	64174	0.687	ng	90
83) n-Decane	17.13	58	2999	No Calib	#	
84) Benzyl Chloride	18.75	91	1468	N.D.		
85) 1,3-Dichlorobenzene	18.77	146	3777	0.067	ng	98
86) 1,4-Dichlorobenzene	18.86	146	6386	0.109	ng	100
87) sec-Butylbenzene	18.96	105	4378	N.D.		
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.	d	
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.30	146	6188	0.111	ng	89
91) d-Limonene	19.36	68	37239	1.179	ng	97
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.26	58	8139	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.42	180	963	N.D.		
95) Naphthalene	21.55	128	36456	0.360	ng	100
96) n-Dodecane	19.20	58	1166	No Calib	#	
97) Hexachlorobutadiene	21.98	225	193	N.D.		
98) Cyclohexanone	15.65	55	572	No Calib	#	
99) tert-Butylbenzene	0.00	119	0	N.D.	d	
100) n-Butylbenzene	0.00	91	0	N.D.	d	
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\23\03232327.D
Acq On : 23 Mar 2023 21:50
Sample : P2301250-003 (1000mL)
Misc : S35-01202301

Vial: 10
Operator: TZ
Inst : MS13

Quant Time: Mar 27 09:56:36 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\23\03232327.D
 Acq On : 23 Mar 2023 21:50
 Sample : P2301250-003 (1000mL)
 Misc : S35-01202301

Vial: 10
 Operator: TZ
 Inst : MS13

Tz 3/27/23

Quant Time: Mar 27 09:56:36 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	247870	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.38	114	1090213	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	204220	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	421945	12.827	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.64%
57) Toluene-d8 (SS2)	12.48	98	1218530	11.602	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.80%
73) Bromofluorobenzene (SS3)	16.85	174	457372	11.890	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	95.12%

Target Compounds

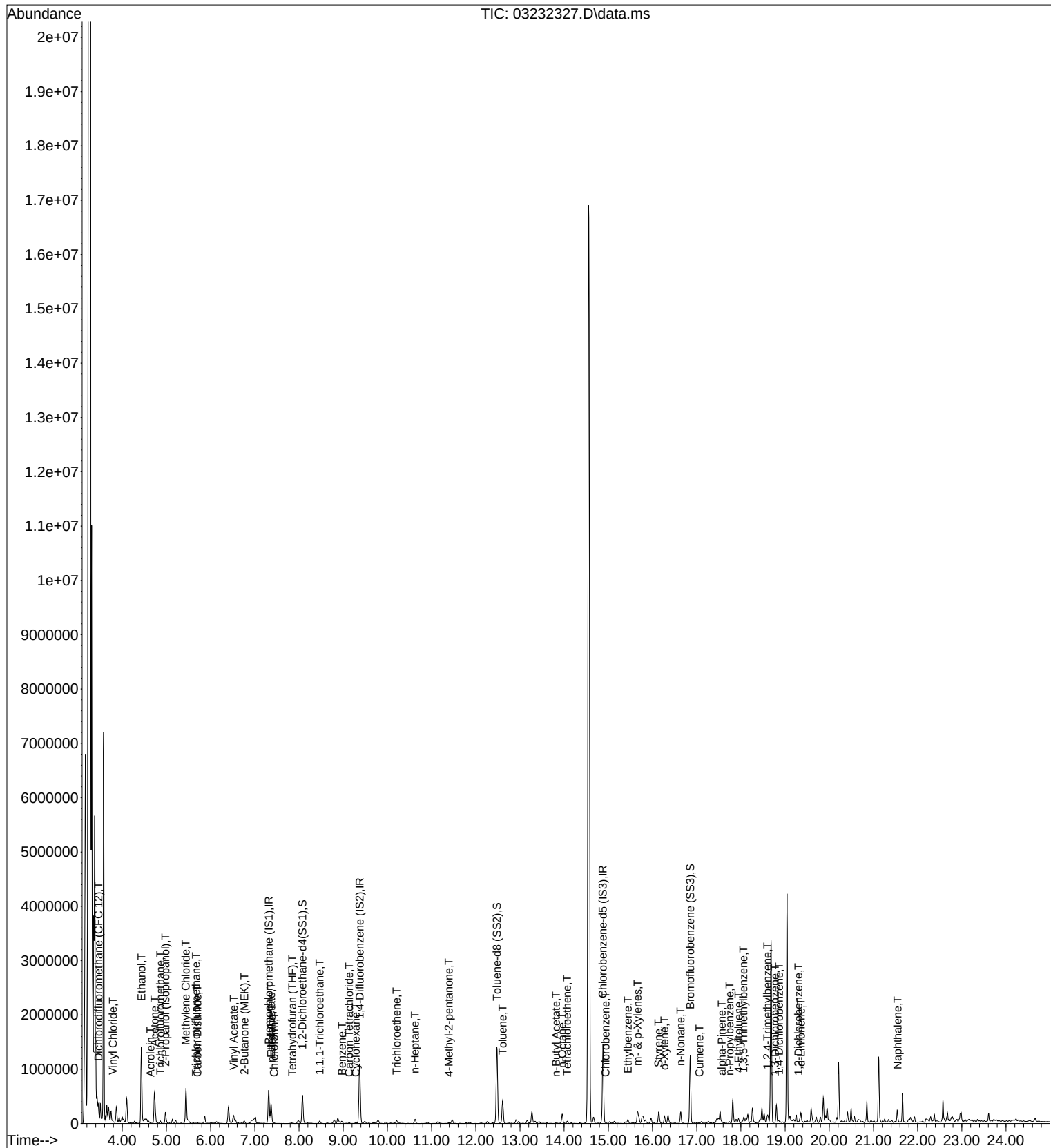
						Qvalue
3) Dichlorodifluoromethan...	3.46	85	74835	1.648	ng	99
6) Vinyl Chloride	3.79	62	5298m	0.175	ng	
10) Ethanol	4.44	45	1639581	93.137	ng	100
12) Acrolein	4.64	56	3542	0.243	ng	99
13) Acetone	4.73	58	195429	13.008	ng	96
14) Trichlorofluoromethane	4.86	101	29972	0.733	ng	98
15) 2-Propanol (Isopropanol)	4.98	45	230632	3.802	ng	96
19) Methylene Chloride	5.44	84	96997	4.404	ng	95
21) Trichlorotrifluoroethane	5.67	151	6880	0.320	ng	99
22) Carbon Disulfide	5.70	76	24540	0.281	ng	99
26) Vinyl Acetate	6.52	86	3582	0.882	ng	# 1
27) 2-Butanone (MEK)	6.76	72	14879	1.116	ng	95
30) Ethyl Acetate	7.37	61	57812	6.592	ng	92
31) n-Hexane	7.38	57	26445	0.783	ng	99
32) Chloroform	7.43	83	6306	0.158	ng	96
34) Tetrahydrofuran (THF)	7.85	72	5023	0.367	ng	# 79
38) 1,1,1-Trichloroethane	8.47	97	31837	0.882	ng	99
41) Benzene	8.97	78	35199	0.415	ng	97
42) Carbon Tetrachloride	9.14	117	9759	0.307	ng	95
43) Cyclohexane	9.28	84	6582	0.212	ng	87
47) Trichloroethene	10.21	130	18647	0.750	ng	100
51) n-Heptane	10.63	71	21689	1.057	ng	95
53) 4-Methyl-2-pentanone	11.39	58	4503	0.246	ng	91
58) Toluene	12.61	91	378065	3.781	ng	100
62) n-Butyl Acetate	13.81	43	15311	0.277	ng	98
63) n-Octane	13.96	57	32997	1.678	ng	96
64) Tetrachloroethene	14.07	166	14578	0.479	ng	97
65) Chlorobenzene	14.94	112	4982	0.076	ng	97
66) Ethylbenzene	15.44	91	59314	0.497	ng	97
67) m- & p-Xylenes	15.66	91	199897	2.082	ng	98
69) Styrene	16.14	104	25799	0.391	ng	99
70) o-Xylene	16.27	91	86676	0.944	ng	98
71) n-Nonane	16.64	43	86125	1.939	ng	98
74) Cumene	17.06	105	10090	0.090	ng	97
75) alpha-Pinene	17.57	93	12281	0.238	ng	83
76) n-Propylbenzene	17.74	91	19108	0.143	ng	95
78) 4-Ethyltoluene	17.95	105	19918	0.186	ng	98
79) 1,3,5-Trimethylbenzene	18.05	105	25362	0.268	ng	96
82) 1,2,4-Trimethylbenzene	18.60	105	64174	0.687	ng	90
85) 1,3-Dichlorobenzene	18.77	146	3777	0.067	ng	98
86) 1,4-Dichlorobenzene	18.86	146	6386	0.109	ng	100
90) 1,2-Dichlorobenzene	19.30	146	6188	0.111	ng	89
91) d-Limonene	19.36	68	37239	1.179	ng	97
95) Naphthalene	21.55	128	36456	0.360	ng	100

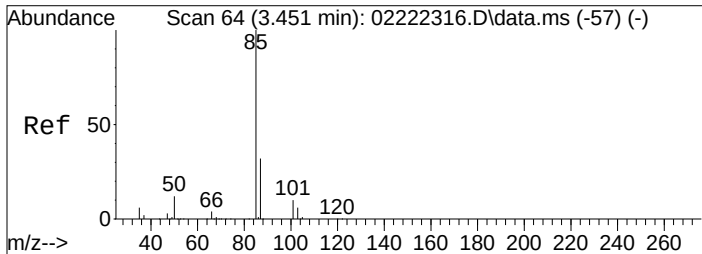
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS13\DATA\2023_03\23\03232327.D
Acq On : 23 Mar 2023 21:50
Sample : P2301250-003 (1000mL)
Misc : S35-01202301

Vial: 10
Operator: TZ
Inst : MS13

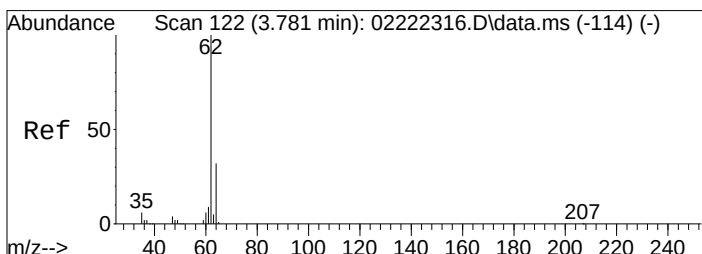
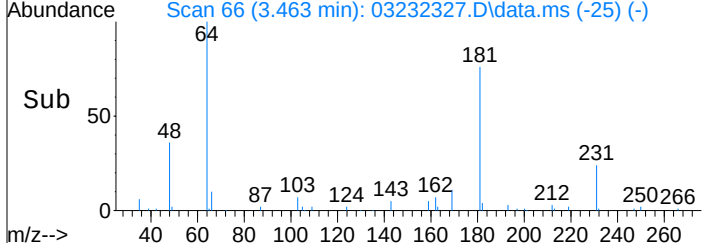
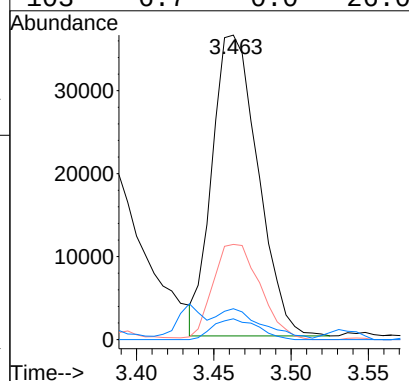
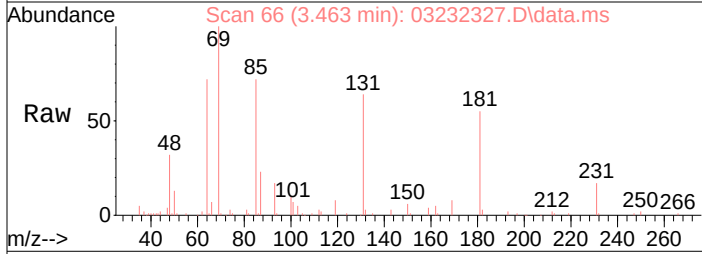
Quant Time: Mar 27 09:56:36 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M





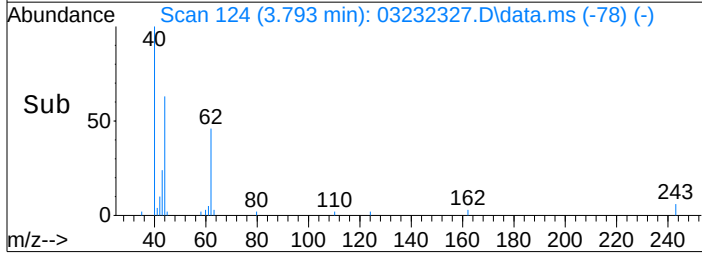
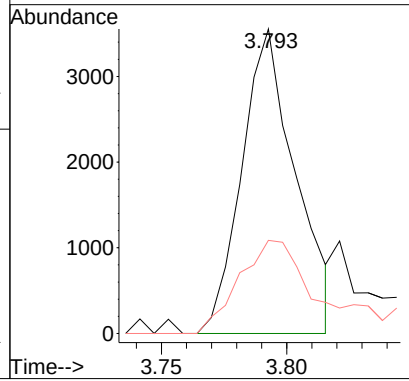
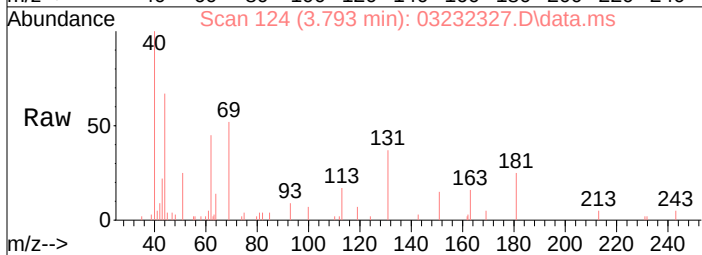
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.65 ng
 RT: 3.46 min Scan# 66
 Delta R.T. -0.015 min
 Lab File: 03232327.D
 Acq: 23 Mar 2023 21:50

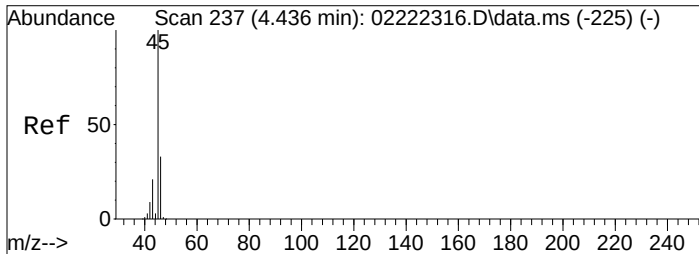
Tgt Ion:	85	Resp:	74835
Ion Ratio		Lower	Upper
85	100		
87	32.6	12.4	52.4
101	9.3	0.0	29.4
103	6.7	0.0	26.0



#6
 Vinyl Chloride
 Concen: 0.17 ng m
 RT: 3.79 min Scan# 124
 Delta R.T. 0.012 min
 Lab File: 03232327.D
 Acq: 23 Mar 2023 21:50

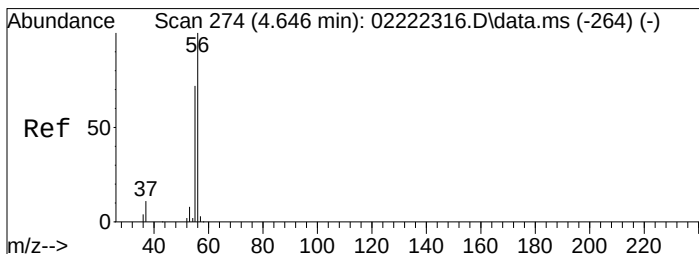
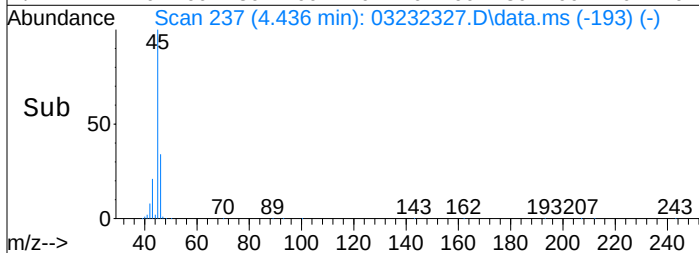
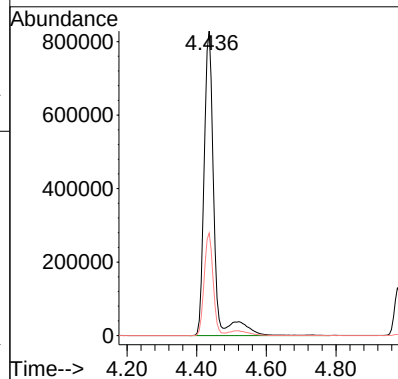
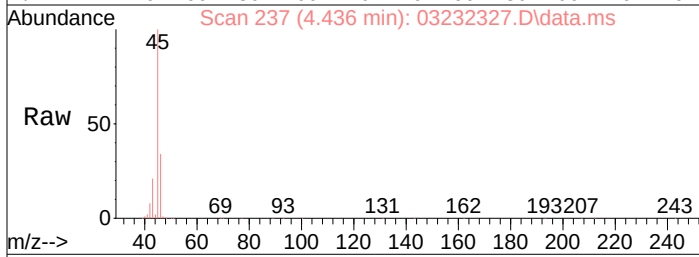
Tgt Ion:	62	Resp:	5298
Ion Ratio		Lower	Upper
62	100		
64	34.5	11.8	51.8





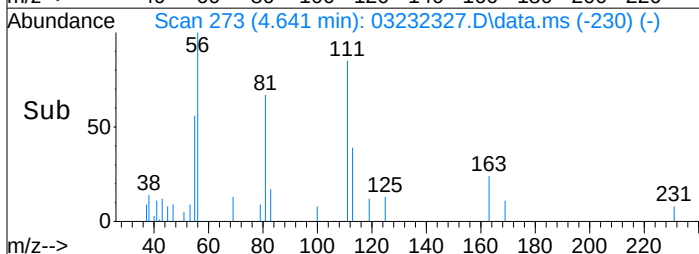
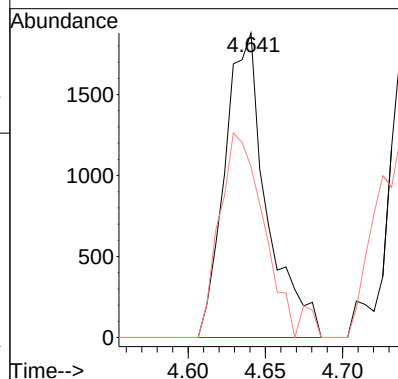
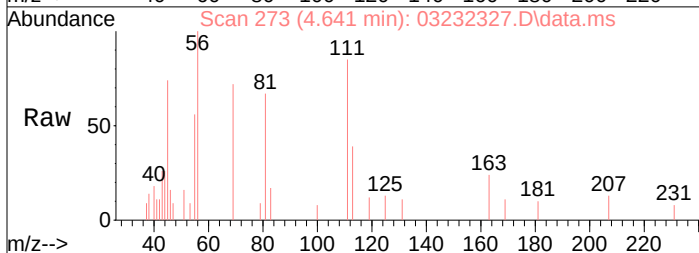
#10
Ethanol
Concen: 93.14 ng
RT: 4.44 min Scan# 237
Delta R.T. 0.000 min
Lab File: 03232327.D
Acq: 23 Mar 2023 21:50

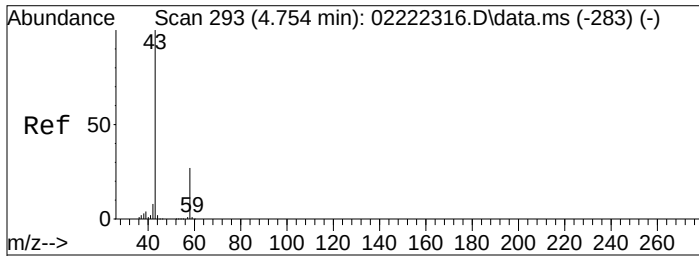
Tgt Ion: 45 Resp: 1639581
Ion Ratio Lower Upper
45 100
46 33.8 13.8 53.8



#12
Acrolein
Concen: 0.24 ng
RT: 4.64 min Scan# 273
Delta R.T. -0.005 min
Lab File: 03232327.D
Acq: 23 Mar 2023 21:50

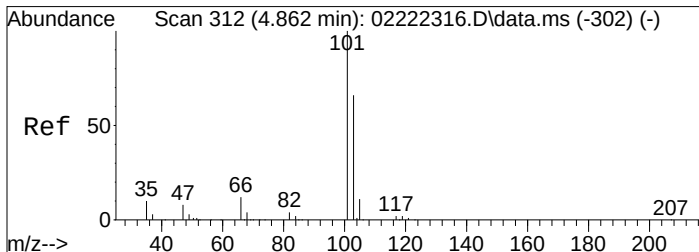
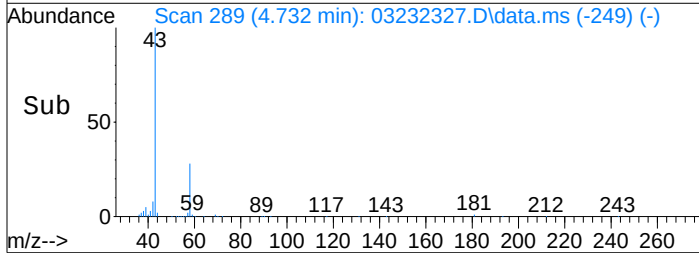
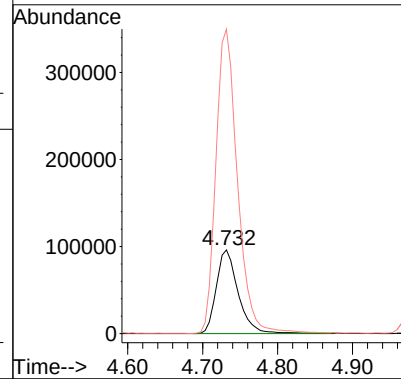
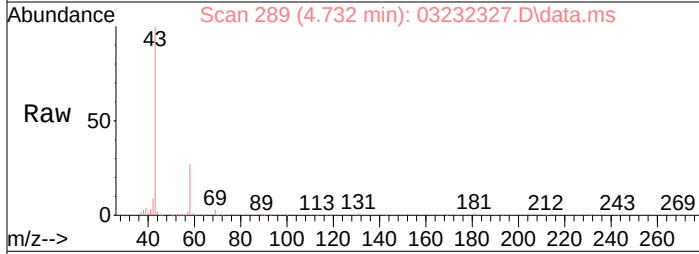
Tgt Ion: 56 Resp: 3542
Ion Ratio Lower Upper
56 100
55 69.8 50.9 90.9





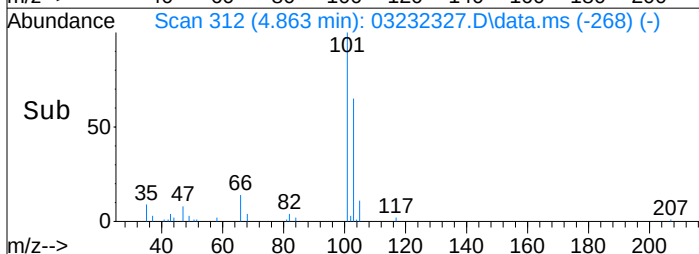
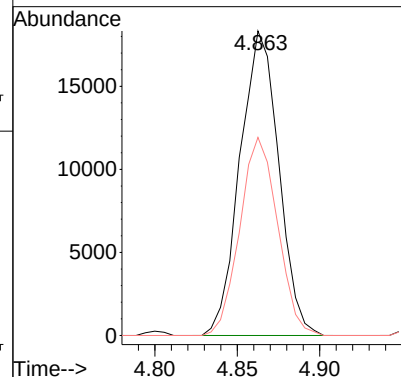
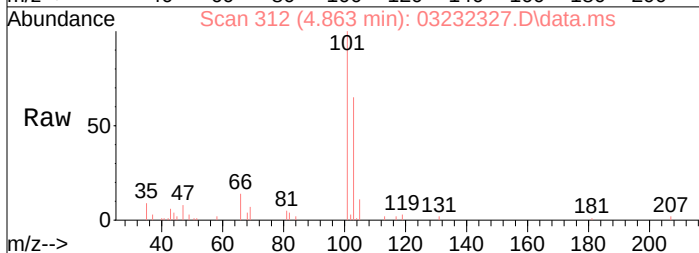
#13
Acetone
Concen: 13.01 ng
RT: 4.73 min Scan# 289
Delta R.T. -0.023 min
Lab File: 03232327.D
Acq: 23 Mar 2023 21:50

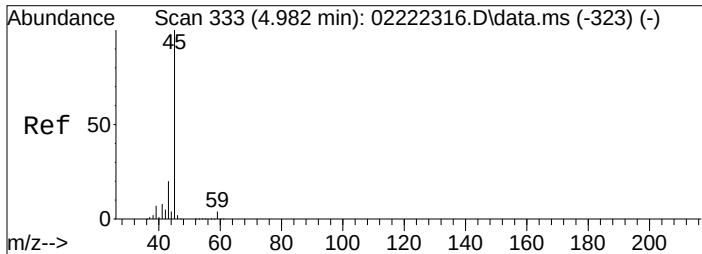
Tgt Ion: 58 Resp: 195429
Ion Ratio Lower Upper
58 100
43 358.4 337.8 397.8



#14
Trichlorofluoromethane
Concen: 0.73 ng
RT: 4.86 min Scan# 312
Delta R.T. 0.000 min
Lab File: 03232327.D
Acq: 23 Mar 2023 21:50

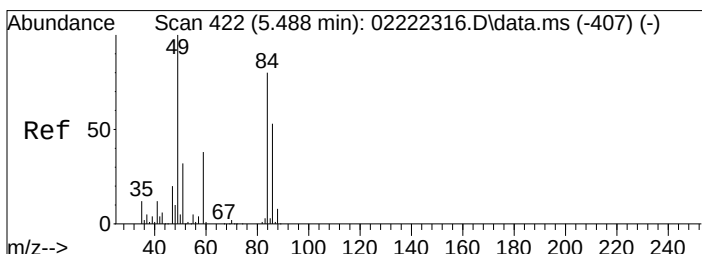
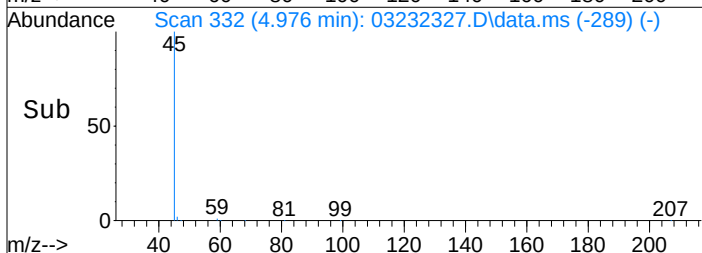
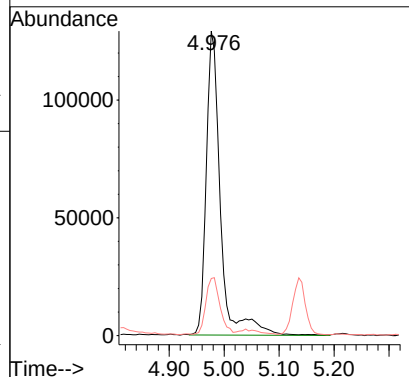
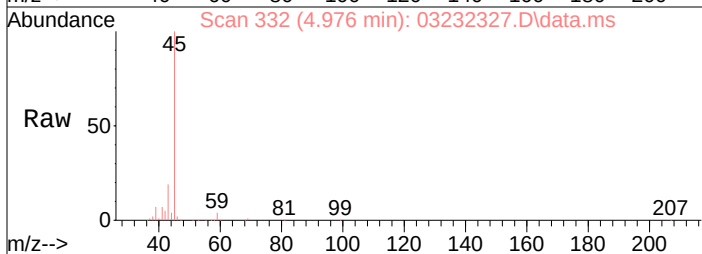
Tgt Ion: 101 Resp: 29972
Ion Ratio Lower Upper
101 100
103 63.6 45.2 85.2





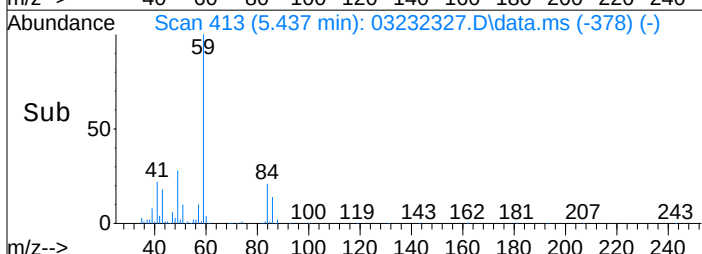
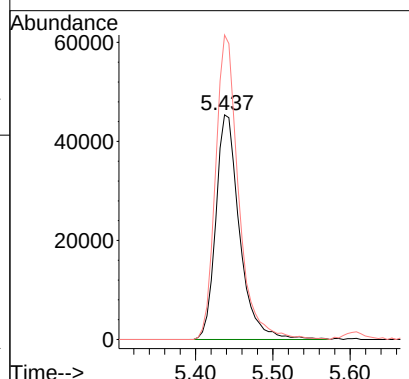
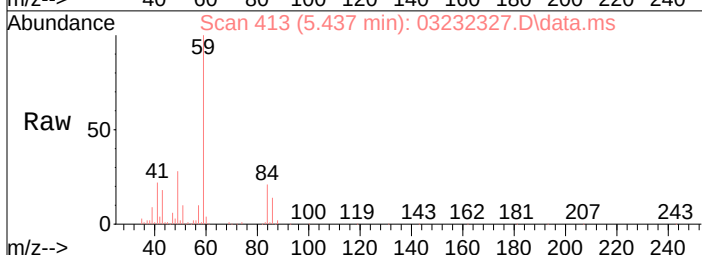
#15
 2-Propanol (Isopropanol)
 Concen: 3.80 ng
 RT: 4.98 min Scan# 332
 Delta R.T. -0.006 min
 Lab File: 03232327.D
 Acq: 23 Mar 2023 21:50

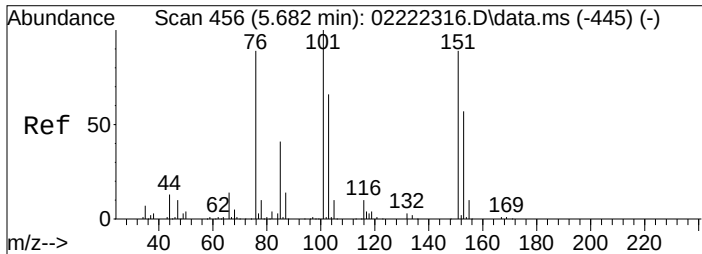
Tgt Ion: 45 Resp: 230632
 Ion Ratio Lower Upper
 45 100
 43 21.4 0.0 39.7



#19
 Methylene Chloride
 Concen: 4.40 ng
 RT: 5.44 min Scan# 413
 Delta R.T. -0.051 min
 Lab File: 03232327.D
 Acq: 23 Mar 2023 21:50

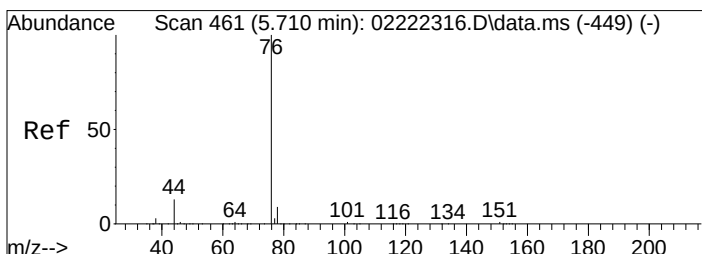
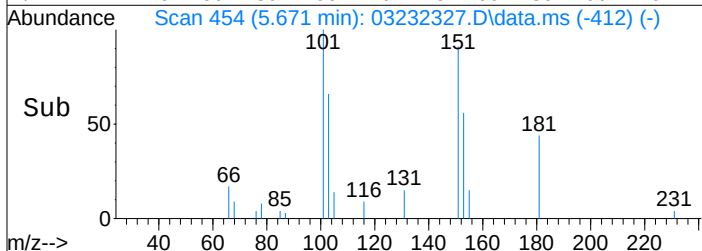
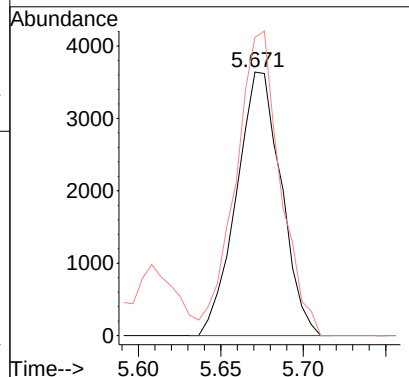
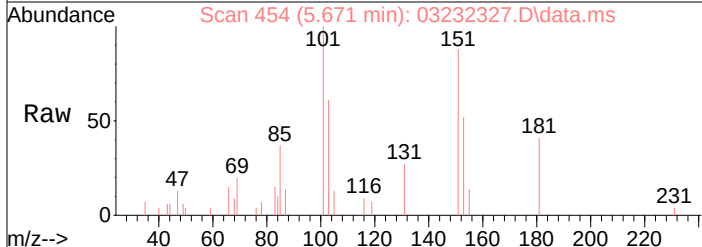
Tgt Ion: 84 Resp: 96997
 Ion Ratio Lower Upper
 84 100
 49 132.0 101.3 151.3





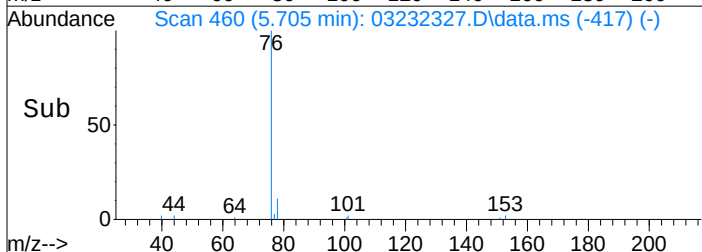
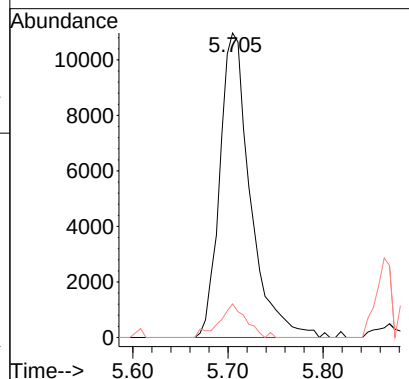
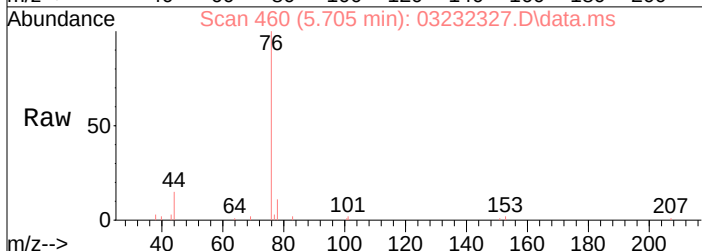
#21
 Trichlorotrifluoroethane
 Concen: 0.32 ng
 RT: 5.67 min Scan# 454
 Delta R.T. -0.011 min
 Lab File: 03232327.D
 Acq: 23 Mar 2023 21:50

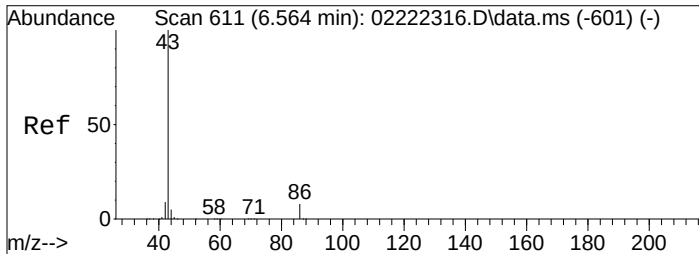
Tgt Ion:	151	Resp:	6880
Ion Ratio	Lower	Upper	
151	100		
101	115.1	96.3	136.3



#22
 Carbon Disulfide
 Concen: 0.28 ng
 RT: 5.70 min Scan# 460
 Delta R.T. -0.006 min
 Lab File: 03232327.D
 Acq: 23 Mar 2023 21:50

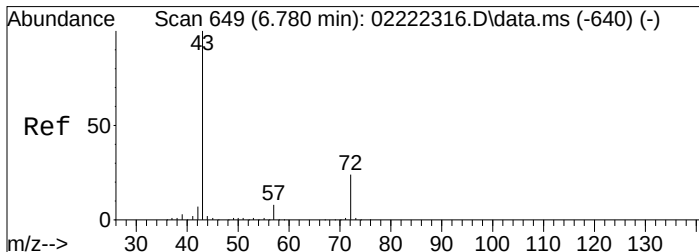
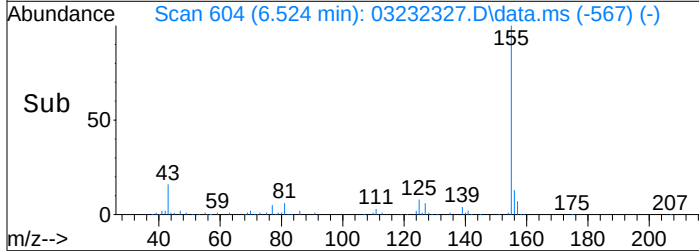
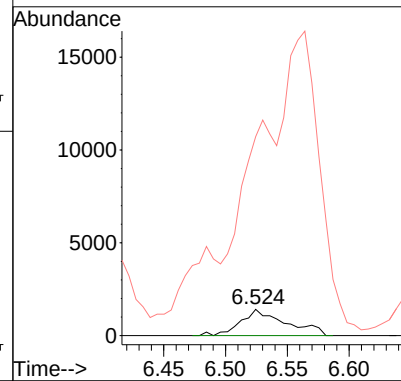
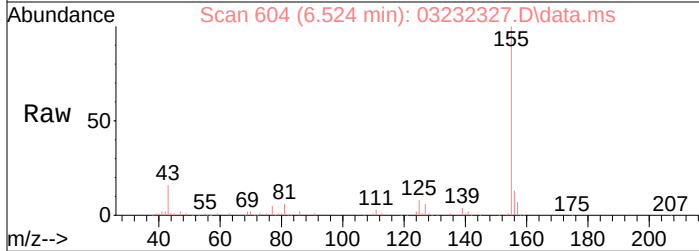
Tgt Ion:	76	Resp:	24540
Ion Ratio	Lower	Upper	
76	100		
78	9.8	0.0	29.3





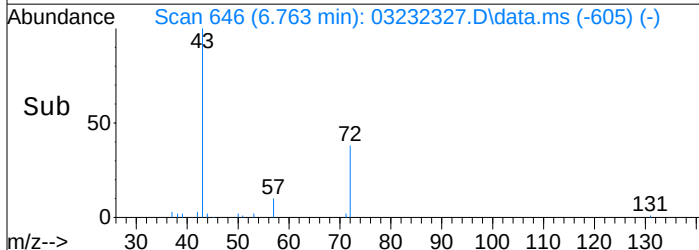
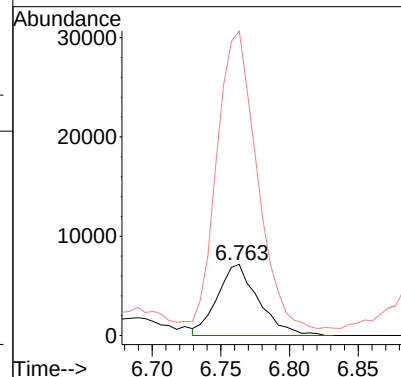
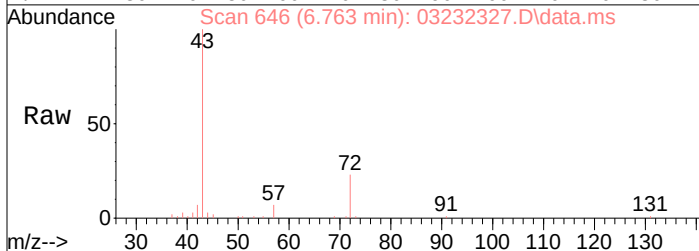
#26
 Vinyl Acetate
 Concen: 0.88 ng
 RT: 6.52 min Scan# 604
 Delta R.T. -0.040 min
 Lab File: 03232327.D
 Acq: 23 Mar 2023 21:50

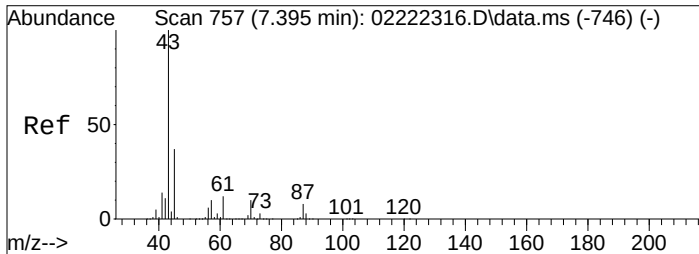
Tgt Ion: 86 Resp: 3582
 Ion Ratio Lower Upper
 86 100
 43 622.1 1292.1 1332.1#



#27
 2-Butanone (MEK)
 Concen: 1.12 ng
 RT: 6.76 min Scan# 646
 Delta R.T. -0.017 min
 Lab File: 03232327.D
 Acq: 23 Mar 2023 21:50

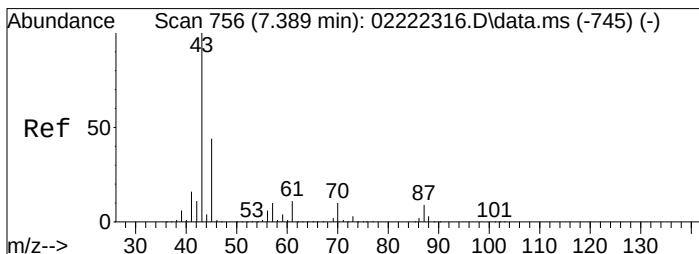
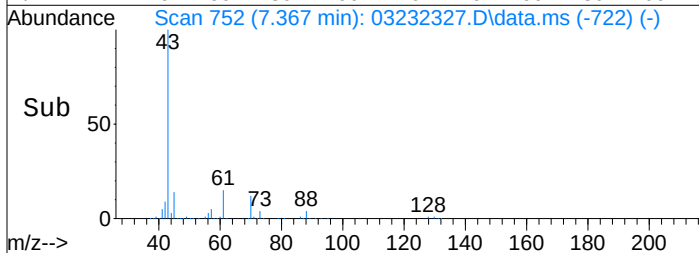
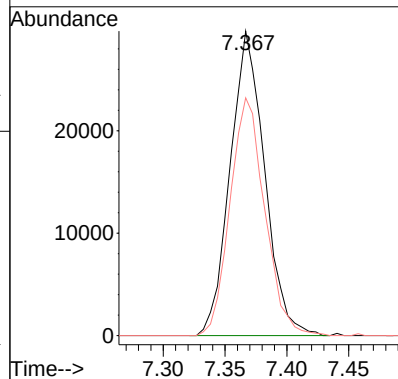
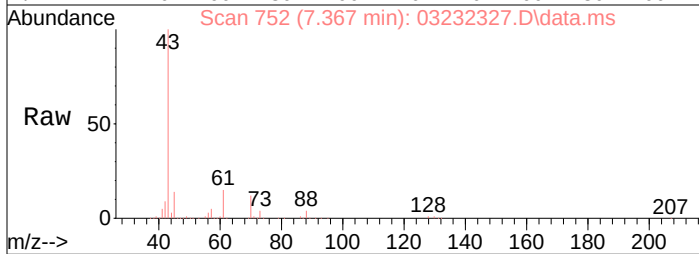
Tgt Ion: 72 Resp: 14879
 Ion Ratio Lower Upper
 72 100
 43 407.9 400.5 440.5





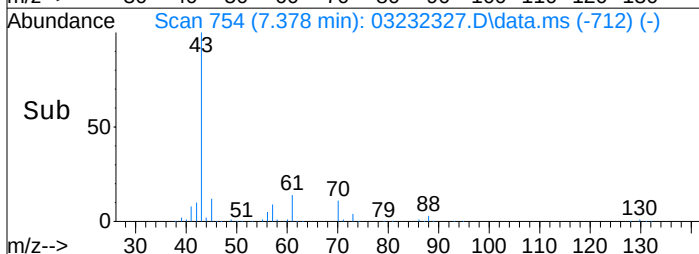
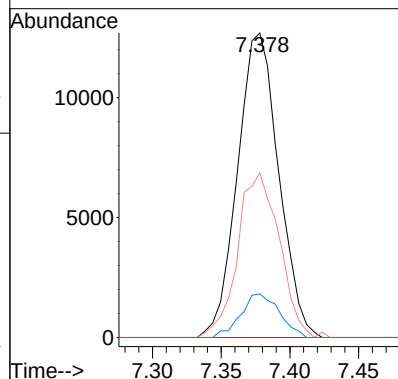
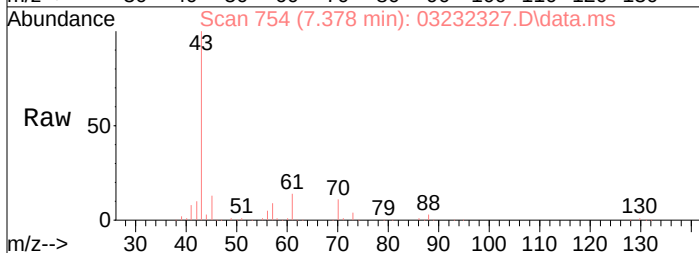
#30
Ethyl Acetate
Concen: 6.59 ng
RT: 7.37 min Scan# 752
Delta R.T. -0.028 min
Lab File: 03232327.D
Acq: 23 Mar 2023 21:50

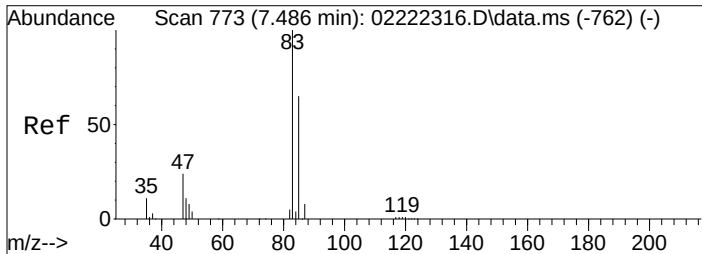
Tgt Ion: 61 Resp: 57812
Ion Ratio Lower Upper
61 100
70 78.7 65.6 105.6



#31
n-Hexane
Concen: 0.78 ng
RT: 7.38 min Scan# 754
Delta R.T. -0.011 min
Lab File: 03232327.D
Acq: 23 Mar 2023 21:50

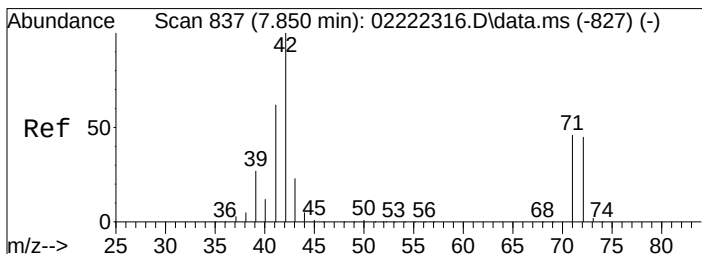
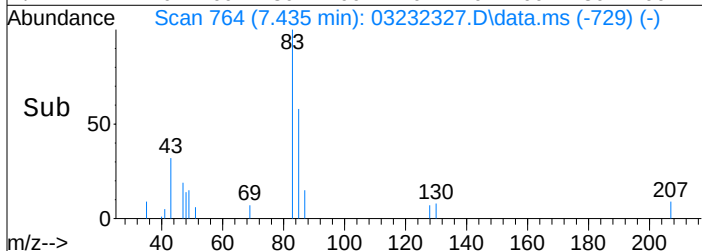
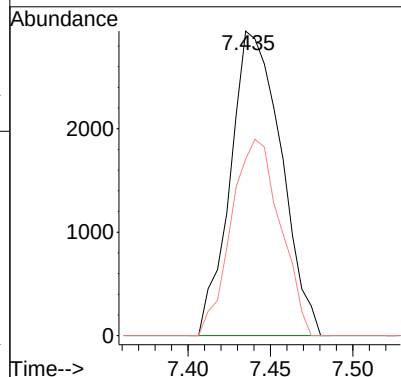
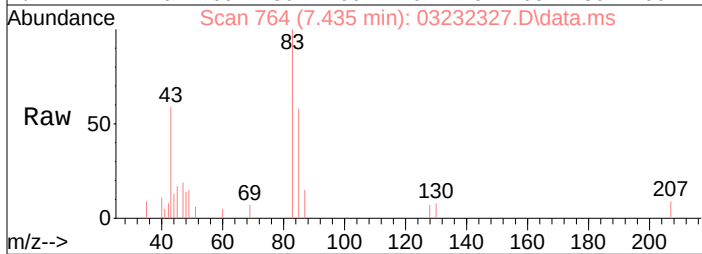
Tgt Ion: 57 Resp: 26445
Ion Ratio Lower Upper
57 100
56 54.7 44.0 66.0
86 13.4 11.5 17.3





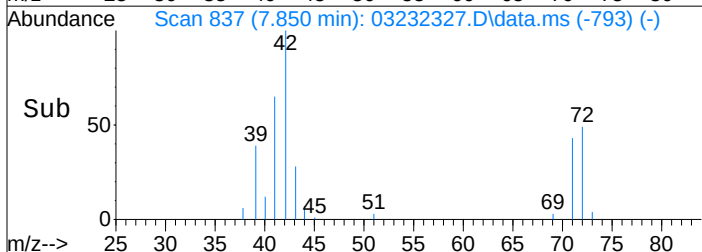
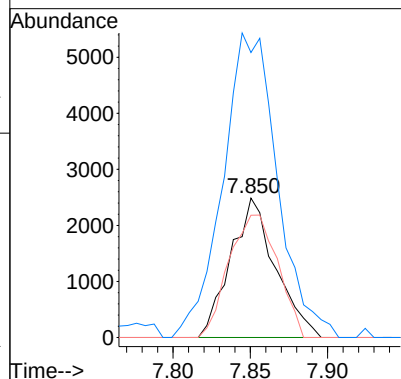
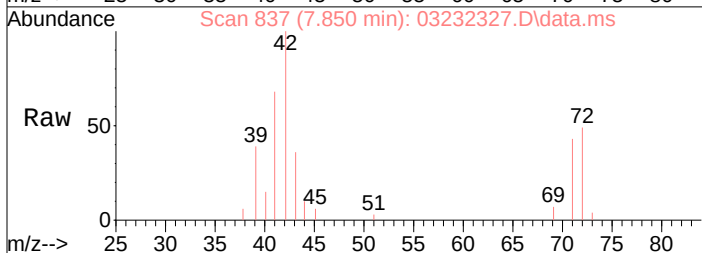
#32
 Chloroform
 Concen: 0.16 ng
 RT: 7.43 min Scan# 764
 Delta R.T. -0.051 min
 Lab File: 03232327.D
 Acq: 23 Mar 2023 21:50

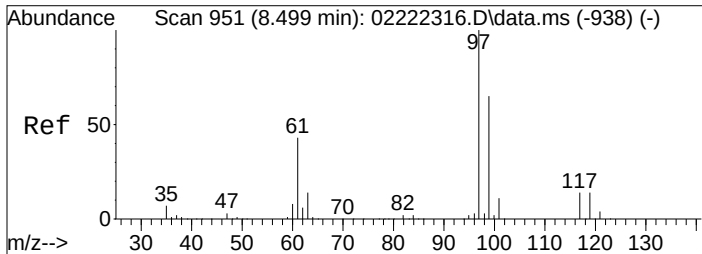
Tgt Ion: 83 Resp: 6306
 Ion Ratio Lower Upper
 83 100
 85 62.2 45.0 85.0



#34
 Tetrahydrofuran (THF)
 Concen: 0.37 ng
 RT: 7.85 min Scan# 837
 Delta R.T. 0.000 min
 Lab File: 03232327.D
 Acq: 23 Mar 2023 21:50

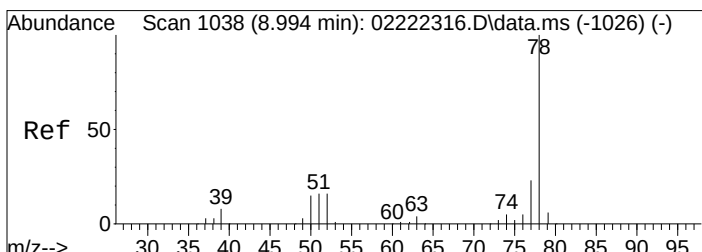
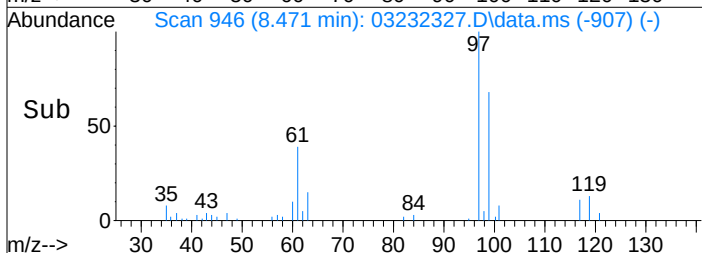
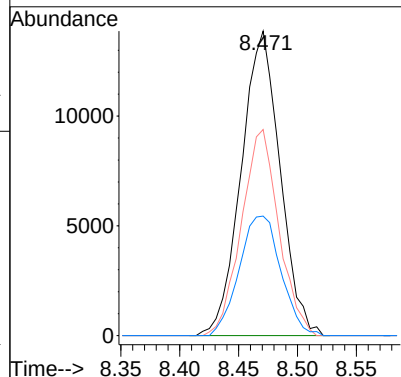
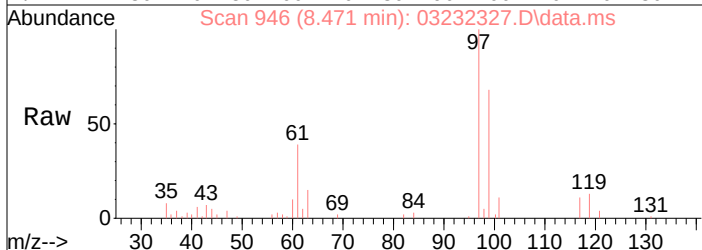
Tgt Ion: 72 Resp: 5023
 Ion Ratio Lower Upper
 72 100
 71 95.7 79.8 119.8
 42 265.6 199.0 239.0#





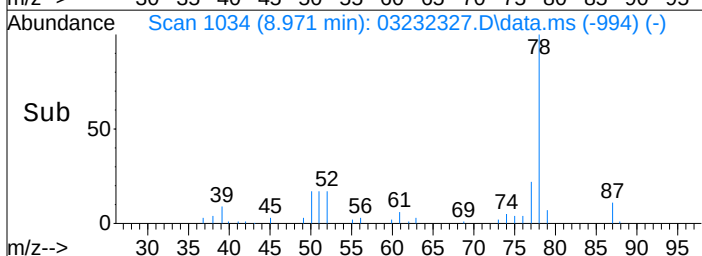
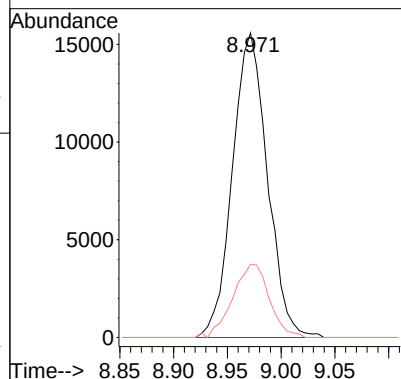
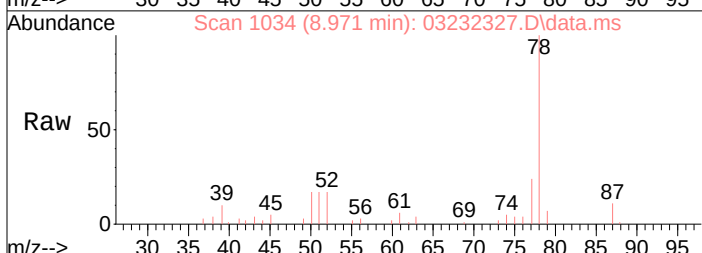
#38
 1,1,1-Trichloroethane
 Concen: 0.88 ng
 RT: 8.47 min Scan# 946
 Delta R.T. -0.028 min
 Lab File: 03232327.D
 Acq: 23 Mar 2023 21:50

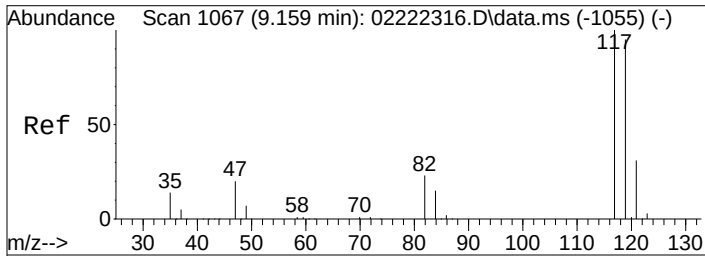
Tgt Ion:	97	Resp:	31837
Ion Ratio		Lower	Upper
97	100		
99	65.2	44.9	84.9
61	42.2	23.5	63.5



#41
 Benzene
 Concen: 0.42 ng
 RT: 8.97 min Scan# 1034
 Delta R.T. -0.023 min
 Lab File: 03232327.D
 Acq: 23 Mar 2023 21:50

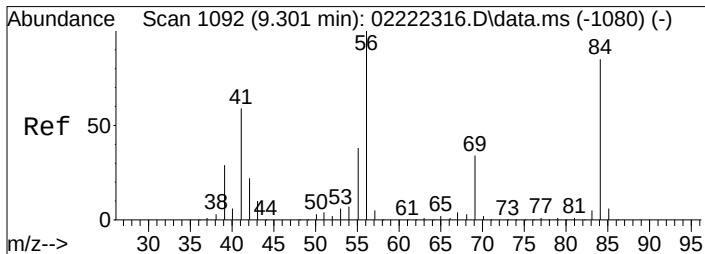
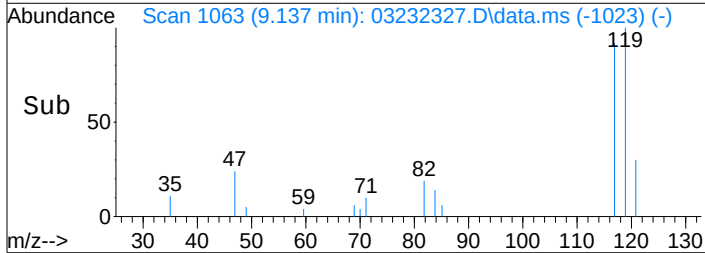
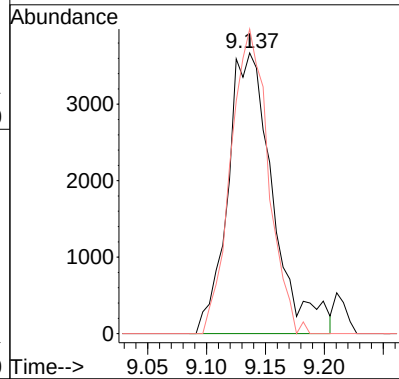
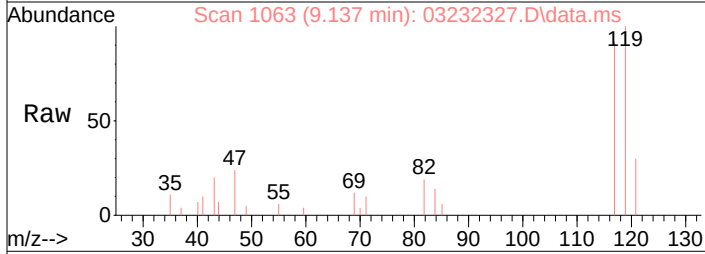
Tgt Ion:	78	Resp:	35199
Ion Ratio		Lower	Upper
78	100		
77	25.1	3.7	43.7





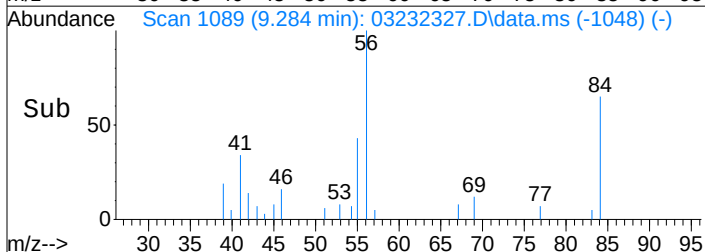
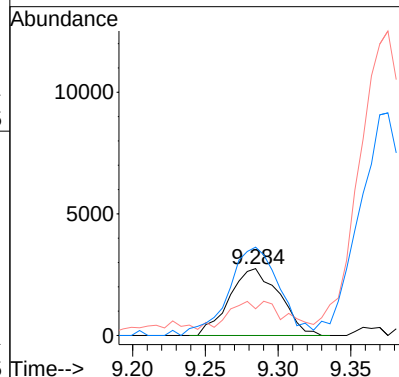
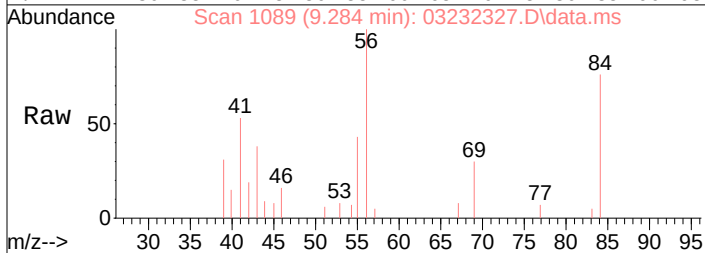
#42
Carbon Tetrachloride
Concen: 0.31 ng
RT: 9.14 min Scan# 1063
Delta R.T. -0.023 min
Lab File: 03232327.D
Acq: 23 Mar 2023 21:50

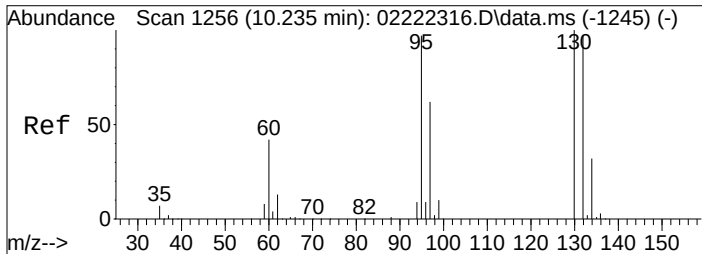
Tgt Ion: 117 Resp: 9759
Ion Ratio Lower Upper
117 100
119 90.6 75.7 115.7



#43
Cyclohexane
Concen: 0.21 ng
RT: 9.28 min Scan# 1089
Delta R.T. -0.017 min
Lab File: 03232327.D
Acq: 23 Mar 2023 21:50

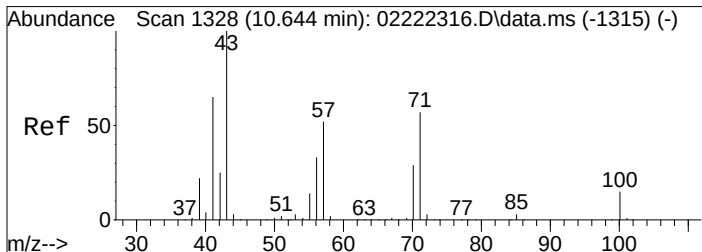
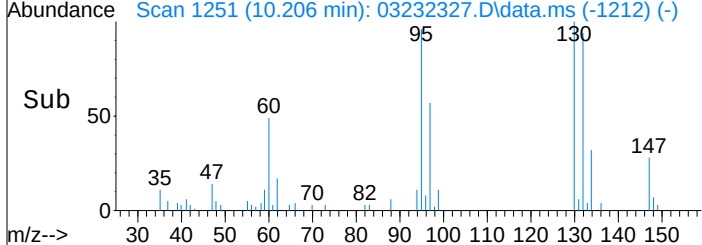
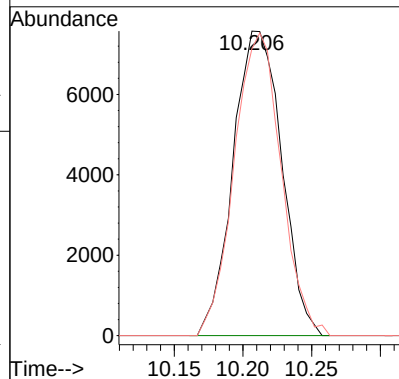
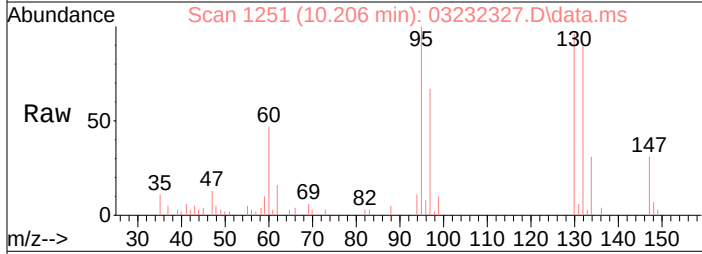
Tgt Ion: 84 Resp: 6582
Ion Ratio Lower Upper
84 100
69 45.7 20.0 60.0
56 133.6 98.5 138.5





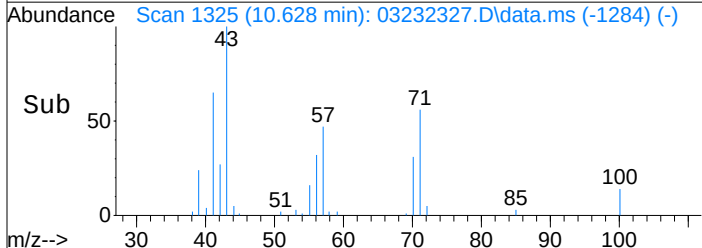
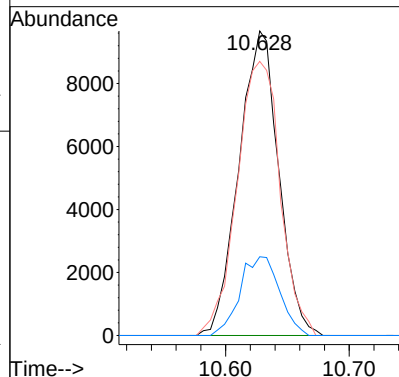
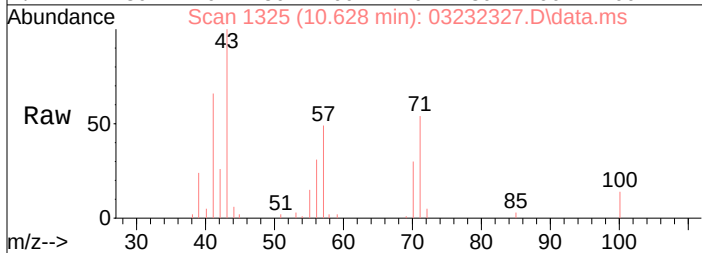
#47
 Trichloroethene
 Concen: 0.75 ng
 RT: 10.21 min Scan# 1251
 Delta R.T. -0.028 min
 Lab File: 03232327.D
 Acq: 23 Mar 2023 21:50

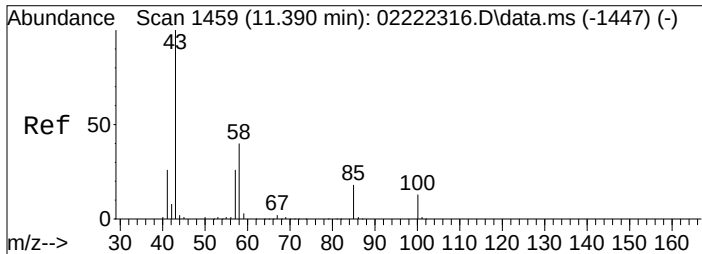
Tgt Ion: 130 Resp: 18647
 Ion Ratio Lower Upper
 130 100
 132 95.9 76.3 116.3



#51
 n-Heptane
 Concen: 1.06 ng
 RT: 10.63 min Scan# 1325
 Delta R.T. -0.017 min
 Lab File: 03232327.D
 Acq: 23 Mar 2023 21:50

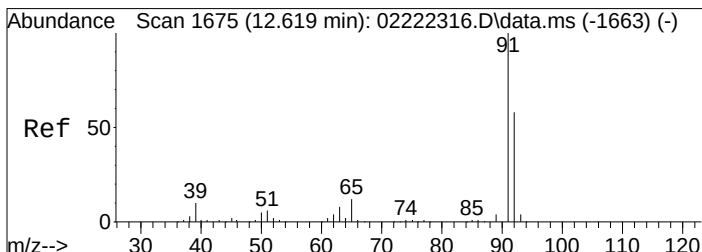
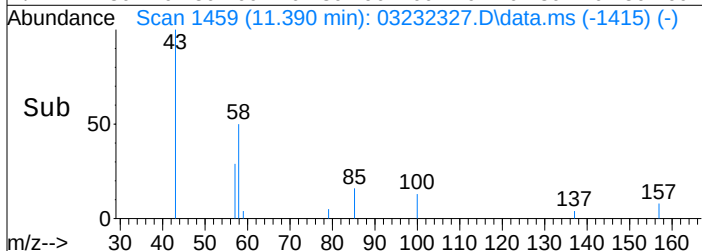
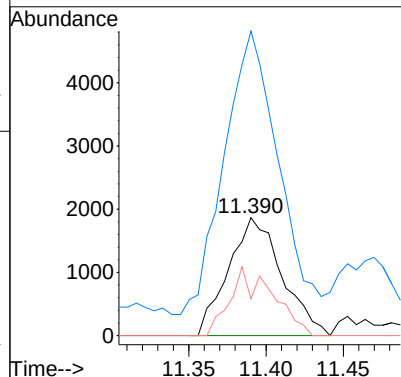
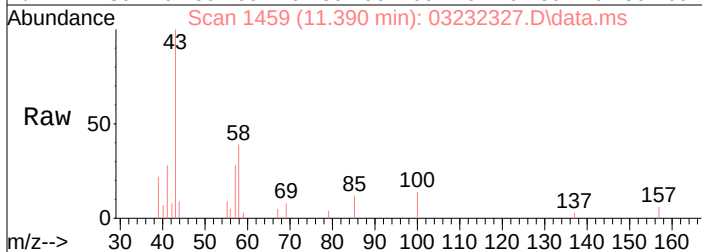
Tgt Ion: 71 Resp: 21689
 Ion Ratio Lower Upper
 71 100
 57 97.3 71.7 111.7
 100 25.7 5.8 45.8





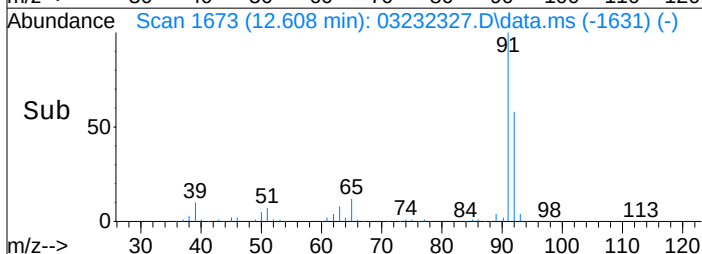
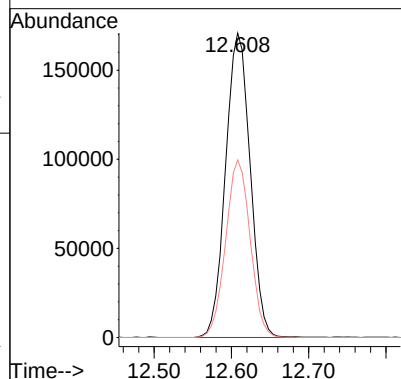
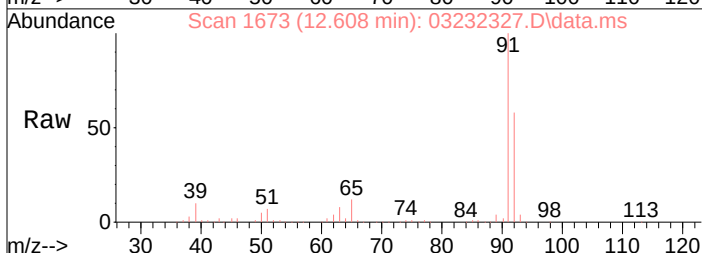
#53
 4-Methyl-2-pentanone
 Concen: 0.25 ng
 RT: 11.39 min Scan# 1459
 Delta R.T. 0.000 min
 Lab File: 03232327.D
 Acq: 23 Mar 2023 21:50

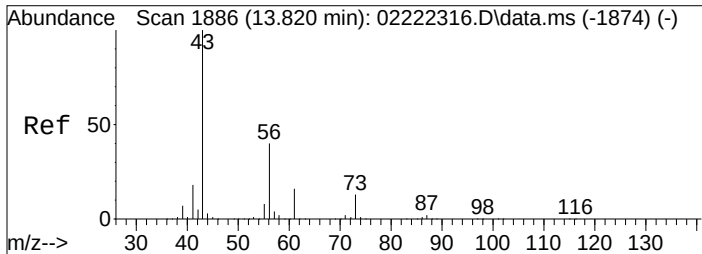
Tgt Ion:	58	Resp:	4503
Ion Ratio	Lower	Upper	
58	100		
85	46.3	38.6	58.0
43	269.8	202.2	303.2



#58
 Toluene
 Concen: 3.78 ng
 RT: 12.61 min Scan# 1673
 Delta R.T. -0.011 min
 Lab File: 03232327.D
 Acq: 23 Mar 2023 21:50

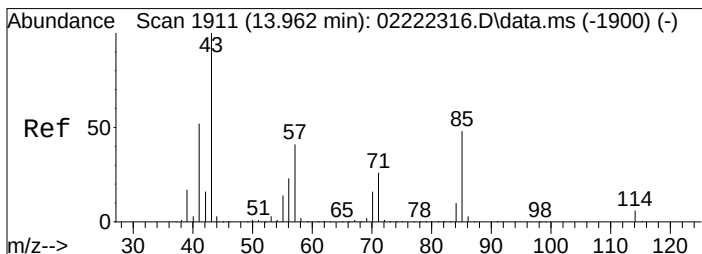
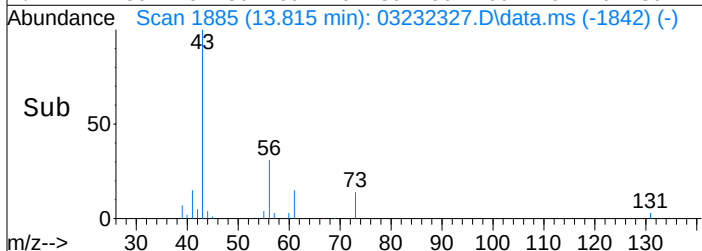
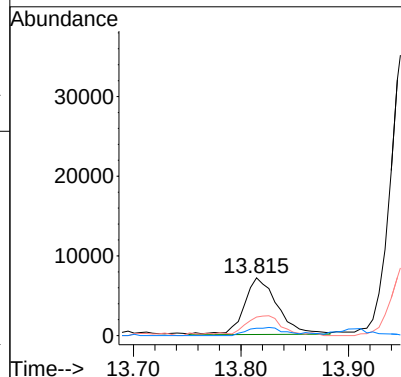
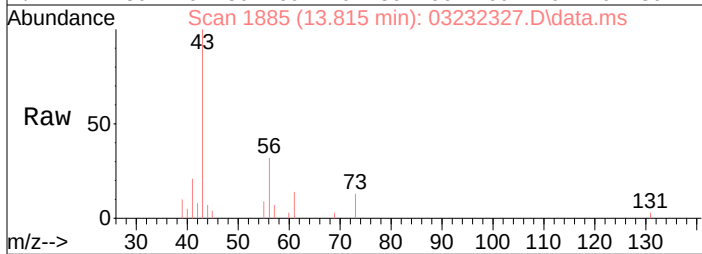
Tgt Ion:	91	Resp:	378065
Ion Ratio	Lower	Upper	
91	100		
92	58.1	38.0	78.0





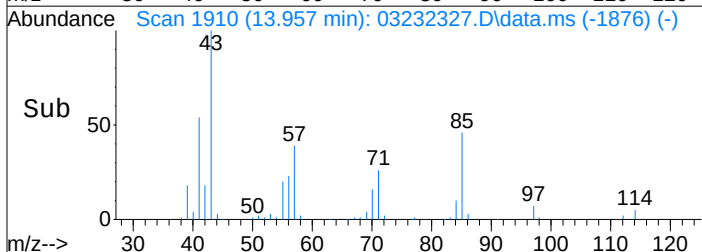
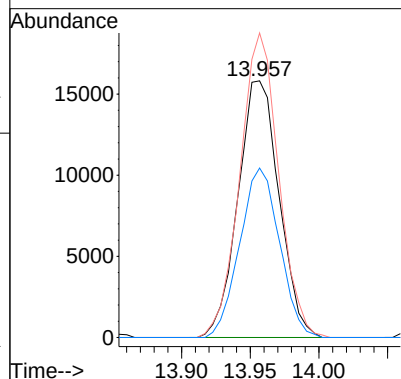
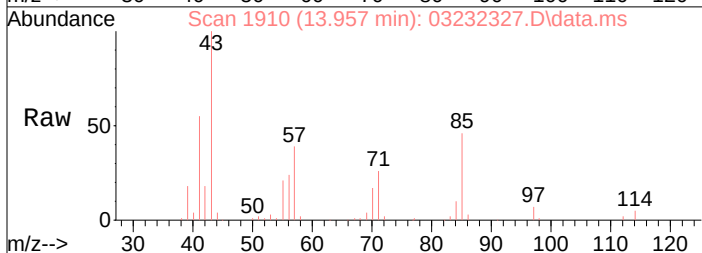
#62
n-Butyl Acetate
Concen: 0.28 ng
RT: 13.81 min Scan# 1885
Delta R.T. -0.005 min
Lab File: 03232327.D
Acq: 23 Mar 2023 21:50

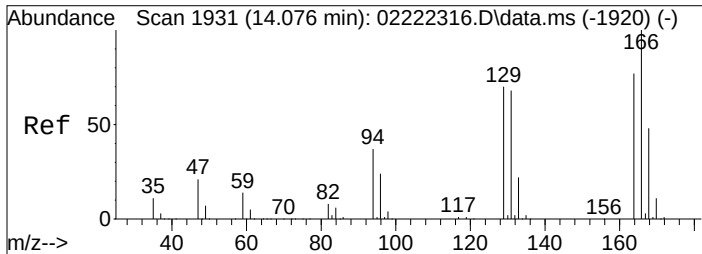
Tgt Ion: 43	Resp: 15311
Ion Ratio	Lower Upper
43	100
56	40.3 20.0 60.0
73	15.5 0.0 33.2



#63
n-Octane
Concen: 1.68 ng
RT: 13.96 min Scan# 1910
Delta R.T. -0.006 min
Lab File: 03232327.D
Acq: 23 Mar 2023 21:50

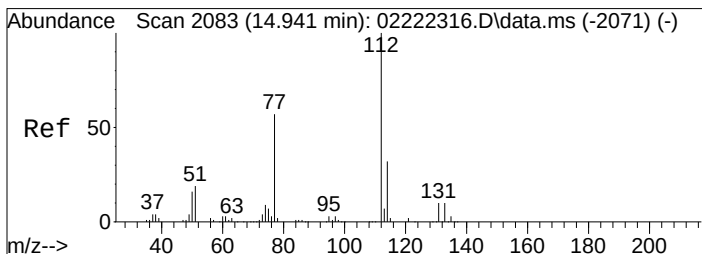
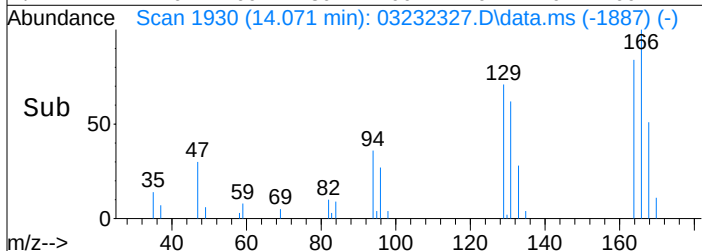
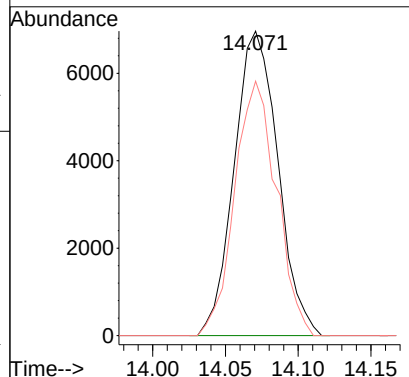
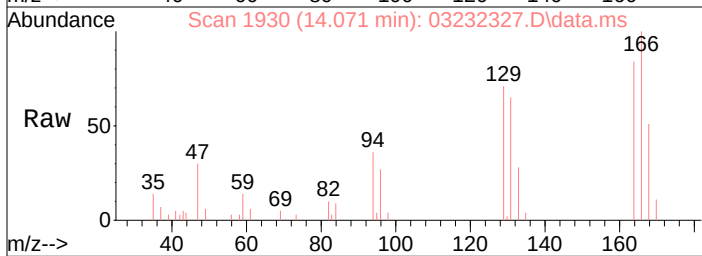
Tgt Ion: 57	Resp: 32997
Ion Ratio	Lower Upper
57	100
85	111.7 94.1 141.1
71	63.8 52.6 79.0





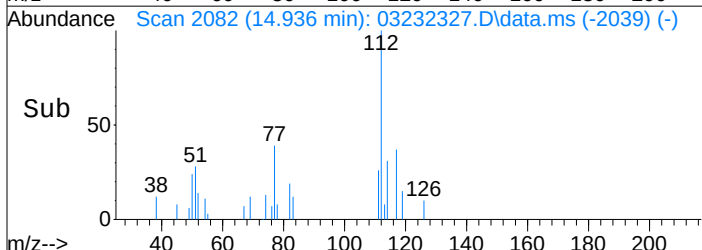
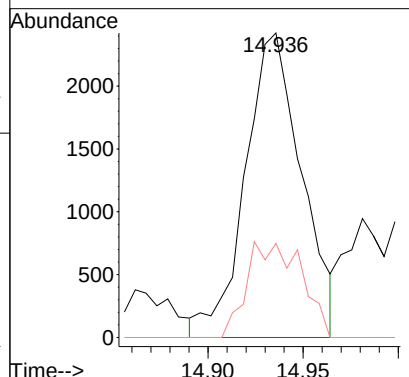
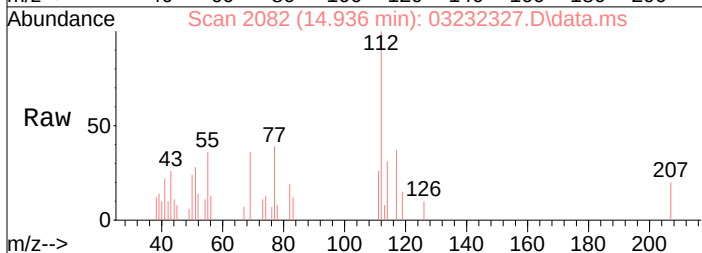
#64
 Tetrachloroethene
 Concen: 0.48 ng
 RT: 14.07 min Scan# 1930
 Delta R.T. -0.005 min
 Lab File: 03232327.D
 Acq: 23 Mar 2023 21:50

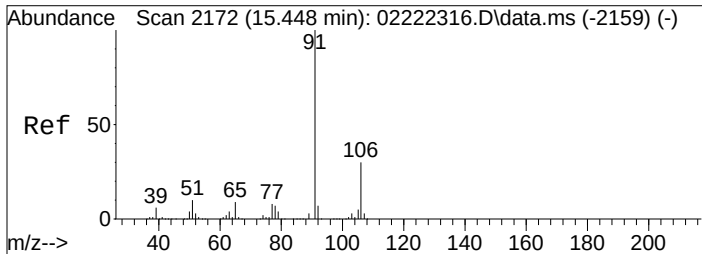
Tgt Ion:166	Resp:	14578
Ion Ratio	Lower	Upper
166	100	
164	80.1	57.3 97.3



#65
 Chlorobenzene
 Concen: 0.08 ng
 RT: 14.94 min Scan# 2082
 Delta R.T. -0.005 min
 Lab File: 03232327.D
 Acq: 23 Mar 2023 21:50

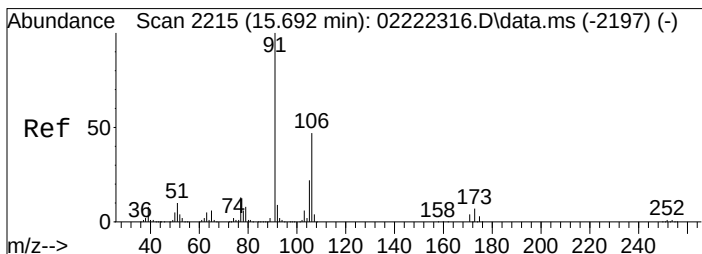
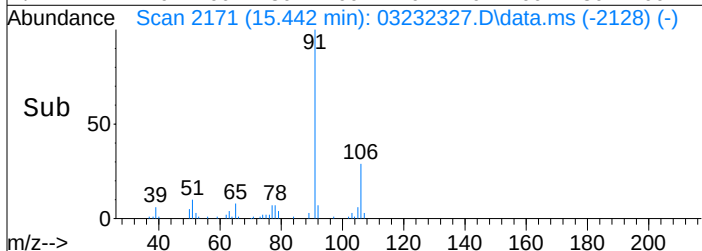
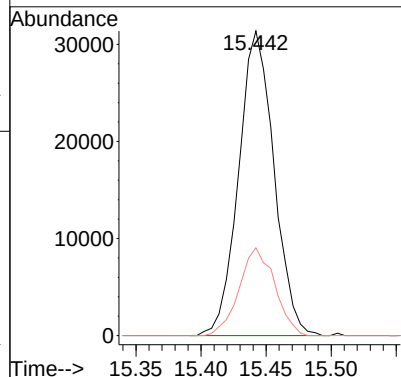
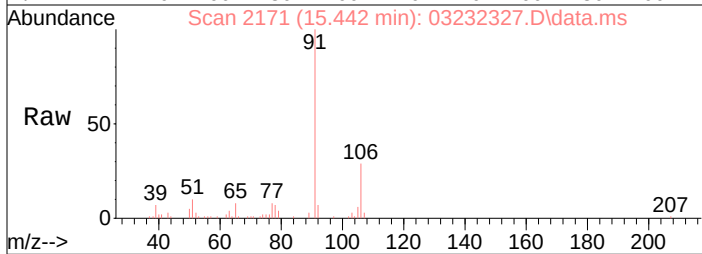
Tgt Ion:112	Resp:	4982
Ion Ratio	Lower	Upper
112	100	
114	30.4	12.1 52.1





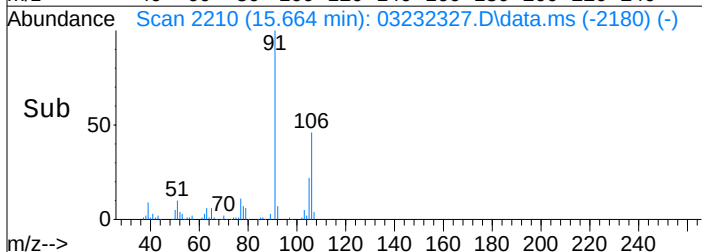
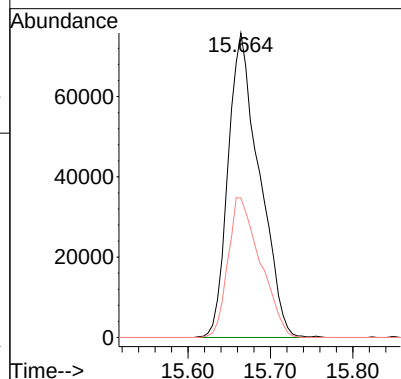
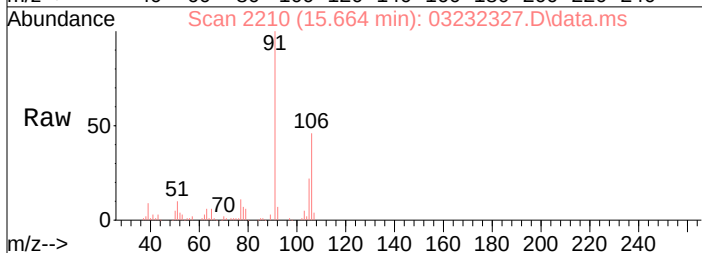
#66
 Ethylbenzene
 Concen: 0.50 ng
 RT: 15.44 min Scan# 2171
 Delta R.T. -0.006 min
 Lab File: 03232327.D
 Acq: 23 Mar 2023 21:50

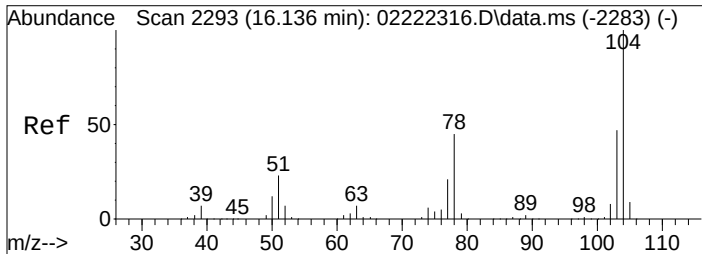
Tgt Ion:	91	Resp:	59314
Ion Ratio	Lower	Upper	
91	100		
106	29.0	10.4	50.4



#67
 m- & p-Xylenes
 Concen: 2.08 ng
 RT: 15.66 min Scan# 2210
 Delta R.T. -0.028 min
 Lab File: 03232327.D
 Acq: 23 Mar 2023 21:50

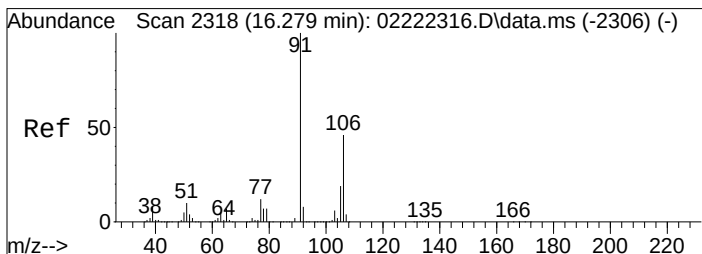
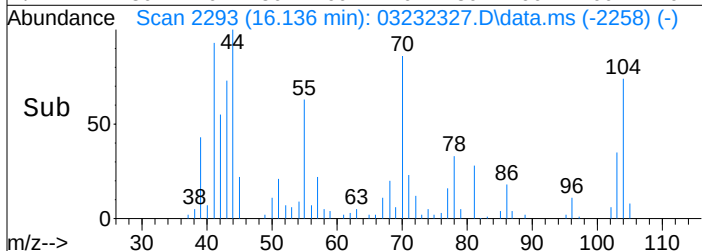
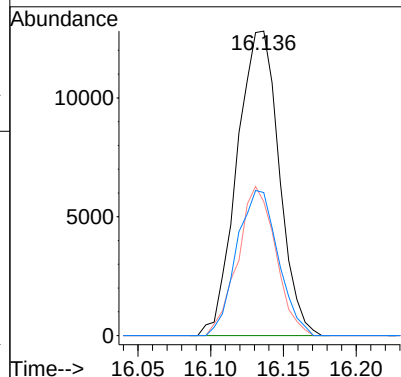
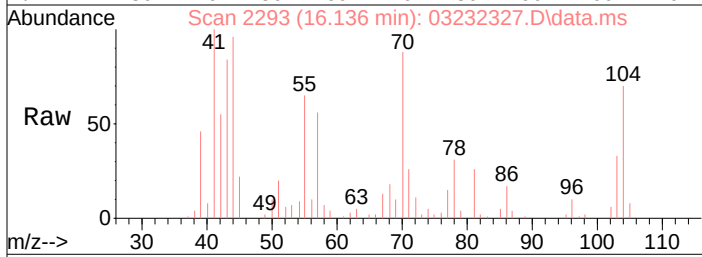
Tgt Ion:	91	Resp:	199897
Ion Ratio	Lower	Upper	
91	100		
106	47.4	26.2	66.2





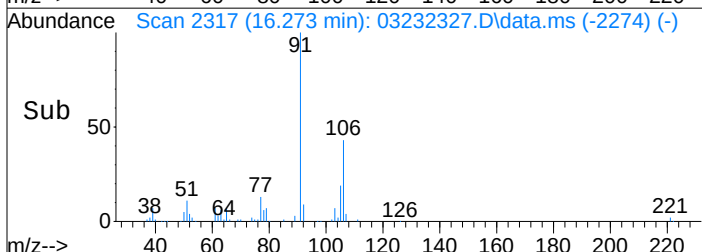
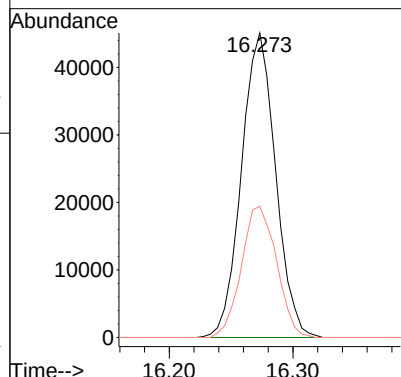
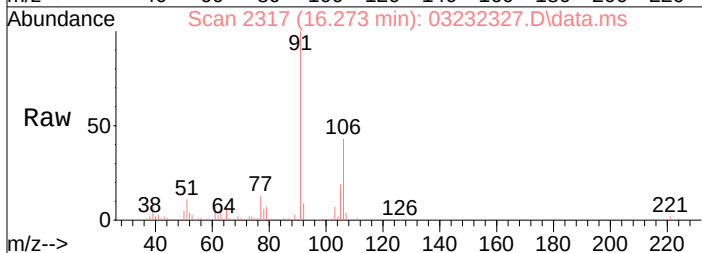
#69
Styrene
Concen: 0.39 ng
RT: 16.14 min Scan# 2293
Delta R.T. 0.000 min
Lab File: 03232327.D
Acq: 23 Mar 2023 21:50

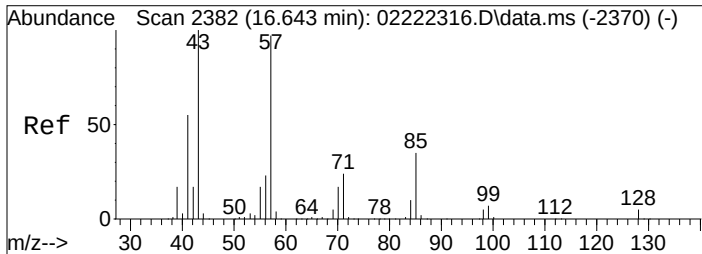
Tgt Ion: 104	Resp: 25799
Ion Ratio	Lower Upper
104 100	
78 44.2	24.7 64.7
103 46.9	27.8 67.8



#70
o-Xylene
Concen: 0.94 ng
RT: 16.27 min Scan# 2317
Delta R.T. -0.006 min
Lab File: 03232327.D
Acq: 23 Mar 2023 21:50

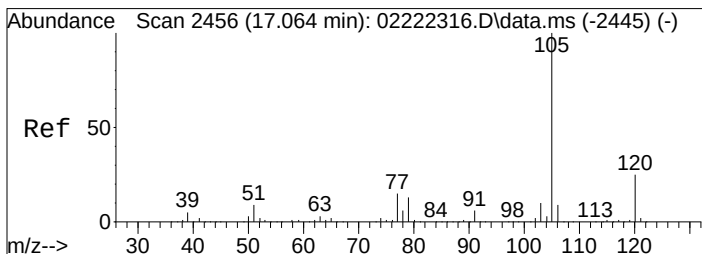
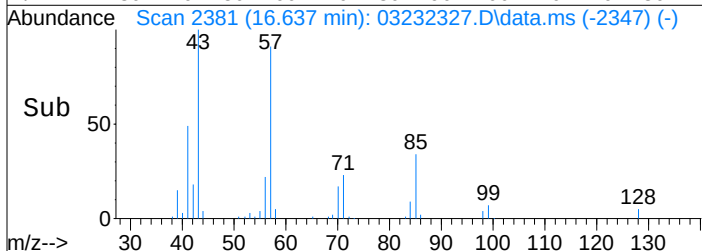
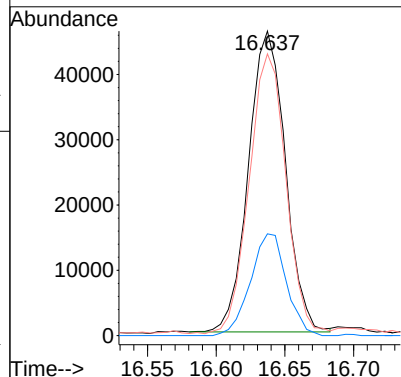
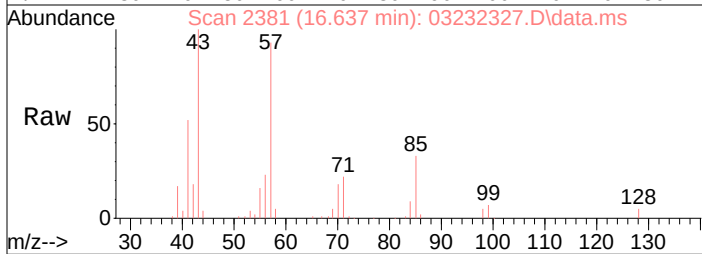
Tgt Ion: 91	Resp: 86676
Ion Ratio	Lower Upper
91 100	
106 44.4	25.4 65.4





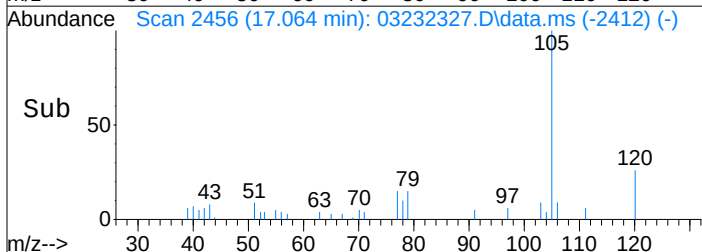
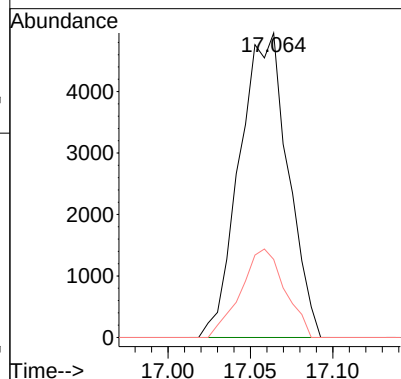
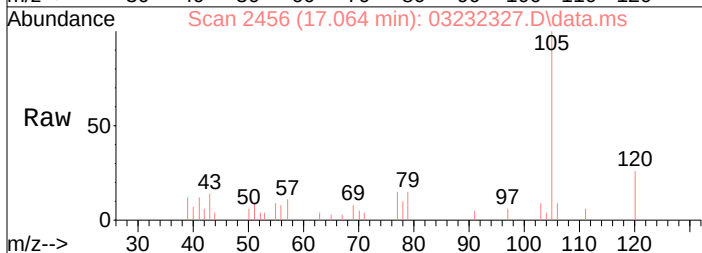
#71
n-Nonane
Concen: 1.94 ng
RT: 16.64 min Scan# 2381
Delta R.T. -0.006 min
Lab File: 03232327.D
Acq: 23 Mar 2023 21:50

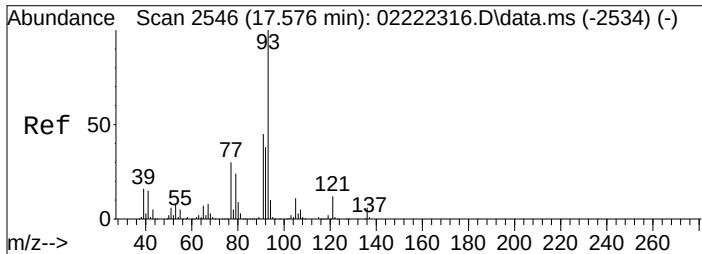
Tgt Ion:	43	Resp:	86125
Ion Ratio		Lower	Upper
43	100		
57	92.4	74.2	114.2
85	32.9	14.2	54.2



#74
Cumene
Concen: 0.09 ng
RT: 17.06 min Scan# 2456
Delta R.T. 0.000 min
Lab File: 03232327.D
Acq: 23 Mar 2023 21:50

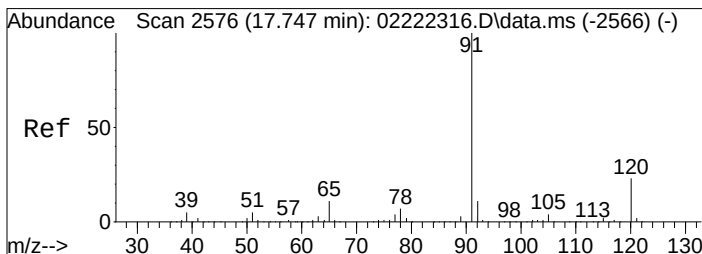
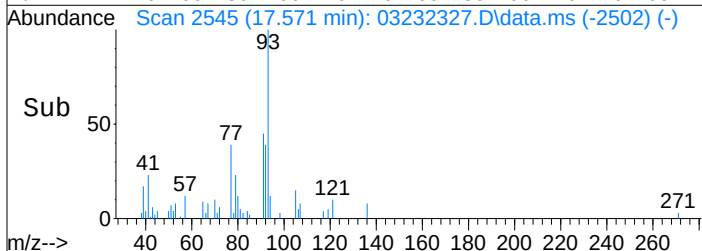
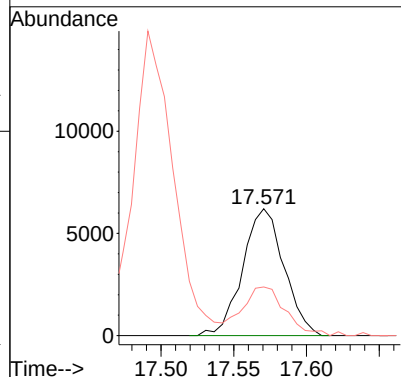
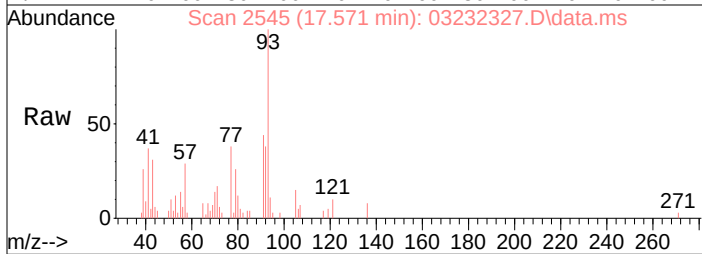
Tgt Ion:	105	Resp:	10090
Ion Ratio		Lower	Upper
105	100		
120	26.6	5.2	45.2





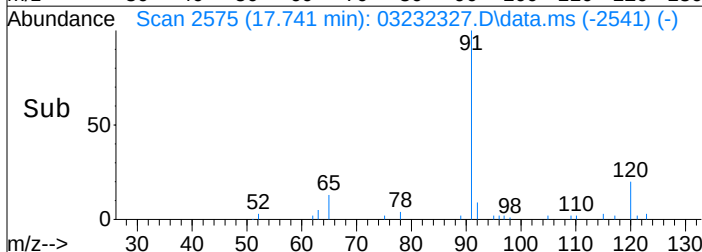
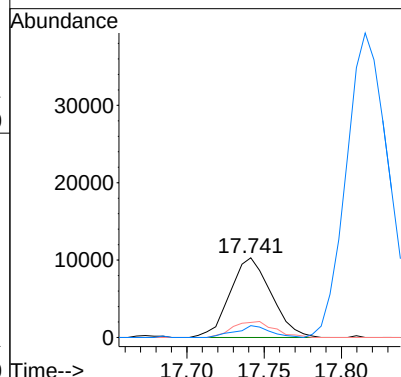
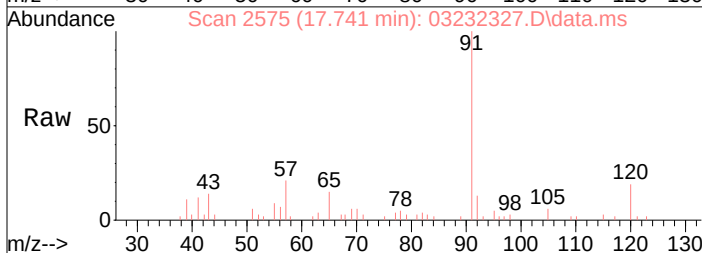
#75
 alpha-Pinene
 Concen: 0.24 ng
 RT: 17.57 min Scan# 2545
 Delta R.T. -0.006 min
 Lab File: 03232327.D
 Acq: 23 Mar 2023 21:50

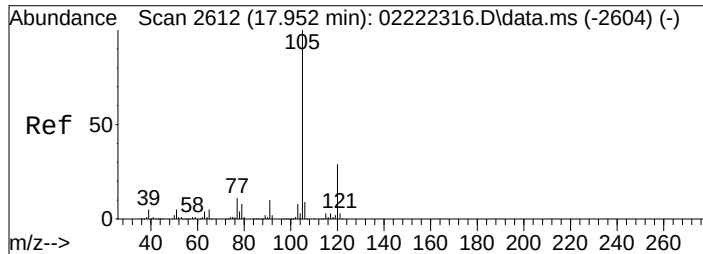
Tgt Ion:	93	Resp:	12281
Ion Ratio		Lower	Upper
93	100		
77	40.4	11.1	51.1



#76
 n-Propylbenzene
 Concen: 0.14 ng
 RT: 17.74 min Scan# 2575
 Delta R.T. -0.005 min
 Lab File: 03232327.D
 Acq: 23 Mar 2023 21:50

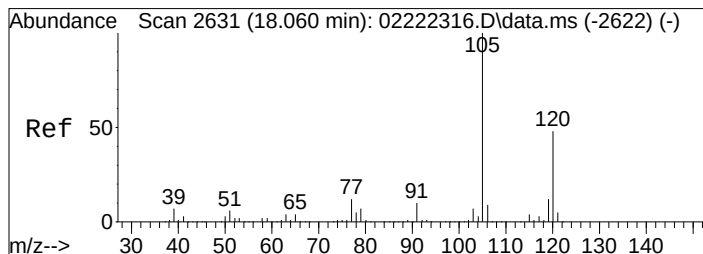
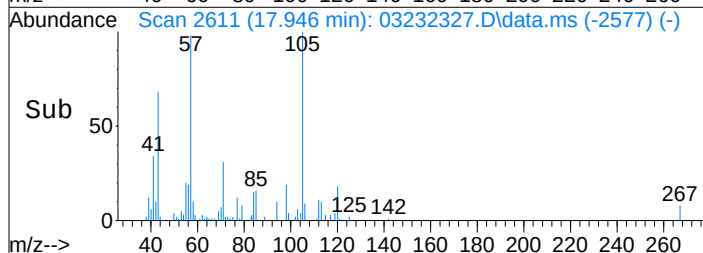
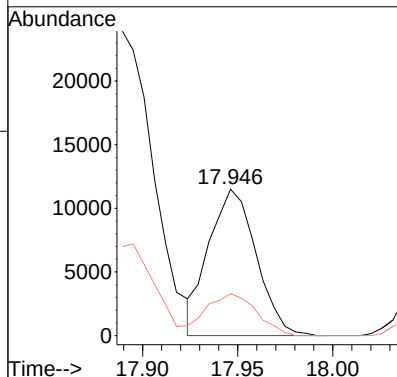
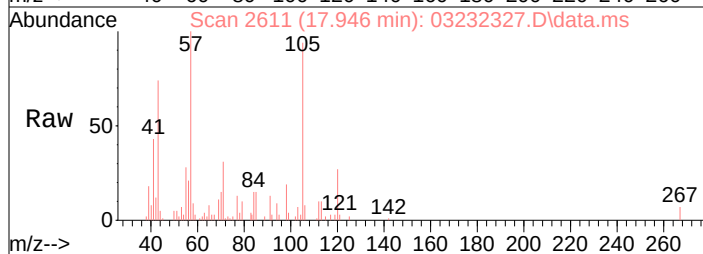
Tgt Ion:	91	Resp:	19108
Ion Ratio		Lower	Upper
91	100		
120	20.4	2.7	42.7
65	12.3	0.0	30.7





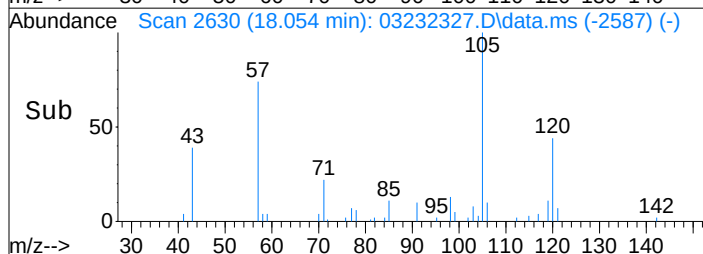
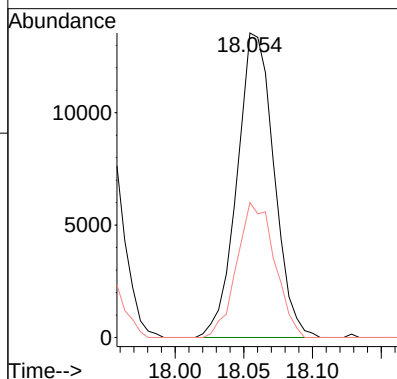
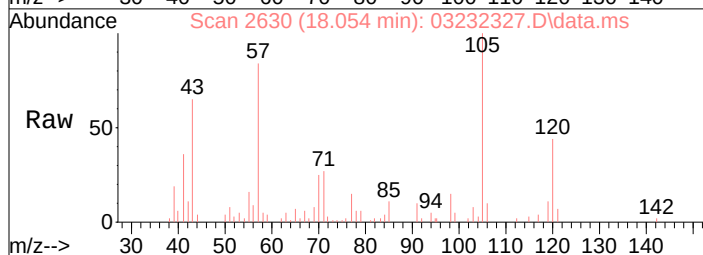
#78
 4-Ethyltoluene
 Concen: 0.19 ng
 RT: 17.95 min Scan# 2611
 Delta R.T. -0.006 min
 Lab File: 03232327.D
 Acq: 23 Mar 2023 21:50

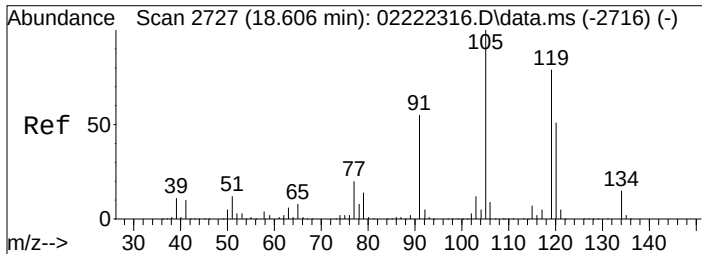
Tgt Ion:105 Resp: 19918
 Ion Ratio Lower Upper
 105 100
 120 30.0 9.1 49.1



#79
 1,3,5-Trimethylbenzene
 Concen: 0.27 ng
 RT: 18.05 min Scan# 2630
 Delta R.T. -0.006 min
 Lab File: 03232327.D
 Acq: 23 Mar 2023 21:50

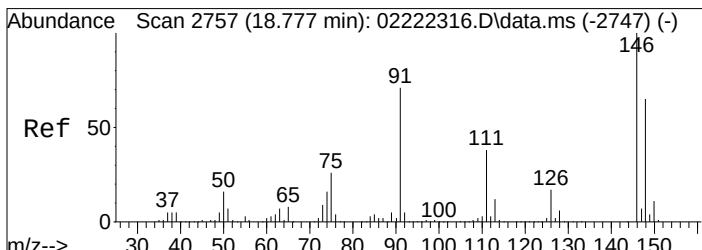
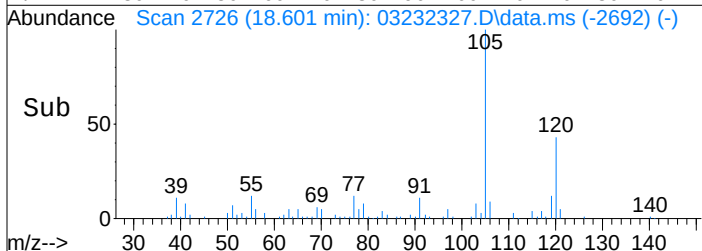
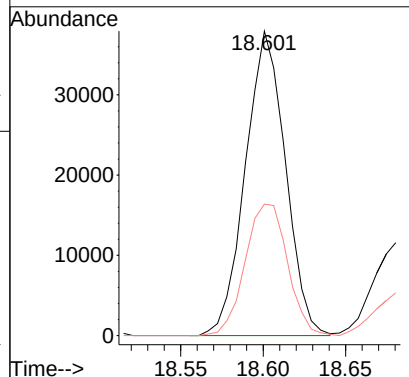
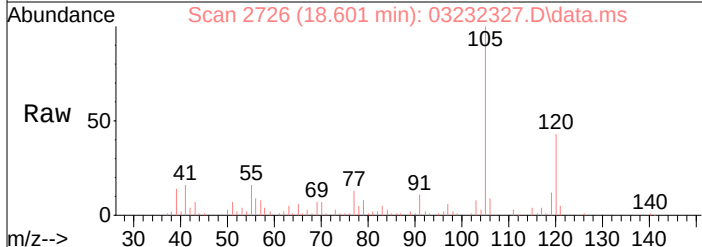
Tgt Ion:105 Resp: 25362
 Ion Ratio Lower Upper
 105 100
 120 45.4 28.4 68.4





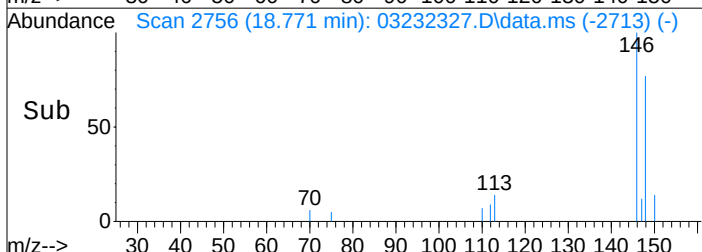
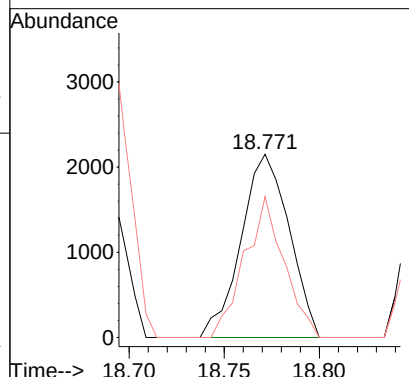
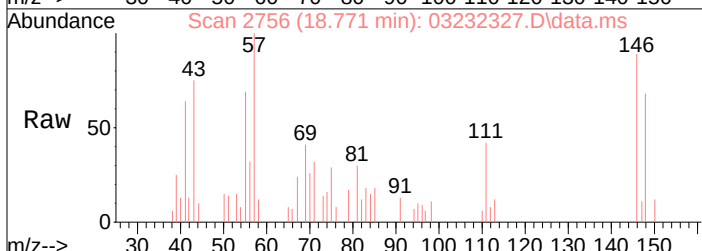
#82
 1,2,4-Trimethylbenzene
 Concen: 0.69 ng
 RT: 18.60 min Scan# 2726
 Delta R.T. -0.006 min
 Lab File: 03232327.D
 Acq: 23 Mar 2023 21:50

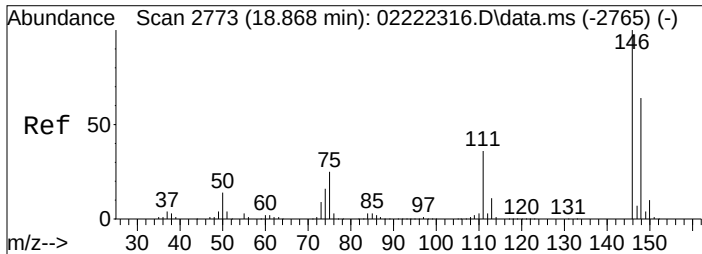
Tgt Ion:105	Resp:	64174
Ion Ratio	Lower	Upper
105	100	
120	45.7	32.8 72.8



#85
 1,3-Dichlorobenzene
 Concen: 0.07 ng
 RT: 18.77 min Scan# 2756
 Delta R.T. -0.006 min
 Lab File: 03232327.D
 Acq: 23 Mar 2023 21:50

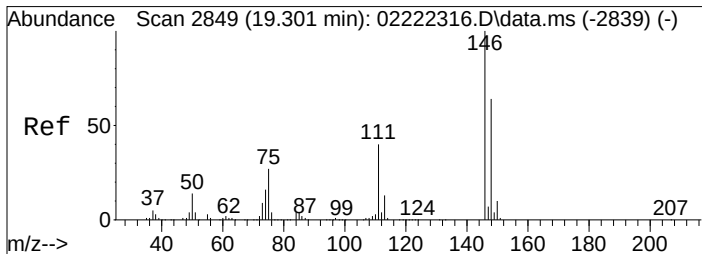
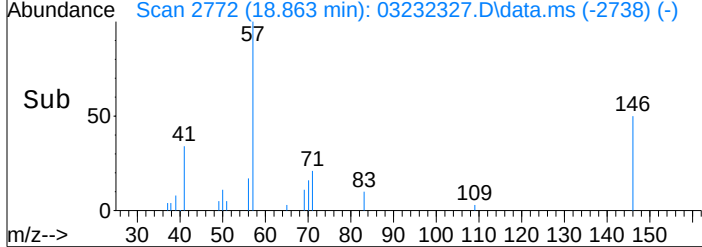
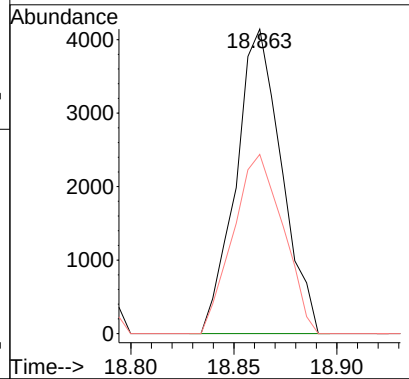
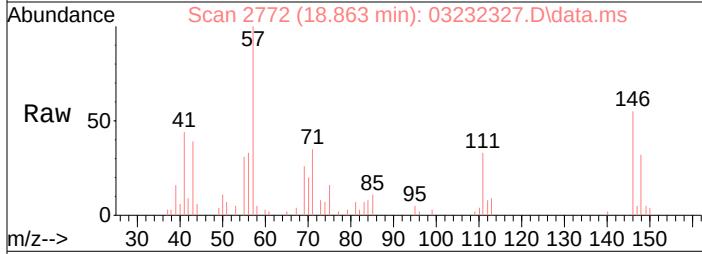
Tgt Ion:146	Resp:	3777
Ion Ratio	Lower	Upper
146	100	
148	63.1	44.4 84.4





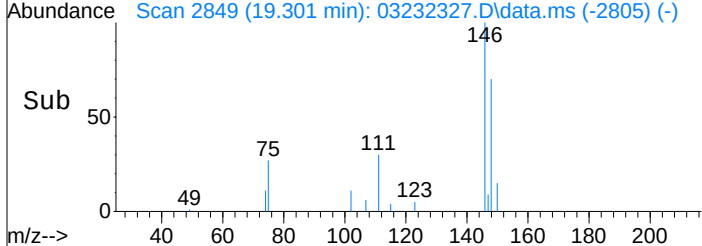
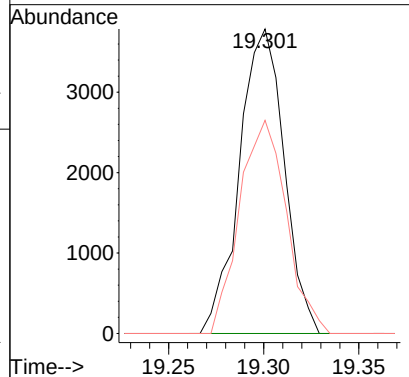
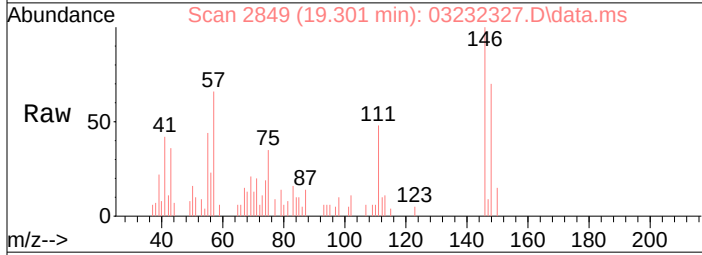
#86
 1,4-Dichlorobenzene
 Concen: 0.11 ng
 RT: 18.86 min Scan# 2772
 Delta R.T. -0.005 min
 Lab File: 03232327.D
 Acq: 23 Mar 2023 21:50

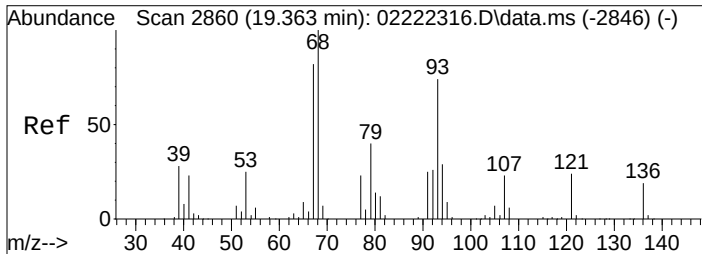
Tgt Ion:146	Resp:	6386
Ion Ratio	Lower	Upper
146	100	
148	64.7	44.7 84.7



#90
 1,2-Dichlorobenzene
 Concen: 0.11 ng
 RT: 19.30 min Scan# 2849
 Delta R.T. 0.000 min
 Lab File: 03232327.D
 Acq: 23 Mar 2023 21:50

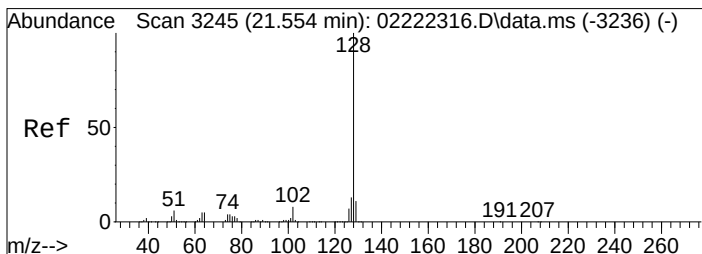
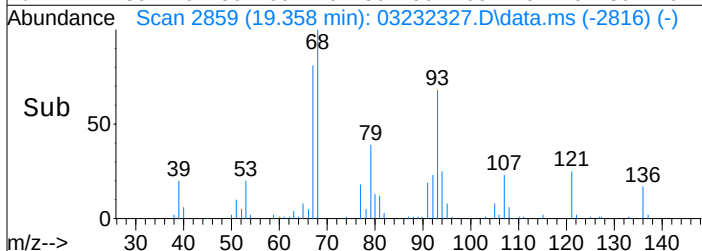
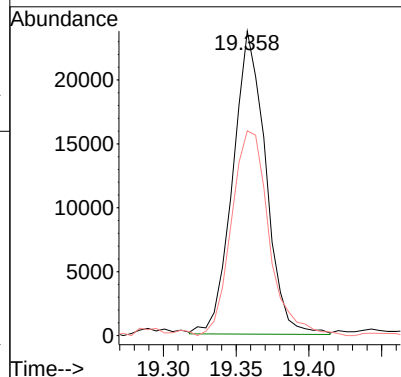
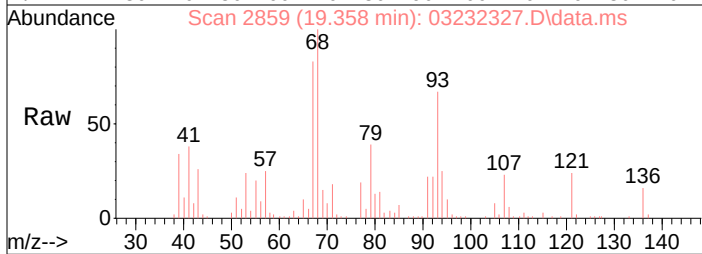
Tgt Ion:146	Resp:	6188
Ion Ratio	Lower	Upper
146	100	
148	73.4	44.4 84.4





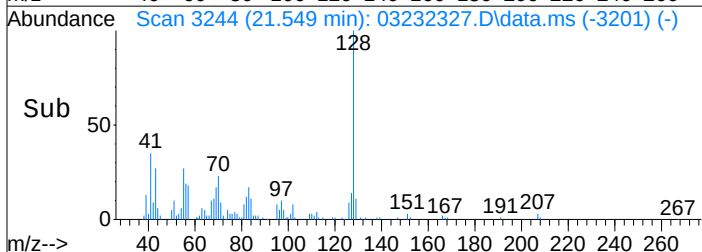
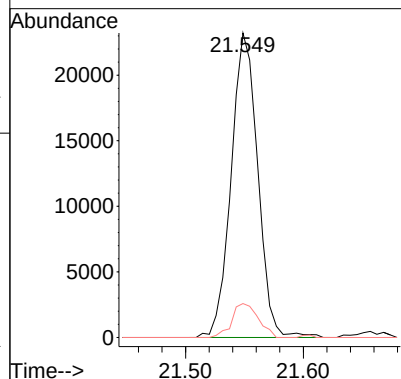
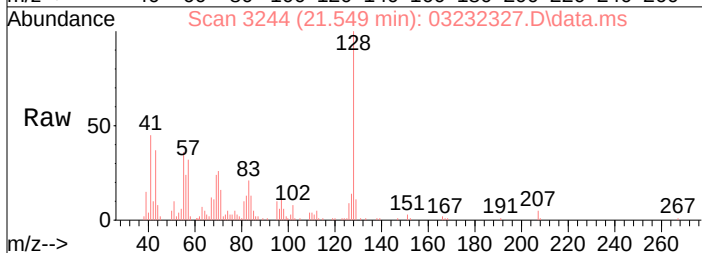
#91
d-Limonene
Concen: 1.18 ng
RT: 19.36 min Scan# 2859
Delta R.T. -0.006 min
Lab File: 03232327.D
Acq: 23 Mar 2023 21:50

Tgt Ion: 68 Resp: 37239
Ion Ratio Lower Upper
68 100
93 77.3 54.8 94.8



#95
Naphthalene
Concen: 0.36 ng
RT: 21.55 min Scan# 3244
Delta R.T. -0.006 min
Lab File: 03232327.D
Acq: 23 Mar 2023 21:50

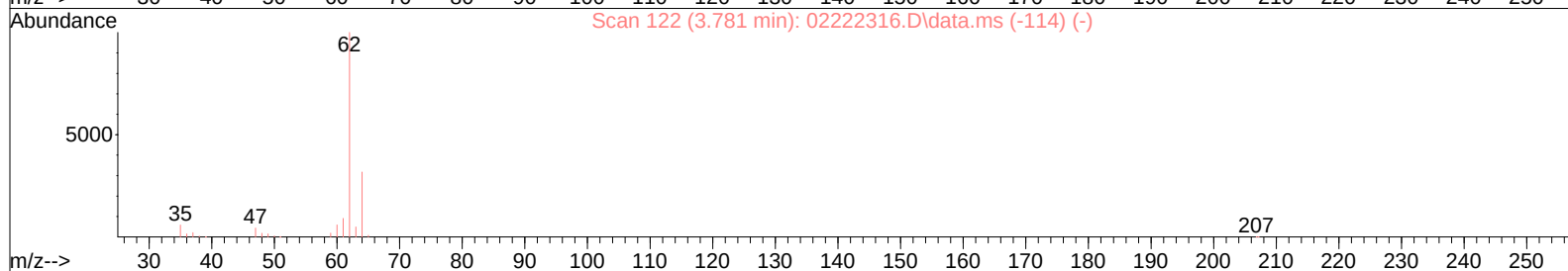
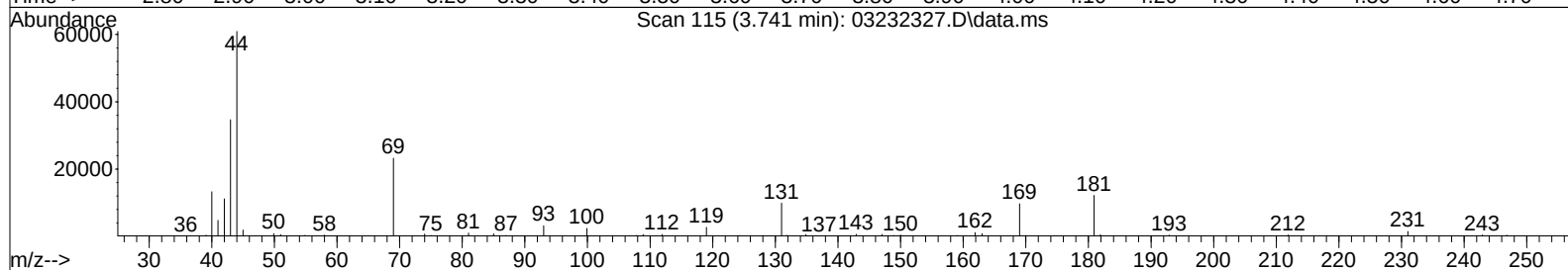
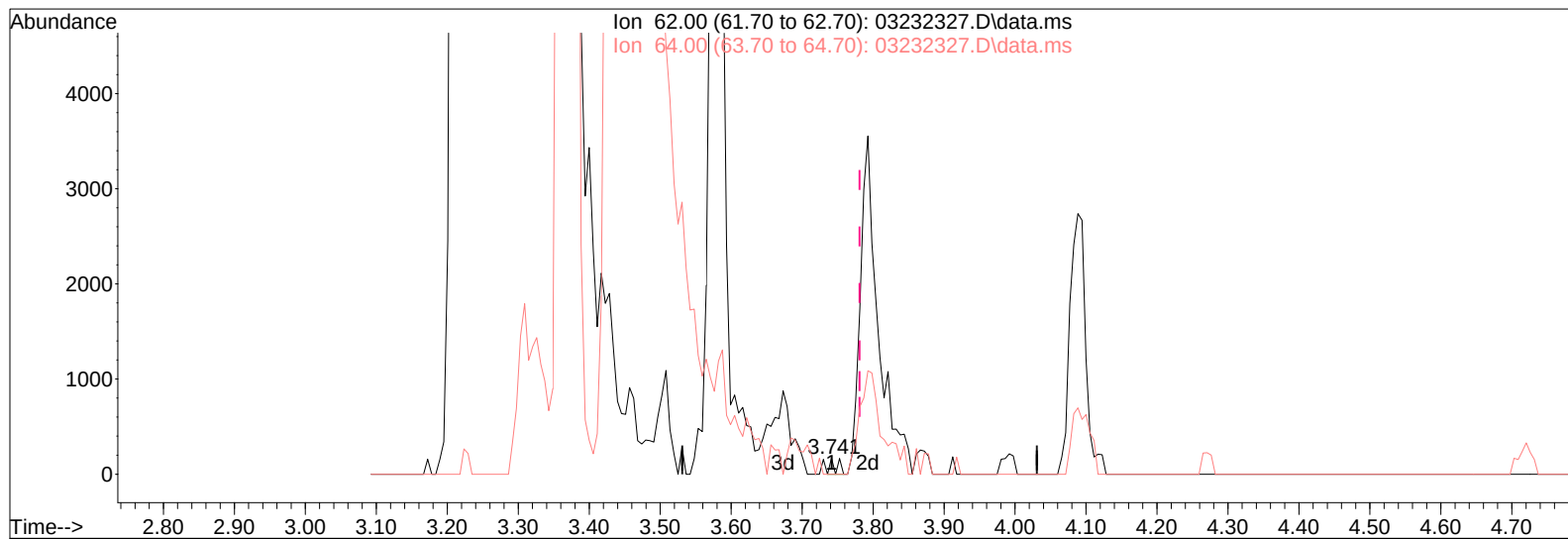
Tgt Ion: 128 Resp: 36456
Ion Ratio Lower Upper
128 100
129 11.1 0.0 30.9



Data File : I:\MS13\DATA\2023_03\23\03232327.D
Acq On : 23 Mar 2023 21:50
Sample : P2301250-003 (1000mL)
Misc : S35-01202301

Vial: 10
Operator: TZ
Inst : MS13

Quant Time: Mar 27 09:51:35 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03232327.D\data.ms

(6) Vinyl Chloride (T)

3.741min (-0.040) 0.00ng

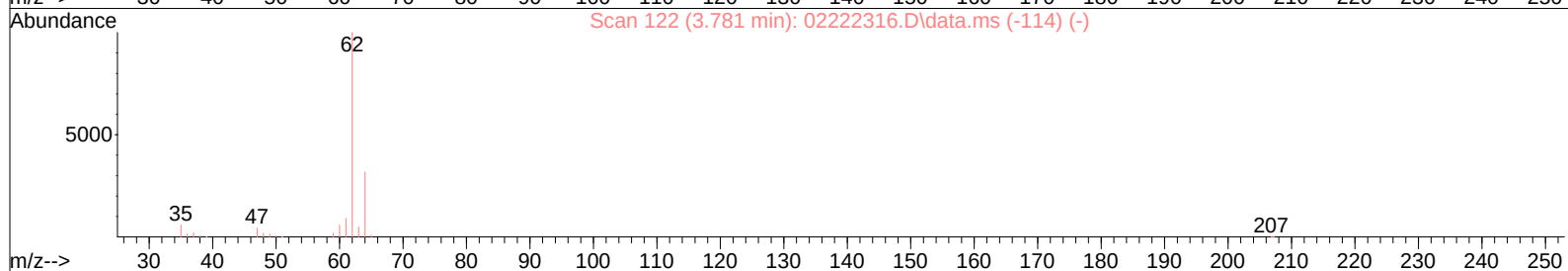
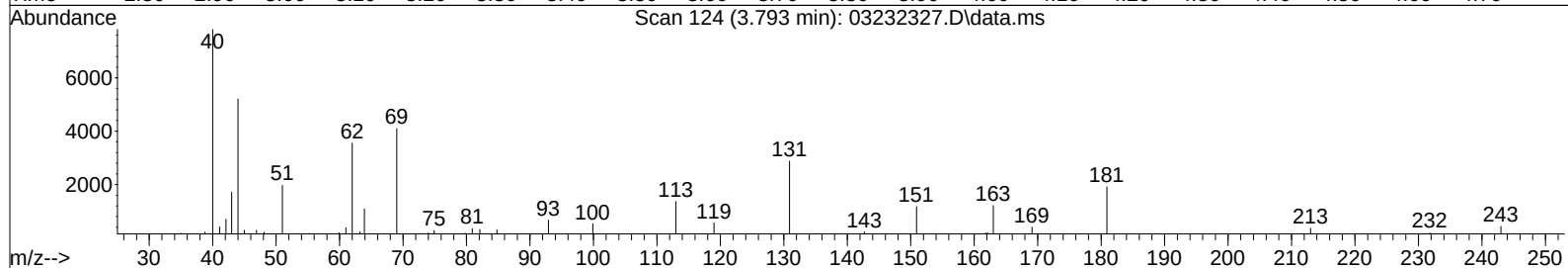
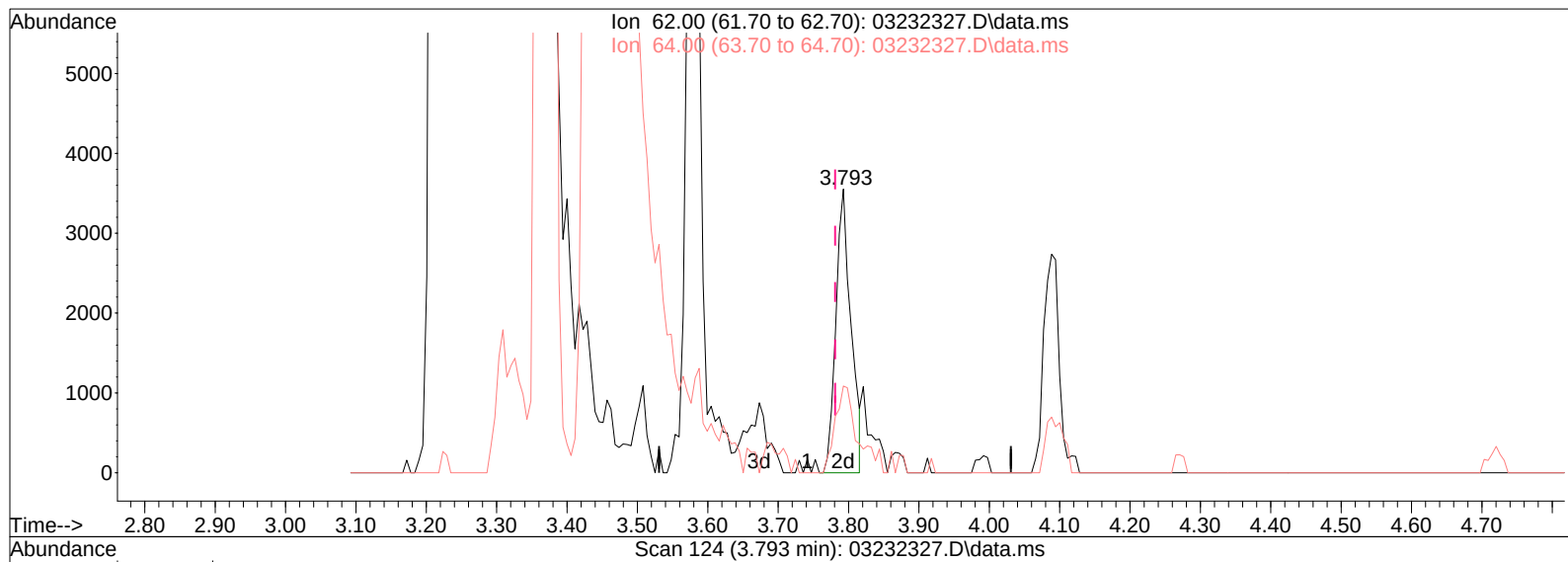
response 114

Ion	Exp%	Act%
62.00	100	100
64.00	31.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data File : I:\MS13\DATA\2023_03\23\03232327.D
Acq On : 23 Mar 2023 21:50
Sample : P2301250-003 (1000mL)
Misc : S35-01202301

Vial: 10
Operator: TZ
Inst : MS13

Quant Time: Mar 27 09:51:35 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03232327.D\data.ms

(6) Vinyl Chloride (T)

3.793min (+0.012) 0.17ng m

response 5298

Ion	Exp%	Act%
62.00	100	100
64.00	31.80	34.54
0.00	0.00	0.00
0.00	0.00	0.00

MP

TZ 3/27/23

3/28/23

Data File : I:\MS13\DATA\2023_03\23\03232327.D
 Acq On : 23 Mar 2023 21:50
 Sample : P2301250-003 (1000mL)
 Misc : S35-01202301

Vial: 10
 Operator: TZ
 Inst : MS13

Tz 3/27/23

Quant Time: Mar 27 15:58:17 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.32	130	248564	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	9.38	114	1090715	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	14.88	54	204220	12.500	ng	0.00

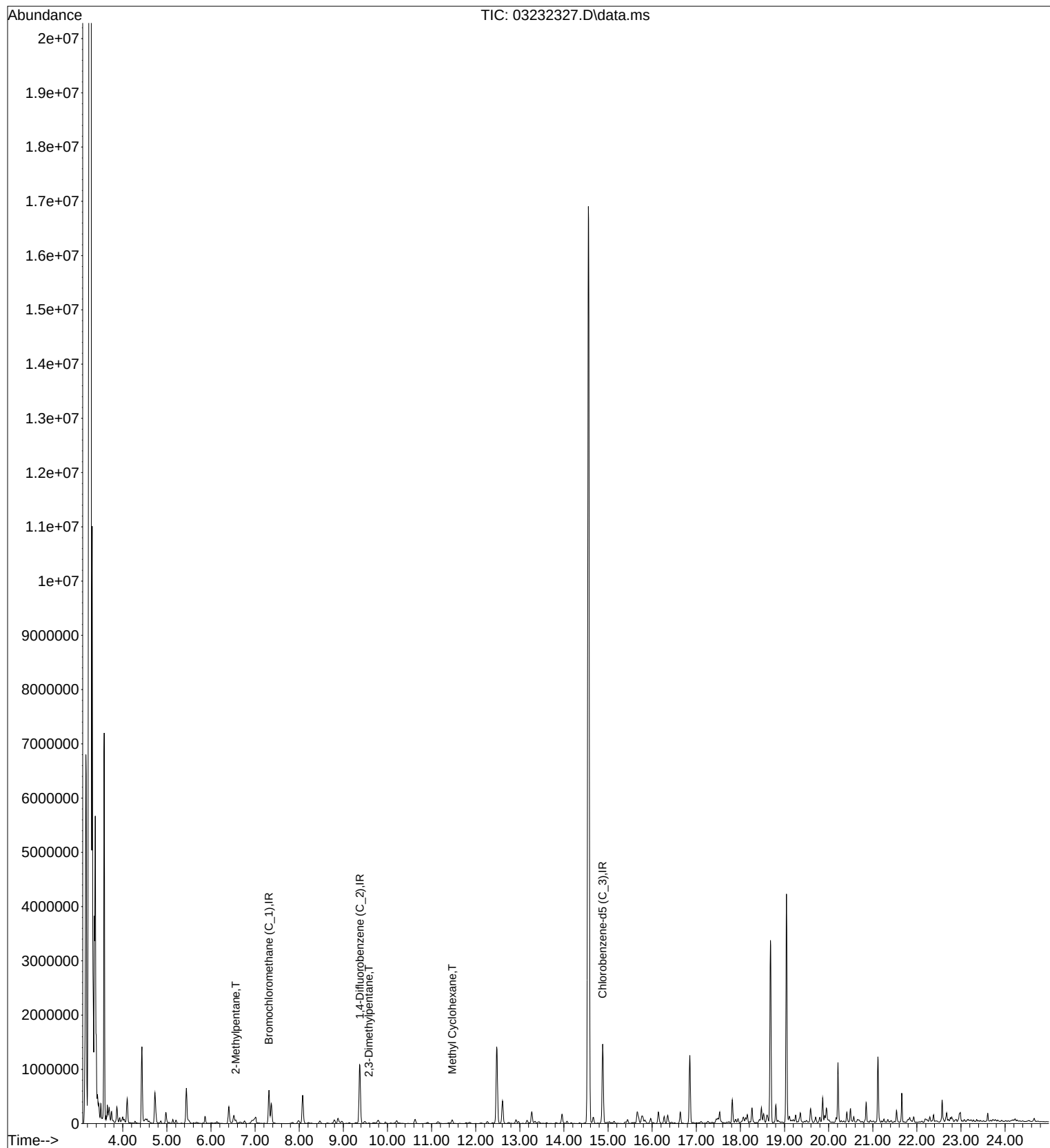
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	0.00	85	0	N.D.	d	
3) 1,1,1,2-Tetrafluoroeth...	0.00	83	0	N.D.	d	
4) 1,1-Difluoroethane	0.00	65	0	N.D.	d	
5) Chlorodifluoromethane ...	0.00	67	0	N.D.	d	
6) 1-Chloro-1,1-Difluoroe...	3.63	65	2679	N.D.		
7) Dichlorofluoromethane ...	4.37	67	122	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	4.65	83	831	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	0.00	43	0	N.D.	d	
12) 2-Methylpentane	6.56	71	11671	0.672	ng	# 5
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	9.14	84	1253	N.D.		
17) 2,3-Dimethylpentane	9.58	56	5392	0.168	ng	92
18) Dibromomethane	9.87	174	468	N.D.		
20) Methyl Cyclohexane	11.47	55	29409	0.865	ng	83
21) 1,3-Dichloropropane	12.61	76	1534	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	15.23	91	398	N.D.		
24) 1,2,3-Trichloropropane	0.00	75	0	N.D.	d	
25) Bromobenzene	17.06	77	1751	N.D.		
26) 2-Chlorotoluene	17.67	91	255	N.D.		
27) 4-Chlorotoluene	0.00	91	0	N.D.	d	
28) Indane	19.39	117	6964	N.D.		
29) Indene	19.51	115	1915	N.D.		
30) 1,2,4,5-Tetramethylben...	20.65	119	5728	N.D.		
31) 1,2,3,4-Tetramethylben...	20.70	119	8389	N.D.		
32) 1,2,3,5-Tetramethylben...	21.14	119	4244	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\23\03232327.D
Acq On : 23 Mar 2023 21:50
Sample : P2301250-003 (1000mL)
Misc : S35-01202301

Vial: 10
Operator: TZ
Inst : MS13

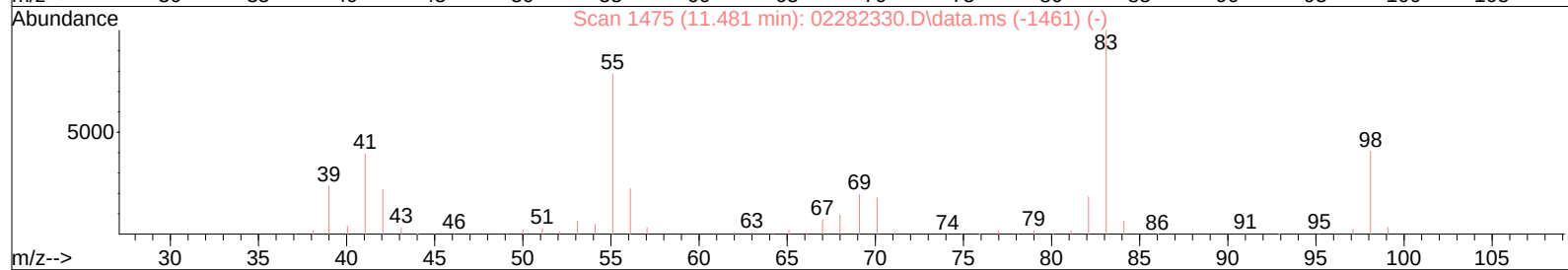
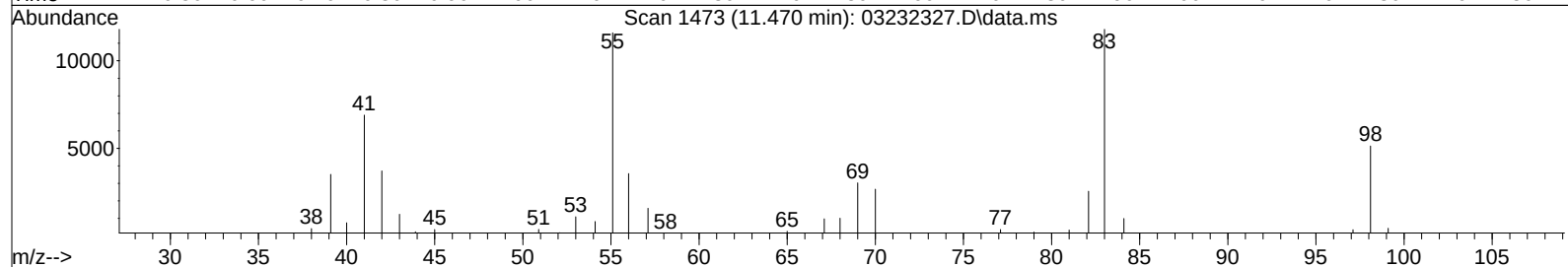
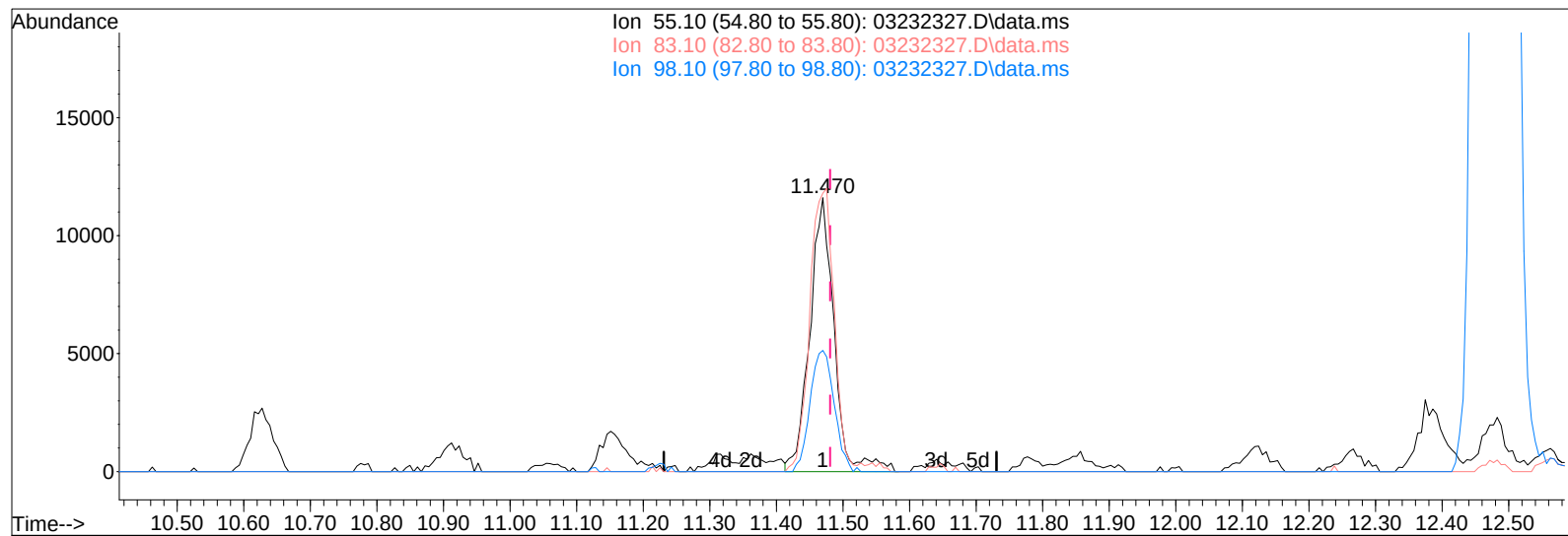
Quant Time: Mar 27 15:58:17 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\23\03232327.D
Acq On : 23 Mar 2023 21:50
Sample : P2301250-003 (1000mL)
Misc : S35-01202301

Vial: 10
Operator: TZ
Inst : MS13

Quant Time: Mar 27 14:40:06 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03232327.D\data.ms

(20) Methyl Cyclohexane (T)

11.470min (-0.011) 0.87ng

response 29409

Ion	Exp%	Act%
55.10	100	100
83.10	128.30	106.32
98.10	53.10	43.97
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG3

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01454

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.41 Final Pressure (psig): 3.84

Container Dilution Factor: 1.64

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	0.81	0.87	0.14	0.16	0.18	0.029	J
74-87-3	Chloromethane	ND	0.34	0.14	ND	0.17	0.068	
75-01-4	Vinyl Chloride	ND	0.18	0.093	ND	0.071	0.037	
74-83-9	Bromomethane	ND	0.34	0.12	ND	0.089	0.031	
75-00-3	Chloroethane	ND	0.34	0.11	ND	0.13	0.041	
67-64-1	Acetone	26	8.6	2.0	11	3.6	0.83	
75-69-4	Trichlorofluoromethane	0.35	0.85	0.13	0.062	0.15	0.024	J
75-35-4	1,1-Dichloroethene	ND	0.18	0.12	ND	0.046	0.031	
75-09-2	Methylene Chloride	2.1	0.87	0.25	0.61	0.25	0.071	
76-13-1	Trichlorotrifluoroethane	0.15	0.89	0.12	0.019	0.12	0.016	J
75-15-0	Carbon Disulfide	0.33	1.8	0.26	0.11	0.56	0.084	J
156-60-5	trans-1,2-Dichloroethene	0.16	0.18	0.12	0.040	0.046	0.031	J
75-34-3	1,1-Dichloroethane	1.6	0.18	0.13	0.39	0.045	0.032	
1634-04-4	Methyl tert-Butyl Ether	ND	0.89	0.10	ND	0.25	0.029	
78-93-3	2-Butanone (MEK)	1.0	1.7	0.18	0.35	0.58	0.061	J
156-59-2	cis-1,2-Dichloroethene	3.8	0.18	0.12	0.97	0.046	0.031	
67-66-3	Chloroform	33	0.18	0.12	6.8	0.037	0.024	
107-06-2	1,2-Dichloroethane	ND	0.18	0.097	ND	0.045	0.024	
71-55-6	1,1,1-Trichloroethane	1.5	0.18	0.11	0.28	0.033	0.020	
71-43-2	Benzene	0.55	0.18	0.13	0.17	0.056	0.040	
56-23-5	Carbon Tetrachloride	0.12	0.18	0.12	0.019	0.029	0.019	J
110-82-7	Cyclohexane	1.0	1.7	0.25	0.30	0.50	0.071	J
78-87-5	1,2-Dichloropropane	ND	0.18	0.11	ND	0.039	0.023	
75-27-4	Bromodichloromethane	1.6	0.18	0.13	0.24	0.027	0.019	
79-01-6	Trichloroethene	140	0.18	0.12	25	0.034	0.022	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG3

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01454

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.41 Final Pressure (psig): 3.84

Container Dilution Factor: 1.64

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.89	0.14	ND	0.20	0.030	
108-10-1	4-Methyl-2-pentanone	0.27	1.8	0.12	0.065	0.44	0.029	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.84	0.18	ND	0.18	0.040	
79-00-5	1,1,2-Trichloroethane	ND	0.18	0.089	ND	0.033	0.016	
108-88-3	Toluene	2.5	0.87	0.11	0.65	0.23	0.028	
591-78-6	2-Hexanone	ND	1.8	0.11	ND	0.44	0.026	
124-48-1	Dibromochloromethane	ND	0.18	0.11	ND	0.021	0.013	
106-93-4	1,2-Dibromoethane	ND	0.18	0.10	ND	0.023	0.013	
127-18-4	Tetrachloroethene	5.2	0.18	0.11	0.76	0.027	0.017	
108-90-7	Chlorobenzene	ND	0.87	0.12	ND	0.19	0.025	
100-41-4	Ethylbenzene	0.37	0.87	0.12	0.085	0.20	0.028	J
179601-23-1	m,p-Xylenes	1.5	1.8	0.23	0.35	0.42	0.053	J
75-25-2	Bromoform	ND	0.89	0.18	ND	0.086	0.017	
100-42-5	Styrene	0.19	0.87	0.14	0.044	0.20	0.033	J
95-47-6	o-Xylene	0.64	0.87	0.13	0.15	0.20	0.029	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.18	0.12	ND	0.026	0.018	
98-82-8	Cumene	ND	0.89	0.13	ND	0.18	0.026	
541-73-1	1,3-Dichlorobenzene	ND	0.87	0.13	ND	0.14	0.022	
106-46-7	1,4-Dichlorobenzene	ND	0.87	0.13	ND	0.14	0.022	
95-50-1	1,2-Dichlorobenzene	ND	0.89	0.13	ND	0.15	0.022	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.8	0.16	ND	0.19	0.017	
120-82-1	1,2,4-Trichlorobenzene	0.23	1.8	0.21	0.031	0.24	0.029	J
79-20-9	Methyl Acetate	ND	0.82	0.39	ND	0.27	0.13	X
108-87-2	Methylcyclohexane	2.8	0.82	0.43	0.71	0.20	0.11	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS13\DATA\2023_03\24\03242306.D
 Acq On : 24 Mar 2023 8:29
 Sample : P2301250-004 (1000mL)
 Misc : S35-01202301

Vial: 11
 Operator: TZ
 Inst : MS13

Tz 3/27/23

Quant Time: Mar 27 11:22:30 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	251877	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	9.38	114	1099782	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	197841	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.09	65	415547	12.432	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	99.44%
57) Toluene-d8 (SS2)	12.48	98	1217101	11.962	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	95.68%
73) Bromofluorobenzene (SS3)	16.85	174	422864	11.347	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	90.80%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	3.46	85	22844	0.495	ng	98
4) Chloromethane	0.00	50	0	N.D.	d	
5) 1,2-Dichloro-1,1,2,2-t...	3.72	135	508	N.D.		
6) Vinyl Chloride	3.81	62	838	N.D.		
7) 1,3-Butadiene	3.88	54	184	N.D.		
8) Bromomethane	4.09	94	214	N.D.		
9) Chloroethane	4.27	64	120	N.D.		
10) Ethanol	4.43	45	532208	29.751	ng	100
11) Acetonitrile	4.56	41	3929	0.085	ng	91
12) Acrolein	4.65	56	1548	0.105	ng	98
13) Acetone	4.75	58	245117	16.055	ng	97
14) Trichlorofluoromethane	4.86	101	8770	0.211	ng	98
15) 2-Propanol (Isopropanol)	4.98	45	194435	3.155	ng	100
16) Acrylonitrile	0.00	53	0	N.D.	d	
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.45	84	28927	1.292	ng	93
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	5.68	151	1945	0.089	ng	97
22) Carbon Disulfide	5.71	76	17709	0.200	ng	98
23) trans-1,2-Dichloroethene	6.23	61	3164	0.097	ng	91
24) 1,1-Dichloroethane	6.41	63	38054	0.955	ng	99
25) Methyl tert-Butyl Ether	6.40	73	815	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	6.78	72	8544	0.630	ng	# 86
28) cis-1,2-Dichloroethene	7.16	61	75156	2.336	ng	96
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	7.38	61	139872	15.695	ng	93
31) n-Hexane	7.38	57	18888	0.551	ng	100
32) Chloroform	7.45	83	820791	20.227	ng	100
34) Tetrahydrofuran (THF)	7.87	72	2142	0.154	ng	# 27
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	N.D.		
38) 1,1,1-Trichloroethane	8.48	97	34218	0.940	ng	98
39) Isopropyl Acetate	9.38	61	31162	No Calib		
40) 1-Butanol	8.89	56	28968	No Calib	#	
41) Benzene	8.98	78	28537	0.334	ng	97
42) Carbon Tetrachloride	9.14	117	2387	0.074	ng	84
43) Cyclohexane	9.29	84	19437	0.620	ng	96
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	10.15	83	30750	0.972	ng	96
47) Trichloroethene	10.22	130	2090695	83.413	ng	100
48) 1,4-Dioxane	10.21	88	1495	0.087	ng	# 28
49) 2,2,4-Trimethylpentane...	10.30	57	2509	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS13\DATA\2023_03\24\03242306.D
 Acq On : 24 Mar 2023 8:29
 Sample : P2301250-004 (1000mL)
 Misc : S35-01202301

Vial: 11
 Operator: TZ
 Inst : MS13

Quant Time: Mar 27 11:22:30 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

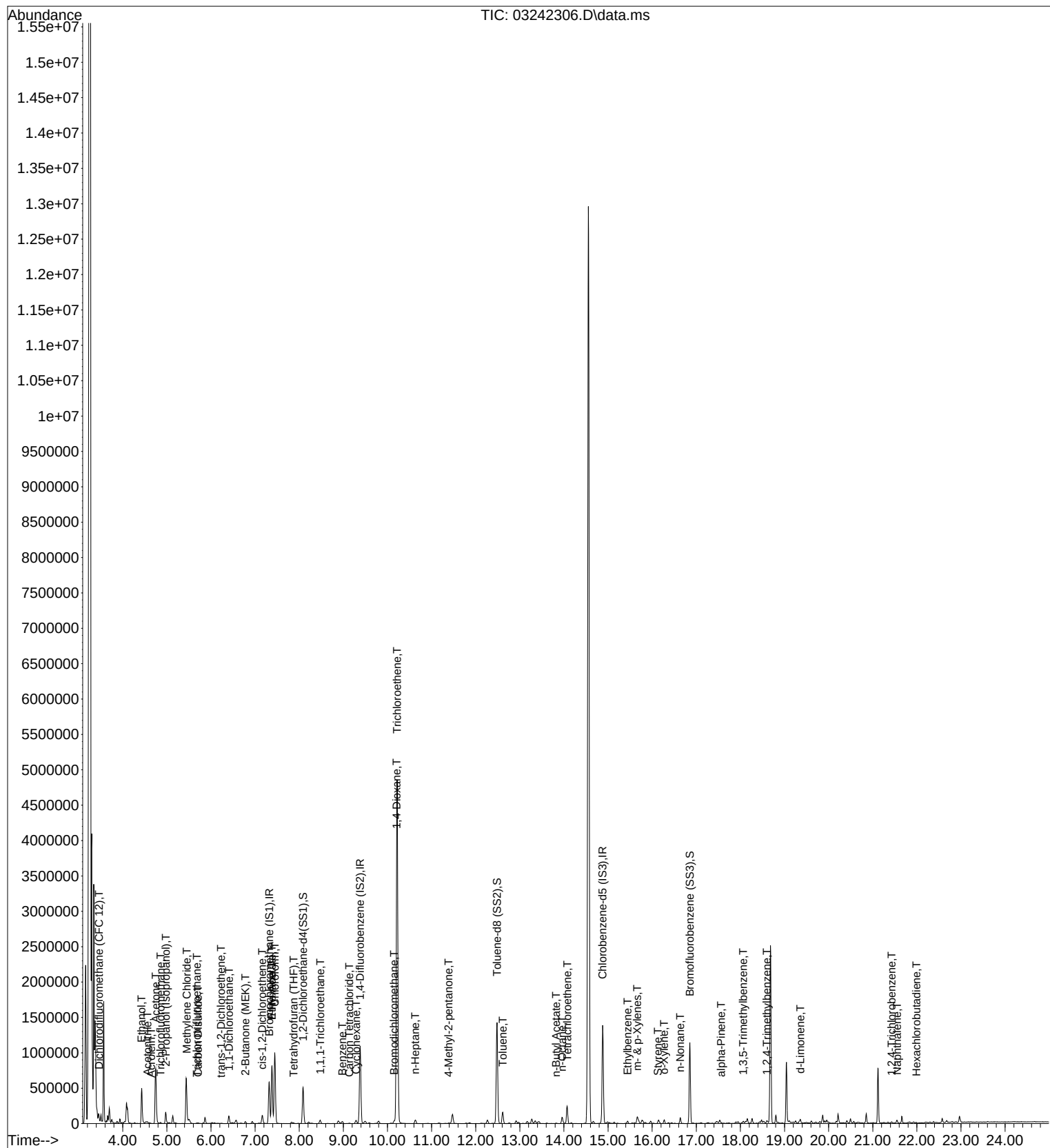
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.63	71	13632	0.658	ng	95
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.38	58	3015	0.163	ng #	88
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.61	91	145637	1.504	ng	100
59) 2-Hexanone	0.00	43	0	N.D.	d	
60) Dibromochloromethane	13.11	129	745	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.83	43	6419	0.120	ng	96
63) n-Octane	13.96	57	15945	0.837	ng	96
64) Tetrachloroethene	14.08	166	92706	3.146	ng	99
65) Chlorobenzene	14.94	112	2094	N.D.		
66) Ethylbenzene	15.44	91	26152	0.226	ng	99
67) m- & p-Xylenes	15.66	91	86050	0.925	ng	97
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.13	104	7246	0.113	ng	94
70) o-Xylene	16.27	91	34730	0.391	ng	99
71) n-Nonane	16.64	43	33763	0.785	ng	94
72) 1,1,2,2-Tetrachloroethane	16.24	83	518	N.D.		
74) Cumene	17.06	105	3386	N.D.		
75) alpha-Pinene	17.56	93	4768	0.096	ng	87
76) n-Propylbenzene	17.75	91	5267	N.D.		
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	5147	N.D.		
79) 1,3,5-Trimethylbenzene	18.07	105	6088	0.066	ng	99
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.60	105	15752	0.174	ng	89
83) n-Decane	17.14	58	635	No Calib	#	
84) Benzyl Chloride	18.75	91	1895	N.D.		
85) 1,3-Dichlorobenzene	18.77	146	1241	N.D.		
86) 1,4-Dichlorobenzene	18.86	146	1591	N.D.		
87) sec-Butylbenzene	18.96	105	1564	N.D.		
88) 4-Isopropyltoluene (p-...	19.18	119	3745	N.D.		
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.30	146	1769	N.D.		
91) d-Limonene	19.36	68	10419	0.341	ng	96
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.	d	
93) n-Undecane	18.27	58	2322	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	5738	0.141	ng	99
95) Naphthalene	21.55	128	21589	0.220	ng	100
96) n-Dodecane	19.20	58	284	No Calib	#	
97) Hexachlorobutadiene	21.99	225	2148	0.068	ng	89
98) Cyclohexanone	15.62	55	1104	No Calib	#	
99) tert-Butylbenzene	18.60	119	2984	N.D.		
100) n-Butylbenzene	0.00	91	0	N.D.	d	
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242306.D
Acq On : 24 Mar 2023 8:29
Sample : P2301250-004 (1000mL)
Misc : S35-01202301

Vial: 11
Operator: TZ
Inst : MS13

Quant Time: Mar 27 11:22:30 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242306.D
 Acq On : 24 Mar 2023 8:29
 Sample : P2301250-004 (1000mL)
 Misc : S35-01202301

Vial: 11
 Operator: TZ
 Inst : MS13

TZ 3/27/23

Quant Time: Mar 27 11:22:30 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	251877	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	9.38	114	1099782	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	197841	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.09	65	415547	12.432	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	99.44%
57) Toluene-d8 (SS2)	12.48	98	1217101	11.962	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	95.68%
73) Bromofluorobenzene (SS3)	16.85	174	422864	11.347	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	90.80%

Target Compounds

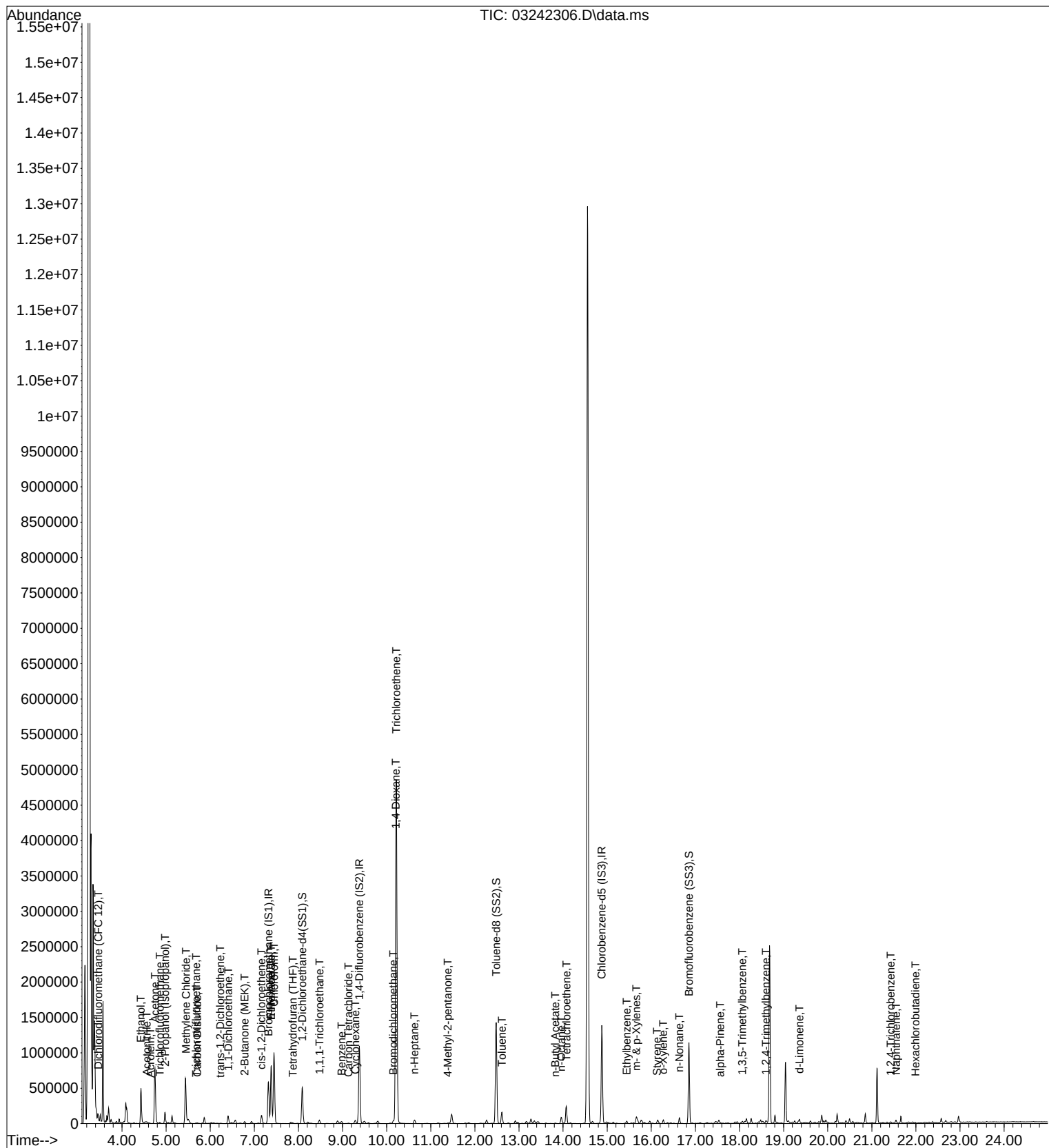
						Qvalue
3) Dichlorodifluoromethan...	3.46	85	22844	0.495	ng	98
10) Ethanol	4.43	45	532208	29.751	ng	100
11) Acetonitrile	4.56	41	3929	0.085	ng	91
12) Acrolein	4.65	56	1548	0.105	ng	98
13) Acetone	4.75	58	245117	16.055	ng	97
14) Trichlorofluoromethane	4.86	101	8770	0.211	ng	98
15) 2-Propanol (Isopropanol)	4.98	45	194435	3.155	ng	100
19) Methylene Chloride	5.45	84	28927	1.292	ng	93
21) Trichlorotrifluoroethane	5.68	151	1945	0.089	ng	97
22) Carbon Disulfide	5.71	76	17709	0.200	ng	98
23) trans-1,2-Dichloroethene	6.23	61	3164	0.097	ng	91
24) 1,1-Dichloroethane	6.41	63	38054	0.955	ng	99
27) 2-Butanone (MEK)	6.78	72	8544	0.630	ng	# 86
28) cis-1,2-Dichloroethene	7.16	61	75156	2.336	ng	96
30) Ethyl Acetate	7.38	61	139872	15.695	ng	93
31) n-Hexane	7.38	57	18888	0.551	ng	100
32) Chloroform	7.45	83	820791	20.227	ng	100
34) Tetrahydrofuran (THF)	7.87	72	2142	0.154	ng	# 27
38) 1,1,1-Trichloroethane	8.48	97	34218	0.940	ng	98
41) Benzene	8.98	78	28537	0.334	ng	97
42) Carbon Tetrachloride	9.14	117	2387	0.074	ng	84
43) Cyclohexane	9.29	84	19437	0.620	ng	96
46) Bromodichloromethane	10.15	83	30750	0.972	ng	96
47) Trichloroethene	10.22	130	2090695	83.413	ng	100
48) 1,4-Dioxane	10.21	88	1495	0.087	ng	# 28
51) n-Heptane	10.63	71	13632	0.658	ng	95
53) 4-Methyl-2-pentanone	11.38	58	3015	0.163	ng	# 88
58) Toluene	12.61	91	145637	1.504	ng	100
62) n-Butyl Acetate	13.83	43	6419	0.120	ng	96
63) n-Octane	13.96	57	15945	0.837	ng	96
64) Tetrachloroethene	14.08	166	92706	3.146	ng	99
66) Ethylbenzene	15.44	91	26152	0.226	ng	99
67) m- & p-Xylenes	15.66	91	86050	0.925	ng	97
69) Styrene	16.13	104	7246	0.113	ng	94
70) o-Xylene	16.27	91	34730	0.391	ng	99
71) n-Nonane	16.64	43	33763	0.785	ng	94
75) alpha-Pinene	17.56	93	4768	0.096	ng	87
79) 1,3,5-Trimethylbenzene	18.07	105	6088	0.066	ng	99
82) 1,2,4-Trimethylbenzene	18.60	105	15752	0.174	ng	89
91) d-Limonene	19.36	68	10419	0.341	ng	96
94) 1,2,4-Trichlorobenzene	21.43	180	5738	0.141	ng	99
95) Naphthalene	21.55	128	21589	0.220	ng	100
97) Hexachlorobutadiene	21.99	225	2148	0.068	ng	89

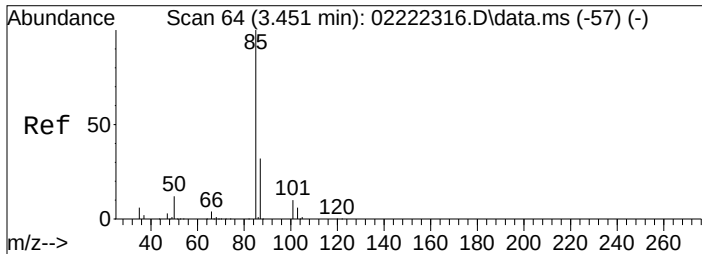
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS13\DATA\2023_03\24\03242306.D
Acq On : 24 Mar 2023 8:29
Sample : P2301250-004 (1000mL)
Misc : S35-01202301

Vial: 11
Operator: TZ
Inst : MS13

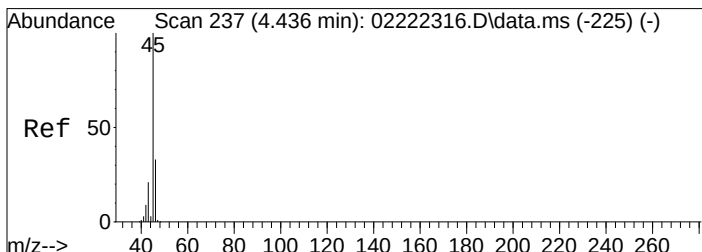
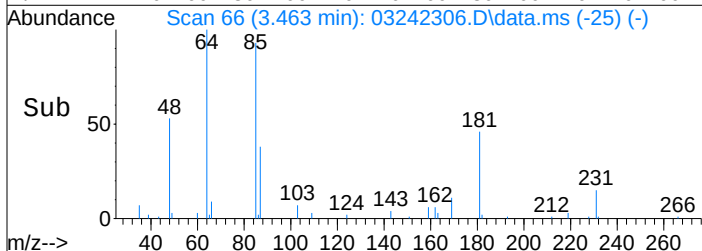
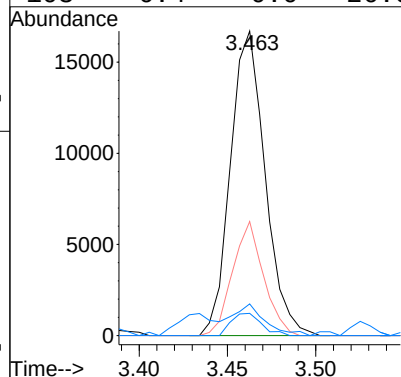
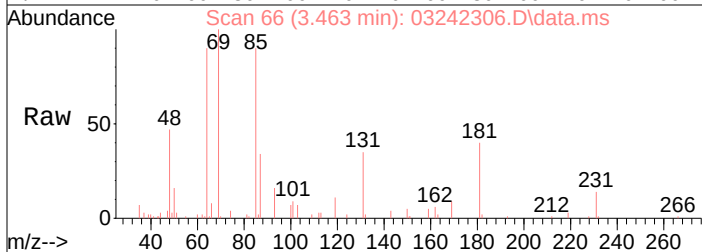
Quant Time: Mar 27 11:22:30 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M





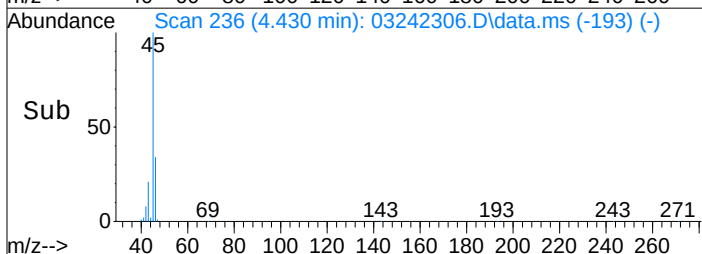
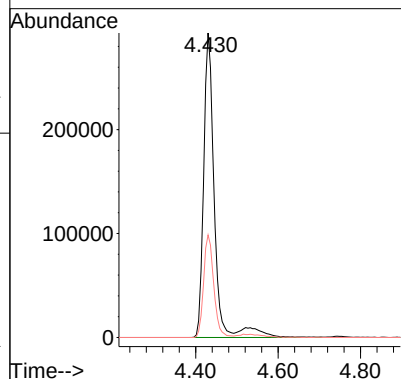
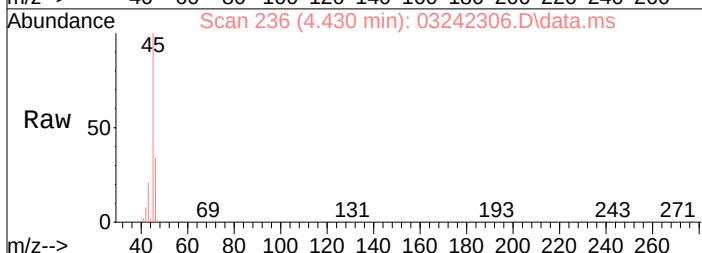
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 0.50 ng
 RT: 3.46 min Scan# 66
 Delta R.T. -0.015 min
 Lab File: 03242306.D
 Acq: 24 Mar 2023 8:29

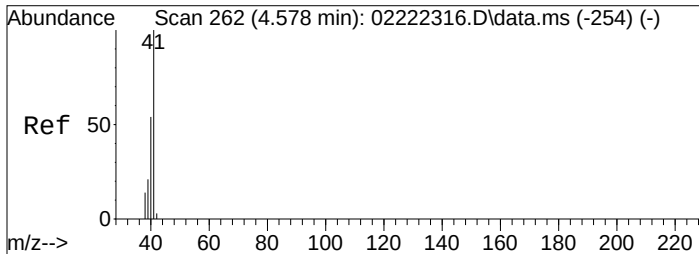
Tgt Ion:	85	Resp:	22844
Ion Ratio		Lower	Upper
85	100		
87	33.5	12.4	52.4
101	9.7	0.0	29.4
103	6.4	0.0	26.0



#10
 Ethanol
 Concen: 29.75 ng
 RT: 4.43 min Scan# 236
 Delta R.T. -0.006 min
 Lab File: 03242306.D
 Acq: 24 Mar 2023 8:29

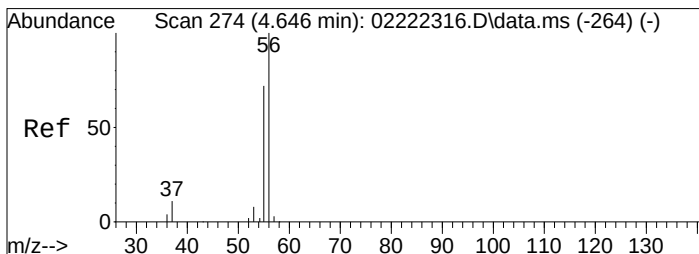
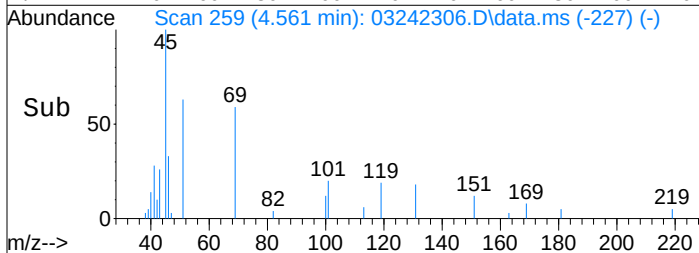
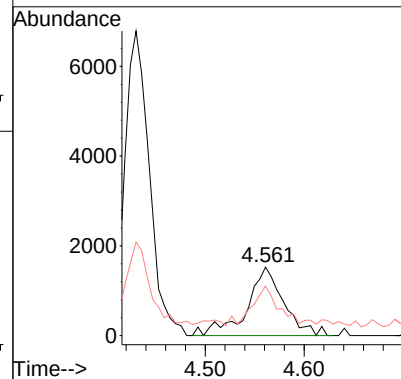
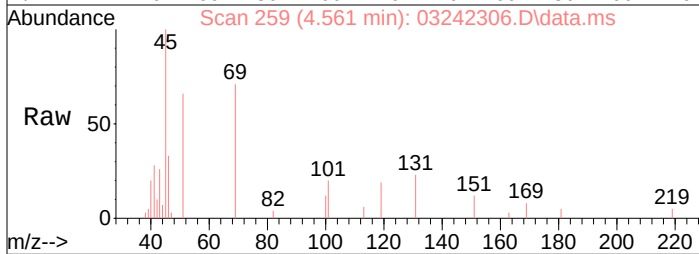
Tgt Ion:	45	Resp:	532208
Ion Ratio		Lower	Upper
45	100		
46	34.1	13.8	53.8





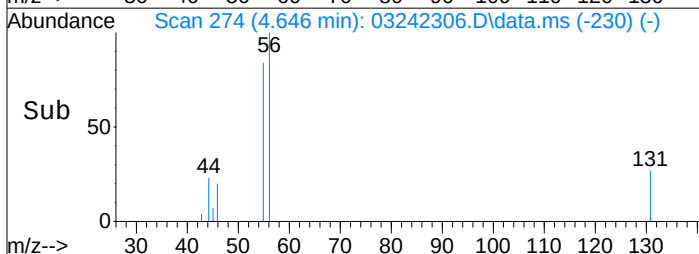
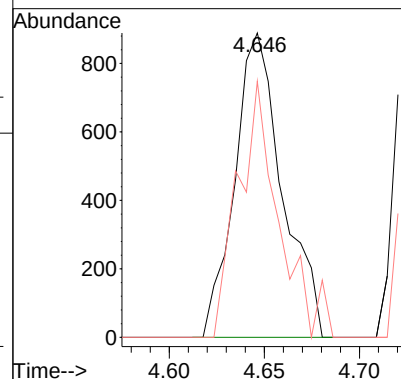
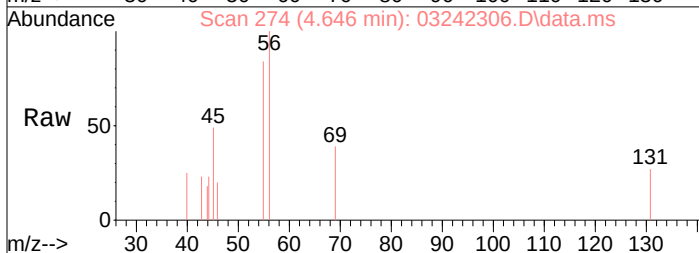
#11
Acetonitrile
Concen: 0.08 ng
RT: 4.56 min Scan# 259
Delta R.T. -0.017 min
Lab File: 03242306.D
Acq: 24 Mar 2023 8:29

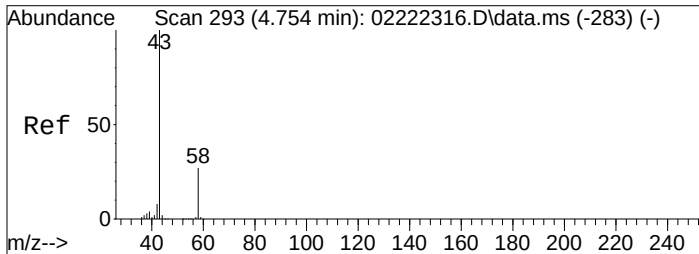
Tgt Ion: 41 Resp: 3929
Ion Ratio Lower Upper
41 100
40 60.7 34.4 74.4



#12
Acrolein
Concen: 0.10 ng
RT: 4.65 min Scan# 274
Delta R.T. 0.000 min
Lab File: 03242306.D
Acq: 24 Mar 2023 8:29

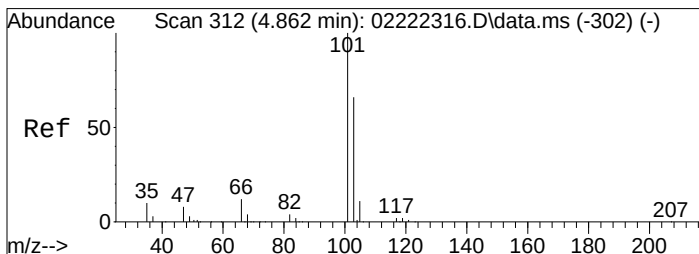
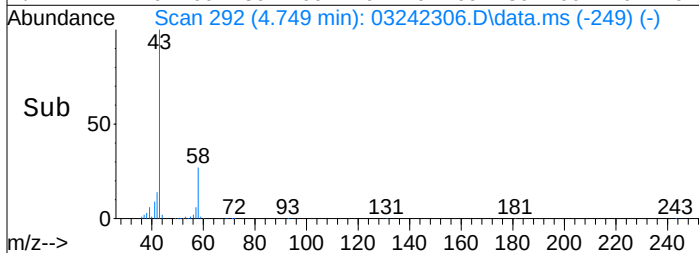
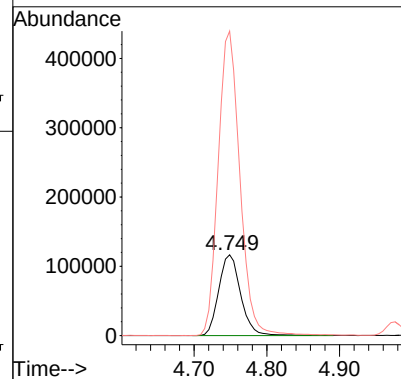
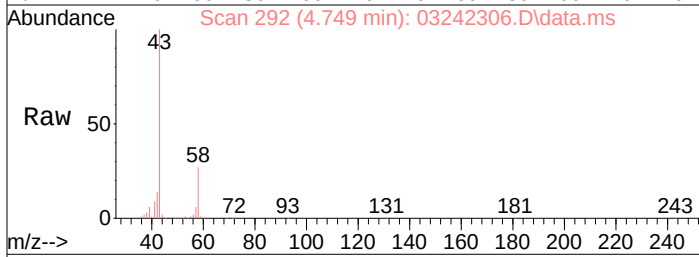
Tgt Ion: 56 Resp: 1548
Ion Ratio Lower Upper
56 100
55 72.3 50.9 90.9





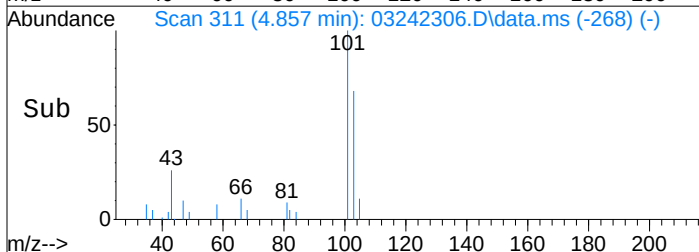
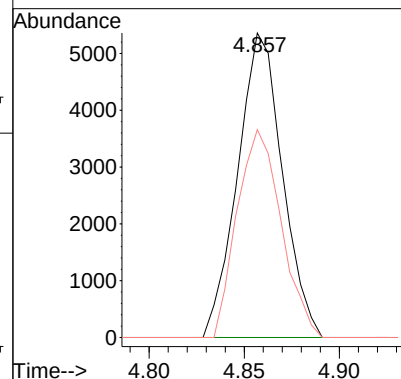
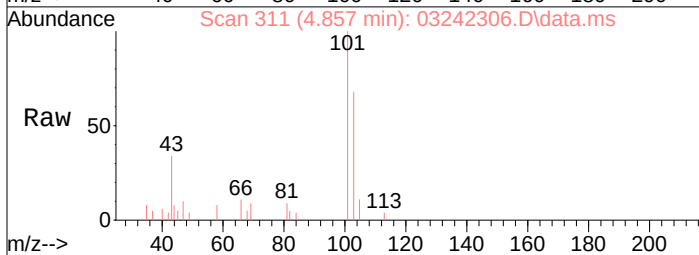
#13
Acetone
Concen: 16.06 ng
RT: 4.75 min Scan# 292
Delta R.T. -0.006 min
Lab File: 03242306.D
Acq: 24 Mar 2023 8:29

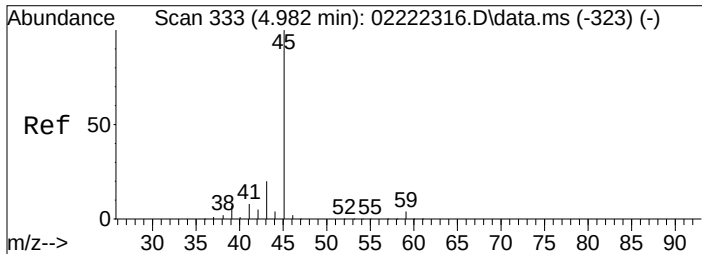
Tgt Ion: 58 Resp: 245117
Ion Ratio Lower Upper
58 100
43 373.8 337.8 397.8



#14
Trichlorofluoromethane
Concen: 0.21 ng
RT: 4.86 min Scan# 311
Delta R.T. -0.006 min
Lab File: 03242306.D
Acq: 24 Mar 2023 8:29

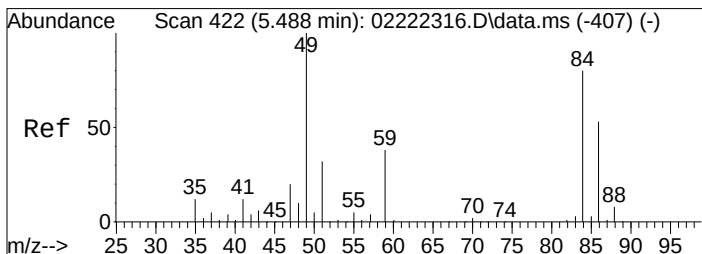
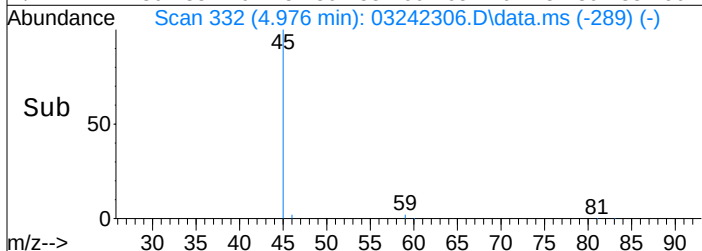
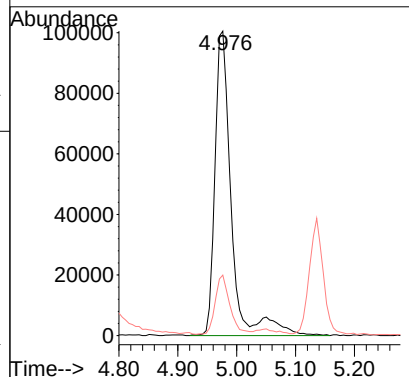
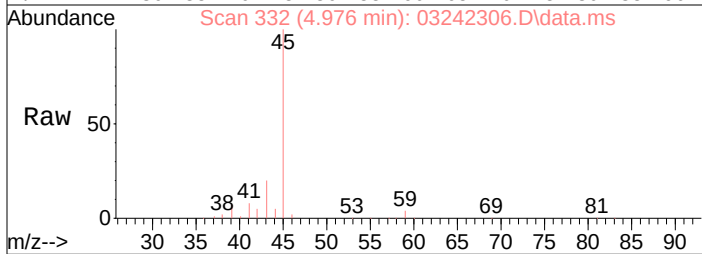
Tgt Ion: 101 Resp: 8770
Ion Ratio Lower Upper
101 100
103 67.2 45.2 85.2





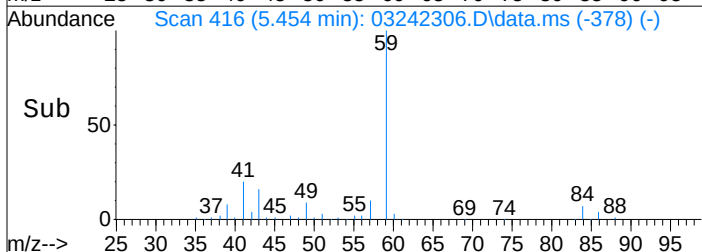
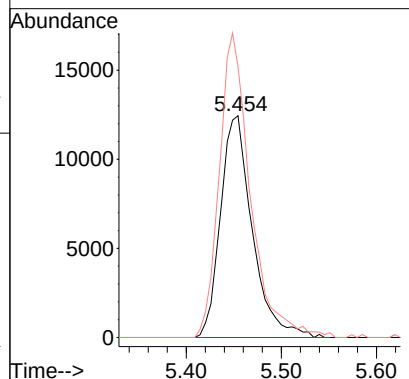
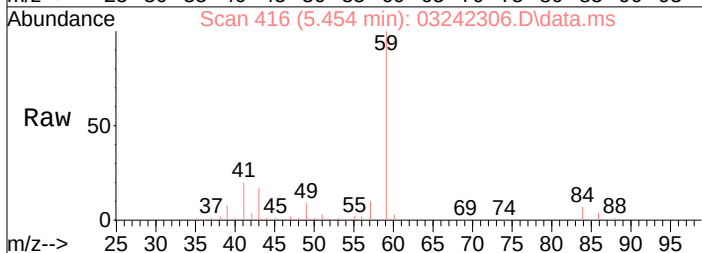
#15
 2-Propanol (Isopropanol)
 Concen: 3.15 ng
 RT: 4.98 min Scan# 332
 Delta R.T. -0.006 min
 Lab File: 03242306.D
 Acq: 24 Mar 2023 8:29

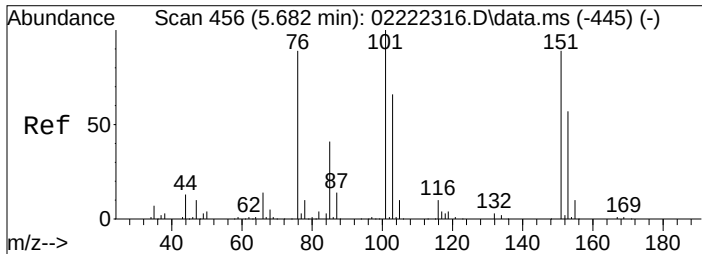
Tgt Ion: 45 Resp: 194435
 Ion Ratio Lower Upper
 45 100
 43 19.7 0.0 39.7



#19
 Methylene Chloride
 Concen: 1.29 ng
 RT: 5.45 min Scan# 416
 Delta R.T. -0.034 min
 Lab File: 03242306.D
 Acq: 24 Mar 2023 8:29

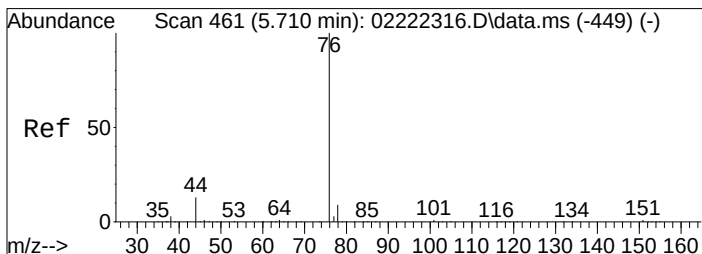
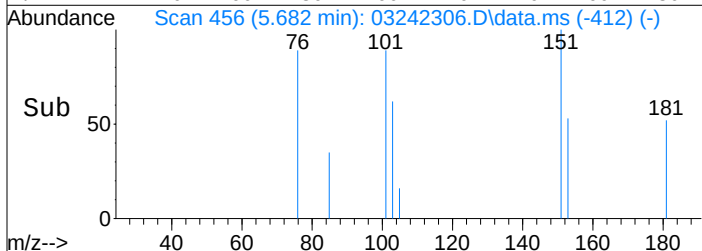
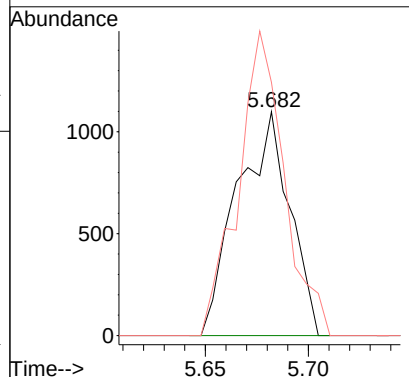
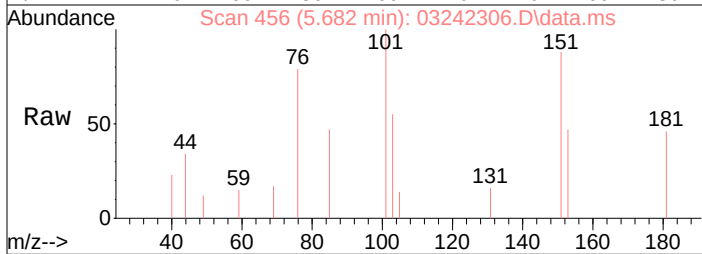
Tgt Ion: 84 Resp: 28927
 Ion Ratio Lower Upper
 84 100
 49 134.4 101.3 151.3





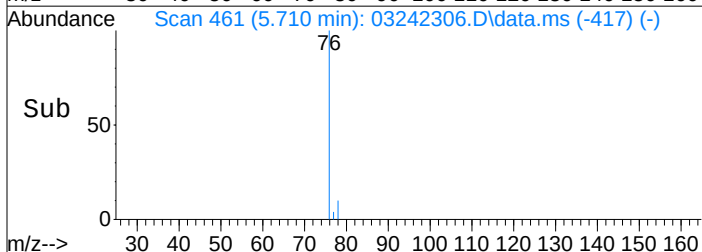
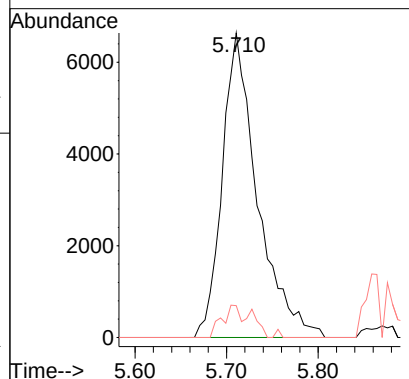
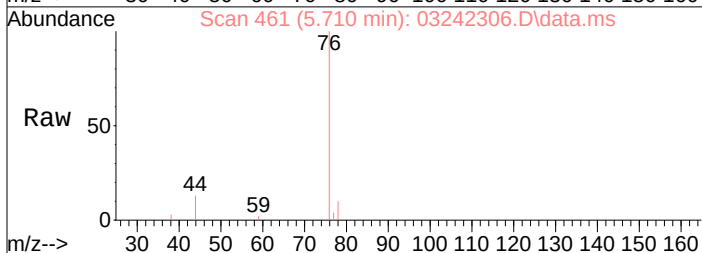
#21
 Trichlorotrifluoroethane
 Concen: 0.09 ng
 RT: 5.68 min Scan# 456
 Delta R.T. 0.000 min
 Lab File: 03242306.D
 Acq: 24 Mar 2023 8:29

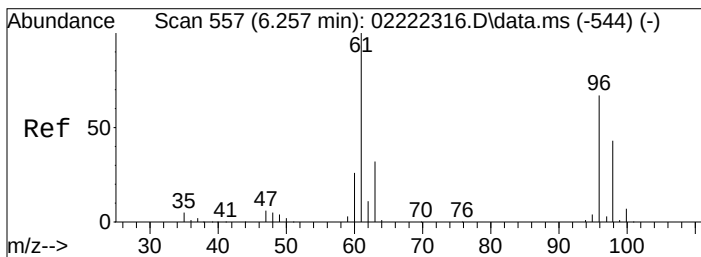
Tgt Ion: 151 Resp: 1945
 Ion Ratio Lower Upper
 151 100
 101 119.4 96.3 136.3



#22
 Carbon Disulfide
 Concen: 0.20 ng
 RT: 5.71 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: 03242306.D
 Acq: 24 Mar 2023 8:29

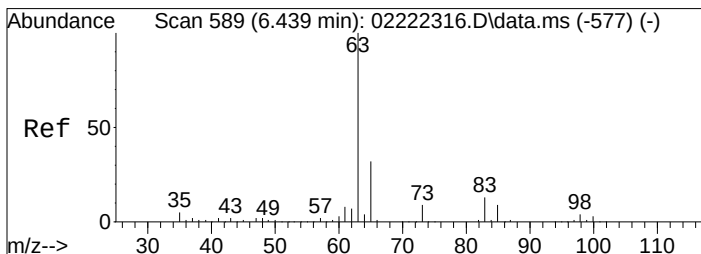
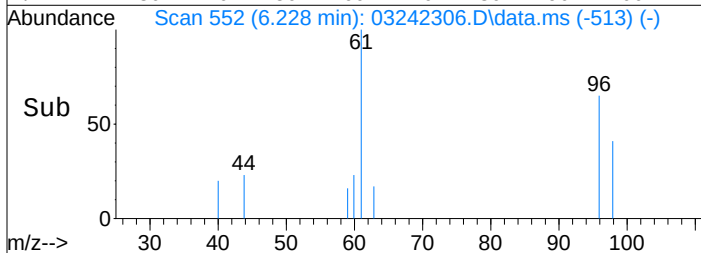
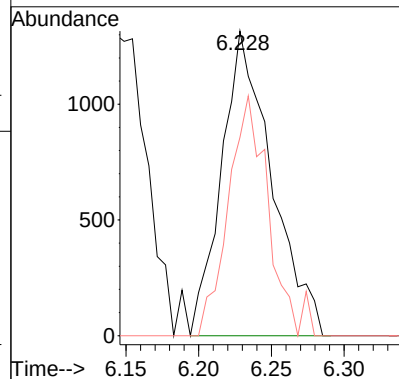
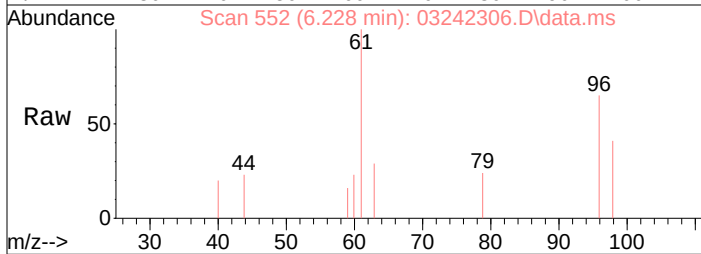
Tgt Ion: 76 Resp: 17709
 Ion Ratio Lower Upper
 76 100
 78 8.6 0.0 29.3





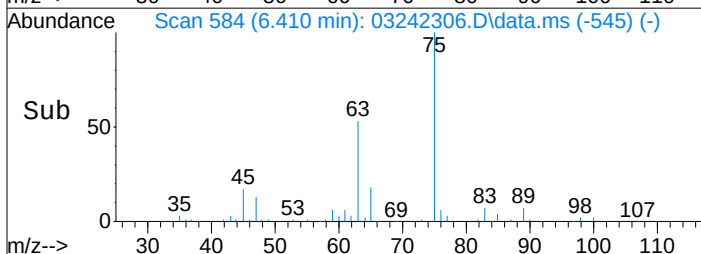
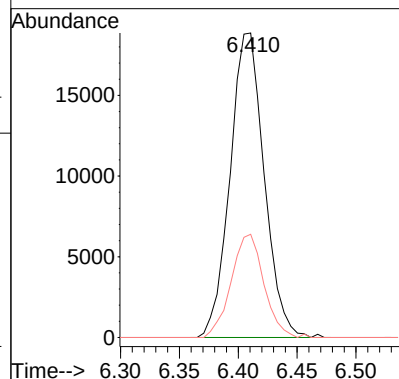
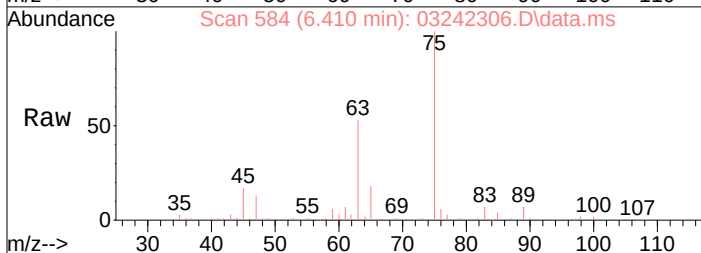
#23
trans-1,2-Dichloroethene
Concen: 0.10 ng
RT: 6.23 min Scan# 552
Delta R.T. -0.028 min
Lab File: 03242306.D
Acq: 24 Mar 2023 8:29

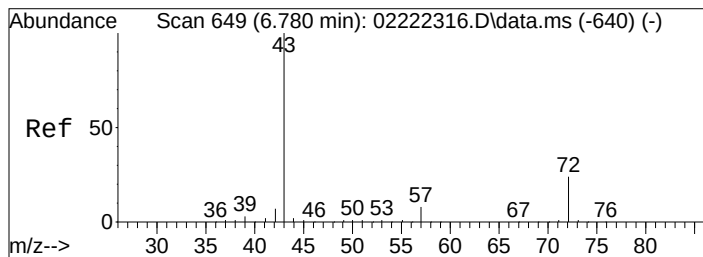
Tgt Ion: 61 Resp: 3164
Ion Ratio Lower Upper
61 100
96 60.8 47.7 87.7



#24
1,1-Dichloroethane
Concen: 0.96 ng
RT: 6.41 min Scan# 584
Delta R.T. -0.028 min
Lab File: 03242306.D
Acq: 24 Mar 2023 8:29

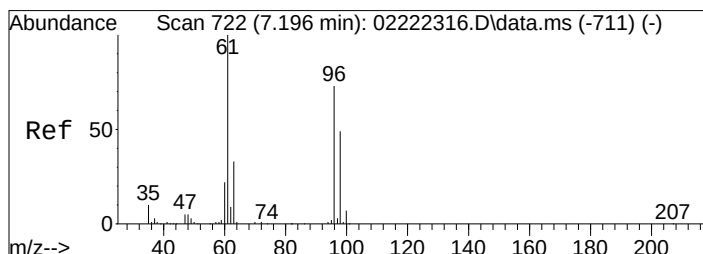
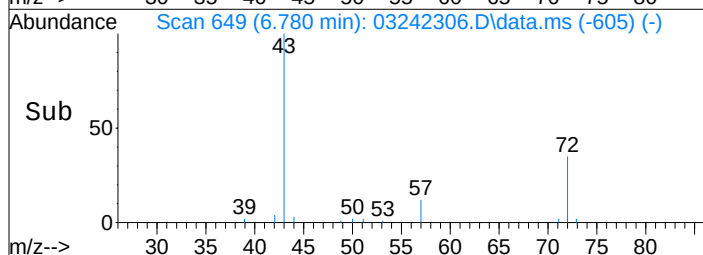
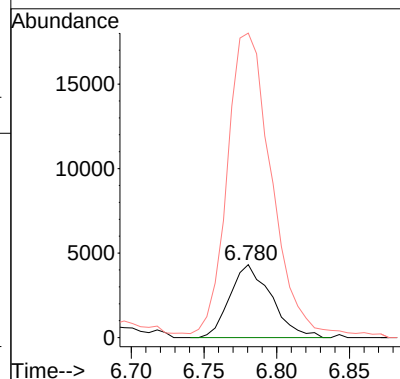
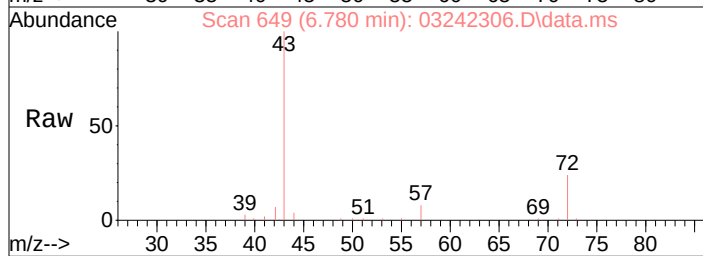
Tgt Ion: 63 Resp: 38054
Ion Ratio Lower Upper
63 100
65 32.5 12.0 52.0





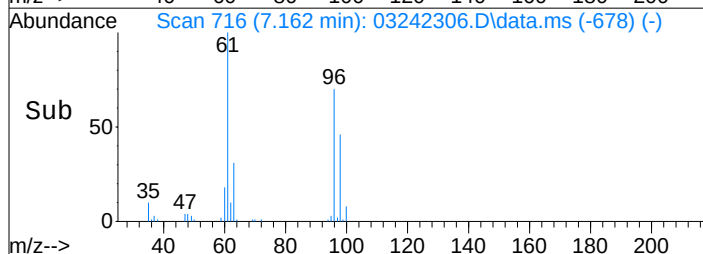
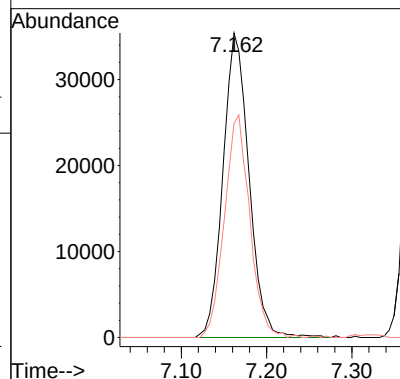
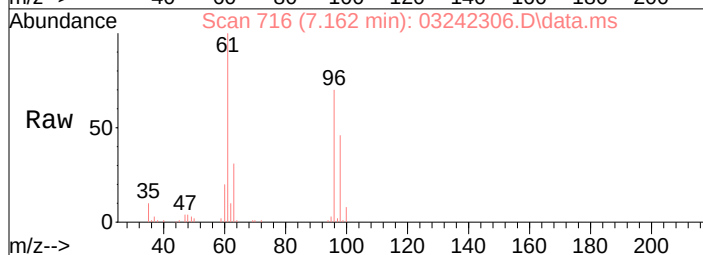
#27
2-Butanone (MEK)
Concen: 0.63 ng
RT: 6.78 min Scan# 649
Delta R.T. 0.000 min
Lab File: 03242306.D
Acq: 24 Mar 2023 8:29

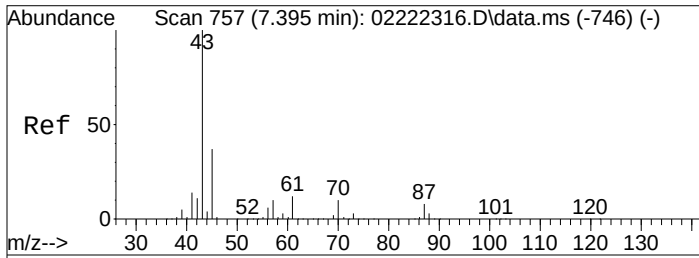
Tgt Ion: 72 Resp: 8544
Ion Ratio Lower Upper
72 100
43 454.3 400.5 440.5#



#28
cis-1,2-Dichloroethene
Concen: 2.34 ng
RT: 7.16 min Scan# 716
Delta R.T. -0.034 min
Lab File: 03242306.D
Acq: 24 Mar 2023 8:29

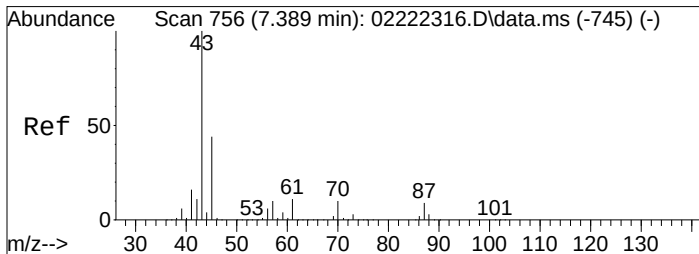
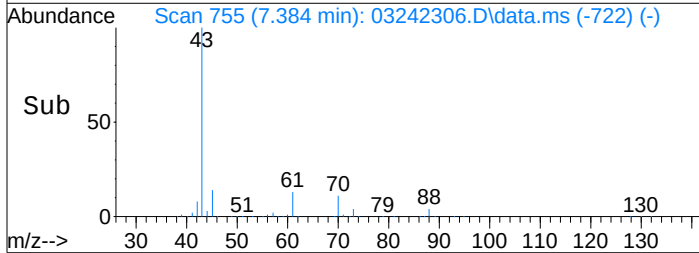
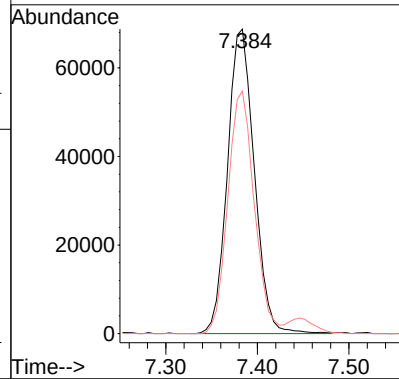
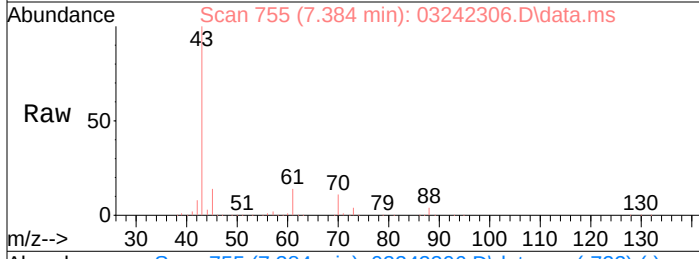
Tgt Ion: 61 Resp: 75156
Ion Ratio Lower Upper
61 100
96 71.3 54.5 94.5





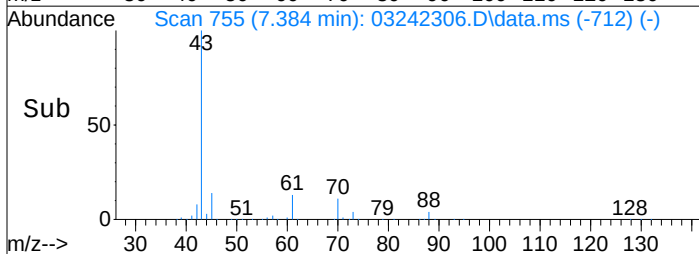
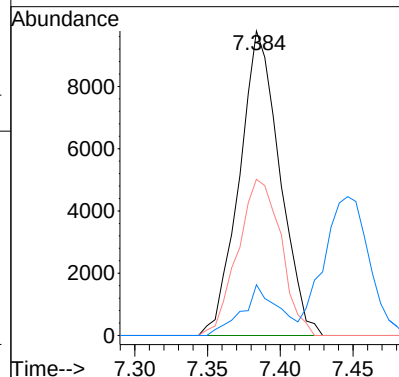
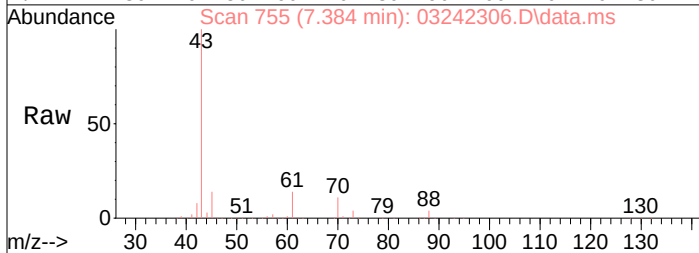
#30
Ethyl Acetate
Concen: 15.69 ng
RT: 7.38 min Scan# 755
Delta R.T. -0.011 min
Lab File: 03242306.D
Acq: 24 Mar 2023 8:29

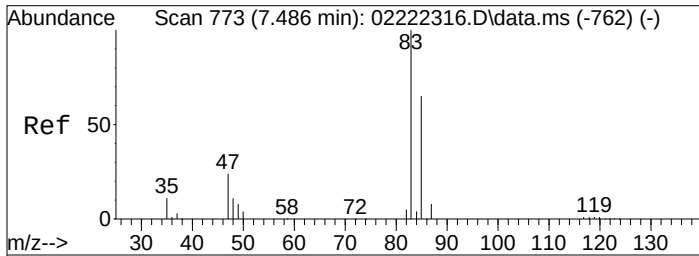
Tgt Ion: 61 Resp: 139872
Ion Ratio Lower Upper
61 100
70 78.9 65.6 105.6



#31
n-Hexane
Concen: 0.55 ng
RT: 7.38 min Scan# 755
Delta R.T. -0.006 min
Lab File: 03242306.D
Acq: 24 Mar 2023 8:29

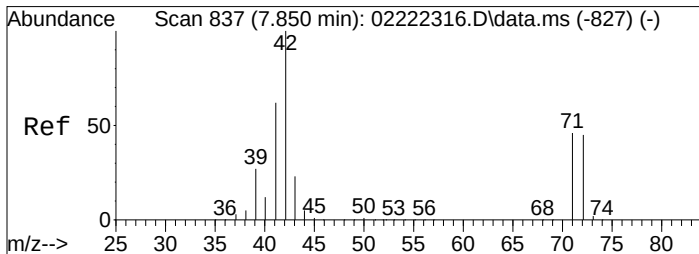
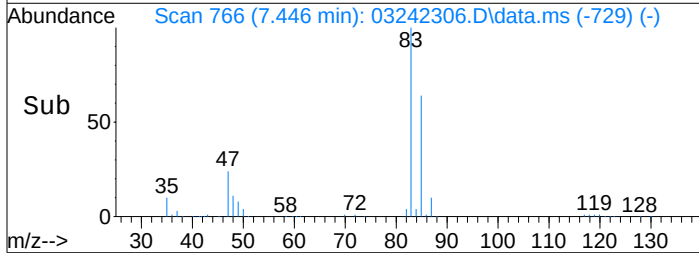
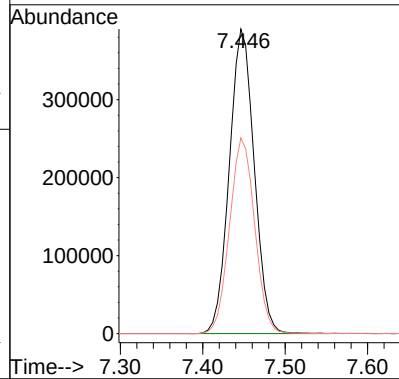
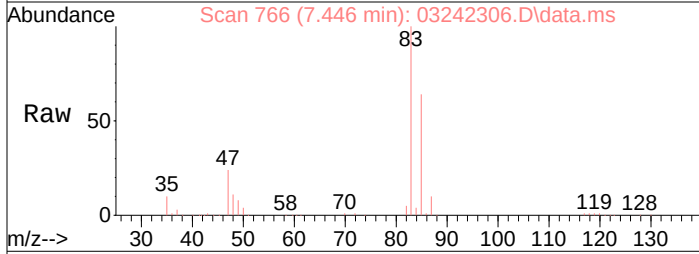
Tgt Ion: 57 Resp: 18888
Ion Ratio Lower Upper
57 100
56 54.9 44.0 66.0
86 15.1 11.5 17.3





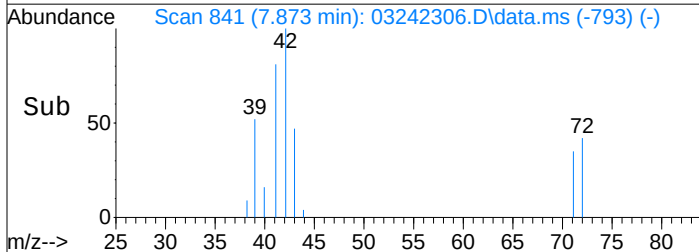
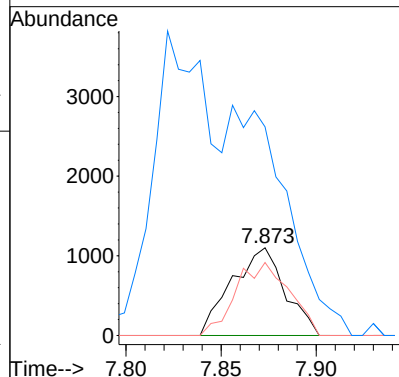
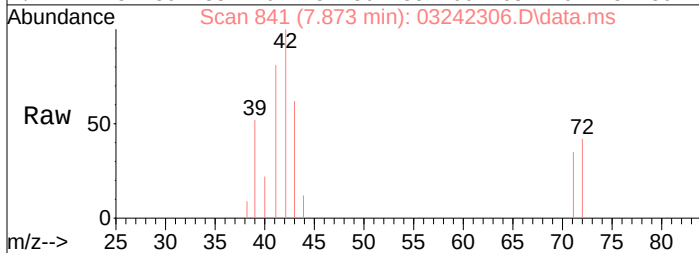
#32
Chloroform
Concen: 20.23 ng
RT: 7.45 min Scan# 766
Delta R.T. -0.040 min
Lab File: 03242306.D
Acq: 24 Mar 2023 8:29

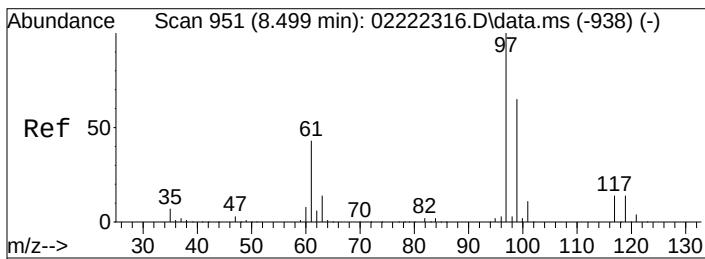
Tgt Ion: 83 Resp: 820791
Ion Ratio Lower Upper
83 100
85 64.8 45.0 85.0



#34
Tetrahydrofuran (THF)
Concen: 0.15 ng
RT: 7.87 min Scan# 841
Delta R.T. 0.023 min
Lab File: 03242306.D
Acq: 24 Mar 2023 8:29

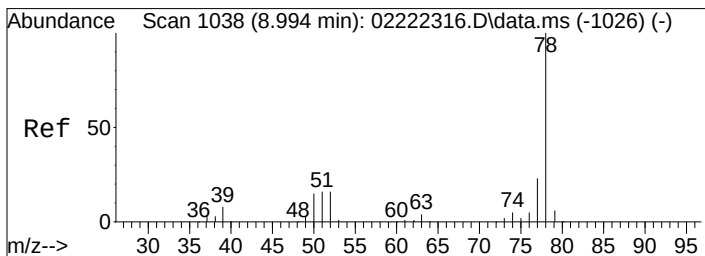
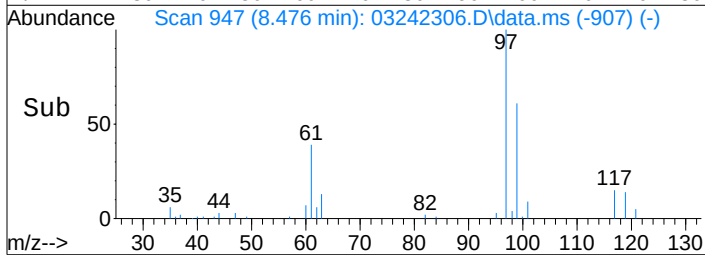
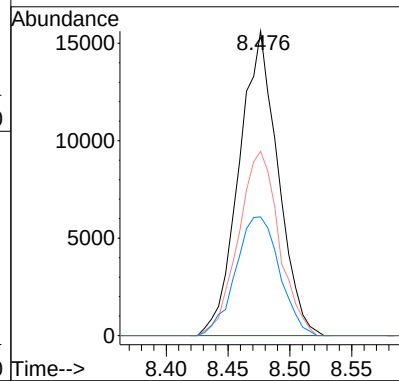
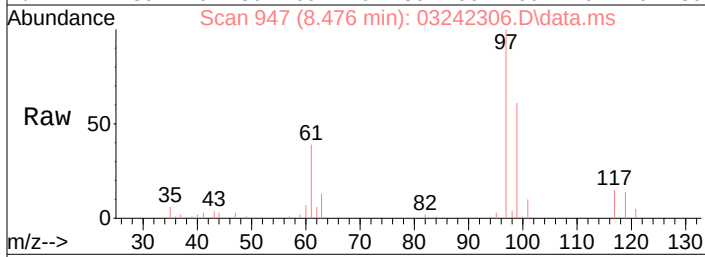
Tgt Ion: 72 Resp: 2142
Ion Ratio Lower Upper
72 100
71 84.1 79.8 119.8
42 378.2 199.0 239.0#





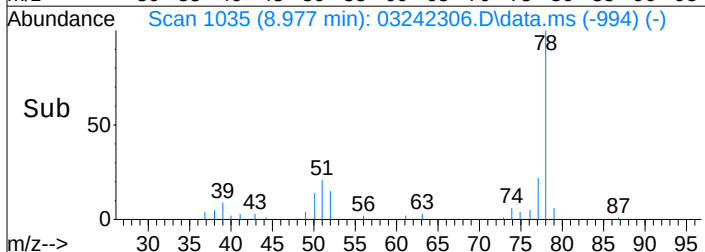
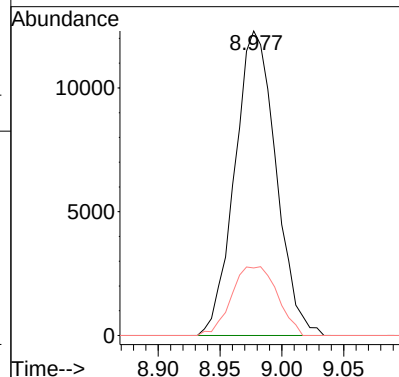
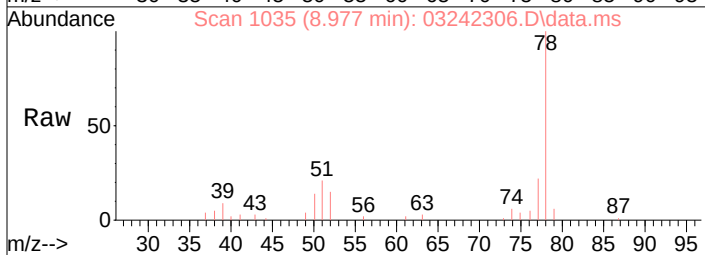
#38
 1,1,1-Trichloroethane
 Concen: 0.94 ng
 RT: 8.48 min Scan# 947
 Delta R.T. -0.023 min
 Lab File: 03242306.D
 Acq: 24 Mar 2023 8:29

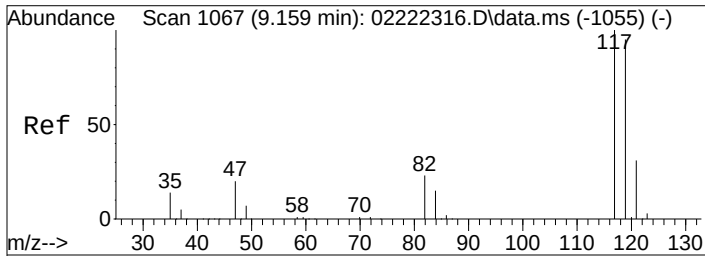
Tgt Ion: 97 Resp: 34218
 Ion Ratio Lower Upper
 97 100
 99 63.2 44.9 84.9
 61 43.9 23.5 63.5



#41
 Benzene
 Concen: 0.33 ng
 RT: 8.98 min Scan# 1035
 Delta R.T. -0.017 min
 Lab File: 03242306.D
 Acq: 24 Mar 2023 8:29

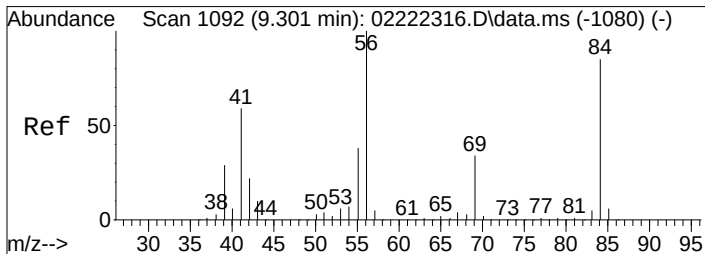
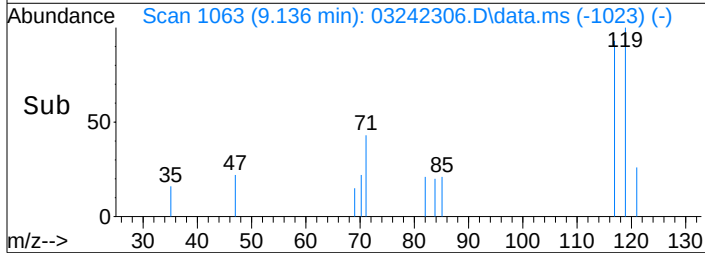
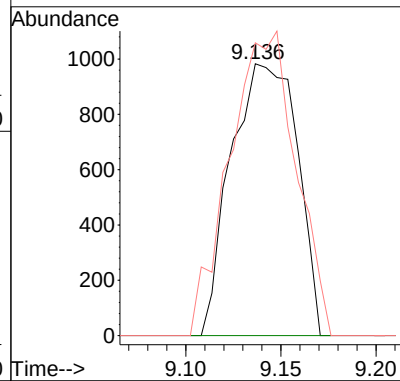
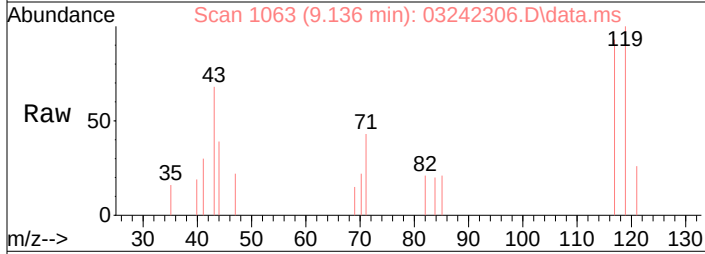
Tgt Ion: 78 Resp: 28537
 Ion Ratio Lower Upper
 78 100
 77 25.1 3.7 43.7





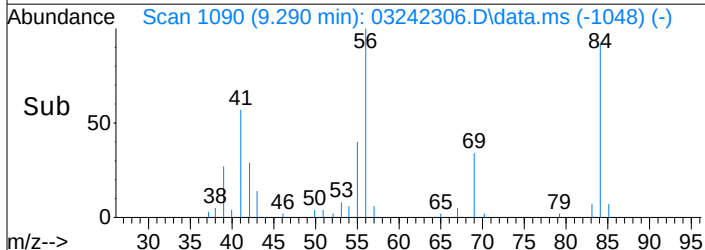
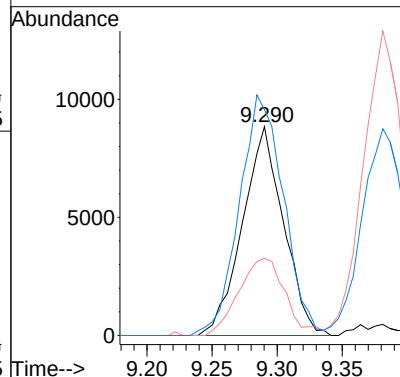
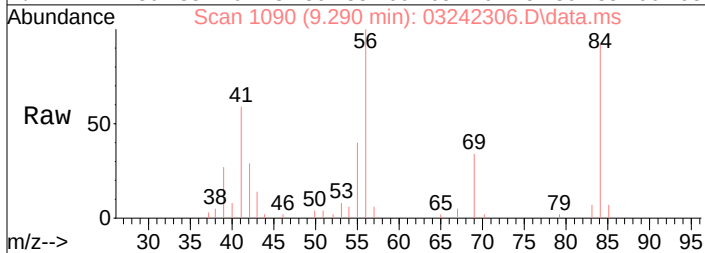
#42
Carbon Tetrachloride
Concen: 0.07 ng
RT: 9.14 min Scan# 1063
Delta R.T. -0.023 min
Lab File: 03242306.D
Acq: 24 Mar 2023 8:29

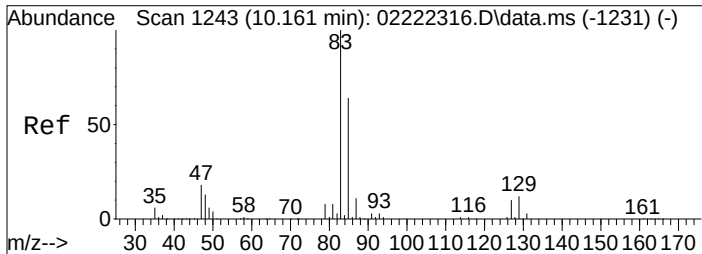
Tgt Ion: 117 Resp: 2387
Ion Ratio Lower Upper
117 100
119 111.4 75.7 115.7



#43
Cyclohexane
Concen: 0.62 ng
RT: 9.29 min Scan# 1090
Delta R.T. -0.011 min
Lab File: 03242306.D
Acq: 24 Mar 2023 8:29

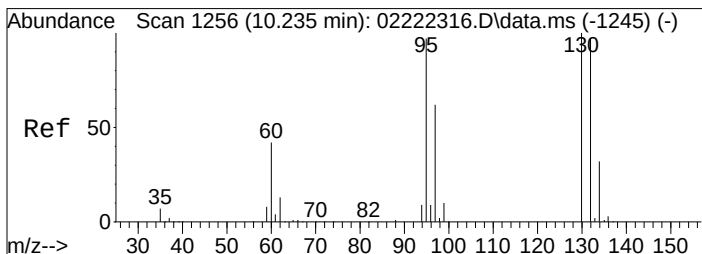
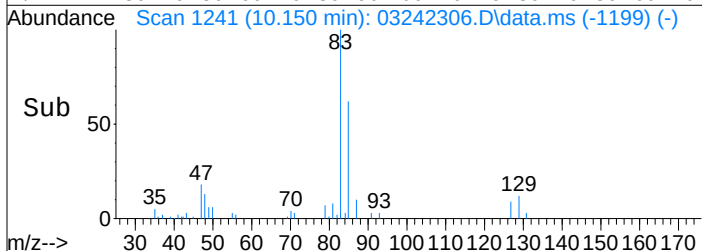
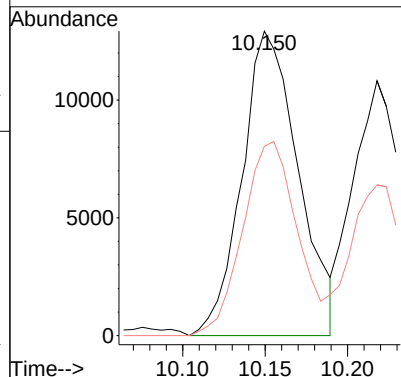
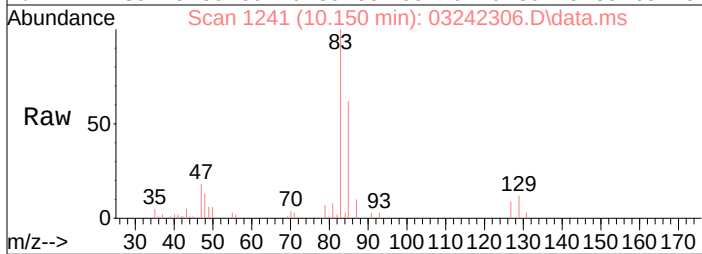
Tgt Ion: 84 Resp: 19437
Ion Ratio Lower Upper
84 100
69 41.8 20.0 60.0
56 123.6 98.5 138.5





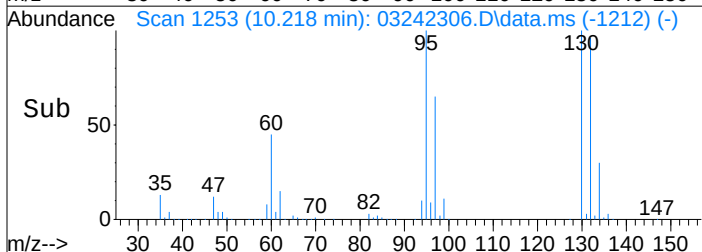
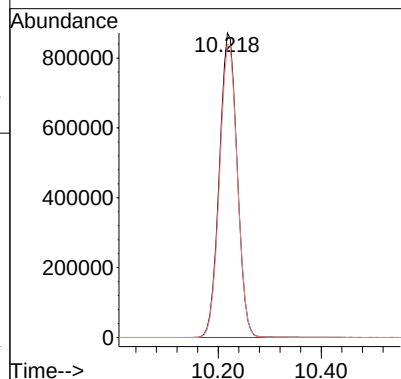
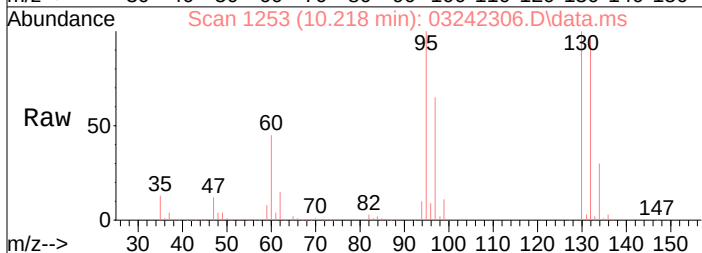
#46
 Bromodichloromethane
 Concen: 0.97 ng
 RT: 10.15 min Scan# 1241
 Delta R.T. -0.011 min
 Lab File: 03242306.D
 Acq: 24 Mar 2023 8:29

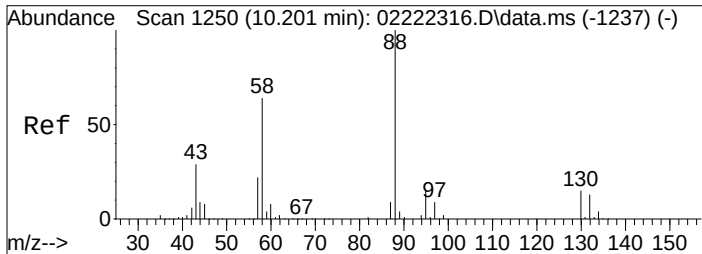
Tgt Ion:	83	Resp:	30750
Ion Ratio	Lower	Upper	
83	100		
85	61.0	44.0	84.0



#47
 Trichloroethene
 Concen: 83.41 ng
 RT: 10.22 min Scan# 1253
 Delta R.T. -0.017 min
 Lab File: 03242306.D
 Acq: 24 Mar 2023 8:29

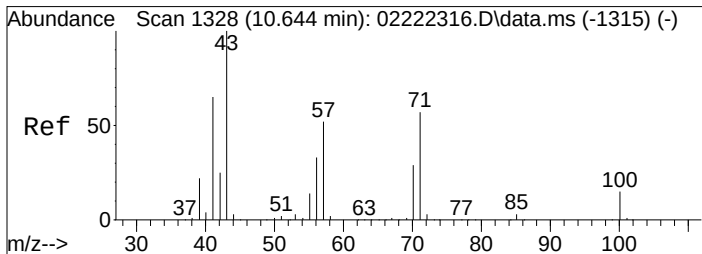
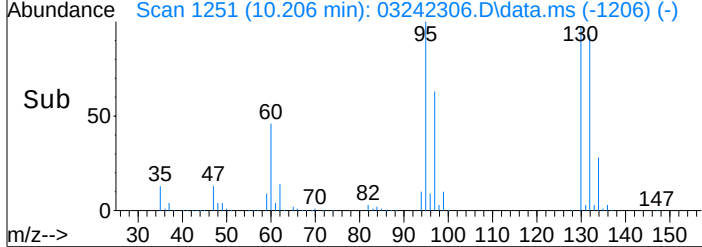
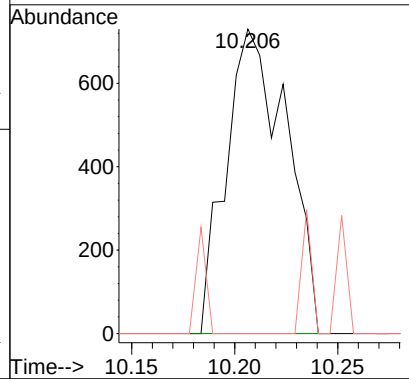
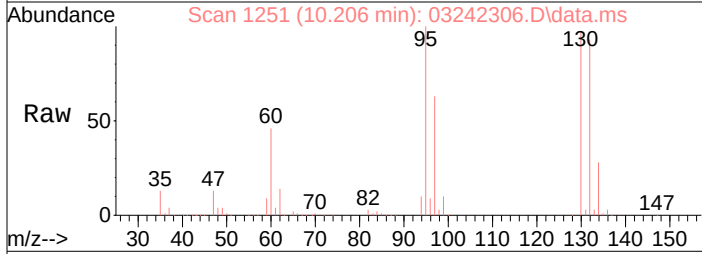
Tgt Ion:	130	Resp:	2090695
Ion Ratio	Lower	Upper	
130	100		
132	96.6	76.3	116.3





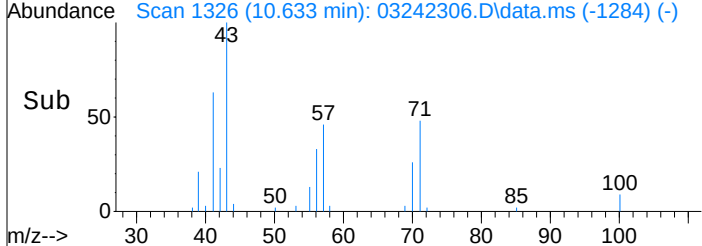
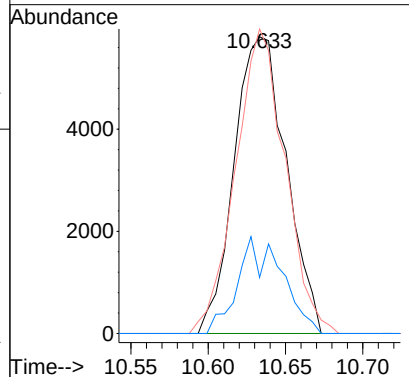
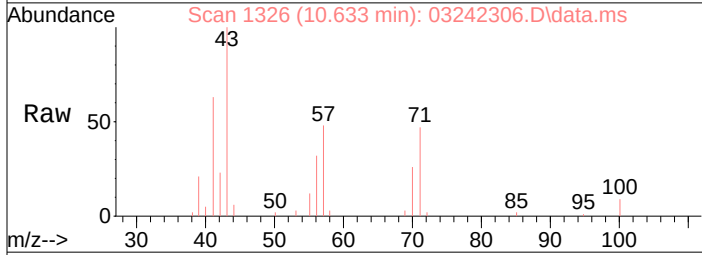
#48
 1,4-Dioxane
 Concen: 0.09 ng
 RT: 10.21 min Scan# 1251
 Delta R.T. 0.006 min
 Lab File: 03242306.D
 Acq: 24 Mar 2023 8:29

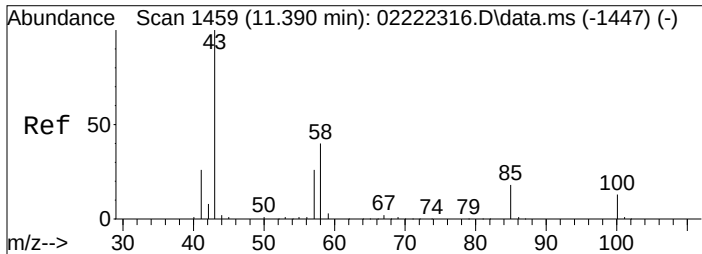
Tgt Ion	Ratio	Resp	Lower	Upper
88	100	1495		
58	6.8	42.5		82.5#



#51
 n-Heptane
 Concen: 0.66 ng
 RT: 10.63 min Scan# 1326
 Delta R.T. -0.011 min
 Lab File: 03242306.D
 Acq: 24 Mar 2023 8:29

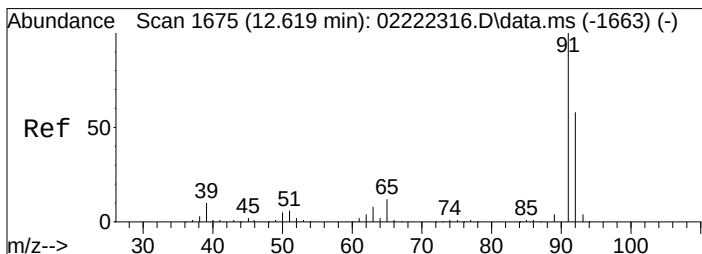
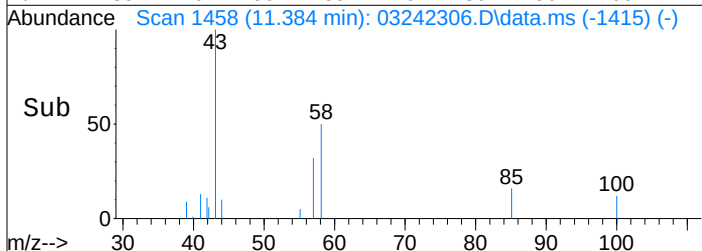
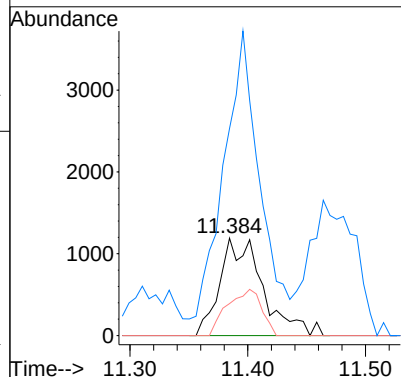
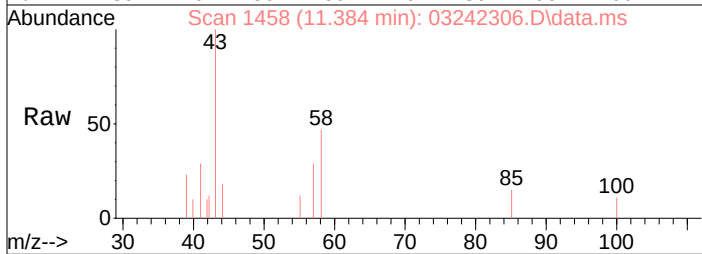
Tgt Ion	Ratio	Resp	Lower	Upper
71	100	13632		
57	97.3	71.7		111.7
100	27.8	5.8		45.8





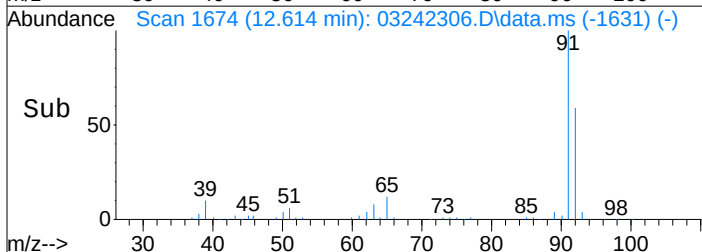
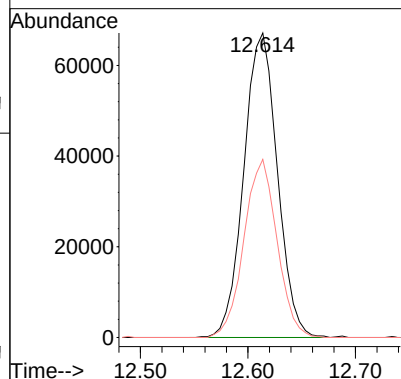
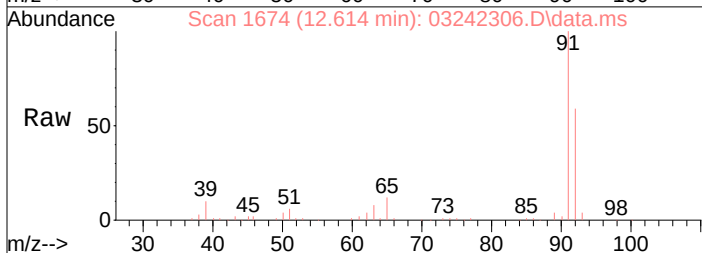
#53
 4-Methyl-2-pentanone
 Concen: 0.16 ng
 RT: 11.38 min Scan# 1458
 Delta R.T. -0.006 min
 Lab File: 03242306.D
 Acq: 24 Mar 2023 8:29

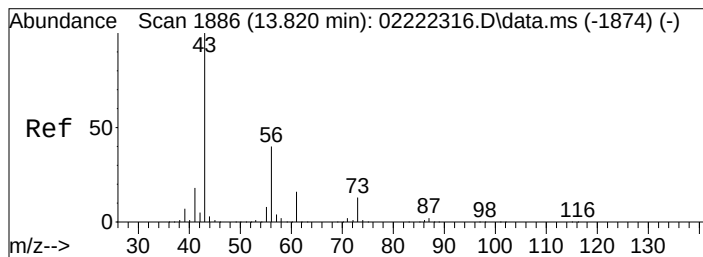
Tgt Ion:	58	Resp:	3015
Ion Ratio	Lower	Upper	
58	100		
85	37.8	38.6	58.0#
43	271.9	202.2	303.2



#58
 Toluene
 Concen: 1.50 ng
 RT: 12.61 min Scan# 1674
 Delta R.T. -0.006 min
 Lab File: 03242306.D
 Acq: 24 Mar 2023 8:29

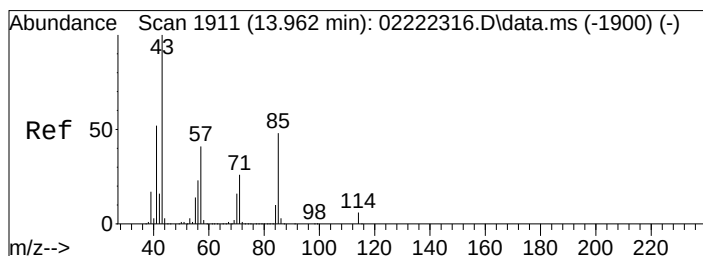
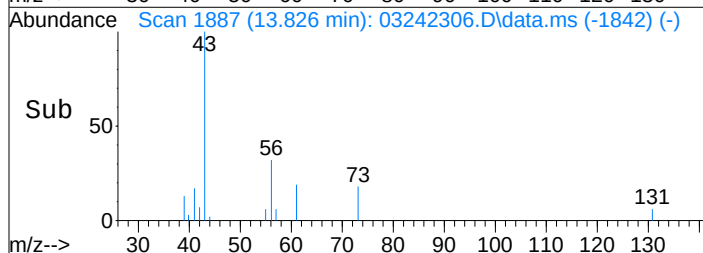
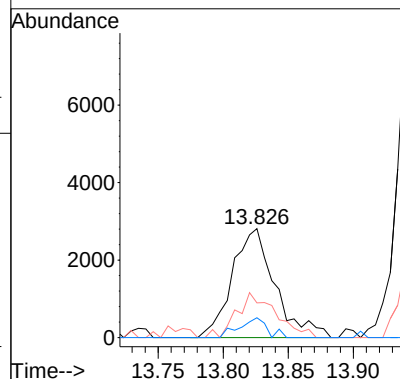
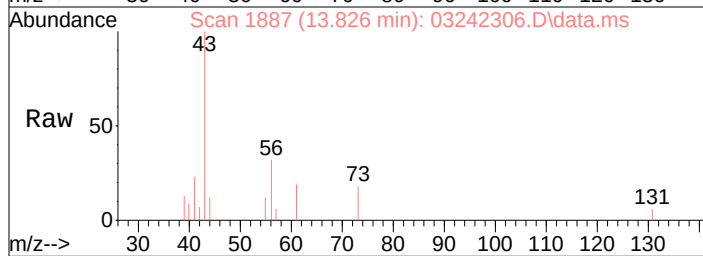
Tgt Ion:	91	Resp:	145637
Ion Ratio	Lower	Upper	
91	100		
92	57.6	38.0	78.0





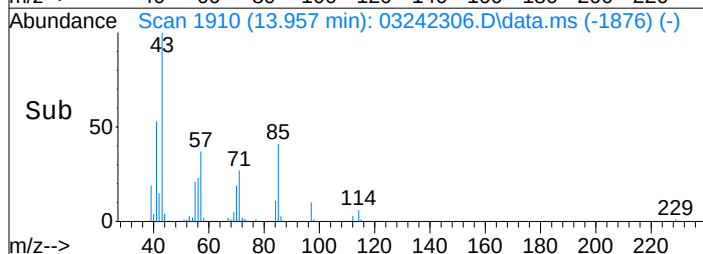
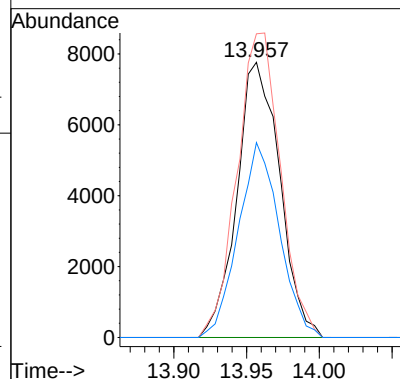
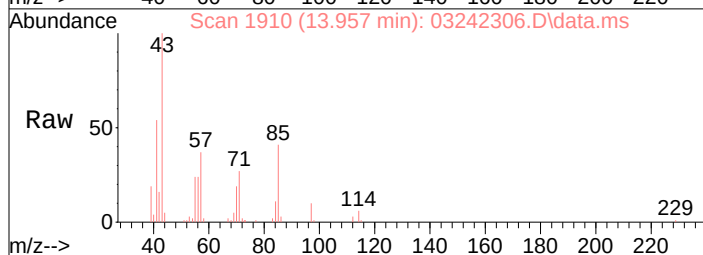
#62
n-Butyl Acetate
Concen: 0.12 ng
RT: 13.83 min Scan# 1887
Delta R.T. 0.006 min
Lab File: 03242306.D
Acq: 24 Mar 2023 8:29

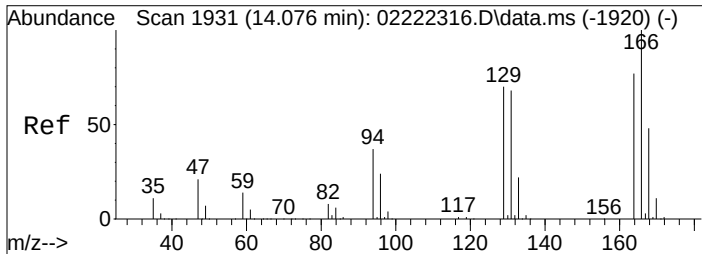
Tgt Ion:	43	Resp:	6419
Ion Ratio		Lower	Upper
43	100		
56	37.8	20.0	60.0
73	11.7	0.0	33.2



#63
n-Octane
Concen: 0.84 ng
RT: 13.96 min Scan# 1910
Delta R.T. -0.006 min
Lab File: 03242306.D
Acq: 24 Mar 2023 8:29

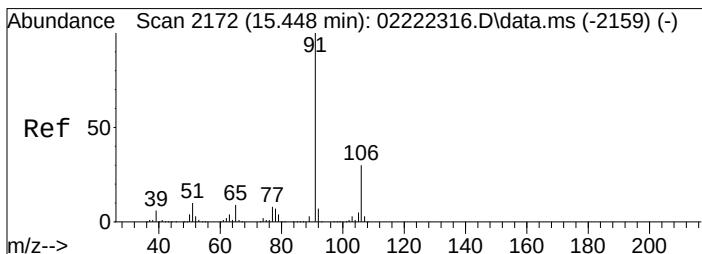
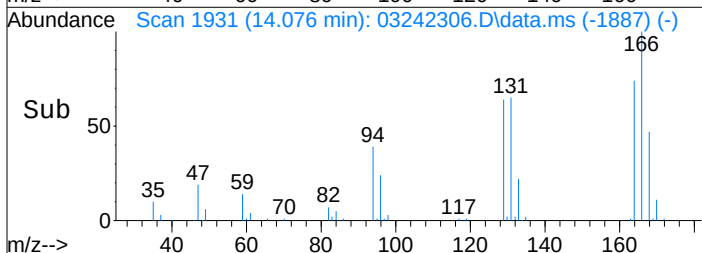
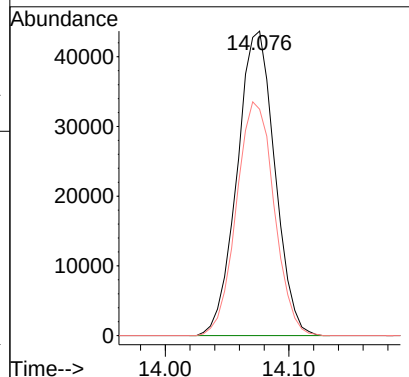
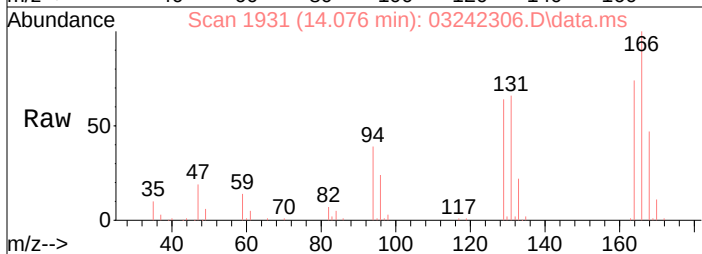
Tgt Ion:	57	Resp:	15945
Ion Ratio		Lower	Upper
57	100		
85	111.9	94.1	141.1
71	67.8	52.6	79.0





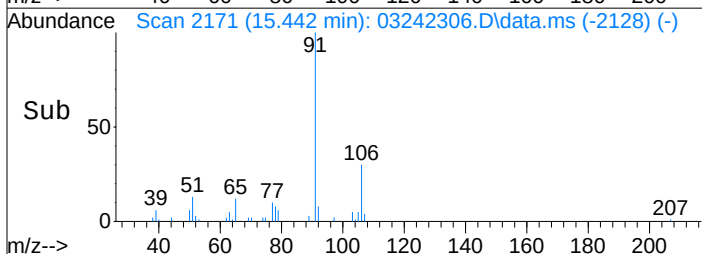
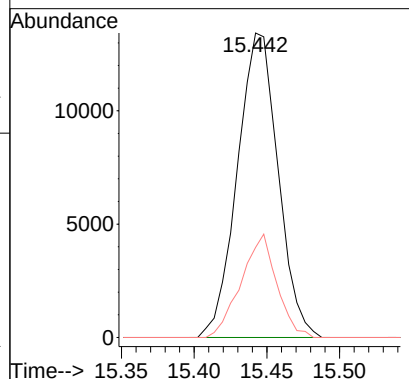
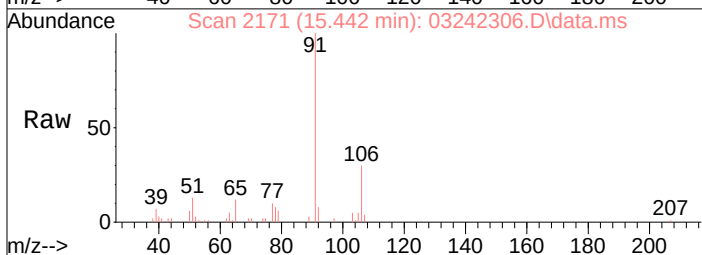
#64
 Tetrachloroethene
 Concen: 3.15 ng
 RT: 14.08 min Scan# 1931
 Delta R.T. 0.000 min
 Lab File: 03242306.D
 Acq: 24 Mar 2023 8:29

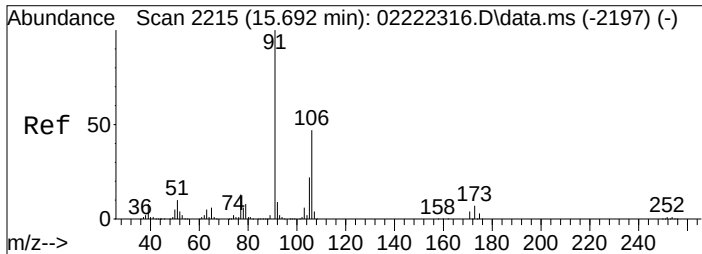
Tgt Ion:	166	Resp:	92706
Ion Ratio	Lower	Upper	
166	100		
164	76.8	57.3	97.3



#66
 Ethylbenzene
 Concen: 0.23 ng
 RT: 15.44 min Scan# 2171
 Delta R.T. -0.006 min
 Lab File: 03242306.D
 Acq: 24 Mar 2023 8:29

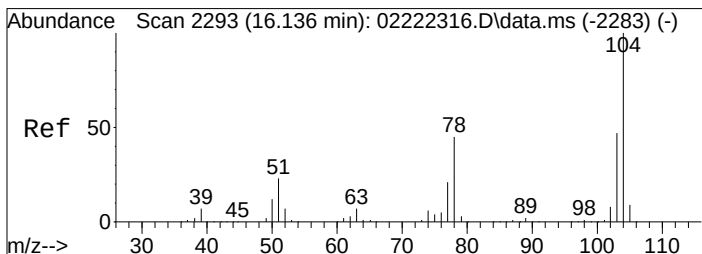
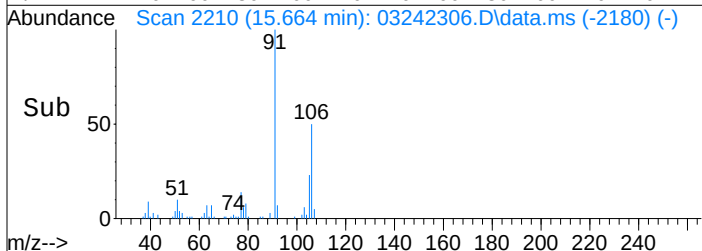
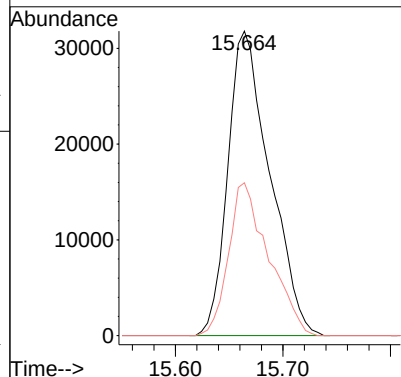
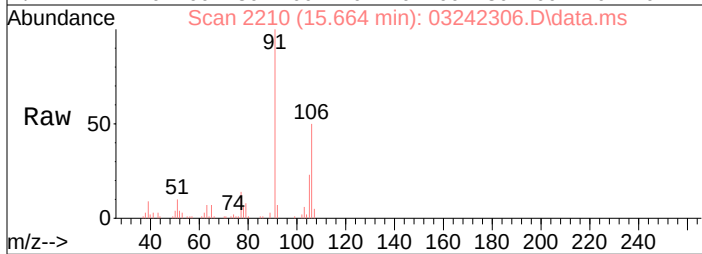
Tgt Ion:	91	Resp:	26152
Ion Ratio	Lower	Upper	
91	100		
106	29.7	10.4	50.4





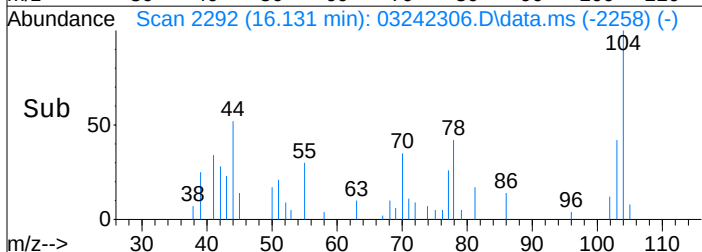
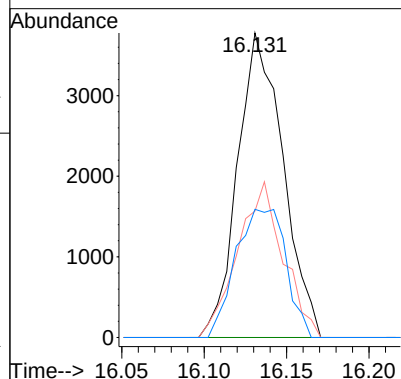
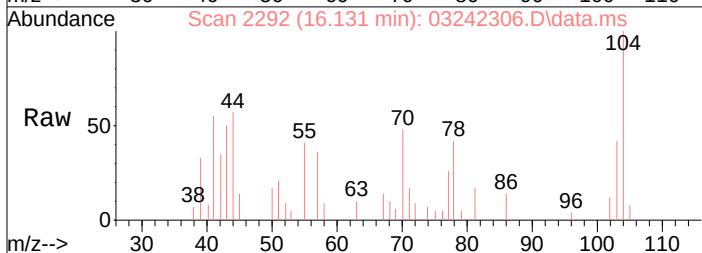
#67
 m- & p-Xylenes
 Concen: 0.93 ng
 RT: 15.66 min Scan# 2210
 Delta R.T. -0.028 min
 Lab File: 03242306.D
 Acq: 24 Mar 2023 8:29

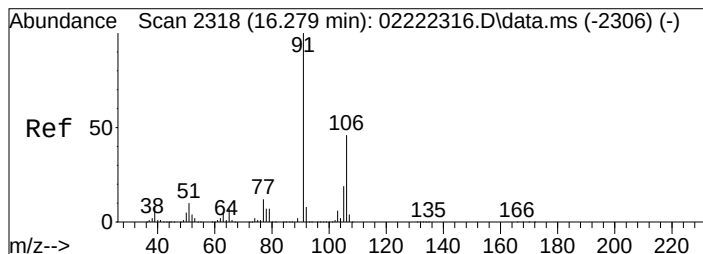
Tgt Ion:	91	Resp:	86050
Ion Ratio	Lower	Upper	
91	100		
106	48.0	26.2	66.2



#69
 Styrene
 Concen: 0.11 ng
 RT: 16.13 min Scan# 2292
 Delta R.T. -0.006 min
 Lab File: 03242306.D
 Acq: 24 Mar 2023 8:29

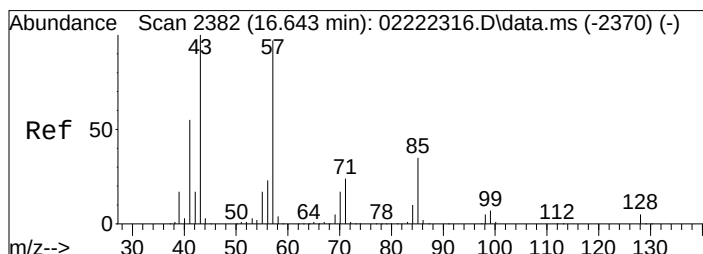
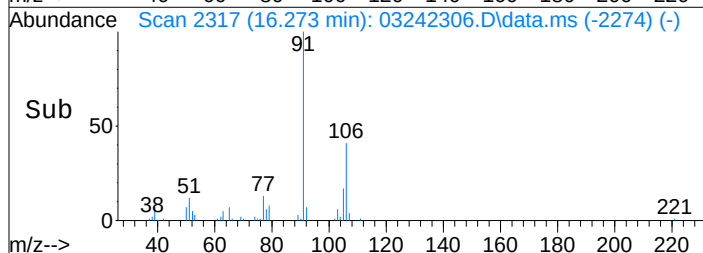
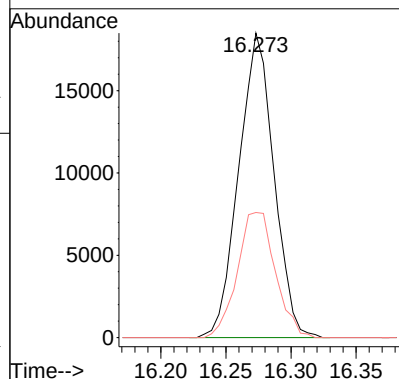
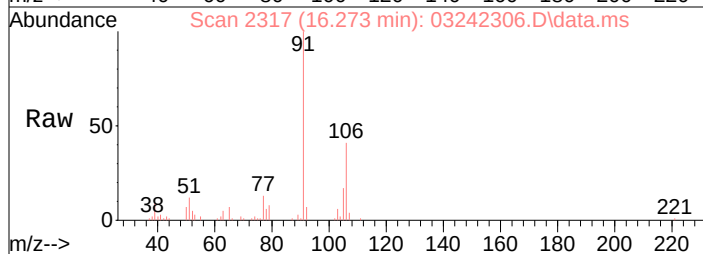
Tgt Ion:	104	Resp:	7246
Ion Ratio	Lower	Upper	
104	100		
78	51.0	24.7	64.7
103	46.6	27.8	67.8





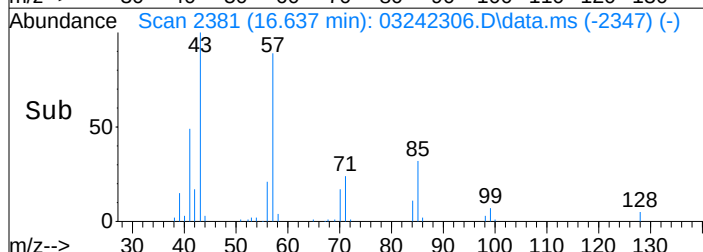
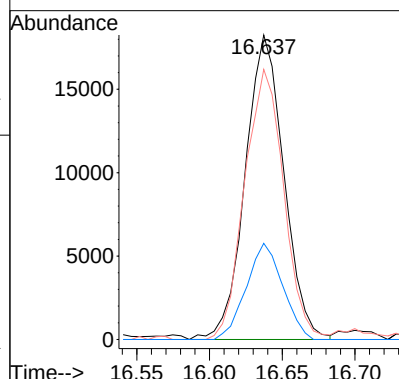
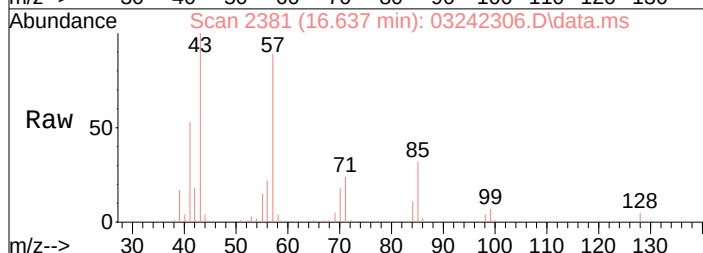
#70
o-Xylene
Concen: 0.39 ng
RT: 16.27 min Scan# 2317
Delta R.T. -0.006 min
Lab File: 03242306.D
Acq: 24 Mar 2023 8:29

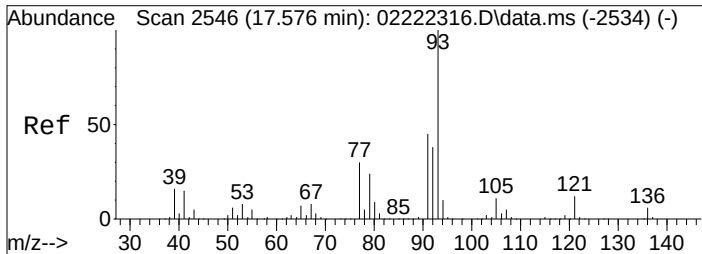
Tgt Ion: 91 Resp: 34730
Ion Ratio Lower Upper
91 100
106 44.5 25.4 65.4



#71
n-Nonane
Concen: 0.78 ng
RT: 16.64 min Scan# 2381
Delta R.T. -0.006 min
Lab File: 03242306.D
Acq: 24 Mar 2023 8:29

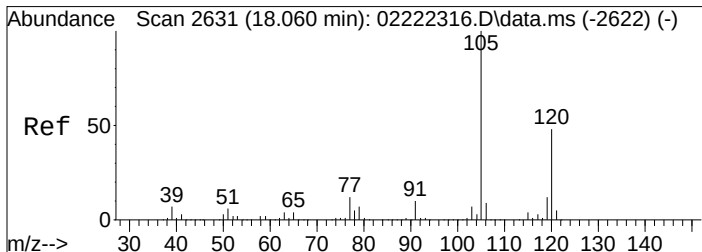
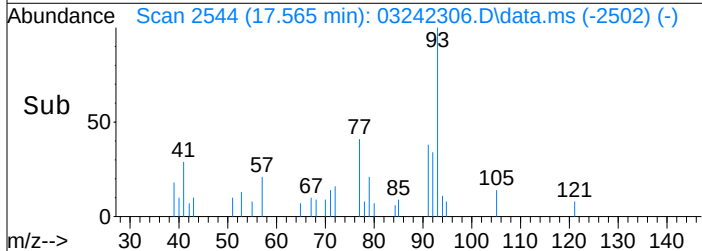
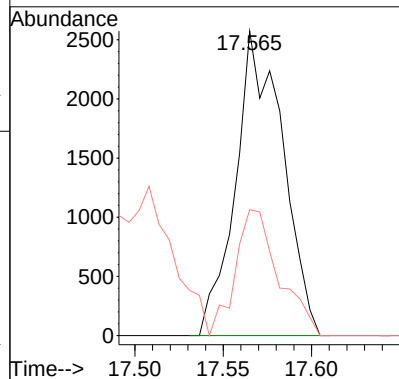
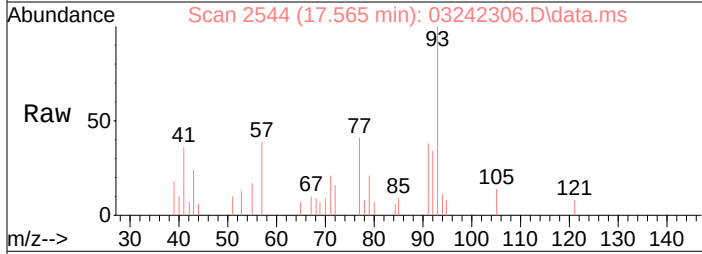
Tgt Ion: 43 Resp: 33763
Ion Ratio Lower Upper
43 100
57 89.4 74.2 114.2
85 29.8 14.2 54.2





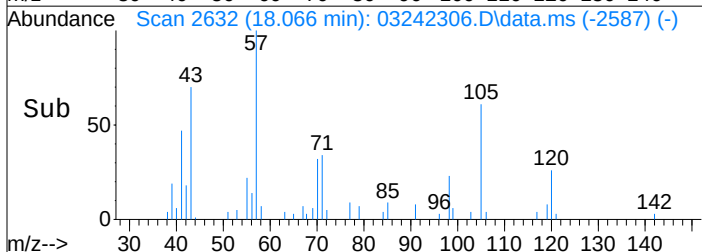
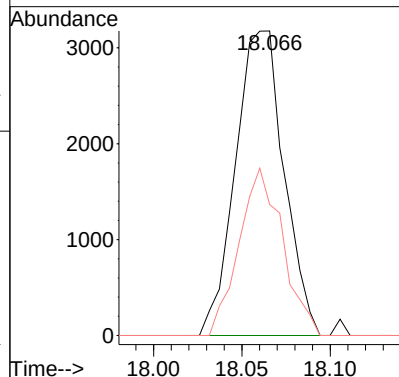
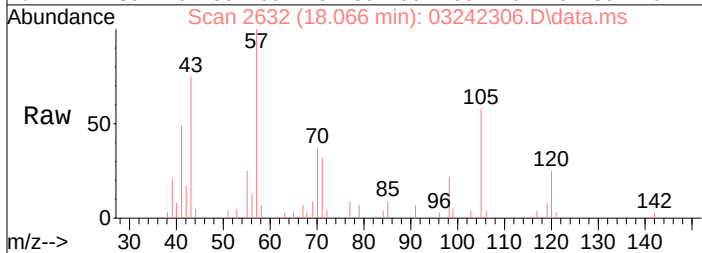
#75
 alpha-Pinene
 Concen: 0.10 ng
 RT: 17.56 min Scan# 2544
 Delta R.T. -0.011 min
 Lab File: 03242306.D
 Acq: 24 Mar 2023 8:29

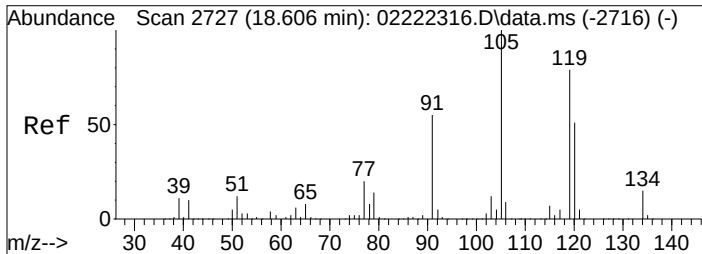
Tgt Ion: 93 Resp: 4768
 Ion Ratio Lower Upper
 93 100
 77 38.3 11.1 51.1



#79
 1,3,5-Trimethylbenzene
 Concen: 0.07 ng
 RT: 18.07 min Scan# 2632
 Delta R.T. 0.006 min
 Lab File: 03242306.D
 Acq: 24 Mar 2023 8:29

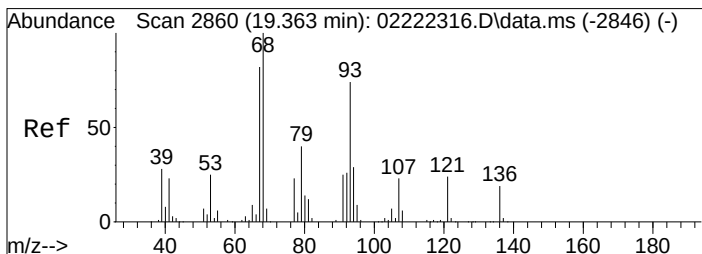
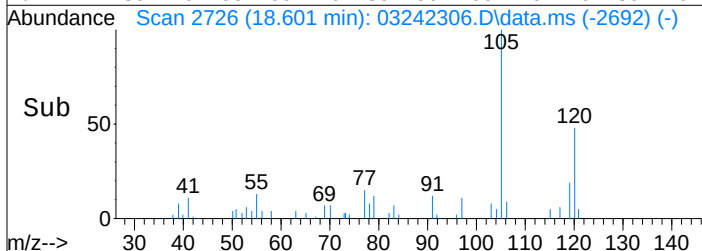
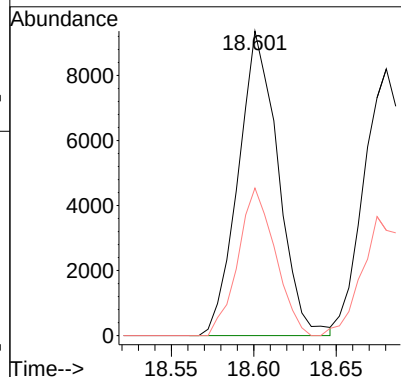
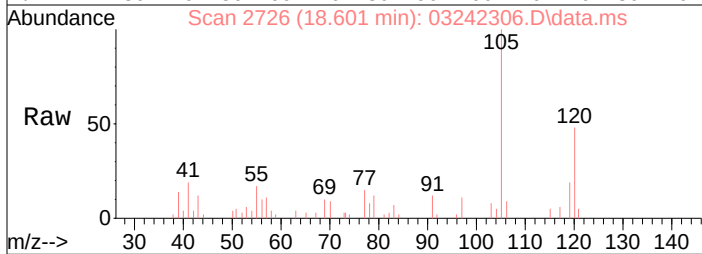
Tgt Ion: 105 Resp: 6088
 Ion Ratio Lower Upper
 105 100
 120 49.1 28.4 68.4





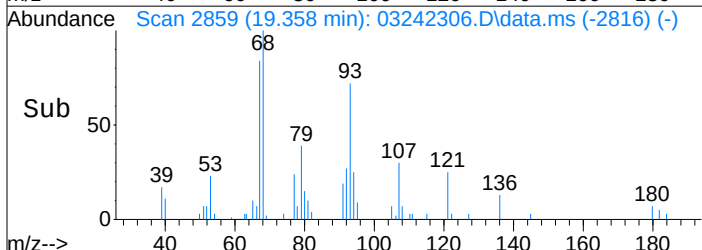
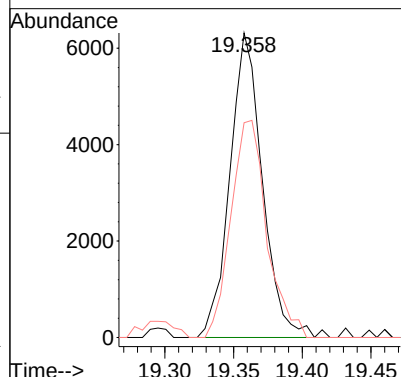
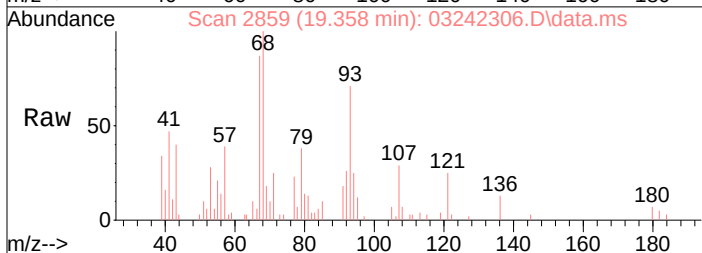
#82
 1,2,4-Trimethylbenzene
 Concen: 0.17 ng
 RT: 18.60 min Scan# 2726
 Delta R.T. -0.006 min
 Lab File: 03242306.D
 Acq: 24 Mar 2023 8:29

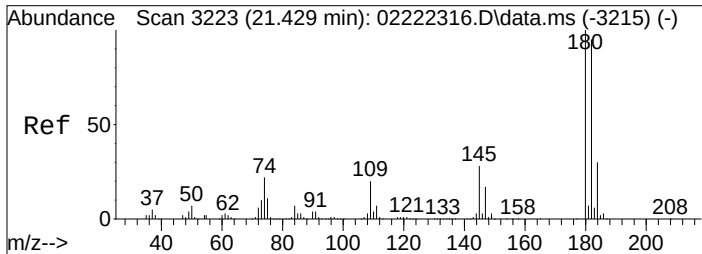
Tgt Ion:	105	Resp:	15752
Ion Ratio		Lower	Upper
105	100		
120	45.3	32.8	72.8



#91
 d-Limonene
 Concen: 0.34 ng
 RT: 19.36 min Scan# 2859
 Delta R.T. -0.006 min
 Lab File: 03242306.D
 Acq: 24 Mar 2023 8:29

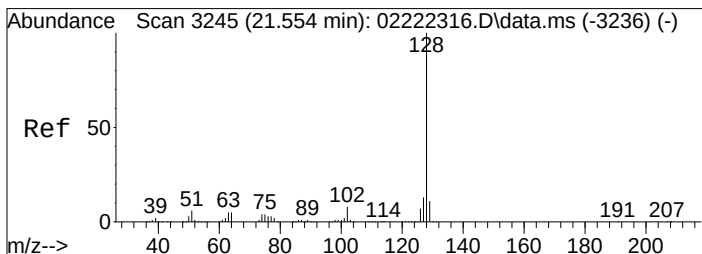
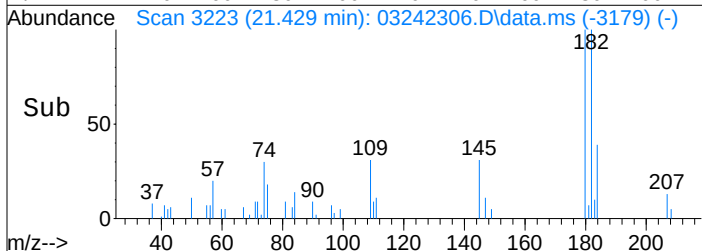
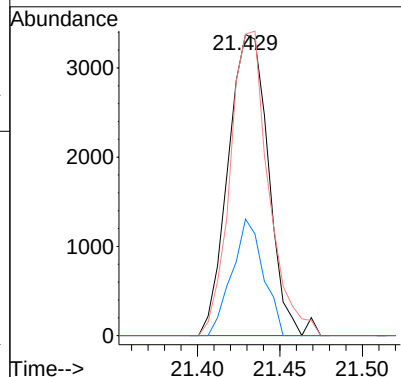
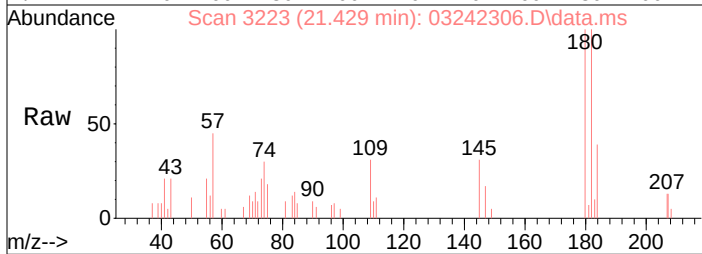
Tgt Ion:	68	Resp:	10419
Ion Ratio		Lower	Upper
68	100		
93	78.3	54.8	94.8





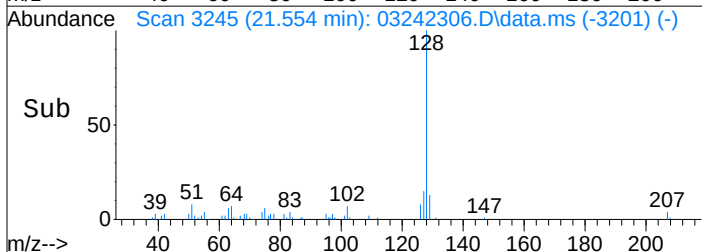
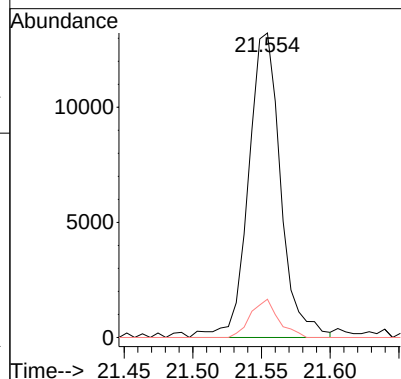
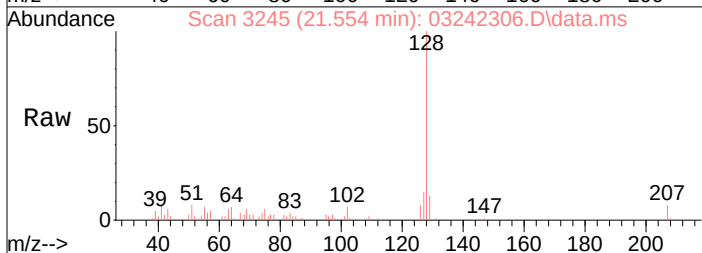
#94
 1,2,4-Trichlorobenzene
 Concen: 0.14 ng
 RT: 21.43 min Scan# 3223
 Delta R.T. 0.000 min
 Lab File: 03242306.D
 Acq: 24 Mar 2023 8:29

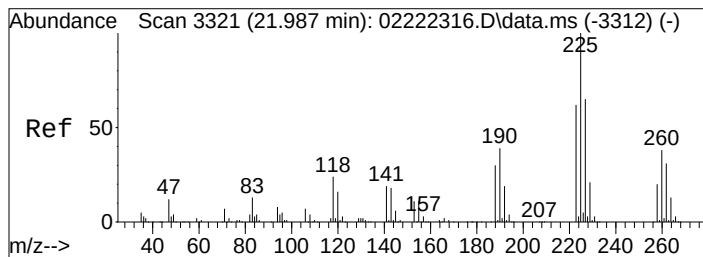
Tgt Ion:	180	Resp:	5738
Ion Ratio		Lower	Upper
180	100		
182	96.3	76.6	115.0
184	30.2	24.4	36.6



#95
 Naphthalene
 Concen: 0.22 ng
 RT: 21.55 min Scan# 3245
 Delta R.T. 0.000 min
 Lab File: 03242306.D
 Acq: 24 Mar 2023 8:29

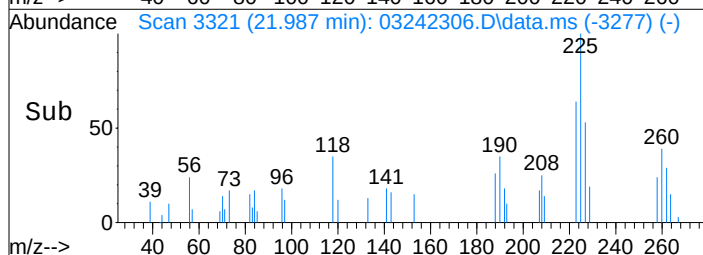
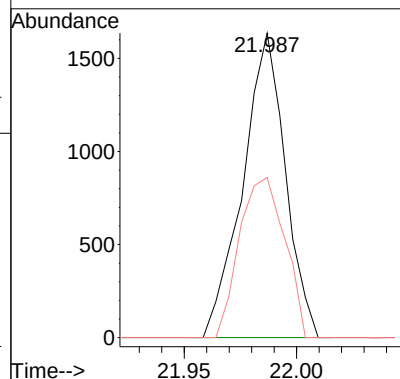
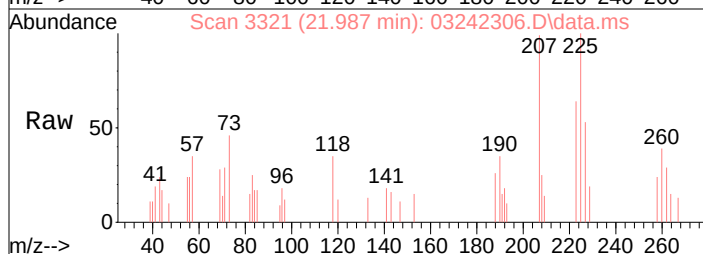
Tgt Ion:	128	Resp:	21589
Ion Ratio		Lower	Upper
128	100		
129	10.9	0.0	30.9





#97
 Hexachlorobutadiene
 Concen: 0.07 ng
 RT: 21.99 min Scan# 3321
 Delta R.T. 0.000 min
 Lab File: 03242306.D
 Acq: 24 Mar 2023 8:29

Tgt Ion: 225 Resp: 2148
 Ion Ratio Lower Upper
 225 100
 227 56.1 44.9 84.9



Data File : I:\MS13\DATA\2023_03\24\03242306.D
 Acq On : 24 Mar 2023 8:29
 Sample : P2301250-004 (1000mL)
 Misc : S35-01202301

Vial: 11
 Operator: TZ
 Inst : MS13

TZ 3/27/23

Quant Time: Mar 27 16:05:13 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.32	130	251877	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	9.38	114	1099782	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	14.88	54	197841	12.500	ng	0.00

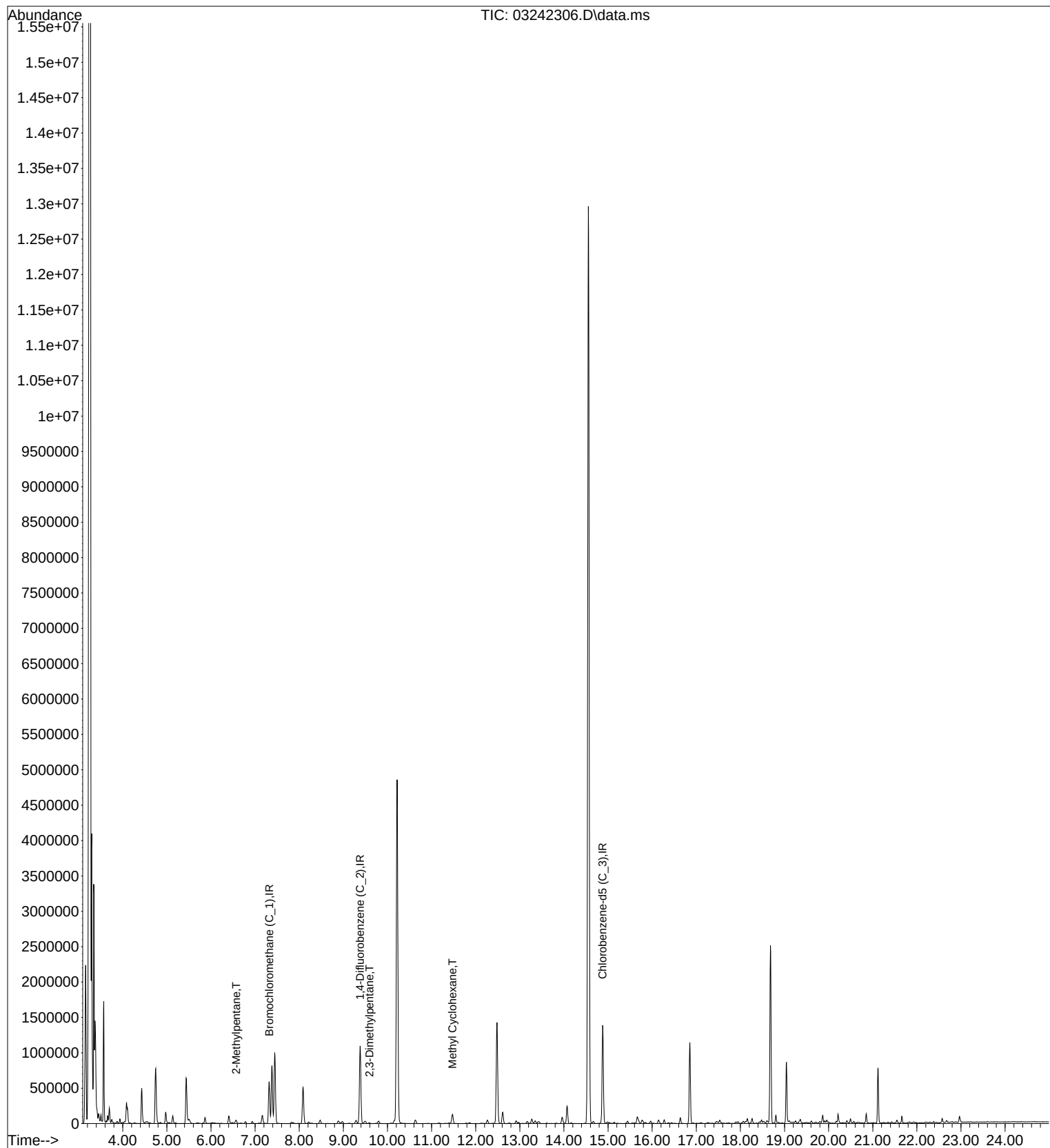
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	0.00	85	0	N.D.	d	
3) 1,1,1,2-Tetrafluoroeth...	0.00	83	0	N.D.	d	
4) 1,1-Difluoroethane	0.00	65	0	N.D.	d	
5) Chlorodifluoromethane ...	3.35	67	372	N.D.		
6) 1-Chloro-1,1-Difluoroe...	3.61	65	682	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	0.00	43	0	N.D.	d	
12) 2-Methylpentane	6.58	71	9951	0.565	ng	# 1
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	9.09	84	92	N.D.		
17) 2,3-Dimethylpentane	9.59	56	5527	0.171	ng	# 79
18) Dibromomethane	9.88	174	376	N.D.		
20) Methyl Cyclohexane	11.48	55	56865	1.727	ng	87
21) 1,3-Dichloropropane	12.61	76	690	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	15.23	91	133	N.D.		
24) 1,2,3-Trichloropropane	16.37	75	585	N.D.		
25) Bromobenzene	17.05	77	559	N.D.		
26) 2-Chlorotoluene	17.75	91	5267	N.D.		
27) 4-Chlorotoluene	17.75	91	5267	N.D.		
28) Indane	19.39	117	1698	N.D.		
29) Indene	19.50	115	256	N.D.		
30) 1,2,4,5-Tetramethylben...	20.70	119	2019	N.D.		
31) 1,2,3,4-Tetramethylben...	20.70	119	2019	N.D.		
32) 1,2,3,5-Tetramethylben...	21.12	119	4157	N.D.		
33) 1,2,3-Trichlorobenzene	21.86	180	81	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242306.D
Acq On : 24 Mar 2023 8:29
Sample : P2301250-004 (1000mL)
Misc : S35-01202301

Vial: 11
Operator: TZ
Inst : MS13

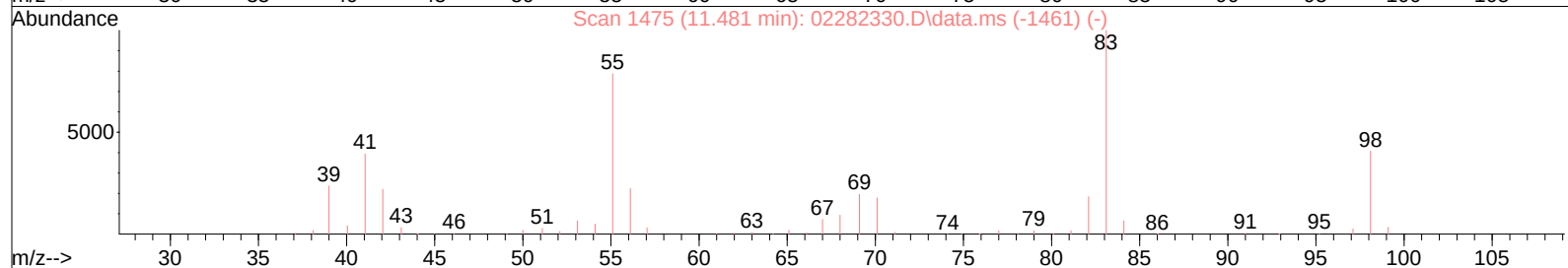
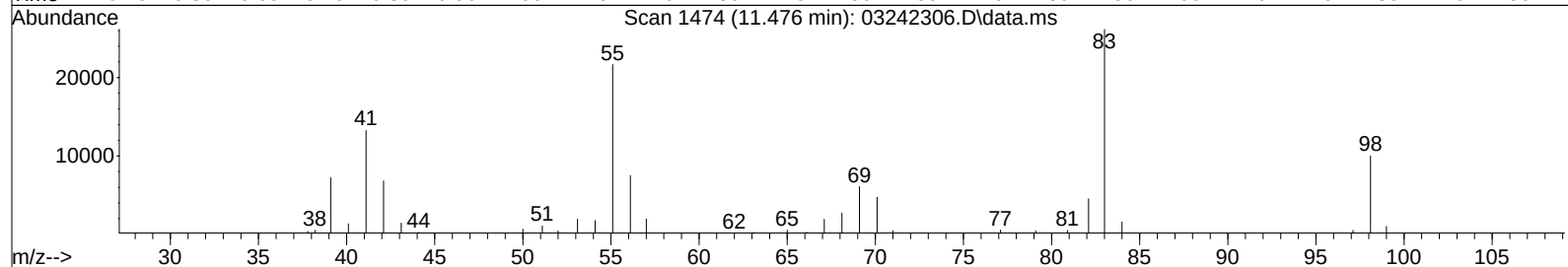
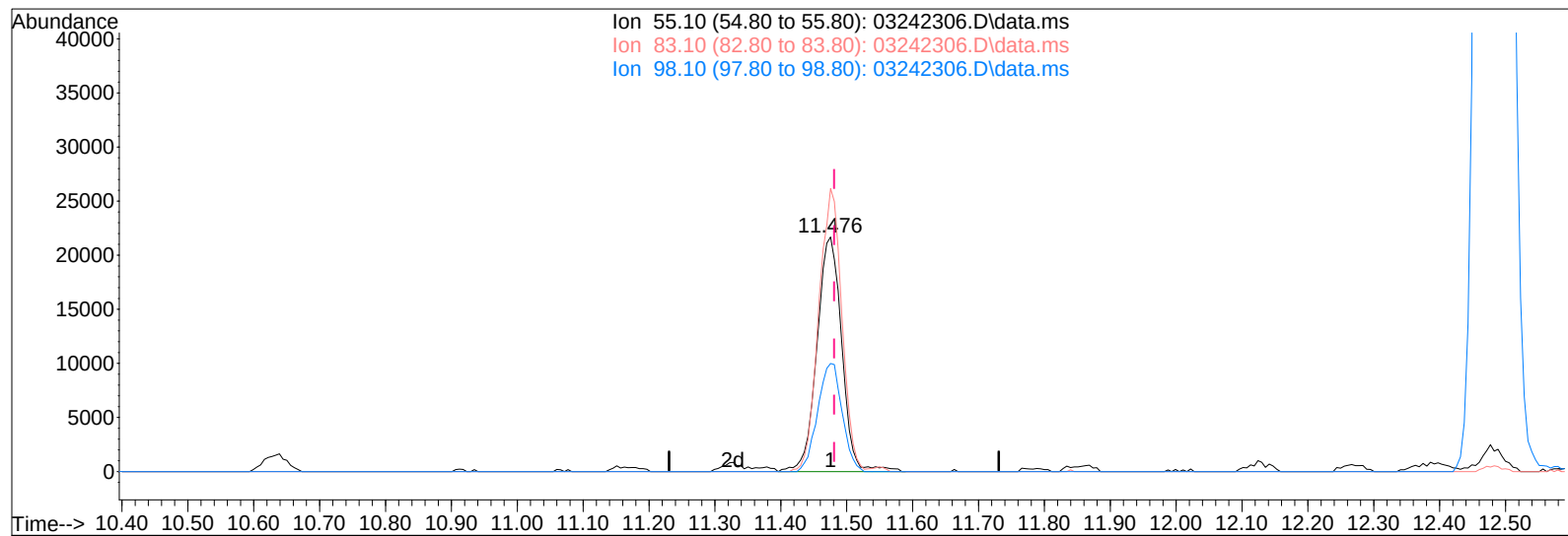
Quant Time: Mar 27 16:05:13 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242306.D
Acq On : 24 Mar 2023 8:29
Sample : P2301250-004 (1000mL)
Misc : S35-01202301

Vial: 11
Operator: TZ
Inst : MS13

Quant Time: Mar 27 16:04:02 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03242306.D\data.ms

(20) Methyl Cyclohexane (T)

11.476min (-0.005) 1.73ng

response 56865

Ion	Exp%	Act%
55.10	100	100
83.10	128.30	112.40
98.10	53.10	45.24
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG4-1

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01256

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/23/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.29 Final Pressure (psig): 3.85

Container Dilution Factor: 1.63

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	0.86	0.14	0.49	0.17	0.029	
74-87-3	Chloromethane	0.19	0.34	0.14	0.090	0.17	0.068	J
75-01-4	Vinyl Chloride	ND	0.18	0.093	ND	0.070	0.036	
74-83-9	Bromomethane	ND	0.34	0.12	ND	0.088	0.031	
75-00-3	Chloroethane	ND	0.34	0.11	ND	0.13	0.041	
67-64-1	Acetone	33	8.6	2.0	14	3.6	0.82	
75-69-4	Trichlorofluoromethane	1.2	0.85	0.13	0.22	0.15	0.024	
75-35-4	1,1-Dichloroethene	ND	0.18	0.12	ND	0.045	0.030	
75-09-2	Methylene Chloride	3.8	0.86	0.24	1.1	0.25	0.070	
76-13-1	Trichlorotrifluoroethane	0.50	0.88	0.12	0.066	0.11	0.016	J
75-15-0	Carbon Disulfide	1.2	1.7	0.26	0.38	0.56	0.084	J
156-60-5	trans-1,2-Dichloroethene	ND	0.18	0.12	ND	0.045	0.030	
75-34-3	1,1-Dichloroethane	ND	0.18	0.13	ND	0.044	0.031	
1634-04-4	Methyl tert-Butyl Ether	ND	0.88	0.10	ND	0.24	0.028	
78-93-3	2-Butanone (MEK)	3.5	1.7	0.18	1.2	0.58	0.061	
156-59-2	cis-1,2-Dichloroethene	0.30	0.18	0.12	0.074	0.045	0.031	
67-66-3	Chloroform	0.26	0.18	0.12	0.053	0.037	0.024	
107-06-2	1,2-Dichloroethane	ND	0.18	0.096	ND	0.044	0.024	
71-55-6	1,1,1-Trichloroethane	0.30	0.18	0.11	0.055	0.033	0.020	
71-43-2	Benzene	1.7	0.18	0.13	0.52	0.056	0.039	
56-23-5	Carbon Tetrachloride	0.47	0.18	0.12	0.075	0.029	0.019	
110-82-7	Cyclohexane	0.50	1.7	0.24	0.14	0.50	0.071	J
78-87-5	1,2-Dichloropropane	ND	0.18	0.11	ND	0.039	0.023	
75-27-4	Bromodichloromethane	ND	0.18	0.13	ND	0.027	0.019	
79-01-6	Trichloroethene	48	0.18	0.12	9.0	0.033	0.022	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG4-1

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01256

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/23/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.29 Final Pressure (psig): 3.85

Container Dilution Factor: 1.63

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.88	0.14	ND	0.19	0.030	
108-10-1	4-Methyl-2-pentanone	0.30	1.8	0.12	0.073	0.44	0.029	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.83	0.18	ND	0.18	0.040	
79-00-5	1,1,2-Trichloroethane	ND	0.18	0.088	ND	0.033	0.016	
108-88-3	Toluene	6.3	0.86	0.11	1.7	0.23	0.028	
591-78-6	2-Hexanone	ND	1.8	0.11	ND	0.44	0.026	
124-48-1	Dibromochloromethane	ND	0.18	0.11	ND	0.021	0.013	
106-93-4	1,2-Dibromoethane	ND	0.18	0.10	ND	0.023	0.013	
127-18-4	Tetrachloroethene	21	0.18	0.11	3.1	0.026	0.017	
108-90-7	Chlorobenzene	ND	0.86	0.12	ND	0.19	0.025	
100-41-4	Ethylbenzene	1.9	0.86	0.12	0.44	0.20	0.028	
179601-23-1	m,p-Xylenes	8.0	1.8	0.23	1.8	0.41	0.053	
75-25-2	Bromoform	ND	0.88	0.18	ND	0.085	0.017	
100-42-5	Styrene	0.61	0.86	0.14	0.14	0.20	0.033	J
95-47-6	o-Xylene	3.1	0.86	0.13	0.72	0.20	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.18	0.12	ND	0.026	0.018	
98-82-8	Cumene	0.23	0.88	0.13	0.047	0.18	0.026	J
541-73-1	1,3-Dichlorobenzene	ND	0.86	0.13	ND	0.14	0.022	
106-46-7	1,4-Dichlorobenzene	ND	0.86	0.13	ND	0.14	0.022	
95-50-1	1,2-Dichlorobenzene	ND	0.88	0.13	ND	0.15	0.021	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.8	0.16	ND	0.19	0.017	
120-82-1	1,2,4-Trichlorobenzene	ND	1.8	0.21	ND	0.24	0.029	
79-20-9	Methyl Acetate	ND	0.82	0.39	ND	0.27	0.13	X
108-87-2	Methylcyclohexane	1.4	0.82	0.42	0.34	0.20	0.11	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS13\DATA\2023_03\23\03232329.D
 Acq On : 23 Mar 2023 23:02
 Sample : P2301250-005 (1000mL)
 Misc : S35-01202301

Vial: 12
 Operator: TZ
 Inst : MS13

Quant Time: Mar 27 10:01:04 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	240346	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.37	114	1067128	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.88	54	197117	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	408975	12.822	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.56%
57) Toluene-d8 (SS2)	12.48	98	1206337	11.900	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	95.20%
73) Bromofluorobenzene (SS3)	16.85	174	442957	11.930	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	95.44%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	3.46	85	66036	1.500	ng	100
4) Chloromethane	3.60	50	3610	0.114	ng	91
5) 1,2-Dichloro-1,1,2,2-t...	3.71	135	1378	0.062	ng	96
6) Vinyl Chloride	3.80	62	981	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.	d	
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	4.42	45	1477221	86.541	ng	100
11) Acetonitrile	4.54	41	6676	0.151	ng	# 60
12) Acrolein	4.63	56	1536	0.109	ng	94
13) Acetone	4.72	58	292624	20.086	ng	92
14) Trichlorofluoromethane	4.85	101	29462	0.743	ng	98
15) 2-Propanol (Isopropanol)	4.96	45	169753	2.886	ng	97
16) Acrylonitrile	0.00	53	0	N.D.	d	
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.44	84	50144	2.348	ng	96
20) 3-Chloro-1-propene (Al...	5.59	41	166	N.D.		
21) Trichlorotrifluoroethane	5.67	151	6420	0.308	ng	100
22) Carbon Disulfide	5.69	76	61777	0.731	ng	100
23) trans-1,2-Dichloroethene	6.23	61	184	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.	d	
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.	d	
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	6.75	72	28124	2.175	ng	99
28) cis-1,2-Dichloroethene	7.16	61	5552	0.181	ng	98
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	7.37	61	137136	16.126	ng	95
31) n-Hexane	7.38	57	26866	0.821	ng	99
32) Chloroform	7.43	83	6212	0.160	ng	97
34) Tetrahydrofuran (THF)	7.86	72	1152	0.087	ng	# 1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.19	62	702	N.D.		
38) 1,1,1-Trichloroethane	8.47	97	6541	0.185	ng	97
39) Isopropyl Acetate	9.38	61	29908	No Calib		
40) 1-Butanol	8.87	56	50089	No Calib	#	
41) Benzene	8.97	78	84488	1.018	ng	100
42) Carbon Tetrachloride	9.14	117	9009	0.289	ng	95
43) Cyclohexane	9.28	84	9300	0.306	ng	93
44) tert-Amyl Methyl Ether	9.65	73	378	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	10.16	83	506	N.D.		
47) Trichloroethene	10.21	130	719958	29.603	ng	99
48) 1,4-Dioxane	0.00	88	0	N.D.	d	
49) 2,2,4-Trimethylpentane...	10.20	57	990	N.D.		
50) Methyl Methacrylate	10.37	100	322	N.D.		

Data File : I:\MS13\DATA\2023_03\23\03232329.D
 Acq On : 23 Mar 2023 23:02
 Sample : P2301250-005 (1000mL)
 Misc : S35-01202301

Vial: 12
 Operator: TZ
 Inst : MS13

Quant Time: Mar 27 10:01:04 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.63	71	19887	0.990	ng	95
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.39	58	3284	0.183	ng	79
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.61	91	371167	3.846	ng	100
59) 2-Hexanone	0.00	43	0	N.D.	d	
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.81	43	12240	0.230	ng	97
63) n-Octane	13.96	57	25995	1.370	ng	96
64) Tetrachloroethene	14.07	166	383162	13.051	ng	100
65) Chlorobenzene	14.93	112	2294	N.D.		
66) Ethylbenzene	15.44	91	134788	1.171	ng	99
67) m- & p-Xylenes	15.66	91	455042	4.911	ng	99
68) Bromoform	15.72	173	142	N.D.		
69) Styrene	16.13	104	23859	0.374	ng	98
70) o-Xylene	16.27	91	170370	1.923	ng	98
71) n-Nonane	16.64	43	69289	1.616	ng	98
72) 1,1,2,2-Tetrachloroethane	16.15	83	127	N.D.		
74) Cumene	17.05	105	15447	0.143	ng	99
75) alpha-Pinene	17.57	93	8312	0.167	ng	93
76) n-Propylbenzene	17.74	91	50687	0.392	ng	99
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	75973	0.735	ng	98
79) 1,3,5-Trimethylbenzene	18.06	105	44773	0.490	ng	99
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.60	105	131530	1.459	ng	88
83) n-Decane	17.09	58	805	No Calib	#	
84) Benzyl Chloride	18.75	91	332	N.D.		
85) 1,3-Dichlorobenzene	18.77	146	1338	N.D.		
86) 1,4-Dichlorobenzene	18.86	146	2842	0.050	ng	100
87) sec-Butylbenzene	18.95	105	2364	N.D.		
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.	d	
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.29	146	2455	N.D.		
91) d-Limonene	19.36	68	364410	11.956	ng	100
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.25	58	6431	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	343	N.D.		
95) Naphthalene	21.55	128	14781	0.151	ng	98
96) n-Dodecane	19.20	58	1057	No Calib	#	
97) Hexachlorobutadiene	21.99	225	172	N.D.		
98) Cyclohexanone	15.66	55	738	No Calib	#	
99) tert-Butylbenzene	0.00	119	0	N.D.	d	
100) n-Butylbenzene	0.00	91	0	N.D.	d	
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\23\03232329.D
Acq On : 23 Mar 2023 23:02
Sample : P2301250-005 (1000mL)
Misc : S35-01202301

Vial: 12
Operator: TZ
Inst : MS13

Quant Time: Mar 27 10:01:04 2023

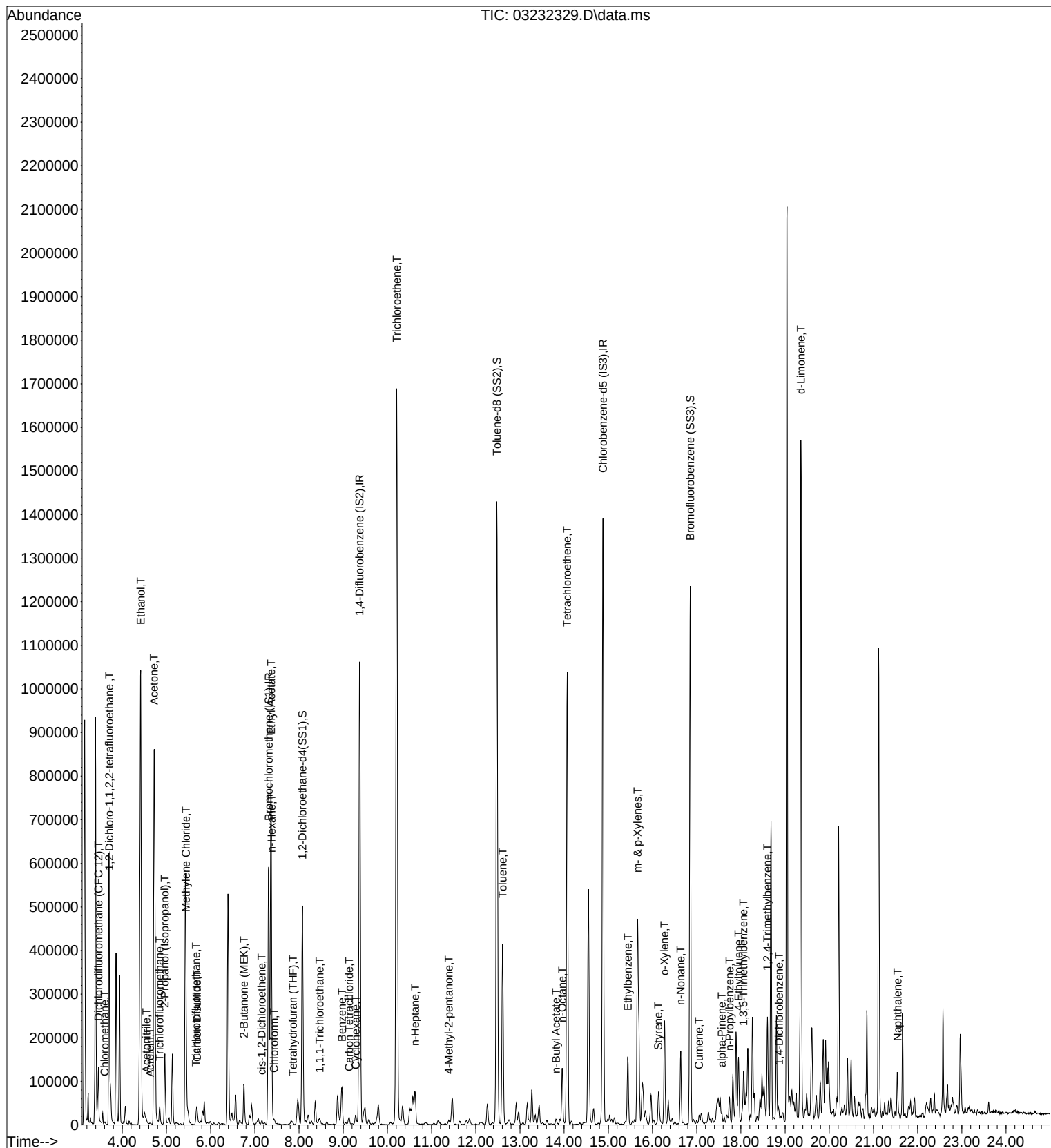
Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\23\03232329.D
 Acq On : 23 Mar 2023 23:02
 Sample : P2301250-005 (1000mL)
 Misc : S35-01202301

Vial: 12
 Operator: TZ
 Inst : MS13

Quant Time: Mar 27 10:01:04 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	240346	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.37	114	1067128	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.88	54	197117	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	408975	12.822	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.56%
57) Toluene-d8 (SS2)	12.48	98	1206337	11.900	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	95.20%
73) Bromofluorobenzene (SS3)	16.85	174	442957	11.930	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	95.44%

Target Compounds

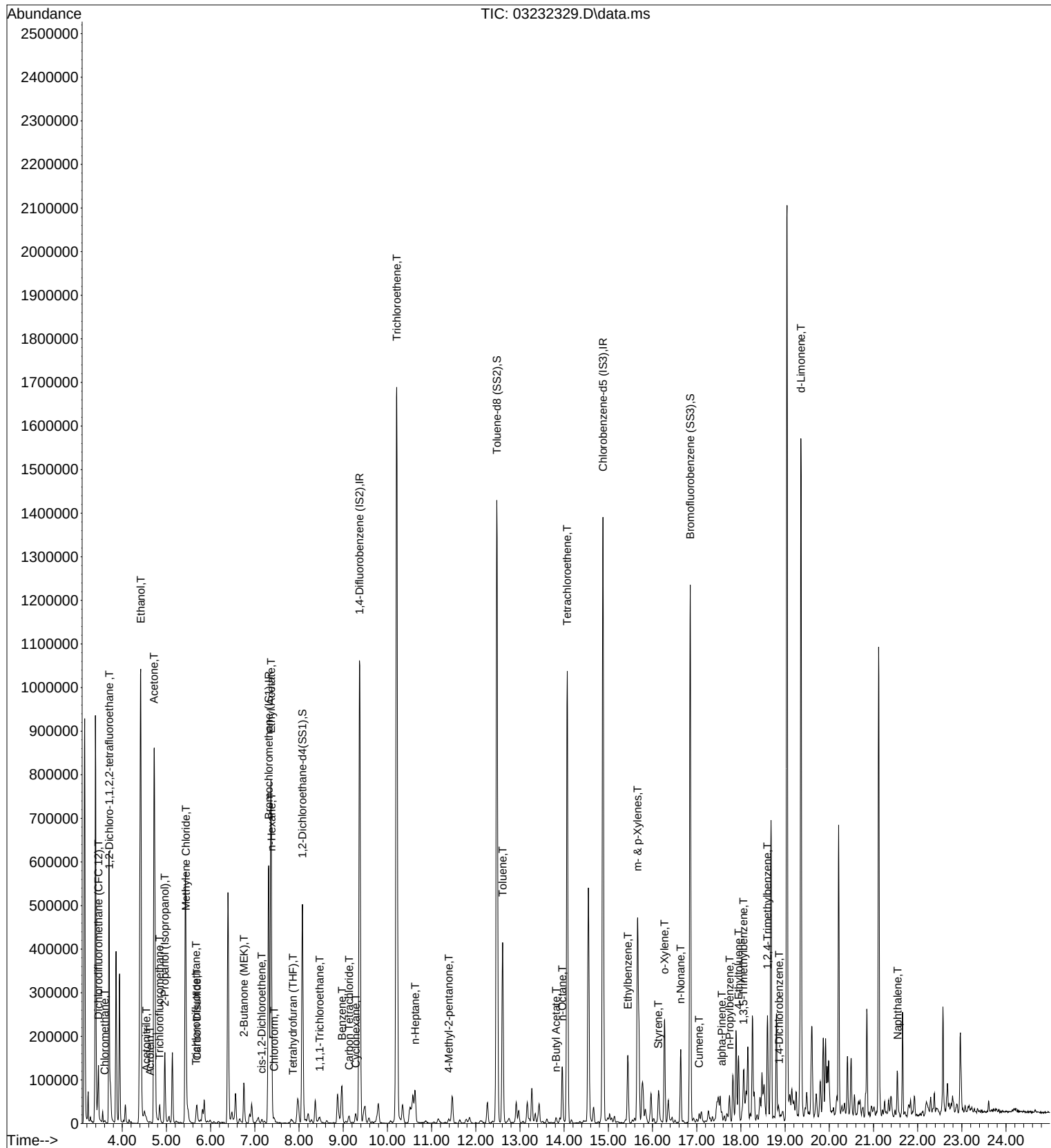
						Qvalue
3) Dichlorodifluoromethan...	3.46	85	66036	1.500	ng	100
4) Chloromethane	3.60	50	3610	0.114	ng	91
5) 1,2-Dichloro-1,1,2,2-t...	3.71	135	1378	0.062	ng	96
10) Ethanol	4.42	45	1477221	86.541	ng	100
11) Acetonitrile	4.54	41	6676	0.151	ng	# 60
12) Acrolein	4.63	56	1536	0.109	ng	94
13) Acetone	4.72	58	292624	20.086	ng	92
14) Trichlorofluoromethane	4.85	101	29462	0.743	ng	98
15) 2-Propanol (Isopropanol)	4.96	45	169753	2.886	ng	97
19) Methylene Chloride	5.44	84	50144	2.348	ng	96
21) Trichlorotrifluoroethane	5.67	151	6420	0.308	ng	100
22) Carbon Disulfide	5.69	76	61777	0.731	ng	100
27) 2-Butanone (MEK)	6.75	72	28124	2.175	ng	99
28) cis-1,2-Dichloroethene	7.16	61	5552	0.181	ng	98
30) Ethyl Acetate	7.37	61	137136	16.126	ng	95
31) n-Hexane	7.38	57	26866	0.821	ng	99
32) Chloroform	7.43	83	6212	0.160	ng	97
34) Tetrahydrofuran (THF)	7.86	72	1152	0.087	ng	# 1
38) 1,1,1-Trichloroethane	8.47	97	6541	0.185	ng	97
41) Benzene	8.97	78	84488	1.018	ng	100
42) Carbon Tetrachloride	9.14	117	9009	0.289	ng	95
43) Cyclohexane	9.28	84	9300	0.306	ng	93
47) Trichloroethene	10.21	130	719958	29.603	ng	99
51) n-Heptane	10.63	71	19887	0.990	ng	95
53) 4-Methyl-2-pentanone	11.39	58	3284	0.183	ng	79
58) Toluene	12.61	91	371167	3.846	ng	100
62) n-Butyl Acetate	13.81	43	12240	0.230	ng	97
63) n-Octane	13.96	57	25995	1.370	ng	96
64) Tetrachloroethene	14.07	166	383162	13.051	ng	100
66) Ethylbenzene	15.44	91	134788	1.171	ng	99
67) m- & p-Xylenes	15.66	91	455042	4.911	ng	99
69) Styrene	16.13	104	23859	0.374	ng	98
70) o-Xylene	16.27	91	170370	1.923	ng	98
71) n-Nonane	16.64	43	69289	1.616	ng	98
74) Cumene	17.05	105	15447	0.143	ng	99
75) alpha-Pinene	17.57	93	8312	0.167	ng	93
76) n-Propylbenzene	17.74	91	50687	0.392	ng	99
78) 4-Ethyltoluene	17.95	105	75973	0.735	ng	98
79) 1,3,5-Trimethylbenzene	18.06	105	44773	0.490	ng	99
82) 1,2,4-Trimethylbenzene	18.60	105	131530	1.459	ng	88
86) 1,4-Dichlorobenzene	18.86	146	2842	0.050	ng	100
91) d-Limonene	19.36	68	364410	11.956	ng	100
95) Naphthalene	21.55	128	14781	0.151	ng	98

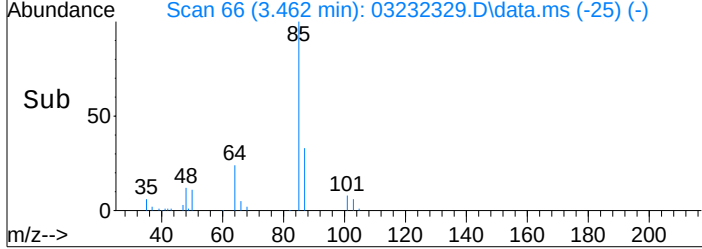
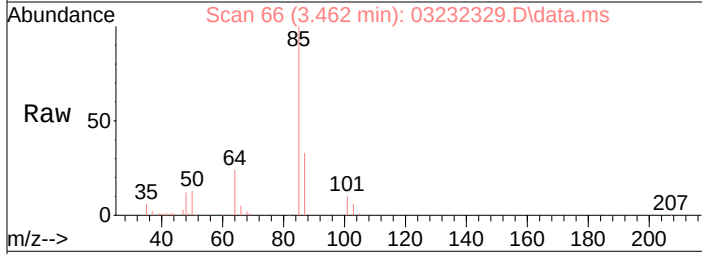
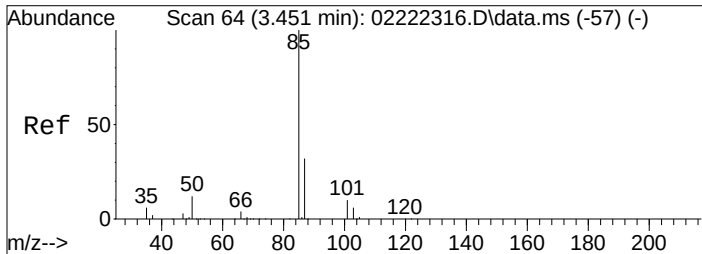
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS13\DATA\2023_03\23\03232329.D
Acq On : 23 Mar 2023 23:02
Sample : P2301250-005 (1000mL)
Misc : S35-01202301

Vial: 12
Operator: TZ
Inst : MS13

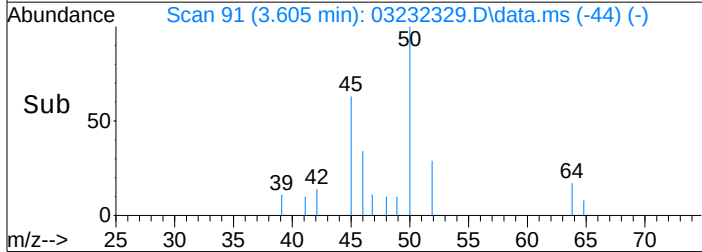
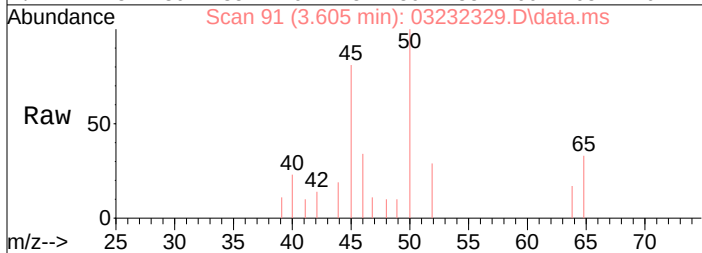
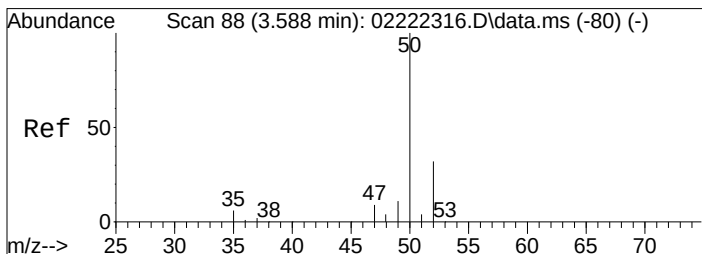
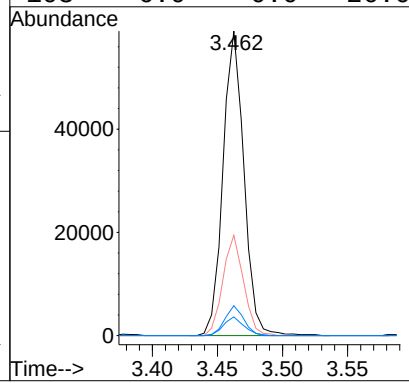
Quant Time: Mar 27 10:01:04 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M





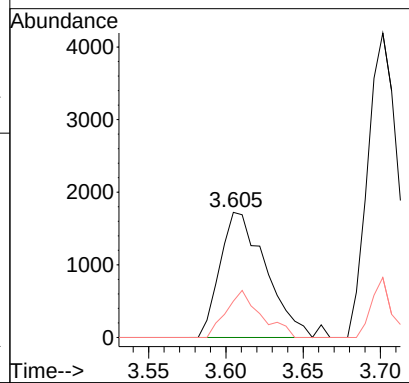
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.50 ng
 RT: 3.46 min Scan# 66
 Delta R.T. -0.016 min
 Lab File: 03232329.D
 Acq: 23 Mar 2023 23:02

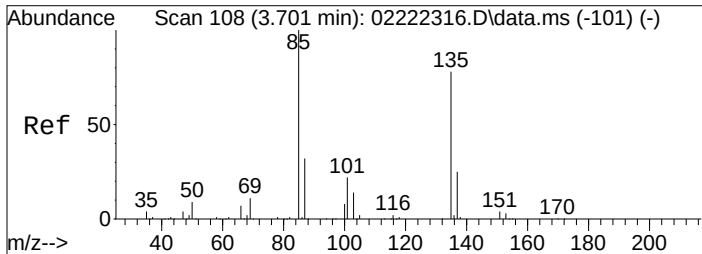
Tgt Ion:	85	Resp:	66036
Ion Ratio	Lower	Upper	
85	100		
87	32.5	12.4	52.4
101	8.9	0.0	29.4
103	6.0	0.0	26.0



#4
 Chloromethane
 Concen: 0.11 ng
 RT: 3.60 min Scan# 91
 Delta R.T. 0.017 min
 Lab File: 03232329.D
 Acq: 23 Mar 2023 23:02

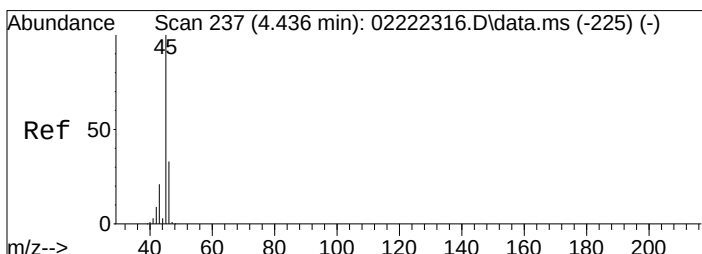
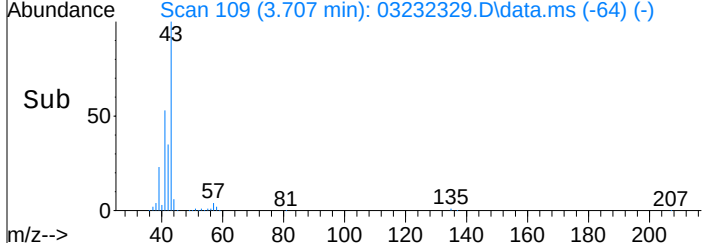
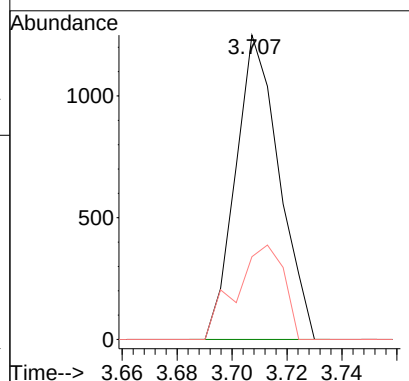
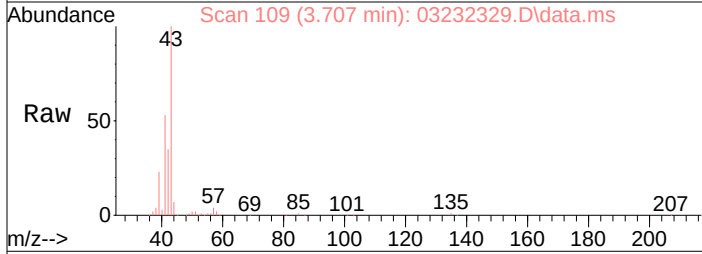
Tgt Ion:	50	Resp:	3610
Ion Ratio	Lower	Upper	
50	100		
52	28.1	13.0	53.0





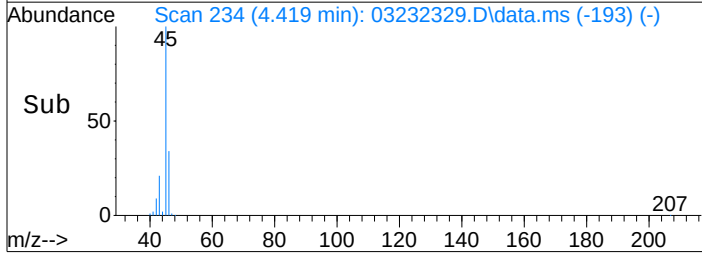
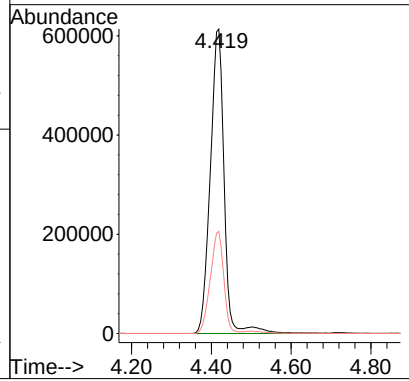
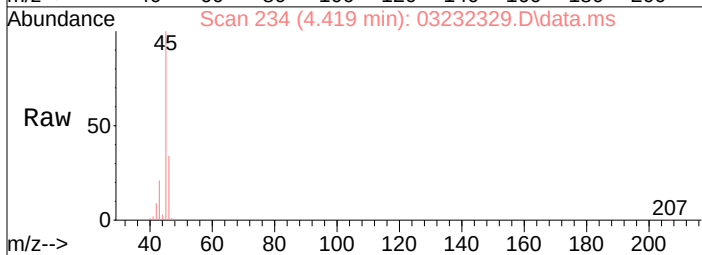
#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.06 ng
 RT: 3.71 min Scan# 109
 Delta R.T. 0.006 min
 Lab File: 03232329.D
 Acq: 23 Mar 2023 23:02

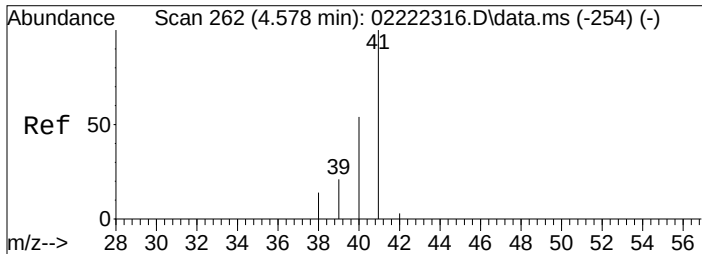
Tgt Ion: 135	Resp: 1378
Ion Ratio	Lower Upper
135	100
137	34.2 12.2 52.2



#10
 Ethanol
 Concen: 86.54 ng
 RT: 4.42 min Scan# 234
 Delta R.T. -0.017 min
 Lab File: 03232329.D
 Acq: 23 Mar 2023 23:02

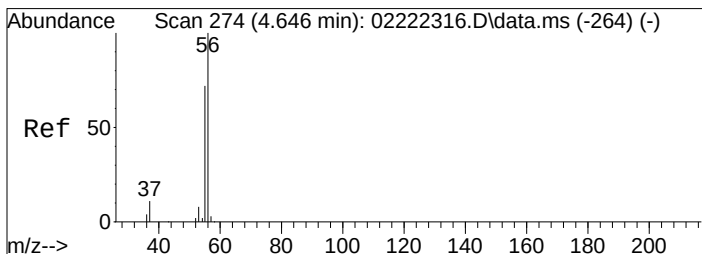
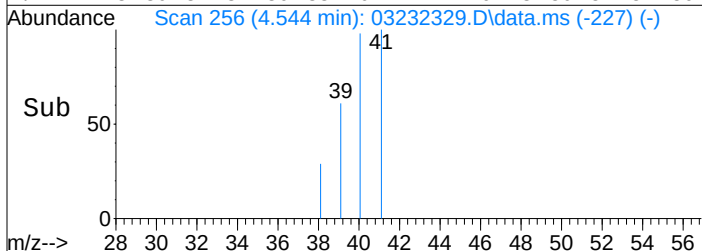
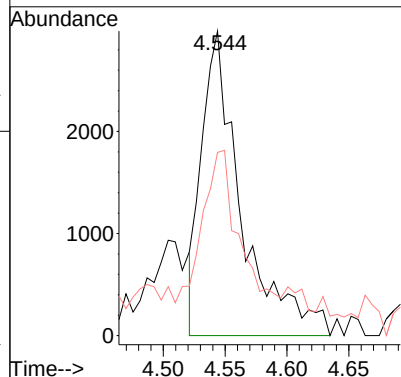
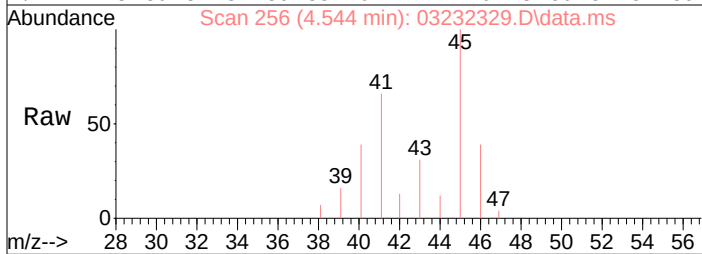
Tgt Ion: 45	Resp: 1477221
Ion Ratio	Lower Upper
45	100
46	33.6 13.8 53.8





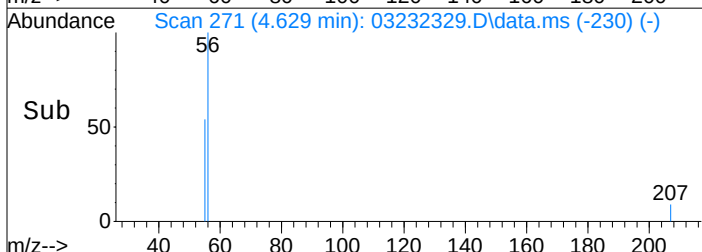
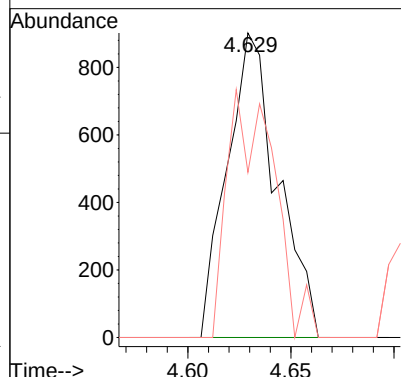
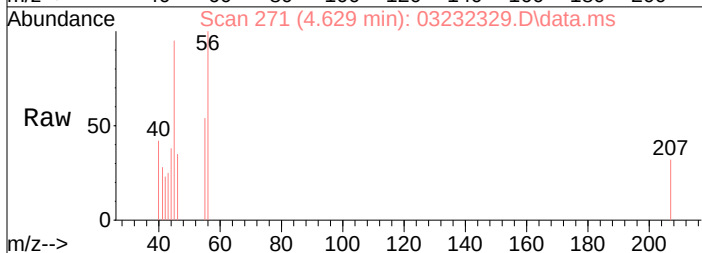
#11
Acetonitrile
Concen: 0.15 ng
RT: 4.54 min Scan# 256
Delta R.T. -0.034 min
Lab File: 03232329.D
Acq: 23 Mar 2023 23:02

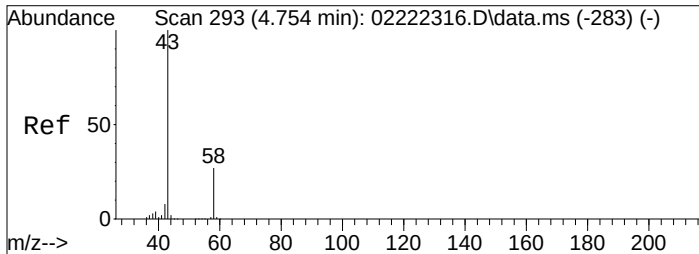
Tgt Ion: 41 Resp: 6676
Ion Ratio Lower Upper
41 100
40 83.5 34.4 74.4#



#12
Acrolein
Concen: 0.11 ng
RT: 4.63 min Scan# 271
Delta R.T. -0.017 min
Lab File: 03232329.D
Acq: 23 Mar 2023 23:02

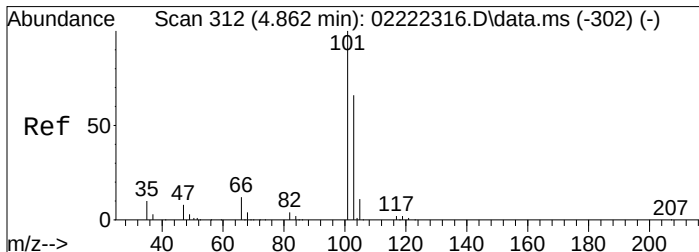
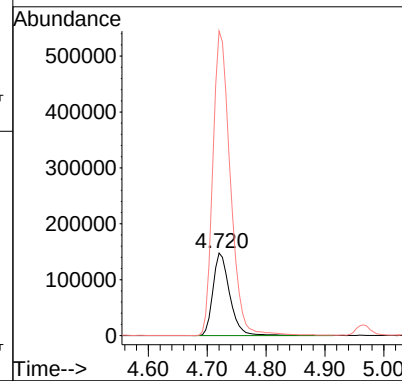
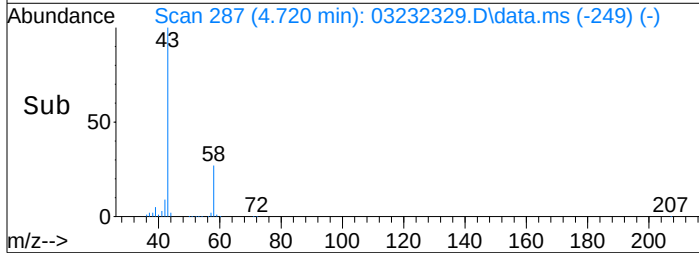
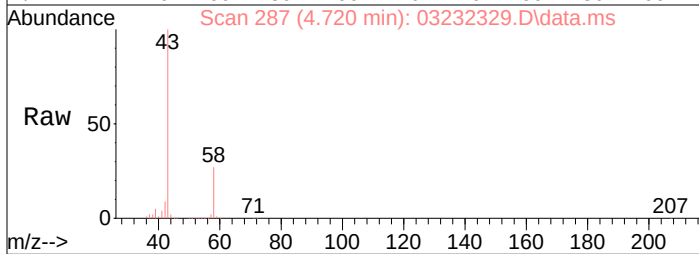
Tgt Ion: 56 Resp: 1536
Ion Ratio Lower Upper
56 100
55 75.8 50.9 90.9





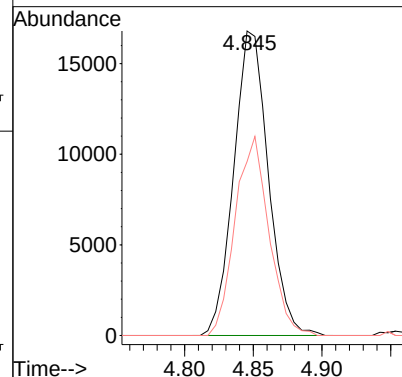
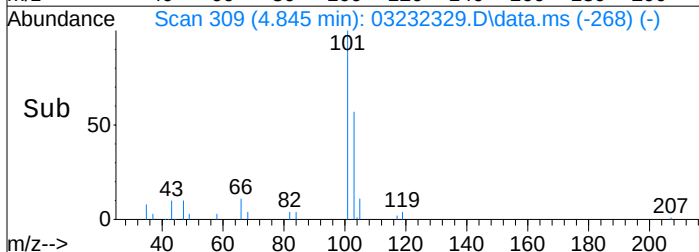
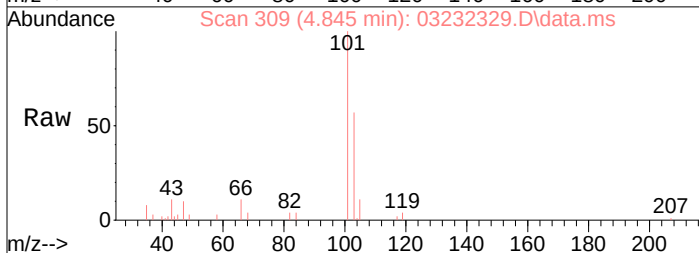
#13
Acetone
Concen: 20.09 ng
RT: 4.72 min Scan# 287
Delta R.T. -0.034 min
Lab File: 03232329.D
Acq: 23 Mar 2023 23:02

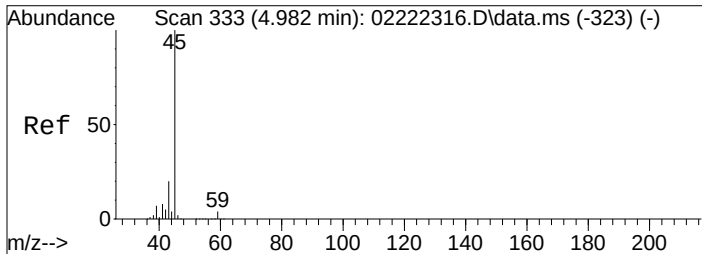
Tgt Ion: 58 Resp: 292624
Ion Ratio Lower Upper
58 100
43 385.6 337.8 397.8



#14
Trichlorofluoromethane
Concen: 0.74 ng
RT: 4.85 min Scan# 309
Delta R.T. -0.017 min
Lab File: 03232329.D
Acq: 23 Mar 2023 23:02

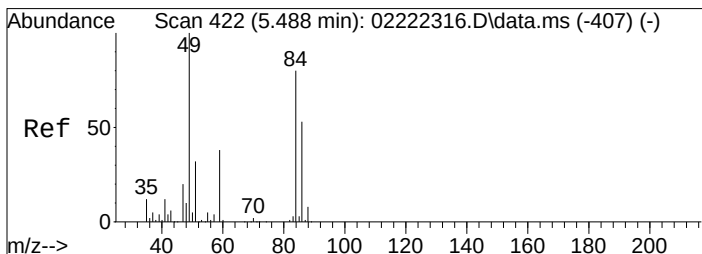
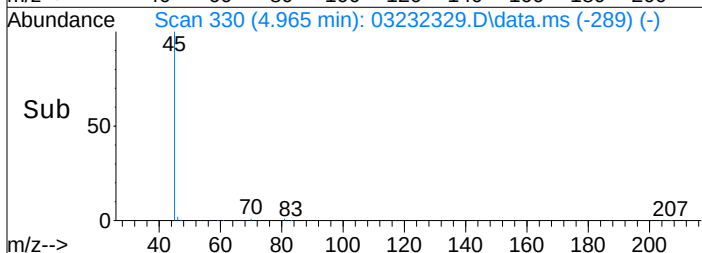
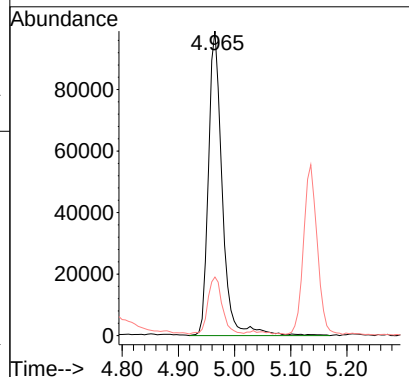
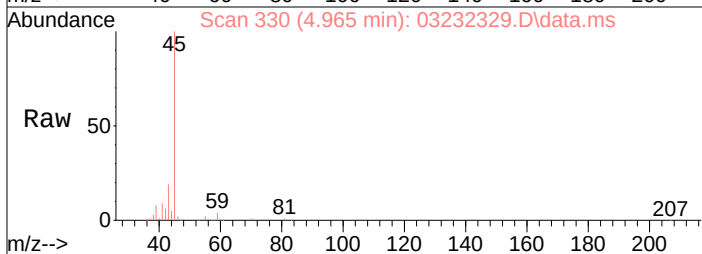
Tgt Ion: 101 Resp: 29462
Ion Ratio Lower Upper
101 100
103 63.7 45.2 85.2





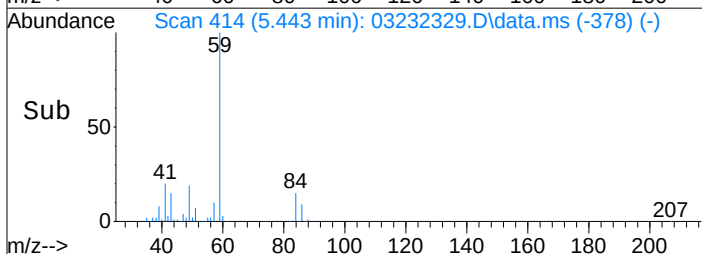
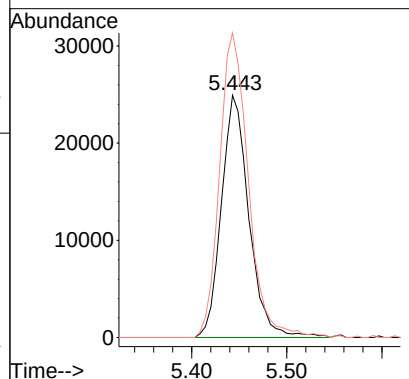
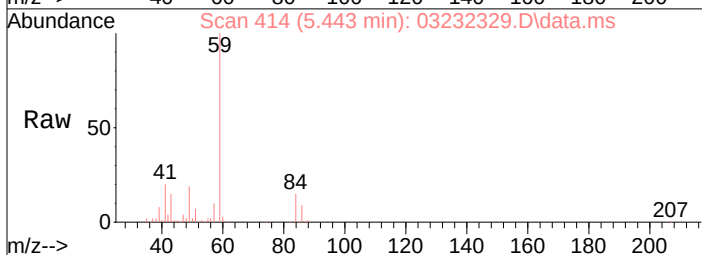
#15
 2-Propanol (Isopropanol)
 Concen: 2.89 ng
 RT: 4.96 min Scan# 330
 Delta R.T. -0.017 min
 Lab File: 03232329.D
 Acq: 23 Mar 2023 23:02

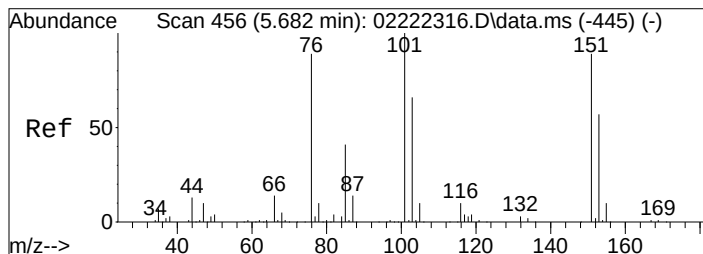
Tgt Ion	45	Resp	169753
Ion Ratio	100	Lower	Upper
43	21.0	0.0	39.7



#19
 Methylene Chloride
 Concen: 2.35 ng
 RT: 5.44 min Scan# 414
 Delta R.T. -0.045 min
 Lab File: 03232329.D
 Acq: 23 Mar 2023 23:02

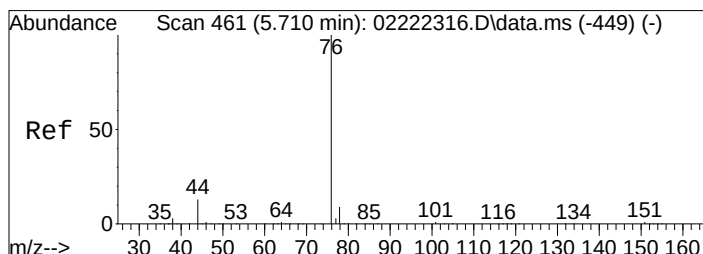
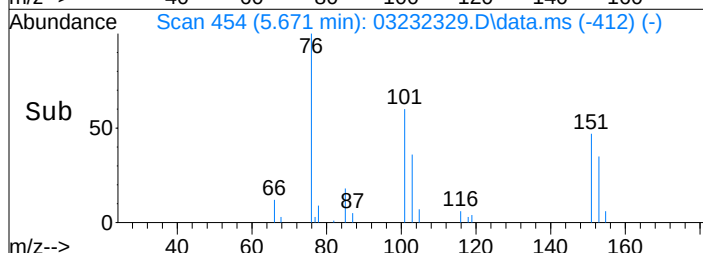
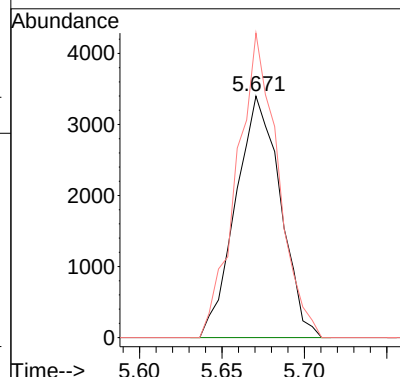
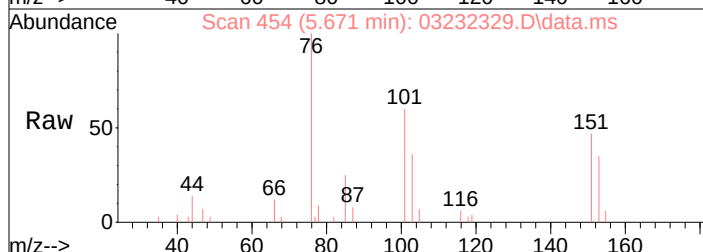
Tgt Ion	84	Resp	50144
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
49	131.3	101.3	151.3





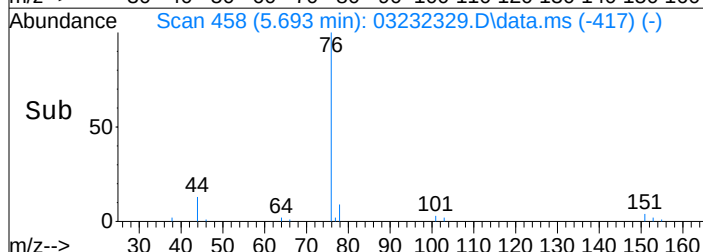
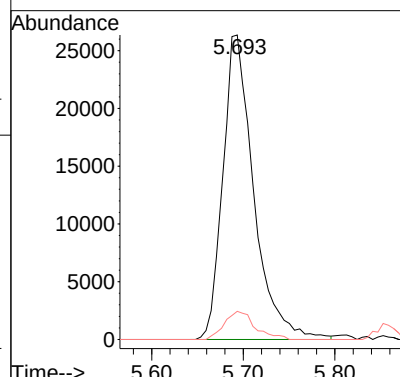
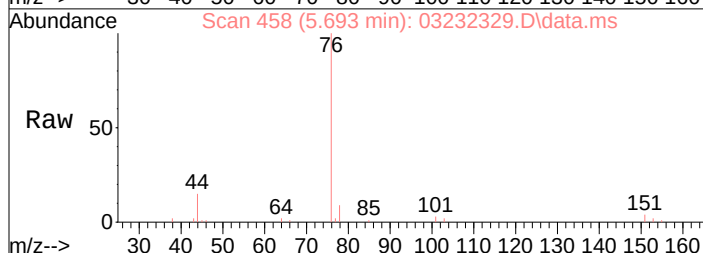
#21
 Trichlorotrifluoroethane
 Concen: 0.31 ng
 RT: 5.67 min Scan# 454
 Delta R.T. -0.011 min
 Lab File: 03232329.D
 Acq: 23 Mar 2023 23:02

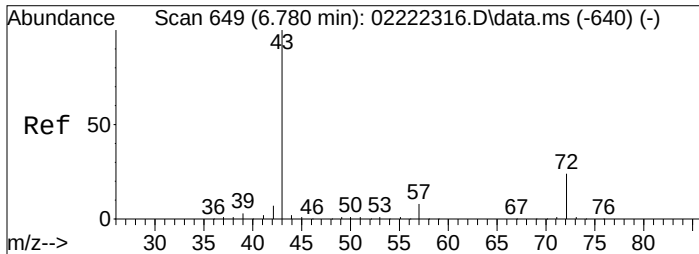
Tgt Ion: 151 Resp: 6420
 Ion Ratio Lower Upper
 151 100
 101 116.8 96.3 136.3



#22
 Carbon Disulfide
 Concen: 0.73 ng
 RT: 5.69 min Scan# 458
 Delta R.T. -0.017 min
 Lab File: 03232329.D
 Acq: 23 Mar 2023 23:02

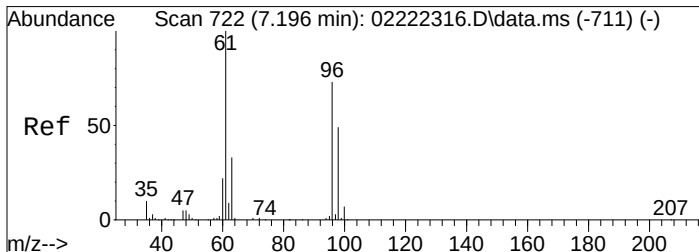
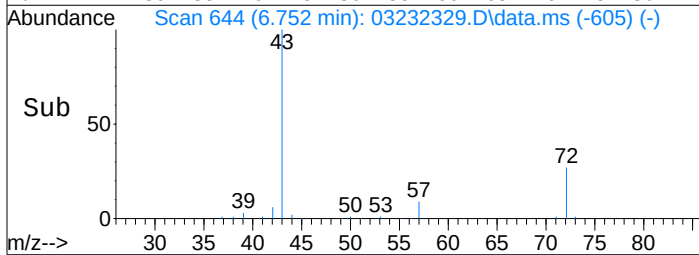
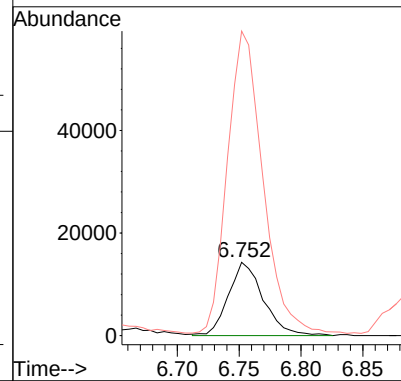
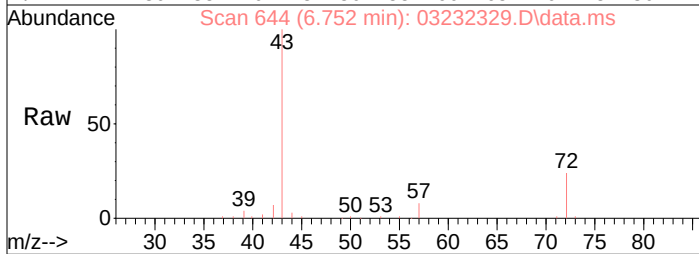
Tgt Ion: 76 Resp: 61777
 Ion Ratio Lower Upper
 76 100
 78 9.2 0.0 29.3





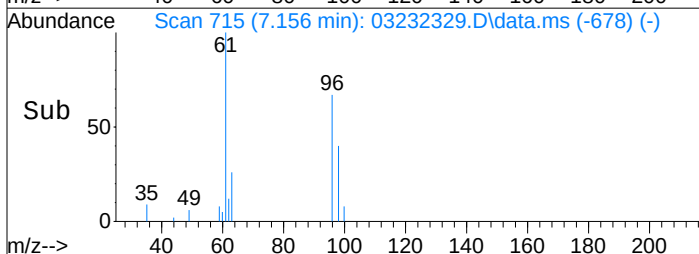
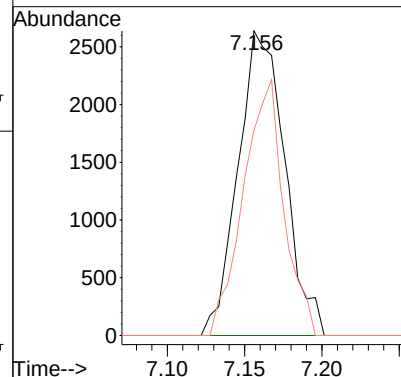
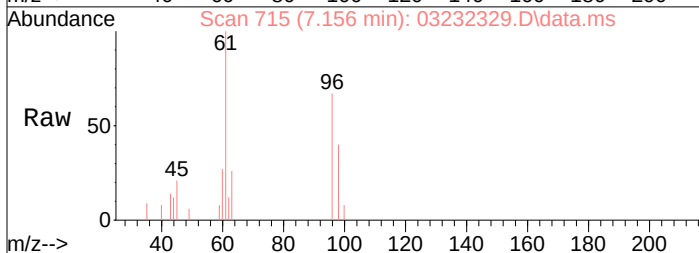
#27
2-Butanone (MEK)
Concen: 2.17 ng
RT: 6.75 min Scan# 644
Delta R.T. -0.028 min
Lab File: 03232329.D
Acq: 23 Mar 2023 23:02

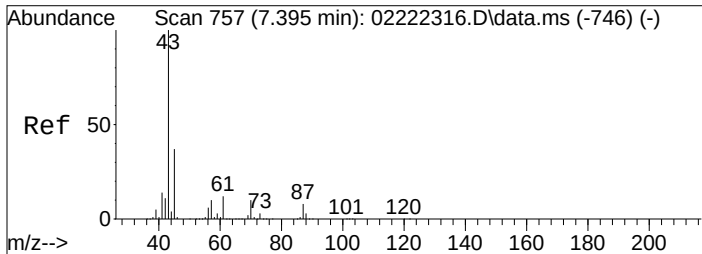
Tgt Ion: 72 Resp: 28124
Ion Ratio Lower Upper
72 100
43 416.9 400.5 440.5



#28
cis-1,2-Dichloroethene
Concen: 0.18 ng
RT: 7.16 min Scan# 715
Delta R.T. -0.040 min
Lab File: 03232329.D
Acq: 23 Mar 2023 23:02

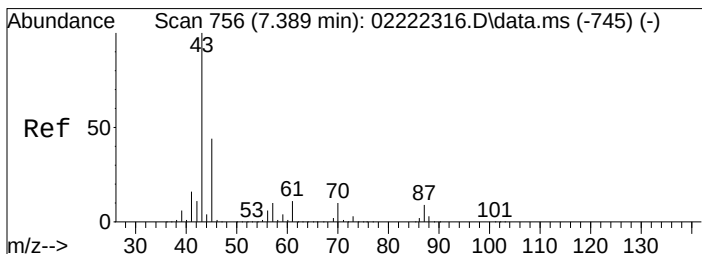
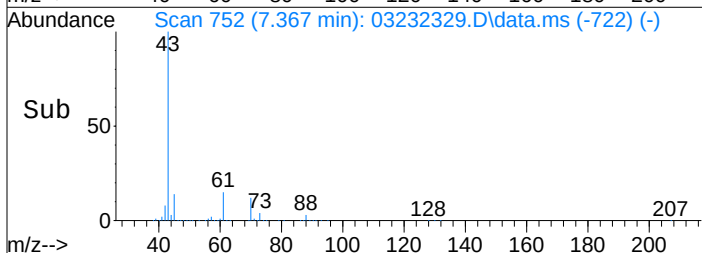
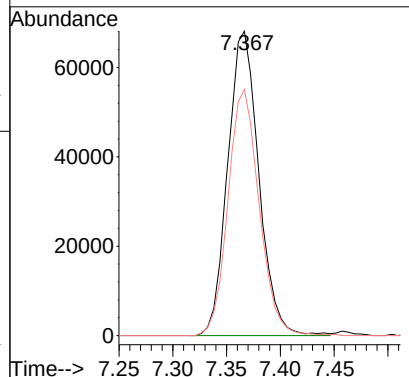
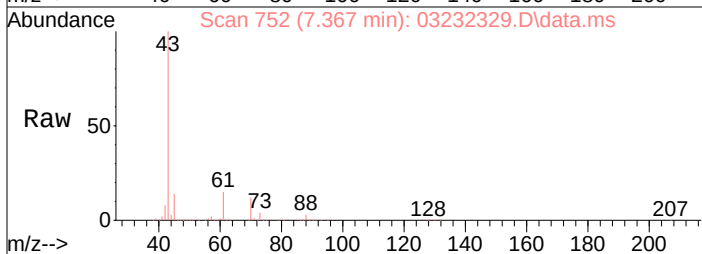
Tgt Ion: 61 Resp: 5552
Ion Ratio Lower Upper
61 100
96 72.6 54.5 94.5





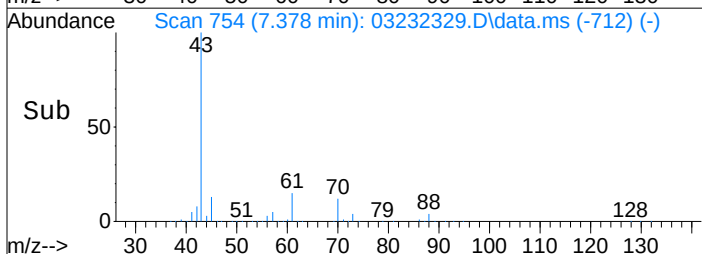
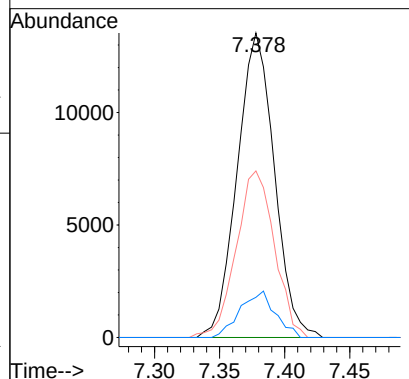
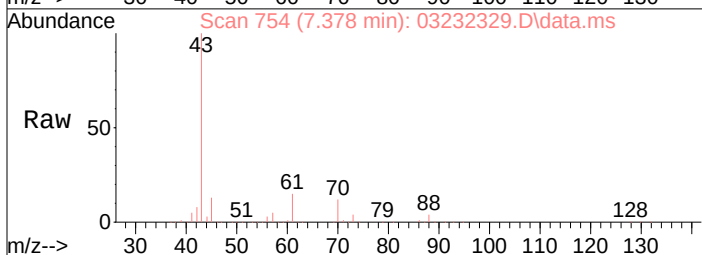
#30
Ethyl Acetate
Concen: 16.13 ng
RT: 7.37 min Scan# 752
Delta R.T. -0.028 min
Lab File: 03232329.D
Acq: 23 Mar 2023 23:02

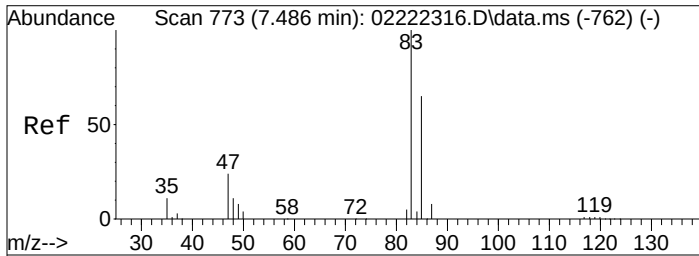
Tgt Ion: 61 Resp: 137136
Ion Ratio Lower Upper
61 100
70 81.1 65.6 105.6



#31
n-Hexane
Concen: 0.82 ng
RT: 7.38 min Scan# 754
Delta R.T. -0.011 min
Lab File: 03232329.D
Acq: 23 Mar 2023 23:02

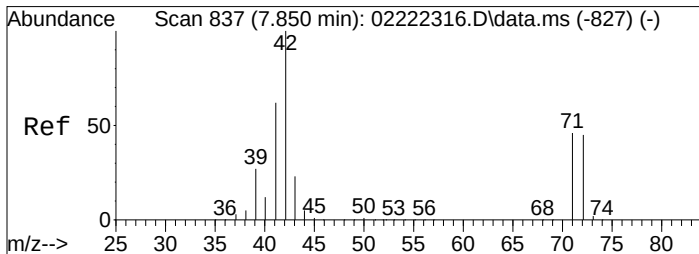
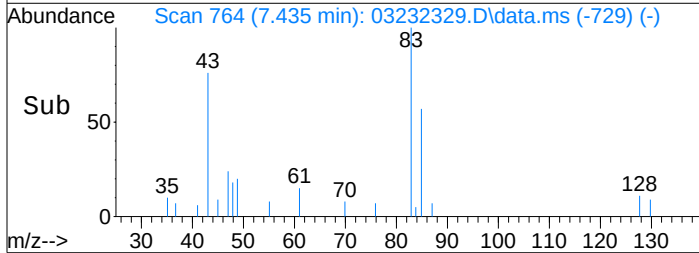
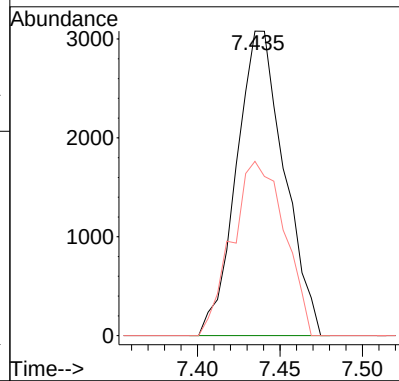
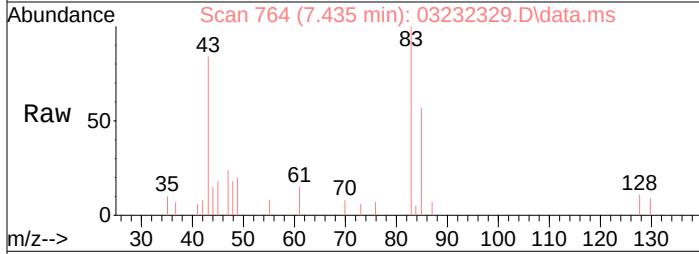
Tgt Ion: 57 Resp: 26866
Ion Ratio Lower Upper
57 100
56 56.2 44.0 66.0
86 14.4 11.5 17.3





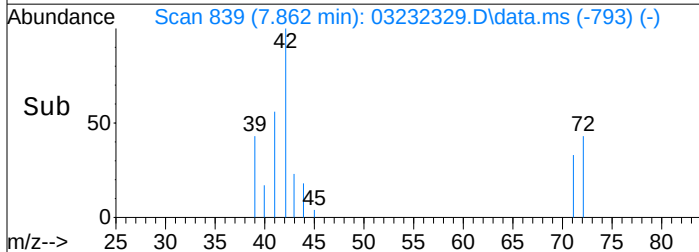
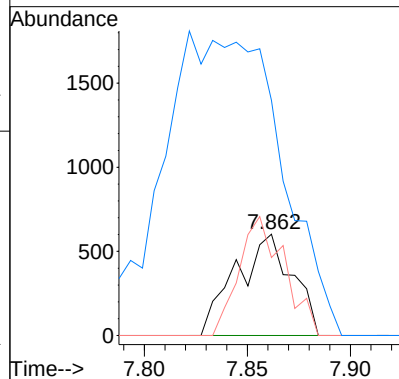
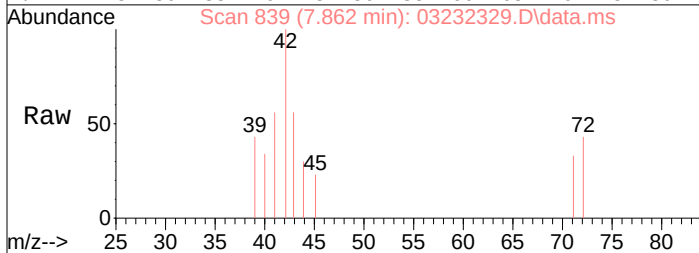
#32
Chloroform
Concen: 0.16 ng
RT: 7.43 min Scan# 764
Delta R.T. -0.051 min
Lab File: 03232329.D
Acq: 23 Mar 2023 23:02

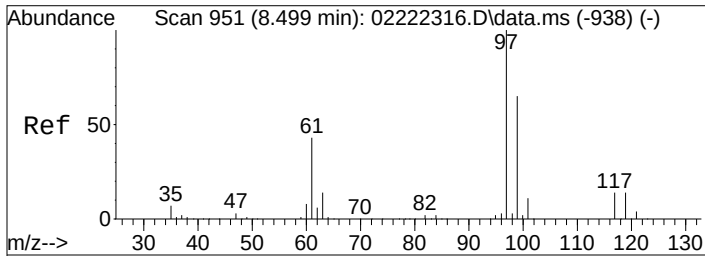
Tgt Ion: 83 Resp: 6212
Ion Ratio Lower Upper
83 100
85 62.7 45.0 85.0



#34
Tetrahydrofuran (THF)
Concen: 0.09 ng
RT: 7.86 min Scan# 839
Delta R.T. 0.011 min
Lab File: 03232329.D
Acq: 23 Mar 2023 23:02

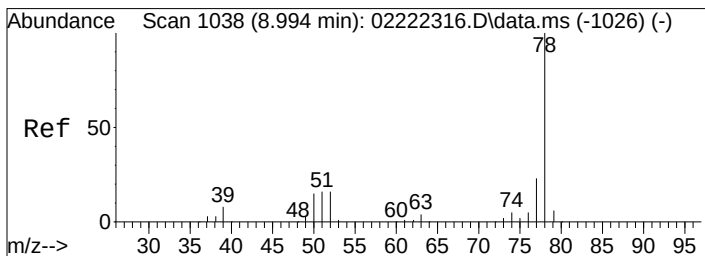
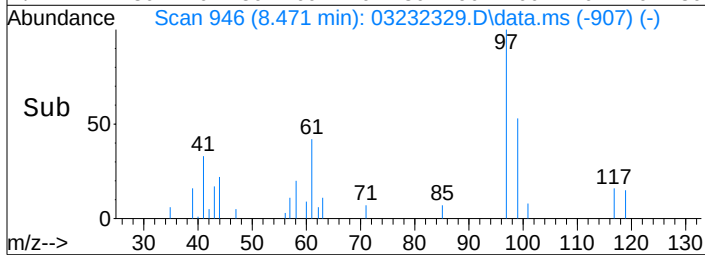
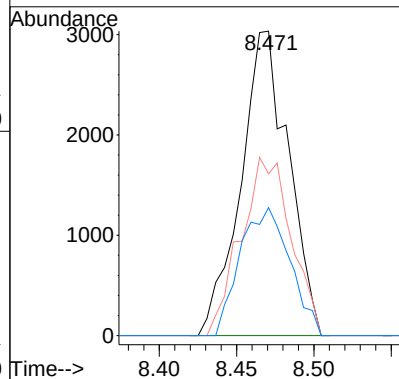
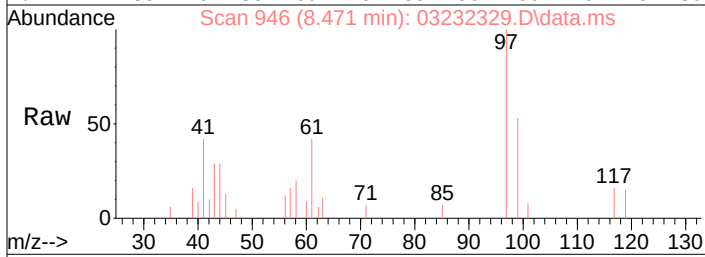
Tgt Ion: 72 Resp: 1152
Ion Ratio Lower Upper
72 100
71 93.8 79.8 119.8
42 633.2 199.0 239.0#





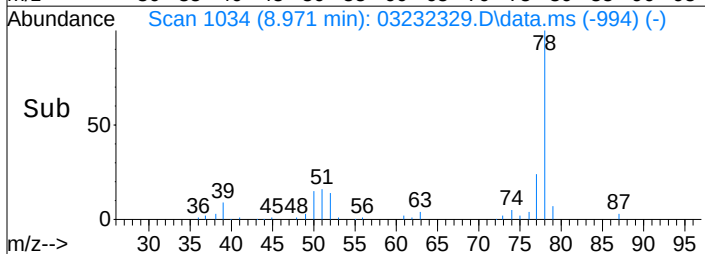
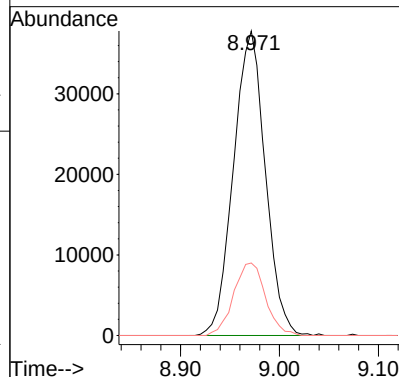
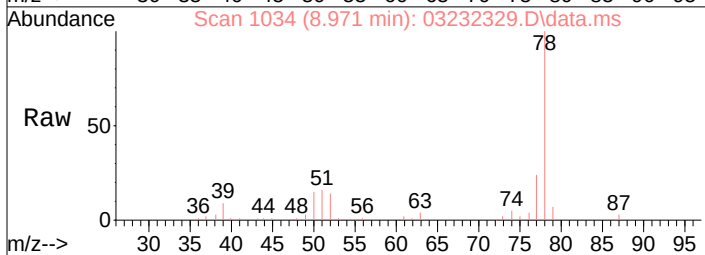
#38
 1,1,1-Trichloroethane
 Concen: 0.19 ng
 RT: 8.47 min Scan# 946
 Delta R.T. -0.028 min
 Lab File: 03232329.D
 Acq: 23 Mar 2023 23:02

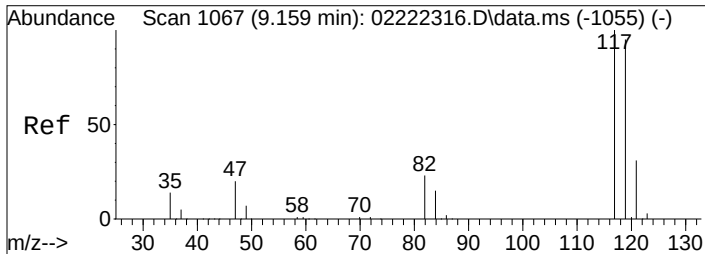
Tgt Ion:	97	Resp:	6541
Ion Ratio		Lower	Upper
97	100		
99	61.7	44.9	84.9
61	43.8	23.5	63.5



#41
 Benzene
 Concen: 1.02 ng
 RT: 8.97 min Scan# 1034
 Delta R.T. -0.023 min
 Lab File: 03232329.D
 Acq: 23 Mar 2023 23:02

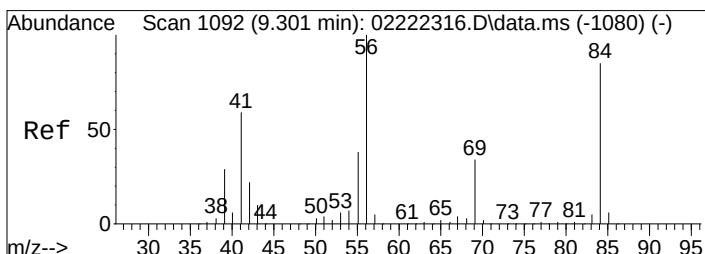
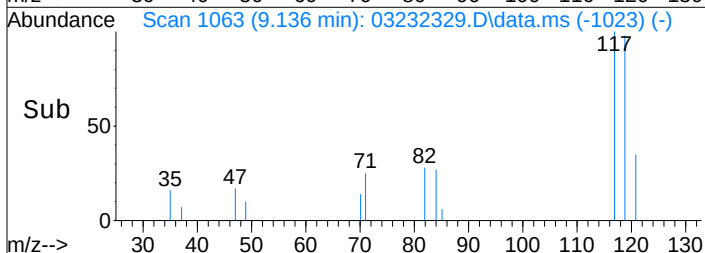
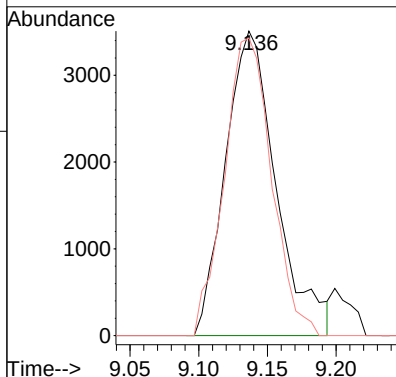
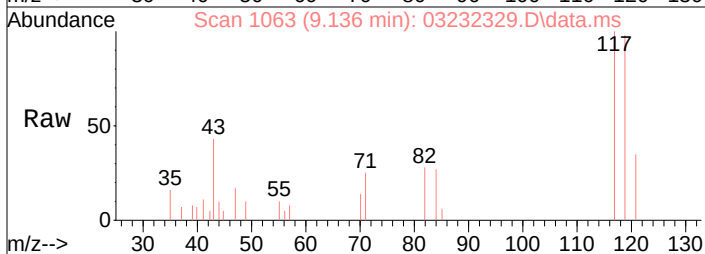
Tgt Ion:	78	Resp:	84488
Ion Ratio		Lower	Upper
78	100		
77	23.8	3.7	43.7





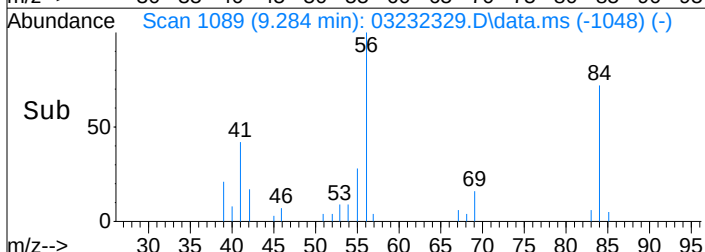
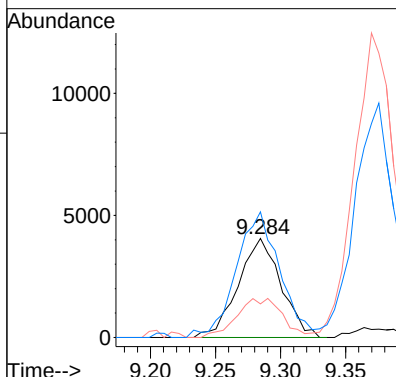
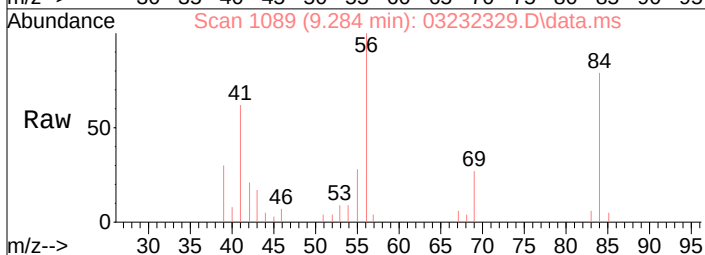
#42
Carbon Tetrachloride
Concen: 0.29 ng
RT: 9.14 min Scan# 1063
Delta R.T. -0.023 min
Lab File: 03232329.D
Acq: 23 Mar 2023 23:02

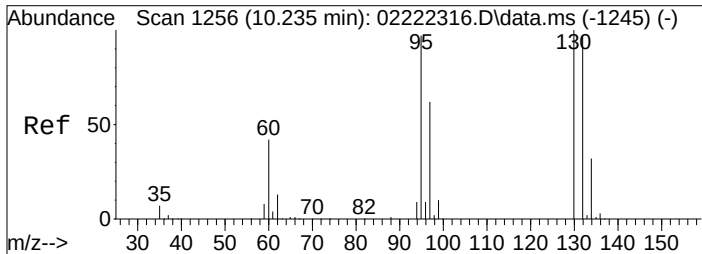
Tgt Ion: 117 Resp: 9009
Ion Ratio Lower Upper
117 100
119 91.0 75.7 115.7



#43
Cyclohexane
Concen: 0.31 ng
RT: 9.28 min Scan# 1089
Delta R.T. -0.017 min
Lab File: 03232329.D
Acq: 23 Mar 2023 23:02

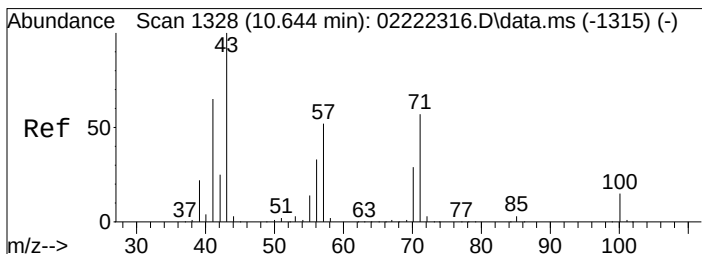
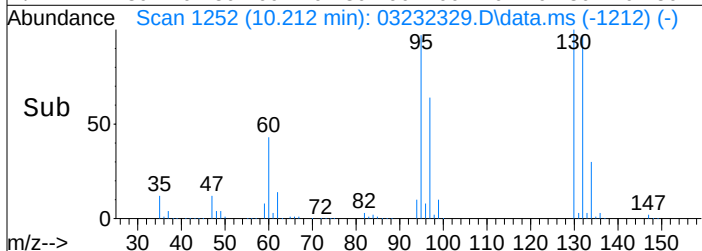
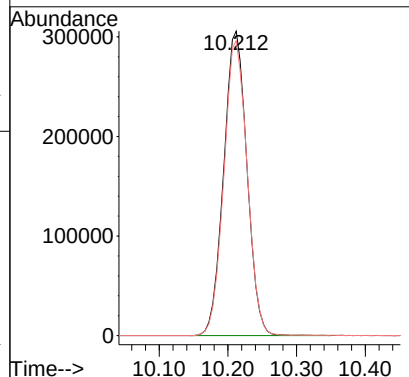
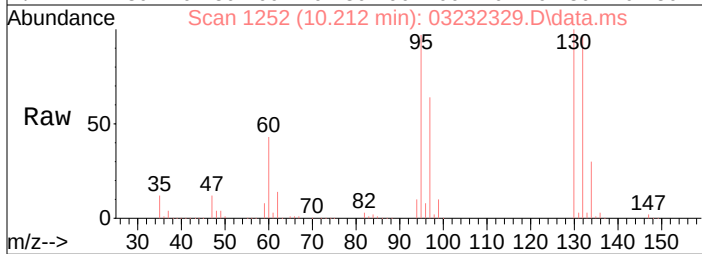
Tgt Ion: 84 Resp: 9300
Ion Ratio Lower Upper
84 100
69 41.4 20.0 60.0
56 128.1 98.5 138.5





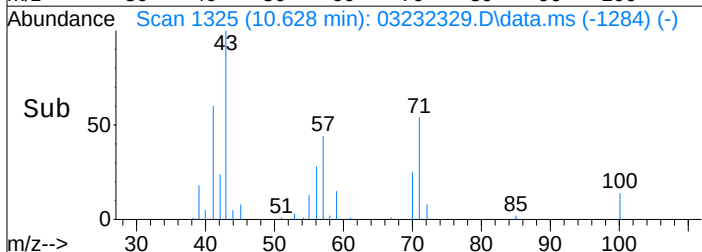
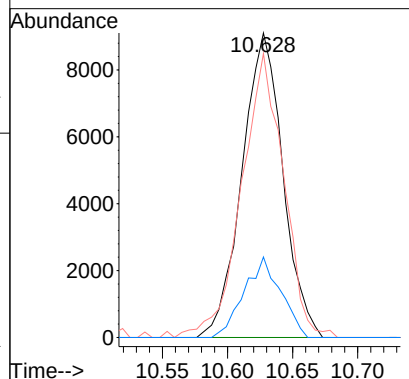
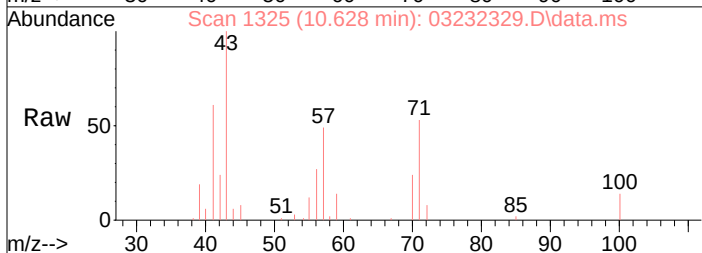
#47
 Trichloroethene
 Concen: 29.60 ng
 RT: 10.21 min Scan# 1252
 Delta R.T. -0.023 min
 Lab File: 03232329.D
 Acq: 23 Mar 2023 23:02

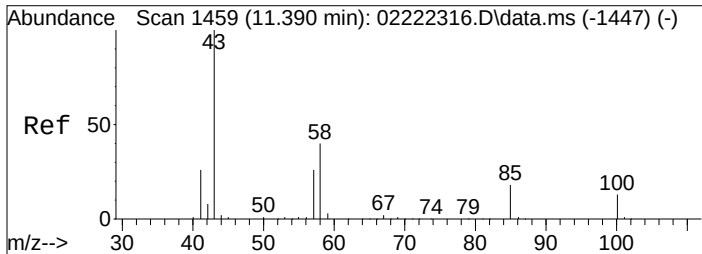
Tgt Ion:	130	Resp:	719958
Ion Ratio	Lower	Upper	
130	100		
132	97.3	76.3	116.3



#51
 n-Heptane
 Concen: 0.99 ng
 RT: 10.63 min Scan# 1325
 Delta R.T. -0.017 min
 Lab File: 03232329.D
 Acq: 23 Mar 2023 23:02

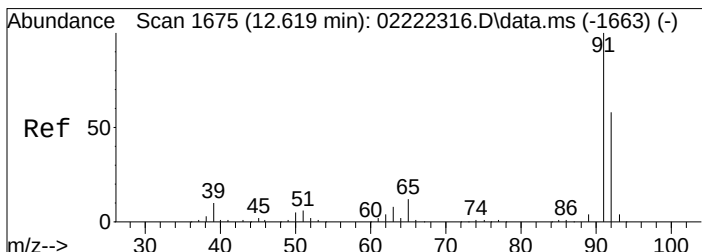
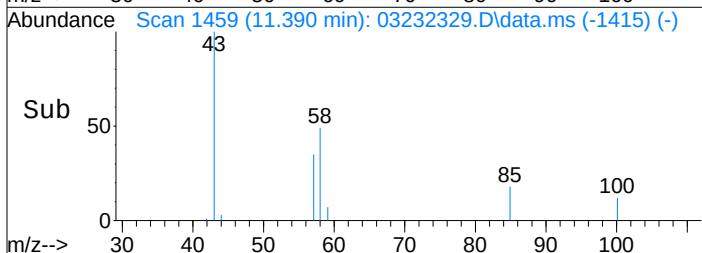
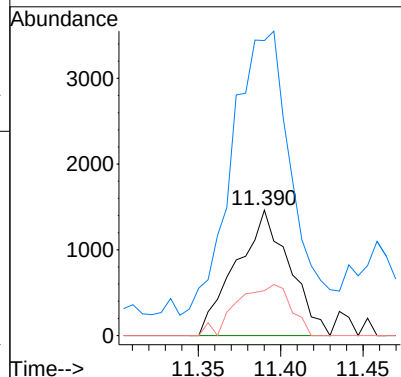
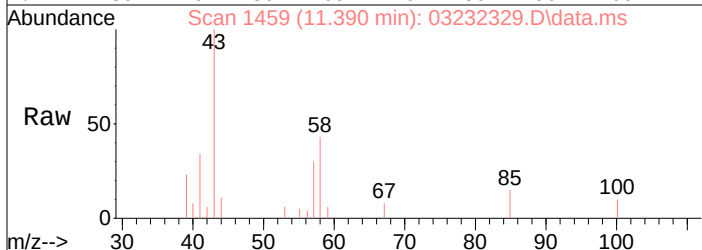
Tgt Ion:	71	Resp:	19887
Ion Ratio	Lower	Upper	
71	100		
57	96.1	71.7	111.7
100	23.7	5.8	45.8





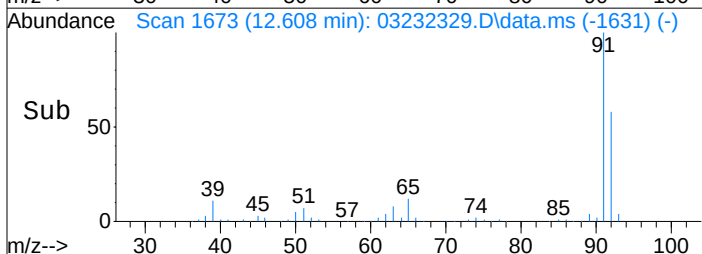
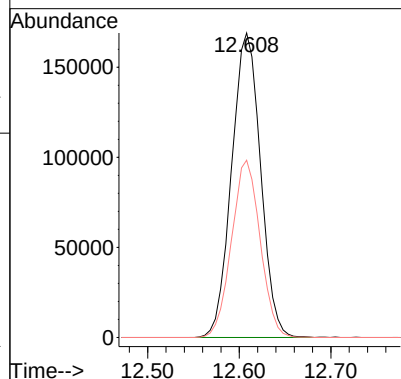
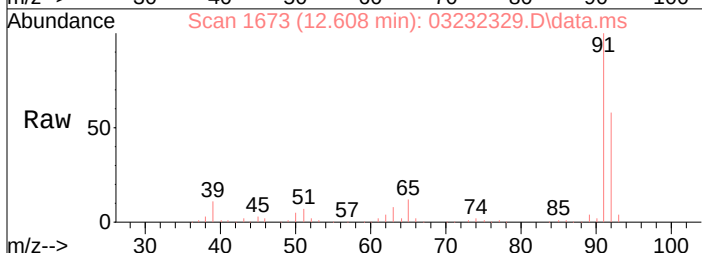
#53
 4-Methyl-2-pentanone
 Concen: 0.18 ng
 RT: 11.39 min Scan# 1459
 Delta R.T. 0.000 min
 Lab File: 03232329.D
 Acq: 23 Mar 2023 23:02

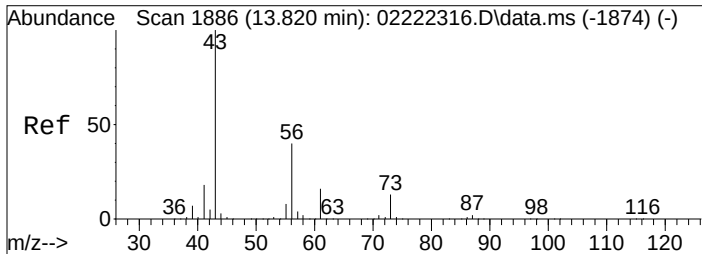
Tgt Ion:	58	Resp:	3284
Ion Ratio	Lower	Upper	
58	100		
85	41.0	38.6	58.0
43	293.5	202.2	303.2



#58
 Toluene
 Concen: 3.85 ng
 RT: 12.61 min Scan# 1673
 Delta R.T. -0.011 min
 Lab File: 03232329.D
 Acq: 23 Mar 2023 23:02

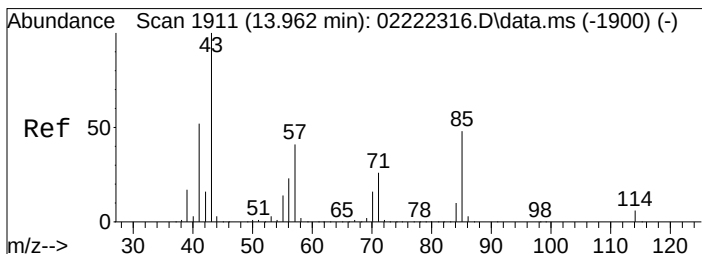
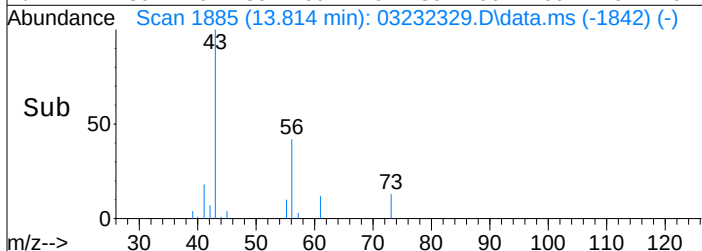
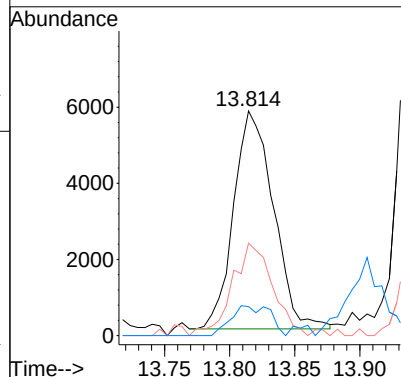
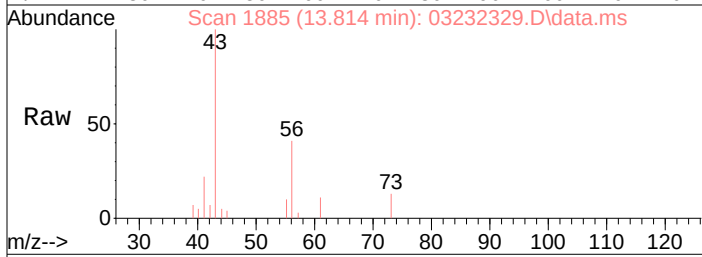
Tgt Ion:	91	Resp:	371167
Ion Ratio	Lower	Upper	
91	100		
92	57.6	38.0	78.0





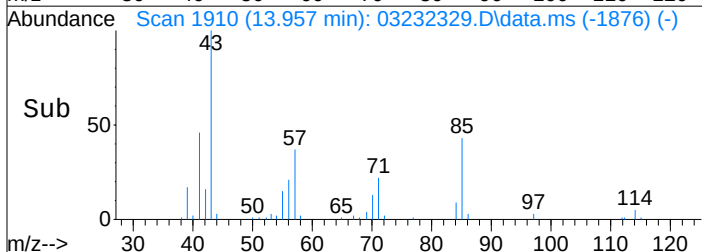
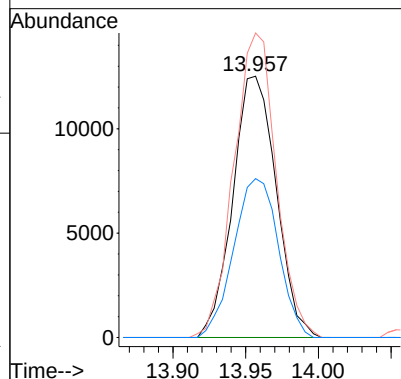
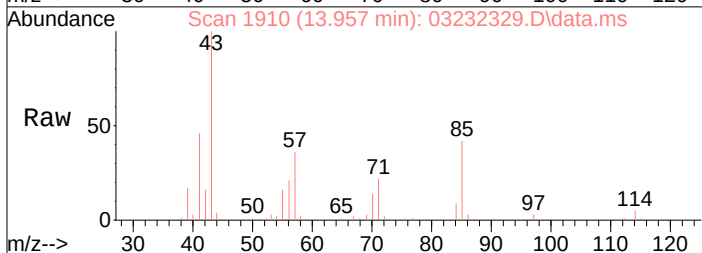
#62
 n-Butyl Acetate
 Concen: 0.23 ng
 RT: 13.81 min Scan# 1885
 Delta R.T. -0.006 min
 Lab File: 03232329.D
 Acq: 23 Mar 2023 23:02

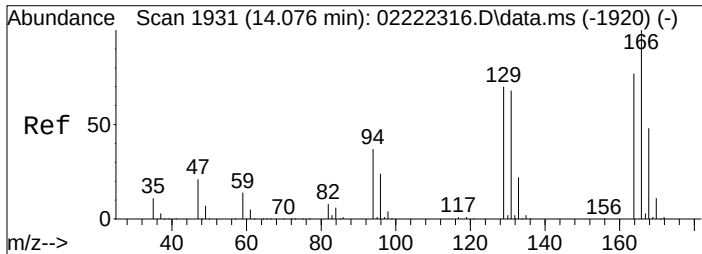
Tgt Ion:	43	Resp:	12240
Ion Ratio		Lower	Upper
43	100		
56	42.6	20.0	60.0
73	13.4	0.0	33.2



#63
 n-Octane
 Concen: 1.37 ng
 RT: 13.96 min Scan# 1910
 Delta R.T. -0.006 min
 Lab File: 03232329.D
 Acq: 23 Mar 2023 23:02

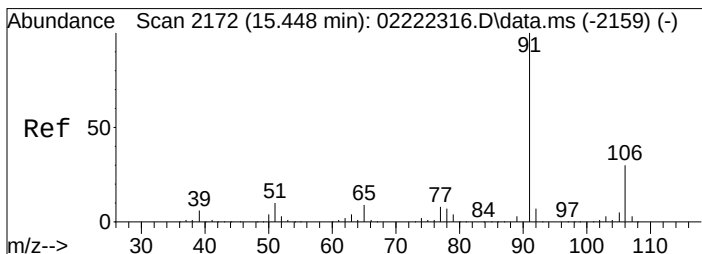
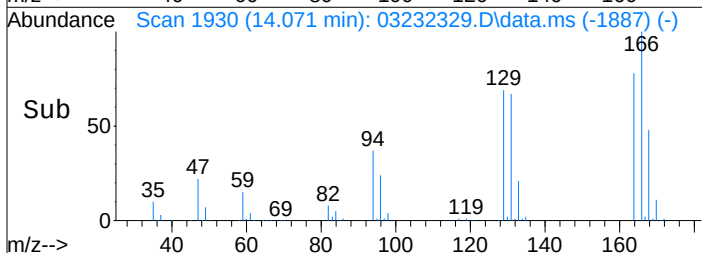
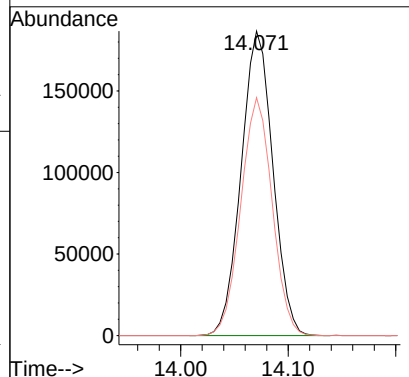
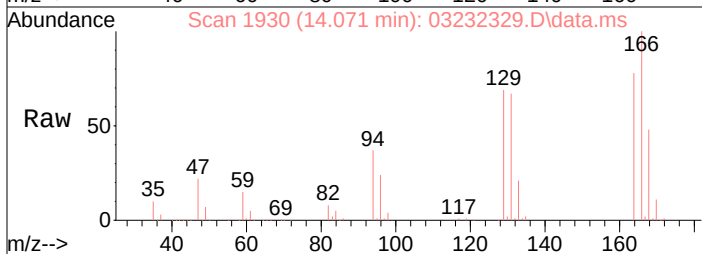
Tgt Ion:	57	Resp:	25995
Ion Ratio		Lower	Upper
57	100		
85	113.8	94.1	141.1
71	62.5	52.6	79.0





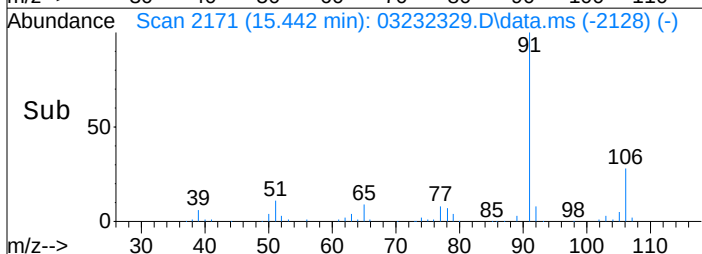
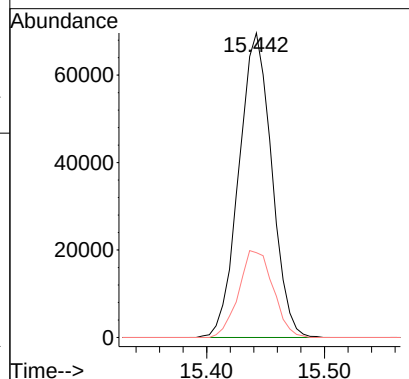
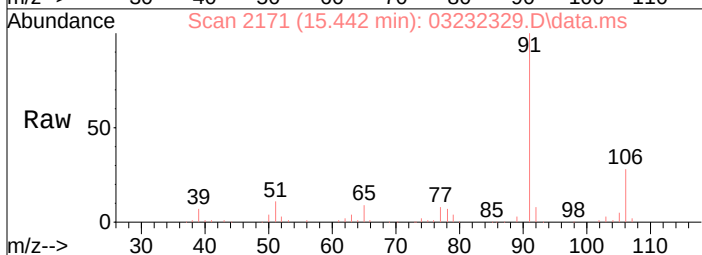
#64
 Tetrachloroethene
 Concen: 13.05 ng
 RT: 14.07 min Scan# 1930
 Delta R.T. -0.006 min
 Lab File: 03232329.D
 Acq: 23 Mar 2023 23:02

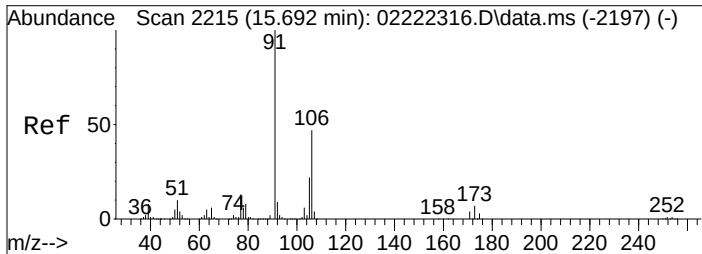
Tgt Ion	Ratio	Lower	Upper
166	100		
164	77.3	57.3	97.3



#66
 Ethylbenzene
 Concen: 1.17 ng
 RT: 15.44 min Scan# 2171
 Delta R.T. -0.006 min
 Lab File: 03232329.D
 Acq: 23 Mar 2023 23:02

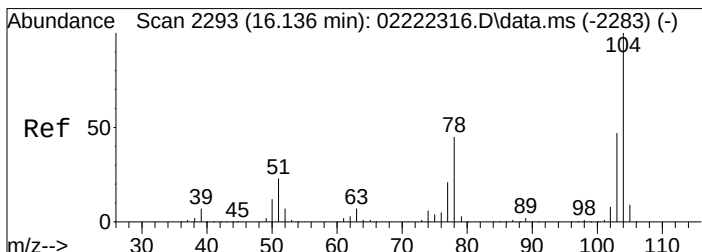
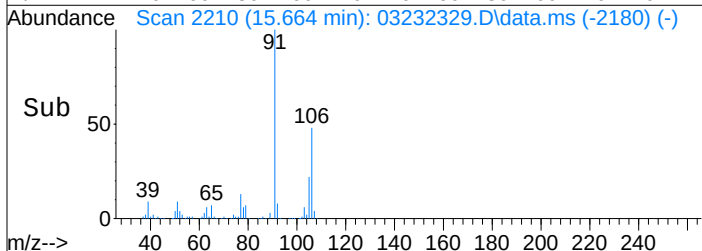
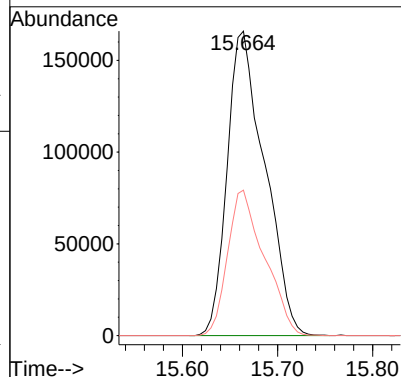
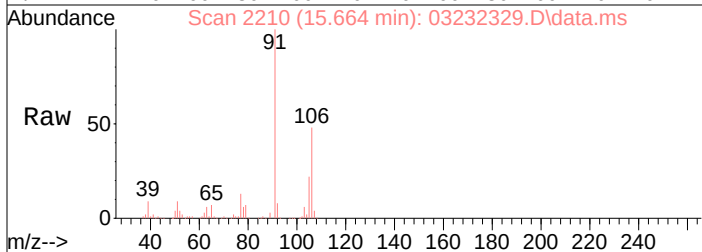
Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.9	10.4	50.4





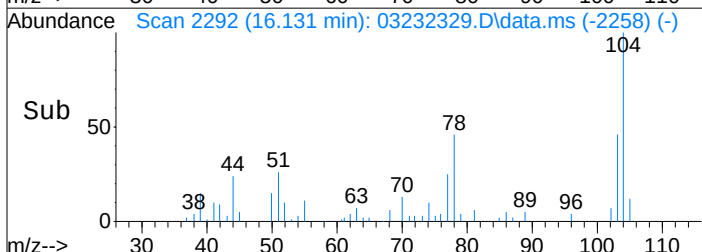
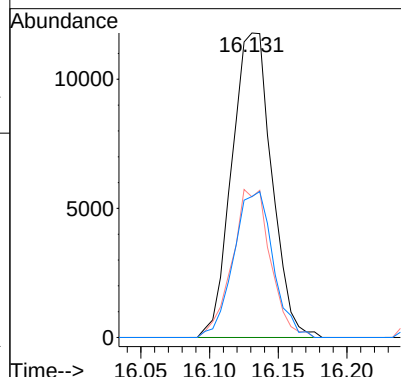
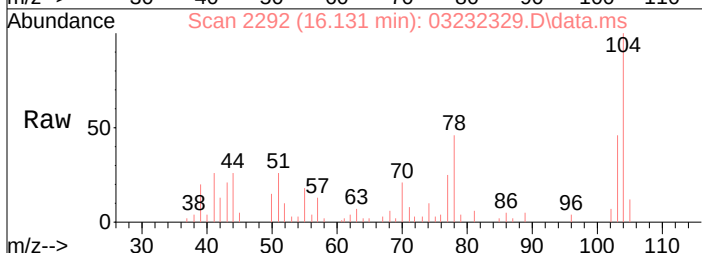
#67
 m- & p-Xylenes
 Concen: 4.91 ng
 RT: 15.66 min Scan# 2210
 Delta R.T. -0.028 min
 Lab File: 03232329.D
 Acq: 23 Mar 2023 23:02

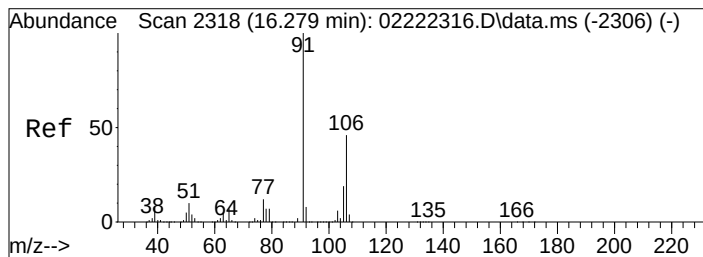
Tgt Ion:	91	Resp:	455042
Ion Ratio	Lower	Upper	
91	100		
106	46.9	26.2	66.2



#69
 Styrene
 Concen: 0.37 ng
 RT: 16.13 min Scan# 2292
 Delta R.T. -0.006 min
 Lab File: 03232329.D
 Acq: 23 Mar 2023 23:02

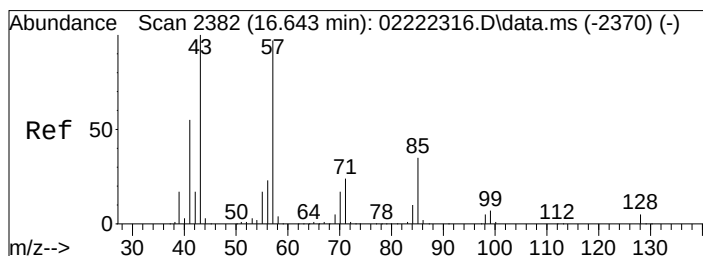
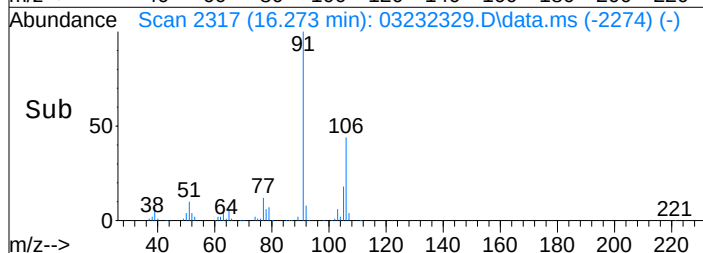
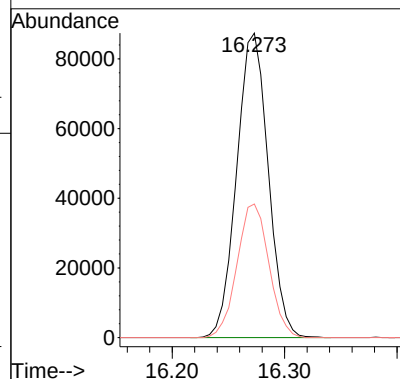
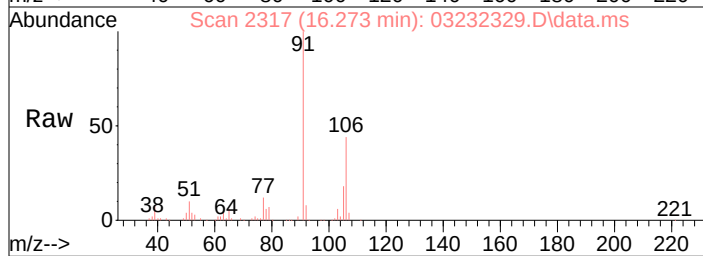
Tgt Ion:	104	Resp:	23859
Ion Ratio	Lower	Upper	
104	100		
78	46.4	24.7	64.7
103	47.3	27.8	67.8





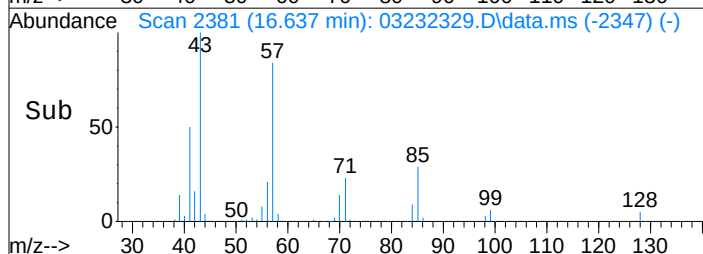
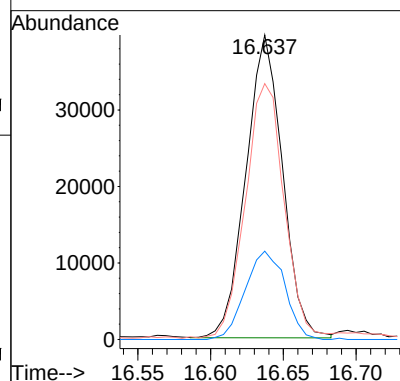
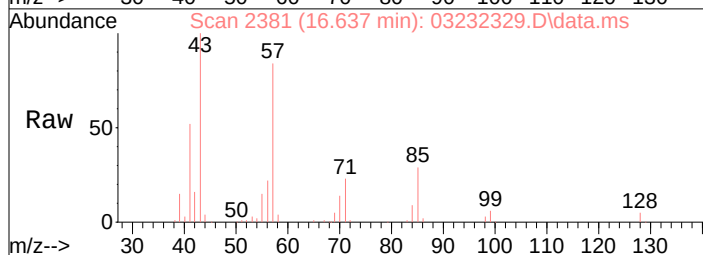
#70
o-Xylene
Concen: 1.92 ng
RT: 16.27 min Scan# 2317
Delta R.T. -0.006 min
Lab File: 03232329.D
Acq: 23 Mar 2023 23:02

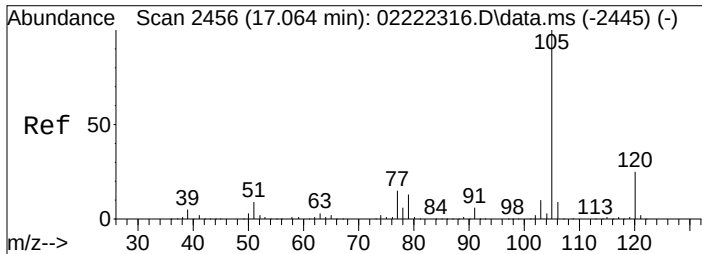
Tgt Ion: 91 Resp: 170370
Ion Ratio Lower Upper
91 100
106 44.4 25.4 65.4



#71
n-Nonane
Concen: 1.62 ng
RT: 16.64 min Scan# 2381
Delta R.T. -0.006 min
Lab File: 03232329.D
Acq: 23 Mar 2023 23:02

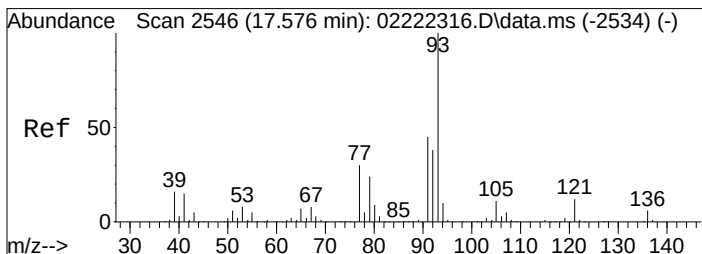
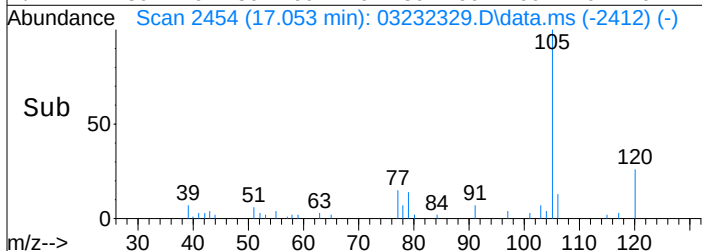
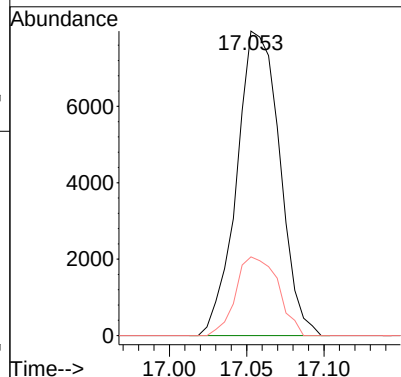
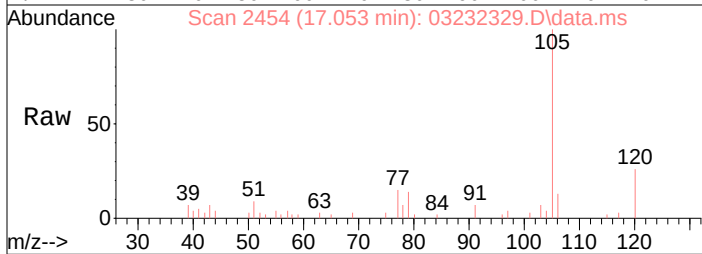
Tgt Ion: 43 Resp: 69289
Ion Ratio Lower Upper
43 100
57 93.8 74.2 114.2
85 31.6 14.2 54.2





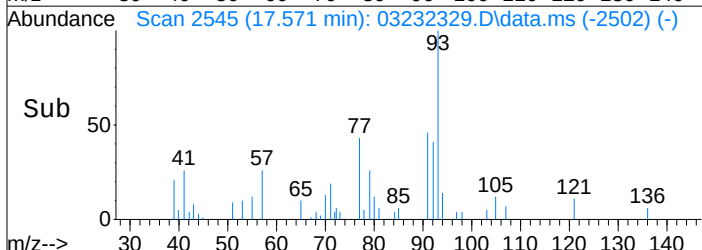
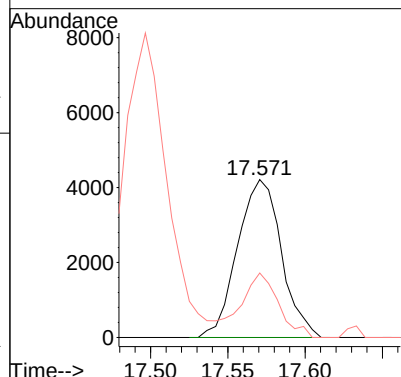
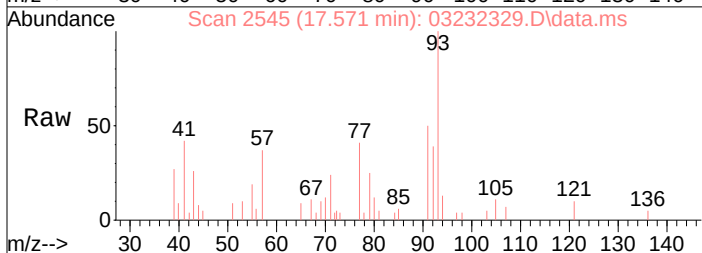
#74
Cumene
Concen: 0.14 ng
RT: 17.05 min Scan# 2454
Delta R.T. -0.011 min
Lab File: 03232329.D
Acq: 23 Mar 2023 23:02

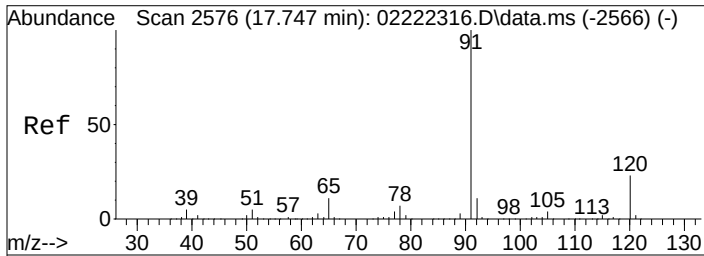
Tgt Ion:	105	Resp:	15447
Ion Ratio	Lower	Upper	
105	100		
120	25.5	5.2	45.2



#75
alpha-Pinene
Concen: 0.17 ng
RT: 17.57 min Scan# 2545
Delta R.T. -0.006 min
Lab File: 03232329.D
Acq: 23 Mar 2023 23:02

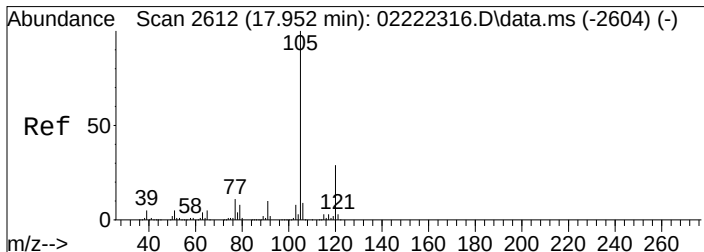
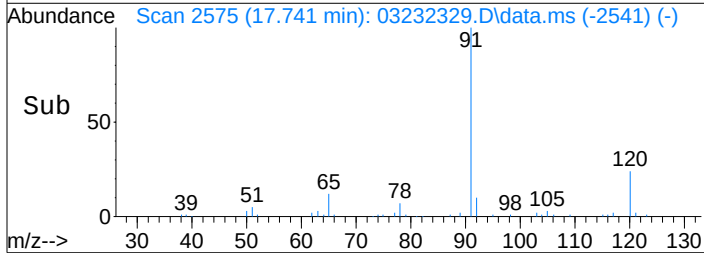
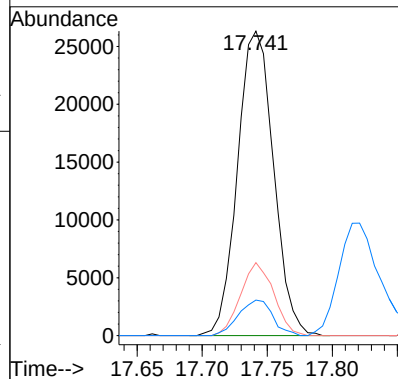
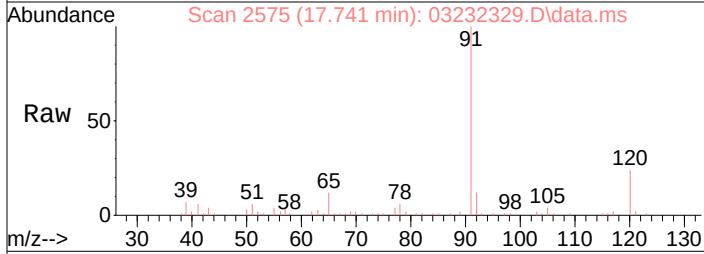
Tgt Ion:	93	Resp:	8312
Ion Ratio	Lower	Upper	
93	100		
77	35.1	11.1	51.1





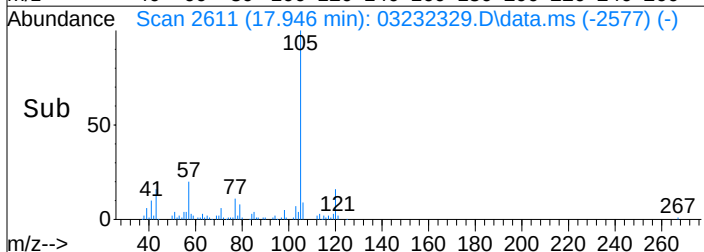
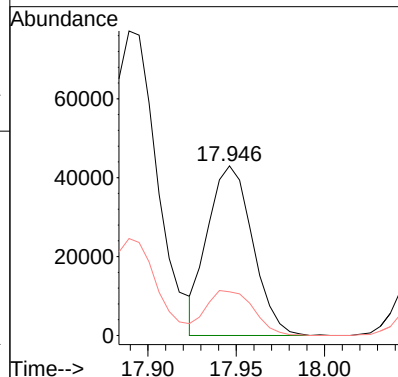
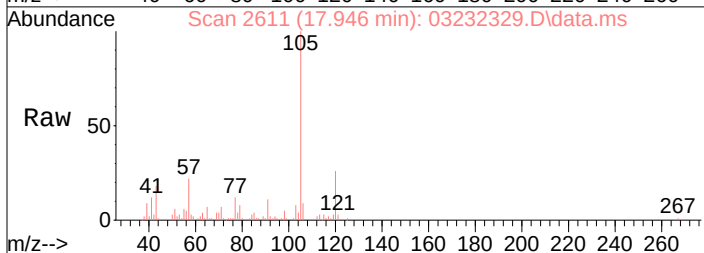
#76
n-Propylbenzene
Concen: 0.39 ng
RT: 17.74 min Scan# 2575
Delta R.T. -0.006 min
Lab File: 03232329.D
Acq: 23 Mar 2023 23:02

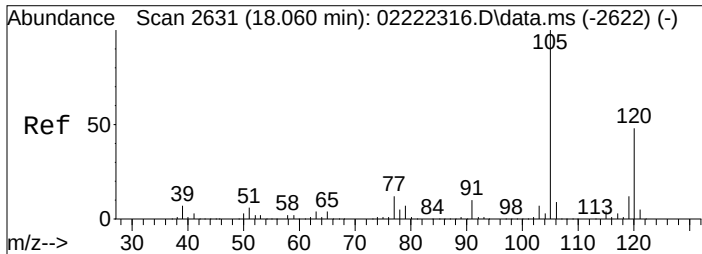
Tgt Ion:	91	Resp:	50687
Ion Ratio		Lower	Upper
91	100		
120	22.0	2.7	42.7
65	11.1	0.0	30.7



#78
4-Ethyltoluene
Concen: 0.73 ng
RT: 17.95 min Scan# 2611
Delta R.T. -0.006 min
Lab File: 03232329.D
Acq: 23 Mar 2023 23:02

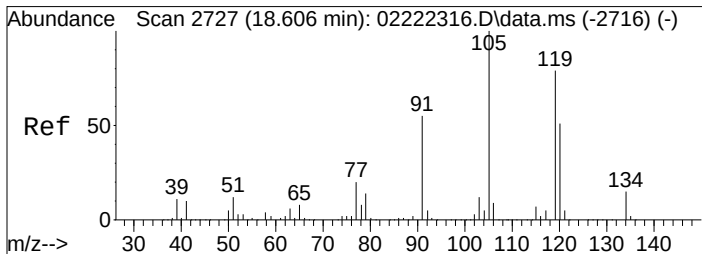
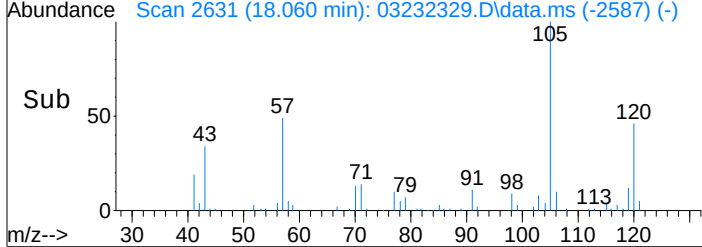
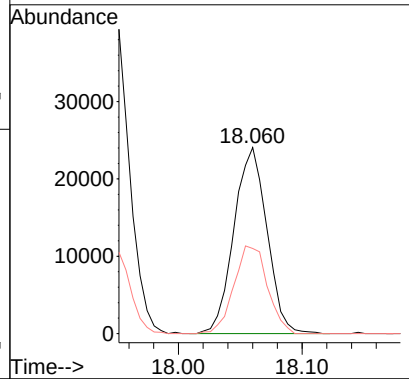
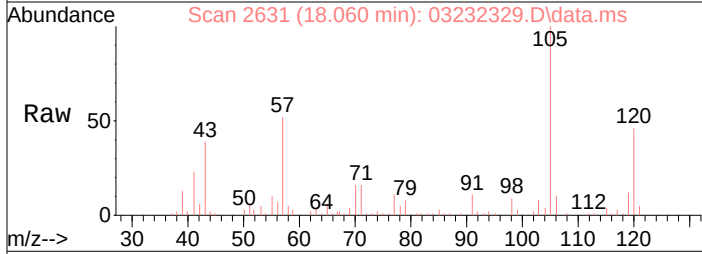
Tgt Ion:	105	Resp:	75973
Ion Ratio		Lower	Upper
105	100		
120	27.9	9.1	49.1





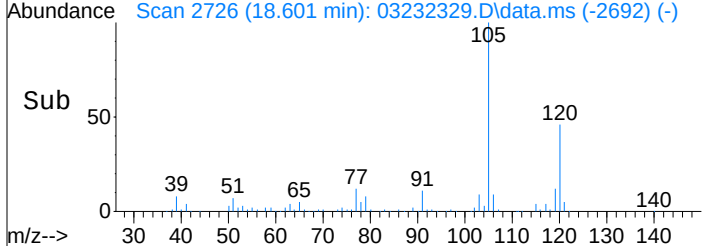
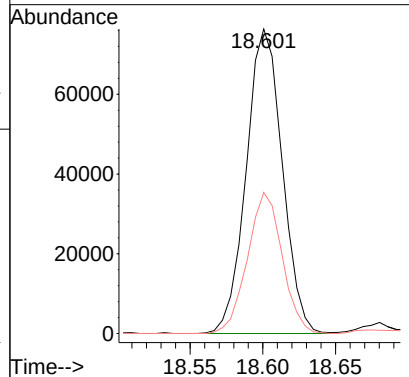
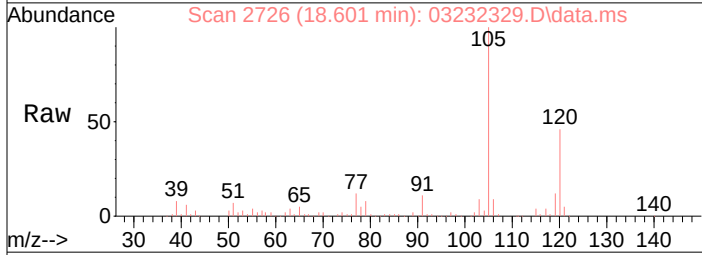
#79
 1,3,5-Trimethylbenzene
 Concen: 0.49 ng
 RT: 18.06 min Scan# 2631
 Delta R.T. 0.000 min
 Lab File: 03232329.D
 Acq: 23 Mar 2023 23:02

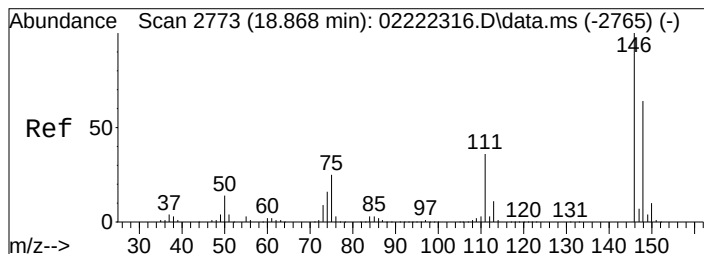
Tgt Ion:	105	Resp:	44773
Ion Ratio	Lower	Upper	
105	100		
120	47.8	28.4	68.4



#82
 1,2,4-Trimethylbenzene
 Concen: 1.46 ng
 RT: 18.60 min Scan# 2726
 Delta R.T. -0.006 min
 Lab File: 03232329.D
 Acq: 23 Mar 2023 23:02

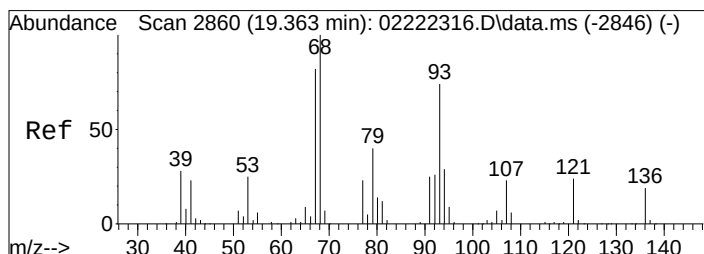
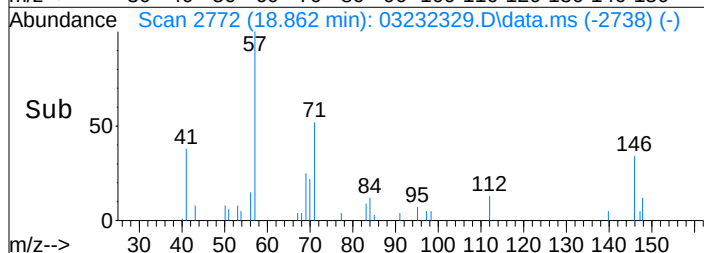
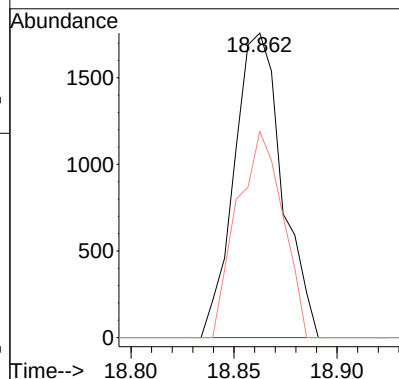
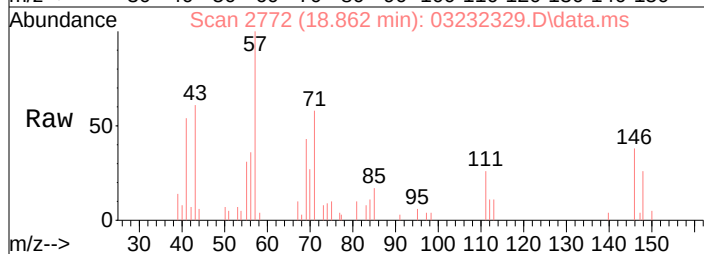
Tgt Ion:	105	Resp:	131530
Ion Ratio	Lower	Upper	
105	100		
120	44.6	32.8	72.8





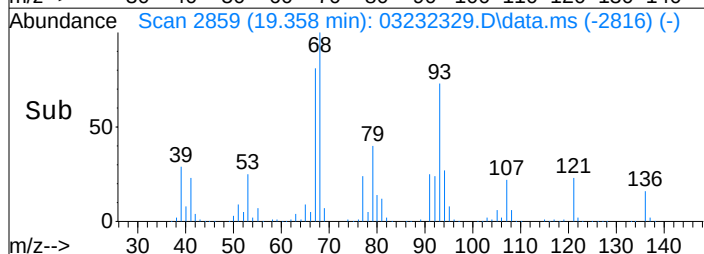
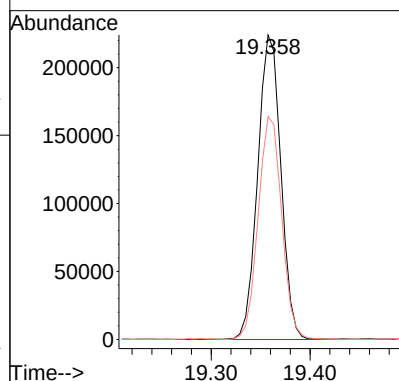
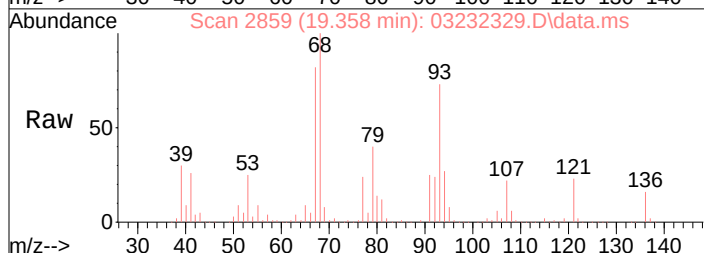
#86
 1,4-Dichlorobenzene
 Concen: 0.05 ng
 RT: 18.86 min Scan# 2772
 Delta R.T. -0.006 min
 Lab File: 03232329.D
 Acq: 23 Mar 2023 23:02

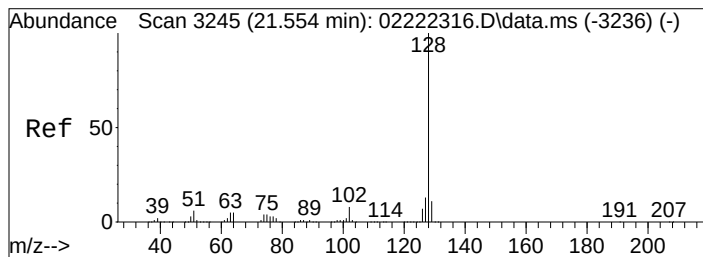
Tgt Ion: 146 Resp: 2842
 Ion Ratio Lower Upper
 146 100
 148 64.5 44.7 84.7



#91
 d-Limonene
 Concen: 11.96 ng
 RT: 19.36 min Scan# 2859
 Delta R.T. -0.006 min
 Lab File: 03232329.D
 Acq: 23 Mar 2023 23:02

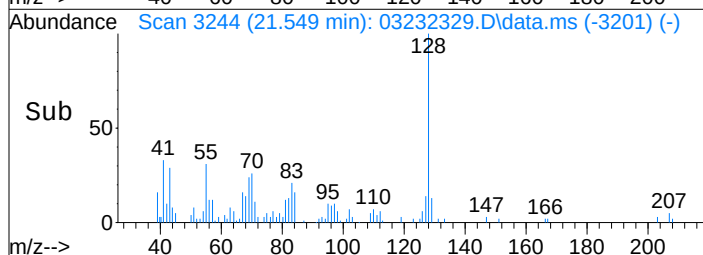
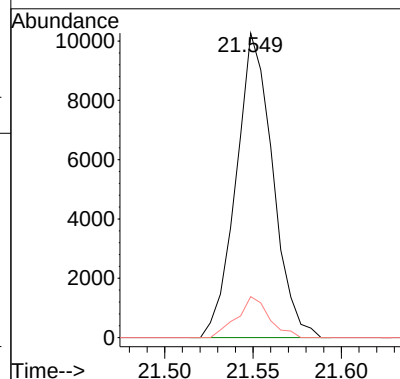
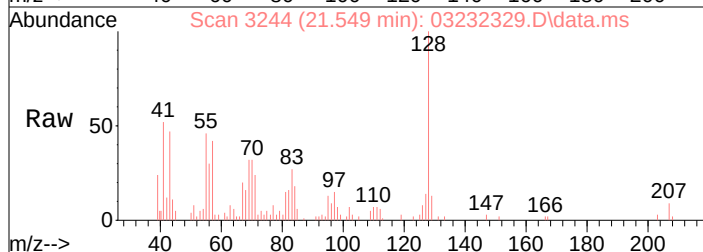
Tgt Ion: 68 Resp: 364410
 Ion Ratio Lower Upper
 68 100
 93 74.4 54.8 94.8





#95
 Naphthalene
 Concen: 0.15 ng
 RT: 21.55 min Scan# 3244
 Delta R.T. -0.006 min
 Lab File: 03232329.D
 Acq: 23 Mar 2023 23:02

Tgt Ion:128 Resp: 14781
 Ion Ratio Lower Upper
 128 100
 129 11.8 0.0 30.9



Data File : I:\MS13\DATA\2023_03\23\03232329.D
 Acq On : 23 Mar 2023 23:02
 Sample : P2301250-005 (1000mL)
 Misc : S35-01202301

Vial: 12
 Operator: TZ
 Inst : MS13

TZ 3/27/23

Quant Time: Mar 27 15:58:59 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.32	130	241678	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	9.37	114	1067128	12.500	ng	-0.01
19) Chlorobenzene-d5 (C_3)	14.88	54	197117	12.500	ng	0.00

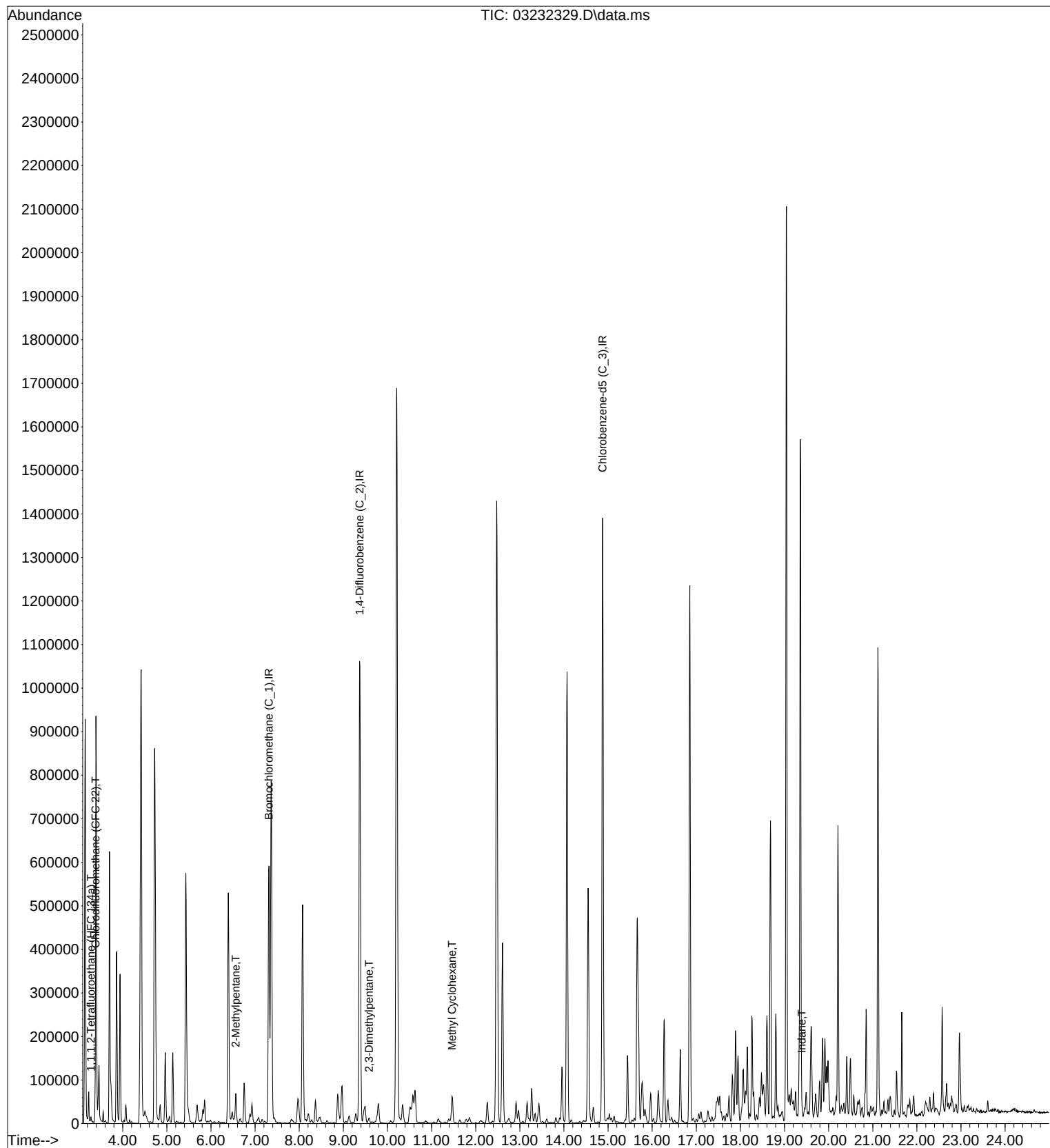
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.21	85	881	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.28	83	4909	0.252	ng	# 47
4) 1,1-Difluoroethane	3.34	65	472	N.D.		
5) Chlorodifluoromethane ...	3.38	67	2630	0.446	ng	# 1
6) 1-Chloro-1,1-Difluoroe...	3.59	65	2306	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	0.00	43	0	N.D.	d	
12) 2-Methylpentane	6.56	71	15477	0.917	ng	# 45
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	9.13	84	3017	N.D.		
17) 2,3-Dimethylpentane	9.59	56	6704	0.213	ng	# 90
18) Dibromomethane	9.87	174	353	N.D.		
20) Methyl Cyclohexane	11.46	55	27217	0.829	ng	88
21) 1,3-Dichloropropane	12.60	76	1874	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	15.23	91	147	N.D.		
24) 1,2,3-Trichloropropane	16.42	75	486	N.D.		
25) Bromobenzene	17.06	77	2586	N.D.		
26) 2-Chlorotoluene	0.00	91	0	N.D.	d	
27) 4-Chlorotoluene	0.00	91	0	N.D.	d	
28) Indane	19.39	117	11720	0.118	ng	# 72
29) Indene	19.50	115	1169	N.D.		
30) 1,2,4,5-Tetramethylben...	20.65	119	5679	N.D.		
31) 1,2,3,4-Tetramethylben...	20.69	119	7234	N.D.		
32) 1,2,3,5-Tetramethylben...	21.12	119	7725	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\23\03232329.D
Acq On : 23 Mar 2023 23:02
Sample : P2301250-005 (1000mL)
Misc : S35-01202301

Vial: 12
Operator: TZ
Inst : MS13

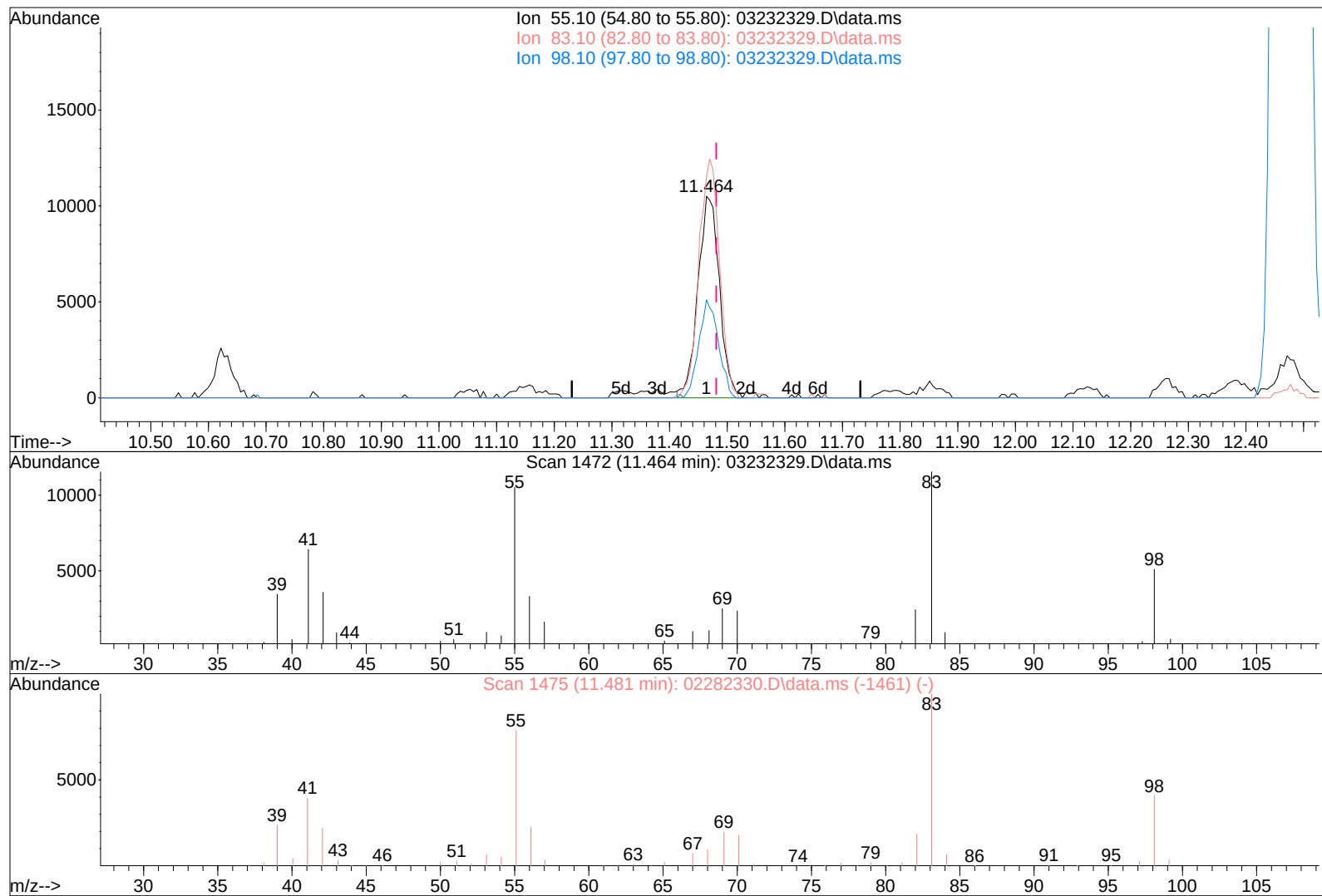
Quant Time: Mar 27 15:58:59 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\23\03232329.D
Acq On : 23 Mar 2023 23:02
Sample : P2301250-005 (1000mL)
Misc : S35-01202301

Vial: 12
Operator: TZ
Inst : MS13

Quant Time: Mar 27 14:40:07 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03232329.D\data.ms

(20) Methyl Cyclohexane (T)

11.464min (-0.017) 0.83ng

response 27217

Ion	Exp%	Act%
55.10	100	100
83.10	128.30	113.73
98.10	53.10	44.46
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG4-2

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01356

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/23/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.29 Final Pressure (psig): 4.32

Container Dilution Factor: 1.67

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.6	0.89	0.15	0.53	0.18	0.029	
74-87-3	Chloromethane	ND	0.35	0.14	ND	0.17	0.070	
75-01-4	Vinyl Chloride	ND	0.18	0.095	ND	0.072	0.037	
74-83-9	Bromomethane	ND	0.35	0.12	ND	0.090	0.032	
75-00-3	Chloroethane	ND	0.35	0.11	ND	0.13	0.042	
67-64-1	Acetone	11	8.8	2.0	4.5	3.7	0.84	
75-69-4	Trichlorofluoromethane	1.2	0.87	0.14	0.21	0.15	0.024	
75-35-4	1,1-Dichloroethene	ND	0.18	0.12	ND	0.046	0.031	
75-09-2	Methylene Chloride	4.6	0.89	0.25	1.3	0.25	0.072	
76-13-1	Trichlorotrifluoroethane	0.52	0.90	0.13	0.068	0.12	0.017	J
75-15-0	Carbon Disulfide	ND	1.8	0.27	ND	0.57	0.086	
156-60-5	trans-1,2-Dichloroethene	ND	0.18	0.12	ND	0.046	0.031	
75-34-3	1,1-Dichloroethane	ND	0.18	0.13	ND	0.045	0.032	
1634-04-4	Methyl tert-Butyl Ether	ND	0.90	0.11	ND	0.25	0.029	
78-93-3	2-Butanone (MEK)	1.6	1.7	0.18	0.54	0.59	0.062	J
156-59-2	cis-1,2-Dichloroethene	ND	0.18	0.13	ND	0.046	0.032	
67-66-3	Chloroform	0.26	0.18	0.12	0.054	0.038	0.024	
107-06-2	1,2-Dichloroethane	ND	0.18	0.099	ND	0.045	0.024	
71-55-6	1,1,1-Trichloroethane	0.37	0.18	0.11	0.069	0.034	0.020	
71-43-2	Benzene	0.95	0.18	0.13	0.30	0.058	0.040	
56-23-5	Carbon Tetrachloride	0.51	0.18	0.12	0.081	0.029	0.020	
110-82-7	Cyclohexane	ND	1.8	0.25	ND	0.51	0.073	
78-87-5	1,2-Dichloropropane	ND	0.18	0.11	ND	0.040	0.024	
75-27-4	Bromodichloromethane	ND	0.18	0.13	ND	0.027	0.019	
79-01-6	Trichloroethene	0.99	0.18	0.12	0.18	0.034	0.022	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG4-2

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01356

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/23/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.29 Final Pressure (psig): 4.32

Container Dilution Factor: 1.67

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.90	0.14	ND	0.20	0.031	
108-10-1	4-Methyl-2-pentanone	0.26	1.8	0.12	0.063	0.45	0.030	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.85	0.18	ND	0.19	0.040	
79-00-5	1,1,2-Trichloroethane	ND	0.18	0.090	ND	0.034	0.017	
108-88-3	Toluene	2.6	0.89	0.11	0.69	0.23	0.029	
591-78-6	2-Hexanone	0.26	1.8	0.11	0.062	0.45	0.027	J
124-48-1	Dibromochloromethane	ND	0.18	0.12	ND	0.022	0.014	
106-93-4	1,2-Dibromoethane	ND	0.18	0.10	ND	0.024	0.013	
127-18-4	Tetrachloroethene	0.70	0.18	0.12	0.10	0.027	0.017	
108-90-7	Chlorobenzene	ND	0.89	0.12	ND	0.19	0.026	
100-41-4	Ethylbenzene	0.54	0.89	0.13	0.12	0.20	0.029	J
179601-23-1	m,p-Xylenes	2.0	1.8	0.23	0.45	0.42	0.054	
75-25-2	Bromoform	ND	0.90	0.18	ND	0.087	0.018	
100-42-5	Styrene	0.46	0.89	0.14	0.11	0.21	0.034	J
95-47-6	o-Xylene	0.84	0.89	0.13	0.19	0.20	0.030	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.18	0.12	ND	0.027	0.018	
98-82-8	Cumene	ND	0.90	0.13	ND	0.18	0.026	
541-73-1	1,3-Dichlorobenzene	ND	0.89	0.13	ND	0.15	0.022	
106-46-7	1,4-Dichlorobenzene	ND	0.89	0.14	ND	0.15	0.023	
95-50-1	1,2-Dichlorobenzene	ND	0.90	0.13	ND	0.15	0.022	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.8	0.17	ND	0.19	0.017	
120-82-1	1,2,4-Trichlorobenzene	ND	1.8	0.22	ND	0.25	0.029	
79-20-9	Methyl Acetate	ND	0.84	0.40	ND	0.28	0.13	X
108-87-2	Methylcyclohexane	ND	0.84	0.43	ND	0.21	0.11	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS13\DATA\2023_03\23\03232330.D
 Acq On : 23 Mar 2023 23:37
 Sample : P2301250-006 (1000mL)
 Misc : S35-01202301

Vial: 13
 Operator: TZ
 Inst : MS13

TZ 3/27/23

Quant Time: Mar 27 11:04:31 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.31	130	242209	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	9.37	114	1069441	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.87	54	194912	12.500	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	416181	12.948	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	103.60%
57) Toluene-d8 (SS2)	12.48	98	1212672	12.098	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	96.80%
73) Bromofluorobenzene (SS3)	16.85	174	440283	11.992	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	95.92%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	3.46	85	69582	1.568	ng	99
4) Chloromethane	0.00	50	0	N.D.	d	
5) 1,2-Dichloro-1,1,2,2-t...	3.72	135	1531	0.068	ng	92
6) Vinyl Chloride	3.79	62	334	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.	d	
8) Bromomethane	4.08	94	307	N.D.		
9) Chloroethane	4.26	64	171	N.D.		
10) Ethanol	4.41	45	1159224	67.389	ng	100
11) Acetonitrile	0.00	41	0	N.D.	d	
12) Acrolein	4.63	56	1971	0.139	ng	88
13) Acetone	4.73	58	93903	6.396	ng	90
14) Trichlorofluoromethane	4.86	101	28660	0.718	ng	95
15) 2-Propanol (Isopropanol)	4.96	45	51405	0.867	ng	86
16) Acrylonitrile	5.13	53	1135	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.44	84	59424	2.761	ng	97
20) 3-Chloro-1-propene (Al...	5.55	41	111	N.D.		
21) Trichlorotrifluoroethane	5.68	151	6553	0.312	ng	98
22) Carbon Disulfide	5.70	76	13373	0.157	ng	99
23) trans-1,2-Dichloroethene	6.13	61	493	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.	d	
25) Methyl tert-Butyl Ether	6.46	73	278	N.D.		
26) Vinyl Acetate	6.52	86	1864	0.470	ng	# 1
27) 2-Butanone (MEK)	6.75	72	12464	0.956	ng	98
28) cis-1,2-Dichloroethene	7.14	61	571	N.D.		
29) Diisopropyl Ether	7.36	87	775	N.D.		
30) Ethyl Acetate	7.36	61	68911	8.041	ng	94
31) n-Hexane	7.38	57	9097	0.276	ng	99
32) Chloroform	7.43	83	6181	0.158	ng	93
34) Tetrahydrofuran (THF)	7.85	72	775	0.058	ng	# 1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.19	62	1096	N.D.		
38) 1,1,1-Trichloroethane	8.46	97	7929	0.224	ng	93
39) Isopropyl Acetate	9.37	61	29708	No Calib		
40) 1-Butanol	8.87	56	37409	No Calib	#	
41) Benzene	8.97	78	47236	0.568	ng	99
42) Carbon Tetrachloride	9.14	117	9494	0.304	ng	94
43) Cyclohexane	9.28	84	2552	0.084	ng	# 82
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	10.13	83	581	N.D.		
47) Trichloroethene	10.21	130	14427	0.592	ng	98
48) 1,4-Dioxane	10.21	88	383	N.D.		
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.	d	
50) Methyl Methacrylate	10.38	100	128	N.D.		

Data File : I:\MS13\DATA\2023_03\23\03232330.D
 Acq On : 23 Mar 2023 23:37
 Sample : P2301250-006 (1000mL)
 Misc : S35-01202301

Vial: 13
 Operator: TZ
 Inst : MS13

Quant Time: Mar 27 11:04:31 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

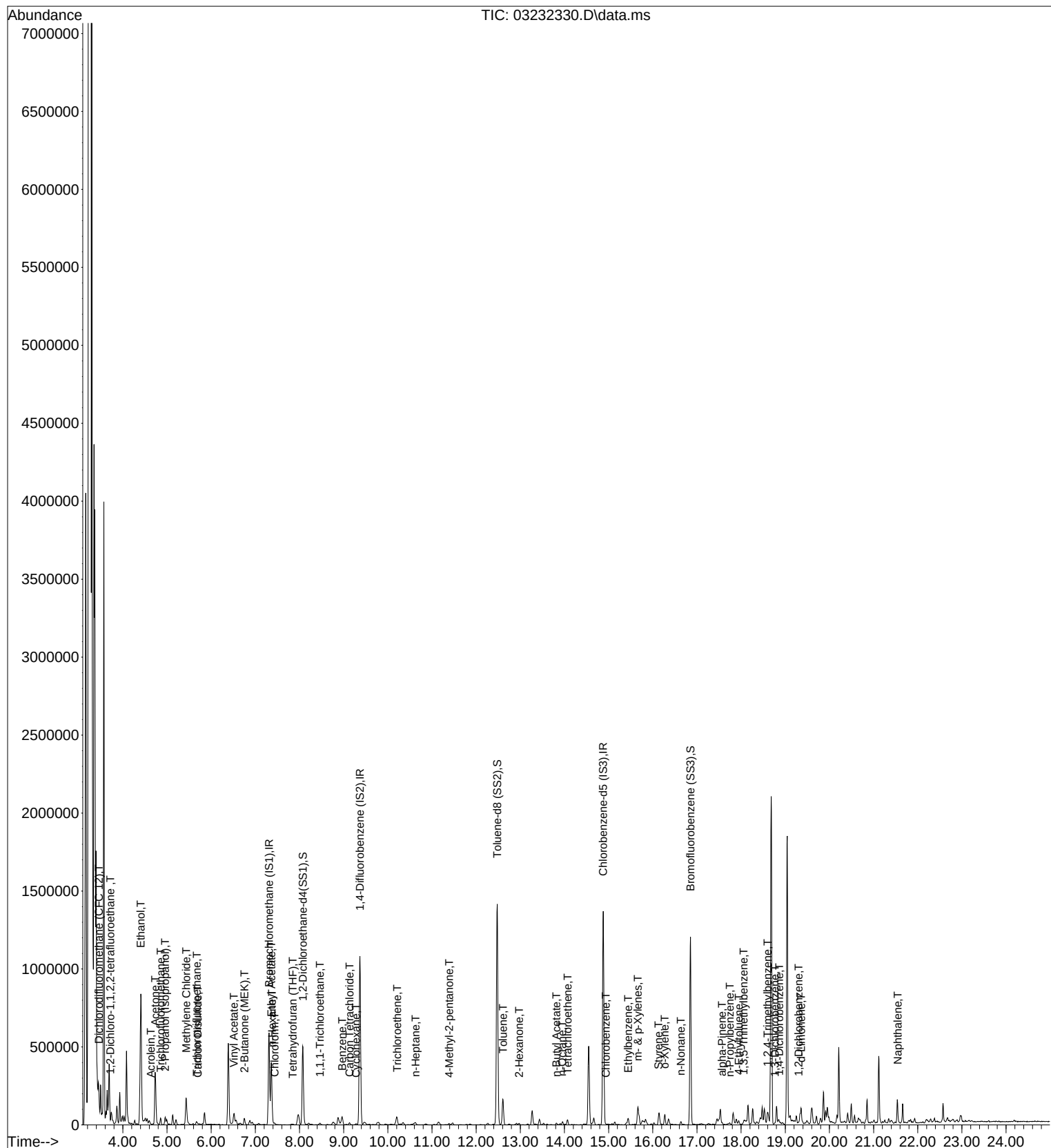
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.63	71	3168	0.157	ng	93
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.39	58	2770	0.154	ng	# 67
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.61	91	148223	1.553	ng	100
59) 2-Hexanone	12.97	43	7073	0.153	ng	81
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.81	43	10405	0.197	ng	96
63) n-Octane	13.95	57	3626	0.193	ng	93
64) Tetrachloroethene	14.07	166	12100	0.417	ng	99
65) Chlorobenzene	14.94	112	3209	0.051	ng	99
66) Ethylbenzene	15.44	91	36662	0.322	ng	100
67) m- & p-Xylenes	15.66	91	108111	1.180	ng	100
68) Bromoform	15.72	173	202	N.D.		
69) Styrene	16.13	104	17335	0.275	ng	99
70) o-Xylene	16.27	91	44089	0.503	ng	99
71) n-Nonane	16.64	43	8635	0.204	ng	96
72) 1,1,2,2-Tetrachloroethane	16.15	83	211	N.D.		
74) Cumene	17.06	105	3780	N.D.		
75) alpha-Pinene	17.57	93	4948	0.101	ng	90
76) n-Propylbenzene	17.74	91	9466	0.074	ng	95
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	10385	0.102	ng	99
79) 1,3,5-Trimethylbenzene	18.06	105	8921	0.099	ng	95
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.60	105	33582	0.377	ng	89
83) n-Decane	17.13	58	1247	No Calib	#	
84) Benzyl Chloride	18.75	91	487	N.D.		
85) 1,3-Dichlorobenzene	18.77	146	2752	0.051	ng	86
86) 1,4-Dichlorobenzene	18.87	146	4112	0.074	ng	100
87) sec-Butylbenzene	18.96	105	1235	N.D.		
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.	d	
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.30	146	4109	0.077	ng	97
91) d-Limonene	19.36	68	21824	0.724	ng	97
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.25	58	3425	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	319	N.D.		
95) Naphthalene	21.55	128	13393	0.139	ng	97
96) n-Dodecane	19.15	58	545	No Calib	#	
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	15.76	55	3087	No Calib	#	
99) tert-Butylbenzene	0.00	119	0	N.D.	d	
100) n-Butylbenzene	0.00	91	0	N.D.	d	
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

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Acq On : 23 Mar 2023 23:37
Sample : P2301250-006 (1000mL)
Misc : S35-01202301

Vial: 13
Operator: TZ
Inst : MS13

Quant Time: Mar 27 11:04:31 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
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DataAcq Meth:T015.M



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37) 1,4-Difluorobenzene (IS2)	9.37	114	1069441	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.87	54	194912	12.500	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	416181	12.948	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	103.60%
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Spiked Amount	12.500	Range	70 - 130	Recovery	=	96.80%
73) Bromofluorobenzene (SS3)	16.85	174	440283	11.992	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	95.92%

Target Compounds

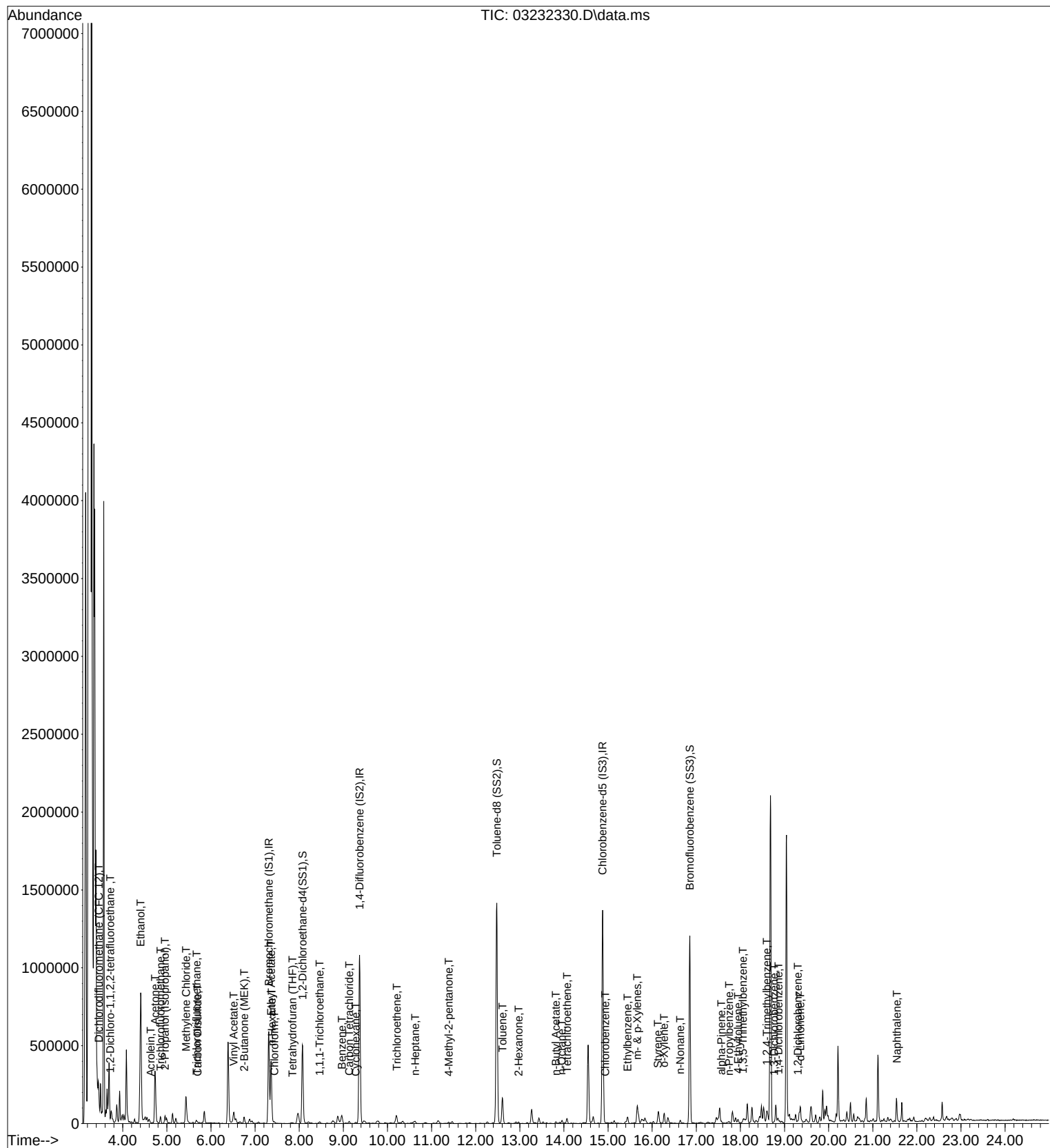
						Qvalue
3) Dichlorodifluoromethan...	3.46	85	69582	1.568	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	3.72	135	1531	0.068	ng	92
10) Ethanol	4.41	45	1159224	67.389	ng	100
12) Acrolein	4.63	56	1971	0.139	ng	88
13) Acetone	4.73	58	93903	6.396	ng	90
14) Trichlorofluoromethane	4.86	101	28660	0.718	ng	95
15) 2-Propanol (Isopropanol)	4.96	45	51405	0.867	ng	86
19) Methylene Chloride	5.44	84	59424	2.761	ng	97
21) Trichlorotrifluoroethane	5.68	151	6553	0.312	ng	98
22) Carbon Disulfide	5.70	76	13373	0.157	ng	99
26) Vinyl Acetate	6.52	86	1864	0.470	ng	# 1
27) 2-Butanone (MEK)	6.75	72	12464	0.956	ng	98
30) Ethyl Acetate	7.36	61	68911	8.041	ng	94
31) n-Hexane	7.38	57	9097	0.276	ng	99
32) Chloroform	7.43	83	6181	0.158	ng	93
34) Tetrahydrofuran (THF)	7.85	72	775	0.058	ng	# 1
38) 1,1,1-Trichloroethane	8.46	97	7929	0.224	ng	93
41) Benzene	8.97	78	47236	0.568	ng	99
42) Carbon Tetrachloride	9.14	117	9494	0.304	ng	94
43) Cyclohexane	9.28	84	2552	0.084	ng	# 82
47) Trichloroethene	10.21	130	14427	0.592	ng	98
51) n-Heptane	10.63	71	3168	0.157	ng	93
53) 4-Methyl-2-pentanone	11.39	58	2770	0.154	ng	# 67
58) Toluene	12.61	91	148223	1.553	ng	100
59) 2-Hexanone	12.97	43	7073	0.153	ng	81
62) n-Butyl Acetate	13.81	43	10405	0.197	ng	96
63) n-Octane	13.95	57	3626	0.193	ng	93
64) Tetrachloroethene	14.07	166	12100	0.417	ng	99
65) Chlorobenzene	14.94	112	3209	0.051	ng	99
66) Ethylbenzene	15.44	91	36662	0.322	ng	100
67) m- & p-Xylenes	15.66	91	108111	1.180	ng	100
69) Styrene	16.13	104	17335	0.275	ng	99
70) o-Xylene	16.27	91	44089	0.503	ng	99
71) n-Nonane	16.64	43	8635	0.204	ng	96
75) alpha-Pinene	17.57	93	4948	0.101	ng	90
76) n-Propylbenzene	17.74	91	9466	0.074	ng	95
78) 4-Ethyltoluene	17.95	105	10385	0.102	ng	99
79) 1,3,5-Trimethylbenzene	18.06	105	8921	0.099	ng	95
82) 1,2,4-Trimethylbenzene	18.60	105	33582	0.377	ng	89
85) 1,3-Dichlorobenzene	18.77	146	2752	0.051	ng	86
86) 1,4-Dichlorobenzene	18.87	146	4112	0.074	ng	100
90) 1,2-Dichlorobenzene	19.30	146	4109	0.077	ng	97
91) d-Limonene	19.36	68	21824	0.724	ng	97
95) Naphthalene	21.55	128	13393	0.139	ng	97

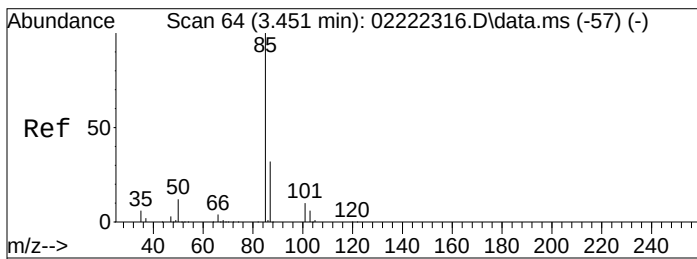
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Sample : P2301250-006 (1000mL)
Misc : S35-01202301

Vial: 13
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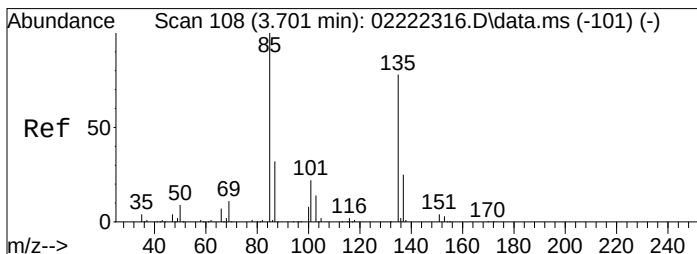
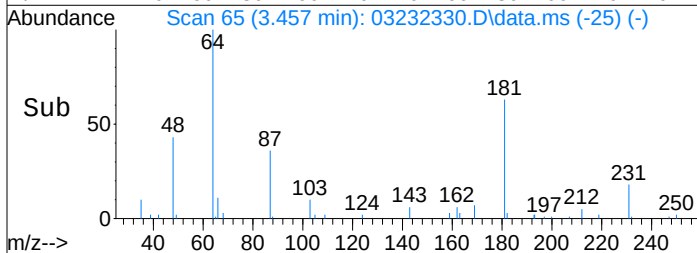
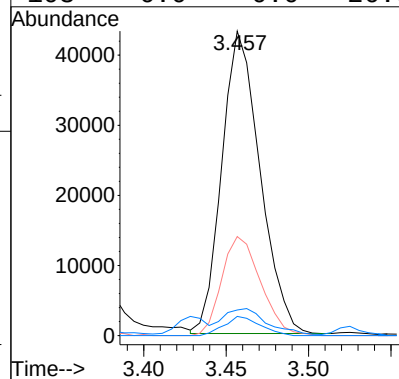
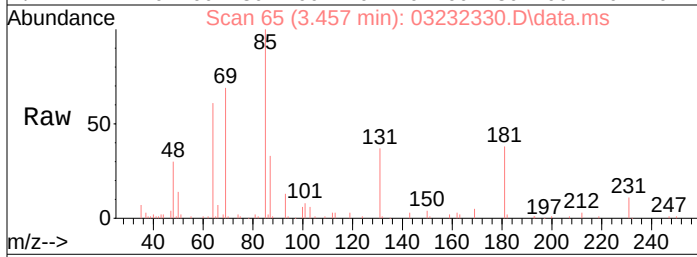
Quant Time: Mar 27 11:04:31 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M





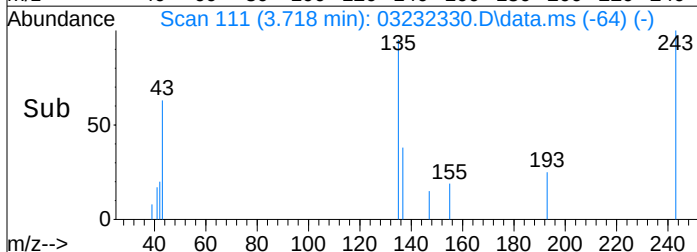
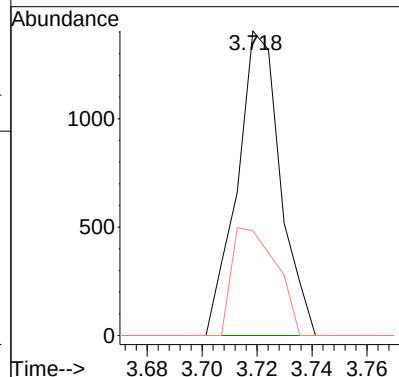
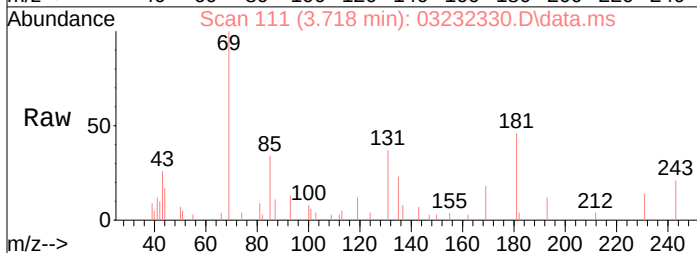
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.57 ng
 RT: 3.46 min Scan# 65
 Delta R.T. -0.021 min
 Lab File: 03232330.D
 Acq: 23 Mar 2023 23:37

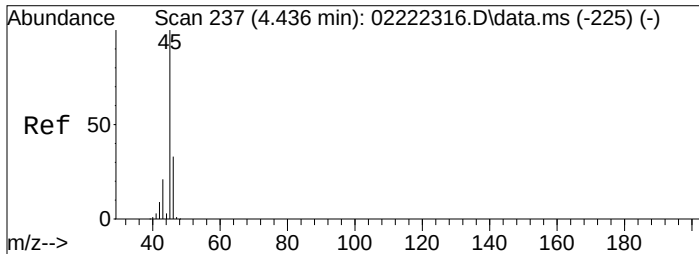
Tgt Ion: 85 Resp: 69582
 Ion Ratio Lower Upper
 85 100
 87 33.3 12.4 52.4
 101 9.6 0.0 29.4
 103 6.0 0.0 26.0



#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.07 ng
 RT: 3.72 min Scan# 111
 Delta R.T. 0.017 min
 Lab File: 03232330.D
 Acq: 23 Mar 2023 23:37

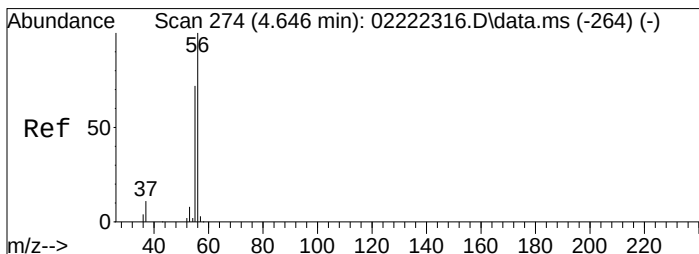
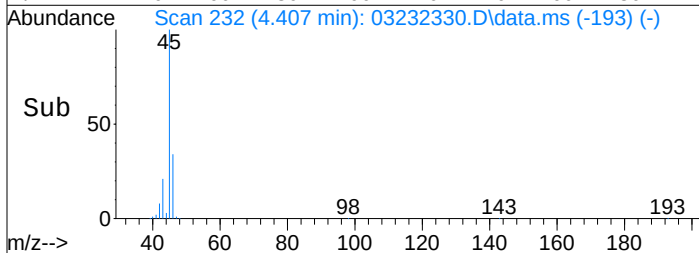
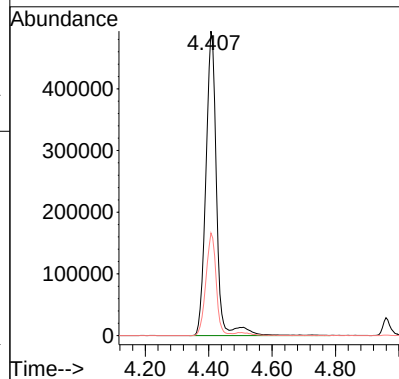
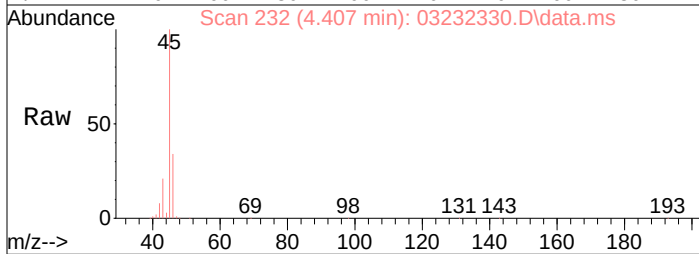
Tgt Ion: 135 Resp: 1531
 Ion Ratio Lower Upper
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 137 36.6 12.2 52.2





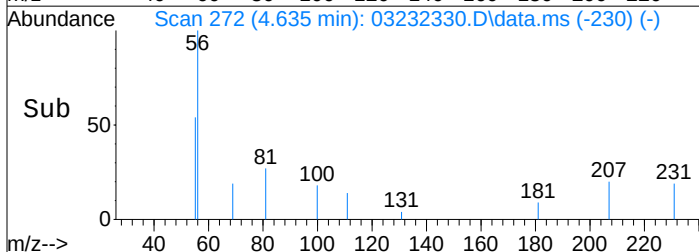
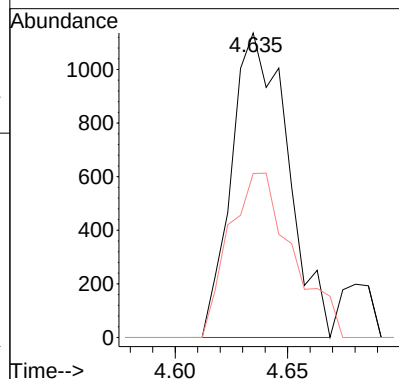
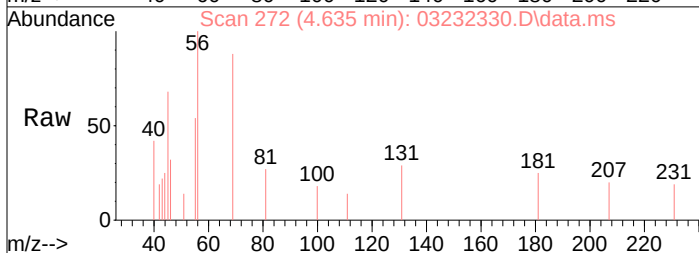
#10
Ethanol
Concen: 67.39 ng
RT: 4.41 min Scan# 232
Delta R.T. -0.028 min
Lab File: 03232330.D
Acq: 23 Mar 2023 23:37

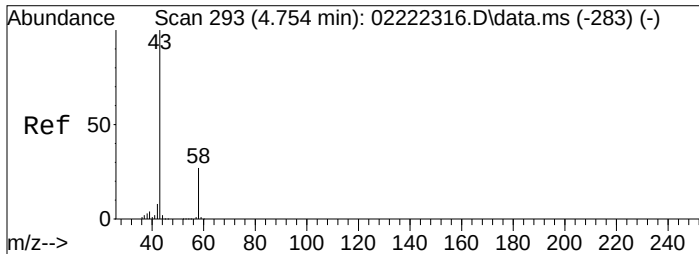
Tgt Ion: 45 Resp: 1159224
Ion Ratio Lower Upper
45 100
46 33.9 13.8 53.8



#12
Acrolein
Concen: 0.14 ng
RT: 4.63 min Scan# 272
Delta R.T. -0.011 min
Lab File: 03232330.D
Acq: 23 Mar 2023 23:37

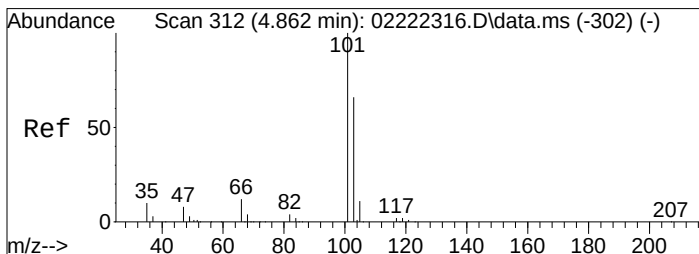
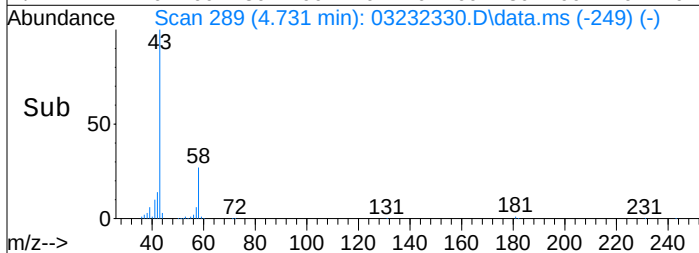
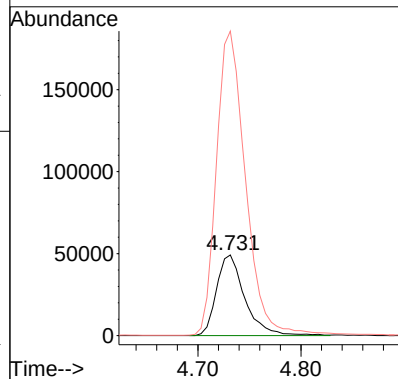
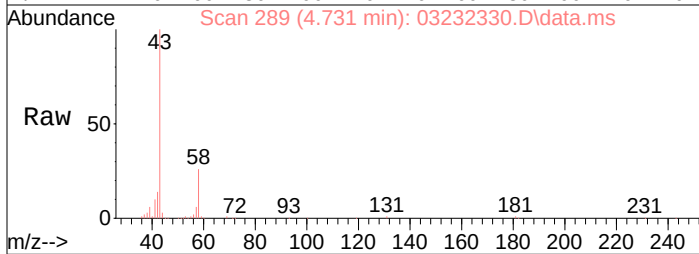
Tgt Ion: 56 Resp: 1971
Ion Ratio Lower Upper
56 100
55 61.1 50.9 90.9





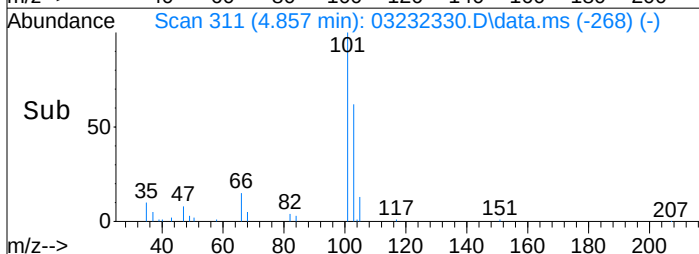
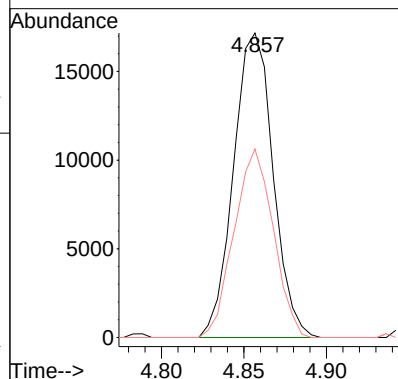
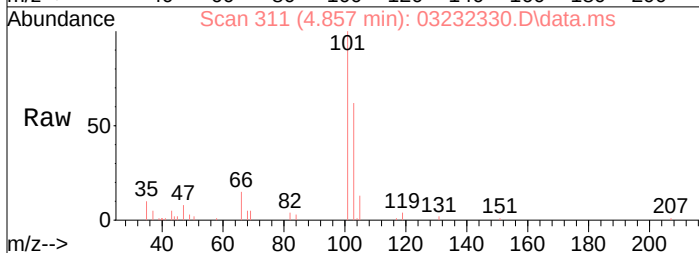
#13
Acetone
Concen: 6.40 ng
RT: 4.73 min Scan# 289
Delta R.T. -0.023 min
Lab File: 03232330.D
Acq: 23 Mar 2023 23:37

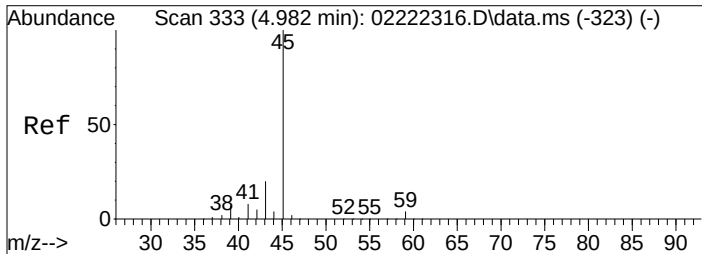
Tgt Ion: 58 Resp: 93903
Ion Ratio Lower Upper
58 100
43 389.4 337.8 397.8



#14
Trichlorofluoromethane
Concen: 0.72 ng
RT: 4.86 min Scan# 311
Delta R.T. -0.006 min
Lab File: 03232330.D
Acq: 23 Mar 2023 23:37

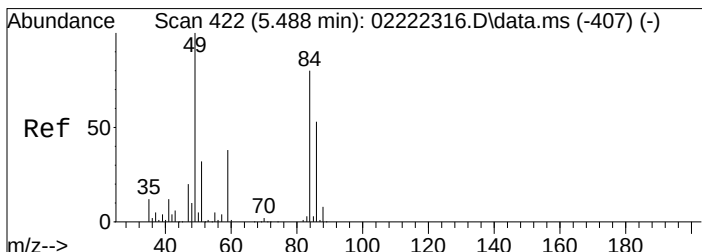
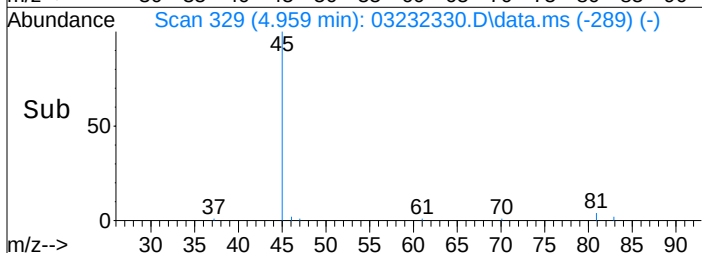
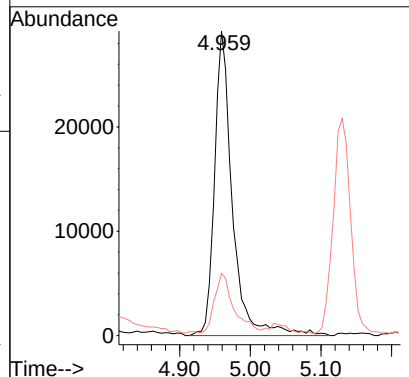
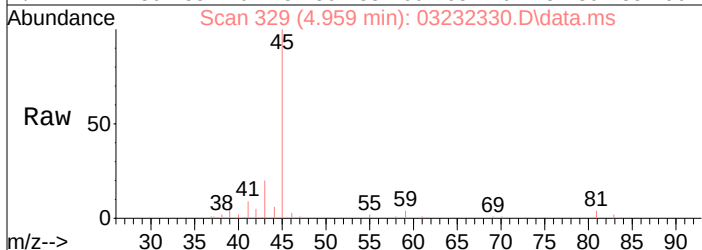
Tgt Ion: 101 Resp: 28660
Ion Ratio Lower Upper
101 100
103 61.4 45.2 85.2





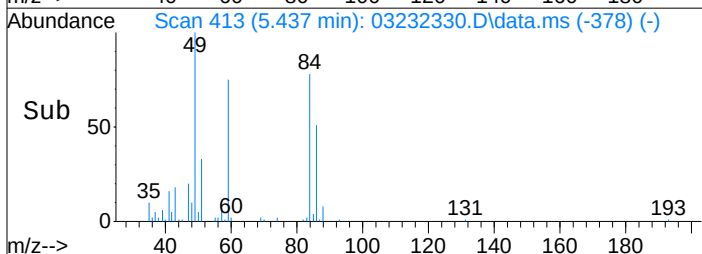
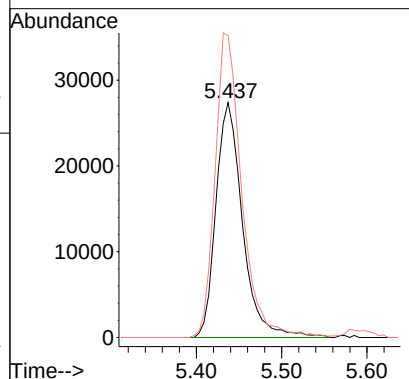
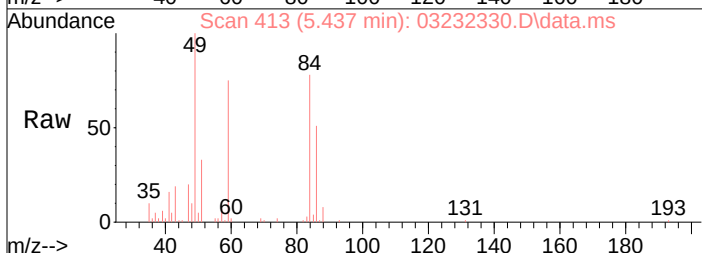
#15
 2-Propanol (Isopropanol)
 Concen: 0.87 ng
 RT: 4.96 min Scan# 329
 Delta R.T. -0.023 min
 Lab File: 03232330.D
 Acq: 23 Mar 2023 23:37

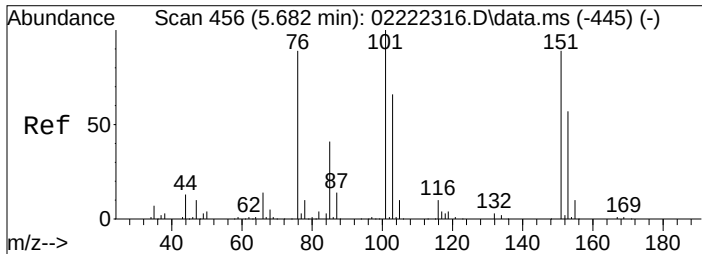
Tgt Ion	45	43	Resp	51405	Lower	Upper
Ion Ratio	100	26.2			0.0	39.7



#19
 Methylene Chloride
 Concen: 2.76 ng
 RT: 5.44 min Scan# 413
 Delta R.T. -0.051 min
 Lab File: 03232330.D
 Acq: 23 Mar 2023 23:37

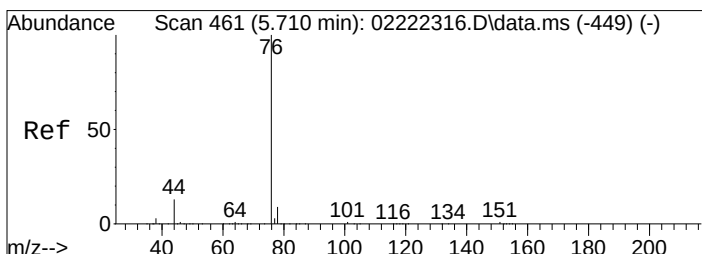
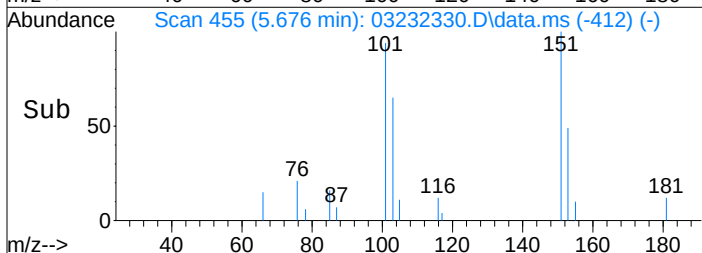
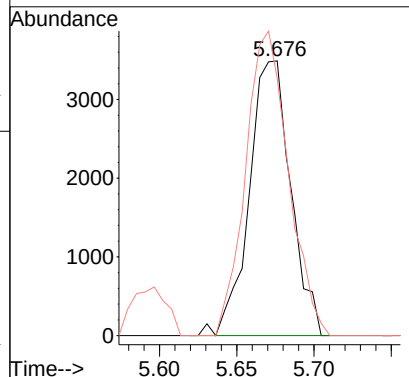
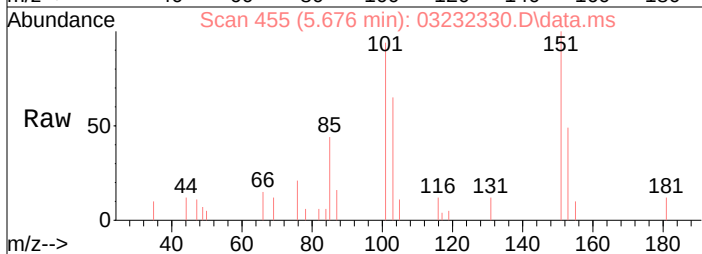
Tgt Ion	84	49	Resp	59424	Lower	Upper
Ion Ratio	100	130.0			101.3	151.3





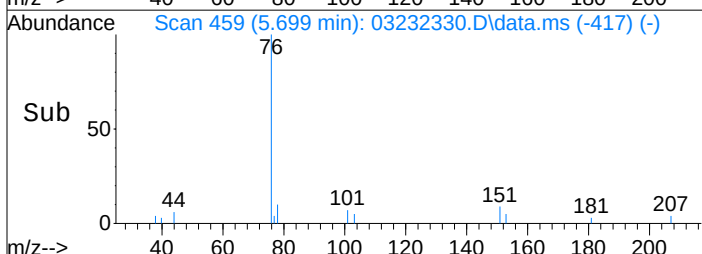
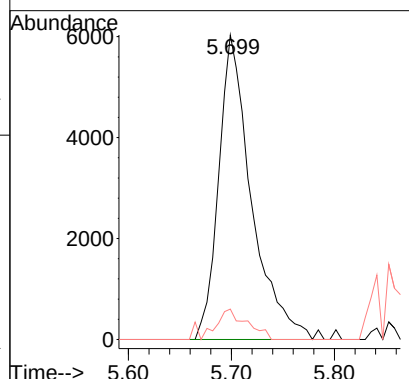
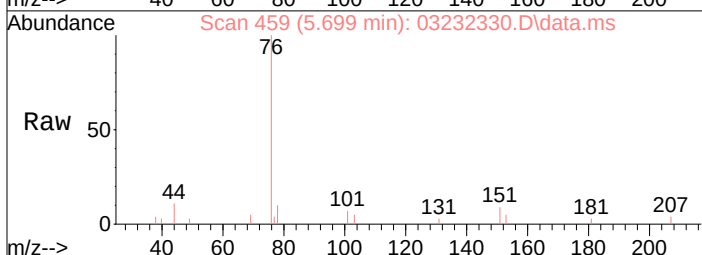
#21
 Trichlorotrifluoroethane
 Concen: 0.31 ng
 RT: 5.68 min Scan# 455
 Delta R.T. -0.006 min
 Lab File: 03232330.D
 Acq: 23 Mar 2023 23:37

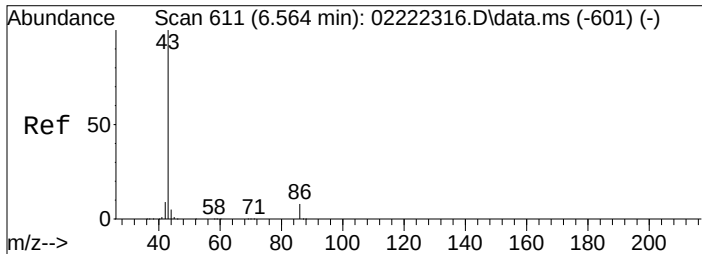
Tgt Ion: 151 Resp: 6553
 Ion Ratio Lower Upper
 151 100
 101 114.2 96.3 136.3



#22
 Carbon Disulfide
 Concen: 0.16 ng
 RT: 5.70 min Scan# 459
 Delta R.T. -0.011 min
 Lab File: 03232330.D
 Acq: 23 Mar 2023 23:37

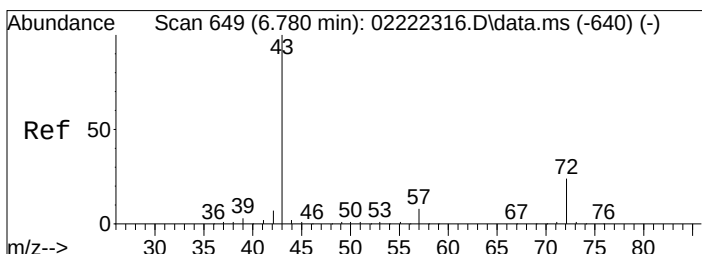
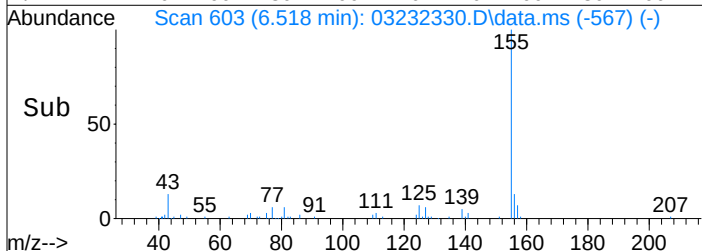
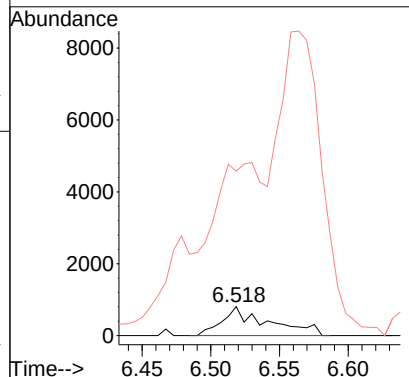
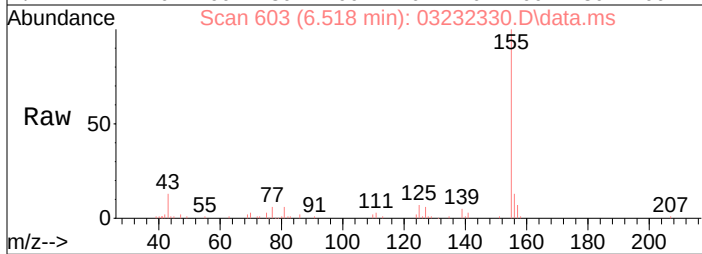
Tgt Ion: 76 Resp: 13373
 Ion Ratio Lower Upper
 76 100
 78 9.1 0.0 29.3





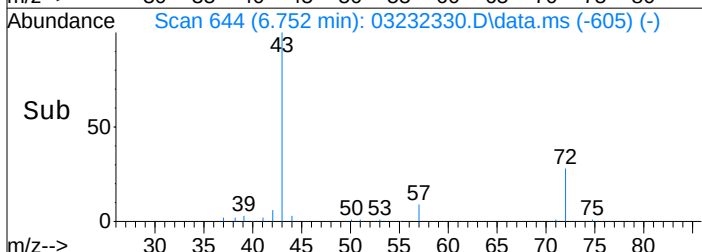
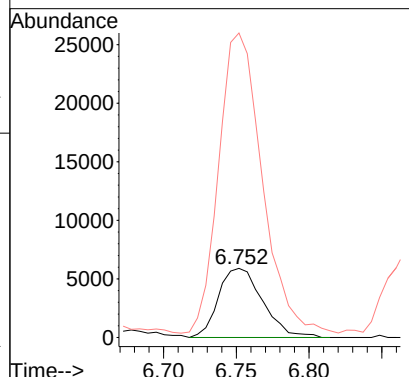
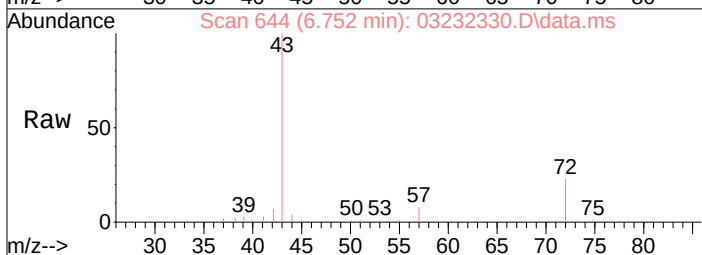
#26
 Vinyl Acetate
 Concen: 0.47 ng
 RT: 6.52 min Scan# 603
 Delta R.T. -0.046 min
 Lab File: 03232330.D
 Acq: 23 Mar 2023 23:37

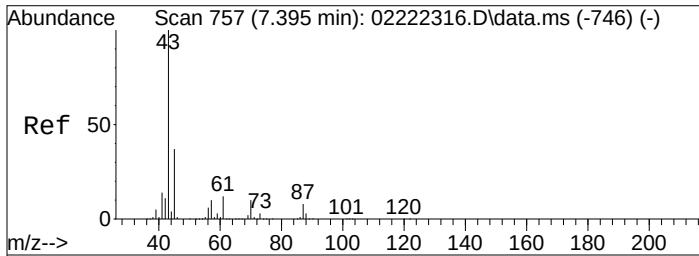
Tgt Ion: 86 Resp: 1864
 Ion Ratio Lower Upper
 86 100
 43 651.7 1292.1 1332.1#



#27
 2-Butanone (MEK)
 Concen: 0.96 ng
 RT: 6.75 min Scan# 644
 Delta R.T. -0.028 min
 Lab File: 03232330.D
 Acq: 23 Mar 2023 23:37

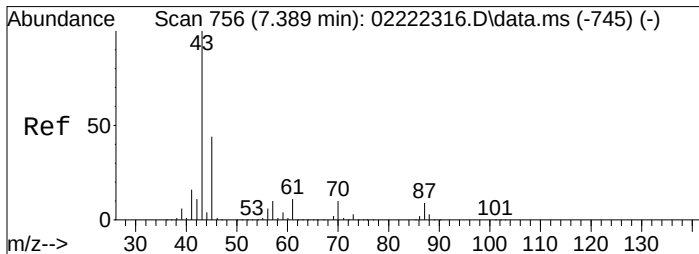
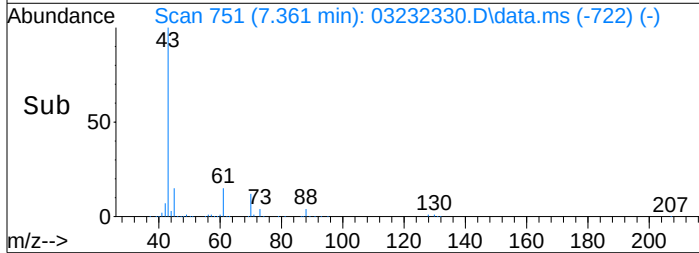
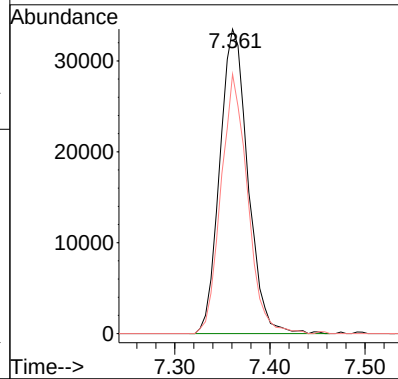
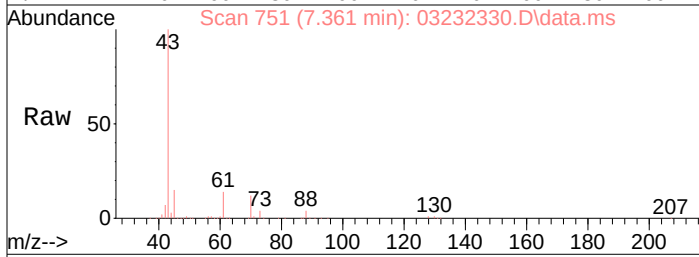
Tgt Ion: 72 Resp: 12464
 Ion Ratio Lower Upper
 72 100
 43 426.3 400.5 440.5





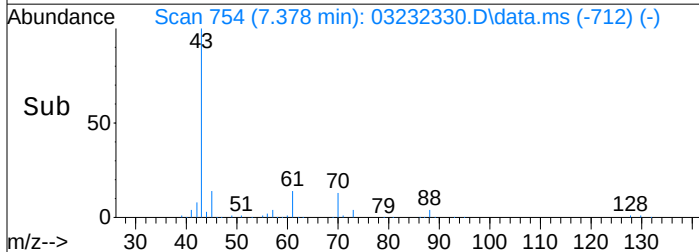
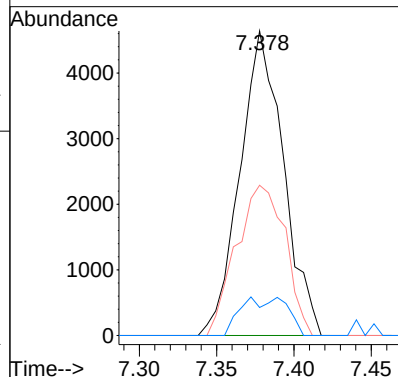
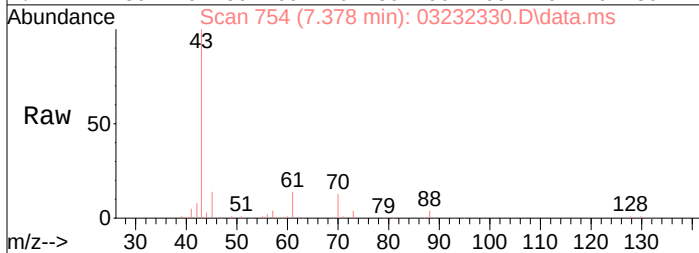
#30
Ethyl Acetate
Concen: 8.04 ng
RT: 7.36 min Scan# 751
Delta R.T. -0.034 min
Lab File: 03232330.D
Acq: 23 Mar 2023 23:37

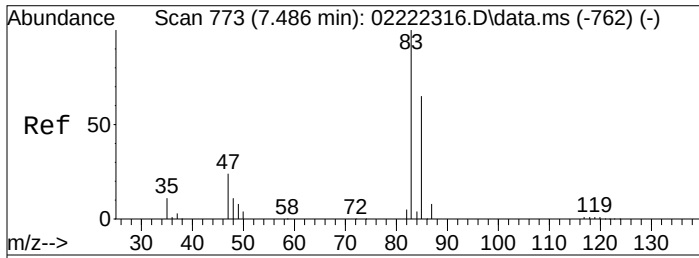
Tgt Ion: 61 Resp: 68911
Ion Ratio Lower Upper
61 100
70 80.4 65.6 105.6



#31
n-Hexane
Concen: 0.28 ng
RT: 7.38 min Scan# 754
Delta R.T. -0.011 min
Lab File: 03232330.D
Acq: 23 Mar 2023 23:37

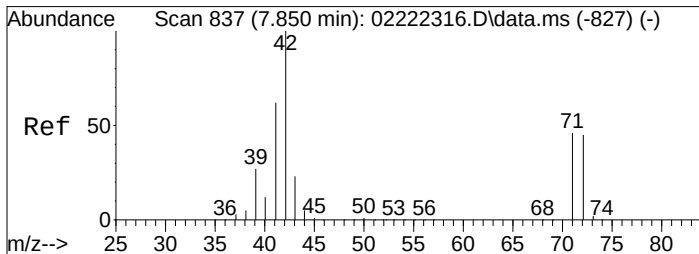
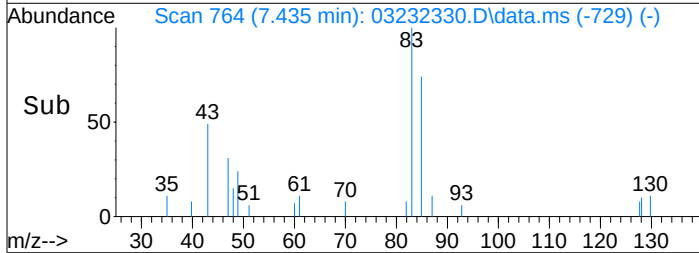
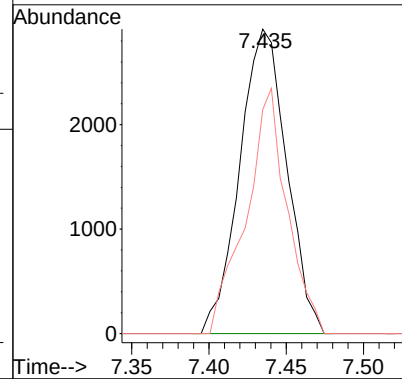
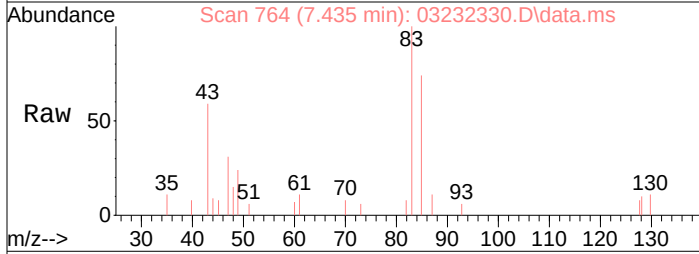
Tgt Ion: 57 Resp: 9097
Ion Ratio Lower Upper
57 100
56 55.5 44.0 66.0
86 13.4 11.5 17.3





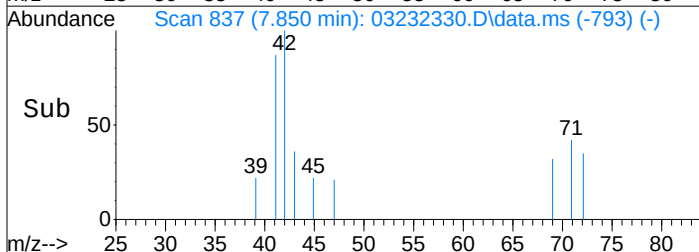
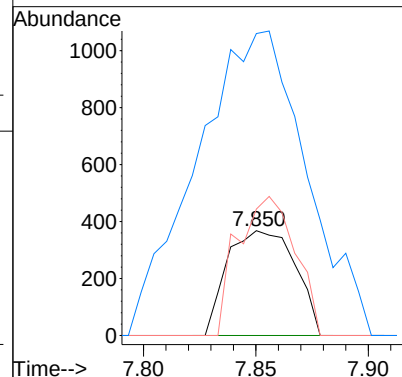
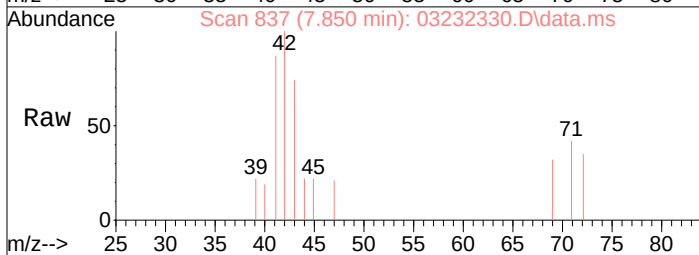
#32
Chloroform
Concen: 0.16 ng
RT: 7.43 min Scan# 764
Delta R.T. -0.051 min
Lab File: 03232330.D
Acq: 23 Mar 2023 23:37

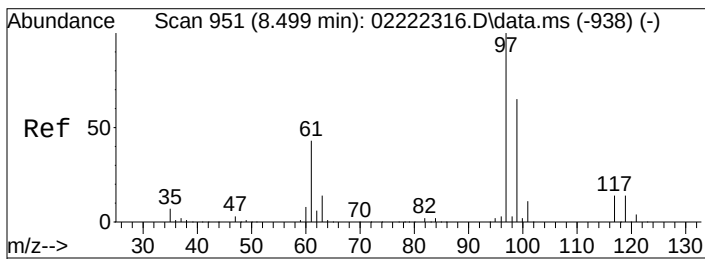
Tgt Ion: 83 Resp: 6181
Ion Ratio Lower Upper
83 100
85 70.3 45.0 85.0



#34
Tetrahydrofuran (THF)
Concen: 0.06 ng
RT: 7.85 min Scan# 837
Delta R.T. 0.000 min
Lab File: 03232330.D
Acq: 23 Mar 2023 23:37

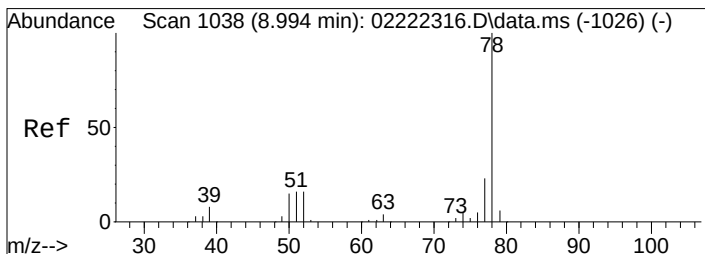
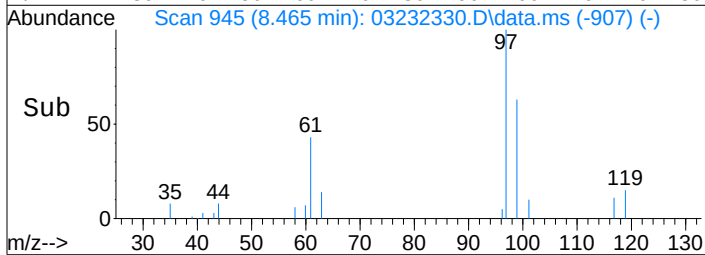
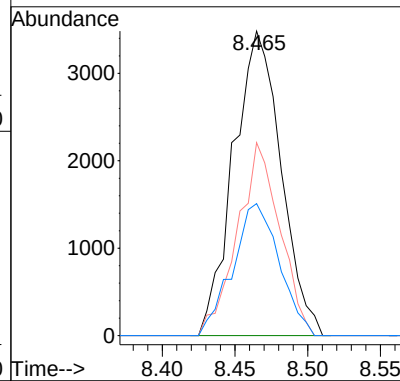
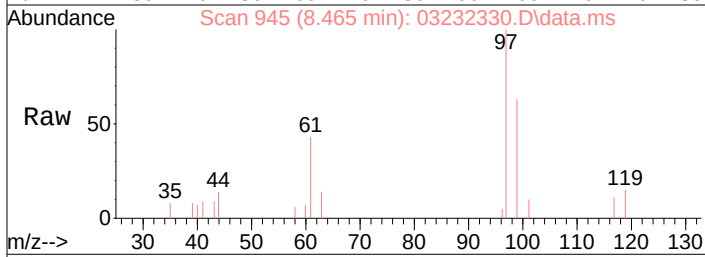
Tgt Ion: 72 Resp: 775
Ion Ratio Lower Upper
72 100
71 112.5 79.8 119.8
42 470.5 199.0 239.0#





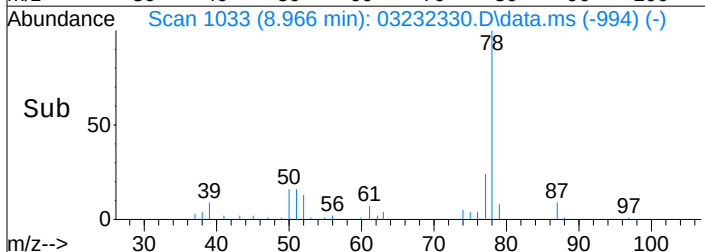
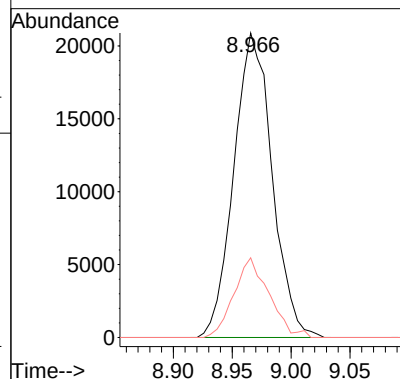
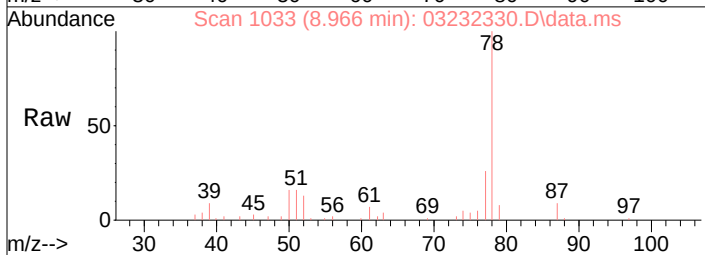
#38
 1,1,1-Trichloroethane
 Concen: 0.22 ng
 RT: 8.46 min Scan# 945
 Delta R.T. -0.034 min
 Lab File: 03232330.D
 Acq: 23 Mar 2023 23:37

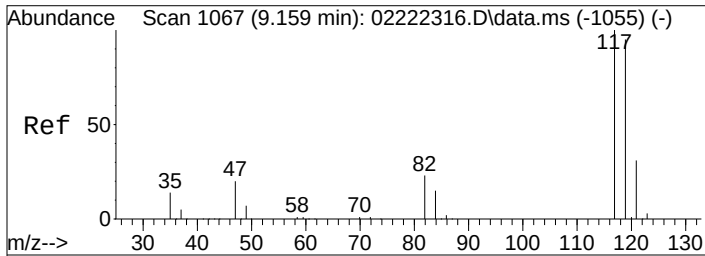
Tgt Ion: 97 Resp: 7929
 Ion Ratio Lower Upper
 97 100
 99 56.4 44.9 84.9
 61 42.5 23.5 63.5



#41
 Benzene
 Concen: 0.57 ng
 RT: 8.97 min Scan# 1033
 Delta R.T. -0.028 min
 Lab File: 03232330.D
 Acq: 23 Mar 2023 23:37

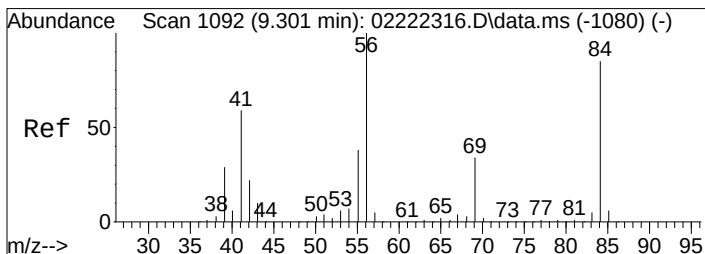
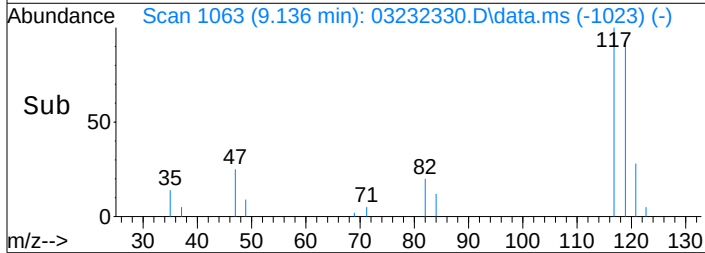
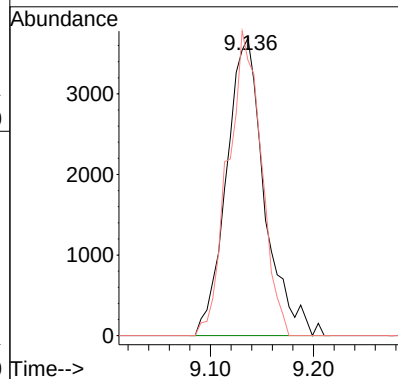
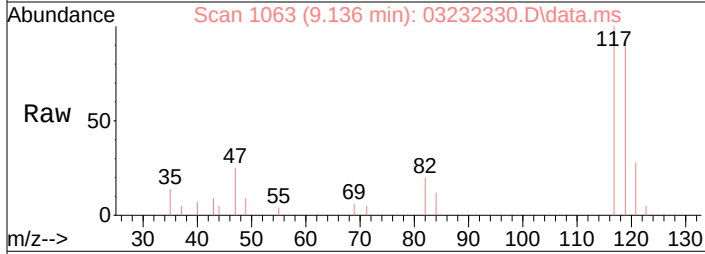
Tgt Ion: 78 Resp: 47236
 Ion Ratio Lower Upper
 78 100
 77 24.0 3.7 43.7





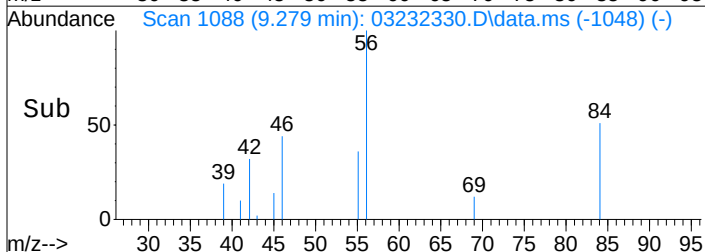
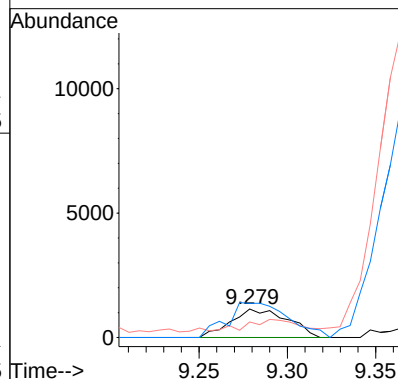
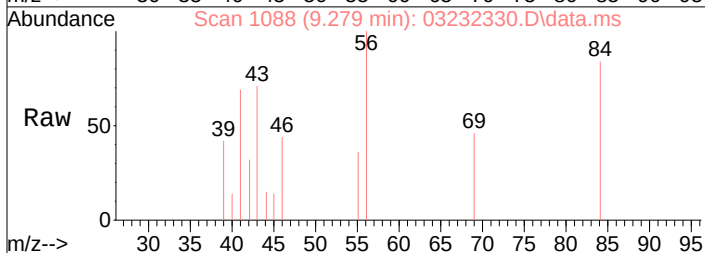
#42
Carbon Tetrachloride
Concen: 0.30 ng
RT: 9.14 min Scan# 1063
Delta R.T. -0.023 min
Lab File: 03232330.D
Acq: 23 Mar 2023 23:37

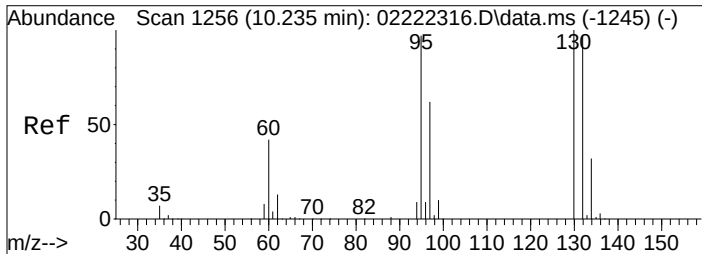
Tgt Ion: 117 Resp: 9494
Ion Ratio Lower Upper
117 100
119 89.8 75.7 115.7



#43
Cyclohexane
Concen: 0.08 ng
RT: 9.28 min Scan# 1088
Delta R.T. -0.023 min
Lab File: 03232330.D
Acq: 23 Mar 2023 23:37

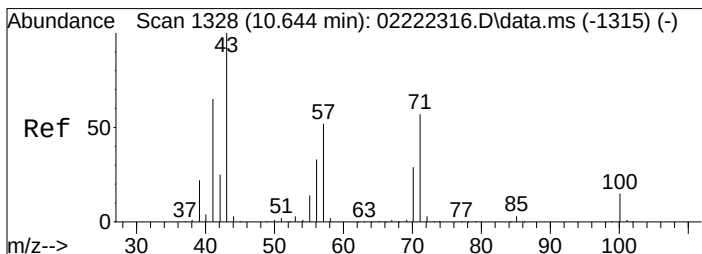
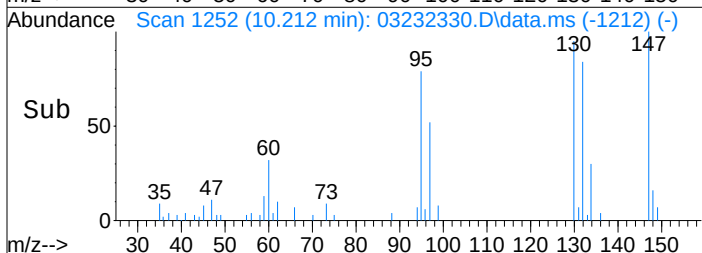
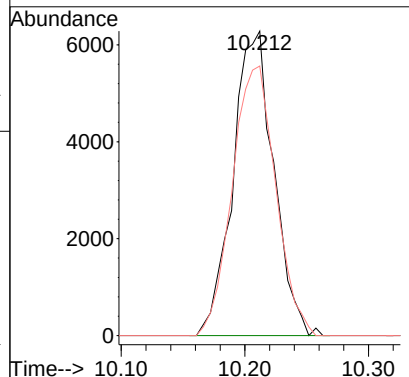
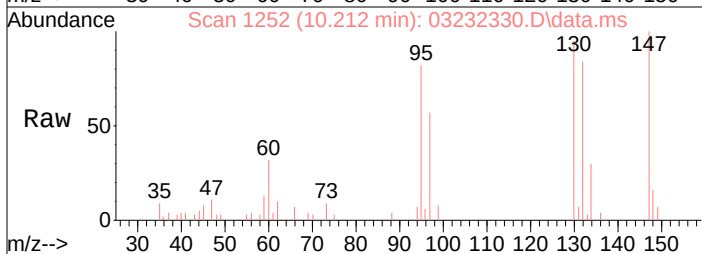
Tgt Ion: 84 Resp: 2552
Ion Ratio Lower Upper
84 100
69 62.0 20.0 60.0#
56 132.2 98.5 138.5





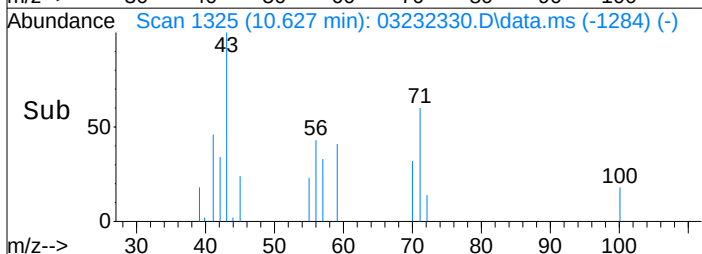
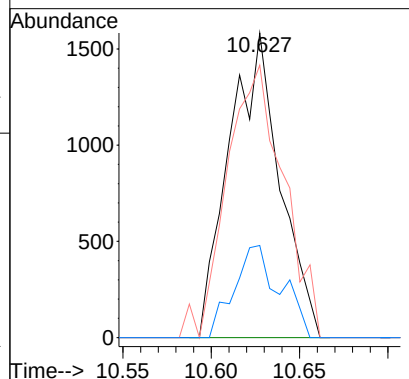
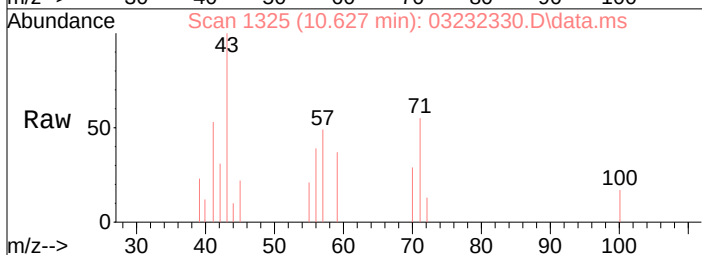
#47
 Trichloroethene
 Concen: 0.59 ng
 RT: 10.21 min Scan# 1252
 Delta R.T. -0.023 min
 Lab File: 03232330.D
 Acq: 23 Mar 2023 23:37

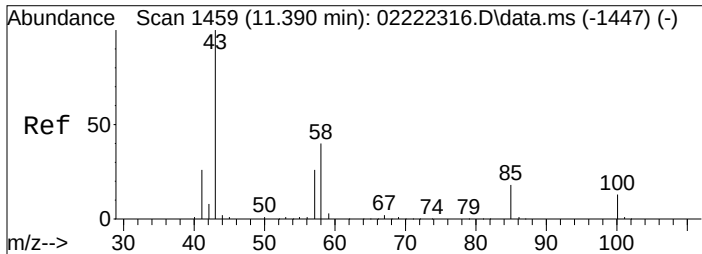
Tgt Ion	130	Resp	14427
Ion Ratio	Lower	Upper	
130	100		
132	94.5	76.3	116.3



#51
 n-Heptane
 Concen: 0.16 ng
 RT: 10.63 min Scan# 1325
 Delta R.T. -0.017 min
 Lab File: 03232330.D
 Acq: 23 Mar 2023 23:37

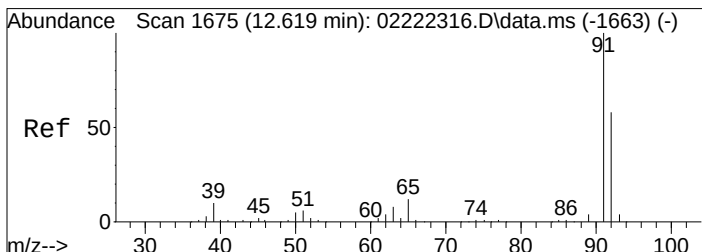
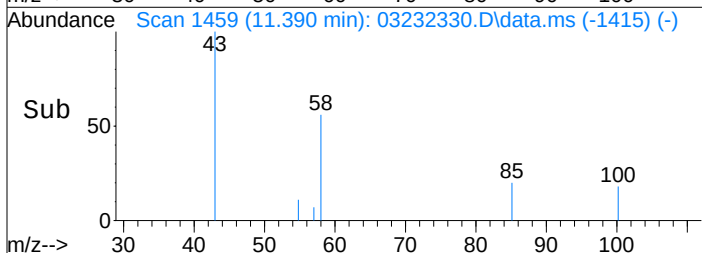
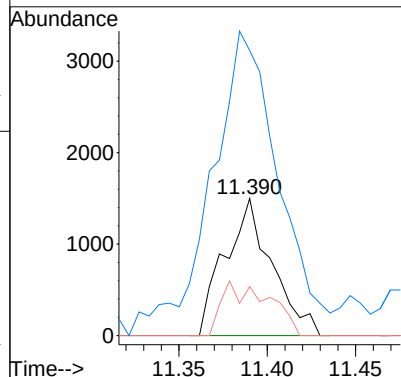
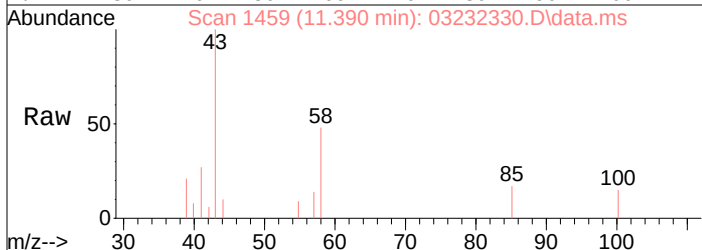
Tgt Ion	71	Resp	3168
Ion Ratio	Lower	Upper	
71	100		
57	99.6	71.7	111.7
100	27.5	5.8	45.8





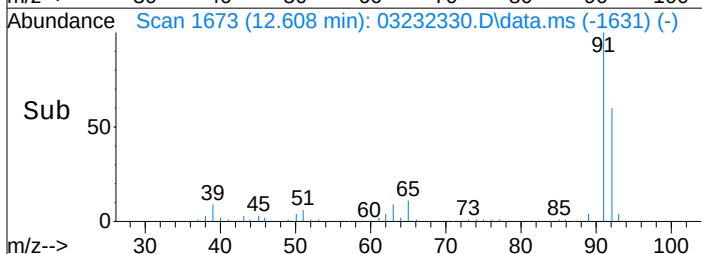
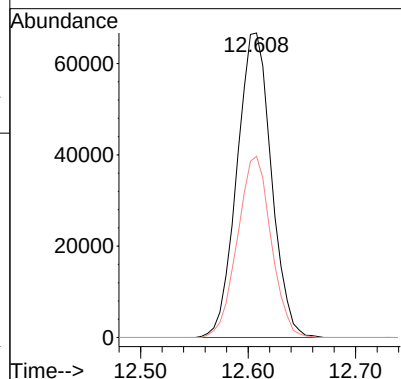
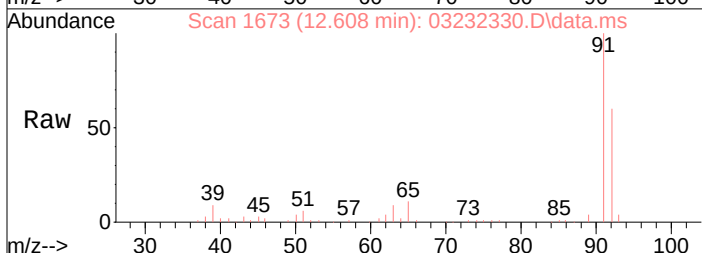
#53
 4-Methyl-2-pentanone
 Concen: 0.15 ng
 RT: 11.39 min Scan# 1459
 Delta R.T. 0.000 min
 Lab File: 03232330.D
 Acq: 23 Mar 2023 23:37

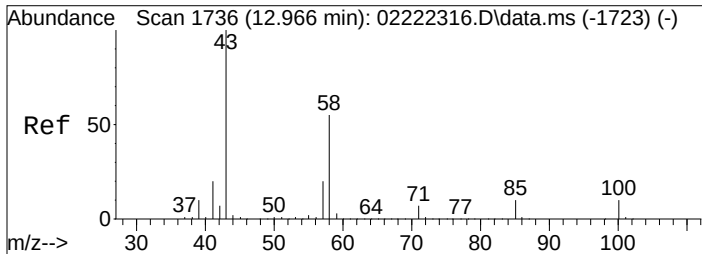
Tgt Ion:	58	Resp:	2770
Ion Ratio	Lower	Upper	
58	100		
85	39.4	38.6	58.0
43	317.3	202.2	303.2#



#58
 Toluene
 Concen: 1.55 ng
 RT: 12.61 min Scan# 1673
 Delta R.T. -0.011 min
 Lab File: 03232330.D
 Acq: 23 Mar 2023 23:37

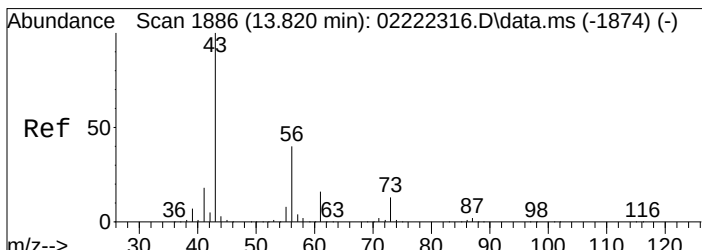
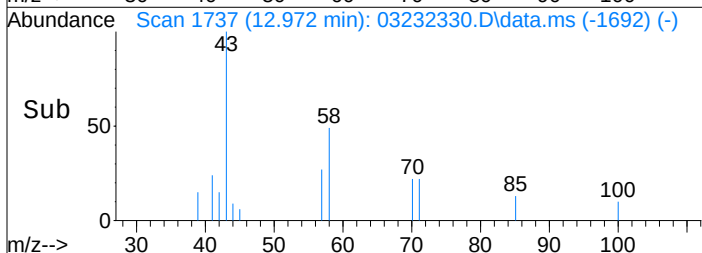
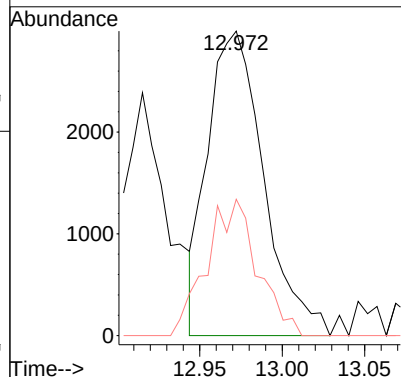
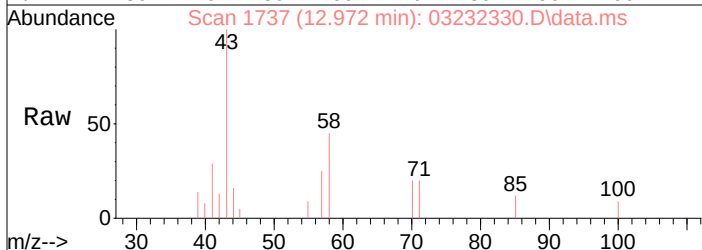
Tgt Ion:	91	Resp:	148223
Ion Ratio	Lower	Upper	
91	100		
92	58.3	38.0	78.0





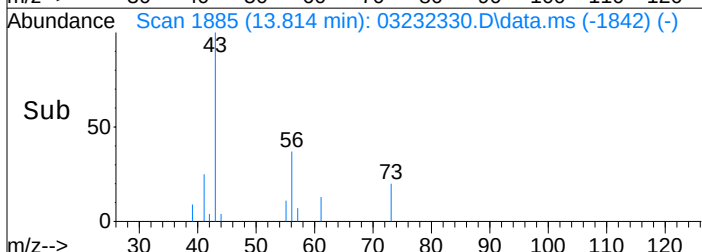
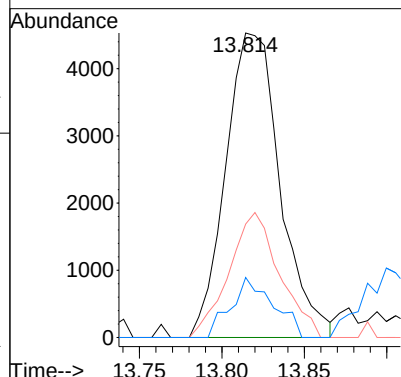
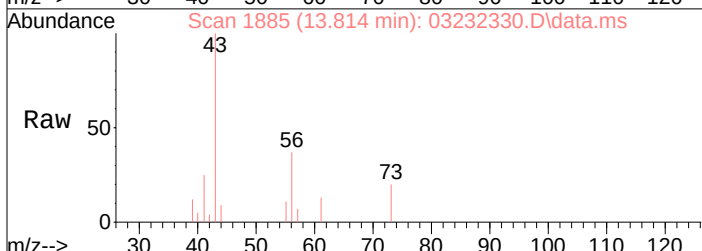
#59
 2-Hexanone
 Concen: 0.15 ng
 RT: 12.97 min Scan# 1737
 Delta R.T. 0.006 min
 Lab File: 03232330.D
 Acq: 23 Mar 2023 23:37

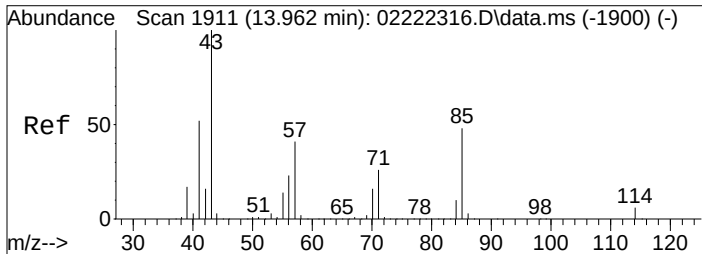
Tgt Ion: 43 Resp: 7073
 Ion Ratio Lower Upper
 43 100
 58 40.6 34.5 74.5



#62
 n-Butyl Acetate
 Concen: 0.20 ng
 RT: 13.81 min Scan# 1885
 Delta R.T. -0.006 min
 Lab File: 03232330.D
 Acq: 23 Mar 2023 23:37

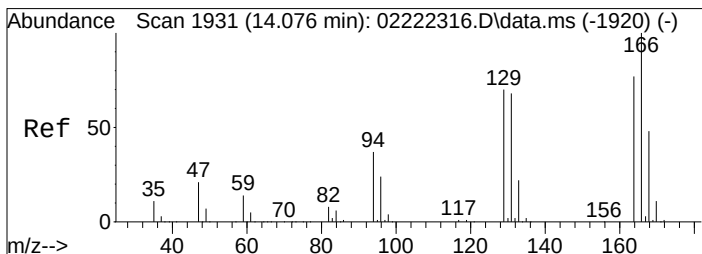
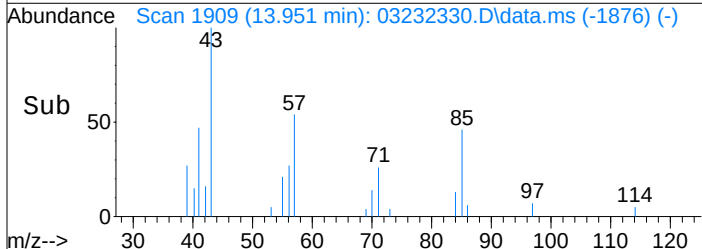
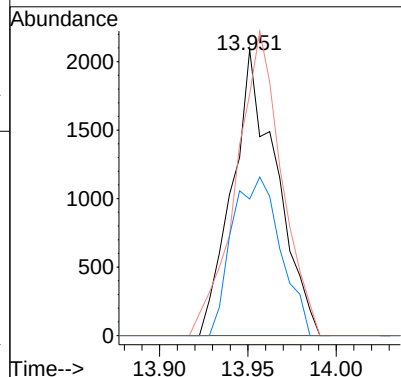
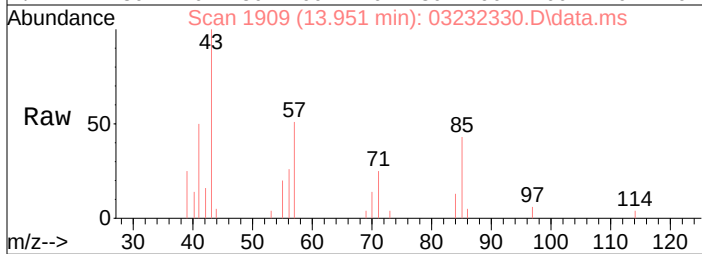
Tgt Ion: 43 Resp: 10405
 Ion Ratio Lower Upper
 43 100
 56 38.1 20.0 60.0
 73 15.3 0.0 33.2





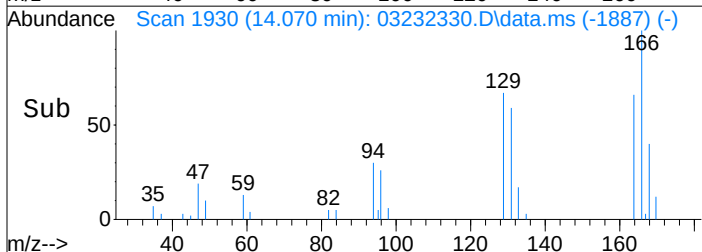
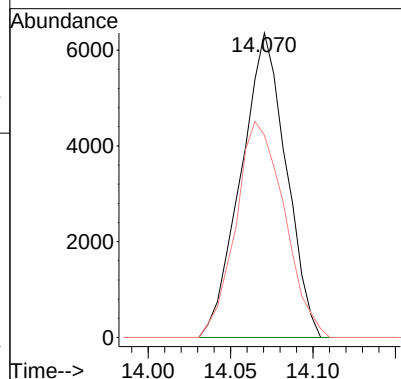
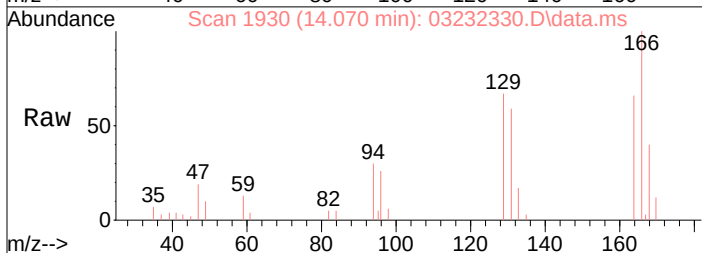
#63
n-Octane
Concen: 0.19 ng
RT: 13.95 min Scan# 1909
Delta R.T. -0.011 min
Lab File: 03232330.D
Acq: 23 Mar 2023 23:37

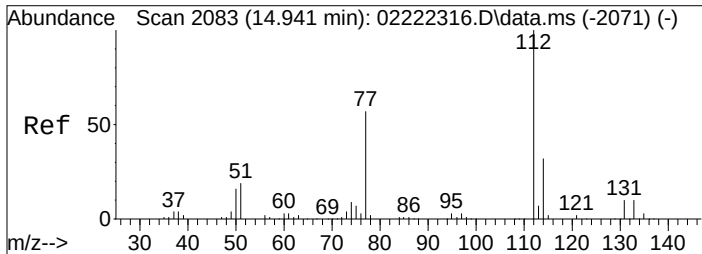
Tgt Ion:	57	Resp:	3626
Ion Ratio		Lower	Upper
57	100		
85	109.8	94.1	141.1
71	61.0	52.6	79.0



#64
Tetrachloroethene
Concen: 0.42 ng
RT: 14.07 min Scan# 1930
Delta R.T. -0.006 min
Lab File: 03232330.D
Acq: 23 Mar 2023 23:37

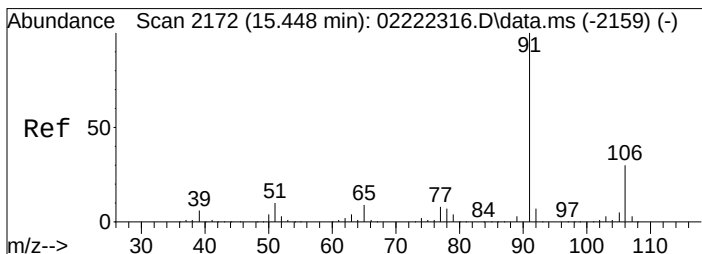
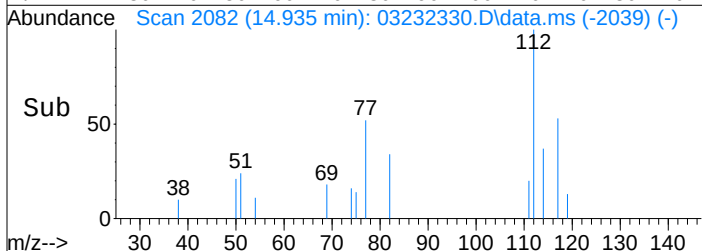
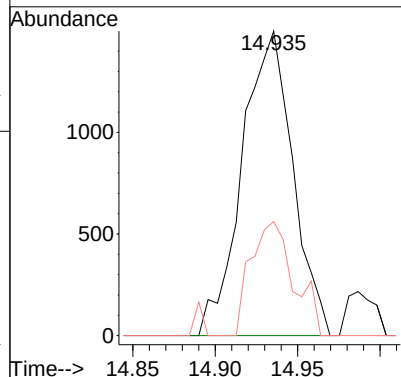
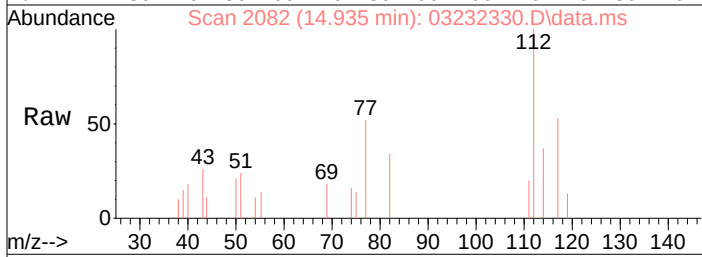
Tgt Ion:	166	Resp:	12100
Ion Ratio		Lower	Upper
166	100		
164	76.5	57.3	97.3





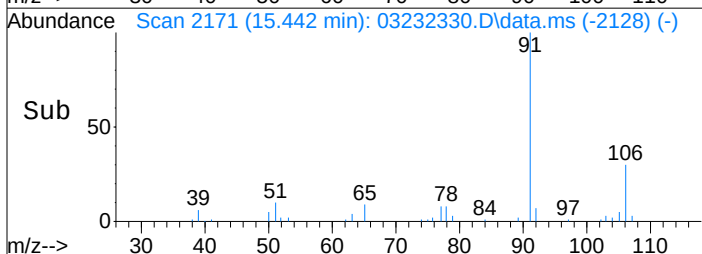
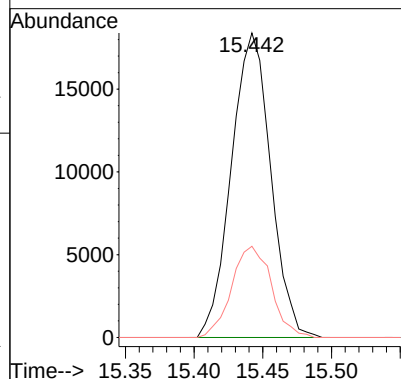
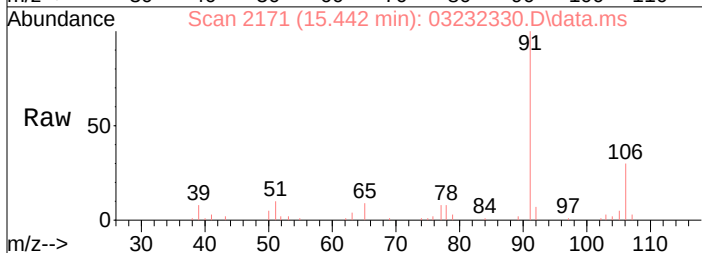
#65
Chlorobenzene
Concen: 0.05 ng
RT: 14.94 min Scan# 2082
Delta R.T. -0.006 min
Lab File: 03232330.D
Acq: 23 Mar 2023 23:37

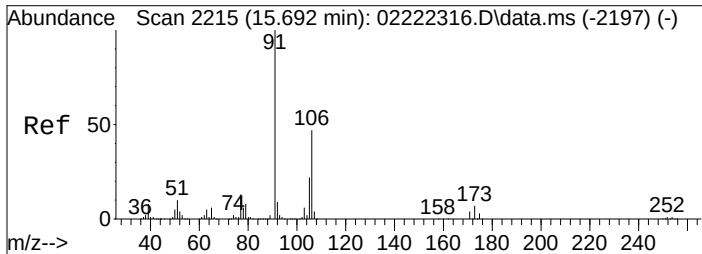
Tgt Ion: 112 Resp: 3209
Ion Ratio Lower Upper
112 100
114 31.8 12.1 52.1



#66
Ethylbenzene
Concen: 0.32 ng
RT: 15.44 min Scan# 2171
Delta R.T. -0.006 min
Lab File: 03232330.D
Acq: 23 Mar 2023 23:37

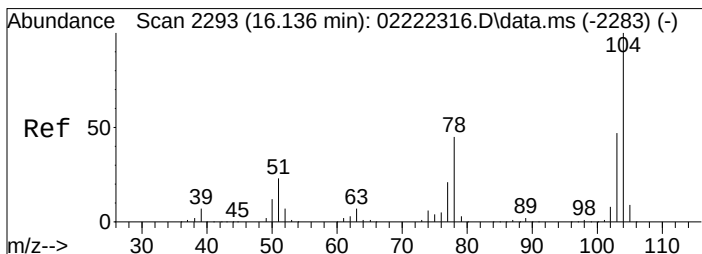
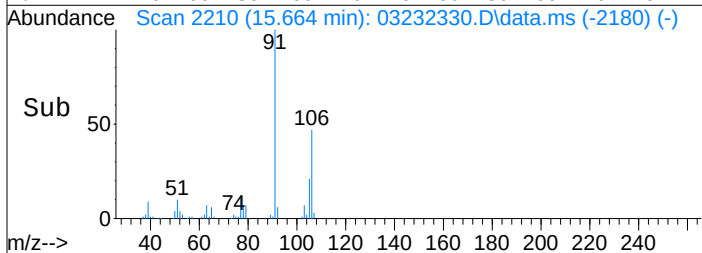
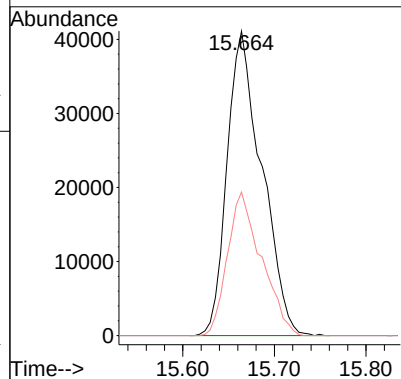
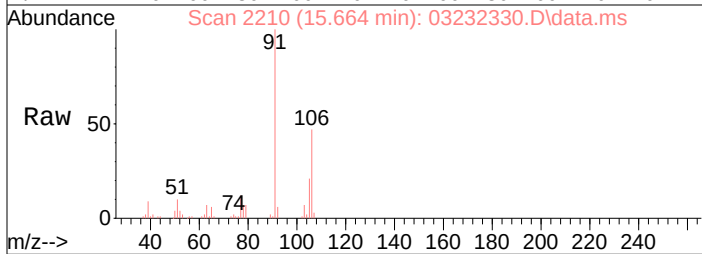
Tgt Ion: 91 Resp: 36662
Ion Ratio Lower Upper
91 100
106 30.3 10.4 50.4





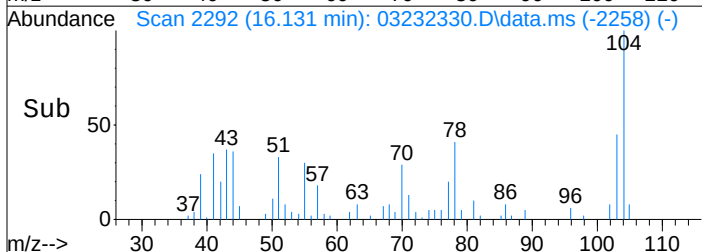
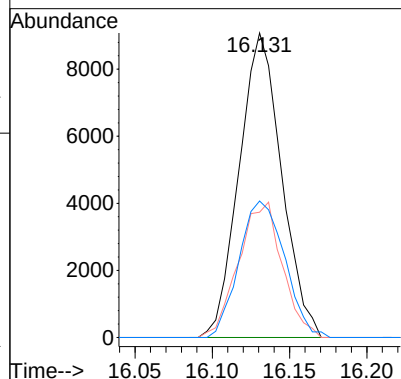
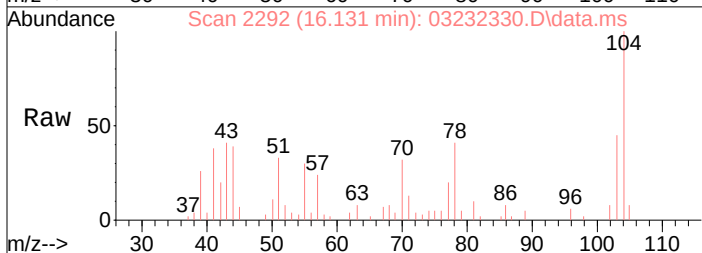
#67
m- & p-Xylenes
Concen: 1.18 ng
RT: 15.66 min Scan# 2210
Delta R.T. -0.028 min
Lab File: 03232330.D
Acq: 23 Mar 2023 23:37

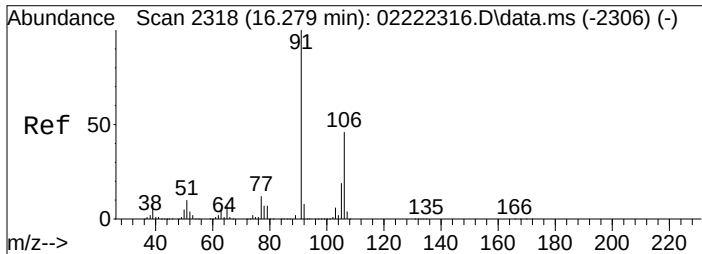
Tgt Ion: 91 Resp: 108111
Ion Ratio Lower Upper
91 100
106 46.2 26.2 66.2



#69
Styrene
Concen: 0.28 ng
RT: 16.13 min Scan# 2292
Delta R.T. -0.006 min
Lab File: 03232330.D
Acq: 23 Mar 2023 23:37

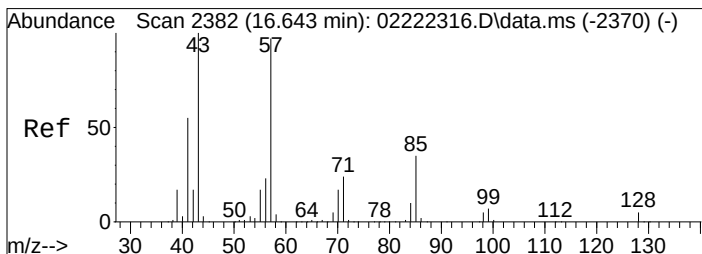
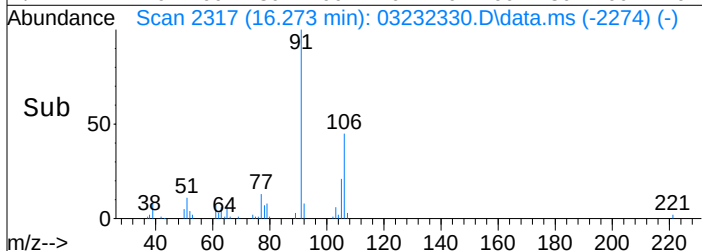
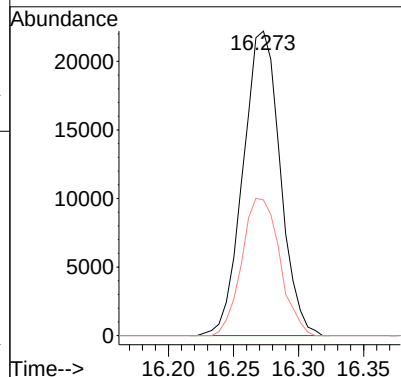
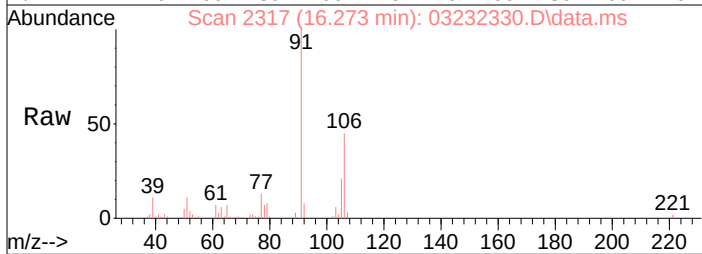
Tgt Ion: 104 Resp: 17335
Ion Ratio Lower Upper
104 100
78 45.8 24.7 64.7
103 48.3 27.8 67.8





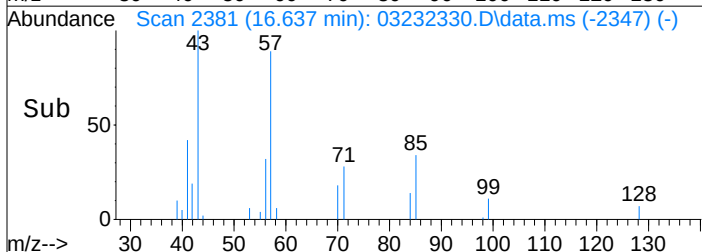
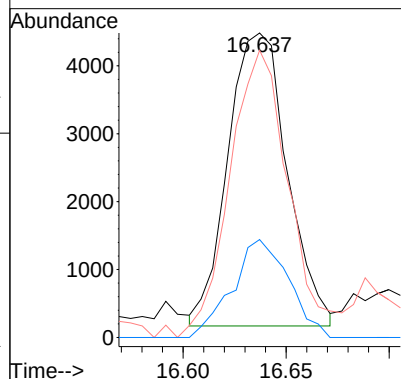
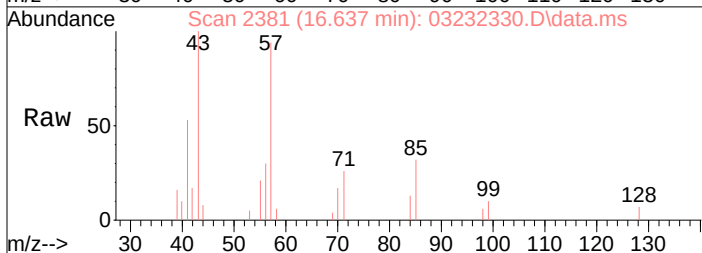
#70
o-Xylene
Concen: 0.50 ng
RT: 16.27 min Scan# 2317
Delta R.T. -0.006 min
Lab File: 03232330.D
Acq: 23 Mar 2023 23:37

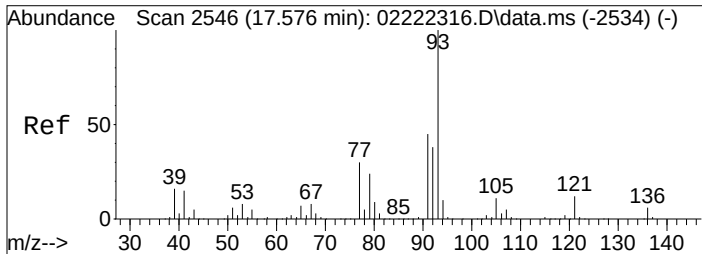
Tgt Ion: 91 Resp: 44089
Ion Ratio Lower Upper
91 100
106 46.0 25.4 65.4



#71
n-Nonane
Concen: 0.20 ng
RT: 16.64 min Scan# 2381
Delta R.T. -0.006 min
Lab File: 03232330.D
Acq: 23 Mar 2023 23:37

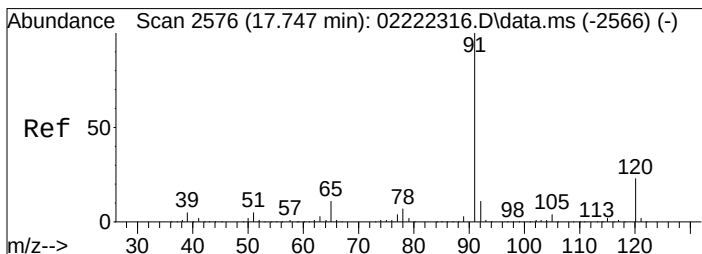
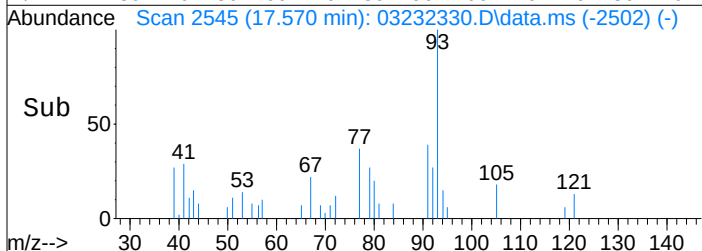
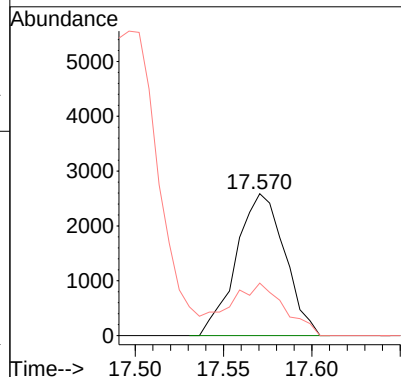
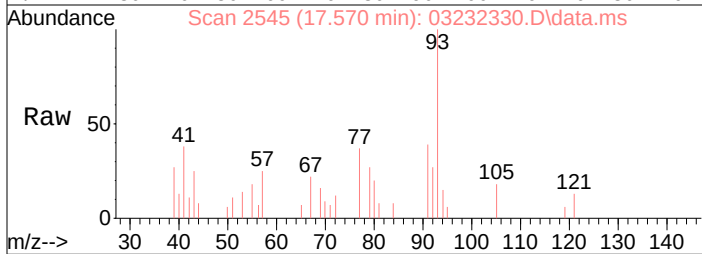
Tgt Ion: 43 Resp: 8635
Ion Ratio Lower Upper
43 100
57 98.2 74.2 114.2
85 31.8 14.2 54.2





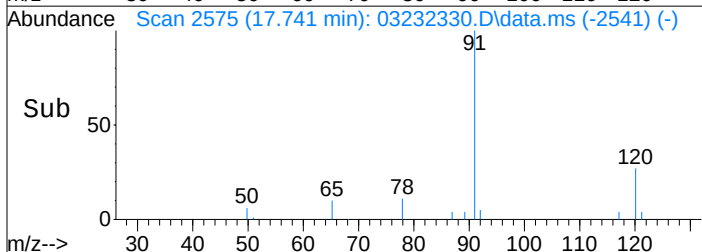
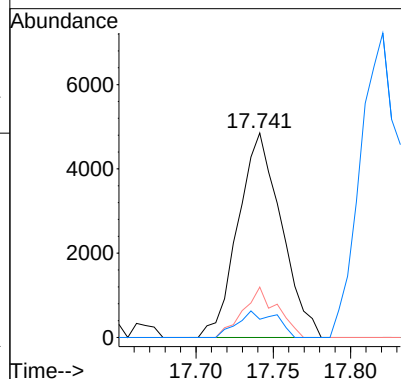
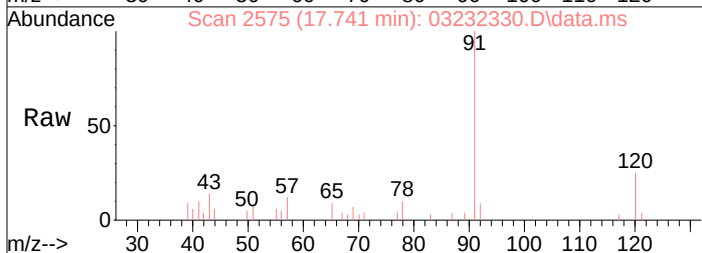
#75
 alpha-Pinene
 Concen: 0.10 ng
 RT: 17.57 min Scan# 2545
 Delta R.T. -0.006 min
 Lab File: 03232330.D
 Acq: 23 Mar 2023 23:37

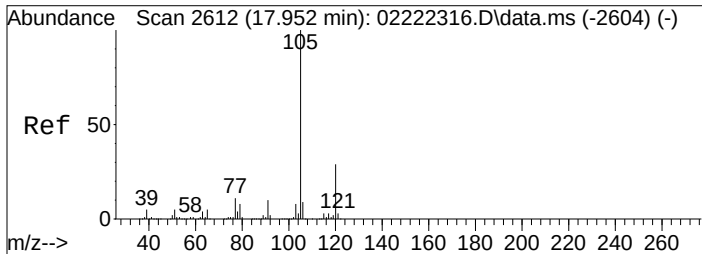
Tgt Ion: 93 Resp: 4948
 Ion Ratio Lower Upper
 93 100
 77 36.9 11.1 51.1



#76
 n-Propylbenzene
 Concen: 0.07 ng
 RT: 17.74 min Scan# 2575
 Delta R.T. -0.006 min
 Lab File: 03232330.D
 Acq: 23 Mar 2023 23:37

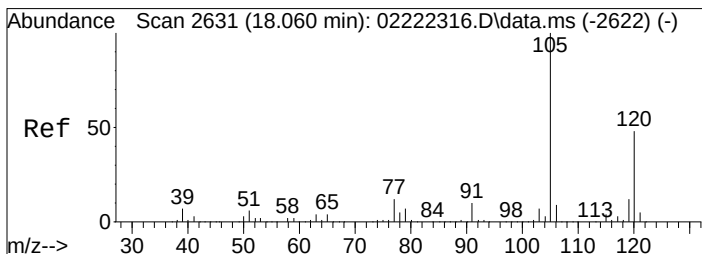
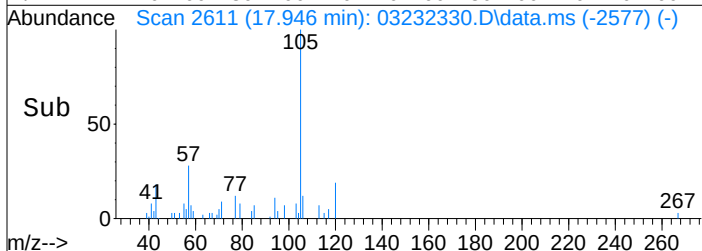
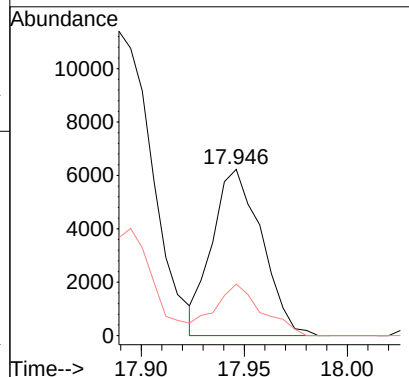
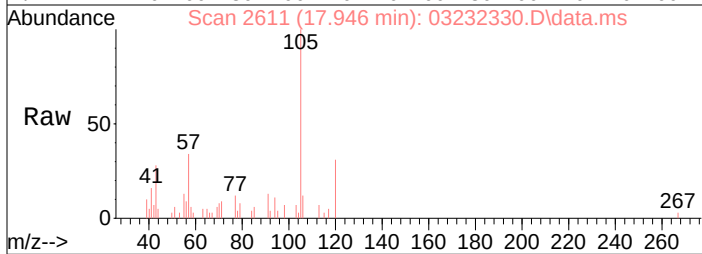
Tgt Ion: 91 Resp: 9466
 Ion Ratio Lower Upper
 91 100
 120 19.3 2.7 42.7
 65 11.5 0.0 30.7





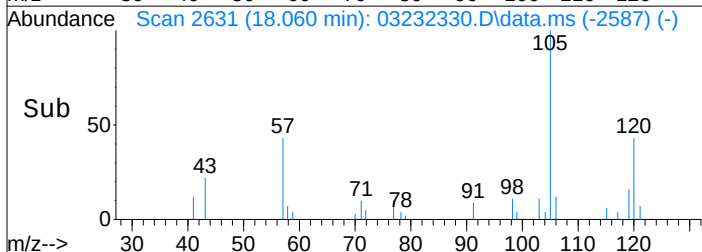
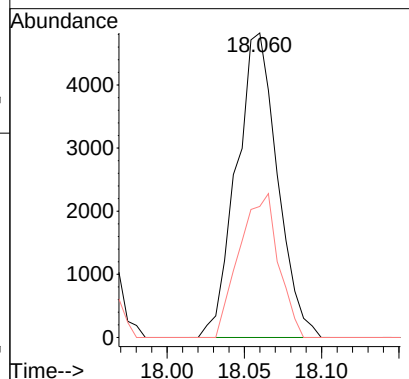
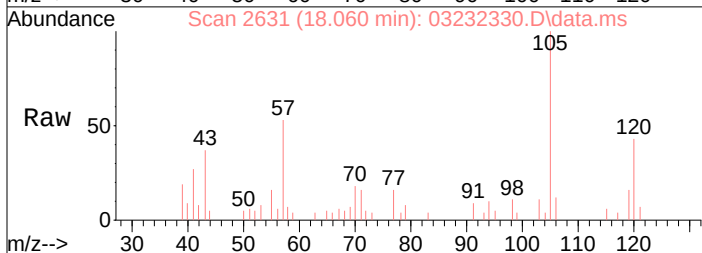
#78
 4-Ethyltoluene
 Concen: 0.10 ng
 RT: 17.95 min Scan# 2611
 Delta R.T. -0.006 min
 Lab File: 03232330.D
 Acq: 23 Mar 2023 23:37

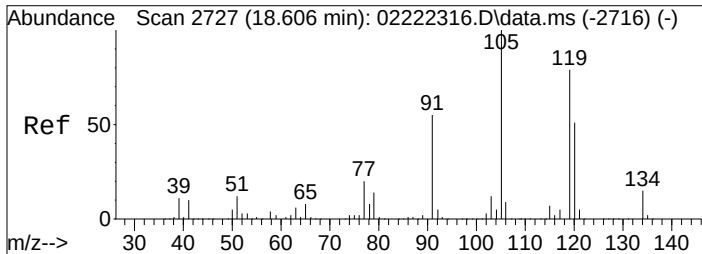
Tgt Ion:	105	Resp:	10385
Ion Ratio		Lower	Upper
105	100		
120	29.6	9.1	49.1



#79
 1,3,5-Trimethylbenzene
 Concen: 0.10 ng
 RT: 18.06 min Scan# 2631
 Delta R.T. 0.000 min
 Lab File: 03232330.D
 Acq: 23 Mar 2023 23:37

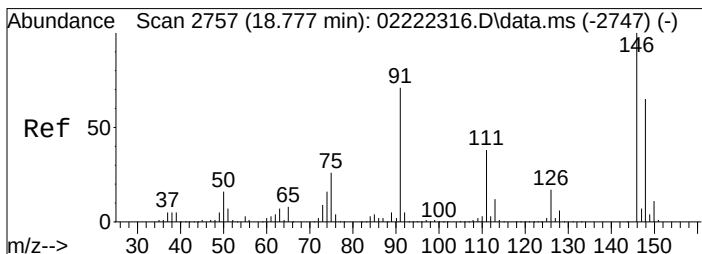
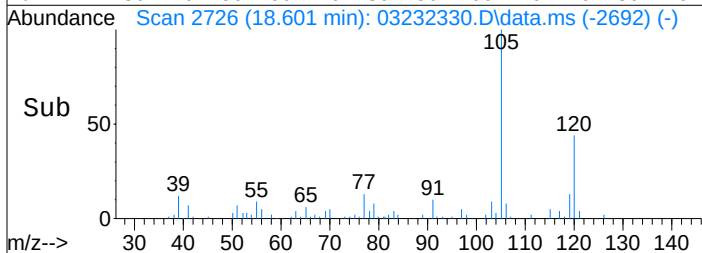
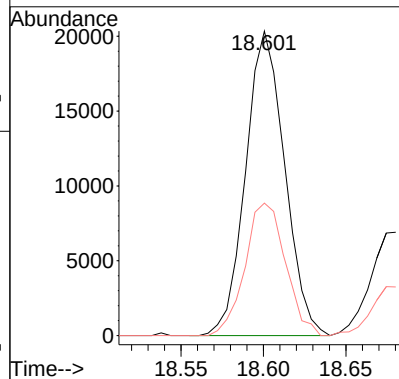
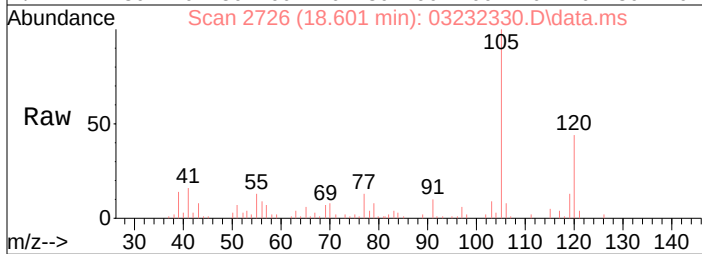
Tgt Ion:	105	Resp:	8921
Ion Ratio		Lower	Upper
105	100		
120	45.1	28.4	68.4





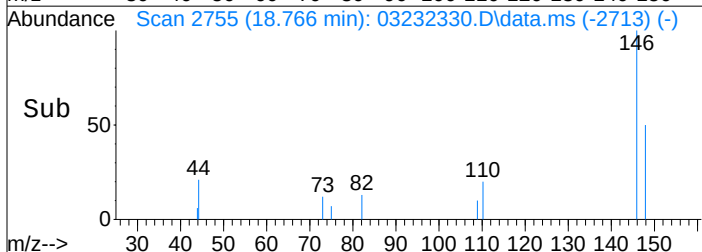
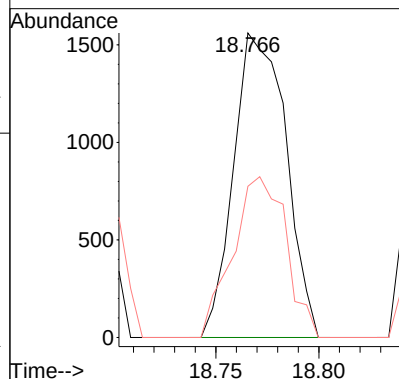
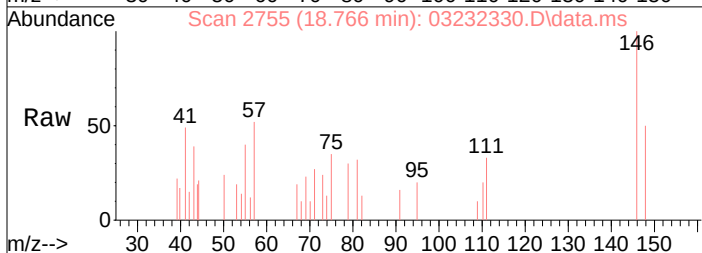
#82
 1,2,4-Trimethylbenzene
 Concen: 0.38 ng
 RT: 18.60 min Scan# 2726
 Delta R.T. -0.006 min
 Lab File: 03232330.D
 Acq: 23 Mar 2023 23:37

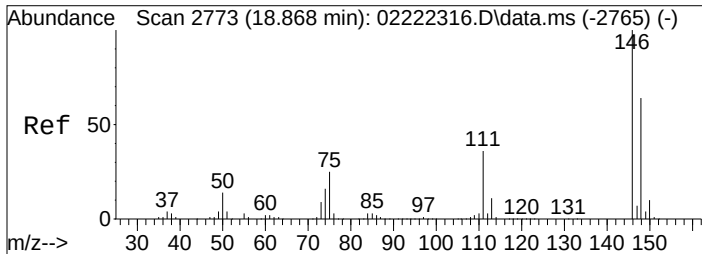
Tgt Ion:105 Resp: 33582
 Ion Ratio Lower Upper
 105 100
 120 45.0 32.8 72.8



#85
 1,3-Dichlorobenzene
 Concen: 0.05 ng
 RT: 18.77 min Scan# 2755
 Delta R.T. -0.011 min
 Lab File: 03232330.D
 Acq: 23 Mar 2023 23:37

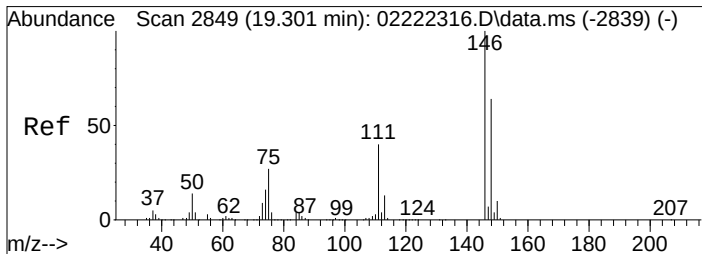
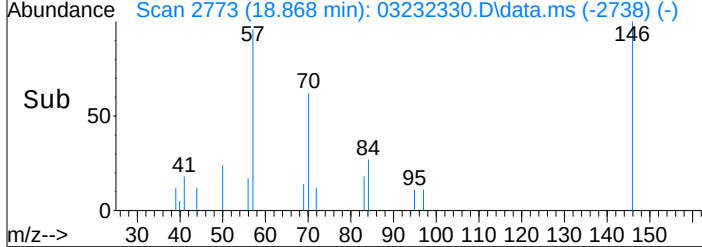
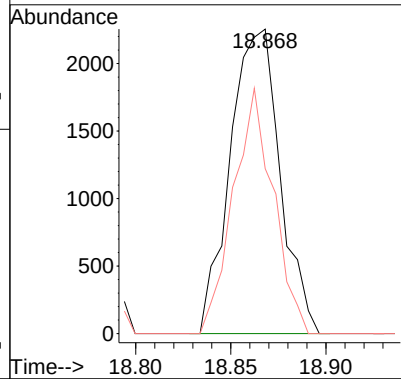
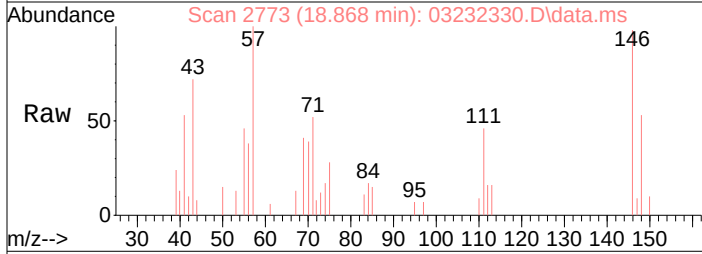
Tgt Ion:146 Resp: 2752
 Ion Ratio Lower Upper
 146 100
 148 53.7 44.4 84.4





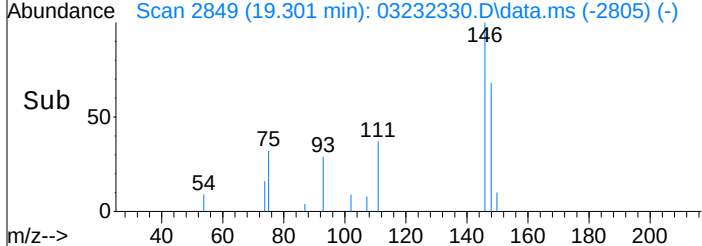
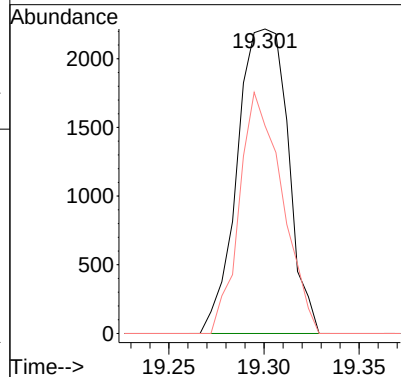
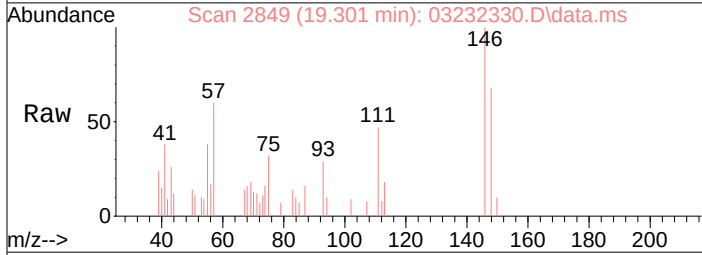
#86
 1,4-Dichlorobenzene
 Concen: 0.07 ng
 RT: 18.87 min Scan# 2773
 Delta R.T. 0.000 min
 Lab File: 03232330.D
 Acq: 23 Mar 2023 23:37

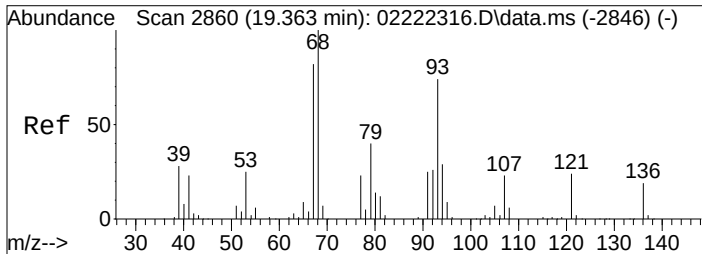
Tgt Ion	Ratio	Resp	Lower	Upper
146	100	4112		
148	64.5	44.7		84.7



#90
 1,2-Dichlorobenzene
 Concen: 0.08 ng
 RT: 19.30 min Scan# 2849
 Delta R.T. 0.000 min
 Lab File: 03232330.D
 Acq: 23 Mar 2023 23:37

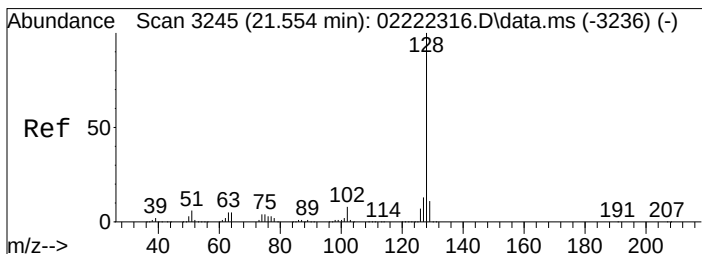
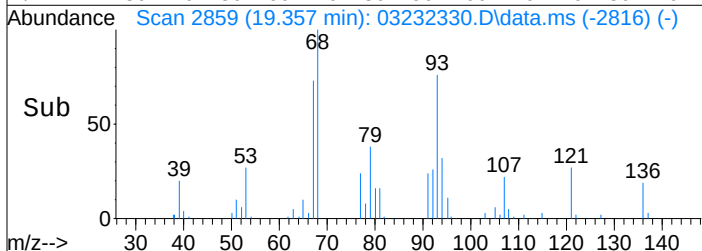
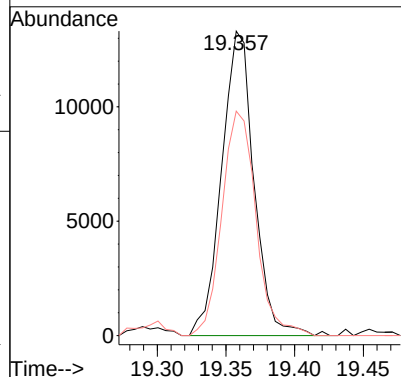
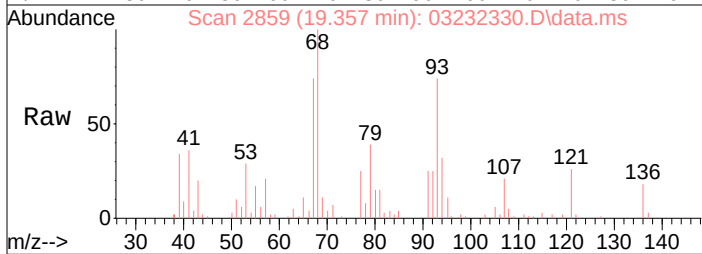
Tgt Ion	Ratio	Resp	Lower	Upper
146	100	4109		
148	67.0	44.4		84.4





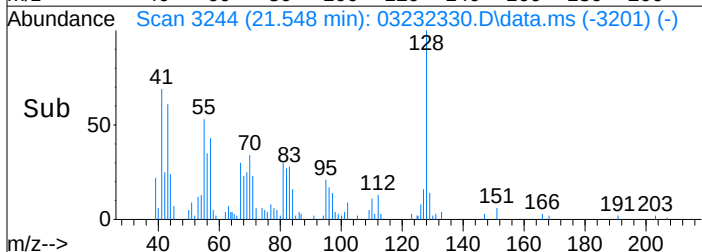
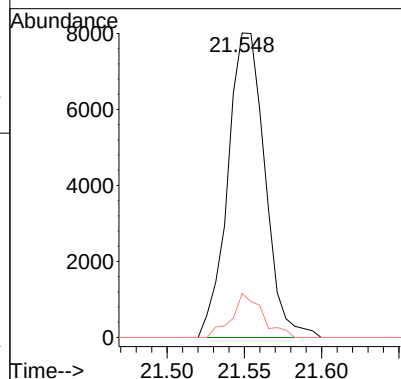
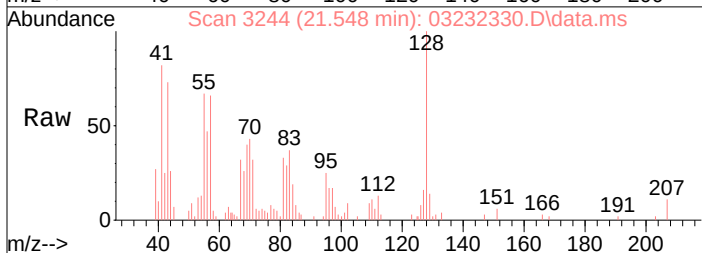
#91
d-Limonene
Concen: 0.72 ng
RT: 19.36 min Scan# 2859
Delta R.T. -0.006 min
Lab File: 03232330.D
Acq: 23 Mar 2023 23:37

Tgt Ion: 68 Resp: 21824
Ion Ratio Lower Upper
68 100
93 77.5 54.8 94.8



#95
Naphthalene
Concen: 0.14 ng
RT: 21.55 min Scan# 3244
Delta R.T. -0.006 min
Lab File: 03232330.D
Acq: 23 Mar 2023 23:37

Tgt Ion: 128 Resp: 13393
Ion Ratio Lower Upper
128 100
129 12.1 0.0 30.9



Data File : I:\MS13\DATA\2023_03\23\03232330.D
 Acq On : 23 Mar 2023 23:37
 Sample : P2301250-006 (1000mL)
 Misc : S35-01202301

Vial: 13
 Operator: TZ
 Inst : MS13

Tz 3/27/23

Quant Time: Mar 27 15:59:48 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.31	130	242209	12.500	ng	-0.01
16) 1,4-Difluorobenzene (C_2)	9.37	114	1070417	12.500	ng	-0.01
19) Chlorobenzene-d5 (C_3)	14.87	54	194912	12.500	ng	0.00

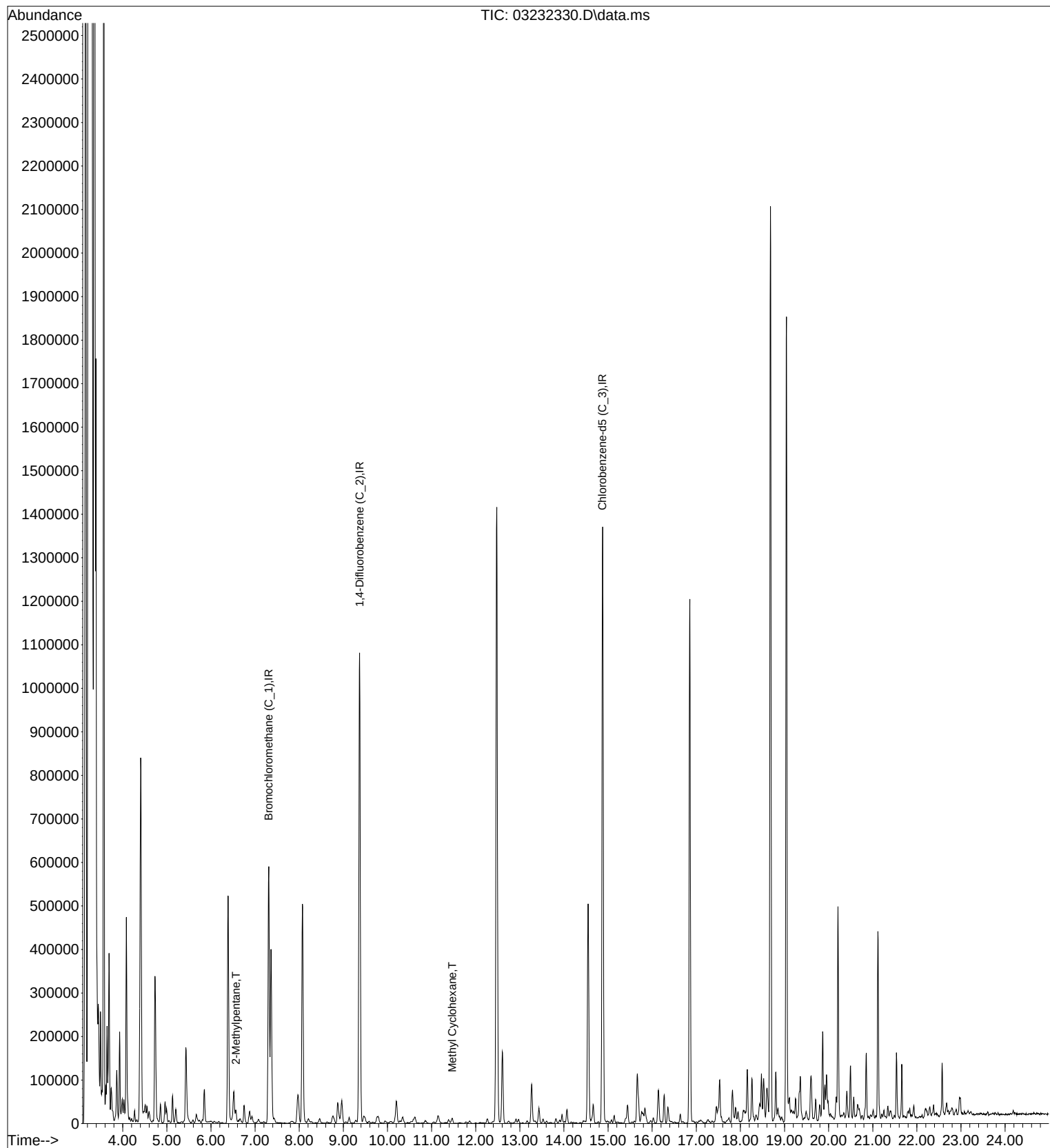
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	0.00	85	0	N.D.	d	
3) 1,1,1,2-Tetrafluoroeth...	0.00	83	0	N.D.	d	
4) 1,1-Difluoroethane	0.00	65	0	N.D.	d	
5) Chlorodifluoromethane ...	0.00	67	0	N.D.	d	
6) 1-Chloro-1,1-Difluoroe...	3.57	65	252	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	4.58	83	610	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	0.00	43	0	N.D.	d	
12) 2-Methylpentane	6.57	71	6436	0.380	ng	# 74
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	9.13	84	1387	N.D.		
17) 2,3-Dimethylpentane	9.59	56	1898	N.D.		
18) Dibromomethane	9.85	174	362	N.D.		
20) Methyl Cyclohexane	11.47	55	5225	0.161	ng	# 74
21) 1,3-Dichloropropane	12.61	76	500	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	15.21	91	423	N.D.		
24) 1,2,3-Trichloropropane	0.00	75	0	N.D.	d	
25) Bromobenzene	17.06	77	572	N.D.		
26) 2-Chlorotoluene	17.66	91	401	N.D.		
27) 4-Chlorotoluene	0.00	91	0	N.D.	d	
28) Indane	19.39	117	4550	N.D.		
29) Indene	19.51	115	1484	N.D.		
30) 1,2,4,5-Tetramethylben...	20.64	119	3435	N.D.		
31) 1,2,3,4-Tetramethylben...	20.69	119	4873	N.D.		
32) 1,2,3,5-Tetramethylben...	21.14	119	4209	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\23\03232330.D
Acq On : 23 Mar 2023 23:37
Sample : P2301250-006 (1000mL)
Misc : S35-01202301

Vial: 13
Operator: TZ
Inst : MS13

Quant Time: Mar 27 15:59:48 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG5

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01284

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -2.88 Final Pressure (psig): 3.72

Container Dilution Factor: 1.56

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.6	0.83	0.14	0.53	0.17	0.027	
74-87-3	Chloromethane	ND	0.33	0.13	ND	0.16	0.065	
75-01-4	Vinyl Chloride	0.22	0.17	0.089	0.086	0.067	0.035	
74-83-9	Bromomethane	ND	0.33	0.12	ND	0.084	0.030	
75-00-3	Chloroethane	ND	0.33	0.10	ND	0.12	0.039	
67-64-1	Acetone	44	8.2	1.9	19	3.5	0.79	
75-69-4	Trichlorofluoromethane	1.1	0.81	0.13	0.20	0.14	0.022	
75-35-4	1,1-Dichloroethene	ND	0.17	0.12	ND	0.043	0.029	
75-09-2	Methylene Chloride	6.4	0.83	0.23	1.8	0.24	0.067	
76-13-1	Trichlorotrifluoroethane	0.49	0.84	0.12	0.065	0.11	0.015	J
75-15-0	Carbon Disulfide	1.8	1.7	0.25	0.58	0.54	0.080	
156-60-5	trans-1,2-Dichloroethene	ND	0.17	0.12	ND	0.043	0.029	
75-34-3	1,1-Dichloroethane	22	0.17	0.12	5.6	0.042	0.030	
1634-04-4	Methyl tert-Butyl Ether	ND	0.84	0.098	ND	0.23	0.027	
78-93-3	2-Butanone (MEK)	4.5	1.6	0.17	1.5	0.55	0.058	
156-59-2	cis-1,2-Dichloroethene	ND	0.17	0.12	ND	0.043	0.030	
67-66-3	Chloroform	9.1	0.17	0.11	1.9	0.035	0.023	
107-06-2	1,2-Dichloroethane	ND	0.17	0.092	ND	0.042	0.023	
71-55-6	1,1,1-Trichloroethane	300	1.7	1.0	55	0.31	0.19	D
71-43-2	Benzene	5.0	0.17	0.12	1.6	0.054	0.038	
56-23-5	Carbon Tetrachloride	2.2	0.17	0.12	0.34	0.027	0.018	
110-82-7	Cyclohexane	2.2	1.6	0.23	0.64	0.48	0.068	
78-87-5	1,2-Dichloropropane	ND	0.17	0.10	ND	0.037	0.022	
75-27-4	Bromodichloromethane	0.83	0.17	0.12	0.12	0.026	0.018	
79-01-6	Trichloroethene	9.9	0.17	0.11	1.8	0.032	0.021	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG5

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01284

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -2.88 Final Pressure (psig): 3.72

Container Dilution Factor: 1.56

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.84	0.13	ND	0.19	0.029	
108-10-1	4-Methyl-2-pentanone	0.81	1.7	0.11	0.20	0.42	0.028	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.80	0.17	ND	0.18	0.038	
79-00-5	1,1,2-Trichloroethane	ND	0.17	0.084	ND	0.031	0.015	
108-88-3	Toluene	16	0.83	0.10	4.1	0.22	0.027	
591-78-6	2-Hexanone	ND	1.7	0.10	ND	0.42	0.025	
124-48-1	Dibromochloromethane	ND	0.17	0.11	ND	0.020	0.013	
106-93-4	1,2-Dibromoethane	ND	0.17	0.097	ND	0.022	0.013	
127-18-4	Tetrachloroethene	21	0.17	0.11	3.1	0.025	0.016	
108-90-7	Chlorobenzene	0.17	0.83	0.11	0.037	0.18	0.024	J
100-41-4	Ethylbenzene	1.7	0.83	0.12	0.39	0.19	0.027	
179601-23-1	m,p-Xylenes	7.3	1.7	0.22	1.7	0.40	0.050	
75-25-2	Bromoform	ND	0.84	0.17	ND	0.082	0.017	
100-42-5	Styrene	0.71	0.83	0.13	0.17	0.19	0.032	J
95-47-6	o-Xylene	2.6	0.83	0.12	0.60	0.19	0.028	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.17	0.12	ND	0.025	0.017	
98-82-8	Cumene	0.19	0.84	0.12	0.038	0.17	0.024	J
541-73-1	1,3-Dichlorobenzene	ND	0.83	0.12	ND	0.14	0.021	
106-46-7	1,4-Dichlorobenzene	0.20	0.83	0.13	0.033	0.14	0.021	J
95-50-1	1,2-Dichlorobenzene	0.20	0.84	0.12	0.033	0.14	0.021	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.7	0.16	ND	0.18	0.016	
120-82-1	1,2,4-Trichlorobenzene	ND	1.7	0.20	ND	0.23	0.027	
79-20-9	Methyl Acetate	ND	0.78	0.37	ND	0.26	0.12	X
108-87-2	Methylcyclohexane	9.6	0.78	0.41	2.4	0.19	0.10	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS13\DATA\2023_03\23\03232331.D
 Acq On : 24 Mar 2023 00:13
 Sample : P2301250-007 (1000mL)
 Misc : S35-01202301

Vial: 14
 Operator: TZ
 Inst : MS13

TZ 3/27/23

Quant Time: Mar 27 11:08:52 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.33	130	246686	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	9.39	114	1087274	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	14.88	54	202509	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.09	65	416026	12.708	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	101.68%
57) Toluene-d8 (SS2)	12.48	98	1234390	11.853	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.80%
73) Bromofluorobenzene (SS3)	16.85	174	450794	11.818	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.56%

Target Compounds

						Qvalue
2) Propene	3.34	42	223	N.D.		
3) Dichlorodifluoromethan...	3.47	85	76177	1.686	ng	99
4) Chloromethane	0.00	50	0	N.D.	d	
5) 1,2-Dichloro-1,1,2,2-t...	3.74	135	2043	0.090	ng	91
6) Vinyl Chloride	3.80	62	4258	0.141	ng	99
7) 1,3-Butadiene	0.00	54	0	N.D.	d	
8) Bromomethane	4.09	94	610	N.D.		
9) Chloroethane	4.27	64	311	N.D.		
10) Ethanol	4.45	45	2581353	147.339	ng	100
11) Acetonitrile	0.00	41	0	N.D.		
12) Acrolein	4.64	56	3386	0.234	ng	94
13) Acetone	4.74	58	422274	28.241	ng	93
14) Trichlorofluoromethane	4.87	101	29103	0.715	ng	95
15) 2-Propanol (Isopropanol)	4.99	45	529652	8.774	ng	100
16) Acrylonitrile	0.00	53	0	N.D.	d	
17) 1,1-Dichloroethene	5.36	96	1526	0.073	ng	91
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.44	84	89342	4.076	ng	93
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	5.68	151	6778	0.317	ng	99
22) Carbon Disulfide	5.70	76	101095	1.165	ng	99
23) trans-1,2-Dichloroethene	6.21	61	594	N.D.		
24) 1,1-Dichloroethane	6.42	63	561658	14.397	ng	100
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.	d	
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	6.77	72	38059	2.867	ng	98
28) cis-1,2-Dichloroethene	7.16	61	536	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	7.38	61	80377	9.209	ng	96
31) n-Hexane	7.38	57	133439	3.972	ng	99
32) Chloroform	7.46	83	232244	5.844	ng	100
34) Tetrahydrofuran (THF)	7.86	72	9018	0.662	ng	# 57
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.20	62	683	N.D.		
38) 1,1,1-Trichloroethane	8.49	97	6879710	191.165	ng	99
39) Isopropyl Acetate	9.39	61	31235	No Calib		
40) 1-Butanol	8.88	56	267600	No Calib	#	
41) Benzene	8.99	78	270401	3.197	ng	98
42) Carbon Tetrachloride	9.15	117	43894m	1.383	ng	
43) Cyclohexane	9.29	84	44017	1.420	ng	94
44) tert-Amyl Methyl Ether	9.68	73	526	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	10.17	83	16599	0.531	ng	# 74
47) Trichloroethene	10.22	130	156711	6.324	ng	99
48) 1,4-Dioxane	0.00	88	0	N.D.	d	
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.	d	
50) Methyl Methacrylate	0.00	100	0	N.D.	d	

Data File : I:\MS13\DATA\2023_03\23\03232331.D
 Acq On : 24 Mar 2023 00:13
 Sample : P2301250-007 (1000mL)
 Misc : S35-01202301

Vial: 14
 Operator: TZ
 Inst : MS13

Quant Time: Mar 27 11:08:52 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

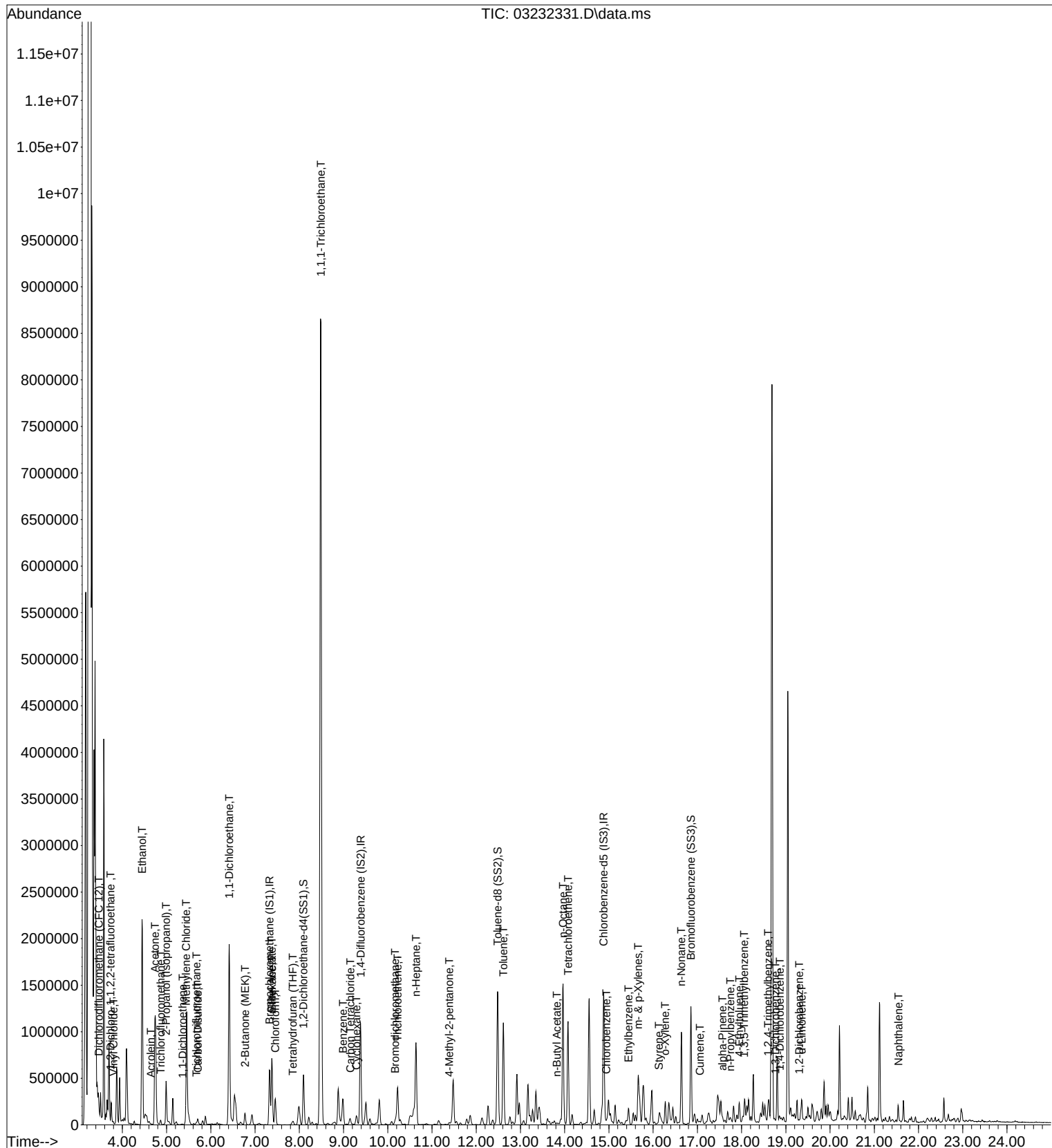
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.64	71	251613	12.293	ng	98
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.39	58	9500	0.521	ng #	84
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.61	91	986696	9.952	ng	99
59) 2-Hexanone	0.00	43	0	N.D.	d	
60) Dibromochloromethane	13.12	129	113	N.D.		
61) 1,2-Dibromoethane	13.43	107	407	N.D.		
62) n-Butyl Acetate	13.82	43	14553	0.266	ng	80
63) n-Octane	13.96	57	296957	15.232	ng	96
64) Tetrachloroethene	14.08	166	409559	13.579	ng	99
65) Chlorobenzene	14.94	112	7045	0.108	ng	92
66) Ethylbenzene	15.44	91	129262	1.093	ng	98
67) m- & p-Xylenes	15.66	91	444515	4.670	ng	98
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.13	104	29905	0.457	ng	97
70) o-Xylene	16.27	91	151643	1.666	ng	100
71) n-Nonane	16.64	43	407803	9.258	ng	97
72) 1,1,2,2-Tetrachloroethane	16.26	83	1338	N.D.		
74) Cumene	17.06	105	13348	0.121	ng	98
75) alpha-Pinene	17.57	93	23181	0.454	ng	96
76) n-Propylbenzene	17.75	91	23545	0.177	ng	97
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	23825	0.224	ng	99
79) 1,3,5-Trimethylbenzene	18.06	105	30814	0.328	ng	96
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.60	105	80802	0.873	ng	88
83) n-Decane	17.10	58	6426	No Calib	#	
84) Benzyl Chloride	18.75	91	1108	N.D.		
85) 1,3-Dichlorobenzene	18.77	146	4195	0.075	ng	97
86) 1,4-Dichlorobenzene	18.86	146	7317	0.126	ng	97
87) sec-Butylbenzene	18.96	105	5318	N.D.		
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.	d	
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.30	146	7019	0.127	ng	88
91) d-Limonene	19.36	68	44441	1.419	ng	98
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.26	58	12343	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	485	N.D.		
95) Naphthalene	21.55	128	22380	0.223	ng	99
96) n-Dodecane	19.20	58	1259	No Calib	#	
97) Hexachlorobutadiene	21.98	225	131	N.D.		
98) Cyclohexanone	15.65	55	18523	No Calib	#	
99) tert-Butylbenzene	0.00	119	0	N.D.	d	
100) n-Butylbenzene	0.00	91	0	N.D.	d	
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\23\03232331.D
Acq On : 24 Mar 2023 00:13
Sample : P2301250-007 (1000mL)
Misc : S35-01202301

Vial: 14
Operator: TZ
Inst : MS13

Quant Time: Mar 27 11:08:52 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\23\03232331.D
 Acq On : 24 Mar 2023 00:13
 Sample : P2301250-007 (1000mL)
 Misc : S35-01202301

Vial: 14
 Operator: TZ
 Inst : MS13

T2 3/27/23

Quant Time: Mar 27 11:08:52 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.33	130	246686	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	9.39	114	1087274	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	14.88	54	202509	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.09	65	416026	12.708	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	101.68%
57) Toluene-d8 (SS2)	12.48	98	1234390	11.853	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.80%
73) Bromofluorobenzene (SS3)	16.85	174	450794	11.818	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.56%

Target Compounds

						Qvalue
3) Dichlorodifluoromethan...	3.47	85	76177	1.686	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	3.74	135	2043	0.090	ng	91
6) Vinyl Chloride	3.80	62	4258	0.141	ng	99
10) Ethanol	4.45	45	2581353	147.339	ng	100
12) Acrolein	4.64	56	3386	0.234	ng	94
13) Acetone	4.74	58	422274	28.241	ng	93
14) Trichlorofluoromethane	4.87	101	29103	0.715	ng	95
15) 2-Propanol (Isopropanol)	4.99	45	529652	8.774	ng	100
17) 1,1-Dichloroethene	5.36	96	1526	0.073	ng	91
19) Methylene Chloride	5.44	84	89342	4.076	ng	93
21) Trichlorotrifluoroethane	5.68	151	6778	0.317	ng	99
22) Carbon Disulfide	5.70	76	101095	1.165	ng	99
24) 1,1-Dichloroethane	6.42	63	561658	14.397	ng	100
27) 2-Butanone (MEK)	6.77	72	38059	2.867	ng	98
30) Ethyl Acetate	7.38	61	80377	9.209	ng	96
31) n-Hexane	7.38	57	133439	3.972	ng	99
32) Chloroform	7.46	83	232244	5.844	ng	100
34) Tetrahydrofuran (THF)	7.86	72	9018	0.662	ng	# 57
38) 1,1,1-Trichloroethane	8.49	97	6879710	191.165	ng	99
41) Benzene	8.99	78	270401	3.197	ng	98
42) Carbon Tetrachloride	9.15	117	43894m	1.383	ng	
43) Cyclohexane	9.29	84	44017	1.420	ng	94
46) Bromodichloromethane	10.17	83	16599	0.531	ng	# 74
47) Trichloroethene	10.22	130	156711	6.324	ng	99
51) n-Heptane	10.64	71	251613	12.293	ng	98
53) 4-Methyl-2-pentanone	11.39	58	9500	0.521	ng	# 84
58) Toluene	12.61	91	986696	9.952	ng	99
62) n-Butyl Acetate	13.82	43	14553	0.266	ng	80
63) n-Octane	13.96	57	296957	15.232	ng	96
64) Tetrachloroethene	14.08	166	409559	13.579	ng	99
65) Chlorobenzene	14.94	112	7045	0.108	ng	92
66) Ethylbenzene	15.44	91	129262	1.093	ng	98
67) m- & p-Xylenes	15.66	91	444515	4.670	ng	98
69) Styrene	16.13	104	29905	0.457	ng	97
70) o-Xylene	16.27	91	151643	1.666	ng	100
71) n-Nonane	16.64	43	407803	9.258	ng	97
74) Cumene	17.06	105	13348	0.121	ng	98
75) alpha-Pinene	17.57	93	23181	0.454	ng	96
76) n-Propylbenzene	17.75	91	23545	0.177	ng	97
78) 4-Ethyltoluene	17.95	105	23825	0.224	ng	99
79) 1,3,5-Trimethylbenzene	18.06	105	30814	0.328	ng	96
82) 1,2,4-Trimethylbenzene	18.60	105	80802	0.873	ng	88
85) 1,3-Dichlorobenzene	18.77	146	4195	0.075	ng	97
86) 1,4-Dichlorobenzene	18.86	146	7317	0.126	ng	97
90) 1,2-Dichlorobenzene	19.30	146	7019	0.127	ng	88
91) d-Limonene	19.36	68	44441	1.419	ng	98
95) Naphthalene	21.55	128	22380	0.223	ng	99

Data File : I:\MS13\DATA\2023_03\23\03232331.D Vial: 14
Acq On : 24 Mar 2023 00:13 Operator: TZ
Sample : P2301250-007 (1000mL) Inst : MS13
Misc : S35-01202301

Quant Time: Mar 27 11:08:52 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M

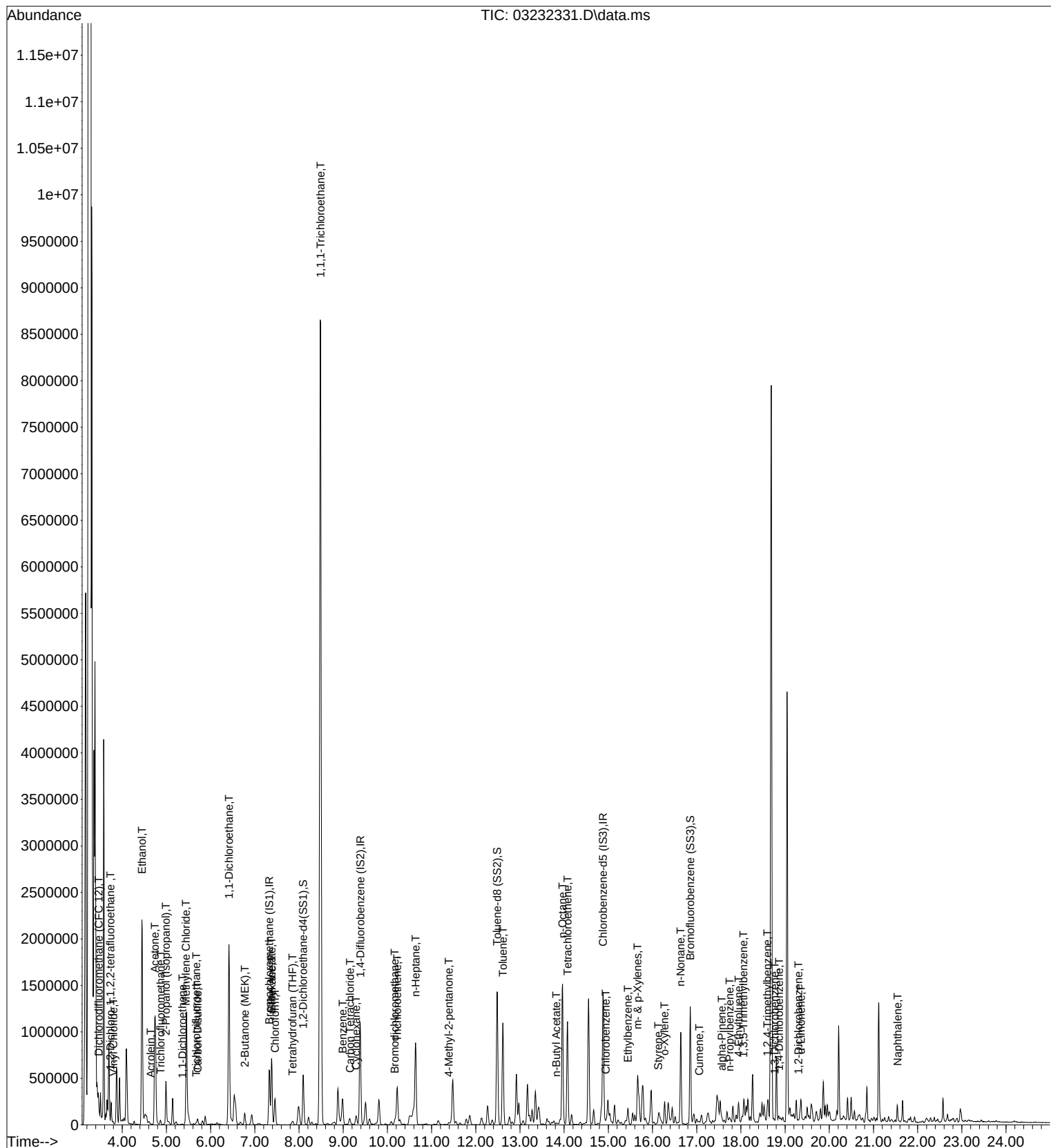
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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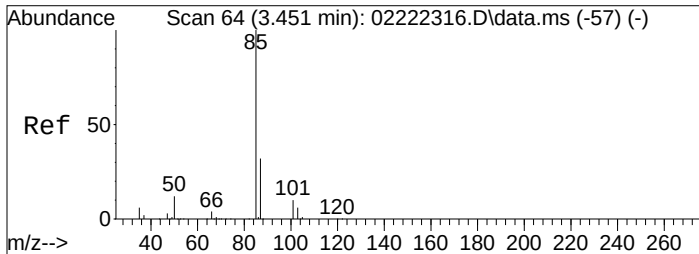
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS13\DATA\2023_03\23\03232331.D
Acq On : 24 Mar 2023 00:13
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Misc : S35-01202301

Vial: 14
Operator: TZ
Inst : MS13

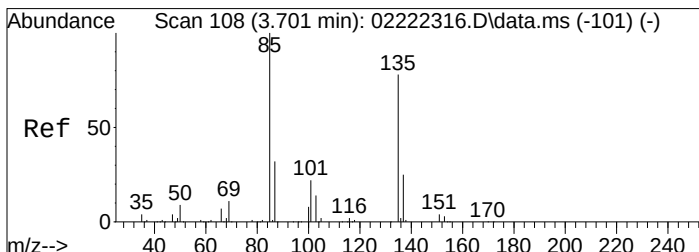
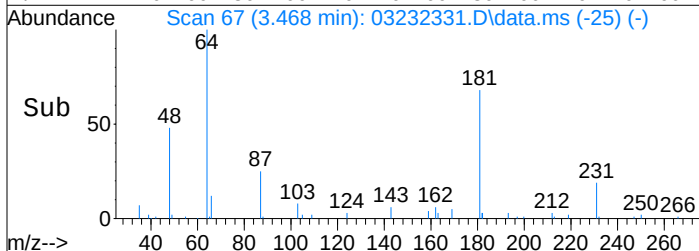
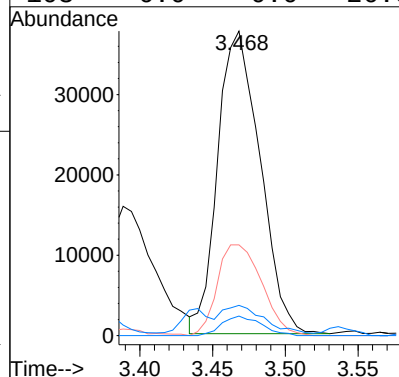
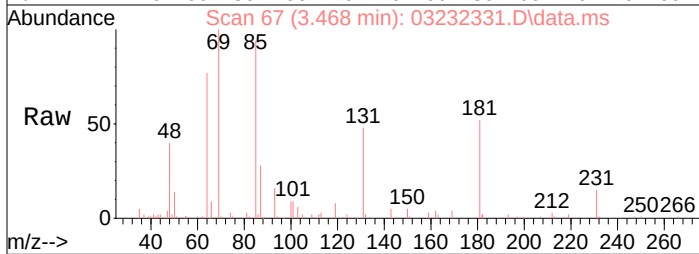
Quant Time: Mar 27 11:08:52 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M





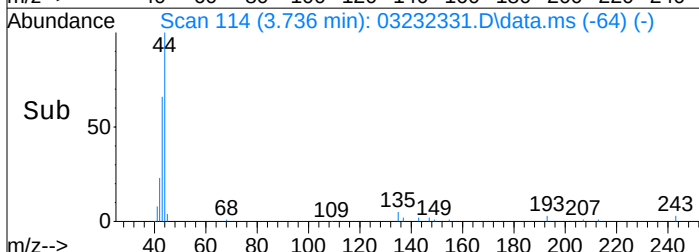
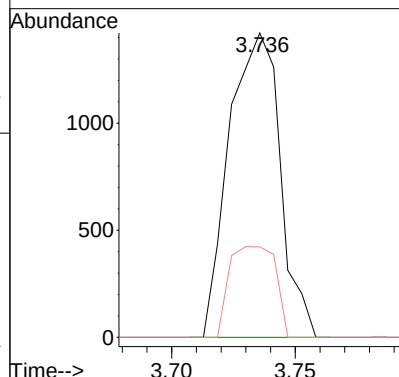
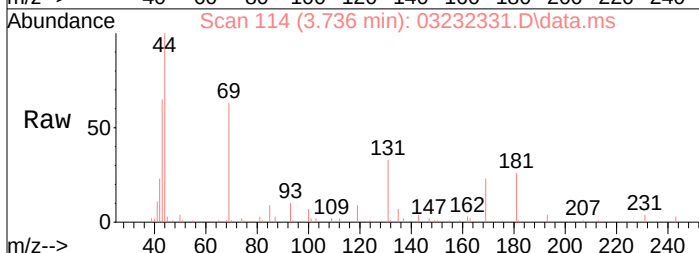
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.69 ng
 RT: 3.47 min Scan# 67
 Delta R.T. -0.010 min
 Lab File: 03232331.D
 Acq: 24 Mar 2023 00:13

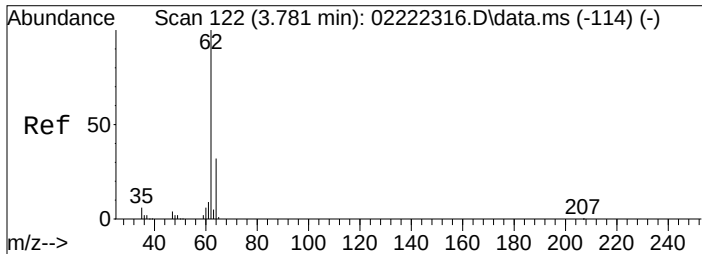
Tgt Ion: 85 Resp: 76177
 Ion Ratio Lower Upper
 85 100
 87 31.5 12.4 52.4
 101 8.8 0.0 29.4
 103 6.0 0.0 26.0



#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.09 ng
 RT: 3.74 min Scan# 114
 Delta R.T. 0.034 min
 Lab File: 03232331.D
 Acq: 24 Mar 2023 00:13

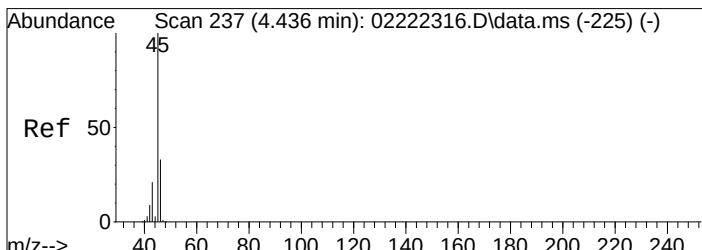
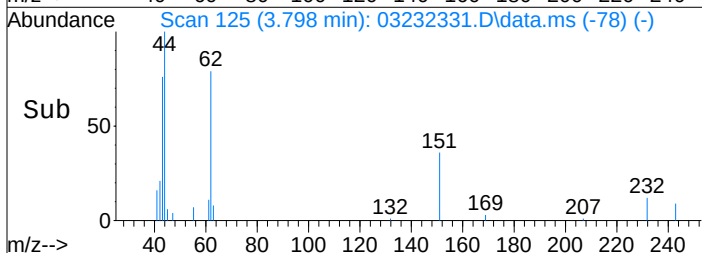
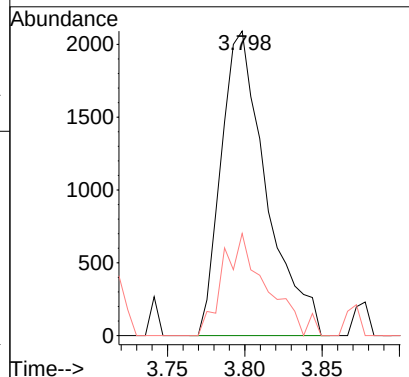
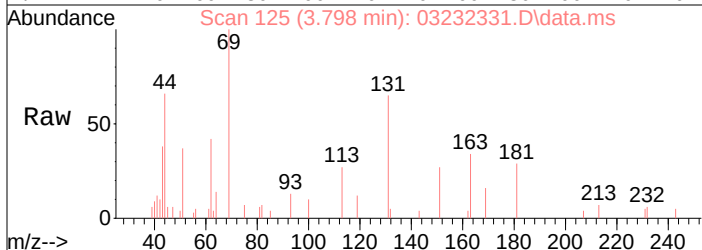
Tgt Ion: 135 Resp: 2043
 Ion Ratio Lower Upper
 135 100
 137 27.0 12.2 52.2





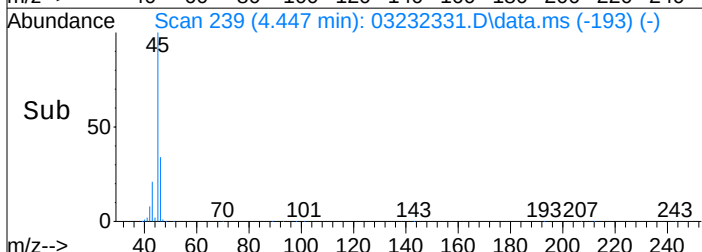
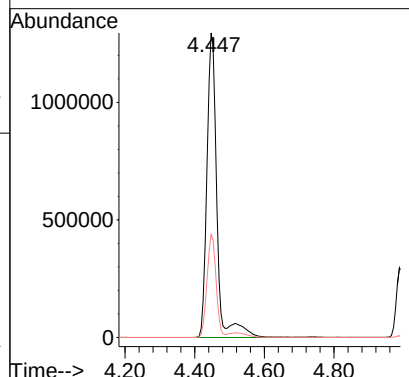
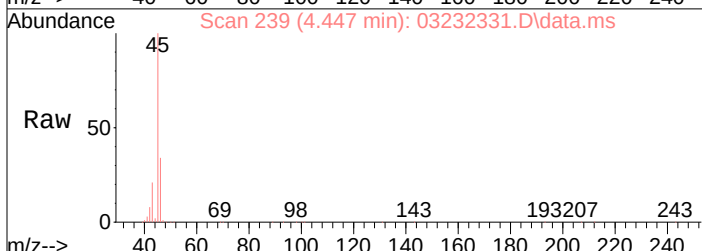
#6
 Vinyl Chloride
 Concen: 0.14 ng
 RT: 3.80 min Scan# 125
 Delta R.T. 0.017 min
 Lab File: 03232331.D
 Acq: 24 Mar 2023 00:13

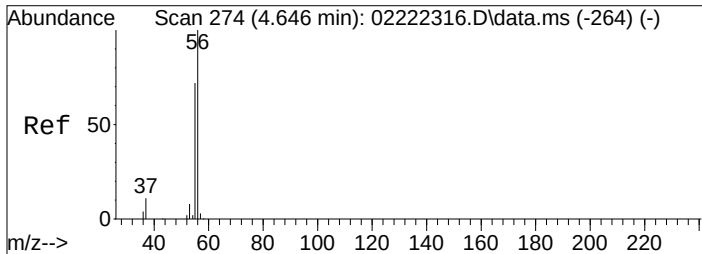
Tgt Ion:	62	Resp:	4258
Ion Ratio		Lower	Upper
62	100		
64	32.5	11.8	51.8



#10
 Ethanol
 Concen: 147.34 ng
 RT: 4.45 min Scan# 239
 Delta R.T. 0.011 min
 Lab File: 03232331.D
 Acq: 24 Mar 2023 00:13

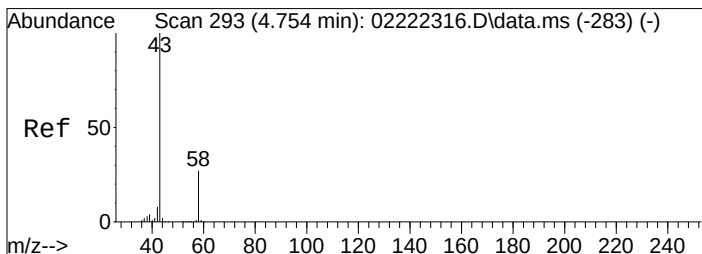
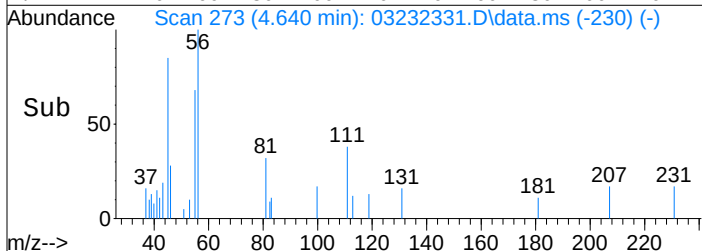
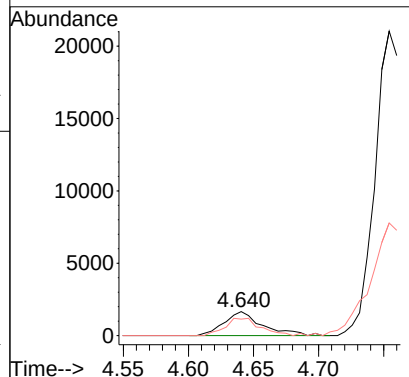
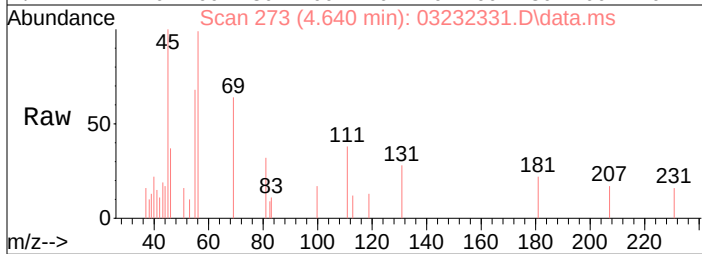
Tgt Ion:	45	Resp:	2581353
Ion Ratio		Lower	Upper
45	100		
46	33.8	13.8	53.8





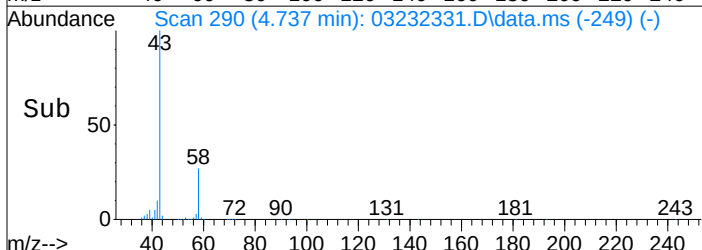
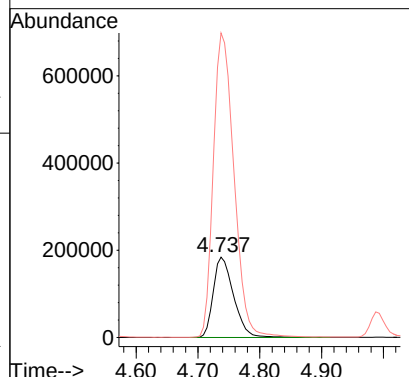
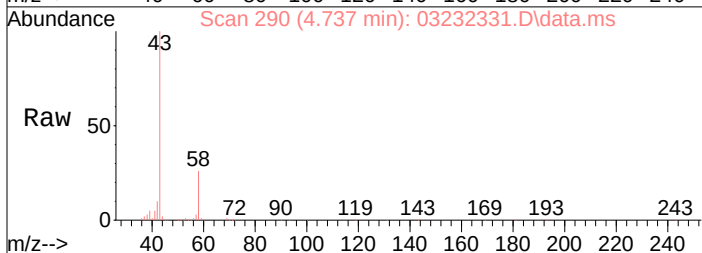
#12
 Acrolein
 Concen: 0.23 ng
 RT: 4.64 min Scan# 273
 Delta R.T. -0.006 min
 Lab File: 03232331.D
 Acq: 24 Mar 2023 00:13

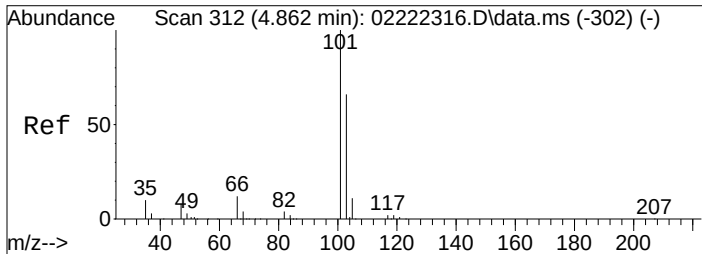
Tgt Ion: 56 Resp: 3386
 Ion Ratio Lower Upper
 56 100
 55 65.9 50.9 90.9



#13
 Acetone
 Concen: 28.24 ng
 RT: 4.74 min Scan# 290
 Delta R.T. -0.017 min
 Lab File: 03232331.D
 Acq: 24 Mar 2023 00:13

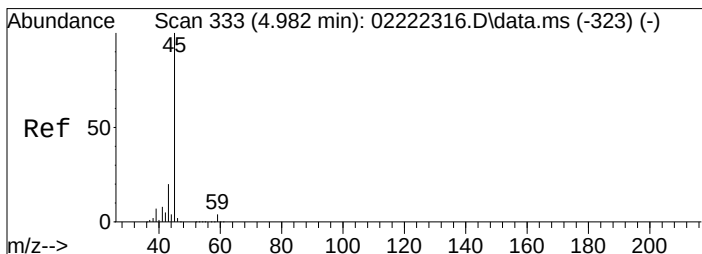
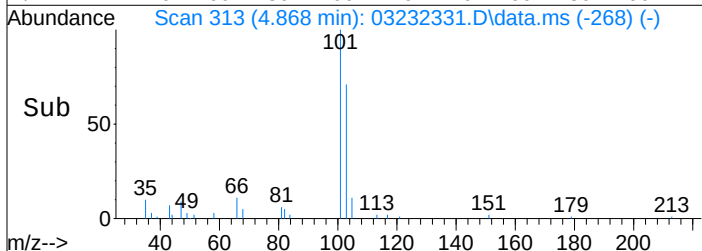
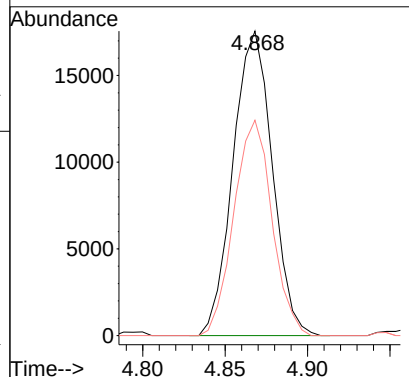
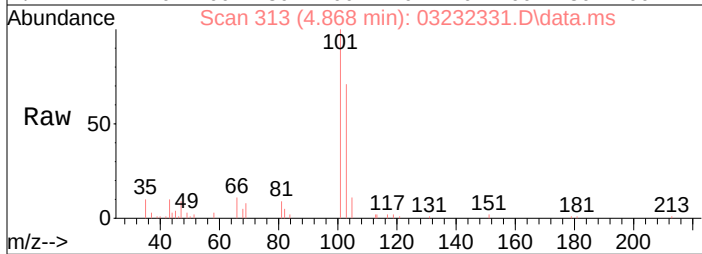
Tgt Ion: 58 Resp: 422274
 Ion Ratio Lower Upper
 58 100
 43 384.3 337.8 397.8





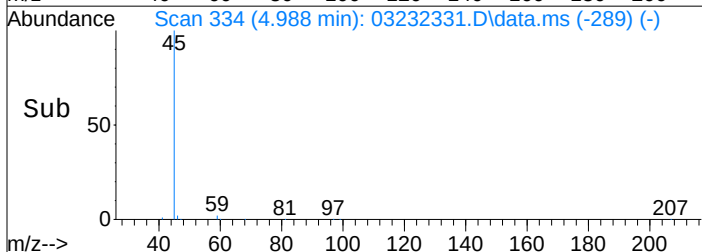
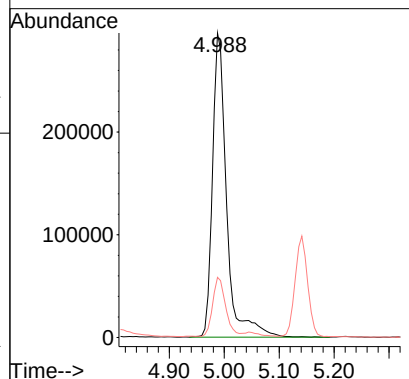
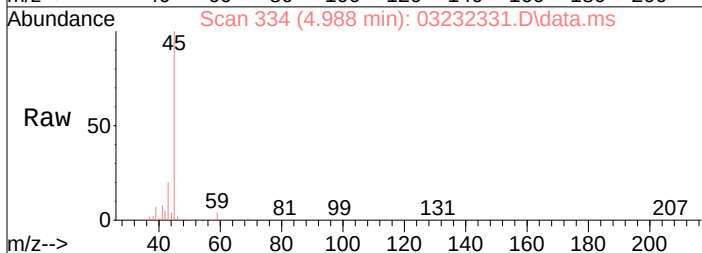
#14
 Trichlorofluoromethane
 Concen: 0.72 ng
 RT: 4.87 min Scan# 313
 Delta R.T. 0.006 min
 Lab File: 03232331.D
 Acq: 24 Mar 2023 00:13

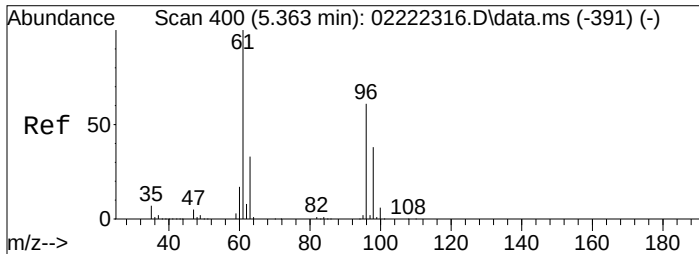
Tgt Ion:	101	Resp:	29103
Ion Ratio	Lower	Upper	
101	100		
103	68.8	45.2	85.2



#15
 2-Propanol (Isopropanol)
 Concen: 8.77 ng
 RT: 4.99 min Scan# 334
 Delta R.T. 0.006 min
 Lab File: 03232331.D
 Acq: 24 Mar 2023 00:13

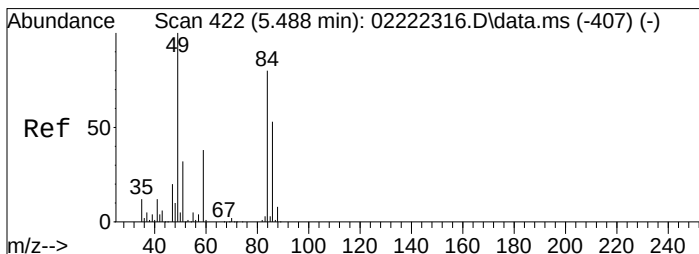
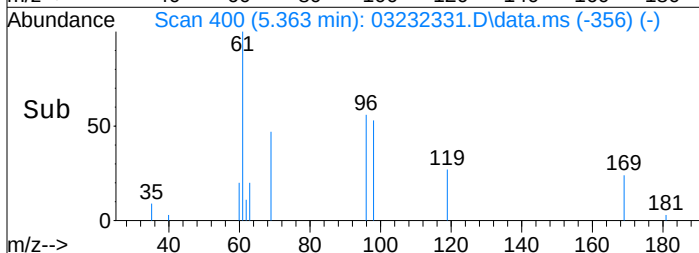
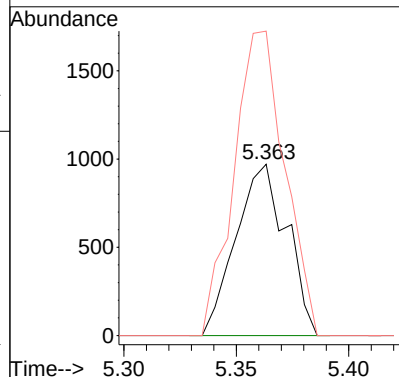
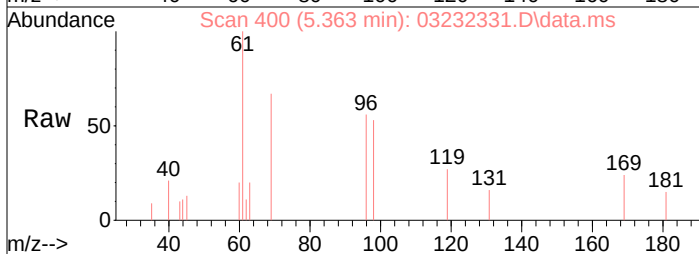
Tgt Ion:	45	Resp:	529652
Ion Ratio	Lower	Upper	
45	100		
43	19.9	0.0	39.7





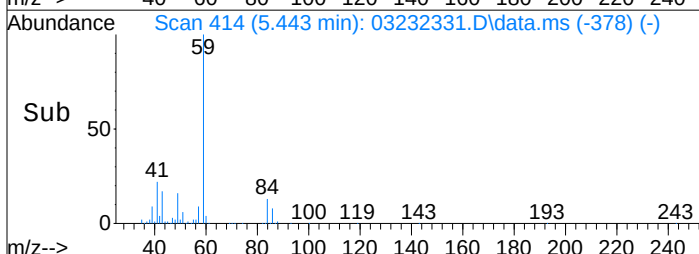
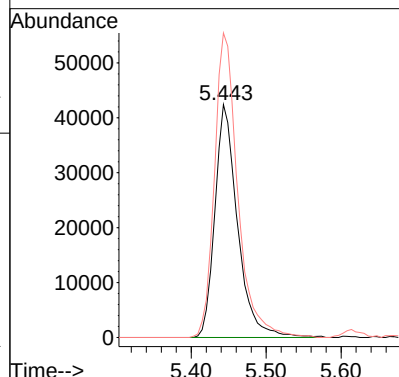
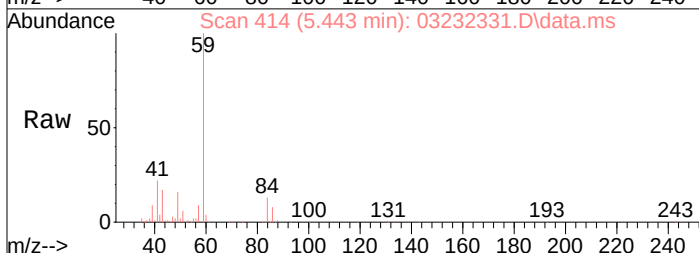
#17
 1,1-Dichloroethene
 Concen: 0.07 ng
 RT: 5.36 min Scan# 400
 Delta R.T. 0.000 min
 Lab File: 03232331.D
 Acq: 24 Mar 2023 00:13

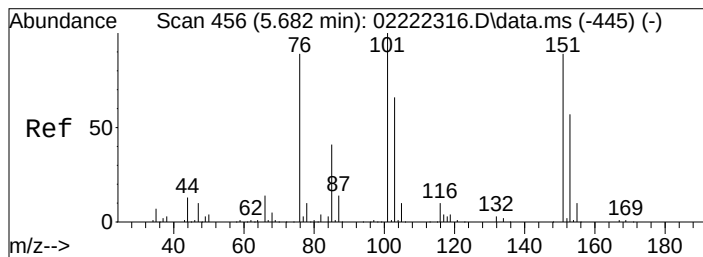
Tgt Ion: 96 Resp: 1526
 Ion Ratio Lower Upper
 96 100
 61 177.8 145.7 185.7



#19
 Methylene Chloride
 Concen: 4.08 ng
 RT: 5.44 min Scan# 414
 Delta R.T. -0.045 min
 Lab File: 03232331.D
 Acq: 24 Mar 2023 00:13

Tgt Ion: 84 Resp: 89342
 Ion Ratio Lower Upper
 84 100
 49 134.5 101.3 151.3





#21

Trichlorotrifluoroethane

Concen: 0.32 ng

RT: 5.68 min Scan# 455

Delta R.T. -0.006 min

Lab File: 03232331.D

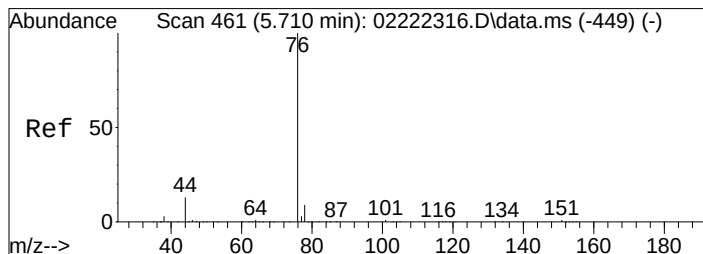
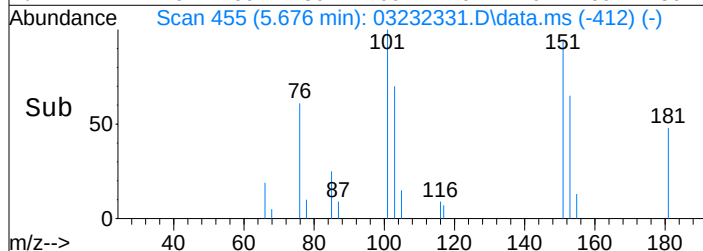
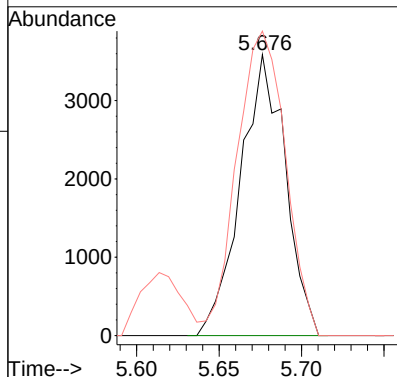
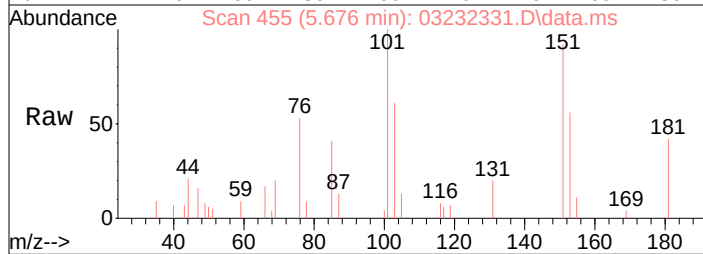
Acq: 24 Mar 2023 00:13

Tgt Ion: 151 Resp: 6778

Ion Ratio Lower Upper

151 100

101 117.9 96.3 136.3



#22

Carbon Disulfide

Concen: 1.16 ng

RT: 5.70 min Scan# 460

Delta R.T. -0.006 min

Lab File: 03232331.D

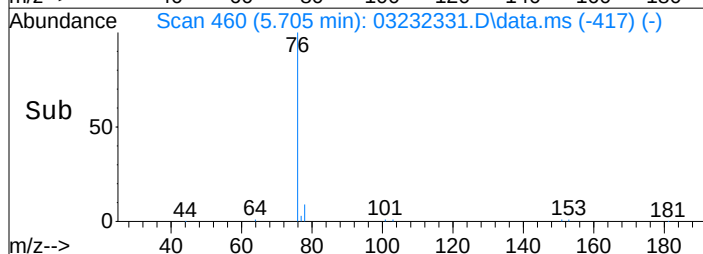
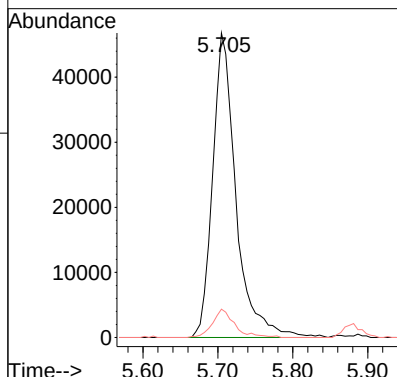
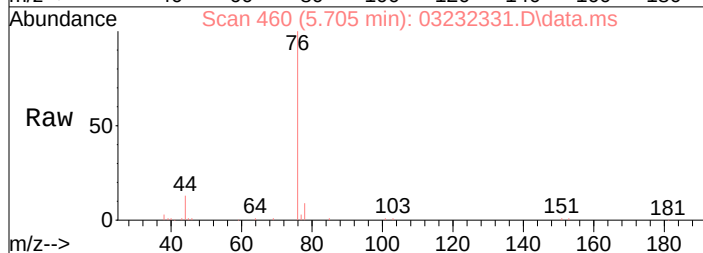
Acq: 24 Mar 2023 00:13

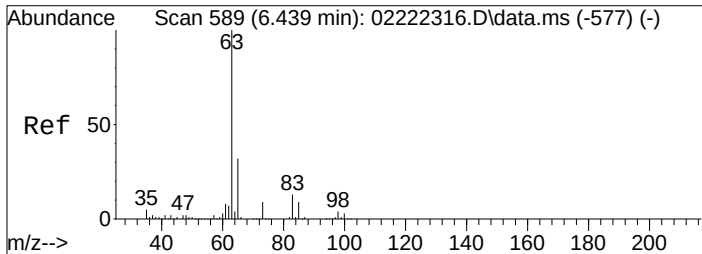
Tgt Ion: 76 Resp: 101095

Ion Ratio Lower Upper

76 100

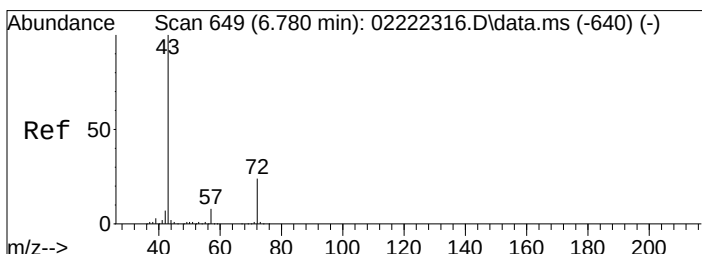
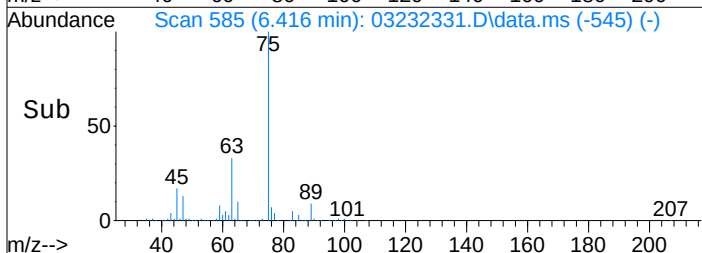
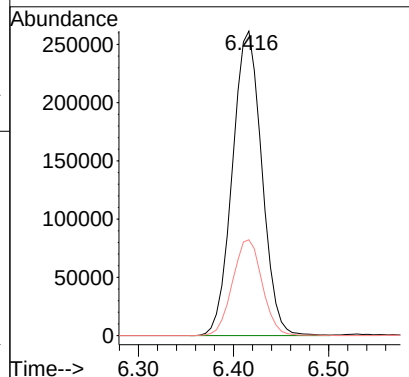
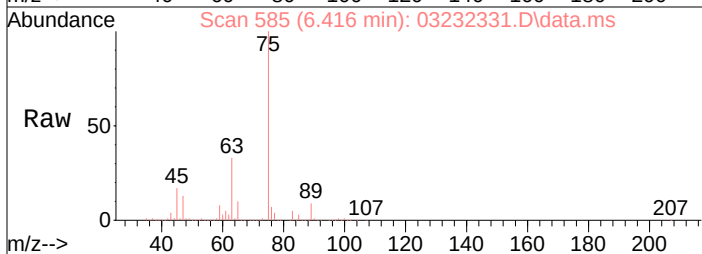
78 8.9 0.0 29.3





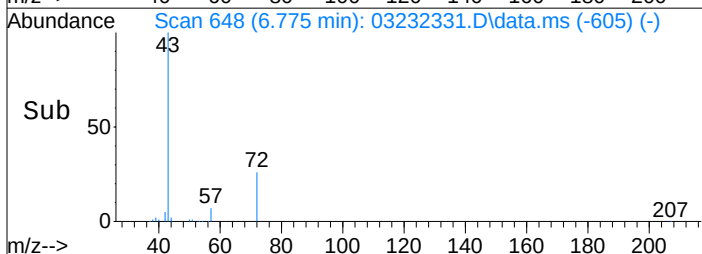
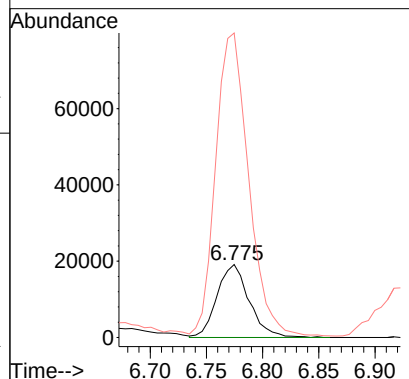
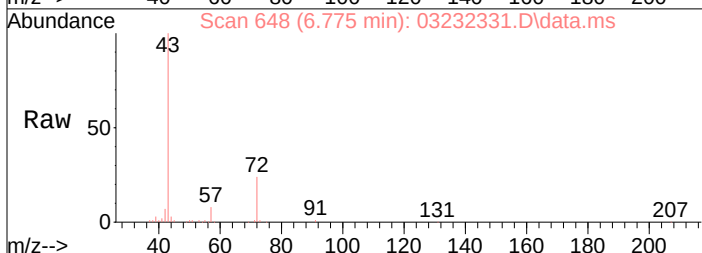
#24
 1,1-Dichloroethane
 Concen: 14.40 ng
 RT: 6.42 min Scan# 585
 Delta R.T. -0.023 min
 Lab File: 03232331.D
 Acq: 24 Mar 2023 00:13

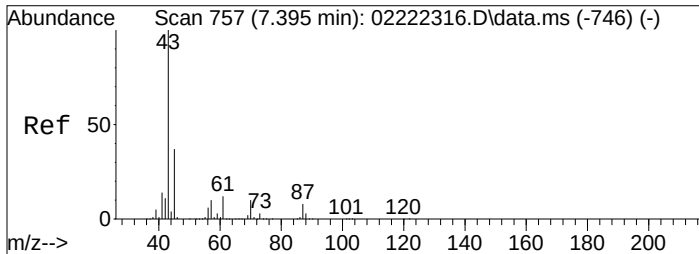
Tgt Ion: 63 Resp: 561658
 Ion Ratio Lower Upper
 63 100
 65 31.8 12.0 52.0



#27
 2-Butanone (MEK)
 Concen: 2.87 ng
 RT: 6.77 min Scan# 648
 Delta R.T. -0.006 min
 Lab File: 03232331.D
 Acq: 24 Mar 2023 00:13

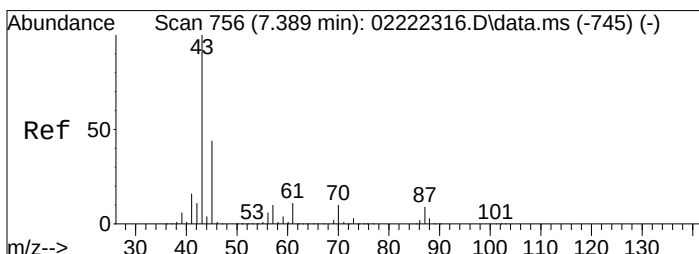
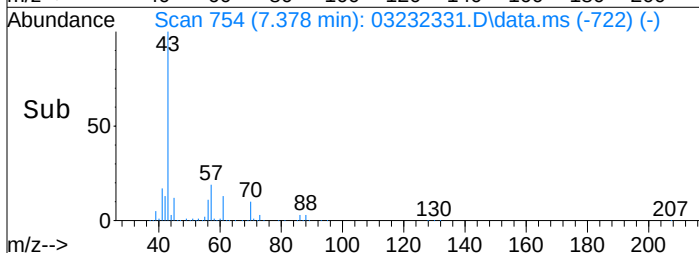
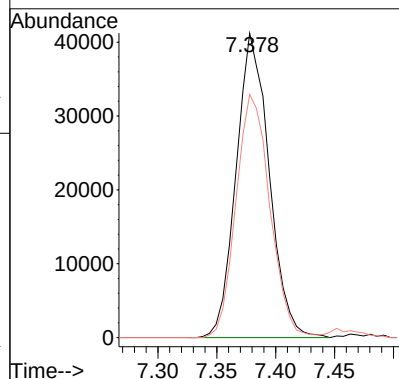
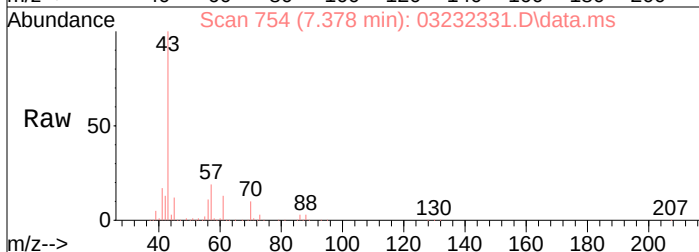
Tgt Ion: 72 Resp: 38059
 Ion Ratio Lower Upper
 72 100
 43 424.7 400.5 440.5





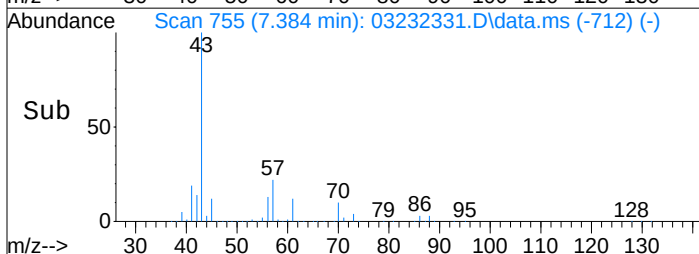
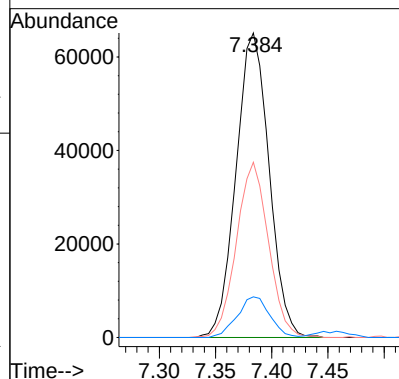
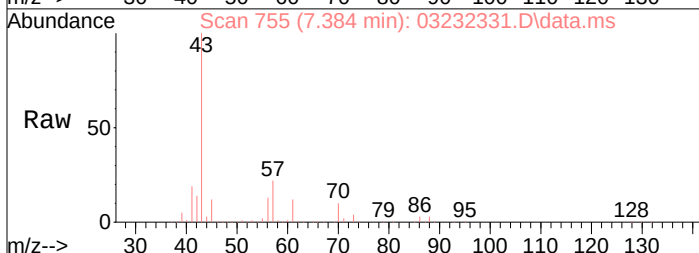
#30
Ethyl Acetate
Concen: 9.21 ng
RT: 7.38 min Scan# 754
Delta R.T. -0.017 min
Lab File: 03232331.D
Acq: 24 Mar 2023 00:13

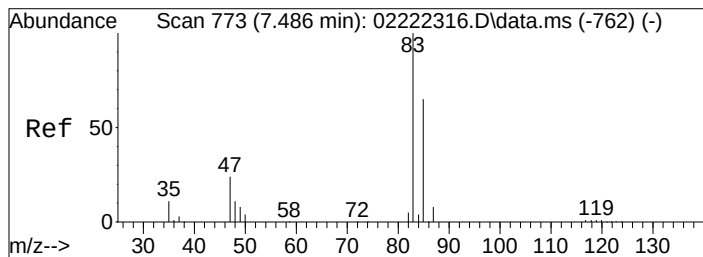
Tgt Ion: 61 Resp: 80377
Ion Ratio Lower Upper
61 100
70 82.1 65.6 105.6



#31
n-Hexane
Concen: 3.97 ng
RT: 7.38 min Scan# 755
Delta R.T. -0.006 min
Lab File: 03232331.D
Acq: 24 Mar 2023 00:13

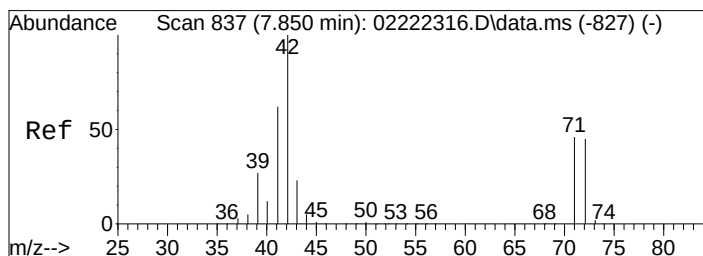
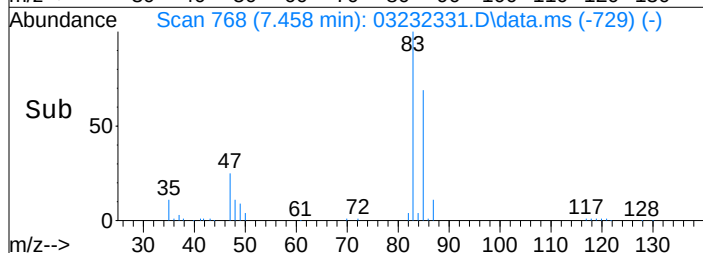
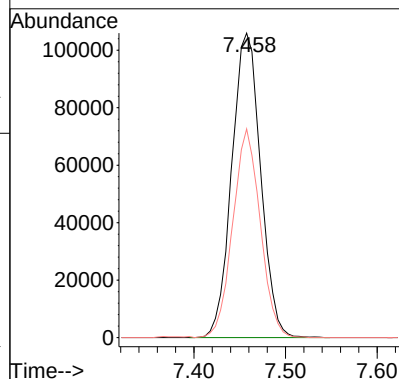
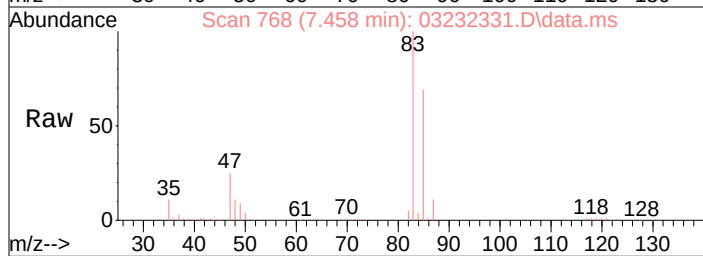
Tgt Ion: 57 Resp: 133439
Ion Ratio Lower Upper
57 100
56 55.8 44.0 66.0
86 13.2 11.5 17.3





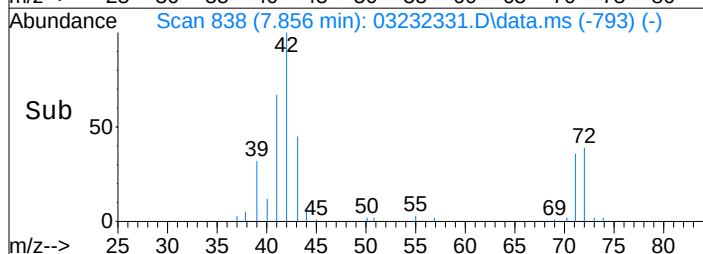
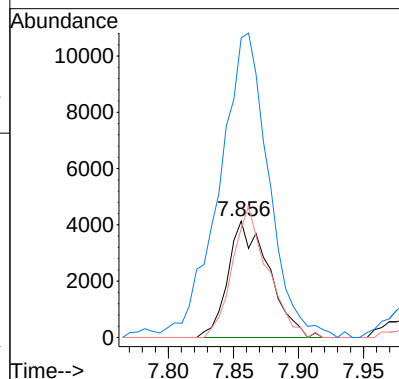
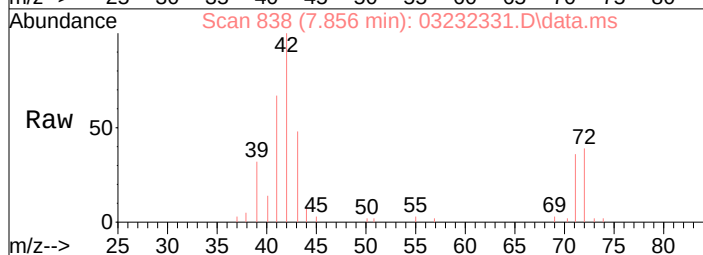
#32
Chloroform
Concen: 5.84 ng
RT: 7.46 min Scan# 768
Delta R.T. -0.028 min
Lab File: 03232331.D
Acq: 24 Mar 2023 00:13

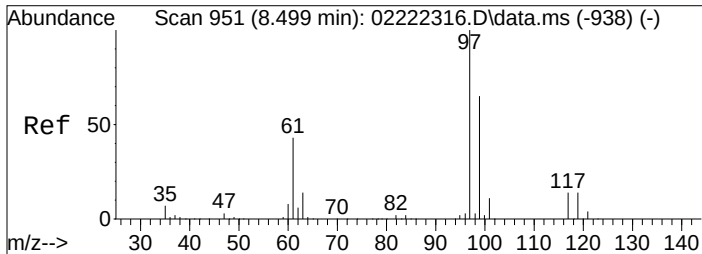
Tgt Ion: 83 Resp: 232244
Ion Ratio Lower Upper
83 100
85 65.2 45.0 85.0



#34
Tetrahydrofuran (THF)
Concen: 0.66 ng
RT: 7.86 min Scan# 838
Delta R.T. 0.006 min
Lab File: 03232331.D
Acq: 24 Mar 2023 00:13

Tgt Ion: 72 Resp: 9018
Ion Ratio Lower Upper
72 100
71 97.6 79.8 119.8
42 317.9 199.0 239.0#

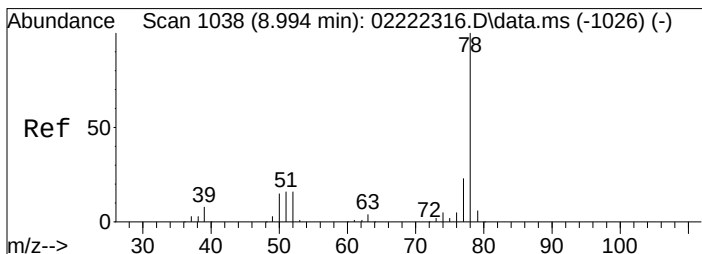
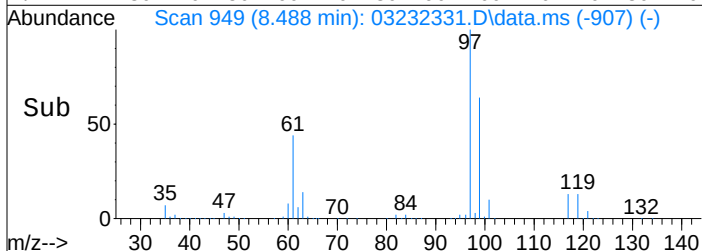
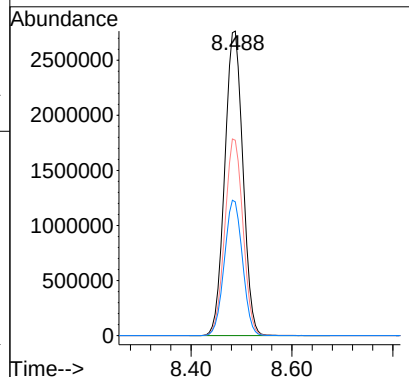
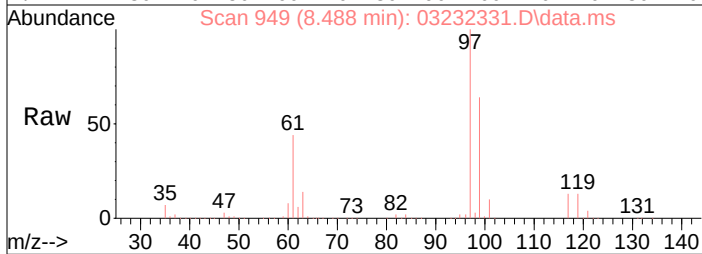




#38
 1,1,1-Trichloroethane
 Concen: 191.16 ng
 RT: 8.49 min Scan# 949
 Delta R.T. -0.011 min
 Lab File: 03232331.D
 Acq: 24 Mar 2023 00:13

Tgt Ion: 97 Resp: 6879710

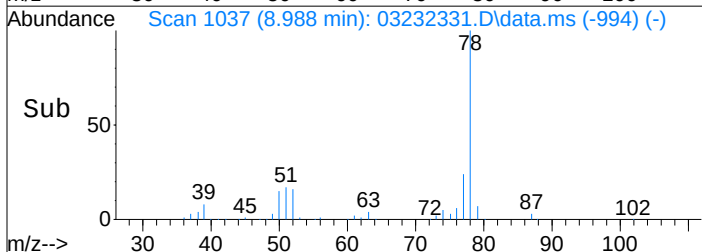
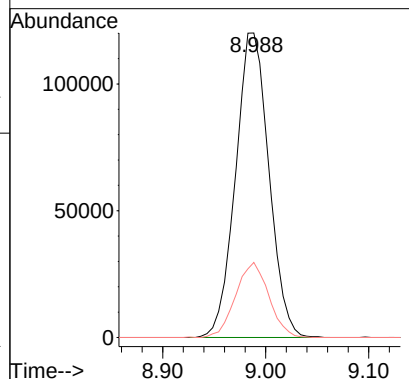
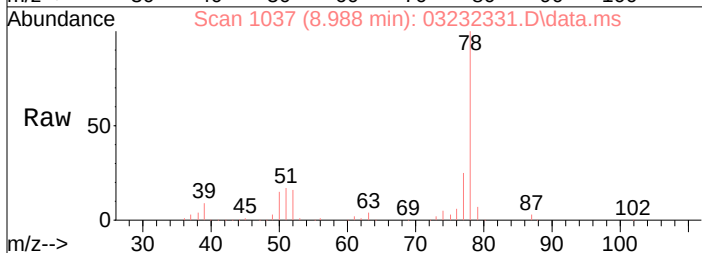
Ion	Ratio	Lower	Upper
97	100		
99	64.6	44.9	84.9
61	44.4	23.5	63.5

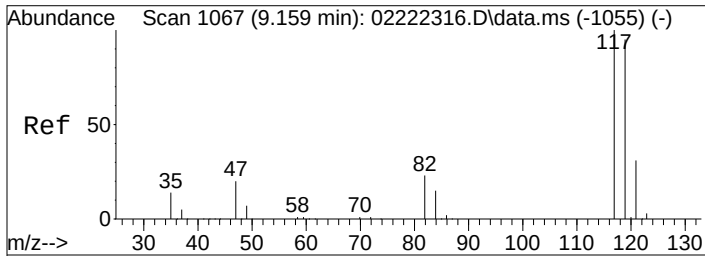


#41
 Benzene
 Concen: 3.20 ng
 RT: 8.99 min Scan# 1037
 Delta R.T. -0.006 min
 Lab File: 03232331.D
 Acq: 24 Mar 2023 00:13

Tgt Ion: 78 Resp: 270401

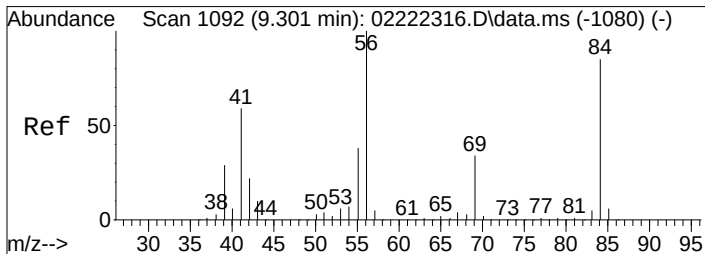
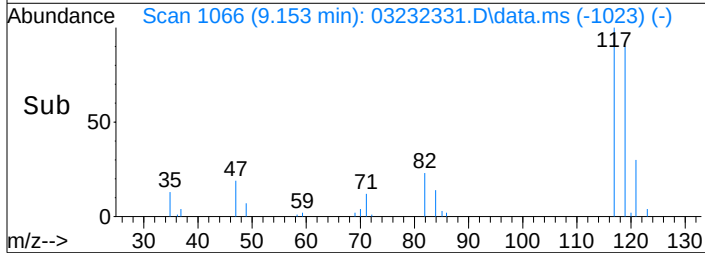
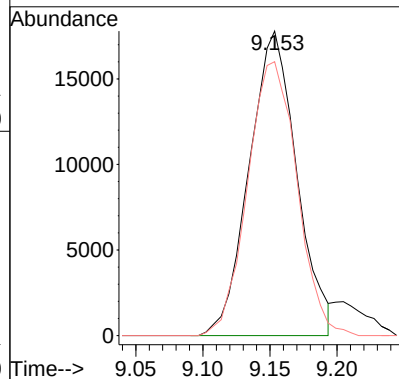
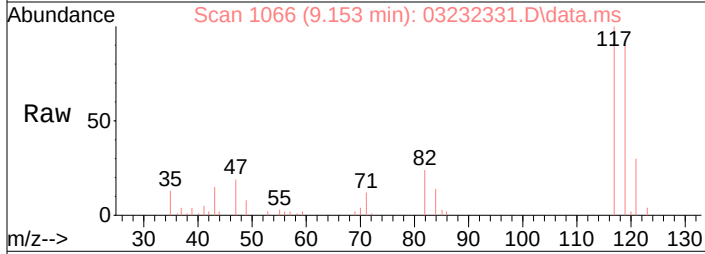
Ion	Ratio	Lower	Upper
78	100		
77	24.5	3.7	43.7





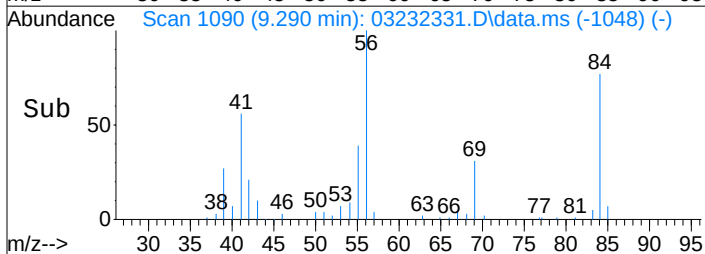
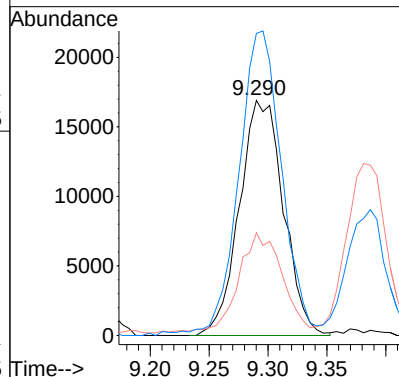
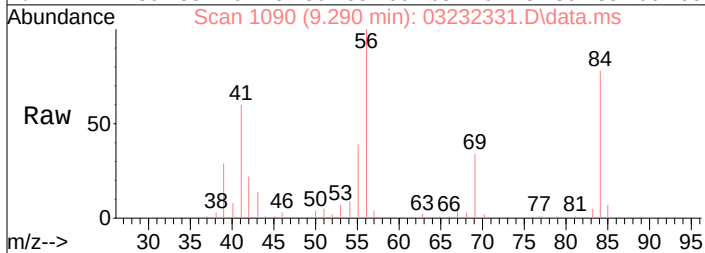
#42
Carbon Tetrachloride
Concen: 1.38 ng m
RT: 9.15 min Scan# 1066
Delta R.T. -0.006 min
Lab File: 03232331.D
Acq: 24 Mar 2023 00:13

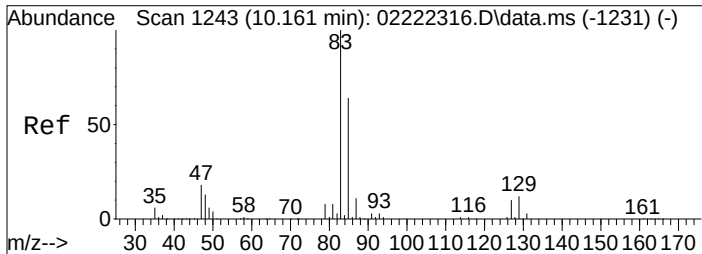
Tgt Ion: 117 Resp: 43894
Ion Ratio Lower Upper
117 100
119 93.4 75.7 115.7



#43
Cyclohexane
Concen: 1.42 ng
RT: 9.29 min Scan# 1090
Delta R.T. -0.011 min
Lab File: 03232331.D
Acq: 24 Mar 2023 00:13

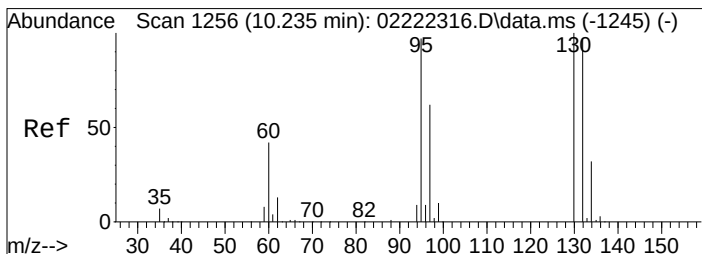
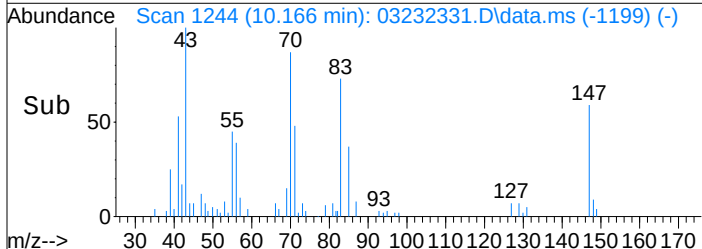
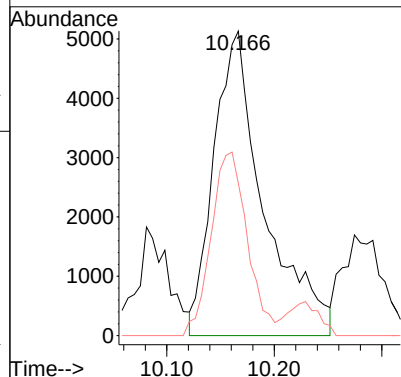
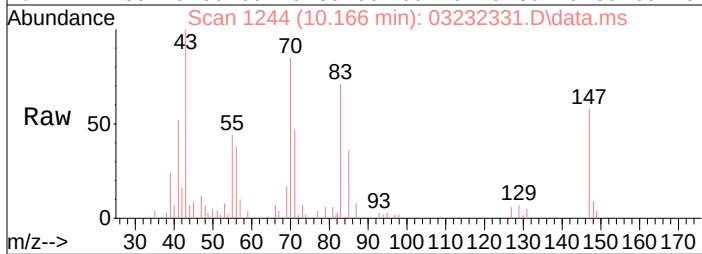
Tgt Ion: 84 Resp: 44017
Ion Ratio Lower Upper
84 100
69 42.2 20.0 60.0
56 126.0 98.5 138.5





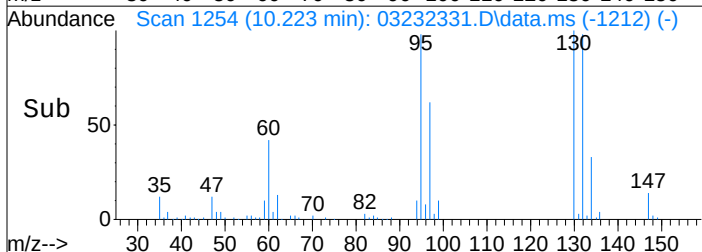
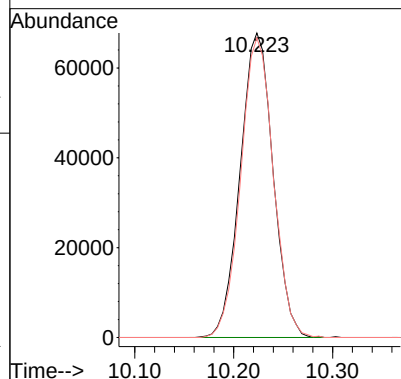
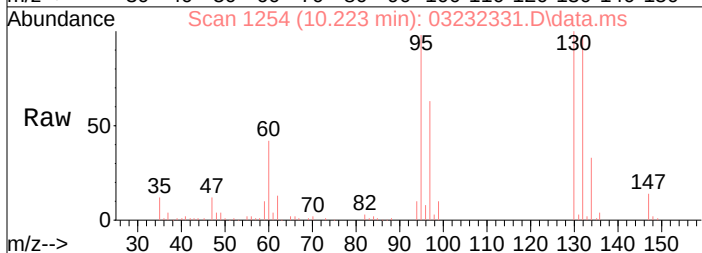
#46
Bromodichloromethane
Concen: 0.53 ng
RT: 10.17 min Scan# 1244
Delta R.T. 0.006 min
Lab File: 03232331.D
Acq: 24 Mar 2023 00:13

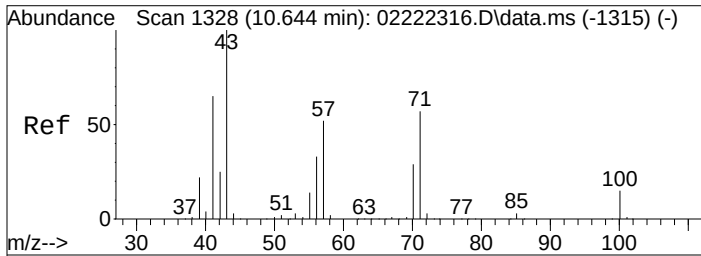
Tgt Ion: 83 Resp: 16599
Ion Ratio Lower Upper
83 100
85 43.6 44.0 84.0#



#47
Trichloroethene
Concen: 6.32 ng
RT: 10.22 min Scan# 1254
Delta R.T. -0.011 min
Lab File: 03232331.D
Acq: 24 Mar 2023 00:13

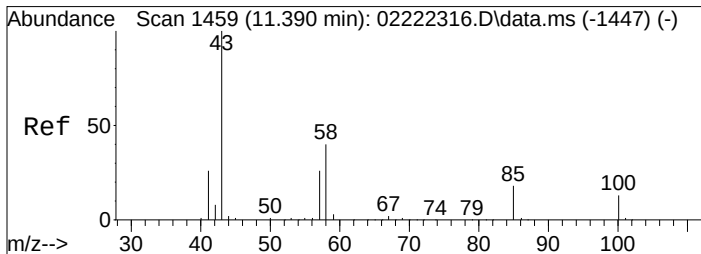
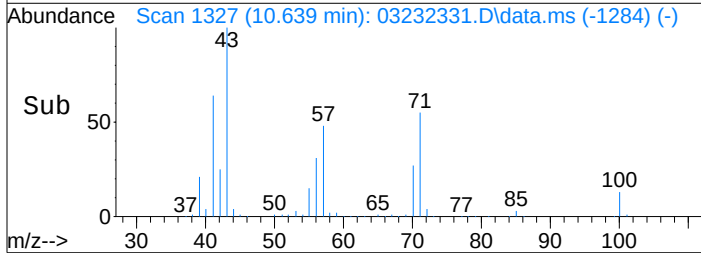
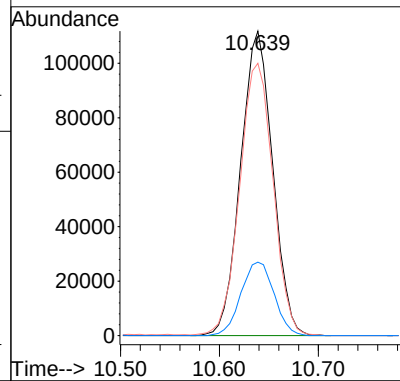
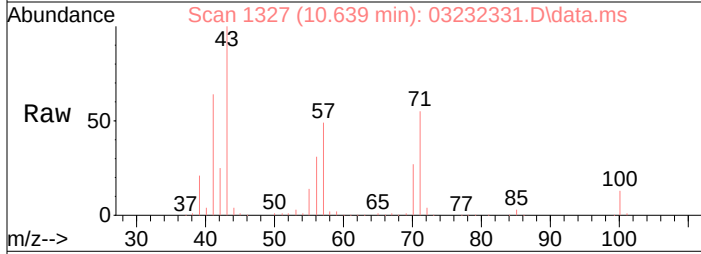
Tgt Ion: 130 Resp: 156711
Ion Ratio Lower Upper
130 100
132 97.5 76.3 116.3





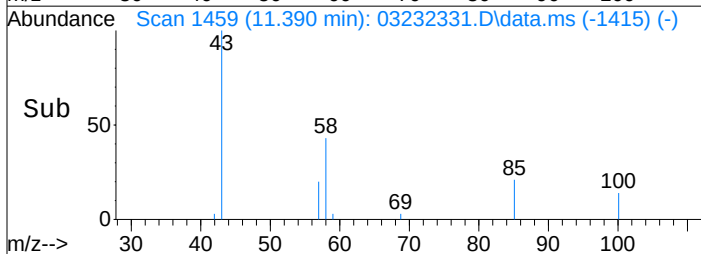
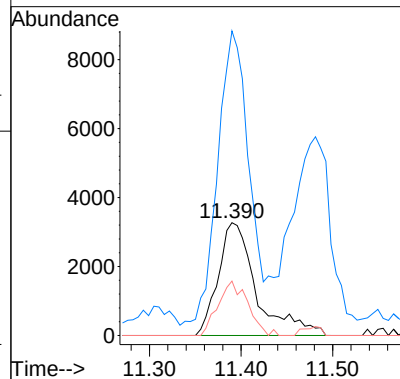
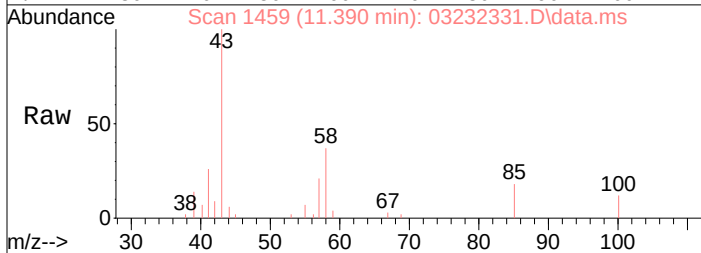
#51
n-Heptane
Concen: 12.29 ng
RT: 10.64 min Scan# 1327
Delta R.T. -0.006 min
Lab File: 03232331.D
Acq: 24 Mar 2023 00:13

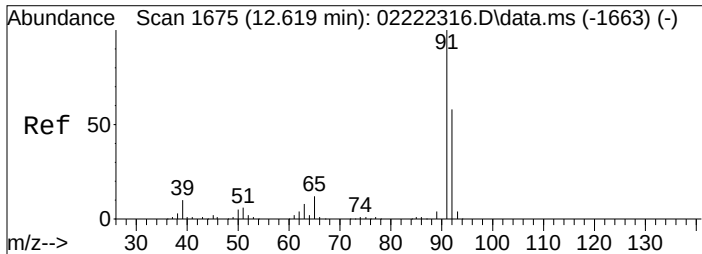
Tgt Ion: 71 Resp: 251613
Ion Ratio Lower Upper
71 100
57 93.4 71.7 111.7
100 24.9 5.8 45.8



#53
4-Methyl-2-pentanone
Concen: 0.52 ng
RT: 11.39 min Scan# 1459
Delta R.T. 0.000 min
Lab File: 03232331.D
Acq: 24 Mar 2023 00:13

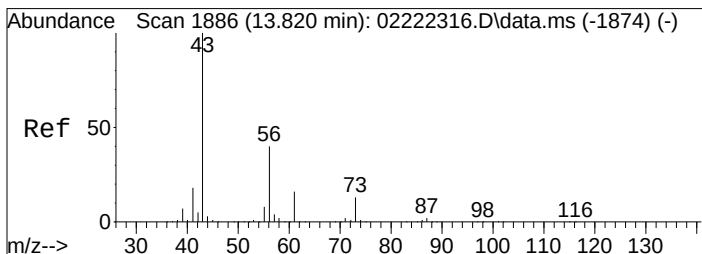
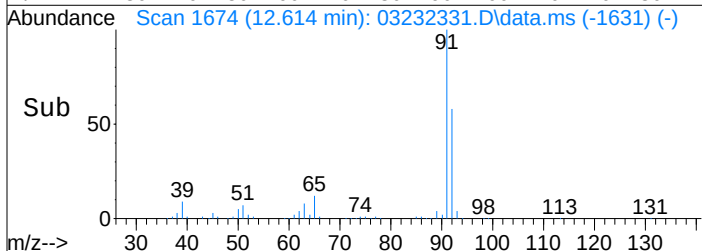
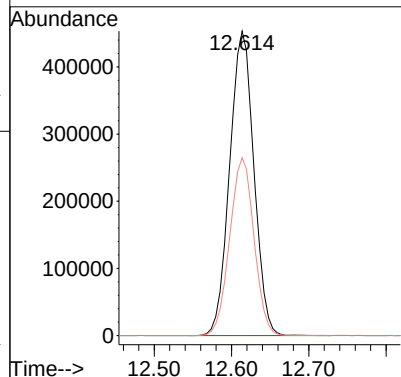
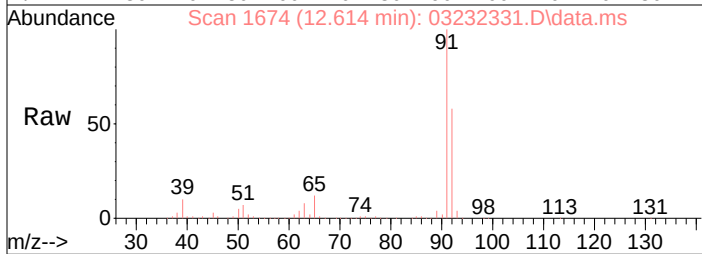
Tgt Ion: 58 Resp: 9500
Ion Ratio Lower Upper
58 100
85 37.4 38.6 58.0#
43 224.7 202.2 303.2





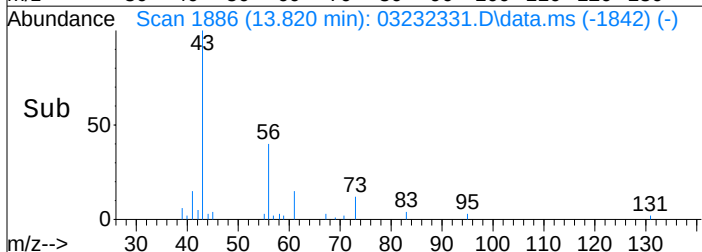
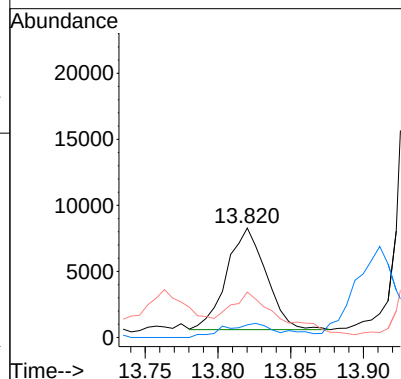
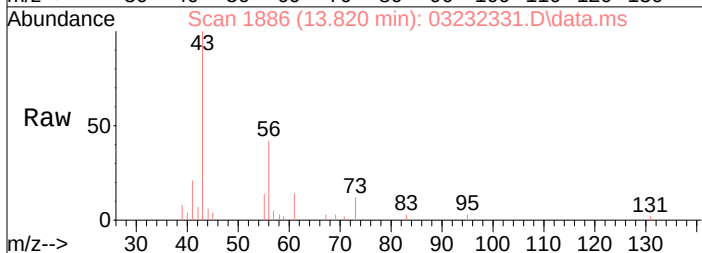
#58
Toluene
Concen: 9.95 ng
RT: 12.61 min Scan# 1674
Delta R.T. -0.006 min
Lab File: 03232331.D
Acq: 24 Mar 2023 00:13

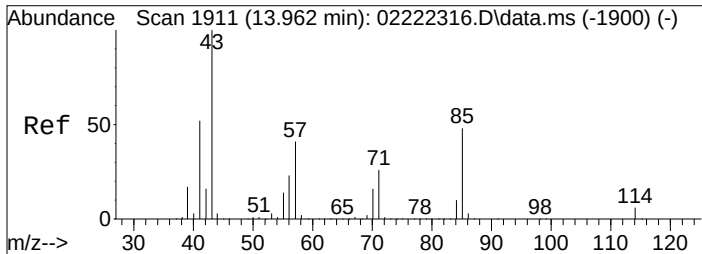
Tgt Ion: 91 Resp: 986696
Ion Ratio Lower Upper
91 100
92 58.6 38.0 78.0



#62
n-Butyl Acetate
Concen: 0.27 ng
RT: 13.82 min Scan# 1886
Delta R.T. 0.000 min
Lab File: 03232331.D
Acq: 24 Mar 2023 00:13

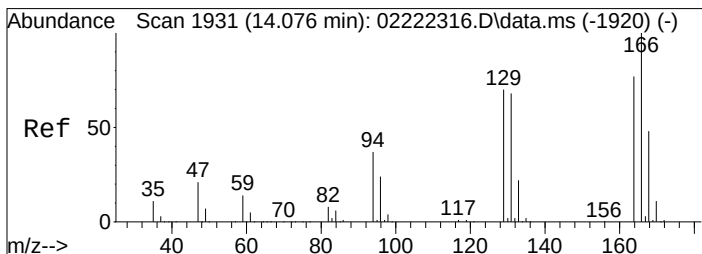
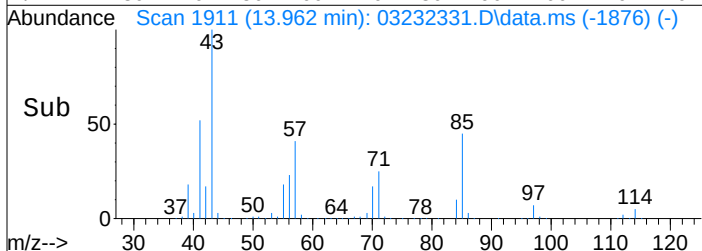
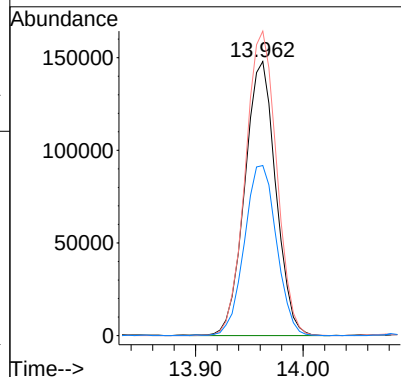
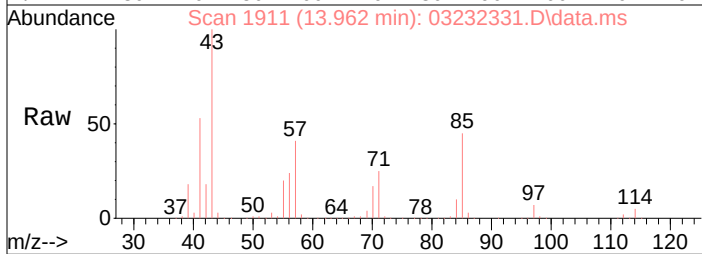
Tgt Ion: 43 Resp: 14553
Ion Ratio Lower Upper
43 100
56 53.0 20.0 60.0
73 20.2 0.0 33.2





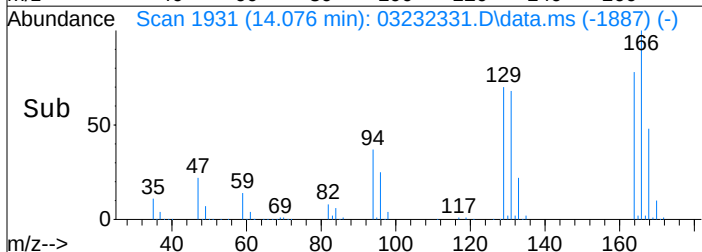
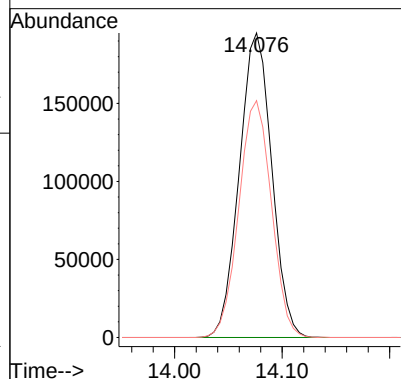
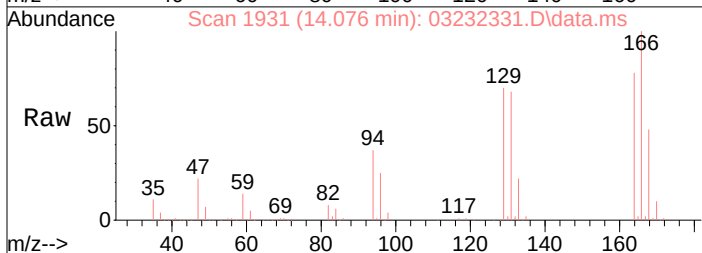
#63
n-Octane
Concen: 15.23 ng
RT: 13.96 min Scan# 1911
Delta R.T. 0.000 min
Lab File: 03232331.D
Acq: 24 Mar 2023 00:13

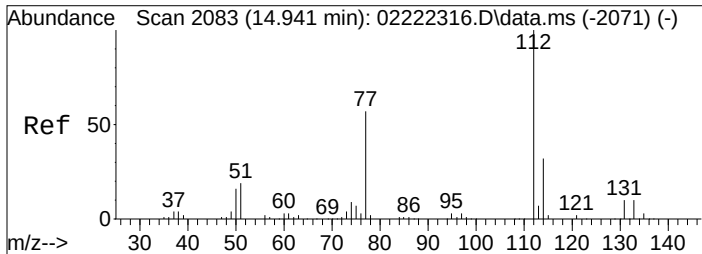
Tgt Ion	Ratio	Lower	Upper
57	100		
85	111.6	94.1	141.1
71	64.1	52.6	79.0



#64
Tetrachloroethene
Concen: 13.58 ng
RT: 14.08 min Scan# 1931
Delta R.T. 0.000 min
Lab File: 03232331.D
Acq: 24 Mar 2023 00:13

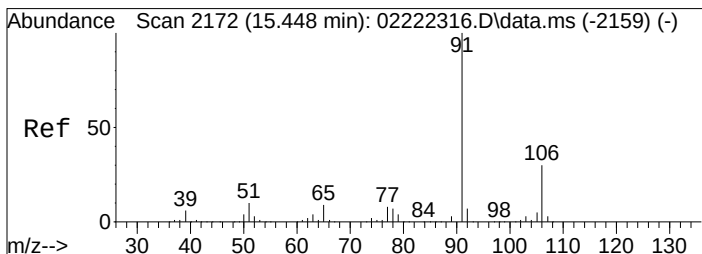
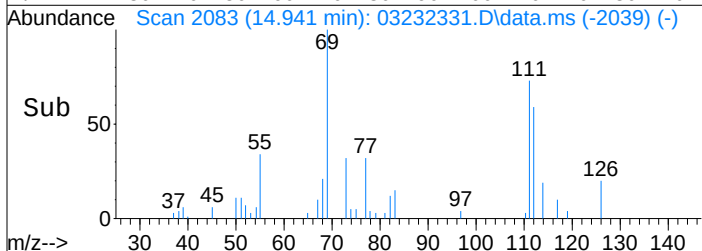
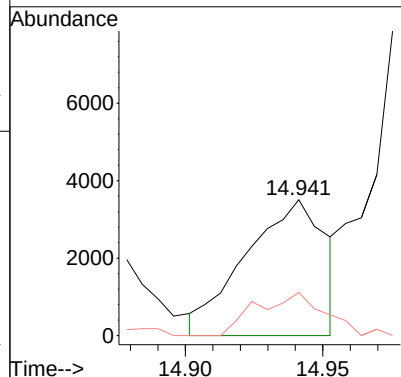
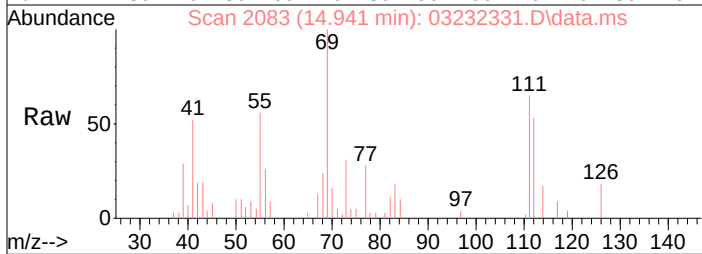
Tgt Ion	Ratio	Lower	Upper
166	100		
164	78.2	57.3	97.3





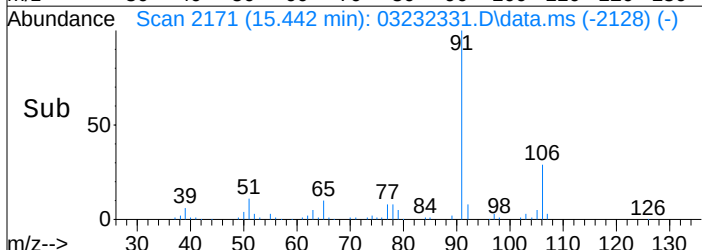
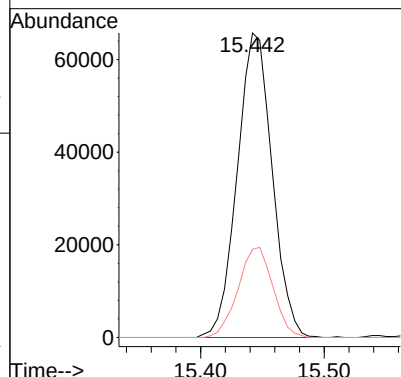
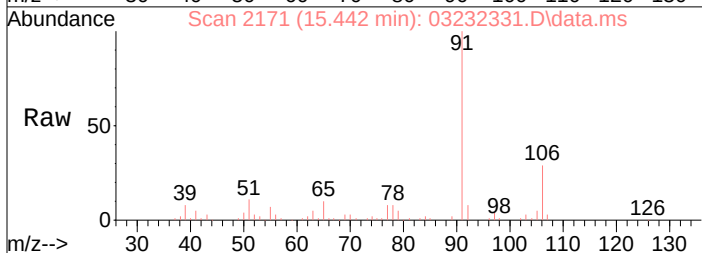
#65
Chlorobenzene
Concen: 0.11 ng
RT: 14.94 min Scan# 2083
Delta R.T. 0.000 min
Lab File: 03232331.D
Acq: 24 Mar 2023 00:13

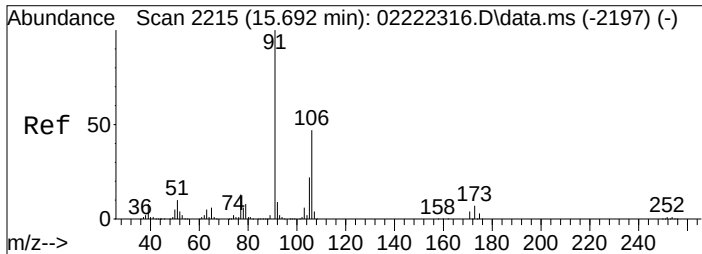
Tgt Ion	Ratio	Lower	Upper
112	100		
114	27.5	12.1	52.1



#66
Ethylbenzene
Concen: 1.09 ng
RT: 15.44 min Scan# 2171
Delta R.T. -0.006 min
Lab File: 03232331.D
Acq: 24 Mar 2023 00:13

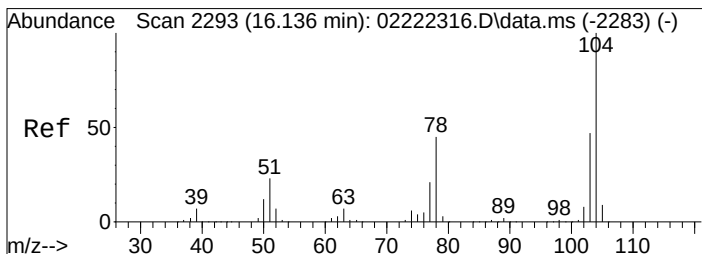
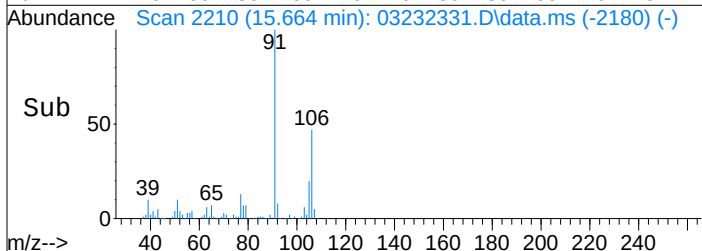
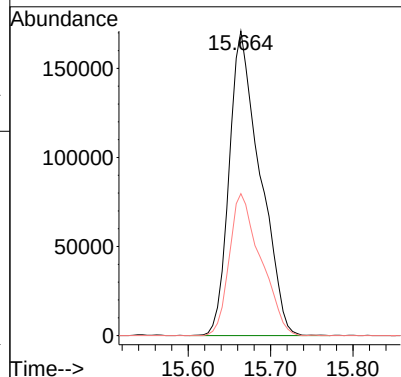
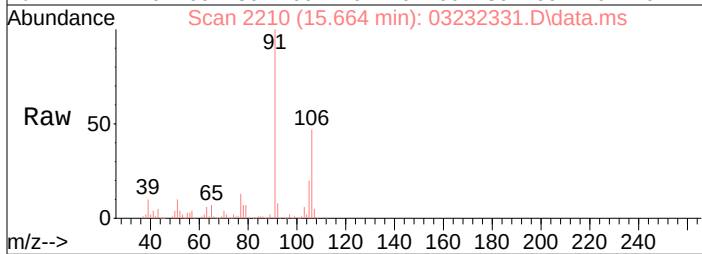
Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.5	10.4	50.4





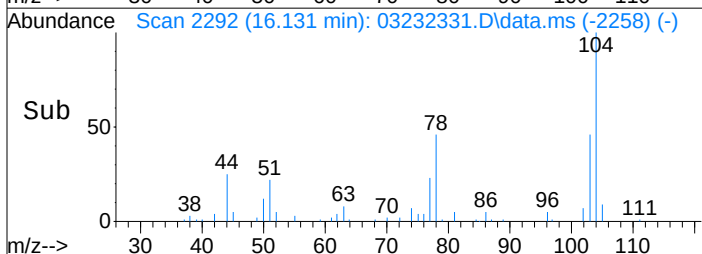
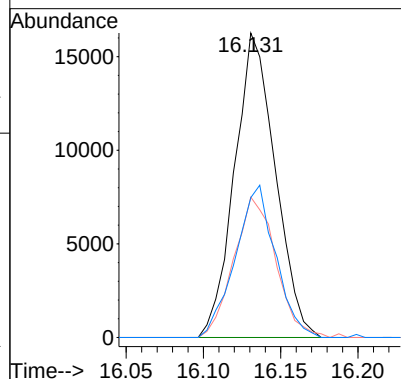
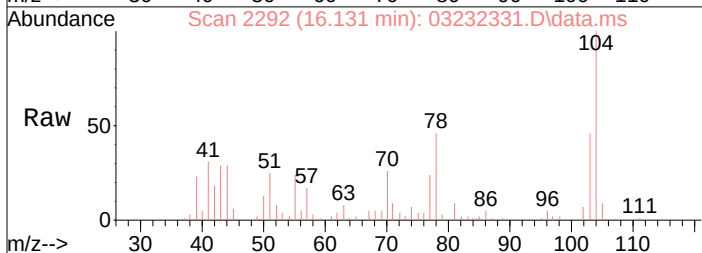
#67
m- & p-Xylenes
Concen: 4.67 ng
RT: 15.66 min Scan# 2210
Delta R.T. -0.028 min
Lab File: 03232331.D
Acq: 24 Mar 2023 00:13

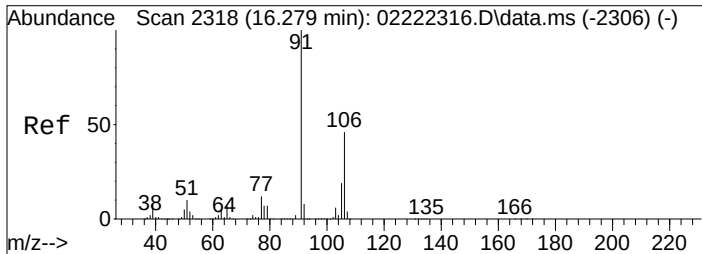
Tgt Ion: 91 Resp: 444515
Ion Ratio Lower Upper
91 100
106 47.5 26.2 66.2



#69
Styrene
Concen: 0.46 ng
RT: 16.13 min Scan# 2292
Delta R.T. -0.006 min
Lab File: 03232331.D
Acq: 24 Mar 2023 00:13

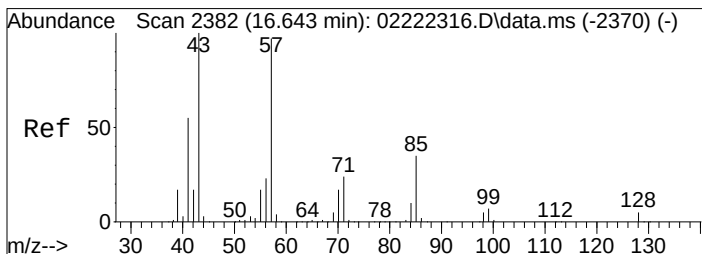
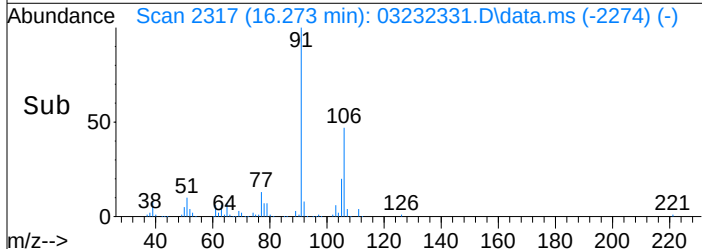
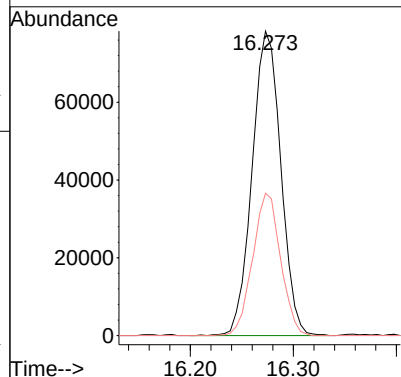
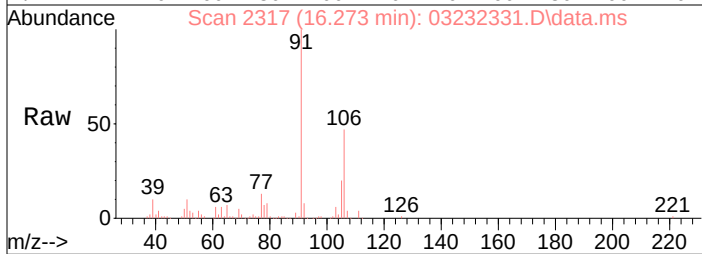
Tgt Ion: 104 Resp: 29905
Ion Ratio Lower Upper
104 100
78 47.9 24.7 64.7
103 49.3 27.8 67.8





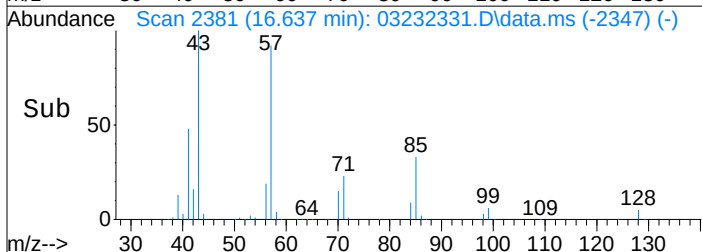
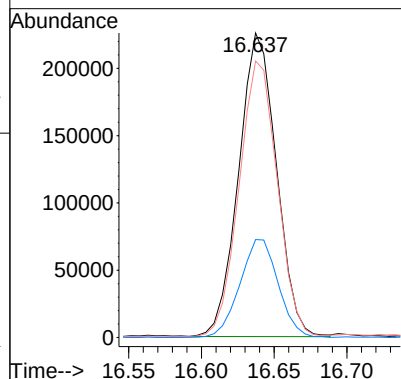
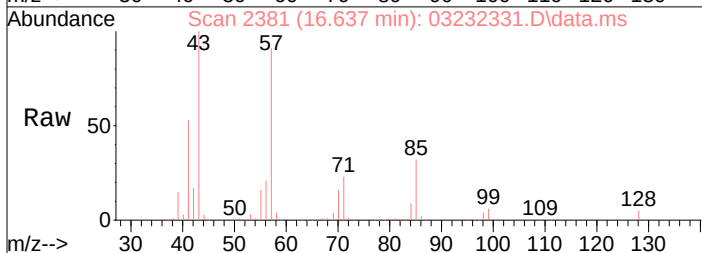
#70
o-Xylene
Concen: 1.67 ng
RT: 16.27 min Scan# 2317
Delta R.T. -0.006 min
Lab File: 03232331.D
Acq: 24 Mar 2023 00:13

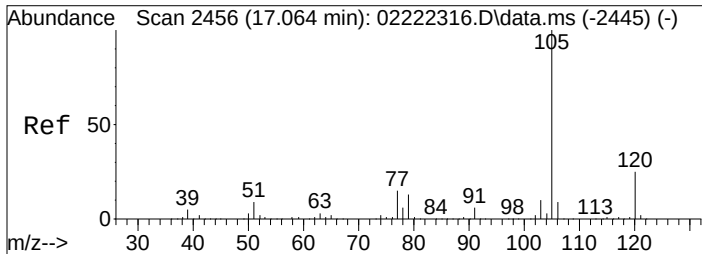
Tgt Ion: 91 Resp: 151643
Ion Ratio Lower Upper
91 100
106 45.5 25.4 65.4



#71
n-Nonane
Concen: 9.26 ng
RT: 16.64 min Scan# 2381
Delta R.T. -0.006 min
Lab File: 03232331.D
Acq: 24 Mar 2023 00:13

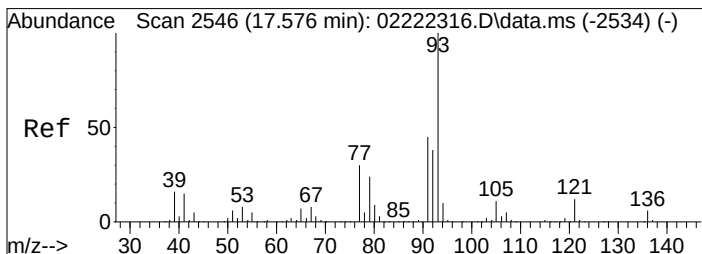
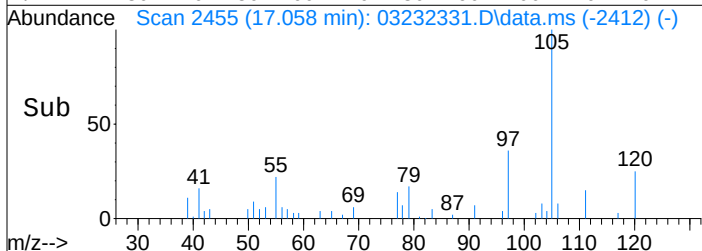
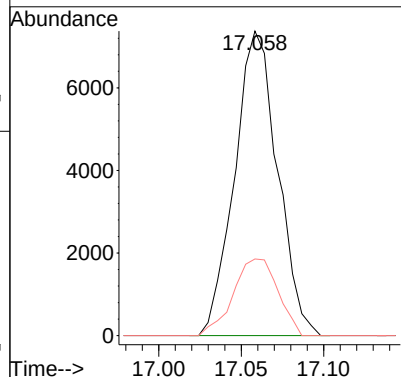
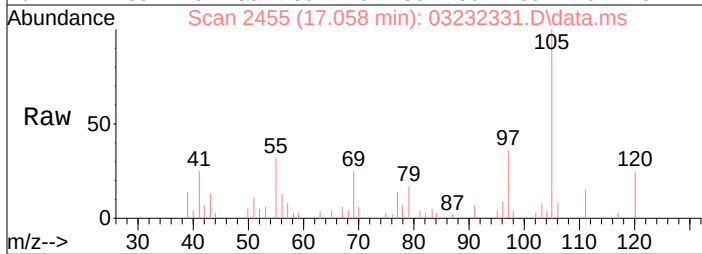
Tgt Ion: 43 Resp: 407803
Ion Ratio Lower Upper
43 100
57 91.5 74.2 114.2
85 32.8 14.2 54.2





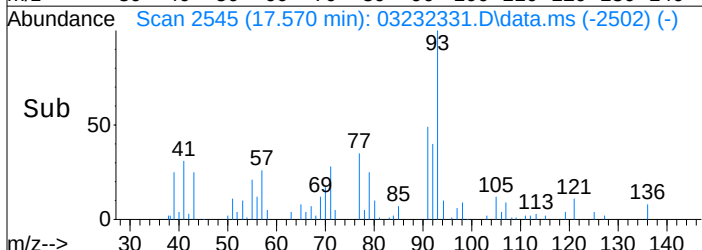
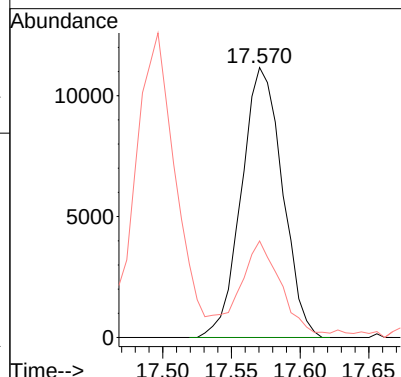
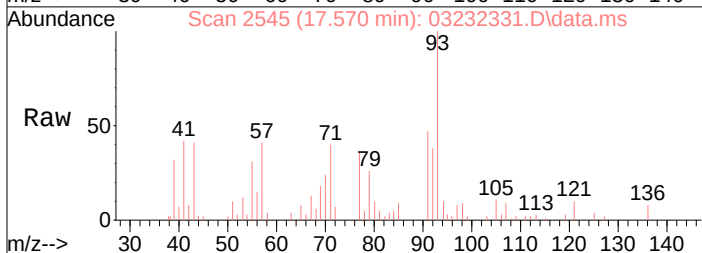
#74
Cumene
Concen: 0.12 ng
RT: 17.06 min Scan# 2455
Delta R.T. -0.006 min
Lab File: 03232331.D
Acq: 24 Mar 2023 00:13

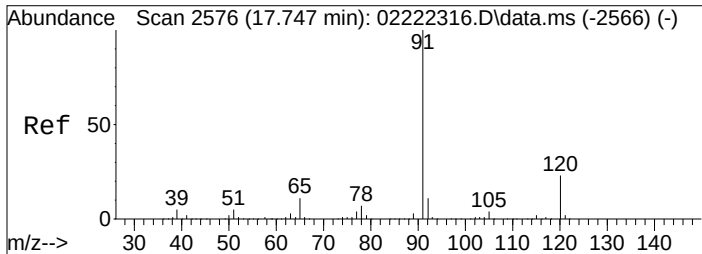
Tgt Ion: 105 Resp: 13348
Ion Ratio Lower Upper
105 100
120 26.3 5.2 45.2



#75
alpha-Pinene
Concen: 0.45 ng
RT: 17.57 min Scan# 2545
Delta R.T. -0.006 min
Lab File: 03232331.D
Acq: 24 Mar 2023 00:13

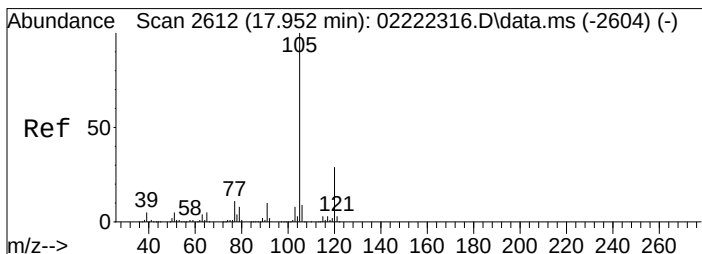
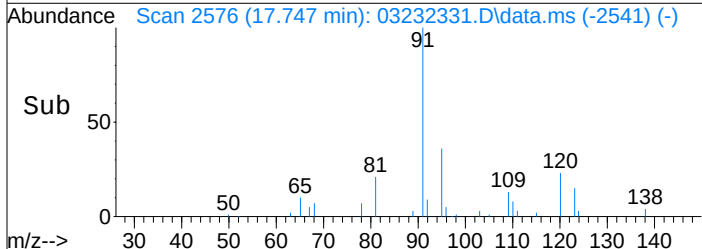
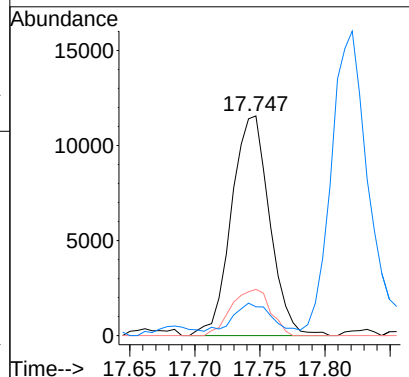
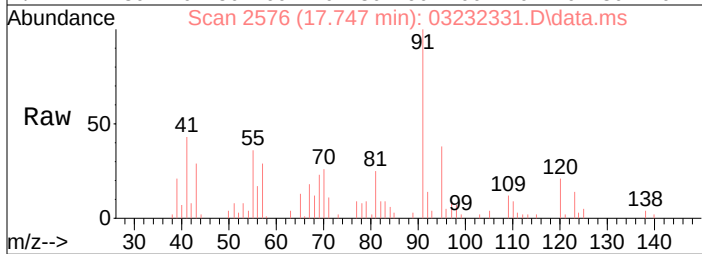
Tgt Ion: 93 Resp: 23181
Ion Ratio Lower Upper
93 100
77 33.0 11.1 51.1





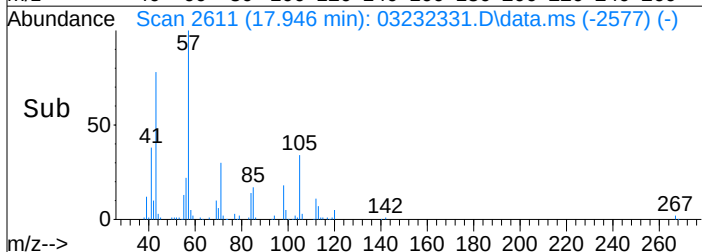
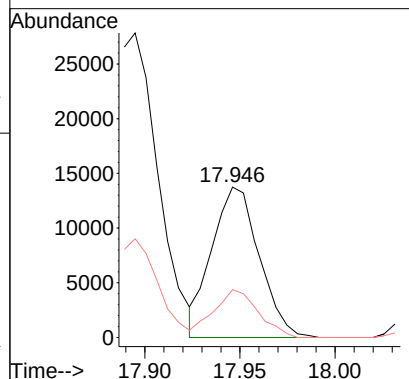
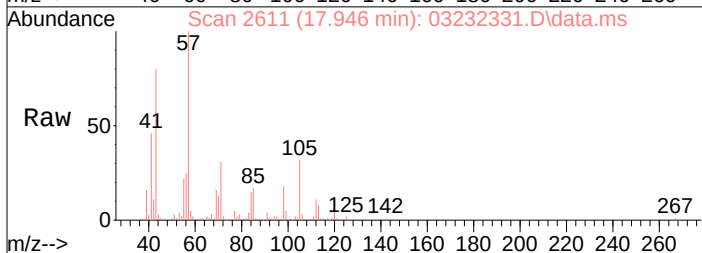
#76
 n-Propylbenzene
 Concen: 0.18 ng
 RT: 17.75 min Scan# 2576
 Delta R.T. 0.000 min
 Lab File: 03232331.D
 Acq: 24 Mar 2023 00:13

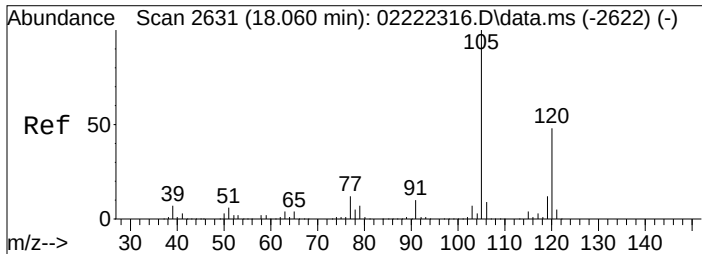
Tgt Ion:	91	Resp:	23545
Ion Ratio		Lower	Upper
91	100		
120	21.5	2.7	42.7
65	12.0	0.0	30.7



#78
 4-Ethyltoluene
 Concen: 0.22 ng
 RT: 17.95 min Scan# 2611
 Delta R.T. -0.006 min
 Lab File: 03232331.D
 Acq: 24 Mar 2023 00:13

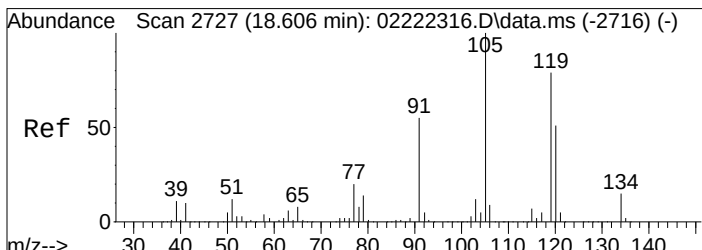
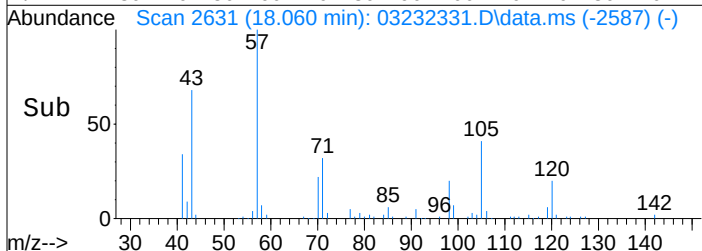
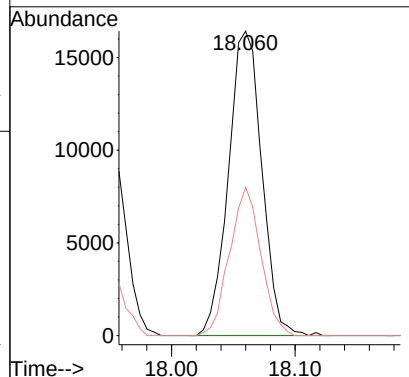
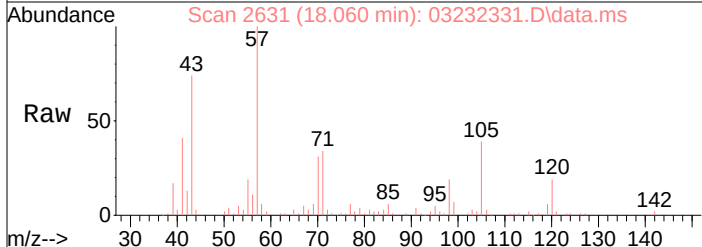
Tgt Ion:	105	Resp:	23825
Ion Ratio		Lower	Upper
105	100		
120	29.9	9.1	49.1





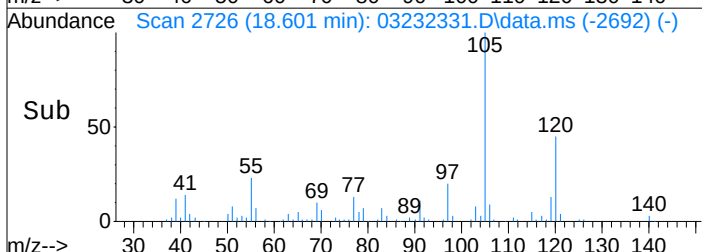
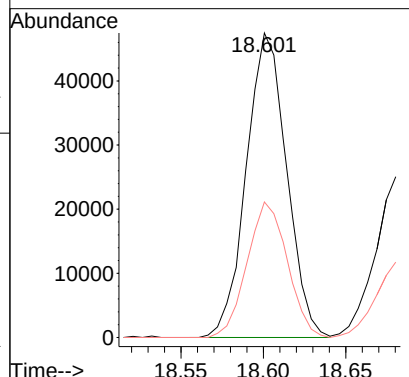
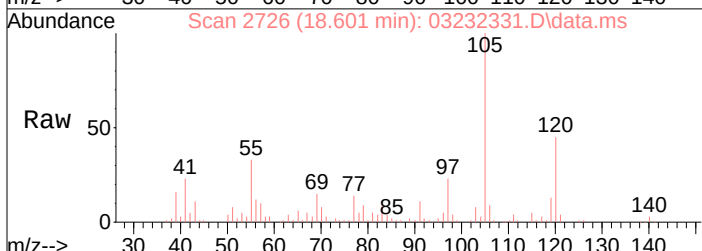
#79
 1,3,5-Trimethylbenzene
 Concen: 0.33 ng
 RT: 18.06 min Scan# 2631
 Delta R.T. 0.000 min
 Lab File: 03232331.D
 Acq: 24 Mar 2023 00:13

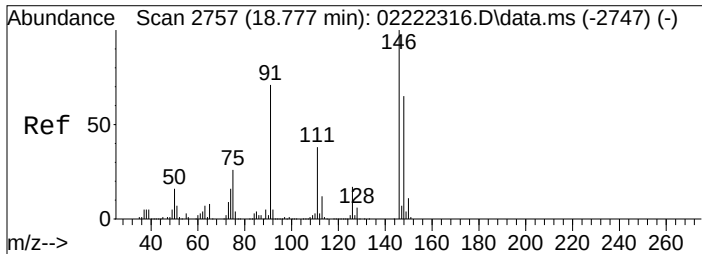
Tgt Ion:	105	Resp:	30814
Ion Ratio	Lower	Upper	
105	100		
120	45.9	28.4	68.4



#82
 1,2,4-Trimethylbenzene
 Concen: 0.87 ng
 RT: 18.60 min Scan# 2726
 Delta R.T. -0.006 min
 Lab File: 03232331.D
 Acq: 24 Mar 2023 00:13

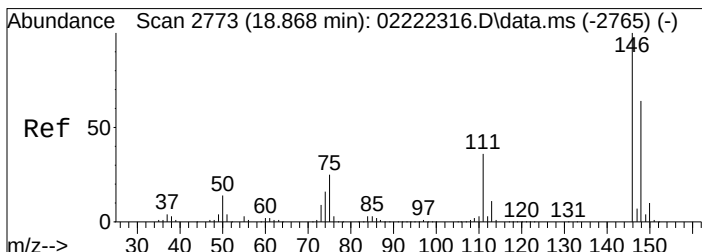
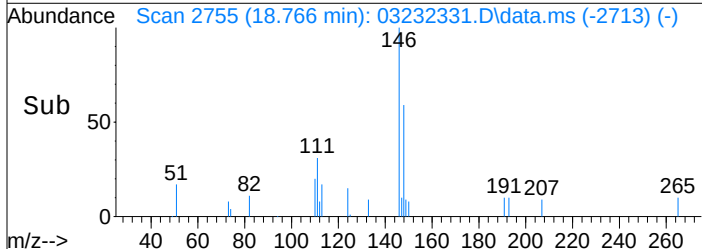
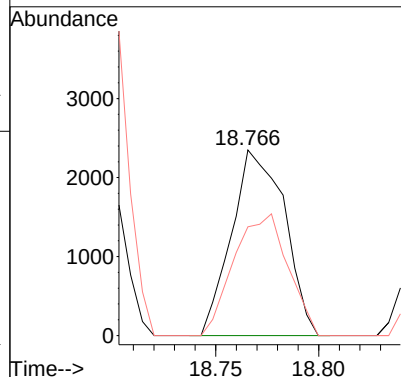
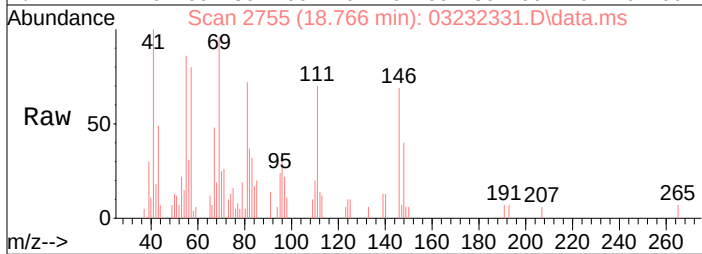
Tgt Ion:	105	Resp:	80802
Ion Ratio	Lower	Upper	
105	100		
120	44.2	32.8	72.8





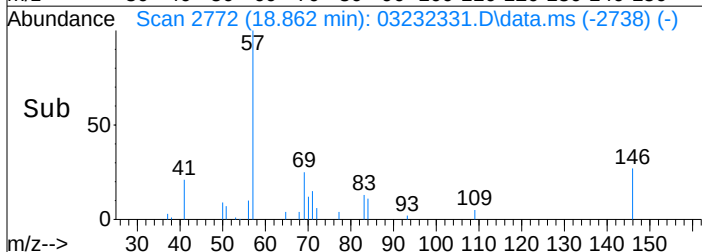
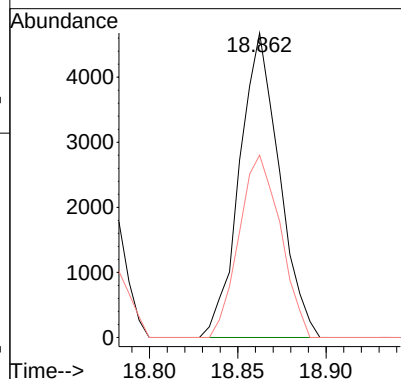
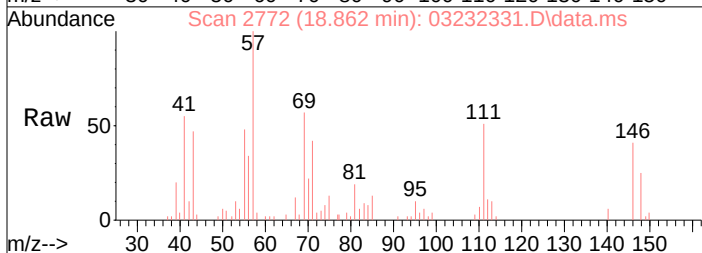
#85
 1,3-Dichlorobenzene
 Concen: 0.07 ng
 RT: 18.77 min Scan# 2755
 Delta R.T. -0.011 min
 Lab File: 03232331.D
 Acq: 24 Mar 2023 00:13

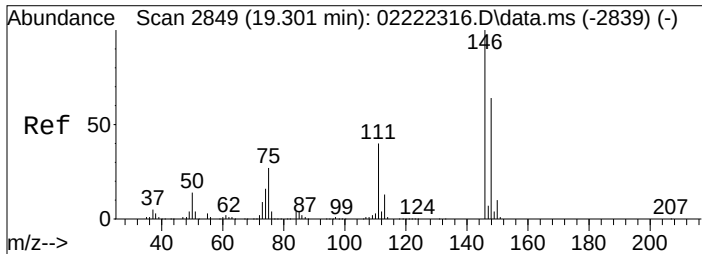
Tgt Ion:146 Resp: 4195
 Ion Ratio Lower Upper
 146 100
 148 66.9 44.4 84.4



#86
 1,4-Dichlorobenzene
 Concen: 0.13 ng
 RT: 18.86 min Scan# 2772
 Delta R.T. -0.006 min
 Lab File: 03232331.D
 Acq: 24 Mar 2023 00:13

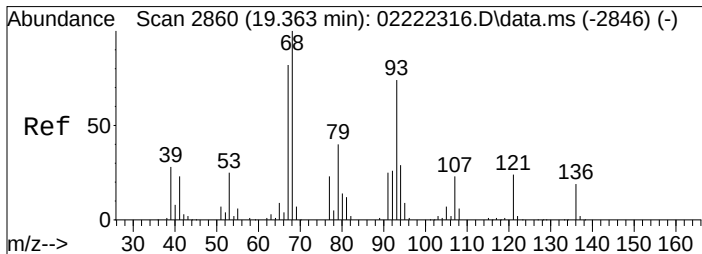
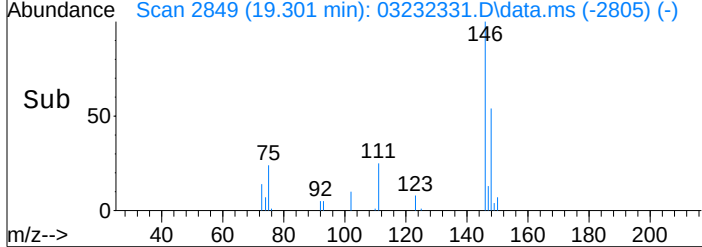
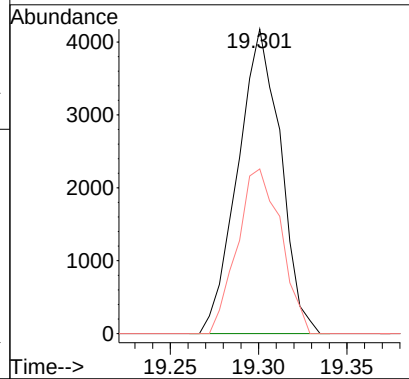
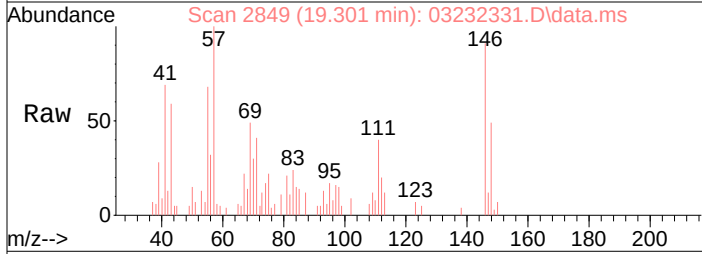
Tgt Ion:146 Resp: 7317
 Ion Ratio Lower Upper
 146 100
 148 62.5 44.7 84.7





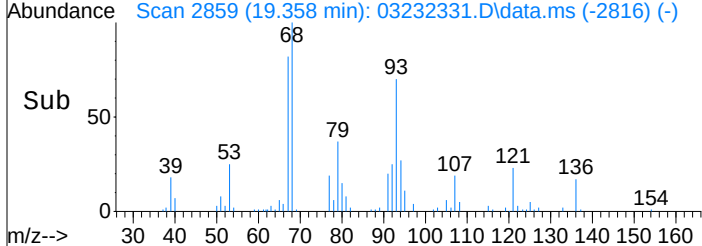
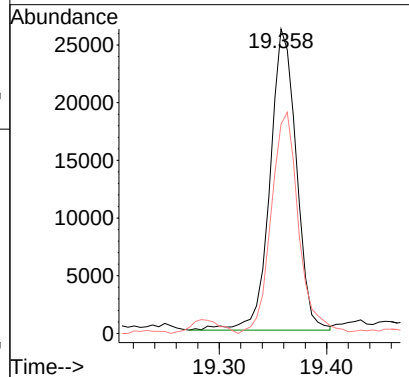
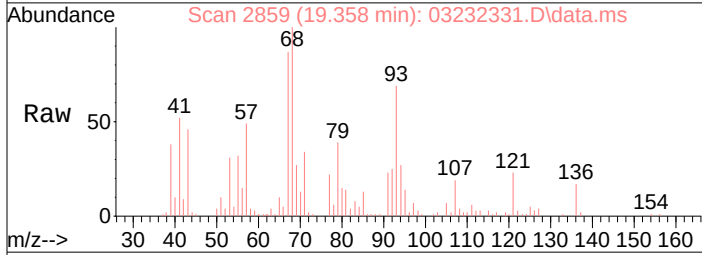
#90
 1,2-Dichlorobenzene
 Concen: 0.13 ng
 RT: 19.30 min Scan# 2849
 Delta R.T. 0.000 min
 Lab File: 03232331.D
 Acq: 24 Mar 2023 00:13

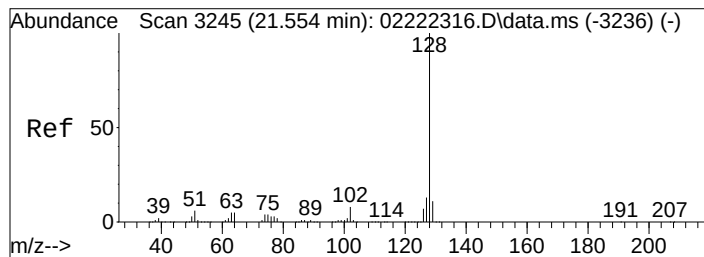
Tgt Ion	Ratio	Lower	Upper
146	100		
148	55.4	44.4	84.4



#91
 d-Limonene
 Concen: 1.42 ng
 RT: 19.36 min Scan# 2859
 Delta R.T. -0.006 min
 Lab File: 03232331.D
 Acq: 24 Mar 2023 00:13

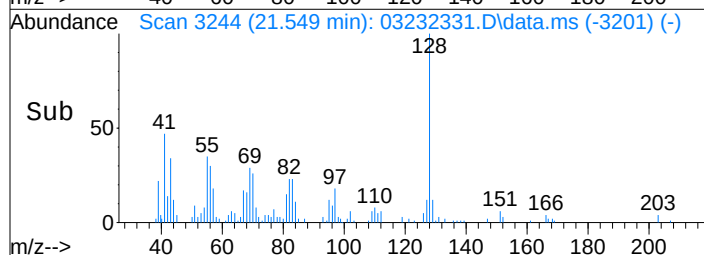
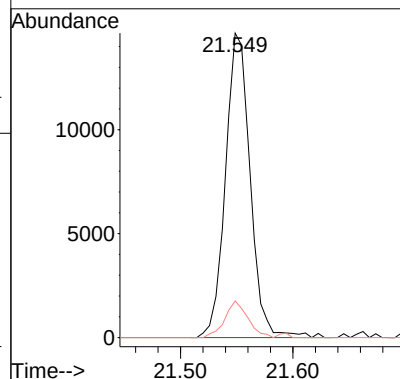
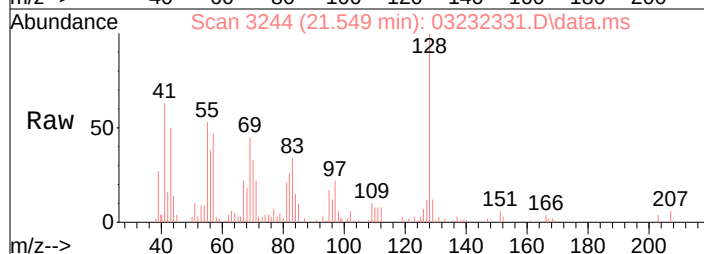
Tgt Ion	Ratio	Lower	Upper
68	100		
93	76.6	54.8	94.8





#95
 Naphthalene
 Concen: 0.22 ng
 RT: 21.55 min Scan# 3244
 Delta R.T. -0.006 min
 Lab File: 03232331.D
 Acq: 24 Mar 2023 00:13

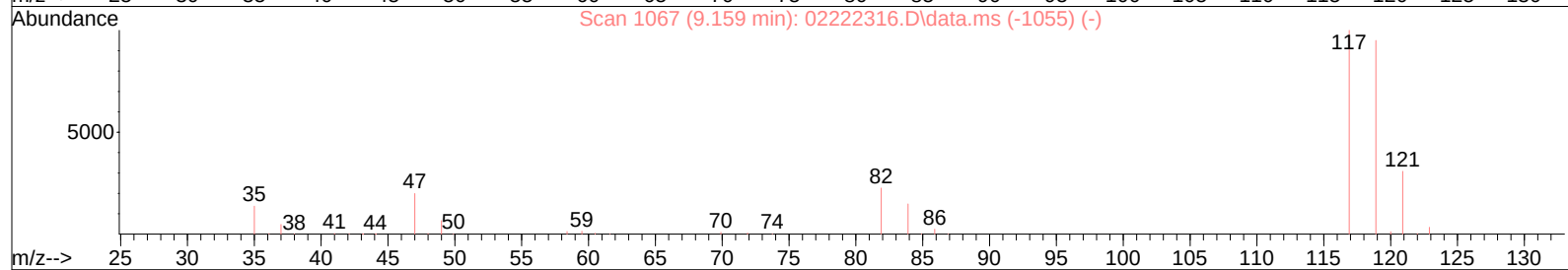
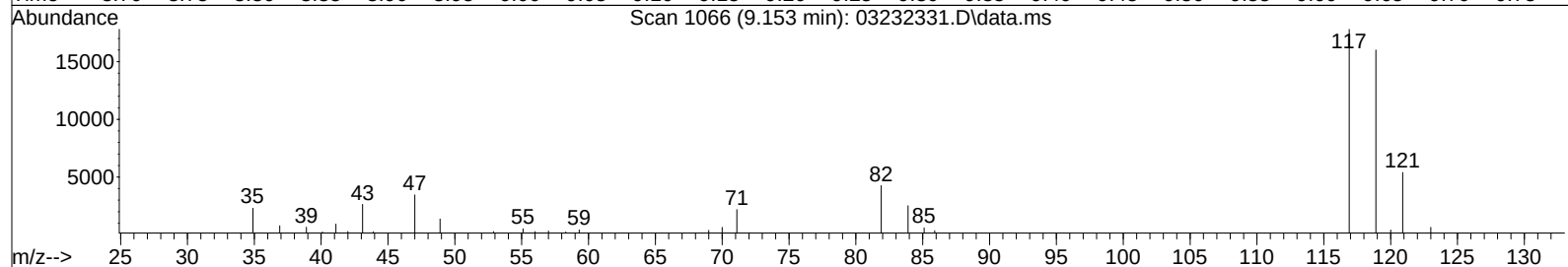
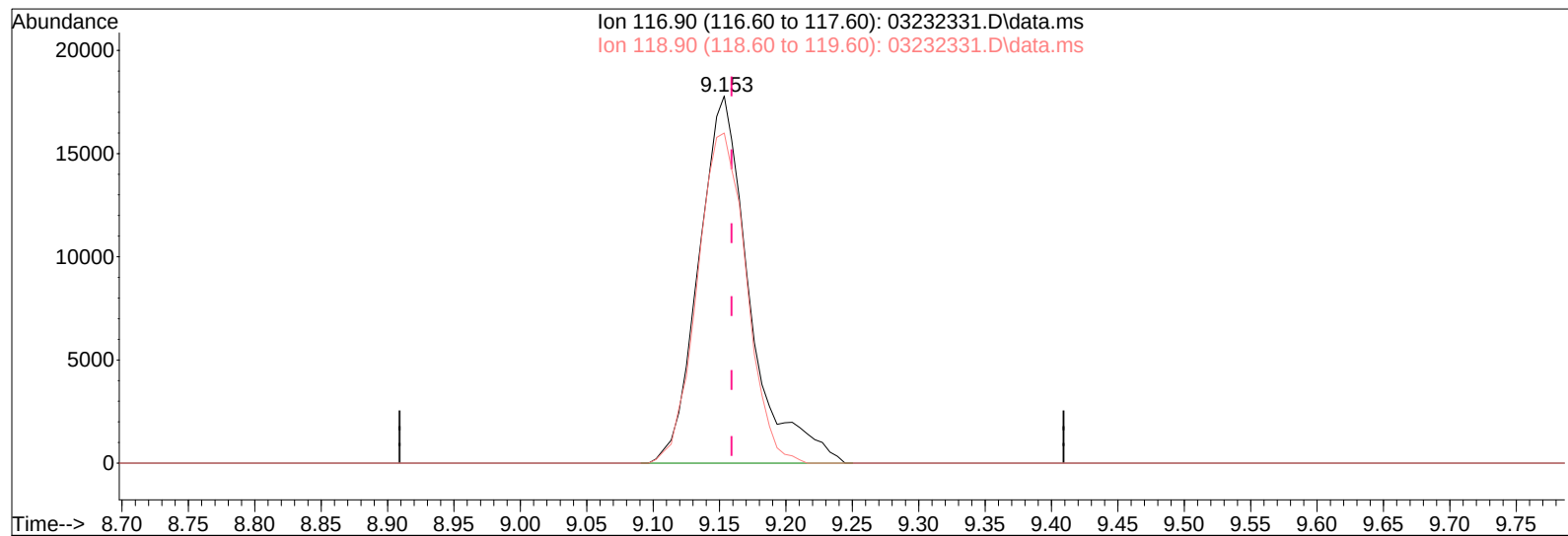
Tgt Ion:128 Resp: 22380
 Ion Ratio Lower Upper
 128 100
 129 11.2 0.0 30.9



Data File : I:\MS13\DATA\2023_03\23\03232331.D
Acq On : 24 Mar 2023 00:13
Sample : P2301250-007 (1000mL)
Misc : S35-01202301

Vial: 14
Operator: TZ
Inst : MS13

Quant Time: Mar 27 11:06:15 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03232331.D\data.ms

(42) Carbon Tetrachloride (T)

9.153min (-0.006) 1.49ng

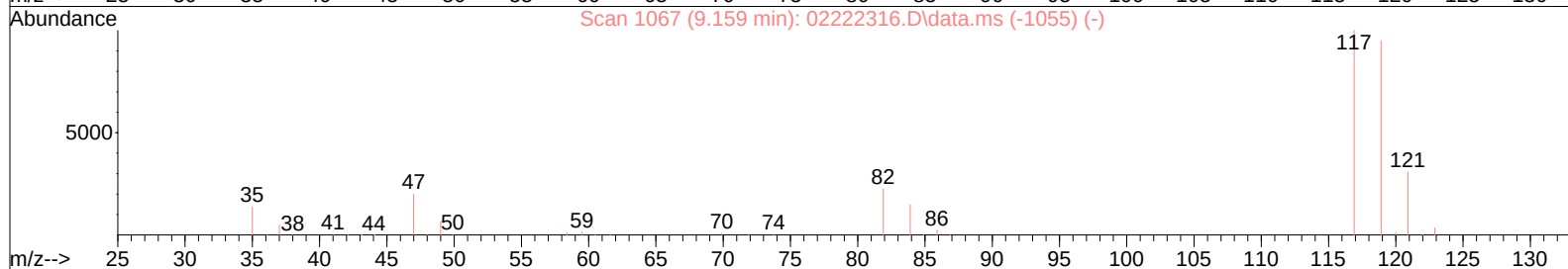
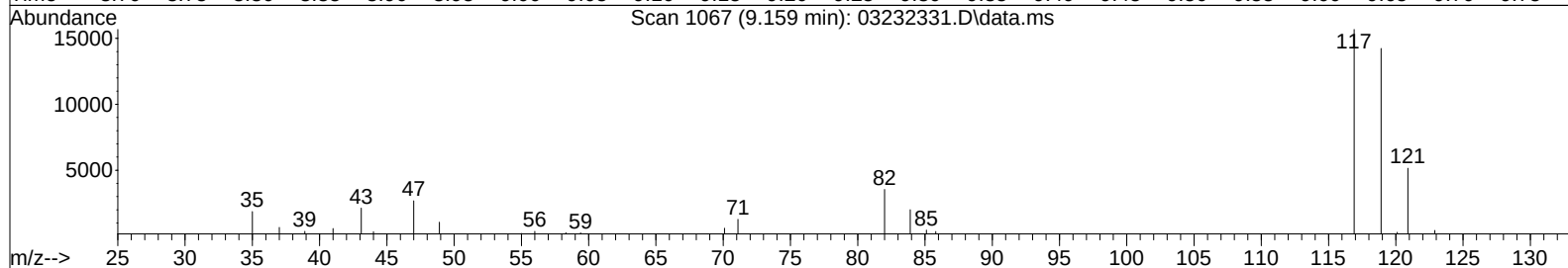
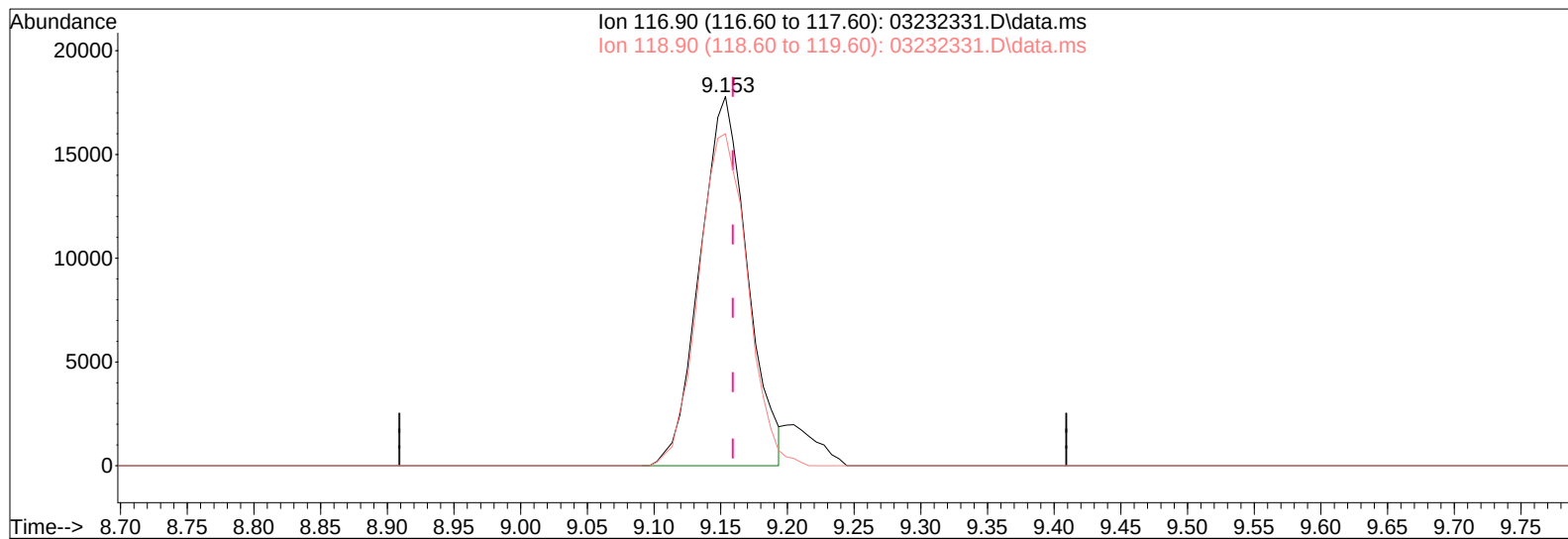
response 47346

Ion	Exp%	Act%
116.90	100	100
118.90	95.70	86.60
0.00	0.00	0.00
0.00	0.00	0.00

Data File : I:\MS13\DATA\2023_03\23\03232331.D
Acq On : 24 Mar 2023 00:13
Sample : P2301250-007 (1000mL)
Misc : S35-01202301

Vial: 14
Operator: TZ
Inst : MS13

Quant Time: Mar 27 11:06:15 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03232331.D\data.ms

(42) Carbon Tetrachloride (T)

9.153min (-0.006) 1.38ng m

response 43894

IPC

Ion	Exp%	Act%
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TZ 3/27/23

116.90	100	100
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118.90	95.70	93.41
--------	-------	-------

3/28/23

0.00	0.00	0.00
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0.00	0.00	0.00
------	------	------

Data File : I:\MS13\DATA\2023_03\23\03232331.D
 Acq On : 24 Mar 2023 00:13
 Sample : P2301250-007 (1000mL)
 Misc : S35-01202301

Vial: 14
 Operator: TZ
 Inst : MS13

TZ 3/27/23

Quant Time: Mar 27 16:00:46 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.33	130	246953	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	9.39	114	1087274	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	14.88	54	202509	12.500	ng	0.00

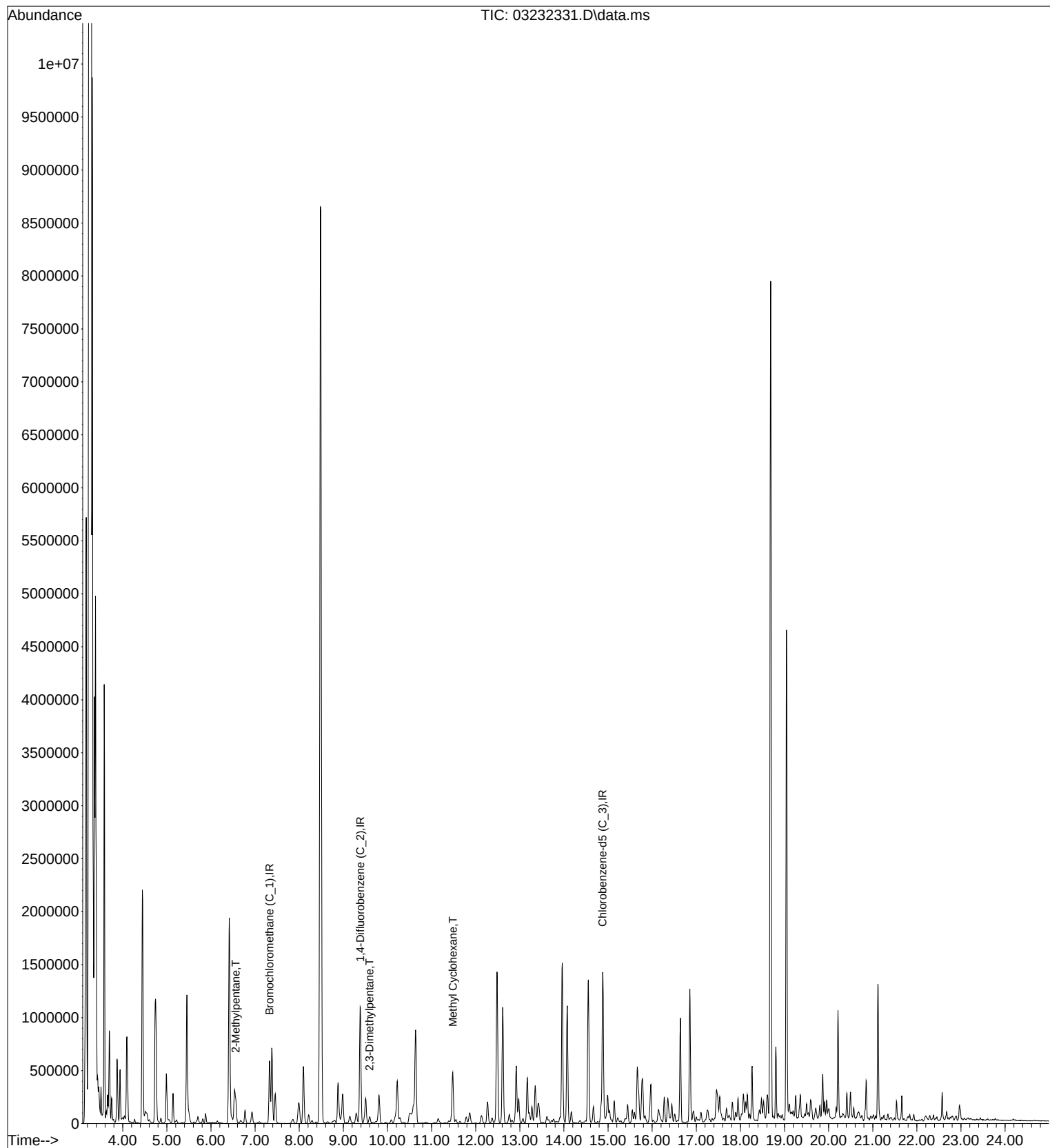
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	0.00	85	0	N.D.	d	
3) 1,1,1,2-Tetrafluoroeth...	0.00	83	0	N.D.	d	
4) 1,1-Difluoroethane	0.00	65	0	N.D.	d	
5) Chlorodifluoromethane ...	0.00	67	0	N.D.	d	
6) 1-Chloro-1,1-Difluoroe...	3.59	65	120	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	4.66	83	673	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	0.00	43	0	N.D.	d	
12) 2-Methylpentane	6.56	71	39699	2.301	ng	# 61
13) 2,2-Dichloropropane	7.39	77	59	N.D.		
14) 1,1-Dichloropropene	8.85	75	712	N.D.		
15) Thiophene	0.00	84	0	N.D.	d	
17) 2,3-Dimethylpentane	9.59	56	33916	1.059	ng	92
18) Dibromomethane	9.88	174	597	N.D.		
20) Methyl Cyclohexane	11.48	55	207225	6.147	ng	92
21) 1,3-Dichloropropane	0.00	76	0	N.D.	d	
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	15.23	91	1055	N.D.		
24) 1,2,3-Trichloropropane	16.42	75	711	N.D.		
25) Bromobenzene	17.14	77	189	N.D.		
26) 2-Chlorotoluene	17.66	91	658	N.D.		
27) 4-Chlorotoluene	0.00	91	0	N.D.	d	
28) Indane	19.39	117	7765	N.D.		
29) Indene	19.51	115	2024	N.D.		
30) 1,2,4,5-Tetramethylben...	20.69	119	9254	N.D.		
31) 1,2,3,4-Tetramethylben...	20.69	119	9254	N.D.		
32) 1,2,3,5-Tetramethylben...	0.00	119	0	N.D.	d	
33) 1,2,3-Trichlorobenzene	21.87	180	81	N.D.		

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

Data File : I:\MS13\DATA\2023_03\23\03232331.D
Acq On : 24 Mar 2023 00:13
Sample : P2301250-007 (1000mL)
Misc : S35-01202301

Vial: 14
Operator: TZ
Inst : MS13

Quant Time: Mar 27 16:00:46 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M

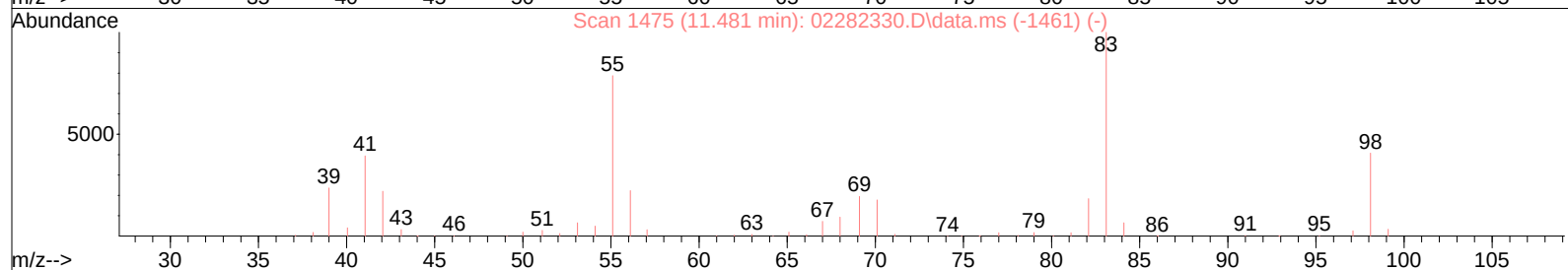
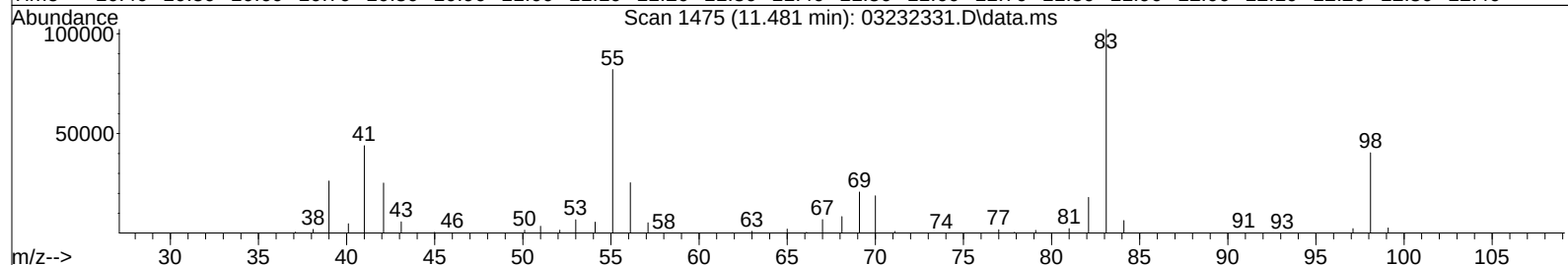
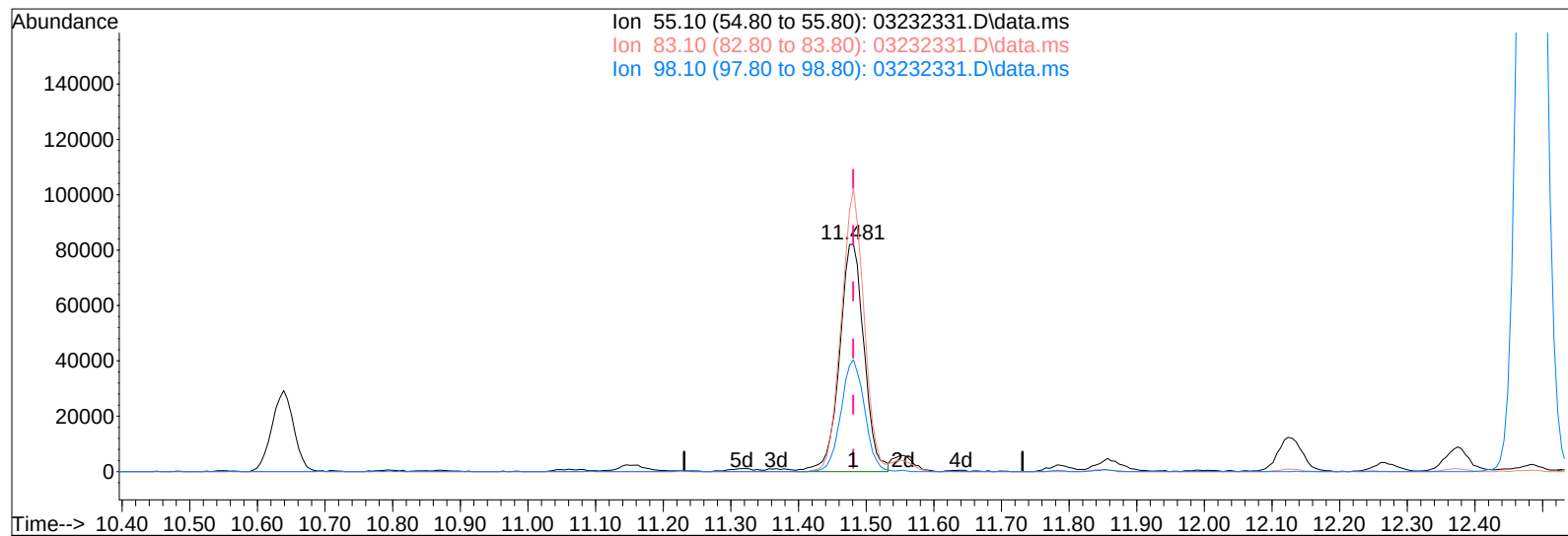


Quantitation Report (Qedit)

Data File : I:\MS13\DATA\2023_03\23\03232331.D
 Acq On : 24 Mar 2023 00:13
 Sample : P2301250-007 (1000mL)
 Misc : S35-01202301

Vial: 14
 Operator: TZ
 Inst : MS13

Quant Time: Mar 27 14:40:09 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M



TIC: 03232331.D\data.ms

(20) Methyl Cyclohexane (T)

11.481min (+0.000) 6.15ng

response 207225

Ion	Exp%	Act%
55.10	100	100
83.10	128.30	119.06
98.10	53.10	46.93
0.00	0.00	0.00

Data File : I:\MS13\DATA\2023_03\24\03242307.D
 Acq On : 24 Mar 2023 9:05
 Sample : P2301250-007dil (100mL)
 Misc : S35-01202301

Vial: 14
 Operator: TZ
 Inst : MS13

Tz 3/27/23

Quant Time: Mar 27 11:41:07 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	242747	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	9.38	114	1044426	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	188566	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	401548	12.465	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	99.68%
57) Toluene-d8 (SS2)	12.48	98	1170484	12.070	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	96.56%
73) Bromofluorobenzene (SS3)	16.85	174	424634	11.955	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	95.68%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	3.46	85	7060	0.159	ng	96
4) Chloromethane	3.58	50	417	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	3.82	62	135	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	4.42	45	267828	15.535	ng	100
11) Acetonitrile	4.57	41	1119	N.D.		
12) Acrolein	4.66	56	240	N.D.		
13) Acetone	4.75	58	41625	2.829	ng	95
14) Trichlorofluoromethane	4.87	101	2713	0.068	ng	94
15) 2-Propanol (Isopropanol)	4.96	45	61965	1.043	ng	94
16) Acrylonitrile	5.11	53	133	N.D.		
17) 1,1-Dichloroethene	5.37	96	133	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.46	84	8866	0.411	ng	91
20) 3-Chloro-1-propene (Al...	5.61	41	126	N.D.		
21) Trichlorotrifluoroethane	5.68	151	714	N.D.		
22) Carbon Disulfide	5.73	76	14080	0.165	ng	97
23) trans-1,2-Dichloroethene	6.16	61	808	N.D.		
24) 1,1-Dichloroethane	6.41	63	54145	1.410	ng	99
25) Methyl tert-Butyl Ether	6.39	73	2242	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	6.77	72	3190	0.244	ng	# 79
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	7.37	61	7439	0.866	ng	97
31) n-Hexane	7.39	57	12556	0.380	ng	96
32) Chloroform	7.45	83	22325	0.571	ng	100
34) Tetrahydrofuran (THF)	7.87	72	1108	0.083	ng	# 49
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.08	62	246	N.D.		
38) 1,1,1-Trichloroethane	8.47	97	661587	19.138	ng	99
39) Isopropyl Acetate	9.38	61	29342	No Calib		
40) 1-Butanol	8.90	56	22738	No Calib	#	
41) Benzene	8.98	78	26207	0.323	ng	98
42) Carbon Tetrachloride	9.15	117	3733	0.122	ng	96
43) Cyclohexane	9.29	84	3710	0.125	ng	88
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	10.14	83	582	N.D.		
47) Trichloroethene	10.22	130	14056	0.591	ng	92
48) 1,4-Dioxane	10.21	88	490	N.D.		
49) 2,2,4-Trimethylpentane...	10.29	57	1109	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS13\DATA\2023_03\24\03242307.D
 Acq On : 24 Mar 2023 9:05
 Sample : P2301250-007dil (100mL)
 Misc : S35-01202301

Vial: 14
 Operator: TZ
 Inst : MS13

Quant Time: Mar 27 11:41:07 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.63	71	22622	1.151	ng	96
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.41	58	608	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.61	91	90934	0.985	ng	99
59) 2-Hexanone	0.00	43	0	N.D.	d	
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.84	43	1733	N.D.		
63) n-Octane	13.96	57	26595	1.465	ng	95
64) Tetrachloroethene	14.07	166	38702	1.378	ng	99
65) Chlorobenzene	14.93	112	534	N.D.		
66) Ethylbenzene	15.44	91	11642	0.106	ng	100
67) m- & p-Xylenes	15.66	91	40603	0.458	ng	100
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.14	104	2968	N.D.		
70) o-Xylene	16.27	91	13656	0.161	ng	99
71) n-Nonane	16.64	43	38576	0.941	ng	94
72) 1,1,2,2-Tetrachloroethane	16.15	83	390	N.D.		
74) Cumene	17.06	105	1652	N.D.		
75) alpha-Pinene	17.57	93	2233	N.D.		
76) n-Propylbenzene	17.74	91	2617	N.D.		
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	2427	N.D.		
79) 1,3,5-Trimethylbenzene	18.06	105	3169	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.60	105	7399	0.086	ng	88
83) n-Decane	17.13	58	176	No Calib	#	
84) Benzyl Chloride	18.75	91	1000	N.D.		
85) 1,3-Dichlorobenzene	18.77	146	556	N.D.		
86) 1,4-Dichlorobenzene	18.86	146	866	N.D.		
87) sec-Butylbenzene	18.96	105	860	N.D.		
88) 4-Isopropyltoluene (p-...	19.18	119	1717	N.D.		
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.30	146	908	N.D.		
91) d-Limonene	19.36	68	4105	0.141	ng	98
92) 1,2-Dibromo-3-Chloropr...	19.86	157	345	N.D.		
93) n-Undecane	18.27	58	754	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	2254	0.058	ng	91
95) Naphthalene	21.55	128	6743	0.072	ng	97
96) n-Dodecane	19.15	58	202	No Calib	#	
97) Hexachlorobutadiene	21.98	225	352	N.D.		
98) Cyclohexanone	15.66	55	685	No Calib	#	
99) tert-Butylbenzene	18.59	119	1434	N.D.		
100) n-Butylbenzene	19.71	91	2822	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242307.D
Acq On : 24 Mar 2023 9:05
Sample : P2301250-007dil (100mL)
Misc : S35-01202301

Vial: 14
Operator: TZ
Inst : MS13

Quant Time: Mar 27 11:41:07 2023

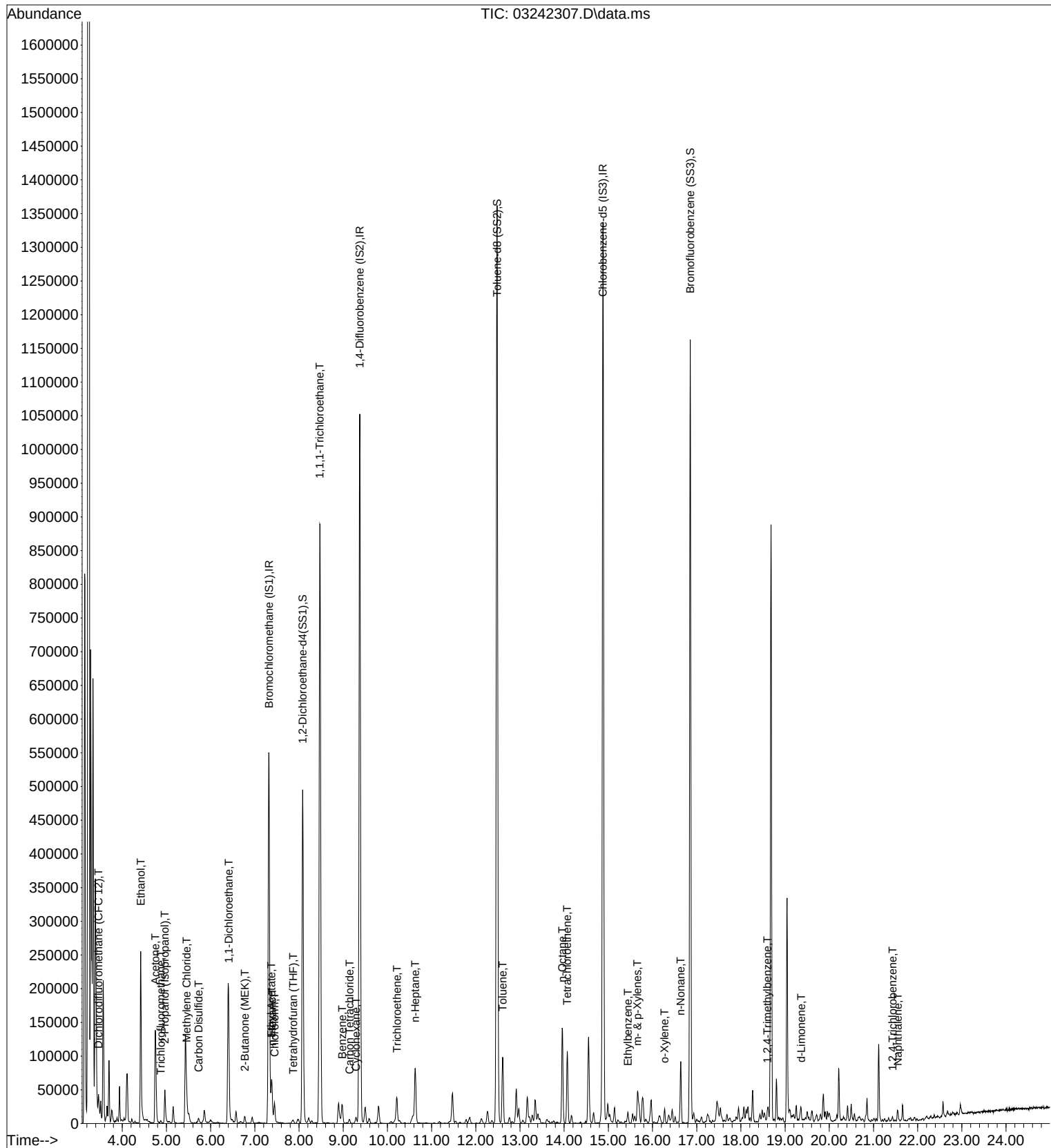
Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

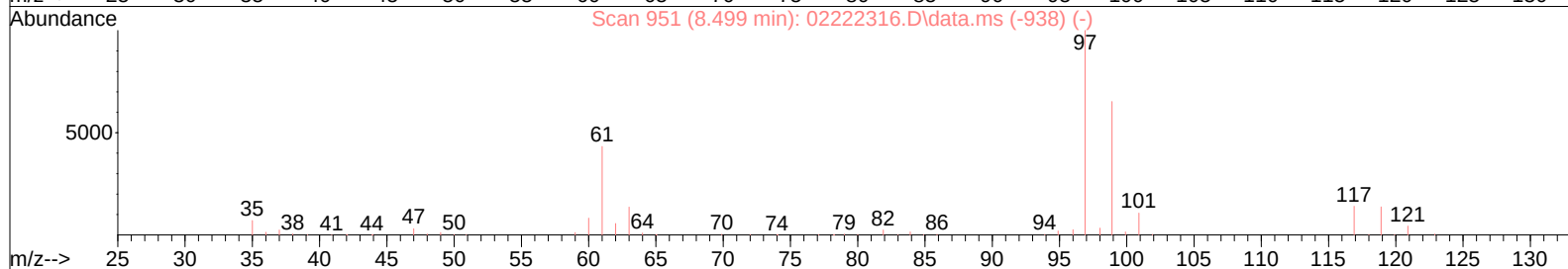
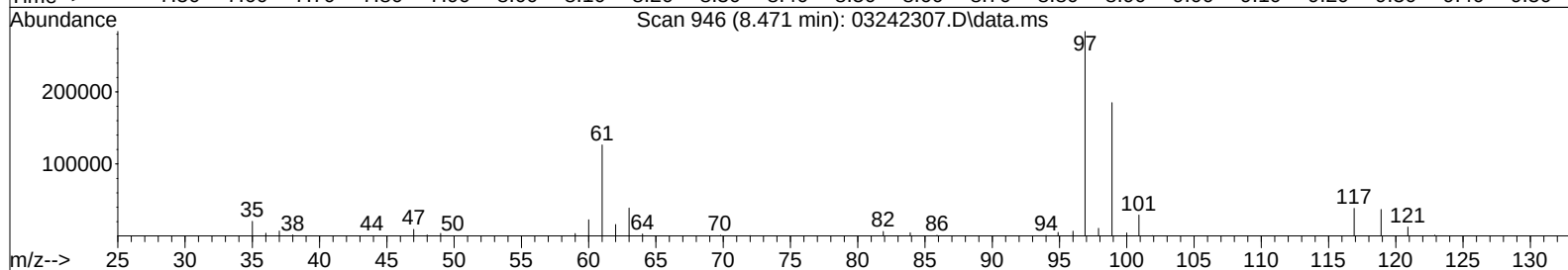
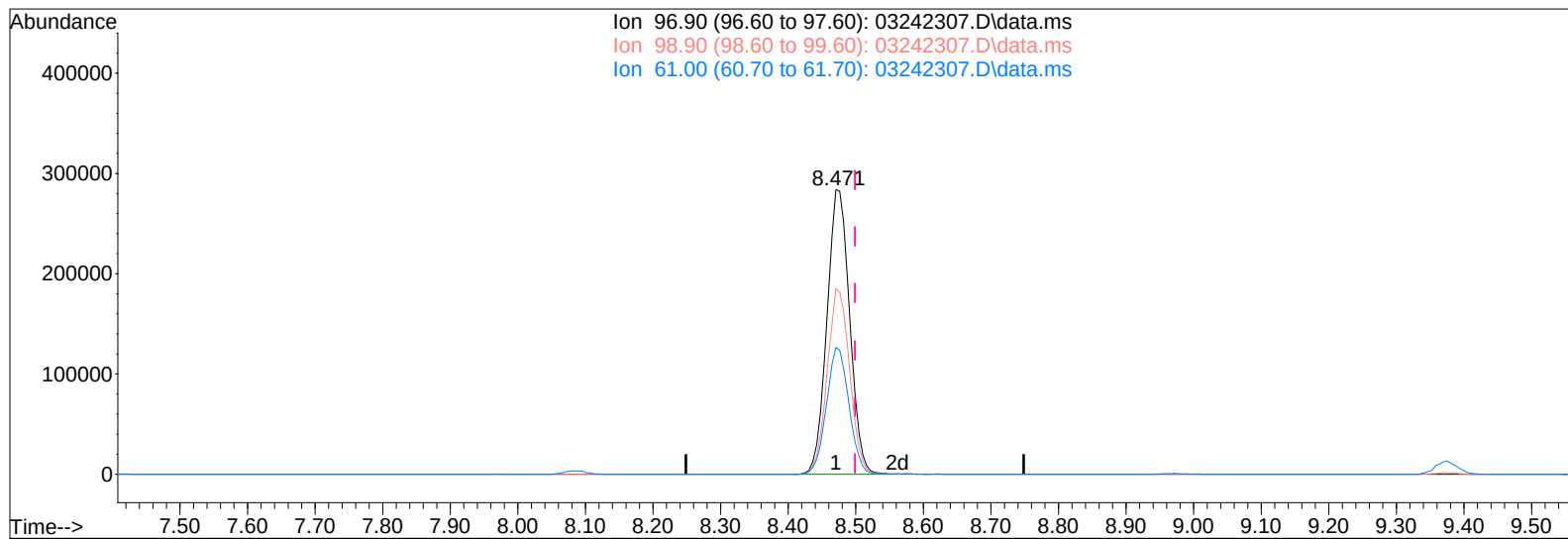
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242307.D
Acq On : 24 Mar 2023 9:05
Sample : P2301250-007dil (100mL)
Misc : S35-01202301

Vial: 14
Operator: TZ
Inst : MS13

Quant Time: Mar 24 10:49:55 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03242307.D\data.ms

(38) 1,1,1-Trichloroethane (T)

8.471min (-0.028) 19.14ng

response 661587

Ion	Exp%	Act%
96.90	100	100
98.90	64.90	64.61
61.00	43.50	44.20
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG6A-1

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01226

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 0.50 Liter(s)

Initial Pressure (psig): -4.02 Final Pressure (psig): 3.83

Container Dilution Factor: 1.74

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.5	1.8	0.30	0.51	0.37	0.061	
74-87-3	Chloromethane	ND	0.73	0.30	ND	0.35	0.14	
75-01-4	Vinyl Chloride	ND	0.38	0.20	ND	0.15	0.078	
74-83-9	Bromomethane	ND	0.73	0.26	ND	0.19	0.066	
75-00-3	Chloroethane	ND	0.73	0.23	ND	0.28	0.087	
67-64-1	Acetone	44	18	4.2	18	7.7	1.8	
75-69-4	Trichlorofluoromethane	1.1	1.8	0.28	0.19	0.32	0.050	J
75-35-4	1,1-Dichloroethene	ND	0.38	0.26	ND	0.097	0.065	
75-09-2	Methylene Chloride	6.4	1.8	0.52	1.8	0.53	0.15	
76-13-1	Trichlorotrifluoroethane	0.53	1.9	0.26	0.069	0.25	0.035	J
75-15-0	Carbon Disulfide	1.7	3.7	0.56	0.55	1.2	0.18	J
156-60-5	trans-1,2-Dichloroethene	ND	0.38	0.26	ND	0.097	0.065	
75-34-3	1,1-Dichloroethane	0.79	0.38	0.27	0.20	0.095	0.067	
1634-04-4	Methyl tert-Butyl Ether	ND	1.9	0.22	ND	0.52	0.061	
78-93-3	2-Butanone (MEK)	1.6	3.6	0.38	0.54	1.2	0.13	J
156-59-2	cis-1,2-Dichloroethene	ND	0.38	0.26	ND	0.097	0.066	
67-66-3	Chloroform	58	0.38	0.25	12	0.078	0.051	
107-06-2	1,2-Dichloroethane	ND	0.38	0.21	ND	0.095	0.051	
71-55-6	1,1,1-Trichloroethane	34	0.38	0.23	6.3	0.070	0.042	
71-43-2	Benzene	1.1	0.38	0.27	0.36	0.12	0.084	
56-23-5	Carbon Tetrachloride	4.1	0.38	0.26	0.65	0.061	0.041	
110-82-7	Cyclohexane	ND	3.7	0.52	ND	1.1	0.15	
78-87-5	1,2-Dichloropropane	ND	0.38	0.23	ND	0.083	0.050	
75-27-4	Bromodichloromethane	1.8	0.38	0.27	0.27	0.057	0.040	
79-01-6	Trichloroethene	65	0.38	0.25	12	0.071	0.047	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG6A-1

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01226

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 0.50 Liter(s)

Initial Pressure (psig): -4.02 Final Pressure (psig): 3.83

Container Dilution Factor: 1.74

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	1.9	0.29	ND	0.41	0.064	
108-10-1	4-Methyl-2-pentanone	0.95	3.8	0.25	0.23	0.93	0.062	J
10061-02-6	trans-1,3-Dichloropropene	ND	1.8	0.38	ND	0.39	0.084	
79-00-5	1,1,2-Trichloroethane	ND	0.38	0.19	ND	0.070	0.034	
108-88-3	Toluene	5.8	1.8	0.23	1.5	0.49	0.060	
591-78-6	2-Hexanone	0.36	3.8	0.23	0.088	0.93	0.056	J
124-48-1	Dibromochloromethane	ND	0.38	0.24	ND	0.045	0.029	
106-93-4	1,2-Dibromoethane	ND	0.38	0.22	ND	0.050	0.028	
127-18-4	Tetrachloroethene	12	0.38	0.24	1.7	0.056	0.035	
108-90-7	Chlorobenzene	ND	1.8	0.25	ND	0.40	0.054	
100-41-4	Ethylbenzene	8.7	1.8	0.26	2.0	0.42	0.060	
179601-23-1	m,p-Xylenes	25	3.8	0.49	5.8	0.88	0.11	
75-25-2	Bromoform	ND	1.9	0.38	ND	0.18	0.037	
100-42-5	Styrene	0.57	1.8	0.30	0.13	0.43	0.070	J
95-47-6	o-Xylene	7.5	1.8	0.27	1.7	0.42	0.062	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.38	0.26	ND	0.056	0.038	
98-82-8	Cumene	ND	1.9	0.27	ND	0.38	0.055	
541-73-1	1,3-Dichlorobenzene	ND	1.8	0.28	ND	0.31	0.046	
106-46-7	1,4-Dichlorobenzene	ND	1.8	0.29	ND	0.31	0.047	
95-50-1	1,2-Dichlorobenzene	ND	1.9	0.27	ND	0.31	0.046	
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.8	0.35	ND	0.40	0.036	
120-82-1	1,2,4-Trichlorobenzene	ND	3.8	0.45	ND	0.52	0.061	
79-20-9	Methyl Acetate	ND	1.7	0.84	ND	0.57	0.28	X
108-87-2	Methylcyclohexane	ND	1.7	0.90	ND	0.43	0.23	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS13\DATA\2023_03\24\03242308.D
 Acq On : 24 Mar 2023 9:41
 Sample : P2301250-008 (500mL)
 Misc : S35-01202301

Vial: 15
 Operator: TZ
 Inst : MS13

TZ 3/27/23

Quant Time: Mar 27 11:44:56 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	243211	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.38	114	1055277	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	196737	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	402891	12.483	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	99.84%
57) Toluene-d8 (SS2)	12.48	98	1182203	11.685	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.44%
73) Bromofluorobenzene (SS3)	16.85	174	437116	11.796	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.40%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	3.46	85	32243	0.724	ng	97
4) Chloromethane	0.00	50	0	N.D.	d	
5) 1,2-Dichloro-1,1,2,2-t...	3.71	135	655	N.D.		
6) Vinyl Chloride	3.79	62	747	N.D.		
7) 1,3-Butadiene	3.87	54	551	N.D.		
8) Bromomethane	4.12	94	330	N.D.		
9) Chloroethane	4.26	64	691	N.D.		
10) Ethanol	4.41	45	211455	12.242	ng	100
11) Acetonitrile	4.56	41	1782	N.D.		
12) Acrolein	4.65	56	1341	0.094	ng	98
13) Acetone	4.74	58	184873	12.541	ng	99
14) Trichlorofluoromethane	4.86	101	12221	0.305	ng	98
15) 2-Propanol (Isopropanol)	4.95	45	50767	0.853	ng	100
16) Acrylonitrile	5.14	53	1153	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.44	84	39437	1.825	ng	96
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	5.68	151	3200	0.152	ng	92
22) Carbon Disulfide	5.70	76	42305	0.494	ng	99
23) trans-1,2-Dichloroethene	6.23	61	282	N.D.		
24) 1,1-Dichloroethane	6.41	63	8786	0.228	ng	98
25) Methyl tert-Butyl Ether	6.39	73	1202	N.D.		
26) Vinyl Acetate	6.54	86	1426	0.358	ng	# 1
27) 2-Butanone (MEK)	6.77	72	6039	0.461	ng	# 76
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	7.37	87	380	N.D.		
30) Ethyl Acetate	7.37	61	40068	4.656	ng	93
31) n-Hexane	7.38	57	7760	0.234	ng	97
32) Chloroform	7.45	83	656647	16.758	ng	100
34) Tetrahydrofuran (THF)	7.86	72	1731	0.129	ng	# 5
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.11	62	197	N.D.		
38) 1,1,1-Trichloroethane	8.47	97	343252	9.827	ng	99
39) Isopropyl Acetate	9.38	61	29940	No Calib	#	
40) 1-Butanol	8.88	56	21245	No Calib	#	
41) Benzene	8.98	78	26914	0.328	ng	98
42) Carbon Tetrachloride	9.14	117	36208	1.175	ng	98
43) Cyclohexane	9.29	84	3671	0.122	ng	# 78
44) tert-Amyl Methyl Ether	9.69	73	352	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	10.15	83	15746	0.519	ng	100
47) Trichloroethene	10.21	130	449764	18.701	ng	99
48) 1,4-Dioxane	0.00	88	0	N.D.	d	
49) 2,2,4-Trimethylpentane...	10.31	57	1632	N.D.		
50) Methyl Methacrylate	10.47	100	309	N.D.		

Data File : I:\MS13\DATA\2023_03\24\03242308.D
 Acq On : 24 Mar 2023 9:41
 Sample : P2301250-008 (500mL)
 Misc : S35-01202301

Vial: 15
 Operator: TZ
 Inst : MS13

Quant Time: Mar 27 11:44:56 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

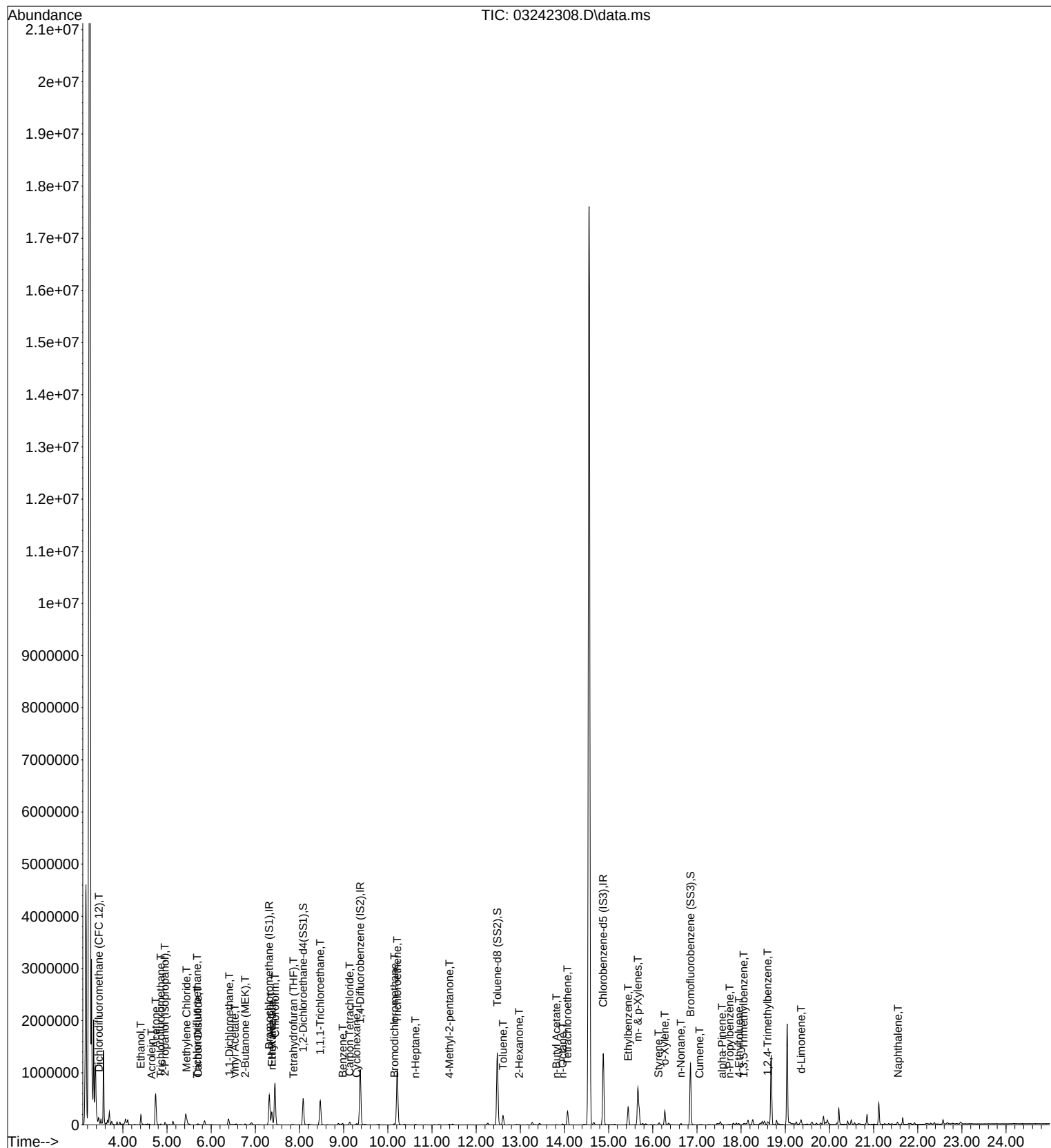
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.62	71	3591	0.181	ng	97
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.40	58	4851	0.274	ng	87
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	12.23	97	796	N.D.		
58) Toluene	12.61	91	159903	1.660	ng	99
59) 2-Hexanone	12.97	43	4819	0.103	ng	76
60) Dibromochloromethane	13.11	129	1029	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.82	43	7038	0.132	ng	90
63) n-Octane	13.96	57	3432	0.181	ng	# 78
64) Tetrachloroethene	14.07	166	97021	3.311	ng	98
65) Chlorobenzene	14.93	112	1590	N.D.		
66) Ethylbenzene	15.44	91	287775	2.504	ng	100
67) m- & p-Xylenes	15.66	91	667280	7.215	ng	97
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.13	104	10406	0.164	ng	98
70) o-Xylene	16.27	91	190878	2.159	ng	99
71) n-Nonane	16.64	43	11292	0.264	ng	95
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	17.06	105	6414	0.060	ng	96
75) alpha-Pinene	17.57	93	5038	0.102	ng	87
76) n-Propylbenzene	17.74	91	9210	0.071	ng	94
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	10244	0.099	ng	99
79) 1,3,5-Trimethylbenzene	18.06	105	9991	0.110	ng	99
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.60	105	26873	0.299	ng	90
83) n-Decane	17.12	58	835	No Calib	#	
84) Benzyl Chloride	18.75	91	1315	N.D.		
85) 1,3-Dichlorobenzene	18.77	146	1701	N.D.		
86) 1,4-Dichlorobenzene	18.87	146	2044	N.D.		
87) sec-Butylbenzene	18.96	105	1219	N.D.		
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.	d	
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.30	146	2176	N.D.		
91) d-Limonene	19.36	68	19848	0.652	ng	96
92) 1,2-Dibromo-3-Chloropr...	19.86	157	107	N.D.		
93) n-Undecane	18.26	58	2998	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	1896	N.D.		
95) Naphthalene	21.55	128	7705	0.079	ng	99
96) n-Dodecane	19.20	58	1131	No Calib	#	
97) Hexachlorobutadiene	21.99	225	421	N.D.		
98) Cyclohexanone	15.68	55	671	No Calib	#	
99) tert-Butylbenzene	0.00	119	0	N.D.	d	
100) n-Butylbenzene	0.00	91	0	N.D.	d	
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242308.D
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Vial: 15
Operator: TZ
Inst : MS13

Quant Time: Mar 27 11:44:56 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



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TZ 3/27/23

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56) Chlorobenzene-d5 (IS3)	14.88	54	196737	12.500	ng	0.00

System Monitoring Compounds

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Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.44%
73) Bromofluorobenzene (SS3)	16.85	174	437116	11.796	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.40%

Target Compounds

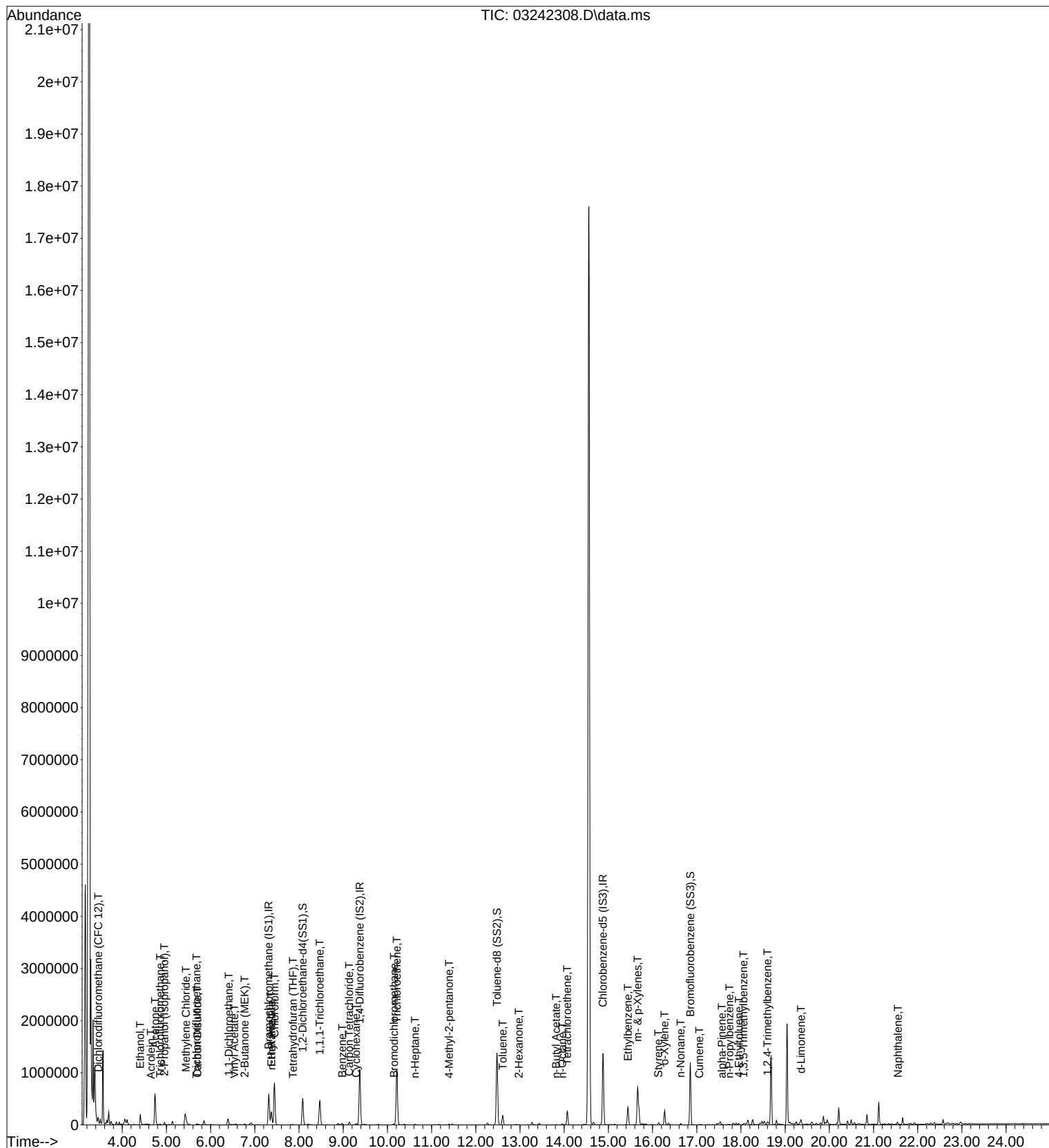
						Qvalue
3) Dichlorodifluoromethan...	3.46	85	32243	0.724	ng	97
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12) Acrolein	4.65	56	1341	0.094	ng	98
13) Acetone	4.74	58	184873	12.541	ng	99
14) Trichlorofluoromethane	4.86	101	12221	0.305	ng	98
15) 2-Propanol (Isopropanol)	4.95	45	50767	0.853	ng	100
19) Methylene Chloride	5.44	84	39437	1.825	ng	96
21) Trichlorotrifluoroethane	5.68	151	3200	0.152	ng	92
22) Carbon Disulfide	5.70	76	42305	0.494	ng	99
24) 1,1-Dichloroethane	6.41	63	8786	0.228	ng	98
26) Vinyl Acetate	6.54	86	1426	0.358	ng	# 1
27) 2-Butanone (MEK)	6.77	72	6039	0.461	ng	# 76
30) Ethyl Acetate	7.37	61	40068	4.656	ng	93
31) n-Hexane	7.38	57	7760	0.234	ng	97
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42) Carbon Tetrachloride	9.14	117	36208	1.175	ng	98
43) Cyclohexane	9.29	84	3671	0.122	ng	# 78
46) Bromodichloromethane	10.15	83	15746	0.519	ng	100
47) Trichloroethene	10.21	130	449764	18.701	ng	99
51) n-Heptane	10.62	71	3591	0.181	ng	97
53) 4-Methyl-2-pentanone	11.40	58	4851	0.274	ng	87
58) Toluene	12.61	91	159903	1.660	ng	99
59) 2-Hexanone	12.97	43	4819	0.103	ng	76
62) n-Butyl Acetate	13.82	43	7038	0.132	ng	90
63) n-Octane	13.96	57	3432	0.181	ng	# 78
64) Tetrachloroethene	14.07	166	97021	3.311	ng	98
66) Ethylbenzene	15.44	91	287775	2.504	ng	100
67) m- & p-Xylenes	15.66	91	667280	7.215	ng	97
69) Styrene	16.13	104	10406	0.164	ng	98
70) o-Xylene	16.27	91	190878	2.159	ng	99
71) n-Nonane	16.64	43	11292	0.264	ng	95
74) Cumene	17.06	105	6414	0.060	ng	96
75) alpha-Pinene	17.57	93	5038	0.102	ng	87
76) n-Propylbenzene	17.74	91	9210	0.071	ng	94
78) 4-Ethyltoluene	17.95	105	10244	0.099	ng	99
79) 1,3,5-Trimethylbenzene	18.06	105	9991	0.110	ng	99
82) 1,2,4-Trimethylbenzene	18.60	105	26873	0.299	ng	90
91) d-Limonene	19.36	68	19848	0.652	ng	96
95) Naphthalene	21.55	128	7705	0.079	ng	99

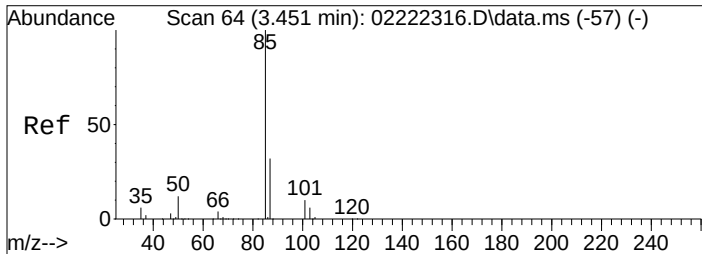
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Acq On : 24 Mar 2023 9:41
Sample : P2301250-008 (500mL)
Misc : S35-01202301

Vial: 15
Operator: TZ
Inst : MS13

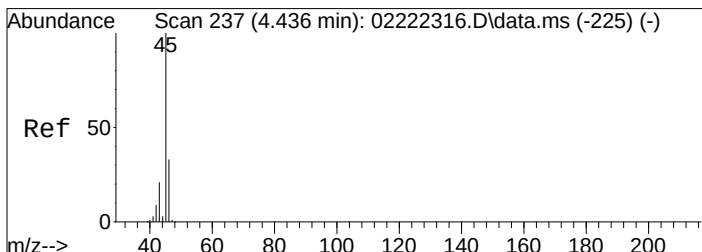
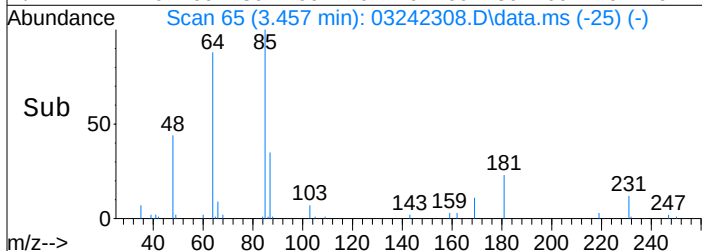
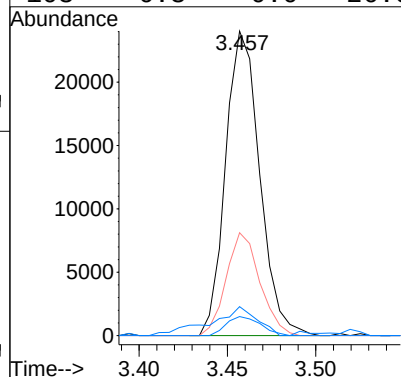
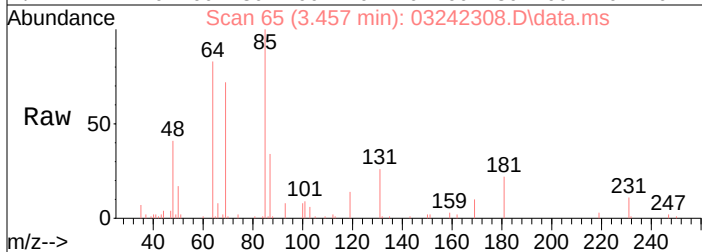
Quant Time: Mar 27 11:44:56 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
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DataAcq Meth:T015.M





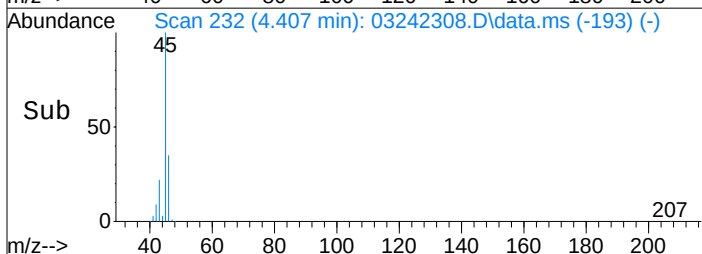
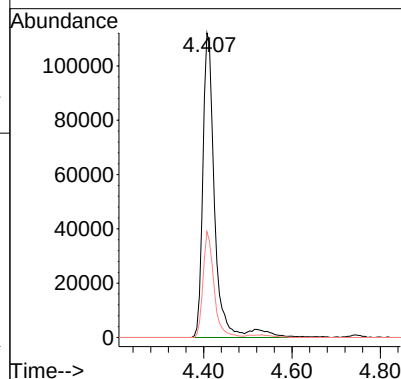
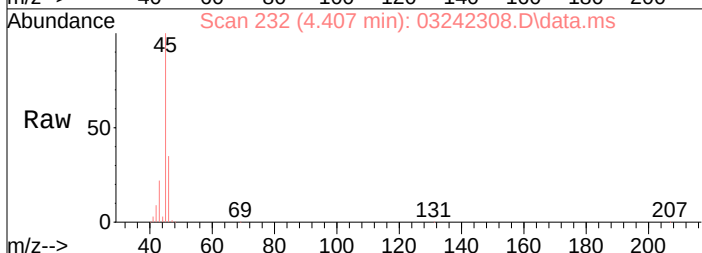
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 0.72 ng
 RT: 3.46 min Scan# 65
 Delta R.T. -0.021 min
 Lab File: 03242308.D
 Acq: 24 Mar 2023 9:41

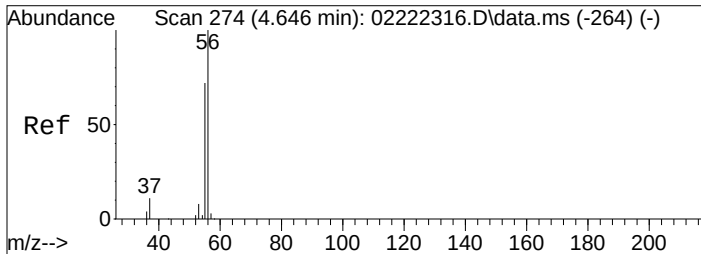
Tgt Ion:	85	Resp:	32243
Ion Ratio		Lower	Upper
85	100		
87	33.3	12.4	52.4
101	12.9	0.0	29.4
103	6.3	0.0	26.0



#10
 Ethanol
 Concen: 12.24 ng
 RT: 4.41 min Scan# 232
 Delta R.T. -0.028 min
 Lab File: 03242308.D
 Acq: 24 Mar 2023 9:41

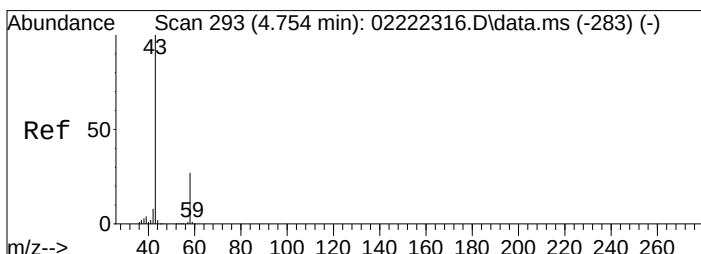
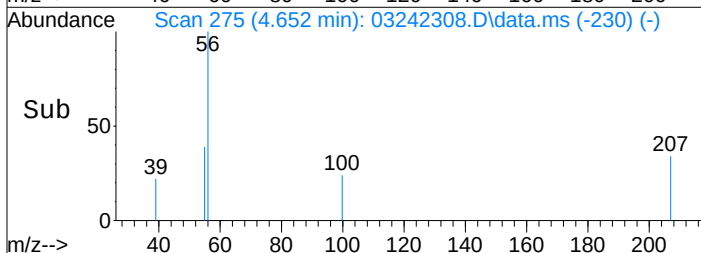
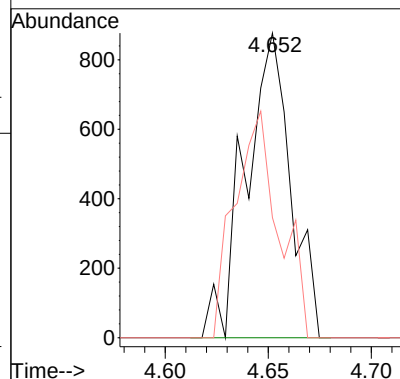
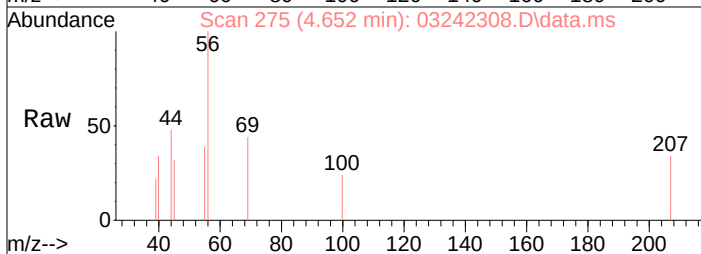
Tgt Ion:	45	Resp:	211455
Ion Ratio		Lower	Upper
45	100		
46	33.6	13.8	53.8





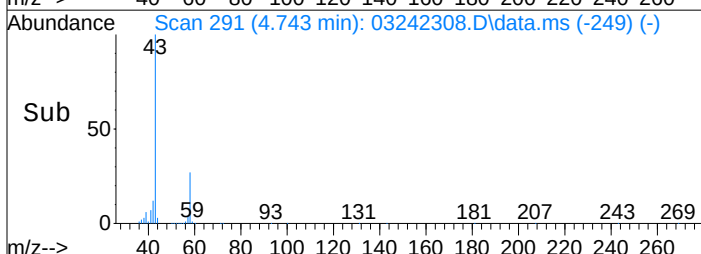
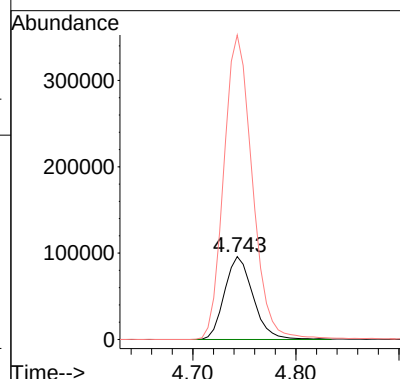
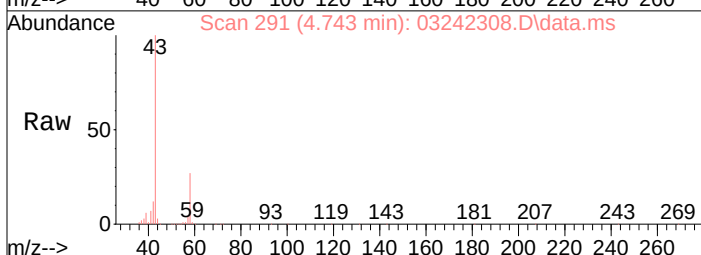
#12
Acrolein
Concen: 0.09 ng
RT: 4.65 min Scan# 275
Delta R.T. 0.006 min
Lab File: 03242308.D
Acq: 24 Mar 2023 9:41

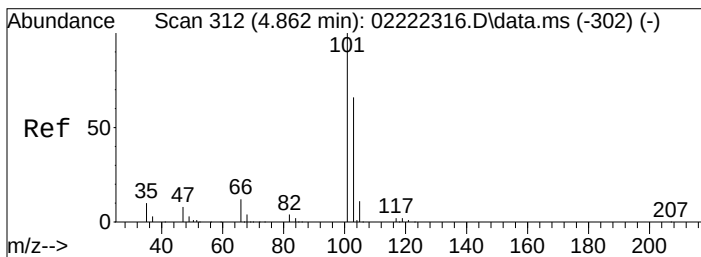
Tgt Ion: 56 Resp: 1341
Ion Ratio Lower Upper
56 100
55 72.8 50.9 90.9



#13
Acetone
Concen: 12.54 ng
RT: 4.74 min Scan# 291
Delta R.T. -0.011 min
Lab File: 03242308.D
Acq: 24 Mar 2023 9:41

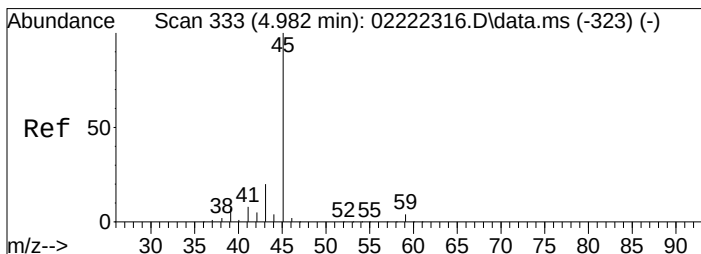
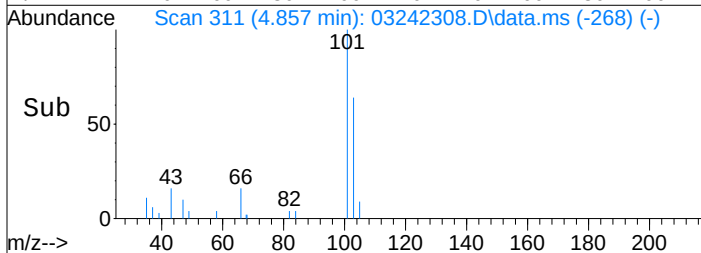
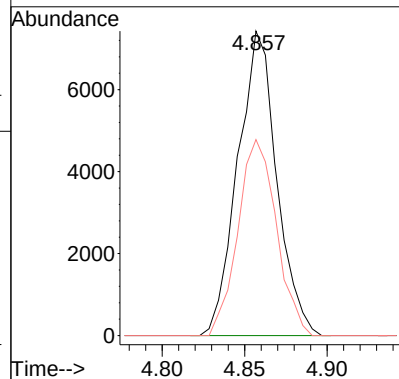
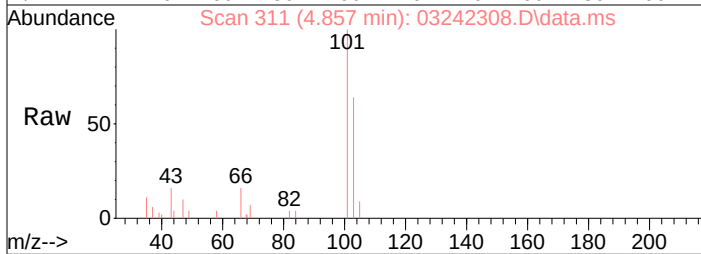
Tgt Ion: 58 Resp: 184873
Ion Ratio Lower Upper
58 100
43 369.3 337.8 397.8





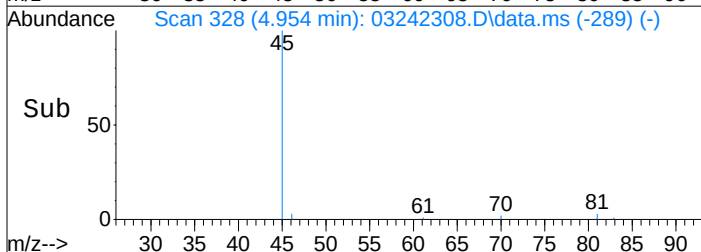
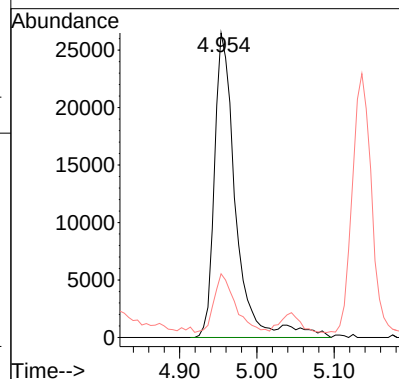
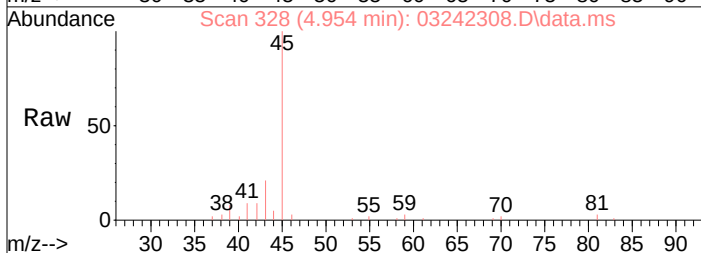
#14
 Trichlorofluoromethane
 Concen: 0.30 ng
 RT: 4.86 min Scan# 311
 Delta R.T. -0.006 min
 Lab File: 03242308.D
 Acq: 24 Mar 2023 9:41

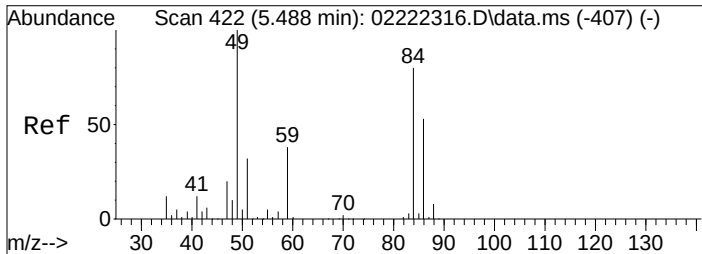
Tgt Ion: 101 Resp: 12221
 Ion Ratio Lower Upper
 101 100
 103 63.5 45.2 85.2



#15
 2-Propanol (Isopropanol)
 Concen: 0.85 ng
 RT: 4.95 min Scan# 328
 Delta R.T. -0.028 min
 Lab File: 03242308.D
 Acq: 24 Mar 2023 9:41

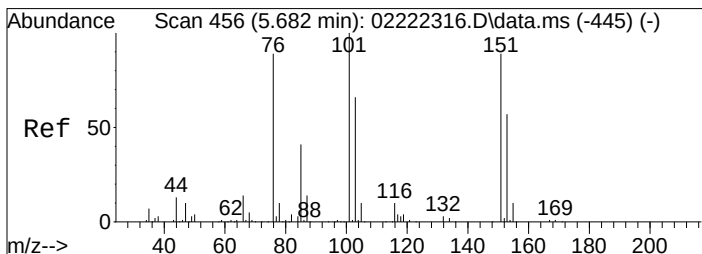
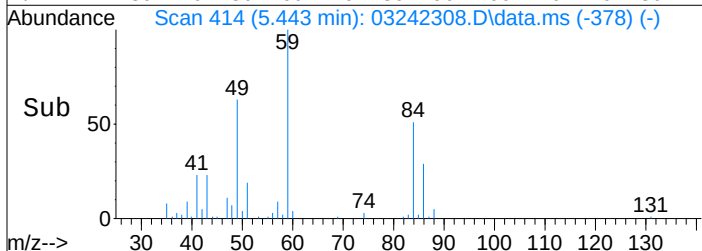
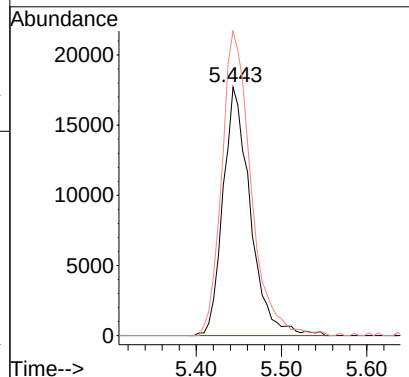
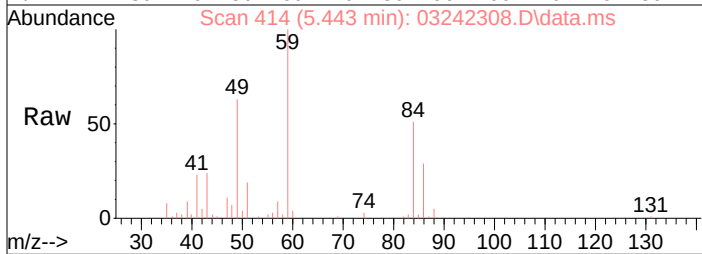
Tgt Ion: 45 Resp: 50767
 Ion Ratio Lower Upper
 45 100
 43 19.6 0.0 39.7





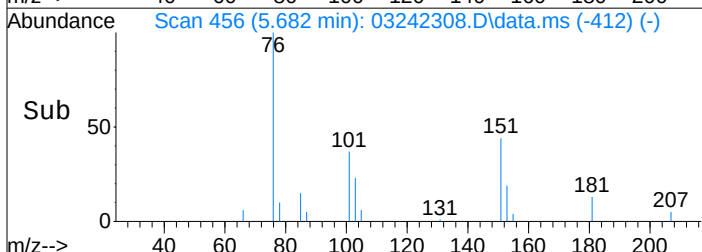
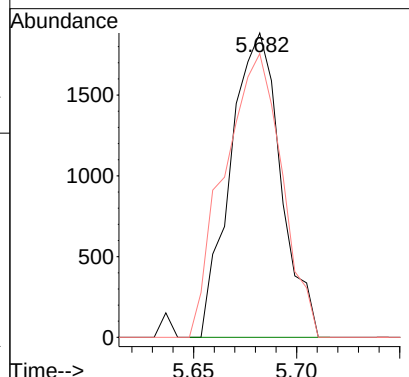
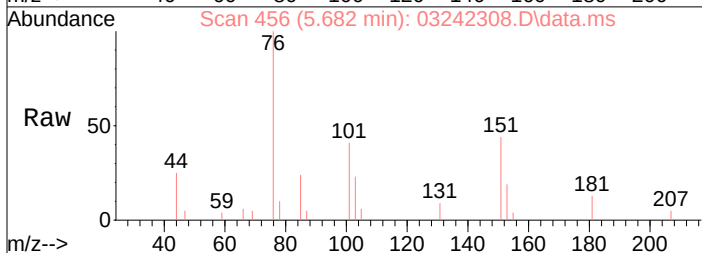
#19
Methylene Chloride
Concen: 1.82 ng
RT: 5.44 min Scan# 414
Delta R.T. -0.045 min
Lab File: 03242308.D
Acq: 24 Mar 2023 9:41

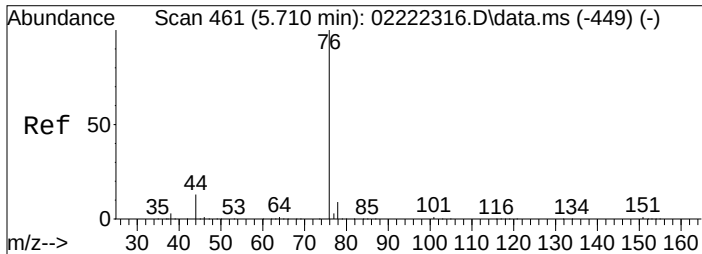
Tgt Ion	Resp	Lower	Upper
84	39437		
84	100		
49	131.3	101.3	151.3



#21
Trichlorotrifluoroethane
Concen: 0.15 ng
RT: 5.68 min Scan# 456
Delta R.T. 0.000 min
Lab File: 03242308.D
Acq: 24 Mar 2023 9:41

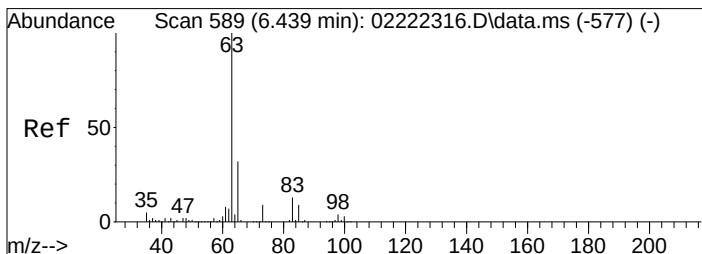
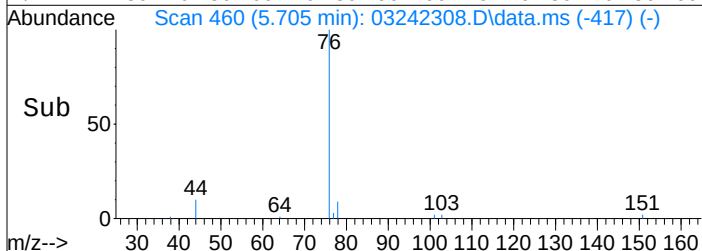
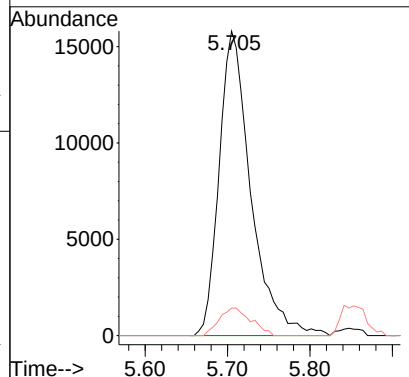
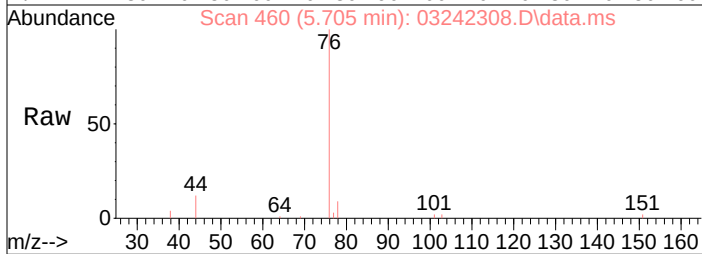
Tgt Ion	Resp	Lower	Upper
151	3200		
151	100		
101	107.1	96.3	136.3





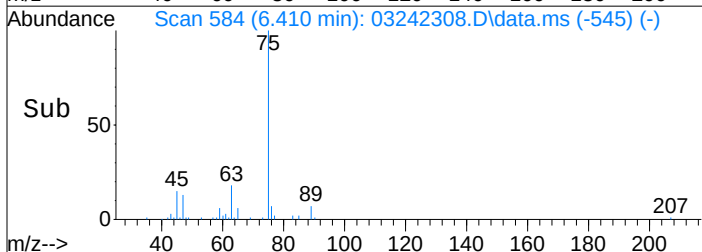
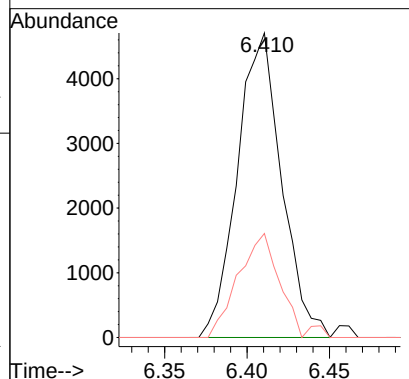
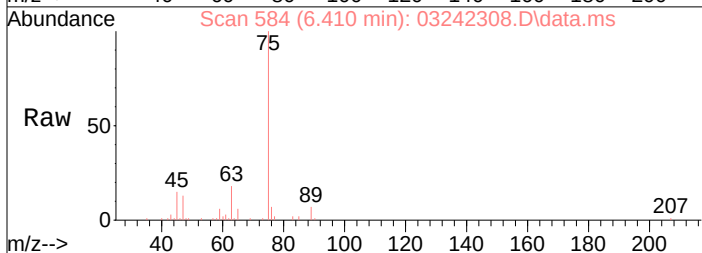
#22
Carbon Disulfide
Concen: 0.49 ng
RT: 5.70 min Scan# 460
Delta R.T. -0.006 min
Lab File: 03242308.D
Acq: 24 Mar 2023 9:41

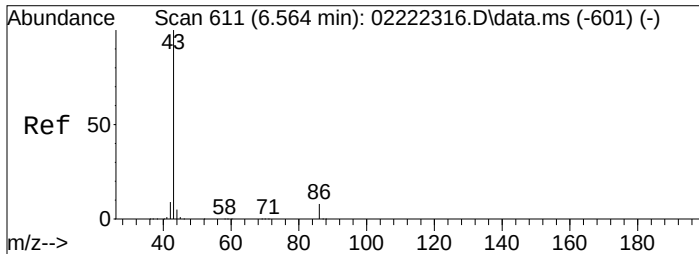
Tgt Ion: 76 Resp: 42305
Ion Ratio Lower Upper
76 100
78 9.1 0.0 29.3



#24
1,1-Dichloroethane
Concen: 0.23 ng
RT: 6.41 min Scan# 584
Delta R.T. -0.028 min
Lab File: 03242308.D
Acq: 24 Mar 2023 9:41

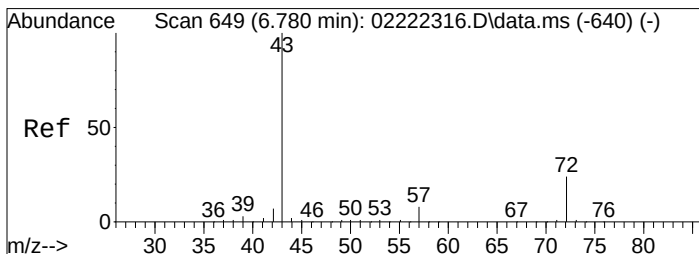
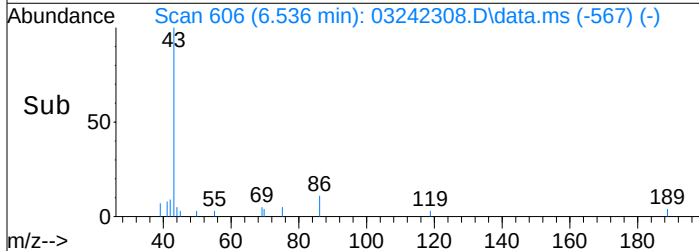
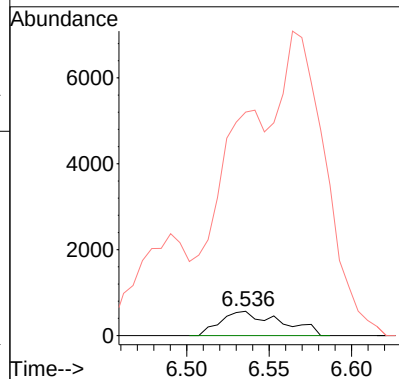
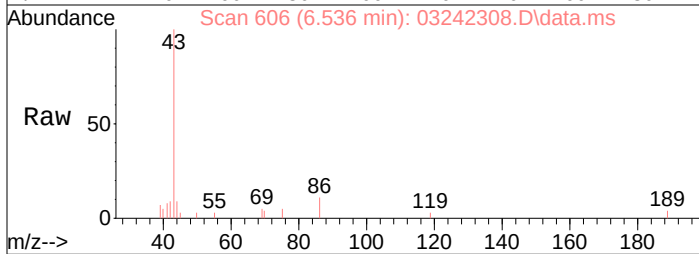
Tgt Ion: 63 Resp: 8786
Ion Ratio Lower Upper
63 100
65 32.9 12.0 52.0





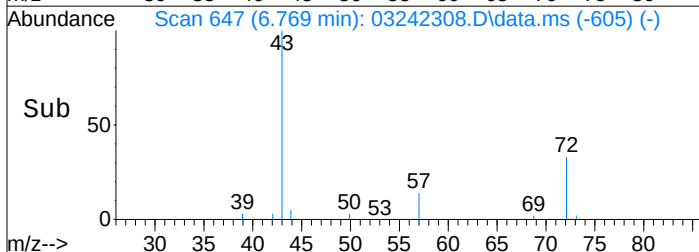
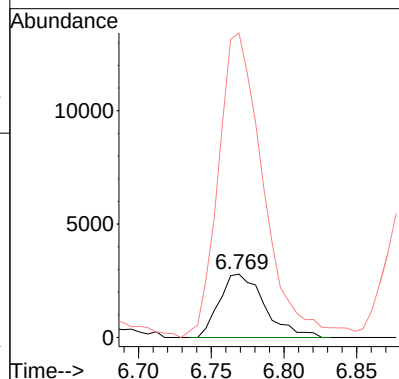
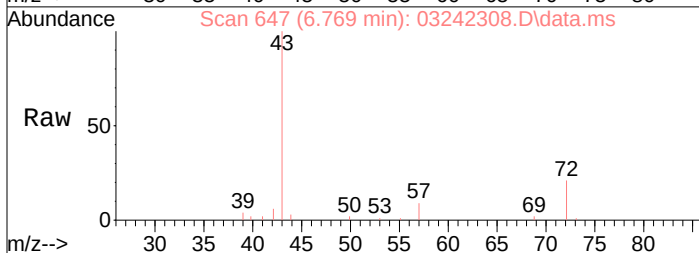
#26
Vinyl Acetate
Concen: 0.36 ng
RT: 6.54 min Scan# 606
Delta R.T. -0.028 min
Lab File: 03242308.D
Acq: 24 Mar 2023 9:41

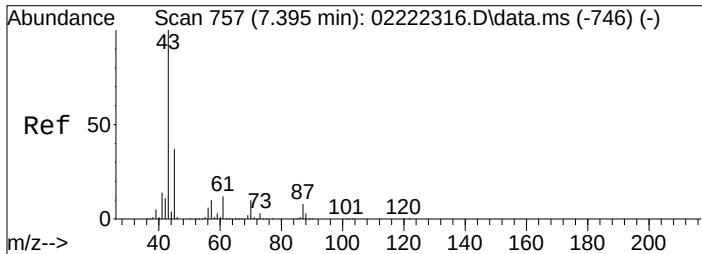
Tgt Ion: 86 Resp: 1426
Ion Ratio Lower Upper
86 100
43 768.2 1292.1 1332.1#



#27
2-Butanone (MEK)
Concen: 0.46 ng
RT: 6.77 min Scan# 647
Delta R.T. -0.011 min
Lab File: 03242308.D
Acq: 24 Mar 2023 9:41

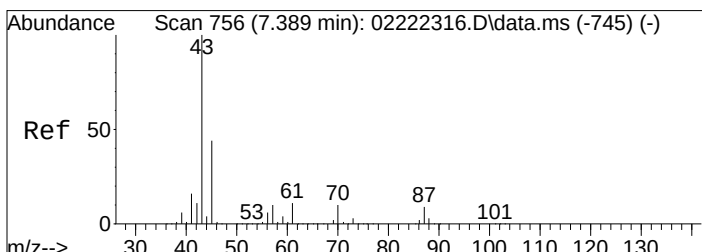
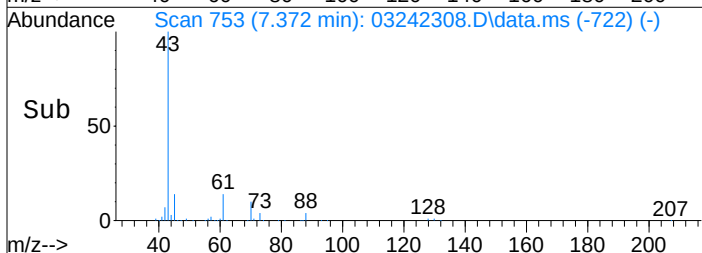
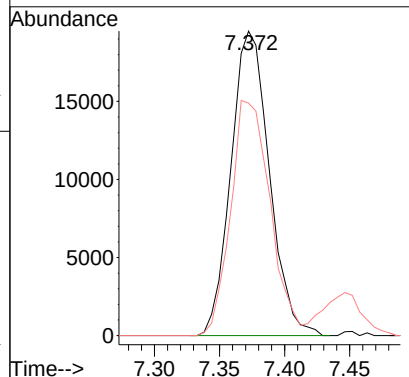
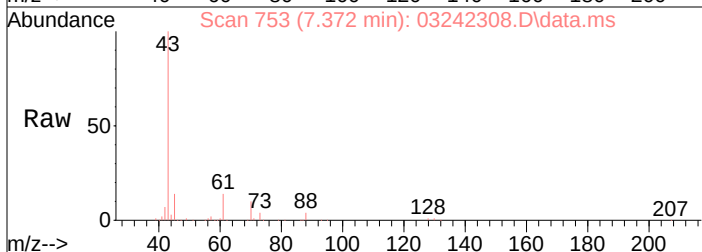
Tgt Ion: 72 Resp: 6039
Ion Ratio Lower Upper
72 100
43 480.4 400.5 440.5#





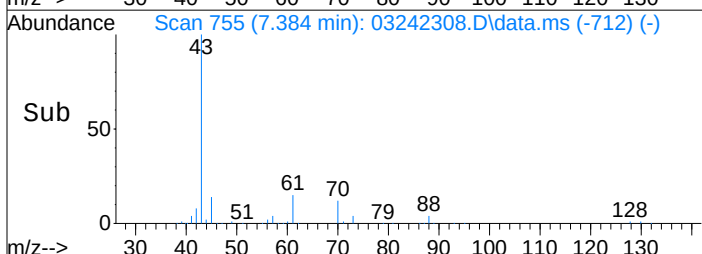
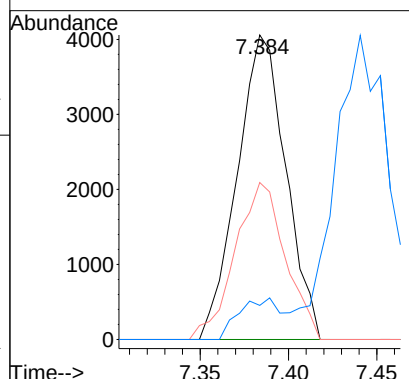
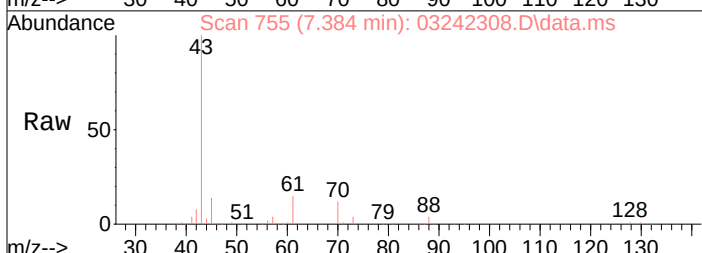
#30
Ethyl Acetate
Concen: 4.66 ng
RT: 7.37 min Scan# 753
Delta R.T. -0.023 min
Lab File: 03242308.D
Acq: 24 Mar 2023 9:41

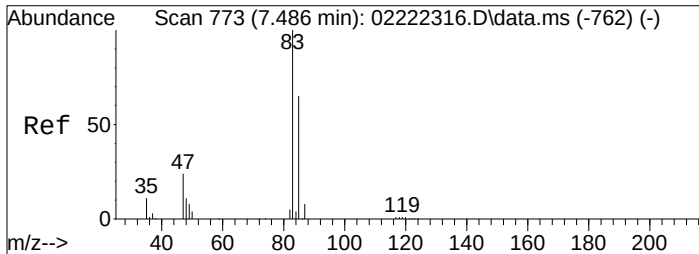
Tgt Ion: 61 Resp: 40068
Ion Ratio Lower Upper
61 100
70 79.1 65.6 105.6



#31
n-Hexane
Concen: 0.23 ng
RT: 7.38 min Scan# 755
Delta R.T. -0.006 min
Lab File: 03242308.D
Acq: 24 Mar 2023 9:41

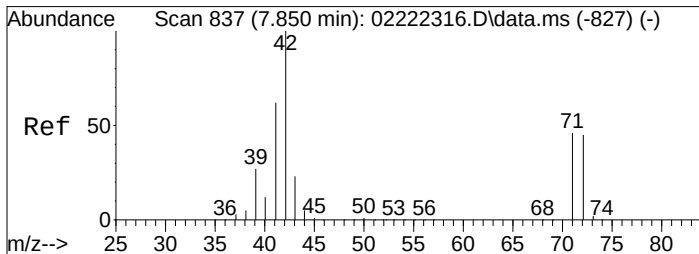
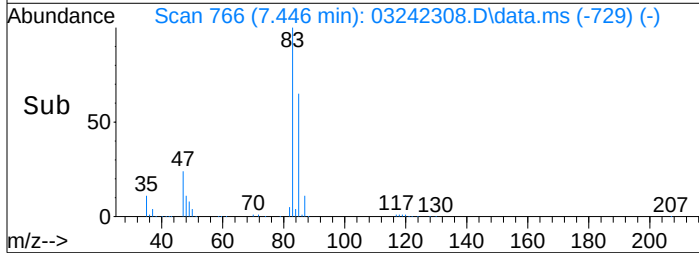
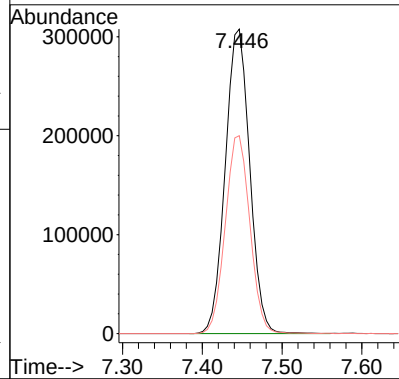
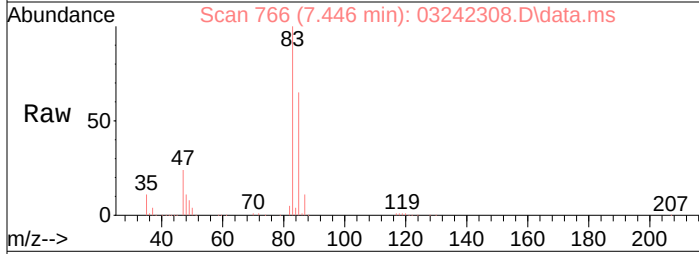
Tgt Ion: 57 Resp: 7760
Ion Ratio Lower Upper
57 100
56 53.3 44.0 66.0
86 12.5 11.5 17.3





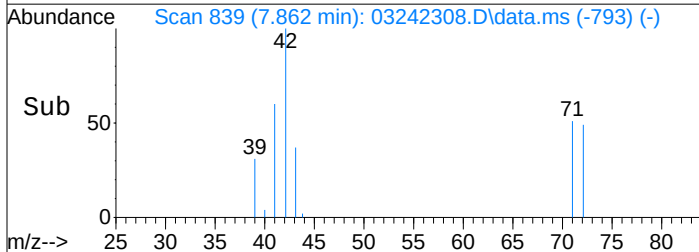
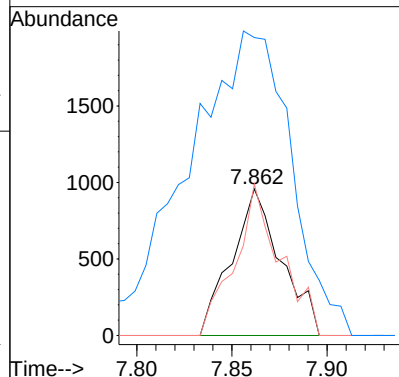
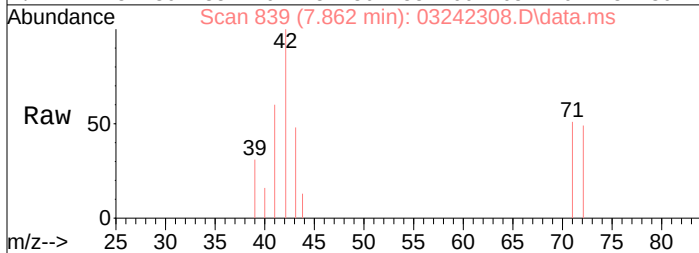
#32
Chloroform
Concen: 16.76 ng
RT: 7.45 min Scan# 766
Delta R.T. -0.040 min
Lab File: 03242308.D
Acq: 24 Mar 2023 9:41

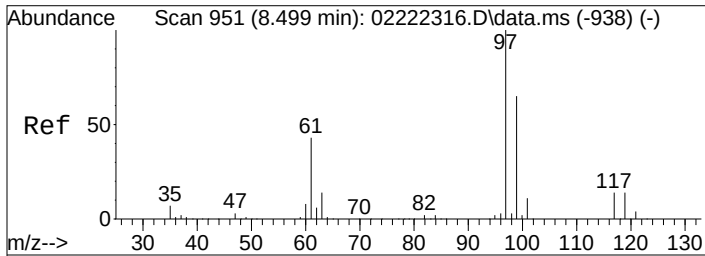
Tgt Ion: 83 Resp: 656647
Ion Ratio Lower Upper
83 100
85 65.4 45.0 85.0



#34
Tetrahydrofuran (THF)
Concen: 0.13 ng
RT: 7.86 min Scan# 839
Delta R.T. 0.012 min
Lab File: 03242308.D
Acq: 24 Mar 2023 9:41

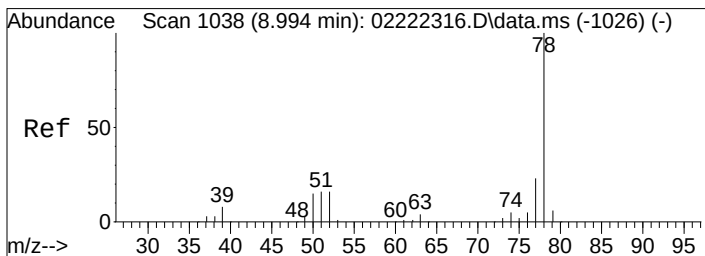
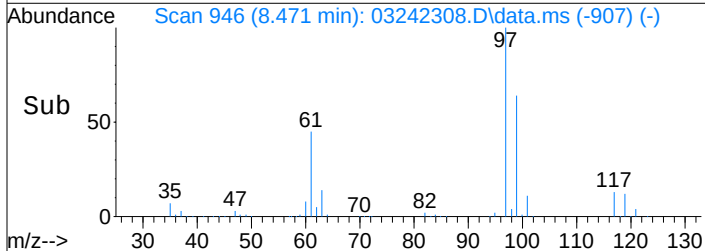
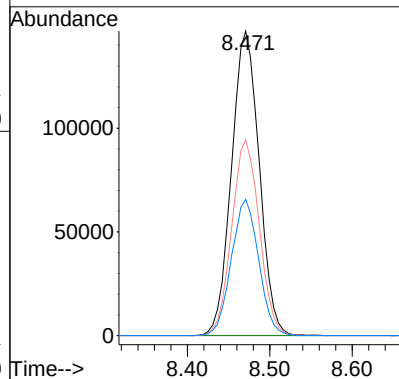
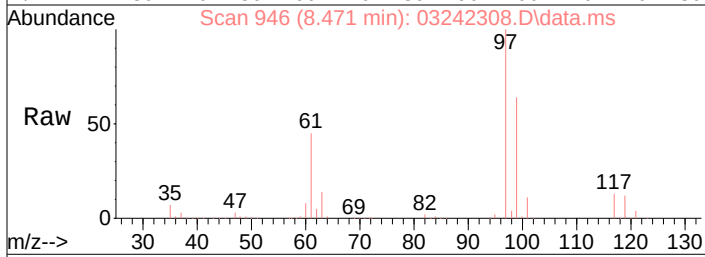
Tgt Ion: 72 Resp: 1731
Ion Ratio Lower Upper
72 100
71 94.7 79.8 119.8
42 436.6 199.0 239.0#





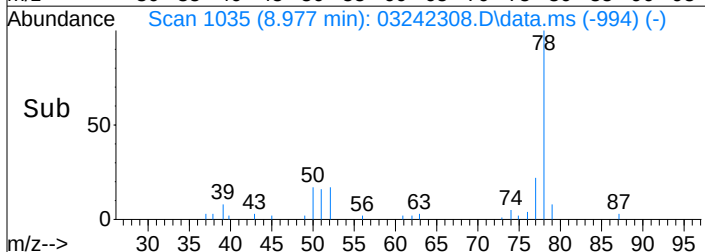
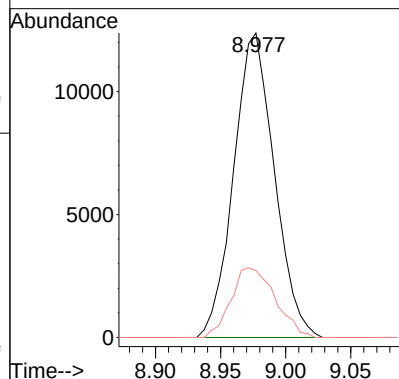
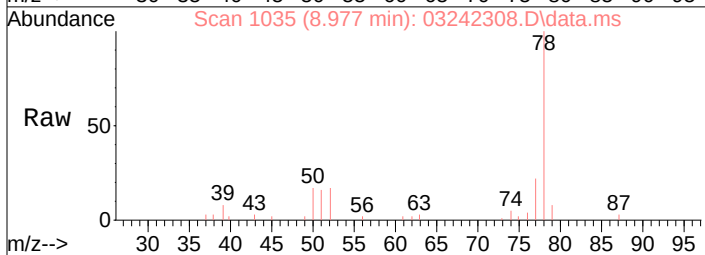
#38
 1,1,1-Trichloroethane
 Concen: 9.83 ng
 RT: 8.47 min Scan# 946
 Delta R.T. -0.028 min
 Lab File: 03242308.D
 Acq: 24 Mar 2023 9:41

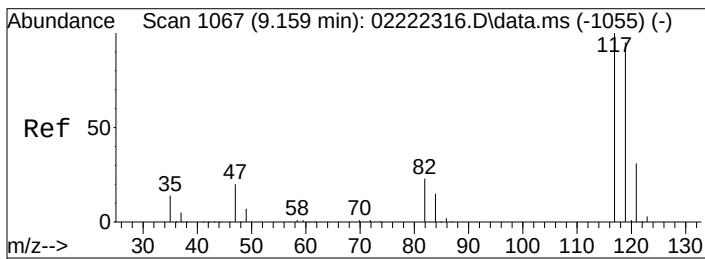
Tgt Ion:	97	Resp:	343252
Ion Ratio		Lower	Upper
97	100		
99	63.9	44.9	84.9
61	44.2	23.5	63.5



#41
 Benzene
 Concen: 0.33 ng
 RT: 8.98 min Scan# 1035
 Delta R.T. -0.017 min
 Lab File: 03242308.D
 Acq: 24 Mar 2023 9:41

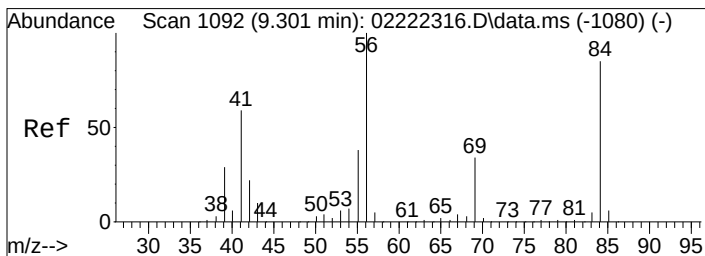
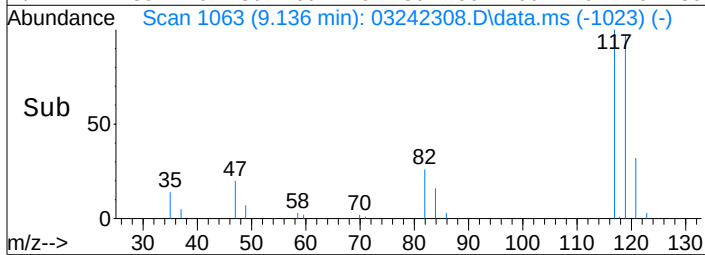
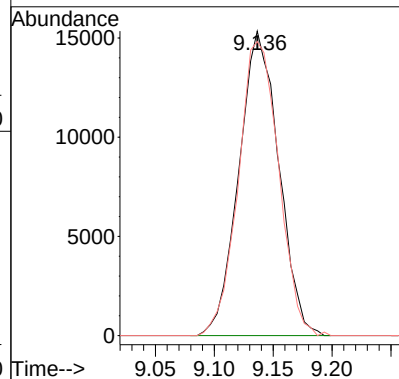
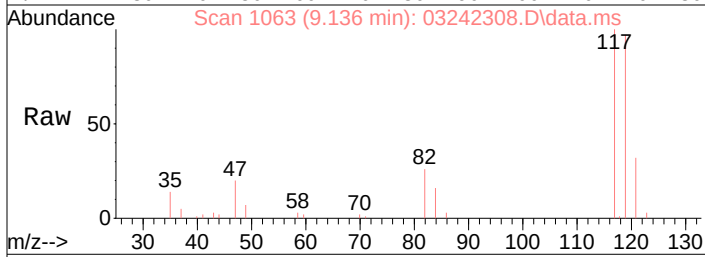
Tgt Ion:	78	Resp:	26914
Ion Ratio		Lower	Upper
78	100		
77	24.9	3.7	43.7





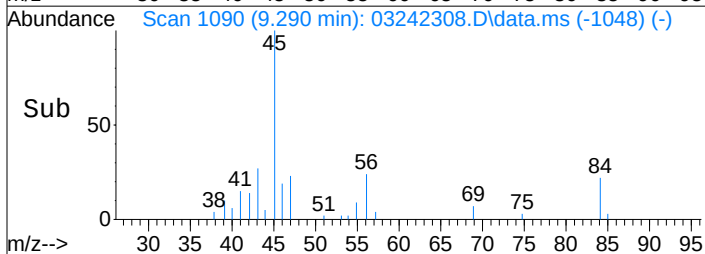
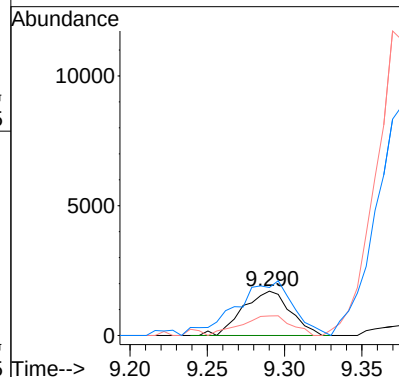
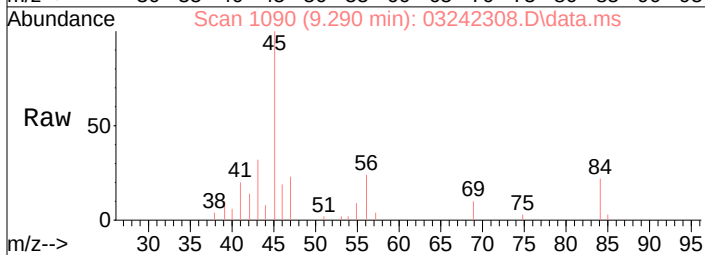
#42
Carbon Tetrachloride
Concen: 1.18 ng
RT: 9.14 min Scan# 1063
Delta R.T. -0.023 min
Lab File: 03242308.D
Acq: 24 Mar 2023 9:41

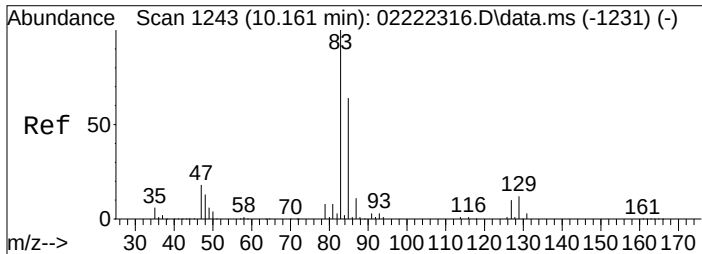
Tgt Ion: 117 Resp: 36208
Ion Ratio Lower Upper
117 100
119 97.7 75.7 115.7



#43
Cyclohexane
Concen: 0.12 ng
RT: 9.29 min Scan# 1090
Delta R.T. -0.011 min
Lab File: 03242308.D
Acq: 24 Mar 2023 9:41

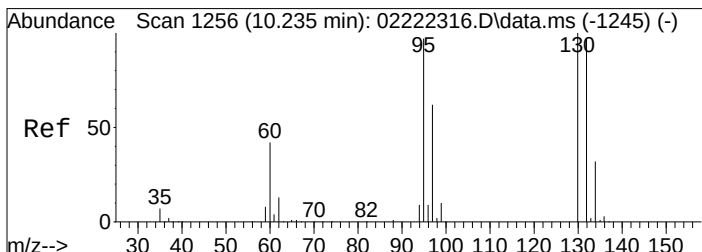
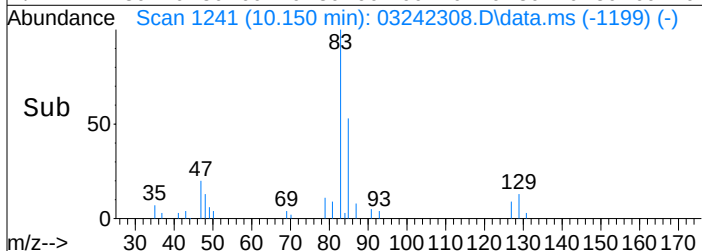
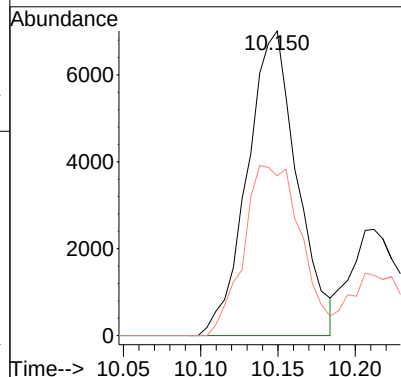
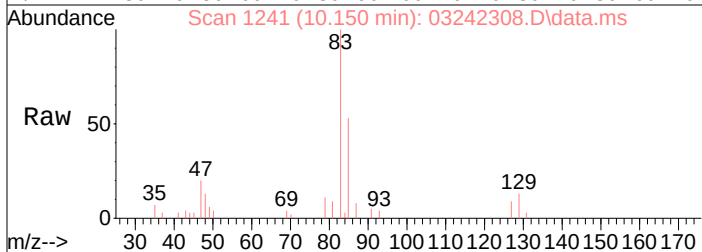
Tgt Ion: 84 Resp: 3671
Ion Ratio Lower Upper
84 100
69 46.9 20.0 60.0
56 147.5 98.5 138.5#





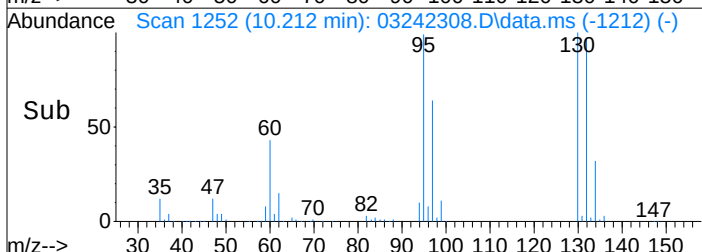
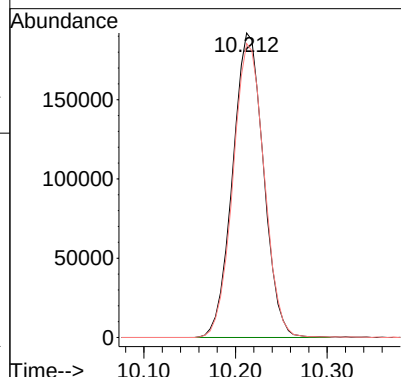
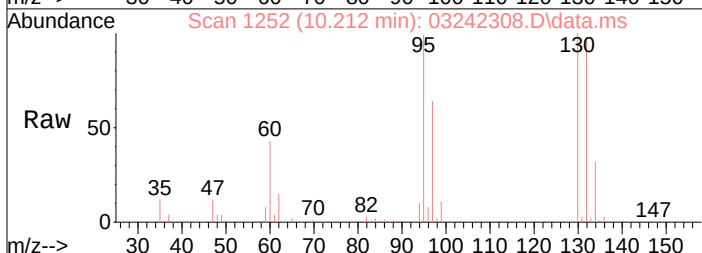
#46
 Bromodichloromethane
 Concen: 0.52 ng
 RT: 10.15 min Scan# 1241
 Delta R.T. -0.011 min
 Lab File: 03242308.D
 Acq: 24 Mar 2023 9:41

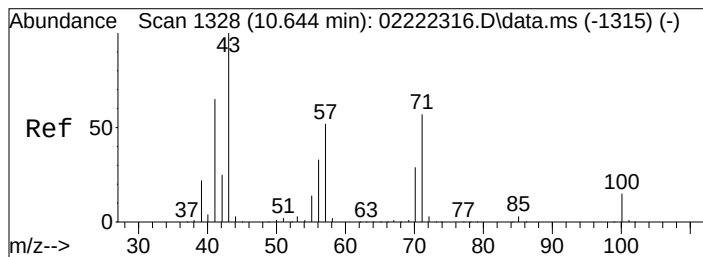
Tgt Ion	83	85	Resp	15746	Lower	Upper
Ion Ratio	100	63.9				
			44.0			84.0



#47
 Trichloroethene
 Concen: 18.70 ng
 RT: 10.21 min Scan# 1252
 Delta R.T. -0.023 min
 Lab File: 03242308.D
 Acq: 24 Mar 2023 9:41

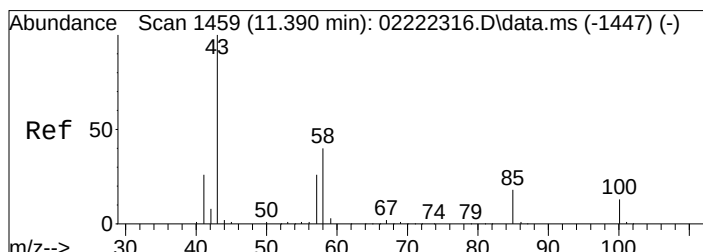
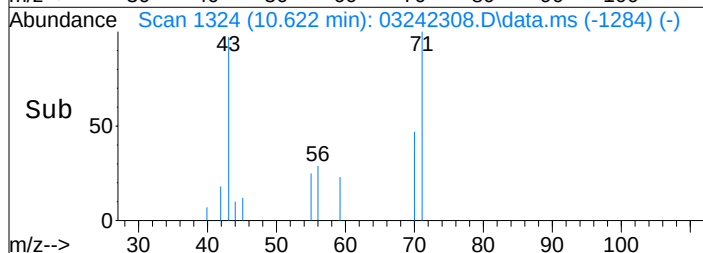
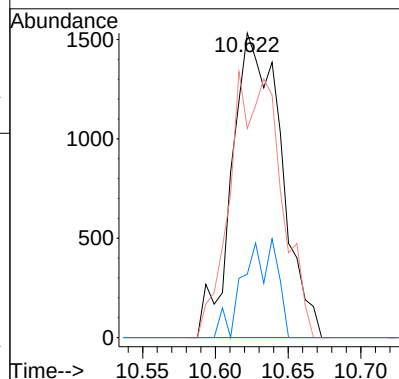
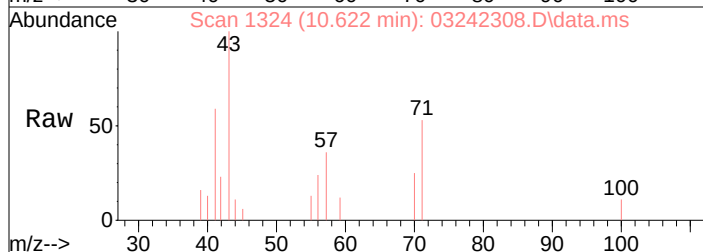
Tgt Ion	130	132	Resp	449764	Lower	Upper
Ion Ratio <td>100</td> <td>97.5</td> <td></td> <td></td> <td></td> <td></td>	100	97.5				
			76.3			116.3





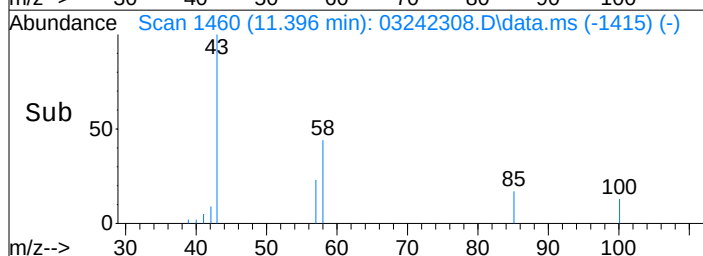
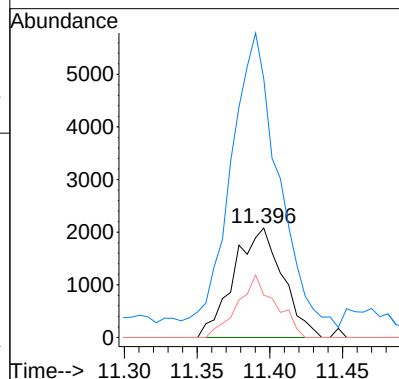
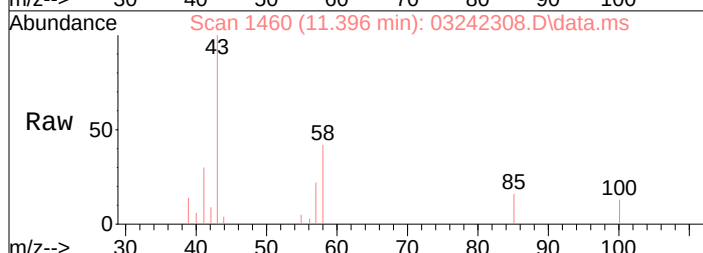
#51
n-Heptane
Concen: 0.18 ng
RT: 10.62 min Scan# 1324
Delta R.T. -0.023 min
Lab File: 03242308.D
Acq: 24 Mar 2023 9:41

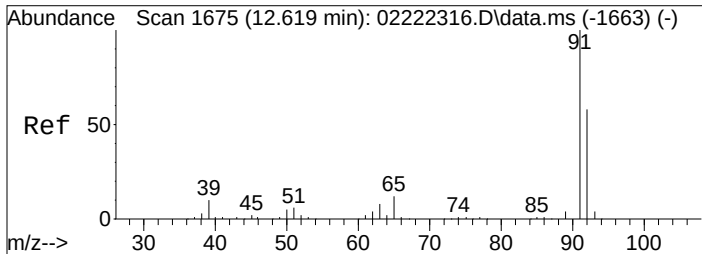
Tgt Ion: 71 Resp: 3591
Ion Ratio Lower Upper
71 100
57 89.9 71.7 111.7
100 21.9 5.8 45.8



#53
4-Methyl-2-pentanone
Concen: 0.27 ng
RT: 11.40 min Scan# 1460
Delta R.T. 0.006 min
Lab File: 03242308.D
Acq: 24 Mar 2023 9:41

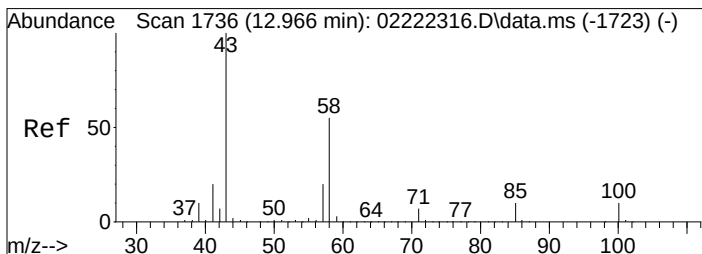
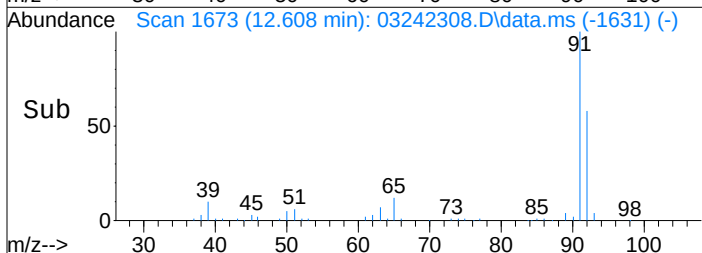
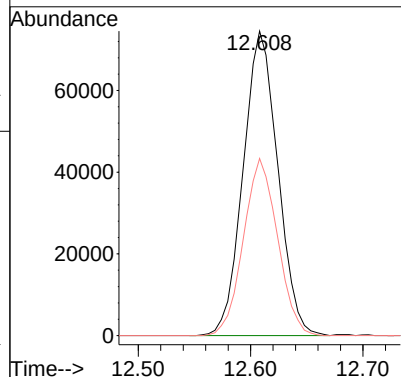
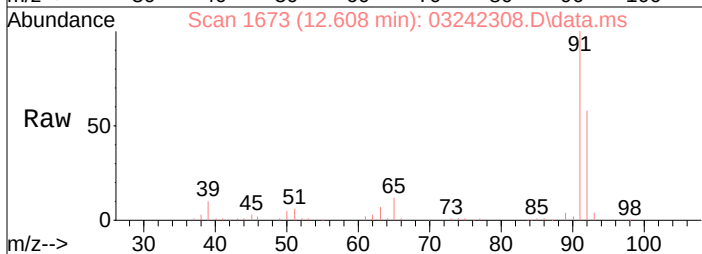
Tgt Ion: 58 Resp: 4851
Ion Ratio Lower Upper
58 100
85 43.9 38.6 58.0
43 277.1 202.2 303.2





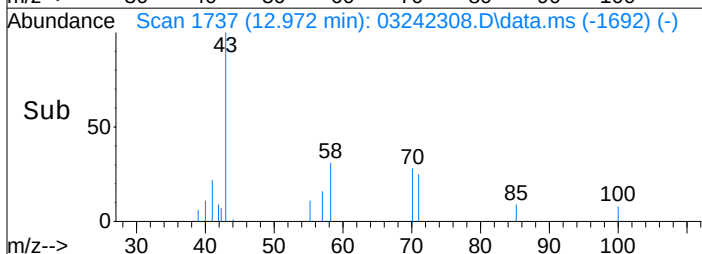
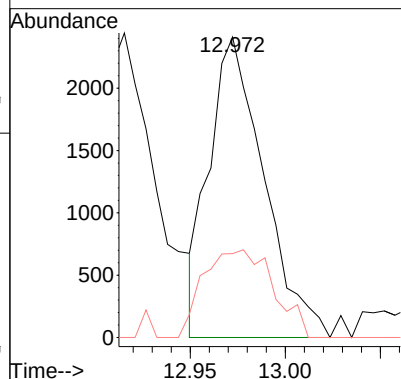
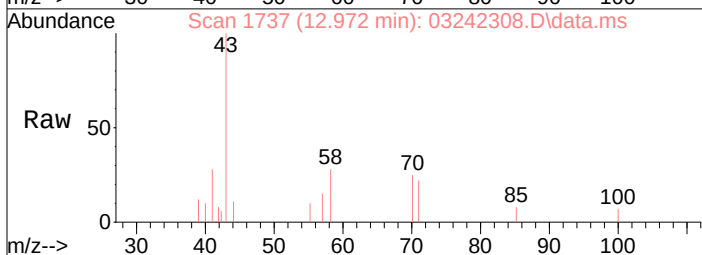
#58
Toluene
Concen: 1.66 ng
RT: 12.61 min Scan# 1673
Delta R.T. -0.011 min
Lab File: 03242308.D
Acq: 24 Mar 2023 9:41

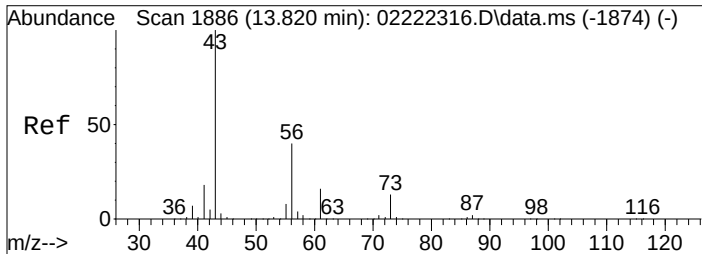
Tgt Ion: 91 Resp: 159903
Ion Ratio Lower Upper
91 100
92 57.3 38.0 78.0



#59
2-Hexanone
Concen: 0.10 ng
RT: 12.97 min Scan# 1737
Delta R.T. 0.006 min
Lab File: 03242308.D
Acq: 24 Mar 2023 9:41

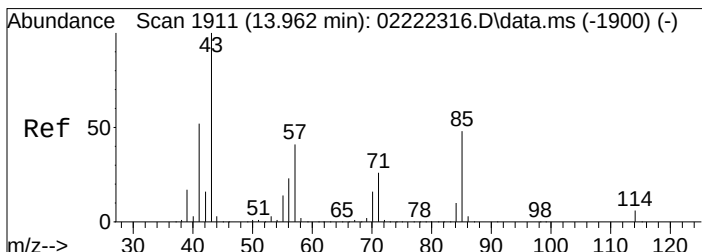
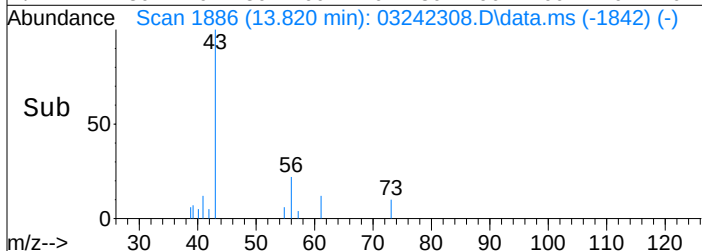
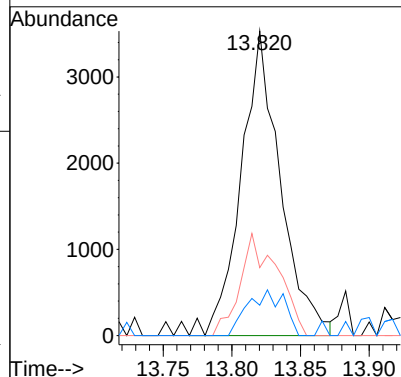
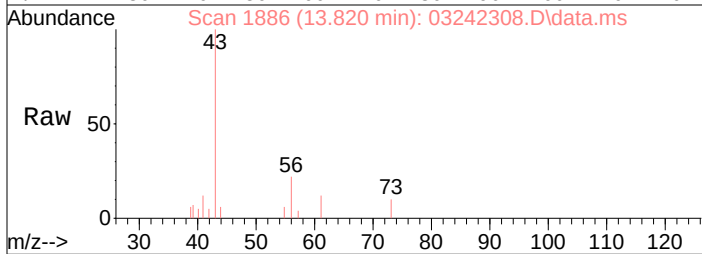
Tgt Ion: 43 Resp: 4819
Ion Ratio Lower Upper
43 100
58 37.4 34.5 74.5





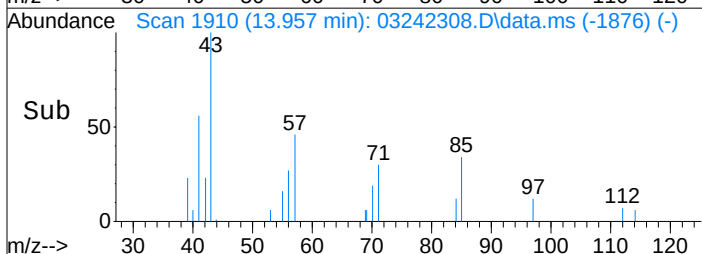
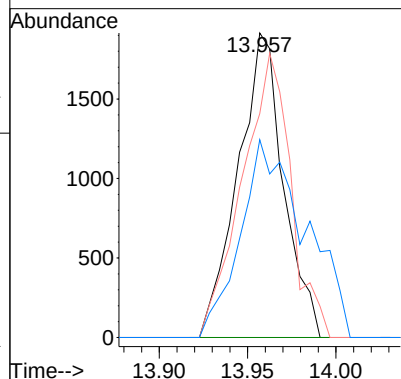
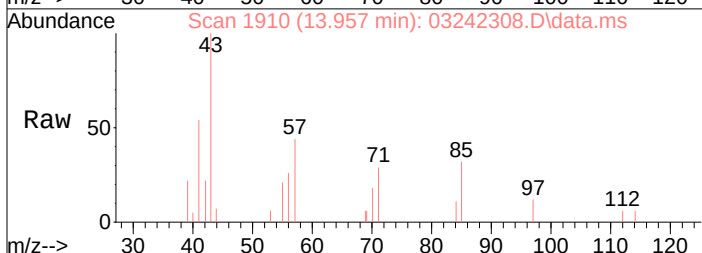
#62
n-Butyl Acetate
Concen: 0.13 ng
RT: 13.82 min Scan# 1886
Delta R.T. 0.000 min
Lab File: 03242308.D
Acq: 24 Mar 2023 9:41

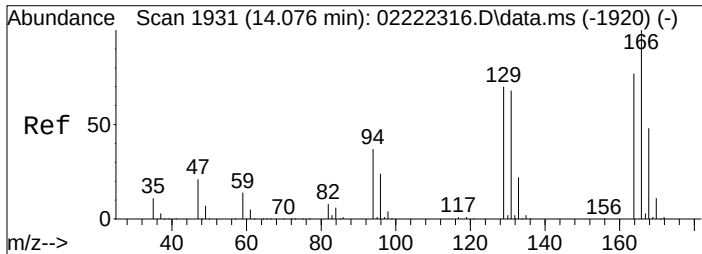
Tgt Ion:	43	Resp:	7038
Ion Ratio		Lower	Upper
43	100		
56	32.1	20.0	60.0
73	13.7	0.0	33.2



#63
n-Octane
Concen: 0.18 ng
RT: 13.96 min Scan# 1910
Delta R.T. -0.006 min
Lab File: 03242308.D
Acq: 24 Mar 2023 9:41

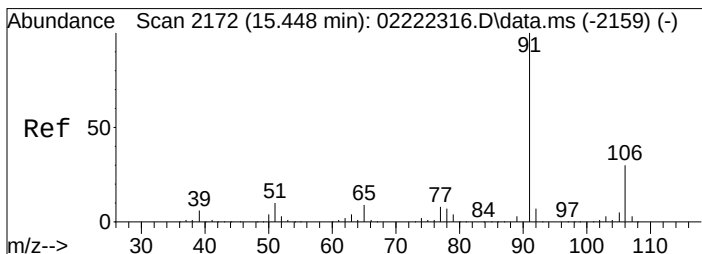
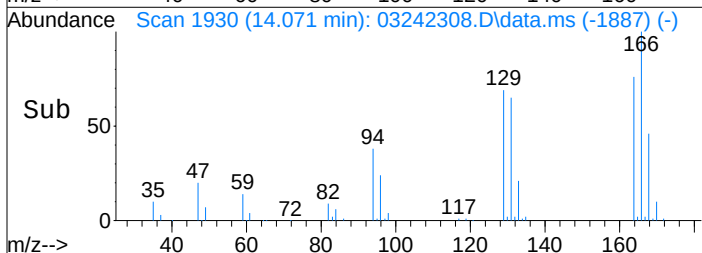
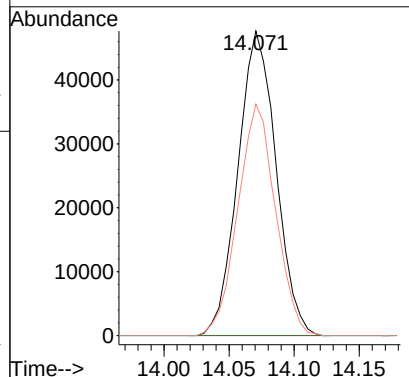
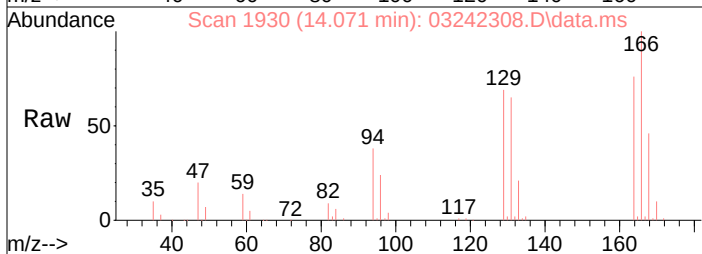
Tgt Ion:	57	Resp:	3432
Ion Ratio		Lower	Upper
57	100		
85	99.7	94.1	141.1
71	92.3	52.6	79.0#





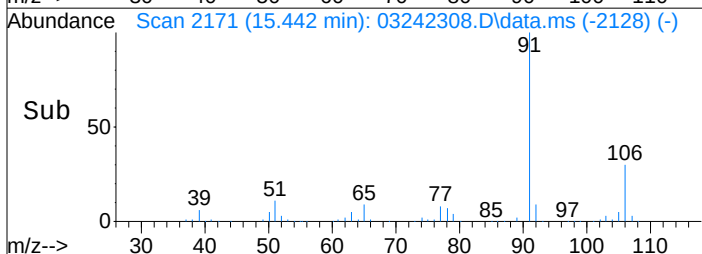
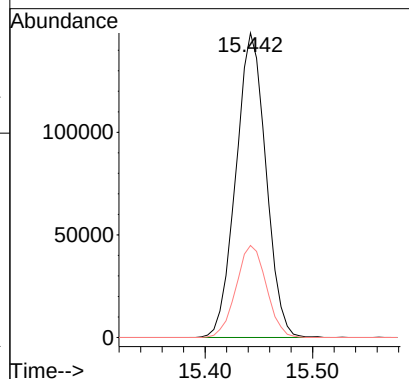
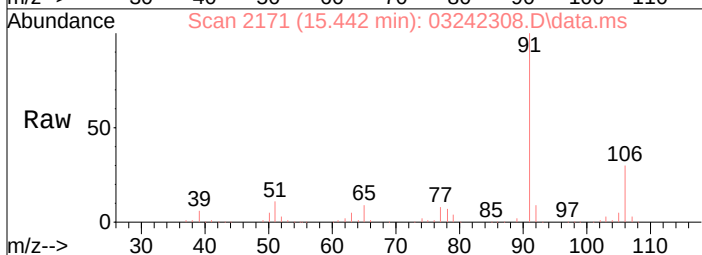
#64
 Tetrachloroethene
 Concen: 3.31 ng
 RT: 14.07 min Scan# 1930
 Delta R.T. -0.006 min
 Lab File: 03242308.D
 Acq: 24 Mar 2023 9:41

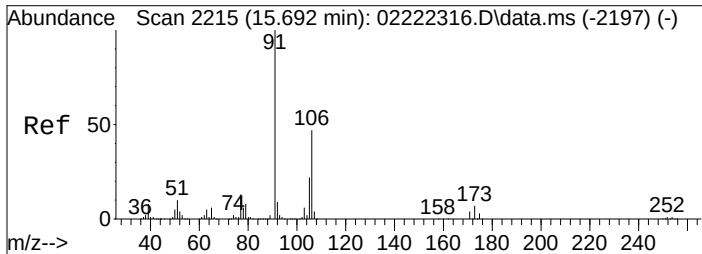
Tgt Ion:	166	Resp:	97021
Ion Ratio		Lower	Upper
166	100		
164	75.2	57.3	97.3



#66
 Ethylbenzene
 Concen: 2.50 ng
 RT: 15.44 min Scan# 2171
 Delta R.T. -0.006 min
 Lab File: 03242308.D
 Acq: 24 Mar 2023 9:41

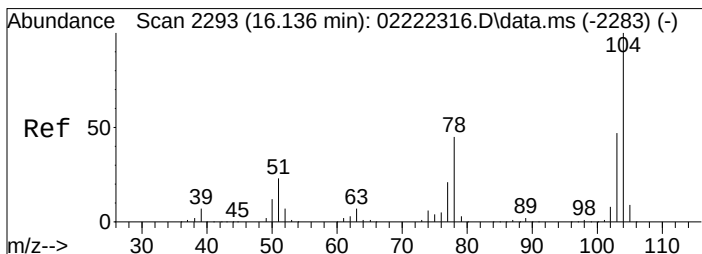
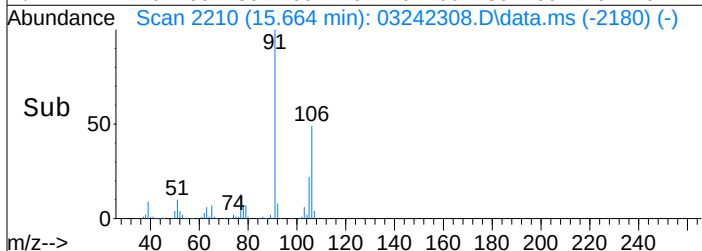
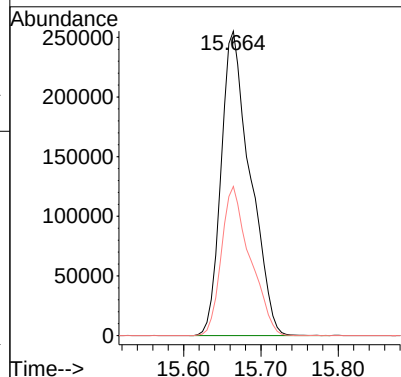
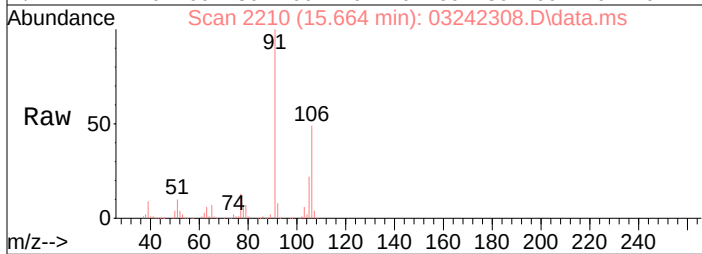
Tgt Ion:	91	Resp:	287775
Ion Ratio		Lower	Upper
91	100		
106	30.5	10.4	50.4





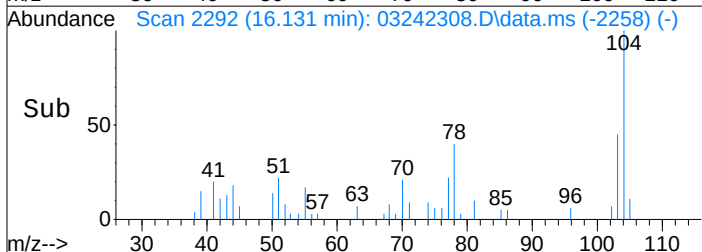
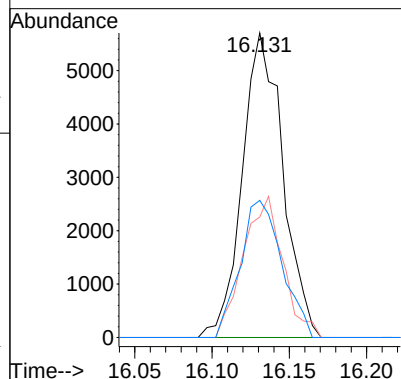
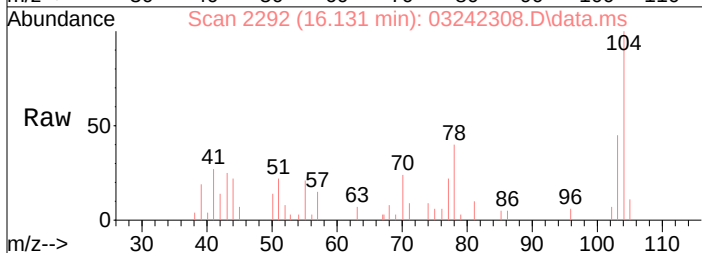
#67
m- & p-Xylenes
Concen: 7.22 ng
RT: 15.66 min Scan# 2210
Delta R.T. -0.028 min
Lab File: 03242308.D
Acq: 24 Mar 2023 9:41

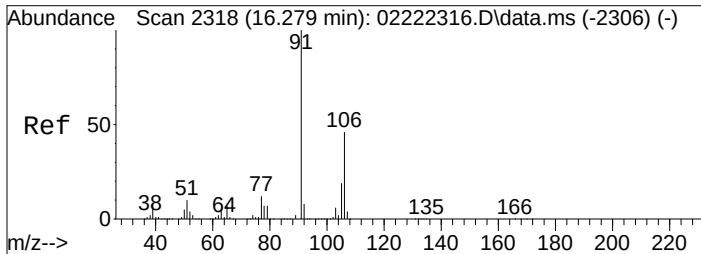
Tgt Ion:	91	Resp:	667280
Ion Ratio	Lower	Upper	
91	100		
106	48.3	26.2	66.2



#69
Styrene
Concen: 0.16 ng
RT: 16.13 min Scan# 2292
Delta R.T. -0.005 min
Lab File: 03242308.D
Acq: 24 Mar 2023 9:41

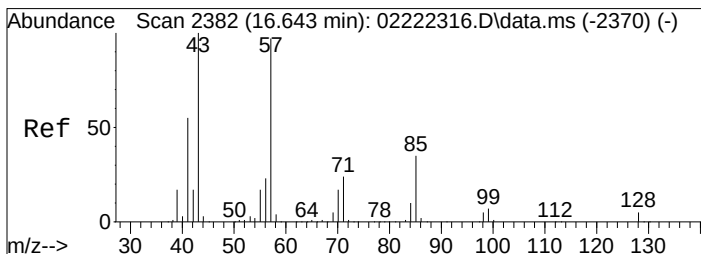
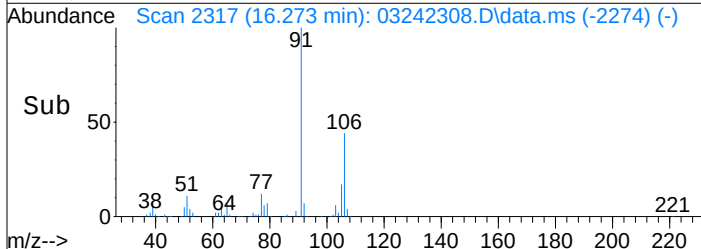
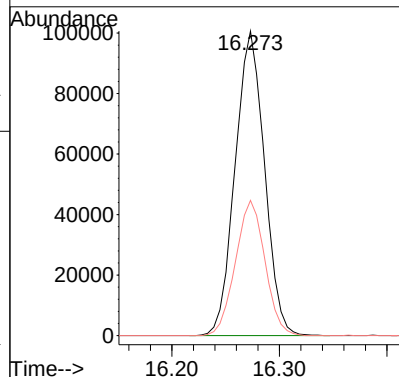
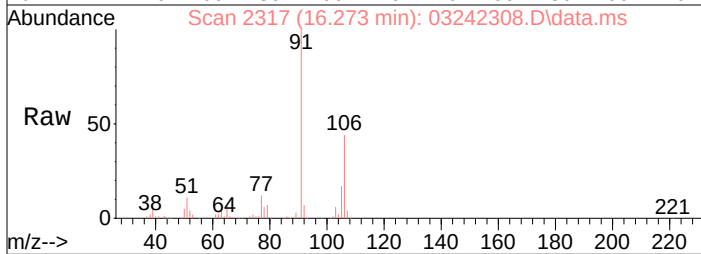
Tgt Ion:	104	Resp:	10406
Ion Ratio	Lower	Upper	
104	100		
78	45.3	24.7	64.7
103	46.3	27.8	67.8





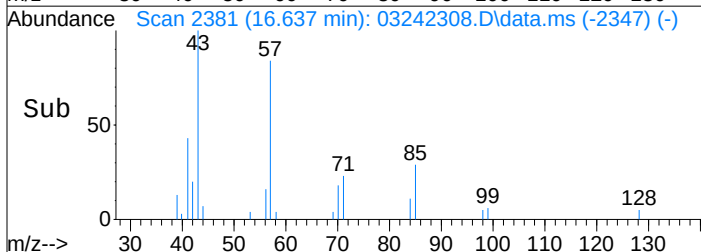
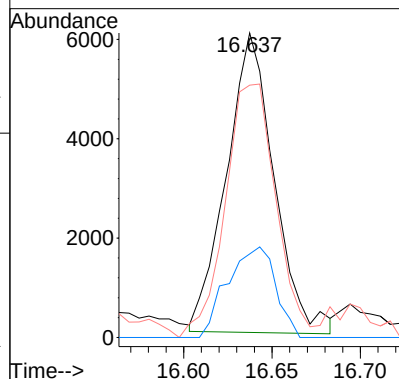
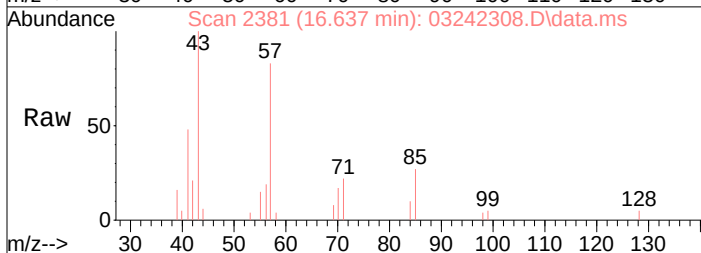
#70
o-Xylene
Concen: 2.16 ng
RT: 16.27 min Scan# 2317
Delta R.T. -0.006 min
Lab File: 03242308.D
Acq: 24 Mar 2023 9:41

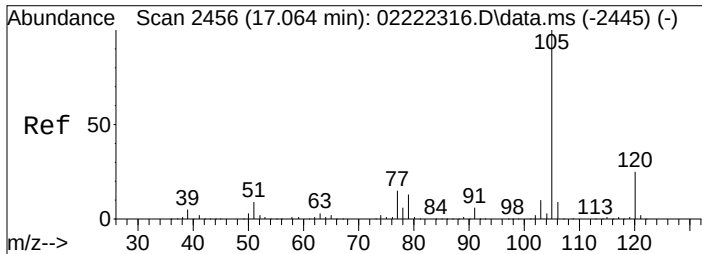
Tgt Ion: 91 Resp: 190878
Ion Ratio Lower Upper
91 100
106 44.6 25.4 65.4



#71
n-Nonane
Concen: 0.26 ng
RT: 16.64 min Scan# 2381
Delta R.T. -0.006 min
Lab File: 03242308.D
Acq: 24 Mar 2023 9:41

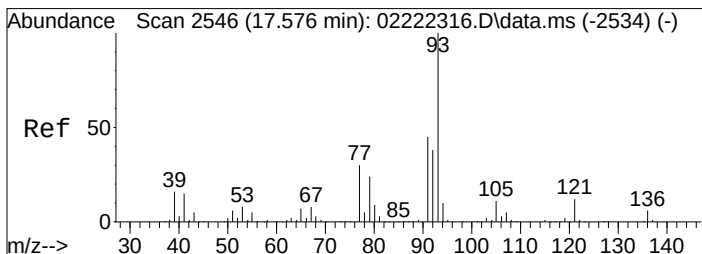
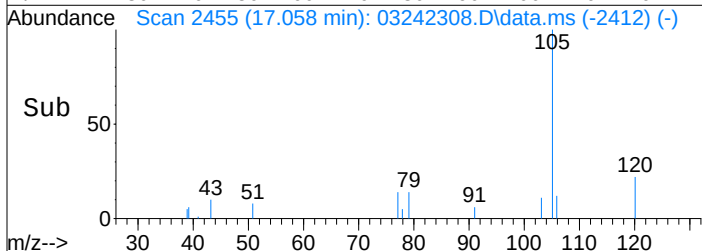
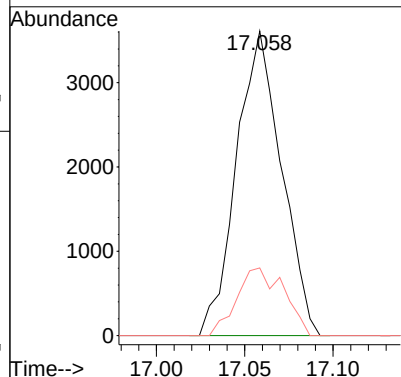
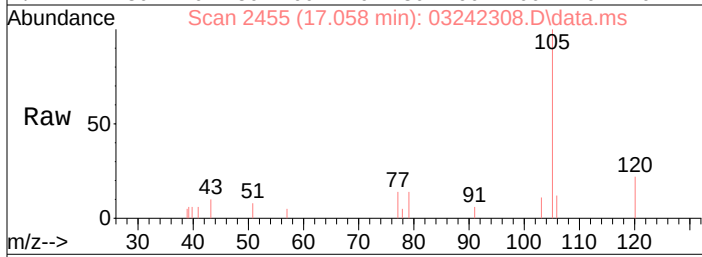
Tgt Ion: 43 Resp: 11292
Ion Ratio Lower Upper
43 100
57 89.6 74.2 114.2
85 30.6 14.2 54.2





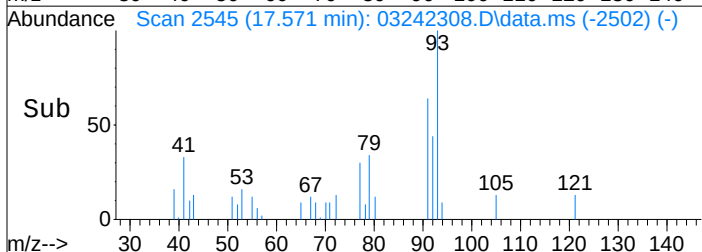
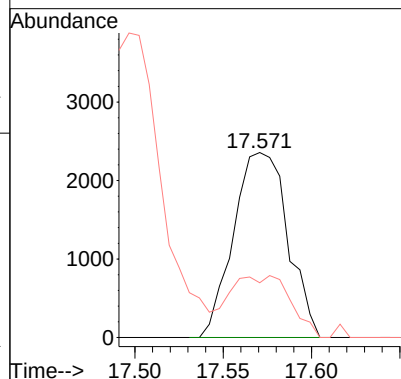
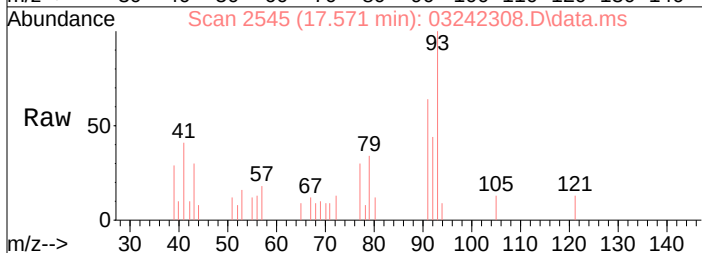
#74
Cumene
Concen: 0.06 ng
RT: 17.06 min Scan# 2455
Delta R.T. -0.006 min
Lab File: 03242308.D
Acq: 24 Mar 2023 9:41

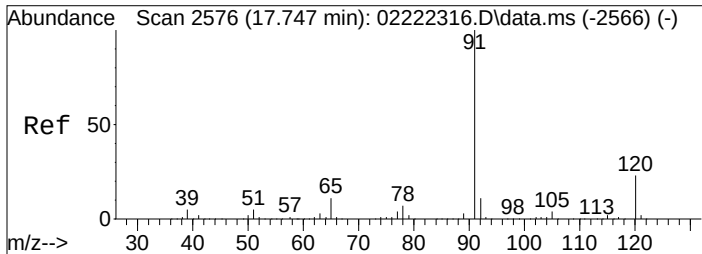
Tgt Ion: 105 Resp: 6414
Ion Ratio Lower Upper
105 100
120 23.3 5.2 45.2



#75
alpha-Pinene
Concen: 0.10 ng
RT: 17.57 min Scan# 2545
Delta R.T. -0.006 min
Lab File: 03242308.D
Acq: 24 Mar 2023 9:41

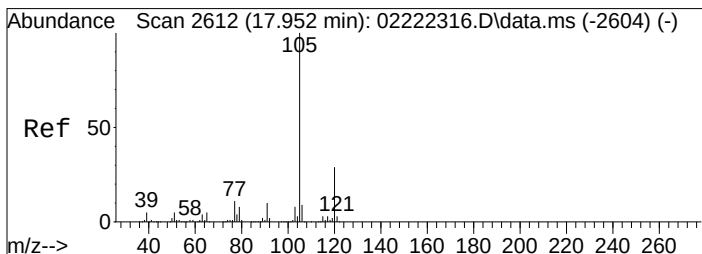
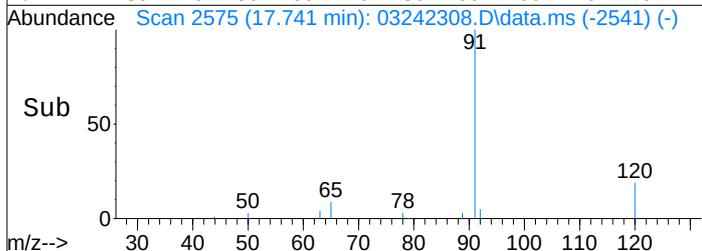
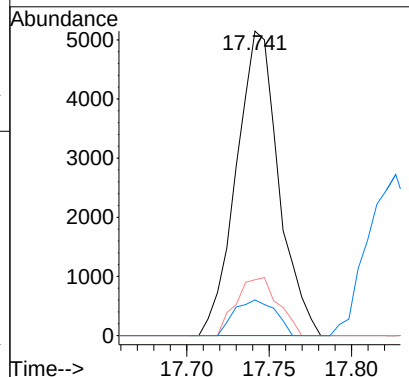
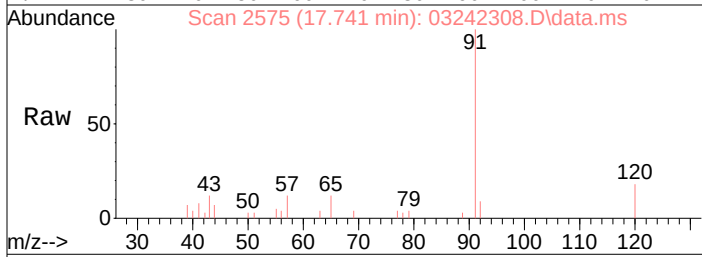
Tgt Ion: 93 Resp: 5038
Ion Ratio Lower Upper
93 100
77 38.1 11.1 51.1





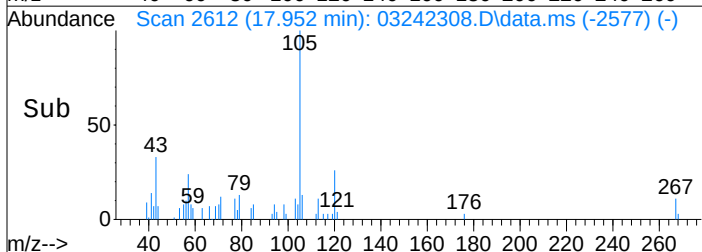
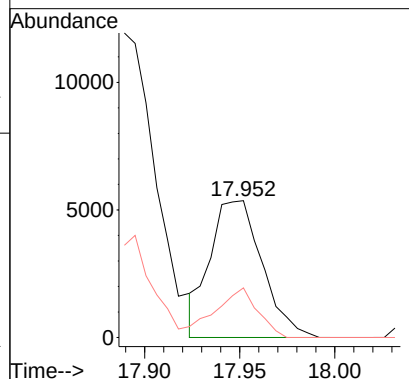
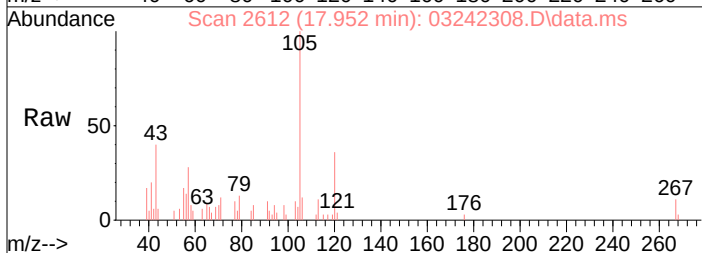
#76
 n-Propylbenzene
 Concen: 0.07 ng
 RT: 17.74 min Scan# 2575
 Delta R.T. -0.006 min
 Lab File: 03242308.D
 Acq: 24 Mar 2023 9:41

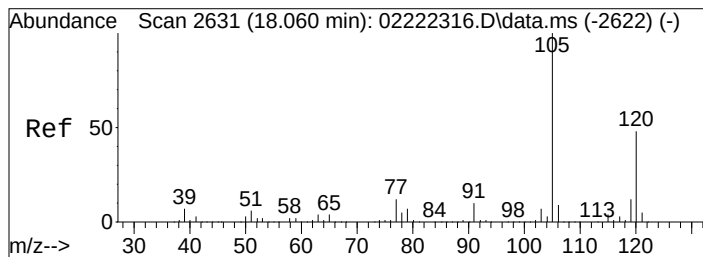
Tgt Ion:	91	Resp:	9210
Ion Ratio		Lower	Upper
91	100		
120	18.8	2.7	42.7
65	11.4	0.0	30.7



#78
 4-Ethyltoluene
 Concen: 0.10 ng
 RT: 17.95 min Scan# 2612
 Delta R.T. 0.000 min
 Lab File: 03242308.D
 Acq: 24 Mar 2023 9:41

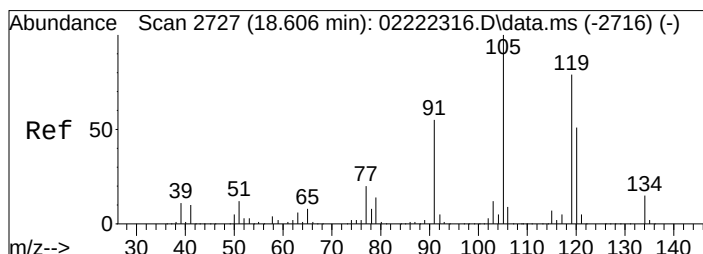
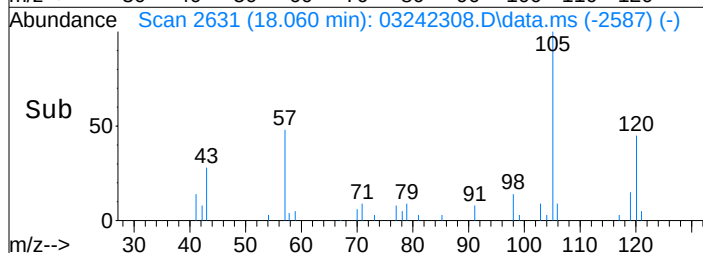
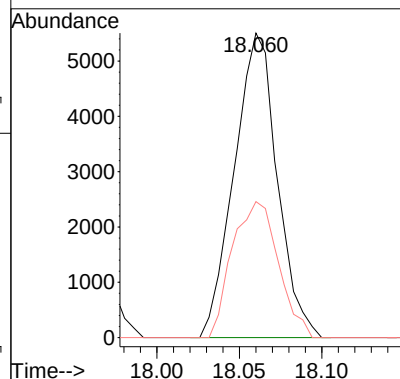
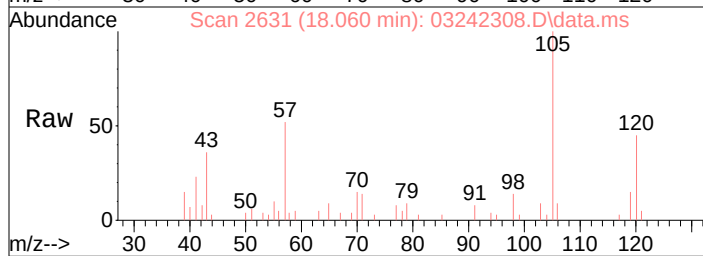
Tgt Ion:	105	Resp:	10244
Ion Ratio		Lower	Upper
105	100		
120	28.7	9.1	49.1





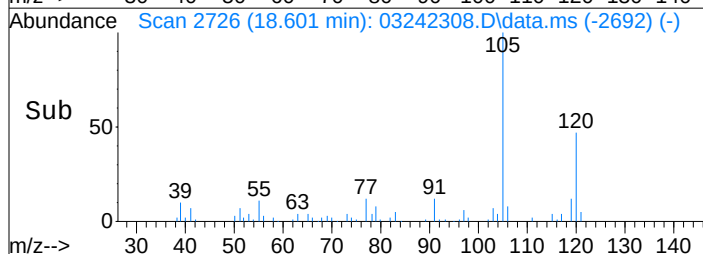
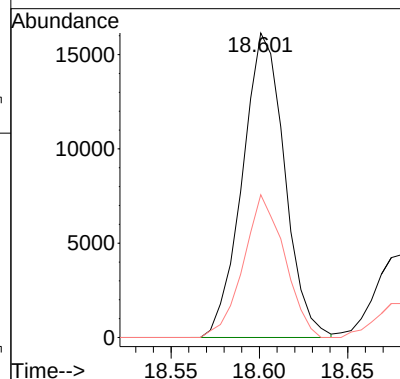
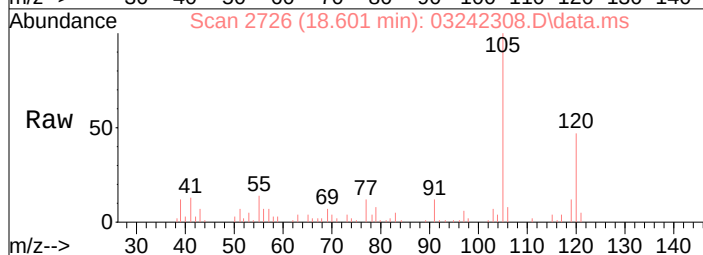
#79
 1,3,5-Trimethylbenzene
 Concen: 0.11 ng
 RT: 18.06 min Scan# 2631
 Delta R.T. 0.000 min
 Lab File: 03242308.D
 Acq: 24 Mar 2023 9:41

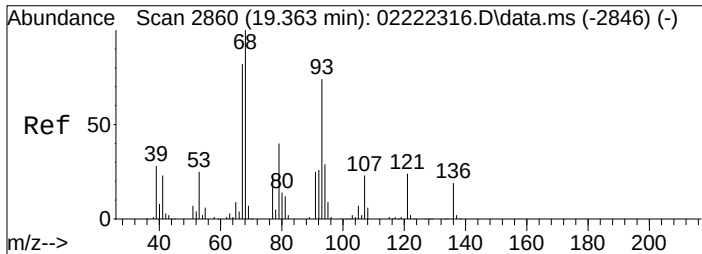
Tgt Ion:105 Resp: 9991
 Ion Ratio Lower Upper
 105 100
 120 47.8 28.4 68.4



#82
 1,2,4-Trimethylbenzene
 Concen: 0.30 ng
 RT: 18.60 min Scan# 2726
 Delta R.T. -0.006 min
 Lab File: 03242308.D
 Acq: 24 Mar 2023 9:41

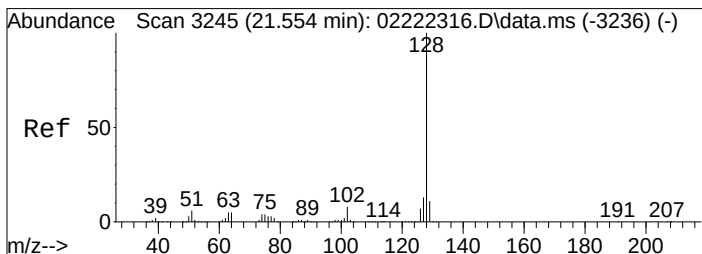
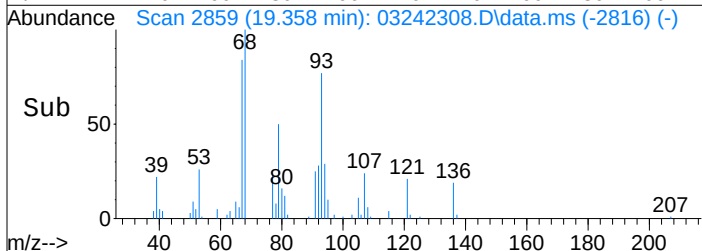
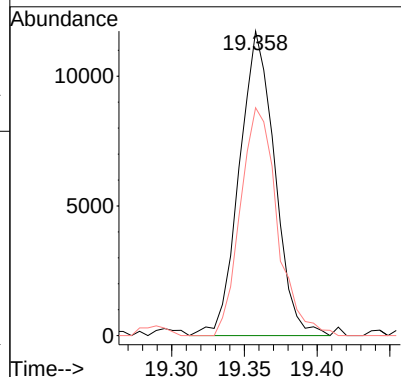
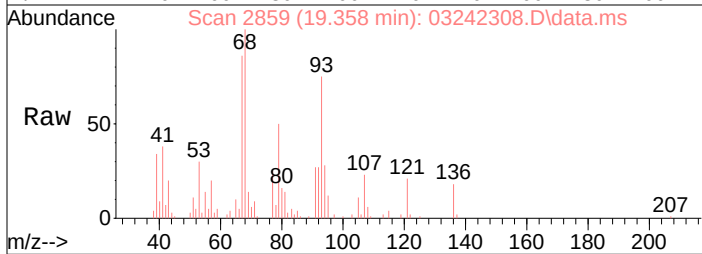
Tgt Ion:105 Resp: 26873
 Ion Ratio Lower Upper
 105 100
 120 45.6 32.8 72.8





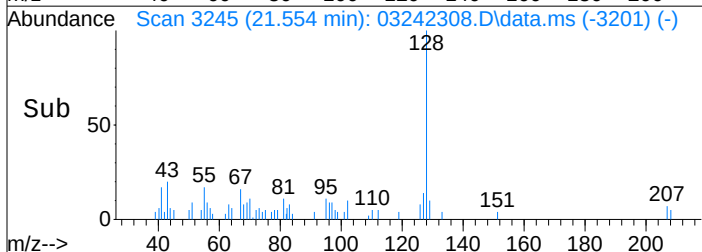
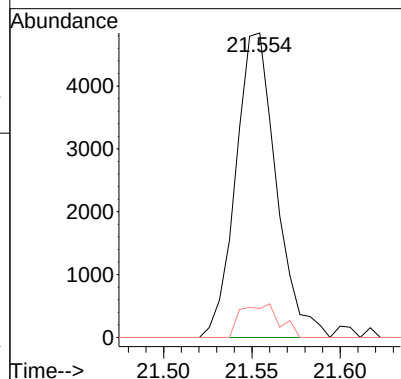
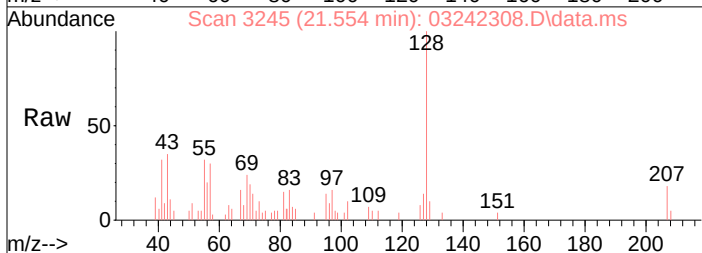
#91
d-Limonene
Concen: 0.65 ng
RT: 19.36 min Scan# 2859
Delta R.T. -0.006 min
Lab File: 03242308.D
Acq: 24 Mar 2023 9:41

Tgt Ion: 68 Resp: 19848
Ion Ratio Lower Upper
68 100
93 78.1 54.8 94.8



#95
Naphthalene
Concen: 0.08 ng
RT: 21.55 min Scan# 3245
Delta R.T. 0.000 min
Lab File: 03242308.D
Acq: 24 Mar 2023 9:41

Tgt Ion: 128 Resp: 7705
Ion Ratio Lower Upper
128 100
129 10.4 0.0 30.9



Data File : I:\MS13\DATA\2023_03\24\03242308.D
 Acq On : 24 Mar 2023 9:41
 Sample : P2301250-008 (500mL)
 Misc : S35-01202301

Vial: 15
 Operator: TZ
 Inst : MS13

T₂ 3/27/23

Quant Time: Mar 27 16:38:13 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.32	130	243211	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	9.38	114	1055277	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	14.88	54	196737	12.500	ng	0.00

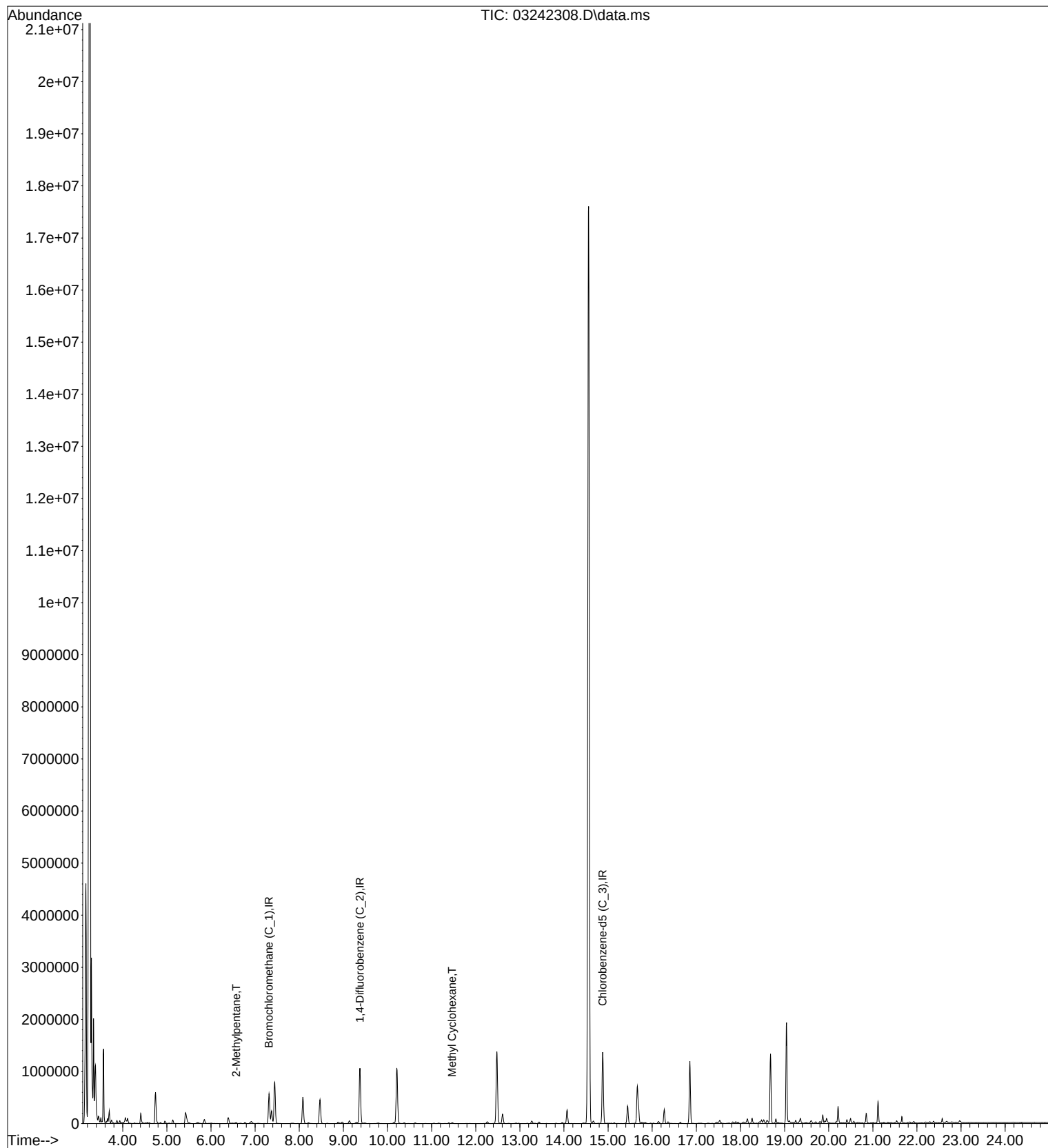
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	0.00	85	0	N.D.	d	
3) 1,1,1,2-Tetrafluoroeth...	0.00	83	0	N.D.	d	
4) 1,1-Difluoroethane	3.35	65	933	N.D.		
5) Chlorodifluoromethane ...	3.35	67	108	N.D.		
6) 1-Chloro-1,1-Difluoroe...	3.60	65	1008	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	0.00	43	0	N.D.	d	
12) 2-Methylpentane	6.58	71	4374	0.257	ng	# 1
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	0.00	84	0	N.D.	d	
17) 2,3-Dimethylpentane	9.58	56	1285	N.D.		
18) Dibromomethane	9.87	174	431	N.D.		
20) Methyl Cyclohexane	11.46	55	6041	0.184	ng	83
21) 1,3-Dichloropropane	12.61	76	691	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	15.22	91	85	N.D.		
24) 1,2,3-Trichloropropane	16.43	75	126	N.D.		
25) Bromobenzene	17.05	77	1101	N.D.		
26) 2-Chlorotoluene	0.00	91	0	N.D.	d	
27) 4-Chlorotoluene	0.00	91	0	N.D.	d	
28) Indane	19.39	117	2762	N.D.		
29) Indene	19.51	115	721	N.D.		
30) 1,2,4,5-Tetramethylben...	20.65	119	1981	N.D.		
31) 1,2,3,4-Tetramethylben...	20.70	119	2807	N.D.		
32) 1,2,3,5-Tetramethylben...	21.14	119	1279	N.D.		
33) 1,2,3-Trichlorobenzene	21.86	180	117	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242308.D
Acq On : 24 Mar 2023 9:41
Sample : P2301250-008 (500mL)
Misc : S35-01202301

Vial: 15
Operator: TZ
Inst : MS13

Quant Time: Mar 27 16:38:13 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG6A-2

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00657

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.31 Final Pressure (psig): 4.18

Container Dilution Factor: 1.66

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	0.88	0.14	0.49	0.18	0.029	
74-87-3	Chloromethane	ND	0.35	0.14	ND	0.17	0.069	
75-01-4	Vinyl Chloride	0.15	0.18	0.095	0.058	0.071	0.037	J
74-83-9	Bromomethane	ND	0.35	0.12	ND	0.090	0.032	
75-00-3	Chloroethane	ND	0.35	0.11	ND	0.13	0.042	
67-64-1	Acetone	56	8.7	2.0	23	3.7	0.84	
75-69-4	Trichlorofluoromethane	1.1	0.86	0.13	0.20	0.15	0.024	
75-35-4	1,1-Dichloroethene	0.22	0.18	0.12	0.055	0.046	0.031	
75-09-2	Methylene Chloride	5.2	0.88	0.25	1.5	0.25	0.072	
76-13-1	Trichlorotrifluoroethane	0.50	0.90	0.13	0.065	0.12	0.016	J
75-15-0	Carbon Disulfide	11	1.8	0.27	3.5	0.57	0.085	
156-60-5	trans-1,2-Dichloroethene	ND	0.18	0.12	ND	0.046	0.031	
75-34-3	1,1-Dichloroethane	ND	0.18	0.13	ND	0.045	0.032	
1634-04-4	Methyl tert-Butyl Ether	ND	0.90	0.10	ND	0.25	0.029	
78-93-3	2-Butanone (MEK)	5.2	1.7	0.18	1.8	0.59	0.062	
156-59-2	cis-1,2-Dichloroethene	ND	0.18	0.12	ND	0.046	0.031	
67-66-3	Chloroform	0.21	0.18	0.12	0.044	0.037	0.024	
107-06-2	1,2-Dichloroethane	ND	0.18	0.098	ND	0.045	0.024	
71-55-6	1,1,1-Trichloroethane	5.5	0.18	0.11	1.0	0.033	0.020	
71-43-2	Benzene	1.0	0.18	0.13	0.31	0.057	0.040	
56-23-5	Carbon Tetrachloride	0.58	0.18	0.12	0.093	0.029	0.020	
110-82-7	Cyclohexane	0.87	1.7	0.25	0.25	0.51	0.072	J
78-87-5	1,2-Dichloropropane	ND	0.18	0.11	ND	0.040	0.024	
75-27-4	Bromodichloromethane	ND	0.18	0.13	ND	0.027	0.019	
79-01-6	Trichloroethene	2.5	0.18	0.12	0.46	0.034	0.022	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG6A-2

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00657

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.31 Final Pressure (psig): 4.18

Container Dilution Factor: 1.66

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.90	0.14	ND	0.20	0.030	
108-10-1	4-Methyl-2-pentanone	1.2	1.8	0.12	0.29	0.45	0.030	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.85	0.18	ND	0.19	0.040	
79-00-5	1,1,2-Trichloroethane	ND	0.18	0.090	ND	0.033	0.016	
108-88-3	Toluene	5.7	0.88	0.11	1.5	0.23	0.029	
591-78-6	2-Hexanone	ND	1.8	0.11	ND	0.45	0.027	
124-48-1	Dibromochloromethane	ND	0.18	0.12	ND	0.021	0.014	
106-93-4	1,2-Dibromoethane	ND	0.18	0.10	ND	0.024	0.013	
127-18-4	Tetrachloroethene	53	0.18	0.11	7.8	0.027	0.017	
108-90-7	Chlorobenzene	0.14	0.88	0.12	0.031	0.19	0.026	J
100-41-4	Ethylbenzene	1.1	0.88	0.12	0.25	0.20	0.029	
179601-23-1	m,p-Xylenes	4.3	1.8	0.23	1.0	0.42	0.054	
75-25-2	Bromoform	ND	0.90	0.18	ND	0.087	0.018	
100-42-5	Styrene	0.66	0.88	0.14	0.16	0.21	0.034	J
95-47-6	o-Xylene	1.9	0.88	0.13	0.44	0.20	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.18	0.12	ND	0.027	0.018	
98-82-8	Cumene	0.24	0.90	0.13	0.049	0.18	0.026	J
541-73-1	1,3-Dichlorobenzene	ND	0.88	0.13	ND	0.15	0.022	
106-46-7	1,4-Dichlorobenzene	0.17	0.88	0.14	0.029	0.15	0.023	J
95-50-1	1,2-Dichlorobenzene	0.19	0.90	0.13	0.031	0.15	0.022	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.8	0.17	ND	0.19	0.017	
120-82-1	1,2,4-Trichlorobenzene	ND	1.8	0.22	ND	0.25	0.029	
79-20-9	Methyl Acetate	ND	0.83	0.40	ND	0.27	0.13	X
108-87-2	Methylcyclohexane	2.8	0.83	0.43	0.70	0.21	0.11	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS13\DATA\2023_03\24\03242311.D
 Acq On : 24 Mar 2023 11:53
 Sample : P2301250-009 (1000mL)
 Misc : S35-01202301

Vial: 2
 Operator: TZ
 Inst : MS13

TZ 3/27/23

Quant Time: Mar 27 11:50:57 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.33	130	236495	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	9.38	114	1021652	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	198367	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.09	65	401250	12.785	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.32%
57) Toluene-d8 (SS2)	12.48	98	1163006	11.400	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	91.20%
73) Bromofluorobenzene (SS3)	16.85	174	446672	11.955	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	95.60%

Target Compounds

						Qvalue
2) Propene	3.39	42	19095	0.807	ng	# 59
3) Dichlorodifluoromethan...	3.46	85	63573	1.468	ng	100
4) Chloromethane	0.00	50	0	N.D.	d	
5) 1,2-Dichloro-1,1,2,2-t...	3.72	135	1444	0.066	ng	96
6) Vinyl Chloride	3.80	62	2591	0.090	ng	100
7) 1,3-Butadiene	0.00	54	0	N.D.	d	
8) Bromomethane	0.00	94	0	N.D.	d	
9) Chloroethane	4.28	64	305	N.D.		
10) Ethanol	4.44	45	891055	53.051	ng	100
11) Acetonitrile	4.56	41	6324	0.145	ng	# 43
12) Acrolein	4.64	56	7512	0.541	ng	94
13) Acetone	4.74	58	479851	33.474	ng	98
14) Trichlorofluoromethane	4.87	101	26233	0.673	ng	98
15) 2-Propanol (Isopropanol)	4.98	45	185540	3.206	ng	97
16) Acrylonitrile	0.00	53	0	N.D.	d	
17) 1,1-Dichloroethene	5.36	96	2618	0.131	ng	# 62
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.45	84	65810	3.132	ng	95
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	5.68	151	6169	0.301	ng	94
22) Carbon Disulfide	5.70	76	547686	6.582	ng	99
23) trans-1,2-Dichloroethene	6.24	61	325	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.	d	
25) Methyl tert-Butyl Ether	6.47	73	2625	N.D.		
26) Vinyl Acetate	6.54	86	6559	1.692	ng	# 91
27) 2-Butanone (MEK)	6.77	72	40124	3.153	ng	96
28) cis-1,2-Dichloroethene	7.17	61	168	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	7.37	61	187266	22.379	ng	95
31) n-Hexane	7.38	57	21222	0.659	ng	97
32) Chloroform	7.46	83	4874	0.128	ng	99
34) Tetrahydrofuran (THF)	7.85	72	3525	0.270	ng	# 36
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.20	62	229	N.D.		
38) 1,1,1-Trichloroethane	8.48	97	112808	3.336	ng	99
39) Isopropyl Acetate	9.38	61	30240	No Calib		
40) 1-Butanol	8.88	56	56521	No Calib	#	
41) Benzene	8.98	78	47946	0.603	ng	97
42) Carbon Tetrachloride	9.15	117	10514	0.352	ng	97
43) Cyclohexane	9.29	84	15282	0.524	ng	90
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.	d	
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.	d	
47) Trichloroethene	10.22	130	34666	1.489	ng	96
48) 1,4-Dioxane	10.19	88	103271	6.446	ng	97
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.	d	
50) Methyl Methacrylate	10.49	100	353	N.D.		

Data File : I:\MS13\DATA\2023_03\24\03242311.D
 Acq On : 24 Mar 2023 11:53
 Sample : P2301250-009 (1000mL)
 Misc : S35-01202301

Vial: 2
 Operator: TZ
 Inst : MS13

Quant Time: Mar 27 11:50:57 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

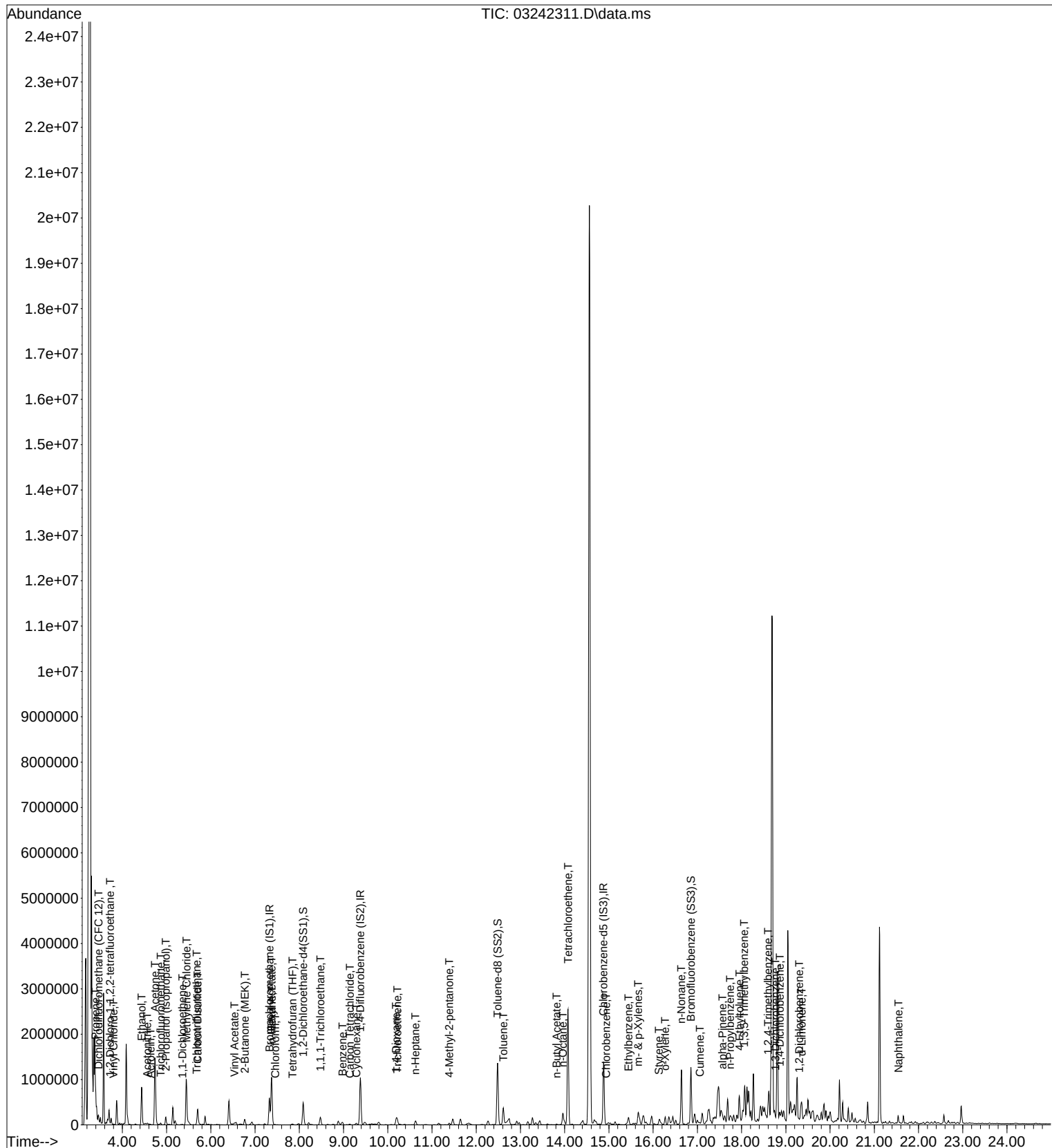
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.63	71	23233	1.208	ng	96
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.39	58	12384	0.723	ng	96
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.61	91	332205	3.421	ng	99
59) 2-Hexanone	0.00	43	0	N.D.	d	
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.82	43	16872	0.315	ng	93
63) n-Octane	13.96	57	49122	2.572	ng	95
64) Tetrachloroethene	14.08	166	946238	32.028	ng	98
65) Chlorobenzene	14.94	112	5414	0.085	ng	97
66) Ethylbenzene	15.44	91	76529	0.661	ng	99
67) m- & p-Xylenes	15.66	91	243417	2.610	ng	97
68) Bromoform	15.72	173	260	N.D.		
69) Styrene	16.13	104	25609	0.399	ng	98
70) o-Xylene	16.27	91	102930	1.154	ng	98
71) n-Nonane	16.64	43	497877	11.539	ng	98
72) 1,1,2,2-Tetrachloroethane	16.23	83	229	N.D.		
74) Cumene	17.06	105	15797	0.146	ng	99
75) alpha-Pinene	17.57	93	13174	0.263	ng	96
76) n-Propylbenzene	17.74	91	33187	0.255	ng	93
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	34374	0.330	ng	95
79) 1,3,5-Trimethylbenzene	18.06	105	95058	1.033	ng	99
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.60	105	139695	1.540	ng	91
83) n-Decane	17.01	58	1725	No Calib	#	
84) Benzyl Chloride	18.80	91	1822	N.D.		
85) 1,3-Dichlorobenzene	18.77	146	3858	0.070	ng	88
86) 1,4-Dichlorobenzene	18.86	146	5902	0.104	ng	96
87) sec-Butylbenzene	0.00	105	0	N.D.	d	
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.	d	
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.30	146	6137	0.113	ng	93
91) d-Limonene	19.36	68	46618	1.520	ng	92
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.26	58	24313	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.42	180	1154	N.D.		
95) Naphthalene	21.55	128	19075	0.194	ng	98
96) n-Dodecane	19.20	58	6084	No Calib	#	
97) Hexachlorobutadiene	21.98	225	497	N.D.		
98) Cyclohexanone	15.68	55	1091	No Calib	#	
99) tert-Butylbenzene	0.00	119	0	N.D.	d	
100) n-Butylbenzene	0.00	91	0	N.D.	d	
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242311.D
Acq On : 24 Mar 2023 11:53
Sample : P2301250-009 (1000mL)
Misc : S35-01202301

Vial: 2
Operator: TZ
Inst : MS13

Quant Time: Mar 27 11:50:57 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242311.D
 Acq On : 24 Mar 2023 11:53
 Sample : P2301250-009 (1000mL)
 Misc : S35-01202301

Vial: 2
 Operator: TZ
 Inst : MS13

T2 3/27/23

Quant Time: Mar 27 11:50:57 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.33	130	236495	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	9.38	114	1021652	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	198367	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.09	65	401250	12.785	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.32%
57) Toluene-d8 (SS2)	12.48	98	1163006	11.400	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	91.20%
73) Bromofluorobenzene (SS3)	16.85	174	446672	11.955	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	95.60%

Target Compounds

						Qvalue
2) Propene	3.39	42	19095	0.807	ng	# 59
3) Dichlorodifluoromethan...	3.46	85	63573	1.468	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	3.72	135	1444	0.066	ng	96
6) Vinyl Chloride	3.80	62	2591	0.090	ng	100
10) Ethanol	4.44	45	891055	53.051	ng	100
11) Acetonitrile	4.56	41	6324	0.145	ng	# 43
12) Acrolein	4.64	56	7512	0.541	ng	94
13) Acetone	4.74	58	479851	33.474	ng	98
14) Trichlorofluoromethane	4.87	101	26233	0.673	ng	98
15) 2-Propanol (Isopropanol)	4.98	45	185540	3.206	ng	97
17) 1,1-Dichloroethene	5.36	96	2618	0.131	ng	# 62
19) Methylene Chloride	5.45	84	65810	3.132	ng	95
21) Trichlorotrifluoroethane	5.68	151	6169	0.301	ng	94
22) Carbon Disulfide	5.70	76	547686	6.582	ng	99
26) Vinyl Acetate	6.54	86	6559	1.692	ng	# 91
27) 2-Butanone (MEK)	6.77	72	40124	3.153	ng	96
30) Ethyl Acetate	7.37	61	187266	22.379	ng	95
31) n-Hexane	7.38	57	21222	0.659	ng	97
32) Chloroform	7.46	83	4874	0.128	ng	99
34) Tetrahydrofuran (THF)	7.85	72	3525	0.270	ng	# 36
38) 1,1,1-Trichloroethane	8.48	97	112808	3.336	ng	99
41) Benzene	8.98	78	47946	0.603	ng	97
42) Carbon Tetrachloride	9.15	117	10514	0.352	ng	97
43) Cyclohexane	9.29	84	15282	0.524	ng	90
47) Trichloroethene	10.22	130	34666	1.489	ng	96
48) 1,4-Dioxane	10.19	88	103271	6.446	ng	97
51) n-Heptane	10.63	71	23233	1.208	ng	96
53) 4-Methyl-2-pentanone	11.39	58	12384	0.723	ng	96
58) Toluene	12.61	91	332205	3.421	ng	99
62) n-Butyl Acetate	13.82	43	16872	0.315	ng	93
63) n-Octane	13.96	57	49122	2.572	ng	95
64) Tetrachloroethene	14.08	166	946238	32.028	ng	98
65) Chlorobenzene	14.94	112	5414	0.085	ng	97
66) Ethylbenzene	15.44	91	76529	0.661	ng	99
67) m- & p-Xylenes	15.66	91	243417	2.610	ng	97
69) Styrene	16.13	104	25609	0.399	ng	98
70) o-Xylene	16.27	91	102930	1.154	ng	98
71) n-Nonane	16.64	43	497877	11.539	ng	98
74) Cumene	17.06	105	15797	0.146	ng	99
75) alpha-Pinene	17.57	93	13174	0.263	ng	96
76) n-Propylbenzene	17.74	91	33187	0.255	ng	93
78) 4-Ethyltoluene	17.95	105	34374	0.330	ng	95
79) 1,3,5-Trimethylbenzene	18.06	105	95058	1.033	ng	99
82) 1,2,4-Trimethylbenzene	18.60	105	139695	1.540	ng	91
85) 1,3-Dichlorobenzene	18.77	146	3858	0.070	ng	88
86) 1,4-Dichlorobenzene	18.86	146	5902	0.104	ng	96
90) 1,2-Dichlorobenzene	19.30	146	6137	0.113	ng	93

Data File : I:\MS13\DATA\2023_03\24\03242311.D
Acq On : 24 Mar 2023 11:53
Sample : P2301250-009 (1000mL)
Misc : S35-01202301

Vial: 2
Operator: TZ
Inst : MS13

Quant Time: Mar 27 11:50:57 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M

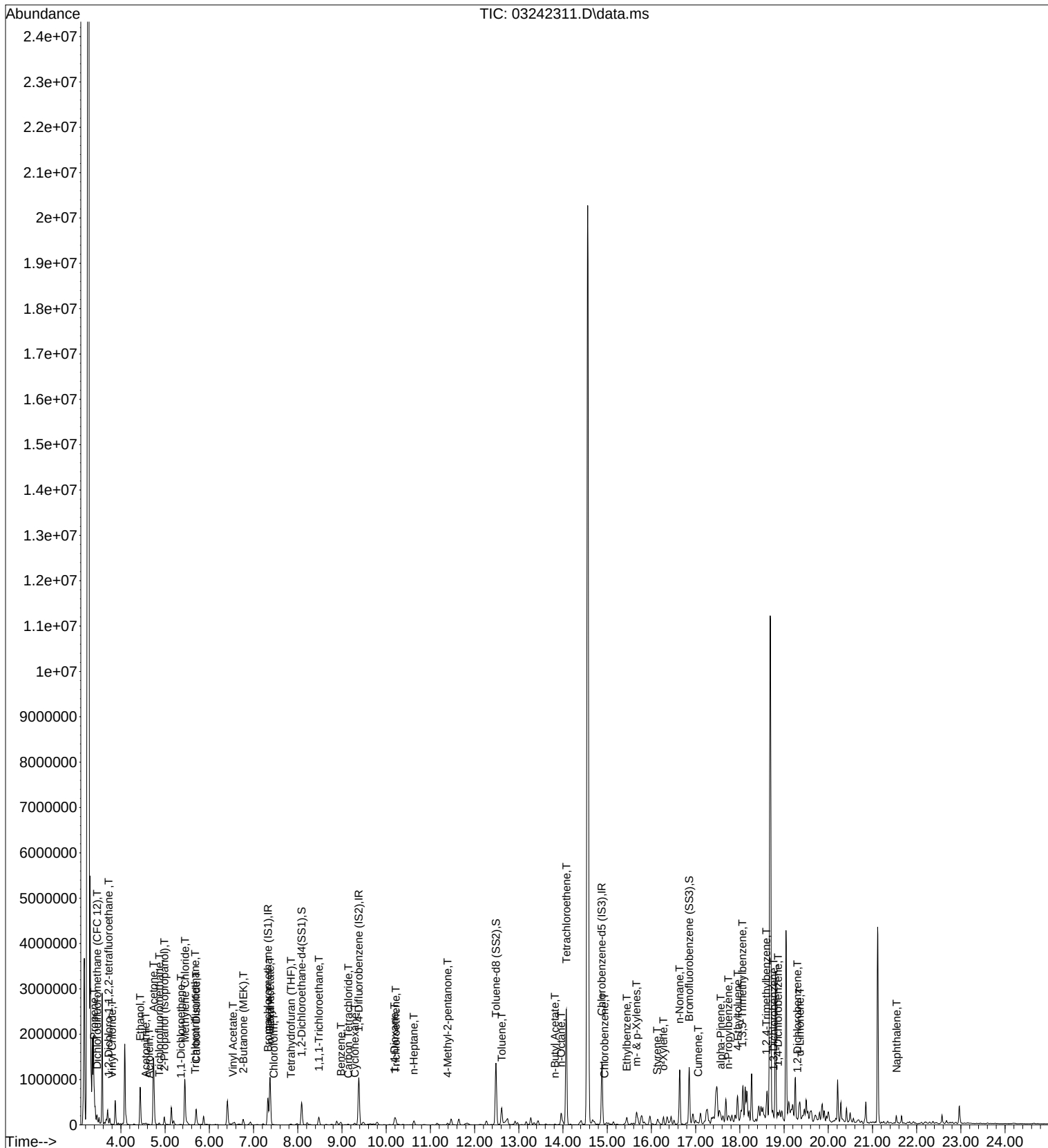
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) d-Limonene	19.36	68	46618	1.520	ng	92
95) Naphthalene	21.55	128	19075	0.194	ng	98

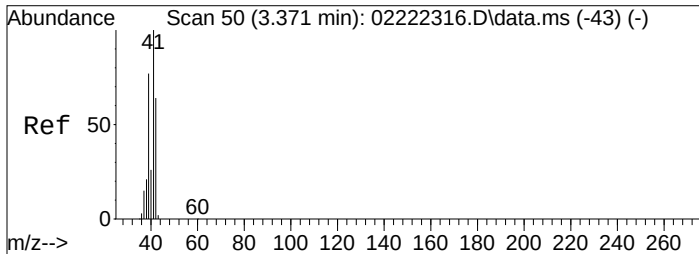
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS13\DATA\2023_03\24\03242311.D
Acq On : 24 Mar 2023 11:53
Sample : P2301250-009 (1000mL)
Misc : S35-01202301

Vial: 2
Operator: TZ
Inst : MS13

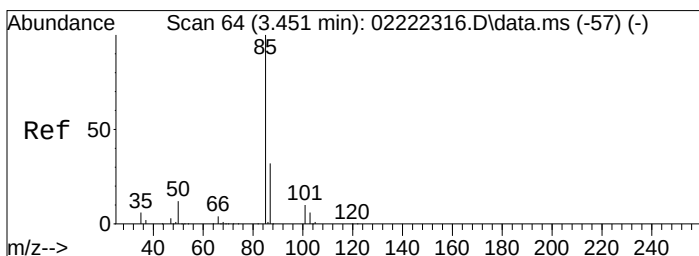
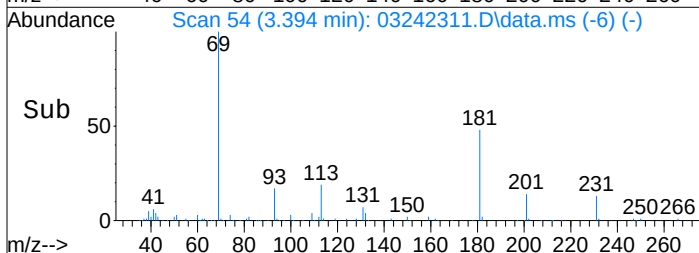
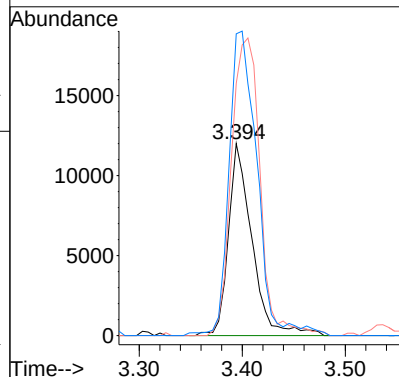
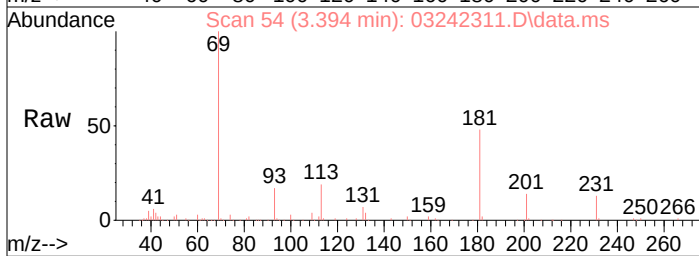
Quant Time: Mar 27 11:50:57 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:TO15.M





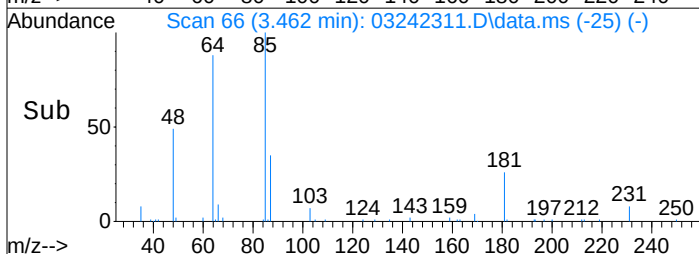
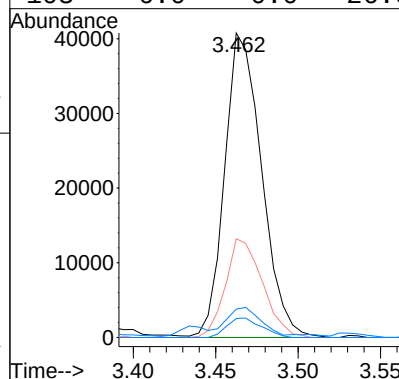
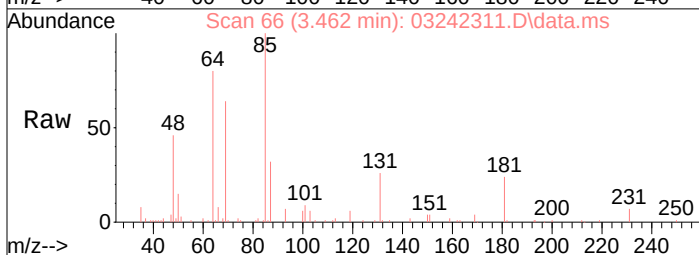
#2
 Propene
 Concen: 0.81 ng
 RT: 3.39 min Scan# 54
 Delta R.T. 0.023 min
 Lab File: 03242311.D
 Acq: 24 Mar 2023 11:53

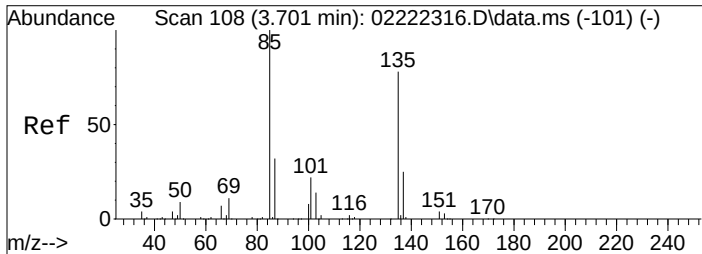
Tgt Ion:	42	Resp:	19095
Ion Ratio		Lower	Upper
42	100		
39	188.0	100.7	140.7#
41	187.8	134.4	174.4#



#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.47 ng
 RT: 3.46 min Scan# 66
 Delta R.T. -0.016 min
 Lab File: 03242311.D
 Acq: 24 Mar 2023 11:53

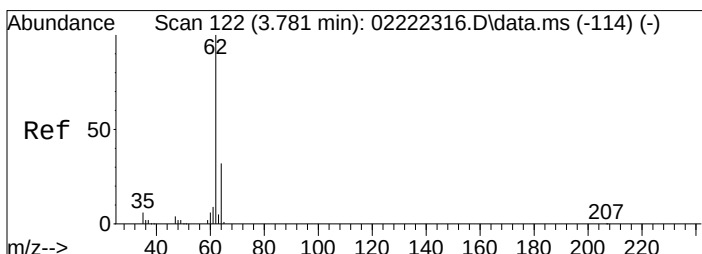
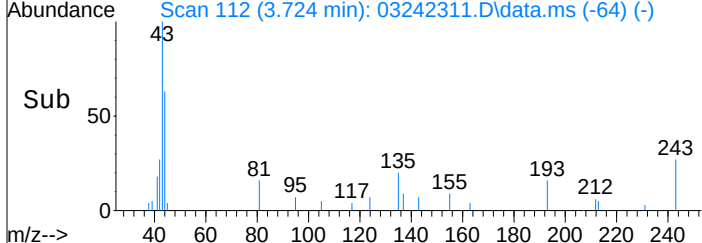
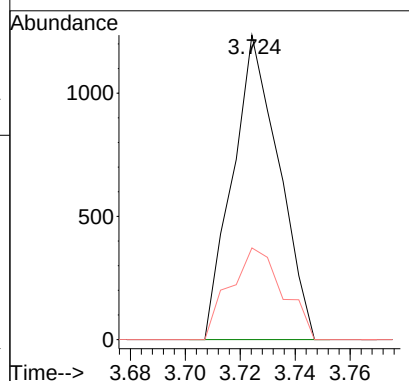
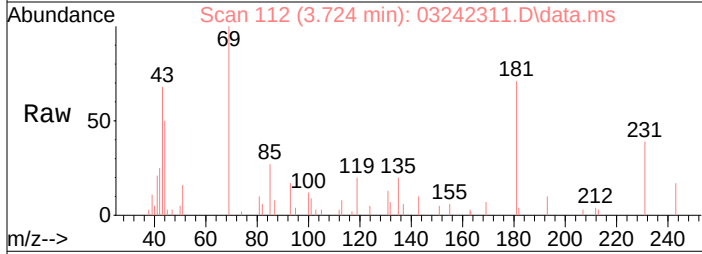
Tgt Ion:	85	Resp:	63573
Ion Ratio		Lower	Upper
85	100		
87	32.4	12.4	52.4
101	8.9	0.0	29.4
103	6.0	0.0	26.0





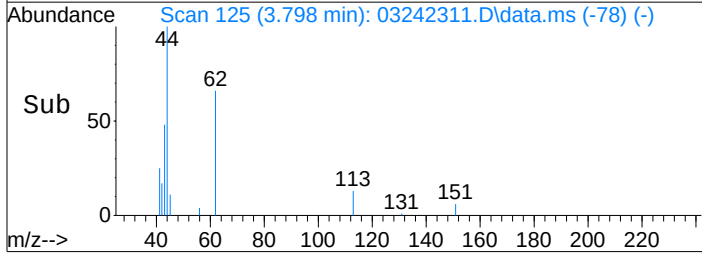
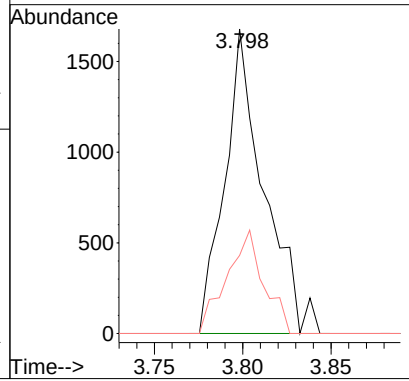
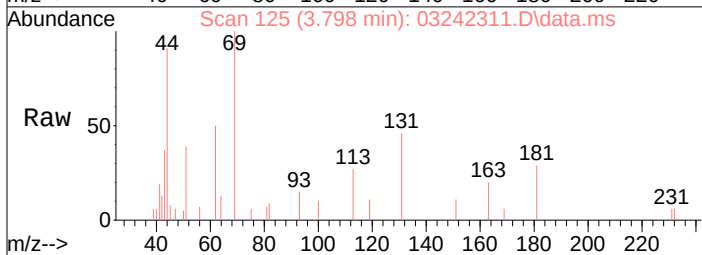
#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.07 ng
 RT: 3.72 min Scan# 112
 Delta R.T. 0.023 min
 Lab File: 03242311.D
 Acq: 24 Mar 2023 11:53

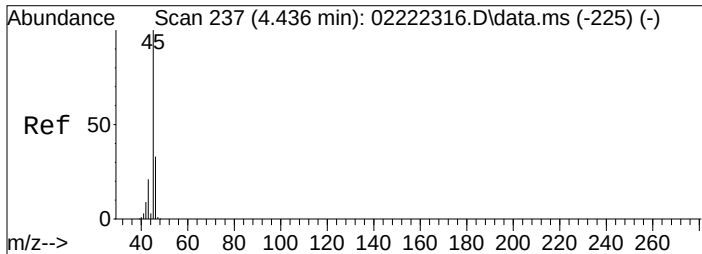
Tgt Ion: 135	Resp: 1444
Ion Ratio	Lower Upper
135	100
137	34.4 12.2 52.2



#6
 Vinyl Chloride
 Concen: 0.09 ng
 RT: 3.80 min Scan# 125
 Delta R.T. 0.017 min
 Lab File: 03242311.D
 Acq: 24 Mar 2023 11:53

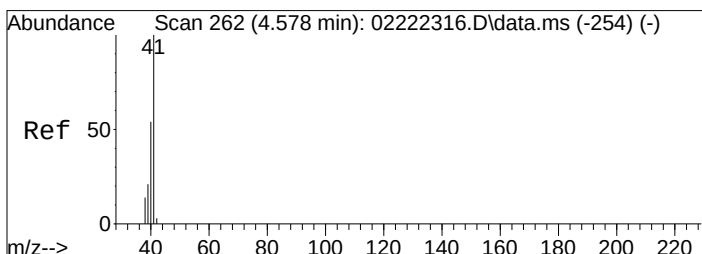
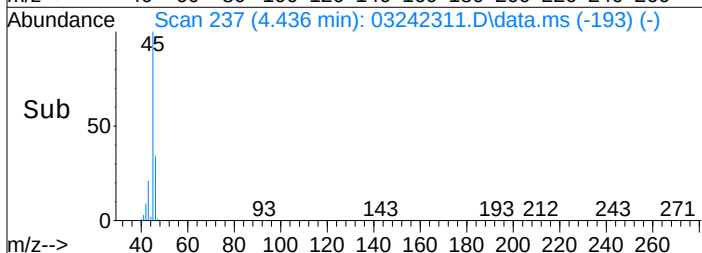
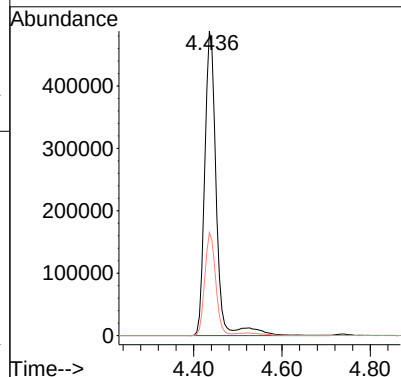
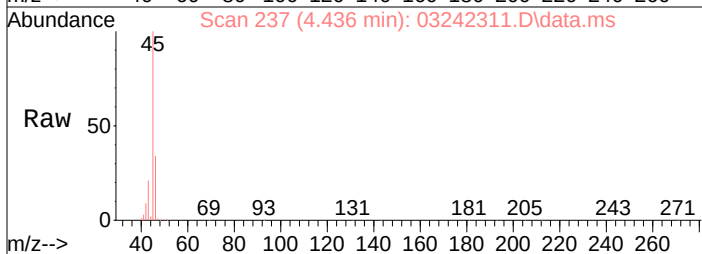
Tgt Ion: 62	Resp: 2591
Ion Ratio	Lower Upper
62	100
64	32.1 11.8 51.8





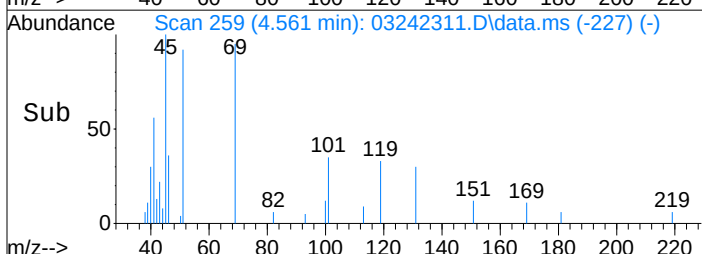
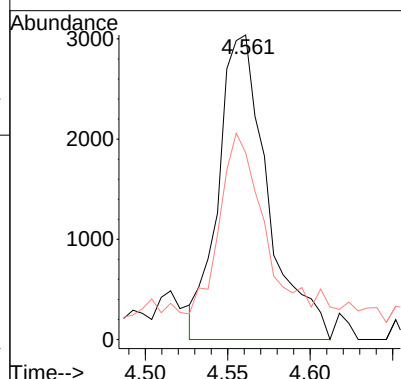
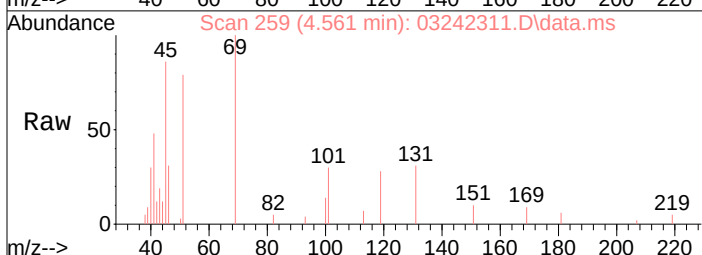
#10
Ethanol
Concen: 53.05 ng
RT: 4.44 min Scan# 237
Delta R.T. 0.000 min
Lab File: 03242311.D
Acq: 24 Mar 2023 11:53

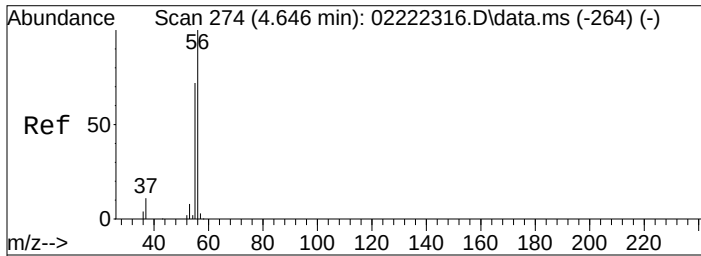
Tgt Ion: 45 Resp: 891055
Ion Ratio Lower Upper
45 100
46 33.8 13.8 53.8



#11
Acetonitrile
Concen: 0.14 ng
RT: 4.56 min Scan# 259
Delta R.T. -0.017 min
Lab File: 03242311.D
Acq: 24 Mar 2023 11:53

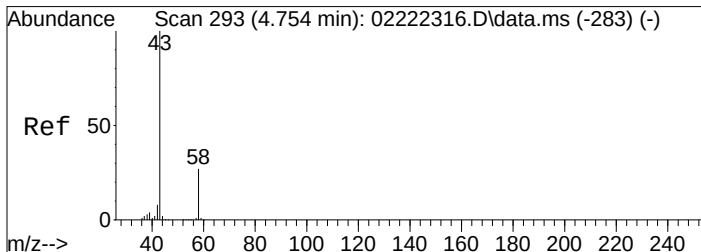
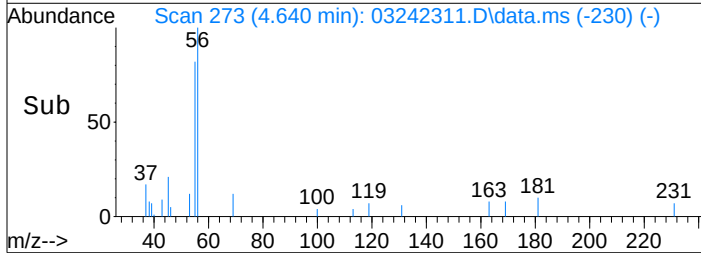
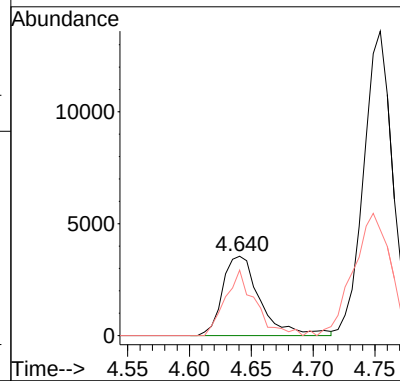
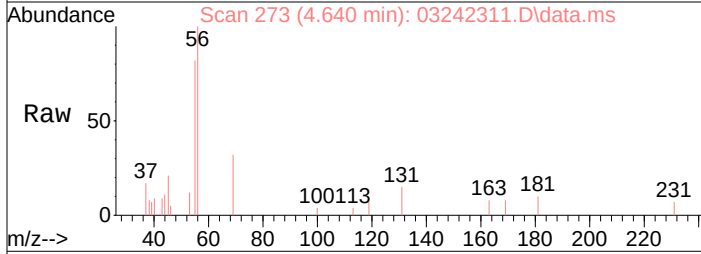
Tgt Ion: 41 Resp: 6324
Ion Ratio Lower Upper
41 100
40 95.4 34.4 74.4#





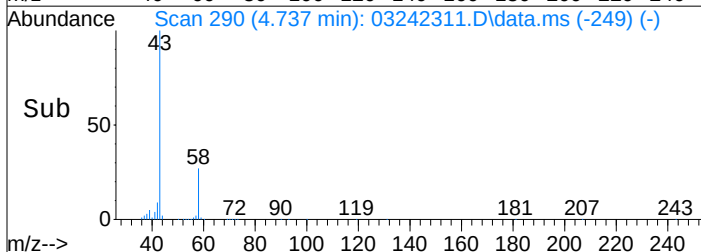
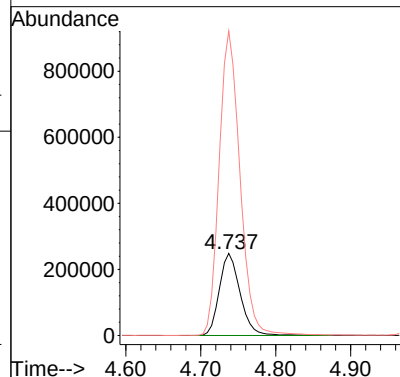
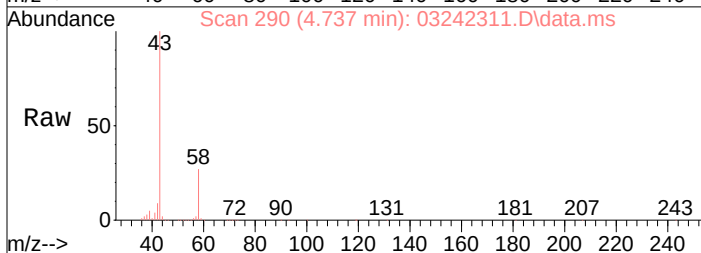
#12
Acrolein
Concen: 0.54 ng
RT: 4.64 min Scan# 273
Delta R.T. -0.006 min
Lab File: 03242311.D
Acq: 24 Mar 2023 11:53

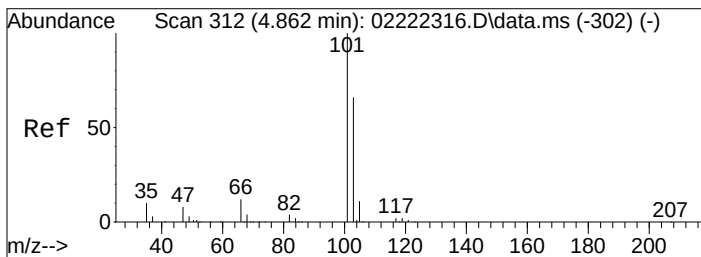
Tgt Ion: 56 Resp: 7512
Ion Ratio Lower Upper
56 100
55 65.9 50.9 90.9



#13
Acetone
Concen: 33.47 ng
RT: 4.74 min Scan# 290
Delta R.T. -0.017 min
Lab File: 03242311.D
Acq: 24 Mar 2023 11:53

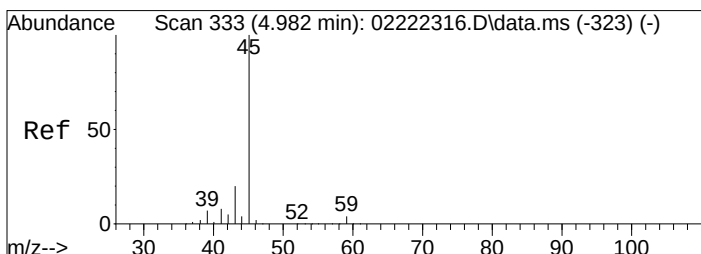
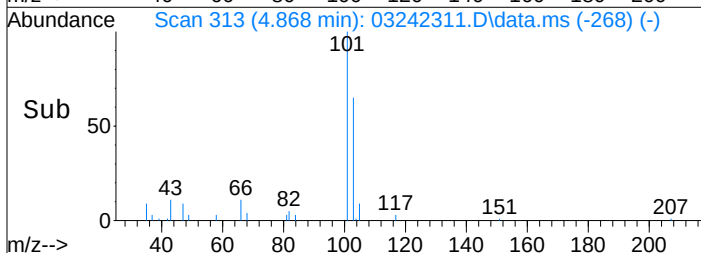
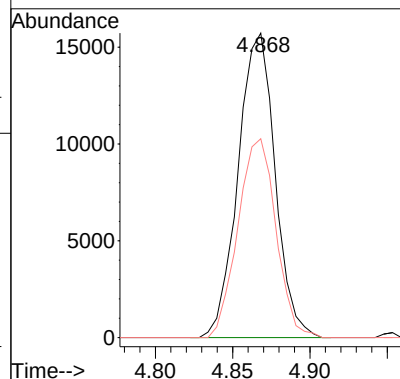
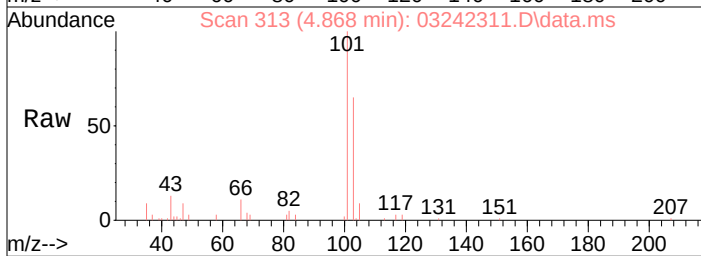
Tgt Ion: 58 Resp: 479851
Ion Ratio Lower Upper
58 100
43 372.8 337.8 397.8





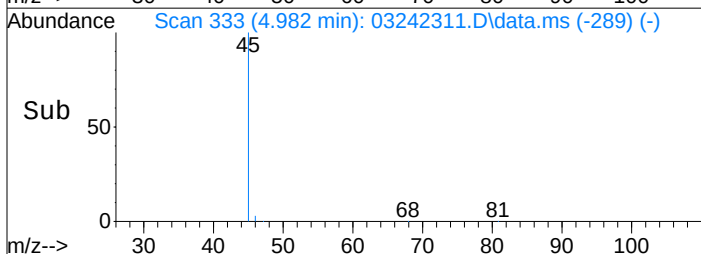
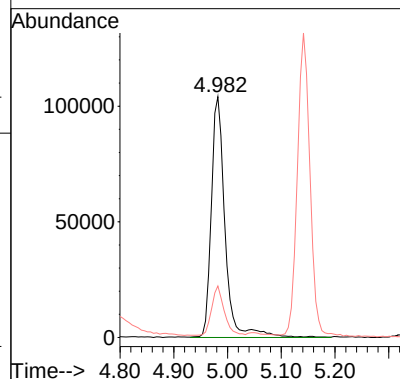
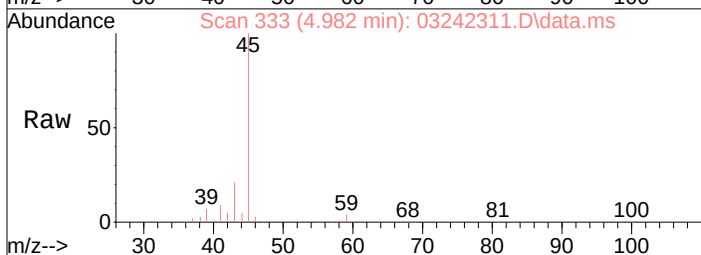
#14
 Trichlorofluoromethane
 Concen: 0.67 ng
 RT: 4.87 min Scan# 313
 Delta R.T. 0.006 min
 Lab File: 03242311.D
 Acq: 24 Mar 2023 11:53

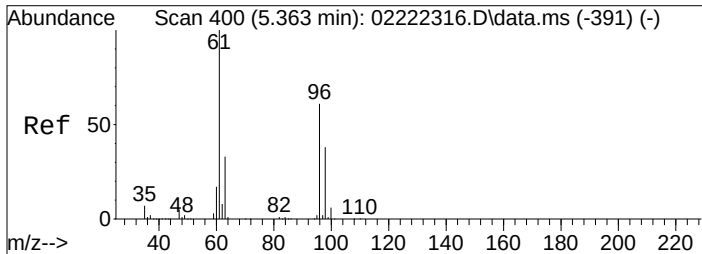
Tgt Ion: 101 Resp: 26233
 Ion Ratio Lower Upper
 101 100
 103 67.0 45.2 85.2



#15
 2-Propanol (Isopropanol)
 Concen: 3.21 ng
 RT: 4.98 min Scan# 333
 Delta R.T. 0.000 min
 Lab File: 03242311.D
 Acq: 24 Mar 2023 11:53

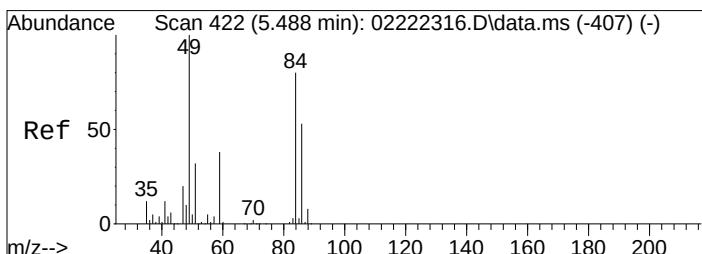
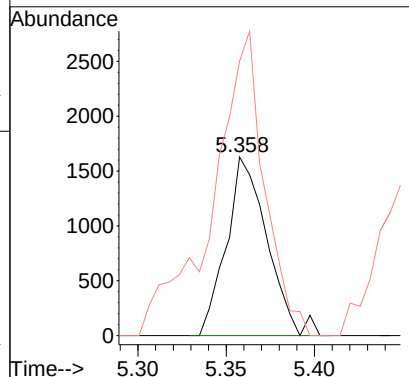
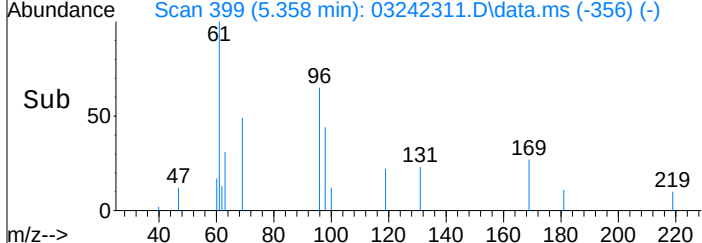
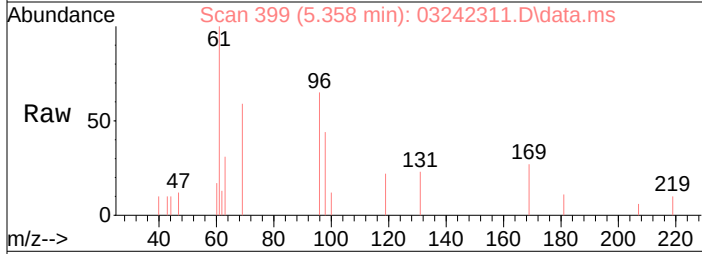
Tgt Ion: 45 Resp: 185540
 Ion Ratio Lower Upper
 45 100
 43 21.1 0.0 39.7





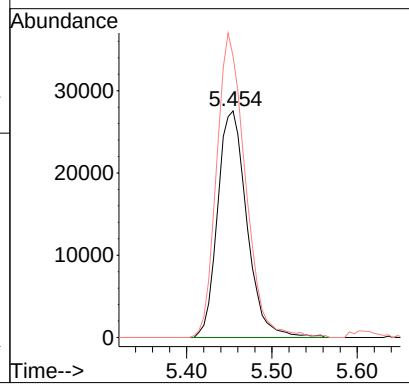
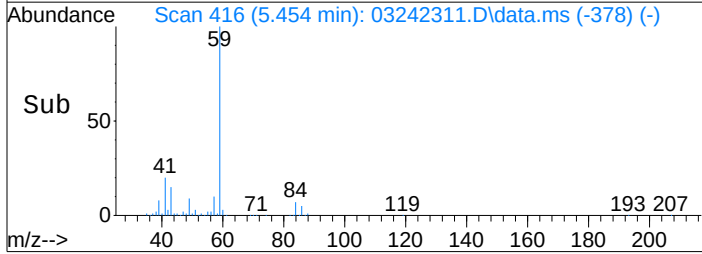
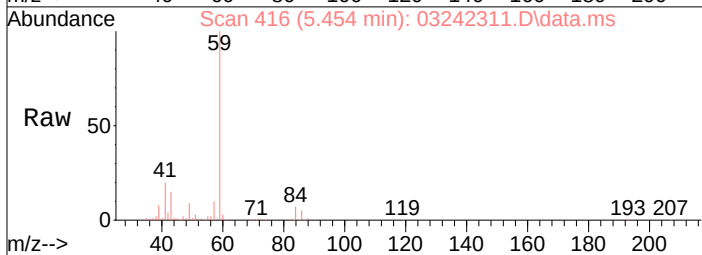
#17
 1,1-Dichloroethene
 Concen: 0.13 ng
 RT: 5.36 min Scan# 399
 Delta R.T. -0.006 min
 Lab File: 03242311.D
 Acq: 24 Mar 2023 11:53

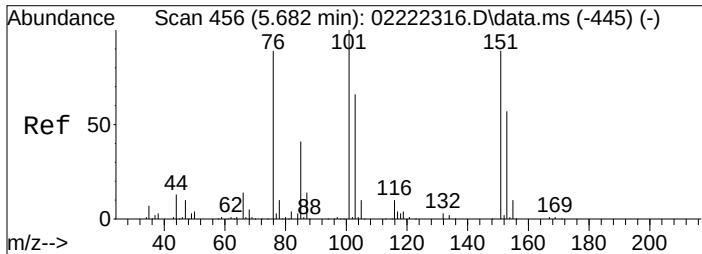
Tgt Ion: 96 Resp: 2618
 Ion Ratio Lower Upper
 96 100
 61 217.1 145.7 185.7#



#19
 Methylene Chloride
 Concen: 3.13 ng
 RT: 5.45 min Scan# 416
 Delta R.T. -0.034 min
 Lab File: 03242311.D
 Acq: 24 Mar 2023 11:53

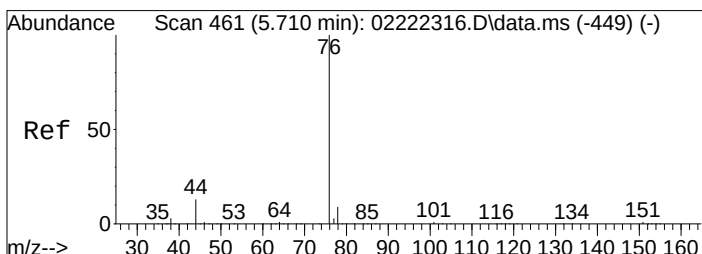
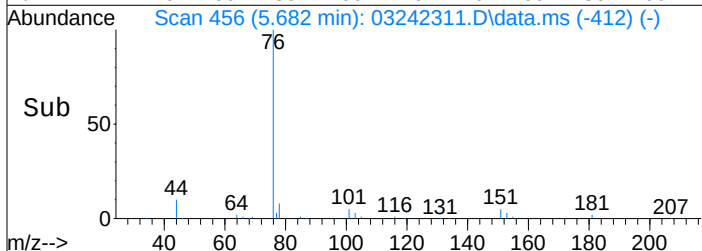
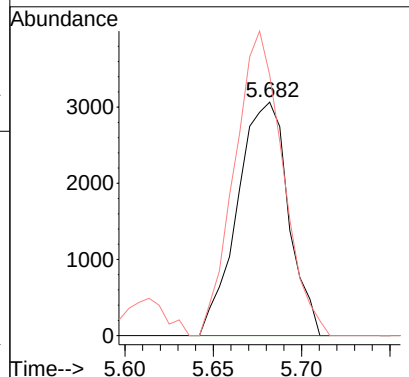
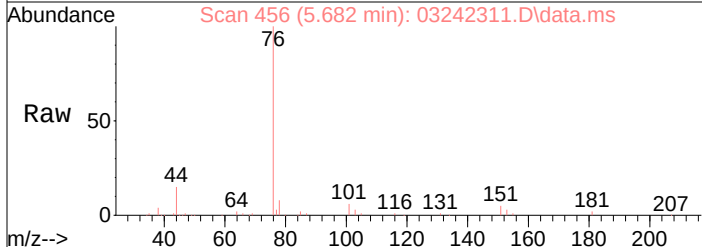
Tgt Ion: 84 Resp: 65810
 Ion Ratio Lower Upper
 84 100
 49 131.7 101.3 151.3





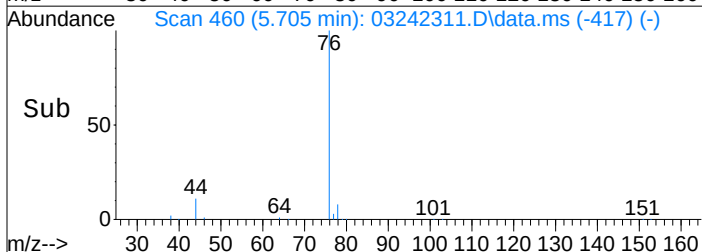
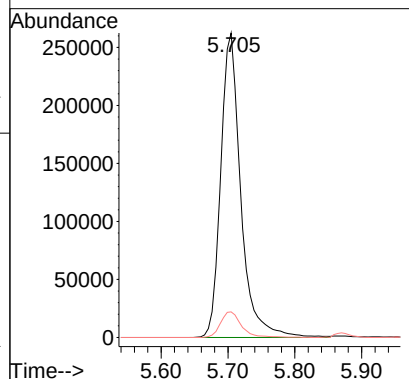
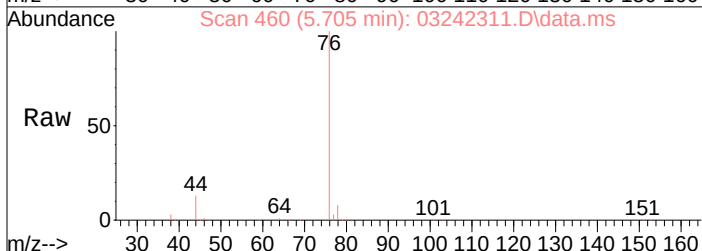
#21
 Trichlorotrifluoroethane
 Concen: 0.30 ng
 RT: 5.68 min Scan# 456
 Delta R.T. 0.000 min
 Lab File: 03242311.D
 Acq: 24 Mar 2023 11:53

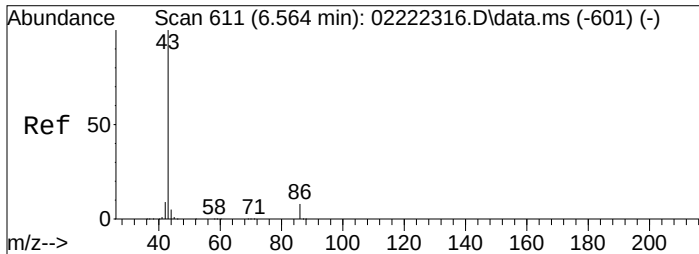
Tgt Ion	Resp	Lower	Upper
151	6169		
101	123.2	96.3	136.3



#22
 Carbon Disulfide
 Concen: 6.58 ng
 RT: 5.70 min Scan# 460
 Delta R.T. -0.006 min
 Lab File: 03242311.D
 Acq: 24 Mar 2023 11:53

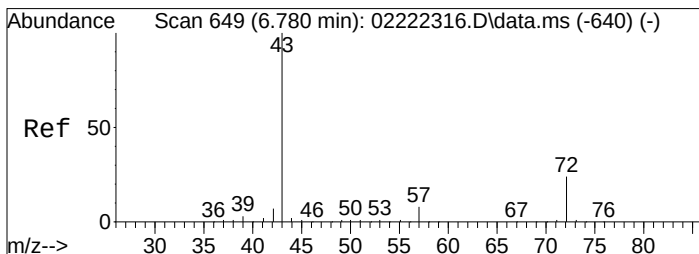
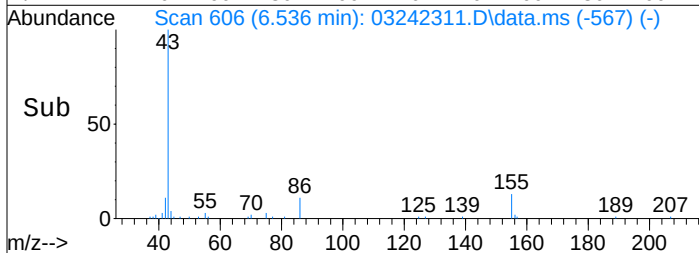
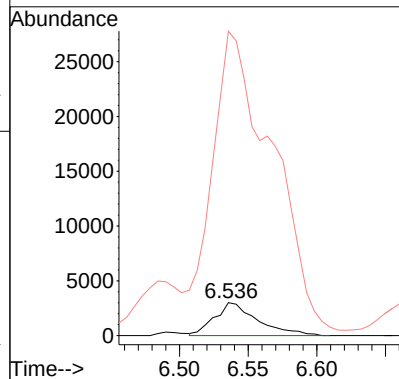
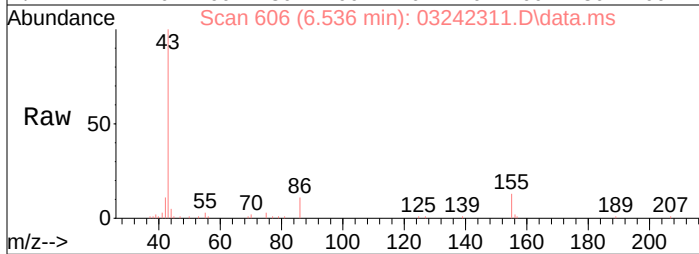
Tgt Ion	Resp	Lower	Upper
76	547686		
78	8.8	0.0	29.3





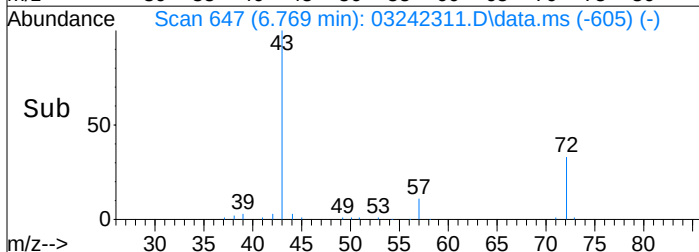
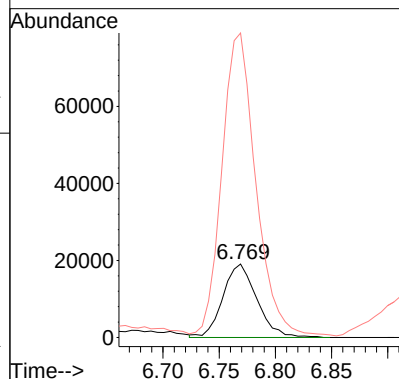
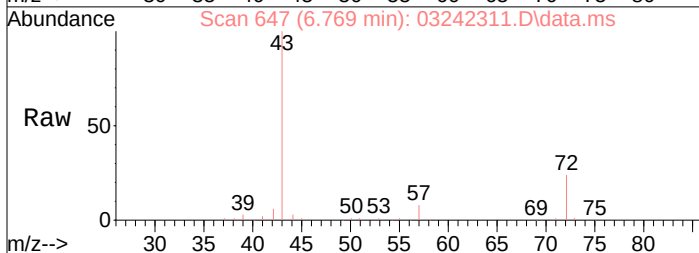
#26
Vinyl Acetate
Concen: 1.69 ng
RT: 6.54 min Scan# 606
Delta R.T. -0.028 min
Lab File: 03242311.D
Acq: 24 Mar 2023 11:53

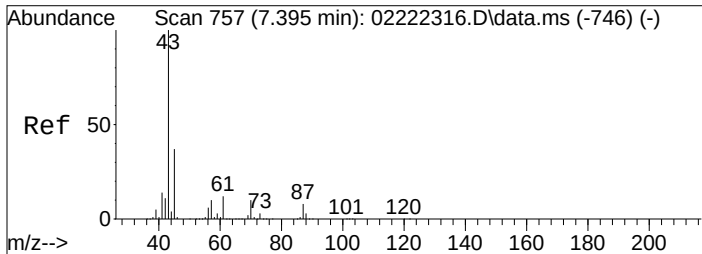
Tgt Ion: 86 Resp: 6559
Ion Ratio Lower Upper
86 100
43 1265.8 1292.1 1332.1#



#27
2-Butanone (MEK)
Concen: 3.15 ng
RT: 6.77 min Scan# 647
Delta R.T. -0.011 min
Lab File: 03242311.D
Acq: 24 Mar 2023 11:53

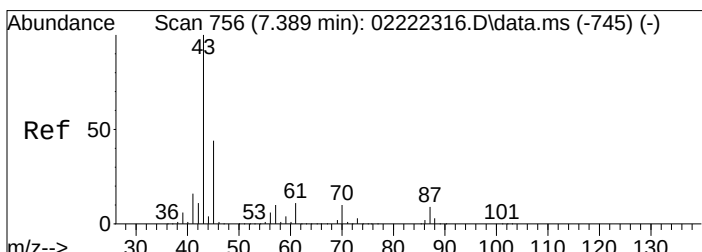
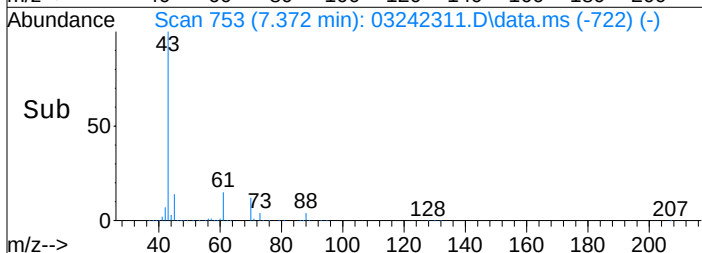
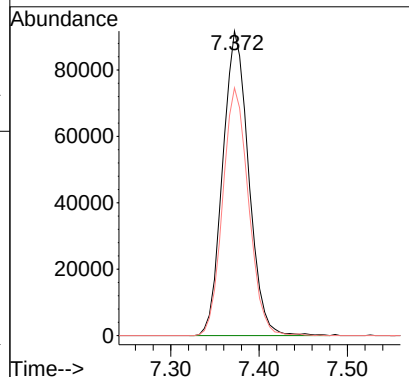
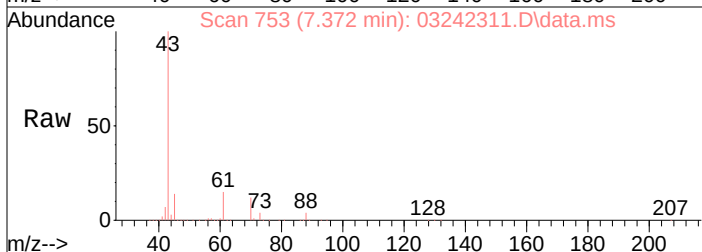
Tgt Ion: 72 Resp: 40124
Ion Ratio Lower Upper
72 100
43 410.1 400.5 440.5





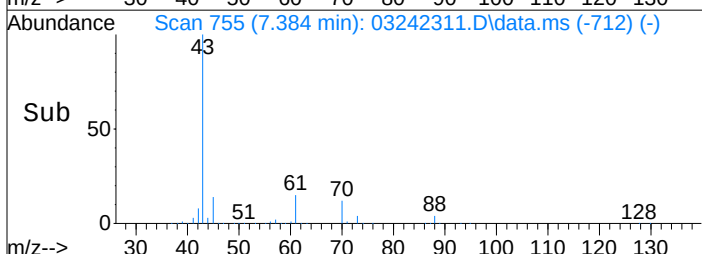
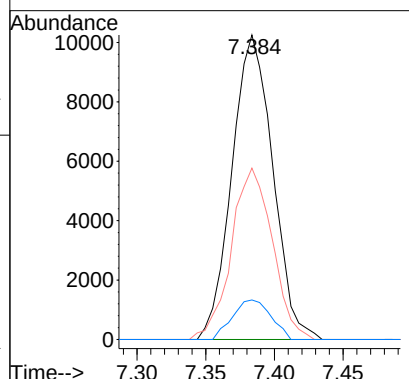
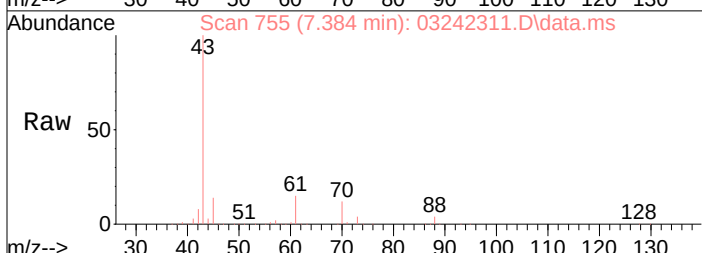
#30
Ethyl Acetate
Concen: 22.38 ng
RT: 7.37 min Scan# 753
Delta R.T. -0.023 min
Lab File: 03242311.D
Acq: 24 Mar 2023 11:53

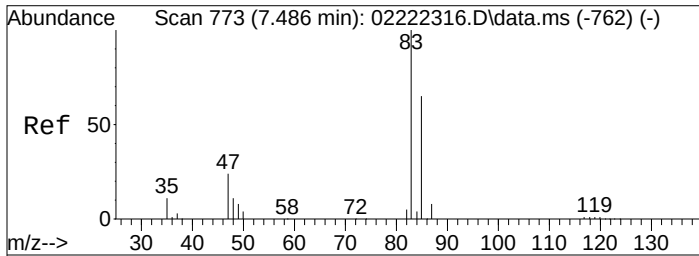
Tgt Ion: 61 Resp: 187266
Ion Ratio Lower Upper
61 100
70 81.2 65.6 105.6



#31
n-Hexane
Concen: 0.66 ng
RT: 7.38 min Scan# 755
Delta R.T. -0.006 min
Lab File: 03242311.D
Acq: 24 Mar 2023 11:53

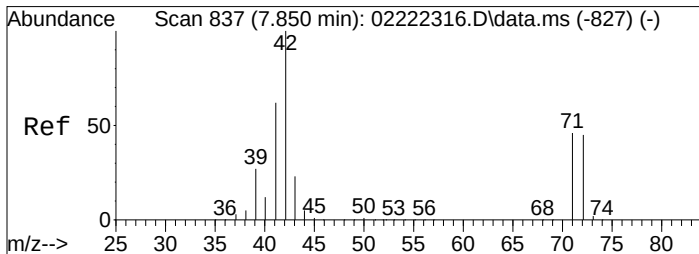
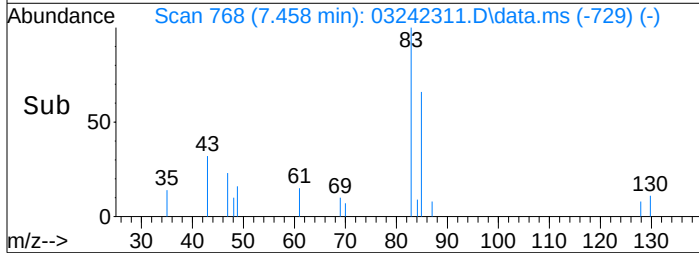
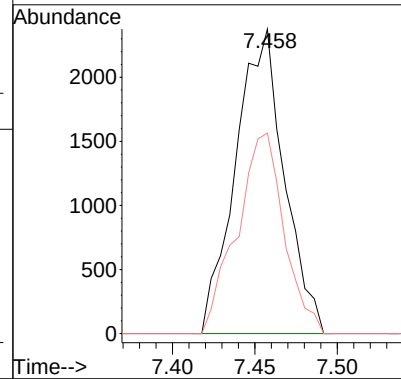
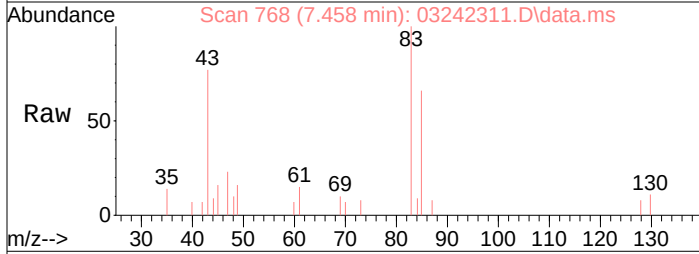
Tgt Ion: 57 Resp: 21222
Ion Ratio Lower Upper
57 100
56 56.5 44.0 66.0
86 12.2 11.5 17.3





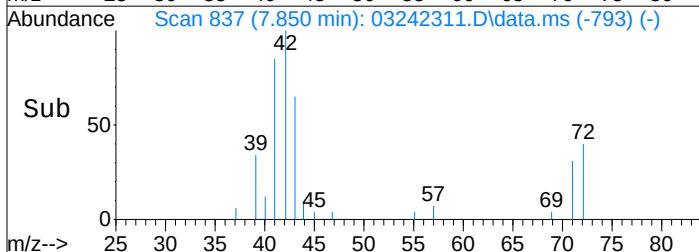
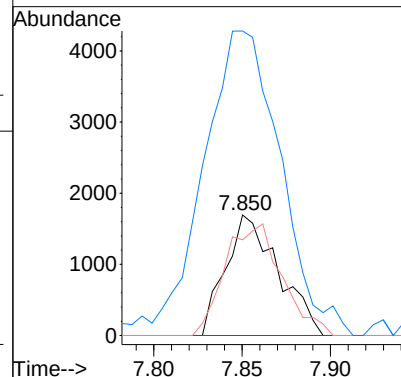
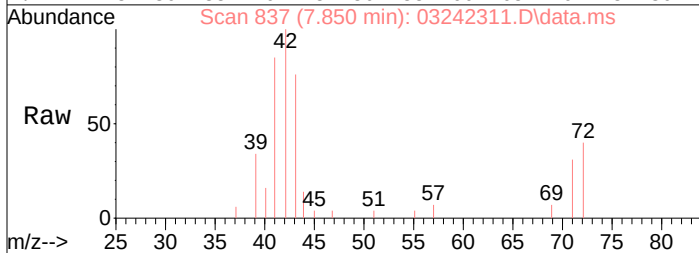
#32
Chloroform
Concen: 0.13 ng
RT: 7.46 min Scan# 768
Delta R.T. -0.028 min
Lab File: 03242311.D
Acq: 24 Mar 2023 11:53

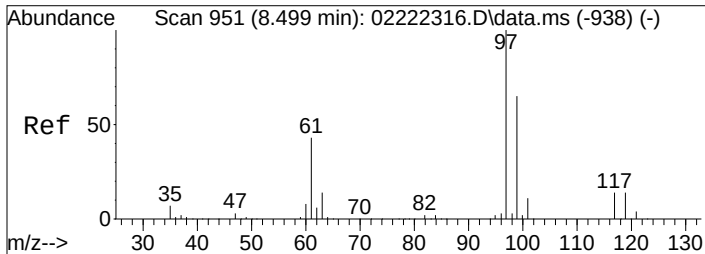
Tgt Ion: 83 Resp: 4874
Ion Ratio Lower Upper
83 100
85 63.9 45.0 85.0



#34
Tetrahydrofuran (THF)
Concen: 0.27 ng
RT: 7.85 min Scan# 837
Delta R.T. 0.000 min
Lab File: 03242311.D
Acq: 24 Mar 2023 11:53

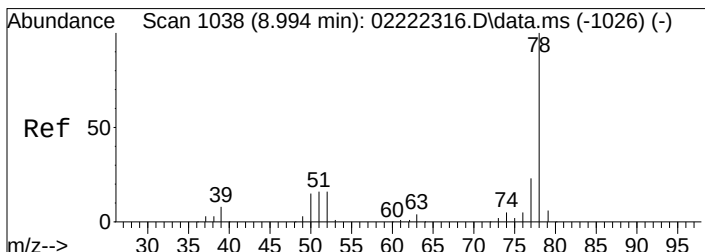
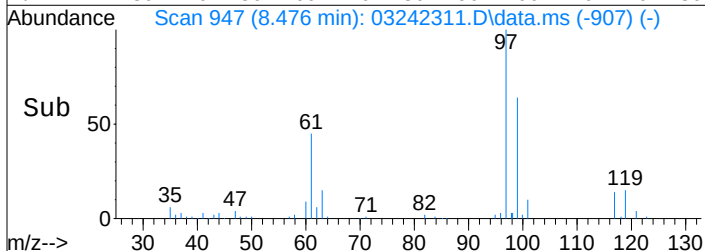
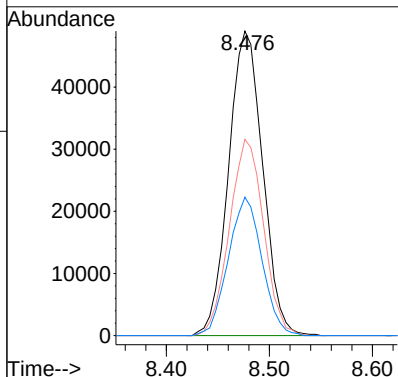
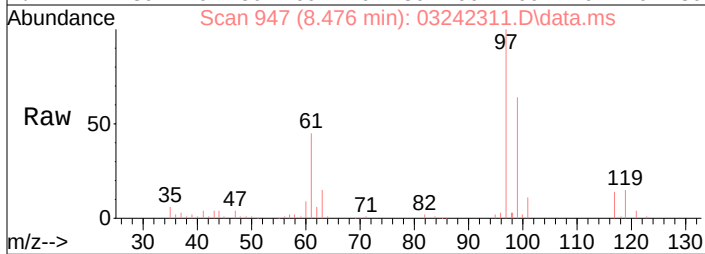
Tgt Ion: 72 Resp: 3525
Ion Ratio Lower Upper
72 100
71 99.9 79.8 119.8
42 369.1 199.0 239.0#





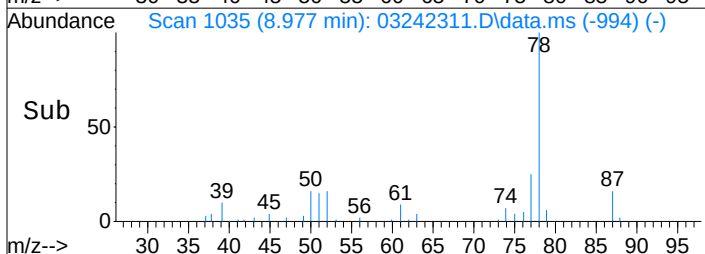
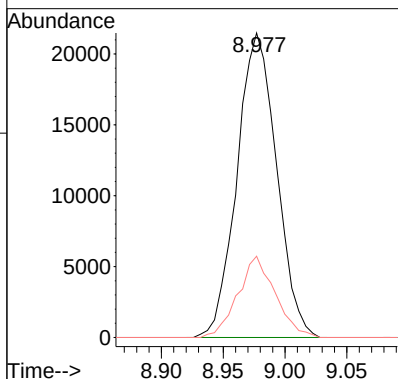
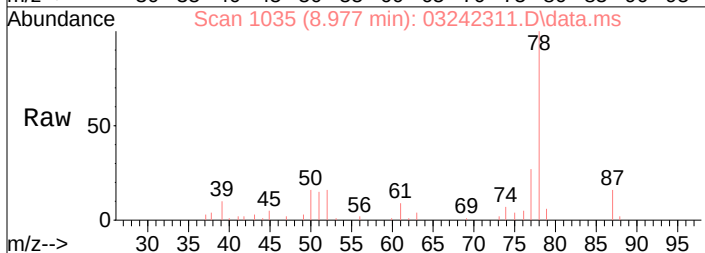
#38
 1,1,1-Trichloroethane
 Concen: 3.34 ng
 RT: 8.48 min Scan# 947
 Delta R.T. -0.023 min
 Lab File: 03242311.D
 Acq: 24 Mar 2023 11:53

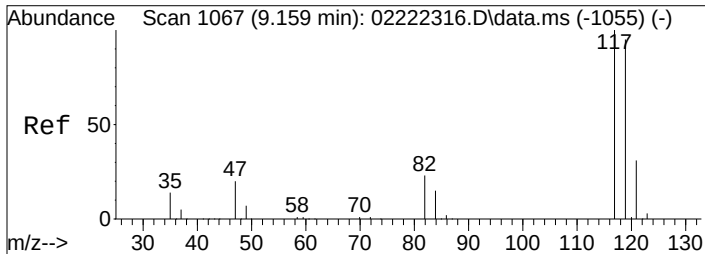
Tgt Ion:	97	Resp:	112808
Ion Ratio		Lower	Upper
97	100		
99	64.6	44.9	84.9
61	44.9	23.5	63.5



#41
 Benzene
 Concen: 0.60 ng
 RT: 8.98 min Scan# 1035
 Delta R.T. -0.017 min
 Lab File: 03242311.D
 Acq: 24 Mar 2023 11:53

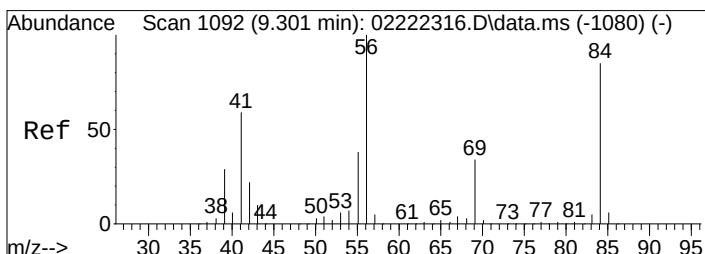
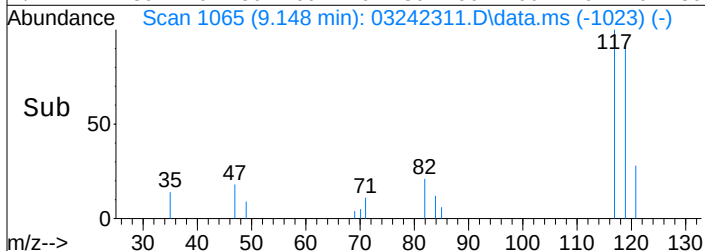
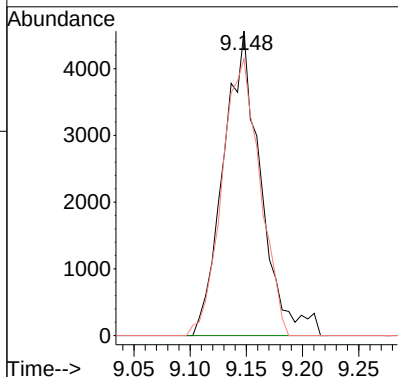
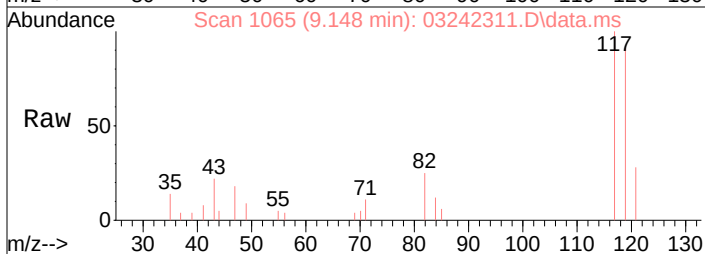
Tgt Ion:	78	Resp:	47946
Ion Ratio		Lower	Upper
78	100		
77	25.2	3.7	43.7





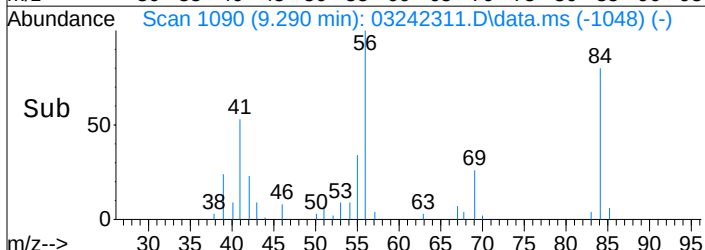
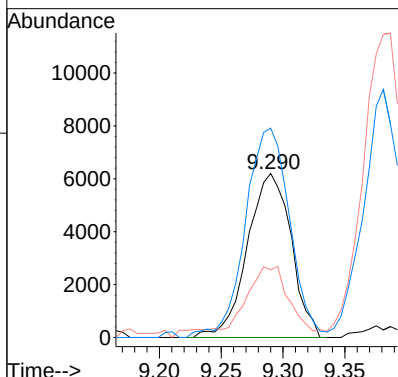
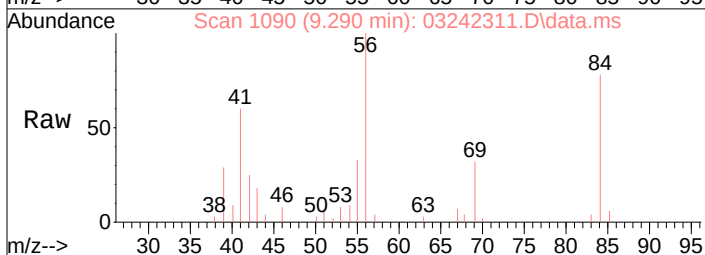
#42
Carbon Tetrachloride
Concen: 0.35 ng
RT: 9.15 min Scan# 1065
Delta R.T. -0.011 min
Lab File: 03242311.D
Acq: 24 Mar 2023 11:53

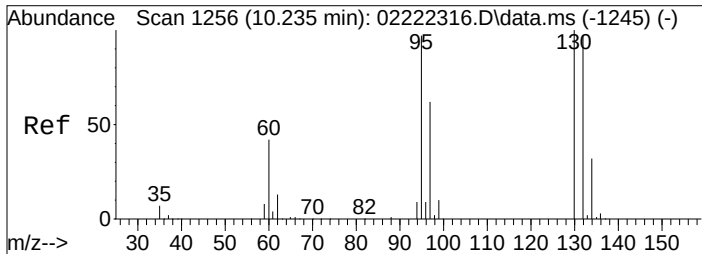
Tgt Ion: 117 Resp: 10514
Ion Ratio Lower Upper
117 100
119 92.6 75.7 115.7



#43
Cyclohexane
Concen: 0.52 ng
RT: 9.29 min Scan# 1090
Delta R.T. -0.011 min
Lab File: 03242311.D
Acq: 24 Mar 2023 11:53

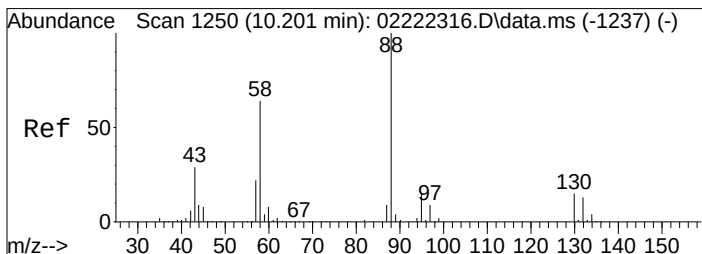
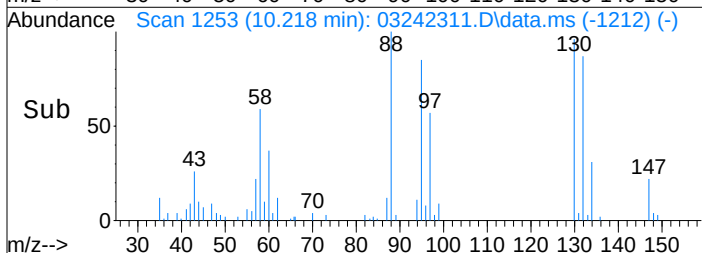
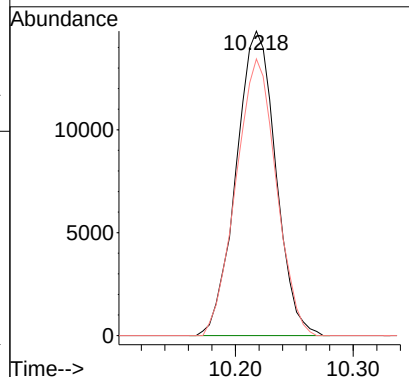
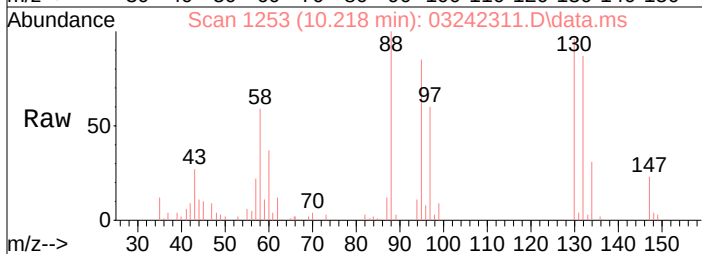
Tgt Ion: 84 Resp: 15282
Ion Ratio Lower Upper
84 100
69 47.8 20.0 60.0
56 129.2 98.5 138.5





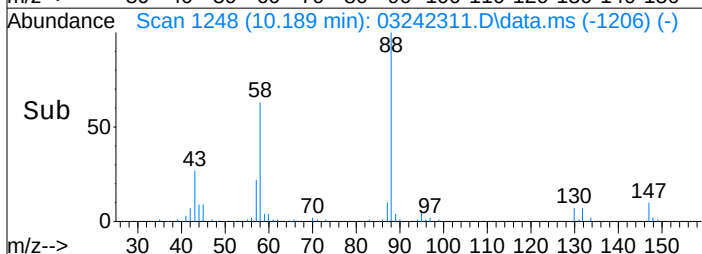
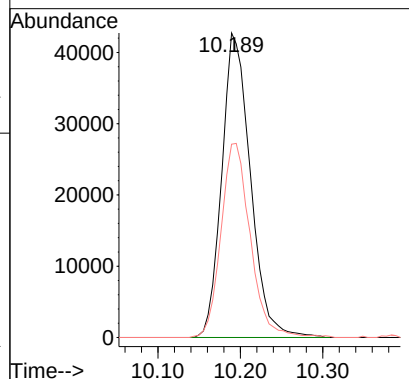
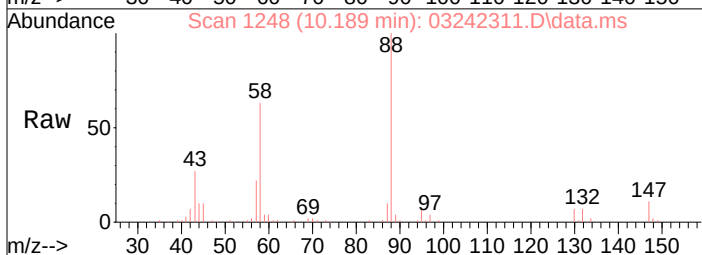
#47
 Trichloroethene
 Concen: 1.49 ng
 RT: 10.22 min Scan# 1253
 Delta R.T. -0.017 min
 Lab File: 03242311.D
 Acq: 24 Mar 2023 11:53

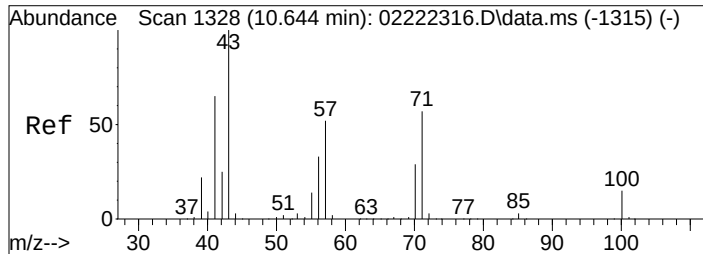
Tgt Ion:	130	Resp:	34666
Ion Ratio	Lower	Upper	
130	100		
132	92.2	76.3	116.3



#48
 1,4-Dioxane
 Concen: 6.45 ng
 RT: 10.19 min Scan# 1248
 Delta R.T. -0.011 min
 Lab File: 03242311.D
 Acq: 24 Mar 2023 11:53

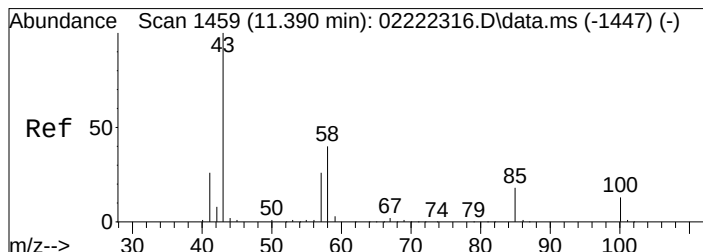
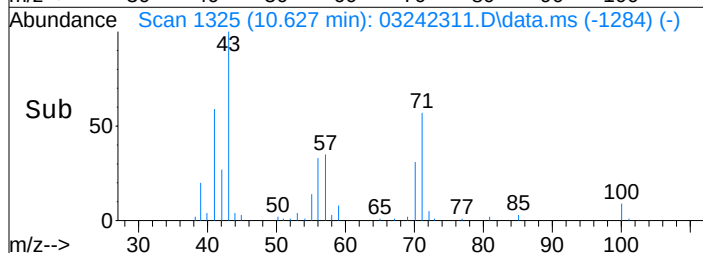
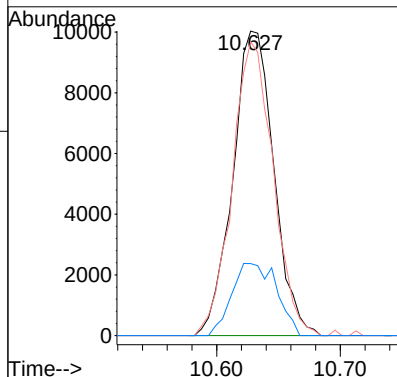
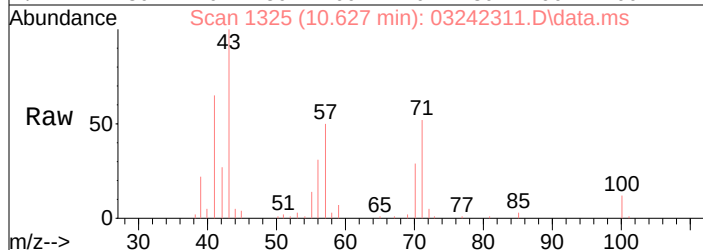
Tgt Ion:	88	Resp:	103271
Ion Ratio	Lower	Upper	
88	100		
58	65.1	42.5	82.5





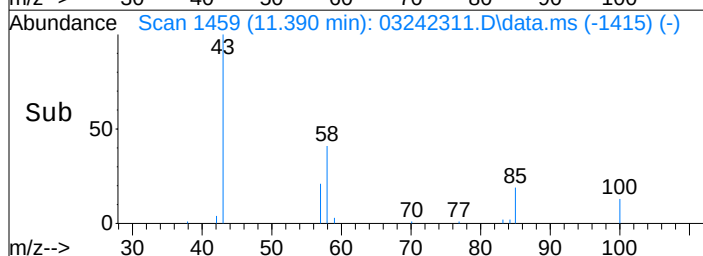
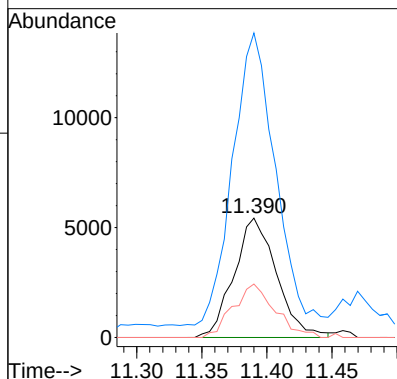
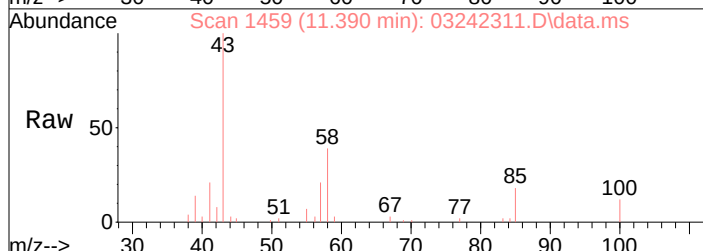
#51
n-Heptane
Concen: 1.21 ng
RT: 10.63 min Scan# 1325
Delta R.T. -0.017 min
Lab File: 03242311.D
Acq: 24 Mar 2023 11:53

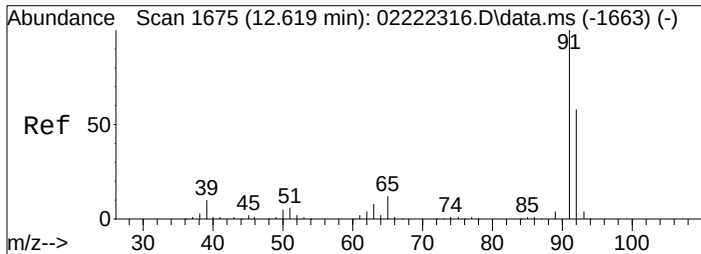
Tgt Ion: 71 Resp: 23233
Ion Ratio Lower Upper
71 100
57 96.1 71.7 111.7
100 25.9 5.8 45.8



#53
4-Methyl-2-pentanone
Concen: 0.72 ng
RT: 11.39 min Scan# 1459
Delta R.T. 0.000 min
Lab File: 03242311.D
Acq: 24 Mar 2023 11:53

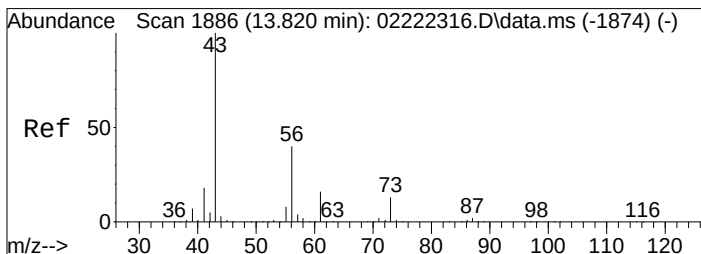
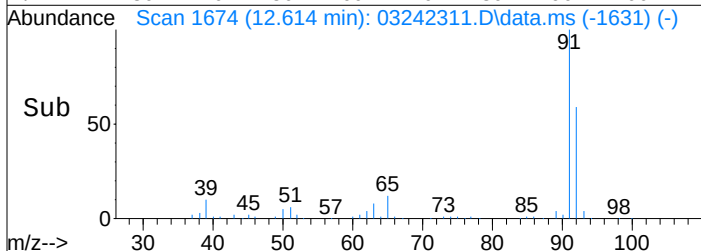
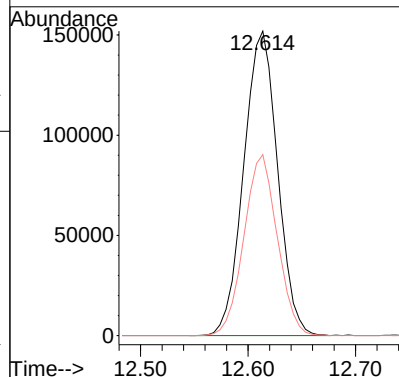
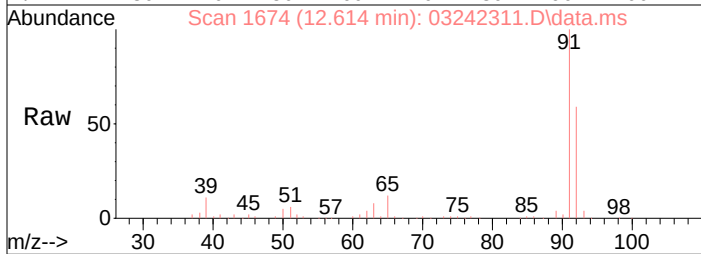
Tgt Ion: 58 Resp: 12384
Ion Ratio Lower Upper
58 100
85 44.0 38.6 58.0
43 259.8 202.2 303.2





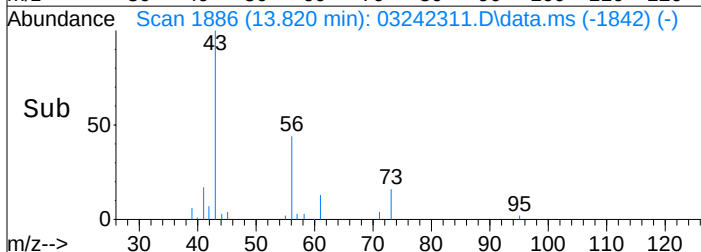
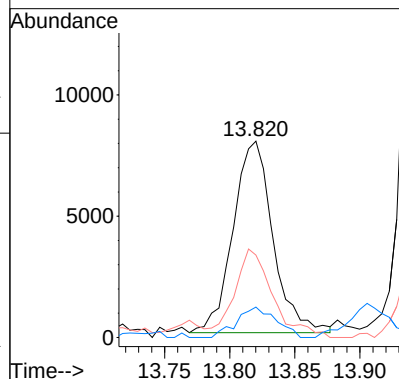
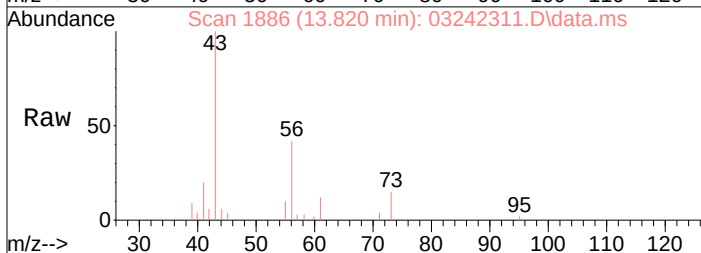
#58
Toluene
Concen: 3.42 ng
RT: 12.61 min Scan# 1674
Delta R.T. -0.006 min
Lab File: 03242311.D
Acq: 24 Mar 2023 11:53

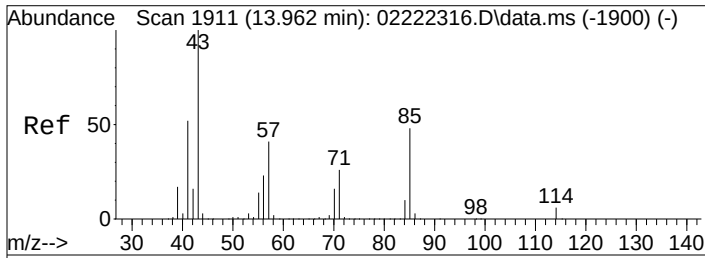
Tgt Ion: 91 Resp: 332205
Ion Ratio Lower Upper
91 100
92 58.5 38.0 78.0



#62
n-Butyl Acetate
Concen: 0.31 ng
RT: 13.82 min Scan# 1886
Delta R.T. 0.000 min
Lab File: 03242311.D
Acq: 24 Mar 2023 11:53

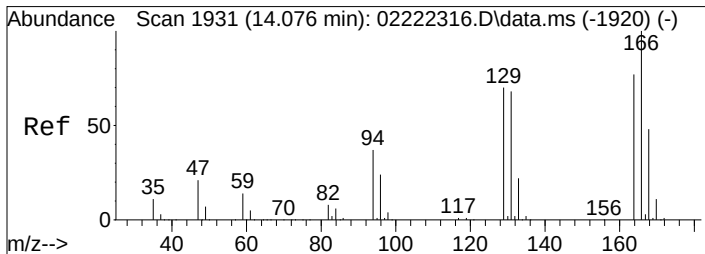
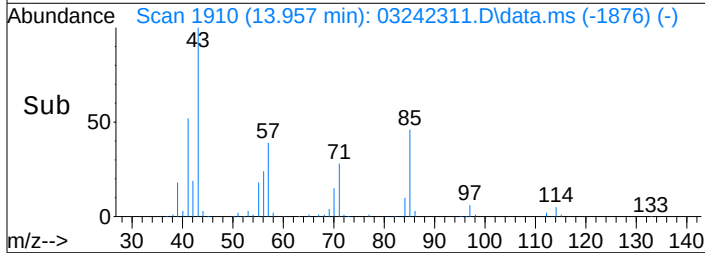
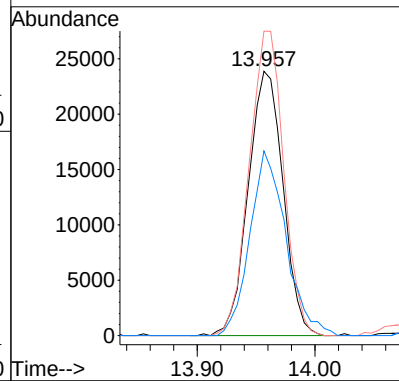
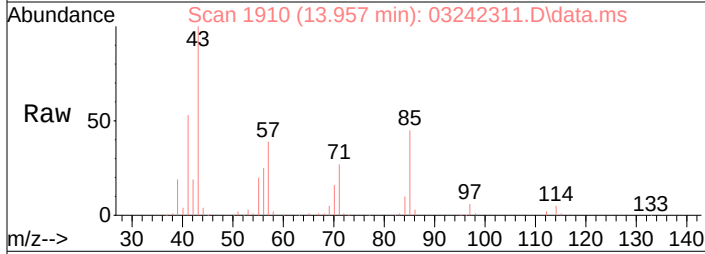
Tgt Ion: 43 Resp: 16872
Ion Ratio Lower Upper
43 100
56 44.3 20.0 60.0
73 15.5 0.0 33.2





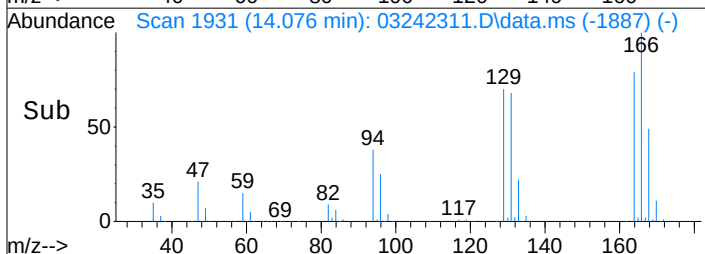
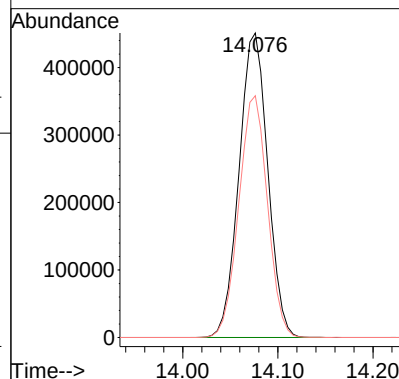
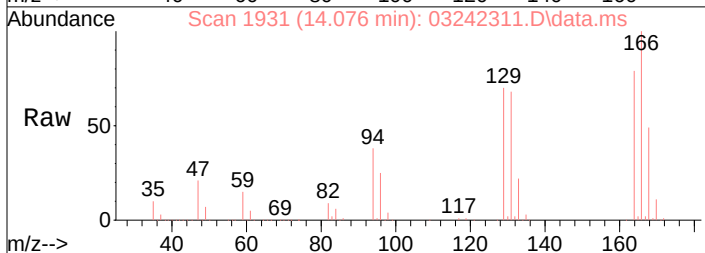
#63
n-Octane
Concen: 2.57 ng
RT: 13.96 min Scan# 1910
Delta R.T. -0.006 min
Lab File: 03242311.D
Acq: 24 Mar 2023 11:53

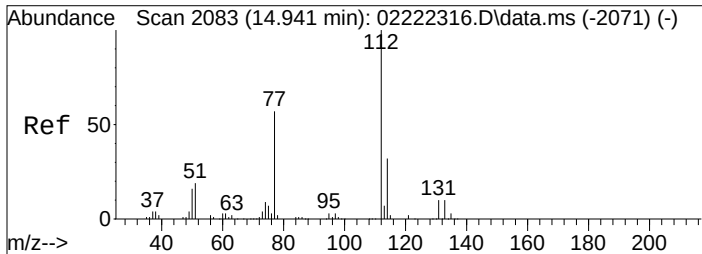
Tgt Ion: 57 Resp: 49122
Ion Ratio Lower Upper
57 100
85 114.0 94.1 141.1
71 72.2 52.6 79.0



#64
Tetrachloroethene
Concen: 32.03 ng
RT: 14.08 min Scan# 1931
Delta R.T. 0.000 min
Lab File: 03242311.D
Acq: 24 Mar 2023 11:53

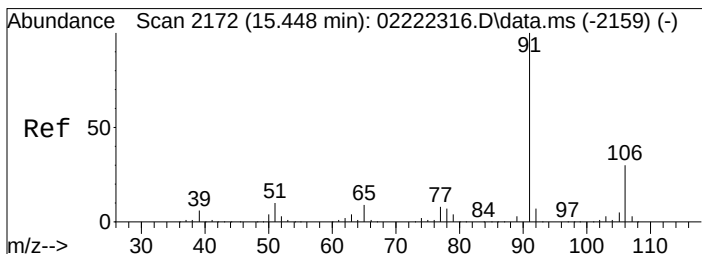
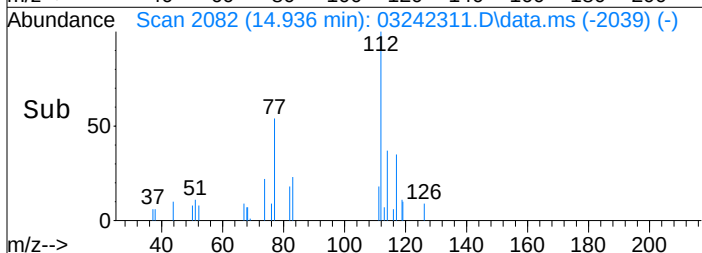
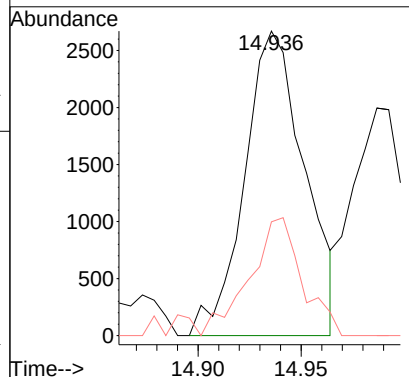
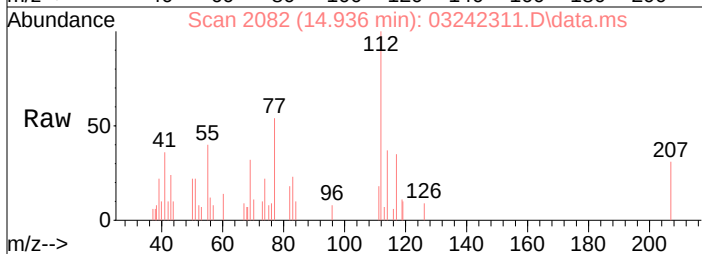
Tgt Ion: 166 Resp: 946238
Ion Ratio Lower Upper
166 100
164 79.1 57.3 97.3





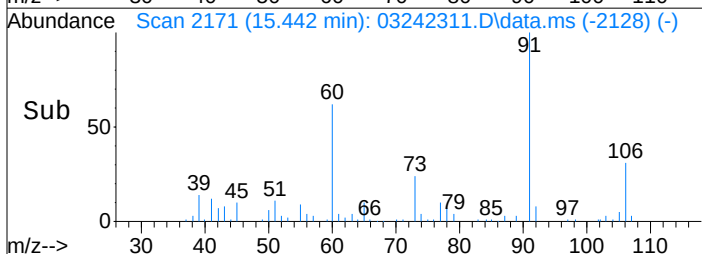
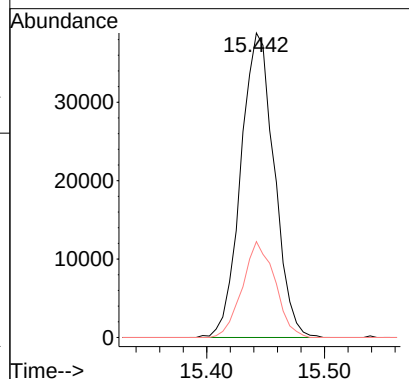
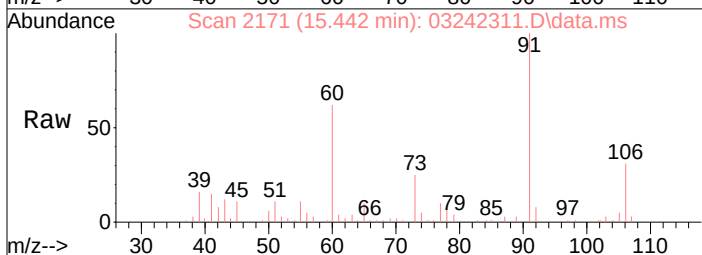
#65
Chlorobenzene
Concen: 0.08 ng
RT: 14.94 min Scan# 2082
Delta R.T. -0.006 min
Lab File: 03242311.D
Acq: 24 Mar 2023 11:53

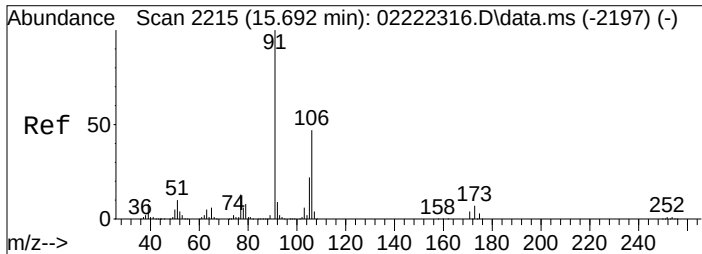
Tgt Ion: 112 Resp: 5414
Ion Ratio Lower Upper
112 100
114 33.8 12.1 52.1



#66
Ethylbenzene
Concen: 0.66 ng
RT: 15.44 min Scan# 2171
Delta R.T. -0.006 min
Lab File: 03242311.D
Acq: 24 Mar 2023 11:53

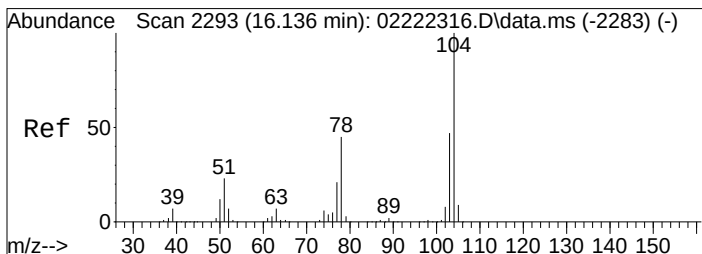
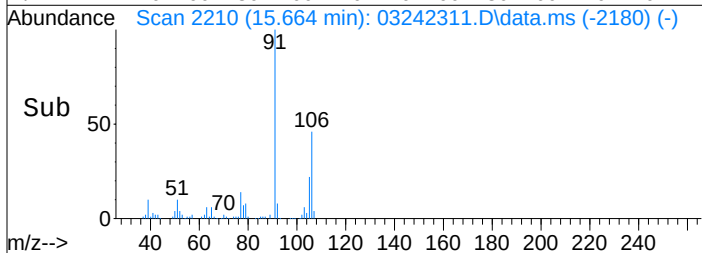
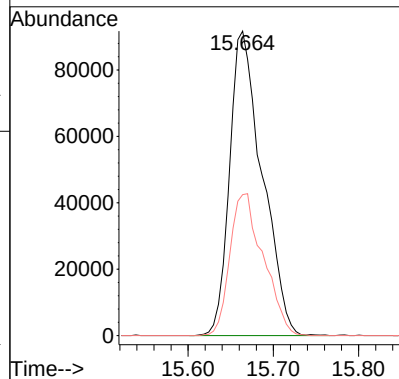
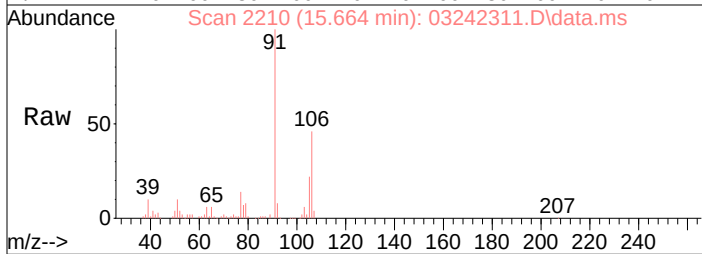
Tgt Ion: 91 Resp: 76529
Ion Ratio Lower Upper
91 100
106 30.7 10.4 50.4





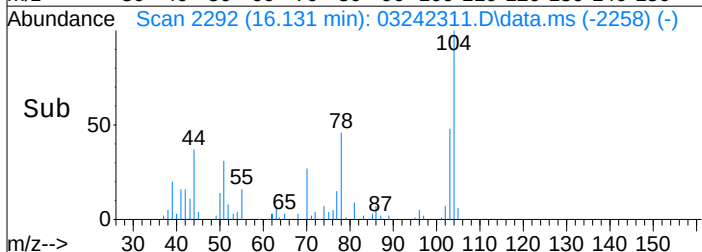
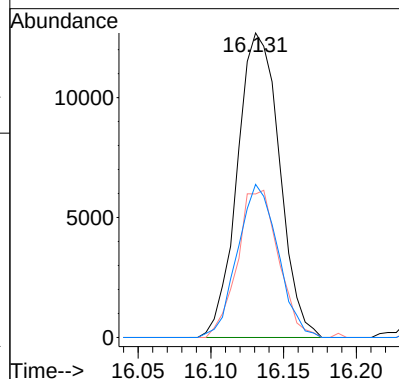
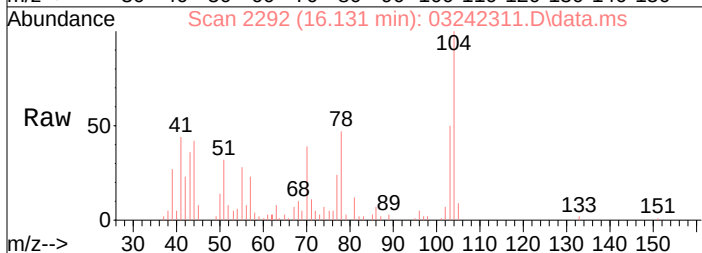
#67
m- & p-Xylenes
Concen: 2.61 ng
RT: 15.66 min Scan# 2210
Delta R.T. -0.028 min
Lab File: 03242311.D
Acq: 24 Mar 2023 11:53

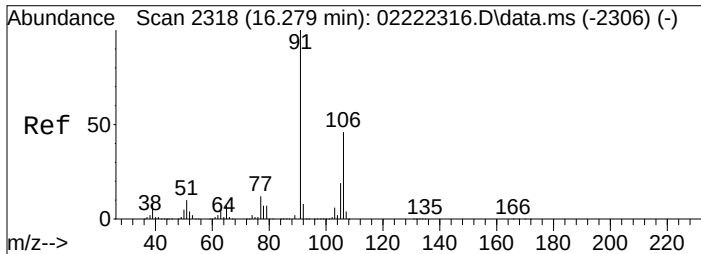
Tgt Ion: 91 Resp: 243417
Ion Ratio Lower Upper
91 100
106 47.9 26.2 66.2



#69
Styrene
Concen: 0.40 ng
RT: 16.13 min Scan# 2292
Delta R.T. -0.006 min
Lab File: 03242311.D
Acq: 24 Mar 2023 11:53

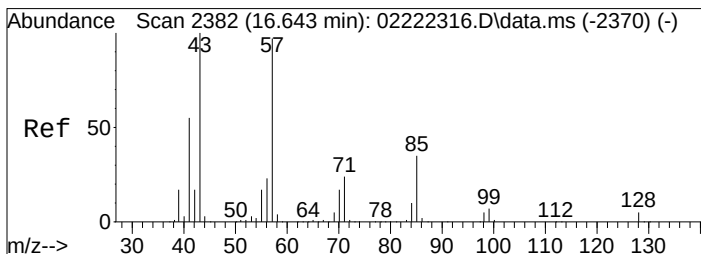
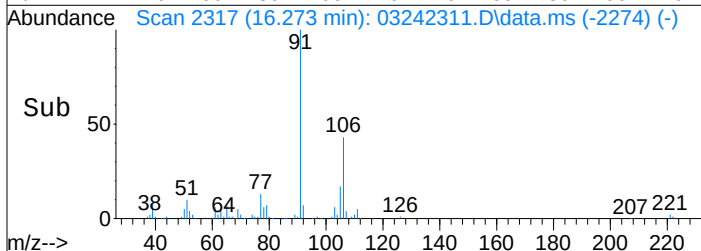
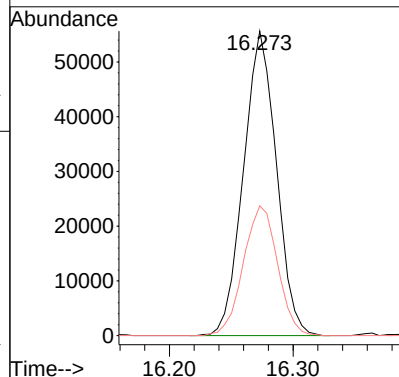
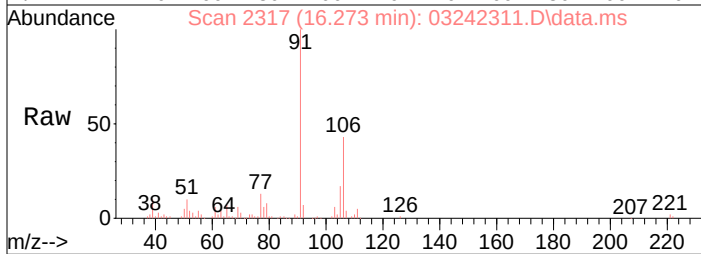
Tgt Ion: 104 Resp: 25609
Ion Ratio Lower Upper
104 100
78 47.1 24.7 64.7
103 48.1 27.8 67.8





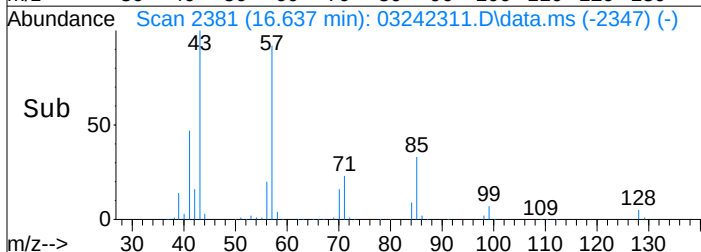
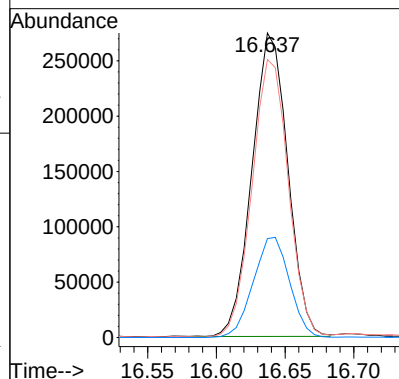
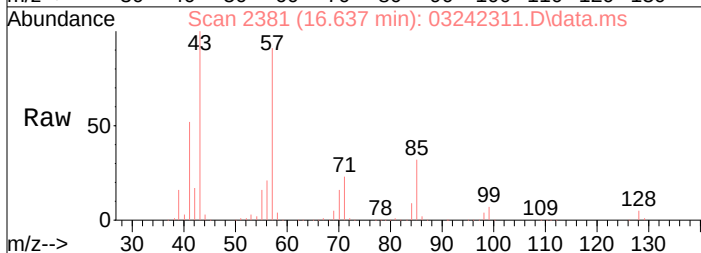
#70
o-Xylene
Concen: 1.15 ng
RT: 16.27 min Scan# 2317
Delta R.T. -0.006 min
Lab File: 03242311.D
Acq: 24 Mar 2023 11:53

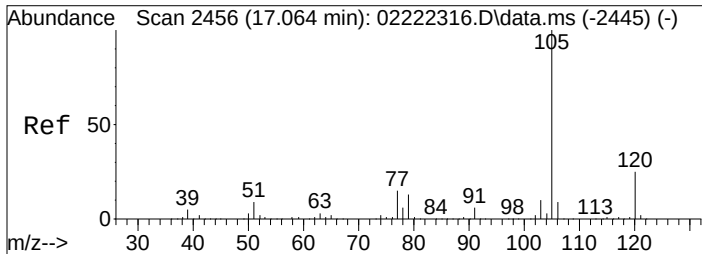
Tgt Ion: 91 Resp: 102930
Ion Ratio Lower Upper
91 100
106 44.4 25.4 65.4



#71
n-Nonane
Concen: 11.54 ng
RT: 16.64 min Scan# 2381
Delta R.T. -0.006 min
Lab File: 03242311.D
Acq: 24 Mar 2023 11:53

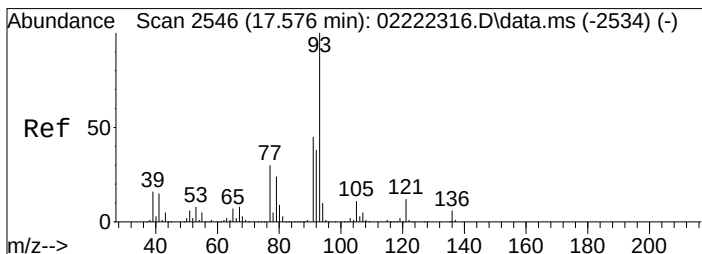
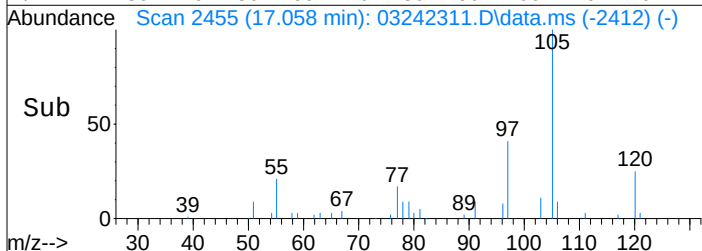
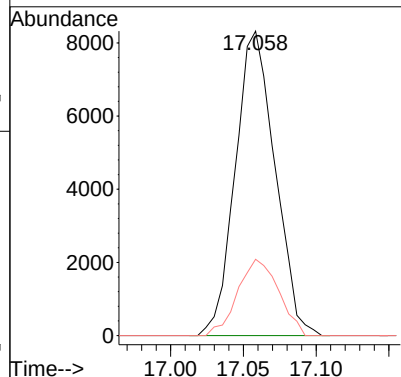
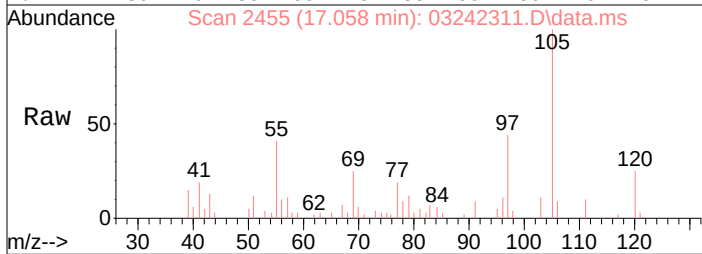
Tgt Ion: 43 Resp: 497877
Ion Ratio Lower Upper
43 100
57 92.6 74.2 114.2
85 33.4 14.2 54.2





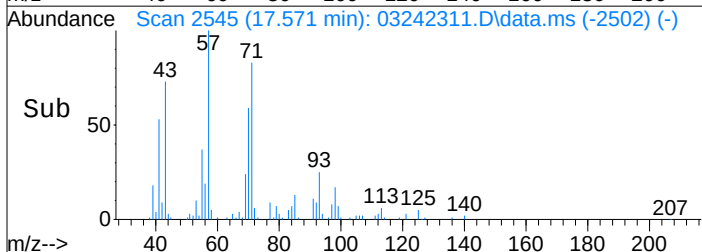
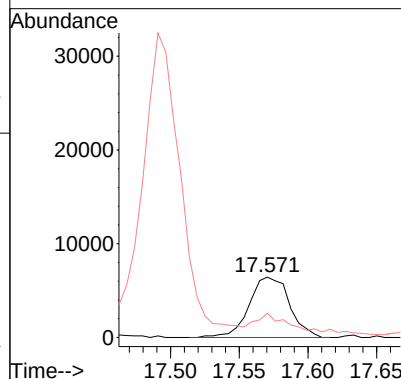
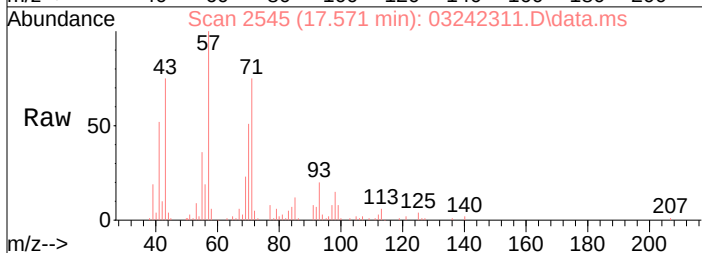
#74
Cumene
Concen: 0.15 ng
RT: 17.06 min Scan# 2455
Delta R.T. -0.006 min
Lab File: 03242311.D
Acq: 24 Mar 2023 11:53

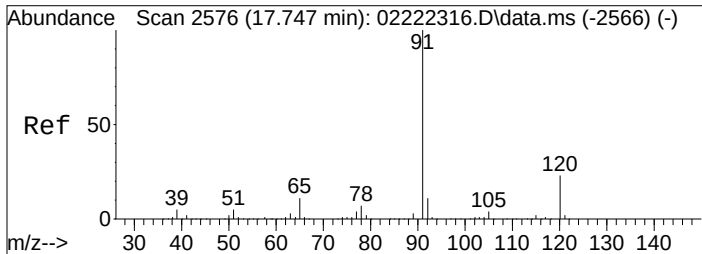
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	15797		
120	25.9	5.2	45.2	



#75
alpha-Pinene
Concen: 0.26 ng
RT: 17.57 min Scan# 2545
Delta R.T. -0.006 min
Lab File: 03242311.D
Acq: 24 Mar 2023 11:53

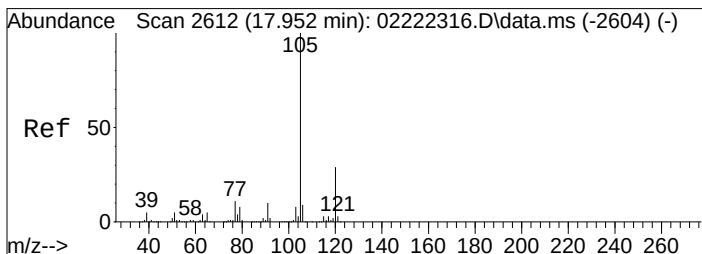
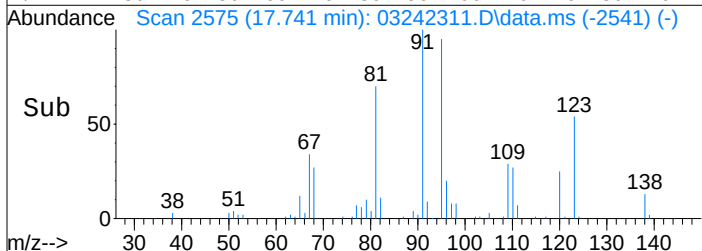
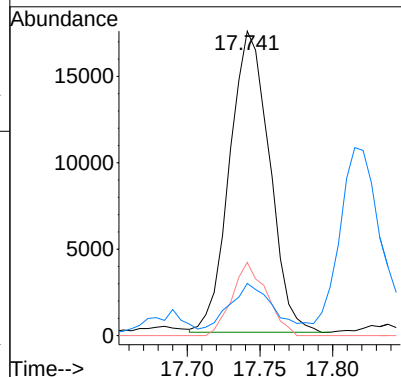
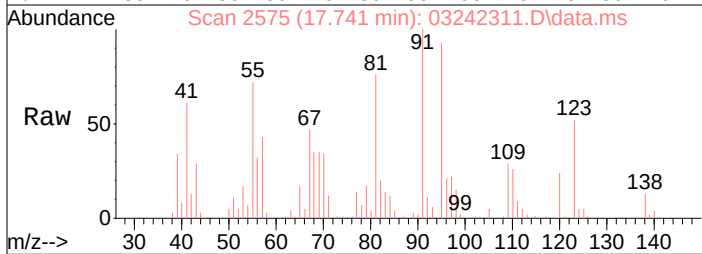
Tgt Ion	Ratio	Resp	Lower	Upper
93	100	13174		
77	33.5	11.1	51.1	





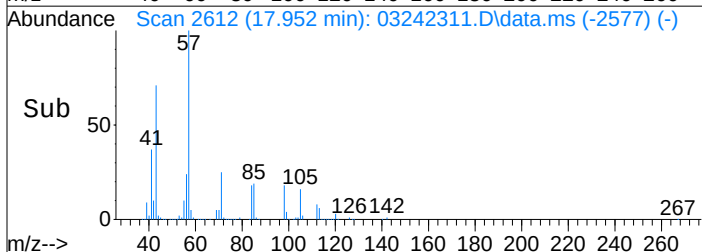
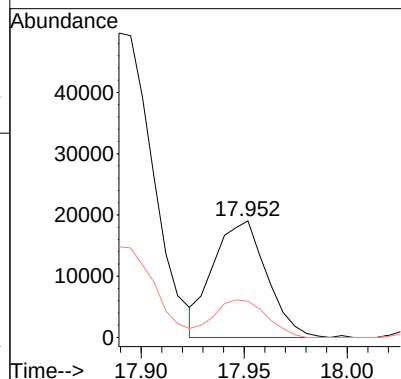
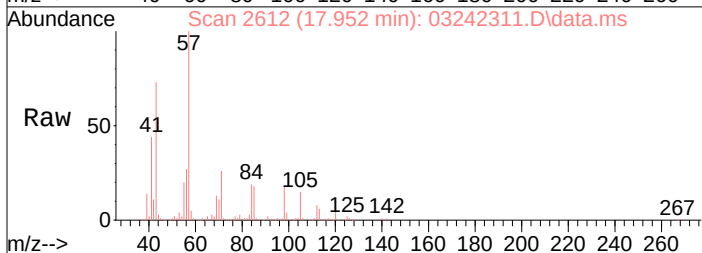
#76
 n-Propylbenzene
 Concen: 0.26 ng
 RT: 17.74 min Scan# 2575
 Delta R.T. -0.006 min
 Lab File: 03242311.D
 Acq: 24 Mar 2023 11:53

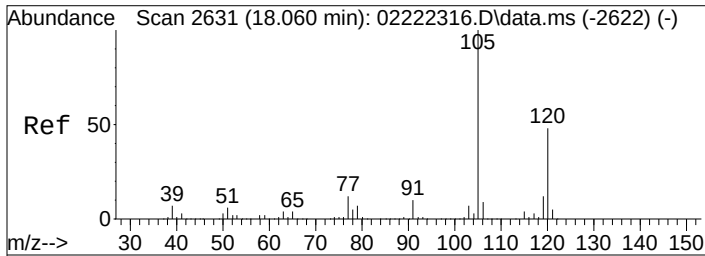
Tgt Ion:	91	Resp:	33187
Ion Ratio	Lower	Upper	
91	100		
120	20.9	2.7	42.7
65	15.8	0.0	30.7



#78
 4-Ethyltoluene
 Concen: 0.33 ng
 RT: 17.95 min Scan# 2612
 Delta R.T. 0.000 min
 Lab File: 03242311.D
 Acq: 24 Mar 2023 11:53

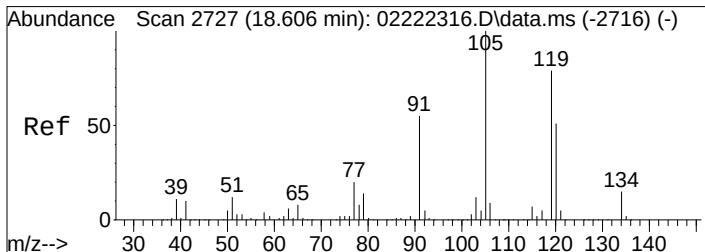
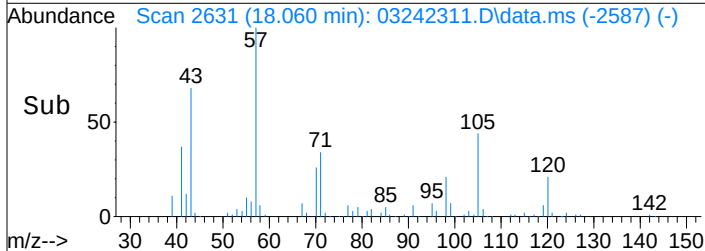
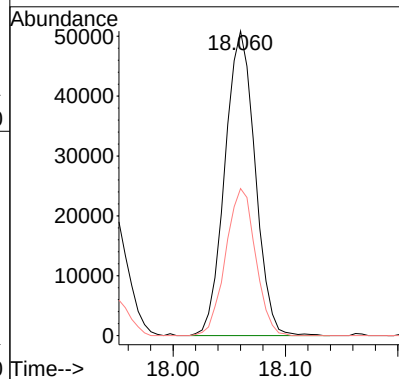
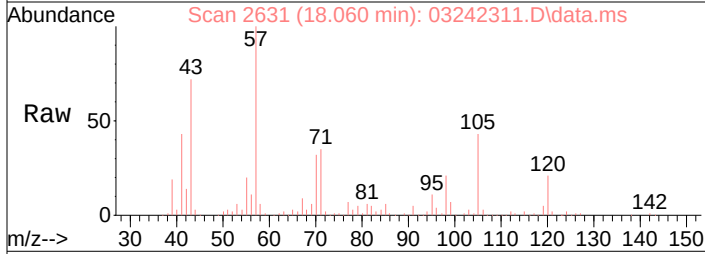
Tgt Ion:	105	Resp:	34374
Ion Ratio	Lower	Upper	
105	100		
120	32.0	9.1	49.1





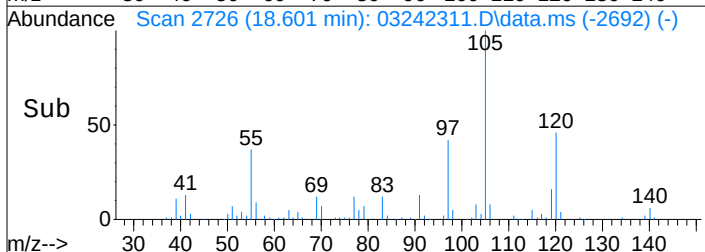
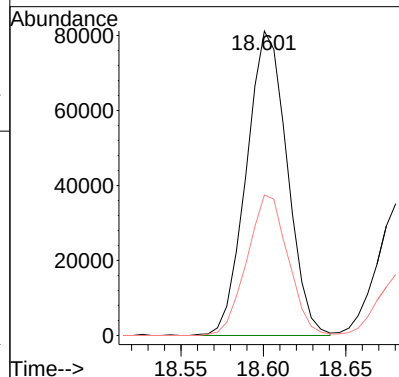
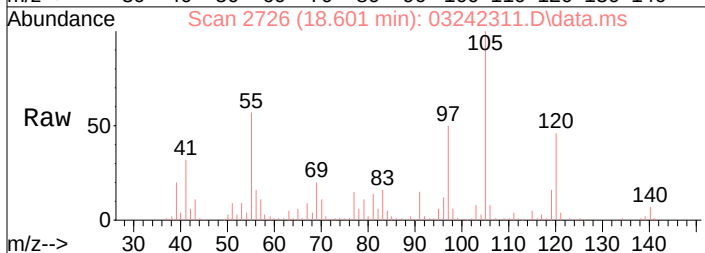
#79
 1,3,5-Trimethylbenzene
 Concen: 1.03 ng
 RT: 18.06 min Scan# 2631
 Delta R.T. 0.000 min
 Lab File: 03242311.D
 Acq: 24 Mar 2023 11:53

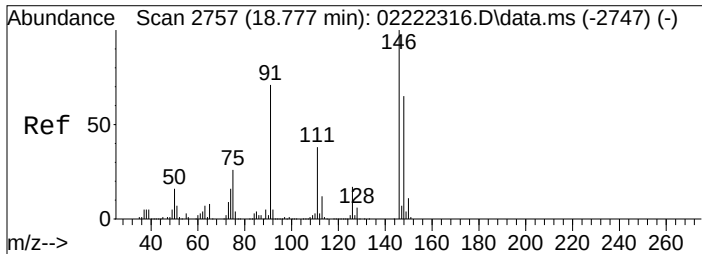
Tgt Ion:105 Resp: 95058
 Ion Ratio Lower Upper
 105 100
 120 47.8 28.4 68.4



#82
 1,2,4-Trimethylbenzene
 Concen: 1.54 ng
 RT: 18.60 min Scan# 2726
 Delta R.T. -0.006 min
 Lab File: 03242311.D
 Acq: 24 Mar 2023 11:53

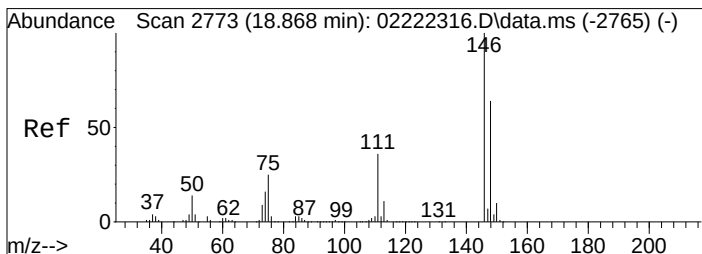
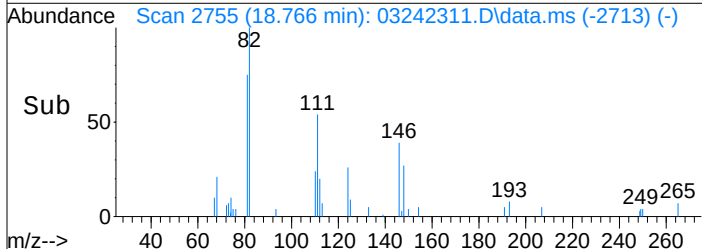
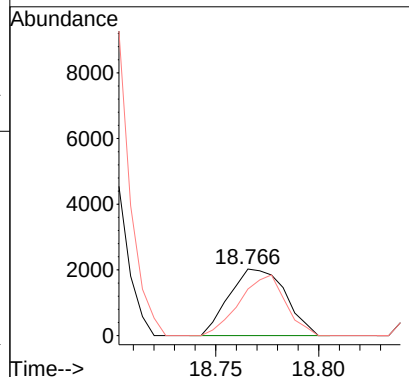
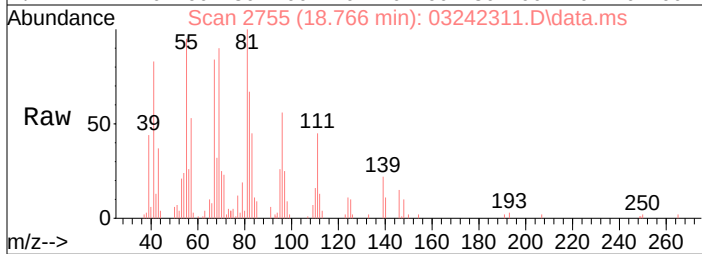
Tgt Ion:105 Resp: 139695
 Ion Ratio Lower Upper
 105 100
 120 46.5 32.8 72.8





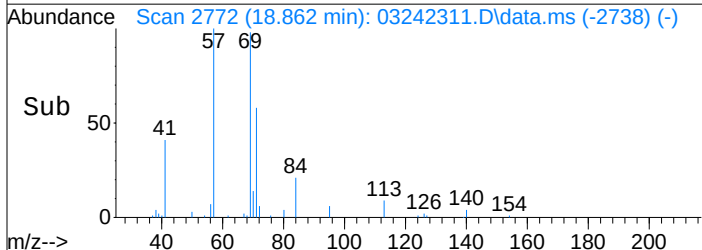
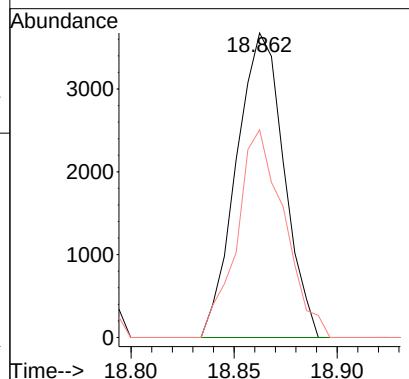
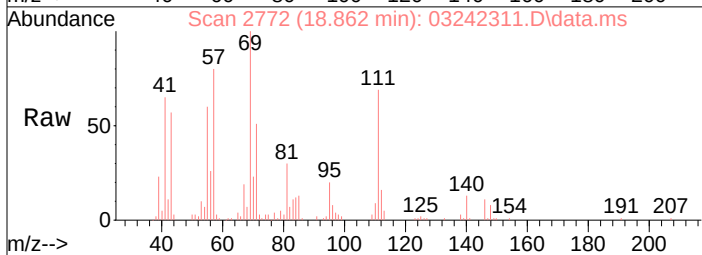
#85
 1,3-Dichlorobenzene
 Concen: 0.07 ng
 RT: 18.77 min Scan# 2755
 Delta R.T. -0.011 min
 Lab File: 03242311.D
 Acq: 24 Mar 2023 11:53

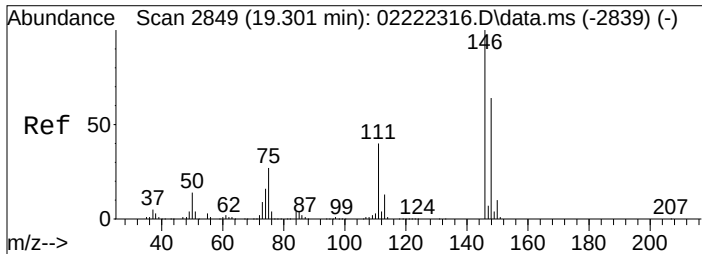
Tgt Ion	Ratio	Lower	Upper
146	100		
148	73.9	44.4	84.4



#86
 1,4-Dichlorobenzene
 Concen: 0.10 ng
 RT: 18.86 min Scan# 2772
 Delta R.T. -0.006 min
 Lab File: 03242311.D
 Acq: 24 Mar 2023 11:53

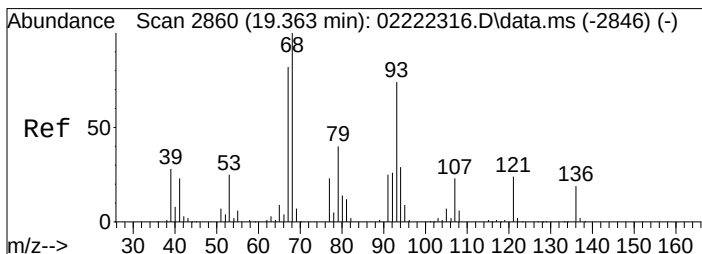
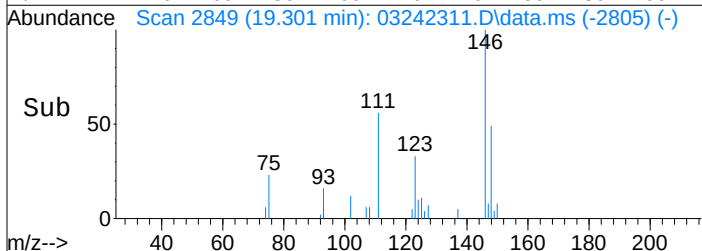
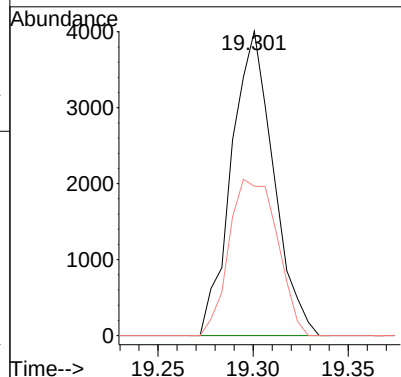
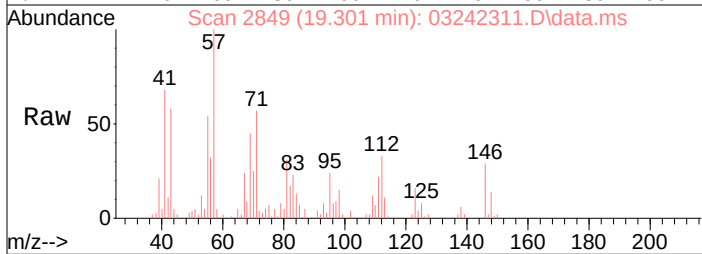
Tgt Ion	Ratio	Lower	Upper
146	100		
148	68.1	44.7	84.7





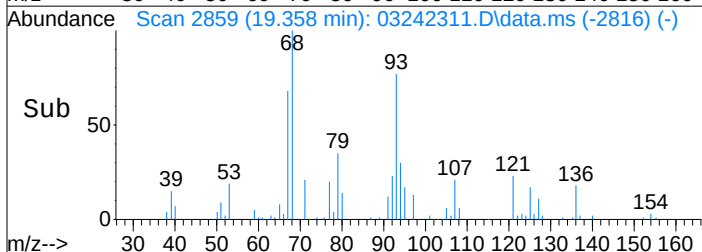
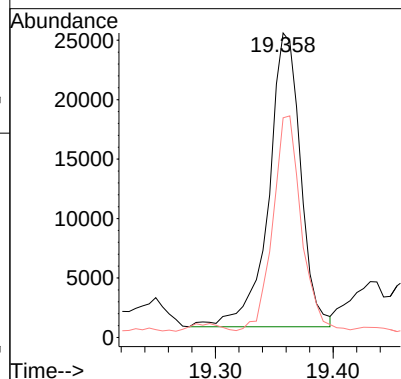
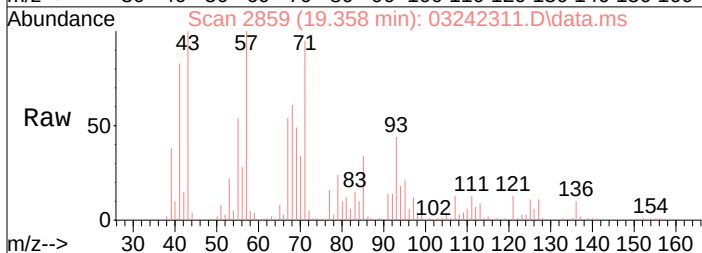
#90
 1,2-Dichlorobenzene
 Concen: 0.11 ng
 RT: 19.30 min Scan# 2849
 Delta R.T. 0.000 min
 Lab File: 03242311.D
 Acq: 24 Mar 2023 11:53

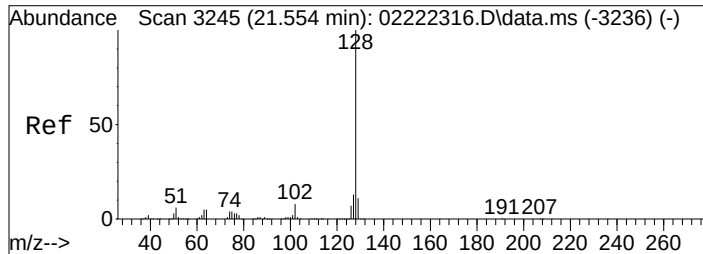
Tgt Ion: 146 Resp: 6137
 Ion Ratio Lower Upper
 146 100
 148 59.0 44.4 84.4



#91
 d-Limonene
 Concen: 1.52 ng
 RT: 19.36 min Scan# 2859
 Delta R.T. -0.006 min
 Lab File: 03242311.D
 Acq: 24 Mar 2023 11:53

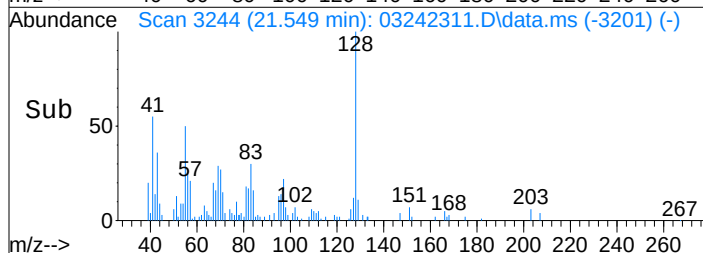
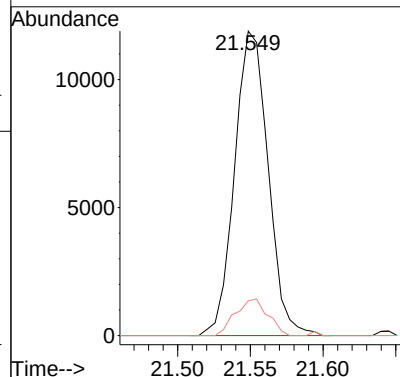
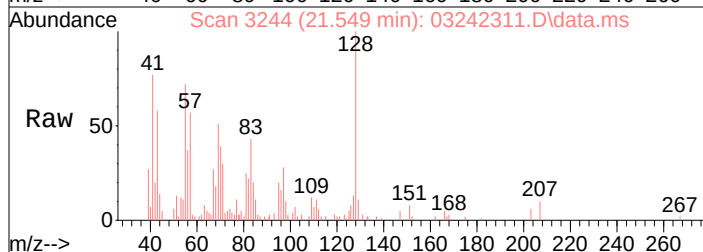
Tgt Ion: 68 Resp: 46618
 Ion Ratio Lower Upper
 68 100
 93 67.9 54.8 94.8





#95
 Naphthalene
 Concen: 0.19 ng
 RT: 21.55 min Scan# 3244
 Delta R.T. -0.006 min
 Lab File: 03242311.D
 Acq: 24 Mar 2023 11:53

Tgt Ion:128 Resp: 19075
 Ion Ratio Lower Upper
 128 100
 129 11.6 0.0 30.9



Data File : I:\MS13\DATA\2023_03\24\03242311.D
 Acq On : 24 Mar 2023 11:53
 Sample : P2301250-009 (1000mL)
 Misc : S35-01202301

Vial: 2
 Operator: TZ
 Inst : MS13

Quant Time: Mar 28 09:42:11 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.33	130	236495	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	9.38	114	1021652	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	14.88	54	198367	12.500	ng	0.00

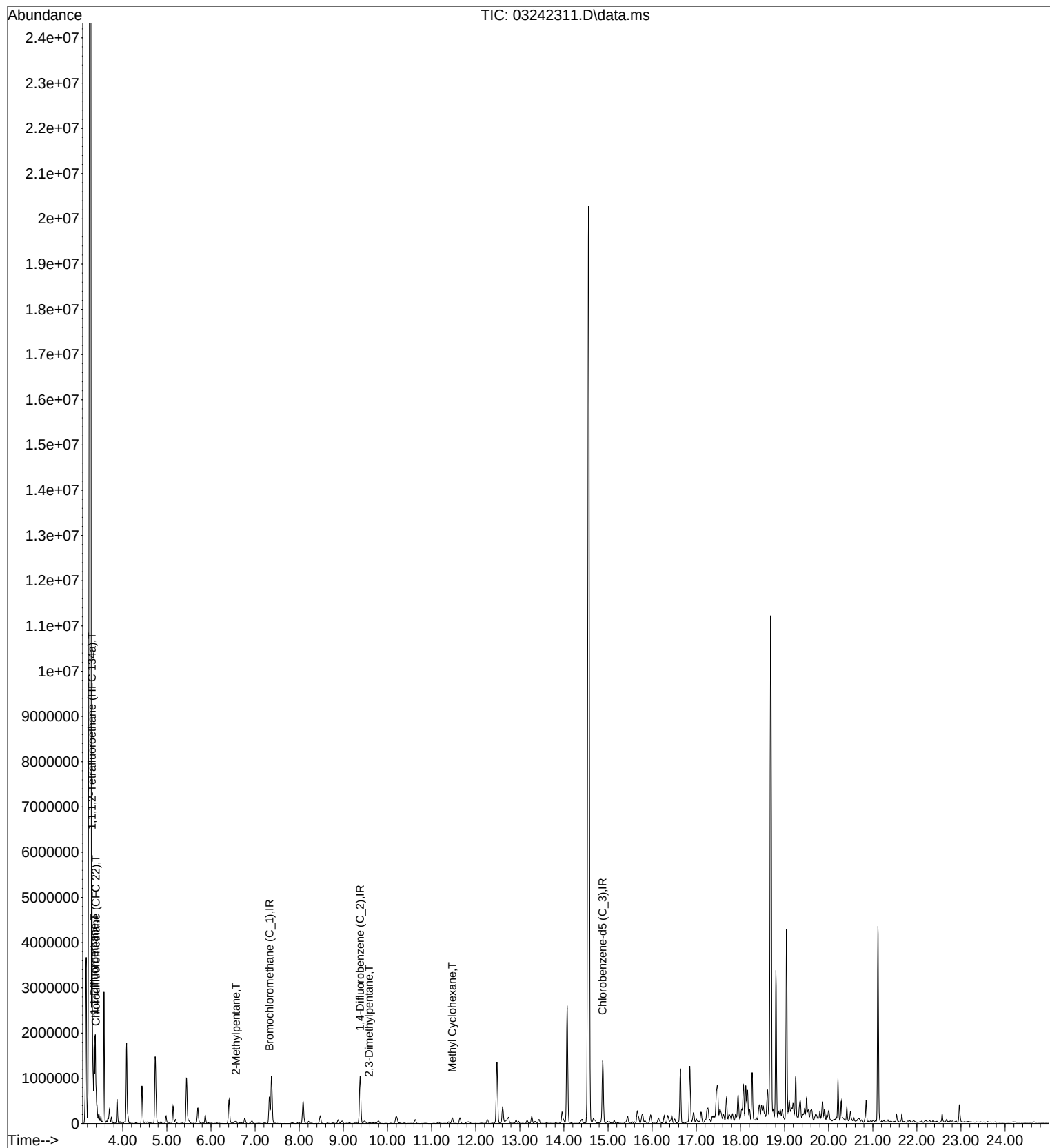
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	0.00	85	0	N.D.	d	
3) 1,1,1,2-Tetrafluoroeth...	3.30	83	14751	0.773	ng	# 1
4) 1,1-Difluoroethane	3.36	65	5837	0.360	ng	# 32
5) Chlorodifluoromethane ...	3.39	67	2860	0.496	ng	# 1
6) 1-Chloro-1,1-Difluoroe...	3.62	65	2301	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	0.00	43	0	N.D.	d	
12) 2-Methylpentane	6.57	71	11322	0.685	ng	# 1
13) 2,2-Dichloropropane	7.51	77	942	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	9.07	84	3725	N.D.		
17) 2,3-Dimethylpentane	9.59	56	7935	0.264	ng	# 85
18) Dibromomethane	9.88	174	461	N.D.		
20) Methyl Cyclohexane	11.47	55	56008	1.696	ng	86
21) 1,3-Dichloropropane	12.61	76	1402	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	15.23	91	813	N.D.		
24) 1,2,3-Trichloropropane	16.42	75	648	N.D.		
25) Bromobenzene	0.00	77	0	N.D.	d	
26) 2-Chlorotoluene	17.68	91	715	N.D.		
27) 4-Chlorotoluene	0.00	91	0	N.D.	d	
28) Indane	19.40	117	7388	N.D.		
29) Indene	19.51	115	2442	N.D.		
30) 1,2,4,5-Tetramethylben...	20.70	119	7497	N.D.		
31) 1,2,3,4-Tetramethylben...	20.70	119	7497	N.D.		
32) 1,2,3,5-Tetramethylben...	0.00	119	0	N.D.	d	
33) 1,2,3-Trichlorobenzene	21.86	180	70	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242311.D
Acq On : 24 Mar 2023 11:53
Sample : P2301250-009 (1000mL)
Misc : S35-01202301

Vial: 2
Operator: TZ
Inst : MS13

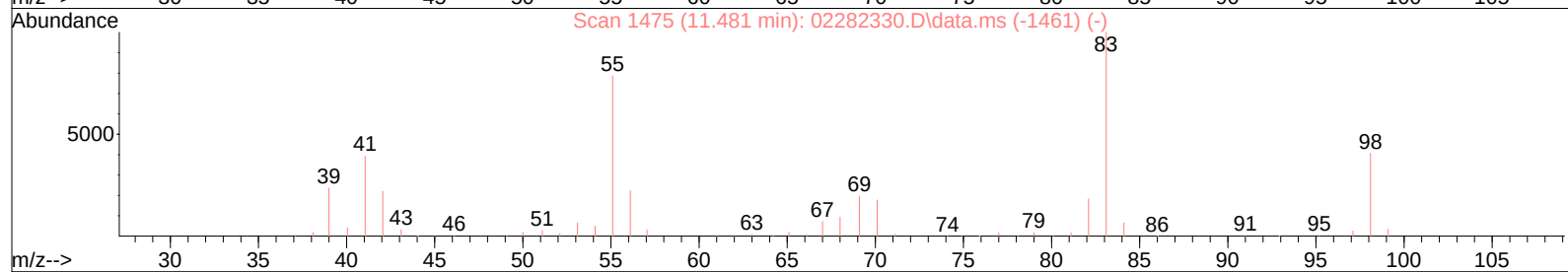
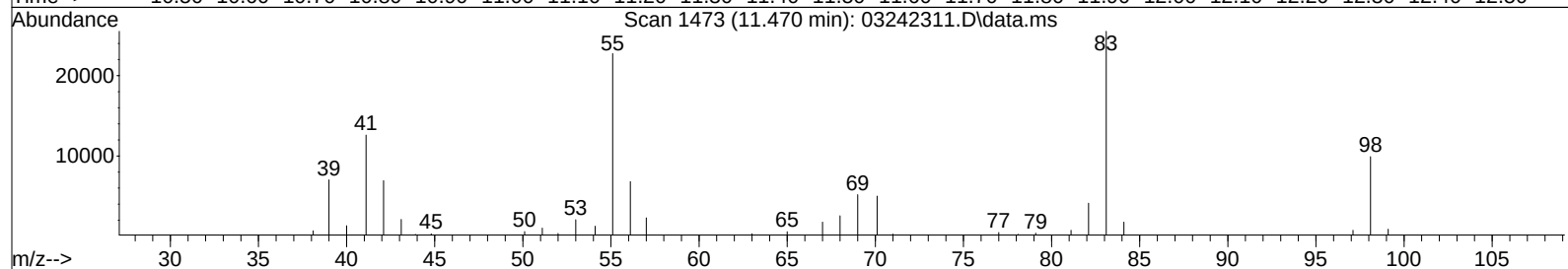
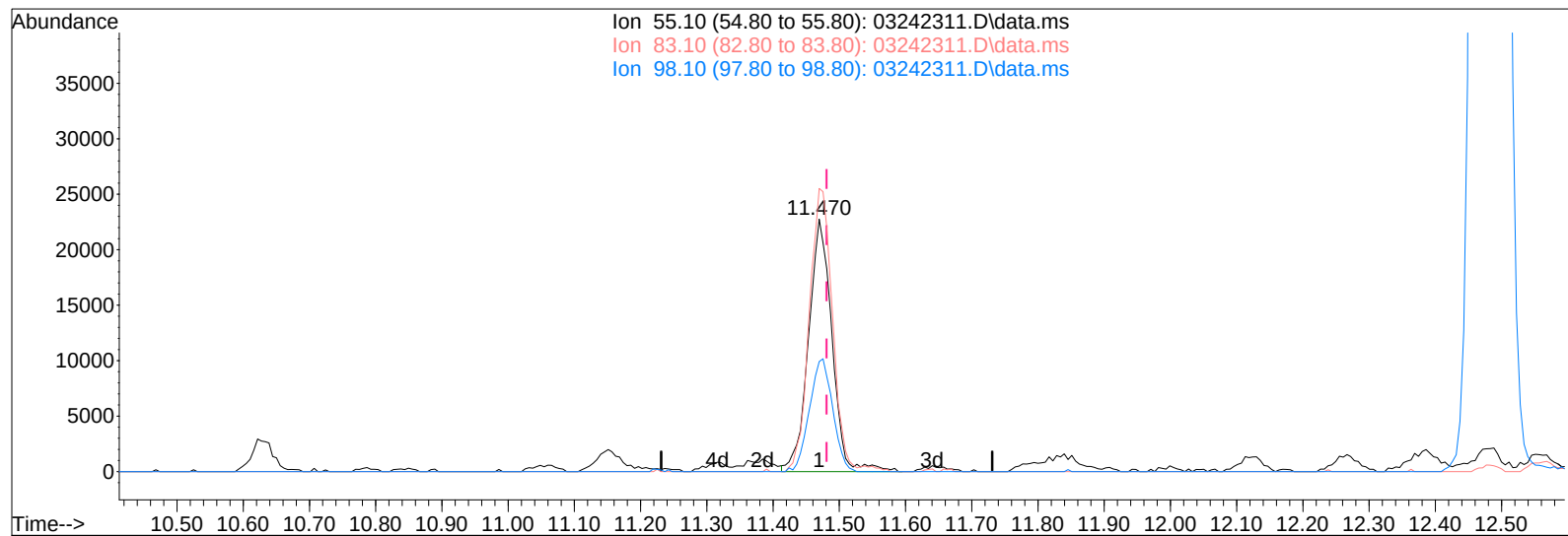
Quant Time: Mar 28 09:42:11 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242311.D
Acq On : 24 Mar 2023 11:53
Sample : P2301250-009 (1000mL)
Misc : S35-01202301

Vial: 2
Operator: TZ
Inst : MS13

Quant Time: Mar 27 16:04:05 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03242311.D\data.ms

(20) Methyl Cyclohexane (T)

11.470min (-0.011) 1.70ng

response 56008

Ion	Exp%	Act%
55.10	100	100
83.10	128.30	111.65
98.10	53.10	44.15
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG8

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02268

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -3.50 Final Pressure (psig): 4.13

Container Dilution Factor: 1.68

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.5	0.89	0.15	0.50	0.18	0.030	
74-87-3	Chloromethane	ND	0.35	0.14	ND	0.17	0.070	
75-01-4	Vinyl Chloride	0.17	0.18	0.096	0.068	0.072	0.037	J
74-83-9	Bromomethane	ND	0.35	0.12	ND	0.091	0.032	
75-00-3	Chloroethane	ND	0.35	0.11	ND	0.13	0.042	
67-64-1	Acetone	73	8.9	2.0	31	3.7	0.85	
75-69-4	Trichlorofluoromethane	1.1	0.87	0.14	0.19	0.16	0.024	
75-35-4	1,1-Dichloroethene	ND	0.18	0.12	ND	0.047	0.031	
75-09-2	Methylene Chloride	5.6	0.89	0.25	1.6	0.26	0.073	
76-13-1	Trichlorotrifluoroethane	0.64	0.91	0.13	0.084	0.12	0.017	J
75-15-0	Carbon Disulfide	0.54	1.8	0.27	0.17	0.58	0.086	J
156-60-5	trans-1,2-Dichloroethene	ND	0.18	0.12	ND	0.047	0.031	
75-34-3	1,1-Dichloroethane	0.63	0.18	0.13	0.16	0.046	0.032	
1634-04-4	Methyl tert-Butyl Ether	0.13	0.91	0.11	0.035	0.25	0.029	J
78-93-3	2-Butanone (MEK)	7.0	1.7	0.18	2.4	0.59	0.063	
156-59-2	cis-1,2-Dichloroethene	0.15	0.18	0.13	0.037	0.047	0.032	J
67-66-3	Chloroform	9.5	0.18	0.12	2.0	0.038	0.024	
107-06-2	1,2-Dichloroethane	ND	0.18	0.099	ND	0.046	0.024	
71-55-6	1,1,1-Trichloroethane	66	0.18	0.11	12	0.034	0.020	
71-43-2	Benzene	0.82	0.18	0.13	0.26	0.058	0.041	
56-23-5	Carbon Tetrachloride	4.0	0.18	0.12	0.64	0.029	0.020	
110-82-7	Cyclohexane	0.75	1.8	0.25	0.22	0.51	0.073	J
78-87-5	1,2-Dichloropropane	ND	0.18	0.11	ND	0.040	0.024	
75-27-4	Bromodichloromethane	ND	0.18	0.13	ND	0.028	0.019	
79-01-6	Trichloroethene	200	1.8	1.2	38	0.34	0.23	D

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG8

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02268

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -3.50 Final Pressure (psig): 4.13

Container Dilution Factor: 1.68

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.91	0.14	ND	0.20	0.031	
108-10-1	4-Methyl-2-pentanone	0.67	1.8	0.12	0.16	0.45	0.030	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.86	0.18	ND	0.19	0.041	
79-00-5	1,1,2-Trichloroethane	ND	0.18	0.091	ND	0.034	0.017	
108-88-3	Toluene	9.3	0.89	0.11	2.5	0.24	0.029	
591-78-6	2-Hexanone	0.79	1.8	0.11	0.19	0.45	0.027	J
124-48-1	Dibromochloromethane	ND	0.18	0.12	ND	0.022	0.014	
106-93-4	1,2-Dibromoethane	ND	0.18	0.10	ND	0.024	0.014	
127-18-4	Tetrachloroethene	66	0.18	0.12	9.8	0.027	0.017	
108-90-7	Chlorobenzene	ND	0.89	0.12	ND	0.19	0.026	
100-41-4	Ethylbenzene	1.0	0.89	0.13	0.23	0.21	0.029	
179601-23-1	m,p-Xylenes	4.3	1.8	0.24	0.98	0.43	0.054	
75-25-2	Bromoform	ND	0.91	0.18	ND	0.088	0.018	
100-42-5	Styrene	0.74	0.89	0.14	0.17	0.21	0.034	J
95-47-6	o-Xylene	1.8	0.89	0.13	0.41	0.21	0.030	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.18	0.12	ND	0.027	0.018	
98-82-8	Cumene	0.21	0.91	0.13	0.043	0.18	0.026	J
541-73-1	1,3-Dichlorobenzene	ND	0.89	0.13	ND	0.15	0.022	
106-46-7	1,4-Dichlorobenzene	ND	0.89	0.14	ND	0.15	0.023	
95-50-1	1,2-Dichlorobenzene	ND	0.91	0.13	ND	0.15	0.022	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.8	0.17	ND	0.19	0.017	
120-82-1	1,2,4-Trichlorobenzene	ND	1.8	0.22	ND	0.25	0.029	
79-20-9	Methyl Acetate	ND	0.84	0.40	ND	0.28	0.13	X
108-87-2	Methylcyclohexane	1.6	0.84	0.44	0.39	0.21	0.11	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS13\DATA\2023_03\24\03242312.D
 Acq On : 24 Mar 2023 12:30
 Sample : P2301250-010 (1000mL)
 Misc : S35-01202301

Vial: 3
 Operator: TZ
 Inst : MS13

Tz 3/27/23

Quant Time: Mar 27 11:55:57 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.33	130	251407	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	9.38	114	1096437	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	208150	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.09	65	421967	12.648	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	101.20%
57) Toluene-d8 (SS2)	12.48	98	1234529	11.533	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.24%
73) Bromofluorobenzene (SS3)	16.85	174	465179	11.865	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.88%

Target Compounds

						Qvalue
2) Propene	3.39	42	30485	1.212	ng	# 68
3) Dichlorodifluoromethan...	3.46	85	67550	1.467	ng	100
4) Chloromethane	0.00	50	0	N.D.	d	
5) 1,2-Dichloro-1,1,2,2-t...	3.72	135	1650	0.071	ng	85
6) Vinyl Chloride	3.79	62	3179	0.103	ng	93
7) 1,3-Butadiene	0.00	54	0	N.D.	d	
8) Bromomethane	4.13	94	143	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	4.42	45	584352	32.727	ng	100
11) Acetonitrile	4.56	41	4861	0.105	ng	91
12) Acrolein	4.63	56	2695	0.183	ng	95
13) Acetone	4.74	58	666254	43.721	ng	97
14) Trichlorofluoromethane	4.86	101	26334	0.635	ng	99
15) 2-Propanol (Isopropanol)	4.96	45	381919	6.208	ng	100
16) Acrylonitrile	0.00	53	0	N.D.	d	
17) 1,1-Dichloroethene	5.36	96	186	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.45	84	74165	3.320	ng	94
20) 3-Chloro-1-propene (Al...	5.60	41	406	N.D.		
21) Trichlorotrifluoroethane	5.68	151	8313	0.381	ng	98
22) Carbon Disulfide	5.70	76	28239	0.319	ng	100
23) trans-1,2-Dichloroethene	6.23	61	245	N.D.		
24) 1,1-Dichloroethane	6.42	63	14954	0.376	ng	99
25) Methyl tert-Butyl Ether	6.48	73	5208	0.075	ng	96
26) Vinyl Acetate	6.54	86	3373	0.819	ng	# 50
27) 2-Butanone (MEK)	6.77	72	55960	4.137	ng	# 88
28) cis-1,2-Dichloroethene	7.17	61	2816	0.088	ng	91
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	7.38	61	112942	12.697	ng	95
31) n-Hexane	7.38	57	18365	0.536	ng	99
32) Chloroform	7.45	83	229910	5.676	ng	100
34) Tetrahydrofuran (THF)	7.87	72	6490	0.467	ng	# 72
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.20	62	373	N.D.		
38) 1,1,1-Trichloroethane	8.48	97	1415618	39.007	ng	100
39) Isopropyl Acetate	9.38	61	31466	No Calib		
40) 1-Butanol	8.88	56	48037	No Calib	#	
41) Benzene	8.98	78	41813	0.490	ng	99
42) Carbon Tetrachloride	9.15	117	76203	2.380	ng	98
43) Cyclohexane	9.29	84	13871	0.444	ng	96
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.	d	
45) 1,2-Dichloropropane	9.93	63	143	N.D.		
46) Bromodichloromethane	10.15	83	1075	N.D.		
47) Trichloroethene	10.22	130	2903178	116.182	ng	99
48) 1,4-Dioxane	0.00	88	0	N.D.	d	
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.	d	
50) Methyl Methacrylate	10.47	100	114	N.D.		

Data File : I:\MS13\DATA\2023_03\24\03242312.D
 Acq On : 24 Mar 2023 12:30
 Sample : P2301250-010 (1000mL)
 Misc : S35-01202301

Vial: 3
 Operator: TZ
 Inst : MS13

Quant Time: Mar 27 11:55:57 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

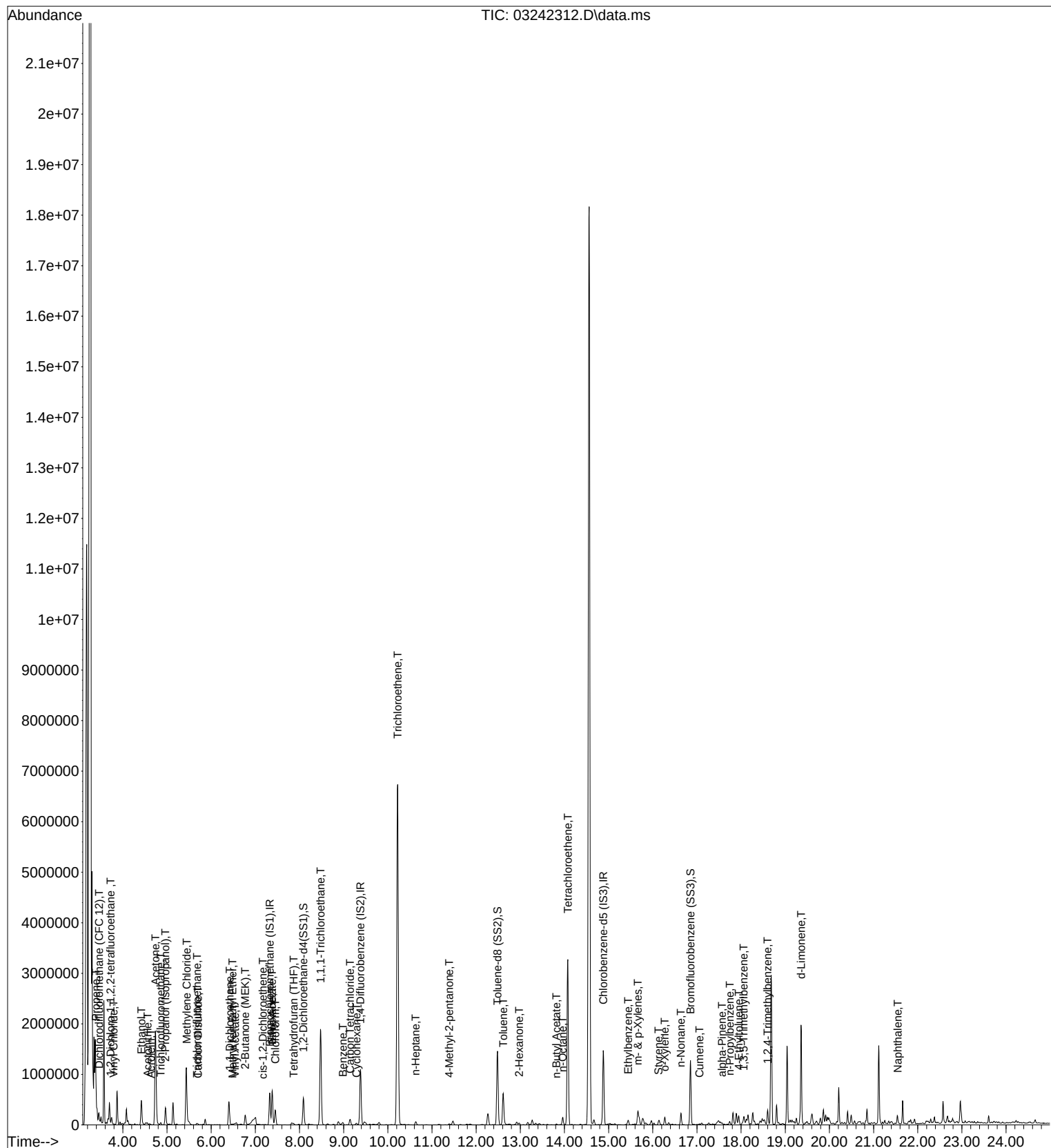
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.63	71	17734	0.859	ng	98
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.39	58	7297	0.397	ng	92
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.61	91	564230	5.537	ng	100
59) 2-Hexanone	12.97	43	23313	0.471	ng	# 65
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.81	43	17703	0.315	ng	97
63) n-Octane	13.96	57	29340	1.464	ng	94
64) Tetrachloroethene	14.08	166	1223136	39.454	ng	99
65) Chlorobenzene	14.94	112	1847	N.D.		
66) Ethylbenzene	15.44	91	73333	0.603	ng	99
67) m- & p-Xylenes	15.66	91	248969	2.545	ng	97
68) Bromoform	15.72	173	168	N.D.		
69) Styrene	16.13	104	29690	0.441	ng	99
70) o-Xylene	16.27	91	100226	1.071	ng	100
71) n-Nonane	16.64	43	93544	2.066	ng	97
72) 1,1,2,2-Tetrachloroethane	16.25	83	132	N.D.		
74) Cumene	17.06	105	14445	0.127	ng	97
75) alpha-Pinene	17.57	93	14554	0.277	ng	97
76) n-Propylbenzene	17.74	91	52524	0.385	ng	99
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	82478	0.756	ng	99
79) 1,3,5-Trimethylbenzene	18.06	105	56426	0.585	ng	98
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.60	105	161116	1.693	ng	90
83) n-Decane	17.11	58	1715	No Calib	#	
84) Benzyl Chloride	18.75	91	835	N.D.		
85) 1,3-Dichlorobenzene	18.77	146	2733	N.D.		
86) 1,4-Dichlorobenzene	18.86	146	2325	N.D.		
87) sec-Butylbenzene	18.96	105	3689	N.D.		
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.	d	
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.29	146	2539	N.D.		
91) d-Limonene	19.36	68	451743	14.035	ng	99
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.26	58	7782	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	1026	N.D.		
95) Naphthalene	21.55	128	25316	0.245	ng	98
96) n-Dodecane	19.10	58	1458	No Calib	#	
97) Hexachlorobutadiene	21.98	225	505	N.D.		
98) Cyclohexanone	15.70	55	863	No Calib	#	
99) tert-Butylbenzene	0.00	119	0	N.D.	d	
100) n-Butylbenzene	0.00	91	0	N.D.	d	
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242312.D
Acq On : 24 Mar 2023 12:30
Sample : P2301250-010 (1000mL)
Misc : S35-01202301

Vial: 3
Operator: TZ
Inst : MS13

Quant Time: Mar 27 11:55:57 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242312.D
 Acq On : 24 Mar 2023 12:30
 Sample : P2301250-010 (1000mL)
 Misc : S35-01202301

Vial: 3
 Operator: TZ
 Inst : MS13

Tz 3/27/23

Quant Time: Mar 27 11:55:57 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.33	130	251407	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	9.38	114	1096437	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	208150	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.09	65	421967	12.648	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	101.20%
57) Toluene-d8 (SS2)	12.48	98	1234529	11.533	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.24%
73) Bromofluorobenzene (SS3)	16.85	174	465179	11.865	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.88%

Target Compounds

						Qvalue
2) Propene	3.39	42	30485	1.212	ng	# 68
3) Dichlorodifluoromethan...	3.46	85	67550	1.467	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	3.72	135	1650	0.071	ng	85
6) Vinyl Chloride	3.79	62	3179	0.103	ng	93
10) Ethanol	4.42	45	584352	32.727	ng	100
11) Acetonitrile	4.56	41	4861	0.105	ng	91
12) Acrolein	4.63	56	2695	0.183	ng	95
13) Acetone	4.74	58	666254	43.721	ng	97
14) Trichlorofluoromethane	4.86	101	26334	0.635	ng	99
15) 2-Propanol (Isopropanol)	4.96	45	381919	6.208	ng	100
19) Methylene Chloride	5.45	84	74165	3.320	ng	94
21) Trichlorotrifluoroethane	5.68	151	8313	0.381	ng	98
22) Carbon Disulfide	5.70	76	28239	0.319	ng	100
24) 1,1-Dichloroethane	6.42	63	14954	0.376	ng	99
25) Methyl tert-Butyl Ether	6.48	73	5208	0.075	ng	96
26) Vinyl Acetate	6.54	86	3373	0.819	ng	# 50
27) 2-Butanone (MEK)	6.77	72	55960	4.137	ng	# 88
28) cis-1,2-Dichloroethene	7.17	61	2816	0.088	ng	91
30) Ethyl Acetate	7.38	61	112942	12.697	ng	95
31) n-Hexane	7.38	57	18365	0.536	ng	99
32) Chloroform	7.45	83	229910	5.676	ng	100
34) Tetrahydrofuran (THF)	7.87	72	6490	0.467	ng	# 72
38) 1,1,1-Trichloroethane	8.48	97	1415618	39.007	ng	100
41) Benzene	8.98	78	41813	0.490	ng	99
42) Carbon Tetrachloride	9.15	117	76203	2.380	ng	98
43) Cyclohexane	9.29	84	13871	0.444	ng	96
47) Trichloroethene	10.22	130	2903178	116.182	ng	99
51) n-Heptane	10.63	71	17734	0.859	ng	98
53) 4-Methyl-2-pentanone	11.39	58	7297	0.397	ng	92
58) Toluene	12.61	91	564230	5.537	ng	100
59) 2-Hexanone	12.97	43	23313	0.471	ng	# 65
62) n-Butyl Acetate	13.81	43	17703	0.315	ng	97
63) n-Octane	13.96	57	29340	1.464	ng	94
64) Tetrachloroethene	14.08	166	1223136	39.454	ng	99
66) Ethylbenzene	15.44	91	73333	0.603	ng	99
67) m- & p-Xylenes	15.66	91	248969	2.545	ng	97
69) Styrene	16.13	104	29690	0.441	ng	99
70) o-Xylene	16.27	91	100226	1.071	ng	100
71) n-Nonane	16.64	43	93544	2.066	ng	97
74) Cumene	17.06	105	14445	0.127	ng	97
75) alpha-Pinene	17.57	93	14554	0.277	ng	97
76) n-Propylbenzene	17.74	91	52524	0.385	ng	99
78) 4-Ethyltoluene	17.95	105	82478	0.756	ng	99
79) 1,3,5-Trimethylbenzene	18.06	105	56426	0.585	ng	98
82) 1,2,4-Trimethylbenzene	18.60	105	161116	1.693	ng	90
91) d-Limonene	19.36	68	451743	14.035	ng	99
95) Naphthalene	21.55	128	25316	0.245	ng	98

Data File : I:\MS13\DATA\2023_03\24\03242312.D Vial: 3
Acq On : 24 Mar 2023 12:30 Operator: TZ
Sample : P2301250-010 (1000mL) Inst : MS13
Misc : S35-01202301

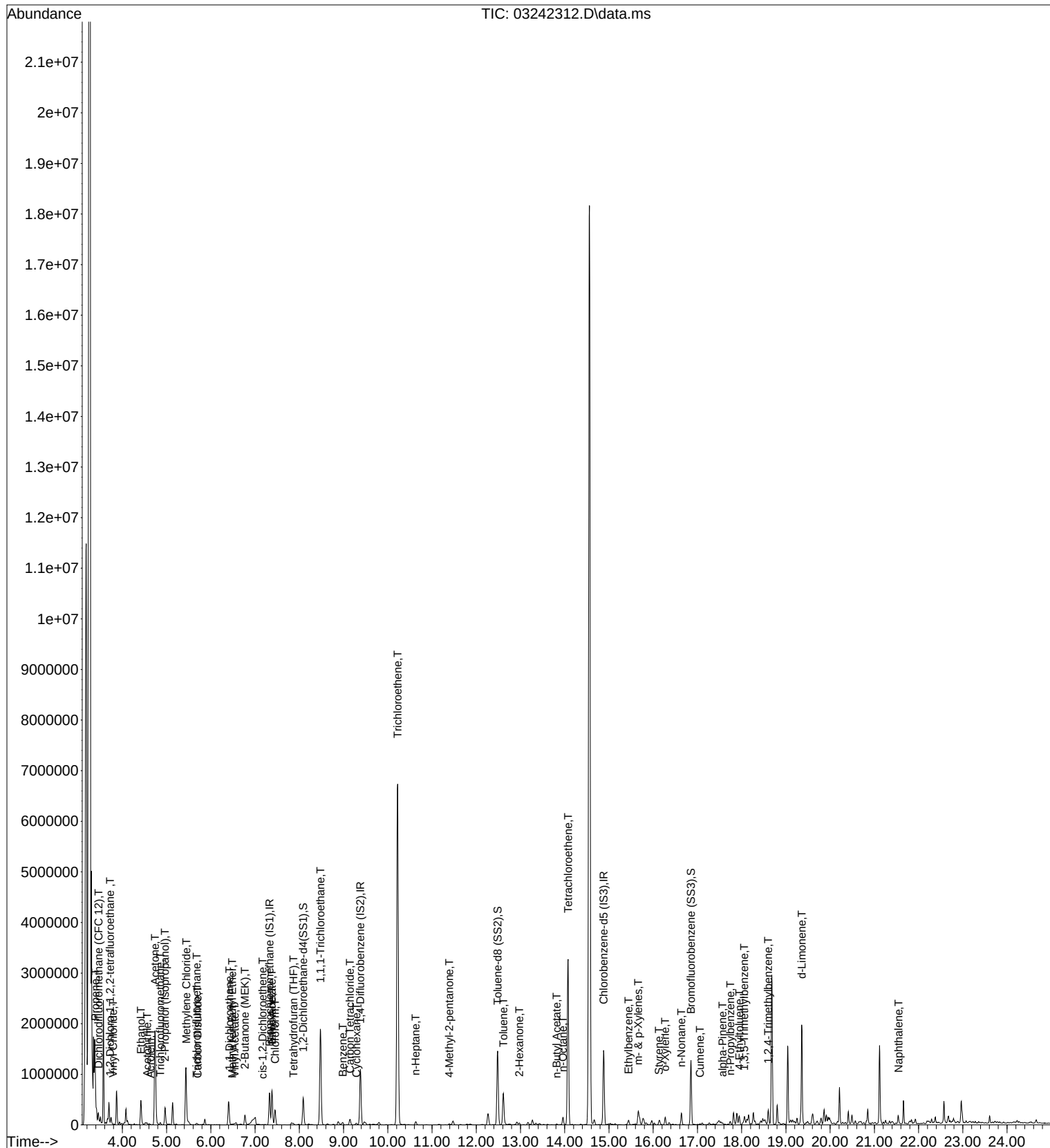
Quant Time: Mar 27 11:55:57 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M

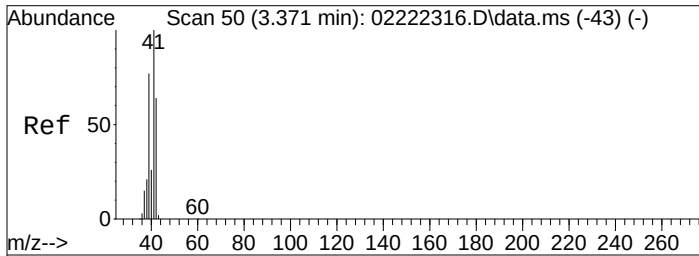
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Vial: 3
Operator: TZ
Inst : MS13

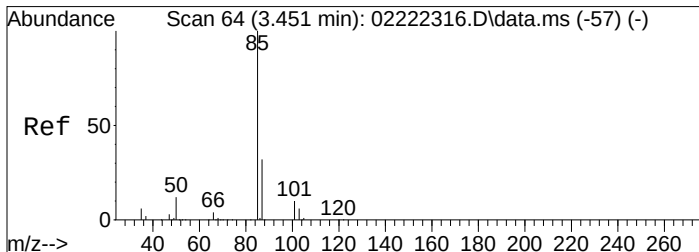
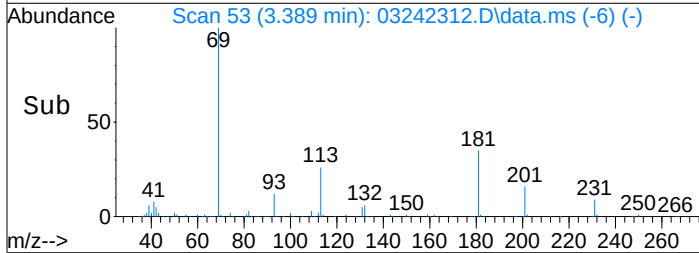
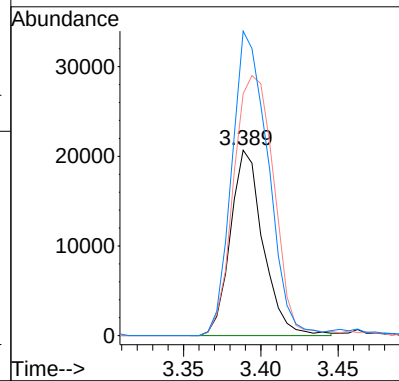
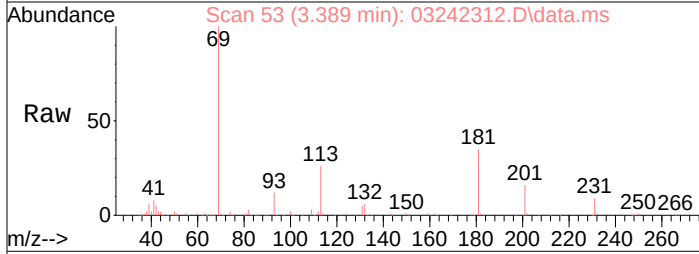
Quant Time: Mar 27 11:55:57 2023





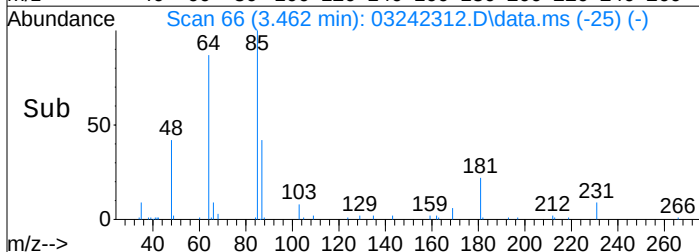
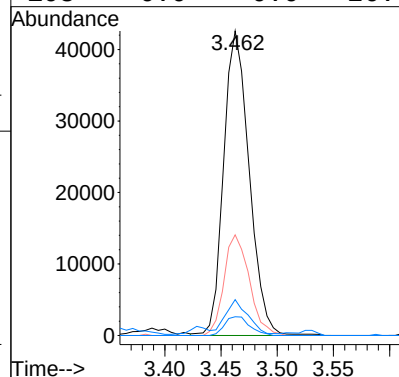
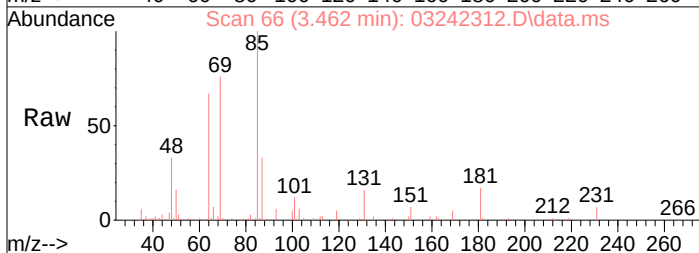
#2
 Propene
 Concen: 1.21 ng
 RT: 3.39 min Scan# 53
 Delta R.T. 0.018 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:30

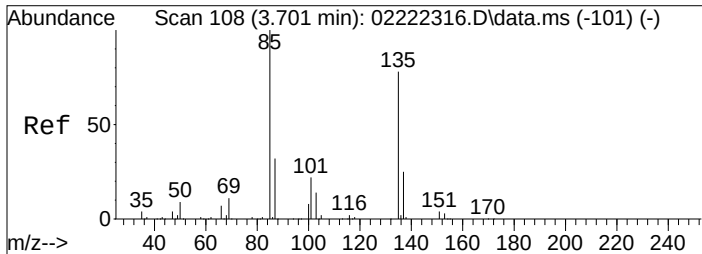
Tgt Ion	Ratio	Lower	Upper
42	100		
39	173.6	100.7	140.7#
41	181.1	134.4	174.4#



#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.47 ng
 RT: 3.46 min Scan# 66
 Delta R.T. -0.016 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:30

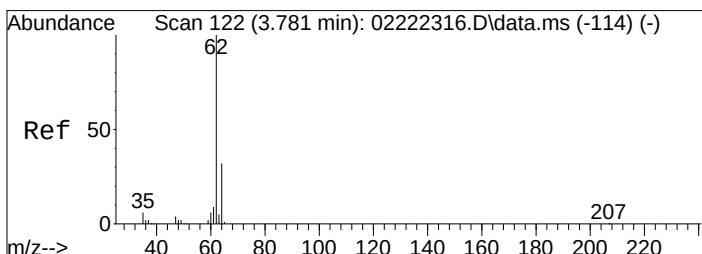
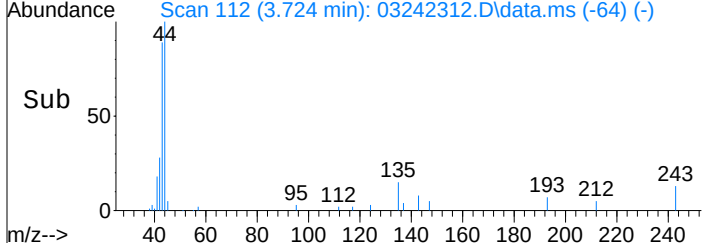
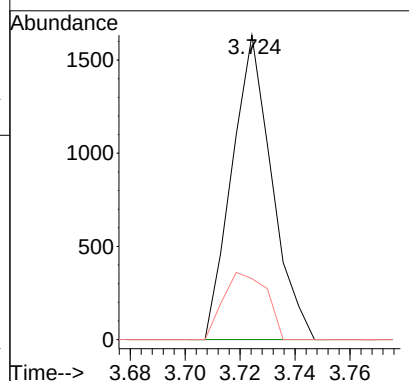
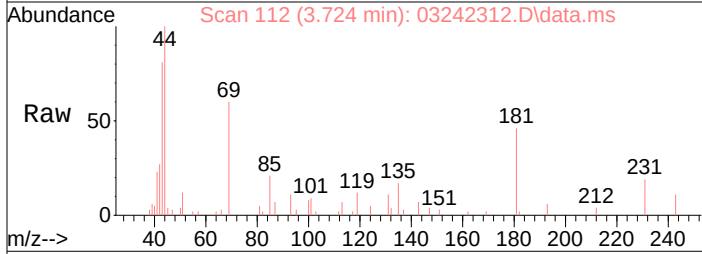
Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.7	12.4	52.4
101	9.5	0.0	29.4
103	6.0	0.0	26.0





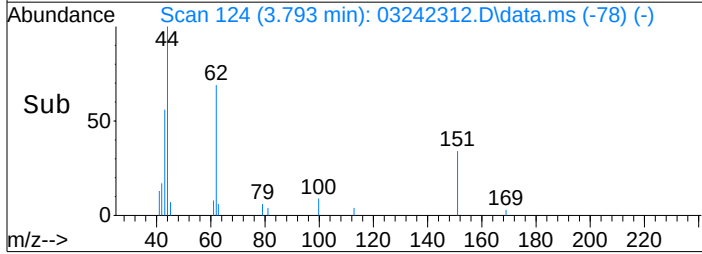
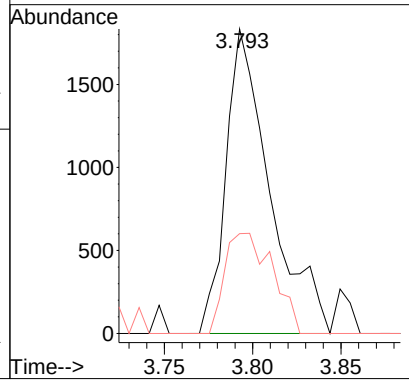
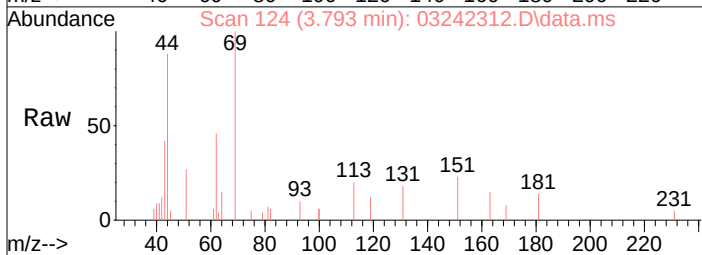
#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.07 ng
 RT: 3.72 min Scan# 112
 Delta R.T. 0.023 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:30

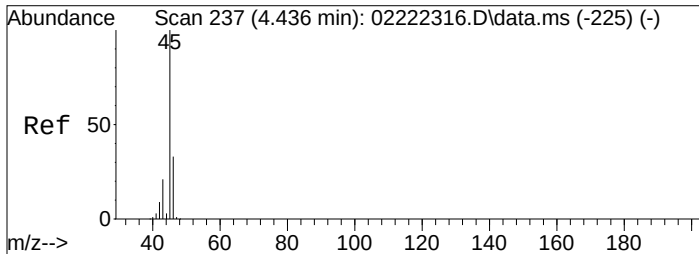
Tgt Ion:	135	Resp:	1650
Ion Ratio	Lower	Upper	
135	100		
137	23.9	12.2	52.2



#6
 Vinyl Chloride
 Concen: 0.10 ng
 RT: 3.79 min Scan# 124
 Delta R.T. 0.011 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:30

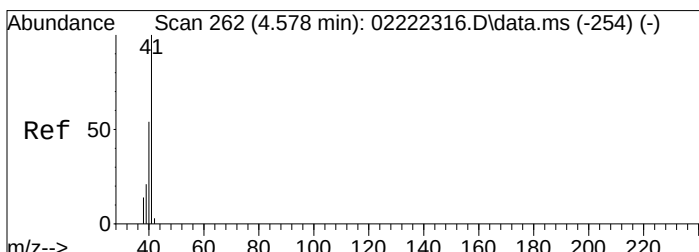
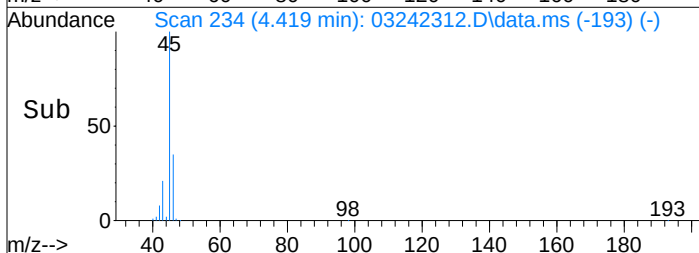
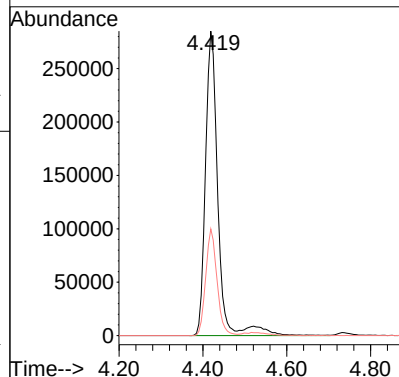
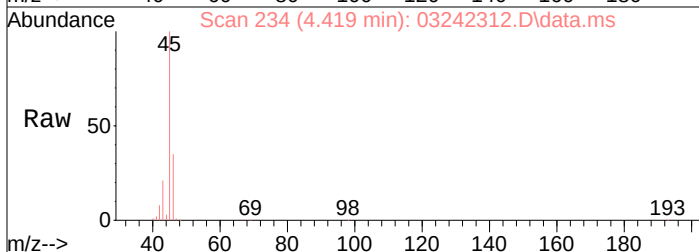
Tgt Ion:	62	Resp:	3179
Ion Ratio	Lower	Upper	
62	100		
64	35.7	11.8	51.8





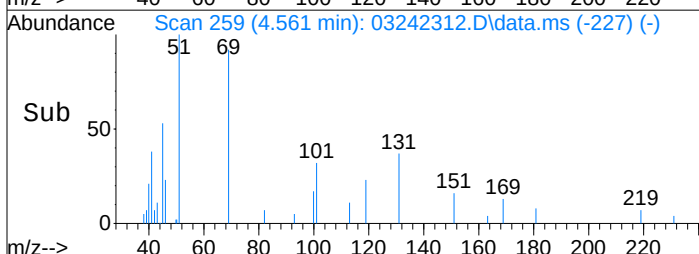
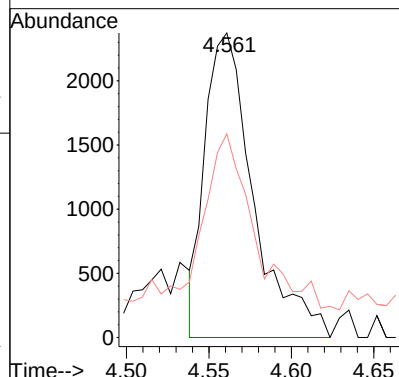
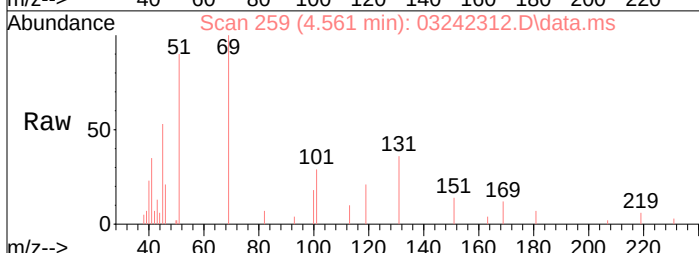
#10
Ethanol
Concen: 32.73 ng
RT: 4.42 min Scan# 234
Delta R.T. -0.017 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:30

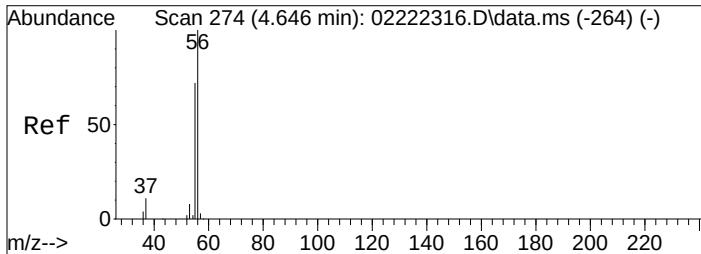
Tgt Ion: 45 Resp: 584352
Ion Ratio Lower Upper
45 100
46 33.9 13.8 53.8



#11
Acetonitrile
Concen: 0.10 ng
RT: 4.56 min Scan# 259
Delta R.T. -0.017 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:30

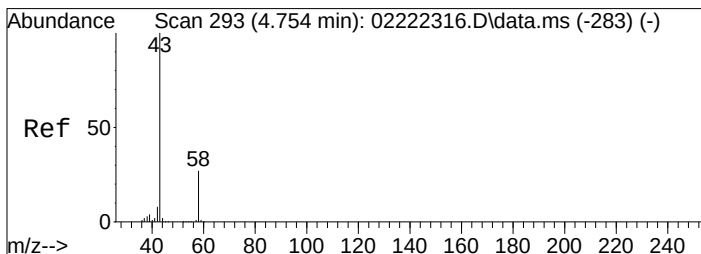
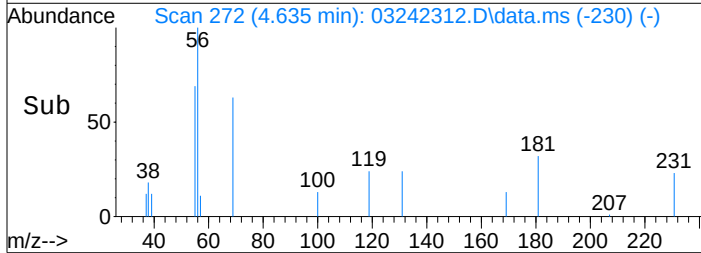
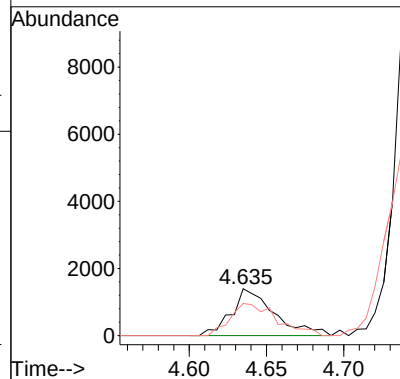
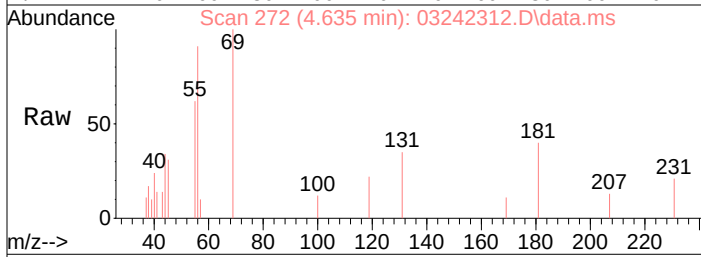
Tgt Ion: 41 Resp: 4861
Ion Ratio Lower Upper
41 100
40 61.1 34.4 74.4





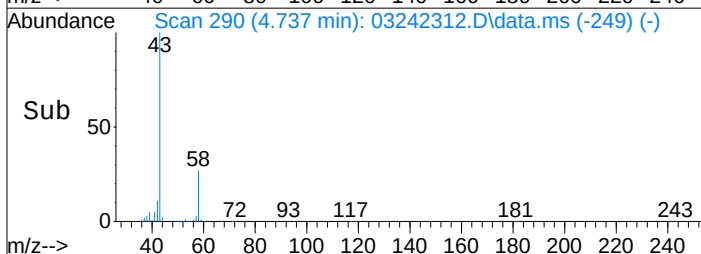
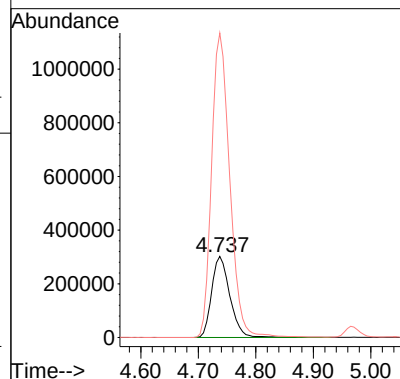
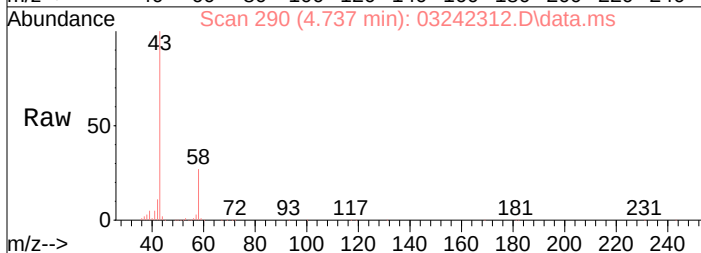
#12
Acrolein
Concen: 0.18 ng
RT: 4.63 min Scan# 272
Delta R.T. -0.011 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:30

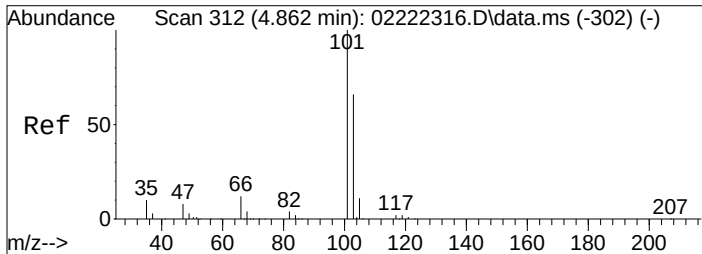
Tgt Ion: 56 Resp: 2695
Ion Ratio Lower Upper
56 100
55 74.7 50.9 90.9



#13
Acetone
Concen: 43.72 ng
RT: 4.74 min Scan# 290
Delta R.T. -0.017 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:30

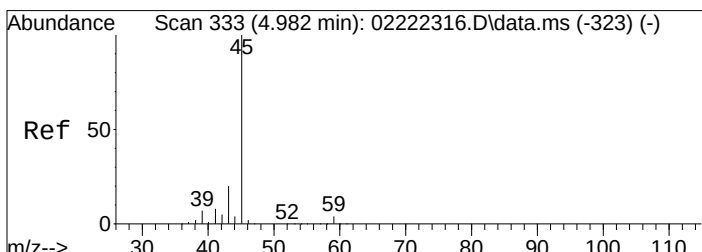
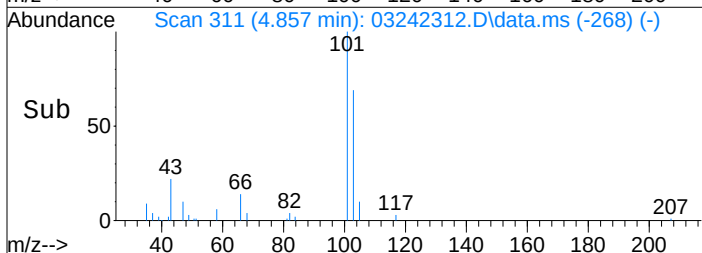
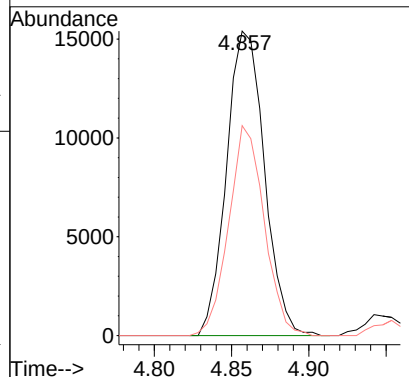
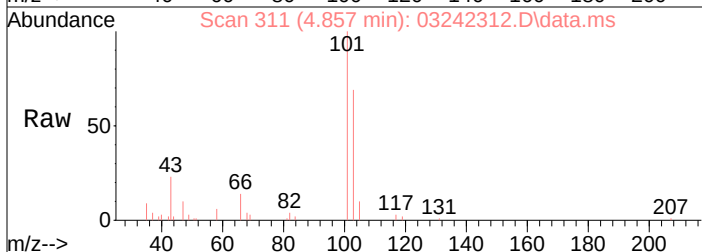
Tgt Ion: 58 Resp: 666254
Ion Ratio Lower Upper
58 100
43 374.4 337.8 397.8





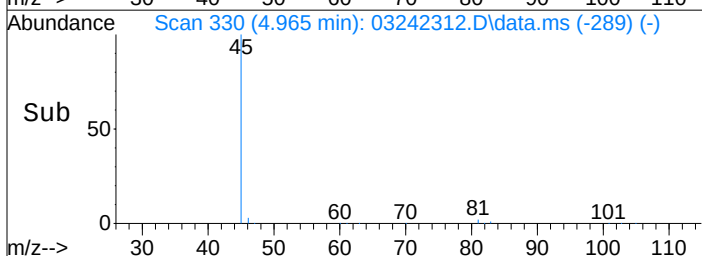
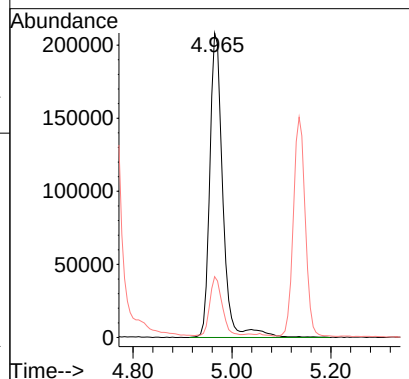
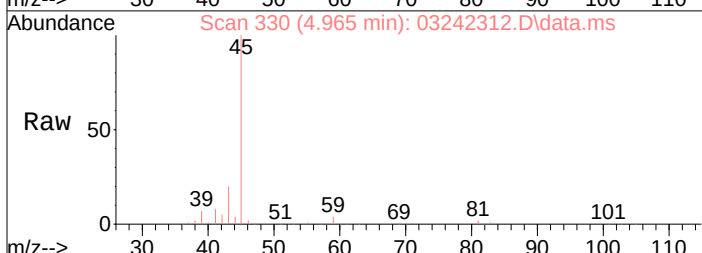
#14
 Trichlorofluoromethane
 Concen: 0.64 ng
 RT: 4.86 min Scan# 311
 Delta R.T. -0.006 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:30

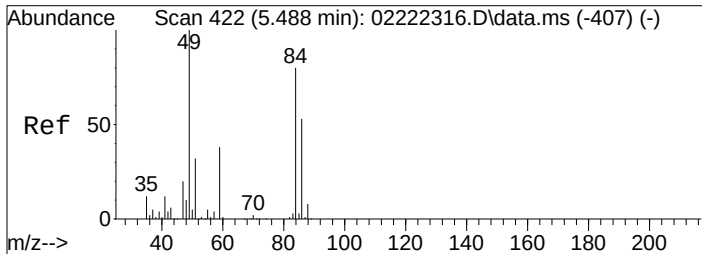
Tgt Ion:	101	Resp:	26334
Ion Ratio	Lower	Upper	
101	100		
103	64.6	45.2	85.2



#15
 2-Propanol (Isopropanol)
 Concen: 6.21 ng
 RT: 4.96 min Scan# 330
 Delta R.T. -0.017 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:30

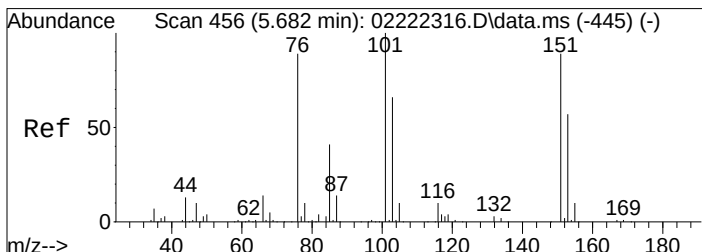
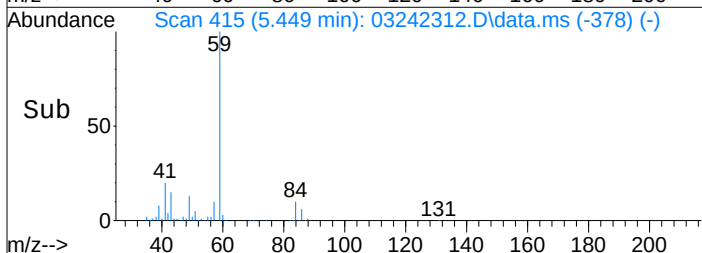
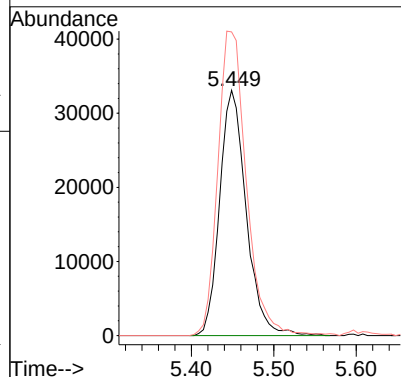
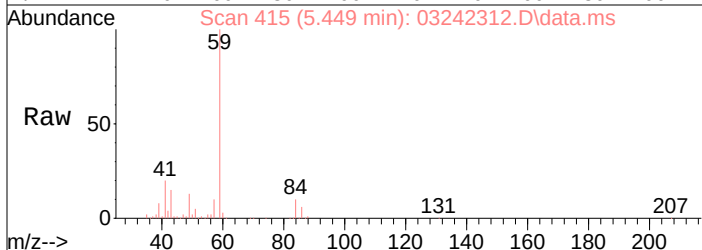
Tgt Ion:	45	Resp:	381919
Ion Ratio	Lower	Upper	
45	100		
43	19.5	0.0	39.7





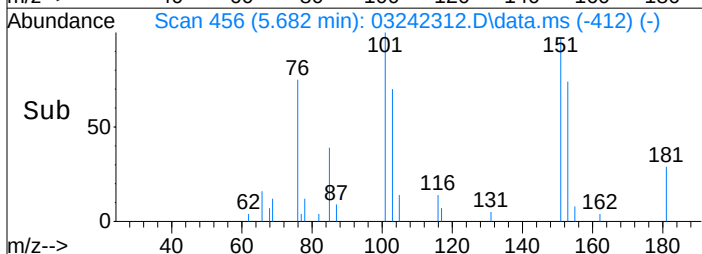
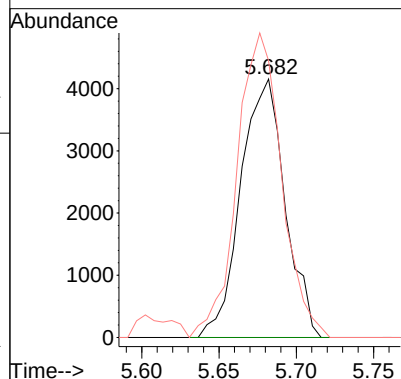
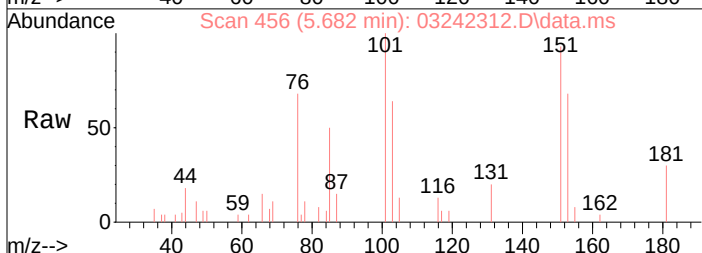
#19
Methylene Chloride
Concen: 3.32 ng
RT: 5.45 min Scan# 415
Delta R.T. -0.040 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:30

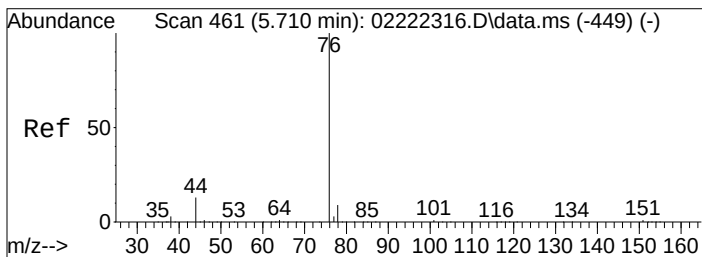
Tgt Ion	Ratio	Lower	Upper
84	100		
49	133.6	101.3	151.3



#21
Trichlorotrifluoroethane
Concen: 0.38 ng
RT: 5.68 min Scan# 456
Delta R.T. 0.000 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:30

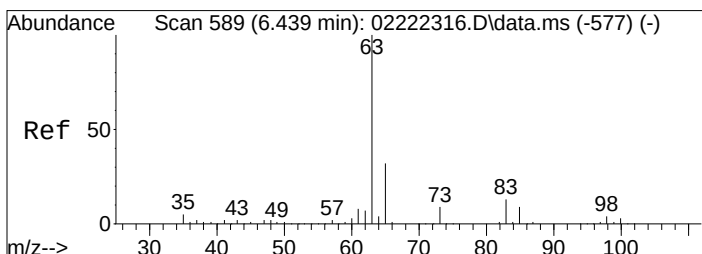
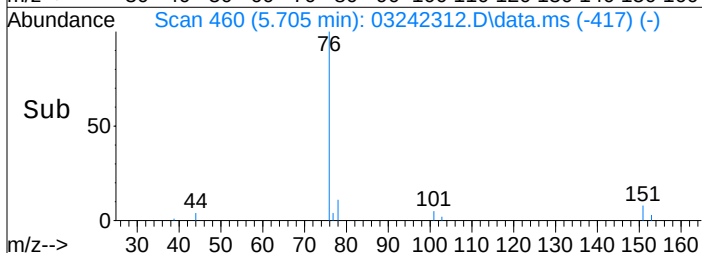
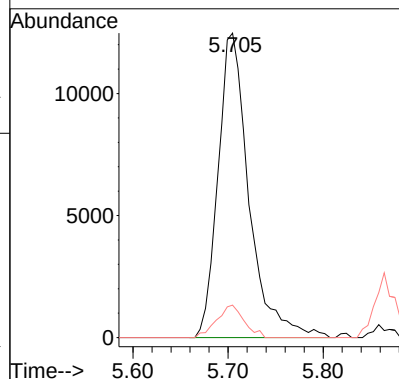
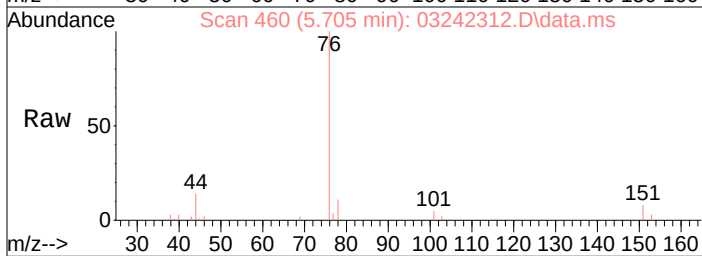
Tgt Ion	Ratio	Lower	Upper
151	100		
101	118.5	96.3	136.3





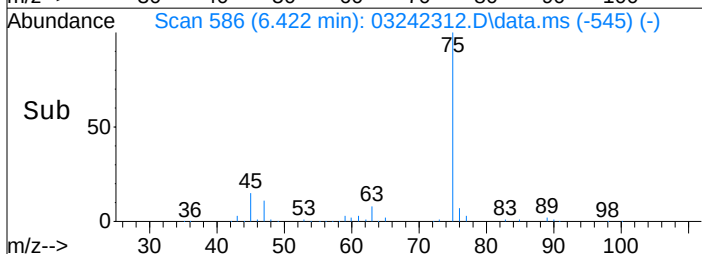
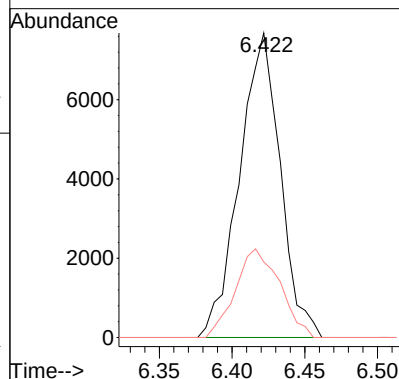
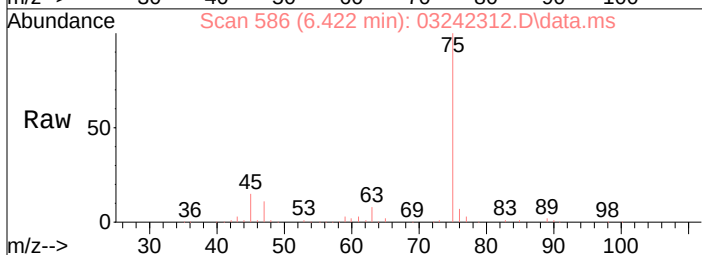
#22
Carbon Disulfide
Concen: 0.32 ng
RT: 5.70 min Scan# 460
Delta R.T. -0.006 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:30

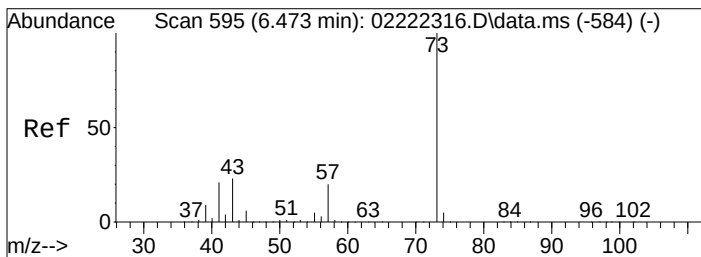
Tgt Ion: 76 Resp: 28239
Ion Ratio Lower Upper
76 100
78 9.4 0.0 29.3



#24
1,1-Dichloroethane
Concen: 0.38 ng
RT: 6.42 min Scan# 586
Delta R.T. -0.017 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:30

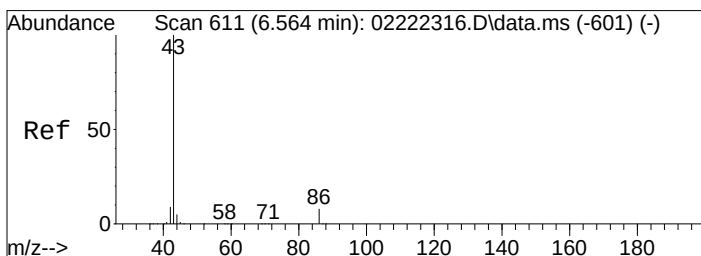
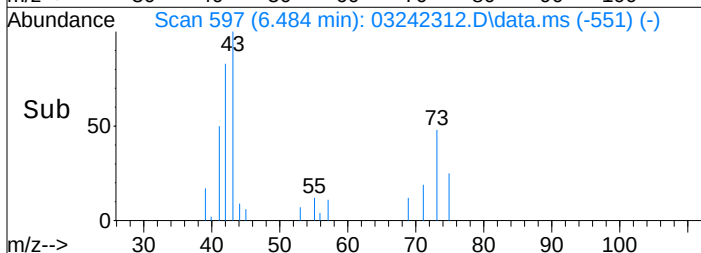
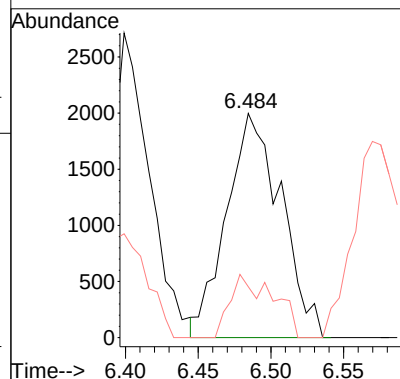
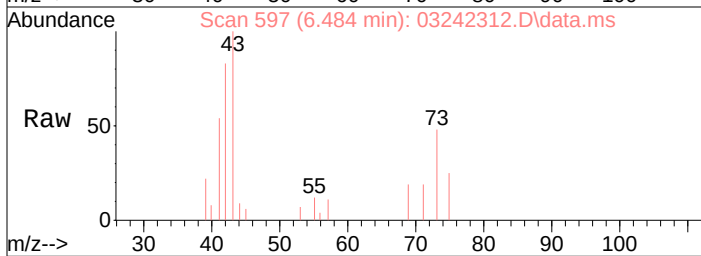
Tgt Ion: 63 Resp: 14954
Ion Ratio Lower Upper
63 100
65 31.7 12.0 52.0





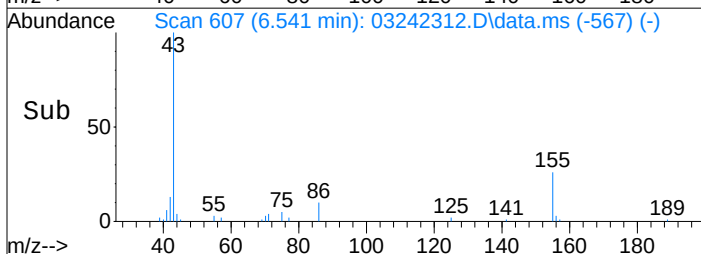
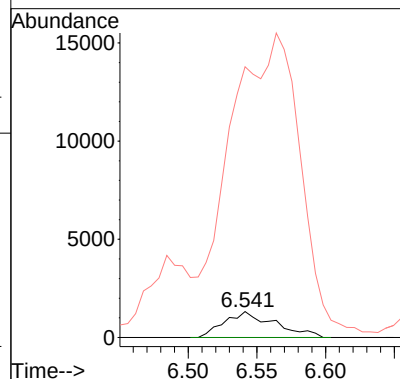
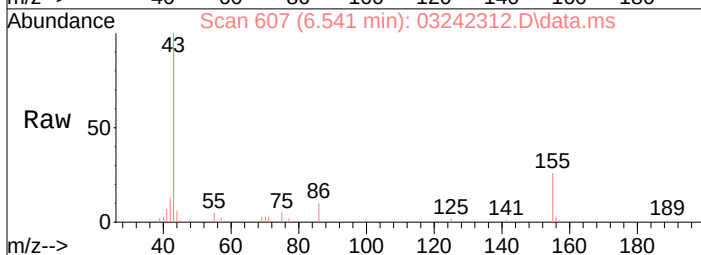
#25
Methyl tert-Butyl Ether
Concen: 0.07 ng
RT: 6.48 min Scan# 597
Delta R.T. 0.011 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:30

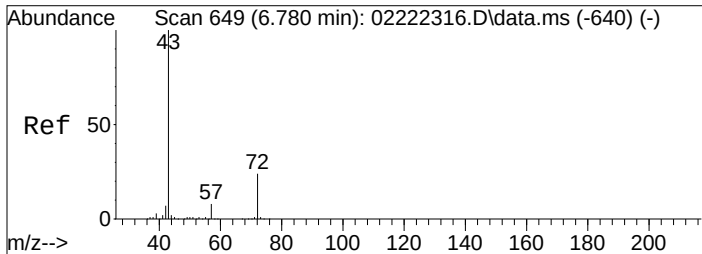
Tgt Ion: 73 Resp: 5208
Ion Ratio Lower Upper
73 100
57 22.4 0.6 40.6



#26
Vinyl Acetate
Concen: 0.82 ng
RT: 6.54 min Scan# 607
Delta R.T. -0.023 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:30

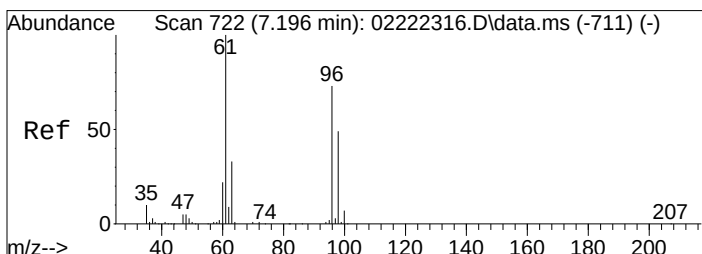
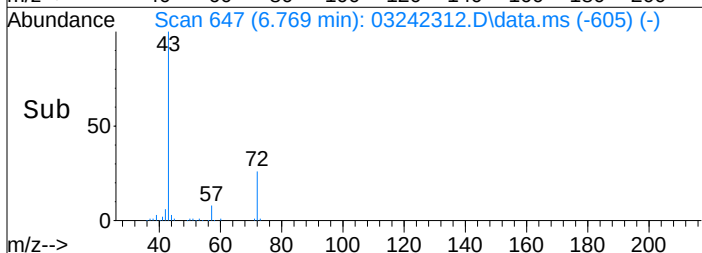
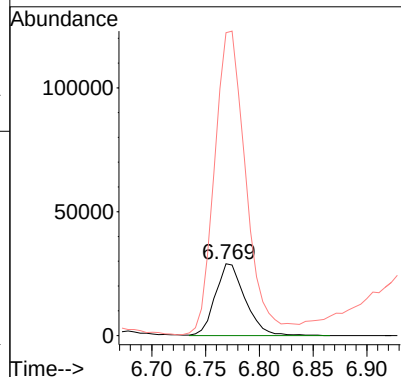
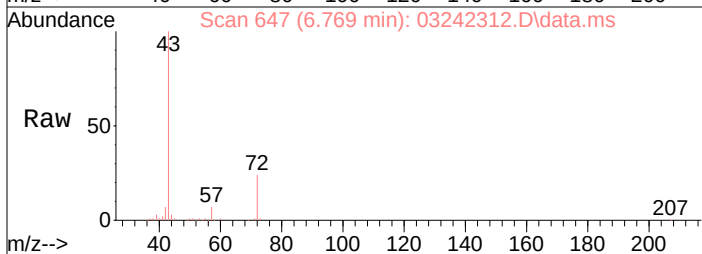
Tgt Ion: 86 Resp: 3373
Ion Ratio Lower Upper
86 100
43 1583.5 1292.1 1332.1#





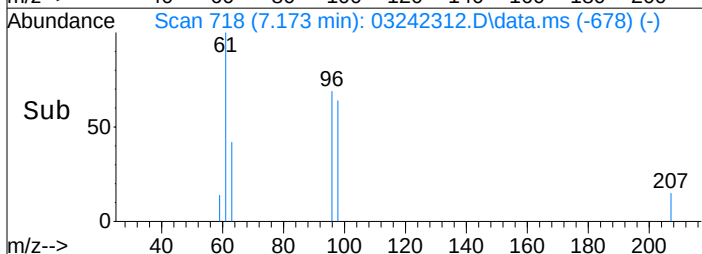
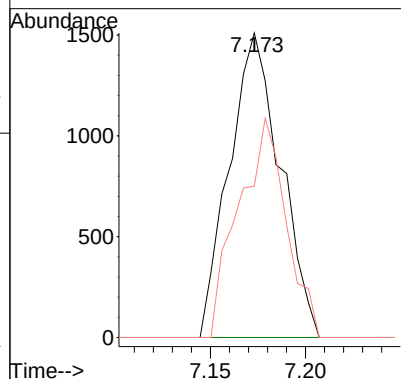
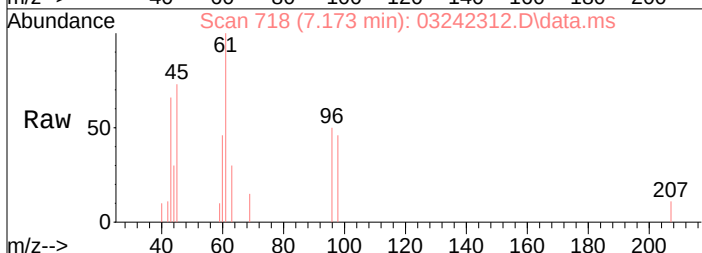
#27
2-Butanone (MEK)
Concen: 4.14 ng
RT: 6.77 min Scan# 647
Delta R.T. -0.011 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:30

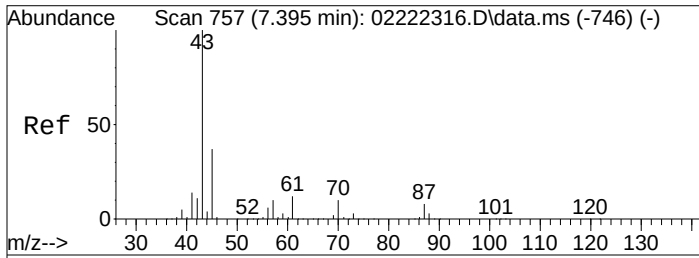
Tgt Ion: 72 Resp: 55960
Ion Ratio Lower Upper
72 100
43 449.1 400.5 440.5#



#28
cis-1,2-Dichloroethene
Concen: 0.09 ng
RT: 7.17 min Scan# 718
Delta R.T. -0.023 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:30

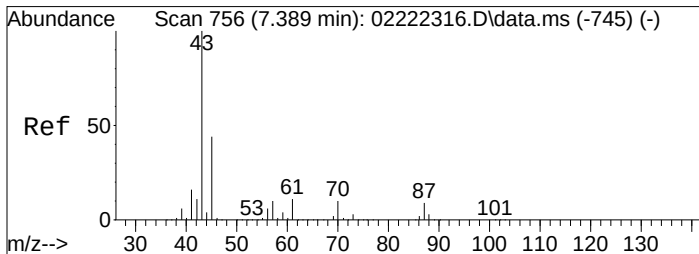
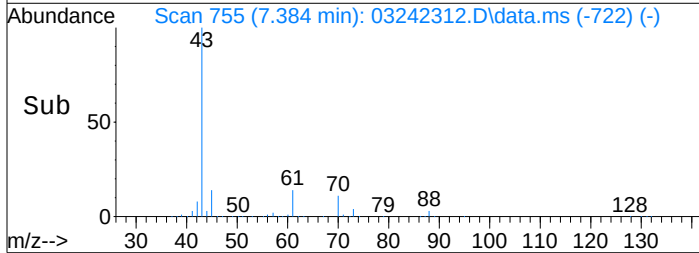
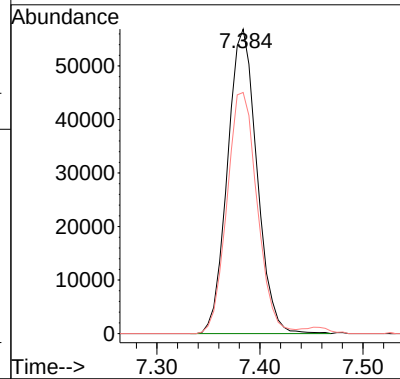
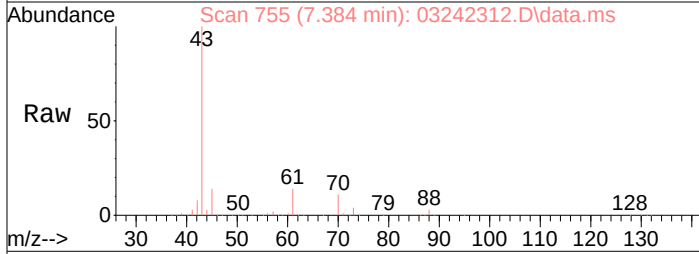
Tgt Ion: 61 Resp: 2816
Ion Ratio Lower Upper
61 100
96 67.0 54.5 94.5





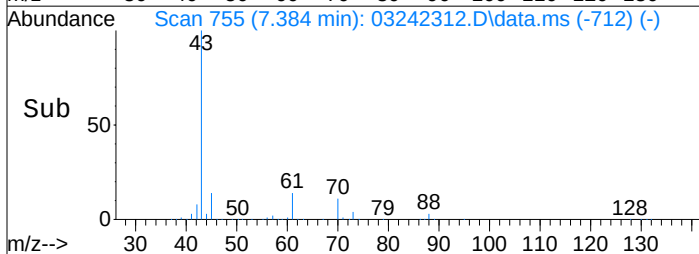
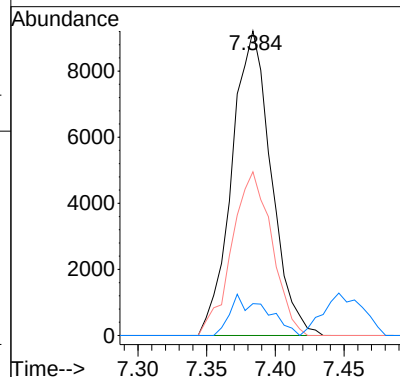
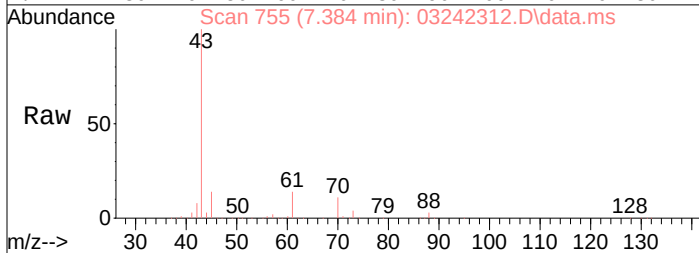
#30
Ethyl Acetate
Concen: 12.70 ng
RT: 7.38 min Scan# 755
Delta R.T. -0.011 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:30

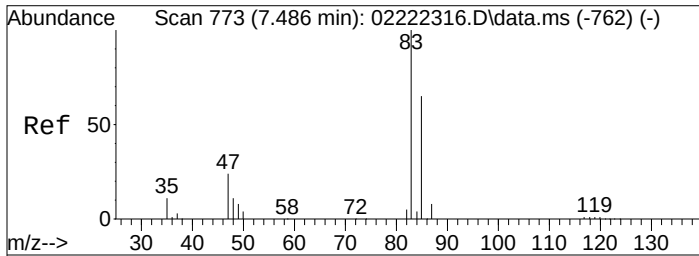
Tgt Ion: 61 Resp: 112942
Ion Ratio Lower Upper
61 100
70 81.4 65.6 105.6



#31
n-Hexane
Concen: 0.54 ng
RT: 7.38 min Scan# 755
Delta R.T. -0.006 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:30

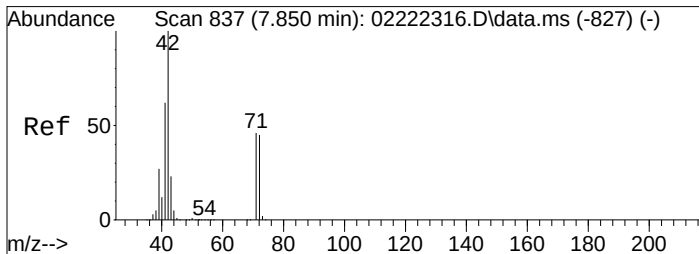
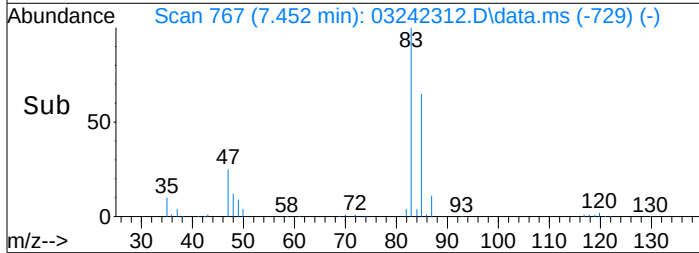
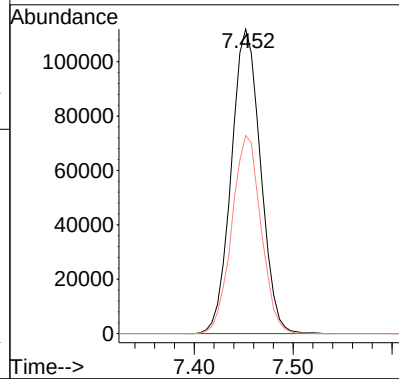
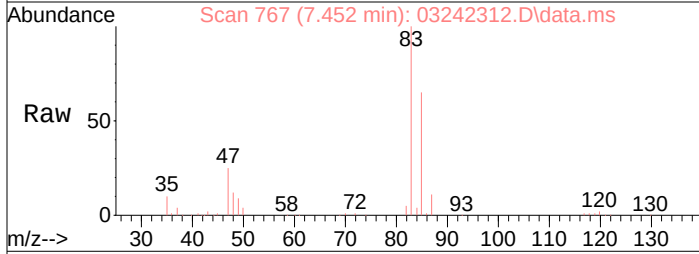
Tgt Ion: 57 Resp: 18365
Ion Ratio Lower Upper
57 100
56 54.7 44.0 66.0
86 12.3 11.5 17.3





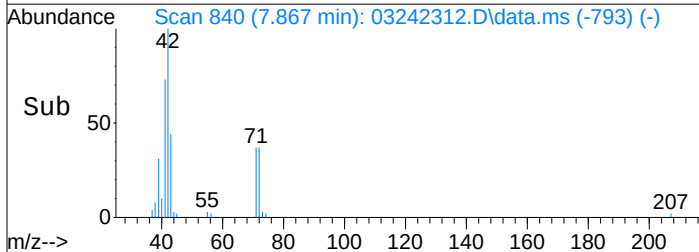
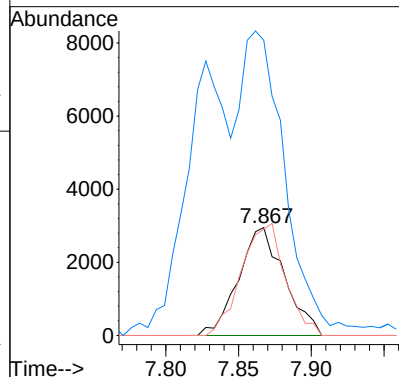
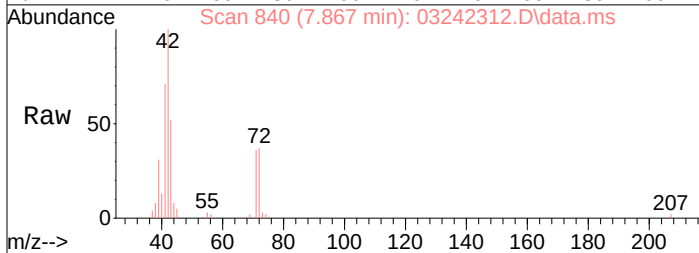
#32
Chloroform
Concen: 5.68 ng
RT: 7.45 min Scan# 767
Delta R.T. -0.034 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:30

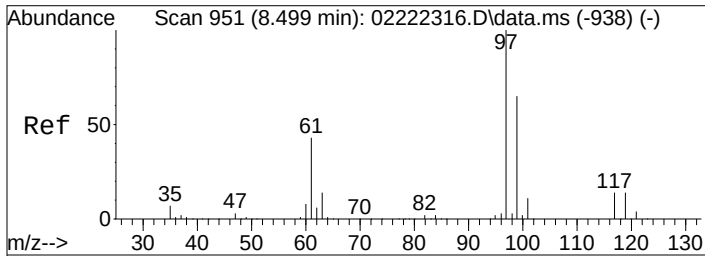
Tgt Ion: 83 Resp: 229910
Ion Ratio Lower Upper
83 100
85 65.1 45.0 85.0



#34
Tetrahydrofuran (THF)
Concen: 0.47 ng
RT: 7.87 min Scan# 840
Delta R.T. 0.017 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:30

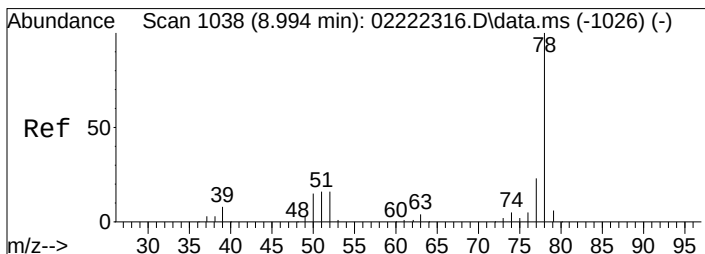
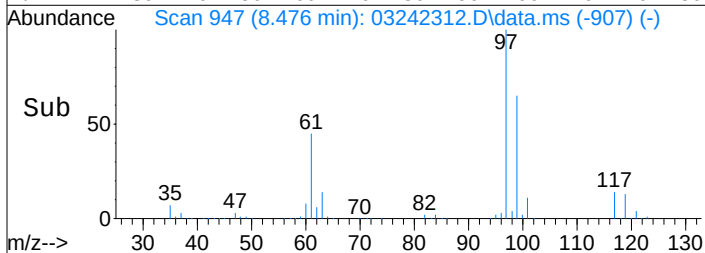
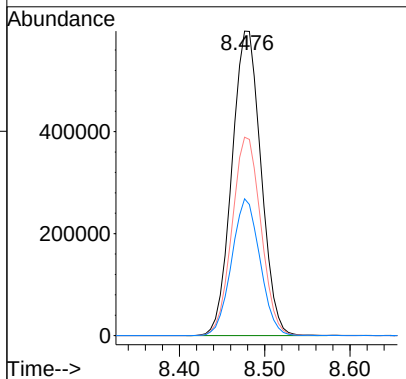
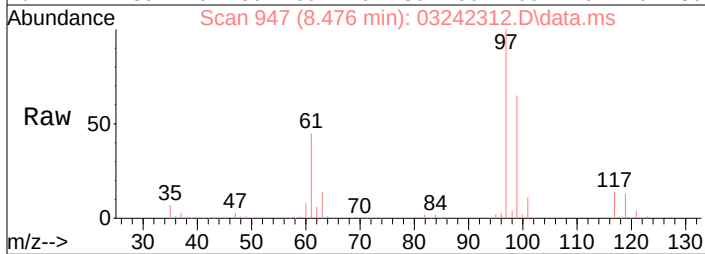
Tgt Ion: 72 Resp: 6490
Ion Ratio Lower Upper
72 100
71 98.8 79.8 119.8
42 284.2 199.0 239.0#





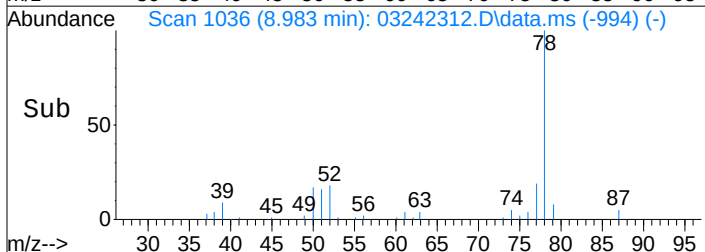
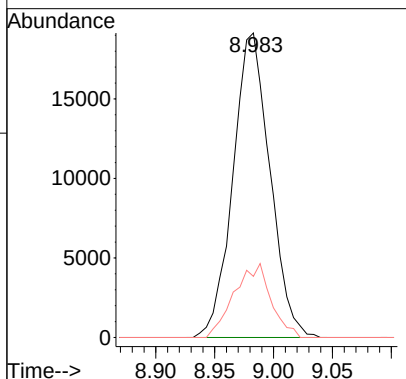
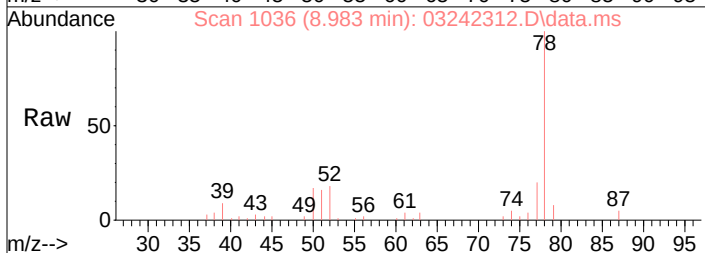
#38
 1,1,1-Trichloroethane
 Concen: 39.01 ng
 RT: 8.48 min Scan# 947
 Delta R.T. -0.023 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:30

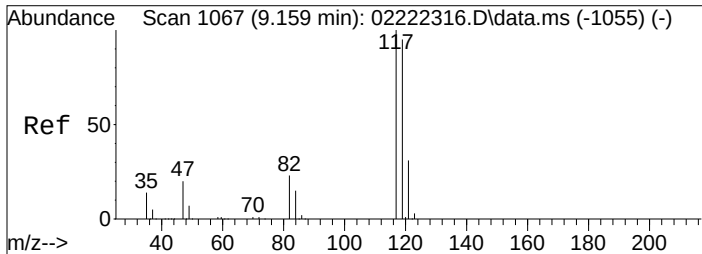
Tgt Ion: 97 Resp: 1415618
 Ion Ratio Lower Upper
 97 100
 99 64.8 44.9 84.9
 61 43.8 23.5 63.5



#41
 Benzene
 Concen: 0.49 ng
 RT: 8.98 min Scan# 1036
 Delta R.T. -0.011 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:30

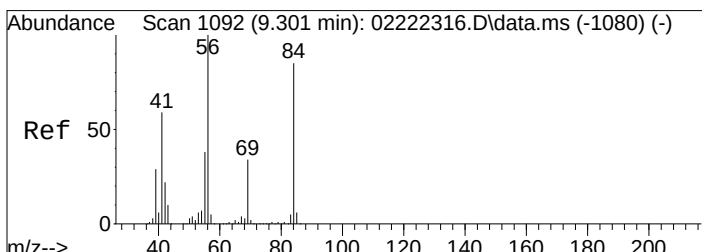
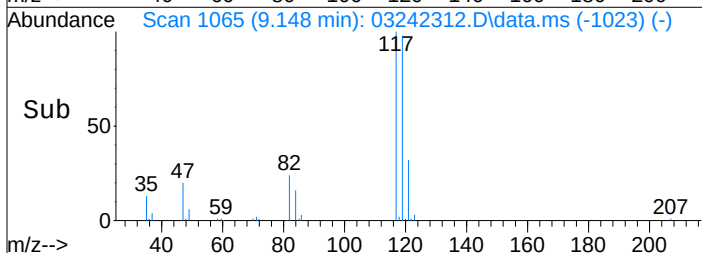
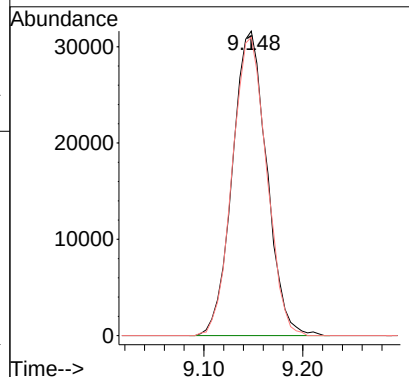
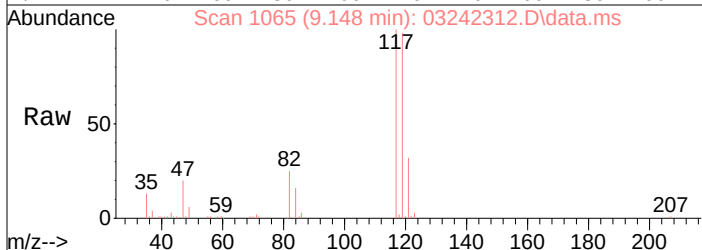
Tgt Ion: 78 Resp: 41813
 Ion Ratio Lower Upper
 78 100
 77 24.0 3.7 43.7





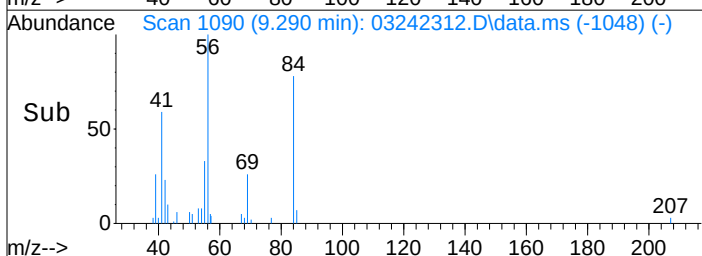
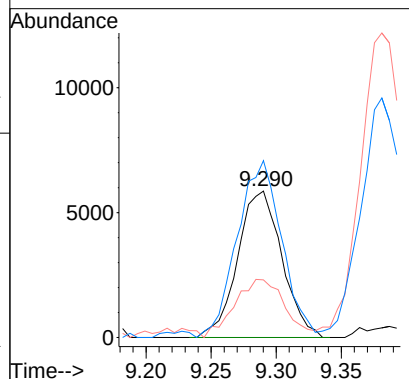
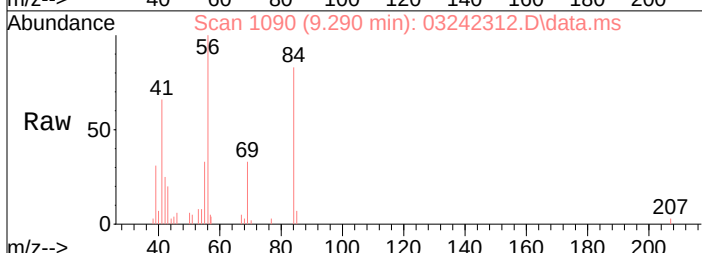
#42
Carbon Tetrachloride
Concen: 2.38 ng
RT: 9.15 min Scan# 1065
Delta R.T. -0.011 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:30

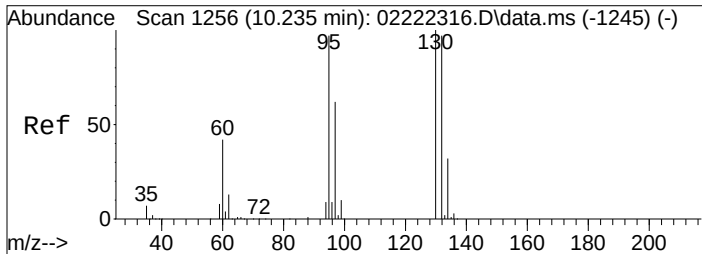
Tgt Ion:	117	Resp:	76203
Ion Ratio		Lower	Upper
117	100		
119	97.7	75.7	115.7



#43
Cyclohexane
Concen: 0.44 ng
RT: 9.29 min Scan# 1090
Delta R.T. -0.011 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:30

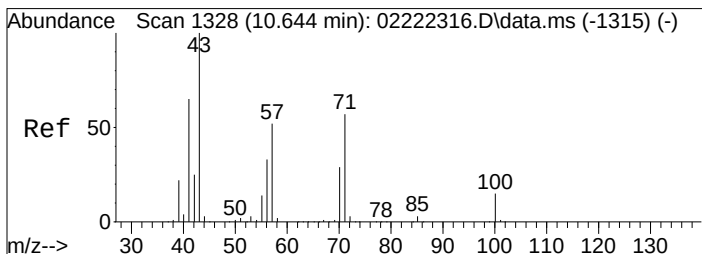
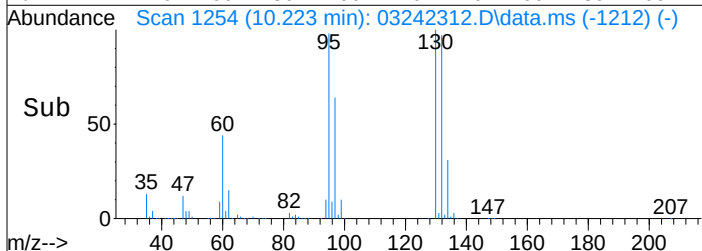
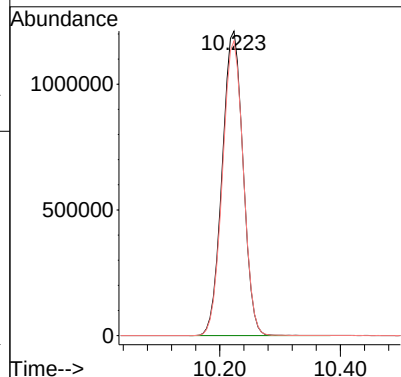
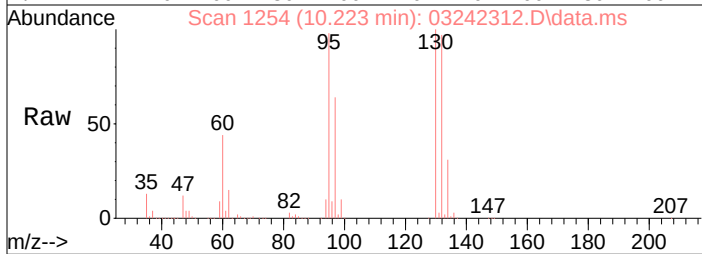
Tgt Ion:	84	Resp:	13871
Ion Ratio		Lower	Upper
84	100		
69	44.8	20.0	60.0
56	121.8	98.5	138.5





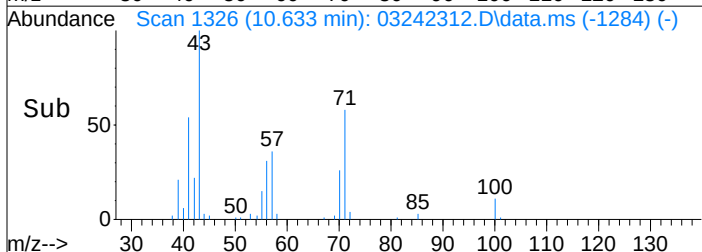
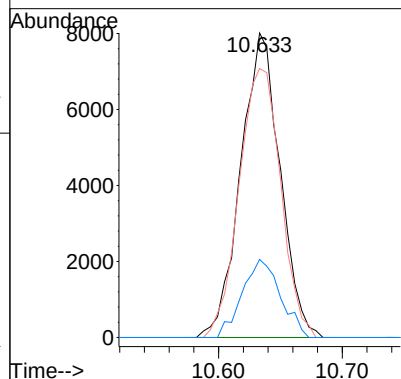
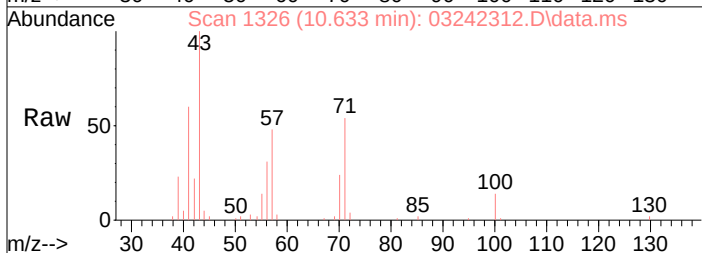
#47
 Trichloroethene
 Concen: 116.18 ng
 RT: 10.22 min Scan# 1254
 Delta R.T. -0.011 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:30

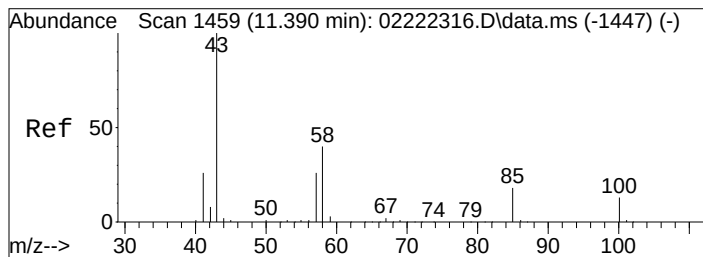
Tgt Ion: 130 Resp: 2903178
 Ion Ratio Lower Upper
 130 100
 132 96.9 76.3 116.3



#51
 n-Heptane
 Concen: 0.86 ng
 RT: 10.63 min Scan# 1326
 Delta R.T. -0.011 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:30

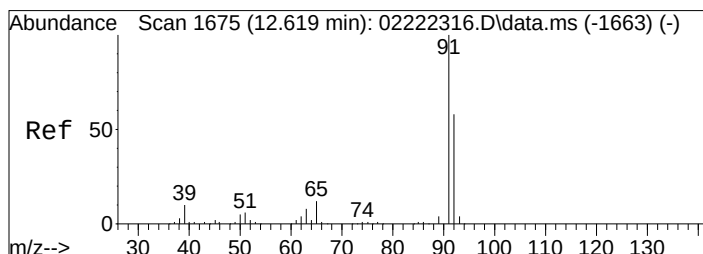
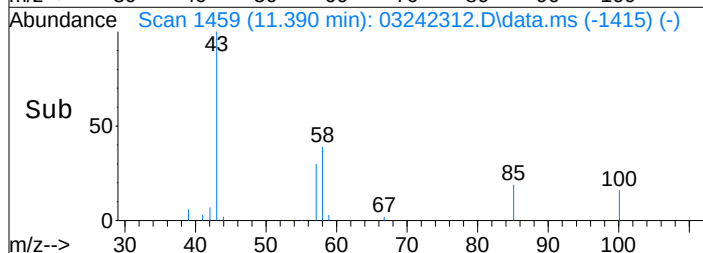
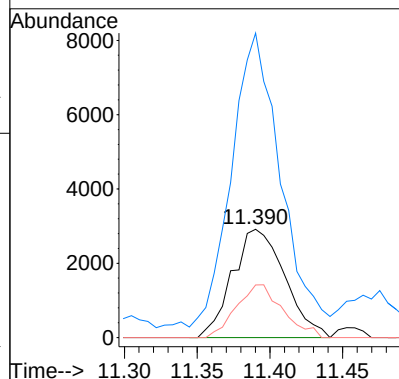
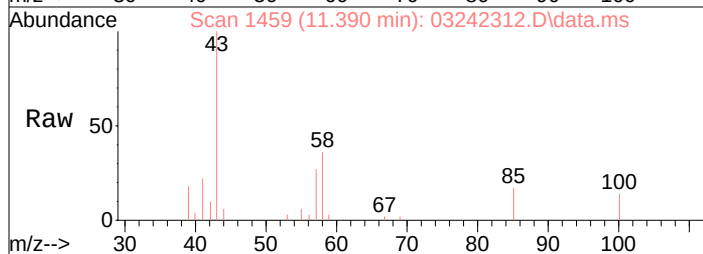
Tgt Ion: 71 Resp: 17734
 Ion Ratio Lower Upper
 71 100
 57 93.3 71.7 111.7
 100 24.9 5.8 45.8





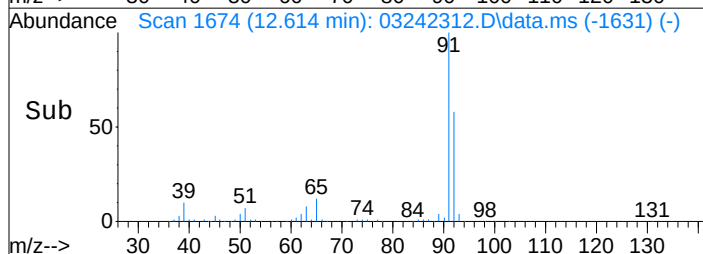
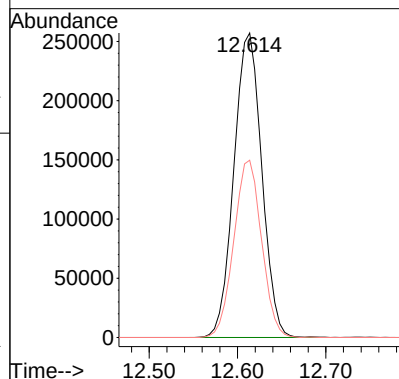
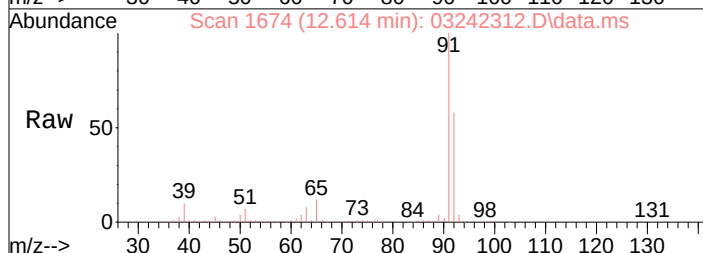
#53
 4-Methyl-2-pentanone
 Concen: 0.40 ng
 RT: 11.39 min Scan# 1459
 Delta R.T. 0.000 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:30

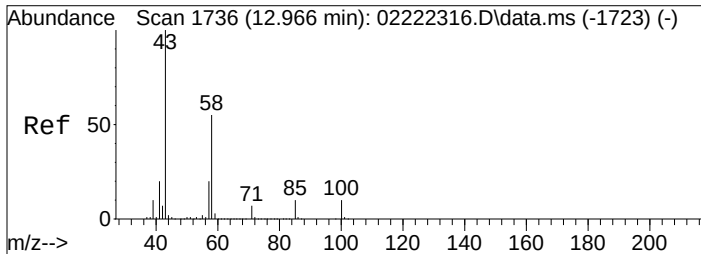
Tgt Ion: 58 Resp: 7297
 Ion Ratio Lower Upper
 58 100
 85 43.1 38.6 58.0
 43 266.6 202.2 303.2



#58
 Toluene
 Concen: 5.54 ng
 RT: 12.61 min Scan# 1674
 Delta R.T. -0.006 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:30

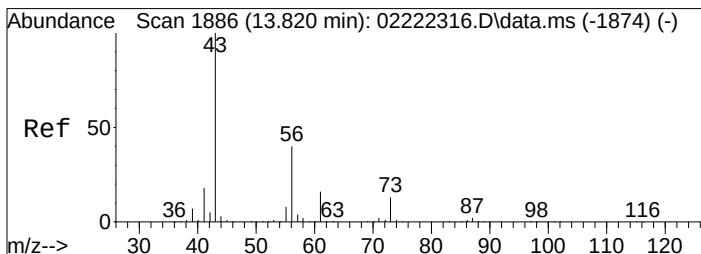
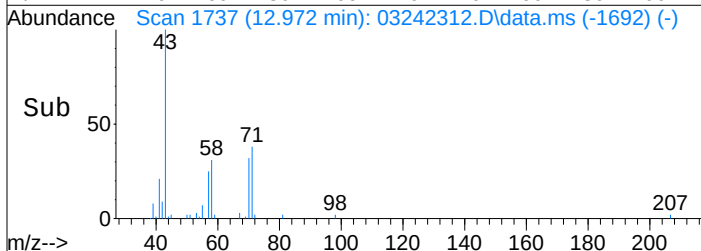
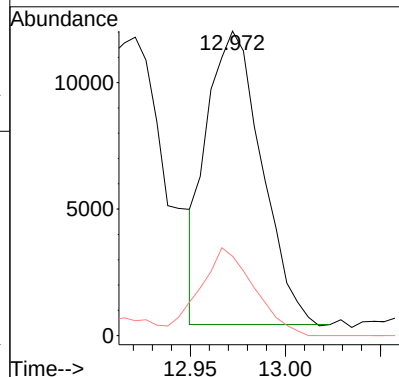
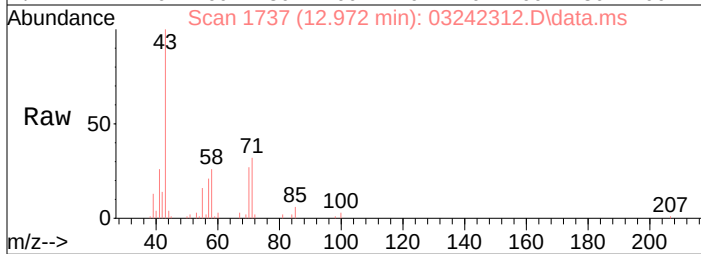
Tgt Ion: 91 Resp: 564230
 Ion Ratio Lower Upper
 91 100
 92 57.8 38.0 78.0





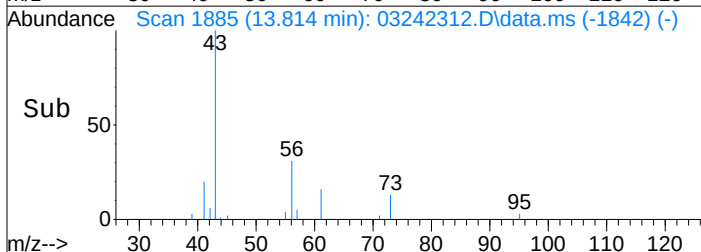
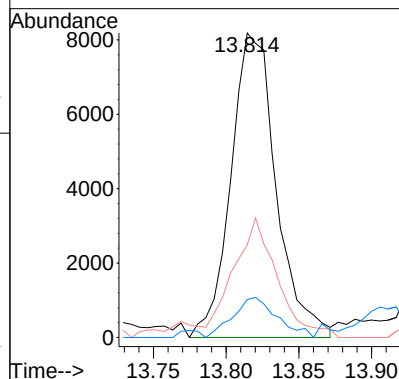
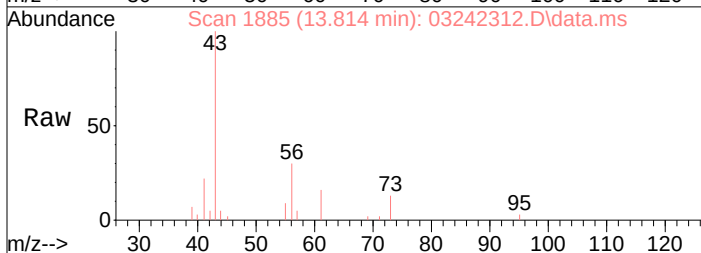
#59
2-Hexanone
Concen: 0.47 ng
RT: 12.97 min Scan# 1737
Delta R.T. 0.006 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:30

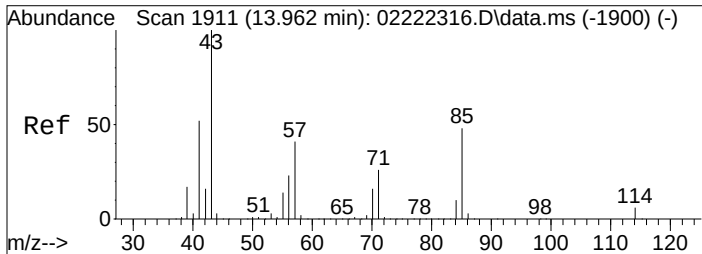
Tgt Ion: 43 Resp: 23313
Ion Ratio Lower Upper
43 100
58 29.5 34.5 74.5#



#62
n-Butyl Acetate
Concen: 0.31 ng
RT: 13.81 min Scan# 1885
Delta R.T. -0.006 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:30

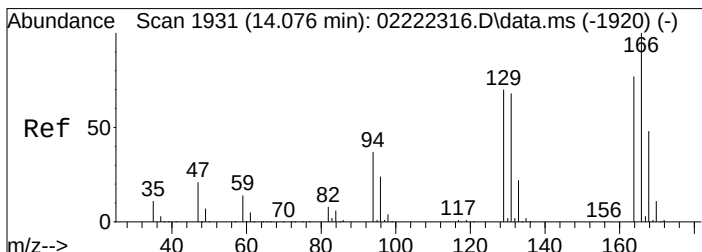
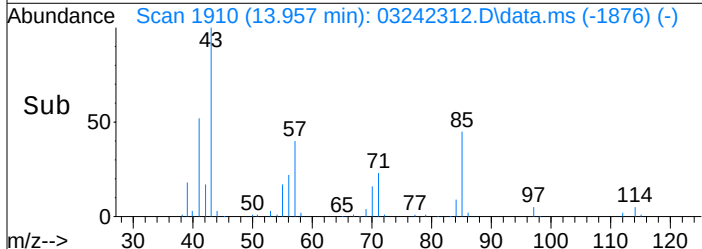
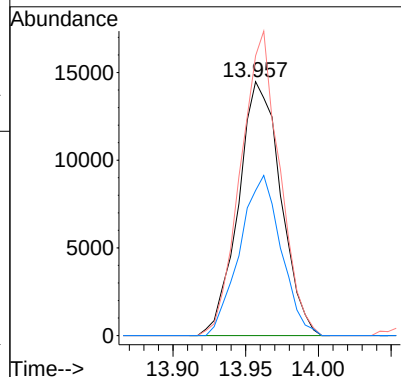
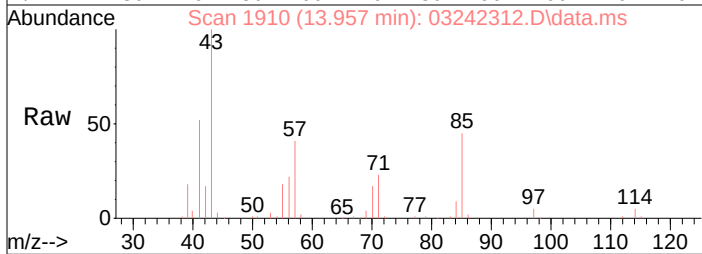
Tgt Ion: 43 Resp: 17703
Ion Ratio Lower Upper
43 100
56 37.9 20.0 60.0
73 12.7 0.0 33.2





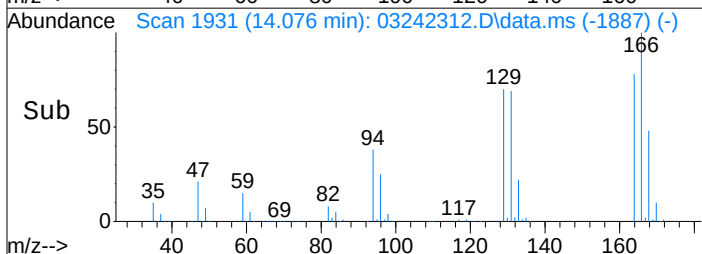
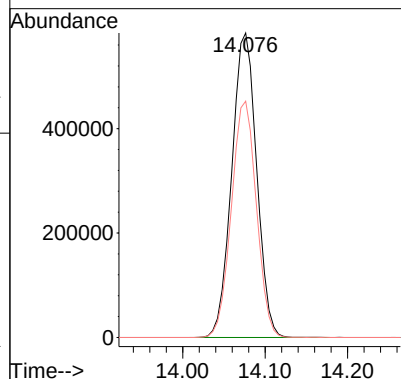
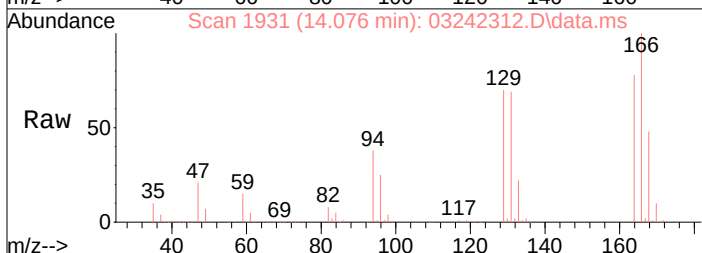
#63
n-Octane
Concen: 1.46 ng
RT: 13.96 min Scan# 1910
Delta R.T. -0.006 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:30

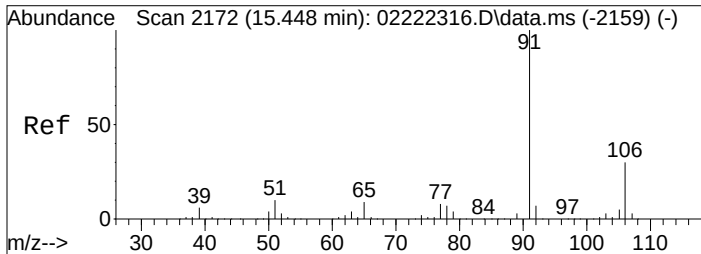
Tgt Ion:	57	Resp:	29340
Ion Ratio		Lower	Upper
57	100		
85	110.2	94.1	141.1
71	61.5	52.6	79.0



#64
Tetrachloroethene
Concen: 39.45 ng
RT: 14.08 min Scan# 1931
Delta R.T. 0.000 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:30

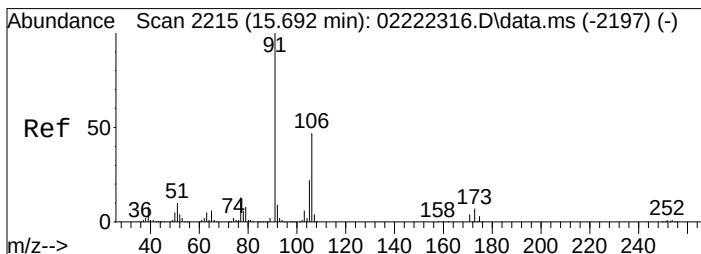
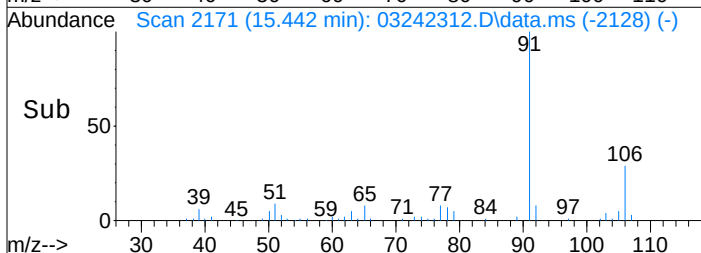
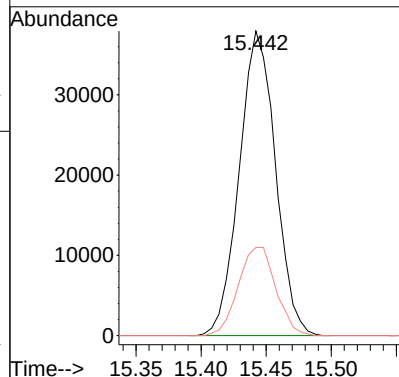
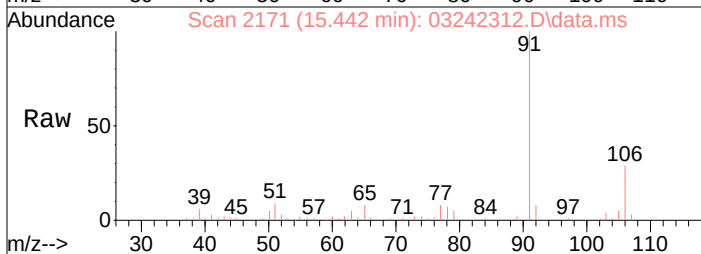
Tgt Ion:	166	Resp:	1223136
Ion Ratio		Lower	Upper
166	100		
164	77.9	57.3	97.3





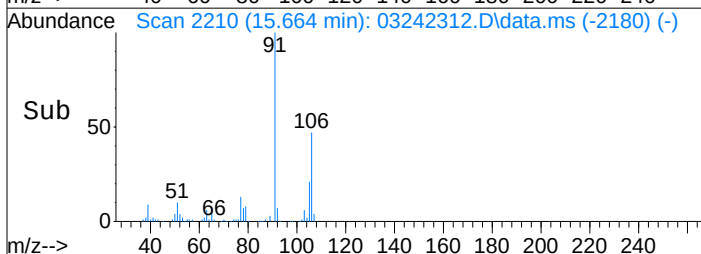
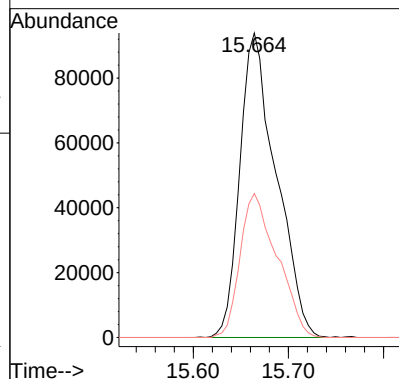
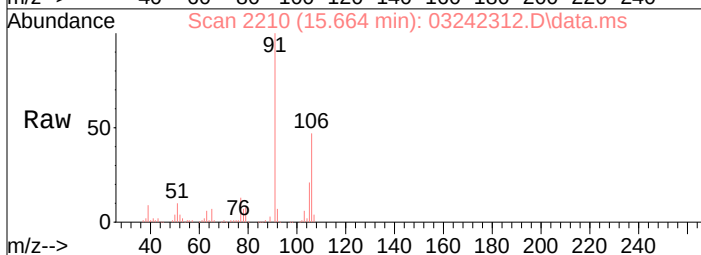
#66
Ethylbenzene
Concen: 0.60 ng
RT: 15.44 min Scan# 2171
Delta R.T. -0.006 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:30

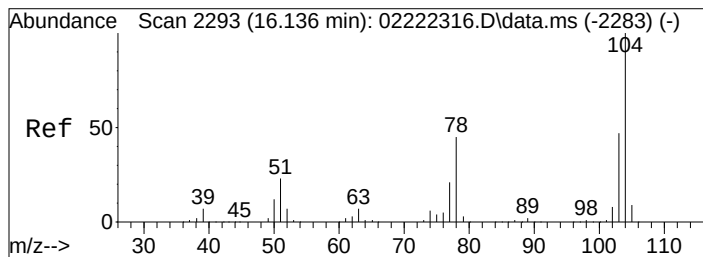
Tgt Ion: 91 Resp: 73333
Ion Ratio Lower Upper
91 100
106 30.1 10.4 50.4



#67
m- & p-Xylenes
Concen: 2.54 ng
RT: 15.66 min Scan# 2210
Delta R.T. -0.028 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:30

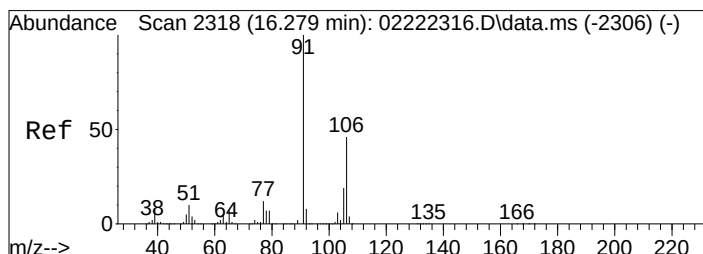
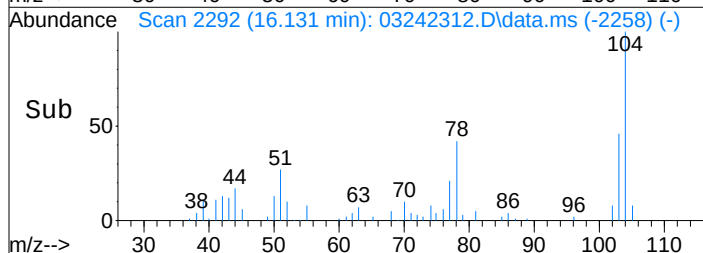
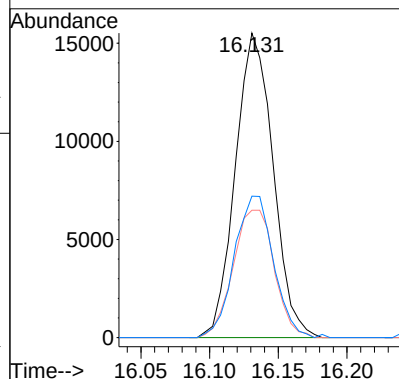
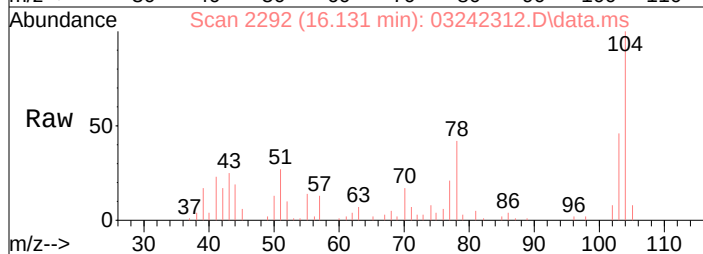
Tgt Ion: 91 Resp: 248969
Ion Ratio Lower Upper
91 100
106 48.3 26.2 66.2





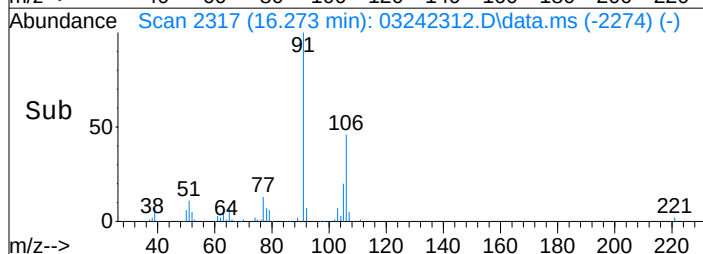
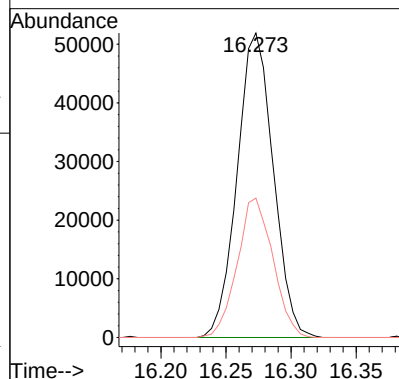
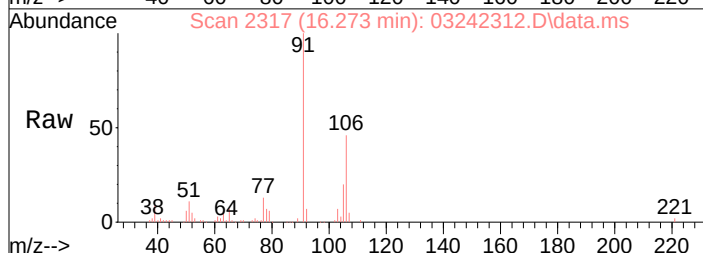
#69
Styrene
Concen: 0.44 ng
RT: 16.13 min Scan# 2292
Delta R.T. -0.006 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:30

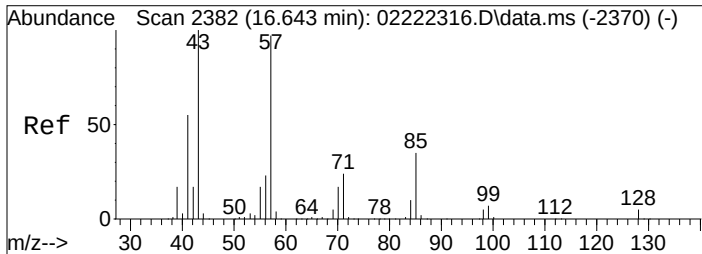
Tgt Ion:	104	Resp:	29690
Ion Ratio		Lower	Upper
104	100		
78	45.6	24.7	64.7
103	48.3	27.8	67.8



#70
o-Xylene
Concen: 1.07 ng
RT: 16.27 min Scan# 2317
Delta R.T. -0.006 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:30

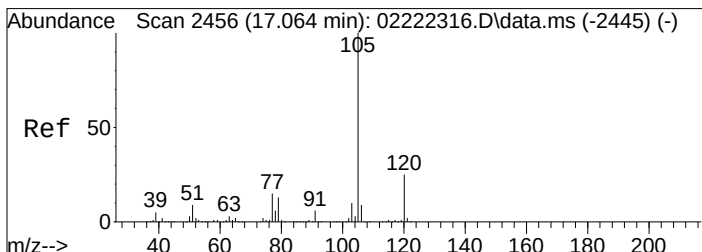
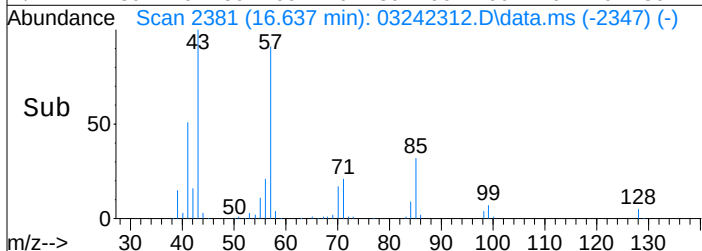
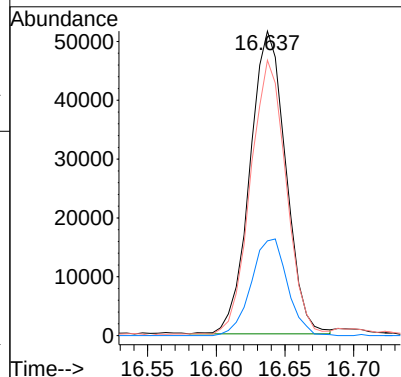
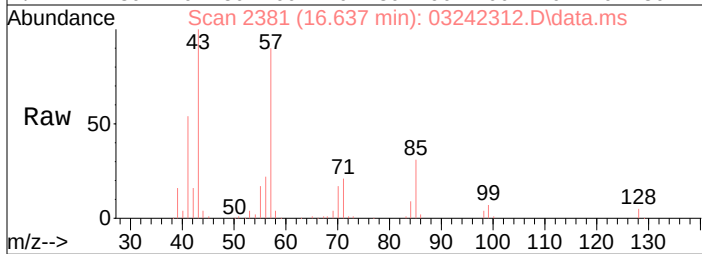
Tgt Ion:	91	Resp:	100226
Ion Ratio		Lower	Upper
91	100		
106	45.2	25.4	65.4





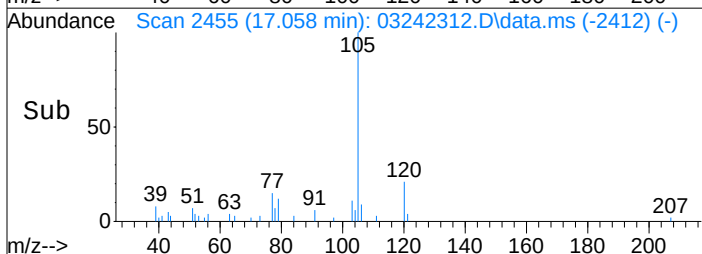
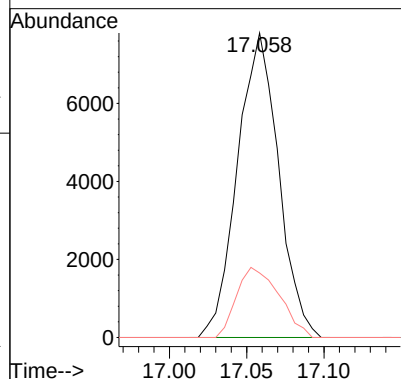
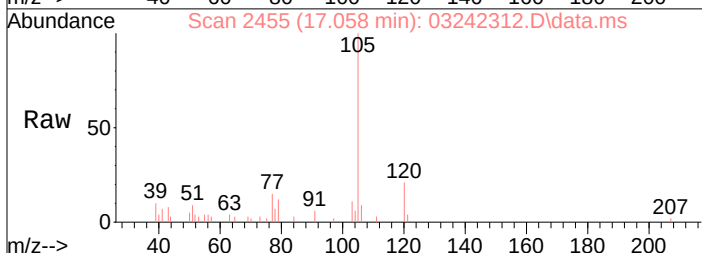
#71
n-Nonane
Concen: 2.07 ng
RT: 16.64 min Scan# 2381
Delta R.T. -0.006 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:30

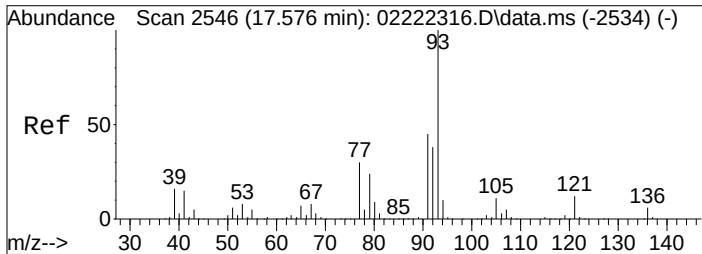
Tgt Ion:	43	Resp:	93544
Ion Ratio		Lower	Upper
43	100		
57	91.5	74.2	114.2
85	32.2	14.2	54.2



#74
Cumene
Concen: 0.13 ng
RT: 17.06 min Scan# 2455
Delta R.T. -0.006 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:30

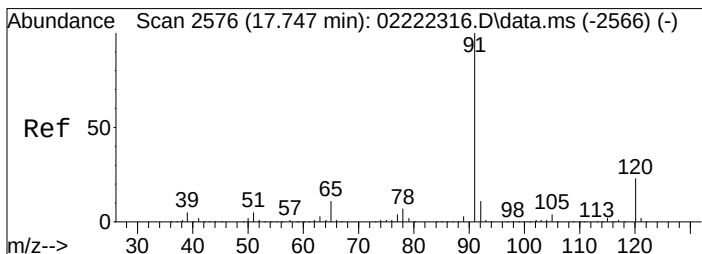
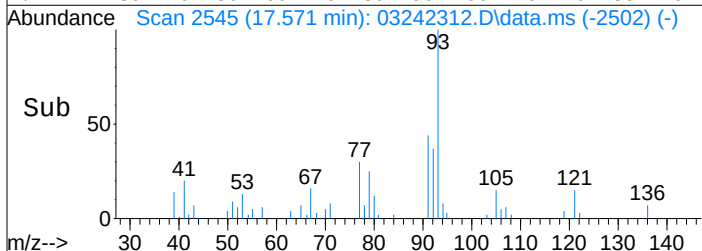
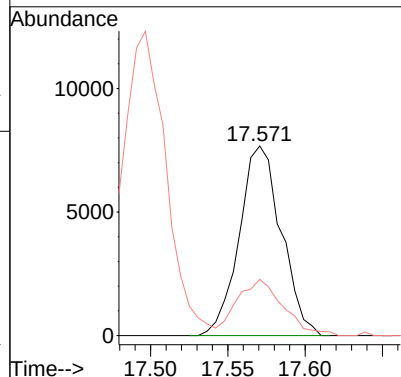
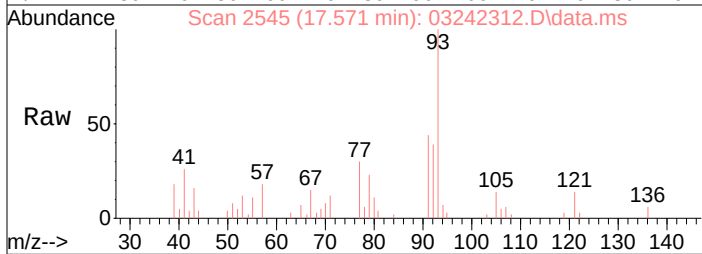
Tgt Ion:	105	Resp:	14445
Ion Ratio		Lower	Upper
105	100		
120	23.9	5.2	45.2





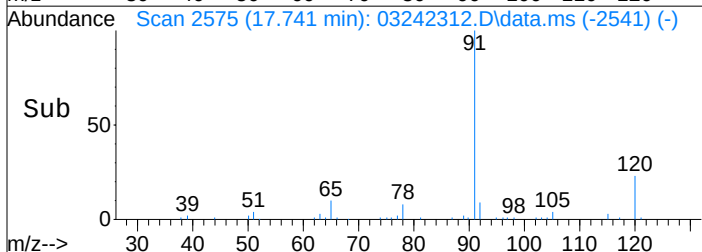
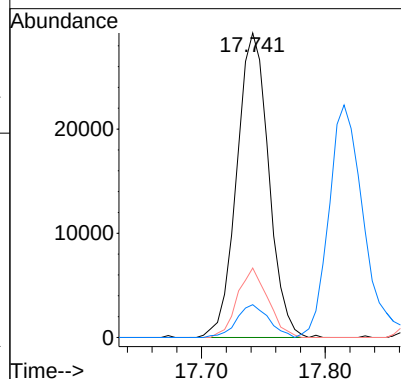
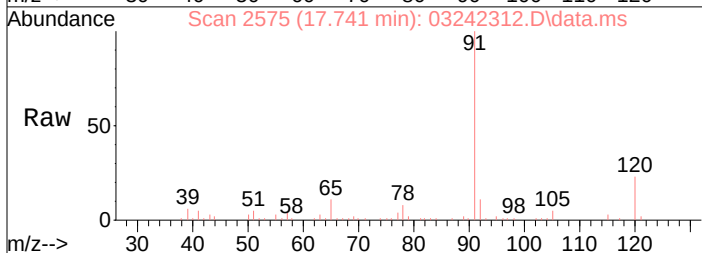
#75
 alpha-Pinene
 Concen: 0.28 ng
 RT: 17.57 min Scan# 2545
 Delta R.T. -0.006 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:30

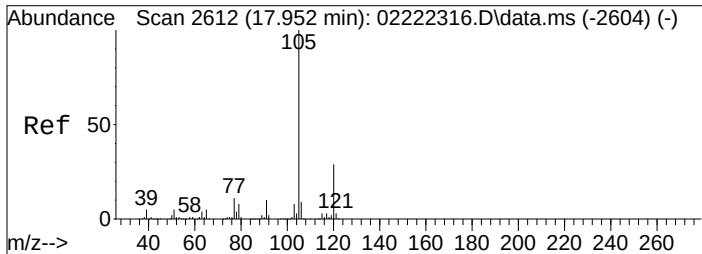
Tgt Ion:	93	Resp:	14554
Ion Ratio	Lower	Upper	
93	100		
77	32.5	11.1	51.1



#76
 n-Propylbenzene
 Concen: 0.39 ng
 RT: 17.74 min Scan# 2575
 Delta R.T. -0.006 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:30

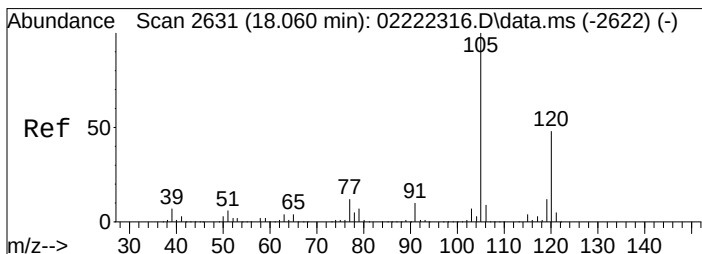
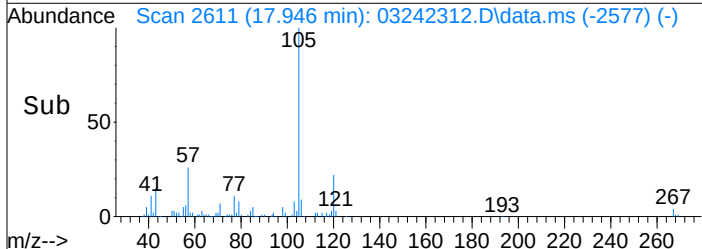
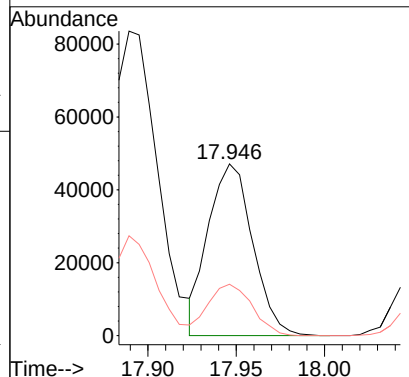
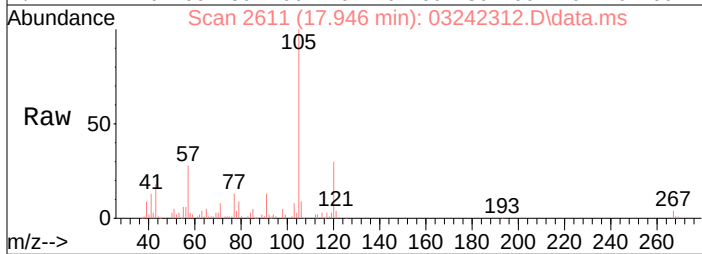
Tgt Ion:	91	Resp:	52524
Ion Ratio	Lower	Upper	
91	100		
120	21.8	2.7	42.7
65	10.9	0.0	30.7





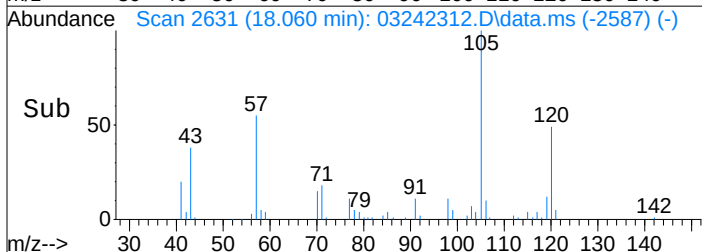
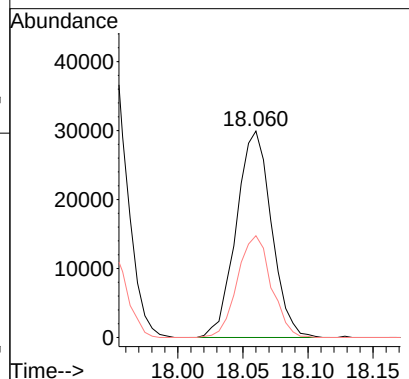
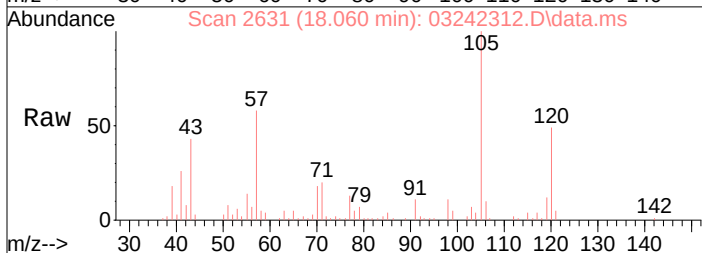
#78
 4-Ethyltoluene
 Concen: 0.76 ng
 RT: 17.95 min Scan# 2611
 Delta R.T. -0.006 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:30

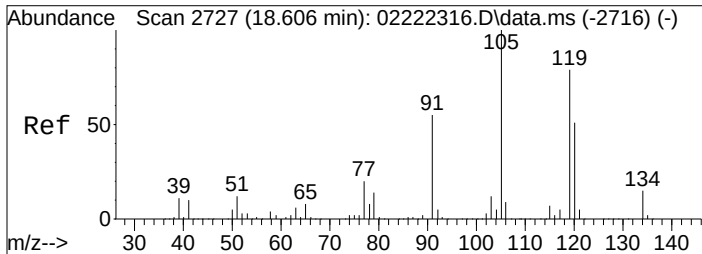
Tgt Ion:	105	Resp:	82478
Ion Ratio		Lower	Upper
105	100		
120	29.6	9.1	49.1



#79
 1,3,5-Trimethylbenzene
 Concen: 0.58 ng
 RT: 18.06 min Scan# 2631
 Delta R.T. 0.000 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:30

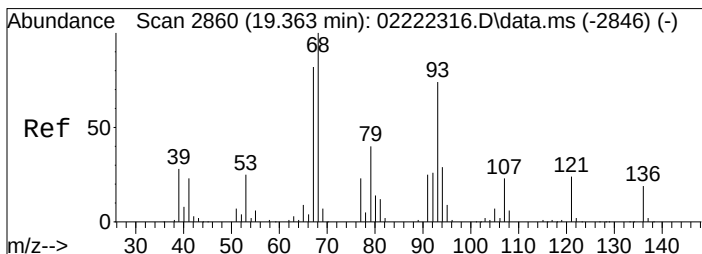
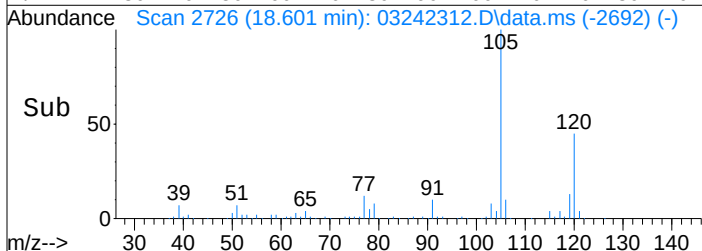
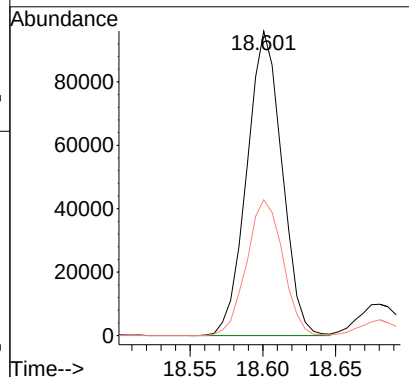
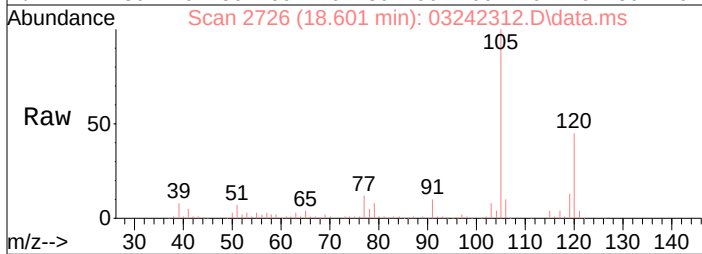
Tgt Ion:	105	Resp:	56426
Ion Ratio		Lower	Upper
105	100		
120	47.3	28.4	68.4





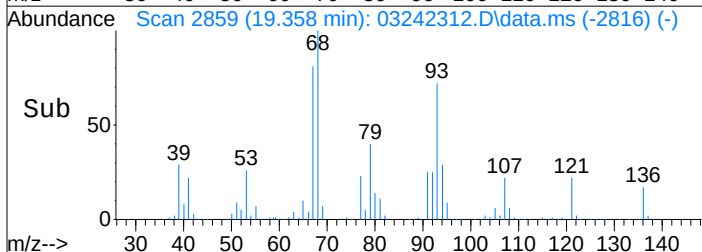
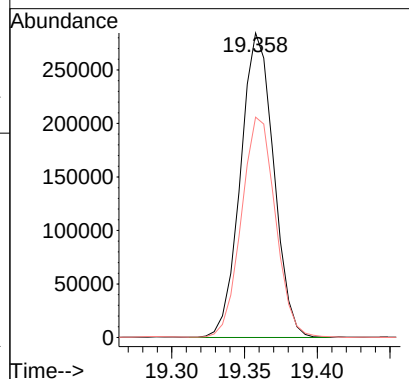
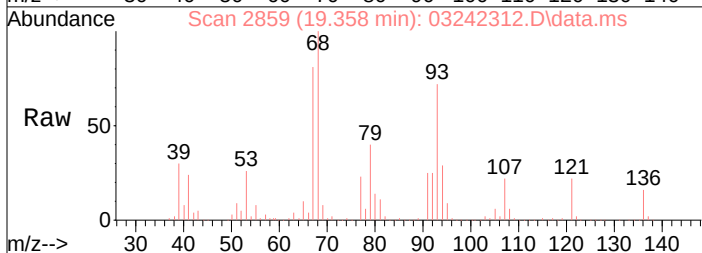
#82
 1,2,4-Trimethylbenzene
 Concen: 1.69 ng
 RT: 18.60 min Scan# 2726
 Delta R.T. -0.006 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:30

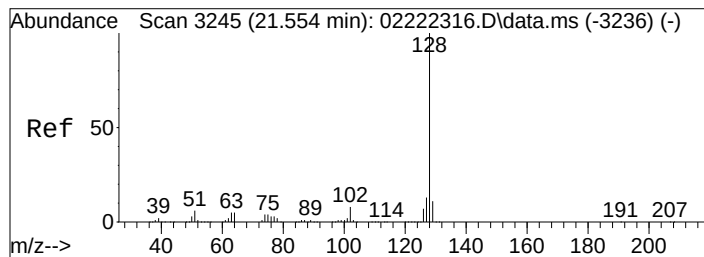
Tgt Ion:	105	Resp:	161116
Ion Ratio		Lower	Upper
105	100		
120	45.9	32.8	72.8



#91
 d-Limonene
 Concen: 14.04 ng
 RT: 19.36 min Scan# 2859
 Delta R.T. -0.006 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:30

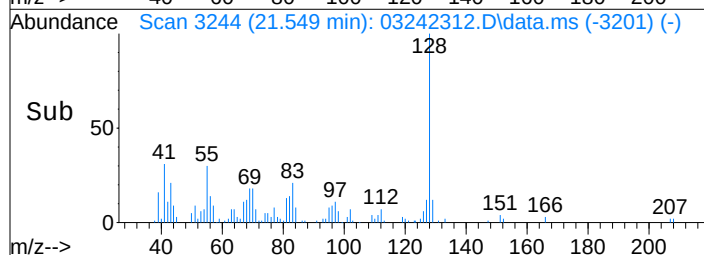
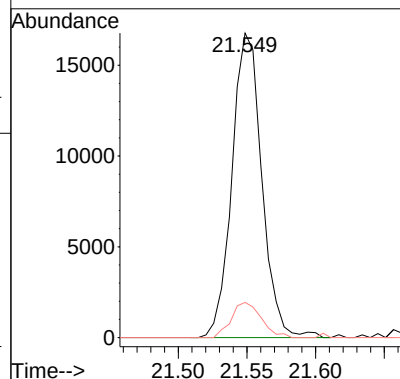
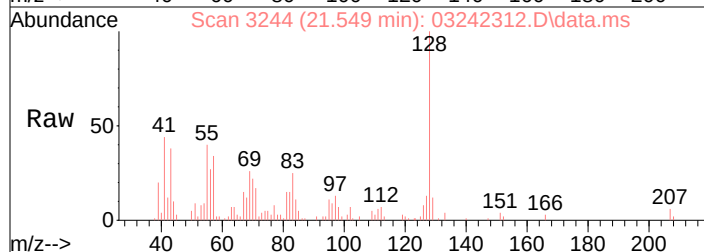
Tgt Ion:	68	Resp:	451743
Ion Ratio		Lower	Upper
68	100		
93	74.2	54.8	94.8





#95
 Naphthalene
 Concen: 0.25 ng
 RT: 21.55 min Scan# 3244
 Delta R.T. -0.006 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:30

Tgt Ion:128 Resp: 25316
 Ion Ratio Lower Upper
 128 100
 129 11.6 0.0 30.9



Data File : I:\MS13\DATA\2023_03\24\03242312.D
 Acq On : 24 Mar 2023 12:30
 Sample : P2301250-010 (1000mL)
 Misc : S35-01202301

Vial: 3
 Operator: TZ
 Inst : MS13

TZ 3/28/23

Quant Time: Mar 28 09:43:49 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.33	130	251587	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	9.38	114	1096437	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	14.88	54	208150	12.500	ng	0.00

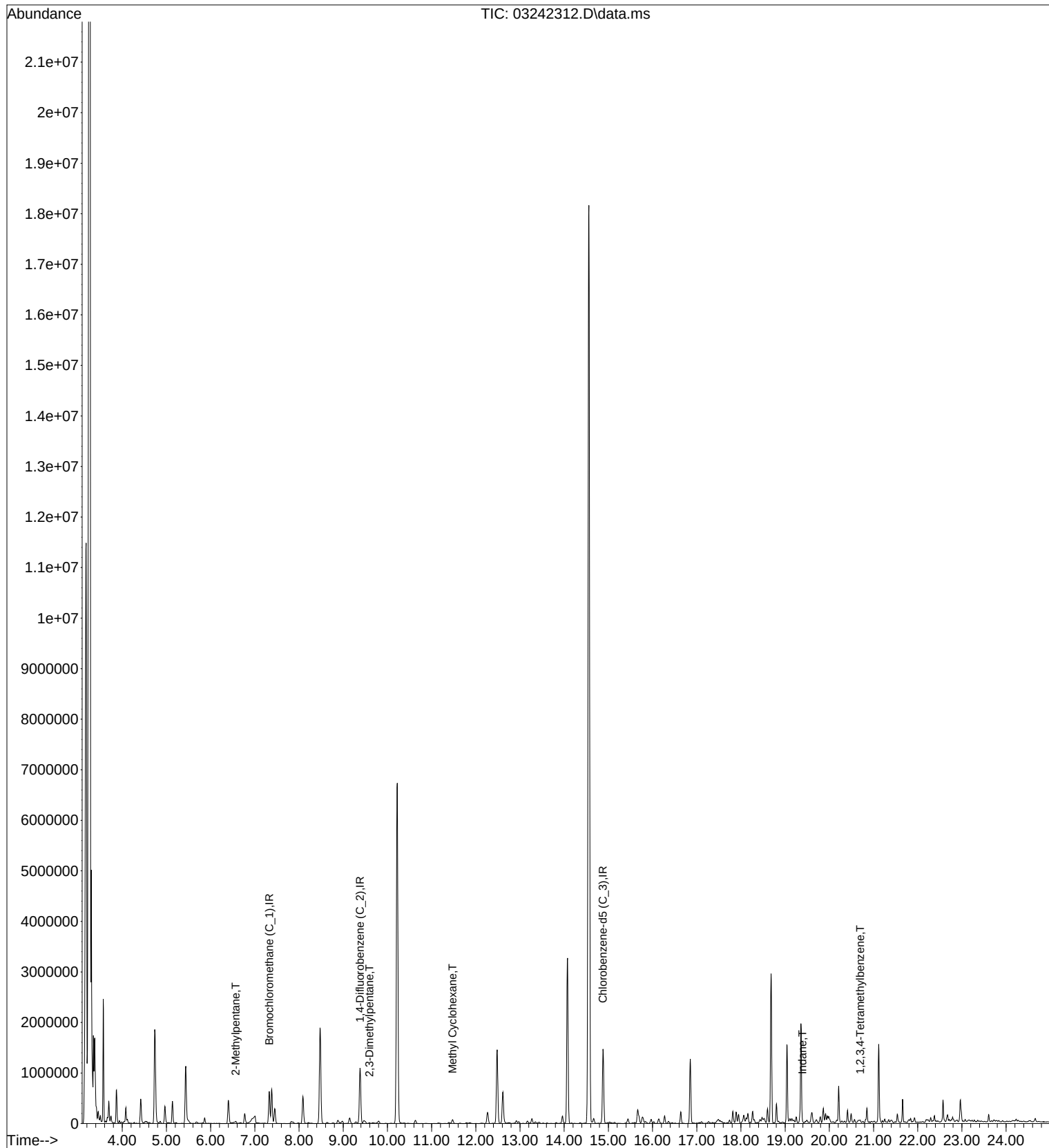
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	0.00	85	0	N.D.	d	
3) 1,1,1,2-Tetrafluoroeth...	0.00	83	0	N.D.	d	
4) 1,1-Difluoroethane	0.00	65	0	N.D.	d	
5) Chlorodifluoromethane ...	0.00	67	0	N.D.	d	
6) 1-Chloro-1,1-Difluoroe...	3.62	65	2081	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	0.00	43	0	N.D.	d	
12) 2-Methylpentane	6.57	71	9516	0.541	ng	# 1
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	0.00	84	0	N.D.	d	
17) 2,3-Dimethylpentane	9.59	56	9397	0.291	ng	# 76
18) Dibromomethane	9.86	174	461	N.D.		
20) Methyl Cyclohexane	11.48	55	32441	0.936	ng	85
21) 1,3-Dichloropropane	12.61	76	3043	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	15.23	91	110	N.D.		
24) 1,2,3-Trichloropropane	16.43	75	111	N.D.		
25) Bromobenzene	17.06	77	2626	N.D.		
26) 2-Chlorotoluene	0.00	91	0	N.D.	d	
27) 4-Chlorotoluene	0.00	91	0	N.D.	d	
28) Indane	19.39	117	15225	0.145	ng	# 69
29) Indene	19.51	115	1772	N.D.		
30) 1,2,4,5-Tetramethylben...	20.64	119	8601	N.D.		
31) 1,2,3,4-Tetramethylben...	20.70	119	12305	0.115	ng	100
32) 1,2,3,5-Tetramethylben...	0.00	119	0	N.D.	d	
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242312.D
Acq On : 24 Mar 2023 12:30
Sample : P2301250-010 (1000mL)
Misc : S35-01202301

Vial: 3
Operator: TZ
Inst : MS13

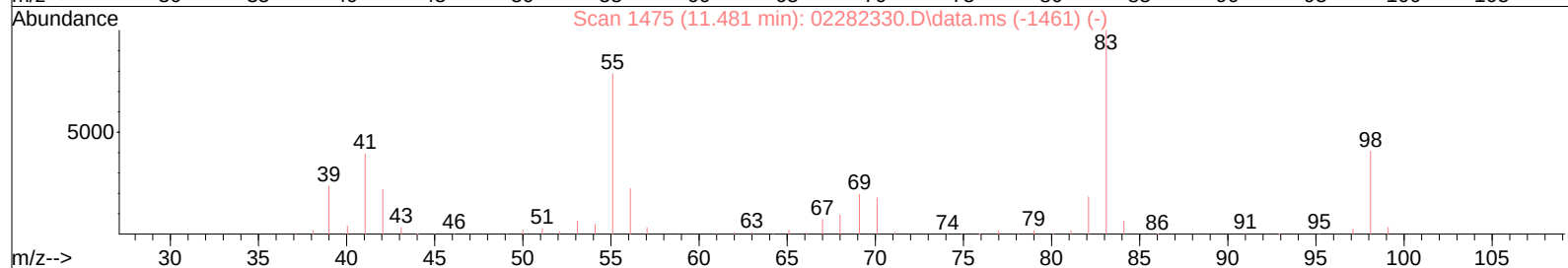
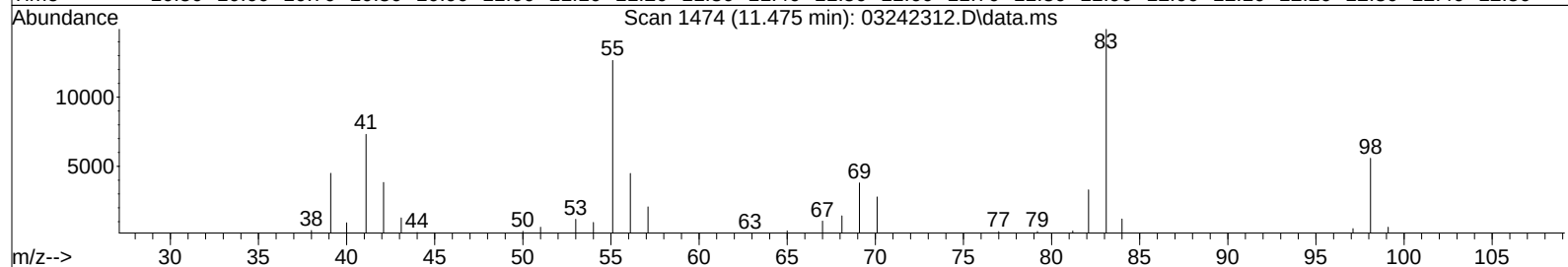
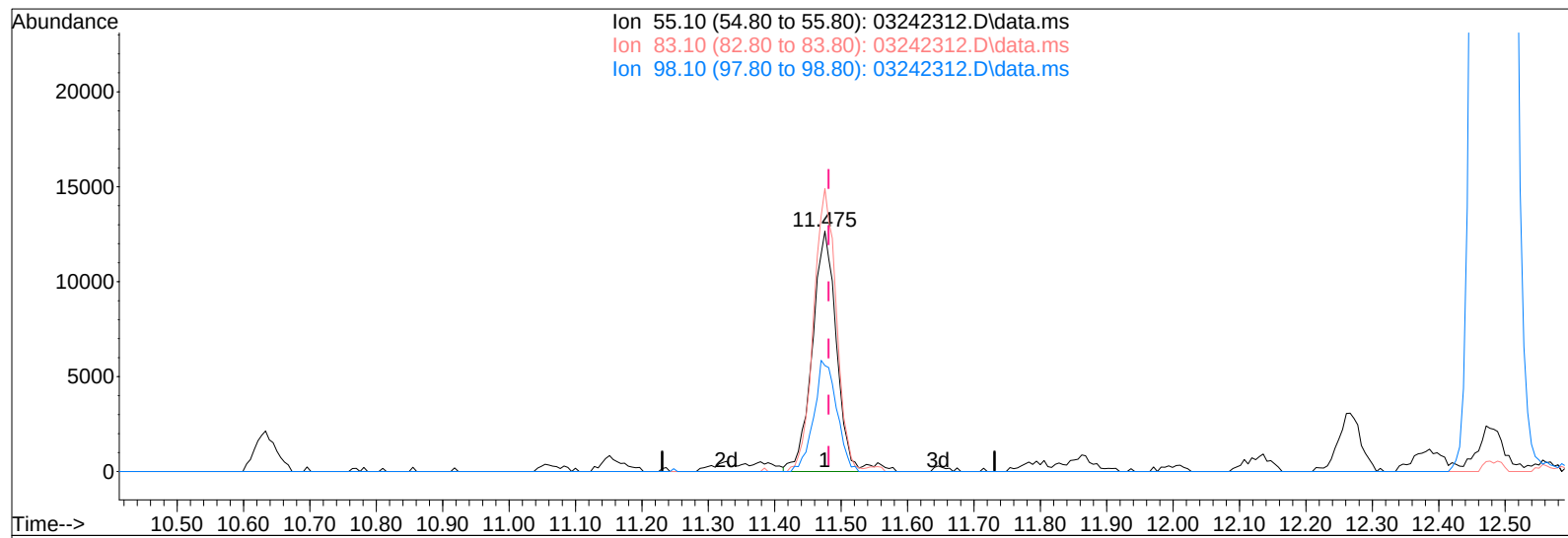
Quant Time: Mar 28 09:43:49 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242312.D
Acq On : 24 Mar 2023 12:30
Sample : P2301250-010 (1000mL)
Misc : S35-01202301

Vial: 3
Operator: TZ
Inst : MS13

Quant Time: Mar 27 16:04:07 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03242312.D\data.ms

(20) Methyl Cyclohexane (T)

11.475min (-0.006) 0.94ng

response 32441

Ion	Exp%	Act%
55.10	100	100
83.10	128.30	110.46
98.10	53.10	43.45
0.00	0.00	0.00

Data File : I:\MS13\DATA\2023_03\24\03242315.D
 Acq On : 24 Mar 2023 14:21
 Sample : P2301250-010dil (100mL)
 Misc : S35-01202301

Vial: 3
 Operator: TZ
 Inst : MS13

TZ 3/27/23

Quant Time: Mar 27 11:58:49 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	246688	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.37	114	1068381	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.88	54	199092	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	411911	12.582	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	100.64%
57) Toluene-d8 (SS2)	12.48	98	1202590	11.745	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.00%
73) Bromofluorobenzene (SS3)	16.85	174	452812	12.075	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	96.56%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	3.46	85	6231	0.138	ng	97
4) Chloromethane	3.63	50	426	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	4.39	45	64732	3.695	ng	99
11) Acetonitrile	4.58	41	666	N.D.		
12) Acrolein	4.66	56	441	N.D.		
13) Acetone	4.74	58	68176	4.559	ng	98
14) Trichlorofluoromethane	4.87	101	2255	0.055	ng	85
15) 2-Propanol (Isopropanol)	4.94	45	50435	0.836	ng	96
16) Acrylonitrile	5.15	53	498	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.45	84	7131	0.325	ng	87
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	5.69	151	694	N.D.		
22) Carbon Disulfide	5.73	76	7992	0.092	ng	95
23) trans-1,2-Dichloroethene	6.16	61	118	N.D.		
24) 1,1-Dichloroethane	6.40	63	1385	N.D.		
25) Methyl tert-Butyl Ether	6.47	73	185	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone (MEK)	6.77	72	5372	0.405	ng	95
28) cis-1,2-Dichloroethene	7.17	61	246	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	7.38	61	11160	1.279	ng	94
31) n-Hexane	0.00	57	0	N.D.	d	
32) Chloroform	7.44	83	22878	0.576	ng	98
34) Tetrahydrofuran (THF)	7.86	72	971	0.071	ng	# 21
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.08	62	203	N.D.		
38) 1,1,1-Trichloroethane	8.47	97	139575	3.947	ng	99
39) Isopropyl Acetate	9.38	61	29017	No Calib		
40) 1-Butanol	8.91	56	4555	No Calib	#	
41) Benzene	8.97	78	4666	0.056	ng	98
42) Carbon Tetrachloride	9.14	117	7583	0.243	ng	98
43) Cyclohexane	9.28	84	1412	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.	d	
47) Trichloroethene	10.21	130	292544	12.015	ng	99
48) 1,4-Dioxane	10.23	88	769	N.D.		
49) 2,2,4-Trimethylpentane...	10.29	57	179	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS13\DATA\2023_03\24\03242315.D
 Acq On : 24 Mar 2023 14:21
 Sample : P2301250-010dil (100mL)
 Misc : S35-01202301

Vial: 3
 Operator: TZ
 Inst : MS13

Quant Time: Mar 27 11:58:49 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

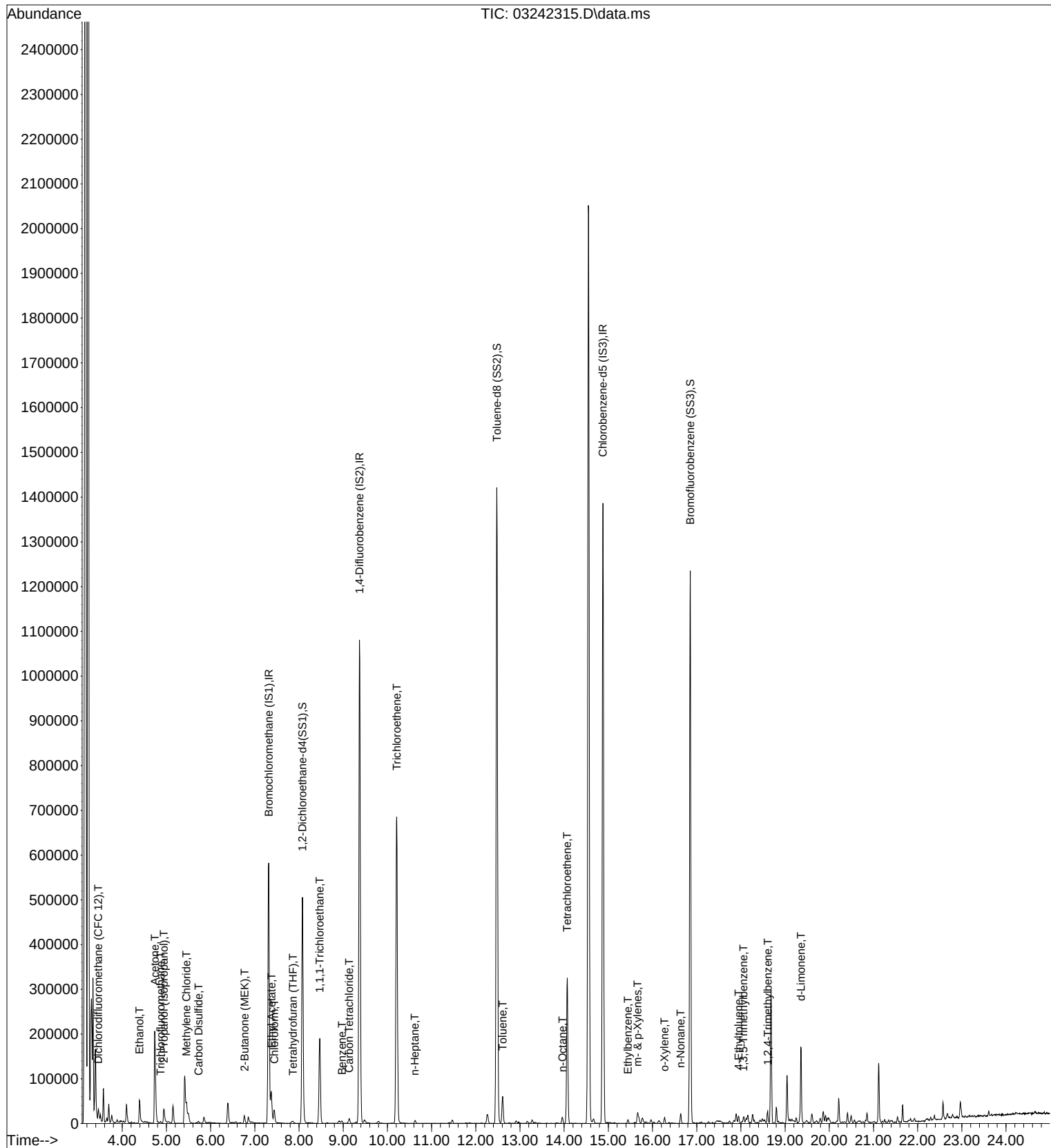
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.62	71	1747	0.087	ng	90
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.40	58	572	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.61	91	54173	0.556	ng	100
59) 2-Hexanone	12.97	43	447	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.83	43	1813	N.D.		
63) n-Octane	13.96	57	2615	0.136	ng	96
64) Tetrachloroethene	14.07	166	121809	4.108	ng	99
65) Chlorobenzene	14.94	112	125	N.D.		
66) Ethylbenzene	15.44	91	6740	0.058	ng	97
67) m- & p-Xylenes	15.66	91	24009	0.257	ng	98
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.14	104	2656	N.D.		
70) o-Xylene	16.27	91	9547	0.107	ng	100
71) n-Nonane	16.64	43	9127	0.211	ng	93
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	17.06	105	1483	N.D.		
75) alpha-Pinene	17.57	93	1356	N.D.		
76) n-Propylbenzene	17.74	91	5360	N.D.		
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	8285	0.079	ng	95
79) 1,3,5-Trimethylbenzene	18.05	105	5410	0.059	ng	95
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.61	105	15174	0.167	ng	86
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	18.78	146	270	N.D.		
86) 1,4-Dichlorobenzene	18.86	146	371	N.D.		
87) sec-Butylbenzene	18.95	105	535	N.D.		
88) 4-Isopropyltoluene (p-...	19.18	119	2455	N.D.		
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.30	146	206	N.D.		
91) d-Limonene	19.36	68	38744	1.259	ng	100
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.26	58	710	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	492	N.D.		
95) Naphthalene	21.55	128	3245	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	21.98	225	189	N.D.		
98) Cyclohexanone	15.76	55	1187	No Calib	#	
99) tert-Butylbenzene	18.61	119	2145	N.D.		
100) n-Butylbenzene	19.70	91	1369	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242315.D
Acq On : 24 Mar 2023 14:21
Sample : P2301250-010dil (100mL)
Misc : S35-01202301

Vial: 3
Operator: TZ
Inst : MS13

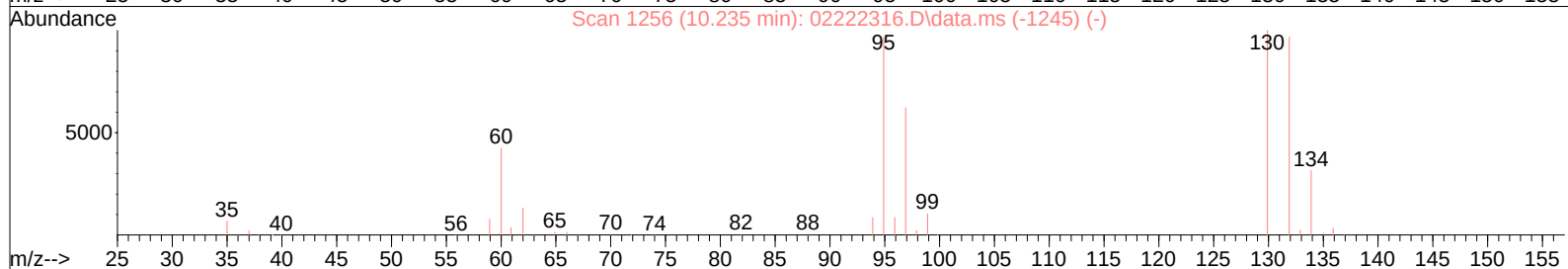
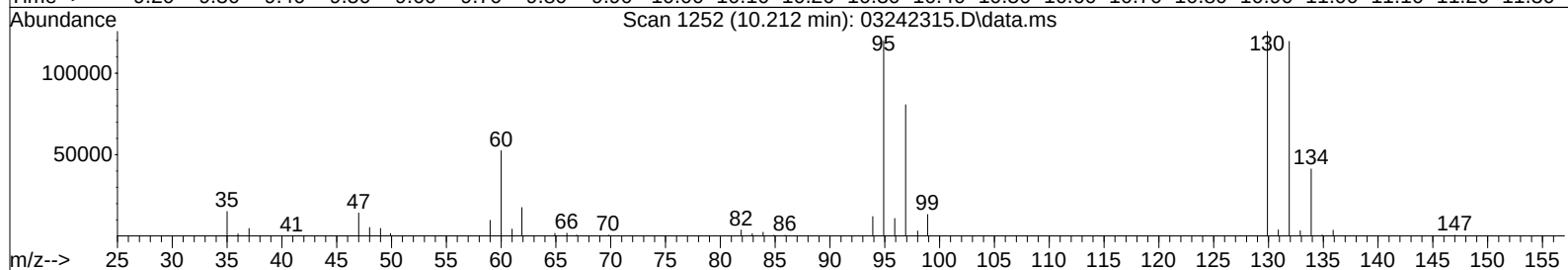
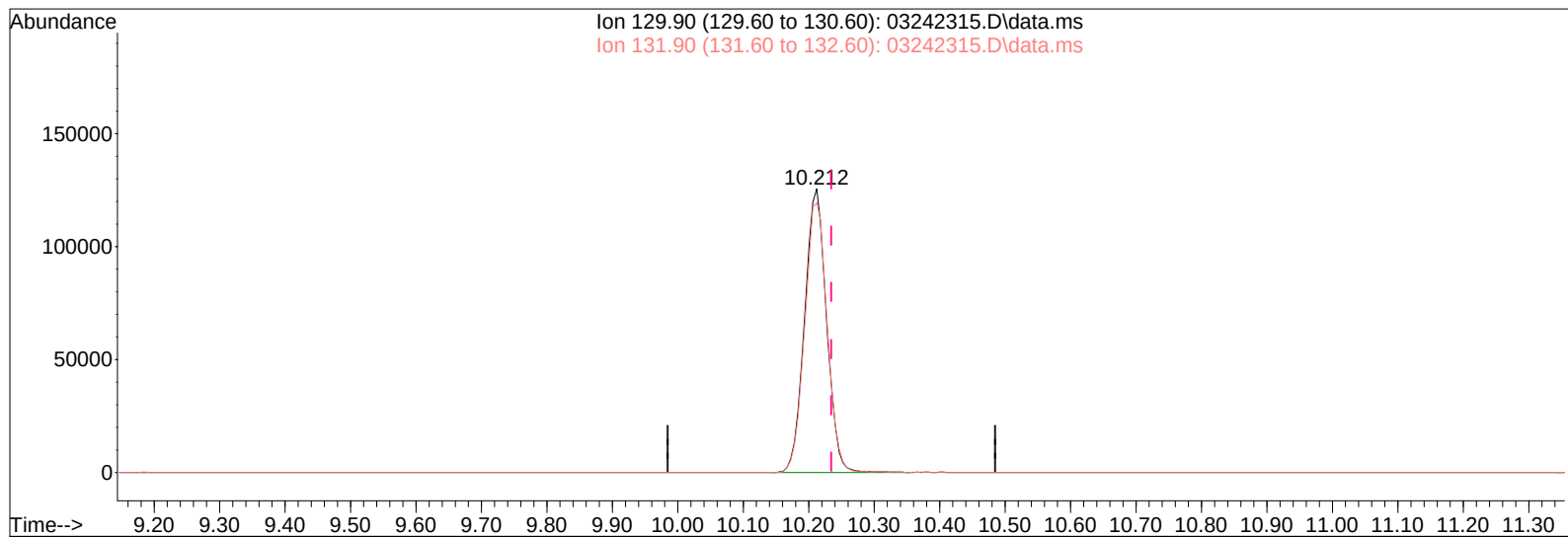
Quant Time: Mar 27 11:58:49 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242315.D
Acq On : 24 Mar 2023 14:21
Sample : P2301250-010dil (100mL)
Misc : S35-01202301

Vial: 3
Operator: TZ
Inst : MS13

Quant Time: Mar 25 06:49:27 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03242315.D\data.ms

(47) Trichloroethene (T)

10.212min (-0.023) 12.01ng

response 292544

Ion	Exp%	Act%
129.90	100	100
131.90	96.30	97.69
0.00	0.00	0.00
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG9

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: SC00778

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

0.050 Liter(s)

Initial Pressure (psig): -3.78 Final Pressure (psig): 4.14

Container Dilution Factor: 1.73

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.6	0.92	0.15	0.53	0.19	0.030	
74-87-3	Chloromethane	ND	0.36	0.15	ND	0.18	0.072	
75-01-4	Vinyl Chloride	ND	0.19	0.099	ND	0.074	0.039	
74-83-9	Bromomethane	ND	0.36	0.13	ND	0.094	0.033	
75-00-3	Chloroethane	0.28	0.36	0.11	0.11	0.14	0.043	J
67-64-1	Acetone	300	9.1	2.1	130	3.8	0.87	
75-69-4	Trichlorofluoromethane	1.1	0.90	0.14	0.20	0.16	0.025	
75-35-4	1,1-Dichloroethene	ND	0.19	0.13	ND	0.048	0.032	
75-09-2	Methylene Chloride	6.1	0.92	0.26	1.7	0.26	0.075	
76-13-1	Trichlorotrifluoroethane	0.49	0.93	0.13	0.064	0.12	0.017	J
75-15-0	Carbon Disulfide	3.0	1.9	0.28	0.97	0.59	0.089	
156-60-5	trans-1,2-Dichloroethene	ND	0.19	0.13	ND	0.048	0.032	
75-34-3	1,1-Dichloroethane	ND	0.19	0.13	ND	0.047	0.033	
1634-04-4	Methyl tert-Butyl Ether	ND	0.93	0.11	ND	0.26	0.030	
78-93-3	2-Butanone (MEK)	32	1.8	0.19	11	0.61	0.065	
156-59-2	cis-1,2-Dichloroethene	0.96	0.19	0.13	0.24	0.048	0.033	
67-66-3	Chloroform	22	0.19	0.12	4.5	0.039	0.025	
107-06-2	1,2-Dichloroethane	ND	0.19	0.10	ND	0.047	0.025	
71-55-6	1,1,1-Trichloroethane	1.2	0.19	0.11	0.22	0.035	0.021	
71-43-2	Benzene	1.2	0.19	0.13	0.37	0.060	0.042	
56-23-5	Carbon Tetrachloride	0.54	0.19	0.13	0.085	0.030	0.020	
110-82-7	Cyclohexane	0.52	1.8	0.26	0.15	0.53	0.075	J
78-87-5	1,2-Dichloropropane	ND	0.19	0.11	ND	0.041	0.025	
75-27-4	Bromodichloromethane	3.3	0.19	0.13	0.49	0.028	0.020	
79-01-6	Trichloroethene	1,000	3.8	2.5	190	0.71	0.46	D

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG9

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: SC00778

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

0.050 Liter(s)

Initial Pressure (psig): -3.78 Final Pressure (psig): 4.14

Container Dilution Factor: 1.73

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.93	0.14	ND	0.21	0.032	
108-10-1	4-Methyl-2-pentanone	7.2	1.9	0.13	1.8	0.46	0.031	
10061-02-6	trans-1,3-Dichloropropene	ND	0.88	0.19	ND	0.19	0.042	
79-00-5	1,1,2-Trichloroethane	ND	0.19	0.093	ND	0.035	0.017	
108-88-3	Toluene	6.9	0.92	0.11	1.8	0.24	0.030	
591-78-6	2-Hexanone	11	1.9	0.11	2.6	0.46	0.028	
124-48-1	Dibromochloromethane	0.24	0.19	0.12	0.028	0.022	0.014	
106-93-4	1,2-Dibromoethane	ND	0.19	0.11	ND	0.025	0.014	
127-18-4	Tetrachloroethene	36	0.19	0.12	5.3	0.028	0.018	
108-90-7	Chlorobenzene	ND	0.92	0.12	ND	0.20	0.027	
100-41-4	Ethylbenzene	0.98	0.92	0.13	0.23	0.21	0.030	
179601-23-1	m,p-Xylenes	3.6	1.9	0.24	0.83	0.44	0.056	
75-25-2	Bromoform	ND	0.93	0.19	ND	0.090	0.018	
100-42-5	Styrene	0.71	0.92	0.15	0.17	0.22	0.035	J
95-47-6	o-Xylene	1.6	0.92	0.13	0.37	0.21	0.031	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.19	0.13	ND	0.028	0.019	
98-82-8	Cumene	0.18	0.93	0.13	0.037	0.19	0.027	J
541-73-1	1,3-Dichlorobenzene	ND	0.92	0.14	ND	0.15	0.023	
106-46-7	1,4-Dichlorobenzene	ND	0.92	0.14	ND	0.15	0.024	
95-50-1	1,2-Dichlorobenzene	ND	0.93	0.14	ND	0.16	0.023	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.9	0.17	ND	0.20	0.018	
120-82-1	1,2,4-Trichlorobenzene	ND	1.9	0.22	ND	0.26	0.030	
79-20-9	Methyl Acetate	ND	0.87	0.42	ND	0.29	0.14	X
108-87-2	Methylcyclohexane	ND	0.87	0.45	ND	0.22	0.11	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS13\DATA\2023_03\24\03242313.D
 Acq On : 24 Mar 2023 13:06
 Sample : P2301250-011 (1000mL)
 Misc : S35-01202301

Vial: 4
 Operator: TZ
 Inst : MS13

TZ 3/27/23

Quant Time: Mar 27 12:05:22 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.34	130	250646	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	9.40	114	1102989	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	14.88	54	207604	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.10	65	425733	12.799	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.40%
57) Toluene-d8 (SS2)	12.49	98	1262001	11.820	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.56%
73) Bromofluorobenzene (SS3)	16.85	174	473187	12.101	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	96.80%

Target Compounds

						Qvalue
2) Propene	3.38	42	174822	6.974	ng	# 75
3) Dichlorodifluoromethan...	3.47	85	69466	1.513	ng	97
4) Chloromethane	0.00	50	0	N.D.	d	
5) 1,2-Dichloro-1,1,2,2-t...	3.70	135	130	N.D.		
6) Vinyl Chloride	3.75	62	131	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.	d	
8) Bromomethane	4.13	94	801	N.D.		
9) Chloroethane	4.28	64	2378	0.164	ng	92
10) Ethanol	4.45	45	1923310	108.045	ng	100
11) Acetonitrile	4.57	41	17554	0.380	ng	90
12) Acrolein	4.65	56	6574	0.447	ng	86
13) Acetone	4.75	58	2673382	175.966	ng	99
14) Trichlorofluoromethane	4.87	101	27181	0.658	ng	97
15) 2-Propanol (Isopropanol)	4.99	45	1089092	17.757	ng	100
16) Acrylonitrile	0.00	53	0	N.D.	d	
17) 1,1-Dichloroethene	5.35	96	529	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.45	84	78034	3.504	ng	90
20) 3-Chloro-1-propene (Al...	5.63	41	384	N.D.		
21) Trichlorotrifluoroethane	5.68	151	6124	0.282	ng	# 80
22) Carbon Disulfide	5.71	76	153290	1.738	ng	99
23) trans-1,2-Dichloroethene	6.24	61	1058	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.	d	
25) Methyl tert-Butyl Ether	6.47	73	3192	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	6.79	72	251890	18.677	ng	# 91
28) cis-1,2-Dichloroethene	7.19	61	17792	0.556	ng	98
29) Diisopropyl Ether	7.41	87	758	N.D.		
30) Ethyl Acetate	7.40	61	62713	7.071	ng	95
31) n-Hexane	7.38	57	18021	0.528	ng	90
32) Chloroform	7.46	83	509337	12.613	ng	99
34) Tetrahydrofuran (THF)	7.88	72	6900	0.498	ng	# 1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.22	62	901	N.D.		
38) 1,1,1-Trichloroethane	8.49	97	25418	0.696	ng	98
39) Isopropyl Acetate	9.39	61	31053	No Calib		
40) 1-Butanol	8.89	56	560515	No Calib	#	
41) Benzene	8.99	78	58368	0.680	ng	91
42) Carbon Tetrachloride	9.15	117	9992	0.310	ng	96
43) Cyclohexane	9.30	84	9473	0.301	ng	94
44) tert-Amyl Methyl Ether	9.69	73	498	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	10.17	83	60666	1.912	ng	97
47) Trichloroethene	10.24	130	12461757	495.742	ng	100
48) 1,4-Dioxane	0.00	88	0	N.D.	d	
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.	d	
50) Methyl Methacrylate	0.00	100	0	N.D.	d	

Data File : I:\MS13\DATA\2023_03\24\03242313.D
 Acq On : 24 Mar 2023 13:06
 Sample : P2301250-011 (1000mL)
 Misc : S35-01202301

Vial: 4
 Operator: TZ
 Inst : MS13

Quant Time: Mar 27 12:05:22 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

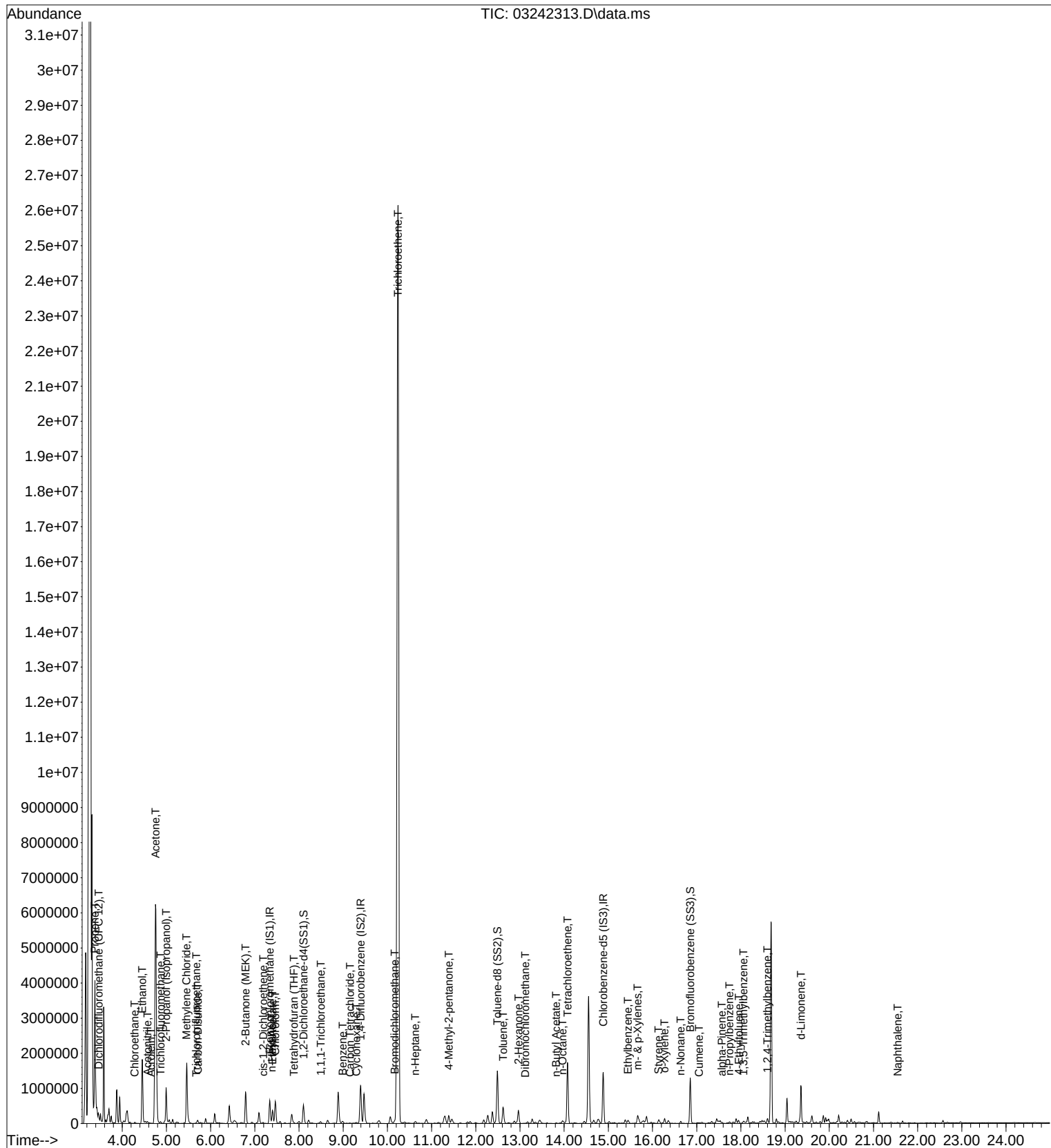
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.63	71	15267	0.735	ng	92
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.39	58	77502	4.190	ng	97
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.	d	
58) Toluene	12.62	91	405582	3.990	ng	100
59) 2-Hexanone	12.97	43	306166	6.201	ng	94
60) Dibromochloromethane	13.12	129	4172	0.140	ng	94
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.82	43	14639	0.261	ng	97
63) n-Octane	13.96	57	14411	0.721	ng	# 81
64) Tetrachloroethene	14.08	166	646111	20.896	ng	100
65) Chlorobenzene	14.94	112	3046	N.D.		
66) Ethylbenzene	15.44	91	68540	0.565	ng	100
67) m- & p-Xylenes	15.66	91	203367	2.084	ng	98
68) Bromoform	15.71	173	126	N.D.		
69) Styrene	16.14	104	27740	0.413	ng	99
70) o-Xylene	16.27	91	86526	0.927	ng	100
71) n-Nonane	16.64	43	25130	0.557	ng	95
72) 1,1,2,2-Tetrachloroethane	16.24	83	1657	N.D.		
74) Cumene	17.05	105	11841	0.104	ng	99
75) alpha-Pinene	17.57	93	14041	0.268	ng	99
76) n-Propylbenzene	17.74	91	35484	0.261	ng	99
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	47353	0.435	ng	99
79) 1,3,5-Trimethylbenzene	18.06	105	26897	0.279	ng	98
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.60	105	73262	0.772	ng	90
83) n-Decane	17.12	58	8183	No Calib	#	
84) Benzyl Chloride	18.76	91	850	N.D.		
85) 1,3-Dichlorobenzene	18.77	146	1904	N.D.		
86) 1,4-Dichlorobenzene	18.86	146	2969	N.D.		
87) sec-Butylbenzene	18.96	105	2044	N.D.		
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.	d	
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.30	146	2233	N.D.		
91) d-Limonene	19.36	68	253692	7.903	ng	96
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.23	58	9975	No Calib		
94) 1,2,4-Trichlorobenzene	21.43	180	786	N.D.		
95) Naphthalene	21.55	128	6547	0.064	ng	95
96) n-Dodecane	19.20	58	630	No Calib	#	
97) Hexachlorobutadiene	21.99	225	279	N.D.		
98) Cyclohexanone	15.71	55	284	No Calib	#	
99) tert-Butylbenzene	0.00	119	0	N.D.	d	
100) n-Butylbenzene	0.00	91	0	N.D.	d	
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242313.D
Acq On : 24 Mar 2023 13:06
Sample : P2301250-011 (1000mL)
Misc : S35-01202301

Vial: 4
Operator: TZ
Inst : MS13

Quant Time: Mar 27 12:05:22 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242313.D
 Acq On : 24 Mar 2023 13:06
 Sample : P2301250-011 (1000mL)
 Misc : S35-01202301

Vial: 4
 Operator: TZ
 Inst : MS13

Tz 3/27/23

Quant Time: Mar 27 12:05:22 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.34	130	250646	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	9.40	114	1102989	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	14.88	54	207604	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.10	65	425733	12.799	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.40%
57) Toluene-d8 (SS2)	12.49	98	1262001	11.820	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.56%
73) Bromofluorobenzene (SS3)	16.85	174	473187	12.101	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	96.80%

Target Compounds

						Qvalue
2) Propene	3.38	42	174822	6.974	ng	# 75
3) Dichlorodifluoromethan...	3.47	85	69466	1.513	ng	97
9) Chloroethane	4.28	64	2378	0.164	ng	92
10) Ethanol	4.45	45	1923310	108.045	ng	100
11) Acetonitrile	4.57	41	17554	0.380	ng	90
12) Acrolein	4.65	56	6574	0.447	ng	86
13) Acetone	4.75	58	2673382	175.966	ng	99
14) Trichlorofluoromethane	4.87	101	27181	0.658	ng	97
15) 2-Propanol (Isopropanol)	4.99	45	1089092	17.757	ng	100
19) Methylene Chloride	5.45	84	78034	3.504	ng	90
21) Trichlorotrifluoroethane	5.68	151	6124	0.282	ng	# 80
22) Carbon Disulfide	5.71	76	153290	1.738	ng	99
27) 2-Butanone (MEK)	6.79	72	251890	18.677	ng	# 91
28) cis-1,2-Dichloroethene	7.19	61	17792	0.556	ng	98
30) Ethyl Acetate	7.40	61	62713	7.071	ng	95
31) n-Hexane	7.38	57	18021	0.528	ng	90
32) Chloroform	7.46	83	509337	12.613	ng	99
34) Tetrahydrofuran (THF)	7.88	72	6900	0.498	ng	# 1
38) 1,1,1-Trichloroethane	8.49	97	25418	0.696	ng	98
41) Benzene	8.99	78	58368	0.680	ng	91
42) Carbon Tetrachloride	9.15	117	9992	0.310	ng	96
43) Cyclohexane	9.30	84	9473	0.301	ng	94
46) Bromodichloromethane	10.17	83	60666	1.912	ng	97
47) Trichloroethene	10.24	130	12461757	495.742	ng	100
51) n-Heptane	10.63	71	15267	0.735	ng	92
53) 4-Methyl-2-pentanone	11.39	58	77502	4.190	ng	97
58) Toluene	12.62	91	405582	3.990	ng	100
59) 2-Hexanone	12.97	43	306166	6.201	ng	94
60) Dibromochloromethane	13.12	129	4172	0.140	ng	94
62) n-Butyl Acetate	13.82	43	14639	0.261	ng	97
63) n-Octane	13.96	57	14411	0.721	ng	# 81
64) Tetrachloroethene	14.08	166	646111	20.896	ng	100
66) Ethylbenzene	15.44	91	68540	0.565	ng	100
67) m- & p-Xylenes	15.66	91	203367	2.084	ng	98
69) Styrene	16.14	104	27740	0.413	ng	99
70) o-Xylene	16.27	91	86526	0.927	ng	100
71) n-Nonane	16.64	43	25130	0.557	ng	95
74) Cumene	17.05	105	11841	0.104	ng	99
75) alpha-Pinene	17.57	93	14041	0.268	ng	99
76) n-Propylbenzene	17.74	91	35484	0.261	ng	99
78) 4-Ethyltoluene	17.95	105	47353	0.435	ng	99
79) 1,3,5-Trimethylbenzene	18.06	105	26897	0.279	ng	98
82) 1,2,4-Trimethylbenzene	18.60	105	73262	0.772	ng	90
91) d-Limonene	19.36	68	253692	7.903	ng	96
95) Naphthalene	21.55	128	6547	0.064	ng	95

Data File : I:\MS13\DATA\2023_03\24\03242313.D Vial: 4
Acq On : 24 Mar 2023 13:06 Operator: TZ
Sample : P2301250-011 (1000mL) Inst : MS13
Misc : S35-01202301

Quant Time: Mar 27 12:05:22 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M

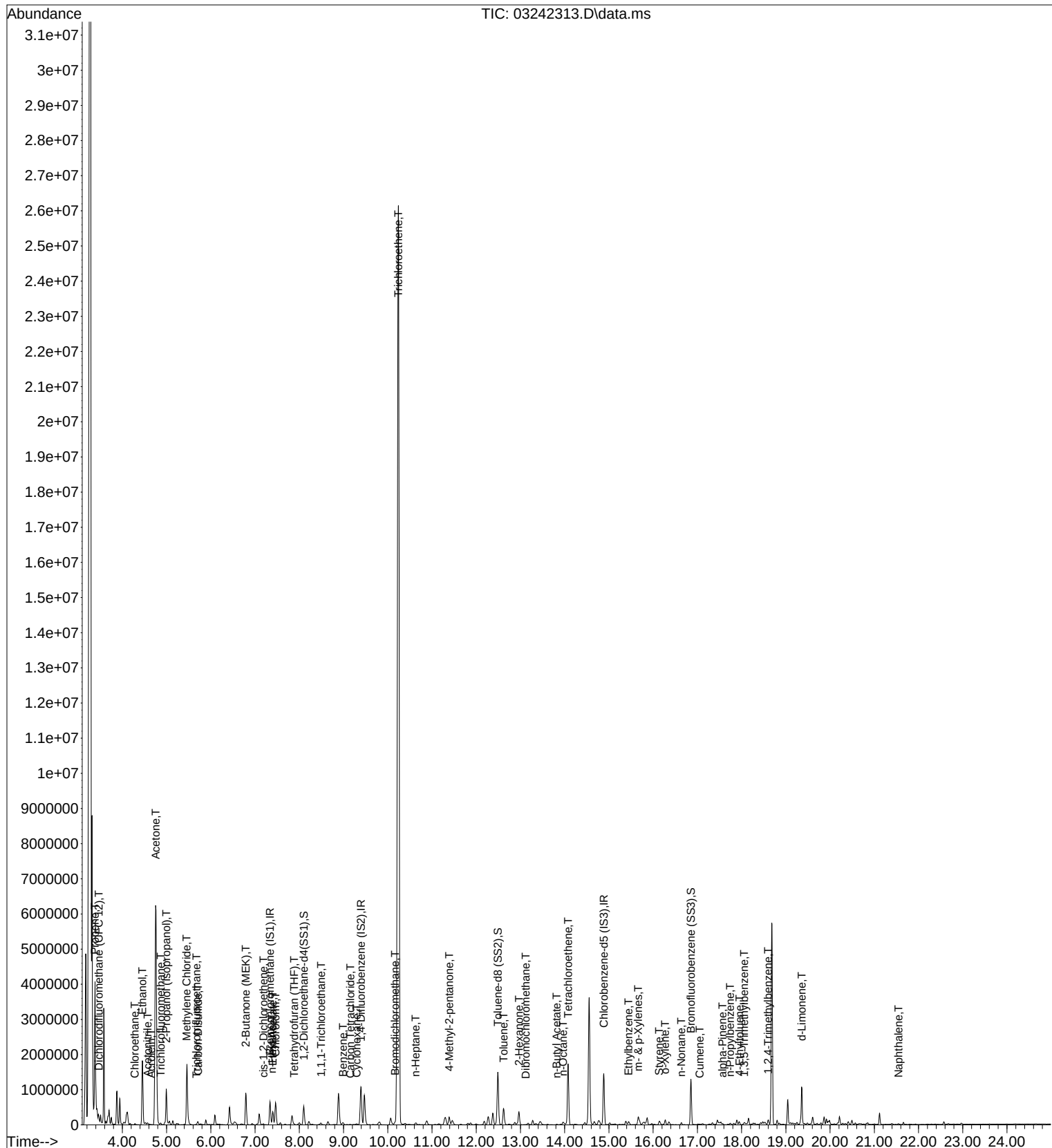
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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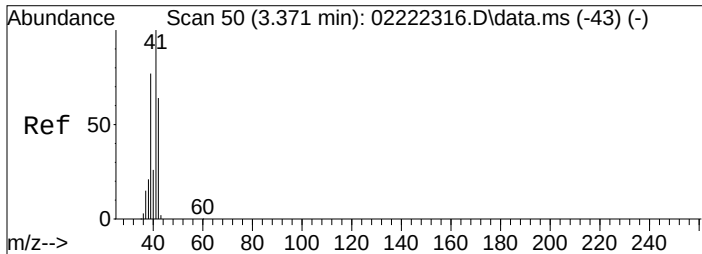
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS13\DATA\2023_03\24\03242313.D
Acq On : 24 Mar 2023 13:06
Sample : P2301250-011 (1000mL)
Misc : S35-01202301

Vial: 4
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Quant Time: Mar 27 12:05:22 2023
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QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M

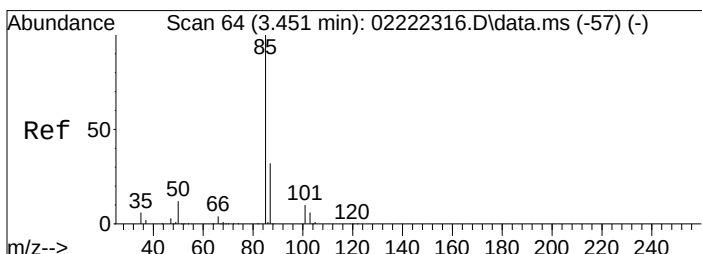
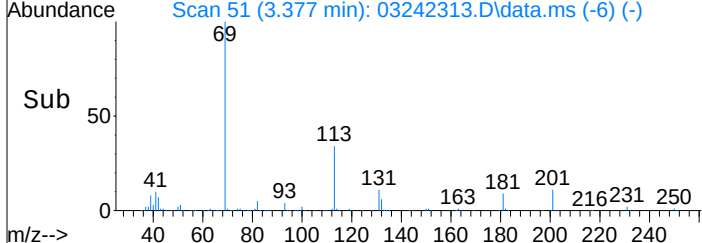
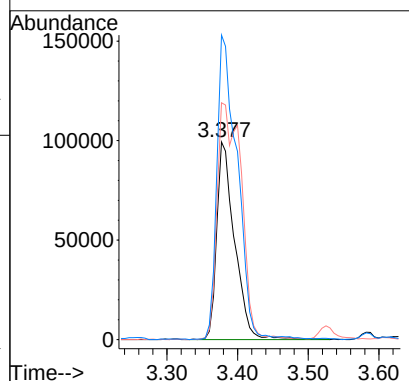
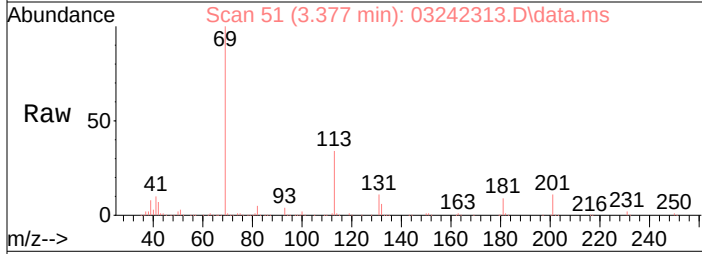




#2
 Propene
 Concen: 6.97 ng
 RT: 3.38 min Scan# 51
 Delta R.T. 0.006 min
 Lab File: 03242313.D
 Acq: 24 Mar 2023 13:06

Tgt Ion: 42 Resp: 174822

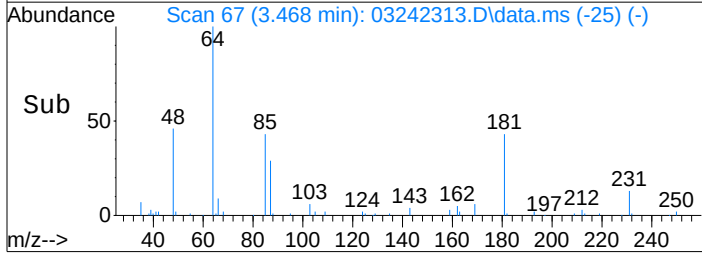
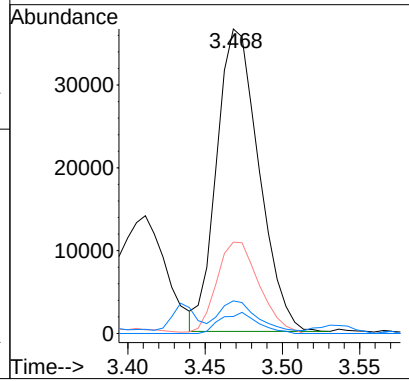
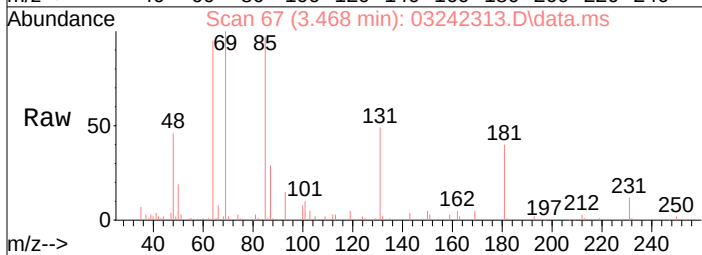
Ion	Ratio	Lower	Upper
42	100		
39	161.9	100.7	140.7#
41	174.8	134.4	174.4#

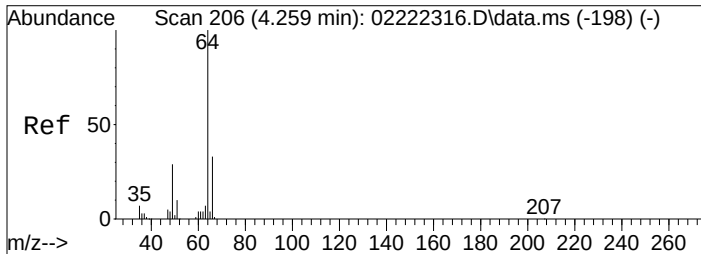


#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.51 ng
 RT: 3.47 min Scan# 67
 Delta R.T. -0.010 min
 Lab File: 03242313.D
 Acq: 24 Mar 2023 13:06

Tgt Ion: 85 Resp: 69466

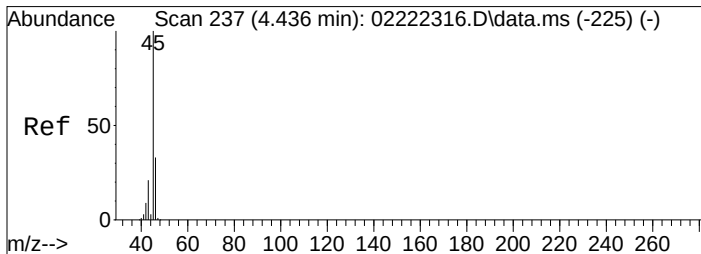
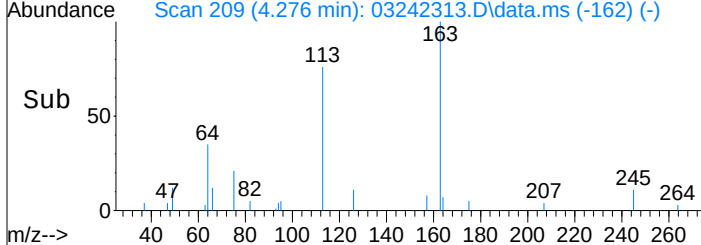
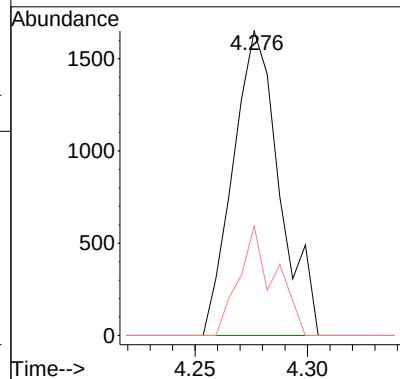
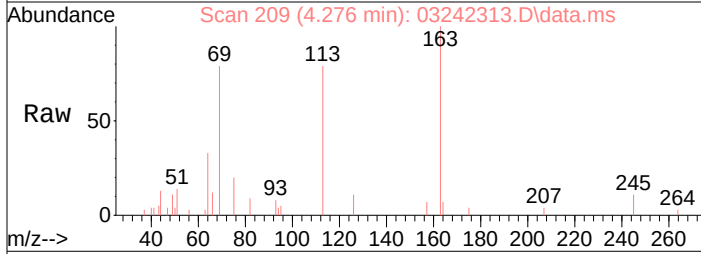
Ion	Ratio	Lower	Upper
85	100		
87	30.5	12.4	52.4
101	8.3	0.0	29.4
103	6.2	0.0	26.0





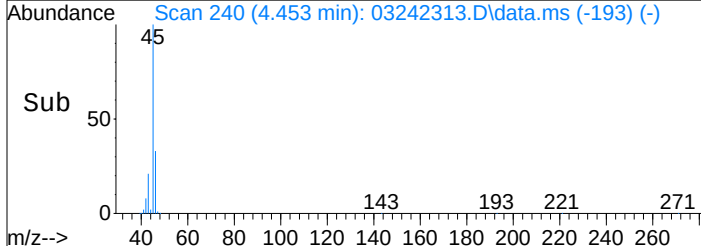
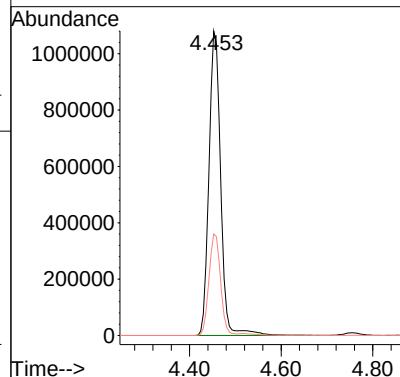
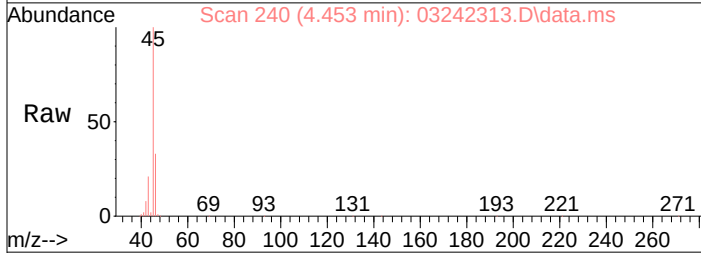
#9
Chloroethane
Concen: 0.16 ng
RT: 4.28 min Scan# 209
Delta R.T. 0.017 min
Lab File: 03242313.D
Acq: 24 Mar 2023 13:06

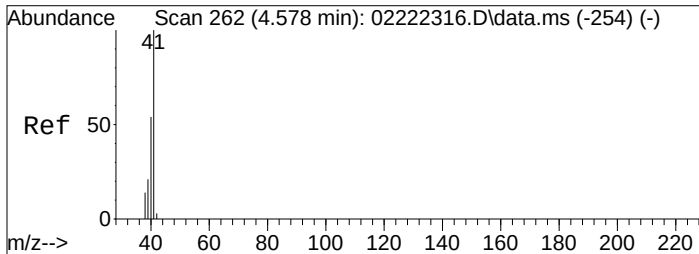
Tgt Ion: 64 Resp: 2378
Ion Ratio Lower Upper
64 100
66 27.9 12.3 52.3



#10
Ethanol
Concen: 108.04 ng
RT: 4.45 min Scan# 240
Delta R.T. 0.017 min
Lab File: 03242313.D
Acq: 24 Mar 2023 13:06

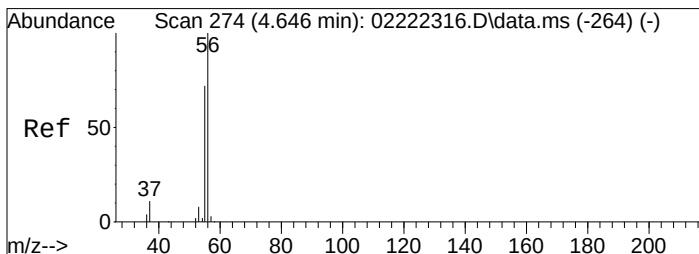
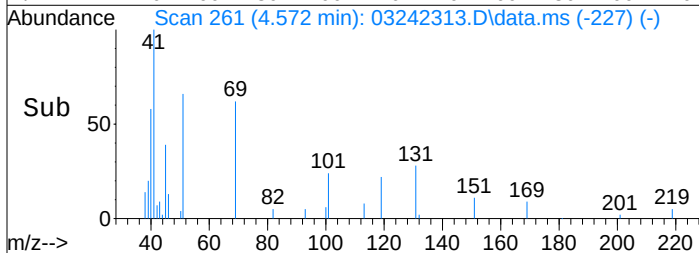
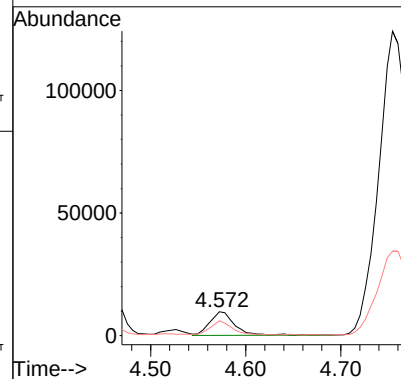
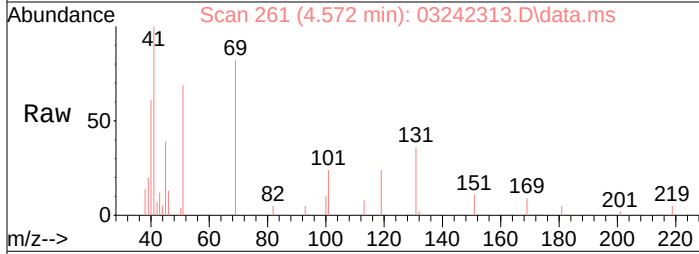
Tgt Ion: 45 Resp: 1923310
Ion Ratio Lower Upper
45 100
46 33.9 13.8 53.8





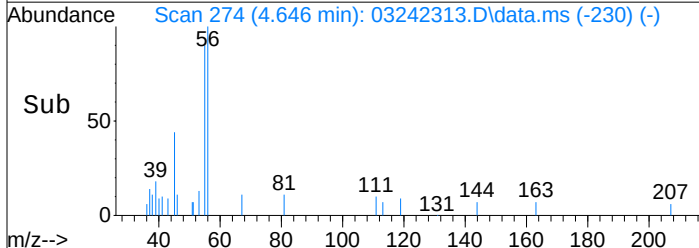
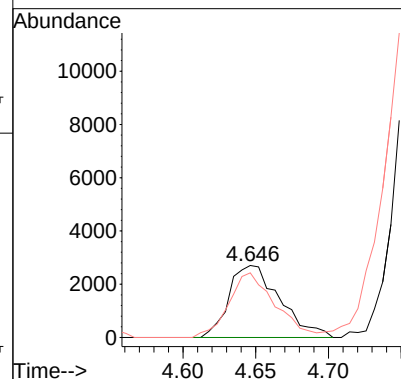
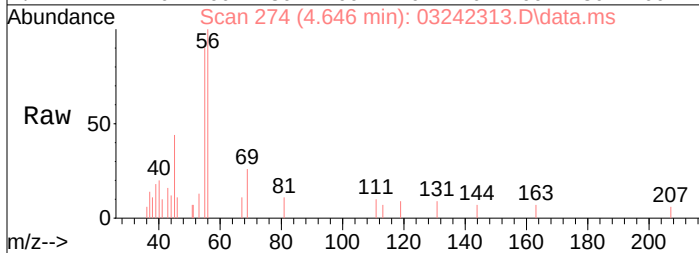
#11
Acetonitrile
Concen: 0.38 ng
RT: 4.57 min Scan# 261
Delta R.T. -0.006 min
Lab File: 03242313.D
Acq: 24 Mar 2023 13:06

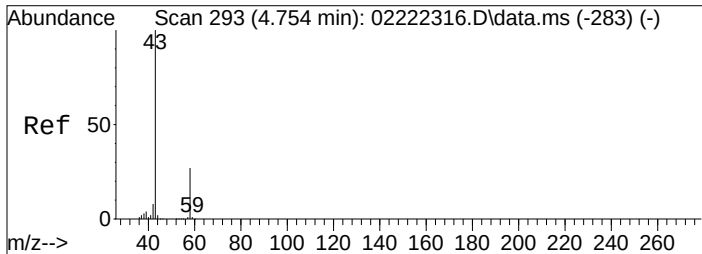
Tgt Ion: 41 Resp: 17554
Ion Ratio Lower Upper
41 100
40 61.3 34.4 74.4



#12
Acrolein
Concen: 0.45 ng
RT: 4.65 min Scan# 274
Delta R.T. 0.000 min
Lab File: 03242313.D
Acq: 24 Mar 2023 13:06

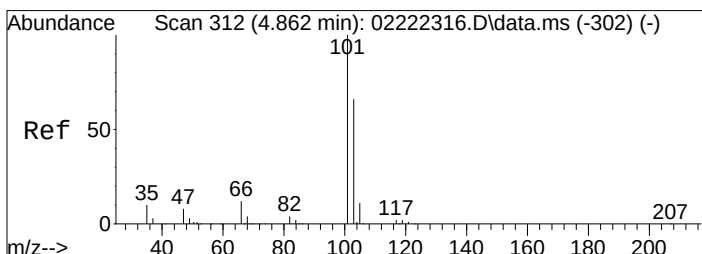
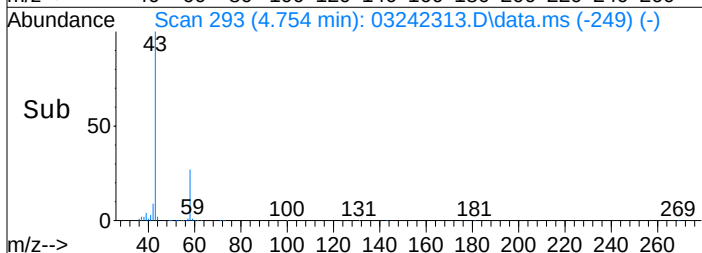
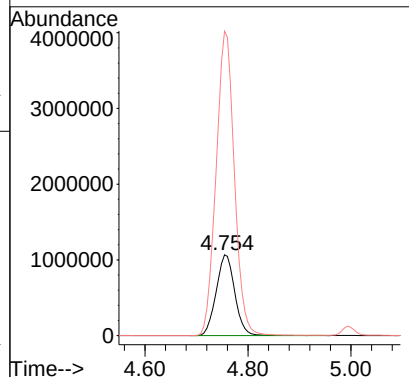
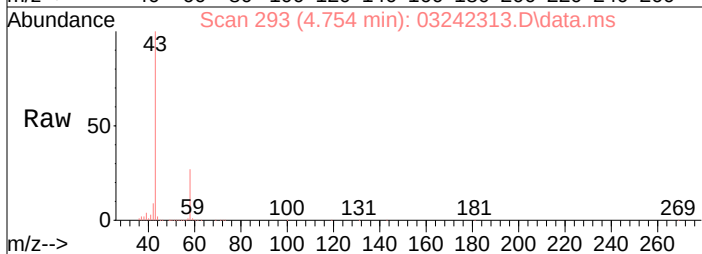
Tgt Ion: 56 Resp: 6574
Ion Ratio Lower Upper
56 100
55 82.8 50.9 90.9





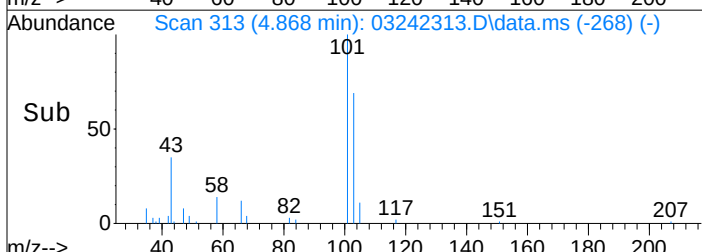
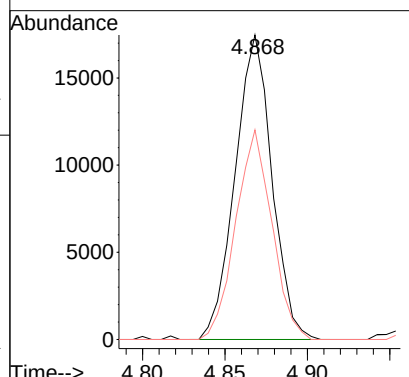
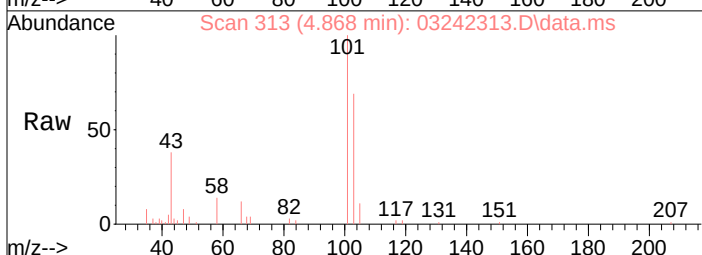
#13
 Acetone
 Concen: 175.97 ng
 RT: 4.75 min Scan# 293
 Delta R.T. 0.000 min
 Lab File: 03242313.D
 Acq: 24 Mar 2023 13:06

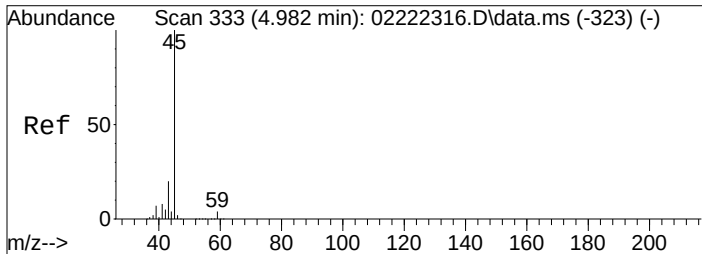
Tgt Ion	Ratio	Lower	Upper
58	100		
43	371.1	337.8	397.8



#14
 Trichlorofluoromethane
 Concen: 0.66 ng
 RT: 4.87 min Scan# 313
 Delta R.T. 0.006 min
 Lab File: 03242313.D
 Acq: 24 Mar 2023 13:06

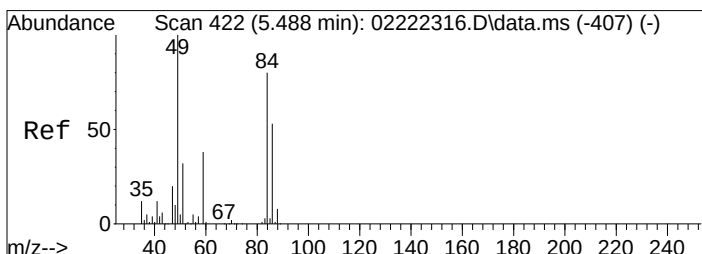
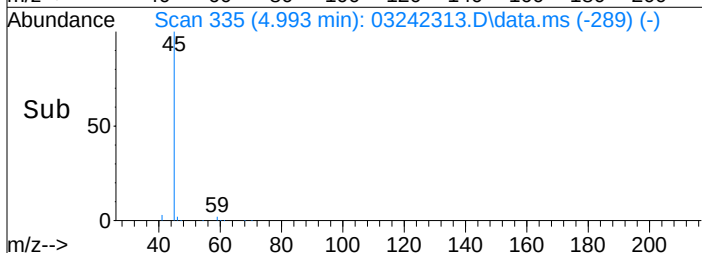
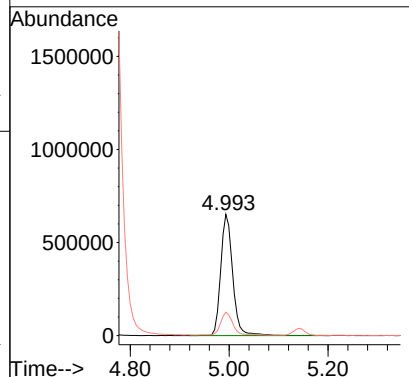
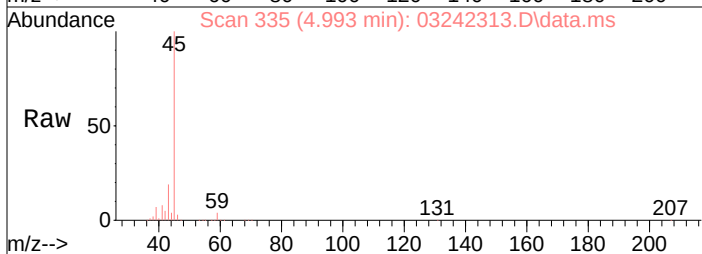
Tgt Ion	Ratio	Lower	Upper
101	100		
103	67.5	45.2	85.2





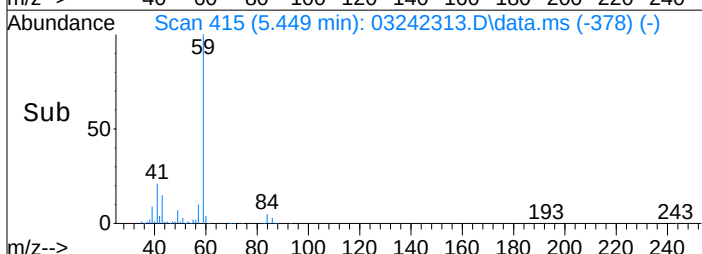
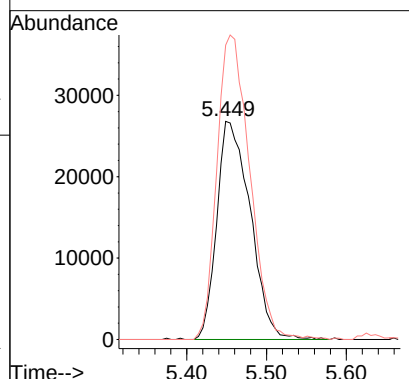
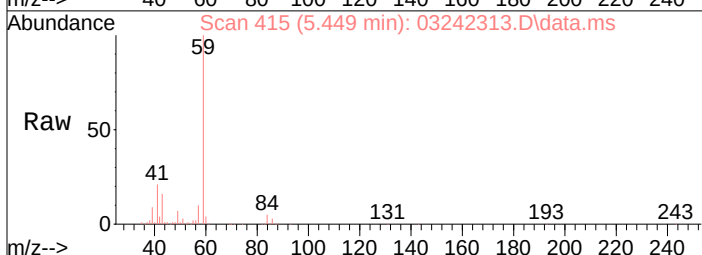
#15
 2-Propanol (Isopropanol)
 Concen: 17.76 ng
 RT: 4.99 min Scan# 335
 Delta R.T. 0.012 min
 Lab File: 03242313.D
 Acq: 24 Mar 2023 13:06

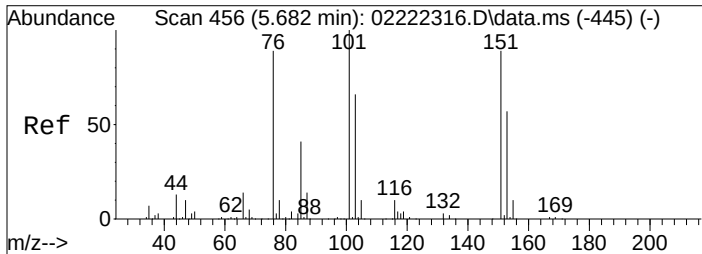
Tgt Ion: 45 Resp: 1089092
 Ion Ratio Lower Upper
 45 100
 43 19.6 0.0 39.7



#19
 Methylene Chloride
 Concen: 3.50 ng
 RT: 5.45 min Scan# 415
 Delta R.T. -0.040 min
 Lab File: 03242313.D
 Acq: 24 Mar 2023 13:06

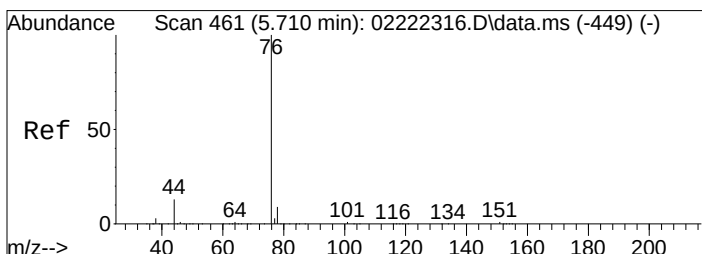
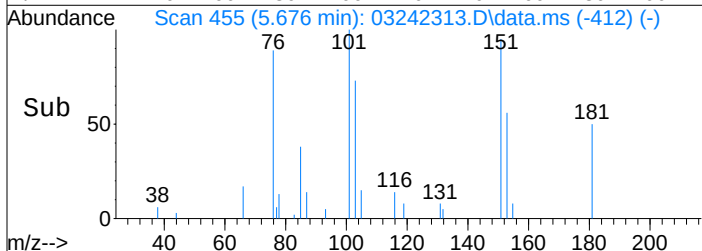
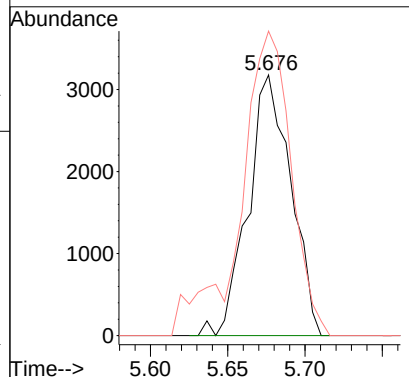
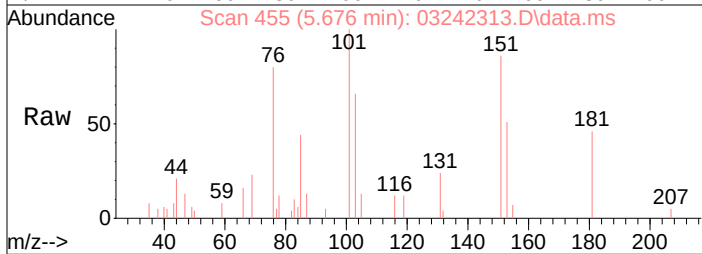
Tgt Ion: 84 Resp: 78034
 Ion Ratio Lower Upper
 84 100
 49 137.4 101.3 151.3





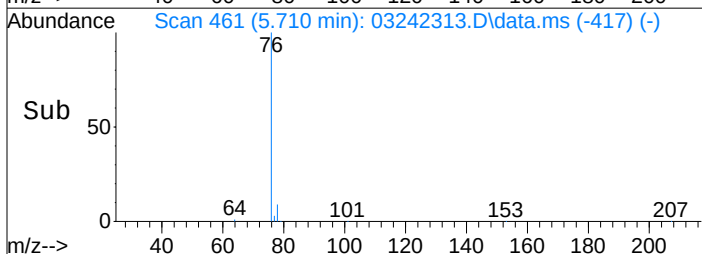
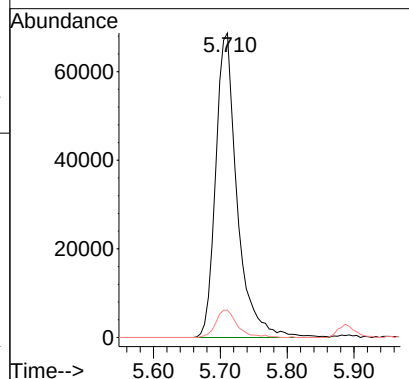
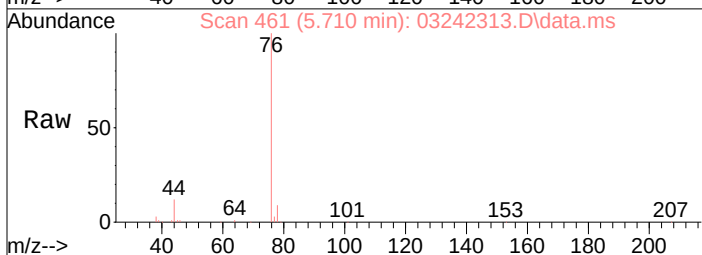
#21
 Trichlorotrifluoroethane
 Concen: 0.28 ng
 RT: 5.68 min Scan# 455
 Delta R.T. -0.006 min
 Lab File: 03242313.D
 Acq: 24 Mar 2023 13:06

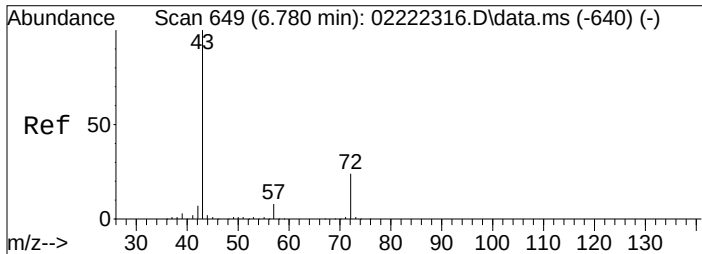
Tgt Ion: 151 Resp: 6124
 Ion Ratio Lower Upper
 151 100
 101 137.7 96.3 136.3#



#22
 Carbon Disulfide
 Concen: 1.74 ng
 RT: 5.71 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: 03242313.D
 Acq: 24 Mar 2023 13:06

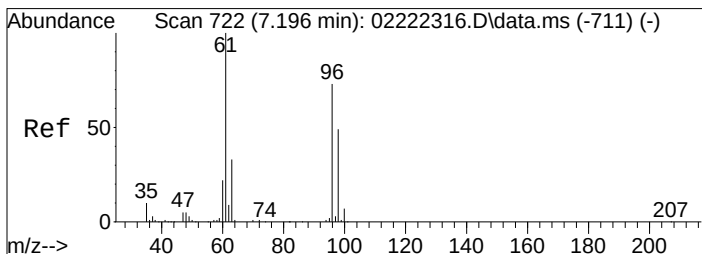
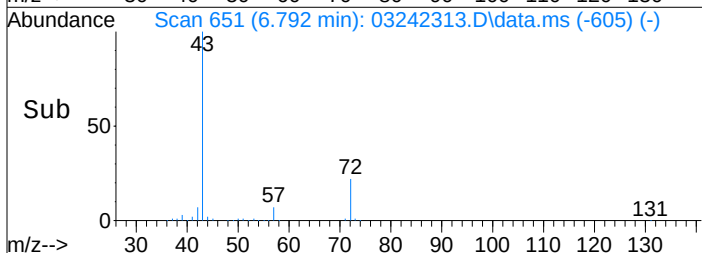
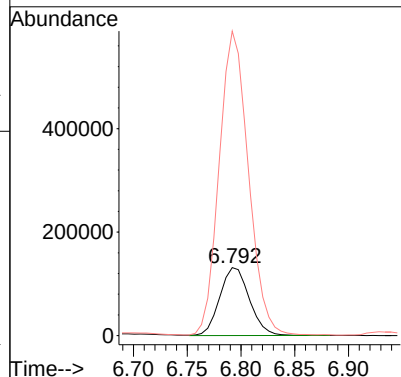
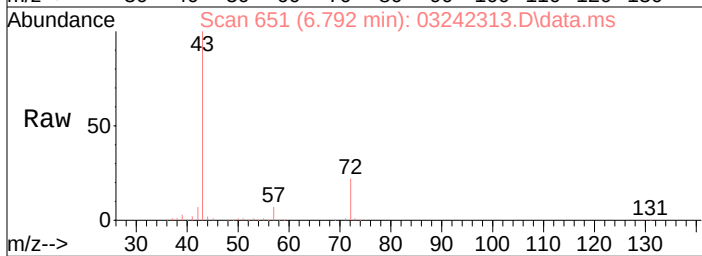
Tgt Ion: 76 Resp: 153290
 Ion Ratio Lower Upper
 76 100
 78 9.1 0.0 29.3





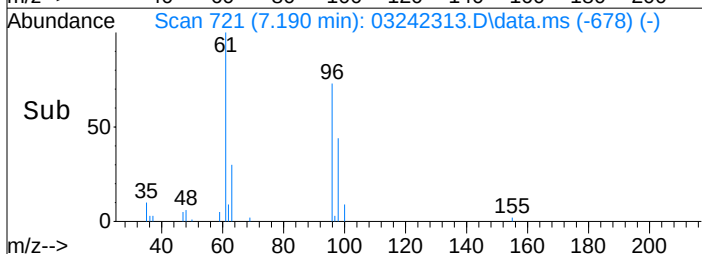
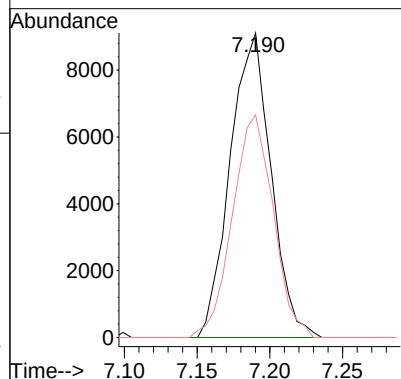
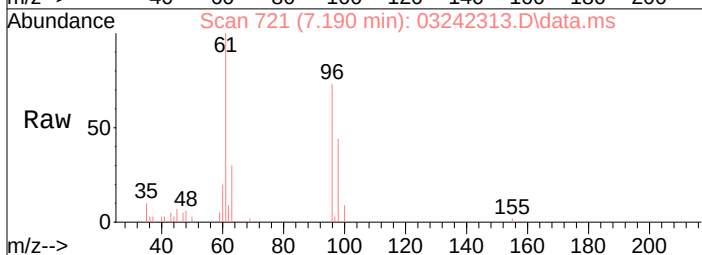
#27
2-Butanone (MEK)
Concen: 18.68 ng
RT: 6.79 min Scan# 651
Delta R.T. 0.012 min
Lab File: 03242313.D
Acq: 24 Mar 2023 13:06

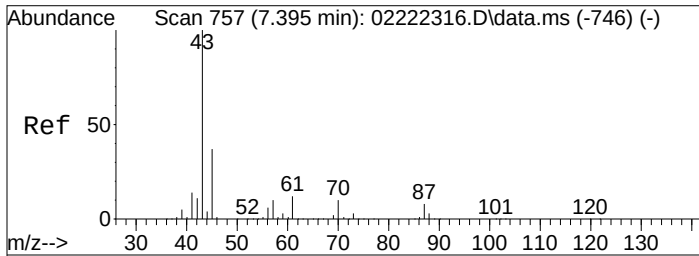
Tgt Ion: 72 Resp: 251890
Ion Ratio Lower Upper
72 100
43 442.2 400.5 440.5#



#28
cis-1,2-Dichloroethene
Concen: 0.56 ng
RT: 7.19 min Scan# 721
Delta R.T. -0.006 min
Lab File: 03242313.D
Acq: 24 Mar 2023 13:06

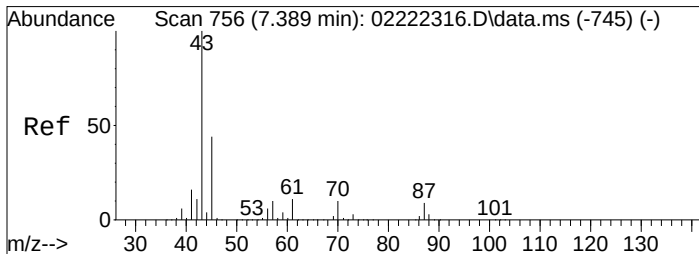
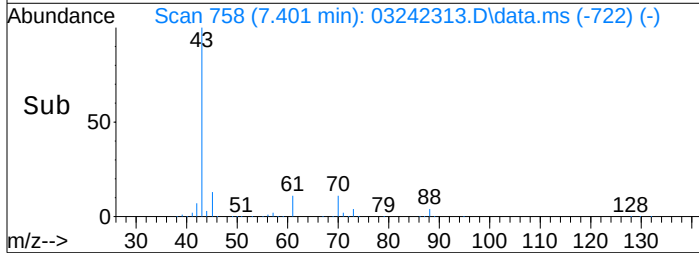
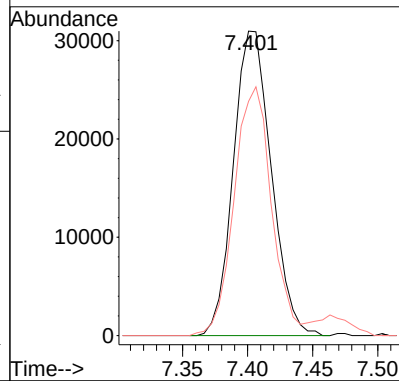
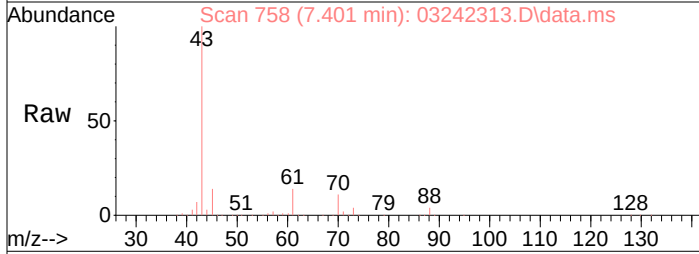
Tgt Ion: 61 Resp: 17792
Ion Ratio Lower Upper
61 100
96 73.1 54.5 94.5





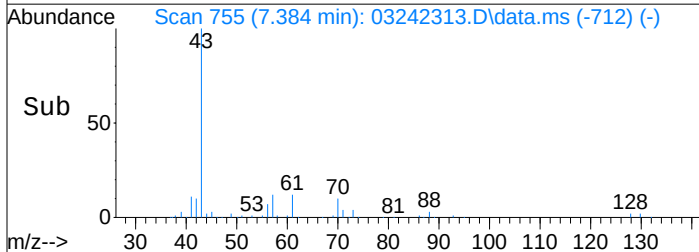
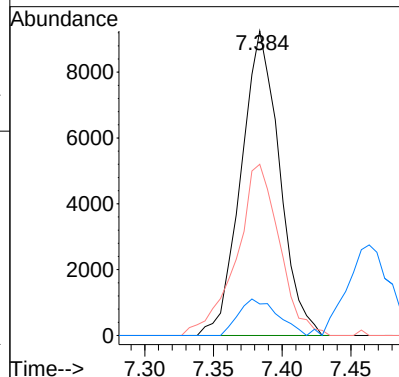
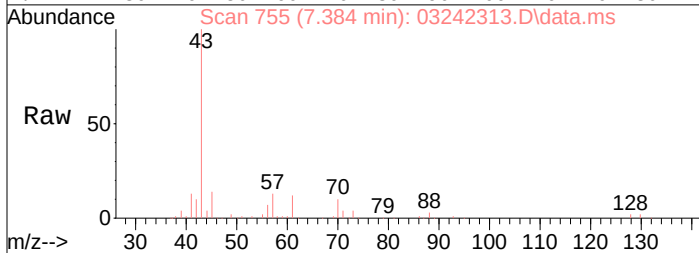
#30
Ethyl Acetate
Concen: 7.07 ng
RT: 7.40 min Scan# 758
Delta R.T. 0.006 min
Lab File: 03242313.D
Acq: 24 Mar 2023 13:06

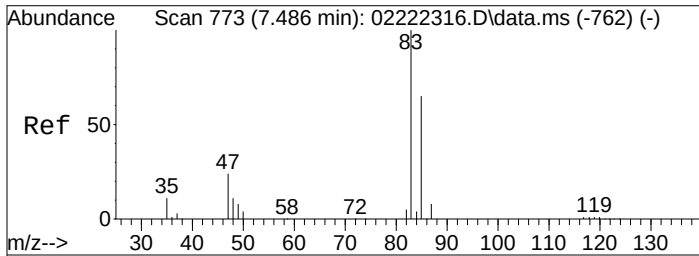
Tgt Ion: 61 Resp: 62713
Ion Ratio Lower Upper
61 100
70 80.9 65.6 105.6



#31
n-Hexane
Concen: 0.53 ng
RT: 7.38 min Scan# 755
Delta R.T. -0.006 min
Lab File: 03242313.D
Acq: 24 Mar 2023 13:06

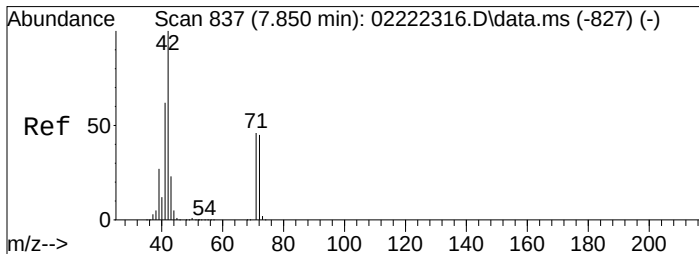
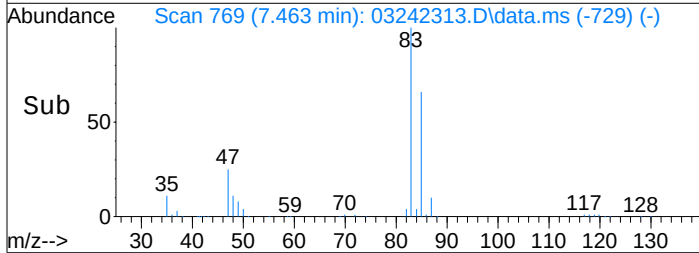
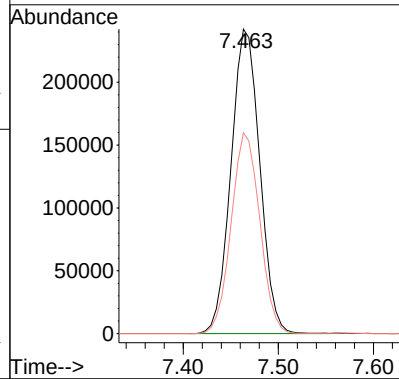
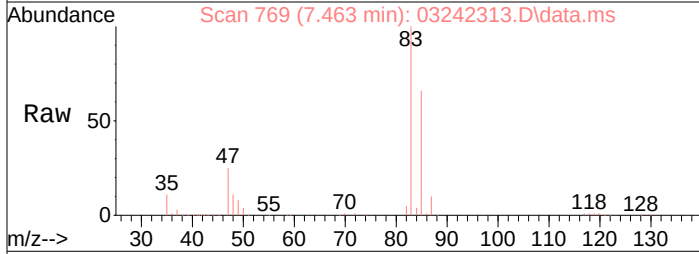
Tgt Ion: 57 Resp: 18021
Ion Ratio Lower Upper
57 100
56 62.7 44.0 66.0
86 12.2 11.5 17.3





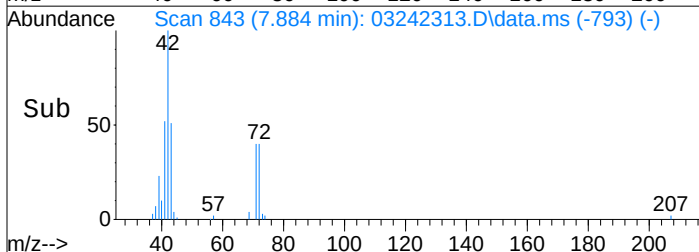
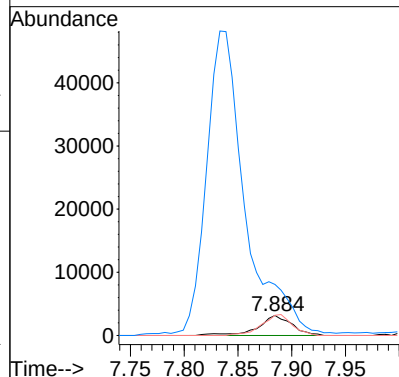
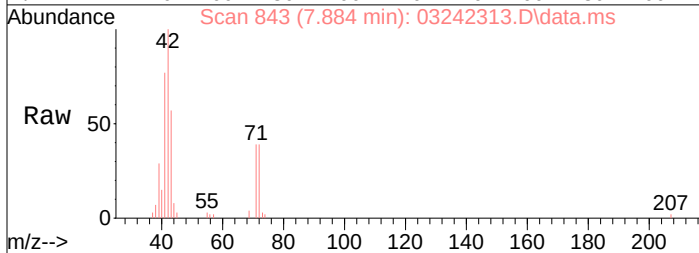
#32
Chloroform
Concen: 12.61 ng
RT: 7.46 min Scan# 769
Delta R.T. -0.023 min
Lab File: 03242313.D
Acq: 24 Mar 2023 13:06

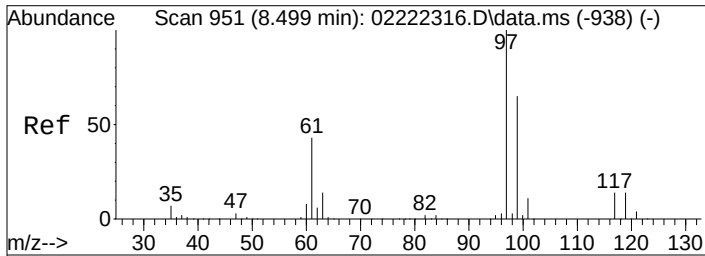
Tgt Ion: 83 Resp: 509337
Ion Ratio Lower Upper
83 100
85 65.6 45.0 85.0



#34
Tetrahydrofuran (THF)
Concen: 0.50 ng
RT: 7.88 min Scan# 843
Delta R.T. 0.034 min
Lab File: 03242313.D
Acq: 24 Mar 2023 13:06

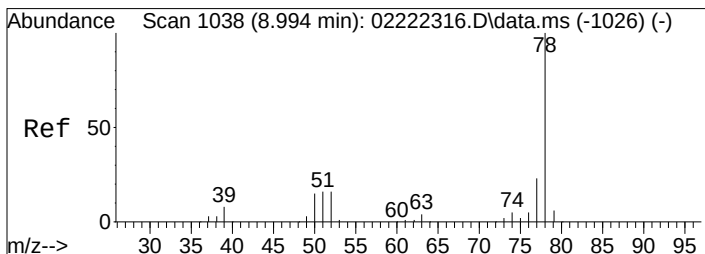
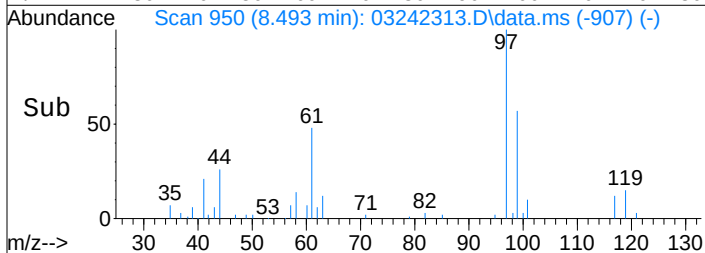
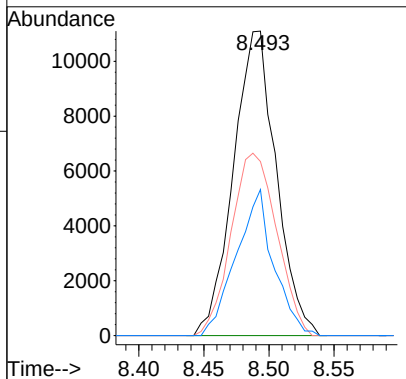
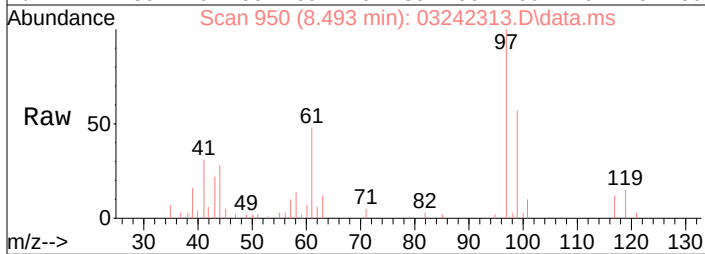
Tgt Ion: 72 Resp: 6900
Ion Ratio Lower Upper
72 100
71 93.9 79.8 119.8
42 1792.2 199.0 239.0#





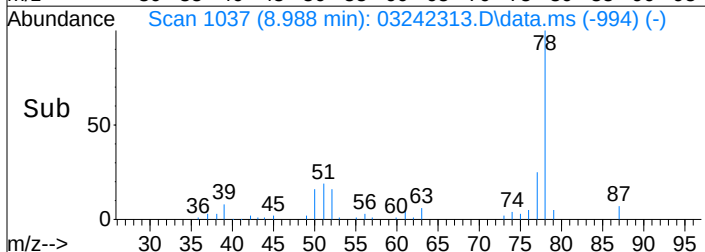
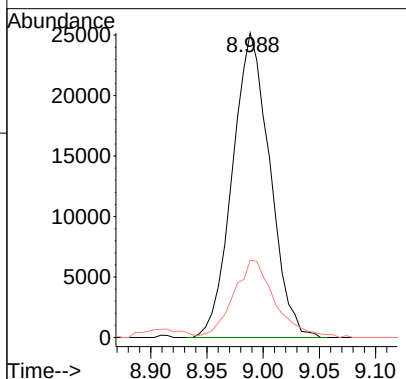
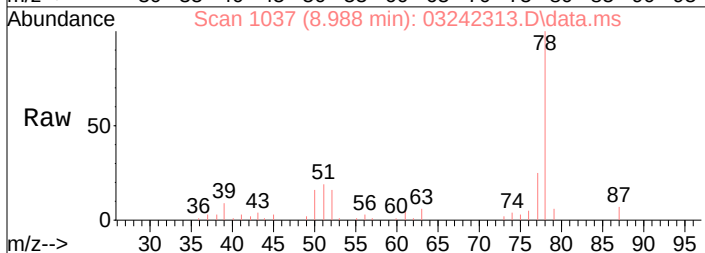
#38
 1,1,1-Trichloroethane
 Concen: 0.70 ng
 RT: 8.49 min Scan# 950
 Delta R.T. -0.006 min
 Lab File: 03242313.D
 Acq: 24 Mar 2023 13:06

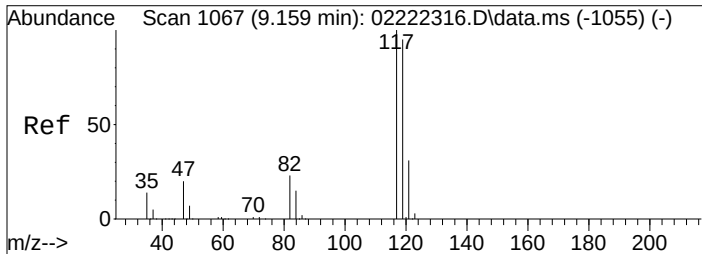
Tgt Ion:	97	Resp:	25418
Ion Ratio		Lower	Upper
97	100		
99	63.9	44.9	84.9
61	42.0	23.5	63.5



#41
 Benzene
 Concen: 0.68 ng
 RT: 8.99 min Scan# 1037
 Delta R.T. -0.006 min
 Lab File: 03242313.D
 Acq: 24 Mar 2023 13:06

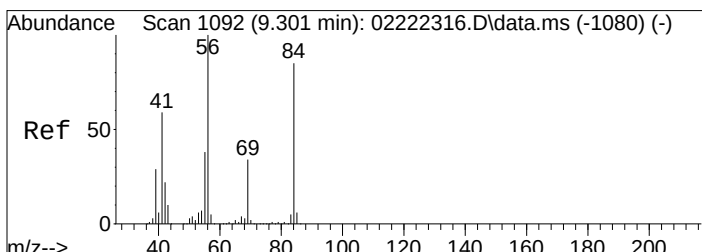
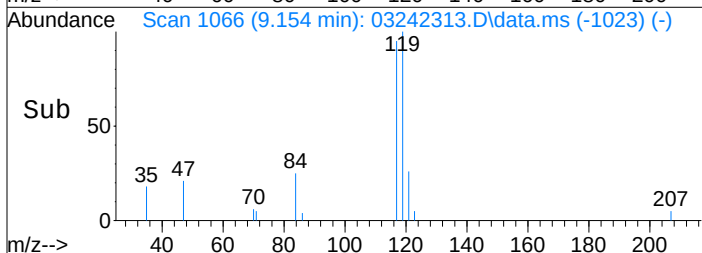
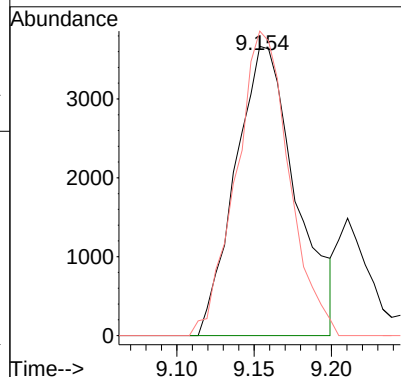
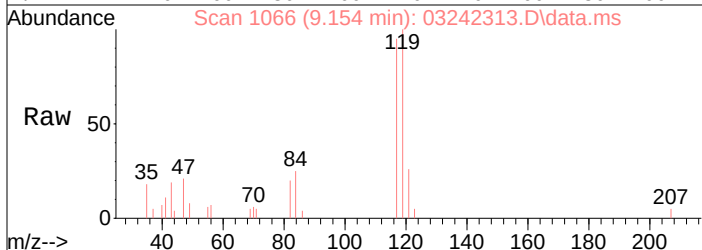
Tgt Ion:	78	Resp:	58368
Ion Ratio		Lower	Upper
78	100		
77	28.2	3.7	43.7





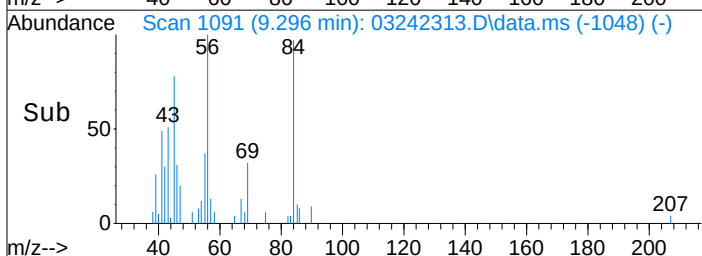
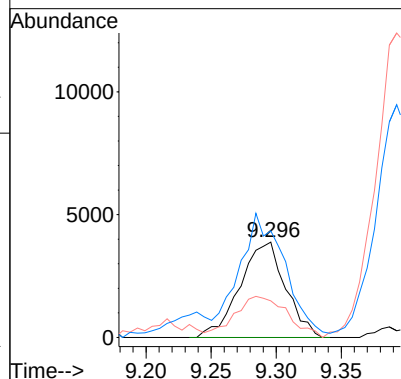
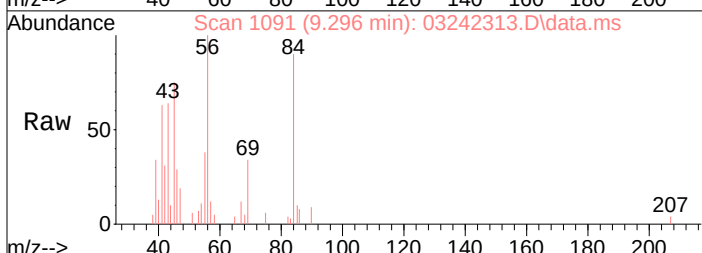
#42
 Carbon Tetrachloride
 Concen: 0.31 ng
 RT: 9.15 min Scan# 1066
 Delta R.T. -0.006 min
 Lab File: 03242313.D
 Acq: 24 Mar 2023 13:06

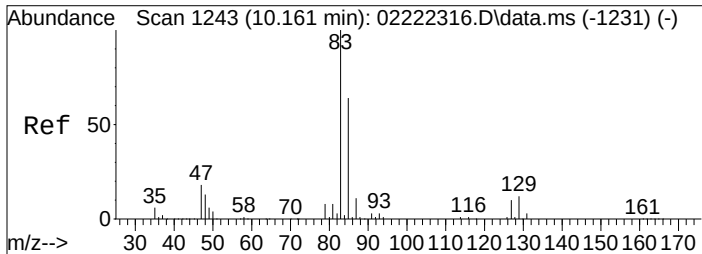
Tgt Ion: 117	Resp: 9992
Ion Ratio	Lower Upper
117	100
119	92.2 75.7 115.7



#43
 Cyclohexane
 Concen: 0.30 ng
 RT: 9.30 min Scan# 1091
 Delta R.T. -0.006 min
 Lab File: 03242313.D
 Acq: 24 Mar 2023 13:06

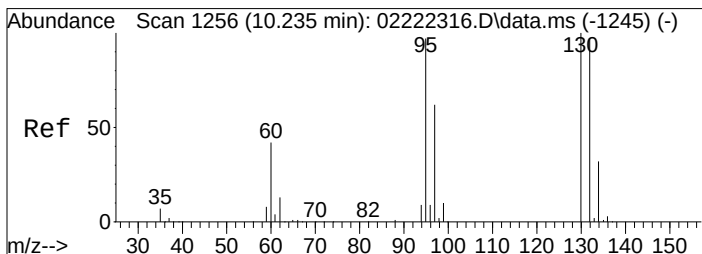
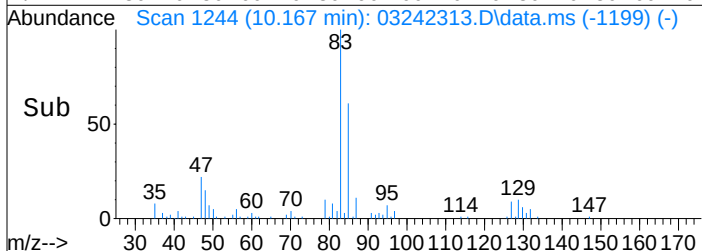
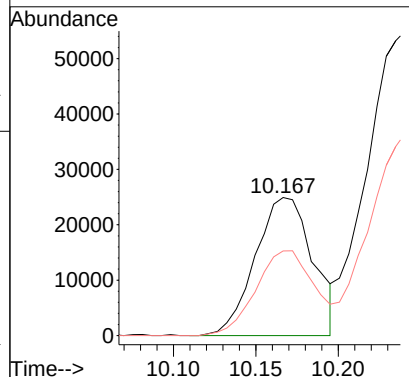
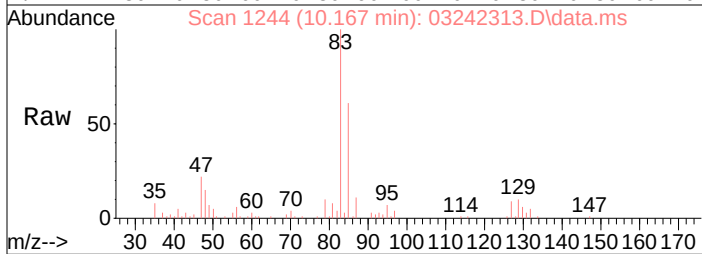
Tgt Ion: 84	Resp: 9473
Ion Ratio	Lower Upper
84	100
69	49.4 20.0 60.0
56	121.3 98.5 138.5





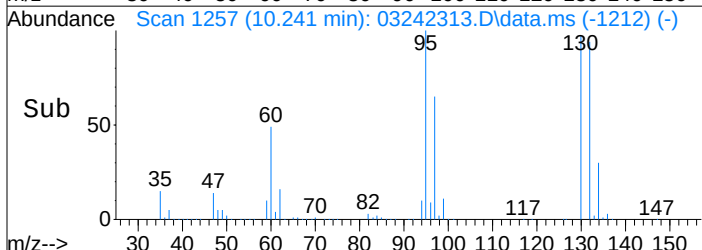
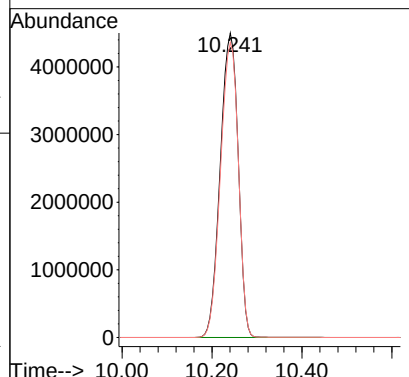
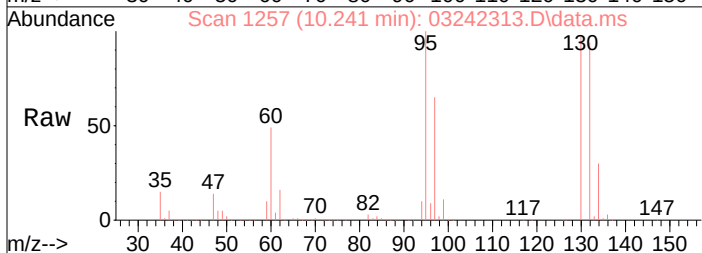
#46
 Bromodichloromethane
 Concen: 1.91 ng
 RT: 10.17 min Scan# 1244
 Delta R.T. 0.006 min
 Lab File: 03242313.D
 Acq: 24 Mar 2023 13:06

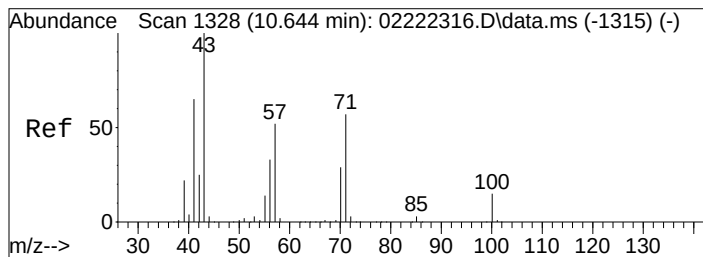
Tgt Ion:	83	Resp:	60666
Ion Ratio		Lower	Upper
83	100		
85	61.9	44.0	84.0



#47
 Trichloroethene
 Concen: 495.74 ng
 RT: 10.24 min Scan# 1257
 Delta R.T. 0.006 min
 Lab File: 03242313.D
 Acq: 24 Mar 2023 13:06

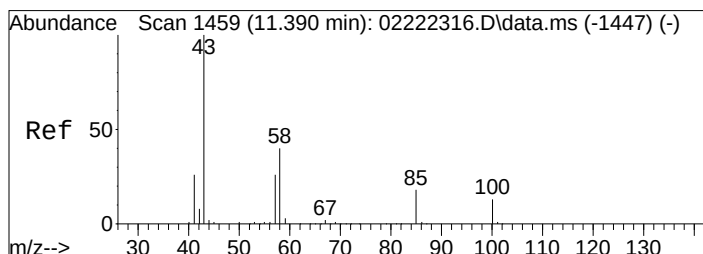
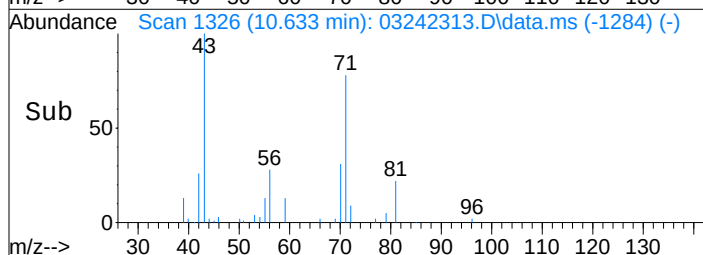
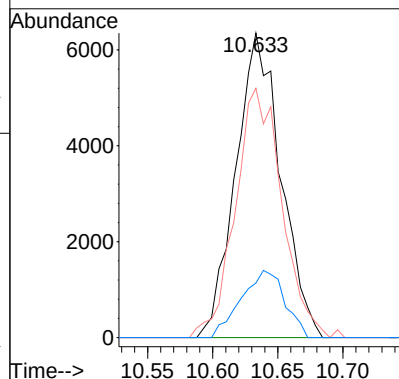
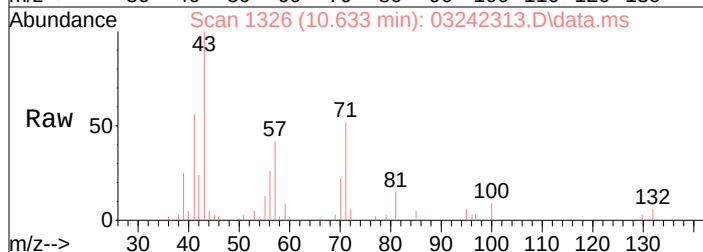
Tgt Ion:	130	Resp:	12461757
Ion Ratio		Lower	Upper
130	100		
132	96.7	76.3	116.3





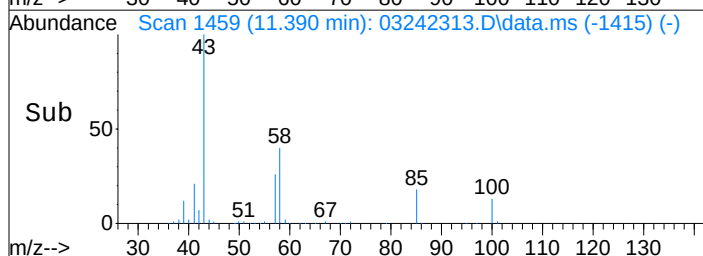
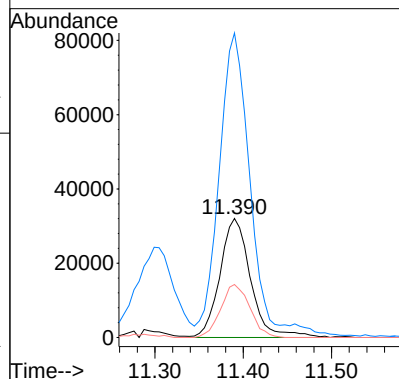
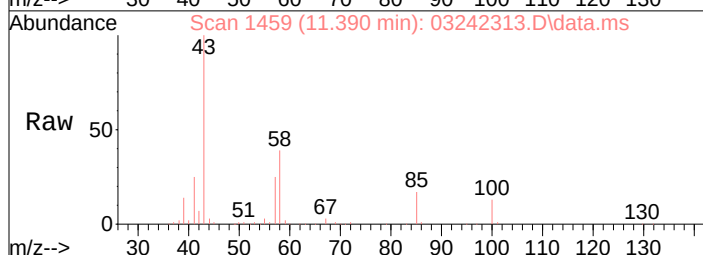
#51
n-Heptane
Concen: 0.74 ng
RT: 10.63 min Scan# 1326
Delta R.T. -0.011 min
Lab File: 03242313.D
Acq: 24 Mar 2023 13:06

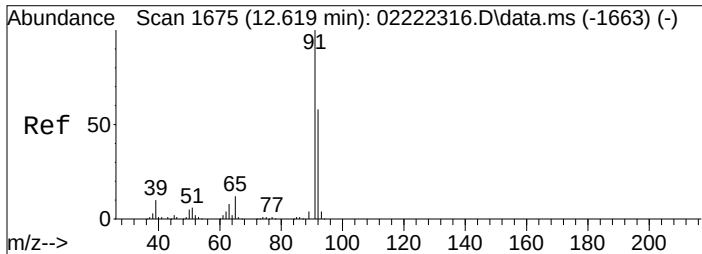
Tgt Ion: 71 Resp: 15267
Ion Ratio Lower Upper
71 100
57 84.8 71.7 111.7
100 21.3 5.8 45.8



#53
4-Methyl-2-pentanone
Concen: 4.19 ng
RT: 11.39 min Scan# 1459
Delta R.T. 0.000 min
Lab File: 03242313.D
Acq: 24 Mar 2023 13:06

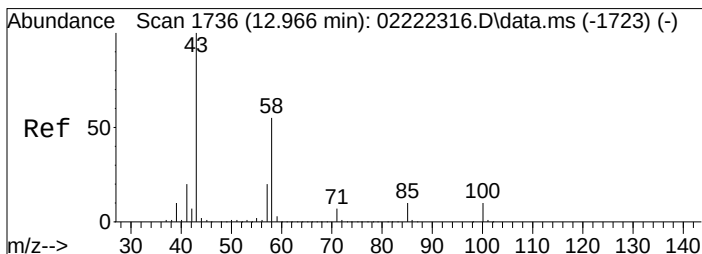
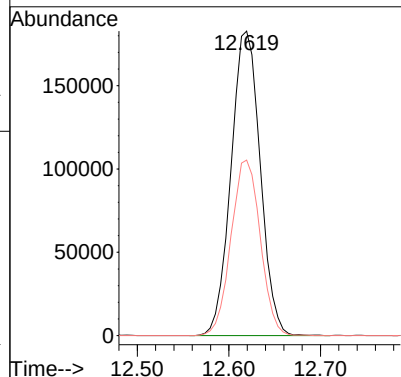
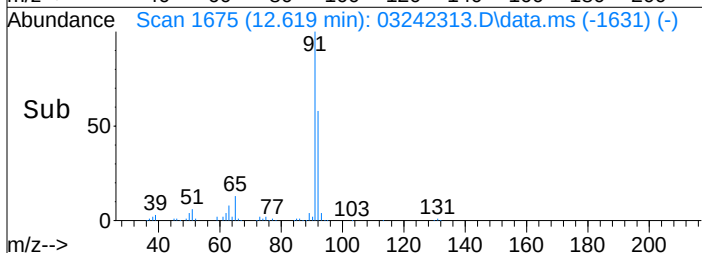
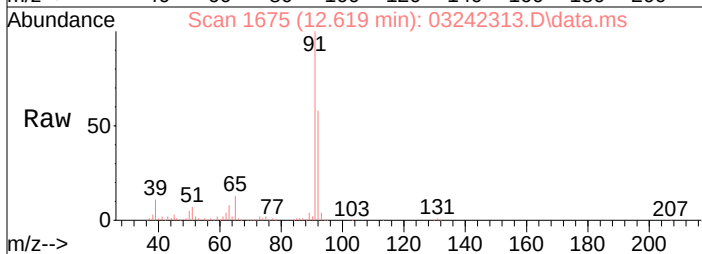
Tgt Ion: 58 Resp: 77502
Ion Ratio Lower Upper
58 100
85 42.1 38.6 58.0
43 255.7 202.2 303.2





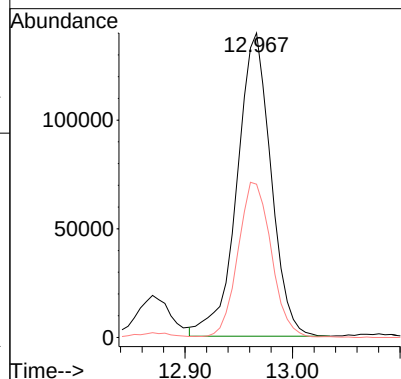
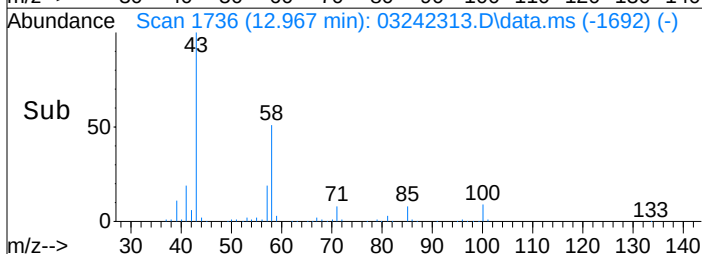
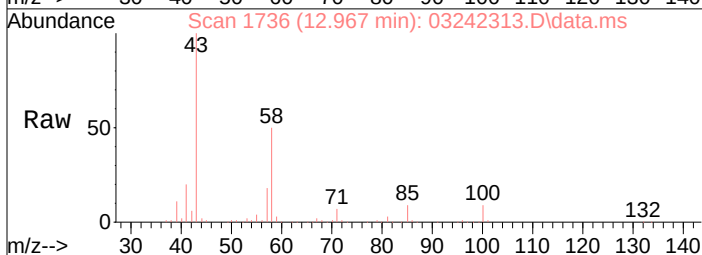
#58
Toluene
Concen: 3.99 ng
RT: 12.62 min Scan# 1675
Delta R.T. 0.000 min
Lab File: 03242313.D
Acq: 24 Mar 2023 13:06

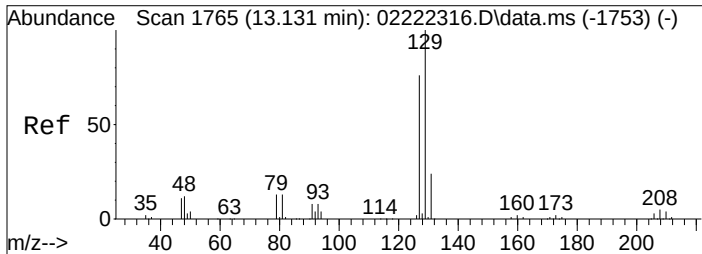
Tgt Ion: 91 Resp: 405582
Ion Ratio Lower Upper
91 100
92 57.7 38.0 78.0



#59
2-Hexanone
Concen: 6.20 ng
RT: 12.97 min Scan# 1736
Delta R.T. 0.000 min
Lab File: 03242313.D
Acq: 24 Mar 2023 13:06

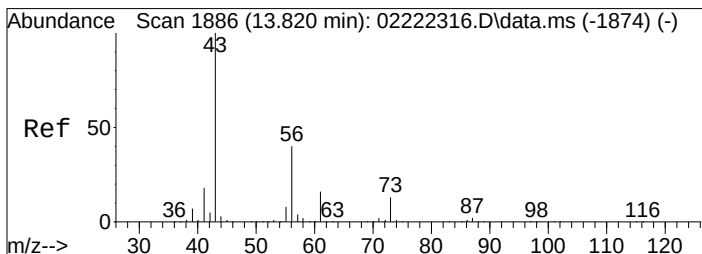
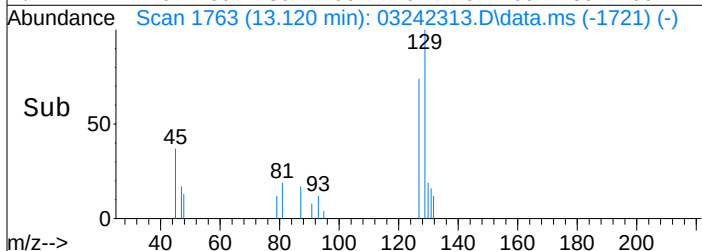
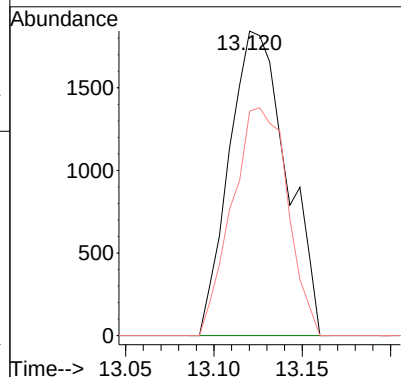
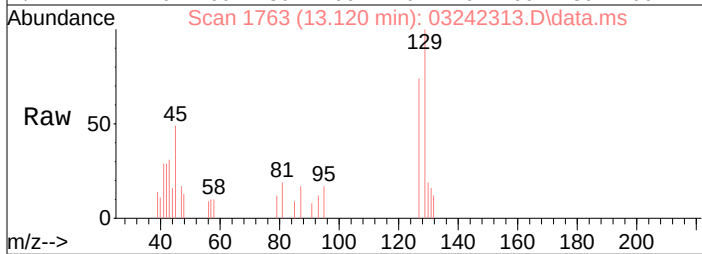
Tgt Ion: 43 Resp: 306166
Ion Ratio Lower Upper
43 100
58 50.5 34.5 74.5





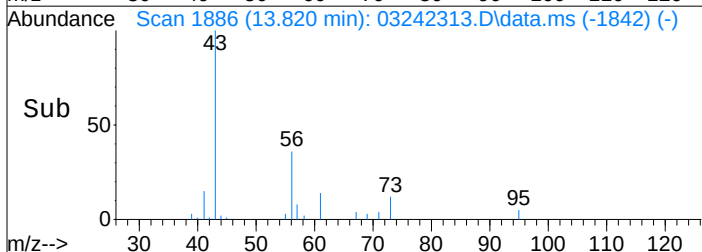
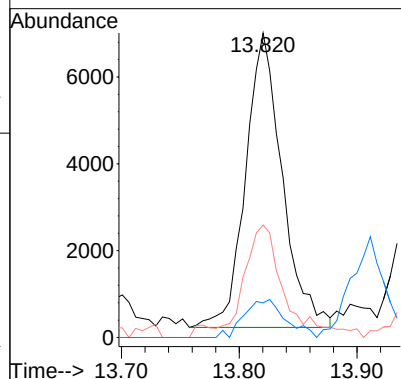
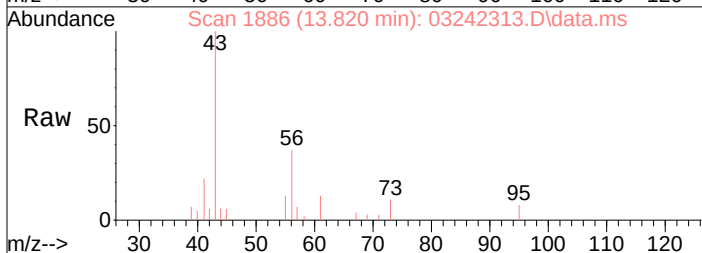
#60
 Dibromochloromethane
 Concen: 0.14 ng
 RT: 13.12 min Scan# 1763
 Delta R.T. -0.011 min
 Lab File: 03242313.D
 Acq: 24 Mar 2023 13:06

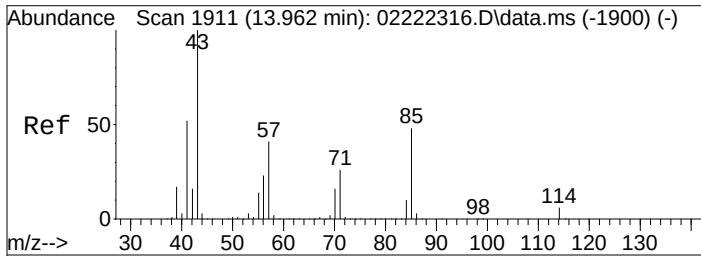
Tgt Ion:	129	Resp:	4172
Ion Ratio	Lower	Upper	
129	100		
127	72.1	57.1	97.1



#62
 n-Butyl Acetate
 Concen: 0.26 ng
 RT: 13.82 min Scan# 1886
 Delta R.T. 0.000 min
 Lab File: 03242313.D
 Acq: 24 Mar 2023 13:06

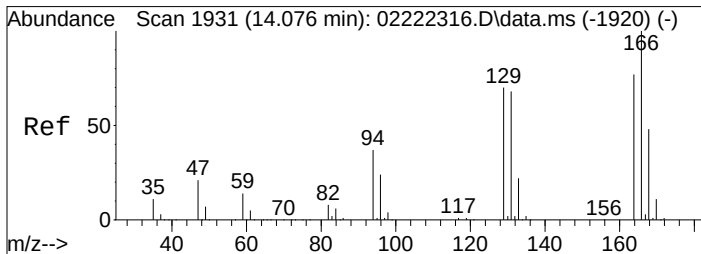
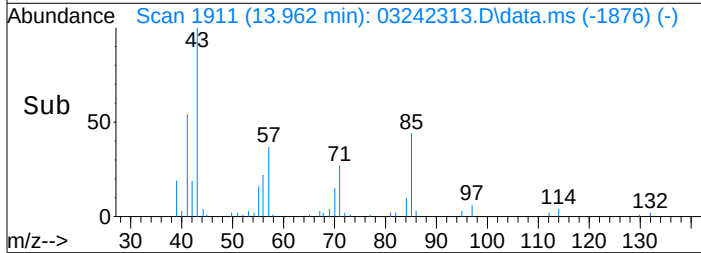
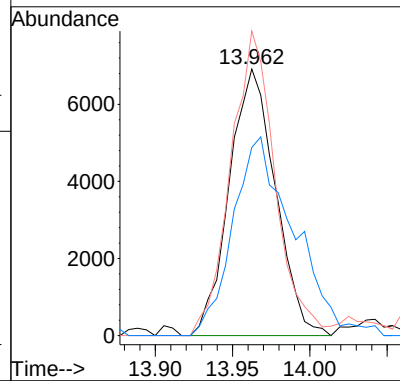
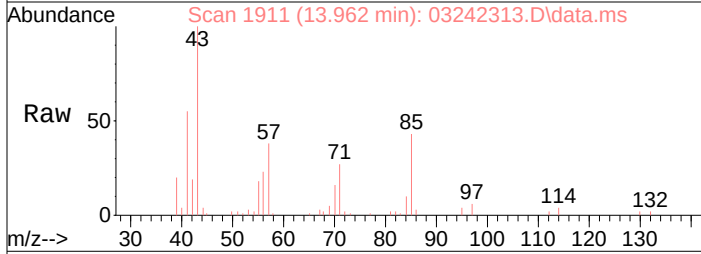
Tgt Ion:	43	Resp:	14639
Ion Ratio	Lower	Upper	
43	100		
56	41.5	20.0	60.0
73	14.6	0.0	33.2





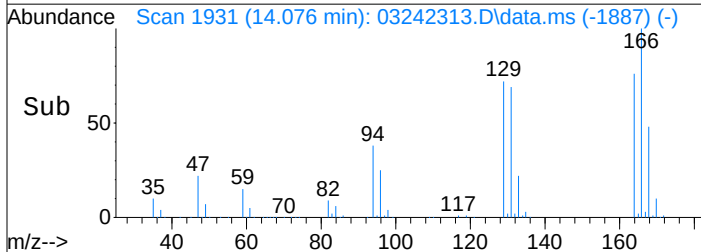
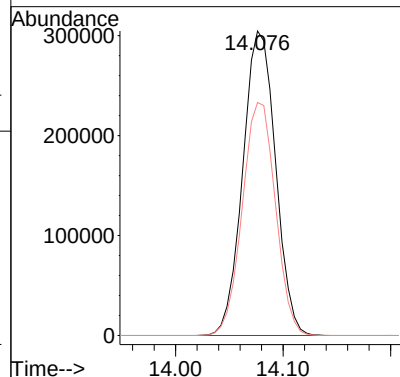
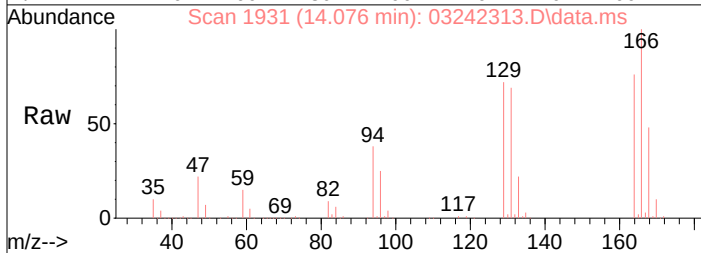
#63
n-Octane
Concen: 0.72 ng
RT: 13.96 min Scan# 1911
Delta R.T. 0.000 min
Lab File: 03242313.D
Acq: 24 Mar 2023 13:06

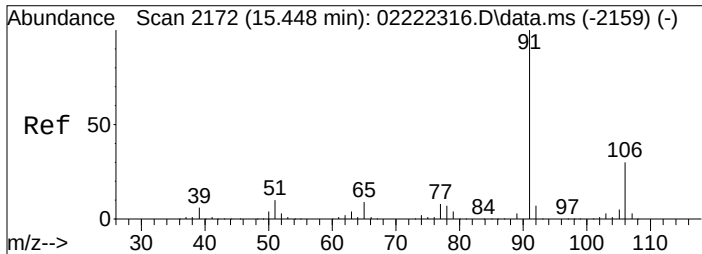
Tgt Ion: 57 Resp: 14411
Ion Ratio Lower Upper
57 100
85 109.9 94.1 141.1
71 98.3 52.6 79.0#



#64
Tetrachloroethene
Concen: 20.90 ng
RT: 14.08 min Scan# 1931
Delta R.T. 0.000 min
Lab File: 03242313.D
Acq: 24 Mar 2023 13:06

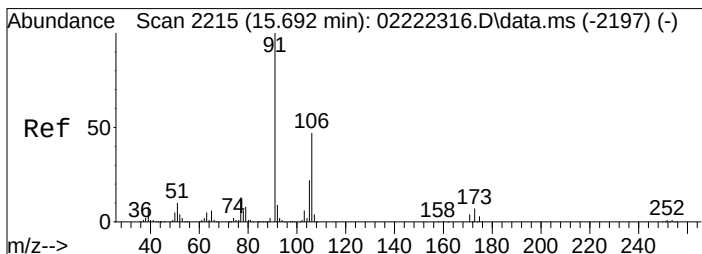
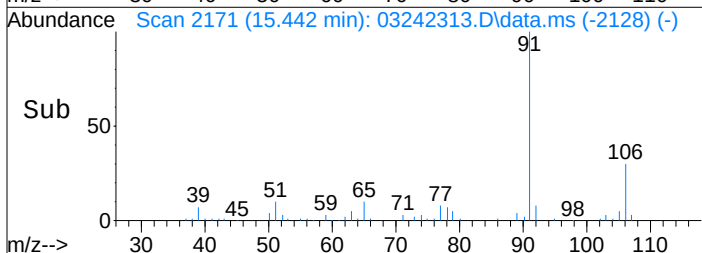
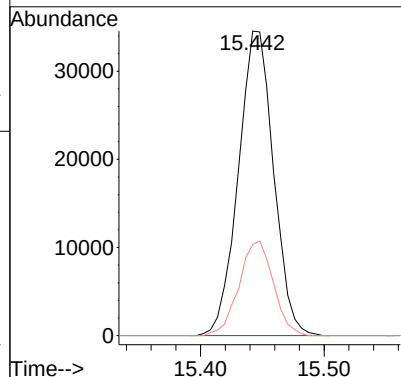
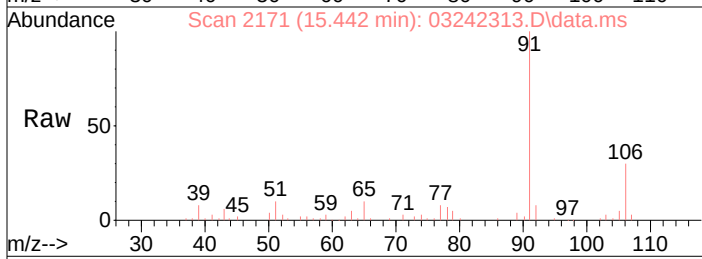
Tgt Ion: 166 Resp: 646111
Ion Ratio Lower Upper
166 100
164 77.4 57.3 97.3





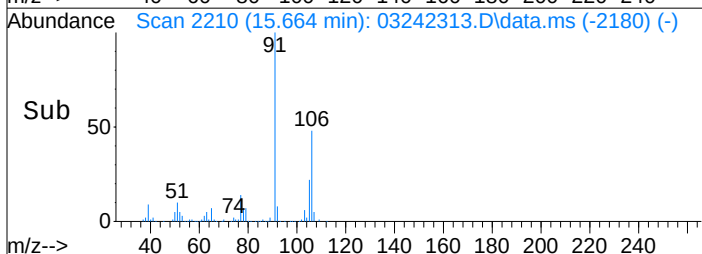
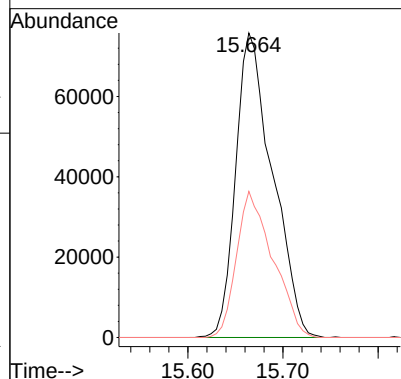
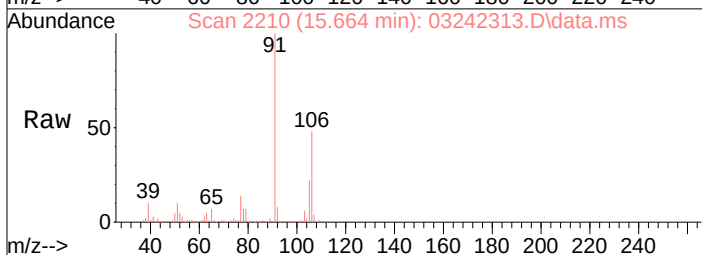
#66
Ethylbenzene
Concen: 0.57 ng
RT: 15.44 min Scan# 2171
Delta R.T. -0.006 min
Lab File: 03242313.D
Acq: 24 Mar 2023 13:06

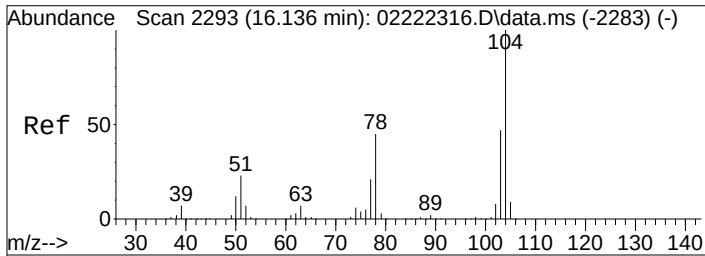
Tgt Ion	91	106	Resp	68540	Lower	Upper
Ion Ratio	100	30.3			10.4	50.4



#67
m- & p-Xylenes
Concen: 2.08 ng
RT: 15.66 min Scan# 2210
Delta R.T. -0.028 min
Lab File: 03242313.D
Acq: 24 Mar 2023 13:06

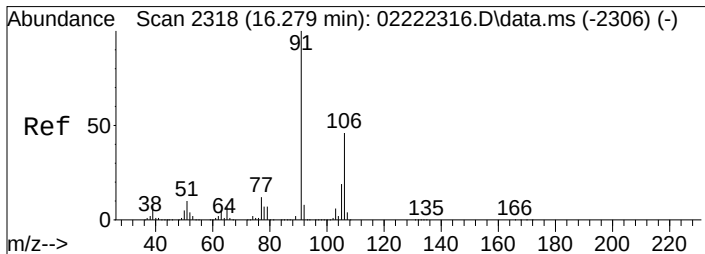
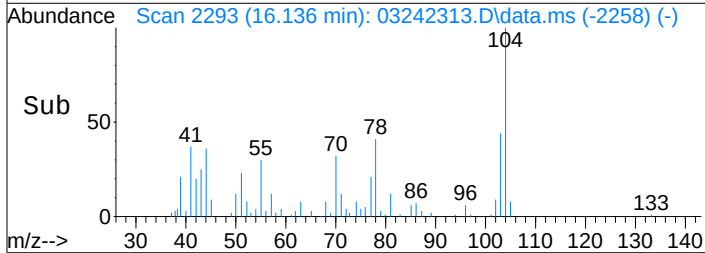
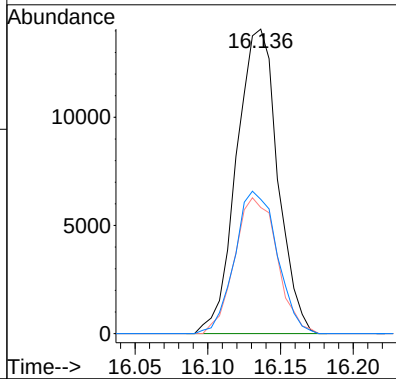
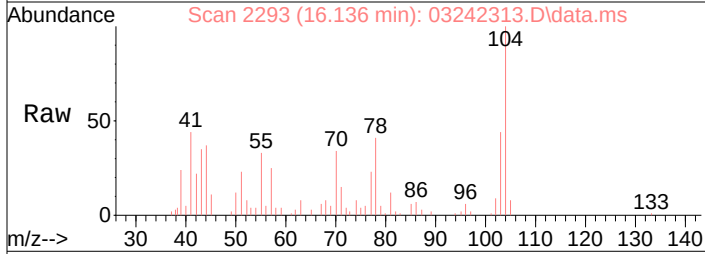
Tgt Ion	91	106	Resp	203367	Lower	Upper
Ion Ratio	100	47.5			26.2	66.2





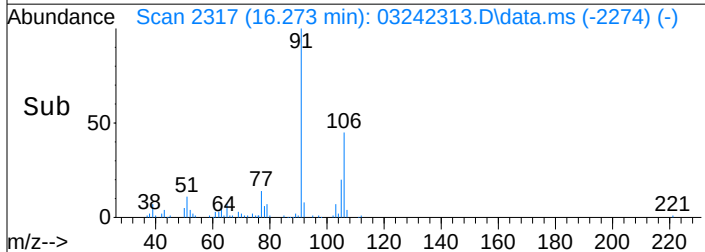
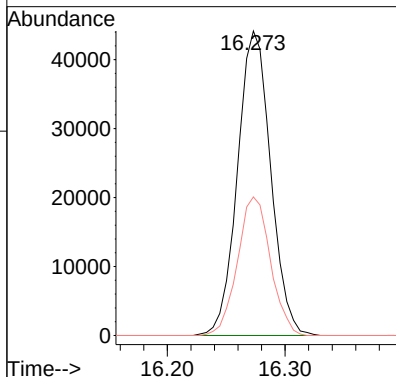
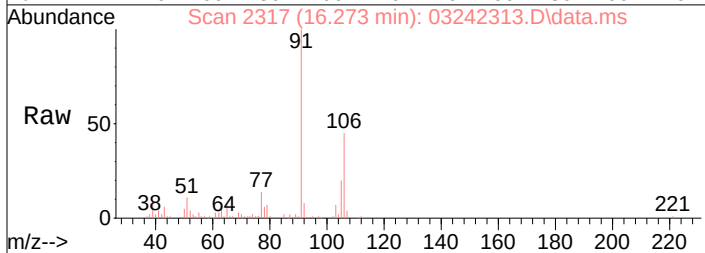
#69
Styrene
Concen: 0.41 ng
RT: 16.14 min Scan# 2293
Delta R.T. 0.000 min
Lab File: 03242313.D
Acq: 24 Mar 2023 13:06

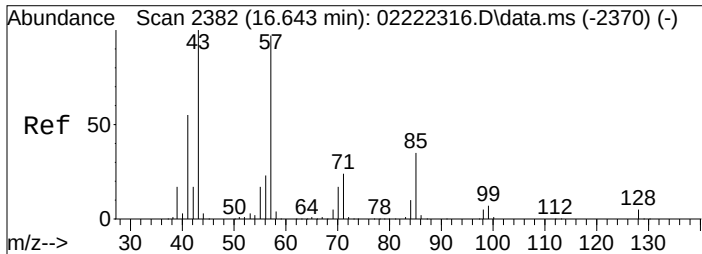
Tgt Ion	Ratio	Resp	Lower	Upper
104	100	27740		
78	45.9	24.7	64.7	
103	48.1	27.8	67.8	



#70
o-Xylene
Concen: 0.93 ng
RT: 16.27 min Scan# 2317
Delta R.T. -0.006 min
Lab File: 03242313.D
Acq: 24 Mar 2023 13:06

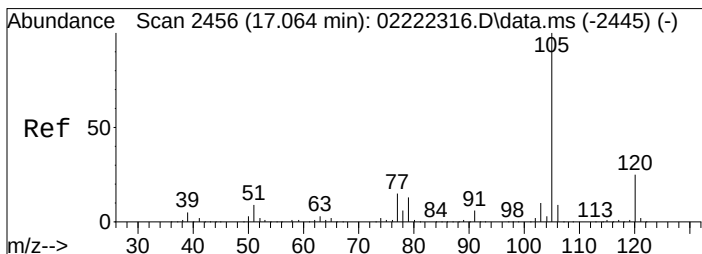
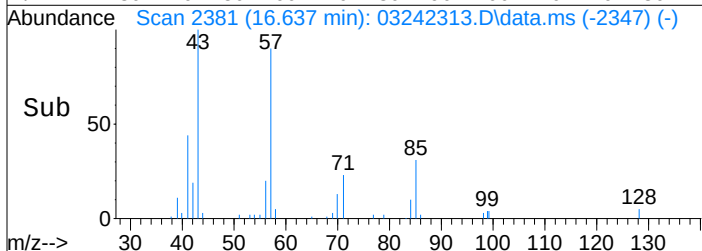
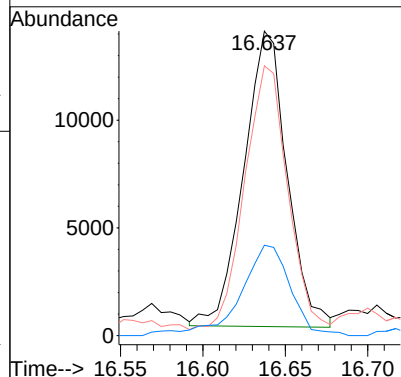
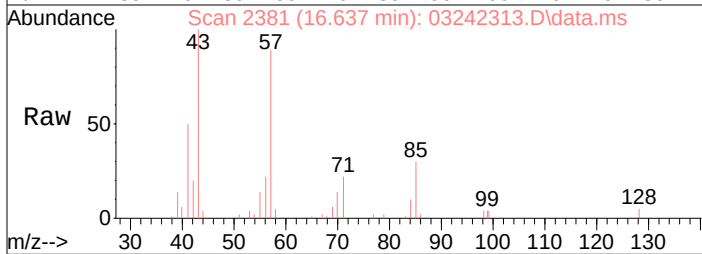
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	86526		
106	45.2	25.4	65.4	





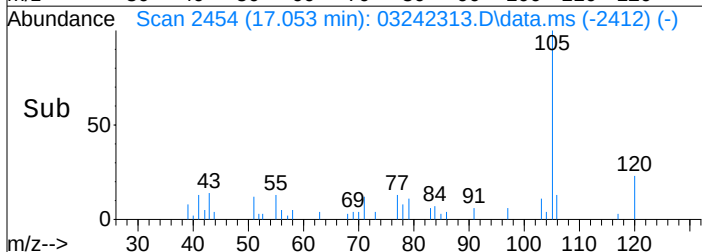
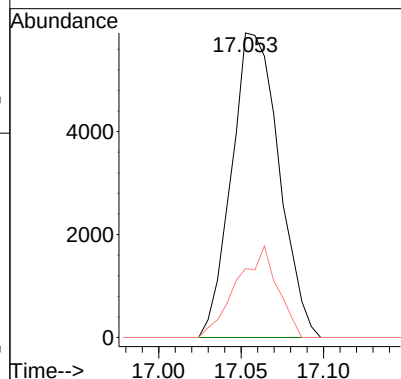
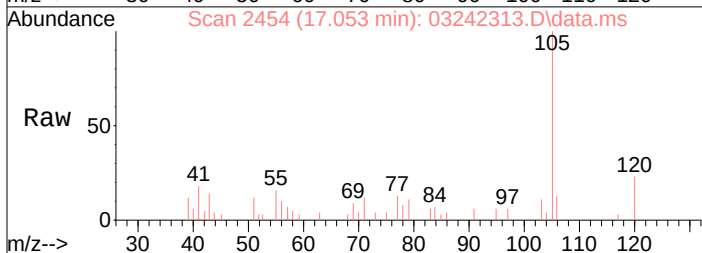
#71
n-Nonane
Concen: 0.56 ng
RT: 16.64 min Scan# 2381
Delta R.T. -0.006 min
Lab File: 03242313.D
Acq: 24 Mar 2023 13:06

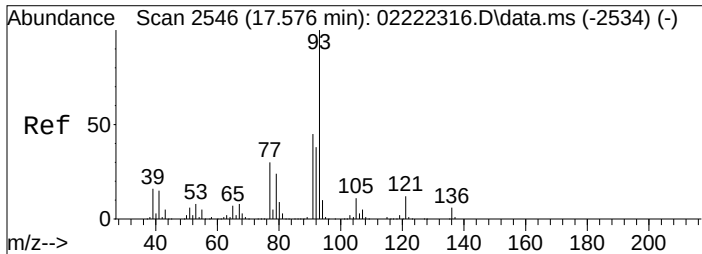
Tgt Ion:	43	Resp:	25130
Ion Ratio		Lower	Upper
43	100		
57	88.4	74.2	114.2
85	35.3	14.2	54.2



#74
Cumene
Concen: 0.10 ng
RT: 17.05 min Scan# 2454
Delta R.T. -0.011 min
Lab File: 03242313.D
Acq: 24 Mar 2023 13:06

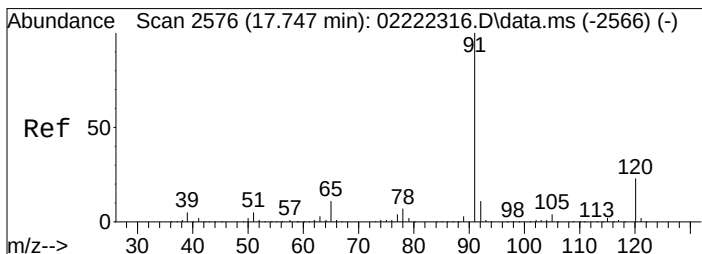
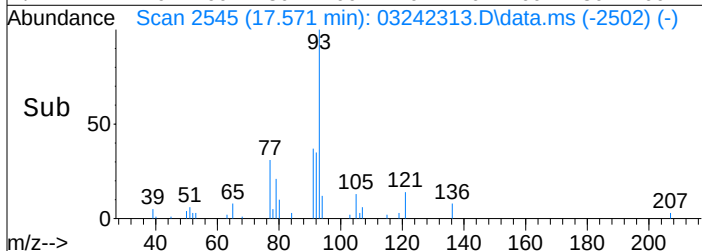
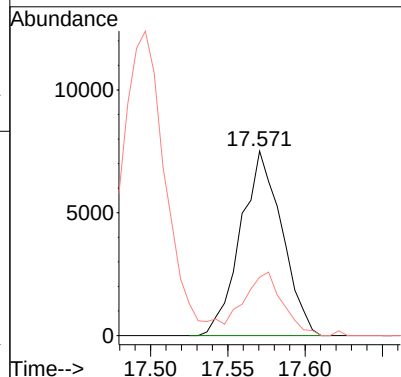
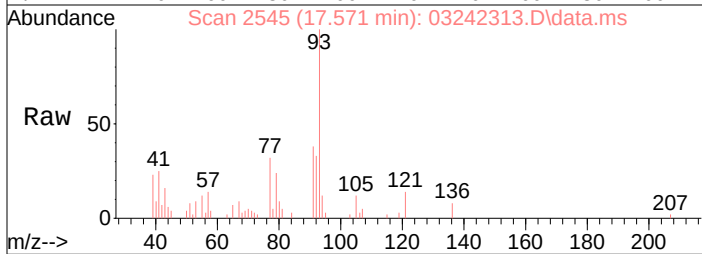
Tgt Ion:	105	Resp:	11841
Ion Ratio		Lower	Upper
105	100		
120	25.8	5.2	45.2





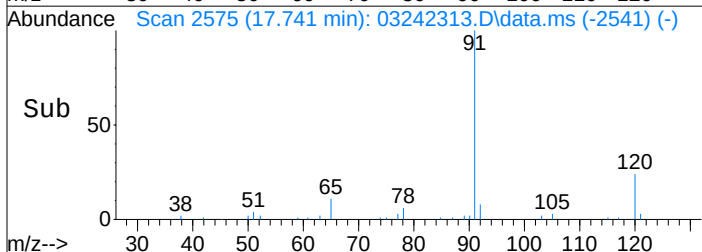
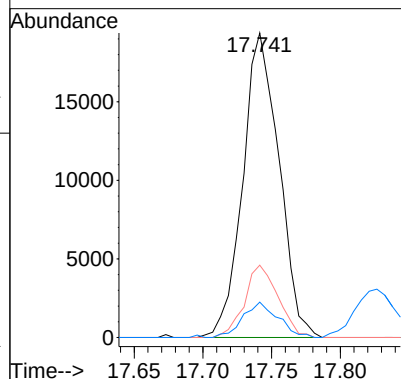
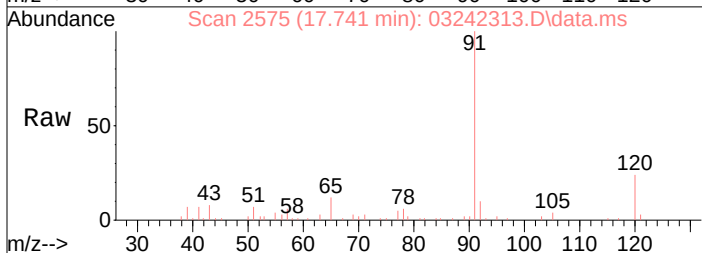
#75
 alpha-Pinene
 Concen: 0.27 ng
 RT: 17.57 min Scan# 2545
 Delta R.T. -0.006 min
 Lab File: 03242313.D
 Acq: 24 Mar 2023 13:06

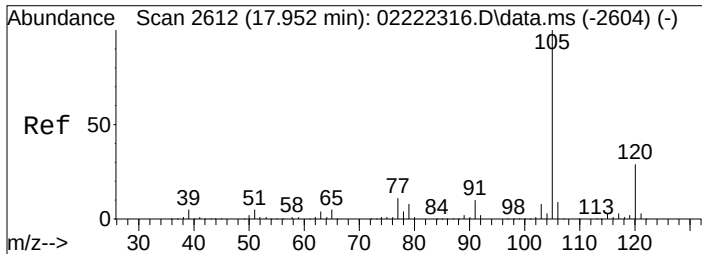
Tgt Ion: 93 Resp: 14041
 Ion Ratio Lower Upper
 93 100
 77 31.8 11.1 51.1



#76
 n-Propylbenzene
 Concen: 0.26 ng
 RT: 17.74 min Scan# 2575
 Delta R.T. -0.006 min
 Lab File: 03242313.D
 Acq: 24 Mar 2023 13:06

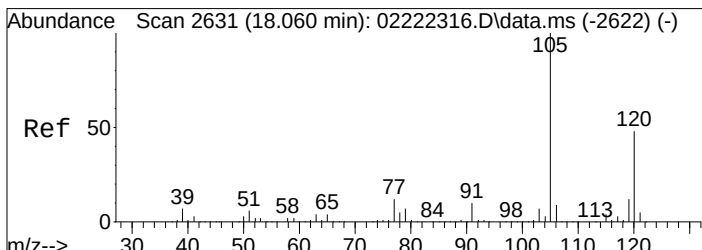
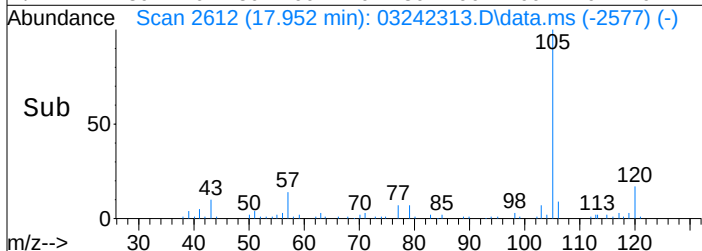
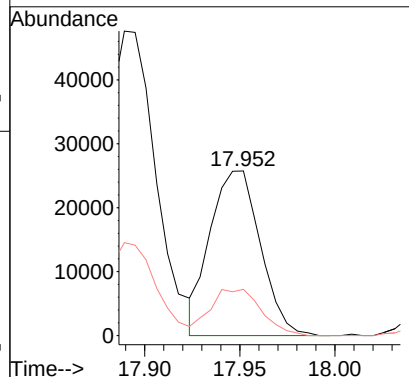
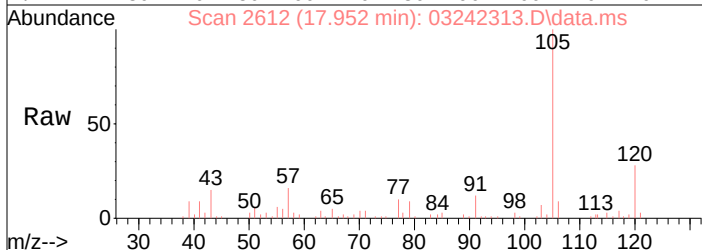
Tgt Ion: 91 Resp: 35484
 Ion Ratio Lower Upper
 91 100
 120 22.1 2.7 42.7
 65 11.3 0.0 30.7





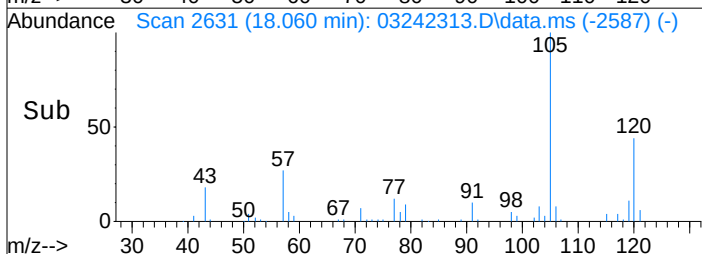
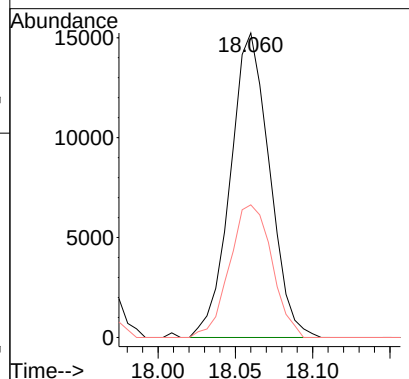
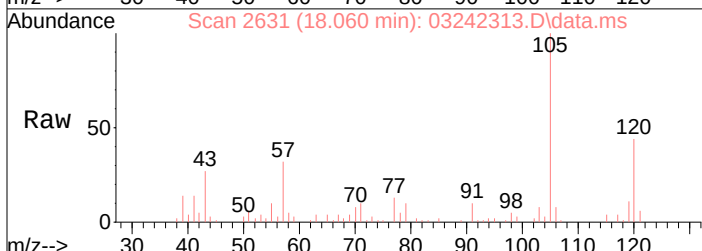
#78
 4-Ethyltoluene
 Concen: 0.43 ng
 RT: 17.95 min Scan# 2612
 Delta R.T. 0.000 min
 Lab File: 03242313.D
 Acq: 24 Mar 2023 13:06

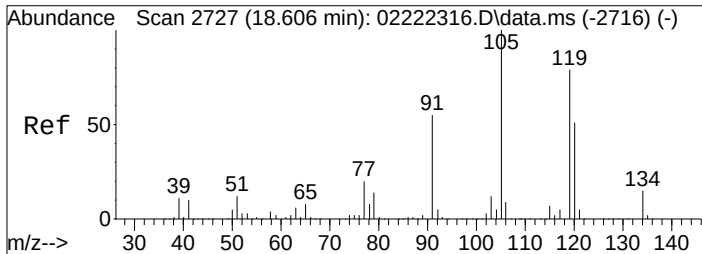
Tgt Ion:	105	Resp:	47353
Ion Ratio	Lower	Upper	
105	100		
120	28.6	9.1	49.1



#79
 1,3,5-Trimethylbenzene
 Concen: 0.28 ng
 RT: 18.06 min Scan# 2631
 Delta R.T. 0.000 min
 Lab File: 03242313.D
 Acq: 24 Mar 2023 13:06

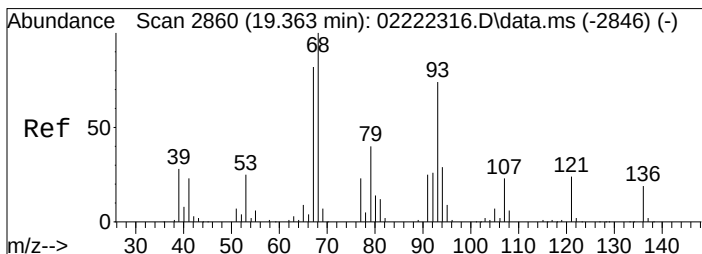
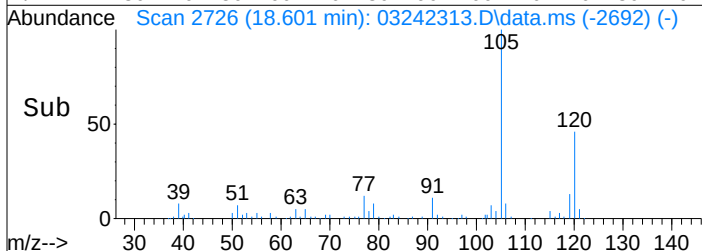
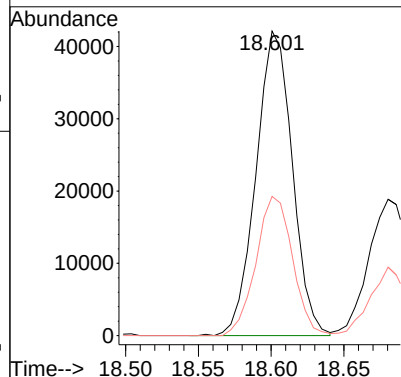
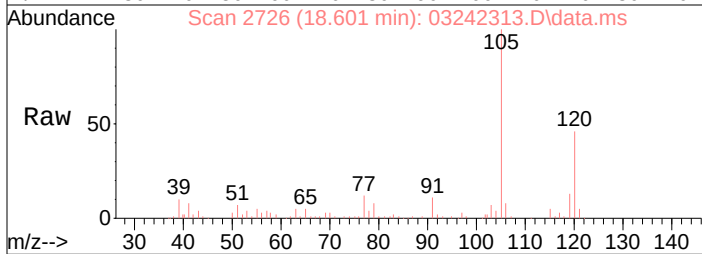
Tgt Ion:	105	Resp:	26897
Ion Ratio	Lower	Upper	
105	100		
120	47.0	28.4	68.4





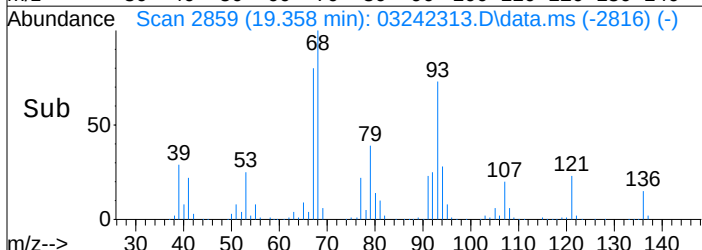
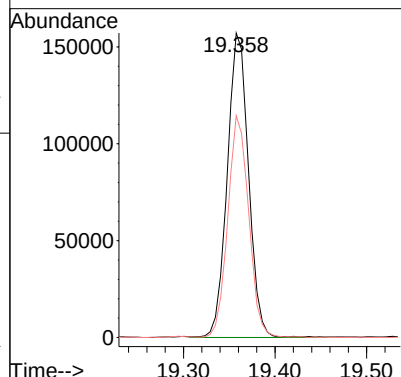
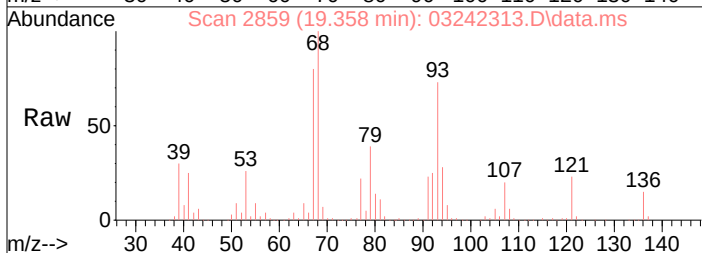
#82
 1,2,4-Trimethylbenzene
 Concen: 0.77 ng
 RT: 18.60 min Scan# 2726
 Delta R.T. -0.006 min
 Lab File: 03242313.D
 Acq: 24 Mar 2023 13:06

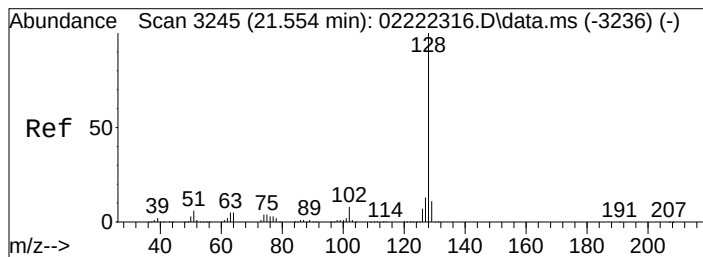
Tgt Ion: 105 Resp: 73262
 Ion Ratio Lower Upper
 105 100
 120 46.0 32.8 72.8



#91
 d-Limonene
 Concen: 7.90 ng
 RT: 19.36 min Scan# 2859
 Delta R.T. -0.006 min
 Lab File: 03242313.D
 Acq: 24 Mar 2023 13:06

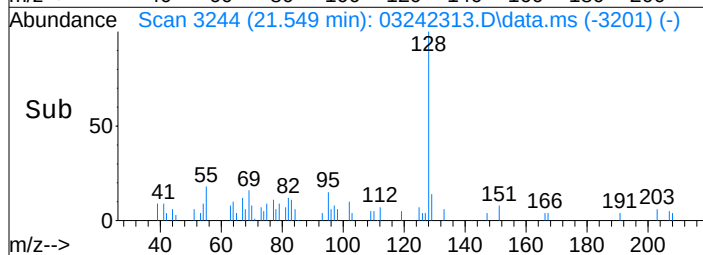
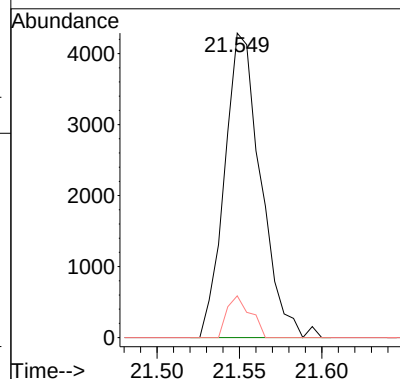
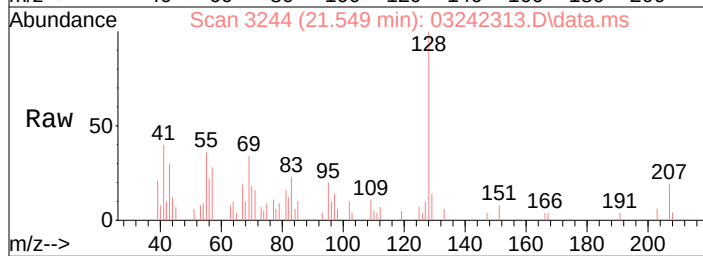
Tgt Ion: 68 Resp: 253692
 Ion Ratio Lower Upper
 68 100
 93 71.8 54.8 94.8





#95
 Naphthalene
 Concen: 0.06 ng
 RT: 21.55 min Scan# 3244
 Delta R.T. -0.006 min
 Lab File: 03242313.D
 Acq: 24 Mar 2023 13:06

Tgt Ion:128 Resp: 6547
 Ion Ratio Lower Upper
 128 100
 129 8.8 0.0 30.9



Data File : I:\MS13\DATA\2023_03\24\03242313.D
 Acq On : 24 Mar 2023 13:06
 Sample : P2301250-011 (1000mL)
 Misc : S35-01202301

Vial: 4
 Operator: TZ
 Inst : MS13

T 3/28/23

Quant Time: Mar 28 09:44:40 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.34	130	250997	12.500	ng	0.02
16) 1,4-Difluorobenzene (C_2)	9.40	114	1102989	12.500	ng	0.02
19) Chlorobenzene-d5 (C_3)	14.88	54	207604	12.500	ng	0.00

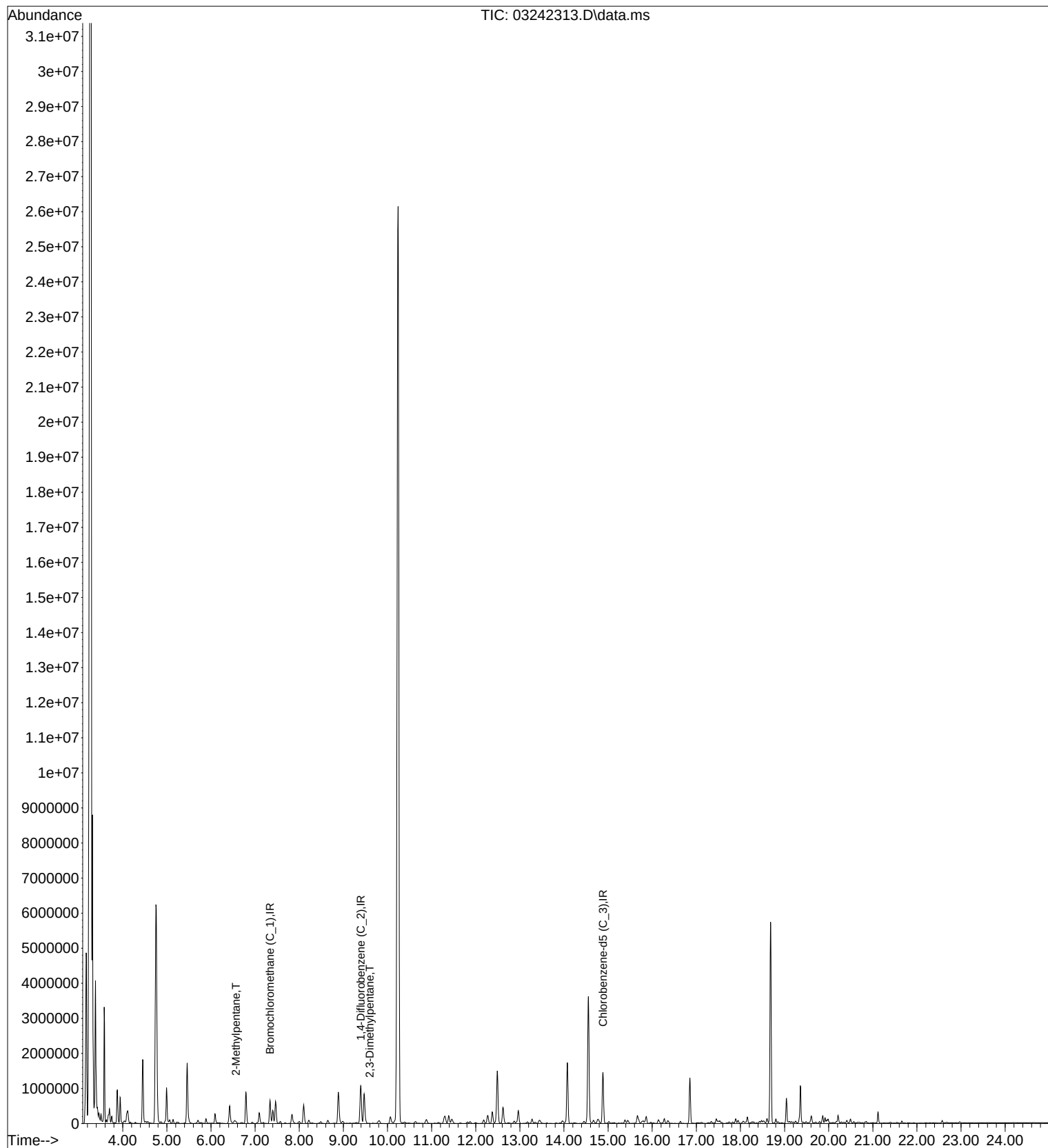
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	0.00	85	0	N.D.	d	
3) 1,1,1,2-Tetrafluoroeth...	0.00	83	0	N.D.	d	
4) 1,1-Difluoroethane	3.35	65	1592	N.D.		
5) Chlorodifluoromethane ...	0.00	67	0	N.D.	d	
6) 1-Chloro-1,1-Difluoroe...	3.63	65	2288	N.D.		
7) Dichlorofluoromethane ...	4.34	67	393	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	4.67	83	63	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	0.00	43	0	N.D.	d	
12) 2-Methylpentane	6.57	71	9054	0.516	ng	# 1
13) 2,2-Dichloropropane	7.54	77	68	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	9.15	84	1906	N.D.		
17) 2,3-Dimethylpentane	9.60	56	4223	0.130	ng	# 43
18) Dibromomethane	9.89	174	479	N.D.		
20) Methyl Cyclohexane	0.00	55	0	N.D.	d	
21) 1,3-Dichloropropane	12.61	76	3234	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	15.23	91	382	N.D.		
24) 1,2,3-Trichloropropane	0.00	75	0	N.D.	d	
25) Bromobenzene	17.12	77	118	N.D.		
26) 2-Chlorotoluene	0.00	91	0	N.D.	d	
27) 4-Chlorotoluene	0.00	91	0	N.D.	d	
28) Indane	19.39	117	7106	N.D.		
29) Indene	19.50	115	959	N.D.		
30) 1,2,4,5-Tetramethylben...	20.70	119	3350	N.D.		
31) 1,2,3,4-Tetramethylben...	20.70	119	3350	N.D.		
32) 1,2,3,5-Tetramethylben...	21.14	119	2907	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242313.D
Acq On : 24 Mar 2023 13:06
Sample : P2301250-011 (1000mL)
Misc : S35-01202301

Vial: 4
Operator: TZ
Inst : MS13

Quant Time: Mar 28 09:44:40 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242317.D
 Acq On : 24 Mar 2023 15:35
 Sample : P2301250-011dil (50mL)
 Misc : S35-01202301

Vial: 4
 Operator: TZ
 Inst : MS13

Tz 3/27/23

Quant Time: Mar 27 12:10:37 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	240214	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	9.38	114	1023652	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	193306	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	401573	12.597	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	100.80%
57) Toluene-d8 (SS2)	12.48	98	1165680	11.726	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.84%
73) Bromofluorobenzene (SS3)	16.85	174	443721	12.186	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	97.52%

Target Compounds

						Qvalue
2) Propene	3.39	42	6538	0.272	ng	# 61
3) Dichlorodifluoromethan...	3.46	85	3208	0.073	ng	# 88
4) Chloromethane	3.64	50	292	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	4.41	45	93795	5.498	ng	99
11) Acetonitrile	4.57	41	846	N.D.		
12) Acrolein	4.65	56	291	N.D.		
13) Acetone	4.74	58	126768	8.706	ng	97
14) Trichlorofluoromethane	4.88	101	1328	N.D.		
15) 2-Propanol (Isopropanol)	4.95	45	59015	1.004	ng	87
16) Acrylonitrile	5.08	53	152	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.47	84	3959	0.185	ng	98
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	5.69	151	107	N.D.		
22) Carbon Disulfide	5.73	76	11804	0.140	ng	97
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	6.42	63	201	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone (MEK)	6.76	72	10514	0.813	ng	# 85
28) cis-1,2-Dichloroethene	7.16	61	942	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	7.38	61	2327	0.274	ng	94
31) n-Hexane	7.39	57	855	N.D.		
32) Chloroform	7.45	83	22685	0.586	ng	98
34) Tetrahydrofuran (THF)	7.87	72	801	0.060	ng	# 1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.09	62	121	N.D.		
38) 1,1,1-Trichloroethane	8.47	97	1296	N.D.		
39) Isopropyl Acetate	9.38	61	29214	No Calib		
40) 1-Butanol	8.90	56	21078	No Calib	#	
41) Benzene	8.98	78	3014	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	9.36	84	671	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	10.14	83	2506	0.085	ng	99
47) Trichloroethene	10.21	130	684302	29.332	ng	100
48) 1,4-Dioxane	10.22	88	436	N.D.		
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS13\DATA\2023_03\24\03242317.D
 Acq On : 24 Mar 2023 15:35
 Sample : P2301250-011dil (50mL)
 Misc : S35-01202301

Vial: 4
 Operator: TZ
 Inst : MS13

Quant Time: Mar 27 12:10:37 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

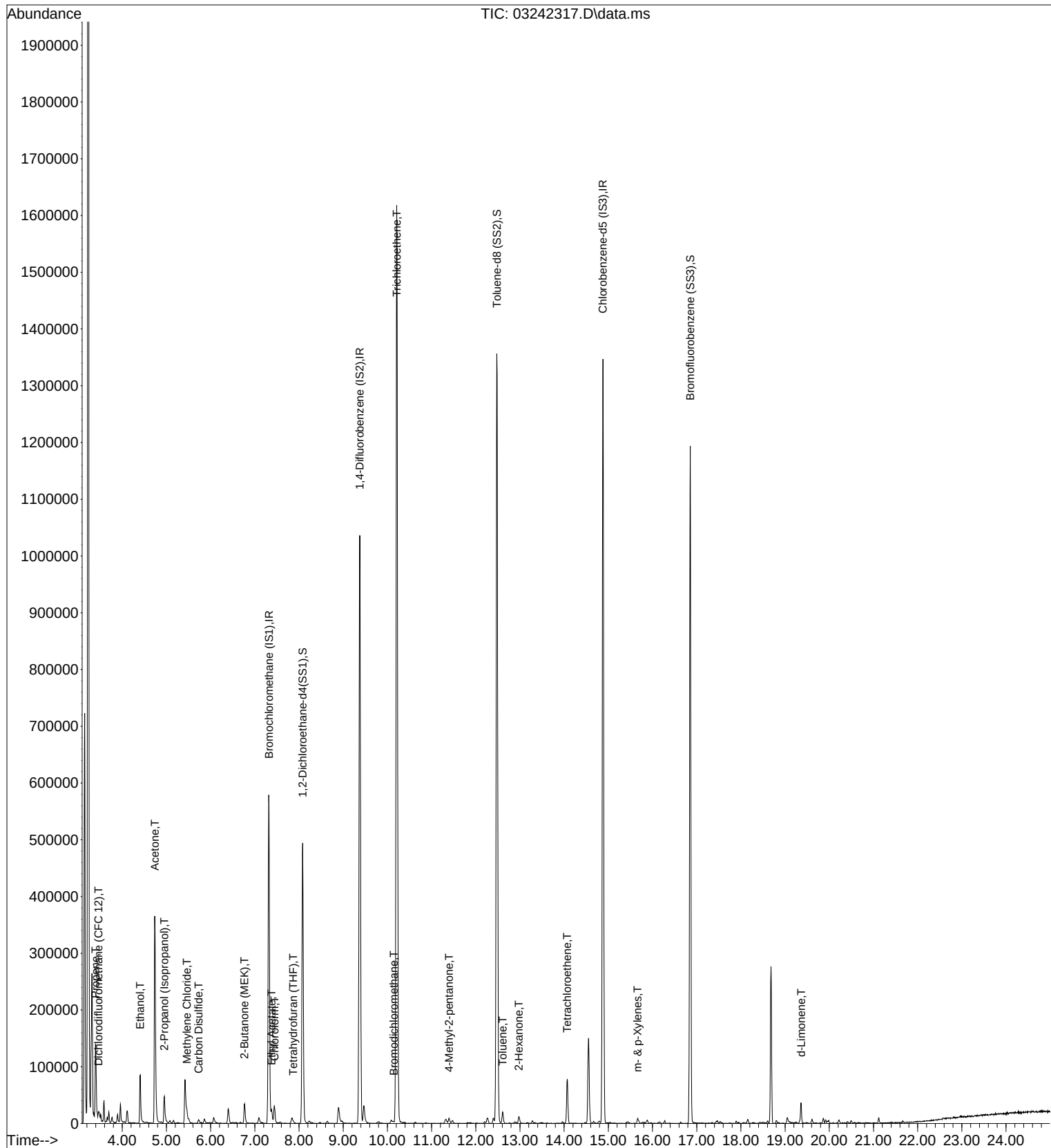
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.63	71	482	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.40	58	2945	0.172	ng	86
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.61	91	18165	0.192	ng	99
59) 2-Hexanone	12.97	43	12007	0.261	ng	92
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.84	43	382	N.D.		
63) n-Octane	13.95	57	530	N.D.		
64) Tetrachloroethene	14.07	166	28810	1.001	ng	99
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	15.44	91	3316	N.D.		
67) m- & p-Xylenes	15.66	91	9083	0.100	ng	100
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.14	104	1075	N.D.		
70) o-Xylene	16.28	91	3671	N.D.		
71) n-Nonane	16.64	43	1023	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	17.05	105	460	N.D.		
75) alpha-Pinene	17.57	93	609	N.D.		
76) n-Propylbenzene	17.75	91	1360	N.D.		
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	1967	N.D.		
79) 1,3,5-Trimethylbenzene	18.05	105	1174	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.61	105	3108	N.D.		
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	18.67	146	234	N.D.		
86) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
87) sec-Butylbenzene	18.96	105	192	N.D.		
88) 4-Isopropyltoluene (p-...	19.18	119	493	N.D.		
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	19.36	68	9090	0.304	ng	98
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	21.43	180	230	N.D.		
95) Naphthalene	21.57	128	553	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	21.99	225	168	N.D.		
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	18.61	119	510	N.D.		
100) n-Butylbenzene	19.72	91	541	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242317.D
Acq On : 24 Mar 2023 15:35
Sample : P2301250-011dil (50mL)
Misc : S35-01202301

Vial: 4
Operator: TZ
Inst : MS13

Quant Time: Mar 27 12:10:37 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:TO15.M

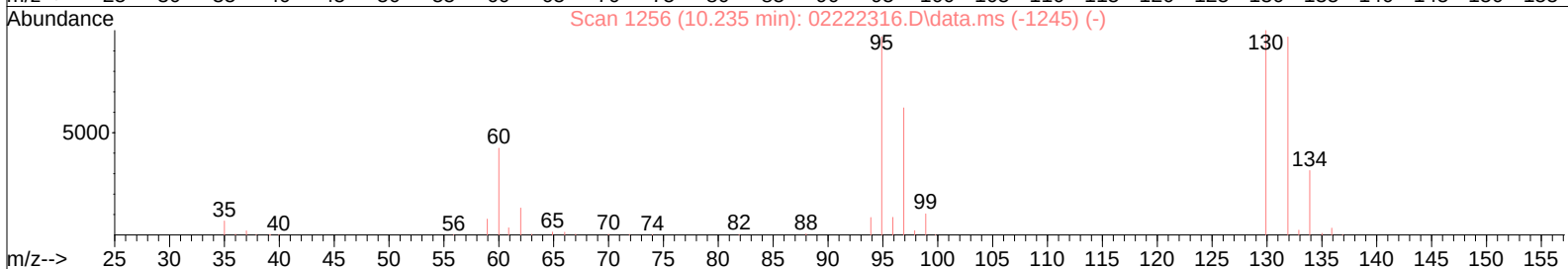
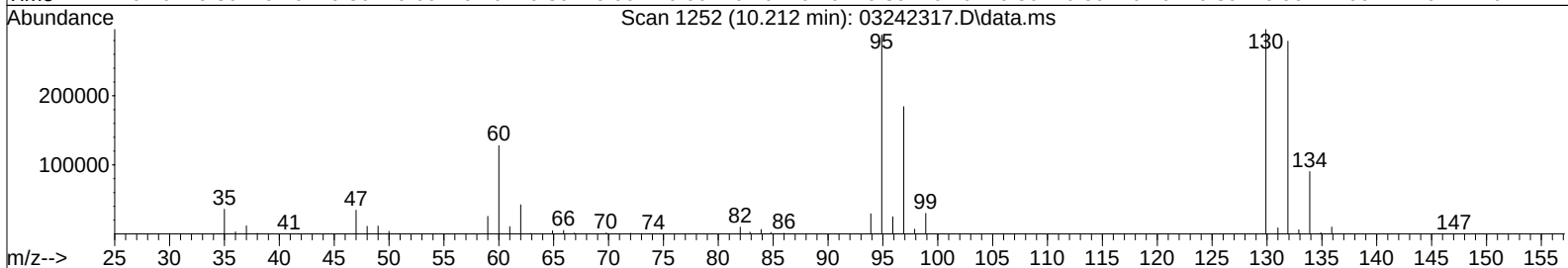
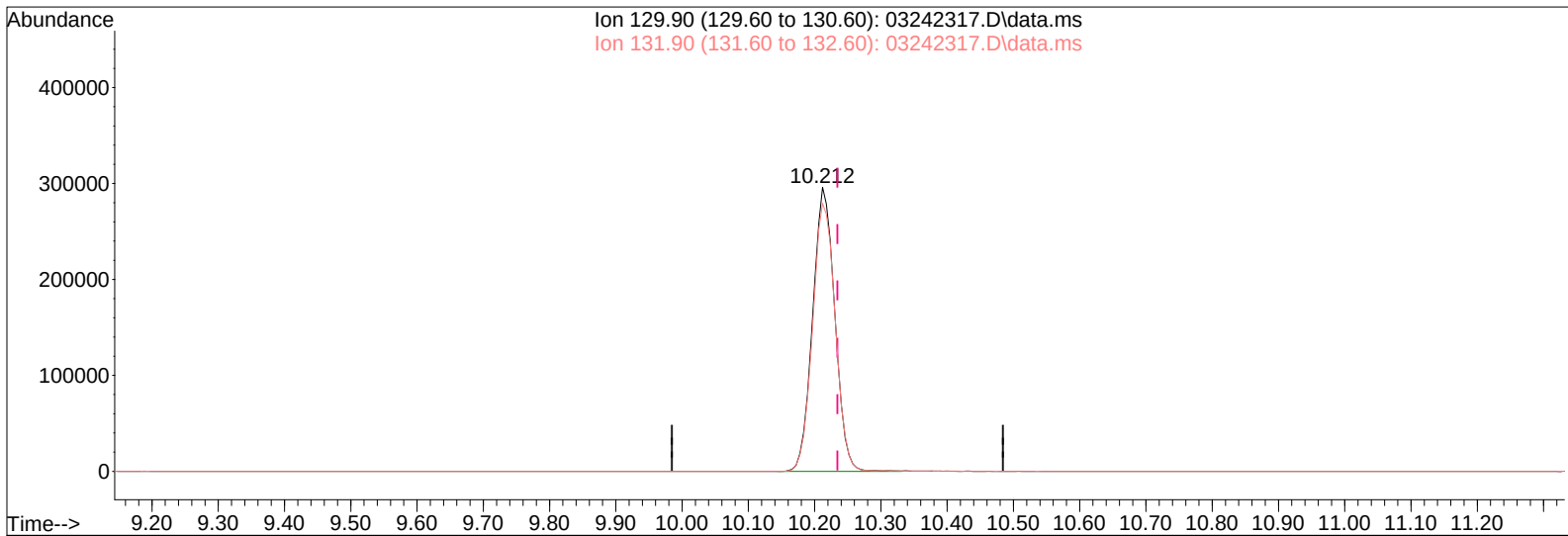


Quantitation Report (Qedit)

Data File : I:\MS13\DATA\2023_03\24\03242317.D
 Acq On : 24 Mar 2023 15:35
 Sample : P2301250-011dil (50mL)
 Misc : S35-01202301

Vial: 4
 Operator: TZ
 Inst : MS13

Quant Time: Mar 25 06:49:31 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M



TIC: 03242317.D\data.ms

(47) Trichloroethene (T)

10.212min (-0.023) 29.33ng

response 684302

Ion	Exp%	Act%
129.90	100	100
131.90	96.30	96.43
0.00	0.00	0.00
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG10

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02288

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -4.07 Final Pressure (psig): 3.86

Container Dilution Factor: 1.75

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	0.93	0.15	0.49	0.19	0.031	
74-87-3	Chloromethane	ND	0.37	0.15	ND	0.18	0.073	
75-01-4	Vinyl Chloride	0.10	0.19	0.10	0.039	0.075	0.039	J
74-83-9	Bromomethane	ND	0.37	0.13	ND	0.095	0.033	
75-00-3	Chloroethane	ND	0.37	0.12	ND	0.14	0.044	
67-64-1	Acetone	82	9.2	2.1	35	3.9	0.88	
75-69-4	Trichlorofluoromethane	1.1	0.91	0.14	0.19	0.16	0.025	
75-35-4	1,1-Dichloroethene	ND	0.19	0.13	ND	0.049	0.033	
75-09-2	Methylene Chloride	2.4	0.93	0.26	0.68	0.27	0.076	
76-13-1	Trichlorotrifluoroethane	0.54	0.95	0.13	0.070	0.12	0.017	J
75-15-0	Carbon Disulfide	0.30	1.9	0.28	0.097	0.60	0.090	J
156-60-5	trans-1,2-Dichloroethene	ND	0.19	0.13	ND	0.049	0.033	
75-34-3	1,1-Dichloroethane	2.5	0.19	0.14	0.62	0.048	0.034	
1634-04-4	Methyl tert-Butyl Ether	ND	0.95	0.11	ND	0.26	0.031	
78-93-3	2-Butanone (MEK)	3.4	1.8	0.19	1.1	0.62	0.065	
156-59-2	cis-1,2-Dichloroethene	0.90	0.19	0.13	0.23	0.049	0.033	
67-66-3	Chloroform	24	0.19	0.12	5.0	0.039	0.025	
107-06-2	1,2-Dichloroethane	ND	0.19	0.10	ND	0.048	0.026	
71-55-6	1,1,1-Trichloroethane	59	0.19	0.12	11	0.035	0.021	
71-43-2	Benzene	0.29	0.19	0.13	0.092	0.060	0.042	
56-23-5	Carbon Tetrachloride	0.65	0.19	0.13	0.10	0.031	0.021	
110-82-7	Cyclohexane	0.56	1.8	0.26	0.16	0.53	0.076	J
78-87-5	1,2-Dichloropropane	ND	0.19	0.12	ND	0.042	0.025	
75-27-4	Bromodichloromethane	1.7	0.19	0.13	0.25	0.029	0.020	
79-01-6	Trichloroethene	190	1.9	1.3	36	0.36	0.23	D

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG10

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02288

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -4.07 Final Pressure (psig): 3.86

Container Dilution Factor: 1.75

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.95	0.15	ND	0.21	0.032	
108-10-1	4-Methyl-2-pentanone	1.2	1.9	0.13	0.30	0.47	0.031	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.89	0.19	ND	0.20	0.042	
79-00-5	1,1,2-Trichloroethane	ND	0.19	0.095	ND	0.035	0.017	
108-88-3	Toluene	4.0	0.93	0.11	1.1	0.25	0.030	
591-78-6	2-Hexanone	0.60	1.9	0.12	0.15	0.47	0.028	J
124-48-1	Dibromochloromethane	ND	0.19	0.12	ND	0.023	0.014	
106-93-4	1,2-Dibromoethane	ND	0.19	0.11	ND	0.025	0.014	
127-18-4	Tetrachloroethene	46	0.19	0.12	6.8	0.028	0.018	
108-90-7	Chlorobenzene	ND	0.93	0.12	ND	0.20	0.027	
100-41-4	Ethylbenzene	0.98	0.93	0.13	0.23	0.21	0.030	
179601-23-1	m,p-Xylenes	3.5	1.9	0.25	0.80	0.44	0.056	
75-25-2	Bromoform	ND	0.95	0.19	ND	0.091	0.019	
100-42-5	Styrene	0.43	0.93	0.15	0.10	0.22	0.035	J
95-47-6	o-Xylene	1.2	0.93	0.13	0.28	0.21	0.031	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.19	0.13	ND	0.028	0.019	
98-82-8	Cumene	0.13	0.95	0.13	0.027	0.19	0.027	J
541-73-1	1,3-Dichlorobenzene	ND	0.93	0.14	ND	0.15	0.023	
106-46-7	1,4-Dichlorobenzene	ND	0.93	0.14	ND	0.15	0.024	
95-50-1	1,2-Dichlorobenzene	ND	0.95	0.14	ND	0.16	0.023	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.9	0.18	ND	0.20	0.018	
120-82-1	1,2,4-Trichlorobenzene	ND	1.9	0.23	ND	0.26	0.031	
79-20-9	Methyl Acetate	ND	0.88	0.42	ND	0.29	0.14	X
108-87-2	Methylcyclohexane	1.2	0.88	0.46	0.29	0.22	0.11	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS13\DATA\2023_03\24\03242314.D
 Acq On : 24 Mar 2023 13:43
 Sample : P2301250-012 (1000mL)
 Misc : S35-01202301

Vial: 5
 Operator: TZ
 Inst : MS13

Tz 3/27/23

Quant Time: Mar 27 12:13:50 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.33	130	250353	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	9.38	114	1096020	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	213841	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	424465	12.776	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.24%
57) Toluene-d8 (SS2)	12.48	98	1245882	11.329	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	90.64%
73) Bromofluorobenzene (SS3)	16.85	174	480958	11.941	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	95.52%

Target Compounds

						Qvalue
2) Propene	3.39	42	23731	0.948	ng	# 53
3) Dichlorodifluoromethan...	3.46	85	63639	1.388	ng	99
4) Chloromethane	3.55	50	1307	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	3.70	135	1421	0.061	ng	100
6) Vinyl Chloride	3.79	62	1741	0.057	ng	74
7) 1,3-Butadiene	0.00	54	0	N.D.	d	
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	4.27	64	150	N.D.		
10) Ethanol	4.42	45	868643	48.854	ng	100
11) Acetonitrile	0.00	41	0	N.D.	d	
12) Acrolein	4.64	56	2158	0.147	ng	80
13) Acetone	4.73	58	712207	46.933	ng	100
14) Trichlorofluoromethane	4.86	101	25743	0.624	ng	100
15) 2-Propanol (Isopropanol)	4.97	45	326618	5.332	ng	99
16) Acrylonitrile	5.14	53	846	N.D.		
17) 1,1-Dichloroethene	5.36	96	358	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.45	84	29947	1.346	ng	88
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	5.67	151	6691	0.308	ng	94
22) Carbon Disulfide	5.70	76	15134	0.172	ng	100
23) trans-1,2-Dichloroethene	6.23	61	2170	0.067	ng	82
24) 1,1-Dichloroethane	6.41	63	56376	1.424	ng	98
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.	d	
26) Vinyl Acetate	6.54	86	1567	0.382	ng	# 59
27) 2-Butanone (MEK)	6.77	72	25985	1.929	ng	95
28) cis-1,2-Dichloroethene	7.17	61	16523	0.517	ng	96
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	7.38	61	79319	8.954	ng	93
31) n-Hexane	7.38	57	7207	0.211	ng	98
32) Chloroform	7.45	83	562433	13.944	ng	100
34) Tetrahydrofuran (THF)	7.86	72	2957	0.214	ng	91
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.20	62	224	N.D.		
38) 1,1,1-Trichloroethane	8.48	97	1213744	33.457	ng	99
39) Isopropyl Acetate	9.38	61	29949	No Calib		
40) 1-Butanol	8.87	56	49691	No Calib	#	
41) Benzene	8.98	78	14197	0.167	ng	95
42) Carbon Tetrachloride	9.14	117	11819	0.369	ng	82
43) Cyclohexane	9.28	84	10064	0.322	ng	87
44) tert-Amyl Methyl Ether	9.67	73	730	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	10.15	83	30408	0.964	ng	97
47) Trichloroethene	10.22	130	2697094	107.975	ng	100
48) 1,4-Dioxane	0.00	88	0	N.D.	d	
49) 2,2,4-Trimethylpentane...	10.30	57	3352	N.D.		
50) Methyl Methacrylate	10.41	100	423	N.D.		

Data File : I:\MS13\DATA\2023_03\24\03242314.D
 Acq On : 24 Mar 2023 13:43
 Sample : P2301250-012 (1000mL)
 Misc : S35-01202301

Vial: 5
 Operator: TZ
 Inst : MS13

Quant Time: Mar 27 12:13:50 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

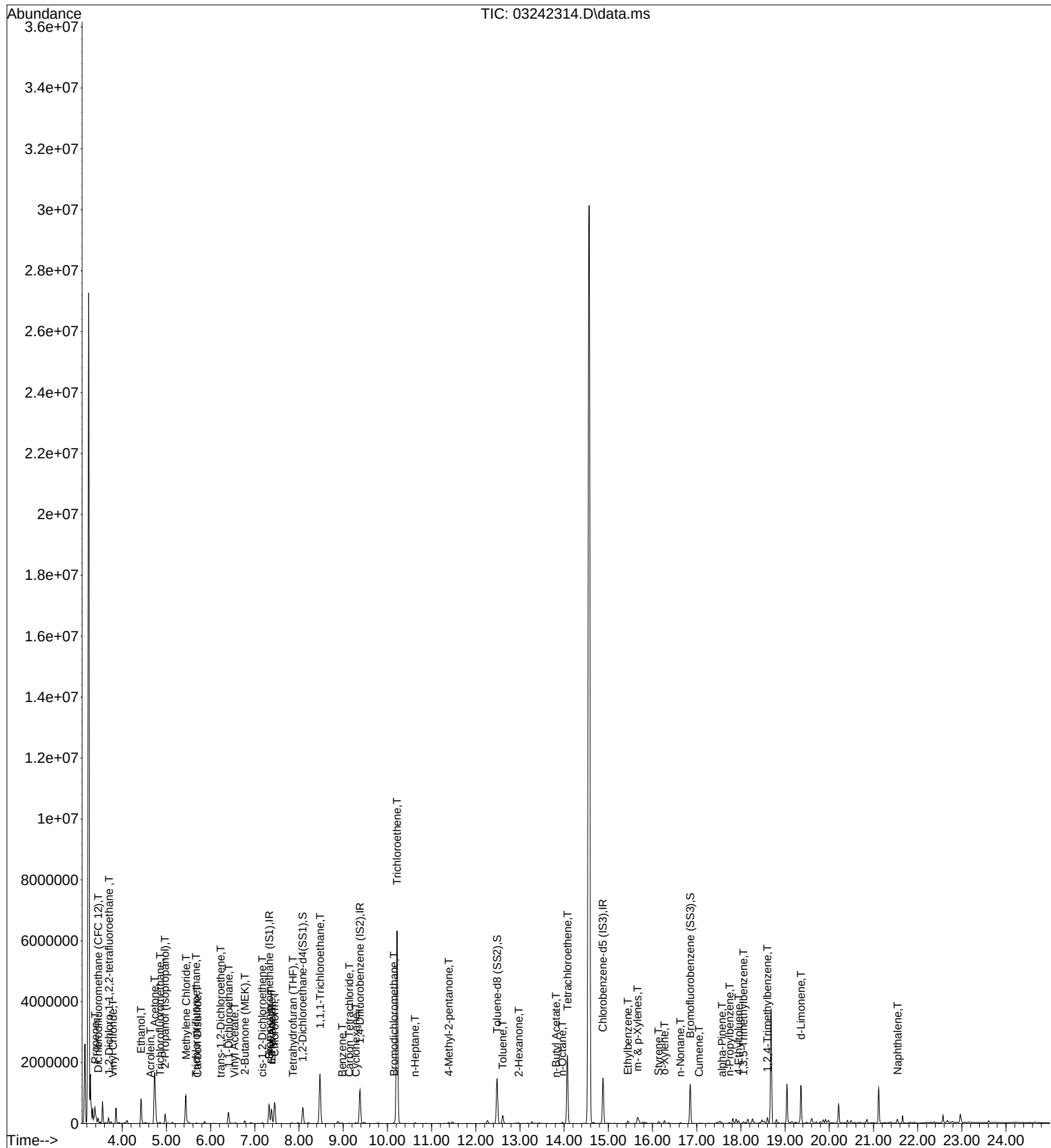
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.63	71	6797	0.329	ng	98
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.39	58	12735	0.693	ng	98
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.61	91	236700	2.261	ng	99
59) 2-Hexanone	12.97	43	17285	0.340	ng	86
60) Dibromochloromethane	13.13	129	540	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.81	43	9846	0.170	ng	97
63) n-Octane	13.96	57	9039	0.439	ng	91
64) Tetrachloroethene	14.08	166	839291	26.352	ng	100
65) Chlorobenzene	14.94	112	1481	N.D.		
66) Ethylbenzene	15.44	91	70089	0.561	ng	100
67) m- & p-Xylenes	15.66	91	198626	1.976	ng	99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.14	104	16766	0.243	ng	99
70) o-Xylene	16.27	91	66173	0.688	ng	99
71) n-Nonane	16.63	43	14267	0.307	ng	95
72) 1,1,2,2-Tetrachloroethane	16.14	83	118	N.D.		
74) Cumene	17.05	105	9045	0.077	ng	97
75) alpha-Pinene	17.58	93	9259	0.172	ng	90
76) n-Propylbenzene	17.74	91	33464	0.239	ng	99
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	53150	0.474	ng	99
79) 1,3,5-Trimethylbenzene	18.06	105	30524	0.308	ng	98
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.60	105	105124	1.075	ng	91
83) n-Decane	17.10	58	338	No Calib	#	
84) Benzyl Chloride	18.75	91	529	N.D.		
85) 1,3-Dichlorobenzene	18.77	146	1721	N.D.		
86) 1,4-Dichlorobenzene	18.86	146	1648	N.D.		
87) sec-Butylbenzene	18.96	105	2683	N.D.		
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.	d	
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.30	146	1564	N.D.		
91) d-Limonene	19.36	68	291116	8.804	ng	99
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.26	58	3469	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	862	N.D.		
95) Naphthalene	21.55	128	19517	0.184	ng	98
96) n-Dodecane	19.15	58	1234	No Calib	#	
97) Hexachlorobutadiene	21.99	225	212	N.D.		
98) Cyclohexanone	15.72	55	1002	No Calib	#	
99) tert-Butylbenzene	0.00	119	0	N.D.	d	
100) n-Butylbenzene	0.00	91	0	N.D.	d	
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242314.D
Acq On : 24 Mar 2023 13:43
Sample : P2301250-012 (1000mL)
Misc : S35-01202301

Vial: 5
Operator: TZ
Inst : MS13

Quant Time: Mar 27 12:13:50 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242314.D

Vial: 5

Acq On : 24 Mar 2023 13:43

Operator: TZ

Sample : P2301250-012 (1000mL)

Inst : MS13

Misc : S35-01202301

Quant Time: Mar 27 12:13:50 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.33	130	250353	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	9.38	114	1096020	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	213841	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	424465	12.776	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.24%
57) Toluene-d8 (SS2)	12.48	98	1245882	11.329	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	90.64%
73) Bromofluorobenzene (SS3)	16.85	174	480958	11.941	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	95.52%

Target Compounds

						Qvalue
2) Propene	3.39	42	23731	0.948	ng	# 53
3) Dichlorodifluoromethan...	3.46	85	63639	1.388	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	3.70	135	1421	0.061	ng	100
6) Vinyl Chloride	3.79	62	1741	0.057	ng	74
10) Ethanol	4.42	45	868643	48.854	ng	100
12) Acrolein	4.64	56	2158	0.147	ng	80
13) Acetone	4.73	58	712207	46.933	ng	100
14) Trichlorofluoromethane	4.86	101	25743	0.624	ng	100
15) 2-Propanol (Isopropanol)	4.97	45	326618	5.332	ng	99
19) Methylene Chloride	5.45	84	29947	1.346	ng	88
21) Trichlorotrifluoroethane	5.67	151	6691	0.308	ng	94
22) Carbon Disulfide	5.70	76	15134	0.172	ng	100
23) trans-1,2-Dichloroethene	6.23	61	2170	0.067	ng	82
24) 1,1-Dichloroethane	6.41	63	56376	1.424	ng	98
26) Vinyl Acetate	6.54	86	1567	0.382	ng	# 59
27) 2-Butanone (MEK)	6.77	72	25985	1.929	ng	95
28) cis-1,2-Dichloroethene	7.17	61	16523	0.517	ng	96
30) Ethyl Acetate	7.38	61	79319	8.954	ng	93
31) n-Hexane	7.38	57	7207	0.211	ng	98
32) Chloroform	7.45	83	562433	13.944	ng	100
34) Tetrahydrofuran (THF)	7.86	72	2957	0.214	ng	91
38) 1,1,1-Trichloroethane	8.48	97	1213744	33.457	ng	99
41) Benzene	8.98	78	14197	0.167	ng	95
42) Carbon Tetrachloride	9.14	117	11819	0.369	ng	82
43) Cyclohexane	9.28	84	10064	0.322	ng	87
46) Bromodichloromethane	10.15	83	30408	0.964	ng	97
47) Trichloroethene	10.22	130	2697094	107.975	ng	100
51) n-Heptane	10.63	71	6797	0.329	ng	98
53) 4-Methyl-2-pentanone	11.39	58	12735	0.693	ng	98
58) Toluene	12.61	91	236700	2.261	ng	99
59) 2-Hexanone	12.97	43	17285	0.340	ng	86
62) n-Butyl Acetate	13.81	43	9846	0.170	ng	97
63) n-Octane	13.96	57	9039	0.439	ng	91
64) Tetrachloroethene	14.08	166	839291	26.352	ng	100
66) Ethylbenzene	15.44	91	70089	0.561	ng	100
67) m- & p-Xylenes	15.66	91	198626	1.976	ng	99
69) Styrene	16.14	104	16766	0.243	ng	99
70) o-Xylene	16.27	91	66173	0.688	ng	99
71) n-Nonane	16.63	43	14267	0.307	ng	95
74) Cumene	17.05	105	9045	0.077	ng	97
75) alpha-Pinene	17.58	93	9259	0.172	ng	90
76) n-Propylbenzene	17.74	91	33464	0.239	ng	99
78) 4-Ethyltoluene	17.95	105	53150	0.474	ng	99
79) 1,3,5-Trimethylbenzene	18.06	105	30524	0.308	ng	98
82) 1,2,4-Trimethylbenzene	18.60	105	105124	1.075	ng	91
91) d-Limonene	19.36	68	291116	8.804	ng	99
95) Naphthalene	21.55	128	19517	0.184	ng	98

Data File : I:\MS13\DATA\2023_03\24\03242314.D Vial: 5
Acq On : 24 Mar 2023 13:43 Operator: TZ
Sample : P2301250-012 (1000mL) Inst : MS13
Misc : S35-01202301

Quant Time: Mar 27 12:13:50 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M

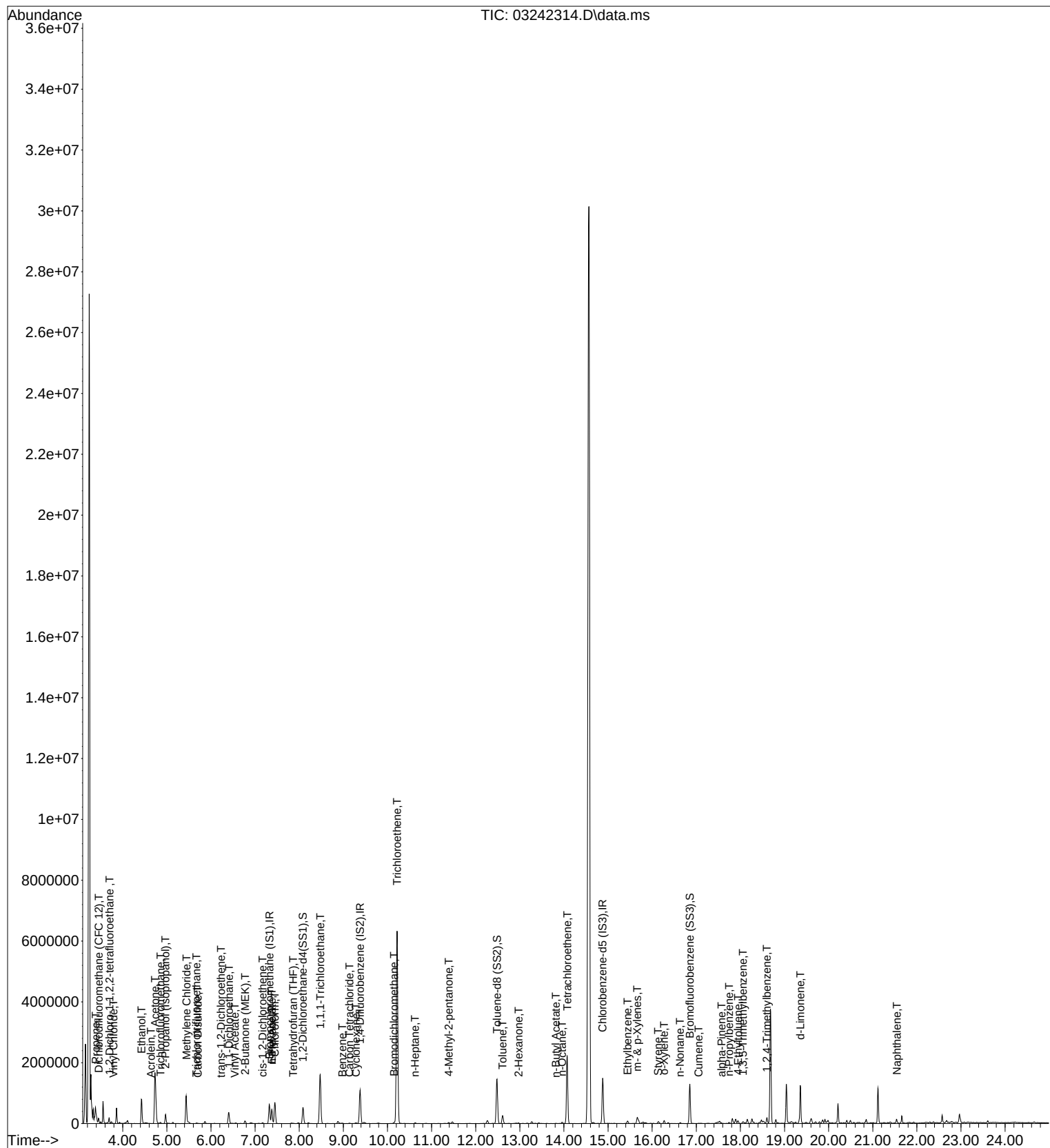
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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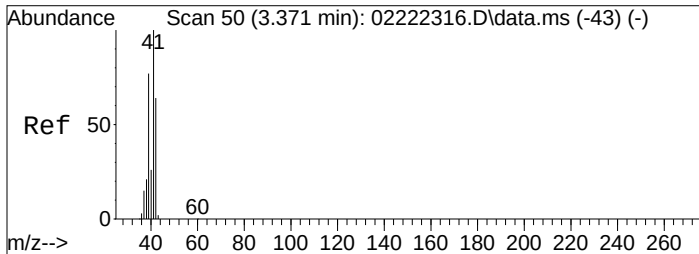
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS13\DATA\2023_03\24\03242314.D
Acq On : 24 Mar 2023 13:43
Sample : P2301250-012 (1000mL)
Misc : S35-01202301

Vial: 5
Operator: TZ
Inst : MS13

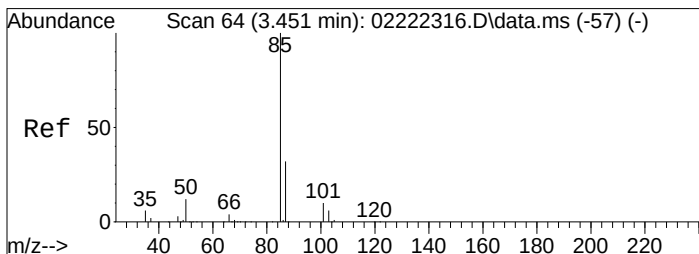
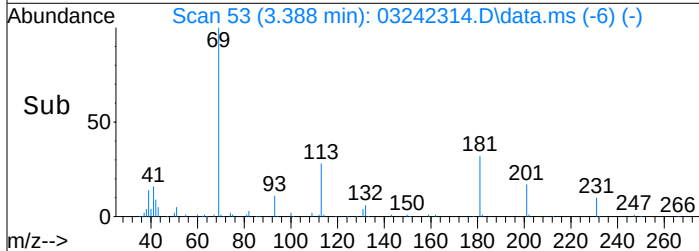
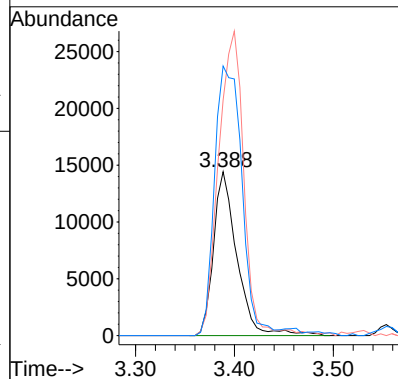
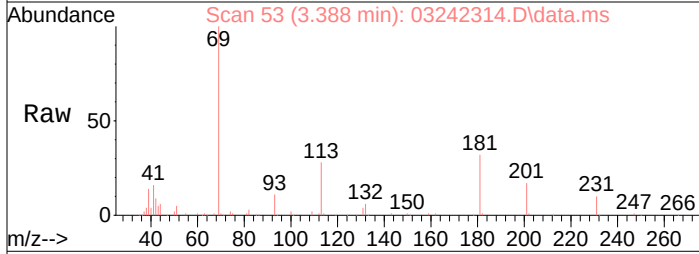
Quant Time: Mar 27 12:13:50 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M





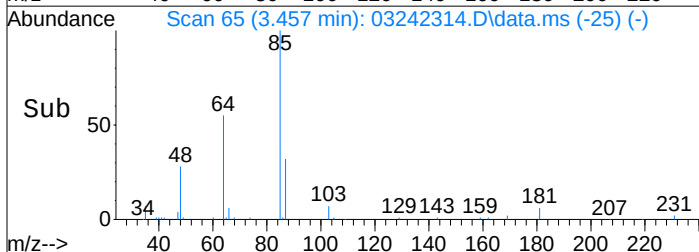
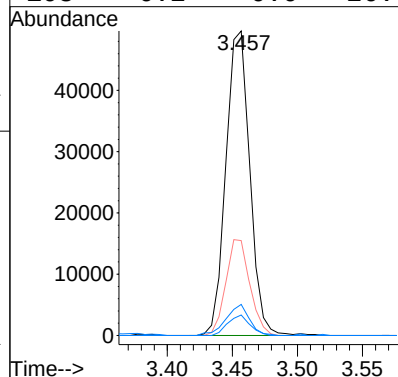
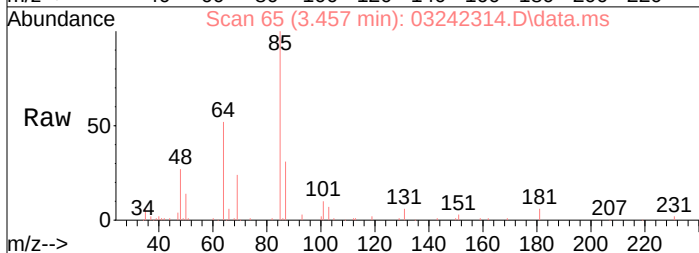
#2
 Propene
 Concen: 0.95 ng
 RT: 3.39 min Scan# 53
 Delta R.T. 0.017 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:43

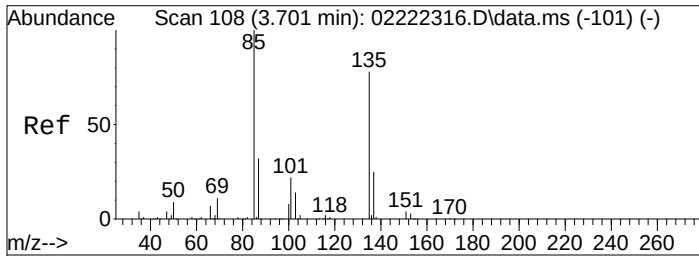
Tgt Ion: 42 Resp: 23731
 Ion Ratio Lower Upper
 42 100
 39 200.5 100.7 140.7#
 41 190.5 134.4 174.4#



#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.39 ng
 RT: 3.46 min Scan# 65
 Delta R.T. -0.021 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:43

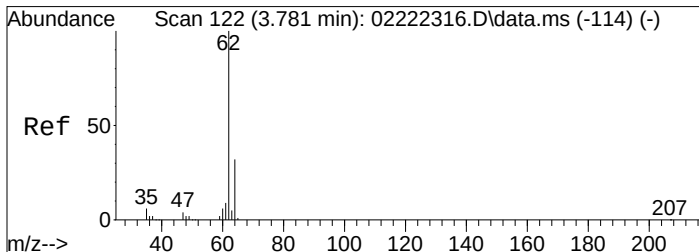
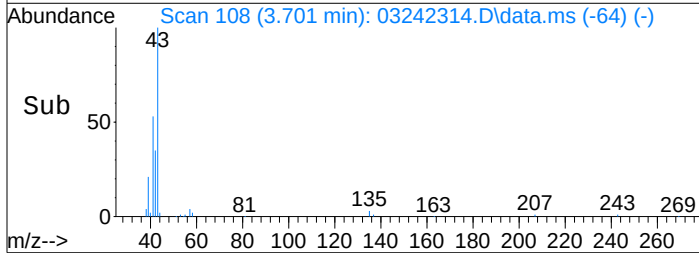
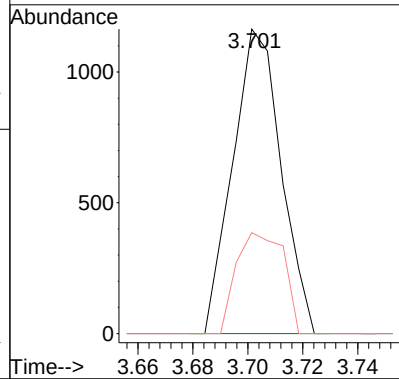
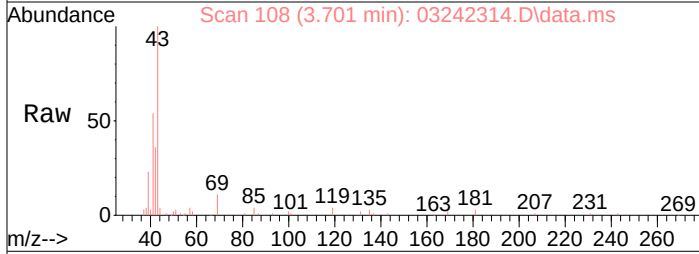
Tgt Ion: 85 Resp: 63639
 Ion Ratio Lower Upper
 85 100
 87 31.5 12.4 52.4
 101 10.0 0.0 29.4
 103 6.2 0.0 26.0





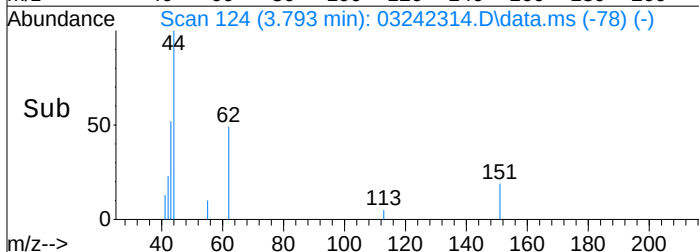
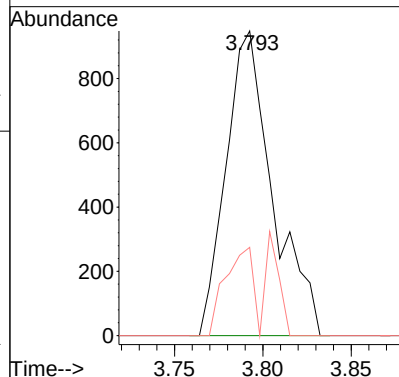
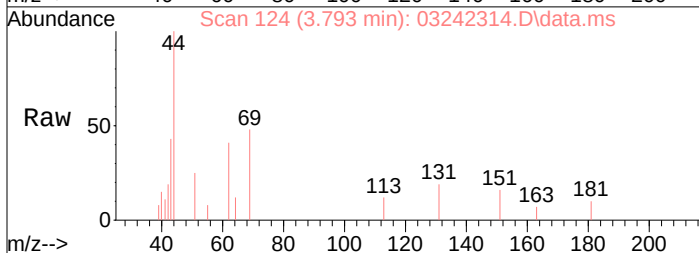
#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.06 ng
 RT: 3.70 min Scan# 108
 Delta R.T. 0.000 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:43

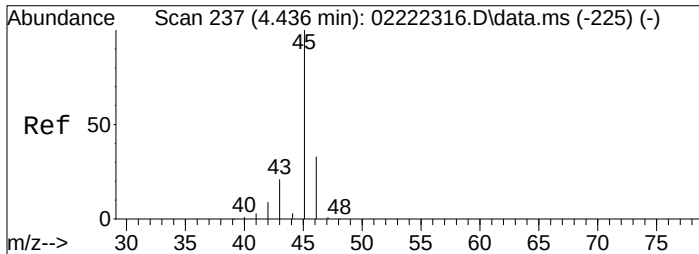
Tgt Ion: 135 Resp: 1421
 Ion Ratio Lower Upper
 135 100
 137 32.4 12.2 52.2



#6
 Vinyl Chloride
 Concen: 0.06 ng
 RT: 3.79 min Scan# 124
 Delta R.T. 0.011 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:43

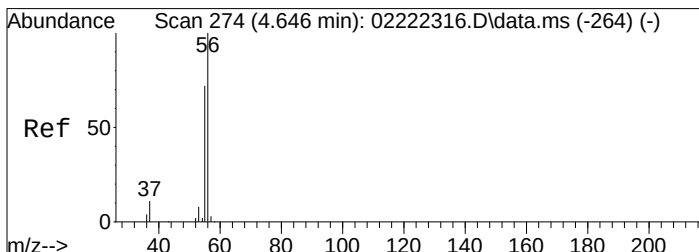
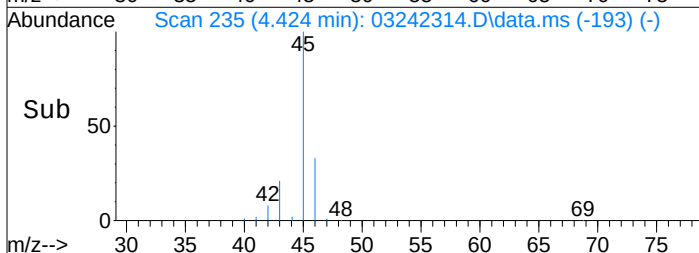
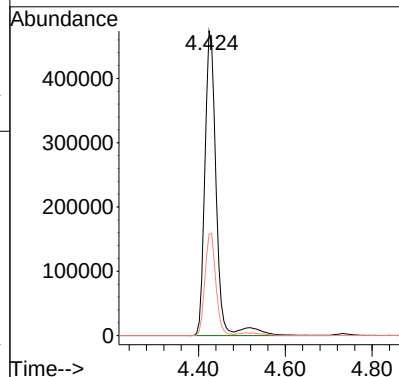
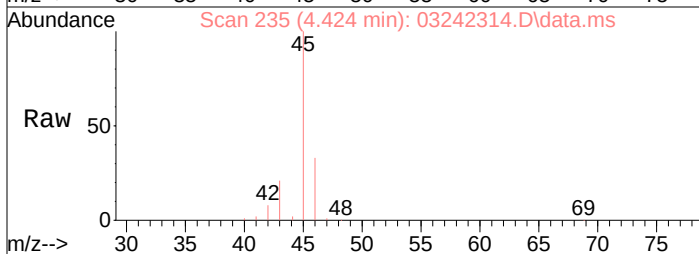
Tgt Ion: 62 Resp: 1741
 Ion Ratio Lower Upper
 62 100
 64 17.2 11.8 51.8





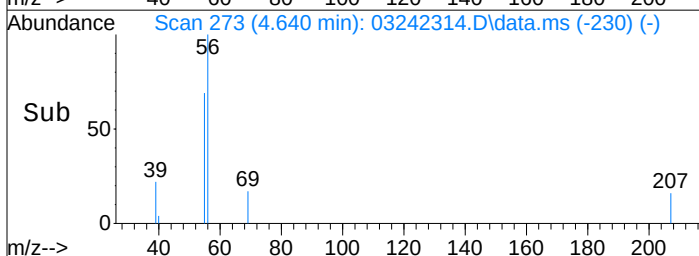
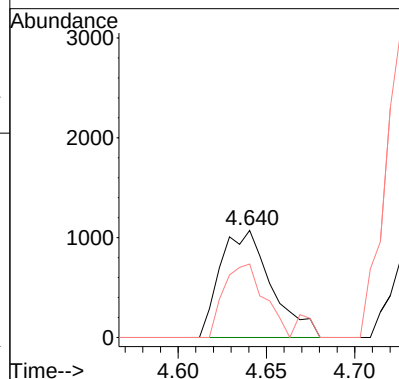
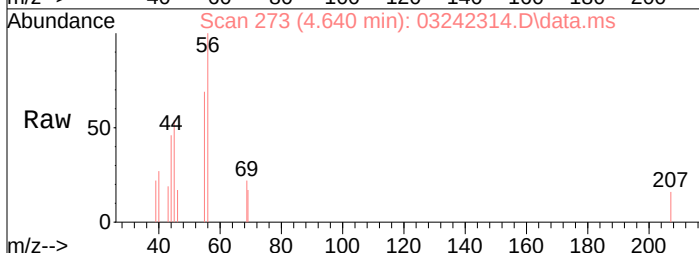
#10
Ethanol
Concen: 48.85 ng
RT: 4.42 min Scan# 235
Delta R.T. -0.011 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:43

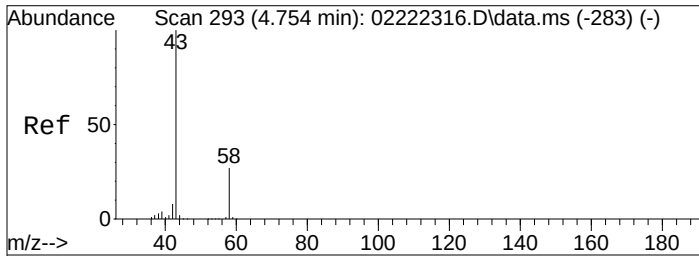
Tgt Ion: 45 Resp: 868643
Ion Ratio Lower Upper
45 100
46 33.9 13.8 53.8



#12
Acrolein
Concen: 0.15 ng
RT: 4.64 min Scan# 273
Delta R.T. -0.006 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:43

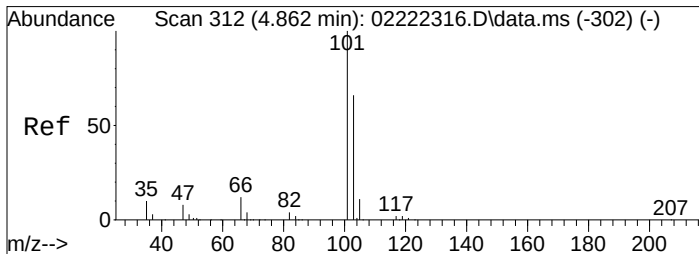
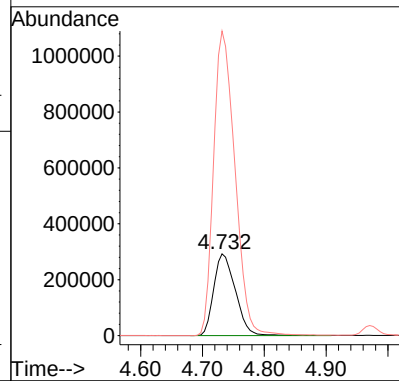
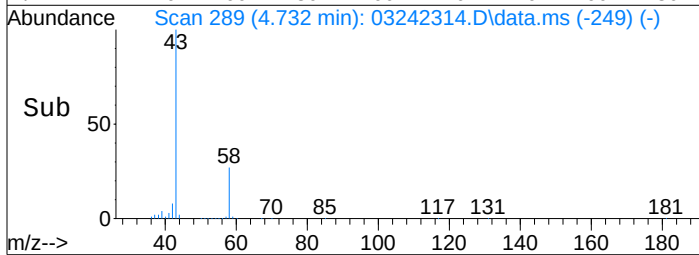
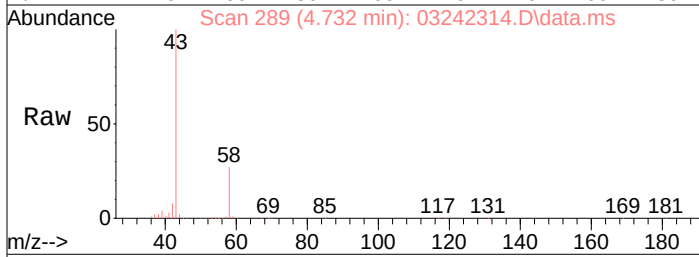
Tgt Ion: 56 Resp: 2158
Ion Ratio Lower Upper
56 100
55 54.3 50.9 90.9





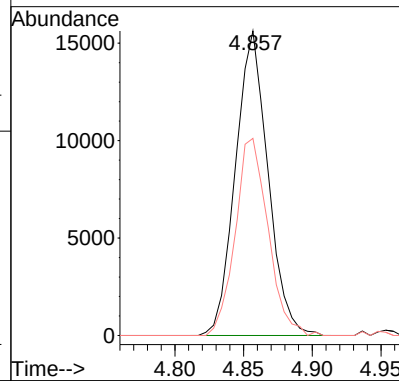
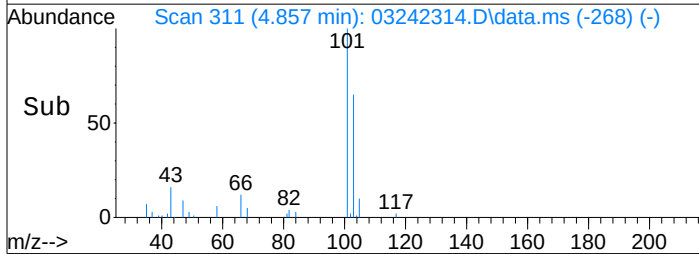
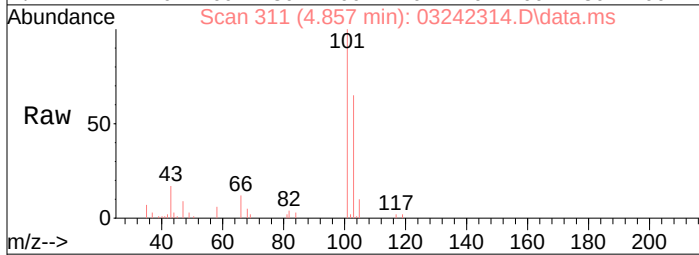
#13
Acetone
Concen: 46.93 ng
RT: 4.73 min Scan# 289
Delta R.T. -0.023 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:43

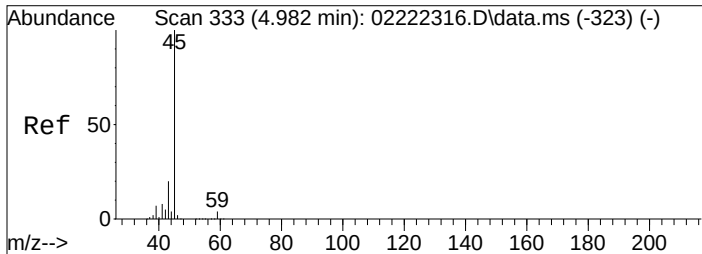
Tgt Ion: 58 Resp: 712207
Ion Ratio Lower Upper
58 100
43 368.5 337.8 397.8



#14
Trichlorofluoromethane
Concen: 0.62 ng
RT: 4.86 min Scan# 311
Delta R.T. -0.006 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:43

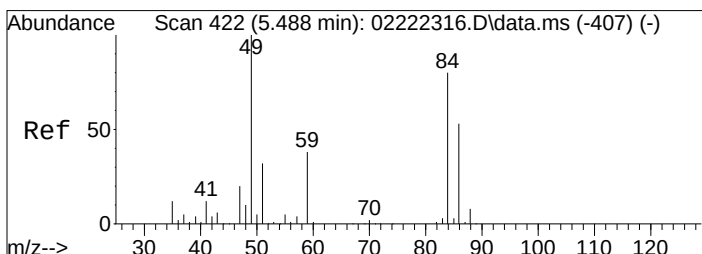
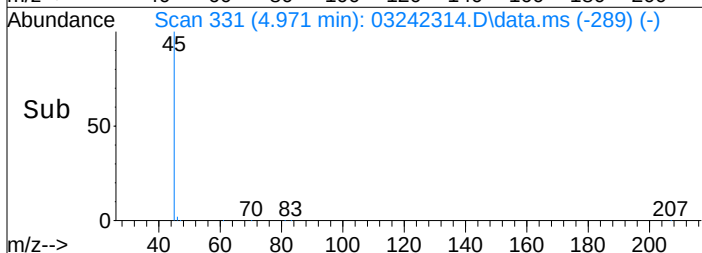
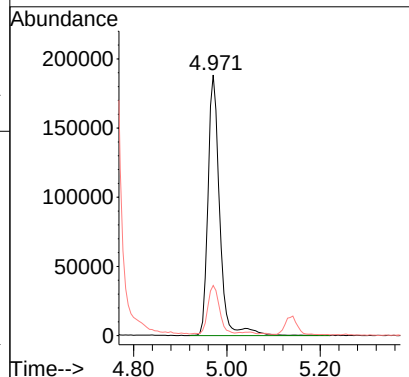
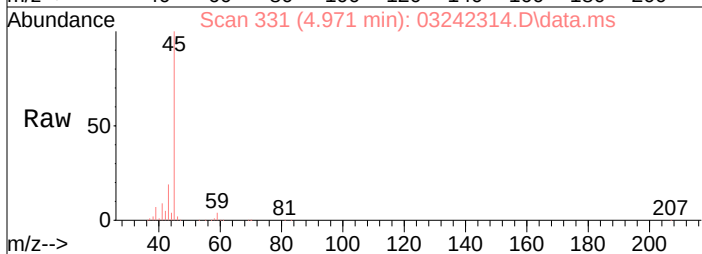
Tgt Ion: 101 Resp: 25743
Ion Ratio Lower Upper
101 100
103 65.3 45.2 85.2





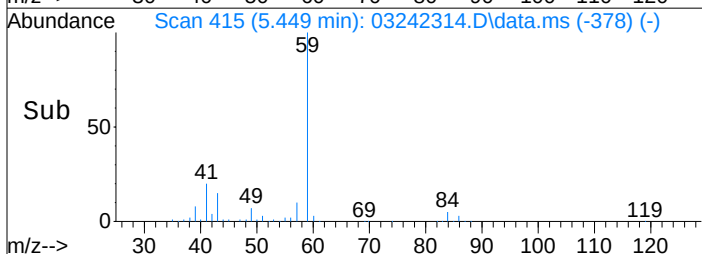
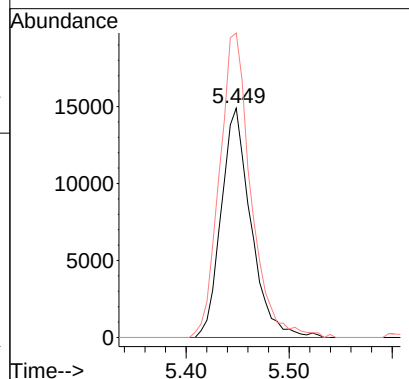
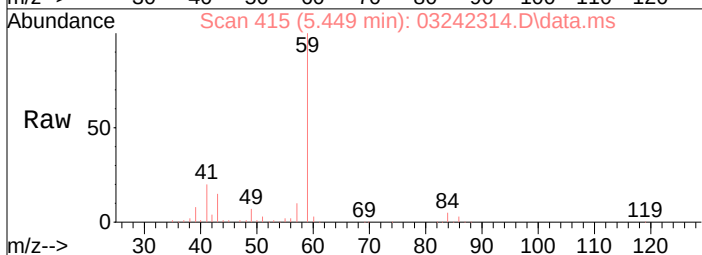
#15
2-Propanol (Isopropanol)
Concen: 5.33 ng
RT: 4.97 min Scan# 331
Delta R.T. -0.011 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:43

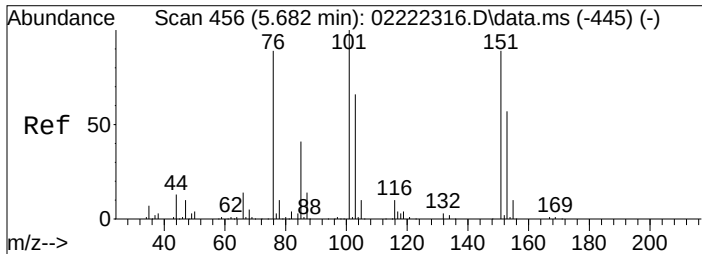
Tgt Ion: 45 Resp: 326618
Ion Ratio Lower Upper
45 100
43 20.3 0.0 39.7



#19
Methylene Chloride
Concen: 1.35 ng
RT: 5.45 min Scan# 415
Delta R.T. -0.040 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:43

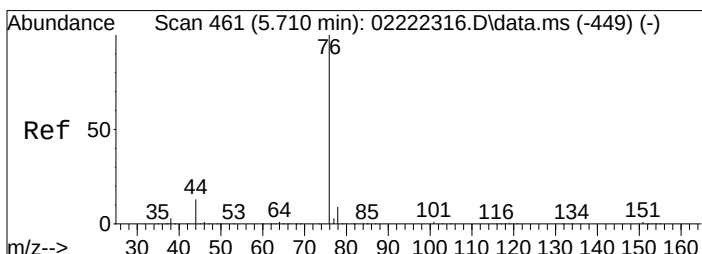
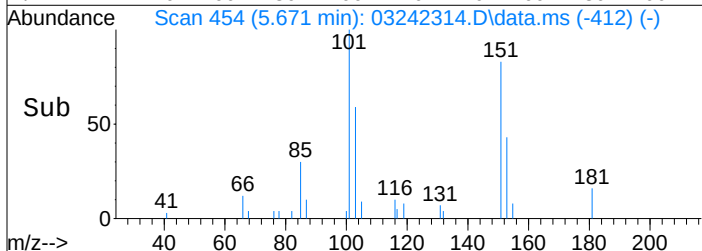
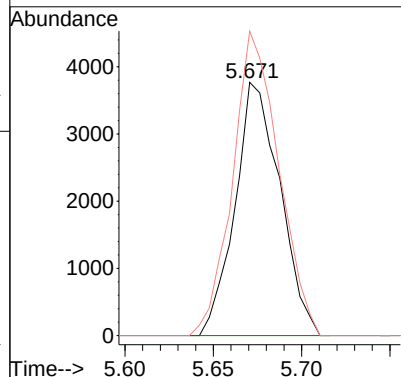
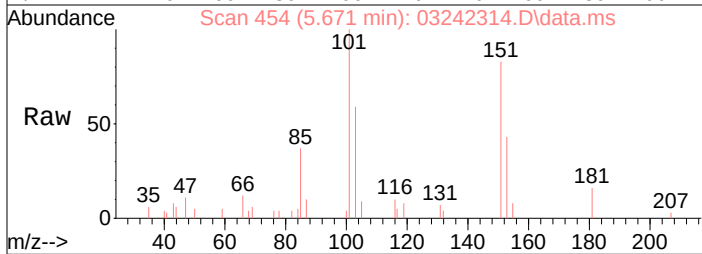
Tgt Ion: 84 Resp: 29947
Ion Ratio Lower Upper
84 100
49 140.2 101.3 151.3





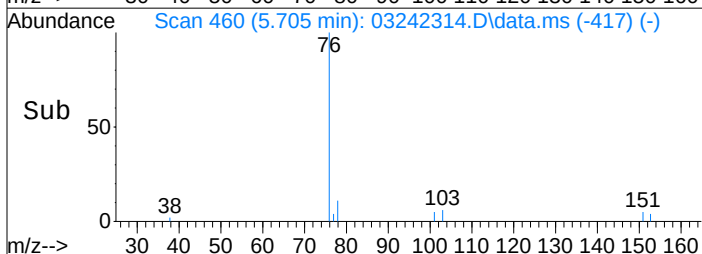
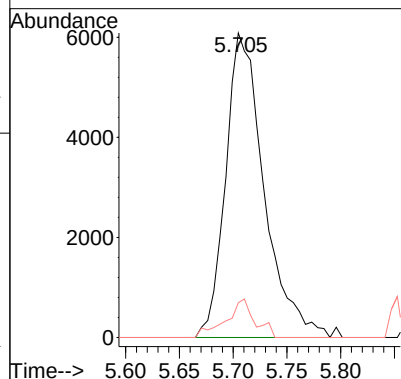
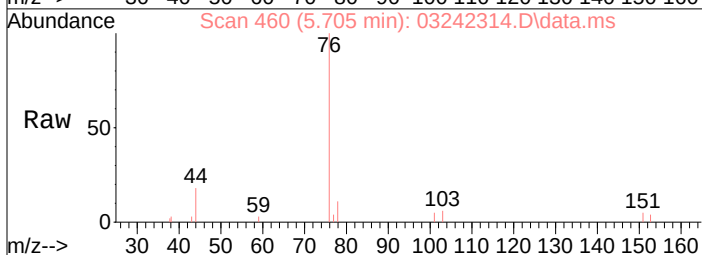
#21
 Trichlorotrifluoroethane
 Concen: 0.31 ng
 RT: 5.67 min Scan# 454
 Delta R.T. -0.011 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:43

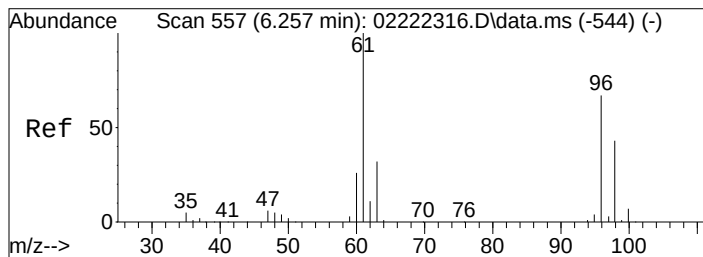
Tgt Ion: 151 Resp: 6691
 Ion Ratio Lower Upper
 151 100
 101 123.0 96.3 136.3



#22
 Carbon Disulfide
 Concen: 0.17 ng
 RT: 5.70 min Scan# 460
 Delta R.T. -0.006 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:43

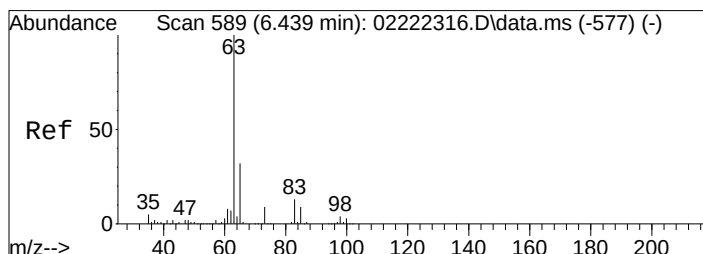
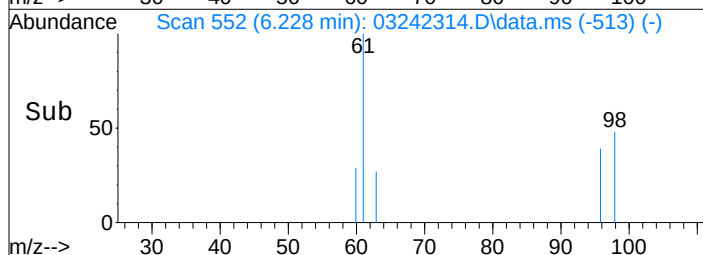
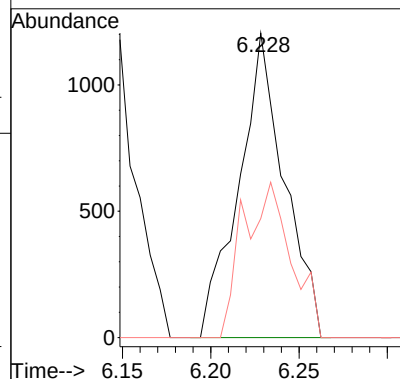
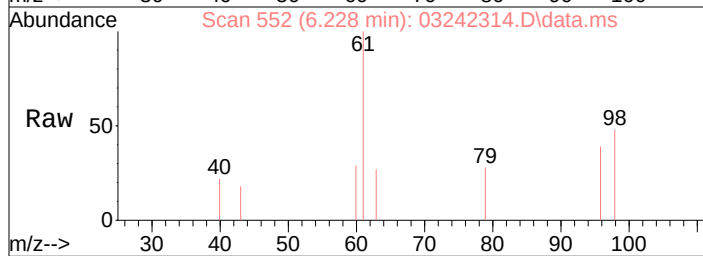
Tgt Ion: 76 Resp: 15134
 Ion Ratio Lower Upper
 76 100
 78 9.4 0.0 29.3





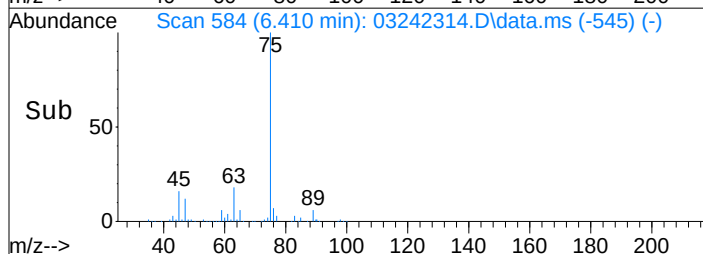
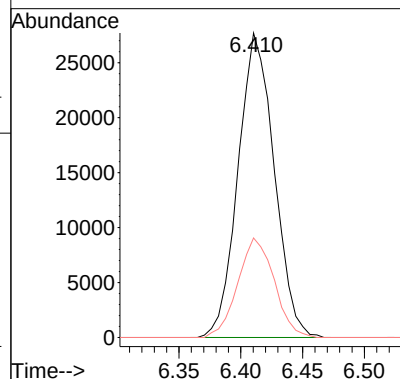
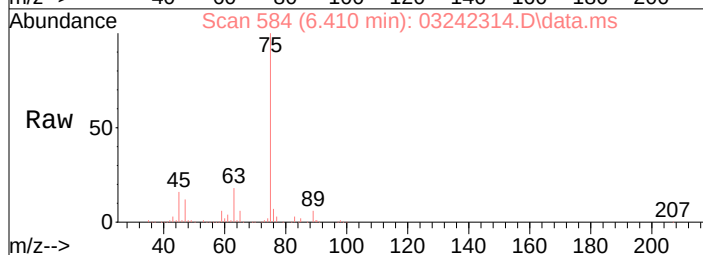
#23
trans-1,2-Dichloroethene
Concen: 0.07 ng
RT: 6.23 min Scan# 552
Delta R.T. -0.028 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:43

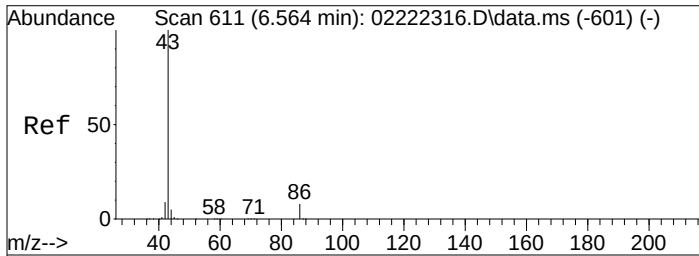
Tgt Ion: 61 Resp: 2170
Ion Ratio Lower Upper
61 100
96 53.5 47.7 87.7



#24
1,1-Dichloroethane
Concen: 1.42 ng
RT: 6.41 min Scan# 584
Delta R.T. -0.028 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:43

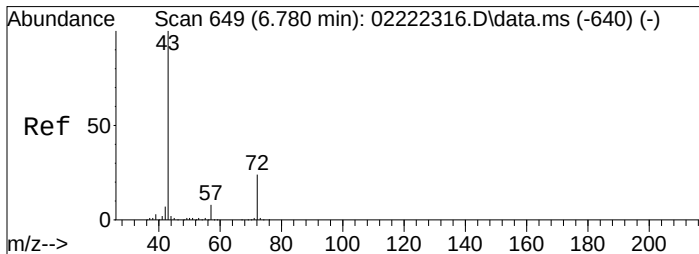
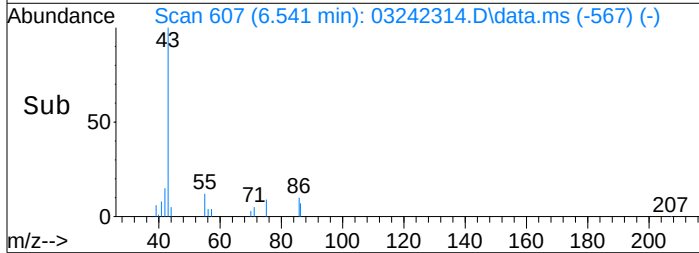
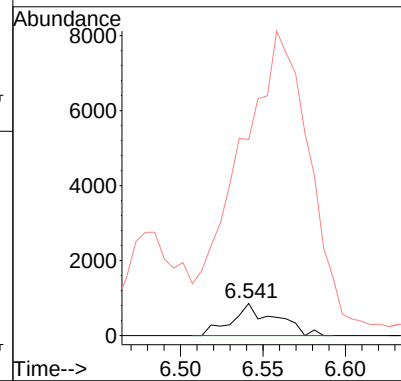
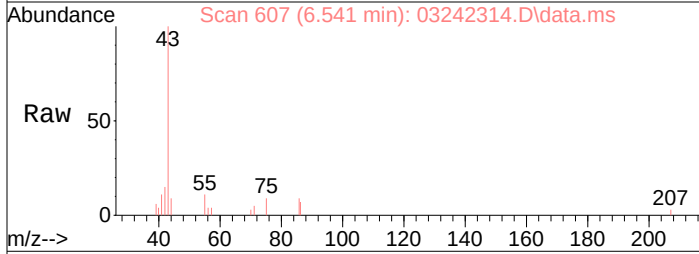
Tgt Ion: 63 Resp: 56376
Ion Ratio Lower Upper
63 100
65 32.9 12.0 52.0





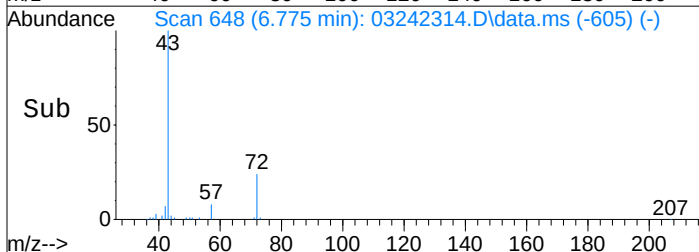
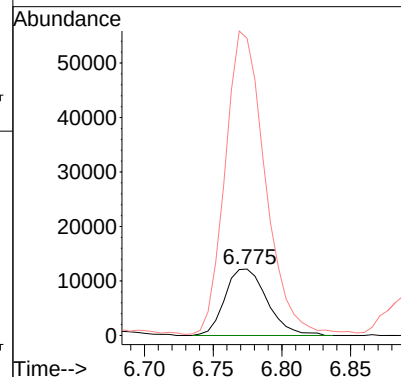
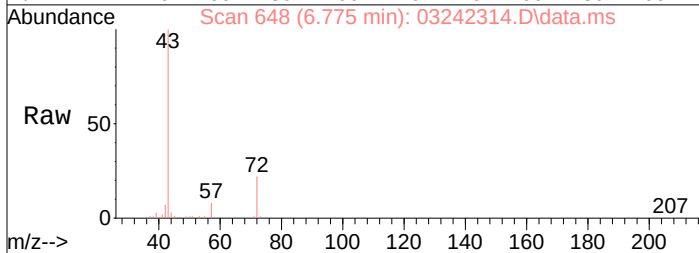
#26
 Vinyl Acetate
 Concen: 0.38 ng
 RT: 6.54 min Scan# 607
 Delta R.T. -0.023 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:43

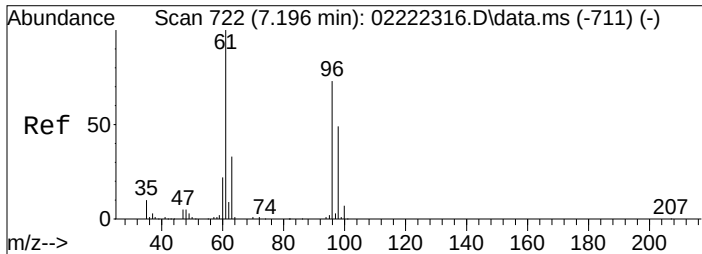
Tgt Ion: 86 Resp: 1567
 Ion Ratio Lower Upper
 86 100
 43 1534.7 1292.1 1332.1#



#27
 2-Butanone (MEK)
 Concen: 1.93 ng
 RT: 6.77 min Scan# 648
 Delta R.T. -0.006 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:43

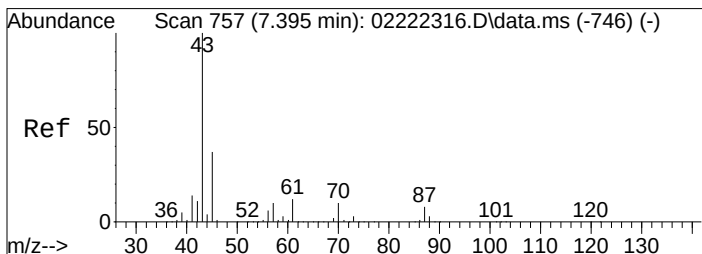
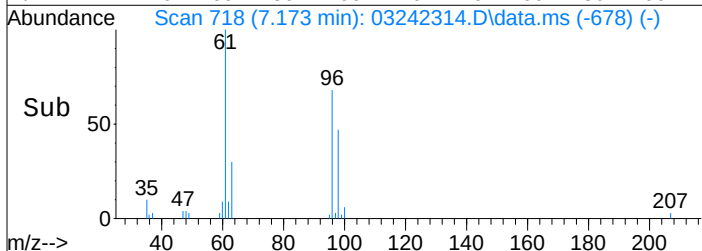
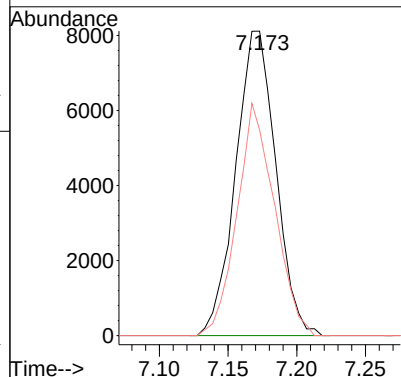
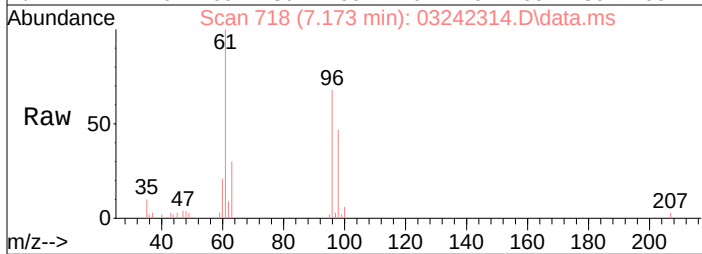
Tgt Ion: 72 Resp: 25985
 Ion Ratio Lower Upper
 72 100
 43 433.0 400.5 440.5





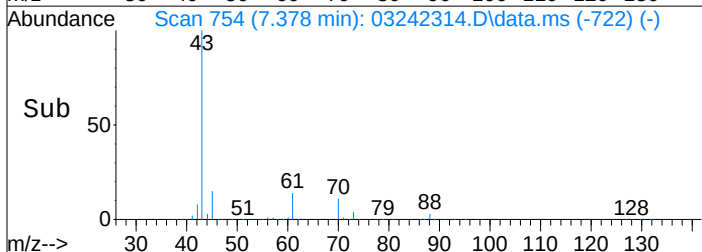
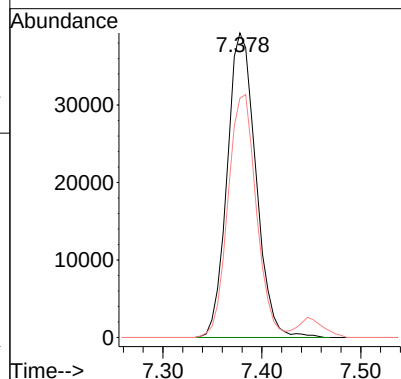
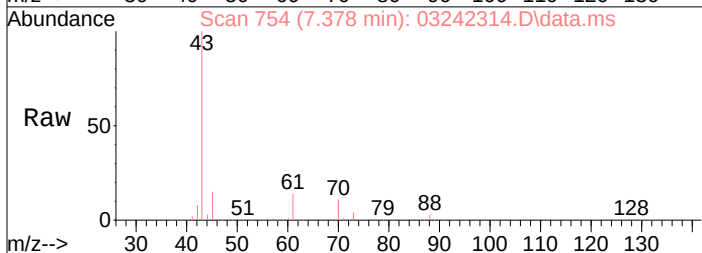
#28
 cis-1,2-Dichloroethene
 Concen: 0.52 ng
 RT: 7.17 min Scan# 718
 Delta R.T. -0.023 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:43

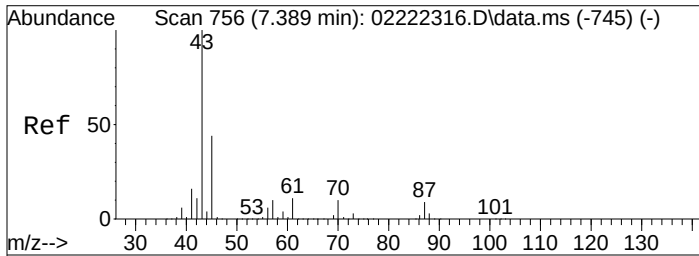
Tgt Ion: 61 Resp: 16523
 Ion Ratio Lower Upper
 61 100
 96 71.3 54.5 94.5



#30
 Ethyl Acetate
 Concen: 8.95 ng
 RT: 7.38 min Scan# 754
 Delta R.T. -0.017 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:43

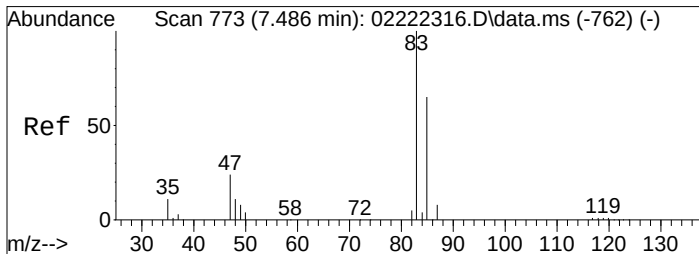
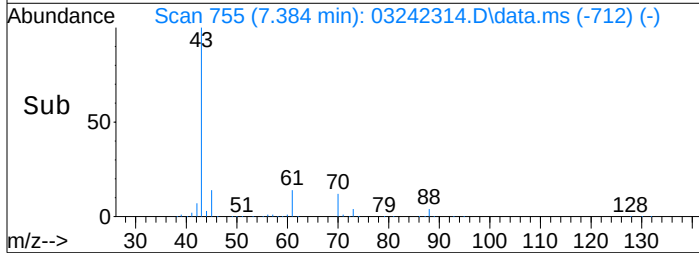
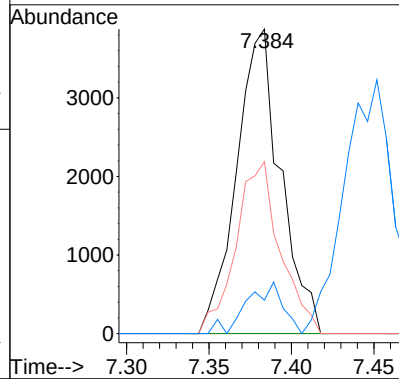
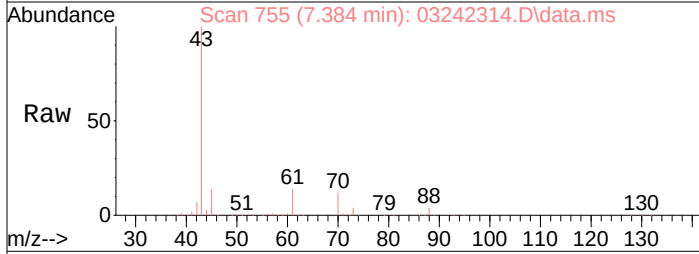
Tgt Ion: 61 Resp: 79319
 Ion Ratio Lower Upper
 61 100
 70 78.8 65.6 105.6





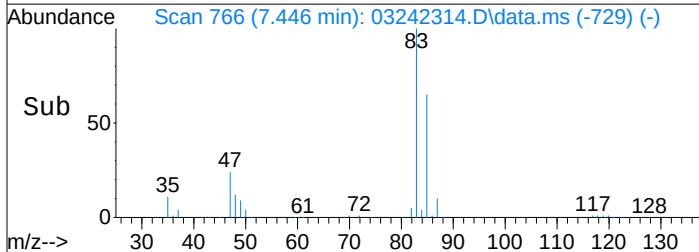
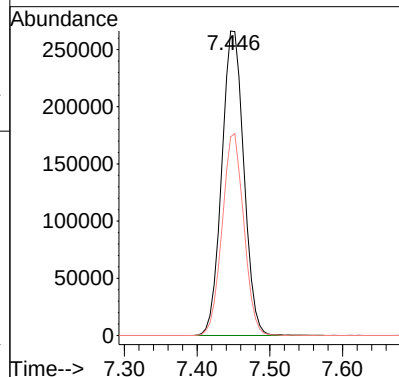
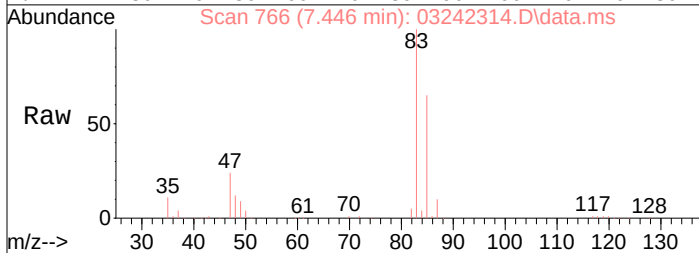
#31
n-Hexane
Concen: 0.21 ng
RT: 7.38 min Scan# 755
Delta R.T. -0.006 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:43

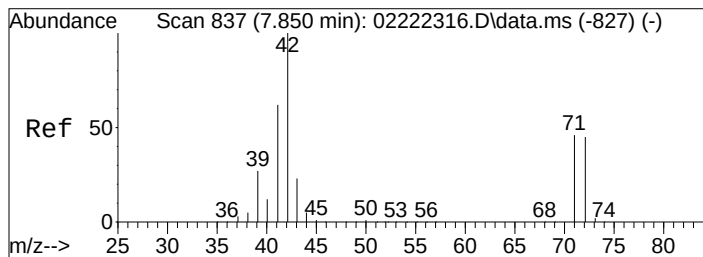
Tgt Ion: 57 Resp: 7207
Ion Ratio Lower Upper
57 100
56 56.5 44.0 66.0
86 13.8 11.5 17.3



#32
Chloroform
Concen: 13.94 ng
RT: 7.45 min Scan# 766
Delta R.T. -0.040 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:43

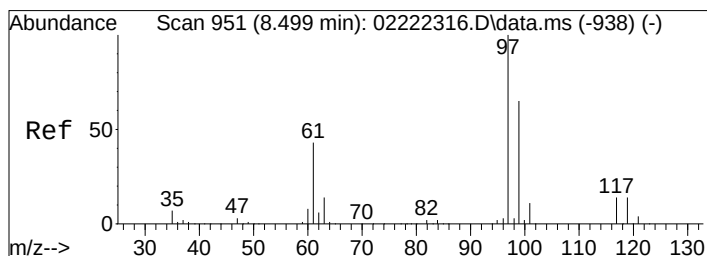
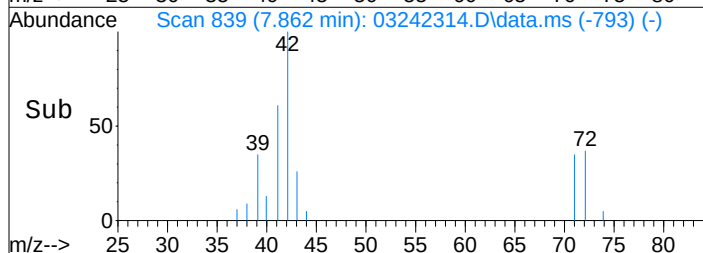
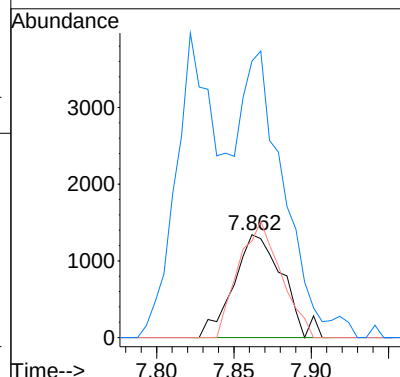
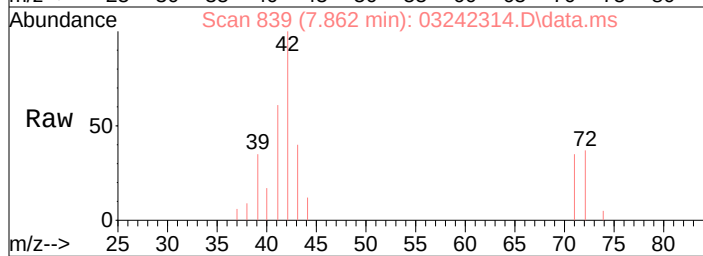
Tgt Ion: 83 Resp: 562433
Ion Ratio Lower Upper
83 100
85 64.9 45.0 85.0





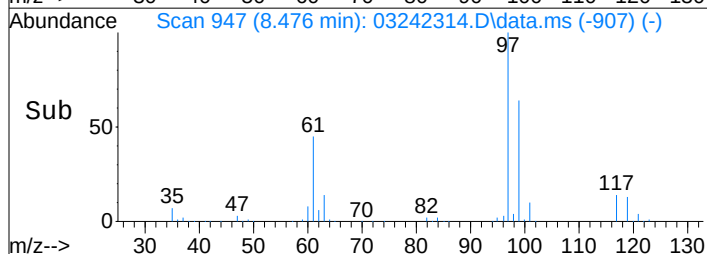
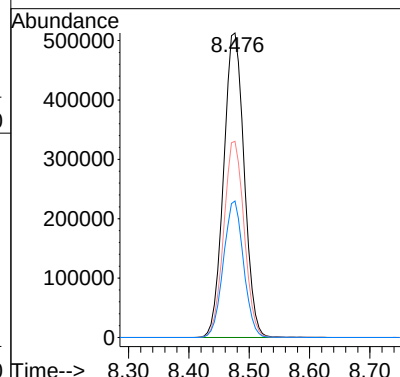
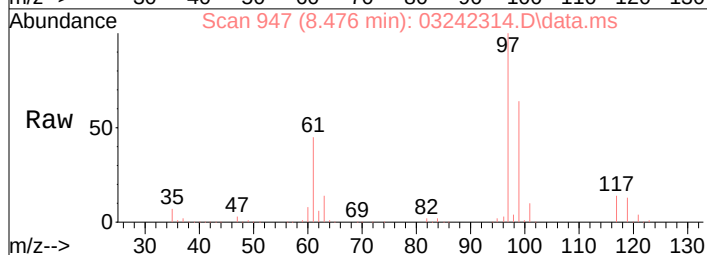
#34
Tetrahydrofuran (THF)
Concen: 0.21 ng
RT: 7.86 min Scan# 839
Delta R.T. 0.011 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:43

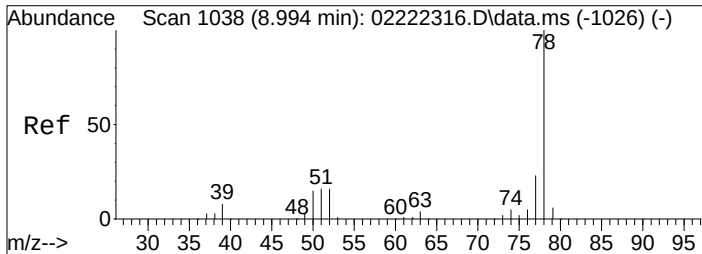
Tgt Ion:	72	Resp:	2957
Ion Ratio		Lower	Upper
72	100		
71	98.0	79.8	119.8
42	237.9	199.0	239.0



#38
1,1,1-Trichloroethane
Concen: 33.46 ng
RT: 8.48 min Scan# 947
Delta R.T. -0.023 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:43

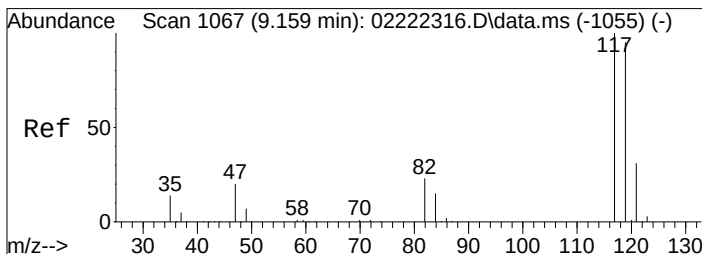
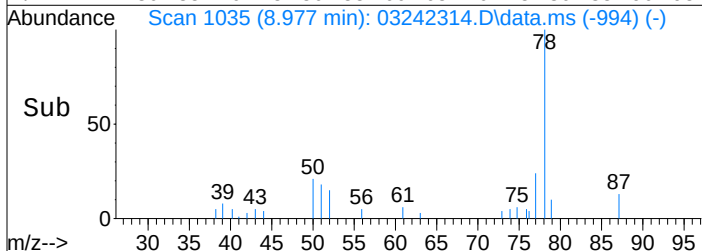
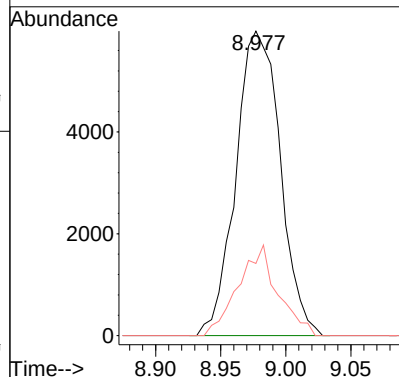
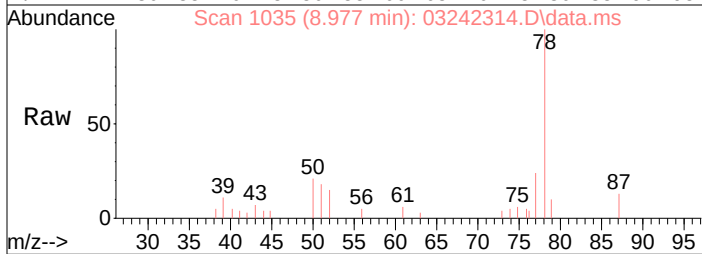
Tgt Ion:	97	Resp:	1213744
Ion Ratio		Lower	Upper
97	100		
99	64.1	44.9	84.9
61	44.0	23.5	63.5





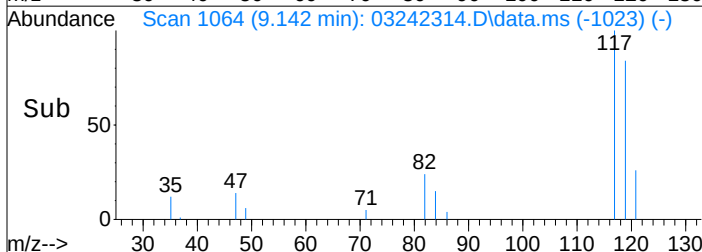
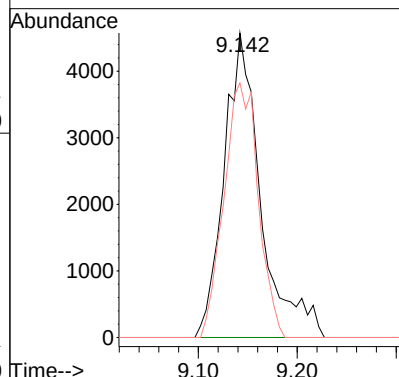
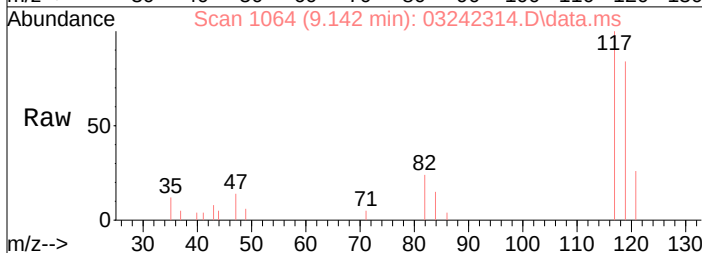
#41
Benzene
Concen: 0.17 ng
RT: 8.98 min Scan# 1035
Delta R.T. -0.017 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:43

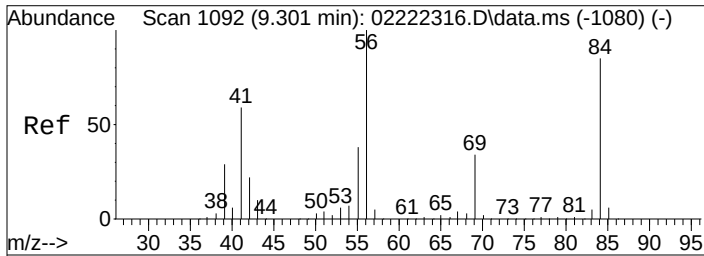
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	14197		
77	26.4	3.7	43.7	



#42
Carbon Tetrachloride
Concen: 0.37 ng
RT: 9.14 min Scan# 1064
Delta R.T. -0.017 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:43

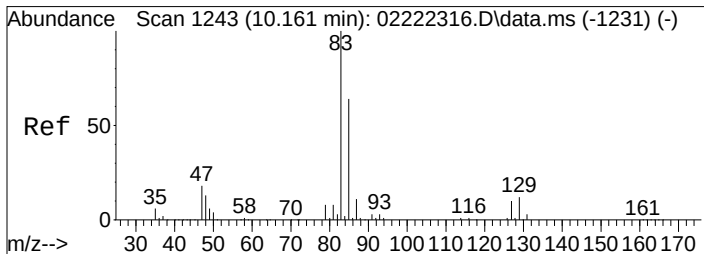
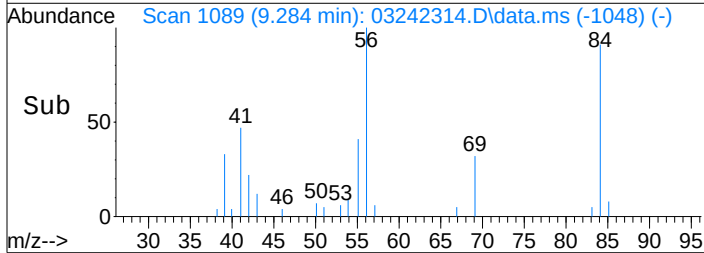
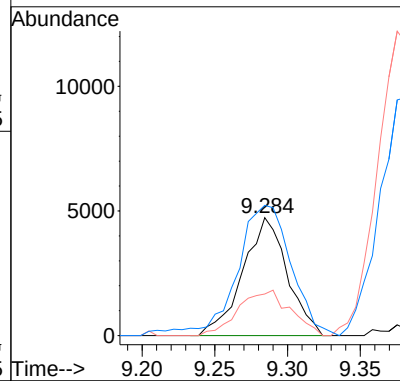
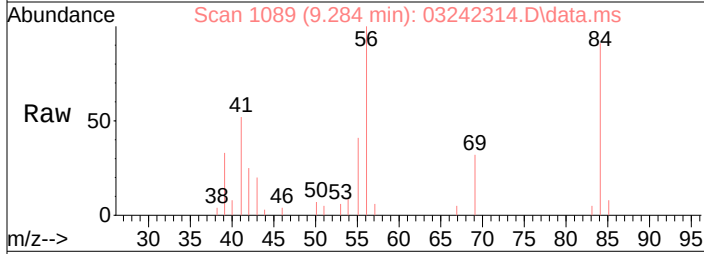
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	11819		
119	78.0	75.7	115.7	





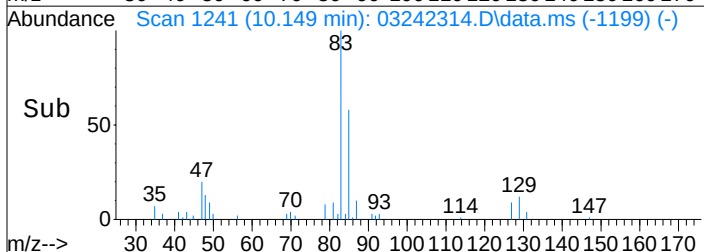
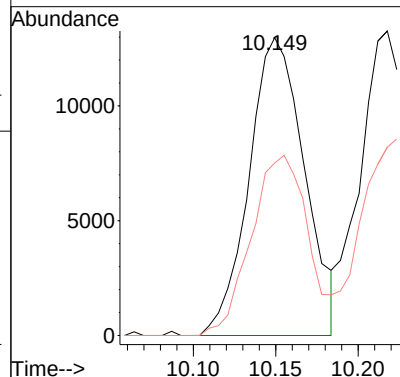
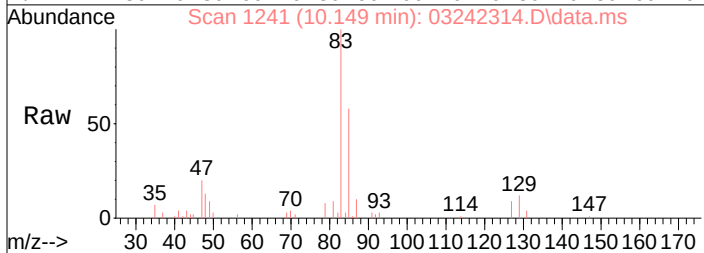
#43
Cyclohexane
Concen: 0.32 ng
RT: 9.28 min Scan# 1089
Delta R.T. -0.017 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:43

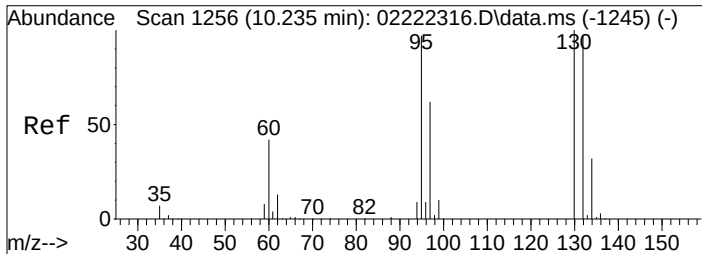
Tgt Ion: 84 Resp: 10064
Ion Ratio Lower Upper
84 100
69 44.6 20.0 60.0
56 135.5 98.5 138.5



#46
Bromodichloromethane
Concen: 0.96 ng
RT: 10.15 min Scan# 1241
Delta R.T. -0.011 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:43

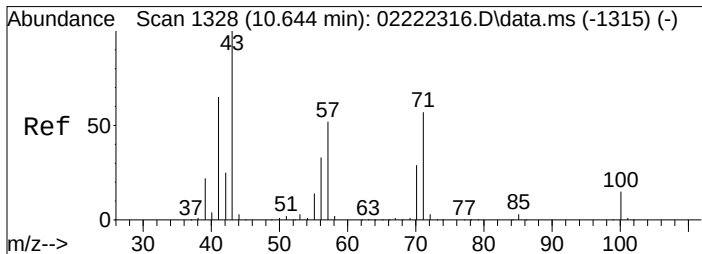
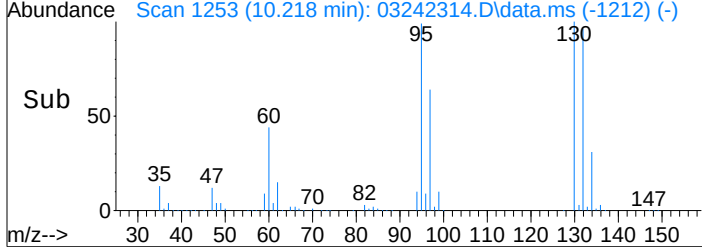
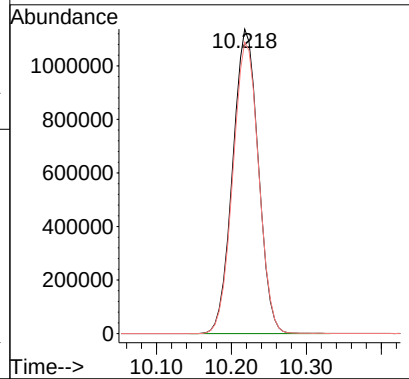
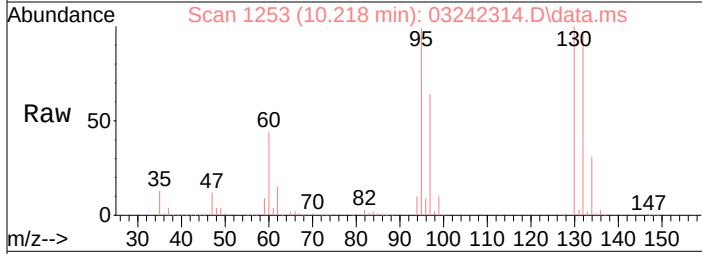
Tgt Ion: 83 Resp: 30408
Ion Ratio Lower Upper
83 100
85 61.8 44.0 84.0





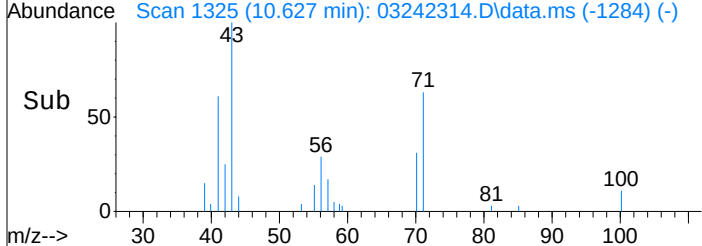
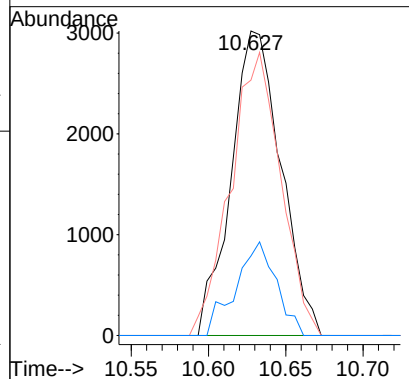
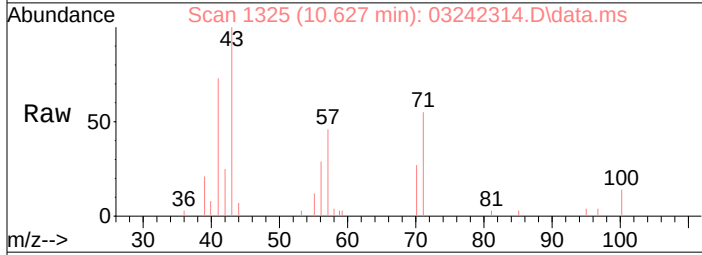
#47
 Trichloroethene
 Concen: 107.98 ng
 RT: 10.22 min Scan# 1253
 Delta R.T. -0.017 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:43

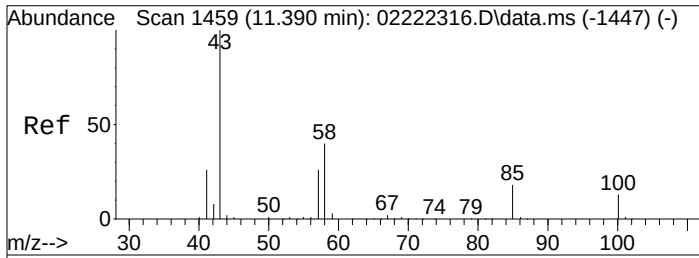
Tgt Ion: 130 Resp: 2697094
 Ion Ratio Lower Upper
 130 100
 132 96.6 76.3 116.3



#51
 n-Heptane
 Concen: 0.33 ng
 RT: 10.63 min Scan# 1325
 Delta R.T. -0.017 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:43

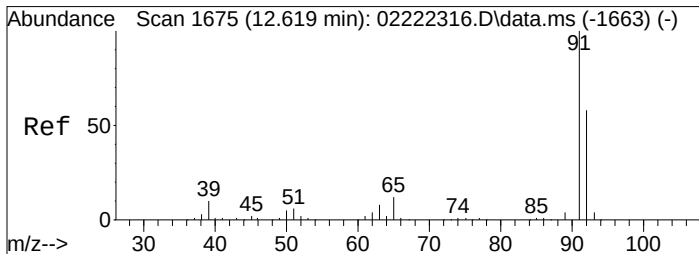
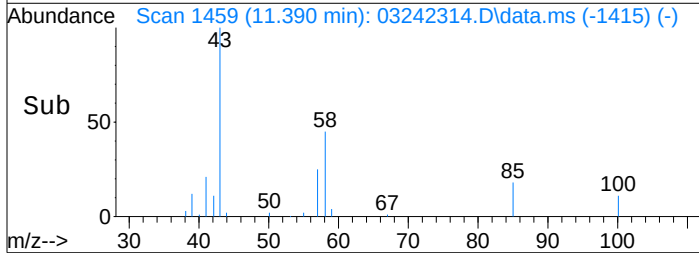
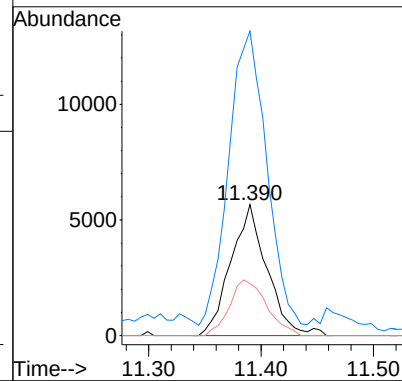
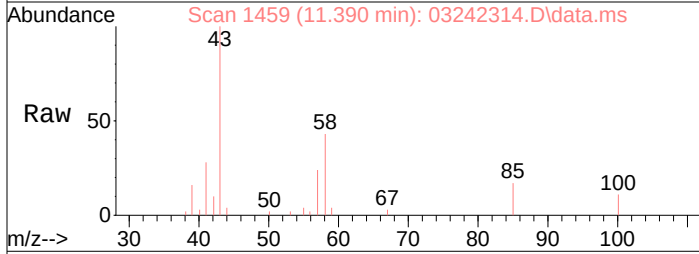
Tgt Ion: 71 Resp: 6797
 Ion Ratio Lower Upper
 71 100
 57 93.5 71.7 111.7
 100 25.1 5.8 45.8





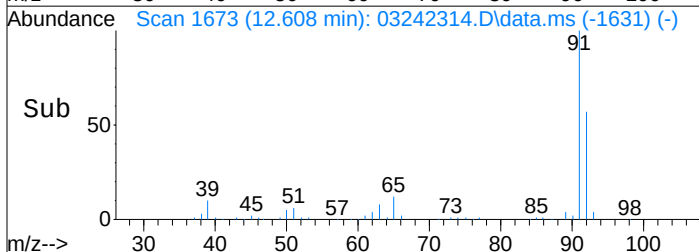
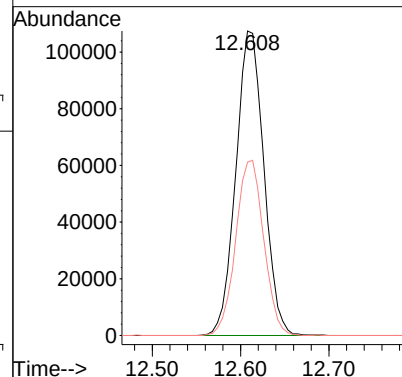
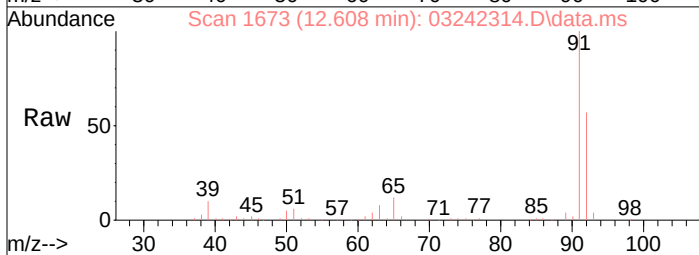
#53
4-Methyl-2-pentanone
Concen: 0.69 ng
RT: 11.39 min Scan# 1459
Delta R.T. 0.000 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:43

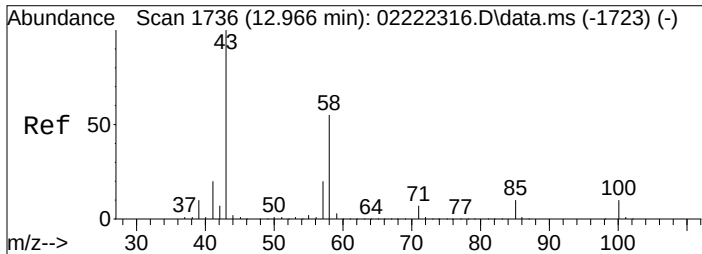
Tgt Ion: 58 Resp: 12735
Ion Ratio Lower Upper
58 100
85 43.5 38.6 58.0
43 254.2 202.2 303.2



#58
Toluene
Concen: 2.26 ng
RT: 12.61 min Scan# 1673
Delta R.T. -0.011 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:43

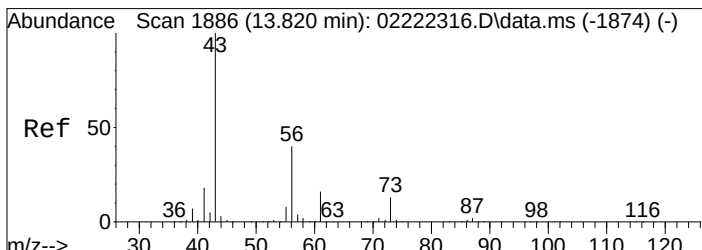
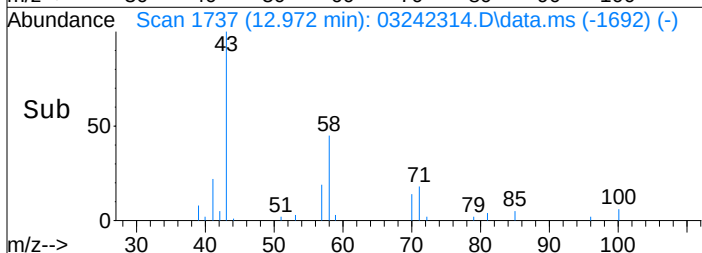
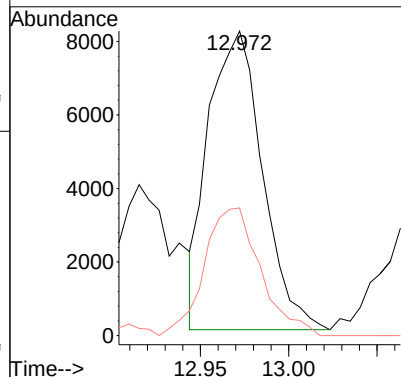
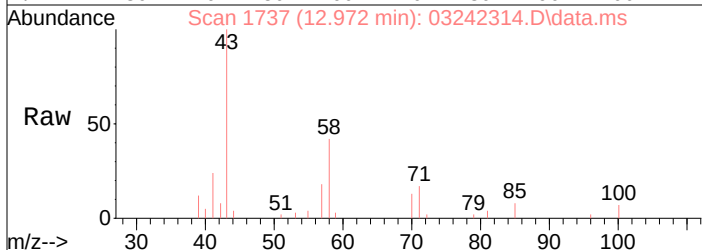
Tgt Ion: 91 Resp: 236700
Ion Ratio Lower Upper
91 100
92 57.6 38.0 78.0





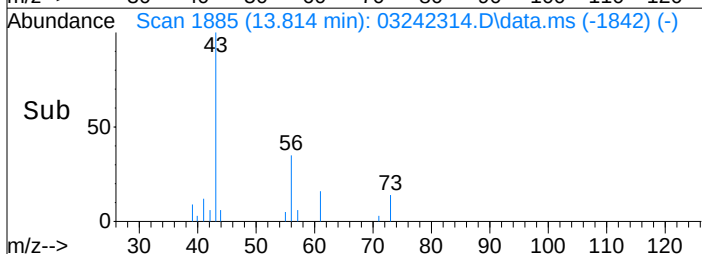
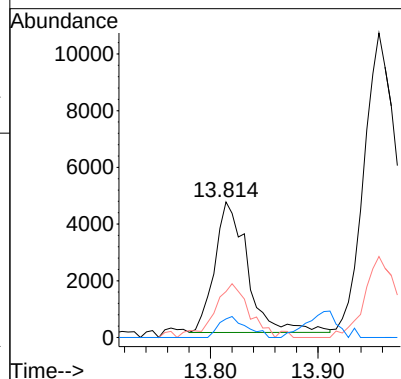
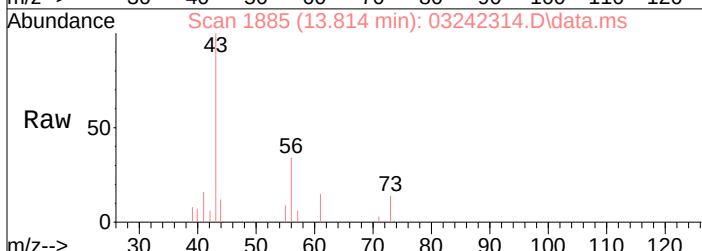
#59
2-Hexanone
Concen: 0.34 ng
RT: 12.97 min Scan# 1737
Delta R.T. 0.006 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:43

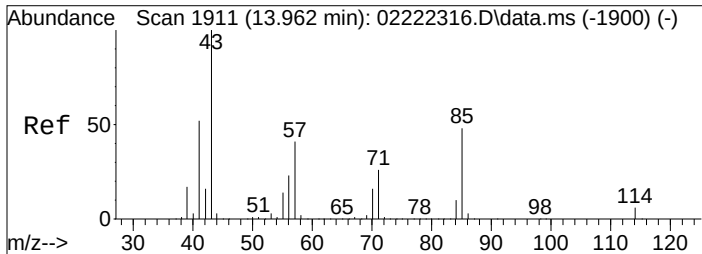
Tgt Ion: 43 Resp: 17285
Ion Ratio Lower Upper
43 100
58 44.5 34.5 74.5



#62
n-Butyl Acetate
Concen: 0.17 ng
RT: 13.81 min Scan# 1885
Delta R.T. -0.006 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:43

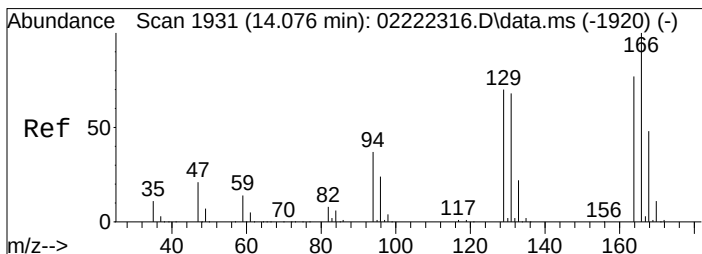
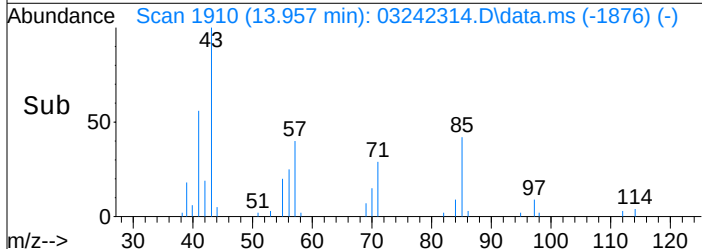
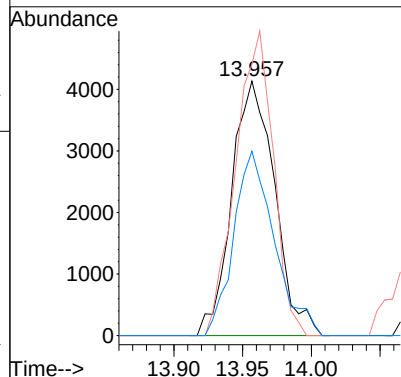
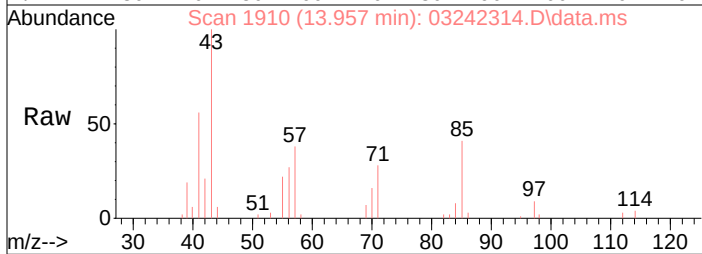
Tgt Ion: 43 Resp: 9846
Ion Ratio Lower Upper
43 100
56 42.4 20.0 60.0
73 13.2 0.0 33.2





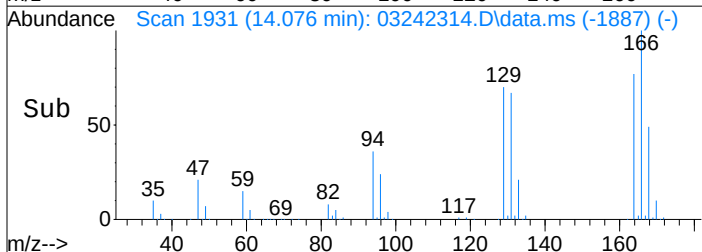
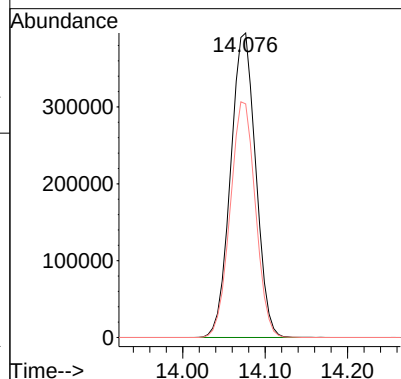
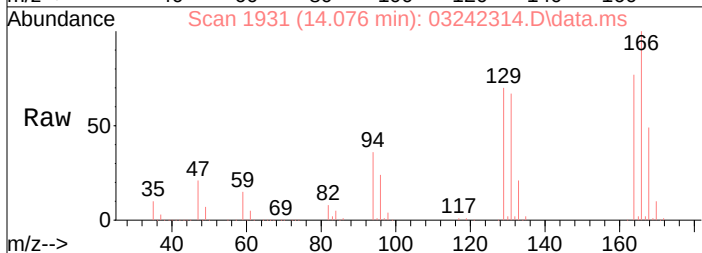
#63
n-Octane
Concen: 0.44 ng
RT: 13.96 min Scan# 1910
Delta R.T. -0.006 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:43

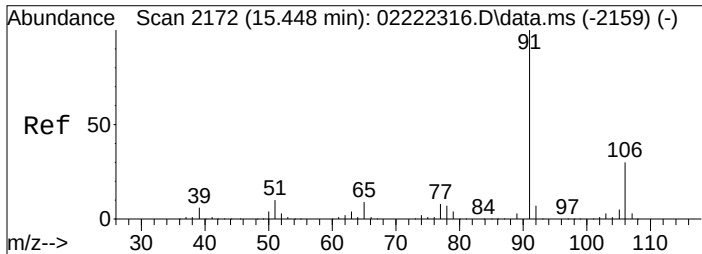
Tgt Ion:	57	Resp:	9039
Ion Ratio		Lower	Upper
57	100		
85	104.6	94.1	141.1
71	68.2	52.6	79.0



#64
Tetrachloroethene
Concen: 26.35 ng
RT: 14.08 min Scan# 1931
Delta R.T. 0.000 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:43

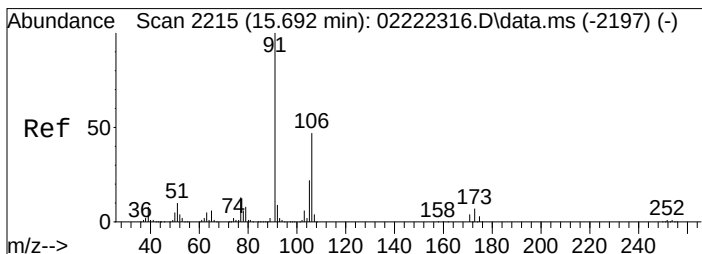
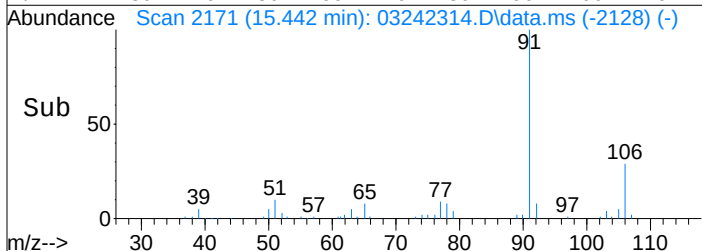
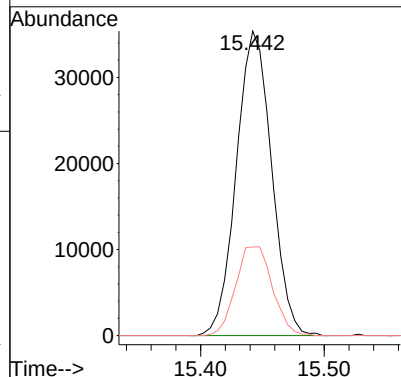
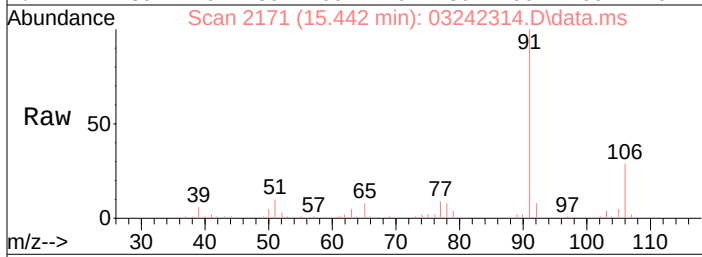
Tgt Ion:	166	Resp:	839291
Ion Ratio		Lower	Upper
166	100		
164	77.6	57.3	97.3





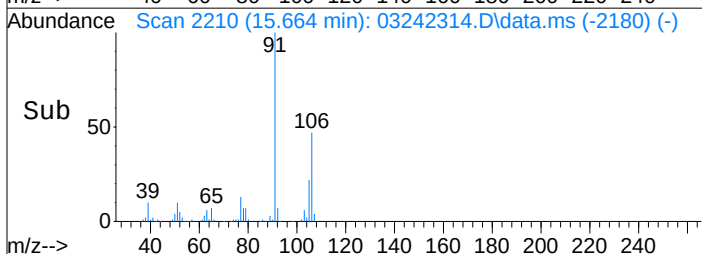
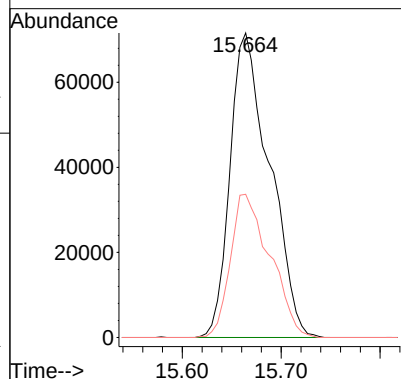
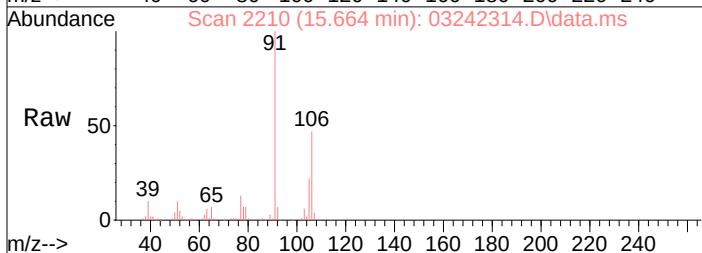
#66
Ethylbenzene
Concen: 0.56 ng
RT: 15.44 min Scan# 2171
Delta R.T. -0.006 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:43

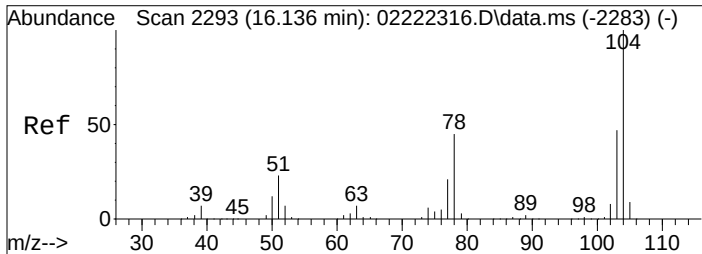
Tgt Ion	91	106	Resp	70089	Lower	Upper
Ion Ratio	100	30.5			10.4	50.4



#67
m- & p-Xylenes
Concen: 1.98 ng
RT: 15.66 min Scan# 2210
Delta R.T. -0.028 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:43

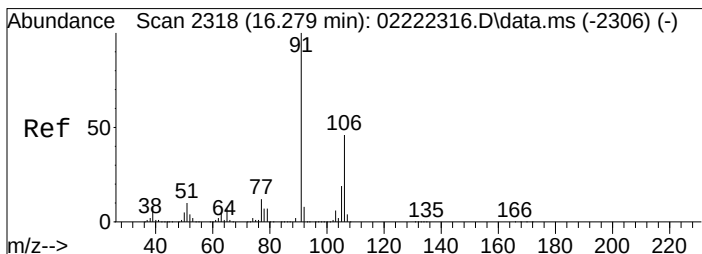
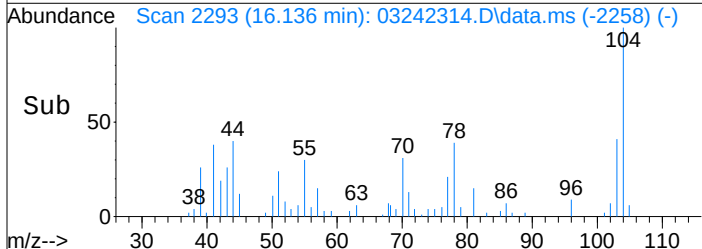
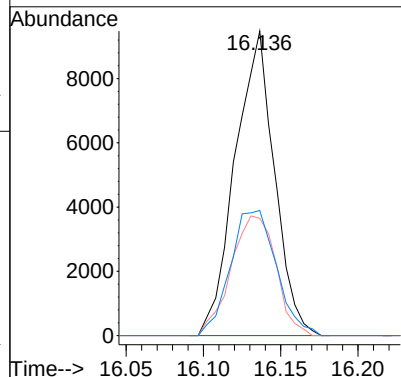
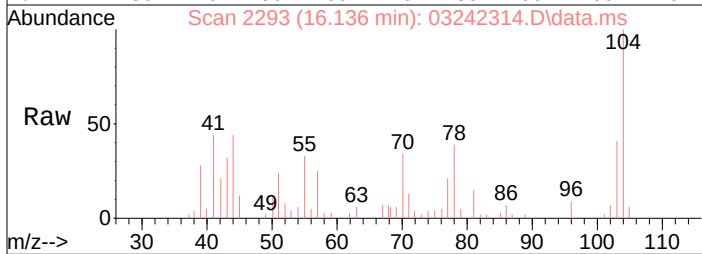
Tgt Ion	91	106	Resp	198626	Lower	Upper
Ion Ratio	100	47.2			26.2	66.2





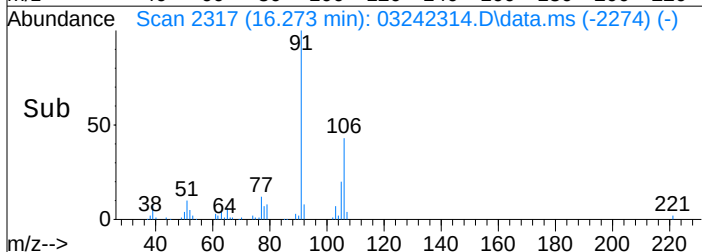
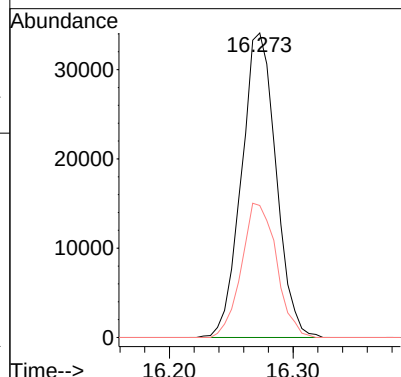
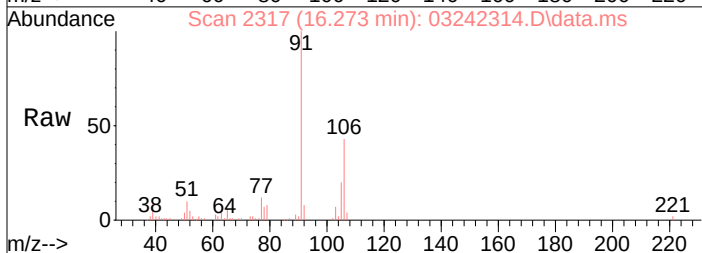
#69
Styrene
Concen: 0.24 ng
RT: 16.14 min Scan# 2293
Delta R.T. 0.000 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:43

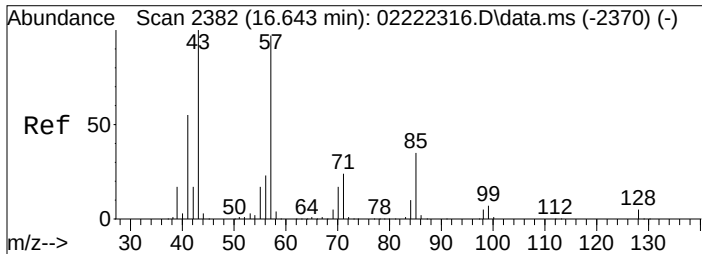
Tgt Ion: 104	Resp: 16766
Ion Ratio	Lower Upper
104 100	
78 45.0	24.7 64.7
103 48.2	27.8 67.8



#70
o-Xylene
Concen: 0.69 ng
RT: 16.27 min Scan# 2317
Delta R.T. -0.006 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:43

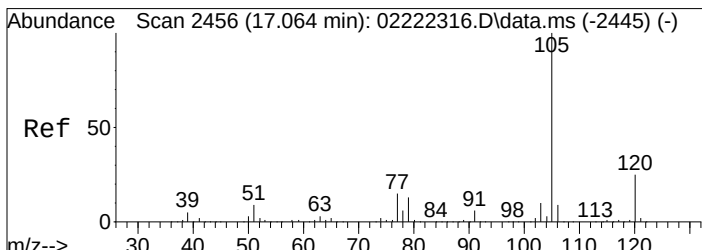
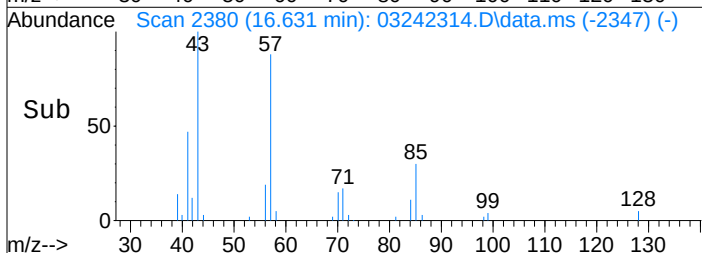
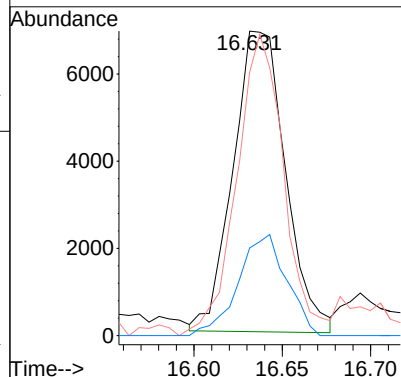
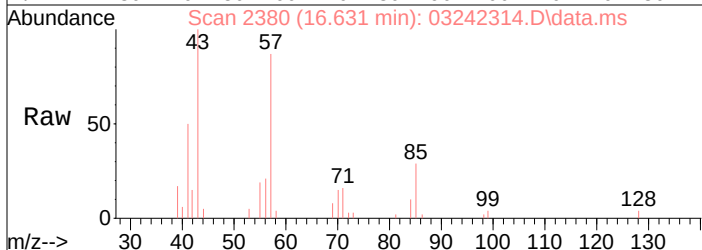
Tgt Ion: 91	Resp: 66173
Ion Ratio	Lower Upper
91 100	
106 44.7	25.4 65.4





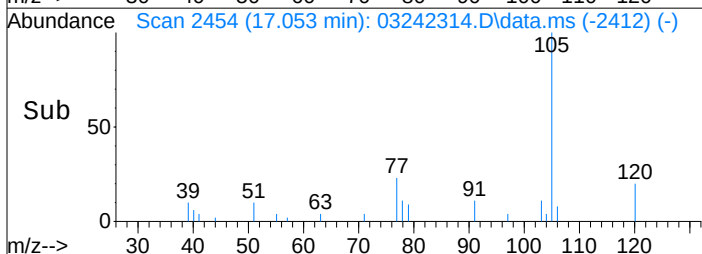
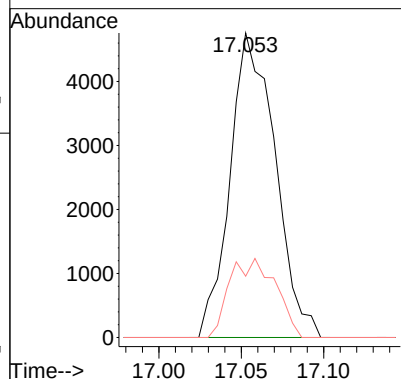
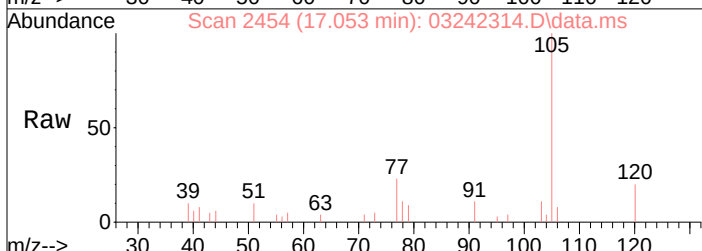
#71
n-Nonane
Concen: 0.31 ng
RT: 16.63 min Scan# 2380
Delta R.T. -0.011 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:43

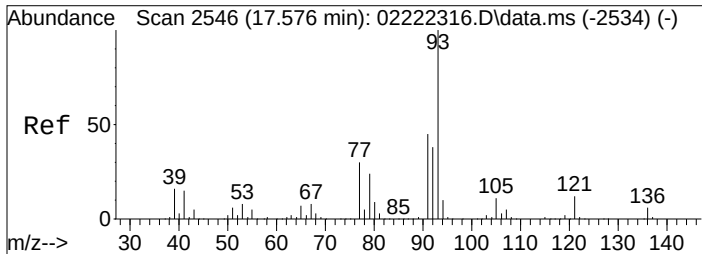
Tgt Ion:	43	Resp:	14267
Ion Ratio		Lower	Upper
43	100		
57	89.5	74.2	114.2
85	31.0	14.2	54.2



#74
Cumene
Concen: 0.08 ng
RT: 17.05 min Scan# 2454
Delta R.T. -0.011 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:43

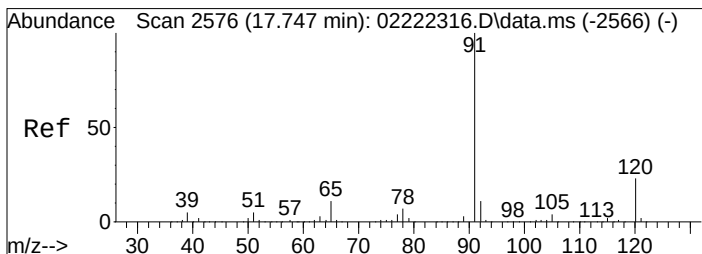
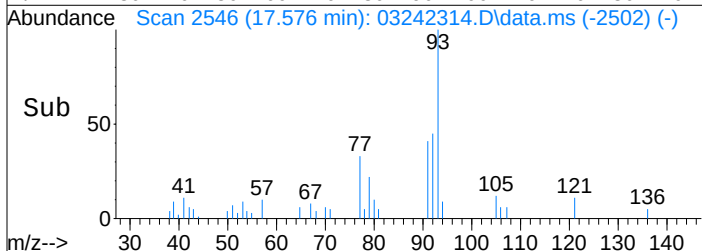
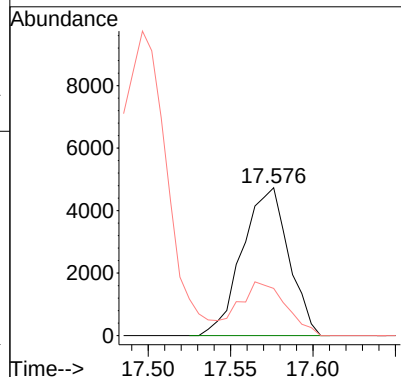
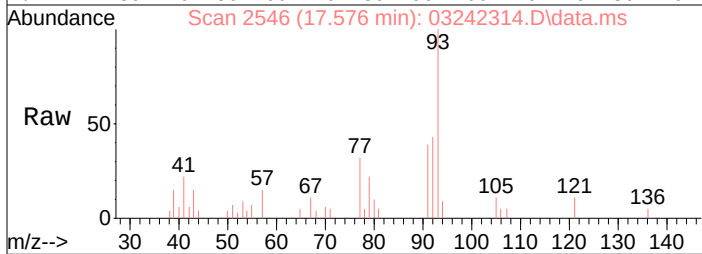
Tgt Ion:	105	Resp:	9045
Ion Ratio		Lower	Upper
105	100		
120	26.5	5.2	45.2





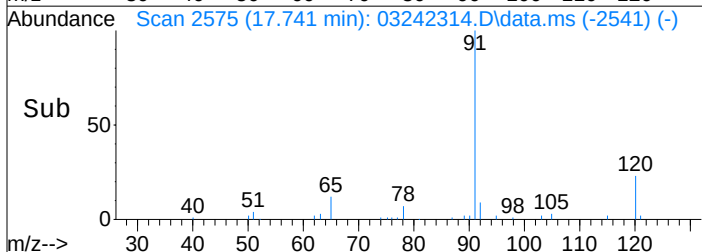
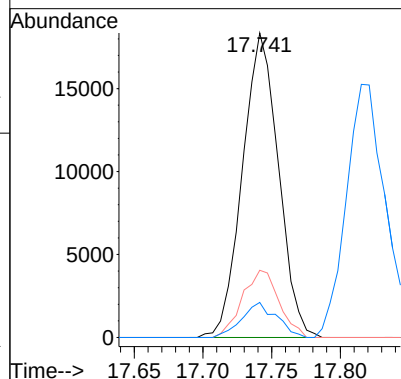
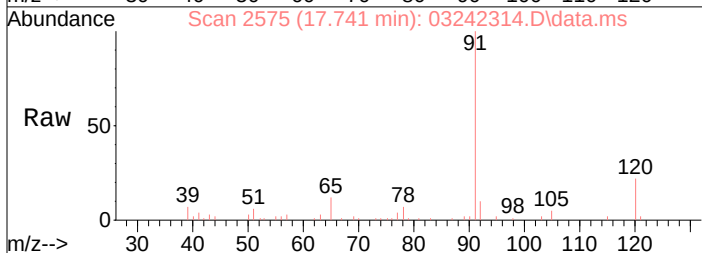
#75
 alpha-Pinene
 Concen: 0.17 ng
 RT: 17.58 min Scan# 2546
 Delta R.T. 0.000 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:43

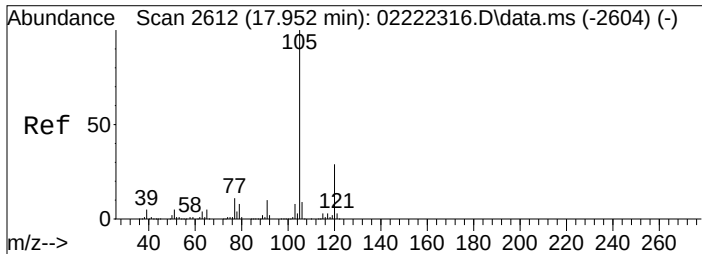
Tgt Ion:	93	Resp:	9259
Ion Ratio	Lower	Upper	
93	100		
77	36.7	11.1	51.1



#76
 n-Propylbenzene
 Concen: 0.24 ng
 RT: 17.74 min Scan# 2575
 Delta R.T. -0.006 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:43

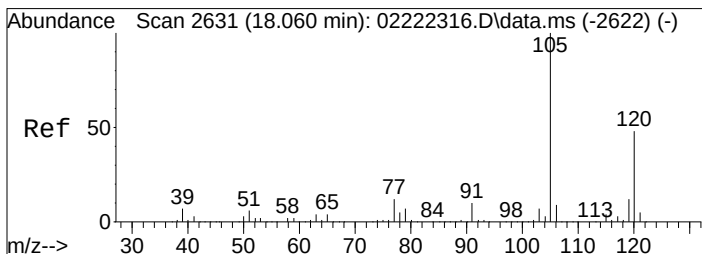
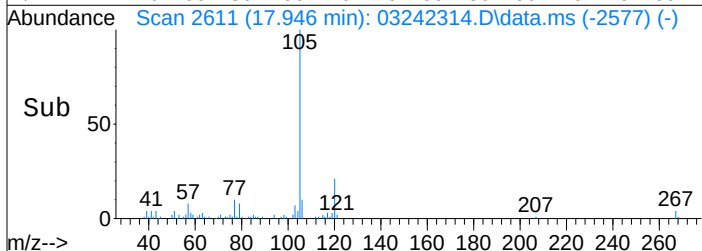
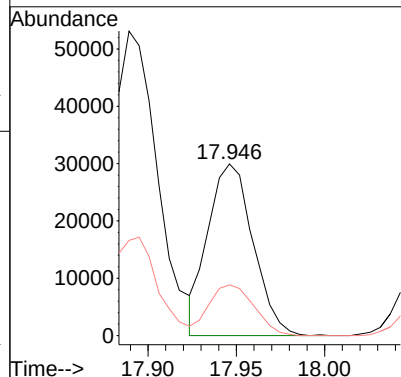
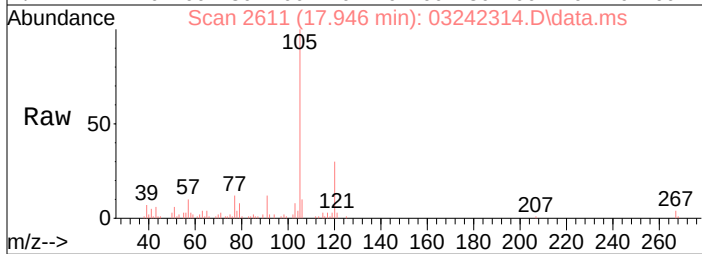
Tgt Ion:	91	Resp:	33464
Ion Ratio	Lower	Upper	
91	100		
120	22.5	2.7	42.7
65	11.1	0.0	30.7





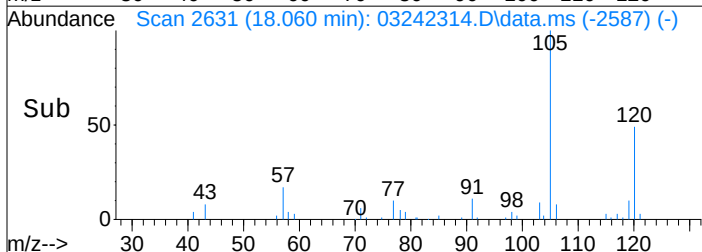
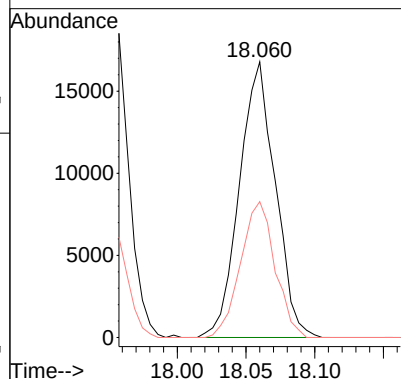
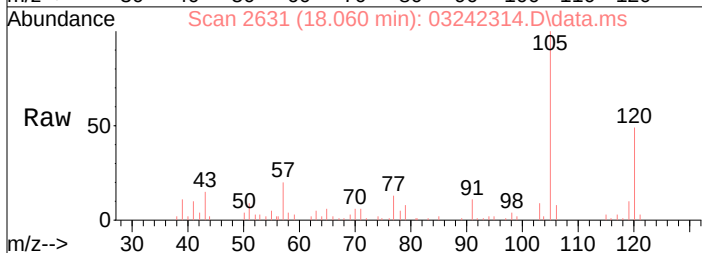
#78
 4-Ethyltoluene
 Concen: 0.47 ng
 RT: 17.95 min Scan# 2611
 Delta R.T. -0.006 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:43

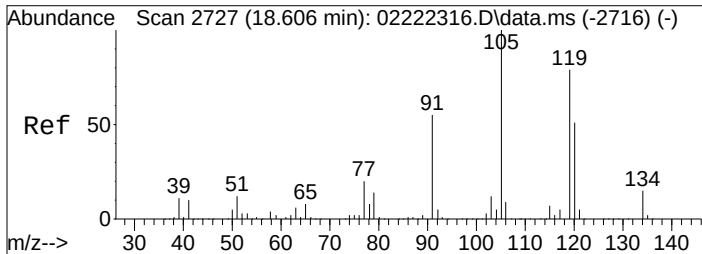
Tgt Ion	105	120	Resp	53150
Ion Ratio	100	29.7	Lower	Upper
		9.1		49.1



#79
 1,3,5-Trimethylbenzene
 Concen: 0.31 ng
 RT: 18.06 min Scan# 2631
 Delta R.T. 0.000 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:43

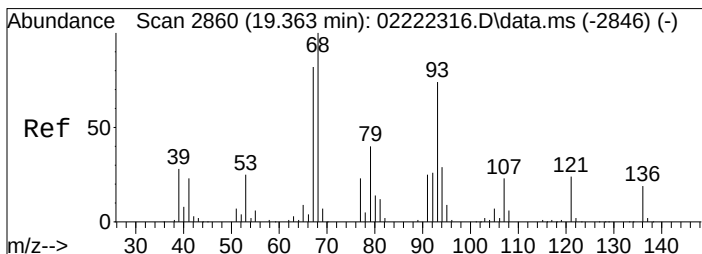
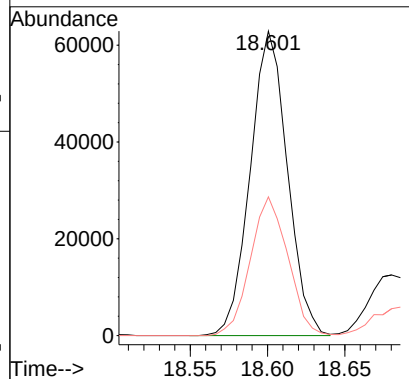
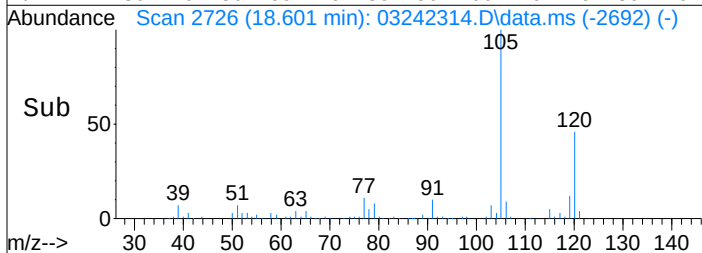
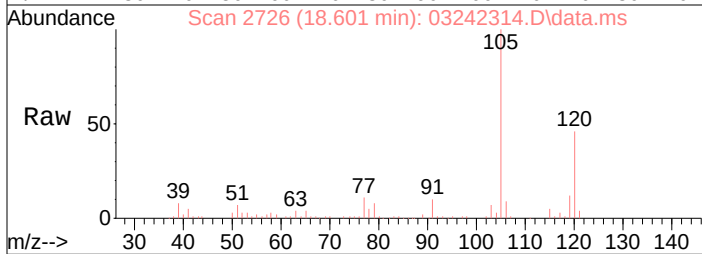
Tgt Ion	105	120	Resp	30524
Ion Ratio	100	47.3	Lower	Upper
		28.4		68.4





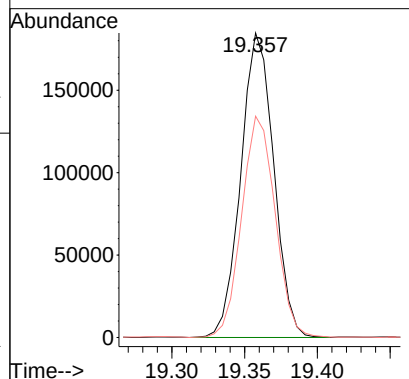
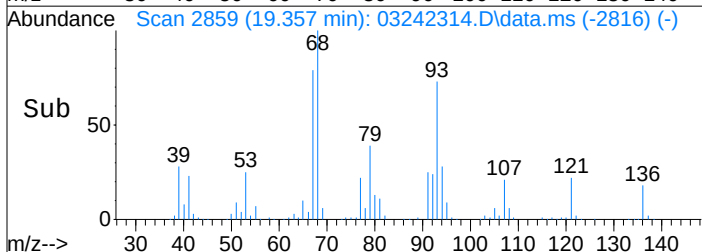
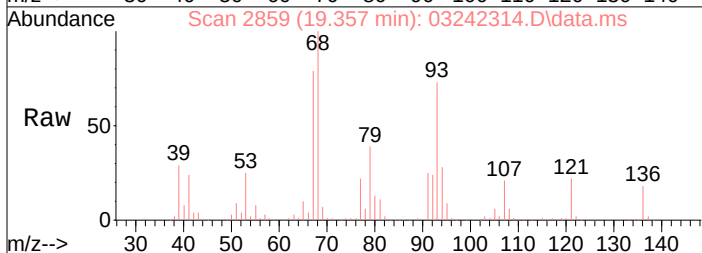
#82
 1,2,4-Trimethylbenzene
 Concen: 1.08 ng
 RT: 18.60 min Scan# 2726
 Delta R.T. -0.006 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:43

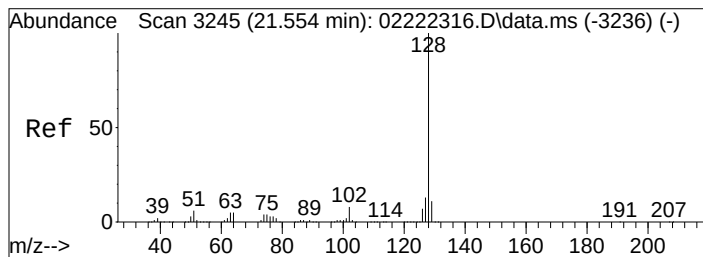
Tgt Ion:	105	Resp:	105124
Ion Ratio	Lower	Upper	
105	100		
120	46.1	32.8	72.8



#91
 d-Limonene
 Concen: 8.80 ng
 RT: 19.36 min Scan# 2859
 Delta R.T. -0.006 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:43

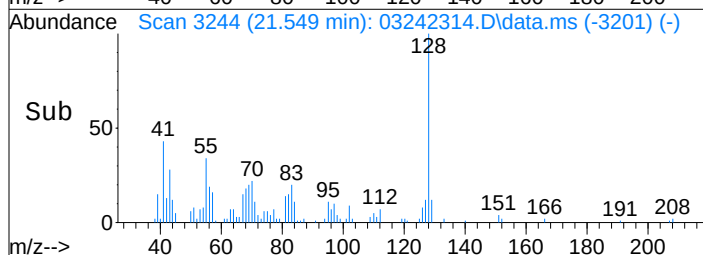
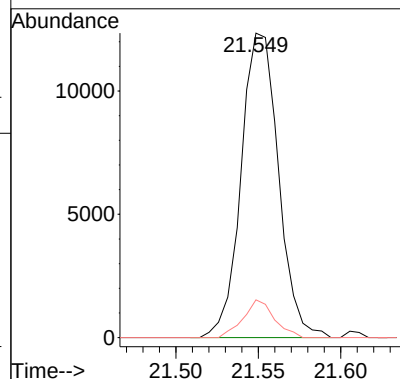
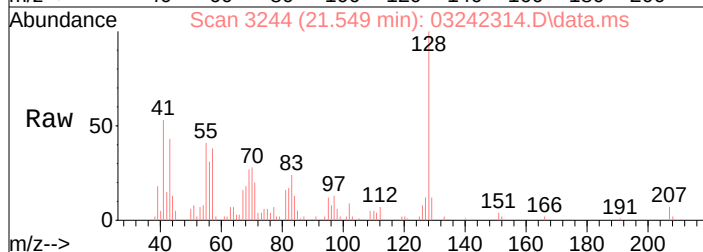
Tgt Ion:	68	Resp:	291116
Ion Ratio	Lower	Upper	
68	100		
93	74.1	54.8	94.8





#95
 Naphthalene
 Concen: 0.18 ng
 RT: 21.55 min Scan# 3244
 Delta R.T. -0.006 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:43

Tgt Ion:128 Resp: 19517
 Ion Ratio Lower Upper
 128 100
 129 10.3 0.0 30.9



Data File : I:\MS13\DATA\2023_03\24\03242314.D
 Acq On : 24 Mar 2023 13:43
 Sample : P2301250-012 (1000mL)
 Misc : S35-01202301

Vial: 5
 Operator: TZ
 Inst : MS13

TZ 3/28/23

Quant Time: Mar 28 09:45:32 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.33	130	250353	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	9.38	114	1096477	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	14.88	54	213841	12.500	ng	0.00

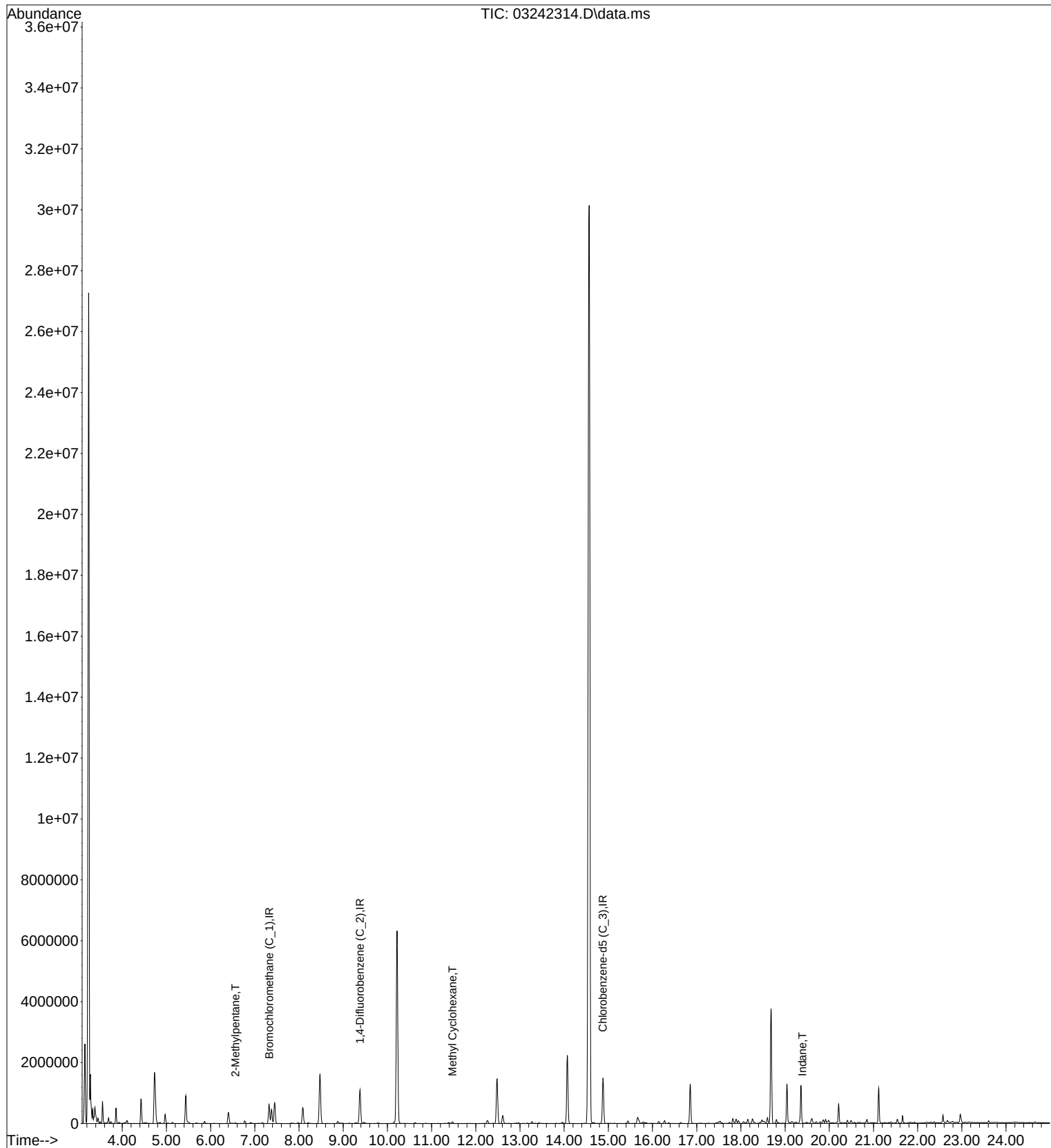
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	0.00	85	0	N.D.	d	
3) 1,1,1,2-Tetrafluoroeth...	0.00	83	0	N.D.	d	
4) 1,1-Difluoroethane	3.36	65	677	N.D.		
5) Chlorodifluoromethane ...	0.00	67	0	N.D.	d	
6) 1-Chloro-1,1-Difluoroe...	3.60	65	2649	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	4.68	83	123	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	0.00	43	0	N.D.	d	
12) 2-Methylpentane	6.56	71	4656	0.266	ng	# 1
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	8.95	75	622	N.D.		
15) Thiophene	9.14	84	1612	N.D.		
17) 2,3-Dimethylpentane	9.58	56	2467	N.D.		
18) Dibromomethane	9.88	174	414	N.D.		
20) Methyl Cyclohexane	11.48	55	23689	0.665	ng	# 84
21) 1,3-Dichloropropane	12.62	76	1247	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	15.23	91	138	N.D.		
24) 1,2,3-Trichloropropane	16.37	75	1962	N.D.		
25) Bromobenzene	17.05	77	1465	N.D.		
26) 2-Chlorotoluene	0.00	91	0	N.D.	d	
27) 4-Chlorotoluene	0.00	91	0	N.D.	d	
28) Indane	19.39	117	10889	0.101	ng	# 69
29) Indene	19.51	115	1164	N.D.		
30) 1,2,4,5-Tetramethylben...	20.64	119	6071	N.D.		
31) 1,2,3,4-Tetramethylben...	20.70	119	8258	N.D.		
32) 1,2,3,5-Tetramethylben...	21.12	119	8248	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242314.D
Acq On : 24 Mar 2023 13:43
Sample : P2301250-012 (1000mL)
Misc : S35-01202301

Vial: 5
Operator: TZ
Inst : MS13

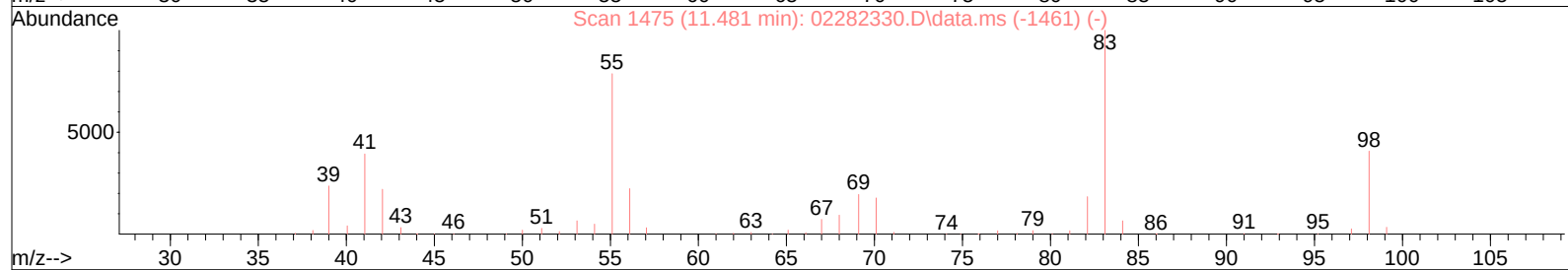
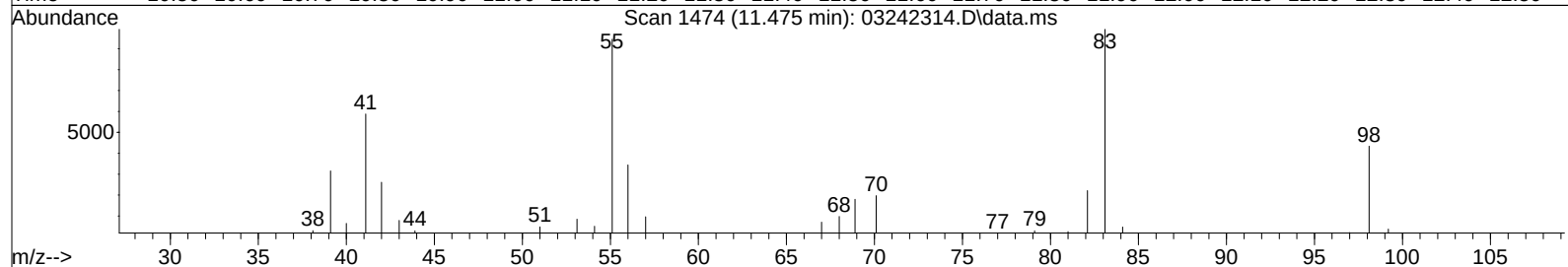
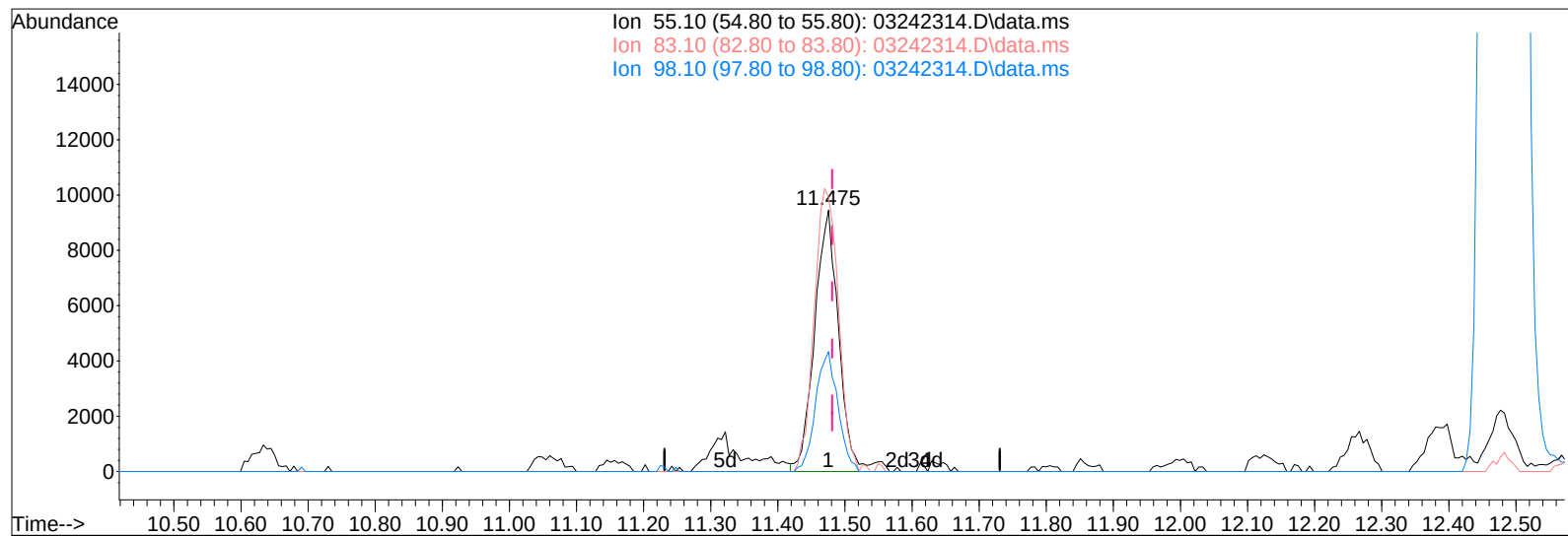
Quant Time: Mar 28 09:45:32 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242314.D
Acq On : 24 Mar 2023 13:43
Sample : P2301250-012 (1000mL)
Misc : S35-01202301

Vial: 5
Operator: TZ
Inst : MS13

Quant Time: Mar 27 16:04:09 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03242314.D\data.ms

(20) Methyl Cyclohexane (T)

11.475min (-0.006) 0.67ng

response 23689

Ion	Exp%	Act%
55.10	100	100
83.10	128.30	109.27
98.10	53.10	42.36#
0.00	0.00	0.00

Data File : I:\MS13\DATA\2023_03\24\03242316.D
 Acq On : 24 Mar 2023 14:58
 Sample : P2301250-012dil (100mL)
 Misc : S35-01202301

Vial: 5
 Operator: TZ
 Inst : MS13

Tz 3/27/23

Quant Time: Mar 27 12:15:45 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	242512	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.37	114	1051819	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.88	54	198799	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	411497	12.786	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.32%
57) Toluene-d8 (SS2)	12.48	98	1195759	11.696	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.60%
73) Bromofluorobenzene (SS3)	16.85	174	452036	12.072	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	96.56%

Target Compounds

						Qvalue
2) Propene	3.41	42	1039	N.D.		
3) Dichlorodifluoromethan...	3.46	85	5979	0.135 ng		98
4) Chloromethane	3.64	50	389	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	4.40	45	86805	5.040 ng		98
11) Acetonitrile	4.56	41	213	N.D.		
12) Acrolein	4.65	56	194	N.D.		
13) Acetone	4.74	58	67476	4.590 ng		95
14) Trichlorofluoromethane	4.87	101	2686	0.067 ng		99
15) 2-Propanol (Isopropanol)	4.95	45	40310	0.679 ng		88
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D. d		
19) Methylene Chloride	5.45	84	3350	0.155 ng		95
20) 3-Chloro-1-propene (Al...	5.59	41	198	N.D.		
21) Trichlorotrifluoroethane	5.69	151	674	N.D.		
22) Carbon Disulfide	5.73	76	5901	0.069 ng		94
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	6.41	63	5008	0.131 ng		98
25) Methyl tert-Butyl Ether	6.40	73	228	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone (MEK)	6.77	72	2672	0.205 ng	#	91
28) cis-1,2-Dichloroethene	7.16	61	1376	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D. d		
30) Ethyl Acetate	7.37	61	7301	0.851 ng		94
31) n-Hexane	7.38	57	679	N.D.		
32) Chloroform	7.44	83	53291	1.364 ng		99
34) Tetrahydrofuran (THF)	7.86	72	604	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	N.D.		
38) 1,1,1-Trichloroethane	8.46	97	115408	3.315 ng		98
39) Isopropyl Acetate	9.37	61	29426	No Calib		
40) 1-Butanol	8.90	56	4010	No Calib	#	
41) Benzene	8.97	78	1802	N.D.		
42) Carbon Tetrachloride	9.13	117	1015	N.D.		
43) Cyclohexane	9.28	84	490	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	10.14	83	2767	0.091 ng		93
47) Trichloroethene	10.21	130	261902	10.926 ng		100
48) 1,4-Dioxane	10.22	88	185	N.D.		
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS13\DATA\2023_03\24\03242316.D
 Acq On : 24 Mar 2023 14:58
 Sample : P2301250-012dil (100mL)
 Misc : S35-01202301

Vial: 5
 Operator: TZ
 Inst : MS13

Quant Time: Mar 27 12:15:45 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.64	71	600	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.41	58	1047	0.059 ng	#	73
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.61	91	22345	0.230 ng		97
59) 2-Hexanone	12.99	43	1676	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.84	43	656	N.D.		
63) n-Octane	13.95	57	658	N.D.		
64) Tetrachloroethene	14.07	166	79436	2.683 ng		100
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	15.44	91	6499	0.056 ng		91
67) m- & p-Xylenes	15.67	91	17706	0.189 ng		99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.14	104	1286	N.D.		
70) o-Xylene	16.27	91	5613	0.063 ng		93
71) n-Nonane	16.64	43	1250	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	17.06	105	1056	N.D.		
75) alpha-Pinene	17.58	93	808	N.D.		
76) n-Propylbenzene	17.75	91	3049	N.D.		
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	4952	N.D.		
79) 1,3,5-Trimethylbenzene	18.07	105	3148	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.60	105	8897	0.098 ng		92
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	18.68	146	361	N.D.		
86) 1,4-Dichlorobenzene	18.86	146	216	N.D.		
87) sec-Butylbenzene	18.96	105	395	N.D.		
88) 4-Isopropyltoluene (p-...	19.18	119	1609	N.D.		
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	19.36	68	24035	0.782 ng		99
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.28	58	144	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	379	N.D.		
95) Naphthalene	21.55	128	2598	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	21.99	225	152	N.D.		
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	18.61	119	1369	N.D.		
100) n-Butylbenzene	19.71	91	1101	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242316.D
Acq On : 24 Mar 2023 14:58
Sample : P2301250-012dil (100mL)
Misc : S35-01202301

Vial: 5
Operator: TZ
Inst : MS13

Quant Time: Mar 27 12:15:45 2023

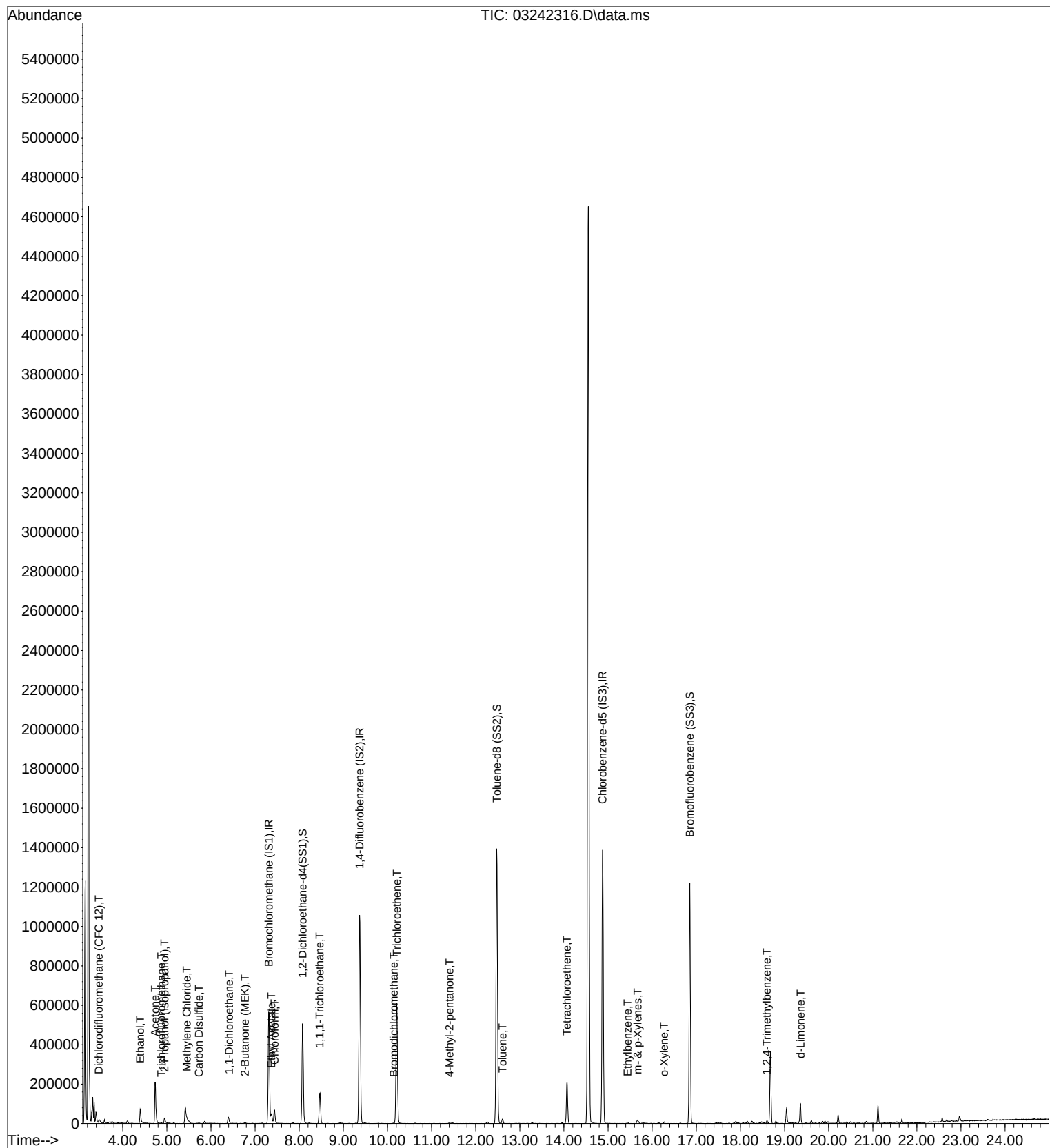
Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

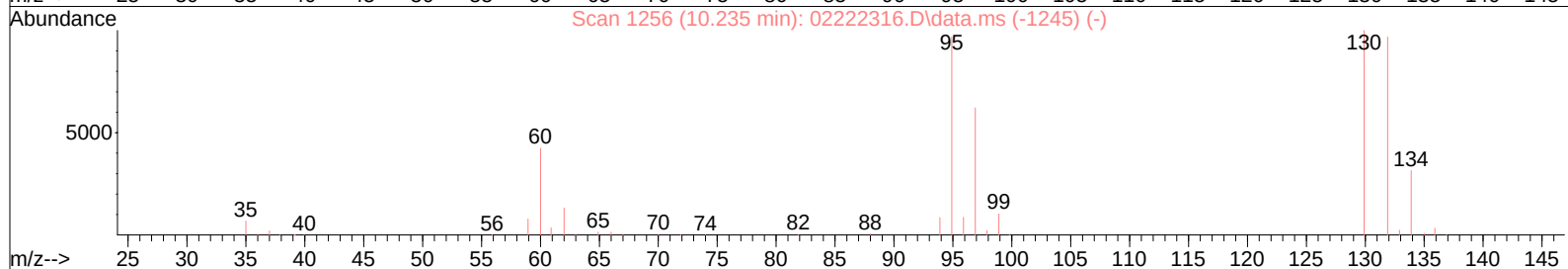
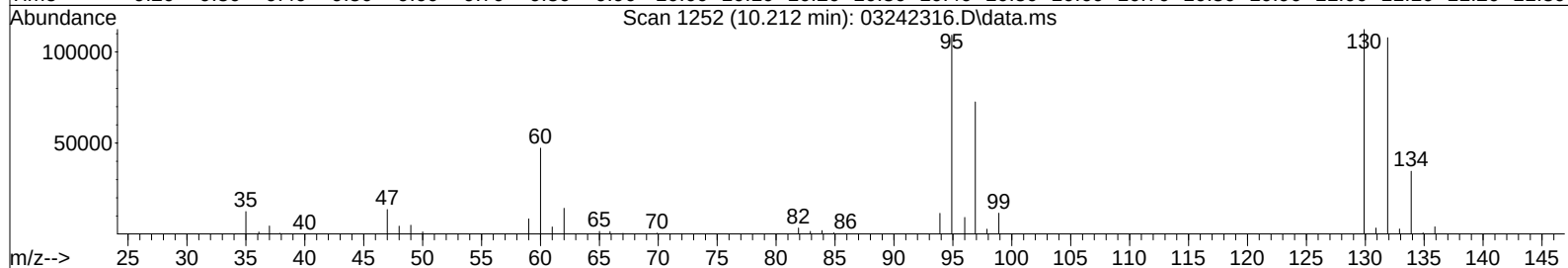
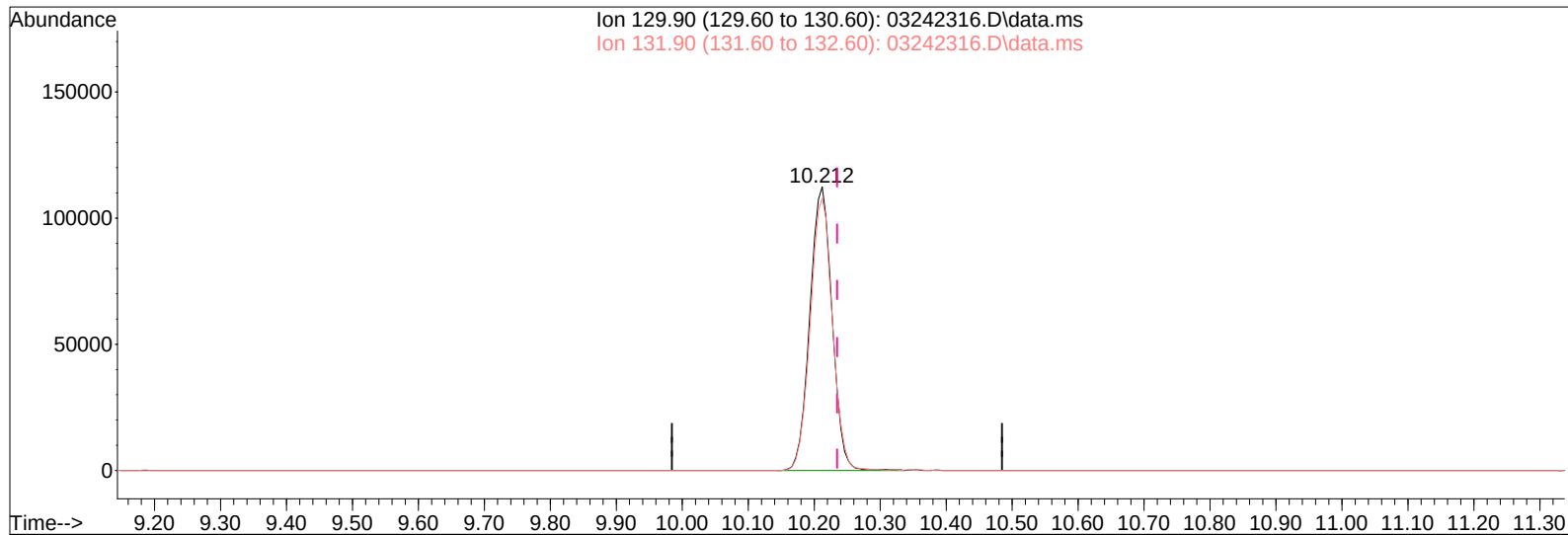


Quantitation Report (Qedit)

Data File : I:\MS13\DATA\2023_03\24\03242316.D
 Acq On : 24 Mar 2023 14:58
 Sample : P2301250-012dil (100mL)
 Misc : S35-01202301

Vial: 5
 Operator: TZ
 Inst : MS13

Quant Time: Mar 25 06:49:29 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M



TIC: 03242316.D\data.ms

(47) Trichloroethene (T)
 10.212min (-0.023) 10.93ng
 response 261902

Ion	Exp%	Act%
129.90	100	100
131.90	96.30	96.26
0.00	0.00	0.00
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG11A

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC01850

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23 & 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -2.62 Final Pressure (psig): 4.90

Container Dilution Factor: 1.62

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	0.86	0.14	0.44	0.17	0.029	
74-87-3	Chloromethane	ND	0.34	0.14	ND	0.16	0.067	
75-01-4	Vinyl Chloride	0.47	0.18	0.092	0.18	0.070	0.036	
74-83-9	Bromomethane	ND	0.34	0.12	ND	0.088	0.031	
75-00-3	Chloroethane	ND	0.34	0.11	ND	0.13	0.041	
67-64-1	Acetone	120	8.5	1.9	49	3.6	0.82	
75-69-4	Trichlorofluoromethane	4.0	0.84	0.13	0.71	0.15	0.023	
75-35-4	1,1-Dichloroethene	ND	0.18	0.12	ND	0.045	0.030	
75-09-2	Methylene Chloride	3.3	0.86	0.24	0.95	0.25	0.070	
76-13-1	Trichlorotrifluoroethane	0.51	0.87	0.12	0.067	0.11	0.016	J
75-15-0	Carbon Disulfide	3.5	1.7	0.26	1.1	0.56	0.083	
156-60-5	trans-1,2-Dichloroethene	ND	0.18	0.12	ND	0.045	0.030	
75-34-3	1,1-Dichloroethane	ND	0.18	0.13	ND	0.044	0.031	
1634-04-4	Methyl tert-Butyl Ether	ND	0.87	0.10	ND	0.24	0.028	
78-93-3	2-Butanone (MEK)	9.3	1.7	0.18	3.2	0.57	0.060	
156-59-2	cis-1,2-Dichloroethene	ND	0.18	0.12	ND	0.045	0.031	
67-66-3	Chloroform	5.8	0.18	0.12	1.2	0.037	0.024	
107-06-2	1,2-Dichloroethane	ND	0.18	0.096	ND	0.044	0.024	
71-55-6	1,1,1-Trichloroethane	93	0.18	0.11	17	0.033	0.020	
71-43-2	Benzene	3.0	0.18	0.12	0.95	0.056	0.039	
56-23-5	Carbon Tetrachloride	0.15	0.18	0.12	0.024	0.028	0.019	J
110-82-7	Cyclohexane	3.1	1.7	0.24	0.91	0.49	0.071	
78-87-5	1,2-Dichloropropane	ND	0.18	0.11	ND	0.039	0.023	
75-27-4	Bromodichloromethane	ND	0.18	0.12	ND	0.027	0.019	
79-01-6	Trichloroethene	12	0.18	0.12	2.2	0.033	0.022	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG11A

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC01850

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23 & 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -2.62 Final Pressure (psig): 4.90

Container Dilution Factor: 1.62

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.87	0.13	ND	0.19	0.030	
108-10-1	4-Methyl-2-pentanone	1.3	1.8	0.12	0.31	0.44	0.029	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.83	0.18	ND	0.18	0.039	
79-00-5	1,1,2-Trichloroethane	ND	0.18	0.087	ND	0.033	0.016	
108-88-3	Toluene	17	0.86	0.11	4.6	0.23	0.028	
591-78-6	2-Hexanone	ND	1.8	0.11	ND	0.44	0.026	
124-48-1	Dibromochloromethane	ND	0.18	0.11	ND	0.021	0.013	
106-93-4	1,2-Dibromoethane	ND	0.18	0.10	ND	0.023	0.013	
127-18-4	Tetrachloroethene	260	1.8	1.1	39	0.26	0.16	D
108-90-7	Chlorobenzene	ND	0.86	0.12	ND	0.19	0.025	
100-41-4	Ethylbenzene	1.0	0.86	0.12	0.23	0.20	0.028	
179601-23-1	m,p-Xylenes	6.1	1.8	0.23	1.4	0.41	0.052	
75-25-2	Bromoform	ND	0.87	0.18	ND	0.085	0.017	
100-42-5	Styrene	0.46	0.86	0.14	0.11	0.20	0.033	J
95-47-6	o-Xylene	2.1	0.86	0.12	0.49	0.20	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.18	0.12	ND	0.026	0.017	
98-82-8	Cumene	0.19	0.87	0.12	0.040	0.18	0.025	J
541-73-1	1,3-Dichlorobenzene	ND	0.86	0.13	ND	0.14	0.022	
106-46-7	1,4-Dichlorobenzene	ND	0.86	0.13	ND	0.14	0.022	
95-50-1	1,2-Dichlorobenzene	ND	0.87	0.13	ND	0.15	0.021	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.8	0.16	ND	0.18	0.017	
120-82-1	1,2,4-Trichlorobenzene	ND	1.8	0.21	ND	0.24	0.028	
79-20-9	Methyl Acetate	ND	0.81	0.39	ND	0.27	0.13	X
108-87-2	Methylcyclohexane	9.3	0.81	0.42	2.3	0.20	0.10	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

D = The reported result is from a dilution.

X = See case narrative.

Data File : I:\MS13\DATA\2023_03\24\03242318.D
 Acq On : 24 Mar 2023 16:45
 Sample : P2301250-013 (1000mL)
 Misc : S35-01202301

Vial: 2
 Operator: TZ
 Inst : MS13

T2 3/27/23

Quant Time: Mar 27 12:20:34 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.33	130	245357	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	9.38	114	1075408	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	207405	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.10	65	424565	13.039	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	104.32%
57) Toluene-d8 (SS2)	12.48	98	1218308	11.422	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	91.36%
73) Bromofluorobenzene (SS3)	16.85	174	463818	11.872	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.96%

Target Compounds

						Qvalue
2) Propene	3.33	42	457	N.D.		
3) Dichlorodifluoromethan...	3.46	85	60275	1.341 ng		98
4) Chloromethane	0.00	50	0	N.D. d		
5) 1,2-Dichloro-1,1,2,2-t...	3.73	135	1820	0.080 ng		78
6) Vinyl Chloride	3.79	62	8637	0.288 ng		96
7) 1,3-Butadiene	0.00	54	0	N.D. d		
8) Bromomethane	4.13	94	302	N.D.		
9) Chloroethane	4.28	64	626	N.D.		
10) Ethanol	4.44	45	1856041	106.513 ng		100
11) Acetonitrile	4.57	41	49808	1.100 ng		97
12) Acrolein	4.66	56	909	0.063 ng		95
13) Acetone	4.75	58	1060111	71.282 ng		97
14) Trichlorofluoromethane	4.86	101	99299	2.454 ng		98
15) 2-Propanol (Isopropanol)	4.99	45	842581	14.034 ng		99
16) Acrylonitrile	0.00	53	0	N.D. d		
17) 1,1-Dichloroethene	5.35	96	373	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D. d		
19) Methylene Chloride	5.47	84	44266	2.030 ng		79
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D. d		
21) Trichlorotrifluoroethane	5.68	151	6751	0.317 ng		97
22) Carbon Disulfide	5.70	76	188842	2.187 ng		100
23) trans-1,2-Dichloroethene	6.25	61	1582	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D. d		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D. d		
26) Vinyl Acetate	0.00	86	0	N.D. d		
27) 2-Butanone (MEK)	6.77	72	76039	5.760 ng		95
28) cis-1,2-Dichloroethene	7.18	61	2025	0.065 ng		96
29) Diisopropyl Ether	0.00	87	0	N.D. d		
30) Ethyl Acetate	7.38	61	40963	4.718 ng		99
31) n-Hexane	7.39	57	124841	3.736 ng		99
32) Chloroform	7.46	83	141545	3.581 ng		99
34) Tetrahydrofuran (THF)	7.86	72	11894	0.877 ng	#	52
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.22	62	509	N.D.		
38) 1,1,1-Trichloroethane	8.48	97	2040339	57.320 ng		99
39) Isopropyl Acetate	9.38	61	31152	No Calib		
40) 1-Butanol	8.89	56	57046	No Calib	#	
41) Benzene	8.98	78	156772	1.874 ng		99
42) Carbon Tetrachloride	9.16	117	2946	0.094 ng		99
43) Cyclohexane	9.29	84	59272	1.933 ng		95
44) tert-Amyl Methyl Ether	9.71	73	867	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D. d		
47) Trichloroethene	10.22	130	176524	7.202 ng		99
48) 1,4-Dioxane	0.00	88	0	N.D. d		
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D. d		
50) Methyl Methacrylate	0.00	100	0	N.D. d		

Data File : I:\MS13\DATA\2023_03\24\03242318.D
 Acq On : 24 Mar 2023 16:45
 Sample : P2301250-013 (1000mL)
 Misc : S35-01202301

Vial: 2
 Operator: TZ
 Inst : MS13

Quant Time: Mar 27 12:20:34 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.63	71	72040	3.559	ng	98
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.	d	
53) 4-Methyl-2-pentanone	11.39	58	14340	0.795	ng	97
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	12.12	97	699	N.D.		
58) Toluene	12.61	91	1082465	10.660	ng	100
59) 2-Hexanone	0.00	43	0	N.D.	d	
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.82	43	11303	0.202	ng	97
63) n-Octane	13.96	57	42703	2.139	ng	94
64) Tetrachloroethene	14.08	166	4403195	142.541	ng	99
65) Chlorobenzene	14.93	112	2173	N.D.		
66) Ethylbenzene	15.44	91	75694	0.625	ng	99
67) m- & p-Xylenes	15.66	91	368176	3.776	ng	99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.14	104	19011	0.284	ng	99
70) o-Xylene	16.27	91	121999	1.309	ng	100
71) n-Nonane	16.64	43	48581	1.077	ng	97
72) 1,1,2,2-Tetrachloroethane	16.24	83	196	N.D.		
74) Cumene	17.06	105	13567	0.120	ng	95
75) alpha-Pinene	17.58	93	10292	0.197	ng	96
76) n-Propylbenzene	17.74	91	30470	0.224	ng	98
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	40575	0.373	ng	96
79) 1,3,5-Trimethylbenzene	18.06	105	52531	0.546	ng	100
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.60	105	97024	1.023	ng	90
83) n-Decane	17.03	58	230	No Calib	#	
84) Benzyl Chloride	18.76	91	657	N.D.		
85) 1,3-Dichlorobenzene	18.77	146	2904	0.051	ng	94
86) 1,4-Dichlorobenzene	18.86	146	2722	N.D.		
87) sec-Butylbenzene	18.96	105	3852	N.D.		
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.	d	
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.30	146	2433	N.D.		
91) d-Limonene	19.36	68	177212	5.526	ng	98
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.26	58	3922	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	956	N.D.		
95) Naphthalene	21.55	128	8780	0.085	ng	95
96) n-Dodecane	19.11	58	798	No Calib	#	
97) Hexachlorobutadiene	21.99	225	353	N.D.		
98) Cyclohexanone	15.66	55	441	No Calib	#	
99) tert-Butylbenzene	0.00	119	0	N.D.	d	
100) n-Butylbenzene	0.00	91	0	N.D.	d	
101) 1,1,1,2-Tetrachloroethane	14.91	131	135	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242318.D
Acq On : 24 Mar 2023 16:45
Sample : P2301250-013 (1000mL)
Misc : S35-01202301

Vial: 2
Operator: TZ
Inst : MS13

Quant Time: Mar 27 12:20:34 2023

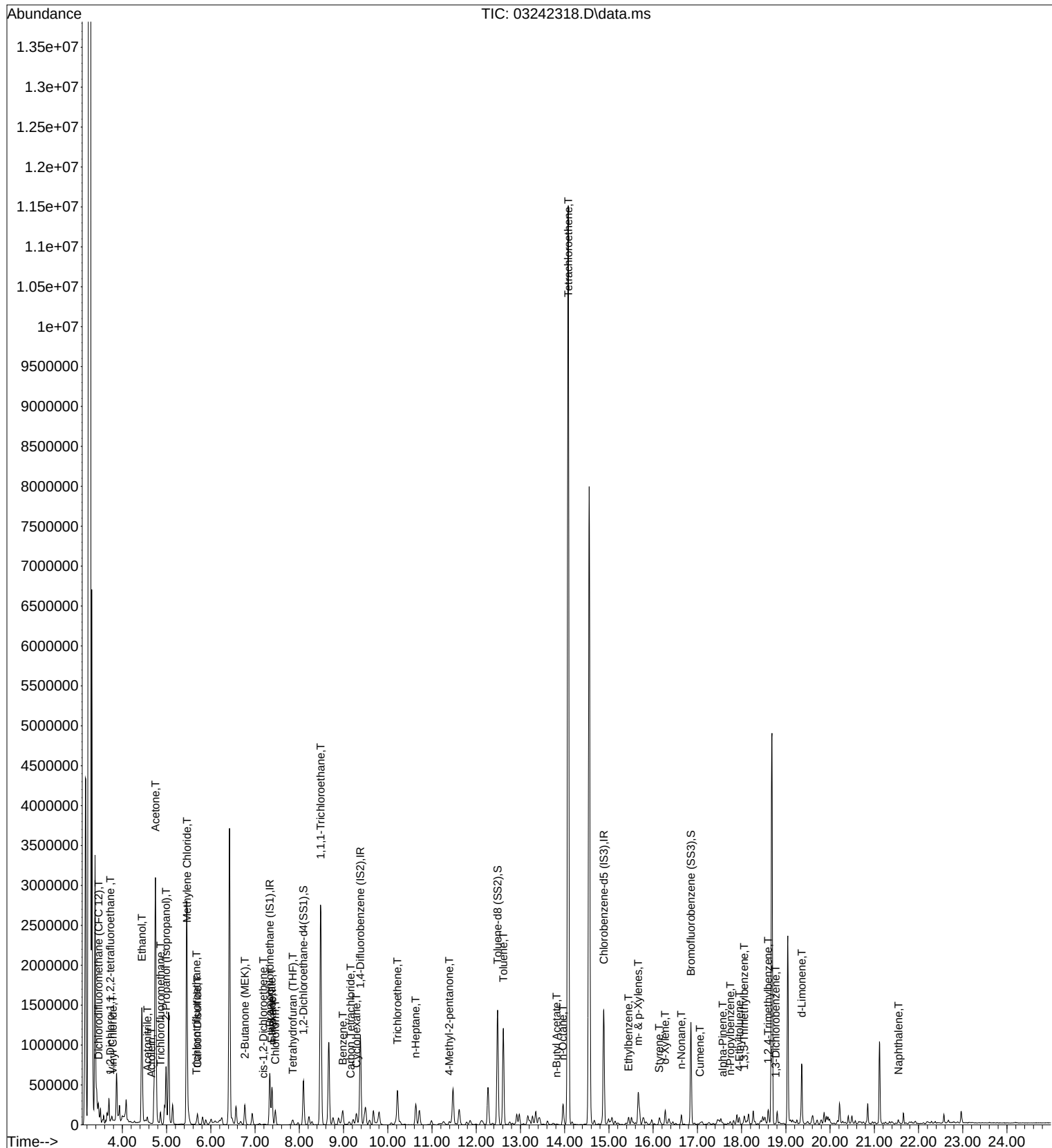
Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242318.D
 Acq On : 24 Mar 2023 16:45
 Sample : P2301250-013 (1000mL)
 Misc : S35-01202301

Vial: 2
 Operator: TZ
 Inst : MS13

TZ 3/27/23

Quant Time: Mar 27 12:20:34 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.33	130	245357	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	9.38	114	1075408	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	207405	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.10	65	424565	13.039	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	104.32%
57) Toluene-d8 (SS2)	12.48	98	1218308	11.422	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	91.36%
73) Bromofluorobenzene (SS3)	16.85	174	463818	11.872	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.96%

Target Compounds

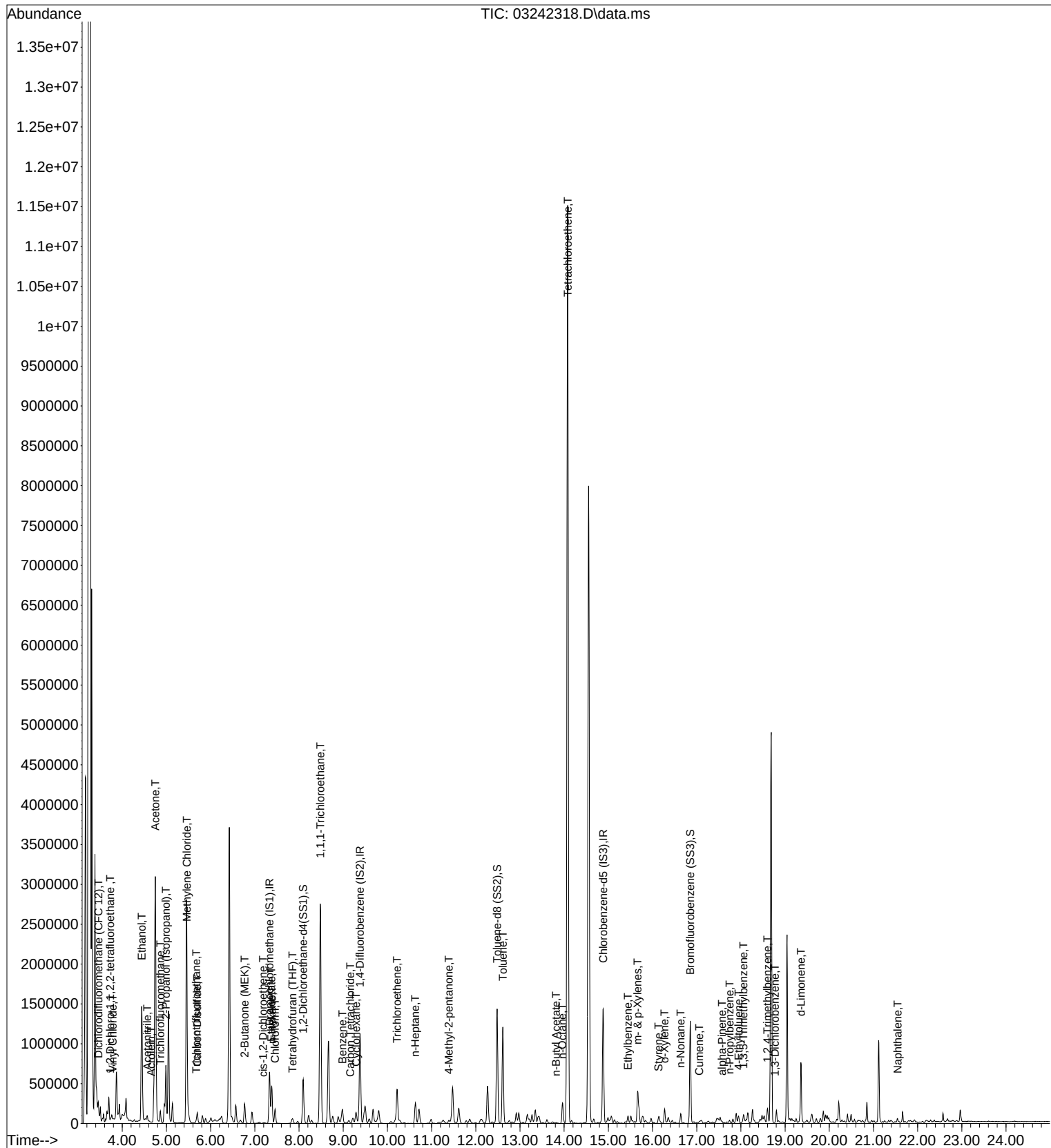
						Qvalue
3) Dichlorodifluoromethan...	3.46	85	60275	1.341	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	3.73	135	1820	0.080	ng	78
6) Vinyl Chloride	3.79	62	8637	0.288	ng	96
10) Ethanol	4.44	45	1856041	106.513	ng	100
11) Acetonitrile	4.57	41	49808	1.100	ng	97
12) Acrolein	4.66	56	909	0.063	ng	95
13) Acetone	4.75	58	1060111	71.282	ng	97
14) Trichlorofluoromethane	4.86	101	99299	2.454	ng	98
15) 2-Propanol (Isopropanol)	4.99	45	842581	14.034	ng	99
19) Methylene Chloride	5.47	84	44266	2.030	ng	79
21) Trichlorotrifluoroethane	5.68	151	6751	0.317	ng	97
22) Carbon Disulfide	5.70	76	188842	2.187	ng	100
27) 2-Butanone (MEK)	6.77	72	76039	5.760	ng	95
28) cis-1,2-Dichloroethene	7.18	61	2025	0.065	ng	96
30) Ethyl Acetate	7.38	61	40963	4.718	ng	99
31) n-Hexane	7.39	57	124841	3.736	ng	99
32) Chloroform	7.46	83	141545	3.581	ng	99
34) Tetrahydrofuran (THF)	7.86	72	11894	0.877	ng	# 52
38) 1,1,1-Trichloroethane	8.48	97	2040339	57.320	ng	99
41) Benzene	8.98	78	156772	1.874	ng	99
42) Carbon Tetrachloride	9.16	117	2946	0.094	ng	99
43) Cyclohexane	9.29	84	59272	1.933	ng	95
47) Trichloroethene	10.22	130	176524	7.202	ng	99
51) n-Heptane	10.63	71	72040	3.559	ng	98
53) 4-Methyl-2-pentanone	11.39	58	14340	0.795	ng	97
58) Toluene	12.61	91	1082465	10.660	ng	100
62) n-Butyl Acetate	13.82	43	11303	0.202	ng	97
63) n-Octane	13.96	57	42703	2.139	ng	94
64) Tetrachloroethene	14.08	166	4403195	142.541	ng	99
66) Ethylbenzene	15.44	91	75694	0.625	ng	99
67) m- & p-Xylenes	15.66	91	368176	3.776	ng	99
69) Styrene	16.14	104	19011	0.284	ng	99
70) o-Xylene	16.27	91	121999	1.309	ng	100
71) n-Nonane	16.64	43	48581	1.077	ng	97
74) Cumene	17.06	105	13567	0.120	ng	95
75) alpha-Pinene	17.58	93	10292	0.197	ng	96
76) n-Propylbenzene	17.74	91	30470	0.224	ng	98
78) 4-Ethyltoluene	17.95	105	40575	0.373	ng	96
79) 1,3,5-Trimethylbenzene	18.06	105	52531	0.546	ng	100
82) 1,2,4-Trimethylbenzene	18.60	105	97024	1.023	ng	90
85) 1,3-Dichlorobenzene	18.77	146	2904	0.051	ng	94
91) d-Limonene	19.36	68	177212	5.526	ng	98
95) Naphthalene	21.55	128	8780	0.085	ng	95

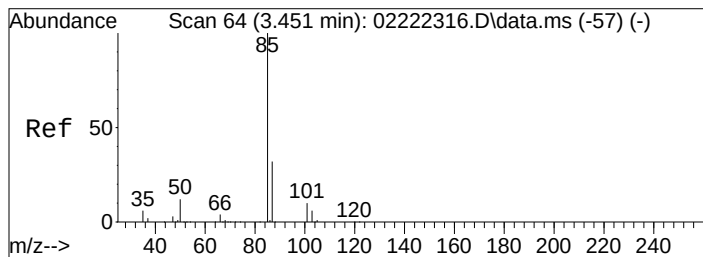
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS13\DATA\2023_03\24\03242318.D
Acq On : 24 Mar 2023 16:45
Sample : P2301250-013 (1000mL)
Misc : S35-01202301

Vial: 2
Operator: TZ
Inst : MS13

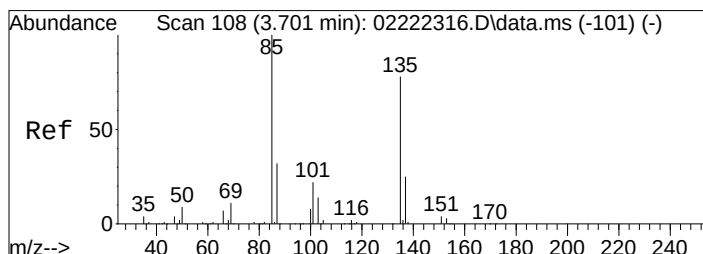
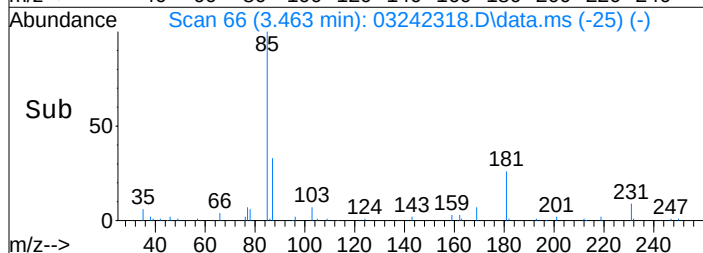
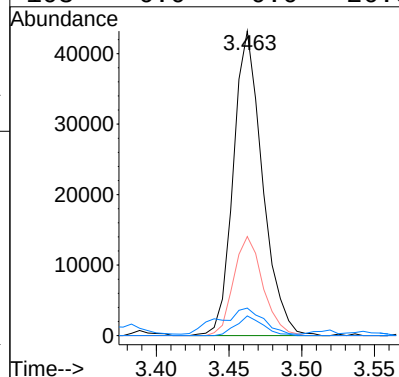
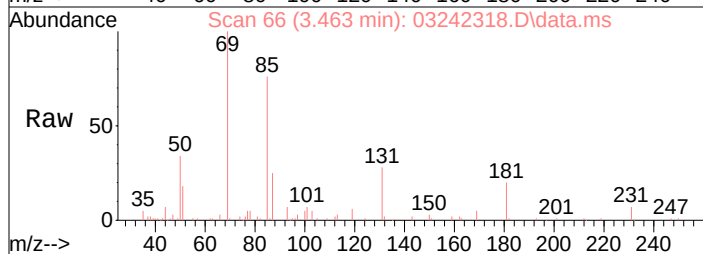
Quant Time: Mar 27 12:20:34 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M





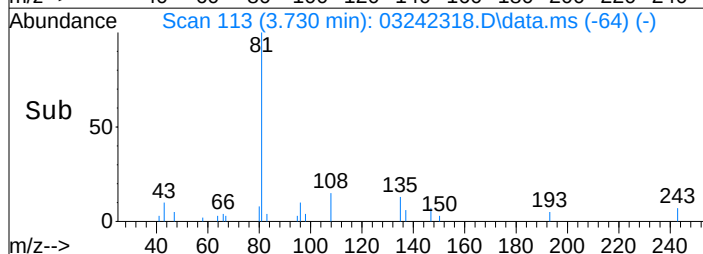
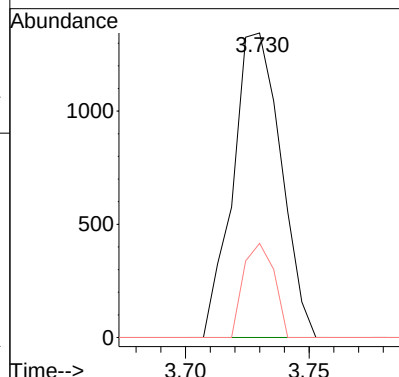
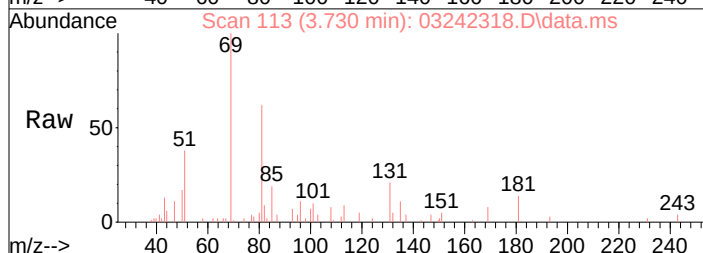
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.34 ng
 RT: 3.46 min Scan# 66
 Delta R.T. -0.015 min
 Lab File: 03242318.D
 Acq: 24 Mar 2023 16:45

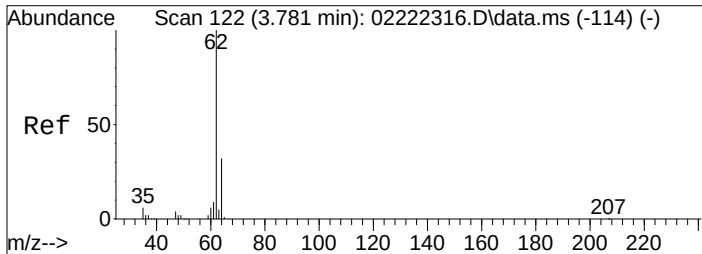
Tgt Ion:	85	Resp:	60275
Ion Ratio		Lower	Upper
85	100		
87	32.6	12.4	52.4
101	12.8	0.0	29.4
103	6.0	0.0	26.0



#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.08 ng
 RT: 3.73 min Scan# 113
 Delta R.T. 0.029 min
 Lab File: 03242318.D
 Acq: 24 Mar 2023 16:45

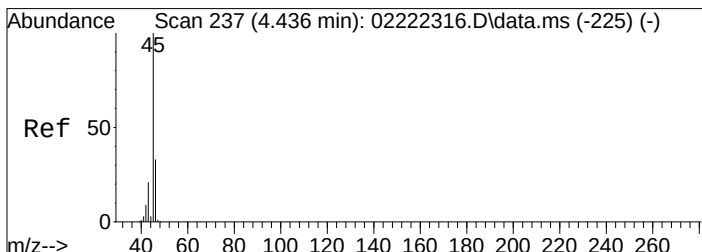
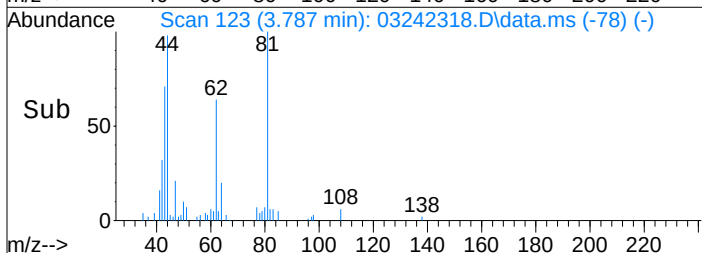
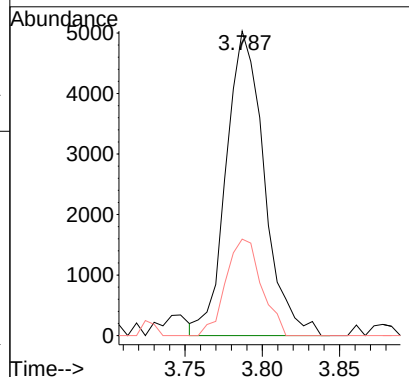
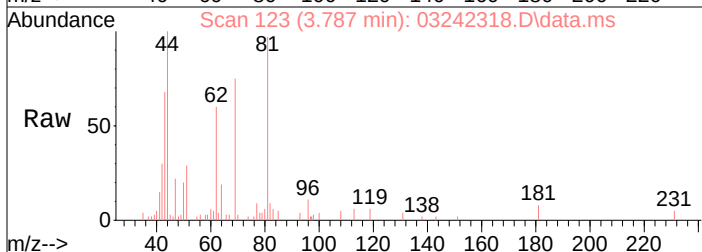
Tgt Ion:	135	Resp:	1820
Ion Ratio		Lower	Upper
135	100		
137	19.8	12.2	52.2





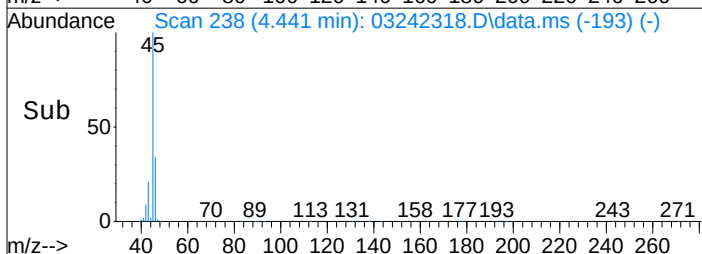
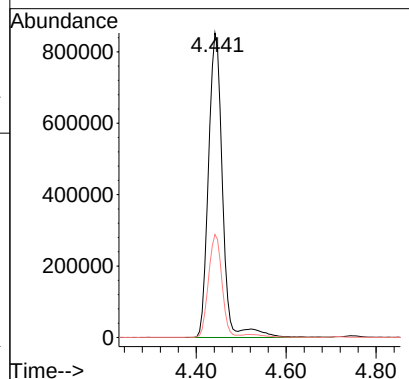
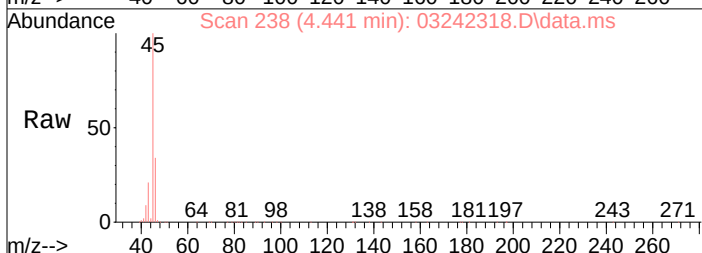
#6
 Vinyl Chloride
 Concen: 0.29 ng
 RT: 3.79 min Scan# 123
 Delta R.T. 0.006 min
 Lab File: 03242318.D
 Acq: 24 Mar 2023 16:45

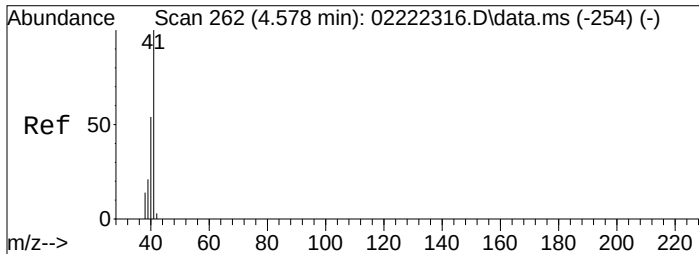
Tgt Ion: 62 Resp: 8637
 Ion Ratio Lower Upper
 62 100
 64 29.7 11.8 51.8



#10
 Ethanol
 Concen: 106.51 ng
 RT: 4.44 min Scan# 238
 Delta R.T. 0.006 min
 Lab File: 03242318.D
 Acq: 24 Mar 2023 16:45

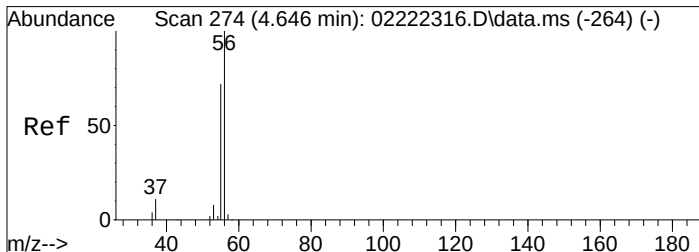
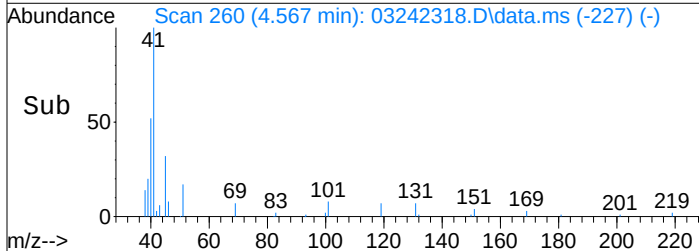
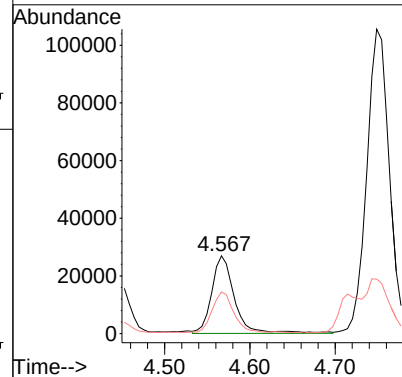
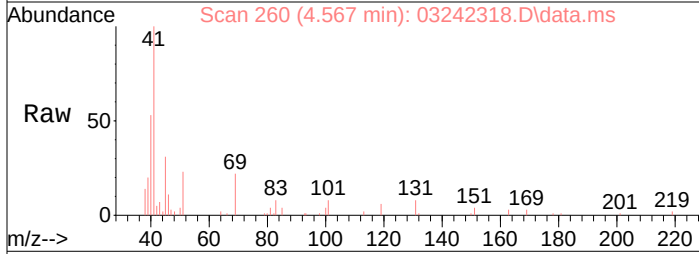
Tgt Ion: 45 Resp: 1856041
 Ion Ratio Lower Upper
 45 100
 46 34.0 13.8 53.8





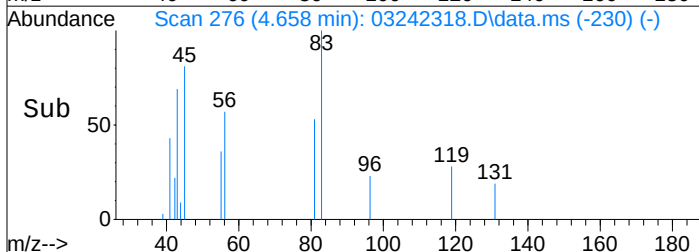
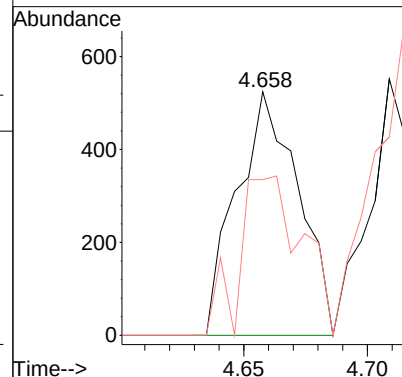
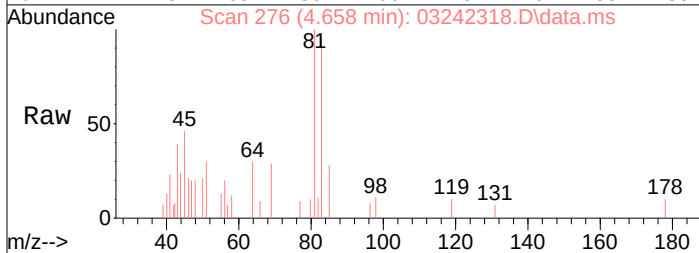
#11
Acetonitrile
Concen: 1.10 ng
RT: 4.57 min Scan# 260
Delta R.T. -0.011 min
Lab File: 03242318.D
Acq: 24 Mar 2023 16:45

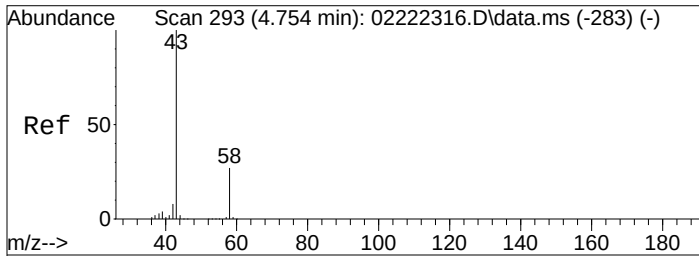
Tgt Ion: 41 Resp: 49808
Ion Ratio Lower Upper
41 100
40 52.3 34.4 74.4



#12
Acrolein
Concen: 0.06 ng
RT: 4.66 min Scan# 276
Delta R.T. 0.012 min
Lab File: 03242318.D
Acq: 24 Mar 2023 16:45

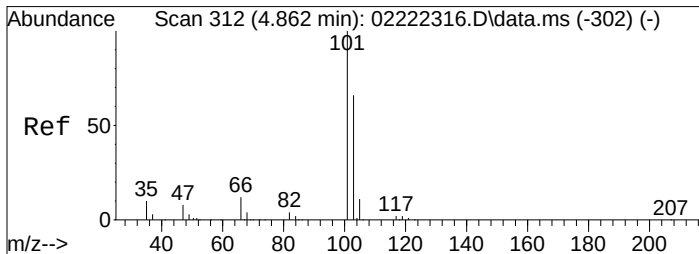
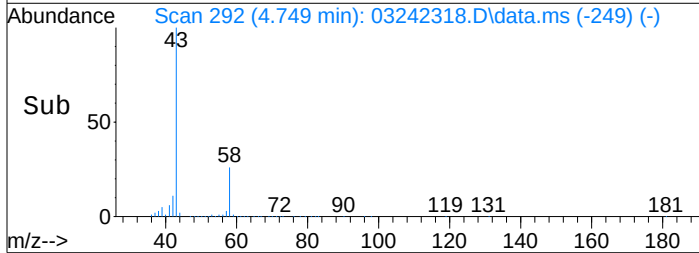
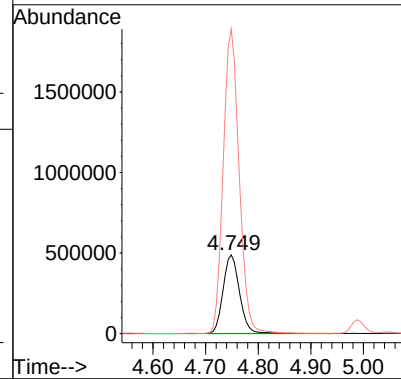
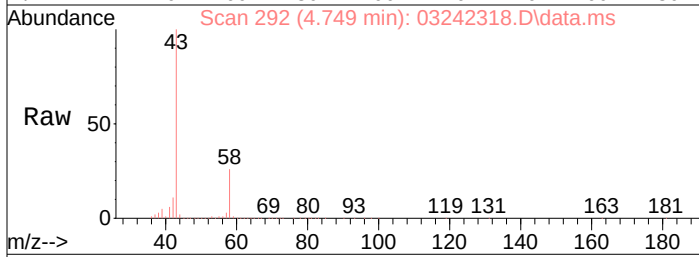
Tgt Ion: 56 Resp: 909
Ion Ratio Lower Upper
56 100
55 66.7 50.9 90.9





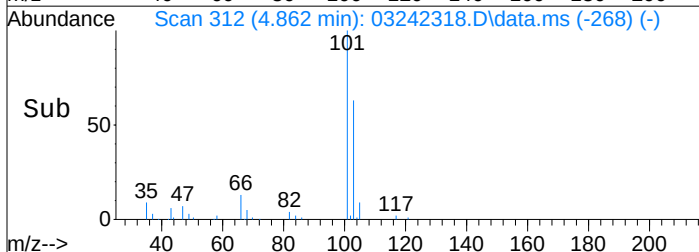
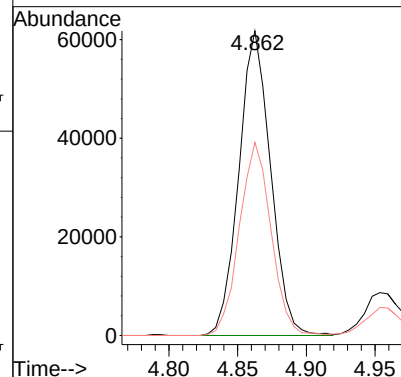
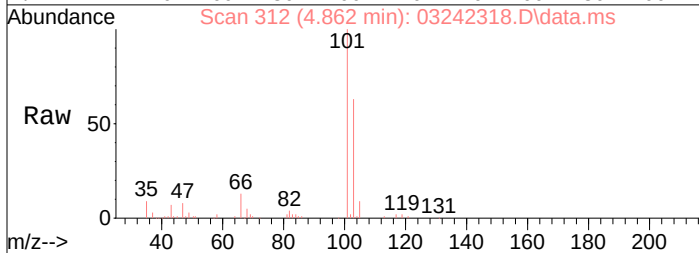
#13
Acetone
Concen: 71.28 ng
RT: 4.75 min Scan# 292
Delta R.T. -0.006 min
Lab File: 03242318.D
Acq: 24 Mar 2023 16:45

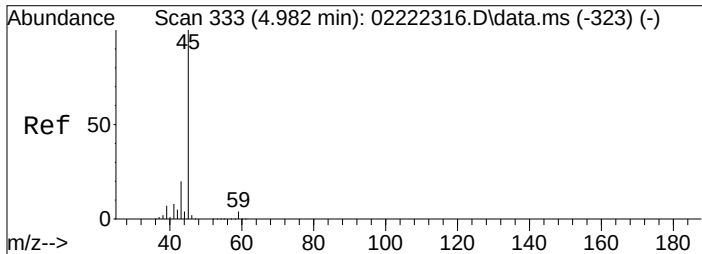
Tgt Ion: 58 Resp: 1060111
Ion Ratio Lower Upper
58 100
43 375.2 337.8 397.8



#14
Trichlorofluoromethane
Concen: 2.45 ng
RT: 4.86 min Scan# 312
Delta R.T. 0.000 min
Lab File: 03242318.D
Acq: 24 Mar 2023 16:45

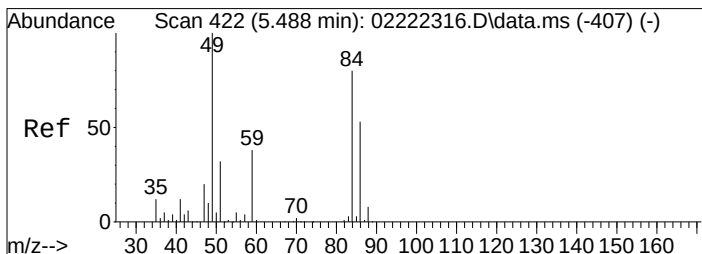
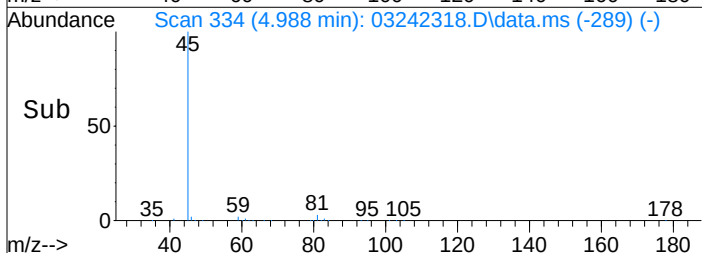
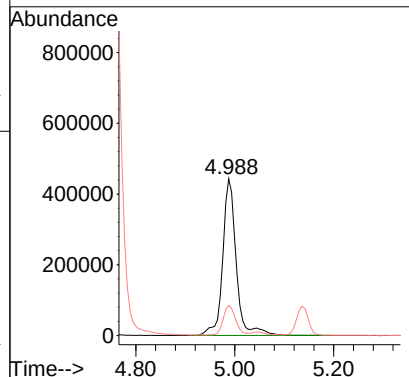
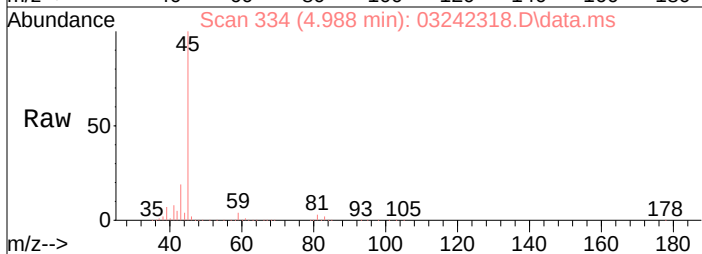
Tgt Ion: 101 Resp: 99299
Ion Ratio Lower Upper
101 100
103 63.3 45.2 85.2





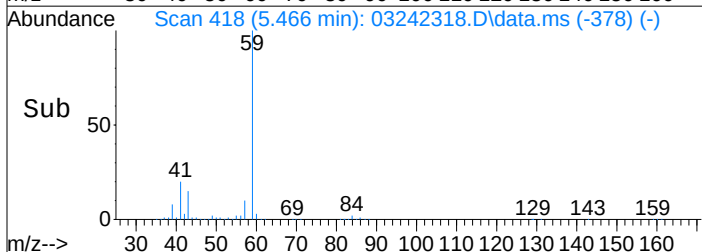
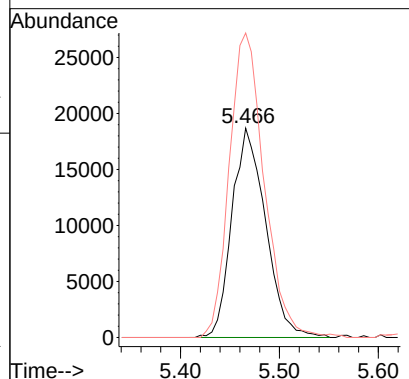
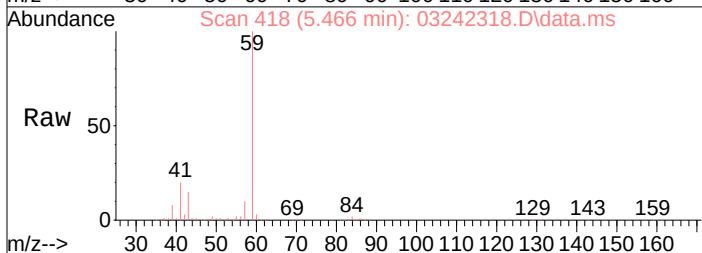
#15
 2-Propanol (Isopropanol)
 Concen: 14.03 ng
 RT: 4.99 min Scan# 334
 Delta R.T. 0.006 min
 Lab File: 03242318.D
 Acq: 24 Mar 2023 16:45

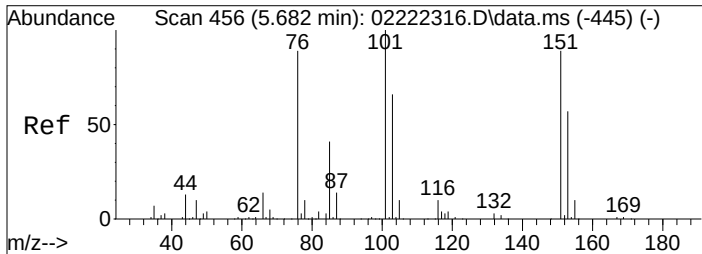
Tgt Ion: 45 Resp: 842581
 Ion Ratio Lower Upper
 45 100
 43 19.3 0.0 39.7



#19
 Methylene Chloride
 Concen: 2.03 ng
 RT: 5.47 min Scan# 418
 Delta R.T. -0.023 min
 Lab File: 03242318.D
 Acq: 24 Mar 2023 16:45

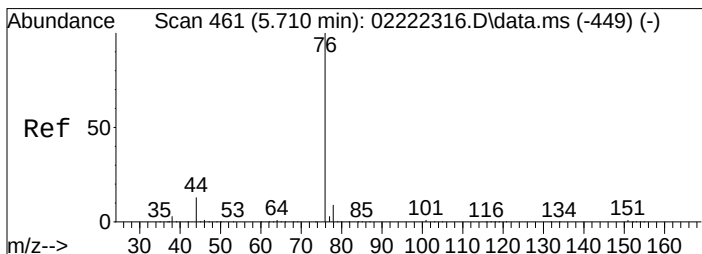
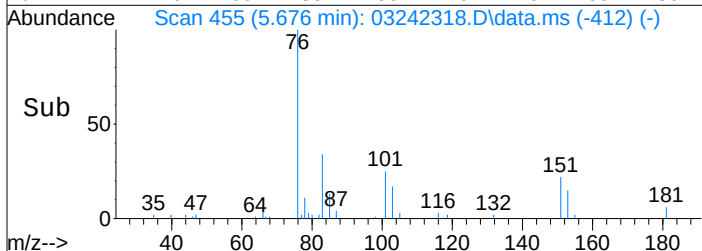
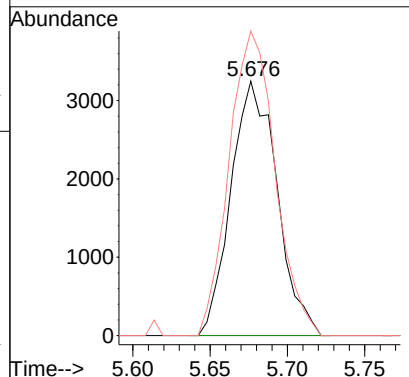
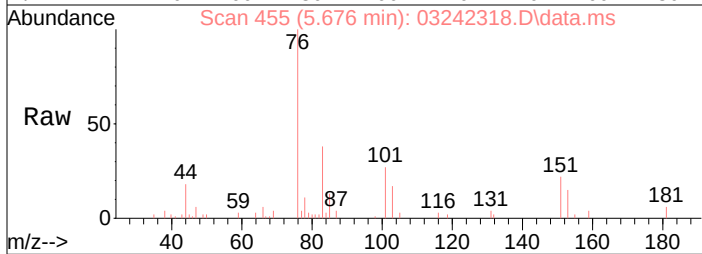
Tgt Ion: 84 Resp: 44266
 Ion Ratio Lower Upper
 84 100
 49 150.6 101.3 151.3





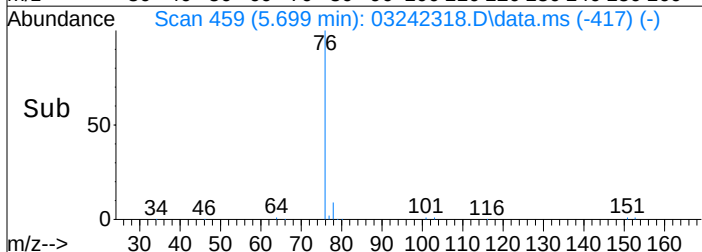
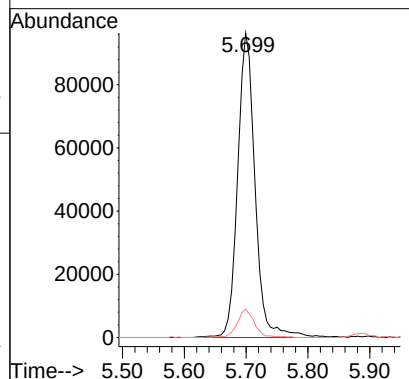
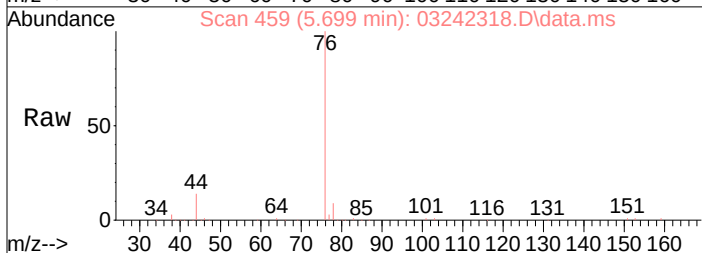
#21
 Trichlorotrifluoroethane
 Concen: 0.32 ng
 RT: 5.68 min Scan# 455
 Delta R.T. -0.006 min
 Lab File: 03242318.D
 Acq: 24 Mar 2023 16:45

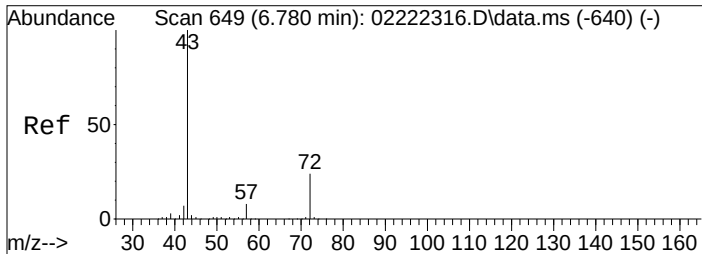
Tgt Ion	Ratio	Resp	Lower	Upper
151	100	6751		
101	119.8	96.3	136.3	



#22
 Carbon Disulfide
 Concen: 2.19 ng
 RT: 5.70 min Scan# 459
 Delta R.T. -0.011 min
 Lab File: 03242318.D
 Acq: 24 Mar 2023 16:45

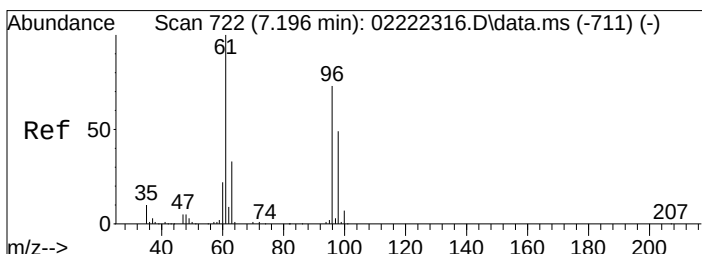
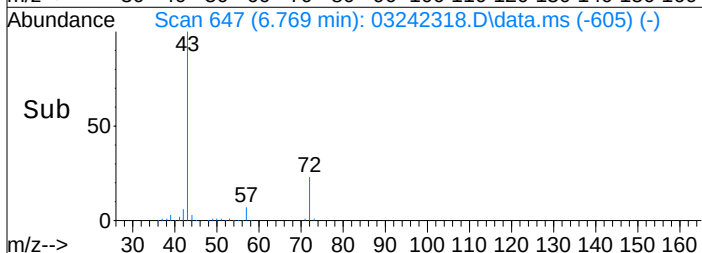
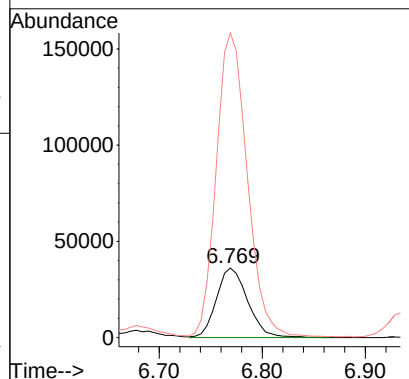
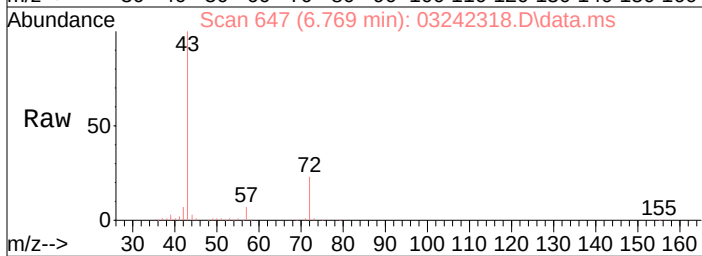
Tgt Ion	Ratio	Resp	Lower	Upper
76	100	188842		
78	9.4	0.0	29.3	





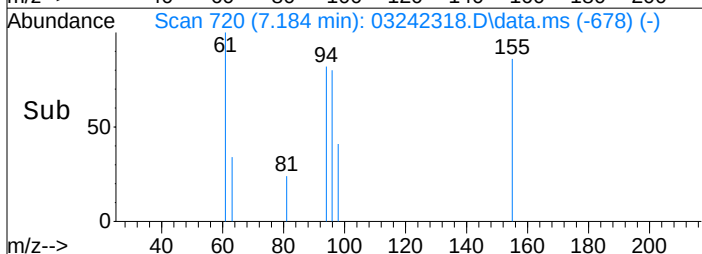
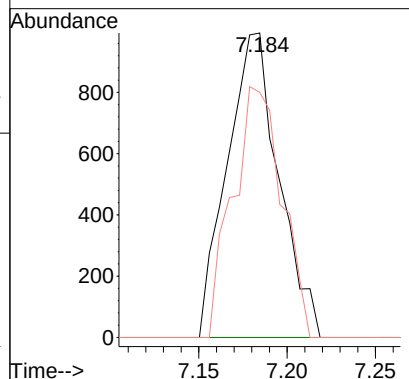
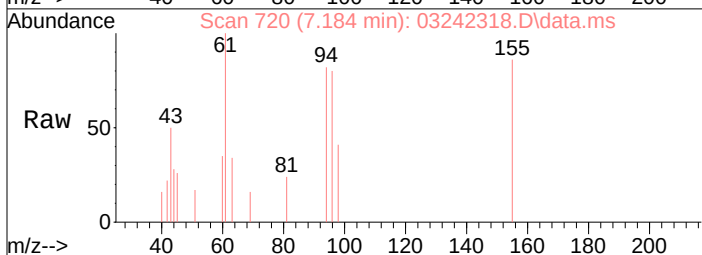
#27
2-Butanone (MEK)
Concen: 5.76 ng
RT: 6.77 min Scan# 647
Delta R.T. -0.011 min
Lab File: 03242318.D
Acq: 24 Mar 2023 16:45

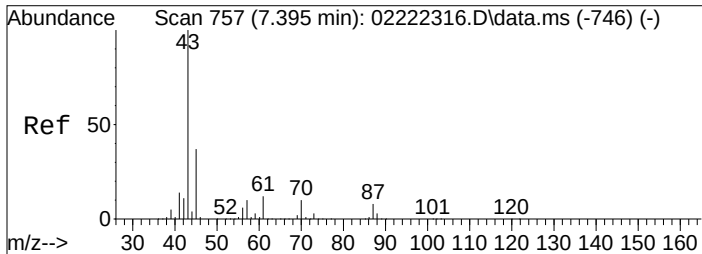
Tgt Ion: 72 Resp: 76039
Ion Ratio Lower Upper
72 100
43 432.0 400.5 440.5



#28
cis-1,2-Dichloroethene
Concen: 0.06 ng
RT: 7.18 min Scan# 720
Delta R.T. -0.011 min
Lab File: 03242318.D
Acq: 24 Mar 2023 16:45

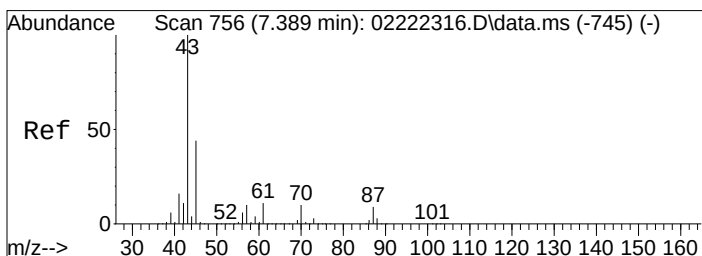
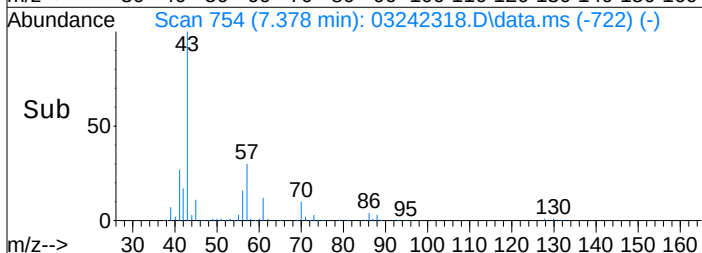
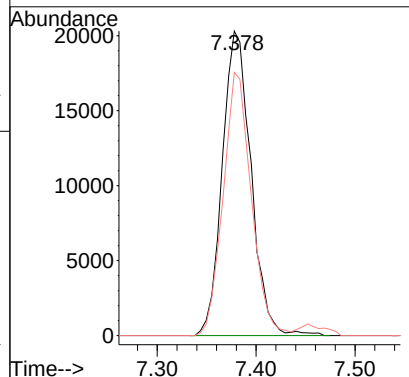
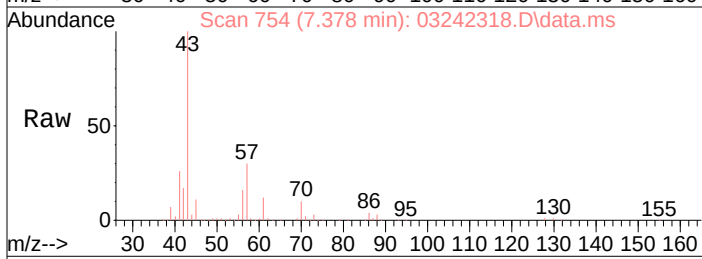
Tgt Ion: 61 Resp: 2025
Ion Ratio Lower Upper
61 100
96 78.3 54.5 94.5





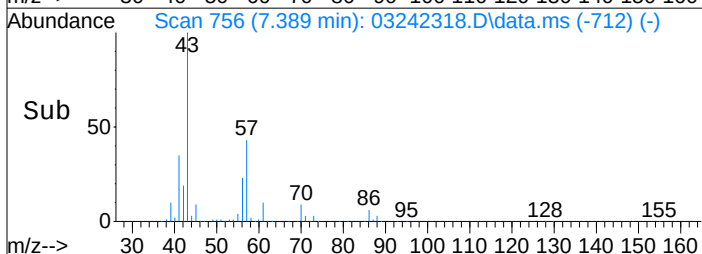
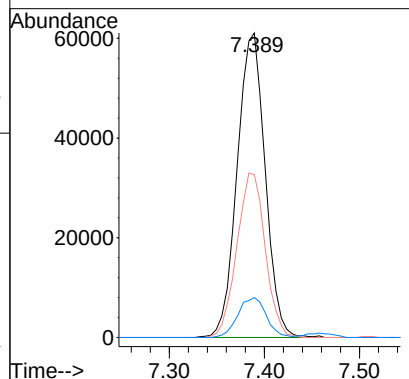
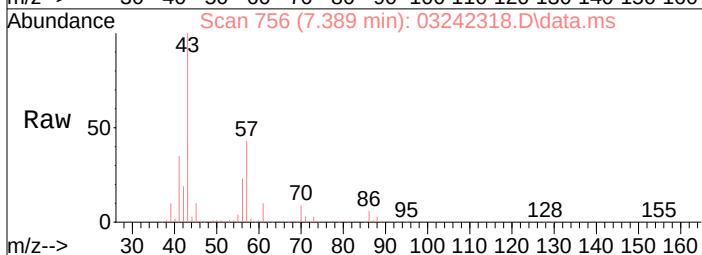
#30
Ethyl Acetate
Concen: 4.72 ng
RT: 7.38 min Scan# 754
Delta R.T. -0.017 min
Lab File: 03242318.D
Acq: 24 Mar 2023 16:45

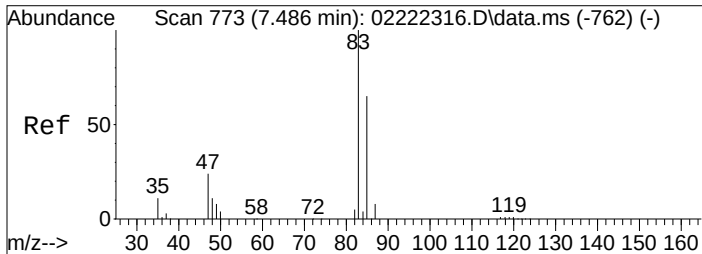
Tgt Ion: 61 Resp: 40963
Ion Ratio Lower Upper
61 100
70 84.7 65.6 105.6



#31
n-Hexane
Concen: 3.74 ng
RT: 7.39 min Scan# 756
Delta R.T. 0.000 min
Lab File: 03242318.D
Acq: 24 Mar 2023 16:45

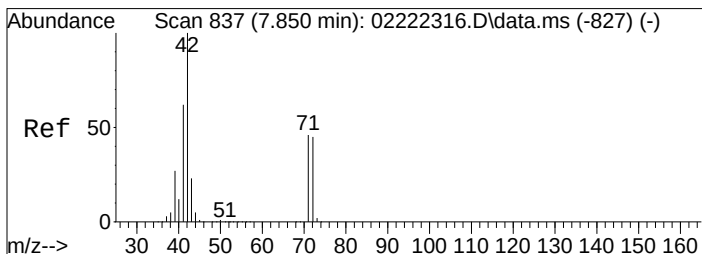
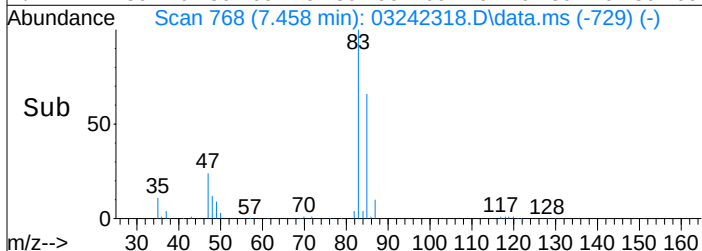
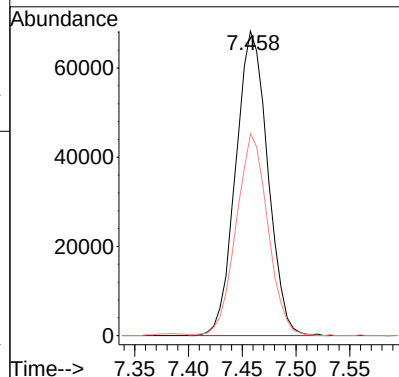
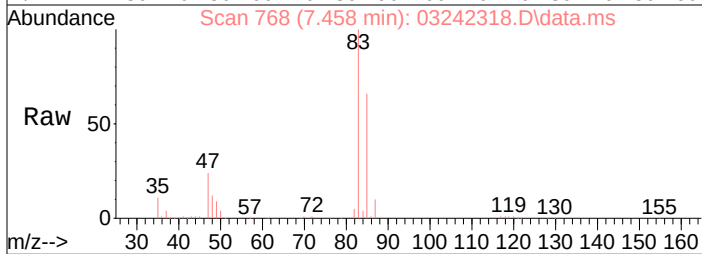
Tgt Ion: 57 Resp: 124841
Ion Ratio Lower Upper
57 100
56 54.6 44.0 66.0
86 13.3 11.5 17.3





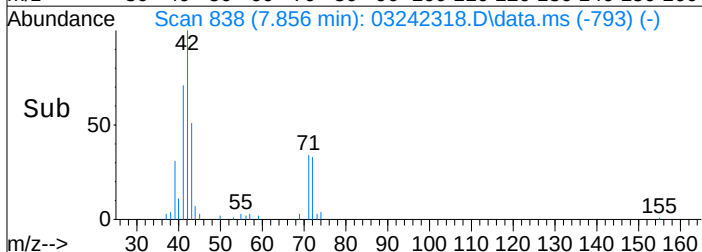
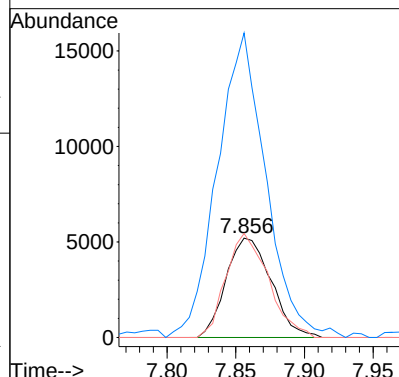
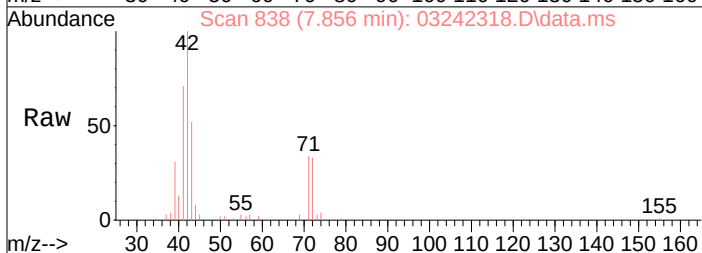
#32
Chloroform
Concen: 3.58 ng
RT: 7.46 min Scan# 768
Delta R.T. -0.028 min
Lab File: 03242318.D
Acq: 24 Mar 2023 16:45

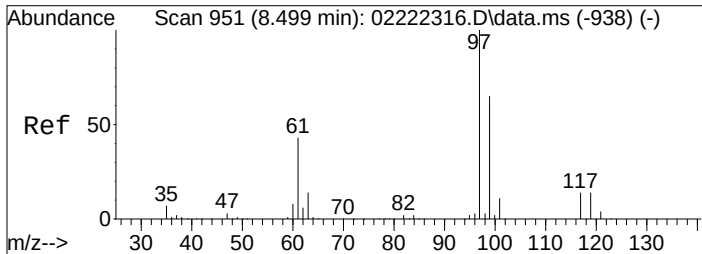
Tgt Ion	83	Resp	141545
Ion Ratio	100	Lower	Upper
85	65.7	45.0	85.0



#34
Tetrahydrofuran (THF)
Concen: 0.88 ng
RT: 7.86 min Scan# 838
Delta R.T. 0.006 min
Lab File: 03242318.D
Acq: 24 Mar 2023 16:45

Tgt Ion	72	Resp	11894
Ion Ratio	100	Lower	Upper
71	98.9	79.8	119.8
42	329.7	199.0	239.0#

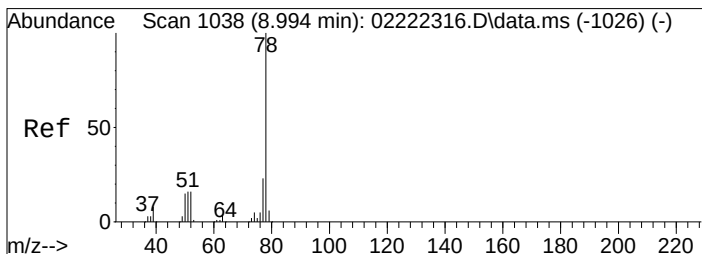
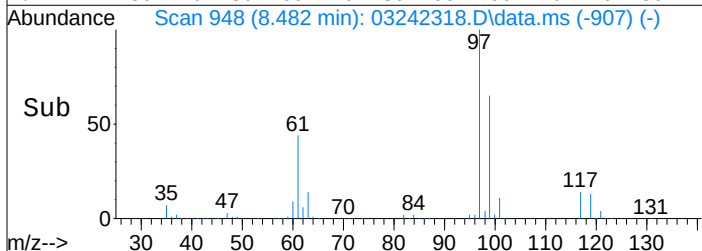
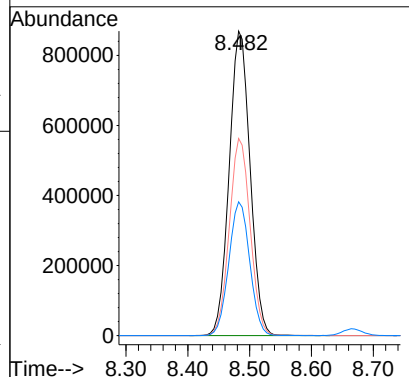
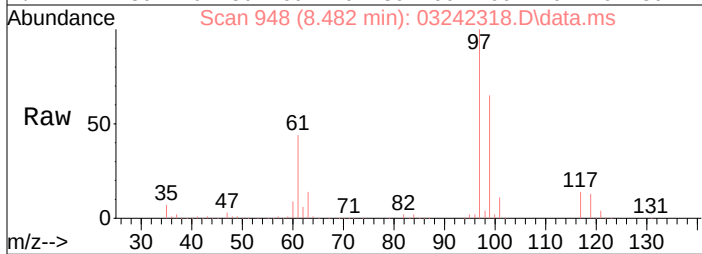




#38
 1,1,1-Trichloroethane
 Concen: 57.32 ng
 RT: 8.48 min Scan# 948
 Delta R.T. -0.017 min
 Lab File: 03242318.D
 Acq: 24 Mar 2023 16:45

Tgt Ion: 97 Resp: 2040339

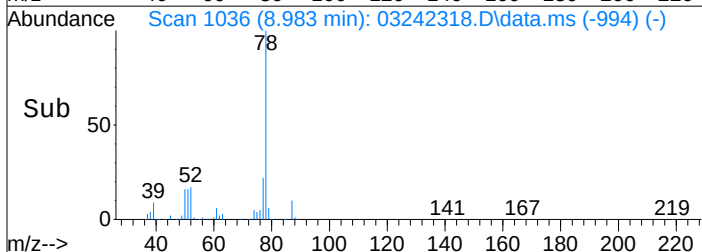
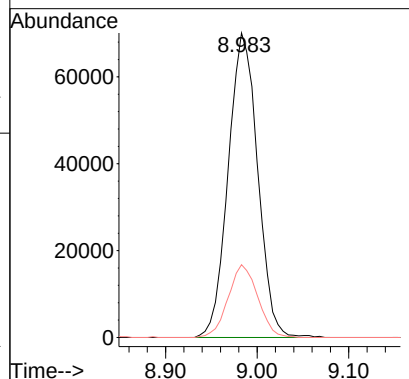
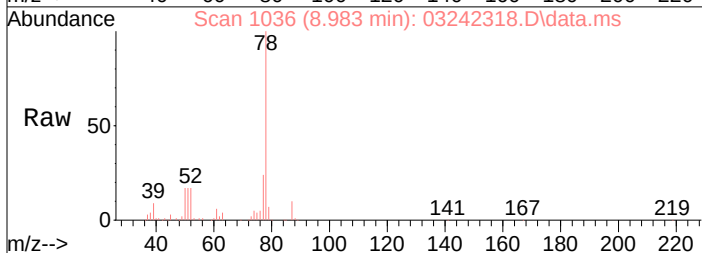
Ion	Ratio	Lower	Upper
97	100		
99	64.6	44.9	84.9
61	44.0	23.5	63.5

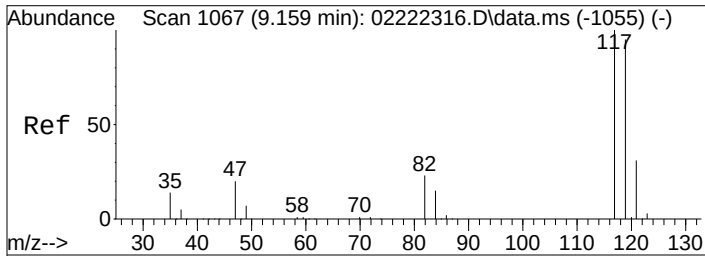


#41
 Benzene
 Concen: 1.87 ng
 RT: 8.98 min Scan# 1036
 Delta R.T. -0.011 min
 Lab File: 03242318.D
 Acq: 24 Mar 2023 16:45

Tgt Ion: 78 Resp: 156772

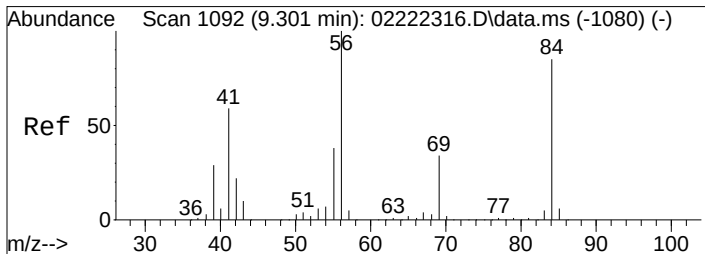
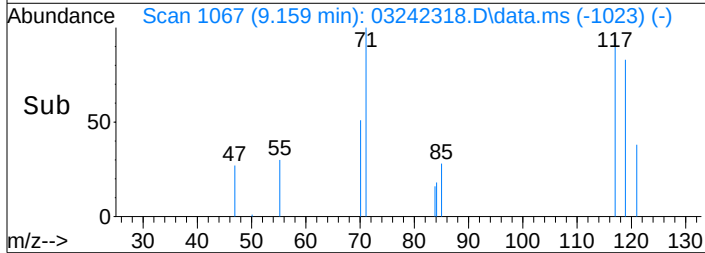
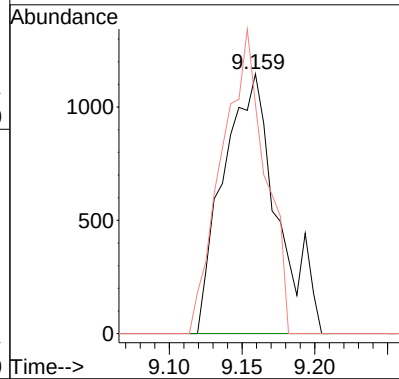
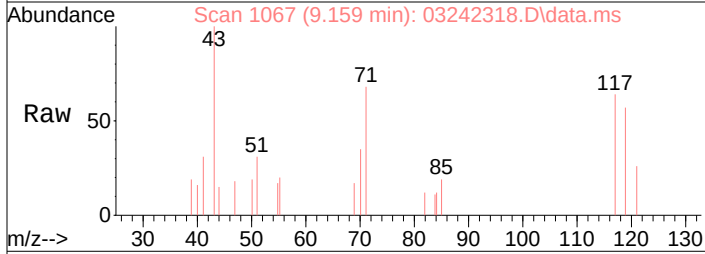
Ion	Ratio	Lower	Upper
78	100		
77	24.0	3.7	43.7





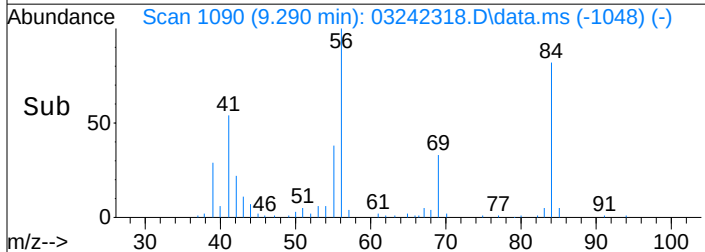
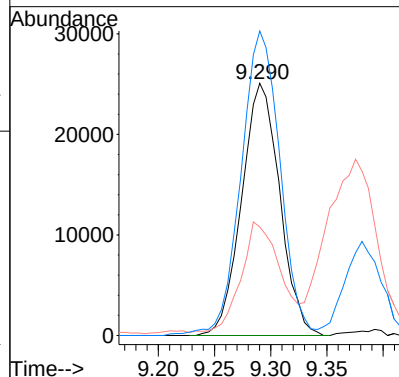
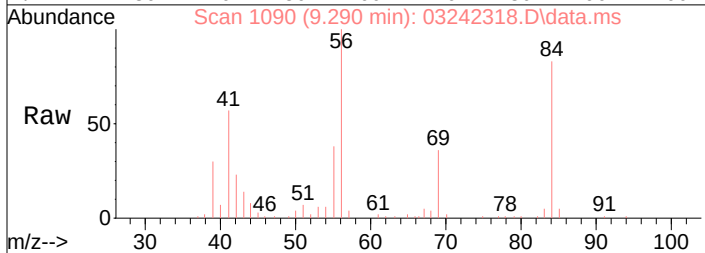
#42
Carbon Tetrachloride
Concen: 0.09 ng
RT: 9.16 min Scan# 1067
Delta R.T. 0.000 min
Lab File: 03242318.D
Acq: 24 Mar 2023 16:45

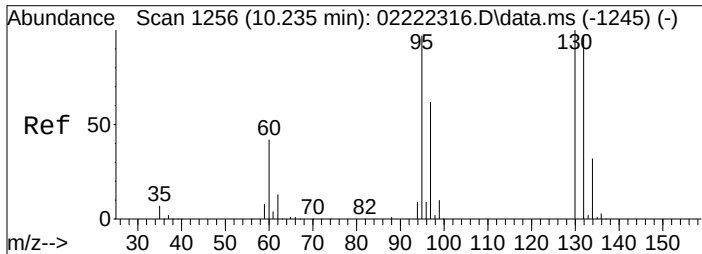
Tgt Ion: 117 Resp: 2946
Ion Ratio Lower Upper
117 100
119 94.8 75.7 115.7



#43
Cyclohexane
Concen: 1.93 ng
RT: 9.29 min Scan# 1090
Delta R.T. -0.011 min
Lab File: 03242318.D
Acq: 24 Mar 2023 16:45

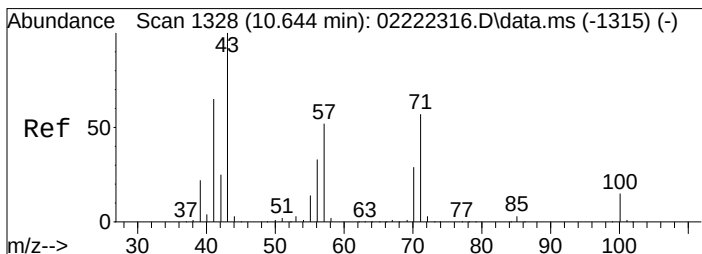
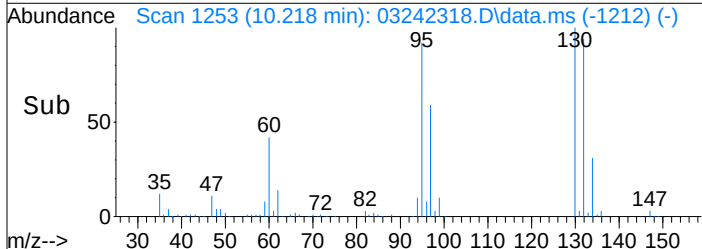
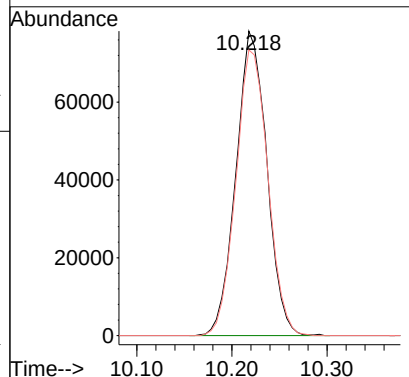
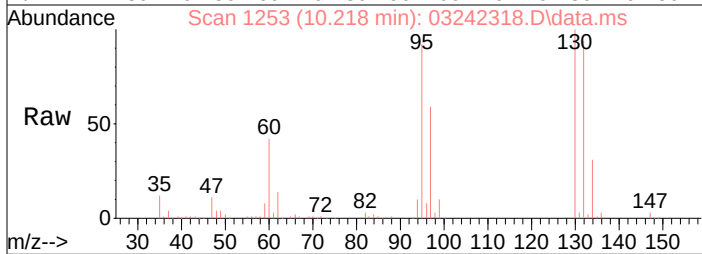
Tgt Ion: 84 Resp: 59272
Ion Ratio Lower Upper
84 100
69 44.9 20.0 60.0
56 123.5 98.5 138.5





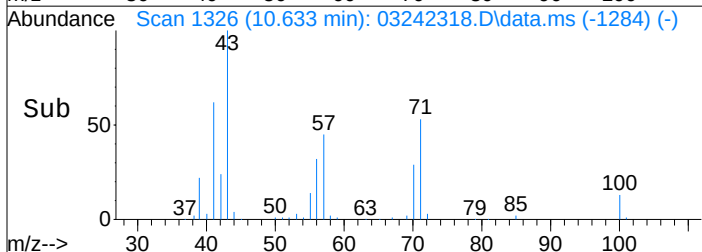
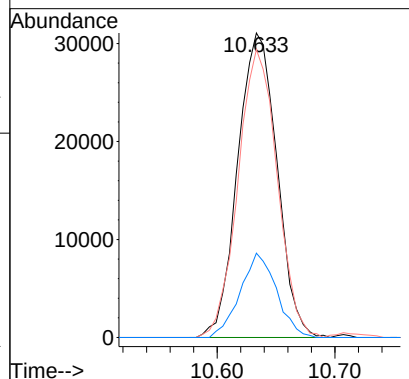
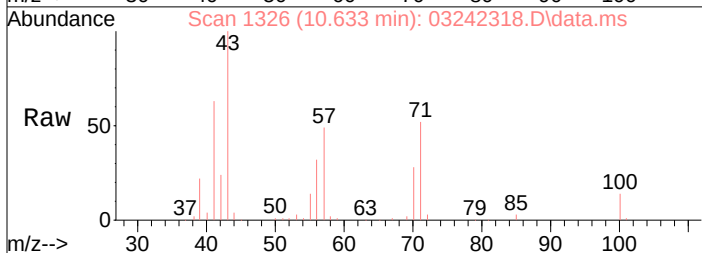
#47
 Trichloroethene
 Concen: 7.20 ng
 RT: 10.22 min Scan# 1253
 Delta R.T. -0.017 min
 Lab File: 03242318.D
 Acq: 24 Mar 2023 16:45

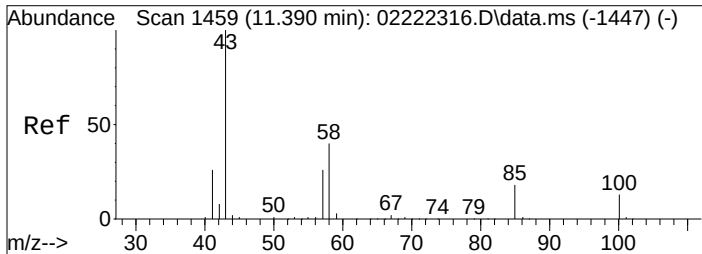
Tgt Ion:	130	Resp:	176524
Ion Ratio		Lower	Upper
130	100		
132	97.2	76.3	116.3



#51
 n-Heptane
 Concen: 3.56 ng
 RT: 10.63 min Scan# 1326
 Delta R.T. -0.011 min
 Lab File: 03242318.D
 Acq: 24 Mar 2023 16:45

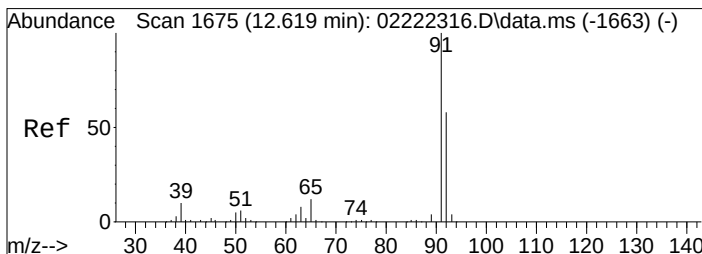
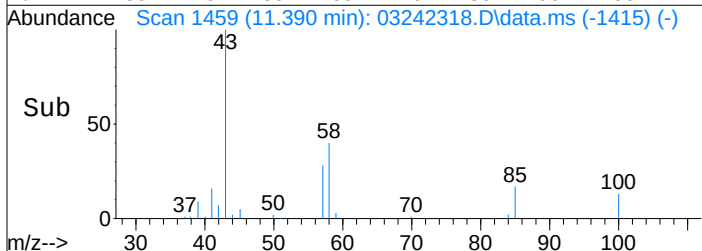
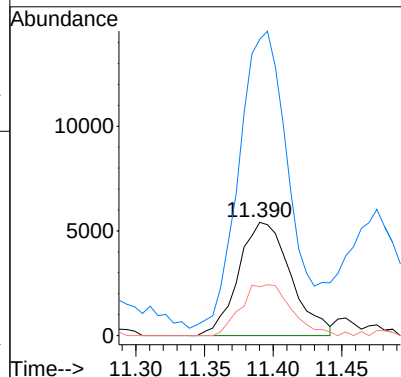
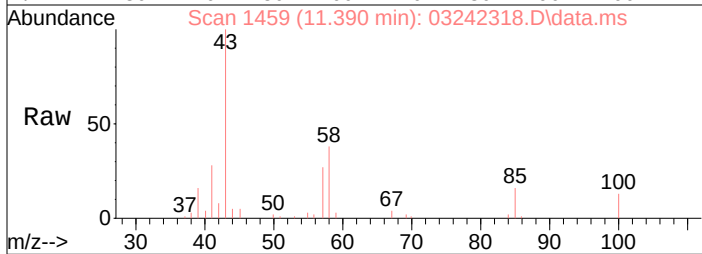
Tgt Ion:	71	Resp:	72040
Ion Ratio		Lower	Upper
71	100		
57	94.1	71.7	111.7
100	25.6	5.8	45.8





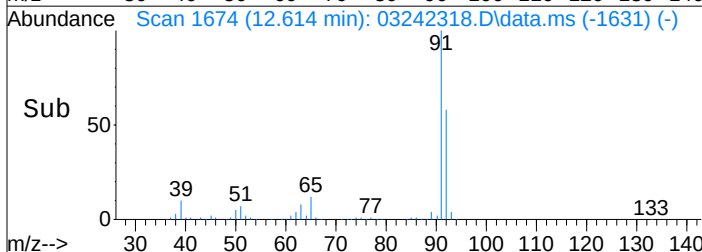
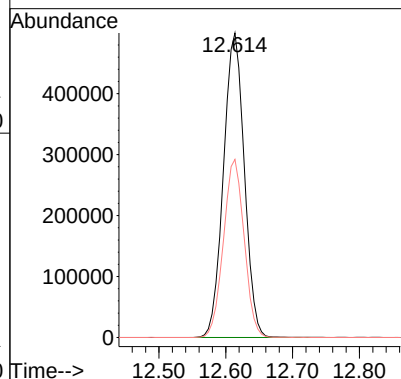
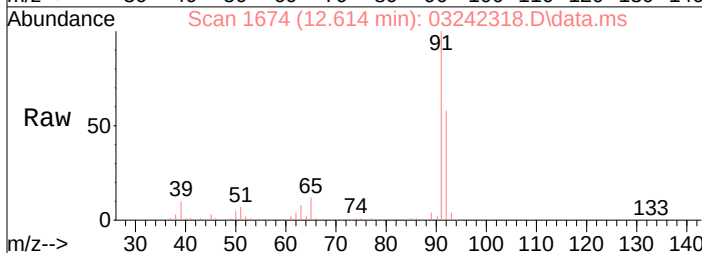
#53
 4-Methyl-2-pentanone
 Concen: 0.80 ng
 RT: 11.39 min Scan# 1459
 Delta R.T. 0.000 min
 Lab File: 03242318.D
 Acq: 24 Mar 2023 16:45

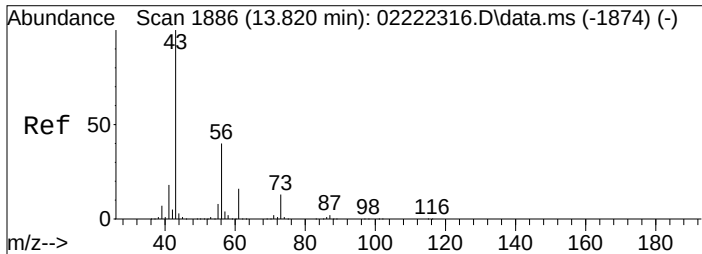
Tgt Ion:	58	Resp:	14340
Ion Ratio		Lower	Upper
58	100		
85	43.2	38.6	58.0
43	256.8	202.2	303.2



#58
 Toluene
 Concen: 10.66 ng
 RT: 12.61 min Scan# 1674
 Delta R.T. -0.006 min
 Lab File: 03242318.D
 Acq: 24 Mar 2023 16:45

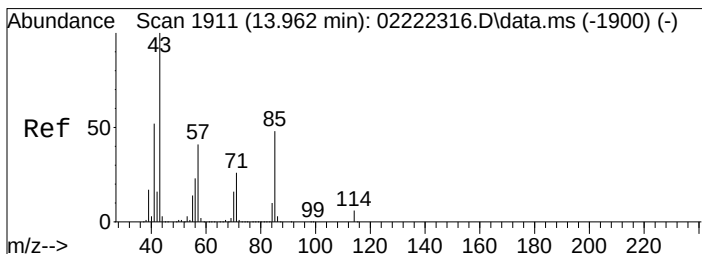
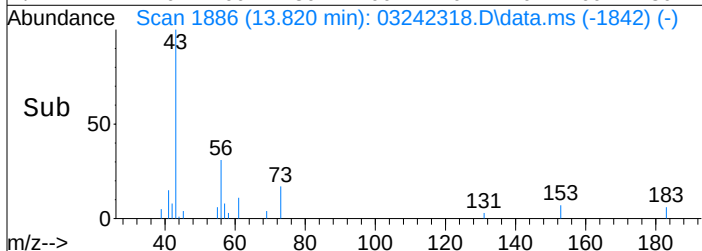
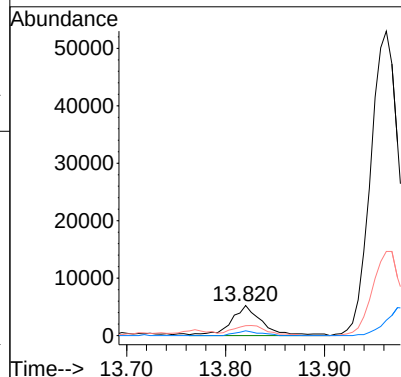
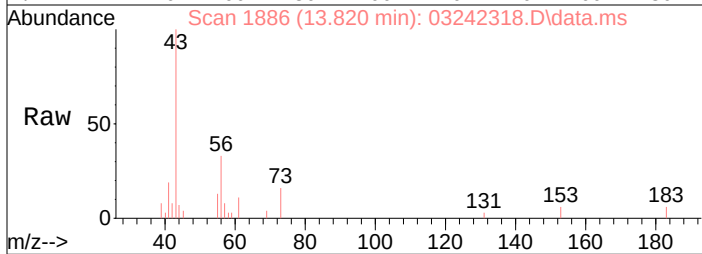
Tgt Ion:	91	Resp:	1082465
Ion Ratio		Lower	Upper
91	100		
92	58.1	38.0	78.0





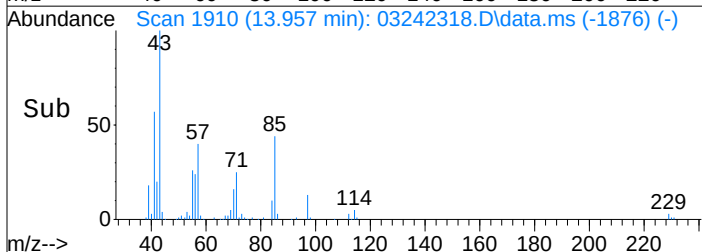
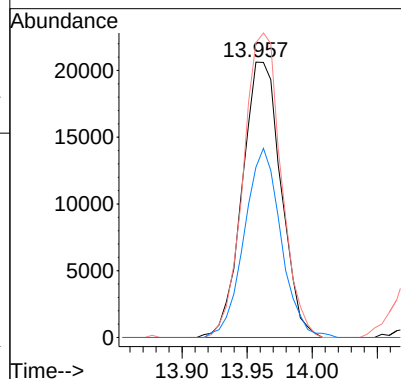
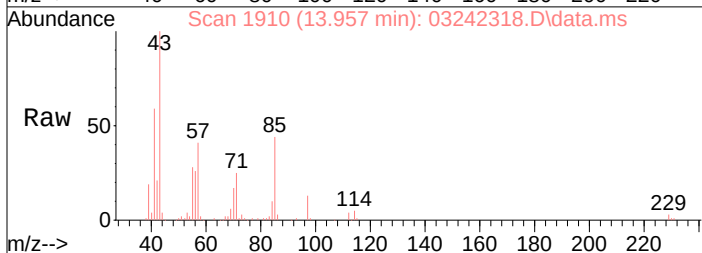
#62
 n-Butyl Acetate
 Concen: 0.20 ng
 RT: 13.82 min Scan# 1886
 Delta R.T. 0.000 min
 Lab File: 03242318.D
 Acq: 24 Mar 2023 16:45

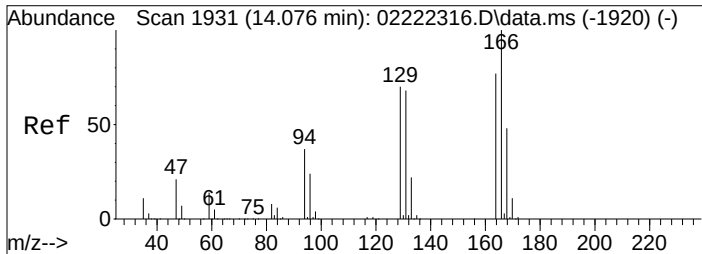
Tgt Ion:	43	Resp:	11303
Ion Ratio		Lower	Upper
43	100		
56	37.9	20.0	60.0
73	12.5	0.0	33.2



#63
 n-Octane
 Concen: 2.14 ng
 RT: 13.96 min Scan# 1910
 Delta R.T. -0.006 min
 Lab File: 03242318.D
 Acq: 24 Mar 2023 16:45

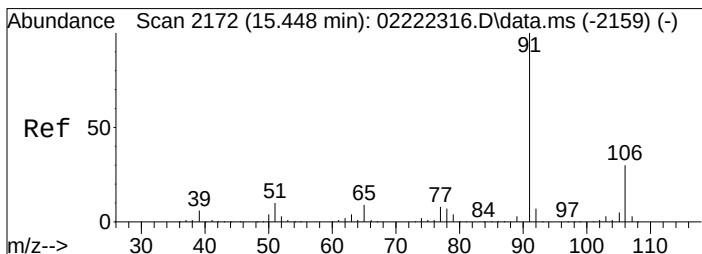
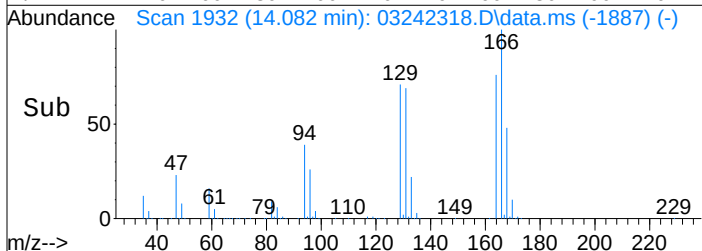
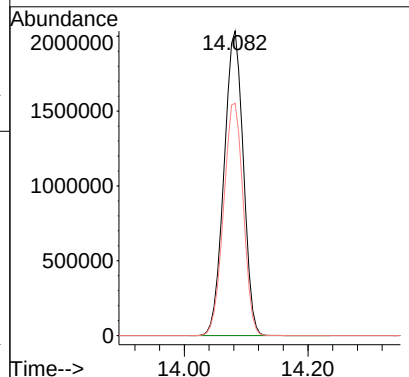
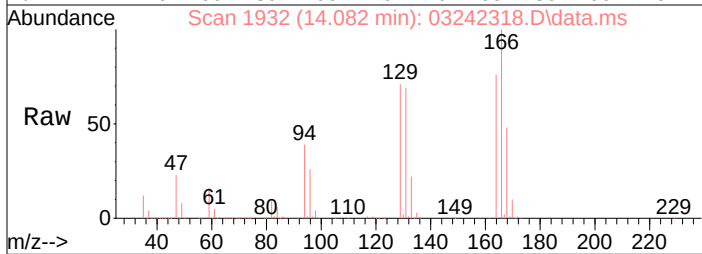
Tgt Ion:	57	Resp:	42703
Ion Ratio		Lower	Upper
57	100		
85	107.8	94.1	141.1
71	65.1	52.6	79.0





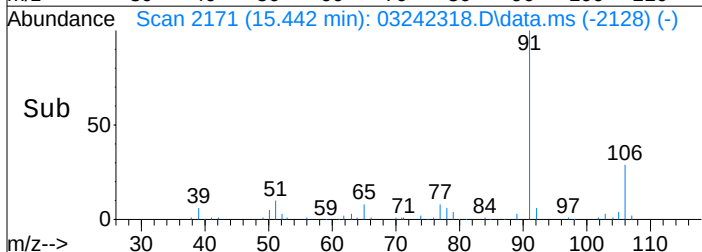
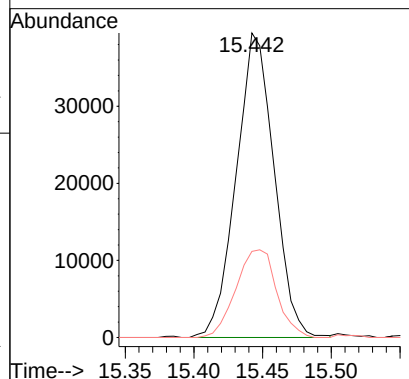
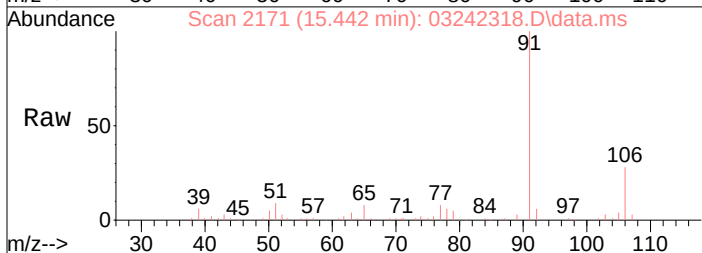
#64
Tetrachloroethene
Concen: 142.54 ng
RT: 14.08 min Scan# 1932
Delta R.T. 0.006 min
Lab File: 03242318.D
Acq: 24 Mar 2023 16:45

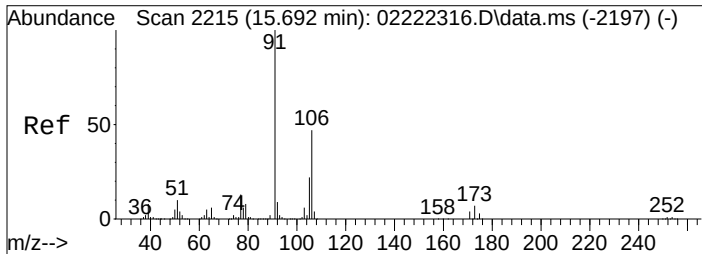
Tgt Ion: 166 Resp: 4403195
Ion Ratio Lower Upper
166 100
164 77.8 57.3 97.3



#66
Ethylbenzene
Concen: 0.62 ng
RT: 15.44 min Scan# 2171
Delta R.T. -0.006 min
Lab File: 03242318.D
Acq: 24 Mar 2023 16:45

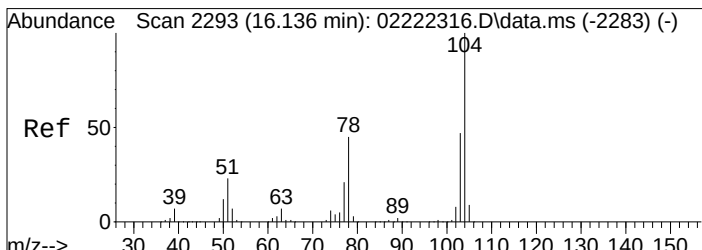
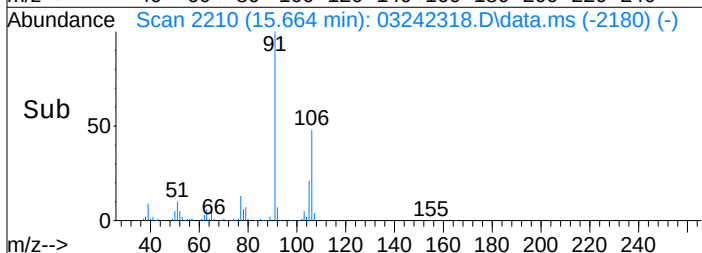
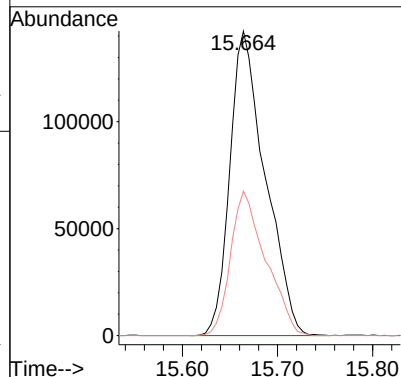
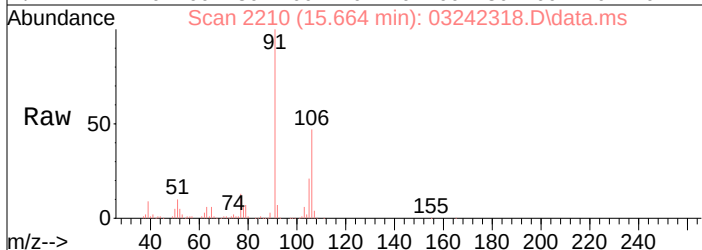
Tgt Ion: 91 Resp: 75694
Ion Ratio Lower Upper
91 100
106 30.9 10.4 50.4





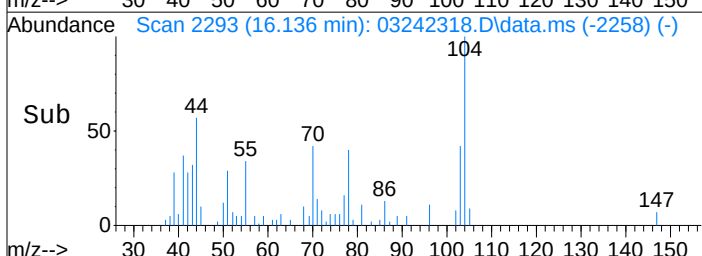
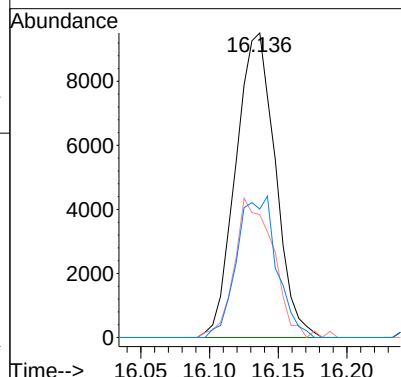
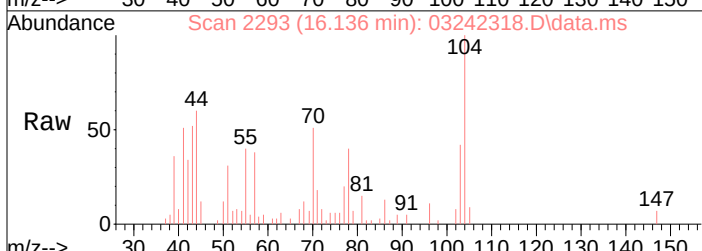
#67
m- & p-Xylenes
Concen: 3.78 ng
RT: 15.66 min Scan# 2210
Delta R.T. -0.028 min
Lab File: 03242318.D
Acq: 24 Mar 2023 16:45

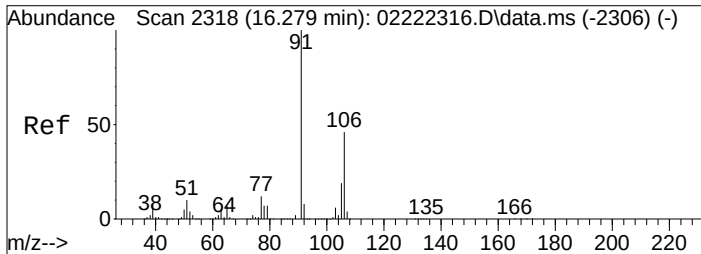
Tgt Ion	Ratio	Lower	Upper
91	100		
106	47.2	26.2	66.2



#69
Styrene
Concen: 0.28 ng
RT: 16.14 min Scan# 2293
Delta R.T. 0.000 min
Lab File: 03242318.D
Acq: 24 Mar 2023 16:45

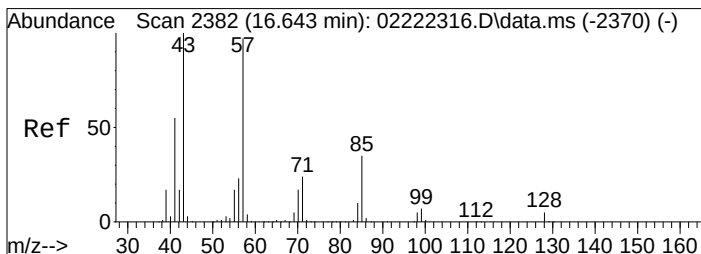
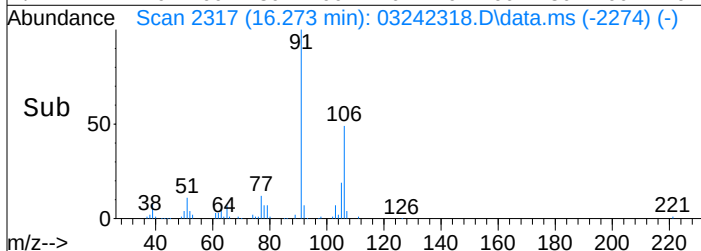
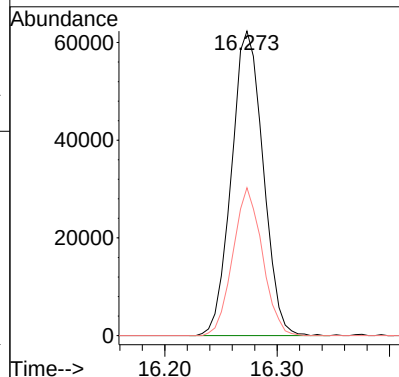
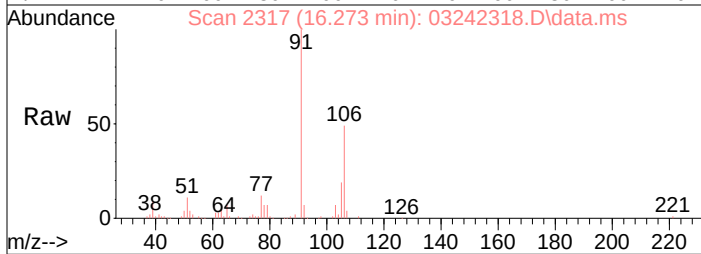
Tgt Ion	Ratio	Lower	Upper
104	100		
78	45.1	24.7	64.7
103	46.7	27.8	67.8





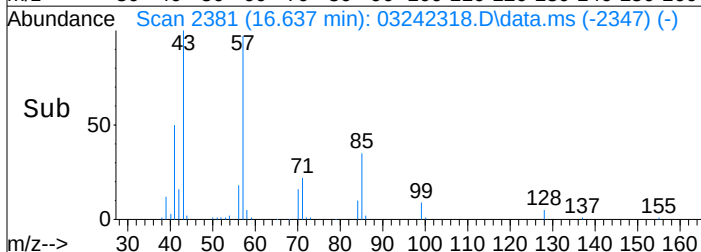
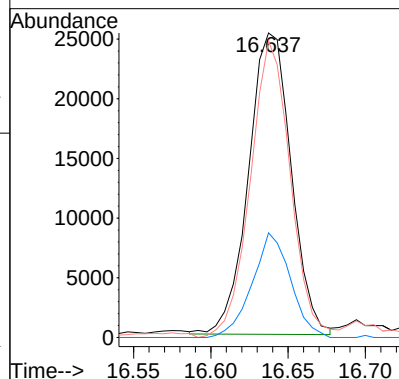
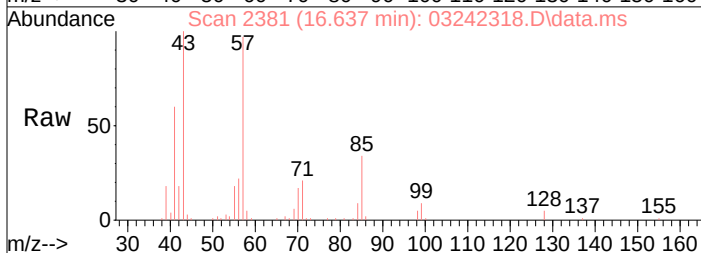
#70
o-Xylene
Concen: 1.31 ng
RT: 16.27 min Scan# 2317
Delta R.T. -0.006 min
Lab File: 03242318.D
Acq: 24 Mar 2023 16:45

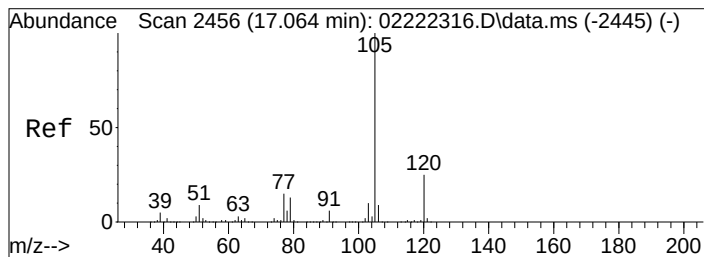
Tgt Ion: 91 Resp: 121999
Ion Ratio Lower Upper
91 100
106 45.3 25.4 65.4



#71
n-Nonane
Concen: 1.08 ng
RT: 16.64 min Scan# 2381
Delta R.T. -0.006 min
Lab File: 03242318.D
Acq: 24 Mar 2023 16:45

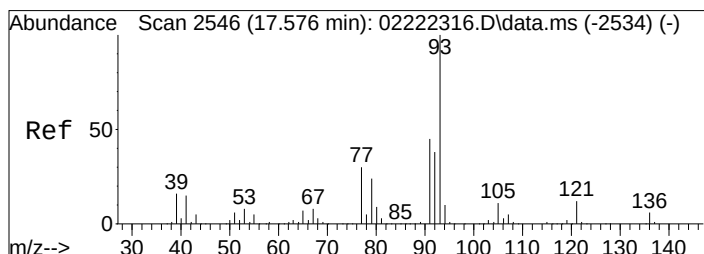
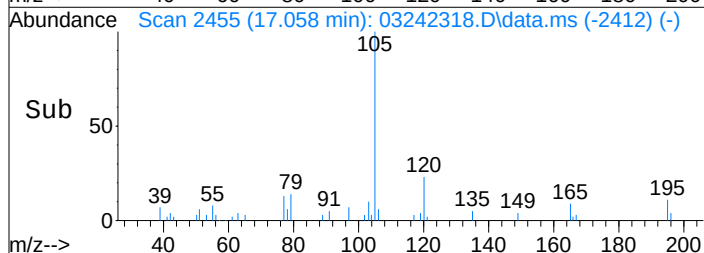
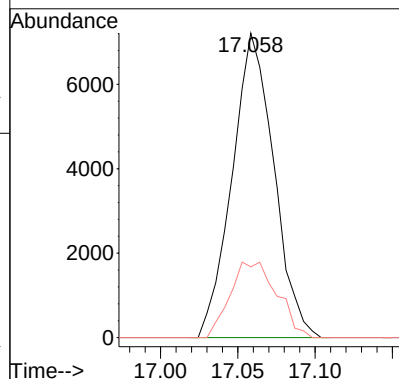
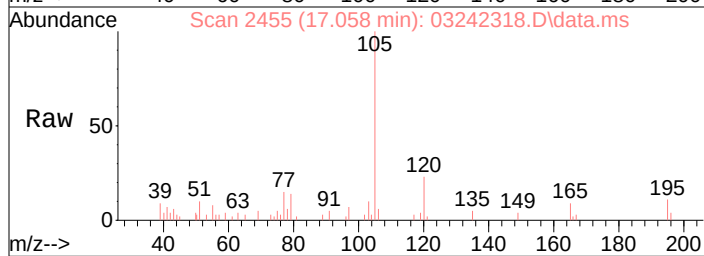
Tgt Ion: 43 Resp: 48581
Ion Ratio Lower Upper
43 100
57 92.6 74.2 114.2
85 31.2 14.2 54.2





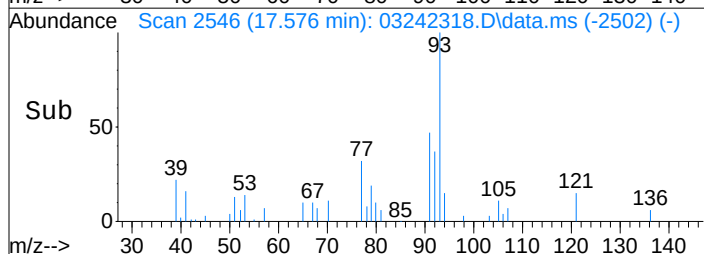
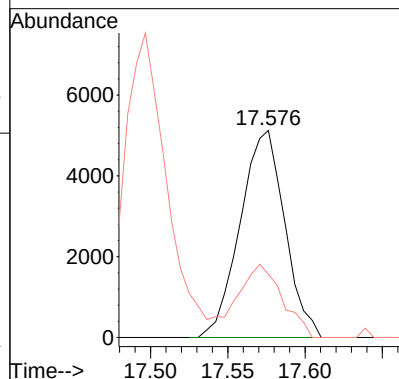
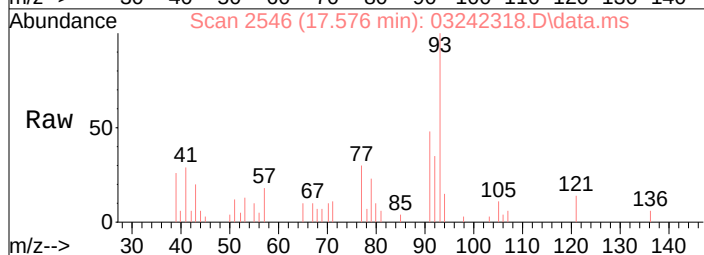
#74
Cumene
Concen: 0.12 ng
RT: 17.06 min Scan# 2455
Delta R.T. -0.006 min
Lab File: 03242318.D
Acq: 24 Mar 2023 16:45

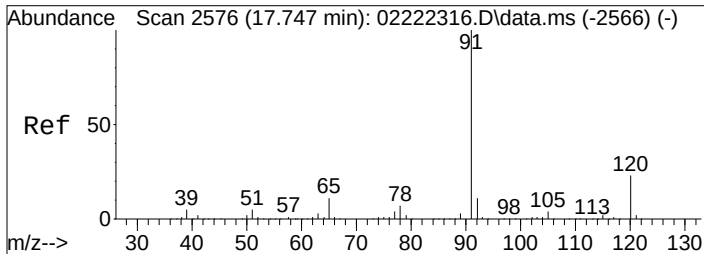
Tgt Ion: 105 Resp: 13567
Ion Ratio Lower Upper
105 100
120 27.9 5.2 45.2



#75
alpha-Pinene
Concen: 0.20 ng
RT: 17.58 min Scan# 2546
Delta R.T. 0.000 min
Lab File: 03242318.D
Acq: 24 Mar 2023 16:45

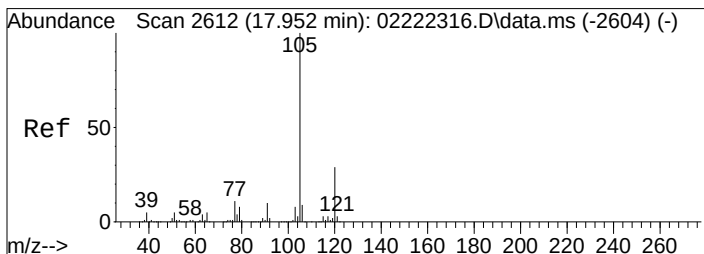
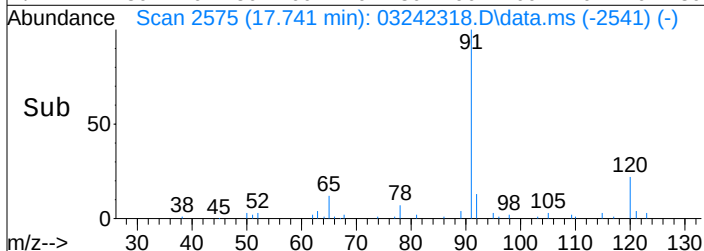
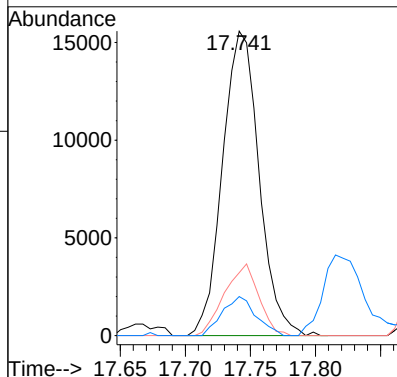
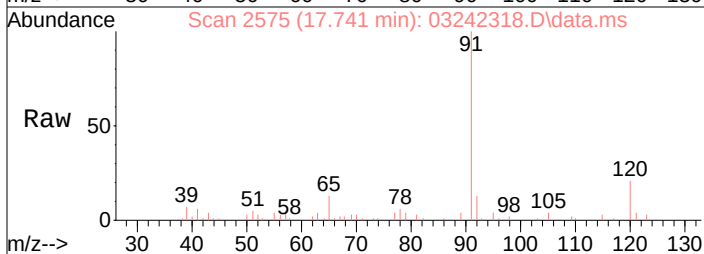
Tgt Ion: 93 Resp: 10292
Ion Ratio Lower Upper
93 100
77 33.1 11.1 51.1





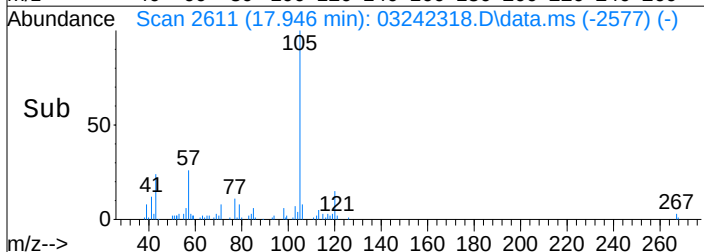
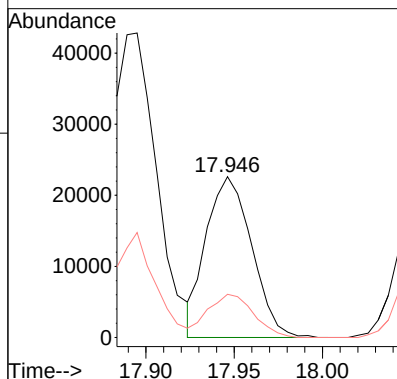
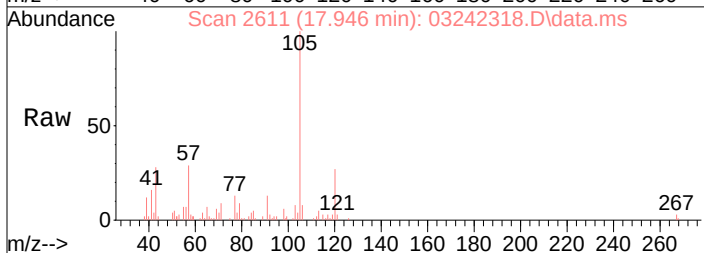
#76
n-Propylbenzene
Concen: 0.22 ng
RT: 17.74 min Scan# 2575
Delta R.T. -0.006 min
Lab File: 03242318.D
Acq: 24 Mar 2023 16:45

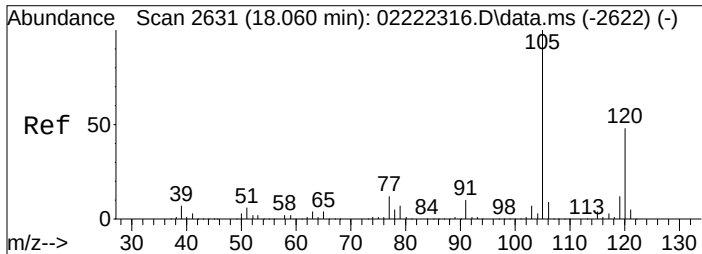
Tgt Ion:	91	Resp:	30470
Ion Ratio	Lower	Upper	
91	100		
120	22.0	2.7	42.7
65	11.8	0.0	30.7



#78
4-Ethyltoluene
Concen: 0.37 ng
RT: 17.95 min Scan# 2611
Delta R.T. -0.006 min
Lab File: 03242318.D
Acq: 24 Mar 2023 16:45

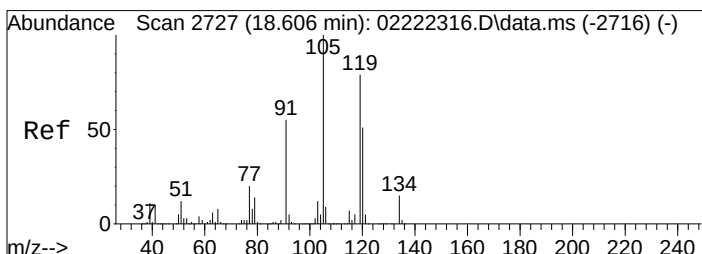
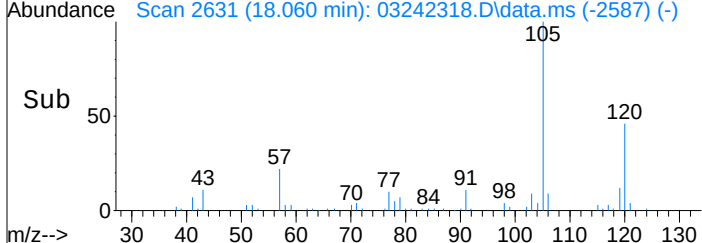
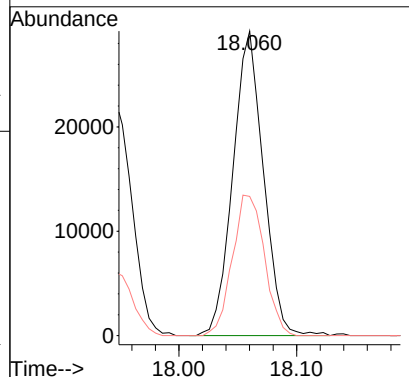
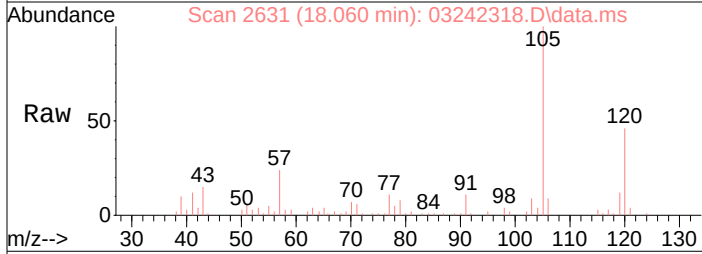
Tgt Ion:	105	Resp:	40575
Ion Ratio	Lower	Upper	
105	100		
120	27.1	9.1	49.1





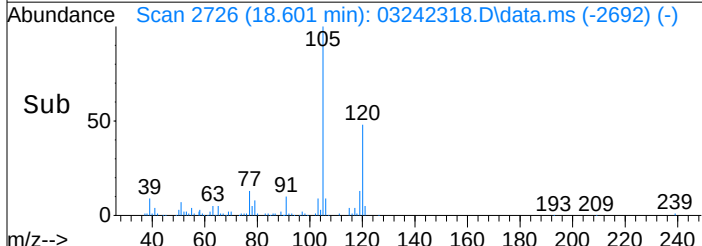
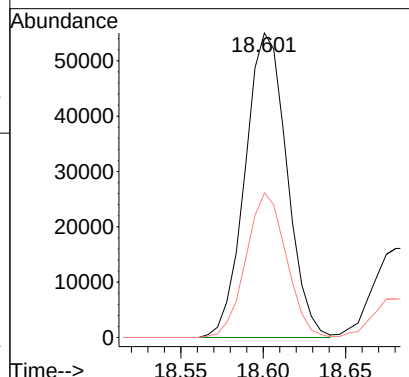
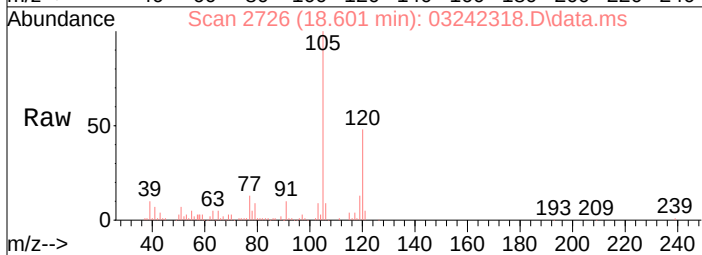
#79
 1,3,5-Trimethylbenzene
 Concen: 0.55 ng
 RT: 18.06 min Scan# 2631
 Delta R.T. 0.000 min
 Lab File: 03242318.D
 Acq: 24 Mar 2023 16:45

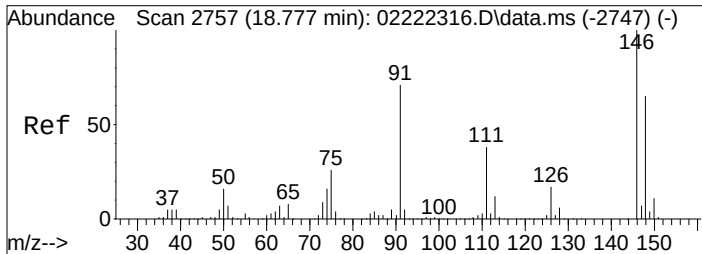
Tgt Ion:	105	Resp:	52531
Ion Ratio	Lower	Upper	
105	100		
120	48.4	28.4	68.4



#82
 1,2,4-Trimethylbenzene
 Concen: 1.02 ng
 RT: 18.60 min Scan# 2726
 Delta R.T. -0.006 min
 Lab File: 03242318.D
 Acq: 24 Mar 2023 16:45

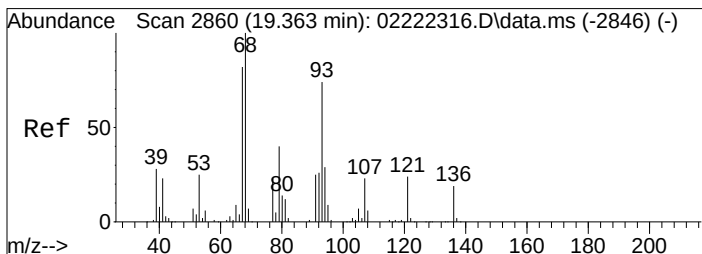
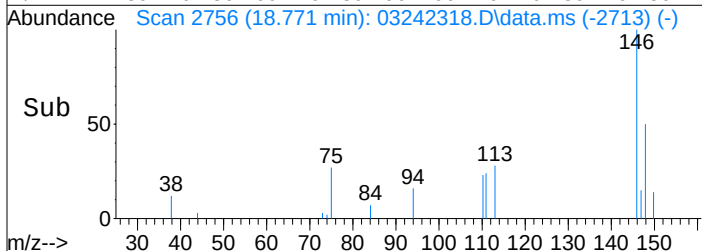
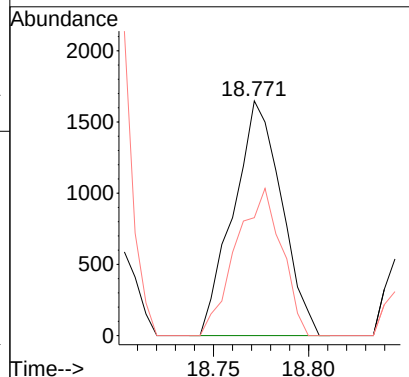
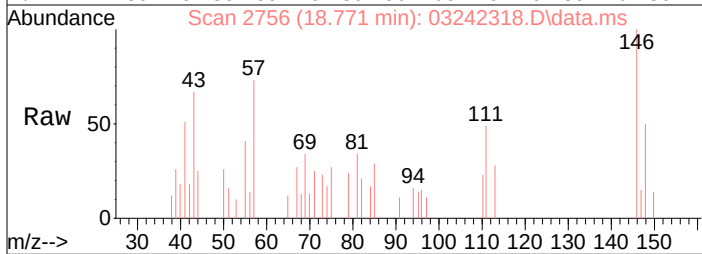
Tgt Ion:	105	Resp:	97024
Ion Ratio	Lower	Upper	
105	100		
120	45.7	32.8	72.8





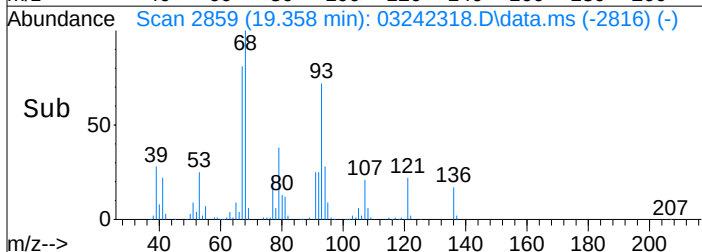
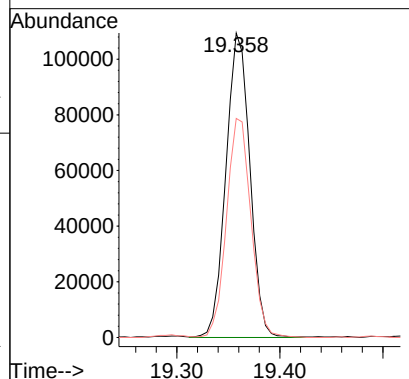
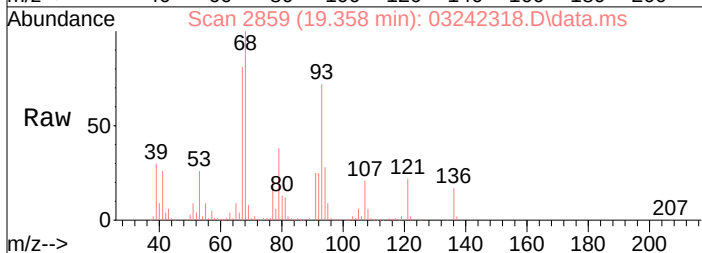
#85
 1,3-Dichlorobenzene
 Concen: 0.05 ng
 RT: 18.77 min Scan# 2756
 Delta R.T. -0.006 min
 Lab File: 03242318.D
 Acq: 24 Mar 2023 16:45

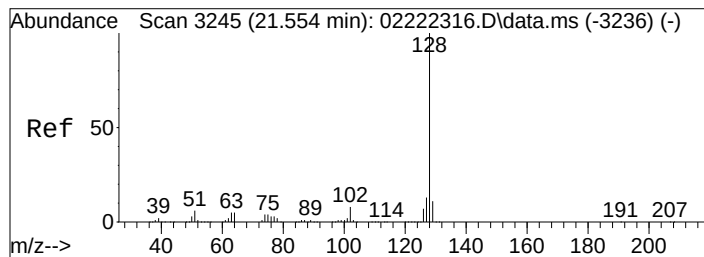
Tgt Ion: 146 Resp: 2904
 Ion Ratio Lower Upper
 146 100
 148 59.5 44.4 84.4



#91
 d-Limonene
 Concen: 5.53 ng
 RT: 19.36 min Scan# 2859
 Delta R.T. -0.006 min
 Lab File: 03242318.D
 Acq: 24 Mar 2023 16:45

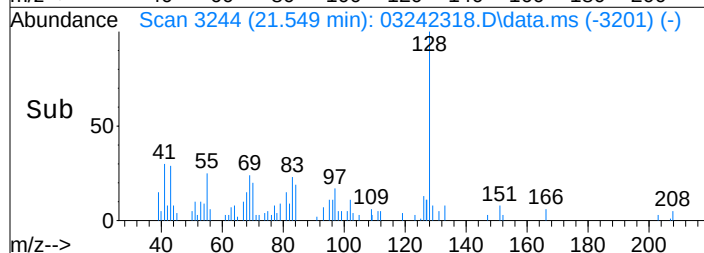
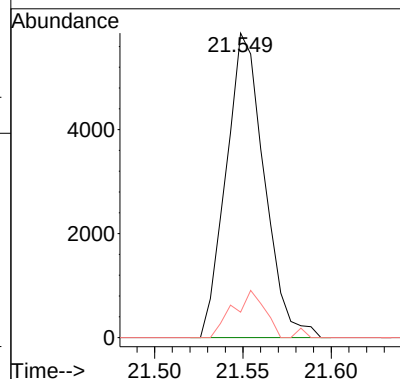
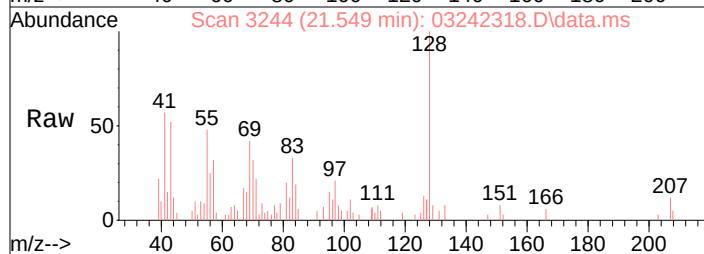
Tgt Ion: 68 Resp: 177212
 Ion Ratio Lower Upper
 68 100
 93 73.4 54.8 94.8





#95
 Naphthalene
 Concen: 0.09 ng
 RT: 21.55 min Scan# 3244
 Delta R.T. -0.006 min
 Lab File: 03242318.D
 Acq: 24 Mar 2023 16:45

Tgt Ion:128 Resp: 8780
 Ion Ratio Lower Upper
 128 100
 129 12.9 0.0 30.9



Data File : I:\MS13\DATA\2023_03\24\03242318.D
 Acq On : 24 Mar 2023 16:45
 Sample : P2301250-013 (1000mL)
 Misc : S35-01202301

Vial: 2
 Operator: TZ
 Inst : MS13

TZ 3/28/23

Quant Time: Mar 28 09:46:27 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.33	130	245847	12.500	ng	0.01
16) 1,4-Difluorobenzene (C_2)	9.38	114	1076647	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	14.88	54	207405	12.500	ng	0.00

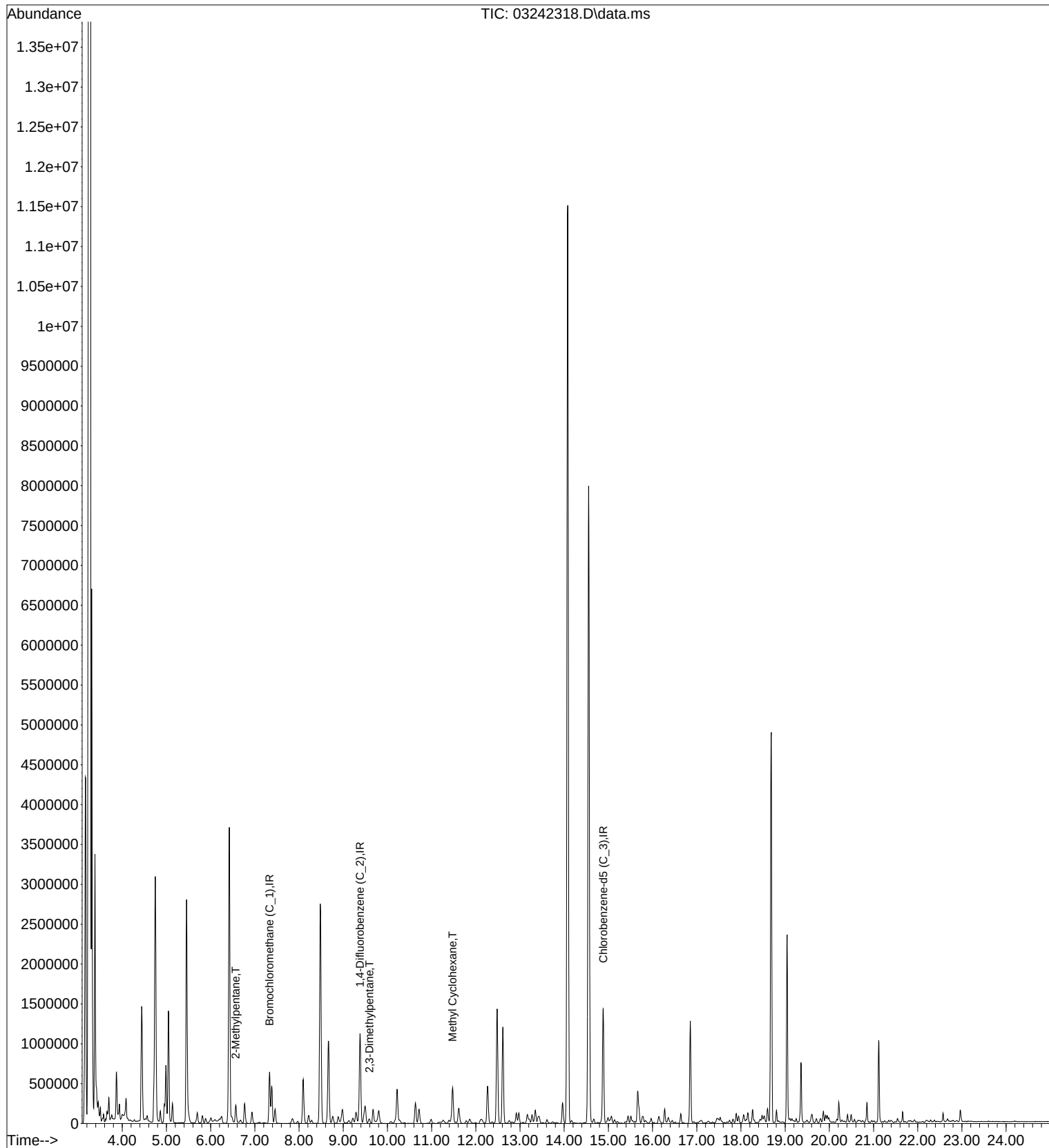
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.23	85	760	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	0.00	83	0	N.D.	d	
4) 1,1-Difluoroethane	0.00	65	0	N.D.	d	
5) Chlorodifluoromethane ...	0.00	67	0	N.D.	d	
6) 1-Chloro-1,1-Difluoroe...	3.63	65	3046	N.D.		
7) Dichlorofluoromethane ...	4.35	67	1183	N.D.		
8) Vinylbromide	4.53	108	136	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	4.66	83	2410	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	0.00	43	0	N.D.	d	
12) 2-Methylpentane	6.57	71	50221	2.924	ng	78
13) 2,2-Dichloropropane	7.52	77	372	N.D.		
14) 1,1-Dichloropropene	8.76	75	2424	N.D.		
15) Thiophene	9.13	84	1903	N.D.		
17) 2,3-Dimethylpentane	9.59	56	30929	0.975	ng	98
18) Dibromomethane	9.86	174	685	N.D.		
20) Methyl Cyclohexane	11.48	55	197588	5.723	ng	88
21) 1,3-Dichloropropane	0.00	76	0	N.D.	d	
22) 1,1,1,2-Tetrachloroethane	14.91	131	135	N.D.		
23) 1-Chlorohexane	15.22	91	627	N.D.		
24) 1,2,3-Trichloropropane	0.00	75	0	N.D.	d	
25) Bromobenzene	17.13	77	488	N.D.		
26) 2-Chlorotoluene	17.67	91	1054	N.D.		
27) 4-Chlorotoluene	0.00	91	0	N.D.	d	
28) Indane	19.39	117	8365	N.D.		
29) Indene	19.51	115	1391	N.D.		
30) 1,2,4,5-Tetramethylben...	20.65	119	5040	N.D.		
31) 1,2,3,4-Tetramethylben...	20.69	119	6445	N.D.		
32) 1,2,3,5-Tetramethylben...	21.12	119	7414	N.D.		
33) 1,2,3-Trichlorobenzene	21.86	180	708	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242318.D
Acq On : 24 Mar 2023 16:45
Sample : P2301250-013 (1000mL)
Misc : S35-01202301

Vial: 2
Operator: TZ
Inst : MS13

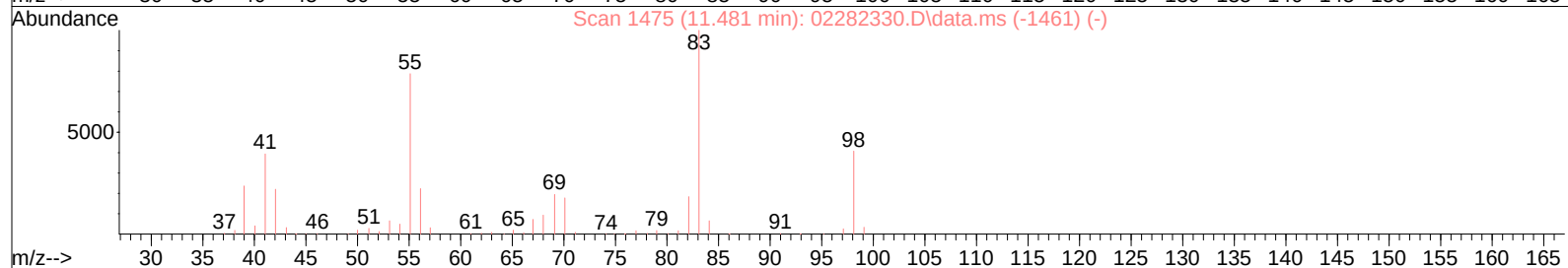
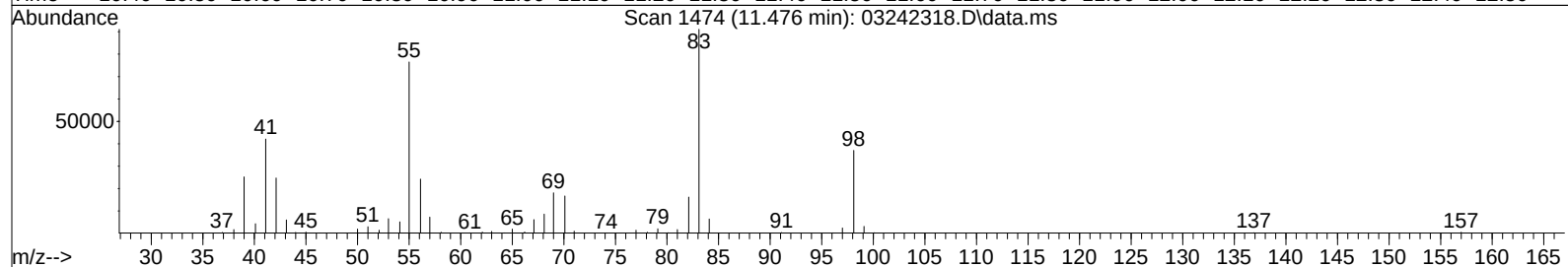
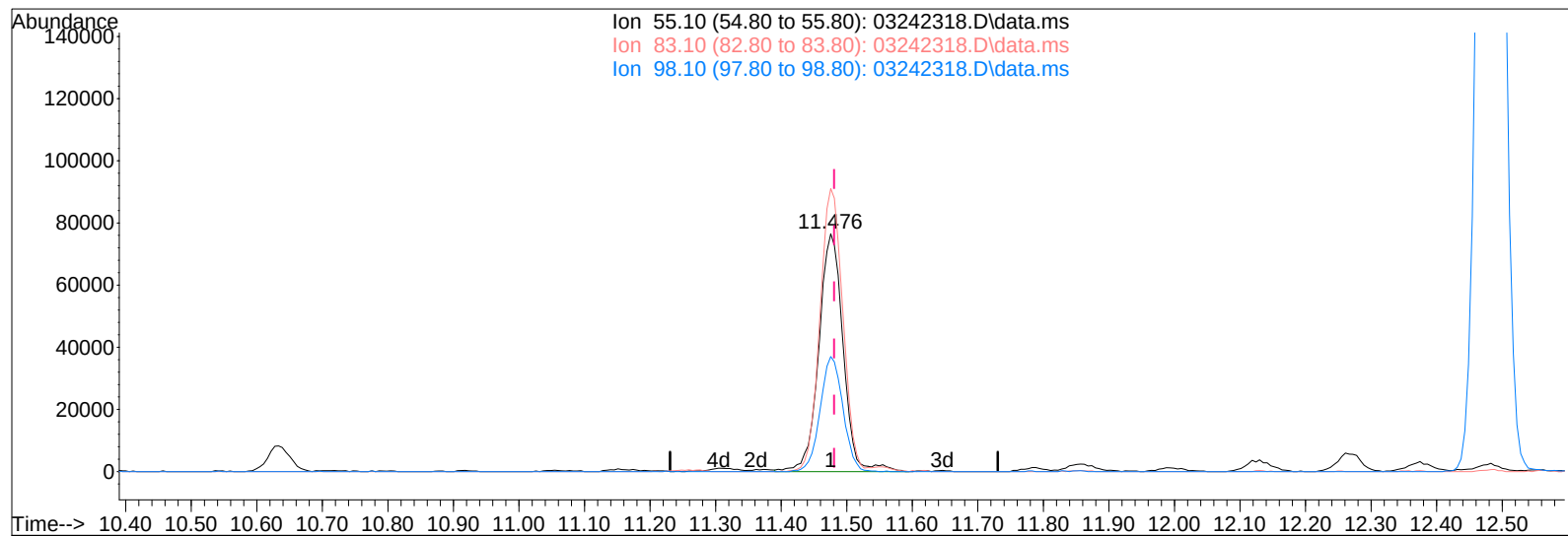
Quant Time: Mar 28 09:46:27 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242318.D
Acq On : 24 Mar 2023 16:45
Sample : P2301250-013 (1000mL)
Misc : S35-01202301

Vial: 2
Operator: TZ
Inst : MS13

Quant Time: Mar 27 16:04:10 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03242318.D\data.ms

(20) Methyl Cyclohexane (T)

11.476min (-0.006) 5.72ng

response 197588

Ion	Exp%	Act%
55.10	100	100
83.10	128.30	113.87
98.10	53.10	45.14
0.00	0.00	0.00

Data File : I:\MS13\DATA\2023_03\27\03272310.D
 Acq On : 27 Mar 2023 9:01
 Sample : P2301250-013dil (100mL)
 Misc : S35-01202301

Vial: 2
 Operator: TZ
 Inst : MS13

TZ 3/27/23

Quant Time: Mar 27 14:32:45 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	233412	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.37	114	1003815	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.87	54	185585	12.500	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.07	65	390035	12.592	ng	-0.04
Spiked Amount	12.500	Range	70 - 130	Recovery	=	100.72%
57) Toluene-d8 (SS2)	12.47	98	1140772	11.953	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	95.60%
73) Bromofluorobenzene (SS3)	16.85	174	407195	11.649	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.20%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	3.46	85	6928	0.162	ng	93
4) Chloromethane	3.64	50	459	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	3.82	62	393	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	4.26	64	225	N.D.		
10) Ethanol	4.39	45	182956	11.037	ng	83
11) Acetonitrile	4.56	41	2687	0.062	ng	# 11
12) Acrolein	4.65	56	264	N.D.		
13) Acetone	4.73	58	197468	13.957	ng	99
14) Trichlorofluoromethane	4.87	101	9412	0.245	ng	96
15) 2-Propanol (Isopropanol)	4.94	45	85007	1.488	ng	85
16) Acrylonitrile	5.11	53	269	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.45	84	4250	0.205	ng	# 76
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	5.69	151	595	N.D.		
22) Carbon Disulfide	5.73	76	21537	0.262	ng	99
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	6.40	63	13261	0.359	ng	96
25) Methyl tert-Butyl Ether	6.48	73	1361	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	6.76	72	7300	0.581	ng	98
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	7.37	61	3589	0.435	ng	96
31) n-Hexane	7.38	57	11850	0.373	ng	99
32) Chloroform	7.44	83	13481	0.358	ng	94
34) Tetrahydrofuran (THF)	7.85	72	1421	0.110	ng	# 60
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	N.D.		
38) 1,1,1-Trichloroethane	8.46	97	194415	5.851	ng	99
39) Isopropyl Acetate	9.36	61	28869	No Calib		
40) 1-Butanol	8.89	56	4279	No Calib	#	
41) Benzene	8.97	78	14796	0.189	ng	100
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	9.28	84	5551	0.194	ng	92
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	10.18	83	381	N.D.		
47) Trichloroethene	10.21	130	16097	0.704	ng	100
48) 1,4-Dioxane	10.20	88	136	N.D.		
49) 2,2,4-Trimethylpentane...	10.27	57	388	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS13\DATA\2023_03\27\03272310.D
 Acq On : 27 Mar 2023 9:01
 Sample : P2301250-013dil (100mL)
 Misc : S35-01202301

Vial: 2
 Operator: TZ
 Inst : MS13

Quant Time: Mar 27 14:32:45 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

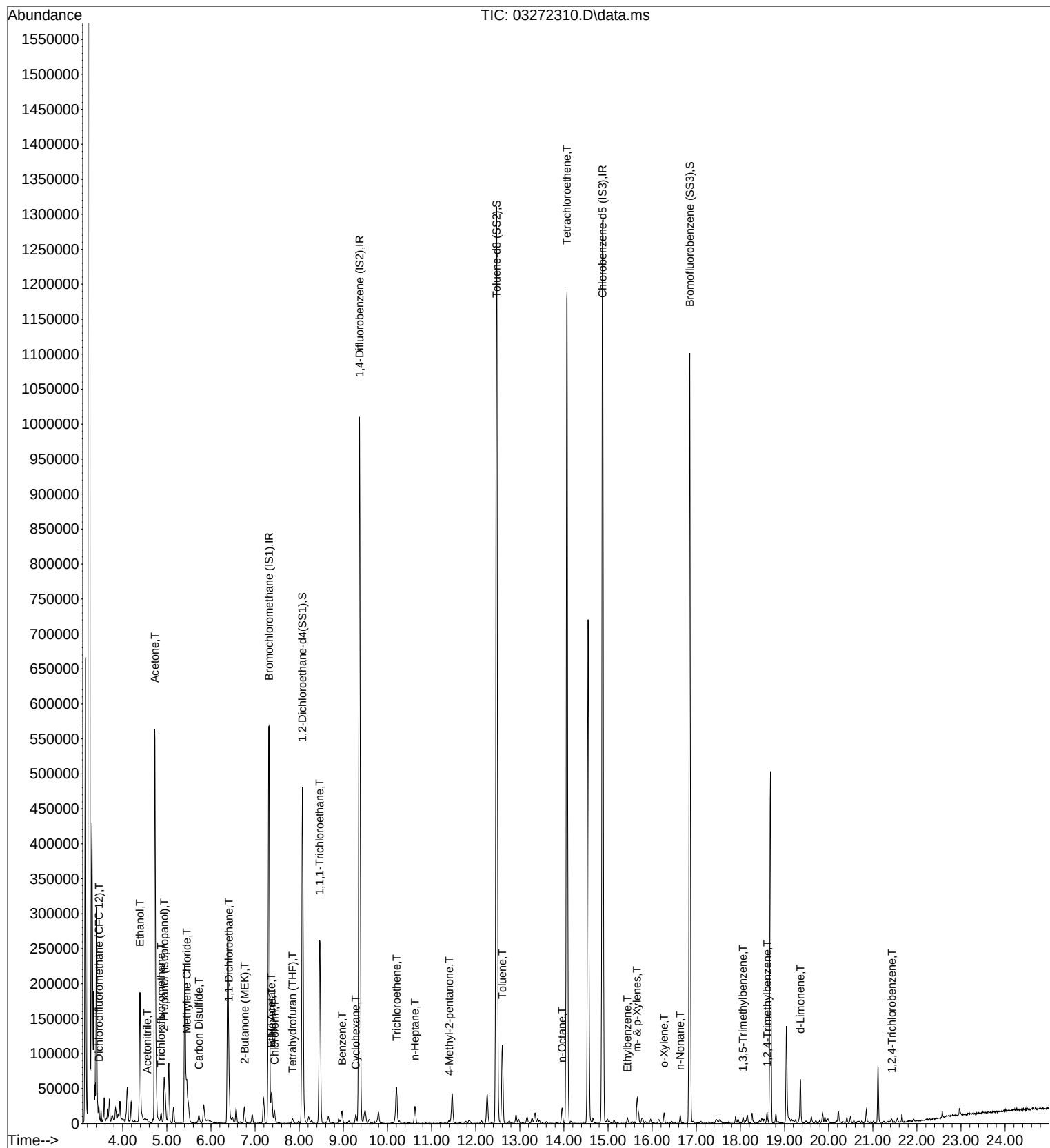
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.62	71	6962	0.368	ng	99
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.40	58	1356	0.081	ng #	94
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.60	91	103930	1.144	ng	99
59) 2-Hexanone	0.00	43	0	N.D.	d	
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.83	43	1209	N.D.		
63) n-Octane	13.96	57	4017	0.225	ng	88
64) Tetrachloroethene	14.07	166	447775	16.200	ng	100
65) Chlorobenzene	14.94	112	424	N.D.		
66) Ethylbenzene	15.44	91	6855	0.063	ng	97
67) m- & p-Xylenes	15.66	91	33818	0.388	ng	98
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.14	104	1518	N.D.		
70) o-Xylene	16.27	91	11478	0.138	ng	100
71) n-Nonane	16.64	43	4573	0.113	ng	93
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	17.06	105	1316	N.D.		
75) alpha-Pinene	17.56	93	1048	N.D.		
76) n-Propylbenzene	17.74	91	2776	N.D.		
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	3824	N.D.		
79) 1,3,5-Trimethylbenzene	18.06	105	5057	0.059	ng	93
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.61	105	8679	0.102	ng	87
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	18.76	91	793	N.D.		
85) 1,3-Dichlorobenzene	18.77	146	543	N.D.		
86) 1,4-Dichlorobenzene	18.87	146	642	N.D.		
87) sec-Butylbenzene	18.95	105	577	N.D.		
88) 4-Isopropyltoluene (p-...	19.18	119	1374	N.D.		
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.30	146	597	N.D.		
91) d-Limonene	19.36	68	14463	0.504	ng	97
92) 1,2-Dibromo-3-Chloropr...	19.86	157	166	N.D.		
93) n-Undecane	18.26	58	254	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	1914	0.050	ng	91
95) Naphthalene	21.55	128	4500	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	21.99	225	389	N.D.		
98) Cyclohexanone	15.60	55	270	No Calib	#	
99) tert-Butylbenzene	18.60	119	1404	N.D.		
100) n-Butylbenzene	19.72	91	1115	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\27\03272310.D
Acq On : 27 Mar 2023 9:01
Sample : P2301250-013dil (100mL)
Misc : S35-01202301

Vial: 2
Operator: TZ
Inst : MS13

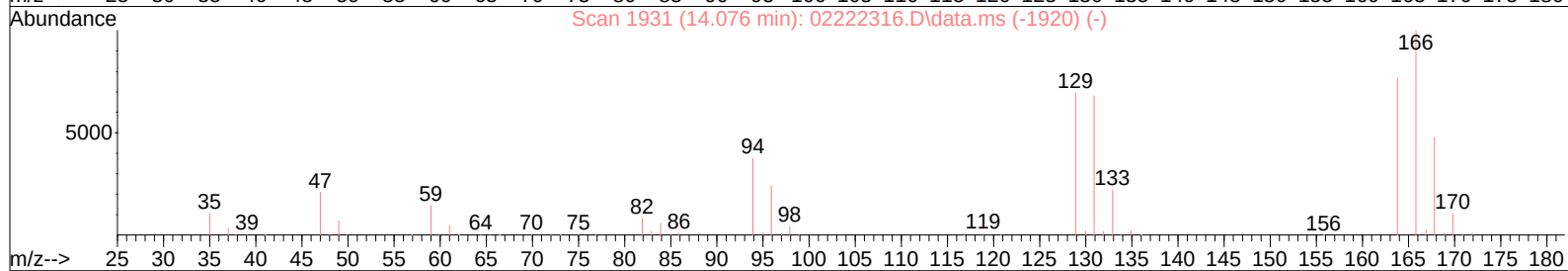
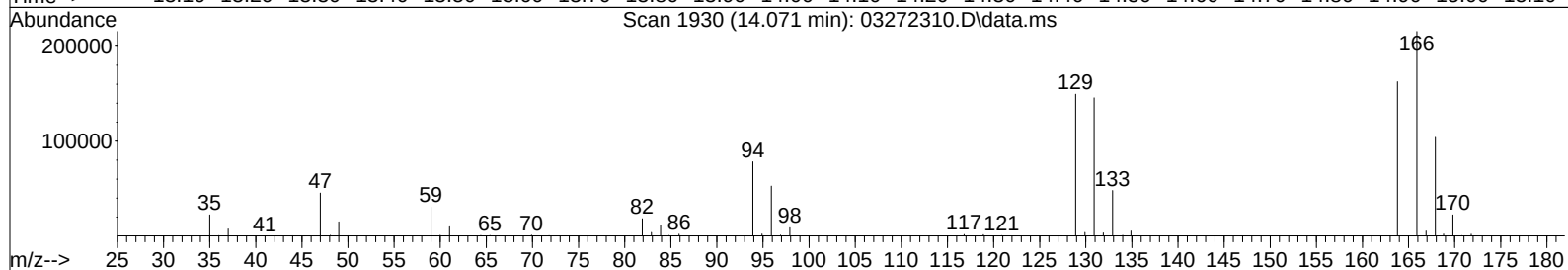
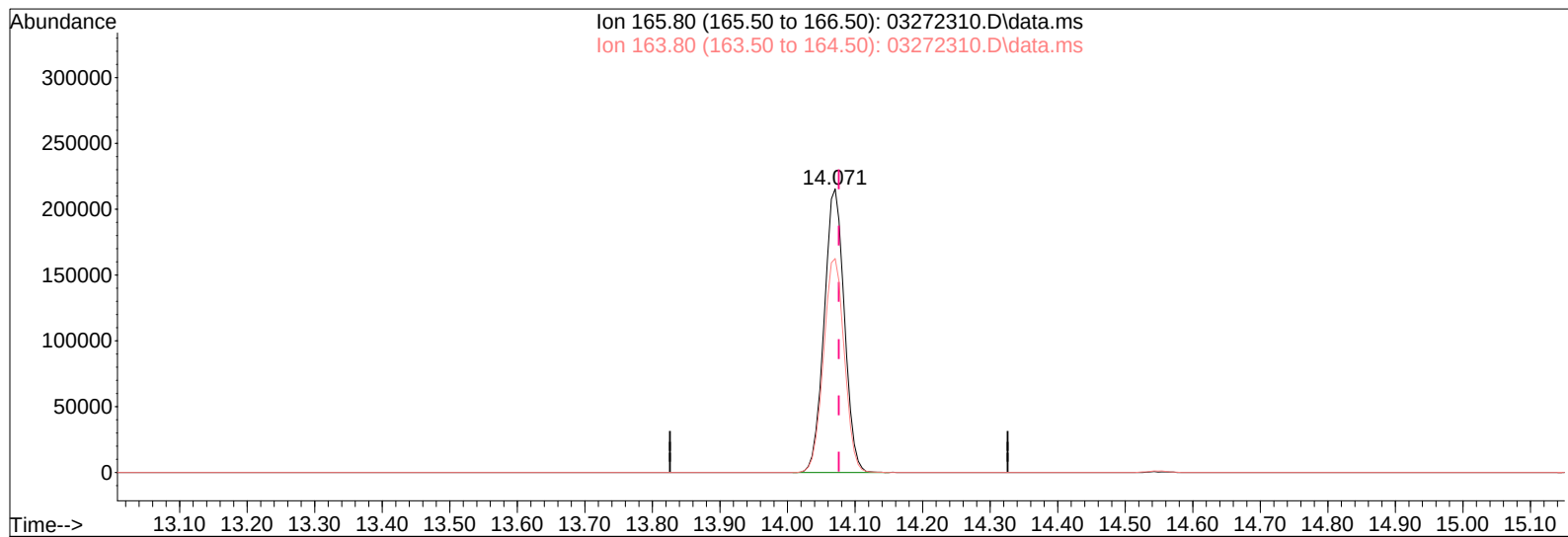
Quant Time: Mar 27 14:32:45 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\27\03272310.D
Acq On : 27 Mar 2023 9:01
Sample : P2301250-013dil (100mL)
Misc : S35-01202301

Vial: 2
Operator: TZ
Inst : MS13

Quant Time: Mar 27 10:22:15 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03272310.D\data.ms

(64) Tetrachloroethene (T)

14.071min (-0.006) 16.20ng

response 447775

Ion	Exp%	Act%
165.80	100	100
163.80	77.30	77.69
0.00	0.00	0.00
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG13A

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-014

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala/Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02291

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23 & 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -2.92 Final Pressure (psig): 3.78

Container Dilution Factor: 1.57

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	3.1	0.83	0.14	0.63	0.17	0.028	
74-87-3	Chloromethane	ND	0.33	0.14	ND	0.16	0.065	
75-01-4	Vinyl Chloride	0.36	0.17	0.089	0.14	0.068	0.035	
74-83-9	Bromomethane	ND	0.33	0.12	ND	0.085	0.030	
75-00-3	Chloroethane	ND	0.33	0.10	ND	0.12	0.039	
67-64-1	Acetone	100	8.3	1.9	43	3.5	0.79	
75-69-4	Trichlorofluoromethane	1.5	0.82	0.13	0.26	0.15	0.023	
75-35-4	1,1-Dichloroethene	ND	0.17	0.12	ND	0.044	0.029	
75-09-2	Methylene Chloride	5.7	0.83	0.24	1.6	0.24	0.068	
76-13-1	Trichlorotrifluoroethane	0.46	0.85	0.12	0.060	0.11	0.016	J
75-15-0	Carbon Disulfide	3.0	1.7	0.25	0.95	0.54	0.081	
156-60-5	trans-1,2-Dichloroethene	0.46	0.17	0.12	0.12	0.044	0.029	
75-34-3	1,1-Dichloroethane	ND	0.17	0.12	ND	0.043	0.030	
1634-04-4	Methyl tert-Butyl Ether	ND	0.85	0.099	ND	0.24	0.027	
78-93-3	2-Butanone (MEK)	9.2	1.6	0.17	3.1	0.55	0.059	
156-59-2	cis-1,2-Dichloroethene	15	0.17	0.12	3.9	0.044	0.030	
67-66-3	Chloroform	750	1.7	1.1	150	0.35	0.23	D
107-06-2	1,2-Dichloroethane	ND	0.17	0.093	ND	0.043	0.023	
71-55-6	1,1,1-Trichloroethane	3.8	0.17	0.10	0.70	0.032	0.019	
71-43-2	Benzene	7.5	0.17	0.12	2.4	0.054	0.038	
56-23-5	Carbon Tetrachloride	0.30	0.17	0.12	0.048	0.027	0.018	
110-82-7	Cyclohexane	12	1.6	0.24	3.6	0.48	0.068	
78-87-5	1,2-Dichloropropane	ND	0.17	0.10	ND	0.037	0.022	
75-27-4	Bromodichloromethane	2.3	0.17	0.12	0.34	0.026	0.018	
79-01-6	Trichloroethene	33	0.17	0.11	6.2	0.032	0.021	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG13A

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-014

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala/Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02291

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23 & 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -2.92 Final Pressure (psig): 3.78

Container Dilution Factor: 1.57

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.85	0.13	ND	0.19	0.029	
108-10-1	4-Methyl-2-pentanone	2.5	1.7	0.11	0.62	0.42	0.028	
10061-02-6	trans-1,3-Dichloropropene	ND	0.80	0.17	ND	0.18	0.038	
79-00-5	1,1,2-Trichloroethane	ND	0.17	0.085	ND	0.032	0.016	
108-88-3	Toluene	21	0.83	0.10	5.5	0.22	0.027	
591-78-6	2-Hexanone	ND	1.7	0.10	ND	0.42	0.025	
124-48-1	Dibromochloromethane	0.14	0.17	0.11	0.016	0.020	0.013	J
106-93-4	1,2-Dibromoethane	ND	0.17	0.097	ND	0.022	0.013	
127-18-4	Tetrachloroethene	390	1.7	1.1	57	0.25	0.16	D
108-90-7	Chlorobenzene	ND	0.83	0.11	ND	0.18	0.024	
100-41-4	Ethylbenzene	1.5	0.83	0.12	0.34	0.19	0.027	
179601-23-1	m,p-Xylenes	8.0	1.7	0.22	1.8	0.40	0.051	
75-25-2	Bromoform	ND	0.85	0.17	ND	0.082	0.017	
100-42-5	Styrene	0.64	0.83	0.14	0.15	0.20	0.032	J
95-47-6	o-Xylene	2.9	0.83	0.12	0.67	0.19	0.028	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.17	0.12	ND	0.025	0.017	
98-82-8	Cumene	0.37	0.85	0.12	0.075	0.17	0.025	J
541-73-1	1,3-Dichlorobenzene	ND	0.83	0.13	ND	0.14	0.021	
106-46-7	1,4-Dichlorobenzene	0.14	0.83	0.13	0.024	0.14	0.021	J
95-50-1	1,2-Dichlorobenzene	0.14	0.85	0.12	0.023	0.14	0.021	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.7	0.16	ND	0.18	0.016	
120-82-1	1,2,4-Trichlorobenzene	ND	1.7	0.20	ND	0.23	0.028	
79-20-9	Methyl Acetate	ND	0.79	0.38	ND	0.26	0.12	X
108-87-2	Methylcyclohexane	51	0.79	0.41	13	0.20	0.10	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

D = The reported result is from a dilution.

X = See case narrative.

Data File : I:\MS13\DATA\2023_03\24\03242319.D
 Acq On : 24 Mar 2023 17:22
 Sample : P2301250-014 (1000mL)
 Misc : S35-01202301

Vial: 3
 Operator: TZ
 Inst : MS13

Tz 3/27/23

Quant Time: Mar 27 12:29:07 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.34	130	245241	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	9.39	114	1072736	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	14.88	54	220317	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.11	65	422340	12.977	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	103.84%
57) Toluene-d8 (SS2)	12.49	98	1222572	10.790	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	86.32%
73) Bromofluorobenzene (SS3)	16.86	174	473994	11.422	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	91.36%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	3.46	85	89635m	1.995	ng	
4) Chloromethane	3.58	50	1410	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	3.72	135	1717	0.076	ng	94
6) Vinyl Chloride	3.80	62	6850	0.228	ng	97
7) 1,3-Butadiene	0.00	54	0	N.D.	d	
8) Bromomethane	4.08	94	115	N.D.		
9) Chloroethane	0.00	64	0	N.D.	d	
10) Ethanol	4.43	45	586588	33.679	ng	100
11) Acetonitrile	4.58	41	11561	0.255	ng	99
12) Acrolein	4.68	56	2284	0.159	ng	79
13) Acetone	4.78	58	975478	65.623	ng	# 81
14) Trichlorofluoromethane	4.87	101	38035	0.941	ng	99
15) 2-Propanol (Isopropanol)	4.97	45	540021	8.999	ng	98
16) Acrylonitrile	0.00	53	0	N.D.	d	
17) 1,1-Dichloroethene	5.36	96	439	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.45	84	78749	3.614	ng	93
20) 3-Chloro-1-propene (Al...	5.62	41	291	N.D.		
21) Trichlorotrifluoroethane	5.68	151	6208	0.292	ng	93
22) Carbon Disulfide	5.71	76	162508	1.883	ng	100
23) trans-1,2-Dichloroethene	6.23	61	9385	0.295	ng	100
24) 1,1-Dichloroethane	0.00	63	0	N.D.	d	
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.	d	
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	6.78	72	77698	5.888	ng	94
28) cis-1,2-Dichloroethene	7.17	61	305816	9.763	ng	99
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	7.39	61	114634	13.211	ng	97
31) n-Hexane	7.40	57	779613	23.343	ng	99
32) Chloroform	7.46	83	16945415	428.881	ng	100
34) Tetrahydrofuran (THF)	7.87	72	4742	0.350	ng	# 85
35) Ethyl tert-Butyl Ether	7.94	87	107	N.D.		
36) 1,2-Dichloroethane	8.23	62	1473	N.D.		
38) 1,1,1-Trichloroethane	8.49	97	86953	2.449	ng	98
39) Isopropyl Acetate	9.39	61	31392	No Calib		
40) 1-Butanol	8.89	56	67524	No Calib	#	
41) Benzene	8.99	78	398877	4.780	ng	100
42) Carbon Tetrachloride	9.16	117	6066	0.194	ng	97
43) Cyclohexane	9.31	84	243551	7.961	ng	95
44) tert-Amyl Methyl Ether	9.69	73	1075	N.D.		
45) 1,2-Dichloropropane	9.95	63	405	N.D.		
46) Bromodichloromethane	10.15	83	45072m	1.461	ng	
47) Trichloroethene	10.23	130	517646	21.173	ng	99
48) 1,4-Dioxane	0.00	88	0	N.D.	d	
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.	d	
50) Methyl Methacrylate	10.49	100	282	N.D.		

Data File : I:\MS13\DATA\2023_03\24\03242319.D
 Acq On : 24 Mar 2023 17:22
 Sample : P2301250-014 (1000mL)
 Misc : S35-01202301

Vial: 3
 Operator: TZ
 Inst : MS13

Quant Time: Mar 27 12:29:07 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.65	71	1761835	87.245	ng	99
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.39	58	28931	1.608	ng	96
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.	d	
58) Toluene	12.62	91	1414116	13.110	ng	100
59) 2-Hexanone	0.00	43	0	N.D.	d	
60) Dibromochloromethane	13.13	129	2819	0.089	ng	96
61) 1,2-Dibromoethane	13.44	107	143	N.D.		
62) n-Butyl Acetate	13.82	43	20889	0.351	ng	# 1
63) n-Octane	13.97	57	2397758	113.047	ng	97
64) Tetrachloroethene	14.09	166	6572780	200.306	ng	99
65) Chlorobenzene	0.00	112	0	N.D.	d	
66) Ethylbenzene	15.45	91	121967	0.948	ng	99
67) m- & p-Xylenes	15.67	91	526407	5.083	ng	98
68) Bromoform	15.71	173	273	N.D.		
69) Styrene	16.14	104	28885	0.406	ng	97
70) o-Xylene	16.28	91	182418	1.842	ng	99
71) n-Nonane	16.64	43	3005529	62.720	ng	97
72) 1,1,2,2-Tetrachloroethane	16.27	83	1925	N.D.		
74) Cumene	17.06	105	28128	0.234	ng	98
75) alpha-Pinene	17.58	93	17808	0.320	ng	97
76) n-Propylbenzene	17.75	91	28792	0.199	ng	98
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	26847	0.232	ng	98
79) 1,3,5-Trimethylbenzene	18.06	105	75966	0.744	ng	100
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.60	105	93969	0.933	ng	89
83) n-Decane	17.00	58	6890	No Calib	#	
84) Benzyl Chloride	18.81	91	862	N.D.		
85) 1,3-Dichlorobenzene	18.77	146	2790	N.D.		
86) 1,4-Dichlorobenzene	18.87	146	5739	0.091	ng	99
87) sec-Butylbenzene	0.00	105	0	N.D.	d	
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.	d	
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.30	146	5337	0.088	ng	96
91) d-Limonene	19.36	68	50895	1.494	ng	100
92) 1,2-Dibromo-3-Chloropr...	19.85	157	149	N.D.		
93) n-Undecane	18.27	58	40621	No Calib		
94) 1,2,4-Trichlorobenzene	21.43	180	656	N.D.		
95) Naphthalene	21.55	128	24295	0.222	ng	100
96) n-Dodecane	19.19	58	6223	No Calib	#	
97) Hexachlorobutadiene	21.99	225	210	N.D.		
98) Cyclohexanone	15.70	55	168225	No Calib	#	
99) tert-Butylbenzene	0.00	119	0	N.D.	d	
100) n-Butylbenzene	0.00	91	0	N.D.	d	
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Vial: 3
Operator: TZ
Inst : MS13

Quant Time: Mar 27 12:29:07 2023

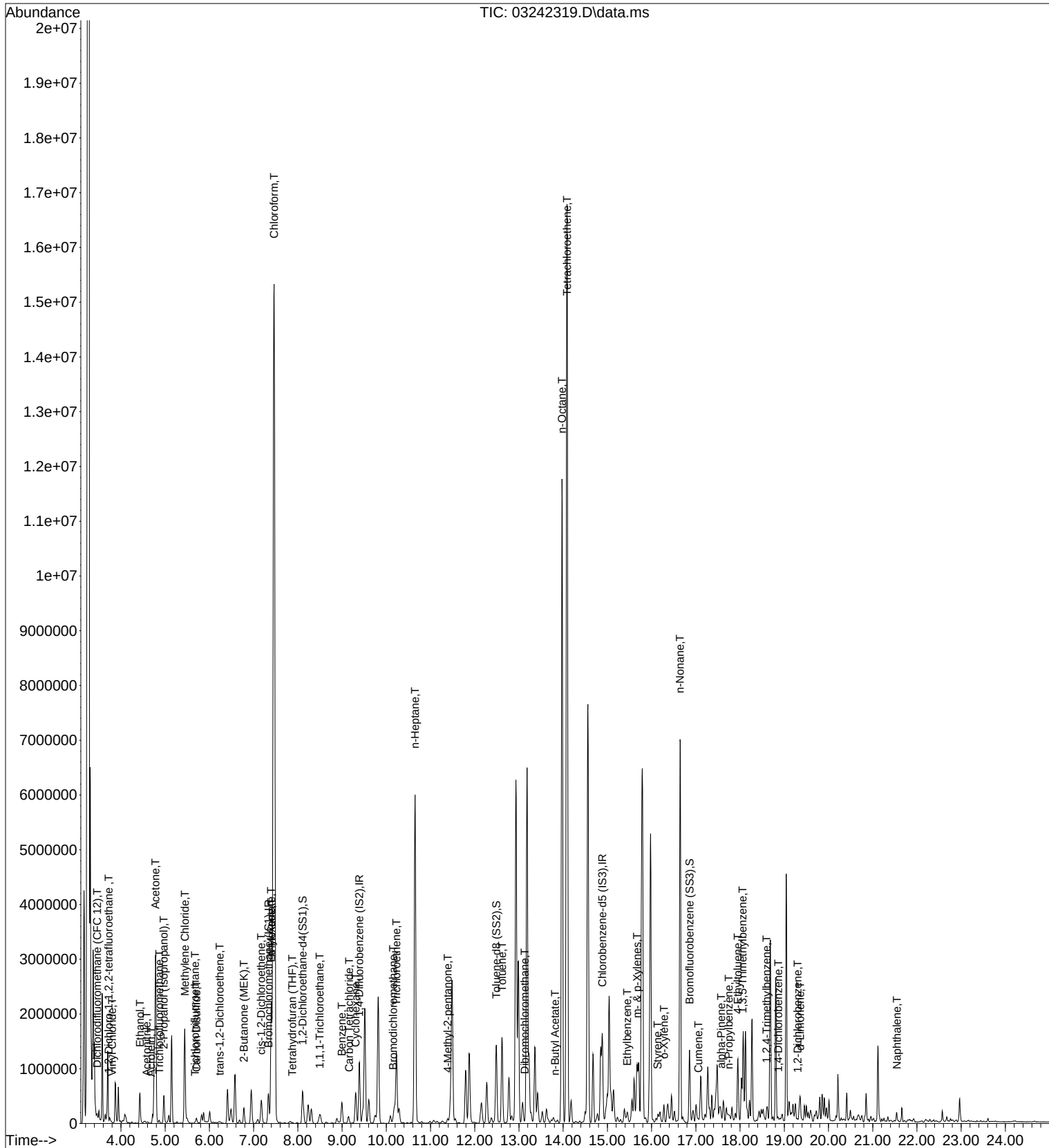
Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA T0-15 per SOP V0A-T015 (CASS T0-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242319.D
 Acq On : 24 Mar 2023 17:22
 Sample : P2301250-014 (1000mL)
 Misc : S35-01202301

Vial: 3
 Operator: TZ
 Inst : MS13

TZ 3/27/23

Quant Time: Mar 27 12:29:07 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.34	130	245241	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	9.39	114	1072736	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	14.88	54	220317	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.11	65	422340	12.977	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	103.84%
57) Toluene-d8 (SS2)	12.49	98	1222572	10.790	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	86.32%
73) Bromofluorobenzene (SS3)	16.86	174	473994	11.422	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	91.36%

Target Compounds

						Qvalue
3) Dichlorodifluoromethan...	3.46	85	89635m	1.995	ng	
5) 1,2-Dichloro-1,1,2,2-t...	3.72	135	1717	0.076	ng	94
6) Vinyl Chloride	3.80	62	6850	0.228	ng	97
10) Ethanol	4.43	45	586588	33.679	ng	100
11) Acetonitrile	4.58	41	11561	0.255	ng	99
12) Acrolein	4.68	56	2284	0.159	ng	79
13) Acetone	4.78	58	975478	65.623	ng	# 81
14) Trichlorofluoromethane	4.87	101	38035	0.941	ng	99
15) 2-Propanol (Isopropanol)	4.97	45	540021	8.999	ng	98
19) Methylene Chloride	5.45	84	78749	3.614	ng	93
21) Trichlorotrifluoroethane	5.68	151	6208	0.292	ng	93
22) Carbon Disulfide	5.71	76	162508	1.883	ng	100
23) trans-1,2-Dichloroethene	6.23	61	9385	0.295	ng	100
27) 2-Butanone (MEK)	6.78	72	77698	5.888	ng	94
28) cis-1,2-Dichloroethene	7.17	61	305816	9.763	ng	99
30) Ethyl Acetate	7.39	61	114634	13.211	ng	97
31) n-Hexane	7.40	57	779613	23.343	ng	99
32) Chloroform	7.46	83	16945415	428.881	ng	100
34) Tetrahydrofuran (THF)	7.87	72	4742	0.350	ng	# 85
38) 1,1,1-Trichloroethane	8.49	97	86953	2.449	ng	98
41) Benzene	8.99	78	398877	4.780	ng	100
42) Carbon Tetrachloride	9.16	117	6066	0.194	ng	97
43) Cyclohexane	9.31	84	243551	7.961	ng	95
46) Bromodichloromethane	10.15	83	45072m	1.461	ng	
47) Trichloroethene	10.23	130	517646	21.173	ng	99
51) n-Heptane	10.65	71	1761835	87.245	ng	99
53) 4-Methyl-2-pentanone	11.39	58	28931	1.608	ng	96
58) Toluene	12.62	91	1414116	13.110	ng	100
60) Dibromochloromethane	13.13	129	2819	0.089	ng	96
62) n-Butyl Acetate	13.82	43	20889	0.351	ng	# 1
63) n-Octane	13.97	57	2397758	113.047	ng	97
64) Tetrachloroethene	14.09	166	6572780	200.306	ng	99
66) Ethylbenzene	15.45	91	121967	0.948	ng	99
67) m- & p-Xylenes	15.67	91	526407	5.083	ng	98
69) Styrene	16.14	104	28885	0.406	ng	97
70) o-Xylene	16.28	91	182418	1.842	ng	99
71) n-Nonane	16.64	43	3005529	62.720	ng	97
74) Cumene	17.06	105	28128	0.234	ng	98
75) alpha-Pinene	17.58	93	17808	0.320	ng	97
76) n-Propylbenzene	17.75	91	28792	0.199	ng	98
78) 4-Ethyltoluene	17.95	105	26847	0.232	ng	98
79) 1,3,5-Trimethylbenzene	18.06	105	75966	0.744	ng	100
82) 1,2,4-Trimethylbenzene	18.60	105	93969	0.933	ng	89
86) 1,4-Dichlorobenzene	18.87	146	5739	0.091	ng	99
90) 1,2-Dichlorobenzene	19.30	146	5337	0.088	ng	96
91) d-Limonene	19.36	68	50895	1.494	ng	100
95) Naphthalene	21.55	128	24295	0.222	ng	100

Data File : I:\MS13\DATA\2023_03\24\03242319.D
Acq On : 24 Mar 2023 17:22
Sample : P2301250-014 (1000mL)
Misc : S35-01202301

Vial: 3
Operator: TZ
Inst : MS13

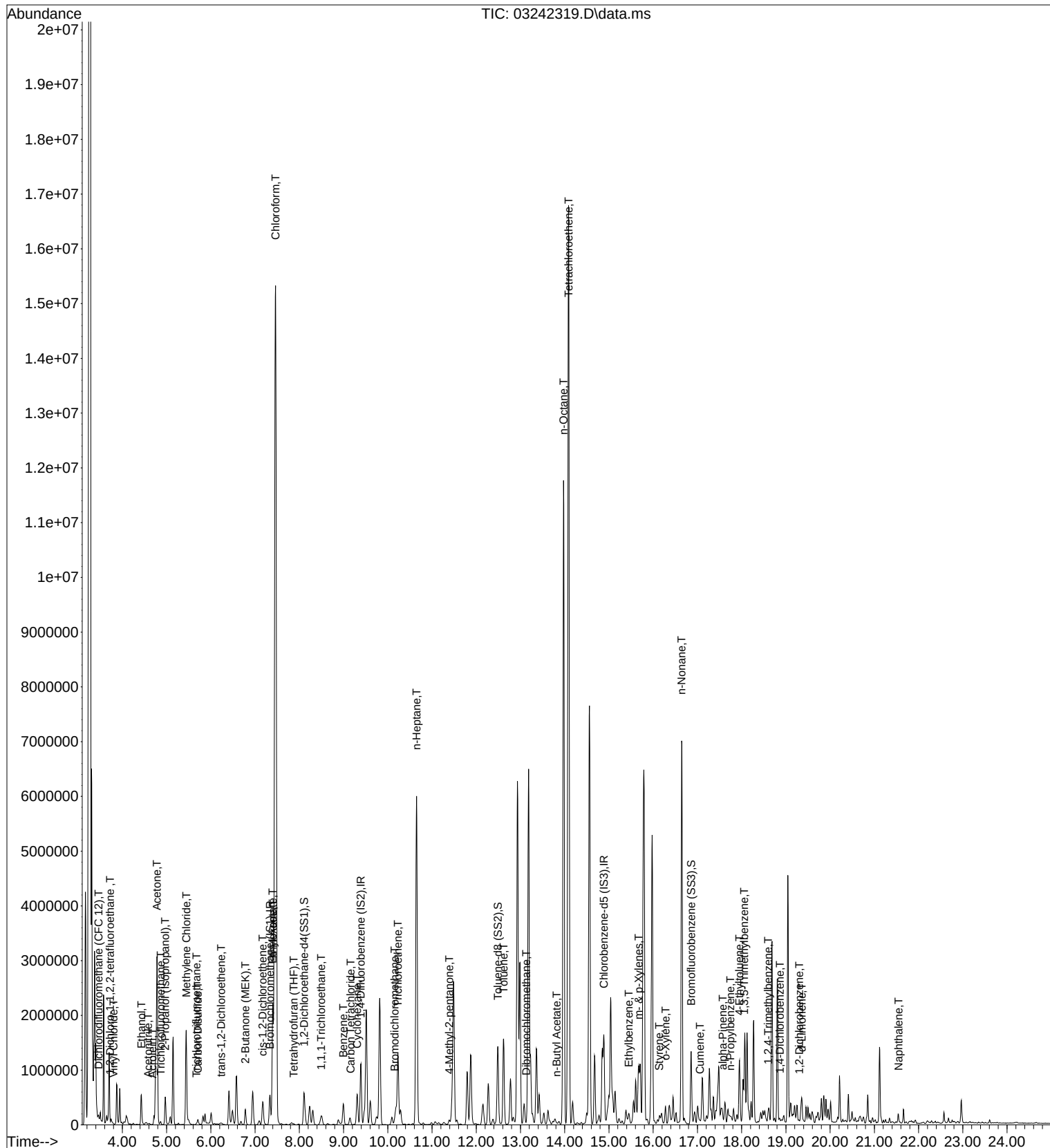
Quant Time: Mar 27 12:29:07 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M

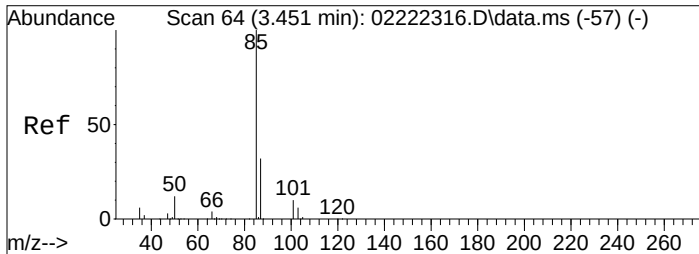
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Vial: 3
Operator: TZ
Inst : MS13

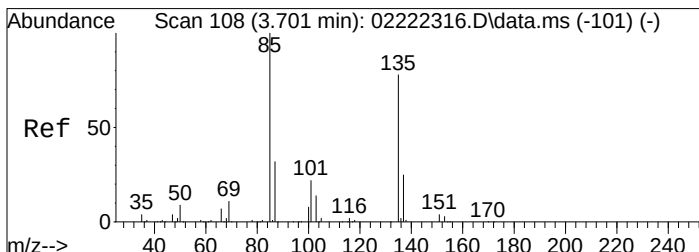
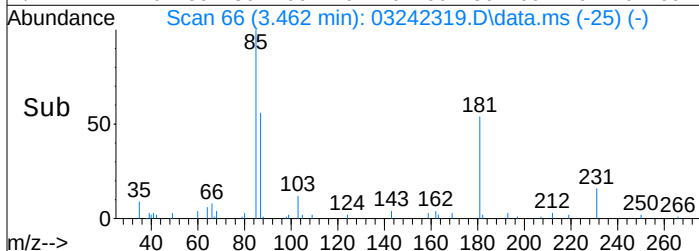
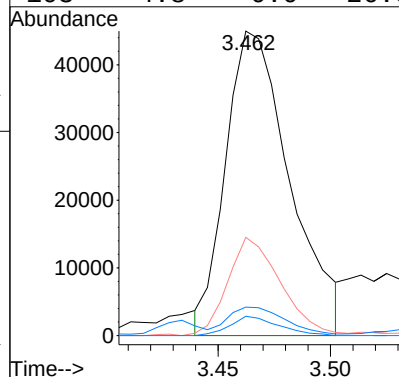
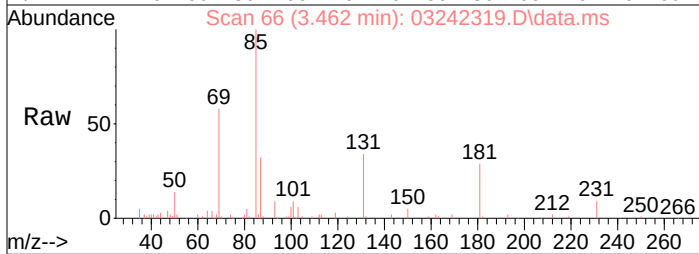
Quant Time: Mar 27 12:29:07 2023





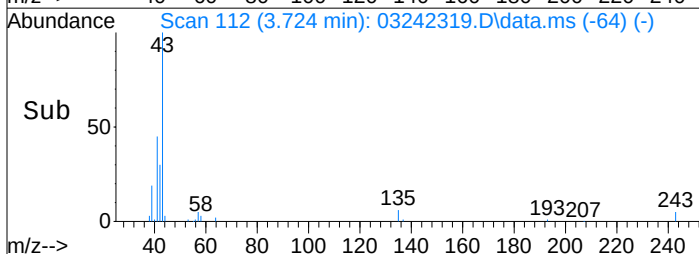
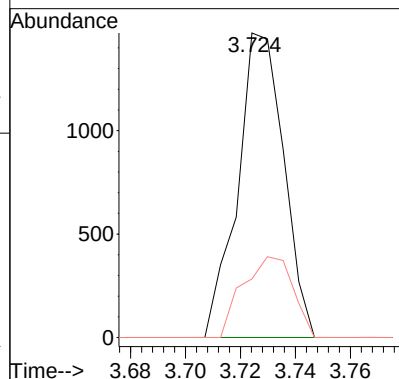
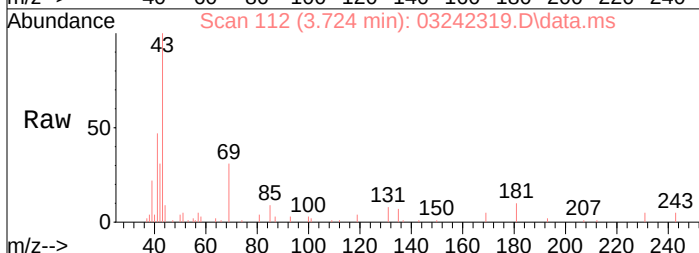
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 2.00 ng m
 RT: 3.46 min Scan# 66
 Delta R.T. -0.016 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 17:22

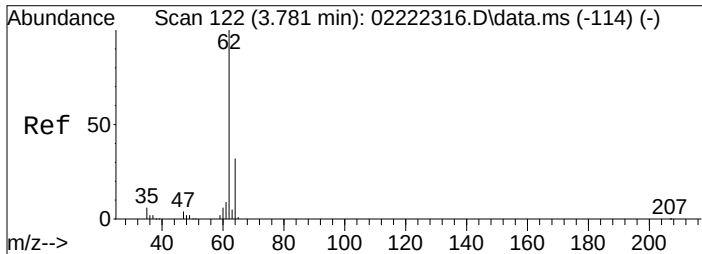
Tgt Ion:	85	Resp:	89635
Ion Ratio		Lower	Upper
85	100		
87	26.6	12.4	52.4
101	7.5	0.0	29.4
103	4.8	0.0	26.0



#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.08 ng
 RT: 3.72 min Scan# 112
 Delta R.T. 0.023 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 17:22

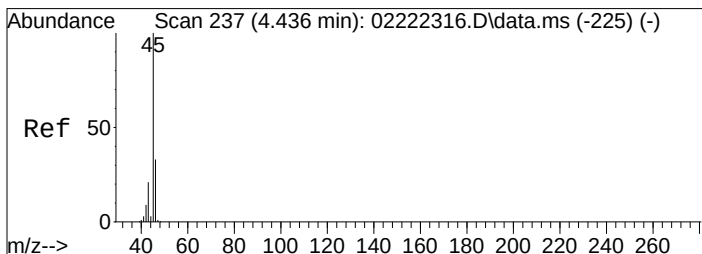
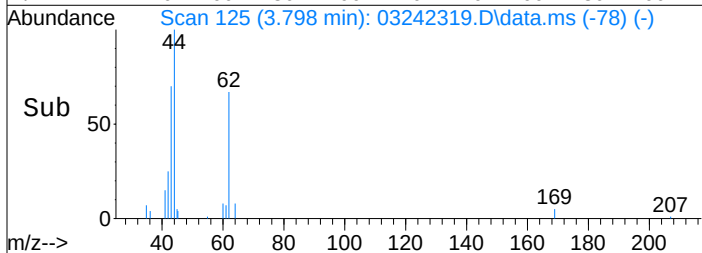
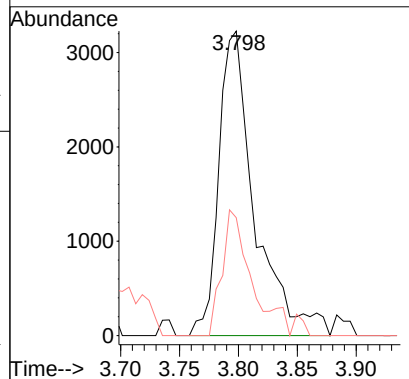
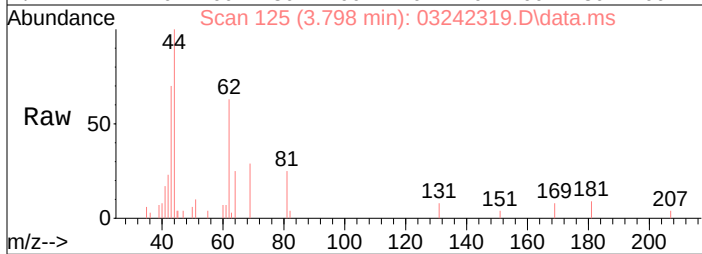
Tgt Ion:	135	Resp:	1717
Ion Ratio		Lower	Upper
135	100		
137	28.9	12.2	52.2





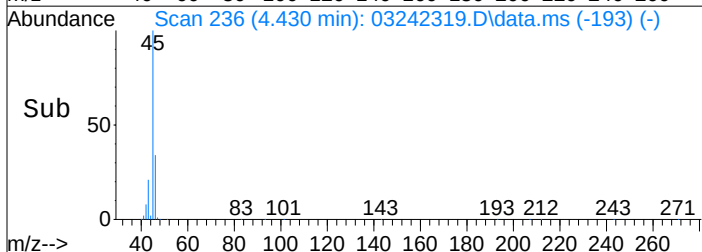
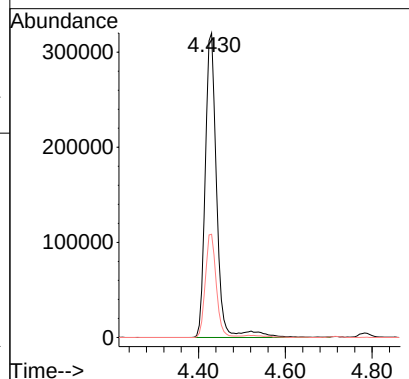
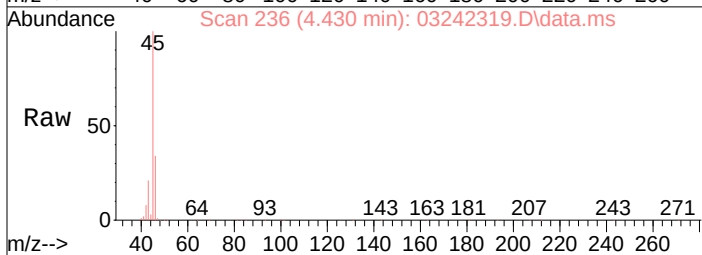
#6
 Vinyl Chloride
 Concen: 0.23 ng
 RT: 3.80 min Scan# 125
 Delta R.T. 0.017 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 17:22

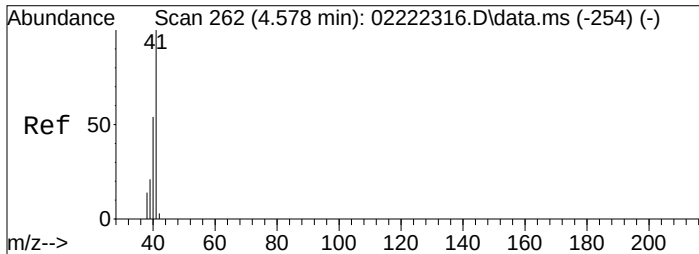
Tgt Ion:	62	Resp:	6850
Ion Ratio		Lower	Upper
62	100		
64	33.5	11.8	51.8



#10
 Ethanol
 Concen: 33.68 ng
 RT: 4.43 min Scan# 236
 Delta R.T. -0.006 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 17:22

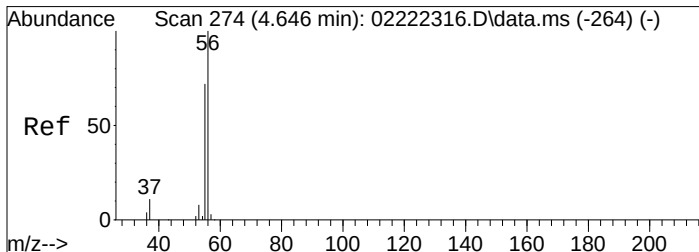
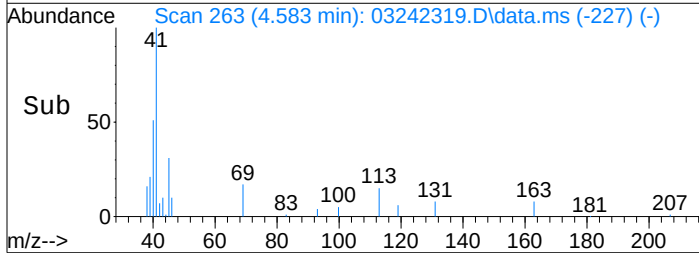
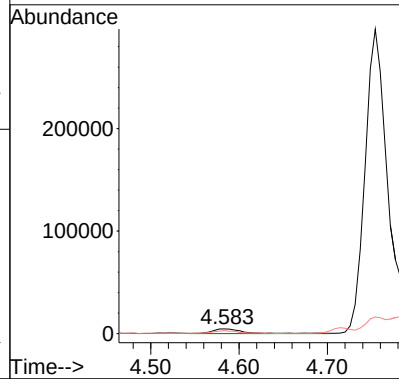
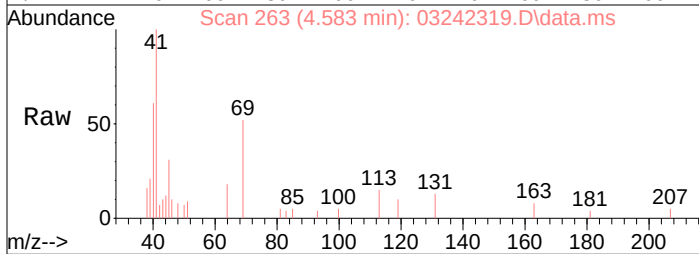
Tgt Ion:	45	Resp:	586588
Ion Ratio		Lower	Upper
45	100		
46	33.9	13.8	53.8





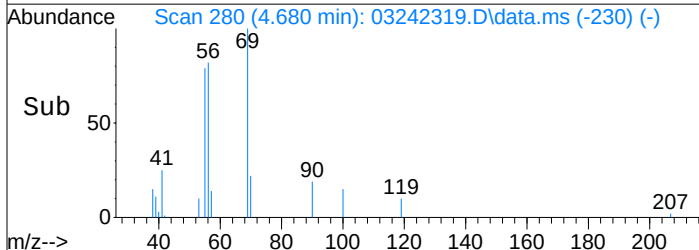
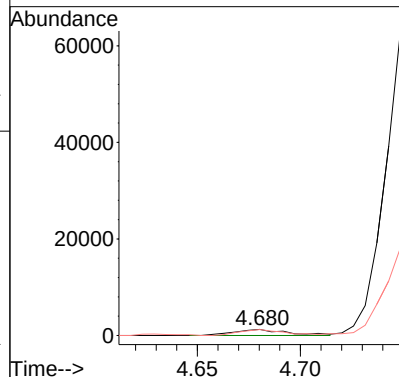
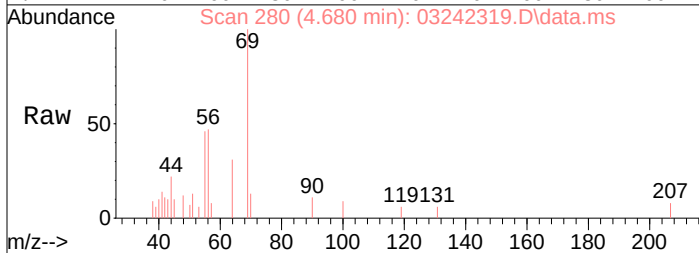
#11
Acetonitrile
Concen: 0.26 ng
RT: 4.58 min Scan# 263
Delta R.T. 0.006 min
Lab File: 03242319.D
Acq: 24 Mar 2023 17:22

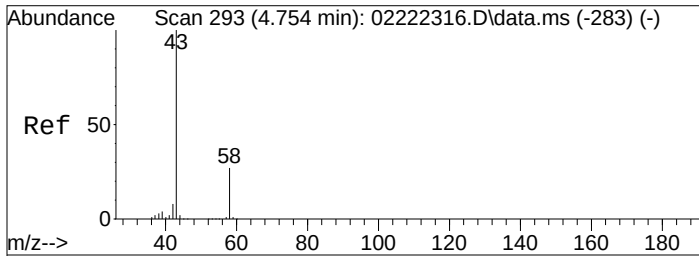
Tgt Ion: 41 Resp: 11561
Ion Ratio Lower Upper
41 100
40 53.4 34.4 74.4



#12
Acrolein
Concen: 0.16 ng
RT: 4.68 min Scan# 280
Delta R.T. 0.034 min
Lab File: 03242319.D
Acq: 24 Mar 2023 17:22

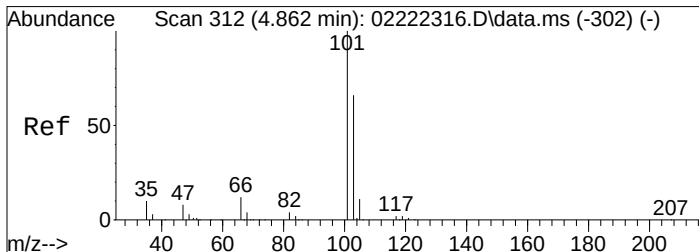
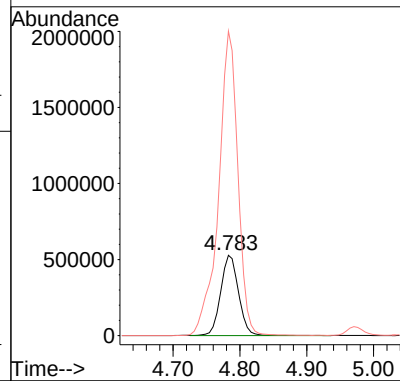
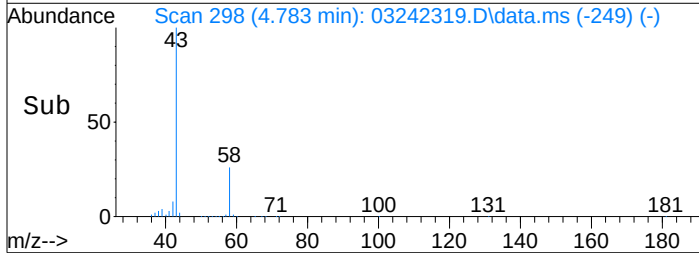
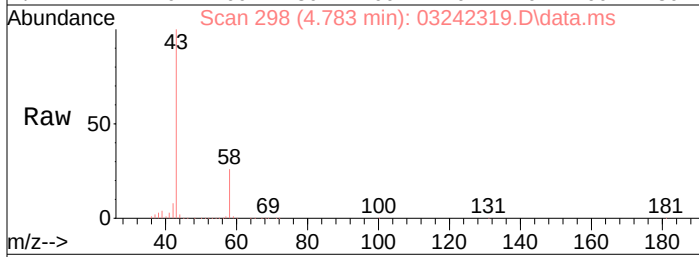
Tgt Ion: 56 Resp: 2284
Ion Ratio Lower Upper
56 100
55 88.3 50.9 90.9





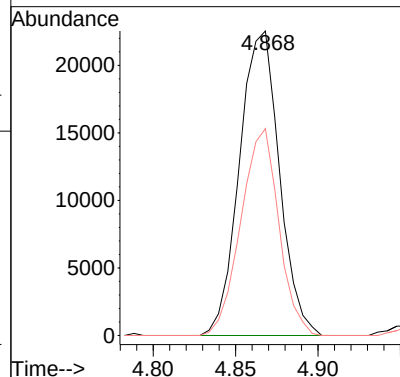
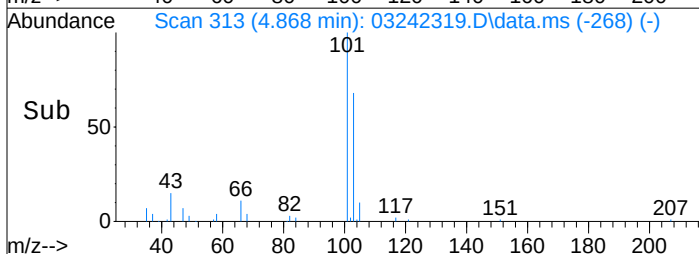
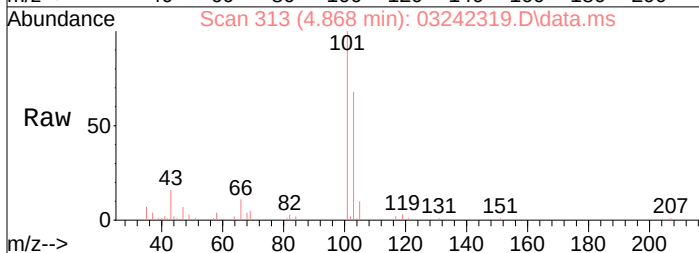
#13
Acetone
Concen: 65.62 ng
RT: 4.78 min Scan# 298
Delta R.T. 0.028 min
Lab File: 03242319.D
Acq: 24 Mar 2023 17:22

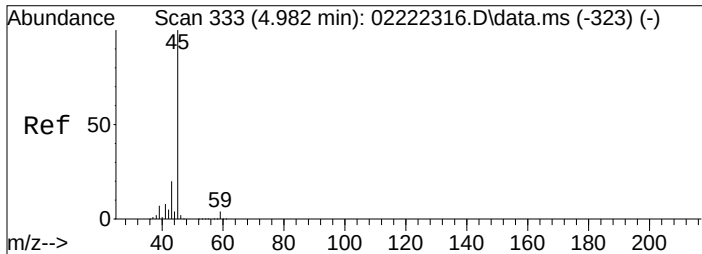
Tgt Ion: 58 Resp: 975478
Ion Ratio Lower Upper
58 100
43 411.5 337.8 397.8#



#14
Trichlorofluoromethane
Concen: 0.94 ng
RT: 4.87 min Scan# 313
Delta R.T. 0.006 min
Lab File: 03242319.D
Acq: 24 Mar 2023 17:22

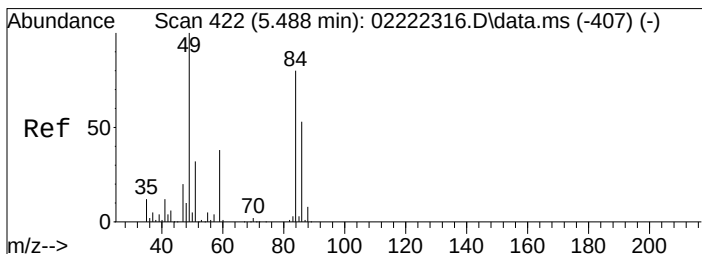
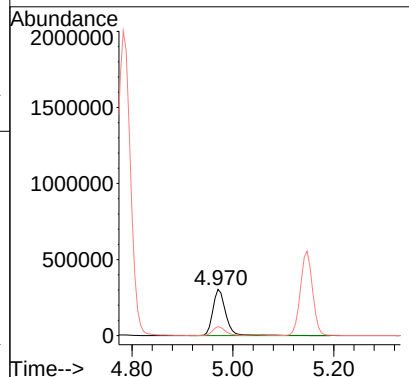
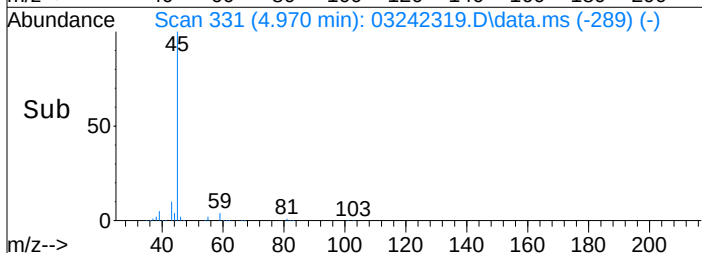
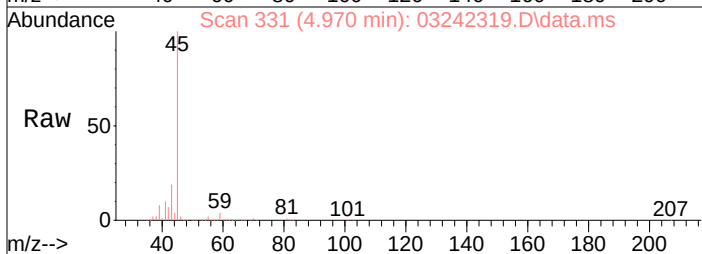
Tgt Ion: 101 Resp: 38035
Ion Ratio Lower Upper
101 100
103 64.5 45.2 85.2





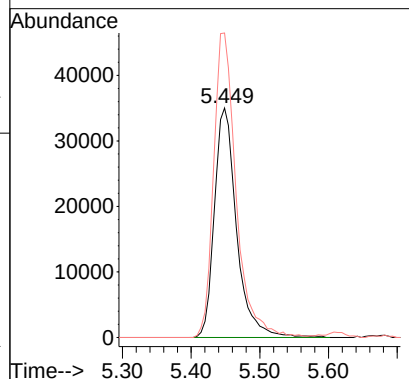
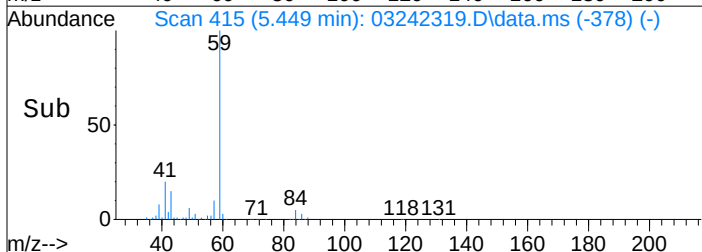
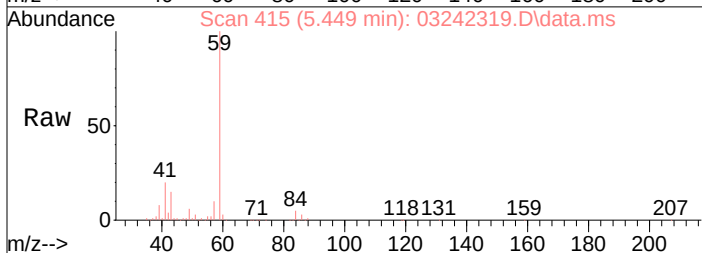
#15
 2-Propanol (Isopropanol)
 Concen: 9.00 ng
 RT: 4.97 min Scan# 331
 Delta R.T. -0.011 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 17:22

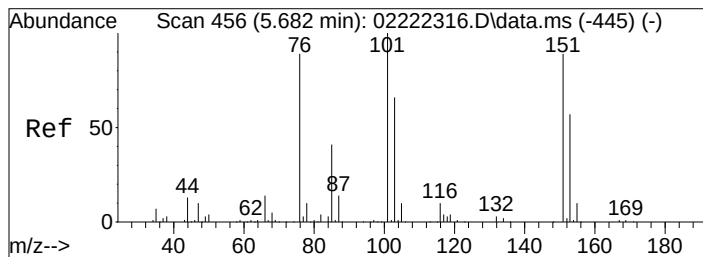
Tgt Ion: 45 Resp: 540021
 Ion Ratio Lower Upper
 45 100
 43 20.4 0.0 39.7



#19
 Methylene Chloride
 Concen: 3.61 ng
 RT: 5.45 min Scan# 415
 Delta R.T. -0.040 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 17:22

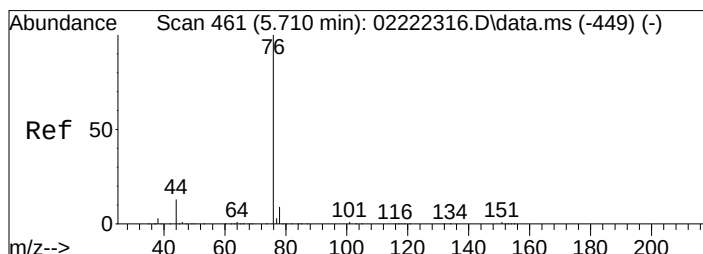
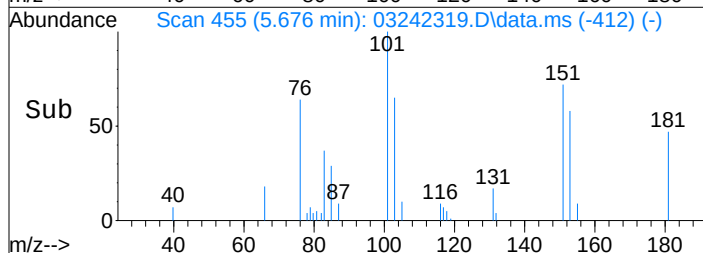
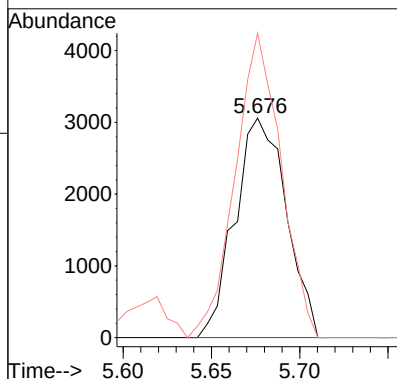
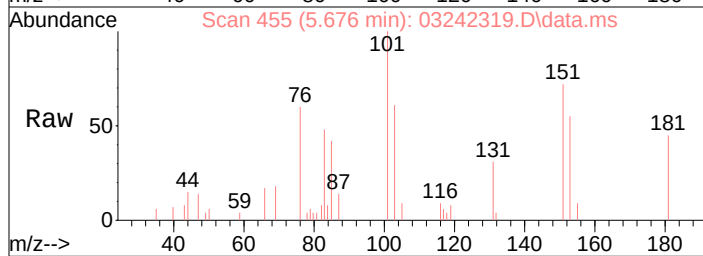
Tgt Ion: 84 Resp: 78749
 Ion Ratio Lower Upper
 84 100
 49 134.7 101.3 151.3





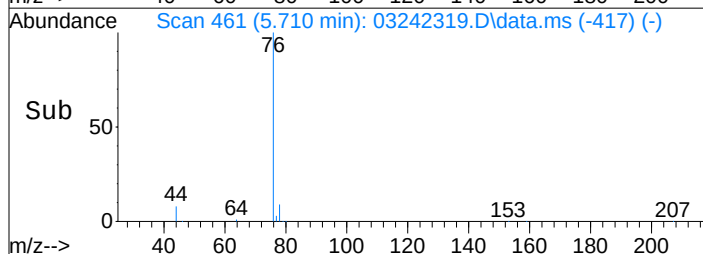
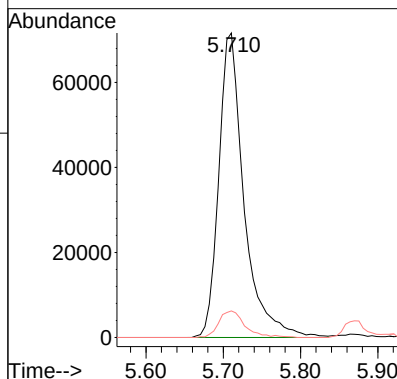
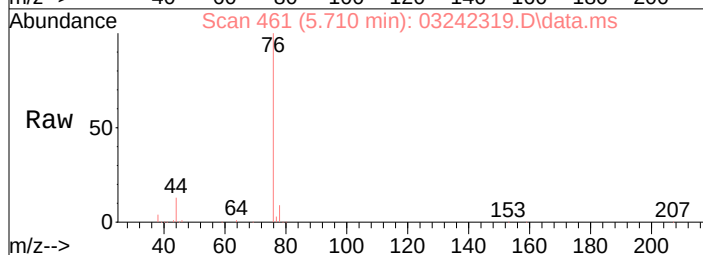
#21
 Trichlorotrifluoroethane
 Concen: 0.29 ng
 RT: 5.68 min Scan# 455
 Delta R.T. -0.006 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 17:22

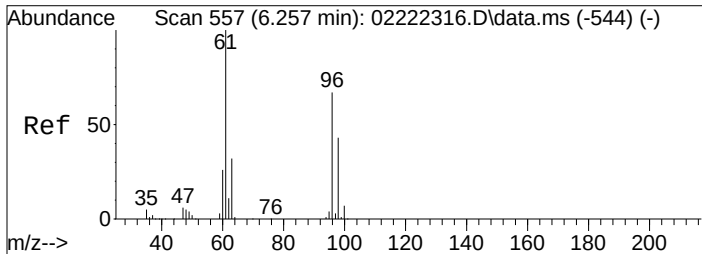
Tgt Ion: 151 Resp: 6208
 Ion Ratio Lower Upper
 151 100
 101 123.7 96.3 136.3



#22
 Carbon Disulfide
 Concen: 1.88 ng
 RT: 5.71 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 17:22

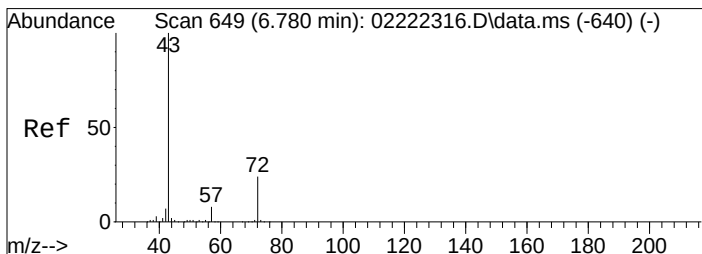
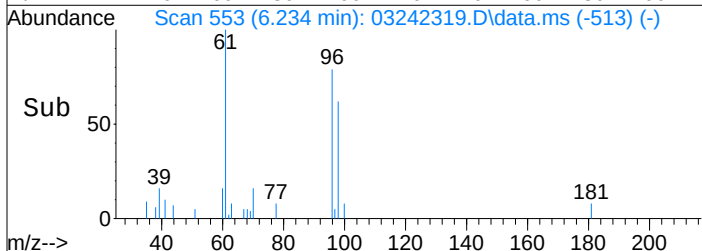
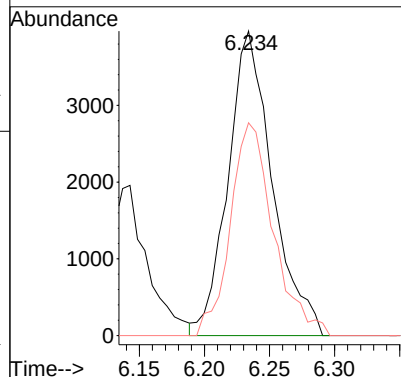
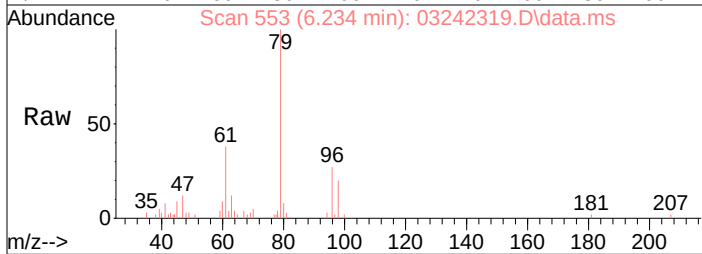
Tgt Ion: 76 Resp: 162508
 Ion Ratio Lower Upper
 76 100
 78 9.1 0.0 29.3





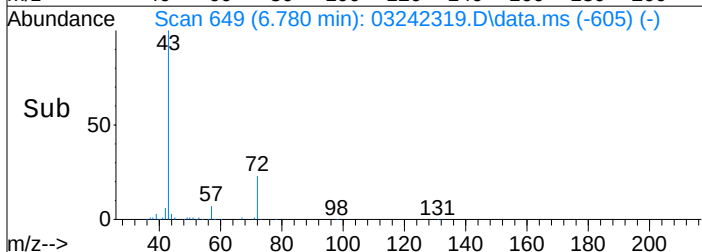
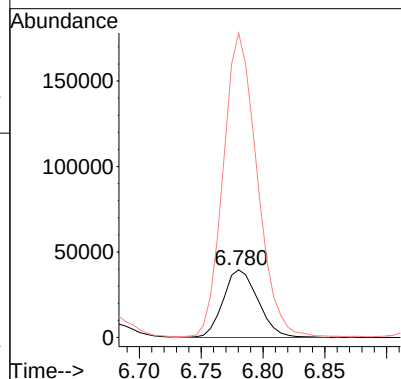
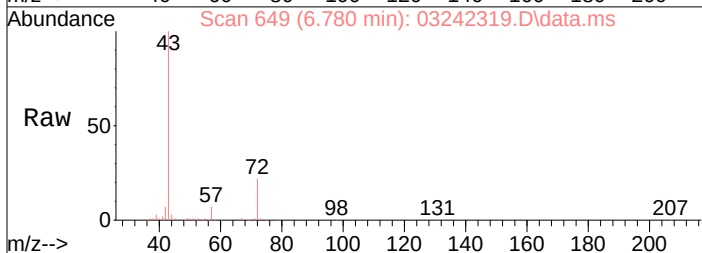
#23
 trans-1,2-Dichloroethene
 Concen: 0.30 ng
 RT: 6.23 min Scan# 553
 Delta R.T. -0.023 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 17:22

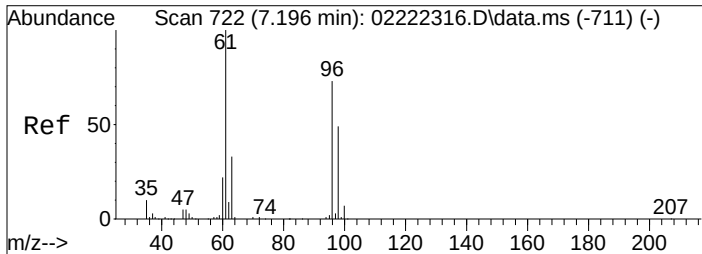
Tgt Ion: 61 Resp: 9385
 Ion Ratio Lower Upper
 61 100
 96 67.8 47.7 87.7



#27
 2-Butanone (MEK)
 Concen: 5.89 ng
 RT: 6.78 min Scan# 649
 Delta R.T. -0.000 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 17:22

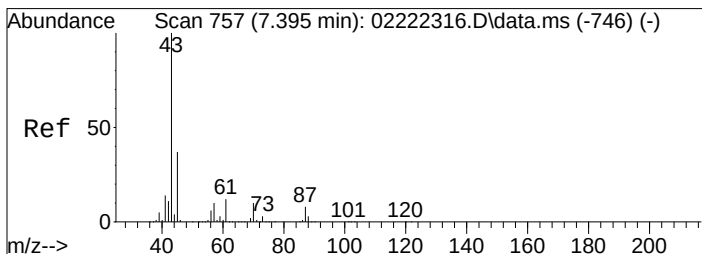
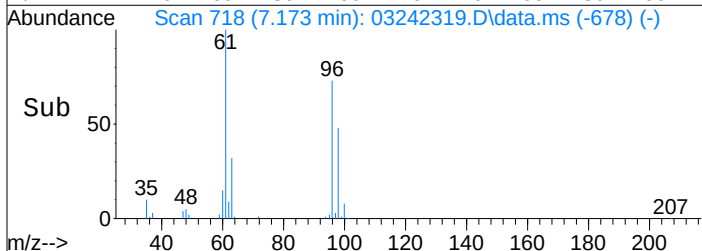
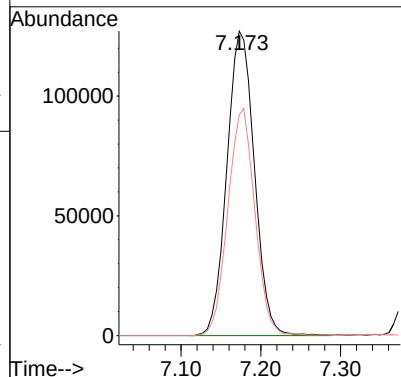
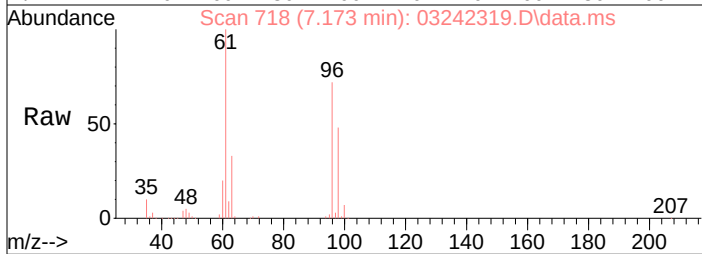
Tgt Ion: 72 Resp: 77698
 Ion Ratio Lower Upper
 72 100
 43 434.7 400.5 440.5





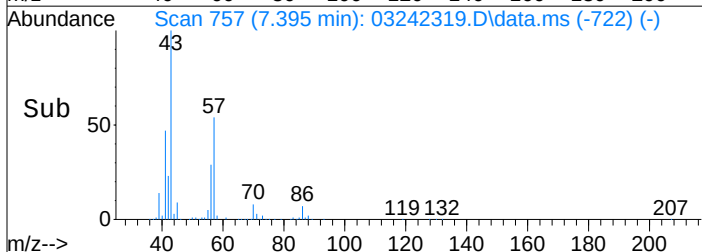
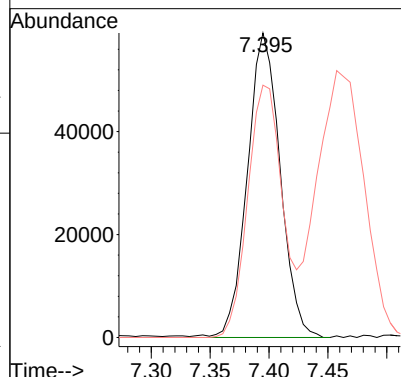
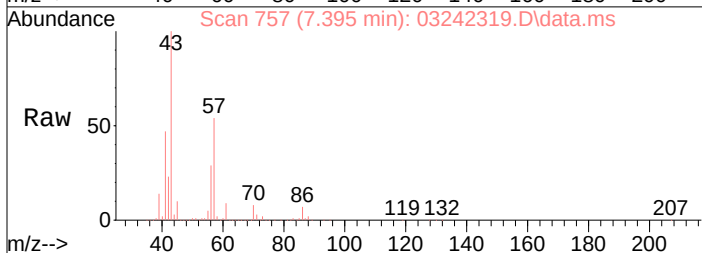
#28
 cis-1,2-Dichloroethene
 Concen: 9.76 ng
 RT: 7.17 min Scan# 718
 Delta R.T. -0.023 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 17:22

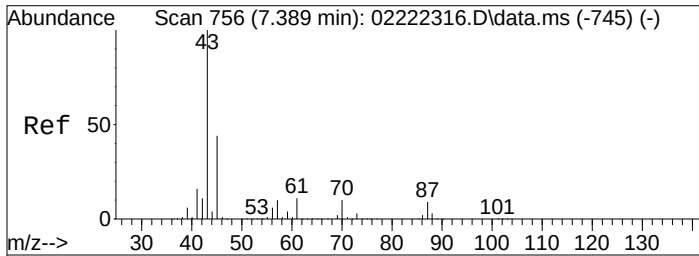
Tgt Ion:	61	Resp:	305816
Ion Ratio	Lower	Upper	
61	100		
96	73.3	54.5	94.5



#30
 Ethyl Acetate
 Concen: 13.21 ng
 RT: 7.39 min Scan# 757
 Delta R.T. -0.000 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 17:22

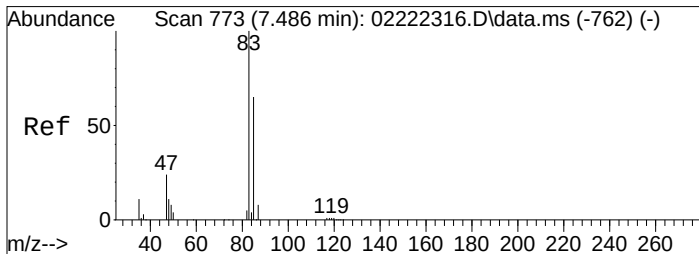
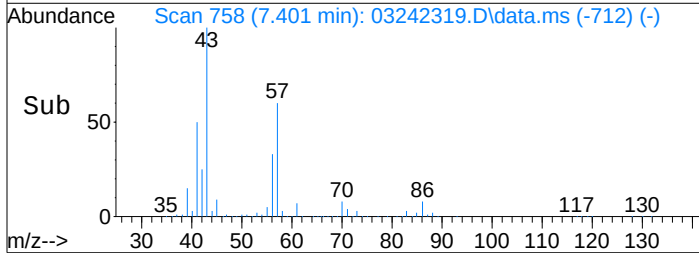
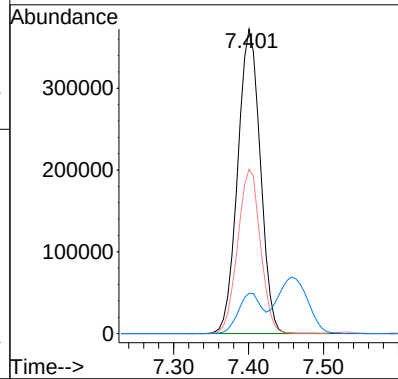
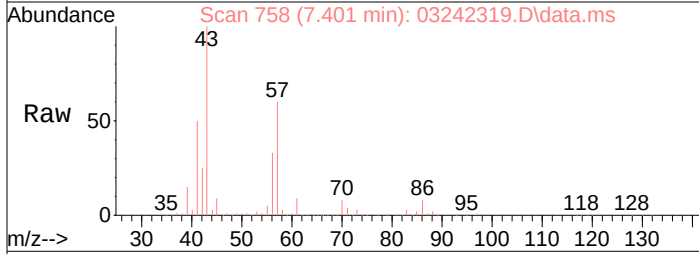
Tgt Ion:	61	Resp:	114634
Ion Ratio	Lower	Upper	
61	100		
70	88.0	65.6	105.6





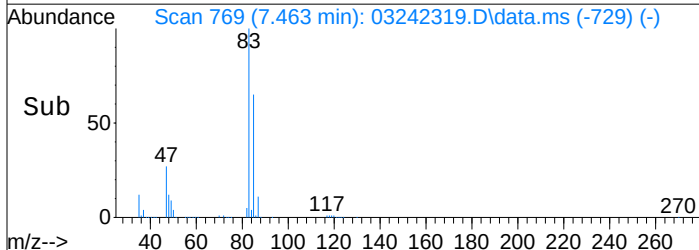
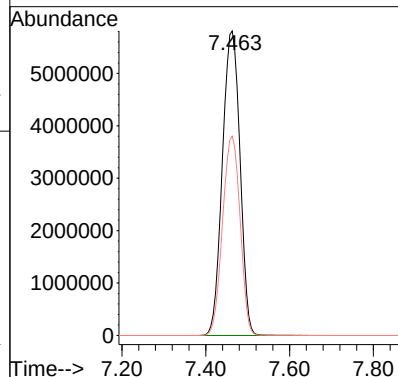
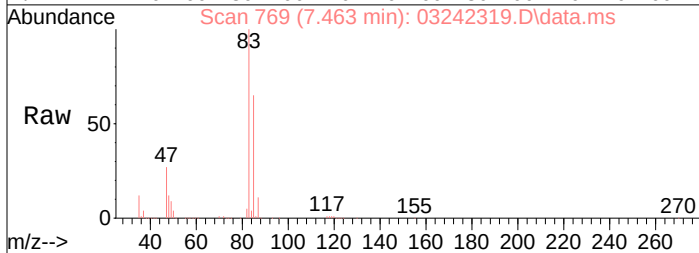
#31
n-Hexane
Concen: 23.34 ng
RT: 7.40 min Scan# 758
Delta R.T. 0.011 min
Lab File: 03242319.D
Acq: 24 Mar 2023 17:22

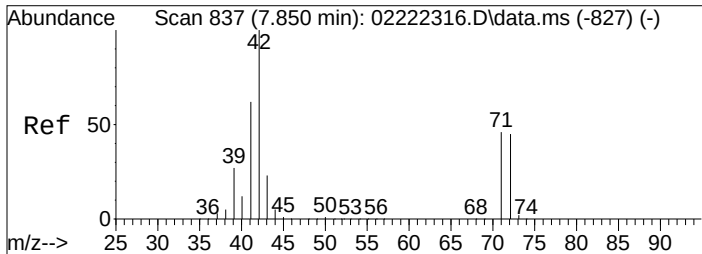
Tgt Ion: 57 Resp: 779613
Ion Ratio Lower Upper
57 100
56 54.6 44.0 66.0
86 13.8 11.5 17.3



#32
Chloroform
Concen: 428.88 ng
RT: 7.46 min Scan# 769
Delta R.T. -0.023 min
Lab File: 03242319.D
Acq: 24 Mar 2023 17:22

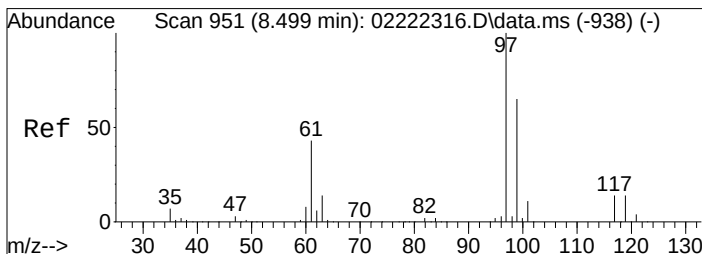
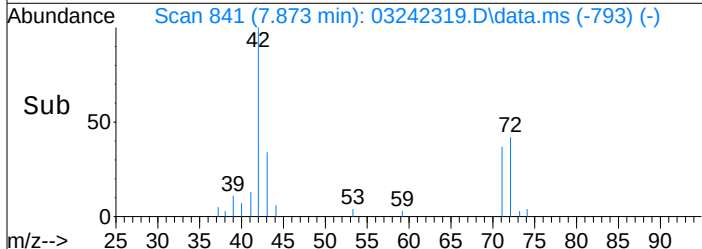
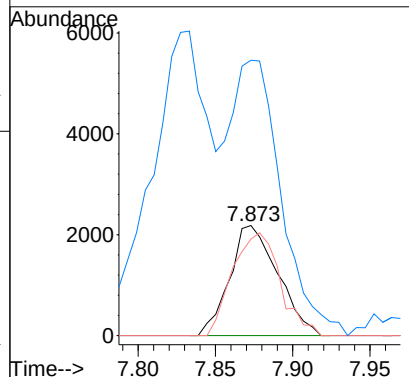
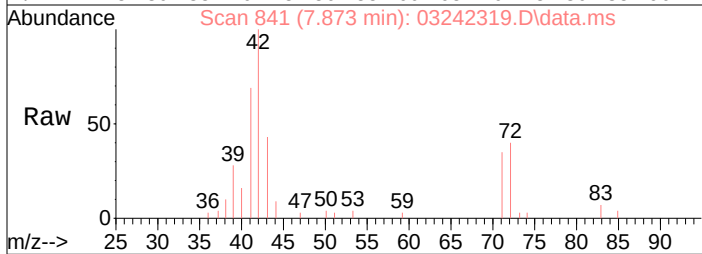
Tgt Ion: 83 Resp: 16945415
Ion Ratio Lower Upper
83 100
85 65.2 45.0 85.0





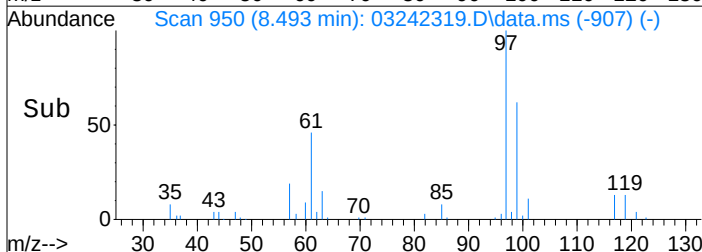
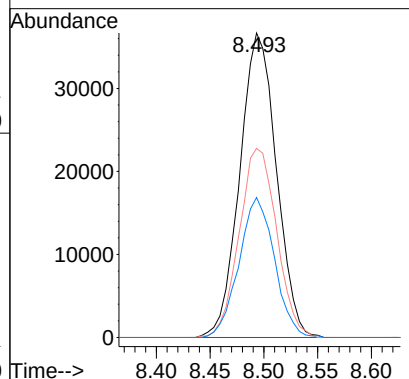
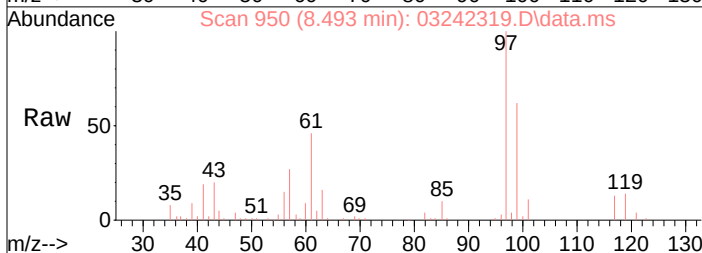
#34
 Tetrahydrofuran (THF)
 Concen: 0.35 ng
 RT: 7.87 min Scan# 841
 Delta R.T. 0.023 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 17:22

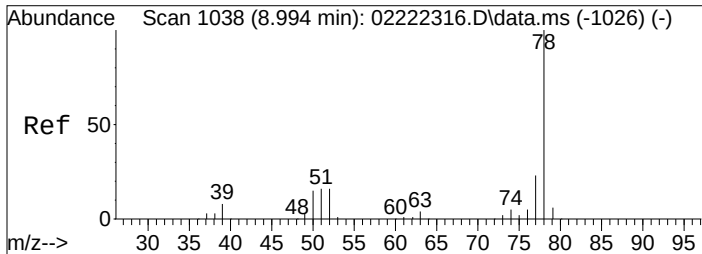
Tgt Ion:	72	Resp:	4742
Ion Ratio		Lower	Upper
72	100		
71	92.3	79.8	119.8
42	248.5	199.0	239.0#



#38
 1,1,1-Trichloroethane
 Concen: 2.45 ng
 RT: 8.49 min Scan# 950
 Delta R.T. -0.006 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 17:22

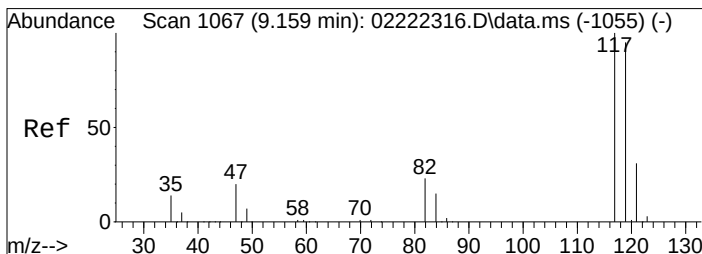
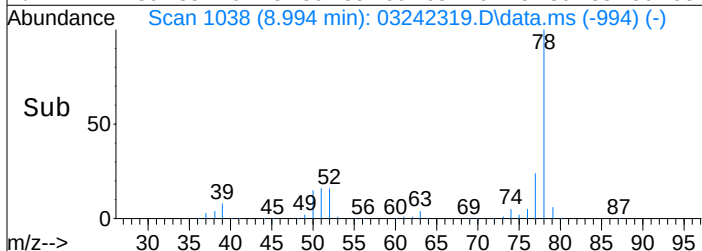
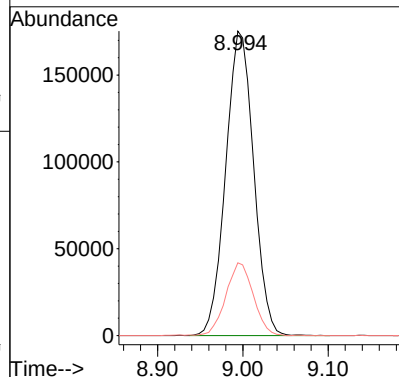
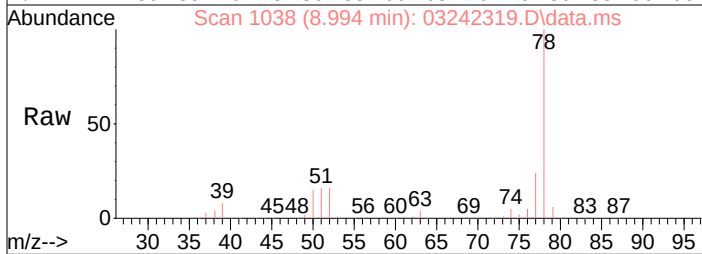
Tgt Ion:	97	Resp:	86953
Ion Ratio		Lower	Upper
97	100		
99	63.6	44.9	84.9
61	44.6	23.5	63.5





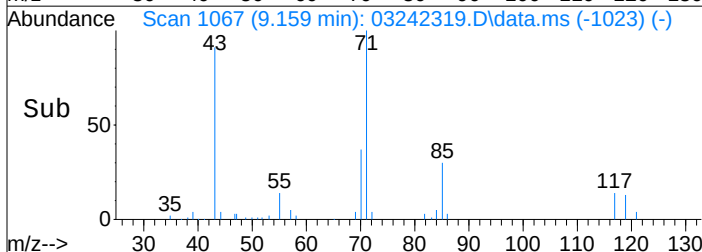
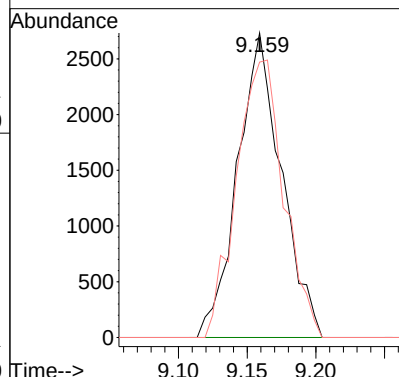
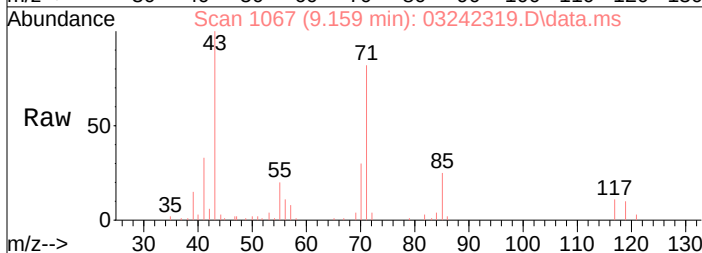
#41
Benzene
Concen: 4.78 ng
RT: 8.99 min Scan# 1038
Delta R.T. -0.000 min
Lab File: 03242319.D
Acq: 24 Mar 2023 17:22

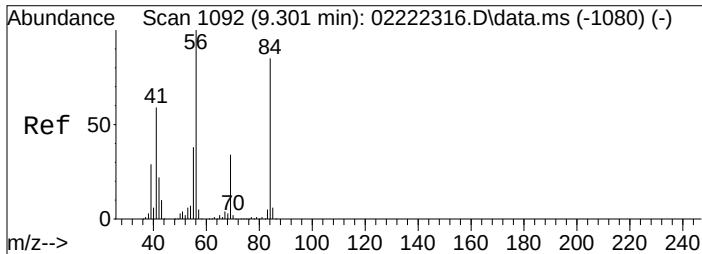
Tgt Ion	Resp	Lower	Upper
78	398877		
77	23.5	3.7	43.7



#42
Carbon Tetrachloride
Concen: 0.19 ng
RT: 9.16 min Scan# 1067
Delta R.T. -0.000 min
Lab File: 03242319.D
Acq: 24 Mar 2023 17:22

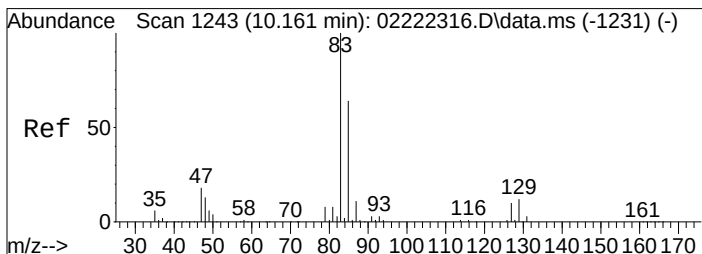
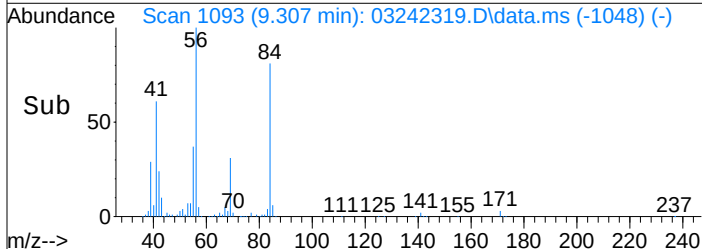
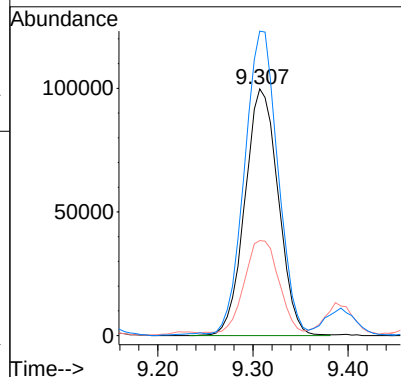
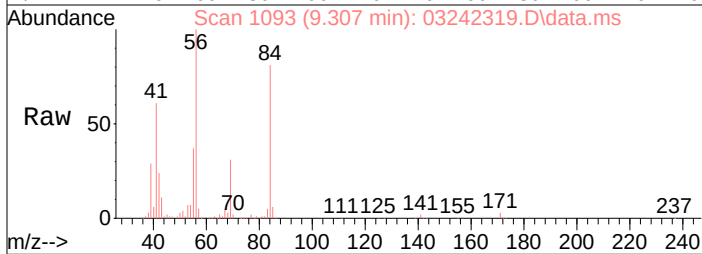
Tgt Ion	Resp	Lower	Upper
117	6066		
119	98.3	75.7	115.7





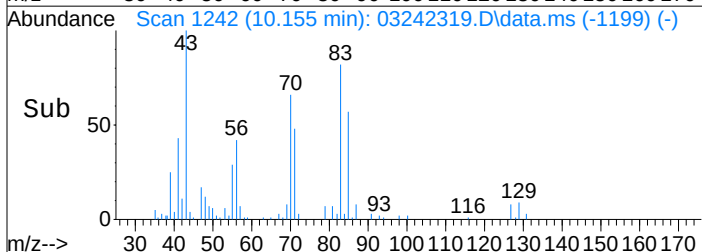
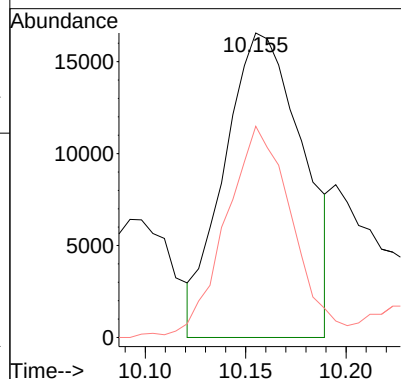
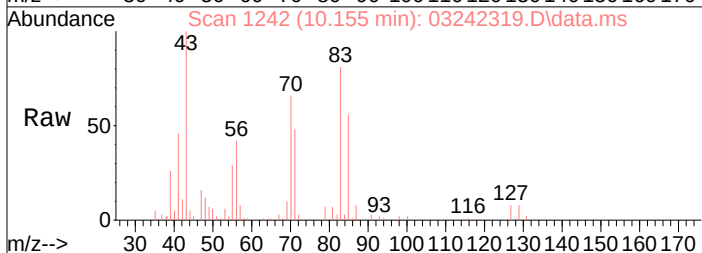
#43
Cyclohexane
Concen: 7.96 ng
RT: 9.31 min Scan# 1093
Delta R.T. 0.006 min
Lab File: 03242319.D
Acq: 24 Mar 2023 17:22

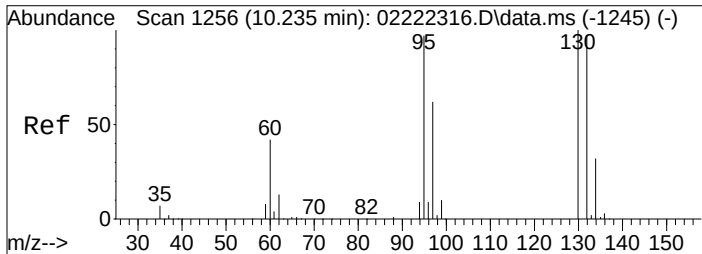
Tgt Ion:	84	Resp:	243551
Ion Ratio		Lower	Upper
84	100		
69	37.6	20.0	60.0
56	124.4	98.5	138.5



#46
Bromodichloromethane
Concen: 1.46 ng m
RT: 10.15 min Scan# 1242
Delta R.T. -0.006 min
Lab File: 03242319.D
Acq: 24 Mar 2023 17:22

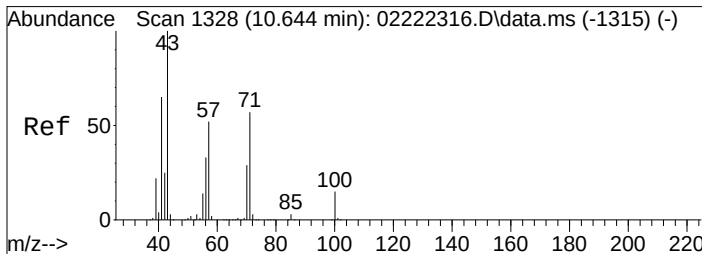
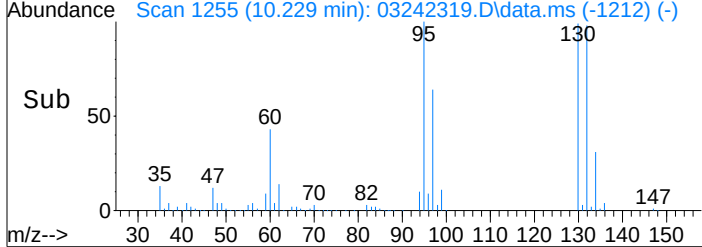
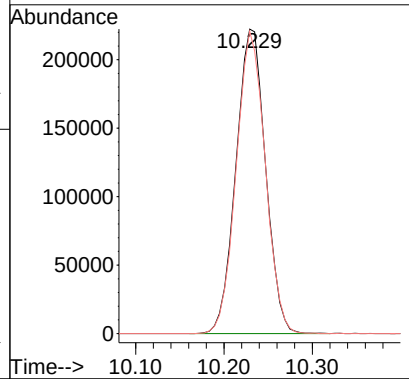
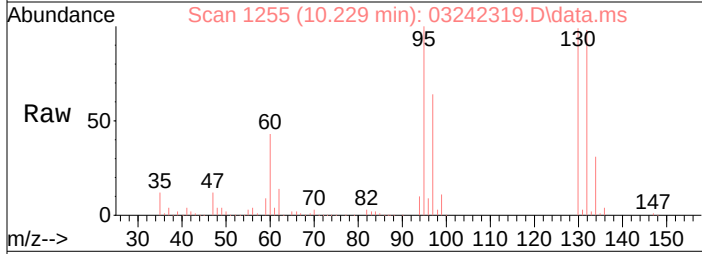
Tgt Ion:	83	Resp:	45072
Ion Ratio		Lower	Upper
83	100		
85	58.7	44.0	84.0





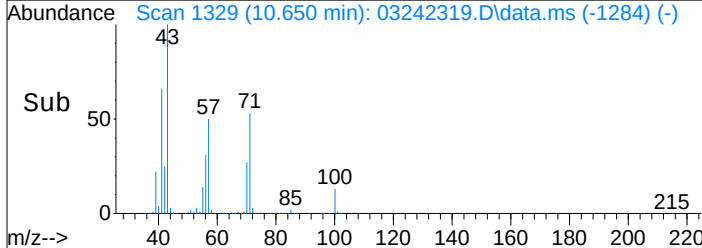
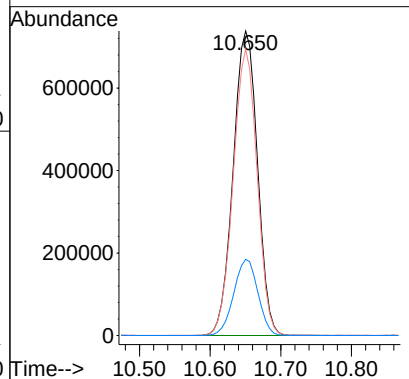
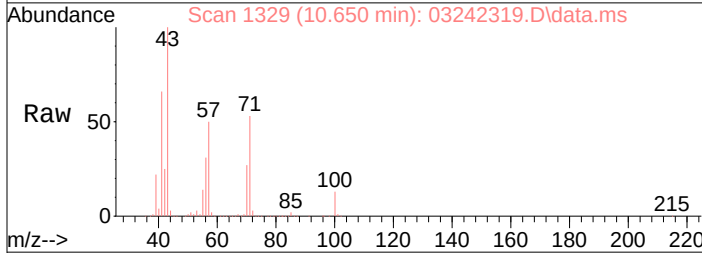
#47
 Trichloroethene
 Concen: 21.17 ng
 RT: 10.23 min Scan# 1255
 Delta R.T. -0.006 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 17:22

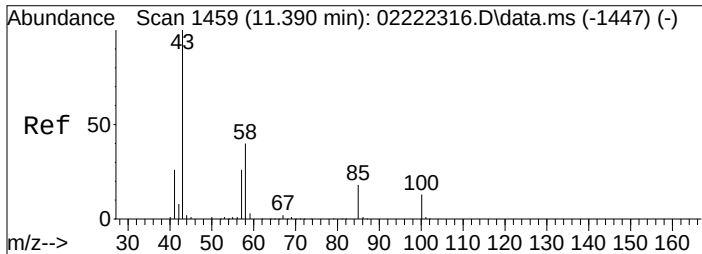
Tgt Ion:	130	Resp:	517646
Ion Ratio		Lower	Upper
130	100		
132	97.2	76.3	116.3



#51
 n-Heptane
 Concen: 87.25 ng
 RT: 10.65 min Scan# 1329
 Delta R.T. 0.006 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 17:22

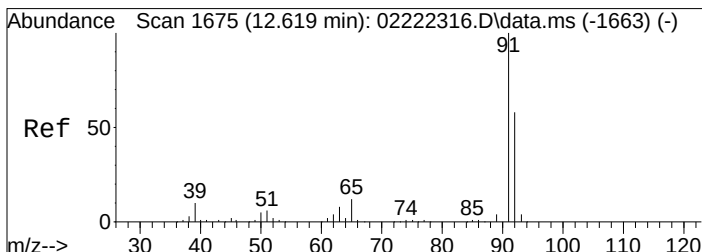
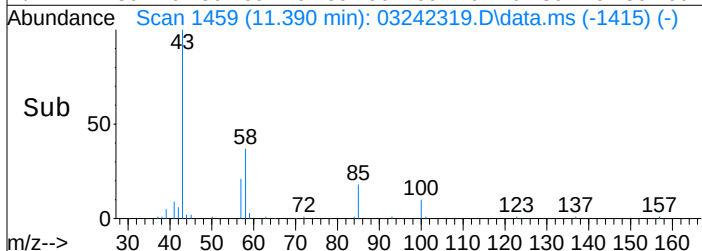
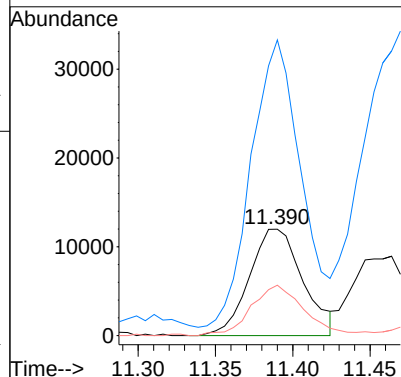
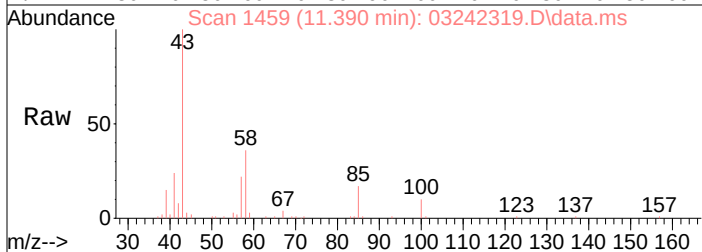
Tgt Ion:	71	Resp:	1761835
Ion Ratio		Lower	Upper
71	100		
57	92.6	71.7	111.7
100	24.9	5.8	45.8





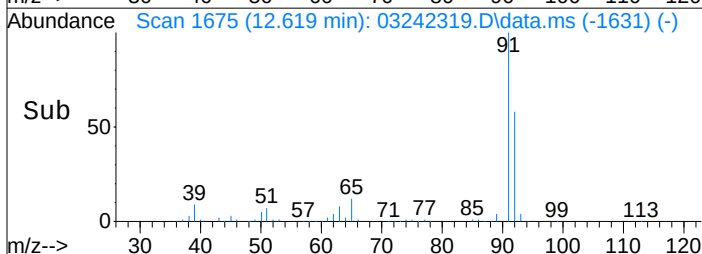
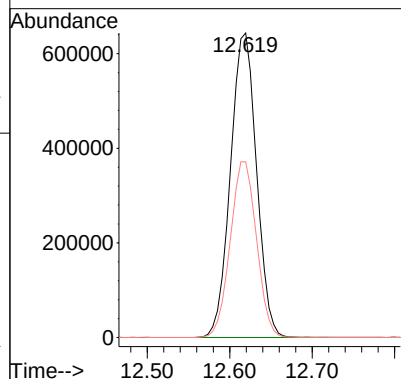
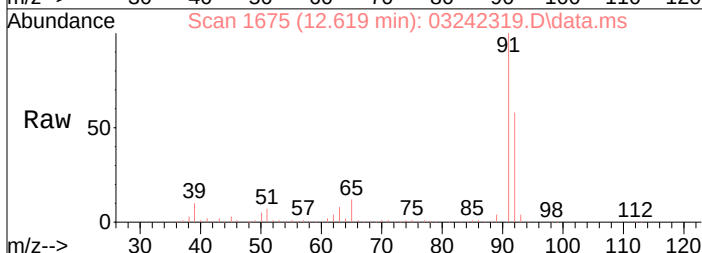
#53
 4-Methyl-2-pentanone
 Concen: 1.61 ng
 RT: 11.39 min Scan# 1459
 Delta R.T. -0.000 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 17:22

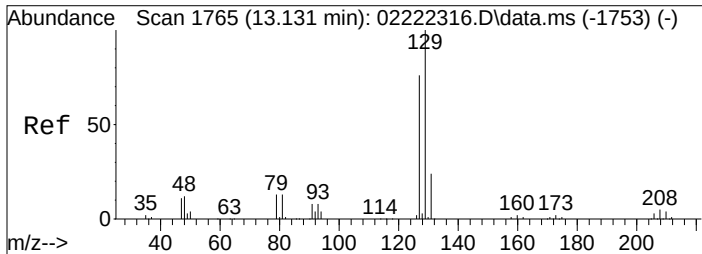
Tgt Ion: 58	Resp: 28931
Ion Ratio	Lower Upper
58	100
85	47.7 38.6 58.0
43	261.7 202.2 303.2



#58
 Toluene
 Concen: 13.11 ng
 RT: 12.62 min Scan# 1675
 Delta R.T. -0.000 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 17:22

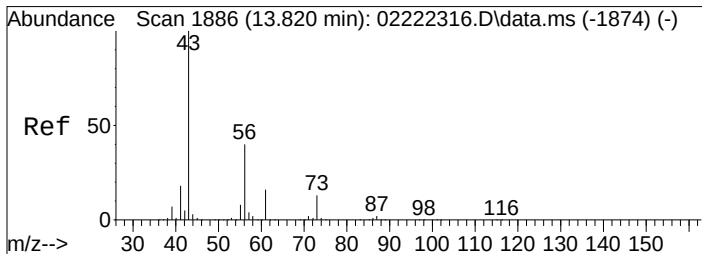
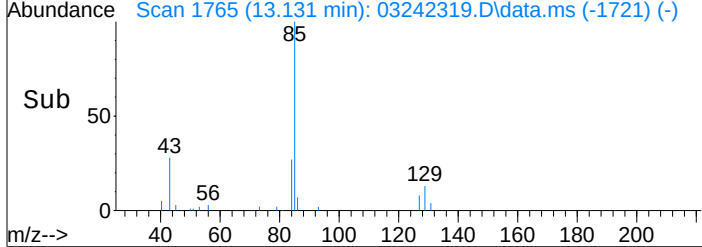
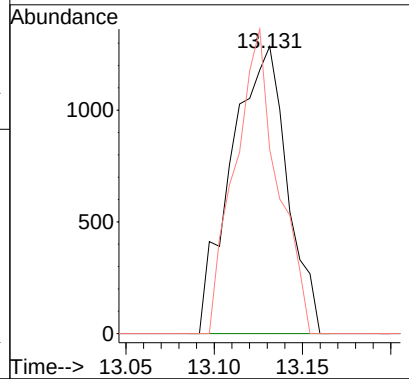
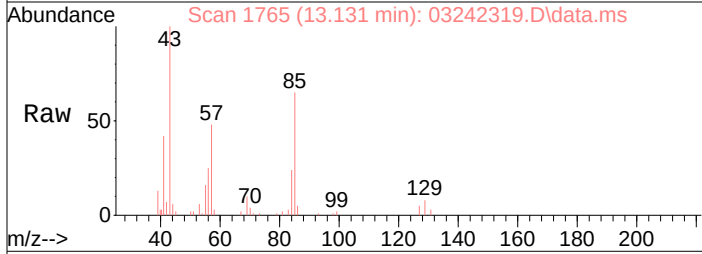
Tgt Ion: 91	Resp: 1414116
Ion Ratio	Lower Upper
91	100
92	58.2 38.0 78.0





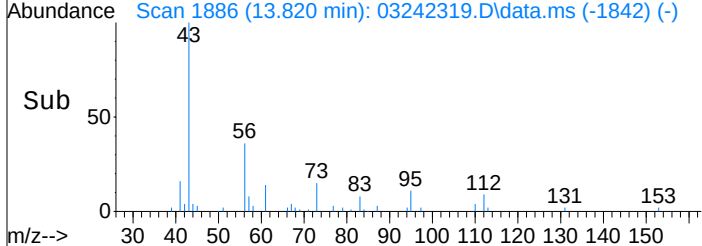
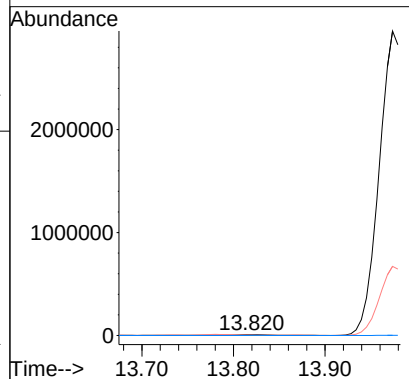
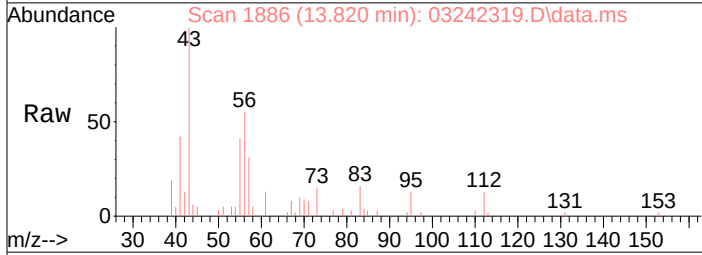
#60
 Dibromochloromethane
 Concen: 0.09 ng
 RT: 13.13 min Scan# 1765
 Delta R.T. -0.000 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 17:22

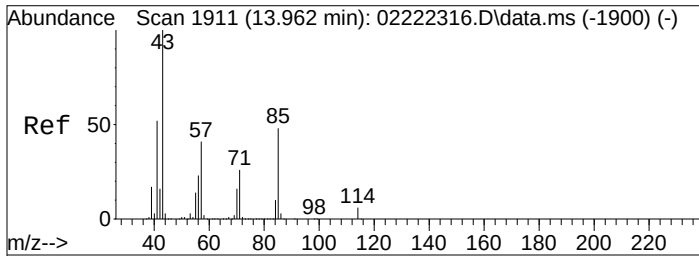
Tgt Ion:	129	Resp:	2819
Ion Ratio	Lower	Upper	
129	100		
127	80.9	57.1	97.1



#62
 n-Butyl Acetate
 Concen: 0.35 ng
 RT: 13.82 min Scan# 1886
 Delta R.T. -0.000 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 17:22

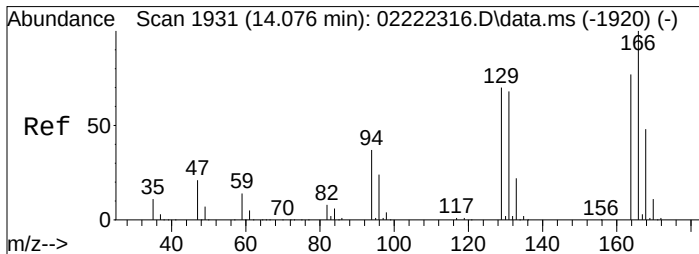
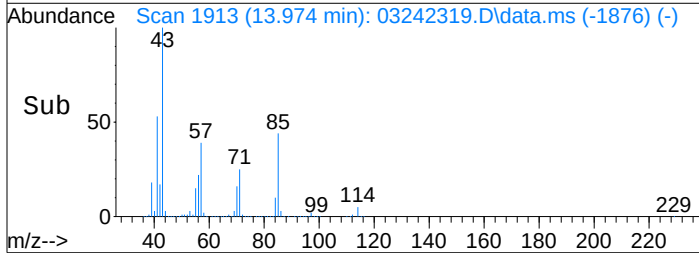
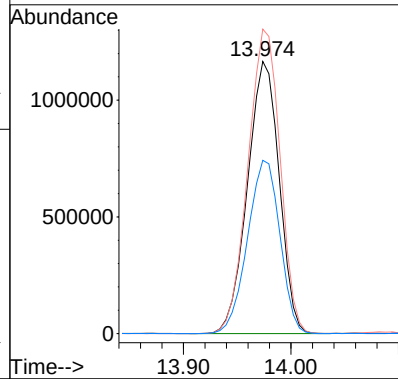
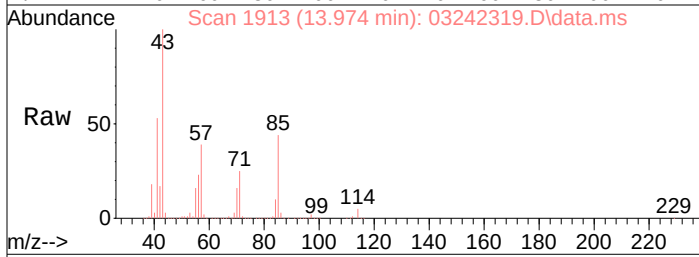
Tgt Ion:	43	Resp:	20889
Ion Ratio	Lower	Upper	
43	100		
56	145.1	20.0	60.0#
73	12.4	0.0	33.2





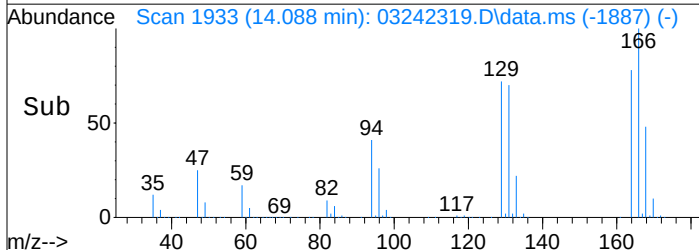
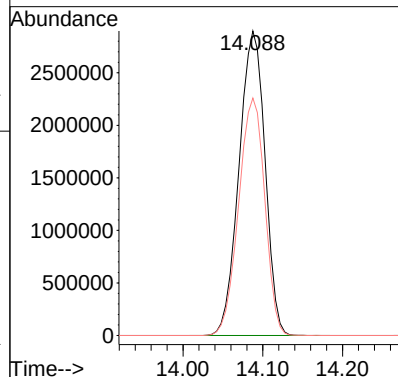
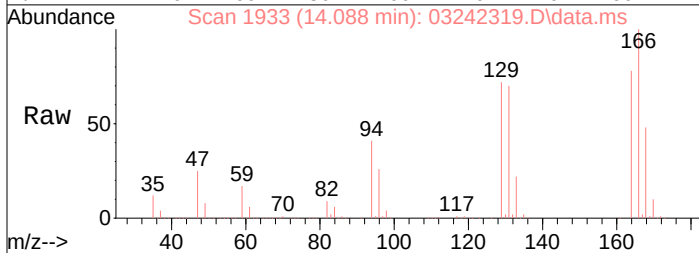
#63
n-Octane
Concen: 113.05 ng
RT: 13.97 min Scan# 1913
Delta R.T. 0.011 min
Lab File: 03242319.D
Acq: 24 Mar 2023 17:22

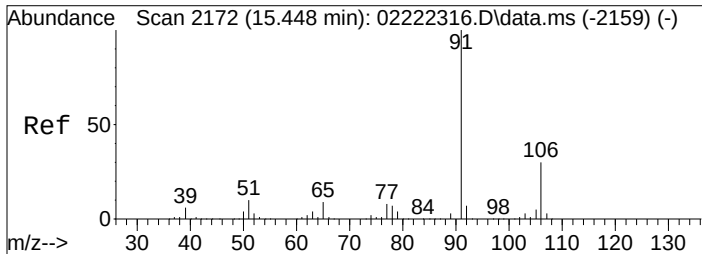
Tgt Ion: 57 Resp: 2397758
Ion Ratio Lower Upper
57 100
85 113.2 94.1 141.1
71 64.7 52.6 79.0



#64
Tetrachloroethene
Concen: 200.31 ng
RT: 14.09 min Scan# 1933
Delta R.T. 0.011 min
Lab File: 03242319.D
Acq: 24 Mar 2023 17:22

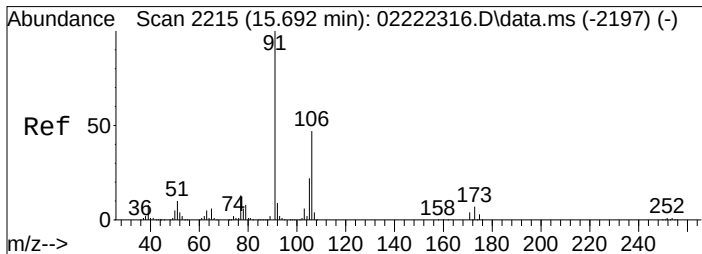
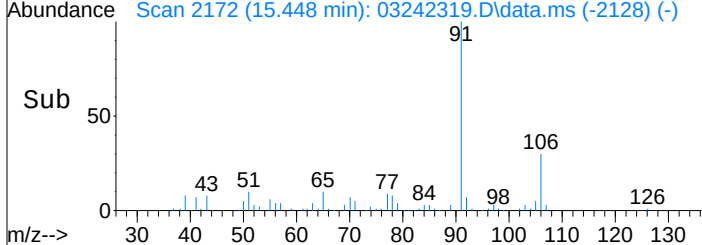
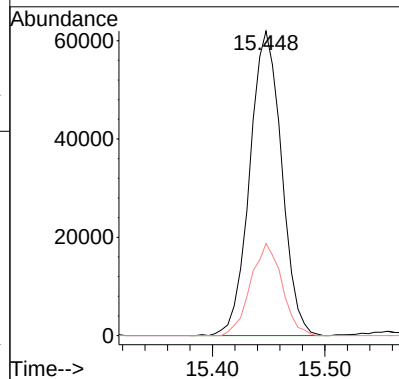
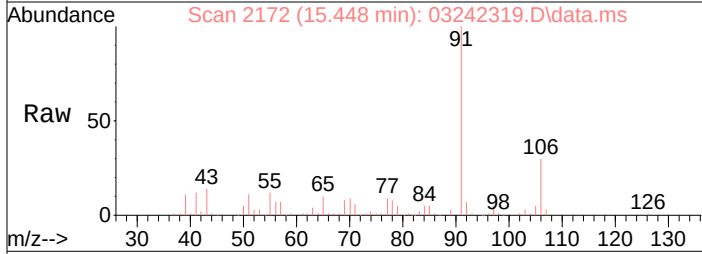
Tgt Ion: 166 Resp: 6572780
Ion Ratio Lower Upper
166 100
164 78.2 57.3 97.3





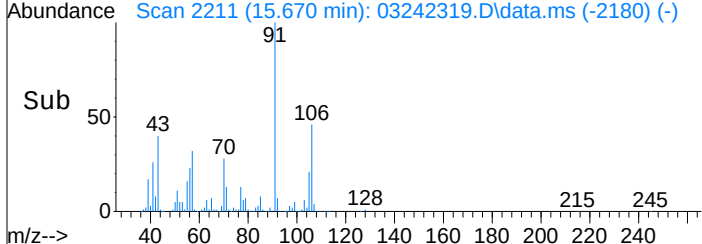
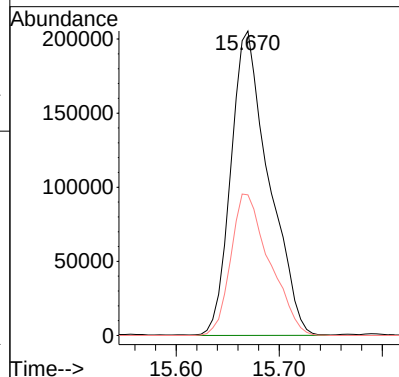
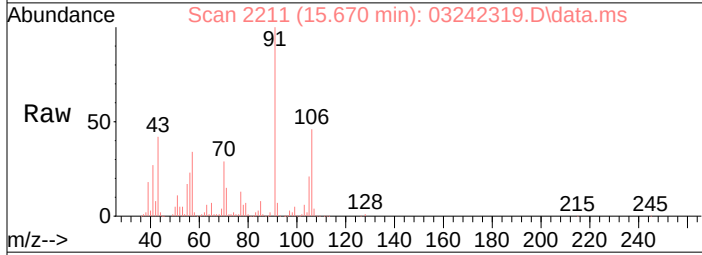
#66
 Ethylbenzene
 Concen: 0.95 ng
 RT: 15.45 min Scan# 2172
 Delta R.T. -0.000 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 17:22

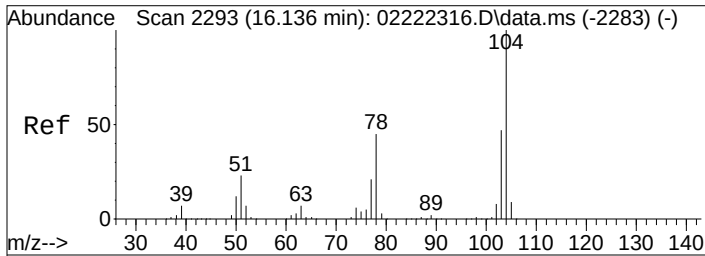
Tgt Ion:	91	Resp:	121967
Ion Ratio	Lower	Upper	
91	100		
106	29.9	10.4	50.4



#67
 m- & p-Xylenes
 Concen: 5.08 ng
 RT: 15.67 min Scan# 2211
 Delta R.T. -0.023 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 17:22

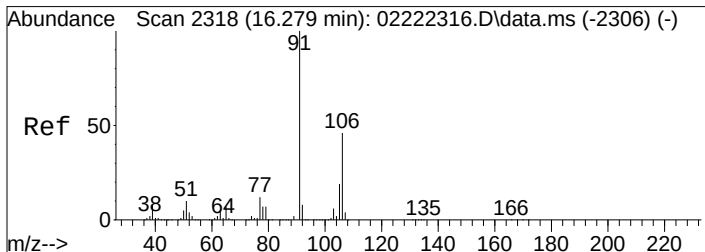
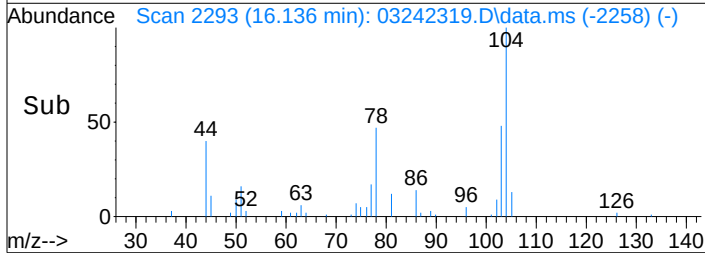
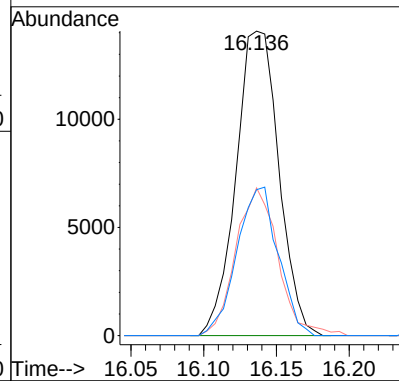
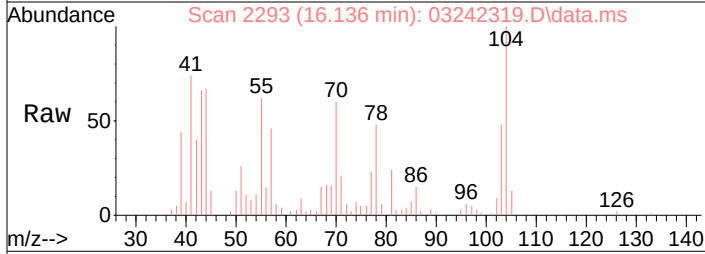
Tgt Ion:	91	Resp:	526407
Ion Ratio	Lower	Upper	
91	100		
106	47.4	26.2	66.2





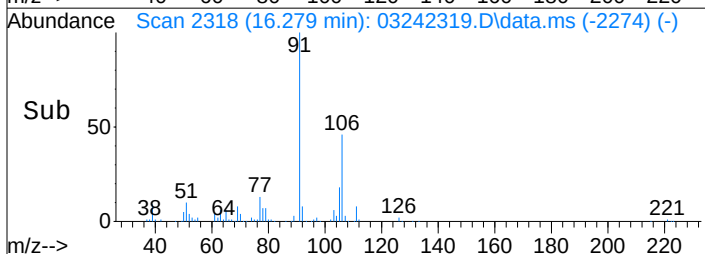
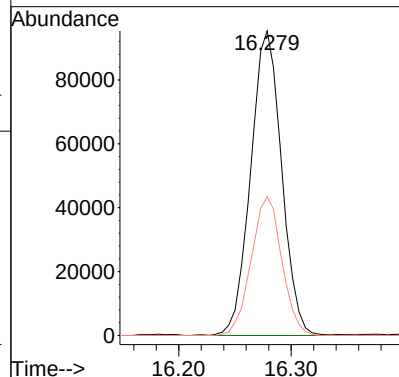
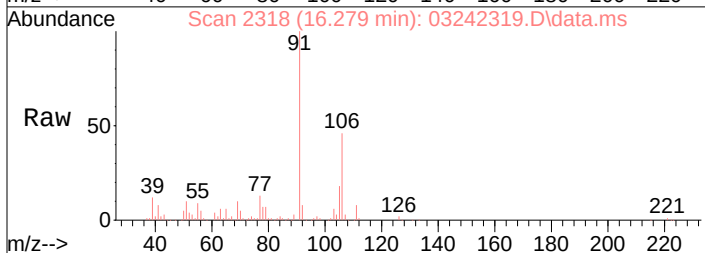
#69
Styrene
Concen: 0.41 ng
RT: 16.14 min Scan# 2293
Delta R.T. -0.000 min
Lab File: 03242319.D
Acq: 24 Mar 2023 17:22

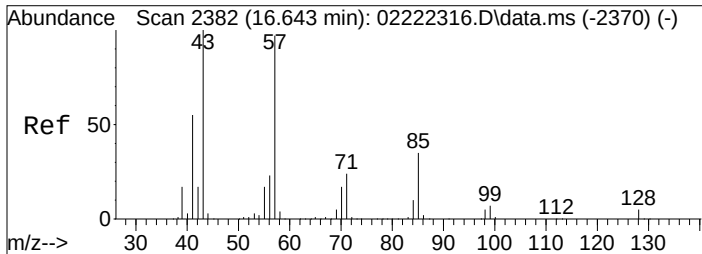
Tgt Ion	Ratio	Resp	Lower	Upper
104	100	28885		
78	47.9	24.7	64.7	
103	47.0	27.8	67.8	



#70
o-Xylene
Concen: 1.84 ng
RT: 16.28 min Scan# 2318
Delta R.T. -0.000 min
Lab File: 03242319.D
Acq: 24 Mar 2023 17:22

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	182418		
106	45.1	25.4	65.4	

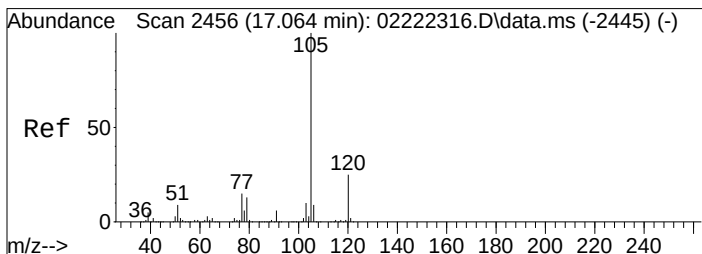
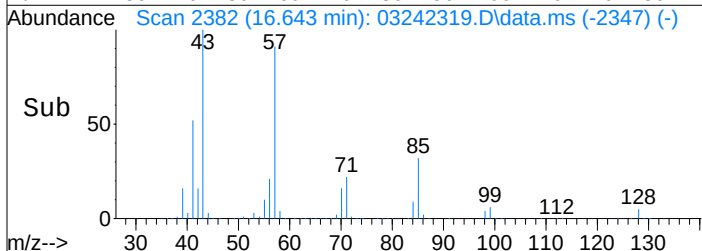
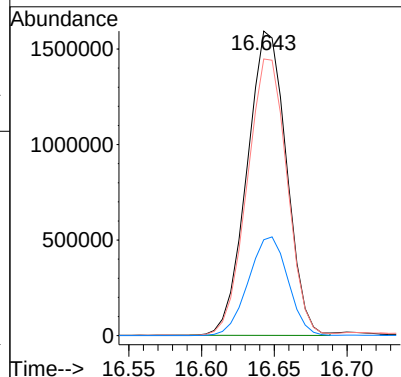
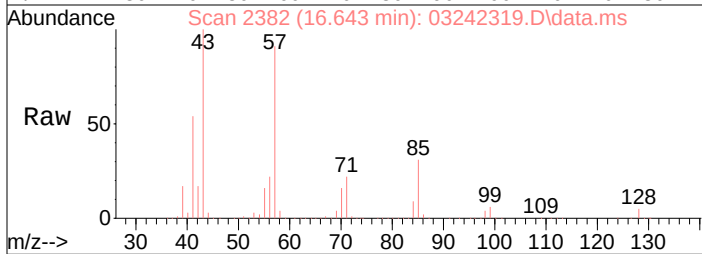




#71
n-Nonane
Concen: 62.72 ng
RT: 16.64 min Scan# 2382
Delta R.T. -0.000 min
Lab File: 03242319.D
Acq: 24 Mar 2023 17:22

Tgt Ion: 43 Resp: 3005529

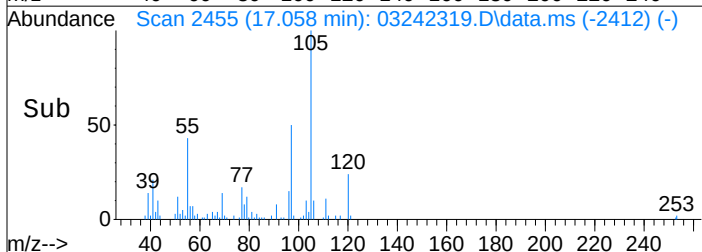
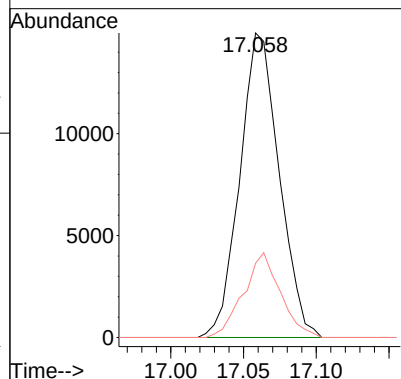
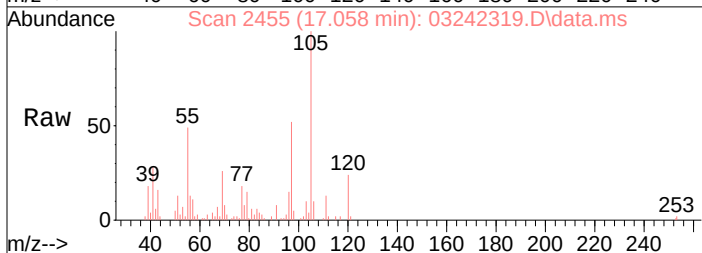
Ion	Ratio	Lower	Upper
43	100		
57	91.9	74.2	114.2
85	32.5	14.2	54.2

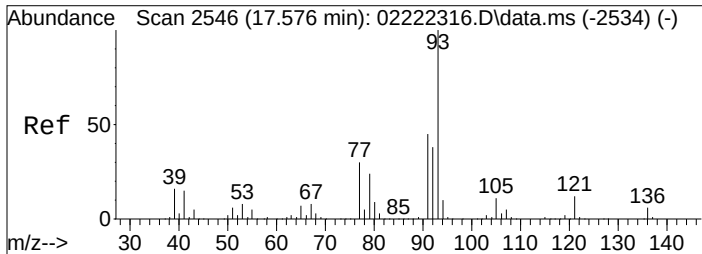


#74
Cumene
Concen: 0.23 ng
RT: 17.06 min Scan# 2455
Delta R.T. -0.006 min
Lab File: 03242319.D
Acq: 24 Mar 2023 17:22

Tgt Ion: 105 Resp: 28128

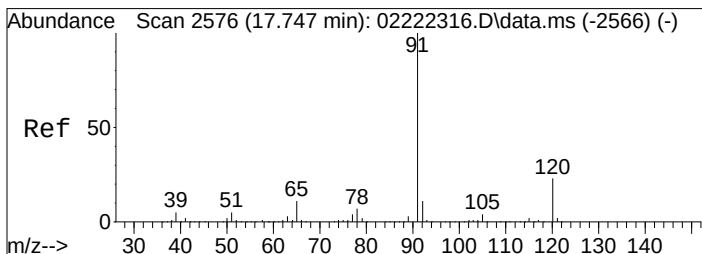
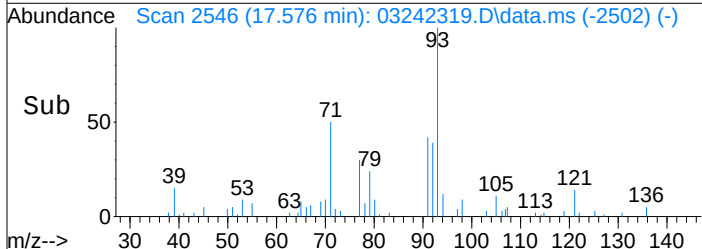
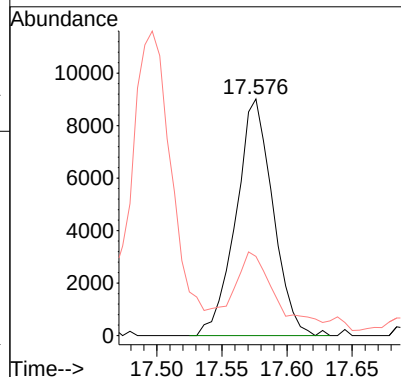
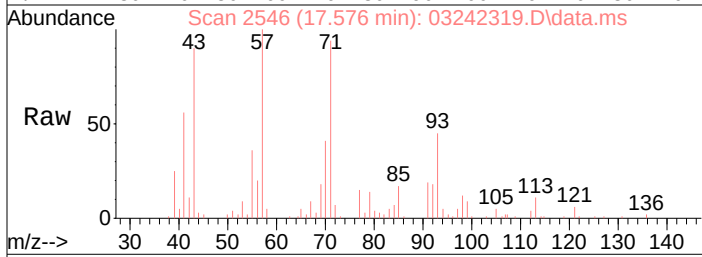
Ion	Ratio	Lower	Upper
105	100		
120	26.2	5.2	45.2





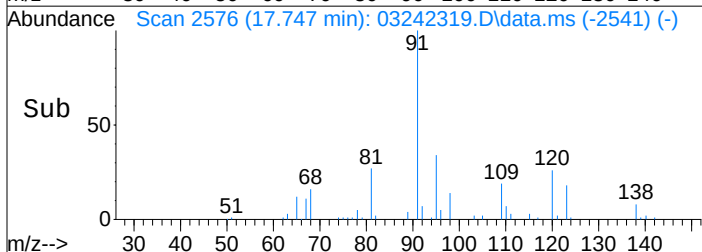
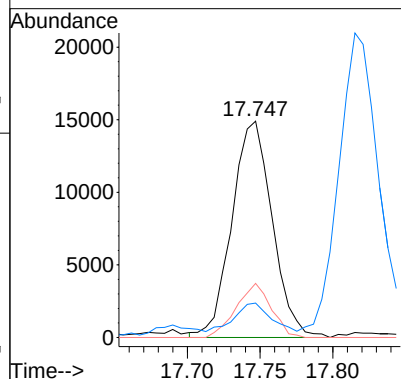
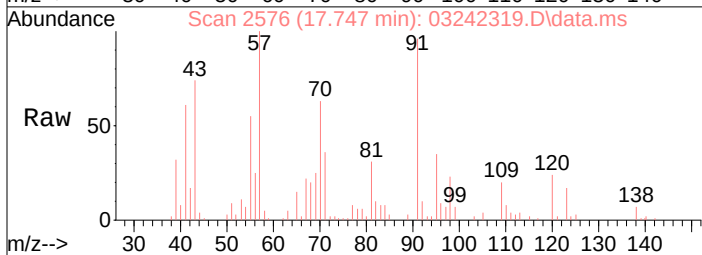
#75
 alpha-Pinene
 Concen: 0.32 ng
 RT: 17.58 min Scan# 2546
 Delta R.T. -0.000 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 17:22

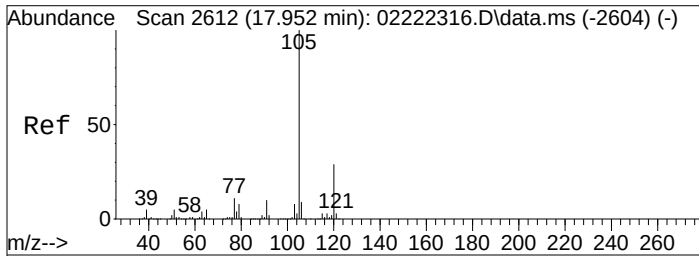
Tgt Ion: 93 Resp: 17808
 Ion Ratio Lower Upper
 93 100
 77 29.2 11.1 51.1



#76
 n-Propylbenzene
 Concen: 0.20 ng
 RT: 17.75 min Scan# 2576
 Delta R.T. -0.000 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 17:22

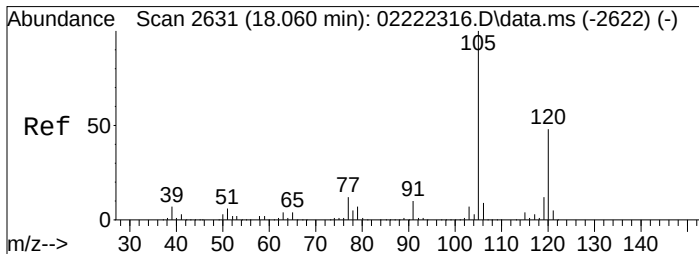
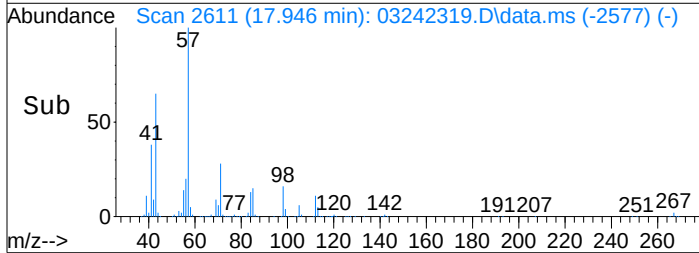
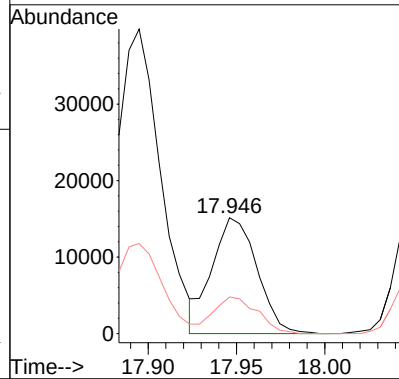
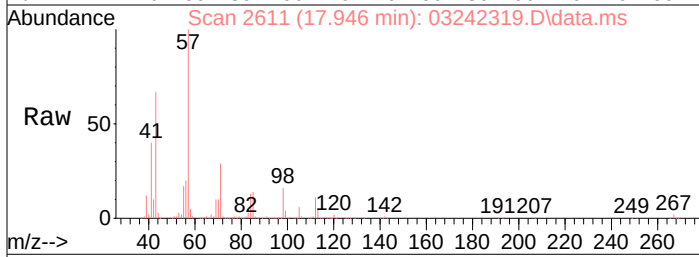
Tgt Ion: 91 Resp: 28792
 Ion Ratio Lower Upper
 91 100
 120 21.6 2.7 42.7
 65 11.4 0.0 30.7





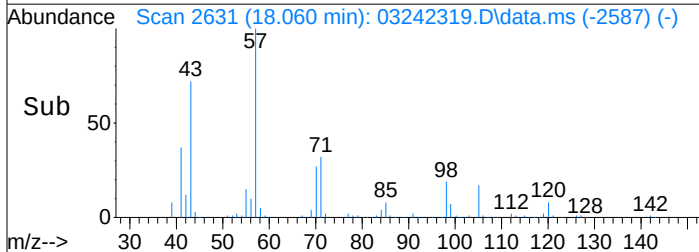
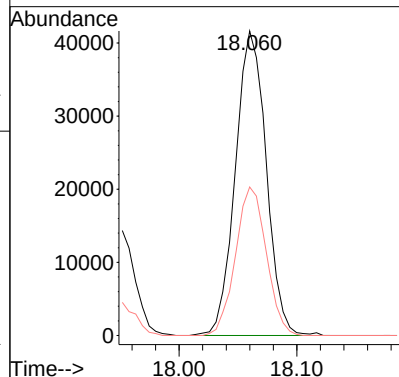
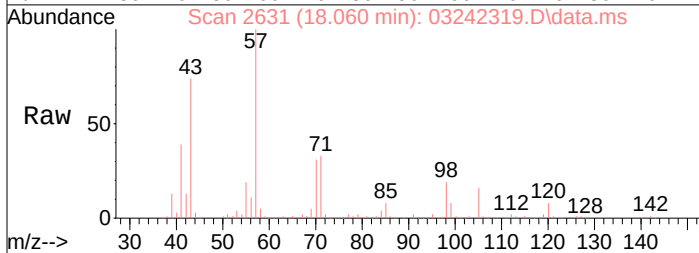
#78
4-Ethyltoluene
Concen: 0.23 ng
RT: 17.95 min Scan# 2611
Delta R.T. -0.006 min
Lab File: 03242319.D
Acq: 24 Mar 2023 17:22

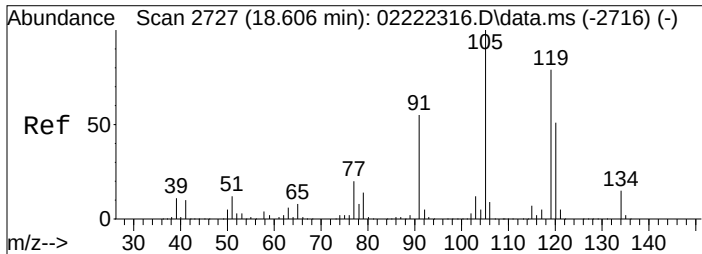
Tgt Ion:105 Resp: 26847
Ion Ratio Lower Upper
105 100
120 30.0 9.1 49.1



#79
1,3,5-Trimethylbenzene
Concen: 0.74 ng
RT: 18.06 min Scan# 2631
Delta R.T. -0.000 min
Lab File: 03242319.D
Acq: 24 Mar 2023 17:22

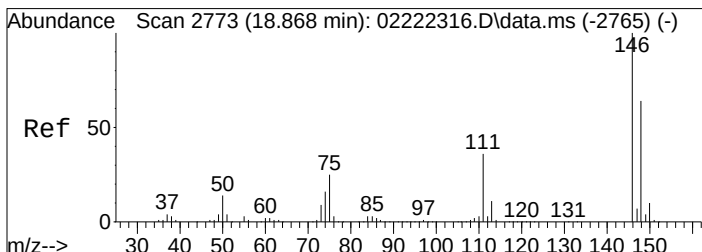
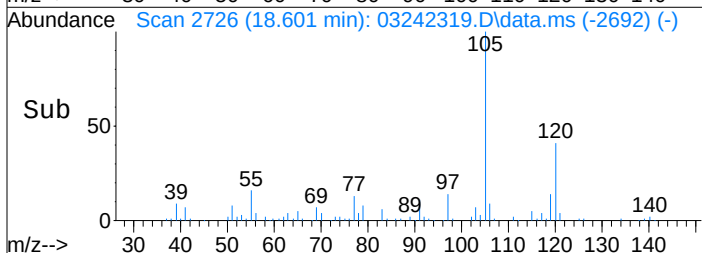
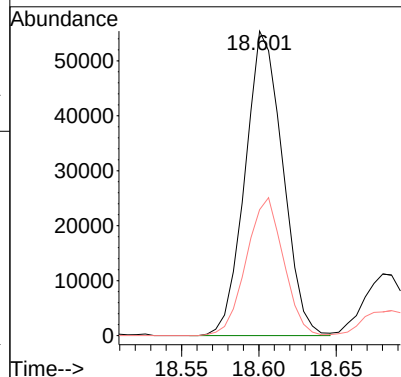
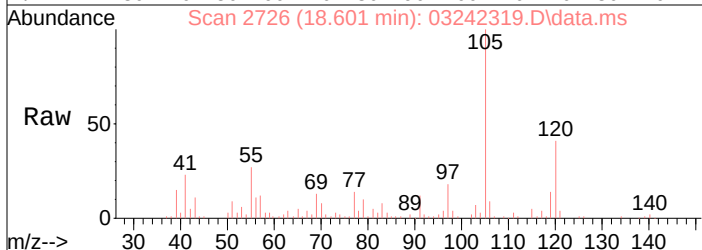
Tgt Ion:105 Resp: 75966
Ion Ratio Lower Upper
105 100
120 48.7 28.4 68.4





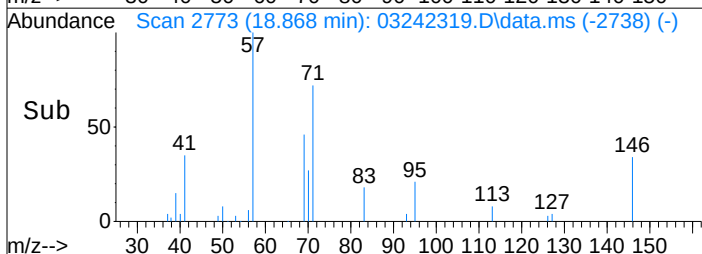
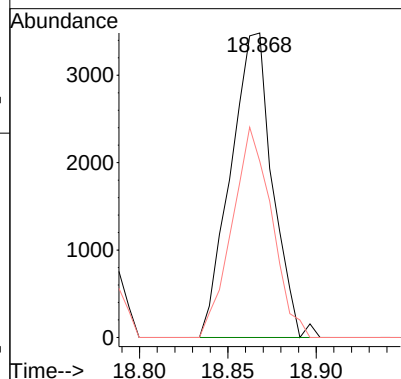
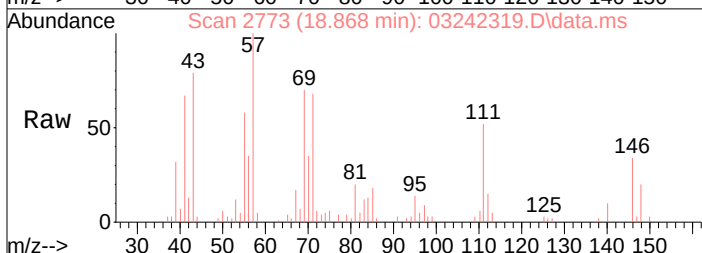
#82
 1,2,4-Trimethylbenzene
 Concen: 0.93 ng
 RT: 18.60 min Scan# 2726
 Delta R.T. -0.006 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 17:22

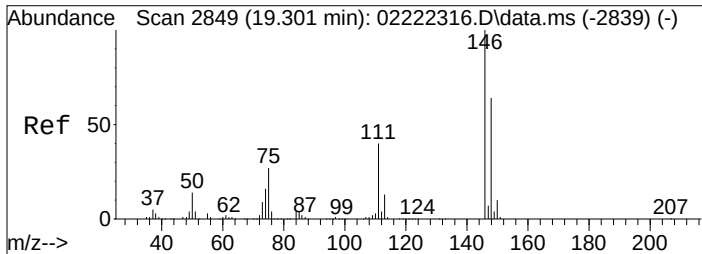
Tgt Ion	105	Resp	93969
Ion Ratio	Lower	Upper	
105	100		
120	44.8	32.8	72.8



#86
 1,4-Dichlorobenzene
 Concen: 0.09 ng
 RT: 18.87 min Scan# 2773
 Delta R.T. -0.000 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 17:22

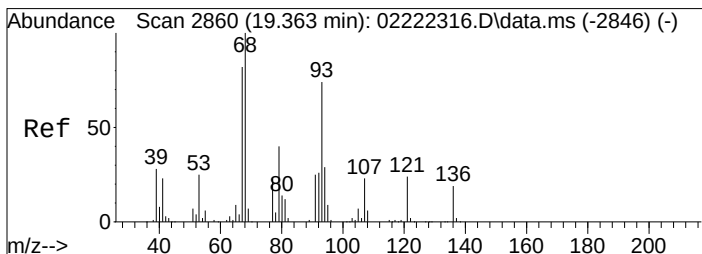
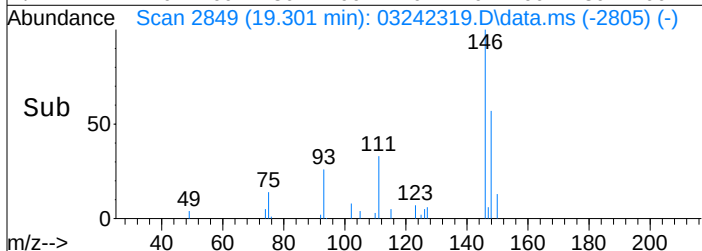
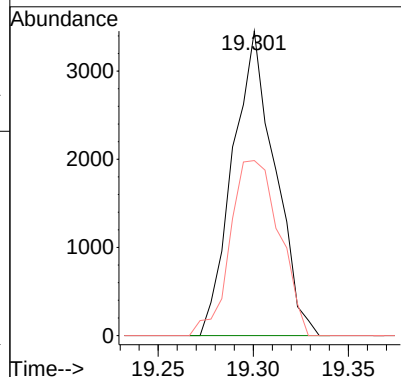
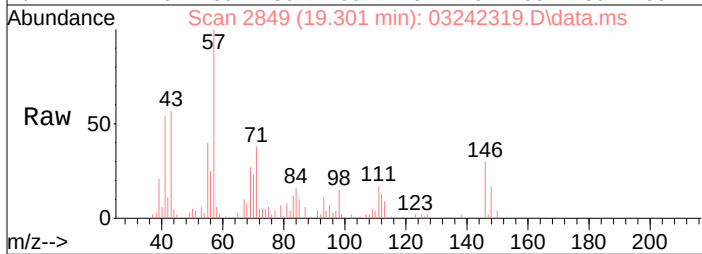
Tgt Ion	146	Resp	5739
Ion Ratio	Lower	Upper	
146	100		
148	65.7	44.7	84.7





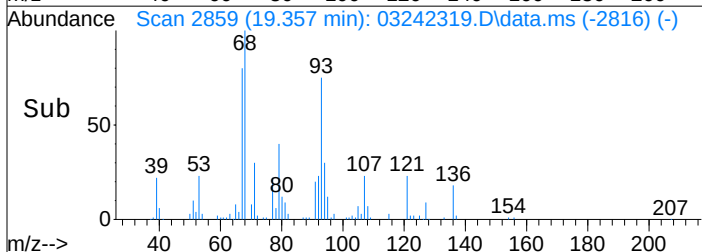
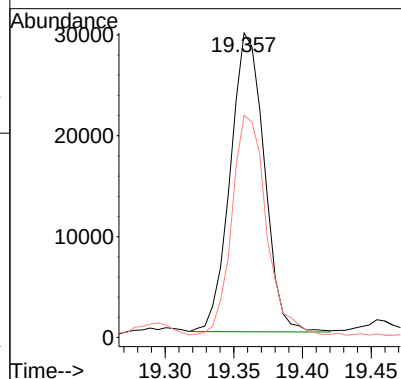
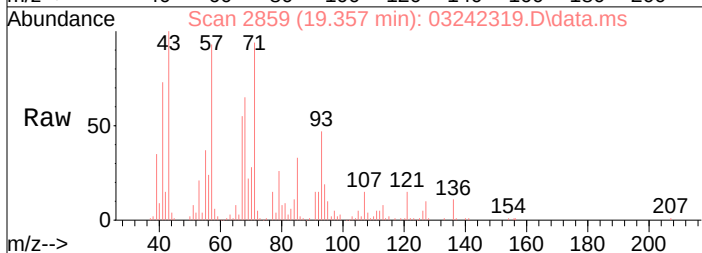
#90
 1,2-Dichlorobenzene
 Concen: 0.09 ng
 RT: 19.30 min Scan# 2849
 Delta R.T. -0.000 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 17:22

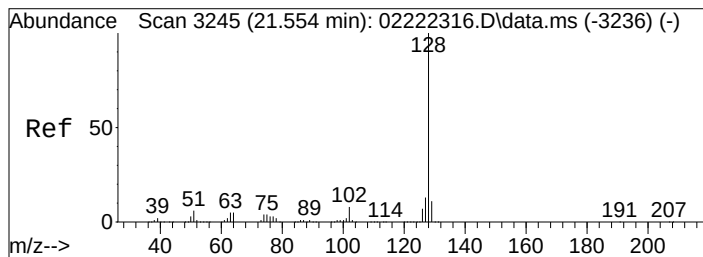
Tgt Ion: 146 Resp: 5337
 Ion Ratio Lower Upper
 146 100
 148 67.2 44.4 84.4



#91
 d-Limonene
 Concen: 1.49 ng
 RT: 19.36 min Scan# 2859
 Delta R.T. -0.006 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 17:22

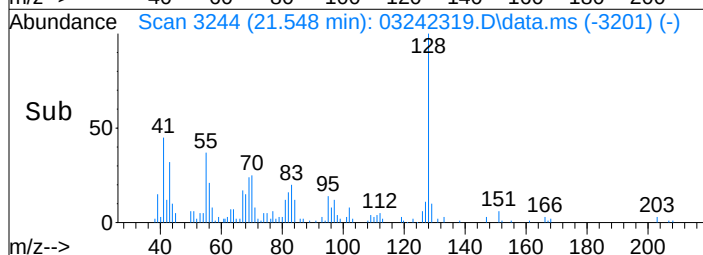
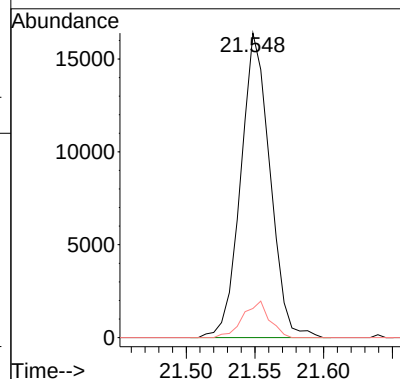
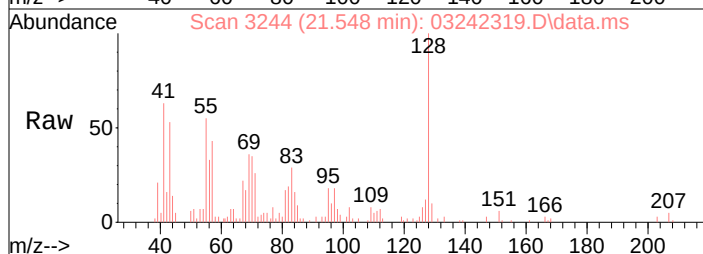
Tgt Ion: 68 Resp: 50895
 Ion Ratio Lower Upper
 68 100
 93 74.9 54.8 94.8





#95
 Naphthalene
 Concen: 0.22 ng
 RT: 21.55 min Scan# 3244
 Delta R.T. -0.006 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 17:22

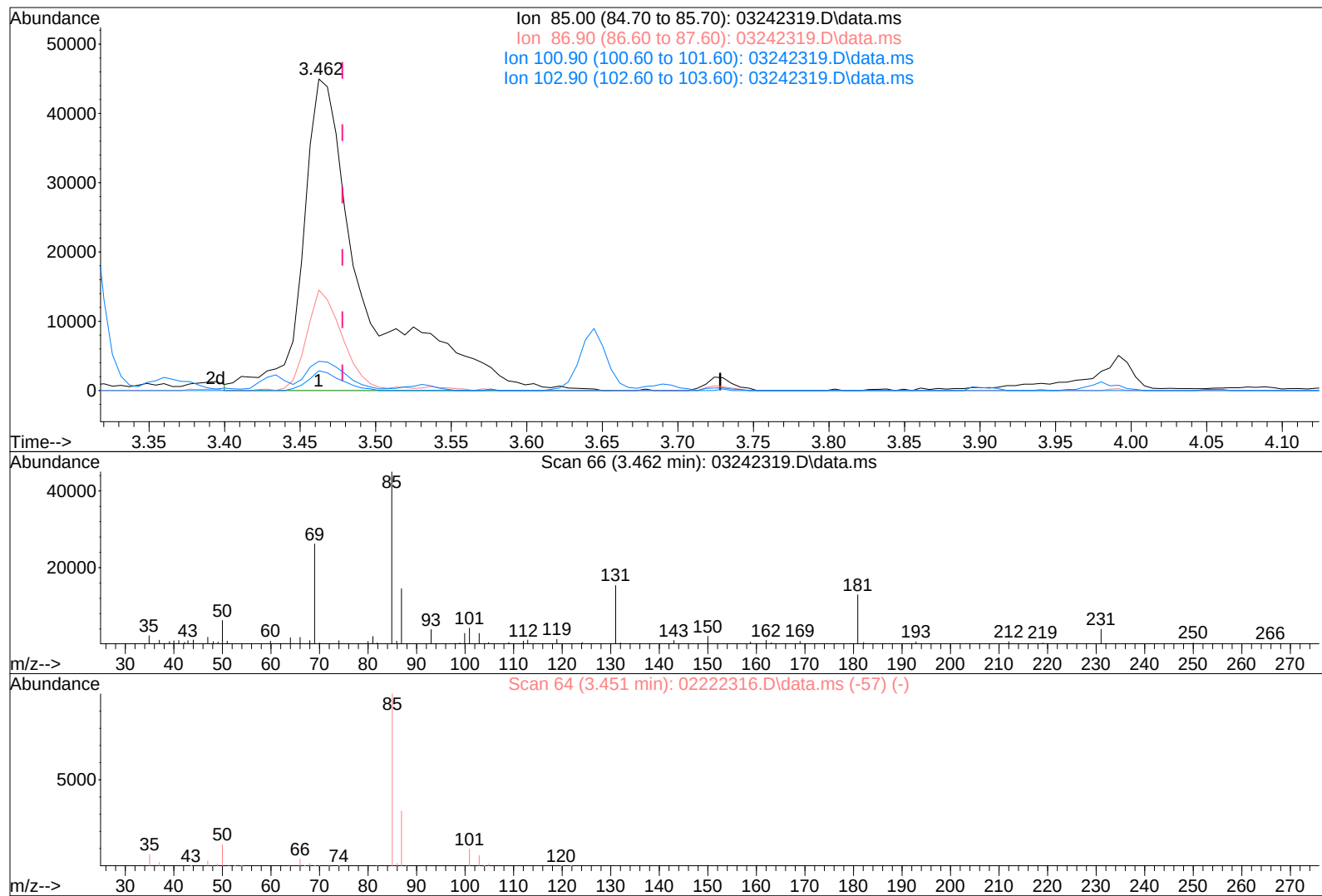
Tgt Ion:128 Resp: 24295
 Ion Ratio Lower Upper
 128 100
 129 10.8 0.0 30.9



Data File : I:\MS13\DATA\2023_03\24\03242319.D
Acq On : 24 Mar 2023 17:22
Sample : P2301250-014 (1000mL)
Misc : S35-01202301

Vial: 3
Operator: TZ
Inst : MS13

Quant Time: Mar 25 06:49:36 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



(3) Dichlorodifluoromethane (CFC 12) (T)

3.462min (-0.016) 2.86ng

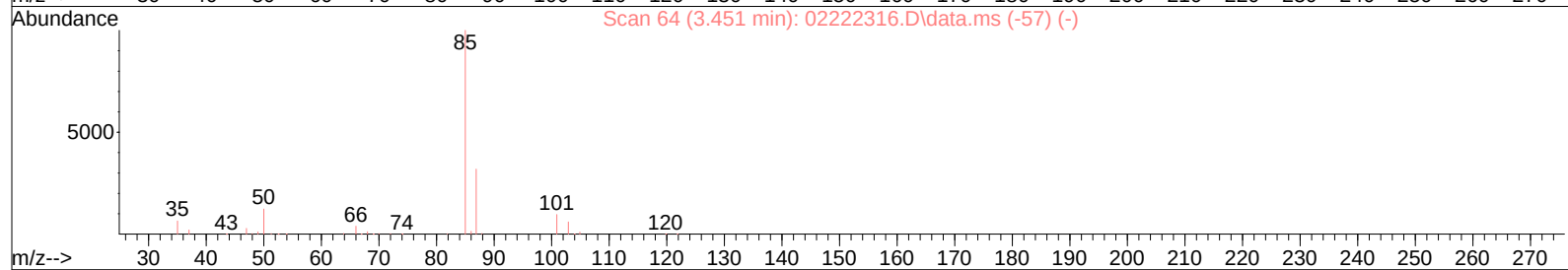
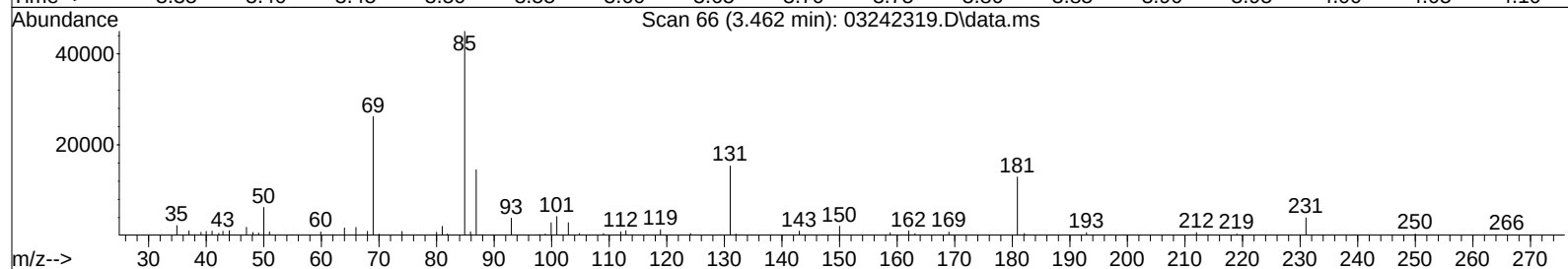
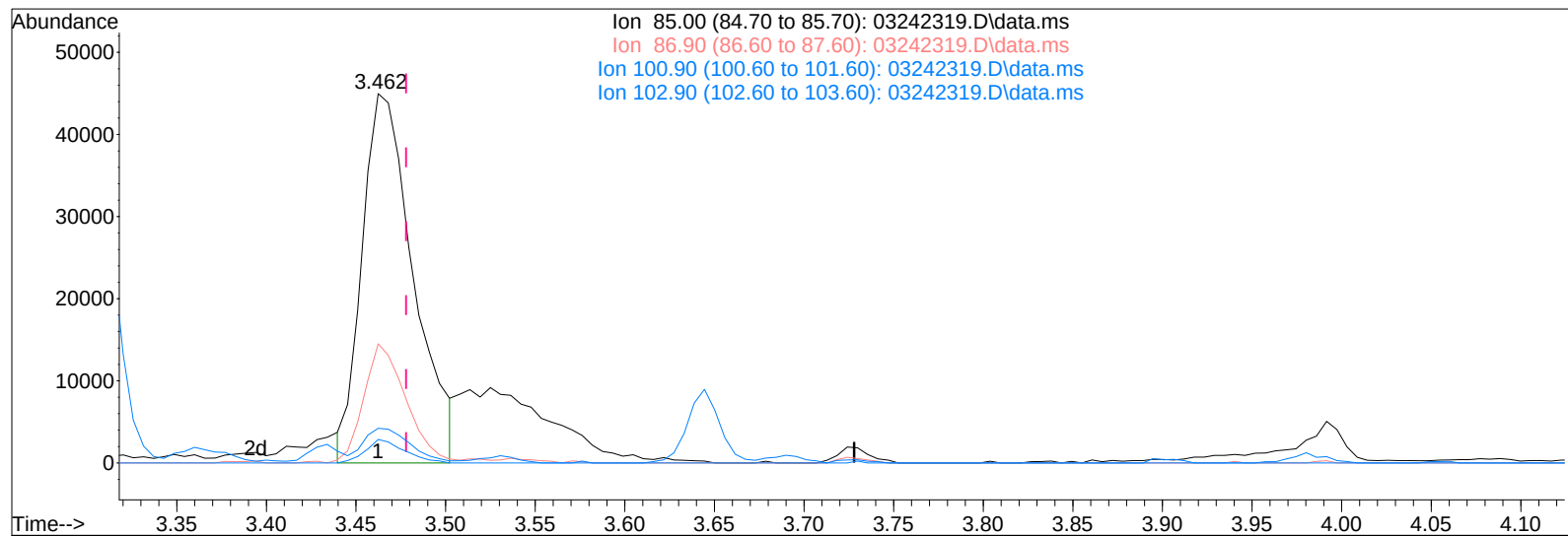
response 128349

Ion	Exp%	Act%
85.00	100	100
86.90	32.40	18.59
100.90	9.40	5.22
102.90	6.00	3.35

Data File : I:\MS13\DATA\2023_03\24\03242319.D
Acq On : 24 Mar 2023 17:22
Sample : P2301250-014 (1000mL)
Misc : S35-01202301

Vial: 3
Operator: TZ
Inst : MS13

Quant Time: Mar 25 06:49:36 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03242319.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

3.462min (-0.016) 2.00ng m

response 89635

Ion	Exp%	Act%
85.00	100	100
86.90	32.40	26.63
100.90	9.40	7.48
102.90	6.00	4.80

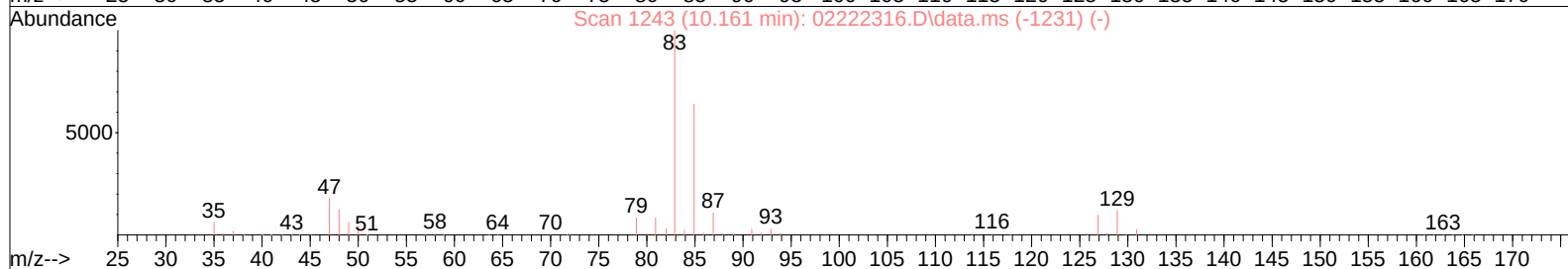
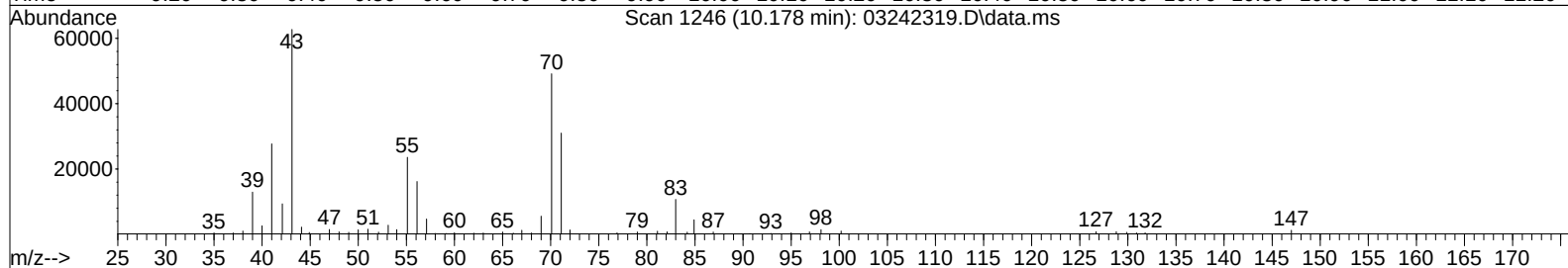
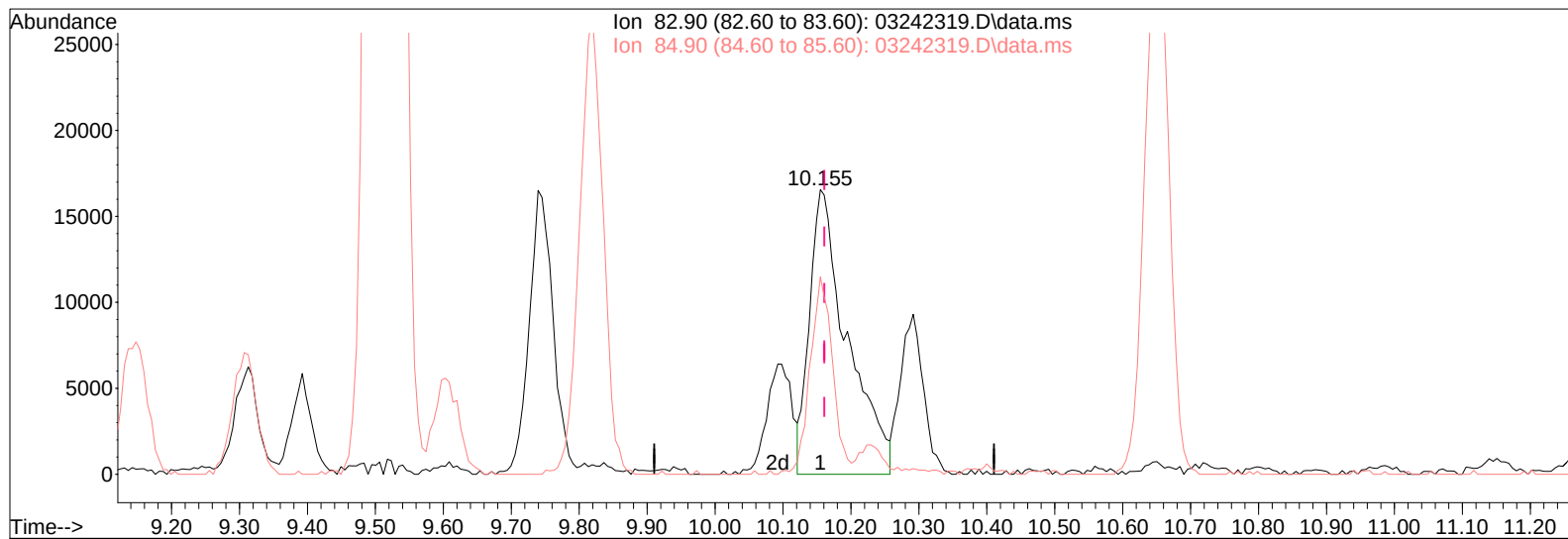
IPC

TZ 3/27/23

Data File : I:\MS13\DATA\2023_03\24\03242319.D
Acq On : 24 Mar 2023 17:22
Sample : P2301250-014 (1000mL)
Misc : S35-01202301

Vial: 3
Operator: TZ
Inst : MS13

Quant Time: Mar 27 12:23:46 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03242319.D\data.ms

(46) Bromodichloromethane (T)

10.155min (-0.006) 2.06ng

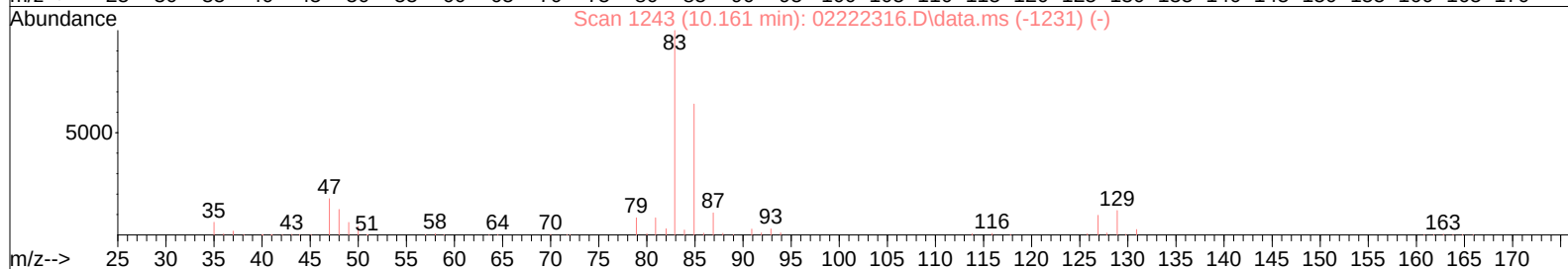
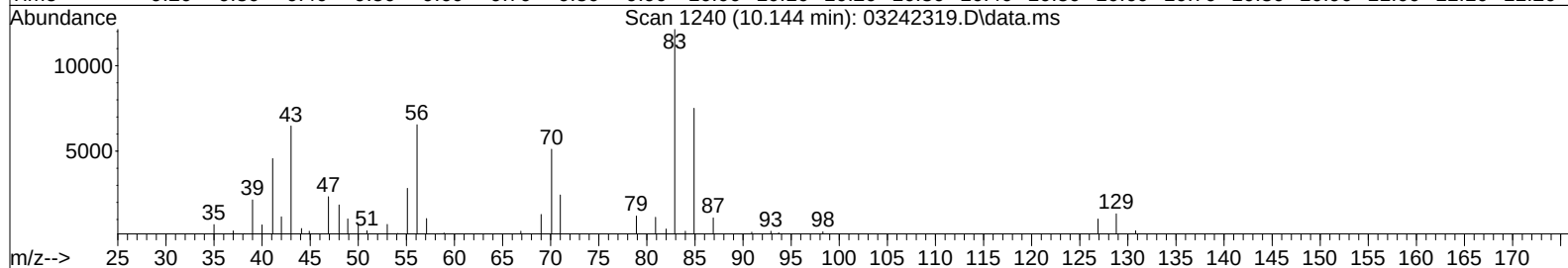
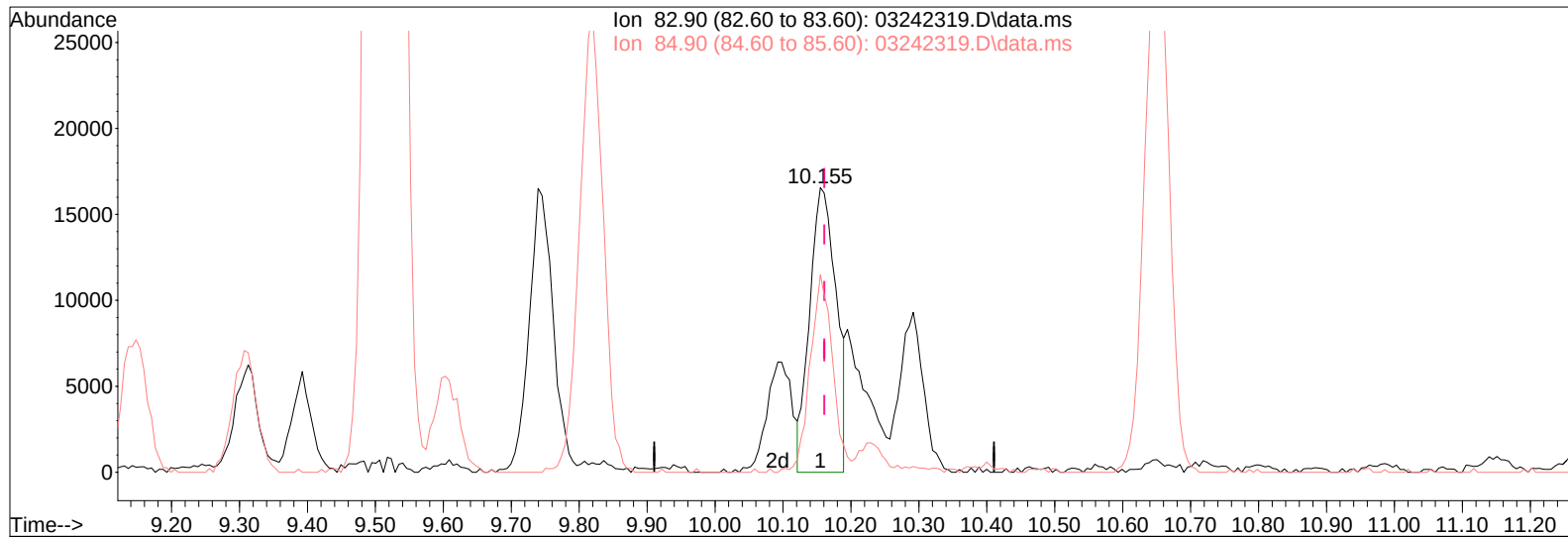
response 63679

Ion	Exp%	Act%
82.90	100	100
84.90	64.00	41.51#
0.00	0.00	0.00
0.00	0.00	0.00

Data File : I:\MS13\DATA\2023_03\24\03242319.D
Acq On : 24 Mar 2023 17:22
Sample : P2301250-014 (1000mL)
Misc : S35-01202301

Vial: 3
Operator: TZ
Inst : MS13

Quant Time: Mar 27 12:23:46 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03242319.D\data.ms

(46) Bromodichloromethane (T)

10.155min (-0.006) 1.46ng m

IPC

response 45072

TZ 3/27/23

Ion	Exp%	Act%
82.90	100	100
84.90	64.00	58.65
0.00	0.00	0.00
0.00	0.00	0.00

3/28/23

Data File : I:\MS13\DATA\2023_03\24\03242319.D
 Acq On : 24 Mar 2023 17:22
 Sample : P2301250-014 (1000mL)
 Misc : S35-01202301

Vial: 3
 Operator: TZ
 Inst : MS13

TZ 3/28/23

Quant Time: Mar 28 09:51:58 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.34	130	245548	12.500	ng	0.02
16) 1,4-Difluorobenzene (C_2)	9.39	114	1072736	12.500	ng	0.01
19) Chlorobenzene-d5 (C_3)	14.88	54	218808	12.500	ng	0.00

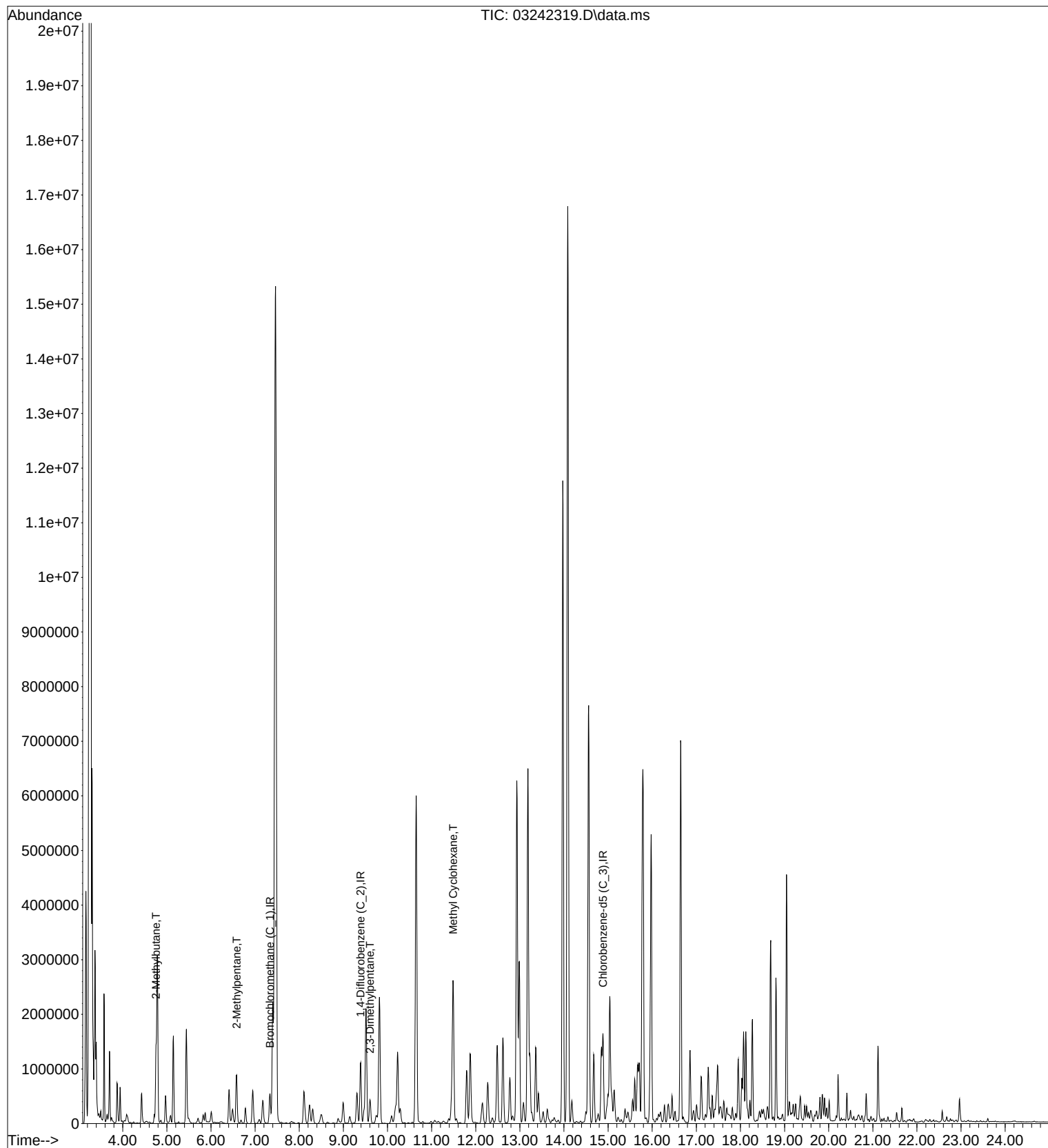
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	0.00	85	0	N.D.	d	
3) 1,1,1,2-Tetrafluoroeth...	0.00	83	0	N.D.	d	
4) 1,1-Difluoroethane	0.00	65	0	N.D.	d	
5) Chlorodifluoromethane ...	0.00	67	0	N.D.	d	
6) 1-Chloro-1,1-Difluoroe...	3.58	65	99	N.D.		
7) Dichlorofluoromethane ...	4.33	67	137	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	4.67	83	510	N.D.		
10) 2-Methylbutane	4.75	57	354319	19.729	ng	# 64
11) Methyl Acetate	0.00	43	0	N.D.	d	
12) 2-Methylpentane	6.58	71	220891	12.874	ng	80
13) 2,2-Dichloropropane	7.53	77	137	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	9.14	84	3791	N.D.		
17) 2,3-Dimethylpentane	9.60	56	228640	7.234	ng	95
18) Dibromomethane	9.88	174	538	N.D.		
20) Methyl Cyclohexane	11.49	55	1173798	32.227	ng	86
21) 1,3-Dichloropropane	0.00	76	0	N.D.	d	
22) 1,1,1,2-Tetrachloroethane	14.91	131	67	N.D.		
23) 1-Chlorohexane	15.23	91	1339	N.D.		
24) 1,2,3-Trichloropropane	0.00	75	0	N.D.	d	
25) Bromobenzene	17.12	77	2492	N.D.		
26) 2-Chlorotoluene	17.69	91	288	N.D.		
27) 4-Chlorotoluene	0.00	91	0	N.D.	d	
28) Indane	19.39	117	6770	N.D.		
29) Indene	19.51	115	1924	N.D.		
30) 1,2,4,5-Tetramethylben...	20.69	119	7364	N.D.		
31) 1,2,3,4-Tetramethylben...	20.69	119	7364	N.D.		
32) 1,2,3,5-Tetramethylben...	21.12	119	8524	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242319.D
Acq On : 24 Mar 2023 17:22
Sample : P2301250-014 (1000mL)
Misc : S35-01202301

Vial: 3
Operator: TZ
Inst : MS13

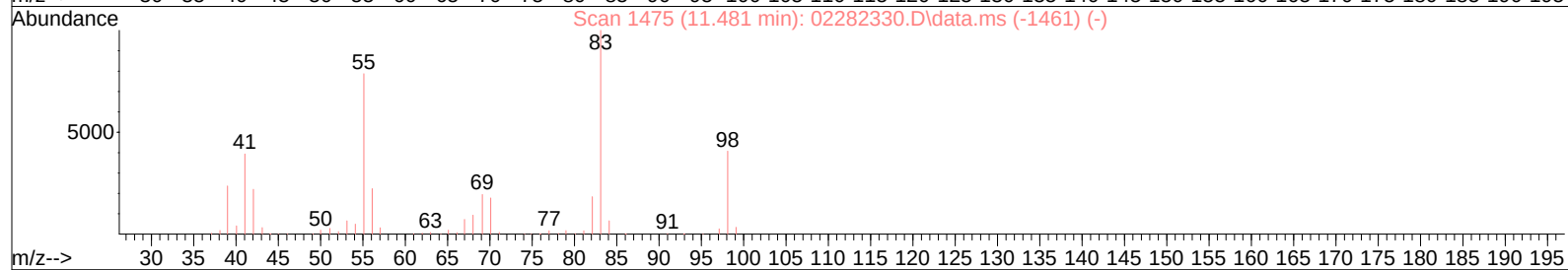
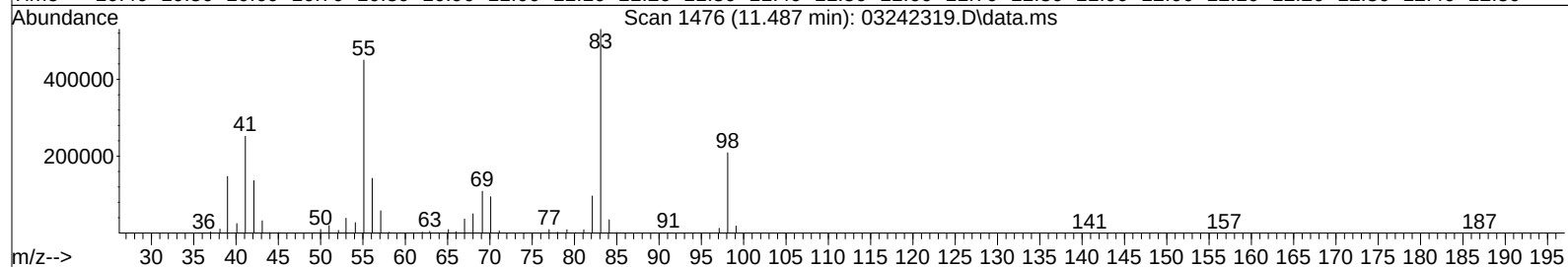
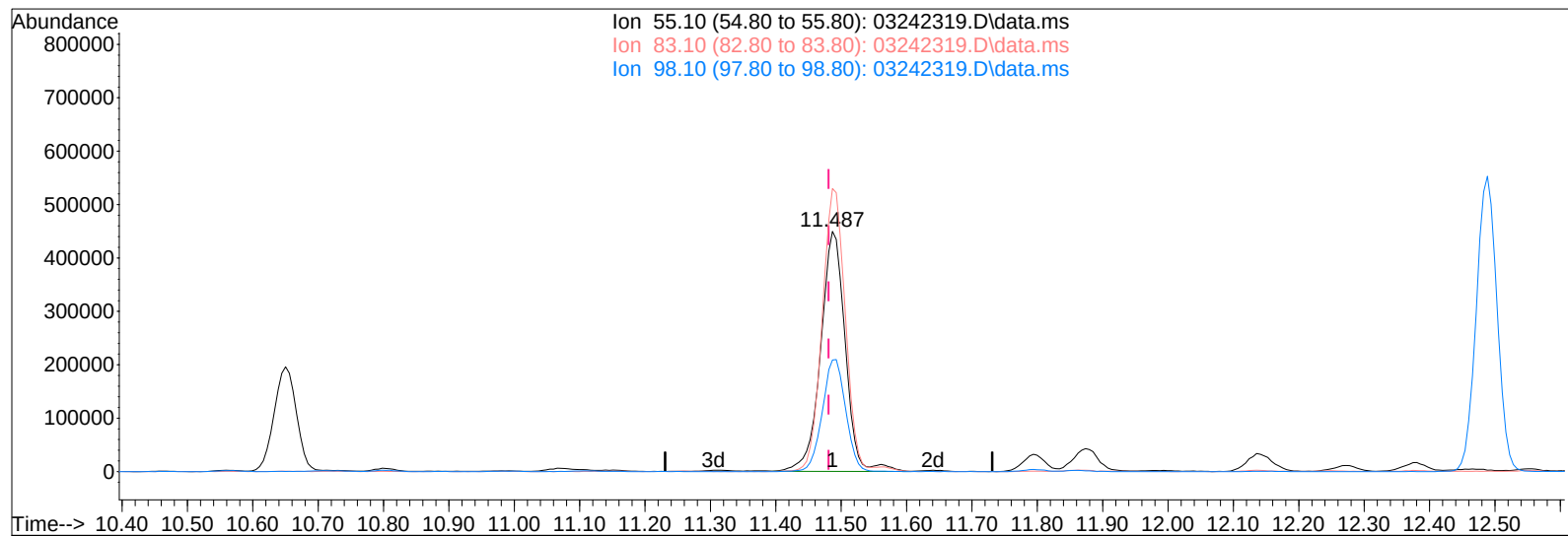
Quant Time: Mar 28 09:51:58 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242319.D
Acq On : 24 Mar 2023 17:22
Sample : P2301250-014 (1000mL)
Misc : S35-01202301

Vial: 3
Operator: TZ
Inst : MS13

Quant Time: Mar 27 16:04:11 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03242319.D\data.ms

(20) Methyl Cyclohexane (T)

11.487min (+0.006) 32.23ng

response 1173798

Ion	Exp%	Act%
55.10	100	100
83.10	128.30	112.12
98.10	53.10	44.36
0.00	0.00	0.00

T2 3/27/23

Data File : I:\MS13\DATA\2023_03\27\03272307.D
 Acq On : 27 Mar 2023 7:15
 Sample : P2301250-014dil (100mL)
 Misc : S35-01202301

Vial: 3
 Operator: WA
 Inst : MS13

Quant Time: Mar 27 14:36:40 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	233577	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.37	114	1025311	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.88	54	189342	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	390880	12.610	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	100.88%
57) Toluene-d8 (SS2)	12.48	98	1163691	11.951	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	95.60%
73) Bromofluorobenzene (SS3)	16.85	174	411089	11.527	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.24%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	3.46	85	6376	0.149	ng	95
4) Chloromethane	3.59	50	110	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	3.82	62	626	N.D.		
7) 1,3-Butadiene	3.93	54	235	N.D.		
8) Bromomethane	4.15	94	133	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	4.39	45	68281	4.116	ng	100
11) Acetonitrile	4.56	41	4702	0.109	ng	78
12) Acrolein	4.65	56	880	0.064	ng	# 67
13) Acetone	4.74	58	107442	7.589	ng	89
14) Trichlorofluoromethane	4.87	101	3794	0.099	ng	98
15) 2-Propanol (Isopropanol)	4.94	45	63026	1.103	ng	82
16) Acrylonitrile	5.10	53	2161	0.080	ng	# 78
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.45	84	8084	0.389	ng	86
20) 3-Chloro-1-propene (Al...	5.59	41	114	N.D.		
21) Trichlorotrifluoroethane	5.68	151	553	N.D.		
22) Carbon Disulfide	5.72	76	20491	0.249	ng	99
23) trans-1,2-Dichloroethene	6.24	61	1102	N.D.		
24) 1,1-Dichloroethane	6.40	63	1894	0.051	ng	81
25) Methyl tert-Butyl Ether	6.39	73	730	N.D.		
26) Vinyl Acetate	6.54	86	144	N.D.		
27) 2-Butanone (MEK)	6.76	72	7651	0.609	ng	# 87
28) cis-1,2-Dichloroethene	7.16	61	29889	1.002	ng	94
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	7.37	61	11697	1.415	ng	93
31) n-Hexane	7.39	57	76633	2.409	ng	99
32) Chloroform	7.43	83	1803221	47.918	ng	100
34) Tetrahydrofuran (THF)	7.86	72	1316	0.102	ng	# 52
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.08	62	380	N.D.		
38) 1,1,1-Trichloroethane	8.47	97	8147	0.240	ng	98
39) Isopropyl Acetate	9.37	61	28233	No Calib		
40) 1-Butanol	8.90	56	5487	No Calib	#	
41) Benzene	8.97	78	37591	0.471	ng	96
42) Carbon Tetrachloride	9.14	117	366	N.D.		
43) Cyclohexane	9.29	84	23751	0.812	ng	98
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	10.15	83	3046	0.103	ng	79
47) Trichloroethene	10.21	130	49256	2.108	ng	98
48) 1,4-Dioxane	0.00	88	0	N.D.	d	
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.	d	
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS13\DATA\2023_03\27\03272307.D
 Acq On : 27 Mar 2023 7:15
 Sample : P2301250-014dil (100mL)
 Misc : S35-01202301

Vial: 3
 Operator: WA
 Inst : MS13

Quant Time: Mar 27 14:36:40 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

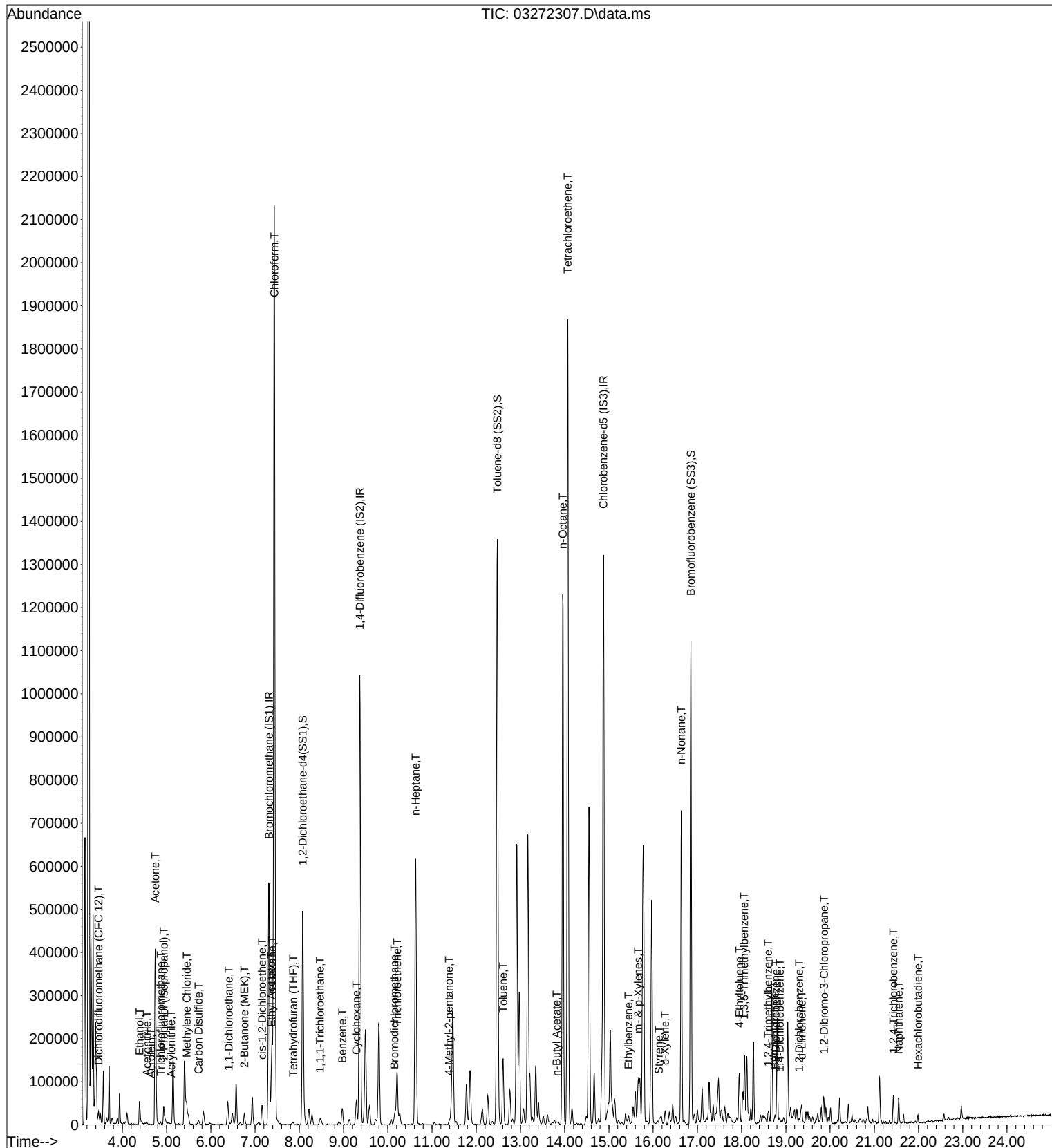
DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.63	71	179144	9.281	ng	98
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.38	58	3796	0.221	ng #	97
54) trans-1,3-Dichloropropene	12.01	75	150	N.D.		
55) 1,1,2-Trichloroethane	12.12	97	706	N.D.		
58) Toluene	12.61	91	138883	1.498	ng	99
59) 2-Hexanone	0.00	43	0	N.D.	d	
60) Dibromochloromethane	13.11	129	391	N.D.		
61) 1,2-Dibromoethane	13.46	107	126	N.D.		
62) n-Butyl Acetate	13.82	43	7425	0.145	ng	90
63) n-Octane	13.96	57	250645	13.750	ng	96
64) Tetrachloroethene	14.07	166	692575	24.559	ng	99
65) Chlorobenzene	14.94	112	2324	N.D.		
66) Ethylbenzene	15.44	91	12803	0.116	ng	95
67) m- & p-Xylenes	15.66	91	51431	0.578	ng	99
68) Bromoform	15.72	173	540	N.D.		
69) Styrene	16.13	104	3957	0.065	ng	92
70) o-Xylene	16.27	91	18433	0.217	ng	96
71) n-Nonane	16.64	43	299901	7.282	ng	96
72) 1,1,2,2-Tetrachloroethane	16.24	83	1677	N.D.		
74) Cumene	17.06	105	4556	N.D.		
75) alpha-Pinene	17.57	93	1852	N.D.		
76) n-Propylbenzene	17.74	91	4943	N.D.		
77) 3-Ethyltoluene	17.33	105	414	No Calib	#	
78) 4-Ethyltoluene	17.95	105	4971	0.050	ng	99
79) 1,3,5-Trimethylbenzene	18.06	105	9033	0.103	ng	95
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.33	105	414	No Calib	#	
82) 1,2,4-Trimethylbenzene	18.60	105	10411	0.120	ng	92
83) n-Decane	16.99	58	473	No Calib	#	
84) Benzyl Chloride	18.75	91	11365	0.162	ng	94
85) 1,3-Dichlorobenzene	18.77	146	3057	0.058	ng	98
86) 1,4-Dichlorobenzene	18.86	146	3910	0.072	ng	100
87) sec-Butylbenzene	18.96	105	3108	N.D.		
88) 4-Isopropyltoluene (p-...	19.18	119	3821	N.D.		
89) 1,2,3-Trimethylbenzene	17.33	105	414	No Calib	#	
90) 1,2-Dichlorobenzene	19.30	146	3705	0.071	ng	98
91) d-Limonene	19.36	68	5325	0.182	ng	92
92) 1,2-Dibromo-3-Chloropr...	19.86	157	5284	0.269	ng #	61
93) n-Undecane	18.26	58	4952	No Calib		
94) 1,2,4-Trichlorobenzene	21.43	180	20642	0.530	ng	99
95) Naphthalene	21.55	128	43406	0.462	ng	100
96) n-Dodecane	19.20	58	435	No Calib	#	
97) Hexachlorobutadiene	21.99	225	3599	0.119	ng	93
98) Cyclohexanone	15.70	55	6463	No Calib	#	
99) tert-Butylbenzene	18.60	119	2637	N.D.		
100) n-Butylbenzene	0.00	91	0	N.D.	d	
101) 1,1,1,2-Tetrachloroethane	14.91	131	127	N.D.		

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

Vial: 3
Operator: WA
Inst : MS13

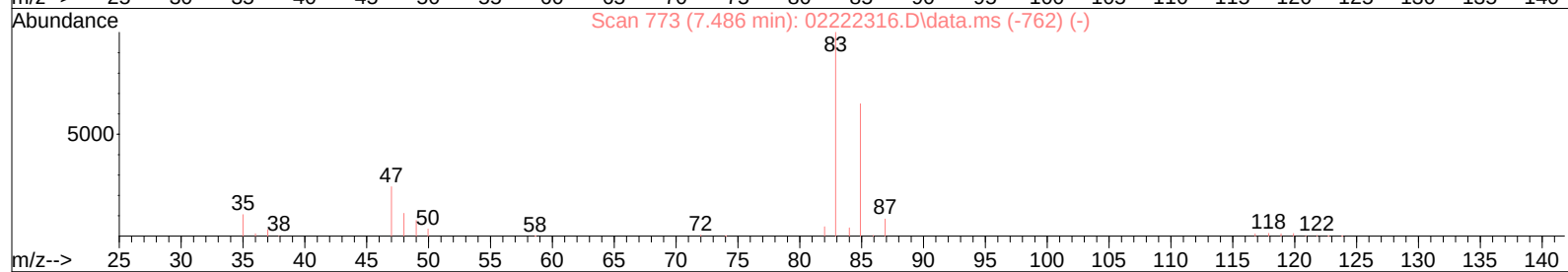
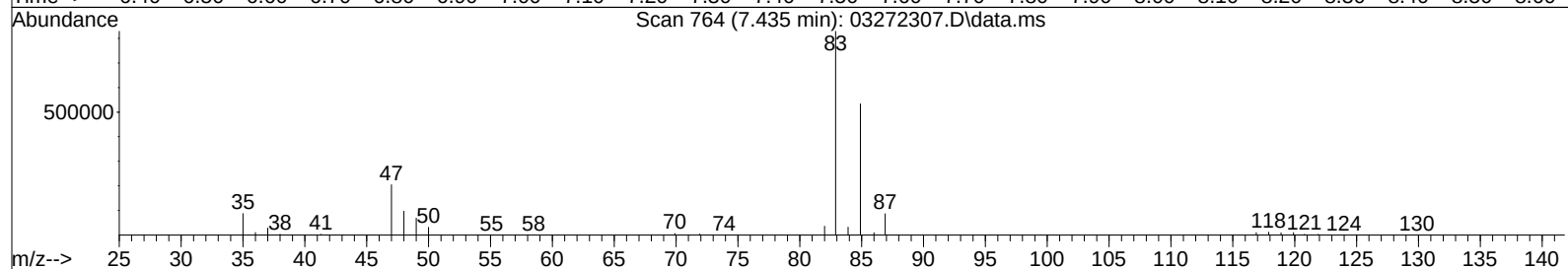
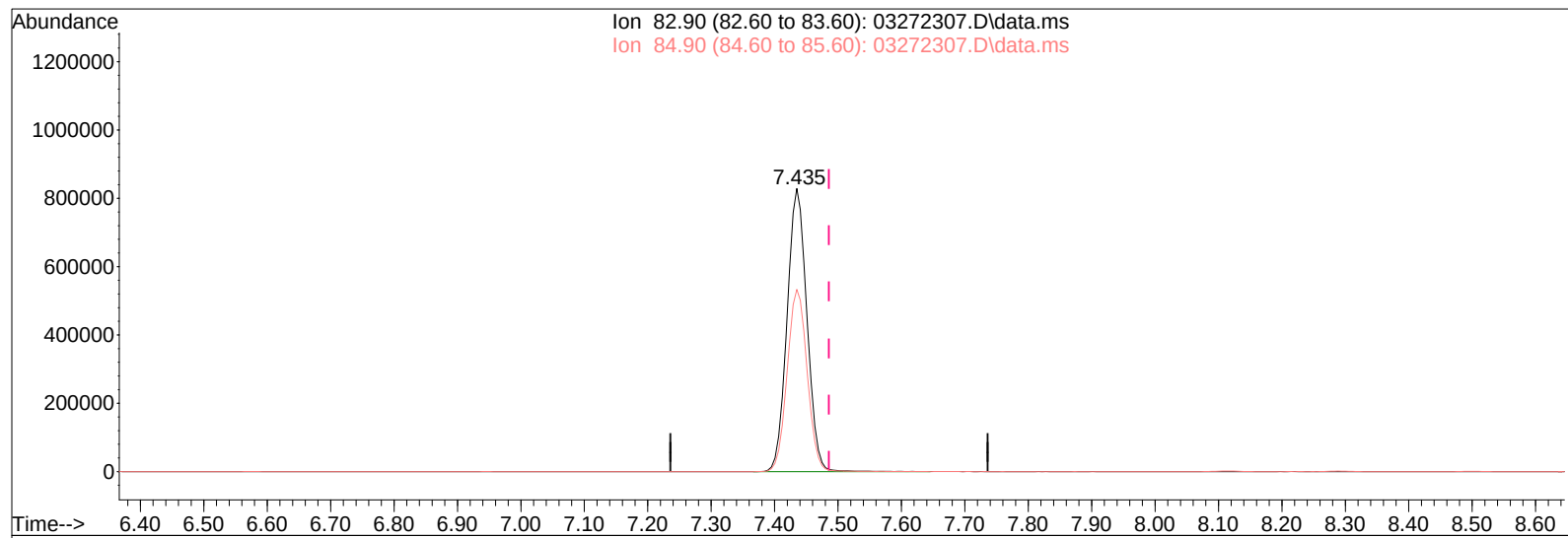
Quant Time: Mar 27 14:36:40 2023



Data File : I:\MS13\DATA\2023_03\27\03272307.D
Acq On : 27 Mar 2023 7:15
Sample : P2301250-014dil (100mL)
Misc : S35-01202301

Vial: 3
Operator: WA
Inst : MS13

Quant Time: Mar 27 10:22:09 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03272307.D\data.ms

(32) Chloroform (T)

7.435min (-0.051) 47.92ng

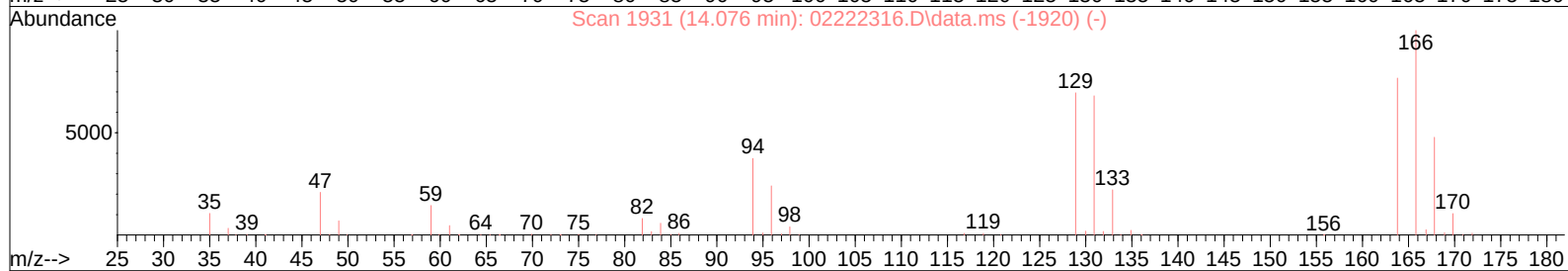
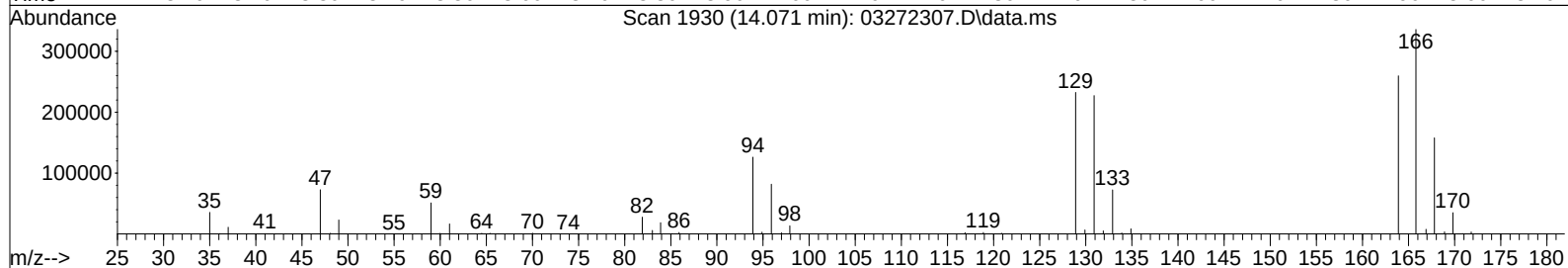
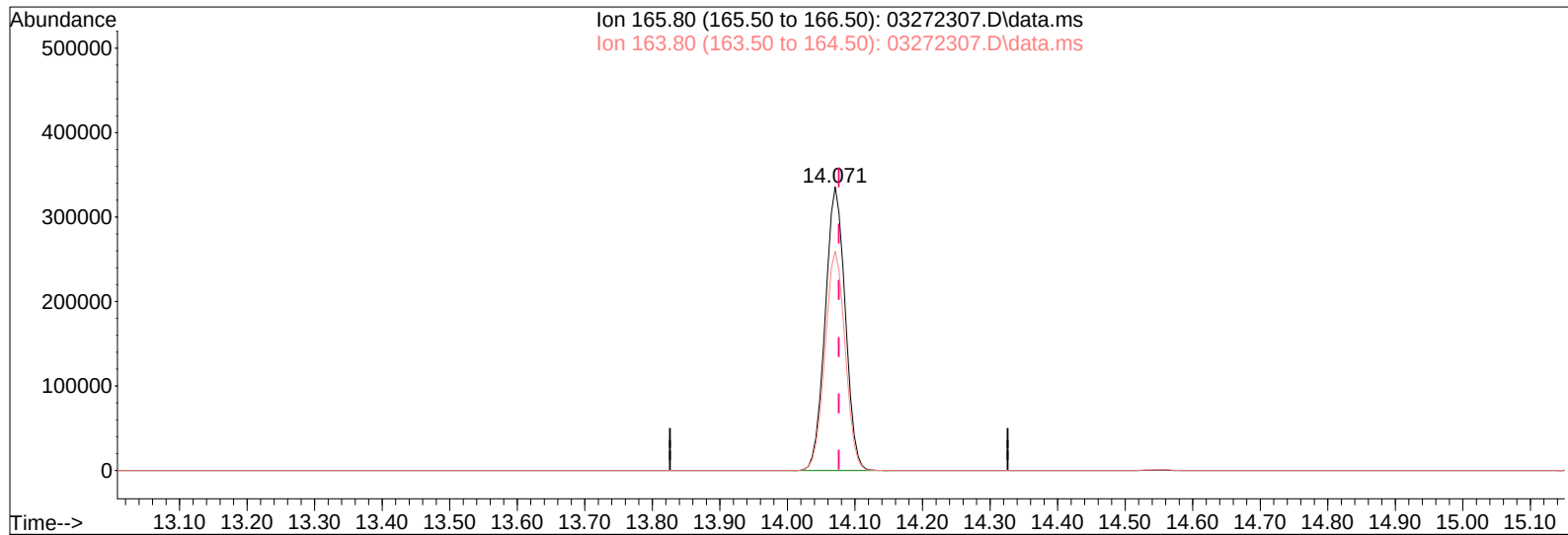
response 1803221

Ion	Exp%	Act%
82.90	100	100
84.90	65.00	64.89
0.00	0.00	0.00
0.00	0.00	0.00

Data File : I:\MS13\DATA\2023_03\27\03272307.D
Acq On : 27 Mar 2023 7:15
Sample : P2301250-014dil (100mL)
Misc : S35-01202301

Vial: 3
Operator: WA
Inst : MS13

Quant Time: Mar 27 10:22:09 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03272307.D\data.ms

(64) Tetrachloroethene (T)

14.071min (-0.006) 24.56ng

response 692575

Ion	Exp%	Act%
165.80	100	100
163.80	77.30	78.08
0.00	0.00	0.00
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG13B

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-015

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala/Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: SC00921

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23 & 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -3.75 Final Pressure (psig): 4.08

Container Dilution Factor: 1.72

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.8	0.91	0.15	0.56	0.18	0.030	
74-87-3	Chloromethane	ND	0.36	0.15	ND	0.17	0.072	
75-01-4	Vinyl Chloride	0.31	0.19	0.098	0.12	0.074	0.038	
74-83-9	Bromomethane	ND	0.36	0.13	ND	0.093	0.033	
75-00-3	Chloroethane	ND	0.36	0.11	ND	0.14	0.043	
67-64-1	Acetone	240	9.1	2.1	99	3.8	0.87	
75-69-4	Trichlorofluoromethane	1.9	0.89	0.14	0.33	0.16	0.025	
75-35-4	1,1-Dichloroethene	ND	0.19	0.13	ND	0.048	0.032	
75-09-2	Methylene Chloride	1.9	0.91	0.26	0.54	0.26	0.074	
76-13-1	Trichlorotrifluoroethane	0.47	0.93	0.13	0.062	0.12	0.017	J
75-15-0	Carbon Disulfide	2.6	1.8	0.28	0.82	0.59	0.088	
156-60-5	trans-1,2-Dichloroethene	ND	0.19	0.13	ND	0.048	0.032	
75-34-3	1,1-Dichloroethane	ND	0.19	0.13	ND	0.047	0.033	
1634-04-4	Methyl tert-Butyl Ether	ND	0.93	0.11	ND	0.26	0.030	
78-93-3	2-Butanone (MEK)	10	1.8	0.19	3.4	0.61	0.064	
156-59-2	cis-1,2-Dichloroethene	ND	0.19	0.13	ND	0.048	0.033	
67-66-3	Chloroform	0.23	0.19	0.12	0.048	0.039	0.025	
107-06-2	1,2-Dichloroethane	ND	0.19	0.10	ND	0.047	0.025	
71-55-6	1,1,1-Trichloroethane	25	0.19	0.11	4.5	0.035	0.021	
71-43-2	Benzene	8.6	0.19	0.13	2.7	0.059	0.041	
56-23-5	Carbon Tetrachloride	0.64	0.19	0.13	0.10	0.030	0.020	
110-82-7	Cyclohexane	1.4	1.8	0.26	0.41	0.52	0.075	J
78-87-5	1,2-Dichloropropane	ND	0.19	0.11	ND	0.041	0.025	
75-27-4	Bromodichloromethane	ND	0.19	0.13	ND	0.028	0.020	
79-01-6	Trichloroethene	1.8	0.19	0.12	0.33	0.035	0.023	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG13B

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-015

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala/Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: SC00921

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23 & 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -3.75 Final Pressure (psig): 4.08

Container Dilution Factor: 1.72

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.93	0.14	ND	0.20	0.031	
108-10-1	4-Methyl-2-pentanone	1.3	1.9	0.13	0.32	0.46	0.031	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.88	0.19	ND	0.19	0.042	
79-00-5	1,1,2-Trichloroethane	ND	0.19	0.093	ND	0.035	0.017	
108-88-3	Toluene	30	0.91	0.11	8.0	0.24	0.030	
591-78-6	2-Hexanone	ND	1.9	0.11	ND	0.46	0.028	
124-48-1	Dibromochloromethane	ND	0.19	0.12	ND	0.022	0.014	
106-93-4	1,2-Dibromoethane	ND	0.19	0.11	ND	0.025	0.014	
127-18-4	Tetrachloroethene	320	1.9	1.2	47	0.28	0.18	D
108-90-7	Chlorobenzene	0.17	0.91	0.12	0.036	0.20	0.027	J
100-41-4	Ethylbenzene	1.2	0.91	0.13	0.28	0.21	0.030	
179601-23-1	m,p-Xylenes	5.4	1.9	0.24	1.3	0.44	0.055	
75-25-2	Bromoform	ND	0.93	0.19	ND	0.090	0.018	
100-42-5	Styrene	0.55	0.91	0.15	0.13	0.21	0.035	J
95-47-6	o-Xylene	1.9	0.91	0.13	0.44	0.21	0.031	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.19	0.13	ND	0.028	0.019	
98-82-8	Cumene	0.13	0.93	0.13	0.027	0.19	0.027	J
541-73-1	1,3-Dichlorobenzene	ND	0.91	0.14	ND	0.15	0.023	
106-46-7	1,4-Dichlorobenzene	ND	0.91	0.14	ND	0.15	0.023	
95-50-1	1,2-Dichlorobenzene	ND	0.93	0.14	ND	0.15	0.023	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.9	0.17	ND	0.20	0.018	
120-82-1	1,2,4-Trichlorobenzene	ND	1.9	0.22	ND	0.25	0.030	
79-20-9	Methyl Acetate	ND	0.86	0.41	ND	0.28	0.14	X
108-87-2	Methylcyclohexane	3.7	0.86	0.45	0.93	0.21	0.11	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

D = The reported result is from a dilution.

X = See case narrative.

Data File : I:\MS13\DATA\2023_03\24\03242320.D
 Acq On : 24 Mar 2023 17:59
 Sample : P2301250-015 (1000mL)
 Misc : S35-01202301

Vial: 4
 Operator: TZ
 Inst : MS13

TZ 3/27/23

Quant Time: Mar 27 12:36:34 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.33	130	247342	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	9.38	114	1080478	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	213157	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.09	65	418770	12.758	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.08%
57) Toluene-d8 (SS2)	12.48	98	1235051	11.267	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	90.16%
73) Bromofluorobenzene (SS3)	16.85	174	471181	11.735	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.92%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	3.46	85	72869	1.608	ng	96
4) Chloromethane	0.00	50	0	N.D.	d	
5) 1,2-Dichloro-1,1,2,2-t...	3.72	135	1546	0.068	ng	99
6) Vinyl Chloride	3.80	62	5492	0.182	ng	79
7) 1,3-Butadiene	0.00	54	0	N.D.	d	
8) Bromomethane	4.13	94	532	N.D.		
9) Chloroethane	4.26	64	387	N.D.		
10) Ethanol	4.44	45	1951796	111.110	ng	100
11) Acetonitrile	4.57	41	16582	0.363	ng	95
12) Acrolein	4.64	56	2126	0.146	ng	# 64
13) Acetone	4.75	58	2052879	136.929	ng	93
14) Trichlorofluoromethane	4.86	101	44403	1.089	ng	98
15) 2-Propanol (Isopropanol)	4.99	45	982376	16.231	ng	100
16) Acrylonitrile	0.00	53	0	N.D.	d	
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.48	84	23788m	1.082	ng	
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	5.68	151	5912	0.276	ng	97
22) Carbon Disulfide	5.70	76	129550	1.489	ng	98
23) trans-1,2-Dichloroethene	6.24	61	307	N.D.		
24) 1,1-Dichloroethane	6.42	63	1852	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.	d	
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	6.76	72	78630	5.908	ng	97
28) cis-1,2-Dichloroethene	7.20	61	418	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	7.38	61	68403	7.816	ng	97
31) n-Hexane	7.38	57	92857	2.757	ng	99
32) Chloroform	7.46	83	5426	0.136	ng	99
34) Tetrahydrofuran (THF)	7.86	72	7919	0.579	ng	# 8
35) Ethyl tert-Butyl Ether	7.98	87	199	N.D.		
36) 1,2-Dichloroethane	8.21	62	553	N.D.		
38) 1,1,1-Trichloroethane	8.49	97	511161	14.293	ng	99
39) Isopropyl Acetate	9.38	61	31137	No Calib	#	
40) 1-Butanol	8.88	56	82835	No Calib	#	
41) Benzene	8.98	78	419105	4.986	ng	99
42) Carbon Tetrachloride	9.15	117	11745	0.372	ng	83
43) Cyclohexane	9.29	84	25403	0.824	ng	93
44) tert-Amyl Methyl Ether	9.64	73	641	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	10.17	83	1553	N.D.		
47) Trichloroethene	10.22	130	25282	1.027	ng	100
48) 1,4-Dioxane	0.00	88	0	N.D.	d	
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.	d	
50) Methyl Methacrylate	10.49	100	232	N.D.		

Data File : I:\MS13\DATA\2023_03\24\03242320.D
 Acq On : 24 Mar 2023 17:59
 Sample : P2301250-015 (1000mL)
 Misc : S35-01202301

Vial: 4
 Operator: TZ
 Inst : MS13

Quant Time: Mar 27 12:36:34 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

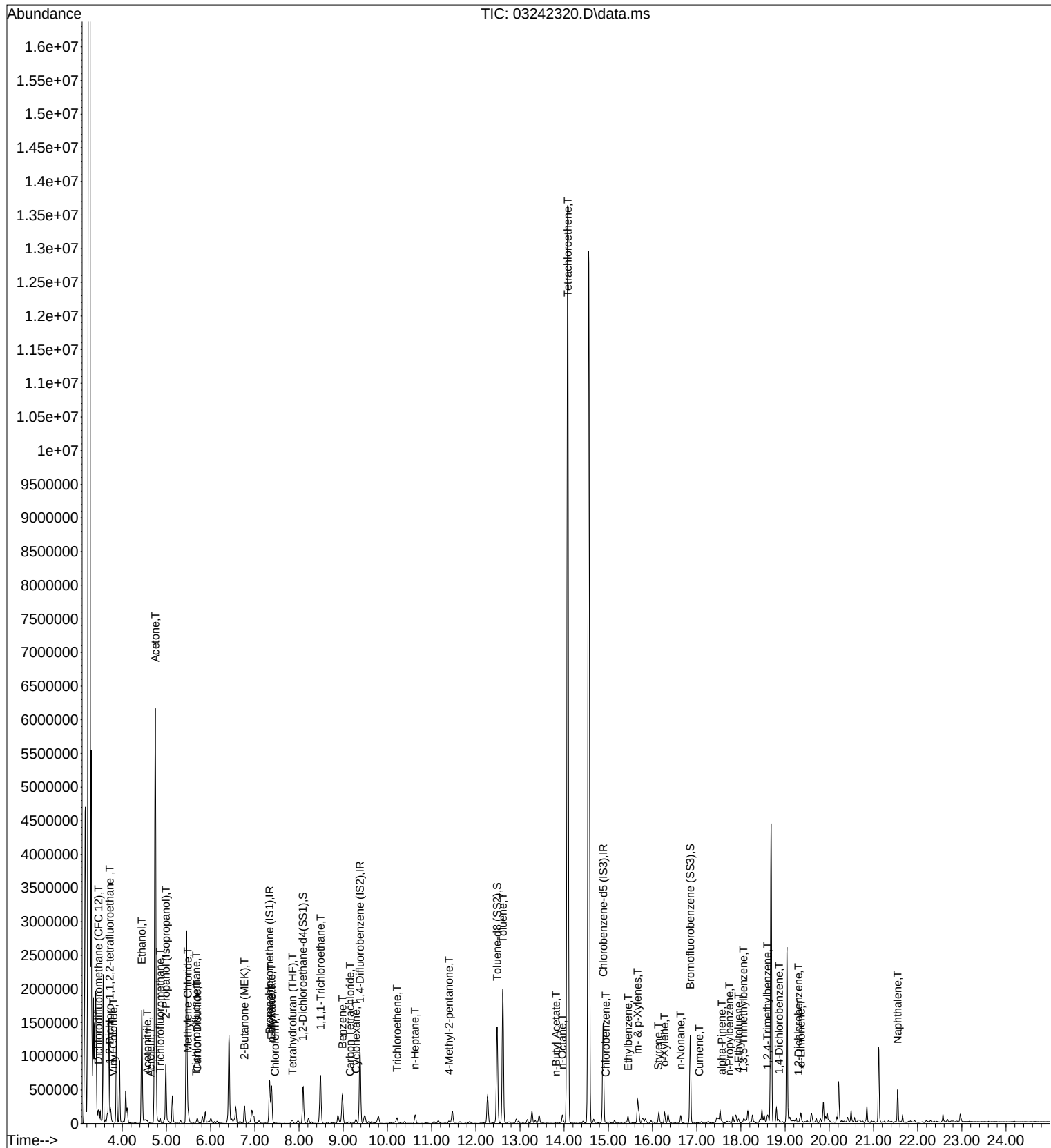
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.63	71	35947	1.767	ng	96
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.40	58	13741	0.758	ng	94
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.61	91	1837050	17.603	ng	100
59) 2-Hexanone	0.00	43	0	N.D.	d	
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	13.44	107	119	N.D.		
62) n-Butyl Acetate	13.82	43	15522	0.269	ng	98
63) n-Octane	13.96	57	24289	1.184	ng	91
64) Tetrachloroethene	14.08	166	5194409	163.617	ng	100
65) Chlorobenzene	14.94	112	6635	0.096	ng	91
66) Ethylbenzene	15.45	91	86950	0.698	ng	100
67) m- & p-Xylenes	15.66	91	317198	3.166	ng	98
68) Bromoform	15.70	173	146	N.D.		
69) Styrene	16.13	104	22137	0.321	ng	99
70) o-Xylene	16.27	91	107454	1.122	ng	99
71) n-Nonane	16.64	43	49024	1.057	ng	97
72) 1,1,2,2-Tetrachloroethane	16.25	83	194	N.D.		
74) Cumene	17.06	105	9142	0.078	ng	99
75) alpha-Pinene	17.57	93	12395	0.231	ng	94
76) n-Propylbenzene	17.74	91	15261	0.109	ng	99
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	15951	0.143	ng	99
79) 1,3,5-Trimethylbenzene	18.06	105	17899	0.181	ng	94
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.60	105	46408	0.476	ng	90
83) n-Decane	17.12	58	2874	No Calib	#	
84) Benzyl Chloride	18.75	91	574	N.D.		
85) 1,3-Dichlorobenzene	18.77	146	2922	N.D.		
86) 1,4-Dichlorobenzene	18.86	146	4279	0.070	ng	98
87) sec-Butylbenzene	18.96	105	2464	N.D.		
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.	d	
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.30	146	3960	0.068	ng	96
91) d-Limonene	19.36	68	29241	0.887	ng	96
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.26	58	1995	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	567	N.D.		
95) Naphthalene	21.55	128	329663	3.120	ng	100
96) n-Dodecane	19.18	58	210	No Calib	#	
97) Hexachlorobutadiene	21.98	225	136	N.D.		
98) Cyclohexanone	15.65	55	434	No Calib	#	
99) tert-Butylbenzene	0.00	119	0	N.D.	d	
100) n-Butylbenzene	0.00	91	0	N.D.	d	
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242320.D
Acq On : 24 Mar 2023 17:59
Sample : P2301250-015 (1000mL)
Misc : S35-01202301

Vial: 4
Operator: TZ
Inst : MS13

Quant Time: Mar 27 12:36:34 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242320.D
 Acq On : 24 Mar 2023 17:59
 Sample : P2301250-015 (1000mL)
 Misc : S35-01202301

Vial: 4
 Operator: TZ
 Inst : MS13

T2 3/27/23

Quant Time: Mar 27 12:36:34 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.33	130	247342	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	9.38	114	1080478	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	213157	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.09	65	418770	12.758	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.08%
57) Toluene-d8 (SS2)	12.48	98	1235051	11.267	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	90.16%
73) Bromofluorobenzene (SS3)	16.85	174	471181	11.735	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.92%

Target Compounds

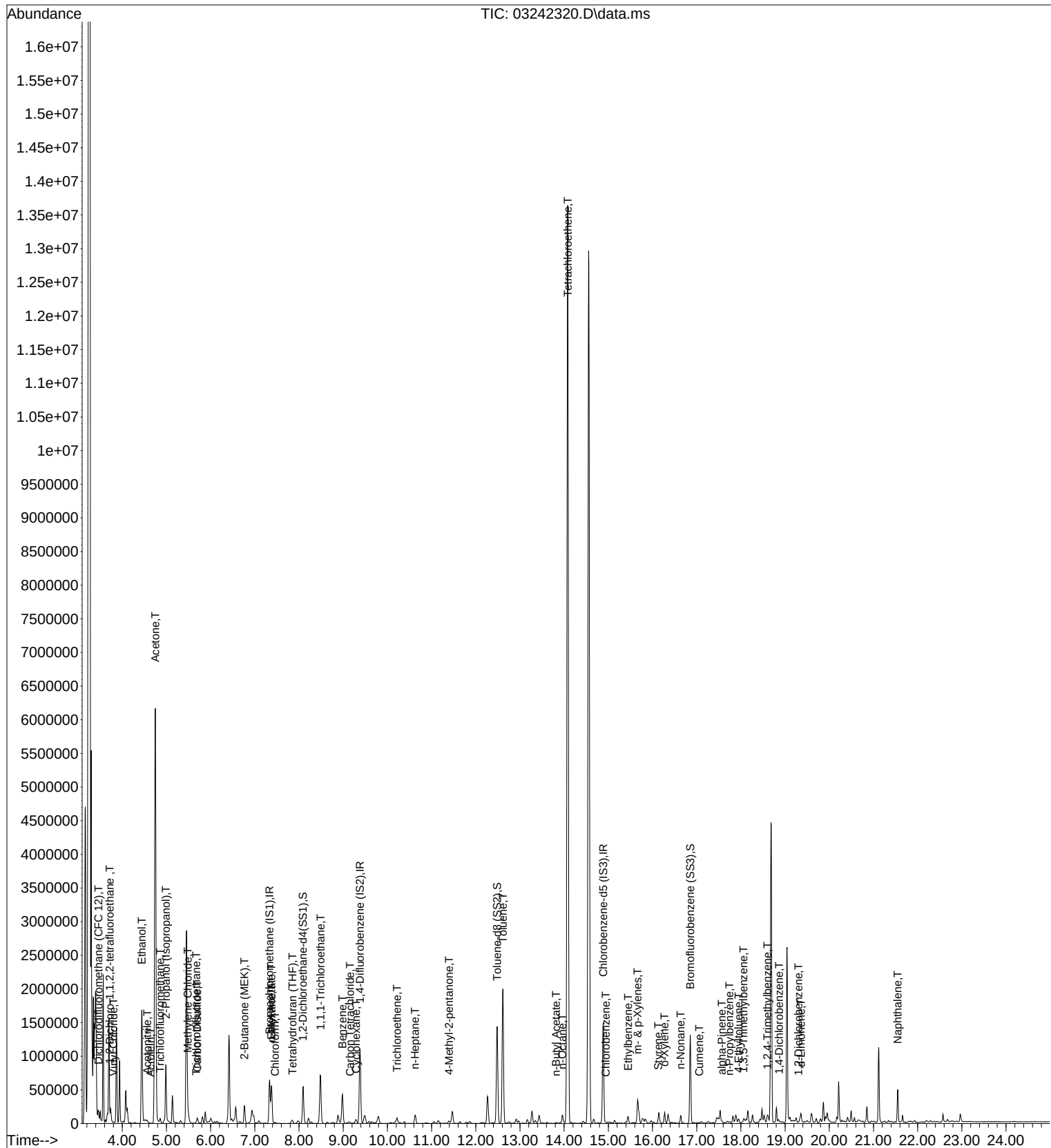
						Qvalue
3) Dichlorodifluoromethan...	3.46	85	72869	1.608	ng	96
5) 1,2-Dichloro-1,1,2,2-t...	3.72	135	1546	0.068	ng	99
6) Vinyl Chloride	3.80	62	5492	0.182	ng	79
10) Ethanol	4.44	45	1951796	111.110	ng	100
11) Acetonitrile	4.57	41	16582	0.363	ng	95
12) Acrolein	4.64	56	2126	0.146	ng	# 64
13) Acetone	4.75	58	2052879	136.929	ng	93
14) Trichlorofluoromethane	4.86	101	44403	1.089	ng	98
15) 2-Propanol (Isopropanol)	4.99	45	982376	16.231	ng	100
19) Methylene Chloride	5.48	84	23788m	1.082	ng	
21) Trichlorotrifluoroethane	5.68	151	5912	0.276	ng	97
22) Carbon Disulfide	5.70	76	129550	1.489	ng	98
27) 2-Butanone (MEK)	6.76	72	78630	5.908	ng	97
30) Ethyl Acetate	7.38	61	68403	7.816	ng	97
31) n-Hexane	7.38	57	92857	2.757	ng	99
32) Chloroform	7.46	83	5426	0.136	ng	99
34) Tetrahydrofuran (THF)	7.86	72	7919	0.579	ng	# 8
38) 1,1,1-Trichloroethane	8.49	97	511161	14.293	ng	99
41) Benzene	8.98	78	419105	4.986	ng	99
42) Carbon Tetrachloride	9.15	117	11745	0.372	ng	83
43) Cyclohexane	9.29	84	25403	0.824	ng	93
47) Trichloroethene	10.22	130	25282	1.027	ng	100
51) n-Heptane	10.63	71	35947	1.767	ng	96
53) 4-Methyl-2-pentanone	11.40	58	13741	0.758	ng	94
58) Toluene	12.61	91	1837050	17.603	ng	100
62) n-Butyl Acetate	13.82	43	15522	0.269	ng	98
63) n-Octane	13.96	57	24289	1.184	ng	91
64) Tetrachloroethene	14.08	166	5194409	163.617	ng	100
65) Chlorobenzene	14.94	112	6635	0.096	ng	91
66) Ethylbenzene	15.45	91	86950	0.698	ng	100
67) m- & p-Xylenes	15.66	91	317198	3.166	ng	98
69) Styrene	16.13	104	22137	0.321	ng	99
70) o-Xylene	16.27	91	107454	1.122	ng	99
71) n-Nonane	16.64	43	49024	1.057	ng	97
74) Cumene	17.06	105	9142	0.078	ng	99
75) alpha-Pinene	17.57	93	12395	0.231	ng	94
76) n-Propylbenzene	17.74	91	15261	0.109	ng	99
78) 4-Ethyltoluene	17.95	105	15951	0.143	ng	99
79) 1,3,5-Trimethylbenzene	18.06	105	17899	0.181	ng	94
82) 1,2,4-Trimethylbenzene	18.60	105	46408	0.476	ng	90
86) 1,4-Dichlorobenzene	18.86	146	4279	0.070	ng	98
90) 1,2-Dichlorobenzene	19.30	146	3960	0.068	ng	96
91) d-Limonene	19.36	68	29241	0.887	ng	96
95) Naphthalene	21.55	128	329663	3.120	ng	100

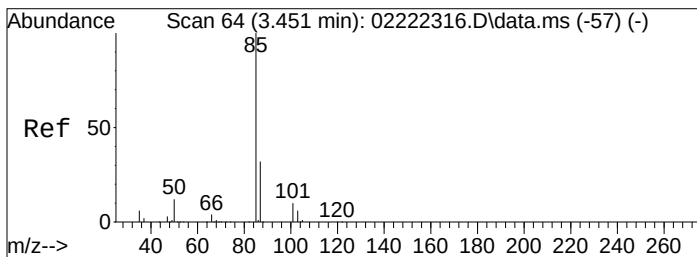
(#)= qualifier out of range (m)= manual integration (+)= signals summed

Data File : I:\MS13\DATA\2023_03\24\03242320.D
Acq On : 24 Mar 2023 17:59
Sample : P2301250-015 (1000mL)
Misc : S35-01202301

Vial: 4
Operator: TZ
Inst : MS13

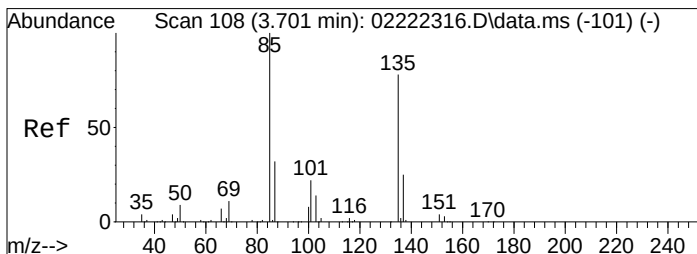
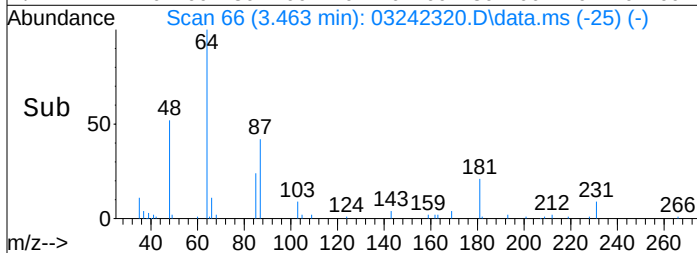
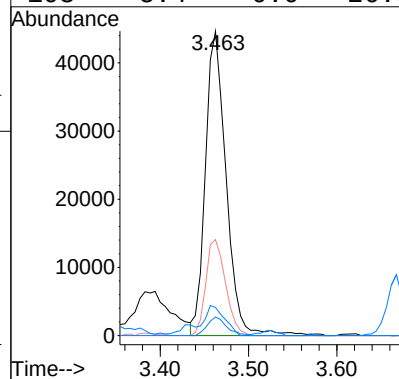
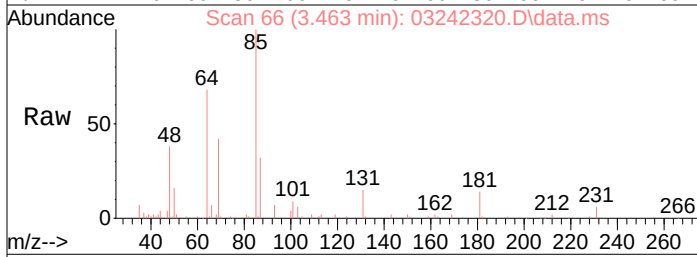
Quant Time: Mar 27 12:36:34 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M





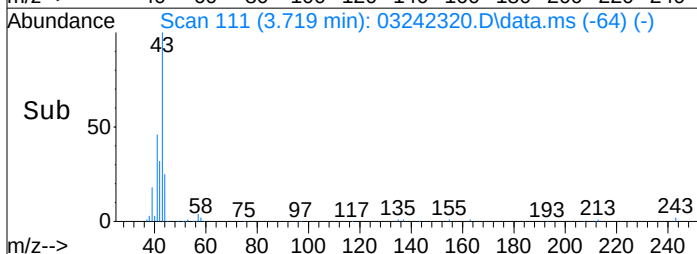
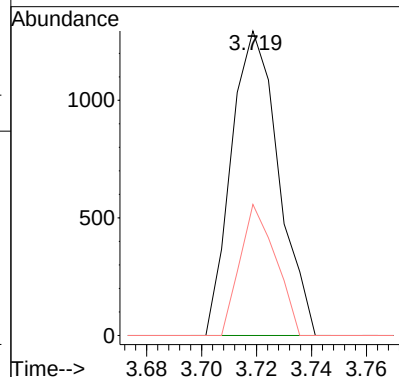
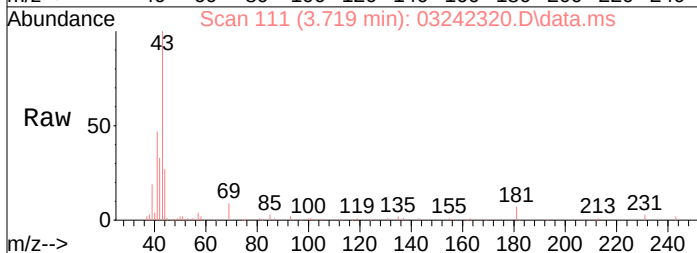
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.61 ng
 RT: 3.46 min Scan# 66
 Delta R.T. -0.015 min
 Lab File: 03242320.D
 Acq: 24 Mar 2023 17:59

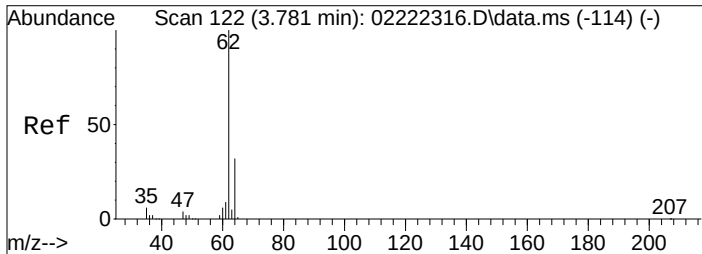
Tgt Ion: 85 Resp: 72869
 Ion Ratio Lower Upper
 85 100
 87 29.9 12.4 52.4
 101 11.3 0.0 29.4
 103 5.4 0.0 26.0



#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.07 ng
 RT: 3.72 min Scan# 111
 Delta R.T. 0.017 min
 Lab File: 03242320.D
 Acq: 24 Mar 2023 17:59

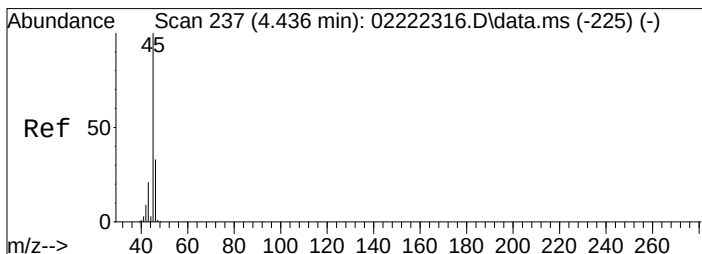
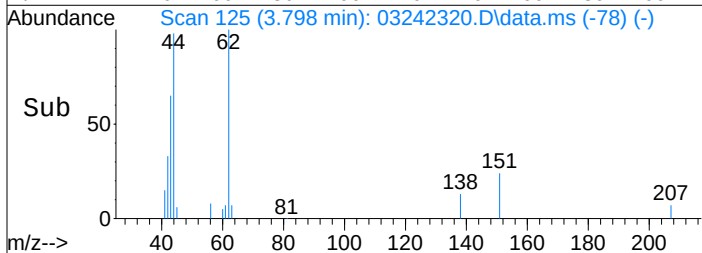
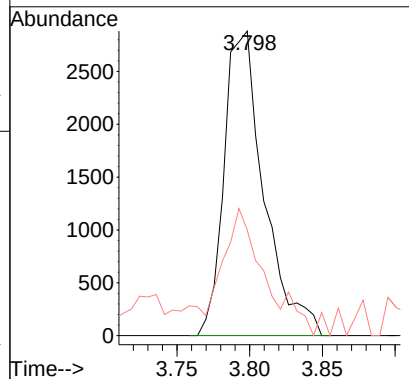
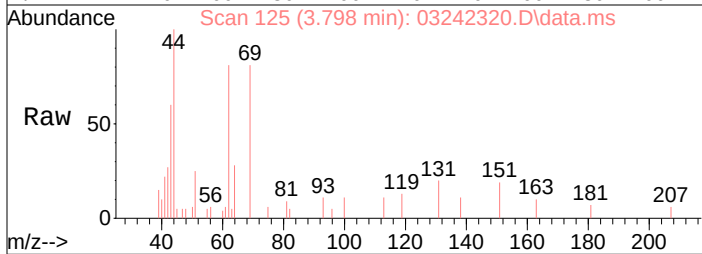
Tgt Ion: 135 Resp: 1546
 Ion Ratio Lower Upper
 135 100
 137 32.6 12.2 52.2





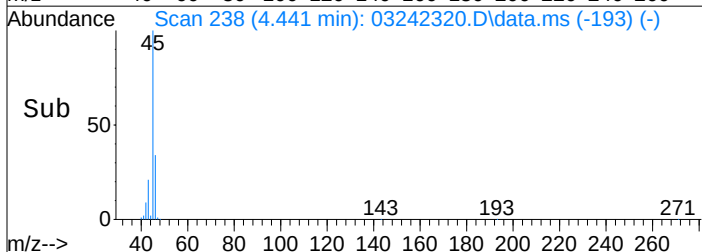
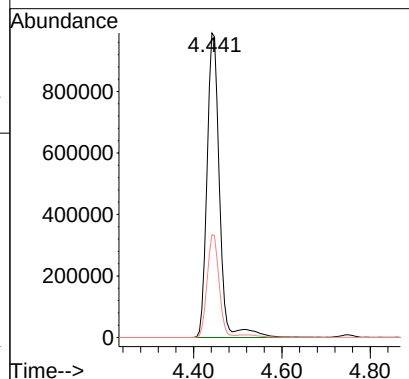
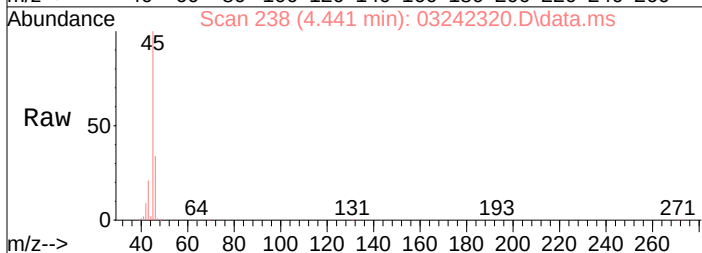
#6
 Vinyl Chloride
 Concen: 0.18 ng
 RT: 3.80 min Scan# 125
 Delta R.T. 0.017 min
 Lab File: 03242320.D
 Acq: 24 Mar 2023 17:59

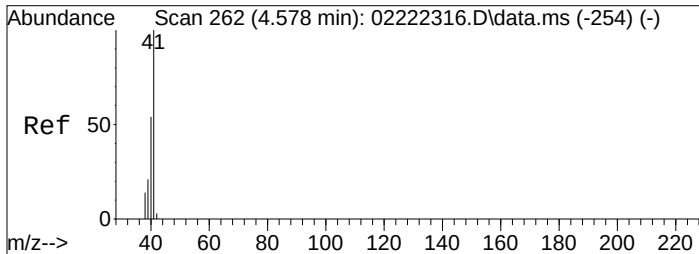
Tgt Ion:	62	Resp:	5492
Ion Ratio	Lower	Upper	
62	100		
64	43.7	11.8	51.8



#10
 Ethanol
 Concen: 111.11 ng
 RT: 4.44 min Scan# 238
 Delta R.T. 0.006 min
 Lab File: 03242320.D
 Acq: 24 Mar 2023 17:59

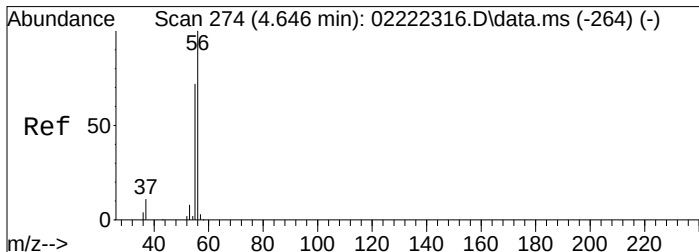
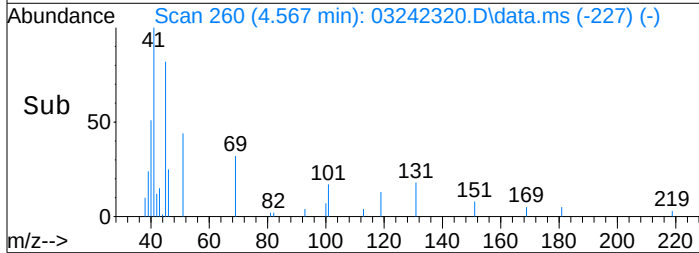
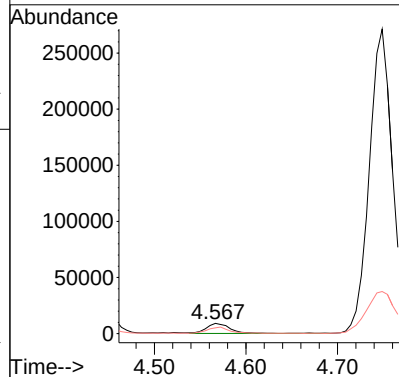
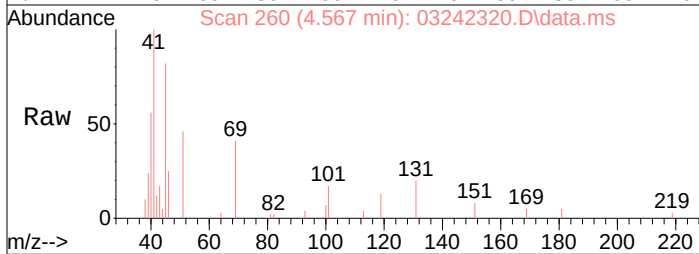
Tgt Ion:	45	Resp:	1951796
Ion Ratio	Lower	Upper	
45	100		
46	33.8	13.8	53.8





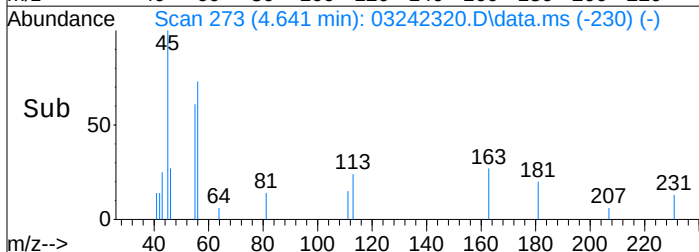
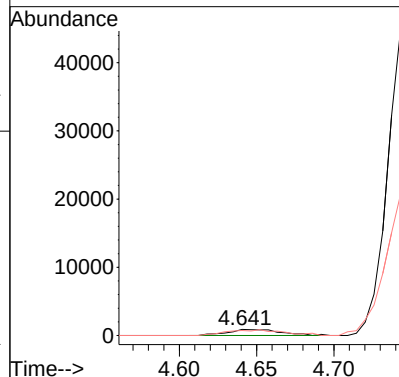
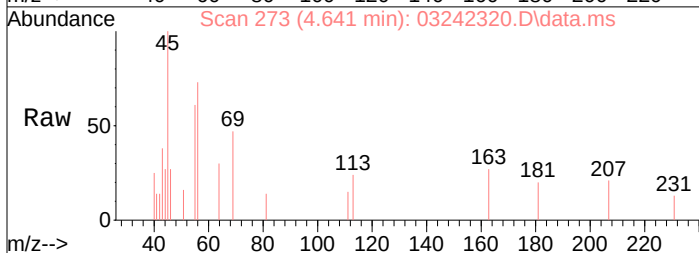
#11
Acetonitrile
Concen: 0.36 ng
RT: 4.57 min Scan# 260
Delta R.T. -0.011 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:59

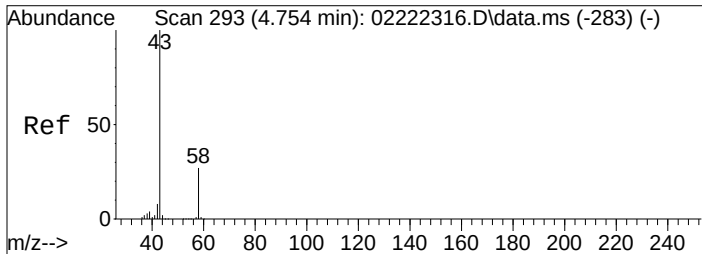
Tgt Ion: 41 Resp: 16582
Ion Ratio Lower Upper
41 100
40 57.9 34.4 74.4



#12
Acrolein
Concen: 0.15 ng
RT: 4.64 min Scan# 273
Delta R.T. -0.006 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:59

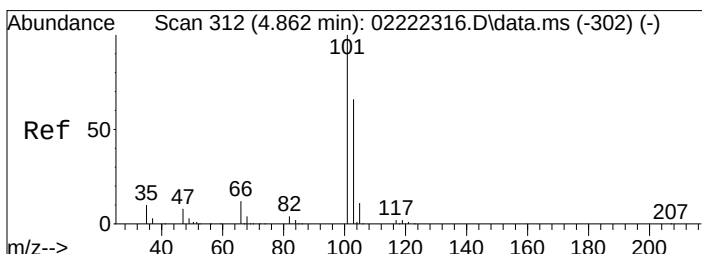
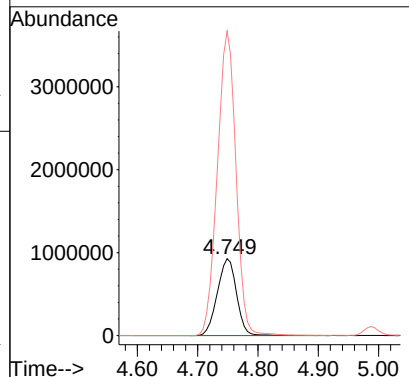
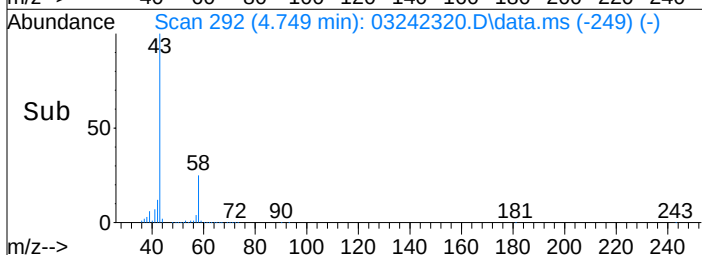
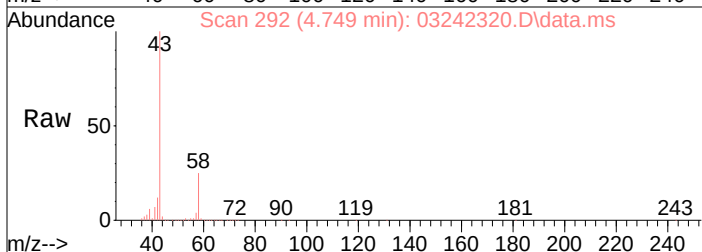
Tgt Ion: 56 Resp: 2126
Ion Ratio Lower Upper
56 100
55 100.4 50.9 90.9#





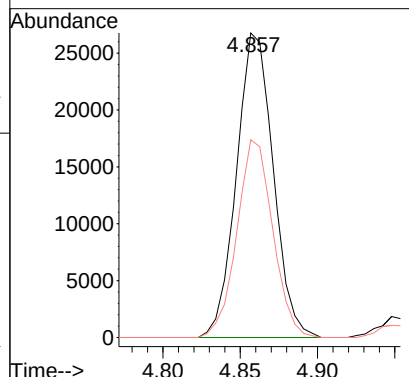
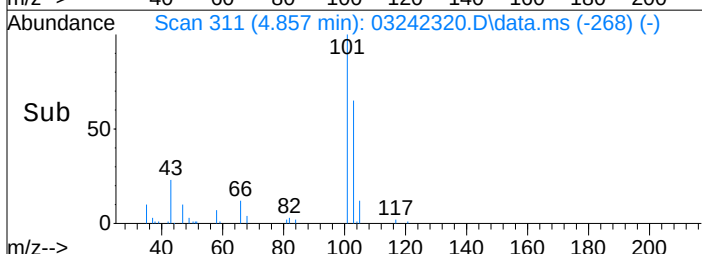
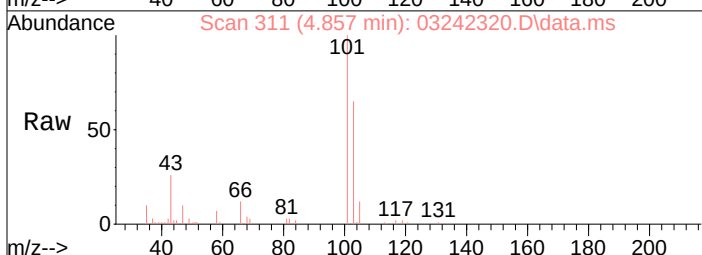
#13
Acetone
Concen: 136.93 ng
RT: 4.75 min Scan# 292
Delta R.T. -0.006 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:59

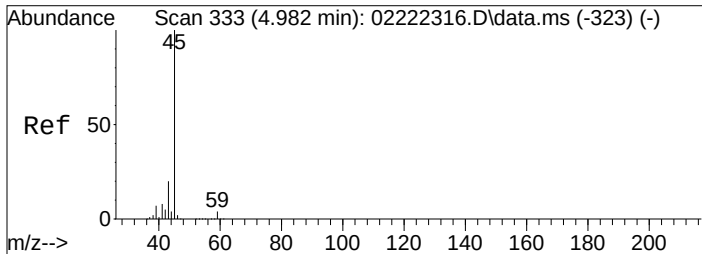
Tgt Ion: 58 Resp: 2052879
Ion Ratio Lower Upper
58 100
43 384.6 337.8 397.8



#14
Trichlorofluoromethane
Concen: 1.09 ng
RT: 4.86 min Scan# 311
Delta R.T. -0.006 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:59

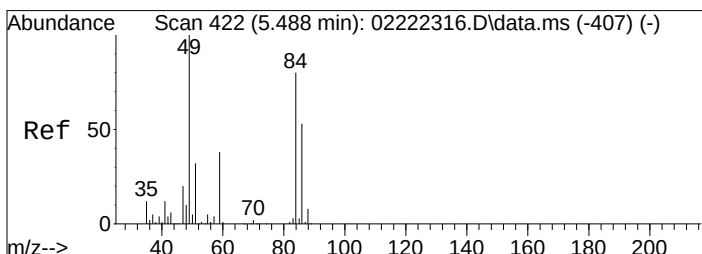
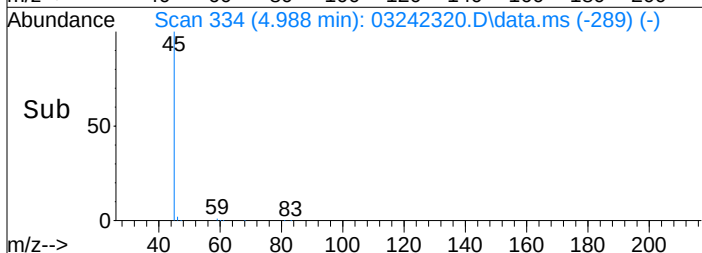
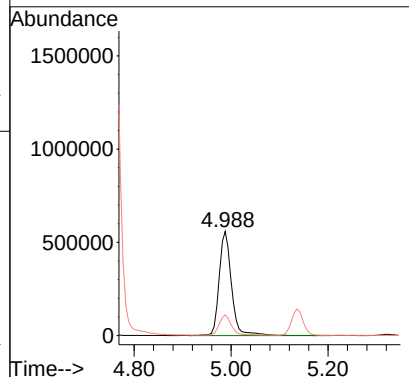
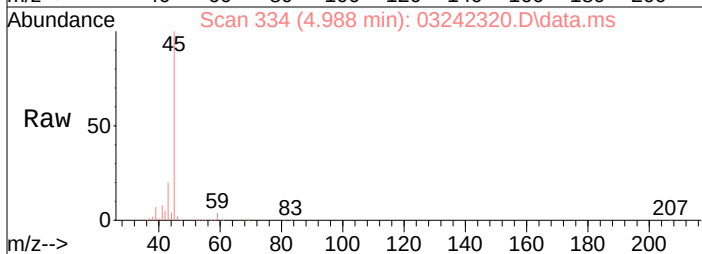
Tgt Ion: 101 Resp: 44403
Ion Ratio Lower Upper
101 100
103 63.4 45.2 85.2





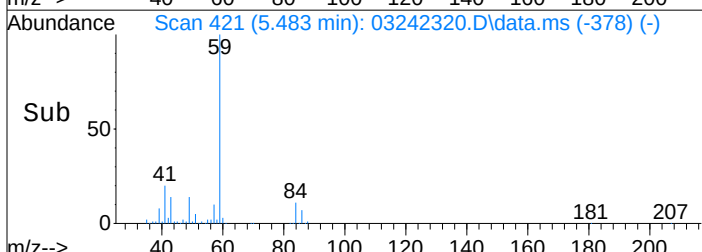
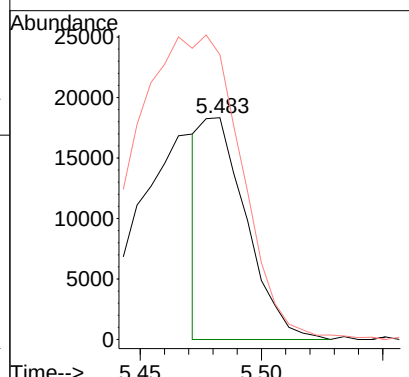
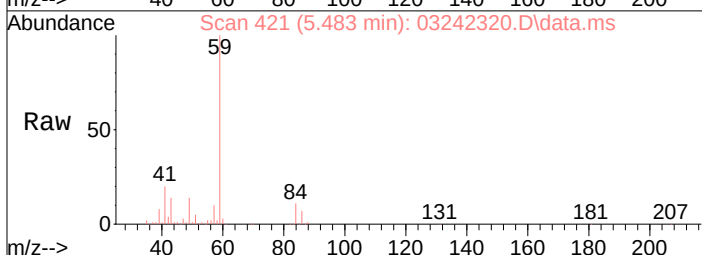
#15
 2-Propanol (Isopropanol)
 Concen: 16.23 ng
 RT: 4.99 min Scan# 334
 Delta R.T. 0.006 min
 Lab File: 03242320.D
 Acq: 24 Mar 2023 17:59

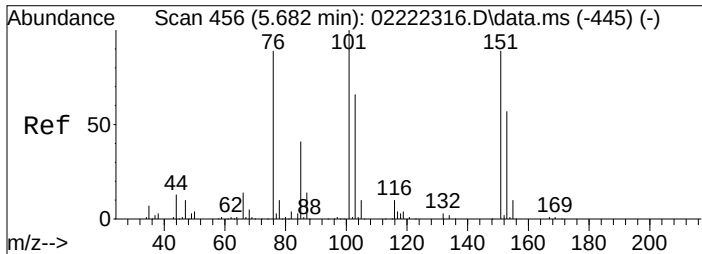
Tgt Ion: 45 Resp: 982376
 Ion Ratio Lower Upper
 45 100
 43 19.6 0.0 39.7



#19
 Methylene Chloride
 Concen: 1.08 ng m
 RT: 5.48 min Scan# 421
 Delta R.T. -0.006 min
 Lab File: 03242320.D
 Acq: 24 Mar 2023 17:59

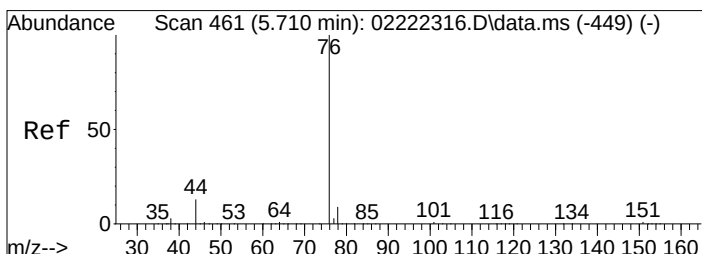
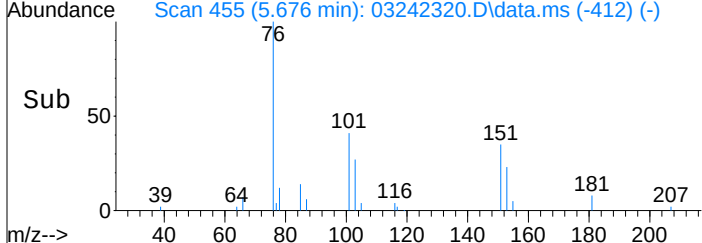
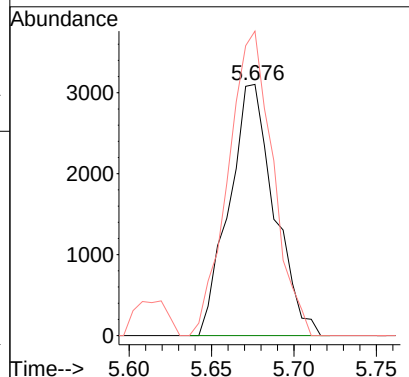
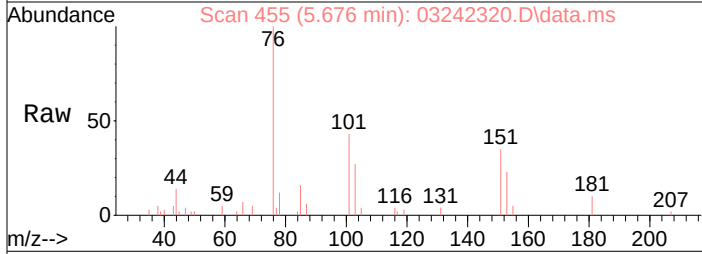
Tgt Ion: 84 Resp: 23788
 Ion Ratio Lower Upper
 84 100
 49 131.1 101.3 151.3





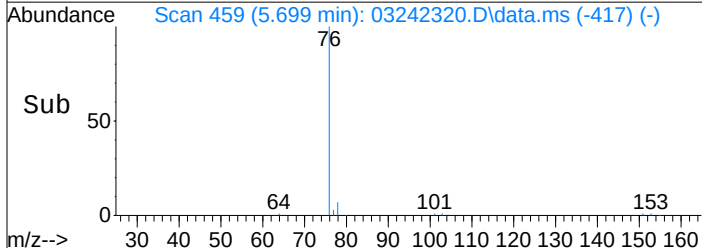
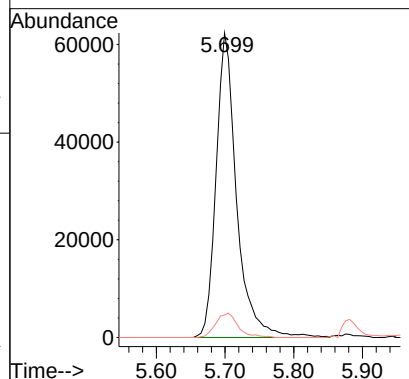
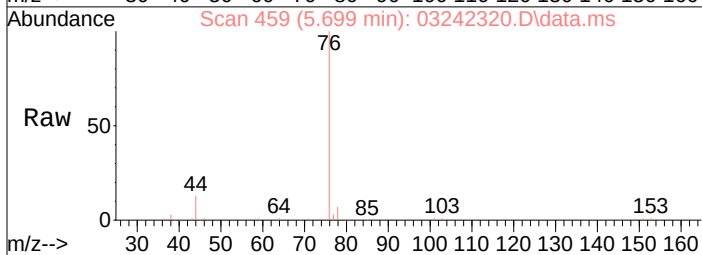
#21
 Trichlorotrifluoroethane
 Concen: 0.28 ng
 RT: 5.68 min Scan# 455
 Delta R.T. -0.006 min
 Lab File: 03242320.D
 Acq: 24 Mar 2023 17:59

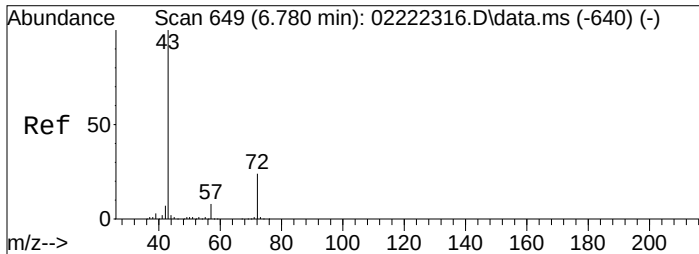
Tgt Ion: 151 Resp: 5912
 Ion Ratio Lower Upper
 151 100
 101 120.1 96.3 136.3



#22
 Carbon Disulfide
 Concen: 1.49 ng
 RT: 5.70 min Scan# 459
 Delta R.T. -0.011 min
 Lab File: 03242320.D
 Acq: 24 Mar 2023 17:59

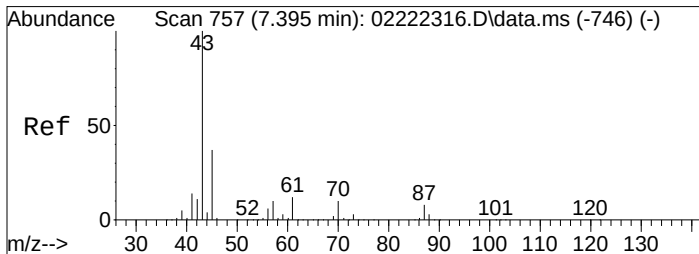
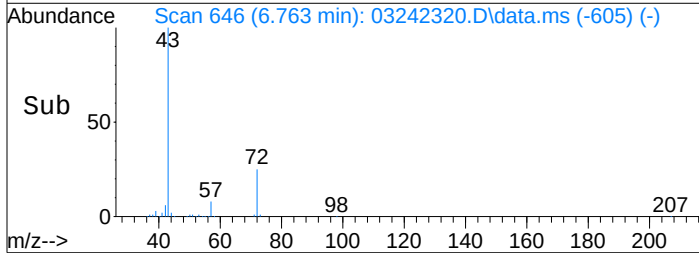
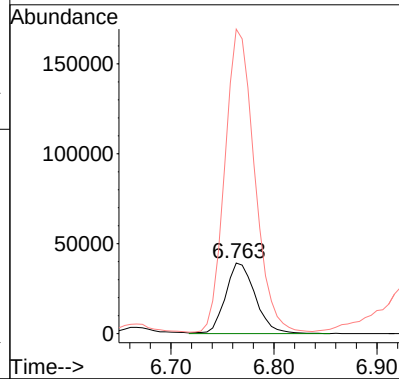
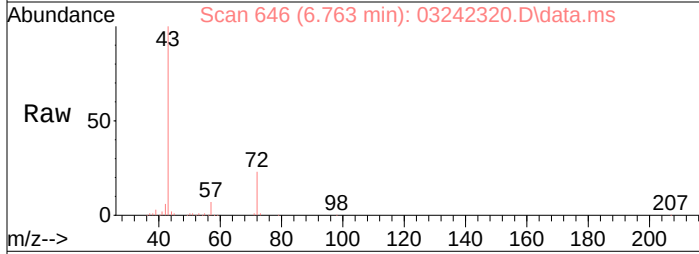
Tgt Ion: 76 Resp: 129550
 Ion Ratio Lower Upper
 76 100
 78 8.7 0.0 29.3





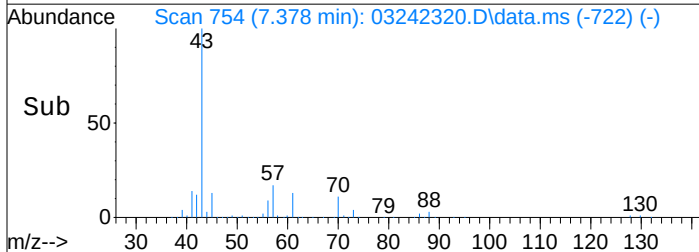
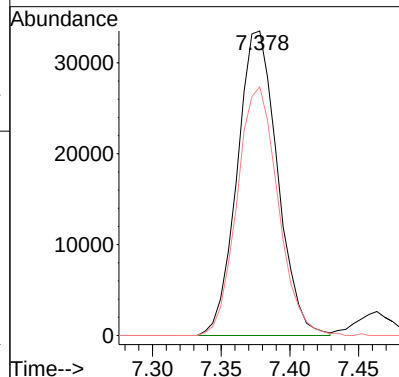
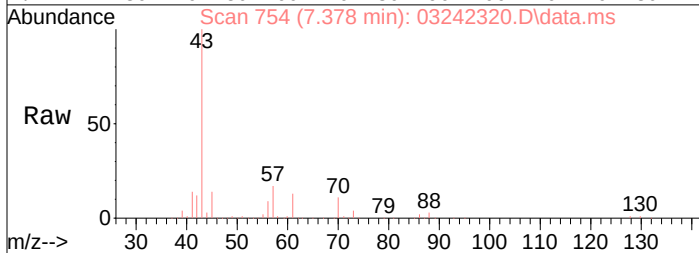
#27
2-Butanone (MEK)
Concen: 5.91 ng
RT: 6.76 min Scan# 646
Delta R.T. -0.017 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:59

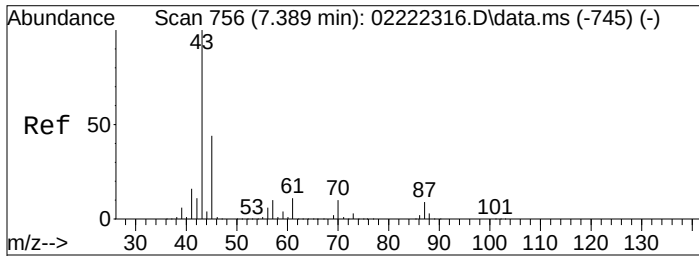
Tgt Ion: 72 Resp: 78630
Ion Ratio Lower Upper
72 100
43 427.8 400.5 440.5



#30
Ethyl Acetate
Concen: 7.82 ng
RT: 7.38 min Scan# 754
Delta R.T. -0.017 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:59

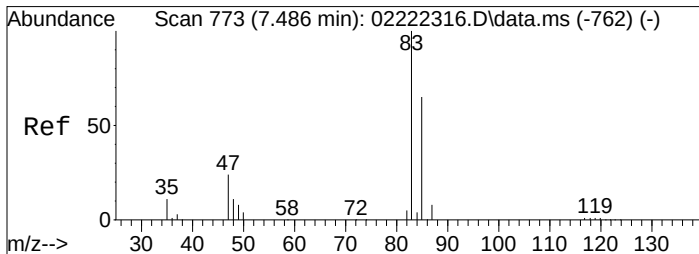
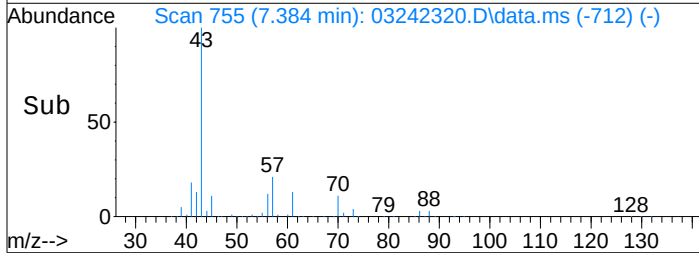
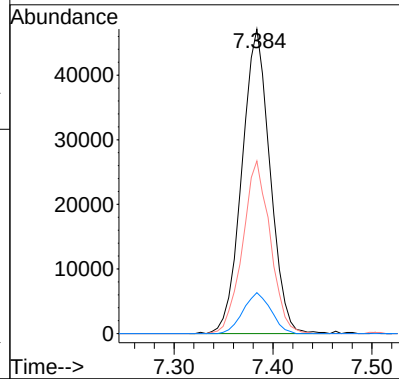
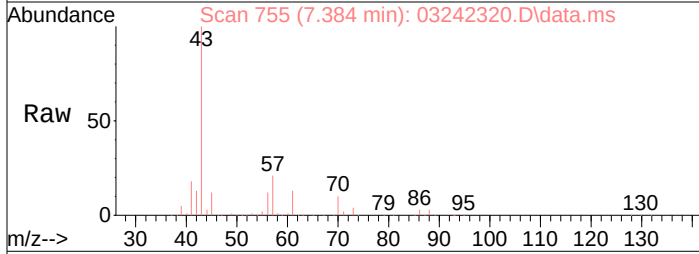
Tgt Ion: 61 Resp: 68403
Ion Ratio Lower Upper
61 100
70 82.9 65.6 105.6





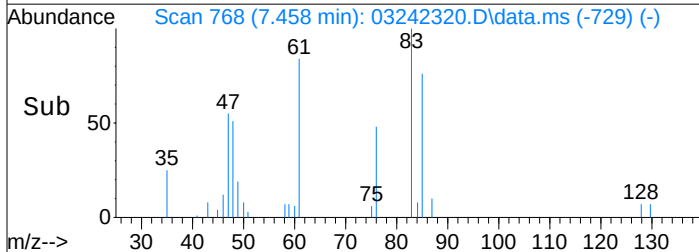
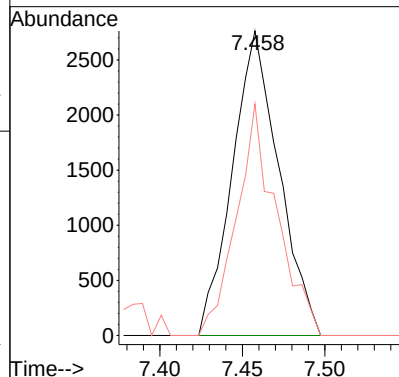
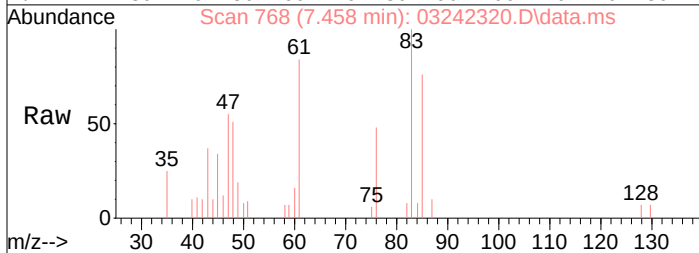
#31
n-Hexane
Concen: 2.76 ng
RT: 7.38 min Scan# 755
Delta R.T. -0.006 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:59

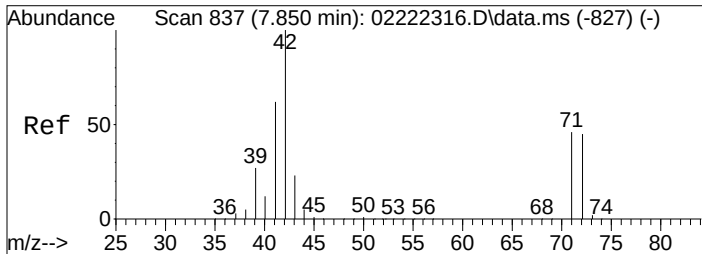
Tgt Ion: 57 Resp: 92857
Ion Ratio Lower Upper
57 100
56 55.7 44.0 66.0
86 13.3 11.5 17.3



#32
Chloroform
Concen: 0.14 ng
RT: 7.46 min Scan# 768
Delta R.T. -0.028 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:59

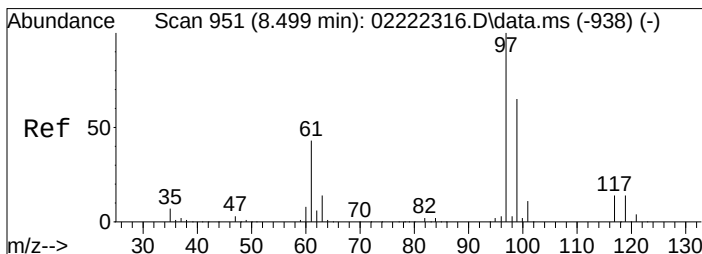
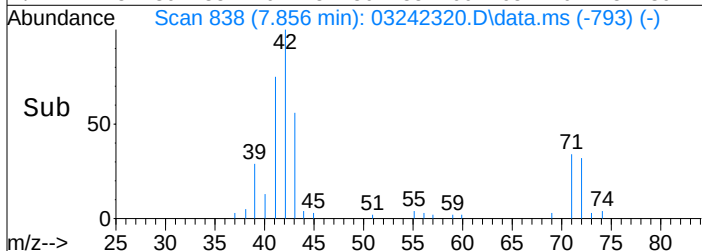
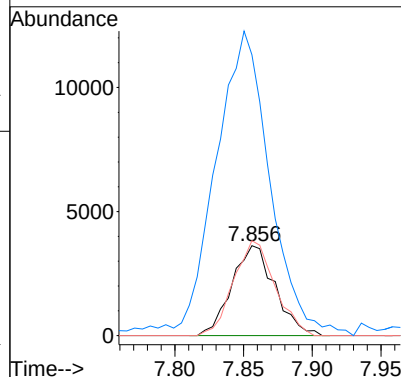
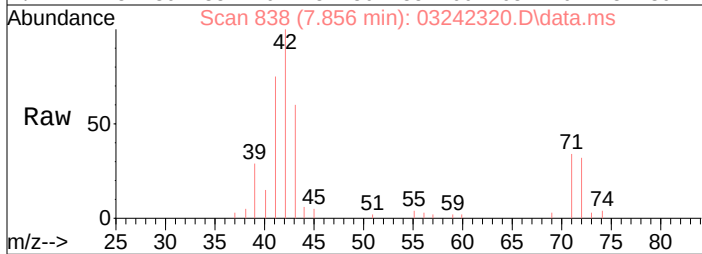
Tgt Ion: 83 Resp: 5426
Ion Ratio Lower Upper
83 100
85 65.5 45.0 85.0





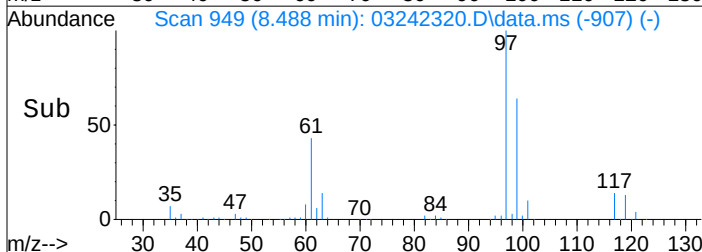
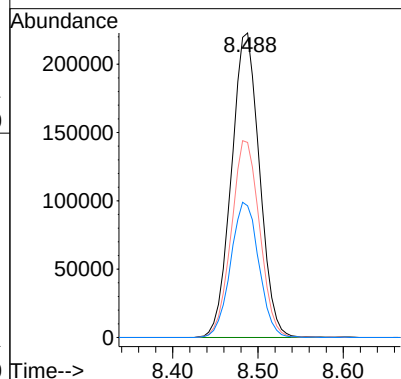
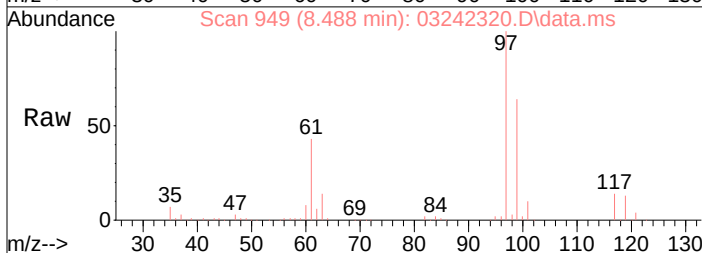
#34
 Tetrahydrofuran (THF)
 Concen: 0.58 ng
 RT: 7.86 min Scan# 838
 Delta R.T. 0.006 min
 Lab File: 03242320.D
 Acq: 24 Mar 2023 17:59

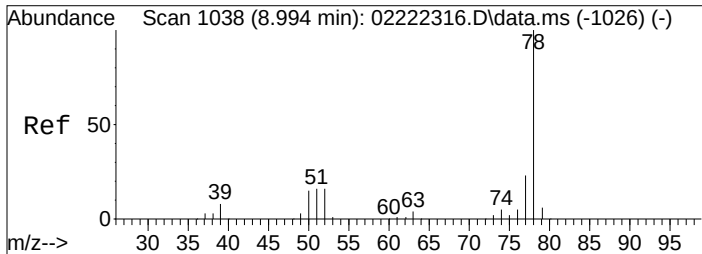
Tgt Ion:	72	Resp:	7919
Ion Ratio	Lower	Upper	
72	100		
71	101.3	79.8	119.8
42	432.3	199.0	239.0#



#38
 1,1,1-Trichloroethane
 Concen: 14.29 ng
 RT: 8.49 min Scan# 949
 Delta R.T. -0.011 min
 Lab File: 03242320.D
 Acq: 24 Mar 2023 17:59

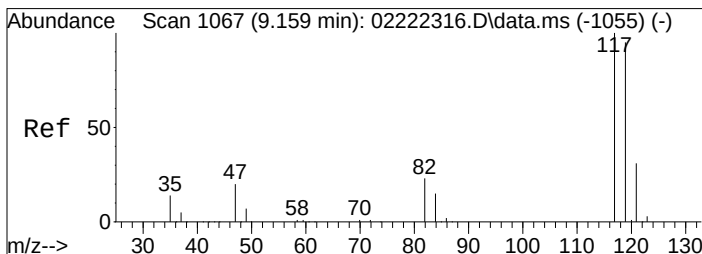
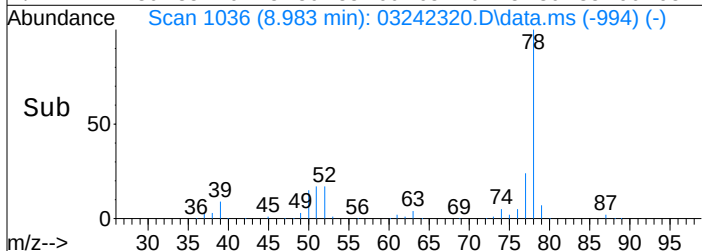
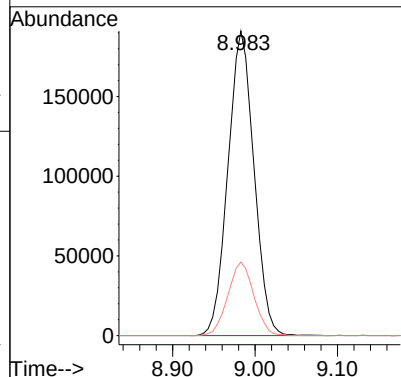
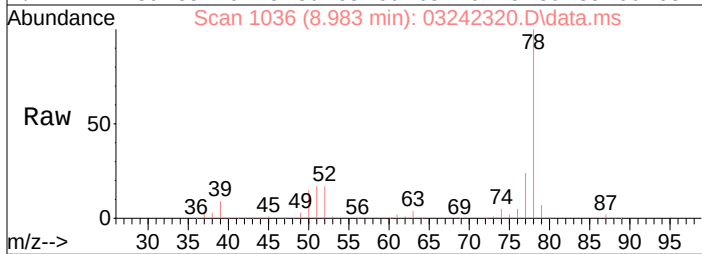
Tgt Ion:	97	Resp:	511161
Ion Ratio	Lower	Upper	
97	100		
99	65.0	44.9	84.9
61	44.5	23.5	63.5





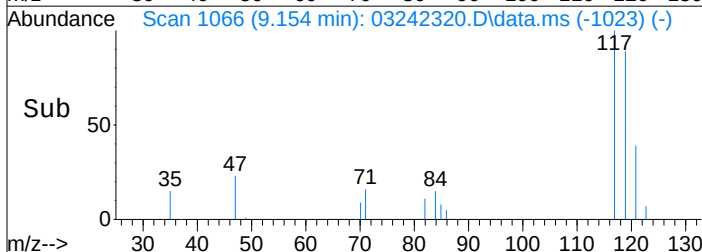
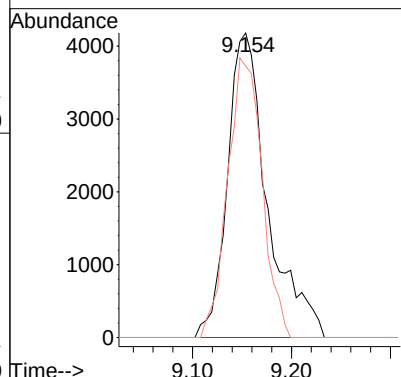
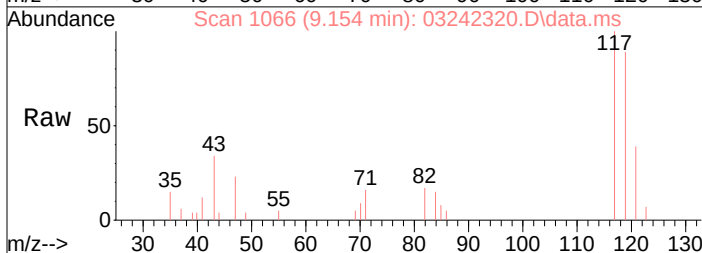
#41
Benzene
Concen: 4.99 ng
RT: 8.98 min Scan# 1036
Delta R.T. -0.011 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:59

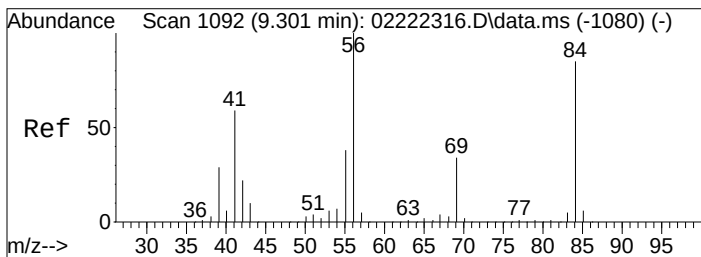
Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.1	3.7	43.7



#42
Carbon Tetrachloride
Concen: 0.37 ng
RT: 9.15 min Scan# 1066
Delta R.T. -0.006 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:59

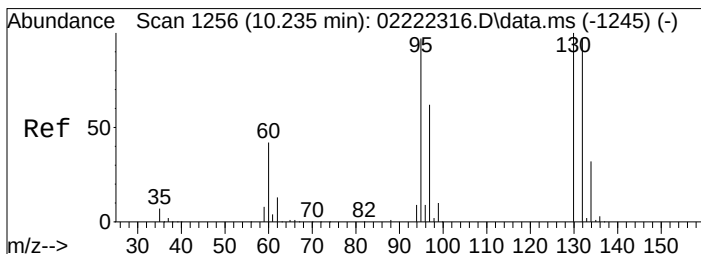
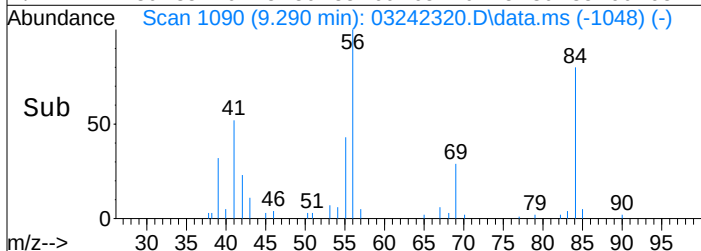
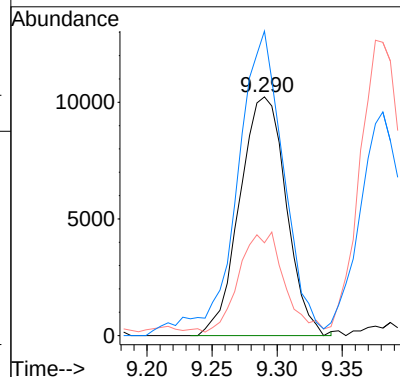
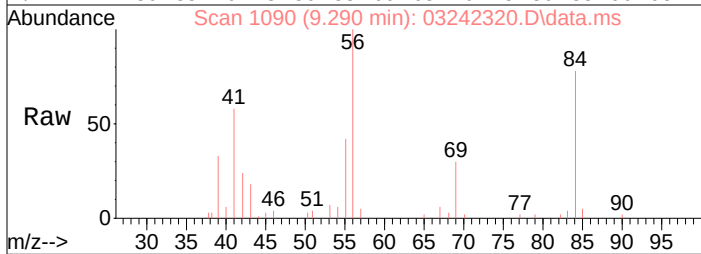
Tgt Ion	Ratio	Lower	Upper
117	100		
119	79.2	75.7	115.7





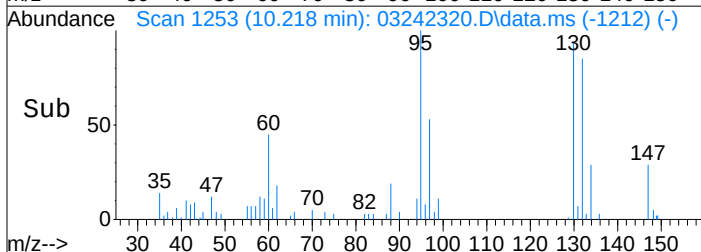
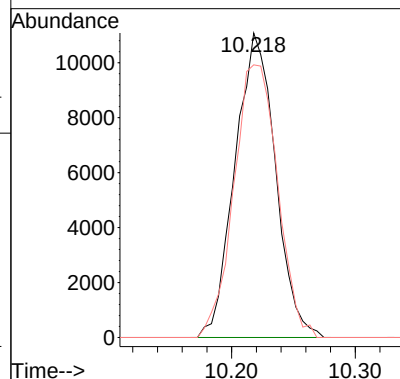
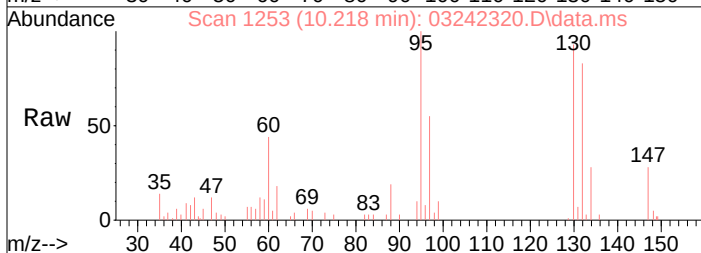
#43
Cyclohexane
Concen: 0.82 ng
RT: 9.29 min Scan# 1090
Delta R.T. -0.011 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:59

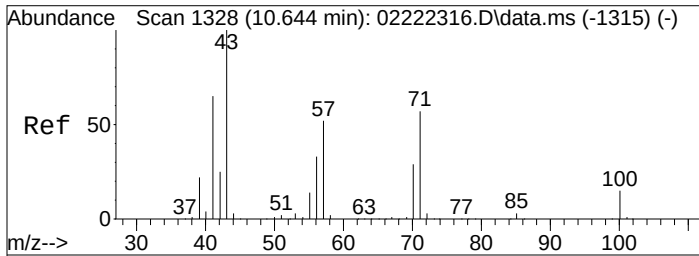
Tgt Ion: 84 Resp: 25403
Ion Ratio Lower Upper
84 100
69 40.2 20.0 60.0
56 128.3 98.5 138.5



#47
Trichloroethene
Concen: 1.03 ng
RT: 10.22 min Scan# 1253
Delta R.T. -0.017 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:59

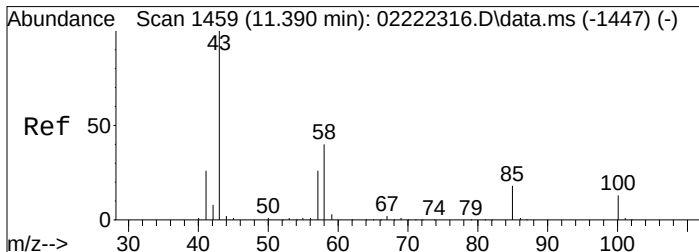
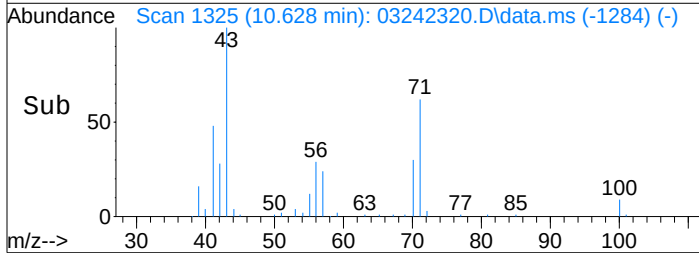
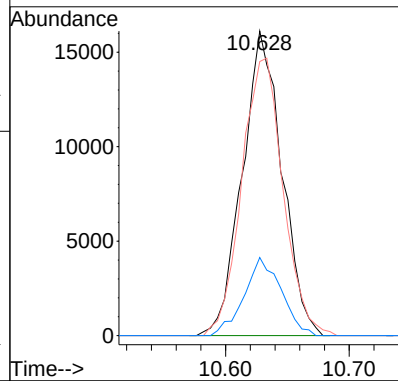
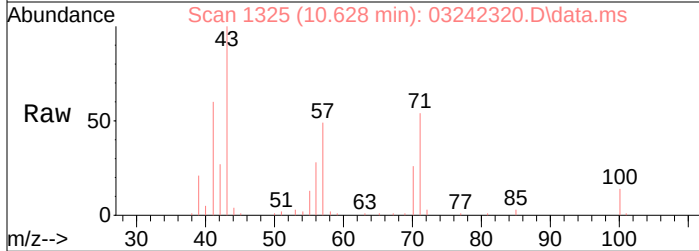
Tgt Ion: 130 Resp: 25282
Ion Ratio Lower Upper
130 100
132 96.7 76.3 116.3





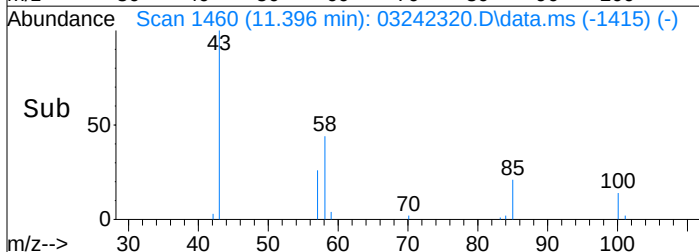
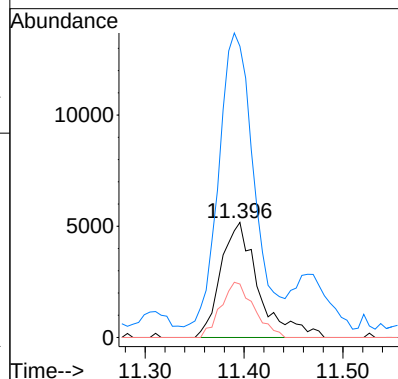
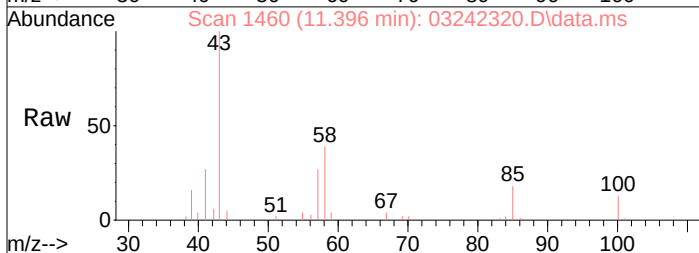
#51
n-Heptane
Concen: 1.77 ng
RT: 10.63 min Scan# 1325
Delta R.T. -0.017 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:59

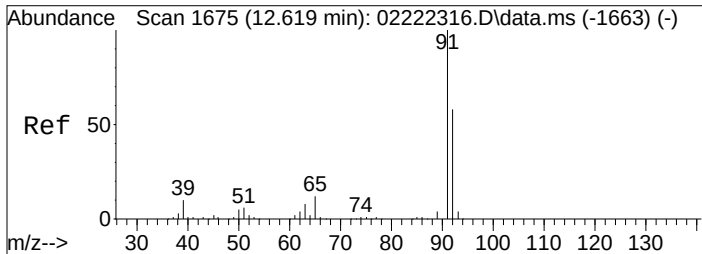
Tgt Ion: 71 Resp: 35947
Ion Ratio Lower Upper
71 100
57 95.1 71.7 111.7
100 24.0 5.8 45.8



#53
4-Methyl-2-pentanone
Concen: 0.76 ng
RT: 11.40 min Scan# 1460
Delta R.T. 0.006 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:59

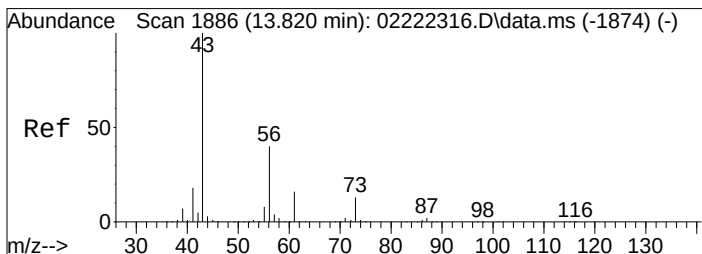
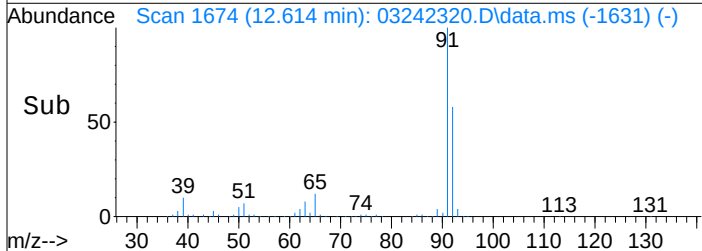
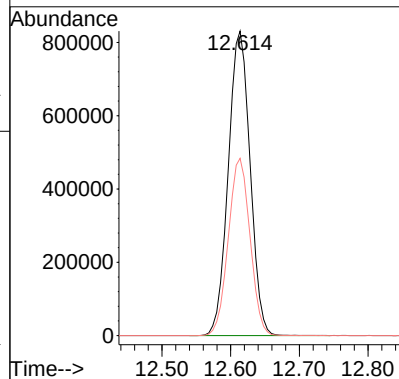
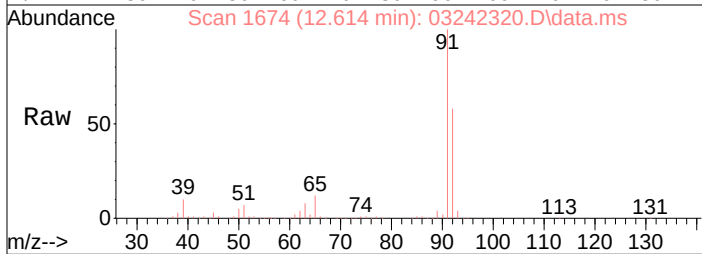
Tgt Ion: 58 Resp: 13741
Ion Ratio Lower Upper
58 100
85 42.0 38.6 58.0
43 243.7 202.2 303.2





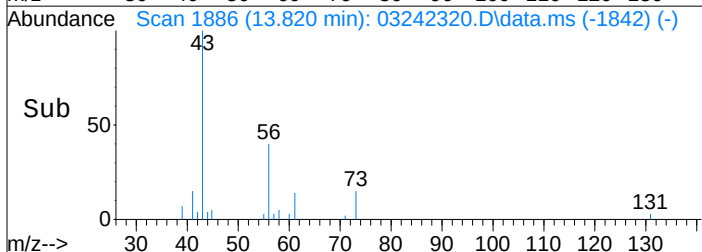
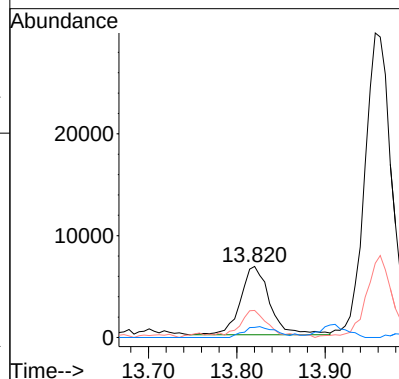
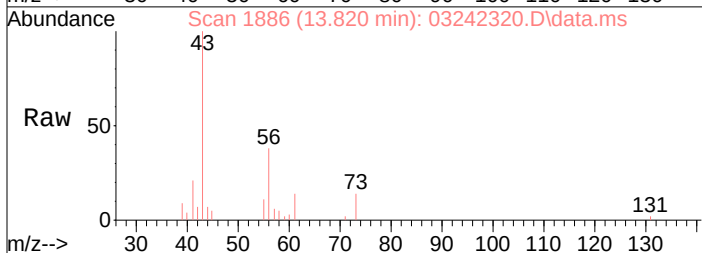
#58
Toluene
Concen: 17.60 ng
RT: 12.61 min Scan# 1674
Delta R.T. -0.006 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:59

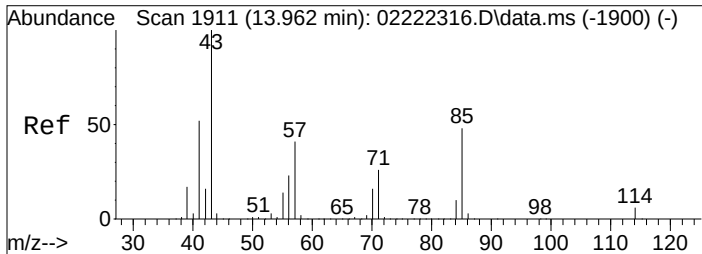
Tgt Ion: 91 Resp: 1837050
Ion Ratio Lower Upper
91 100
92 57.9 38.0 78.0



#62
n-Butyl Acetate
Concen: 0.27 ng
RT: 13.82 min Scan# 1886
Delta R.T. 0.000 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:59

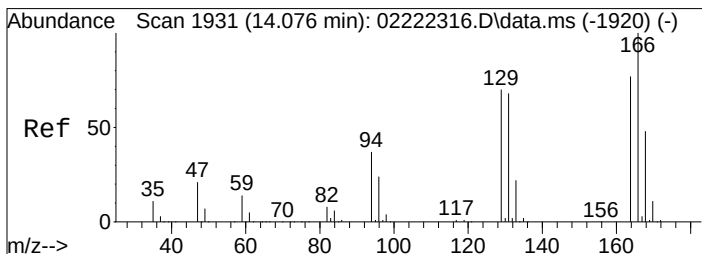
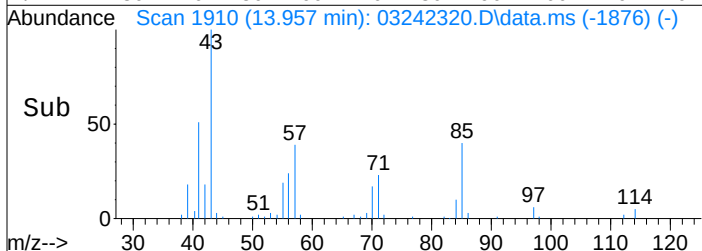
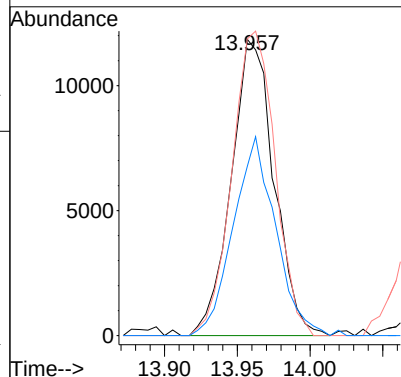
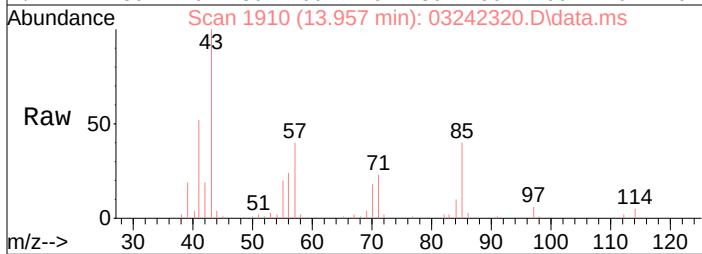
Tgt Ion: 43 Resp: 15522
Ion Ratio Lower Upper
43 100
56 39.8 20.0 60.0
73 16.8 0.0 33.2





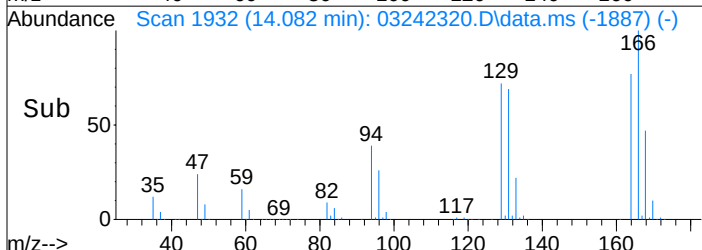
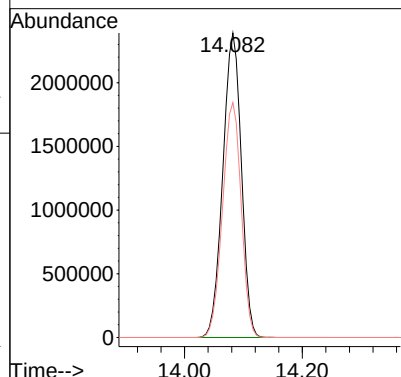
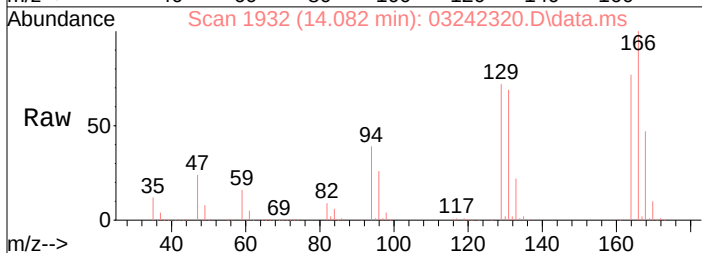
#63
n-Octane
Concen: 1.18 ng
RT: 13.96 min Scan# 1910
Delta R.T. -0.006 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:59

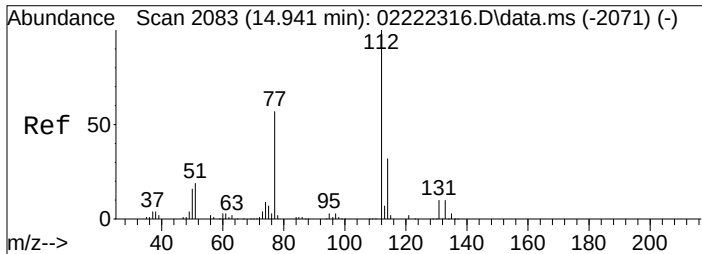
Tgt Ion:	57	Resp:	24289
Ion Ratio		Lower	Upper
57	100		
85	103.5	94.1	141.1
71	66.6	52.6	79.0



#64
Tetrachloroethene
Concen: 163.62 ng
RT: 14.08 min Scan# 1932
Delta R.T. 0.006 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:59

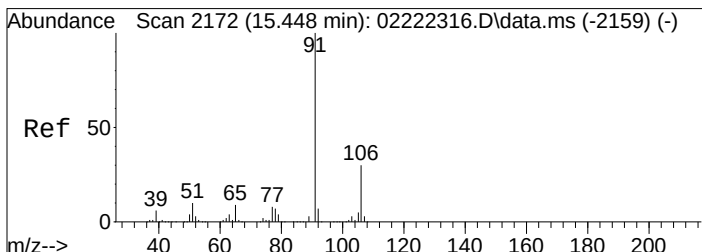
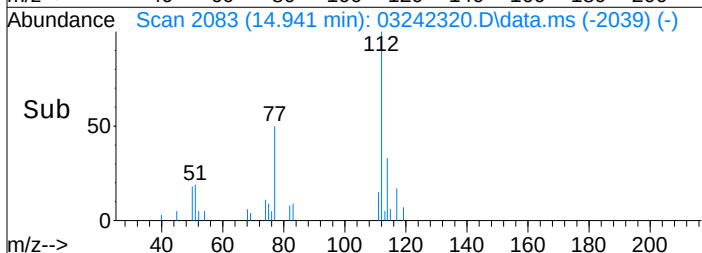
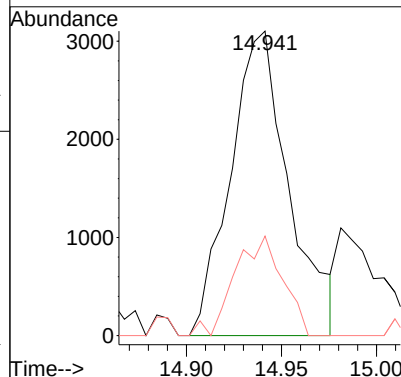
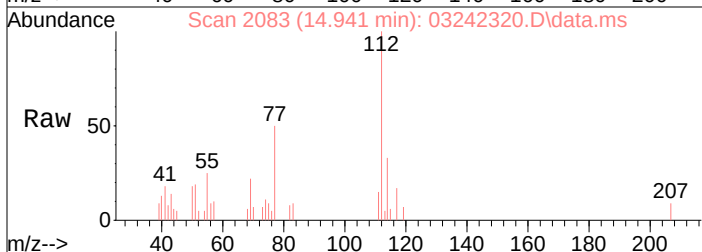
Tgt Ion:	166	Resp:	5194409
Ion Ratio		Lower	Upper
166	100		
164	77.7	57.3	97.3





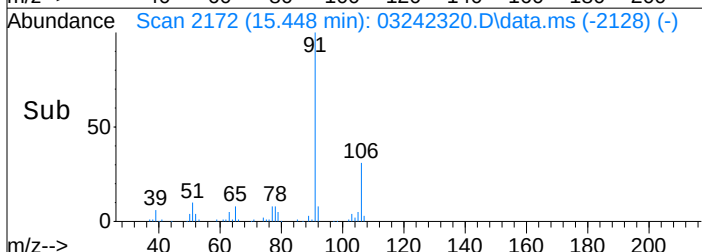
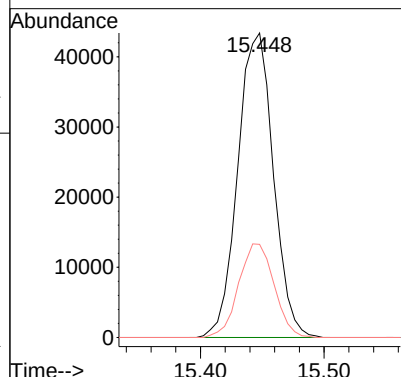
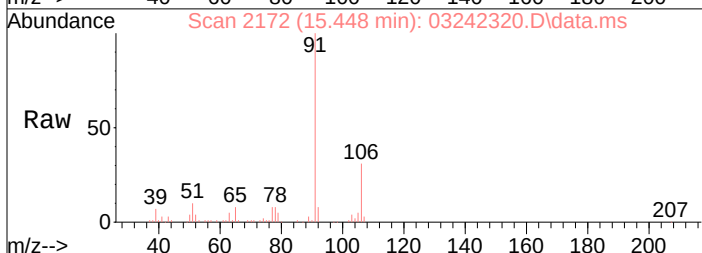
#65
 Chlorobenzene
 Concen: 0.10 ng
 RT: 14.94 min Scan# 2083
 Delta R.T. 0.000 min
 Lab File: 03242320.D
 Acq: 24 Mar 2023 17:59

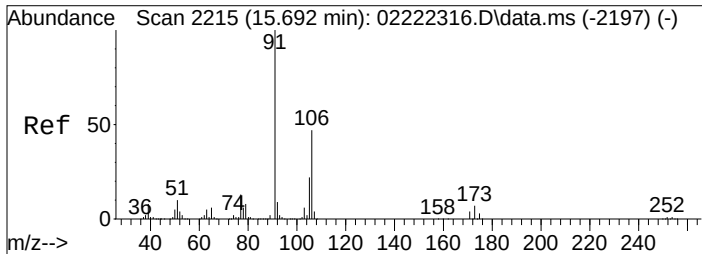
Tgt Ion:	112	Resp:	6635
Ion Ratio	Lower	Upper	
112	100		
114	26.8	12.1	52.1



#66
 Ethylbenzene
 Concen: 0.70 ng
 RT: 15.45 min Scan# 2172
 Delta R.T. 0.000 min
 Lab File: 03242320.D
 Acq: 24 Mar 2023 17:59

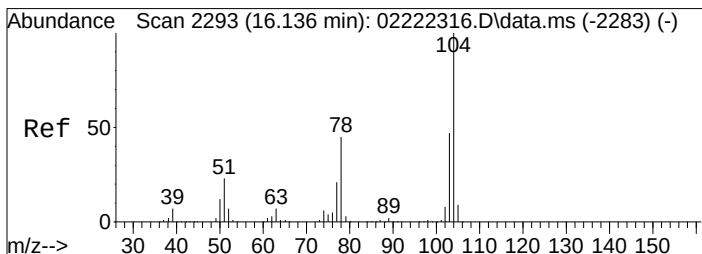
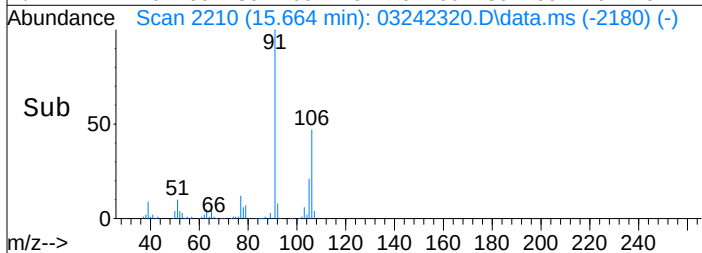
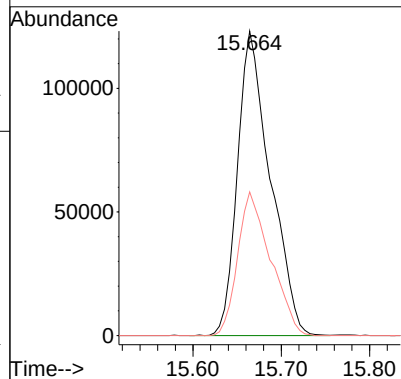
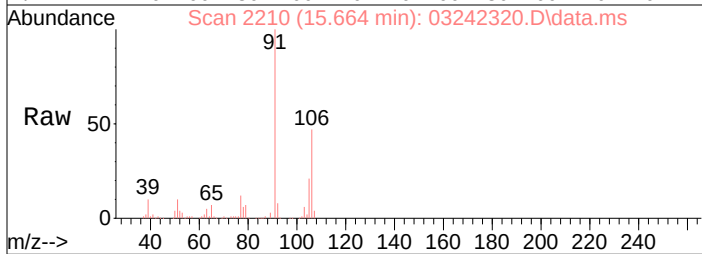
Tgt Ion:	91	Resp:	86950
Ion Ratio	Lower	Upper	
91	100		
106	30.6	10.4	50.4





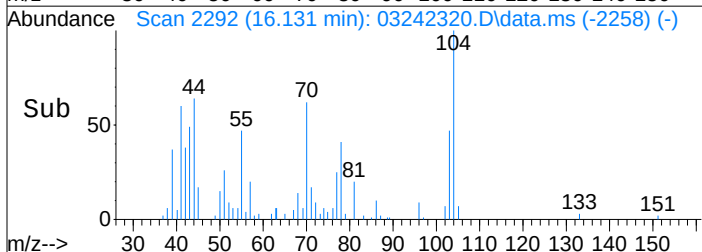
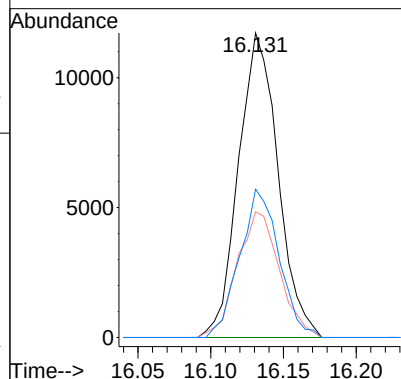
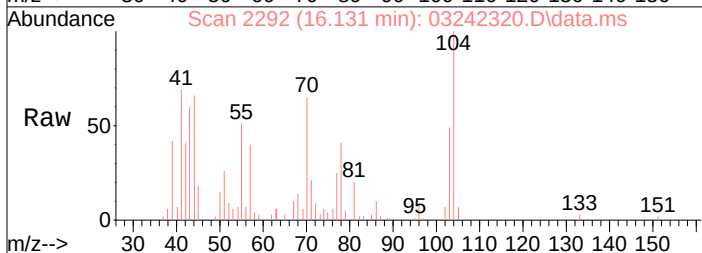
#67
m- & p-Xylenes
Concen: 3.17 ng
RT: 15.66 min Scan# 2210
Delta R.T. -0.028 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:59

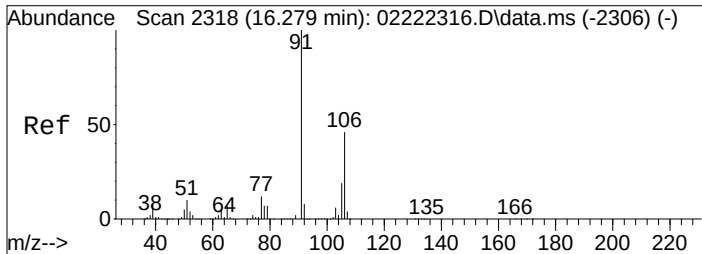
Tgt Ion: 91 Resp: 317198
Ion Ratio Lower Upper
91 100
106 47.4 26.2 66.2



#69
Styrene
Concen: 0.32 ng
RT: 16.13 min Scan# 2292
Delta R.T. -0.006 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:59

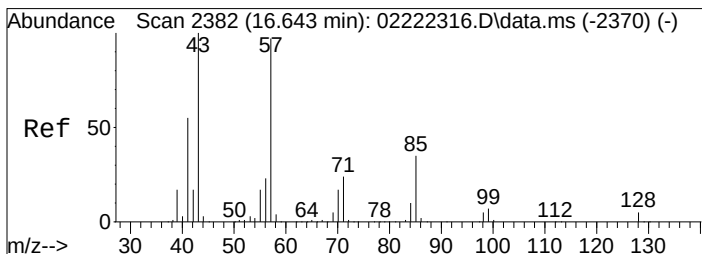
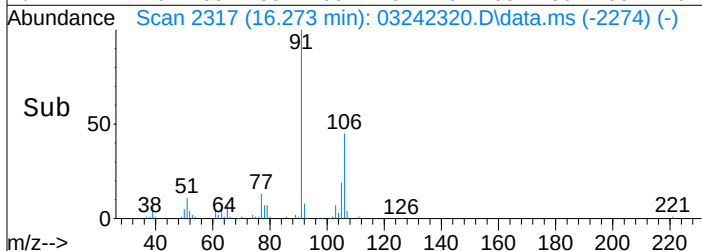
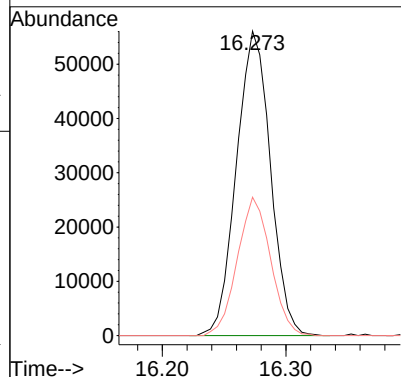
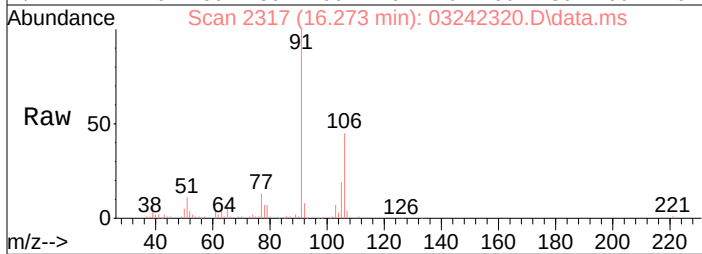
Tgt Ion: 104 Resp: 22137
Ion Ratio Lower Upper
104 100
78 44.1 24.7 64.7
103 48.6 27.8 67.8





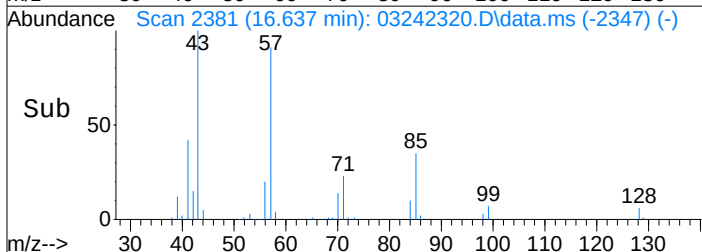
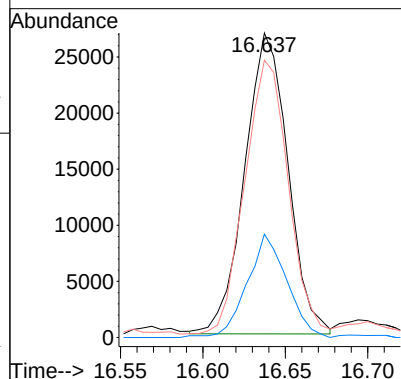
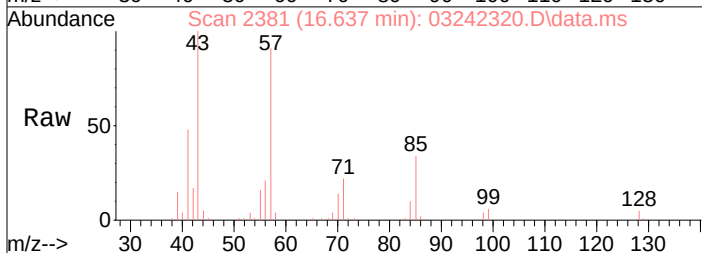
#70
o-Xylene
Concen: 1.12 ng
RT: 16.27 min Scan# 2317
Delta R.T. -0.006 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:59

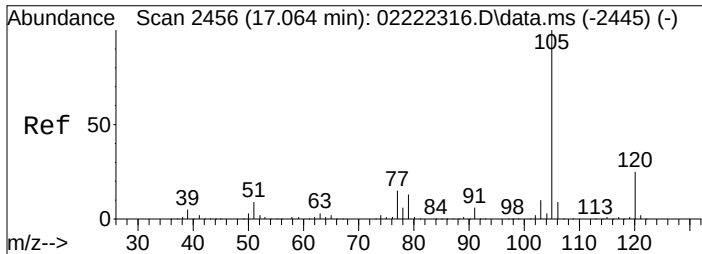
Tgt Ion: 91 Resp: 107454
Ion Ratio Lower Upper
91 100
106 44.5 25.4 65.4



#71
n-Nonane
Concen: 1.06 ng
RT: 16.64 min Scan# 2381
Delta R.T. -0.006 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:59

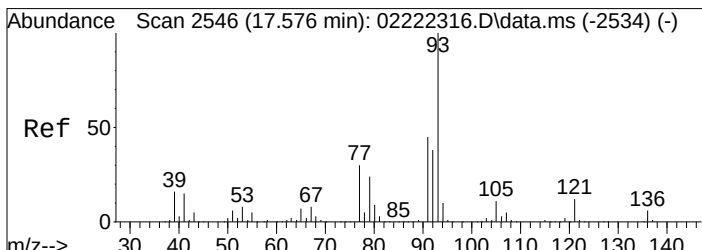
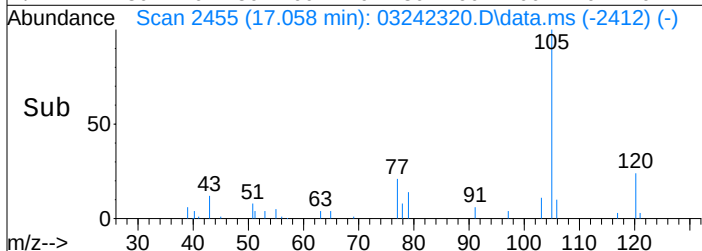
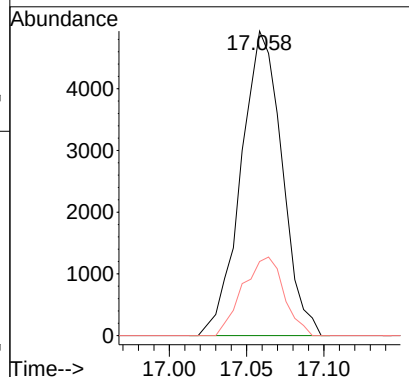
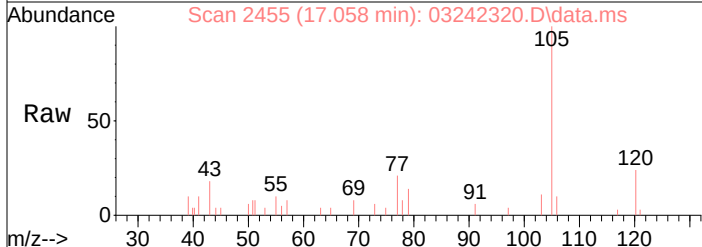
Tgt Ion: 43 Resp: 49024
Ion Ratio Lower Upper
43 100
57 91.4 74.2 114.2
85 31.3 14.2 54.2





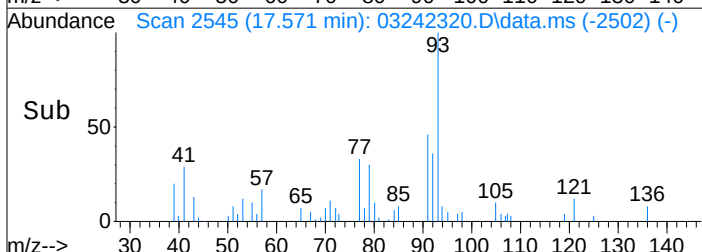
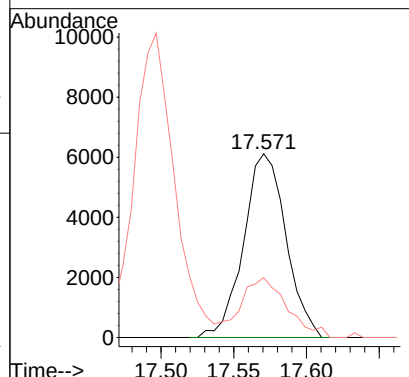
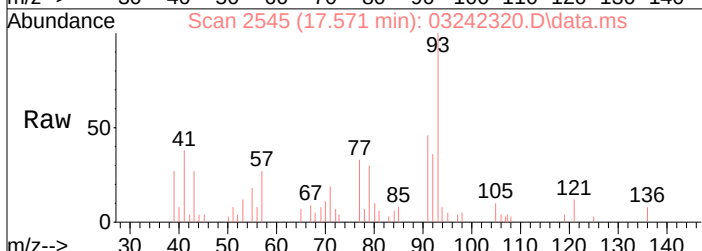
#74
Cumene
Concen: 0.08 ng
RT: 17.06 min Scan# 2455
Delta R.T. -0.006 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:59

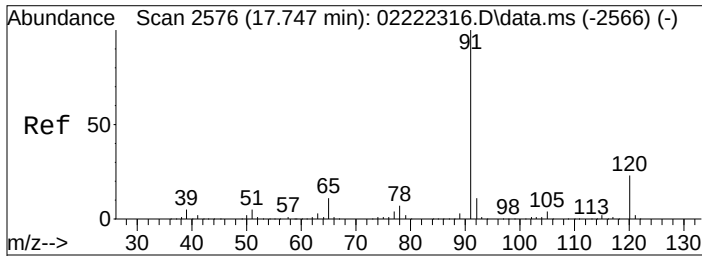
Tgt Ion:	105	Resp:	9142
Ion Ratio	Lower	Upper	
105	100		
120	25.9	5.2	45.2



#75
alpha-Pinene
Concen: 0.23 ng
RT: 17.57 min Scan# 2545
Delta R.T. -0.006 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:59

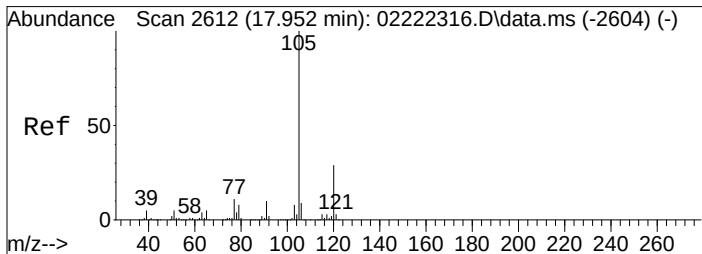
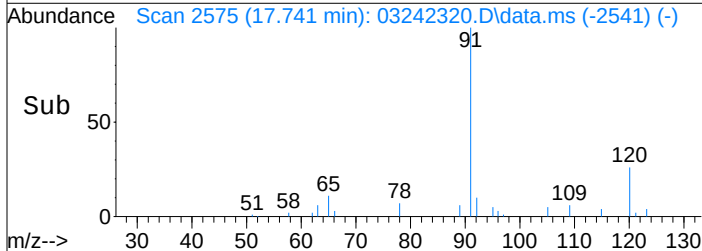
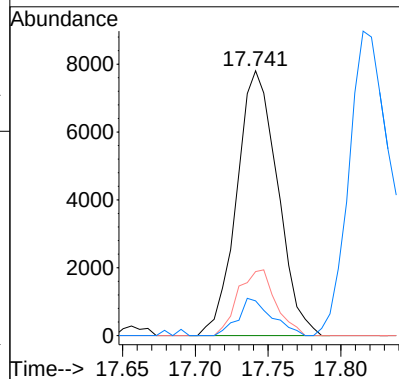
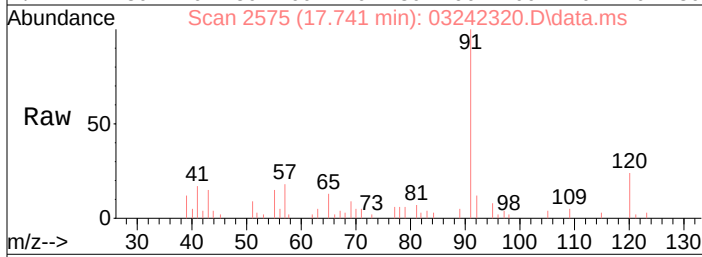
Tgt Ion:	93	Resp:	12395
Ion Ratio	Lower	Upper	
93	100		
77	34.5	11.1	51.1





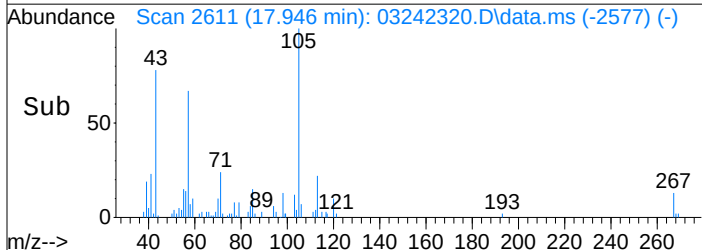
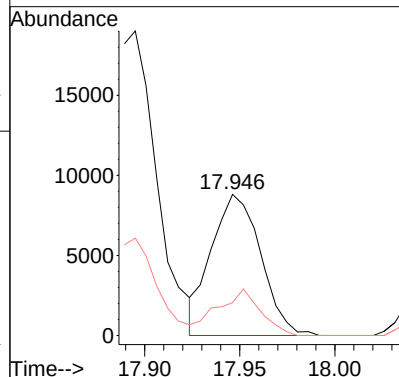
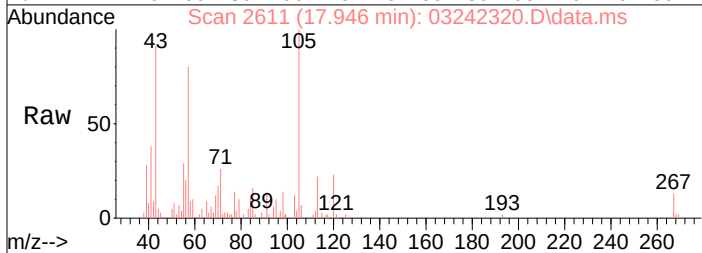
#76
n-Propylbenzene
Concen: 0.11 ng
RT: 17.74 min Scan# 2575
Delta R.T. -0.006 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:59

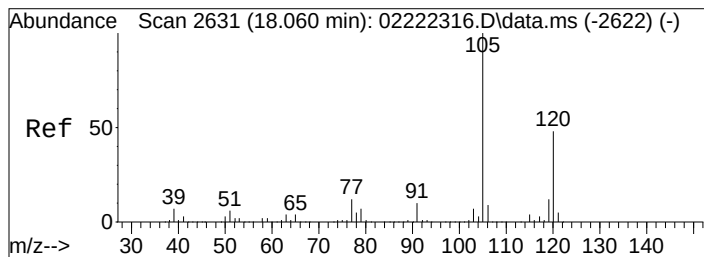
Tgt Ion:	91	Resp:	15261
Ion Ratio	Lower	Upper	
91	100		
120	22.8	2.7	42.7
65	11.6	0.0	30.7



#78
4-Ethyltoluene
Concen: 0.14 ng
RT: 17.95 min Scan# 2611
Delta R.T. -0.006 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:59

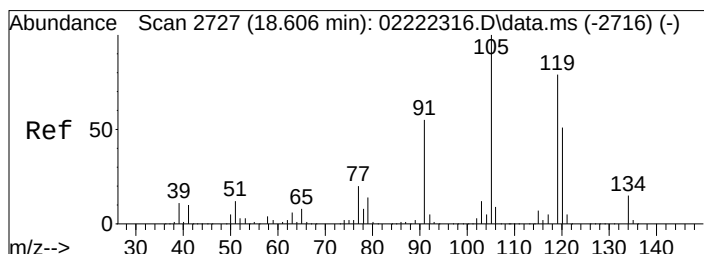
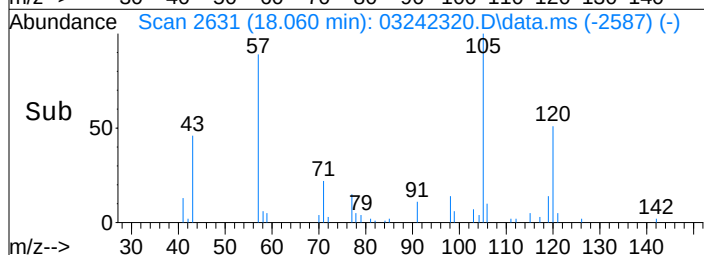
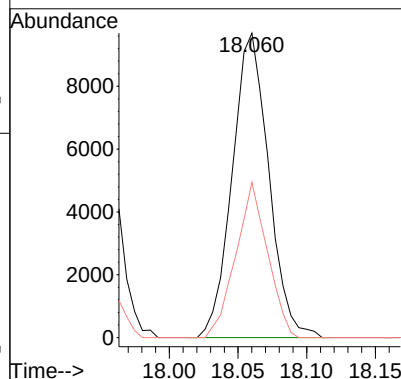
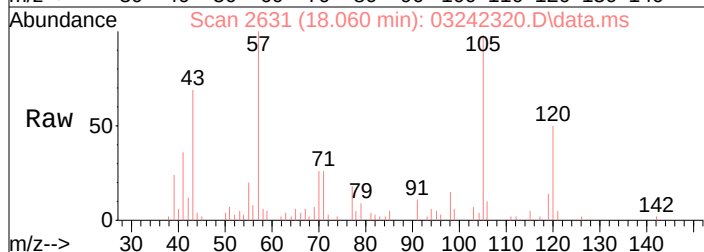
Tgt Ion:	105	Resp:	15951
Ion Ratio	Lower	Upper	
105	100		
120	28.8	9.1	49.1





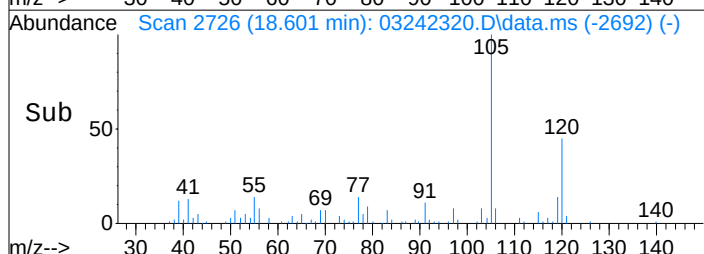
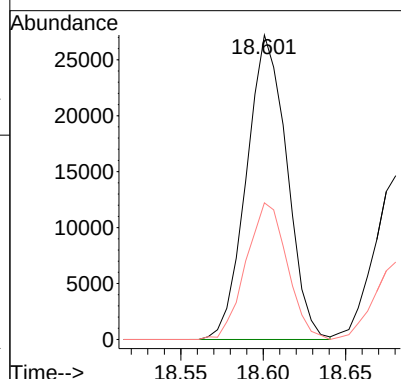
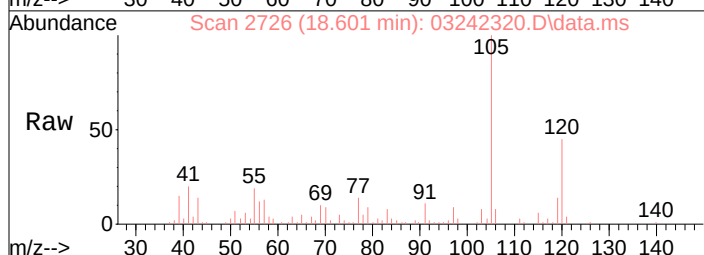
#79
 1,3,5-Trimethylbenzene
 Concen: 0.18 ng
 RT: 18.06 min Scan# 2631
 Delta R.T. 0.000 min
 Lab File: 03242320.D
 Acq: 24 Mar 2023 17:59

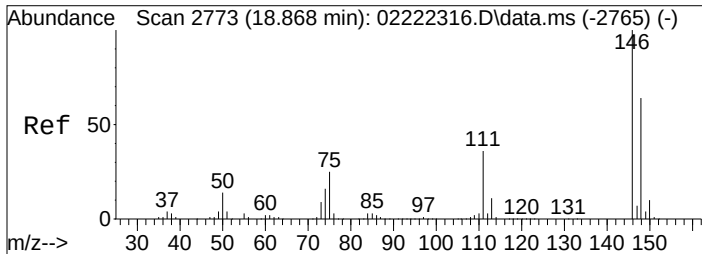
Tgt Ion:105 Resp: 17899
 Ion Ratio Lower Upper
 105 100
 120 44.5 28.4 68.4



#82
 1,2,4-Trimethylbenzene
 Concen: 0.48 ng
 RT: 18.60 min Scan# 2726
 Delta R.T. -0.006 min
 Lab File: 03242320.D
 Acq: 24 Mar 2023 17:59

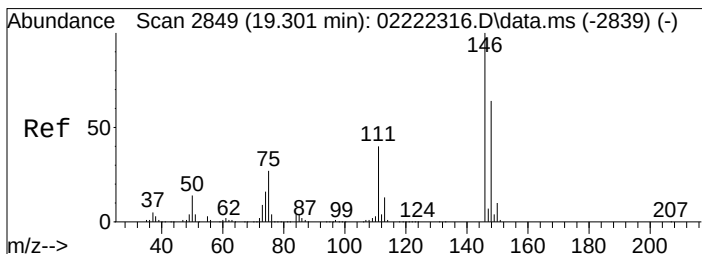
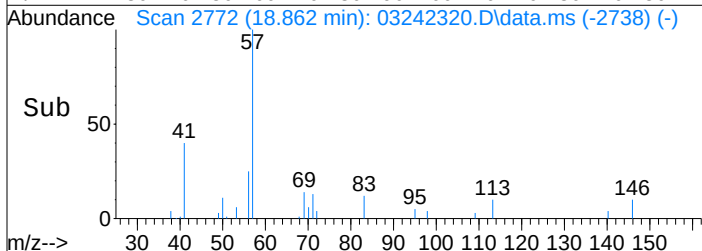
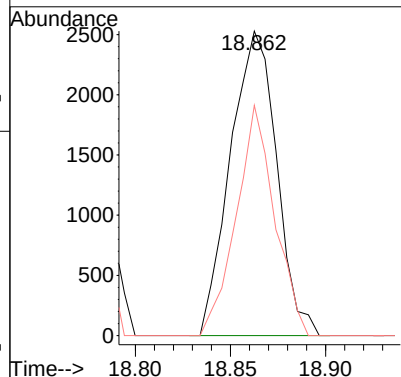
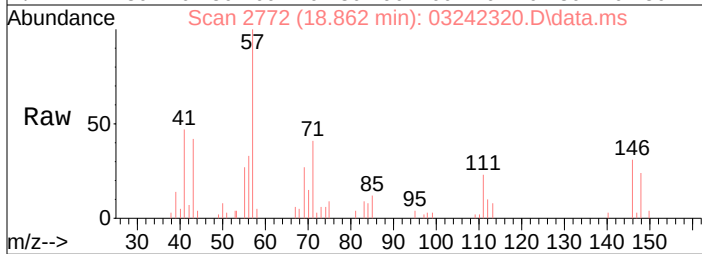
Tgt Ion:105 Resp: 46408
 Ion Ratio Lower Upper
 105 100
 120 45.7 32.8 72.8





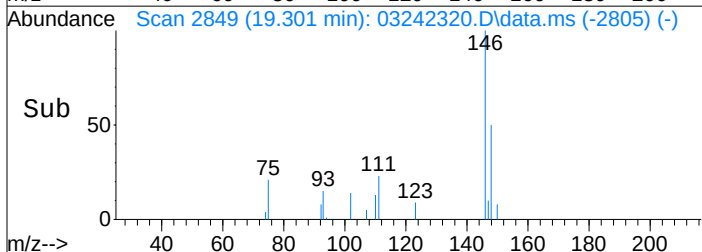
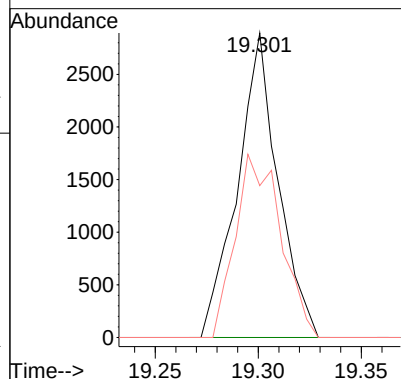
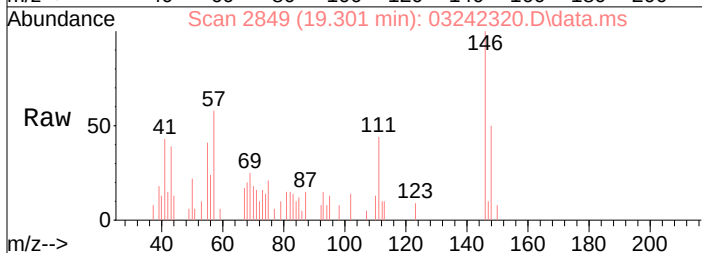
#86
 1,4-Dichlorobenzene
 Concen: 0.07 ng
 RT: 18.86 min Scan# 2772
 Delta R.T. -0.006 min
 Lab File: 03242320.D
 Acq: 24 Mar 2023 17:59

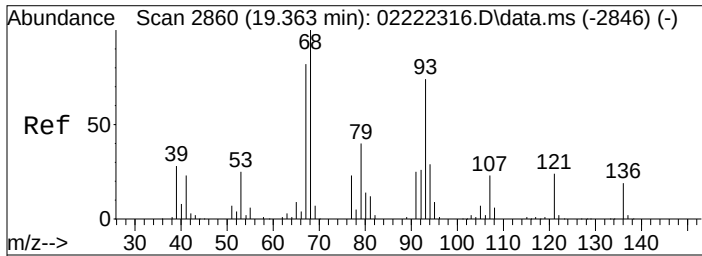
Tgt Ion	Ratio	Resp	Lower	Upper
146	100	4279		
148	62.8	44.7		84.7



#90
 1,2-Dichlorobenzene
 Concen: 0.07 ng
 RT: 19.30 min Scan# 2849
 Delta R.T. 0.000 min
 Lab File: 03242320.D
 Acq: 24 Mar 2023 17:59

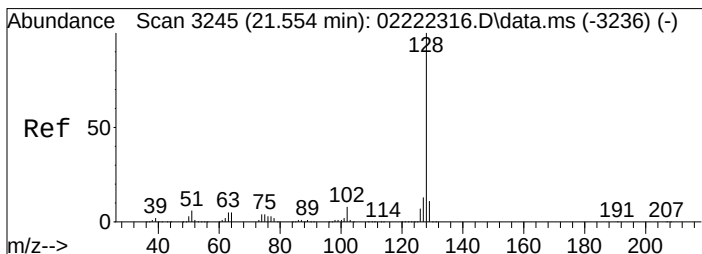
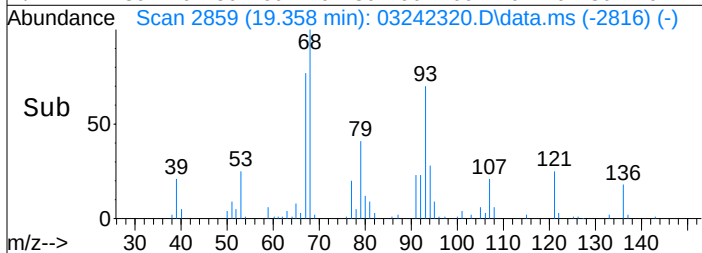
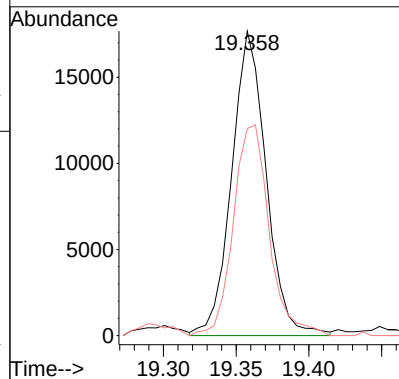
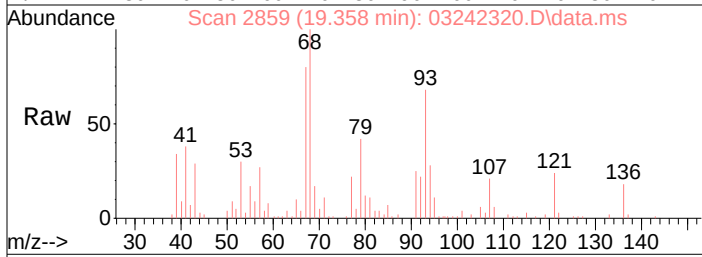
Tgt Ion	Ratio	Resp	Lower	Upper
146	100	3960		
148	67.2	44.4		84.4





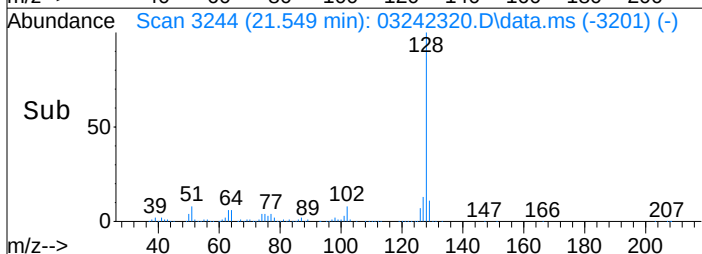
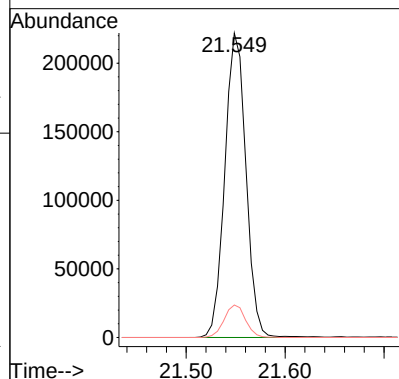
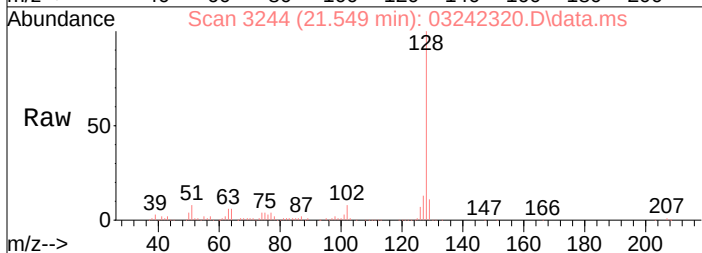
#91
d-Limonene
Concen: 0.89 ng
RT: 19.36 min Scan# 2859
Delta R.T. -0.006 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:59

Tgt Ion: 68 Resp: 29241
Ion Ratio Lower Upper
68 100
93 71.8 54.8 94.8



#95
Naphthalene
Concen: 3.12 ng
RT: 21.55 min Scan# 3244
Delta R.T. -0.006 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:59

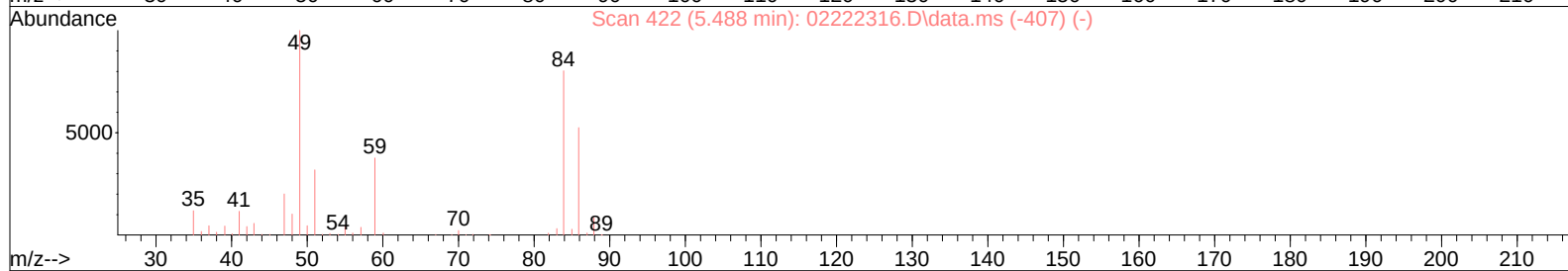
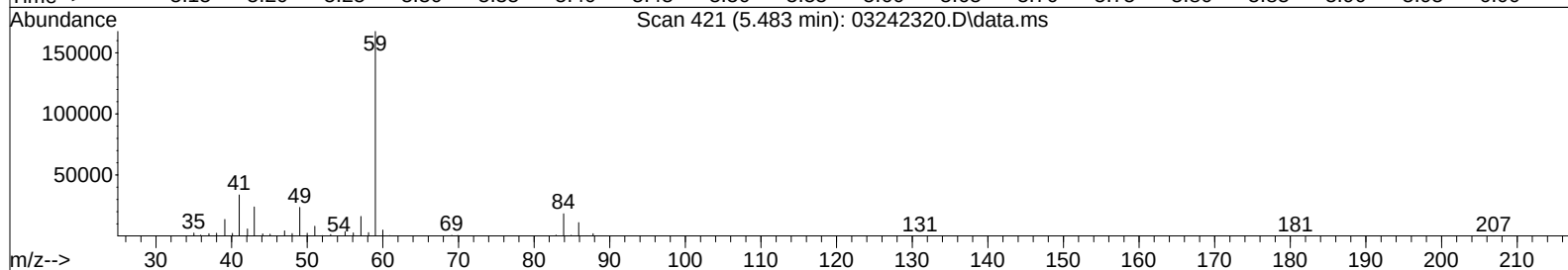
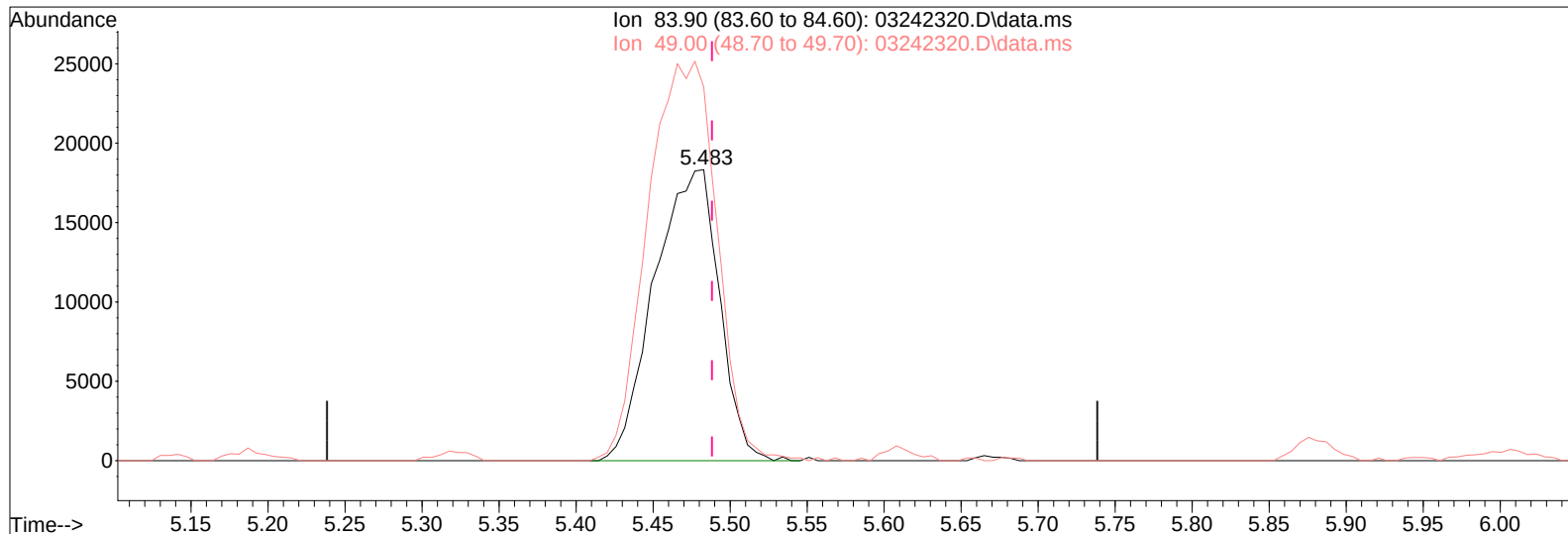
Tgt Ion: 128 Resp: 329663
Ion Ratio Lower Upper
128 100
129 10.8 0.0 30.9



Data File : I:\MS13\DATA\2023_03\24\03242320.D
Acq On : 24 Mar 2023 17:59
Sample : P2301250-015 (1000mL)
Misc : S35-01202301

Vial: 4
Operator: TZ
Inst : MS13

Quant Time: Mar 25 06:49:39 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03242320.D\data.ms

(19) Methylene Chloride (T)

5.483min (-0.006) 2.43ng

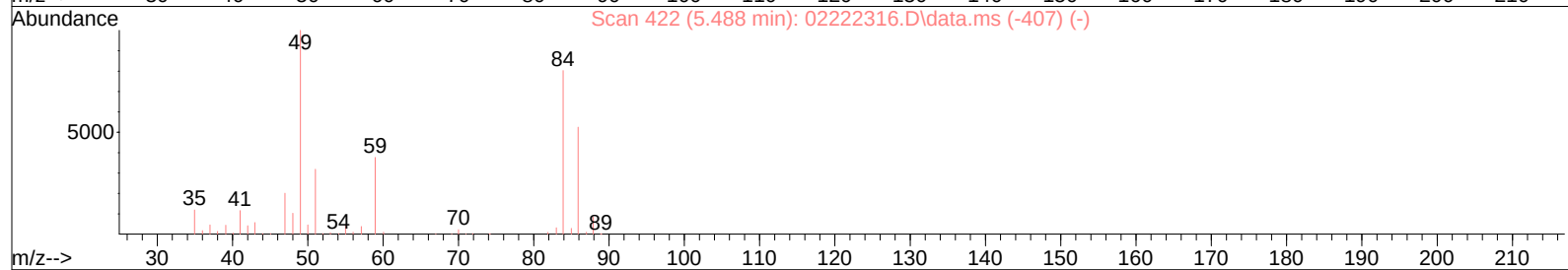
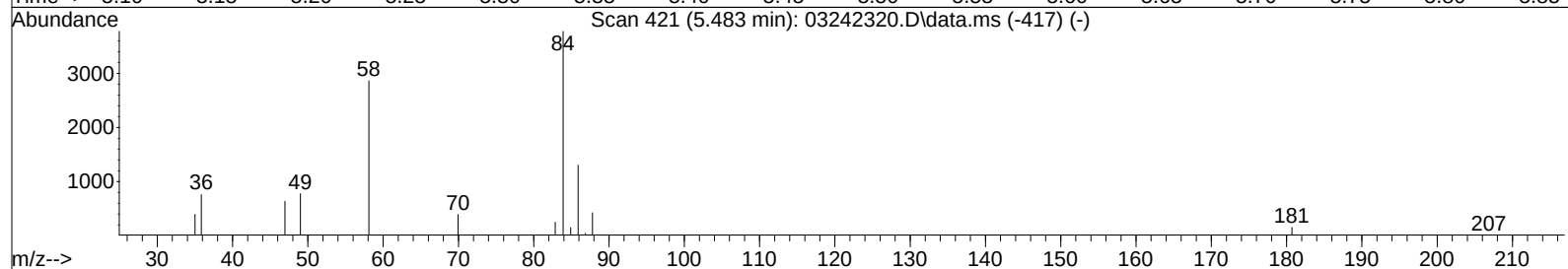
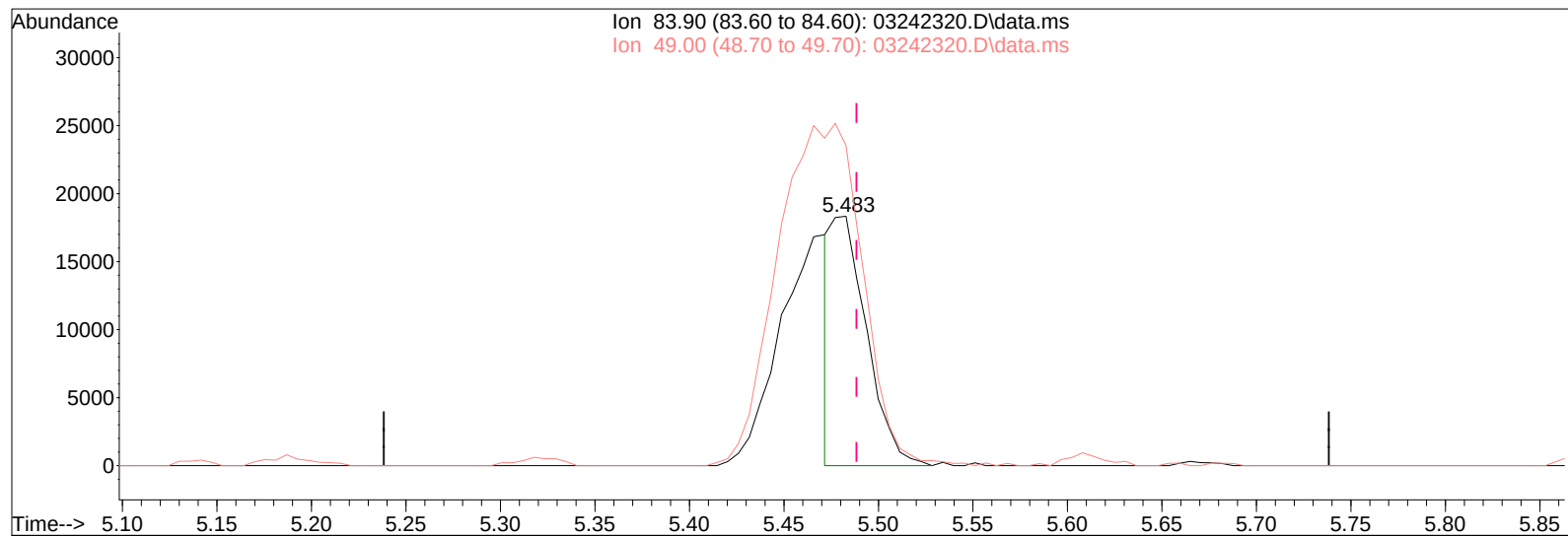
response 53505

Ion	Exp%	Act%
83.90	100	100
49.00	126.30	146.05
0.00	0.00	0.00
0.00	0.00	0.00

Data File : I:\MS13\DATA\2023_03\24\03242320.D
Acq On : 24 Mar 2023 17:59
Sample : P2301250-015 (1000mL)
Misc : S35-01202301

Vial: 4
Operator: TZ
Inst : MS13

Quant Time: Mar 25 06:49:39 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03242320.D\data.ms

(19) Methylene Chloride (T)

5.483min (-0.006) 1.08ng m

response 23788

Ion	Exp%	Act%
83.90	100	100
49.00	126.30	131.06
0.00	0.00	0.00
0.00	0.00	0.00

IPC

TZ 3/27/23

3/28/23

Data File : I:\MS13\DATA\2023_03\24\03242320.D
 Acq On : 24 Mar 2023 17:59
 Sample : P2301250-015 (1000mL)
 Misc : S35-01202301

Vial: 4
 Operator: TZ
 Inst : MS13

TZ 3/28/23

Quant Time: Mar 28 09:52:44 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.33	130	247342	12.500	ng	0.01
16) 1,4-Difluorobenzene (C_2)	9.38	114	1081352	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	14.88	54	213157	12.500	ng	0.00

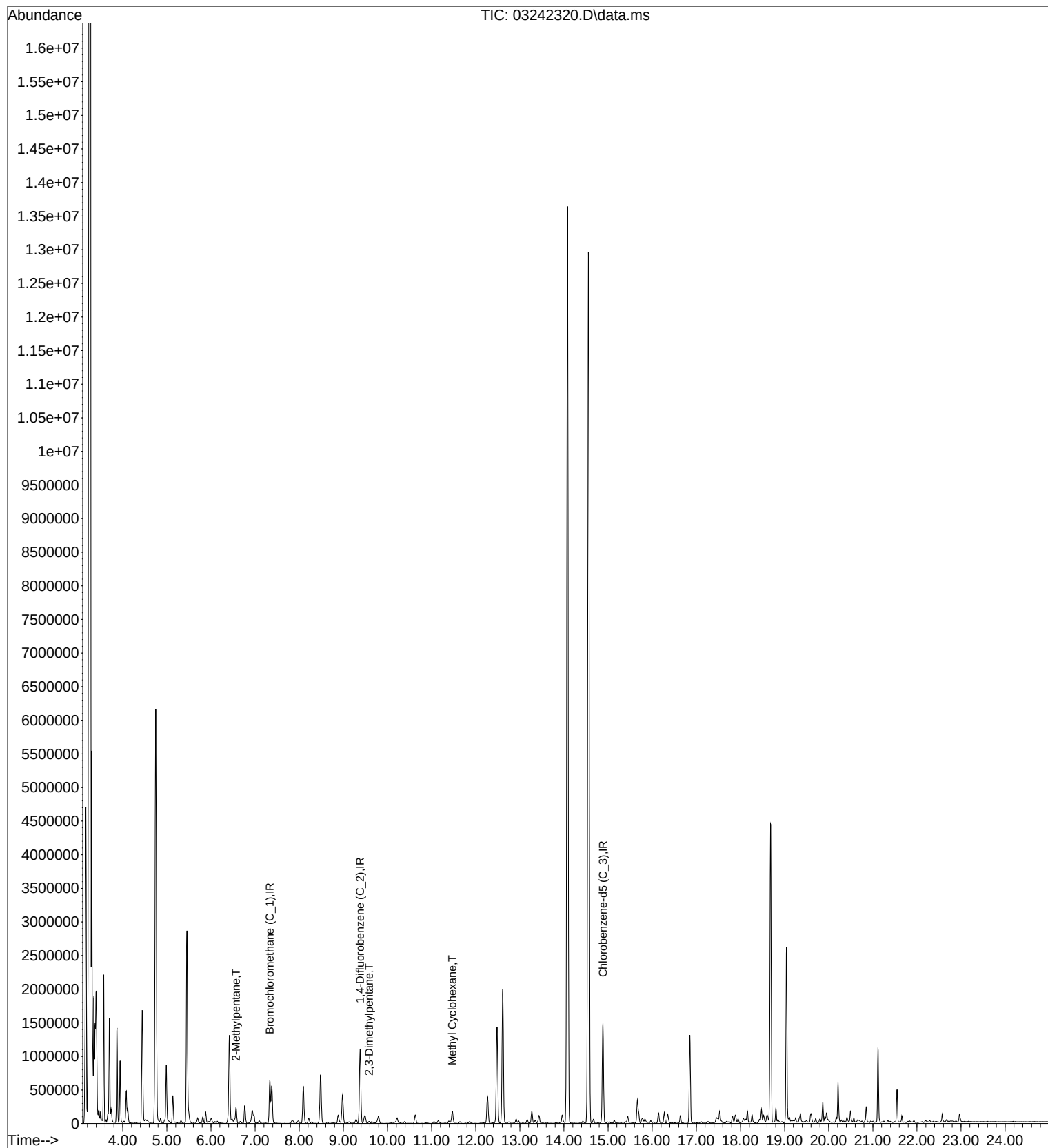
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	0.00	85	0	N.D.	d	
3) 1,1,1,2-Tetrafluoroeth...	0.00	83	0	N.D.	d	
4) 1,1-Difluoroethane	3.36	65	1487	N.D.		
5) Chlorodifluoromethane ...	0.00	67	0	N.D.	d	
6) 1-Chloro-1,1-Difluoroe...	3.62	65	1272	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	0.00	43	0	N.D.	d	
12) 2-Methylpentane	6.57	71	53842	3.115	ng	# 72
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	9.11	84	3161	N.D.		
17) 2,3-Dimethylpentane	9.59	56	17062	0.536	ng	93
18) Dibromomethane	9.87	174	465	N.D.		
20) Methyl Cyclohexane	11.47	55	76917	2.168	ng	86
21) 1,3-Dichloropropane	0.00	76	0	N.D.	d	
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	15.24	91	756	N.D.		
24) 1,2,3-Trichloropropane	0.00	75	0	N.D.	d	
25) Bromobenzene	17.12	77	54	N.D.		
26) 2-Chlorotoluene	17.66	91	300	N.D.		
27) 4-Chlorotoluene	0.00	91	0	N.D.	d	
28) Indane	19.39	117	4857	N.D.		
29) Indene	19.50	115	1353	N.D.		
30) 1,2,4,5-Tetramethylben...	20.70	119	4936	N.D.		
31) 1,2,3,4-Tetramethylben...	20.70	119	4936	N.D.		
32) 1,2,3,5-Tetramethylben...	21.11	119	7062	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242320.D
Acq On : 24 Mar 2023 17:59
Sample : P2301250-015 (1000mL)
Misc : S35-01202301

Vial: 4
Operator: TZ
Inst : MS13

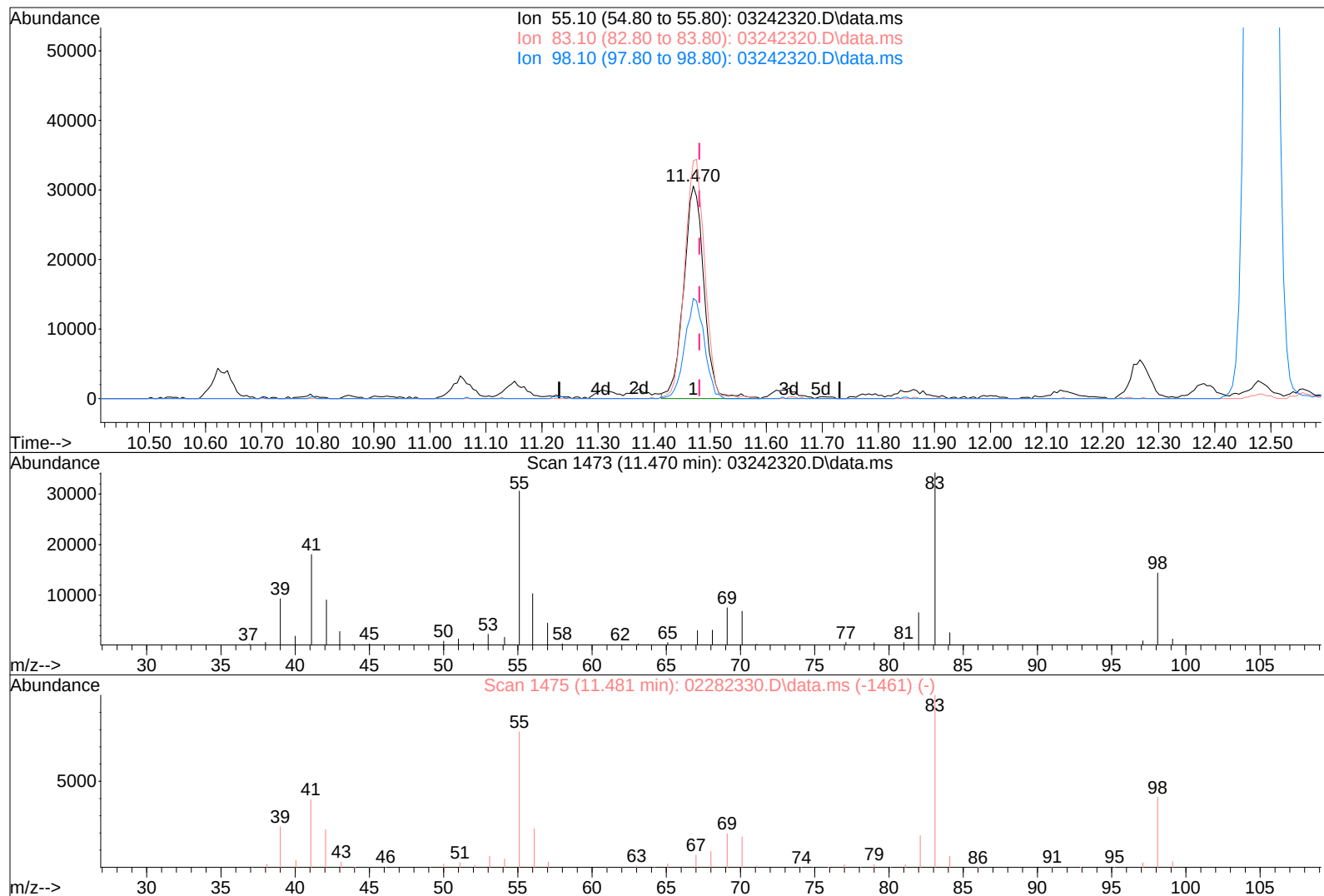
Quant Time: Mar 28 09:52:44 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242320.D
Acq On : 24 Mar 2023 17:59
Sample : P2301250-015 (1000mL)
Misc : S35-01202301

Vial: 4
Operator: TZ
Inst : MS13

Quant Time: Mar 27 16:04:12 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03242320.D\data.ms

(20) Methyl Cyclohexane (T)

11.470min (-0.011) 2.17ng

response 76917

Ion	Exp%	Act%
55.10	100	100
83.10	128.30	111.01
98.10	53.10	45.20
0.00	0.00	0.00

Data File : I:\MS13\DATA\2023_03\27\03272308.D
 Acq On : 27 Mar 2023 7:50
 Sample : P2301250-015dil (100mL)
 Misc : S35-01202301

Vial: 4
 Operator: WA
 Inst : MS13

Tz 3/27/23

Quant Time: Mar 27 14:37:27 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	234789	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.36	114	1028274	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.88	54	191425	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.07	65	392100	12.584	ng	-0.04
Spiked Amount	12.500	Range	70 - 130	Recovery	=	100.64%
57) Toluene-d8 (SS2)	12.48	98	1160994	11.793	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.32%
73) Bromofluorobenzene (SS3)	16.85	174	407593	11.304	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	90.40%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	3.46	85	6191	0.144	ng	96
4) Chloromethane	3.58	50	115	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	3.82	62	270	N.D.		
7) 1,3-Butadiene	3.94	54	245	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	4.40	45	191216	11.467	ng	100
11) Acetonitrile	4.55	41	2289	0.053	ng	# 4
12) Acrolein	4.63	56	489	N.D.		
13) Acetone	4.73	58	201623	14.167	ng	97
14) Trichlorofluoromethane	4.86	101	4135	0.107	ng	98
15) 2-Propanol (Isopropanol)	4.94	45	103048	1.794	ng	90
16) Acrylonitrile	5.11	53	1168	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.45	84	5362	0.257	ng	91
20) 3-Chloro-1-propene (Al...	5.57	41	217	N.D.		
21) Trichlorotrifluoroethane	5.67	151	514	N.D.		
22) Carbon Disulfide	5.72	76	16307	0.197	ng	99
23) trans-1,2-Dichloroethene	6.16	61	404	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	6.48	73	486	N.D.		
26) Vinyl Acetate	6.56	86	144	N.D.		
27) 2-Butanone (MEK)	6.76	72	7122	0.564	ng	# 92
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	7.37	61	6067	0.730	ng	93
31) n-Hexane	7.38	57	8689	0.272	ng	98
32) Chloroform	7.43	83	786	N.D.		
34) Tetrahydrofuran (THF)	7.85	72	1034	0.080	ng	# 31
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.07	62	159	N.D.		
38) 1,1,1-Trichloroethane	8.46	97	47704	1.402	ng	97
39) Isopropyl Acetate	9.36	61	28891	No Calib		
40) 1-Butanol	8.90	56	6632	No Calib	#	
41) Benzene	8.97	78	39785	0.497	ng	98
42) Carbon Tetrachloride	9.13	117	873	N.D.		
43) Cyclohexane	9.29	84	2286	0.078	ng	85
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	10.21	130	2242	0.096	ng	99
48) 1,4-Dioxane	10.20	88	623	N.D.		
49) 2,2,4-Trimethylpentane...	10.29	57	637	N.D.		
50) Methyl Methacrylate	10.38	100	163	N.D.		

Data File : I:\MS13\DATA\2023_03\27\03272308.D
 Acq On : 27 Mar 2023 7:50
 Sample : P2301250-015dil (100mL)
 Misc : S35-01202301

Vial: 4
 Operator: WA
 Inst : MS13

Quant Time: Mar 27 14:37:27 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.62	71	3206	0.166	ng	90
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.40	58	1170	0.068	ng #	68
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.60	91	170687	1.821	ng	99
59) 2-Hexanone	12.98	43	3688	0.081	ng #	61
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.82	43	2510	N.D.		
63) n-Octane	13.95	57	2355	0.128	ng #	88
64) Tetrachloroethene	14.07	166	525988	18.449	ng	100
65) Chlorobenzene	14.93	112	901	N.D.		
66) Ethylbenzene	15.44	91	8049	0.072	ng	99
67) m- & p-Xylenes	15.66	91	29260	0.325	ng	99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.14	104	2124	N.D.		
70) o-Xylene	16.28	91	10077	0.117	ng	97
71) n-Nonane	16.63	43	4598	0.110	ng	91
72) 1,1,2,2-Tetrachloroethane	16.25	83	126	N.D.		
74) Cumene	17.06	105	1308	N.D.		
75) alpha-Pinene	17.57	93	1099	N.D.		
76) n-Propylbenzene	17.75	91	2127	N.D.		
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	2113	N.D.		
79) 1,3,5-Trimethylbenzene	18.06	105	2204	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.61	105	4513	0.052	ng	86
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	18.75	91	2458	N.D.		
85) 1,3-Dichlorobenzene	18.77	146	935	N.D.		
86) 1,4-Dichlorobenzene	18.86	146	1208	N.D.		
87) sec-Butylbenzene	18.95	105	852	N.D.		
88) 4-Isopropyltoluene (p-...	19.18	119	1625	N.D.		
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.29	146	1094	N.D.		
91) d-Limonene	19.36	68	2407	0.081	ng	98
92) 1,2-Dibromo-3-Chloropr...	19.85	157	972	N.D.		
93) n-Undecane	18.26	58	356	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	5830	0.148	ng	96
95) Naphthalene	21.55	128	33785	0.356	ng	98
96) n-Dodecane	19.09	58	119	No Calib	#	
97) Hexachlorobutadiene	21.98	225	777	N.D.		
98) Cyclohexanone	15.76	55	257	No Calib	#	
99) tert-Butylbenzene	18.60	119	986	N.D.		
100) n-Butylbenzene	19.72	91	2355	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Vial: 4
Operator: WA
Inst : MS13

Quant Time: Mar 27 14:37:27 2023

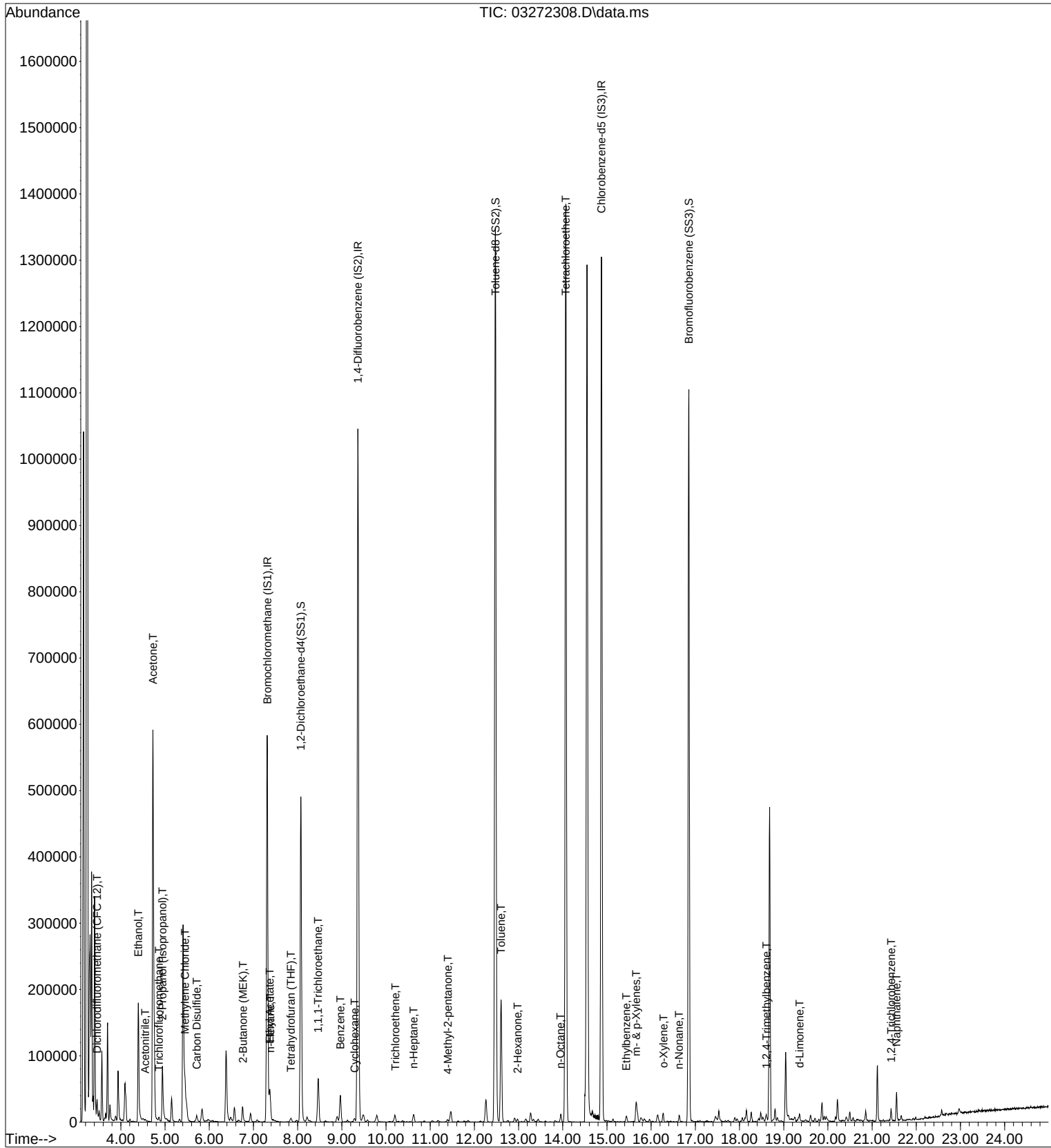
Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA T0-15 per SOP V0A-T015 (CASS T0-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

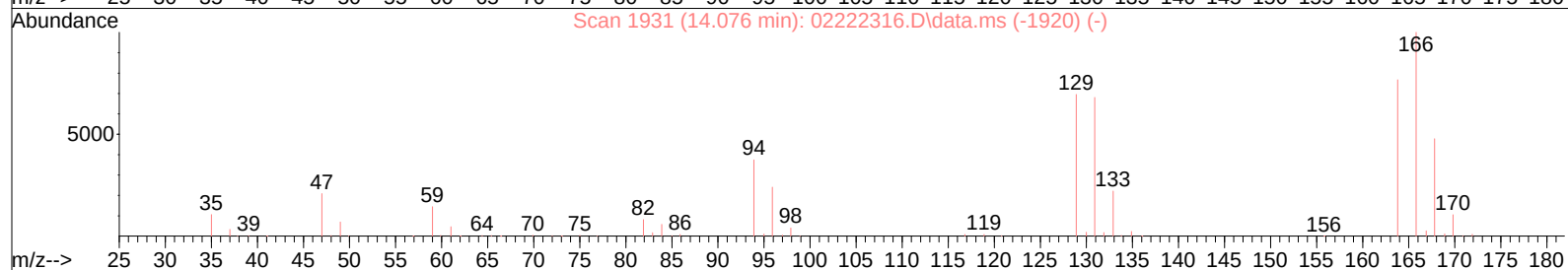
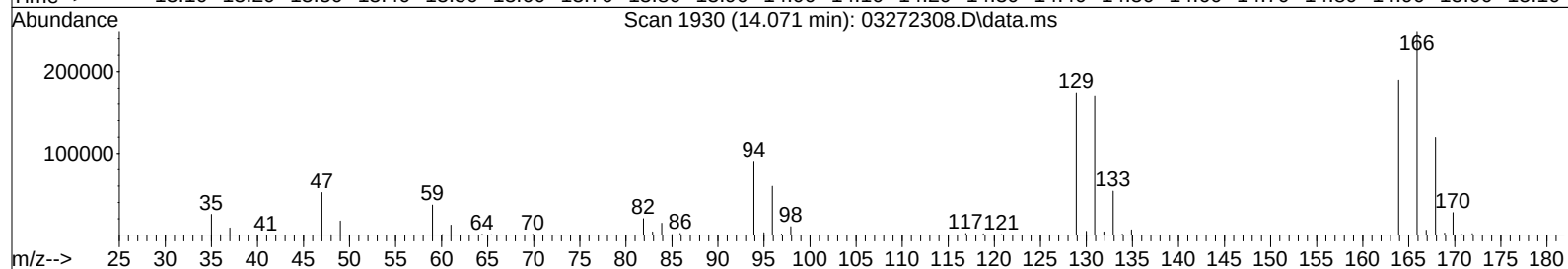
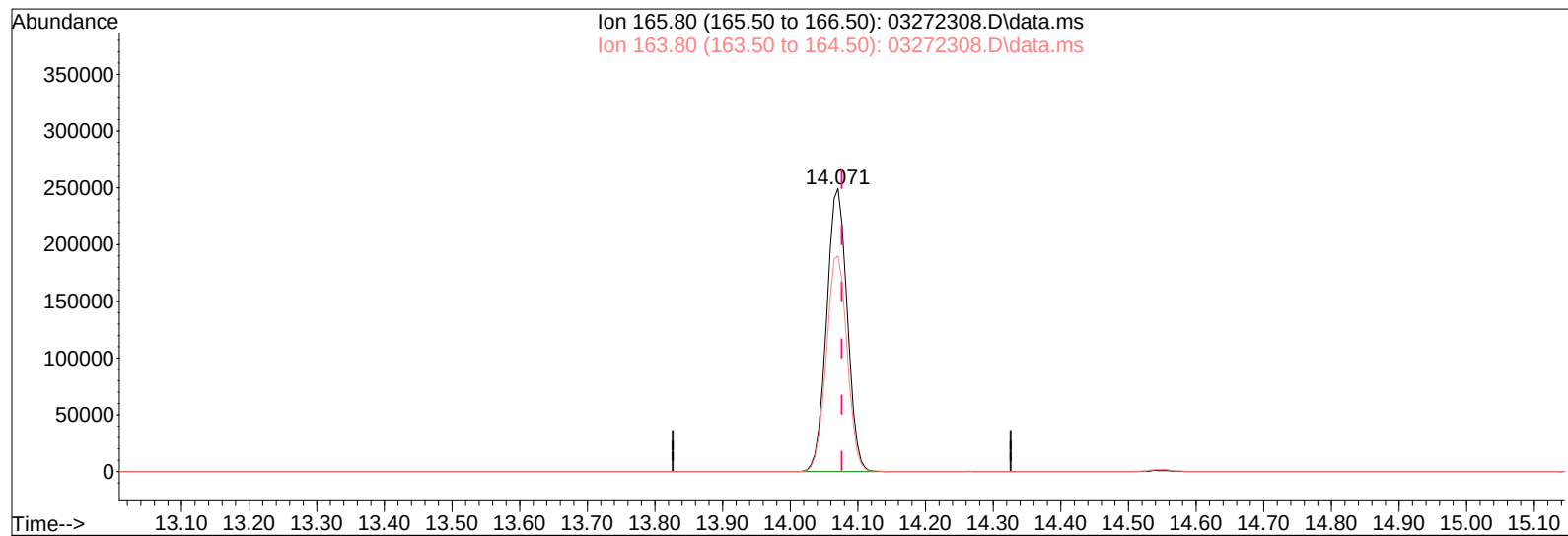
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\27\03272308.D
Acq On : 27 Mar 2023 7:50
Sample : P2301250-015dil (100mL)
Misc : S35-01202301

Vial: 4
Operator: WA
Inst : MS13

Quant Time: Mar 27 10:22:12 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03272308.D\data.ms

(64) Tetrachloroethene (T)

14.071min (-0.006) 18.45ng

response 525988

Ion	Exp%	Act%
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165.80	100	100
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163.80	77.30	77.16
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0.00	0.00	0.00
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0.00	0.00	0.00
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ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG18

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: SC02356

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23 & 3/28/23

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -11.33 Final Pressure (psig): 3.50

Container Dilution Factor: 5.40

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.7	2.9	0.47	0.55	0.58	0.095	J
74-87-3	Chloromethane	ND	1.1	0.46	ND	0.55	0.22	
75-01-4	Vinyl Chloride	2.4	0.59	0.31	0.93	0.23	0.12	
74-83-9	Bromomethane	ND	1.1	0.40	ND	0.29	0.10	
75-00-3	Chloroethane	ND	1.1	0.36	ND	0.43	0.14	
67-64-1	Acetone	260	28	6.5	110	12	2.7	
75-69-4	Trichlorofluoromethane	1.1	2.8	0.44	0.20	0.50	0.078	J
75-35-4	1,1-Dichloroethene	ND	0.59	0.40	ND	0.15	0.10	
75-09-2	Methylene Chloride	6.7	2.9	0.81	1.9	0.82	0.23	
76-13-1	Trichlorotrifluoroethane	0.46	2.9	0.41	0.061	0.38	0.054	J
75-15-0	Carbon Disulfide	14	5.8	0.86	4.6	1.9	0.28	
156-60-5	trans-1,2-Dichloroethene	1.5	0.59	0.40	0.39	0.15	0.10	
75-34-3	1,1-Dichloroethane	54	0.59	0.42	13	0.15	0.10	
1634-04-4	Methyl tert-Butyl Ether	ND	2.9	0.34	ND	0.81	0.094	
78-93-3	2-Butanone (MEK)	15	5.6	0.59	5.1	1.9	0.20	
156-59-2	cis-1,2-Dichloroethene	50	0.59	0.41	13	0.15	0.10	
67-66-3	Chloroform	13	0.59	0.38	2.6	0.12	0.079	
107-06-2	1,2-Dichloroethane	ND	0.59	0.32	ND	0.15	0.079	
71-55-6	1,1,1-Trichloroethane	36	0.59	0.36	6.6	0.11	0.065	
71-43-2	Benzene	25	0.59	0.42	7.8	0.19	0.13	
56-23-5	Carbon Tetrachloride	ND	0.59	0.40	ND	0.094	0.064	
110-82-7	Cyclohexane	410	5.7	0.81	120	1.6	0.24	
78-87-5	1,2-Dichloropropane	ND	0.59	0.36	ND	0.13	0.077	
75-27-4	Bromodichloromethane	ND	0.59	0.42	ND	0.089	0.062	
79-01-6	Trichloroethene	230	0.59	0.39	42	0.11	0.072	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG18

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: SC02356

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23 & 3/28/23

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -11.33 Final Pressure (psig): 3.50

Container Dilution Factor: 5.40

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	2.9	0.45	ND	0.64	0.099	
108-10-1	4-Methyl-2-pentanone	1.2	5.9	0.39	0.29	1.5	0.096	J
10061-02-6	trans-1,3-Dichloropropene	ND	2.8	0.59	ND	0.61	0.13	
79-00-5	1,1,2-Trichloroethane	ND	0.59	0.29	ND	0.11	0.053	
108-88-3	Toluene	28	2.9	0.35	7.4	0.76	0.093	
591-78-6	2-Hexanone	ND	5.9	0.36	ND	1.5	0.087	
124-48-1	Dibromochloromethane	ND	0.59	0.38	ND	0.070	0.044	
106-93-4	1,2-Dibromoethane	ND	0.59	0.33	ND	0.077	0.044	
127-18-4	Tetrachloroethene	460	0.59	0.37	68	0.088	0.055	
108-90-7	Chlorobenzene	ND	2.9	0.38	ND	0.62	0.083	
100-41-4	Ethylbenzene	1.6	2.9	0.41	0.37	0.66	0.093	J
179601-23-1	m,p-Xylenes	4.9	5.9	0.76	1.1	1.4	0.17	J
75-25-2	Bromoform	ND	2.9	0.59	ND	0.28	0.057	
100-42-5	Styrene	ND	2.9	0.46	ND	0.67	0.11	
95-47-6	o-Xylene	1.6	2.9	0.42	0.37	0.66	0.096	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.59	0.40	ND	0.087	0.058	
98-82-8	Cumene	ND	2.9	0.42	ND	0.59	0.085	
541-73-1	1,3-Dichlorobenzene	ND	2.9	0.43	ND	0.48	0.072	
106-46-7	1,4-Dichlorobenzene	ND	2.9	0.44	ND	0.48	0.074	
95-50-1	1,2-Dichlorobenzene	ND	2.9	0.43	ND	0.49	0.071	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.9	0.54	ND	0.61	0.056	
120-82-1	1,2,4-Trichlorobenzene	ND	5.9	0.70	ND	0.80	0.095	
79-20-9	Methyl Acetate	ND	2.7	1.3	ND	0.89	0.43	X
108-87-2	Methylcyclohexane	730	27	14	180	6.7	3.5	D, X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

D = The reported result is from a dilution.

X = See case narrative.

Data File : I:\MS13\DATA\2023_03\24\03242321.D
 Acq On : 24 Mar 2023 18:35
 Sample : P2301250-016 (1000mL)
 Misc : S35-01202301

Vial: 5
 Operator: TZ
 Inst : MS13

TZ 3/27/23

Quant Time: Mar 27 12:39:26 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	249337	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	9.38	114	1111653	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	223930	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	430162	13.000	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	104.00%
57) Toluene-d8 (SS2)	12.48	98	1263946	10.975	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	87.84%
73) Bromofluorobenzene (SS3)	16.85	174	468599	11.110	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	88.88%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	3.47	85	23040	0.504	ng	96
4) Chloromethane	0.00	50	0	N.D.	d	
5) 1,2-Dichloro-1,1,2,2-t...	3.73	135	452	N.D.		
6) Vinyl Chloride	3.79	62	13382	0.439	ng	88
7) 1,3-Butadiene	0.00	54	0	N.D.	d	
8) Bromomethane	4.13	94	253	N.D.		
9) Chloroethane	4.23	64	534	N.D.		
10) Ethanol	4.40	45	249124	14.068	ng	100
11) Acetonitrile	4.54	41	13621	0.296	ng	98
12) Acrolein	4.63	56	2980	0.203	ng	80
13) Acetone	4.73	58	739680	48.943	ng	# 1
14) Trichlorofluoromethane	4.86	101	8657	0.211	ng	99
15) 2-Propanol (Isopropanol)	4.95	45	128675	2.109	ng	87
16) Acrylonitrile	0.00	53	0	N.D.	d	
17) 1,1-Dichloroethene	5.36	96	319	N.D.		
18) 2-Methyl-2-Propanol (t...	5.41	59	455635	7.637	ng	96
19) Methylene Chloride	5.46	84	27609	1.246	ng	89
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	5.68	151	1869	0.086	ng	83
22) Carbon Disulfide	5.71	76	234175	2.669	ng	100
23) trans-1,2-Dichloroethene	6.24	61	9236	0.286	ng	98
24) 1,1-Dichloroethane	6.42	63	396958	10.067	ng	97
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.	d	
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	6.76	72	37566	2.800	ng	93
28) cis-1,2-Dichloroethene	7.17	61	296078	9.296	ng	99
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	7.37	61	53851	6.104	ng	# 72
31) n-Hexane	7.41	57	1618413	47.661	ng	98
32) Chloroform	7.45	83	93400	2.325	ng	88
34) Tetrahydrofuran (THF)	7.86	72	1176	0.085	ng	# 72
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	N.D.	d	
38) 1,1,1-Trichloroethane	8.49	97	246561	6.701	ng	100
39) Isopropyl Acetate	9.38	61	31187	No Calib	#	
40) 1-Butanol	8.87	56	37476	No Calib	#	
41) Benzene	8.98	78	401463	4.642	ng	100
42) Carbon Tetrachloride	9.16	117	1302	N.D.		
43) Cyclohexane	9.31	84	2417472	76.253	ng	95
44) tert-Amyl Methyl Ether	9.69	73	318	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.	d	
47) Trichloroethene	10.22	130	1061012	41.879	ng	99
48) 1,4-Dioxane	0.00	88	0	N.D.	d	
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.	d	
50) Methyl Methacrylate	10.38	100	355	N.D.		

Data File : I:\MS13\DATA\2023_03\24\03242321.D
 Acq On : 24 Mar 2023 18:35
 Sample : P2301250-016 (1000mL)
 Misc : S35-01202301

Vial: 5
 Operator: TZ
 Inst : MS13

Quant Time: Mar 27 12:39:26 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.65	71	864960	41.333	ng	98
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.40	58	4137	0.222	ng	89
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	12.25	97	155	N.D.		
58) Toluene	12.61	91	568557	5.186	ng	99
59) 2-Hexanone	0.00	43	0	N.D.	d	
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	0.00	43	0	N.D.	d	
63) n-Octane	13.96	57	441036	20.458	ng	88
64) Tetrachloroethene	14.08	166	2865022	85.903	ng	99
65) Chlorobenzene	0.00	112	0	N.D.	d	
66) Ethylbenzene	15.45	91	38935	0.298	ng	99
67) m- & p-Xylenes	15.66	91	95689	0.909	ng	99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.13	104	2079	N.D.		
70) o-Xylene	16.28	91	29726	0.295	ng	98
71) n-Nonane	16.64	43	125944	2.586	ng	98
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.	d	
74) Cumene	17.06	105	5905	N.D.		
75) alpha-Pinene	17.57	93	457757	8.105	ng	99
76) n-Propylbenzene	17.74	91	4030	N.D.		
77) 3-Ethyltoluene	17.34	105	1372	No Calib	#	
78) 4-Ethyltoluene	17.95	105	1953	N.D.		
79) 1,3,5-Trimethylbenzene	18.06	105	2558	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.34	105	1372	No Calib	#	
82) 1,2,4-Trimethylbenzene	18.61	105	2162	N.D.		
83) n-Decane	17.12	58	1737	No Calib	#	
84) Benzyl Chloride	18.77	91	469	N.D.		
85) 1,3-Dichlorobenzene	18.77	146	130	N.D.		
86) 1,4-Dichlorobenzene	18.86	146	222	N.D.		
87) sec-Butylbenzene	18.96	105	651	N.D.		
88) 4-Isopropyltoluene (p-...	19.18	119	1277	N.D.		
89) 1,2,3-Trimethylbenzene	17.34	105	1372	No Calib	#	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	19.36	68	2282	0.066	ng	91
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.24	58	1349	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.44	180	251	N.D.		
95) Naphthalene	21.55	128	5284	N.D.		
96) n-Dodecane	19.05	58	1098	No Calib	#	
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	15.61	55	12279	No Calib	#	
99) tert-Butylbenzene	18.60	119	530	N.D.		
100) n-Butylbenzene	19.70	91	739	N.D.		
101) 1,1,1,2-Tetrachloroethane	14.91	131	106	N.D.		

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

Vial: 5
Operator: TZ
Inst : MS13

Quant Time: Mar 27 12:39:26 2023

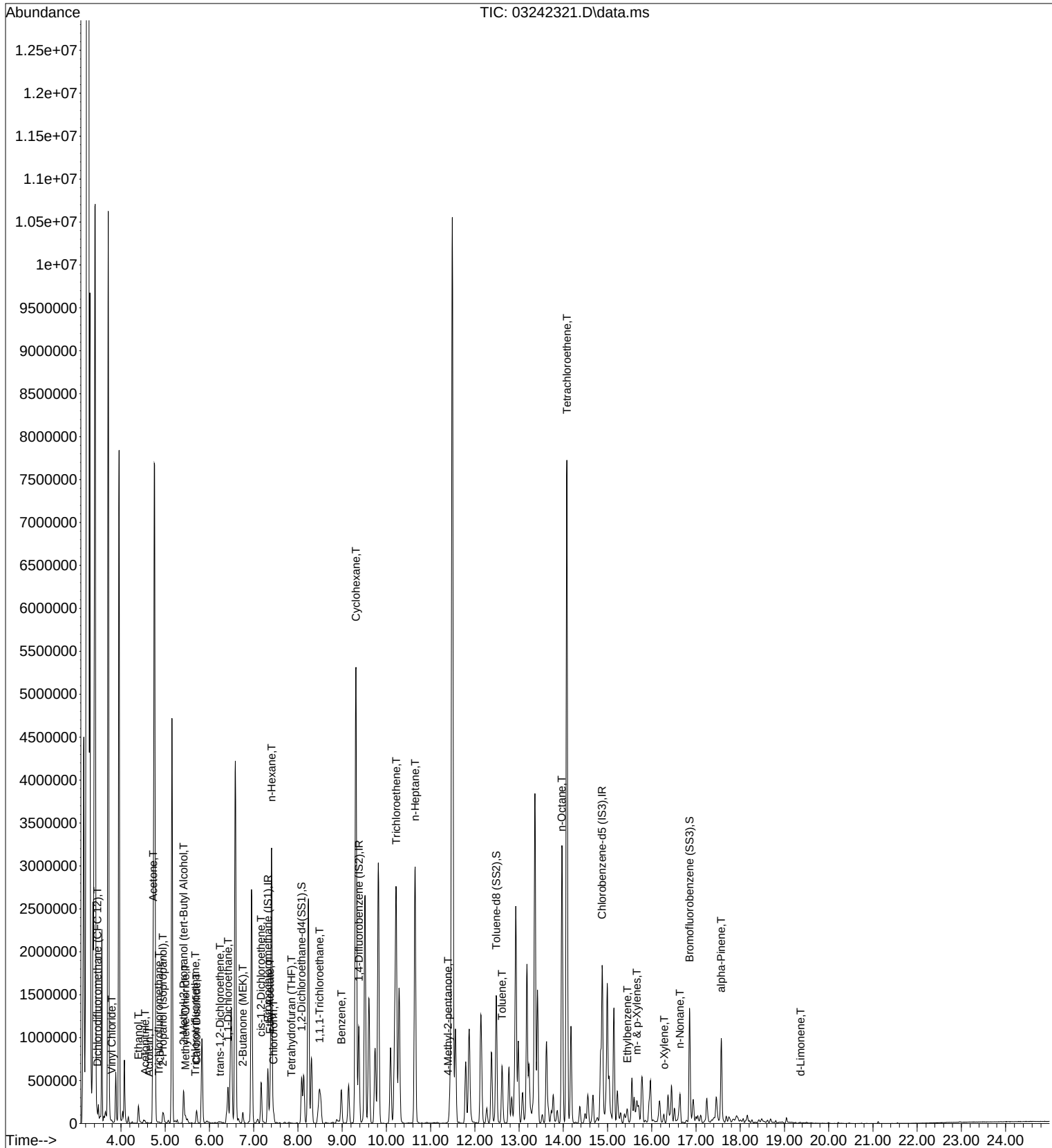
Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA T0-15 per SOP V0A-T015 (CASS T0-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242321.D
 Acq On : 24 Mar 2023 18:35
 Sample : P2301250-016 (1000mL)
 Misc : S35-01202301

Vial: 5
 Operator: TZ
 Inst : MS13

Tz 3/27/23

Quant Time: Mar 27 12:39:26 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	249337	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	9.38	114	1111653	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	223930	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	430162	13.000	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	104.00%
57) Toluene-d8 (SS2)	12.48	98	1263946	10.975	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	87.84%
73) Bromofluorobenzene (SS3)	16.85	174	468599	11.110	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	88.88%

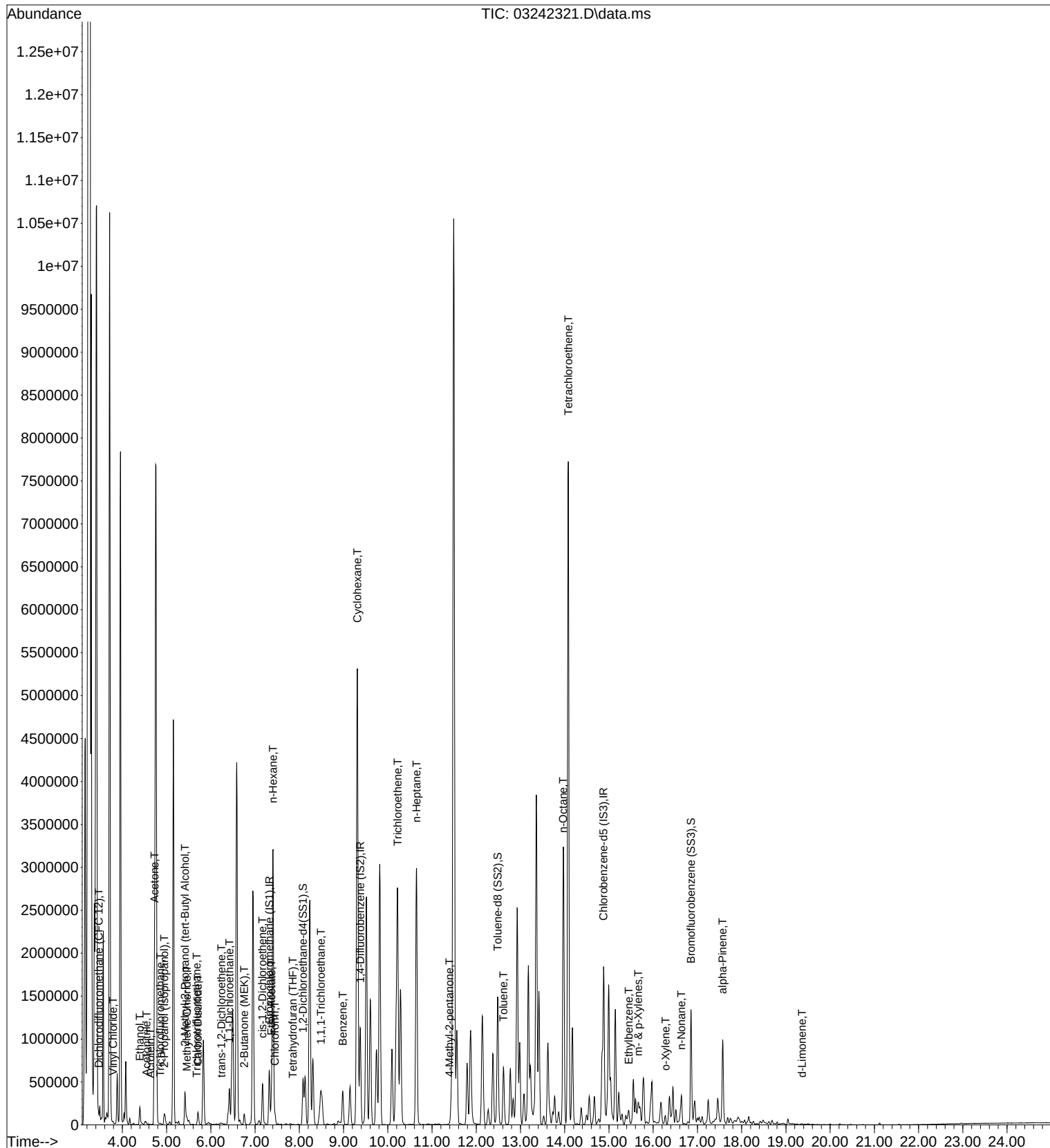
Target Compounds

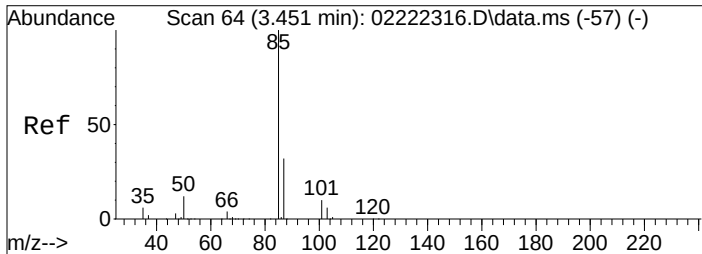
						Qvalue
3) Dichlorodifluoromethan...	3.47	85	23040	0.504	ng	96
6) Vinyl Chloride	3.79	62	13382	0.439	ng	88
10) Ethanol	4.40	45	249124	14.068	ng	100
11) Acetonitrile	4.54	41	13621	0.296	ng	98
12) Acrolein	4.63	56	2980	0.203	ng	80
13) Acetone	4.73	58	739680	48.943	ng	# 1
14) Trichlorofluoromethane	4.86	101	8657	0.211	ng	99
15) 2-Propanol (Isopropanol)	4.95	45	128675	2.109	ng	87
18) 2-Methyl-2-Propanol (t...	5.41	59	455635	7.637	ng	96
19) Methylene Chloride	5.46	84	27609	1.246	ng	89
21) Trichlorotrifluoroethane	5.68	151	1869	0.086	ng	83
22) Carbon Disulfide	5.71	76	234175	2.669	ng	100
23) trans-1,2-Dichloroethene	6.24	61	9236	0.286	ng	98
24) 1,1-Dichloroethane	6.42	63	396958	10.067	ng	97
27) 2-Butanone (MEK)	6.76	72	37566	2.800	ng	93
28) cis-1,2-Dichloroethene	7.17	61	296078	9.296	ng	99
30) Ethyl Acetate	7.37	61	53851	6.104	ng	# 72
31) n-Hexane	7.41	57	1618413	47.661	ng	98
32) Chloroform	7.45	83	93400	2.325	ng	88
34) Tetrahydrofuran (THF)	7.86	72	1176	0.085	ng	# 72
38) 1,1,1-Trichloroethane	8.49	97	246561	6.701	ng	100
41) Benzene	8.98	78	401463	4.642	ng	100
43) Cyclohexane	9.31	84	2417472	76.253	ng	95
47) Trichloroethene	10.22	130	1061012	41.879	ng	99
51) n-Heptane	10.65	71	864960	41.333	ng	98
53) 4-Methyl-2-pentanone	11.40	58	4137	0.222	ng	89
58) Toluene	12.61	91	568557	5.186	ng	99
63) n-Octane	13.96	57	441036	20.458	ng	88
64) Tetrachloroethene	14.08	166	2865022	85.903	ng	99
66) Ethylbenzene	15.45	91	38935	0.298	ng	99
67) m- & p-Xylenes	15.66	91	95689	0.909	ng	99
70) o-Xylene	16.28	91	29726	0.295	ng	98
71) n-Nonane	16.64	43	125944	2.586	ng	98
75) alpha-Pinene	17.57	93	457757	8.105	ng	99
91) d-Limonene	19.36	68	2282	0.066	ng	91

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

Vial: 5
Operator: TZ
Inst : MS13

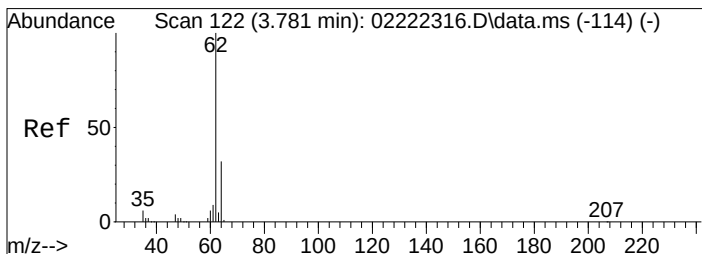
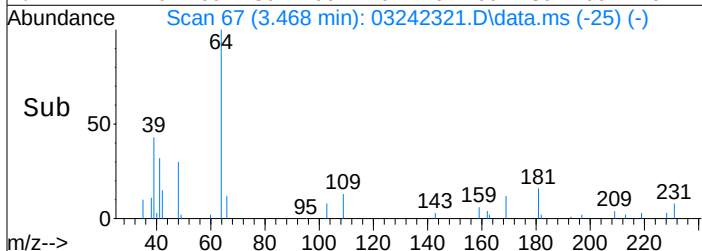
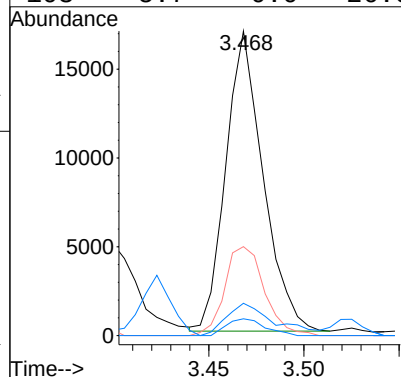
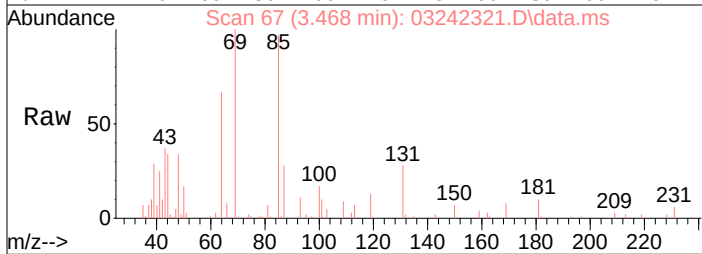
Quant Time: Mar 27 12:39:26 2023





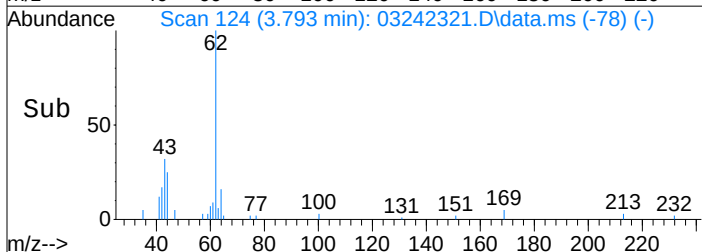
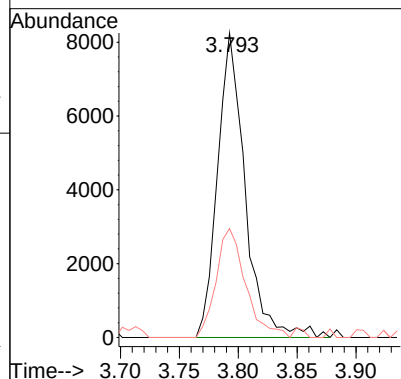
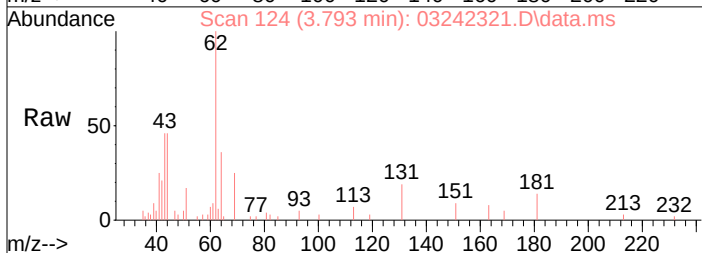
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 0.50 ng
 RT: 3.47 min Scan# 67
 Delta R.T. -0.010 min
 Lab File: 03242321.D
 Acq: 24 Mar 2023 18:35

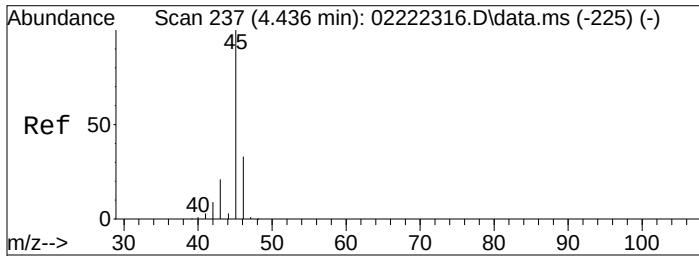
Tgt Ion:	85	Resp:	23040
Ion Ratio		Lower	Upper
85	100		
87	31.5	12.4	52.4
101	13.7	0.0	29.4
103	5.7	0.0	26.0



#6
 Vinyl Chloride
 Concen: 0.44 ng
 RT: 3.79 min Scan# 124
 Delta R.T. 0.012 min
 Lab File: 03242321.D
 Acq: 24 Mar 2023 18:35

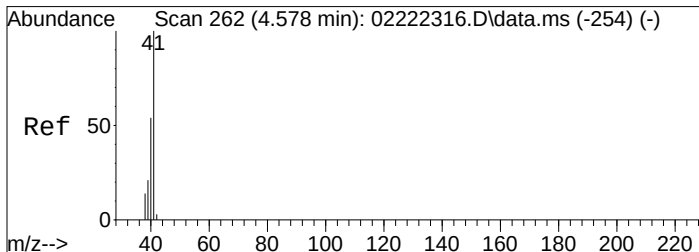
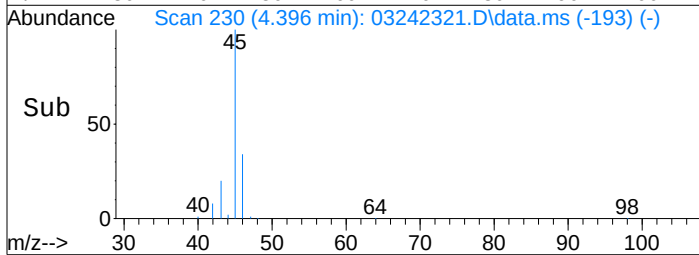
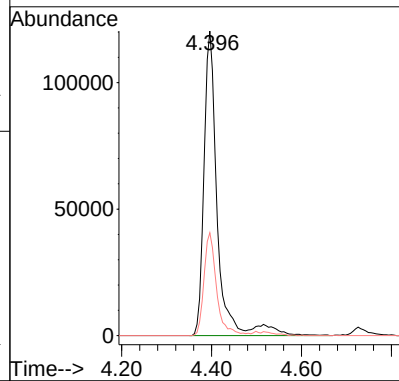
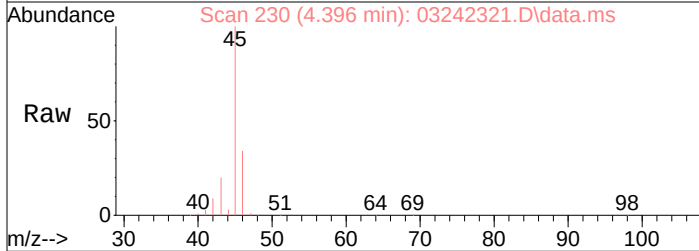
Tgt Ion:	62	Resp:	13382
Ion Ratio		Lower	Upper
62	100		
64	38.3	11.8	51.8





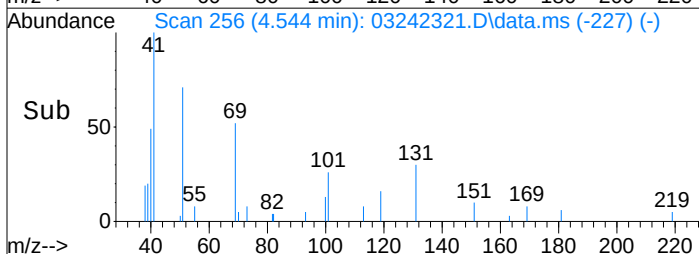
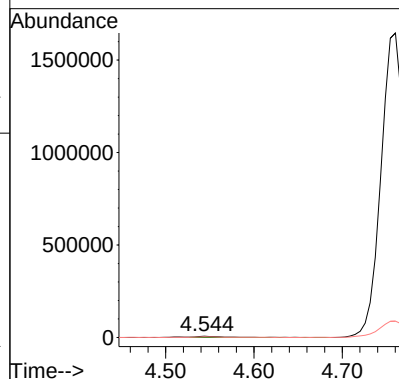
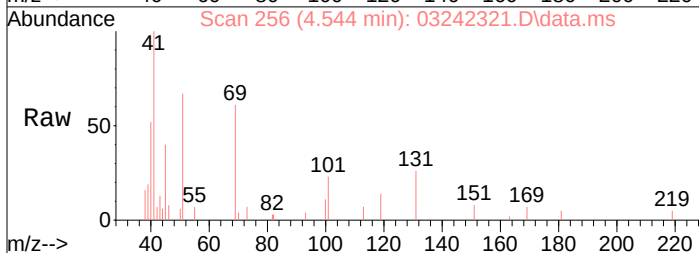
#10
Ethanol
Concen: 14.07 ng
RT: 4.40 min Scan# 230
Delta R.T. -0.040 min
Lab File: 03242321.D
Acq: 24 Mar 2023 18:35

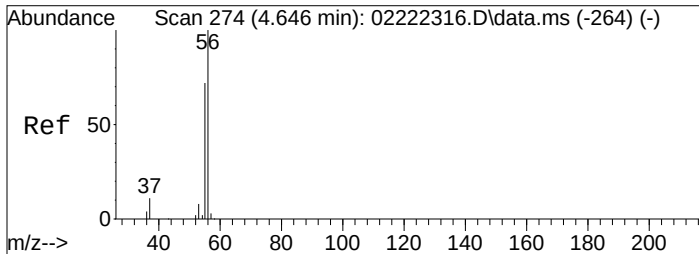
Tgt Ion: 45 Resp: 249124
Ion Ratio Lower Upper
45 100
46 33.8 13.8 53.8



#11
Acetonitrile
Concen: 0.30 ng
RT: 4.54 min Scan# 256
Delta R.T. -0.034 min
Lab File: 03242321.D
Acq: 24 Mar 2023 18:35

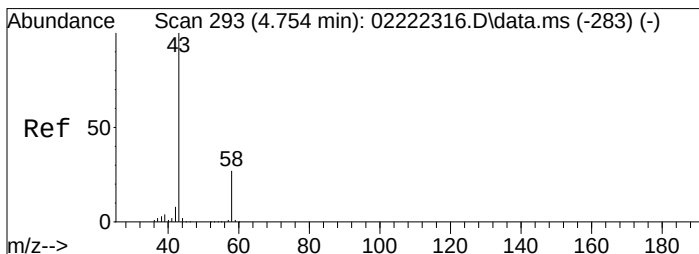
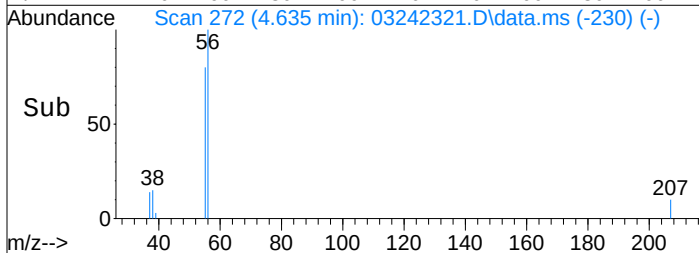
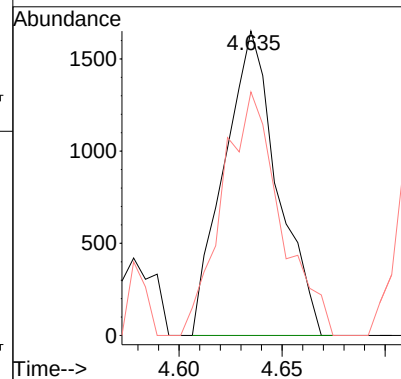
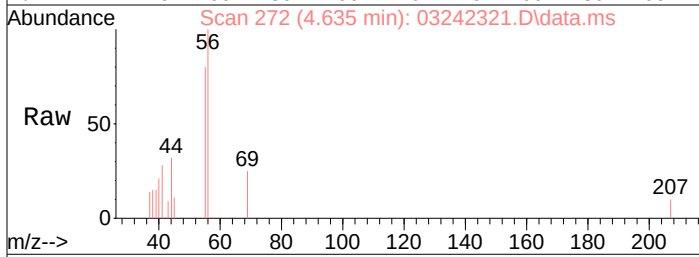
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Ion Ratio Lower Upper
41 100
40 53.3 34.4 74.4





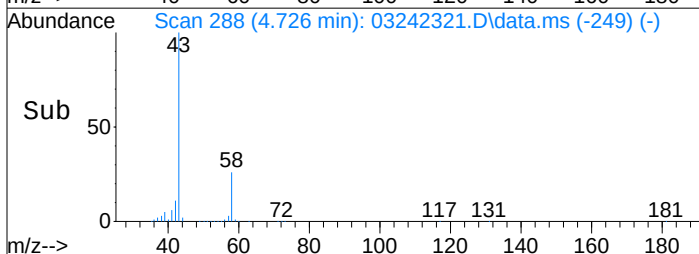
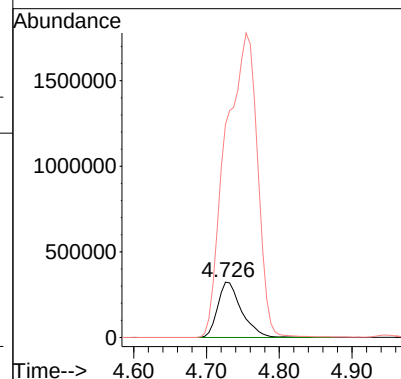
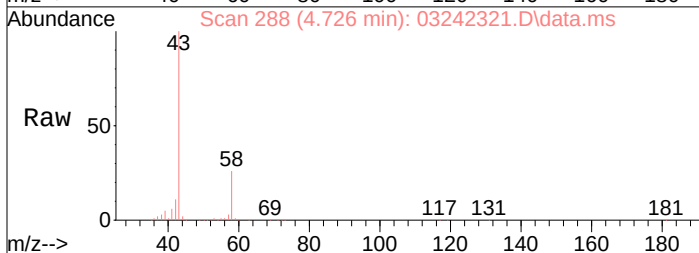
#12
Acrolein
Concen: 0.20 ng
RT: 4.63 min Scan# 272
Delta R.T. -0.011 min
Lab File: 03242321.D
Acq: 24 Mar 2023 18:35

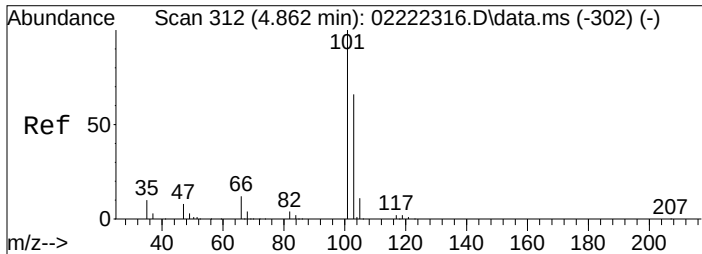
Tgt Ion: 56 Resp: 2980
Ion Ratio Lower Upper
56 100
55 87.4 50.9 90.9



#13
Acetone
Concen: 48.94 ng
RT: 4.73 min Scan# 288
Delta R.T. -0.028 min
Lab File: 03242321.D
Acq: 24 Mar 2023 18:35

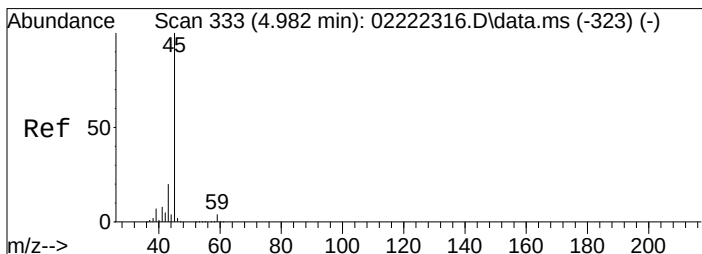
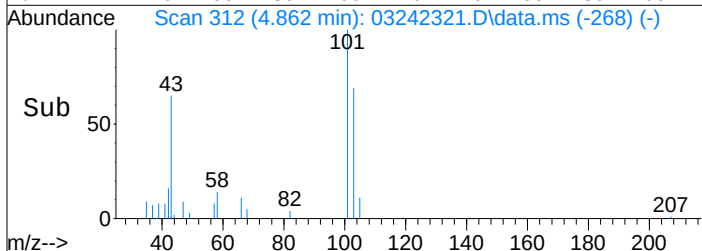
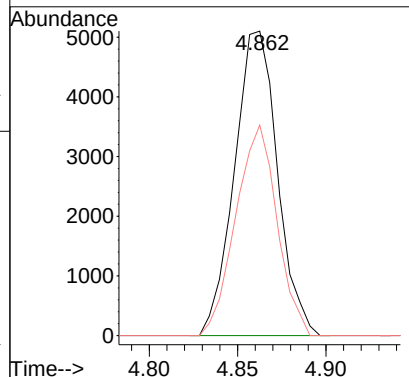
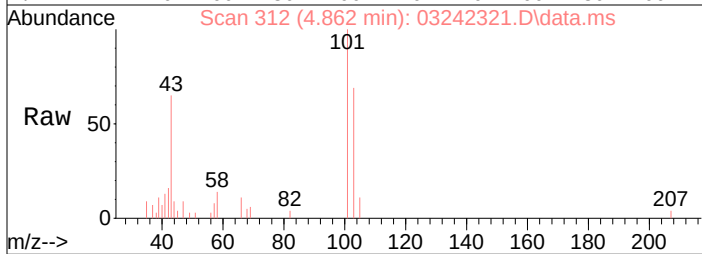
Tgt Ion: 58 Resp: 739680
Ion Ratio Lower Upper
58 100
43 730.8 337.8 397.8#





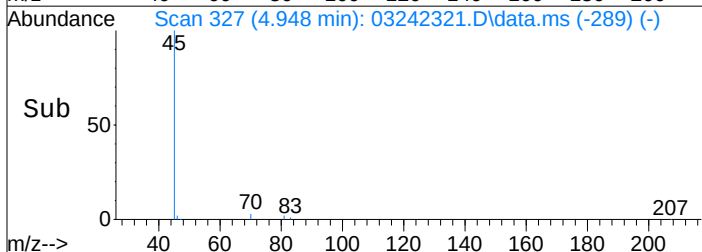
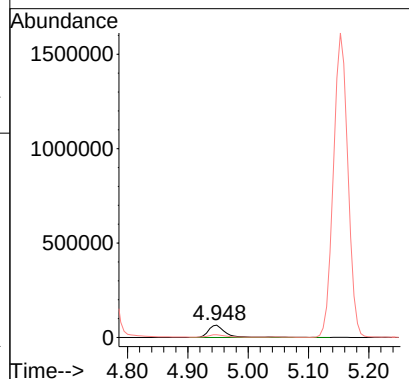
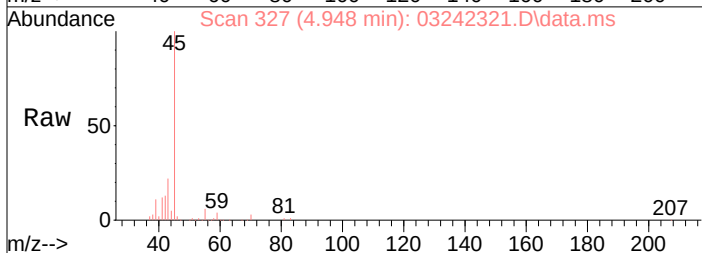
#14
 Trichlorofluoromethane
 Concen: 0.21 ng
 RT: 4.86 min Scan# 312
 Delta R.T. 0.000 min
 Lab File: 03242321.D
 Acq: 24 Mar 2023 18:35

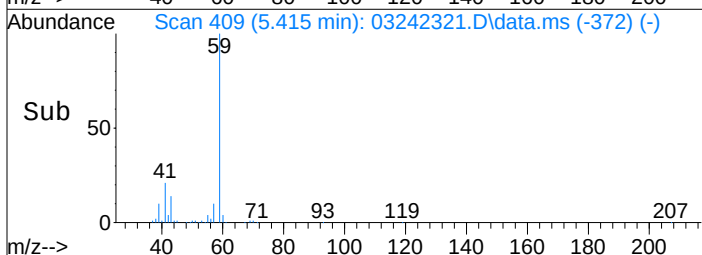
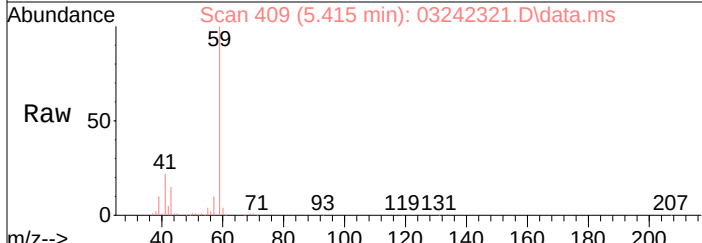
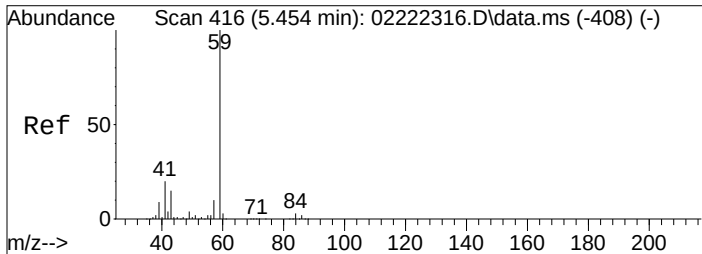
Tgt Ion: 101	Resp: 8657
Ion Ratio	Lower Upper
101	100
103	66.2 45.2 85.2



#15
 2-Propanol (Isopropanol)
 Concen: 2.11 ng
 RT: 4.95 min Scan# 327
 Delta R.T. -0.034 min
 Lab File: 03242321.D
 Acq: 24 Mar 2023 18:35

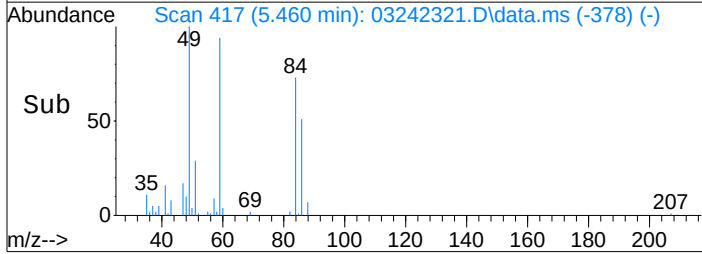
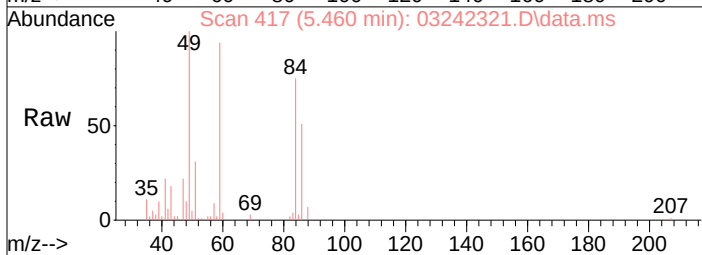
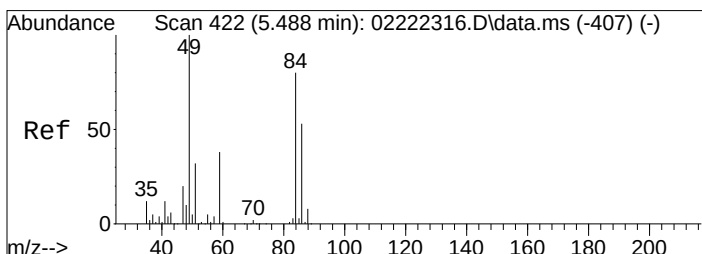
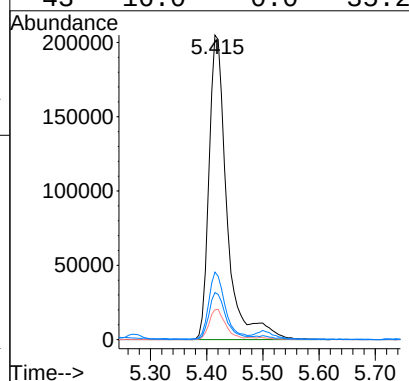
Tgt Ion: 45	Resp: 128675
Ion Ratio	Lower Upper
45	100
43	25.7 0.0 39.7





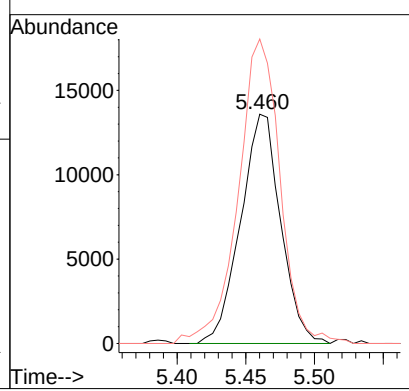
#18
 2-Methyl-2-Propanol (tert-Butyl Alcohol)
 Concen: 7.64 ng
 RT: 5.41 min Scan# 409
 Delta R.T. -0.040 min
 Lab File: 03242321.D
 Acq: 24 Mar 2023 18:35

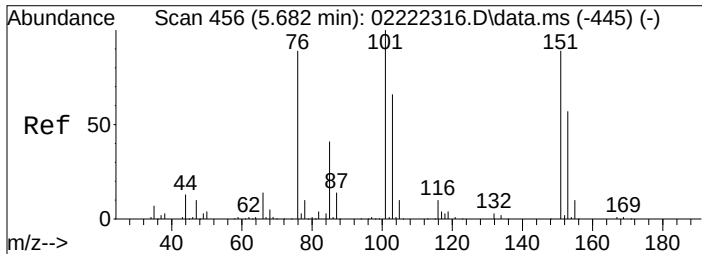
Tgt Ion:	59	Resp:	455635
Ion Ratio	Lower	Upper	
59	100		
57	10.0	0.0	29.9
41	24.0	1.0	41.0
43	16.0	0.0	35.2



#19
 Methylene Chloride
 Concen: 1.25 ng
 RT: 5.46 min Scan# 417
 Delta R.T. -0.028 min
 Lab File: 03242321.D
 Acq: 24 Mar 2023 18:35

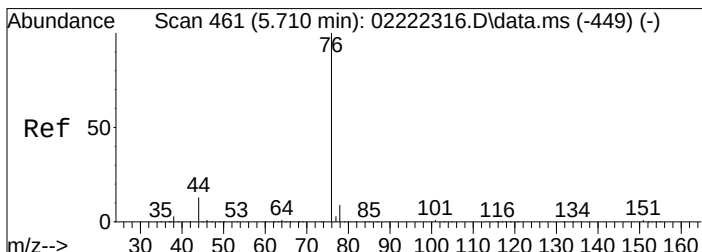
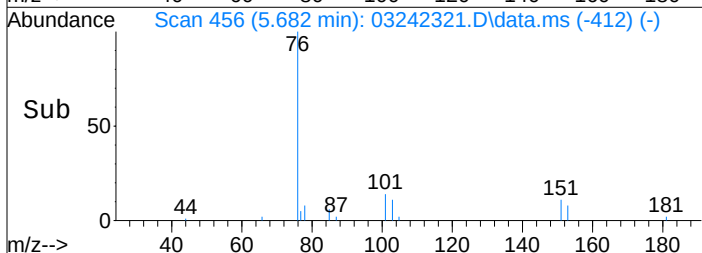
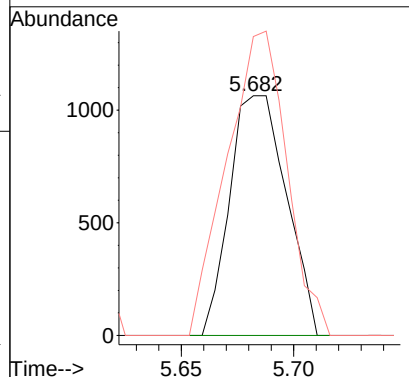
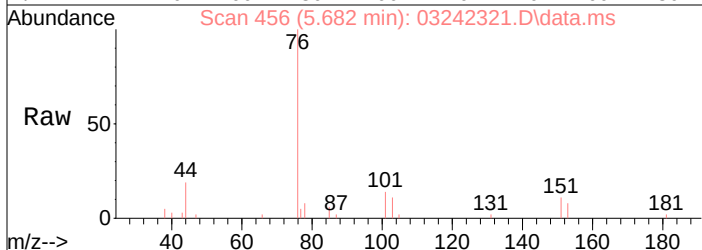
Tgt Ion:	84	Resp:	27609
Ion Ratio	Lower	Upper	
84	100		
49	138.7	101.3	151.3





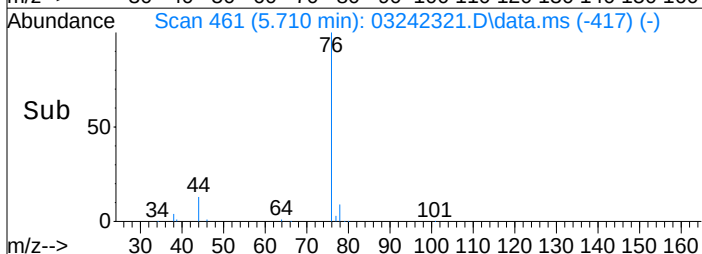
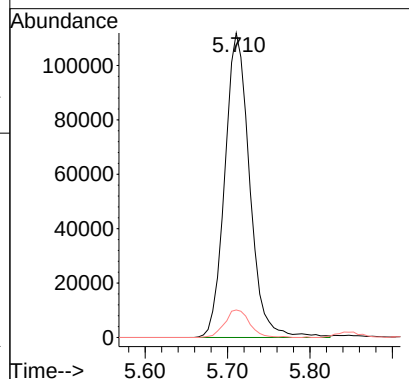
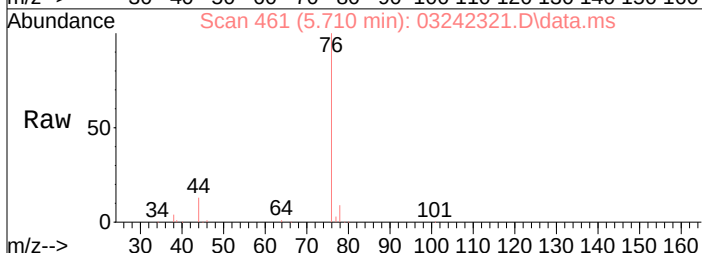
#21
 Trichlorotrifluoroethane
 Concen: 0.09 ng
 RT: 5.68 min Scan# 456
 Delta R.T. 0.000 min
 Lab File: 03242321.D
 Acq: 24 Mar 2023 18:35

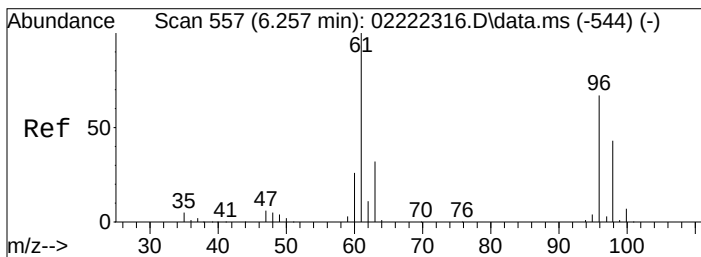
Tgt Ion: 151 Resp: 1869
 Ion Ratio Lower Upper
 151 100
 101 134.6 96.3 136.3



#22
 Carbon Disulfide
 Concen: 2.67 ng
 RT: 5.71 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: 03242321.D
 Acq: 24 Mar 2023 18:35

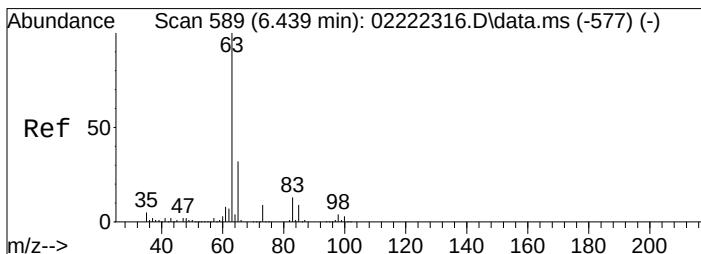
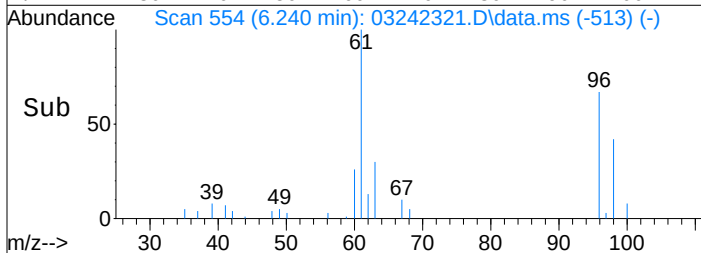
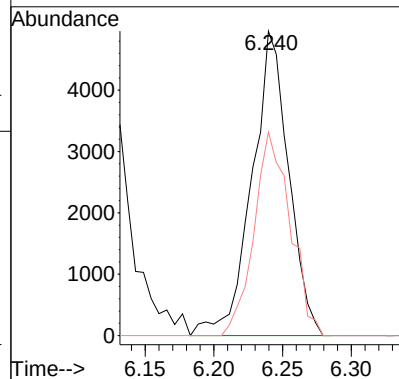
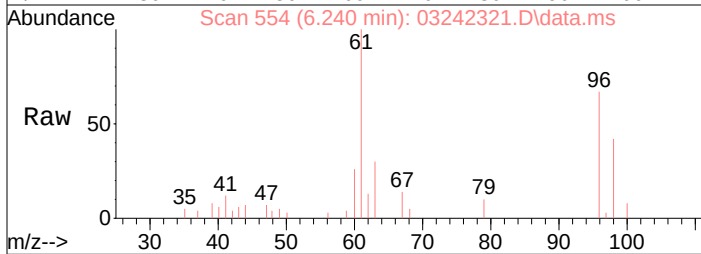
Tgt Ion: 76 Resp: 234175
 Ion Ratio Lower Upper
 76 100
 78 9.1 0.0 29.3





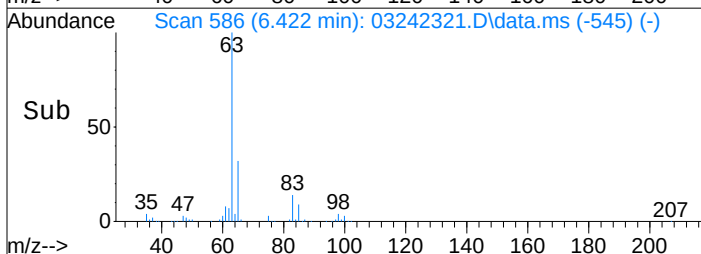
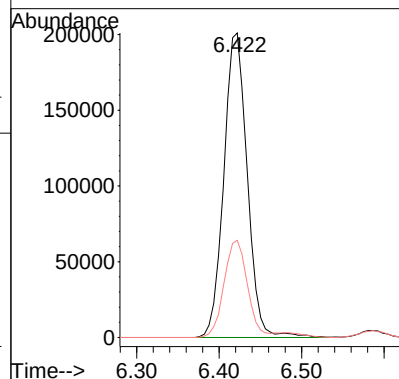
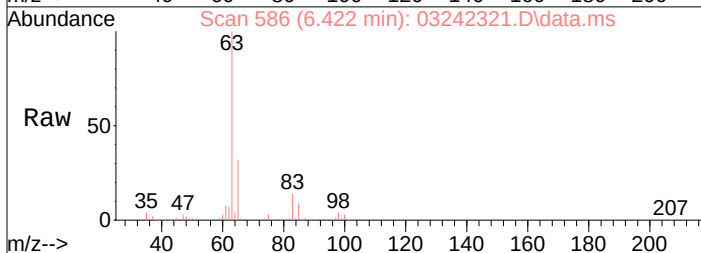
#23
trans-1,2-Dichloroethene
Concen: 0.29 ng
RT: 6.24 min Scan# 554
Delta R.T. -0.017 min
Lab File: 03242321.D
Acq: 24 Mar 2023 18:35

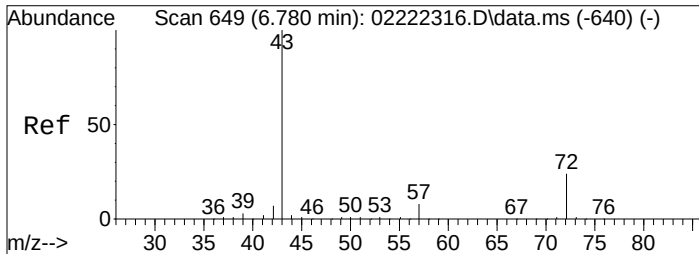
Tgt Ion: 61 Resp: 9236
Ion Ratio Lower Upper
61 100
96 65.9 47.7 87.7



#24
1,1-Dichloroethane
Concen: 10.07 ng
RT: 6.42 min Scan# 586
Delta R.T. -0.017 min
Lab File: 03242321.D
Acq: 24 Mar 2023 18:35

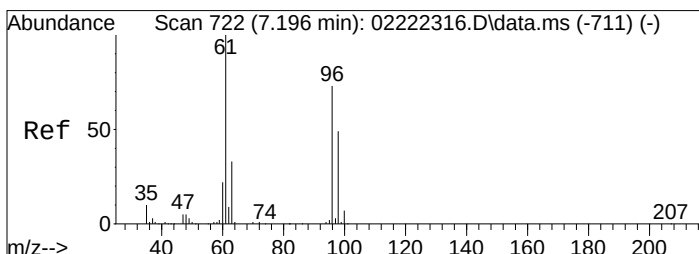
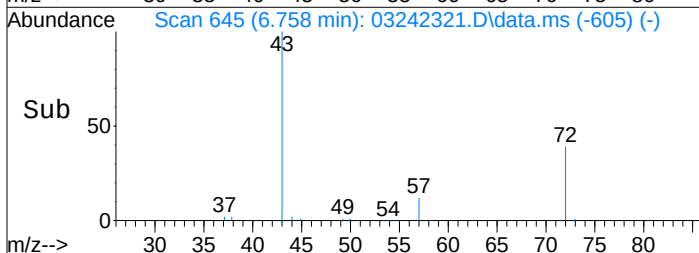
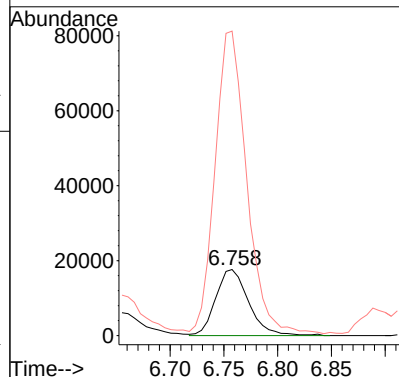
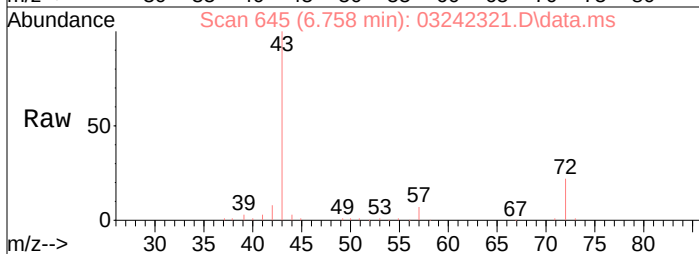
Tgt Ion: 63 Resp: 396958
Ion Ratio Lower Upper
63 100
65 33.8 12.0 52.0





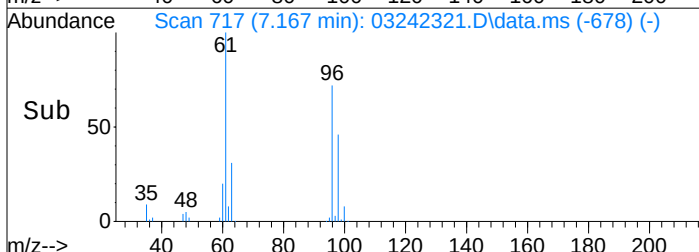
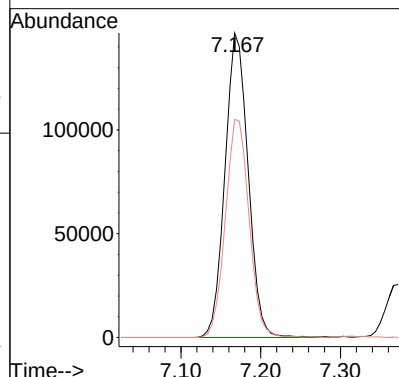
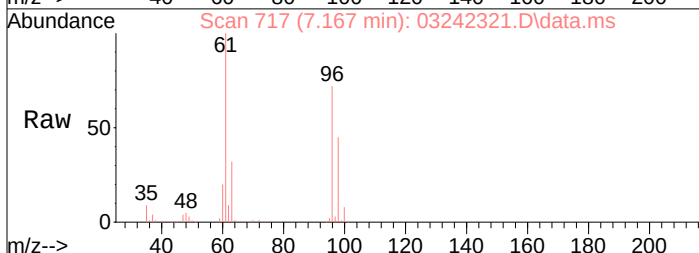
#27
2-Butanone (MEK)
Concen: 2.80 ng
RT: 6.76 min Scan# 645
Delta R.T. -0.023 min
Lab File: 03242321.D
Acq: 24 Mar 2023 18:35

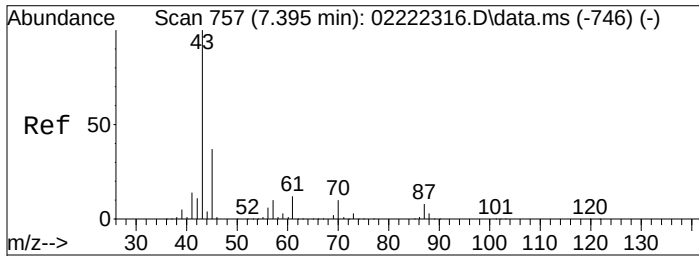
Tgt Ion: 72 Resp: 37566
Ion Ratio Lower Upper
72 100
43 437.6 400.5 440.5



#28
cis-1,2-Dichloroethene
Concen: 9.30 ng
RT: 7.17 min Scan# 717
Delta R.T. -0.028 min
Lab File: 03242321.D
Acq: 24 Mar 2023 18:35

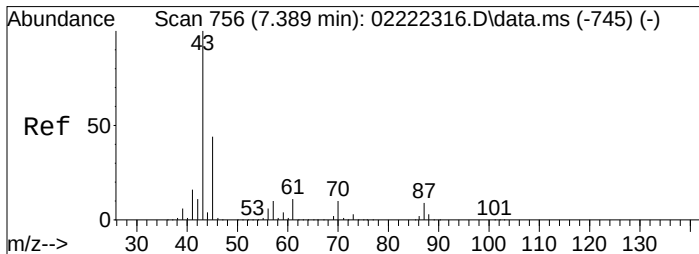
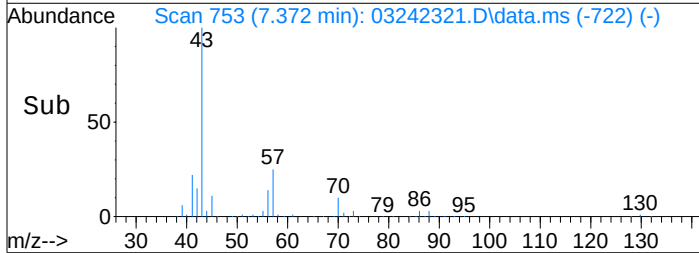
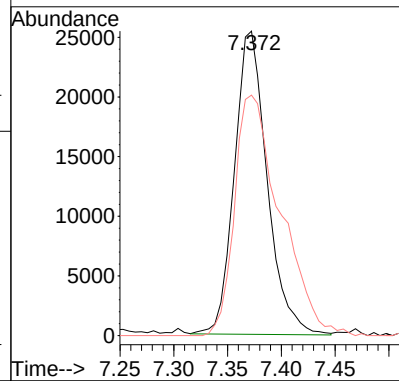
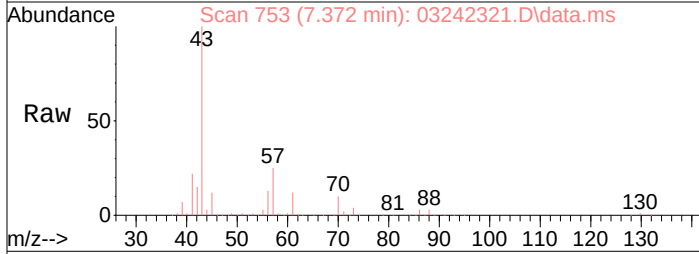
Tgt Ion: 61 Resp: 296078
Ion Ratio Lower Upper
61 100
96 73.5 54.5 94.5





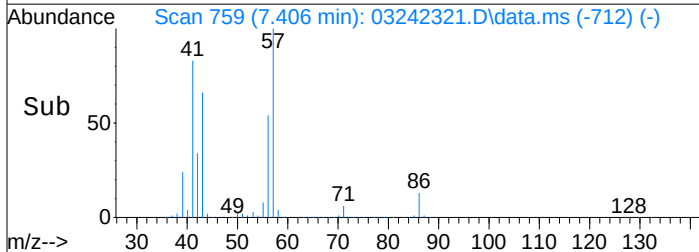
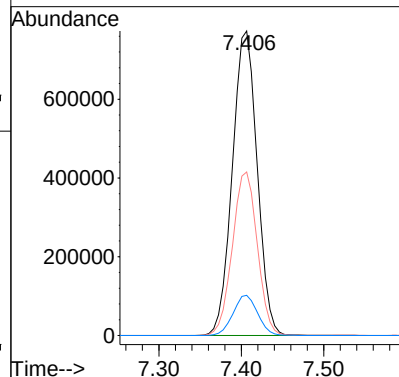
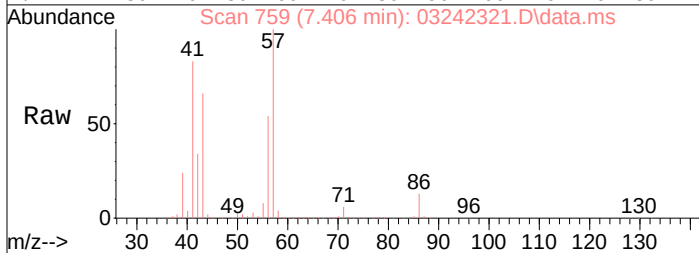
#30
Ethyl Acetate
Concen: 6.10 ng
RT: 7.37 min Scan# 753
Delta R.T. -0.023 min
Lab File: 03242321.D
Acq: 24 Mar 2023 18:35

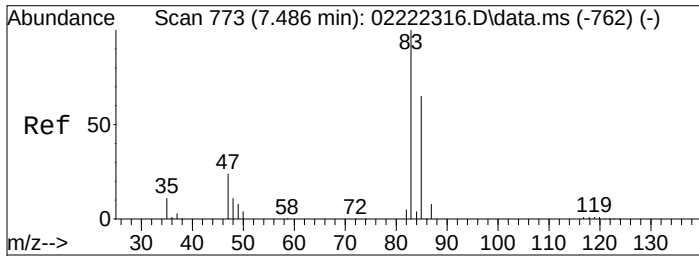
Tgt Ion: 61 Resp: 53851
Ion Ratio Lower Upper
61 100
70 111.0 65.6 105.6#



#31
n-Hexane
Concen: 47.66 ng
RT: 7.41 min Scan# 759
Delta R.T. 0.017 min
Lab File: 03242321.D
Acq: 24 Mar 2023 18:35

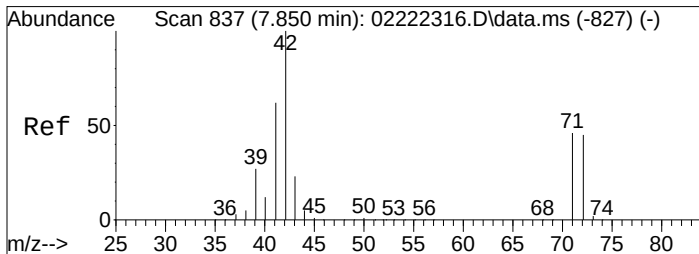
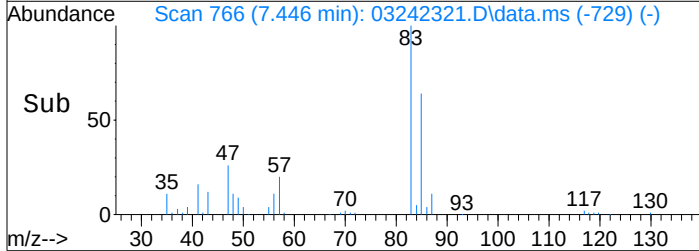
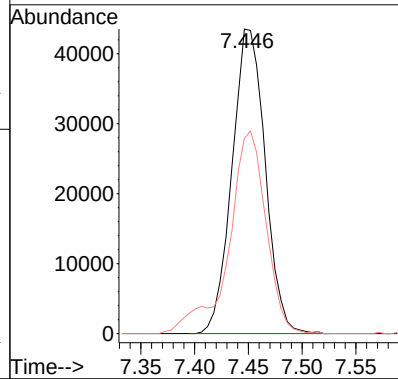
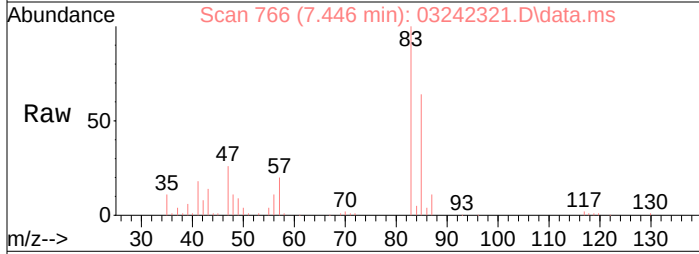
Tgt Ion: 57 Resp: 1618413
Ion Ratio Lower Upper
57 100
56 53.9 44.0 66.0
86 13.1 11.5 17.3





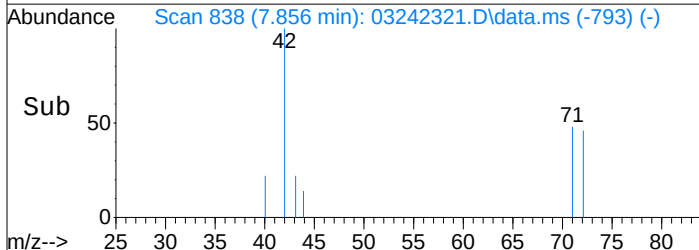
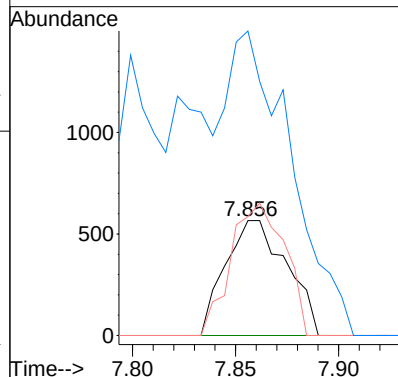
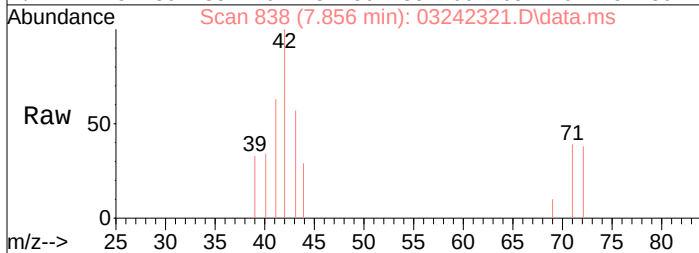
#32
Chloroform
Concen: 2.33 ng
RT: 7.45 min Scan# 766
Delta R.T. -0.040 min
Lab File: 03242321.D
Acq: 24 Mar 2023 18:35

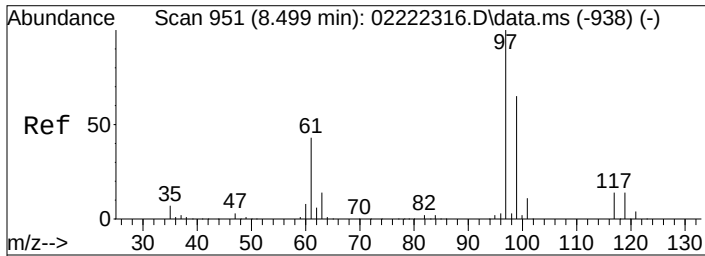
Tgt Ion: 83 Resp: 93400
Ion Ratio Lower Upper
83 100
85 74.8 45.0 85.0



#34
Tetrahydrofuran (THF)
Concen: 0.09 ng
RT: 7.86 min Scan# 838
Delta R.T. 0.006 min
Lab File: 03242321.D
Acq: 24 Mar 2023 18:35

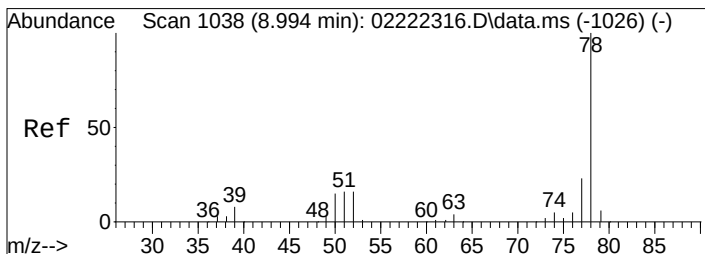
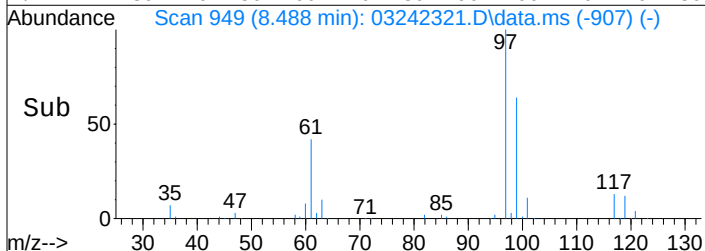
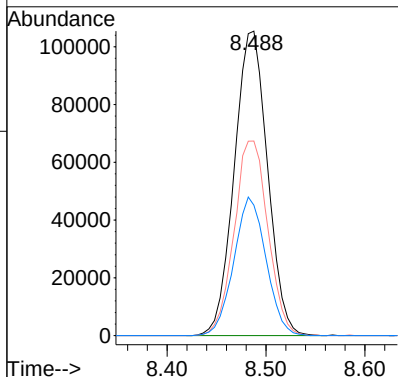
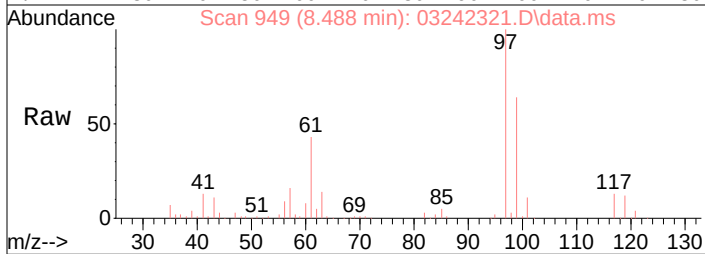
Tgt Ion: 72 Resp: 1176
Ion Ratio Lower Upper
72 100
71 101.0 79.8 119.8
42 283.3 199.0 239.0#





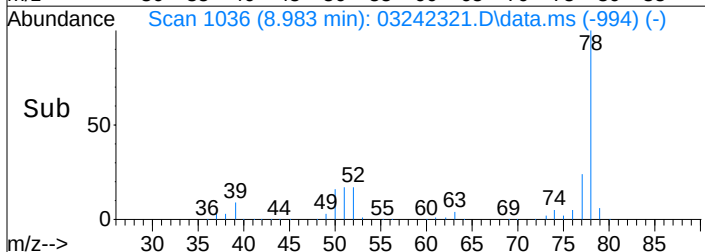
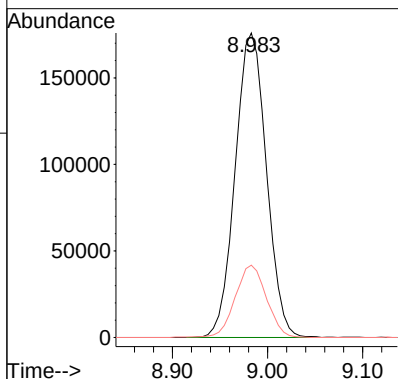
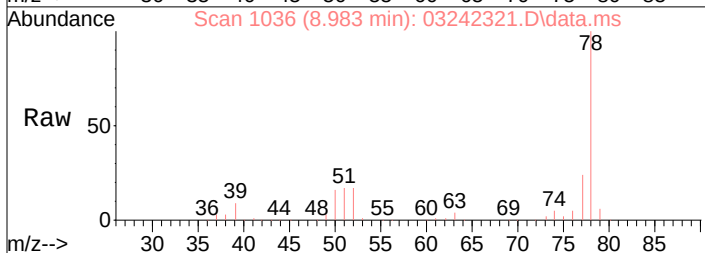
#38
 1,1,1-Trichloroethane
 Concen: 6.70 ng
 RT: 8.49 min Scan# 949
 Delta R.T. -0.011 min
 Lab File: 03242321.D
 Acq: 24 Mar 2023 18:35

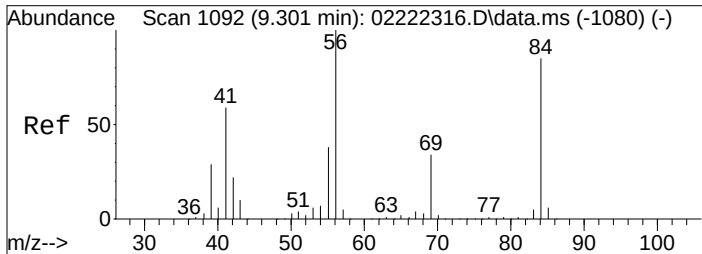
Tgt Ion:	97	Resp:	246561
Ion Ratio		Lower	Upper
97	100		
99	64.9	44.9	84.9
61	44.0	23.5	63.5



#41
 Benzene
 Concen: 4.64 ng
 RT: 8.98 min Scan# 1036
 Delta R.T. -0.011 min
 Lab File: 03242321.D
 Acq: 24 Mar 2023 18:35

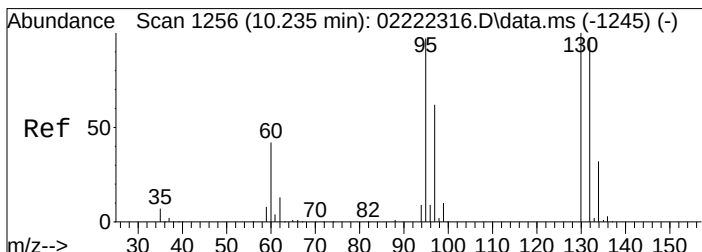
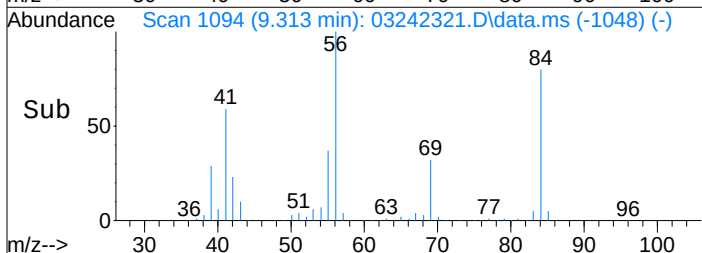
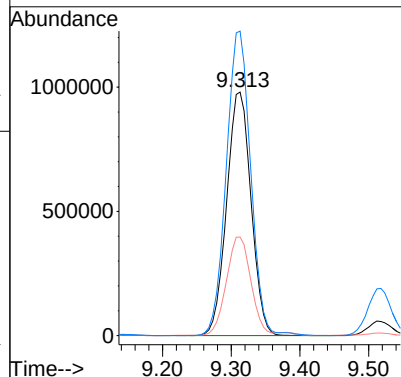
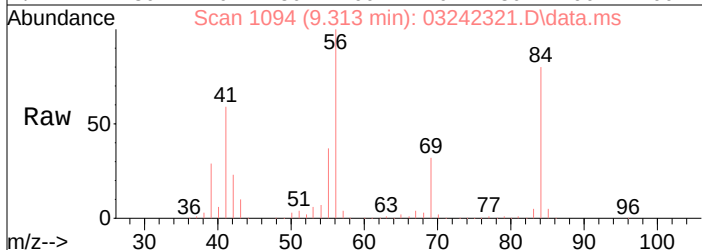
Tgt Ion:	78	Resp:	401463
Ion Ratio		Lower	Upper
78	100		
77	23.8	3.7	43.7





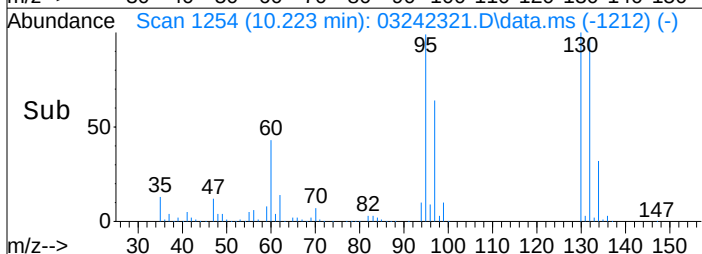
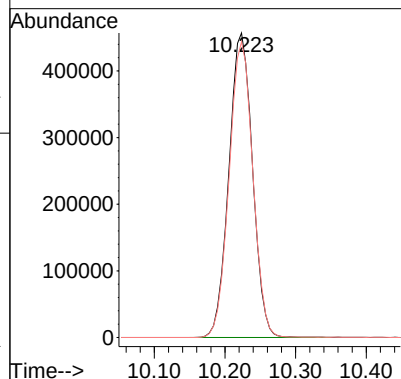
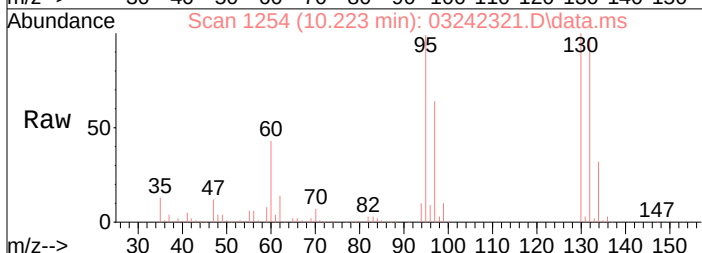
#43
 Cyclohexane
 Concen: 76.25 ng
 RT: 9.31 min Scan# 1094
 Delta R.T. 0.012 min
 Lab File: 03242321.D
 Acq: 24 Mar 2023 18:35

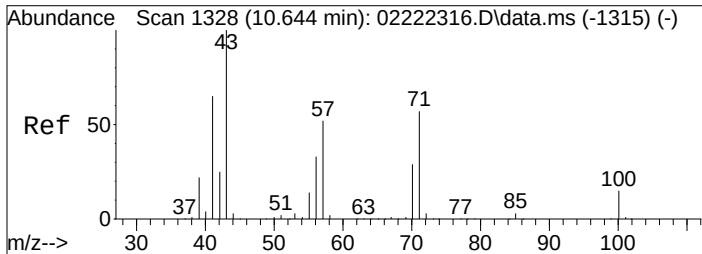
Tgt Ion:	84	Resp:	2417472
Ion Ratio		Lower	Upper
84	100		
69	40.6	20.0	60.0
56	125.1	98.5	138.5



#47
 Trichloroethene
 Concen: 41.88 ng
 RT: 10.22 min Scan# 1254
 Delta R.T. -0.011 min
 Lab File: 03242321.D
 Acq: 24 Mar 2023 18:35

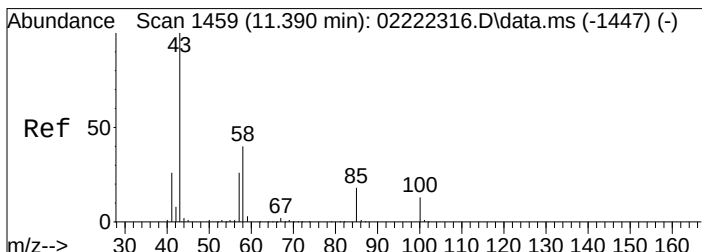
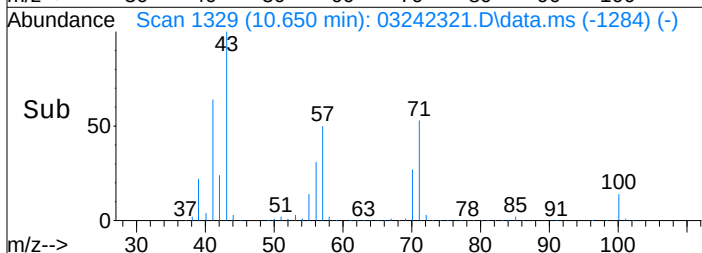
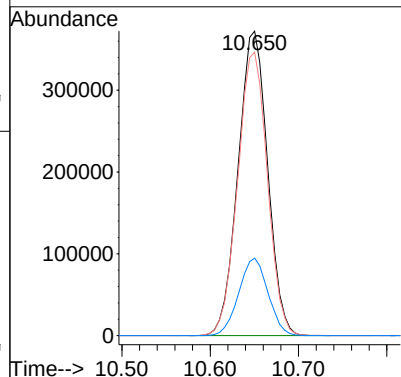
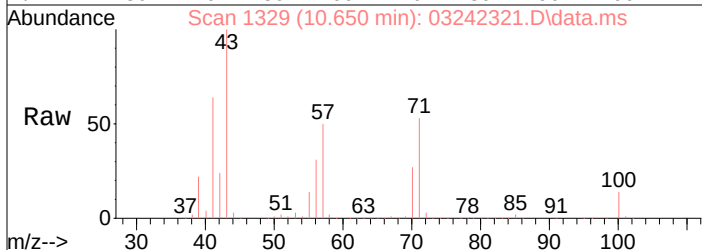
Tgt Ion:	130	Resp:	1061012
Ion Ratio		Lower	Upper
130	100		
132	97.4	76.3	116.3





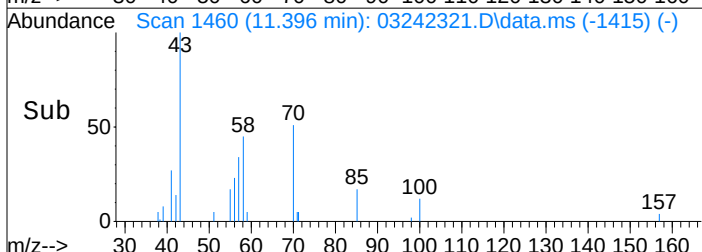
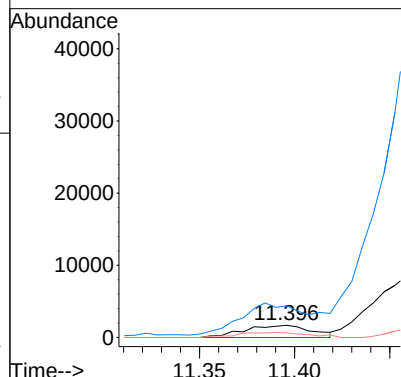
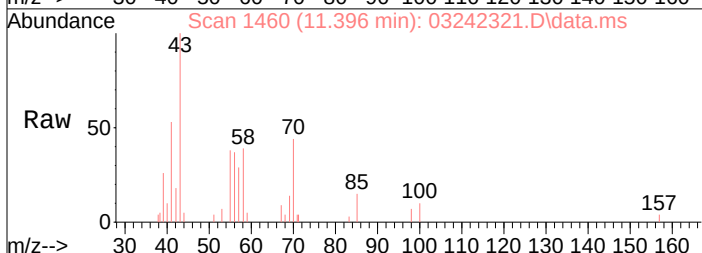
#51
n-Heptane
Concen: 41.33 ng
RT: 10.65 min Scan# 1329
Delta R.T. 0.006 min
Lab File: 03242321.D
Acq: 24 Mar 2023 18:35

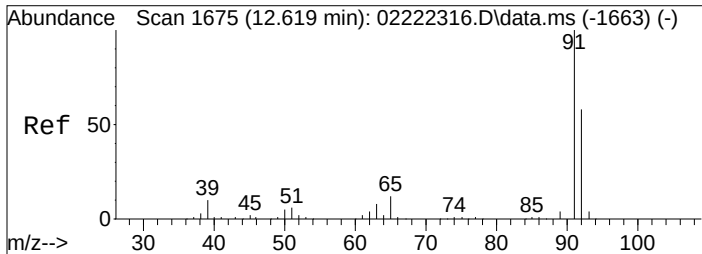
Tgt Ion: 71 Resp: 864960
Ion Ratio Lower Upper
71 100
57 93.7 71.7 111.7
100 25.1 5.8 45.8



#53
4-Methyl-2-pentanone
Concen: 0.22 ng
RT: 11.40 min Scan# 1460
Delta R.T. 0.006 min
Lab File: 03242321.D
Acq: 24 Mar 2023 18:35

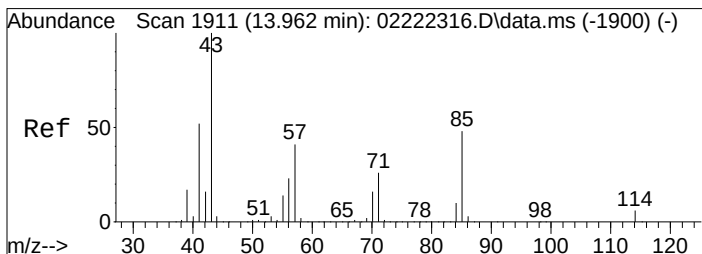
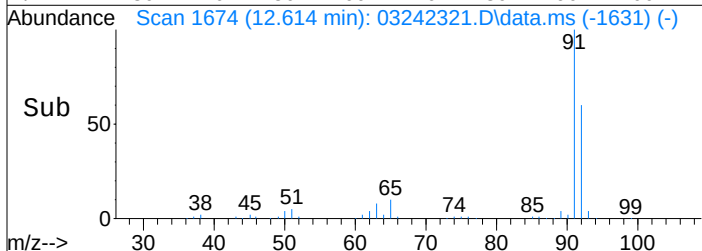
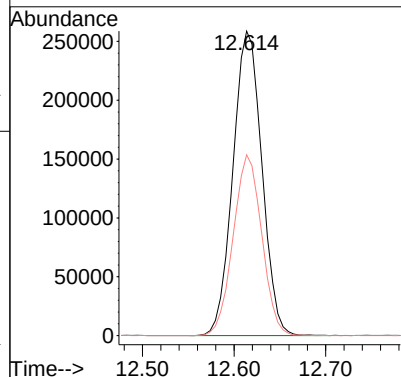
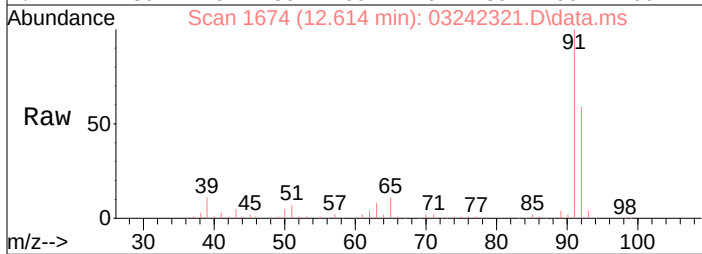
Tgt Ion: 58 Resp: 4137
Ion Ratio Lower Upper
58 100
85 43.4 38.6 58.0
43 232.1 202.2 303.2





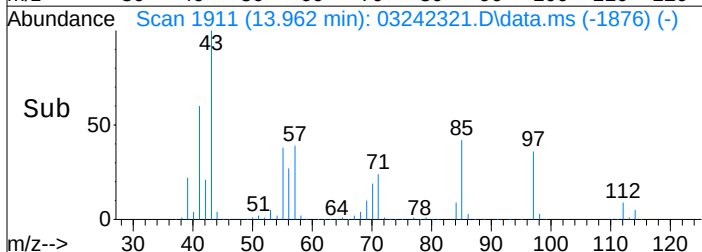
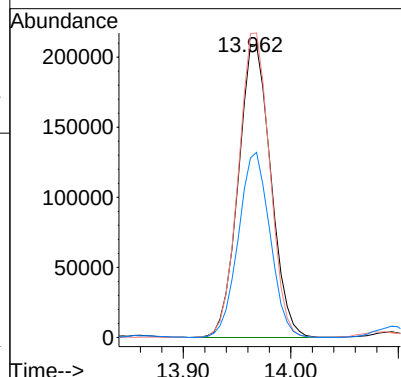
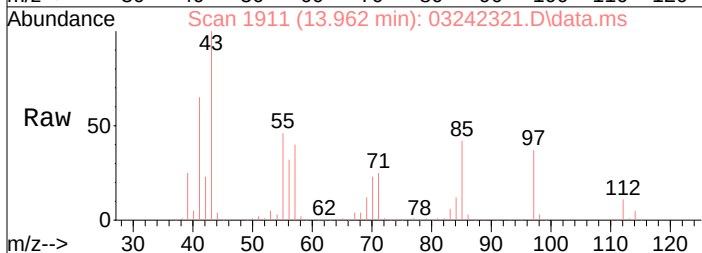
#58
Toluene
Concen: 5.19 ng
RT: 12.61 min Scan# 1674
Delta R.T. -0.006 min
Lab File: 03242321.D
Acq: 24 Mar 2023 18:35

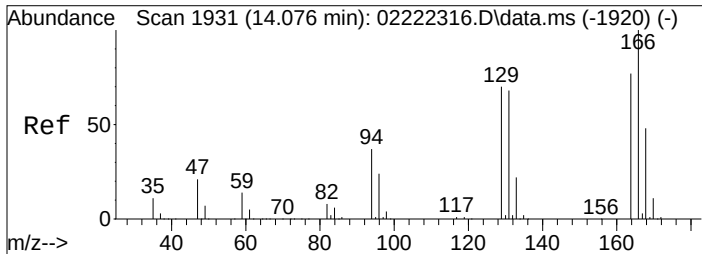
Tgt Ion: 91 Resp: 568557
Ion Ratio Lower Upper
91 100
92 58.5 38.0 78.0



#63
n-Octane
Concen: 20.46 ng
RT: 13.96 min Scan# 1911
Delta R.T. 0.000 min
Lab File: 03242321.D
Acq: 24 Mar 2023 18:35

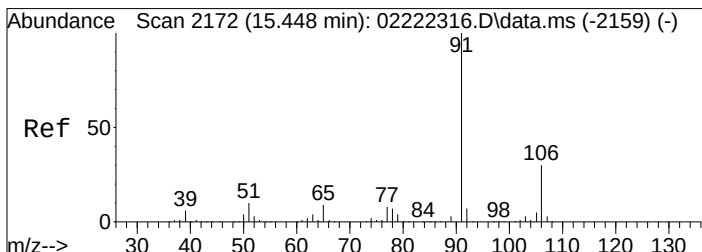
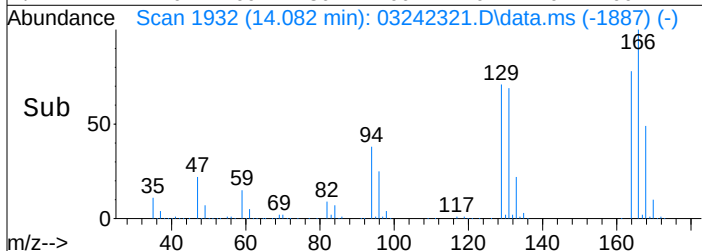
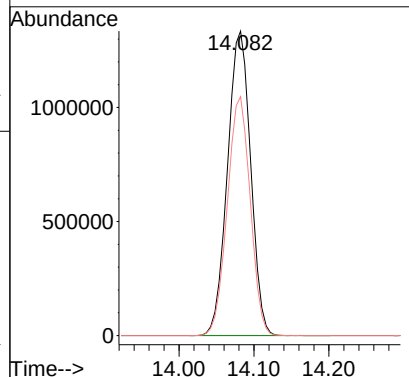
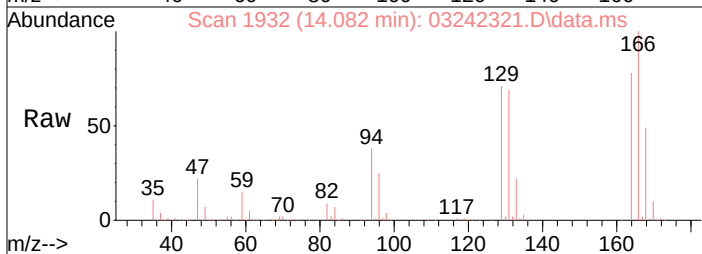
Tgt Ion: 57 Resp: 441036
Ion Ratio Lower Upper
57 100
85 99.7 94.1 141.1
71 61.3 52.6 79.0





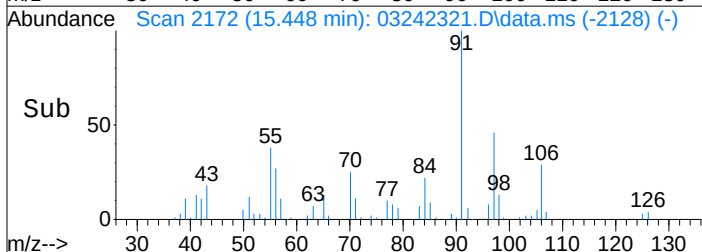
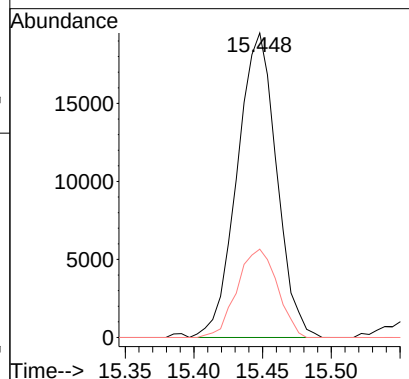
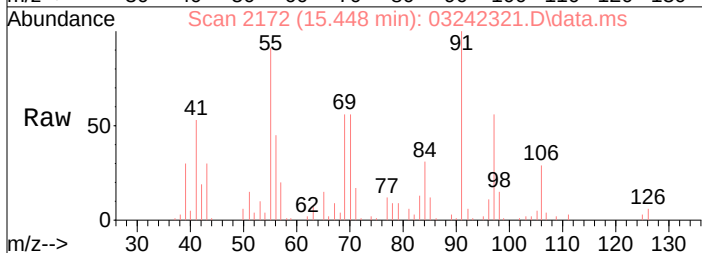
#64
 Tetrachloroethene
 Concen: 85.90 ng
 RT: 14.08 min Scan# 1932
 Delta R.T. 0.006 min
 Lab File: 03242321.D
 Acq: 24 Mar 2023 18:35

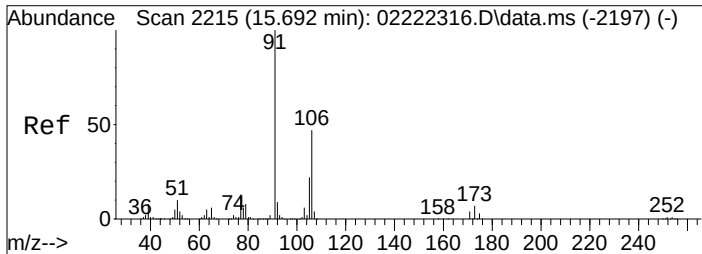
Tgt Ion	Ratio	Lower	Upper
166	100		
164	77.8	57.3	97.3



#66
 Ethylbenzene
 Concen: 0.30 ng
 RT: 15.45 min Scan# 2172
 Delta R.T. 0.000 min
 Lab File: 03242321.D
 Acq: 24 Mar 2023 18:35

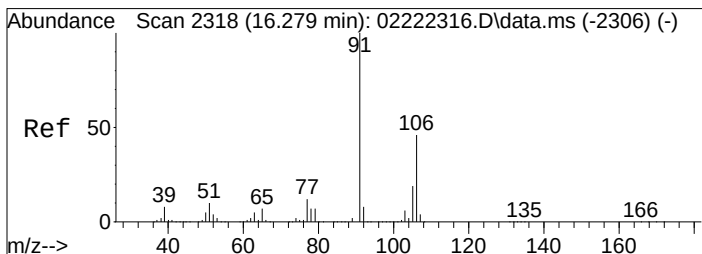
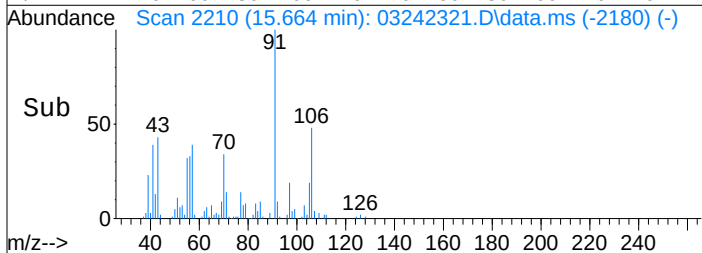
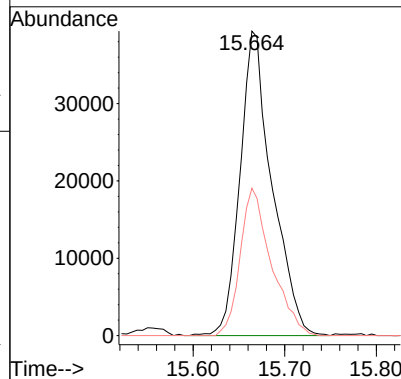
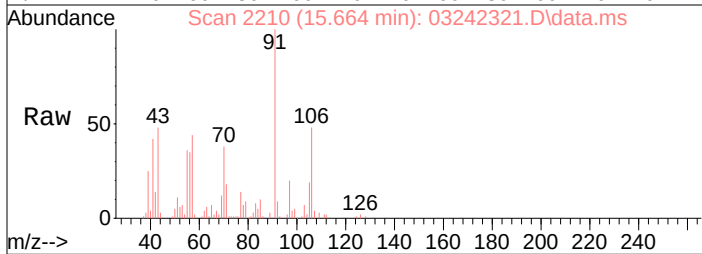
Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.6	10.4	50.4





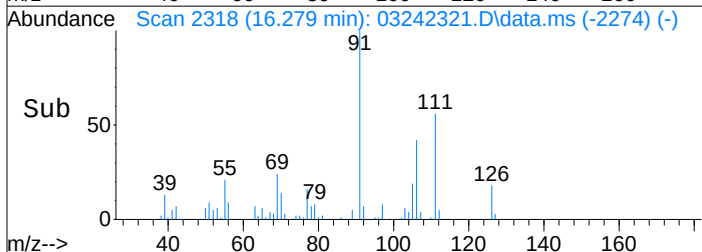
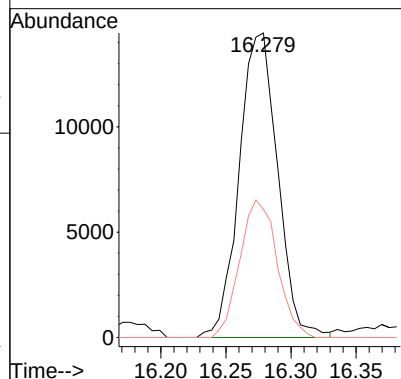
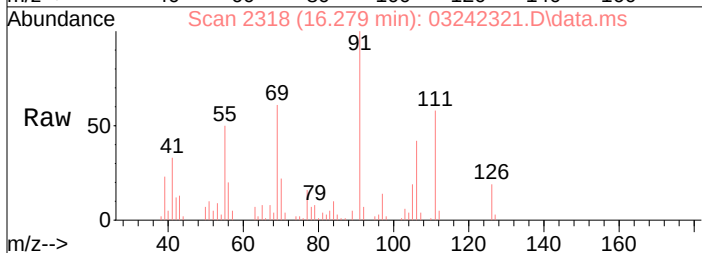
#67
m- & p-Xylenes
Concen: 0.91 ng
RT: 15.66 min Scan# 2210
Delta R.T. -0.028 min
Lab File: 03242321.D
Acq: 24 Mar 2023 18:35

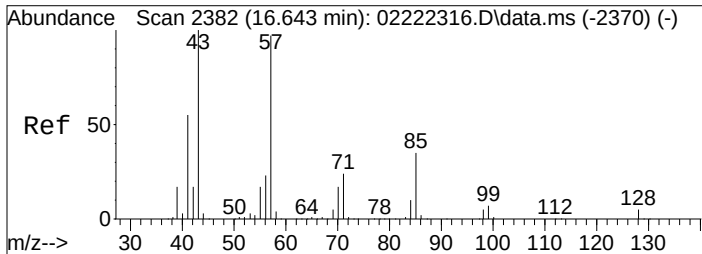
Tgt Ion:	91	Resp:	95689
Ion Ratio	Lower	Upper	
91	100		
106	47.1	26.2	66.2



#70
o-Xylene
Concen: 0.30 ng
RT: 16.28 min Scan# 2318
Delta R.T. 0.000 min
Lab File: 03242321.D
Acq: 24 Mar 2023 18:35

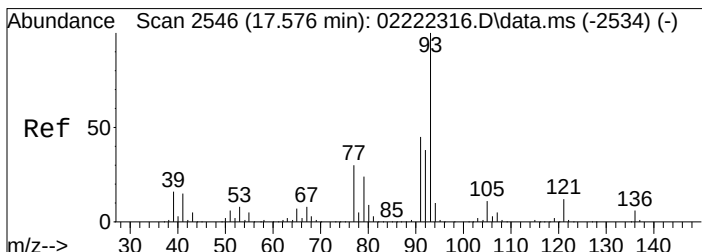
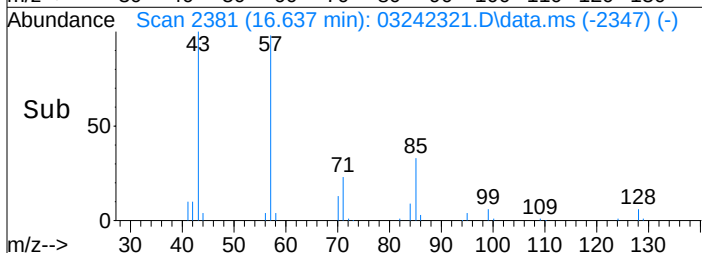
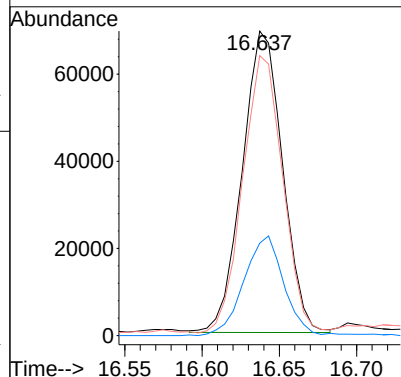
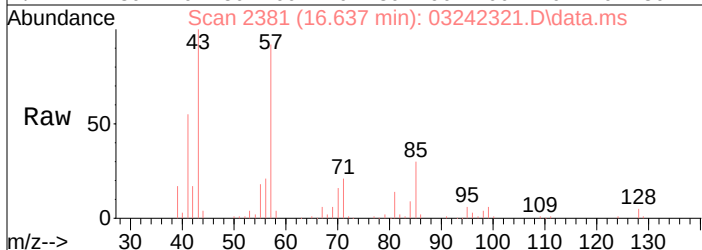
Tgt Ion:	91	Resp:	29726
Ion Ratio	Lower	Upper	
91	100		
106	43.8	25.4	65.4





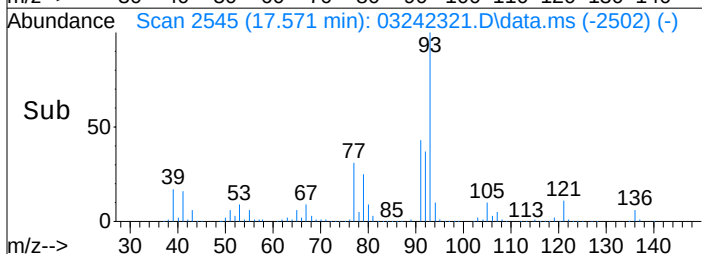
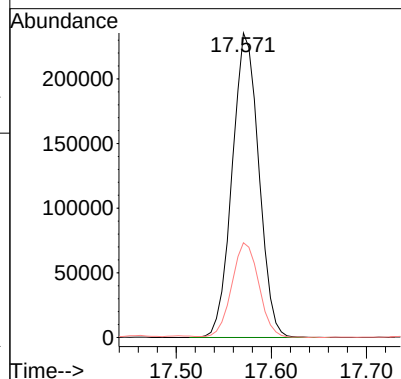
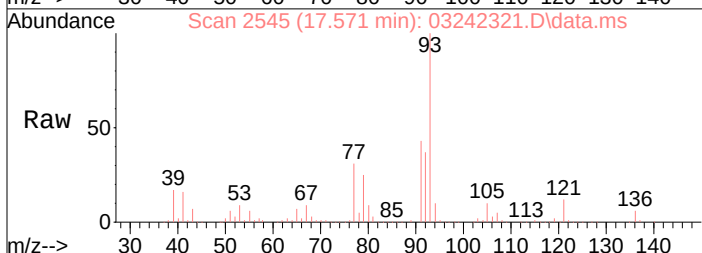
#71
n-Nonane
Concen: 2.59 ng
RT: 16.64 min Scan# 2381
Delta R.T. -0.006 min
Lab File: 03242321.D
Acq: 24 Mar 2023 18:35

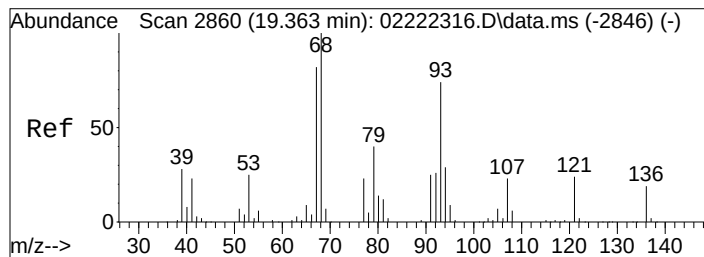
Tgt Ion:	43	Resp:	125944
Ion Ratio		Lower	Upper
43	100		
57	91.8	74.2	114.2
85	33.0	14.2	54.2



#75
alpha-Pinene
Concen: 8.10 ng
RT: 17.57 min Scan# 2545
Delta R.T. -0.006 min
Lab File: 03242321.D
Acq: 24 Mar 2023 18:35

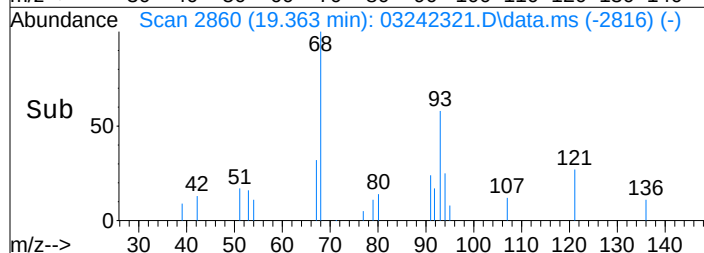
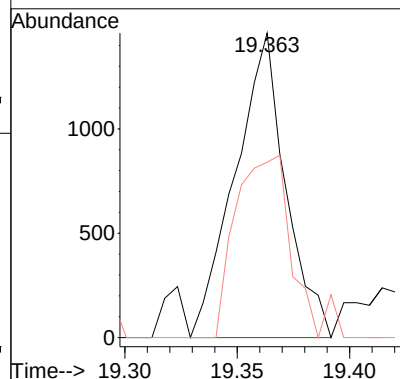
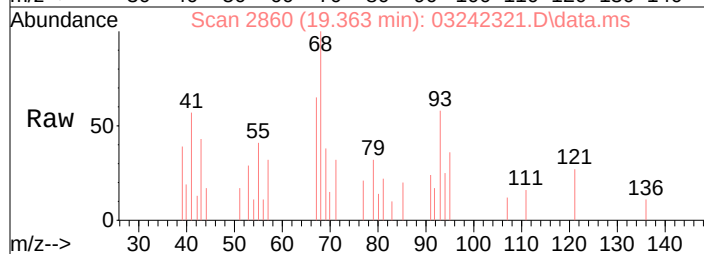
Tgt Ion:	93	Resp:	457757
Ion Ratio		Lower	Upper
93	100		
77	31.8	11.1	51.1





#91
d-Limonene
Concen: 0.07 ng
RT: 19.36 min Scan# 2860
Delta R.T. 0.000 min
Lab File: 03242321.D
Acq: 24 Mar 2023 18:35

Tgt Ion: 68 Resp: 2282
Ion Ratio Lower Upper
68 100
93 66.9 54.8 94.8



Data File : I:\MS13\DATA\2023_03\24\03242321.D
 Acq On : 24 Mar 2023 18:35
 Sample : P2301250-016 (1000mL)
 Misc : S35-01202301

Vial: 5
 Operator: TZ
 Inst : MS13

Tz 3/28/23

Quant Time: Mar 28 09:56:23 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.32	130	250512	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	9.38	114	1112506	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	14.88	54	223930	12.500	ng	0.00

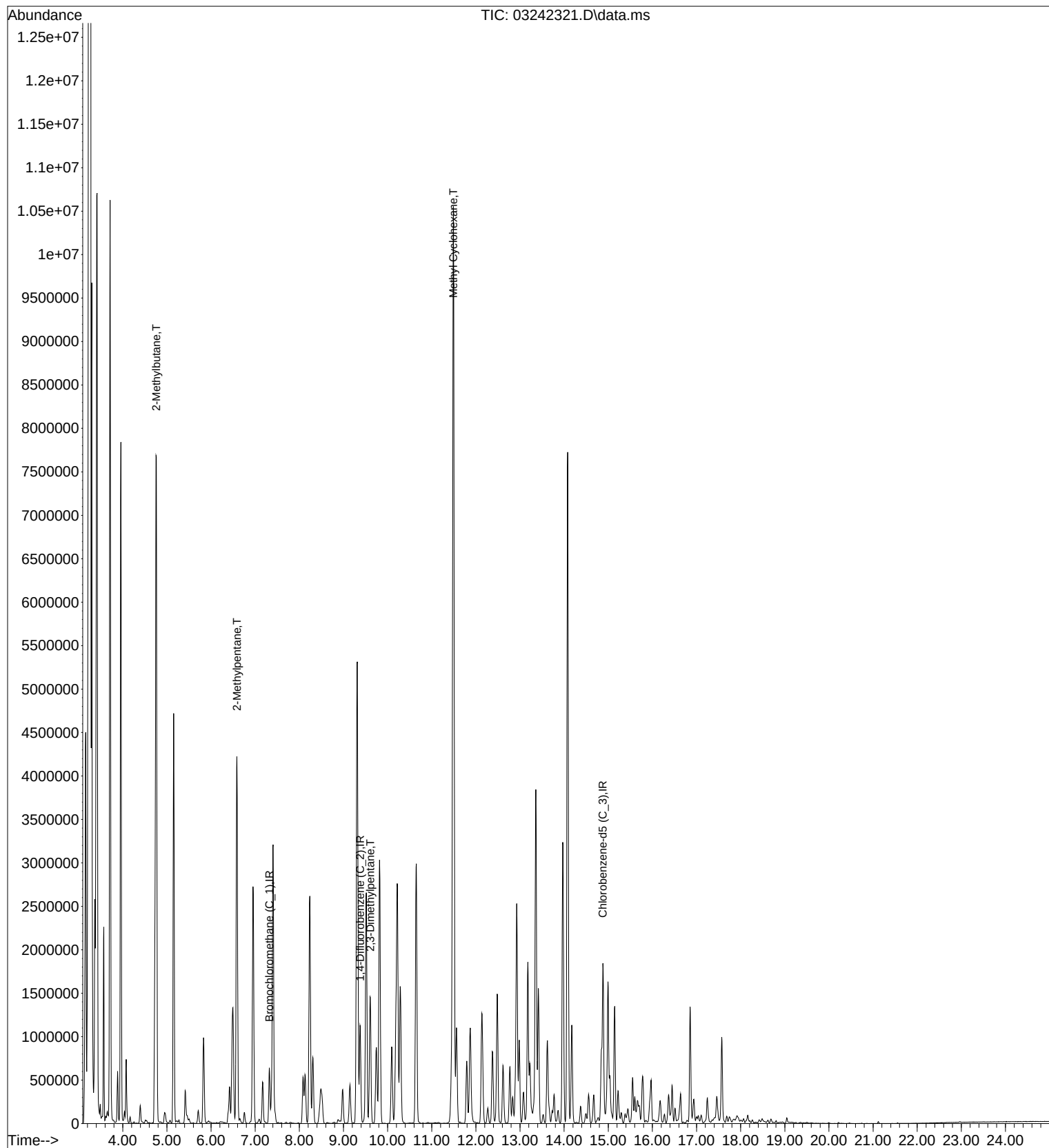
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	0.00	85	0	N.D.	d	
3) 1,1,1,2-Tetrafluoroeth...	0.00	83	0	N.D.	d	
4) 1,1-Difluoroethane	0.00	65	0	N.D.	d	
5) Chlorodifluoromethane ...	0.00	67	0	N.D.	d	
6) 1-Chloro-1,1-Difluoroe...	3.62	65	962	N.D.		
7) Dichlorofluoromethane ...	4.33	67	366	N.D.		
8) Vinylbromide	4.53	108	62	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	4.68	83	238	N.D.		
10) 2-Methylbutane	4.76	57	2107663	115.034	ng	90
11) Methyl Acetate	0.00	43	0	N.D.	d	
12) 2-Methylpentane	6.59	71	1057952	60.439	ng	82
13) 2,2-Dichloropropane	7.41	77	1836	N.D.		
14) 1,1-Dichloropropene	8.83	75	53	N.D.		
15) Thiophene	0.00	84	0	N.D.	d	
17) 2,3-Dimethylpentane	9.61	56	770034	23.494	ng	95
18) Dibromomethane	9.87	174	450	N.D.		
20) Methyl Cyclohexane	11.49	55	4811593	129.081	ng	92
21) 1,3-Dichloropropane	12.61	76	2728	N.D.		
22) 1,1,1,2-Tetrachloroethane	14.91	131	106	N.D.		
23) 1-Chlorohexane	15.23	91	3160	N.D.		
24) 1,2,3-Trichloropropane	16.42	75	355	N.D.		
25) Bromobenzene	17.11	77	1334	N.D.		
26) 2-Chlorotoluene	17.67	91	728	N.D.		
27) 4-Chlorotoluene	17.64	91	155	N.D.		
28) Indane	19.40	117	656	N.D.		
29) Indene	0.00	115	0	N.D.		
30) 1,2,4,5-Tetramethylben...	20.64	119	251	N.D.		
31) 1,2,3,4-Tetramethylben...	20.64	119	251	N.D.		
32) 1,2,3,5-Tetramethylben...	21.15	119	386	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242321.D
Acq On : 24 Mar 2023 18:35
Sample : P2301250-016 (1000mL)
Misc : S35-01202301

Vial: 5
Operator: TZ
Inst : MS13

Quant Time: Mar 28 09:56:23 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\28\03282308.D
 Acq On : 28 Mar 2023 10:33
 Sample : P2301250-016dil (100mL)
 Misc : S35-01202301

Vial: 2
 Operator: TZ
 Inst : MS13

T2 3/28/23

Quant Time: Mar 28 10:58:54 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.30	130	233601	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	9.36	114	1019495	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.87	54	192884	12.500	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.07	65	403570	13.018	ng	-0.05
Spiked Amount	12.500	Range	70 - 130	Recovery	=	104.16%
57) Toluene-d8 (SS2)	12.47	98	1151924	11.613	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.88%
73) Bromofluorobenzene (SS3)	16.85	174	417050	11.479	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	91.84%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	3.46	85	2011	N.D.		
4) Chloromethane	3.62	50	989	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	3.79	62	975	N.D.		
7) 1,3-Butadiene	3.86	54	389	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	4.38	45	23111	1.393	ng	93
11) Acetonitrile	4.55	41	775	N.D.		
12) Acrolein	4.64	56	252	N.D.		
13) Acetone	0.00	58	0	N.D.	d	
14) Trichlorofluoromethane	4.85	101	793	N.D.		
15) 2-Propanol (Isopropanol)	4.94	45	17660	0.309	ng	84
16) Acrylonitrile	0.00	53	0	N.D.	d	
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.45	84	2549	0.123	ng	# 77
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	5.70	76	24794	0.302	ng	98
23) trans-1,2-Dichloroethene	6.22	61	690	N.D.		
24) 1,1-Dichloroethane	6.40	63	35626	0.964	ng	98
25) Methyl tert-Butyl Ether	6.47	73	308	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	6.76	72	3278	0.261	ng	# 86
28) cis-1,2-Dichloroethene	7.15	61	24751	0.829	ng	100
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	7.37	61	4445	0.538	ng	# 78
31) n-Hexane	7.38	57	139448	4.383	ng	99
32) Chloroform	7.43	83	7573	0.201	ng	91
34) Tetrahydrofuran (THF)	7.87	72	119	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.21	62	624	N.D.		
38) 1,1,1-Trichloroethane	8.46	97	21180	0.628	ng	98
39) Isopropyl Acetate	9.36	61	28789	No Calib		
40) 1-Butanol	8.90	56	2629	No Calib	#	
41) Benzene	8.97	78	33858	0.427	ng	96
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	9.28	84	215677	7.418	ng	96
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.	d	
47) Trichloroethene	10.20	130	89597	3.856	ng	98
48) 1,4-Dioxane	10.22	88	375	N.D.		
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.	d	
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS13\DATA\2023_03\28\03282308.D
 Acq On : 28 Mar 2023 10:33
 Sample : P2301250-016dil (100mL)
 Misc : S35-01202301

Vial: 2
 Operator: TZ
 Inst : MS13

Quant Time: Mar 28 10:58:54 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

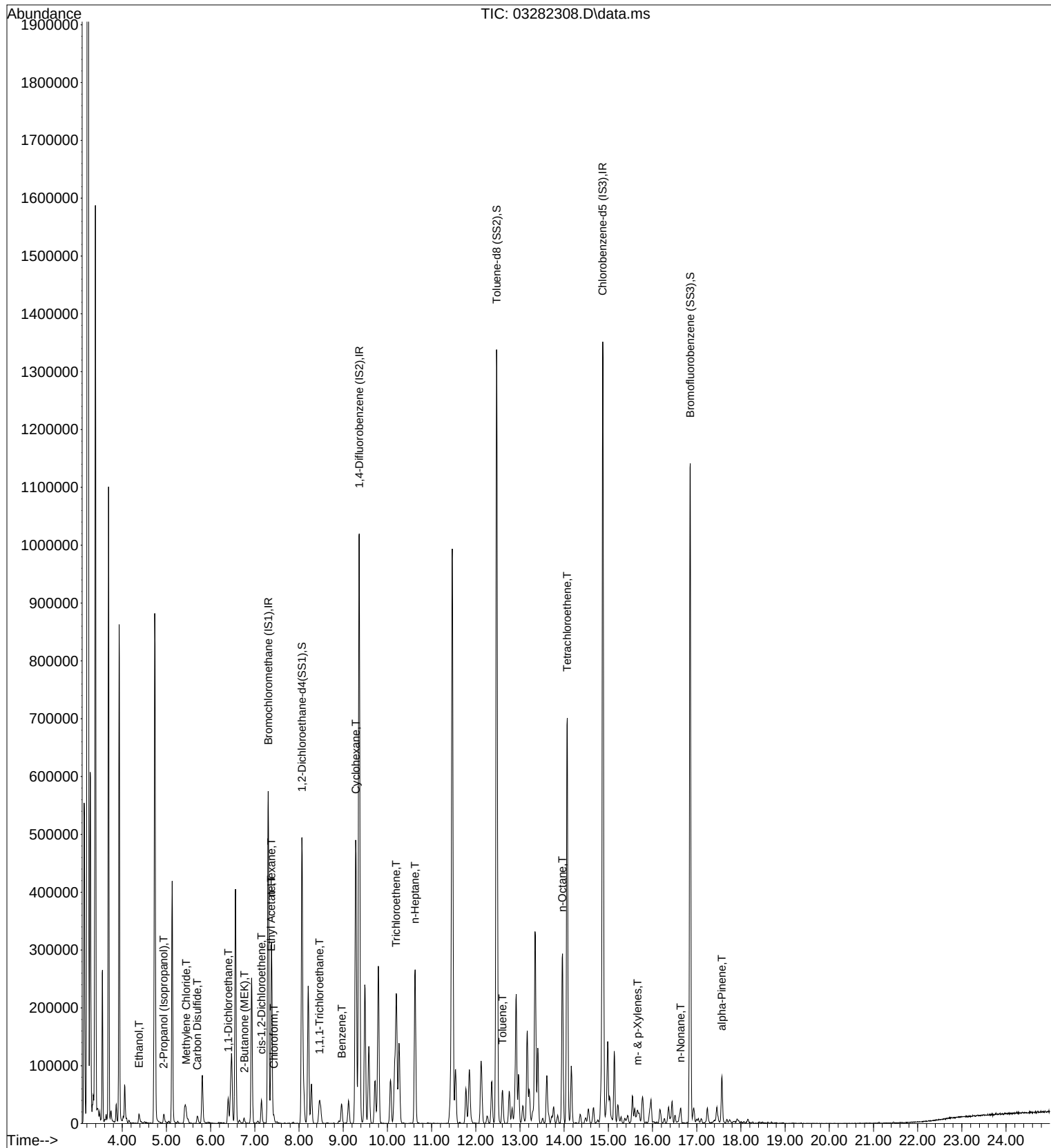
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.63	71	73999	3.856	ng	97
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.	d	
58) Toluene	12.60	91	48213	0.511	ng	98
59) 2-Hexanone	0.00	43	0	N.D.	d	
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.86	43	1115	N.D.		
63) n-Octane	13.96	57	37038	1.995	ng	89
64) Tetrachloroethene	14.07	166	254008	8.842	ng	100
65) Chlorobenzene	0.00	112	0	N.D.	d	
66) Ethylbenzene	15.44	91	3420	N.D.		
67) m- & p-Xylenes	15.66	91	8800	0.097	ng	97
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	16.27	91	2885	N.D.		
71) n-Nonane	16.64	43	11504	0.274	ng	89
72) 1,1,2,2-Tetrachloroethane	16.27	83	173	N.D.		
74) Cumene	17.06	105	761	N.D.		
75) alpha-Pinene	17.57	93	36595	0.752	ng	98
76) n-Propylbenzene	17.75	91	674	N.D.		
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	278	N.D.		
79) 1,3,5-Trimethylbenzene	18.07	105	146	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.61	105	165	N.D.		
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	18.77	91	188	N.D.		
85) 1,3-Dichlorobenzene	18.78	146	136	N.D.		
86) 1,4-Dichlorobenzene	18.78	146	136	N.D.		
87) sec-Butylbenzene	18.96	105	382	N.D.		
88) 4-Isopropyltoluene (p-...	19.18	119	391	N.D.		
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	19.36	68	131	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	21.45	180	1052	N.D.		
95) Naphthalene	21.59	128	691	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	21.99	225	264	N.D.		
98) Cyclohexanone	15.61	55	1036	No Calib	#	
99) tert-Butylbenzene	18.61	119	300	N.D.		
100) n-Butylbenzene	19.73	91	118	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\28\03282308.D
Acq On : 28 Mar 2023 10:33
Sample : P2301250-016dil (100mL)
Misc : S35-01202301

Vial: 2
Operator: TZ
Inst : MS13

Quant Time: Mar 28 10:58:54 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\28\03282308.D
 Acq On : 28 Mar 2023 10:33
 Sample : P2301250-016dil (100mL)
 Misc : S35-01202301

Vial: 2
 Operator: TZ
 Inst : MS13

Quant Time: Mar 28 10:57:39 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Tz 3/28/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.30	130	233601	12.500	ng	-0.02
16) 1,4-Difluorobenzene (C_2)	9.36	114	1019531	12.500	ng	-0.02
19) Chlorobenzene-d5 (C_3)	14.87	54	192884	12.500	ng	0.00

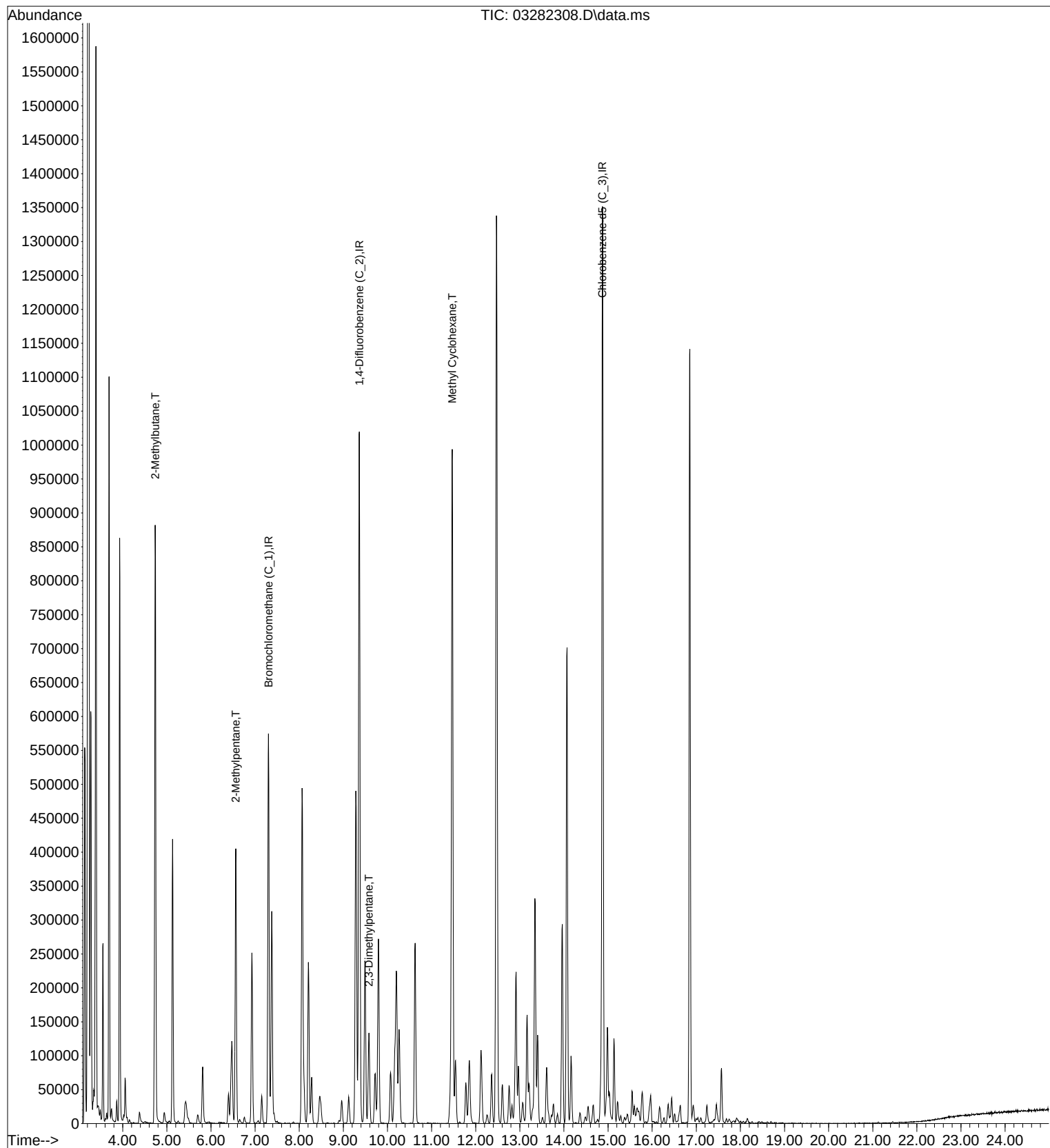
Target Compounds						Qvalue
2) Chloropentafluoroethane	0.00	85	0	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	0.00	83	0	N.D. d		
4) 1,1-Difluoroethane	0.00	65	0	N.D.		
5) Chlorodifluoromethane ...	0.00	67	0	N.D.		
6) 1-Chloro-1,1-Difluoroe...	0.00	65	0	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	4.74	57	193451	11.323	ng	90
11) Methyl Acetate	0.00	43	0	N.D. d		
12) 2-Methylpentane	6.56	71	90744	5.559	ng	78
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	9.10	84	776	N.D.		
17) 2,3-Dimethylpentane	9.58	56	67014	2.231	ng	94
18) Dibromomethane	9.85	174	369	N.D.		
20) Methyl Cyclohexane	11.47	55	436677	13.600	ng	88
21) 1,3-Dichloropropane	12.59	76	139	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	15.22	91	85	N.D.		
24) 1,2,3-Trichloropropane	0.00	75	0	N.D.		
25) Bromobenzene	17.25	77	411	N.D.		
26) 2-Chlorotoluene	17.75	91	674	N.D.		
27) 4-Chlorotoluene	17.75	91	674	N.D.		
28) Indane	0.00	117	0	N.D.		
29) Indene	0.00	115	0	N.D.		
30) 1,2,4,5-Tetramethylben...	0.00	119	0	N.D.		
31) 1,2,3,4-Tetramethylben...	0.00	119	0	N.D.		
32) 1,2,3,5-Tetramethylben...	0.00	119	0	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\28\03282308.D
Acq On : 28 Mar 2023 10:33
Sample : P2301250-016dil (100mL)
Misc : S35-01202301

Vial: 2
Operator: TZ
Inst : MS13

Quant Time: Mar 28 10:57:39 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M

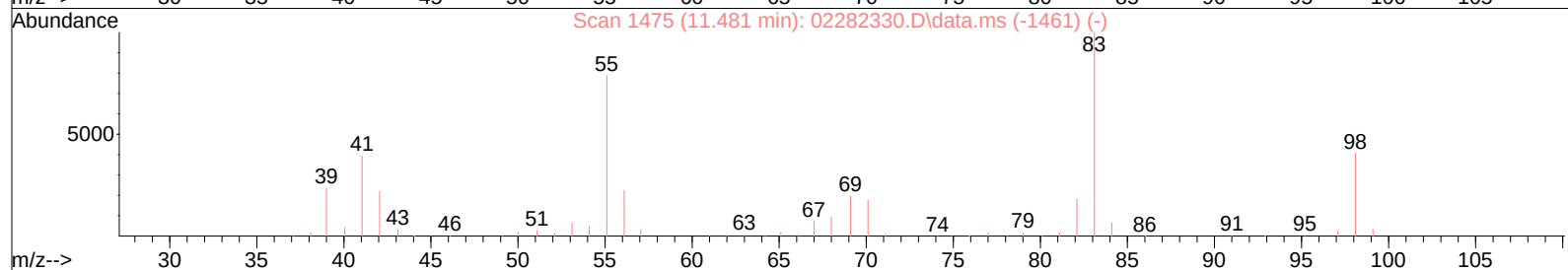
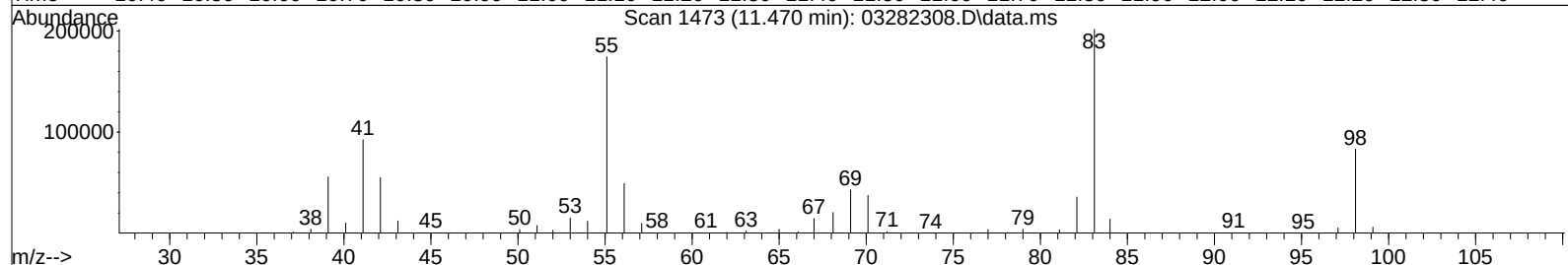
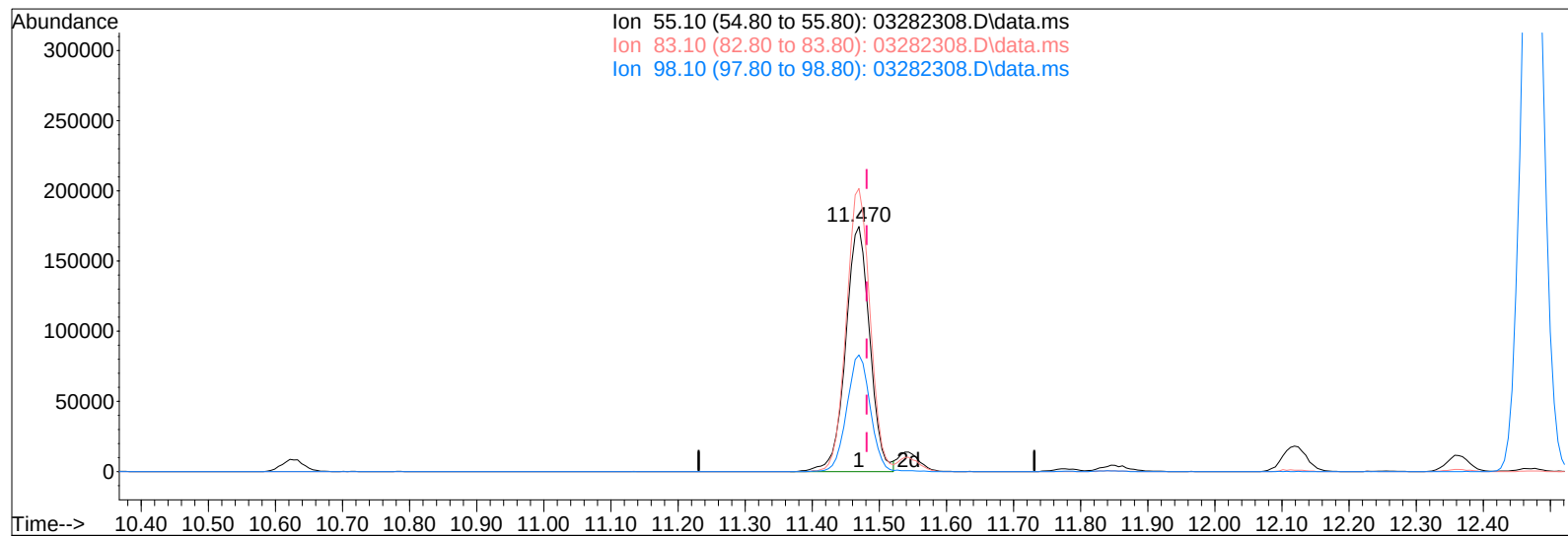


Quantitation Report (Qedit)

Data File : I:\MS13\DATA\2023_03\28\03282308.D
 Acq On : 28 Mar 2023 10:33
 Sample : P2301250-016dil (100mL)
 Misc : S35-01202301

Vial: 2
 Operator: TZ
 Inst : MS13

Quant Time: Mar 28 10:57:25 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M



TIC: 03282308.D\data.ms

(20) Methyl Cyclohexane (T)

11.470min (-0.011) 13.60ng

response 436677

Ion	Exp%	Act%
55.10	100	100
83.10	128.30	113.51
98.10	53.10	46.40
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG21-1

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-017

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01666

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.15 Final Pressure (psig): 4.60

Container Dilution Factor: 1.67

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.6	0.89	0.15	0.52	0.18	0.029	
74-87-3	Chloromethane	ND	0.35	0.14	ND	0.17	0.070	
75-01-4	Vinyl Chloride	ND	0.18	0.095	ND	0.072	0.037	
74-83-9	Bromomethane	ND	0.35	0.12	ND	0.090	0.032	
75-00-3	Chloroethane	ND	0.35	0.11	ND	0.13	0.042	
67-64-1	Acetone	33	8.8	2.0	14	3.7	0.84	
75-69-4	Trichlorofluoromethane	1.2	0.87	0.14	0.21	0.15	0.024	
75-35-4	1,1-Dichloroethene	ND	0.18	0.12	ND	0.046	0.031	
75-09-2	Methylene Chloride	4.0	0.89	0.25	1.2	0.25	0.072	
76-13-1	Trichlorotrifluoroethane	0.47	0.90	0.13	0.061	0.12	0.017	J
75-15-0	Carbon Disulfide	ND	1.8	0.27	ND	0.57	0.086	
156-60-5	trans-1,2-Dichloroethene	ND	0.18	0.12	ND	0.046	0.031	
75-34-3	1,1-Dichloroethane	ND	0.18	0.13	ND	0.045	0.032	
1634-04-4	Methyl tert-Butyl Ether	ND	0.90	0.11	ND	0.25	0.029	
78-93-3	2-Butanone (MEK)	1.6	1.7	0.18	0.55	0.59	0.062	J
156-59-2	cis-1,2-Dichloroethene	0.75	0.18	0.13	0.19	0.046	0.032	
67-66-3	Chloroform	2.2	0.18	0.12	0.46	0.038	0.024	
107-06-2	1,2-Dichloroethane	ND	0.18	0.099	ND	0.045	0.024	
71-55-6	1,1,1-Trichloroethane	0.15	0.18	0.11	0.028	0.034	0.020	J
71-43-2	Benzene	0.56	0.18	0.13	0.18	0.058	0.040	
56-23-5	Carbon Tetrachloride	0.45	0.18	0.12	0.071	0.029	0.020	
110-82-7	Cyclohexane	1.7	1.8	0.25	0.49	0.51	0.073	J
78-87-5	1,2-Dichloropropane	ND	0.18	0.11	ND	0.040	0.024	
75-27-4	Bromodichloromethane	0.19	0.18	0.13	0.028	0.027	0.019	
79-01-6	Trichloroethene	3.2	0.18	0.12	0.60	0.034	0.022	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG21-1

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-017

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01666

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.15 Final Pressure (psig): 4.60

Container Dilution Factor: 1.67

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.90	0.14	ND	0.20	0.031	
108-10-1	4-Methyl-2-pentanone	0.36	1.8	0.12	0.087	0.45	0.030	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.85	0.18	ND	0.19	0.040	
79-00-5	1,1,2-Trichloroethane	ND	0.18	0.090	ND	0.034	0.017	
108-88-3	Toluene	16	0.89	0.11	4.4	0.23	0.029	
591-78-6	2-Hexanone	ND	1.8	0.11	ND	0.45	0.027	
124-48-1	Dibromochloromethane	ND	0.18	0.12	ND	0.022	0.014	
106-93-4	1,2-Dibromoethane	ND	0.18	0.10	ND	0.024	0.013	
127-18-4	Tetrachloroethene	1.6	0.18	0.12	0.24	0.027	0.017	
108-90-7	Chlorobenzene	ND	0.89	0.12	ND	0.19	0.026	
100-41-4	Ethylbenzene	2.7	0.89	0.13	0.63	0.20	0.029	
179601-23-1	m,p-Xylenes	7.7	1.8	0.23	1.8	0.42	0.054	
75-25-2	Bromoform	ND	0.90	0.18	ND	0.087	0.018	
100-42-5	Styrene	0.42	0.89	0.14	0.099	0.21	0.034	J
95-47-6	o-Xylene	2.1	0.89	0.13	0.48	0.20	0.030	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.18	0.12	ND	0.027	0.018	
98-82-8	Cumene	ND	0.90	0.13	ND	0.18	0.026	
541-73-1	1,3-Dichlorobenzene	ND	0.89	0.13	ND	0.15	0.022	
106-46-7	1,4-Dichlorobenzene	ND	0.89	0.14	ND	0.15	0.023	
95-50-1	1,2-Dichlorobenzene	ND	0.90	0.13	ND	0.15	0.022	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.8	0.17	ND	0.19	0.017	
120-82-1	1,2,4-Trichlorobenzene	ND	1.8	0.22	ND	0.25	0.029	
79-20-9	Methyl Acetate	ND	0.84	0.40	ND	0.28	0.13	X
108-87-2	Methylcyclohexane	3.2	0.84	0.43	0.80	0.21	0.11	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS13\DATA\2023_03\24\03242322.D
 Acq On : 24 Mar 2023 19:11
 Sample : P2301250-017 (1000mL)
 Misc : S35-01202301

Vial: 6
 Operator: TZ
 Inst : MS13

TZ 3/27/23

Quant Time: Mar 27 13:28:29 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	247107	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	9.38	114	1092519	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	205611	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	420119	12.811	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.48%
57) Toluene-d8 (SS2)	12.48	98	1226170	11.596	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.80%
73) Bromofluorobenzene (SS3)	16.85	174	454695	11.741	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.92%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	3.46	85	69101	1.527	ng	100
4) Chloromethane	0.00	50	0	N.D.	d	
5) 1,2-Dichloro-1,1,2,2-t...	3.73	135	1804	0.079	ng	89
6) Vinyl Chloride	3.80	62	1013	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.	d	
8) Bromomethane	4.14	94	340	N.D.		
9) Chloroethane	4.20	64	221	N.D.		
10) Ethanol	4.44	45	706877	40.279	ng	99
11) Acetonitrile	4.55	41	5918	0.130	ng	# 56
12) Acrolein	4.65	56	2239	0.154	ng	100
13) Acetone	4.74	58	297715	19.877	ng	98
14) Trichlorofluoromethane	4.86	101	28441	0.698	ng	96
15) 2-Propanol (Isopropanol)	4.98	45	220117	3.640	ng	99
16) Acrylonitrile	5.11	53	319	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.44	84	52877	2.408	ng	95
20) 3-Chloro-1-propene (Al...	5.61	41	152	N.D.		
21) Trichlorotrifluoroethane	5.68	151	5978	0.279	ng	90
22) Carbon Disulfide	5.71	76	13414	0.154	ng	97
23) trans-1,2-Dichloroethene	6.21	61	517	N.D.		
24) 1,1-Dichloroethane	6.42	63	1614	N.D.		
25) Methyl tert-Butyl Ether	6.41	73	2950	N.D.		
26) Vinyl Acetate	6.53	86	1816	0.448	ng	# 1
27) 2-Butanone (MEK)	6.76	72	12853	0.967	ng	98
28) cis-1,2-Dichloroethene	7.17	61	14241	0.451	ng	99
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	7.37	61	67429	7.712	ng	93
31) n-Hexane	7.38	57	38613	1.147	ng	98
32) Chloroform	7.45	83	53233	1.337	ng	98
34) Tetrahydrofuran (THF)	7.86	72	4160	0.305	ng	# 64
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.19	62	392	N.D.		
38) 1,1,1-Trichloroethane	8.48	97	3311	0.092	ng	94
39) Isopropyl Acetate	9.38	61	31652	No Calib		
40) 1-Butanol	8.88	56	57247	No Calib	#	
41) Benzene	8.98	78	28505	0.335	ng	99
42) Carbon Tetrachloride	9.14	117	8545	0.268	ng	99
43) Cyclohexane	9.28	84	31261	1.003	ng	94
44) tert-Amyl Methyl Ether	9.67	73	541	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	10.17	83	3517	0.112	ng	# 55
47) Trichloroethene	10.21	130	48037	1.929	ng	99
48) 1,4-Dioxane	0.00	88	0	N.D.	d	
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.	d	
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS13\DATA\2023_03\24\03242322.D
 Acq On : 24 Mar 2023 19:11
 Sample : P2301250-017 (1000mL)
 Misc : S35-01202301

Vial: 6
 Operator: TZ
 Inst : MS13

Quant Time: Mar 27 13:28:29 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

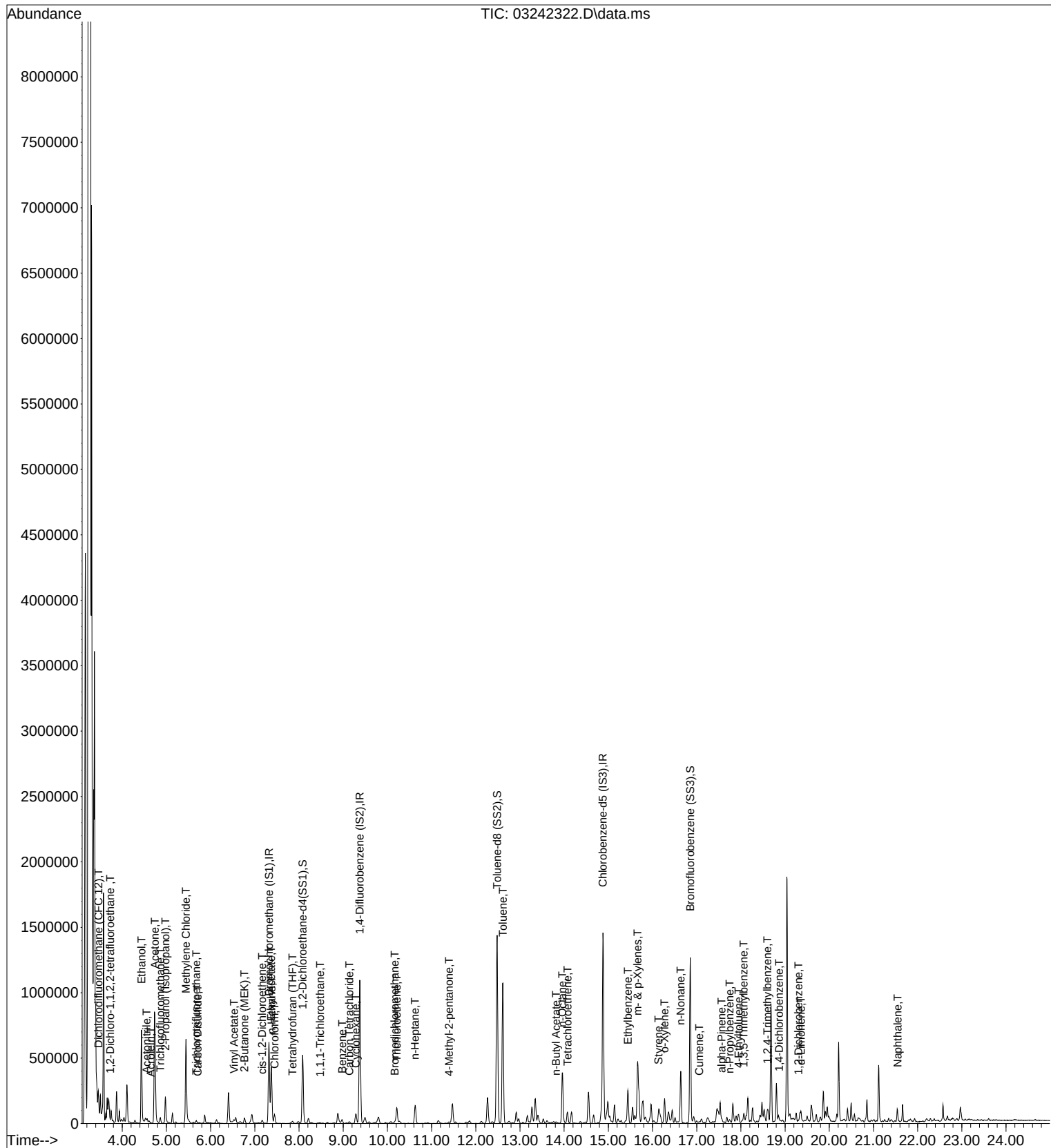
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.63	71	39401	1.916	ng	98
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.40	58	3924	0.214	ng	87
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	12.12	97	878	N.D.		
58) Toluene	12.61	91	994110	9.875	ng	99
59) 2-Hexanone	0.00	43	0	N.D.	d	
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.82	43	10470	0.188	ng	93
63) n-Octane	13.96	57	68288	3.450	ng	92
64) Tetrachloroethene	14.08	166	29674	0.969	ng	97
65) Chlorobenzene	0.00	112	0	N.D.	d	
66) Ethylbenzene	15.44	91	195827	1.631	ng	98
67) m- & p-Xylenes	15.66	91	446194	4.616	ng	98
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.14	104	16802	0.253	ng	95
70) o-Xylene	16.27	91	115028	1.245	ng	99
71) n-Nonane	16.64	43	163386	3.653	ng	97
72) 1,1,2,2-Tetrachloroethane	16.27	83	1174	N.D.		
74) Cumene	17.06	105	7987	0.071	ng	96
75) alpha-Pinene	17.56	93	10855	0.209	ng	91
76) n-Propylbenzene	17.75	91	14580	0.108	ng	99
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	13283	0.123	ng	100
79) 1,3,5-Trimethylbenzene	18.07	105	13054	0.137	ng	95
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.60	105	38993	0.415	ng	88
83) n-Decane	17.12	58	3018	No Calib	#	
84) Benzyl Chloride	18.75	91	658	N.D.		
85) 1,3-Dichlorobenzene	18.77	146	2416	N.D.		
86) 1,4-Dichlorobenzene	18.86	146	4445	0.075	ng	99
87) sec-Butylbenzene	18.96	105	2460	N.D.		
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.	d	
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.30	146	4019	0.071	ng	94
91) d-Limonene	19.36	68	17892	0.563	ng	97
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.26	58	2665	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	519	N.D.		
95) Naphthalene	21.55	128	15315	0.150	ng	93
96) n-Dodecane	19.20	58	292	No Calib	#	
97) Hexachlorobutadiene	21.99	225	113	N.D.		
98) Cyclohexanone	15.60	55	821	No Calib	#	
99) tert-Butylbenzene	0.00	119	0	N.D.	d	
100) n-Butylbenzene	0.00	91	0	N.D.	d	
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242322.D
Acq On : 24 Mar 2023 19:11
Sample : P2301250-017 (1000mL)
Misc : S35-01202301

Vial: 6
Operator: TZ
Inst : MS13

Quant Time: Mar 27 13:28:29 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242322.D
 Acq On : 24 Mar 2023 19:11
 Sample : P2301250-017 (1000mL)
 Misc : S35-01202301

Vial: 6
 Operator: TZ
 Inst : MS13

Quant Time: Mar 27 13:28:29 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	247107	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	9.38	114	1092519	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	205611	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	420119	12.811	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.48%
57) Toluene-d8 (SS2)	12.48	98	1226170	11.596	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.80%
73) Bromofluorobenzene (SS3)	16.85	174	454695	11.741	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.92%

Target Compounds

						Qvalue
3) Dichlorodifluoromethan...	3.46	85	69101	1.527	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	3.73	135	1804	0.079	ng	89
10) Ethanol	4.44	45	706877	40.279	ng	99
11) Acetonitrile	4.55	41	5918	0.130	ng	# 56
12) Acrolein	4.65	56	2239	0.154	ng	100
13) Acetone	4.74	58	297715	19.877	ng	98
14) Trichlorofluoromethane	4.86	101	28441	0.698	ng	96
15) 2-Propanol (Isopropanol)	4.98	45	220117	3.640	ng	99
19) Methylene Chloride	5.44	84	52877	2.408	ng	95
21) Trichlorotrifluoroethane	5.68	151	5978	0.279	ng	90
22) Carbon Disulfide	5.71	76	13414	0.154	ng	97
26) Vinyl Acetate	6.53	86	1816	0.448	ng	# 1
27) 2-Butanone (MEK)	6.76	72	12853	0.967	ng	98
28) cis-1,2-Dichloroethene	7.17	61	14241	0.451	ng	99
30) Ethyl Acetate	7.37	61	67429	7.712	ng	93
31) n-Hexane	7.38	57	38613	1.147	ng	98
32) Chloroform	7.45	83	53233	1.337	ng	98
34) Tetrahydrofuran (THF)	7.86	72	4160	0.305	ng	# 64
38) 1,1,1-Trichloroethane	8.48	97	3311	0.092	ng	94
41) Benzene	8.98	78	28505	0.335	ng	99
42) Carbon Tetrachloride	9.14	117	8545	0.268	ng	99
43) Cyclohexane	9.28	84	31261	1.003	ng	94
46) Bromodichloromethane	10.17	83	3517	0.112	ng	# 55
47) Trichloroethene	10.21	130	48037	1.929	ng	99
51) n-Heptane	10.63	71	39401	1.916	ng	98
53) 4-Methyl-2-pentanone	11.40	58	3924	0.214	ng	87
58) Toluene	12.61	91	994110	9.875	ng	99
62) n-Butyl Acetate	13.82	43	10470	0.188	ng	93
63) n-Octane	13.96	57	68288	3.450	ng	92
64) Tetrachloroethene	14.08	166	29674	0.969	ng	97
66) Ethylbenzene	15.44	91	195827	1.631	ng	98
67) m- & p-Xylenes	15.66	91	446194	4.616	ng	98
69) Styrene	16.14	104	16802	0.253	ng	95
70) o-Xylene	16.27	91	115028	1.245	ng	99
71) n-Nonane	16.64	43	163386	3.653	ng	97
74) Cumene	17.06	105	7987	0.071	ng	96
75) alpha-Pinene	17.56	93	10855	0.209	ng	91
76) n-Propylbenzene	17.75	91	14580	0.108	ng	99
78) 4-Ethyltoluene	17.95	105	13283	0.123	ng	100
79) 1,3,5-Trimethylbenzene	18.07	105	13054	0.137	ng	95
82) 1,2,4-Trimethylbenzene	18.60	105	38993	0.415	ng	88
86) 1,4-Dichlorobenzene	18.86	146	4445	0.075	ng	99
90) 1,2-Dichlorobenzene	19.30	146	4019	0.071	ng	94
91) d-Limonene	19.36	68	17892	0.563	ng	97
95) Naphthalene	21.55	128	15315	0.150	ng	93

Data File : I:\MS13\DATA\2023_03\24\03242322.D Vial: 6
Acq On : 24 Mar 2023 19:11 Operator: TZ
Sample : P2301250-017 (1000mL) Inst : MS13
Misc : S35-01202301

Quant Time: Mar 27 13:28:29 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M

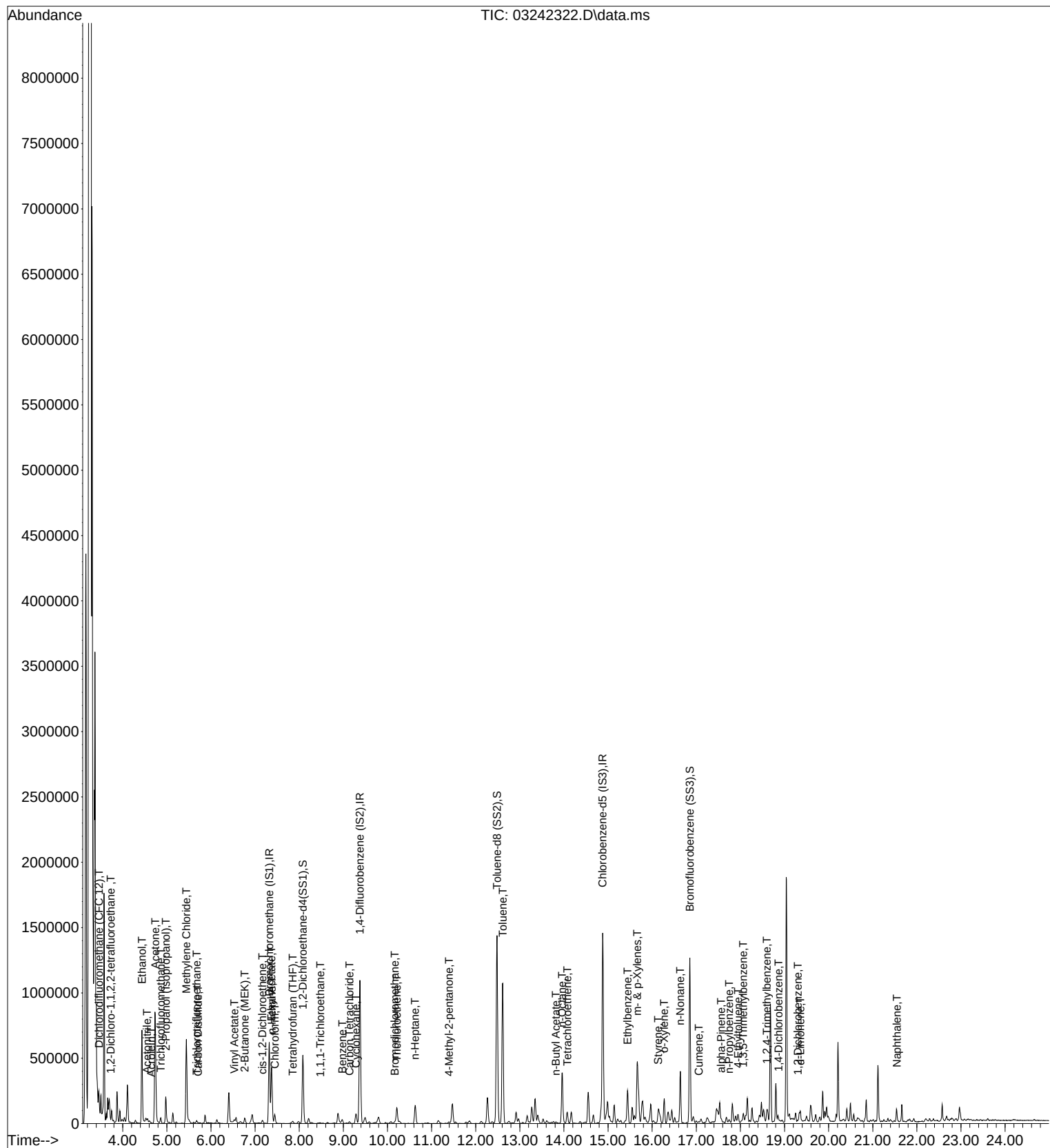
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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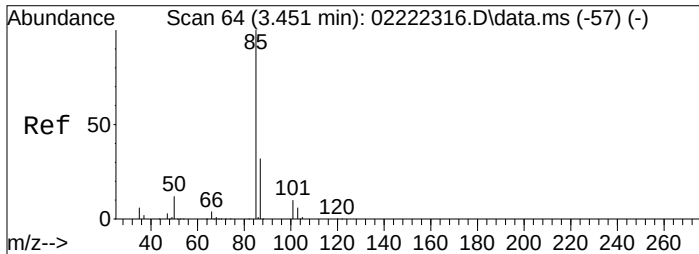
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS13\DATA\2023_03\24\03242322.D
Acq On : 24 Mar 2023 19:11
Sample : P2301250-017 (1000mL)
Misc : S35-01202301

Vial: 6
Operator: TZ
Inst : MS13

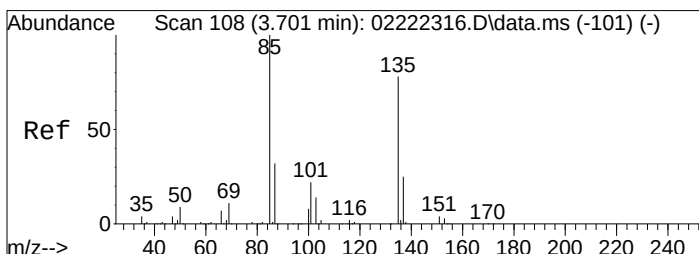
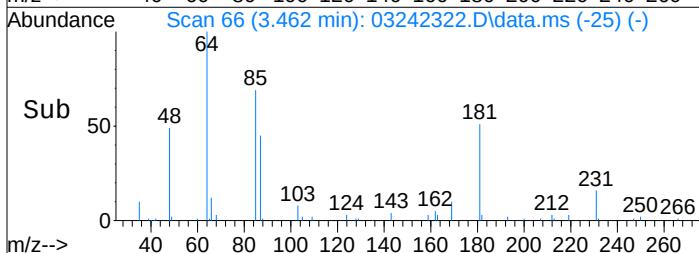
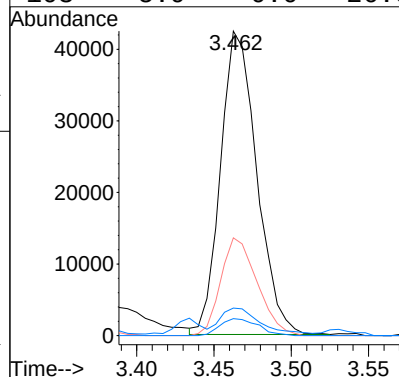
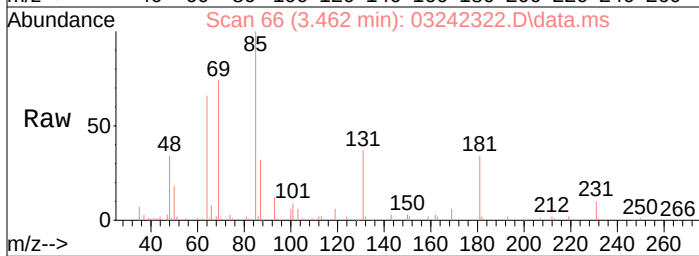
Quant Time: Mar 27 13:28:29 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M





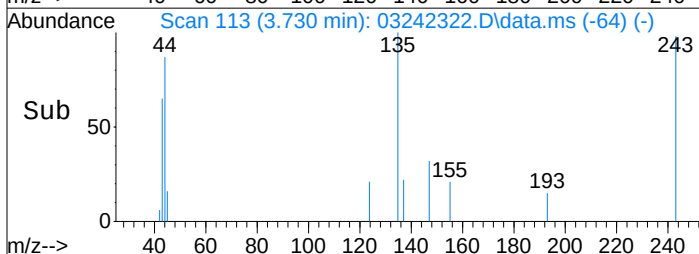
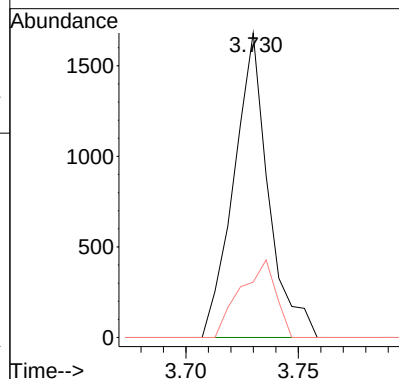
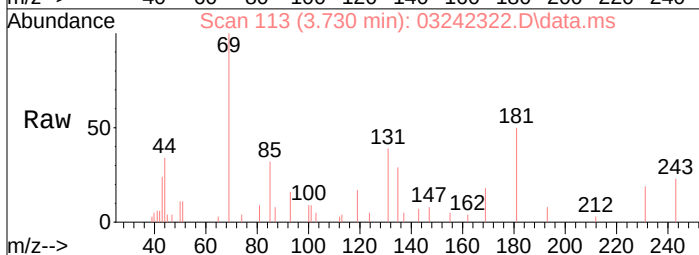
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.53 ng
 RT: 3.46 min Scan# 66
 Delta R.T. -0.016 min
 Lab File: 03242322.D
 Acq: 24 Mar 2023 19:11

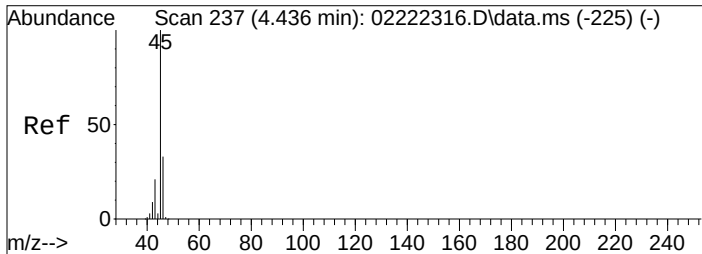
Tgt Ion:	85	Resp:	69101
Ion Ratio	Lower	Upper	
85	100		
87	32.4	12.4	52.4
101	8.6	0.0	29.4
103	5.9	0.0	26.0



#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.08 ng
 RT: 3.73 min Scan# 113
 Delta R.T. 0.029 min
 Lab File: 03242322.D
 Acq: 24 Mar 2023 19:11

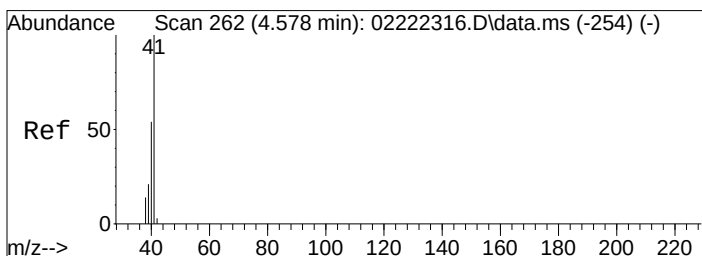
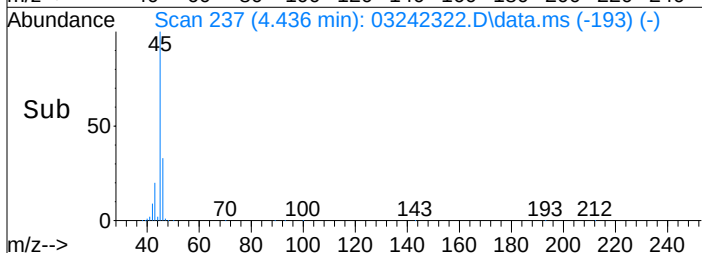
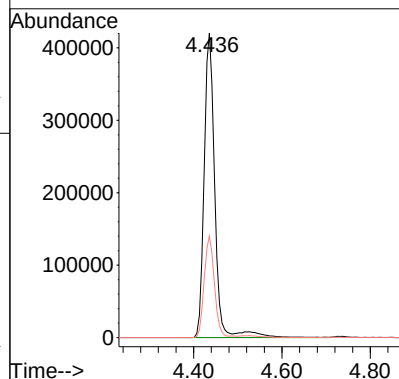
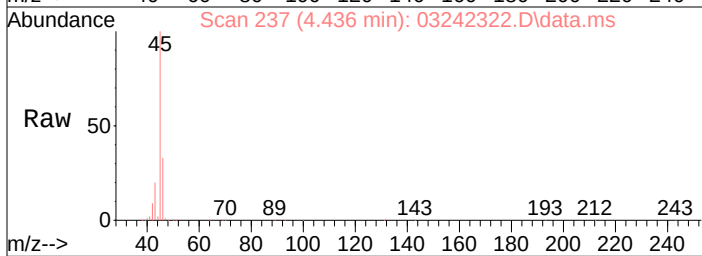
Tgt Ion:	135	Resp:	1804
Ion Ratio	Lower	Upper	
135	100		
137	26.1	12.2	52.2





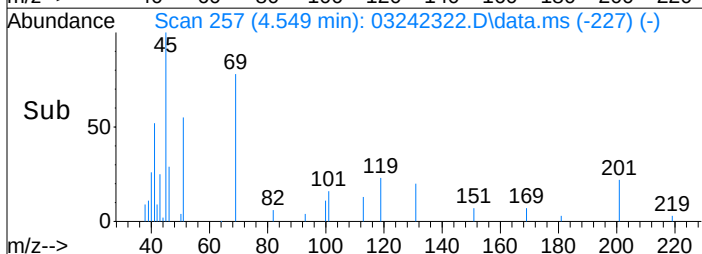
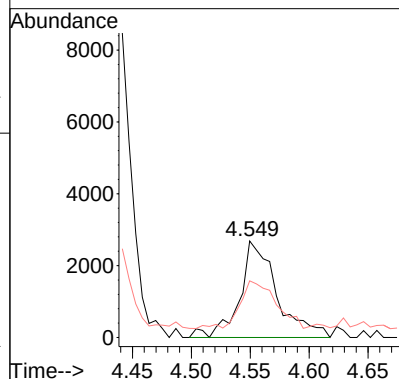
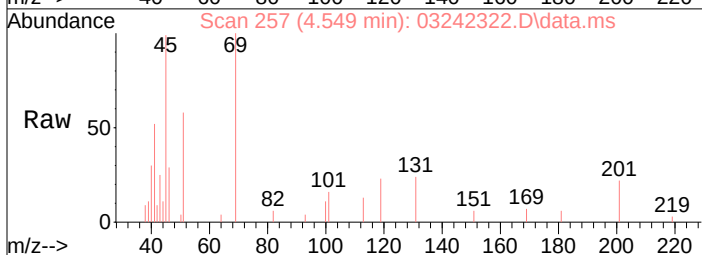
#10
Ethanol
Concen: 40.28 ng
RT: 4.44 min Scan# 237
Delta R.T. 0.000 min
Lab File: 03242322.D
Acq: 24 Mar 2023 19:11

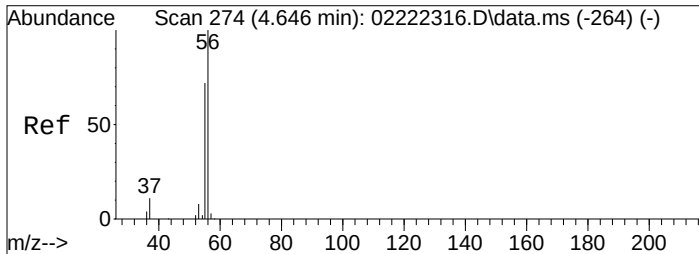
Tgt Ion: 45 Resp: 706877
Ion Ratio Lower Upper
45 100
46 33.4 13.8 53.8



#11
Acetonitrile
Concen: 0.13 ng
RT: 4.55 min Scan# 257
Delta R.T. -0.028 min
Lab File: 03242322.D
Acq: 24 Mar 2023 19:11

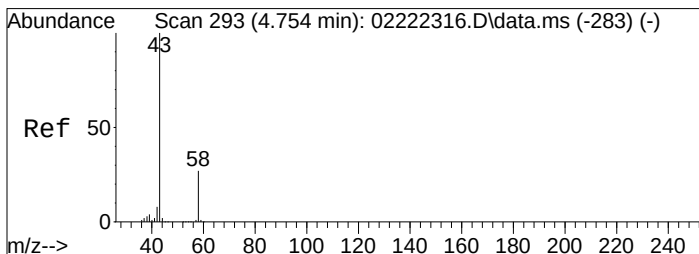
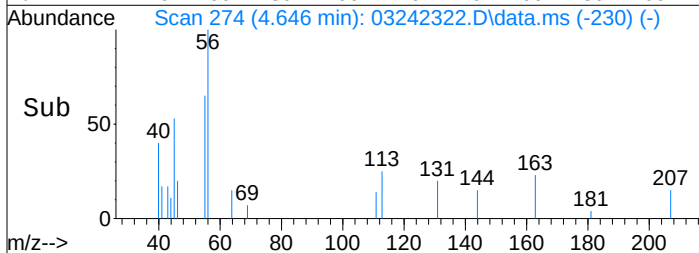
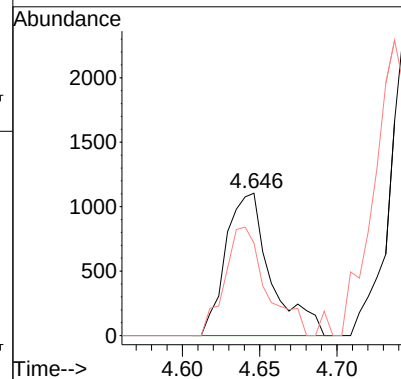
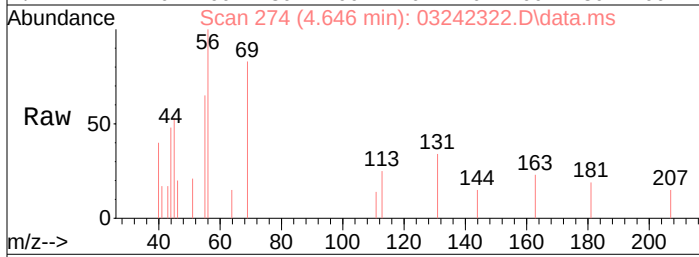
Tgt Ion: 41 Resp: 5918
Ion Ratio Lower Upper
41 100
40 86.1 34.4 74.4#





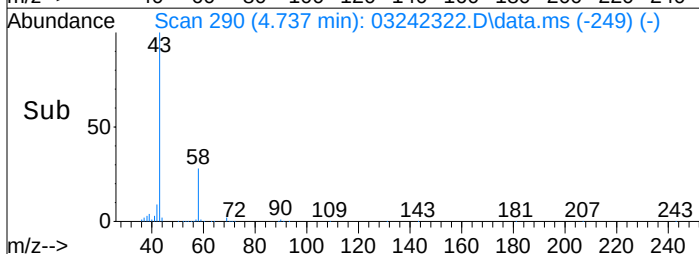
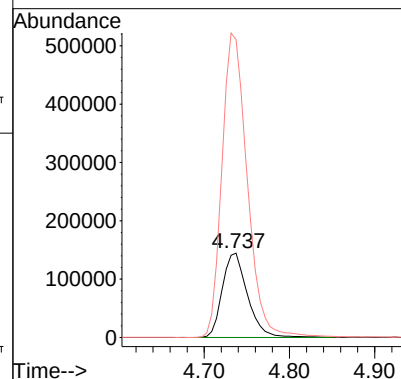
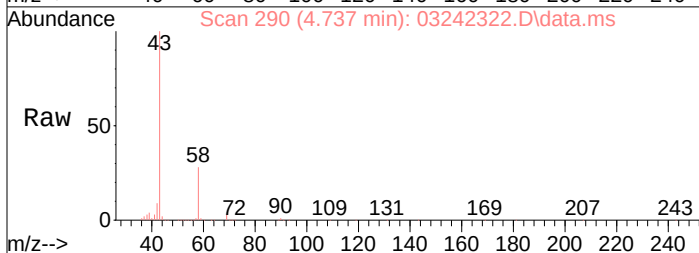
#12
Acrolein
Concen: 0.15 ng
RT: 4.65 min Scan# 274
Delta R.T. 0.000 min
Lab File: 03242322.D
Acq: 24 Mar 2023 19:11

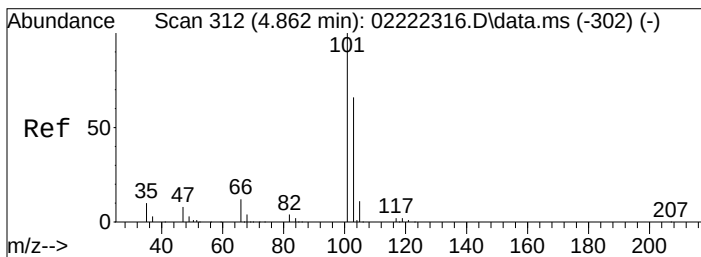
Tgt Ion: 56 Resp: 2239
Ion Ratio Lower Upper
56 100
55 70.6 50.9 90.9



#13
Acetone
Concen: 19.88 ng
RT: 4.74 min Scan# 290
Delta R.T. -0.017 min
Lab File: 03242322.D
Acq: 24 Mar 2023 19:11

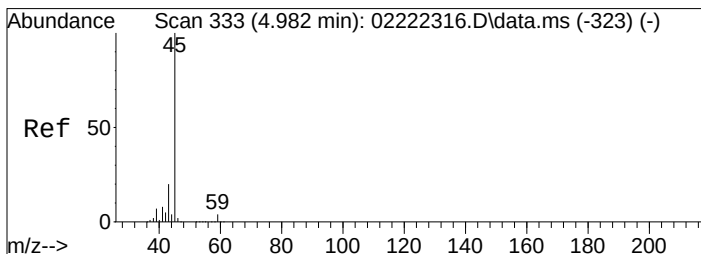
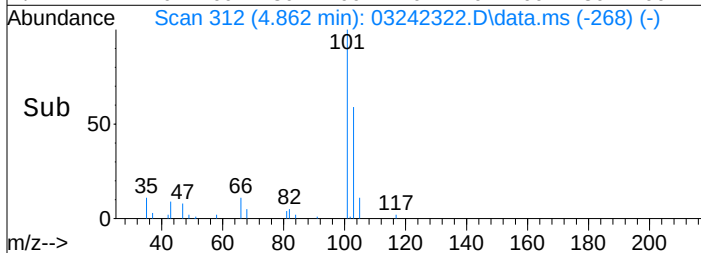
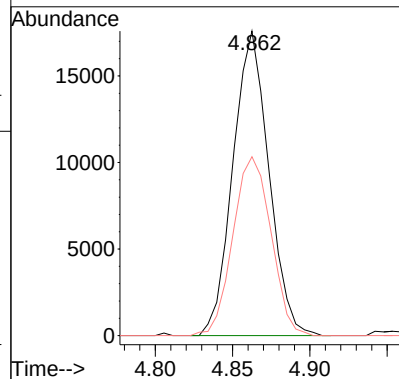
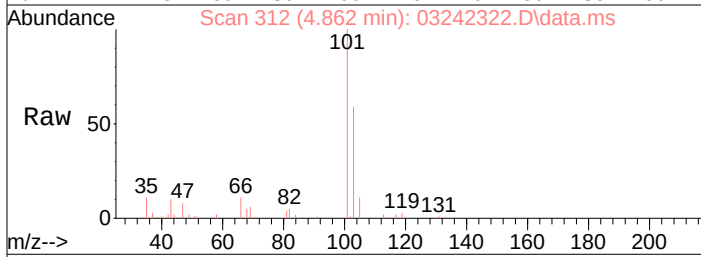
Tgt Ion: 58 Resp: 297715
Ion Ratio Lower Upper
58 100
43 363.9 337.8 397.8





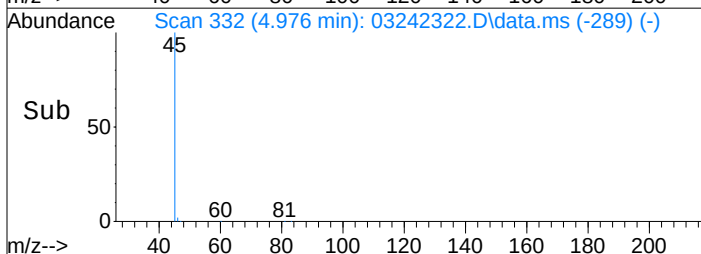
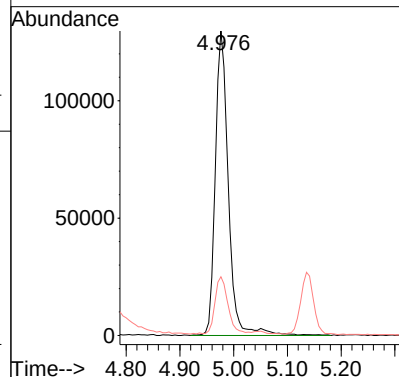
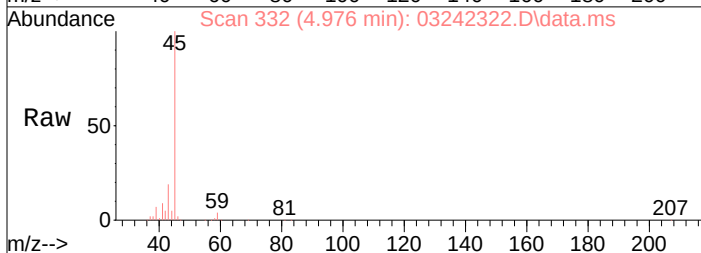
#14
 Trichlorofluoromethane
 Concen: 0.70 ng
 RT: 4.86 min Scan# 312
 Delta R.T. 0.000 min
 Lab File: 03242322.D
 Acq: 24 Mar 2023 19:11

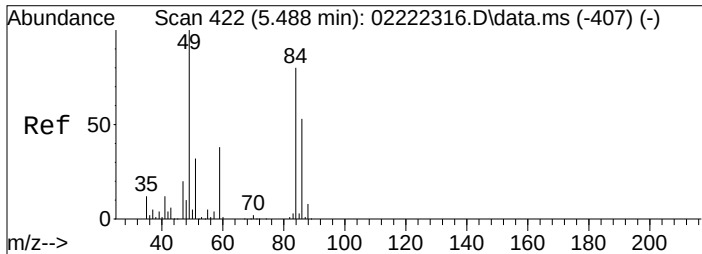
Tgt Ion: 101 Resp: 28441
 Ion Ratio Lower Upper
 101 100
 103 62.2 45.2 85.2



#15
 2-Propanol (Isopropanol)
 Concen: 3.64 ng
 RT: 4.98 min Scan# 332
 Delta R.T. -0.006 min
 Lab File: 03242322.D
 Acq: 24 Mar 2023 19:11

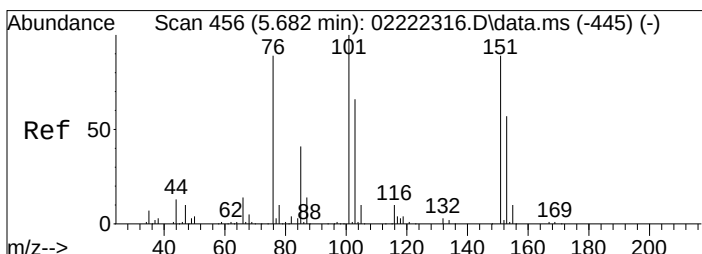
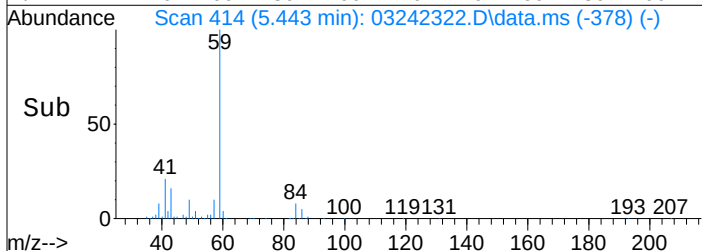
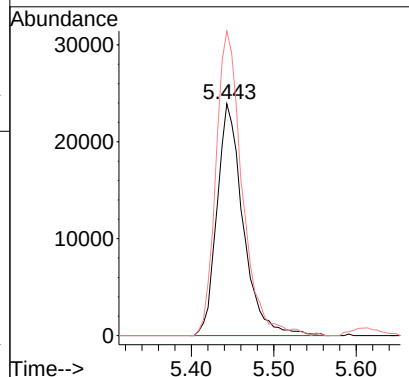
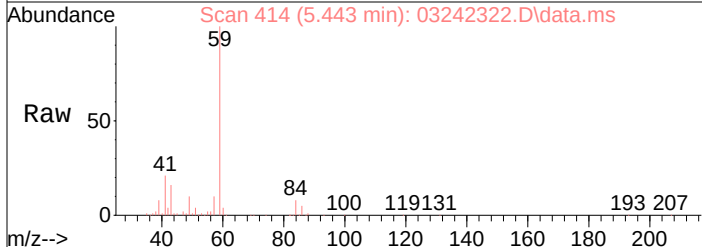
Tgt Ion: 45 Resp: 220117
 Ion Ratio Lower Upper
 45 100
 43 20.3 0.0 39.7





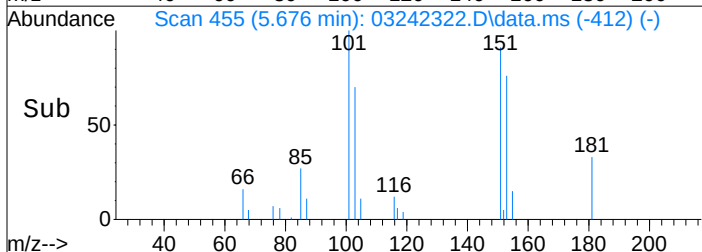
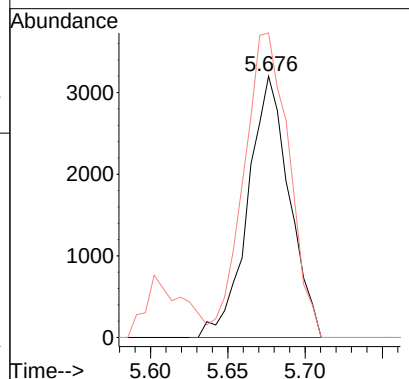
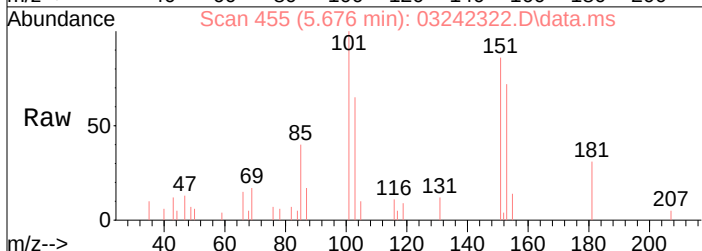
#19
Methylene Chloride
Concen: 2.41 ng
RT: 5.44 min Scan# 414
Delta R.T. -0.045 min
Lab File: 03242322.D
Acq: 24 Mar 2023 19:11

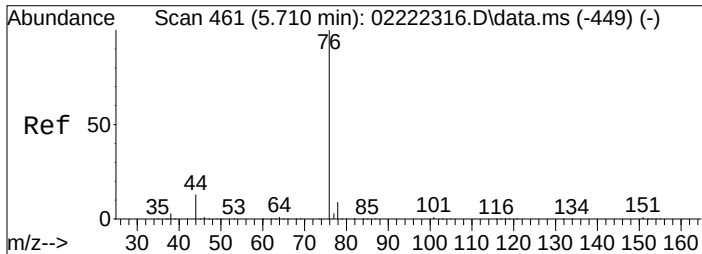
Tgt Ion: 84 Resp: 52877
Ion Ratio Lower Upper
84 100
49 131.8 101.3 151.3



#21
Trichlorotrifluoroethane
Concen: 0.28 ng
RT: 5.68 min Scan# 455
Delta R.T. -0.006 min
Lab File: 03242322.D
Acq: 24 Mar 2023 19:11

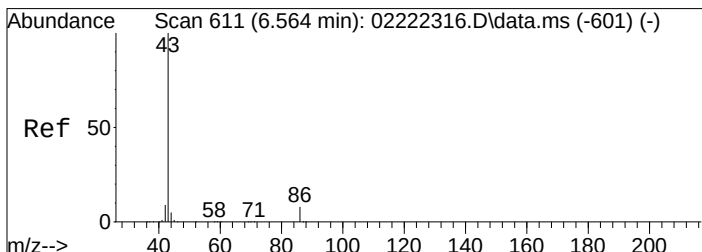
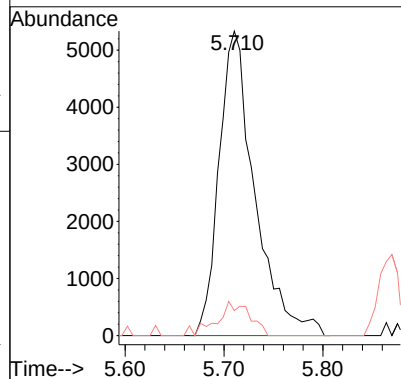
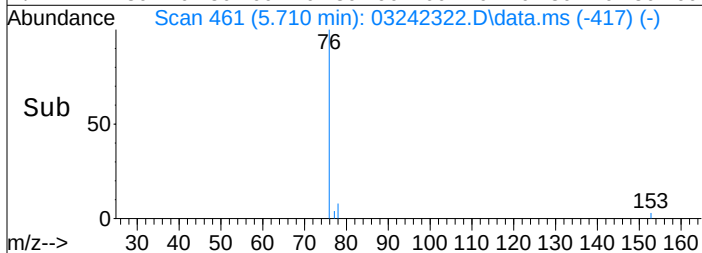
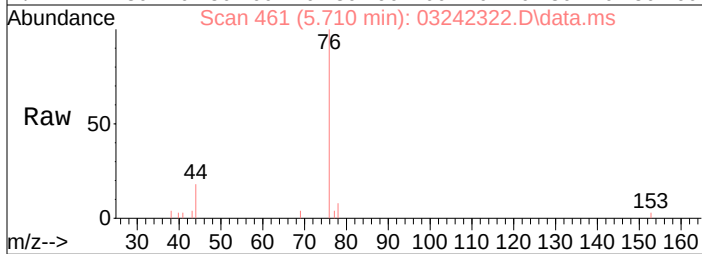
Tgt Ion: 151 Resp: 5978
Ion Ratio Lower Upper
151 100
101 126.8 96.3 136.3





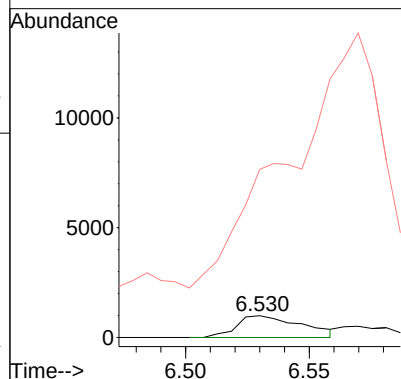
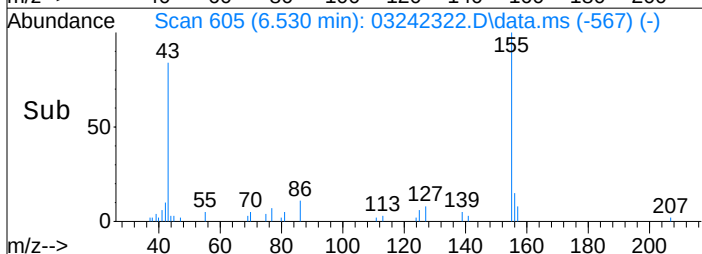
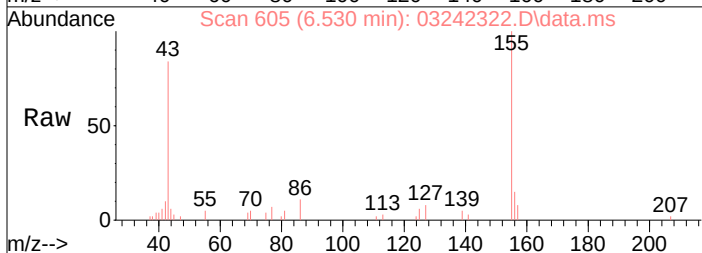
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Carbon Disulfide
Concen: 0.15 ng
RT: 5.71 min Scan# 461
Delta R.T. 0.000 min
Lab File: 03242322.D
Acq: 24 Mar 2023 19:11

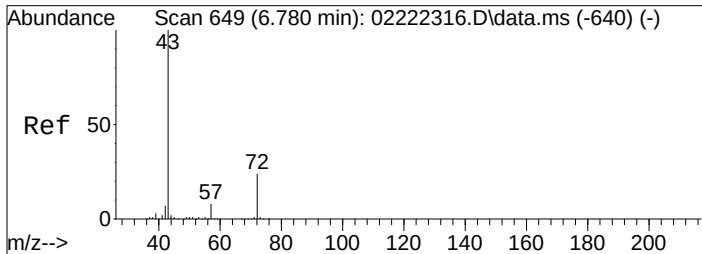
Tgt Ion: 76 Resp: 13414
Ion Ratio Lower Upper
76 100
78 10.3 0.0 29.3



#26
Vinyl Acetate
Concen: 0.45 ng
RT: 6.53 min Scan# 605
Delta R.T. -0.034 min
Lab File: 03242322.D
Acq: 24 Mar 2023 19:11

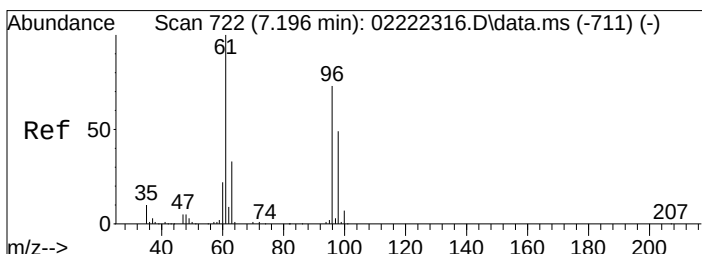
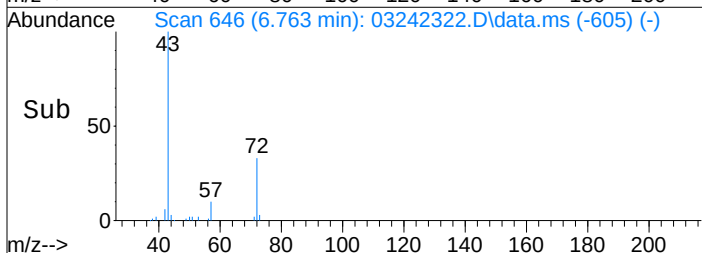
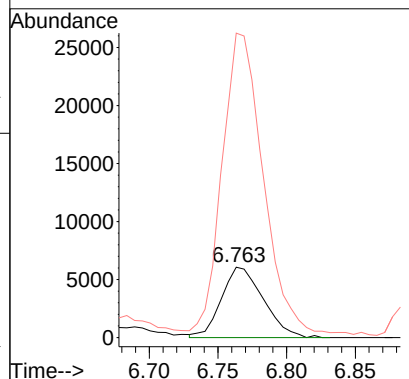
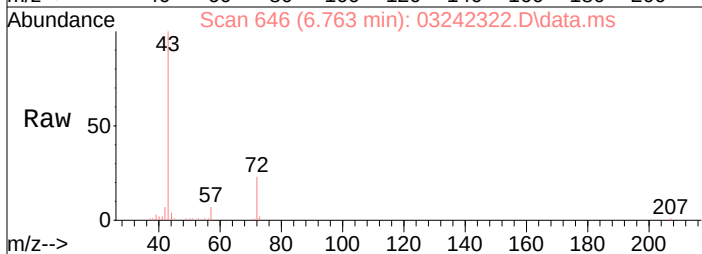
Tgt Ion: 86 Resp: 1816
Ion Ratio Lower Upper
86 100
43 2312.4 1292.1 1332.1#





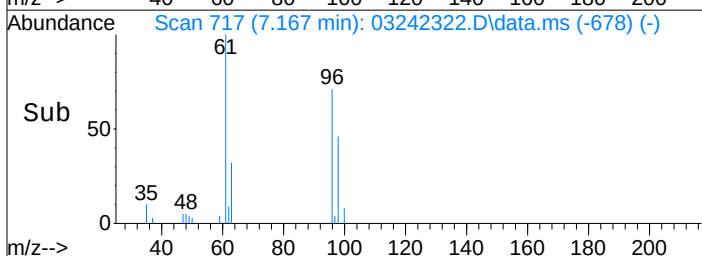
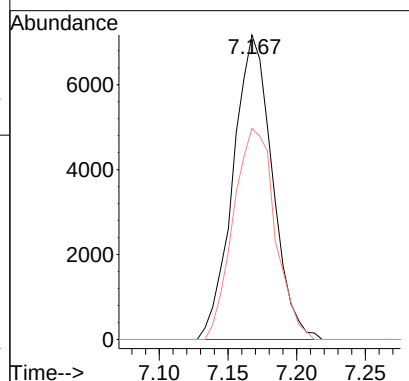
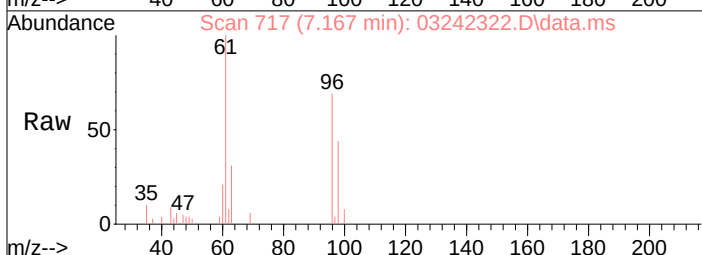
#27
 2-Butanone (MEK)
 Concen: 0.97 ng
 RT: 6.76 min Scan# 646
 Delta R.T. -0.017 min
 Lab File: 03242322.D
 Acq: 24 Mar 2023 19:11

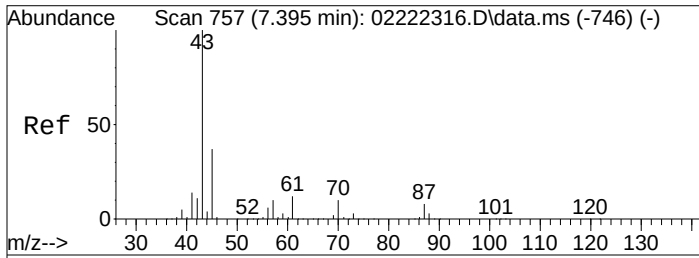
Tgt Ion: 72 Resp: 12853
 Ion Ratio Lower Upper
 72 100
 43 424.5 400.5 440.5



#28
 cis-1,2-Dichloroethene
 Concen: 0.45 ng
 RT: 7.17 min Scan# 717
 Delta R.T. -0.028 min
 Lab File: 03242322.D
 Acq: 24 Mar 2023 19:11

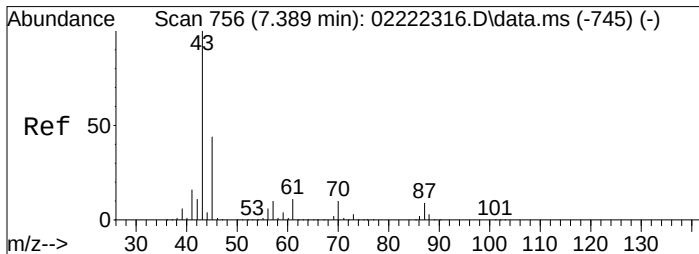
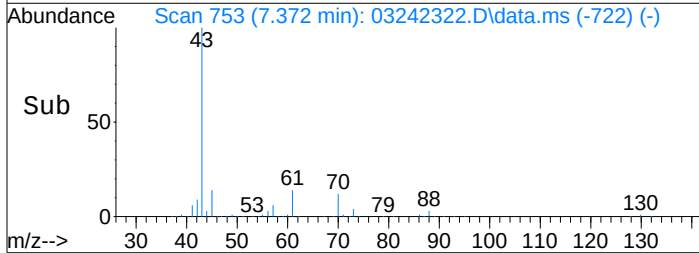
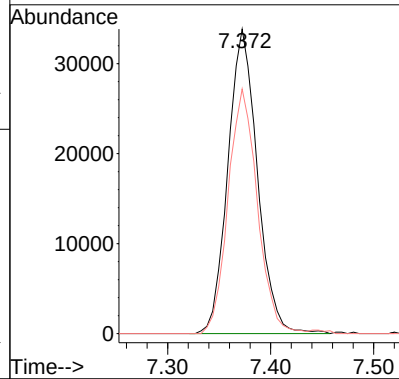
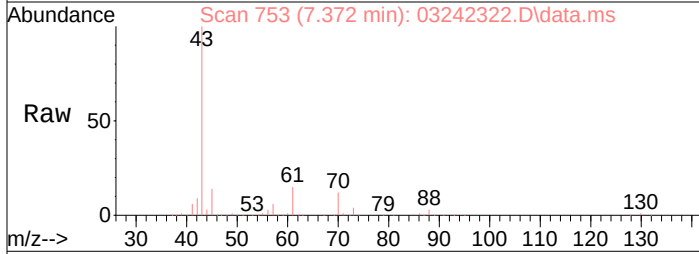
Tgt Ion: 61 Resp: 14241
 Ion Ratio Lower Upper
 61 100
 96 73.9 54.5 94.5





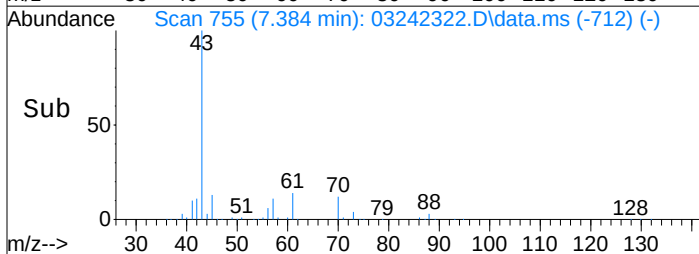
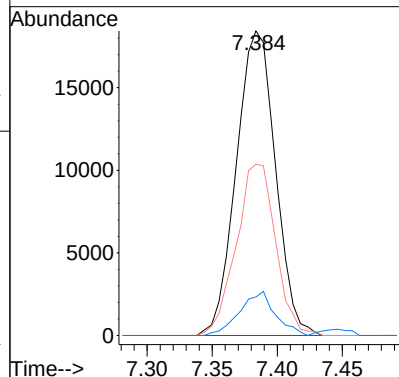
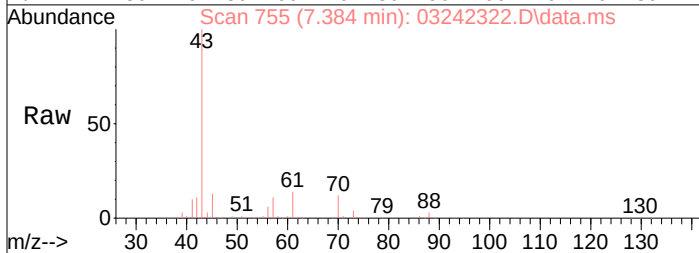
#30
Ethyl Acetate
Concen: 7.71 ng
RT: 7.37 min Scan# 753
Delta R.T. -0.023 min
Lab File: 03242322.D
Acq: 24 Mar 2023 19:11

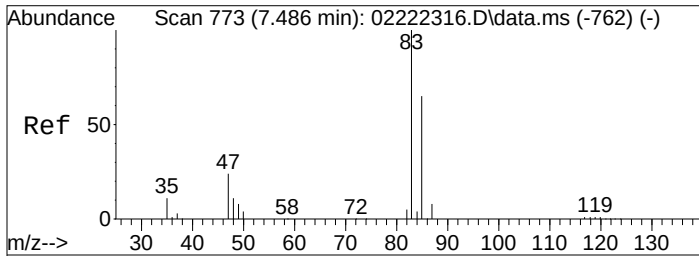
Tgt Ion: 61 Resp: 67429
Ion Ratio Lower Upper
61 100
70 79.6 65.6 105.6



#31
n-Hexane
Concen: 1.15 ng
RT: 7.38 min Scan# 755
Delta R.T. -0.006 min
Lab File: 03242322.D
Acq: 24 Mar 2023 19:11

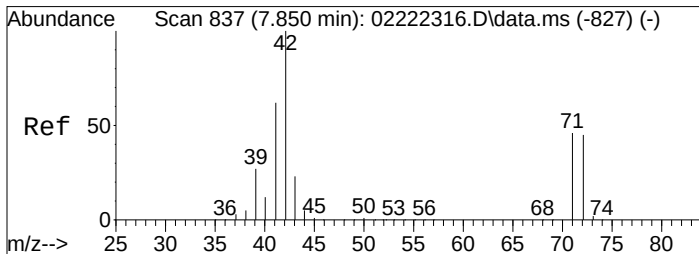
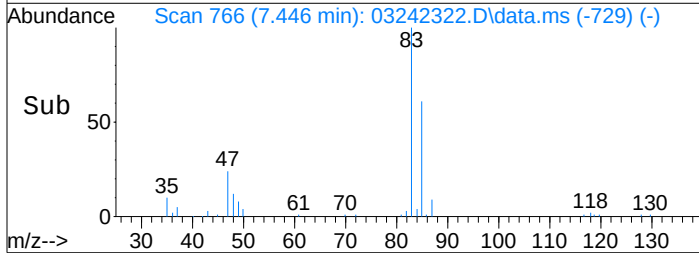
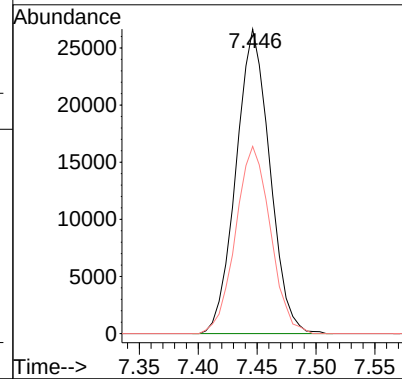
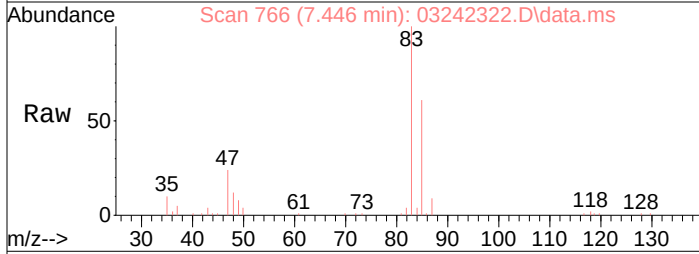
Tgt Ion: 57 Resp: 38613
Ion Ratio Lower Upper
57 100
56 56.6 44.0 66.0
86 13.1 11.5 17.3





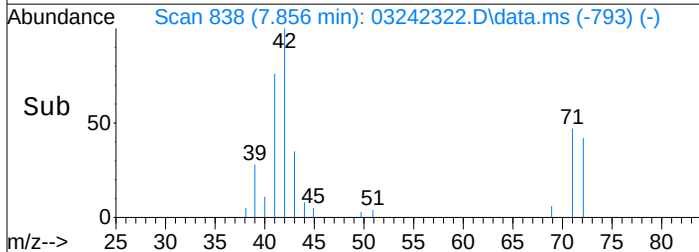
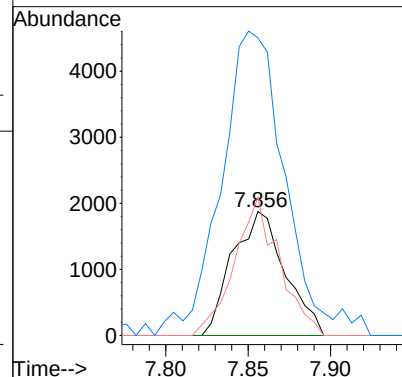
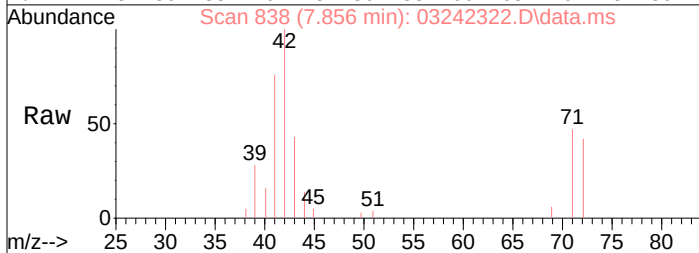
#32
Chloroform
Concen: 1.34 ng
RT: 7.45 min Scan# 766
Delta R.T. -0.040 min
Lab File: 03242322.D
Acq: 24 Mar 2023 19:11

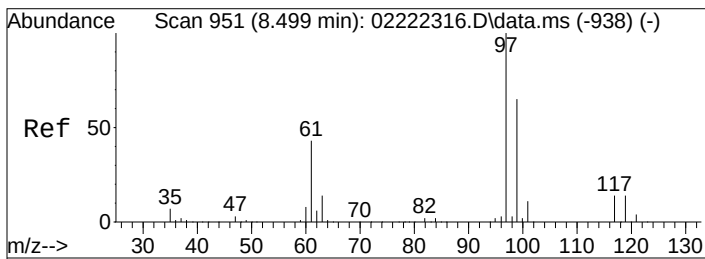
Tgt Ion: 83 Resp: 53233
Ion Ratio Lower Upper
83 100
85 63.4 45.0 85.0



#34
Tetrahydrofuran (THF)
Concen: 0.30 ng
RT: 7.86 min Scan# 838
Delta R.T. 0.006 min
Lab File: 03242322.D
Acq: 24 Mar 2023 19:11

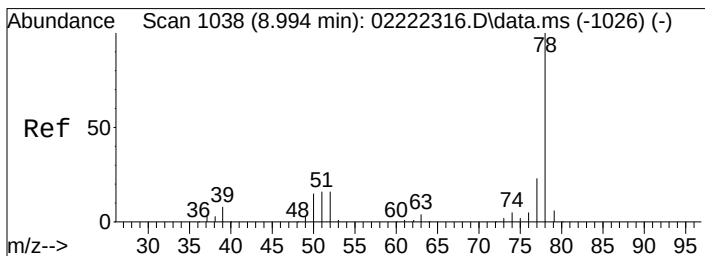
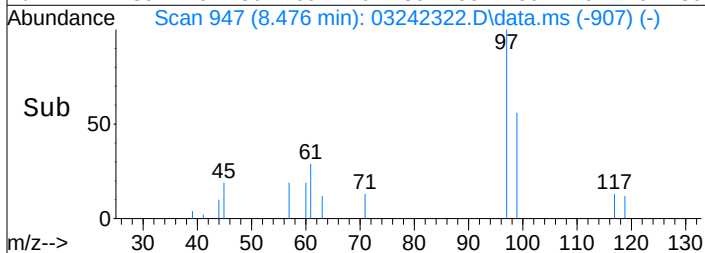
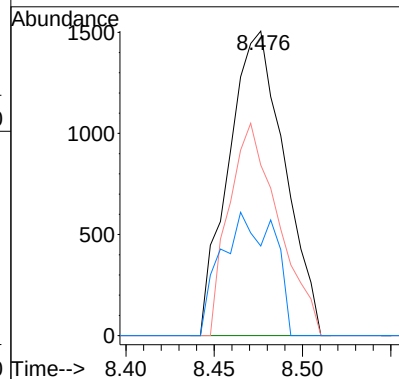
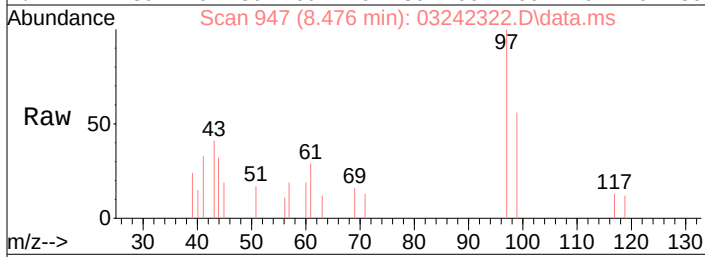
Tgt Ion: 72 Resp: 4160
Ion Ratio Lower Upper
72 100
71 95.5 79.8 119.8
42 300.8 199.0 239.0#





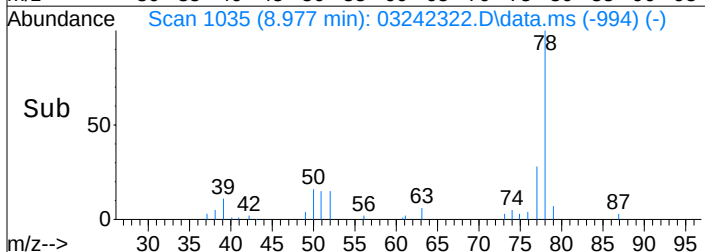
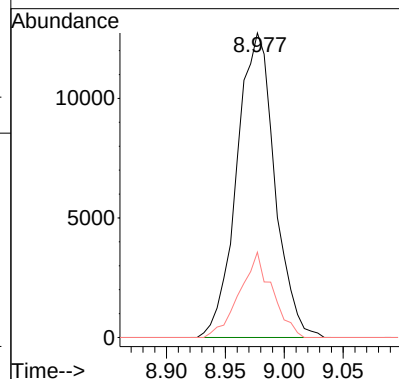
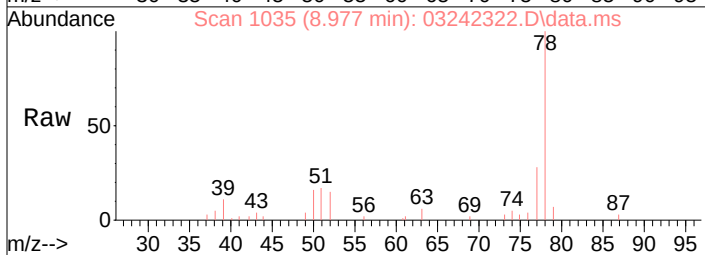
#38
 1,1,1-Trichloroethane
 Concen: 0.09 ng
 RT: 8.48 min Scan# 947
 Delta R.T. -0.023 min
 Lab File: 03242322.D
 Acq: 24 Mar 2023 19:11

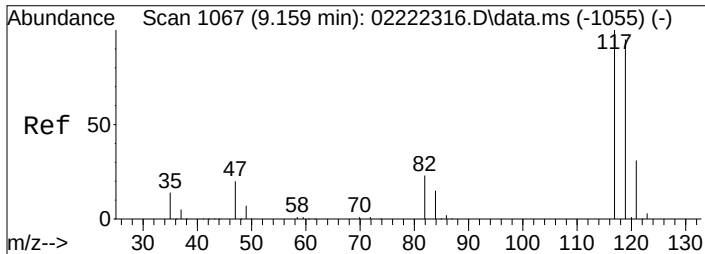
Tgt Ion: 97 Resp: 3311
 Ion Ratio Lower Upper
 97 100
 99 61.8 44.9 84.9
 61 38.1 23.5 63.5



#41
 Benzene
 Concen: 0.34 ng
 RT: 8.98 min Scan# 1035
 Delta R.T. -0.017 min
 Lab File: 03242322.D
 Acq: 24 Mar 2023 19:11

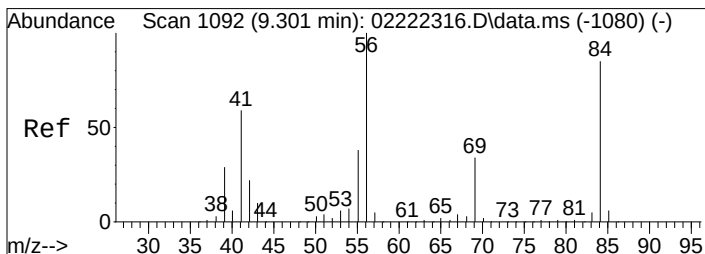
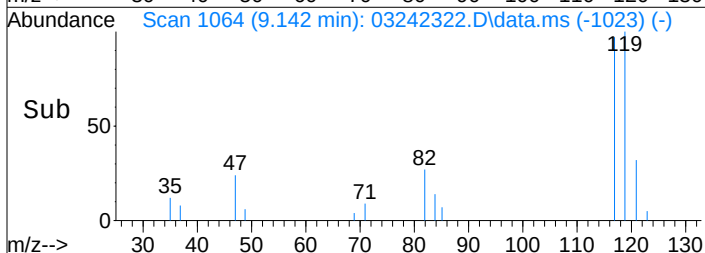
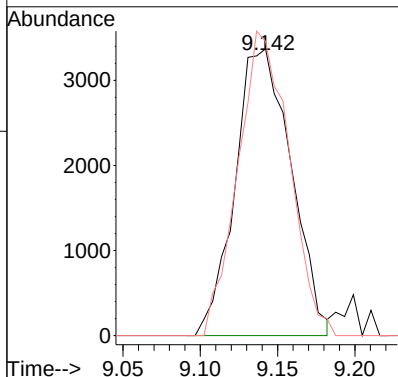
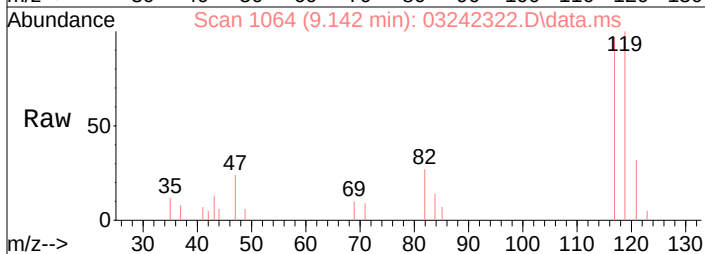
Tgt Ion: 78 Resp: 28505
 Ion Ratio Lower Upper
 78 100
 77 24.2 3.7 43.7





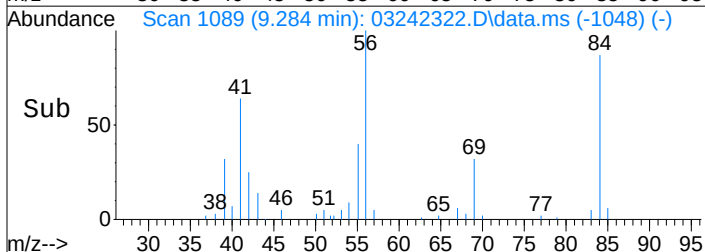
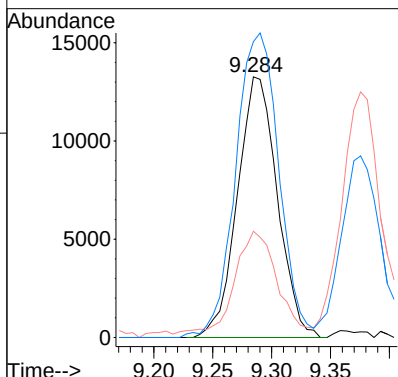
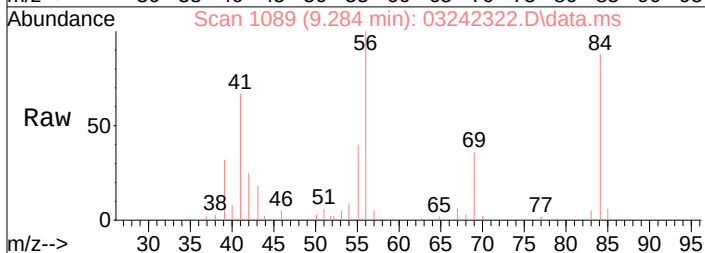
#42
Carbon Tetrachloride
Concen: 0.27 ng
RT: 9.14 min Scan# 1064
Delta R.T. -0.017 min
Lab File: 03242322.D
Acq: 24 Mar 2023 19:11

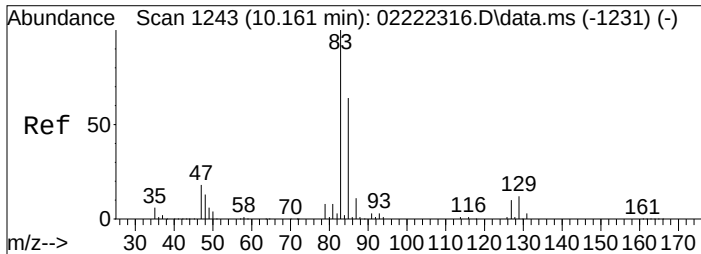
Tgt Ion: 117 Resp: 8545
Ion Ratio Lower Upper
117 100
119 97.0 75.7 115.7



#43
Cyclohexane
Concen: 1.00 ng
RT: 9.28 min Scan# 1089
Delta R.T. -0.017 min
Lab File: 03242322.D
Acq: 24 Mar 2023 19:11

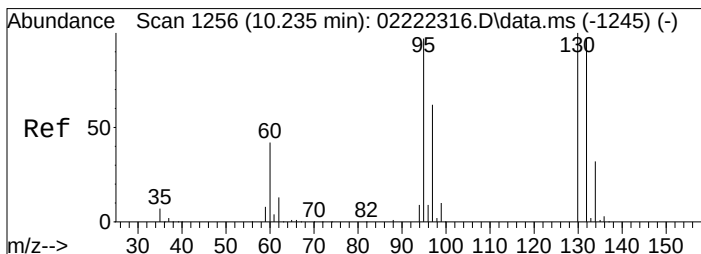
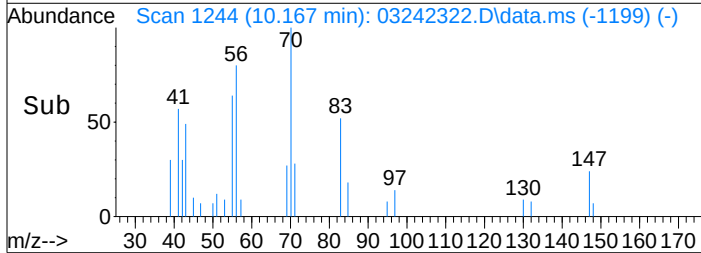
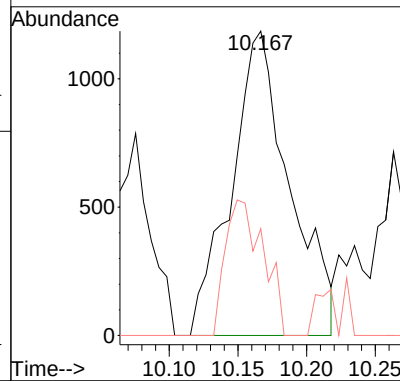
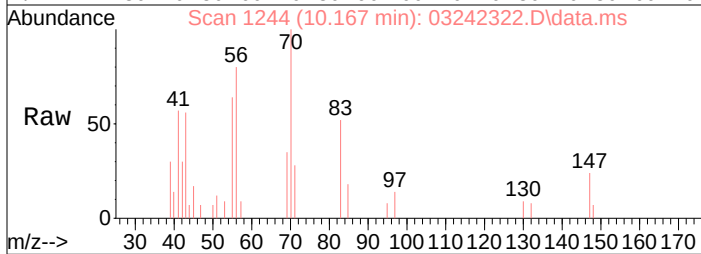
Tgt Ion: 84 Resp: 31261
Ion Ratio Lower Upper
84 100
69 41.6 20.0 60.0
56 126.5 98.5 138.5





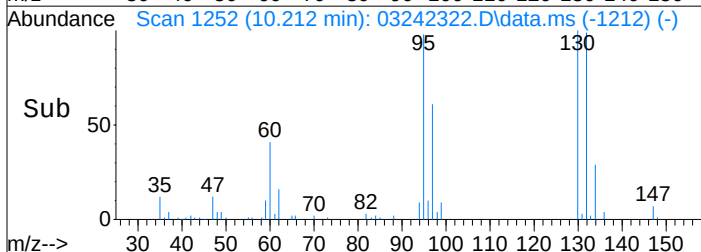
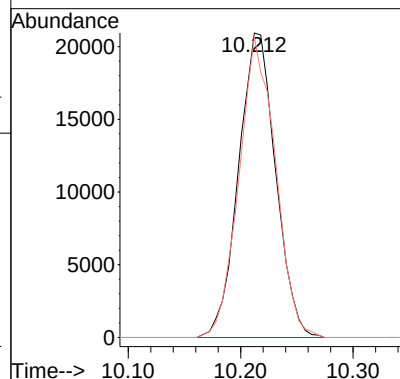
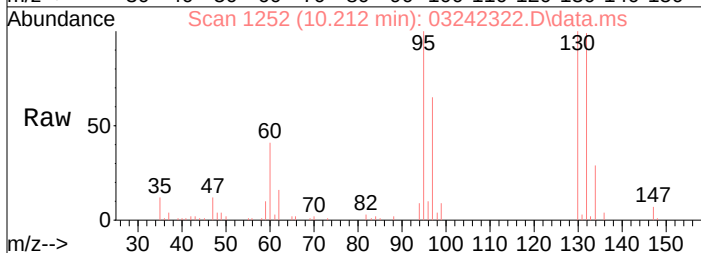
#46
 Bromodichloromethane
 Concen: 0.11 ng
 RT: 10.17 min Scan# 1244
 Delta R.T. 0.006 min
 Lab File: 03242322.D
 Acq: 24 Mar 2023 19:11

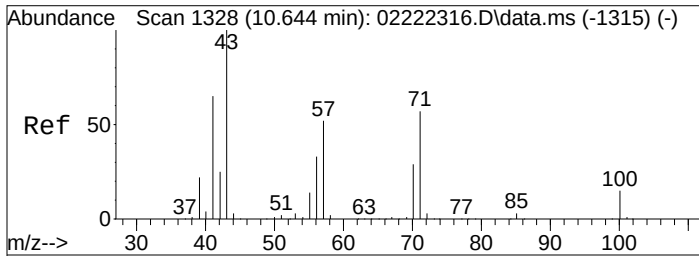
Tgt Ion: 83 Resp: 3517
 Ion Ratio Lower Upper
 83 100
 85 28.9 44.0 84.0#



#47
 Trichloroethene
 Concen: 1.93 ng
 RT: 10.21 min Scan# 1252
 Delta R.T. -0.023 min
 Lab File: 03242322.D
 Acq: 24 Mar 2023 19:11

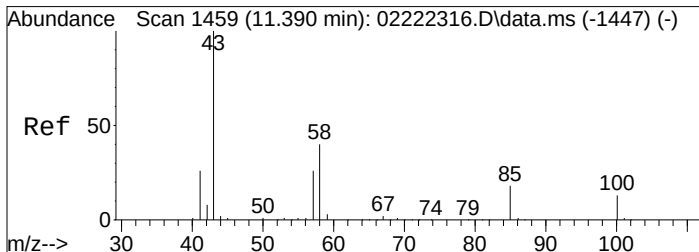
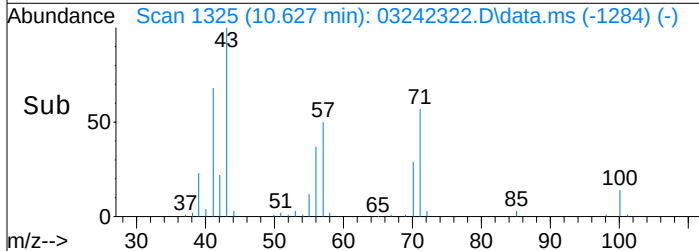
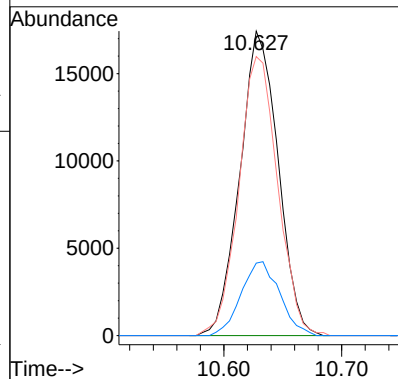
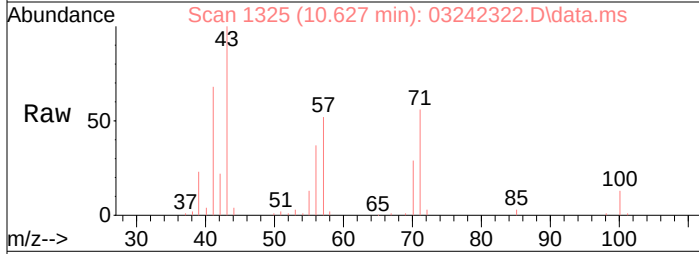
Tgt Ion: 130 Resp: 48037
 Ion Ratio Lower Upper
 130 100
 132 97.2 76.3 116.3





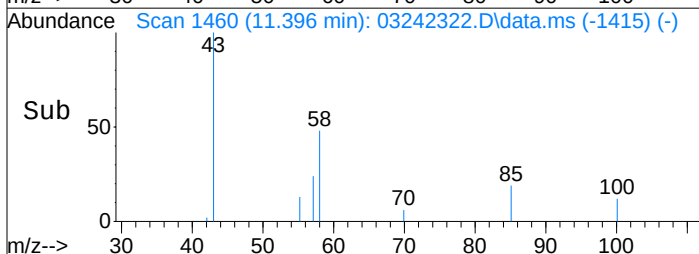
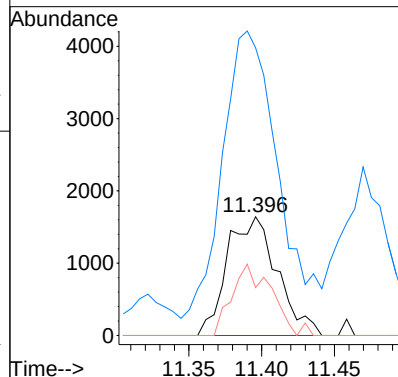
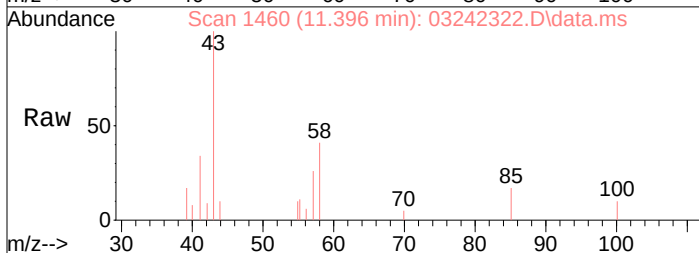
#51
n-Heptane
Concen: 1.92 ng
RT: 10.63 min Scan# 1325
Delta R.T. -0.017 min
Lab File: 03242322.D
Acq: 24 Mar 2023 19:11

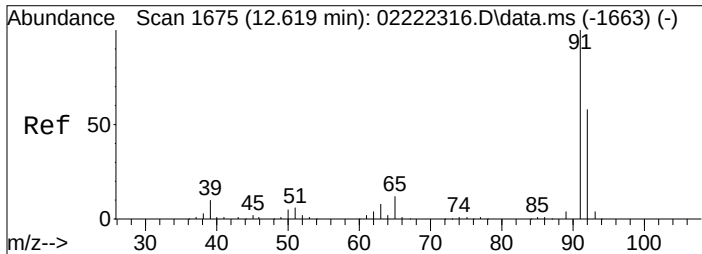
Tgt Ion: 71 Resp: 39401
Ion Ratio Lower Upper
71 100
57 93.0 71.7 111.7
100 24.5 5.8 45.8



#53
4-Methyl-2-pentanone
Concen: 0.21 ng
RT: 11.40 min Scan# 1460
Delta R.T. 0.006 min
Lab File: 03242322.D
Acq: 24 Mar 2023 19:11

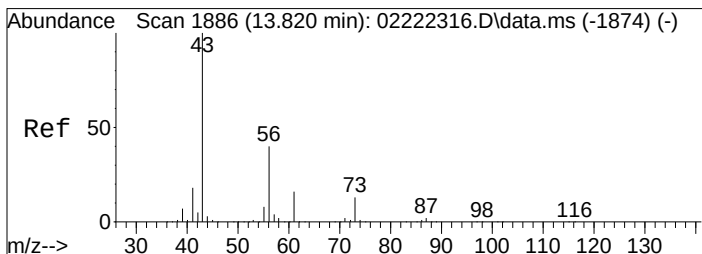
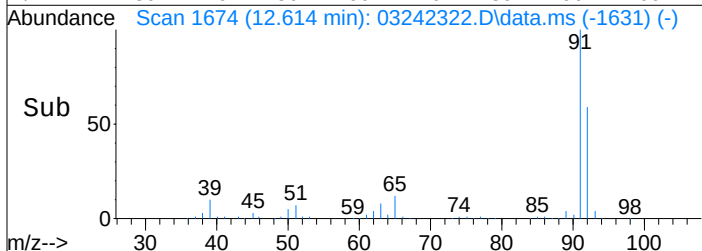
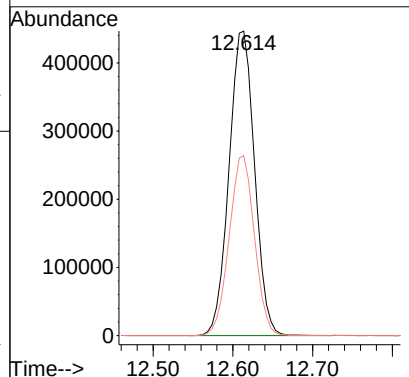
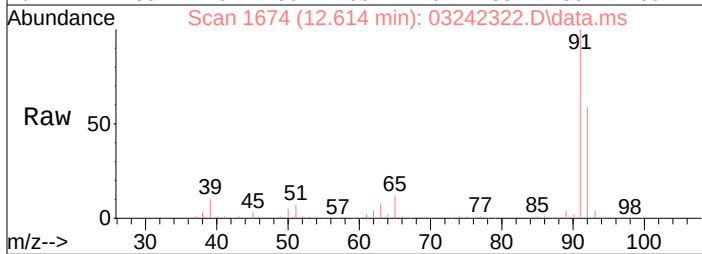
Tgt Ion: 58 Resp: 3924
Ion Ratio Lower Upper
58 100
85 47.8 38.6 58.0
43 279.9 202.2 303.2





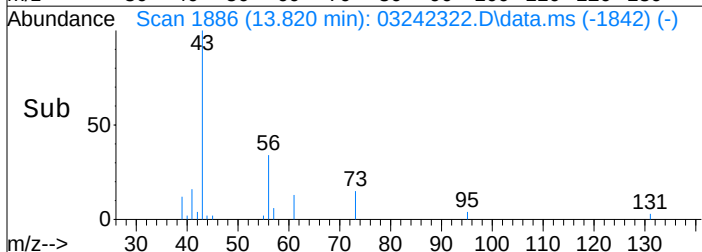
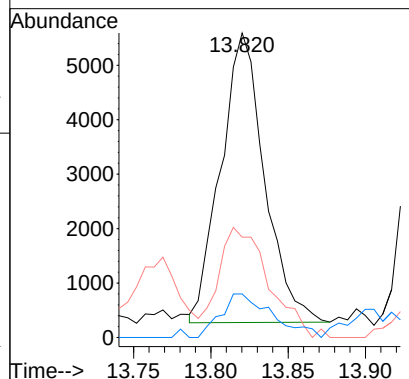
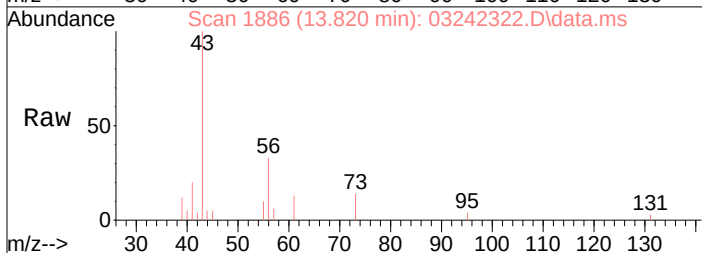
#58
Toluene
Concen: 9.88 ng
RT: 12.61 min Scan# 1674
Delta R.T. -0.006 min
Lab File: 03242322.D
Acq: 24 Mar 2023 19:11

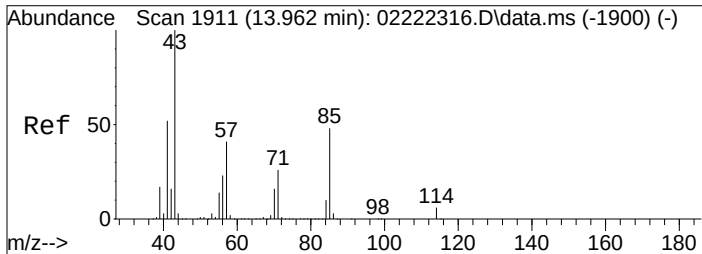
Tgt Ion: 91 Resp: 994110
Ion Ratio Lower Upper
91 100
92 58.5 38.0 78.0



#62
n-Butyl Acetate
Concen: 0.19 ng
RT: 13.82 min Scan# 1886
Delta R.T. 0.000 min
Lab File: 03242322.D
Acq: 24 Mar 2023 19:11

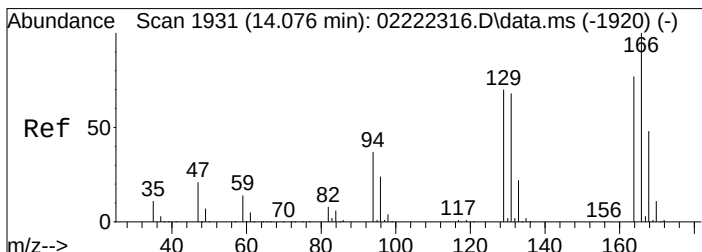
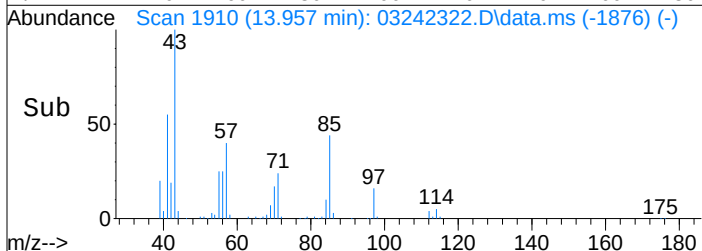
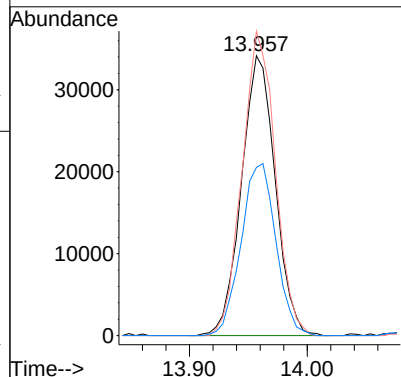
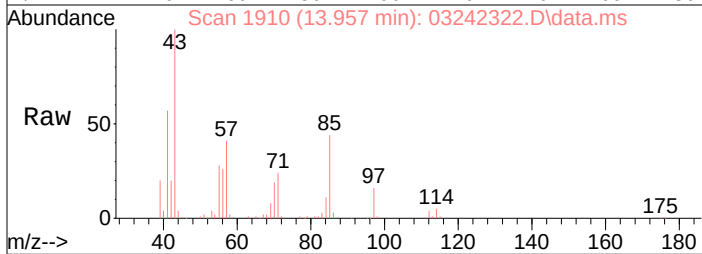
Tgt Ion: 43 Resp: 10470
Ion Ratio Lower Upper
43 100
56 43.8 20.0 60.0
73 17.6 0.0 33.2





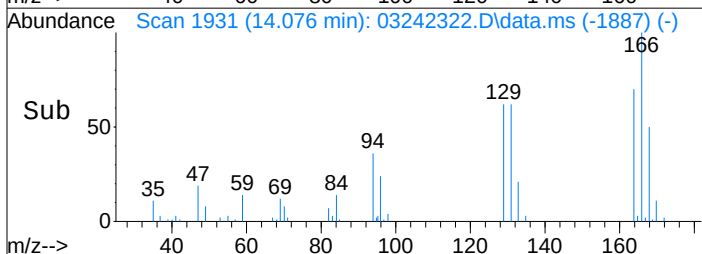
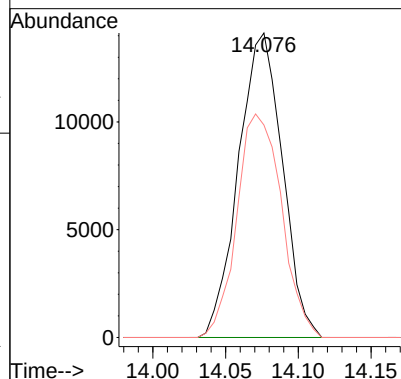
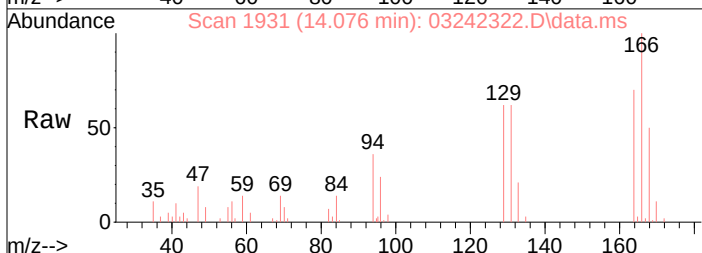
#63
n-Octane
Concen: 3.45 ng
RT: 13.96 min Scan# 1910
Delta R.T. -0.006 min
Lab File: 03242322.D
Acq: 24 Mar 2023 19:11

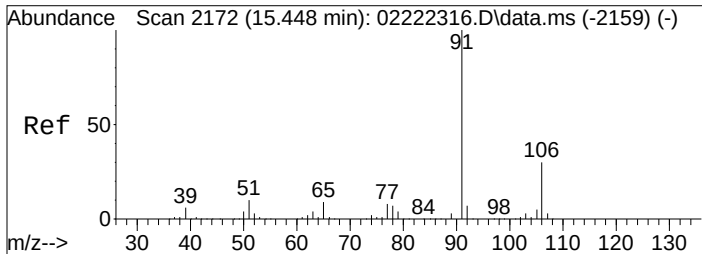
Tgt Ion:	57	Resp:	68288
Ion Ratio		Lower	Upper
57	100		
85	106.3	94.1	141.1
71	63.2	52.6	79.0



#64
Tetrachloroethene
Concen: 0.97 ng
RT: 14.08 min Scan# 1931
Delta R.T. 0.000 min
Lab File: 03242322.D
Acq: 24 Mar 2023 19:11

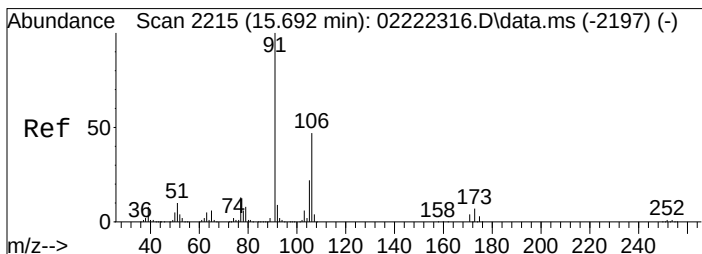
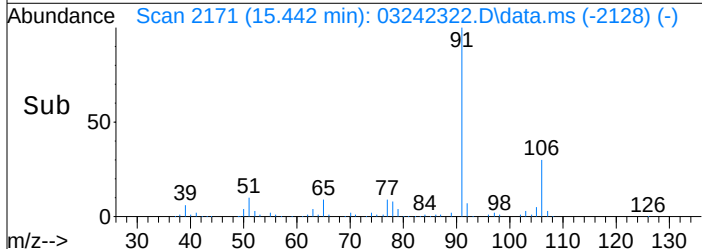
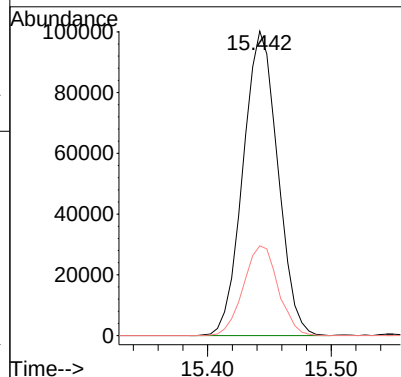
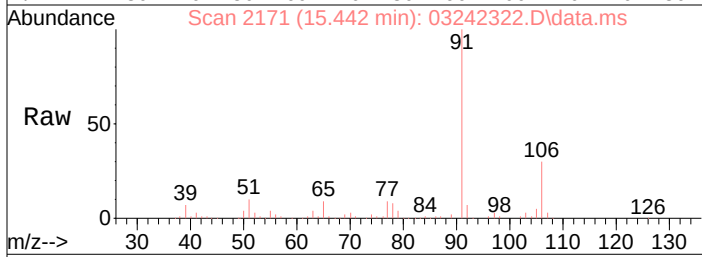
Tgt Ion:	166	Resp:	29674
Ion Ratio		Lower	Upper
166	100		
164	74.7	57.3	97.3





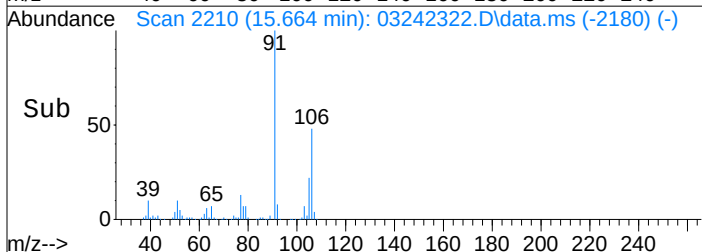
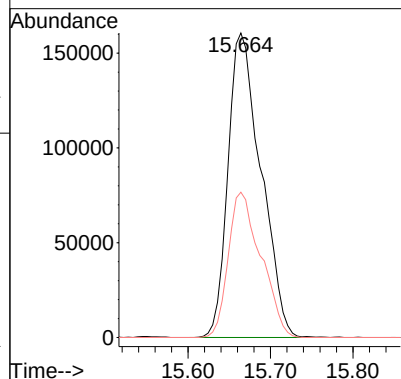
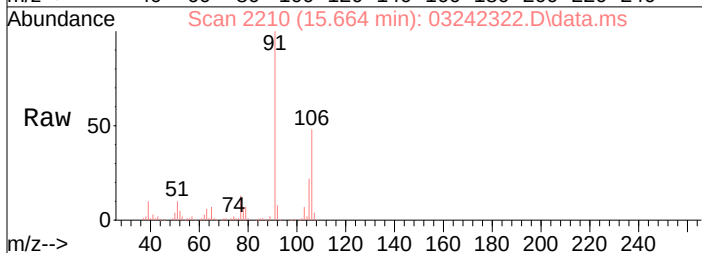
#66
Ethylbenzene
Concen: 1.63 ng
RT: 15.44 min Scan# 2171
Delta R.T. -0.006 min
Lab File: 03242322.D
Acq: 24 Mar 2023 19:11

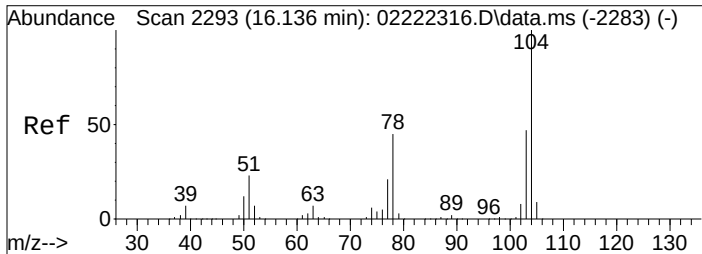
Tgt Ion	91	106	Resp	195827
Ion Ratio	100	29.5	Lower	Upper
		10.4		50.4



#67
m- & p-Xylenes
Concen: 4.62 ng
RT: 15.66 min Scan# 2210
Delta R.T. -0.028 min
Lab File: 03242322.D
Acq: 24 Mar 2023 19:11

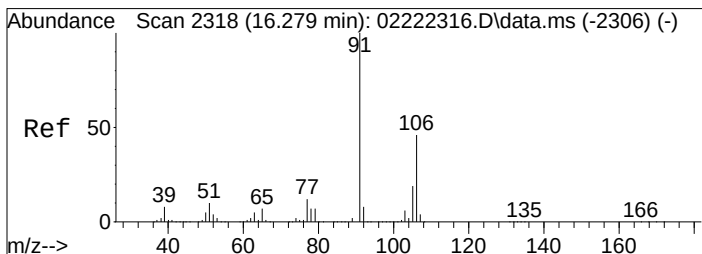
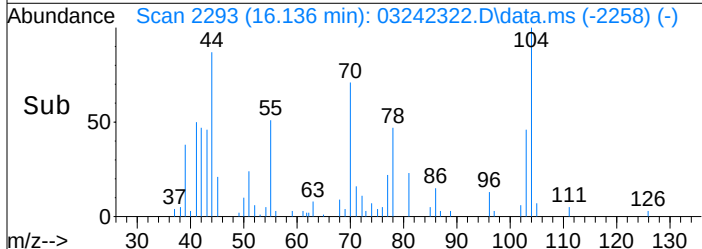
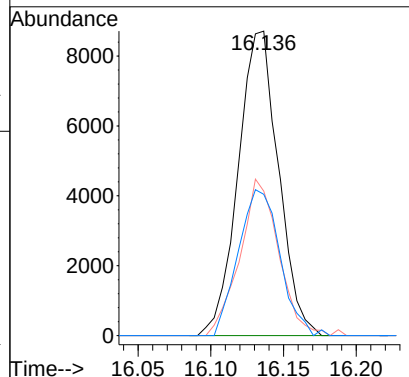
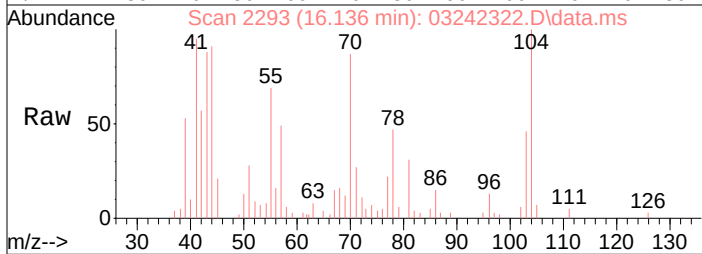
Tgt Ion	91	106	Resp	446194
Ion Ratio <td>100</td> <td>47.3</td> <td>Lower</td> <td>Upper</td>	100	47.3	Lower	Upper
		26.2		66.2





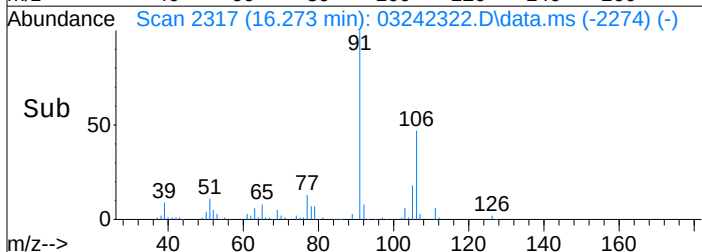
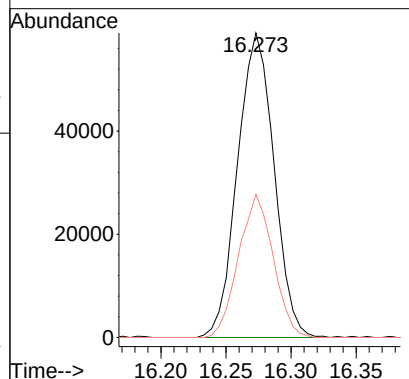
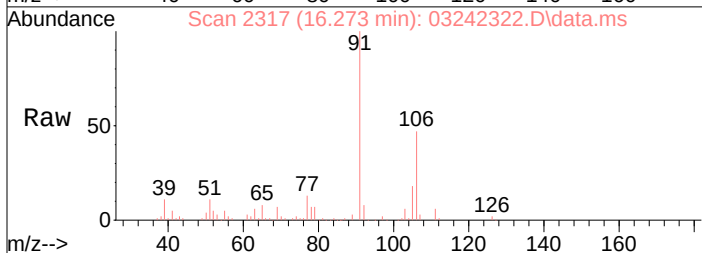
#69
 Styrene
 Concen: 0.25 ng
 RT: 16.14 min Scan# 2293
 Delta R.T. 0.000 min
 Lab File: 03242322.D
 Acq: 24 Mar 2023 19:11

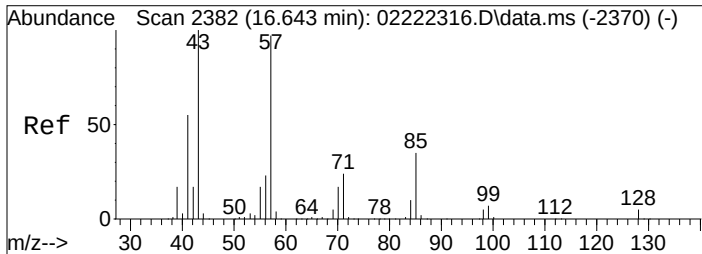
Tgt Ion:	104	Resp:	16802
Ion Ratio		Lower	Upper
104	100		
78	49.7	24.7	64.7
103	49.6	27.8	67.8



#70
 o-Xylene
 Concen: 1.24 ng
 RT: 16.27 min Scan# 2317
 Delta R.T. -0.006 min
 Lab File: 03242322.D
 Acq: 24 Mar 2023 19:11

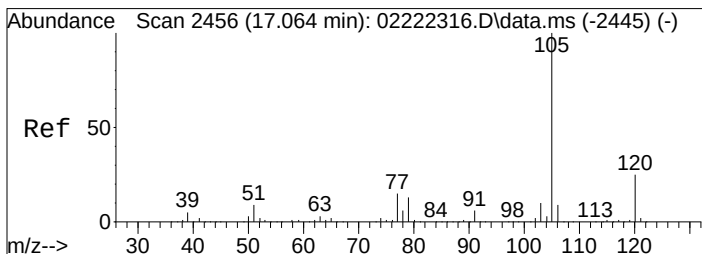
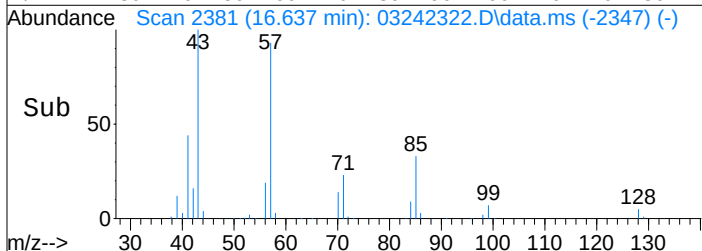
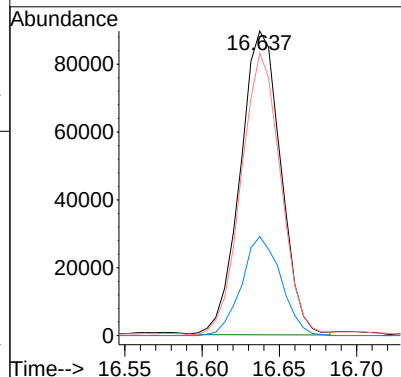
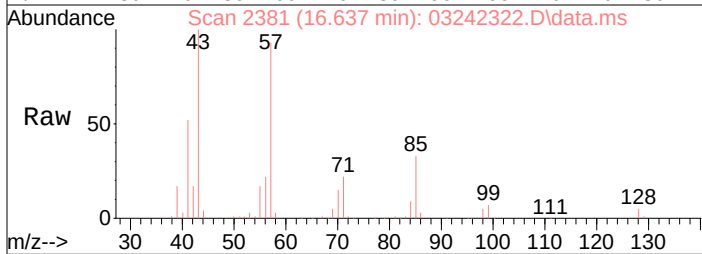
Tgt Ion:	91	Resp:	115028
Ion Ratio		Lower	Upper
91	100		
106	44.6	25.4	65.4





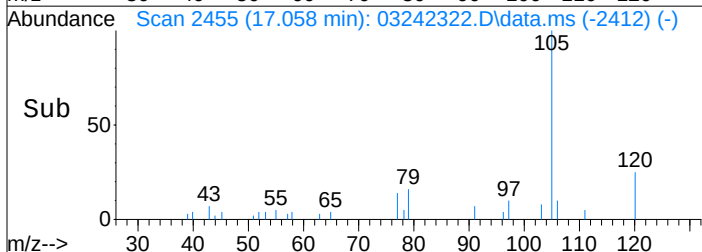
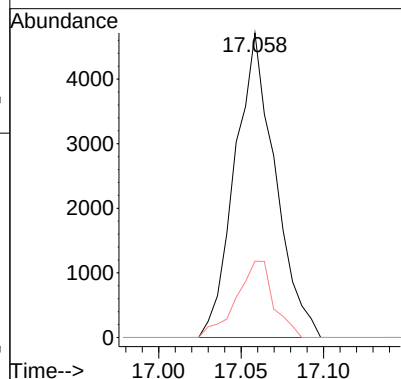
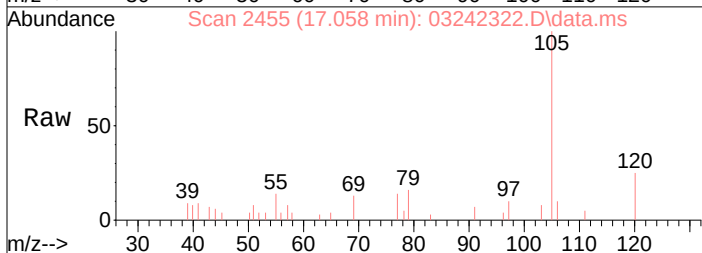
#71
 n-Nonane
 Concen: 3.65 ng
 RT: 16.64 min Scan# 2381
 Delta R.T. -0.006 min
 Lab File: 03242322.D
 Acq: 24 Mar 2023 19:11

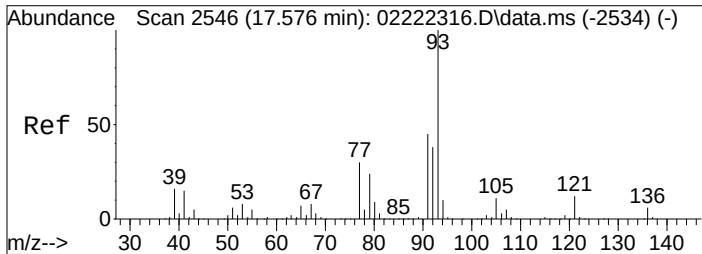
Tgt Ion:	43	Resp:	163386
Ion Ratio		Lower	Upper
43	100		
57	92.1	74.2	114.2
85	31.6	14.2	54.2



#74
 Cumene
 Concen: 0.07 ng
 RT: 17.06 min Scan# 2455
 Delta R.T. -0.006 min
 Lab File: 03242322.D
 Acq: 24 Mar 2023 19:11

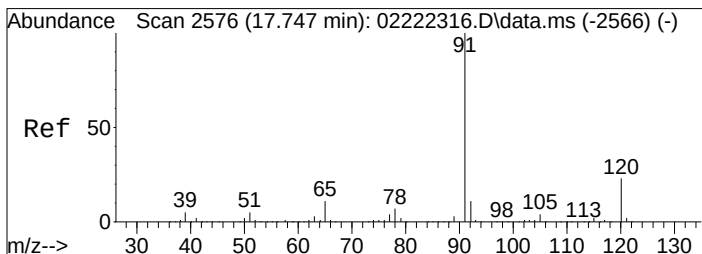
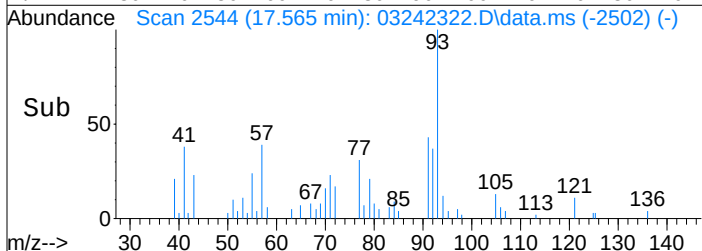
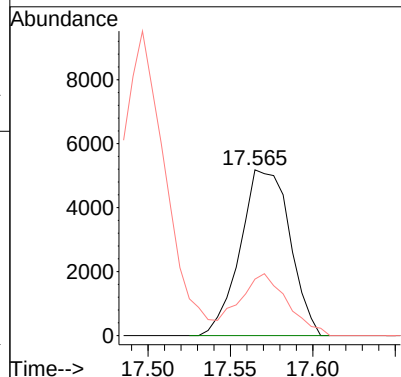
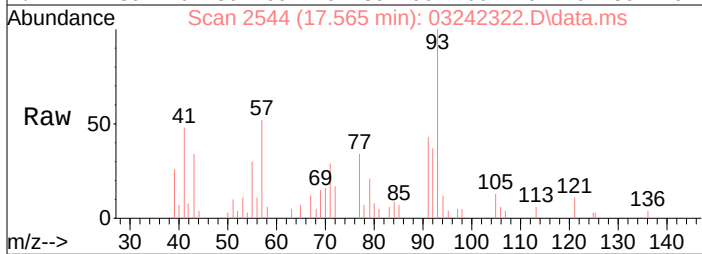
Tgt Ion:	105	Resp:	7987
Ion Ratio		Lower	Upper
105	100		
120	23.3	5.2	45.2





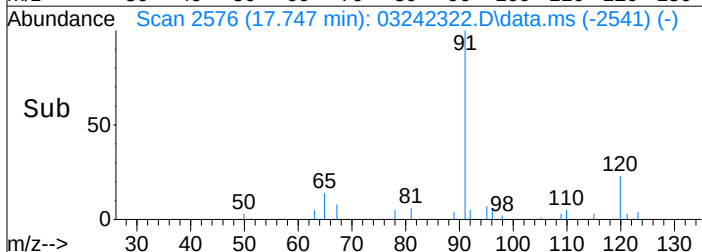
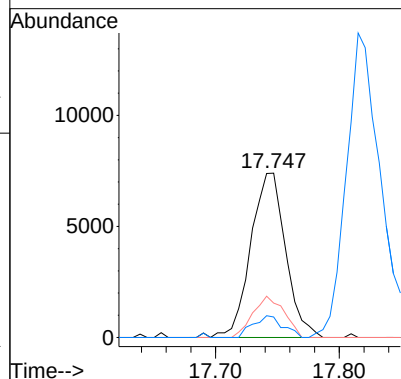
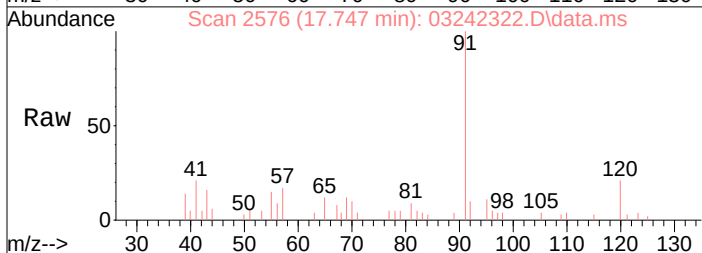
#75
 alpha-Pinene
 Concen: 0.21 ng
 RT: 17.56 min Scan# 2544
 Delta R.T. -0.011 min
 Lab File: 03242322.D
 Acq: 24 Mar 2023 19:11

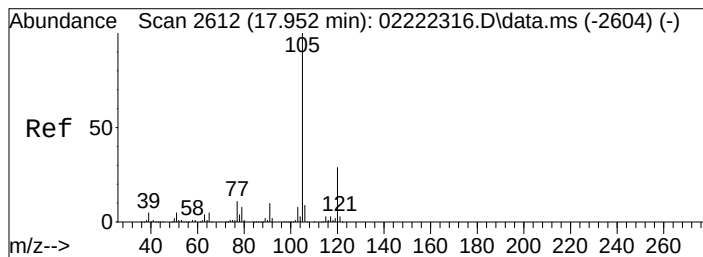
Tgt Ion:	93	Resp:	10855
Ion Ratio	Lower	Upper	
93	100		
77	36.2	11.1	51.1



#76
 n-Propylbenzene
 Concen: 0.11 ng
 RT: 17.75 min Scan# 2576
 Delta R.T. 0.000 min
 Lab File: 03242322.D
 Acq: 24 Mar 2023 19:11

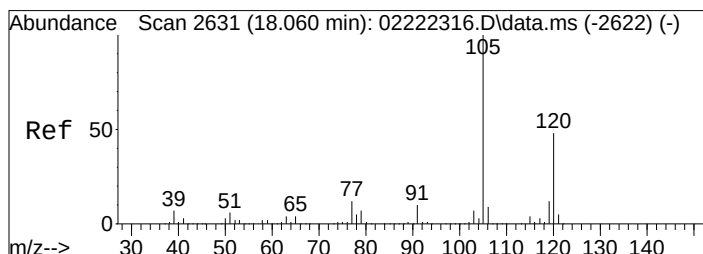
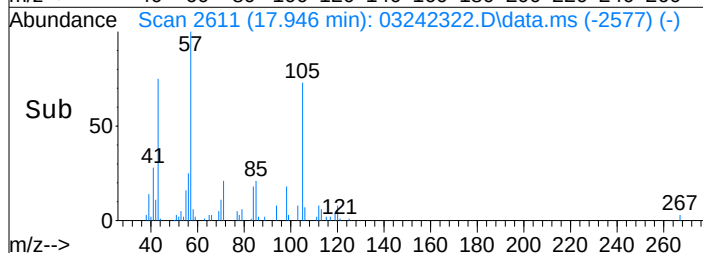
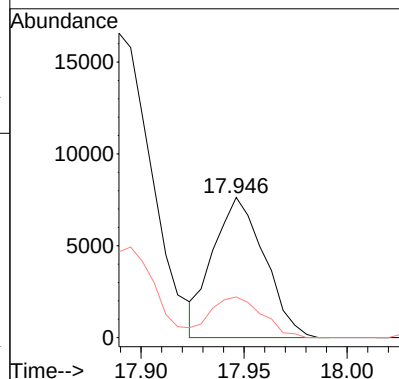
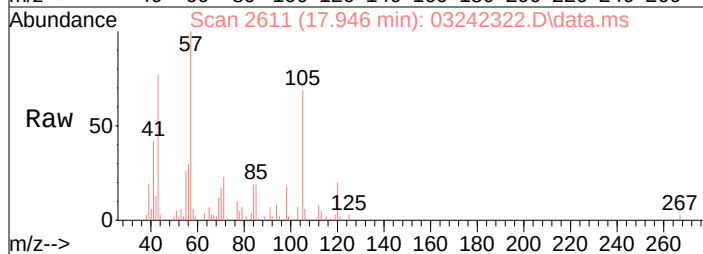
Tgt Ion:	91	Resp:	14580
Ion Ratio	Lower	Upper	
91	100		
120	22.4	2.7	42.7
65	11.3	0.0	30.7





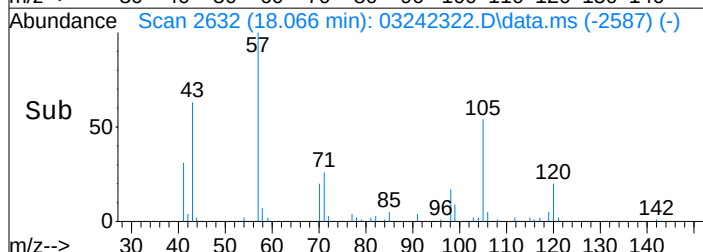
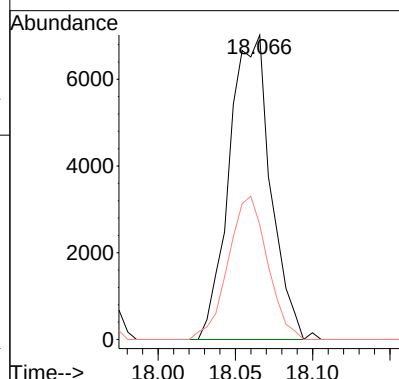
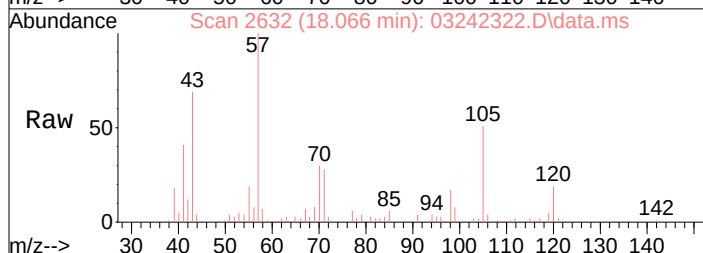
#78
 4-Ethyltoluene
 Concen: 0.12 ng
 RT: 17.95 min Scan# 2611
 Delta R.T. -0.006 min
 Lab File: 03242322.D
 Acq: 24 Mar 2023 19:11

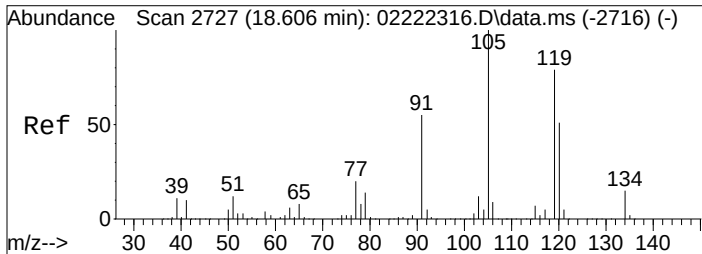
Tgt Ion:105 Resp: 13283
 Ion Ratio Lower Upper
 105 100
 120 29.1 9.1 49.1



#79
 1,3,5-Trimethylbenzene
 Concen: 0.14 ng
 RT: 18.07 min Scan# 2632
 Delta R.T. 0.006 min
 Lab File: 03242322.D
 Acq: 24 Mar 2023 19:11

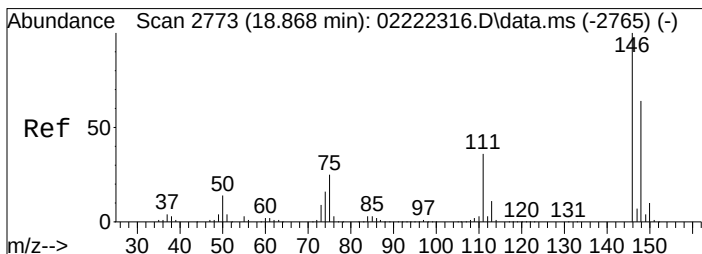
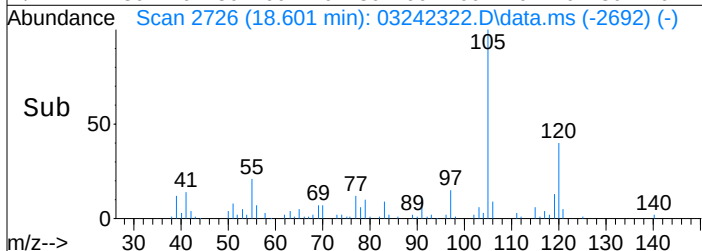
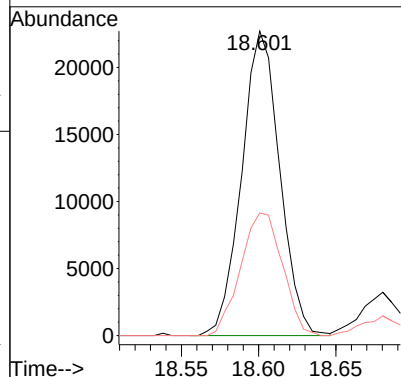
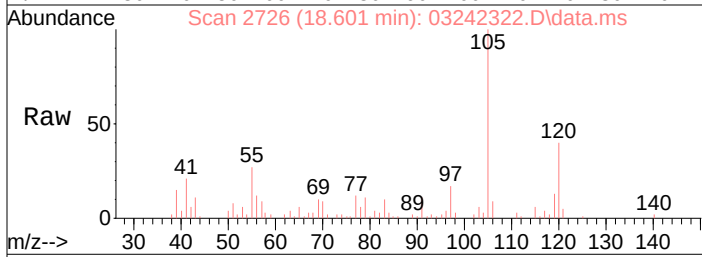
Tgt Ion:105 Resp: 13054
 Ion Ratio Lower Upper
 105 100
 120 44.8 28.4 68.4





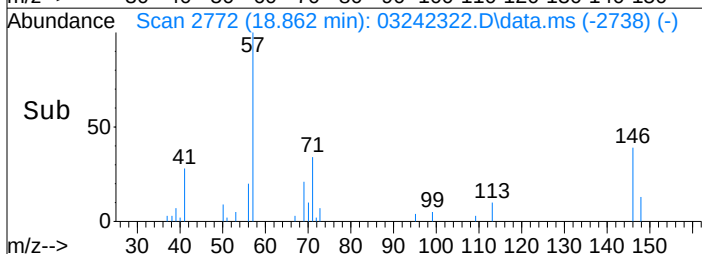
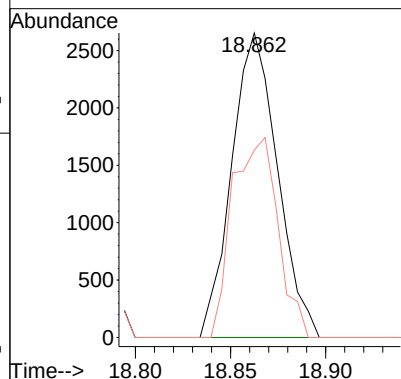
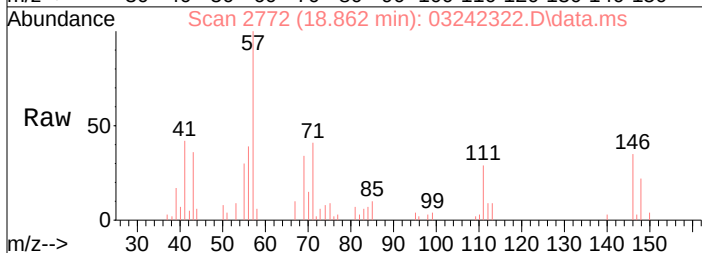
#82
 1,2,4-Trimethylbenzene
 Concen: 0.41 ng
 RT: 18.60 min Scan# 2726
 Delta R.T. -0.006 min
 Lab File: 03242322.D
 Acq: 24 Mar 2023 19:11

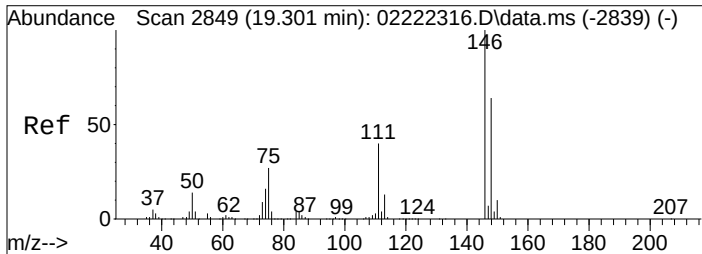
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	38993		
120	44.2	32.8		72.8



#86
 1,4-Dichlorobenzene
 Concen: 0.08 ng
 RT: 18.86 min Scan# 2772
 Delta R.T. -0.006 min
 Lab File: 03242322.D
 Acq: 24 Mar 2023 19:11

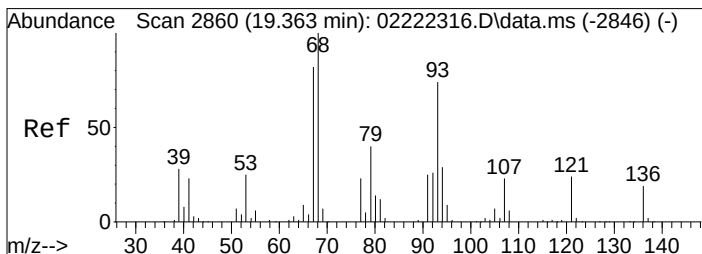
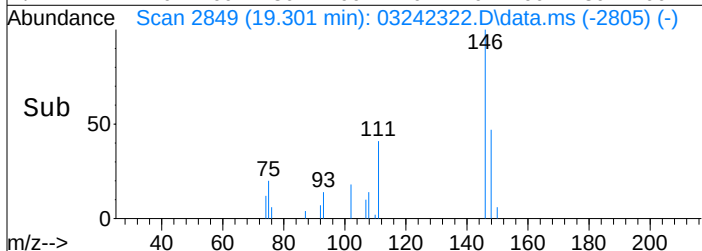
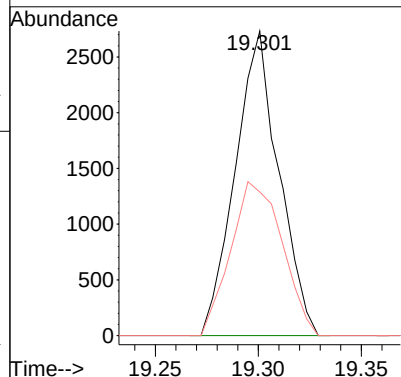
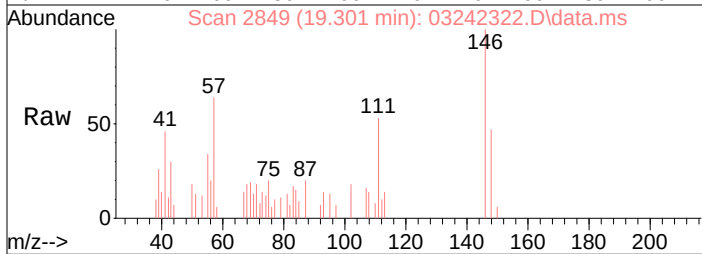
Tgt Ion	Ratio	Resp	Lower	Upper
146	100	4445		
148	65.3	44.7		84.7





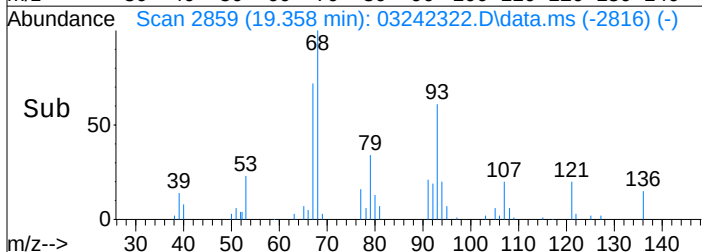
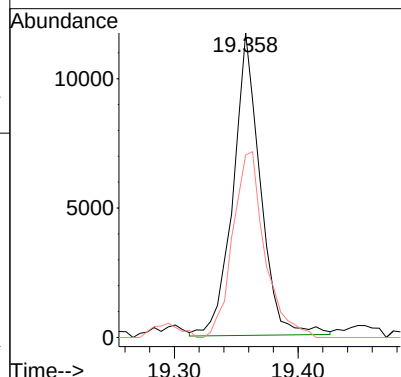
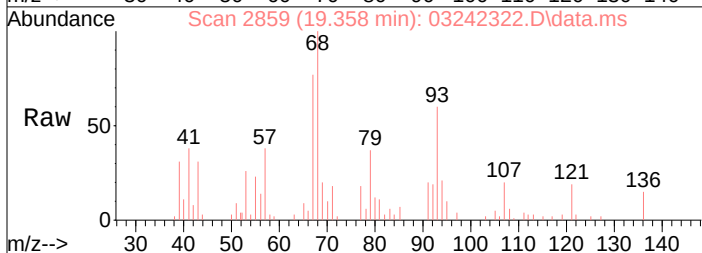
#90
 1,2-Dichlorobenzene
 Concen: 0.07 ng
 RT: 19.30 min Scan# 2849
 Delta R.T. 0.000 min
 Lab File: 03242322.D
 Acq: 24 Mar 2023 19:11

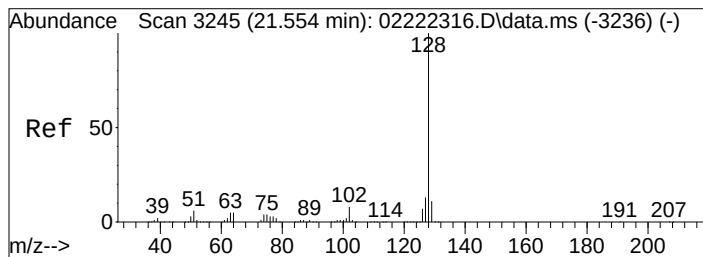
Tgt Ion:	146	Resp:	4019
Ion Ratio		Lower	Upper
146	100		
148	59.7	44.4	84.4



#91
 d-Limonene
 Concen: 0.56 ng
 RT: 19.36 min Scan# 2859
 Delta R.T. -0.006 min
 Lab File: 03242322.D
 Acq: 24 Mar 2023 19:11

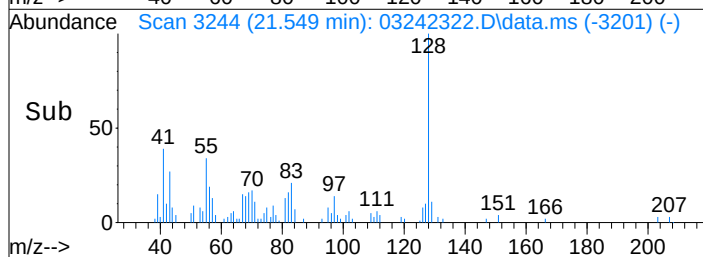
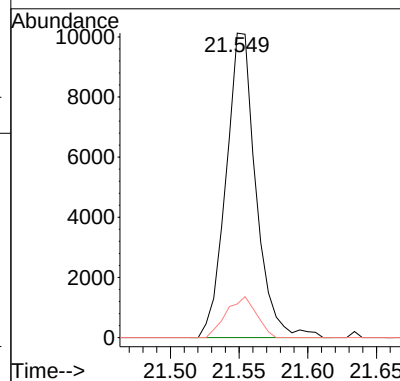
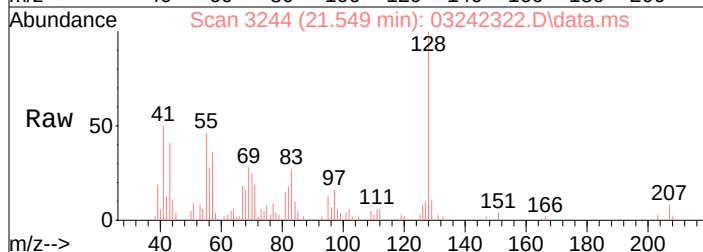
Tgt Ion:	68	Resp:	17892
Ion Ratio		Lower	Upper
68	100		
93	72.2	54.8	94.8





#95
 Naphthalene
 Concen: 0.15 ng
 RT: 21.55 min Scan# 3244
 Delta R.T. -0.006 min
 Lab File: 03242322.D
 Acq: 24 Mar 2023 19:11

Tgt Ion:128 Resp: 15315
 Ion Ratio Lower Upper
 128 100
 129 13.5 0.0 30.9



Data File : I:\MS13\DATA\2023_03\24\03242322.D
 Acq On : 24 Mar 2023 19:11
 Sample : P2301250-017 (1000mL)
 Misc : S35-01202301

Vial: 6
 Operator: TZ
 Inst : MS13

Tz 3/28/23

Quant Time: Mar 28 09:57:48 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.32	130	247688	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	9.38	114	1092519	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	14.88	54	205611	12.500	ng	0.00

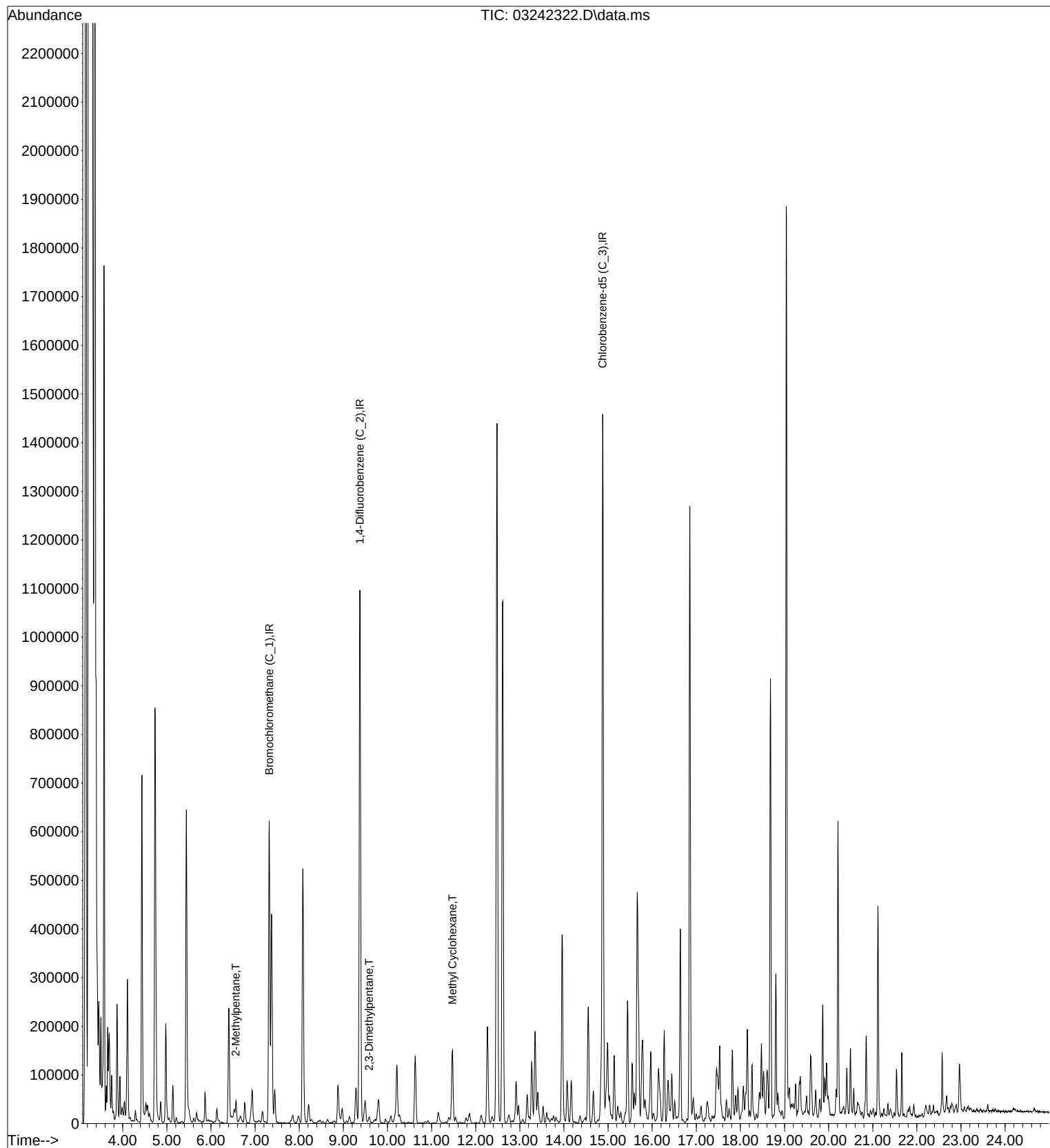
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	0.00	85	0	N.D.	d	
3) 1,1,1,2-Tetrafluoroeth...	0.00	83	0	N.D.	d	
4) 1,1-Difluoroethane	3.33	65	1407	N.D.		
5) Chlorodifluoromethane ...	3.35	67	388	N.D.		
6) 1-Chloro-1,1-Difluoroe...	3.62	65	2288	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	0.00	43	0	N.D.	d	
12) 2-Methylpentane	6.56	71	9507	0.549	ng	# 14
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	9.14	84	1559	N.D.		
17) 2,3-Dimethylpentane	9.59	56	6857	0.213	ng	95
18) Dibromomethane	9.88	174	384	N.D.		
20) Methyl Cyclohexane	11.48	55	66184	1.934	ng	88
21) 1,3-Dichloropropane	0.00	76	0	N.D.	d	
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	15.22	91	640	N.D.		
24) 1,2,3-Trichloropropane	16.36	75	3745	N.D.		
25) Bromobenzene	17.11	77	71	N.D.		
26) 2-Chlorotoluene	17.66	91	75	N.D.		
27) 4-Chlorotoluene	0.00	91	0	N.D.	d	
28) Indane	19.39	117	3803	N.D.		
29) Indene	19.50	115	936	N.D.		
30) 1,2,4,5-Tetramethylben...	20.70	119	3606	N.D.		
31) 1,2,3,4-Tetramethylben...	20.70	119	3606	N.D.		
32) 1,2,3,5-Tetramethylben...	21.14	119	4132	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242322.D
Acq On : 24 Mar 2023 19:11
Sample : P2301250-017 (1000mL)
Misc : S35-01202301

Vial: 6
Operator: TZ
Inst : MS13

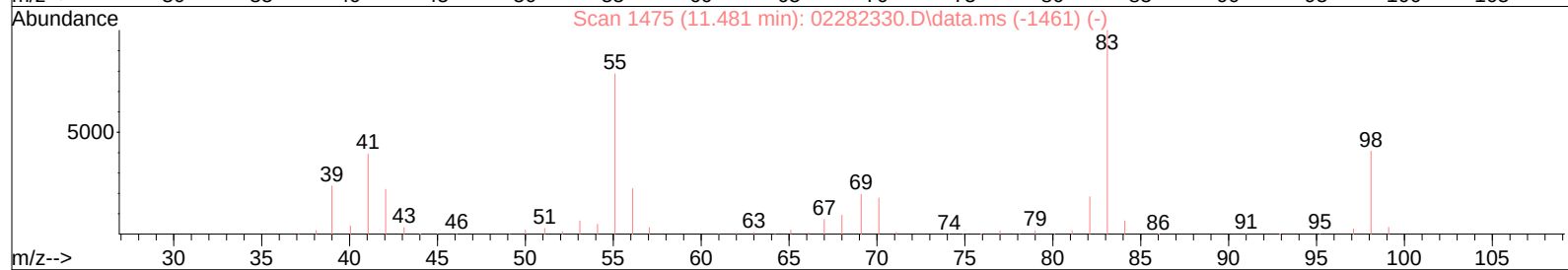
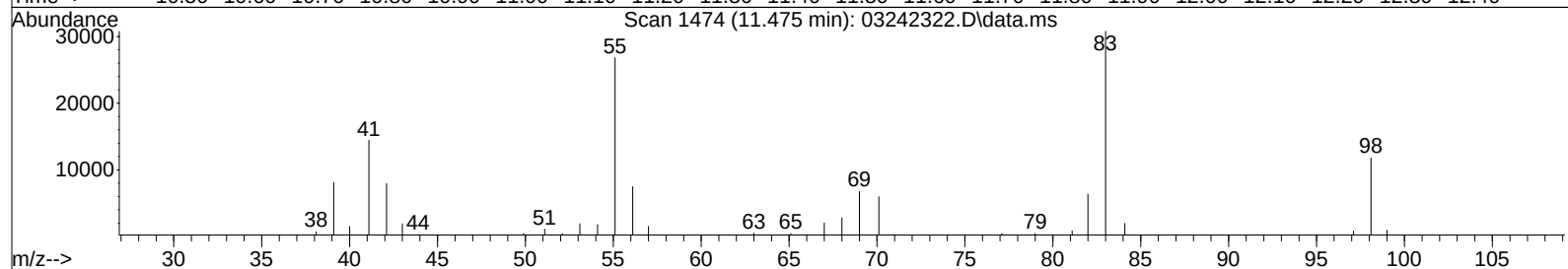
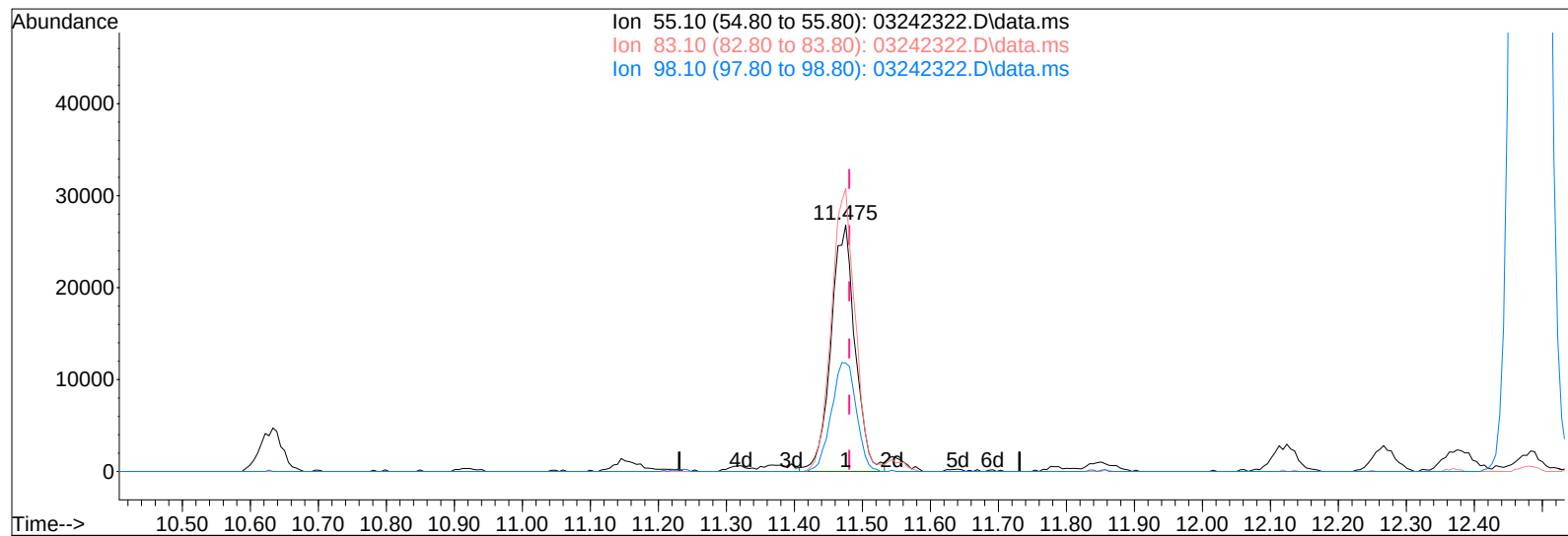
Quant Time: Mar 28 09:57:48 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242322.D
Acq On : 24 Mar 2023 19:11
Sample : P2301250-017 (1000mL)
Misc : S35-01202301

Vial: 6
Operator: TZ
Inst : MS13

Quant Time: Mar 27 16:04:14 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03242322.D\data.ms

(20) Methyl Cyclohexane (T)

11.475min (-0.006) 1.93ng

response 66184

Ion	Exp%	Act%
55.10	100	100
83.10	128.30	113.01
98.10	53.10	45.70
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG21-2

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala/Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02225

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23 & 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -3.41 Final Pressure (psig): 3.61

Container Dilution Factor: 1.62

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.6	0.86	0.14	0.53	0.17	0.029	
74-87-3	Chloromethane	ND	0.34	0.14	ND	0.16	0.067	
75-01-4	Vinyl Chloride	ND	0.18	0.092	ND	0.070	0.036	
74-83-9	Bromomethane	ND	0.34	0.12	ND	0.088	0.031	
75-00-3	Chloroethane	ND	0.34	0.11	ND	0.13	0.041	
67-64-1	Acetone	9.1	8.5	1.9	3.8	3.6	0.82	
75-69-4	Trichlorofluoromethane	1.2	0.84	0.13	0.21	0.15	0.023	
75-35-4	1,1-Dichloroethene	ND	0.18	0.12	ND	0.045	0.030	
75-09-2	Methylene Chloride	5.2	0.86	0.24	1.5	0.25	0.070	
76-13-1	Trichlorotrifluoroethane	0.50	0.87	0.12	0.065	0.11	0.016	J
75-15-0	Carbon Disulfide	0.34	1.7	0.26	0.11	0.56	0.083	J
156-60-5	trans-1,2-Dichloroethene	ND	0.18	0.12	ND	0.045	0.030	
75-34-3	1,1-Dichloroethane	ND	0.18	0.13	ND	0.044	0.031	
1634-04-4	Methyl tert-Butyl Ether	ND	0.87	0.10	ND	0.24	0.028	
78-93-3	2-Butanone (MEK)	1.4	1.7	0.18	0.47	0.57	0.060	J
156-59-2	cis-1,2-Dichloroethene	0.55	0.18	0.12	0.14	0.045	0.031	
67-66-3	Chloroform	2.4	0.18	0.12	0.49	0.037	0.024	
107-06-2	1,2-Dichloroethane	ND	0.18	0.096	ND	0.044	0.024	
71-55-6	1,1,1-Trichloroethane	0.13	0.18	0.11	0.023	0.033	0.020	J
71-43-2	Benzene	0.33	0.18	0.12	0.10	0.056	0.039	
56-23-5	Carbon Tetrachloride	0.40	0.18	0.12	0.064	0.028	0.019	
110-82-7	Cyclohexane	0.30	1.7	0.24	0.087	0.49	0.071	J
78-87-5	1,2-Dichloropropane	ND	0.18	0.11	ND	0.039	0.023	
75-27-4	Bromodichloromethane	ND	0.18	0.12	ND	0.027	0.019	
79-01-6	Trichloroethene	6.5	0.18	0.12	1.2	0.033	0.022	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG21-2

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala/Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02225

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23 & 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -3.41 Final Pressure (psig): 3.61

Container Dilution Factor: 1.62

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.87	0.13	ND	0.19	0.030	
108-10-1	4-Methyl-2-pentanone	0.31	1.8	0.12	0.077	0.44	0.029	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.83	0.18	ND	0.18	0.039	
79-00-5	1,1,2-Trichloroethane	ND	0.18	0.087	ND	0.033	0.016	
108-88-3	Toluene	220	8.6	1.1	59	2.3	0.28	D
591-78-6	2-Hexanone	ND	1.8	0.11	ND	0.44	0.026	
124-48-1	Dibromochloromethane	ND	0.18	0.11	ND	0.021	0.013	
106-93-4	1,2-Dibromoethane	ND	0.18	0.10	ND	0.023	0.013	
127-18-4	Tetrachloroethene	6.1	0.18	0.11	0.90	0.026	0.016	
108-90-7	Chlorobenzene	ND	0.86	0.12	ND	0.19	0.025	
100-41-4	Ethylbenzene	2.1	0.86	0.12	0.49	0.20	0.028	
179601-23-1	m,p-Xylenes	5.7	1.8	0.23	1.3	0.41	0.052	
75-25-2	Bromoform	ND	0.87	0.18	ND	0.085	0.017	
100-42-5	Styrene	0.48	0.86	0.14	0.11	0.20	0.033	J
95-47-6	o-Xylene	1.6	0.86	0.12	0.36	0.20	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.18	0.12	ND	0.026	0.017	
98-82-8	Cumene	ND	0.87	0.12	ND	0.18	0.025	
541-73-1	1,3-Dichlorobenzene	ND	0.86	0.13	ND	0.14	0.022	
106-46-7	1,4-Dichlorobenzene	ND	0.86	0.13	ND	0.14	0.022	
95-50-1	1,2-Dichlorobenzene	ND	0.87	0.13	ND	0.15	0.021	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.8	0.16	ND	0.18	0.017	
120-82-1	1,2,4-Trichlorobenzene	ND	1.8	0.21	ND	0.24	0.028	
79-20-9	Methyl Acetate	ND	0.81	0.39	ND	0.27	0.13	X
108-87-2	Methylcyclohexane	0.74	0.81	0.42	0.18	0.20	0.10	J, X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

D = The reported result is from a dilution.

X = See case narrative.

Data File : I:\MS13\DATA\2023_03\24\03242323.D
 Acq On : 24 Mar 2023 19:48
 Sample : P2301250-018 (1000mL)
 Misc : S35-01202301

Vial: 7
 Operator: TZ
 Inst : MS13

TZ 3/27/23

Quant Time: Mar 27 13:35:58 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	240980	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.38	114	1060372	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	201891	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	408410	12.771	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.16%
57) Toluene-d8 (SS2)	12.49	98	1206874	11.624	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.96%
73) Bromofluorobenzene (SS3)	16.85	174	448739	11.800	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.40%

Target Compounds

						Qvalue
2) Propene	3.40	42	5015m	0.208	ng	
3) Dichlorodifluoromethan...	3.47	85	71205	1.613	ng	99
4) Chloromethane	0.00	50	0	N.D.	d	
5) 1,2-Dichloro-1,1,2,2-t...	3.72	135	1790	0.080	ng	99
6) Vinyl Chloride	3.68	62	1019	N.D.		
7) 1,3-Butadiene	3.87	54	975	N.D.		
8) Bromomethane	4.13	94	240	N.D.		
9) Chloroethane	4.20	64	122	N.D.		
10) Ethanol	4.42	45	324960	18.987	ng	100
11) Acetonitrile	4.56	41	4421	0.099	ng	95
12) Acrolein	4.65	56	1522	0.108	ng	87
13) Acetone	4.74	58	81615	5.588	ng	91
14) Trichlorofluoromethane	4.86	101	29166	0.734	ng	99
15) 2-Propanol (Isopropanol)	4.96	45	64955	1.102	ng	94
16) Acrylonitrile	5.10	53	129	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.44	84	69149	3.229	ng	96
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	5.69	151	6462	0.309	ng	100
22) Carbon Disulfide	5.72	76	17793	0.210	ng	97
23) trans-1,2-Dichloroethene	6.23	61	685	N.D.		
24) 1,1-Dichloroethane	6.41	63	1678	N.D.		
25) Methyl tert-Butyl Ether	6.40	73	526	N.D.		
26) Vinyl Acetate	6.54	86	952	0.241	ng	# 79
27) 2-Butanone (MEK)	6.77	72	11197	0.864	ng	99
28) cis-1,2-Dichloroethene	7.16	61	10374	0.337	ng	98
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	7.37	61	71548	8.391	ng	95
31) n-Hexane	7.39	57	8641	0.263	ng	97
32) Chloroform	7.45	83	57707	1.486	ng	99
34) Tetrahydrofuran (THF)	7.86	72	2423	0.182	ng	# 74
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.20	62	396	N.D.		
38) 1,1,1-Trichloroethane	8.47	97	2783	0.079	ng	98
39) Isopropyl Acetate	9.38	61	30562	No Calib		
40) 1-Butanol	8.88	56	55068	No Calib	#	
41) Benzene	8.97	78	16844	0.204	ng	100
42) Carbon Tetrachloride	9.14	117	7660	0.247	ng	93
43) Cyclohexane	9.29	84	5572	0.184	ng	89
44) tert-Amyl Methyl Ether	9.67	73	124	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	10.15	83	733	N.D.		
47) Trichloroethene	10.21	130	96272	3.984	ng	99
48) 1,4-Dioxane	10.22	88	756	N.D.		
49) 2,2,4-Trimethylpentane...	10.30	57	3094	N.D.		
50) Methyl Methacrylate	10.48	100	115	N.D.		

Data File : I:\MS13\DATA\2023_03\24\03242323.D
 Acq On : 24 Mar 2023 19:48
 Sample : P2301250-018 (1000mL)
 Misc : S35-01202301

Vial: 7
 Operator: TZ
 Inst : MS13

Quant Time: Mar 27 13:35:58 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

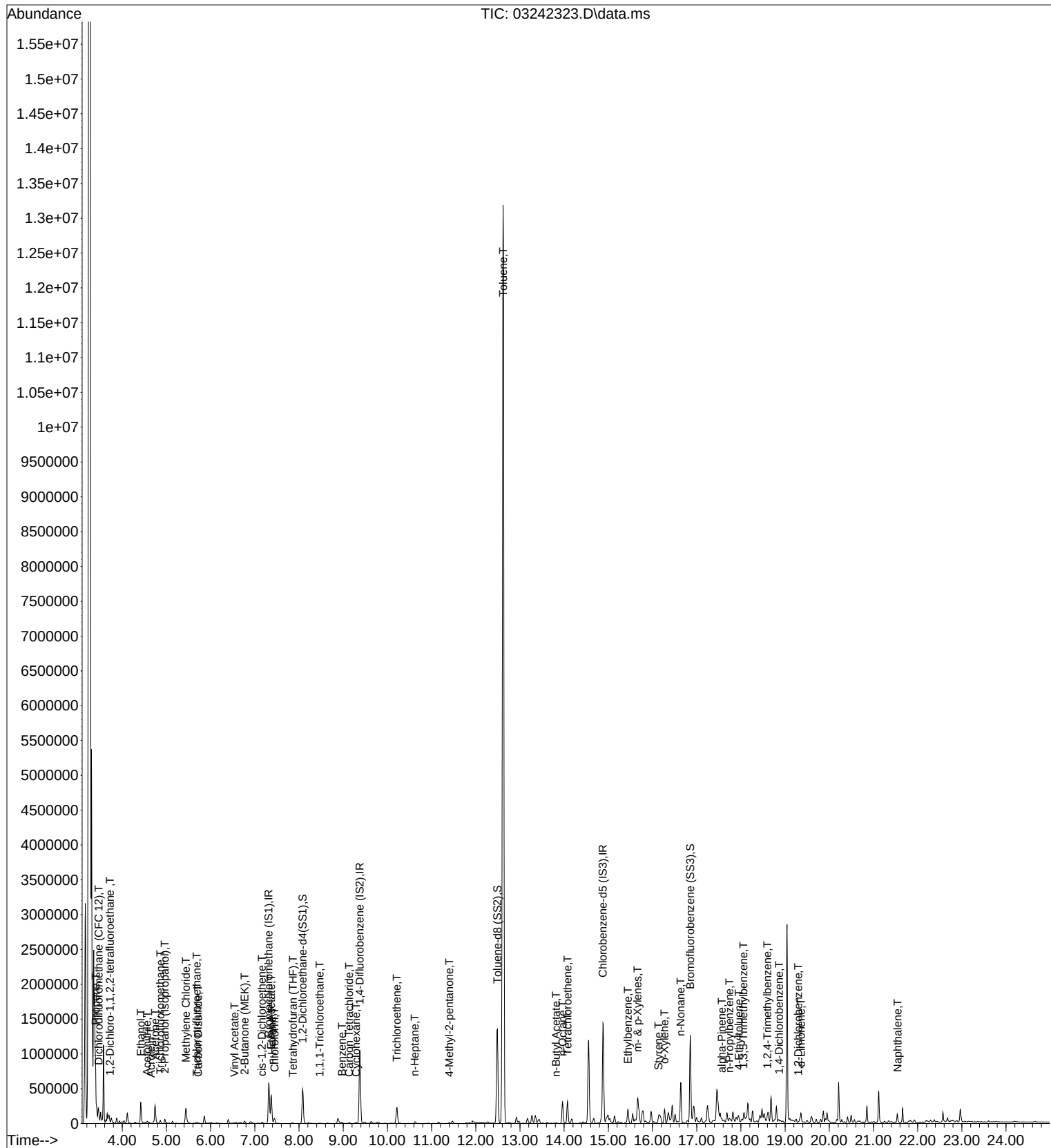
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.62	71	7243	0.363	ng	98
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.40	58	3453	0.194	ng	87
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.62	91	12766579	129.160	ng	100
59) 2-Hexanone	0.00	43	0	N.D.	d	
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.82	43	7937	0.145	ng	87
63) n-Octane	13.96	57	56212	2.892	ng	94
64) Tetrachloroethene	14.08	166	113315	3.768	ng	98
65) Chlorobenzene	0.00	112	0	N.D.	d	
66) Ethylbenzene	15.44	91	154837	1.313	ng	100
67) m- & p-Xylenes	15.66	91	336199	3.543	ng	98
68) Bromoform	15.72	173	112	N.D.		
69) Styrene	16.14	104	19442	0.298	ng	98
70) o-Xylene	16.27	91	87370	0.963	ng	99
71) n-Nonane	16.64	43	239536	5.455	ng	96
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.	d	
74) Cumene	17.06	105	5142	N.D.		
75) alpha-Pinene	17.57	93	10865	0.213	ng	77
76) n-Propylbenzene	17.74	91	11085	0.084	ng	91
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	11926	0.113	ng	97
79) 1,3,5-Trimethylbenzene	18.06	105	11603	0.124	ng	97
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.60	105	39160	0.424	ng	91
83) n-Decane	17.00	58	521	No Calib	#	
84) Benzyl Chloride	18.77	91	1554	N.D.		
85) 1,3-Dichlorobenzene	18.77	146	2345	N.D.		
86) 1,4-Dichlorobenzene	18.86	146	3518	0.061	ng	100
87) sec-Butylbenzene	18.95	105	1390	N.D.		
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.	d	
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.29	146	3319	0.060	ng	97
91) d-Limonene	19.36	68	28066	0.899	ng	100
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.26	58	3988	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	558	N.D.		
95) Naphthalene	21.55	128	14631	0.146	ng	98
96) n-Dodecane	19.20	58	1076	No Calib	#	
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	15.63	55	13812	No Calib	#	
99) tert-Butylbenzene	0.00	119	0	N.D.	d	
100) n-Butylbenzene	0.00	91	0	N.D.	d	
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242323.D
Acq On : 24 Mar 2023 19:48
Sample : P2301250-018 (1000mL)
Misc : S35-01202301

Vial: 7
Operator: TZ
Inst : MS13

Quant Time: Mar 27 13:35:58 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242323.D
 Acq On : 24 Mar 2023 19:48
 Sample : P2301250-018 (1000mL)
 Misc : S35-01202301

Vial: 7
 Operator: TZ
 Inst : MS13

TZ 3/27/23

Quant Time: Mar 27 13:35:58 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	240980	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.38	114	1060372	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	201891	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	408410	12.771	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.16%
57) Toluene-d8 (SS2)	12.49	98	1206874	11.624	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.96%
73) Bromofluorobenzene (SS3)	16.85	174	448739	11.800	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.40%

Target Compounds

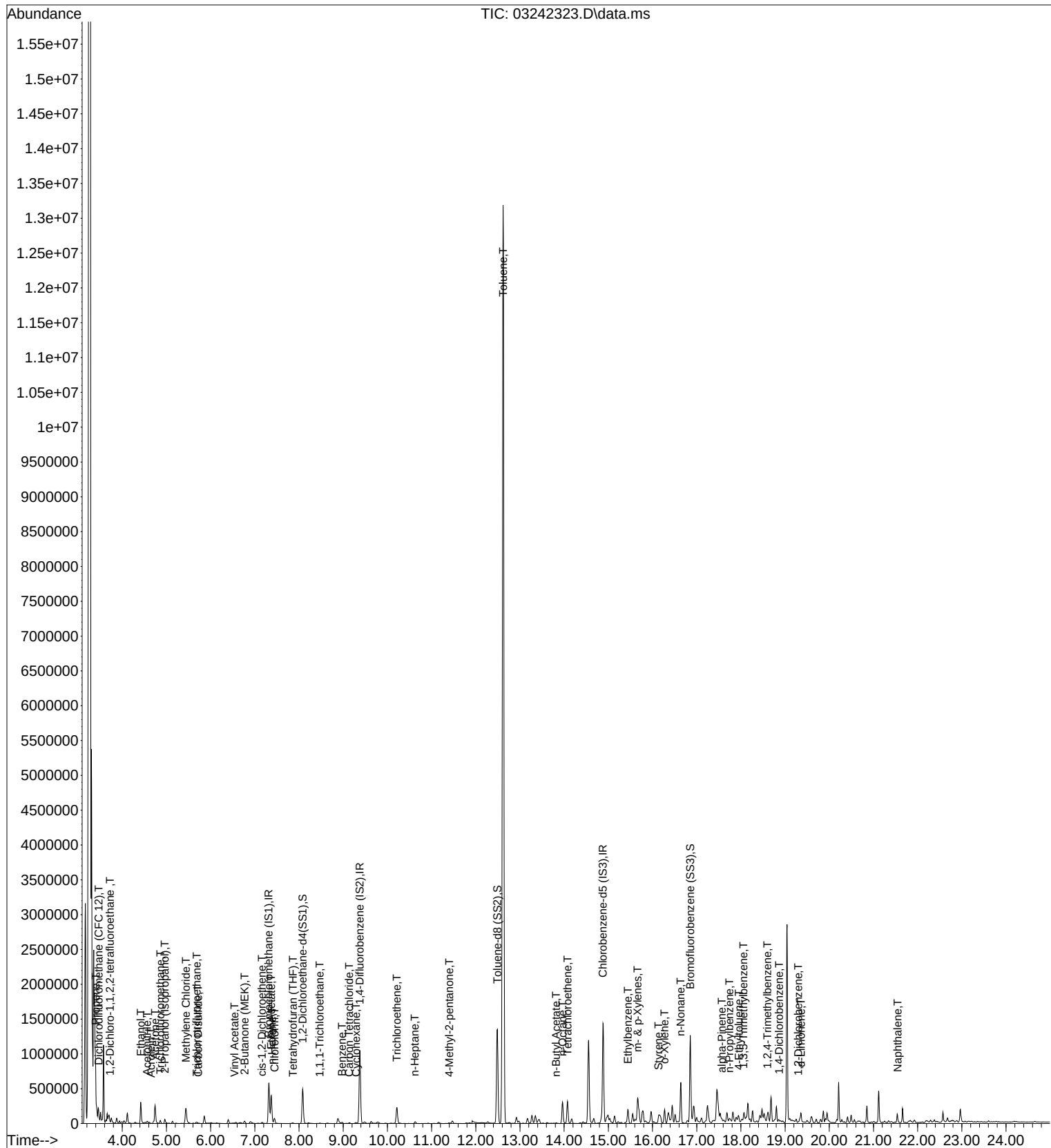
						Qvalue
2) Propene	3.40	42	5015m	0.208	ng	
3) Dichlorodifluoromethan...	3.47	85	71205	1.613	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	3.72	135	1790	0.080	ng	99
10) Ethanol	4.42	45	324960	18.987	ng	100
11) Acetonitrile	4.56	41	4421	0.099	ng	95
12) Acrolein	4.65	56	1522	0.108	ng	87
13) Acetone	4.74	58	81615	5.588	ng	91
14) Trichlorofluoromethane	4.86	101	29166	0.734	ng	99
15) 2-Propanol (Isopropanol)	4.96	45	64955	1.102	ng	94
19) Methylene Chloride	5.44	84	69149	3.229	ng	96
21) Trichlorotrifluoroethane	5.69	151	6462	0.309	ng	100
22) Carbon Disulfide	5.72	76	17793	0.210	ng	97
26) Vinyl Acetate	6.54	86	952	0.241	ng	# 79
27) 2-Butanone (MEK)	6.77	72	11197	0.864	ng	99
28) cis-1,2-Dichloroethene	7.16	61	10374	0.337	ng	98
30) Ethyl Acetate	7.37	61	71548	8.391	ng	95
31) n-Hexane	7.39	57	8641	0.263	ng	97
32) Chloroform	7.45	83	57707	1.486	ng	99
34) Tetrahydrofuran (THF)	7.86	72	2423	0.182	ng	# 74
38) 1,1,1-Trichloroethane	8.47	97	2783	0.079	ng	98
41) Benzene	8.97	78	16844	0.204	ng	100
42) Carbon Tetrachloride	9.14	117	7660	0.247	ng	93
43) Cyclohexane	9.29	84	5572	0.184	ng	89
47) Trichloroethene	10.21	130	96272	3.984	ng	99
51) n-Heptane	10.62	71	7243	0.363	ng	98
53) 4-Methyl-2-pentanone	11.40	58	3453	0.194	ng	87
58) Toluene	12.62	91	12766579	129.160	ng	100
62) n-Butyl Acetate	13.82	43	7937	0.145	ng	87
63) n-Octane	13.96	57	56212	2.892	ng	94
64) Tetrachloroethene	14.08	166	113315	3.768	ng	98
66) Ethylbenzene	15.44	91	154837	1.313	ng	100
67) m- & p-Xylenes	15.66	91	336199	3.543	ng	98
69) Styrene	16.14	104	19442	0.298	ng	98
70) o-Xylene	16.27	91	87370	0.963	ng	99
71) n-Nonane	16.64	43	239536	5.455	ng	96
75) alpha-Pinene	17.57	93	10865	0.213	ng	77
76) n-Propylbenzene	17.74	91	11085	0.084	ng	91
78) 4-Ethyltoluene	17.95	105	11926	0.113	ng	97
79) 1,3,5-Trimethylbenzene	18.06	105	11603	0.124	ng	97
82) 1,2,4-Trimethylbenzene	18.60	105	39160	0.424	ng	91
86) 1,4-Dichlorobenzene	18.86	146	3518	0.061	ng	100
90) 1,2-Dichlorobenzene	19.29	146	3319	0.060	ng	97
91) d-Limonene	19.36	68	28066	0.899	ng	100
95) Naphthalene	21.55	128	14631	0.146	ng	98

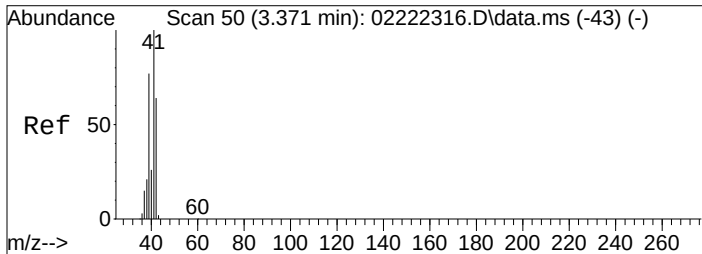
(#)= qualifier out of range (m)= manual integration (+)= signals summed

Data File : I:\MS13\DATA\2023_03\24\03242323.D
Acq On : 24 Mar 2023 19:48
Sample : P2301250-018 (1000mL)
Misc : S35-01202301

Vial: 7
Operator: TZ
Inst : MS13

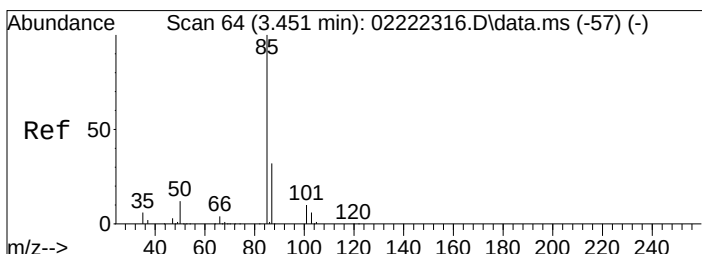
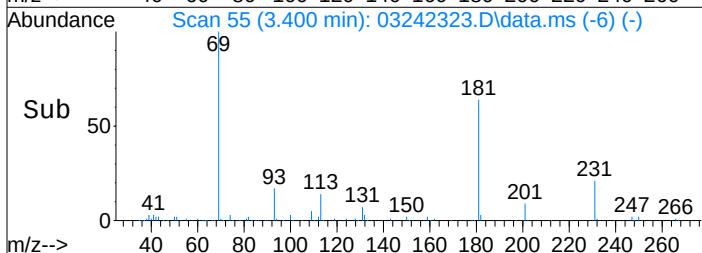
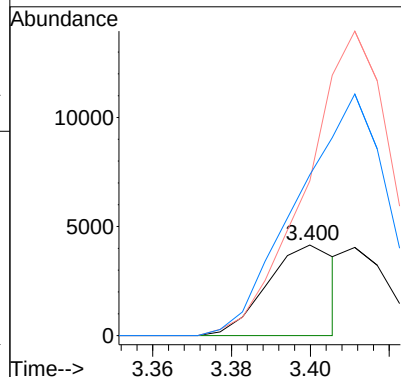
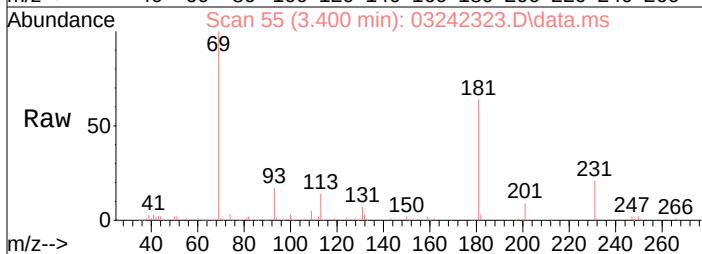
Quant Time: Mar 27 13:35:58 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M





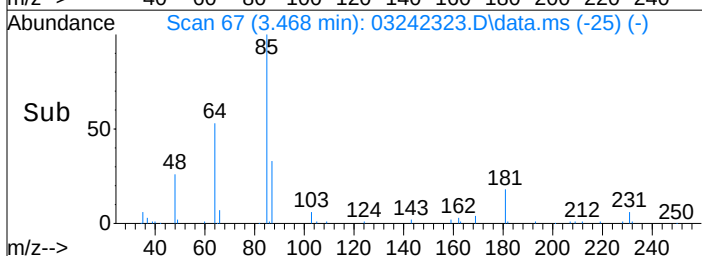
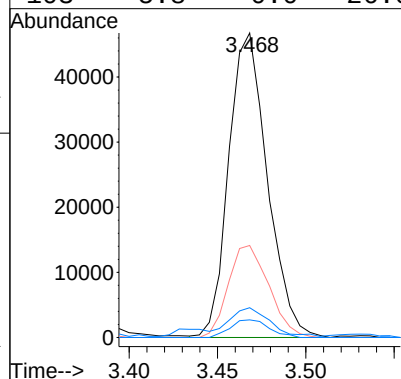
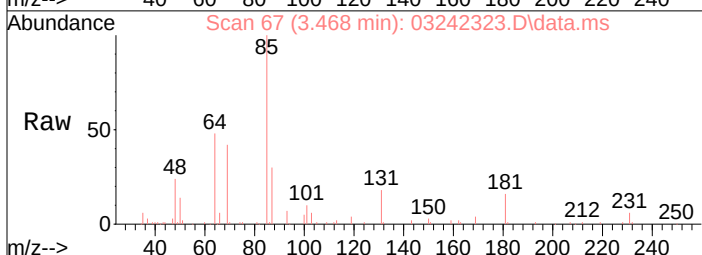
#2
 Propene
 Concen: 0.21 ng m
 RT: 3.40 min Scan# 55
 Delta R.T. 0.029 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:48

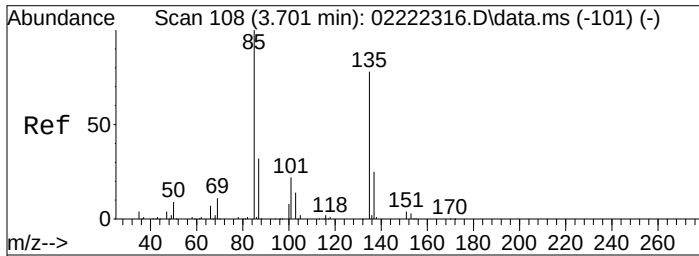
Tgt Ion:	42	Resp:	5015
Ion Ratio	Lower	Upper	
42	100		
39	434.6	100.7	140.7#
41	364.8	134.4	174.4#



#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.61 ng
 RT: 3.47 min Scan# 67
 Delta R.T. -0.010 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:48

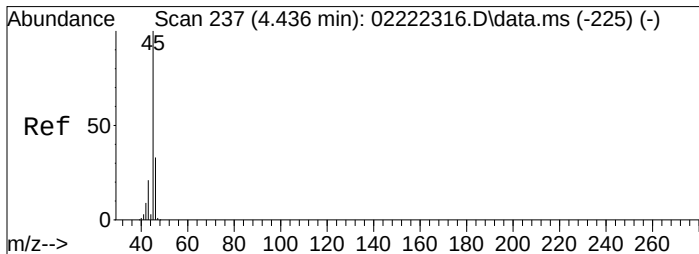
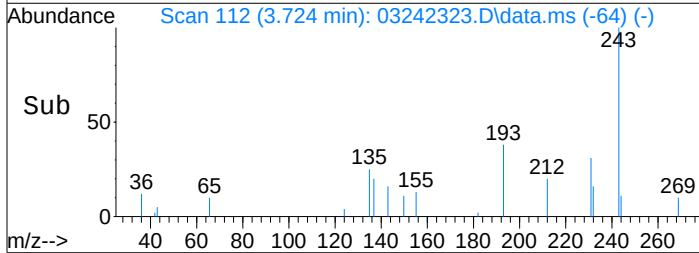
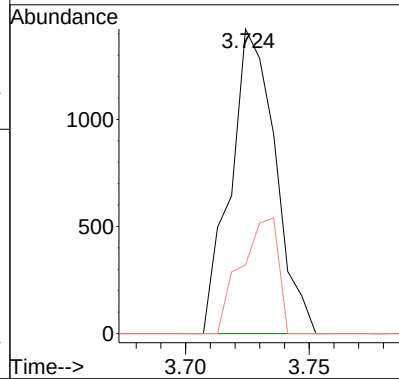
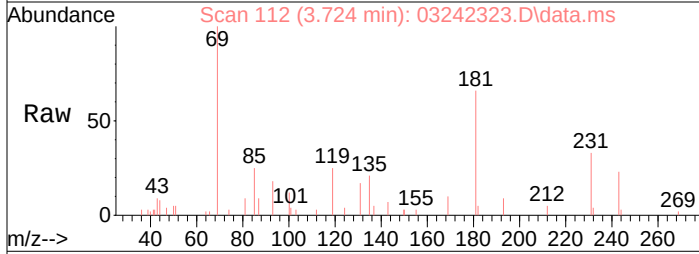
Tgt Ion:	85	Resp:	71205
Ion Ratio	Lower	Upper	
85	100		
87	31.6	12.4	52.4
101	9.6	0.0	29.4
103	5.8	0.0	26.0





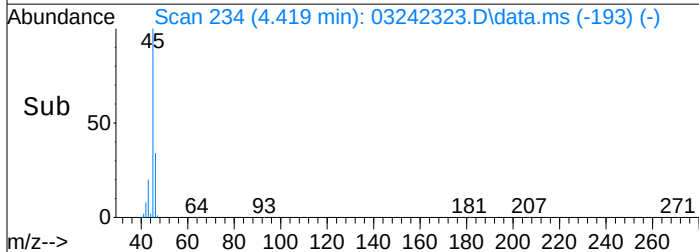
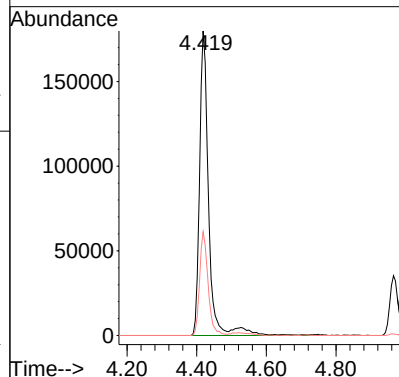
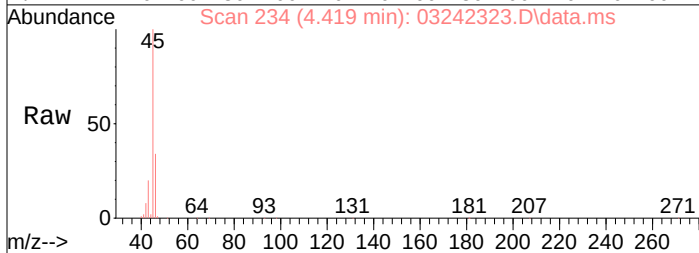
#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.08 ng
 RT: 3.72 min Scan# 112
 Delta R.T. 0.023 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:48

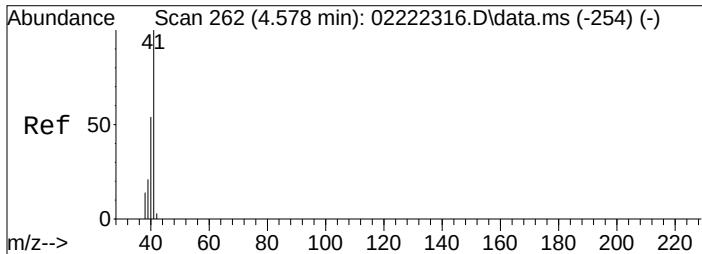
Tgt Ion: 135 Resp: 1790
 Ion Ratio Lower Upper
 135 100
 137 31.7 12.2 52.2



#10
 Ethanol
 Concen: 18.99 ng
 RT: 4.42 min Scan# 234
 Delta R.T. -0.017 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:48

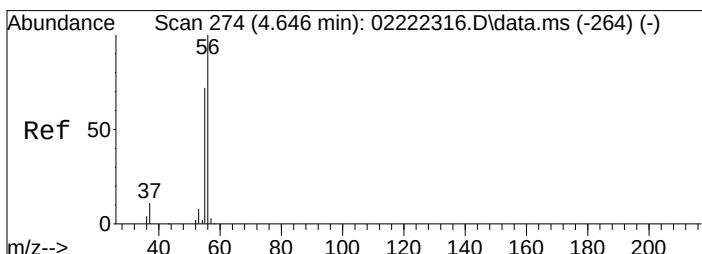
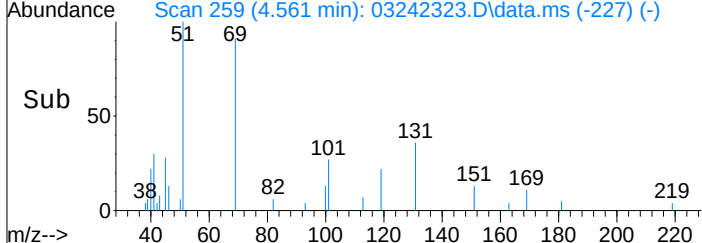
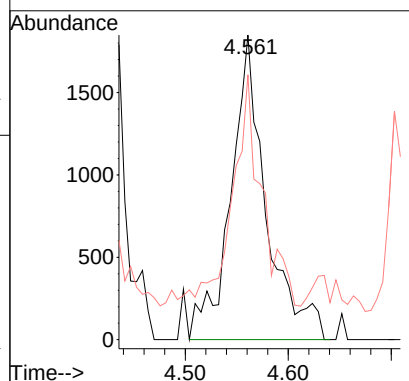
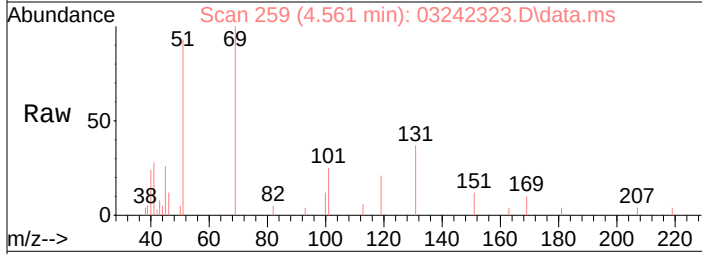
Tgt Ion: 45 Resp: 324960
 Ion Ratio Lower Upper
 45 100
 46 33.6 13.8 53.8





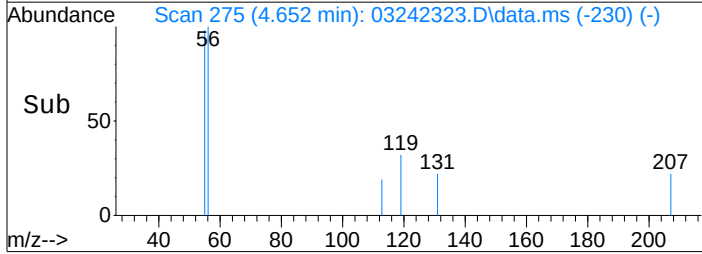
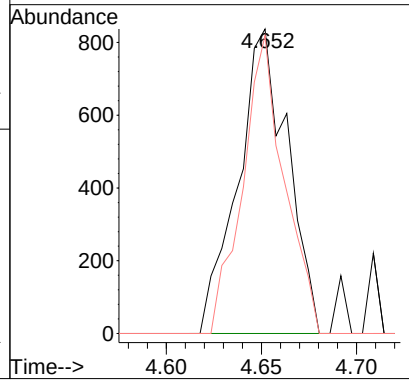
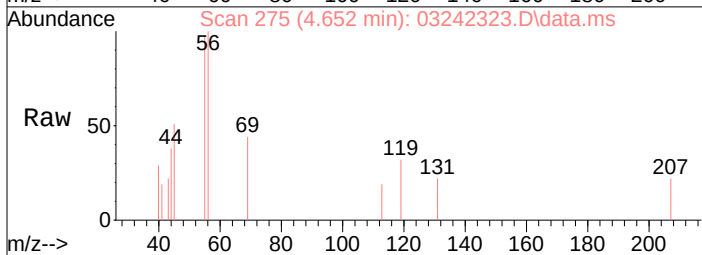
#11
 Acetonitrile
 Concen: 0.10 ng
 RT: 4.56 min Scan# 259
 Delta R.T. -0.017 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:48

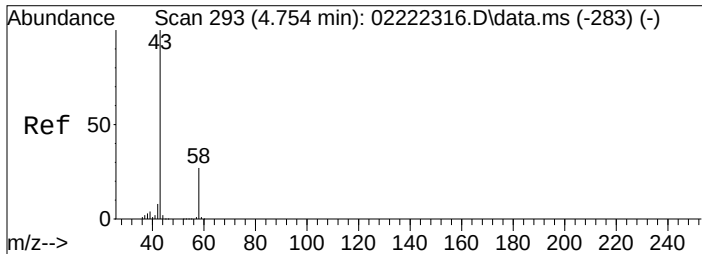
Tgt Ion:	41	Resp:	4421
Ion Ratio		Lower	Upper
41	100		
40	58.0	34.4	74.4



#12
 Acrolein
 Concen: 0.11 ng
 RT: 4.65 min Scan# 275
 Delta R.T. 0.006 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:48

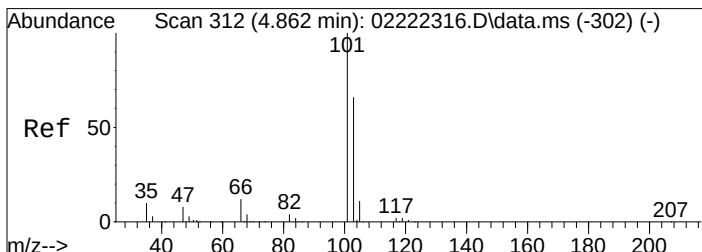
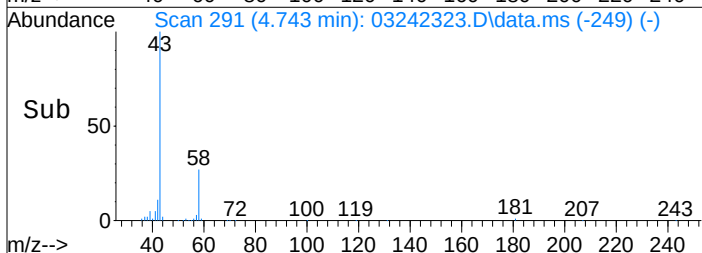
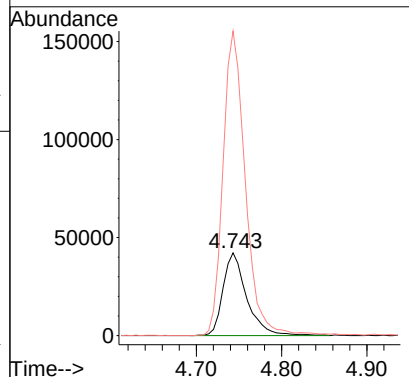
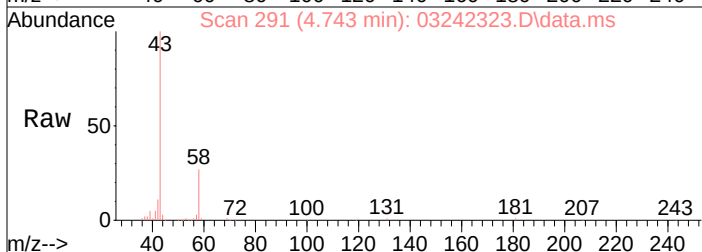
Tgt Ion:	56	Resp:	1522
Ion Ratio		Lower	Upper
56	100		
55	82.0	50.9	90.9





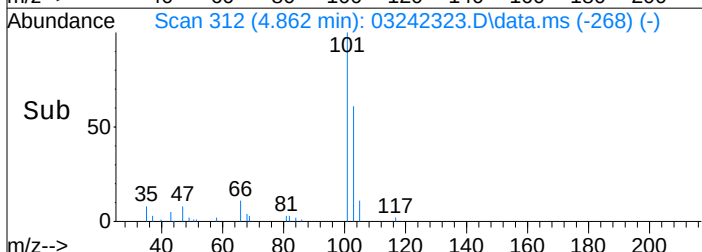
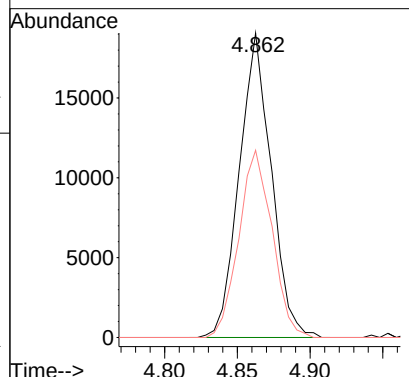
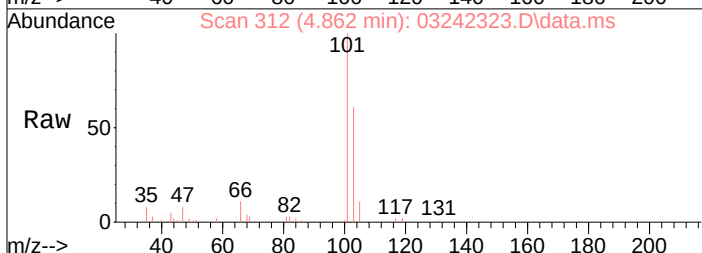
#13
Acetone
Concen: 5.59 ng
RT: 4.74 min Scan# 291
Delta R.T. -0.011 min
Lab File: 03242323.D
Acq: 24 Mar 2023 19:48

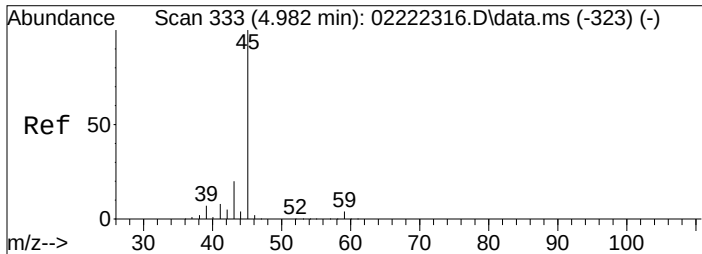
Tgt Ion: 58 Resp: 81615
Ion Ratio Lower Upper
58 100
43 348.4 337.8 397.8



#14
Trichlorofluoromethane
Concen: 0.73 ng
RT: 4.86 min Scan# 312
Delta R.T. 0.000 min
Lab File: 03242323.D
Acq: 24 Mar 2023 19:48

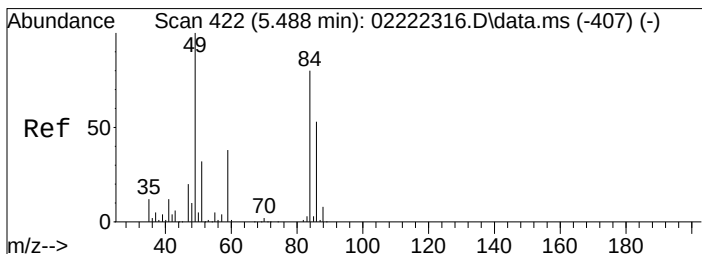
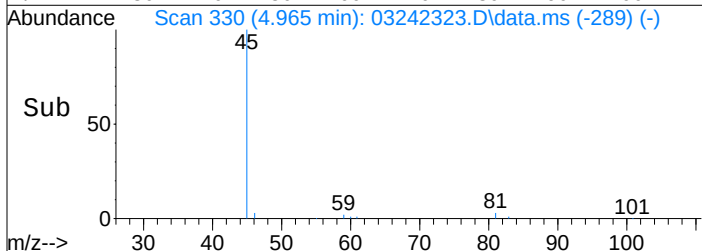
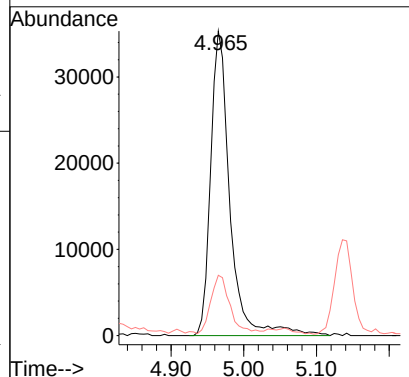
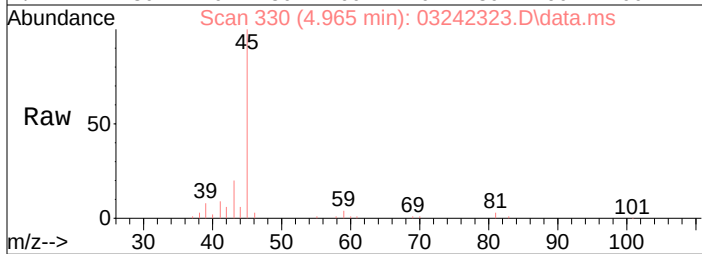
Tgt Ion: 101 Resp: 29166
Ion Ratio Lower Upper
101 100
103 64.0 45.2 85.2





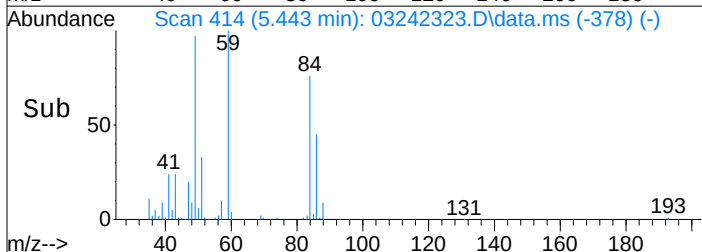
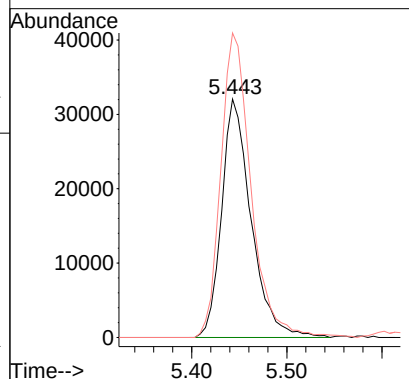
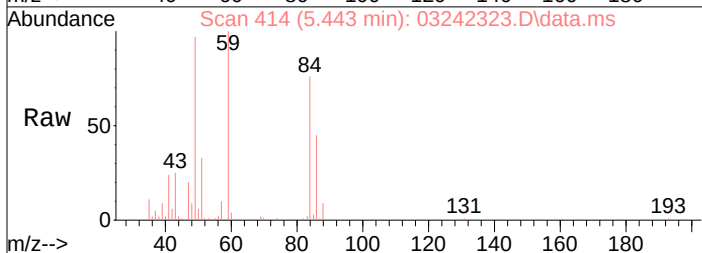
#15
 2-Propanol (Isopropanol)
 Concen: 1.10 ng
 RT: 4.96 min Scan# 330
 Delta R.T. -0.017 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:48

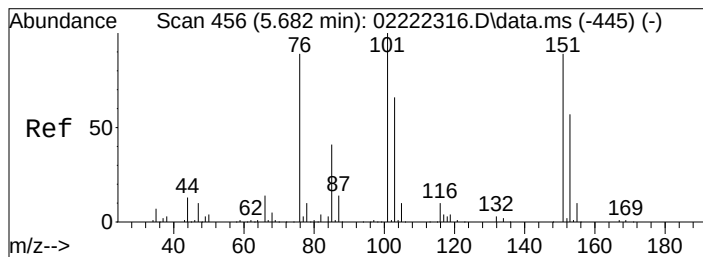
Tgt Ion: 45 Resp: 64955
 Ion Ratio Lower Upper
 45 100
 43 22.6 0.0 39.7



#19
 Methylene Chloride
 Concen: 3.23 ng
 RT: 5.44 min Scan# 414
 Delta R.T. -0.045 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:48

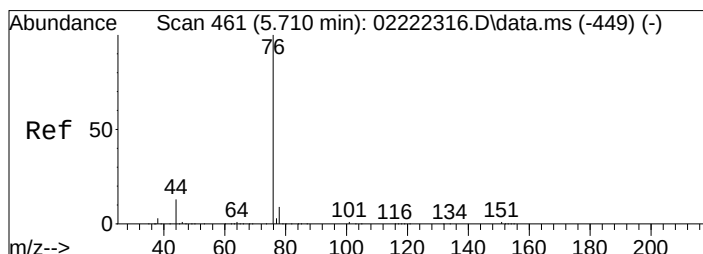
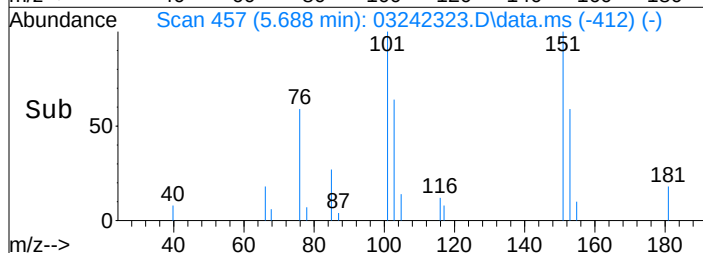
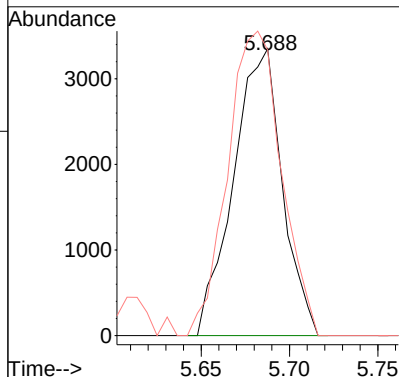
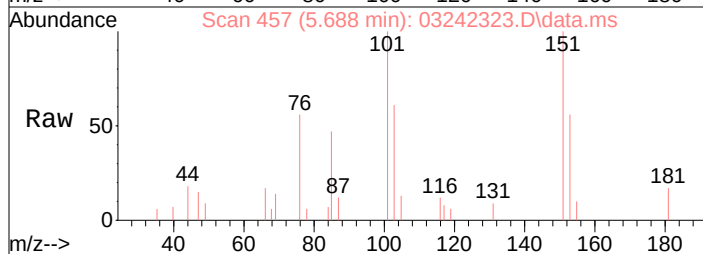
Tgt Ion: 84 Resp: 69149
 Ion Ratio Lower Upper
 84 100
 49 131.0 101.3 151.3





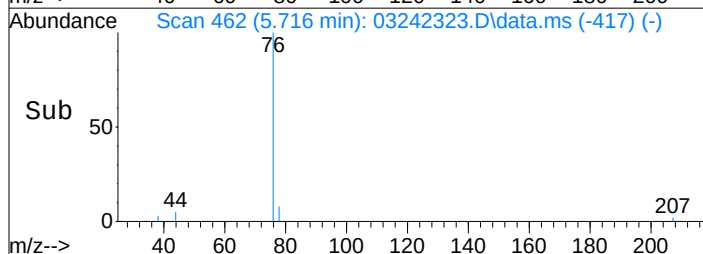
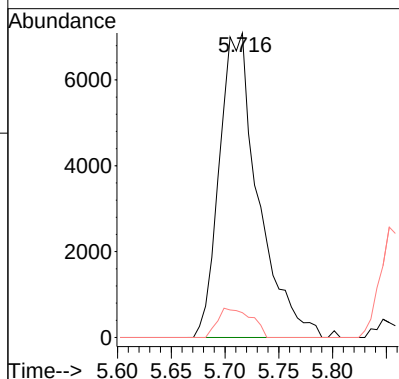
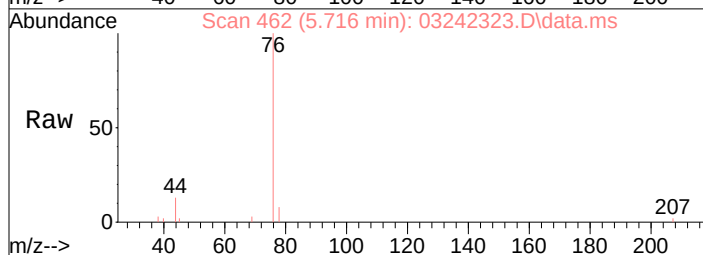
#21
 Trichlorotrifluoroethane
 Concen: 0.31 ng
 RT: 5.69 min Scan# 457
 Delta R.T. 0.006 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:48

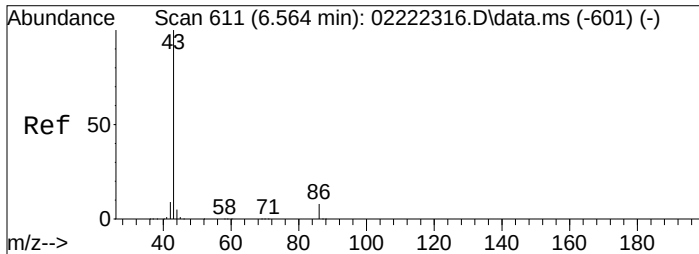
Tgt Ion: 151 Resp: 6462
 Ion Ratio Lower Upper
 151 100
 101 116.5 96.3 136.3



#22
 Carbon Disulfide
 Concen: 0.21 ng
 RT: 5.72 min Scan# 462
 Delta R.T. 0.006 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:48

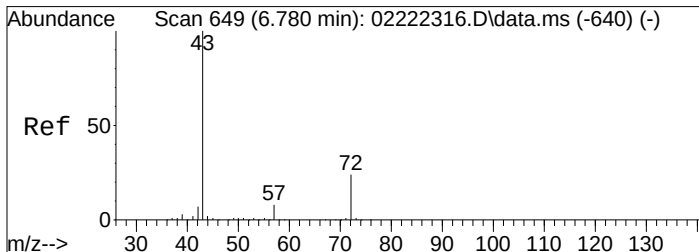
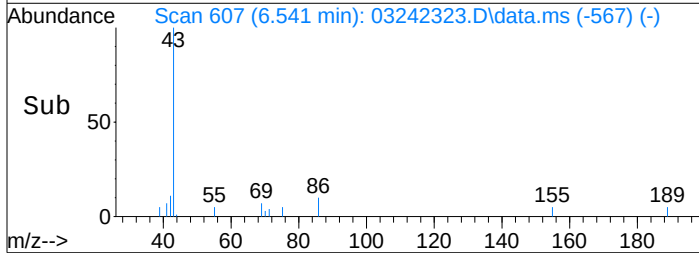
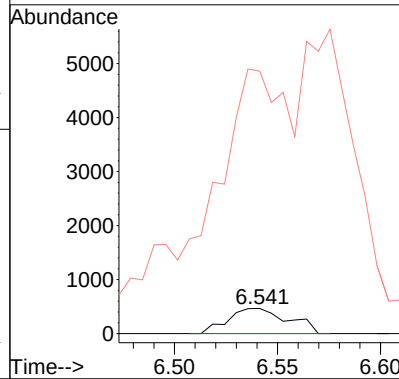
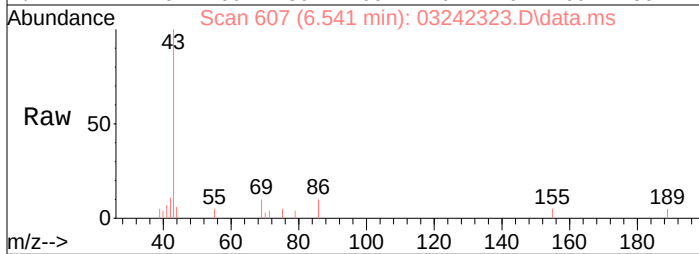
Tgt Ion: 76 Resp: 17793
 Ion Ratio Lower Upper
 76 100
 78 8.3 0.0 29.3





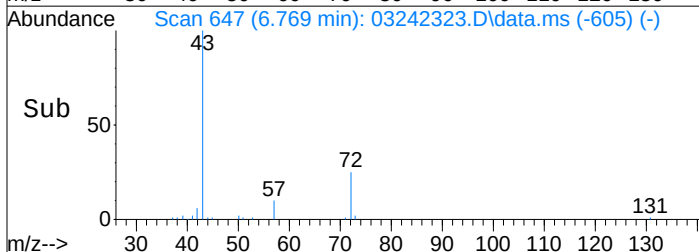
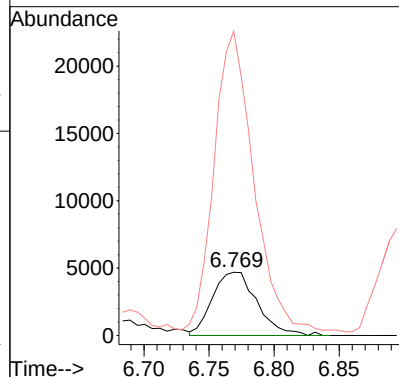
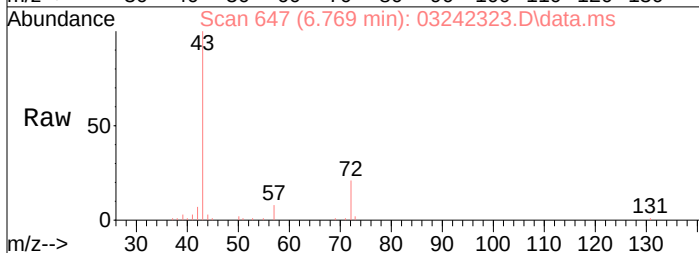
#26
 Vinyl Acetate
 Concen: 0.24 ng
 RT: 6.54 min Scan# 607
 Delta R.T. -0.023 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:48

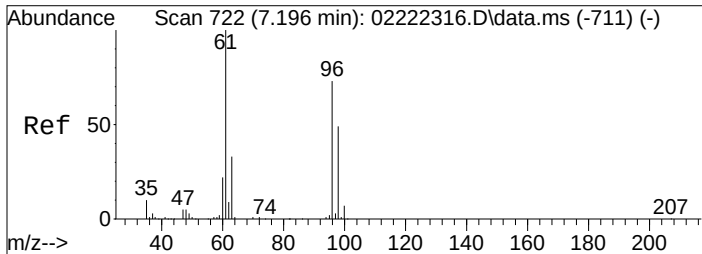
Tgt Ion: 86 Resp: 952
 Ion Ratio Lower Upper
 86 100
 43 1197.5 1292.1 1332.1#



#27
 2-Butanone (MEK)
 Concen: 0.86 ng
 RT: 6.77 min Scan# 647
 Delta R.T. -0.011 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:48

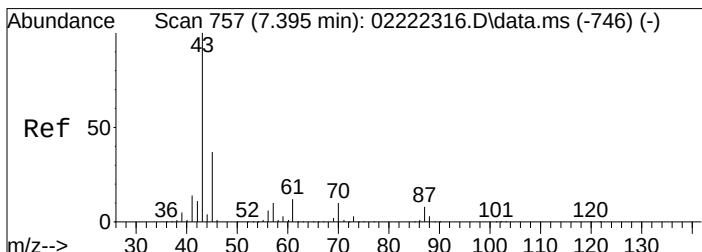
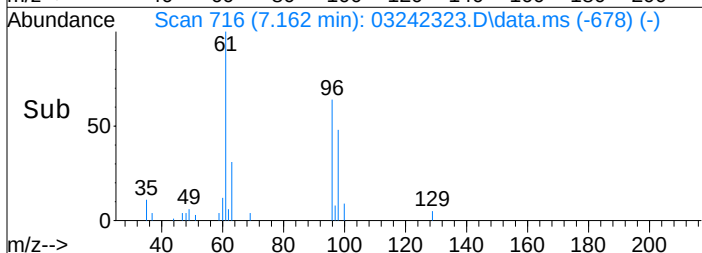
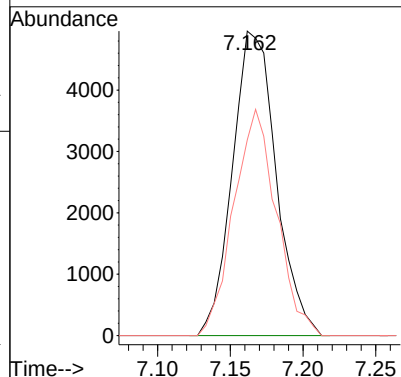
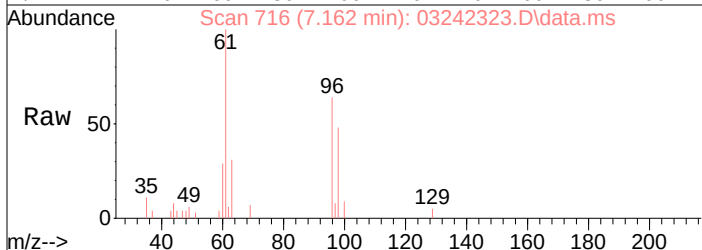
Tgt Ion: 72 Resp: 11197
 Ion Ratio Lower Upper
 72 100
 43 422.1 400.5 440.5





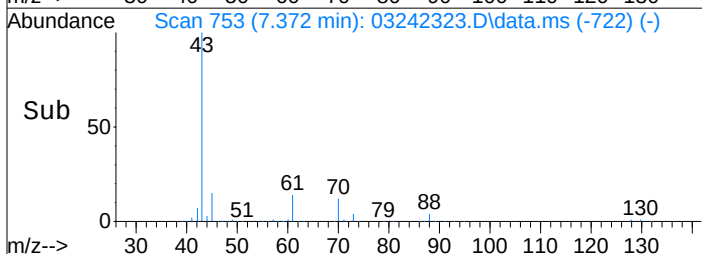
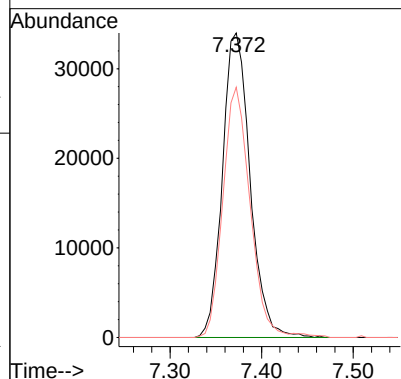
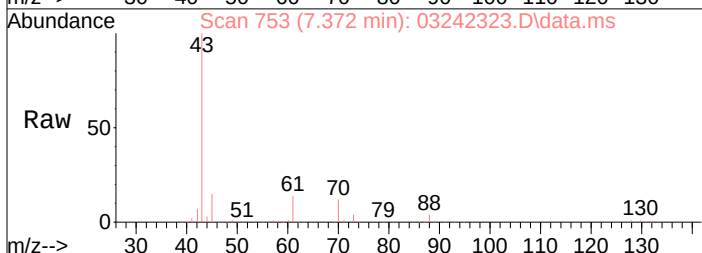
#28
 cis-1,2-Dichloroethene
 Concen: 0.34 ng
 RT: 7.16 min Scan# 716
 Delta R.T. -0.034 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:48

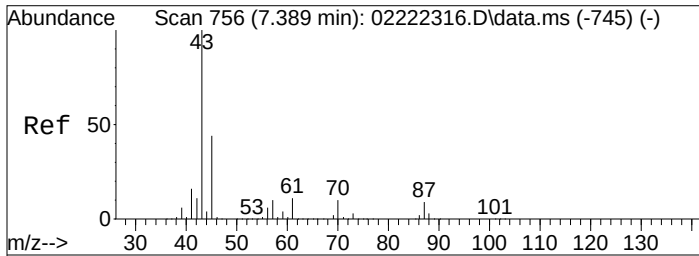
Tgt Ion:	61	Resp:	10374
Ion Ratio		Lower	Upper
61	100		
96	72.6	54.5	94.5



#30
 Ethyl Acetate
 Concen: 8.39 ng
 RT: 7.37 min Scan# 753
 Delta R.T. -0.023 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:48

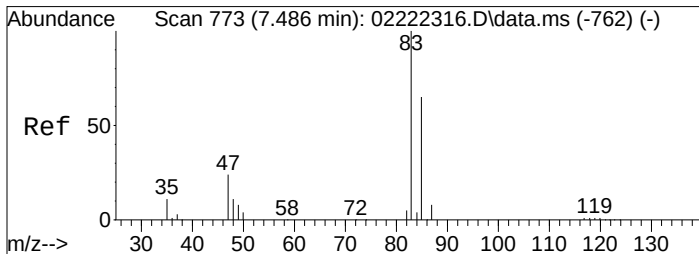
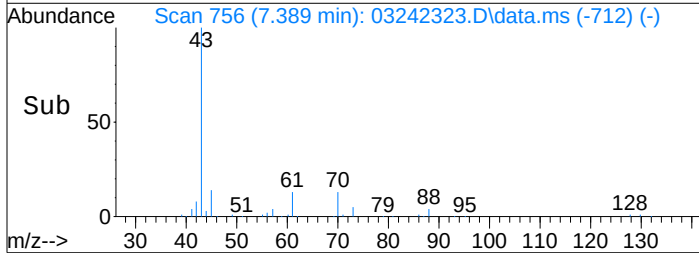
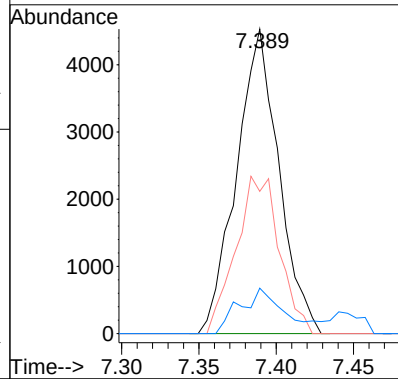
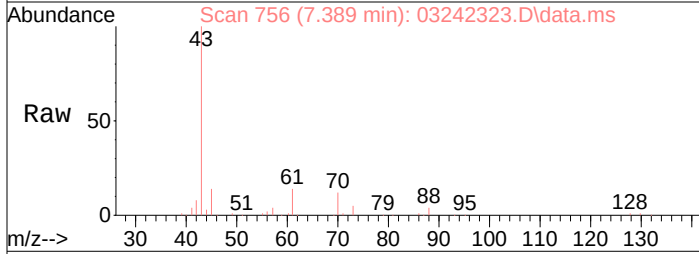
Tgt Ion:	61	Resp:	71548
Ion Ratio		Lower	Upper
61	100		
70	81.1	65.6	105.6





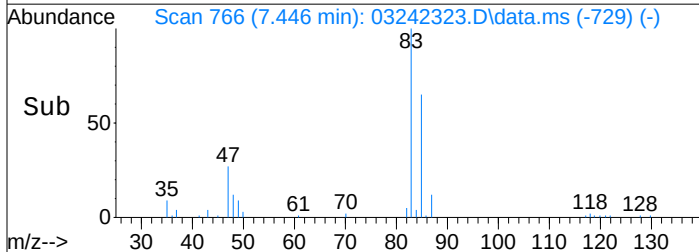
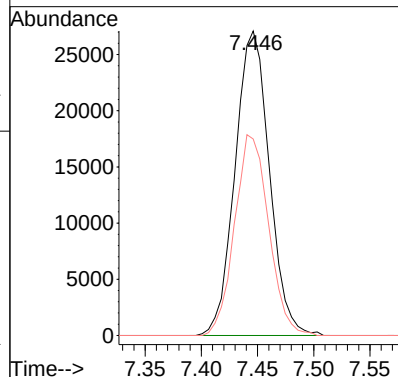
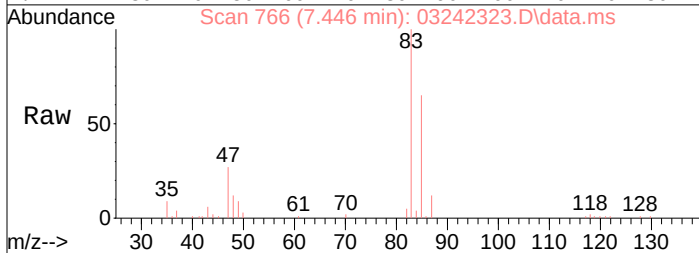
#31
n-Hexane
Concen: 0.26 ng
RT: 7.39 min Scan# 756
Delta R.T. 0.000 min
Lab File: 03242323.D
Acq: 24 Mar 2023 19:48

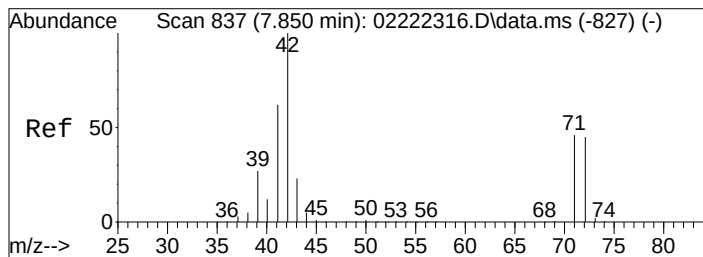
Tgt Ion: 57 Resp: 8641
Ion Ratio Lower Upper
57 100
56 52.9 44.0 66.0
86 16.3 11.5 17.3



#32
Chloroform
Concen: 1.49 ng
RT: 7.45 min Scan# 766
Delta R.T. -0.040 min
Lab File: 03242323.D
Acq: 24 Mar 2023 19:48

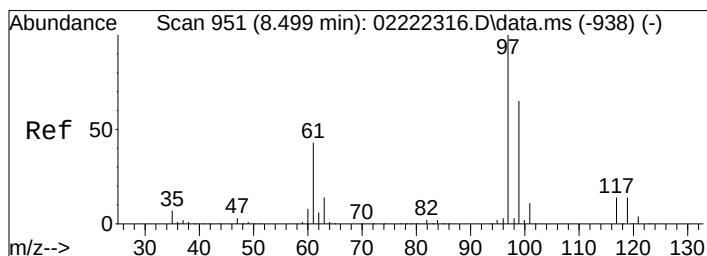
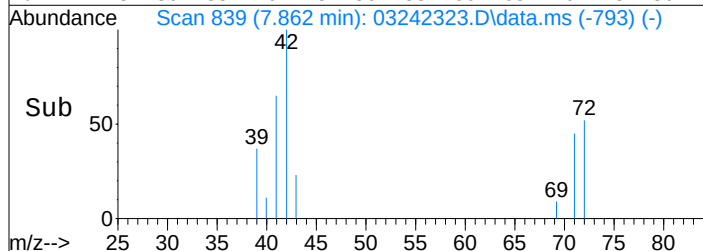
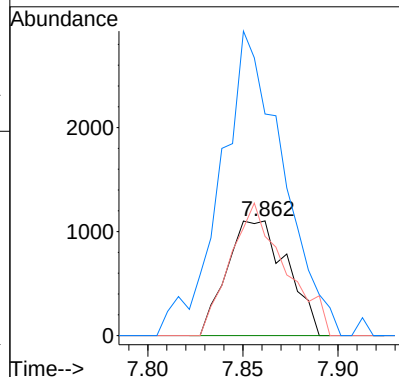
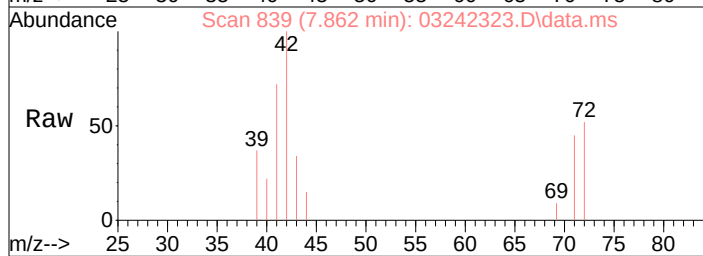
Tgt Ion: 83 Resp: 57707
Ion Ratio Lower Upper
83 100
85 65.4 45.0 85.0





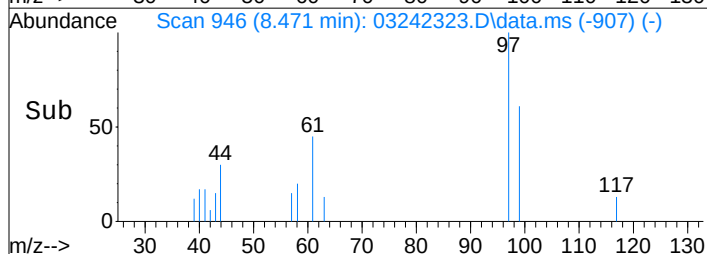
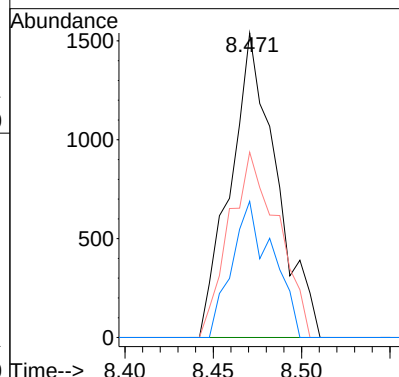
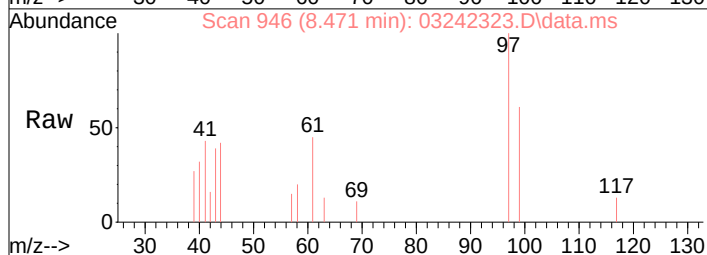
#34
 Tetrahydrofuran (THF)
 Concen: 0.18 ng
 RT: 7.86 min Scan# 839
 Delta R.T. 0.011 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:48

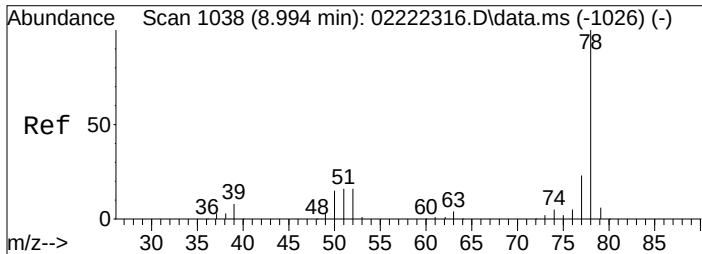
Tgt Ion: 72 Resp: 2423
 Ion Ratio Lower Upper
 72 100
 71 105.7 79.8 119.8
 42 276.5 199.0 239.0#



#38
 1,1,1-Trichloroethane
 Concen: 0.08 ng
 RT: 8.47 min Scan# 946
 Delta R.T. -0.028 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:48

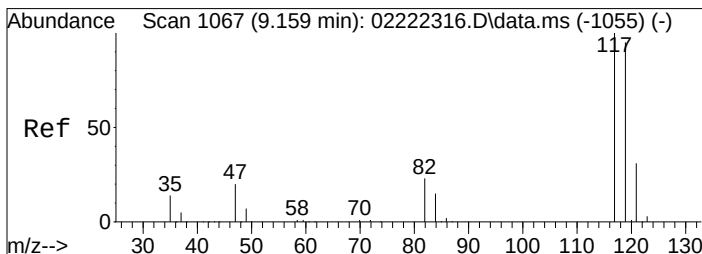
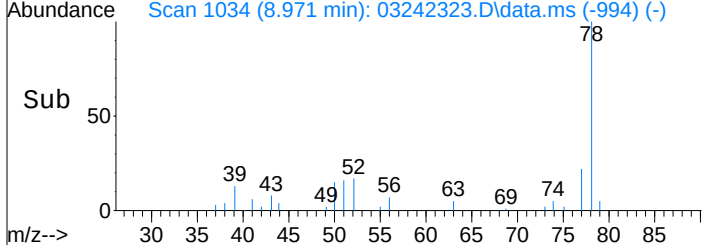
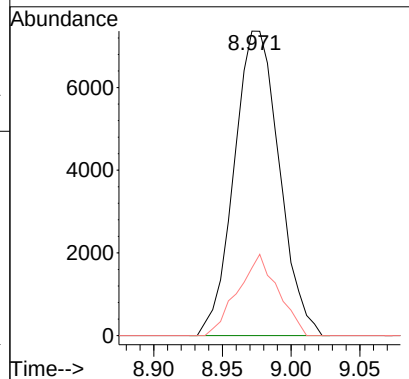
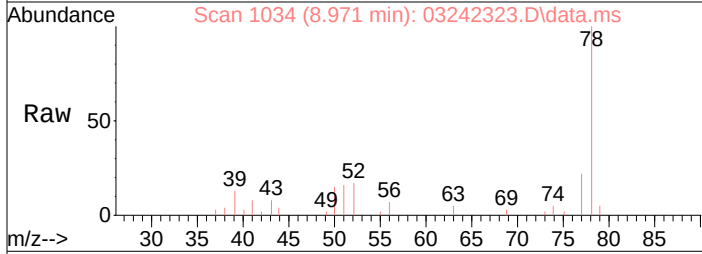
Tgt Ion: 97 Resp: 2783
 Ion Ratio Lower Upper
 97 100
 99 64.9 44.9 84.9
 61 39.7 23.5 63.5





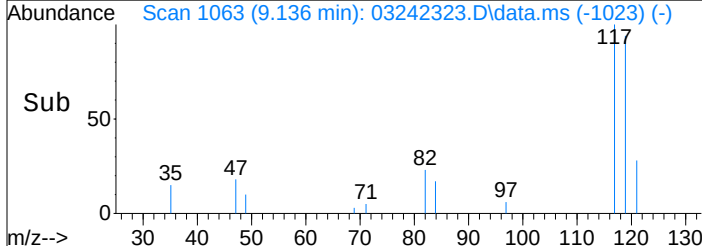
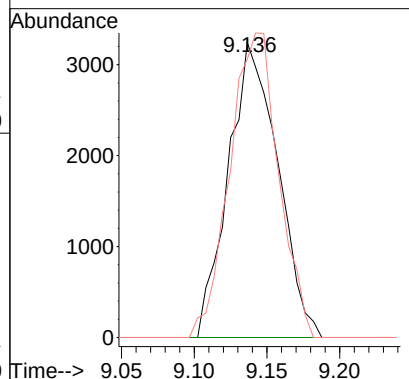
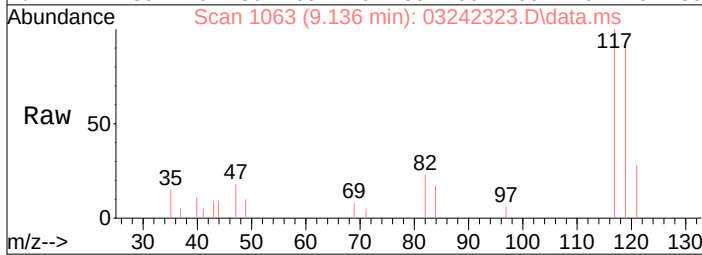
#41
Benzene
Concen: 0.20 ng
RT: 8.97 min Scan# 1034
Delta R.T. -0.023 min
Lab File: 03242323.D
Acq: 24 Mar 2023 19:48

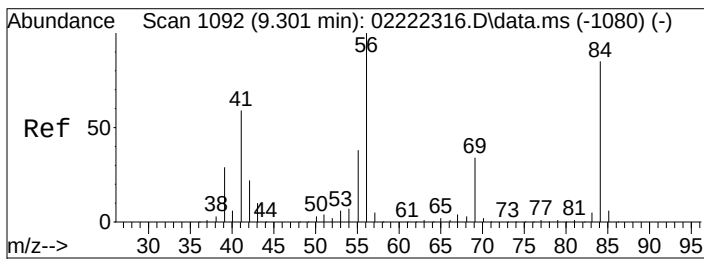
Tgt Ion: 78 Resp: 16844
Ion Ratio Lower Upper
78 100
77 23.8 3.7 43.7



#42
Carbon Tetrachloride
Concen: 0.25 ng
RT: 9.14 min Scan# 1063
Delta R.T. -0.023 min
Lab File: 03242323.D
Acq: 24 Mar 2023 19:48

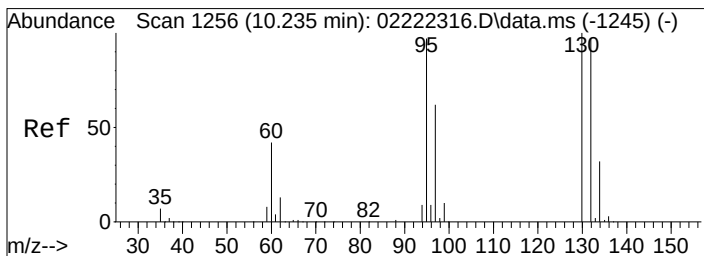
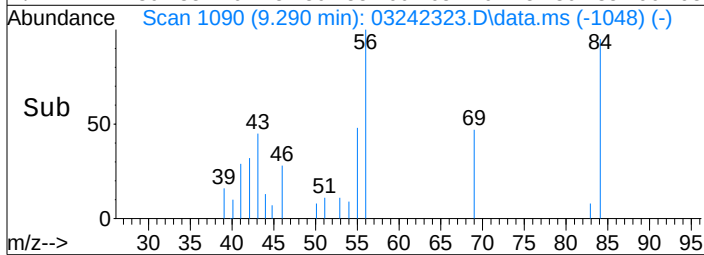
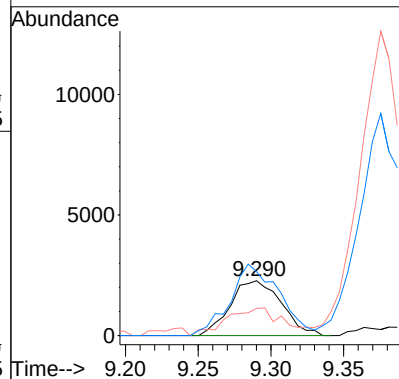
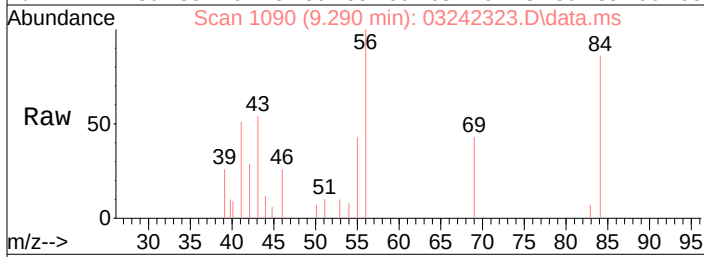
Tgt Ion: 117 Resp: 7660
Ion Ratio Lower Upper
117 100
119 102.2 75.7 115.7





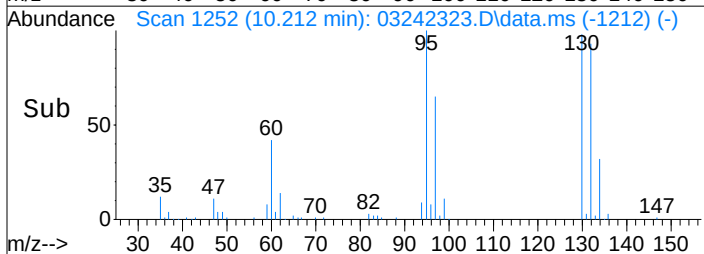
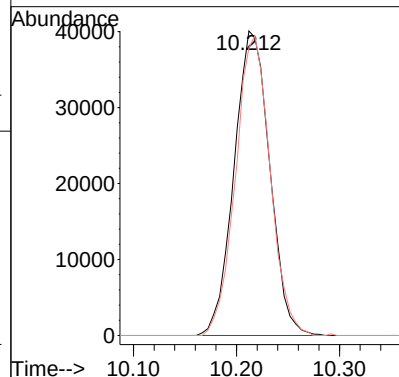
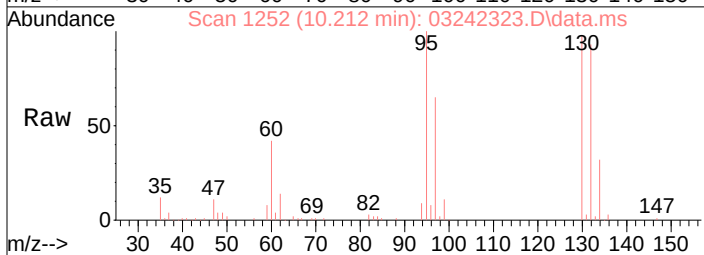
#43
Cyclohexane
Concen: 0.18 ng
RT: 9.29 min Scan# 1090
Delta R.T. -0.011 min
Lab File: 03242323.D
Acq: 24 Mar 2023 19:48

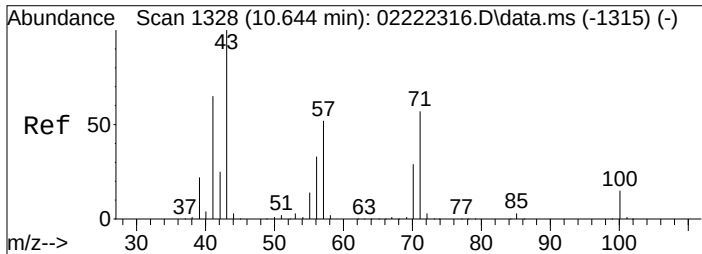
Tgt Ion: 84 Resp: 5572
Ion Ratio Lower Upper
84 100
69 56.8 20.0 60.0
56 124.6 98.5 138.5



#47
Trichloroethene
Concen: 3.98 ng
RT: 10.21 min Scan# 1252
Delta R.T. -0.023 min
Lab File: 03242323.D
Acq: 24 Mar 2023 19:48

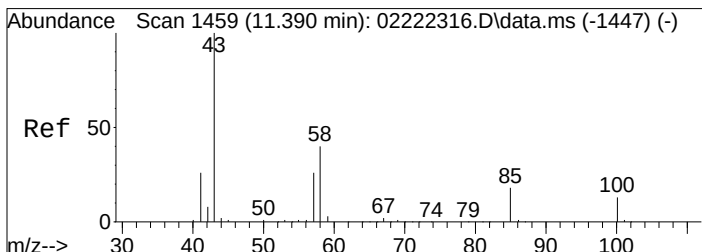
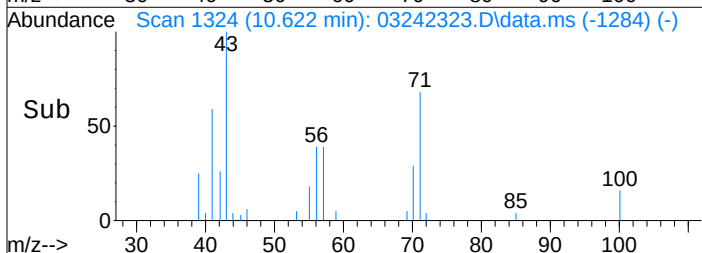
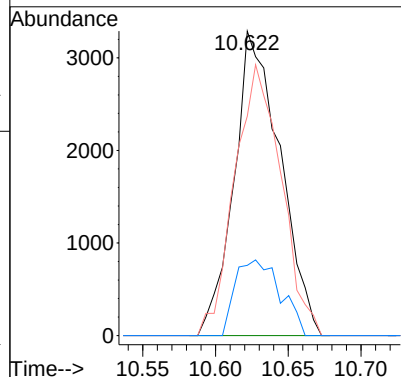
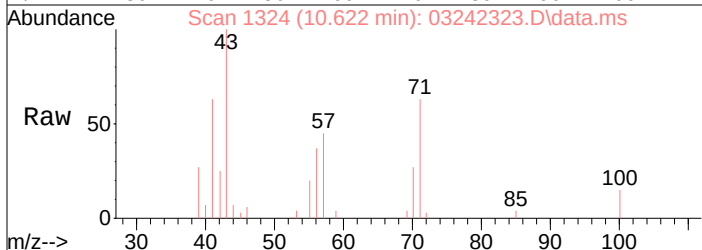
Tgt Ion: 130 Resp: 96272
Ion Ratio Lower Upper
130 100
132 95.7 76.3 116.3





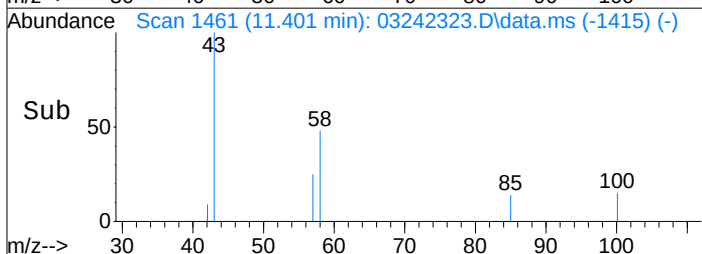
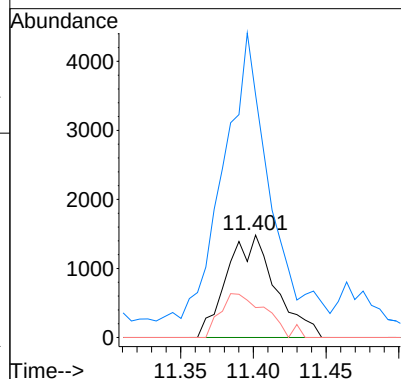
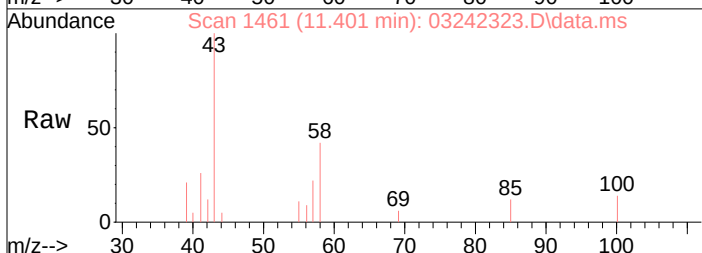
#51
n-Heptane
Concen: 0.36 ng
RT: 10.62 min Scan# 1324
Delta R.T. -0.023 min
Lab File: 03242323.D
Acq: 24 Mar 2023 19:48

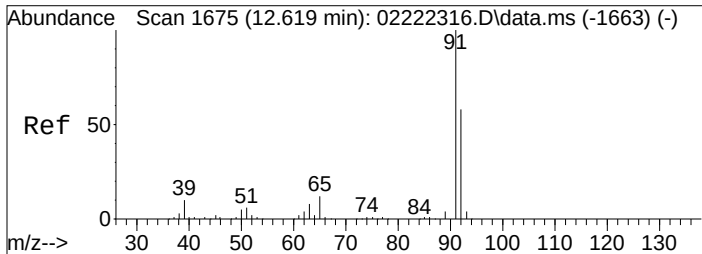
Tgt Ion: 71 Resp: 7243
Ion Ratio Lower Upper
71 100
57 89.7 71.7 111.7
100 24.3 5.8 45.8



#53
4-Methyl-2-pentanone
Concen: 0.19 ng
RT: 11.40 min Scan# 1461
Delta R.T. 0.011 min
Lab File: 03242323.D
Acq: 24 Mar 2023 19:48

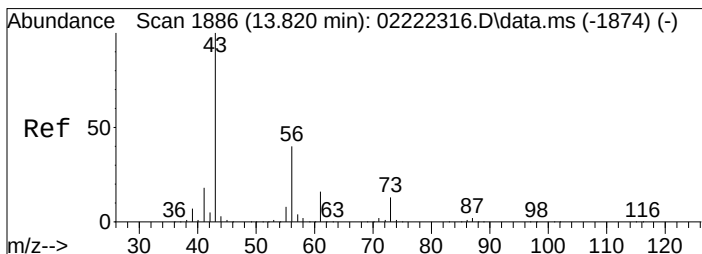
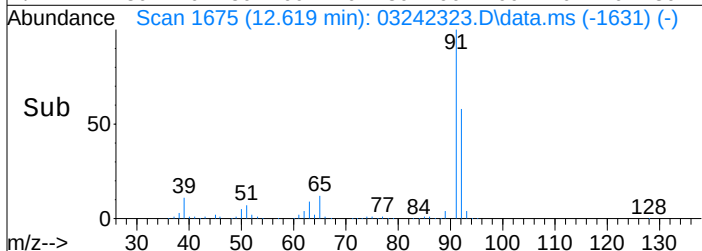
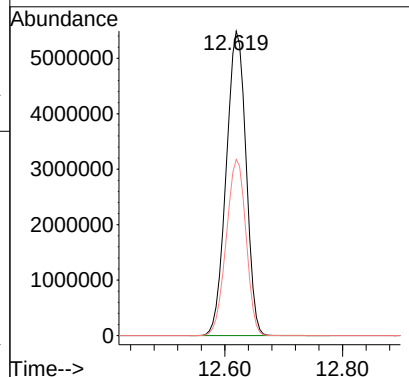
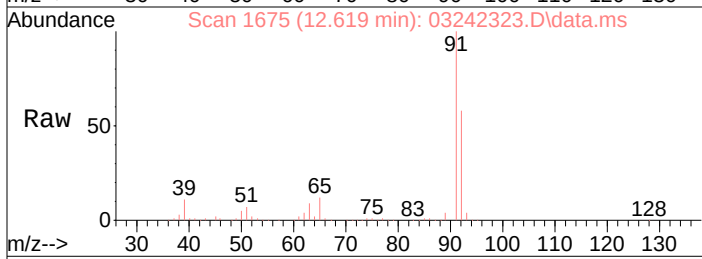
Tgt Ion: 58 Resp: 3453
Ion Ratio Lower Upper
58 100
85 40.5 38.6 58.0
43 276.8 202.2 303.2





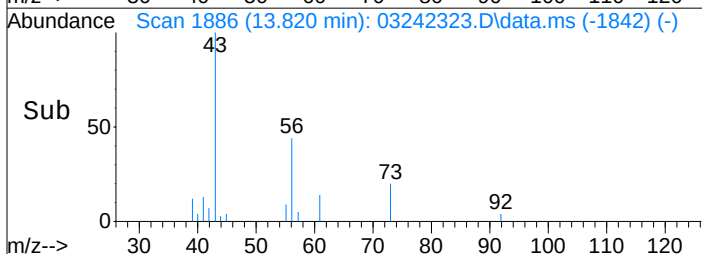
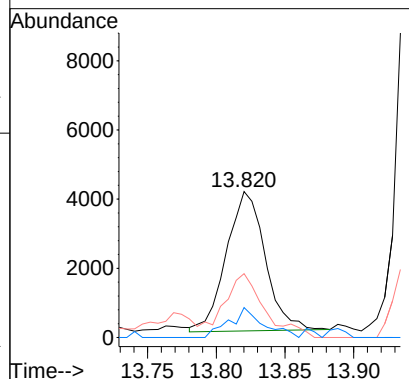
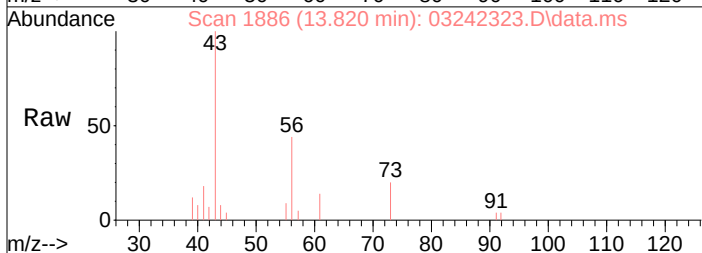
#58
Toluene
Concen: 129.16 ng
RT: 12.62 min Scan# 1675
Delta R.T. 0.000 min
Lab File: 03242323.D
Acq: 24 Mar 2023 19:48

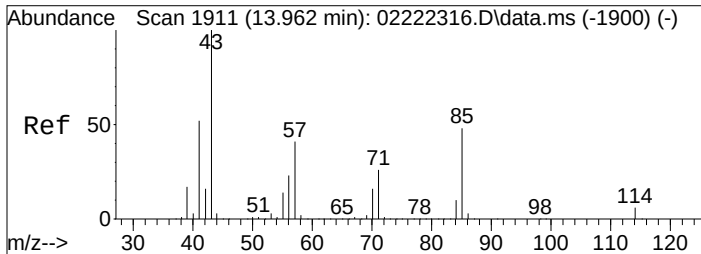
Tgt Ion: 91 Resp:12766579
Ion Ratio Lower Upper
91 100
92 57.9 38.0 78.0



#62
n-Butyl Acetate
Concen: 0.15 ng
RT: 13.82 min Scan# 1886
Delta R.T. 0.000 min
Lab File: 03242323.D
Acq: 24 Mar 2023 19:48

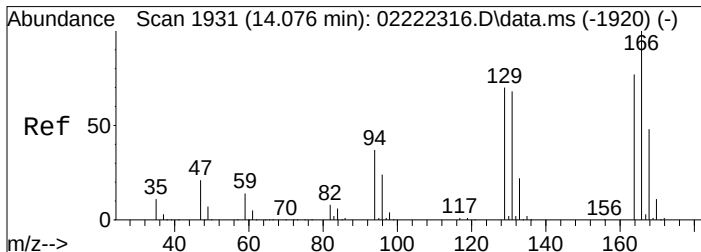
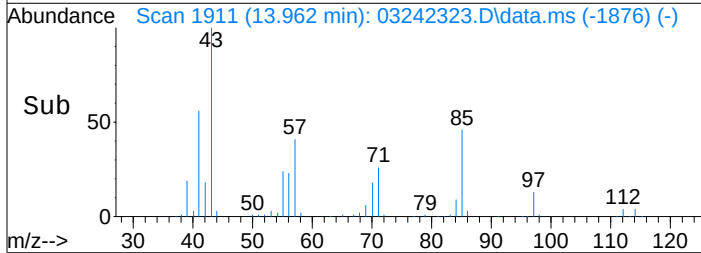
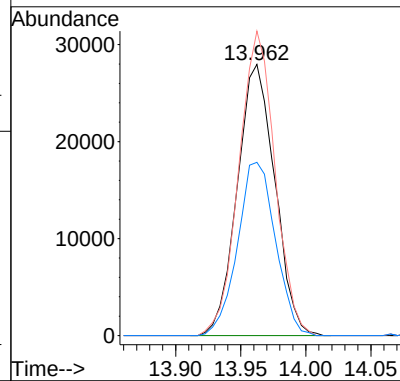
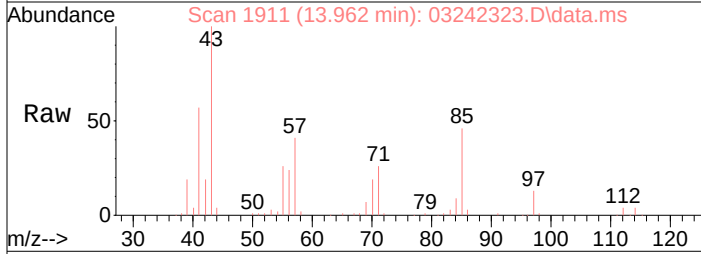
Tgt Ion: 43 Resp: 7937
Ion Ratio Lower Upper
43 100
56 47.6 20.0 60.0
73 18.5 0.0 33.2





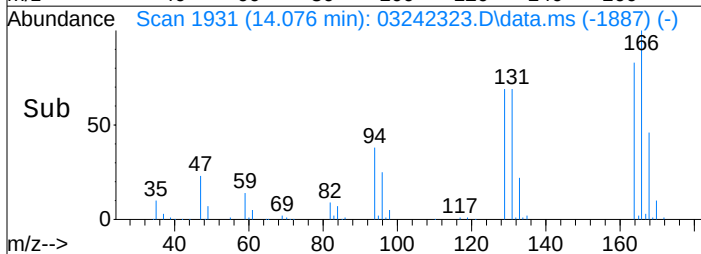
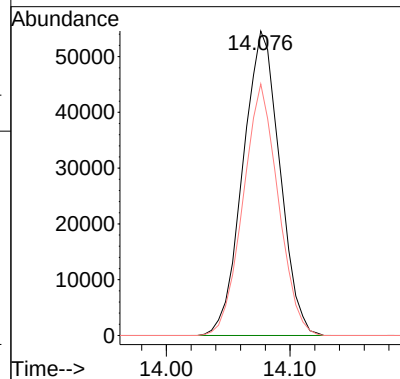
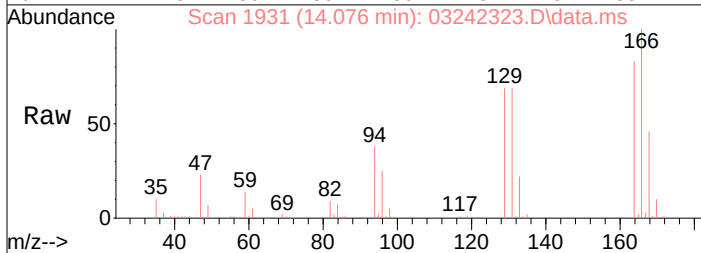
#63
n-Octane
Concen: 2.89 ng
RT: 13.96 min Scan# 1911
Delta R.T. 0.000 min
Lab File: 03242323.D
Acq: 24 Mar 2023 19:48

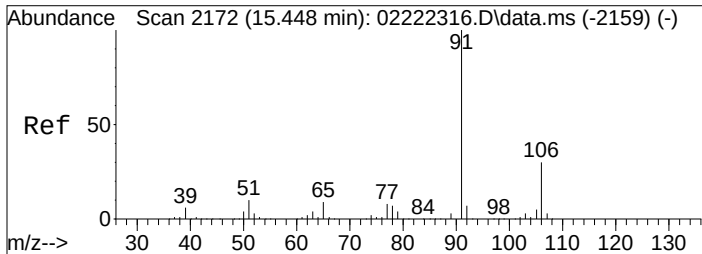
Tgt Ion:	57	Resp:	56212
Ion Ratio		Lower	Upper
57	100		
85	107.7	94.1	141.1
71	64.4	52.6	79.0



#64
Tetrachloroethene
Concen: 3.77 ng
RT: 14.08 min Scan# 1931
Delta R.T. 0.000 min
Lab File: 03242323.D
Acq: 24 Mar 2023 19:48

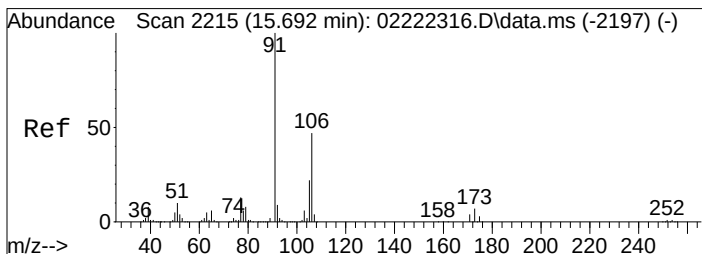
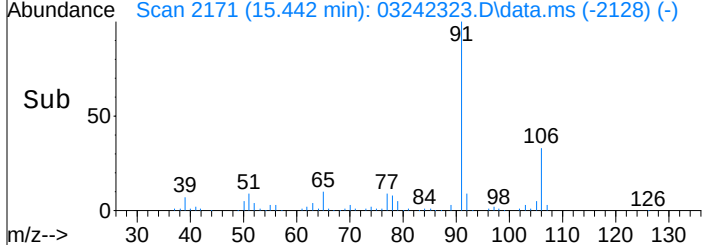
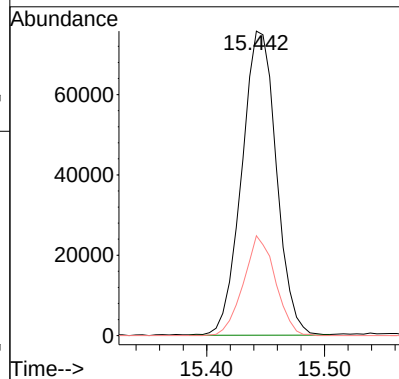
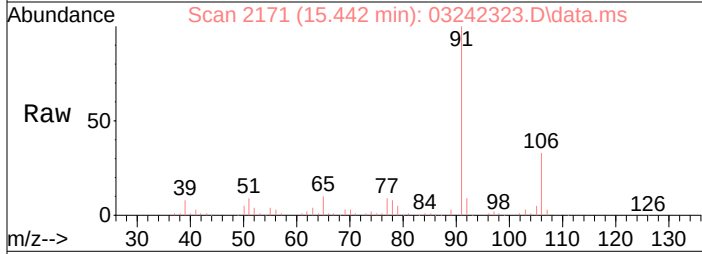
Tgt Ion:	166	Resp:	113315
Ion Ratio		Lower	Upper
166	100		
164	78.8	57.3	97.3





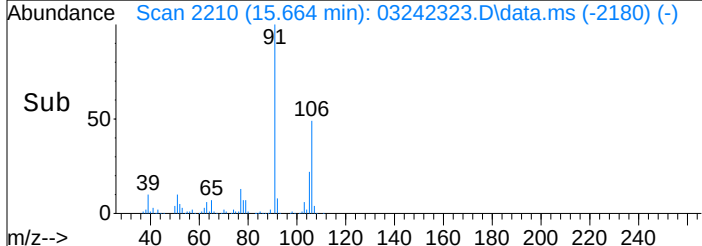
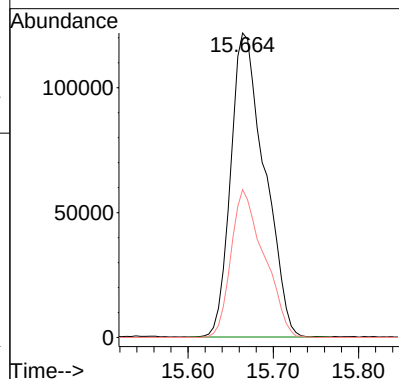
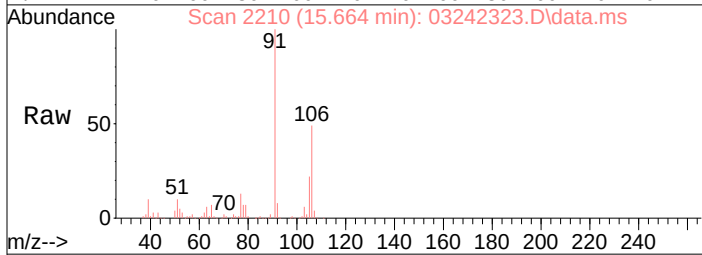
#66
Ethylbenzene
Concen: 1.31 ng
RT: 15.44 min Scan# 2171
Delta R.T. -0.006 min
Lab File: 03242323.D
Acq: 24 Mar 2023 19:48

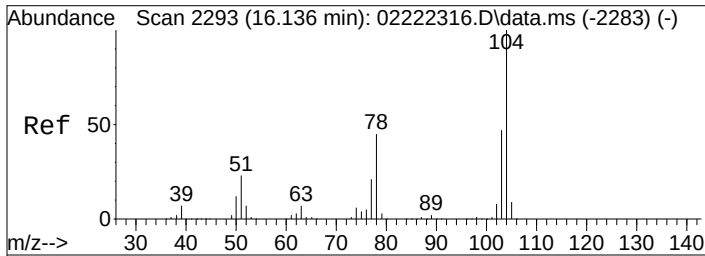
Tgt Ion:	91	Resp:	154837
Ion Ratio	Lower	Upper	
91	100		
106	30.3	10.4	50.4



#67
m- & p-Xylenes
Concen: 3.54 ng
RT: 15.66 min Scan# 2210
Delta R.T. -0.028 min
Lab File: 03242323.D
Acq: 24 Mar 2023 19:48

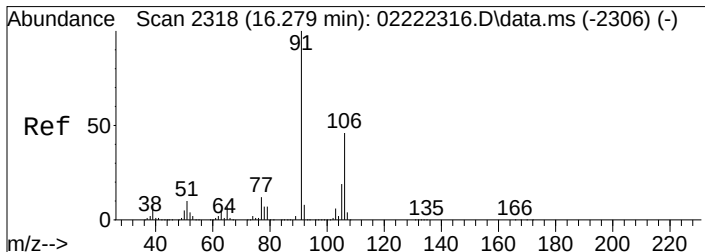
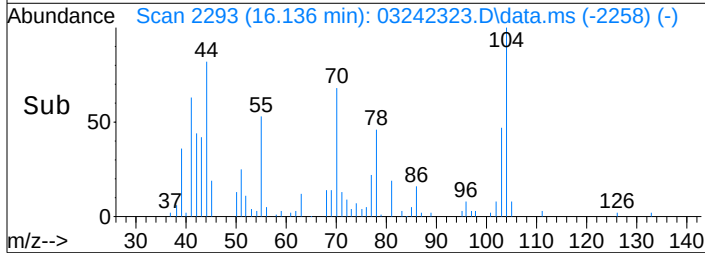
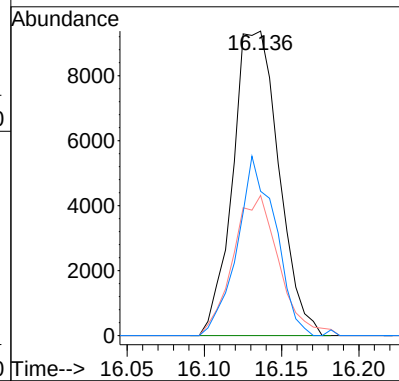
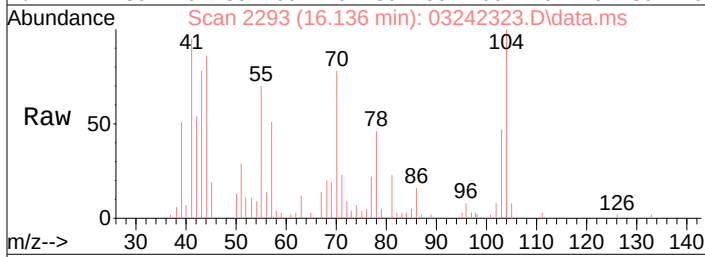
Tgt Ion:	91	Resp:	336199
Ion Ratio	Lower	Upper	
91	100		
106	47.6	26.2	66.2





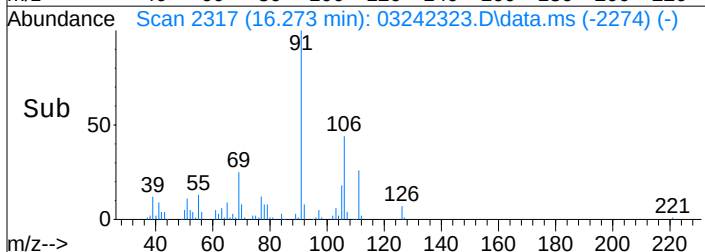
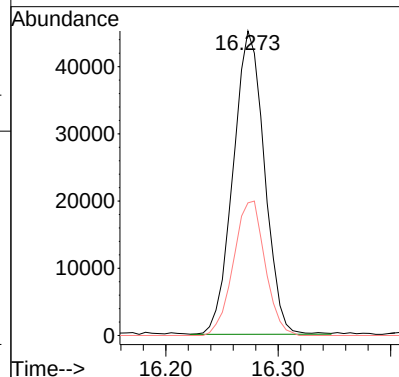
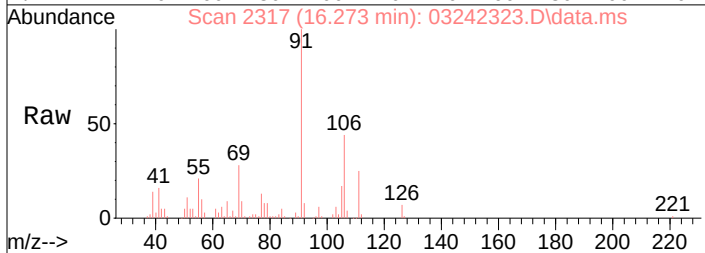
#69
Styrene
Concen: 0.30 ng
RT: 16.14 min Scan# 2293
Delta R.T. 0.000 min
Lab File: 03242323.D
Acq: 24 Mar 2023 19:48

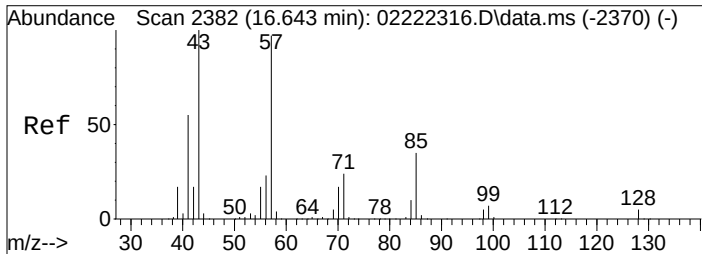
Tgt Ion: 104 Resp: 19442
Ion Ratio Lower Upper
104 100
78 45.8 24.7 64.7
103 49.0 27.8 67.8



#70
o-Xylene
Concen: 0.96 ng
RT: 16.27 min Scan# 2317
Delta R.T. -0.006 min
Lab File: 03242323.D
Acq: 24 Mar 2023 19:48

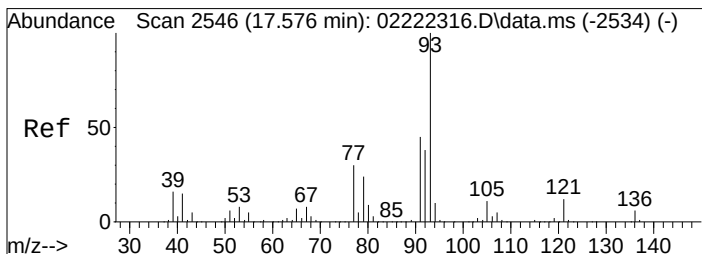
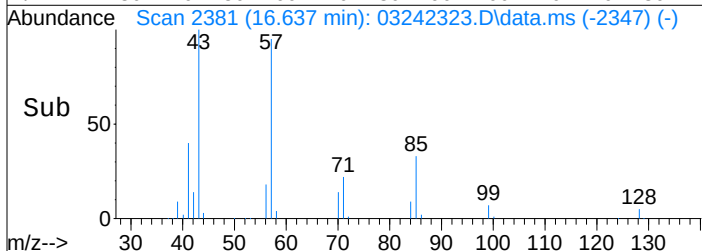
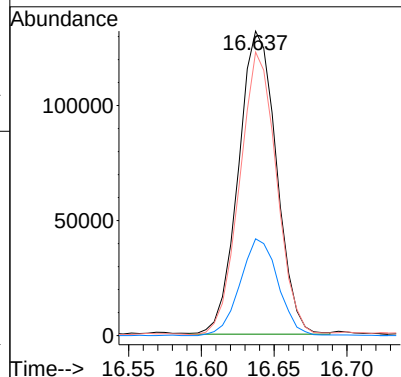
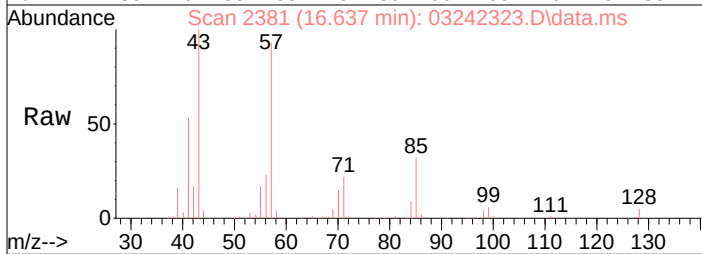
Tgt Ion: 91 Resp: 87370
Ion Ratio Lower Upper
91 100
106 44.7 25.4 65.4





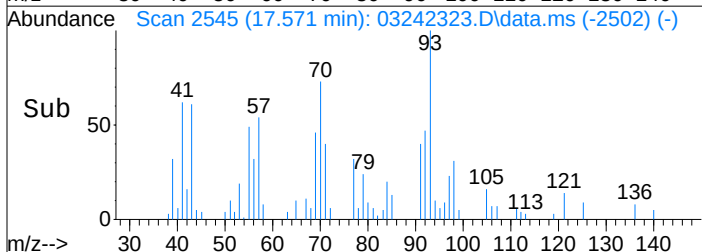
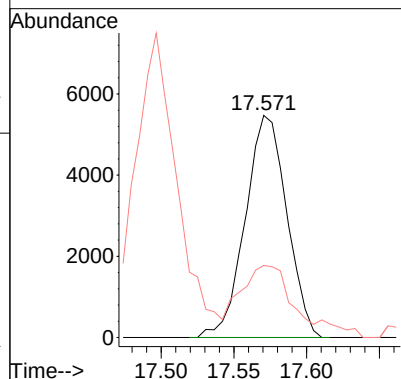
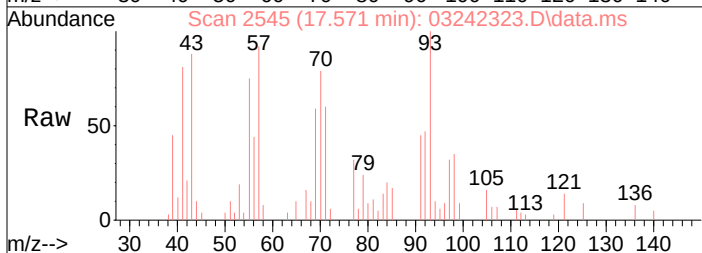
#71
n-Nonane
Concen: 5.45 ng
RT: 16.64 min Scan# 2381
Delta R.T. -0.006 min
Lab File: 03242323.D
Acq: 24 Mar 2023 19:48

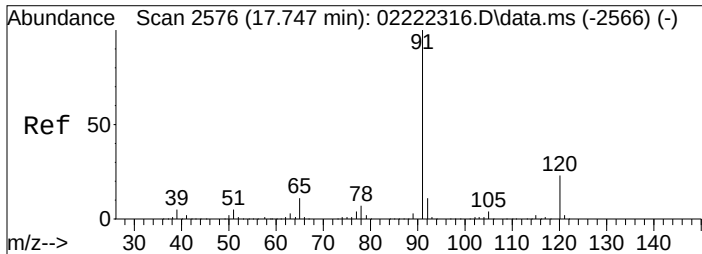
Tgt Ion:	43	Resp:	239536
Ion Ratio	Lower	Upper	
43	100		
57	90.5	74.2	114.2
85	32.0	14.2	54.2



#75
alpha-Pinene
Concen: 0.21 ng
RT: 17.57 min Scan# 2545
Delta R.T. -0.006 min
Lab File: 03242323.D
Acq: 24 Mar 2023 19:48

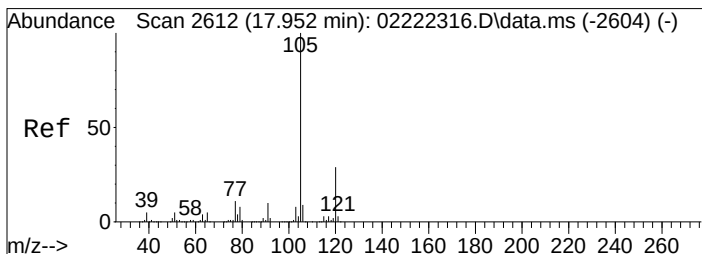
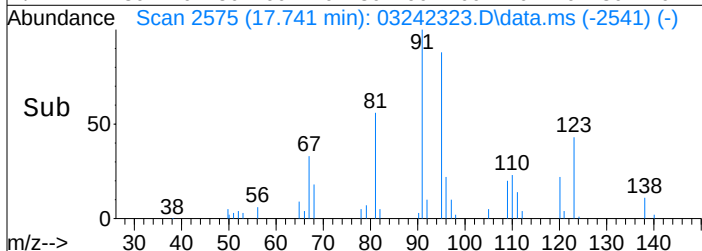
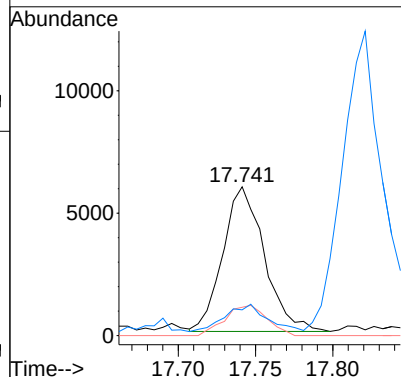
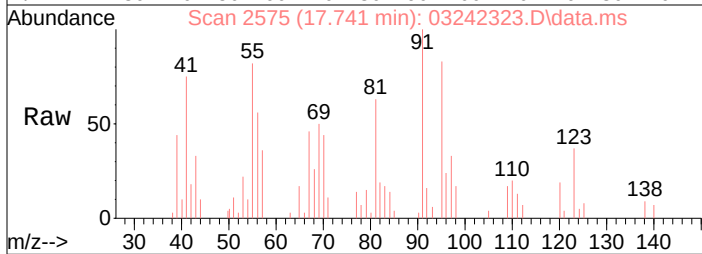
Tgt Ion:	93	Resp:	10865
Ion Ratio	Lower	Upper	
93	100		
77	43.8	11.1	51.1





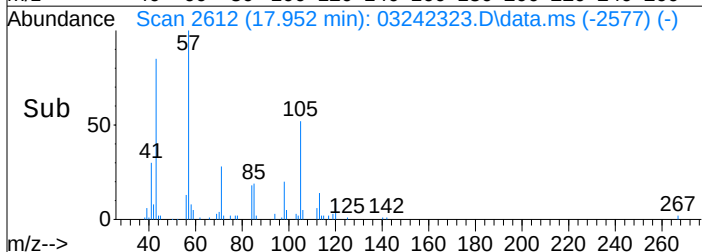
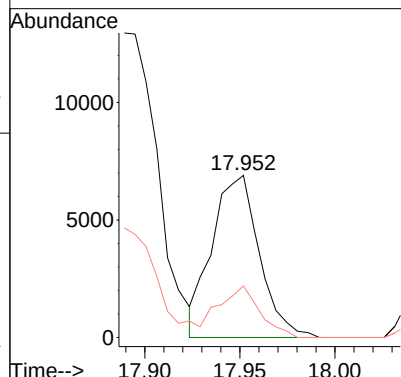
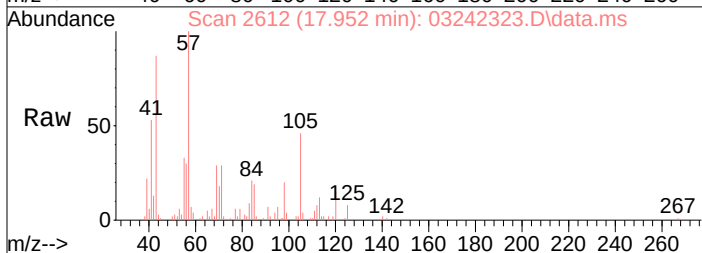
#76
 n-Propylbenzene
 Concen: 0.08 ng
 RT: 17.74 min Scan# 2575
 Delta R.T. -0.006 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:48

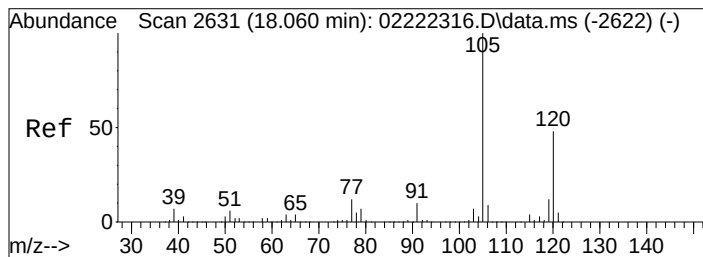
Tgt Ion:	91	Resp:	11085
Ion Ratio	Lower	Upper	
91	100		
120	21.2	2.7	42.7
65	18.8	0.0	30.7



#78
 4-Ethyltoluene
 Concen: 0.11 ng
 RT: 17.95 min Scan# 2612
 Delta R.T. 0.000 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:48

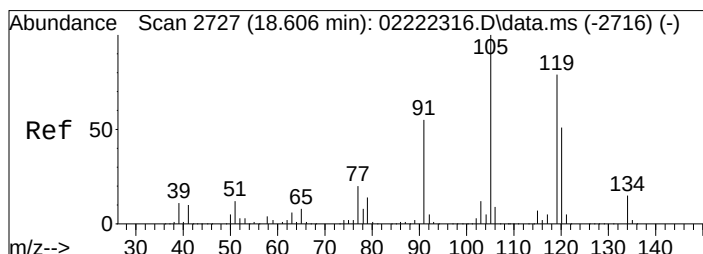
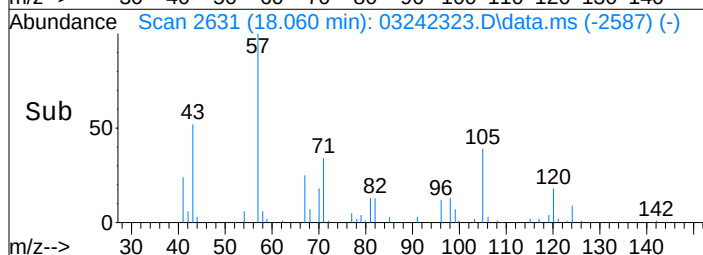
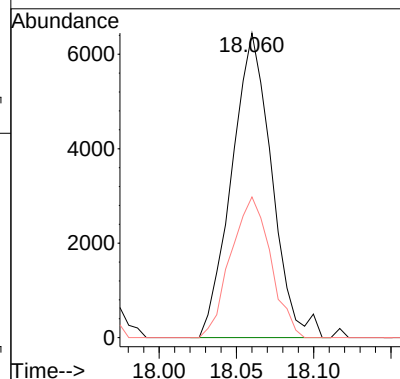
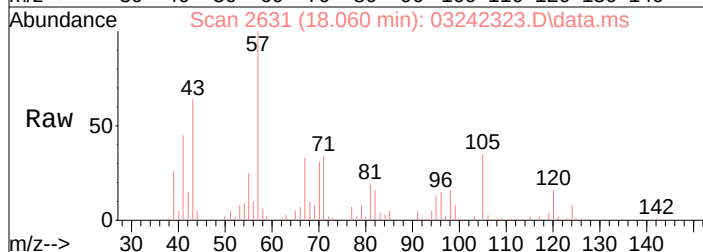
Tgt Ion:	105	Resp:	11926
Ion Ratio	Lower	Upper	
105	100		
120	27.5	9.1	49.1





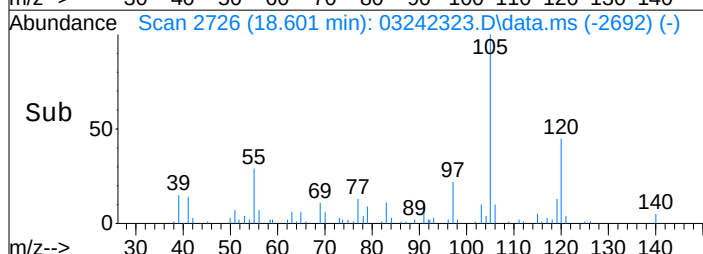
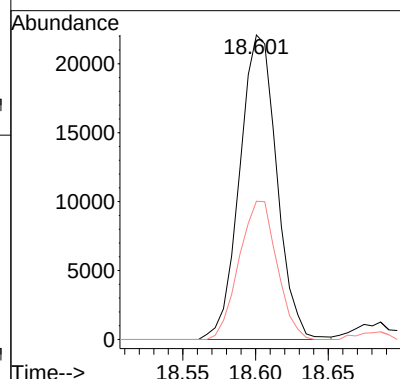
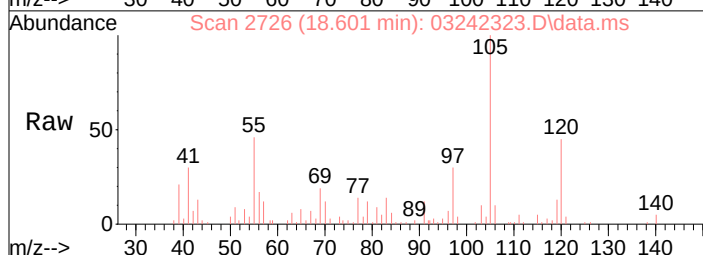
#79
 1,3,5-Trimethylbenzene
 Concen: 0.12 ng
 RT: 18.06 min Scan# 2631
 Delta R.T. 0.000 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:48

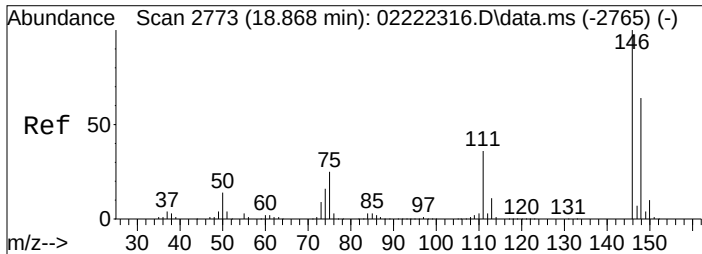
Tgt Ion:105 Resp: 11603
 Ion Ratio Lower Upper
 105 100
 120 46.1 28.4 68.4



#82
 1,2,4-Trimethylbenzene
 Concen: 0.42 ng
 RT: 18.60 min Scan# 2726
 Delta R.T. -0.006 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:48

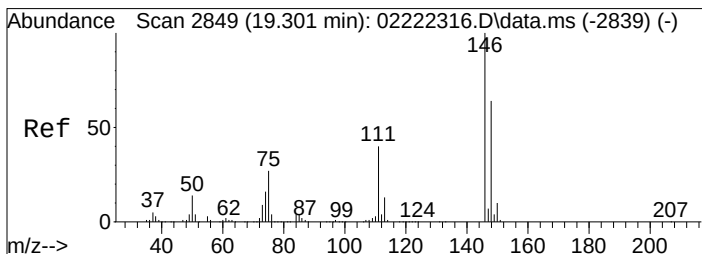
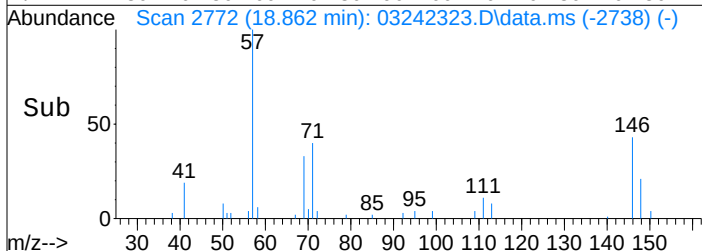
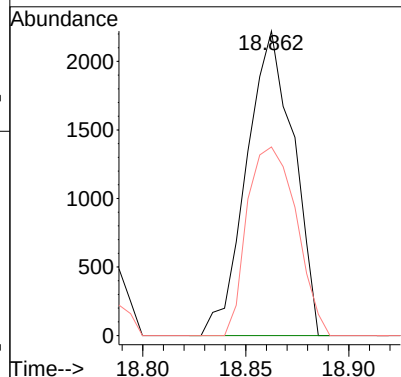
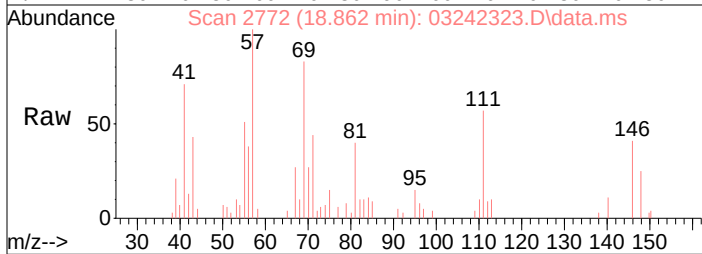
Tgt Ion:105 Resp: 39160
 Ion Ratio Lower Upper
 105 100
 120 46.3 32.8 72.8





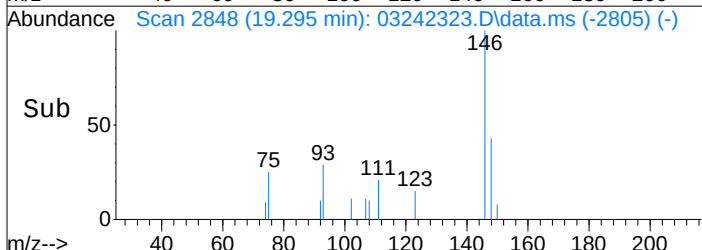
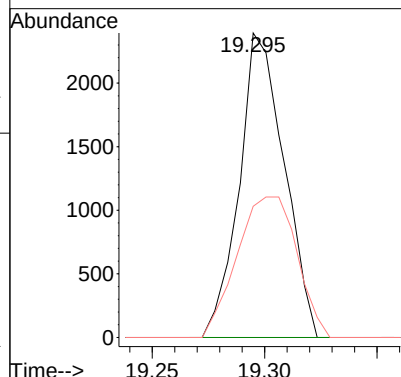
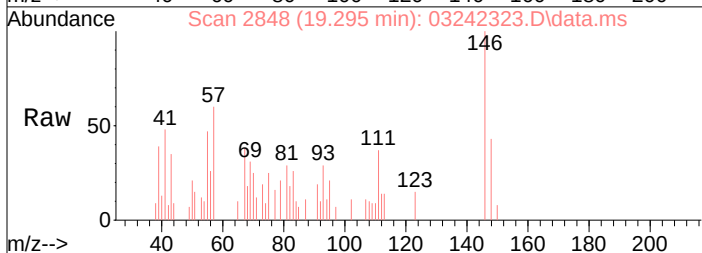
#86
 1,4-Dichlorobenzene
 Concen: 0.06 ng
 RT: 18.86 min Scan# 2772
 Delta R.T. -0.006 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:48

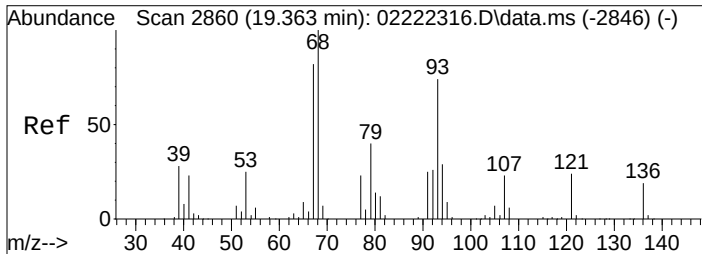
Tgt Ion:146 Resp: 3518
 Ion Ratio Lower Upper
 146 100
 148 64.9 44.7 84.7



#90
 1,2-Dichlorobenzene
 Concen: 0.06 ng
 RT: 19.29 min Scan# 2848
 Delta R.T. -0.006 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:48

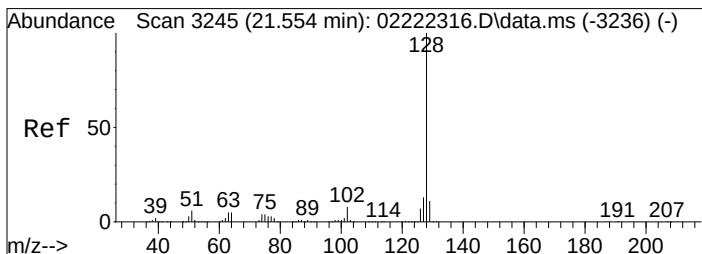
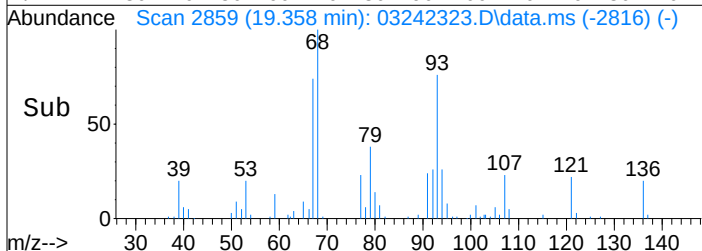
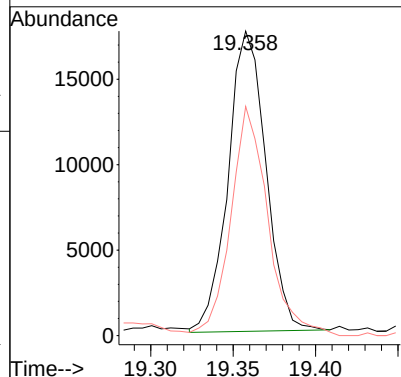
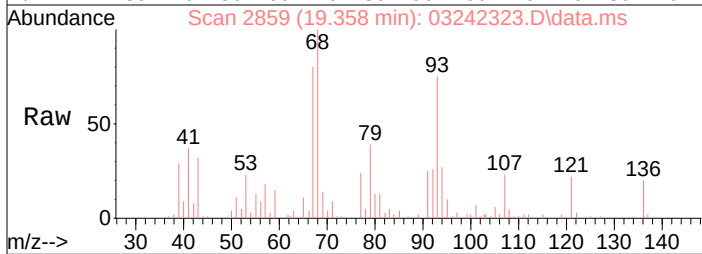
Tgt Ion:146 Resp: 3319
 Ion Ratio Lower Upper
 146 100
 148 61.9 44.4 84.4





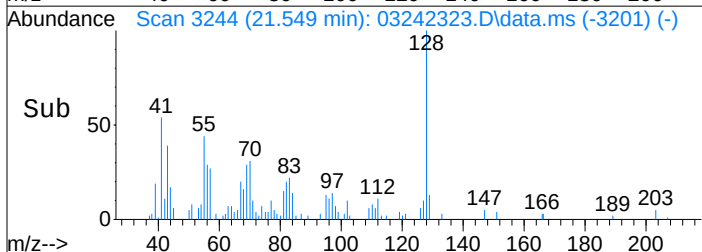
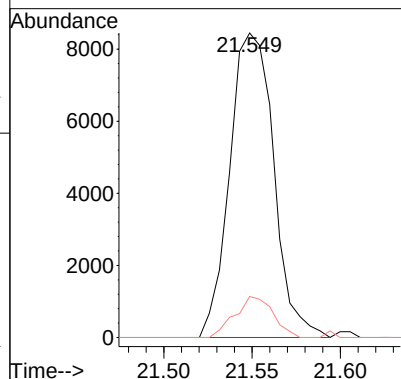
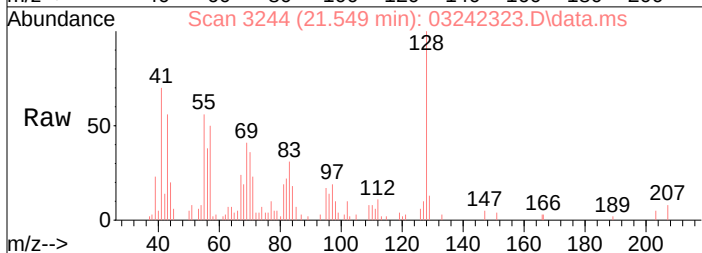
#91
d-Limonene
Concen: 0.90 ng
RT: 19.36 min Scan# 2859
Delta R.T. -0.006 min
Lab File: 03242323.D
Acq: 24 Mar 2023 19:48

Tgt Ion: 68 Resp: 28066
Ion Ratio Lower Upper
68 100
93 74.8 54.8 94.8



#95
Naphthalene
Concen: 0.15 ng
RT: 21.55 min Scan# 3244
Delta R.T. -0.006 min
Lab File: 03242323.D
Acq: 24 Mar 2023 19:48

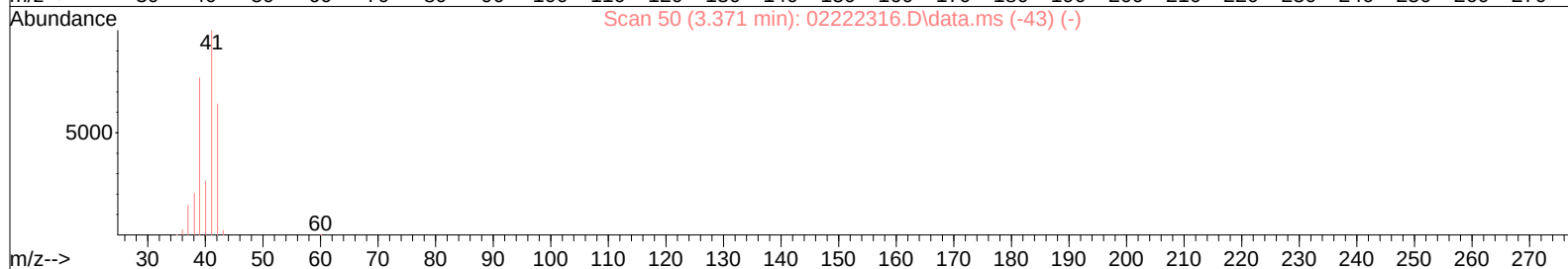
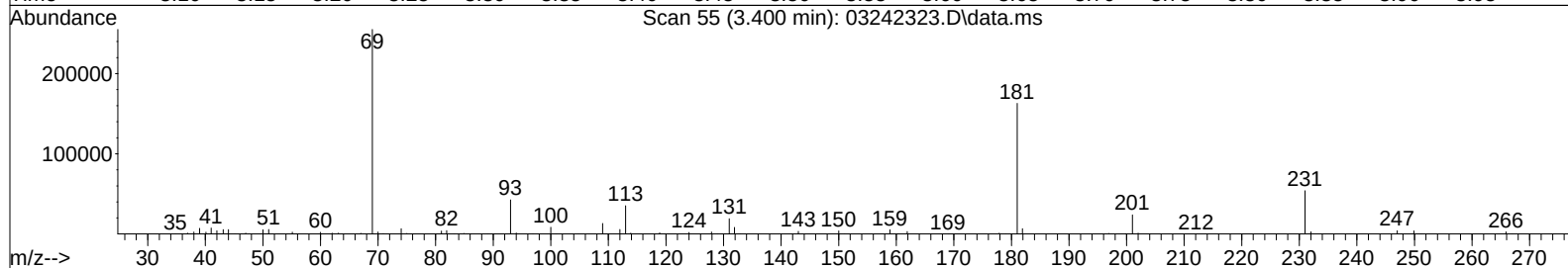
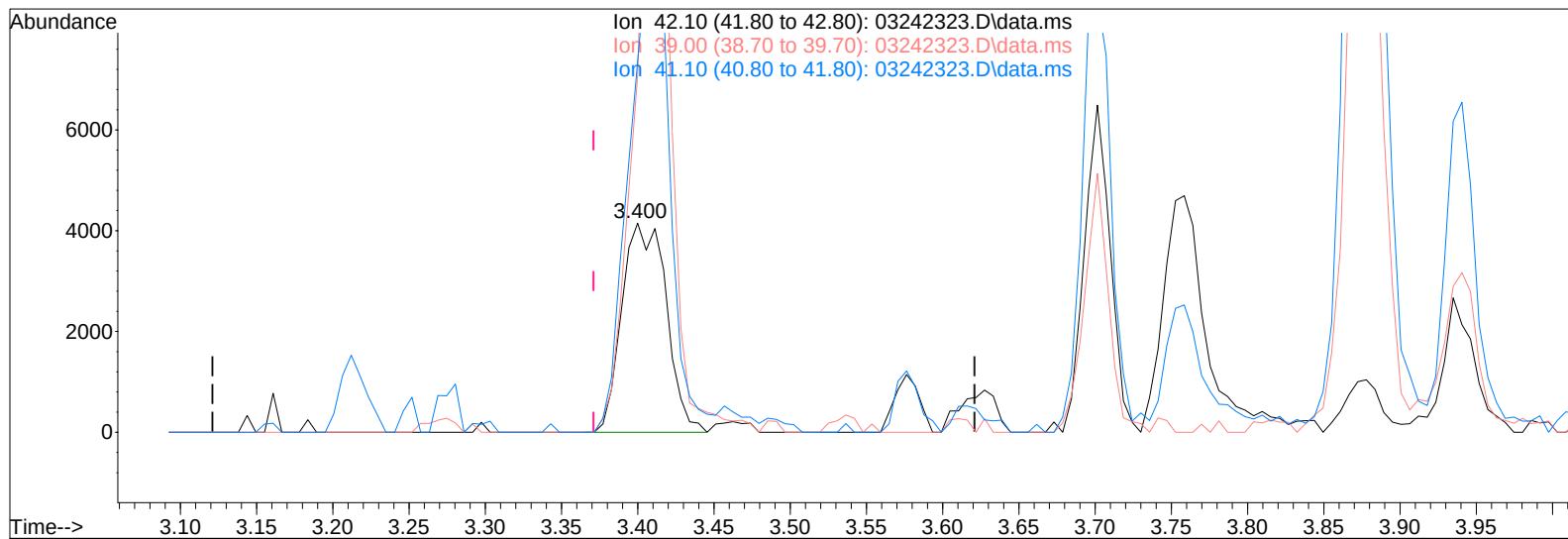
Tgt Ion: 128 Resp: 14631
Ion Ratio Lower Upper
128 100
129 11.7 0.0 30.9



Data File : I:\MS13\DATA\2023_03\24\03242323.D
Acq On : 24 Mar 2023 19:48
Sample : P2301250-018 (1000mL)
Misc : S35-01202301

Vial: 7
Operator: TZ
Inst : MS13

Quant Time: Mar 25 06:49:45 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03242323.D\data.ms

(2) Propene (T)

3.400min (+0.029) 0.35ng

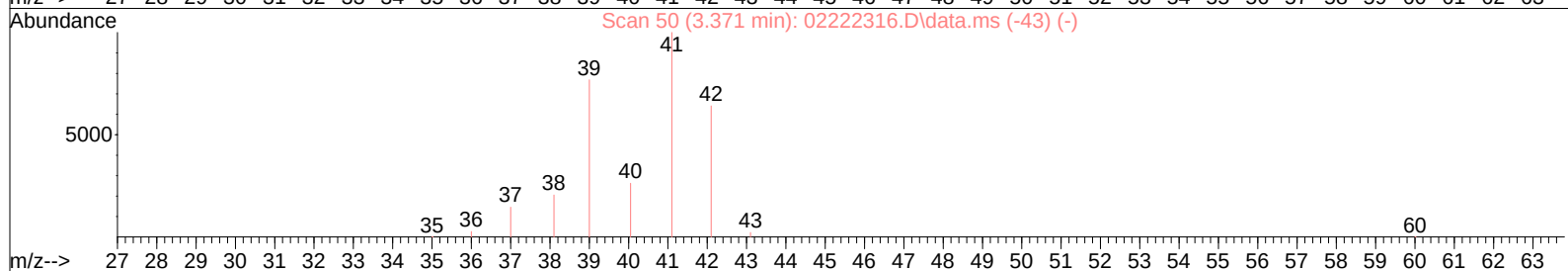
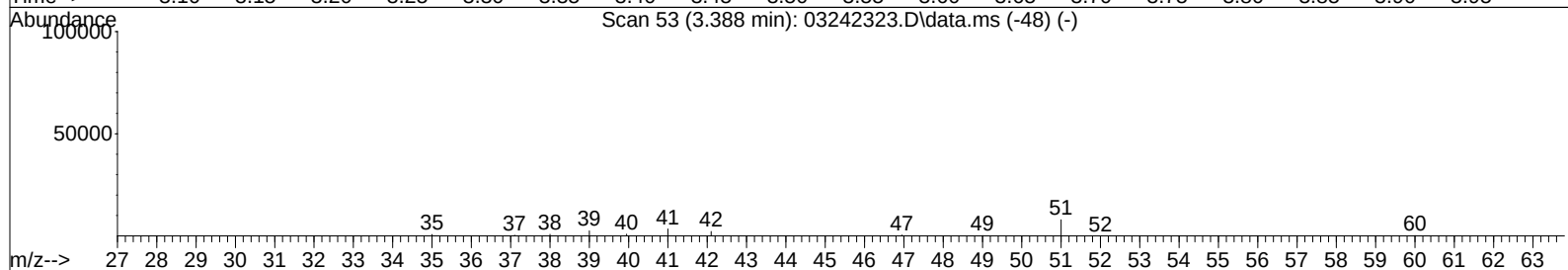
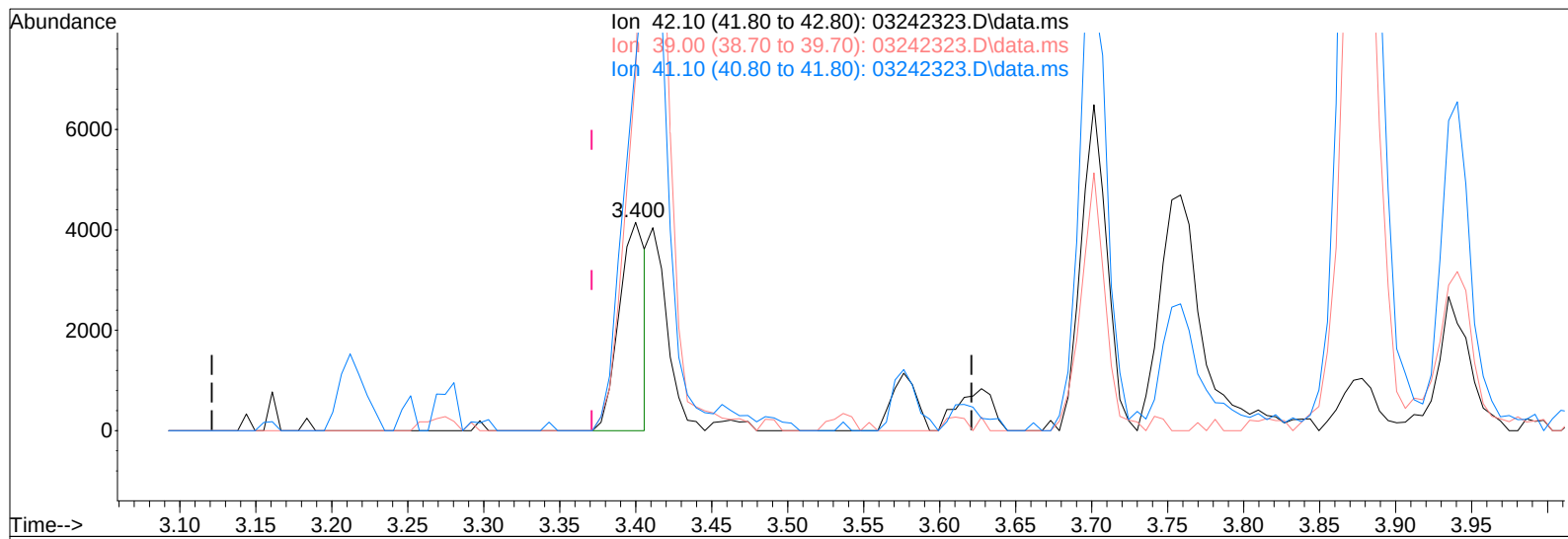
response 8358

Ion	Exp%	Act%
42.10	100	100
39.00	120.70	260.78#
41.10	154.40	218.90#
0.00	0.00	0.00

Data File : I:\MS13\DATA\2023_03\24\03242323.D
Acq On : 24 Mar 2023 19:48
Sample : P2301250-018 (1000mL)
Misc : S35-01202301

Vial: 7
Operator: TZ
Inst : MS13

Quant Time: Mar 25 06:49:45 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03242323.D\data.ms

(2) Propene (T)

3.400min (+0.029) 0.21ng m

response 5015

IPC

Ion	Exp%	Act%
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42.10	100	100
-------	-----	-----

TZ 3/27/23

39.00	120.70	434.62#
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41.10	154.40	364.83#
-------	--------	---------

0.00	0.00	0.00
------	------	------

3/28/23

Data File : I:\MS13\DATA\2023_03\24\03242323.D
 Acq On : 24 Mar 2023 19:48
 Sample : P2301250-018 (1000mL)
 Misc : S35-01202301

Vial: 7
 Operator: TZ
 Inst : MS13

Tz 3/28/23

Quant Time: Mar 28 09:58:33 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.32	130	243014	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	9.38	114	1061715	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	14.88	54	201891	12.500	ng	0.00

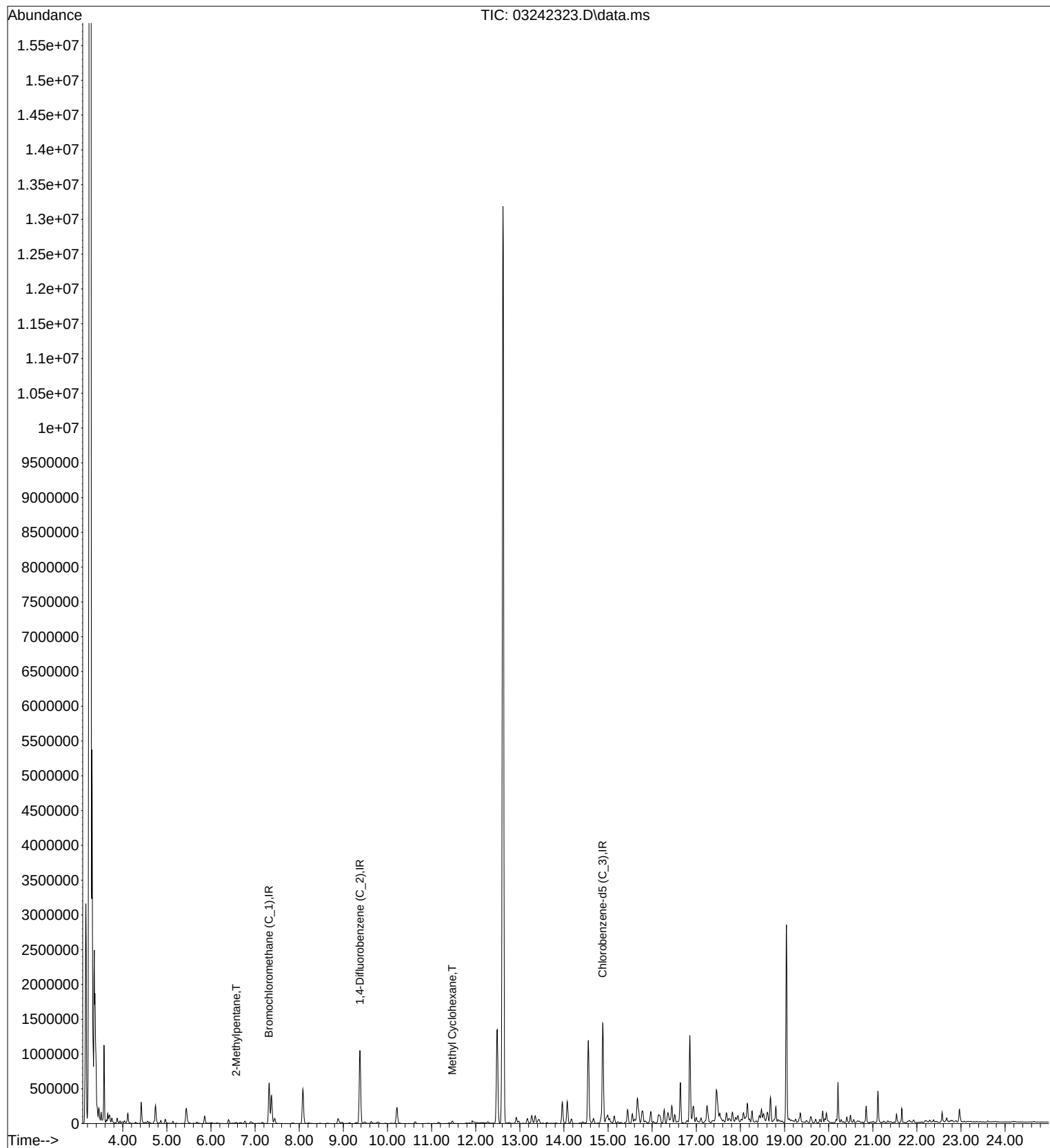
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	0.00	85	0	N.D.	d	
3) 1,1,1,2-Tetrafluoroeth...	3.25	83	1664	N.D.		
4) 1,1-Difluoroethane	3.35	65	1221	N.D.		
5) Chlorodifluoromethane ...	3.35	67	446	N.D.		
6) 1-Chloro-1,1-Difluoroe...	3.63	65	2487	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	0.00	43	0	N.D.	d	
12) 2-Methylpentane	6.58	71	3826	0.225	ng	# 1
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	9.14	84	1341	N.D.		
17) 2,3-Dimethylpentane	9.60	56	2320	N.D.		
18) Dibromomethane	9.87	174	460	N.D.		
20) Methyl Cyclohexane	11.47	55	15244	0.454	ng	87
21) 1,3-Dichloropropane	0.00	76	0	N.D.	d	
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	15.24	91	1215	N.D.		
24) 1,2,3-Trichloropropane	16.42	75	464	N.D.		
25) Bromobenzene	17.10	77	338	N.D.		
26) 2-Chlorotoluene	17.67	91	243	N.D.		
27) 4-Chlorotoluene	0.00	91	0	N.D.	d	
28) Indane	19.39	117	3987	N.D.		
29) Indene	19.51	115	1035	N.D.		
30) 1,2,4,5-Tetramethylben...	20.64	119	3757	N.D.		
31) 1,2,3,4-Tetramethylben...	20.69	119	5095	N.D.		
32) 1,2,3,5-Tetramethylben...	21.14	119	4606	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242323.D
Acq On : 24 Mar 2023 19:48
Sample : P2301250-018 (1000mL)
Misc : S35-01202301

Vial: 7
Operator: TZ
Inst : MS13

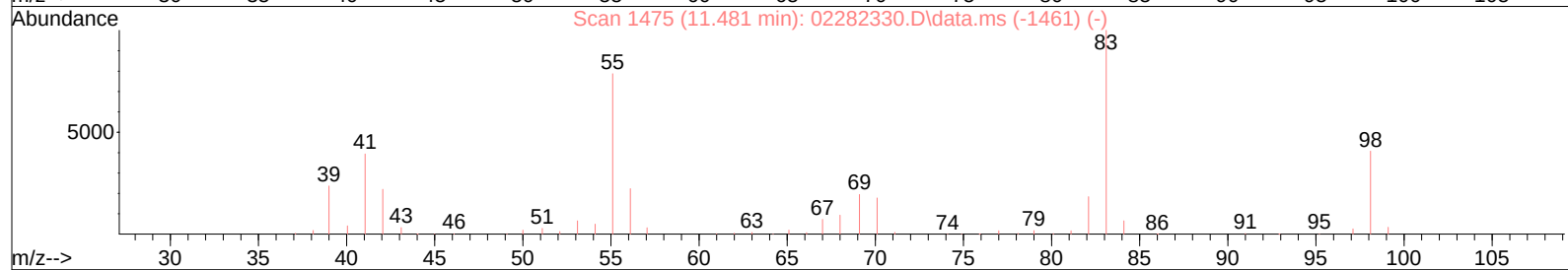
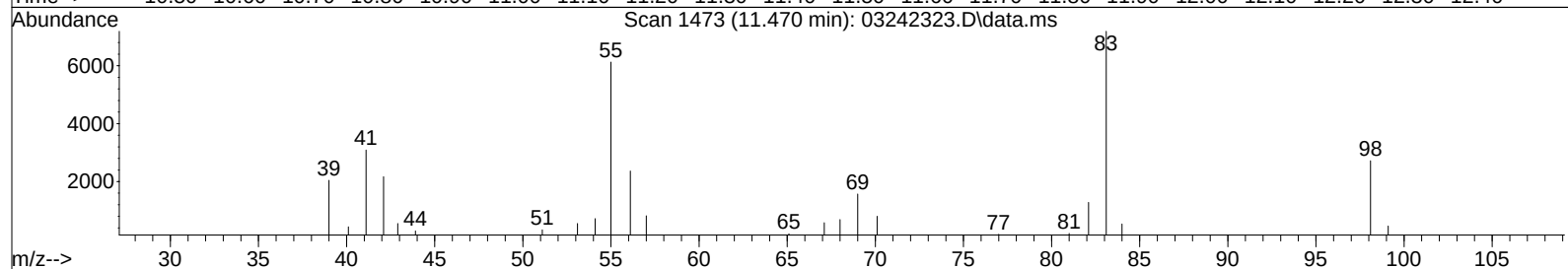
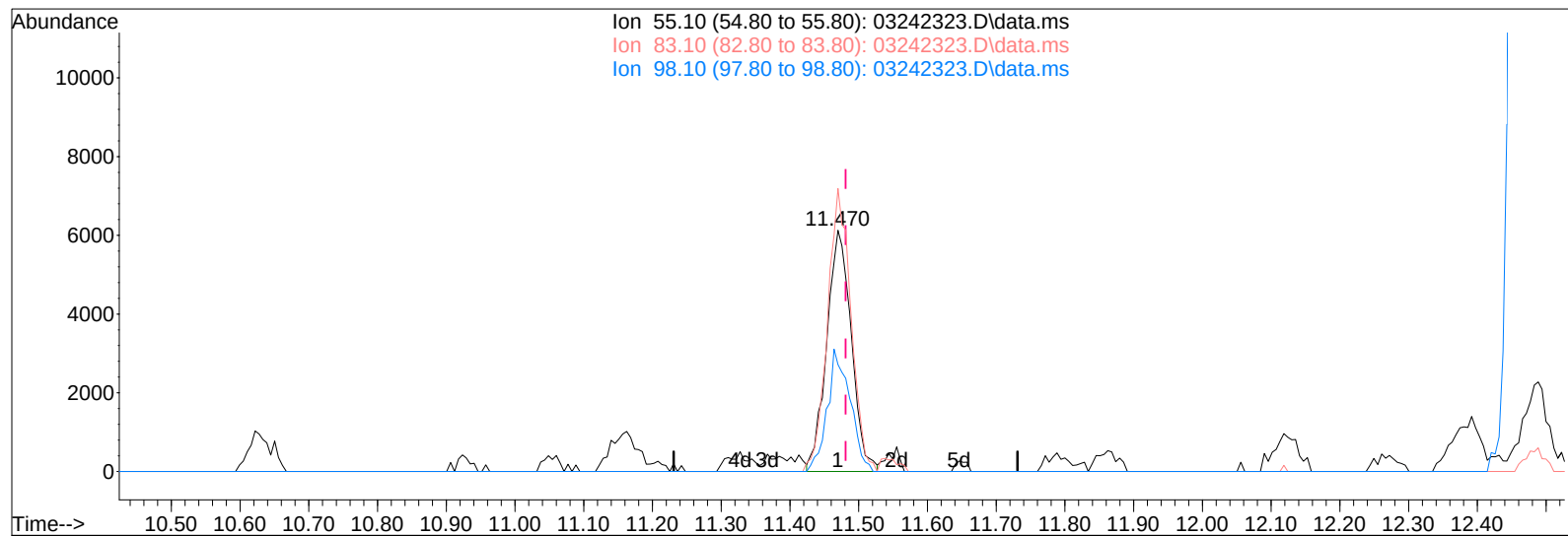
Quant Time: Mar 28 09:58:33 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242323.D
Acq On : 24 Mar 2023 19:48
Sample : P2301250-018 (1000mL)
Misc : S35-01202301

Vial: 7
Operator: TZ
Inst : MS13

Quant Time: Mar 27 16:04:15 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03242323.D\data.ms

(20) Methyl Cyclohexane (T)

11.470min (-0.011) 0.45ng

response 15244

Ion	Exp%	Act%
55.10	100	100
83.10	128.30	111.81
98.10	53.10	46.98
0.00	0.00	0.00

Data File : I:\MS13\DATA\2023_03\27\03272309.D
 Acq On : 27 Mar 2023 8:25
 Sample : P2301250-018dil (100mL)
 Misc : S35-01202301

Vial: 7
 Operator: WA
 Inst : MS13

Tz 3/27/23

Quant Time: Mar 27 14:39:01 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.31	130	228923	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	9.36	114	1006724	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.87	54	186893	12.500	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.07	65	392749	12.928	ng	-0.04
Spiked Amount	12.500	Range	70 - 130	Recovery	=	103.44%
57) Toluene-d8 (SS2)	12.47	98	1145229	11.915	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	95.36%
73) Bromofluorobenzene (SS3)	16.85	174	400484	11.376	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	91.04%

Target Compounds

						Qvalue
2) Propene	3.42	42	802	N.D.		
3) Dichlorodifluoromethan...	3.46	85	6570	0.157 ng		97
4) Chloromethane	3.51	50	118	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	3.71	135	112	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	4.39	45	33186	2.041 ng		99
11) Acetonitrile	4.56	41	415	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) Acetone	4.74	58	8345	0.601 ng		93
14) Trichlorofluoromethane	4.87	101	2698	0.071 ng		97
15) 2-Propanol (Isopropanol)	4.95	45	11899	0.212 ng		98
16) Acrylonitrile	5.09	53	133	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D. d		
19) Methylene Chloride	5.45	84	6938	0.341 ng		94
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D. d		
21) Trichlorotrifluoroethane	5.68	151	652	N.D.		
22) Carbon Disulfide	5.73	76	5899	0.073 ng		95
23) trans-1,2-Dichloroethene	6.17	61	162	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone (MEK)	6.77	72	893	0.072 ng	#	62
28) cis-1,2-Dichloroethene	7.15	61	933	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	7.37	61	6349	0.784 ng		90
31) n-Hexane	7.39	57	734	N.D.		
32) Chloroform	7.43	83	5561	0.151 ng		98
34) Tetrahydrofuran (THF)	7.86	72	216	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.07	62	404	N.D.		
38) 1,1,1-Trichloroethane	8.46	97	136	N.D.		
39) Isopropyl Acetate	9.36	61	28643	No Calib		
40) 1-Butanol	8.91	56	4399	No Calib	#	
41) Benzene	8.97	78	1872	N.D.		
42) Carbon Tetrachloride	9.13	117	803	N.D.		
43) Cyclohexane	9.29	84	380	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	10.20	130	9225	0.402 ng		100
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS13\DATA\2023_03\27\03272309.D
 Acq On : 27 Mar 2023 8:25
 Sample : P2301250-018dil (100mL)
 Misc : S35-01202301

Vial: 7
 Operator: WA
 Inst : MS13

Quant Time: Mar 27 14:39:01 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

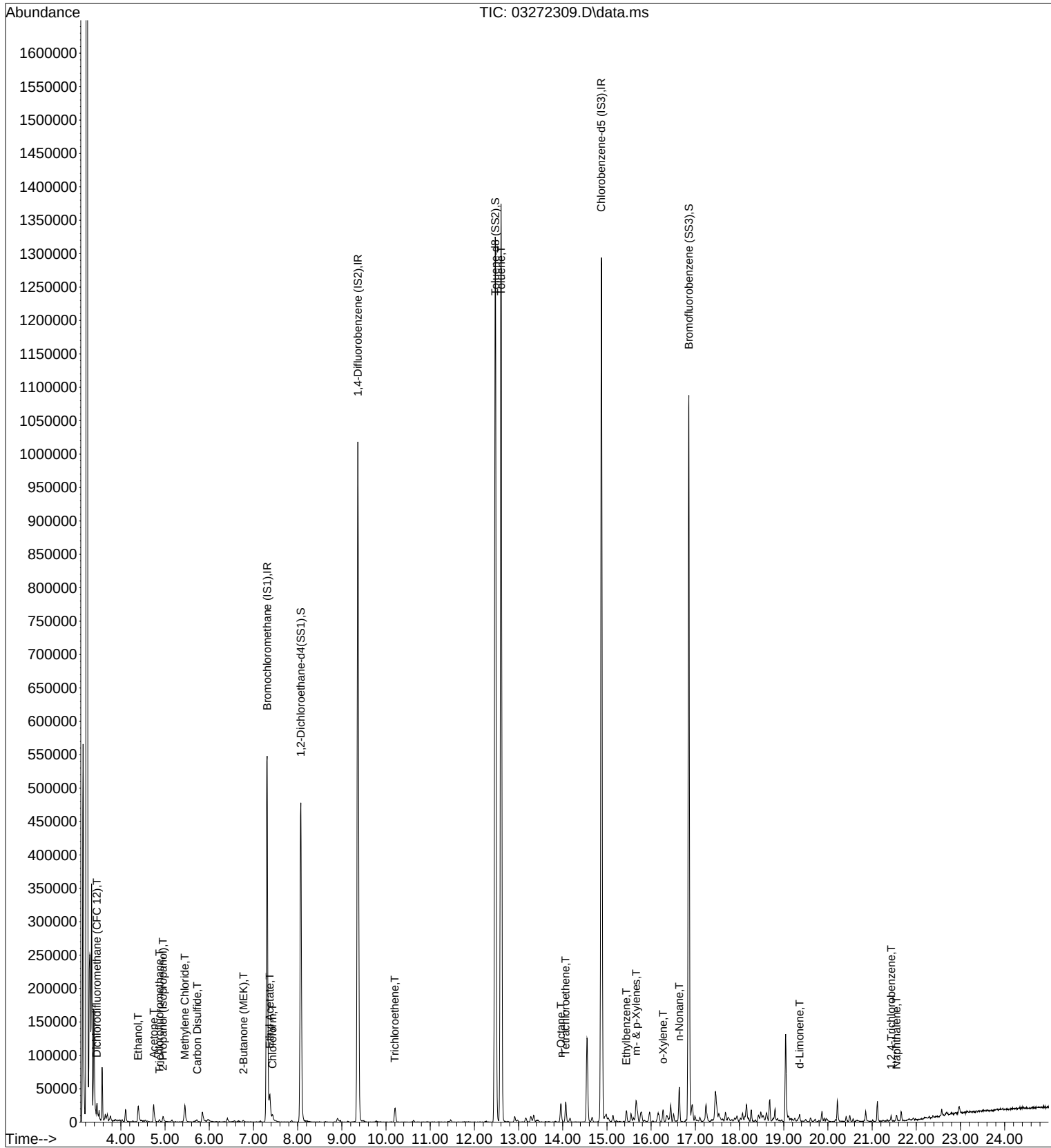
DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.62	71	506	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.60	91	1259934	13.770	ng	100
59) 2-Hexanone	0.00	43	0	N.D.	d	
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.83	43	1329	N.D.		
63) n-Octane	13.96	57	5083	0.283	ng	97
64) Tetrachloroethene	14.06	166	10924	0.392	ng	99
65) Chlorobenzene	14.94	112	716	N.D.		
66) Ethylbenzene	15.44	91	14088	0.129	ng	100
67) m- & p-Xylenes	15.66	91	29939	0.341	ng	99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.13	104	1833	N.D.		
70) o-Xylene	16.27	91	8428	0.100	ng	99
71) n-Nonane	16.64	43	21614	0.532	ng	95
72) 1,1,2,2-Tetrachloroethane	16.16	83	861	N.D.		
74) Cumene	17.06	105	660	N.D.		
75) alpha-Pinene	17.57	93	1138	N.D.		
76) n-Propylbenzene	17.74	91	1590	N.D.		
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	1479	N.D.		
79) 1,3,5-Trimethylbenzene	18.05	105	1201	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.60	105	3681	N.D.		
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	18.75	91	1445	N.D.		
85) 1,3-Dichlorobenzene	18.78	146	749	N.D.		
86) 1,4-Dichlorobenzene	18.86	146	721	N.D.		
87) sec-Butylbenzene	18.96	105	693	N.D.		
88) 4-Isopropyltoluene (p-...	19.18	119	1088	N.D.		
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.30	146	734	N.D.		
91) d-Limonene	19.36	68	2336	0.081	ng	91
92) 1,2-Dibromo-3-Chloropr...	19.86	157	376	N.D.		
93) n-Undecane	18.26	58	139	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	3189	0.083	ng	93
95) Naphthalene	21.55	128	7610	0.082	ng	92
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	21.98	225	406	N.D.		
98) Cyclohexanone	15.60	55	392	No Calib	#	
99) tert-Butylbenzene	18.59	119	827	N.D.		
100) n-Butylbenzene	19.71	91	1426	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Vial: 7
Operator: WA
Inst : MS13

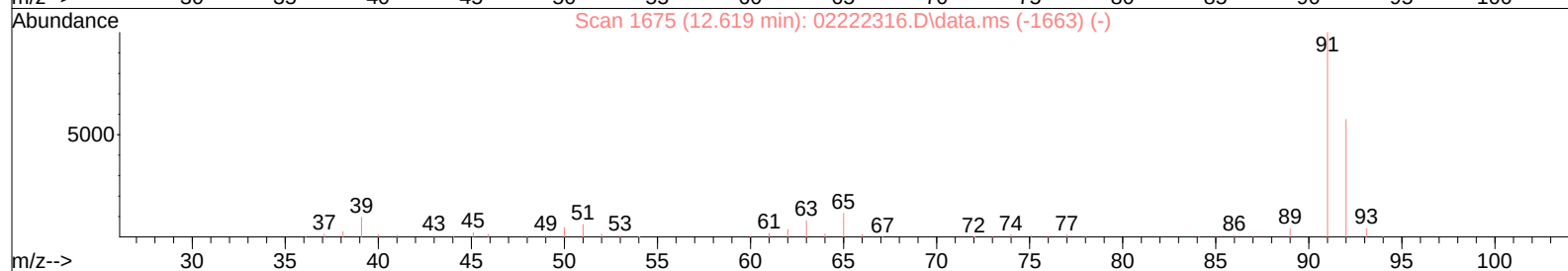
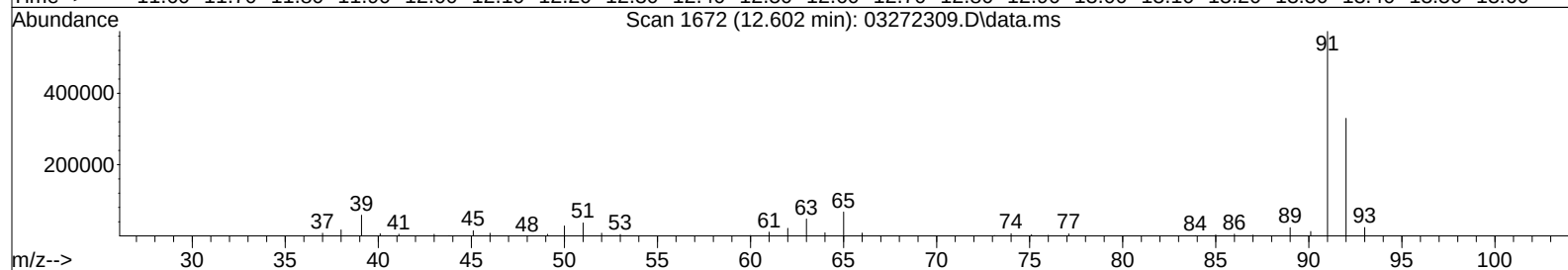
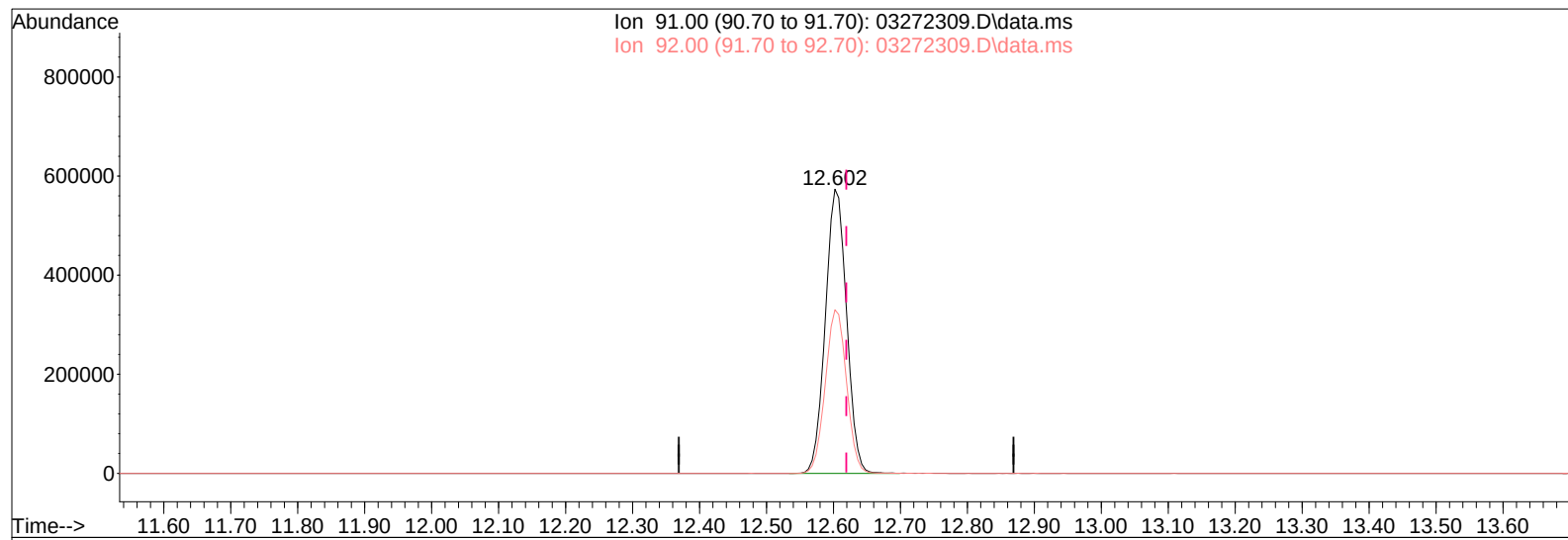
Quant Time: Mar 27 14:39:01 2023



Data File : I:\MS13\DATA\2023_03\27\03272309.D
Acq On : 27 Mar 2023 8:25
Sample : P2301250-018dil (100mL)
Misc : S35-01202301

Vial: 7
Operator: WA
Inst : MS13

Quant Time: Mar 27 10:22:13 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03272309.D\data.ms

(58) Toluene (T)

12.602min (-0.017) 13.77ng

response 1259934

Ion	Exp%	Act%
91.00	100	100
92.00	58.00	57.69
0.00	0.00	0.00
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG24-1

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01189

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.29 Final Pressure (psig): 3.84

Container Dilution Factor: 1.49

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	0.79	0.13	0.50	0.16	0.026	
74-87-3	Chloromethane	ND	0.31	0.13	ND	0.15	0.062	
75-01-4	Vinyl Chloride	0.25	0.16	0.085	0.096	0.064	0.033	
74-83-9	Bromomethane	ND	0.31	0.11	ND	0.081	0.028	
75-00-3	Chloroethane	ND	0.31	0.098	ND	0.12	0.037	
67-64-1	Acetone	42	7.9	1.8	18	3.3	0.75	
75-69-4	Trichlorofluoromethane	1.1	0.77	0.12	0.20	0.14	0.021	
75-35-4	1,1-Dichloroethene	ND	0.16	0.11	ND	0.041	0.028	
75-09-2	Methylene Chloride	2.1	0.79	0.22	0.60	0.23	0.064	
76-13-1	Trichlorotrifluoroethane	0.49	0.80	0.11	0.064	0.11	0.015	J
75-15-0	Carbon Disulfide	1.2	1.6	0.24	0.38	0.51	0.077	J
156-60-5	trans-1,2-Dichloroethene	ND	0.16	0.11	ND	0.041	0.028	
75-34-3	1,1-Dichloroethane	0.34	0.16	0.12	0.085	0.041	0.029	
1634-04-4	Methyl tert-Butyl Ether	ND	0.80	0.094	ND	0.22	0.026	
78-93-3	2-Butanone (MEK)	2.4	1.5	0.16	0.82	0.53	0.056	
156-59-2	cis-1,2-Dichloroethene	0.77	0.16	0.11	0.19	0.041	0.028	
67-66-3	Chloroform	2.6	0.16	0.11	0.53	0.034	0.022	
107-06-2	1,2-Dichloroethane	ND	0.16	0.088	ND	0.041	0.022	
71-55-6	1,1,1-Trichloroethane	2.1	0.16	0.098	0.39	0.030	0.018	
71-43-2	Benzene	2.7	0.16	0.11	0.85	0.051	0.036	
56-23-5	Carbon Tetrachloride	16	0.16	0.11	2.5	0.026	0.018	
110-82-7	Cyclohexane	5.1	1.6	0.22	1.5	0.45	0.065	
78-87-5	1,2-Dichloropropane	ND	0.16	0.098	ND	0.035	0.021	
75-27-4	Bromodichloromethane	ND	0.16	0.11	ND	0.024	0.017	
79-01-6	Trichloroethene	79	0.16	0.11	15	0.031	0.020	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG24-1

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01189

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.29 Final Pressure (psig): 3.84

Container Dilution Factor: 1.49

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.80	0.12	ND	0.18	0.027	
108-10-1	4-Methyl-2-pentanone	0.28	1.6	0.11	0.068	0.40	0.027	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.76	0.16	ND	0.17	0.036	
79-00-5	1,1,2-Trichloroethane	ND	0.16	0.080	ND	0.030	0.015	
108-88-3	Toluene	15	0.79	0.097	3.9	0.21	0.026	
591-78-6	2-Hexanone	ND	1.6	0.098	ND	0.40	0.024	
124-48-1	Dibromochloromethane	ND	0.16	0.10	ND	0.019	0.012	
106-93-4	1,2-Dibromoethane	ND	0.16	0.092	ND	0.021	0.012	
127-18-4	Tetrachloroethene	2.5	0.16	0.10	0.36	0.024	0.015	
108-90-7	Chlorobenzene	ND	0.79	0.11	ND	0.17	0.023	
100-41-4	Ethylbenzene	0.46	0.79	0.11	0.11	0.18	0.026	J
179601-23-1	m,p-Xylenes	2.0	1.6	0.21	0.46	0.38	0.048	
75-25-2	Bromoform	ND	0.80	0.16	ND	0.078	0.016	
100-42-5	Styrene	0.27	0.79	0.13	0.063	0.19	0.030	J
95-47-6	o-Xylene	0.75	0.79	0.11	0.17	0.18	0.026	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	0.11	ND	0.024	0.016	
98-82-8	Cumene	ND	0.80	0.11	ND	0.16	0.023	
541-73-1	1,3-Dichlorobenzene	ND	0.79	0.12	ND	0.13	0.020	
106-46-7	1,4-Dichlorobenzene	ND	0.79	0.12	ND	0.13	0.020	
95-50-1	1,2-Dichlorobenzene	ND	0.80	0.12	ND	0.13	0.020	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.6	0.15	ND	0.17	0.015	
120-82-1	1,2,4-Trichlorobenzene	ND	1.6	0.19	ND	0.22	0.026	
79-20-9	Methyl Acetate	ND	0.75	0.36	ND	0.25	0.12	X
108-87-2	Methylcyclohexane	20	0.75	0.39	5.1	0.19	0.097	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS13\DATA\2023_03\24\03242324.D
 Acq On : 24 Mar 2023 20:24
 Sample : P2301250-019 (1000mL)
 Misc : S35-01202301

Vial: 8
 Operator: TZ
 Inst : MS13

Quant Time: Mar 27 13:38:59 2023

TZ 3/27/23

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	245098	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	9.38	114	1072536	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	203309	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	415094	12.762	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.08%
57) Toluene-d8 (SS2)	12.48	98	1217661	11.646	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.20%
73) Bromofluorobenzene (SS3)	16.85	174	448693	11.717	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.76%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	3.46	85	73762	1.643	ng	99
4) Chloromethane	3.58	50	785	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	3.72	135	2047	0.090	ng	86
6) Vinyl Chloride	3.79	62	4932	0.165	ng	95
7) 1,3-Butadiene	0.00	54	0	N.D.	d	
8) Bromomethane	4.13	94	171	N.D.		
9) Chloroethane	4.27	64	126	N.D.		
10) Ethanol	4.40	45	130788	7.514	ng	100
11) Acetonitrile	4.56	41	6543	0.145	ng	82
12) Acrolein	4.65	56	2323	0.161	ng	91
13) Acetone	4.73	58	420563	28.309	ng	# 77
14) Trichlorofluoromethane	4.86	101	30889	0.764	ng	100
15) 2-Propanol (Isopropanol)	4.95	45	124811	2.081	ng	93
16) Acrylonitrile	0.00	53	0	N.D.	d	
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.45	84	30595	1.405	ng	93
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	5.68	151	7039	0.331	ng	100
22) Carbon Disulfide	5.70	76	68716	0.797	ng	99
23) trans-1,2-Dichloroethene	6.23	61	654	N.D.		
24) 1,1-Dichloroethane	6.42	63	8915	0.230	ng	94
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.	d	
26) Vinyl Acetate	6.53	86	2484	0.618	ng	# 1
27) 2-Butanone (MEK)	6.77	72	21295	1.615	ng	97
28) cis-1,2-Dichloroethene	7.17	61	16114	0.515	ng	98
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	7.38	61	74710	8.615	ng	100
31) n-Hexane	7.39	57	318799	9.551	ng	98
32) Chloroform	7.45	83	68694	1.740	ng	100
34) Tetrahydrofuran (THF)	7.86	72	2738	0.202	ng	# 67
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.19	62	342	N.D.		
38) 1,1,1-Trichloroethane	8.48	97	50643	1.427	ng	99
39) Isopropyl Acetate	9.38	61	31263	No Calib		
40) 1-Butanol	8.88	56	41328	No Calib	#	
41) Benzene	8.98	78	151165	1.812	ng	99
42) Carbon Tetrachloride	9.14	117	327472	10.457	ng	99
43) Cyclohexane	9.30	84	104854	3.428	ng	93
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.	d	
47) Trichloroethene	10.22	130	1296186	53.028	ng	100
48) 1,4-Dioxane	0.00	88	0	N.D.	d	
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.	d	
50) Methyl Methacrylate	10.47	100	159	N.D.		

Data File : I:\MS13\DATA\2023_03\24\03242324.D
 Acq On : 24 Mar 2023 20:24
 Sample : P2301250-019 (1000mL)
 Misc : S35-01202301

Vial: 8
 Operator: TZ
 Inst : MS13

Quant Time: Mar 27 13:38:59 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

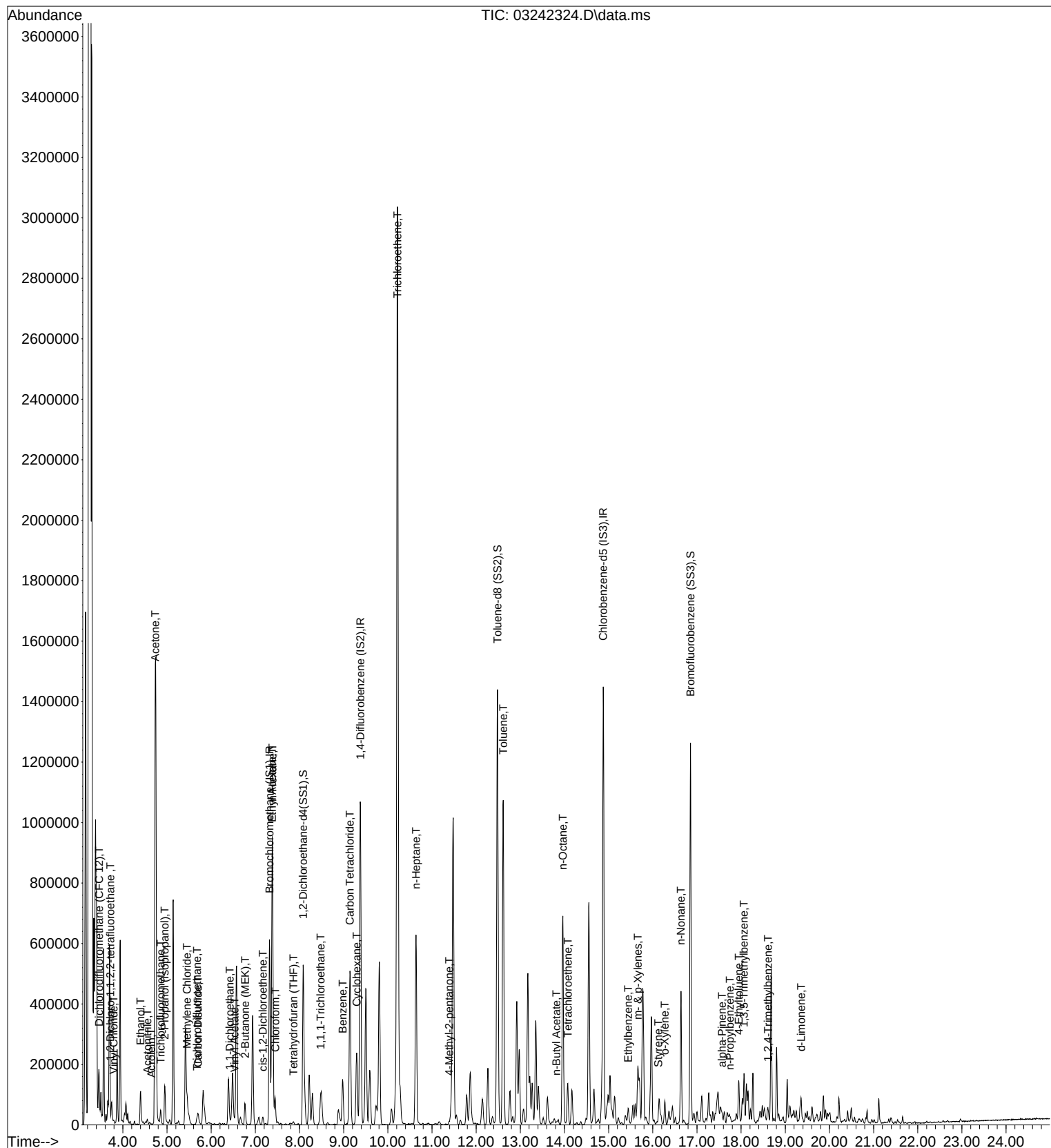
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.64	71	179271	8.879	ng	98
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.39	58	3373	0.188	ng	85
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.	d	
58) Toluene	12.61	91	972661	9.772	ng	100
59) 2-Hexanone	0.00	43	0	N.D.	d	
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.82	43	7955	0.145	ng	# 58
63) n-Octane	13.96	57	126154	6.445	ng	94
64) Tetrachloroethene	14.08	166	50006	1.651	ng	100
65) Chlorobenzene	0.00	112	0	N.D.	d	
66) Ethylbenzene	15.44	91	36594	0.308	ng	99
67) m- & p-Xylenes	15.66	91	126985	1.329	ng	97
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.12	104	11788	0.179	ng	96
70) o-Xylene	16.27	91	45930	0.503	ng	98
71) n-Nonane	16.64	43	181670	4.108	ng	96
72) 1,1,2,2-Tetrachloroethane	16.25	83	168	N.D.		
74) Cumene	17.06	105	5338	N.D.		
75) alpha-Pinene	17.57	93	7863	0.153	ng	79
76) n-Propylbenzene	17.75	91	7642	0.057	ng	92
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	7772	0.073	ng	96
79) 1,3,5-Trimethylbenzene	18.07	105	9508	0.101	ng	96
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.61	105	19512	0.210	ng	90
83) n-Decane	17.10	58	2712	No Calib	#	
84) Benzyl Chloride	18.77	91	360	N.D.		
85) 1,3-Dichlorobenzene	18.77	146	1140	N.D.		
86) 1,4-Dichlorobenzene	18.86	146	2022	N.D.		
87) sec-Butylbenzene	18.96	105	1599	N.D.		
88) 4-Isopropyltoluene (p-...	19.18	119	4646	N.D.		
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.30	146	1635	N.D.		
91) d-Limonene	19.36	68	12761	0.406	ng	99
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.27	58	3597	No Calib		
94) 1,2,4-Trichlorobenzene	21.44	180	365	N.D.		
95) Naphthalene	21.55	128	2406	N.D.		
96) n-Dodecane	19.15	58	725	No Calib	#	
97) Hexachlorobutadiene	21.99	225	137	N.D.		
98) Cyclohexanone	15.71	55	7771	No Calib	#	
99) tert-Butylbenzene	18.60	119	2552	N.D.		
100) n-Butylbenzene	0.00	91	0	N.D.	d	
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242324.D
Acq On : 24 Mar 2023 20:24
Sample : P2301250-019 (1000mL)
Misc : S35-01202301

Vial: 8
Operator: TZ
Inst : MS13

Quant Time: Mar 27 13:38:59 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242324.D
 Acq On : 24 Mar 2023 20:24
 Sample : P2301250-019 (1000mL)
 Misc : S35-01202301

Vial: 8
 Operator: TZ
 Inst : MS13

T2 3/27/23

Quant Time: Mar 27 13:38:59 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	245098	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	9.38	114	1072536	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	203309	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	415094	12.762	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.08%
57) Toluene-d8 (SS2)	12.48	98	1217661	11.646	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.20%
73) Bromofluorobenzene (SS3)	16.85	174	448693	11.717	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.76%

Target Compounds

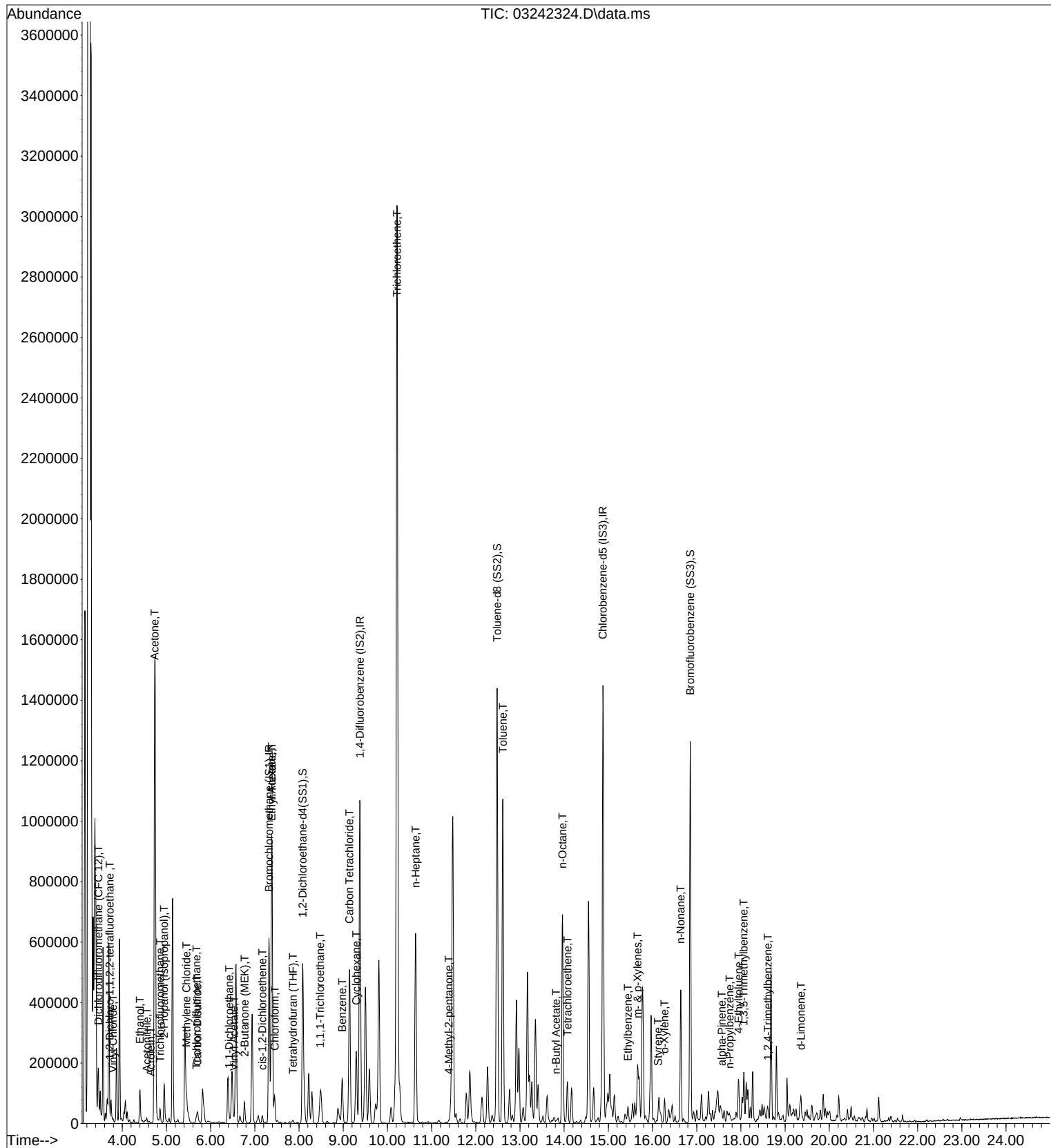
						Qvalue
3) Dichlorodifluoromethan...	3.46	85	73762	1.643	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	3.72	135	2047	0.090	ng	86
6) Vinyl Chloride	3.79	62	4932	0.165	ng	95
10) Ethanol	4.40	45	130788	7.514	ng	100
11) Acetonitrile	4.56	41	6543	0.145	ng	82
12) Acrolein	4.65	56	2323	0.161	ng	91
13) Acetone	4.73	58	420563	28.309	ng	# 77
14) Trichlorofluoromethane	4.86	101	30889	0.764	ng	100
15) 2-Propanol (Isopropanol)	4.95	45	124811	2.081	ng	93
19) Methylene Chloride	5.45	84	30595	1.405	ng	93
21) Trichlorotrifluoroethane	5.68	151	7039	0.331	ng	100
22) Carbon Disulfide	5.70	76	68716	0.797	ng	99
24) 1,1-Dichloroethane	6.42	63	8915	0.230	ng	94
26) Vinyl Acetate	6.53	86	2484	0.618	ng	# 1
27) 2-Butanone (MEK)	6.77	72	21295	1.615	ng	97
28) cis-1,2-Dichloroethene	7.17	61	16114	0.515	ng	98
30) Ethyl Acetate	7.38	61	74710	8.615	ng	100
31) n-Hexane	7.39	57	318799	9.551	ng	98
32) Chloroform	7.45	83	68694	1.740	ng	100
34) Tetrahydrofuran (THF)	7.86	72	2738	0.202	ng	# 67
38) 1,1,1-Trichloroethane	8.48	97	50643	1.427	ng	99
41) Benzene	8.98	78	151165	1.812	ng	99
42) Carbon Tetrachloride	9.14	117	327472	10.457	ng	99
43) Cyclohexane	9.30	84	104854	3.428	ng	93
47) Trichloroethene	10.22	130	1296186	53.028	ng	100
51) n-Heptane	10.64	71	179271	8.879	ng	98
53) 4-Methyl-2-pentanone	11.39	58	3373	0.188	ng	85
58) Toluene	12.61	91	972661	9.772	ng	100
62) n-Butyl Acetate	13.82	43	7955	0.145	ng	# 58
63) n-Octane	13.96	57	126154	6.445	ng	94
64) Tetrachloroethene	14.08	166	50006	1.651	ng	100
66) Ethylbenzene	15.44	91	36594	0.308	ng	99
67) m- & p-Xylenes	15.66	91	126985	1.329	ng	97
69) Styrene	16.12	104	11788	0.179	ng	96
70) o-Xylene	16.27	91	45930	0.503	ng	98
71) n-Nonane	16.64	43	181670	4.108	ng	96
75) alpha-Pinene	17.57	93	7863	0.153	ng	79
76) n-Propylbenzene	17.75	91	7642	0.057	ng	92
78) 4-Ethyltoluene	17.95	105	7772	0.073	ng	96
79) 1,3,5-Trimethylbenzene	18.07	105	9508	0.101	ng	96
82) 1,2,4-Trimethylbenzene	18.61	105	19512	0.210	ng	90
91) d-Limonene	19.36	68	12761	0.406	ng	99

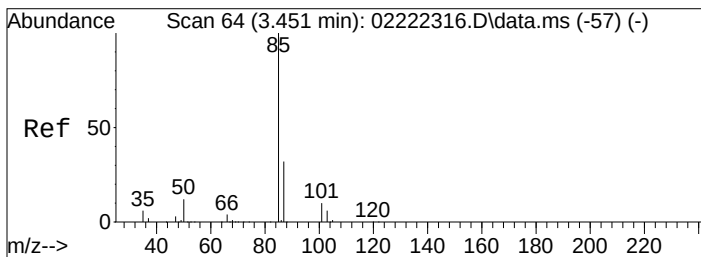
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS13\DATA\2023_03\24\03242324.D
Acq On : 24 Mar 2023 20:24
Sample : P2301250-019 (1000mL)
Misc : S35-01202301

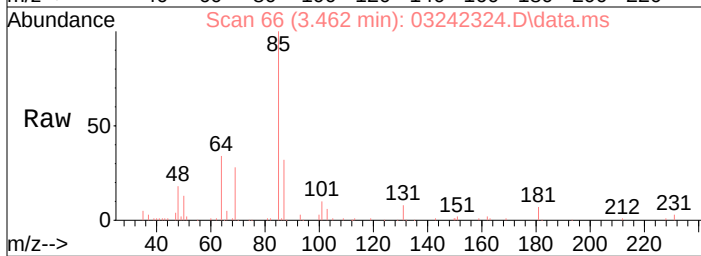
Vial: 8
Operator: TZ
Inst : MS13

Quant Time: Mar 27 13:38:59 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M

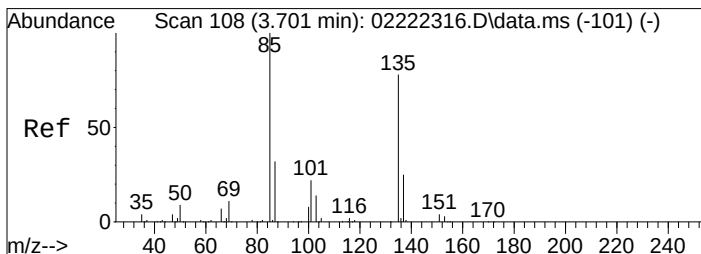
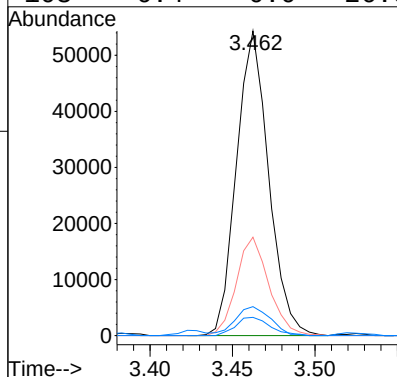
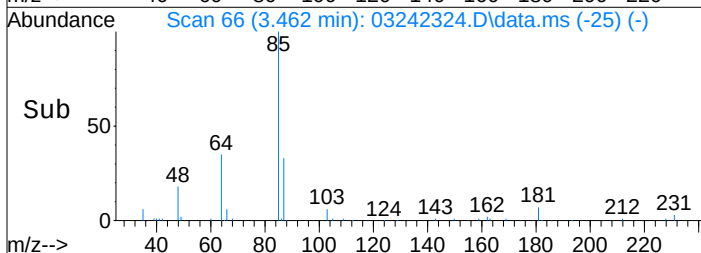




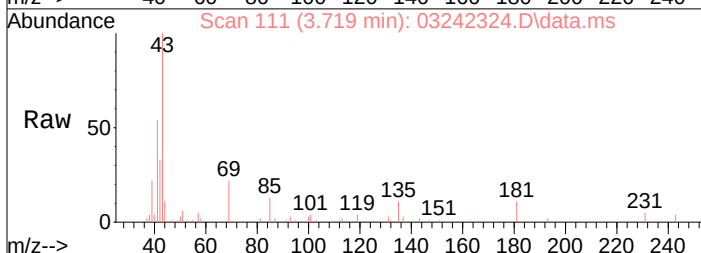
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.64 ng
 RT: 3.46 min Scan# 66
 Delta R.T. -0.016 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 20:24



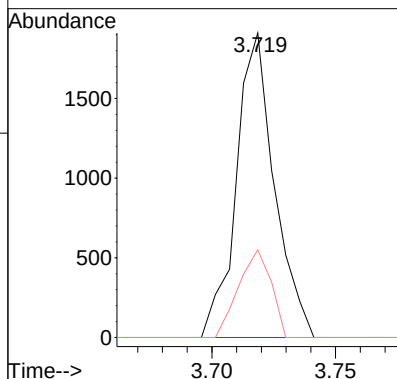
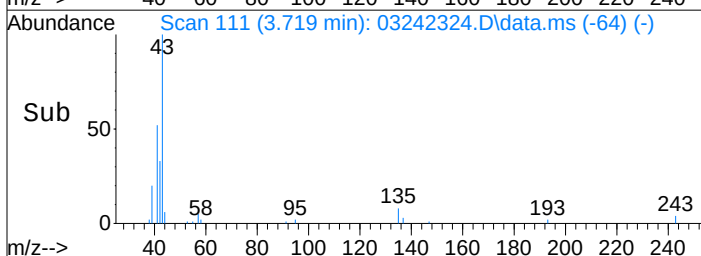
Tgt Ion: 85 Resp: 73762
 Ion Ratio Lower Upper
 85 100
 87 32.6 12.4 52.4
 101 10.5 0.0 29.4
 103 6.4 0.0 26.0

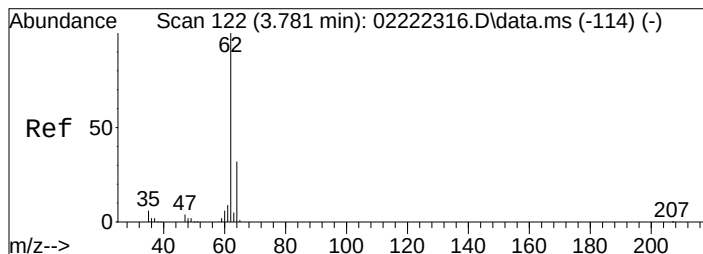


#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.09 ng
 RT: 3.72 min Scan# 111
 Delta R.T. 0.017 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 20:24



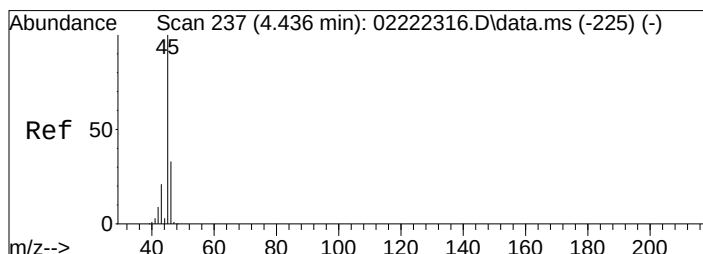
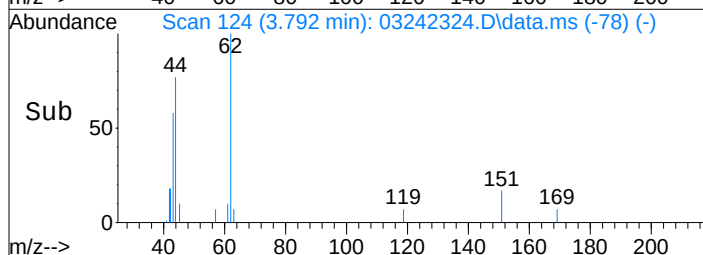
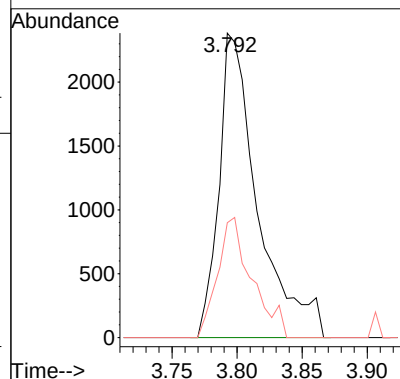
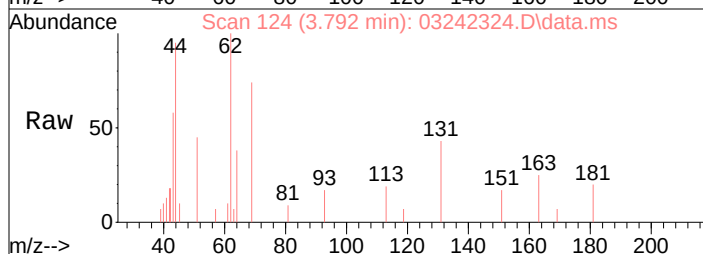
Tgt Ion: 135 Resp: 2047
 Ion Ratio Lower Upper
 135 100
 137 24.6 12.2 52.2





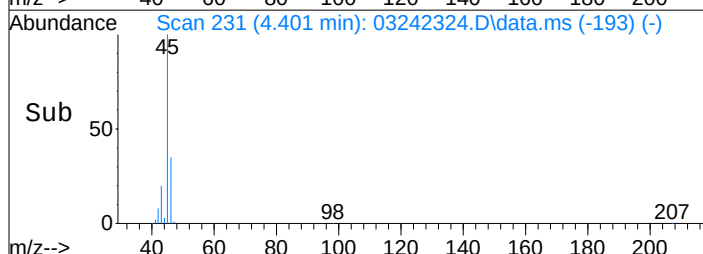
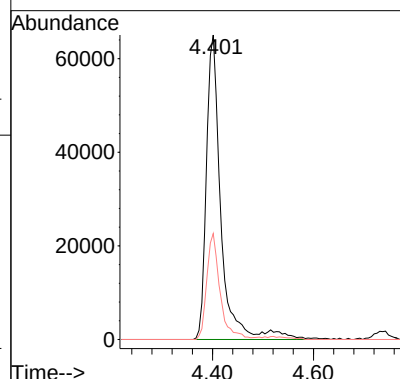
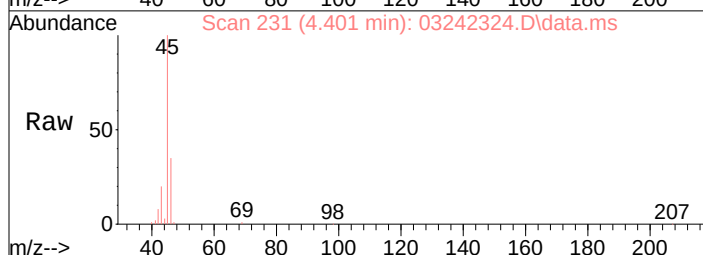
#6
 Vinyl Chloride
 Concen: 0.16 ng
 RT: 3.79 min Scan# 124
 Delta R.T. 0.011 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 20:24

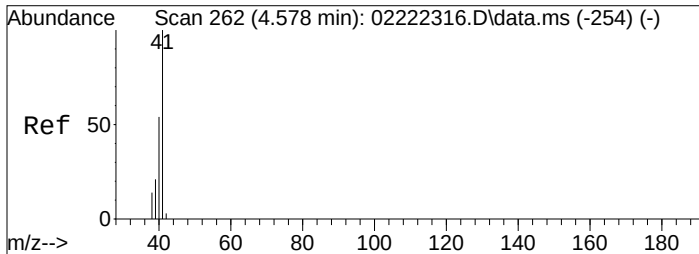
Tgt Ion: 62 Resp: 4932
 Ion Ratio Lower Upper
 62 100
 64 34.8 11.8 51.8



#10
 Ethanol
 Concen: 7.51 ng
 RT: 4.40 min Scan# 231
 Delta R.T. -0.034 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 20:24

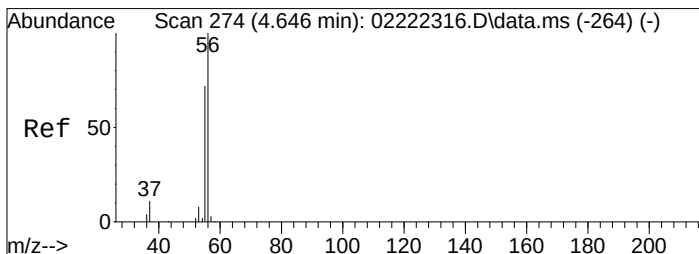
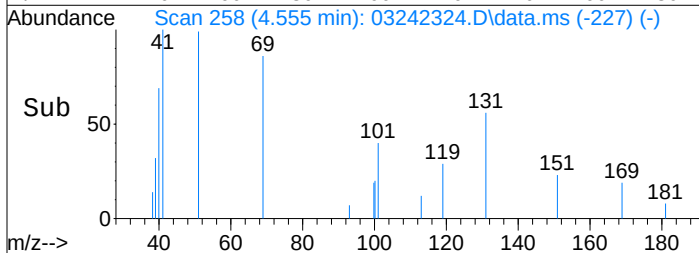
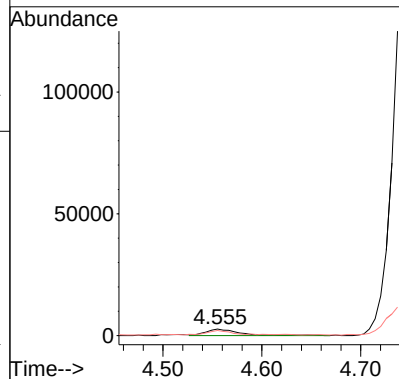
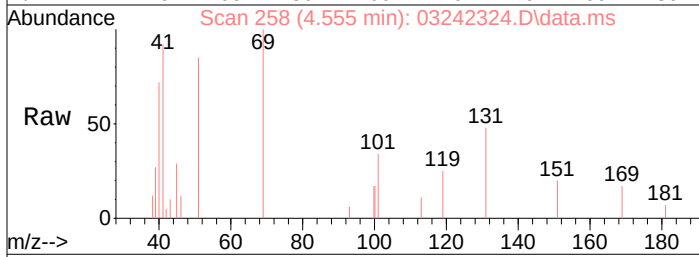
Tgt Ion: 45 Resp: 130788
 Ion Ratio Lower Upper
 45 100
 46 33.6 13.8 53.8





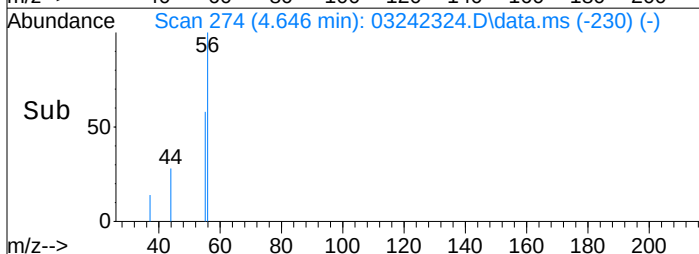
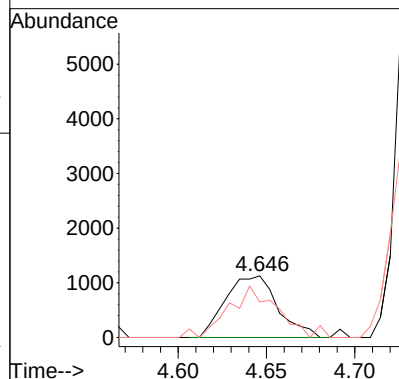
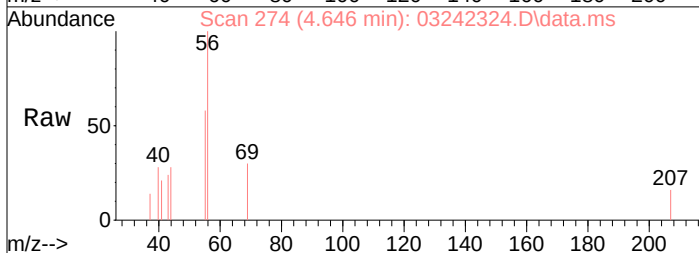
#11
Acetonitrile
Concen: 0.14 ng
RT: 4.56 min Scan# 258
Delta R.T. -0.023 min
Lab File: 03242324.D
Acq: 24 Mar 2023 20:24

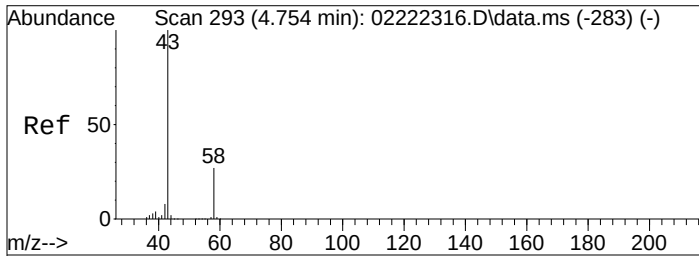
Tgt Ion: 41 Resp: 6543
Ion Ratio Lower Upper
41 100
40 67.5 34.4 74.4



#12
Acrolein
Concen: 0.16 ng
RT: 4.65 min Scan# 274
Delta R.T. 0.000 min
Lab File: 03242324.D
Acq: 24 Mar 2023 20:24

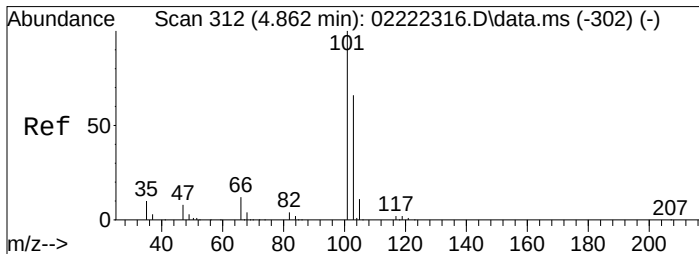
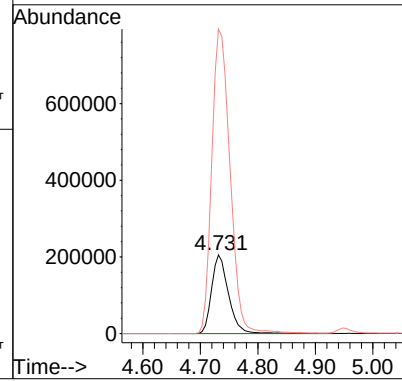
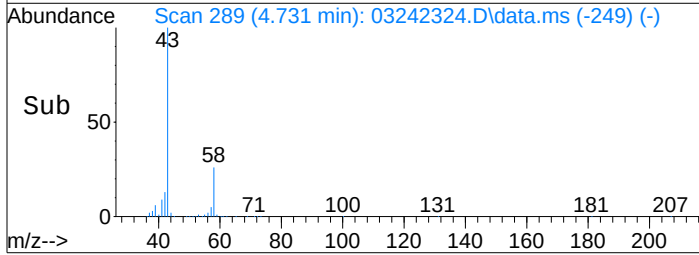
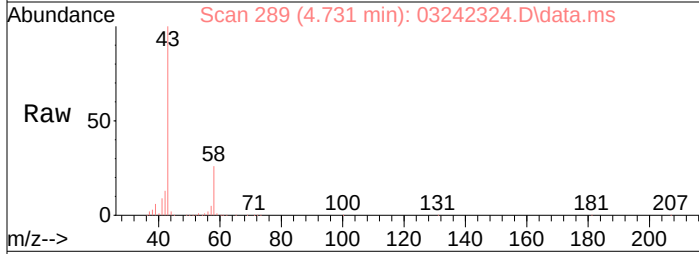
Tgt Ion: 56 Resp: 2323
Ion Ratio Lower Upper
56 100
55 78.6 50.9 90.9





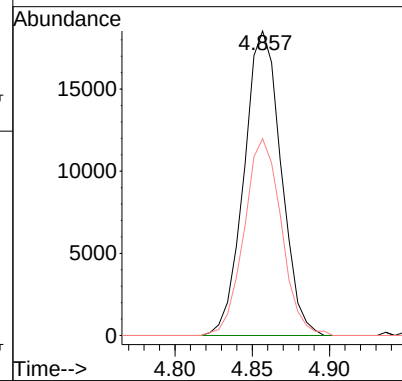
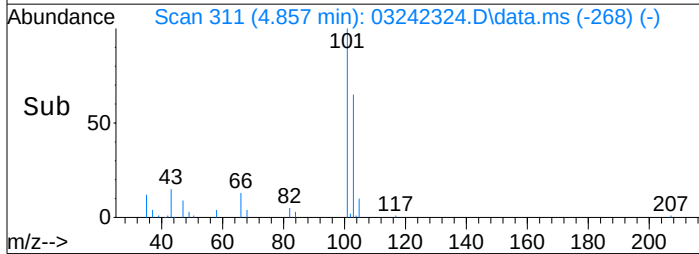
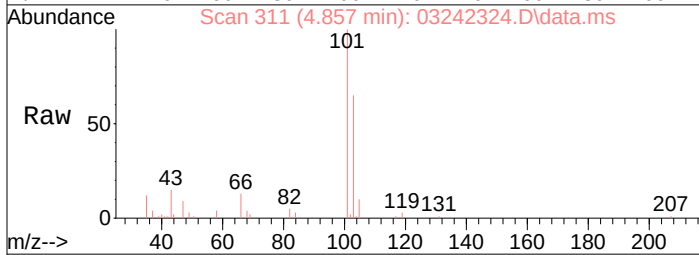
#13
Acetone
Concen: 28.31 ng
RT: 4.73 min Scan# 289
Delta R.T. -0.023 min
Lab File: 03242324.D
Acq: 24 Mar 2023 20:24

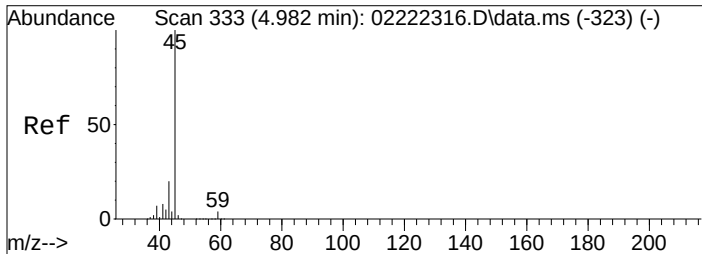
Tgt Ion: 58 Resp: 420563
Ion Ratio Lower Upper
58 100
43 419.3 337.8 397.8#



#14
Trichlorofluoromethane
Concen: 0.76 ng
RT: 4.86 min Scan# 311
Delta R.T. -0.006 min
Lab File: 03242324.D
Acq: 24 Mar 2023 20:24

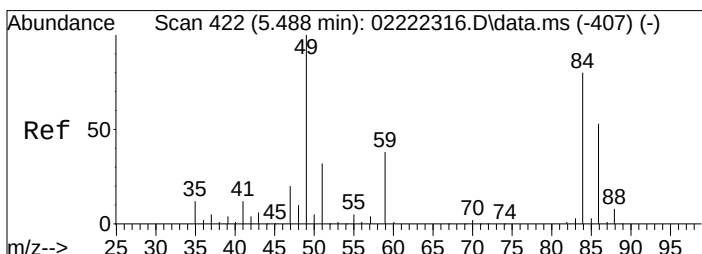
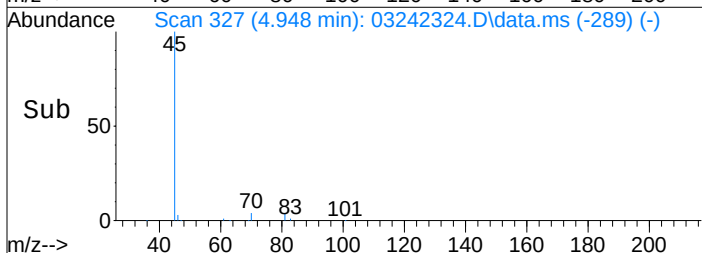
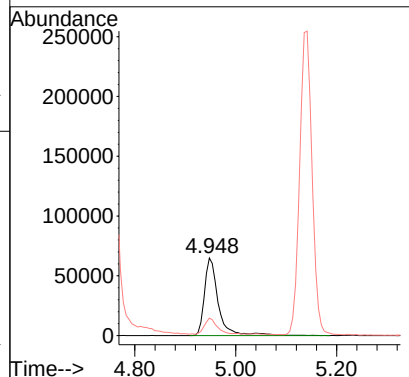
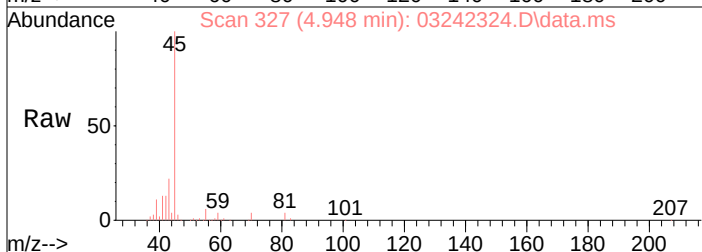
Tgt Ion: 101 Resp: 30889
Ion Ratio Lower Upper
101 100
103 64.9 45.2 85.2





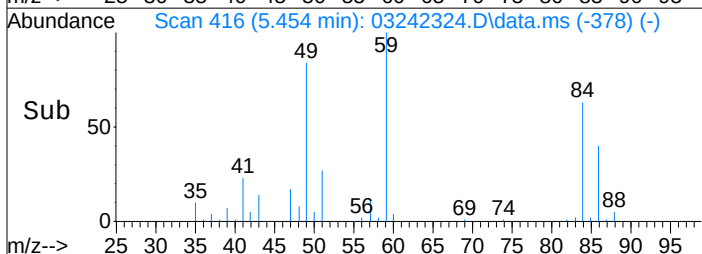
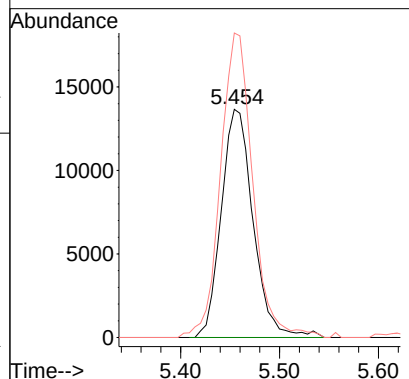
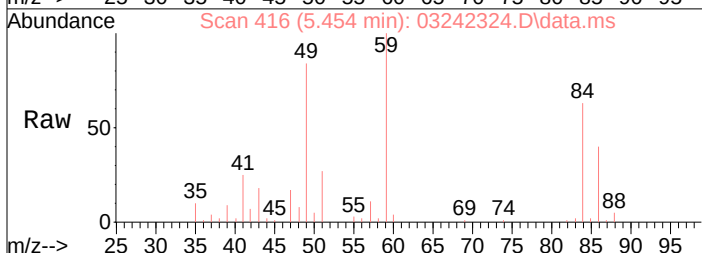
#15
 2-Propanol (Isopropanol)
 Concen: 2.08 ng
 RT: 4.95 min Scan# 327
 Delta R.T. -0.034 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 20:24

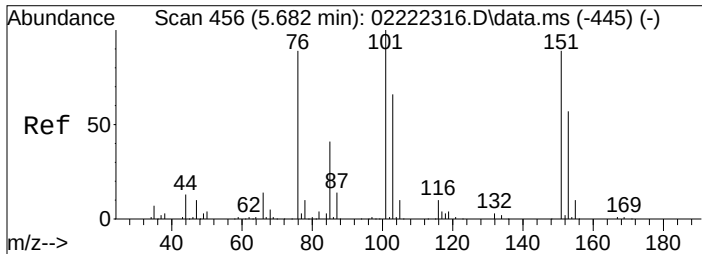
Tgt Ion: 45 Resp: 124811
 Ion Ratio Lower Upper
 45 100
 43 22.7 0.0 39.7



#19
 Methylene Chloride
 Concen: 1.40 ng
 RT: 5.45 min Scan# 416
 Delta R.T. -0.034 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 20:24

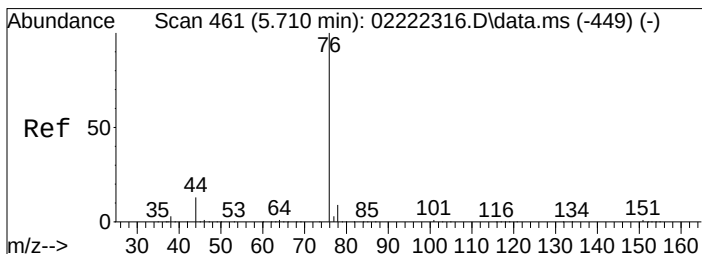
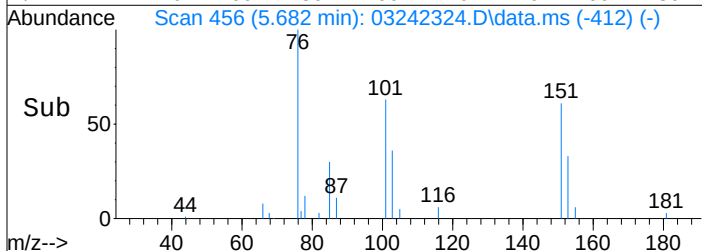
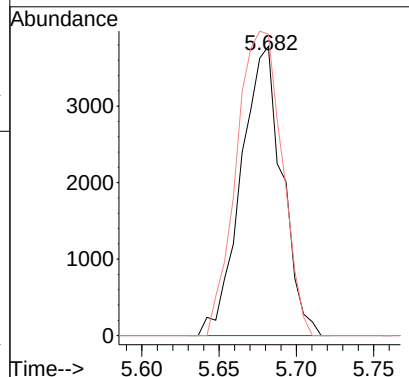
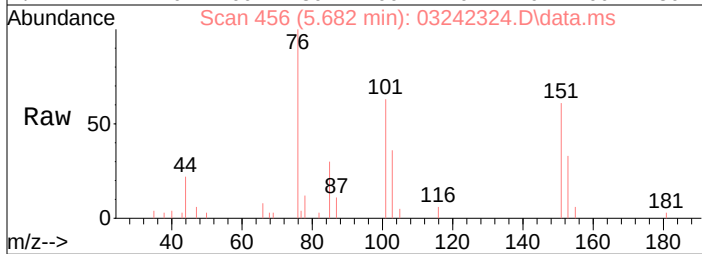
Tgt Ion: 84 Resp: 30595
 Ion Ratio Lower Upper
 84 100
 49 134.8 101.3 151.3





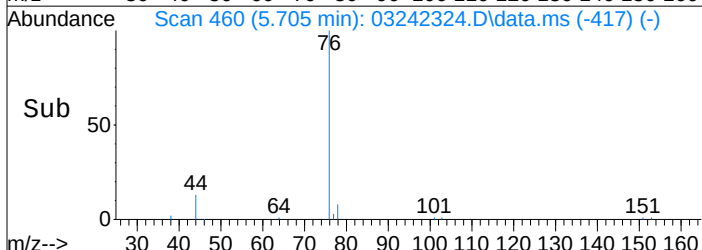
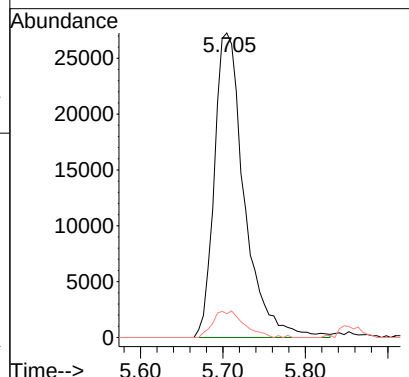
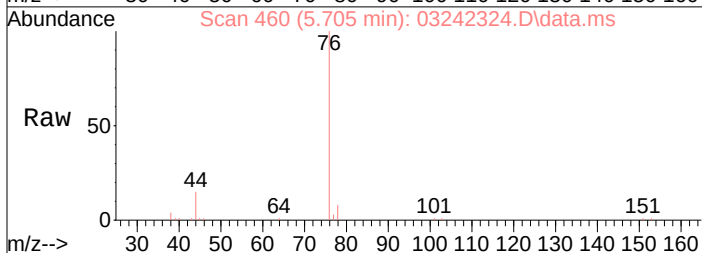
#21
 Trichlorotrifluoroethane
 Concen: 0.33 ng
 RT: 5.68 min Scan# 456
 Delta R.T. 0.000 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 20:24

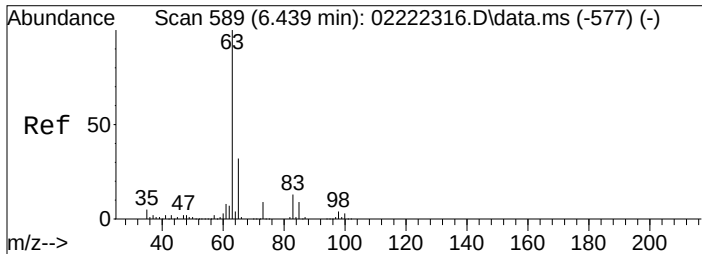
Tgt Ion: 151 Resp: 7039
 Ion Ratio Lower Upper
 151 100
 101 116.5 96.3 136.3



#22
 Carbon Disulfide
 Concen: 0.80 ng
 RT: 5.70 min Scan# 460
 Delta R.T. -0.006 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 20:24

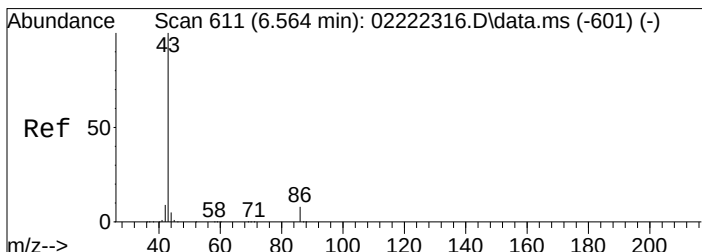
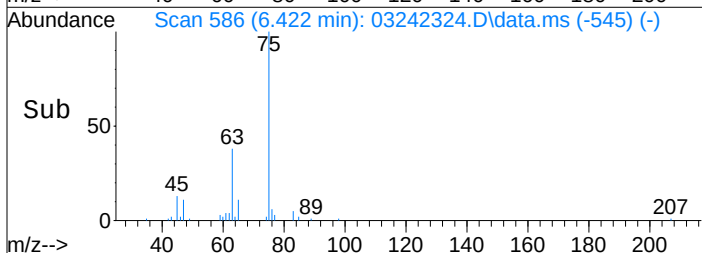
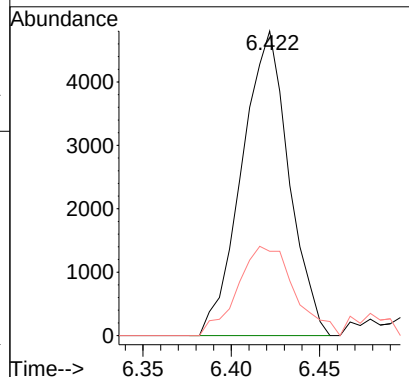
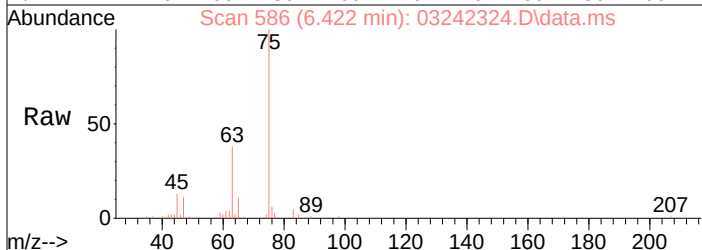
Tgt Ion: 76 Resp: 68716
 Ion Ratio Lower Upper
 76 100
 78 9.0 0.0 29.3





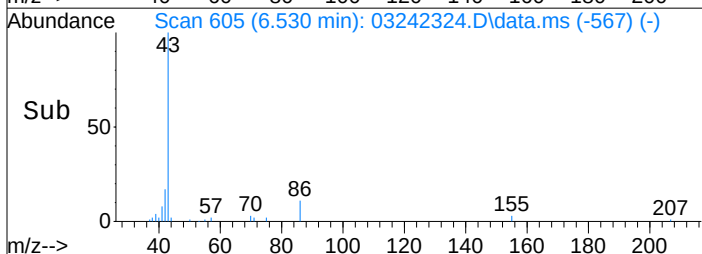
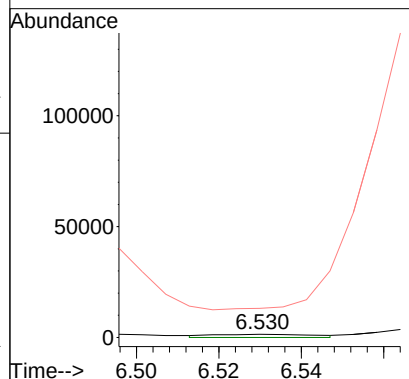
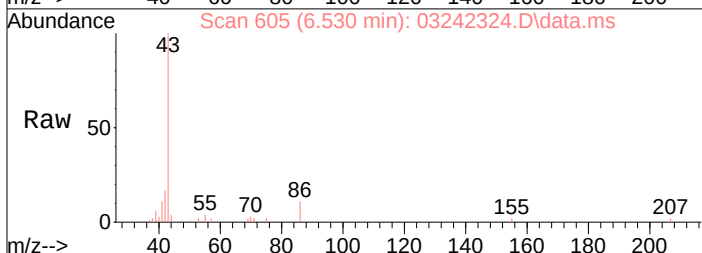
#24
 1,1-Dichloroethane
 Concen: 0.23 ng
 RT: 6.42 min Scan# 586
 Delta R.T. -0.017 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 20:24

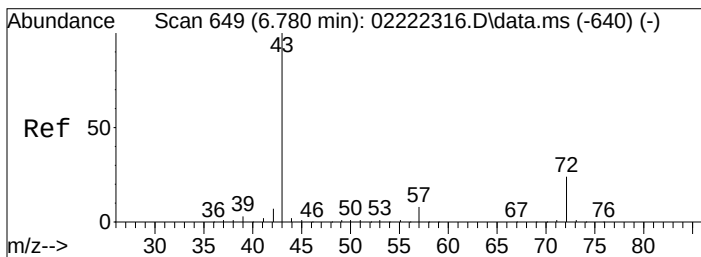
Tgt Ion:	63	Resp:	8915
Ion Ratio		Lower	Upper
63	100		
65	35.2	12.0	52.0



#26
 Vinyl Acetate
 Concen: 0.62 ng
 RT: 6.53 min Scan# 605
 Delta R.T. -0.034 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 20:24

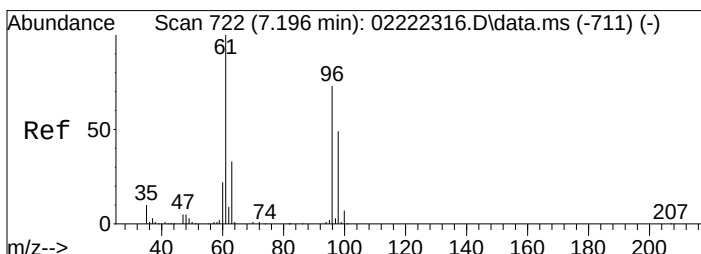
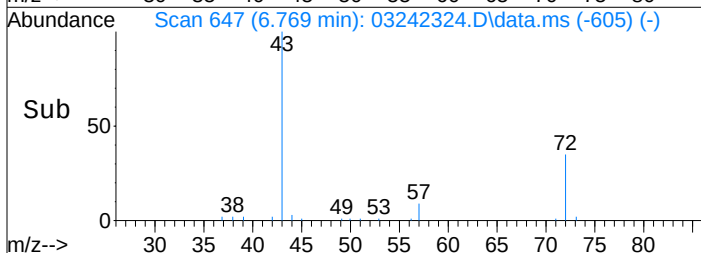
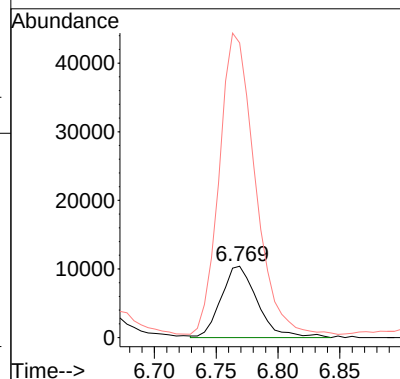
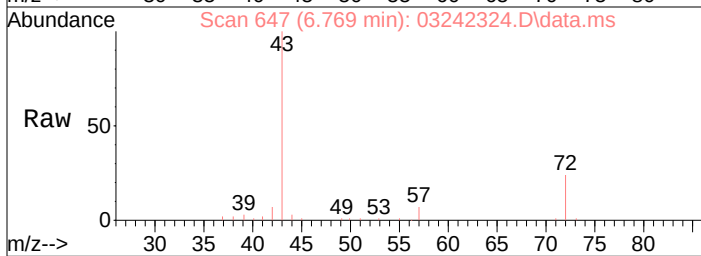
Tgt Ion:	86	Resp:	2484
Ion Ratio		Lower	Upper
86	100		
43	0.0	1292.1	1332.1#





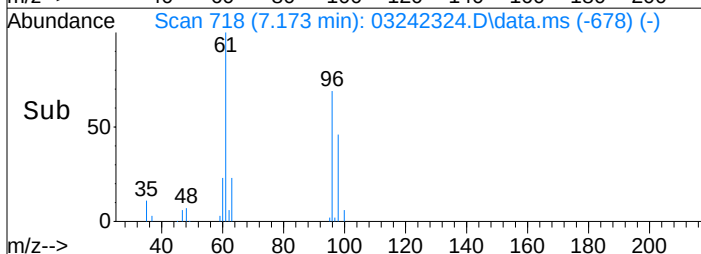
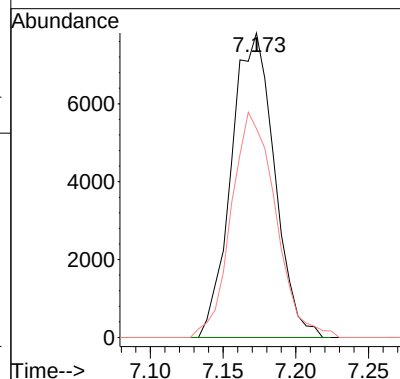
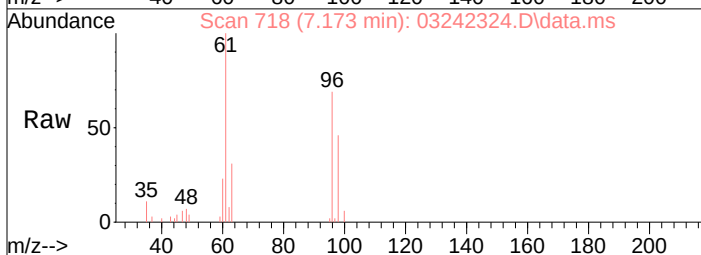
#27
2-Butanone (MEK)
Concen: 1.61 ng
RT: 6.77 min Scan# 647
Delta R.T. -0.011 min
Lab File: 03242324.D
Acq: 24 Mar 2023 20:24

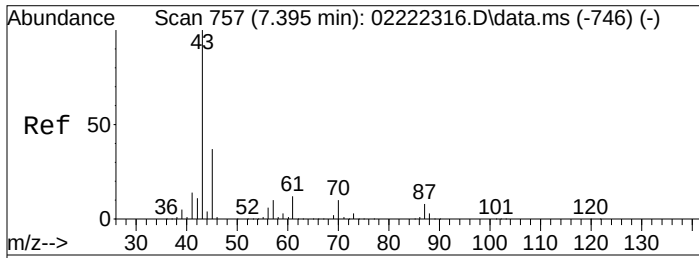
Tgt Ion: 72 Resp: 21295
Ion Ratio Lower Upper
72 100
43 414.3 400.5 440.5



#28
cis-1,2-Dichloroethene
Concen: 0.51 ng
RT: 7.17 min Scan# 718
Delta R.T. -0.023 min
Lab File: 03242324.D
Acq: 24 Mar 2023 20:24

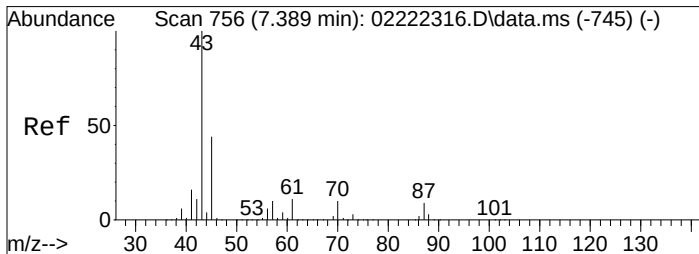
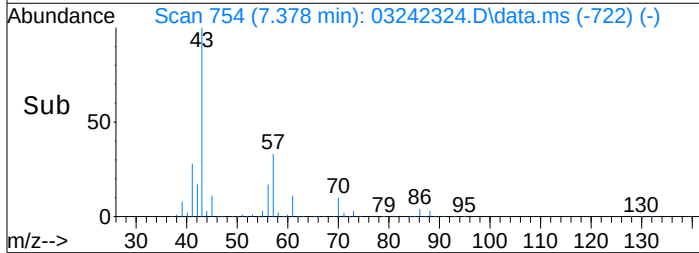
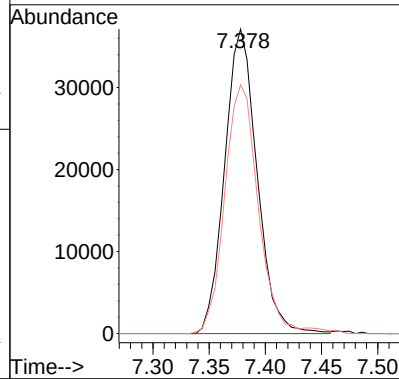
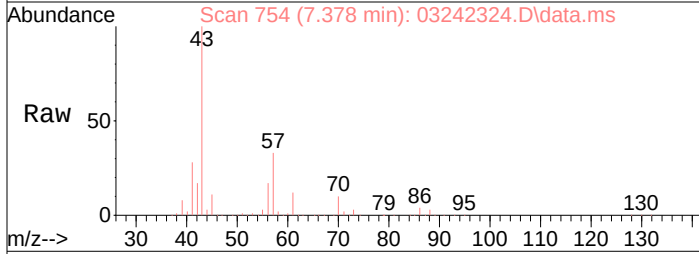
Tgt Ion: 61 Resp: 16114
Ion Ratio Lower Upper
61 100
96 76.2 54.5 94.5





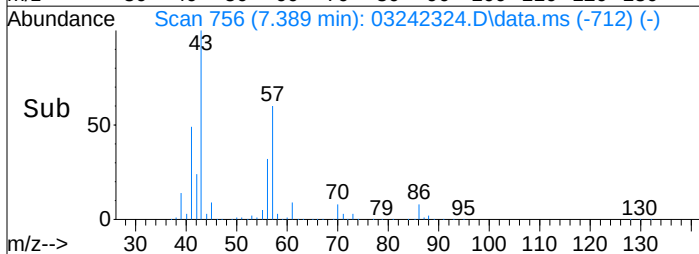
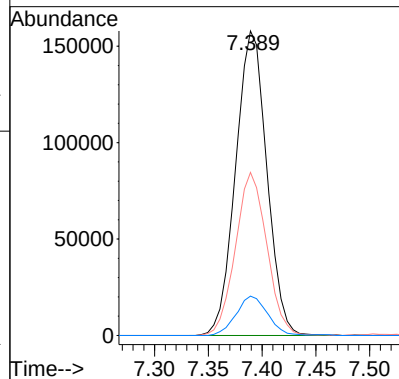
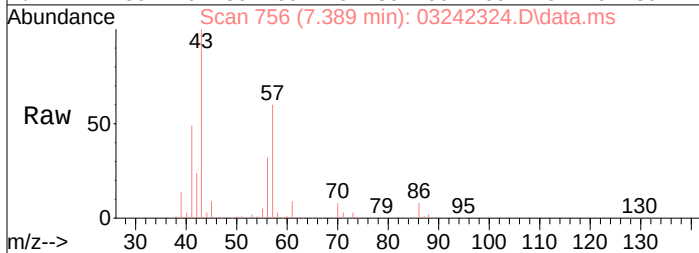
#30
Ethyl Acetate
Concen: 8.61 ng
RT: 7.38 min Scan# 754
Delta R.T. -0.017 min
Lab File: 03242324.D
Acq: 24 Mar 2023 20:24

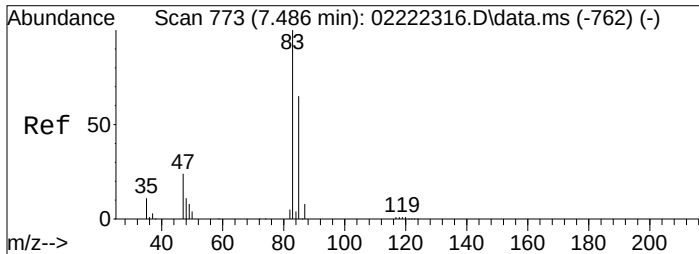
Tgt Ion: 61 Resp: 74710
Ion Ratio Lower Upper
61 100
70 85.2 65.6 105.6



#31
n-Hexane
Concen: 9.55 ng
RT: 7.39 min Scan# 756
Delta R.T. 0.000 min
Lab File: 03242324.D
Acq: 24 Mar 2023 20:24

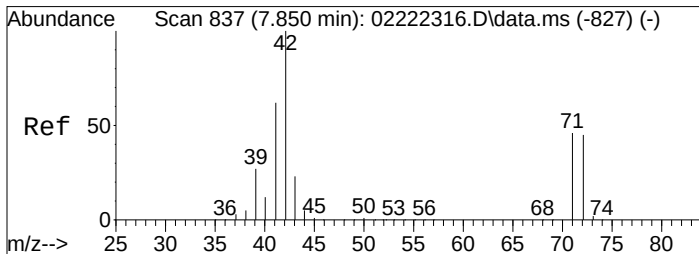
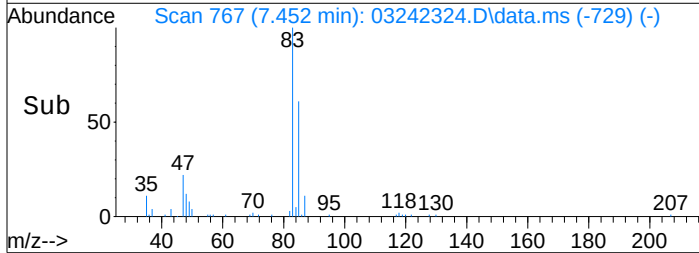
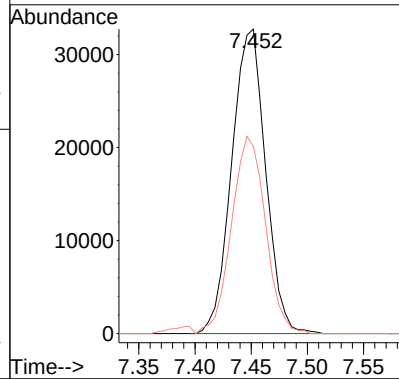
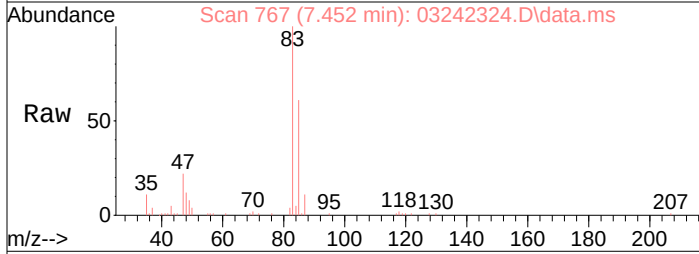
Tgt Ion: 57 Resp: 318799
Ion Ratio Lower Upper
57 100
56 53.9 44.0 66.0
86 13.1 11.5 17.3





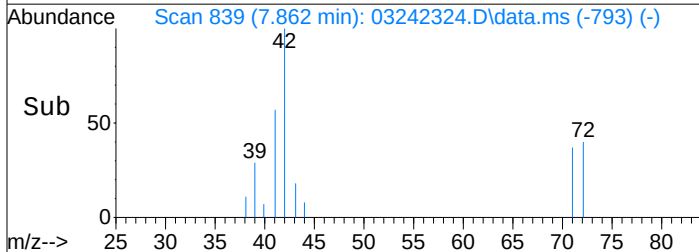
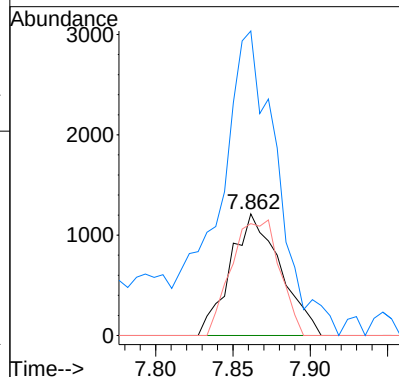
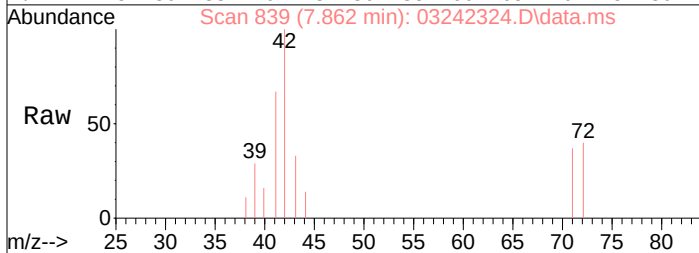
#32
Chloroform
Concen: 1.74 ng
RT: 7.45 min Scan# 767
Delta R.T. -0.034 min
Lab File: 03242324.D
Acq: 24 Mar 2023 20:24

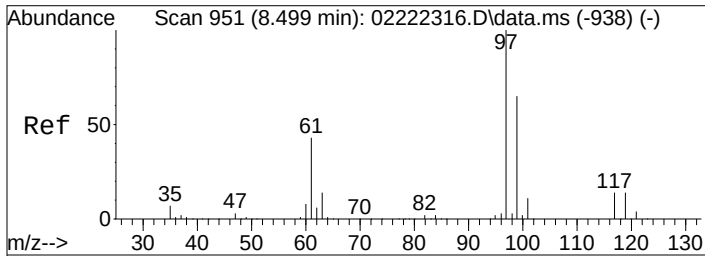
Tgt Ion: 83 Resp: 68694
Ion Ratio Lower Upper
83 100
85 64.9 45.0 85.0



#34
Tetrahydrofuran (THF)
Concen: 0.20 ng
RT: 7.86 min Scan# 839
Delta R.T. 0.011 min
Lab File: 03242324.D
Acq: 24 Mar 2023 20:24

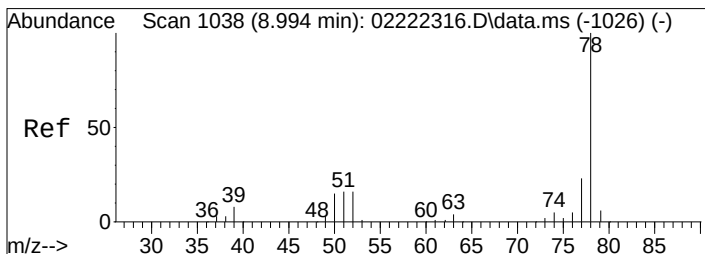
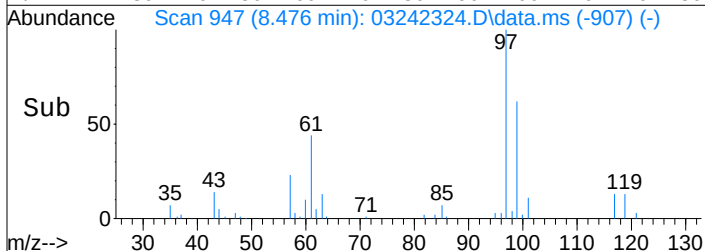
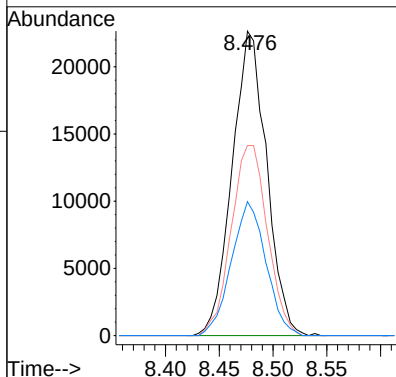
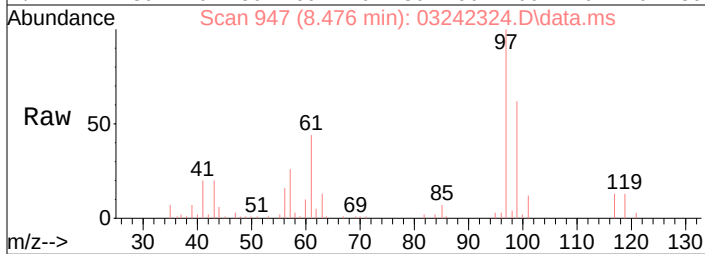
Tgt Ion: 72 Resp: 2738
Ion Ratio Lower Upper
72 100
71 91.0 79.8 119.8
42 290.5 199.0 239.0#





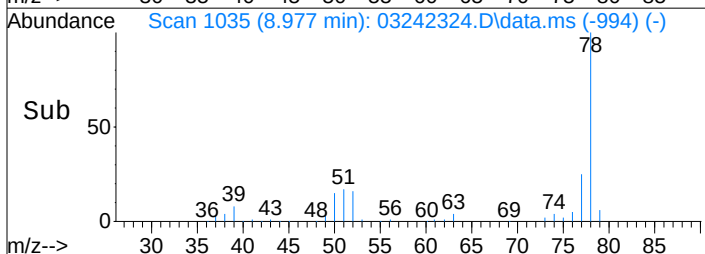
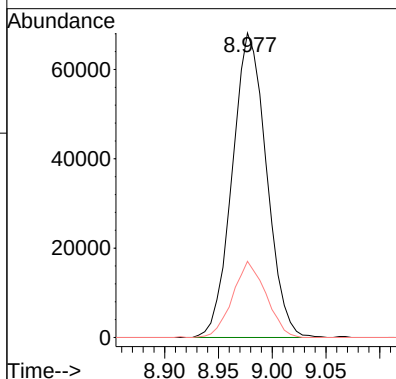
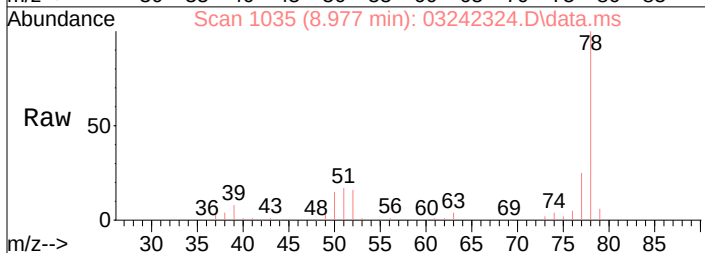
#38
 1,1,1-Trichloroethane
 Concen: 1.43 ng
 RT: 8.48 min Scan# 947
 Delta R.T. -0.023 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 20:24

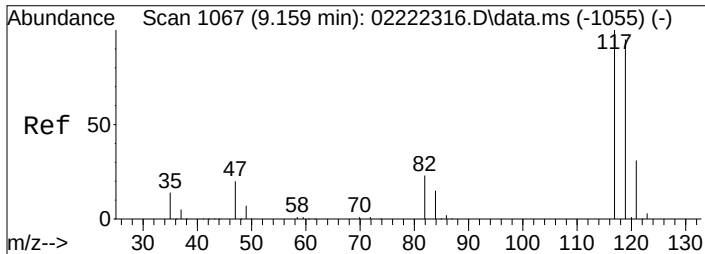
Tgt Ion: 97	Resp: 50643
Ion Ratio	Lower Upper
97 100	
99 65.6	44.9 84.9
61 44.1	23.5 63.5



#41
 Benzene
 Concen: 1.81 ng
 RT: 8.98 min Scan# 1035
 Delta R.T. -0.017 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 20:24

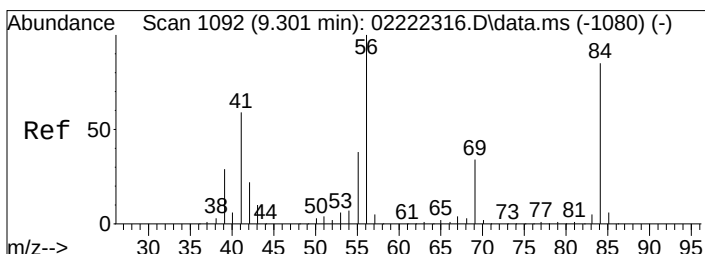
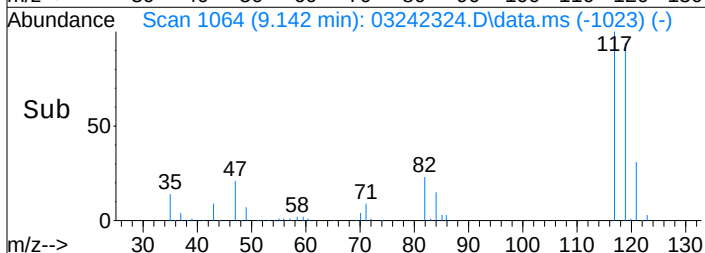
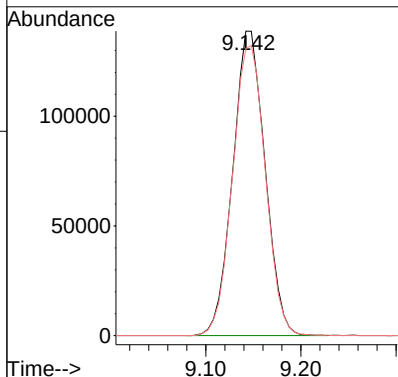
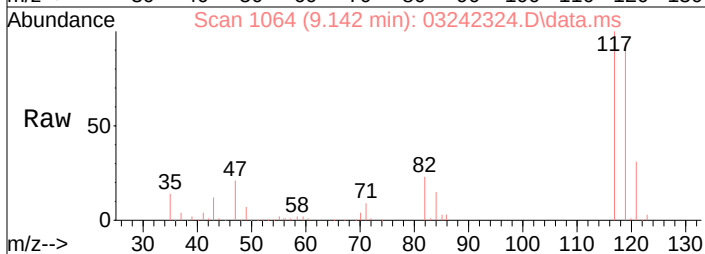
Tgt Ion: 78	Resp: 151165
Ion Ratio	Lower Upper
78 100	
77 24.3	3.7 43.7





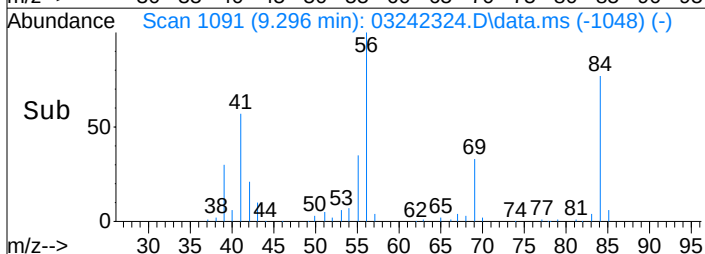
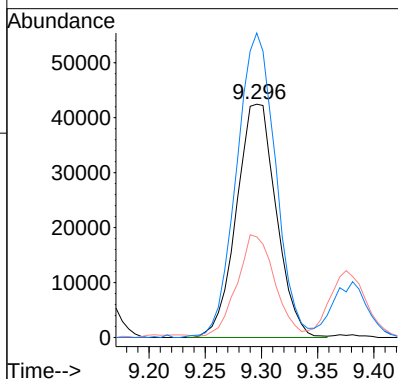
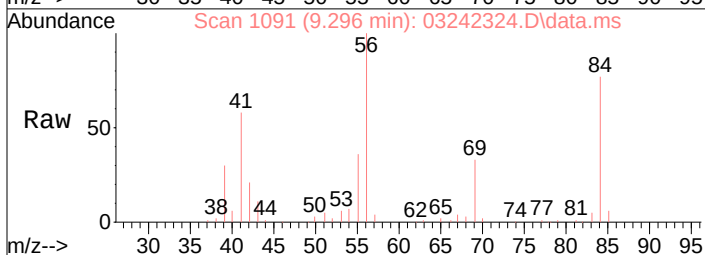
#42
Carbon Tetrachloride
Concen: 10.46 ng
RT: 9.14 min Scan# 1064
Delta R.T. -0.017 min
Lab File: 03242324.D
Acq: 24 Mar 2023 20:24

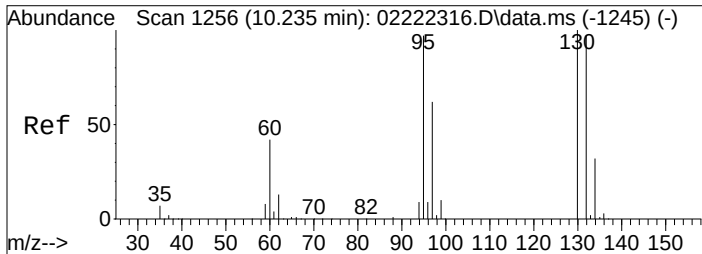
Tgt Ion: 117 Resp: 327472
Ion Ratio Lower Upper
117 100
119 96.9 75.7 115.7



#43
Cyclohexane
Concen: 3.43 ng
RT: 9.30 min Scan# 1091
Delta R.T. -0.006 min
Lab File: 03242324.D
Acq: 24 Mar 2023 20:24

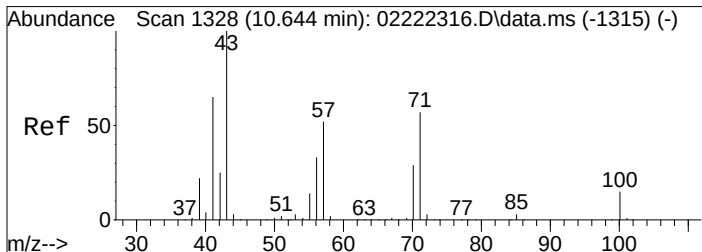
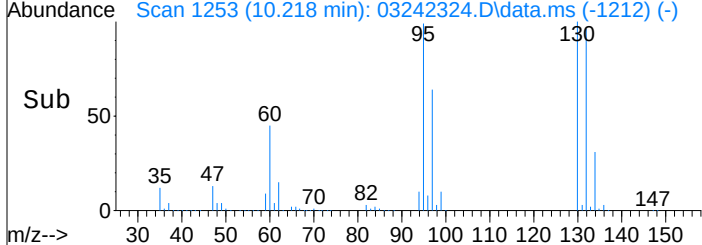
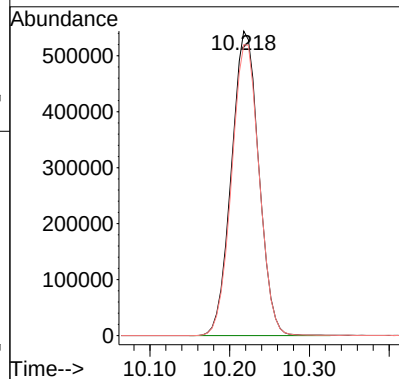
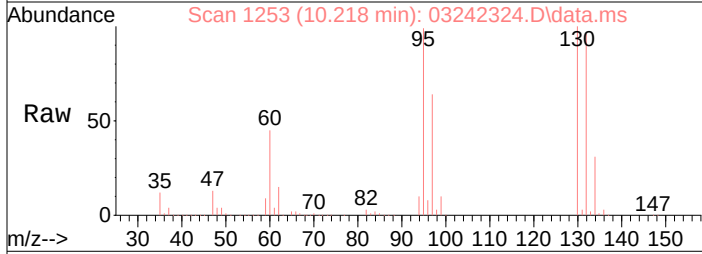
Tgt Ion: 84 Resp: 104854
Ion Ratio Lower Upper
84 100
69 40.7 20.0 60.0
56 127.7 98.5 138.5





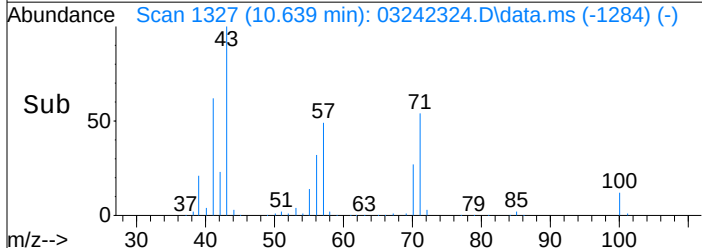
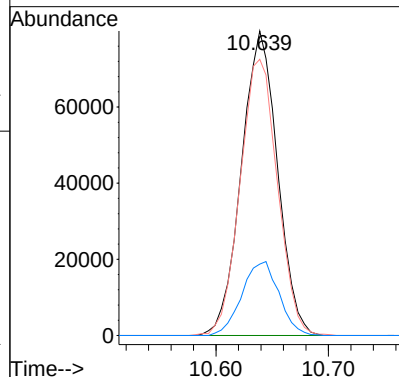
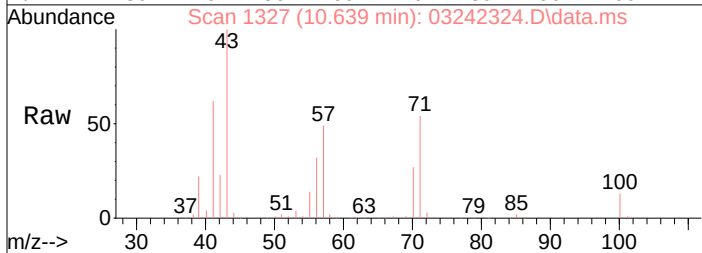
#47
 Trichloroethene
 Concen: 53.03 ng
 RT: 10.22 min Scan# 1253
 Delta R.T. -0.017 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 20:24

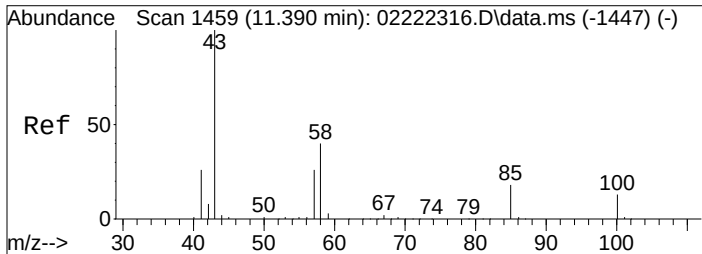
Tgt Ion: 130 Resp: 1296186
 Ion Ratio Lower Upper
 130 100
 132 96.4 76.3 116.3



#51
 n-Heptane
 Concen: 8.88 ng
 RT: 10.64 min Scan# 1327
 Delta R.T. -0.006 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 20:24

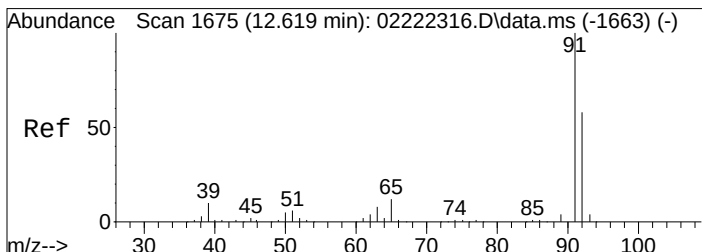
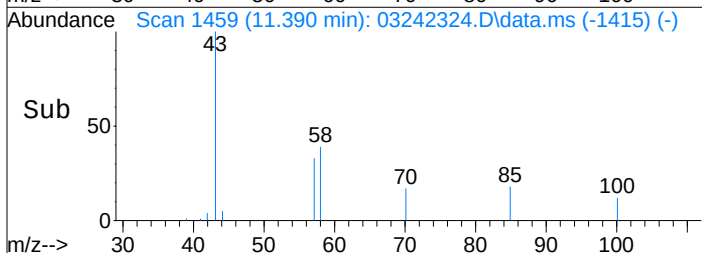
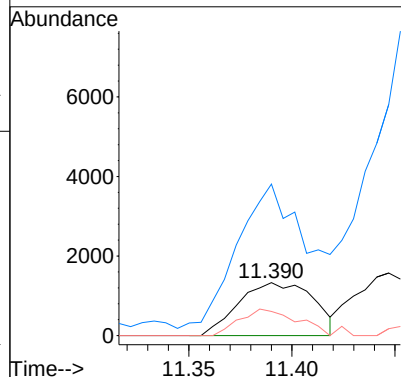
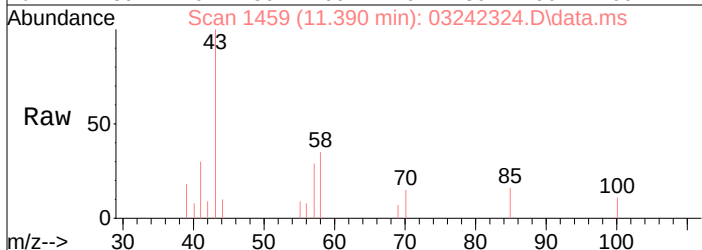
Tgt Ion: 71 Resp: 179271
 Ion Ratio Lower Upper
 71 100
 57 93.7 71.7 111.7
 100 24.9 5.8 45.8





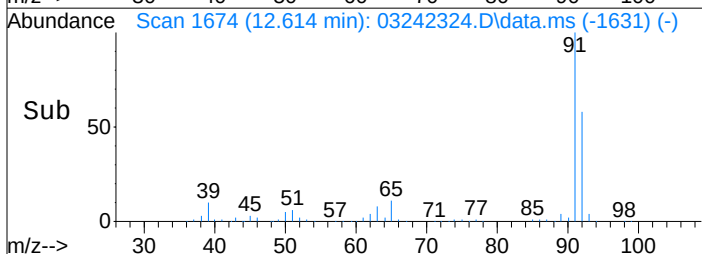
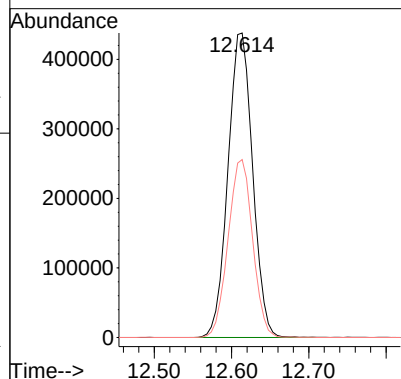
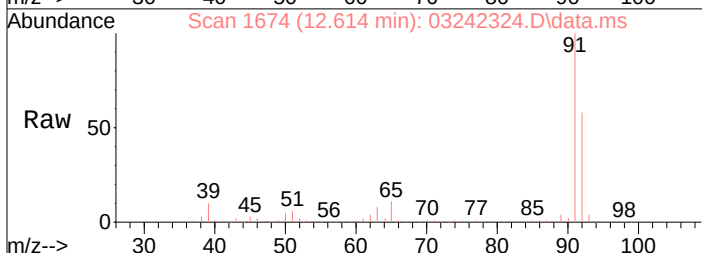
#53
 4-Methyl-2-pentanone
 Concen: 0.19 ng
 RT: 11.39 min Scan# 1459
 Delta R.T. 0.000 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 20:24

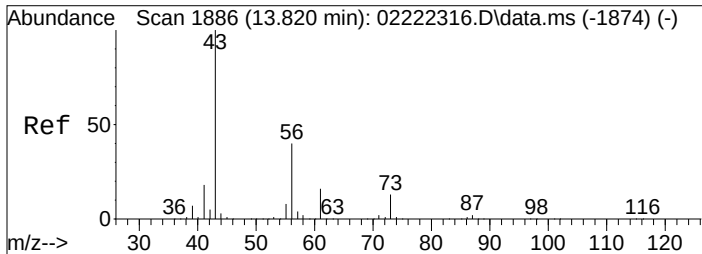
Tgt Ion:	58	Resp:	3373
Ion Ratio	Lower	Upper	
58	100		
85	40.5	38.6	58.0
43	279.3	202.2	303.2



#58
 Toluene
 Concen: 9.77 ng
 RT: 12.61 min Scan# 1674
 Delta R.T. -0.006 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 20:24

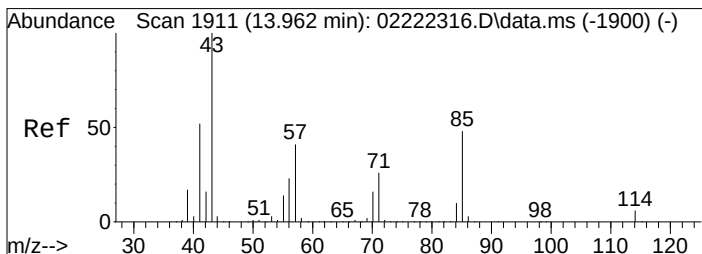
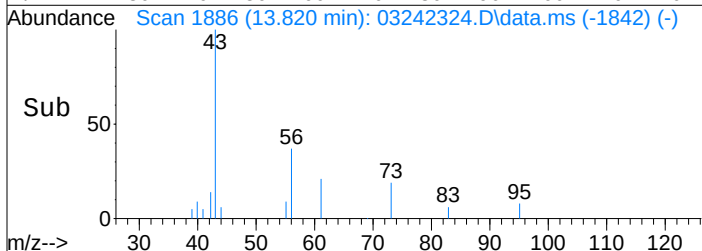
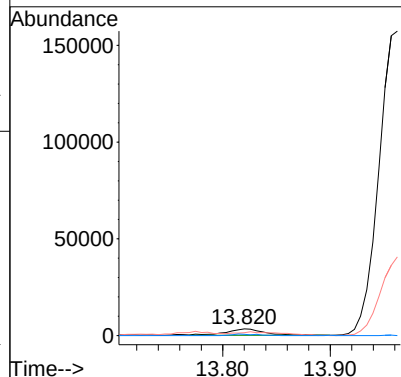
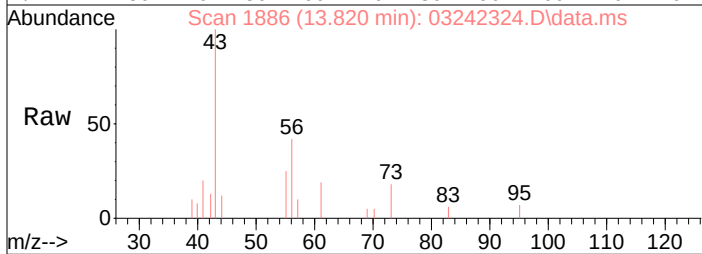
Tgt Ion:	91	Resp:	972661
Ion Ratio	Lower	Upper	
91	100		
92	58.1	38.0	78.0





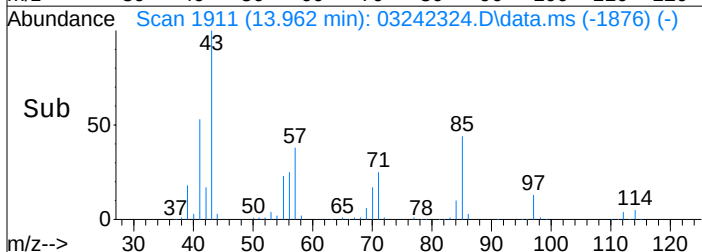
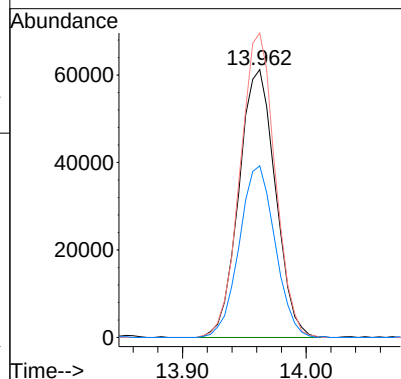
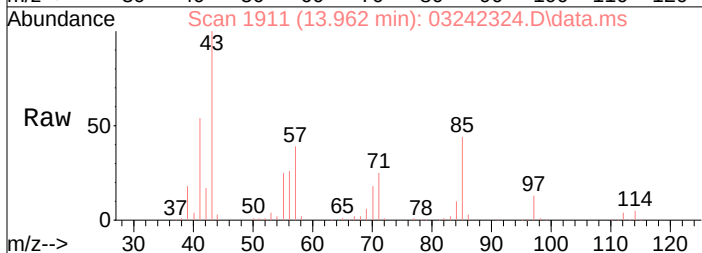
#62
 n-Butyl Acetate
 Concen: 0.14 ng
 RT: 13.82 min Scan# 1886
 Delta R.T. 0.000 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 20:24

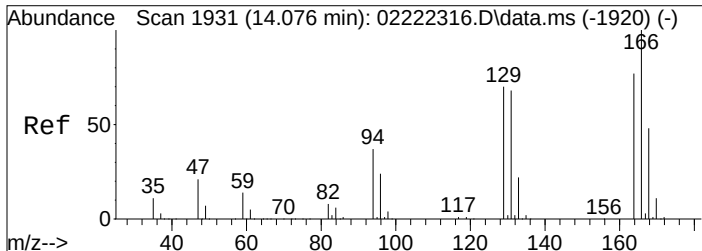
Tgt Ion:	43	Resp:	7955
Ion Ratio		Lower	Upper
43	100		
56	72.9	20.0	60.0#
73	15.8	0.0	33.2



#63
 n-Octane
 Concen: 6.45 ng
 RT: 13.96 min Scan# 1911
 Delta R.T. 0.000 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 20:24

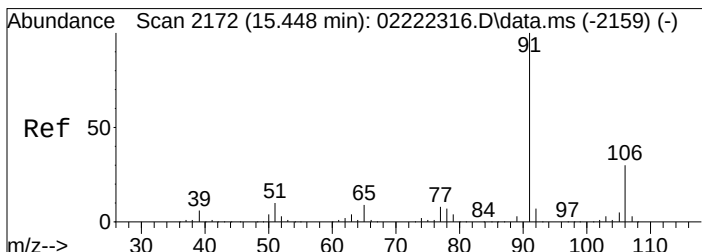
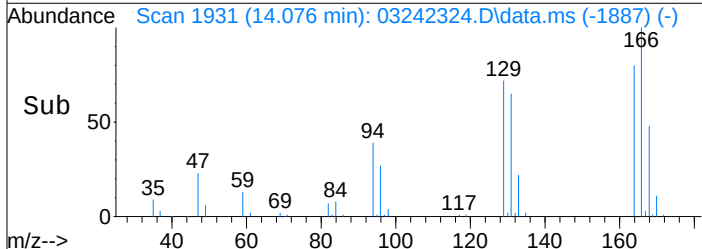
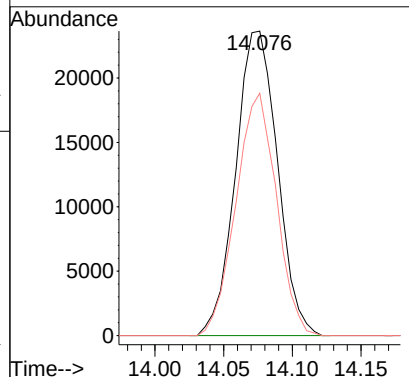
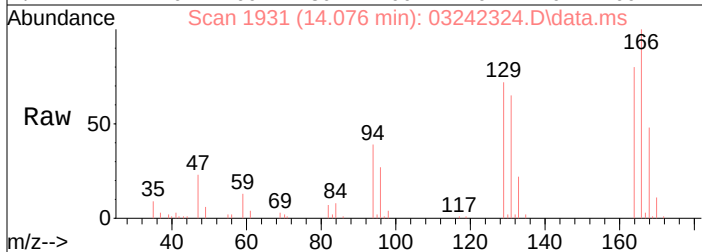
Tgt Ion:	57	Resp:	126154
Ion Ratio		Lower	Upper
57	100		
85	109.1	94.1	141.1
71	62.9	52.6	79.0





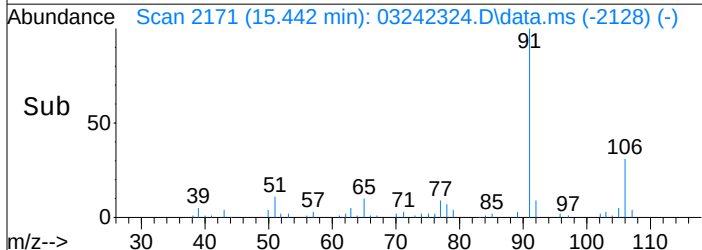
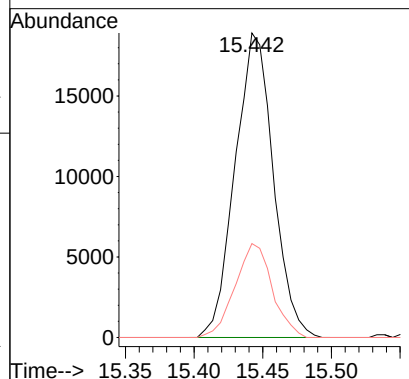
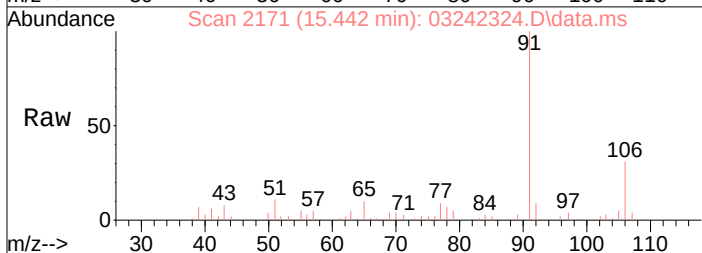
#64
Tetrachloroethene
Concen: 1.65 ng
RT: 14.08 min Scan# 1931
Delta R.T. 0.000 min
Lab File: 03242324.D
Acq: 24 Mar 2023 20:24

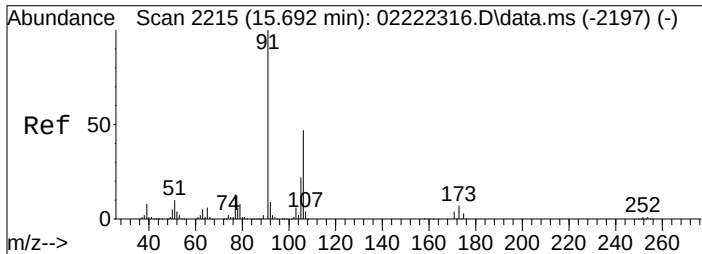
Tgt Ion: 166 Resp: 50006
Ion Ratio Lower Upper
166 100
164 77.1 57.3 97.3



#66
Ethylbenzene
Concen: 0.31 ng
RT: 15.44 min Scan# 2171
Delta R.T. -0.006 min
Lab File: 03242324.D
Acq: 24 Mar 2023 20:24

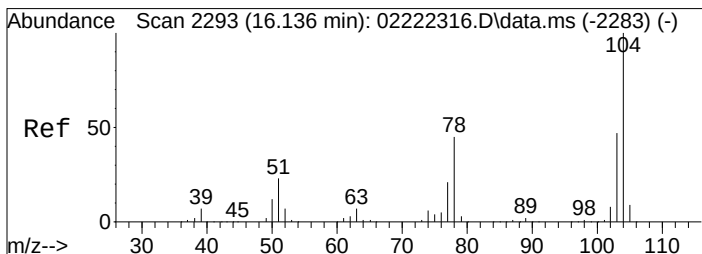
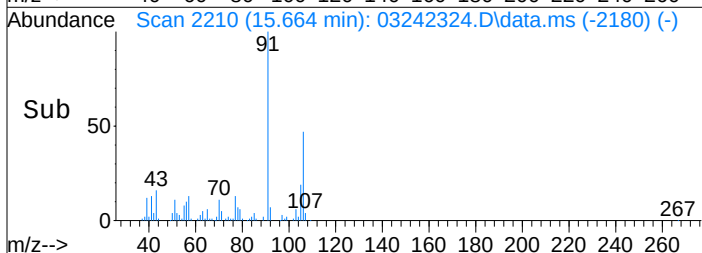
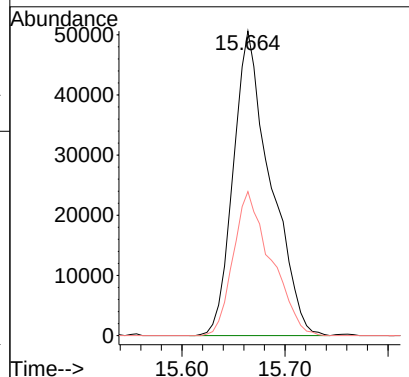
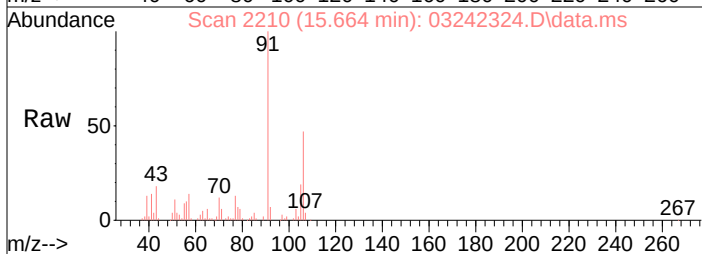
Tgt Ion: 91 Resp: 36594
Ion Ratio Lower Upper
91 100
106 30.0 10.4 50.4





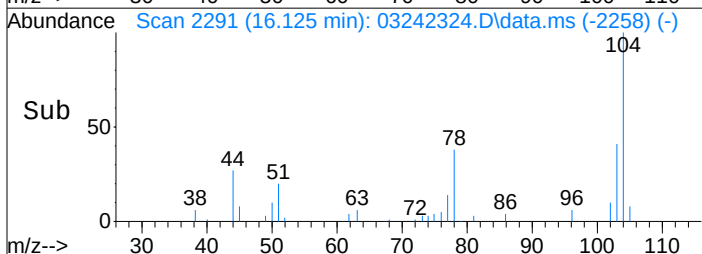
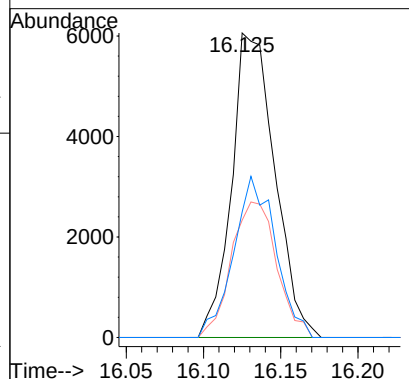
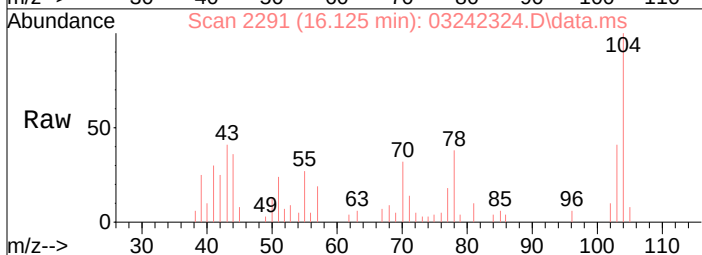
#67
 m- & p-Xylenes
 Concen: 1.33 ng
 RT: 15.66 min Scan# 2210
 Delta R.T. -0.028 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 20:24

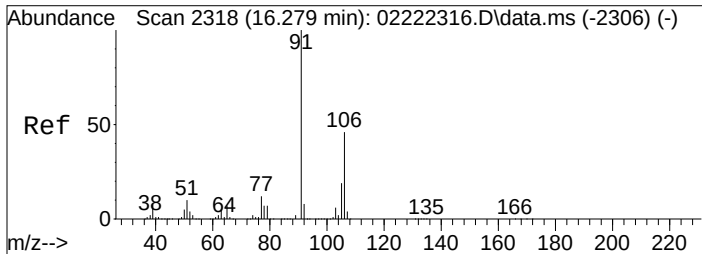
Tgt Ion:	91	Resp:	126985
Ion Ratio	Lower	Upper	
91	100		
106	48.1	26.2	66.2



#69
 Styrene
 Concen: 0.18 ng
 RT: 16.12 min Scan# 2291
 Delta R.T. -0.011 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 20:24

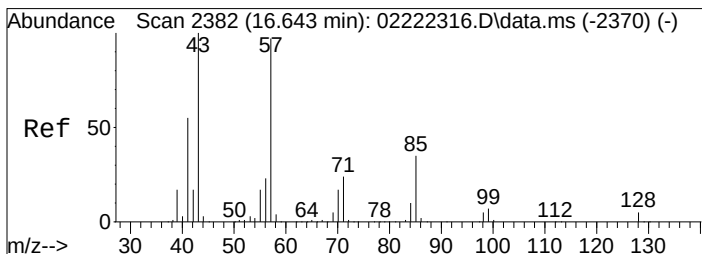
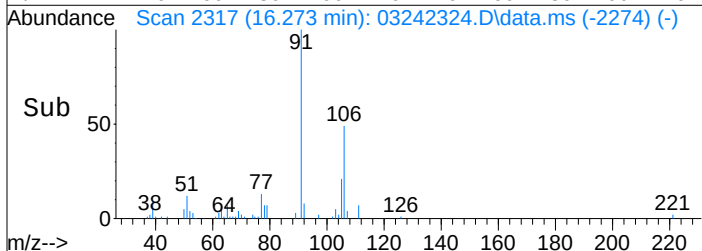
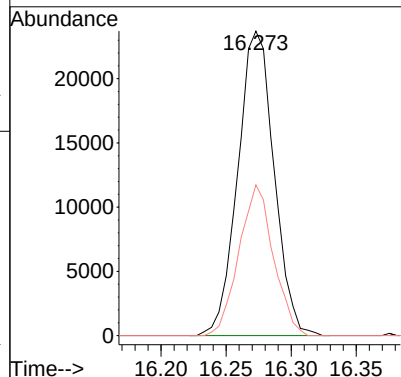
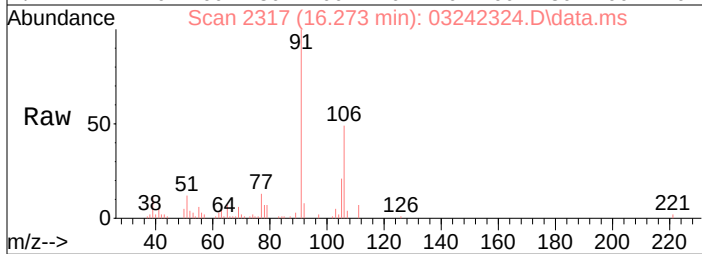
Tgt Ion:	104	Resp:	11788
Ion Ratio	Lower	Upper	
104	100		
78	46.8	24.7	64.7
103	51.3	27.8	67.8





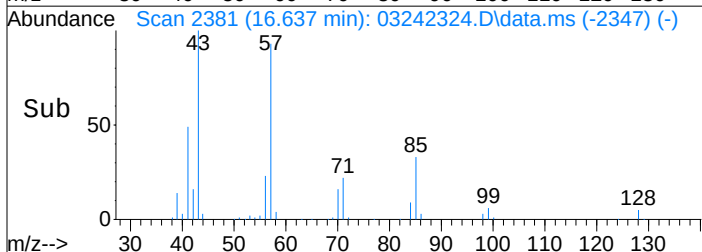
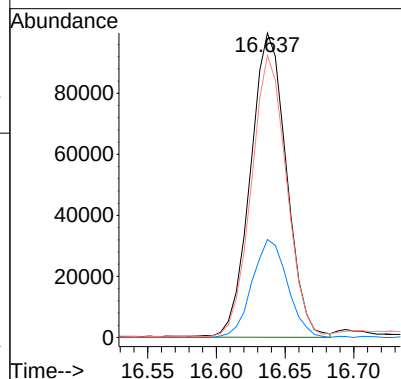
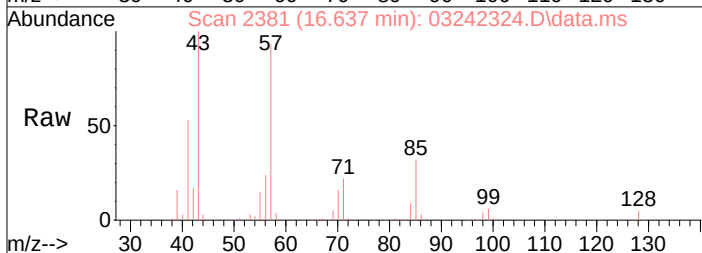
#70
o-Xylene
Concen: 0.50 ng
RT: 16.27 min Scan# 2317
Delta R.T. -0.006 min
Lab File: 03242324.D
Acq: 24 Mar 2023 20:24

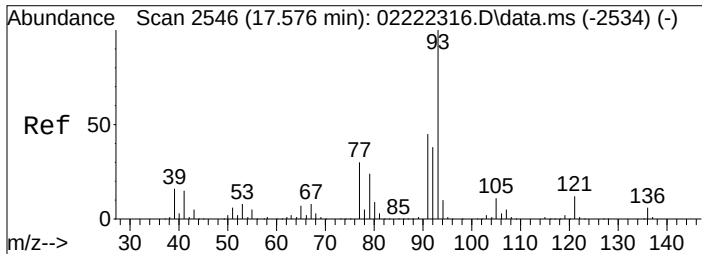
Tgt Ion: 91 Resp: 45930
Ion Ratio Lower Upper
91 100
106 47.0 25.4 65.4



#71
n-Nonane
Concen: 4.11 ng
RT: 16.64 min Scan# 2381
Delta R.T. -0.006 min
Lab File: 03242324.D
Acq: 24 Mar 2023 20:24

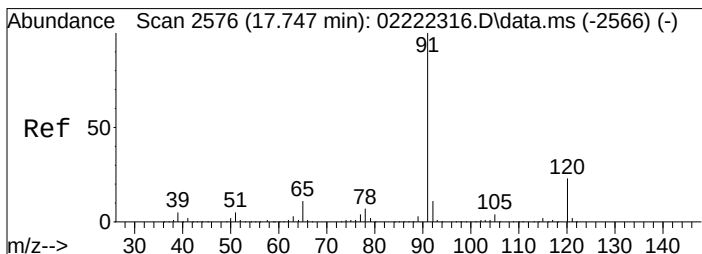
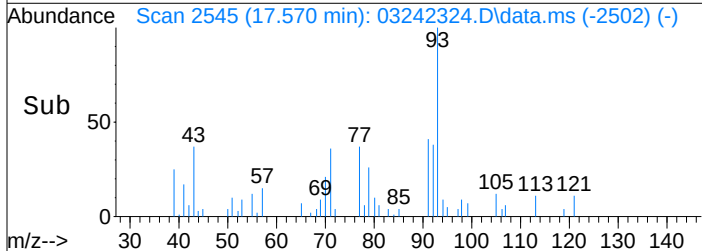
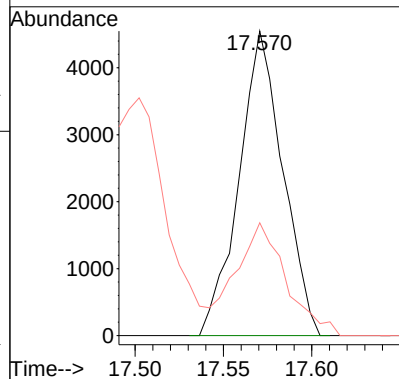
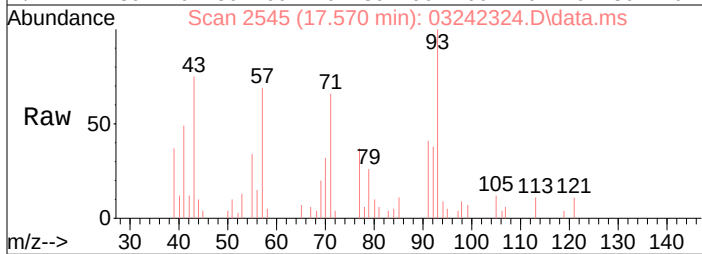
Tgt Ion: 43 Resp: 181670
Ion Ratio Lower Upper
43 100
57 90.5 74.2 114.2
85 31.6 14.2 54.2





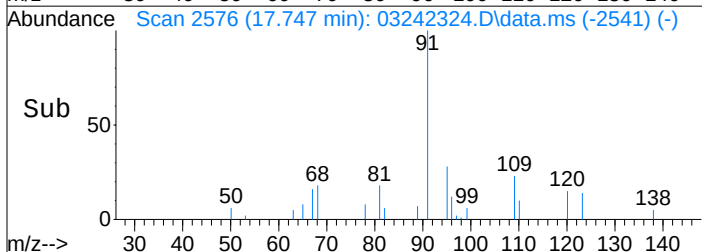
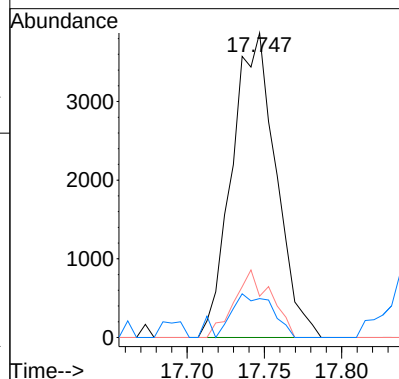
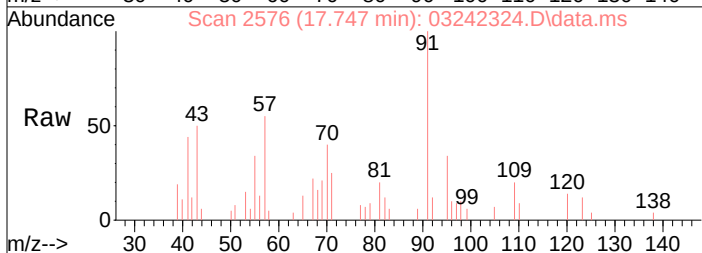
#75
 alpha-Pinene
 Concen: 0.15 ng
 RT: 17.57 min Scan# 2545
 Delta R.T. -0.006 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 20:24

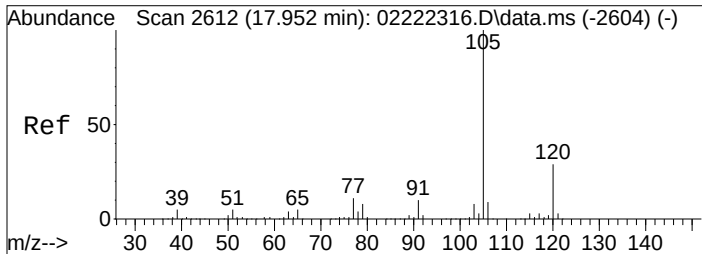
Tgt Ion	Ratio	Resp	Lower	Upper
93	100	7863		
77	42.5	11.1		51.1



#76
 n-Propylbenzene
 Concen: 0.06 ng
 RT: 17.75 min Scan# 2576
 Delta R.T. 0.000 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 20:24

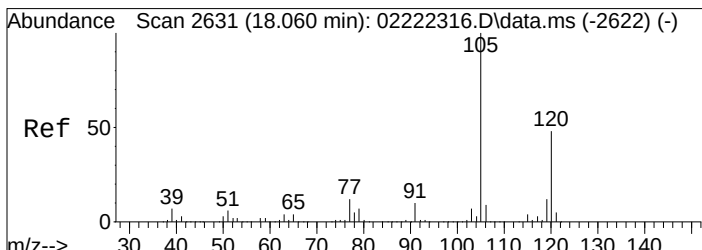
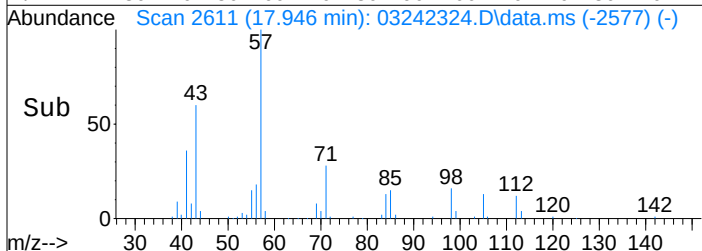
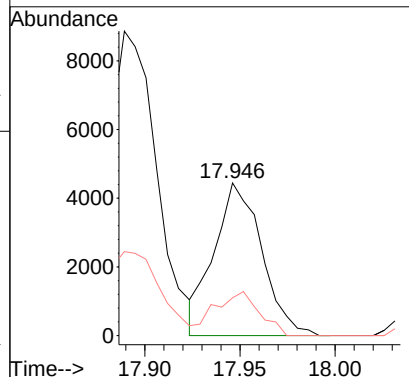
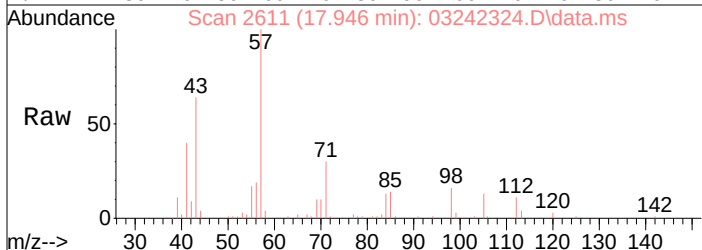
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	7642		
120	18.6	2.7		42.7
65	13.1	0.0		30.7





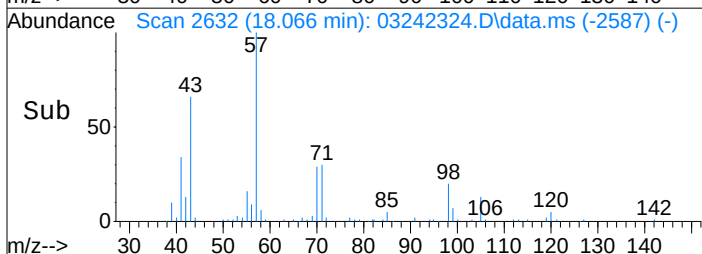
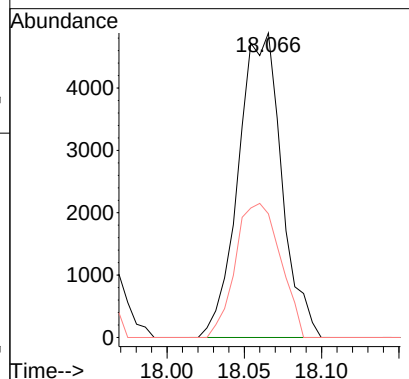
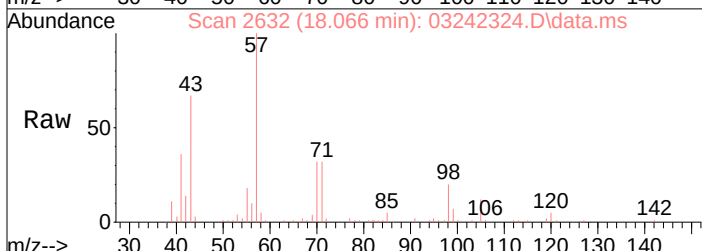
#78
 4-Ethyltoluene
 Concen: 0.07 ng
 RT: 17.95 min Scan# 2611
 Delta R.T. -0.006 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 20:24

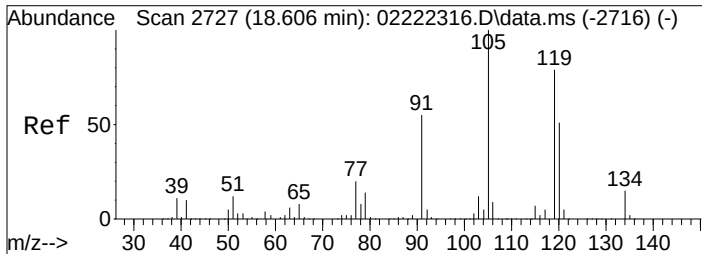
Tgt Ion:105 Resp: 7772
 Ion Ratio Lower Upper
 105 100
 120 27.0 9.1 49.1



#79
 1,3,5-Trimethylbenzene
 Concen: 0.10 ng
 RT: 18.07 min Scan# 2632
 Delta R.T. 0.006 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 20:24

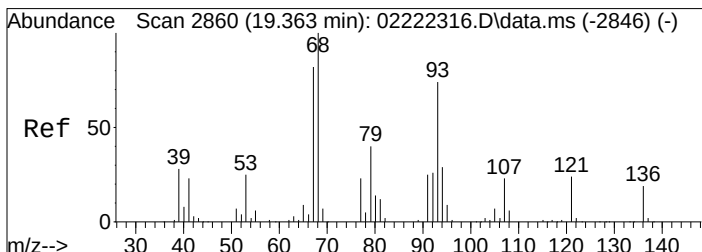
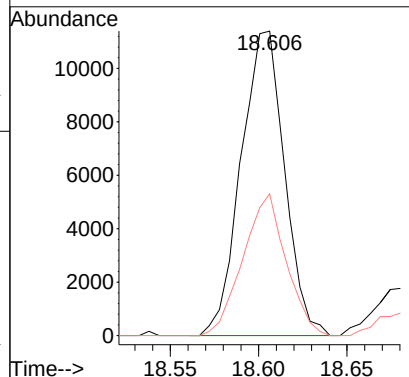
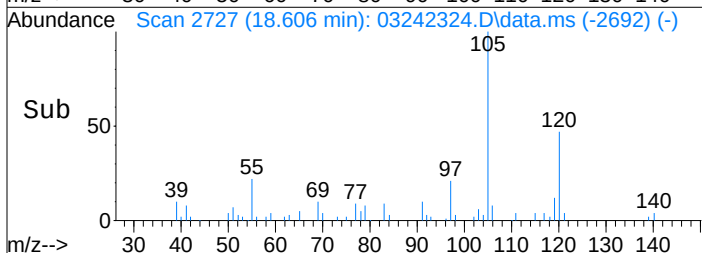
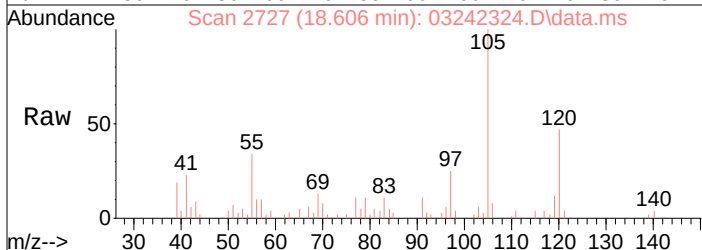
Tgt Ion:105 Resp: 9508
 Ion Ratio Lower Upper
 105 100
 120 45.9 28.4 68.4





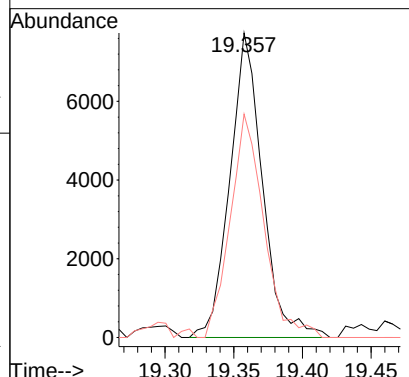
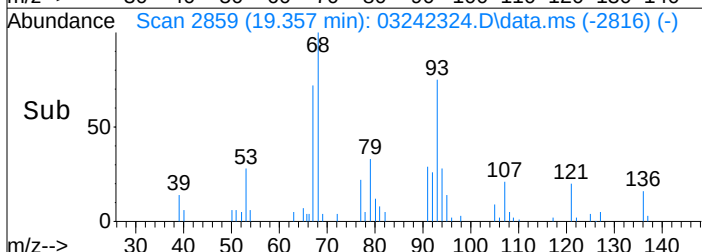
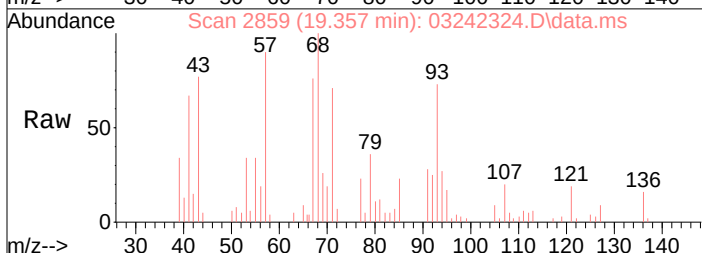
#82
 1,2,4-Trimethylbenzene
 Concen: 0.21 ng
 RT: 18.61 min Scan# 2727
 Delta R.T. 0.000 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 20:24

Tgt Ion:	105	Resp:	19512
Ion Ratio		Lower	Upper
105	100		
120	46.1	32.8	72.8



#91
 d-Limonene
 Concen: 0.41 ng
 RT: 19.36 min Scan# 2859
 Delta R.T. -0.006 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 20:24

Tgt Ion:	68	Resp:	12761
Ion Ratio		Lower	Upper
68	100		
93	75.6	54.8	94.8



Data File : I:\MS13\DATA\2023_03\24\03242324.D
 Acq On : 24 Mar 2023 20:24
 Sample : P2301250-019 (1000mL)
 Misc : S35-01202301

Vial: 8
 Operator: TZ
 Inst : MS13

TZ 3/28/23

Quant Time: Mar 28 09:59:15 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.32	130	246540	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	9.38	114	1072536	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	14.88	54	203309	12.500	ng	0.00

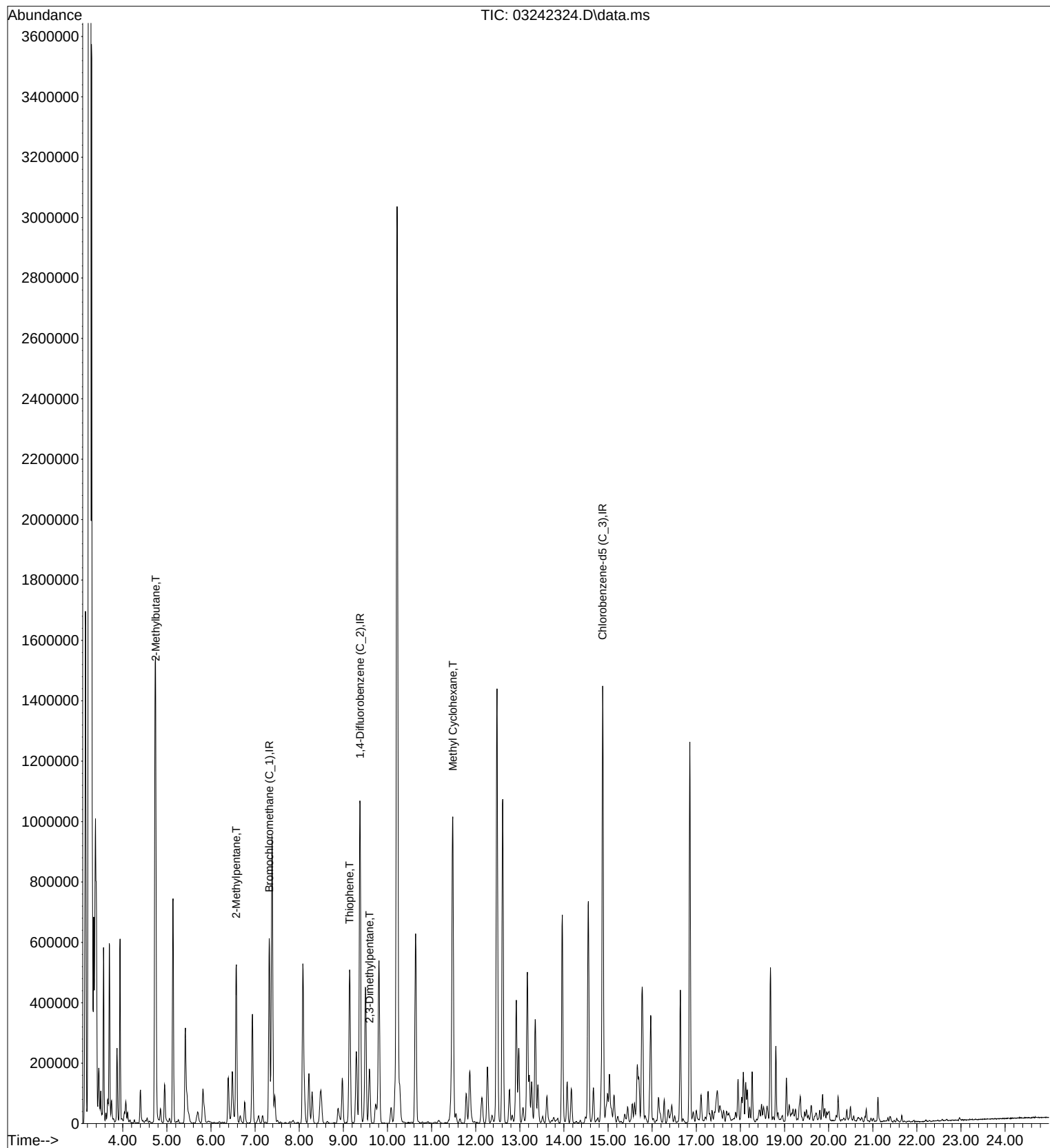
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	0.00	85	0	N.D.	d	
3) 1,1,1,2-Tetrafluoroeth...	0.00	83	0	N.D.	d	
4) 1,1-Difluoroethane	0.00	65	0	N.D.	d	
5) Chlorodifluoromethane ...	3.34	67	66	N.D.		
6) 1-Chloro-1,1-Difluoroe...	3.61	65	2589	N.D.		
7) Dichlorofluoromethane ...	4.34	67	234	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	4.75	57	214173	11.878	ng	# 72
11) Methyl Acetate	0.00	43	0	N.D.	d	
12) 2-Methylpentane	6.58	71	122663	7.120	ng	78
13) 2,2-Dichloropropane	7.39	77	197	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	9.14	84	53341	1.241	ng	# 40
17) 2,3-Dimethylpentane	9.59	56	95203	3.013	ng	95
18) Dibromomethane	9.89	174	117	N.D.		
20) Methyl Cyclohexane	11.48	55	460900	13.619	ng	87
21) 1,3-Dichloropropane	0.00	76	0	N.D.	d	
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	15.22	91	343	N.D.		
24) 1,2,3-Trichloropropane	16.42	75	103	N.D.		
25) Bromobenzene	17.11	77	204	N.D.		
26) 2-Chlorotoluene	17.67	91	57	N.D.		
27) 4-Chlorotoluene	17.75	91	7642	N.D.		
28) Indane	19.39	117	2166	N.D.		
29) Indene	19.51	115	362	N.D.		
30) 1,2,4,5-Tetramethylben...	20.69	119	1542	N.D.		
31) 1,2,3,4-Tetramethylben...	20.69	119	1542	N.D.		
32) 1,2,3,5-Tetramethylben...	21.14	119	946	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242324.D
Acq On : 24 Mar 2023 20:24
Sample : P2301250-019 (1000mL)
Misc : S35-01202301

Vial: 8
Operator: TZ
Inst : MS13

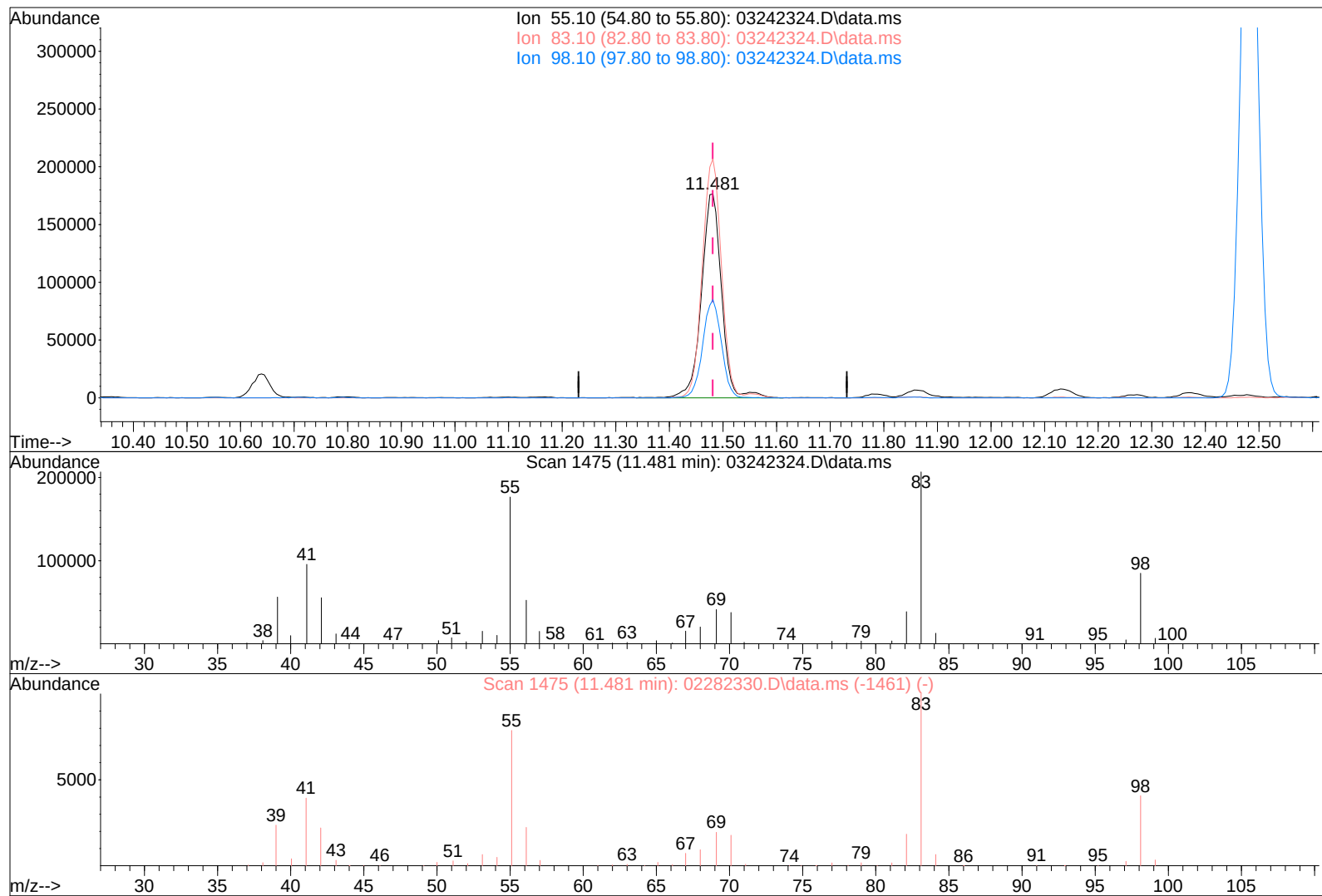
Quant Time: Mar 28 09:59:15 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242324.D
Acq On : 24 Mar 2023 20:24
Sample : P2301250-019 (1000mL)
Misc : S35-01202301

Vial: 8
Operator: TZ
Inst : MS13

Quant Time: Mar 27 16:04:16 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03242324.D\data.ms

(20) Methyl Cyclohexane (T)

11.481min (+0.000) 13.62ng

response 460900

Ion	Exp%	Act%
55.10	100	100
83.10	128.30	112.59
98.10	53.10	44.72
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG24-2

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-020

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02472

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.59 Final Pressure (psig): 3.80

Container Dilution Factor: 1.21

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.5	0.64	0.11	0.51	0.13	0.021	
74-87-3	Chloromethane	0.32	0.25	0.10	0.16	0.12	0.050	
75-01-4	Vinyl Chloride	ND	0.13	0.069	ND	0.052	0.027	
74-83-9	Bromomethane	ND	0.25	0.090	ND	0.065	0.023	
75-00-3	Chloroethane	ND	0.25	0.080	ND	0.096	0.030	
67-64-1	Acetone	4.7	6.4	1.5	2.0	2.7	0.61	J
75-69-4	Trichlorofluoromethane	1.2	0.63	0.098	0.21	0.11	0.017	
75-35-4	1,1-Dichloroethene	ND	0.13	0.090	ND	0.034	0.023	
75-09-2	Methylene Chloride	1.4	0.64	0.18	0.39	0.18	0.052	
76-13-1	Trichlorotrifluoroethane	0.53	0.65	0.092	0.069	0.085	0.012	J
75-15-0	Carbon Disulfide	0.60	1.3	0.19	0.19	0.42	0.062	J
156-60-5	trans-1,2-Dichloroethene	ND	0.13	0.090	ND	0.034	0.023	
75-34-3	1,1-Dichloroethane	ND	0.13	0.094	ND	0.033	0.023	
1634-04-4	Methyl tert-Butyl Ether	ND	0.65	0.076	ND	0.18	0.021	
78-93-3	2-Butanone (MEK)	0.55	1.3	0.13	0.19	0.43	0.045	J
156-59-2	cis-1,2-Dichloroethene	ND	0.13	0.091	ND	0.034	0.023	
67-66-3	Chloroform	0.17	0.13	0.086	0.035	0.027	0.018	
107-06-2	1,2-Dichloroethane	ND	0.13	0.071	ND	0.033	0.018	
71-55-6	1,1,1-Trichloroethane	ND	0.13	0.080	ND	0.024	0.015	
71-43-2	Benzene	0.42	0.13	0.093	0.13	0.042	0.029	
56-23-5	Carbon Tetrachloride	0.44	0.13	0.090	0.069	0.021	0.014	
110-82-7	Cyclohexane	0.26	1.3	0.18	0.076	0.37	0.053	J
78-87-5	1,2-Dichloropropane	ND	0.13	0.080	ND	0.029	0.017	
75-27-4	Bromodichloromethane	ND	0.13	0.093	ND	0.020	0.014	
79-01-6	Trichloroethene	1.1	0.13	0.087	0.21	0.025	0.016	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG24-2

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-020

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02472

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.59 Final Pressure (psig): 3.80

Container Dilution Factor: 1.21

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.65	0.10	ND	0.14	0.022	
108-10-1	4-Methyl-2-pentanone	ND	1.3	0.088	ND	0.32	0.022	
10061-02-6	trans-1,3-Dichloropropene	ND	0.62	0.13	ND	0.14	0.029	
79-00-5	1,1,2-Trichloroethane	ND	0.13	0.065	ND	0.024	0.012	
108-88-3	Toluene	1.2	0.64	0.079	0.33	0.17	0.021	
591-78-6	2-Hexanone	ND	1.3	0.080	ND	0.33	0.020	
124-48-1	Dibromochloromethane	ND	0.13	0.085	ND	0.016	0.0099	
106-93-4	1,2-Dibromoethane	ND	0.13	0.075	ND	0.017	0.0098	
127-18-4	Tetrachloroethene	0.63	0.13	0.083	0.092	0.020	0.012	
108-90-7	Chlorobenzene	ND	0.64	0.086	ND	0.14	0.019	
100-41-4	Ethylbenzene	0.15	0.64	0.091	0.035	0.15	0.021	J
179601-23-1	m,p-Xylenes	0.51	1.3	0.17	0.12	0.31	0.039	J
75-25-2	Bromoform	ND	0.65	0.13	ND	0.063	0.013	
100-42-5	Styrene	ND	0.64	0.10	ND	0.15	0.024	
95-47-6	o-Xylene	0.23	0.64	0.093	0.054	0.15	0.021	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	0.090	ND	0.019	0.013	
98-82-8	Cumene	ND	0.65	0.093	ND	0.13	0.019	
541-73-1	1,3-Dichlorobenzene	ND	0.64	0.097	ND	0.11	0.016	
106-46-7	1,4-Dichlorobenzene	ND	0.64	0.099	ND	0.11	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.65	0.096	ND	0.11	0.016	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.3	0.12	ND	0.14	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	1.3	0.16	ND	0.18	0.021	
79-20-9	Methyl Acetate	ND	0.61	0.29	ND	0.20	0.096	X
108-87-2	Methylcyclohexane	1.8	0.61	0.31	0.46	0.15	0.078	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS13\DATA\2023_03\24\03242325.D
 Acq On : 24 Mar 2023 21:01
 Sample : P2301250-020 (1000mL)
 Misc : S35-01202301

Vial: 9
 Operator: TZ
 Inst : MS13

Tz 3/27/23

Quant Time: Mar 27 13:42:26 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	235053	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.37	114	1031723	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.88	54	190767	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	403066	12.922	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	103.36%
57) Toluene-d8 (SS2)	12.48	98	1163116	11.856	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.88%
73) Bromofluorobenzene (SS3)	16.85	174	426010	11.856	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.88%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	3.46	85	90443	2.101	ng	99
4) Chloromethane	3.61	50	8311m	0.268	ng	
5) 1,2-Dichloro-1,1,2,2-t...	3.71	135	2033	0.094	ng	94
6) Vinyl Chloride	3.80	62	529	N.D.		
7) 1,3-Butadiene	3.87	54	541	N.D.		
8) Bromomethane	4.13	94	159	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	4.39	45	53280	3.192	ng	100
11) Acetonitrile	4.56	41	2615	0.060	ng	# 1
12) Acrolein	4.64	56	1419	0.103	ng	98
13) Acetone	4.74	58	55690	3.909	ng	99
14) Trichlorofluoromethane	4.86	101	38518	0.994	ng	98
15) 2-Propanol (Isopropanol)	4.94	45	33523	0.583	ng	85
16) Acrylonitrile	5.14	53	460	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.45	84	23306	1.116	ng	97
20) 3-Chloro-1-propene (Al...	5.56	41	172	N.D.		
21) Trichlorotrifluoroethane	5.68	151	8844	0.434	ng	97
22) Carbon Disulfide	5.71	76	40741	0.493	ng	100
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	6.49	73	200	N.D.		
26) Vinyl Acetate	6.54	86	718	0.186	ng	# 70
27) 2-Butanone (MEK)	6.76	72	5703	0.451	ng	92
28) cis-1,2-Dichloroethene	7.16	61	597	N.D.		
29) Diisopropyl Ether	7.37	87	756	N.D.		
30) Ethyl Acetate	7.37	61	50299	6.048	ng	92
31) n-Hexane	7.38	57	23238	0.726	ng	97
32) Chloroform	7.44	83	5372	0.142	ng	98
34) Tetrahydrofuran (THF)	7.86	72	897	0.069	ng	# 84
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.19	62	1217	N.D.		
38) 1,1,1-Trichloroethane	8.48	97	1587	N.D.		
39) Isopropyl Acetate	9.37	61	29256	No Calib		
40) 1-Butanol	8.89	56	33979	No Calib	#	
41) Benzene	8.97	78	27984	0.349	ng	98
42) Carbon Tetrachloride	9.14	117	10838	0.360	ng	95
43) Cyclohexane	9.28	84	6343	0.216	ng	90
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	10.17	83	1285	N.D.		
47) Trichloroethene	10.21	130	21706	0.923	ng	95
48) 1,4-Dioxane	10.21	88	123	N.D.		
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.	d	
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS13\DATA\2023_03\24\03242325.D
 Acq On : 24 Mar 2023 21:01
 Sample : P2301250-020 (1000mL)
 Misc : S35-01202301

Vial: 9
 Operator: TZ
 Inst : MS13

Quant Time: Mar 27 13:42:26 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.63	71	14051	0.723	ng	99
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.40	58	973	0.056	ng	# 54
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.61	91	95288	1.020	ng	100
59) 2-Hexanone	0.00	43	0	N.D.	d	
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.82	43	4677	0.091	ng	91
63) n-Octane	13.96	57	11470	0.625	ng	89
64) Tetrachloroethene	14.08	166	14688	0.517	ng	94
65) Chlorobenzene	14.94	112	1439	N.D.		
66) Ethylbenzene	15.44	91	14054	0.126	ng	96
67) m- & p-Xylenes	15.66	91	37932	0.423	ng	97
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.14	104	4405	0.071	ng	95
70) o-Xylene	16.27	91	16623	0.194	ng	100
71) n-Nonane	16.64	43	15682	0.378	ng	95
72) 1,1,2,2-Tetrachloroethane	16.15	83	488	N.D.		
74) Cumene	17.05	105	2214	N.D.		
75) alpha-Pinene	17.57	93	2650	0.055	ng	76
76) n-Propylbenzene	17.74	91	3327	N.D.		
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.94	105	3274	N.D.		
79) 1,3,5-Trimethylbenzene	18.06	105	3480	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.61	105	10156	0.116	ng	88
83) n-Decane	17.11	58	135	No Calib	#	
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	18.77	146	470	N.D.		
86) 1,4-Dichlorobenzene	18.87	146	655	N.D.		
87) sec-Butylbenzene	18.96	105	654	N.D.		
88) 4-Isopropyltoluene (p-...	19.18	119	1930	N.D.		
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.31	146	771	N.D.		
91) d-Limonene	19.36	68	4837	0.164	ng	97
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.26	58	730	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.42	180	270	N.D.		
95) Naphthalene	21.56	128	2122	N.D.		
96) n-Dodecane	19.15	58	111	No Calib	#	
97) Hexachlorobutadiene	21.98	225	113	N.D.		
98) Cyclohexanone	15.65	55	3567	No Calib	#	
99) tert-Butylbenzene	18.61	119	1467	N.D.		
100) n-Butylbenzene	19.71	91	2901	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242325.D
Acq On : 24 Mar 2023 21:01
Sample : P2301250-020 (1000mL)
Misc : S35-01202301

Vial: 9
Operator: TZ
Inst : MS13

Quant Time: Mar 27 13:42:26 2023

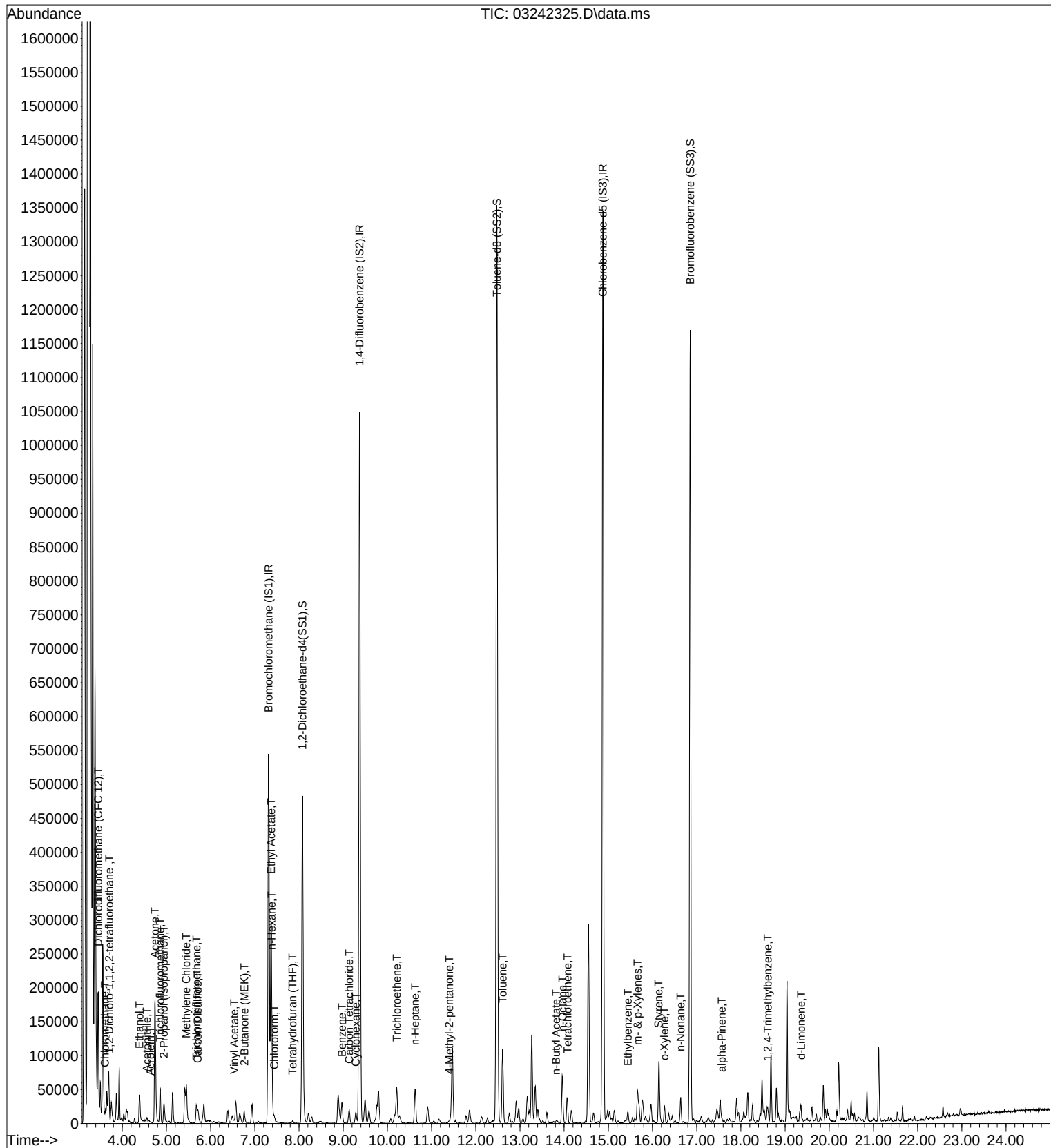
Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242325.D
 Acq On : 24 Mar 2023 21:01
 Sample : P2301250-020 (1000mL)
 Misc : S35-01202301

Vial: 9
 Operator: TZ
 Inst : MS13

T2 3/27/23

Quant Time: Mar 27 13:42:26 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	235053	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.37	114	1031723	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.88	54	190767	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	403066	12.922	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	103.36%
57) Toluene-d8 (SS2)	12.48	98	1163116	11.856	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.88%
73) Bromofluorobenzene (SS3)	16.85	174	426010	11.856	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.88%

Target Compounds

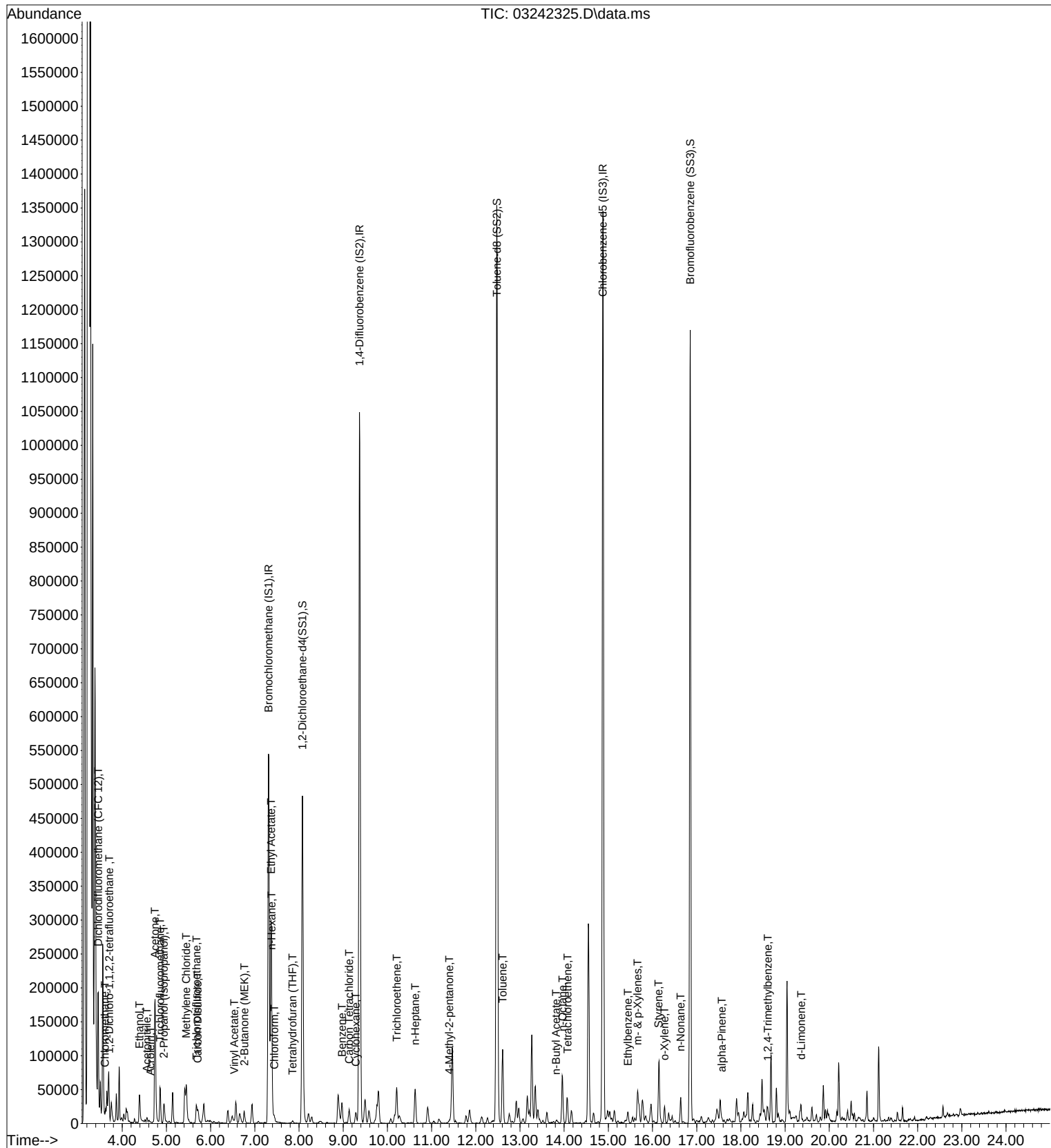
						Qvalue
3) Dichlorodifluoromethan...	3.46	85	90443	2.101	ng	99
4) Chloromethane	3.61	50	8311m	0.268	ng	
5) 1,2-Dichloro-1,1,2,2-t...	3.71	135	2033	0.094	ng	94
10) Ethanol	4.39	45	53280	3.192	ng	100
11) Acetonitrile	4.56	41	2615	0.060	ng	# 1
12) Acrolein	4.64	56	1419	0.103	ng	98
13) Acetone	4.74	58	55690	3.909	ng	99
14) Trichlorofluoromethane	4.86	101	38518	0.994	ng	98
15) 2-Propanol (Isopropanol)	4.94	45	33523	0.583	ng	85
19) Methylene Chloride	5.45	84	23306	1.116	ng	97
21) Trichlorotrifluoroethane	5.68	151	8844	0.434	ng	97
22) Carbon Disulfide	5.71	76	40741	0.493	ng	100
26) Vinyl Acetate	6.54	86	718	0.186	ng	# 70
27) 2-Butanone (MEK)	6.76	72	5703	0.451	ng	92
30) Ethyl Acetate	7.37	61	50299	6.048	ng	92
31) n-Hexane	7.38	57	23238	0.726	ng	97
32) Chloroform	7.44	83	5372	0.142	ng	98
34) Tetrahydrofuran (THF)	7.86	72	897	0.069	ng	# 84
41) Benzene	8.97	78	27984	0.349	ng	98
42) Carbon Tetrachloride	9.14	117	10838	0.360	ng	95
43) Cyclohexane	9.28	84	6343	0.216	ng	90
47) Trichloroethene	10.21	130	21706	0.923	ng	95
51) n-Heptane	10.63	71	14051	0.723	ng	99
53) 4-Methyl-2-pentanone	11.40	58	973	0.056	ng	# 54
58) Toluene	12.61	91	95288	1.020	ng	100
62) n-Butyl Acetate	13.82	43	4677	0.091	ng	91
63) n-Octane	13.96	57	11470	0.625	ng	89
64) Tetrachloroethene	14.08	166	14688	0.517	ng	94
66) Ethylbenzene	15.44	91	14054	0.126	ng	96
67) m- & p-Xylenes	15.66	91	37932	0.423	ng	97
69) Styrene	16.14	104	4405	0.071	ng	95
70) o-Xylene	16.27	91	16623	0.194	ng	100
71) n-Nonane	16.64	43	15682	0.378	ng	95
75) alpha-Pinene	17.57	93	2650	0.055	ng	76
82) 1,2,4-Trimethylbenzene	18.61	105	10156	0.116	ng	88
91) d-Limonene	19.36	68	4837	0.164	ng	97

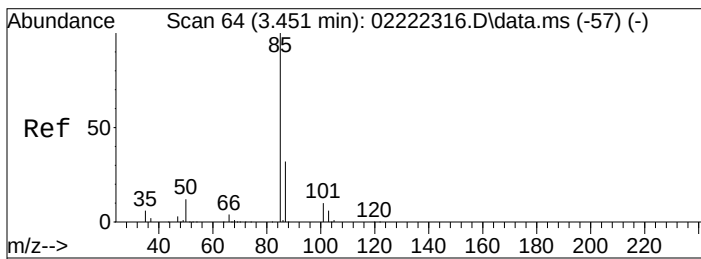
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS13\DATA\2023_03\24\03242325.D
Acq On : 24 Mar 2023 21:01
Sample : P2301250-020 (1000mL)
Misc : S35-01202301

Vial: 9
Operator: TZ
Inst : MS13

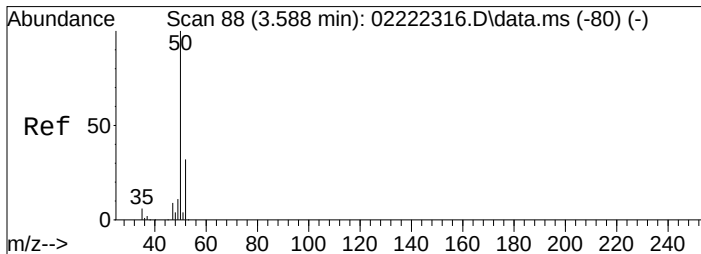
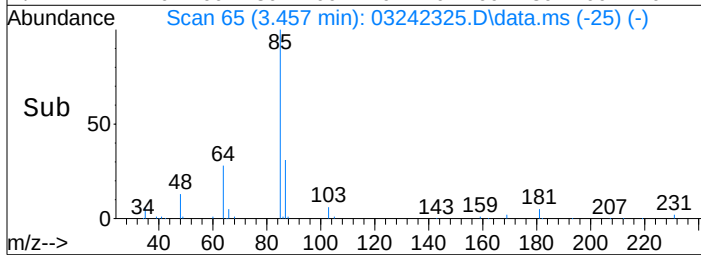
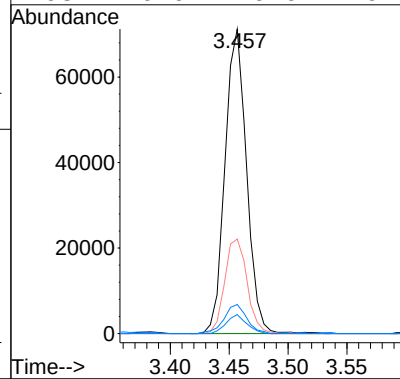
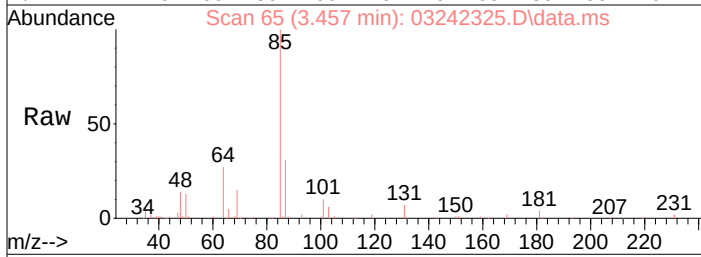
Quant Time: Mar 27 13:42:26 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M





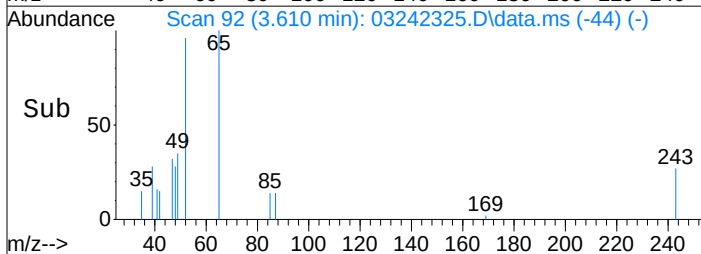
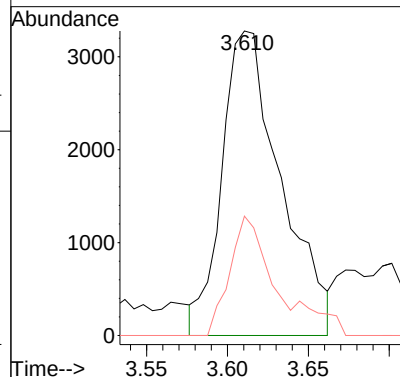
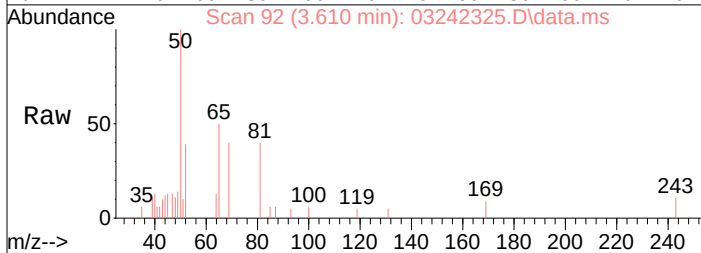
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 2.10 ng
 RT: 3.46 min Scan# 65
 Delta R.T. -0.021 min
 Lab File: 03242325.D
 Acq: 24 Mar 2023 21:01

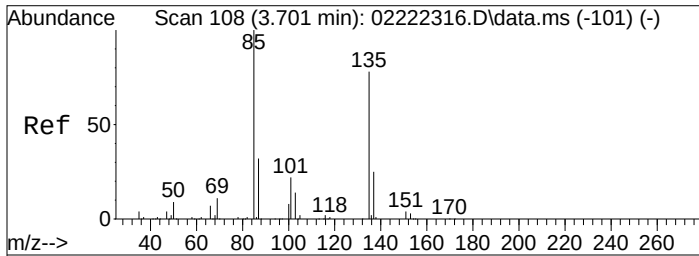
Tgt Ion: 85 Resp: 90443
 Ion Ratio Lower Upper
 85 100
 87 32.1 12.4 52.4
 101 10.1 0.0 29.4
 103 6.0 0.0 26.0



#4
 Chloromethane
 Concen: 0.27 ng m
 RT: 3.61 min Scan# 92
 Delta R.T. 0.023 min
 Lab File: 03242325.D
 Acq: 24 Mar 2023 21:01

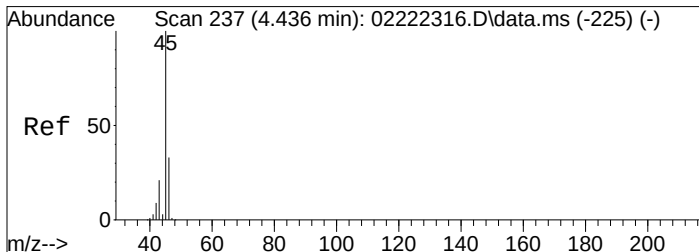
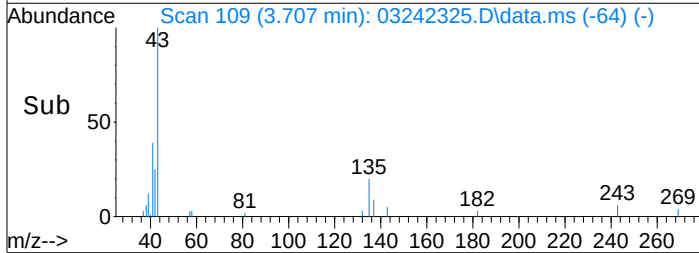
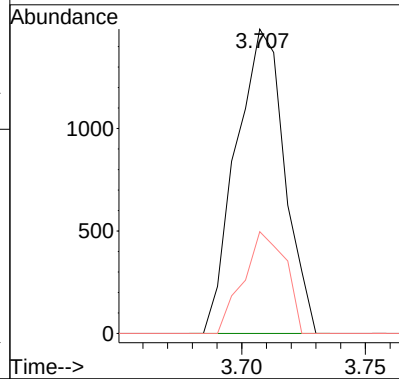
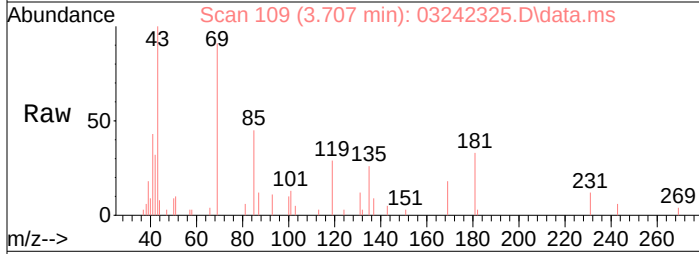
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 Ion Ratio Lower Upper
 50 100
 52 25.8 13.0 53.0





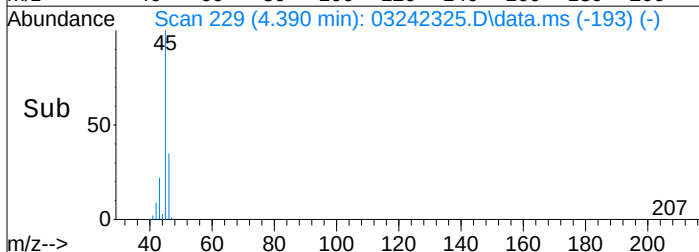
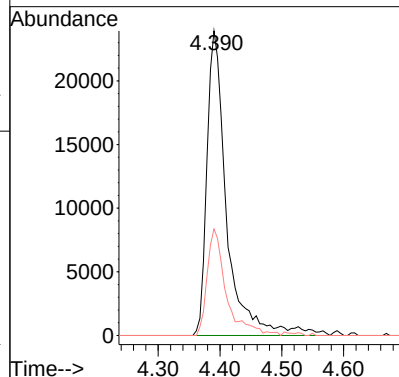
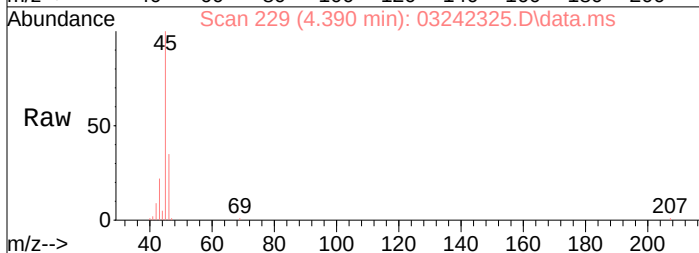
#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.09 ng
 RT: 3.71 min Scan# 109
 Delta R.T. 0.006 min
 Lab File: 03242325.D
 Acq: 24 Mar 2023 21:01

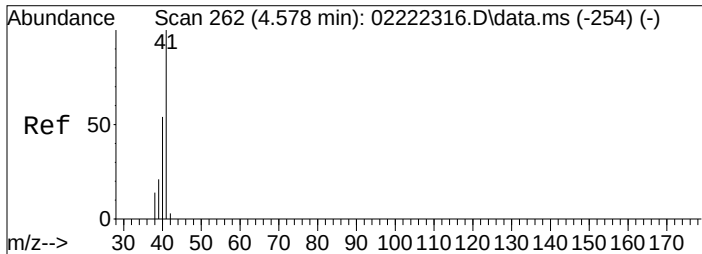
Tgt Ion: 135 Resp: 2033
 Ion Ratio Lower Upper
 135 100
 137 28.9 12.2 52.2



#10
 Ethanol
 Concen: 3.19 ng
 RT: 4.39 min Scan# 229
 Delta R.T. -0.045 min
 Lab File: 03242325.D
 Acq: 24 Mar 2023 21:01

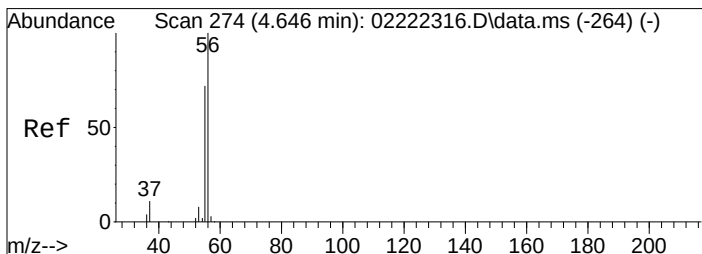
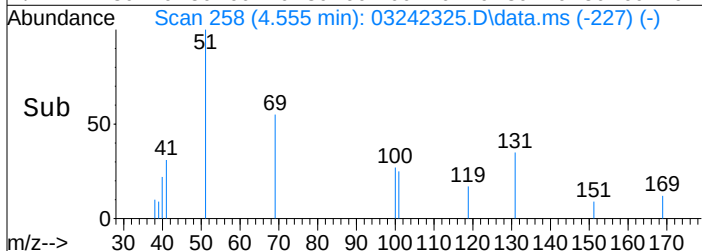
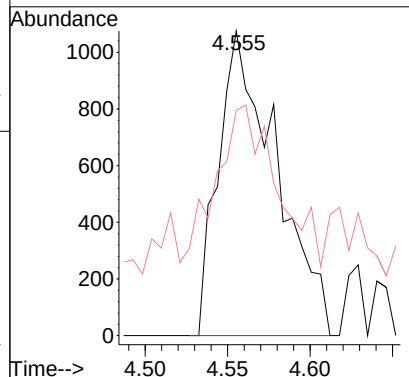
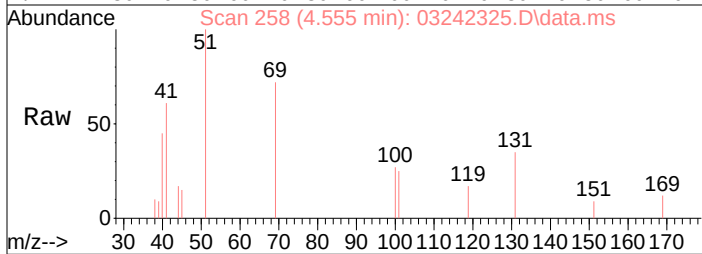
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 Ion Ratio Lower Upper
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 46 33.6 13.8 53.8





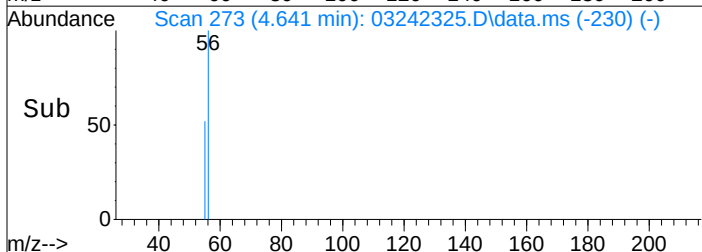
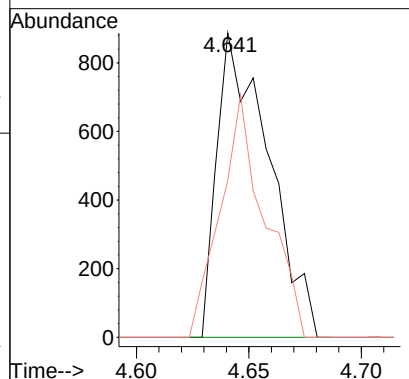
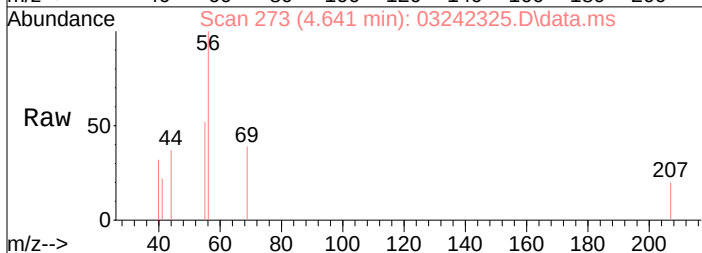
#11
Acetonitrile
Concen: 0.06 ng
RT: 4.56 min Scan# 258
Delta R.T. -0.023 min
Lab File: 03242325.D
Acq: 24 Mar 2023 21:01

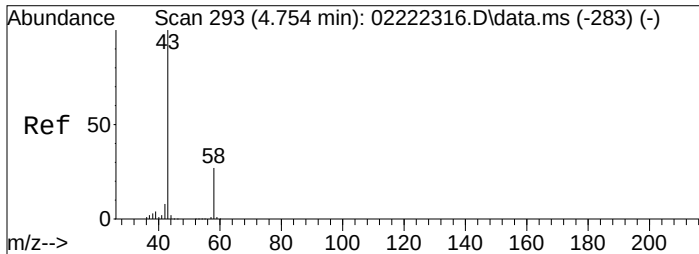
Tgt Ion: 41 Resp: 2615
Ion Ratio Lower Upper
41 100
40 287.9 34.4 74.4#



#12
Acrolein
Concen: 0.10 ng
RT: 4.64 min Scan# 273
Delta R.T. -0.006 min
Lab File: 03242325.D
Acq: 24 Mar 2023 21:01

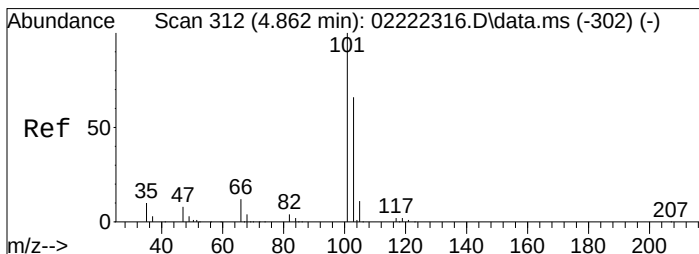
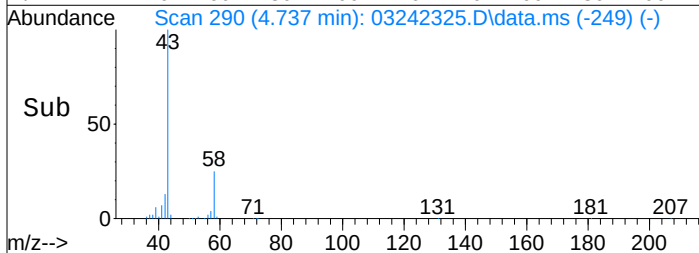
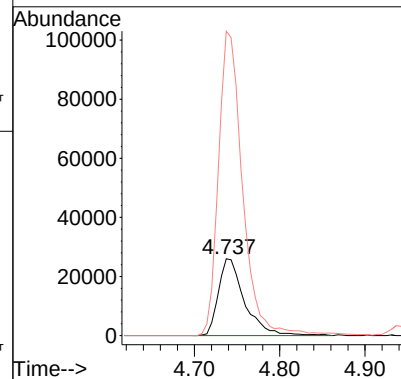
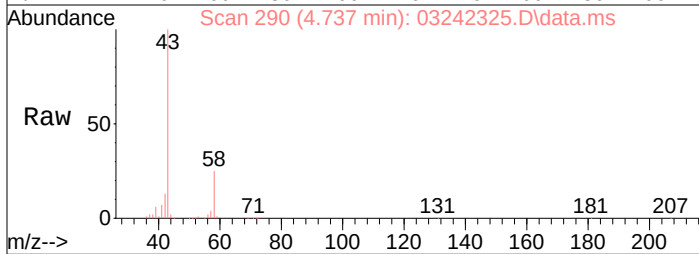
Tgt Ion: 56 Resp: 1419
Ion Ratio Lower Upper
56 100
55 68.9 50.9 90.9





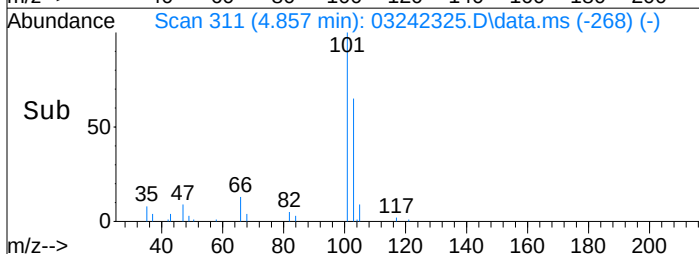
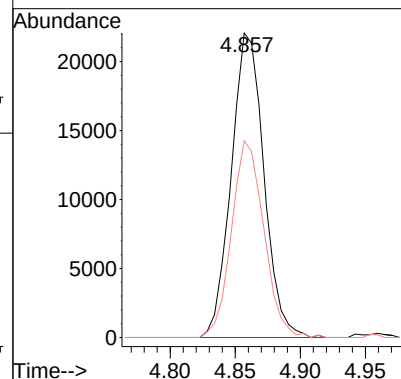
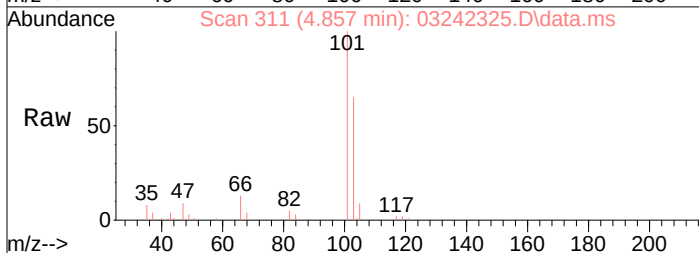
#13
Acetone
Concen: 3.91 ng
RT: 4.74 min Scan# 290
Delta R.T. -0.017 min
Lab File: 03242325.D
Acq: 24 Mar 2023 21:01

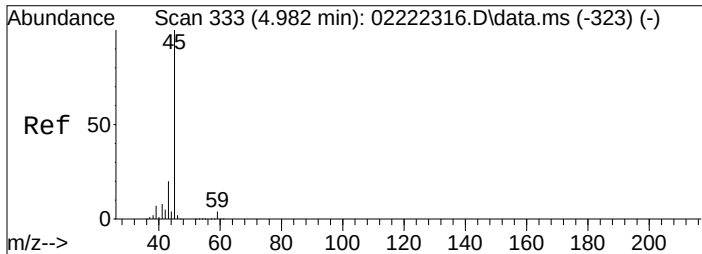
Tgt Ion: 58 Resp: 55690
Ion Ratio Lower Upper
58 100
43 366.2 337.8 397.8



#14
Trichlorofluoromethane
Concen: 0.99 ng
RT: 4.86 min Scan# 311
Delta R.T. -0.006 min
Lab File: 03242325.D
Acq: 24 Mar 2023 21:01

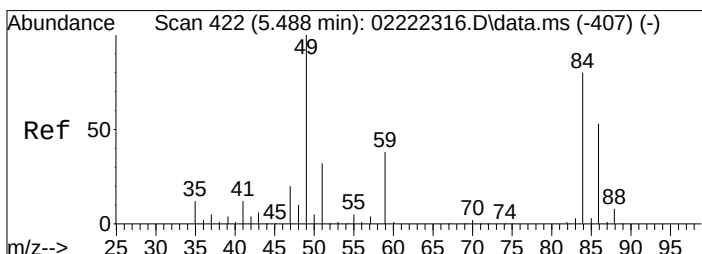
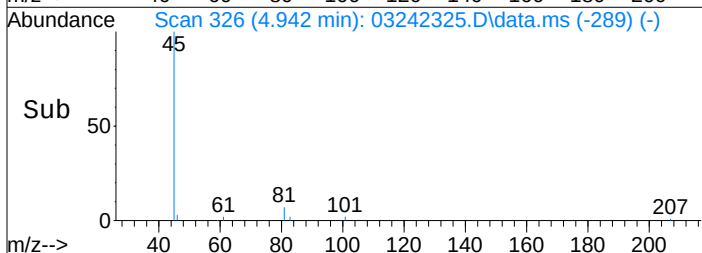
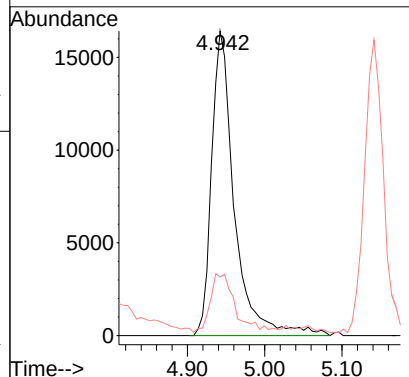
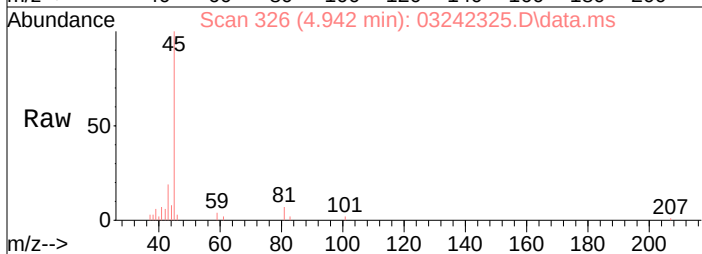
Tgt Ion: 101 Resp: 38518
Ion Ratio Lower Upper
101 100
103 63.9 45.2 85.2





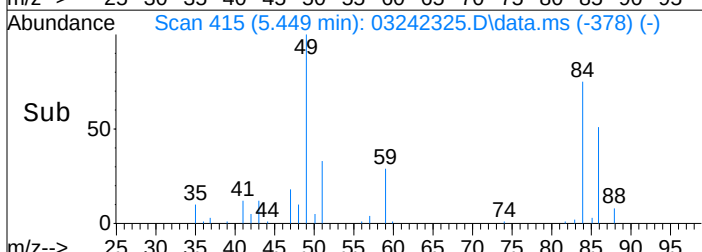
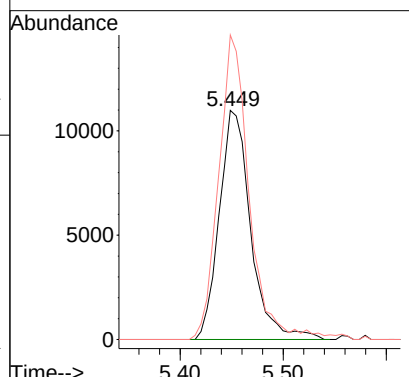
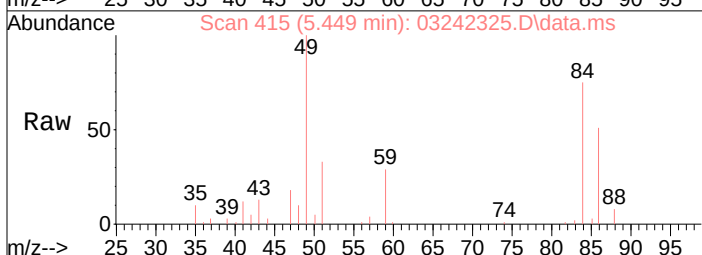
#15
 2-Propanol (Isopropanol)
 Concen: 0.58 ng
 RT: 4.94 min Scan# 326
 Delta R.T. -0.040 min
 Lab File: 03242325.D
 Acq: 24 Mar 2023 21:01

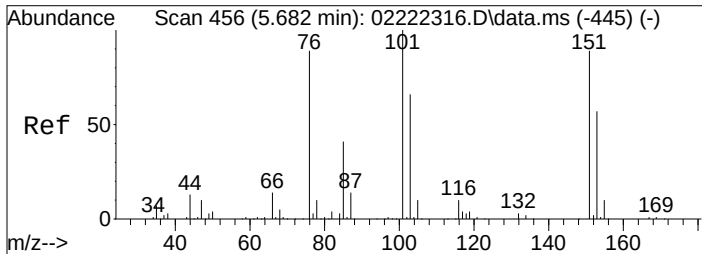
Tgt Ion: 45 Resp: 33523
 Ion Ratio Lower Upper
 45 100
 43 26.4 0.0 39.7



#19
 Methylene Chloride
 Concen: 1.12 ng
 RT: 5.45 min Scan# 415
 Delta R.T. -0.040 min
 Lab File: 03242325.D
 Acq: 24 Mar 2023 21:01

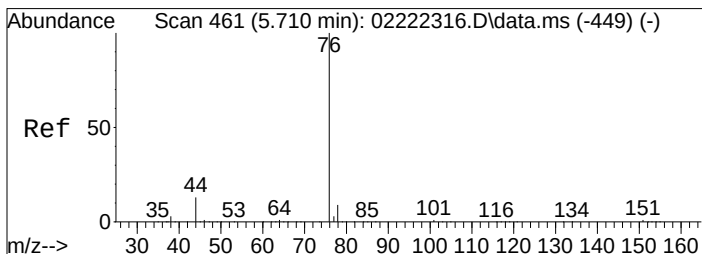
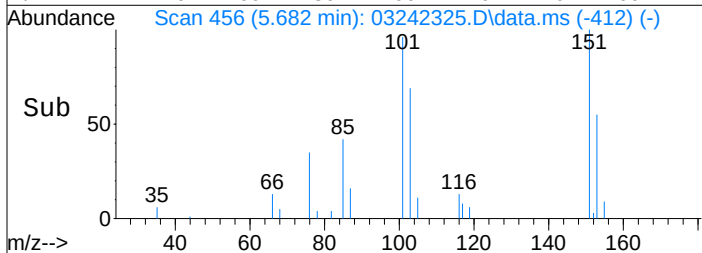
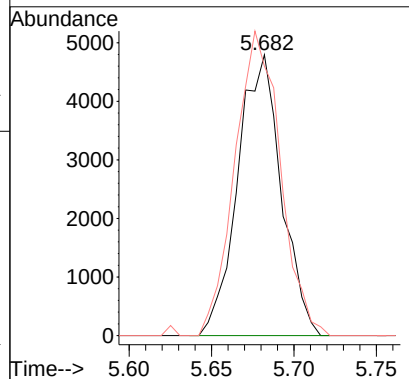
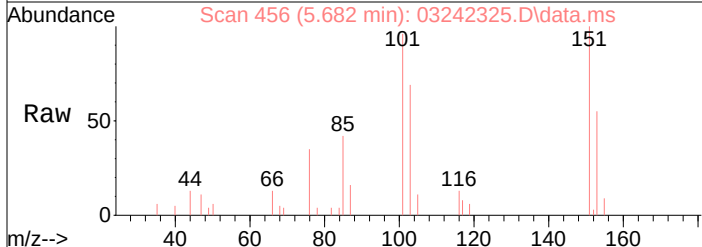
Tgt Ion: 84 Resp: 23306
 Ion Ratio Lower Upper
 84 100
 49 129.2 101.3 151.3





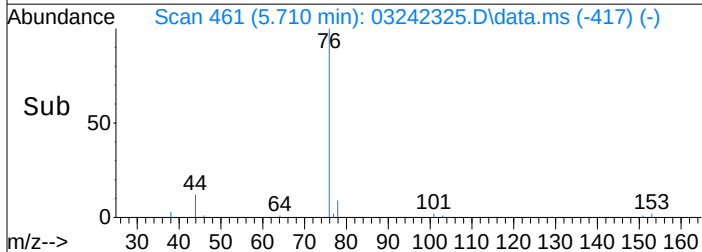
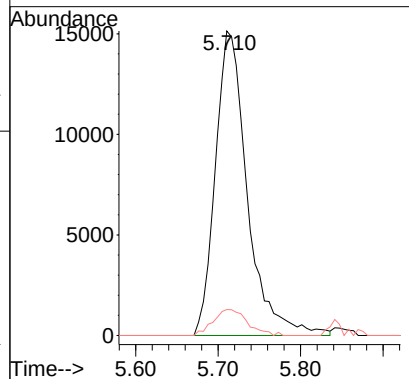
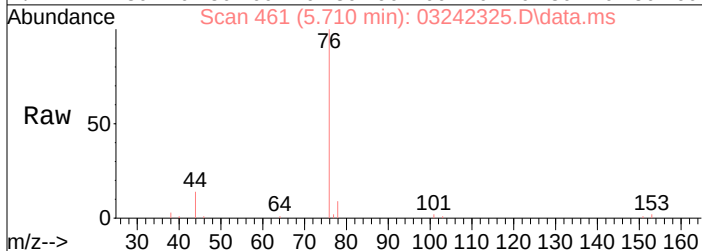
#21
 Trichlorotrifluoroethane
 Concen: 0.43 ng
 RT: 5.68 min Scan# 456
 Delta R.T. 0.000 min
 Lab File: 03242325.D
 Acq: 24 Mar 2023 21:01

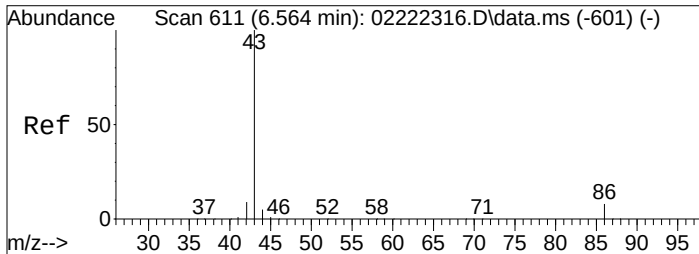
Tgt Ion: 151 Resp: 8844
 Ion Ratio Lower Upper
 151 100
 101 113.0 96.3 136.3



#22
 Carbon Disulfide
 Concen: 0.49 ng
 RT: 5.71 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: 03242325.D
 Acq: 24 Mar 2023 21:01

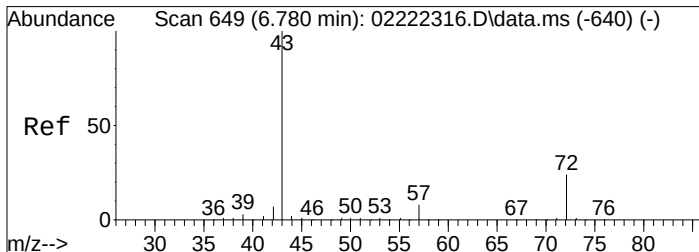
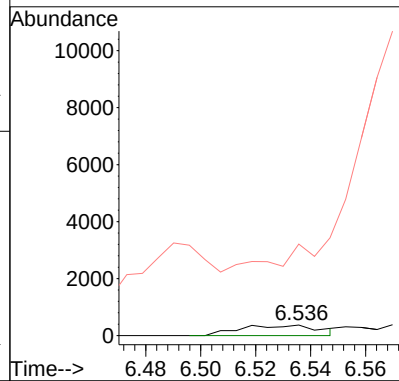
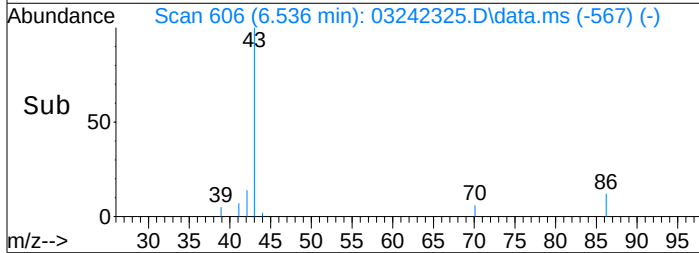
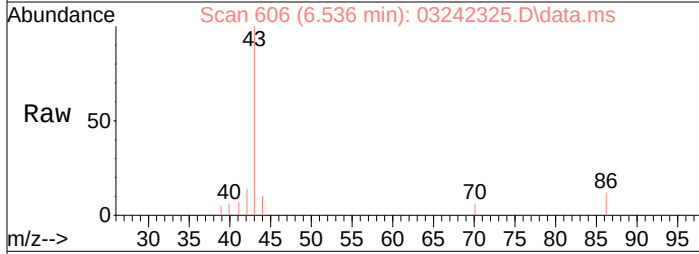
Tgt Ion: 76 Resp: 40741
 Ion Ratio Lower Upper
 76 100
 78 9.2 0.0 29.3





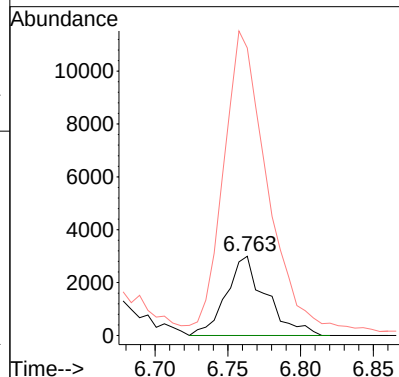
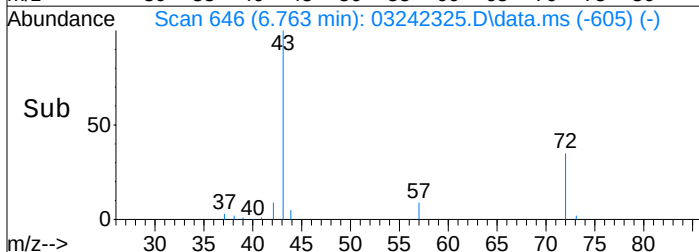
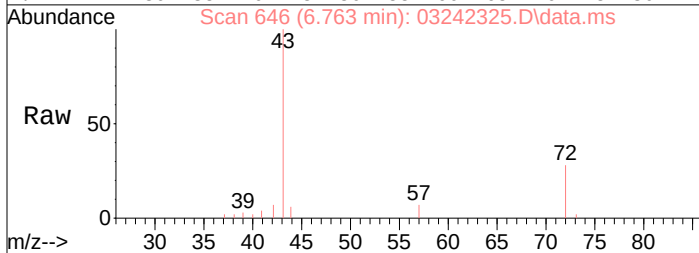
#26
 Vinyl Acetate
 Concen: 0.19 ng
 RT: 6.54 min Scan# 606
 Delta R.T. -0.028 min
 Lab File: 03242325.D
 Acq: 24 Mar 2023 21:01

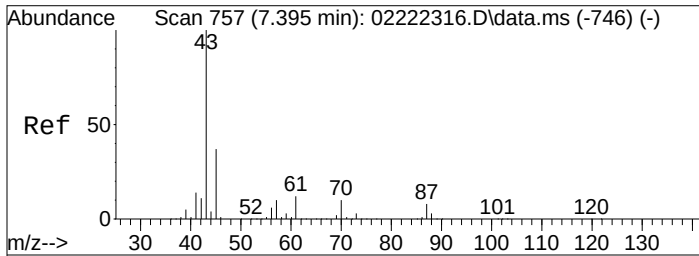
Tgt Ion: 86 Resp: 718
 Ion Ratio Lower Upper
 86 100
 43 1474.9 1292.1 1332.1#



#27
 2-Butanone (MEK)
 Concen: 0.45 ng
 RT: 6.76 min Scan# 646
 Delta R.T. -0.017 min
 Lab File: 03242325.D
 Acq: 24 Mar 2023 21:01

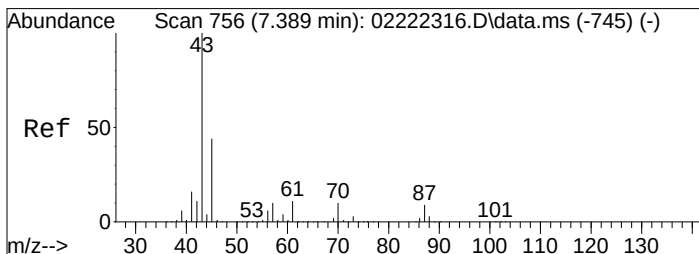
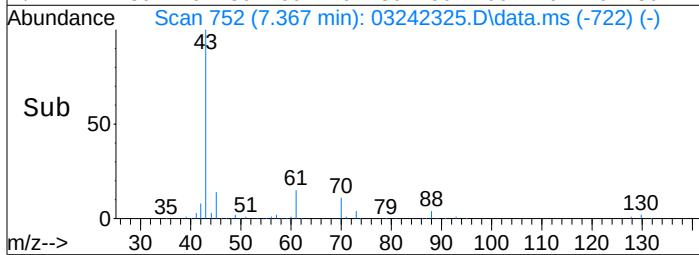
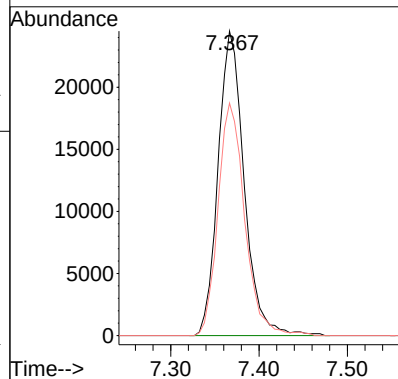
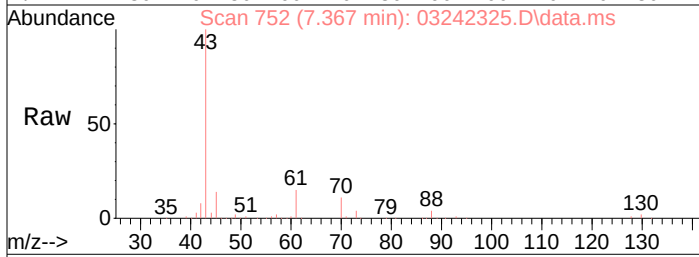
Tgt Ion: 72 Resp: 5703
 Ion Ratio Lower Upper
 72 100
 43 440.1 400.5 440.5





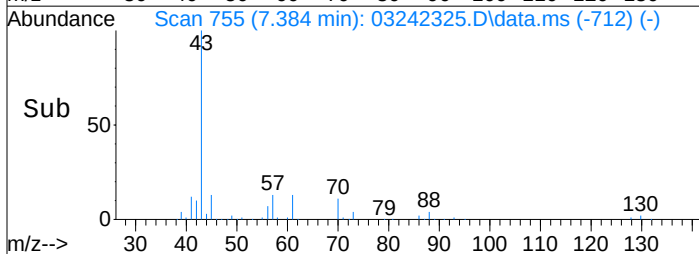
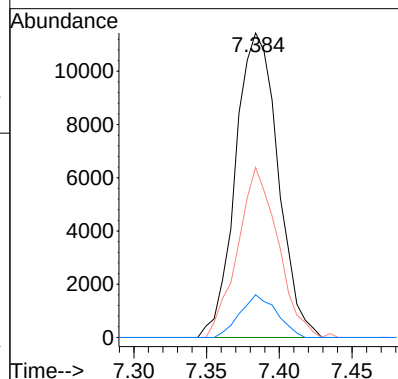
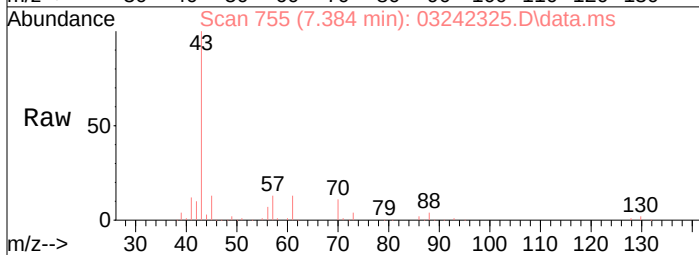
#30
Ethyl Acetate
Concen: 6.05 ng
RT: 7.37 min Scan# 752
Delta R.T. -0.028 min
Lab File: 03242325.D
Acq: 24 Mar 2023 21:01

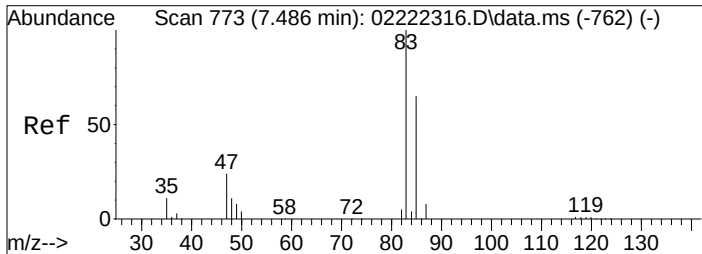
Tgt Ion: 61 Resp: 50299
Ion Ratio Lower Upper
61 100
70 78.3 65.6 105.6



#31
n-Hexane
Concen: 0.73 ng
RT: 7.38 min Scan# 755
Delta R.T. -0.006 min
Lab File: 03242325.D
Acq: 24 Mar 2023 21:01

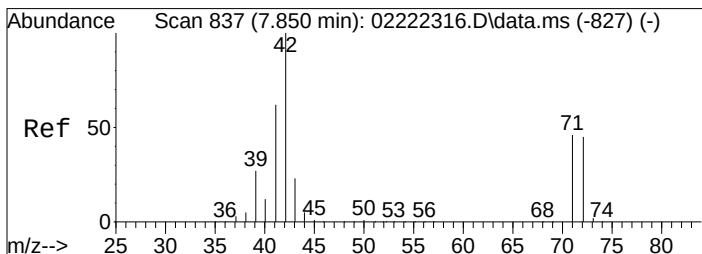
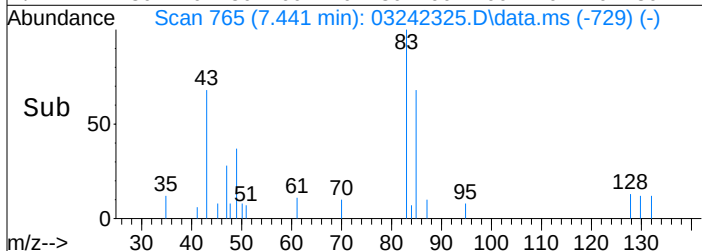
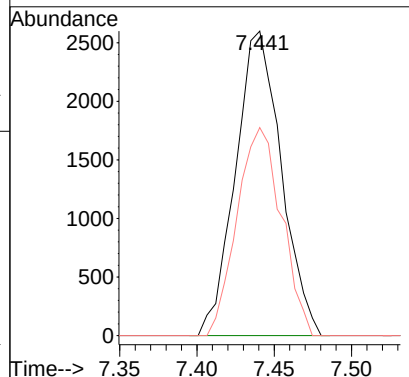
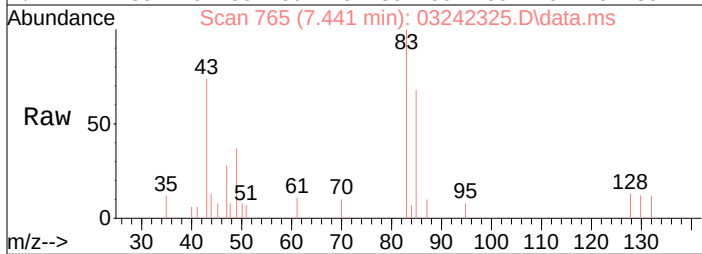
Tgt Ion: 57 Resp: 23238
Ion Ratio Lower Upper
57 100
56 53.1 44.0 66.0
86 12.2 11.5 17.3





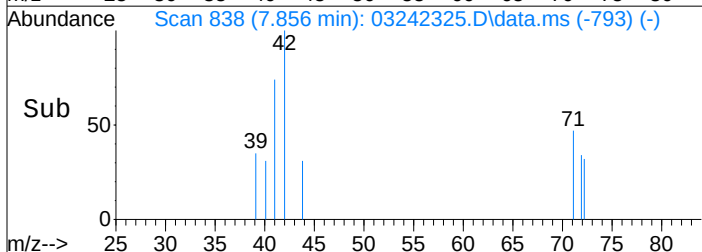
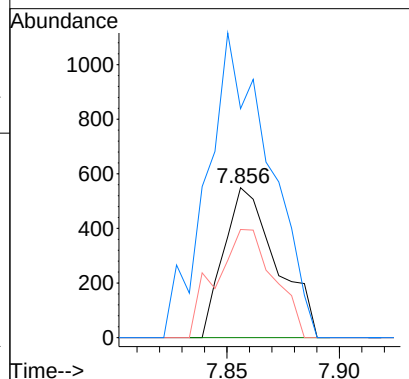
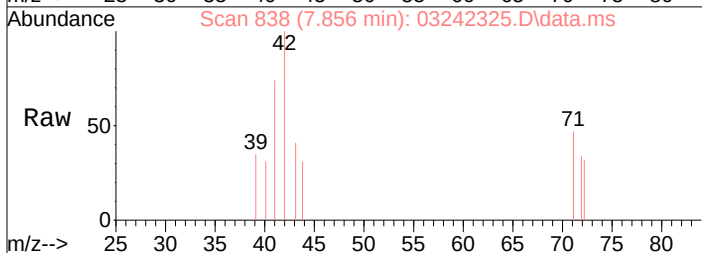
#32
Chloroform
Concen: 0.14 ng
RT: 7.44 min Scan# 765
Delta R.T. -0.045 min
Lab File: 03242325.D
Acq: 24 Mar 2023 21:01

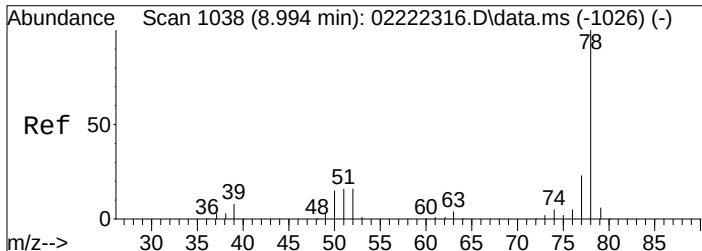
Tgt Ion: 83 Resp: 5372
Ion Ratio Lower Upper
83 100
85 66.3 45.0 85.0



#34
Tetrahydrofuran (THF)
Concen: 0.07 ng
RT: 7.86 min Scan# 838
Delta R.T. 0.006 min
Lab File: 03242325.D
Acq: 24 Mar 2023 21:01

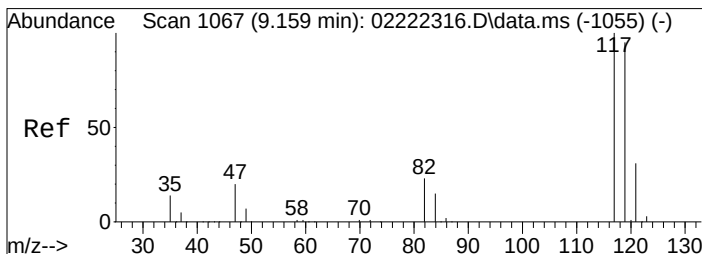
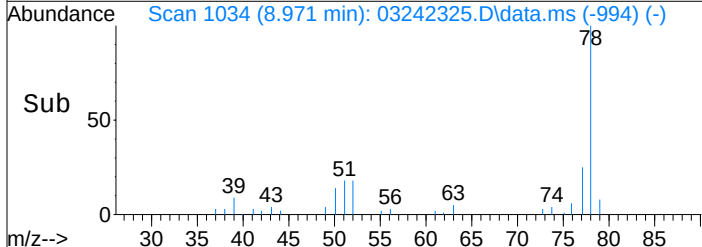
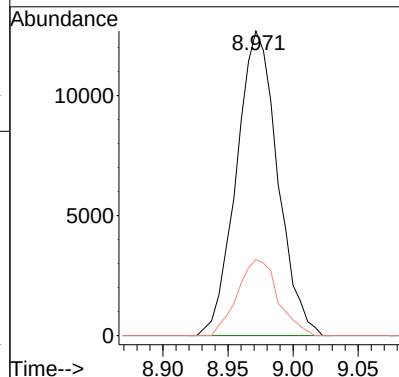
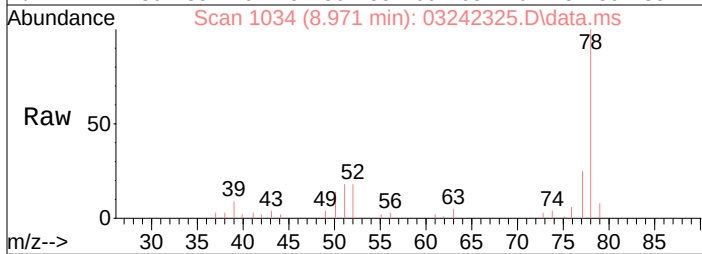
Tgt Ion: 72 Resp: 897
Ion Ratio Lower Upper
72 100
71 79.5 79.8 119.8#
42 241.1 199.0 239.0#





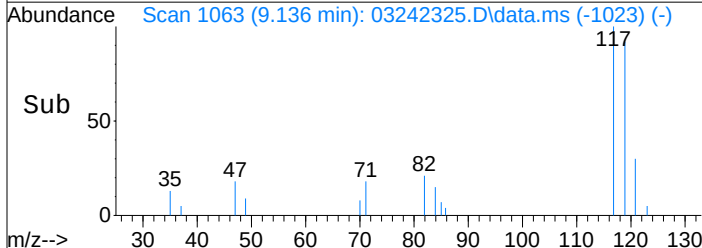
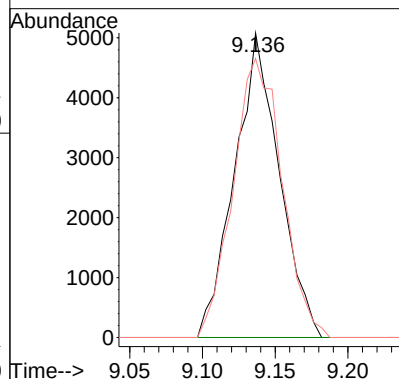
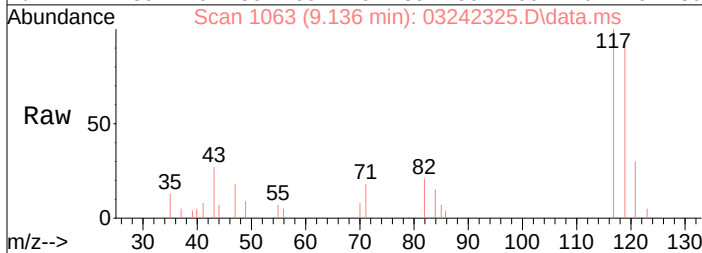
#41
Benzene
Concen: 0.35 ng
RT: 8.97 min Scan# 1034
Delta R.T. -0.023 min
Lab File: 03242325.D
Acq: 24 Mar 2023 21:01

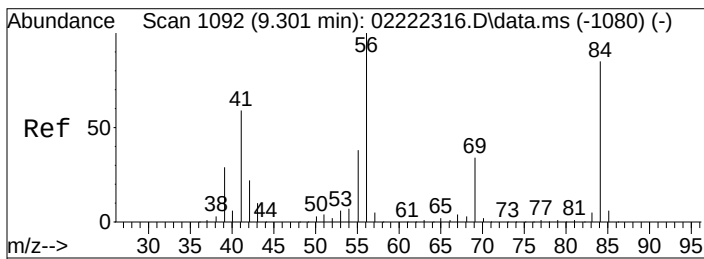
Tgt Ion: 78 Resp: 27984
Ion Ratio Lower Upper
78 100
77 24.5 3.7 43.7



#42
Carbon Tetrachloride
Concen: 0.36 ng
RT: 9.14 min Scan# 1063
Delta R.T. -0.023 min
Lab File: 03242325.D
Acq: 24 Mar 2023 21:01

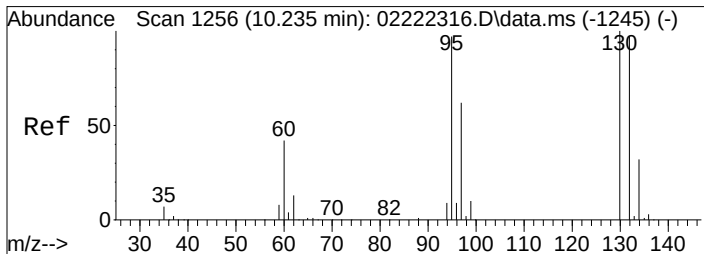
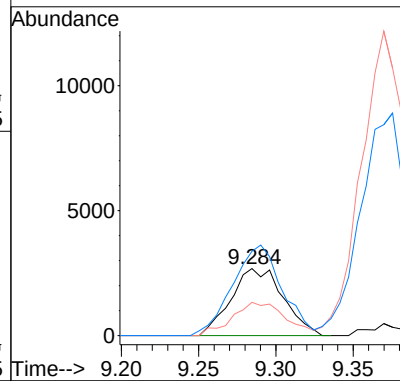
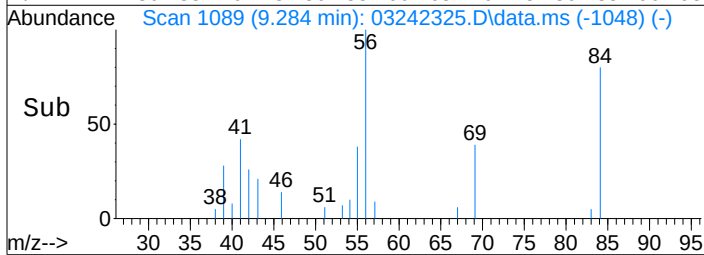
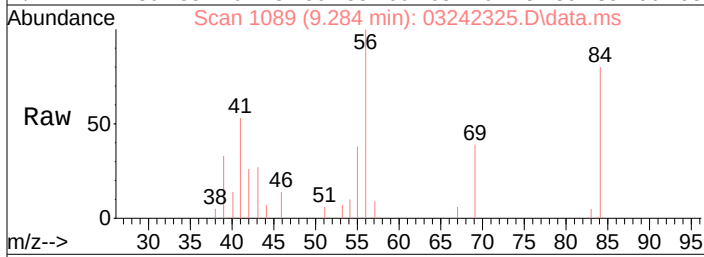
Tgt Ion: 117 Resp: 10838
Ion Ratio Lower Upper
117 100
119 100.6 75.7 115.7





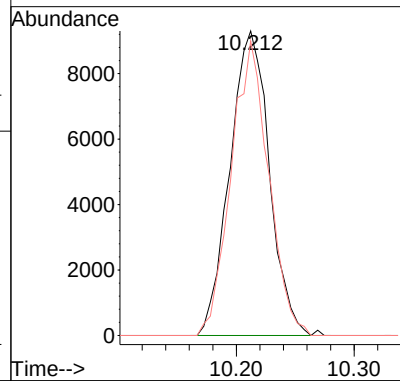
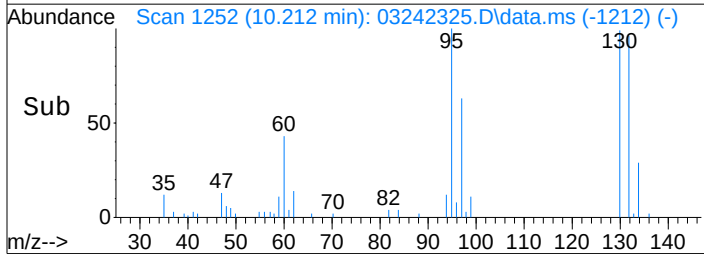
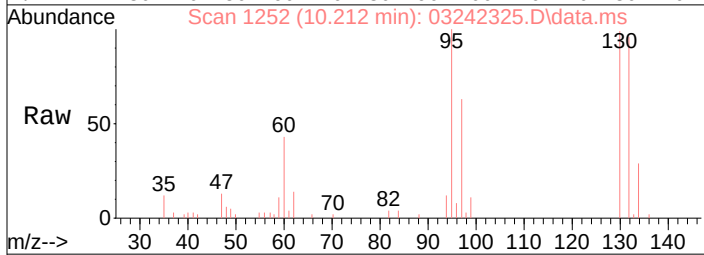
#43
Cyclohexane
Concen: 0.22 ng
RT: 9.28 min Scan# 1089
Delta R.T. -0.017 min
Lab File: 03242325.D
Acq: 24 Mar 2023 21:01

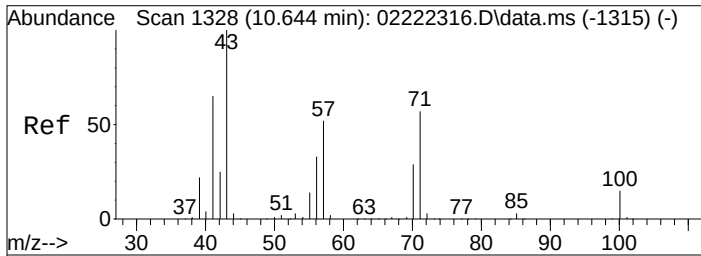
Tgt Ion: 84 Resp: 6343
Ion Ratio Lower Upper
84 100
69 50.3 20.0 60.0
56 127.3 98.5 138.5



#47
Trichloroethene
Concen: 0.92 ng
RT: 10.21 min Scan# 1252
Delta R.T. -0.023 min
Lab File: 03242325.D
Acq: 24 Mar 2023 21:01

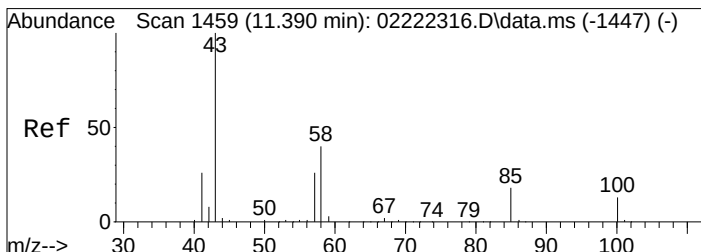
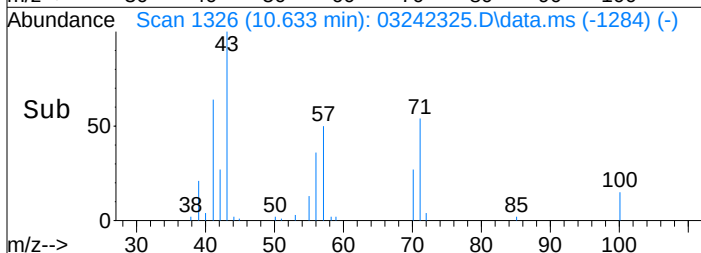
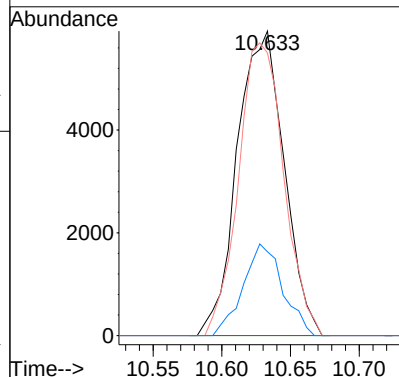
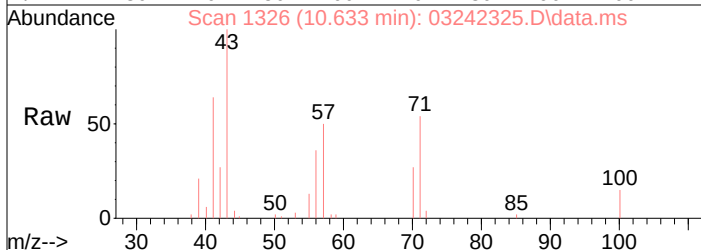
Tgt Ion: 130 Resp: 21706
Ion Ratio Lower Upper
130 100
132 91.7 76.3 116.3





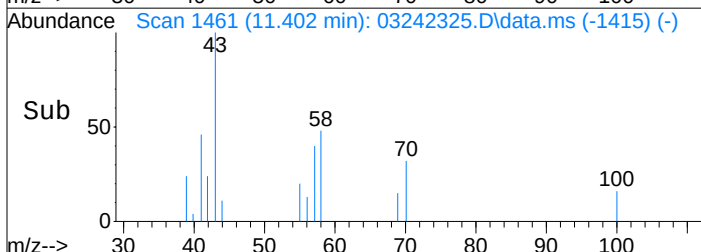
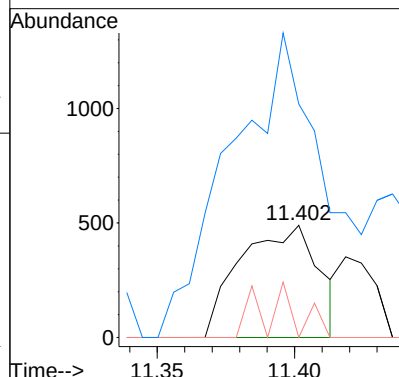
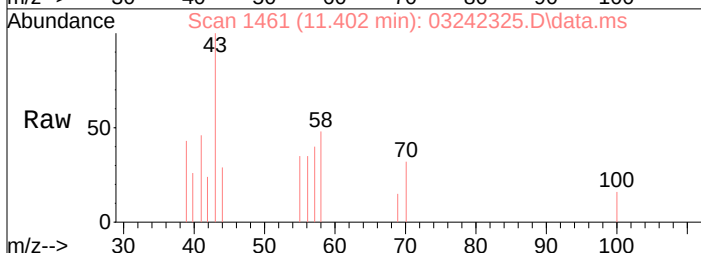
#51
n-Heptane
Concen: 0.72 ng
RT: 10.63 min Scan# 1326
Delta R.T. -0.011 min
Lab File: 03242325.D
Acq: 24 Mar 2023 21:01

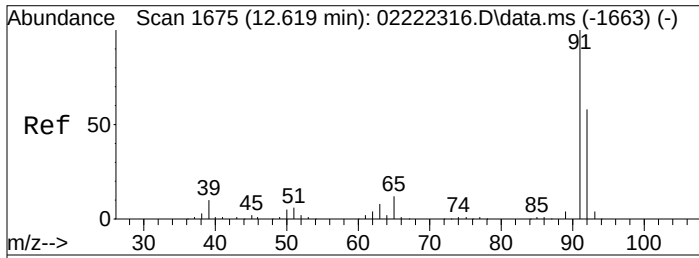
Tgt Ion: 71 Resp: 14051
Ion Ratio Lower Upper
71 100
57 93.0 71.7 111.7
100 25.5 5.8 45.8



#53
4-Methyl-2-pentanone
Concen: 0.06 ng
RT: 11.40 min Scan# 1461
Delta R.T. 0.012 min
Lab File: 03242325.D
Acq: 24 Mar 2023 21:01

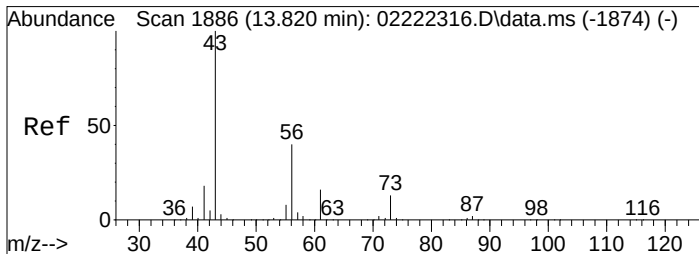
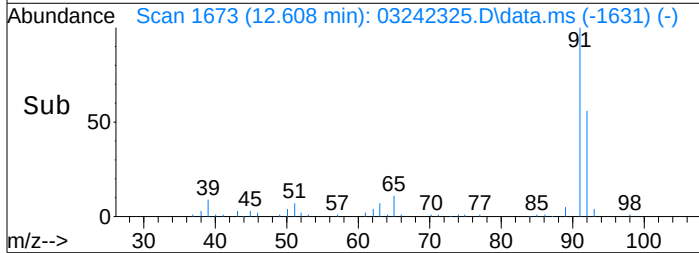
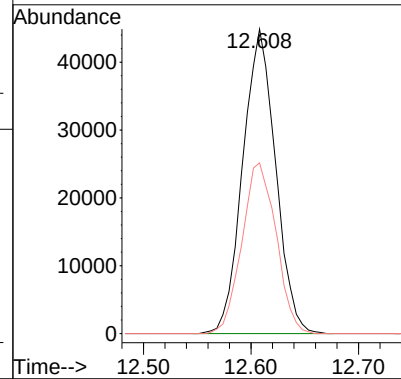
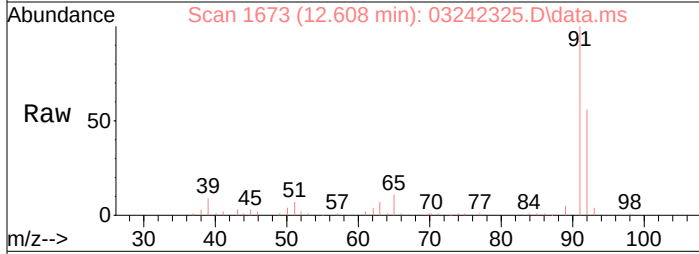
Tgt Ion: 58 Resp: 973
Ion Ratio Lower Upper
58 100
85 0.0 38.6 58.0#
43 325.7 202.2 303.2#





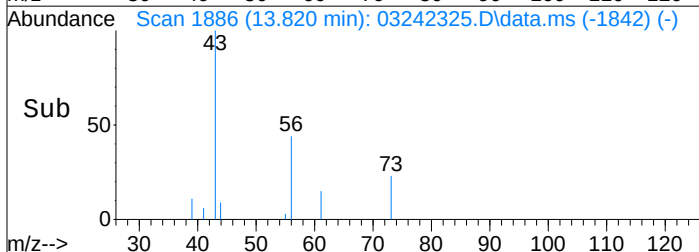
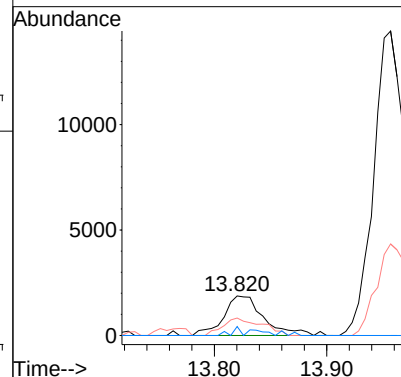
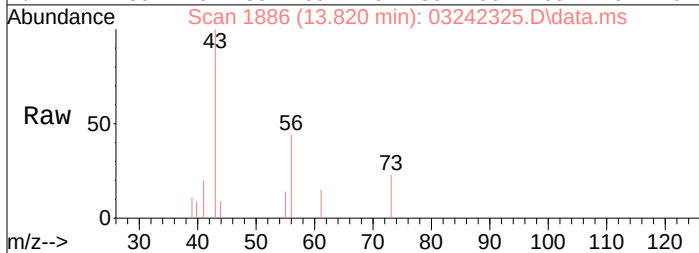
#58
Toluene
Concen: 1.02 ng
RT: 12.61 min Scan# 1673
Delta R.T. -0.011 min
Lab File: 03242325.D
Acq: 24 Mar 2023 21:01

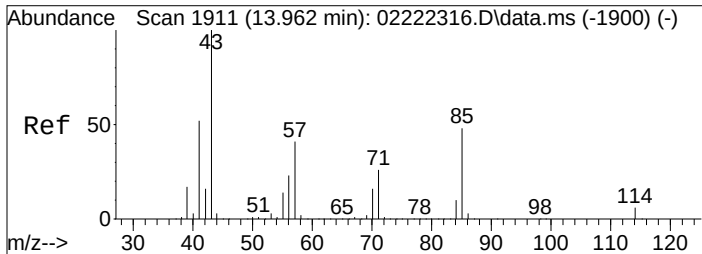
Tgt Ion: 91 Resp: 95288
Ion Ratio Lower Upper
91 100
92 58.3 38.0 78.0



#62
n-Butyl Acetate
Concen: 0.09 ng
RT: 13.82 min Scan# 1886
Delta R.T. 0.000 min
Lab File: 03242325.D
Acq: 24 Mar 2023 21:01

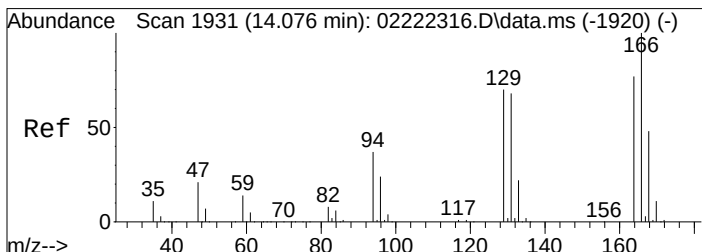
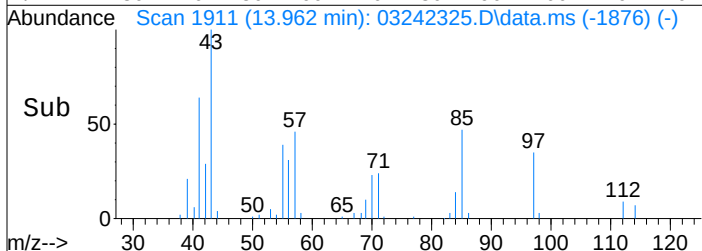
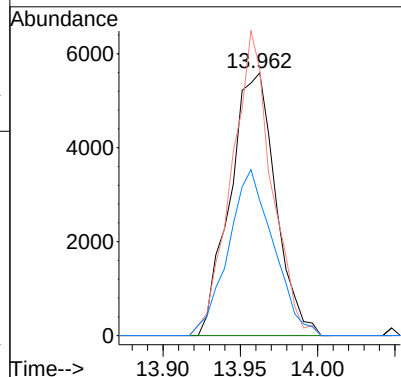
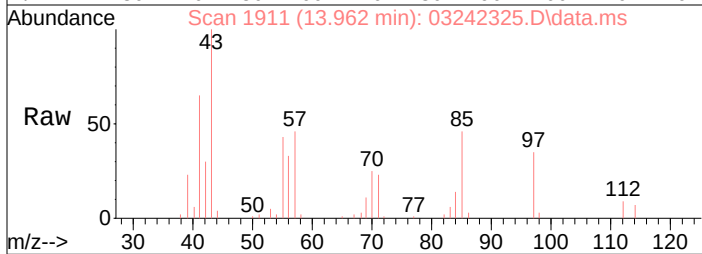
Tgt Ion: 43 Resp: 4677
Ion Ratio Lower Upper
43 100
56 42.6 20.0 60.0
73 4.4 0.0 33.2





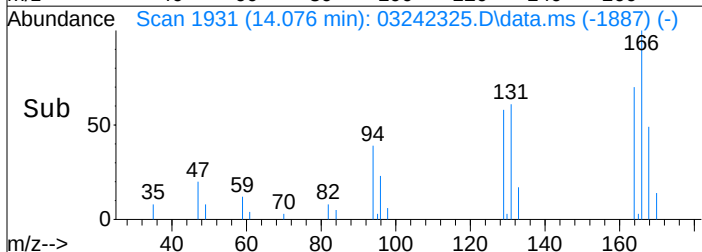
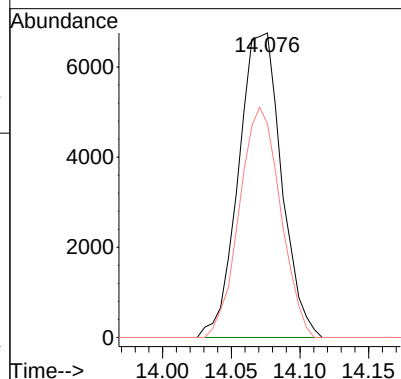
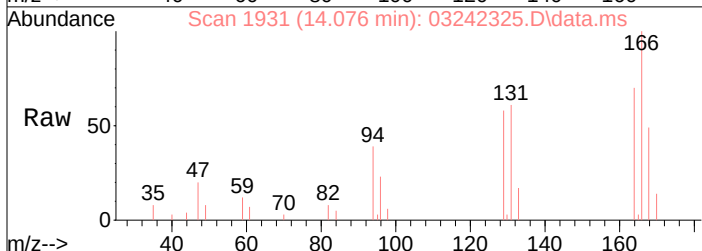
#63
n-Octane
Concen: 0.62 ng
RT: 13.96 min Scan# 1911
Delta R.T. 0.000 min
Lab File: 03242325.D
Acq: 24 Mar 2023 21:01

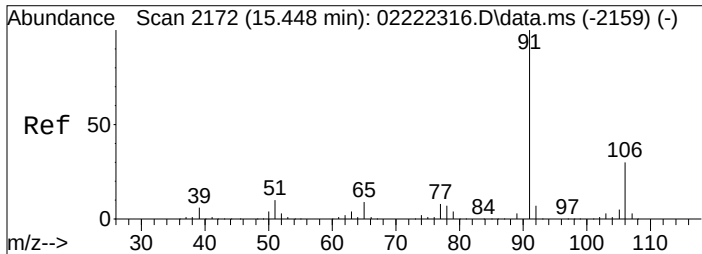
Tgt Ion:	57	Resp:	11470
Ion Ratio		Lower	Upper
57	100		
85	101.7	94.1	141.1
71	62.6	52.6	79.0



#64
Tetrachloroethene
Concen: 0.52 ng
RT: 14.08 min Scan# 1931
Delta R.T. 0.000 min
Lab File: 03242325.D
Acq: 24 Mar 2023 21:01

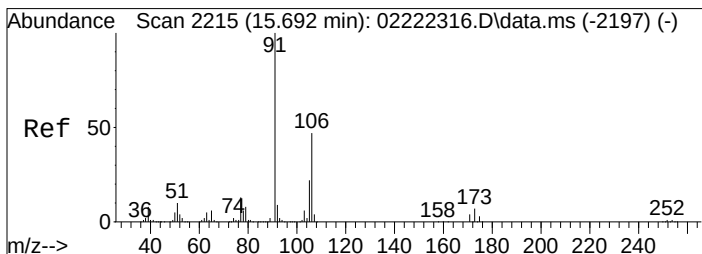
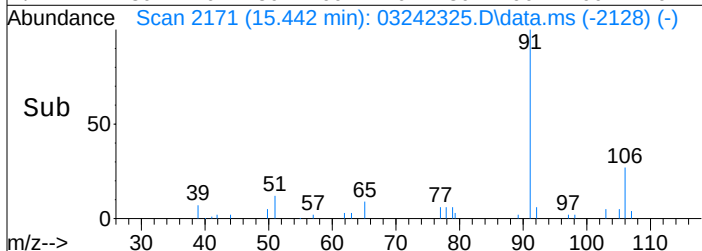
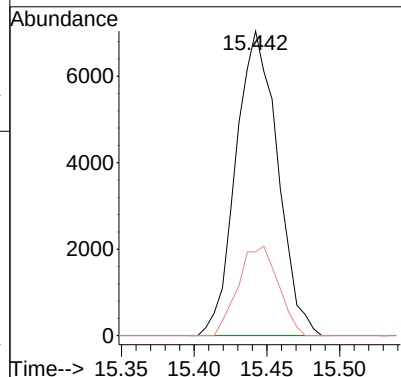
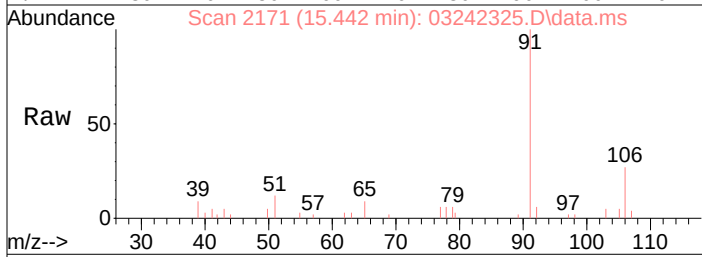
Tgt Ion:	166	Resp:	14688
Ion Ratio		Lower	Upper
166	100		
164	72.3	57.3	97.3





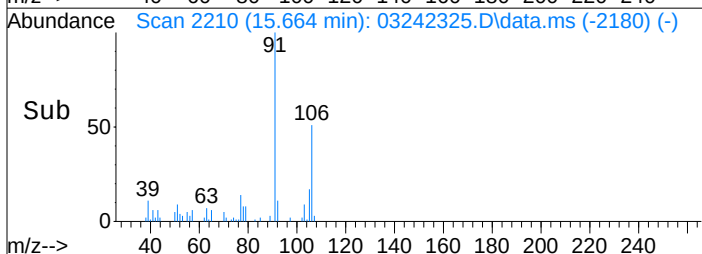
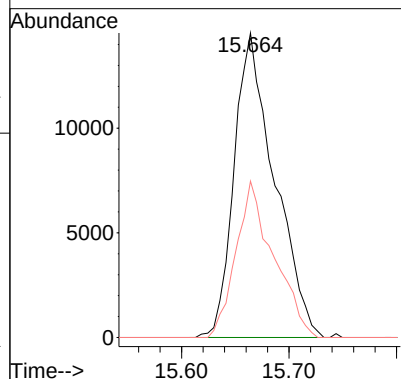
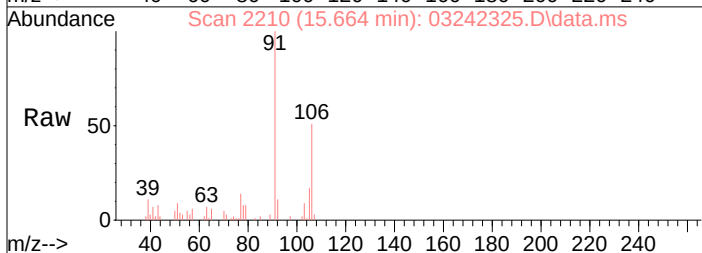
#66
Ethylbenzene
Concen: 0.13 ng
RT: 15.44 min Scan# 2171
Delta R.T. -0.006 min
Lab File: 03242325.D
Acq: 24 Mar 2023 21:01

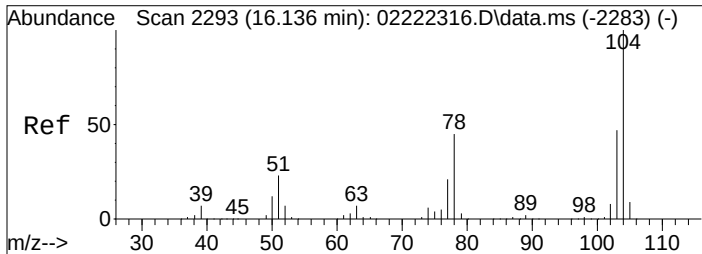
Tgt Ion	Ratio	Resp	Lower	Upper
91	100			
106	28.1	10.4	50.4	



#67
m- & p-Xylenes
Concen: 0.42 ng
RT: 15.66 min Scan# 2210
Delta R.T. -0.028 min
Lab File: 03242325.D
Acq: 24 Mar 2023 21:01

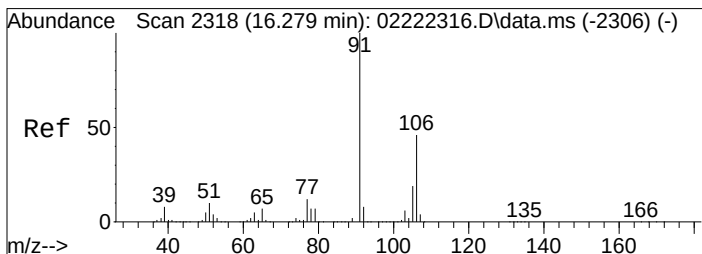
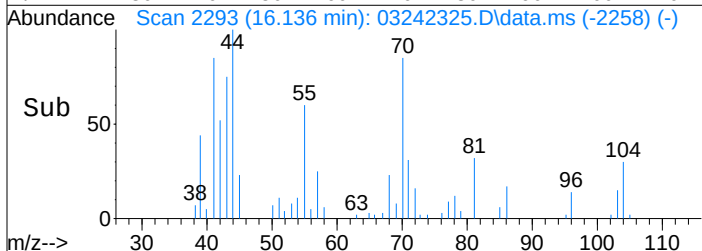
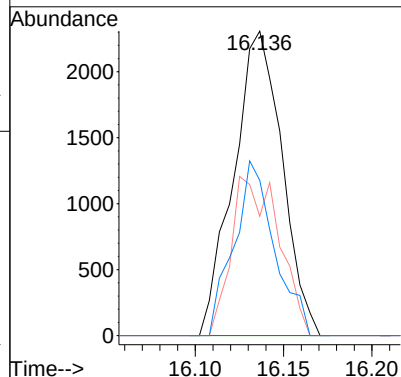
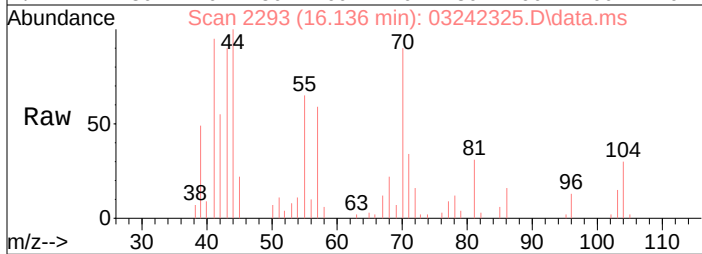
Tgt Ion	Ratio	Resp	Lower	Upper
91	100			
106	48.1	26.2	66.2	





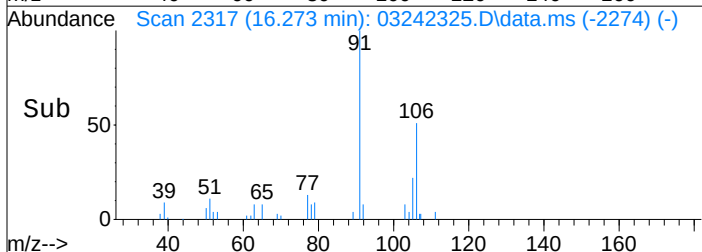
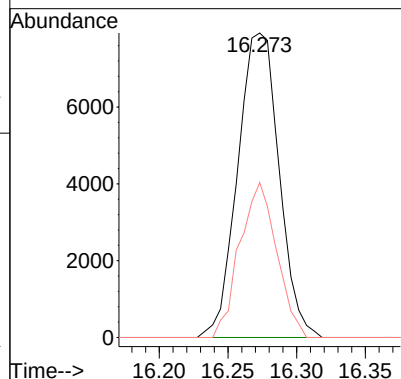
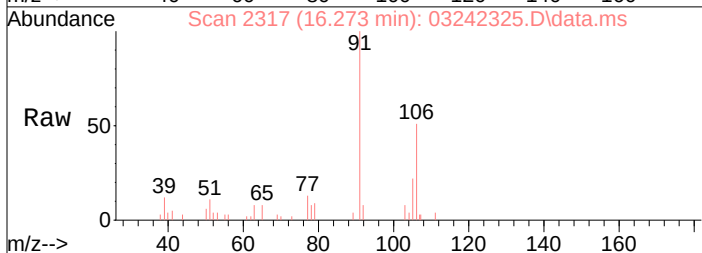
#69
Styrene
Concen: 0.07 ng
RT: 16.14 min Scan# 2293
Delta R.T. 0.000 min
Lab File: 03242325.D
Acq: 24 Mar 2023 21:01

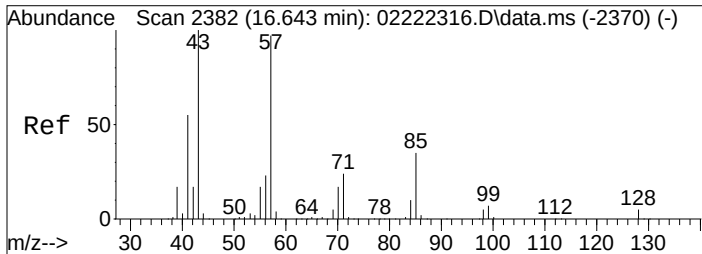
Tgt Ion: 104	Resp: 4405
Ion Ratio	Lower Upper
104 100	
78 51.3	24.7 64.7
103 48.2	27.8 67.8



#70
o-Xylene
Concen: 0.19 ng
RT: 16.27 min Scan# 2317
Delta R.T. -0.006 min
Lab File: 03242325.D
Acq: 24 Mar 2023 21:01

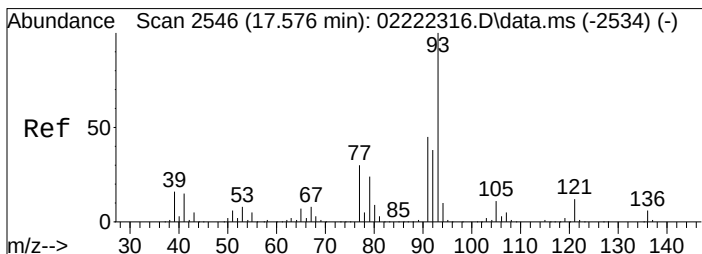
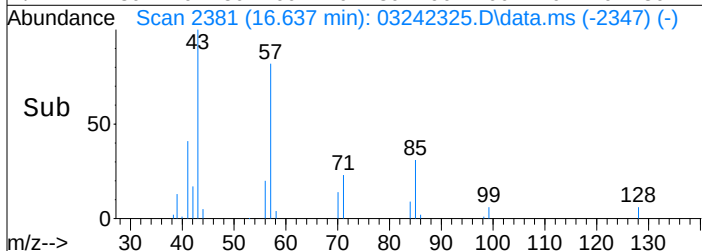
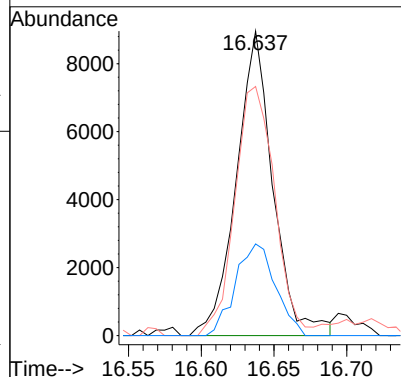
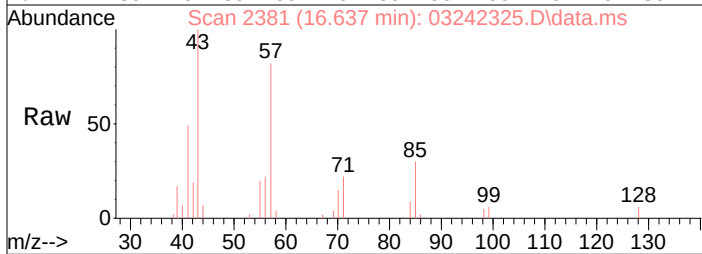
Tgt Ion: 91	Resp: 16623
Ion Ratio	Lower Upper
91 100	
106 45.4	25.4 65.4





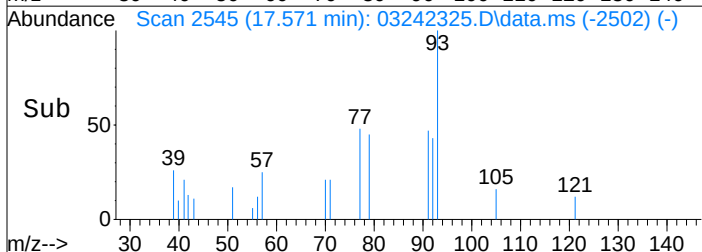
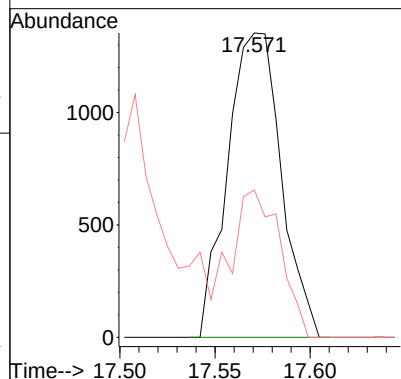
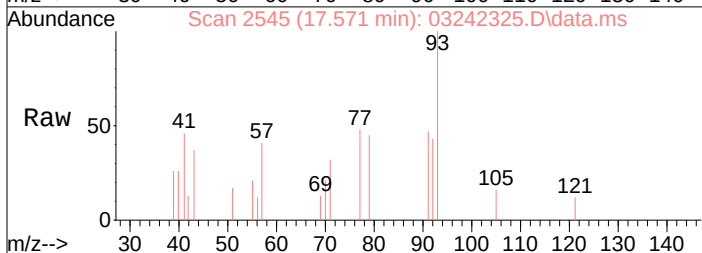
#71
n-Nonane
Concen: 0.38 ng
RT: 16.64 min Scan# 2381
Delta R.T. -0.006 min
Lab File: 03242325.D
Acq: 24 Mar 2023 21:01

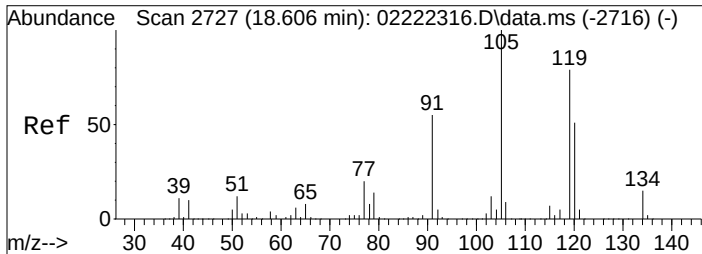
Tgt Ion:	43	Resp:	15682
Ion Ratio		Lower	Upper
43	100		
57	89.0	74.2	114.2
85	33.0	14.2	54.2



#75
alpha-Pinene
Concen: 0.06 ng
RT: 17.57 min Scan# 2545
Delta R.T. -0.006 min
Lab File: 03242325.D
Acq: 24 Mar 2023 21:01

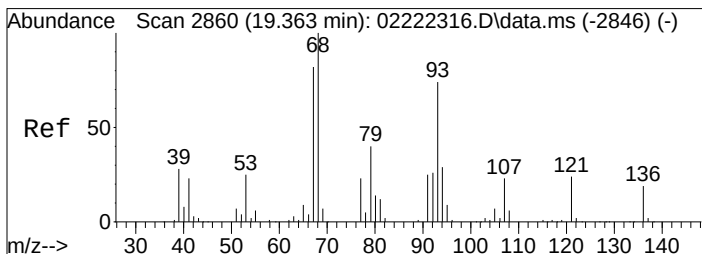
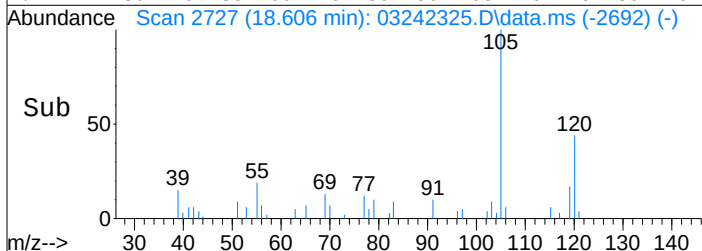
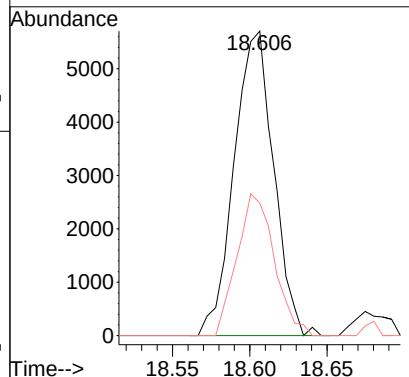
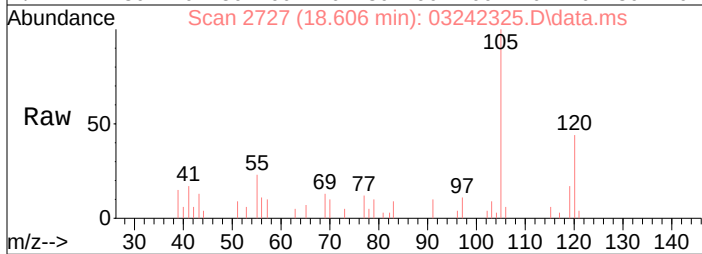
Tgt Ion:	93	Resp:	2650
Ion Ratio		Lower	Upper
93	100		
77	44.4	11.1	51.1





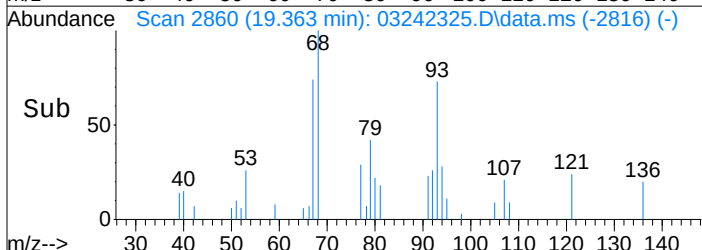
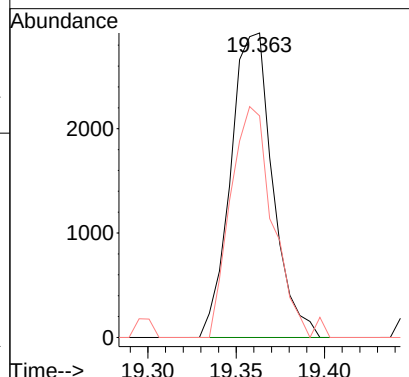
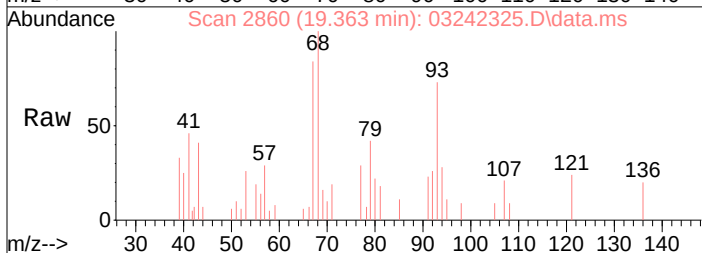
#82
 1,2,4-Trimethylbenzene
 Concen: 0.12 ng
 RT: 18.61 min Scan# 2727
 Delta R.T. 0.000 min
 Lab File: 03242325.D
 Acq: 24 Mar 2023 21:01

Tgt Ion:	105	Resp:	10156
Ion Ratio		Lower	Upper
105	100		
120	44.0	32.8	72.8



#91
 d-Limonene
 Concen: 0.16 ng
 RT: 19.36 min Scan# 2860
 Delta R.T. 0.000 min
 Lab File: 03242325.D
 Acq: 24 Mar 2023 21:01

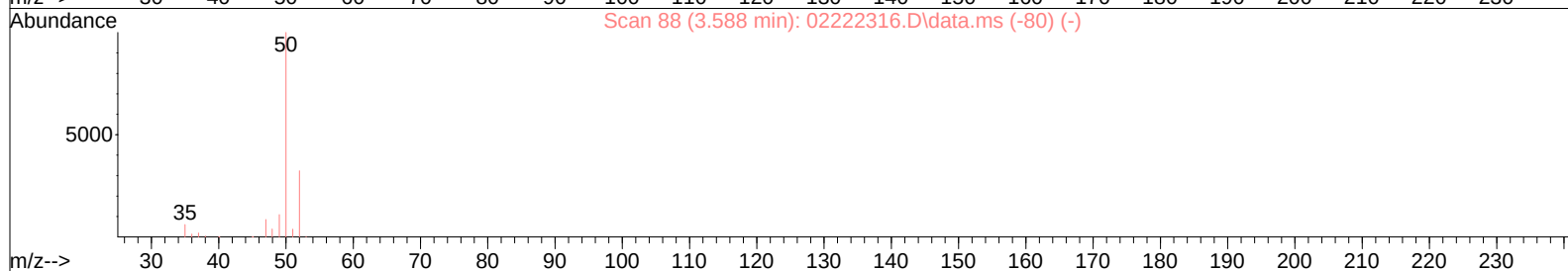
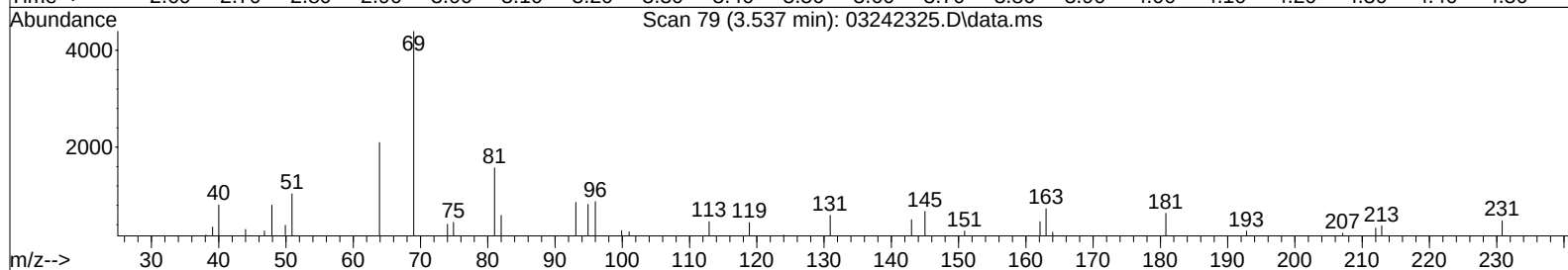
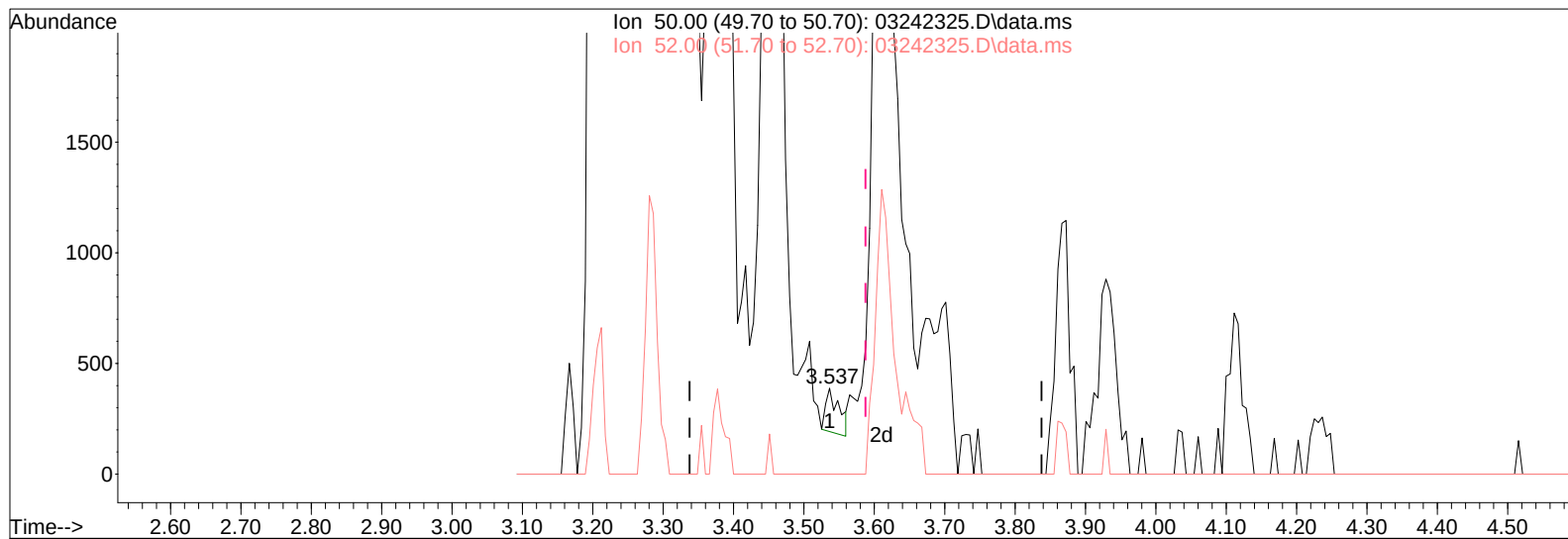
Tgt Ion:	68	Resp:	4837
Ion Ratio		Lower	Upper
68	100		
93	77.2	54.8	94.8



Data File : I:\MS13\DATA\2023_03\24\03242325.D
Acq On : 24 Mar 2023 21:01
Sample : P2301250-020 (1000mL)
Misc : S35-01202301

Vial: 9
Operator: TZ
Inst : MS13

Quant Time: Mar 25 06:49:50 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03242325.D\data.ms

(4) Chloromethane (T)

3.537min (-0.051) 0.01ng

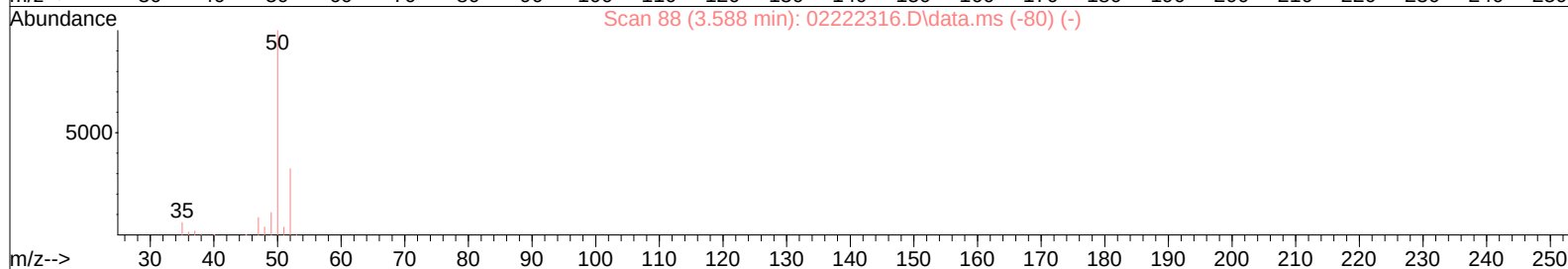
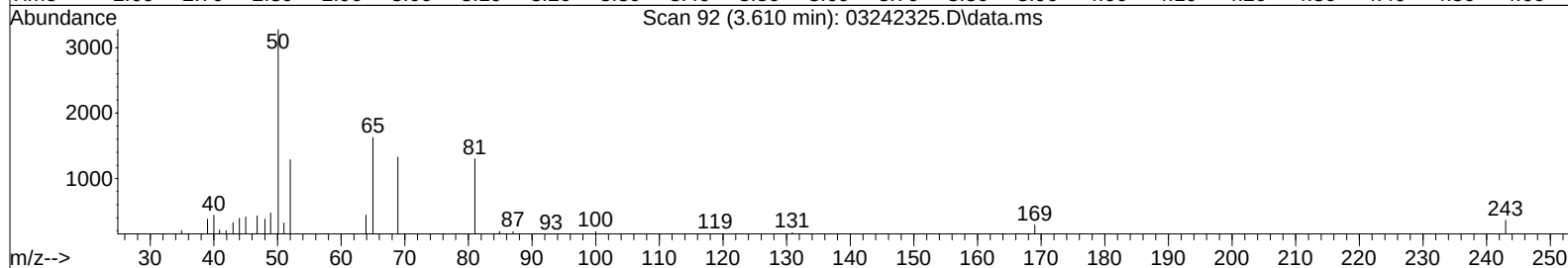
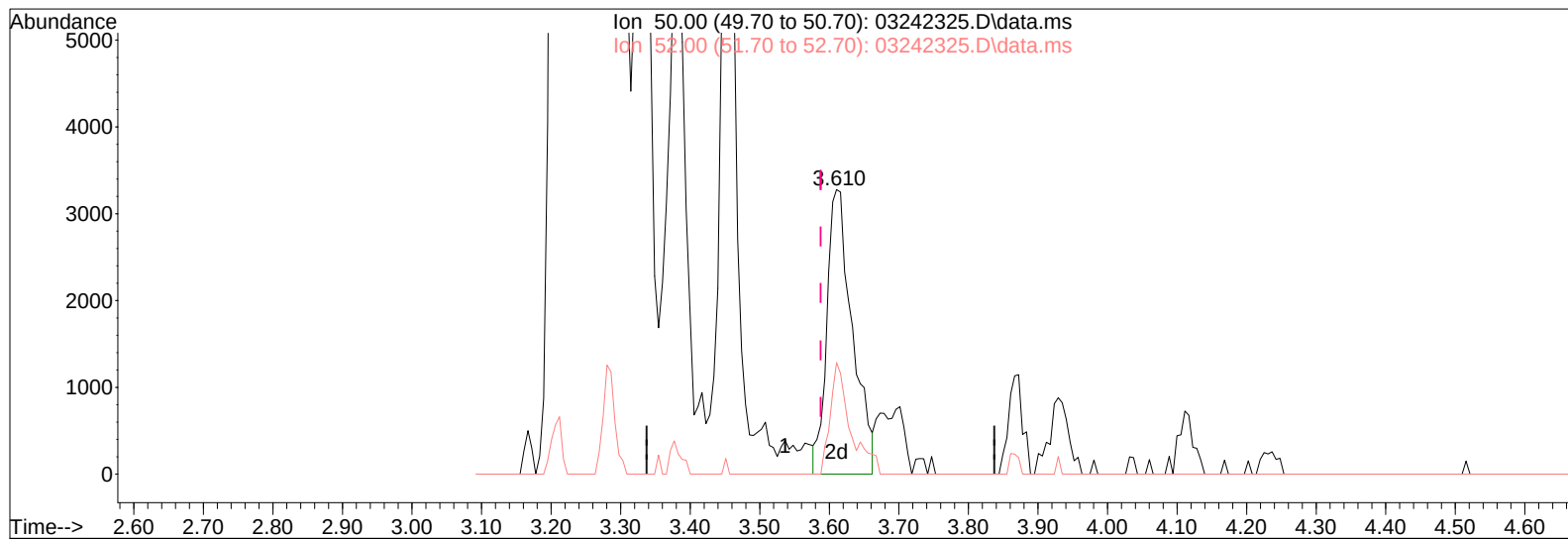
response 257

Ion	Exp%	Act%
50.00	100	100
52.00	33.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data File : I:\MS13\DATA\2023_03\24\03242325.D
Acq On : 24 Mar 2023 21:01
Sample : P2301250-020 (1000mL)
Misc : S35-01202301

Vial: 9
Operator: TZ
Inst : MS13

Quant Time: Mar 25 06:49:50 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03242325.D\data.ms

(4) Chloromethane (T)

3.610min (+0.023) 0.27ng m

response 8311

MP

TZ 3/27/23

Ion	Exp%	Act%
50.00	100	100
52.00	33.00	25.81
0.00	0.00	0.00
0.00	0.00	0.00

3/28/23

Data File : I:\MS13\DATA\2023_03\24\03242325.D
 Acq On : 24 Mar 2023 21:01
 Sample : P2301250-020 (1000mL)
 Misc : S35-01202301

Vial: 9
 Operator: TZ
 Inst : MS13

Quant Time: Mar 28 09:59:48 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

TZ 3/28/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.32	130	235053	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	9.37	114	1032407	12.500	ng	-0.01
19) Chlorobenzene-d5 (C_3)	14.88	54	190767	12.500	ng	0.00

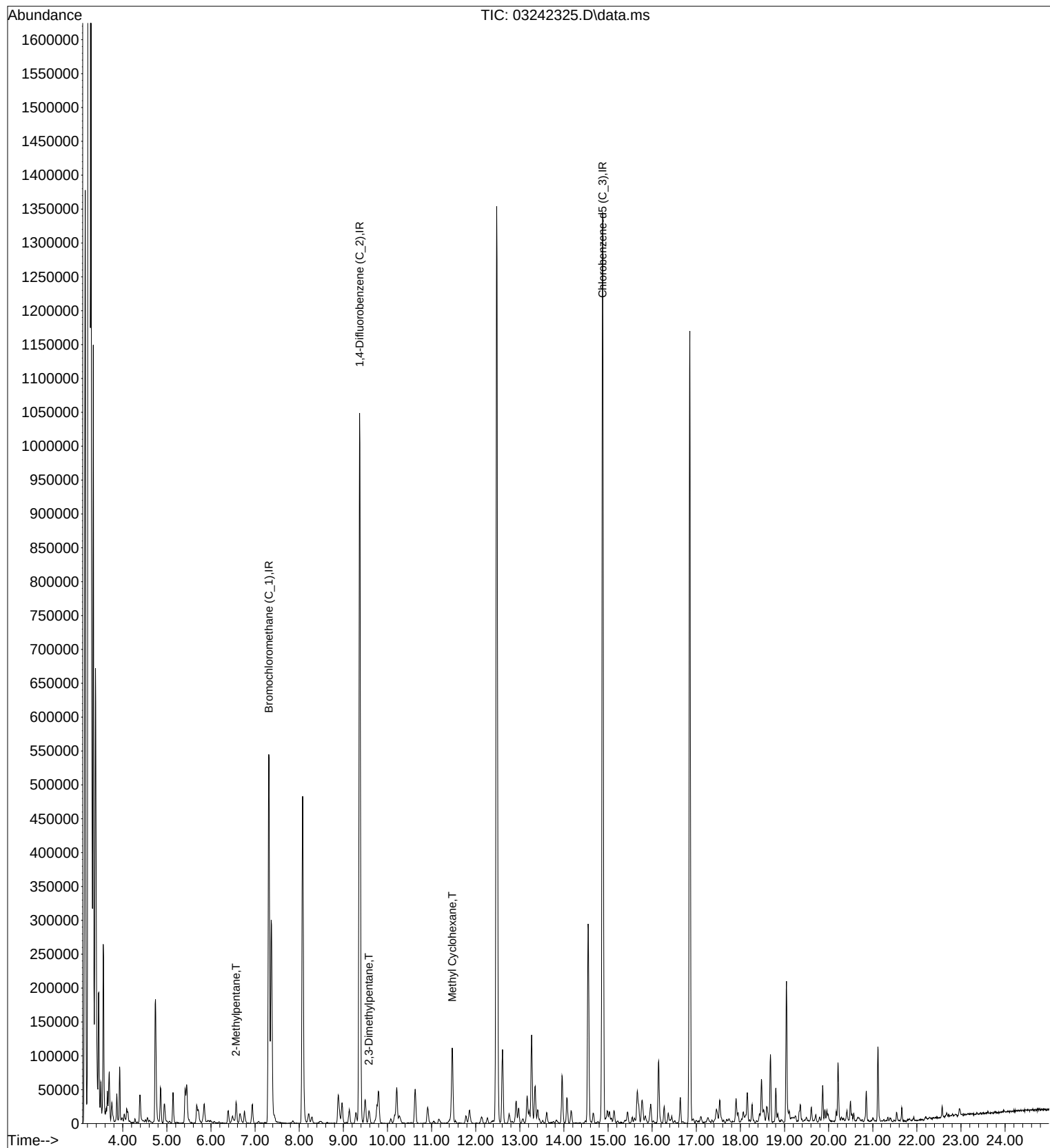
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	0.00	85	0	N.D.	d	
3) 1,1,1,2-Tetrafluoroeth...	0.00	83	0	N.D.	d	
4) 1,1-Difluoroethane	3.34	65	1201	N.D.		
5) Chlorodifluoromethane ...	0.00	67	0	N.D.	d	
6) 1-Chloro-1,1-Difluoroe...	3.60	65	3543	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	0.00	43	0	N.D.	d	
12) 2-Methylpentane	6.57	71	7332	0.446	ng	77
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	9.14	84	1839	N.D.		
17) 2,3-Dimethylpentane	9.58	56	10064	0.331	ng	# 89
18) Dibromomethane	9.86	174	267	N.D.		
20) Methyl Cyclohexane	11.47	55	48317	1.522	ng	87
21) 1,3-Dichloropropane	12.61	76	56	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	15.23	91	108	N.D.		
24) 1,2,3-Trichloropropane	16.38	75	383	N.D.		
25) Bromobenzene	17.05	77	189	N.D.		
26) 2-Chlorotoluene	17.74	91	3326	N.D.		
27) 4-Chlorotoluene	17.74	91	3327	N.D.		
28) Indane	19.39	117	907	N.D.		
29) Indene	19.50	115	71	N.D.		
30) 1,2,4,5-Tetramethylben...	20.70	119	719	N.D.		
31) 1,2,3,4-Tetramethylben...	20.70	119	719	N.D.		
32) 1,2,3,5-Tetramethylben...	21.14	119	542	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242325.D
Acq On : 24 Mar 2023 21:01
Sample : P2301250-020 (1000mL)
Misc : S35-01202301

Vial: 9
Operator: TZ
Inst : MS13

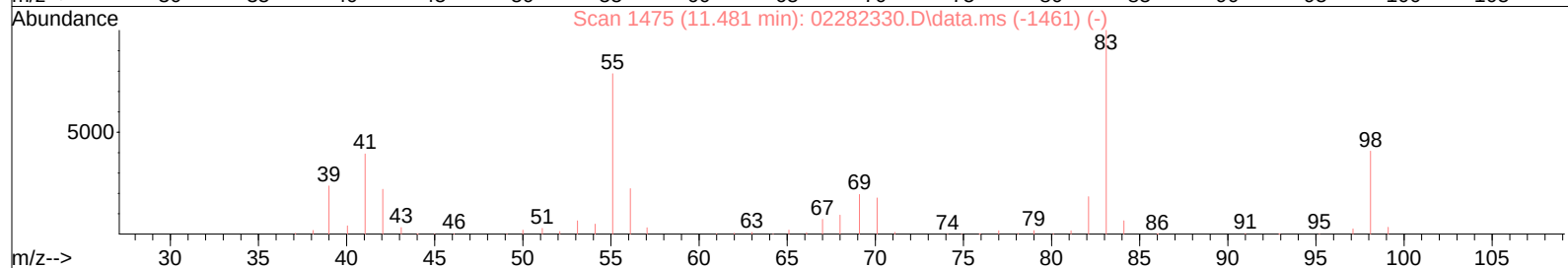
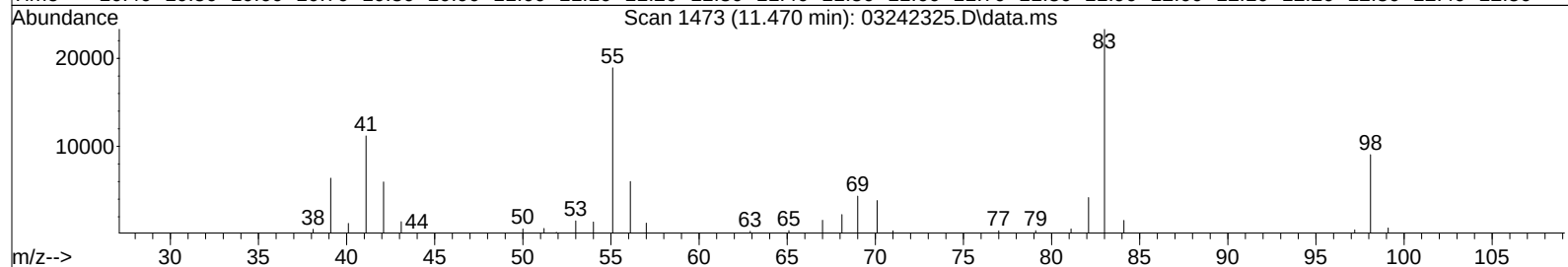
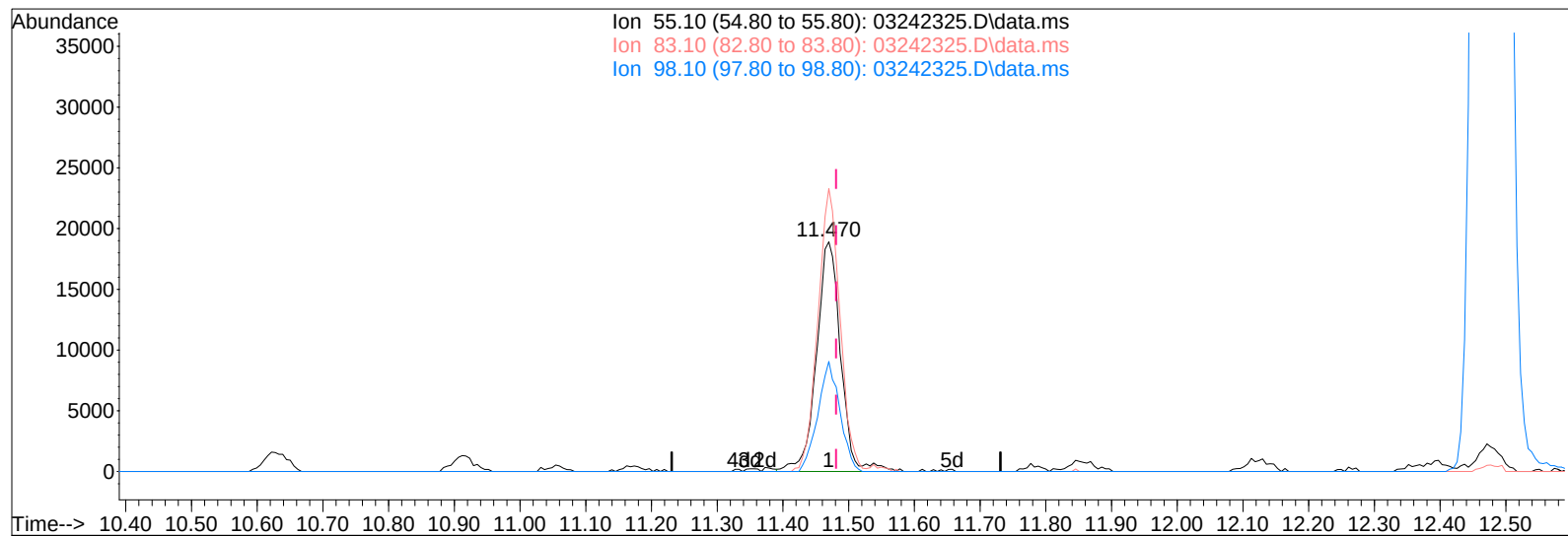
Quant Time: Mar 28 09:59:48 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242325.D
Acq On : 24 Mar 2023 21:01
Sample : P2301250-020 (1000mL)
Misc : S35-01202301

Vial: 9
Operator: TZ
Inst : MS13

Quant Time: Mar 27 16:04:17 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03242325.D\data.ms

(20) Methyl Cyclohexane (T)

11.470min (-0.011) 1.52ng

response 48317

Ion	Exp%	Act%
55.10	100	100
83.10	128.30	112.89
98.10	53.10	43.49
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG33-1

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-021

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02069

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.40 Final Pressure (psig): 4.44

Container Dilution Factor: 1.69

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.8	0.90	0.15	0.57	0.18	0.030	
74-87-3	Chloromethane	ND	0.35	0.15	ND	0.17	0.070	
75-01-4	Vinyl Chloride	ND	0.19	0.096	ND	0.073	0.038	
74-83-9	Bromomethane	ND	0.35	0.13	ND	0.091	0.032	
75-00-3	Chloroethane	ND	0.35	0.11	ND	0.13	0.042	
67-64-1	Acetone	18	8.9	2.0	7.5	3.8	0.85	
75-69-4	Trichlorofluoromethane	1.2	0.88	0.14	0.22	0.16	0.024	
75-35-4	1,1-Dichloroethene	ND	0.19	0.13	ND	0.047	0.032	
75-09-2	Methylene Chloride	5.1	0.90	0.25	1.5	0.26	0.073	
76-13-1	Trichlorotrifluoroethane	0.51	0.91	0.13	0.066	0.12	0.017	J
75-15-0	Carbon Disulfide	0.31	1.8	0.27	0.10	0.58	0.087	J
156-60-5	trans-1,2-Dichloroethene	ND	0.19	0.13	ND	0.047	0.032	
75-34-3	1,1-Dichloroethane	ND	0.19	0.13	ND	0.046	0.033	
1634-04-4	Methyl tert-Butyl Ether	ND	0.91	0.11	ND	0.25	0.030	
78-93-3	2-Butanone (MEK)	2.2	1.8	0.19	0.75	0.60	0.063	
156-59-2	cis-1,2-Dichloroethene	ND	0.19	0.13	ND	0.047	0.032	
67-66-3	Chloroform	0.30	0.19	0.12	0.062	0.038	0.025	
107-06-2	1,2-Dichloroethane	ND	0.19	0.10	ND	0.046	0.025	
71-55-6	1,1,1-Trichloroethane	2.7	0.19	0.11	0.49	0.034	0.020	
71-43-2	Benzene	0.69	0.19	0.13	0.22	0.058	0.041	
56-23-5	Carbon Tetrachloride	0.47	0.19	0.13	0.074	0.030	0.020	
110-82-7	Cyclohexane	1.2	1.8	0.25	0.36	0.52	0.074	J
78-87-5	1,2-Dichloropropane	ND	0.19	0.11	ND	0.040	0.024	
75-27-4	Bromodichloromethane	ND	0.19	0.13	ND	0.028	0.019	
79-01-6	Trichloroethene	1.7	0.19	0.12	0.31	0.035	0.023	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG33-1

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-021

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02069

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.40 Final Pressure (psig): 4.44

Container Dilution Factor: 1.69

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.91	0.14	ND	0.20	0.031	
108-10-1	4-Methyl-2-pentanone	0.39	1.9	0.12	0.096	0.45	0.030	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.86	0.19	ND	0.19	0.041	
79-00-5	1,1,2-Trichloroethane	ND	0.19	0.091	ND	0.034	0.017	
108-88-3	Toluene	5.2	0.90	0.11	1.4	0.24	0.029	
591-78-6	2-Hexanone	0.27	1.9	0.11	0.065	0.45	0.027	J
124-48-1	Dibromochloromethane	ND	0.19	0.12	ND	0.022	0.014	
106-93-4	1,2-Dibromoethane	ND	0.19	0.10	ND	0.024	0.014	
127-18-4	Tetrachloroethene	20	0.19	0.12	3.0	0.027	0.017	
108-90-7	Chlorobenzene	ND	0.90	0.12	ND	0.19	0.026	
100-41-4	Ethylbenzene	0.72	0.90	0.13	0.17	0.21	0.029	J
179601-23-1	m,p-Xylenes	2.5	1.9	0.24	0.59	0.43	0.054	
75-25-2	Bromoform	ND	0.91	0.19	ND	0.088	0.018	
100-42-5	Styrene	0.57	0.90	0.15	0.14	0.21	0.034	J
95-47-6	o-Xylene	1.1	0.90	0.13	0.26	0.21	0.030	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.19	0.13	ND	0.027	0.018	
98-82-8	Cumene	ND	0.91	0.13	ND	0.19	0.026	
541-73-1	1,3-Dichlorobenzene	ND	0.90	0.14	ND	0.15	0.022	
106-46-7	1,4-Dichlorobenzene	ND	0.90	0.14	ND	0.15	0.023	
95-50-1	1,2-Dichlorobenzene	ND	0.91	0.13	ND	0.15	0.022	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.9	0.17	ND	0.19	0.017	
120-82-1	1,2,4-Trichlorobenzene	ND	1.9	0.22	ND	0.25	0.030	
79-20-9	Methyl Acetate	ND	0.85	0.41	ND	0.28	0.13	X
108-87-2	Methylcyclohexane	ND	0.85	0.44	ND	0.21	0.11	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS13\DATA\2023_03\24\03242326.D
 Acq On : 24 Mar 2023 21:37
 Sample : P2301250-021 (1000mL)
 Misc : S35-01202301

Vial: 10
 Operator: TZ
 Inst : MS13

Tz 3/27/23

Quant Time: Mar 27 13:45:34 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	234567	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.38	114	1040579	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.87	54	195355	12.500	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	406960	13.074	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	104.56%
57) Toluene-d8 (SS2)	12.48	98	1175063	11.696	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.60%
73) Bromofluorobenzene (SS3)	16.85	174	429012	11.659	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.28%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	3.46	85	71201	1.657	ng	95
4) Chloromethane	0.00	50	0	N.D.	d	
5) 1,2-Dichloro-1,1,2,2-t...	3.73	135	1693	0.078	ng	87
6) Vinyl Chloride	3.74	62	251	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.	d	
8) Bromomethane	4.13	94	582	N.D.		
9) Chloroethane	4.28	64	143	N.D.		
10) Ethanol	4.42	45	1115966	66.988	ng	100
11) Acetonitrile	4.56	41	4565	0.105	ng	97
12) Acrolein	4.64	56	4055	0.294	ng	94
13) Acetone	4.74	58	149332	10.503	ng	# 36
14) Trichlorofluoromethane	4.87	101	27862	0.720	ng	96
15) 2-Propanol (Isopropanol)	4.97	45	161199	2.808	ng	98
16) Acrylonitrile	5.08	53	54	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.44	84	63486	3.046	ng	95
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	5.68	151	6085	0.299	ng	94
22) Carbon Disulfide	5.70	76	15285	0.185	ng	99
23) trans-1,2-Dichloroethene	6.23	61	797	N.D.		
24) 1,1-Dichloroethane	6.40	63	1059	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.	d	
26) Vinyl Acetate	6.52	86	3881	1.009	ng	# 88
27) 2-Butanone (MEK)	6.76	72	16545	1.311	ng	98
28) cis-1,2-Dichloroethene	7.16	61	112	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	7.37	61	127436	15.354	ng	93
31) n-Hexane	7.38	57	10607	0.332	ng	97
32) Chloroform	7.45	83	6797	0.180	ng	100
34) Tetrahydrofuran (THF)	7.85	72	1393	0.107	ng	# 1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.20	62	936	N.D.		
38) 1,1,1-Trichloroethane	8.47	97	54394	1.579	ng	99
39) Isopropyl Acetate	9.38	61	29524	No Calib		
40) 1-Butanol	8.88	56	48721	No Calib	#	
41) Benzene	8.98	78	32913	0.407	ng	98
42) Carbon Tetrachloride	9.14	117	8406	0.277	ng	93
43) Cyclohexane	9.28	84	21591	0.728	ng	91
44) tert-Amyl Methyl Ether	9.65	73	1939	N.D.		
45) 1,2-Dichloropropane	9.92	63	1004	N.D.		
46) Bromodichloromethane	10.15	83	346	N.D.		
47) Trichloroethene	10.21	130	23371	0.985	ng	98
48) 1,4-Dioxane	0.00	88	0	N.D.	d	
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.	d	
50) Methyl Methacrylate	10.47	100	227	N.D.		

Data File : I:\MS13\DATA\2023_03\24\03242326.D
 Acq On : 24 Mar 2023 21:37
 Sample : P2301250-021 (1000mL)
 Misc : S35-01202301

Vial: 10
 Operator: TZ
 Inst : MS13

Quant Time: Mar 27 13:45:34 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

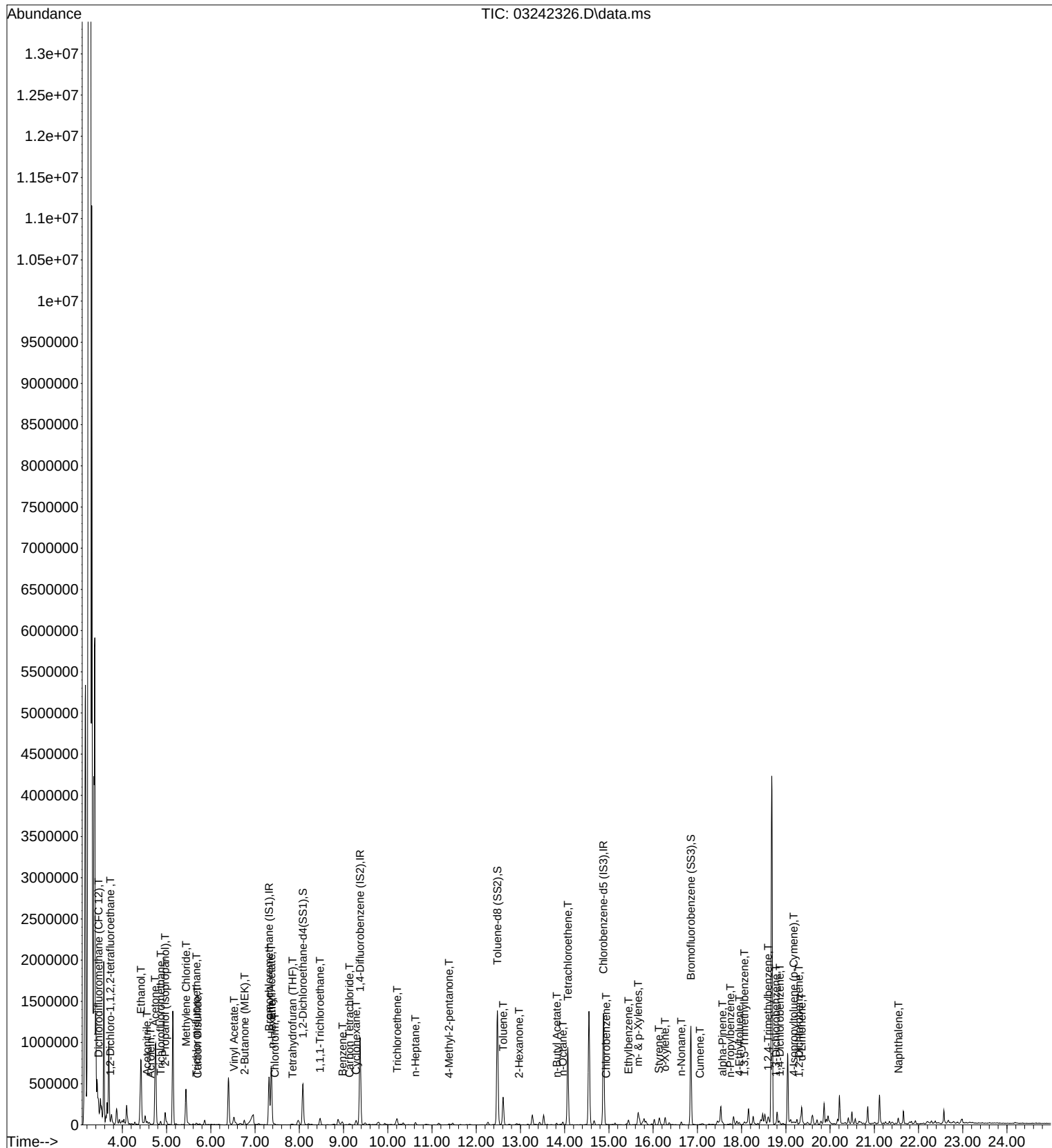
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.62	71	7970	0.407	ng	97
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.38	58	4054	0.232	ng #	71
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.61	91	292776	3.061	ng	100
59) 2-Hexanone	12.97	43	7361	0.158	ng #	68
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	13.42	107	398	N.D.		
62) n-Butyl Acetate	13.82	43	18084	0.342	ng	96
63) n-Octane	13.96	57	6877	0.366	ng	88
64) Tetrachloroethene	14.07	166	345617	11.879	ng	99
65) Chlorobenzene	14.94	112	3891	0.062	ng	95
66) Ethylbenzene	15.44	91	48494	0.425	ng	99
67) m- & p-Xylenes	15.66	91	138466	1.508	ng	99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.13	104	21461	0.340	ng	99
70) o-Xylene	16.27	91	57927	0.660	ng	98
71) n-Nonane	16.64	43	14210	0.334	ng	99
72) 1,1,2,2-Tetrachloroethane	16.14	83	210	N.D.		
74) Cumene	17.06	105	5450	0.051	ng	95
75) alpha-Pinene	17.57	93	14290	0.290	ng	98
76) n-Propylbenzene	17.75	91	10885	0.085	ng	95
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	12513	0.122	ng	99
79) 1,3,5-Trimethylbenzene	18.07	105	12102	0.134	ng	99
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.60	105	41146	0.461	ng	87
83) n-Decane	17.13	58	1632	No Calib	#	
84) Benzyl Chloride	18.75	91	444	N.D.		
85) 1,3-Dichlorobenzene	18.78	146	2784	0.052	ng	98
86) 1,4-Dichlorobenzene	18.86	146	3509	0.063	ng	97
87) sec-Butylbenzene	18.96	105	1417	N.D.		
88) 4-Isopropyltoluene (p-...	19.18	119	11027	0.106	ng	86
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.30	146	3677	0.069	ng	87
91) d-Limonene	19.36	68	45971	1.522	ng	97
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.26	58	3473	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	560	N.D.		
95) Naphthalene	21.55	128	12715	0.131	ng	94
96) n-Dodecane	19.20	58	1055	No Calib	#	
97) Hexachlorobutadiene	21.99	225	104	N.D.		
98) Cyclohexanone	15.65	55	1389	No Calib	#	
99) tert-Butylbenzene	0.00	119	0	N.D.	d	
100) n-Butylbenzene	0.00	91	0	N.D.	d	
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242326.D
Acq On : 24 Mar 2023 21:37
Sample : P2301250-021 (1000mL)
Misc : S35-01202301

Vial: 10
Operator: TZ
Inst : MS13

Quant Time: Mar 27 13:45:34 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242326.D
 Acq On : 24 Mar 2023 21:37
 Sample : P2301250-021 (1000mL)
 Misc : S35-01202301

Vial: 10
 Operator: TZ
 Inst : MS13

TZ 3/27/23

Quant Time: Mar 27 13:45:34 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	234567	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.38	114	1040579	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.87	54	195355	12.500	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	406960	13.074	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	104.56%
57) Toluene-d8 (SS2)	12.48	98	1175063	11.696	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.60%
73) Bromofluorobenzene (SS3)	16.85	174	429012	11.659	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.28%

Target Compounds

						Qvalue
3) Dichlorodifluoromethan...	3.46	85	71201	1.657	ng	95
5) 1,2-Dichloro-1,1,2,2-t...	3.73	135	1693	0.078	ng	87
10) Ethanol	4.42	45	1115966	66.988	ng	100
11) Acetonitrile	4.56	41	4565	0.105	ng	97
12) Acrolein	4.64	56	4055	0.294	ng	94
13) Acetone	4.74	58	149332	10.503	ng	# 36
14) Trichlorofluoromethane	4.87	101	27862	0.720	ng	96
15) 2-Propanol (Isopropanol)	4.97	45	161199	2.808	ng	98
19) Methylene Chloride	5.44	84	63486	3.046	ng	95
21) Trichlorotrifluoroethane	5.68	151	6085	0.299	ng	94
22) Carbon Disulfide	5.70	76	15285	0.185	ng	99
26) Vinyl Acetate	6.52	86	3881	1.009	ng	# 88
27) 2-Butanone (MEK)	6.76	72	16545	1.311	ng	98
30) Ethyl Acetate	7.37	61	127436	15.354	ng	93
31) n-Hexane	7.38	57	10607	0.332	ng	97
32) Chloroform	7.45	83	6797	0.180	ng	100
34) Tetrahydrofuran (THF)	7.85	72	1393	0.107	ng	# 1
38) 1,1,1-Trichloroethane	8.47	97	54394	1.579	ng	99
41) Benzene	8.98	78	32913	0.407	ng	98
42) Carbon Tetrachloride	9.14	117	8406	0.277	ng	93
43) Cyclohexane	9.28	84	21591	0.728	ng	91
47) Trichloroethene	10.21	130	23371	0.985	ng	98
51) n-Heptane	10.62	71	7970	0.407	ng	97
53) 4-Methyl-2-pentanone	11.38	58	4054	0.232	ng	# 71
58) Toluene	12.61	91	292776	3.061	ng	100
59) 2-Hexanone	12.97	43	7361	0.158	ng	# 68
62) n-Butyl Acetate	13.82	43	18084	0.342	ng	96
63) n-Octane	13.96	57	6877	0.366	ng	88
64) Tetrachloroethene	14.07	166	345617	11.879	ng	99
65) Chlorobenzene	14.94	112	3891	0.062	ng	95
66) Ethylbenzene	15.44	91	48494	0.425	ng	99
67) m- & p-Xylenes	15.66	91	138466	1.508	ng	99
69) Styrene	16.13	104	21461	0.340	ng	99
70) o-Xylene	16.27	91	57927	0.660	ng	98
71) n-Nonane	16.64	43	14210	0.334	ng	99
74) Cumene	17.06	105	5450	0.051	ng	95
75) alpha-Pinene	17.57	93	14290	0.290	ng	98
76) n-Propylbenzene	17.75	91	10885	0.085	ng	95
78) 4-Ethyltoluene	17.95	105	12513	0.122	ng	99
79) 1,3,5-Trimethylbenzene	18.07	105	12102	0.134	ng	99
82) 1,2,4-Trimethylbenzene	18.60	105	41146	0.461	ng	87
85) 1,3-Dichlorobenzene	18.78	146	2784	0.052	ng	98
86) 1,4-Dichlorobenzene	18.86	146	3509	0.063	ng	97
88) 4-Isopropyltoluene (p-...	19.18	119	11027	0.106	ng	86
90) 1,2-Dichlorobenzene	19.30	146	3677	0.069	ng	87
91) d-Limonene	19.36	68	45971	1.522	ng	97
95) Naphthalene	21.55	128	12715	0.131	ng	94

Data File : I:\MS13\DATA\2023_03\24\03242326.D Vial: 10
Acq On : 24 Mar 2023 21:37 Operator: TZ
Sample : P2301250-021 (1000mL) Inst : MS13
Misc : S35-01202301

Quant Time: Mar 27 13:45:34 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M

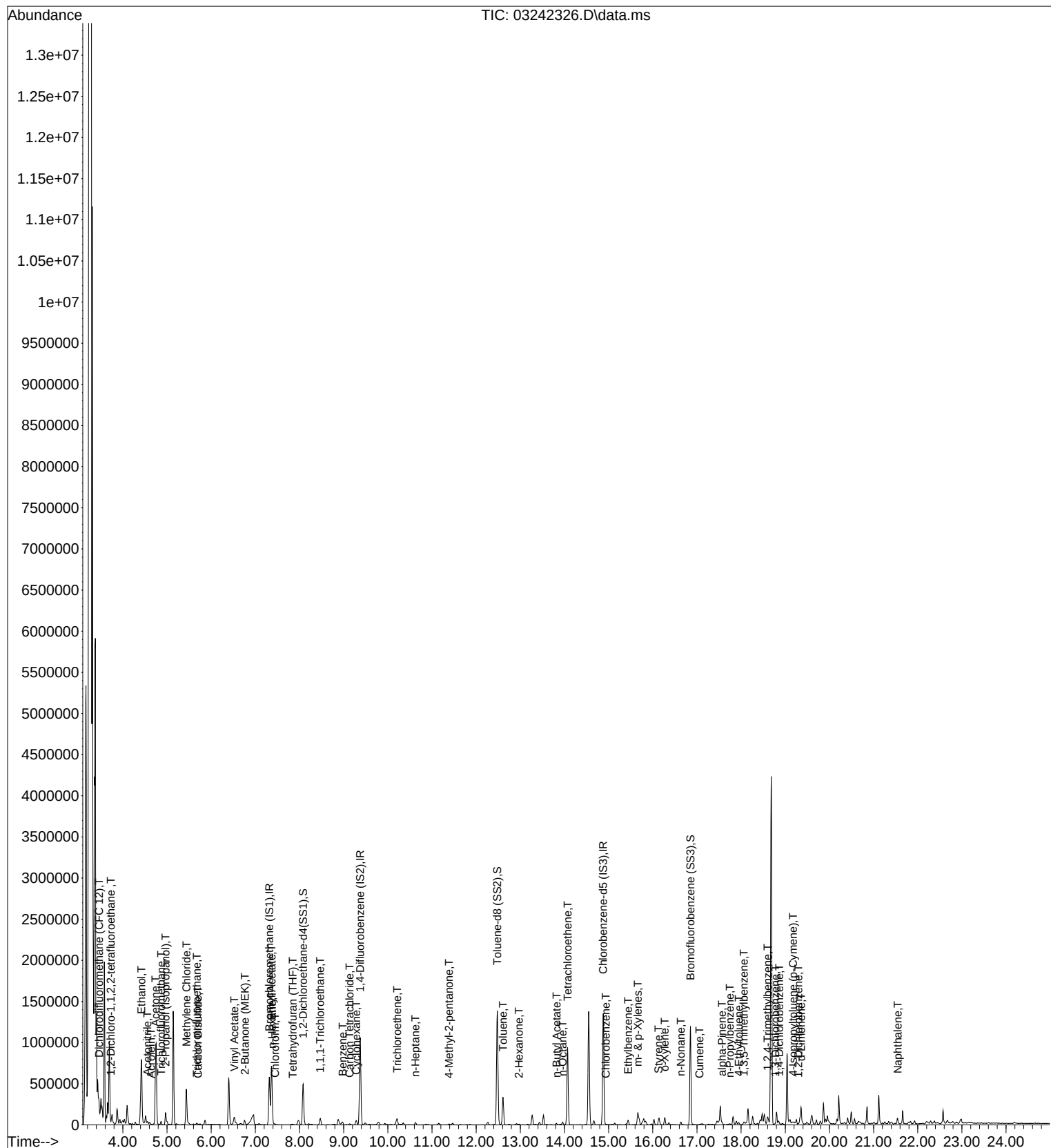
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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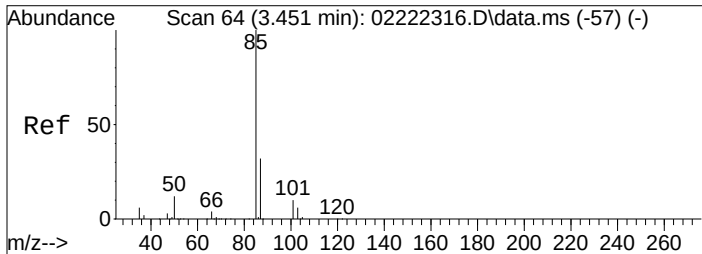
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS13\DATA\2023_03\24\03242326.D
Acq On : 24 Mar 2023 21:37
Sample : P2301250-021 (1000mL)
Misc : S35-01202301

Vial: 10
Operator: TZ
Inst : MS13

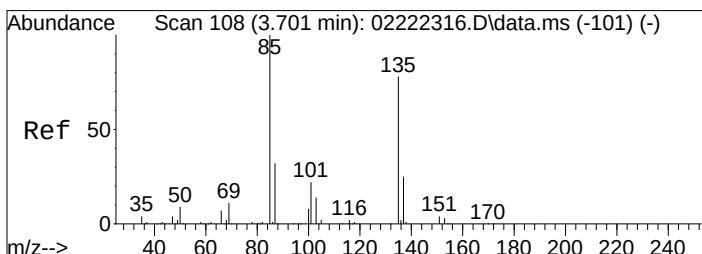
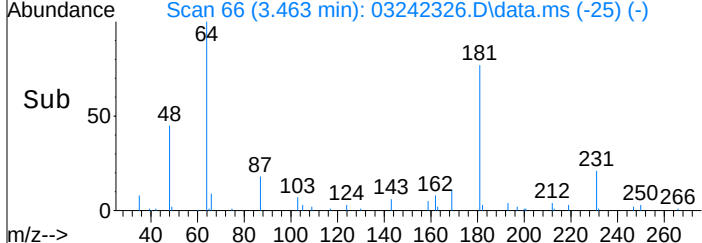
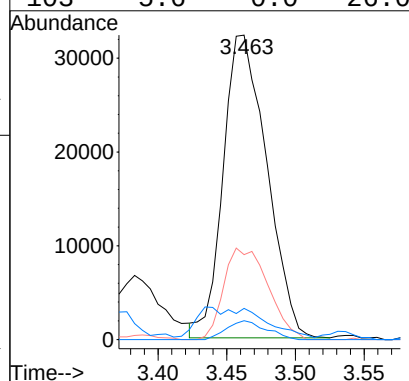
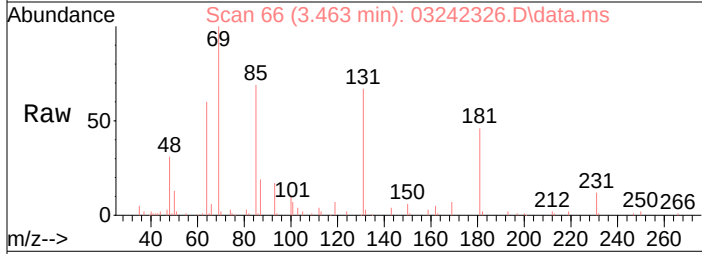
Quant Time: Mar 27 13:45:34 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M





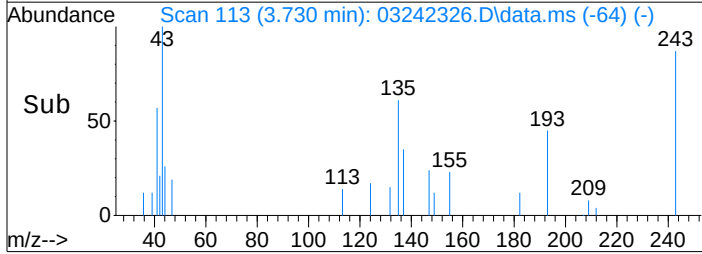
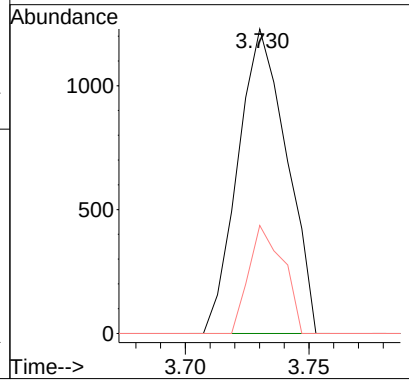
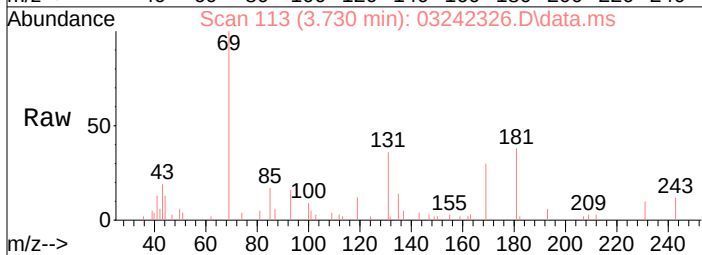
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.66 ng
 RT: 3.46 min Scan# 66
 Delta R.T. -0.015 min
 Lab File: 03242326.D
 Acq: 24 Mar 2023 21:37

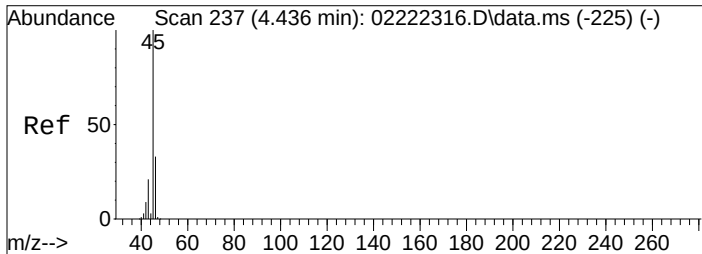
Tgt Ion:	85	Resp:	71201
Ion Ratio		Lower	Upper
85	100		
87	30.7	12.4	52.4
101	14.8	0.0	29.4
103	5.6	0.0	26.0



#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.08 ng
 RT: 3.73 min Scan# 113
 Delta R.T. 0.029 min
 Lab File: 03242326.D
 Acq: 24 Mar 2023 21:37

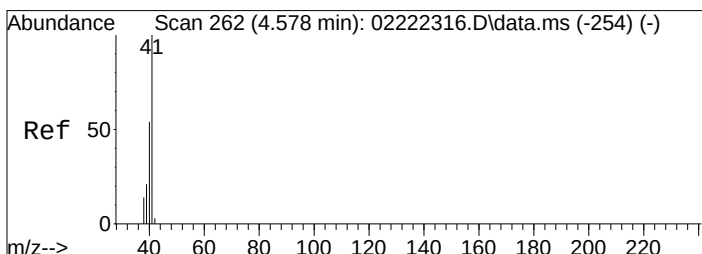
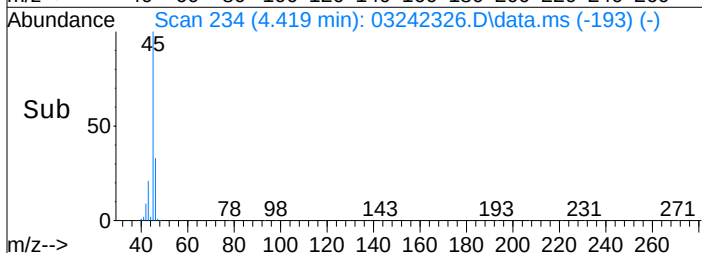
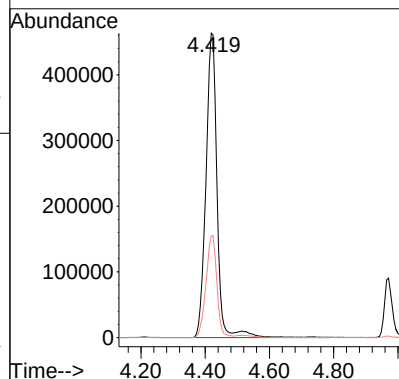
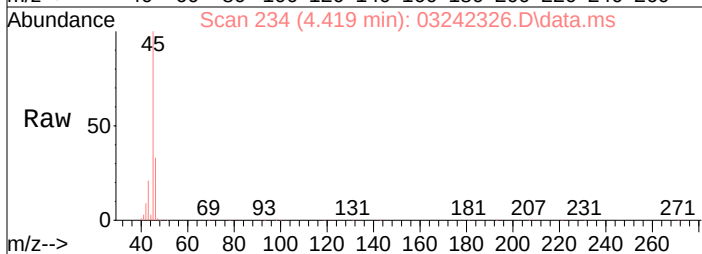
Tgt Ion:	135	Resp:	1693
Ion Ratio		Lower	Upper
135	100		
137	25.1	12.2	52.2





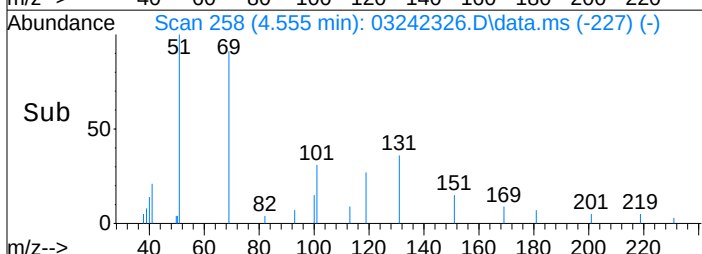
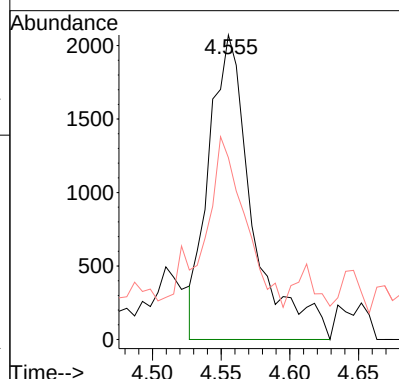
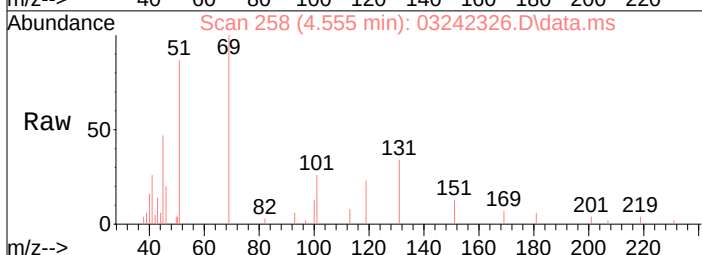
#10
Ethanol
Concen: 66.99 ng
RT: 4.42 min Scan# 234
Delta R.T. -0.017 min
Lab File: 03242326.D
Acq: 24 Mar 2023 21:37

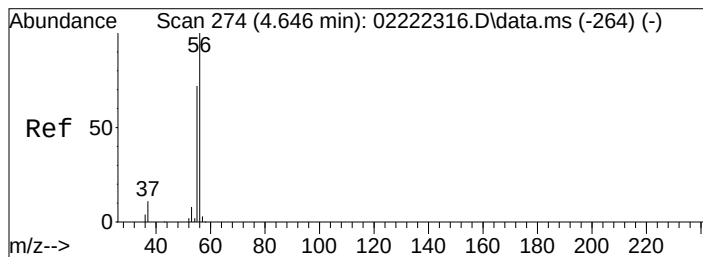
Tgt Ion: 45 Resp: 1115966
Ion Ratio Lower Upper
45 100
46 34.0 13.8 53.8



#11
Acetonitrile
Concen: 0.11 ng
RT: 4.56 min Scan# 258
Delta R.T. -0.023 min
Lab File: 03242326.D
Acq: 24 Mar 2023 21:37

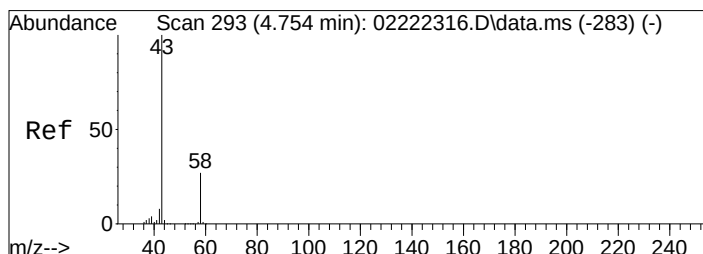
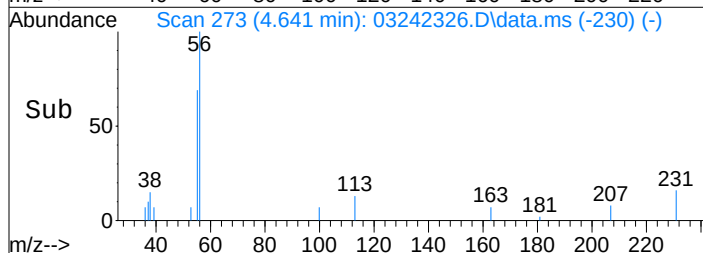
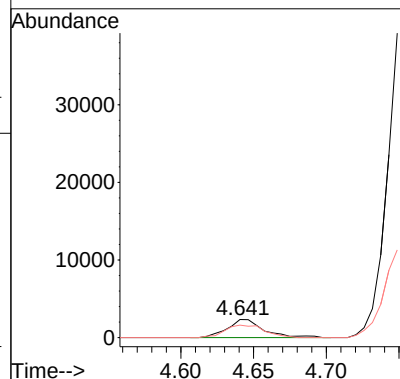
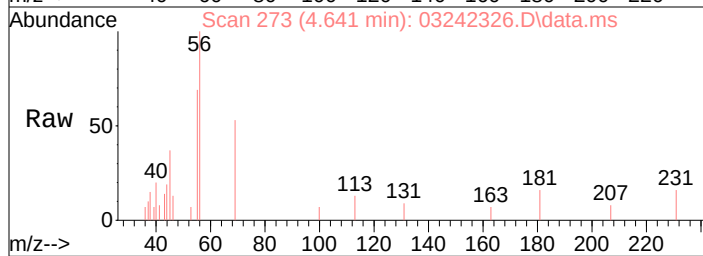
Tgt Ion: 41 Resp: 4565
Ion Ratio Lower Upper
41 100
40 51.9 34.4 74.4





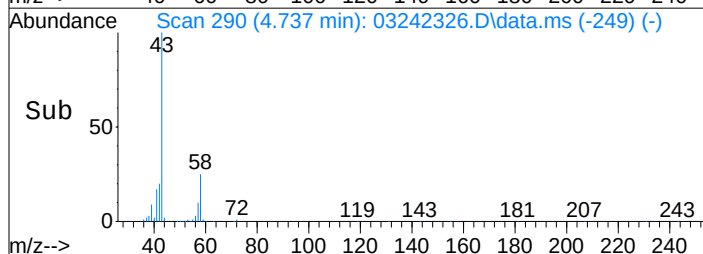
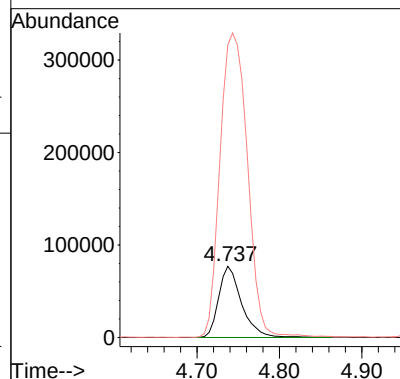
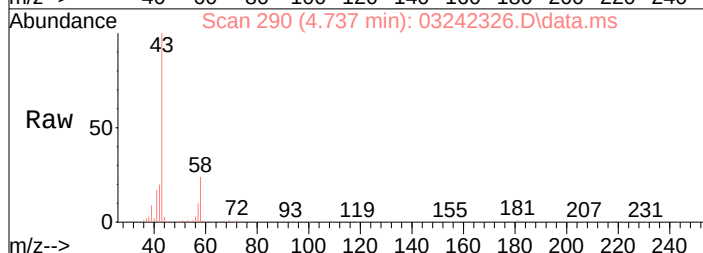
#12
Acrolein
Concen: 0.29 ng
RT: 4.64 min Scan# 273
Delta R.T. -0.005 min
Lab File: 03242326.D
Acq: 24 Mar 2023 21:37

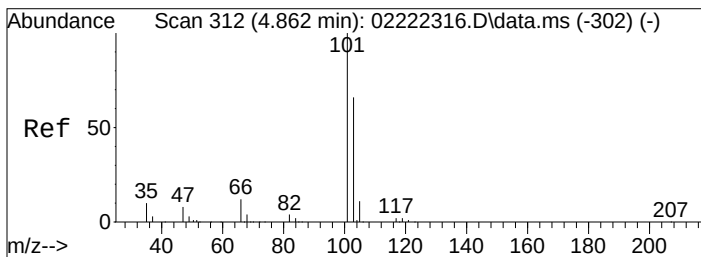
Tgt Ion: 56 Resp: 4055
Ion Ratio Lower Upper
56 100
55 75.8 50.9 90.9



#13
Acetone
Concen: 10.50 ng
RT: 4.74 min Scan# 290
Delta R.T. -0.017 min
Lab File: 03242326.D
Acq: 24 Mar 2023 21:37

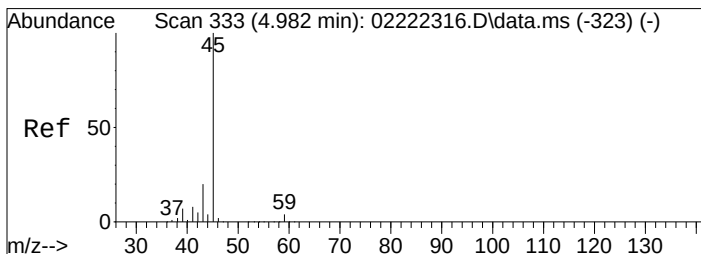
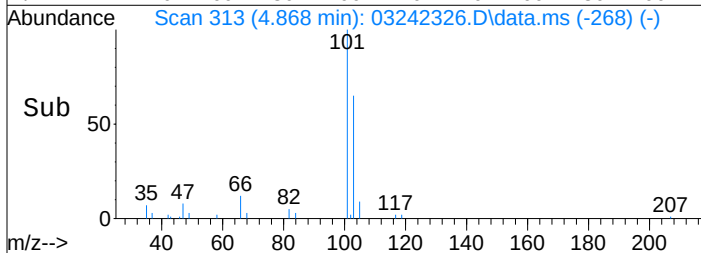
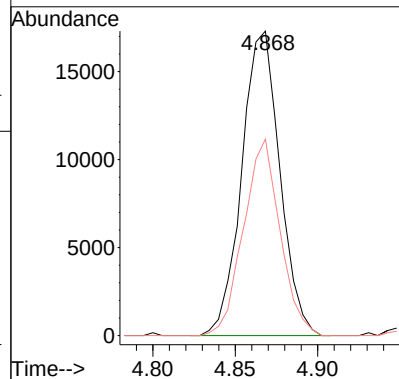
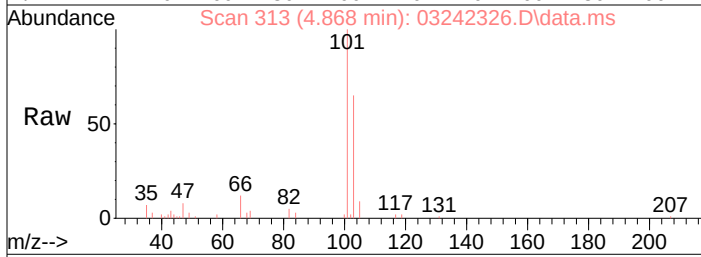
Tgt Ion: 58 Resp: 149332
Ion Ratio Lower Upper
58 100
43 512.3 337.8 397.8#





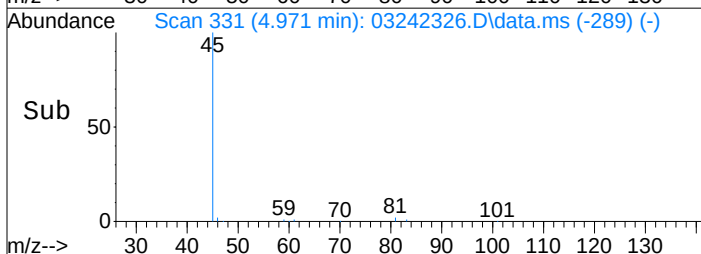
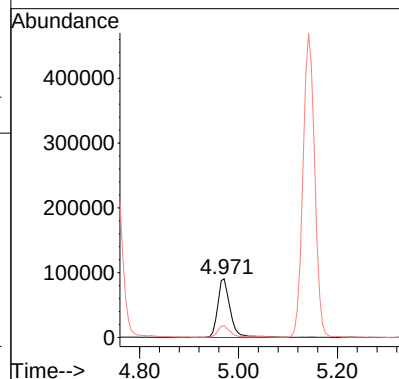
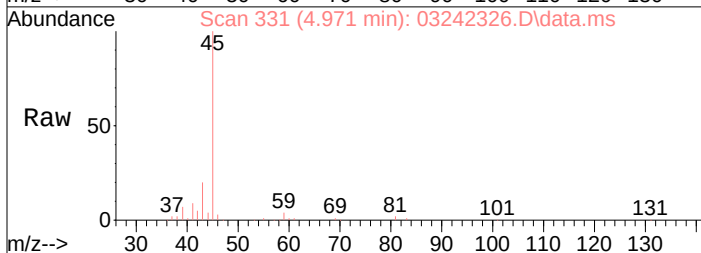
#14
 Trichlorofluoromethane
 Concen: 0.72 ng
 RT: 4.87 min Scan# 313
 Delta R.T. 0.006 min
 Lab File: 03242326.D
 Acq: 24 Mar 2023 21:37

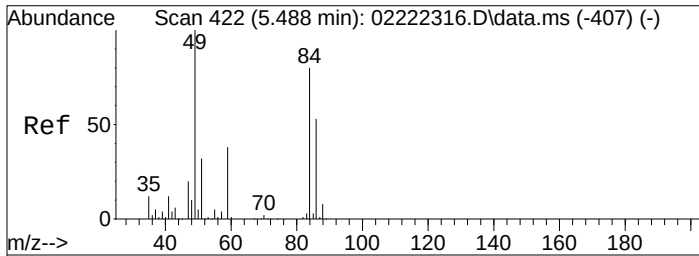
Tgt Ion: 101 Resp: 27862
 Ion Ratio Lower Upper
 101 100
 103 61.8 45.2 85.2



#15
 2-Propanol (Isopropanol)
 Concen: 2.81 ng
 RT: 4.97 min Scan# 331
 Delta R.T. -0.011 min
 Lab File: 03242326.D
 Acq: 24 Mar 2023 21:37

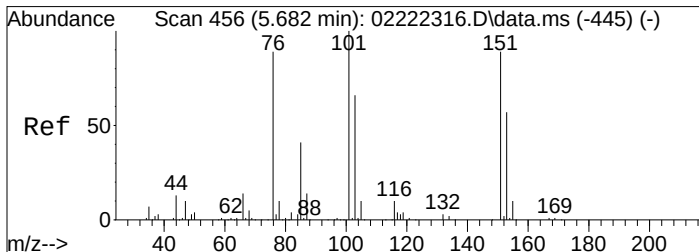
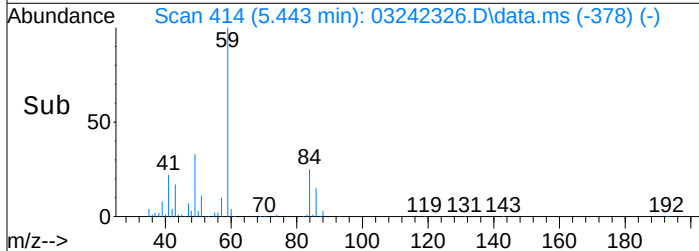
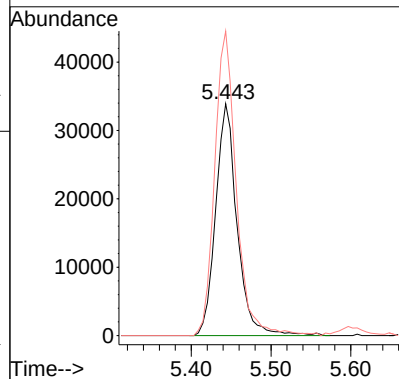
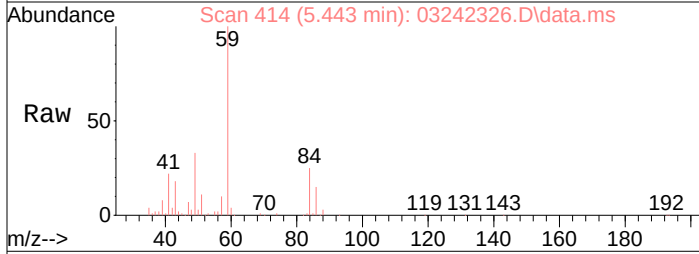
Tgt Ion: 45 Resp: 161199
 Ion Ratio Lower Upper
 45 100
 43 20.8 0.0 39.7





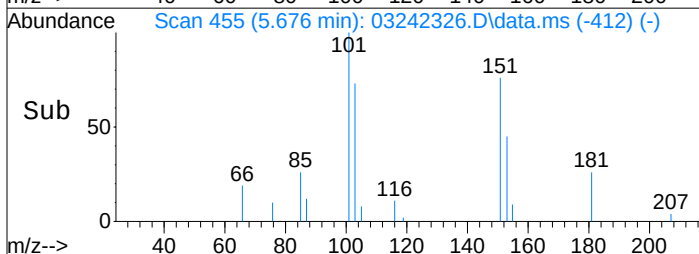
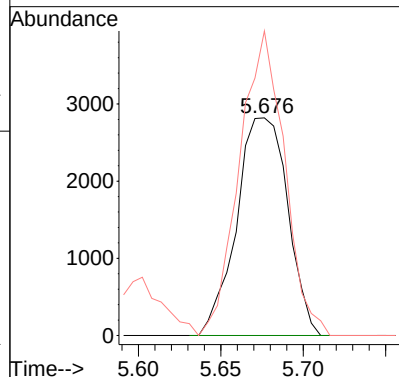
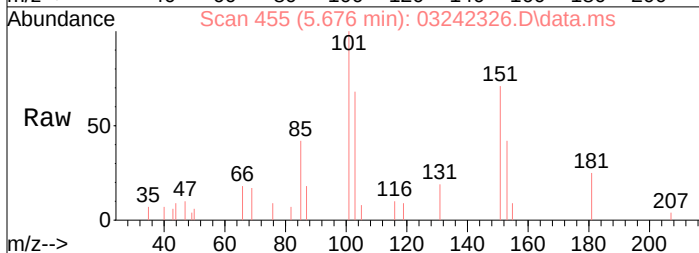
#19
Methylene Chloride
Concen: 3.05 ng
RT: 5.44 min Scan# 414
Delta R.T. -0.045 min
Lab File: 03242326.D
Acq: 24 Mar 2023 21:37

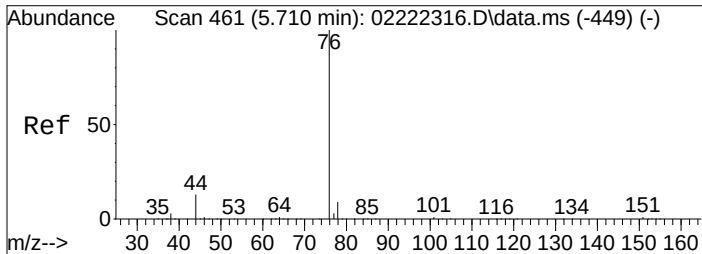
Tgt Ion: 84 Resp: 63486
Ion Ratio Lower Upper
84 100
49 132.2 101.3 151.3



#21
Trichlorotrifluoroethane
Concen: 0.30 ng
RT: 5.68 min Scan# 455
Delta R.T. -0.005 min
Lab File: 03242326.D
Acq: 24 Mar 2023 21:37

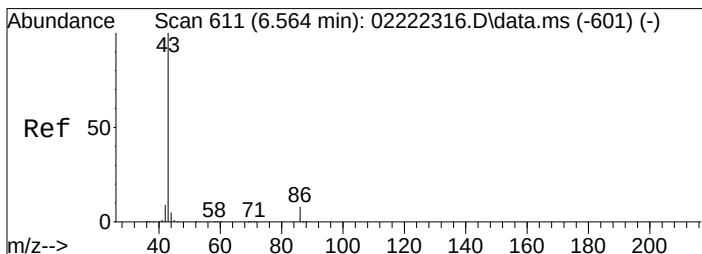
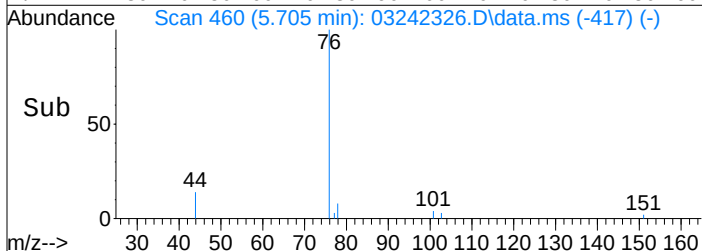
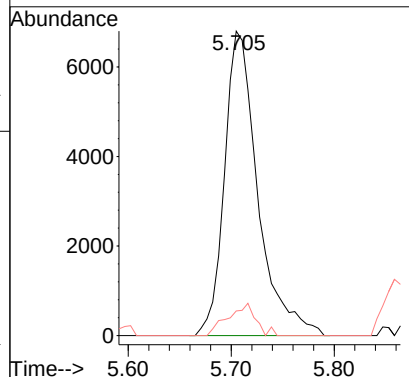
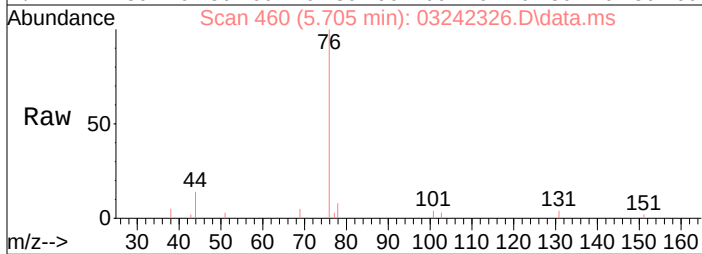
Tgt Ion: 151 Resp: 6085
Ion Ratio Lower Upper
151 100
101 123.3 96.3 136.3





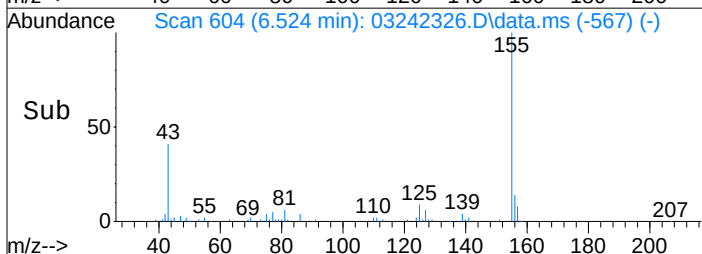
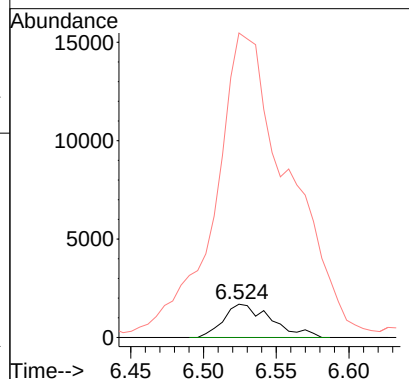
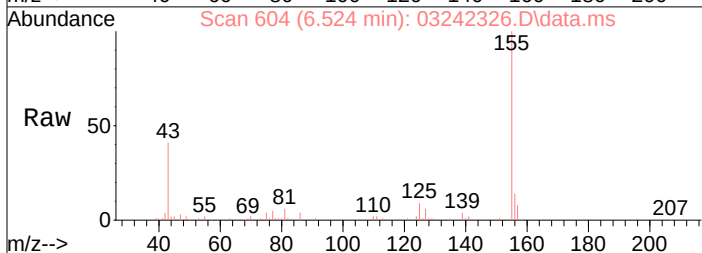
#22
Carbon Disulfide
Concen: 0.19 ng
RT: 5.70 min Scan# 460
Delta R.T. -0.005 min
Lab File: 03242326.D
Acq: 24 Mar 2023 21:37

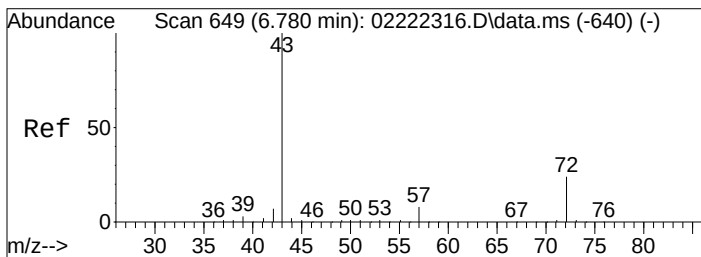
Tgt Ion: 76 Resp: 15285
Ion Ratio Lower Upper
76 100
78 8.8 0.0 29.3



#26
Vinyl Acetate
Concen: 1.01 ng
RT: 6.52 min Scan# 604
Delta R.T. -0.040 min
Lab File: 03242326.D
Acq: 24 Mar 2023 21:37

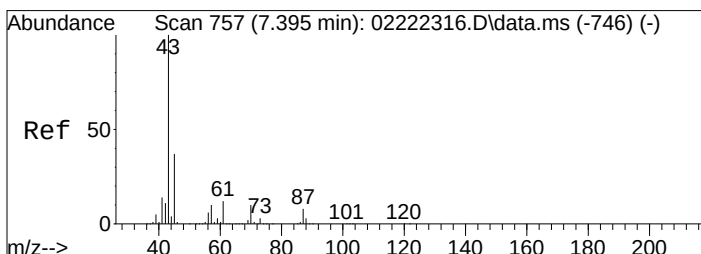
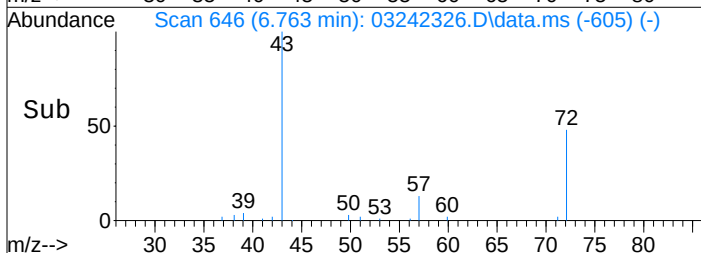
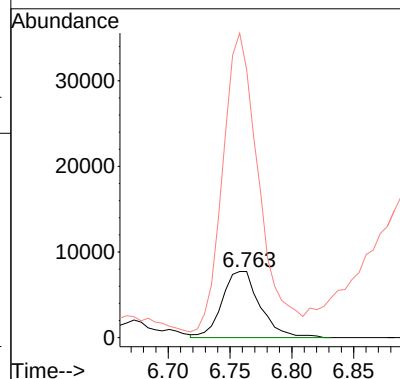
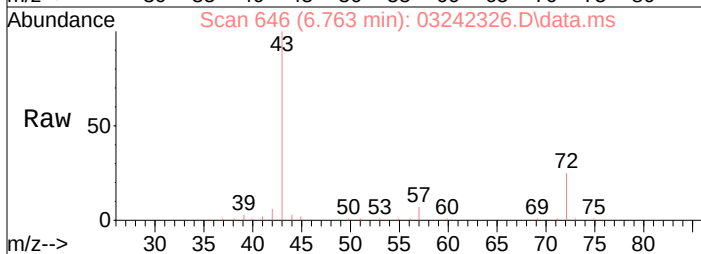
Tgt Ion: 86 Resp: 3881
Ion Ratio Lower Upper
86 100
43 1379.8 1292.1 1332.1#





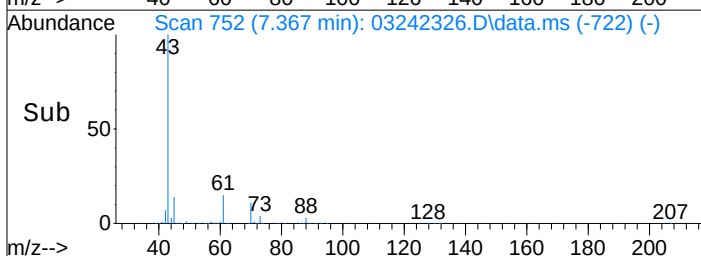
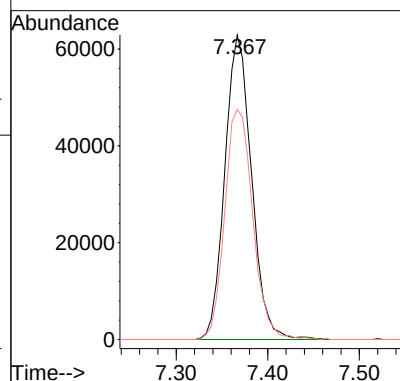
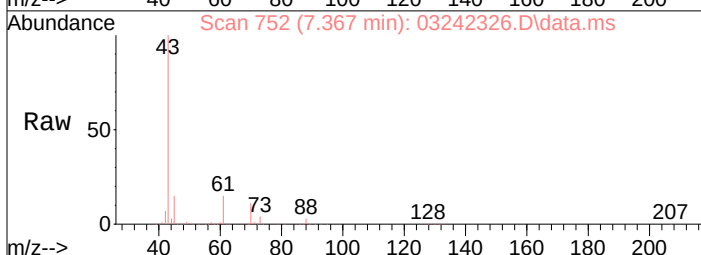
#27
2-Butanone (MEK)
Concen: 1.31 ng
RT: 6.76 min Scan# 646
Delta R.T. -0.017 min
Lab File: 03242326.D
Acq: 24 Mar 2023 21:37

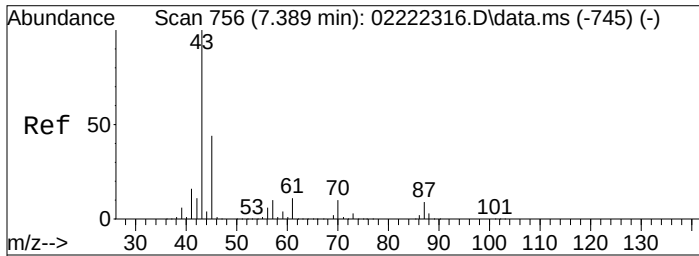
Tgt Ion: 72 Resp: 16545
Ion Ratio Lower Upper
72 100
43 425.9 400.5 440.5



#30
Ethyl Acetate
Concen: 15.35 ng
RT: 7.37 min Scan# 752
Delta R.T. -0.028 min
Lab File: 03242326.D
Acq: 24 Mar 2023 21:37

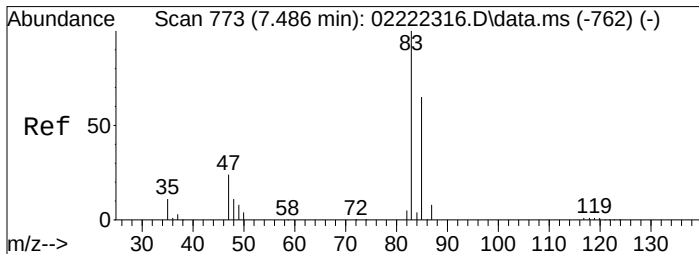
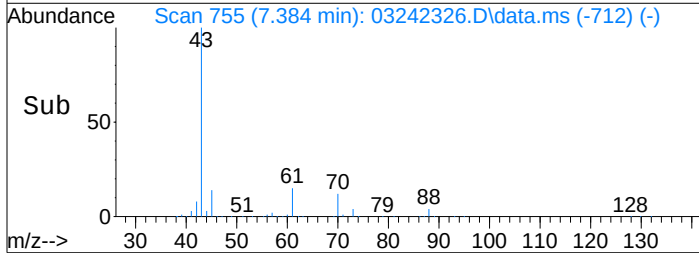
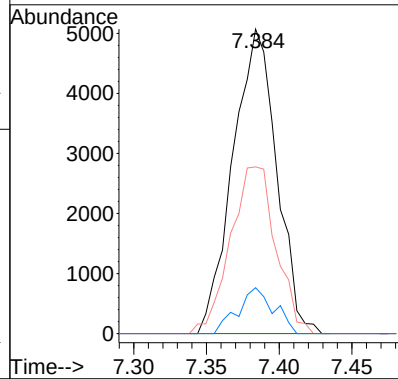
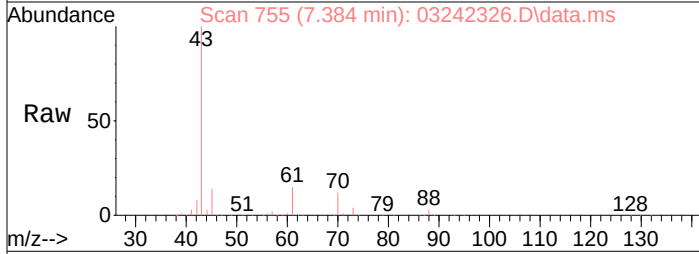
Tgt Ion: 61 Resp: 127436
Ion Ratio Lower Upper
61 100
70 79.6 65.6 105.6





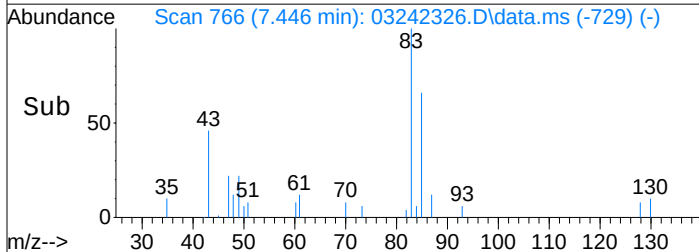
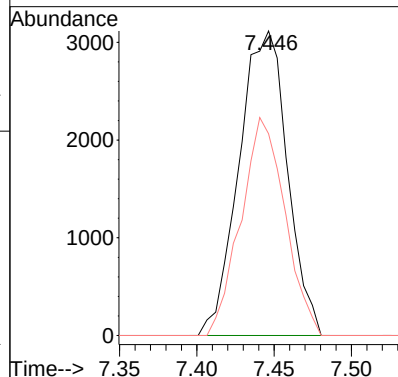
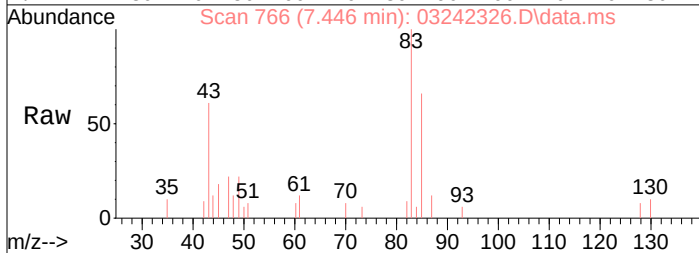
#31
n-Hexane
Concen: 0.33 ng
RT: 7.38 min Scan# 755
Delta R.T. -0.005 min
Lab File: 03242326.D
Acq: 24 Mar 2023 21:37

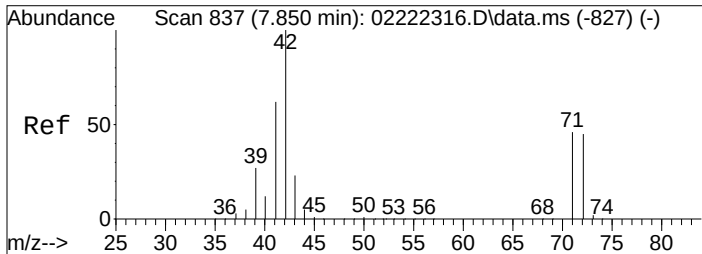
Tgt Ion: 57 Resp: 10607
Ion Ratio Lower Upper
57 100
56 57.1 44.0 66.0
86 12.4 11.5 17.3



#32
Chloroform
Concen: 0.18 ng
RT: 7.45 min Scan# 766
Delta R.T. -0.040 min
Lab File: 03242326.D
Acq: 24 Mar 2023 21:37

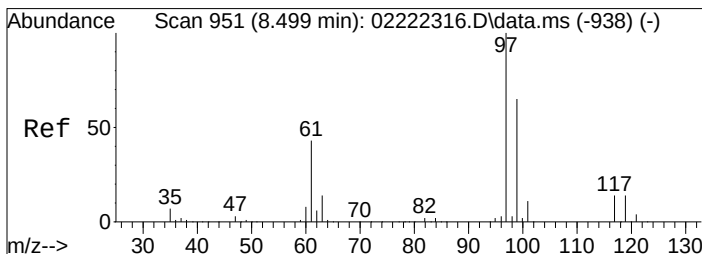
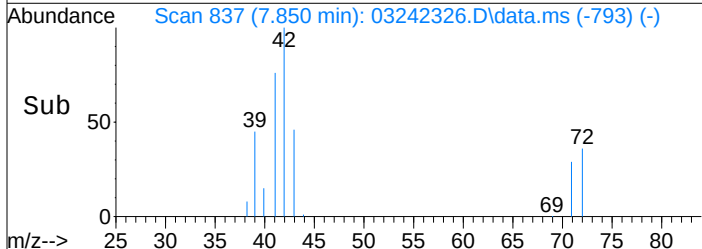
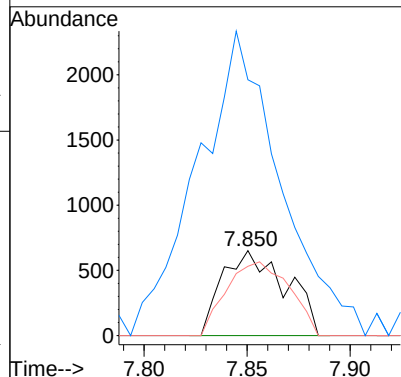
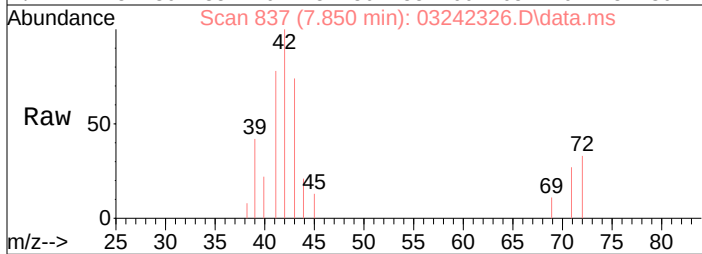
Tgt Ion: 83 Resp: 6797
Ion Ratio Lower Upper
83 100
85 65.4 45.0 85.0





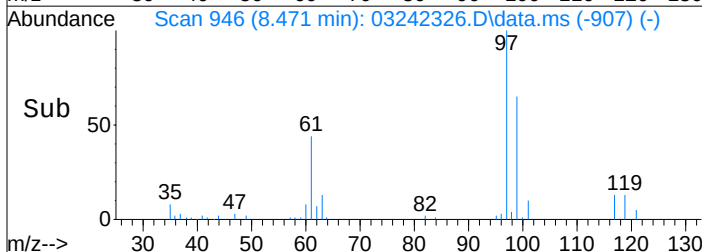
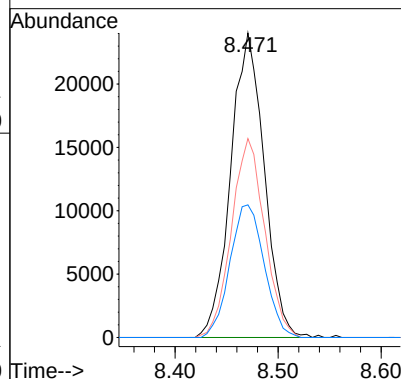
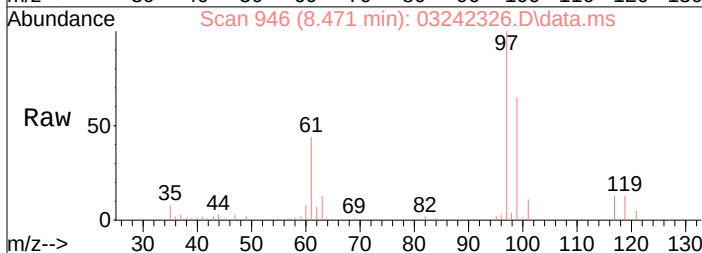
#34
 Tetrahydrofuran (THF)
 Concen: 0.11 ng
 RT: 7.85 min Scan# 837
 Delta R.T. 0.000 min
 Lab File: 03242326.D
 Acq: 24 Mar 2023 21:37

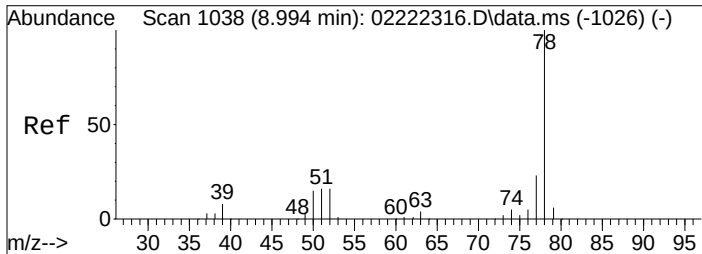
Tgt Ion:	72	Resp:	1393
Ion Ratio		Lower	Upper
72	100		
71	86.1	79.8	119.8
42	475.3	199.0	239.0#



#38
 1,1,1-Trichloroethane
 Concen: 1.58 ng
 RT: 8.47 min Scan# 946
 Delta R.T. -0.028 min
 Lab File: 03242326.D
 Acq: 24 Mar 2023 21:37

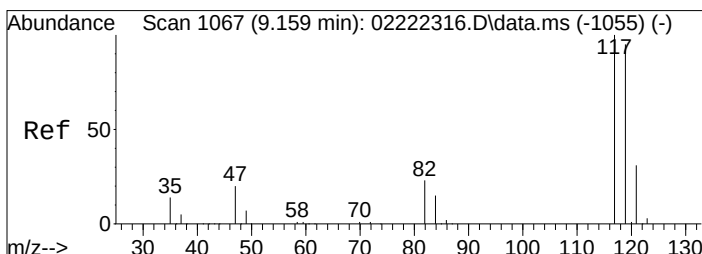
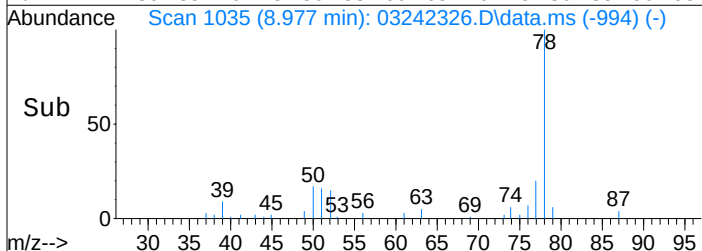
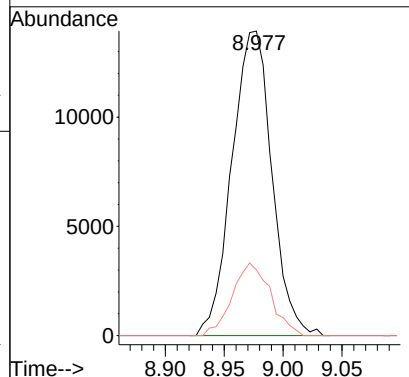
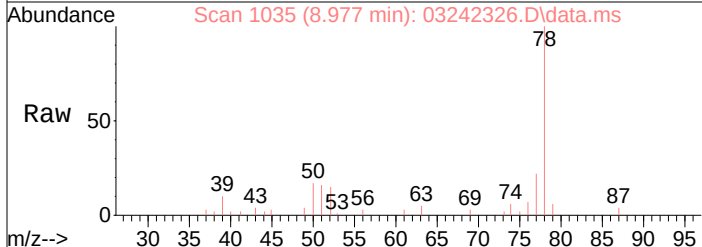
Tgt Ion:	97	Resp:	54394
Ion Ratio		Lower	Upper
97	100		
99	64.6	44.9	84.9
61	44.5	23.5	63.5





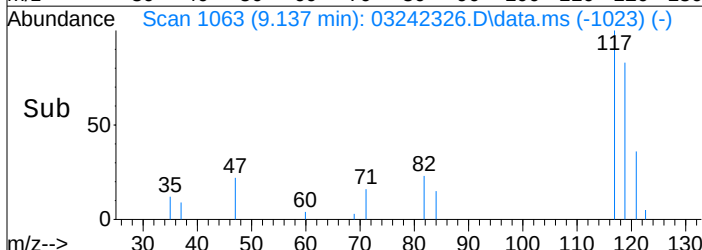
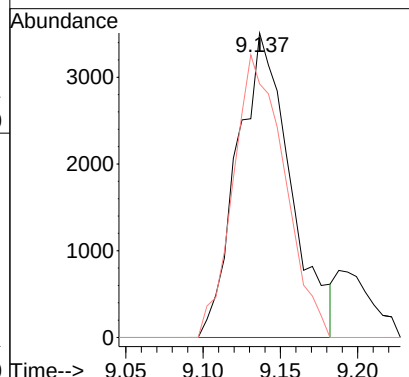
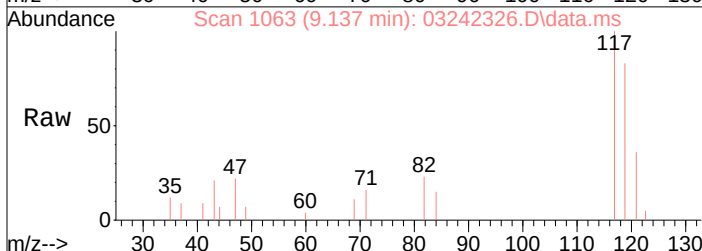
#41
Benzene
Concen: 0.41 ng
RT: 8.98 min Scan# 1035
Delta R.T. -0.017 min
Lab File: 03242326.D
Acq: 24 Mar 2023 21:37

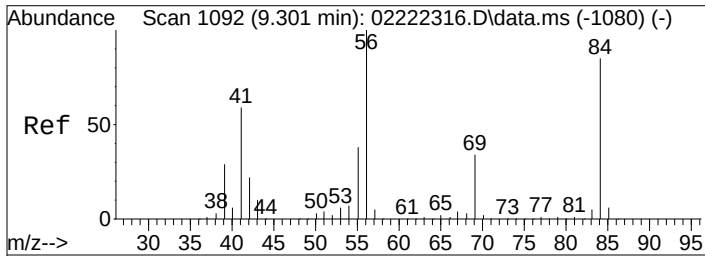
Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.8	3.7	43.7



#42
Carbon Tetrachloride
Concen: 0.28 ng
RT: 9.14 min Scan# 1063
Delta R.T. -0.023 min
Lab File: 03242326.D
Acq: 24 Mar 2023 21:37

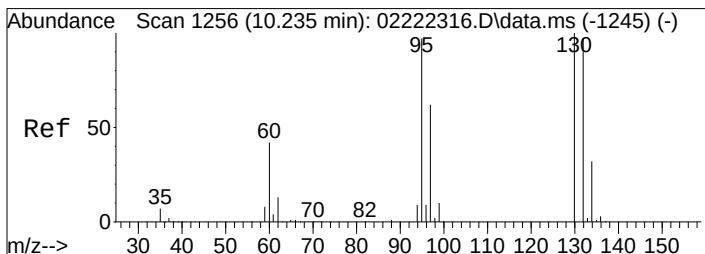
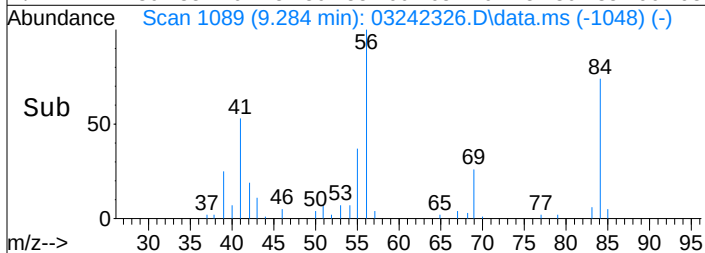
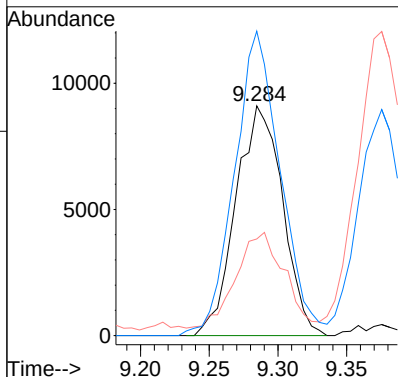
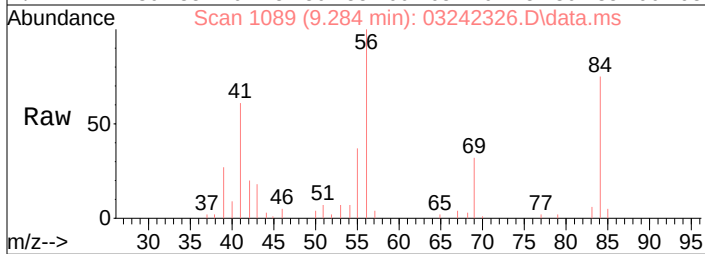
Tgt Ion	Ratio	Lower	Upper
117	100		
119	89.3	75.7	115.7





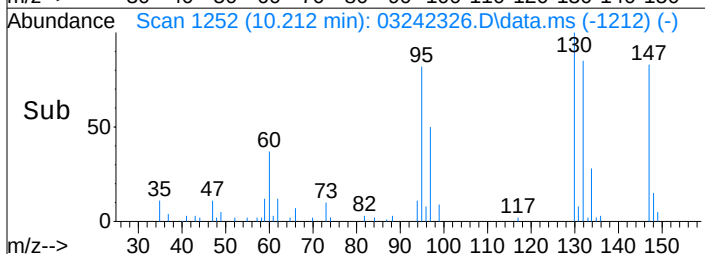
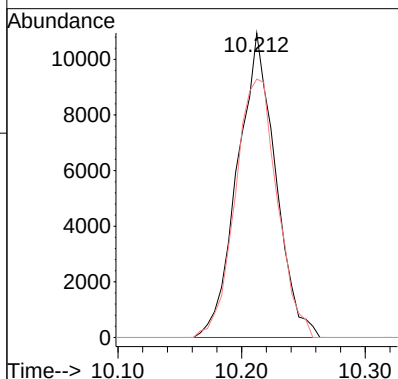
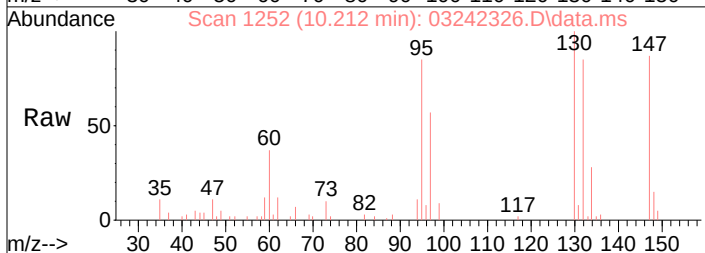
#43
Cyclohexane
Concen: 0.73 ng
RT: 9.28 min Scan# 1089
Delta R.T. -0.017 min
Lab File: 03242326.D
Acq: 24 Mar 2023 21:37

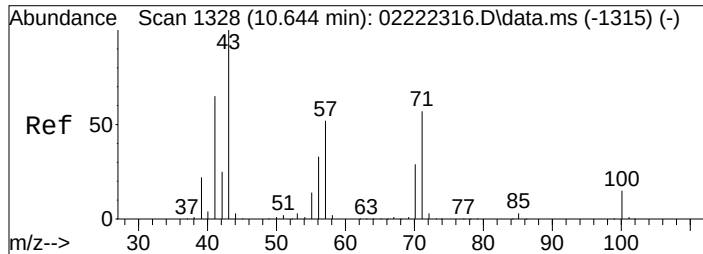
Tgt Ion:	84	Resp:	21591
Ion Ratio		Lower	Upper
84	100		
69	43.3	20.0	60.0
56	129.9	98.5	138.5



#47
Trichloroethene
Concen: 0.99 ng
RT: 10.21 min Scan# 1252
Delta R.T. -0.023 min
Lab File: 03242326.D
Acq: 24 Mar 2023 21:37

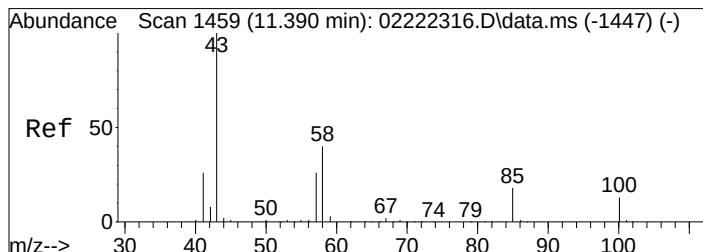
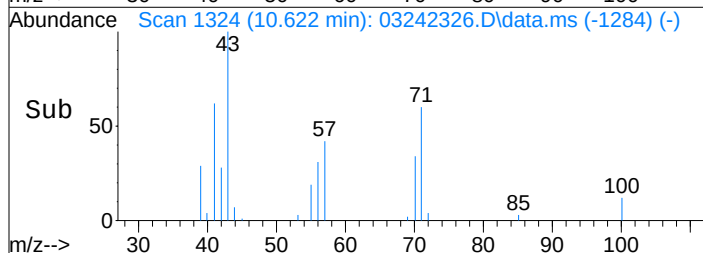
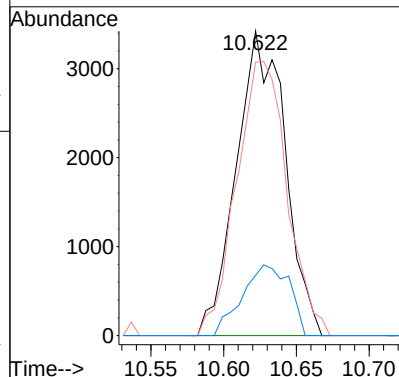
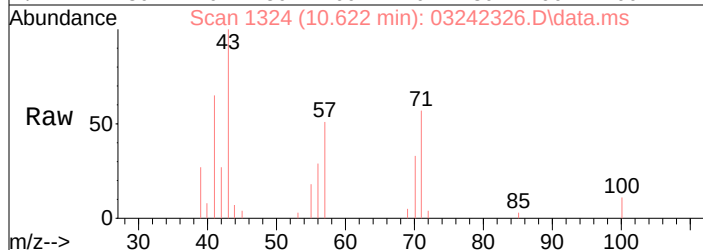
Tgt Ion:	130	Resp:	23371
Ion Ratio		Lower	Upper
130	100		
132	94.0	76.3	116.3





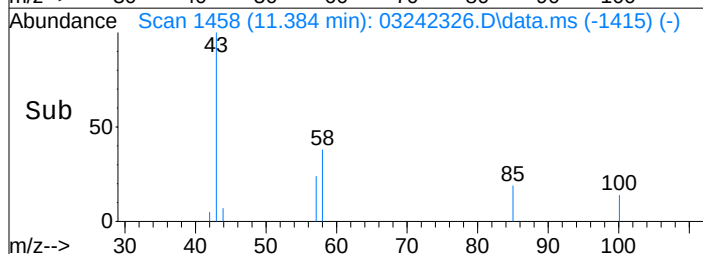
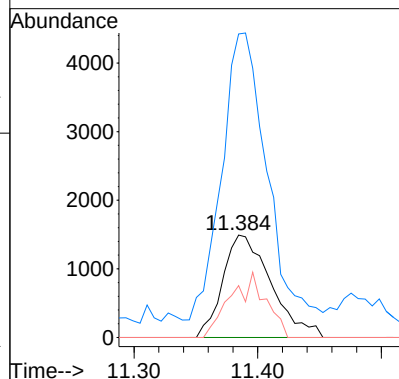
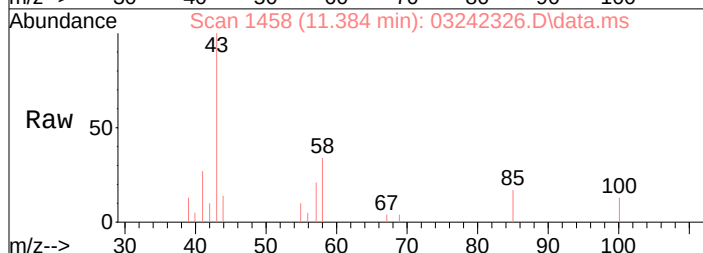
#51
n-Heptane
Concen: 0.41 ng
RT: 10.62 min Scan# 1324
Delta R.T. -0.023 min
Lab File: 03242326.D
Acq: 24 Mar 2023 21:37

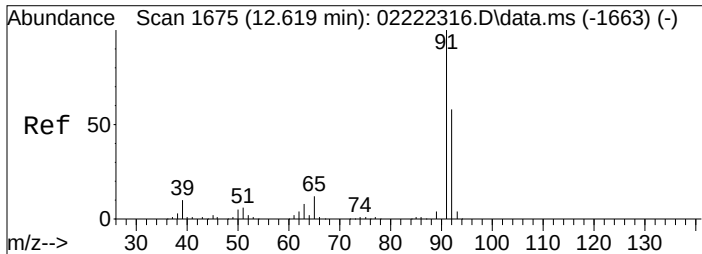
Tgt Ion: 71 Resp: 7970
Ion Ratio Lower Upper
71 100
57 93.3 71.7 111.7
100 22.5 5.8 45.8



#53
4-Methyl-2-pentanone
Concen: 0.23 ng
RT: 11.38 min Scan# 1458
Delta R.T. -0.005 min
Lab File: 03242326.D
Acq: 24 Mar 2023 21:37

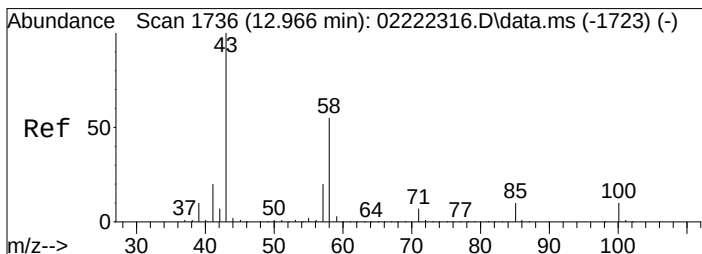
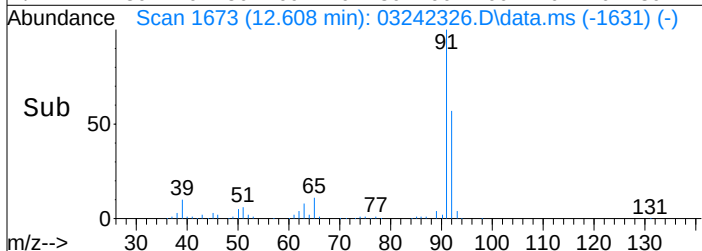
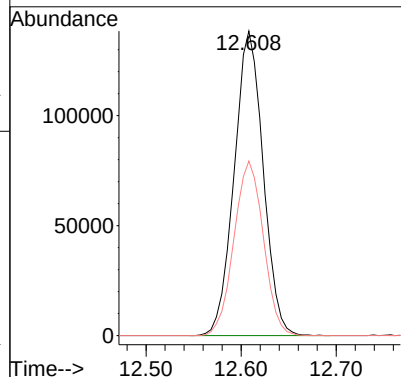
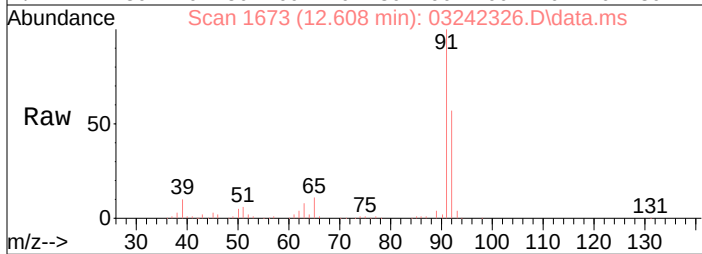
Tgt Ion: 58 Resp: 4054
Ion Ratio Lower Upper
58 100
85 24.0 38.6 58.0#
43 301.9 202.2 303.2





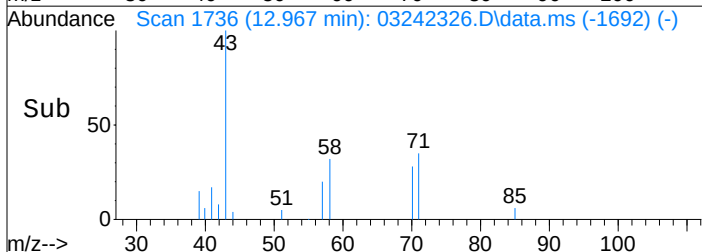
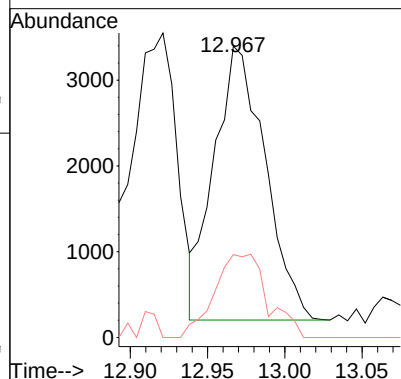
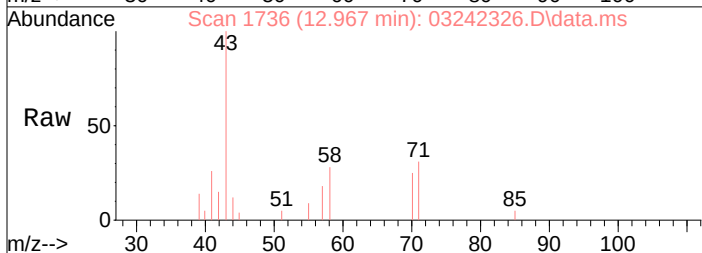
#58
Toluene
Concen: 3.06 ng
RT: 12.61 min Scan# 1673
Delta R.T. -0.011 min
Lab File: 03242326.D
Acq: 24 Mar 2023 21:37

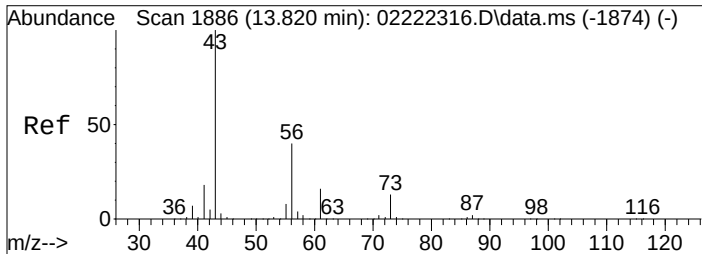
Tgt Ion: 91 Resp: 292776
Ion Ratio Lower Upper
91 100
92 58.2 38.0 78.0



#59
2-Hexanone
Concen: 0.16 ng
RT: 12.97 min Scan# 1736
Delta R.T. 0.000 min
Lab File: 03242326.D
Acq: 24 Mar 2023 21:37

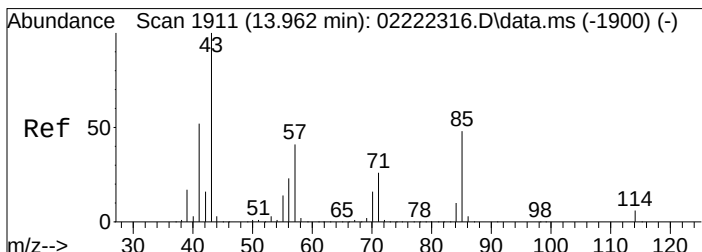
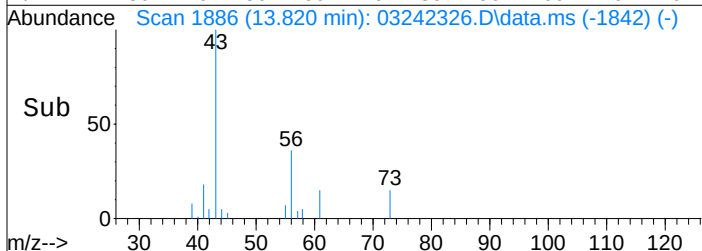
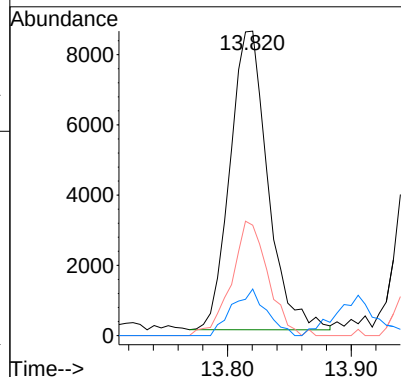
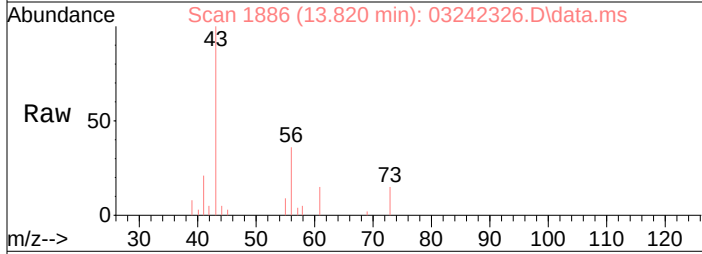
Tgt Ion: 43 Resp: 7361
Ion Ratio Lower Upper
43 100
58 31.5 34.5 74.5#





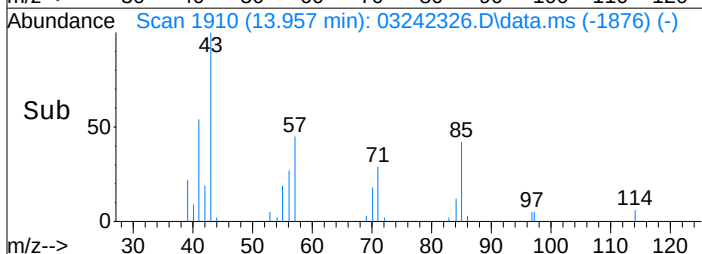
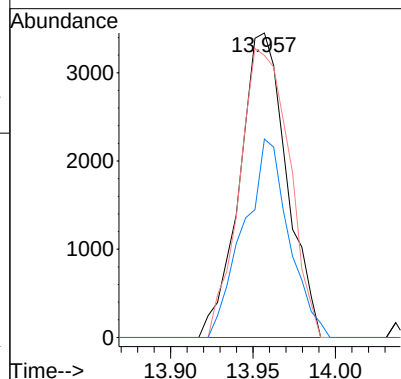
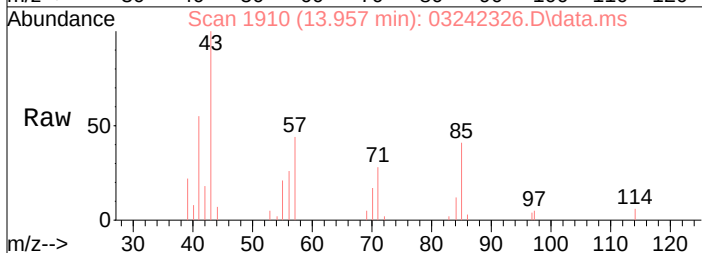
#62
 n-Butyl Acetate
 Concen: 0.34 ng
 RT: 13.82 min Scan# 1886
 Delta R.T. 0.000 min
 Lab File: 03242326.D
 Acq: 24 Mar 2023 21:37

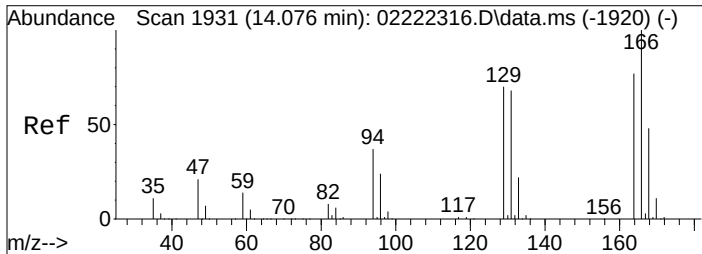
Tgt Ion:	43	Resp:	18084
Ion Ratio		Lower	Upper
43	100		
56	37.0	20.0	60.0
73	14.1	0.0	33.2



#63
 n-Octane
 Concen: 0.37 ng
 RT: 13.96 min Scan# 1910
 Delta R.T. -0.005 min
 Lab File: 03242326.D
 Acq: 24 Mar 2023 21:37

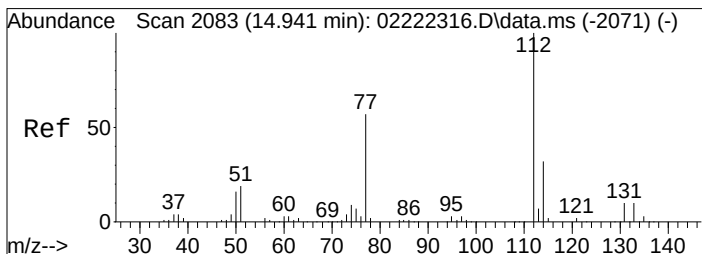
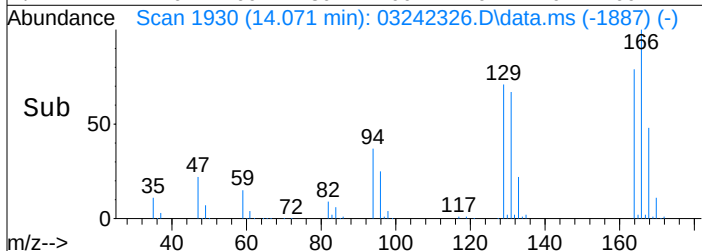
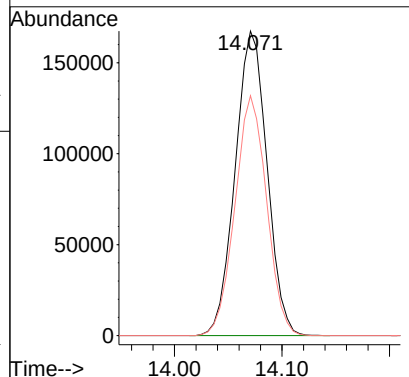
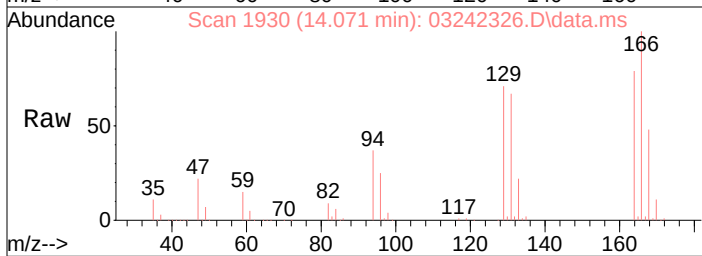
Tgt Ion:	57	Resp:	6877
Ion Ratio		Lower	Upper
57	100		
85	99.7	94.1	141.1
71	62.5	52.6	79.0





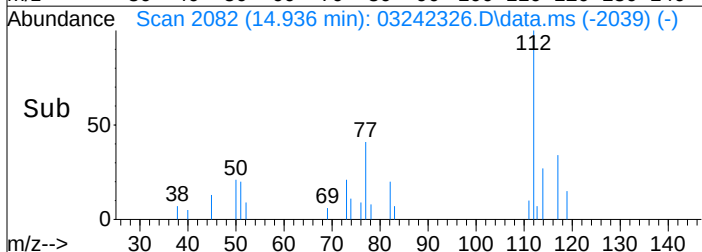
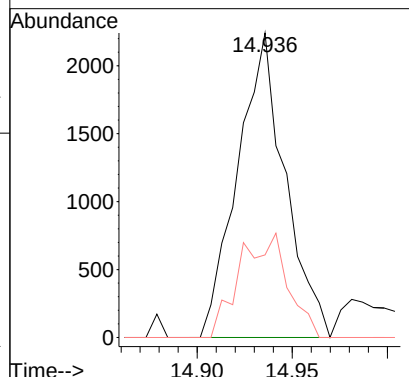
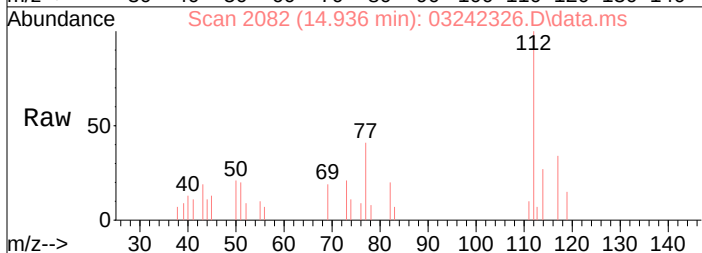
#64
Tetrachloroethene
Concen: 11.88 ng
RT: 14.07 min Scan# 1930
Delta R.T. -0.005 min
Lab File: 03242326.D
Acq: 24 Mar 2023 21:37

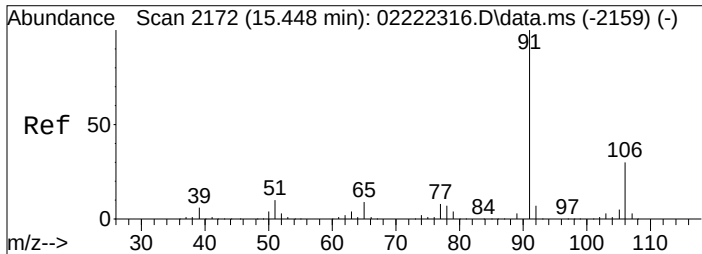
Tgt Ion:166 Resp: 345617
Ion Ratio Lower Upper
166 100
164 78.3 57.3 97.3



#65
Chlorobenzene
Concen: 0.06 ng
RT: 14.94 min Scan# 2082
Delta R.T. -0.005 min
Lab File: 03242326.D
Acq: 24 Mar 2023 21:37

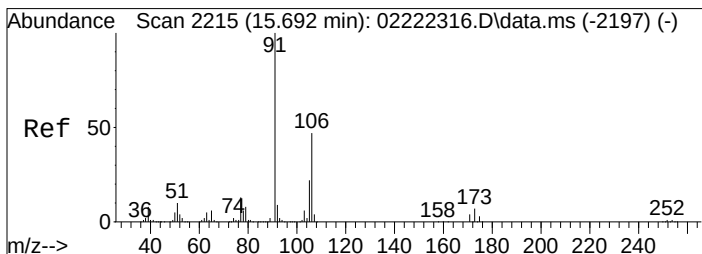
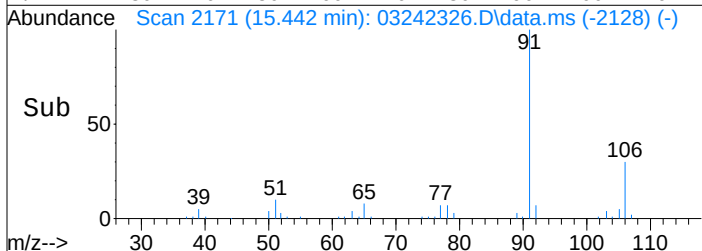
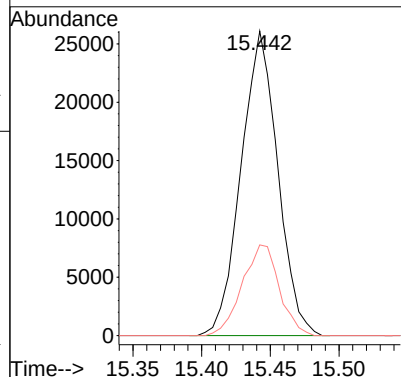
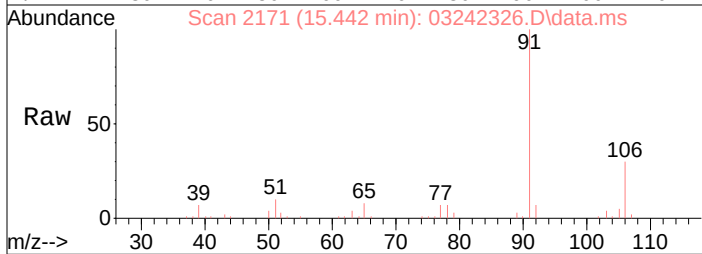
Tgt Ion:112 Resp: 3891
Ion Ratio Lower Upper
112 100
114 34.7 12.1 52.1





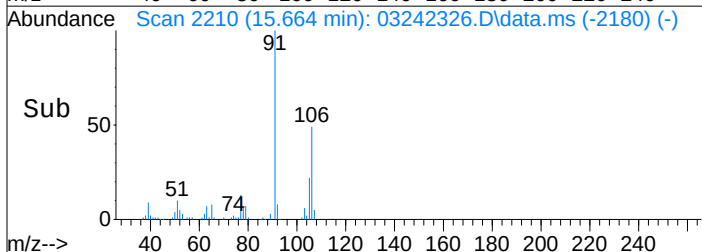
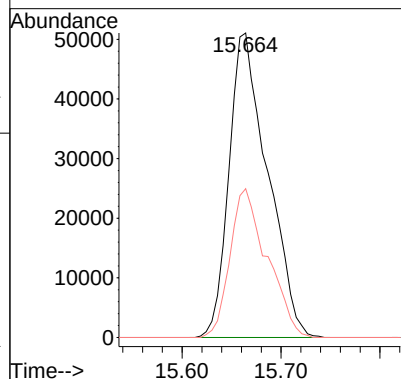
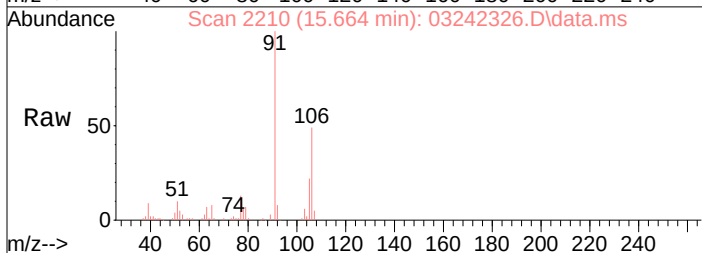
#66
Ethylbenzene
Concen: 0.43 ng
RT: 15.44 min Scan# 2171
Delta R.T. -0.005 min
Lab File: 03242326.D
Acq: 24 Mar 2023 21:37

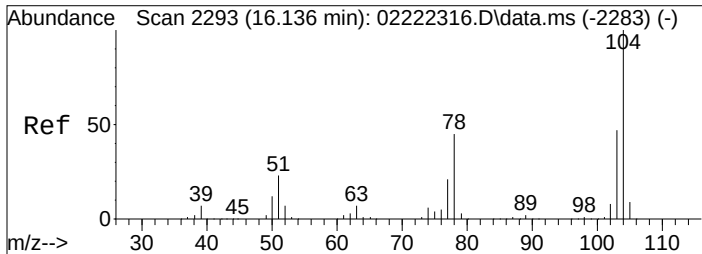
Tgt Ion	91	Resp	48494
Ion Ratio	100	Lower	Upper
106	30.1	10.4	50.4



#67
m- & p-Xylenes
Concen: 1.51 ng
RT: 15.66 min Scan# 2210
Delta R.T. -0.028 min
Lab File: 03242326.D
Acq: 24 Mar 2023 21:37

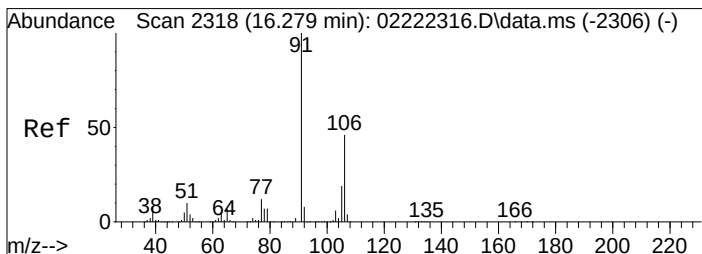
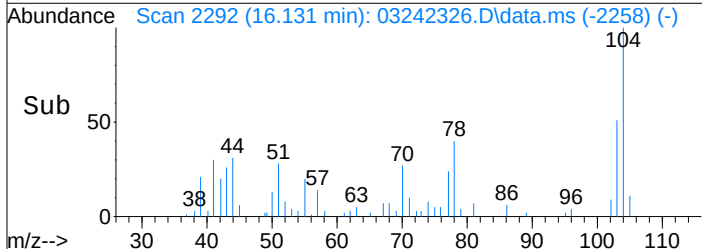
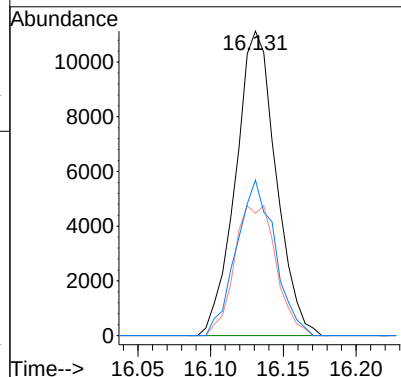
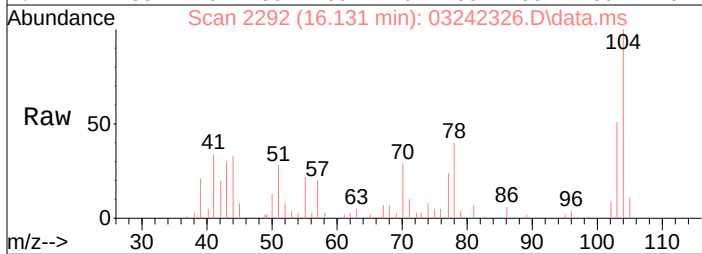
Tgt Ion	91	Resp	138466
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
106	47.0	26.2	66.2





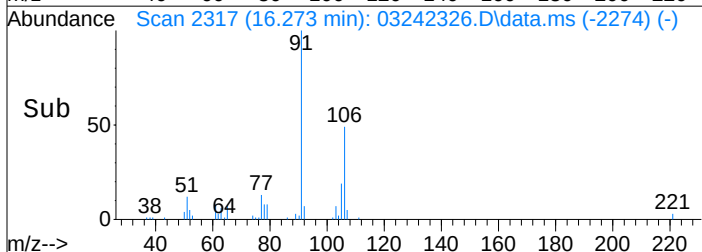
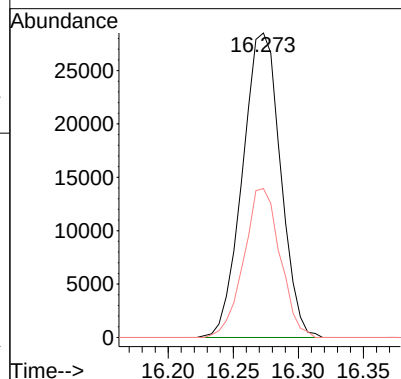
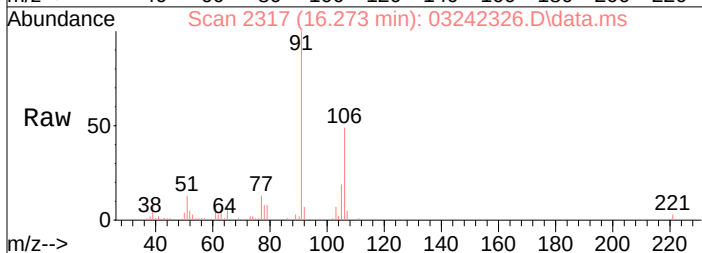
#69
Styrene
Concen: 0.34 ng
RT: 16.13 min Scan# 2292
Delta R.T. -0.005 min
Lab File: 03242326.D
Acq: 24 Mar 2023 21:37

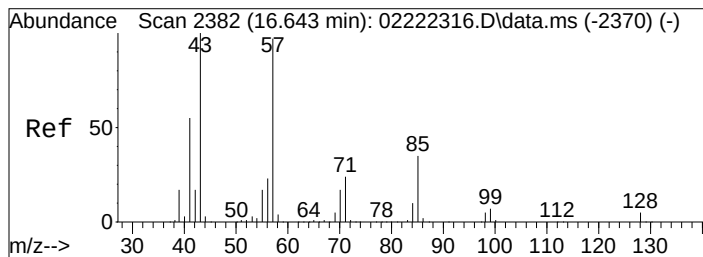
Tgt Ion: 104	Resp: 21461
Ion Ratio	Lower Upper
104 100	
78 44.2	24.7 64.7
103 48.9	27.8 67.8



#70
o-Xylene
Concen: 0.66 ng
RT: 16.27 min Scan# 2317
Delta R.T. -0.005 min
Lab File: 03242326.D
Acq: 24 Mar 2023 21:37

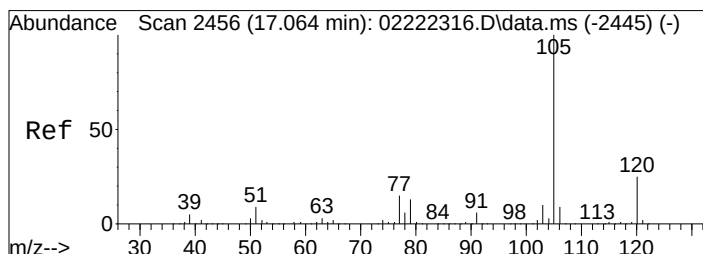
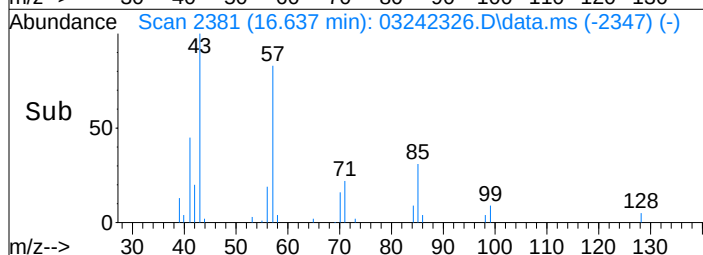
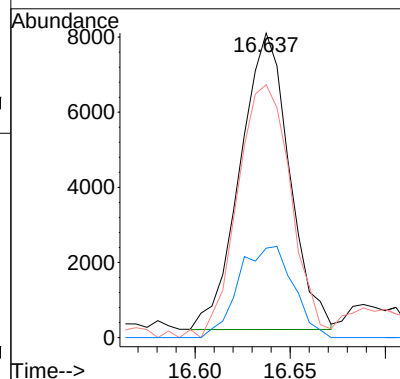
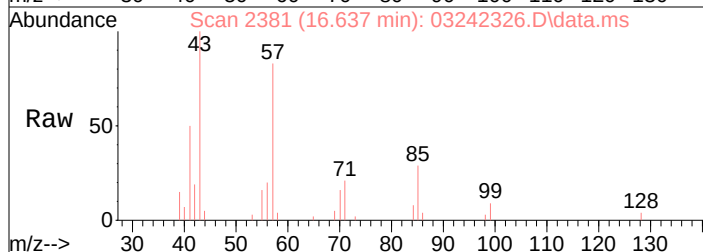
Tgt Ion: 91	Resp: 57927
Ion Ratio	Lower Upper
91 100	
106 46.8	25.4 65.4





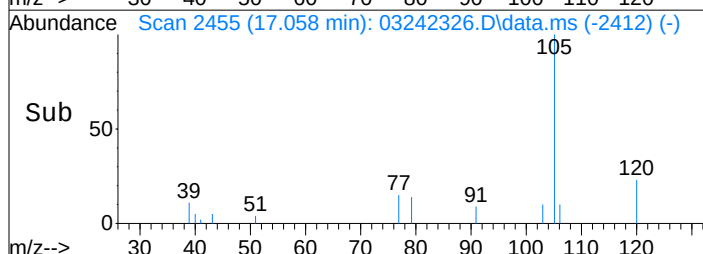
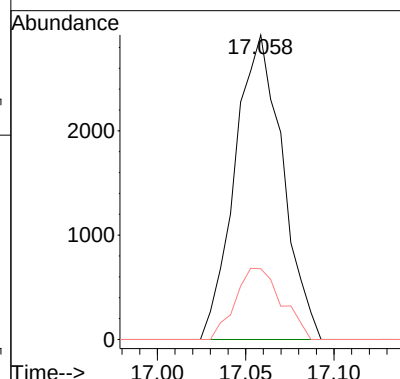
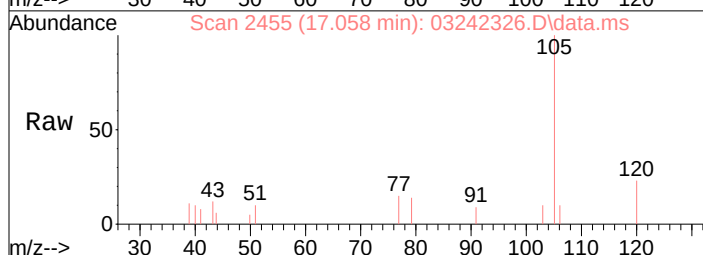
#71
n-Nonane
Concen: 0.33 ng
RT: 16.64 min Scan# 2381
Delta R.T. -0.005 min
Lab File: 03242326.D
Acq: 24 Mar 2023 21:37

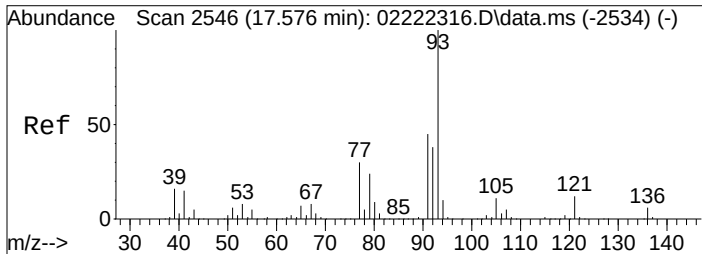
Tgt Ion: 43 Resp: 14210
Ion Ratio Lower Upper
43 100
57 92.6 74.2 114.2
85 34.1 14.2 54.2



#74
Cumene
Concen: 0.05 ng
RT: 17.06 min Scan# 2455
Delta R.T. -0.005 min
Lab File: 03242326.D
Acq: 24 Mar 2023 21:37

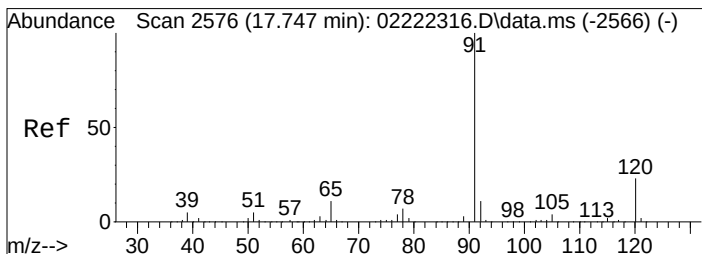
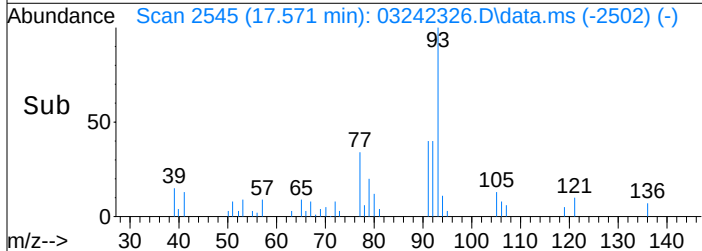
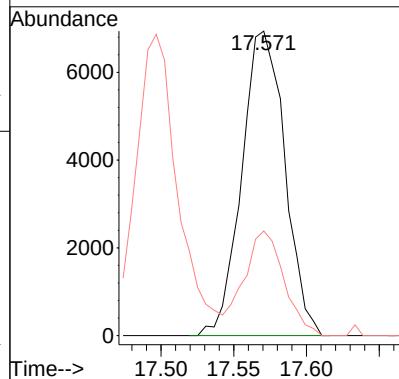
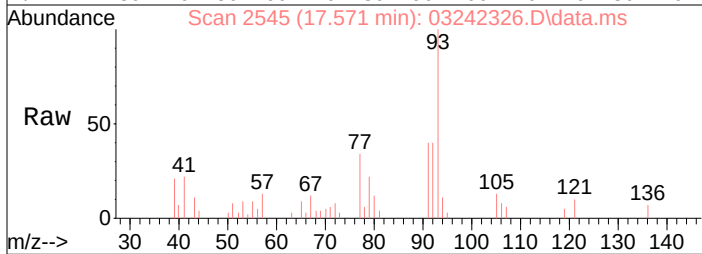
Tgt Ion: 105 Resp: 5450
Ion Ratio Lower Upper
105 100
120 22.8 5.2 45.2





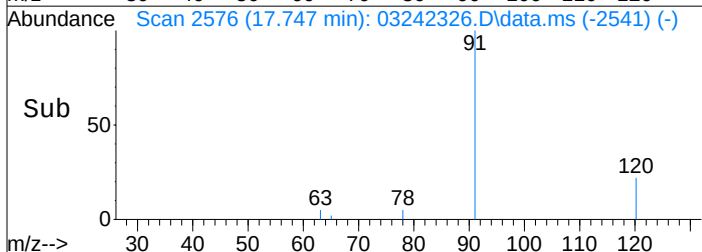
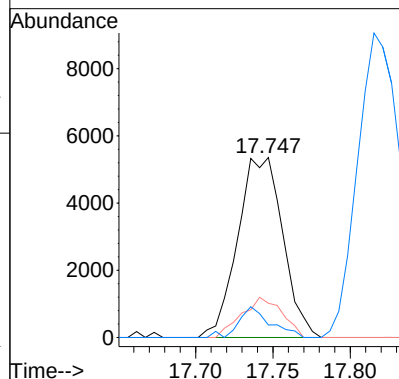
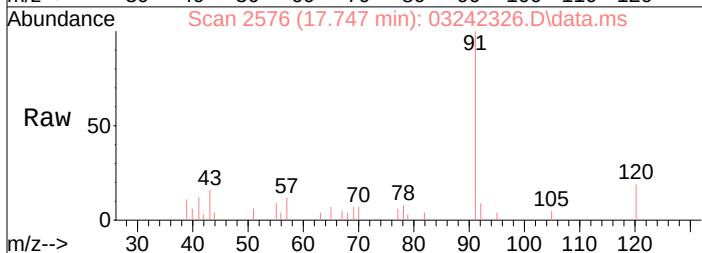
#75
 alpha-Pinene
 Concen: 0.29 ng
 RT: 17.57 min Scan# 2545
 Delta R.T. -0.005 min
 Lab File: 03242326.D
 Acq: 24 Mar 2023 21:37

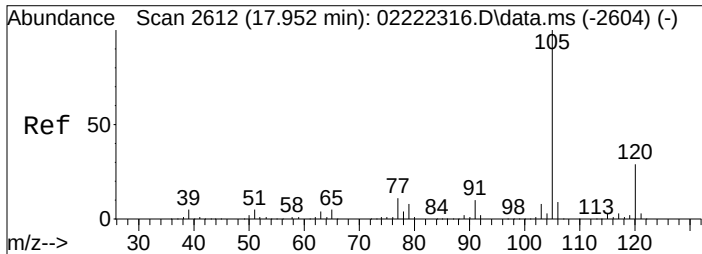
Tgt Ion	Ratio	Resp	Lower	Upper
93	100	14290		
77	31.9	11.1		51.1



#76
 n-Propylbenzene
 Concen: 0.09 ng
 RT: 17.75 min Scan# 2576
 Delta R.T. 0.000 min
 Lab File: 03242326.D
 Acq: 24 Mar 2023 21:37

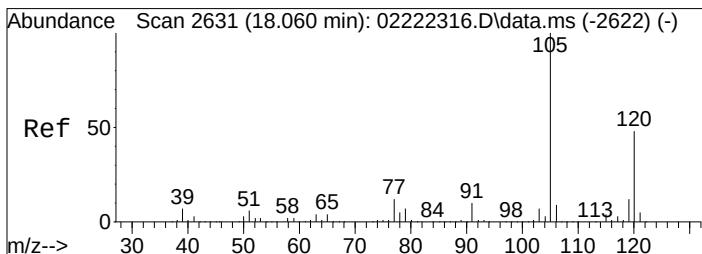
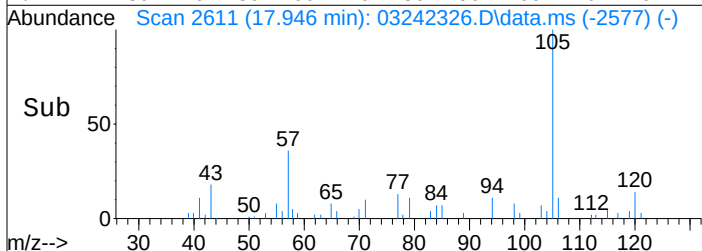
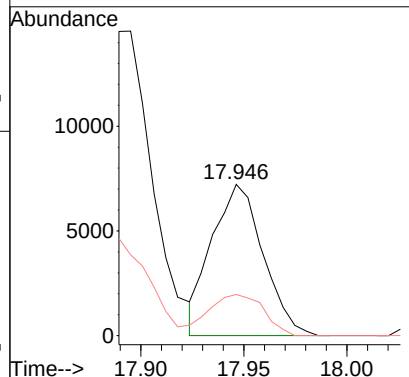
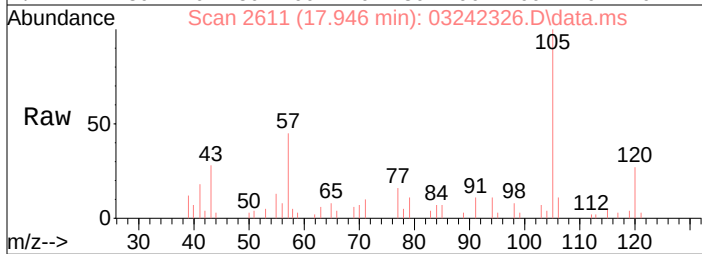
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	10885		
120	20.0	2.7		42.7
65	12.0	0.0		30.7





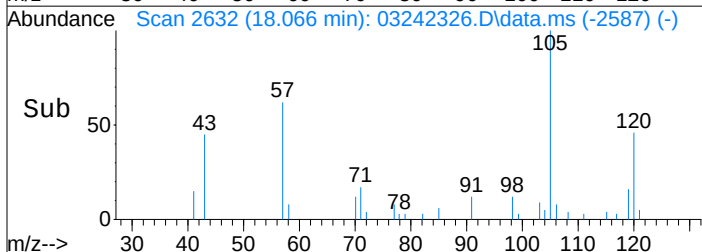
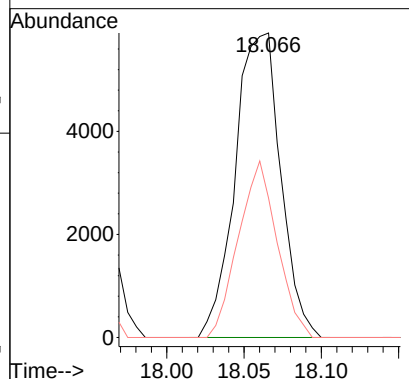
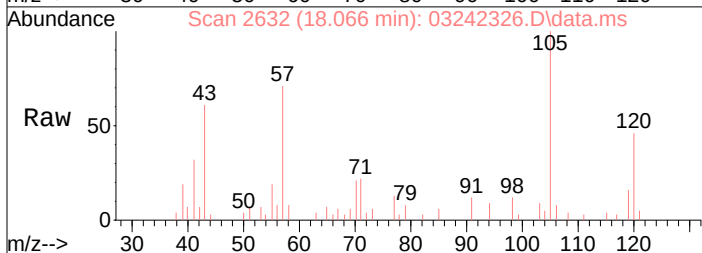
#78
 4-Ethyltoluene
 Concen: 0.12 ng
 RT: 17.95 min Scan# 2611
 Delta R.T. -0.005 min
 Lab File: 03242326.D
 Acq: 24 Mar 2023 21:37

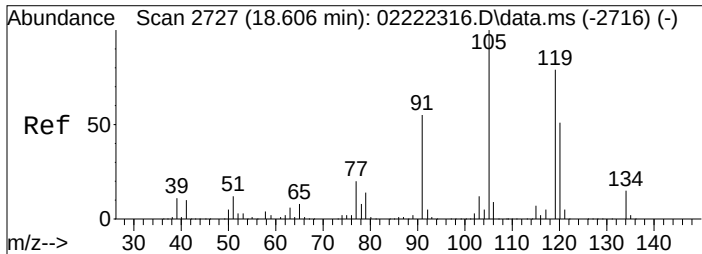
Tgt Ion:	105	Resp:	12513
Ion Ratio	Lower	Upper	
105	100		
120	29.7	9.1	49.1



#79
 1,3,5-Trimethylbenzene
 Concen: 0.13 ng
 RT: 18.07 min Scan# 2632
 Delta R.T. 0.006 min
 Lab File: 03242326.D
 Acq: 24 Mar 2023 21:37

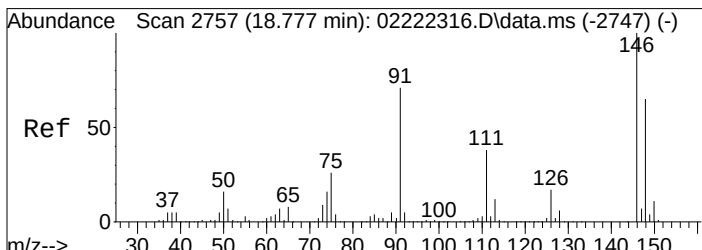
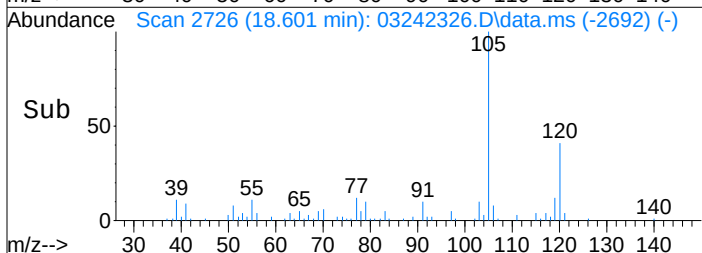
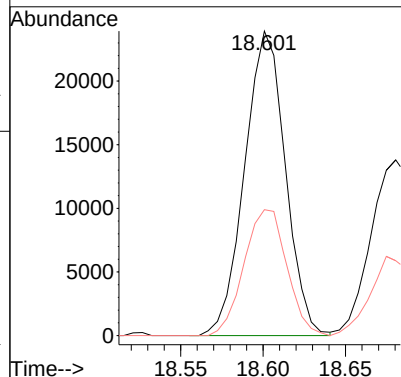
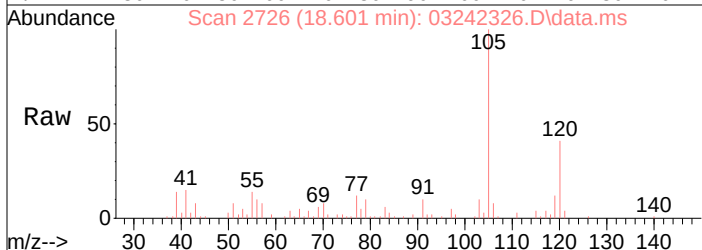
Tgt Ion:	105	Resp:	12102
Ion Ratio	Lower	Upper	
105	100		
120	49.4	28.4	68.4





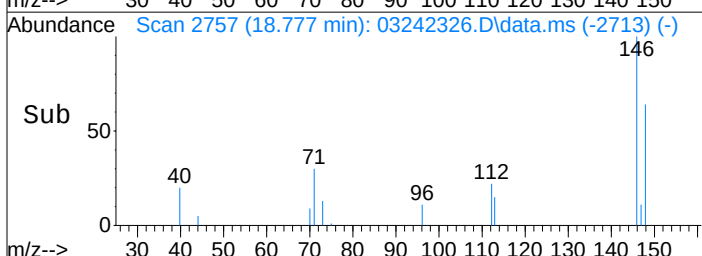
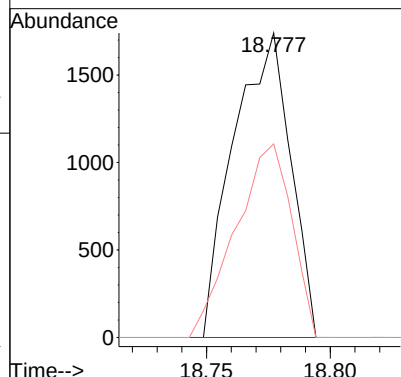
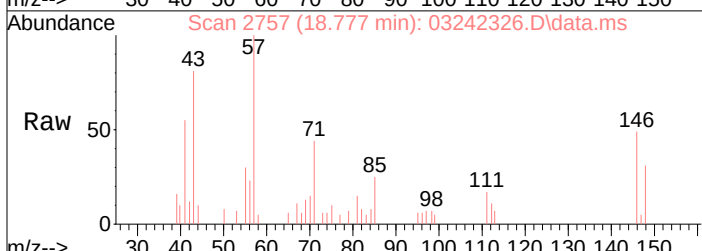
#82
 1,2,4-Trimethylbenzene
 Concen: 0.46 ng
 RT: 18.60 min Scan# 2726
 Delta R.T. -0.005 min
 Lab File: 03242326.D
 Acq: 24 Mar 2023 21:37

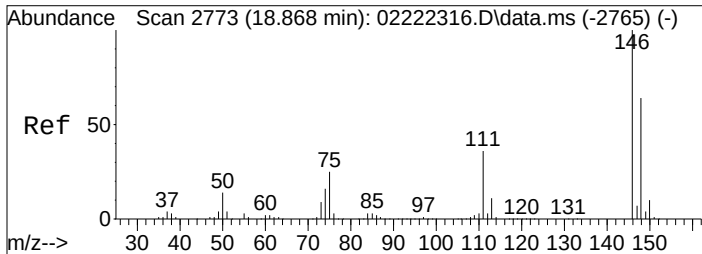
Tgt Ion:105	Resp:	41146
Ion Ratio	Lower	Upper
105	100	
120	43.3	32.8 72.8



#85
 1,3-Dichlorobenzene
 Concen: 0.05 ng
 RT: 18.78 min Scan# 2757
 Delta R.T. 0.000 min
 Lab File: 03242326.D
 Acq: 24 Mar 2023 21:37

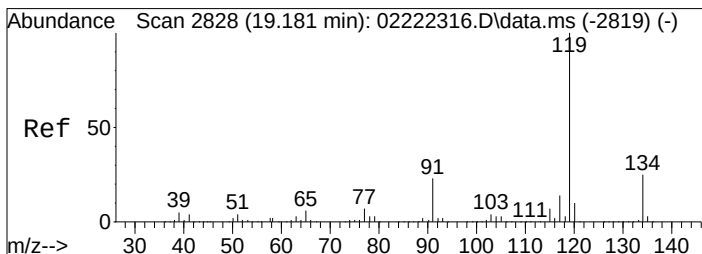
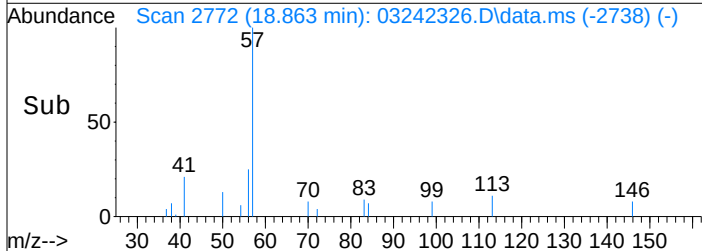
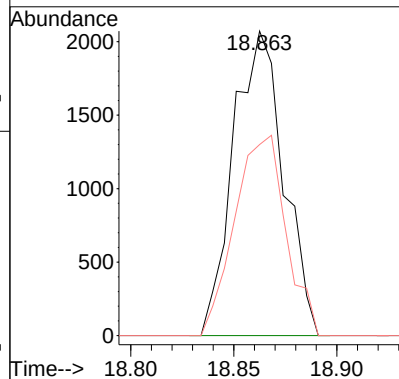
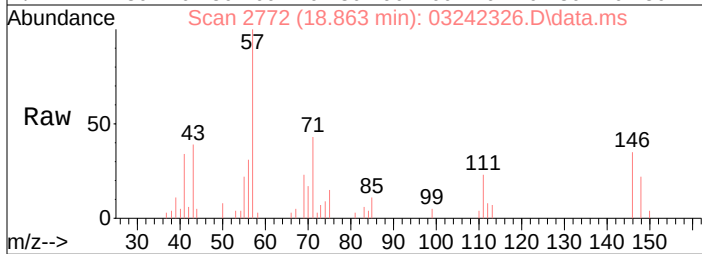
Tgt Ion:146	Resp:	2784
Ion Ratio	Lower	Upper
146	100	
148	62.8	44.4 84.4





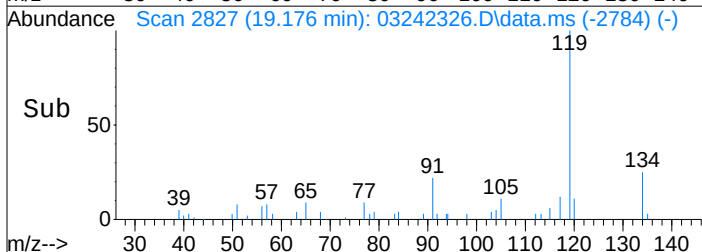
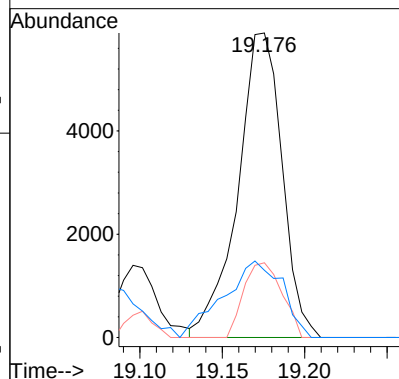
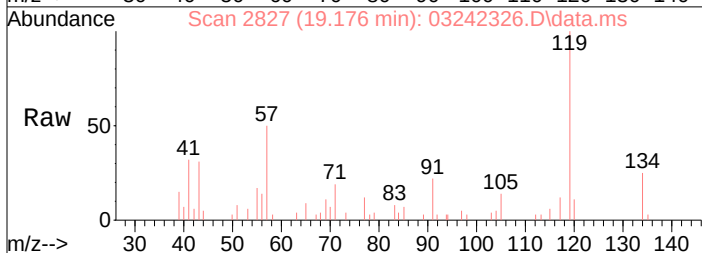
#86
 1,4-Dichlorobenzene
 Concen: 0.06 ng
 RT: 18.86 min Scan# 2772
 Delta R.T. -0.005 min
 Lab File: 03242326.D
 Acq: 24 Mar 2023 21:37

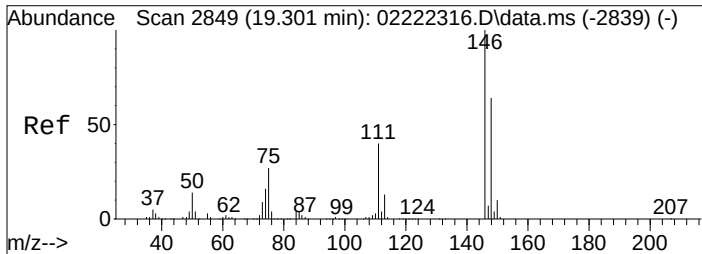
Tgt Ion	Ratio	Resp	Lower	Upper
146	100	3509		
148	66.9	44.7	84.7	



#88
 4-Isopropyltoluene (p-Cymene)
 Concen: 0.11 ng
 RT: 19.18 min Scan# 2827
 Delta R.T. -0.005 min
 Lab File: 03242326.D
 Acq: 24 Mar 2023 21:37

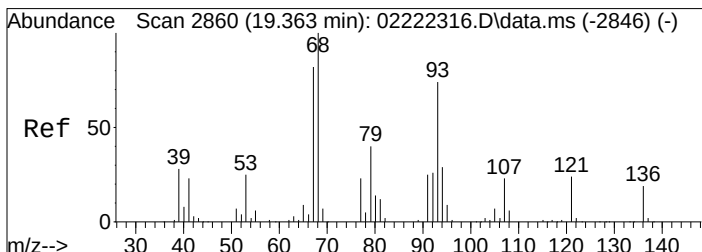
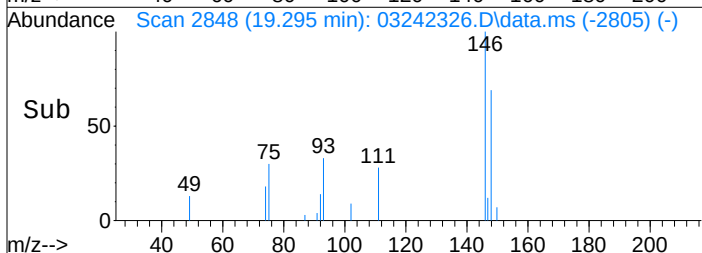
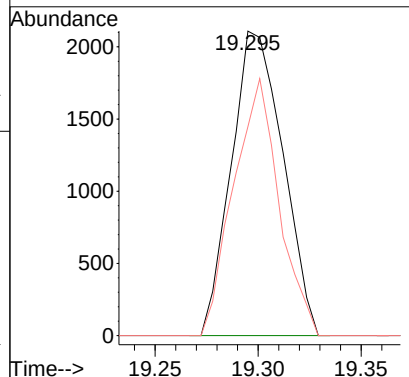
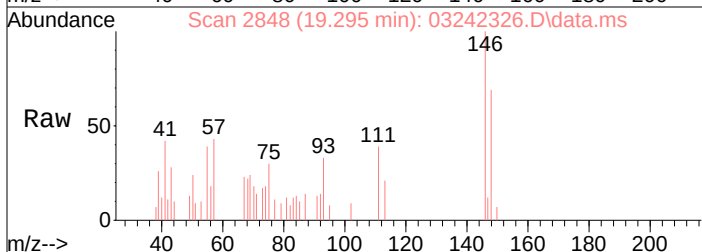
Tgt Ion	Ratio	Resp	Lower	Upper
119	100	11027		
134	21.2	5.2	45.2	
91	33.4	3.4	43.4	





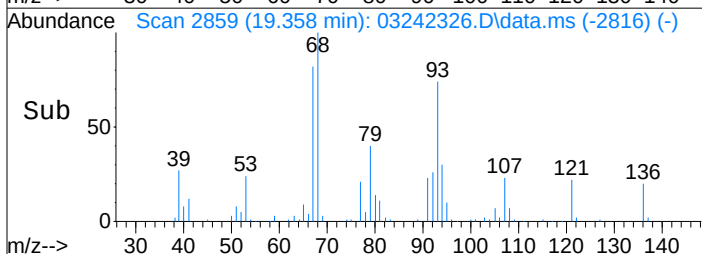
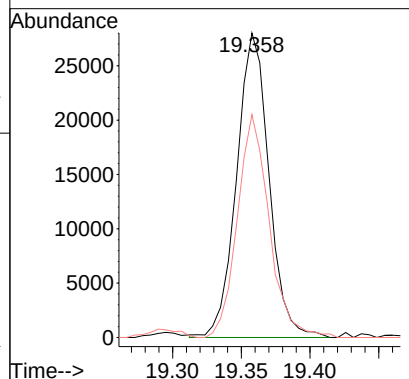
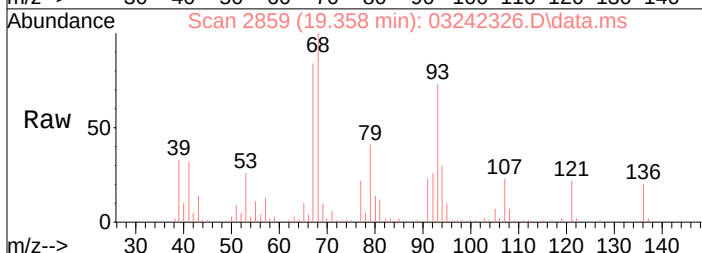
#90
 1,2-Dichlorobenzene
 Concen: 0.07 ng
 RT: 19.30 min Scan# 2848
 Delta R.T. -0.005 min
 Lab File: 03242326.D
 Acq: 24 Mar 2023 21:37

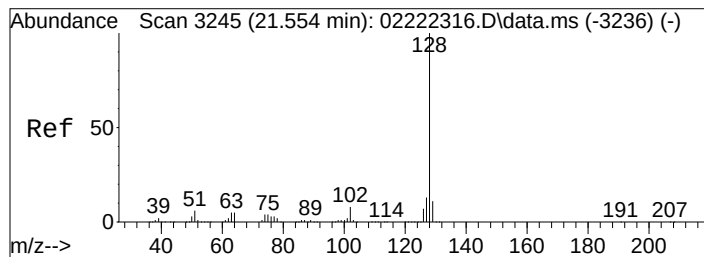
Tgt Ion: 146 Resp: 3677
 Ion Ratio Lower Upper
 146 100
 148 74.4 44.4 84.4



#91
 d-Limonene
 Concen: 1.52 ng
 RT: 19.36 min Scan# 2859
 Delta R.T. -0.005 min
 Lab File: 03242326.D
 Acq: 24 Mar 2023 21:37

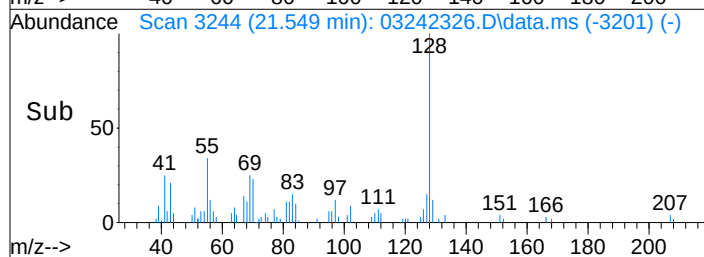
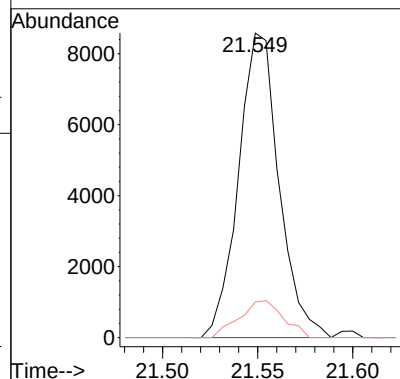
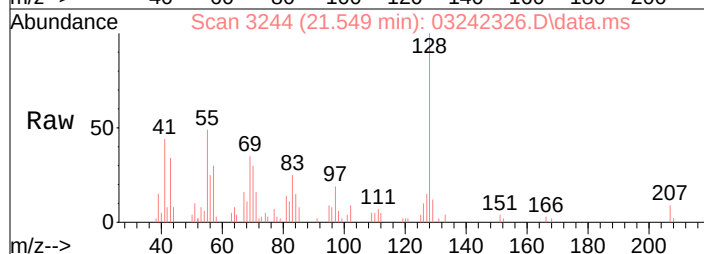
Tgt Ion: 68 Resp: 45971
 Ion Ratio Lower Upper
 68 100
 93 72.0 54.8 94.8





#95
 Naphthalene
 Concen: 0.13 ng
 RT: 21.55 min Scan# 3244
 Delta R.T. -0.005 min
 Lab File: 03242326.D
 Acq: 24 Mar 2023 21:37

Tgt Ion:128 Resp: 12715
 Ion Ratio Lower Upper
 128 100
 129 13.2 0.0 30.9



Data File : I:\MS13\DATA\2023_03\24\03242326.D
 Acq On : 24 Mar 2023 21:37
 Sample : P2301250-021 (1000mL)
 Misc : S35-01202301

Vial: 10
 Operator: TZ
 Inst : MS13

TZ 3/28/23

Quant Time: Mar 28 10:01:00 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.32	130	235115	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	9.38	114	1040846	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	14.87	54	195355	12.500	ng	0.00

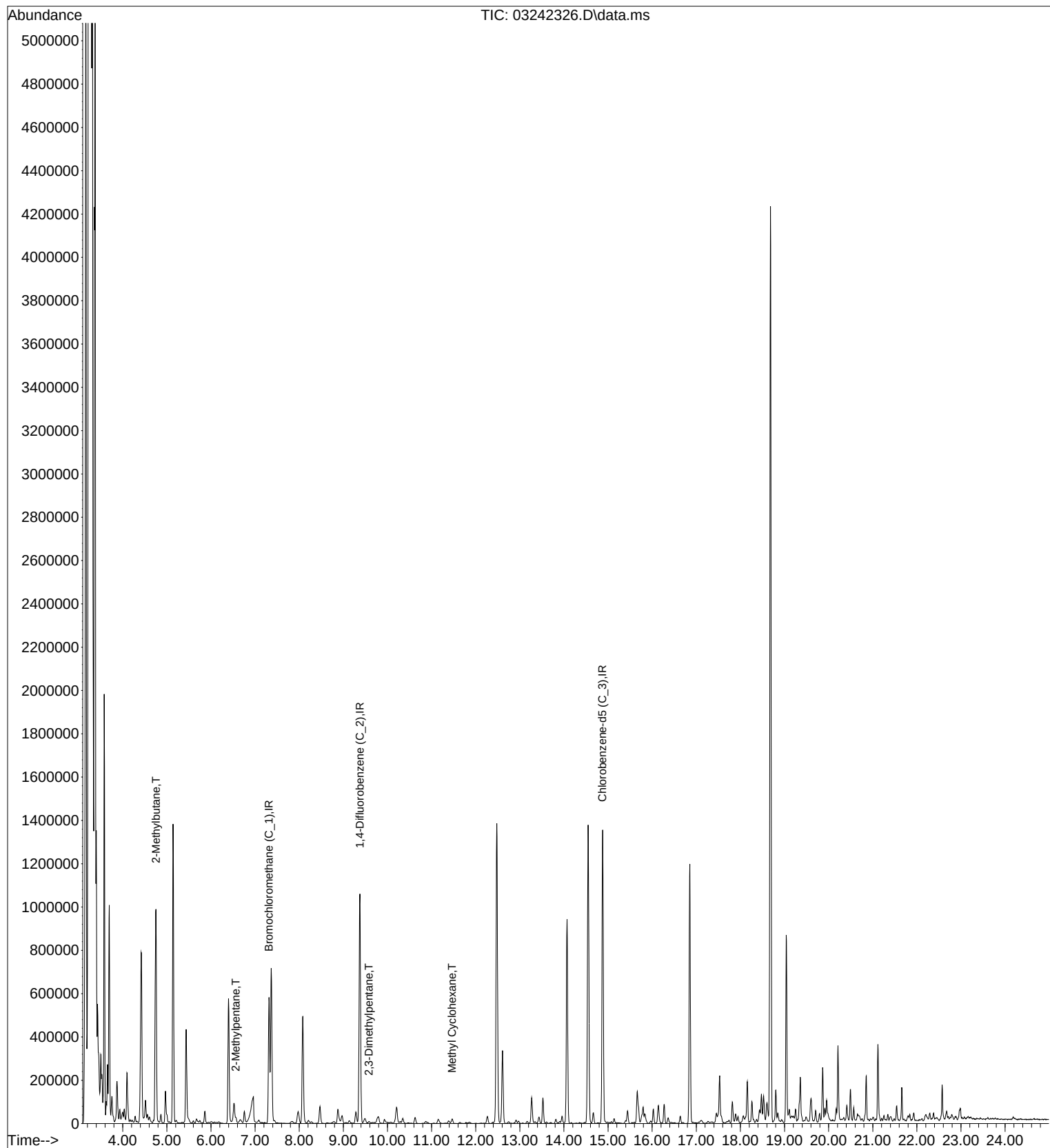
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	0.00	85	0	N.D.	d	
3) 1,1,1,2-Tetrafluoroeth...	0.00	83	0	N.D.	d	
4) 1,1-Difluoroethane	0.00	65	0	N.D.	d	
5) Chlorodifluoromethane ...	0.00	67	0	N.D.	d	
6) 1-Chloro-1,1-Difluoroe...	3.58	65	293	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	4.60	83	614	N.D.		
10) 2-Methylbutane	4.75	57	199287	11.589	ng	# 88
11) Methyl Acetate	0.00	43	0	N.D.	d	
12) 2-Methylpentane	6.56	71	4896	0.298	ng	# 1
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	9.14	84	1237	N.D.		
17) 2,3-Dimethylpentane	9.58	56	4596	0.150	ng	# 84
18) Dibromomethane	9.88	174	177	N.D.		
20) Methyl Cyclohexane	11.46	55	7818	0.240	ng	88
21) 1,3-Dichloropropane	12.62	76	1407	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	15.22	91	388	N.D.		
24) 1,2,3-Trichloropropane	0.00	75	0	N.D.	d	
25) Bromobenzene	17.05	77	817	N.D.		
26) 2-Chlorotoluene	17.66	91	111	N.D.		
27) 4-Chlorotoluene	0.00	91	0	N.D.	d	
28) Indane	19.39	117	4967	N.D.		
29) Indene	19.50	115	1208	N.D.		
30) 1,2,4,5-Tetramethylben...	20.64	119	3520	N.D.		
31) 1,2,3,4-Tetramethylben...	20.70	119	5268	N.D.		
32) 1,2,3,5-Tetramethylben...	21.14	119	4454	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242326.D
Acq On : 24 Mar 2023 21:37
Sample : P2301250-021 (1000mL)
Misc : S35-01202301

Vial: 10
Operator: TZ
Inst : MS13

Quant Time: Mar 28 10:01:00 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG33-2

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-022

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01484

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.23 Final Pressure (psig): 3.77

Container Dilution Factor: 1.61

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.6	0.85	0.14	0.53	0.17	0.028	
74-87-3	Chloromethane	ND	0.34	0.14	ND	0.16	0.067	
75-01-4	Vinyl Chloride	ND	0.18	0.092	ND	0.069	0.036	
74-83-9	Bromomethane	ND	0.34	0.12	ND	0.087	0.031	
75-00-3	Chloroethane	ND	0.34	0.11	ND	0.13	0.040	
67-64-1	Acetone	36	8.5	1.9	15	3.6	0.81	
75-69-4	Trichlorofluoromethane	1.1	0.84	0.13	0.20	0.15	0.023	
75-35-4	1,1-Dichloroethene	ND	0.18	0.12	ND	0.045	0.030	
75-09-2	Methylene Chloride	3.7	0.85	0.24	1.1	0.25	0.070	
76-13-1	Trichlorotrifluoroethane	0.51	0.87	0.12	0.067	0.11	0.016	J
75-15-0	Carbon Disulfide	ND	1.7	0.26	ND	0.55	0.083	
156-60-5	trans-1,2-Dichloroethene	ND	0.18	0.12	ND	0.045	0.030	
75-34-3	1,1-Dichloroethane	ND	0.18	0.13	ND	0.044	0.031	
1634-04-4	Methyl tert-Butyl Ether	ND	0.87	0.10	ND	0.24	0.028	
78-93-3	2-Butanone (MEK)	1.7	1.7	0.18	0.58	0.57	0.060	
156-59-2	cis-1,2-Dichloroethene	ND	0.18	0.12	ND	0.045	0.030	
67-66-3	Chloroform	0.72	0.18	0.11	0.15	0.036	0.023	
107-06-2	1,2-Dichloroethane	ND	0.18	0.095	ND	0.044	0.023	
71-55-6	1,1,1-Trichloroethane	2.6	0.18	0.11	0.47	0.032	0.019	
71-43-2	Benzene	0.34	0.18	0.12	0.11	0.055	0.039	
56-23-5	Carbon Tetrachloride	0.33	0.18	0.12	0.052	0.028	0.019	
110-82-7	Cyclohexane	ND	1.7	0.24	ND	0.49	0.070	
78-87-5	1,2-Dichloropropane	ND	0.18	0.11	ND	0.038	0.023	
75-27-4	Bromodichloromethane	ND	0.18	0.12	ND	0.026	0.019	
79-01-6	Trichloroethene	3.7	0.18	0.12	0.69	0.033	0.022	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG33-2

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-022

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01484

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.23 Final Pressure (psig): 3.77

Container Dilution Factor: 1.61

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.87	0.13	ND	0.19	0.029	
108-10-1	4-Methyl-2-pentanone	1.3	1.8	0.12	0.32	0.43	0.029	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.82	0.18	ND	0.18	0.039	
79-00-5	1,1,2-Trichloroethane	ND	0.18	0.087	ND	0.032	0.016	
108-88-3	Toluene	3.2	0.85	0.10	0.85	0.23	0.028	
591-78-6	2-Hexanone	0.40	1.8	0.11	0.098	0.43	0.026	J
124-48-1	Dibromochloromethane	ND	0.18	0.11	ND	0.021	0.013	
106-93-4	1,2-Dibromoethane	ND	0.18	0.10	ND	0.023	0.013	
127-18-4	Tetrachloroethene	25	0.18	0.11	3.7	0.026	0.016	
108-90-7	Chlorobenzene	ND	0.85	0.11	ND	0.19	0.025	
100-41-4	Ethylbenzene	1.1	0.85	0.12	0.24	0.20	0.028	
179601-23-1	m,p-Xylenes	3.9	1.8	0.23	0.90	0.41	0.052	
75-25-2	Bromoform	ND	0.87	0.18	ND	0.084	0.017	
100-42-5	Styrene	0.51	0.85	0.14	0.12	0.20	0.033	J
95-47-6	o-Xylene	1.5	0.85	0.12	0.33	0.20	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.18	0.12	ND	0.026	0.017	
98-82-8	Cumene	ND	0.87	0.12	ND	0.18	0.025	
541-73-1	1,3-Dichlorobenzene	ND	0.85	0.13	ND	0.14	0.021	
106-46-7	1,4-Dichlorobenzene	0.14	0.85	0.13	0.024	0.14	0.022	J
95-50-1	1,2-Dichlorobenzene	0.15	0.87	0.13	0.025	0.14	0.021	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.8	0.16	ND	0.18	0.017	
120-82-1	1,2,4-Trichlorobenzene	ND	1.8	0.21	ND	0.24	0.028	
79-20-9	Methyl Acetate	ND	0.81	0.39	ND	0.27	0.13	X
108-87-2	Methylcyclohexane	ND	0.81	0.42	ND	0.20	0.10	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS13\DATA\2023_03\24\03242327.D
 Acq On : 24 Mar 2023 22:13
 Sample : P2301250-022 (1000mL)
 Misc : S35-01202301

Vial: 11
 Operator: TZ
 Inst : MS13

Tz 3/27/23

Quant Time: Mar 27 13:51:56 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	239906	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	9.38	114	1052992	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	202123	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	407186	12.790	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.32%
57) Toluene-d8 (SS2)	12.48	98	1196085	11.507	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.08%
73) Bromofluorobenzene (SS3)	16.85	174	443735	11.655	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.28%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	3.46	85	71131	1.619	ng	99
4) Chloromethane	0.00	50	0	N.D.	d	
5) 1,2-Dichloro-1,1,2,2-t...	3.73	135	1693	0.076	ng	87
6) Vinyl Chloride	3.79	62	1634	0.056	ng	94
7) 1,3-Butadiene	0.00	54	0	N.D.	d	
8) Bromomethane	4.09	94	130	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	4.46	45	2532585	148.641	ng	100
11) Acetonitrile	0.00	41	0	N.D.		
12) Acrolein	4.64	56	2129	0.151	ng	93
13) Acetone	4.73	58	327416	22.516	ng	96
14) Trichlorofluoromethane	4.86	101	27906	0.705	ng	98
15) 2-Propanol (Isopropanol)	5.00	45	191420m	3.261	ng	
16) Acrylonitrile	5.11	53	1198	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.44	84	49559	2.325	ng	93
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	5.67	151	6642	0.319	ng	93
22) Carbon Disulfide	5.70	76	9597	0.114	ng	93
23) trans-1,2-Dichloroethene	6.23	61	186	N.D.		
24) 1,1-Dichloroethane	6.42	63	1392	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.	d	
26) Vinyl Acetate	6.54	86	1549	0.394	ng	# 28
27) 2-Butanone (MEK)	6.76	72	13684	1.060	ng	97
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	7.37	61	78438	9.240	ng	95
31) n-Hexane	7.38	57	8350	0.256	ng	96
32) Chloroform	7.45	83	17309	0.448	ng	99
34) Tetrahydrofuran (THF)	7.85	72	4069	0.307	ng	# 1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.20	62	170	N.D.		
38) 1,1,1-Trichloroethane	8.48	97	55891	1.604	ng	99
39) Isopropyl Acetate	9.38	61	30192	No Calib		
40) 1-Butanol	8.88	56	253471	No Calib	#	
41) Benzene	8.98	78	17397	0.212	ng	97
42) Carbon Tetrachloride	9.14	117	6301	0.205	ng	96
43) Cyclohexane	9.28	84	2189	0.073	ng	# 78
44) tert-Amyl Methyl Ether	9.67	73	1006	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	10.17	83	223	N.D.		
47) Trichloroethene	10.22	130	55316	2.305	ng	100
48) 1,4-Dioxane	0.00	88	0	N.D.	d	
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.	d	
50) Methyl Methacrylate	0.00	100	0	N.D.	d	

Data File : I:\MS13\DATA\2023_03\24\03242327.D
 Acq On : 24 Mar 2023 22:13
 Sample : P2301250-022 (1000mL)
 Misc : S35-01202301

Vial: 11
 Operator: TZ
 Inst : MS13

Quant Time: Mar 27 13:51:56 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

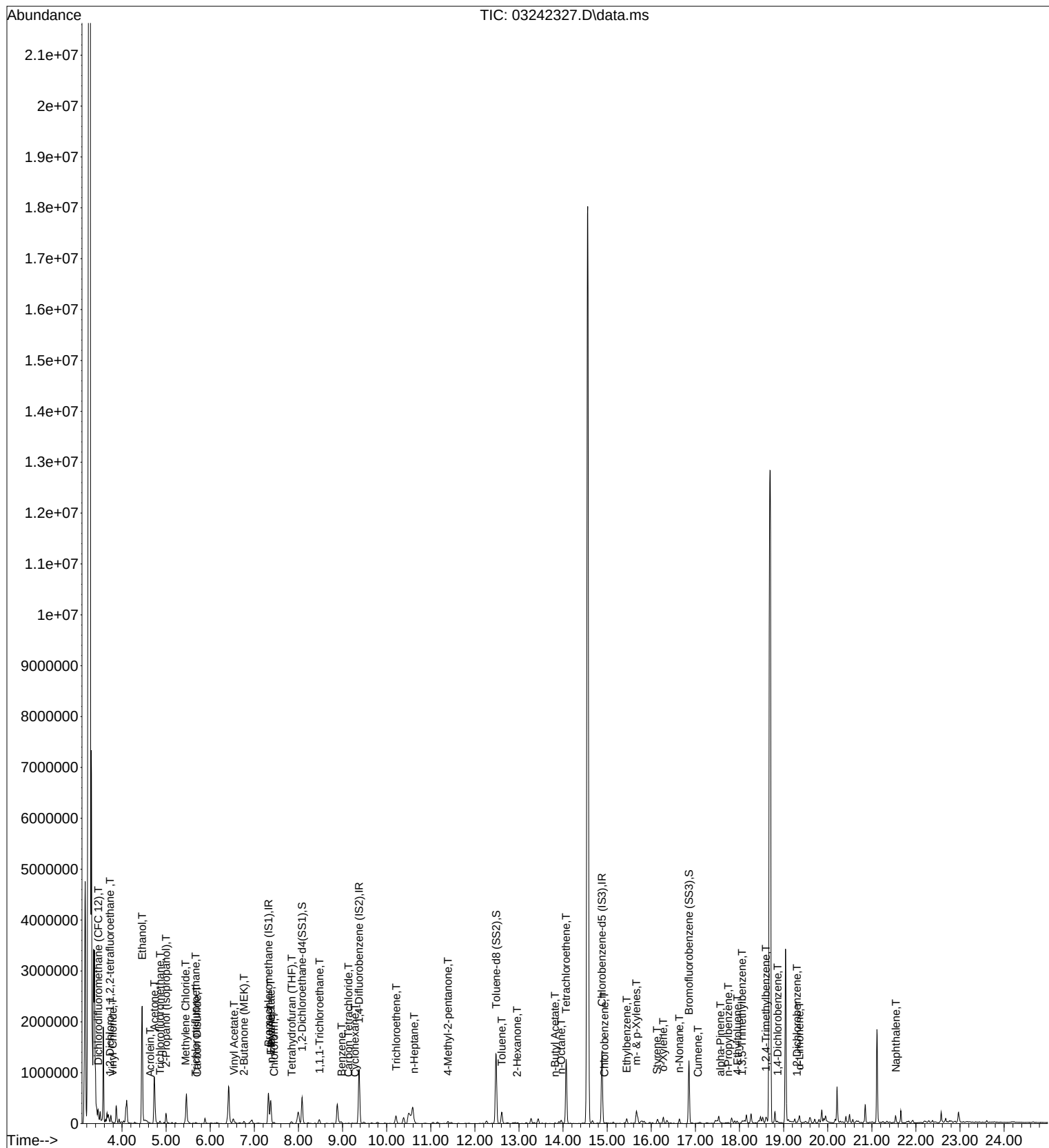
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.63	71	7996	0.403	ng	# 62
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.39	58	14166	0.802	ng	97
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.61	91	196502	1.986	ng	99
59) 2-Hexanone	12.96	43	11931	0.248	ng	75
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	13.44	107	106	N.D.		
62) n-Butyl Acetate	13.82	43	13021	0.238	ng	94
63) n-Octane	13.96	57	12878	0.662	ng	91
64) Tetrachloroethene	14.07	166	463750	15.405	ng	99
65) Chlorobenzene	14.94	112	4020	0.062	ng	93
66) Ethylbenzene	15.44	91	77079	0.653	ng	99
67) m- & p-Xylenes	15.66	91	230906	2.430	ng	99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.13	104	20519	0.314	ng	98
70) o-Xylene	16.27	91	81884	0.901	ng	97
71) n-Nonane	16.64	43	36963	0.841	ng	92
72) 1,1,2,2-Tetrachloroethane	16.24	83	195	N.D.		
74) Cumene	17.06	105	5868	0.053	ng	98
75) alpha-Pinene	17.57	93	10093	0.198	ng	93
76) n-Propylbenzene	17.74	91	13893	0.105	ng	95
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	14839	0.140	ng	94
79) 1,3,5-Trimethylbenzene	18.05	105	16604	0.177	ng	96
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.60	105	48292	0.522	ng	89
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	18.77	91	678	N.D.		
85) 1,3-Dichlorobenzene	18.78	146	2778	N.D.		
86) 1,4-Dichlorobenzene	18.87	146	5131	0.089	ng	99
87) sec-Butylbenzene	18.96	105	2664	N.D.		
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.	d	
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.30	146	5168	0.093	ng	100
91) d-Limonene	19.36	68	31259	1.000	ng	97
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.26	58	8786	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	552	N.D.		
95) Naphthalene	21.55	128	19847	0.198	ng	99
96) n-Dodecane	19.14	58	630	No Calib	#	
97) Hexachlorobutadiene	21.98	225	170	N.D.		
98) Cyclohexanone	15.68	55	1252	No Calib	#	
99) tert-Butylbenzene	0.00	119	0	N.D.	d	
100) n-Butylbenzene	0.00	91	0	N.D.	d	
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242327.D
Acq On : 24 Mar 2023 22:13
Sample : P2301250-022 (1000mL)
Misc : S35-01202301

Vial: 11
Operator: TZ
Inst : MS13

Quant Time: Mar 27 13:51:56 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242327.D
 Acq On : 24 Mar 2023 22:13
 Sample : P2301250-022 (1000mL)
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Vial: 11
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TZ 3/27/23

Quant Time: Mar 27 13:51:56 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	239906	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	9.38	114	1052992	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	202123	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	407186	12.790	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.32%
57) Toluene-d8 (SS2)	12.48	98	1196085	11.507	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.08%
73) Bromofluorobenzene (SS3)	16.85	174	443735	11.655	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.28%

Target Compounds

						Qvalue
3) Dichlorodifluoromethan...	3.46	85	71131	1.619	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	3.73	135	1693	0.076	ng	87
6) Vinyl Chloride	3.79	62	1634	0.056	ng	94
10) Ethanol	4.46	45	2532585	148.641	ng	100
12) Acrolein	4.64	56	2129	0.151	ng	93
13) Acetone	4.73	58	327416	22.516	ng	96
14) Trichlorofluoromethane	4.86	101	27906	0.705	ng	98
15) 2-Propanol (Isopropanol)	5.00	45	191420m	3.261	ng	
19) Methylene Chloride	5.44	84	49559	2.325	ng	93
21) Trichlorotrifluoroethane	5.67	151	6642	0.319	ng	93
22) Carbon Disulfide	5.70	76	9597	0.114	ng	93
26) Vinyl Acetate	6.54	86	1549	0.394	ng	# 28
27) 2-Butanone (MEK)	6.76	72	13684	1.060	ng	97
30) Ethyl Acetate	7.37	61	78438	9.240	ng	95
31) n-Hexane	7.38	57	8350	0.256	ng	96
32) Chloroform	7.45	83	17309	0.448	ng	99
34) Tetrahydrofuran (THF)	7.85	72	4069	0.307	ng	# 1
38) 1,1,1-Trichloroethane	8.48	97	55891	1.604	ng	99
41) Benzene	8.98	78	17397	0.212	ng	97
42) Carbon Tetrachloride	9.14	117	6301	0.205	ng	96
43) Cyclohexane	9.28	84	2189	0.073	ng	# 78
47) Trichloroethene	10.22	130	55316	2.305	ng	100
51) n-Heptane	10.63	71	7996	0.403	ng	# 62
53) 4-Methyl-2-pentanone	11.39	58	14166	0.802	ng	97
58) Toluene	12.61	91	196502	1.986	ng	99
59) 2-Hexanone	12.96	43	11931	0.248	ng	75
62) n-Butyl Acetate	13.82	43	13021	0.238	ng	94
63) n-Octane	13.96	57	12878	0.662	ng	91
64) Tetrachloroethene	14.07	166	463750	15.405	ng	99
65) Chlorobenzene	14.94	112	4020	0.062	ng	93
66) Ethylbenzene	15.44	91	77079	0.653	ng	99
67) m- & p-Xylenes	15.66	91	230906	2.430	ng	99
69) Styrene	16.13	104	20519	0.314	ng	98
70) o-Xylene	16.27	91	81884	0.901	ng	97
71) n-Nonane	16.64	43	36963	0.841	ng	92
74) Cumene	17.06	105	5868	0.053	ng	98
75) alpha-Pinene	17.57	93	10093	0.198	ng	93
76) n-Propylbenzene	17.74	91	13893	0.105	ng	95
78) 4-Ethyltoluene	17.95	105	14839	0.140	ng	94
79) 1,3,5-Trimethylbenzene	18.05	105	16604	0.177	ng	96
82) 1,2,4-Trimethylbenzene	18.60	105	48292	0.522	ng	89
86) 1,4-Dichlorobenzene	18.87	146	5131	0.089	ng	99
90) 1,2-Dichlorobenzene	19.30	146	5168	0.093	ng	100
91) d-Limonene	19.36	68	31259	1.000	ng	97
95) Naphthalene	21.55	128	19847	0.198	ng	99

Data File : I:\MS13\DATA\2023_03\24\03242327.D
Acq On : 24 Mar 2023 22:13
Sample : P2301250-022 (1000mL)
Misc : S35-01202301

Vial: 11
Operator: TZ
Inst : MS13

Quant Time: Mar 27 13:51:56 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M

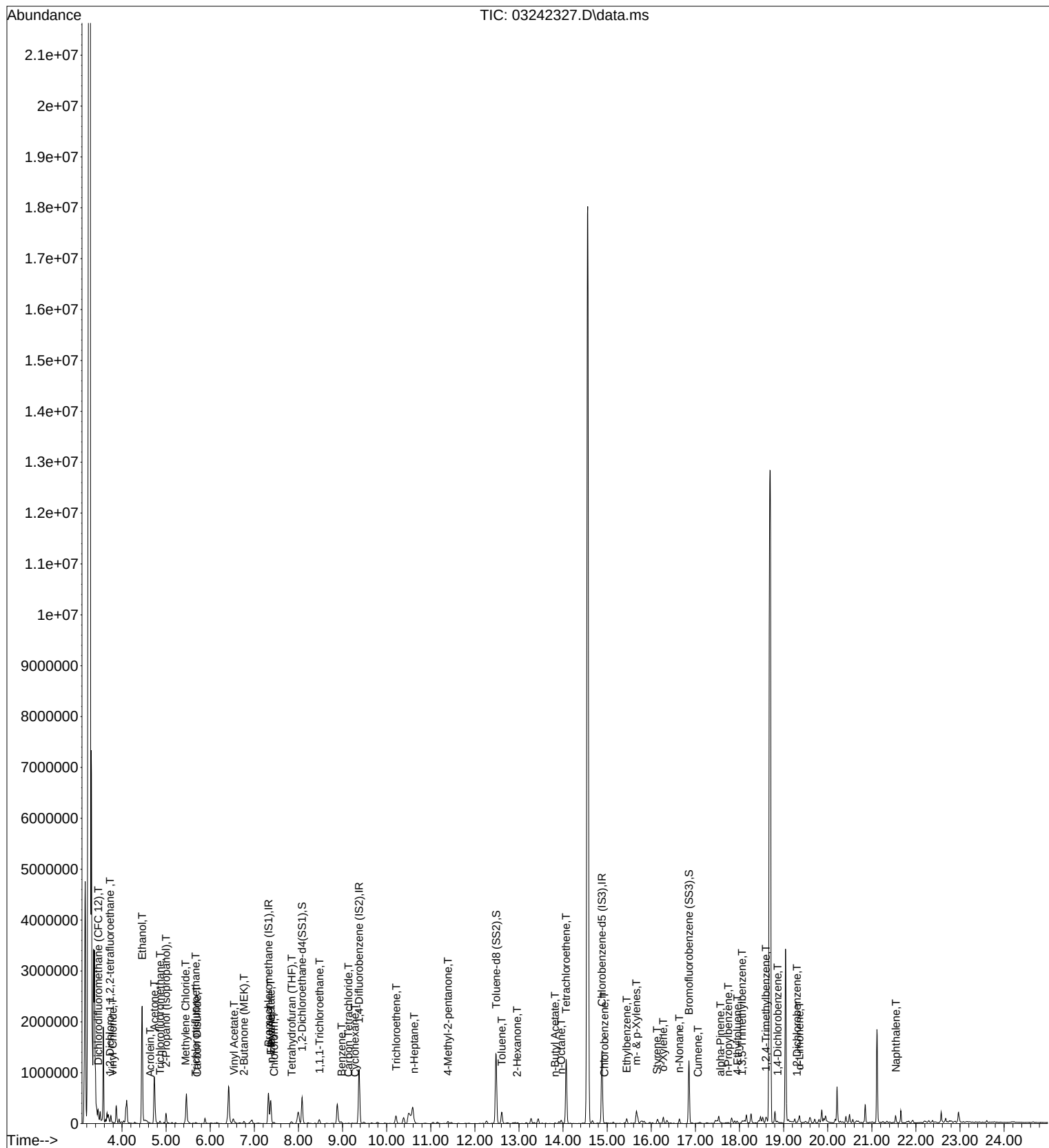
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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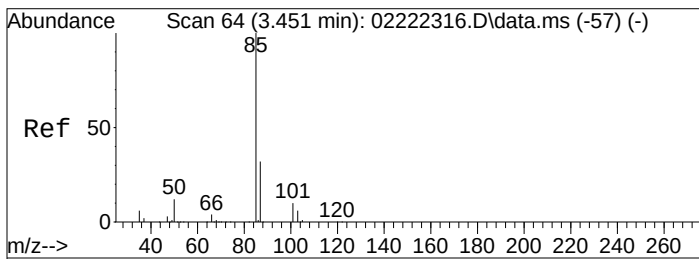
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS13\DATA\2023_03\24\03242327.D
Acq On : 24 Mar 2023 22:13
Sample : P2301250-022 (1000mL)
Misc : S35-01202301

Vial: 11
Operator: TZ
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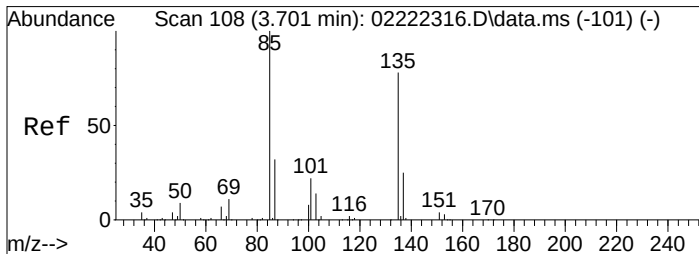
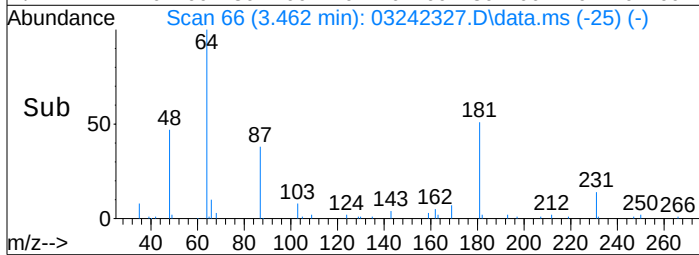
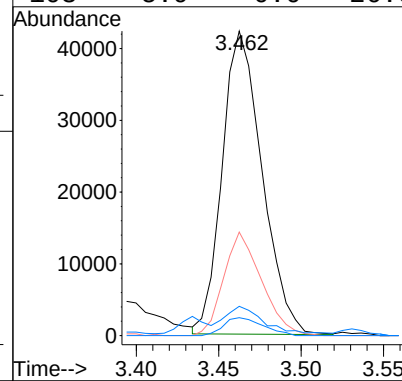
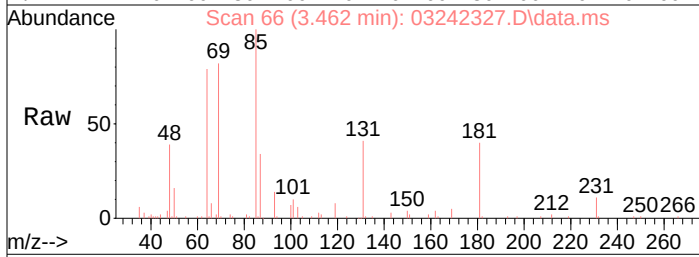
Quant Time: Mar 27 13:51:56 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M





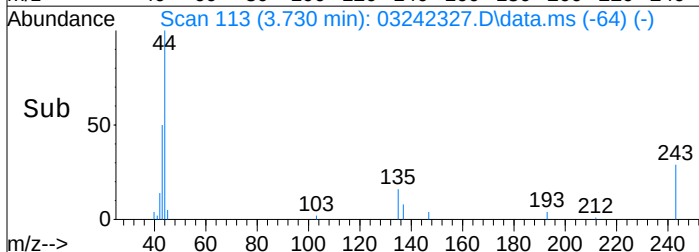
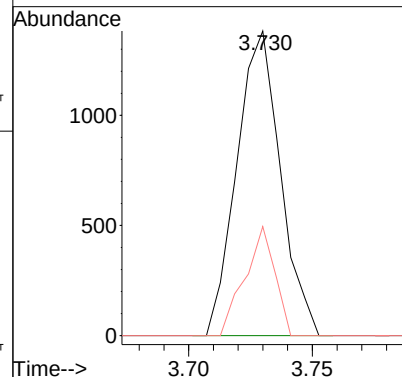
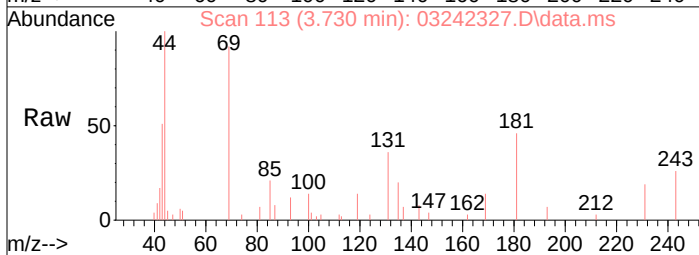
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.62 ng
 RT: 3.46 min Scan# 66
 Delta R.T. -0.016 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 22:13

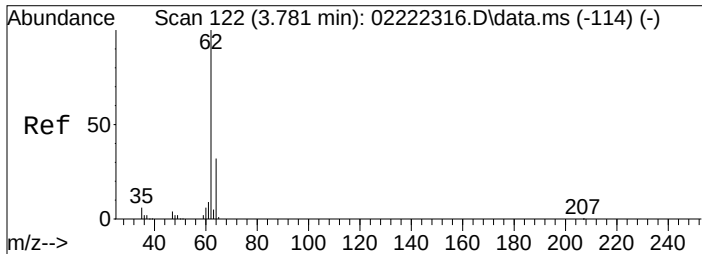
Tgt Ion: 85 Resp: 71131
 Ion Ratio Lower Upper
 85 100
 87 32.3 12.4 52.4
 101 8.1 0.0 29.4
 103 5.9 0.0 26.0



#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.08 ng
 RT: 3.73 min Scan# 113
 Delta R.T. 0.029 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 22:13

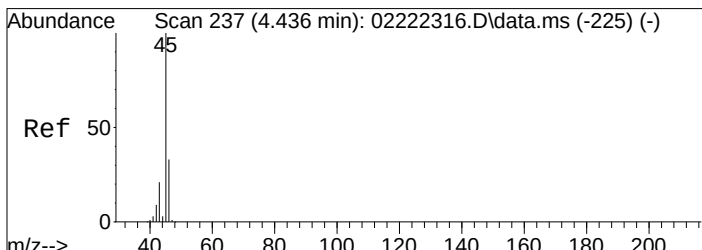
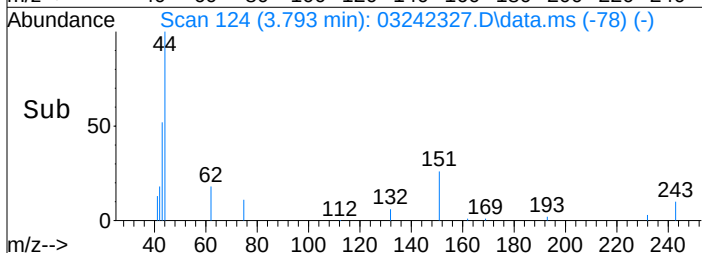
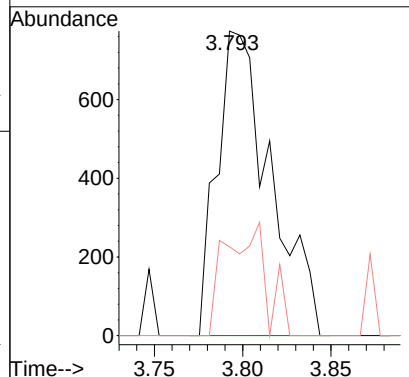
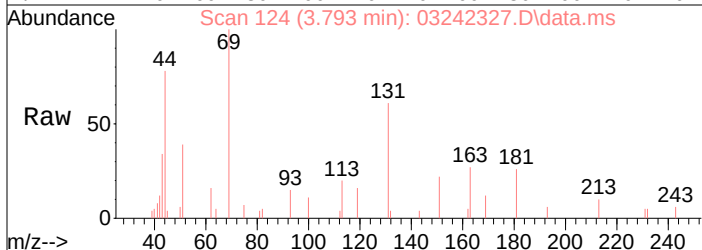
Tgt Ion: 135 Resp: 1693
 Ion Ratio Lower Upper
 135 100
 137 24.7 12.2 52.2





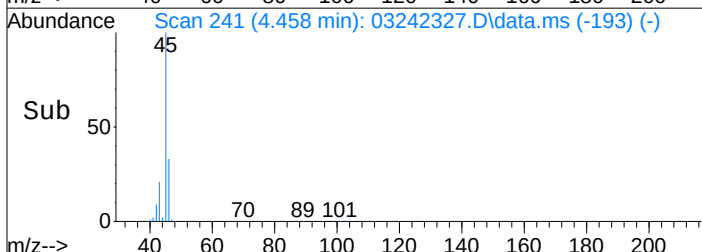
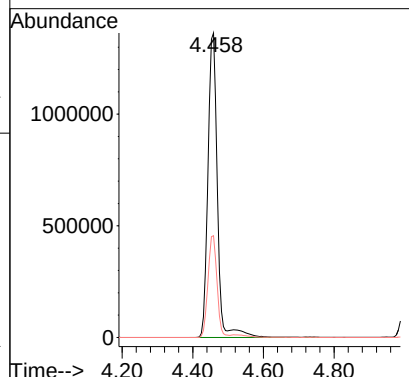
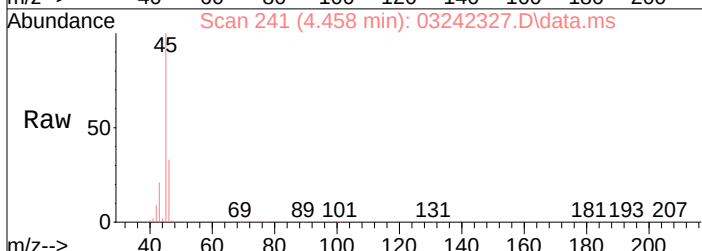
#6
 Vinyl Chloride
 Concen: 0.06 ng
 RT: 3.79 min Scan# 124
 Delta R.T. 0.011 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 22:13

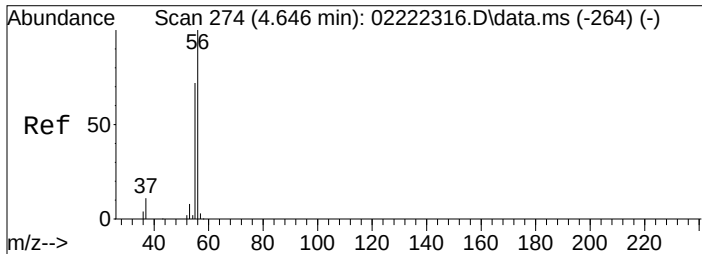
Tgt Ion:	62	Resp:	1634
Ion Ratio	Lower	Upper	
62	100		
64	28.7	11.8	51.8



#10
 Ethanol
 Concen: 148.64 ng
 RT: 4.46 min Scan# 241
 Delta R.T. 0.023 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 22:13

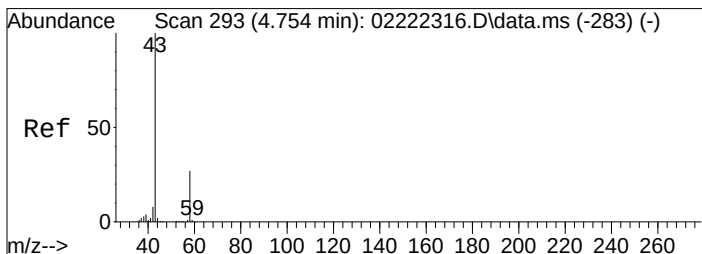
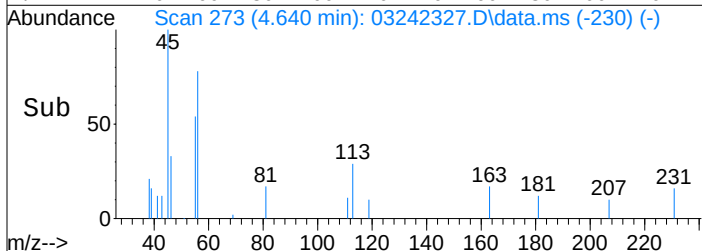
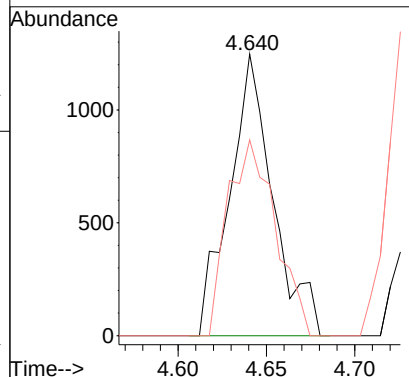
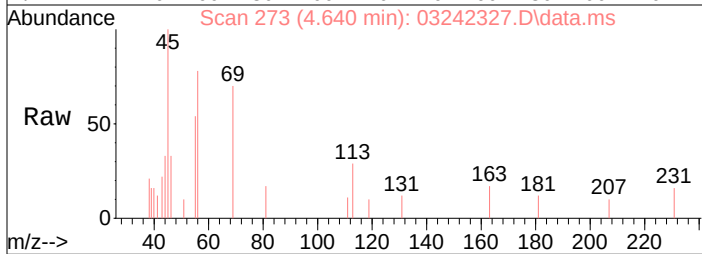
Tgt Ion:	45	Resp:	2532585
Ion Ratio	Lower	Upper	
45	100		
46	33.6	13.8	53.8





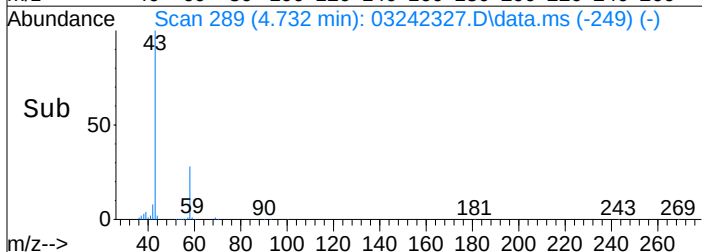
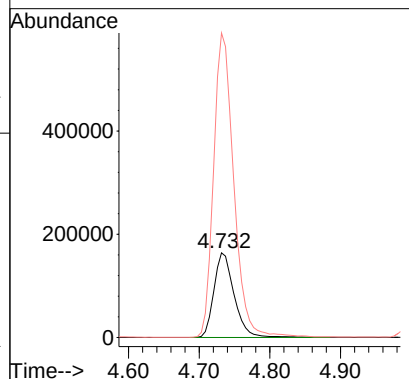
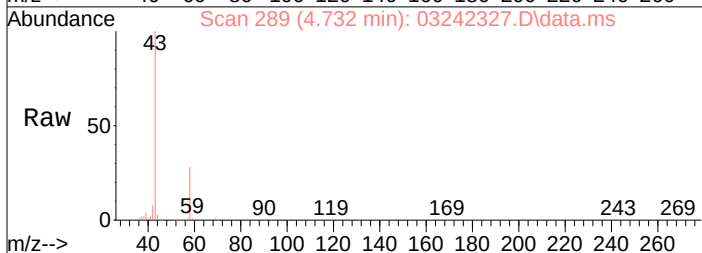
#12
 Acrolein
 Concen: 0.15 ng
 RT: 4.64 min Scan# 273
 Delta R.T. -0.006 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 22:13

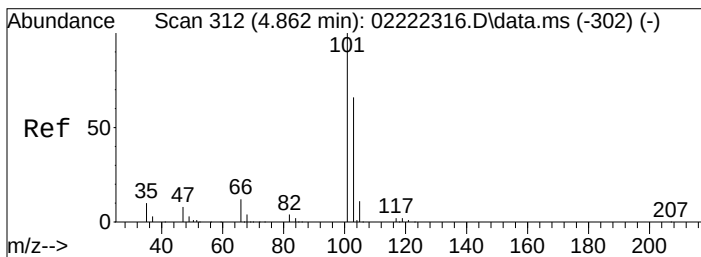
Tgt Ion: 56 Resp: 2129
 Ion Ratio Lower Upper
 56 100
 55 76.4 50.9 90.9



#13
 Acetone
 Concen: 22.52 ng
 RT: 4.73 min Scan# 289
 Delta R.T. -0.023 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 22:13

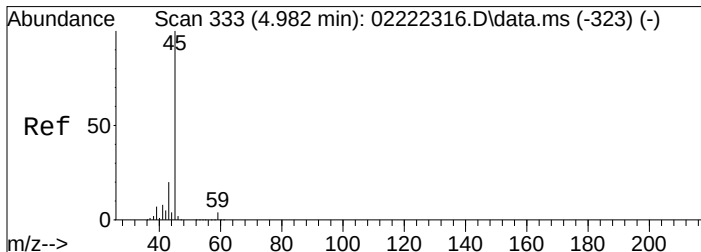
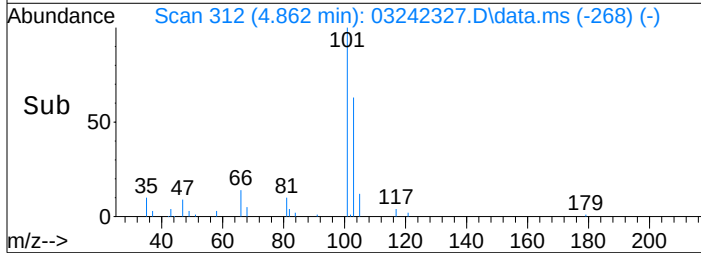
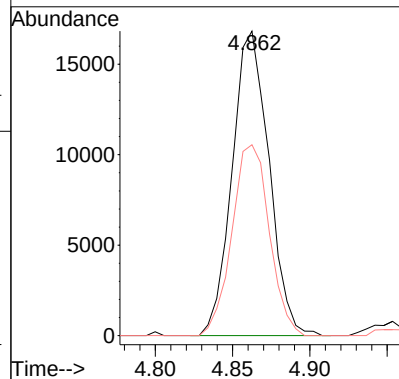
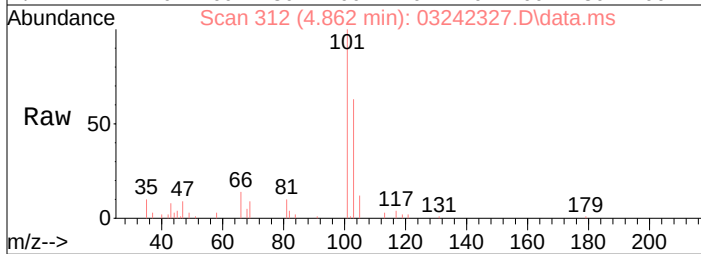
Tgt Ion: 58 Resp: 327416
 Ion Ratio Lower Upper
 58 100
 43 358.4 337.8 397.8





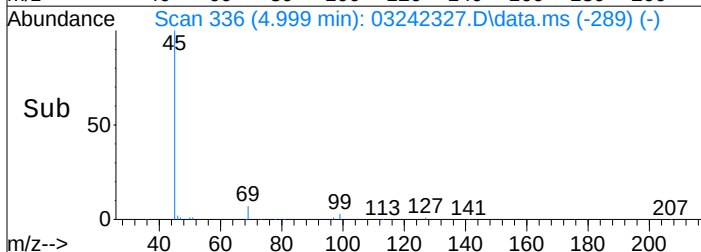
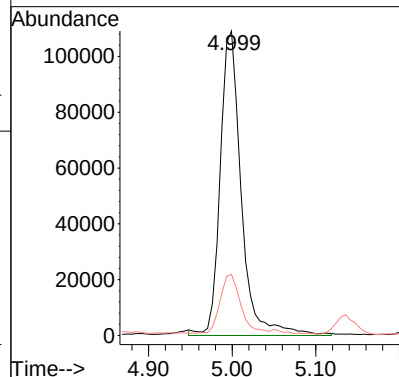
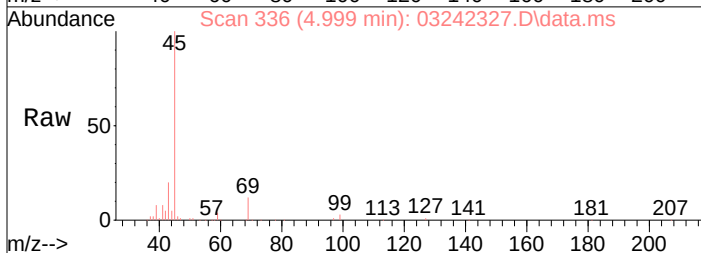
#14
 Trichlorofluoromethane
 Concen: 0.71 ng
 RT: 4.86 min Scan# 312
 Delta R.T. 0.000 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 22:13

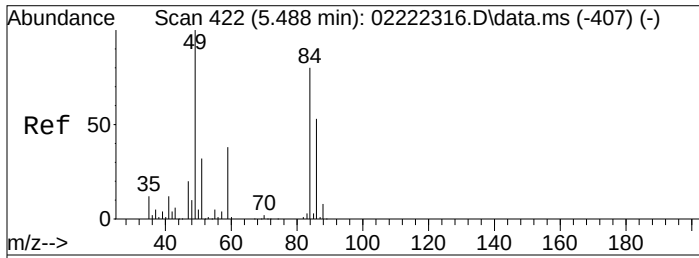
Tgt Ion: 101 Resp: 27906
 Ion Ratio Lower Upper
 101 100
 103 63.6 45.2 85.2



#15
 2-Propanol (Isopropanol)
 Concen: 3.26 ng m
 RT: 5.00 min Scan# 336
 Delta R.T. 0.017 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 22:13

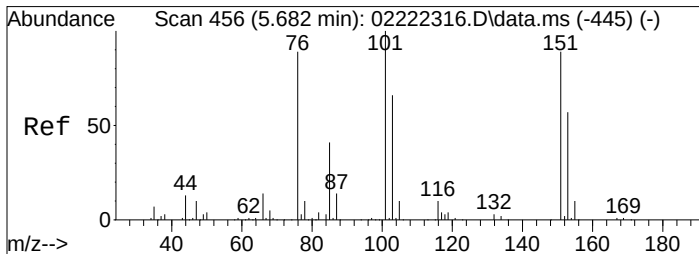
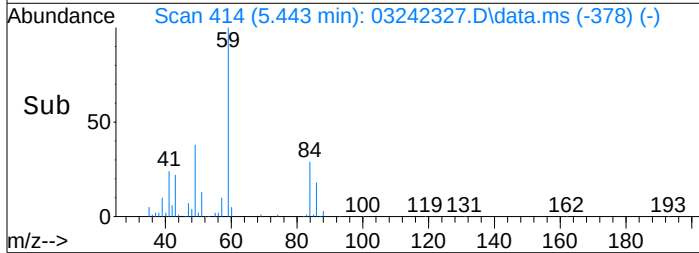
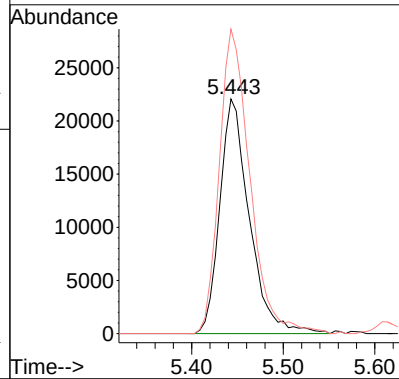
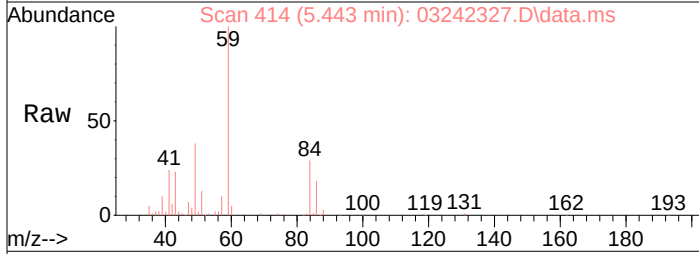
Tgt Ion: 45 Resp: 191420
 Ion Ratio Lower Upper
 45 100
 43 20.9 0.0 39.7





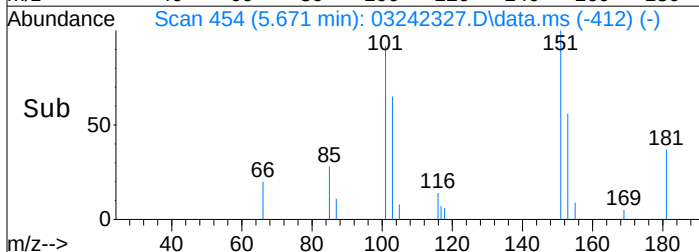
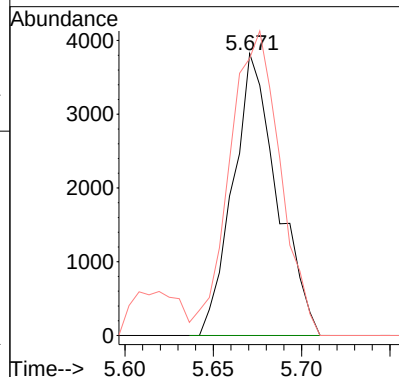
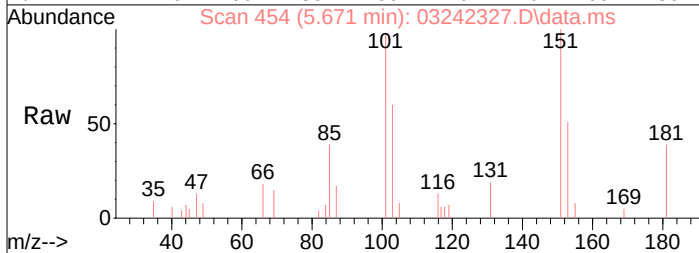
#19
Methylene Chloride
Concen: 2.32 ng
RT: 5.44 min Scan# 414
Delta R.T. -0.045 min
Lab File: 03242327.D
Acq: 24 Mar 2023 22:13

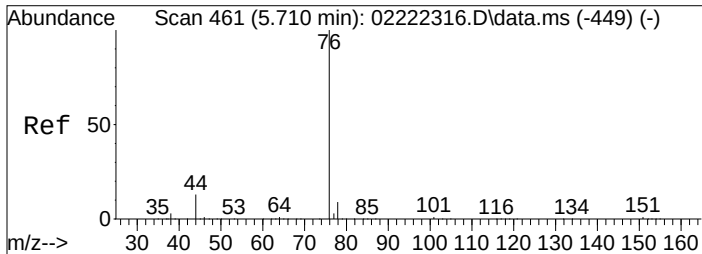
Tgt Ion: 84 Resp: 49559
Ion Ratio Lower Upper
84 100
49 134.3 101.3 151.3



#21
Trichlorotrifluoroethane
Concen: 0.32 ng
RT: 5.67 min Scan# 454
Delta R.T. -0.011 min
Lab File: 03242327.D
Acq: 24 Mar 2023 22:13

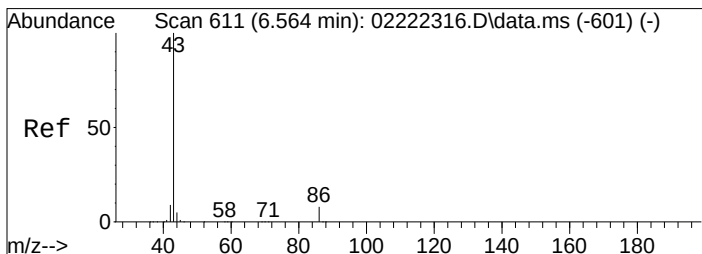
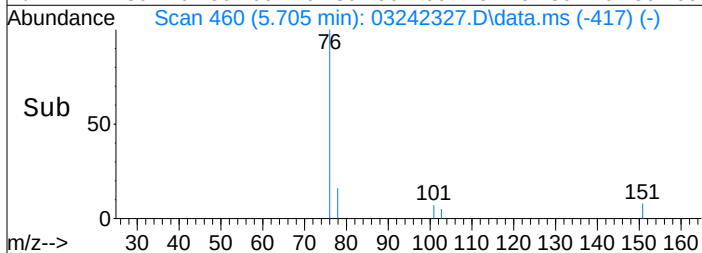
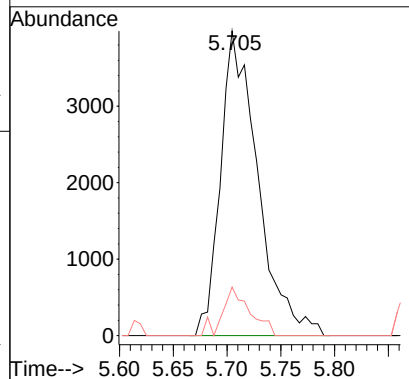
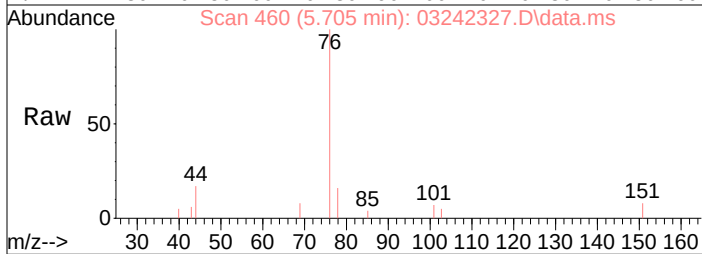
Tgt Ion: 151 Resp: 6642
Ion Ratio Lower Upper
151 100
101 123.5 96.3 136.3





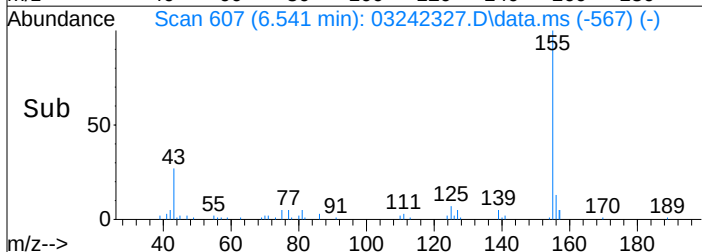
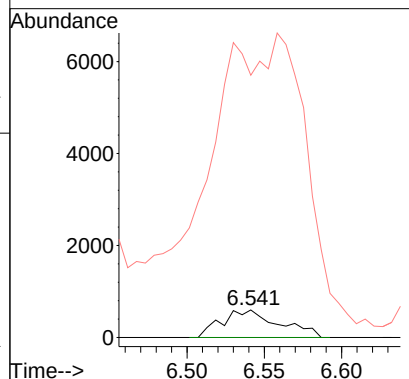
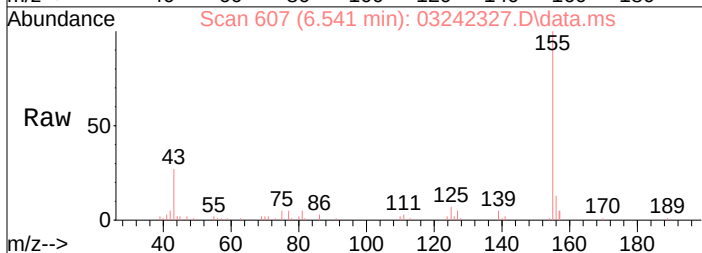
#22
 Carbon Disulfide
 Concen: 0.11 ng
 RT: 5.70 min Scan# 460
 Delta R.T. -0.006 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 22:13

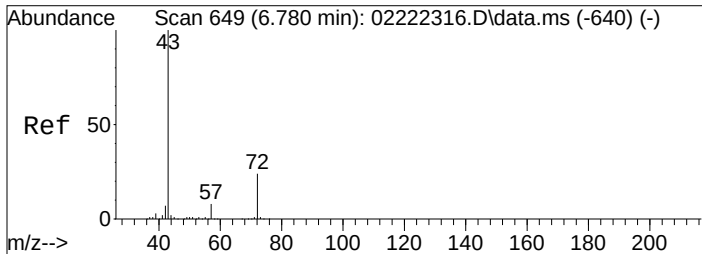
Tgt Ion: 76 Resp: 9597
 Ion Ratio Lower Upper
 76 100
 78 11.7 0.0 29.3



#26
 Vinyl Acetate
 Concen: 0.39 ng
 RT: 6.54 min Scan# 607
 Delta R.T. -0.023 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 22:13

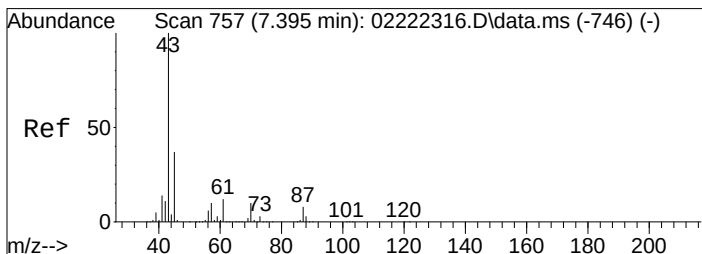
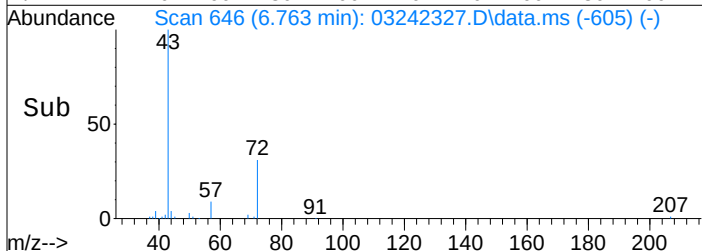
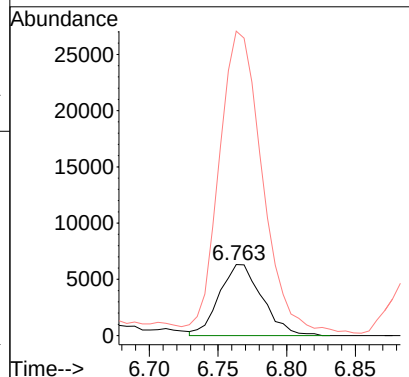
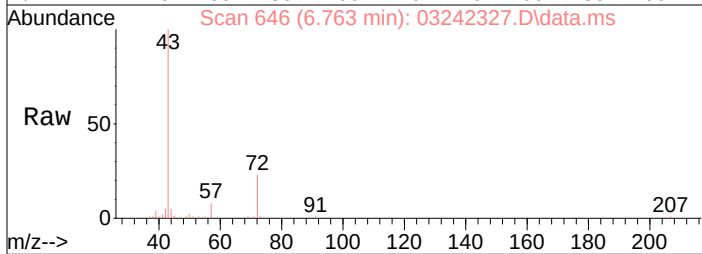
Tgt Ion: 86 Resp: 1549
 Ion Ratio Lower Upper
 86 100
 43 1700.8 1292.1 1332.1#





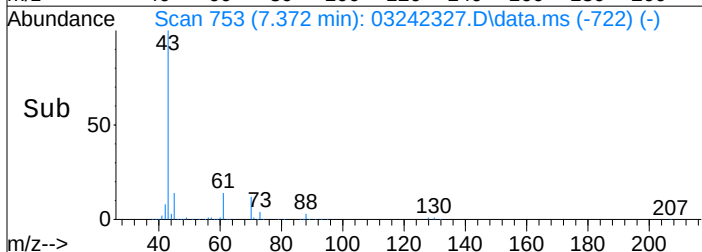
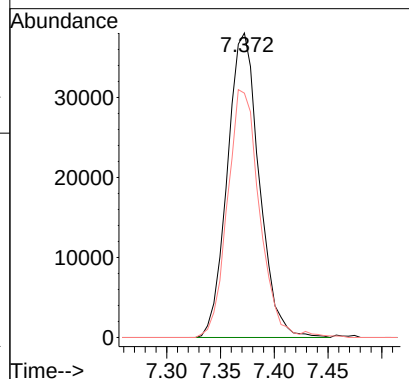
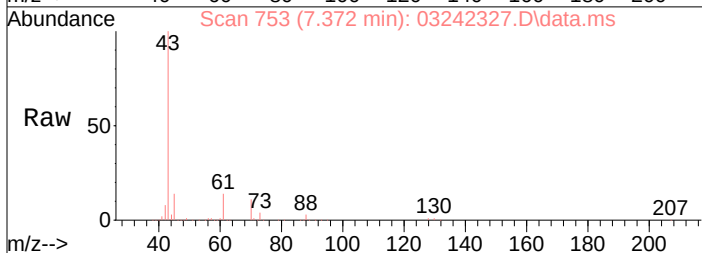
#27
 2-Butanone (MEK)
 Concen: 1.06 ng
 RT: 6.76 min Scan# 646
 Delta R.T. -0.017 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 22:13

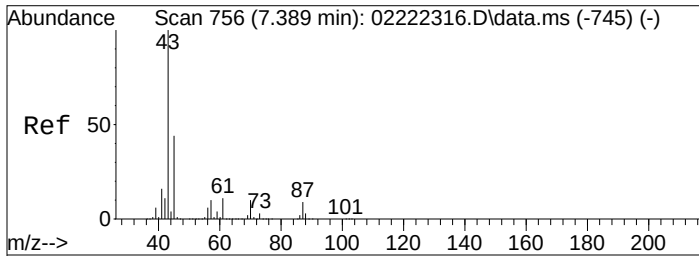
Tgt Ion: 72 Resp: 13684
 Ion Ratio Lower Upper
 72 100
 43 428.8 400.5 440.5



#30
 Ethyl Acetate
 Concen: 9.24 ng
 RT: 7.37 min Scan# 753
 Delta R.T. -0.023 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 22:13

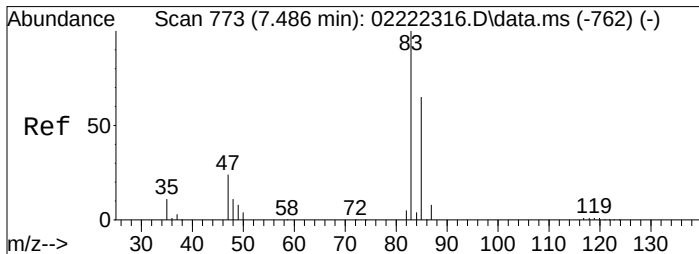
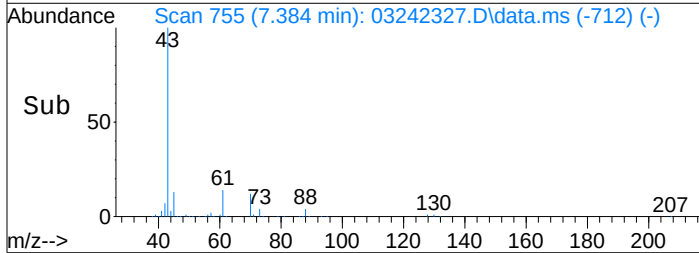
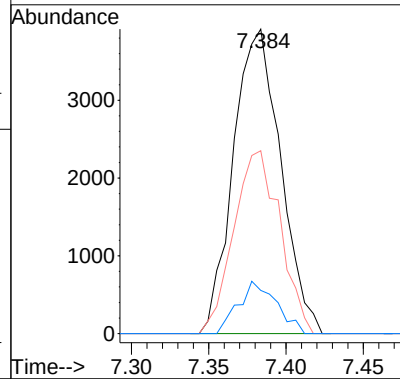
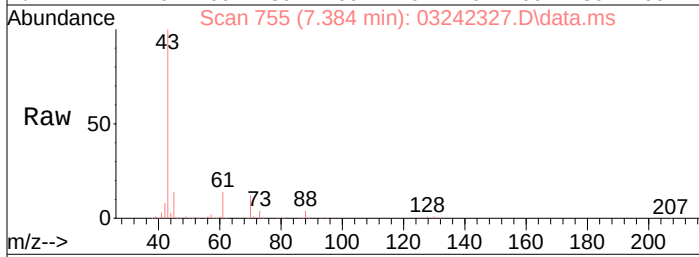
Tgt Ion: 61 Resp: 78438
 Ion Ratio Lower Upper
 61 100
 70 81.1 65.6 105.6





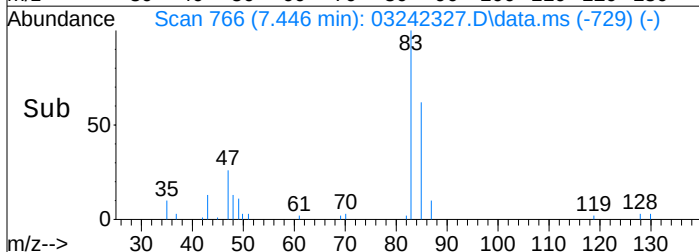
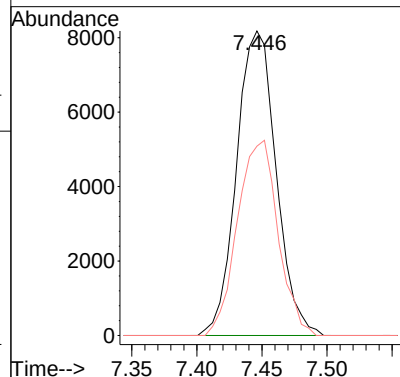
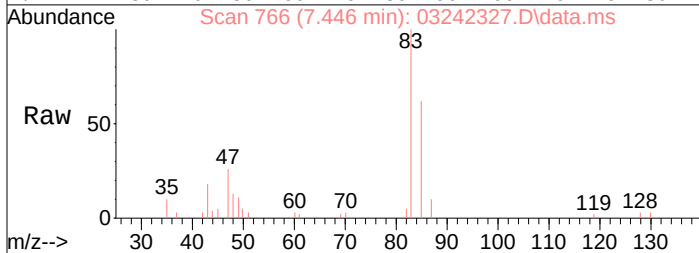
#31
n-Hexane
Concen: 0.26 ng
RT: 7.38 min Scan# 755
Delta R.T. -0.006 min
Lab File: 03242327.D
Acq: 24 Mar 2023 22:13

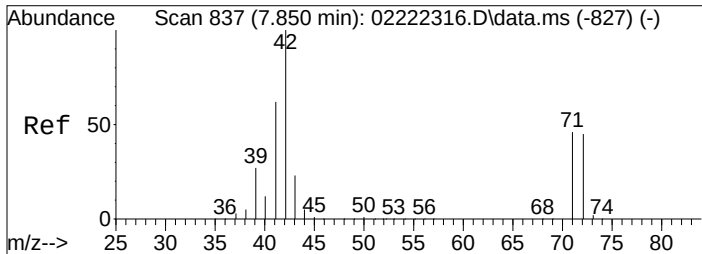
Tgt Ion: 57 Resp: 8350
Ion Ratio Lower Upper
57 100
56 58.8 44.0 66.0
86 13.8 11.5 17.3



#32
Chloroform
Concen: 0.45 ng
RT: 7.45 min Scan# 766
Delta R.T. -0.040 min
Lab File: 03242327.D
Acq: 24 Mar 2023 22:13

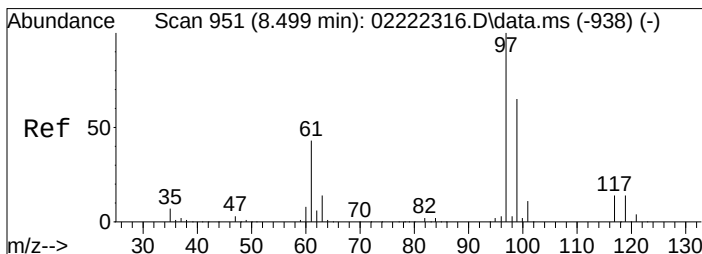
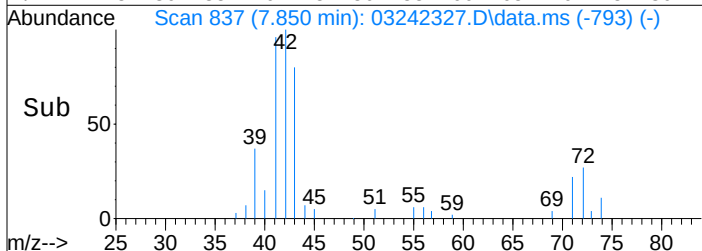
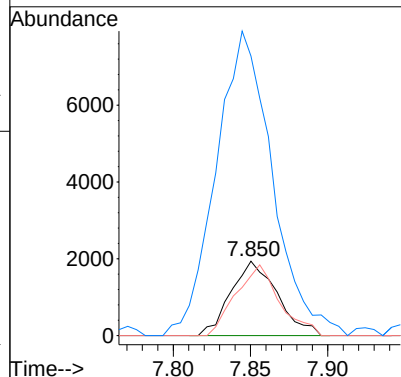
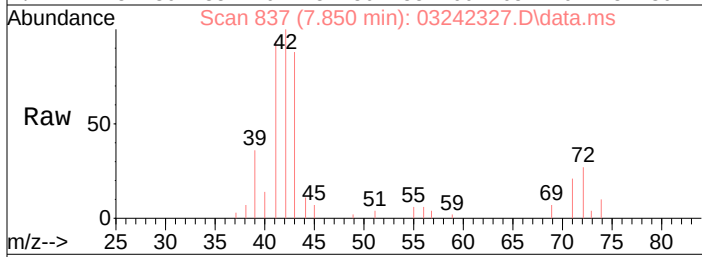
Tgt Ion: 83 Resp: 17309
Ion Ratio Lower Upper
83 100
85 65.6 45.0 85.0





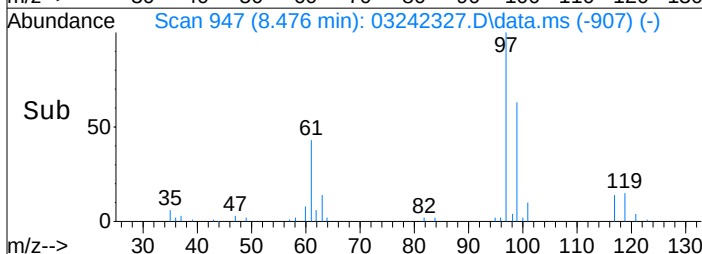
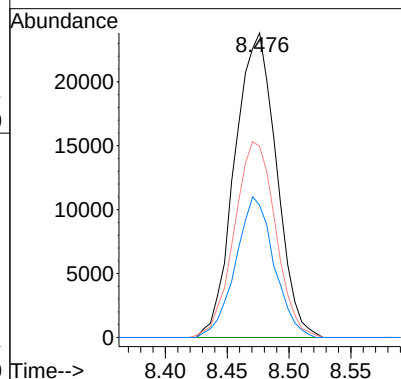
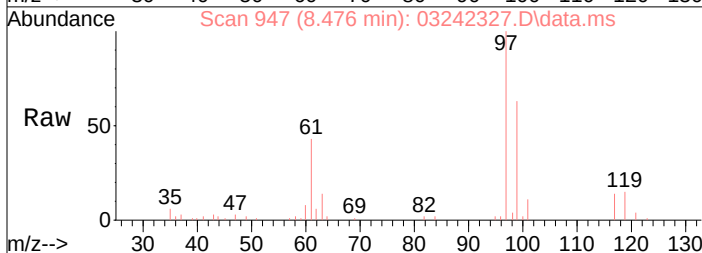
#34
 Tetrahydrofuran (THF)
 Concen: 0.31 ng
 RT: 7.85 min Scan# 837
 Delta R.T. 0.000 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 22:13

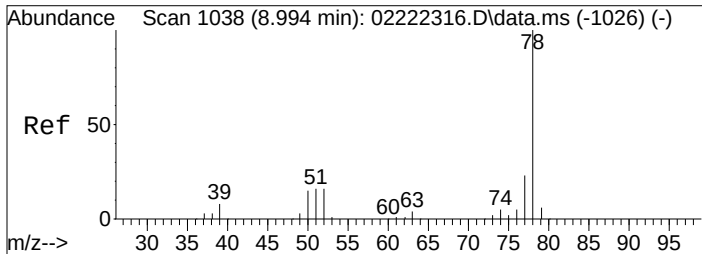
Tgt Ion:	72	Resp:	4069
Ion Ratio		Lower	Upper
72	100		
71	89.3	79.8	119.8
42	495.0	199.0	239.0#



#38
 1,1,1-Trichloroethane
 Concen: 1.60 ng
 RT: 8.48 min Scan# 947
 Delta R.T. -0.023 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 22:13

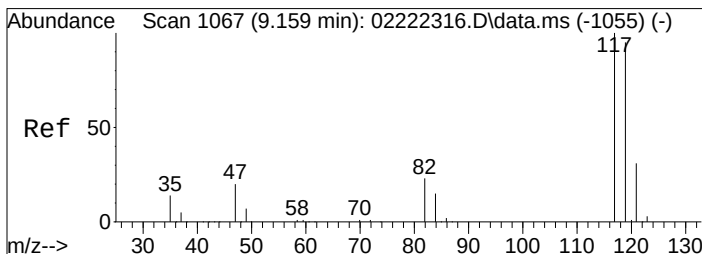
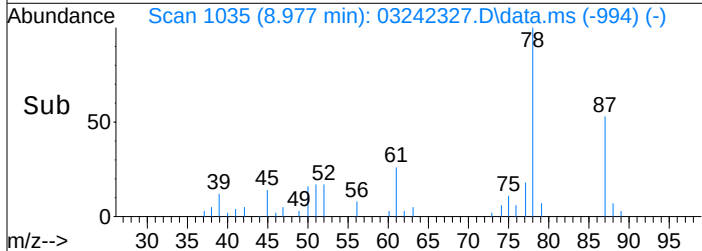
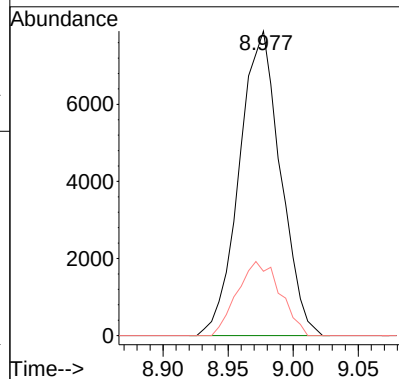
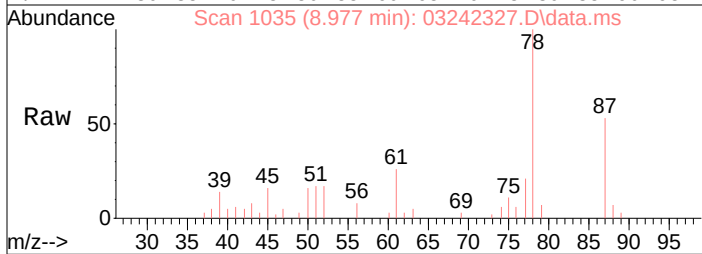
Tgt Ion:	97	Resp:	55891
Ion Ratio		Lower	Upper
97	100		
99	63.9	44.9	84.9
61	42.7	23.5	63.5





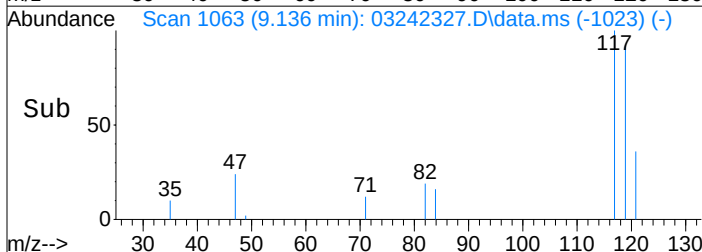
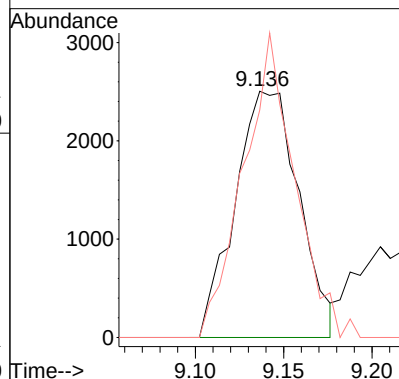
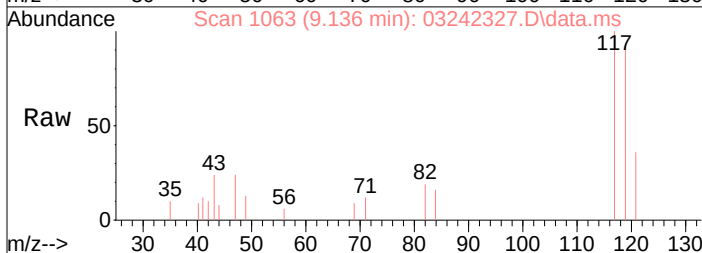
#41
Benzene
Concen: 0.21 ng
RT: 8.98 min Scan# 1035
Delta R.T. -0.017 min
Lab File: 03242327.D
Acq: 24 Mar 2023 22:13

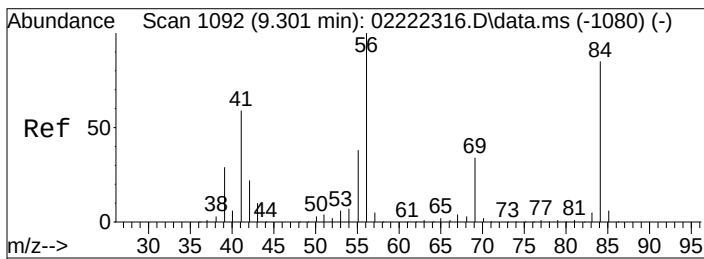
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	17397		
77	25.4	3.7		43.7



#42
Carbon Tetrachloride
Concen: 0.20 ng
RT: 9.14 min Scan# 1063
Delta R.T. -0.023 min
Lab File: 03242327.D
Acq: 24 Mar 2023 22:13

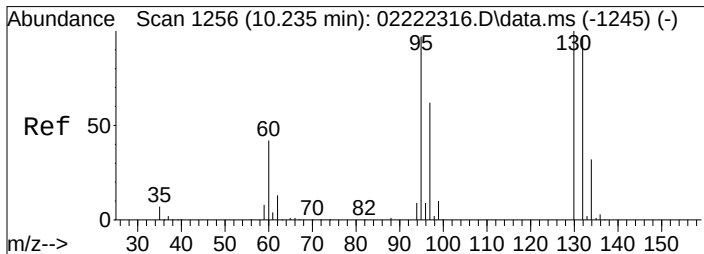
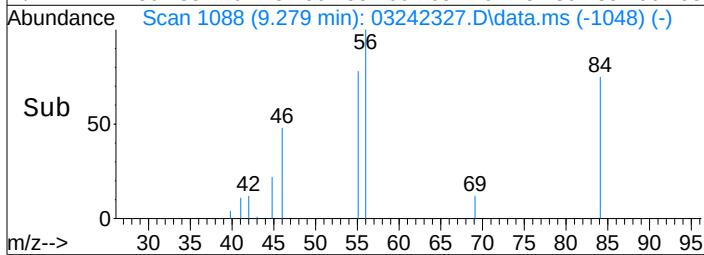
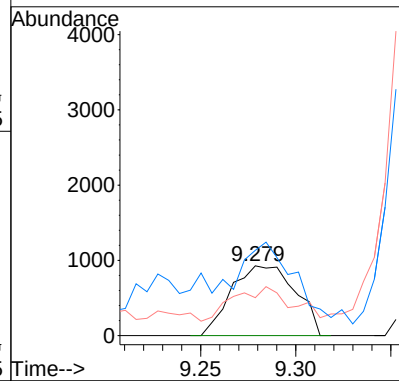
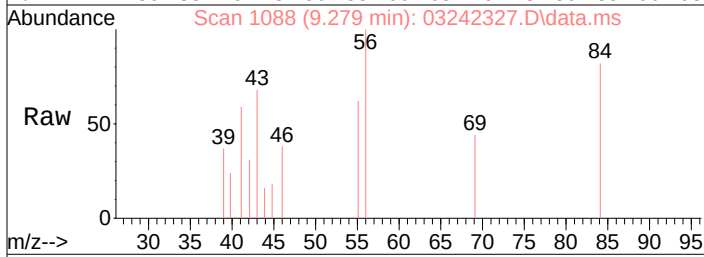
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	6301		
119	99.8	75.7		115.7





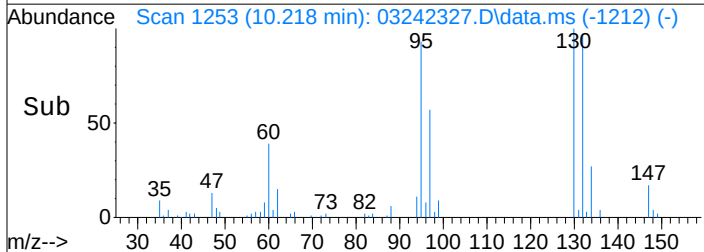
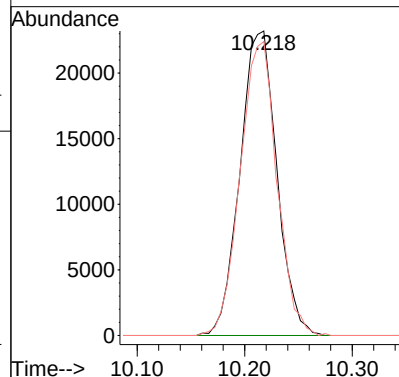
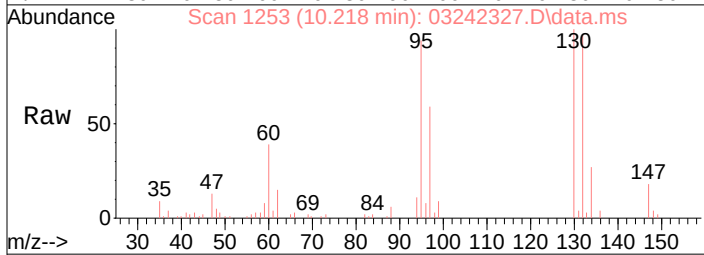
#43
Cyclohexane
Concen: 0.07 ng
RT: 9.28 min Scan# 1088
Delta R.T. -0.023 min
Lab File: 03242327.D
Acq: 24 Mar 2023 22:13

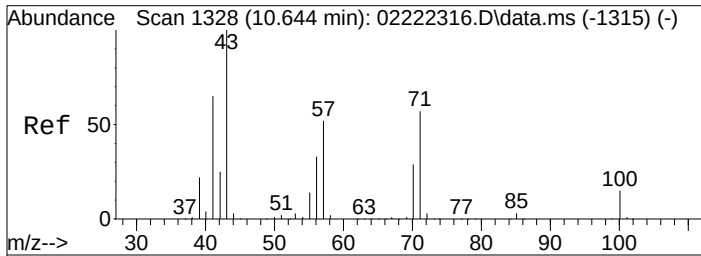
Tgt Ion: 84 Resp: 2189
Ion Ratio Lower Upper
84 100
69 47.8 20.0 60.0
56 91.5 98.5 138.5#



#47
Trichloroethene
Concen: 2.31 ng
RT: 10.22 min Scan# 1253
Delta R.T. -0.017 min
Lab File: 03242327.D
Acq: 24 Mar 2023 22:13

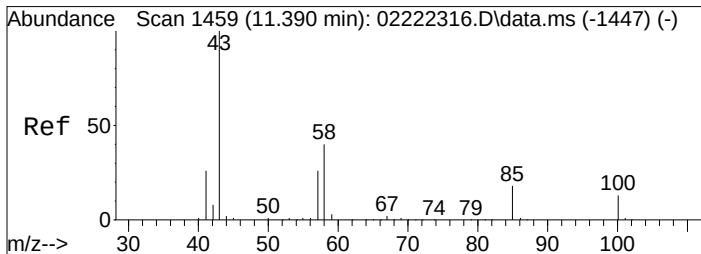
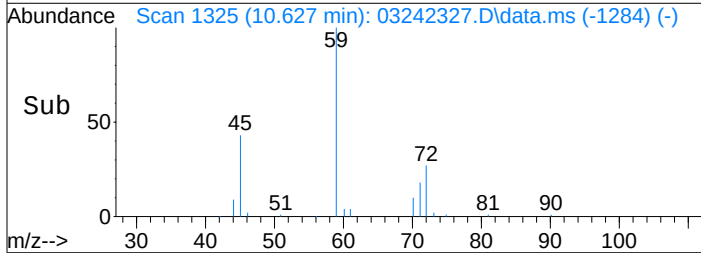
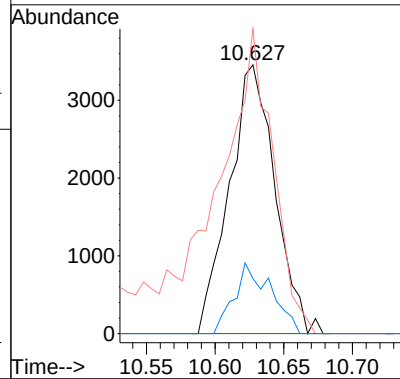
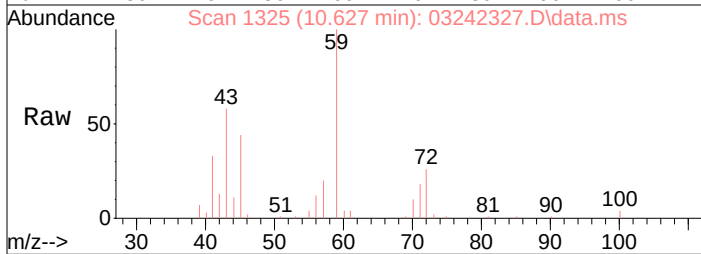
Tgt Ion: 130 Resp: 55316
Ion Ratio Lower Upper
130 100
132 96.2 76.3 116.3





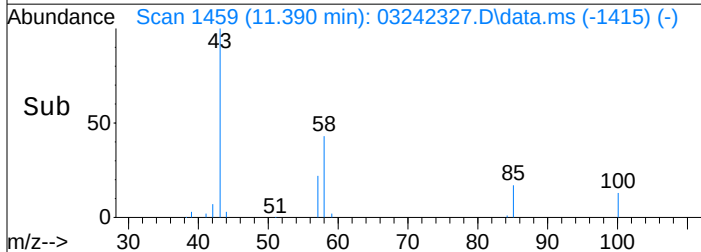
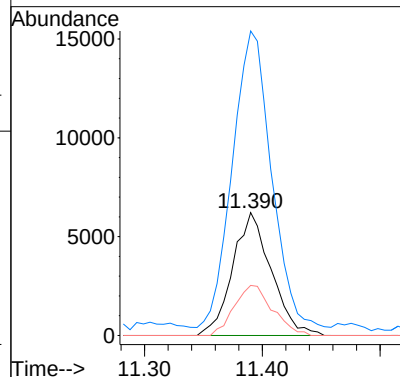
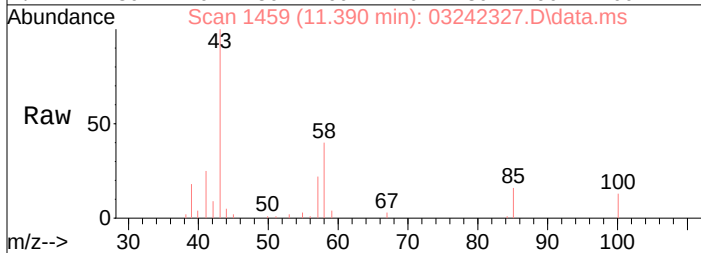
#51
n-Heptane
Concen: 0.40 ng
RT: 10.63 min Scan# 1325
Delta R.T. -0.017 min
Lab File: 03242327.D
Acq: 24 Mar 2023 22:13

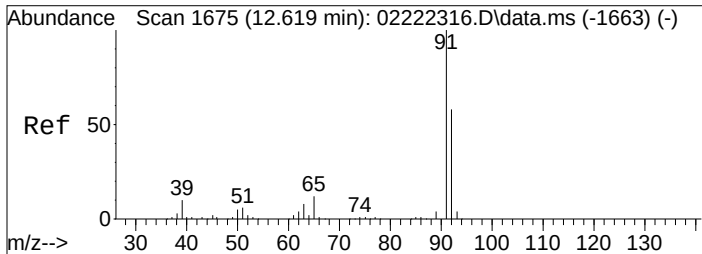
Tgt Ion: 71 Resp: 7996
Ion Ratio Lower Upper
71 100
57 135.9 71.7 111.7#
100 21.1 5.8 45.8



#53
4-Methyl-2-pentanone
Concen: 0.80 ng
RT: 11.39 min Scan# 1459
Delta R.T. 0.000 min
Lab File: 03242327.D
Acq: 24 Mar 2023 22:13

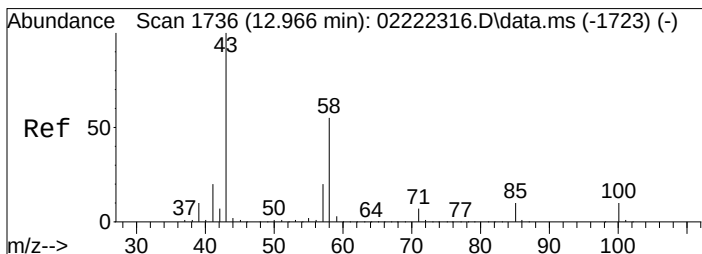
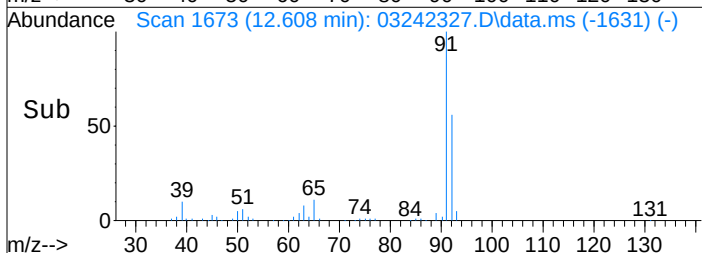
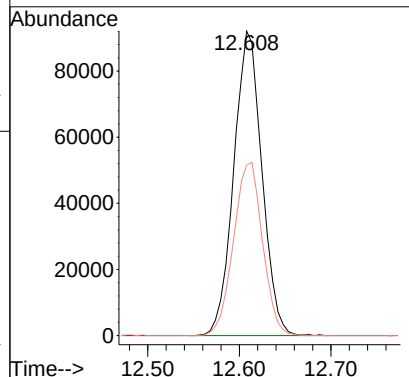
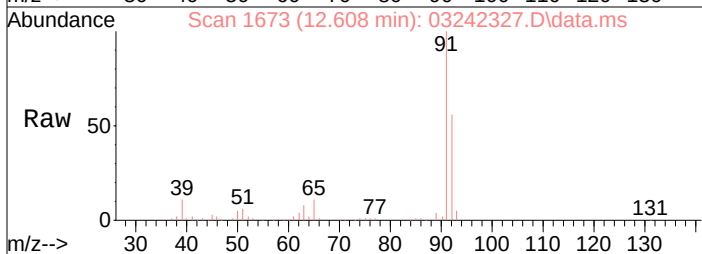
Tgt Ion: 58 Resp: 14166
Ion Ratio Lower Upper
58 100
85 40.5 38.6 58.0
43 250.9 202.2 303.2





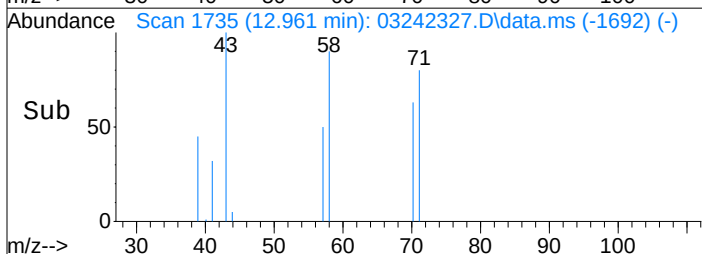
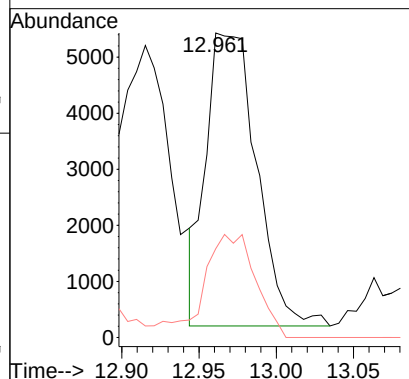
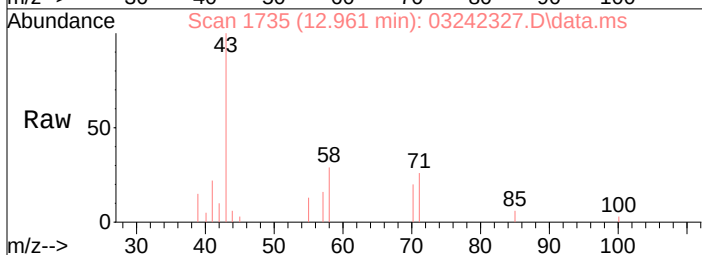
#58
Toluene
Concen: 1.99 ng
RT: 12.61 min Scan# 1673
Delta R.T. -0.011 min
Lab File: 03242327.D
Acq: 24 Mar 2023 22:13

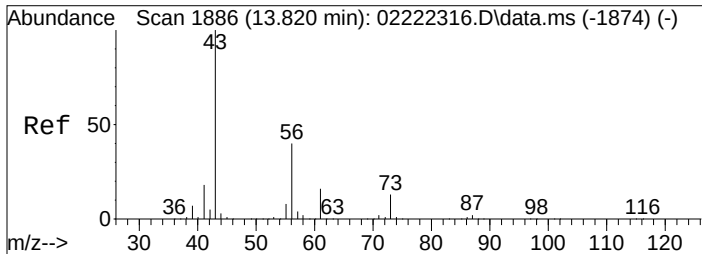
Tgt Ion: 91 Resp: 196502
Ion Ratio Lower Upper
91 100
92 58.7 38.0 78.0



#59
2-Hexanone
Concen: 0.25 ng
RT: 12.96 min Scan# 1735
Delta R.T. -0.006 min
Lab File: 03242327.D
Acq: 24 Mar 2023 22:13

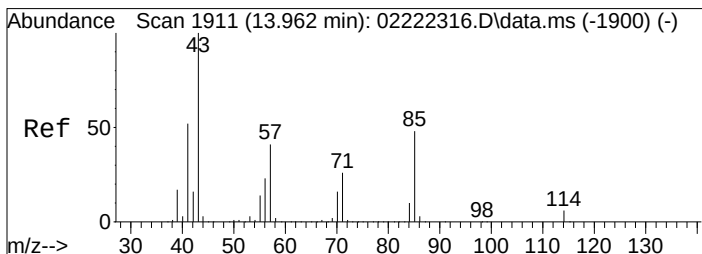
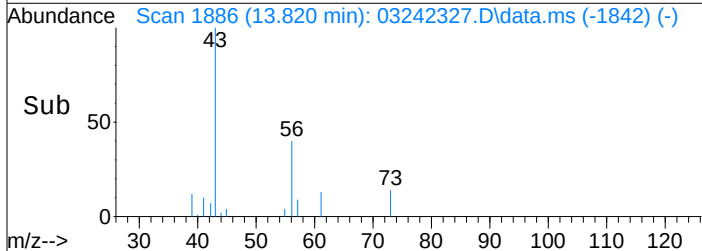
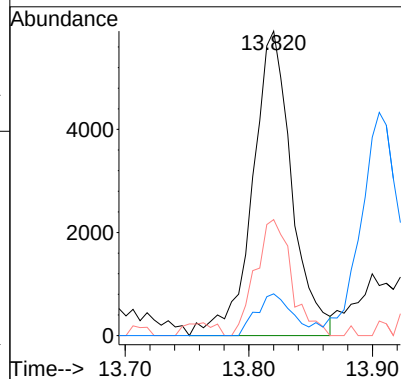
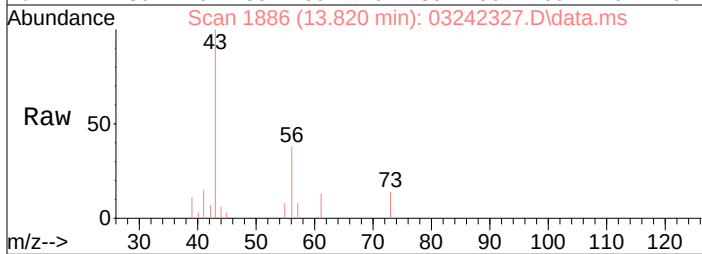
Tgt Ion: 43 Resp: 11931
Ion Ratio Lower Upper
43 100
58 36.2 34.5 74.5





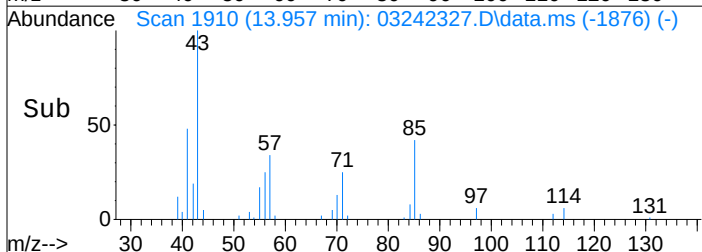
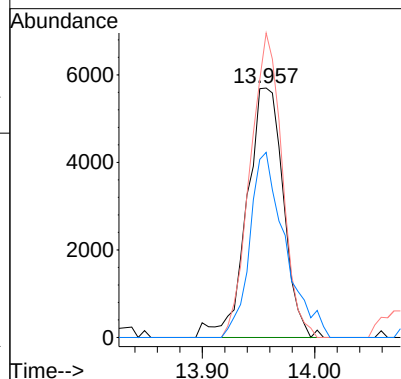
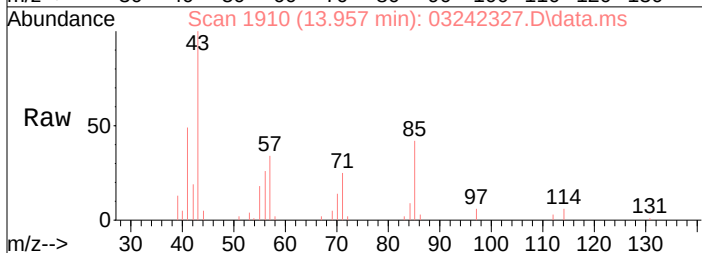
#62
 n-Butyl Acetate
 Concen: 0.24 ng
 RT: 13.82 min Scan# 1886
 Delta R.T. 0.000 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 22:13

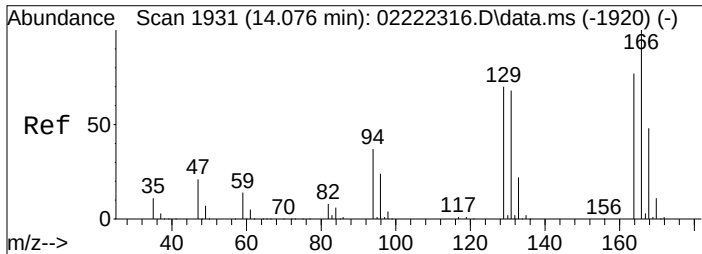
Tgt Ion:	43	Resp:	13021
Ion Ratio		Lower	Upper
43	100		
56	35.1	20.0	60.0
73	12.4	0.0	33.2



#63
 n-Octane
 Concen: 0.66 ng
 RT: 13.96 min Scan# 1910
 Delta R.T. -0.006 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 22:13

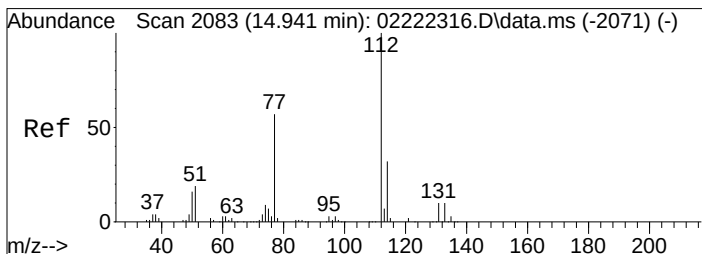
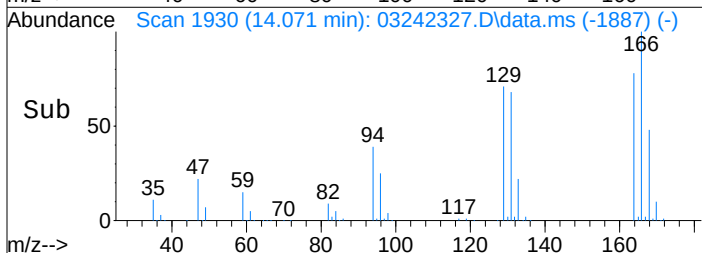
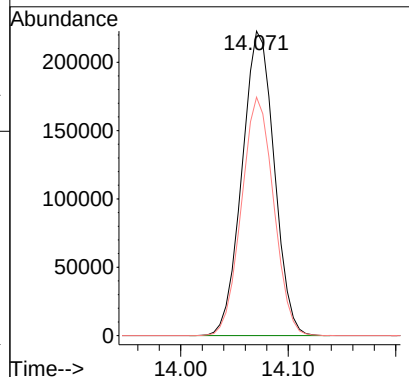
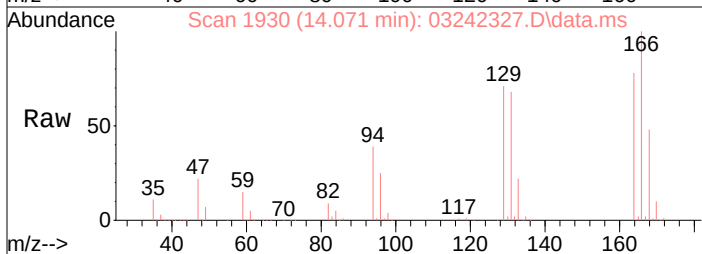
Tgt Ion:	57	Resp:	12878
Ion Ratio		Lower	Upper
57	100		
85	107.0	94.1	141.1
71	72.2	52.6	79.0





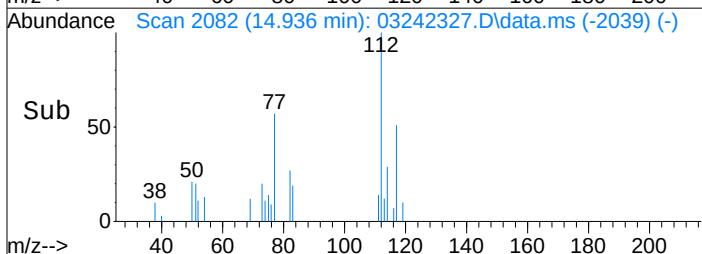
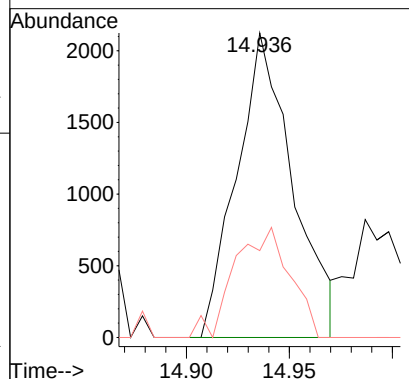
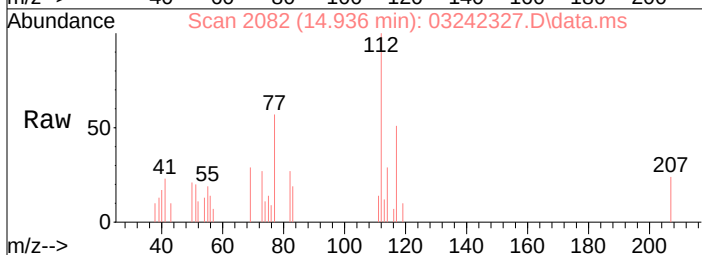
#64
 Tetrachloroethene
 Concen: 15.40 ng
 RT: 14.07 min Scan# 1930
 Delta R.T. -0.006 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 22:13

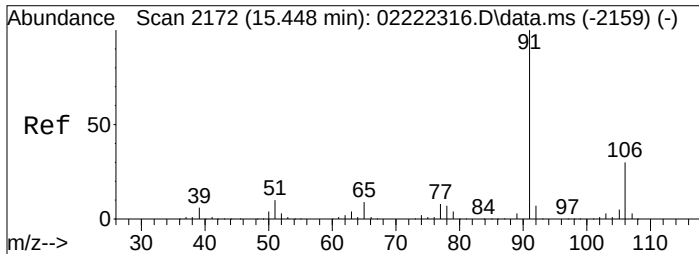
Tgt Ion:	166	Resp:	463750
Ion Ratio	Lower	Upper	
166	100		
164	78.2	57.3	97.3



#65
 Chlorobenzene
 Concen: 0.06 ng
 RT: 14.94 min Scan# 2082
 Delta R.T. -0.006 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 22:13

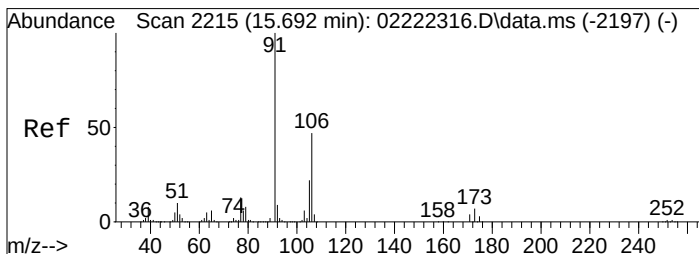
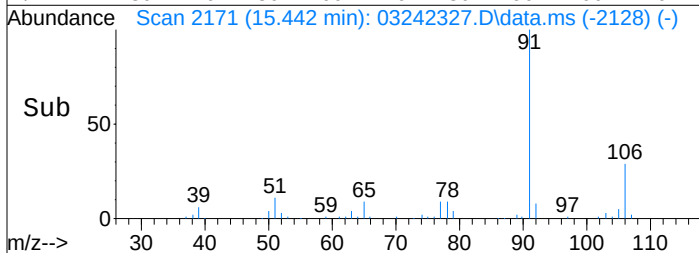
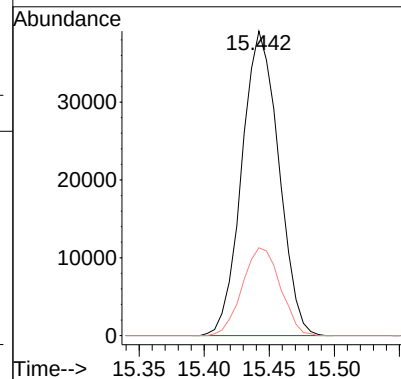
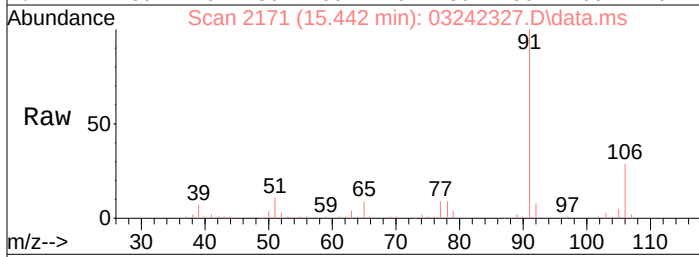
Tgt Ion:	112	Resp:	4020
Ion Ratio	Lower	Upper	
112	100		
114	35.8	12.1	52.1





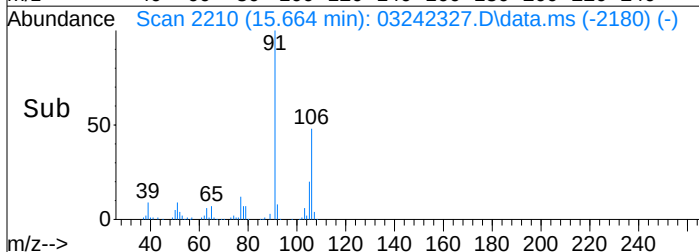
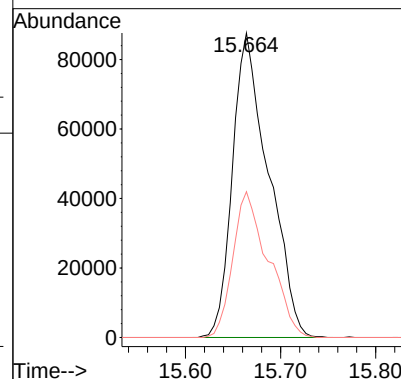
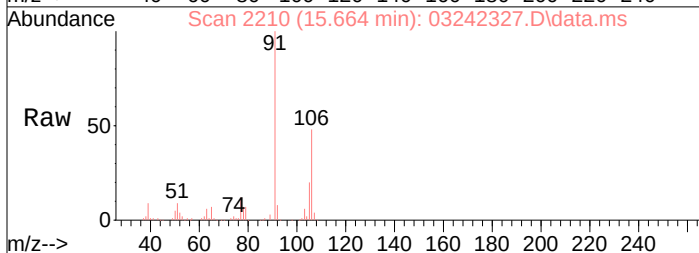
#66
Ethylbenzene
Concen: 0.65 ng
RT: 15.44 min Scan# 2171
Delta R.T. -0.006 min
Lab File: 03242327.D
Acq: 24 Mar 2023 22:13

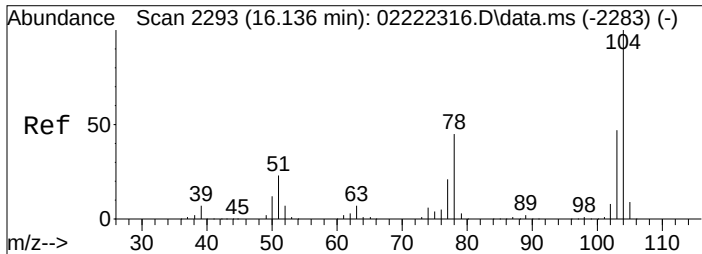
Tgt Ion: 91 Resp: 77079
Ion Ratio Lower Upper
91 100
106 29.7 10.4 50.4



#67
m- & p-Xylenes
Concen: 2.43 ng
RT: 15.66 min Scan# 2210
Delta R.T. -0.028 min
Lab File: 03242327.D
Acq: 24 Mar 2023 22:13

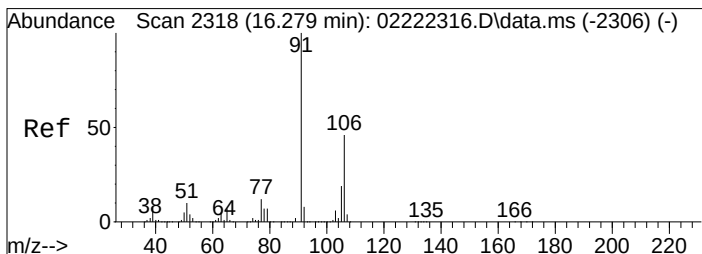
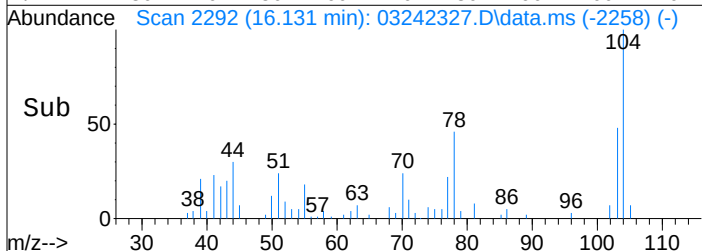
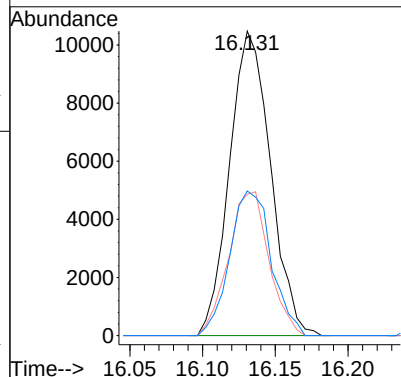
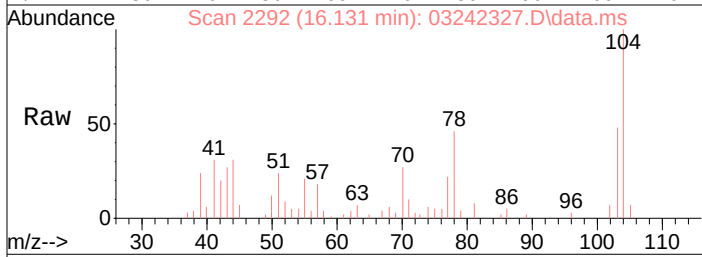
Tgt Ion: 91 Resp: 230906
Ion Ratio Lower Upper
91 100
106 47.0 26.2 66.2





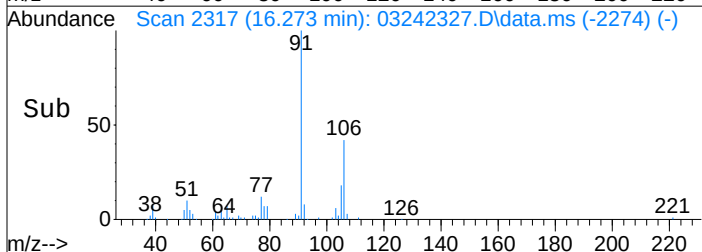
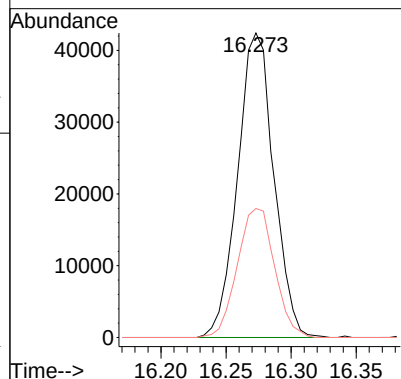
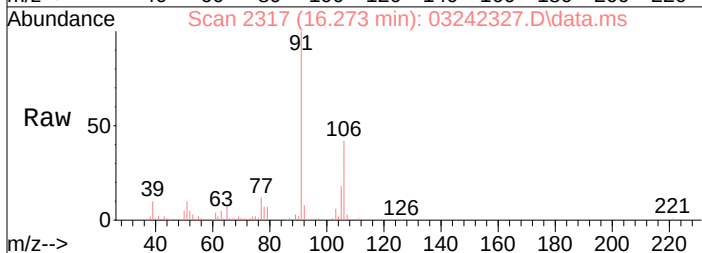
#69
Styrene
Concen: 0.31 ng
RT: 16.13 min Scan# 2292
Delta R.T. -0.006 min
Lab File: 03242327.D
Acq: 24 Mar 2023 22:13

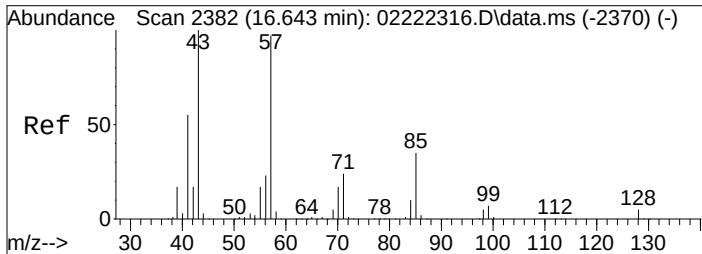
Tgt Ion: 104	Resp: 20519
Ion Ratio	Lower Upper
104 100	
78 46.7	24.7 64.7
103 48.2	27.8 67.8



#70
o-Xylene
Concen: 0.90 ng
RT: 16.27 min Scan# 2317
Delta R.T. -0.006 min
Lab File: 03242327.D
Acq: 24 Mar 2023 22:13

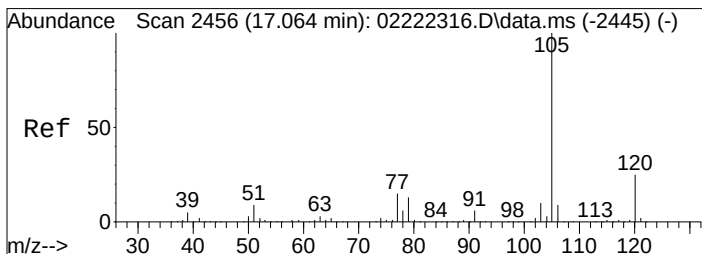
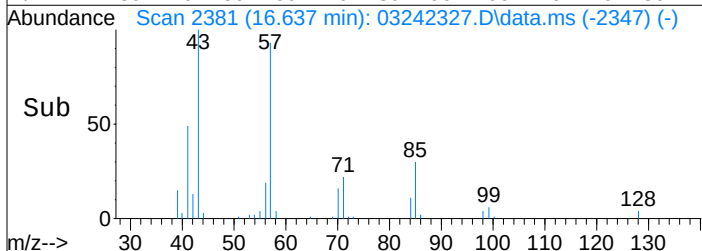
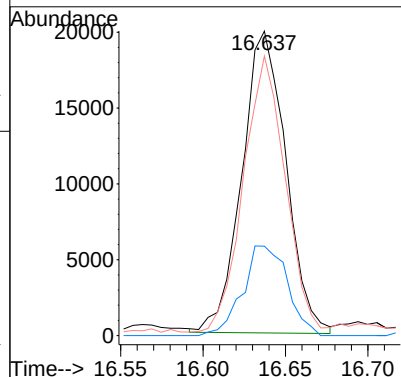
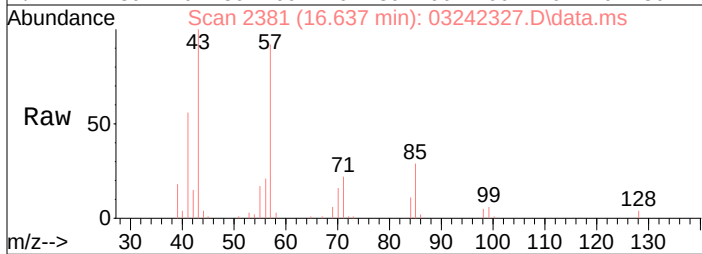
Tgt Ion: 91	Resp: 81884
Ion Ratio	Lower Upper
91 100	
106 43.7	25.4 65.4





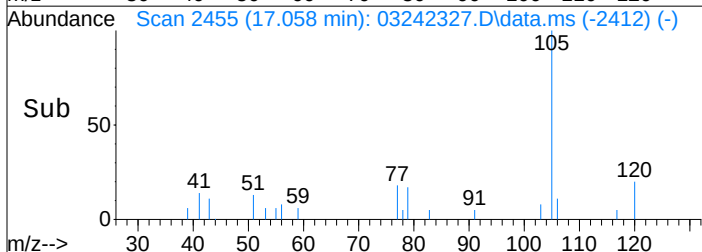
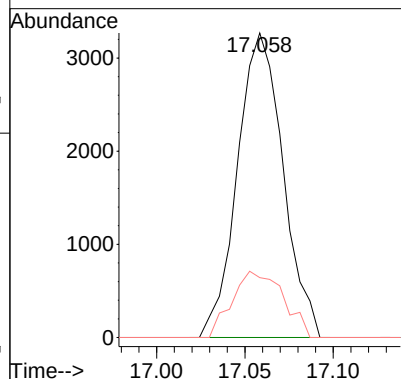
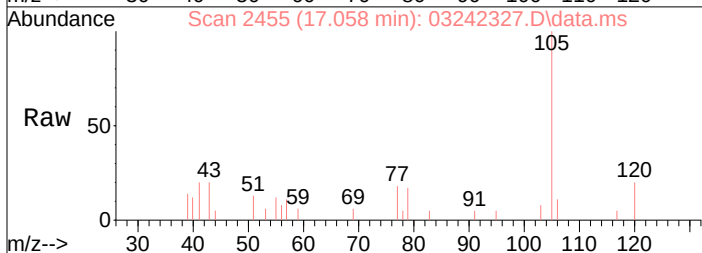
#71
n-Nonane
Concen: 0.84 ng
RT: 16.64 min Scan# 2381
Delta R.T. -0.006 min
Lab File: 03242327.D
Acq: 24 Mar 2023 22:13

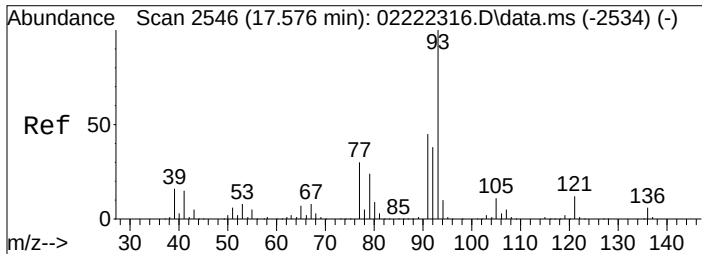
Tgt Ion:	43	Resp:	36963
Ion Ratio		Lower	Upper
43	100		
57	86.7	74.2	114.2
85	30.2	14.2	54.2



#74
Cumene
Concen: 0.05 ng
RT: 17.06 min Scan# 2455
Delta R.T. -0.006 min
Lab File: 03242327.D
Acq: 24 Mar 2023 22:13

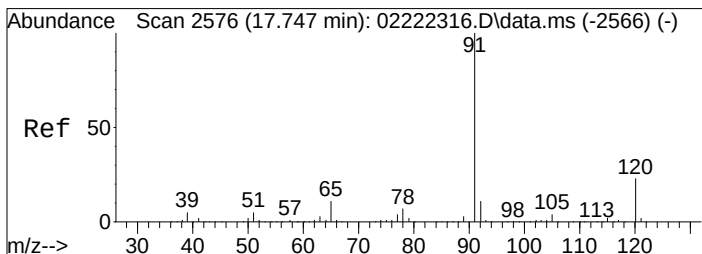
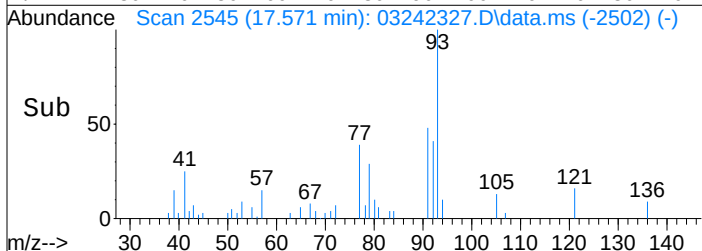
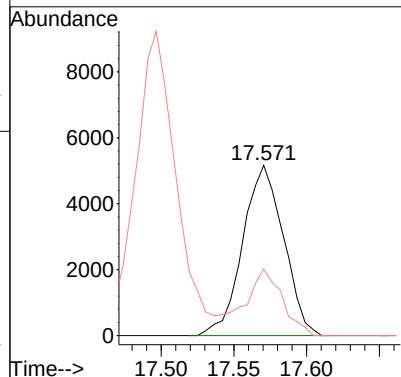
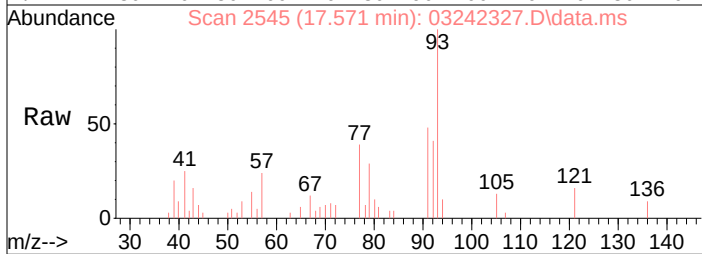
Tgt Ion:	105	Resp:	5868
Ion Ratio		Lower	Upper
105	100		
120	24.3	5.2	45.2





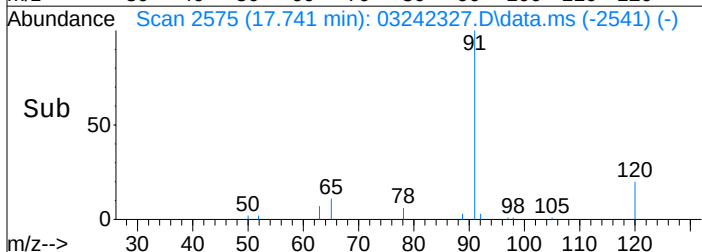
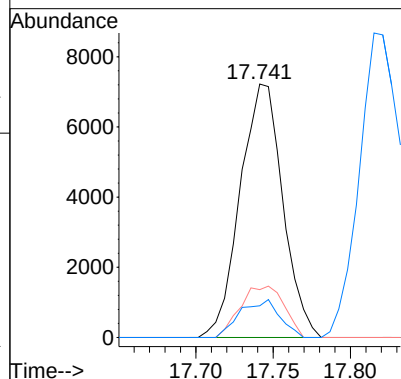
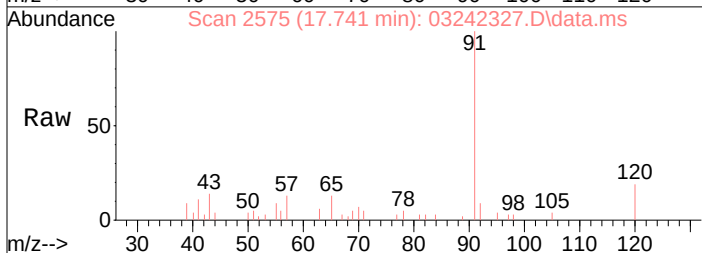
#75
 alpha-Pinene
 Concen: 0.20 ng
 RT: 17.57 min Scan# 2545
 Delta R.T. -0.006 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 22:13

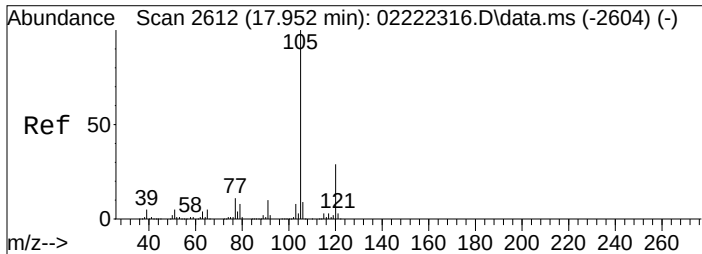
Tgt Ion:	93	Resp:	10093
Ion Ratio		Lower	Upper
93	100		
77	35.0	11.1	51.1



#76
 n-Propylbenzene
 Concen: 0.10 ng
 RT: 17.74 min Scan# 2575
 Delta R.T. -0.006 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 22:13

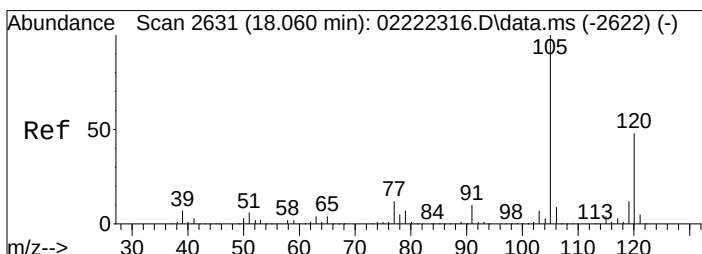
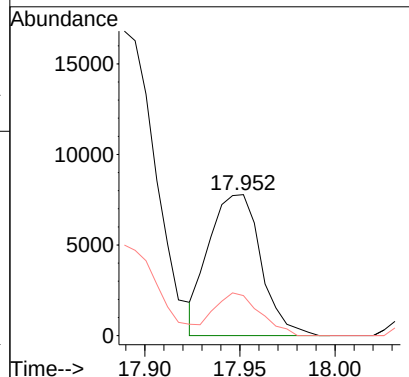
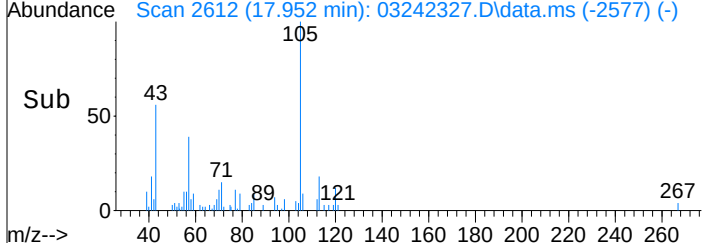
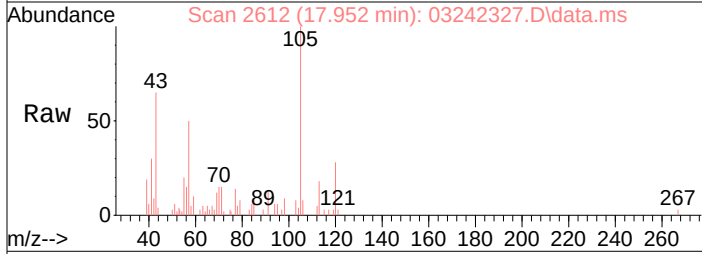
Tgt Ion:	91	Resp:	13893
Ion Ratio		Lower	Upper
91	100		
120	20.9	2.7	42.7
65	13.9	0.0	30.7





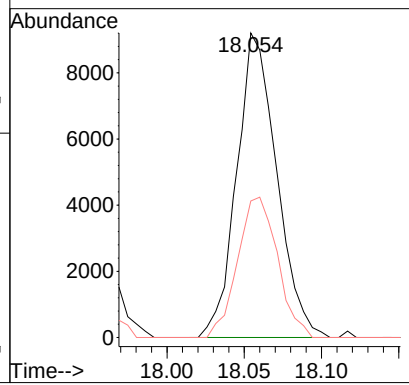
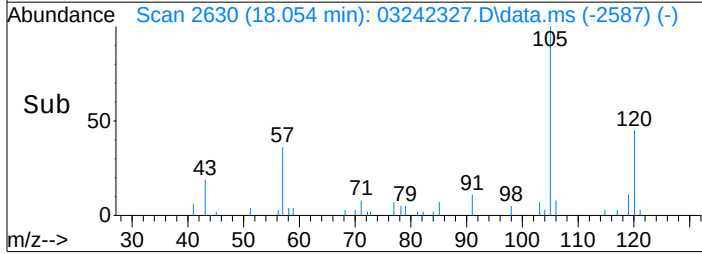
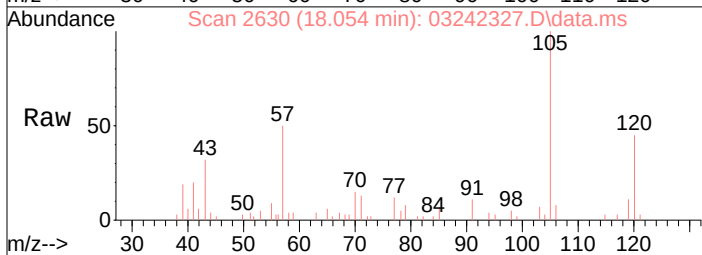
#78
 4-Ethyltoluene
 Concen: 0.14 ng
 RT: 17.95 min Scan# 2612
 Delta R.T. 0.000 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 22:13

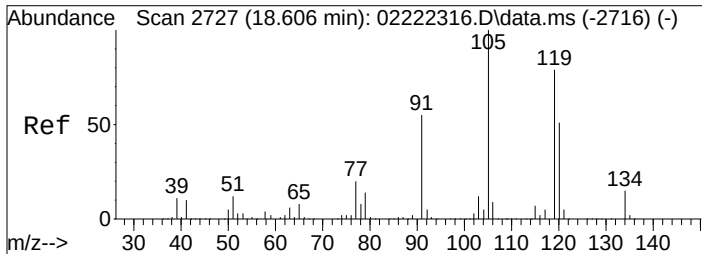
Tgt Ion:	105	Resp:	14839
Ion Ratio		Lower	Upper
105	100		
120	25.9	9.1	49.1



#79
 1,3,5-Trimethylbenzene
 Concen: 0.18 ng
 RT: 18.05 min Scan# 2630
 Delta R.T. -0.006 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 22:13

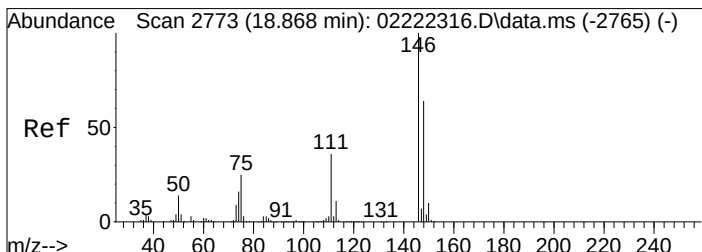
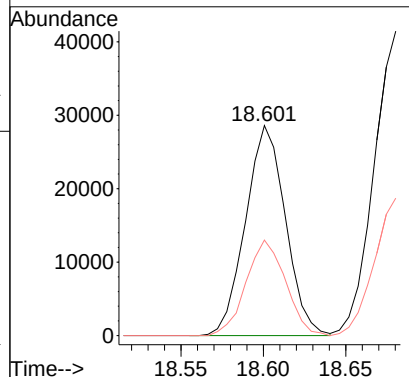
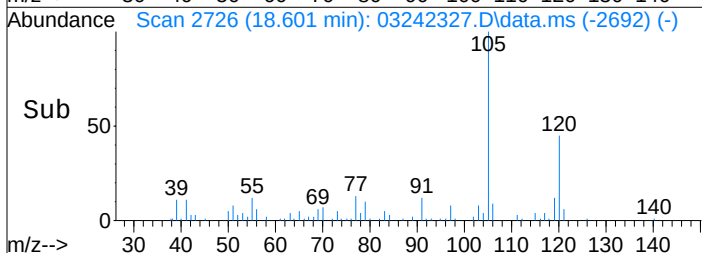
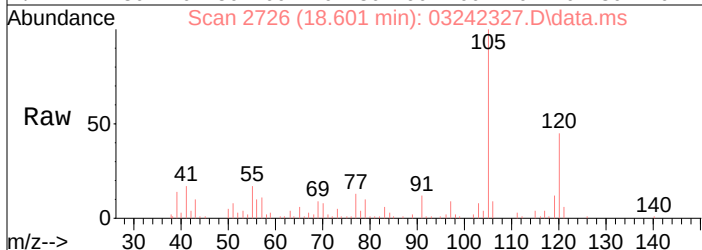
Tgt Ion:	105	Resp:	16604
Ion Ratio		Lower	Upper
105	100		
120	46.0	28.4	68.4





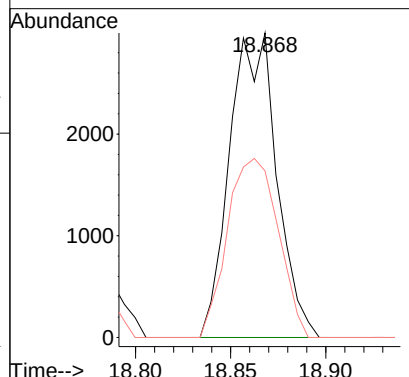
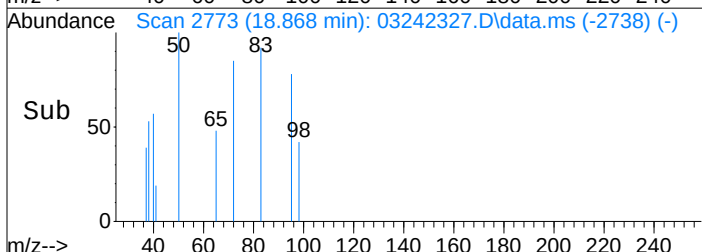
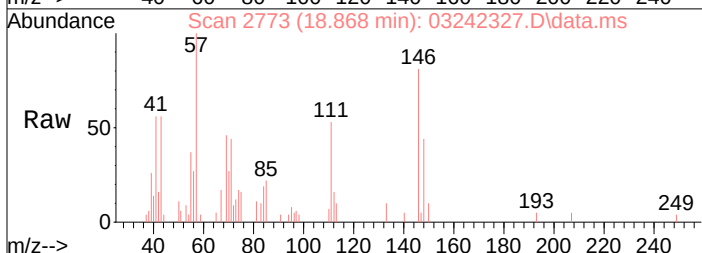
#82
 1,2,4-Trimethylbenzene
 Concen: 0.52 ng
 RT: 18.60 min Scan# 2726
 Delta R.T. -0.006 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 22:13

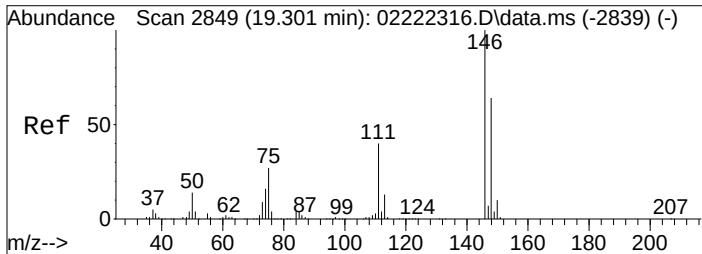
Tgt Ion:	105	Resp:	48292
Ion Ratio		Lower	Upper
105	100		
120	44.8	32.8	72.8



#86
 1,4-Dichlorobenzene
 Concen: 0.09 ng
 RT: 18.87 min Scan# 2773
 Delta R.T. 0.000 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 22:13

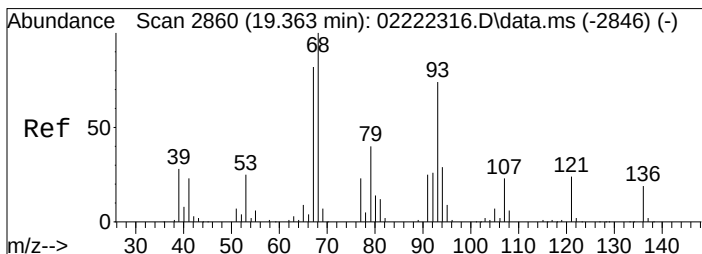
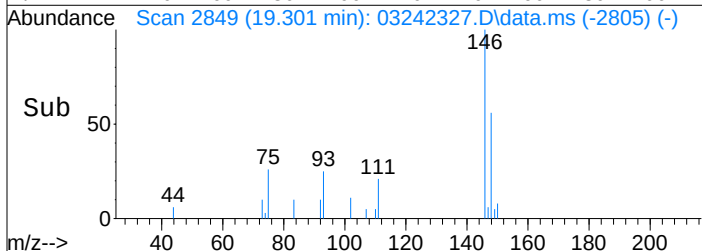
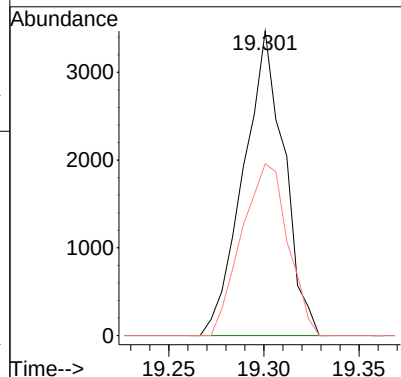
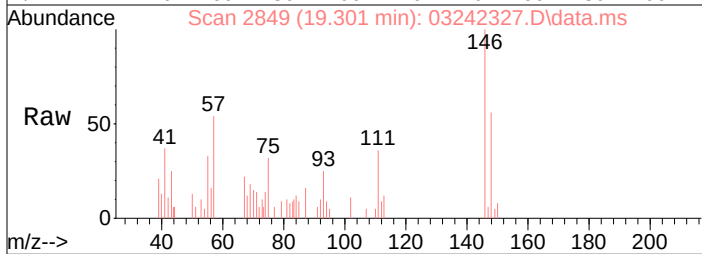
Tgt Ion:	146	Resp:	5131
Ion Ratio		Lower	Upper
146	100		
148	63.6	44.7	84.7





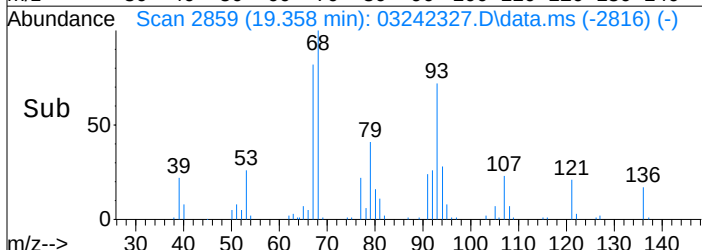
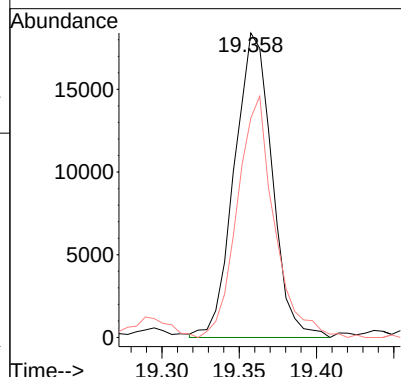
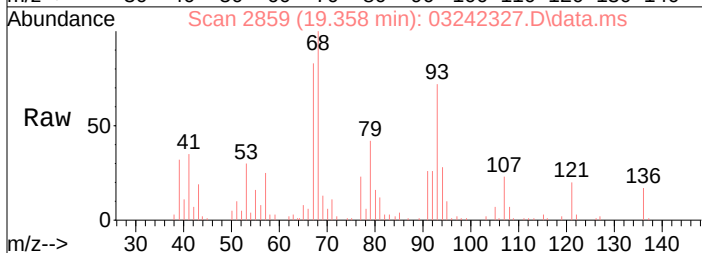
#90
 1,2-Dichlorobenzene
 Concen: 0.09 ng
 RT: 19.30 min Scan# 2849
 Delta R.T. 0.000 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 22:13

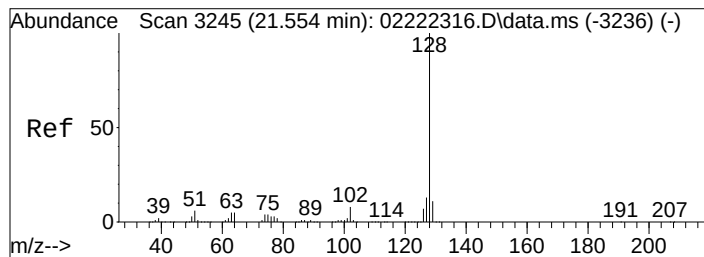
Tgt Ion	Ratio	Resp	Lower	Upper
146	100	5168		
148	64.2	44.4	84.4	



#91
 d-Limonene
 Concen: 1.00 ng
 RT: 19.36 min Scan# 2859
 Delta R.T. -0.006 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 22:13

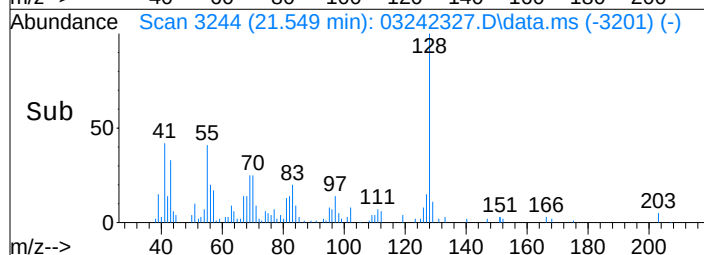
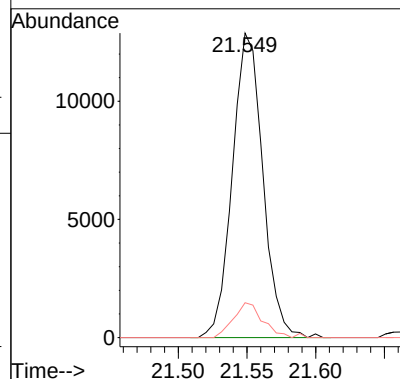
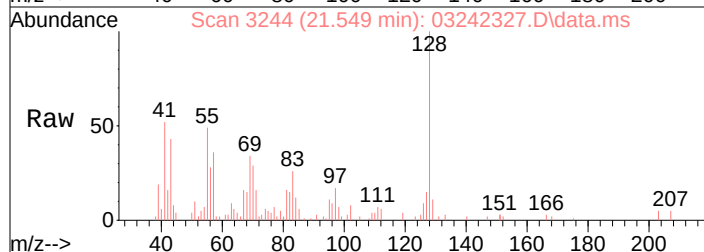
Tgt Ion	Ratio	Resp	Lower	Upper
68	100	31259		
93	77.7	54.8	94.8	





#95
 Naphthalene
 Concen: 0.20 ng
 RT: 21.55 min Scan# 3244
 Delta R.T. -0.006 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 22:13

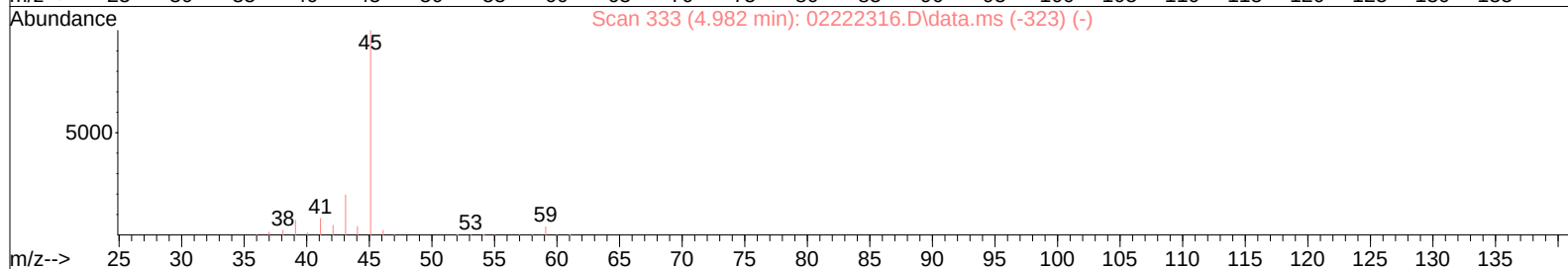
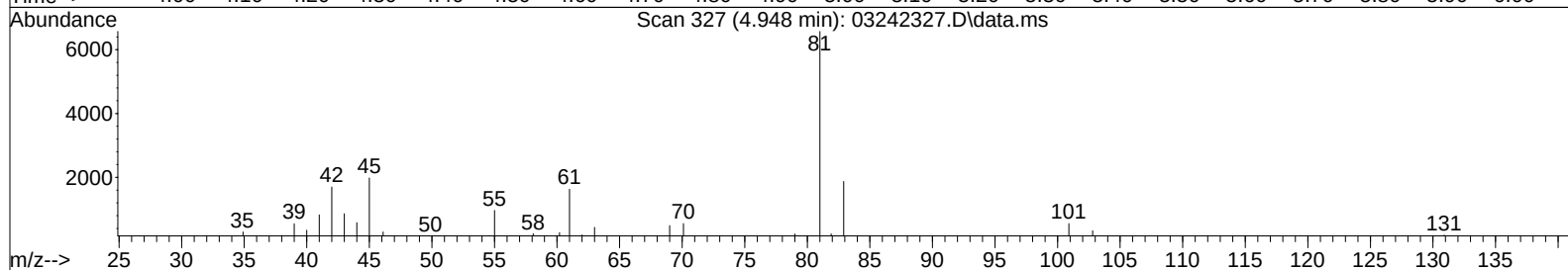
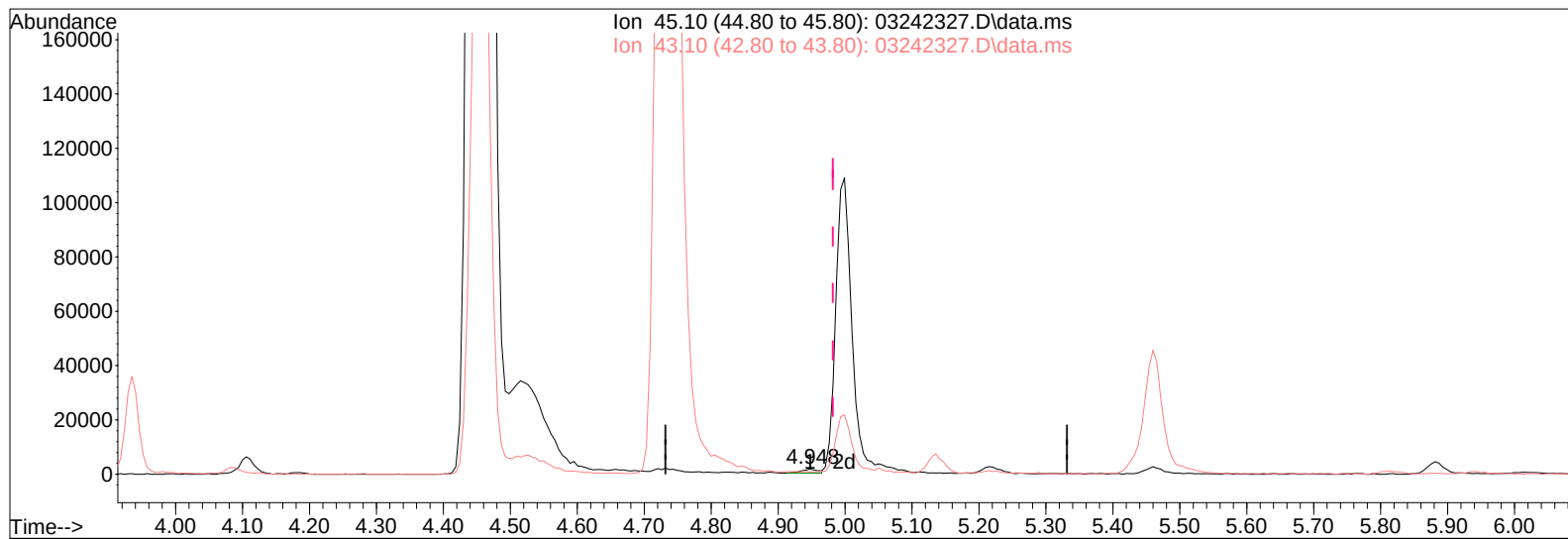
Tgt Ion:128 Resp: 19847
 Ion Ratio Lower Upper
 128 100
 129 11.2 0.0 30.9



Data File : I:\MS13\DATA\2023_03\24\03242327.D
Acq On : 24 Mar 2023 22:13
Sample : P2301250-022 (1000mL)
Misc : S35-01202301

Vial: 11
Operator: TZ
Inst : MS13

Quant Time: Mar 25 06:49:55 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03242327.D\data.ms

(15) 2-Propanol (Isopropanol) (T)

4.948min (-0.034) 0.04ng

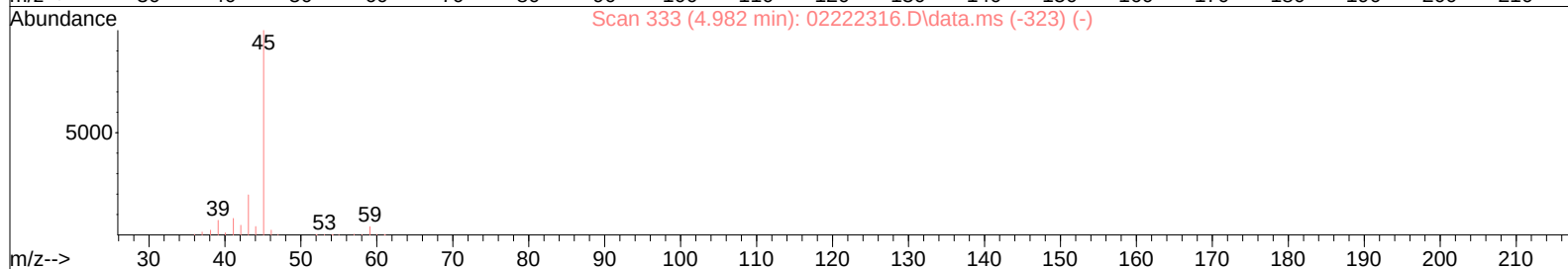
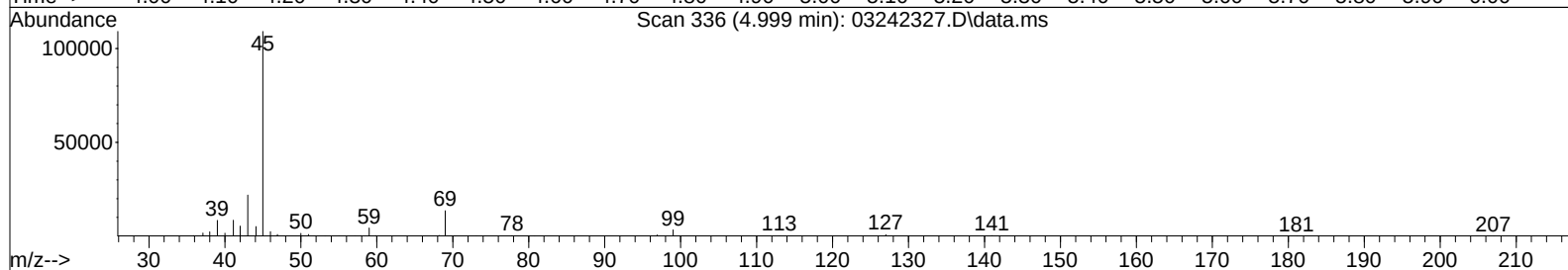
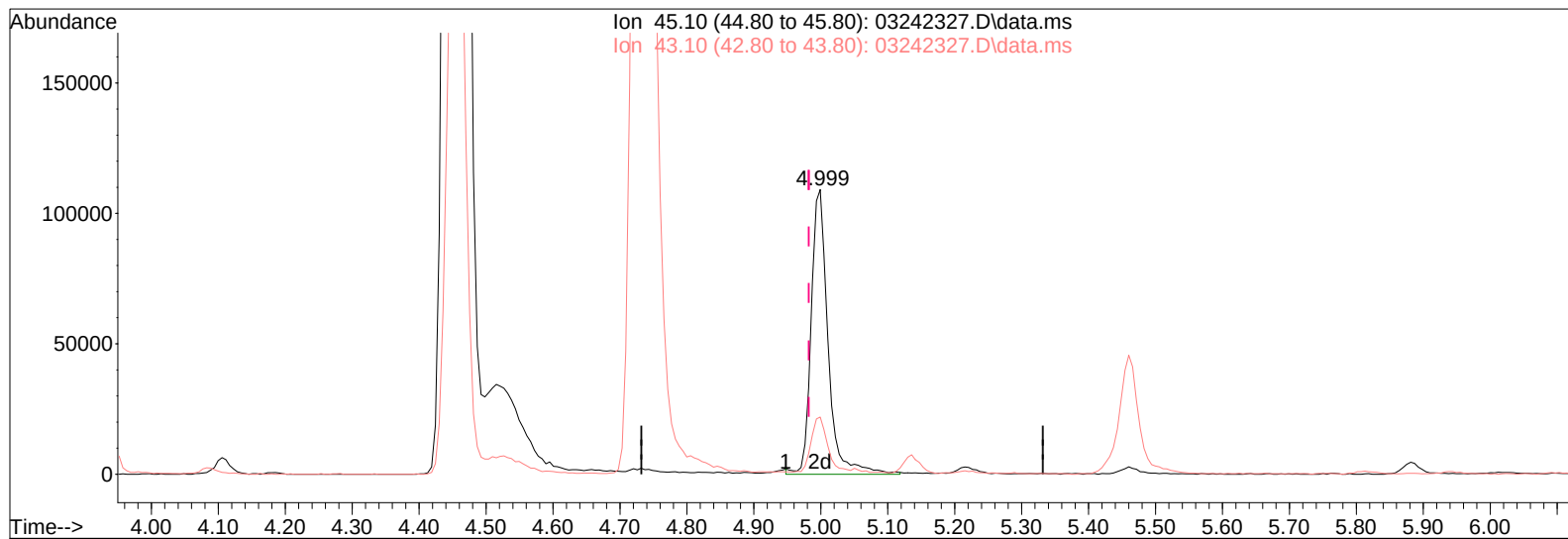
response 2621

Ion	Exp%	Act%
45.10	100	100
43.10	19.70	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File : I:\MS13\DATA\2023_03\24\03242327.D
Acq On : 24 Mar 2023 22:13
Sample : P2301250-022 (1000mL)
Misc : S35-01202301

Vial: 11
Operator: TZ
Inst : MS13

Quant Time: Mar 25 06:49:55 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03242327.D\data.ms

(15) 2-Propanol (Isopropanol) (T)

4.999min (+0.017) 3.26ng m

response 191420

Ion	Exp%	Act%
45.10	100	100
43.10	19.70	20.93
0.00	0.00	0.00
0.00	0.00	0.00

MP

TZ 3/27/23

3/28/23

Data File : I:\MS13\DATA\2023_03\24\03242327.D
 Acq On : 24 Mar 2023 22:13
 Sample : P2301250-022 (1000mL)
 Misc : S35-01202301

Vial: 11
 Operator: TZ
 Inst : MS13

TZ 3/28/23

Quant Time: Mar 28 10:02:53 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.32	130	240976	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	9.38	114	1054090	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	14.88	54	202123	12.500	ng	0.00

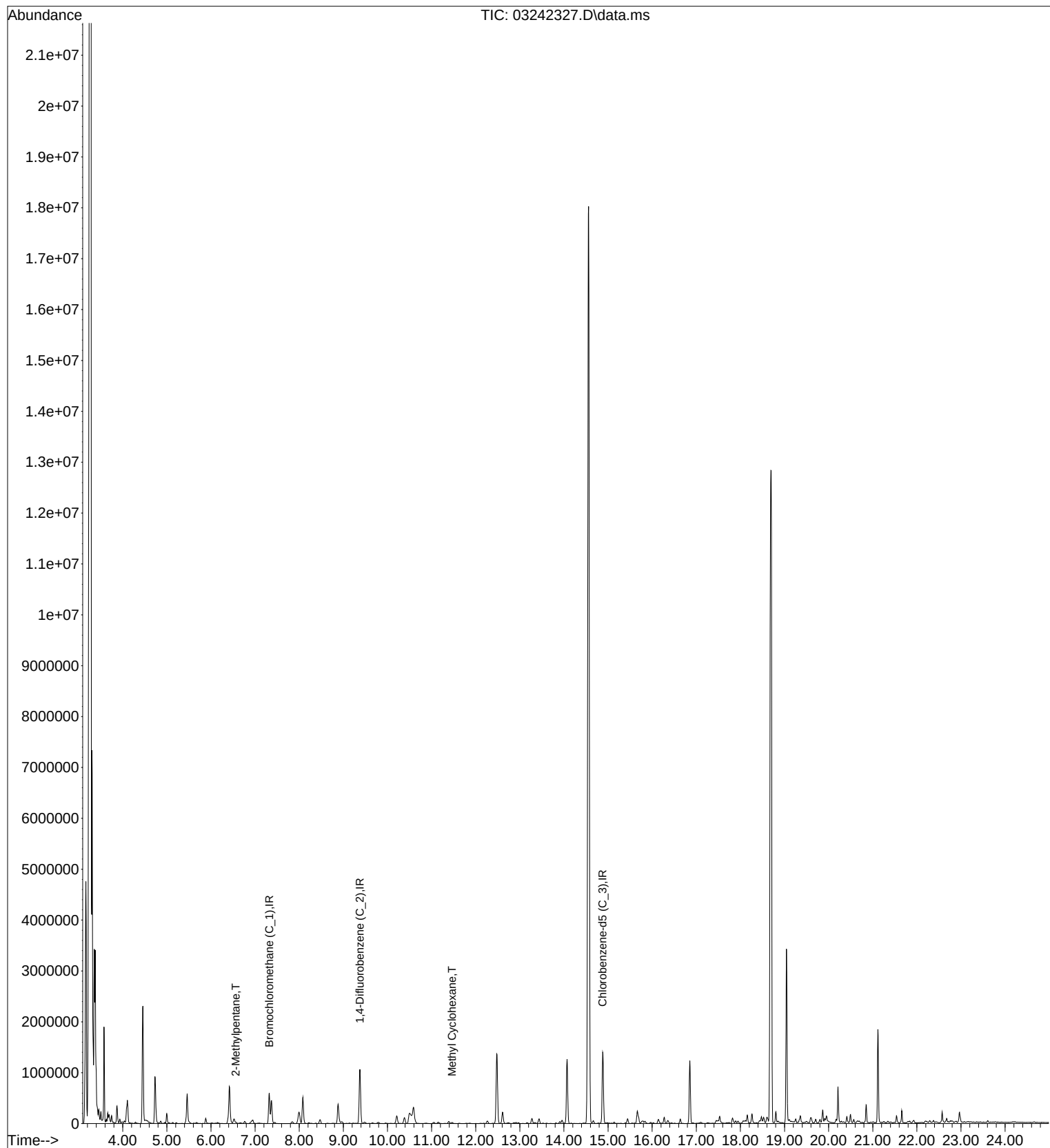
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	0.00	85	0	N.D.	d	
3) 1,1,1,2-Tetrafluoroeth...	0.00	83	0	N.D.	d	
4) 1,1-Difluoroethane	0.00	65	0	N.D.	d	
5) Chlorodifluoromethane ...	0.00	67	0	N.D.	d	
6) 1-Chloro-1,1-Difluoroe...	3.57	65	73	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	4.66	83	56	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	0.00	43	0	N.D.	d	
12) 2-Methylpentane	6.56	71	4053	0.241	ng	# 1
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	8.83	75	179	N.D.		
15) Thiophene	9.13	84	963	N.D.		
17) 2,3-Dimethylpentane	9.58	56	2081	N.D.		
18) Dibromomethane	9.86	174	232	N.D.		
20) Methyl Cyclohexane	11.46	55	8566	0.255	ng	# 80
21) 1,3-Dichloropropane	12.61	76	998	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	15.24	91	387	N.D.		
24) 1,2,3-Trichloropropane	16.45	75	65	N.D.		
25) Bromobenzene	17.06	77	1001	N.D.		
26) 2-Chlorotoluene	0.00	91	0	N.D.	d	
27) 4-Chlorotoluene	0.00	91	0	N.D.	d	
28) Indane	19.39	117	4935	N.D.		
29) Indene	19.51	115	1613	N.D.		
30) 1,2,4,5-Tetramethylben...	20.64	119	7244	N.D.		
31) 1,2,3,4-Tetramethylben...	20.70	119	9373	N.D.		
32) 1,2,3,5-Tetramethylben...	0.00	119	0	N.D.	d	
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242327.D
Acq On : 24 Mar 2023 22:13
Sample : P2301250-022 (1000mL)
Misc : S35-01202301

Vial: 11
Operator: TZ
Inst : MS13

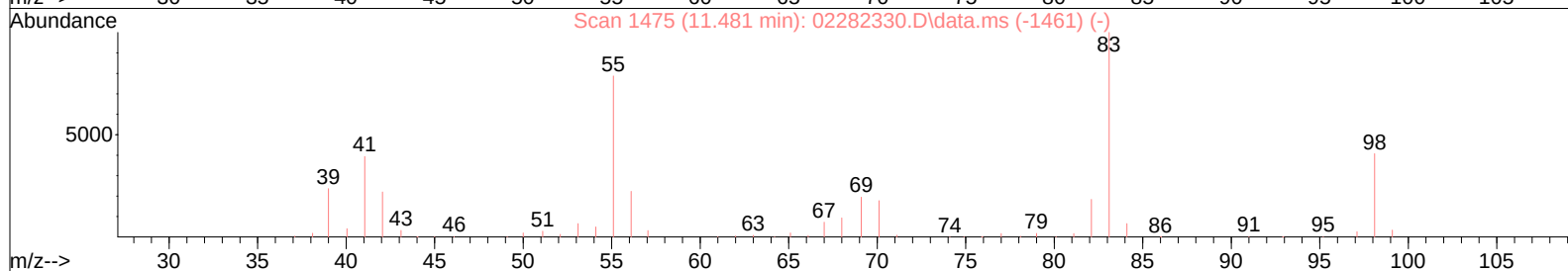
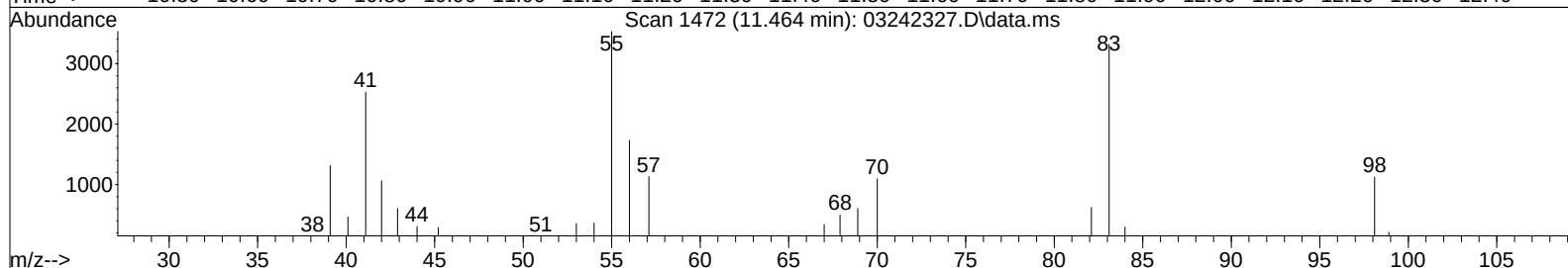
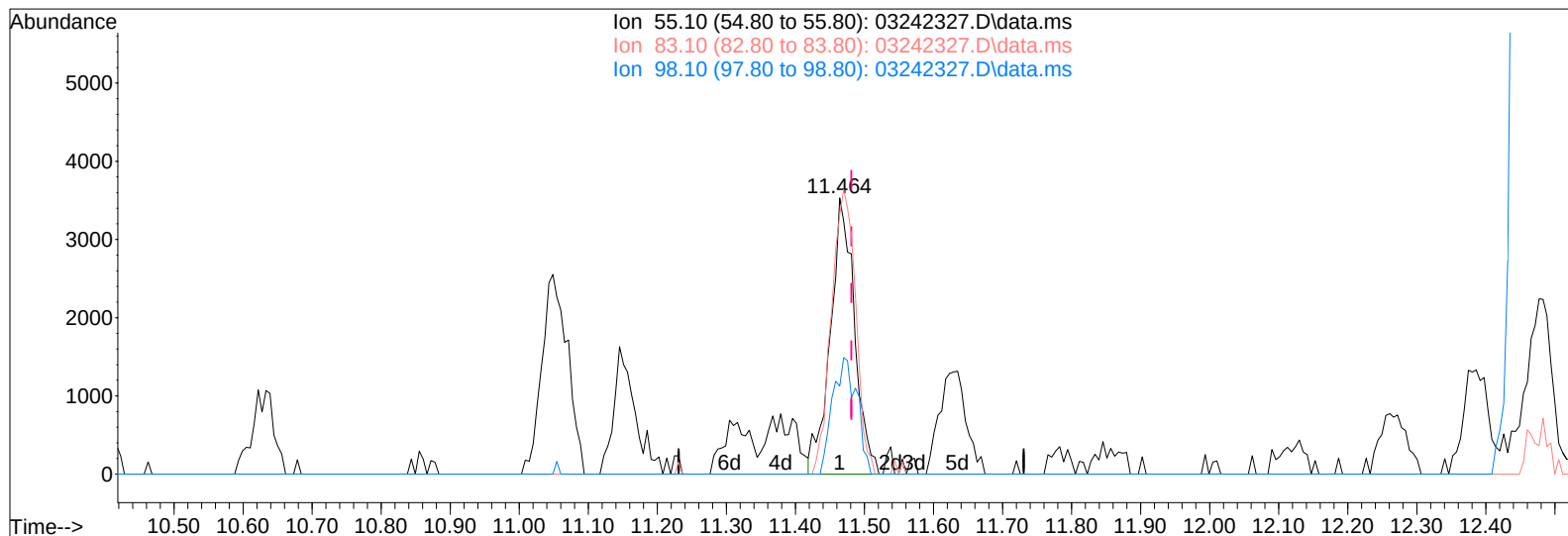
Quant Time: Mar 28 10:02:53 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242327.D
Acq On : 24 Mar 2023 22:13
Sample : P2301250-022 (1000mL)
Misc : S35-01202301

Vial: 11
Operator: TZ
Inst : MS13

Quant Time: Mar 28 10:02:53 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03242327.D\data.ms

(20) Methyl Cyclohexane (T)

11.464min (-0.017) 0.25ng

response 8566

Ion	Exp%	Act%
55.10	100	100
83.10	128.30	103.56
98.10	53.10	42.34#
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG34-1

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-023

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02447

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.83 Final Pressure (psig): 3.94

Container Dilution Factor: 1.57

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.3	0.83	0.14	0.46	0.17	0.028	
74-87-3	Chloromethane	ND	0.33	0.14	ND	0.16	0.065	
75-01-4	Vinyl Chloride	ND	0.17	0.089	ND	0.068	0.035	
74-83-9	Bromomethane	ND	0.33	0.12	ND	0.085	0.030	
75-00-3	Chloroethane	ND	0.33	0.10	ND	0.12	0.039	
67-64-1	Acetone	430	8.3	1.9	180	3.5	0.79	
75-69-4	Trichlorofluoromethane	1.1	0.82	0.13	0.20	0.15	0.023	
75-35-4	1,1-Dichloroethene	ND	0.17	0.12	ND	0.044	0.029	
75-09-2	Methylene Chloride	9.2	0.83	0.24	2.7	0.24	0.068	
76-13-1	Trichlorotrifluoroethane	0.49	0.85	0.12	0.063	0.11	0.016	J
75-15-0	Carbon Disulfide	0.77	1.7	0.25	0.25	0.54	0.081	J
156-60-5	trans-1,2-Dichloroethene	ND	0.17	0.12	ND	0.044	0.029	
75-34-3	1,1-Dichloroethane	ND	0.17	0.12	ND	0.043	0.030	
1634-04-4	Methyl tert-Butyl Ether	ND	0.85	0.099	ND	0.24	0.027	
78-93-3	2-Butanone (MEK)	11	1.6	0.17	3.8	0.55	0.059	
156-59-2	cis-1,2-Dichloroethene	ND	0.17	0.12	ND	0.044	0.030	
67-66-3	Chloroform	0.37	0.17	0.11	0.076	0.035	0.023	
107-06-2	1,2-Dichloroethane	ND	0.17	0.093	ND	0.043	0.023	
71-55-6	1,1,1-Trichloroethane	1.8	0.17	0.10	0.33	0.032	0.019	
71-43-2	Benzene	0.76	0.17	0.12	0.24	0.054	0.038	
56-23-5	Carbon Tetrachloride	0.49	0.17	0.12	0.078	0.027	0.018	
110-82-7	Cyclohexane	0.55	1.6	0.24	0.16	0.48	0.068	J
78-87-5	1,2-Dichloropropane	ND	0.17	0.10	ND	0.037	0.022	
75-27-4	Bromodichloromethane	ND	0.17	0.12	ND	0.026	0.018	
79-01-6	Trichloroethene	2.2	0.17	0.11	0.40	0.032	0.021	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG34-1

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-023

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02447

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.83 Final Pressure (psig): 3.94

Container Dilution Factor: 1.57

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.85	0.13	ND	0.19	0.029	
108-10-1	4-Methyl-2-pentanone	3.7	1.7	0.11	0.91	0.42	0.028	
10061-02-6	trans-1,3-Dichloropropene	ND	0.80	0.17	ND	0.18	0.038	
79-00-5	1,1,2-Trichloroethane	ND	0.17	0.085	ND	0.032	0.016	
108-88-3	Toluene	4.0	0.83	0.10	1.1	0.22	0.027	
591-78-6	2-Hexanone	3.5	1.7	0.10	0.86	0.42	0.025	
124-48-1	Dibromochloromethane	ND	0.17	0.11	ND	0.020	0.013	
106-93-4	1,2-Dibromoethane	ND	0.17	0.097	ND	0.022	0.013	
127-18-4	Tetrachloroethene	6.0	0.17	0.11	0.89	0.025	0.016	
108-90-7	Chlorobenzene	1.3	0.83	0.11	0.29	0.18	0.024	
100-41-4	Ethylbenzene	2.4	0.83	0.12	0.55	0.19	0.027	
179601-23-1	m,p-Xylenes	17	1.7	0.22	3.9	0.40	0.051	
75-25-2	Bromoform	ND	0.85	0.17	ND	0.082	0.017	
100-42-5	Styrene	0.63	0.83	0.14	0.15	0.20	0.032	J
95-47-6	o-Xylene	4.6	0.83	0.12	1.1	0.19	0.028	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.17	0.12	ND	0.025	0.017	
98-82-8	Cumene	0.17	0.85	0.12	0.034	0.17	0.025	J
541-73-1	1,3-Dichlorobenzene	ND	0.83	0.13	ND	0.14	0.021	
106-46-7	1,4-Dichlorobenzene	0.17	0.83	0.13	0.029	0.14	0.021	J
95-50-1	1,2-Dichlorobenzene	0.16	0.85	0.12	0.027	0.14	0.021	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.7	0.16	ND	0.18	0.016	
120-82-1	1,2,4-Trichlorobenzene	ND	1.7	0.20	ND	0.23	0.028	
79-20-9	Methyl Acetate	ND	0.79	0.38	ND	0.26	0.12	X
108-87-2	Methylcyclohexane	2.0	0.79	0.41	0.49	0.20	0.10	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS13\DATA\2023_03\24\03242328.D
 Acq On : 24 Mar 2023 22:50
 Sample : P2301250-023 (1000mL)
 Misc : S35-01202301

Vial: 12
 Operator: TZ
 Inst : MS13

Tz 3/27/23

Quant Time: Mar 27 13:56:25 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.34	130	248856	12.500	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	9.38	114	1089688	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	203040	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.10	65	422242	12.786	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.32%
57) Toluene-d8 (SS2)	12.48	98	1228027	11.761	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.08%
73) Bromofluorobenzene (SS3)	16.85	174	457272	11.957	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	95.68%

Target Compounds

						Qvalue
2) Propene	3.39	42	64717	2.600	ng	# 80
3) Dichlorodifluoromethan...	3.46	85	66357	1.456	ng	99
4) Chloromethane	3.60	50	1162	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	3.71	135	1392	0.060	ng	99
6) Vinyl Chloride	3.78	62	468	N.D.		
7) 1,3-Butadiene	3.86	54	17556	0.761	ng	# 1
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	4.25	64	325	N.D.		
10) Ethanol	4.48	45	11198216	633.600	ng	99
11) Acetonitrile	4.58	41	11211	0.244	ng	88
12) Acrolein	4.65	56	3010	0.206	ng	91
13) Acetone	4.76	58	4160951	275.851	ng	97
14) Trichlorofluoromethane	4.85	101	29207	0.712	ng	99
15) 2-Propanol (Isopropanol)	5.02	45	1010070	16.587	ng	99
16) Acrylonitrile	0.00	53	0	N.D.	d	
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.49	84	130005	5.879	ng	93
20) 3-Chloro-1-propene (Al...	5.48	41	398360	11.282	ng	# 39
21) Trichlorotrifluoroethane	5.68	151	6675	0.309	ng	99
22) Carbon Disulfide	5.69	76	42830	0.489	ng	100
23) trans-1,2-Dichloroethene	6.18	61	365	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.	d	
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.	d	
26) Vinyl Acetate	6.54	86	3123	0.766	ng	# 4
27) 2-Butanone (MEK)	6.77	72	96617	7.215	ng	98
28) cis-1,2-Dichloroethene	7.19	61	396	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	7.38	61	48684	5.529	ng	94
31) n-Hexane	7.38	57	45414	1.340	ng	99
32) Chloroform	7.46	83	9500	0.237	ng	98
34) Tetrahydrofuran (THF)	7.86	72	2475	0.180	ng	# 1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.21	62	543	N.D.		
38) 1,1,1-Trichloroethane	8.49	97	40720	1.129	ng	99
39) Isopropyl Acetate	9.38	61	32000	No Calib	#	
40) 1-Butanol	8.90	56	893886	No Calib	#	
41) Benzene	8.99	78	40946	0.483	ng	94
42) Carbon Tetrachloride	9.16	117	10001	0.314	ng	88
43) Cyclohexane	9.28	84	10846	0.349	ng	98
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.	d	
47) Trichloroethene	10.22	130	34346	1.383	ng	98
48) 1,4-Dioxane	10.19	88	16648	0.974	ng	83
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.	d	
50) Methyl Methacrylate	0.00	100	0	N.D.	d	

Data File : I:\MS13\DATA\2023_03\24\03242328.D
 Acq On : 24 Mar 2023 22:50
 Sample : P2301250-023 (1000mL)
 Misc : S35-01202301

Vial: 12
 Operator: TZ
 Inst : MS13

Quant Time: Mar 27 13:56:25 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.63	71	34181	1.666	ng	97
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.38	58	43344	2.372	ng	94
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.61	91	253833	2.554	ng	99
59) 2-Hexanone	12.97	43	107676	2.230	ng	94
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	13.44	107	131	N.D.		
62) n-Butyl Acetate	13.81	43	16678	0.304	ng	95
63) n-Octane	13.96	57	29928	1.531	ng	89
64) Tetrachloroethene	14.07	166	115928	3.834	ng	100
65) Chlorobenzene	14.94	112	55070	0.840	ng	99
66) Ethylbenzene	15.44	91	181626	1.532	ng	100
67) m- & p-Xylenes	15.66	91	1023481	10.723	ng	98
68) Bromoform	15.71	173	404	N.D.		
69) Styrene	16.13	104	26223	0.400	ng	97
70) o-Xylene	16.27	91	267220	2.928	ng	99
71) n-Nonane	16.64	43	110006	2.491	ng	93
72) 1,1,2,2-Tetrachloroethane	16.22	83	263	N.D.		
74) Cumene	17.06	105	11796	0.106	ng	99
75) alpha-Pinene	17.57	93	8942	0.175	ng	83
76) n-Propylbenzene	17.74	91	20705	0.156	ng	97
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	22375	0.210	ng	95
79) 1,3,5-Trimethylbenzene	18.06	105	26768	0.284	ng	99
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.60	105	67084	0.723	ng	91
83) n-Decane	17.13	58	7096	No Calib	#	
84) Benzyl Chloride	18.75	91	867	N.D.		
85) 1,3-Dichlorobenzene	18.77	146	3769	0.067	ng	97
86) 1,4-Dichlorobenzene	18.86	146	6384	0.110	ng	96
87) sec-Butylbenzene	18.95	105	2860	N.D.		
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.	d	
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.30	146	5766	0.104	ng	99
91) d-Limonene	19.36	68	33303	1.061	ng	100
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.26	58	7505	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	729	N.D.		
95) Naphthalene	21.55	128	14783	0.147	ng	95
96) n-Dodecane	19.20	58	272	No Calib	#	
97) Hexachlorobutadiene	21.99	225	179	N.D.		
98) Cyclohexanone	15.61	55	2132	No Calib	#	
99) tert-Butylbenzene	0.00	119	0	N.D.	d	
100) n-Butylbenzene	0.00	91	0	N.D.	d	
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Vial: 12
Operator: TZ
Inst : MS13

Quant Time: Mar 27 13:56:25 2023

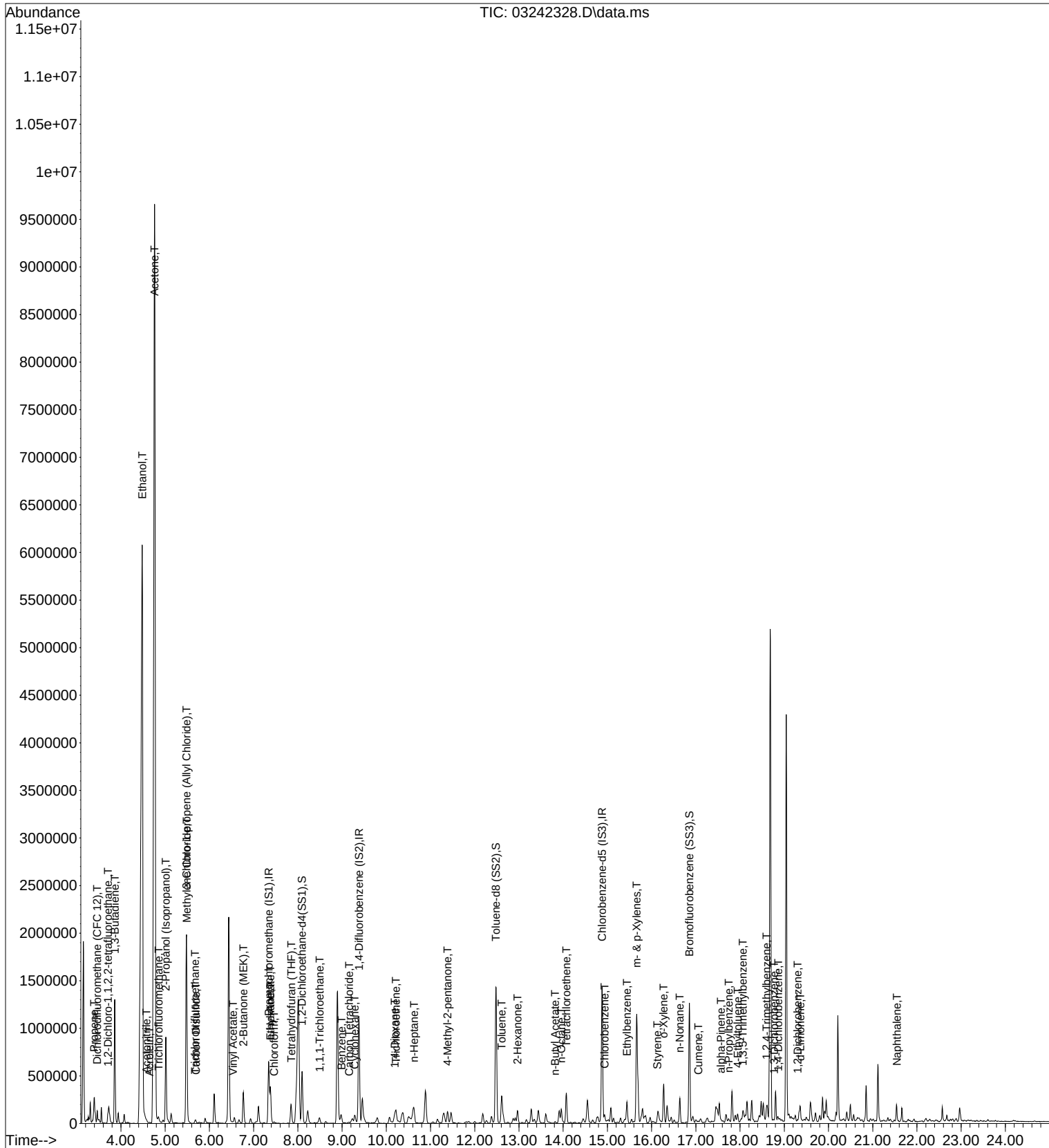
Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA T0-15 per SOP V0A-T015 (CASS T0-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242328.D
 Acq On : 24 Mar 2023 22:50
 Sample : P2301250-023 (1000mL)
 Misc : S35-01202301

Vial: 12
 Operator: TZ
 Inst : MS13

Tz 3/27/23

Quant Time: Mar 27 13:56:25 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.34	130	248856	12.500	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	9.38	114	1089688	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	203040	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.10	65	422242	12.786	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.32%
57) Toluene-d8 (SS2)	12.48	98	1228027	11.761	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.08%
73) Bromofluorobenzene (SS3)	16.85	174	457272	11.957	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	95.68%

Target Compounds

						Qvalue
2) Propene	3.39	42	64717	2.600	ng	# 80
3) Dichlorodifluoromethan...	3.46	85	66357	1.456	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	3.71	135	1392	0.060	ng	99
7) 1,3-Butadiene	3.86	54	17556	0.761	ng	# 1
10) Ethanol	4.48	45	11198216	633.600	ng	99
11) Acetonitrile	4.58	41	11211	0.244	ng	88
12) Acrolein	4.65	56	3010	0.206	ng	91
13) Acetone	4.76	58	4160951	275.851	ng	97
14) Trichlorofluoromethane	4.85	101	29207	0.712	ng	99
15) 2-Propanol (Isopropanol)	5.02	45	1010070	16.587	ng	99
19) Methylene Chloride	5.49	84	130005	5.879	ng	93
20) 3-Chloro-1-propene (Al...	5.48	41	398360	11.282	ng	# 39
21) Trichlorotrifluoroethane	5.68	151	6675	0.309	ng	99
22) Carbon Disulfide	5.69	76	42830	0.489	ng	100
26) Vinyl Acetate	6.54	86	3123	0.766	ng	# 4
27) 2-Butanone (MEK)	6.77	72	96617	7.215	ng	98
30) Ethyl Acetate	7.38	61	48684	5.529	ng	94
31) n-Hexane	7.38	57	45414	1.340	ng	99
32) Chloroform	7.46	83	9500	0.237	ng	98
34) Tetrahydrofuran (THF)	7.86	72	2475	0.180	ng	# 1
38) 1,1,1-Trichloroethane	8.49	97	40720	1.129	ng	99
41) Benzene	8.99	78	40946	0.483	ng	94
42) Carbon Tetrachloride	9.16	117	10001	0.314	ng	88
43) Cyclohexane	9.28	84	10846	0.349	ng	98
47) Trichloroethene	10.22	130	34346	1.383	ng	98
48) 1,4-Dioxane	10.19	88	16648	0.974	ng	83
51) n-Heptane	10.63	71	34181	1.666	ng	97
53) 4-Methyl-2-pentanone	11.38	58	43344	2.372	ng	94
58) Toluene	12.61	91	253833	2.554	ng	99
59) 2-Hexanone	12.97	43	107676	2.230	ng	94
62) n-Butyl Acetate	13.81	43	16678	0.304	ng	95
63) n-Octane	13.96	57	29928	1.531	ng	89
64) Tetrachloroethene	14.07	166	115928	3.834	ng	100
65) Chlorobenzene	14.94	112	55070	0.840	ng	99
66) Ethylbenzene	15.44	91	181626	1.532	ng	100
67) m- & p-Xylenes	15.66	91	1023481	10.723	ng	98
69) Styrene	16.13	104	26223	0.400	ng	97
70) o-Xylene	16.27	91	267220	2.928	ng	99
71) n-Nonane	16.64	43	110006	2.491	ng	93
74) Cumene	17.06	105	11796	0.106	ng	99
75) alpha-Pinene	17.57	93	8942	0.175	ng	83
76) n-Propylbenzene	17.74	91	20705	0.156	ng	97
78) 4-Ethyltoluene	17.95	105	22375	0.210	ng	95
79) 1,3,5-Trimethylbenzene	18.06	105	26768	0.284	ng	99
82) 1,2,4-Trimethylbenzene	18.60	105	67084	0.723	ng	91
85) 1,3-Dichlorobenzene	18.77	146	3769	0.067	ng	97
86) 1,4-Dichlorobenzene	18.86	146	6384	0.110	ng	96

Data File : I:\MS13\DATA\2023_03\24\03242328.D
Acq On : 24 Mar 2023 22:50
Sample : P2301250-023 (1000mL)
Misc : S35-01202301

Vial: 12
Operator: TZ
Inst : MS13

Quant Time: Mar 27 13:56:25 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
90) 1,2-Dichlorobenzene	19.30	146	5766	0.104	ng	99
91) d-Limonene	19.36	68	33303	1.061	ng	100
95) Naphthalene	21.55	128	14783	0.147	ng	95

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

Vial: 12
Operator: TZ
Inst : MS13

Quant Time: Mar 27 13:56:25 2023

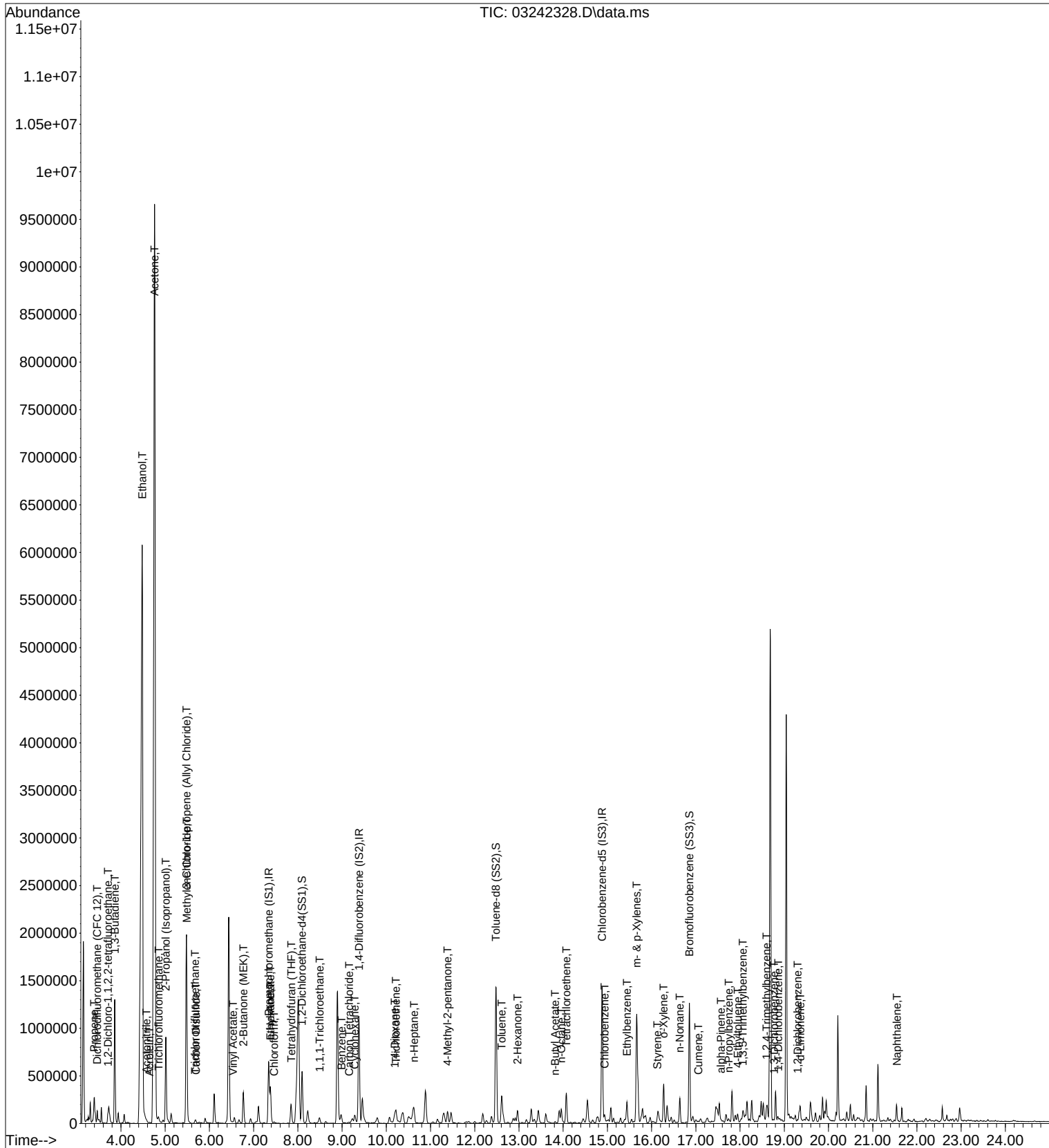
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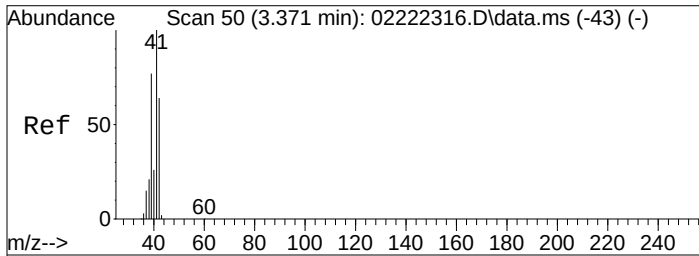
Quant Title : EPA T0-15 per SOP V0A-T015 (CASS T0-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

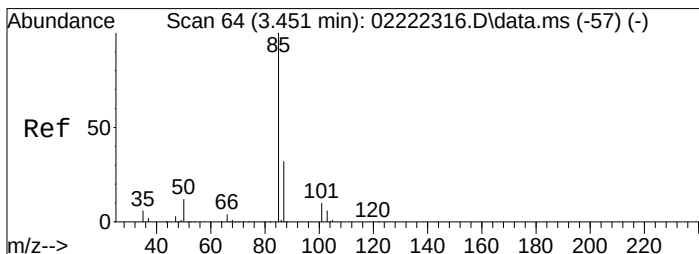
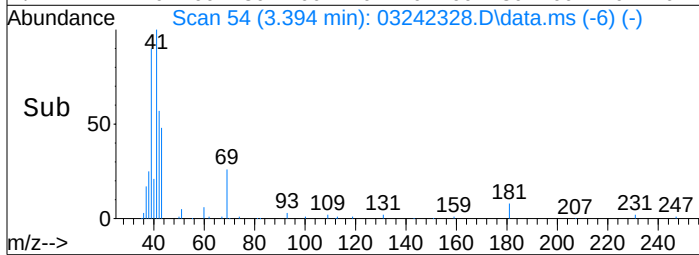
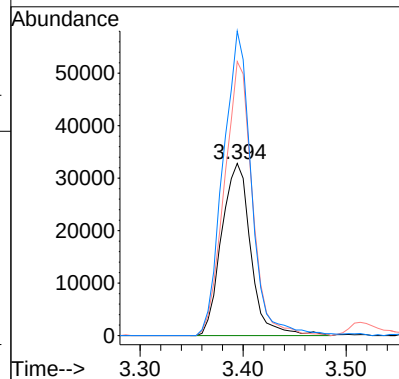
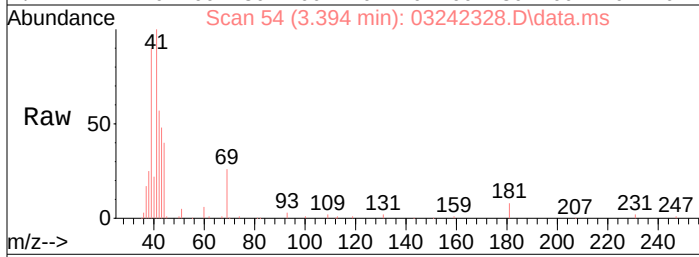
DataAcq Meth:T015.M





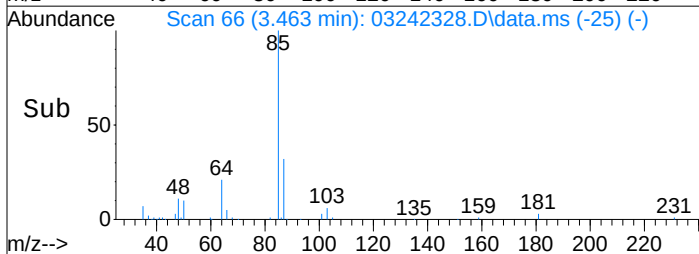
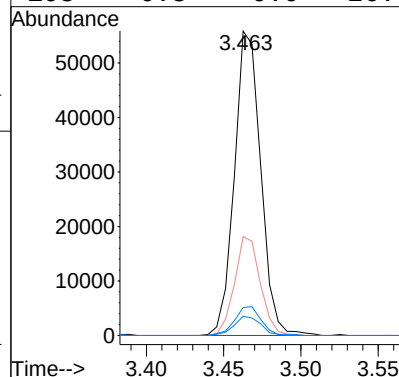
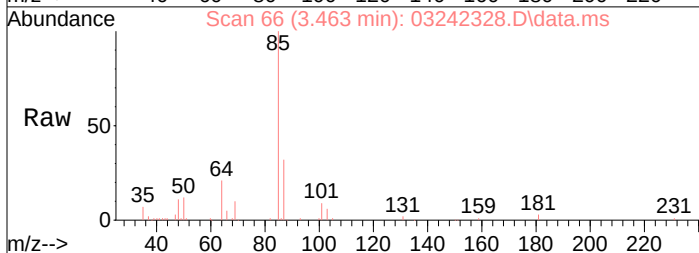
#2
 Propene
 Concen: 2.60 ng
 RT: 3.39 min Scan# 54
 Delta R.T. 0.023 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 22:50

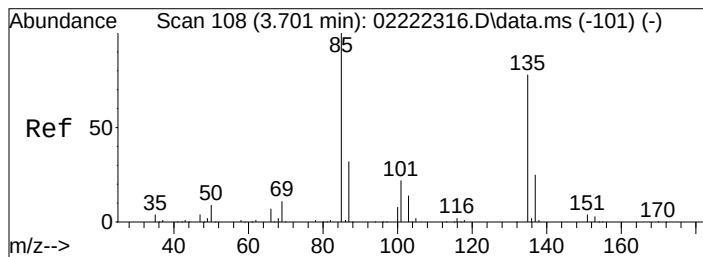
Tgt Ion: 42 Resp: 64717
 Ion Ratio Lower Upper
 42 100
 39 152.4 100.7 140.7#
 41 170.6 134.4 174.4



#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.46 ng
 RT: 3.46 min Scan# 66
 Delta R.T. -0.015 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 22:50

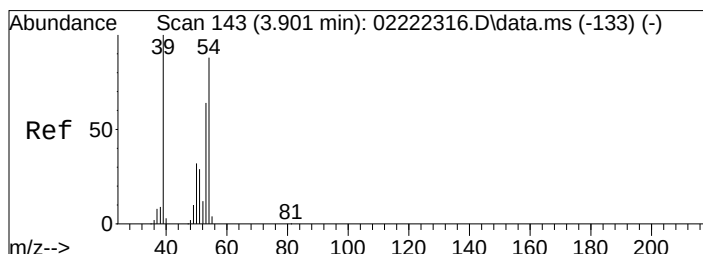
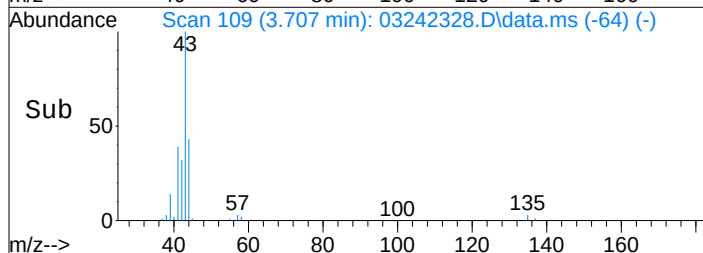
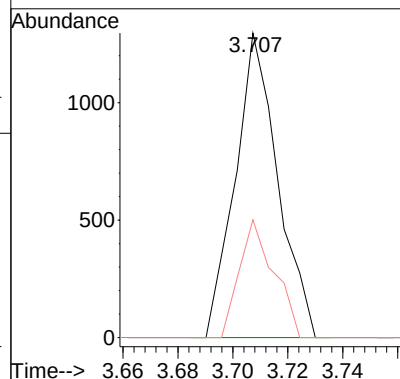
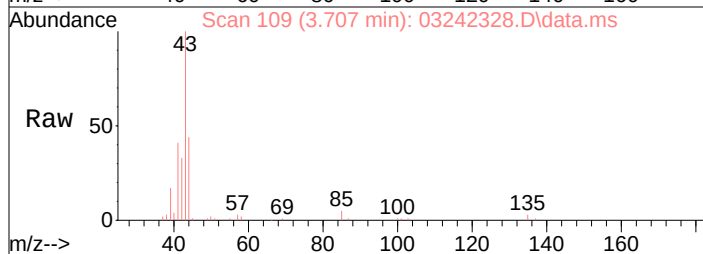
Tgt Ion: 85 Resp: 66357
 Ion Ratio Lower Upper
 85 100
 87 31.8 12.4 52.4
 101 9.7 0.0 29.4
 103 6.3 0.0 26.0





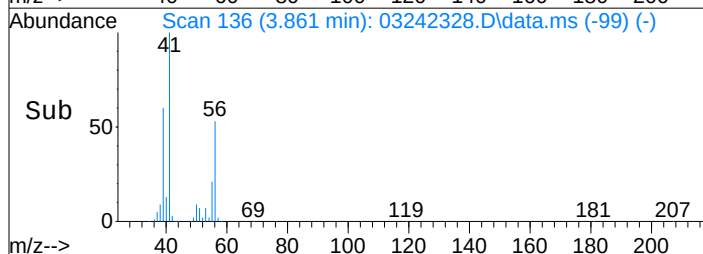
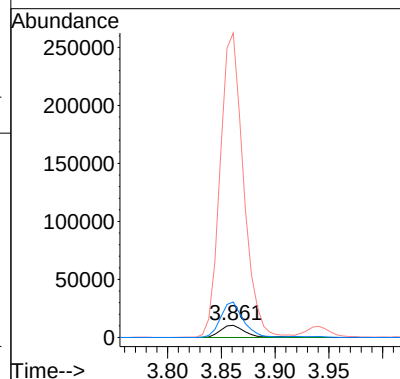
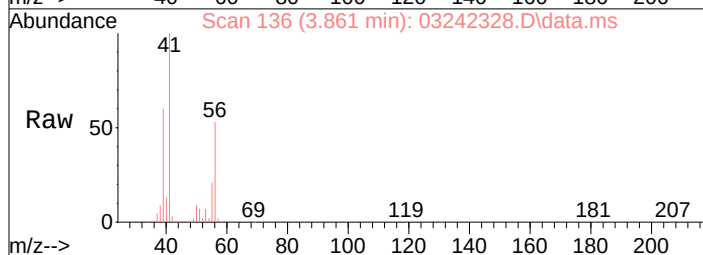
#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.06 ng
 RT: 3.71 min Scan# 109
 Delta R.T. 0.006 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 22:50

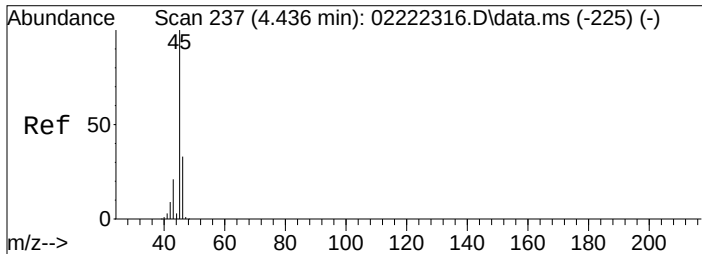
Tgt Ion: 135 Resp: 1392
 Ion Ratio Lower Upper
 135 100
 137 31.5 12.2 52.2



#7
 1,3-Butadiene
 Concen: 0.76 ng
 RT: 3.86 min Scan# 136
 Delta R.T. -0.040 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 22:50

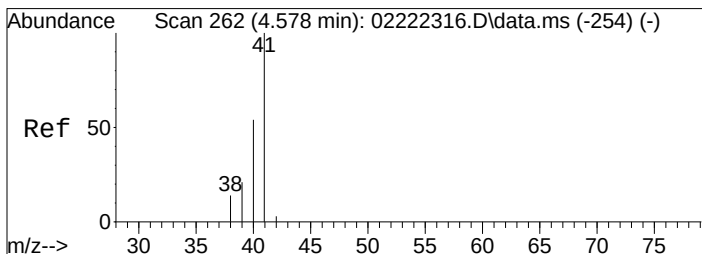
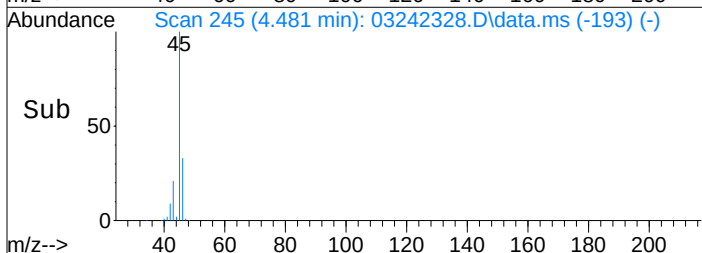
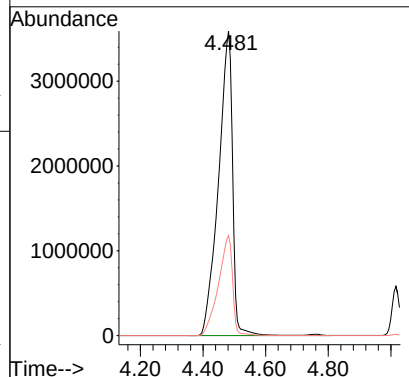
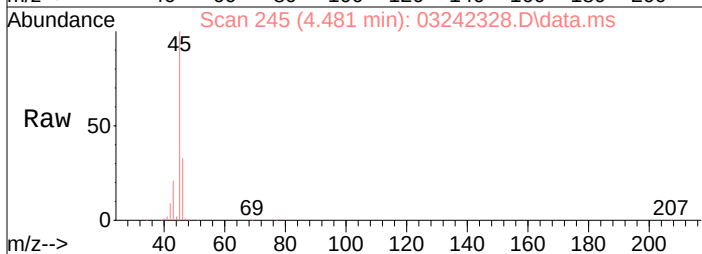
Tgt Ion: 54 Resp: 17556
 Ion Ratio Lower Upper
 54 100
 39 2263.2 96.5 136.5#
 53 257.2 52.3 92.3#





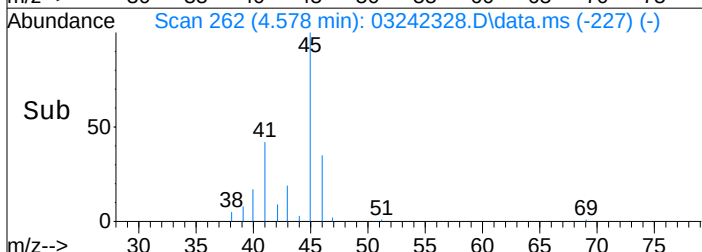
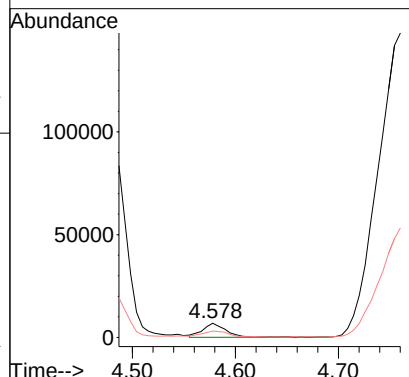
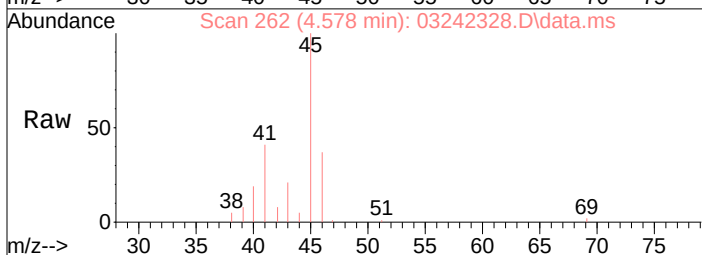
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 Ethanol
 Concen: 633.60 ng
 RT: 4.48 min Scan# 245
 Delta R.T. 0.046 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 22:50

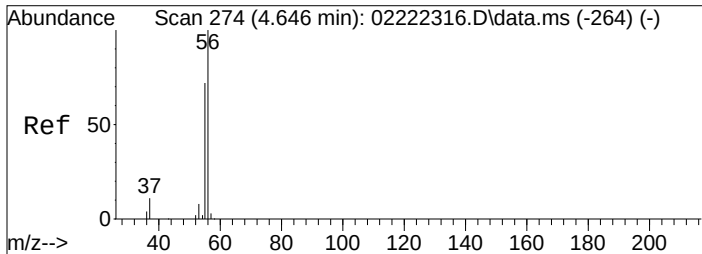
Tgt Ion: 45 Resp:11198216
 Ion Ratio Lower Upper
 45 100
 46 33.1 13.8 53.8



#11
 Acetonitrile
 Concen: 0.24 ng
 RT: 4.58 min Scan# 262
 Delta R.T. 0.000 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 22:50

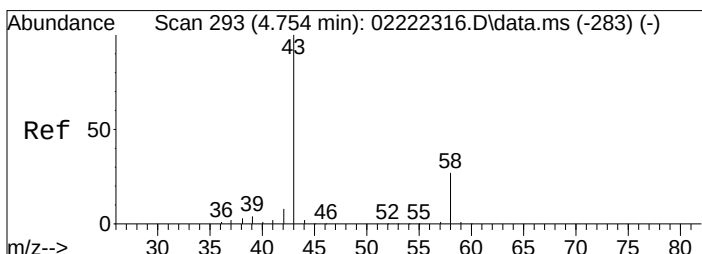
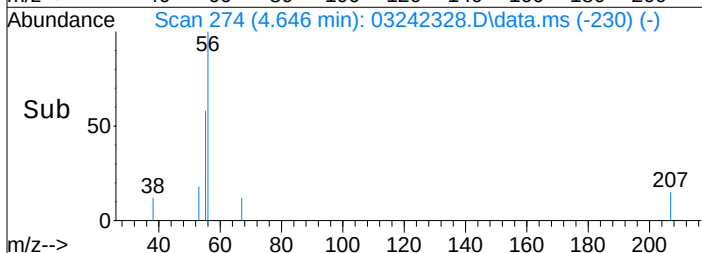
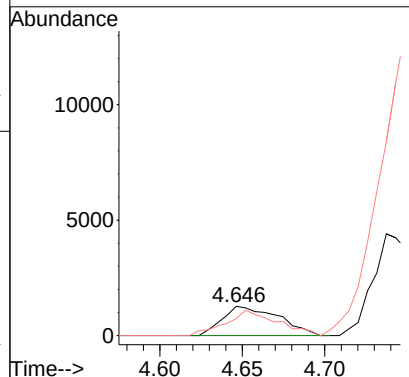
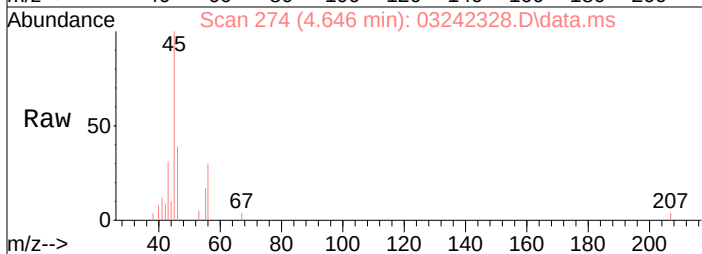
Tgt Ion: 41 Resp: 11211
 Ion Ratio Lower Upper
 41 100
 40 46.1 34.4 74.4





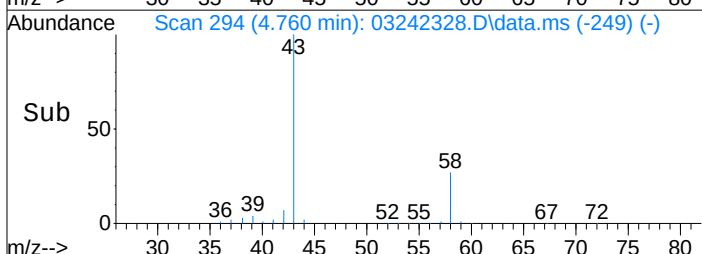
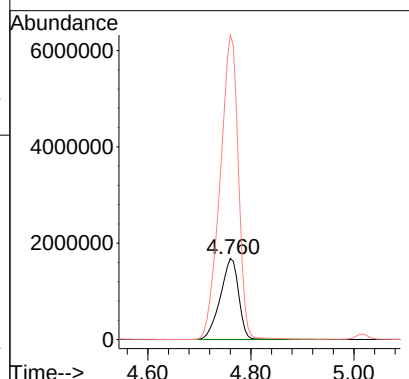
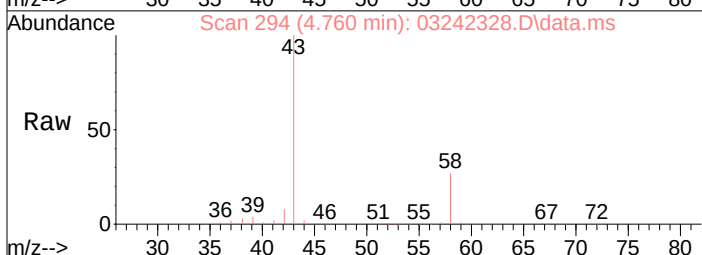
#12
 Acrolein
 Concen: 0.21 ng
 RT: 4.65 min Scan# 274
 Delta R.T. 0.000 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 22:50

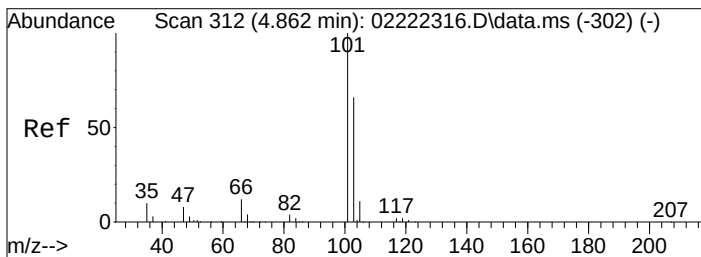
Tgt Ion: 56 Resp: 3010
 Ion Ratio Lower Upper
 56 100
 55 78.5 50.9 90.9



#13
 Acetone
 Concen: 275.85 ng
 RT: 4.76 min Scan# 294
 Delta R.T. 0.006 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 22:50

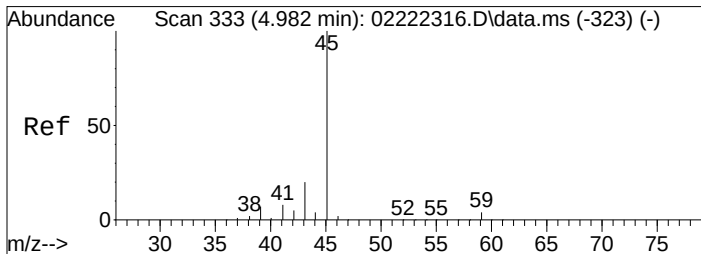
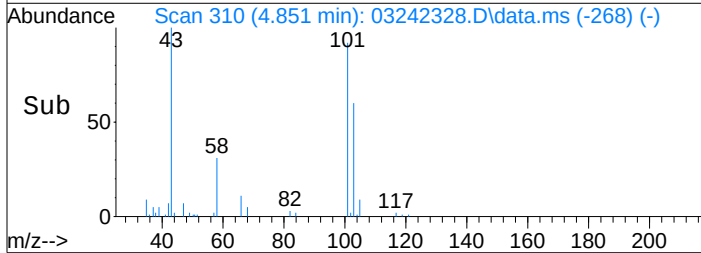
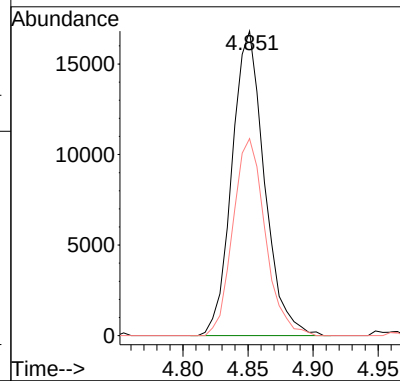
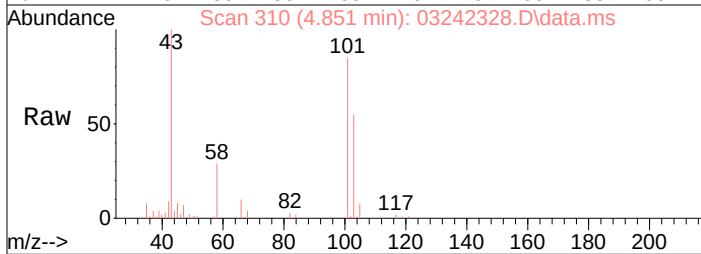
Tgt Ion: 58 Resp: 4160951
 Ion Ratio Lower Upper
 58 100
 43 375.5 337.8 397.8





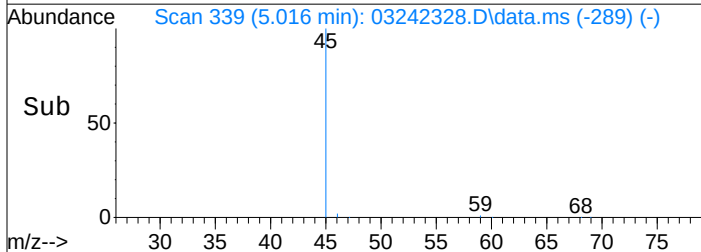
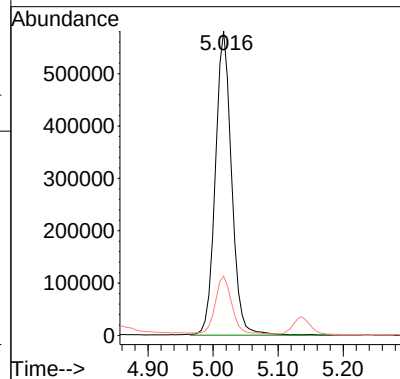
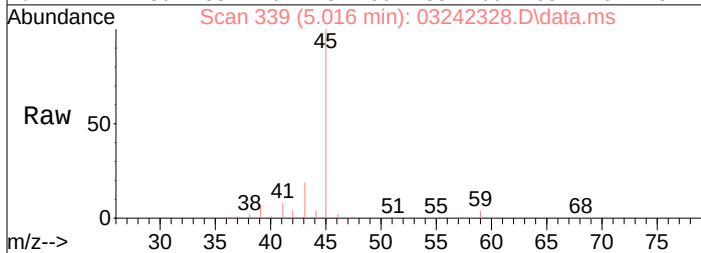
#14
 Trichlorofluoromethane
 Concen: 0.71 ng
 RT: 4.85 min Scan# 310
 Delta R.T. -0.011 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 22:50

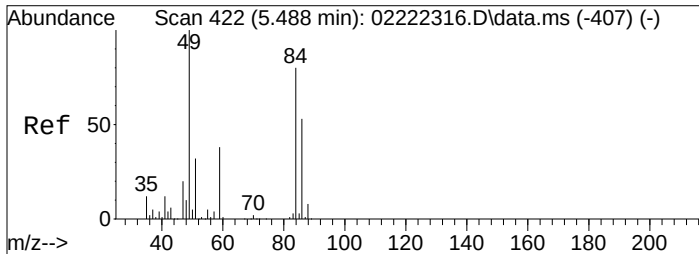
Tgt Ion: 101 Resp: 29207
 Ion Ratio Lower Upper
 101 100
 103 64.3 45.2 85.2



#15
 2-Propanol (Isopropanol)
 Concen: 16.59 ng
 RT: 5.02 min Scan# 339
 Delta R.T. 0.034 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 22:50

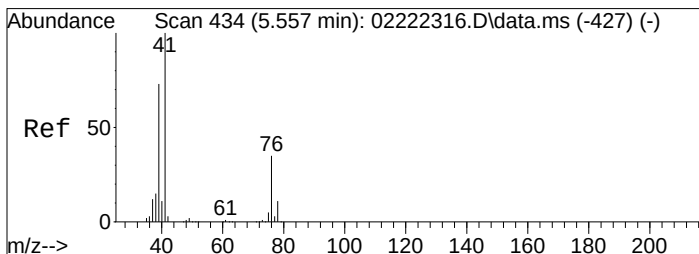
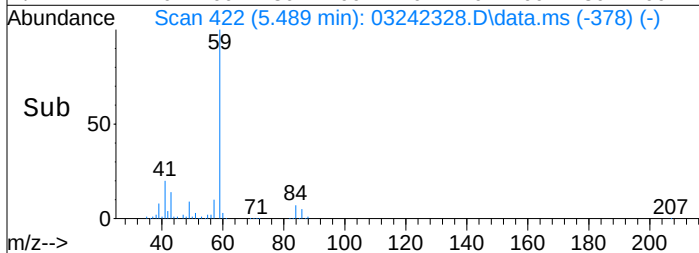
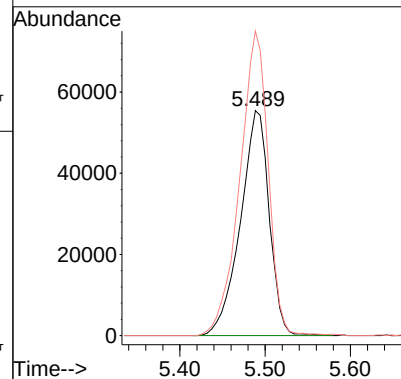
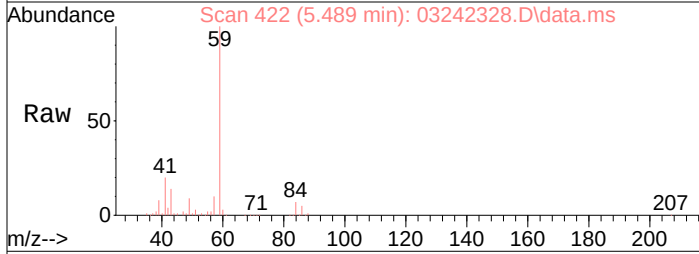
Tgt Ion: 45 Resp: 1010070
 Ion Ratio Lower Upper
 45 100
 43 19.3 0.0 39.7





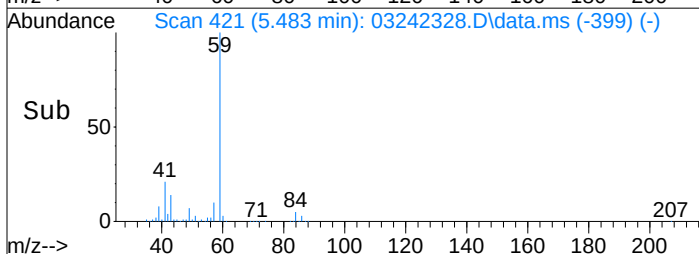
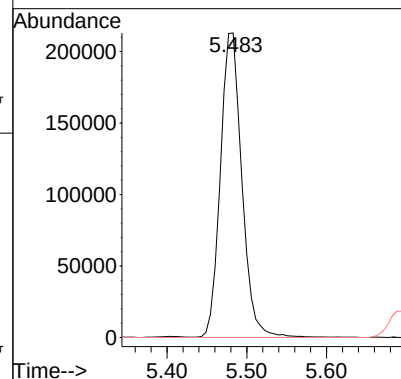
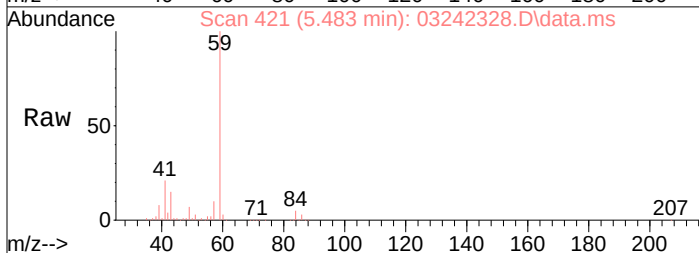
#19
Methylene Chloride
Concen: 5.88 ng
RT: 5.49 min Scan# 422
Delta R.T. 0.000 min
Lab File: 03242328.D
Acq: 24 Mar 2023 22:50

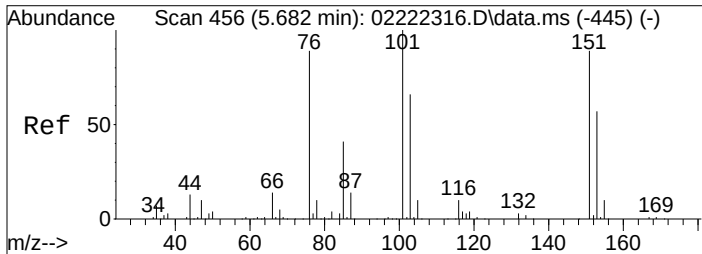
Tgt Ion: 84 Resp: 130005
Ion Ratio Lower Upper
84 100
49 134.0 101.3 151.3



#20
3-Chloro-1-propene (Allyl Chloride)
Concen: 11.28 ng
RT: 5.48 min Scan# 421
Delta R.T. -0.074 min
Lab File: 03242328.D
Acq: 24 Mar 2023 22:50

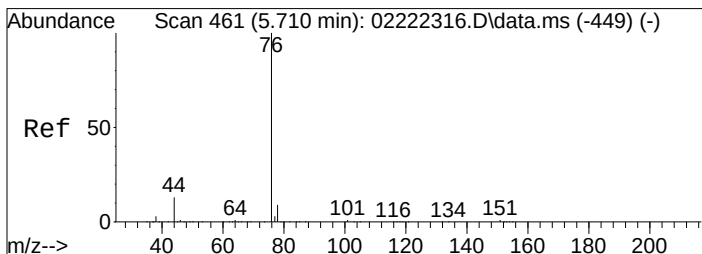
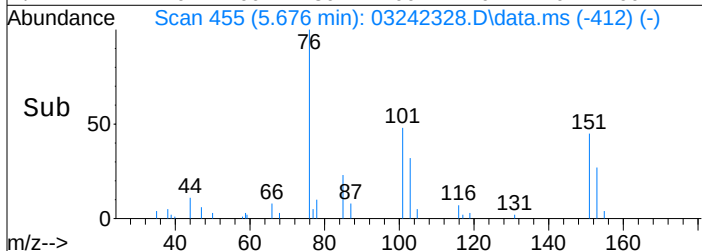
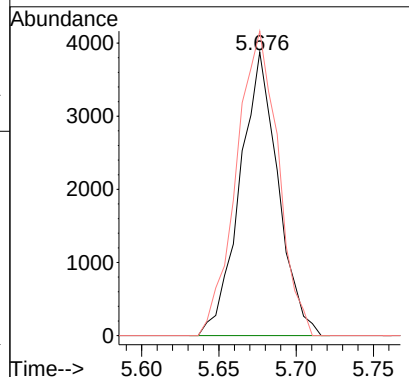
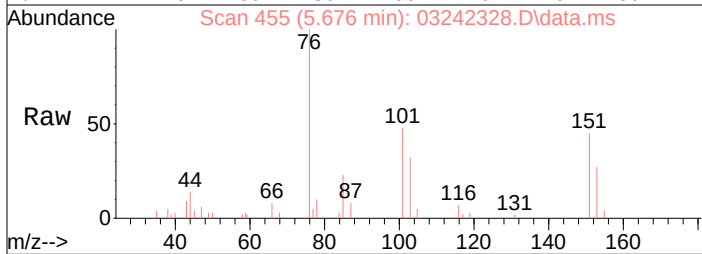
Tgt Ion: 41 Resp: 398360
Ion Ratio Lower Upper
41 100
76 0.0 15.8 55.8#





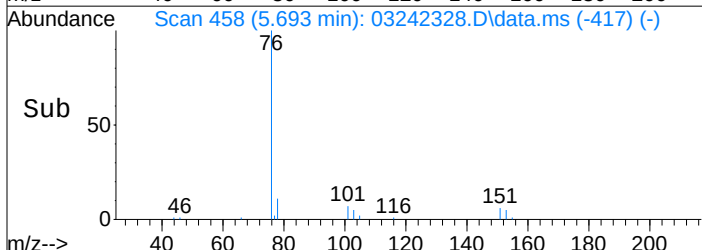
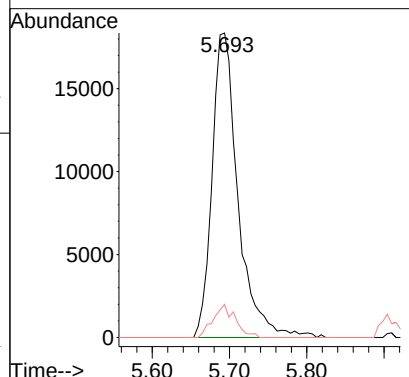
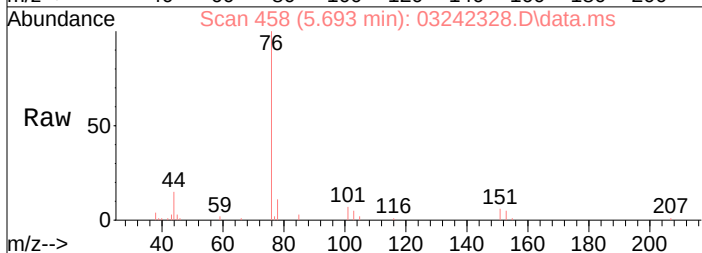
#21
 Trichlorotrifluoroethane
 Concen: 0.31 ng
 RT: 5.68 min Scan# 455
 Delta R.T. -0.006 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 22:50

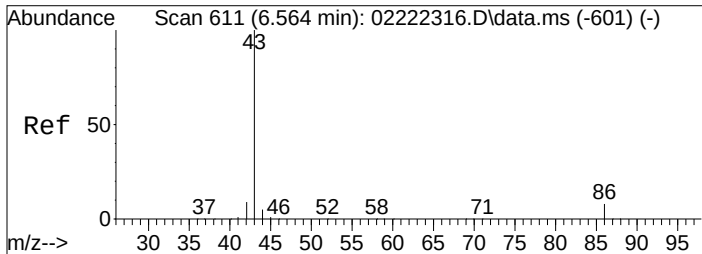
Tgt Ion: 151 Resp: 6675
 Ion Ratio Lower Upper
 151 100
 101 117.4 96.3 136.3



#22
 Carbon Disulfide
 Concen: 0.49 ng
 RT: 5.69 min Scan# 458
 Delta R.T. -0.017 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 22:50

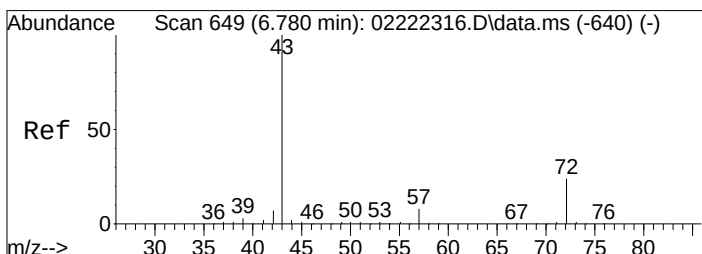
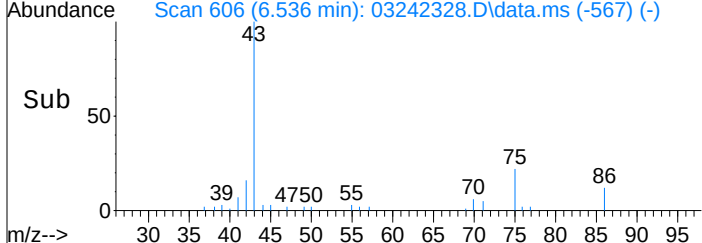
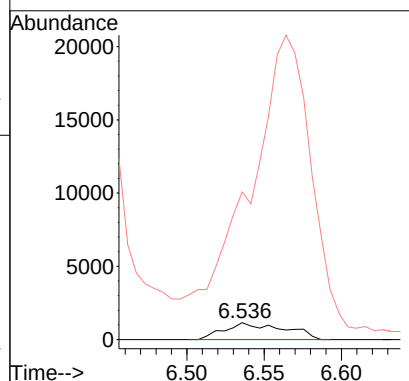
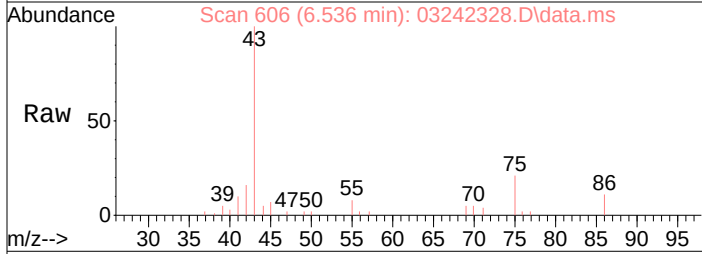
Tgt Ion: 76 Resp: 42830
 Ion Ratio Lower Upper
 76 100
 78 9.3 0.0 29.3





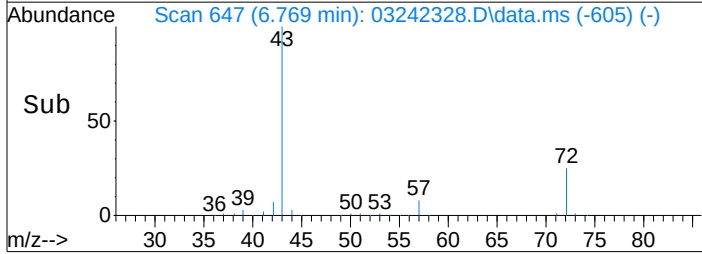
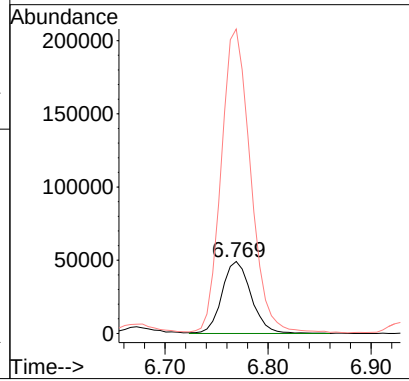
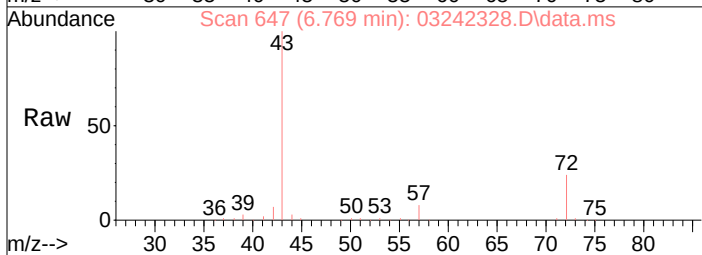
#26
 Vinyl Acetate
 Concen: 0.77 ng
 RT: 6.54 min Scan# 606
 Delta R.T. -0.028 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 22:50

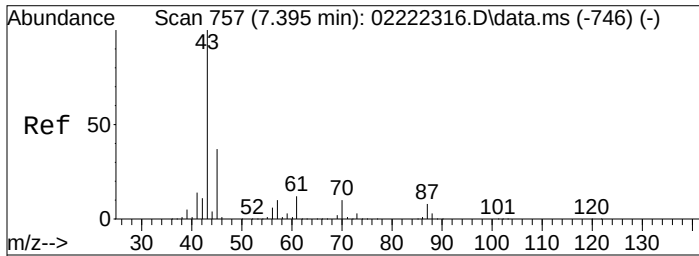
Tgt Ion	86	Resp	3123
Ion Ratio	Lower	Upper	
86	100		
43	1831.8	1292.1	1332.1#



#27
 2-Butanone (MEK)
 Concen: 7.22 ng
 RT: 6.77 min Scan# 647
 Delta R.T. -0.011 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 22:50

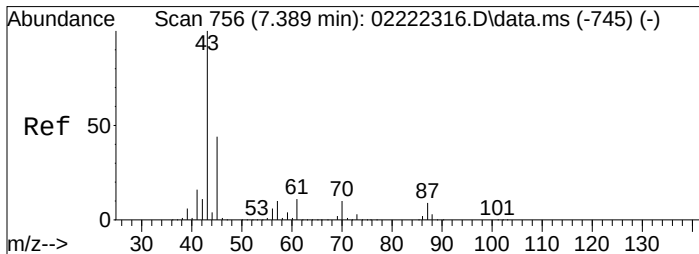
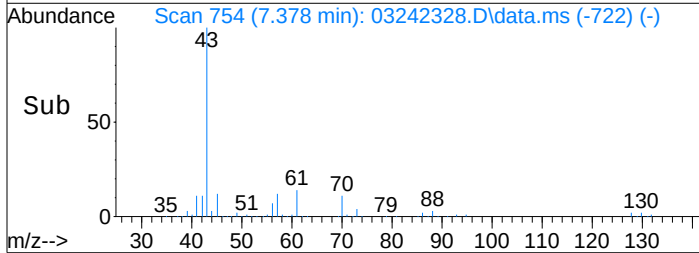
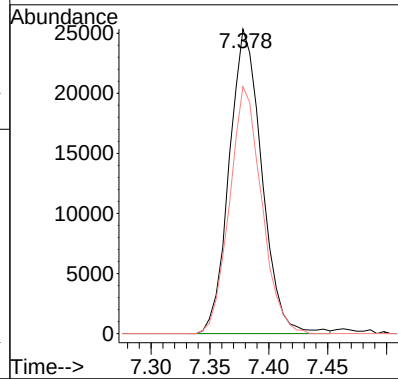
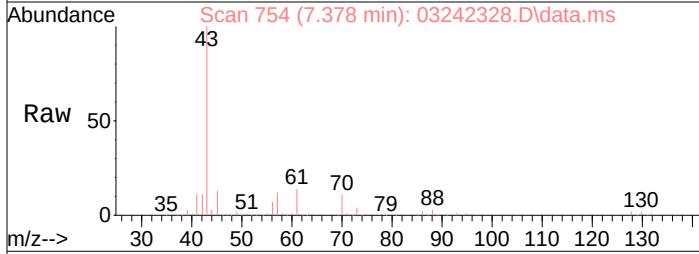
Tgt Ion	72	Resp	96617
Ion Ratio	Lower	Upper	
72	100		
43	425.8	400.5	440.5





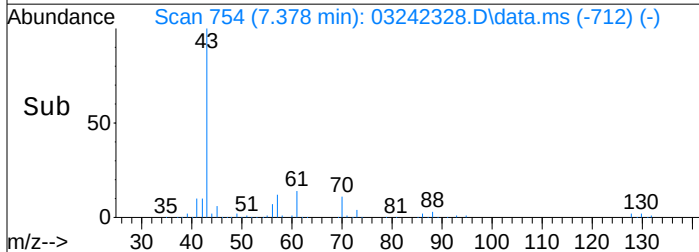
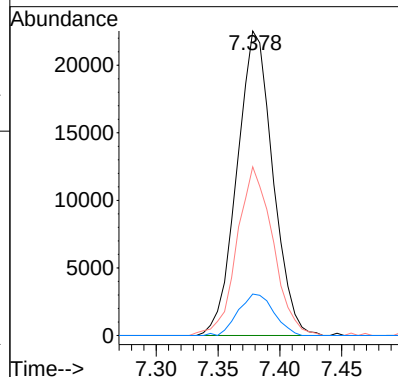
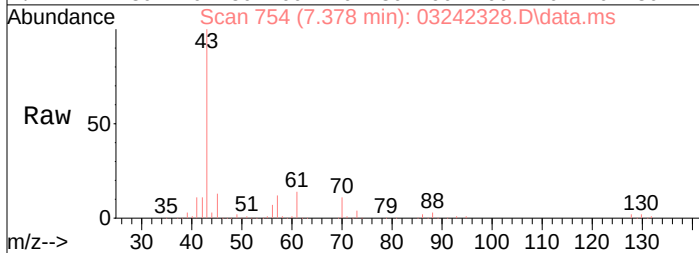
#30
Ethyl Acetate
Concen: 5.53 ng
RT: 7.38 min Scan# 754
Delta R.T. -0.017 min
Lab File: 03242328.D
Acq: 24 Mar 2023 22:50

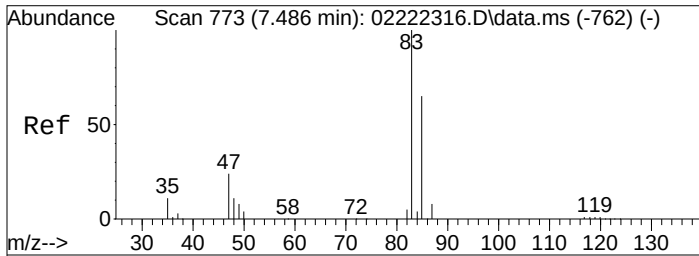
Tgt Ion: 61 Resp: 48684
Ion Ratio Lower Upper
61 100
70 79.9 65.6 105.6



#31
n-Hexane
Concen: 1.34 ng
RT: 7.38 min Scan# 754
Delta R.T. -0.011 min
Lab File: 03242328.D
Acq: 24 Mar 2023 22:50

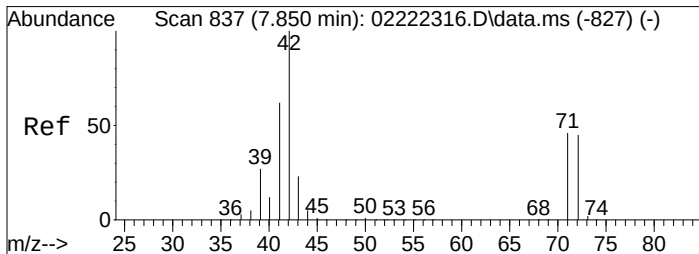
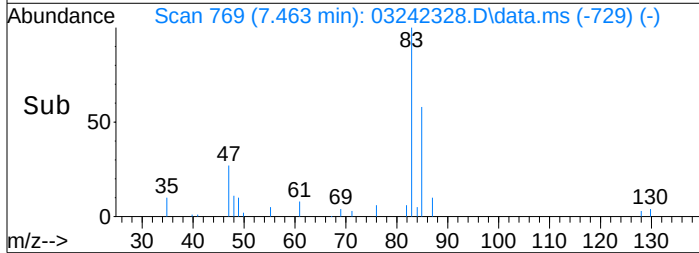
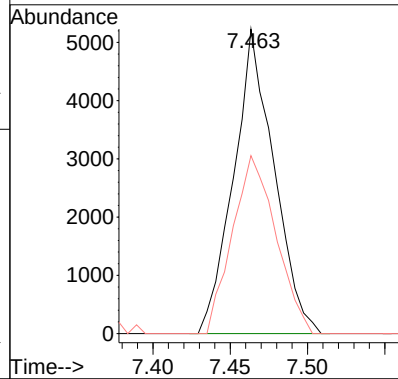
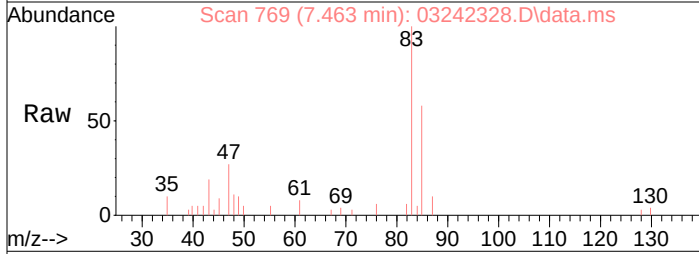
Tgt Ion: 57 Resp: 45414
Ion Ratio Lower Upper
57 100
56 55.6 44.0 66.0
86 13.5 11.5 17.3





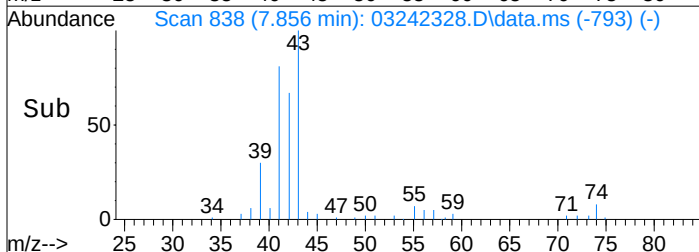
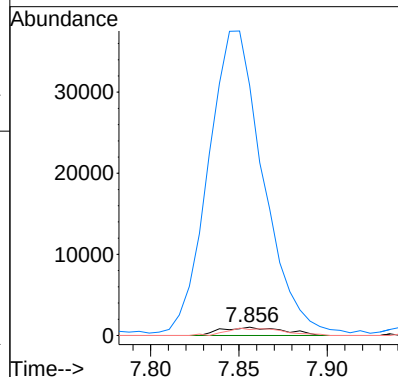
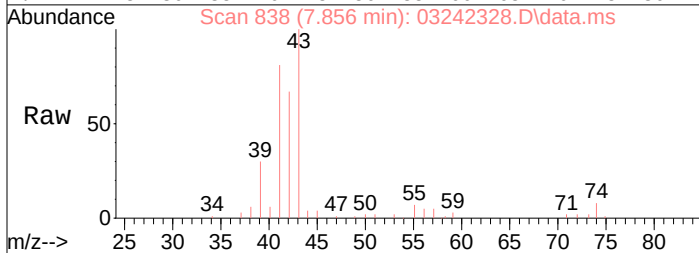
#32
Chloroform
Concen: 0.24 ng
RT: 7.46 min Scan# 769
Delta R.T. -0.023 min
Lab File: 03242328.D
Acq: 24 Mar 2023 22:50

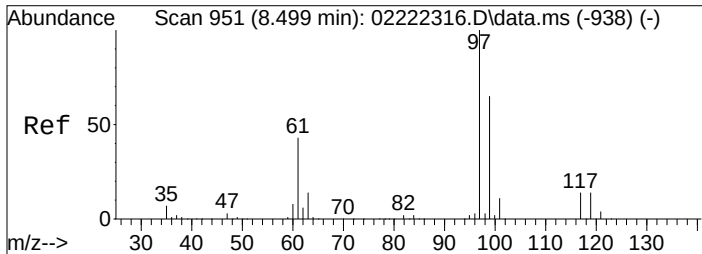
Tgt Ion: 83 Resp: 9500
Ion Ratio Lower Upper
83 100
85 63.1 45.0 85.0



#34
Tetrahydrofuran (THF)
Concen: 0.18 ng
RT: 7.86 min Scan# 838
Delta R.T. 0.006 min
Lab File: 03242328.D
Acq: 24 Mar 2023 22:50

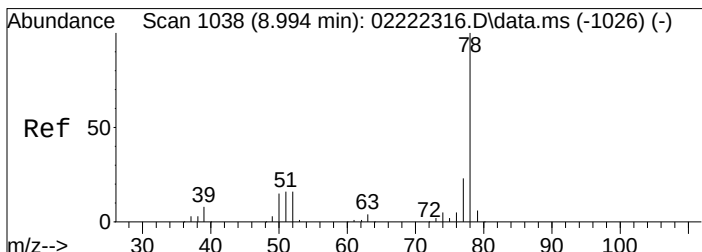
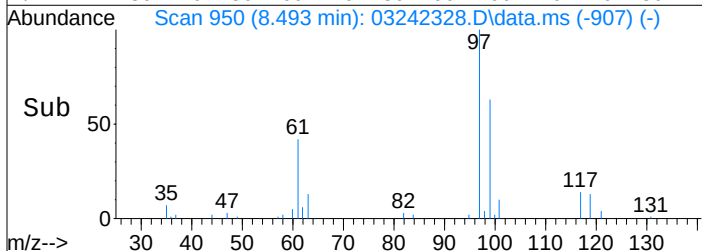
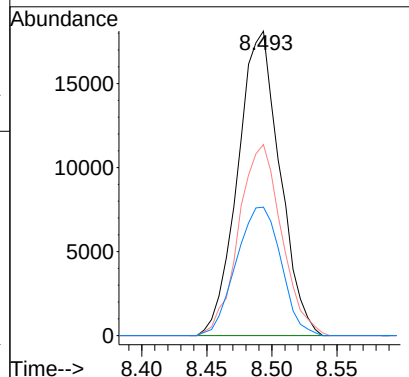
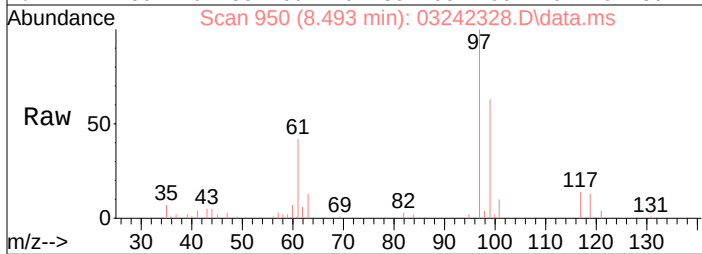
Tgt Ion: 72 Resp: 2475
Ion Ratio Lower Upper
72 100
71 81.1 79.8 119.8
42 3269.6 199.0 239.0#





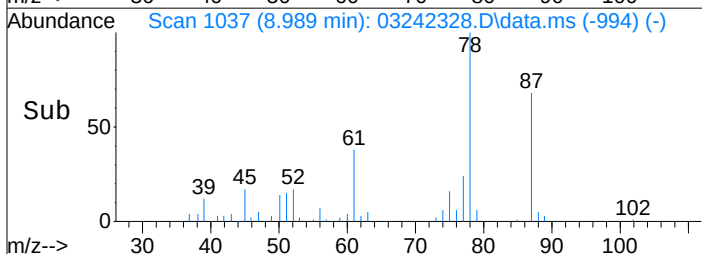
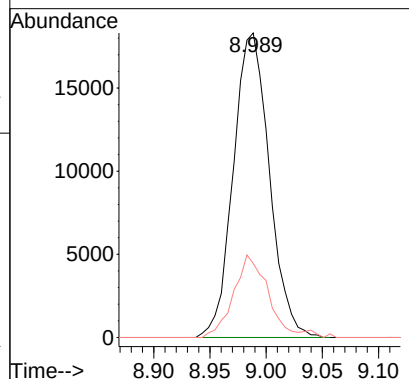
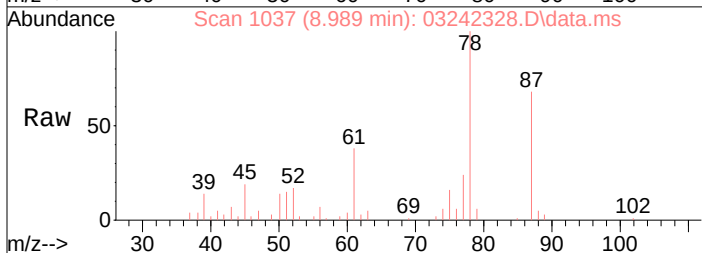
#38
 1,1,1-Trichloroethane
 Concen: 1.13 ng
 RT: 8.49 min Scan# 950
 Delta R.T. -0.006 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 22:50

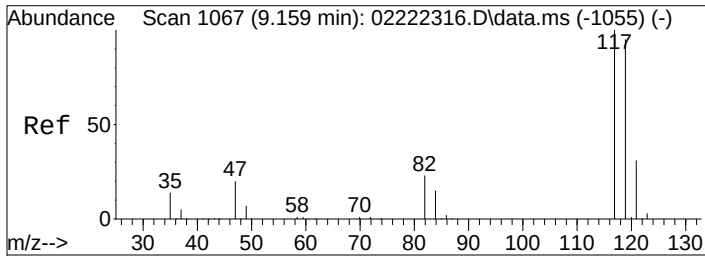
Tgt Ion:	97	Resp:	40720
Ion Ratio		Lower	Upper
97	100		
99	64.1	44.9	84.9
61	44.9	23.5	63.5



#41
 Benzene
 Concen: 0.48 ng
 RT: 8.99 min Scan# 1037
 Delta R.T. -0.006 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 22:50

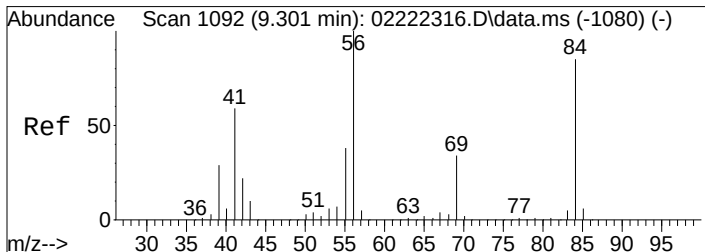
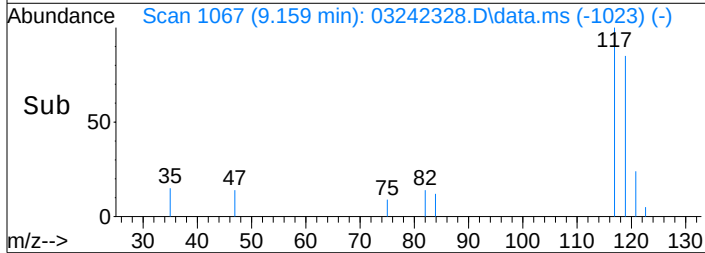
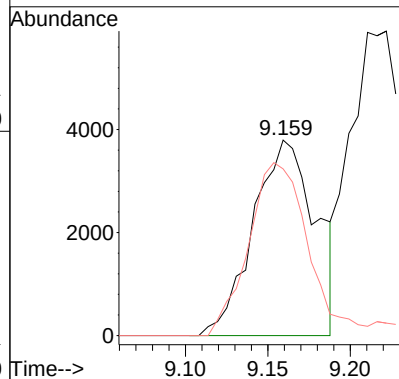
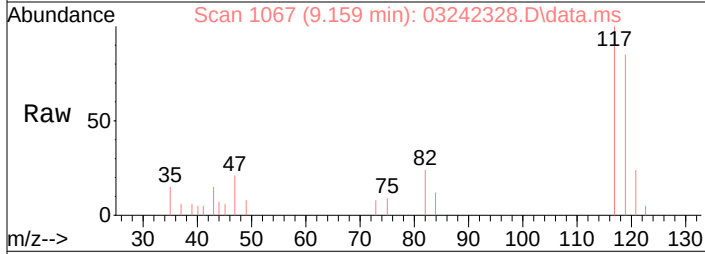
Tgt Ion:	78	Resp:	40946
Ion Ratio		Lower	Upper
78	100		
77	26.5	3.7	43.7





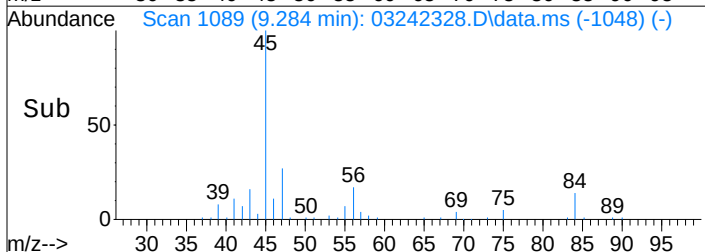
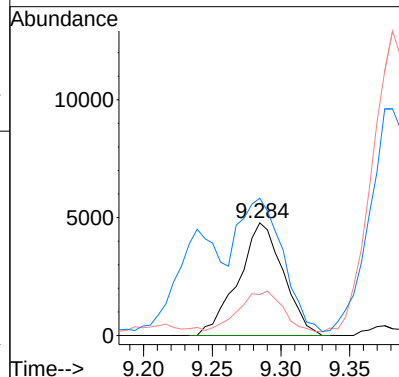
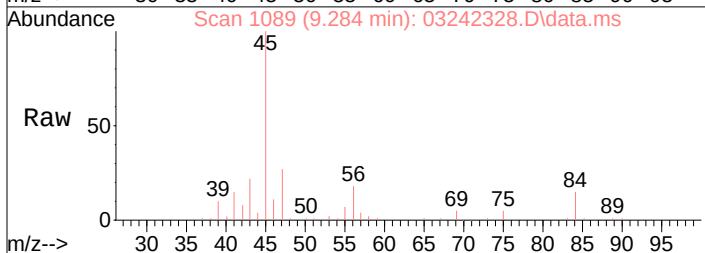
#42
Carbon Tetrachloride
Concen: 0.31 ng
RT: 9.16 min Scan# 1067
Delta R.T. 0.000 min
Lab File: 03242328.D
Acq: 24 Mar 2023 22:50

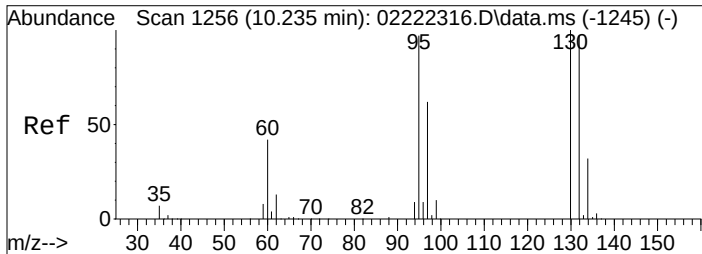
Tgt Ion: 117 Resp: 10001
Ion Ratio Lower Upper
117 100
119 84.1 75.7 115.7



#43
Cyclohexane
Concen: 0.35 ng
RT: 9.28 min Scan# 1089
Delta R.T. -0.017 min
Lab File: 03242328.D
Acq: 24 Mar 2023 22:50

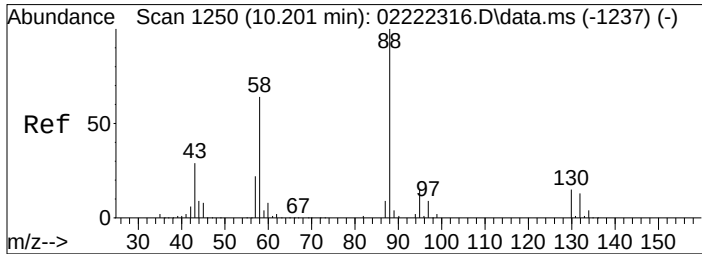
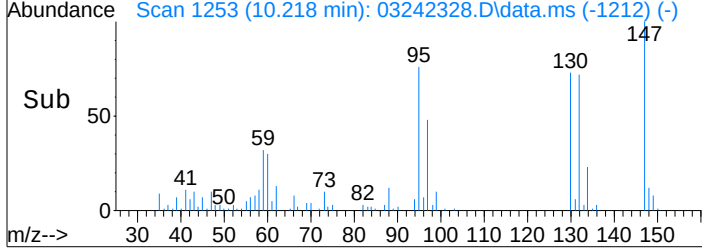
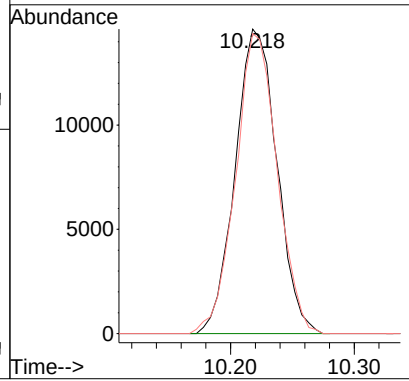
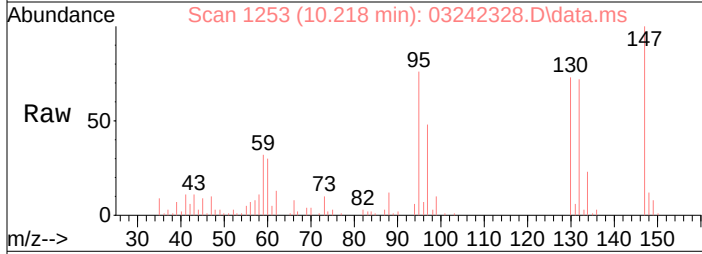
Tgt Ion: 84 Resp: 10846
Ion Ratio Lower Upper
84 100
69 42.8 20.0 60.0
56 116.6 98.5 138.5





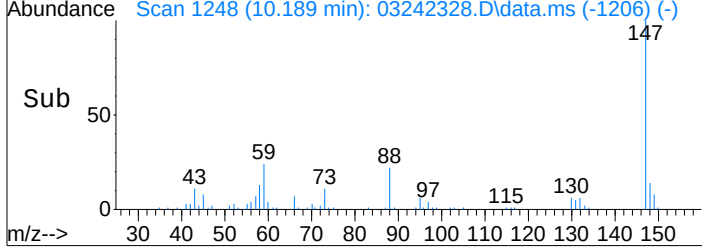
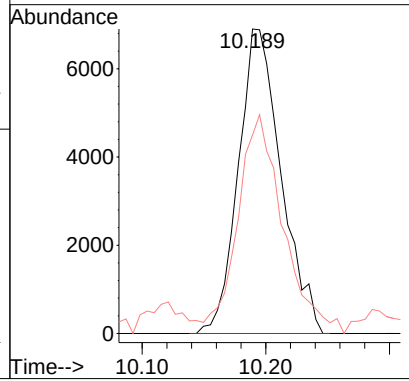
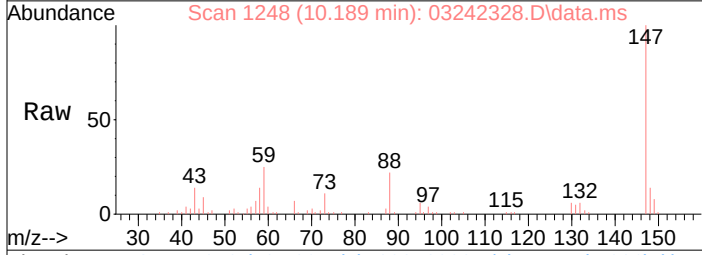
#47
 Trichloroethene
 Concen: 1.38 ng
 RT: 10.22 min Scan# 1253
 Delta R.T. -0.017 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 22:50

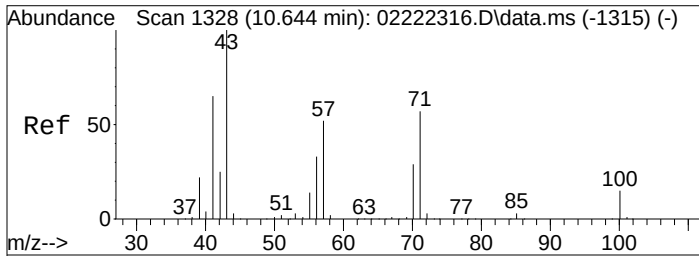
Tgt Ion:	130	Resp:	34346
Ion Ratio	Lower	Upper	
130	100		
132	98.0	76.3	116.3



#48
 1,4-Dioxane
 Concen: 0.97 ng
 RT: 10.19 min Scan# 1248
 Delta R.T. -0.011 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 22:50

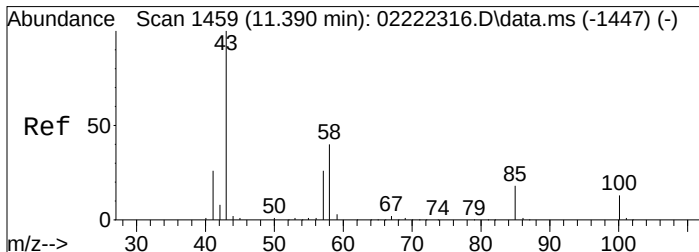
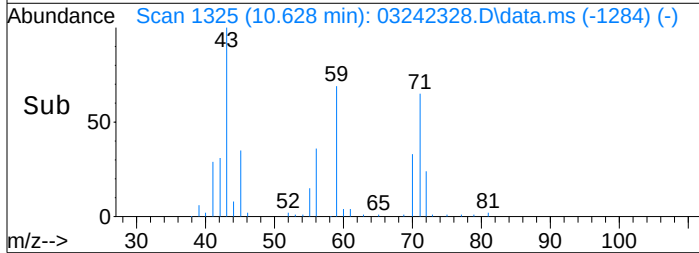
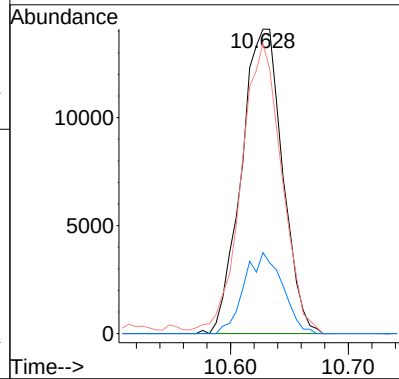
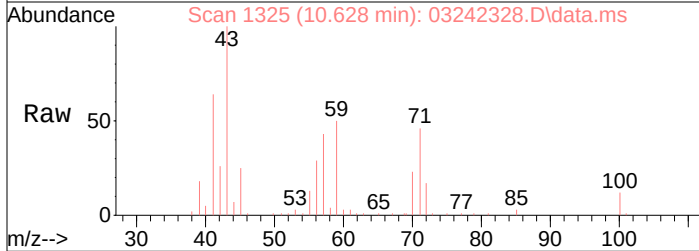
Tgt Ion:	88	Resp:	16648
Ion Ratio	Lower	Upper	
88	100		
58	75.6	42.5	82.5





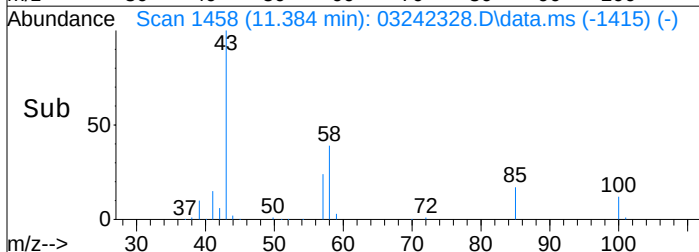
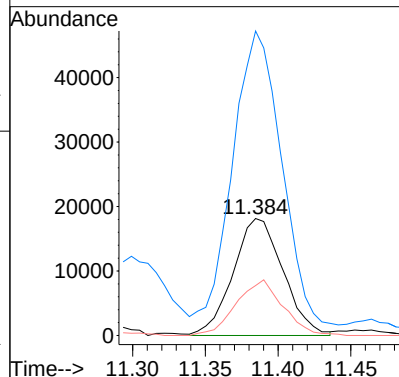
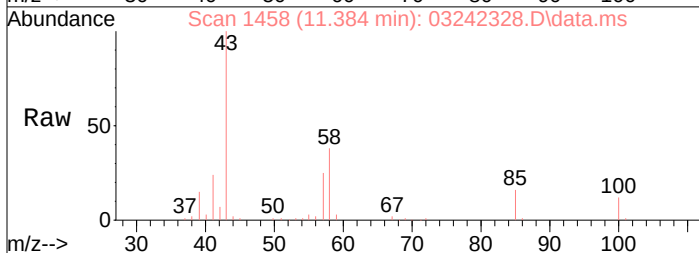
#51
n-Heptane
Concen: 1.67 ng
RT: 10.63 min Scan# 1325
Delta R.T. -0.017 min
Lab File: 03242328.D
Acq: 24 Mar 2023 22:50

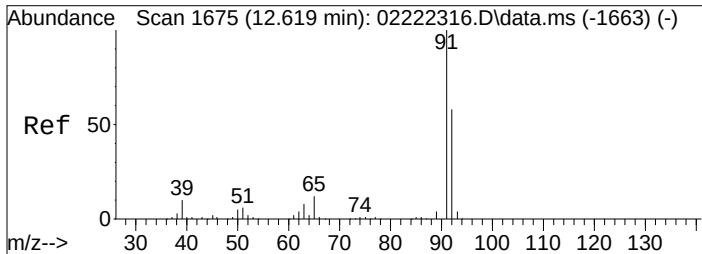
Tgt Ion: 71 Resp: 34181
Ion Ratio Lower Upper
71 100
57 94.5 71.7 111.7
100 24.7 5.8 45.8



#53
4-Methyl-2-pentanone
Concen: 2.37 ng
RT: 11.38 min Scan# 1458
Delta R.T. -0.006 min
Lab File: 03242328.D
Acq: 24 Mar 2023 22:50

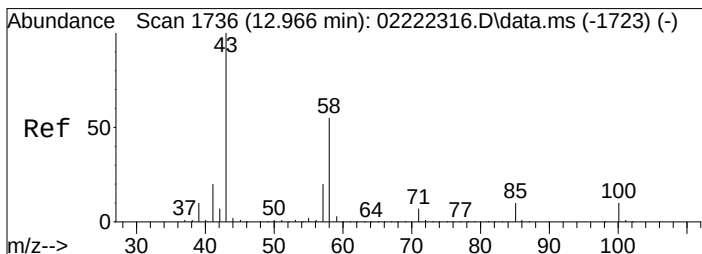
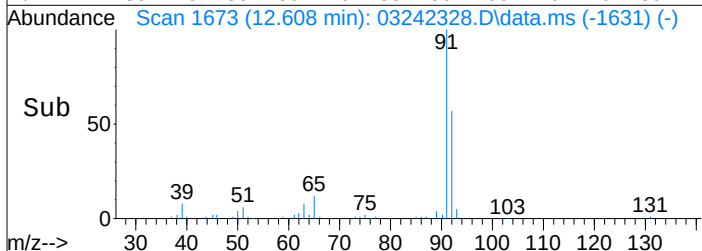
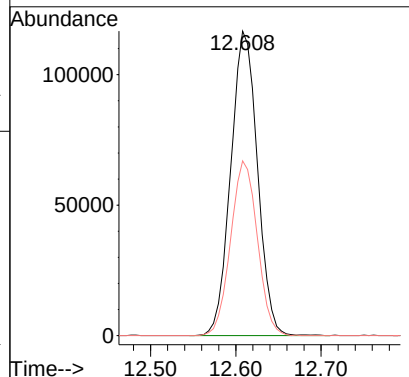
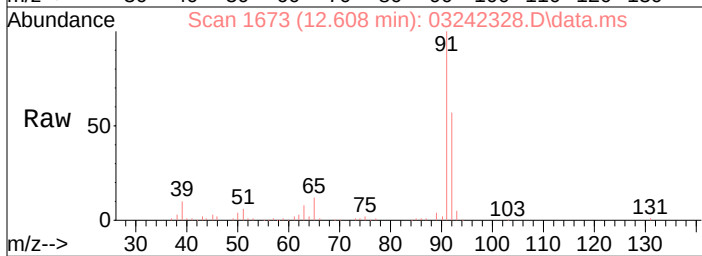
Tgt Ion: 58 Resp: 43344
Ion Ratio Lower Upper
58 100
85 44.5 38.6 58.0
43 262.4 202.2 303.2





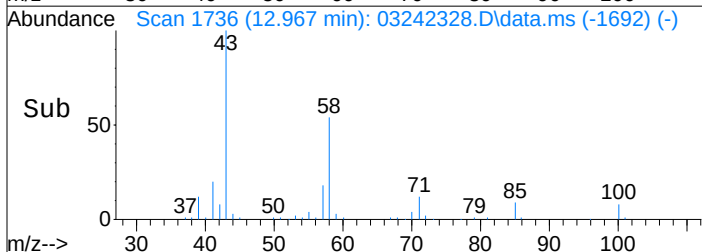
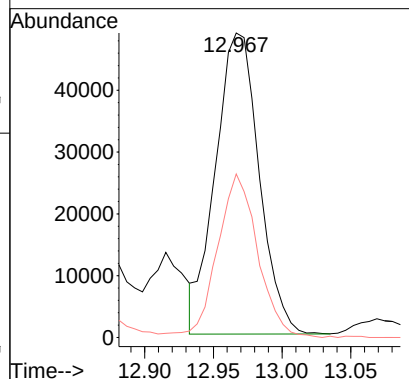
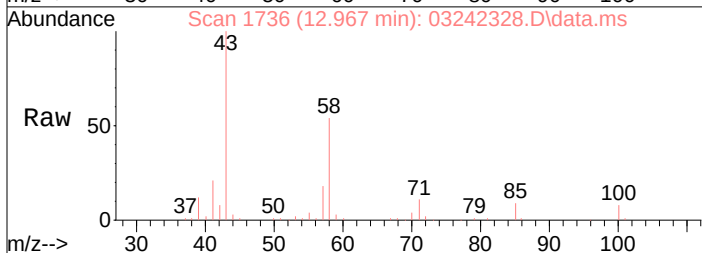
#58
Toluene
Concen: 2.55 ng
RT: 12.61 min Scan# 1673
Delta R.T. -0.011 min
Lab File: 03242328.D
Acq: 24 Mar 2023 22:50

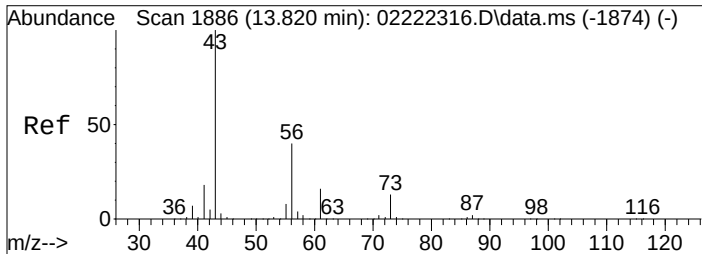
Tgt Ion: 91 Resp: 253833
Ion Ratio Lower Upper
91 100
92 57.4 38.0 78.0



#59
2-Hexanone
Concen: 2.23 ng
RT: 12.97 min Scan# 1736
Delta R.T. 0.000 min
Lab File: 03242328.D
Acq: 24 Mar 2023 22:50

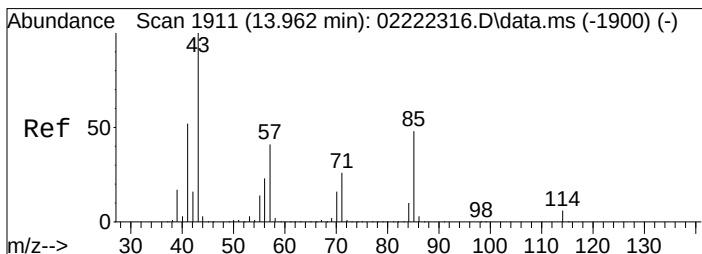
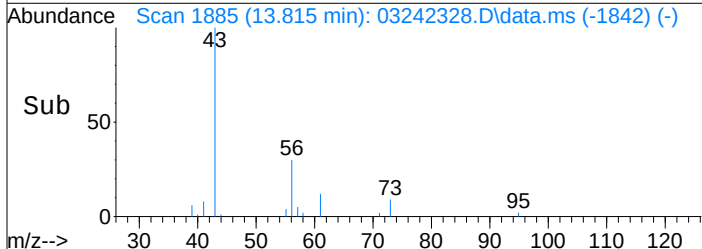
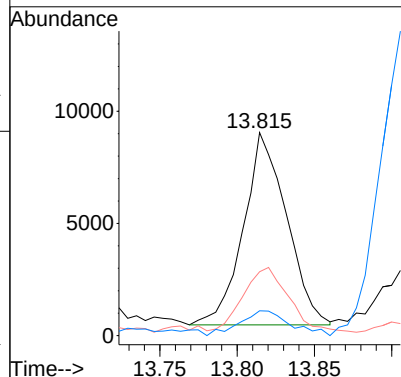
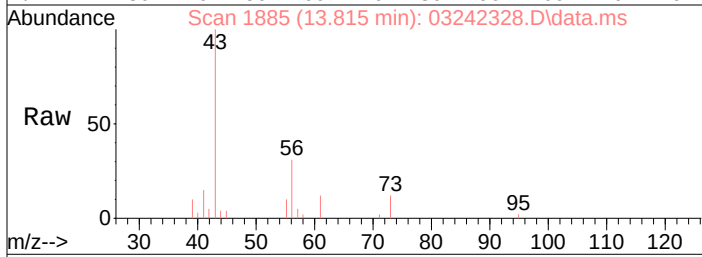
Tgt Ion: 43 Resp: 107676
Ion Ratio Lower Upper
43 100
58 49.9 34.5 74.5





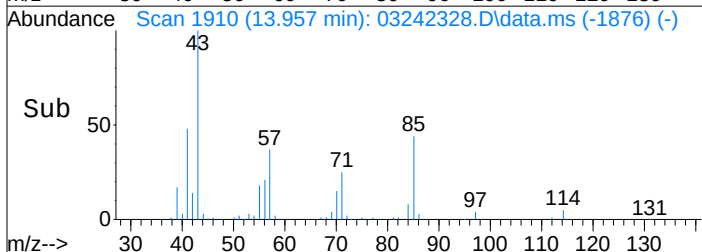
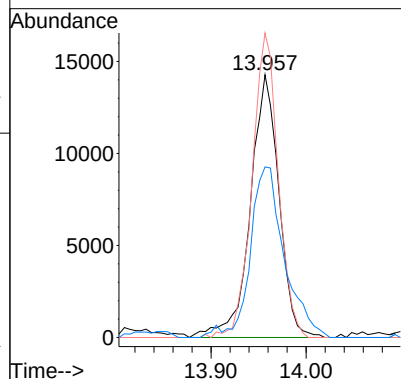
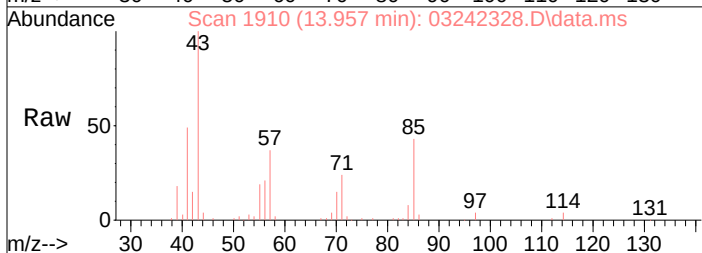
#62
 n-Butyl Acetate
 Concen: 0.30 ng
 RT: 13.81 min Scan# 1885
 Delta R.T. -0.006 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 22:50

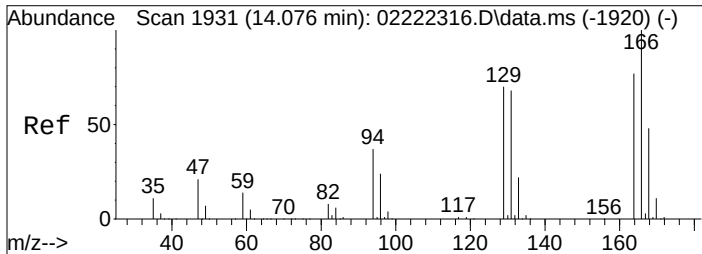
Tgt Ion:	43	Resp:	16678
Ion Ratio		Lower	Upper
43	100		
56	37.1	20.0	60.0
73	14.9	0.0	33.2



#63
 n-Octane
 Concen: 1.53 ng
 RT: 13.96 min Scan# 1910
 Delta R.T. -0.006 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 22:50

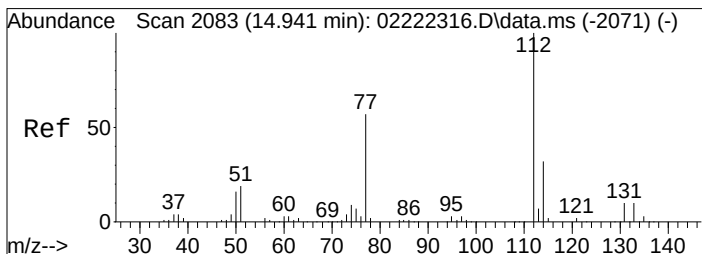
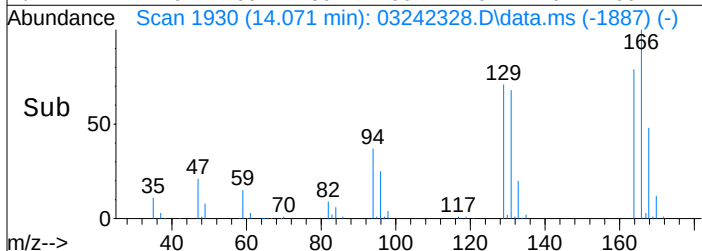
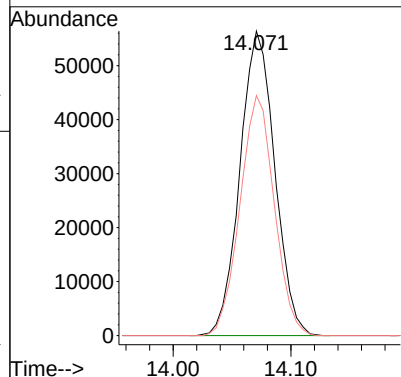
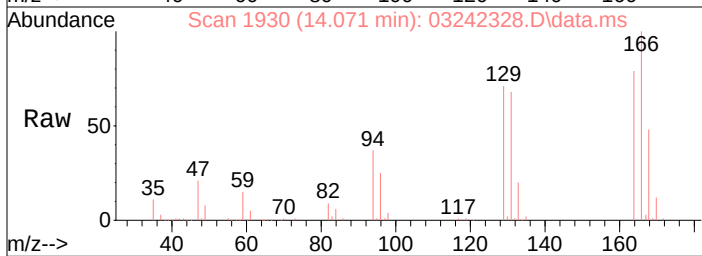
Tgt Ion:	57	Resp:	29928
Ion Ratio		Lower	Upper
57	100		
85	106.0	94.1	141.1
71	75.3	52.6	79.0





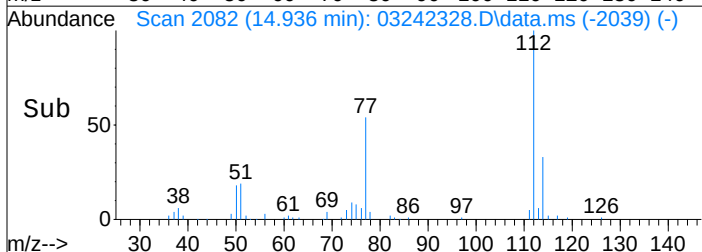
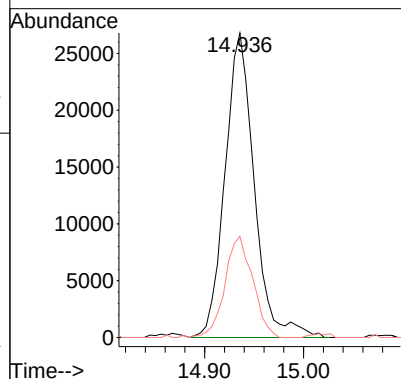
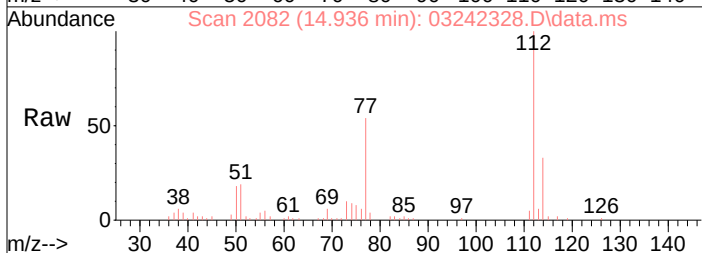
#64
 Tetrachloroethene
 Concen: 3.83 ng
 RT: 14.07 min Scan# 1930
 Delta R.T. -0.006 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 22:50

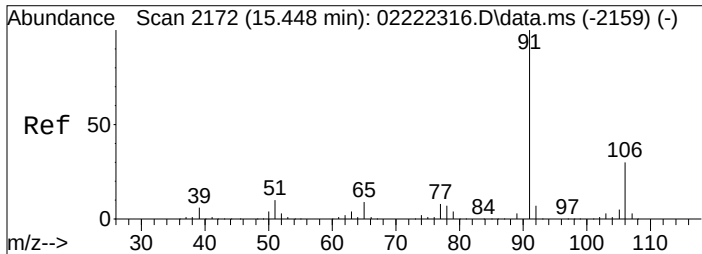
Tgt Ion	166	Resp	115928
Ion Ratio	100	Lower	Upper
164	77.7	57.3	97.3



#65
 Chlorobenzene
 Concen: 0.84 ng
 RT: 14.94 min Scan# 2082
 Delta R.T. -0.006 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 22:50

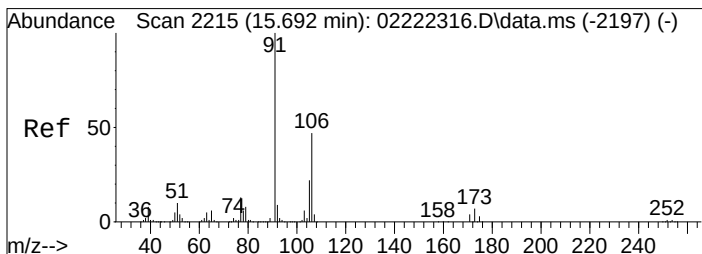
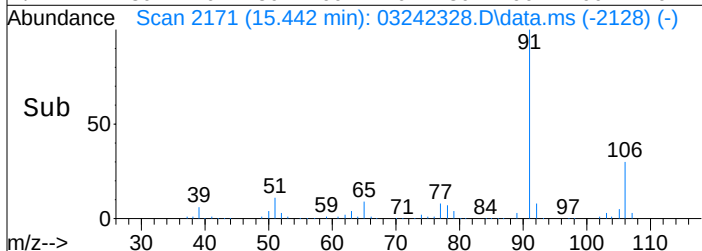
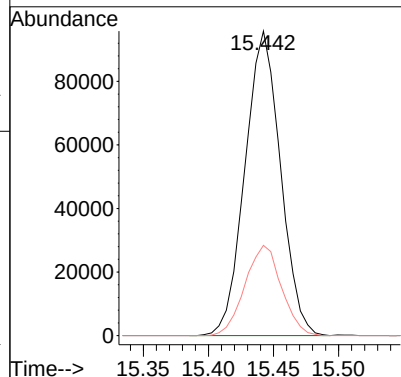
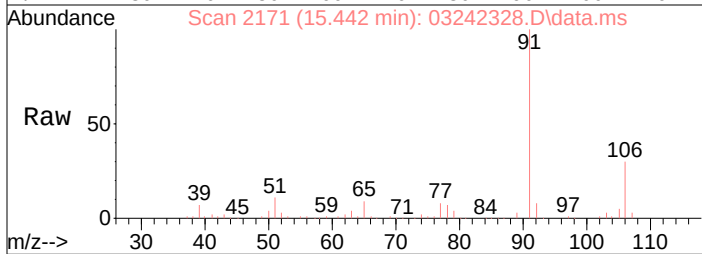
Tgt Ion	112	Resp	55070
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
114	31.7	12.1	52.1





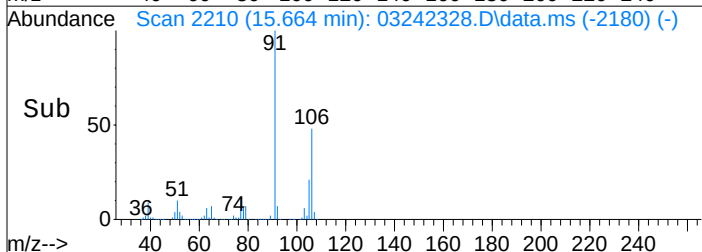
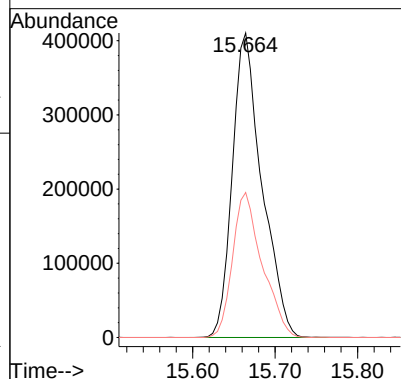
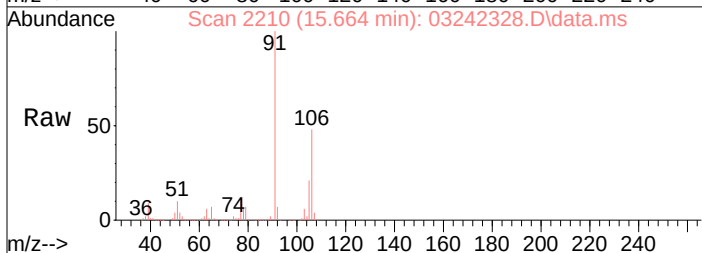
#66
 Ethylbenzene
 Concen: 1.53 ng
 RT: 15.44 min Scan# 2171
 Delta R.T. -0.006 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 22:50

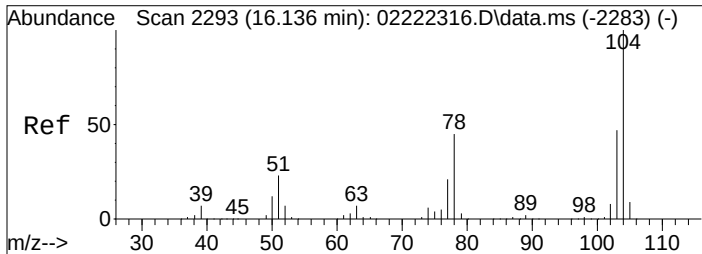
Tgt Ion: 91 Resp: 181626
 Ion Ratio Lower Upper
 91 100
 106 30.5 10.4 50.4



#67
 m- & p-Xylenes
 Concen: 10.72 ng
 RT: 15.66 min Scan# 2210
 Delta R.T. -0.028 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 22:50

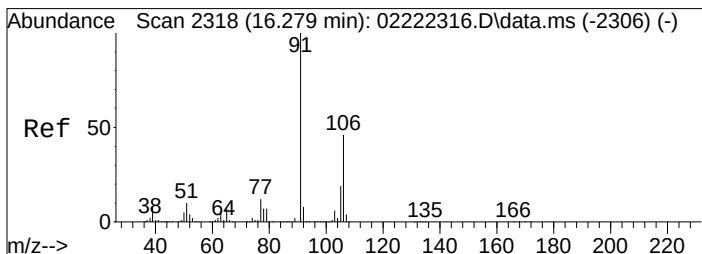
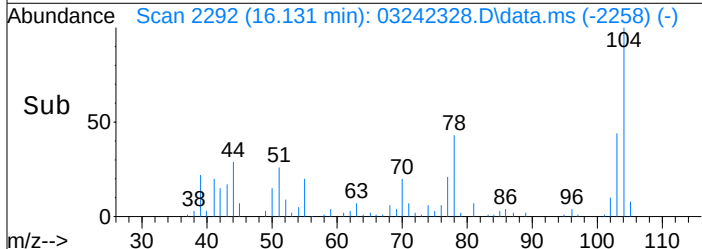
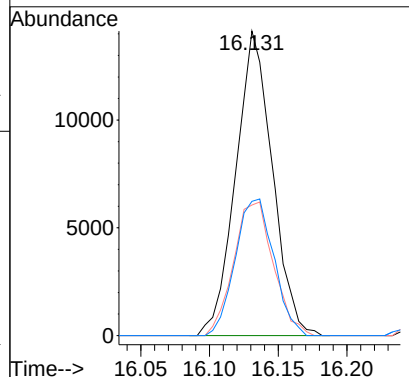
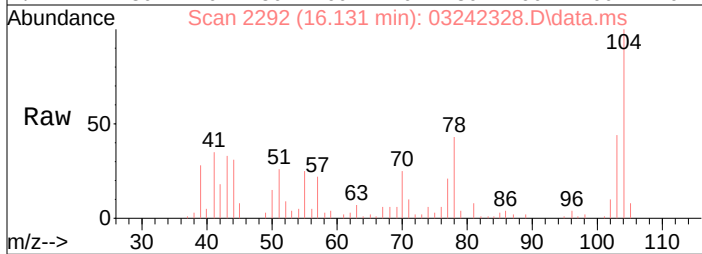
Tgt Ion: 91 Resp: 1023481
 Ion Ratio Lower Upper
 91 100
 106 47.7 26.2 66.2





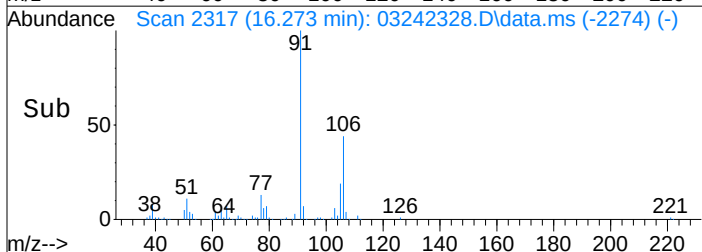
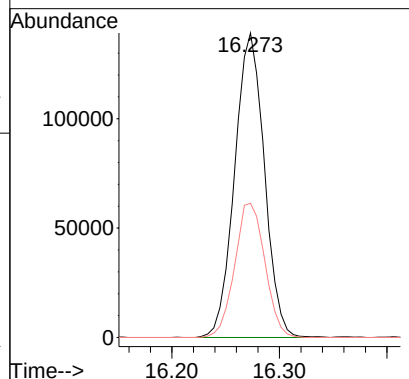
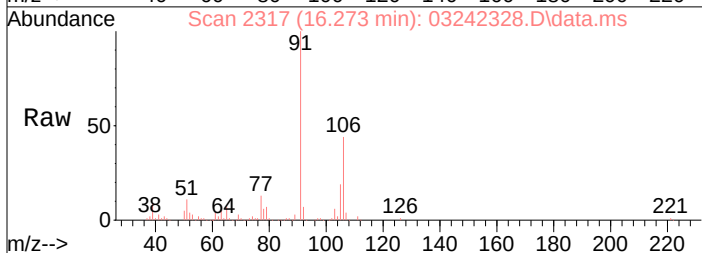
#69
Styrene
Concen: 0.40 ng
RT: 16.13 min Scan# 2292
Delta R.T. -0.006 min
Lab File: 03242328.D
Acq: 24 Mar 2023 22:50

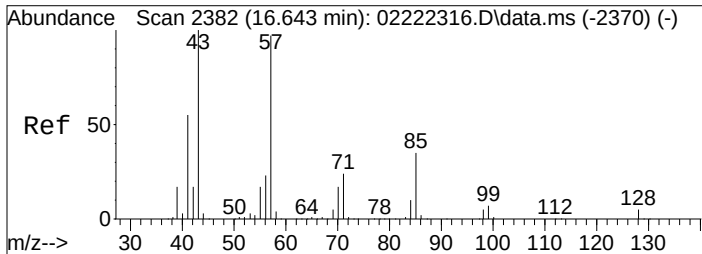
Tgt Ion: 104	Resp: 26223
Ion Ratio	Lower Upper
104 100	
78 47.6	24.7 64.7
103 47.2	27.8 67.8



#70
o-Xylene
Concen: 2.93 ng
RT: 16.27 min Scan# 2317
Delta R.T. -0.006 min
Lab File: 03242328.D
Acq: 24 Mar 2023 22:50

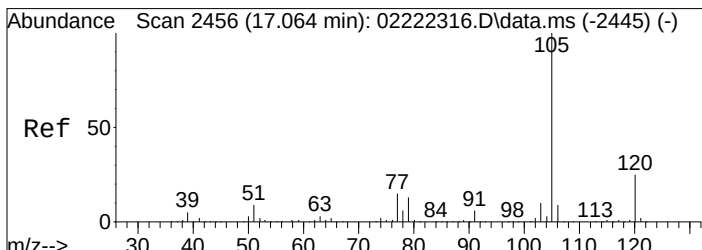
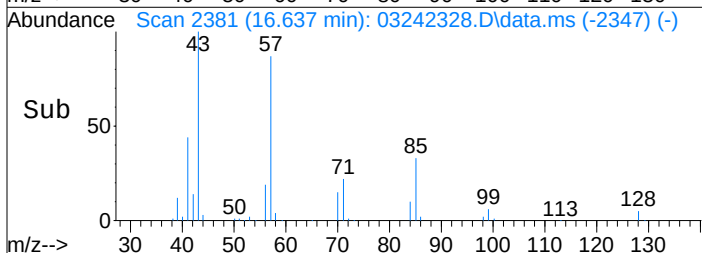
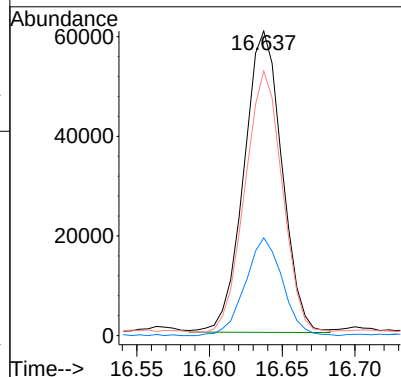
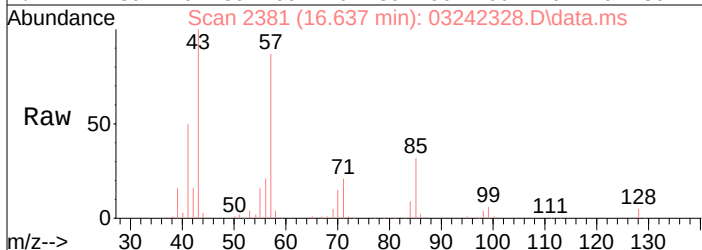
Tgt Ion: 91	Resp: 267220
Ion Ratio	Lower Upper
91 100	
106 44.9	25.4 65.4





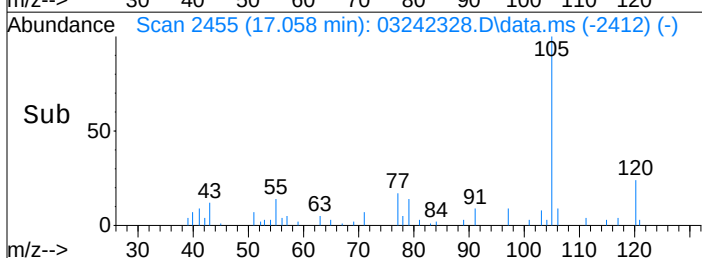
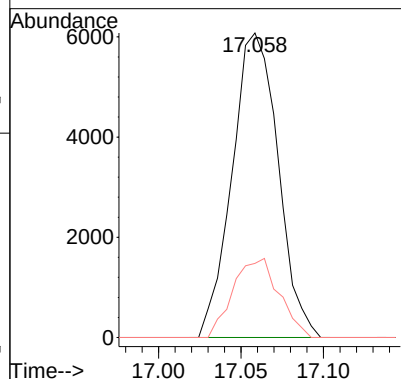
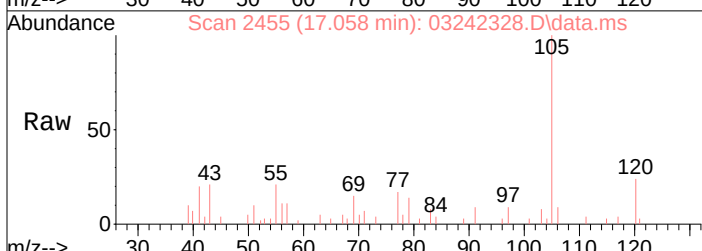
#71
n-Nonane
Concen: 2.49 ng
RT: 16.64 min Scan# 2381
Delta R.T. -0.006 min
Lab File: 03242328.D
Acq: 24 Mar 2023 22:50

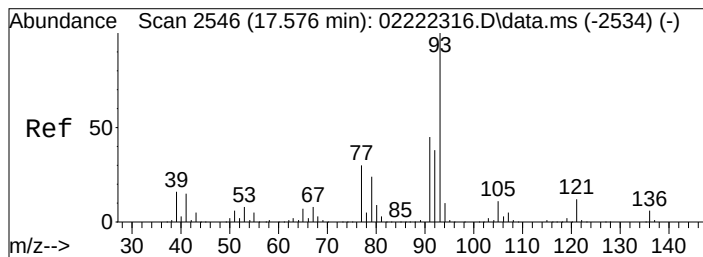
Tgt Ion:	43	Resp:	110006
Ion Ratio	Lower	Upper	
43	100		
57	86.4	74.2	114.2
85	31.7	14.2	54.2



#74
Cumene
Concen: 0.11 ng
RT: 17.06 min Scan# 2455
Delta R.T. -0.006 min
Lab File: 03242328.D
Acq: 24 Mar 2023 22:50

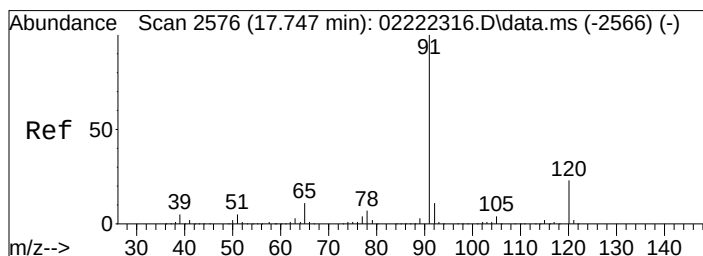
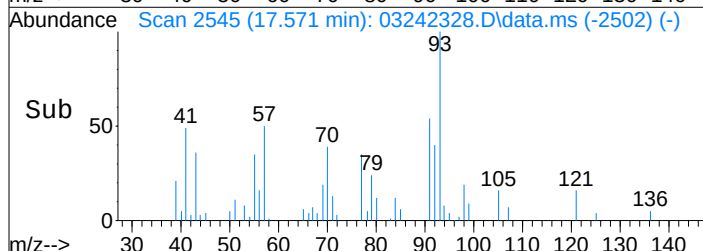
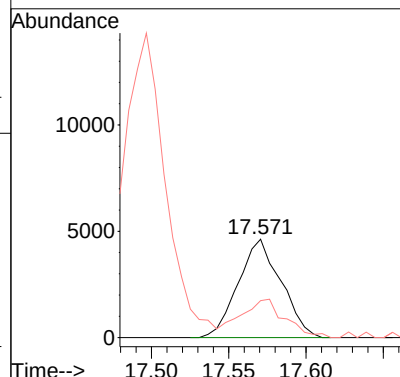
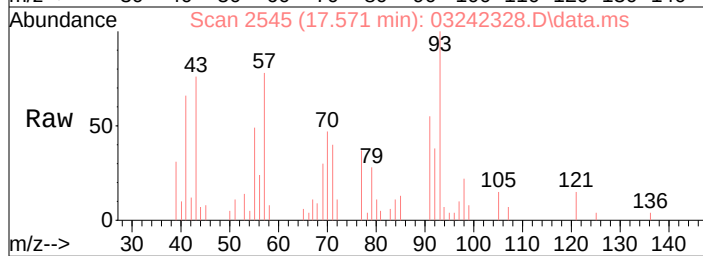
Tgt Ion:	105	Resp:	11796
Ion Ratio	Lower	Upper	
105	100		
120	25.9	5.2	45.2





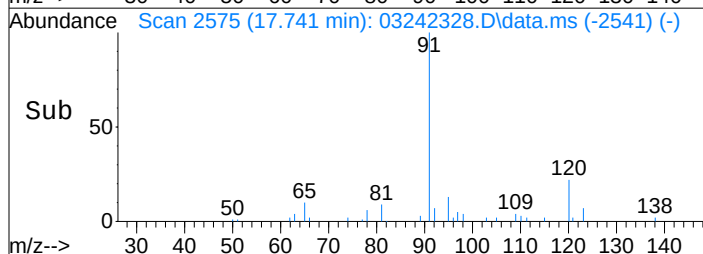
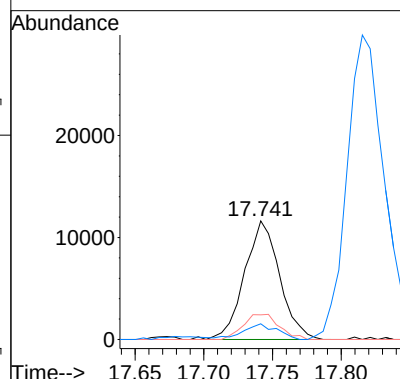
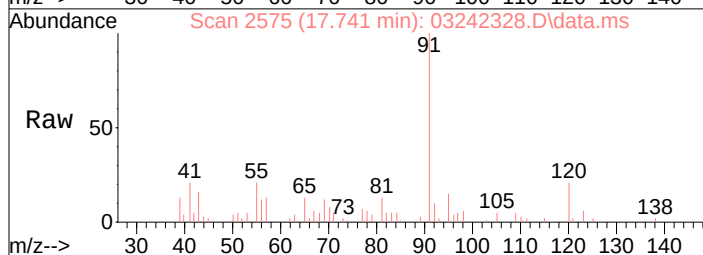
#75
 alpha-Pinene
 Concen: 0.17 ng
 RT: 17.57 min Scan# 2545
 Delta R.T. -0.006 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 22:50

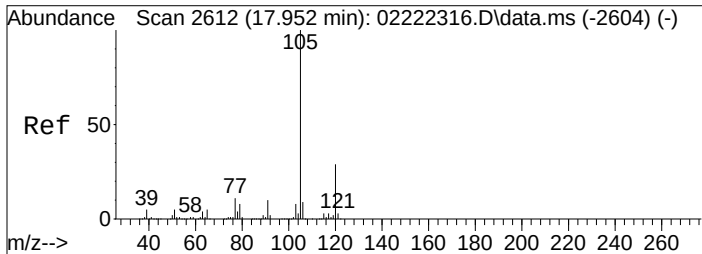
Tgt Ion	93	Resp	8942
Ion Ratio	100	Lower	Upper
77	40.7	11.1	51.1



#76
 n-Propylbenzene
 Concen: 0.16 ng
 RT: 17.74 min Scan# 2575
 Delta R.T. -0.006 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 22:50

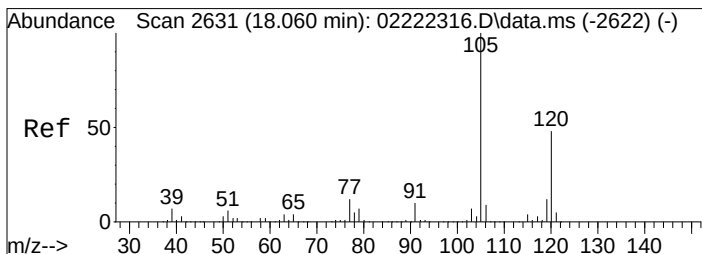
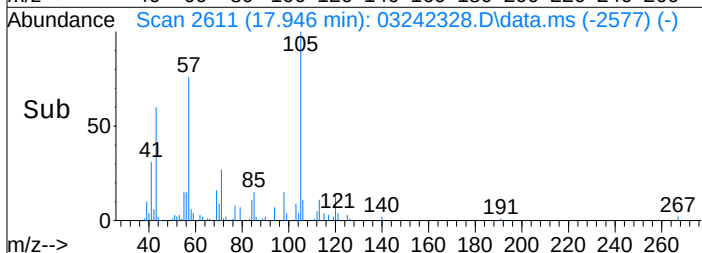
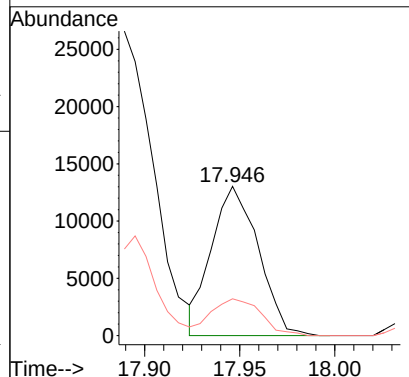
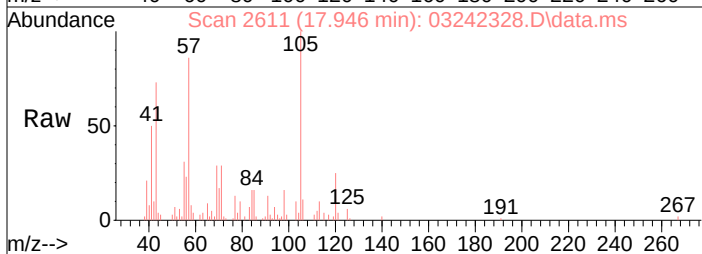
Tgt Ion	91	Resp	20705
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
120	21.8	2.7	42.7
65	12.6	0.0	30.7





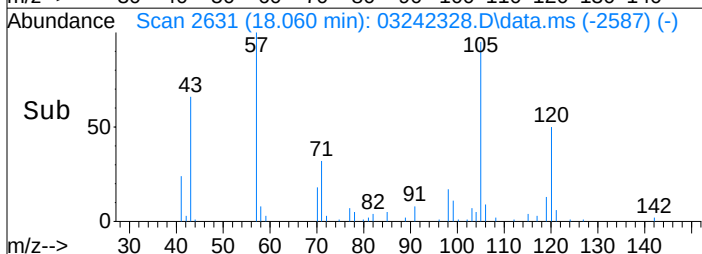
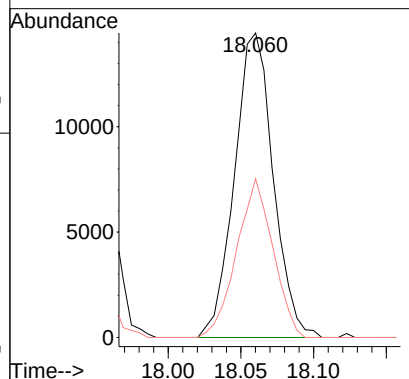
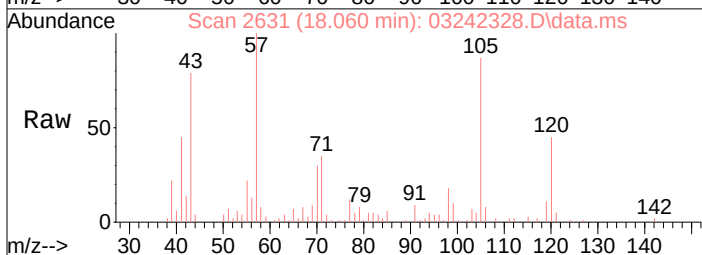
#78
 4-Ethyltoluene
 Concen: 0.21 ng
 RT: 17.95 min Scan# 2611
 Delta R.T. -0.006 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 22:50

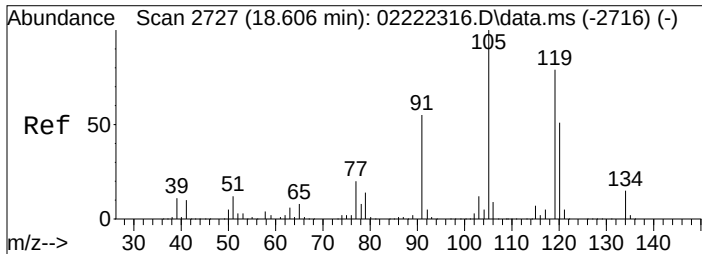
Tgt Ion:105 Resp: 22375
 Ion Ratio Lower Upper
 105 100
 120 26.3 9.1 49.1



#79
 1,3,5-Trimethylbenzene
 Concen: 0.28 ng
 RT: 18.06 min Scan# 2631
 Delta R.T. 0.000 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 22:50

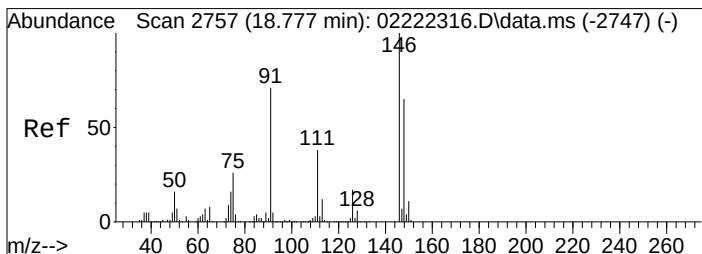
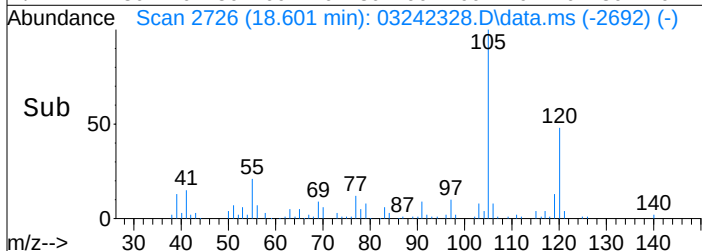
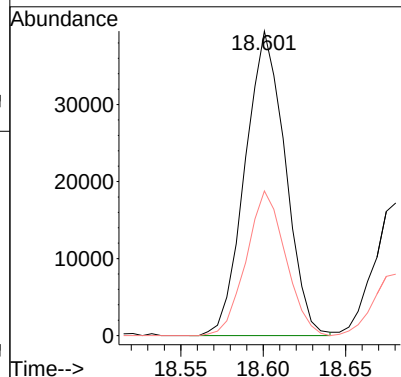
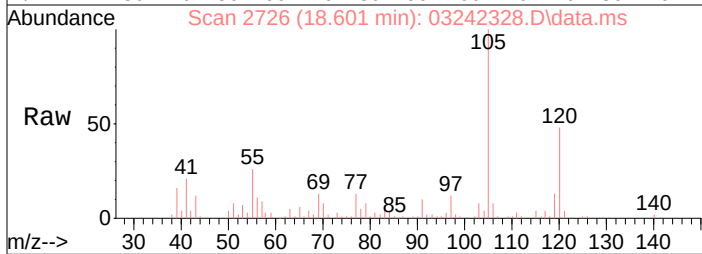
Tgt Ion:105 Resp: 26768
 Ion Ratio Lower Upper
 105 100
 120 48.9 28.4 68.4





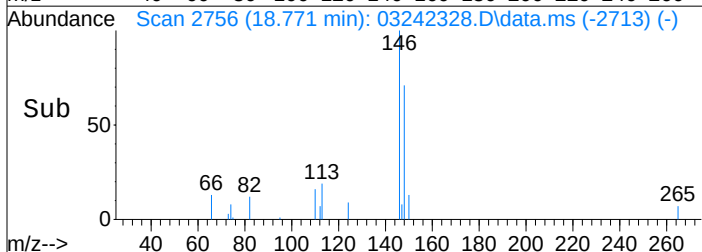
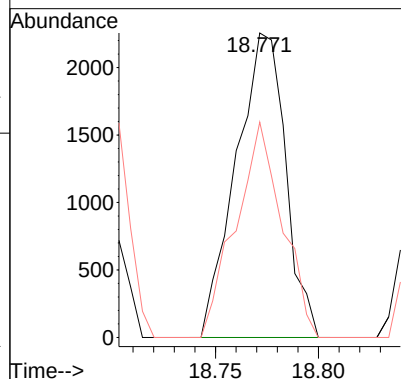
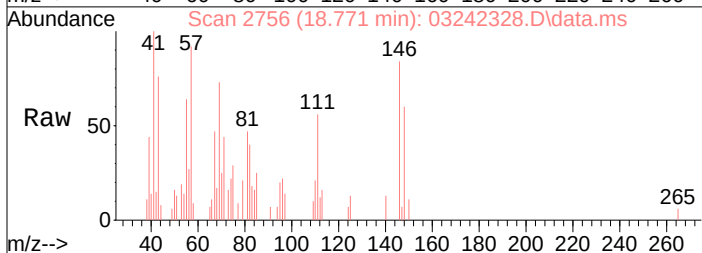
#82
 1,2,4-Trimethylbenzene
 Concen: 0.72 ng
 RT: 18.60 min Scan# 2726
 Delta R.T. -0.006 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 22:50

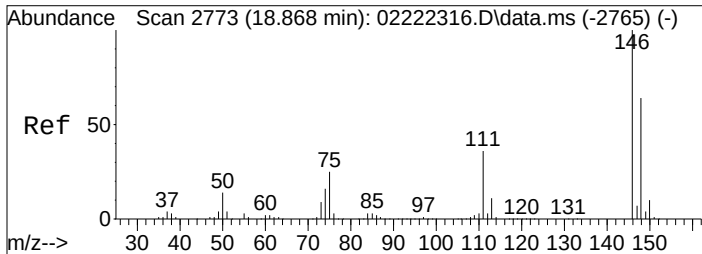
Tgt Ion:	105	Resp:	67084
Ion Ratio		Lower	Upper
105	100		
120	46.4	32.8	72.8



#85
 1,3-Dichlorobenzene
 Concen: 0.07 ng
 RT: 18.77 min Scan# 2756
 Delta R.T. -0.006 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 22:50

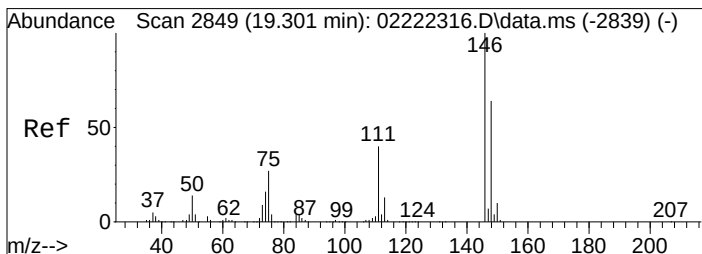
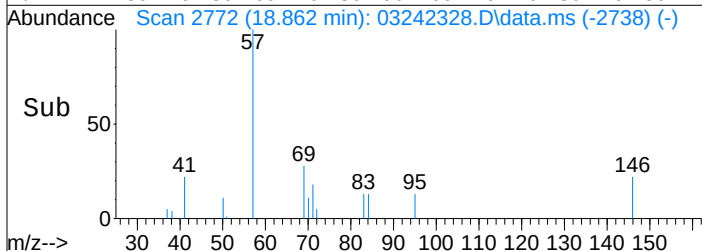
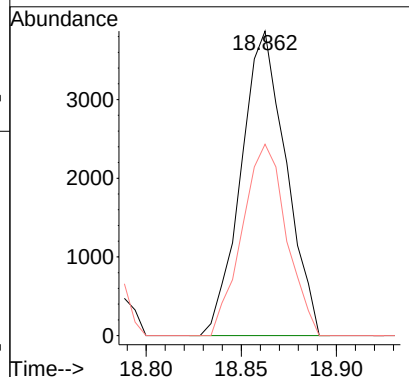
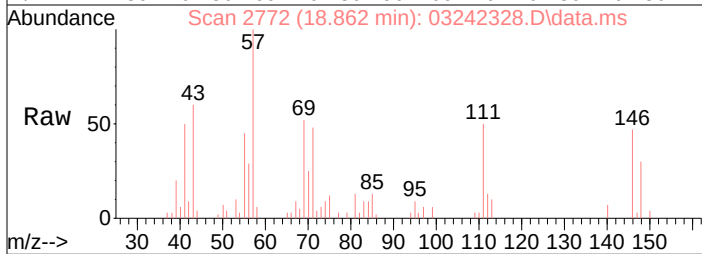
Tgt Ion:	146	Resp:	3769
Ion Ratio		Lower	Upper
146	100		
148	66.4	44.4	84.4





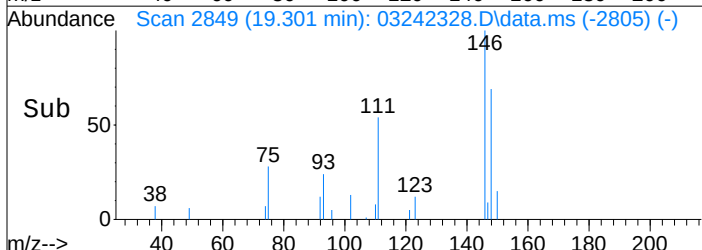
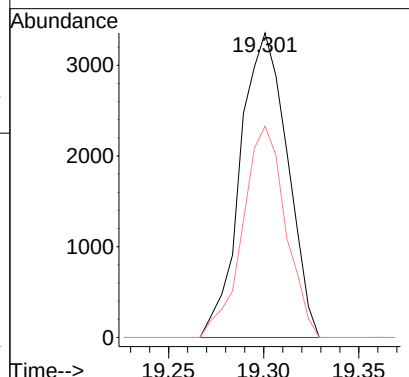
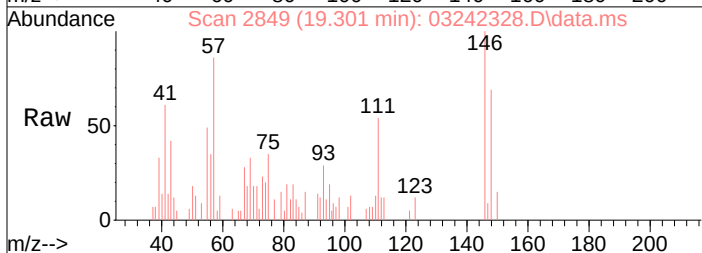
#86
 1,4-Dichlorobenzene
 Concen: 0.11 ng
 RT: 18.86 min Scan# 2772
 Delta R.T. -0.006 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 22:50

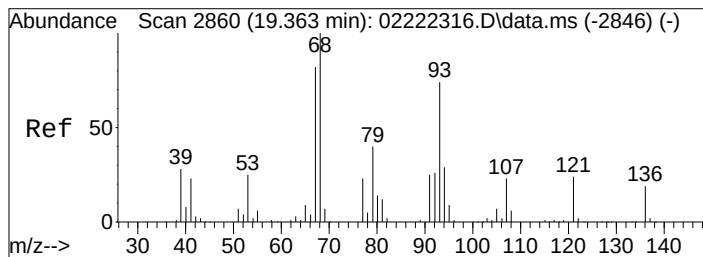
Tgt Ion:146 Resp: 6384
 Ion Ratio Lower Upper
 146 100
 148 61.7 44.7 84.7



#90
 1,2-Dichlorobenzene
 Concen: 0.10 ng
 RT: 19.30 min Scan# 2849
 Delta R.T. 0.000 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 22:50

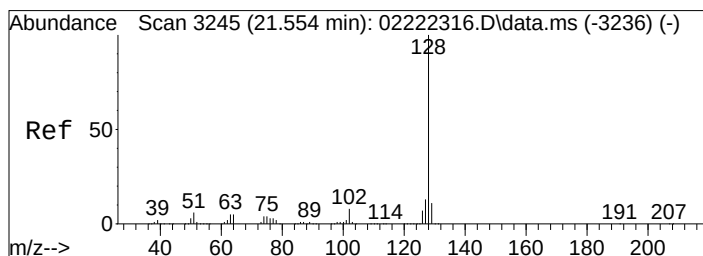
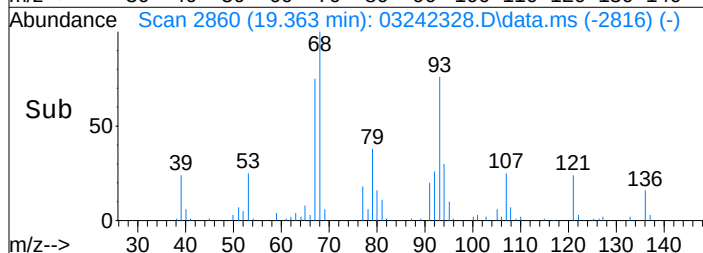
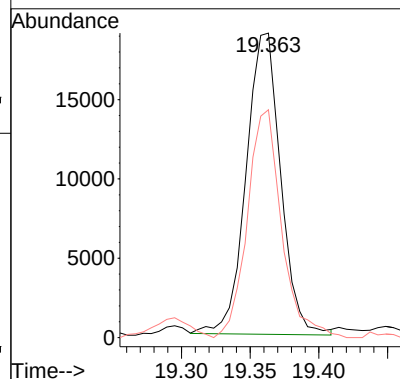
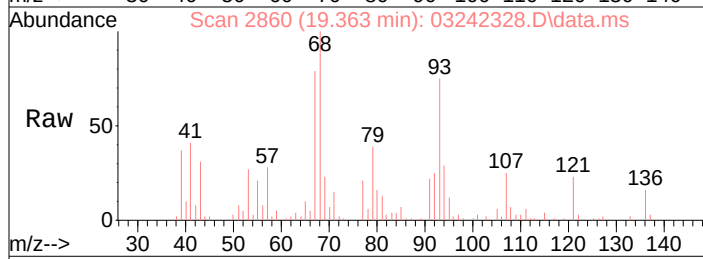
Tgt Ion:146 Resp: 5766
 Ion Ratio Lower Upper
 146 100
 148 63.5 44.4 84.4





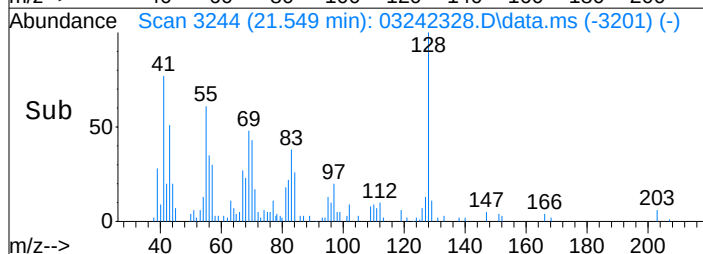
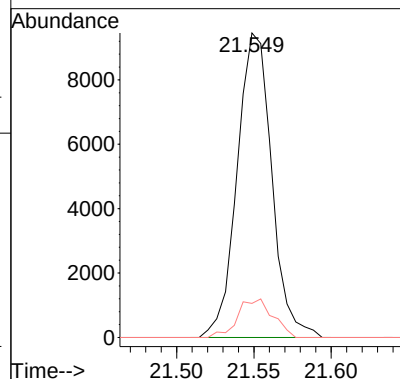
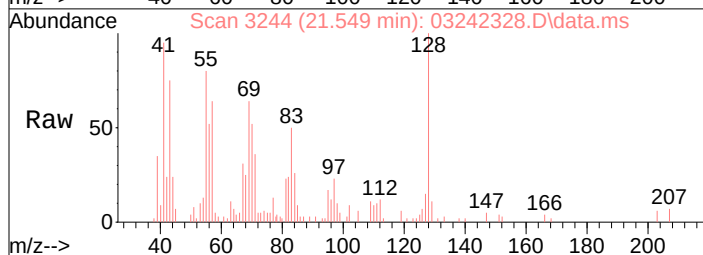
#91
d-Limonene
Concen: 1.06 ng
RT: 19.36 min Scan# 2860
Delta R.T. 0.000 min
Lab File: 03242328.D
Acq: 24 Mar 2023 22:50

Tgt Ion: 68 Resp: 33303
Ion Ratio Lower Upper
68 100
93 74.7 54.8 94.8



#95
Naphthalene
Concen: 0.15 ng
RT: 21.55 min Scan# 3244
Delta R.T. -0.006 min
Lab File: 03242328.D
Acq: 24 Mar 2023 22:50

Tgt Ion: 128 Resp: 14783
Ion Ratio Lower Upper
128 100
129 12.8 0.0 30.9



Data File : I:\MS13\DATA\2023_03\24\03242328.D
 Acq On : 24 Mar 2023 22:50
 Sample : P2301250-023 (1000mL)
 Misc : S35-01202301

Vial: 12
 Operator: TZ
 Inst : MS13

TZ 3/28/23

Quant Time: Mar 28 10:04:06 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.34	130	248856	12.500	ng	0.02
16) 1,4-Difluorobenzene (C_2)	9.38	114	1089688	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	14.88	54	203040	12.500	ng	0.00

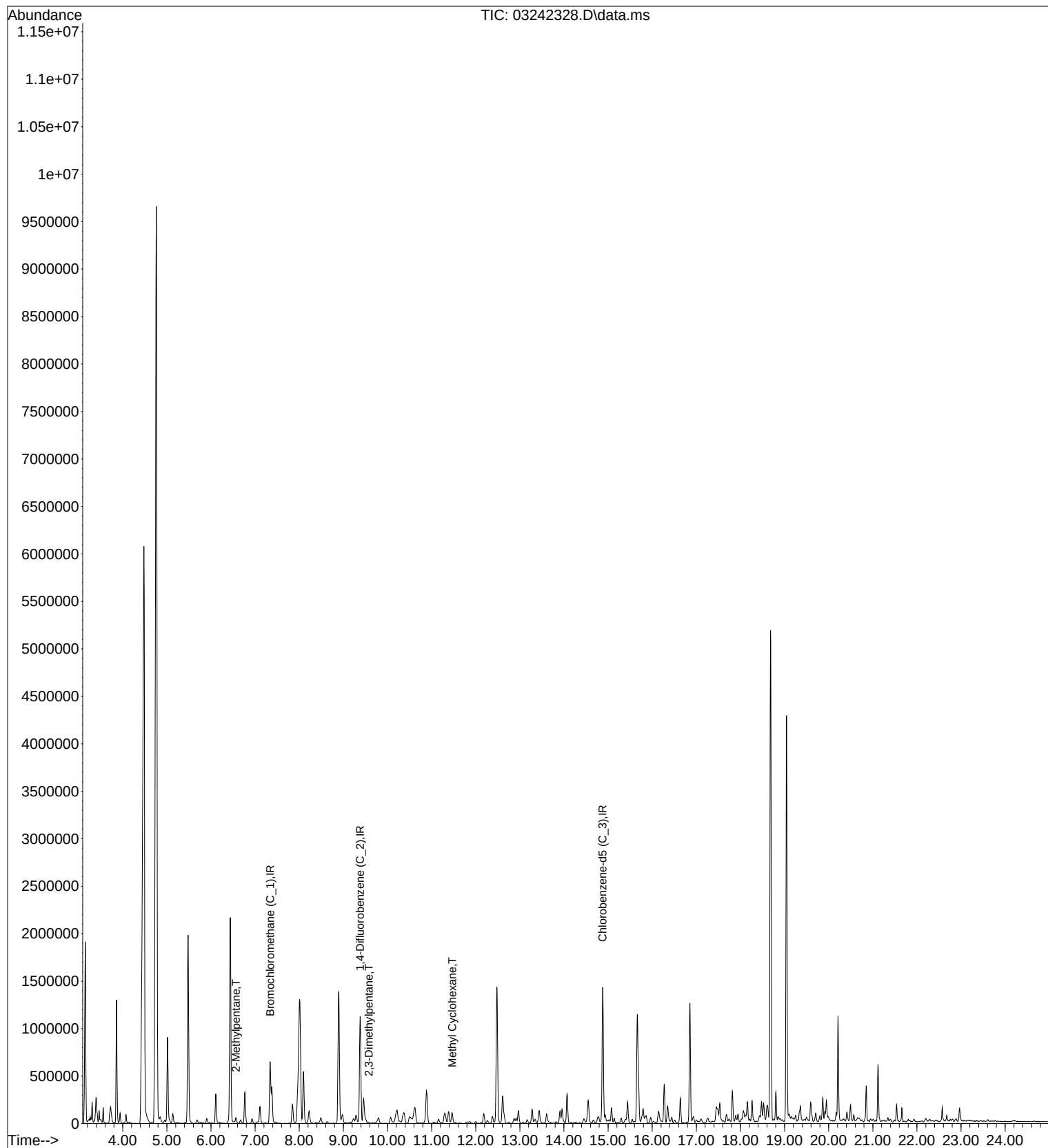
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.25	85	917	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	0.00	83	0	N.D.	d	
4) 1,1-Difluoroethane	3.34	65	81	N.D.		
5) Chlorodifluoromethane ...	0.00	67	0	N.D.	d	
6) 1-Chloro-1,1-Difluoroe...	3.59	65	2613	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	0.00	43	0	N.D.	d	
12) 2-Methylpentane	6.57	71	13148	0.756	ng	# 18
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	8.90	75	276	N.D.		
15) Thiophene	9.17	84	1359	N.D.		
17) 2,3-Dimethylpentane	9.58	56	5062	0.158	ng	# 68
18) Dibromomethane	9.87	174	434	N.D.		
20) Methyl Cyclohexane	11.47	55	42158	1.247	ng	# 68
21) 1,3-Dichloropropane	12.64	76	3394	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	15.23	91	816	N.D.		
24) 1,2,3-Trichloropropane	0.00	75	0	N.D.	d	
25) Bromobenzene	17.13	77	54	N.D.		
26) 2-Chlorotoluene	17.67	91	321	N.D.		
27) 4-Chlorotoluene	0.00	91	0	N.D.	d	
28) Indane	19.39	117	6610	N.D.		
29) Indene	19.51	115	2215	N.D.		
30) 1,2,4,5-Tetramethylben...	20.64	119	6294	N.D.		
31) 1,2,3,4-Tetramethylben...	20.70	119	7248	N.D.		
32) 1,2,3,5-Tetramethylben...	21.14	119	4099	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242328.D
Acq On : 24 Mar 2023 22:50
Sample : P2301250-023 (1000mL)
Misc : S35-01202301

Vial: 12
Operator: TZ
Inst : MS13

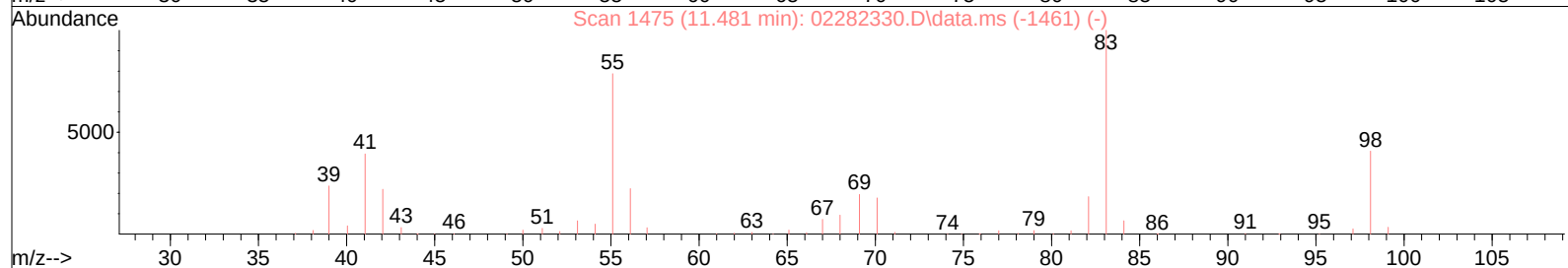
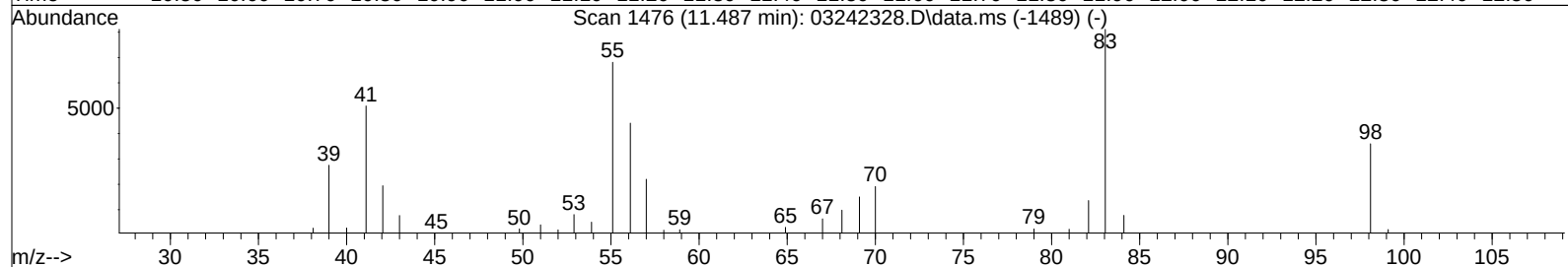
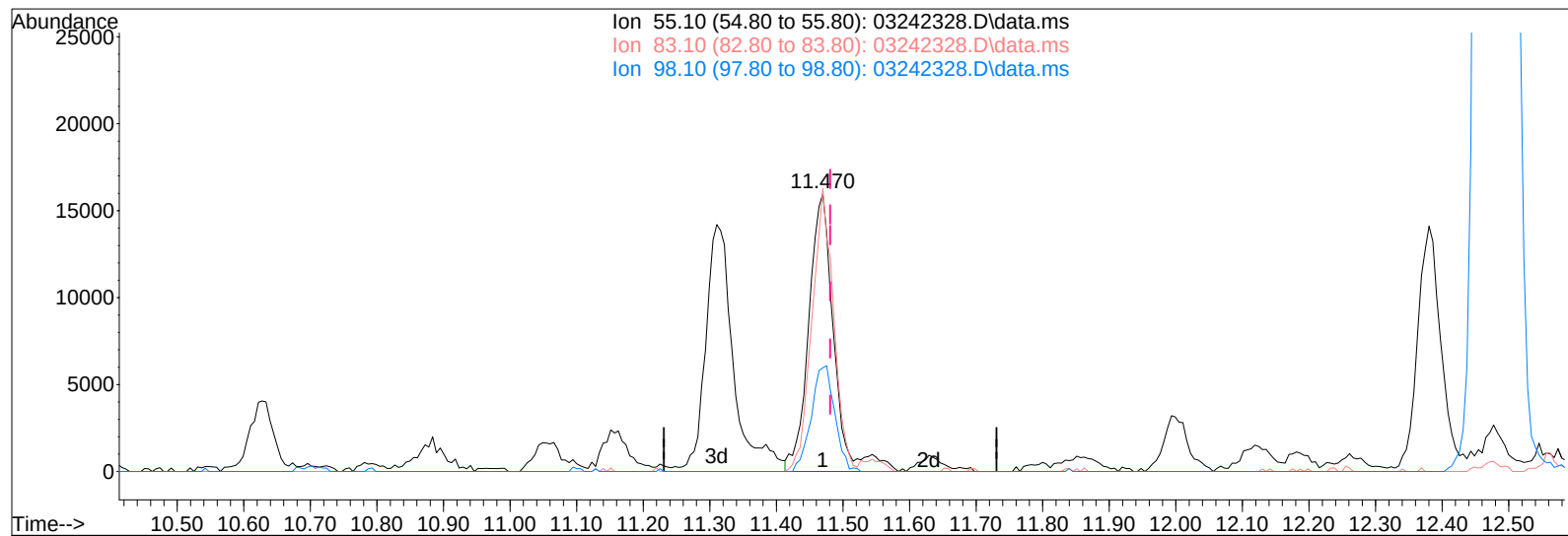
Quant Time: Mar 28 10:04:06 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242328.D
Acq On : 24 Mar 2023 22:50
Sample : P2301250-023 (1000mL)
Misc : S35-01202301

Vial: 12
Operator: TZ
Inst : MS13

Quant Time: Mar 27 16:04:20 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03242328.D\data.ms

(20) Methyl Cyclohexane (T)

11.470min (-0.011) 1.25ng

response 42158

Ion	Exp%	Act%
55.10	100	100
83.10	128.30	87.32#
98.10	53.10	35.37#
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG34-2

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-024

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00640

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.19 Final Pressure (psig): 3.81

Container Dilution Factor: 1.76

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	0.93	0.15	0.45	0.19	0.031	
74-87-3	Chloromethane	ND	0.37	0.15	ND	0.18	0.073	
75-01-4	Vinyl Chloride	ND	0.19	0.10	ND	0.076	0.039	
74-83-9	Bromomethane	ND	0.37	0.13	ND	0.095	0.034	
75-00-3	Chloroethane	ND	0.37	0.12	ND	0.14	0.044	
67-64-1	Acetone	240	9.3	2.1	100	3.9	0.89	
75-69-4	Trichlorofluoromethane	1.1	0.92	0.14	0.20	0.16	0.025	
75-35-4	1,1-Dichloroethene	ND	0.19	0.13	ND	0.049	0.033	
75-09-2	Methylene Chloride	3.4	0.93	0.26	0.98	0.27	0.076	
76-13-1	Trichlorotrifluoroethane	0.50	0.95	0.13	0.066	0.12	0.017	J
75-15-0	Carbon Disulfide	ND	1.9	0.28	ND	0.60	0.090	
156-60-5	trans-1,2-Dichloroethene	ND	0.19	0.13	ND	0.049	0.033	
75-34-3	1,1-Dichloroethane	ND	0.19	0.14	ND	0.048	0.034	
1634-04-4	Methyl tert-Butyl Ether	ND	0.95	0.11	ND	0.26	0.031	
78-93-3	2-Butanone (MEK)	8.4	1.8	0.19	2.8	0.62	0.066	
156-59-2	cis-1,2-Dichloroethene	ND	0.19	0.13	ND	0.049	0.033	
67-66-3	Chloroform	3.6	0.19	0.12	0.75	0.040	0.026	
107-06-2	1,2-Dichloroethane	ND	0.19	0.10	ND	0.048	0.026	
71-55-6	1,1,1-Trichloroethane	5.5	0.19	0.12	1.0	0.035	0.021	
71-43-2	Benzene	0.36	0.19	0.14	0.11	0.061	0.042	
56-23-5	Carbon Tetrachloride	0.29	0.19	0.13	0.046	0.031	0.021	
110-82-7	Cyclohexane	ND	1.8	0.26	ND	0.54	0.077	
78-87-5	1,2-Dichloropropane	ND	0.19	0.12	ND	0.042	0.025	
75-27-4	Bromodichloromethane	ND	0.19	0.14	ND	0.029	0.020	
79-01-6	Trichloroethene	64	0.19	0.13	12	0.036	0.024	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG34-2

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-024

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00640

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.19 Final Pressure (psig): 3.81

Container Dilution Factor: 1.76

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.95	0.15	ND	0.21	0.032	
108-10-1	4-Methyl-2-pentanone	2.5	1.9	0.13	0.60	0.47	0.031	
10061-02-6	trans-1,3-Dichloropropene	ND	0.90	0.19	ND	0.20	0.043	
79-00-5	1,1,2-Trichloroethane	ND	0.19	0.095	ND	0.035	0.017	
108-88-3	Toluene	2.5	0.93	0.11	0.67	0.25	0.030	
591-78-6	2-Hexanone	2.1	1.9	0.12	0.50	0.47	0.028	
124-48-1	Dibromochloromethane	ND	0.19	0.12	ND	0.023	0.014	
106-93-4	1,2-Dibromoethane	ND	0.19	0.11	ND	0.025	0.014	
127-18-4	Tetrachloroethene	33	0.19	0.12	4.9	0.029	0.018	
108-90-7	Chlorobenzene	ND	0.93	0.12	ND	0.20	0.027	
100-41-4	Ethylbenzene	2.6	0.93	0.13	0.60	0.21	0.030	
179601-23-1	m,p-Xylenes	12	1.9	0.25	2.7	0.45	0.057	
75-25-2	Bromoform	ND	0.95	0.19	ND	0.092	0.019	
100-42-5	Styrene	0.53	0.93	0.15	0.12	0.22	0.036	J
95-47-6	o-Xylene	10	0.93	0.14	2.3	0.21	0.031	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.19	0.13	ND	0.028	0.019	
98-82-8	Cumene	9.2	0.95	0.14	1.9	0.19	0.028	
541-73-1	1,3-Dichlorobenzene	ND	0.93	0.14	ND	0.16	0.023	
106-46-7	1,4-Dichlorobenzene	0.17	0.93	0.14	0.028	0.16	0.024	J
95-50-1	1,2-Dichlorobenzene	0.15	0.95	0.14	0.025	0.16	0.023	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.9	0.18	ND	0.20	0.018	
120-82-1	1,2,4-Trichlorobenzene	ND	1.9	0.23	ND	0.26	0.031	
79-20-9	Methyl Acetate	ND	0.88	0.42	ND	0.29	0.14	X
108-87-2	Methylcyclohexane	0.80	0.88	0.46	0.20	0.22	0.11	J, X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS13\DATA\2023_03\24\03242329.D
 Acq On : 24 Mar 2023 23:26
 Sample : P2301250-024 (1000mL)
 Misc : S35-01202301

Vial: 13
 Operator: TZ
 Inst : MS13

Tz 3/27/23

Quant Time: Mar 27 14:00:00 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.33	130	246155	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	9.38	114	1092479	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	203816	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.09	65	417261	12.773	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.16%
57) Toluene-d8 (SS2)	12.48	98	1237068	11.802	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.40%
73) Bromofluorobenzene (SS3)	16.86	174	460140	11.986	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	95.92%

Target Compounds

						Qvalue
2) Propene	3.39	42	33514	1.361	ng	# 76
3) Dichlorodifluoromethan...	3.47	85	57376	1.273	ng	99
4) Chloromethane	3.61	50	1103	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	3.71	135	1401	0.062	ng	91
6) Vinyl Chloride	3.79	62	1344	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.	d	
8) Bromomethane	4.13	94	187	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	4.46	45	6976488	399.064	ng	100
11) Acetonitrile	0.00	41	0	N.D.	d	
12) Acrolein	4.65	56	3686	0.255	ng	95
13) Acetone	4.75	58	2055647	137.775	ng	99
14) Trichlorofluoromethane	4.86	101	25503	0.628	ng	99
15) 2-Propanol (Isopropanol)	5.00	45	567791	9.426	ng	100
16) Acrylonitrile	5.14	53	974	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.48	84	42190	1.929	ng	88
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	5.68	151	6106	0.286	ng	97
22) Carbon Disulfide	5.69	76	11242	0.130	ng	97
23) trans-1,2-Dichloroethene	6.24	61	475	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.	d	
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.	d	
26) Vinyl Acetate	6.54	86	2376	0.589	ng	# 77
27) 2-Butanone (MEK)	6.77	72	62843	4.745	ng	97
28) cis-1,2-Dichloroethene	7.18	61	603	N.D.		
29) Diisopropyl Ether	7.38	87	572	N.D.		
30) Ethyl Acetate	7.38	61	50845	5.838	ng	93
31) n-Hexane	7.38	57	10798	0.322	ng	94
32) Chloroform	7.46	83	82118	2.071	ng	100
34) Tetrahydrofuran (THF)	7.86	72	2334	0.172	ng	# 1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.21	62	189	N.D.		
38) 1,1,1-Trichloroethane	8.48	97	112973	3.124	ng	99
39) Isopropyl Acetate	9.38	61	31520	No Calib		
40) 1-Butanol	8.90	56	2325516	No Calib	#	
41) Benzene	8.98	78	17291	0.203	ng	85
42) Carbon Tetrachloride	9.15	117	5255	0.165	ng	98
43) Cyclohexane	9.28	84	3945	0.127	ng	88
44) tert-Amyl Methyl Ether	9.67	73	2755	N.D.		
45) 1,2-Dichloropropane	9.92	63	402	N.D.		
46) Bromodichloromethane	10.17	83	1211	N.D.		
47) Trichloroethene	10.22	130	898871	36.102	ng	99
48) 1,4-Dioxane	0.00	88	0	N.D.	d	
49) 2,2,4-Trimethylpentane...	10.20	57	3994	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.	d	

Data File : I:\MS13\DATA\2023_03\24\03242329.D
 Acq On : 24 Mar 2023 23:26
 Sample : P2301250-024 (1000mL)
 Misc : S35-01202301

Vial: 13
 Operator: TZ
 Inst : MS13

Quant Time: Mar 27 14:00:00 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.63	71	11798	0.574	ng	90
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.38	58	25615	1.398	ng	93
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.61	91	143597	1.439	ng	99
59) 2-Hexanone	12.97	43	56749	1.171	ng	92
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	13.44	107	215	N.D.		
62) n-Butyl Acetate	13.82	43	15634	0.284	ng	94
63) n-Octane	13.96	57	12897	0.657	ng	87
64) Tetrachloroethene	14.07	166	572865	18.871	ng	99
65) Chlorobenzene	14.94	112	3920	0.060	ng	91
66) Ethylbenzene	15.44	91	177023	1.487	ng	99
67) m- & p-Xylenes	15.66	91	629191	6.567	ng	98
68) Bromoform	15.72	173	136	N.D.		
69) Styrene	16.13	104	19704	0.299	ng	98
70) o-Xylene	16.27	91	529500	5.780	ng	99
71) n-Nonane	16.64	43	32301	0.729	ng	92
72) 1,1,2,2-Tetrachloroethane	16.23	83	1079	N.D.		
74) Cumene	17.06	105	581908	5.223	ng	100
75) alpha-Pinene	17.57	93	6012	0.117	ng	89
76) n-Propylbenzene	17.74	91	892885	6.685	ng	99
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	729759	6.828	ng	100
79) 1,3,5-Trimethylbenzene	18.06	105	2098305	22.200	ng	100
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.61	105	2905335	31.173	ng	89
83) n-Decane	17.06	58	7054	No Calib		
84) Benzyl Chloride	18.75	91	1111	N.D.		
85) 1,3-Dichlorobenzene	18.78	146	3077	0.055	ng	90
86) 1,4-Dichlorobenzene	18.86	146	5480	0.094	ng	100
87) sec-Butylbenzene	0.00	105	0	N.D.	d	
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.	d	
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.30	146	4659	0.084	ng	91
91) d-Limonene	19.36	68	24468	0.776	ng	90
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.26	58	3659	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	353	N.D.		
95) Naphthalene	21.55	128	16291	0.161	ng	91
96) n-Dodecane	19.15	58	18433	No Calib	#	
97) Hexachlorobutadiene	21.98	225	182	N.D.		
98) Cyclohexanone	15.68	55	2893	No Calib	#	
99) tert-Butylbenzene	0.00	119	0	N.D.	d	
100) n-Butylbenzene	0.00	91	0	N.D.	d	
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Vial: 13
Operator: TZ
Inst : MS13

Quant Time: Mar 27 14:00:00 2023

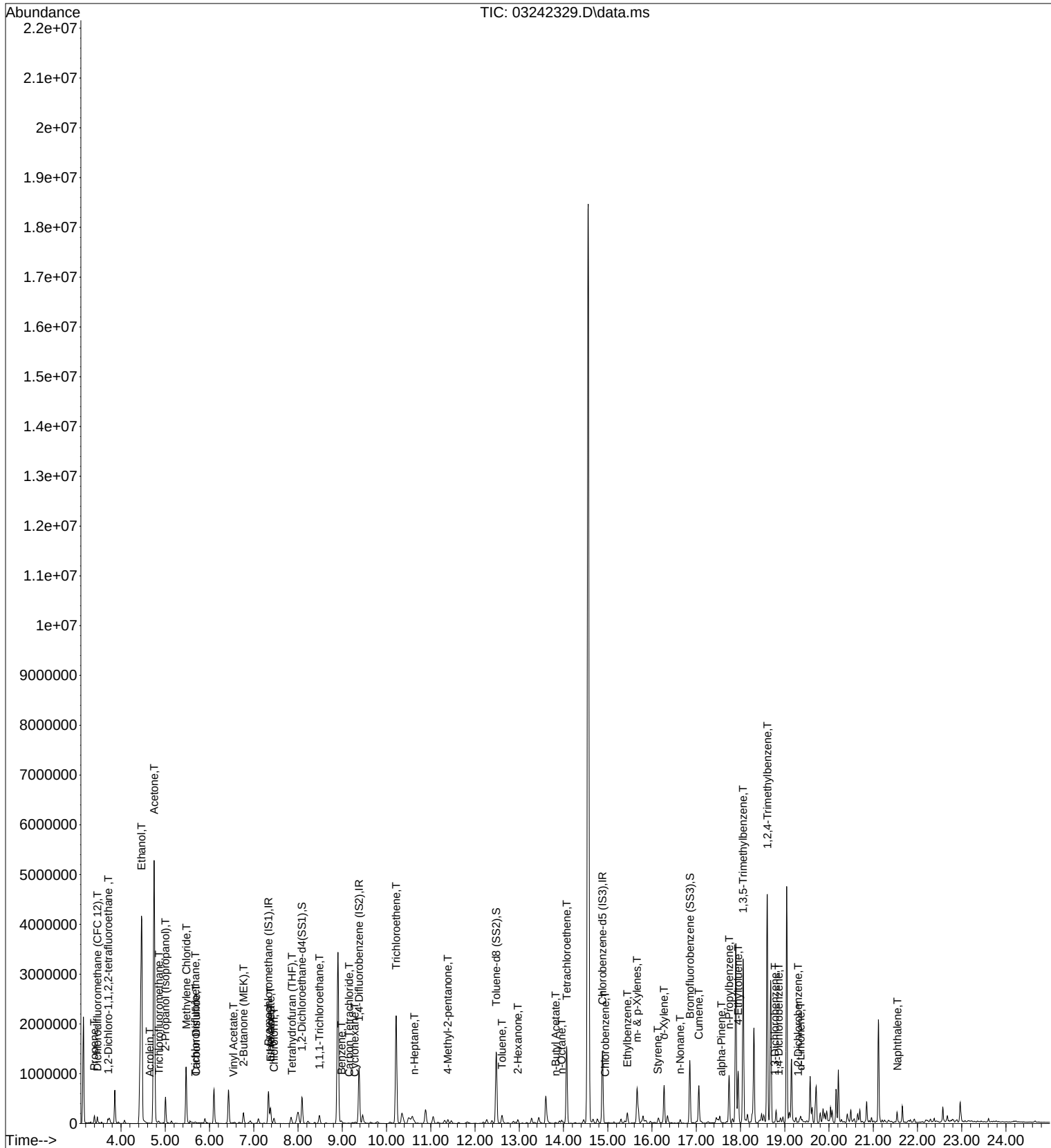
Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA T0-15 per SOP V0A-T015 (CASS T0-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242329.D
 Acq On : 24 Mar 2023 23:26
 Sample : P2301250-024 (1000mL)
 Misc : S35-01202301

Vial: 13
 Operator: TZ
 Inst : MS13

TZ 3/27/23

Quant Time: Mar 27 14:00:00 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.33	130	246155	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	9.38	114	1092479	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	203816	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.09	65	417261	12.773	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.16%
57) Toluene-d8 (SS2)	12.48	98	1237068	11.802	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.40%
73) Bromofluorobenzene (SS3)	16.86	174	460140	11.986	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	95.92%

Target Compounds

						Qvalue
2) Propene	3.39	42	33514	1.361	ng	# 76
3) Dichlorodifluoromethan...	3.47	85	57376	1.273	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	3.71	135	1401	0.062	ng	91
10) Ethanol	4.46	45	6976488	399.064	ng	100
12) Acrolein	4.65	56	3686	0.255	ng	95
13) Acetone	4.75	58	2055647	137.775	ng	99
14) Trichlorofluoromethane	4.86	101	25503	0.628	ng	99
15) 2-Propanol (Isopropanol)	5.00	45	567791	9.426	ng	100
19) Methylene Chloride	5.48	84	42190	1.929	ng	88
21) Trichlorotrifluoroethane	5.68	151	6106	0.286	ng	97
22) Carbon Disulfide	5.69	76	11242	0.130	ng	97
26) Vinyl Acetate	6.54	86	2376	0.589	ng	# 77
27) 2-Butanone (MEK)	6.77	72	62843	4.745	ng	97
30) Ethyl Acetate	7.38	61	50845	5.838	ng	93
31) n-Hexane	7.38	57	10798	0.322	ng	94
32) Chloroform	7.46	83	82118	2.071	ng	100
34) Tetrahydrofuran (THF)	7.86	72	2334	0.172	ng	# 1
38) 1,1,1-Trichloroethane	8.48	97	112973	3.124	ng	99
41) Benzene	8.98	78	17291	0.203	ng	85
42) Carbon Tetrachloride	9.15	117	5255	0.165	ng	98
43) Cyclohexane	9.28	84	3945	0.127	ng	88
47) Trichloroethene	10.22	130	898871	36.102	ng	99
51) n-Heptane	10.63	71	11798	0.574	ng	90
53) 4-Methyl-2-pentanone	11.38	58	25615	1.398	ng	93
58) Toluene	12.61	91	143597	1.439	ng	99
59) 2-Hexanone	12.97	43	56749	1.171	ng	92
62) n-Butyl Acetate	13.82	43	15634	0.284	ng	94
63) n-Octane	13.96	57	12897	0.657	ng	87
64) Tetrachloroethene	14.07	166	572865	18.871	ng	99
65) Chlorobenzene	14.94	112	3920	0.060	ng	91
66) Ethylbenzene	15.44	91	177023	1.487	ng	99
67) m- & p-Xylenes	15.66	91	629191	6.567	ng	98
69) Styrene	16.13	104	19704	0.299	ng	98
70) o-Xylene	16.27	91	529500	5.780	ng	99
71) n-Nonane	16.64	43	32301	0.729	ng	92
74) Cumene	17.06	105	581908	5.223	ng	100
75) alpha-Pinene	17.57	93	6012	0.117	ng	89
76) n-Propylbenzene	17.74	91	892885	6.685	ng	99
78) 4-Ethyltoluene	17.95	105	729759	6.828	ng	100
79) 1,3,5-Trimethylbenzene	18.06	105	2098305	22.200	ng	100
82) 1,2,4-Trimethylbenzene	18.61	105	2905335	31.173	ng	89
85) 1,3-Dichlorobenzene	18.78	146	3077	0.055	ng	90
86) 1,4-Dichlorobenzene	18.86	146	5480	0.094	ng	100
90) 1,2-Dichlorobenzene	19.30	146	4659	0.084	ng	91
91) d-Limonene	19.36	68	24468	0.776	ng	90
95) Naphthalene	21.55	128	16291	0.161	ng	91

Data File : I:\MS13\DATA\2023_03\24\03242329.D Vial: 13
Acq On : 24 Mar 2023 23:26 Operator: TZ
Sample : P2301250-024 (1000mL) Inst : MS13
Misc : S35-01202301

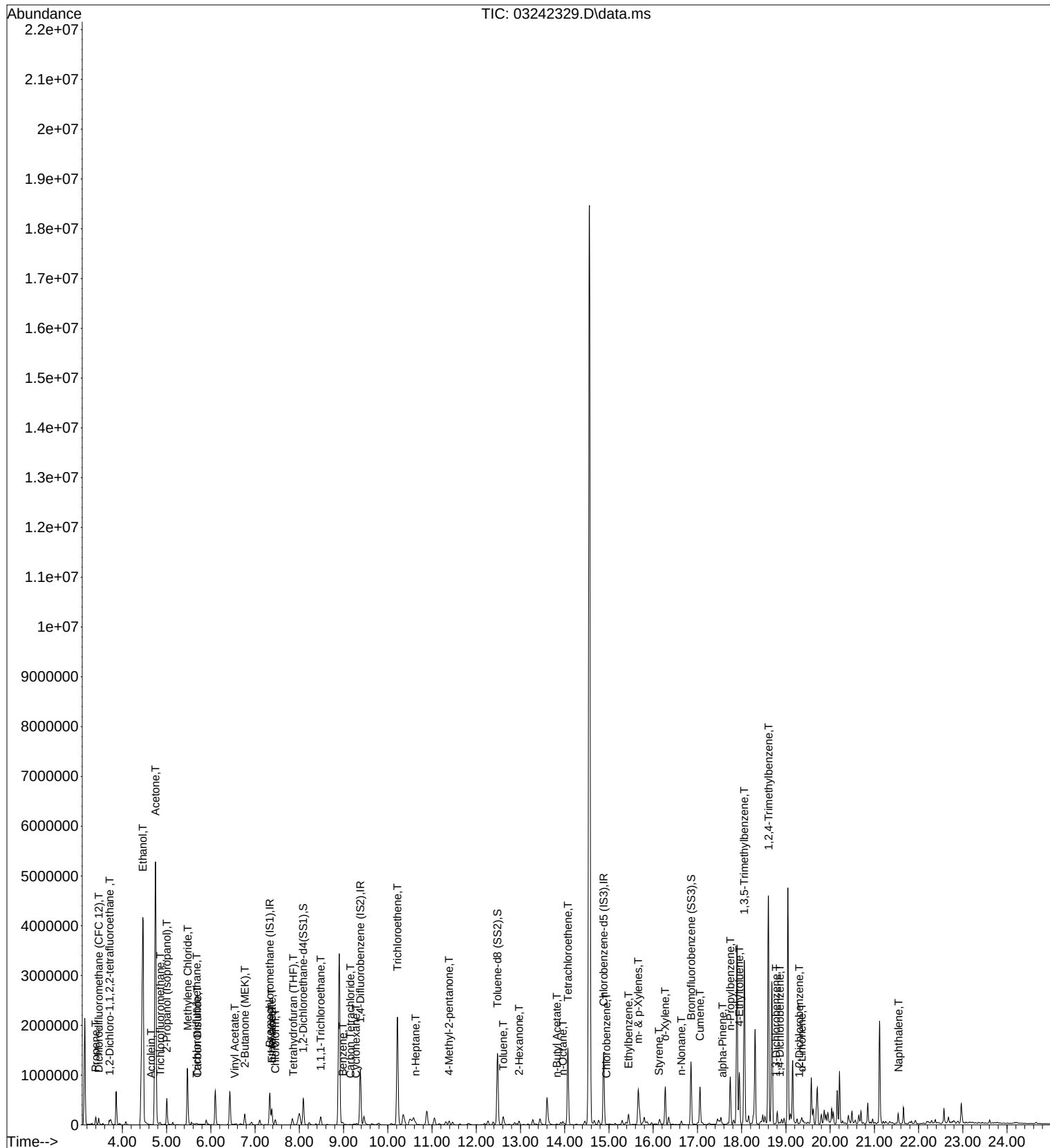
Quant Time: Mar 27 14:00:00 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M

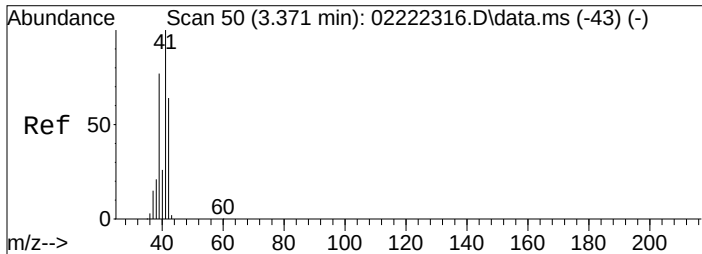
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Vial: 13
Operator: TZ
Inst : MS13

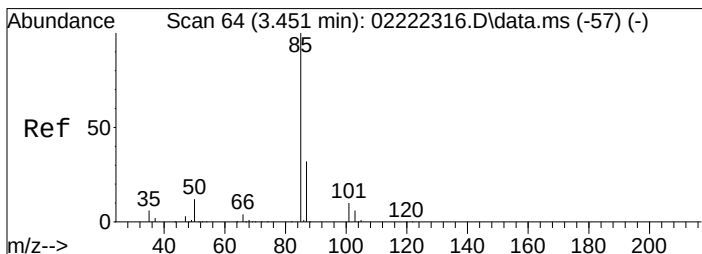
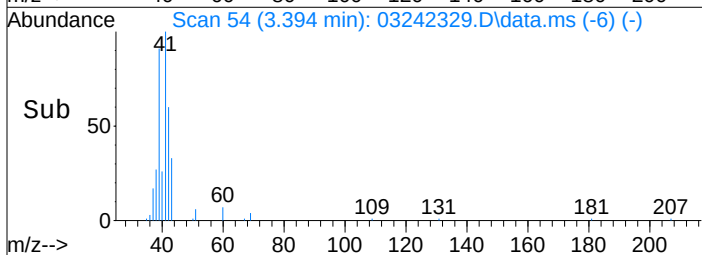
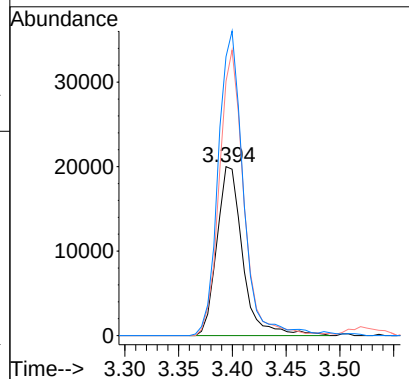
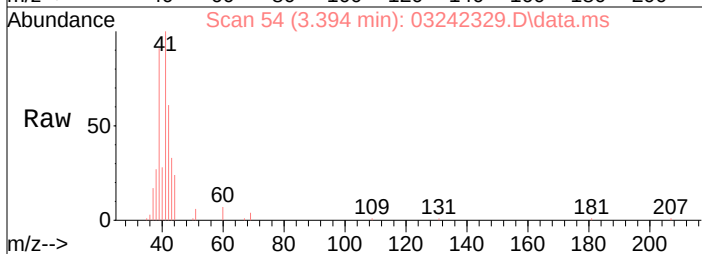
Quant Time: Mar 27 14:00:00 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:TO15.M





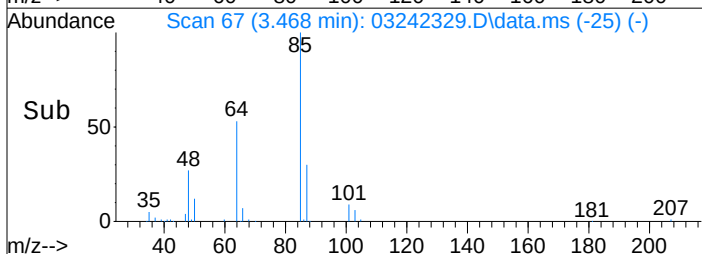
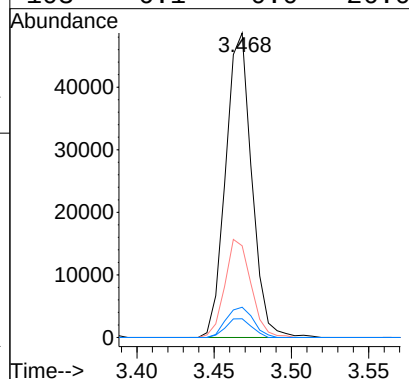
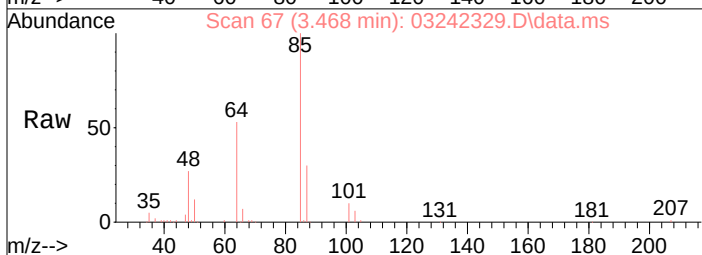
#2
 Propene
 Concen: 1.36 ng
 RT: 3.39 min Scan# 54
 Delta R.T. 0.023 min
 Lab File: 03242329.D
 Acq: 24 Mar 2023 23:26

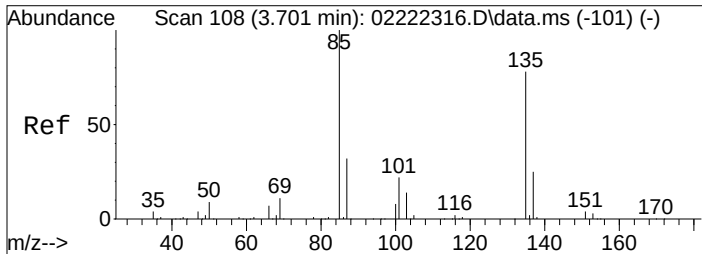
Tgt Ion: 42 Resp: 33514
 Ion Ratio Lower Upper
 42 100
 39 159.8 100.7 140.7#
 41 173.7 134.4 174.4



#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.27 ng
 RT: 3.47 min Scan# 67
 Delta R.T. -0.010 min
 Lab File: 03242329.D
 Acq: 24 Mar 2023 23:26

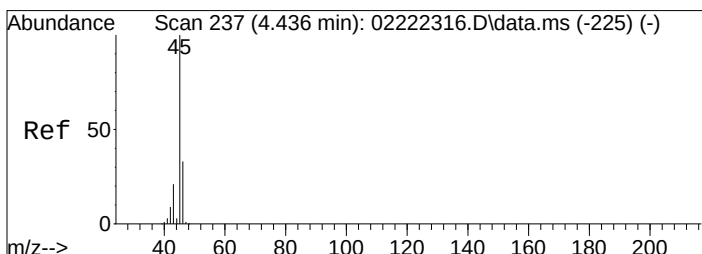
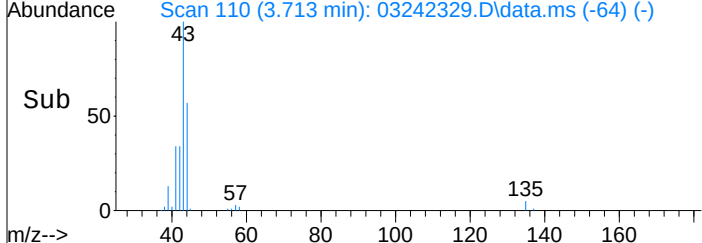
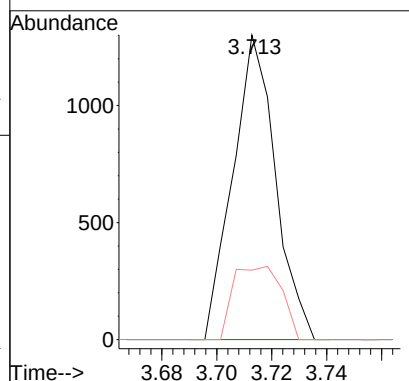
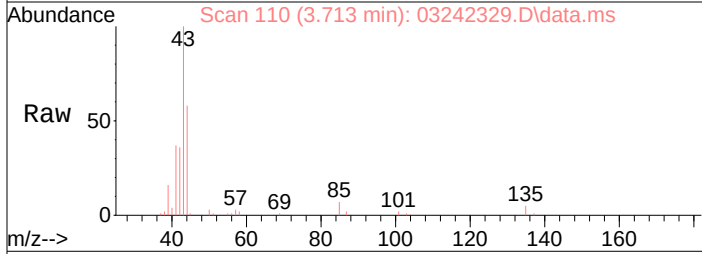
Tgt Ion: 85 Resp: 57376
 Ion Ratio Lower Upper
 85 100
 87 32.1 12.4 52.4
 101 10.3 0.0 29.4
 103 6.1 0.0 26.0





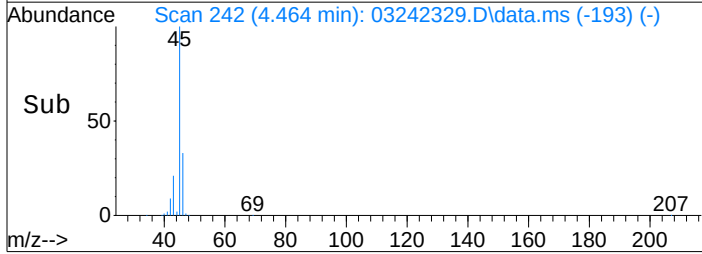
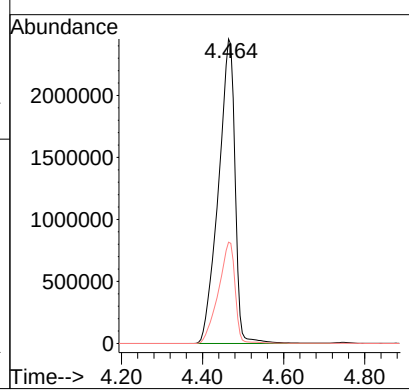
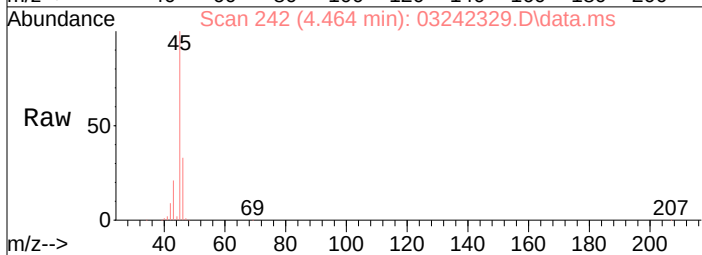
#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.06 ng
 RT: 3.71 min Scan# 110
 Delta R.T. 0.011 min
 Lab File: 03242329.D
 Acq: 24 Mar 2023 23:26

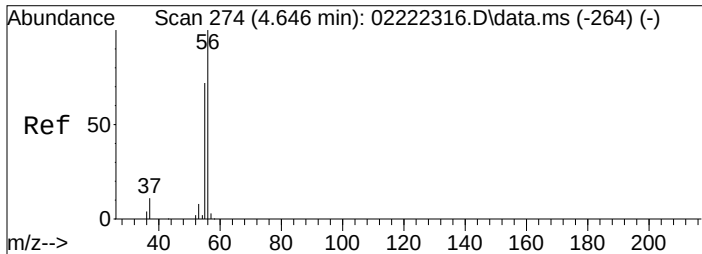
Tgt Ion:	135	Resp:	1401
Ion Ratio	Lower	Upper	
135	100		
137	27.3	12.2	52.2



#10
 Ethanol
 Concen: 399.06 ng
 RT: 4.46 min Scan# 242
 Delta R.T. 0.028 min
 Lab File: 03242329.D
 Acq: 24 Mar 2023 23:26

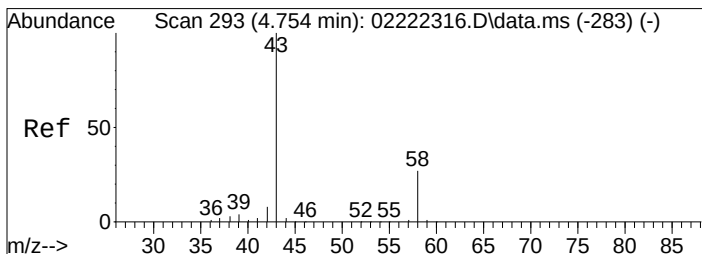
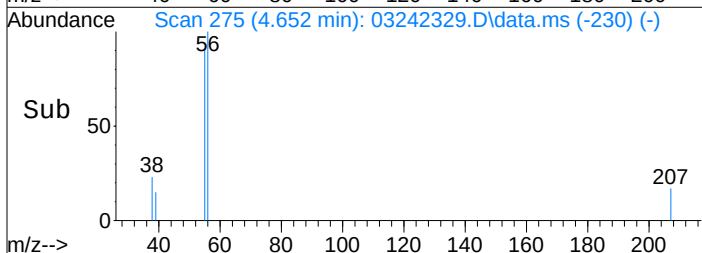
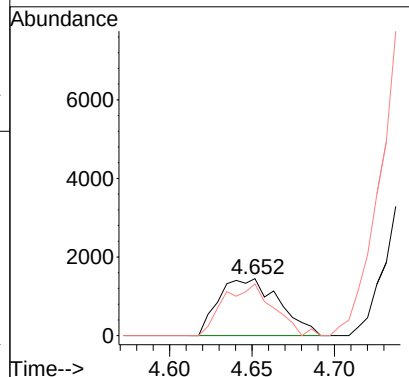
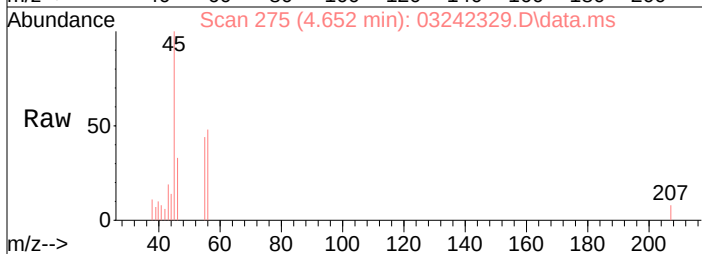
Tgt Ion:	45	Resp:	6976488
Ion Ratio	Lower	Upper	
45	100		
46	33.6	13.8	53.8





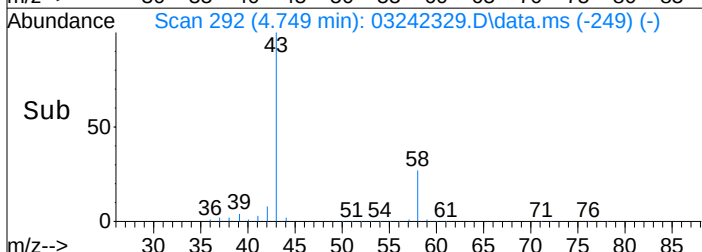
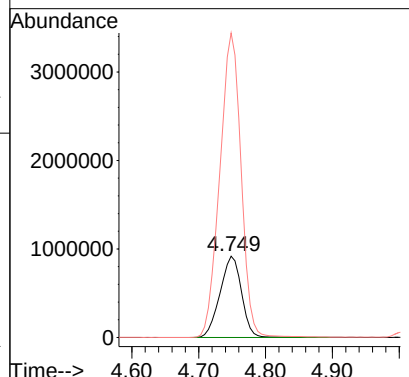
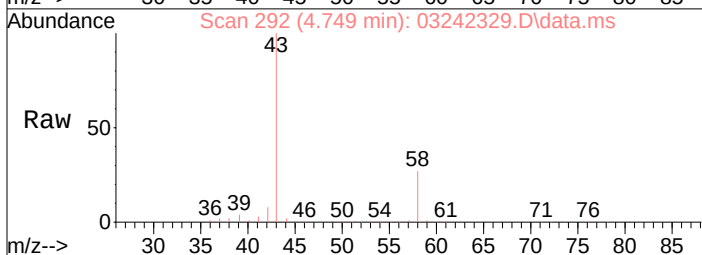
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 Acrolein
 Concen: 0.25 ng
 RT: 4.65 min Scan# 275
 Delta R.T. 0.006 min
 Lab File: 03242329.D
 Acq: 24 Mar 2023 23:26

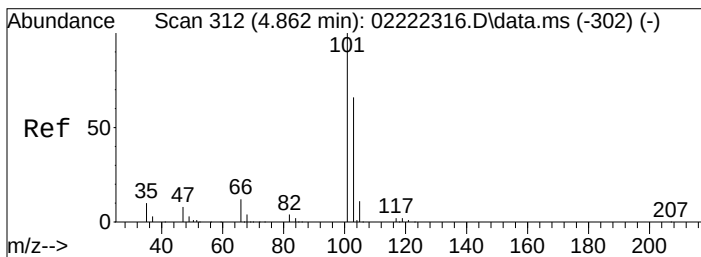
Tgt Ion: 56 Resp: 3686
 Ion Ratio Lower Upper
 56 100
 55 75.0 50.9 90.9



#13
 Acetone
 Concen: 137.77 ng
 RT: 4.75 min Scan# 292
 Delta R.T. -0.006 min
 Lab File: 03242329.D
 Acq: 24 Mar 2023 23:26

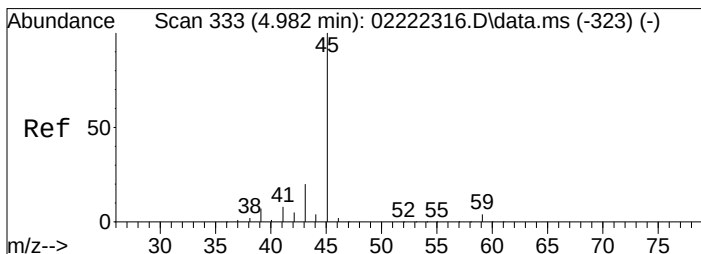
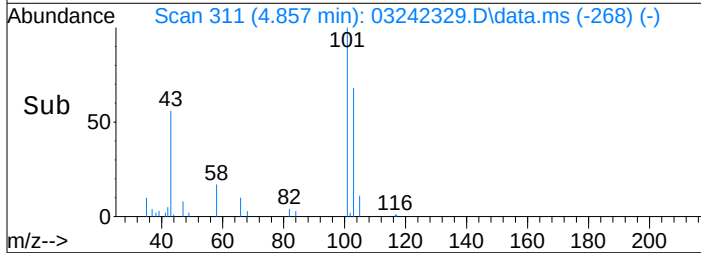
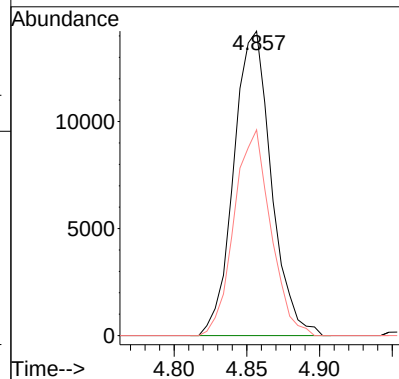
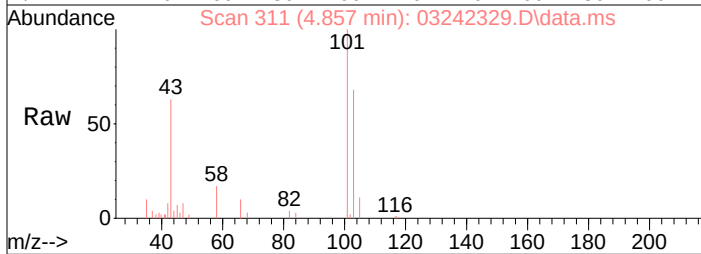
Tgt Ion: 58 Resp: 2055647
 Ion Ratio Lower Upper
 58 100
 43 370.9 337.8 397.8





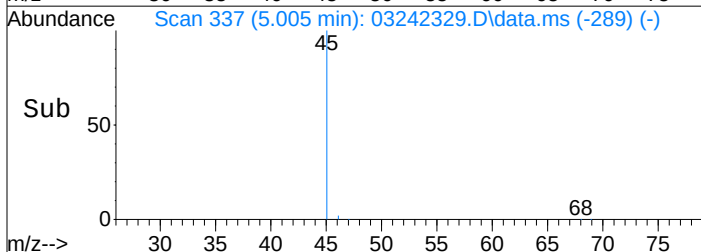
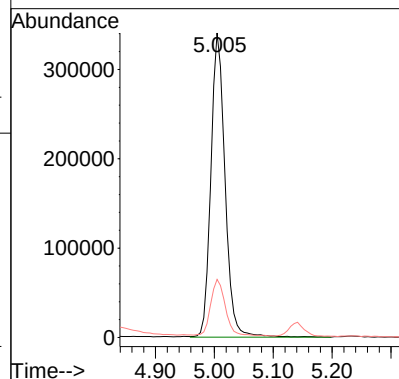
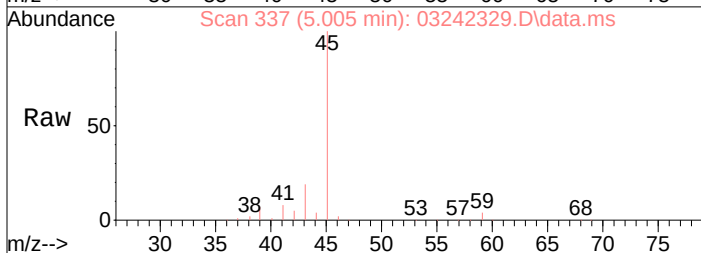
#14
 Trichlorofluoromethane
 Concen: 0.63 ng
 RT: 4.86 min Scan# 311
 Delta R.T. -0.006 min
 Lab File: 03242329.D
 Acq: 24 Mar 2023 23:26

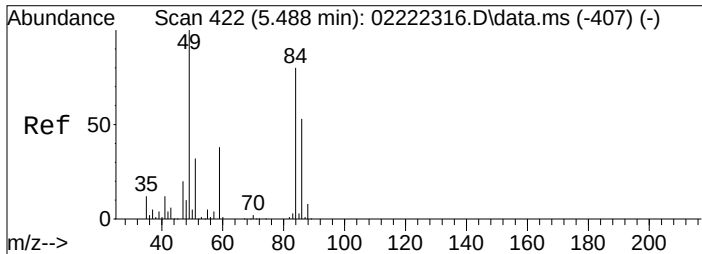
Tgt Ion: 101 Resp: 25503
 Ion Ratio Lower Upper
 101 100
 103 65.8 45.2 85.2



#15
 2-Propanol (Isopropanol)
 Concen: 9.43 ng
 RT: 5.00 min Scan# 337
 Delta R.T. 0.023 min
 Lab File: 03242329.D
 Acq: 24 Mar 2023 23:26

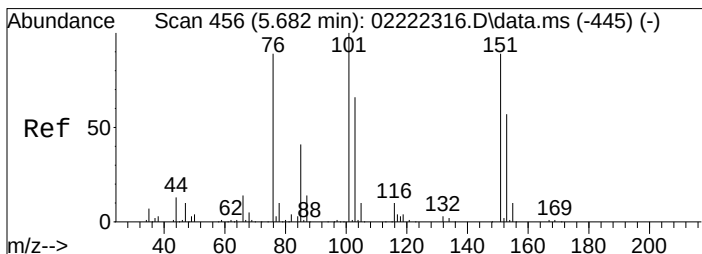
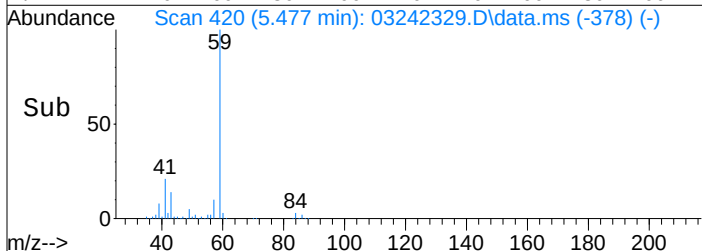
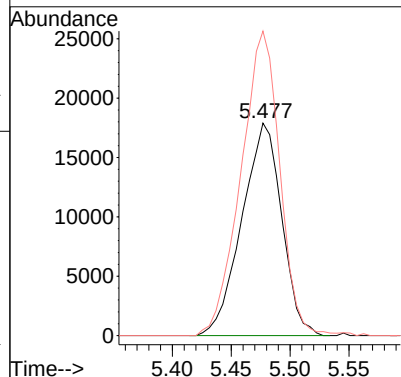
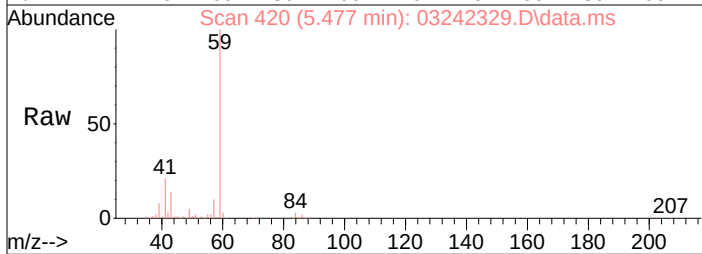
Tgt Ion: 45 Resp: 567791
 Ion Ratio Lower Upper
 45 100
 43 19.5 0.0 39.7





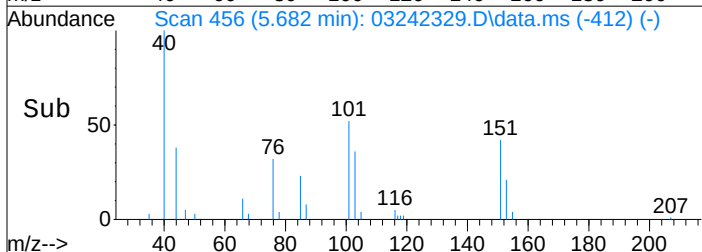
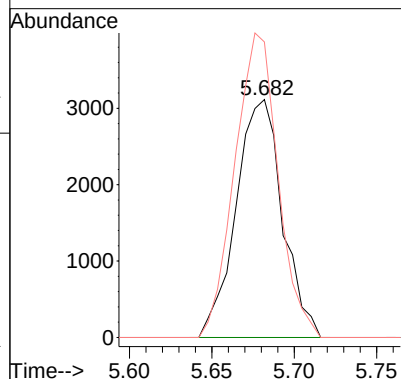
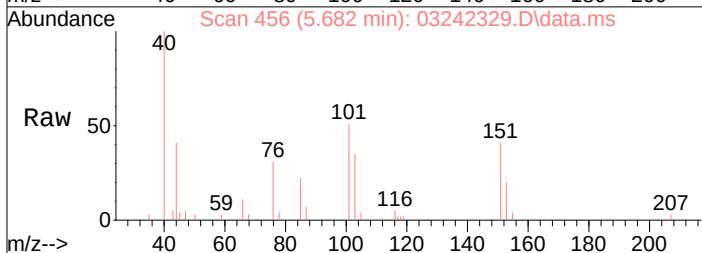
#19
Methylene Chloride
Concen: 1.93 ng
RT: 5.48 min Scan# 420
Delta R.T. -0.011 min
Lab File: 03242329.D
Acq: 24 Mar 2023 23:26

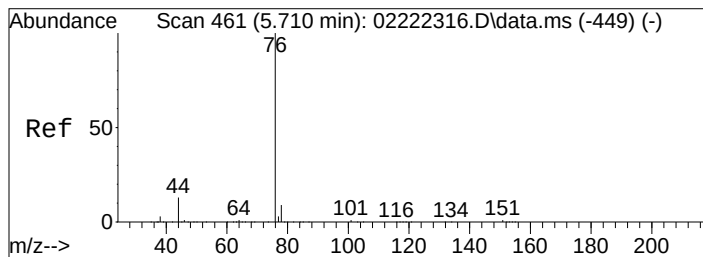
Tgt Ion	84	Resp	42190
Ion Ratio	Lower	Upper	
84	100		
49	140.2	101.3	151.3



#21
Trichlorotrifluoroethane
Concen: 0.29 ng
RT: 5.68 min Scan# 456
Delta R.T. -0.000 min
Lab File: 03242329.D
Acq: 24 Mar 2023 23:26

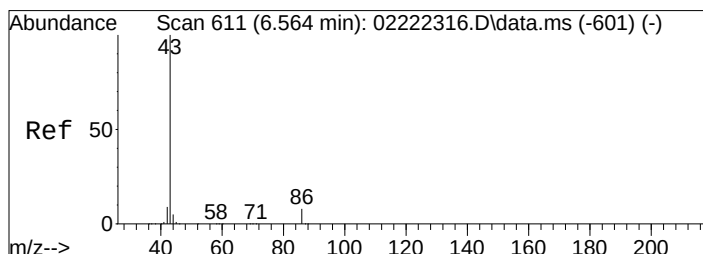
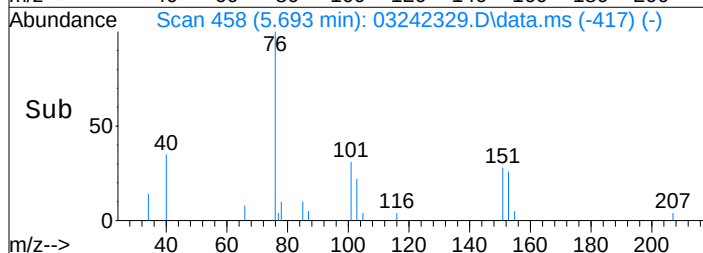
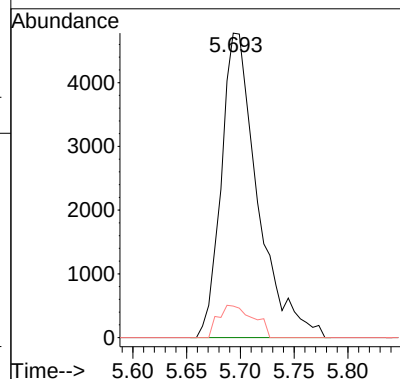
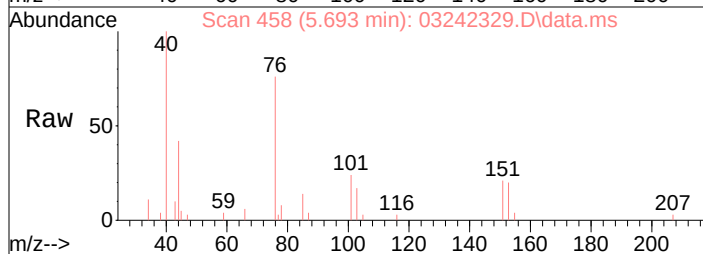
Tgt Ion	151	Resp	6106
Ion Ratio	Lower	Upper	
151	100		
101	119.2	96.3	136.3





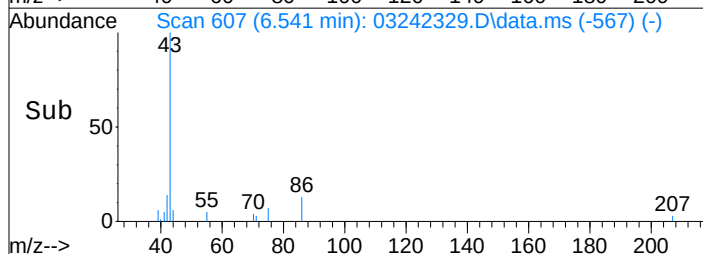
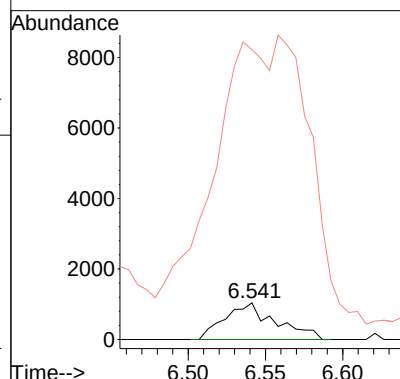
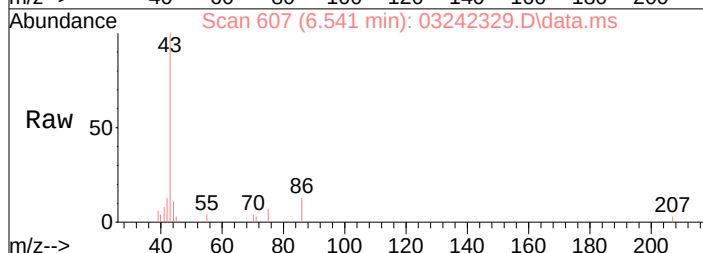
#22
Carbon Disulfide
Concen: 0.13 ng
RT: 5.69 min Scan# 458
Delta R.T. -0.017 min
Lab File: 03242329.D
Acq: 24 Mar 2023 23:26

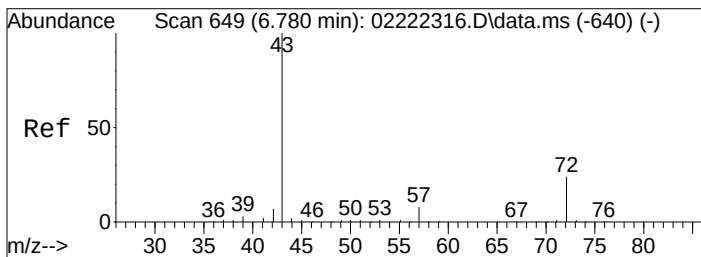
Tgt Ion: 76 Resp: 11242
Ion Ratio Lower Upper
76 100
78 10.2 0.0 29.3



#26
Vinyl Acetate
Concen: 0.59 ng
RT: 6.54 min Scan# 607
Delta R.T. -0.023 min
Lab File: 03242329.D
Acq: 24 Mar 2023 23:26

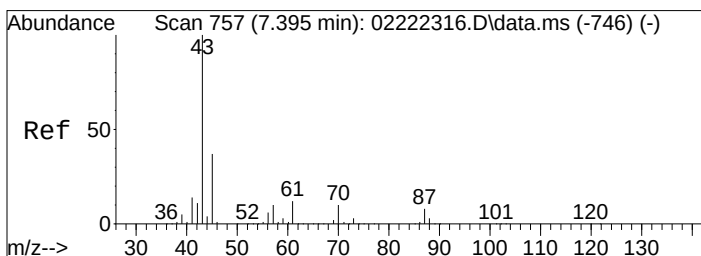
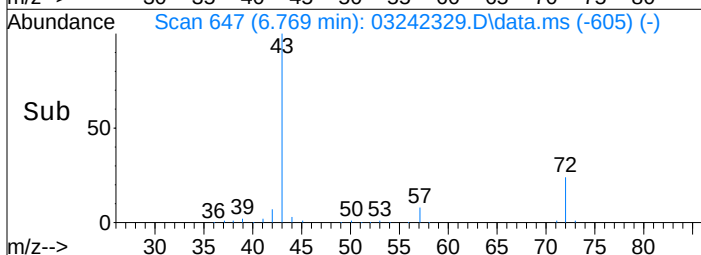
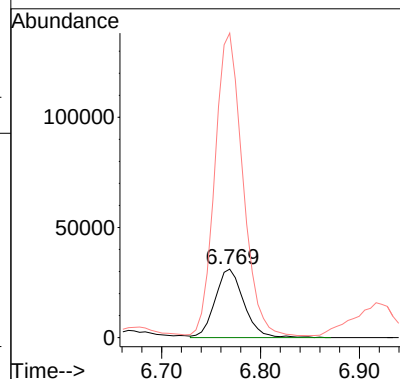
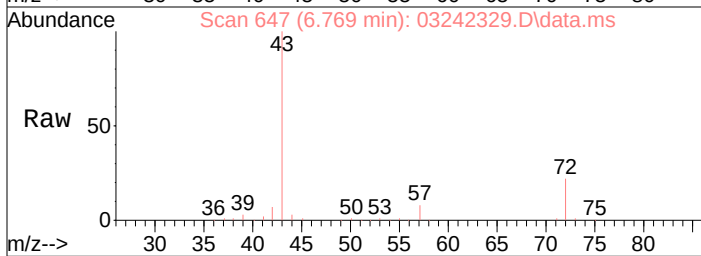
Tgt Ion: 86 Resp: 2376
Ion Ratio Lower Upper
86 100
43 1434.8 1292.1 1332.1#





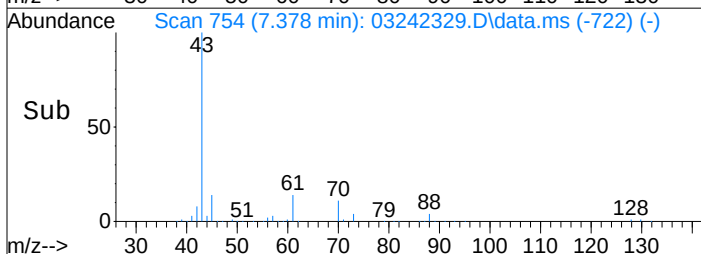
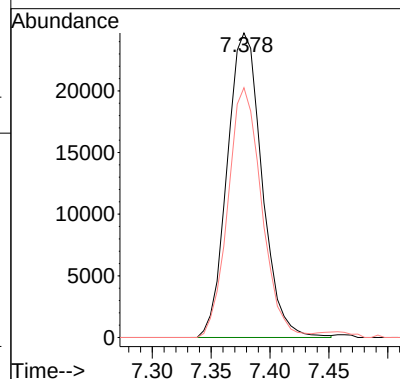
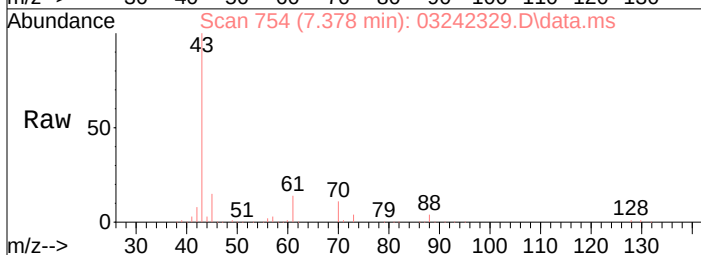
#27
2-Butanone (MEK)
Concen: 4.74 ng
RT: 6.77 min Scan# 647
Delta R.T. -0.011 min
Lab File: 03242329.D
Acq: 24 Mar 2023 23:26

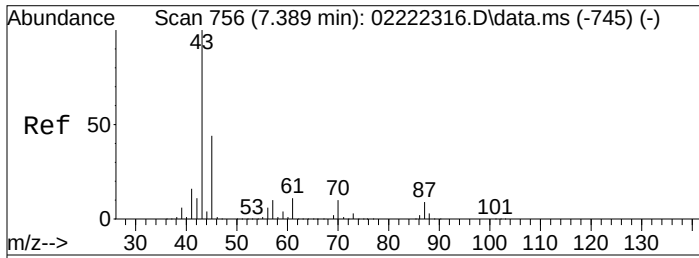
Tgt Ion: 72 Resp: 62843
Ion Ratio Lower Upper
72 100
43 427.2 400.5 440.5



#30
Ethyl Acetate
Concen: 5.84 ng
RT: 7.38 min Scan# 754
Delta R.T. -0.017 min
Lab File: 03242329.D
Acq: 24 Mar 2023 23:26

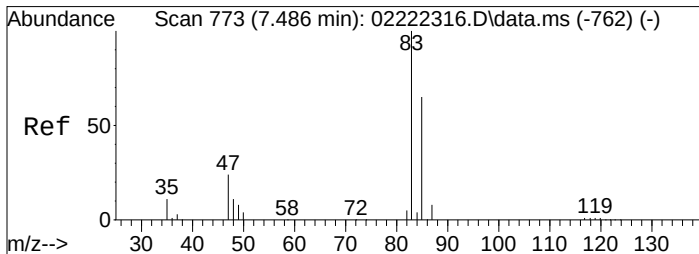
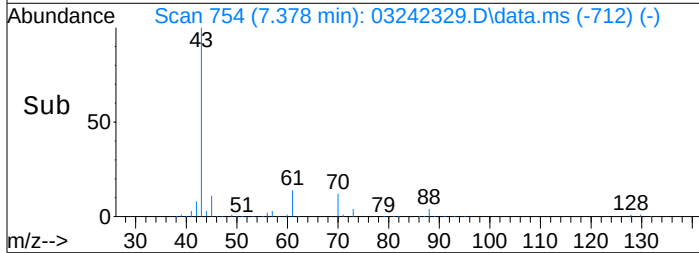
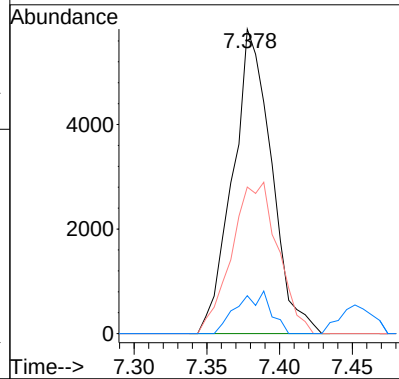
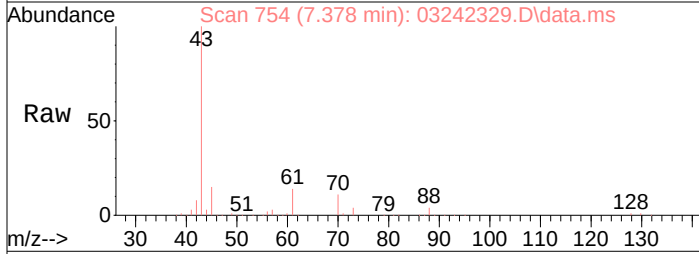
Tgt Ion: 61 Resp: 50845
Ion Ratio Lower Upper
61 100
70 79.5 65.6 105.6





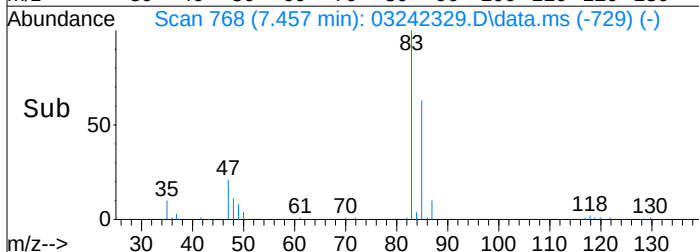
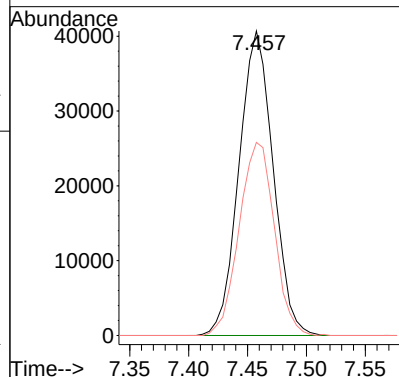
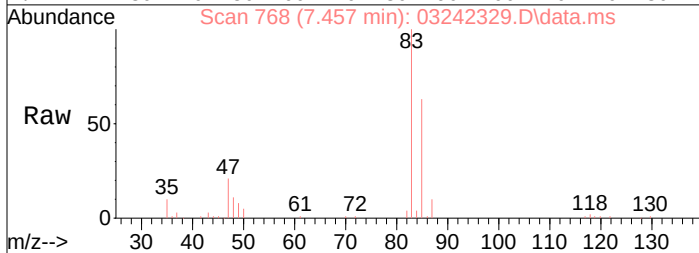
#31
n-Hexane
Concen: 0.32 ng
RT: 7.38 min Scan# 754
Delta R.T. -0.011 min
Lab File: 03242329.D
Acq: 24 Mar 2023 23:26

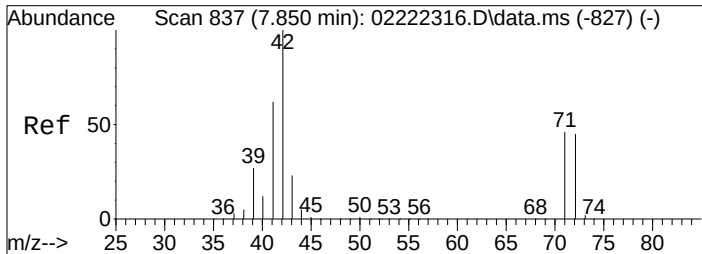
Tgt Ion: 57 Resp: 10798
Ion Ratio Lower Upper
57 100
56 59.1 44.0 66.0
86 12.0 11.5 17.3



#32
Chloroform
Concen: 2.07 ng
RT: 7.46 min Scan# 768
Delta R.T. -0.028 min
Lab File: 03242329.D
Acq: 24 Mar 2023 23:26

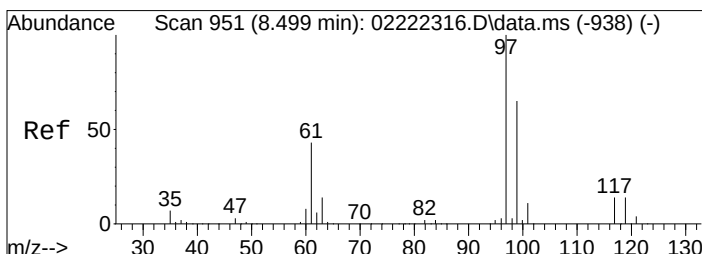
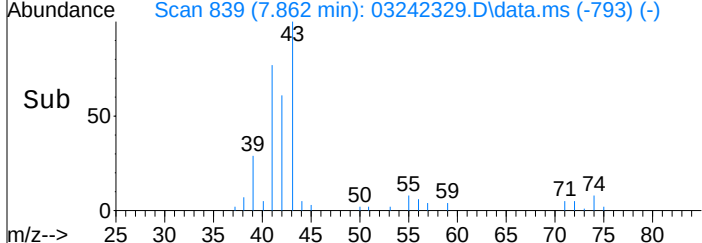
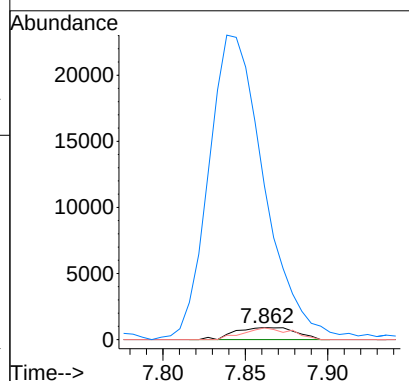
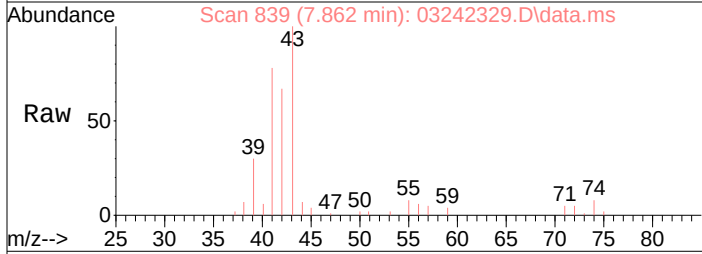
Tgt Ion: 83 Resp: 82118
Ion Ratio Lower Upper
83 100
85 65.4 45.0 85.0





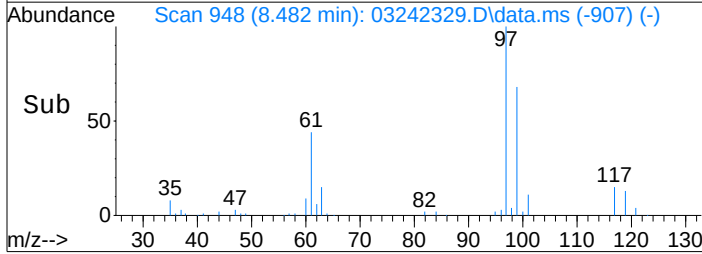
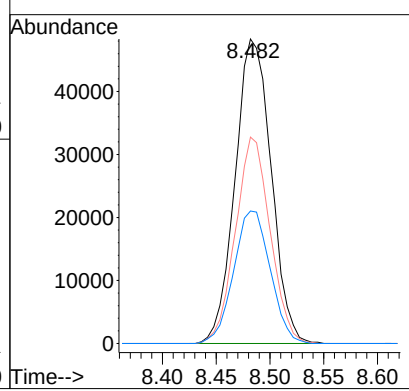
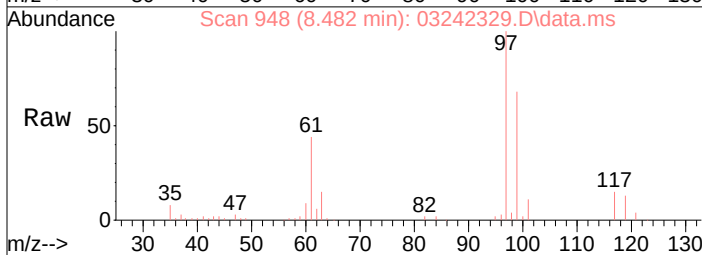
#34
 Tetrahydrofuran (THF)
 Concen: 0.17 ng
 RT: 7.86 min Scan# 839
 Delta R.T. 0.011 min
 Lab File: 03242329.D
 Acq: 24 Mar 2023 23:26

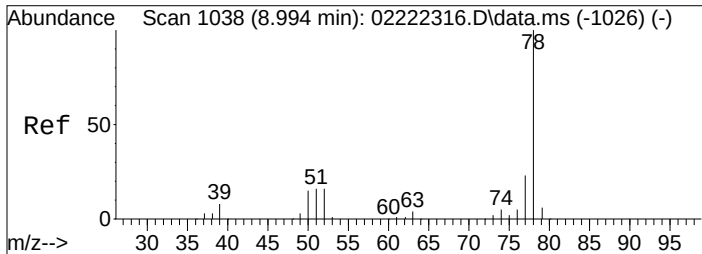
Tgt Ion:	72	Resp:	2334
Ion Ratio	Lower	Upper	
72	100		
71	76.9	79.8	119.8#
42	2348.2	199.0	239.0#



#38
 1,1,1-Trichloroethane
 Concen: 3.12 ng
 RT: 8.48 min Scan# 948
 Delta R.T. -0.017 min
 Lab File: 03242329.D
 Acq: 24 Mar 2023 23:26

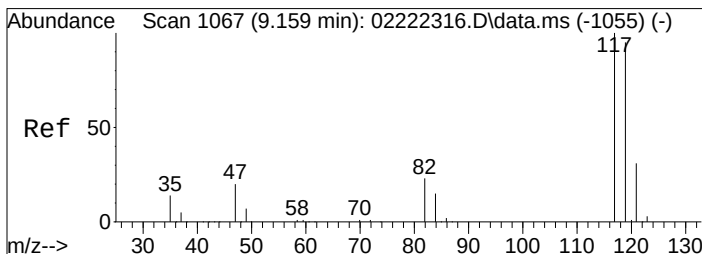
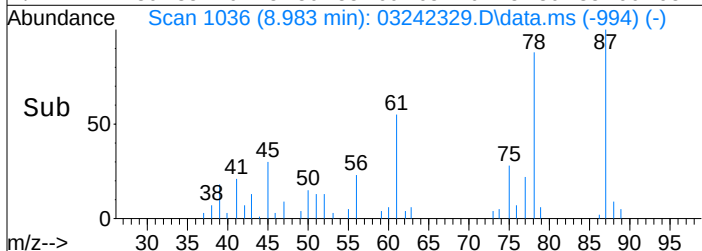
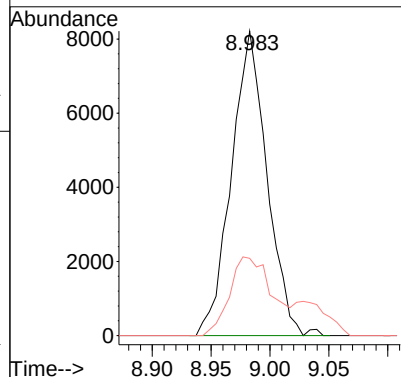
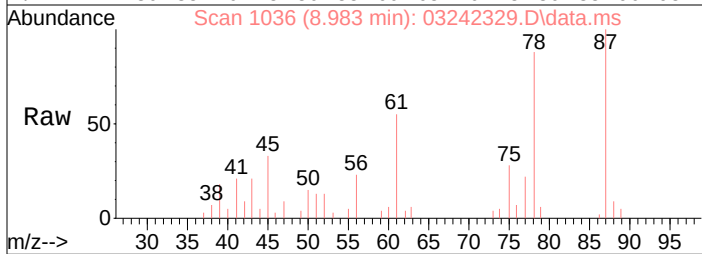
Tgt Ion:	97	Resp:	112973
Ion Ratio	Lower	Upper	
97	100		
99	65.1	44.9	84.9
61	44.1	23.5	63.5





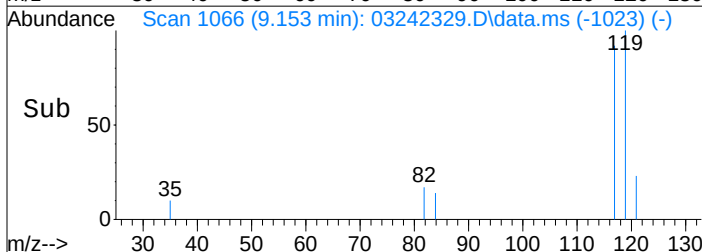
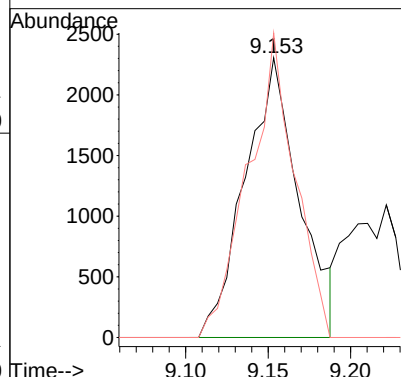
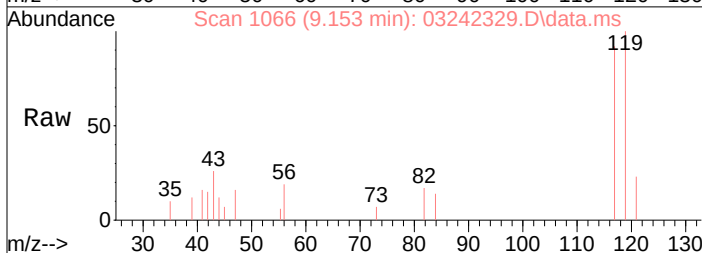
#41
Benzene
Concen: 0.20 ng
RT: 8.98 min Scan# 1036
Delta R.T. -0.011 min
Lab File: 03242329.D
Acq: 24 Mar 2023 23:26

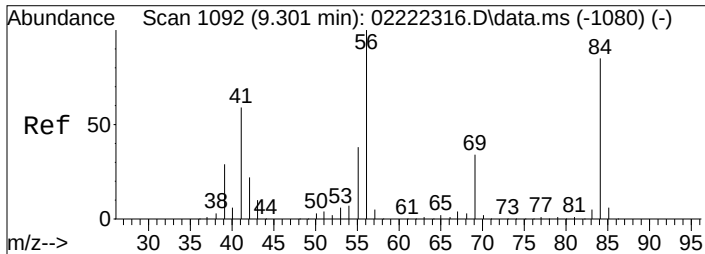
Tgt Ion:	78	Resp:	17291
Ion Ratio	Lower	Upper	
78	100		
77	31.0	3.7	43.7



#42
Carbon Tetrachloride
Concen: 0.16 ng
RT: 9.15 min Scan# 1066
Delta R.T. -0.006 min
Lab File: 03242329.D
Acq: 24 Mar 2023 23:26

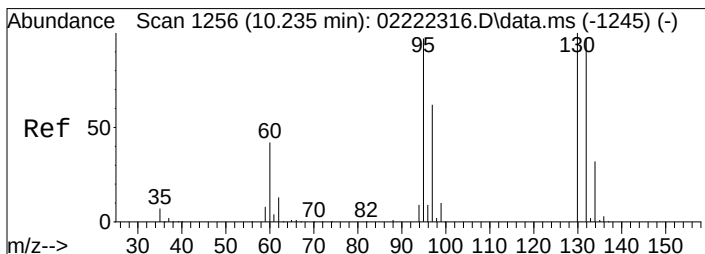
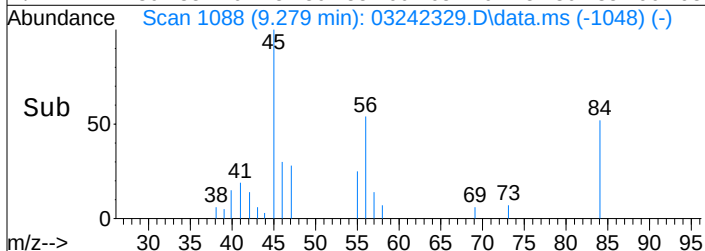
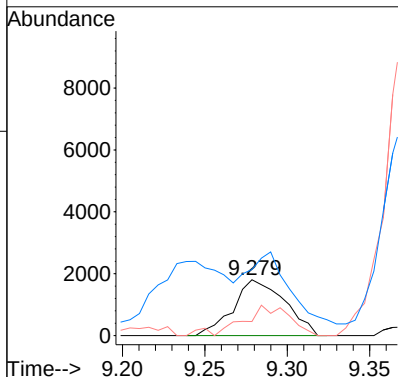
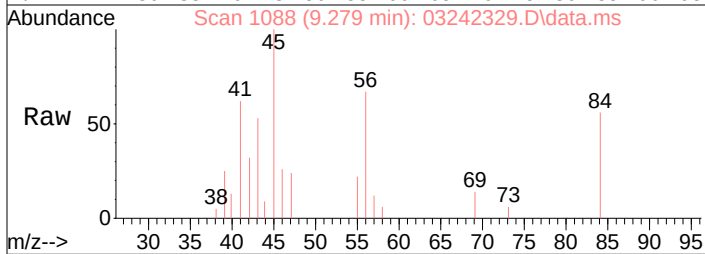
Tgt Ion:	117	Resp:	5255
Ion Ratio	Lower	Upper	
117	100		
119	94.1	75.7	115.7





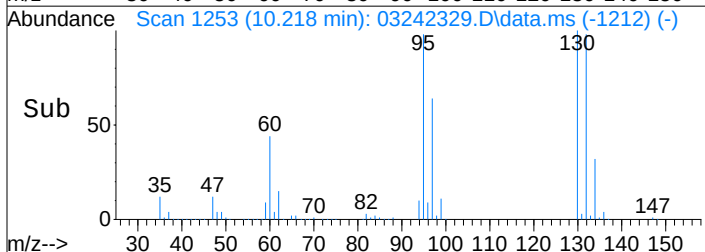
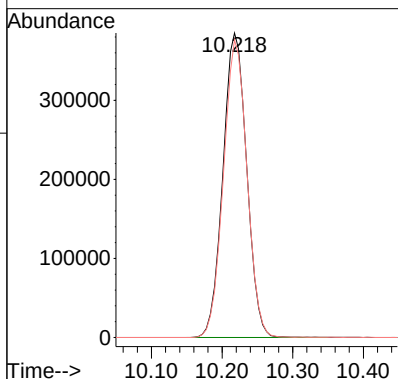
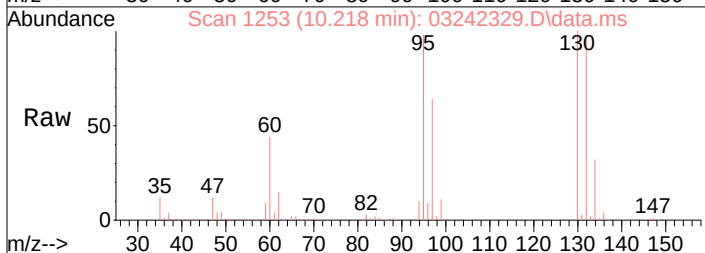
#43
Cyclohexane
Concen: 0.13 ng
RT: 9.28 min Scan# 1088
Delta R.T. -0.023 min
Lab File: 03242329.D
Acq: 24 Mar 2023 23:26

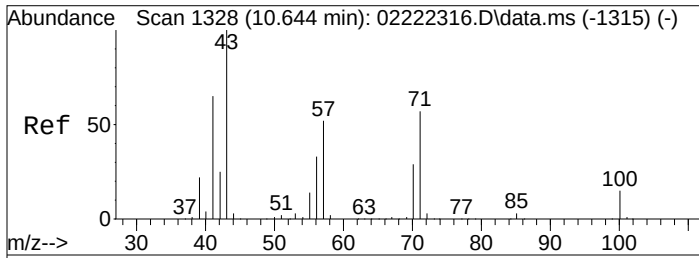
Tgt Ion: 84 Resp: 3945
Ion Ratio Lower Upper
84 100
69 46.0 20.0 60.0
56 103.9 98.5 138.5



#47
Trichloroethene
Concen: 36.10 ng
RT: 10.22 min Scan# 1253
Delta R.T. -0.017 min
Lab File: 03242329.D
Acq: 24 Mar 2023 23:26

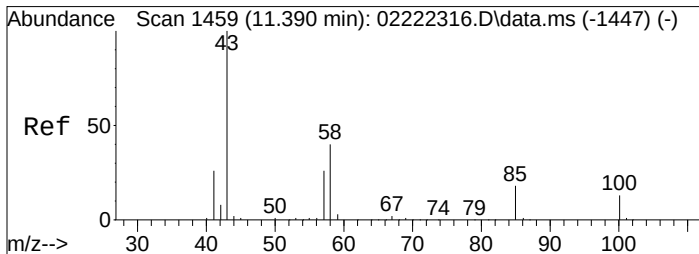
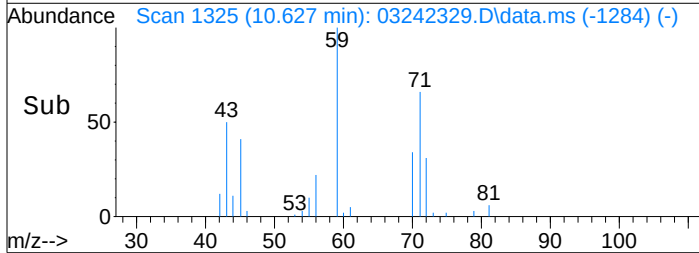
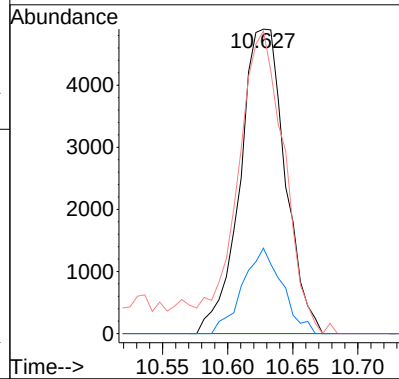
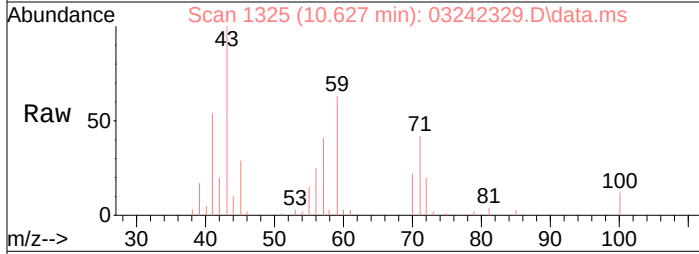
Tgt Ion: 130 Resp: 898871
Ion Ratio Lower Upper
130 100
132 96.8 76.3 116.3





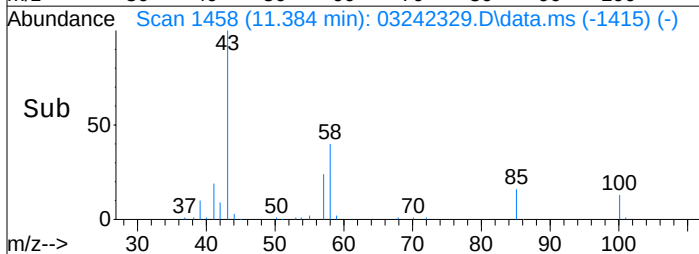
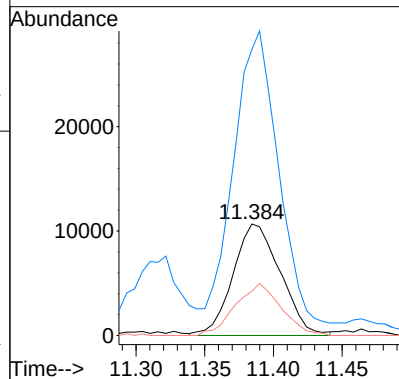
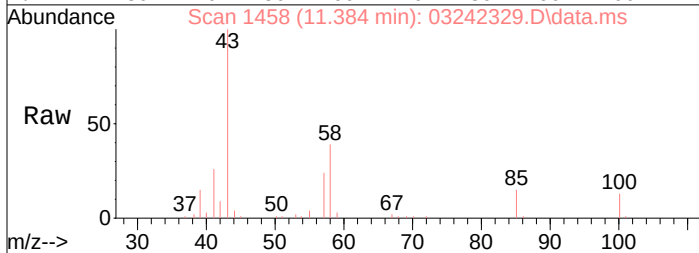
#51
n-Heptane
Concen: 0.57 ng
RT: 10.63 min Scan# 1325
Delta R.T. -0.017 min
Lab File: 03242329.D
Acq: 24 Mar 2023 23:26

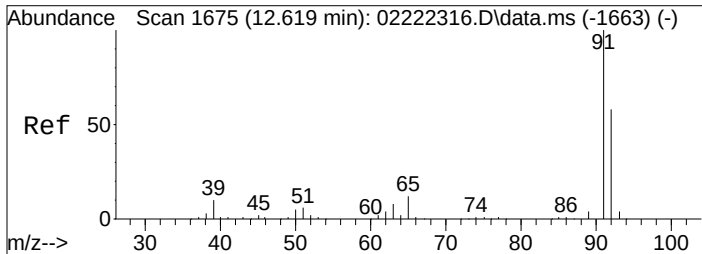
Tgt Ion: 71 Resp: 11798
Ion Ratio Lower Upper
71 100
57 103.1 71.7 111.7
100 24.7 5.8 45.8



#53
4-Methyl-2-pentanone
Concen: 1.40 ng
RT: 11.38 min Scan# 1458
Delta R.T. -0.006 min
Lab File: 03242329.D
Acq: 24 Mar 2023 23:26

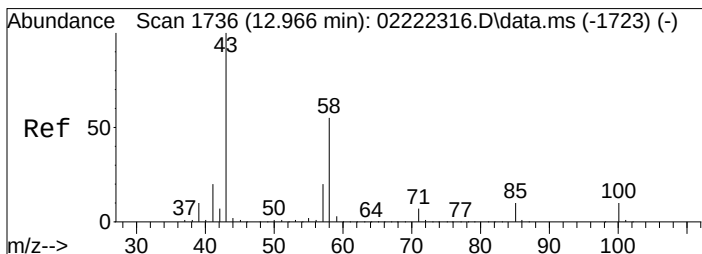
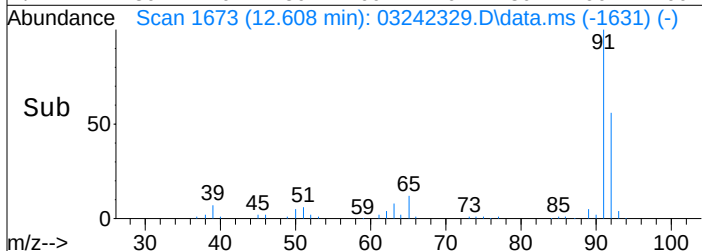
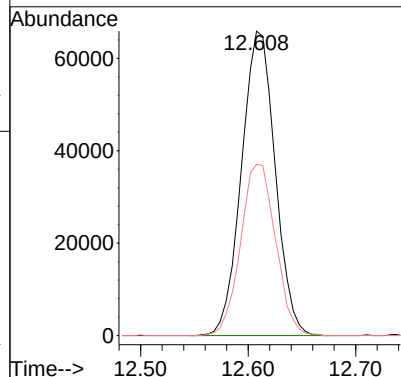
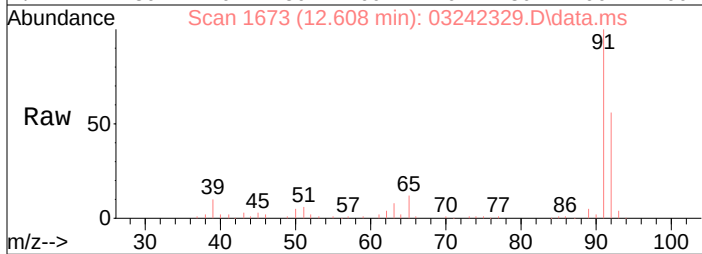
Tgt Ion: 58 Resp: 25615
Ion Ratio Lower Upper
58 100
85 44.9 38.6 58.0
43 266.5 202.2 303.2





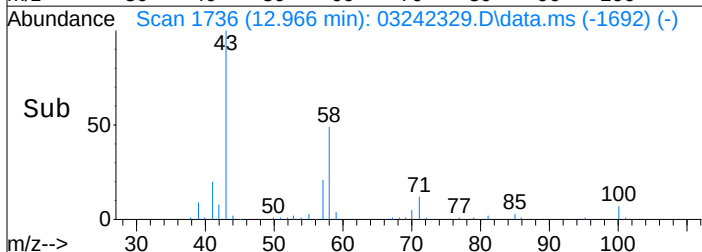
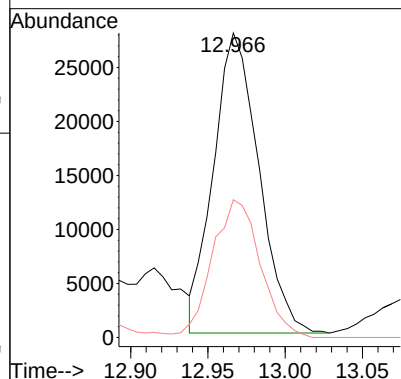
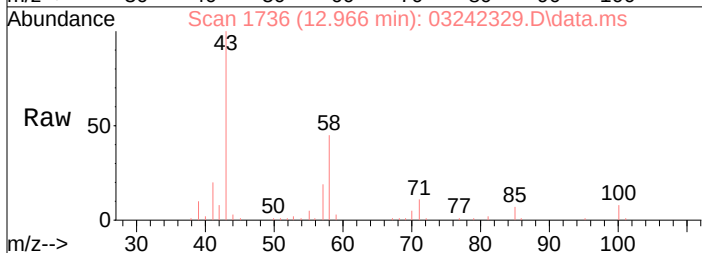
#58
Toluene
Concen: 1.44 ng
RT: 12.61 min Scan# 1673
Delta R.T. -0.011 min
Lab File: 03242329.D
Acq: 24 Mar 2023 23:26

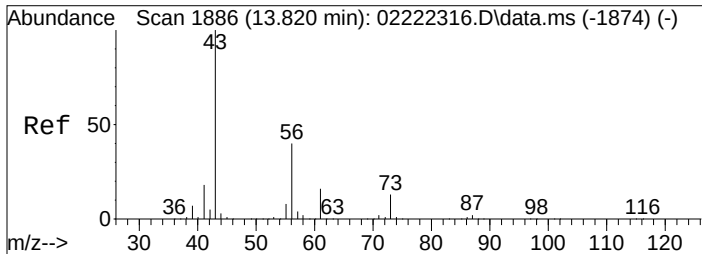
Tgt Ion: 91 Resp: 143597
Ion Ratio Lower Upper
91 100
92 58.5 38.0 78.0



#59
2-Hexanone
Concen: 1.17 ng
RT: 12.97 min Scan# 1736
Delta R.T. -0.000 min
Lab File: 03242329.D
Acq: 24 Mar 2023 23:26

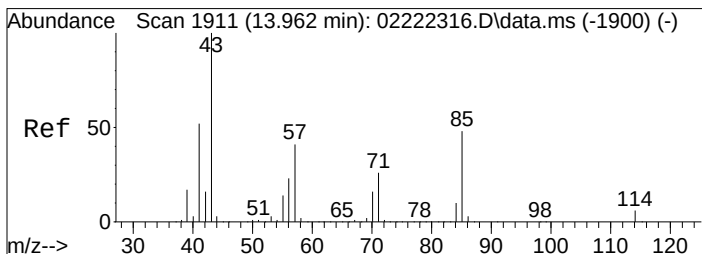
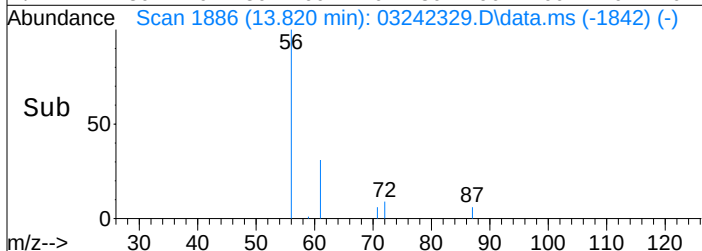
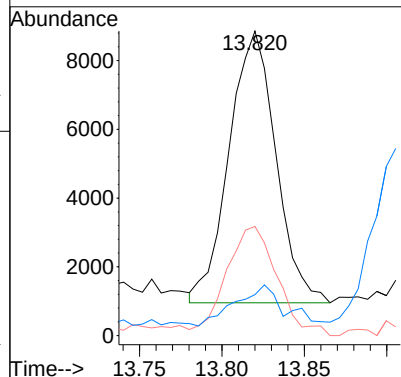
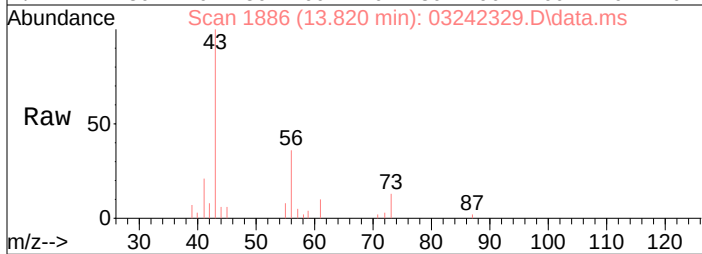
Tgt Ion: 43 Resp: 56749
Ion Ratio Lower Upper
43 100
58 48.5 34.5 74.5





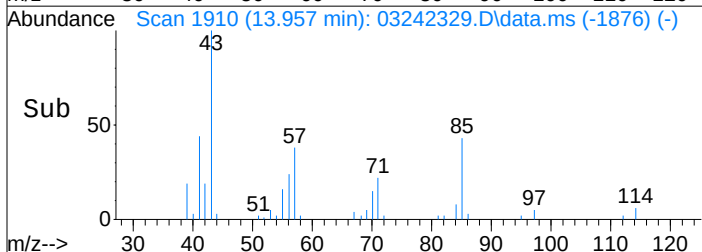
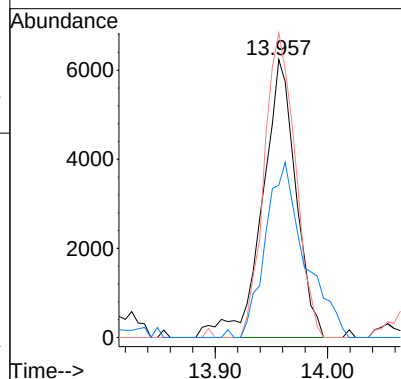
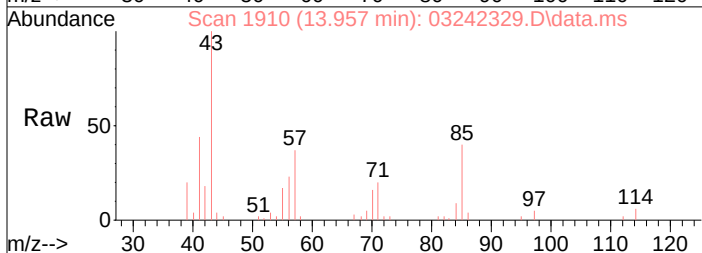
#62
 n-Butyl Acetate
 Concen: 0.28 ng
 RT: 13.82 min Scan# 1886
 Delta R.T. -0.000 min
 Lab File: 03242329.D
 Acq: 24 Mar 2023 23:26

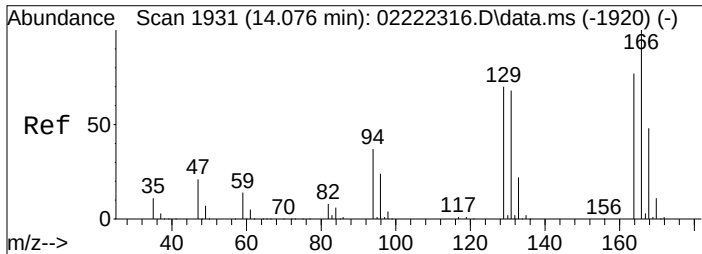
Tgt Ion:	43	Resp:	15634
Ion Ratio		Lower	Upper
43	100		
56	43.5	20.0	60.0
73	16.6	0.0	33.2



#63
 n-Octane
 Concen: 0.66 ng
 RT: 13.96 min Scan# 1910
 Delta R.T. -0.006 min
 Lab File: 03242329.D
 Acq: 24 Mar 2023 23:26

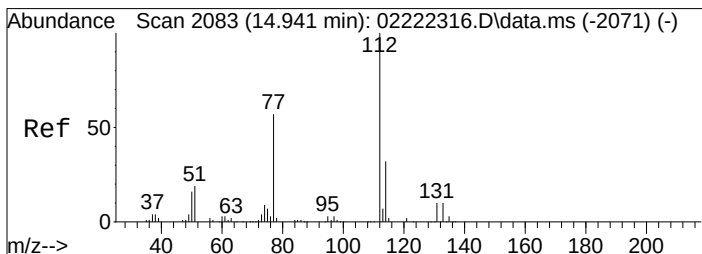
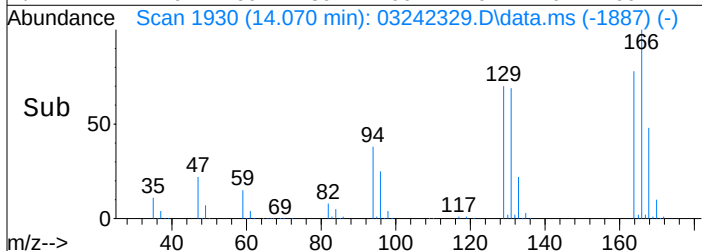
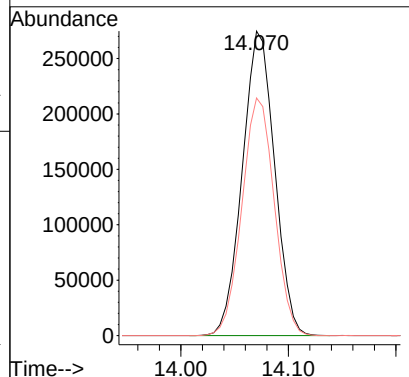
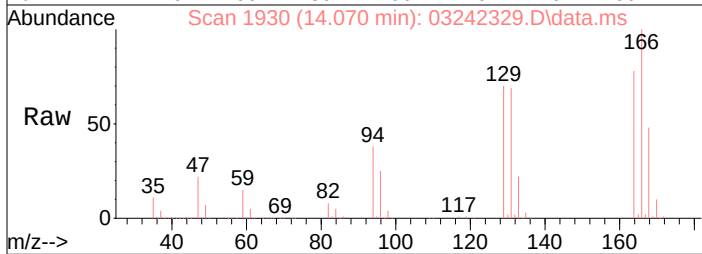
Tgt Ion:	57	Resp:	12897
Ion Ratio		Lower	Upper
57	100		
85	102.3	94.1	141.1
71	73.7	52.6	79.0





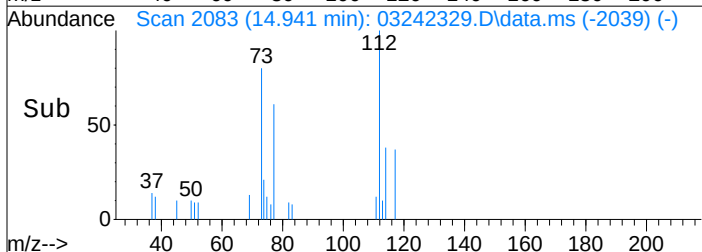
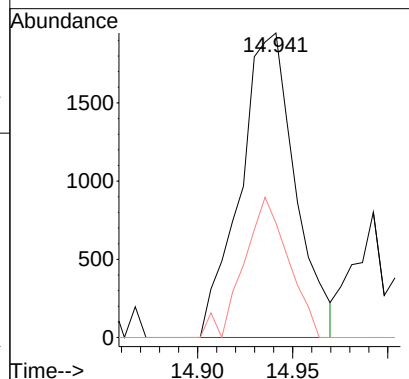
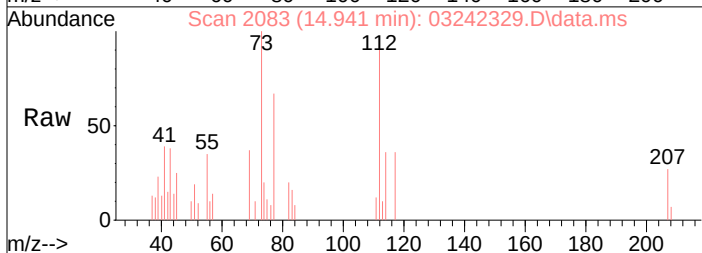
#64
 Tetrachloroethene
 Concen: 18.87 ng
 RT: 14.07 min Scan# 1930
 Delta R.T. -0.006 min
 Lab File: 03242329.D
 Acq: 24 Mar 2023 23:26

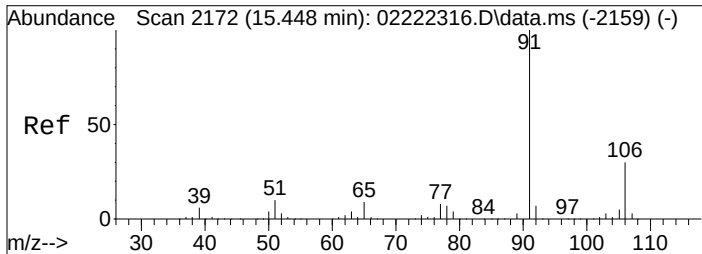
Tgt Ion:	166	Resp:	572865
Ion Ratio	Lower	Upper	
166	100		
164	78.3	57.3	97.3



#65
 Chlorobenzene
 Concen: 0.06 ng
 RT: 14.94 min Scan# 2083
 Delta R.T. -0.000 min
 Lab File: 03242329.D
 Acq: 24 Mar 2023 23:26

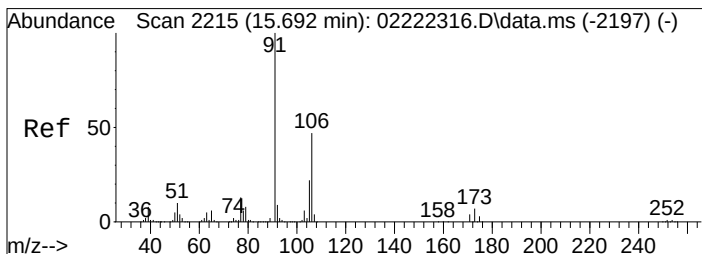
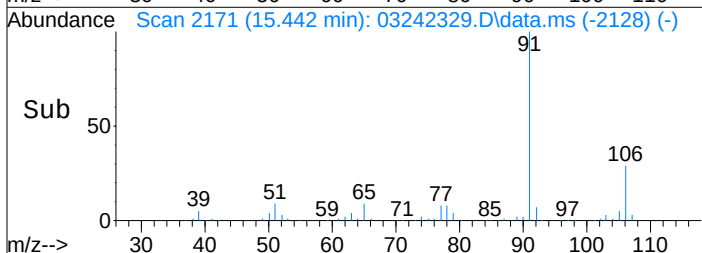
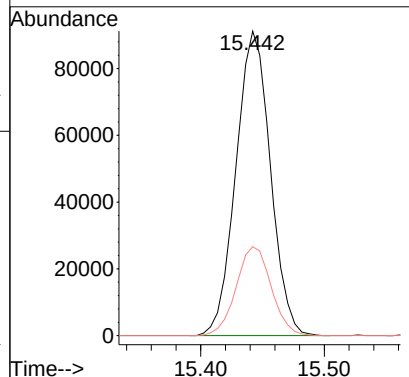
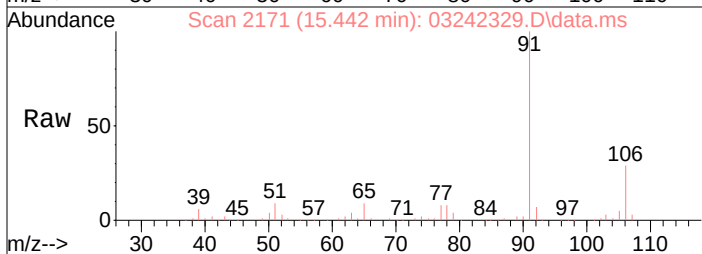
Tgt Ion:	112	Resp:	3920
Ion Ratio	Lower	Upper	
112	100		
114	37.4	12.1	52.1





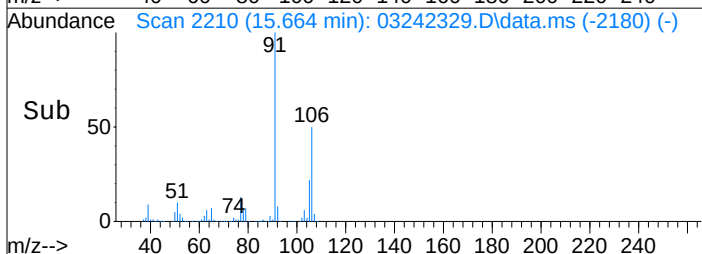
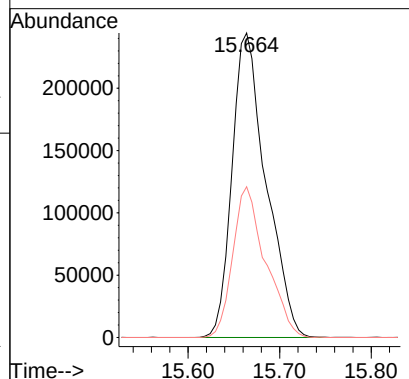
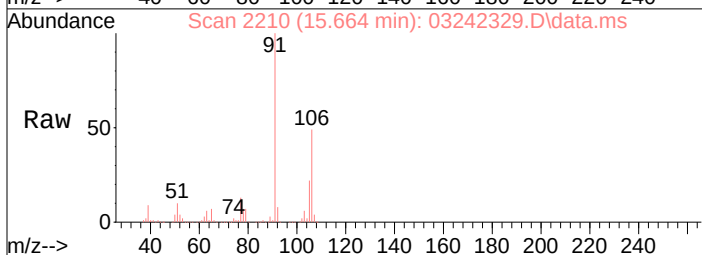
#66
Ethylbenzene
Concen: 1.49 ng
RT: 15.44 min Scan# 2171
Delta R.T. -0.006 min
Lab File: 03242329.D
Acq: 24 Mar 2023 23:26

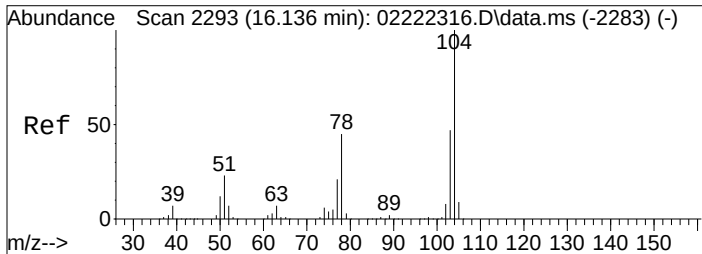
Tgt Ion	91	106	Resp	177023
Ion Ratio	100	29.7	Lower	Upper
		10.4		50.4



#67
m- & p-Xylenes
Concen: 6.57 ng
RT: 15.66 min Scan# 2210
Delta R.T. -0.028 min
Lab File: 03242329.D
Acq: 24 Mar 2023 23:26

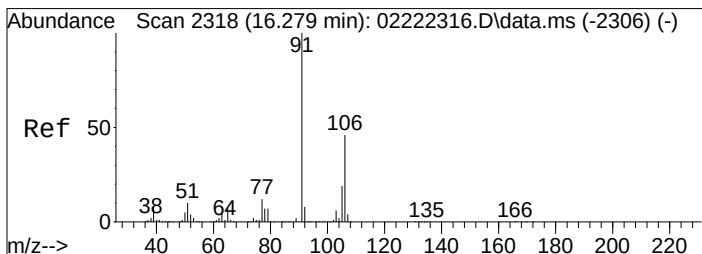
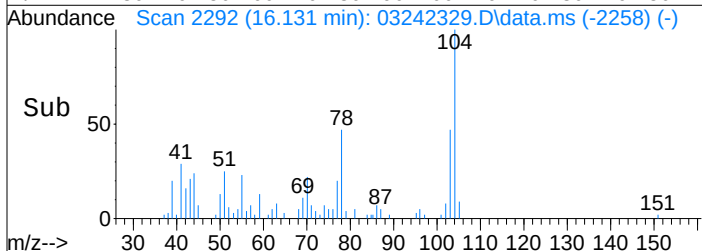
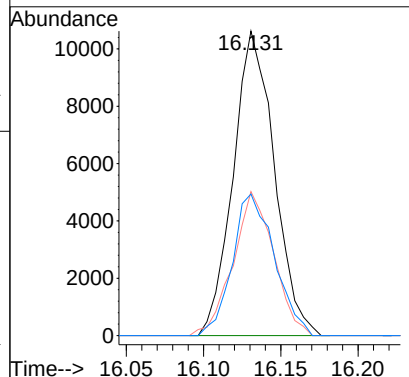
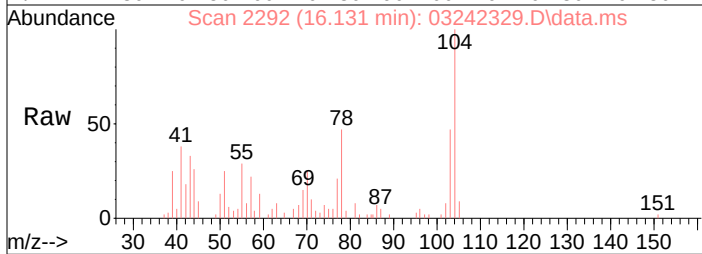
Tgt Ion	91	106	Resp	629191
Ion Ratio <td>100</td> <td>47.8</td> <td>Lower</td> <td>Upper</td>	100	47.8	Lower	Upper
		26.2		66.2





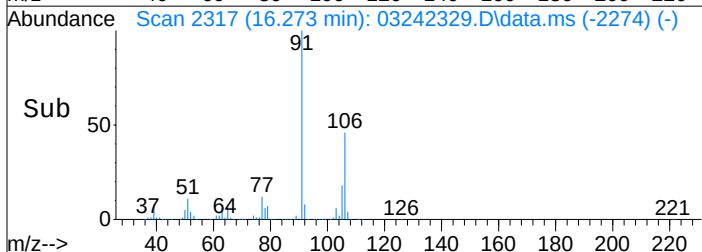
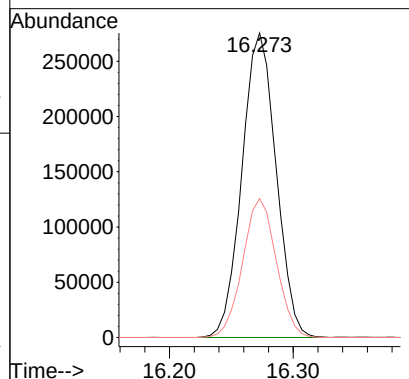
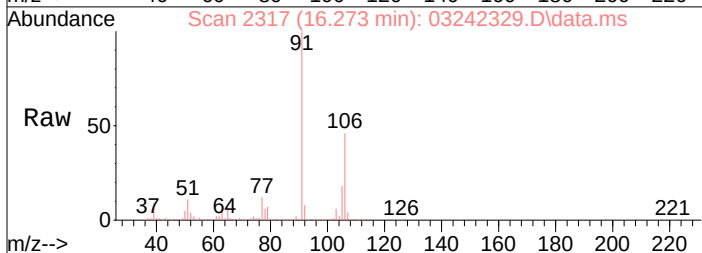
#69
Styrene
Concen: 0.30 ng
RT: 16.13 min Scan# 2292
Delta R.T. -0.006 min
Lab File: 03242329.D
Acq: 24 Mar 2023 23:26

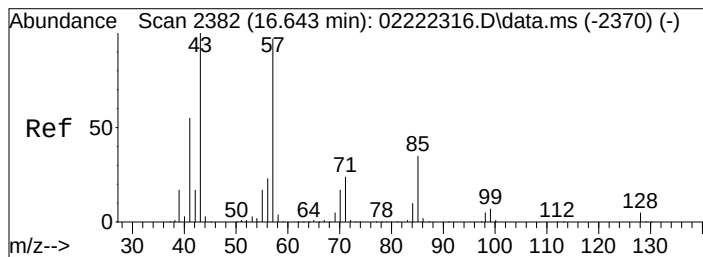
Tgt Ion:	104	Resp:	19704
Ion Ratio		Lower	Upper
104	100		
78	46.7	24.7	64.7
103	47.5	27.8	67.8



#70
o-Xylene
Concen: 5.78 ng
RT: 16.27 min Scan# 2317
Delta R.T. -0.006 min
Lab File: 03242329.D
Acq: 24 Mar 2023 23:26

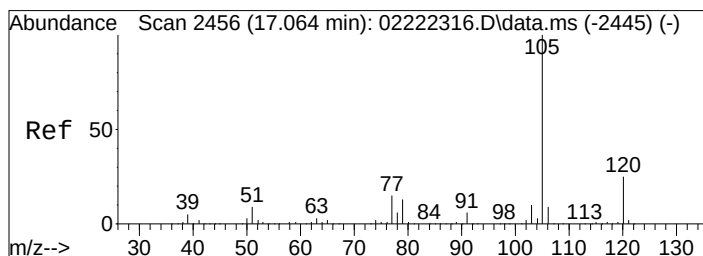
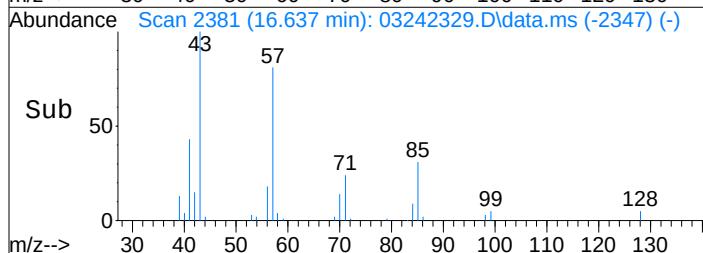
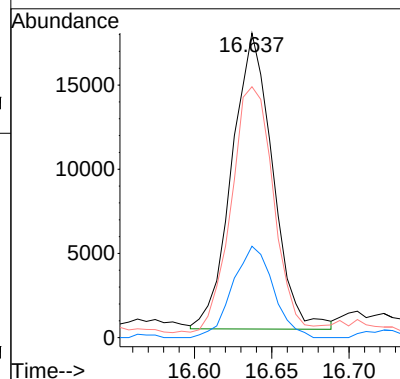
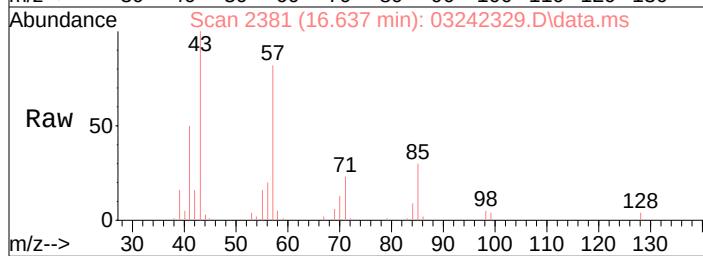
Tgt Ion:	91	Resp:	529500
Ion Ratio		Lower	Upper
91	100		
106	45.0	25.4	65.4





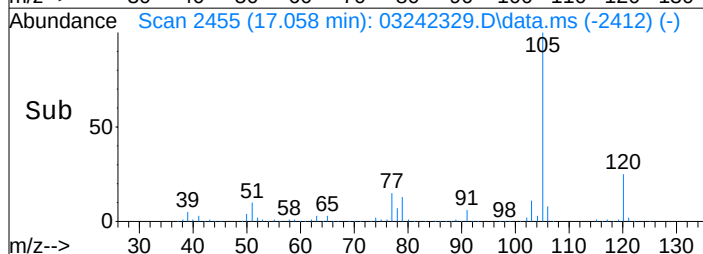
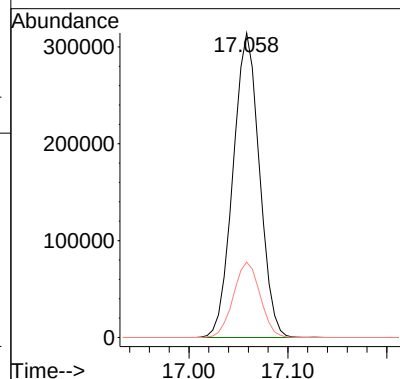
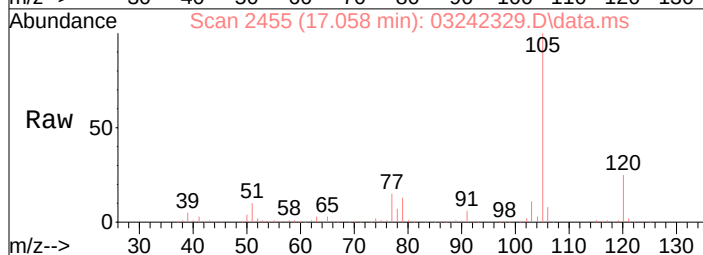
#71
n-Nonane
Concen: 0.73 ng
RT: 16.64 min Scan# 2381
Delta R.T. -0.006 min
Lab File: 03242329.D
Acq: 24 Mar 2023 23:26

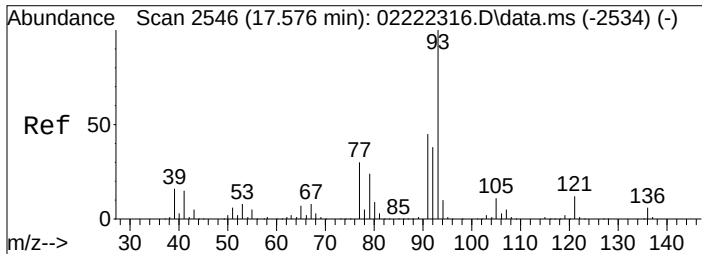
Tgt Ion: 43 Resp: 32301
Ion Ratio Lower Upper
43 100
57 86.1 74.2 114.2
85 30.7 14.2 54.2



#74
Cumene
Concen: 5.22 ng
RT: 17.06 min Scan# 2455
Delta R.T. -0.006 min
Lab File: 03242329.D
Acq: 24 Mar 2023 23:26

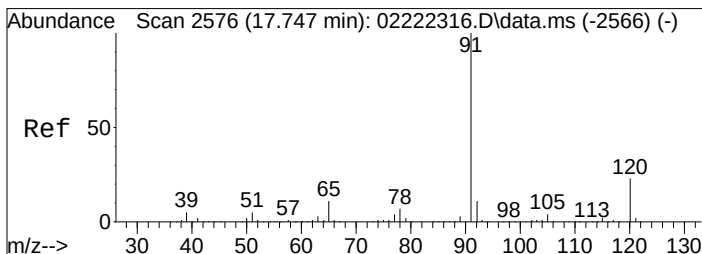
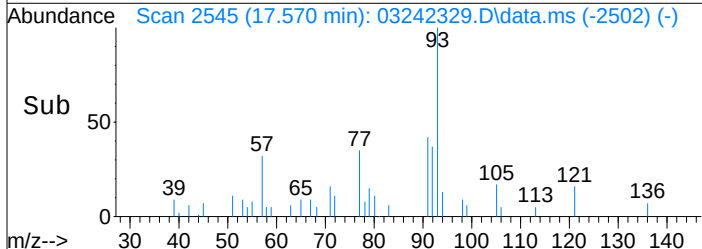
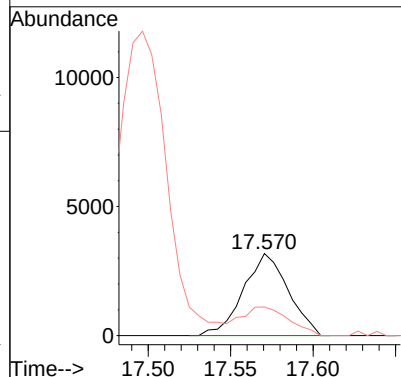
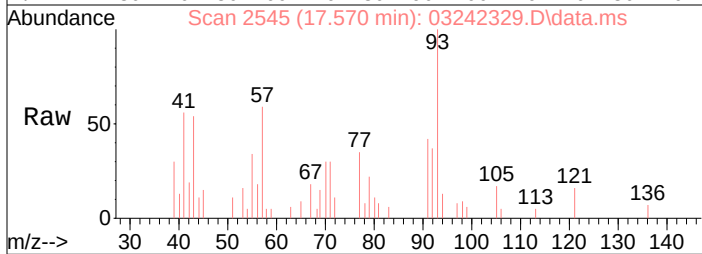
Tgt Ion: 105 Resp: 581908
Ion Ratio Lower Upper
105 100
120 25.0 5.2 45.2





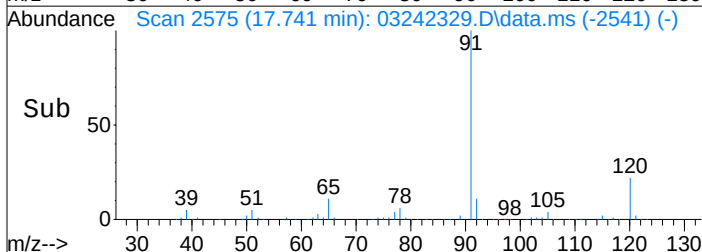
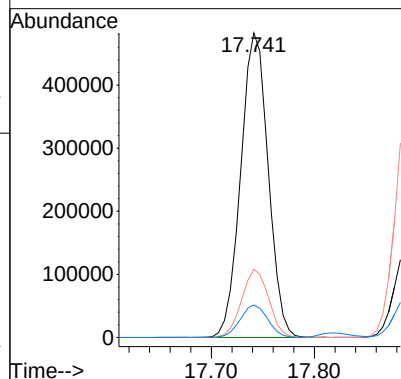
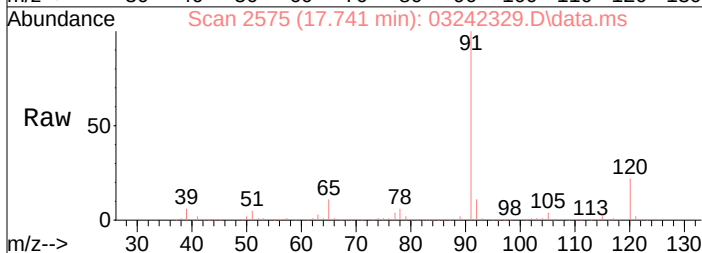
#75
 alpha-Pinene
 Concen: 0.12 ng
 RT: 17.57 min Scan# 2545
 Delta R.T. -0.006 min
 Lab File: 03242329.D
 Acq: 24 Mar 2023 23:26

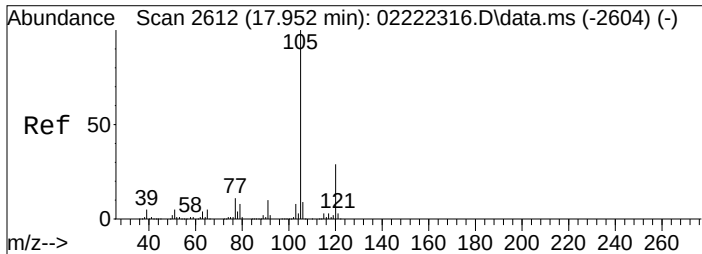
Tgt Ion:	93	Resp:	6012
Ion Ratio	Lower	Upper	
93	100		
77	36.9	11.1	51.1



#76
 n-Propylbenzene
 Concen: 6.68 ng
 RT: 17.74 min Scan# 2575
 Delta R.T. -0.006 min
 Lab File: 03242329.D
 Acq: 24 Mar 2023 23:26

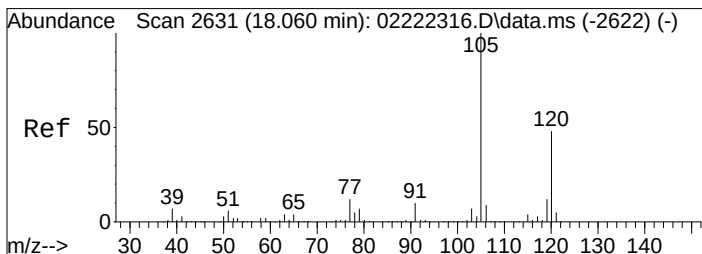
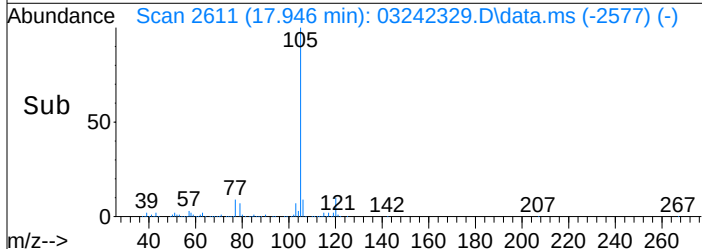
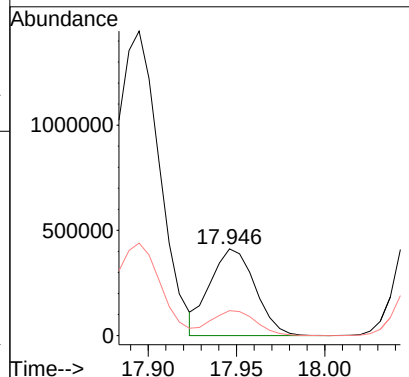
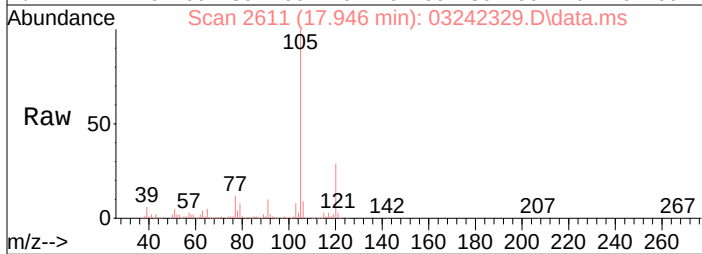
Tgt Ion:	91	Resp:	892885
Ion Ratio	Lower	Upper	
91	100		
120	22.0	2.7	42.7
65	10.7	0.0	30.7





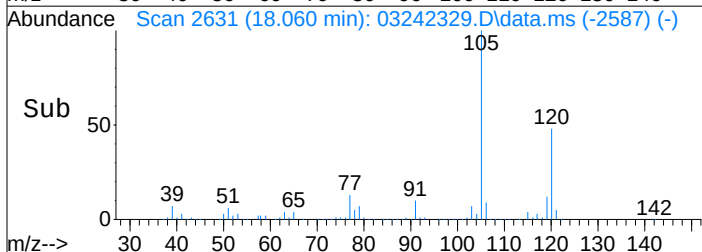
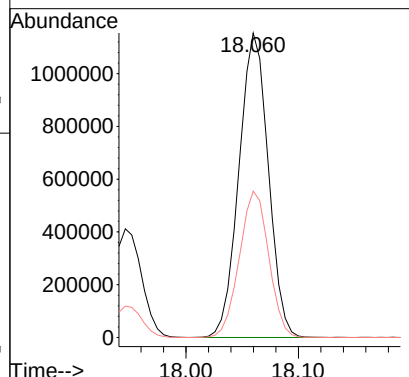
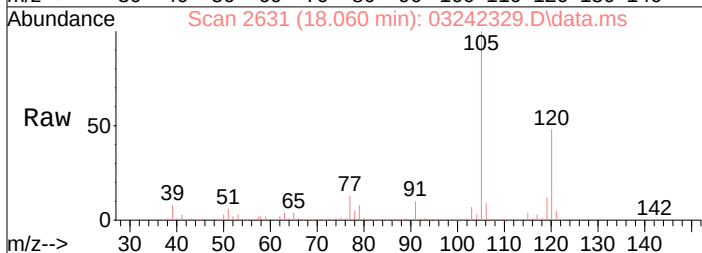
#78
 4-Ethyltoluene
 Concen: 6.83 ng
 RT: 17.95 min Scan# 2611
 Delta R.T. -0.006 min
 Lab File: 03242329.D
 Acq: 24 Mar 2023 23:26

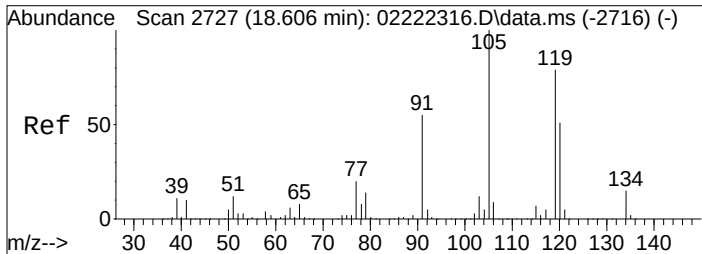
Tgt Ion:	105	Resp:	729759
Ion Ratio	Lower	Upper	
105	100		
120	29.0	9.1	49.1



#79
 1,3,5-Trimethylbenzene
 Concen: 22.20 ng
 RT: 18.06 min Scan# 2631
 Delta R.T. -0.000 min
 Lab File: 03242329.D
 Acq: 24 Mar 2023 23:26

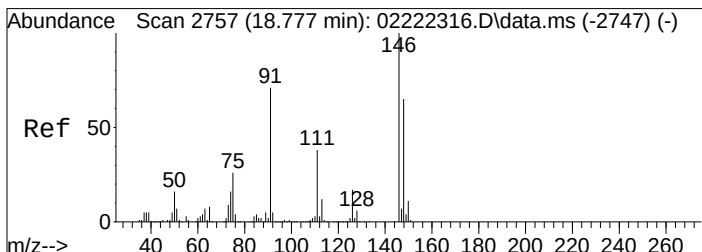
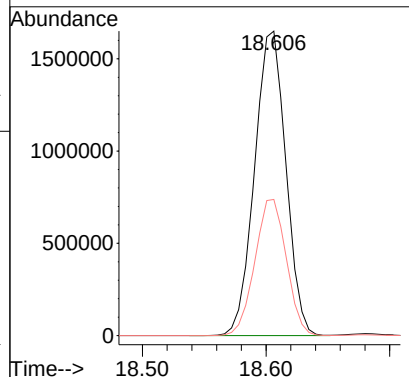
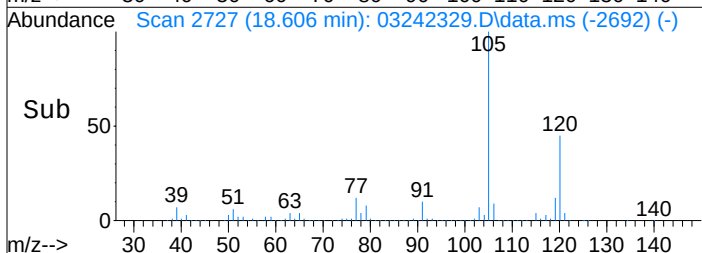
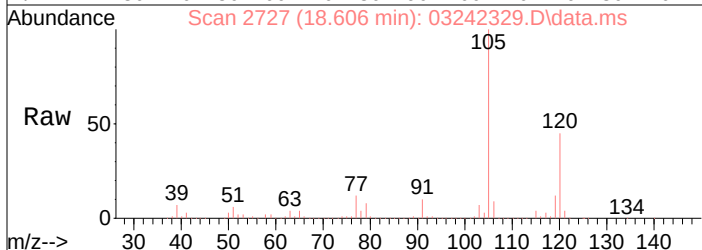
Tgt Ion:	105	Resp:	2098305
Ion Ratio	Lower	Upper	
105	100		
120	48.1	28.4	68.4





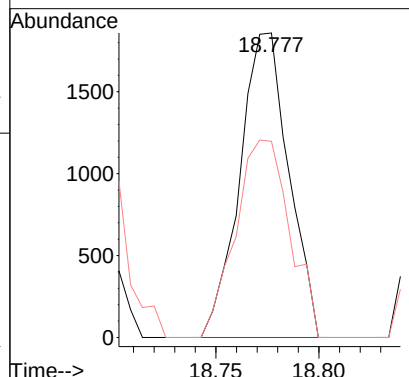
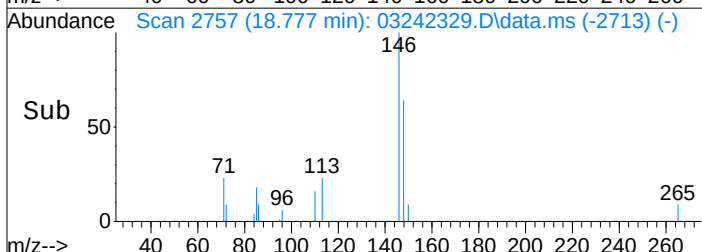
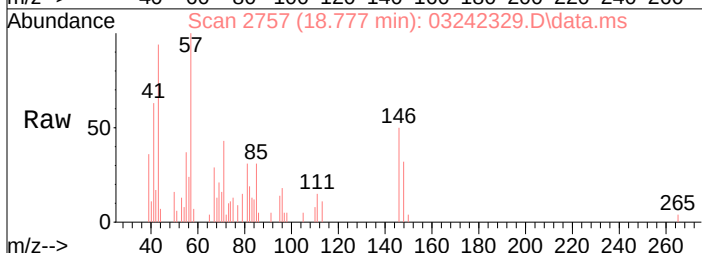
#82
 1,2,4-Trimethylbenzene
 Concen: 31.17 ng
 RT: 18.61 min Scan# 2727
 Delta R.T. -0.000 min
 Lab File: 03242329.D
 Acq: 24 Mar 2023 23:26

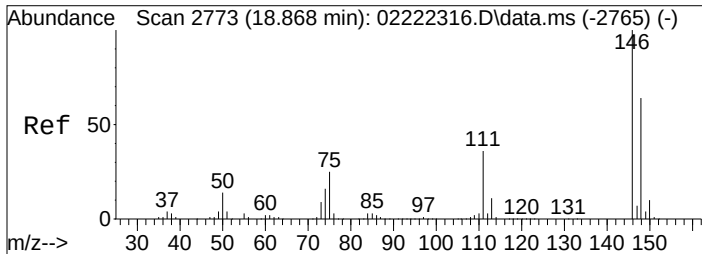
Tgt Ion:	105	Resp:	2905335
Ion Ratio	Lower	Upper	
105	100		
120	45.0	32.8	72.8



#85
 1,3-Dichlorobenzene
 Concen: 0.05 ng
 RT: 18.78 min Scan# 2757
 Delta R.T. -0.000 min
 Lab File: 03242329.D
 Acq: 24 Mar 2023 23:26

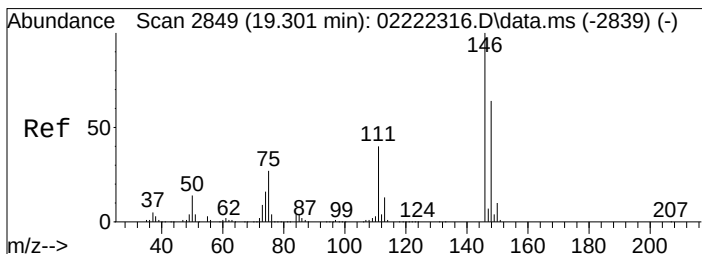
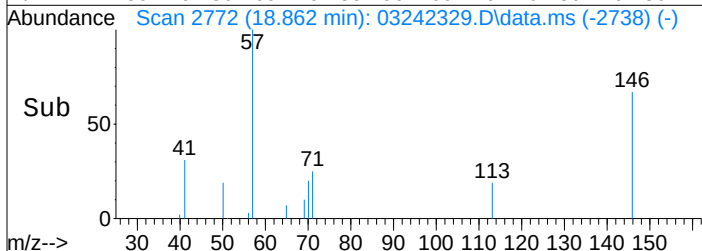
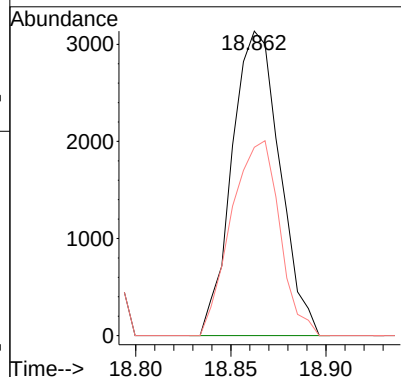
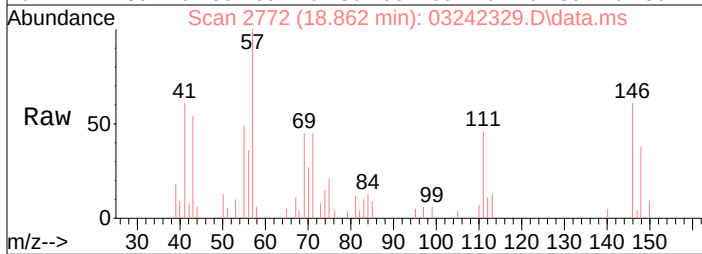
Tgt Ion:	146	Resp:	3077
Ion Ratio	Lower	Upper	
146	100		
148	71.9	44.4	84.4





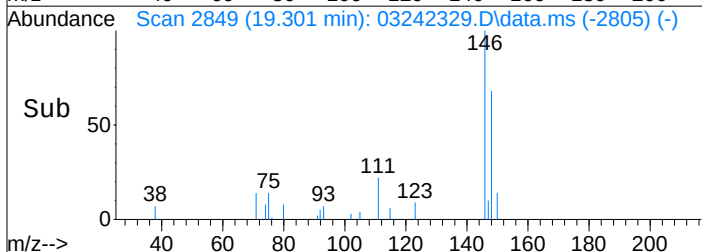
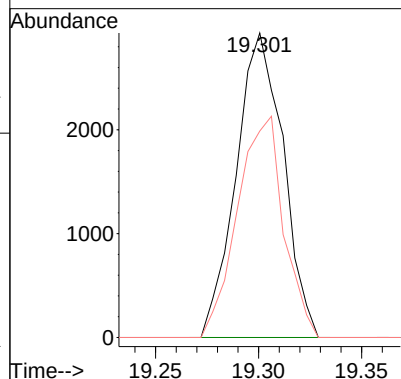
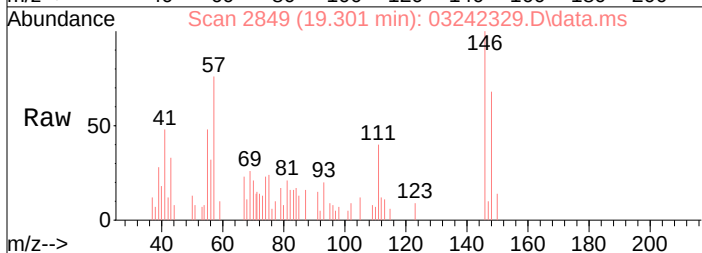
#86
 1,4-Dichlorobenzene
 Concen: 0.09 ng
 RT: 18.86 min Scan# 2772
 Delta R.T. -0.006 min
 Lab File: 03242329.D
 Acq: 24 Mar 2023 23:26

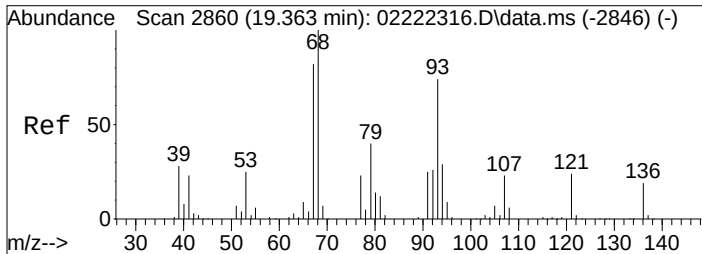
Tgt Ion	Ratio	Resp	Lower	Upper
146	100	5480		
148	64.8	44.7		84.7



#90
 1,2-Dichlorobenzene
 Concen: 0.08 ng
 RT: 19.30 min Scan# 2849
 Delta R.T. -0.000 min
 Lab File: 03242329.D
 Acq: 24 Mar 2023 23:26

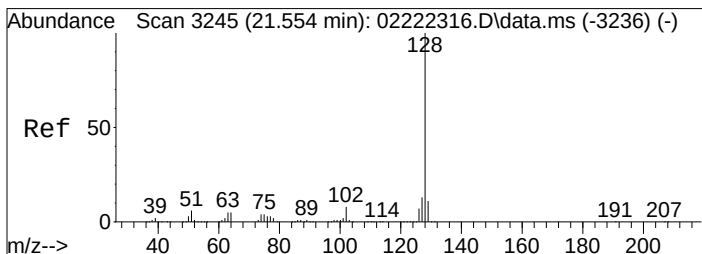
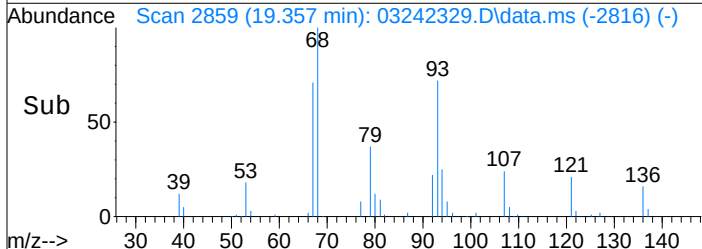
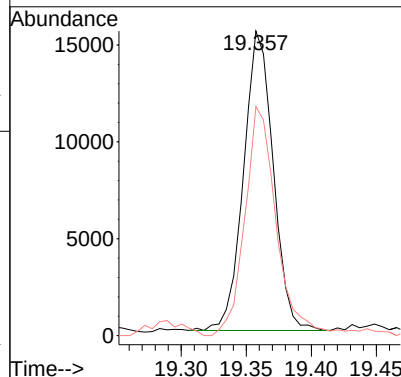
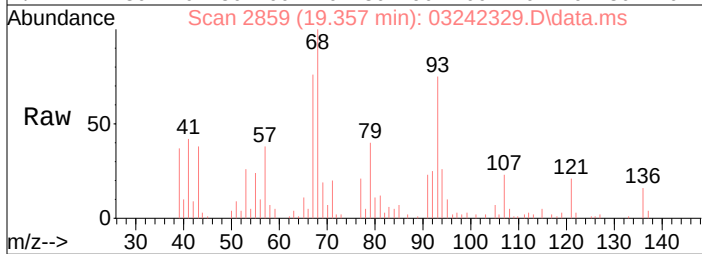
Tgt Ion	Ratio	Resp	Lower	Upper
146	100	4659		
148	71.2	44.4		84.4





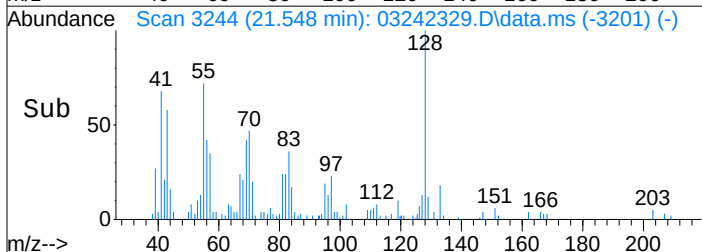
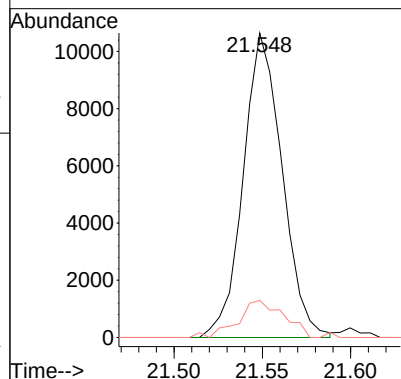
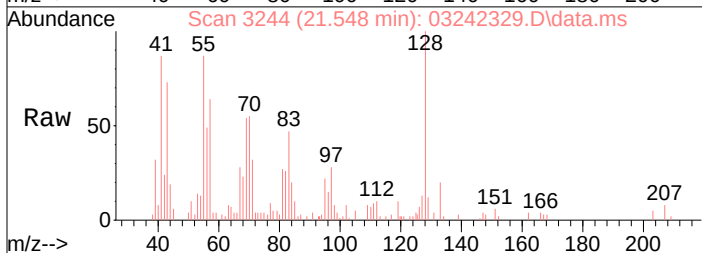
#91
d-Limonene
Concen: 0.78 ng
RT: 19.36 min Scan# 2859
Delta R.T. -0.006 min
Lab File: 03242329.D
Acq: 24 Mar 2023 23:26

Tgt Ion:	68	Resp:	24468
Ion Ratio	Lower	Upper	
68	100		
93	83.5	54.8	94.8



#95
Naphthalene
Concen: 0.16 ng
RT: 21.55 min Scan# 3244
Delta R.T. -0.006 min
Lab File: 03242329.D
Acq: 24 Mar 2023 23:26

Tgt Ion:	128	Resp:	16291
Ion Ratio	Lower	Upper	
128	100		
129	14.4	0.0	30.9



Data File : I:\MS13\DATA\2023_03\24\03242329.D
 Acq On : 24 Mar 2023 23:26
 Sample : P2301250-024 (1000mL)
 Misc : S35-01202301

Vial: 13
 Operator: TZ
 Inst : MS13

TZ 3/28/23

Quant Time: Mar 28 10:11:53 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.33	130	246155	12.500	ng	0.01
16) 1,4-Difluorobenzene (C_2)	9.38	114	1093167	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	14.88	54	203816	12.500	ng	0.00

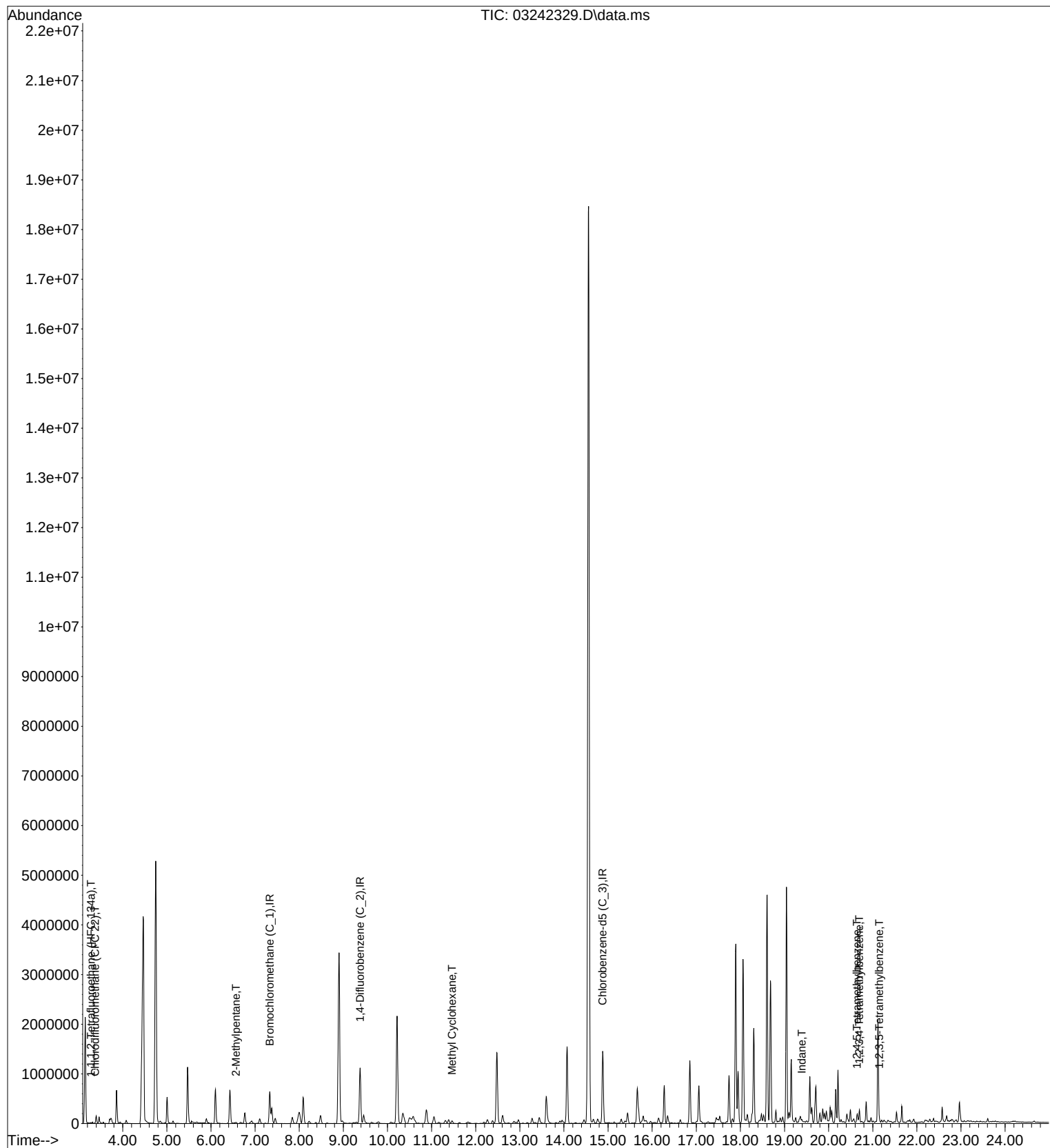
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.24	85	876	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.28	83	3864	0.195	ng	# 75
4) 1,1-Difluoroethane	3.34	65	759	N.D.		
5) Chlorodifluoromethane ...	3.38	67	1683	0.280	ng	# 41
6) 1-Chloro-1,1-Difluoroe...	3.59	65	2225	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	0.00	43	0	N.D.	d	
12) 2-Methylpentane	6.57	71	4824	0.280	ng	# 1
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	8.90	75	722	N.D.		
15) Thiophene	9.12	84	1012	N.D.		
17) 2,3-Dimethylpentane	9.57	56	2969	N.D.		
18) Dibromomethane	9.89	174	413	N.D.		
20) Methyl Cyclohexane	11.46	55	15498	0.457	ng	# 53
21) 1,3-Dichloropropane	12.63	76	1244	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	15.23	91	460	N.D.		
24) 1,2,3-Trichloropropane	0.00	75	0	N.D.	d	
25) Bromobenzene	0.00	77	0	N.D.	d	
26) 2-Chlorotoluene	0.00	91	0	N.D.	d	
27) 4-Chlorotoluene	0.00	91	0	N.D.	d	
28) Indane	19.39	117	33240	0.324	ng	95
29) Indene	19.51	115	2004	N.D.		
30) 1,2,4,5-Tetramethylben...	20.64	119	80840	0.789	ng	96
31) 1,2,3,4-Tetramethylben...	20.69	119	125876	1.198	ng	97
32) 1,2,3,5-Tetramethylben...	21.14	119	35628	0.360	ng	93
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242329.D
Acq On : 24 Mar 2023 23:26
Sample : P2301250-024 (1000mL)
Misc : S35-01202301

Vial: 13
Operator: TZ
Inst : MS13

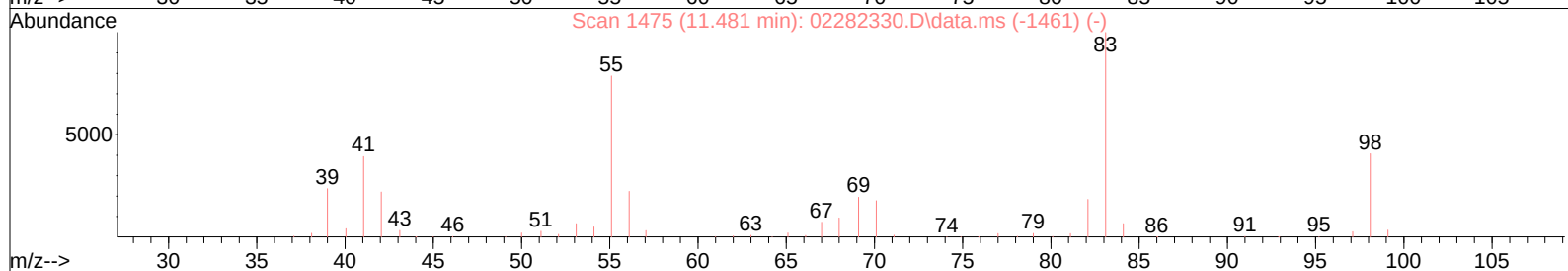
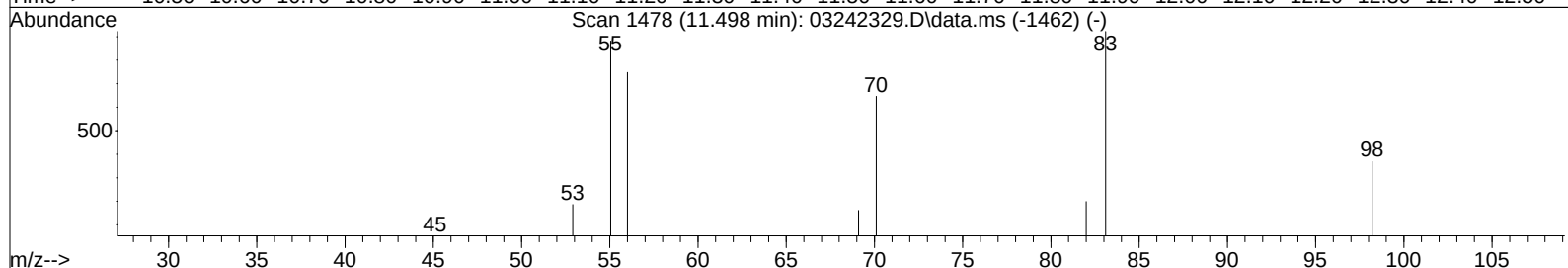
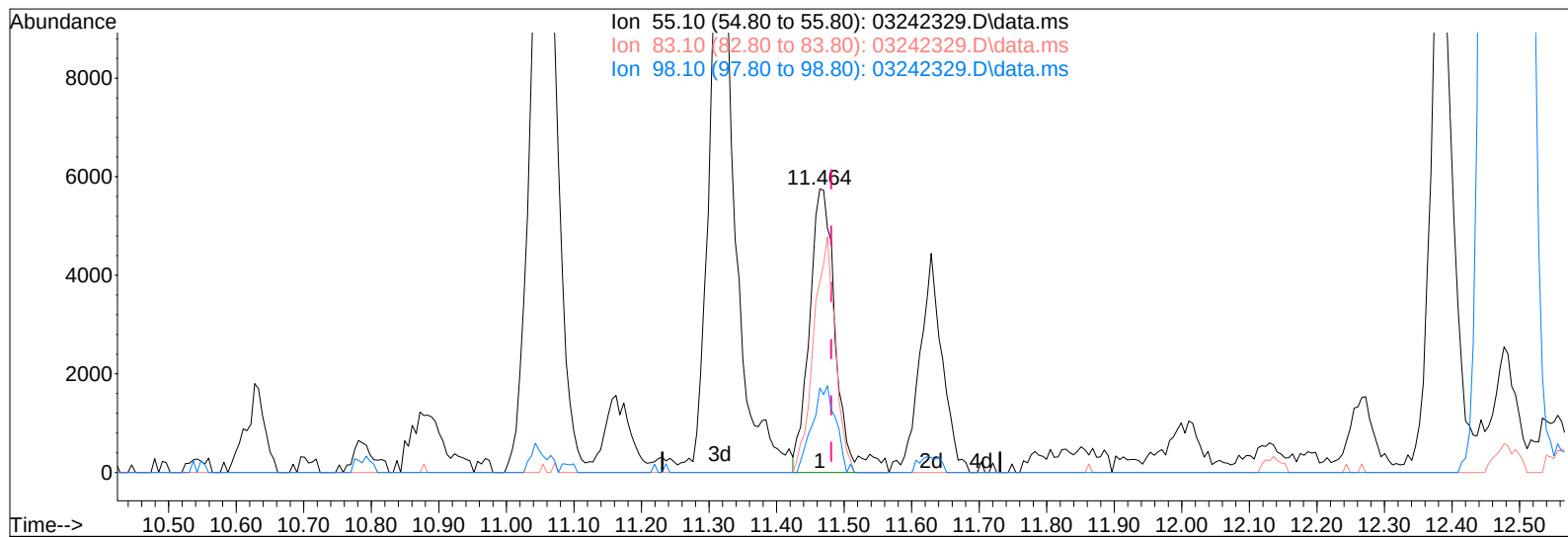
Quant Time: Mar 28 10:11:53 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242329.D
Acq On : 24 Mar 2023 23:26
Sample : P2301250-024 (1000mL)
Misc : S35-01202301

Vial: 13
Operator: TZ
Inst : MS13

Quant Time: Mar 27 16:04:21 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03242329.D\data.ms

(20) Methyl Cyclohexane (T)

11.464min (-0.017) 0.46ng

response 15498

Ion	Exp%	Act%
55.10	100	100
83.10	128.30	69.09#
98.10	53.10	27.48#
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG34-3

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-025

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02389

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/25/23

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -3.35 Final Pressure (psig): 3.81

Container Dilution Factor: 1.63

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	0.86	0.14	0.48	0.17	0.029	
74-87-3	Chloromethane	ND	0.34	0.14	ND	0.17	0.068	
75-01-4	Vinyl Chloride	0.095	0.18	0.093	0.037	0.070	0.036	J
74-83-9	Bromomethane	ND	0.34	0.12	ND	0.088	0.031	
75-00-3	Chloroethane	ND	0.34	0.11	ND	0.13	0.041	
67-64-1	Acetone	9.2	8.6	2.0	3.9	3.6	0.82	
75-69-4	Trichlorofluoromethane	1.1	0.85	0.13	0.20	0.15	0.024	
75-35-4	1,1-Dichloroethene	ND	0.18	0.12	ND	0.045	0.030	
75-09-2	Methylene Chloride	7.8	0.86	0.24	2.2	0.25	0.070	
76-13-1	Trichlorotrifluoroethane	0.49	0.88	0.12	0.064	0.11	0.016	J
75-15-0	Carbon Disulfide	0.40	1.7	0.26	0.13	0.56	0.084	J
156-60-5	trans-1,2-Dichloroethene	0.16	0.18	0.12	0.040	0.045	0.030	J
75-34-3	1,1-Dichloroethane	2.2	0.18	0.13	0.56	0.044	0.031	
1634-04-4	Methyl tert-Butyl Ether	ND	0.88	0.10	ND	0.24	0.028	
78-93-3	2-Butanone (MEK)	0.89	1.7	0.18	0.30	0.58	0.061	J
156-59-2	cis-1,2-Dichloroethene	3.7	0.18	0.12	0.93	0.045	0.031	
67-66-3	Chloroform	1.4	0.18	0.12	0.29	0.037	0.024	
107-06-2	1,2-Dichloroethane	ND	0.18	0.096	ND	0.044	0.024	
71-55-6	1,1,1-Trichloroethane	12	0.18	0.11	2.3	0.033	0.020	
71-43-2	Benzene	0.29	0.18	0.13	0.089	0.056	0.039	
56-23-5	Carbon Tetrachloride	0.37	0.18	0.12	0.059	0.029	0.019	
110-82-7	Cyclohexane	ND	1.7	0.24	ND	0.50	0.071	
78-87-5	1,2-Dichloropropane	ND	0.18	0.11	ND	0.039	0.023	
75-27-4	Bromodichloromethane	ND	0.18	0.13	ND	0.027	0.019	
79-01-6	Trichloroethene	350	1.8	1.2	65	0.33	0.22	D

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG34-3

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-025

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02389

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/25/23

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -3.35 Final Pressure (psig): 3.81

Container Dilution Factor: 1.63

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.88	0.14	ND	0.19	0.030	
108-10-1	4-Methyl-2-pentanone	0.25	1.8	0.12	0.061	0.44	0.029	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.83	0.18	ND	0.18	0.040	
79-00-5	1,1,2-Trichloroethane	ND	0.18	0.088	ND	0.033	0.016	
108-88-3	Toluene	3.3	0.86	0.11	0.88	0.23	0.028	
591-78-6	2-Hexanone	0.21	1.8	0.11	0.050	0.44	0.026	J
124-48-1	Dibromochloromethane	ND	0.18	0.11	ND	0.021	0.013	
106-93-4	1,2-Dibromoethane	ND	0.18	0.10	ND	0.023	0.013	
127-18-4	Tetrachloroethene	47	0.18	0.11	6.9	0.026	0.017	
108-90-7	Chlorobenzene	0.99	0.86	0.12	0.22	0.19	0.025	
100-41-4	Ethylbenzene	0.70	0.86	0.12	0.16	0.20	0.028	J
179601-23-1	m,p-Xylenes	2.7	1.8	0.23	0.61	0.41	0.053	
75-25-2	Bromoform	ND	0.88	0.18	ND	0.085	0.017	
100-42-5	Styrene	0.47	0.86	0.14	0.11	0.20	0.033	J
95-47-6	o-Xylene	1.1	0.86	0.13	0.25	0.20	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.18	0.12	ND	0.026	0.018	
98-82-8	Cumene	ND	0.88	0.13	ND	0.18	0.026	
541-73-1	1,3-Dichlorobenzene	ND	0.86	0.13	ND	0.14	0.022	
106-46-7	1,4-Dichlorobenzene	ND	0.86	0.13	ND	0.14	0.022	
95-50-1	1,2-Dichlorobenzene	ND	0.88	0.13	ND	0.15	0.021	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.8	0.16	ND	0.19	0.017	
120-82-1	1,2,4-Trichlorobenzene	ND	1.8	0.21	ND	0.24	0.029	
79-20-9	Methyl Acetate	ND	0.82	0.39	ND	0.27	0.13	X
108-87-2	Methylcyclohexane	ND	0.82	0.42	ND	0.20	0.11	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS13\DATA\2023_03\24\03242330.D
 Acq On : 25 Mar 2023 00:03
 Sample : P2301250-025 (1000mL)
 Misc : S35-01202301

Vial: 14
 Operator: TZ
 Inst : MS13

TZ 3/27/23

Quant Time: Mar 27 14:05:52 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	246431	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.38	114	1092128	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	208197	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	416273	12.729	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	101.84%
57) Toluene-d8 (SS2)	12.48	98	1249110	11.666	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.36%
73) Bromofluorobenzene (SS3)	16.85	174	457450	11.665	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.28%

Target Compounds

						Qvalue
2) Propene	3.42	42	9707	0.394	ng	# 65
3) Dichlorodifluoromethan...	3.49	85	65329	1.447	ng	100
4) Chloromethane	3.54	50	124	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	3.72	135	1220	0.054	ng	81
6) Vinyl Chloride	3.81	62	1737	0.058	ng	93
7) 1,3-Butadiene	3.88	54	728	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	4.27	64	195	N.D.		
10) Ethanol	4.42	45	343603	19.633	ng	99
11) Acetonitrile	4.56	41	4401	0.097	ng	# 21
12) Acrolein	4.65	56	3010	0.208	ng	93
13) Acetone	4.75	58	84687	5.670	ng	91
14) Trichlorofluoromethane	4.86	101	28078	0.691	ng	100
15) 2-Propanol (Isopropanol)	4.96	45	70241	1.165	ng	97
16) Acrylonitrile	5.10	53	783	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.45	84	104708	4.782	ng	94
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	5.69	151	6463	0.302	ng	97
22) Carbon Disulfide	5.71	76	21041	0.243	ng	98
23) trans-1,2-Dichloroethene	6.23	61	3085	0.097	ng	90
24) 1,1-Dichloroethane	6.41	63	53762	1.380	ng	98
25) Methyl tert-Butyl Ether	6.40	73	1564	N.D.		
26) Vinyl Acetate	6.54	86	1491	0.369	ng	# 70
27) 2-Butanone (MEK)	6.79	72	7220	0.544	ng	100
28) cis-1,2-Dichloroethene	7.16	61	70989	2.255	ng	99
29) Diisopropyl Ether	7.38	87	633	N.D.		
30) Ethyl Acetate	7.39	61	45666	5.237	ng	97
31) n-Hexane	7.39	57	5908	0.176	ng	94
32) Chloroform	7.44	83	34947	0.880	ng	98
34) Tetrahydrofuran (THF)	7.88	72	2956	0.217	ng	89
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.19	62	127	N.D.		
38) 1,1,1-Trichloroethane	8.48	97	275259	7.615	ng	99
39) Isopropyl Acetate	9.38	61	31939	No Calib		
40) 1-Butanol	8.88	56	58934	No Calib	#	
41) Benzene	8.98	78	14880	0.175	ng	98
42) Carbon Tetrachloride	9.14	117	7265	0.228	ng	95
43) Cyclohexane	9.28	84	1172	N.D.		
44) tert-Amyl Methyl Ether	9.68	73	934	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	10.14	83	2073	0.066	ng	97
47) Trichloroethene	10.22	130	5051578	202.956	ng	99
48) 1,4-Dioxane	0.00	88	0	N.D.	d	
49) 2,2,4-Trimethylpentane...	10.31	57	3103	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS13\DATA\2023_03\24\03242330.D
 Acq On : 25 Mar 2023 00:03
 Sample : P2301250-025 (1000mL)
 Misc : S35-01202301

Vial: 14
 Operator: TZ
 Inst : MS13

Quant Time: Mar 27 14:05:52 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

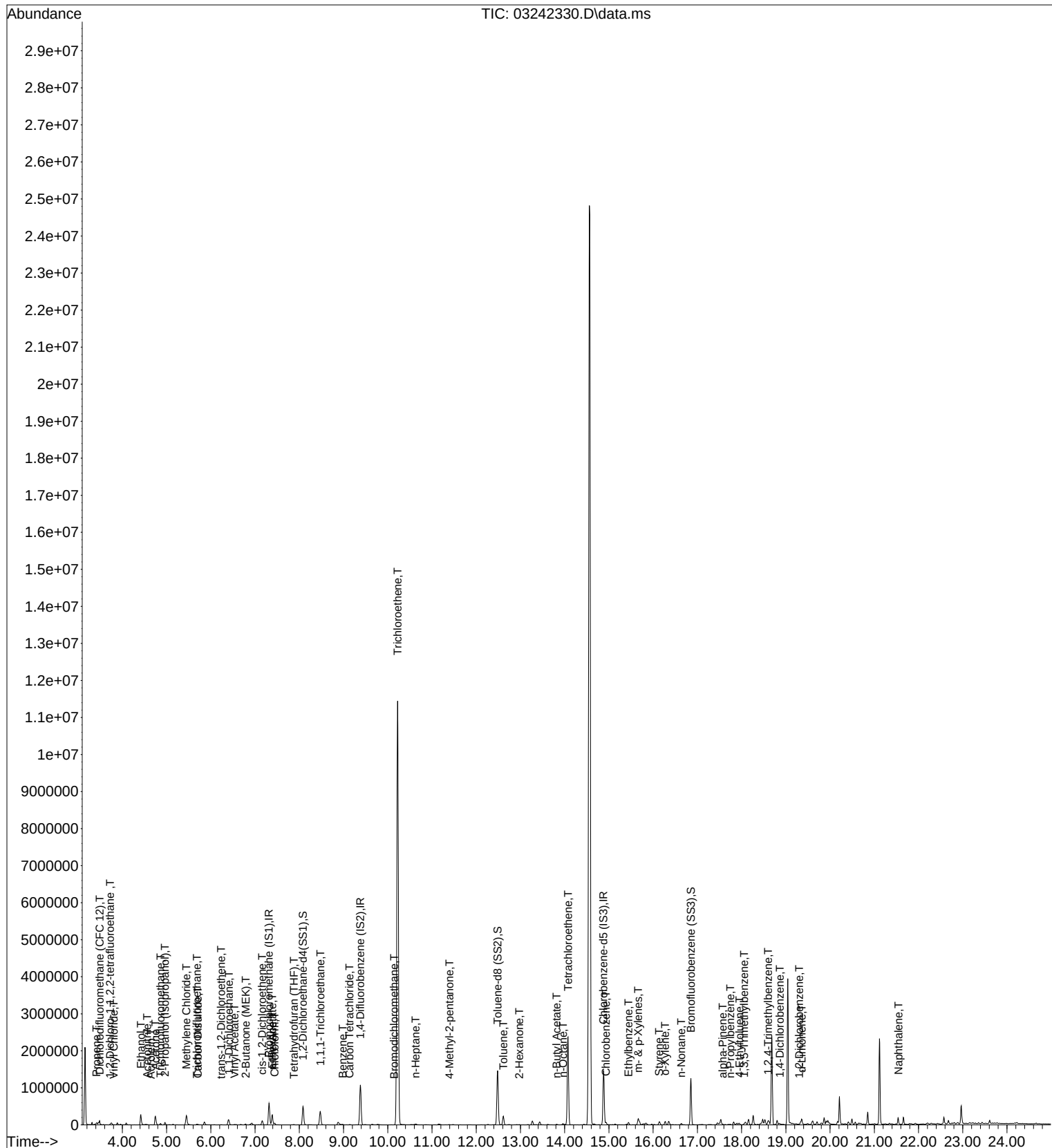
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.63	71	5834	0.284	ng	96
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.40	58	2798	0.153	ng	# 88
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	12.24	97	173	N.D.		
58) Toluene	12.61	91	208004	2.041	ng	99
59) 2-Hexanone	12.97	43	6260	0.126	ng	# 70
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.82	43	16864	0.300	ng	95
63) n-Octane	13.96	57	6566	0.328	ng	94
64) Tetrachloroethene	14.08	166	885150	28.545	ng	99
65) Chlorobenzene	14.94	112	41004	0.610	ng	99
66) Ethylbenzene	15.44	91	52483	0.432	ng	98
67) m- & p-Xylenes	15.66	91	159639	1.631	ng	98
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.14	104	19484	0.290	ng	98
70) o-Xylene	16.27	91	62874	0.672	ng	99
71) n-Nonane	16.64	43	17566	0.388	ng	88
72) 1,1,2,2-Tetrachloroethane	16.24	83	113	N.D.		
74) Cumene	17.06	105	5639	N.D.		
75) alpha-Pinene	17.58	93	8408	0.160	ng	83
76) n-Propylbenzene	17.75	91	11455	0.084	ng	98
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	13061	0.120	ng	98
79) 1,3,5-Trimethylbenzene	18.06	105	13756	0.142	ng	92
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.60	105	44838	0.471	ng	90
83) n-Decane	17.12	58	2043	No Calib	#	
84) Benzyl Chloride	18.75	91	658	N.D.		
85) 1,3-Dichlorobenzene	18.77	146	2868	N.D.		
86) 1,4-Dichlorobenzene	18.86	146	4461	0.075	ng	93
87) sec-Butylbenzene	18.96	105	1663	N.D.		
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.	d	
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.30	146	4206	0.074	ng	95
91) d-Limonene	19.36	68	34328	1.066	ng	100
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.26	58	6508	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	456	N.D.		
95) Naphthalene	21.55	128	12386	0.120	ng	97
96) n-Dodecane	19.14	58	858	No Calib	#	
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	15.68	55	873	No Calib	#	
99) tert-Butylbenzene	0.00	119	0	N.D.	d	
100) n-Butylbenzene	0.00	91	0	N.D.	d	
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242330.D
Acq On : 25 Mar 2023 00:03
Sample : P2301250-025 (1000mL)
Misc : S35-01202301

Vial: 14
Operator: TZ
Inst : MS13

Quant Time: Mar 27 14:05:52 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242330.D
 Acq On : 25 Mar 2023 00:03
 Sample : P2301250-025 (1000mL)
 Misc : S35-01202301

Vial: 14
 Operator: TZ
 Inst : MS13

TZ 3/27/23

Quant Time: Mar 27 14:05:52 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	246431	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.38	114	1092128	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	208197	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	416273	12.729	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	101.84%
57) Toluene-d8 (SS2)	12.48	98	1249110	11.666	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.36%
73) Bromofluorobenzene (SS3)	16.85	174	457450	11.665	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.28%

Target Compounds

						Qvalue
2) Propene	3.42	42	9707	0.394	ng	# 65
3) Dichlorodifluoromethan...	3.49	85	65329	1.447	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	3.72	135	1220	0.054	ng	81
6) Vinyl Chloride	3.81	62	1737	0.058	ng	93
10) Ethanol	4.42	45	343603	19.633	ng	99
11) Acetonitrile	4.56	41	4401	0.097	ng	# 21
12) Acrolein	4.65	56	3010	0.208	ng	93
13) Acetone	4.75	58	84687	5.670	ng	91
14) Trichlorofluoromethane	4.86	101	28078	0.691	ng	100
15) 2-Propanol (Isopropanol)	4.96	45	70241	1.165	ng	97
19) Methylene Chloride	5.45	84	104708	4.782	ng	94
21) Trichlorotrifluoroethane	5.69	151	6463	0.302	ng	97
22) Carbon Disulfide	5.71	76	21041	0.243	ng	98
23) trans-1,2-Dichloroethene	6.23	61	3085	0.097	ng	90
24) 1,1-Dichloroethane	6.41	63	53762	1.380	ng	98
26) Vinyl Acetate	6.54	86	1491	0.369	ng	# 70
27) 2-Butanone (MEK)	6.79	72	7220	0.544	ng	100
28) cis-1,2-Dichloroethene	7.16	61	70989	2.255	ng	99
30) Ethyl Acetate	7.39	61	45666	5.237	ng	97
31) n-Hexane	7.39	57	5908	0.176	ng	94
32) Chloroform	7.44	83	34947	0.880	ng	98
34) Tetrahydrofuran (THF)	7.88	72	2956	0.217	ng	89
38) 1,1,1-Trichloroethane	8.48	97	275259	7.615	ng	99
41) Benzene	8.98	78	14880	0.175	ng	98
42) Carbon Tetrachloride	9.14	117	7265	0.228	ng	95
46) Bromodichloromethane	10.14	83	2073	0.066	ng	97
47) Trichloroethene	10.22	130	5051578	202.956	ng	99
51) n-Heptane	10.63	71	5834	0.284	ng	96
53) 4-Methyl-2-pentanone	11.40	58	2798	0.153	ng	# 88
58) Toluene	12.61	91	208004	2.041	ng	99
59) 2-Hexanone	12.97	43	6260	0.126	ng	# 70
62) n-Butyl Acetate	13.82	43	16864	0.300	ng	95
63) n-Octane	13.96	57	6566	0.328	ng	94
64) Tetrachloroethene	14.08	166	885150	28.545	ng	99
65) Chlorobenzene	14.94	112	41004	0.610	ng	99
66) Ethylbenzene	15.44	91	52483	0.432	ng	98
67) m- & p-Xylenes	15.66	91	159639	1.631	ng	98
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70) o-Xylene	16.27	91	62874	0.672	ng	99
71) n-Nonane	16.64	43	17566	0.388	ng	88
75) alpha-Pinene	17.58	93	8408	0.160	ng	83
76) n-Propylbenzene	17.75	91	11455	0.084	ng	98
78) 4-Ethyltoluene	17.95	105	13061	0.120	ng	98
79) 1,3,5-Trimethylbenzene	18.06	105	13756	0.142	ng	92
82) 1,2,4-Trimethylbenzene	18.60	105	44838	0.471	ng	90
86) 1,4-Dichlorobenzene	18.86	146	4461	0.075	ng	93
90) 1,2-Dichlorobenzene	19.30	146	4206	0.074	ng	95

Data File : I:\MS13\DATA\2023_03\24\03242330.D
Acq On : 25 Mar 2023 00:03
Sample : P2301250-025 (1000mL)
Misc : S35-01202301

Vial: 14
Operator: TZ
Inst : MS13

Quant Time: Mar 27 14:05:52 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M

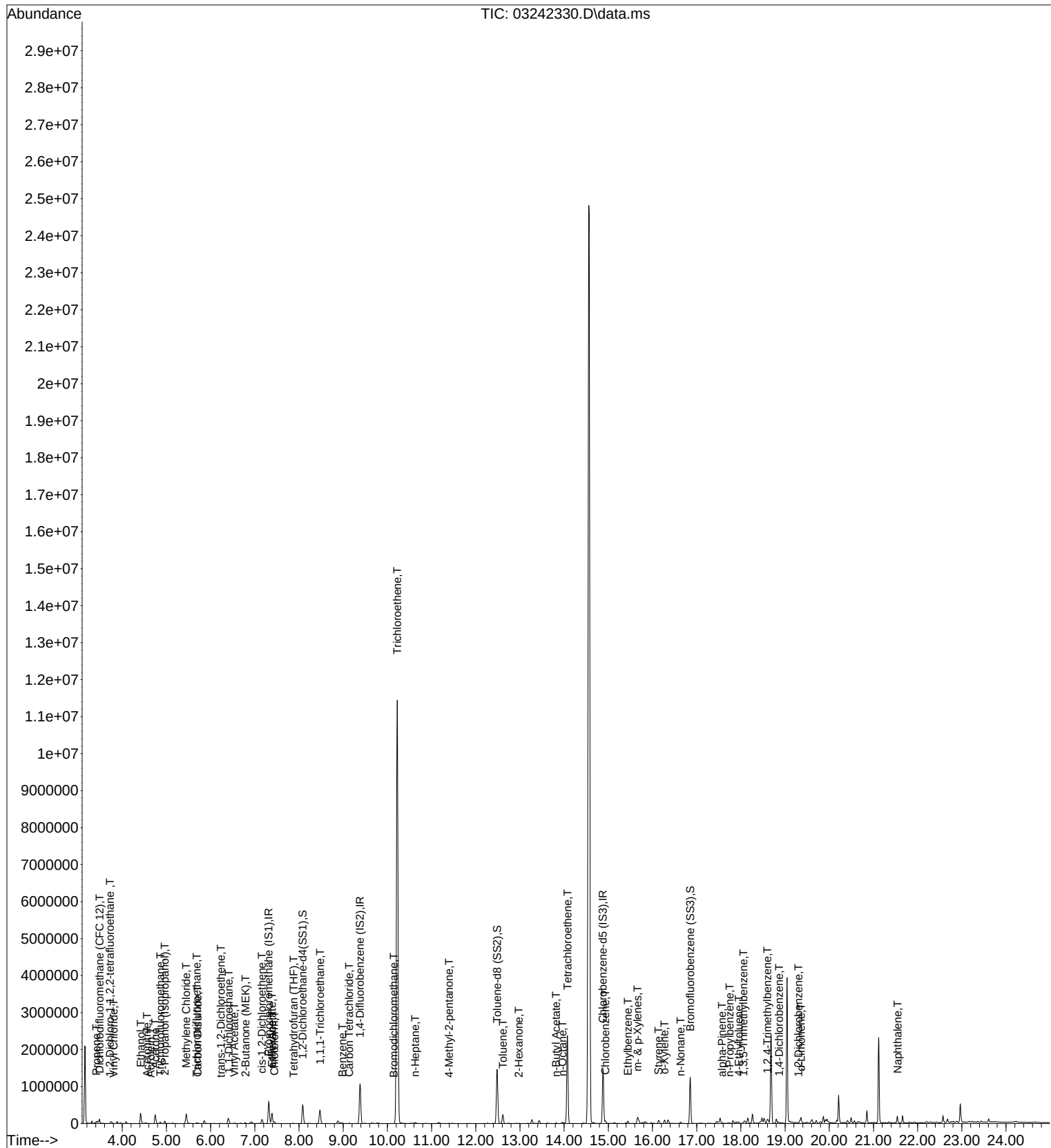
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) d-Limonene	19.36	68	34328	1.066	ng	100
95) Naphthalene	21.55	128	12386	0.120	ng	97

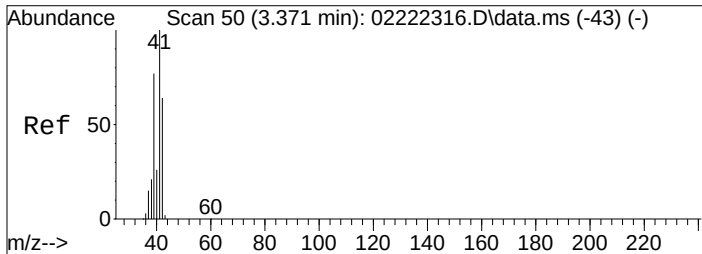
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS13\DATA\2023_03\24\03242330.D
Acq On : 25 Mar 2023 00:03
Sample : P2301250-025 (1000mL)
Misc : S35-01202301

Vial: 14
Operator: TZ
Inst : MS13

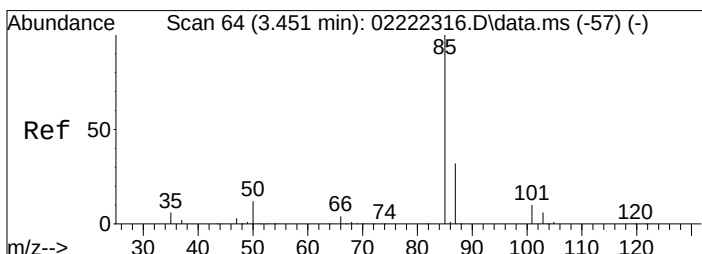
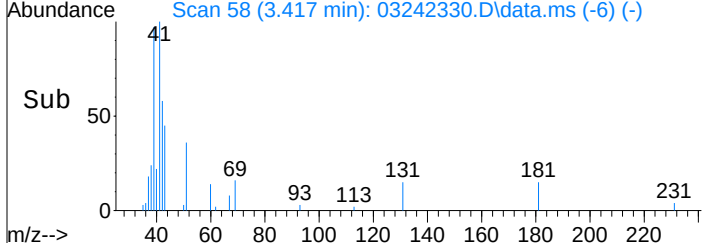
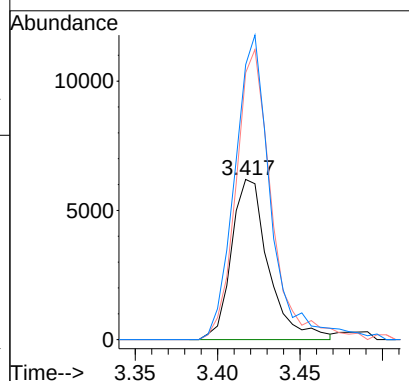
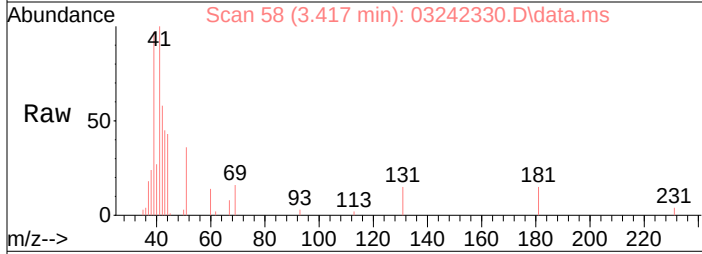
Quant Time: Mar 27 14:05:52 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M





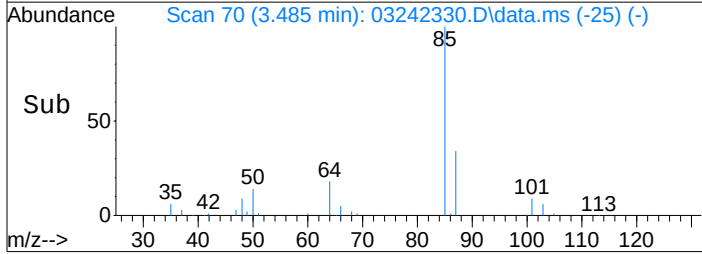
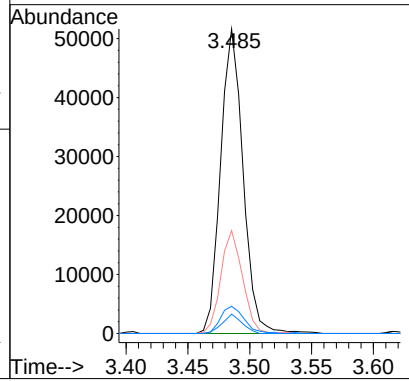
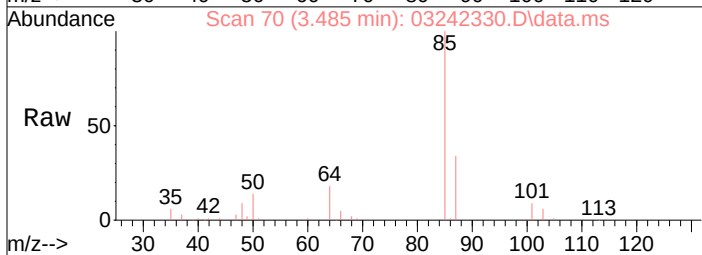
#2
 Propene
 Concen: 0.39 ng
 RT: 3.42 min Scan# 58
 Delta R.T. 0.046 min
 Lab File: 03242330.D
 Acq: 25 Mar 2023 00:03

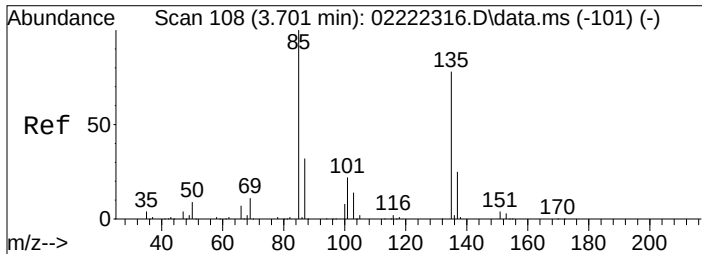
Tgt Ion:	42	Resp:	9707
Ion Ratio	Lower	Upper	
42	100		
39	174.2	100.7	140.7#
41	186.2	134.4	174.4#



#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.45 ng
 RT: 3.49 min Scan# 70
 Delta R.T. 0.007 min
 Lab File: 03242330.D
 Acq: 25 Mar 2023 00:03

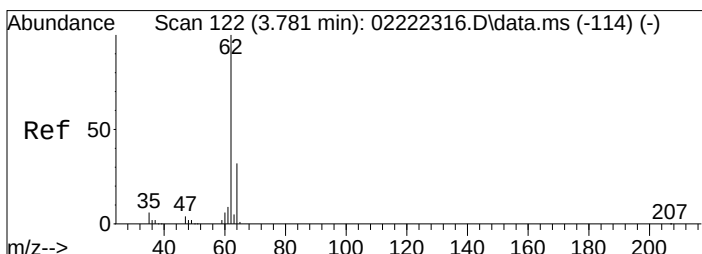
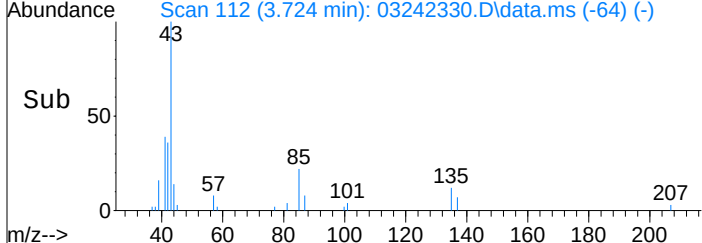
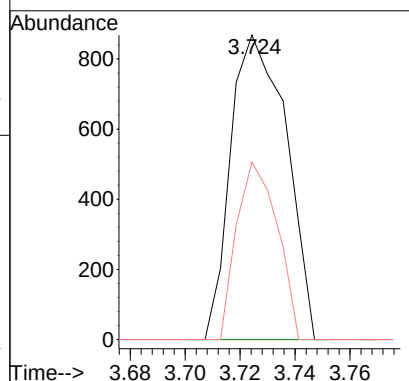
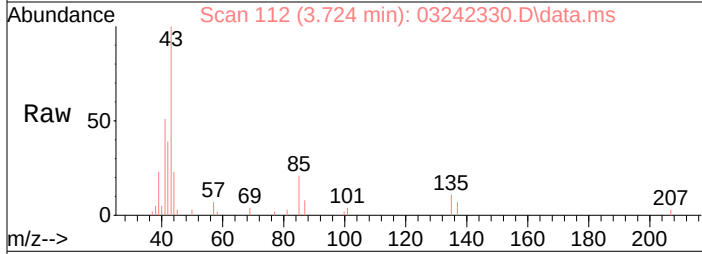
Tgt Ion:	85	Resp:	65329
Ion Ratio	Lower	Upper	
85	100		
87	32.4	12.4	52.4
101	9.3	0.0	29.4
103	5.5	0.0	26.0





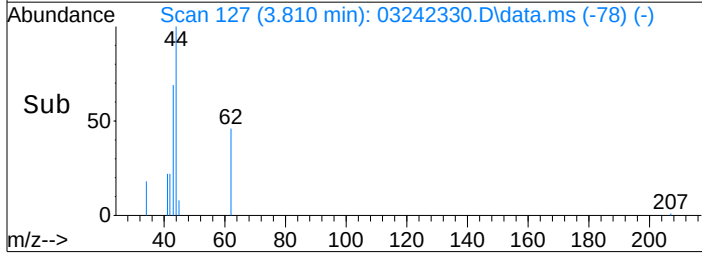
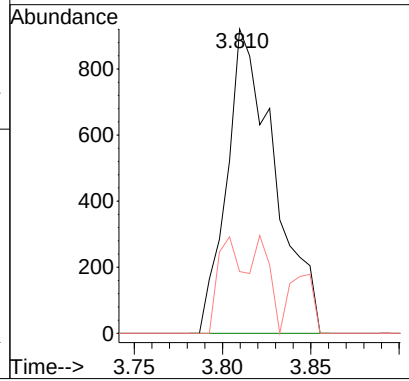
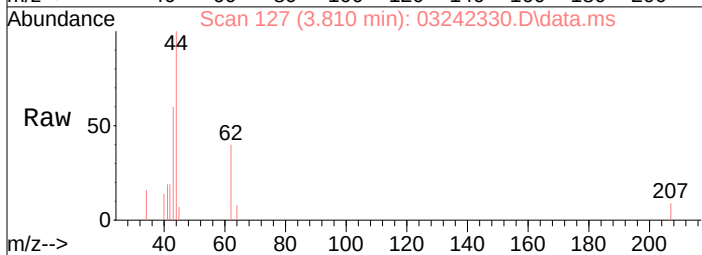
#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.05 ng
 RT: 3.72 min Scan# 112
 Delta R.T. 0.023 min
 Lab File: 03242330.D
 Acq: 25 Mar 2023 00:03

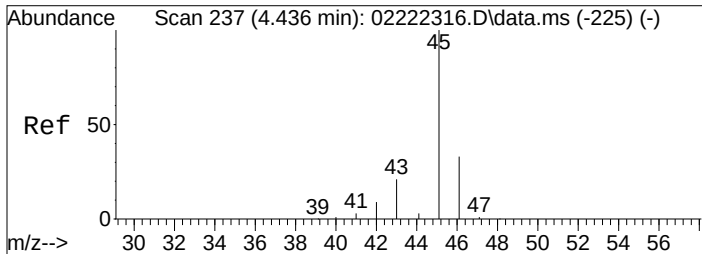
Tgt Ion: 135	Resp: 1220
Ion Ratio	Lower Upper
135 100	
137 42.7	12.2 52.2



#6
 Vinyl Chloride
 Concen: 0.06 ng
 RT: 3.81 min Scan# 127
 Delta R.T. 0.029 min
 Lab File: 03242330.D
 Acq: 25 Mar 2023 00:03

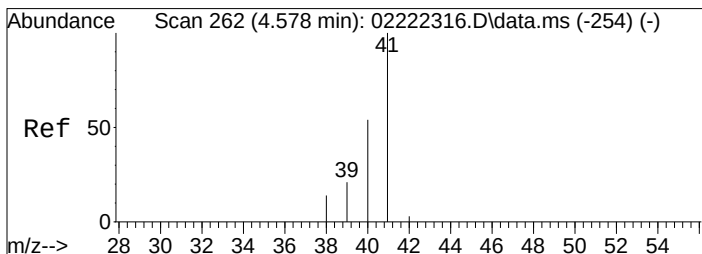
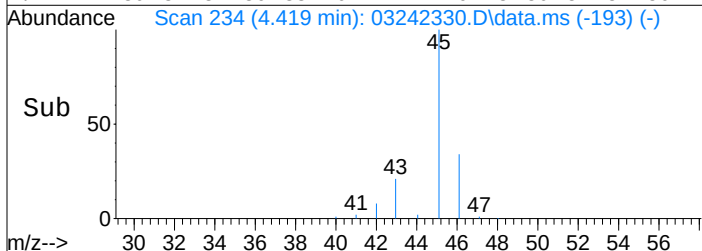
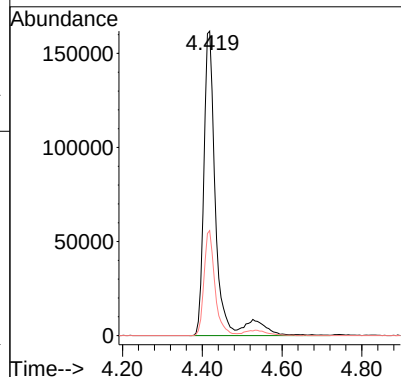
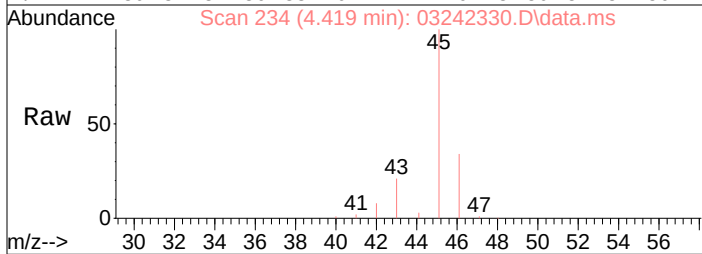
Tgt Ion: 62	Resp: 1737
Ion Ratio	Lower Upper
62 100	
64 27.7	11.8 51.8





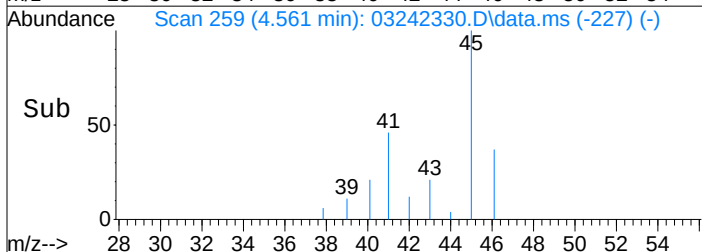
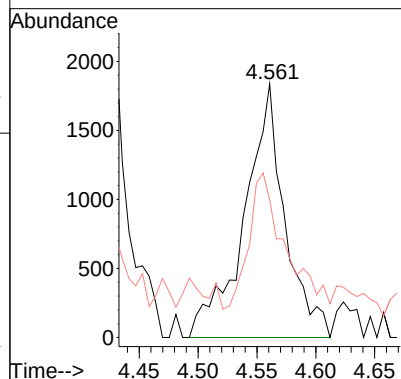
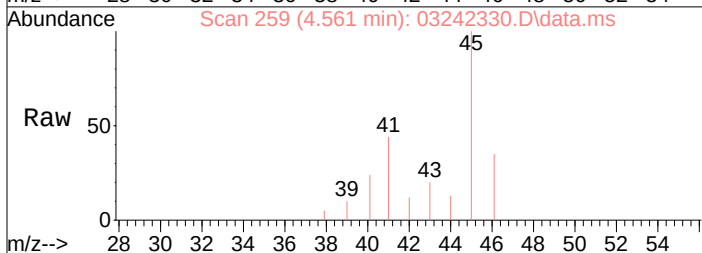
#10
Ethanol
Concen: 19.63 ng
RT: 4.42 min Scan# 234
Delta R.T. -0.017 min
Lab File: 03242330.D
Acq: 25 Mar 2023 00:03

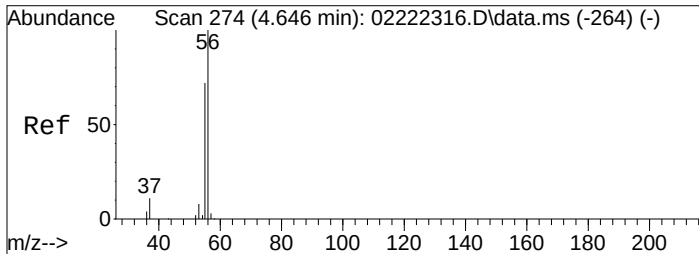
Tgt Ion: 45 Resp: 343603
Ion Ratio Lower Upper
45 100
46 34.2 13.8 53.8



#11
Acetonitrile
Concen: 0.10 ng
RT: 4.56 min Scan# 259
Delta R.T. -0.017 min
Lab File: 03242330.D
Acq: 25 Mar 2023 00:03

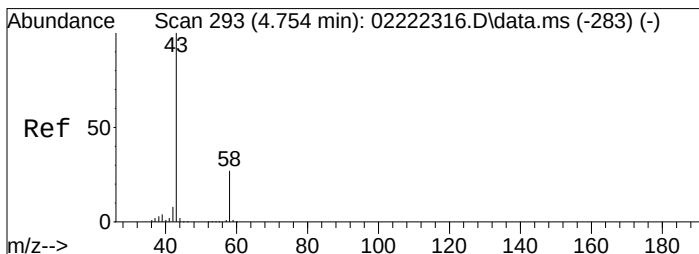
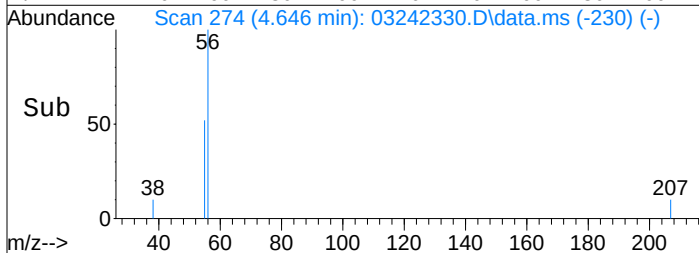
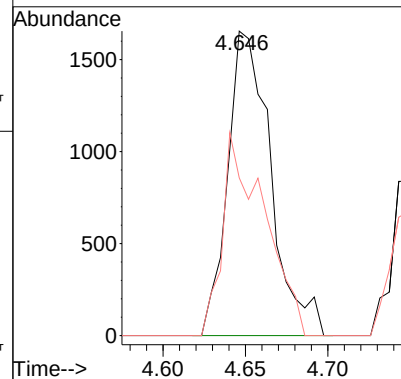
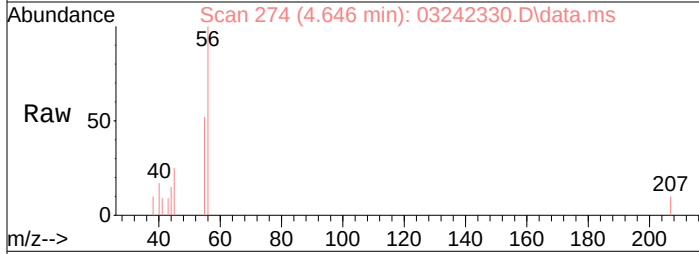
Tgt Ion: 41 Resp: 4401
Ion Ratio Lower Upper
41 100
40 110.9 34.4 74.4#





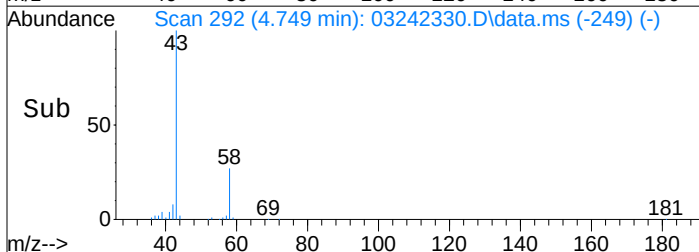
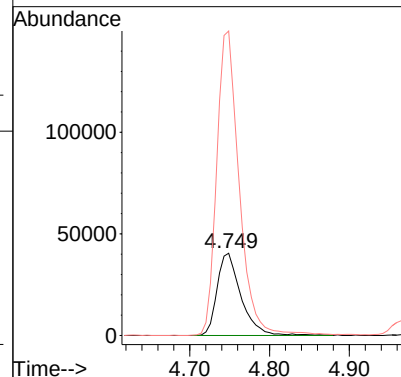
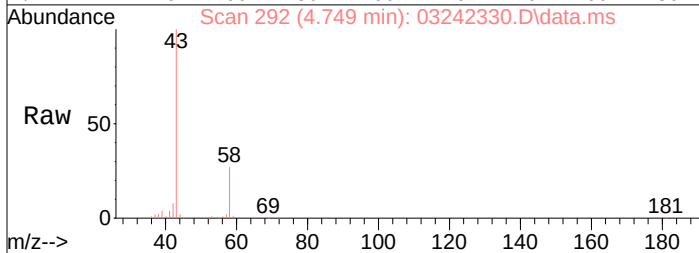
#12
Acrolein
Concen: 0.21 ng
RT: 4.65 min Scan# 274
Delta R.T. 0.000 min
Lab File: 03242330.D
Acq: 25 Mar 2023 00:03

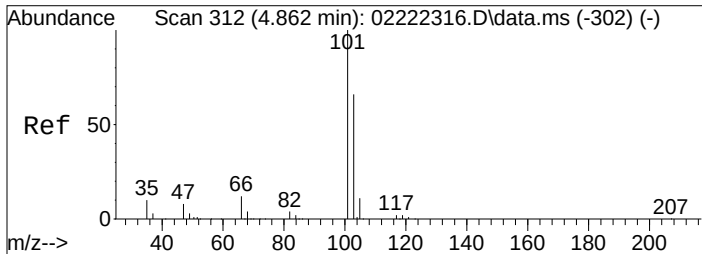
Tgt Ion: 56 Resp: 3010
Ion Ratio Lower Upper
56 100
55 65.1 50.9 90.9



#13
Acetone
Concen: 5.67 ng
RT: 4.75 min Scan# 292
Delta R.T. -0.006 min
Lab File: 03242330.D
Acq: 25 Mar 2023 00:03

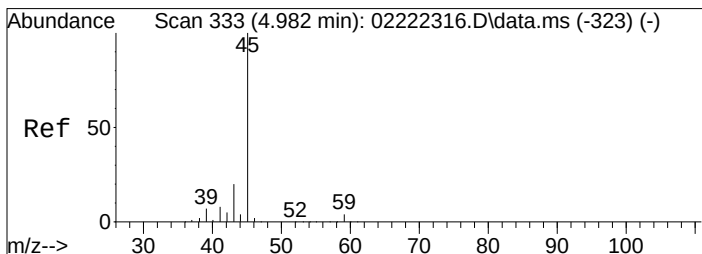
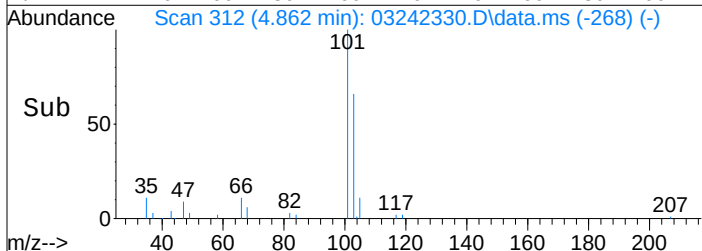
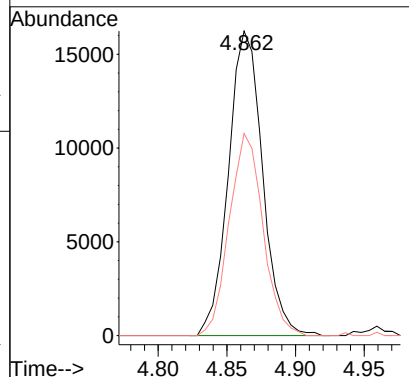
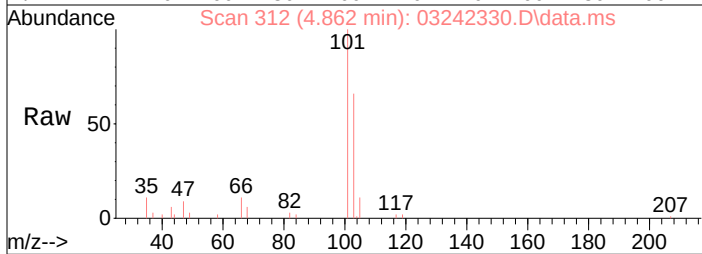
Tgt Ion: 58 Resp: 84687
Ion Ratio Lower Upper
58 100
43 348.7 337.8 397.8





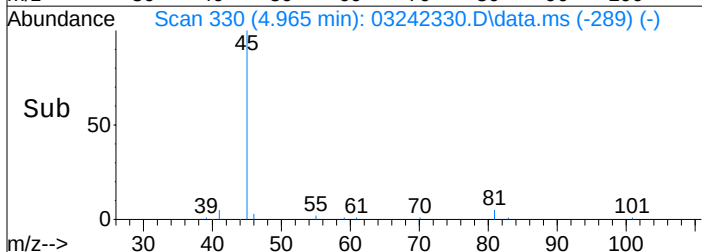
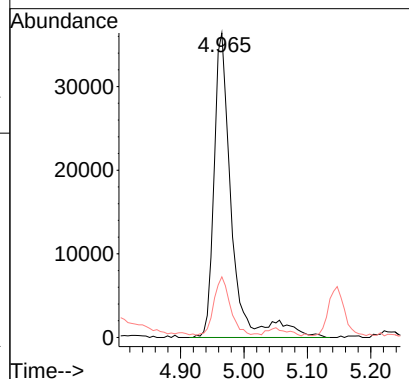
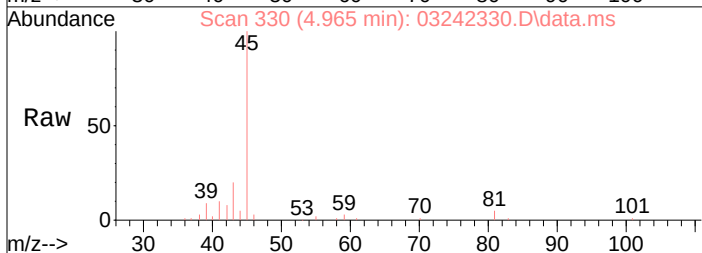
#14
 Trichlorofluoromethane
 Concen: 0.69 ng
 RT: 4.86 min Scan# 312
 Delta R.T. 0.000 min
 Lab File: 03242330.D
 Acq: 25 Mar 2023 00:03

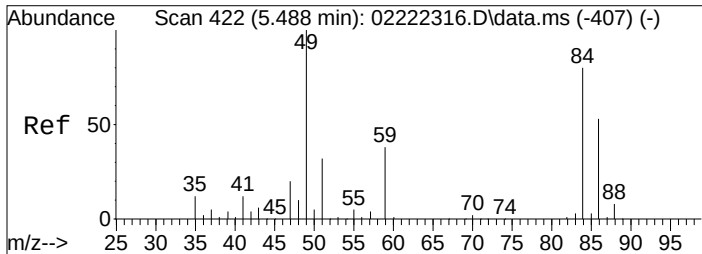
Tgt Ion:	101	Resp:	28078
Ion Ratio	Lower	Upper	
101	100		
103	65.4	45.2	85.2



#15
 2-Propanol (Isopropanol)
 Concen: 1.16 ng
 RT: 4.96 min Scan# 330
 Delta R.T. -0.017 min
 Lab File: 03242330.D
 Acq: 25 Mar 2023 00:03

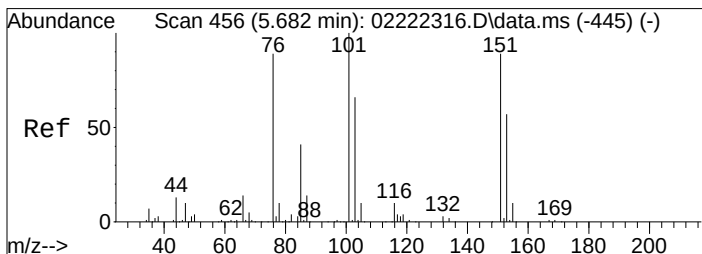
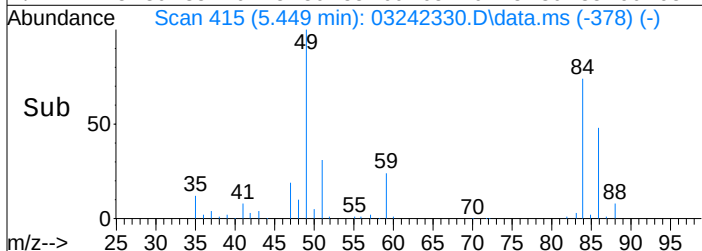
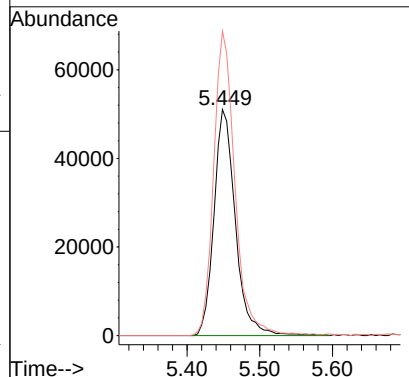
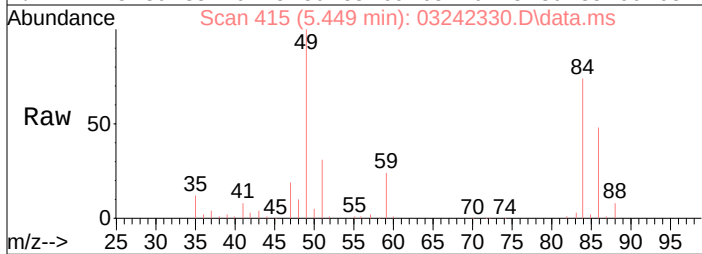
Tgt Ion:	45	Resp:	70241
Ion Ratio	Lower	Upper	
45	100		
43	18.2	0.0	39.7





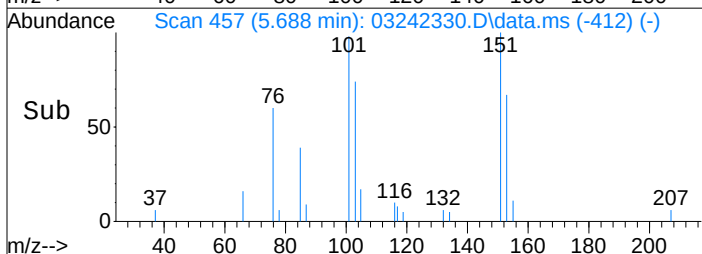
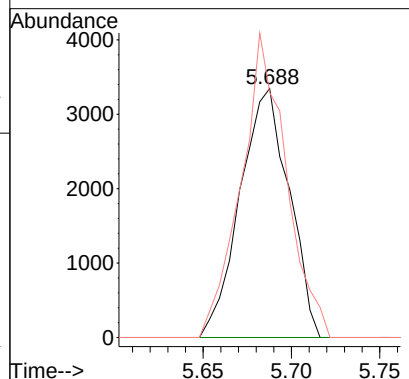
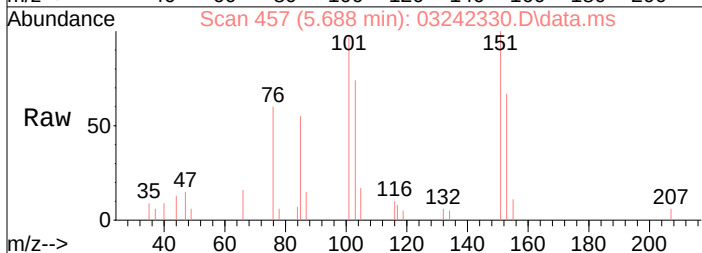
#19
Methylene Chloride
Concen: 4.78 ng
RT: 5.45 min Scan# 415
Delta R.T. -0.040 min
Lab File: 03242330.D
Acq: 25 Mar 2023 00:03

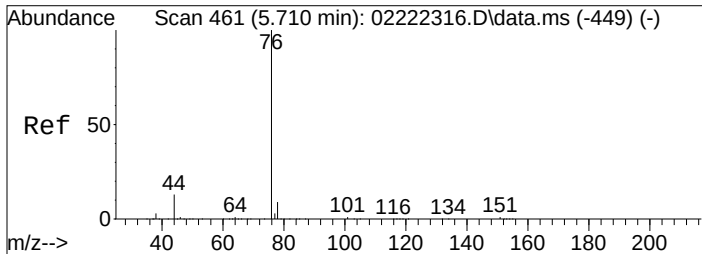
Tgt Ion	84	Resp	104708
Ion Ratio	84	100	
	49	133.7	101.3 151.3



#21
Trichlorotrifluoroethane
Concen: 0.30 ng
RT: 5.69 min Scan# 457
Delta R.T. 0.006 min
Lab File: 03242330.D
Acq: 25 Mar 2023 00:03

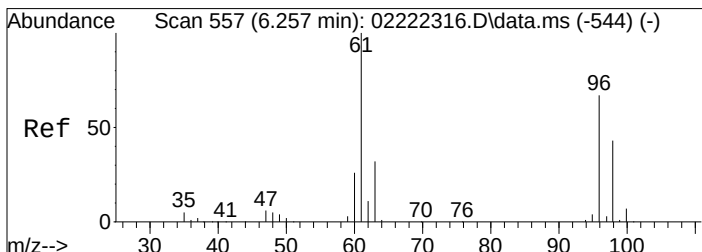
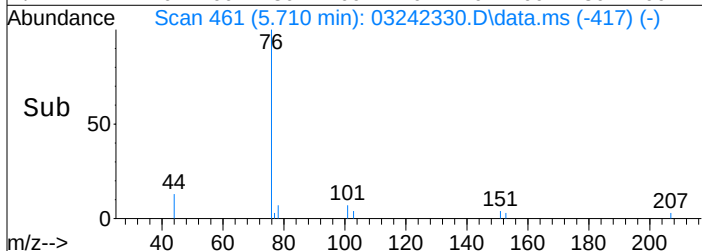
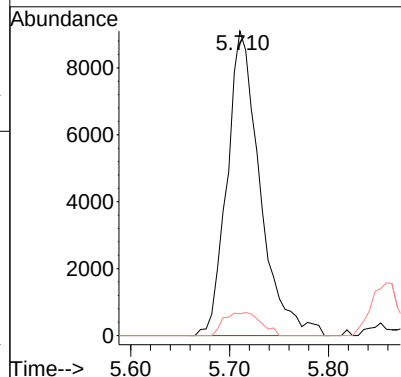
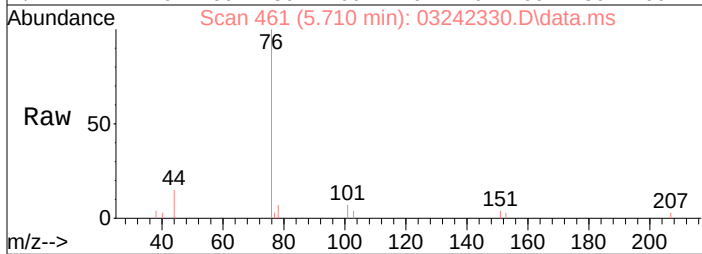
Tgt Ion	151	Resp	6463
Ion Ratio	151	100	
	101	112.6	96.3 136.3





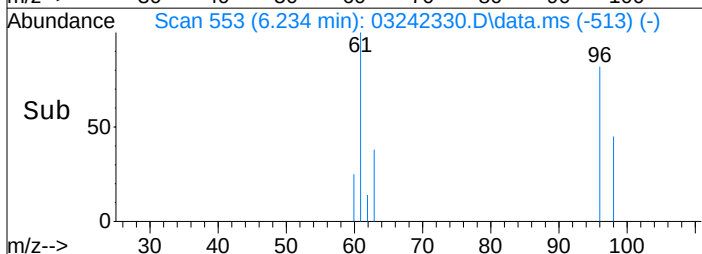
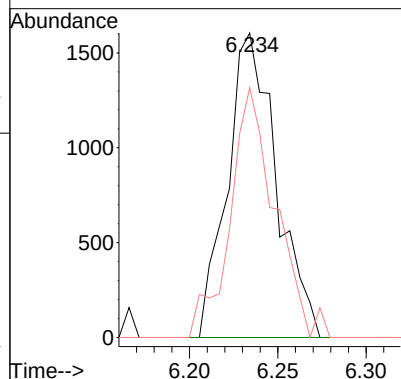
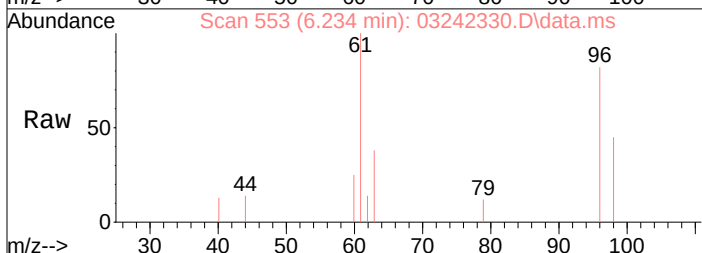
#22
Carbon Disulfide
Concen: 0.24 ng
RT: 5.71 min Scan# 461
Delta R.T. 0.000 min
Lab File: 03242330.D
Acq: 25 Mar 2023 00:03

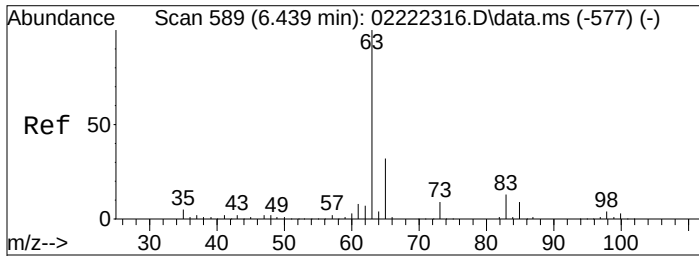
Tgt Ion: 76 Resp: 21041
Ion Ratio Lower Upper
76 100
78 8.5 0.0 29.3



#23
trans-1,2-Dichloroethene
Concen: 0.10 ng
RT: 6.23 min Scan# 553
Delta R.T. -0.023 min
Lab File: 03242330.D
Acq: 25 Mar 2023 00:03

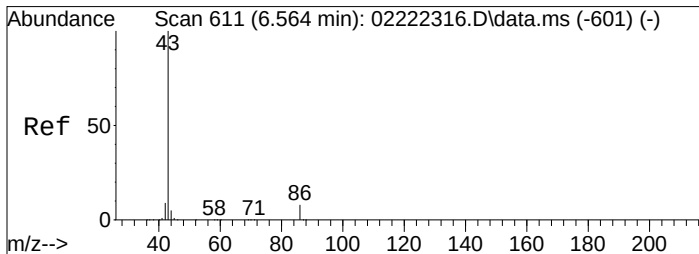
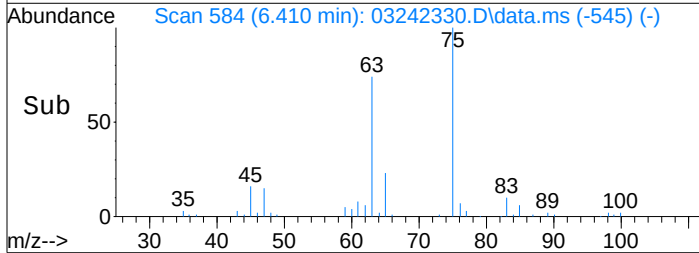
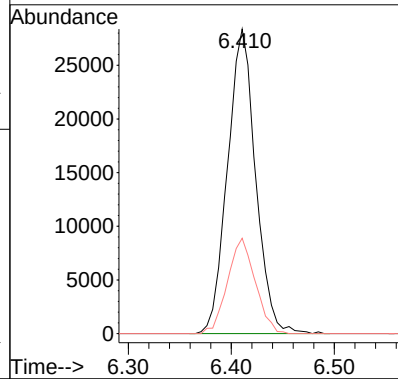
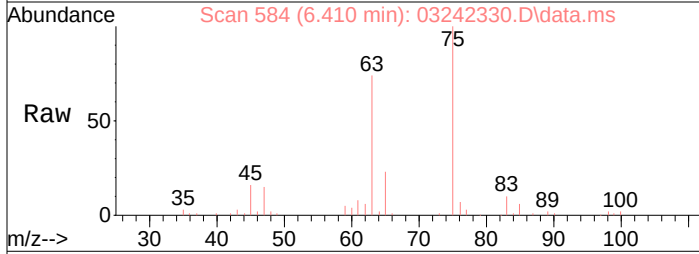
Tgt Ion: 61 Resp: 3085
Ion Ratio Lower Upper
61 100
96 76.0 47.7 87.7





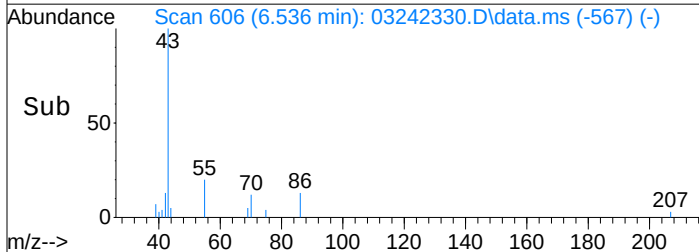
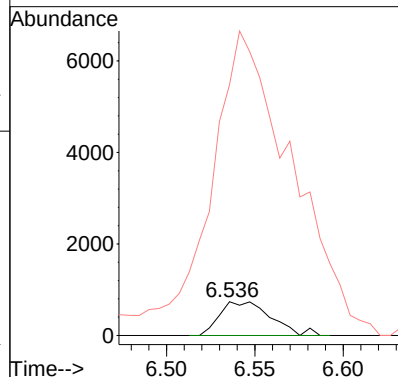
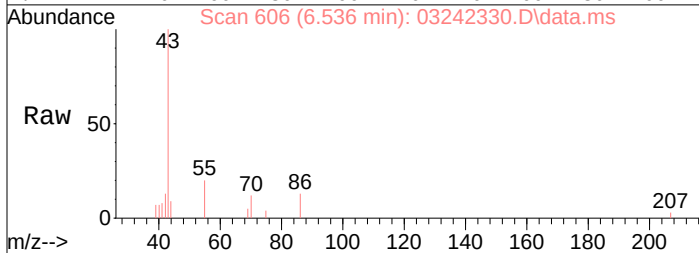
#24
1,1-Dichloroethane
Concen: 1.38 ng
RT: 6.41 min Scan# 584
Delta R.T. -0.028 min
Lab File: 03242330.D
Acq: 25 Mar 2023 00:03

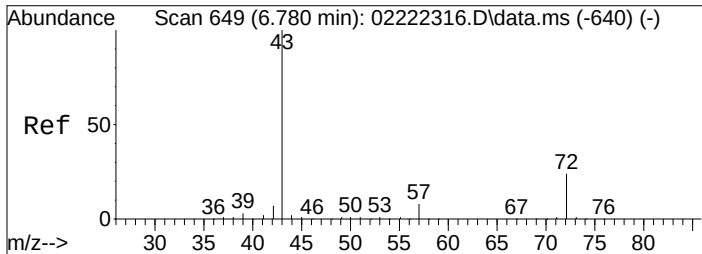
Tgt Ion: 63 Resp: 53762
Ion Ratio Lower Upper
63 100
65 30.9 12.0 52.0



#26
Vinyl Acetate
Concen: 0.37 ng
RT: 6.54 min Scan# 606
Delta R.T. -0.028 min
Lab File: 03242330.D
Acq: 25 Mar 2023 00:03

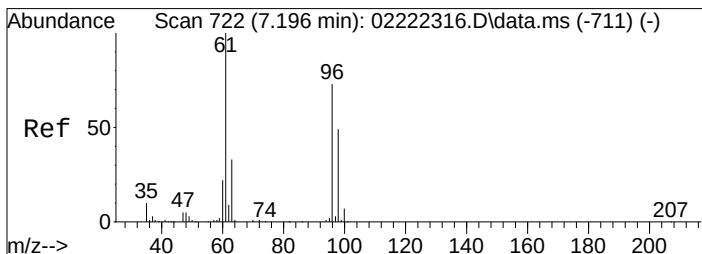
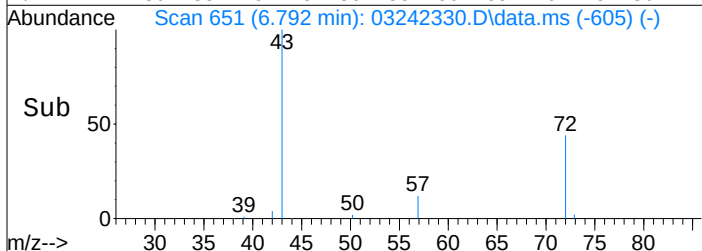
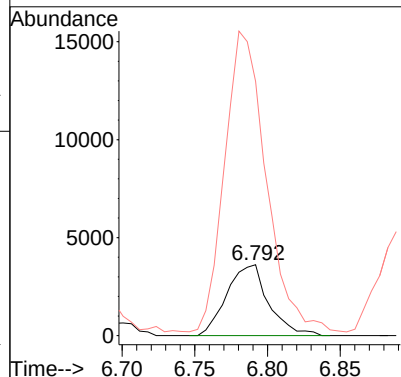
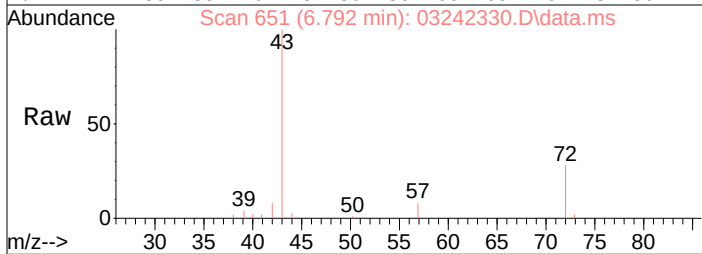
Tgt Ion: 86 Resp: 1491
Ion Ratio Lower Upper
86 100
43 1474.2 1292.1 1332.1#





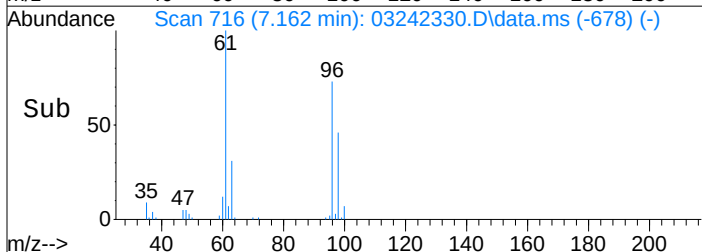
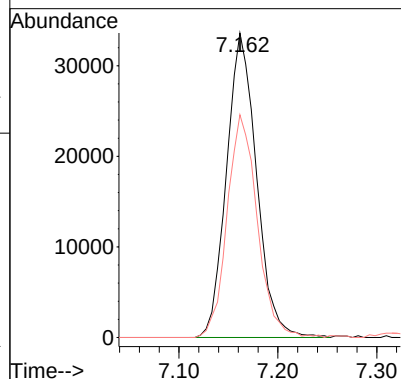
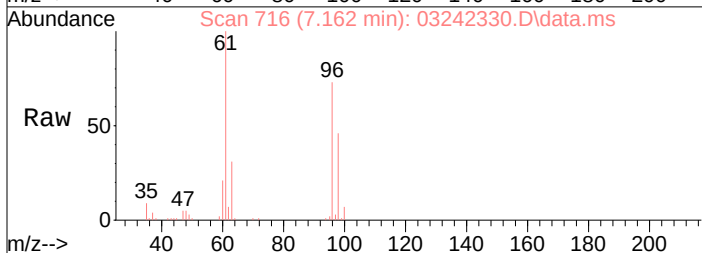
#27
2-Butanone (MEK)
Concen: 0.54 ng
RT: 6.79 min Scan# 651
Delta R.T. 0.011 min
Lab File: 03242330.D
Acq: 25 Mar 2023 00:03

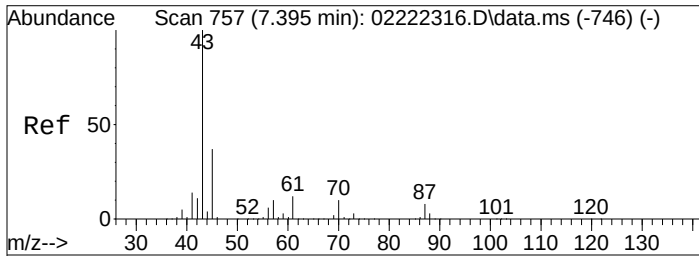
Tgt Ion: 72 Resp: 7220
Ion Ratio Lower Upper
72 100
43 420.6 400.5 440.5



#28
cis-1,2-Dichloroethene
Concen: 2.26 ng
RT: 7.16 min Scan# 716
Delta R.T. -0.034 min
Lab File: 03242330.D
Acq: 25 Mar 2023 00:03

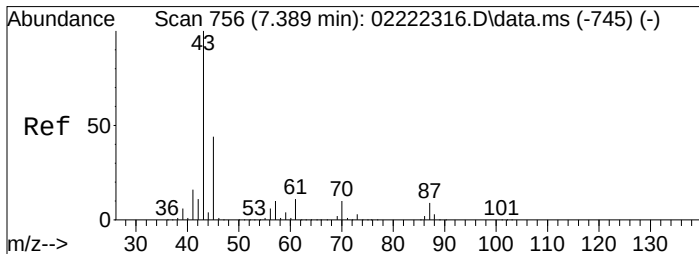
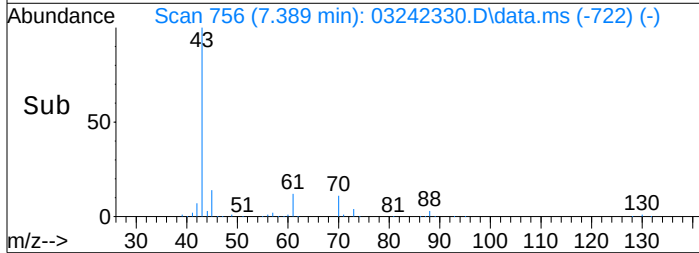
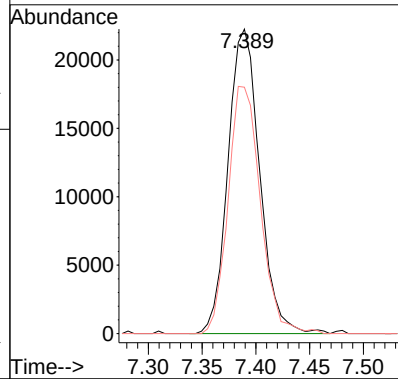
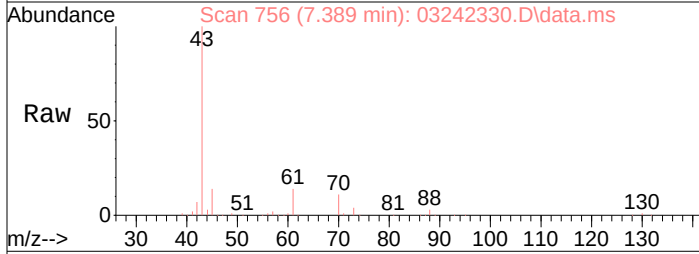
Tgt Ion: 61 Resp: 70989
Ion Ratio Lower Upper
61 100
96 73.3 54.5 94.5





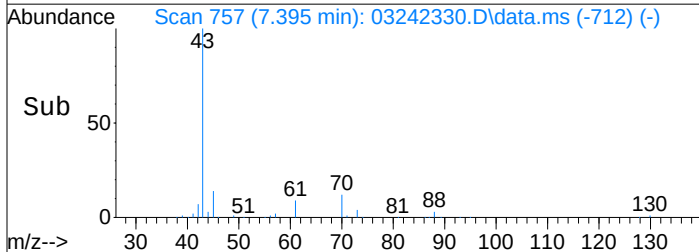
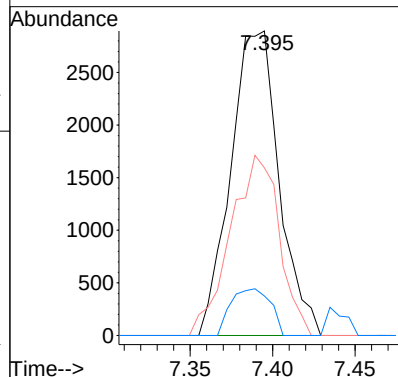
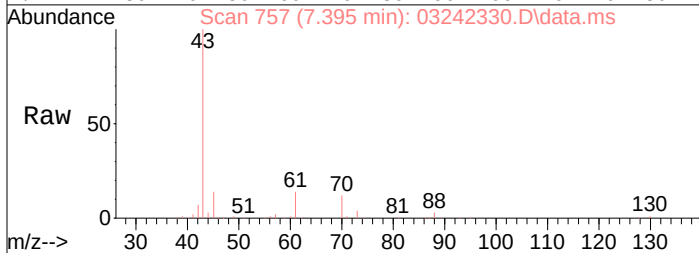
#30
Ethyl Acetate
Concen: 5.24 ng
RT: 7.39 min Scan# 756
Delta R.T. -0.006 min
Lab File: 03242330.D
Acq: 25 Mar 2023 00:03

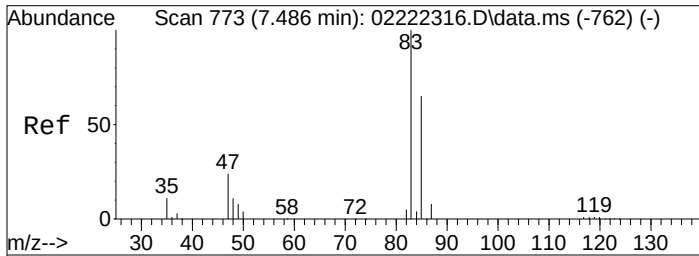
Tgt Ion: 61 Resp: 45666
Ion Ratio Lower Upper
61 100
70 82.5 65.6 105.6



#31
n-Hexane
Concen: 0.18 ng
RT: 7.39 min Scan# 757
Delta R.T. 0.006 min
Lab File: 03242330.D
Acq: 25 Mar 2023 00:03

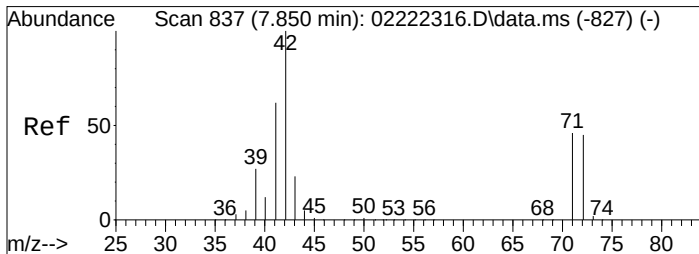
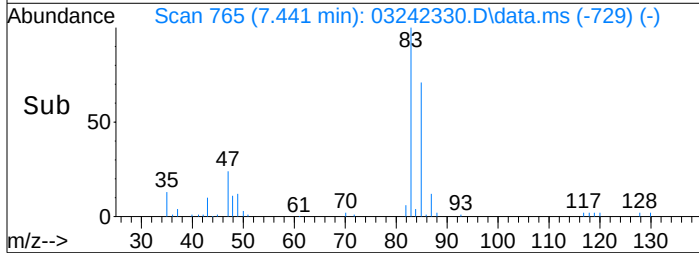
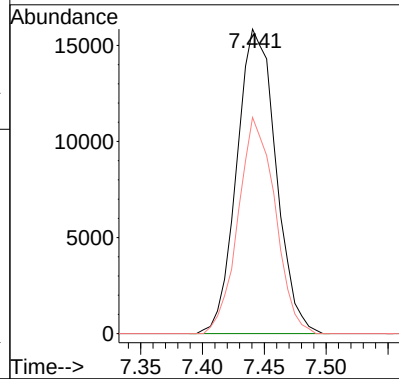
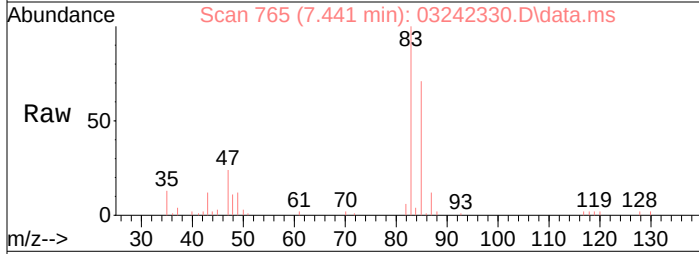
Tgt Ion: 57 Resp: 5908
Ion Ratio Lower Upper
57 100
56 59.6 44.0 66.0
86 12.5 11.5 17.3





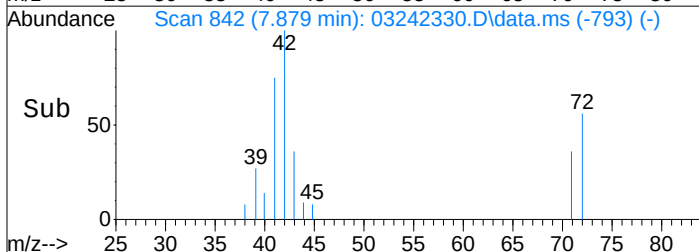
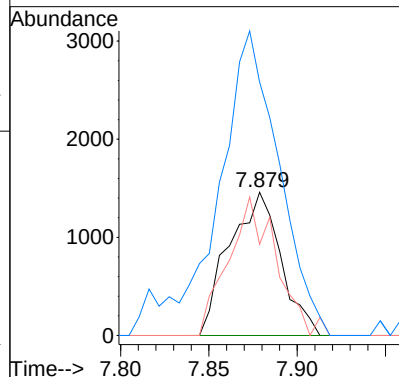
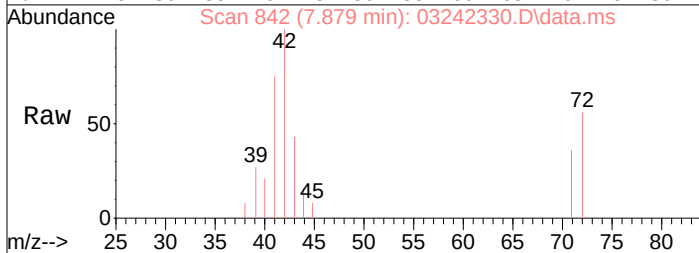
#32
Chloroform
Concen: 0.88 ng
RT: 7.44 min Scan# 765
Delta R.T. -0.045 min
Lab File: 03242330.D
Acq: 25 Mar 2023 00:03

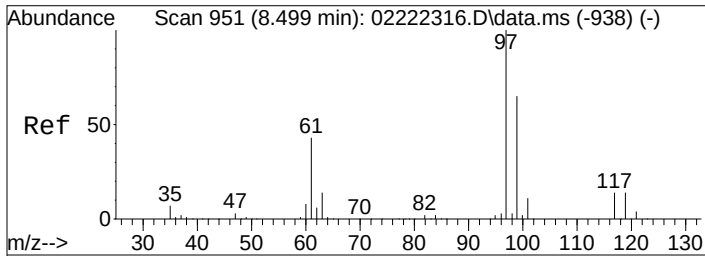
Tgt Ion: 83 Resp: 34947
Ion Ratio Lower Upper
83 100
85 66.9 45.0 85.0



#34
Tetrahydrofuran (THF)
Concen: 0.22 ng
RT: 7.88 min Scan# 842
Delta R.T. 0.029 min
Lab File: 03242330.D
Acq: 25 Mar 2023 00:03

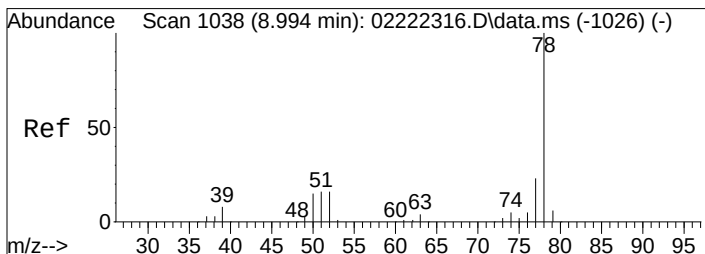
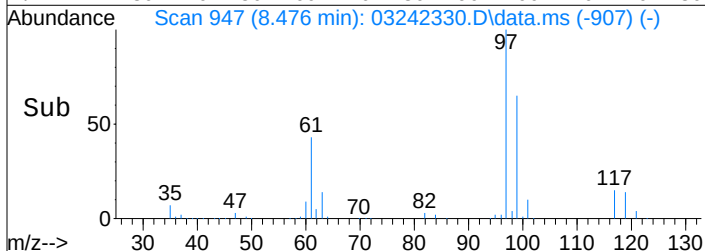
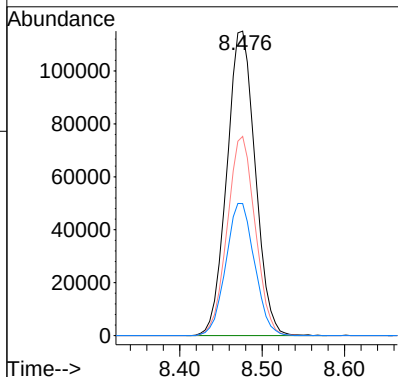
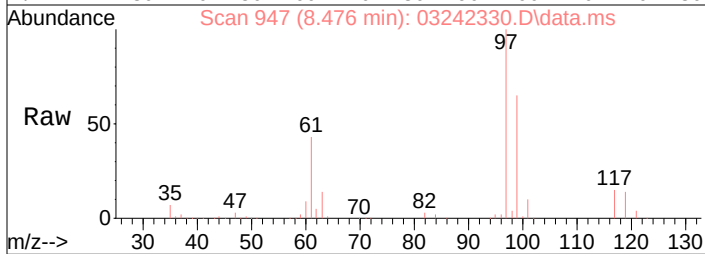
Tgt Ion: 72 Resp: 2956
Ion Ratio Lower Upper
72 100
71 90.2 79.8 119.8
42 236.7 199.0 239.0





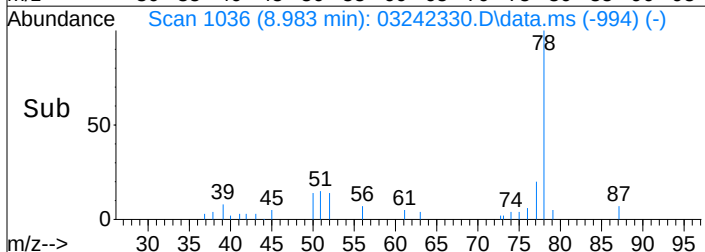
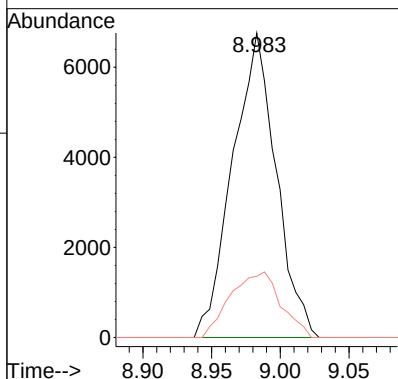
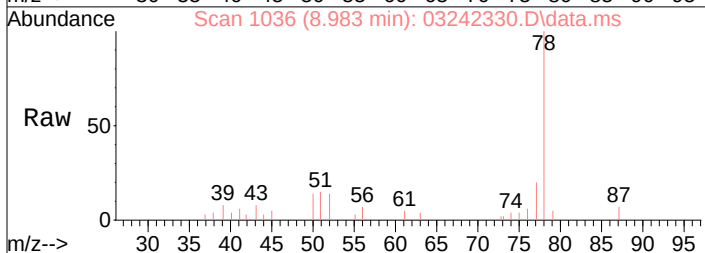
#38
 1,1,1-Trichloroethane
 Concen: 7.61 ng
 RT: 8.48 min Scan# 947
 Delta R.T. -0.023 min
 Lab File: 03242330.D
 Acq: 25 Mar 2023 00:03

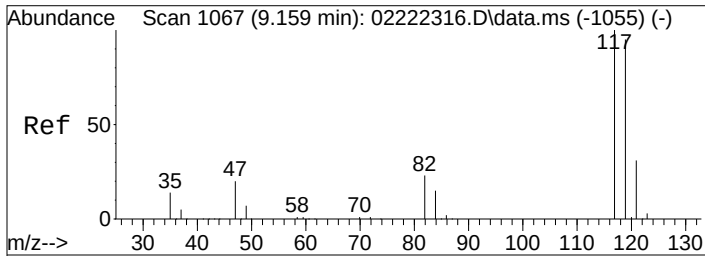
Tgt Ion:	97	Resp:	275259
Ion Ratio		Lower	Upper
97	100		
99	64.3	44.9	84.9
61	43.9	23.5	63.5



#41
 Benzene
 Concen: 0.18 ng
 RT: 8.98 min Scan# 1036
 Delta R.T. -0.011 min
 Lab File: 03242330.D
 Acq: 25 Mar 2023 00:03

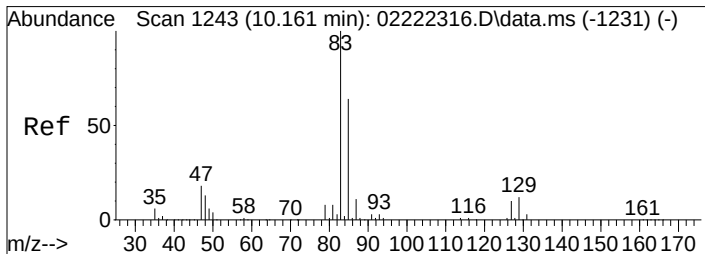
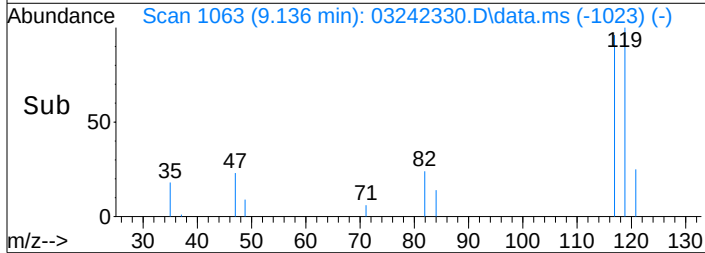
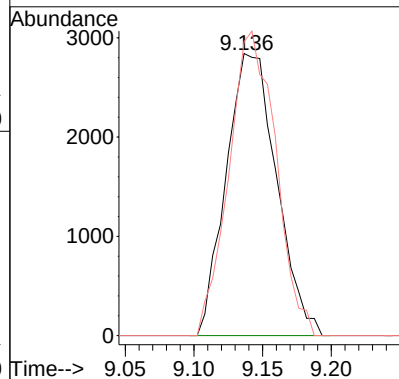
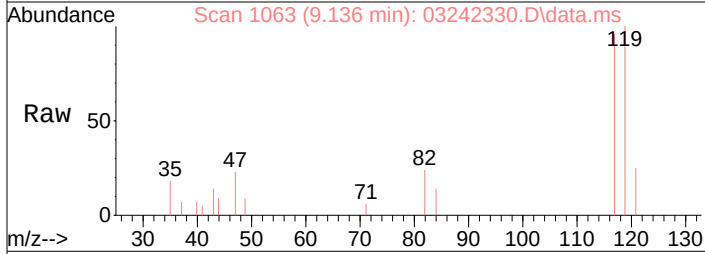
Tgt Ion:	78	Resp:	14880
Ion Ratio		Lower	Upper
78	100		
77	24.9	3.7	43.7





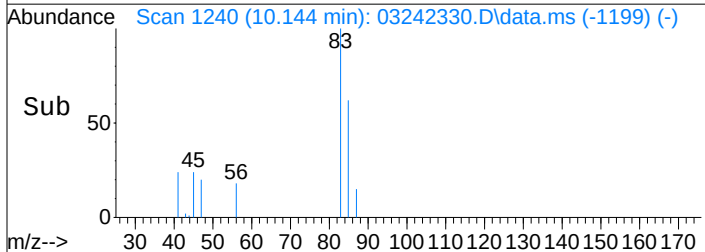
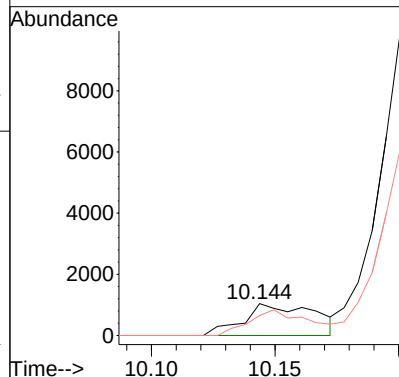
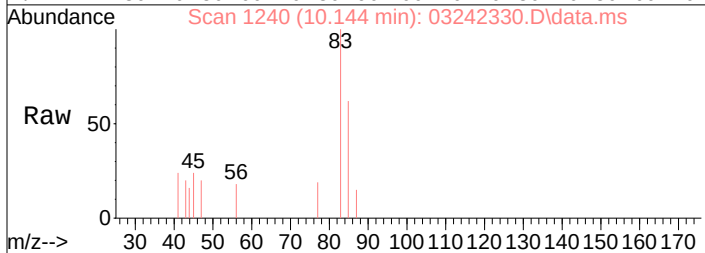
#42
Carbon Tetrachloride
Concen: 0.23 ng
RT: 9.14 min Scan# 1063
Delta R.T. -0.023 min
Lab File: 03242330.D
Acq: 25 Mar 2023 00:03

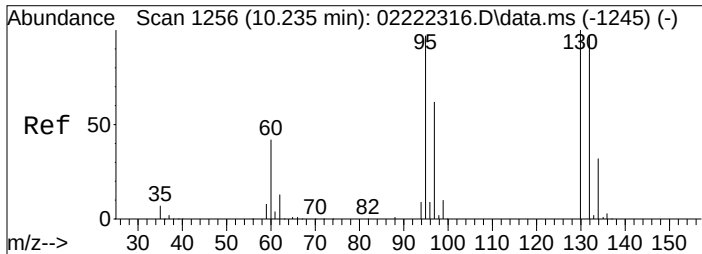
Tgt Ion: 117 Resp: 7265
Ion Ratio Lower Upper
117 100
119 100.3 75.7 115.7



#46
Bromodichloromethane
Concen: 0.07 ng
RT: 10.14 min Scan# 1240
Delta R.T. -0.017 min
Lab File: 03242330.D
Acq: 25 Mar 2023 00:03

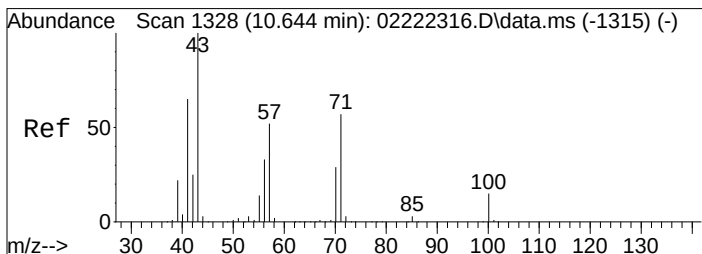
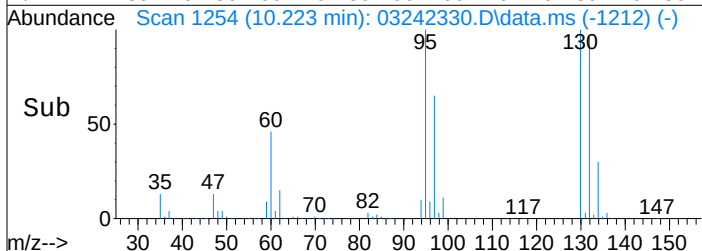
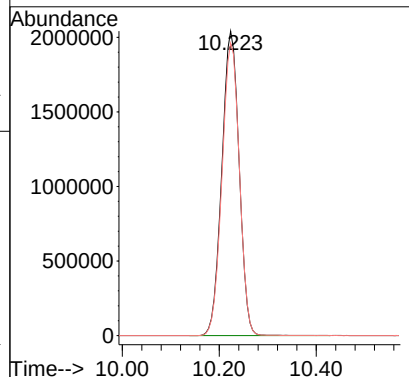
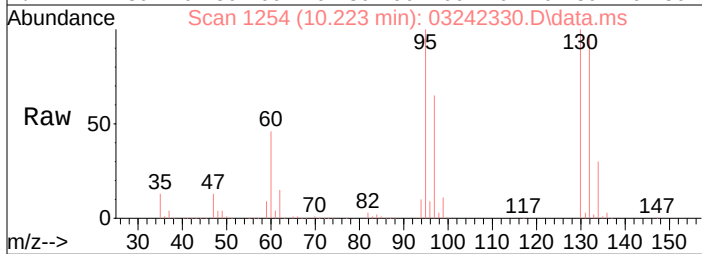
Tgt Ion: 83 Resp: 2073
Ion Ratio Lower Upper
83 100
85 66.6 44.0 84.0





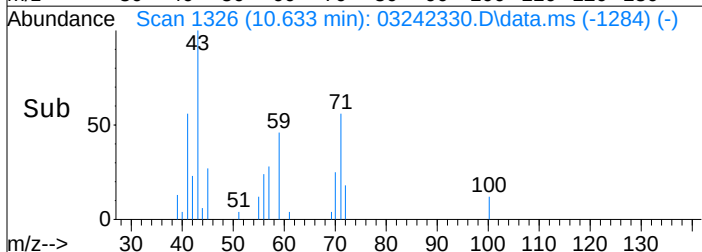
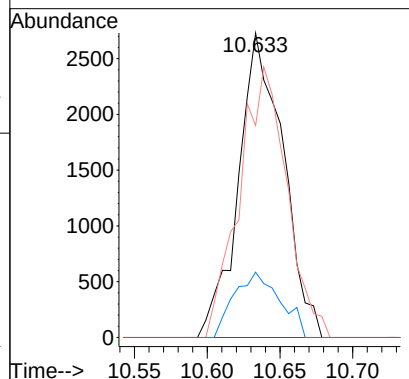
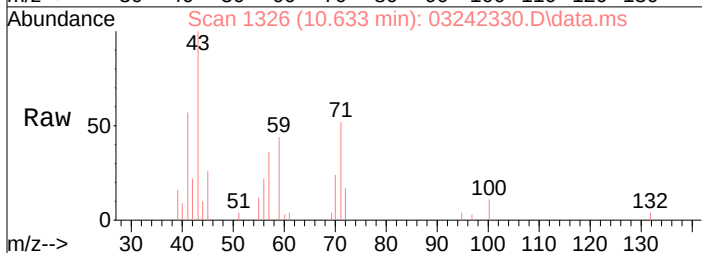
#47
 Trichloroethene
 Concen: 202.96 ng
 RT: 10.22 min Scan# 1254
 Delta R.T. -0.011 min
 Lab File: 03242330.D
 Acq: 25 Mar 2023 00:03

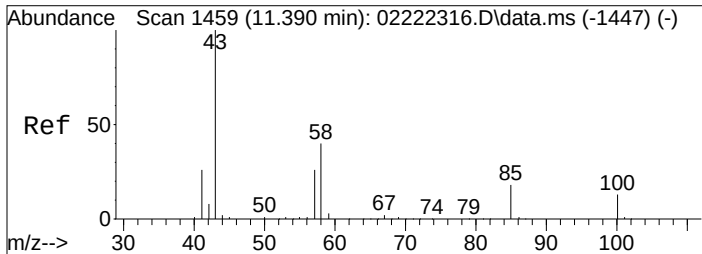
Tgt Ion:	130	Resp:	5051578
Ion Ratio	Lower	Upper	
130	100		
132	96.8	76.3	116.3



#51
 n-Heptane
 Concen: 0.28 ng
 RT: 10.63 min Scan# 1326
 Delta R.T. -0.011 min
 Lab File: 03242330.D
 Acq: 25 Mar 2023 00:03

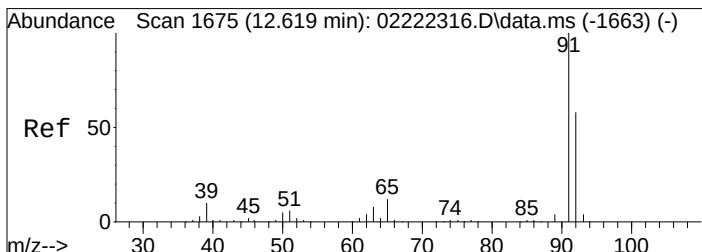
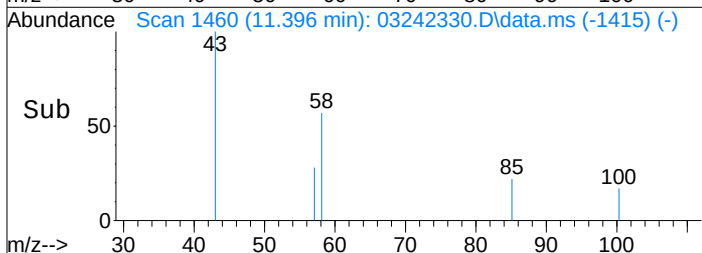
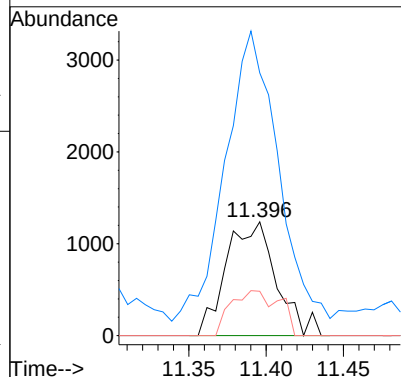
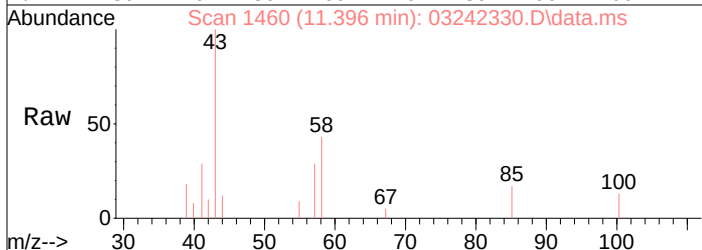
Tgt Ion:	71	Resp:	5834
Ion Ratio	Lower	Upper	
71	100		
57	94.3	71.7	111.7
100	22.0	5.8	45.8





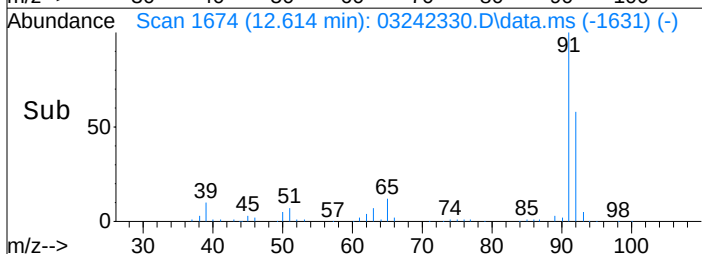
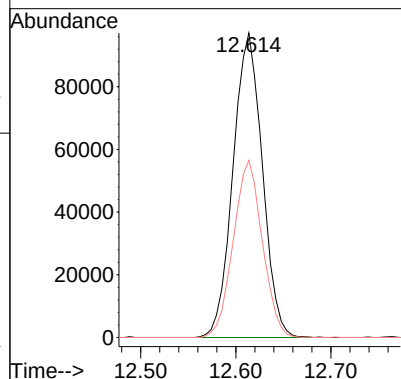
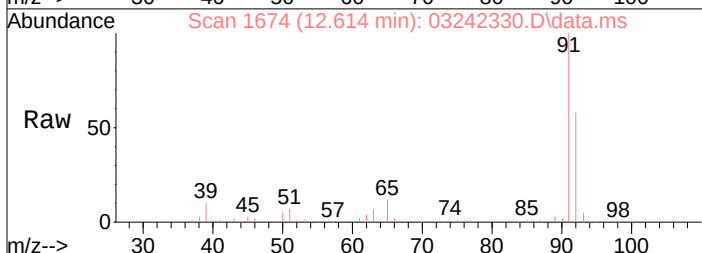
#53
 4-Methyl-2-pentanone
 Concen: 0.15 ng
 RT: 11.40 min Scan# 1460
 Delta R.T. 0.006 min
 Lab File: 03242330.D
 Acq: 25 Mar 2023 00:03

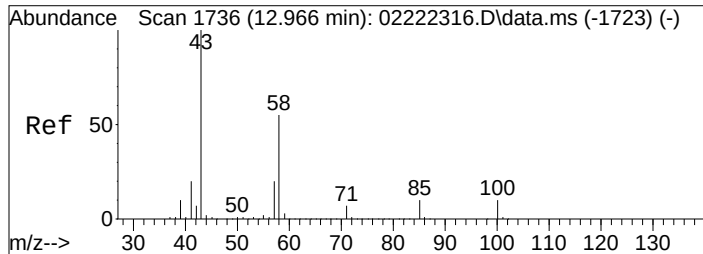
Tgt Ion:	58	Resp:	2798
Ion Ratio		Lower	Upper
58	100		
85	38.2	38.6	58.0#
43	272.6	202.2	303.2



#58
 Toluene
 Concen: 2.04 ng
 RT: 12.61 min Scan# 1674
 Delta R.T. -0.006 min
 Lab File: 03242330.D
 Acq: 25 Mar 2023 00:03

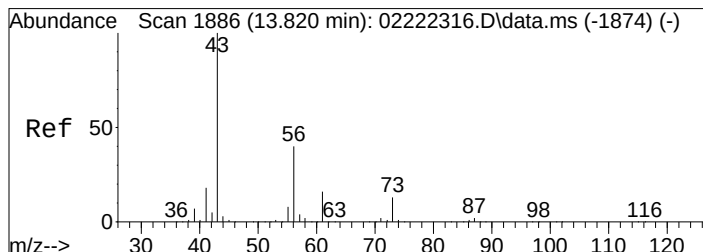
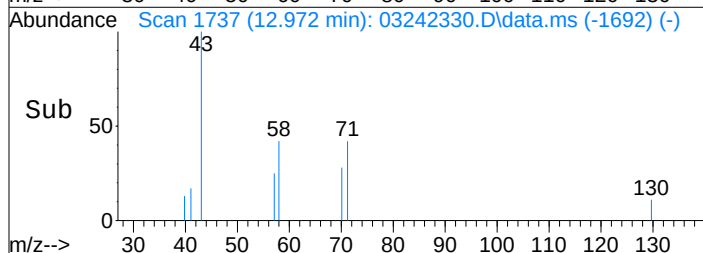
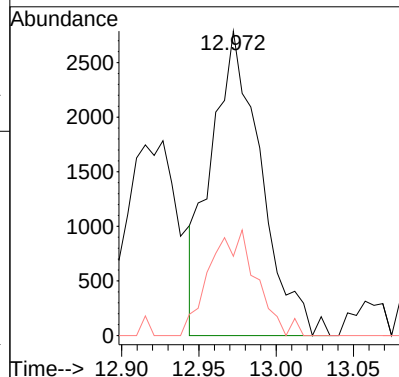
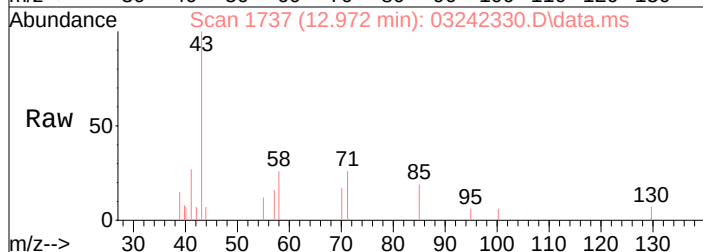
Tgt Ion:	91	Resp:	208004
Ion Ratio		Lower	Upper
91	100		
92	57.6	38.0	78.0





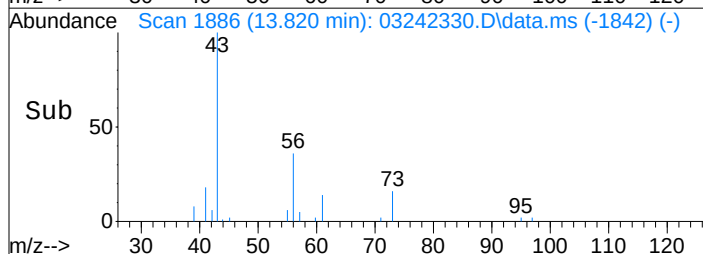
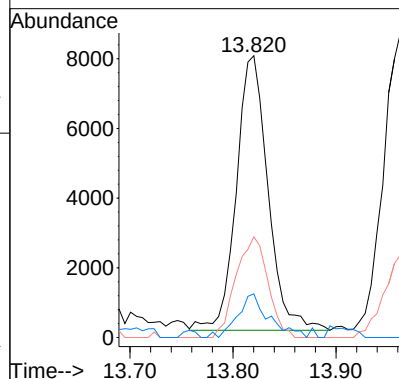
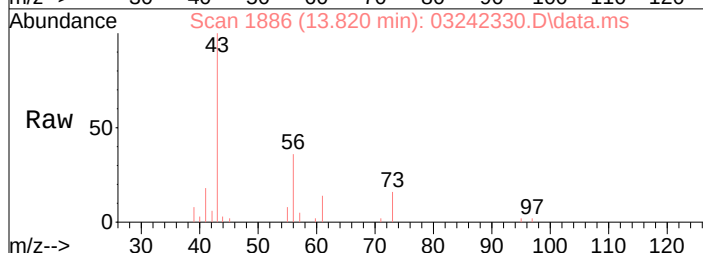
#59
2-Hexanone
Concen: 0.13 ng
RT: 12.97 min Scan# 1737
Delta R.T. 0.006 min
Lab File: 03242330.D
Acq: 25 Mar 2023 00:03

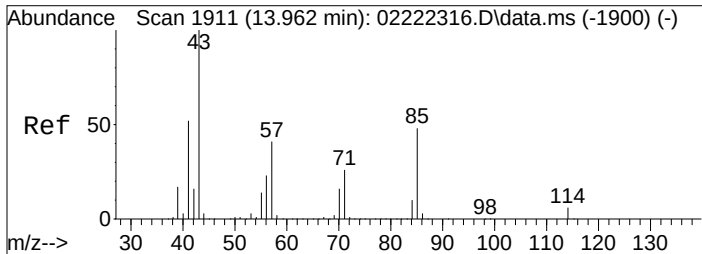
Tgt Ion: 43 Resp: 6260
Ion Ratio Lower Upper
43 100
58 32.7 34.5 74.5#



#62
n-Butyl Acetate
Concen: 0.30 ng
RT: 13.82 min Scan# 1886
Delta R.T. 0.000 min
Lab File: 03242330.D
Acq: 25 Mar 2023 00:03

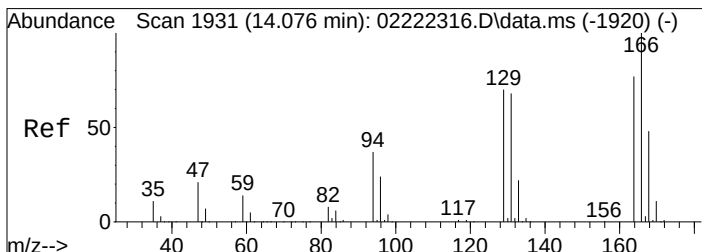
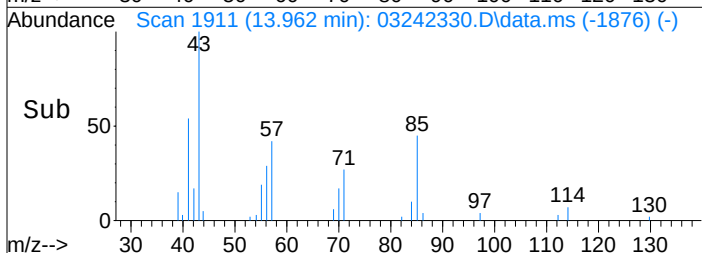
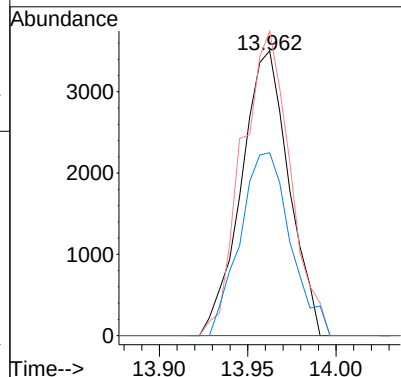
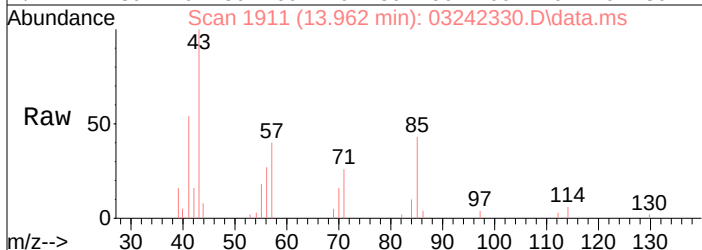
Tgt Ion: 43 Resp: 16864
Ion Ratio Lower Upper
43 100
56 36.8 20.0 60.0
73 15.6 0.0 33.2





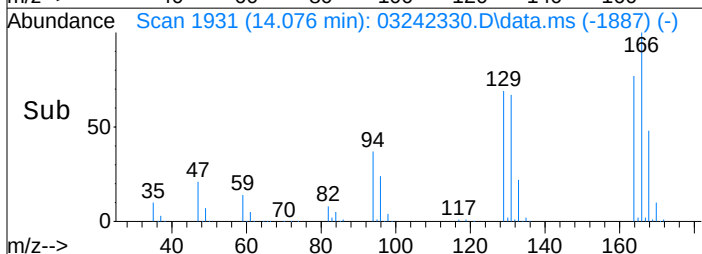
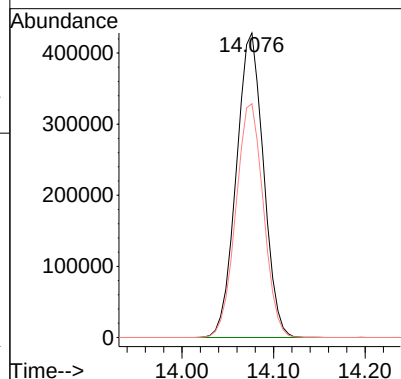
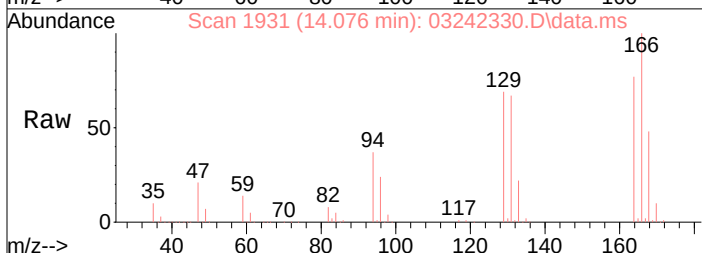
#63
n-Octane
Concen: 0.33 ng
RT: 13.96 min Scan# 1911
Delta R.T. 0.000 min
Lab File: 03242330.D
Acq: 25 Mar 2023 00:03

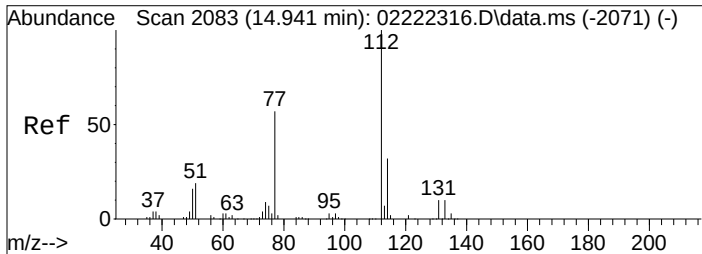
Tgt Ion: 57 Resp: 6566
Ion Ratio Lower Upper
57 100
85 108.4 94.1 141.1
71 68.1 52.6 79.0



#64
Tetrachloroethene
Concen: 28.55 ng
RT: 14.08 min Scan# 1931
Delta R.T. 0.000 min
Lab File: 03242330.D
Acq: 25 Mar 2023 00:03

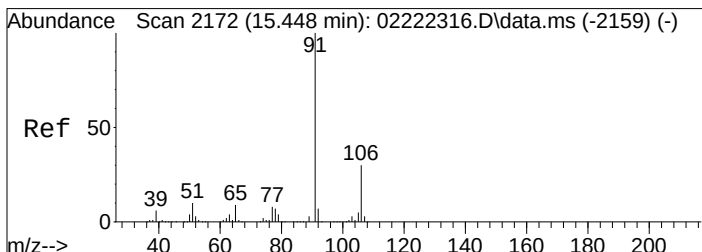
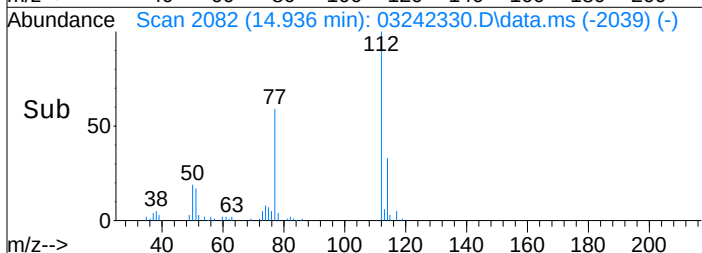
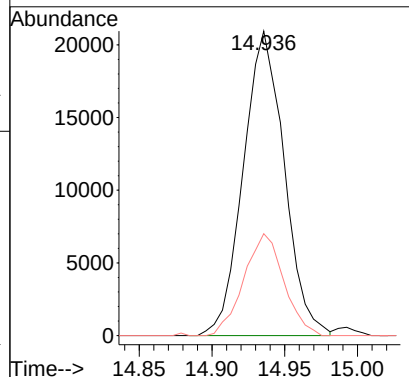
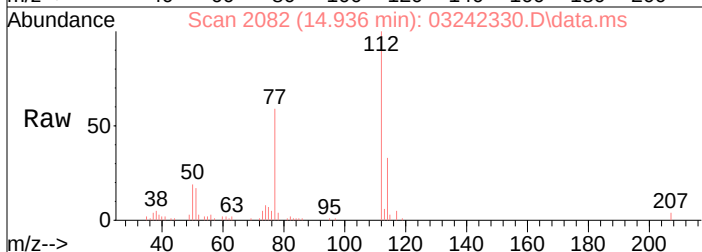
Tgt Ion: 166 Resp: 885150
Ion Ratio Lower Upper
166 100
164 77.8 57.3 97.3





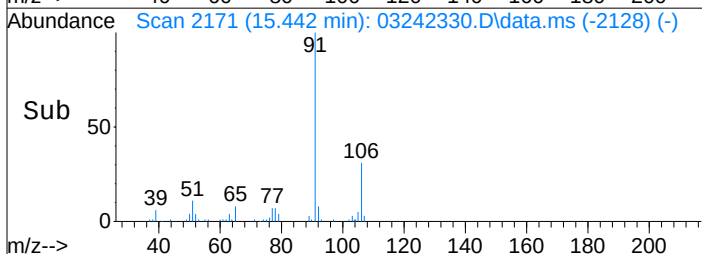
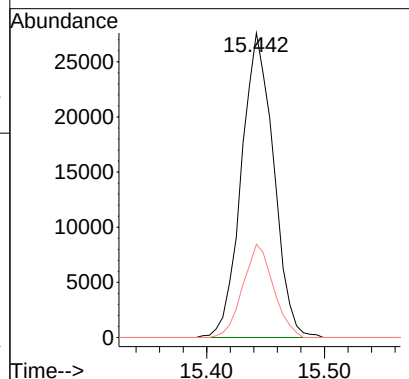
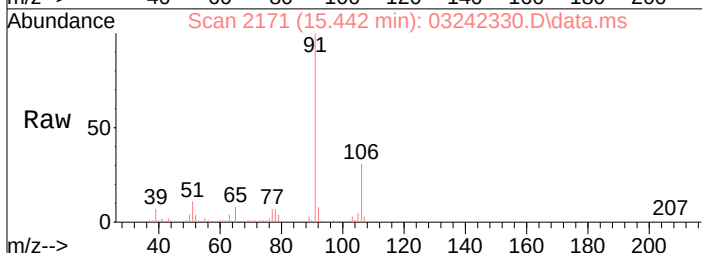
#65
Chlorobenzene
Concen: 0.61 ng
RT: 14.94 min Scan# 2082
Delta R.T. -0.006 min
Lab File: 03242330.D
Acq: 25 Mar 2023 00:03

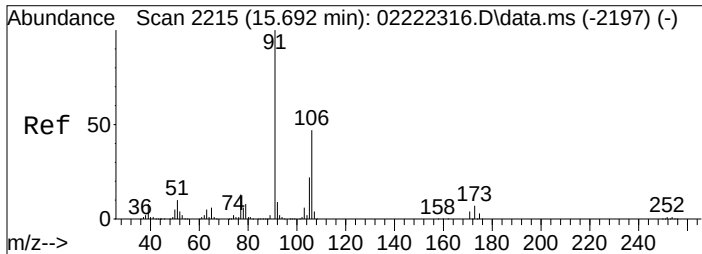
Tgt Ion: 112 Resp: 41004
Ion Ratio Lower Upper
112 100
114 32.7 12.1 52.1



#66
Ethylbenzene
Concen: 0.43 ng
RT: 15.44 min Scan# 2171
Delta R.T. -0.006 min
Lab File: 03242330.D
Acq: 25 Mar 2023 00:03

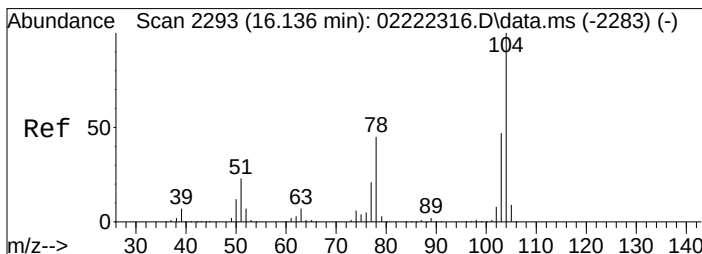
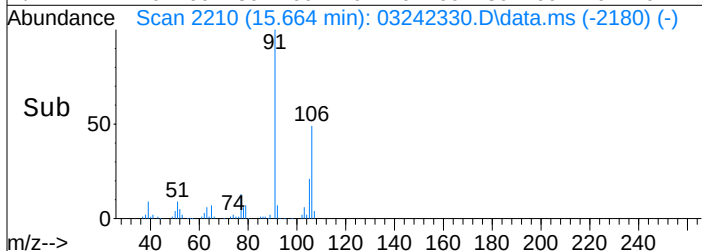
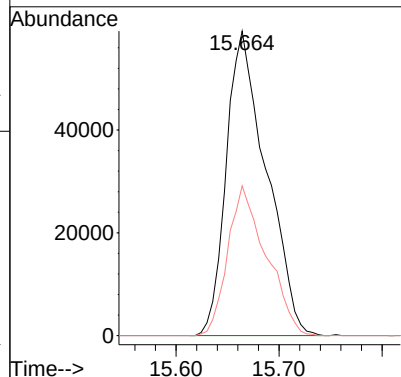
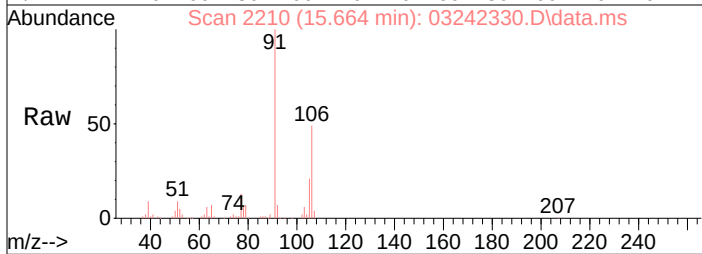
Tgt Ion: 91 Resp: 52483
Ion Ratio Lower Upper
91 100
106 29.2 10.4 50.4





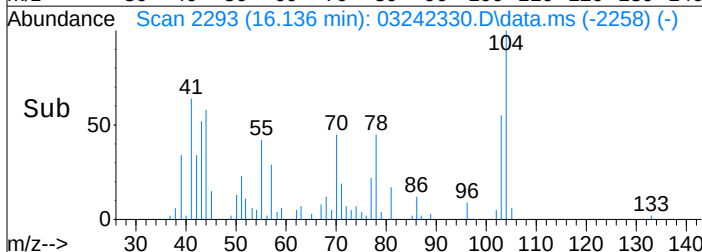
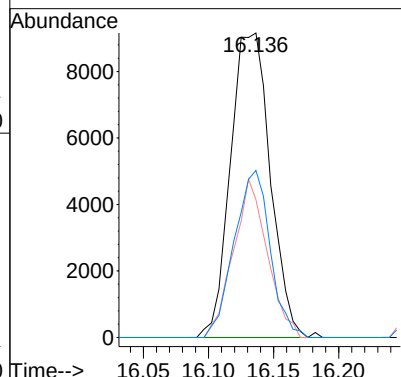
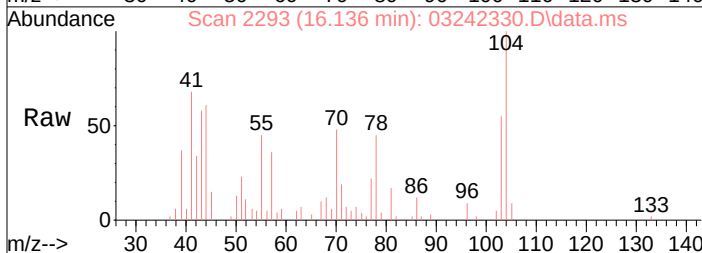
#67
m- & p-Xylenes
Concen: 1.63 ng
RT: 15.66 min Scan# 2210
Delta R.T. -0.028 min
Lab File: 03242330.D
Acq: 25 Mar 2023 00:03

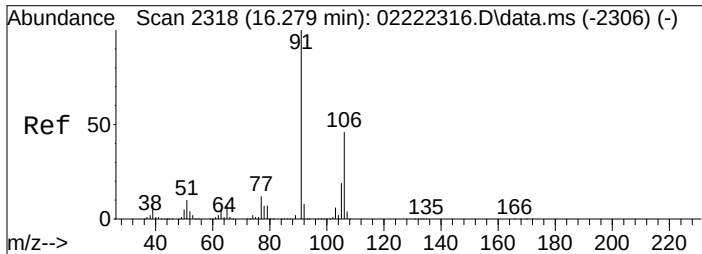
Tgt Ion: 91 Resp: 159639
Ion Ratio Lower Upper
91 100
106 47.4 26.2 66.2



#69
Styrene
Concen: 0.29 ng
RT: 16.14 min Scan# 2293
Delta R.T. 0.000 min
Lab File: 03242330.D
Acq: 25 Mar 2023 00:03

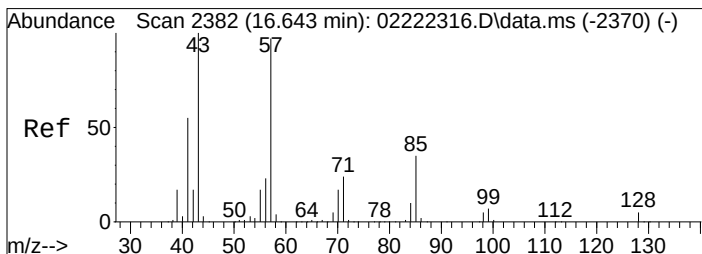
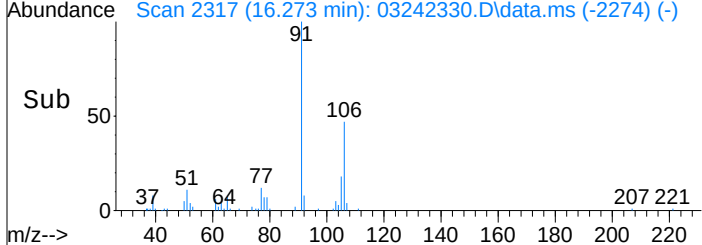
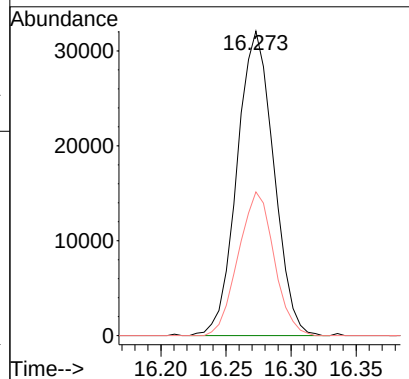
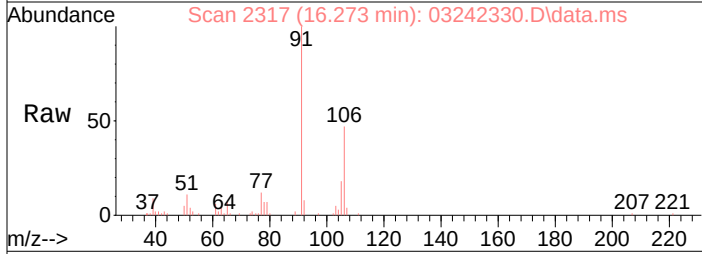
Tgt Ion: 104 Resp: 19484
Ion Ratio Lower Upper
104 100
78 44.3 24.7 64.7
103 49.5 27.8 67.8





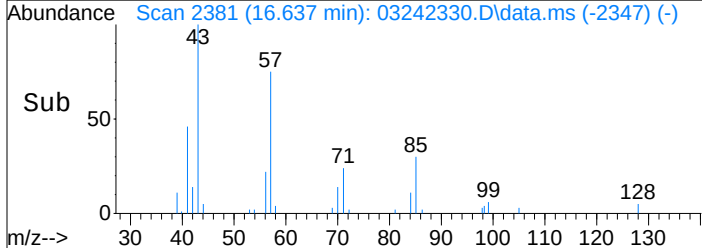
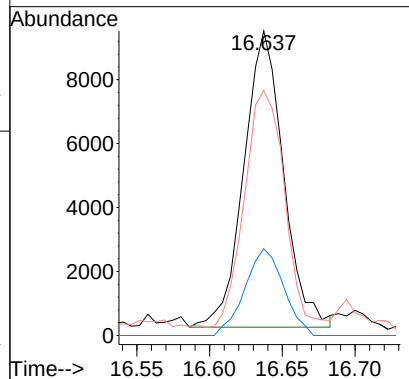
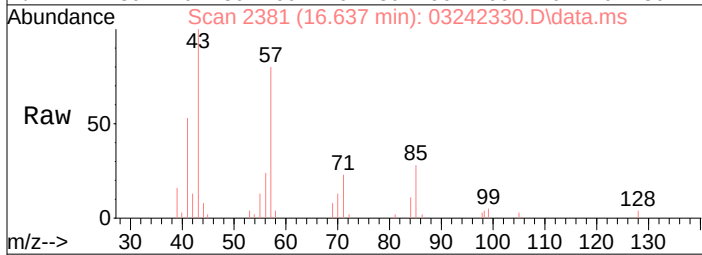
#70
o-Xylene
Concen: 0.67 ng
RT: 16.27 min Scan# 2317
Delta R.T. -0.006 min
Lab File: 03242330.D
Acq: 25 Mar 2023 00:03

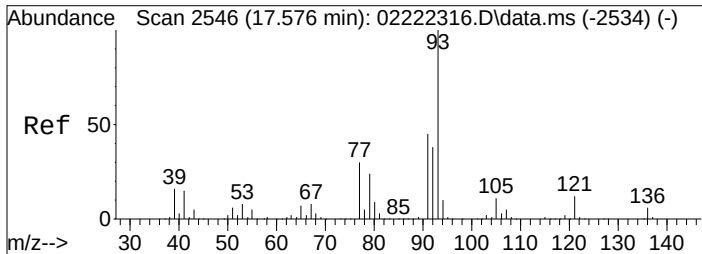
Tgt Ion: 91 Resp: 62874
Ion Ratio Lower Upper
91 100
106 46.0 25.4 65.4



#71
n-Nonane
Concen: 0.39 ng
RT: 16.64 min Scan# 2381
Delta R.T. -0.006 min
Lab File: 03242330.D
Acq: 25 Mar 2023 00:03

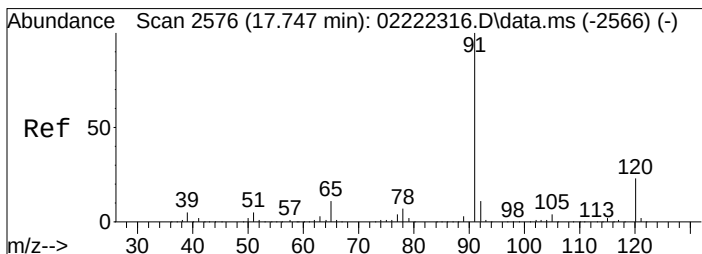
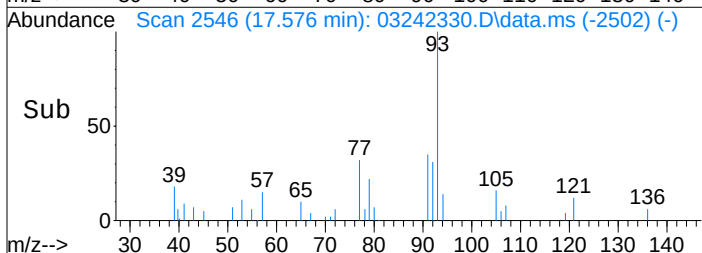
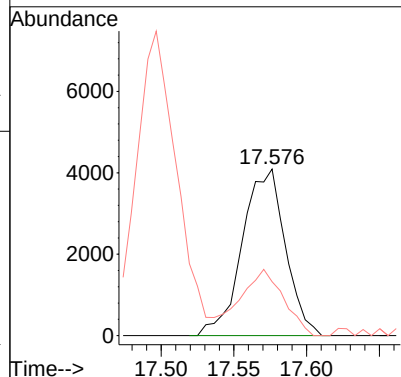
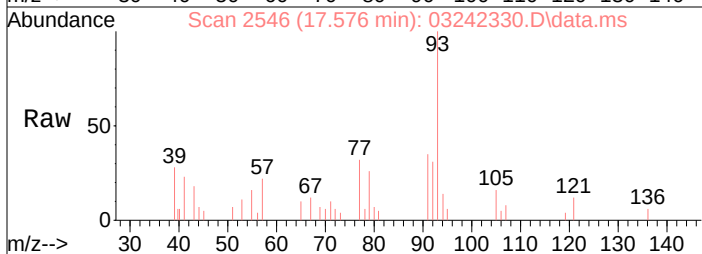
Tgt Ion: 43 Resp: 17566
Ion Ratio Lower Upper
43 100
57 81.5 74.2 114.2
85 28.6 14.2 54.2





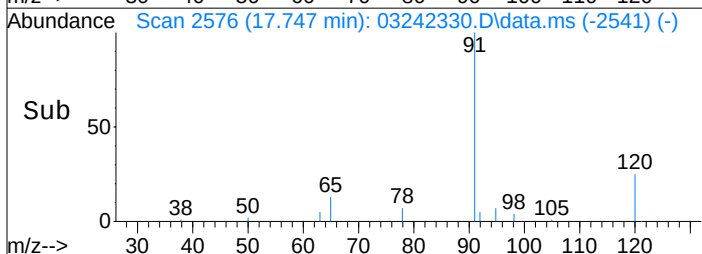
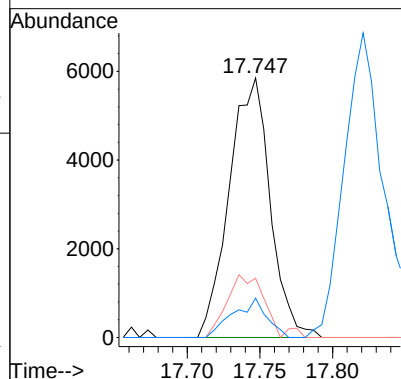
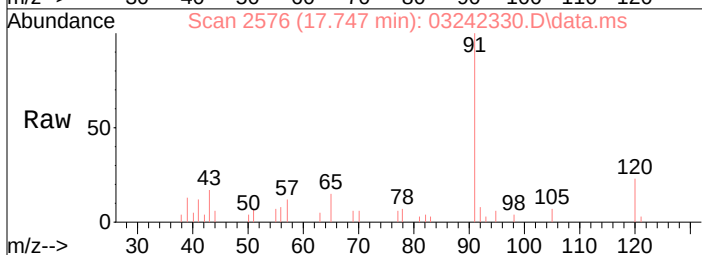
#75
 alpha-Pinene
 Concen: 0.16 ng
 RT: 17.58 min Scan# 2546
 Delta R.T. 0.000 min
 Lab File: 03242330.D
 Acq: 25 Mar 2023 00:03

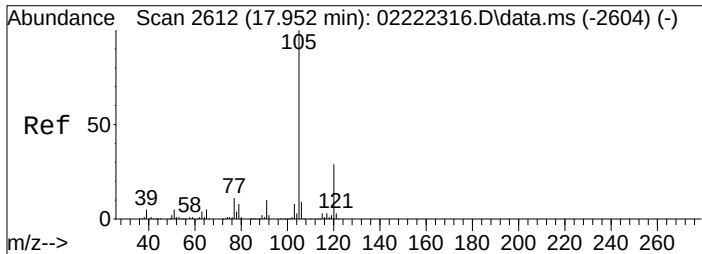
Tgt Ion: 93 Resp: 8408
 Ion Ratio Lower Upper
 93 100
 77 40.4 11.1 51.1



#76
 n-Propylbenzene
 Concen: 0.08 ng
 RT: 17.75 min Scan# 2576
 Delta R.T. 0.000 min
 Lab File: 03242330.D
 Acq: 25 Mar 2023 00:03

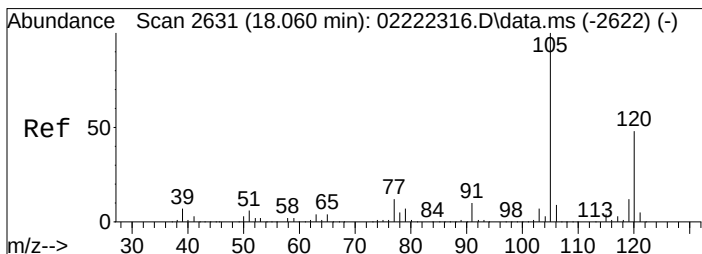
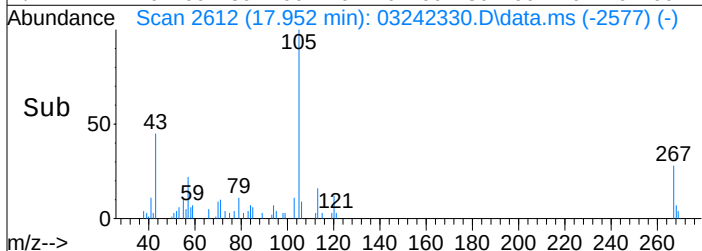
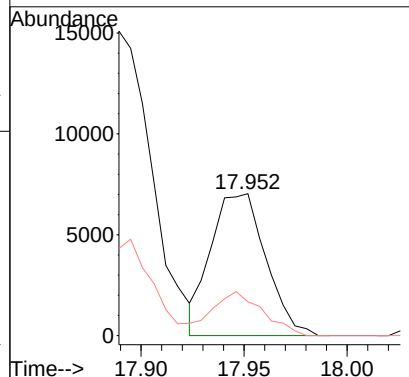
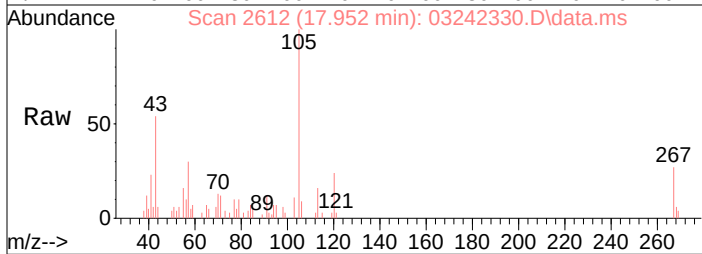
Tgt Ion: 91 Resp: 11455
 Ion Ratio Lower Upper
 91 100
 120 22.5 2.7 42.7
 65 12.4 0.0 30.7





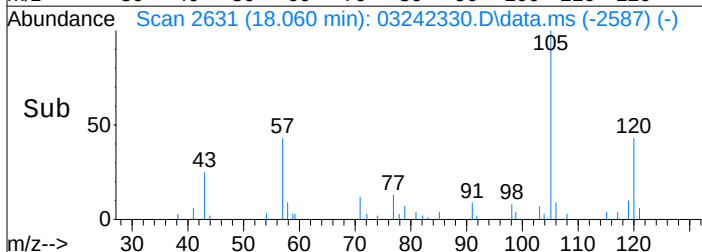
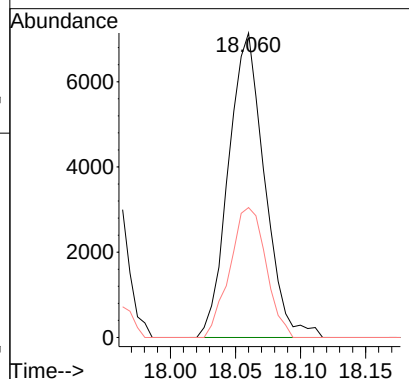
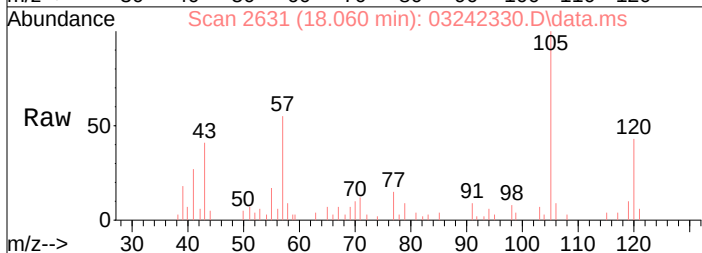
#78
 4-Ethyltoluene
 Concen: 0.12 ng
 RT: 17.95 min Scan# 2612
 Delta R.T. 0.000 min
 Lab File: 03242330.D
 Acq: 25 Mar 2023 00:03

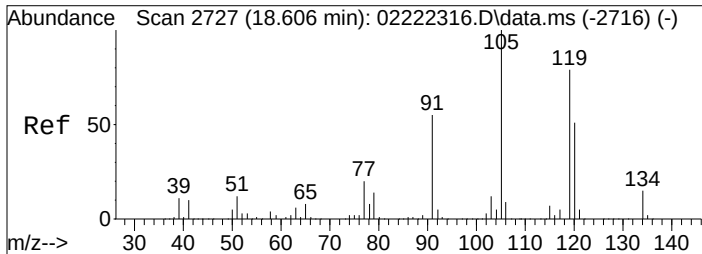
Tgt Ion:	105	Resp:	13061
Ion Ratio		Lower	Upper
105	100		
120	28.2	9.1	49.1



#79
 1,3,5-Trimethylbenzene
 Concen: 0.14 ng
 RT: 18.06 min Scan# 2631
 Delta R.T. 0.000 min
 Lab File: 03242330.D
 Acq: 25 Mar 2023 00:03

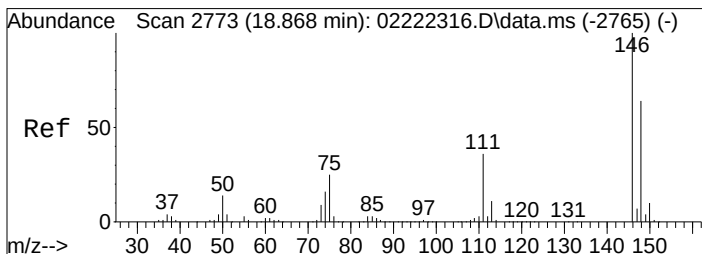
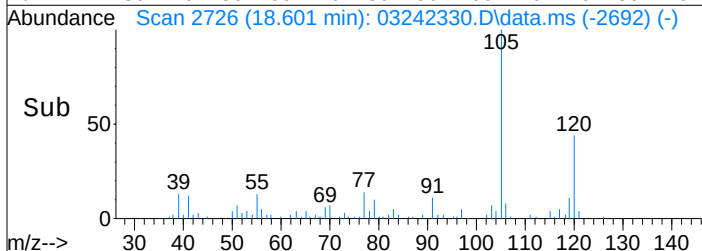
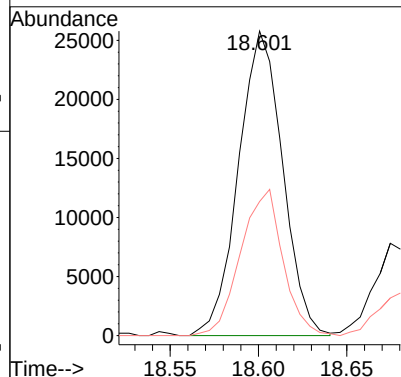
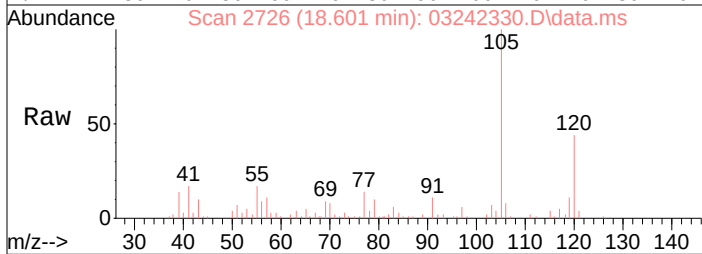
Tgt Ion:	105	Resp:	13756
Ion Ratio		Lower	Upper
105	100		
120	42.7	28.4	68.4





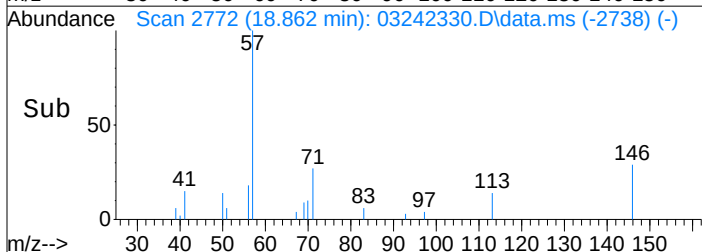
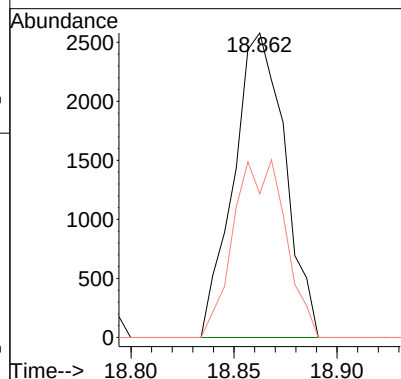
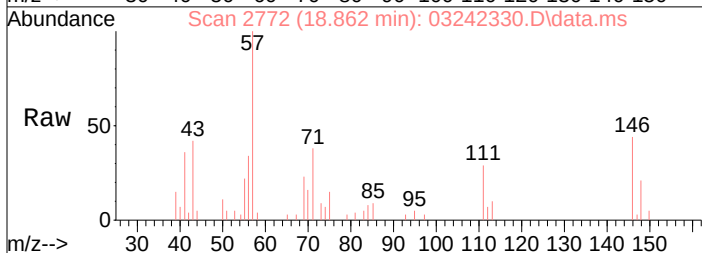
#82
 1,2,4-Trimethylbenzene
 Concen: 0.47 ng
 RT: 18.60 min Scan# 2726
 Delta R.T. -0.006 min
 Lab File: 03242330.D
 Acq: 25 Mar 2023 00:03

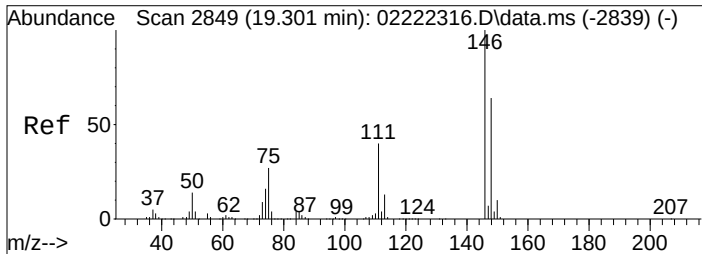
Tgt Ion:105 Resp: 44838
 Ion Ratio Lower Upper
 105 100
 120 45.9 32.8 72.8



#86
 1,4-Dichlorobenzene
 Concen: 0.07 ng
 RT: 18.86 min Scan# 2772
 Delta R.T. -0.006 min
 Lab File: 03242330.D
 Acq: 25 Mar 2023 00:03

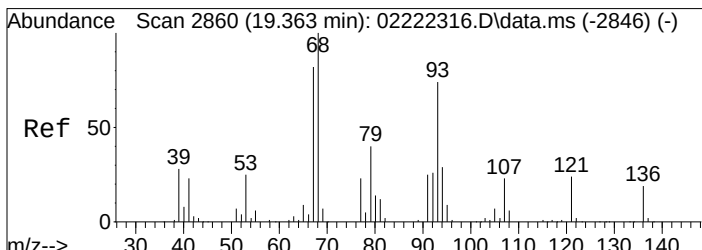
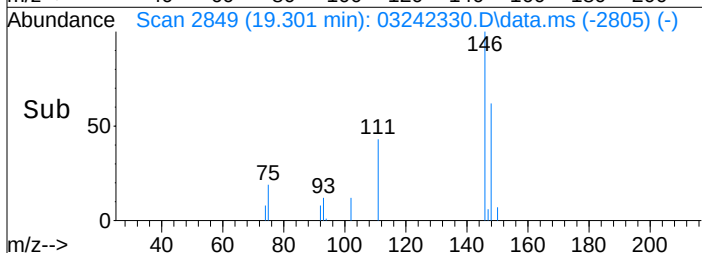
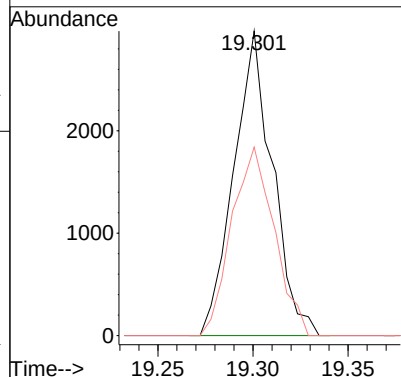
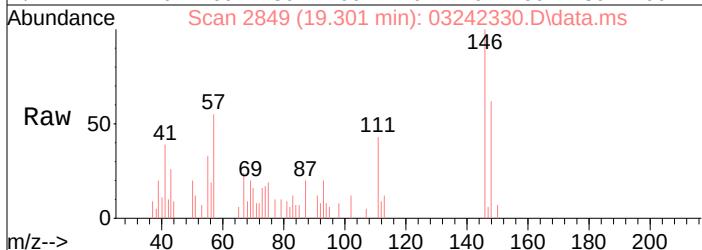
Tgt Ion:146 Resp: 4461
 Ion Ratio Lower Upper
 146 100
 148 59.1 44.7 84.7





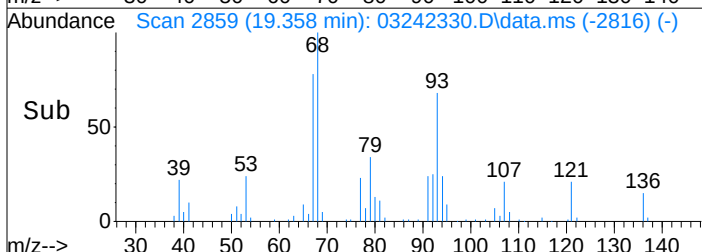
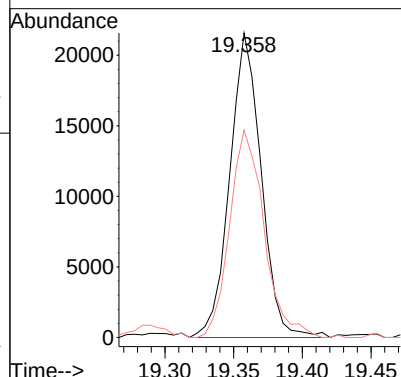
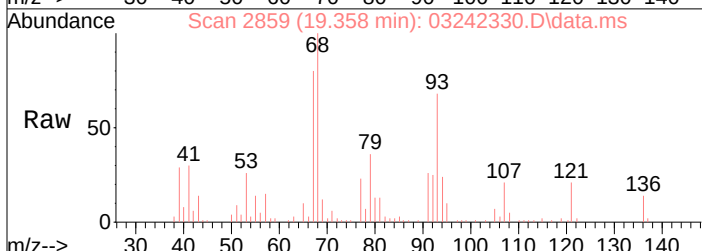
#90
 1,2-Dichlorobenzene
 Concen: 0.07 ng
 RT: 19.30 min Scan# 2849
 Delta R.T. 0.000 min
 Lab File: 03242330.D
 Acq: 25 Mar 2023 00:03

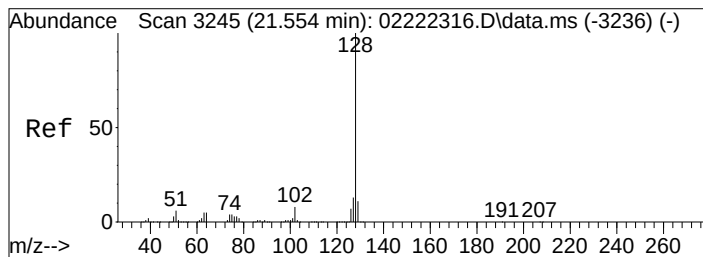
Tgt Ion	Ratio	Resp	Lower	Upper
146	100	4206		
148	68.1	44.4		84.4



#91
 d-Limonene
 Concen: 1.07 ng
 RT: 19.36 min Scan# 2859
 Delta R.T. -0.006 min
 Lab File: 03242330.D
 Acq: 25 Mar 2023 00:03

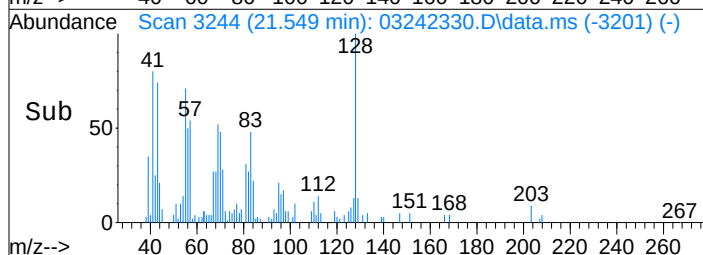
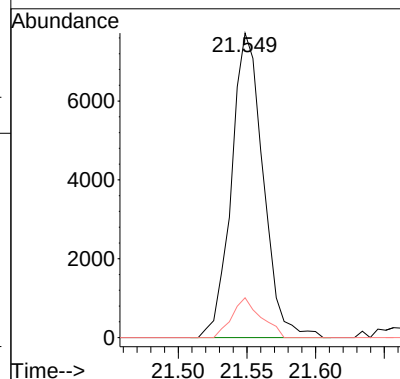
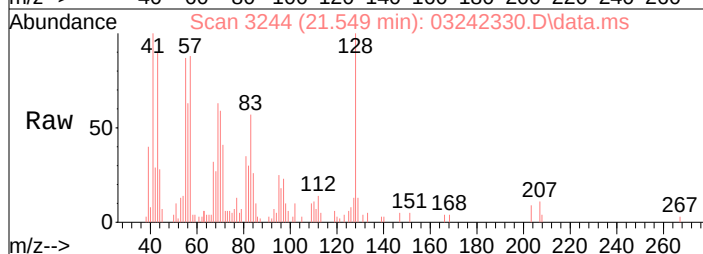
Tgt Ion	Ratio	Resp	Lower	Upper
68	100	34328		
93	74.6	54.8		94.8





#95
 Naphthalene
 Concen: 0.12 ng
 RT: 21.55 min Scan# 3244
 Delta R.T. -0.006 min
 Lab File: 03242330.D
 Acq: 25 Mar 2023 00:03

Tgt Ion:128 Resp: 12386
 Ion Ratio Lower Upper
 128 100
 129 11.9 0.0 30.9



Data File : I:\MS13\DATA\2023_03\24\03242330.D
 Acq On : 25 Mar 2023 00:03
 Sample : P2301250-025 (1000mL)
 Misc : S35-01202301

Vial: 14
 Operator: TZ
 Inst : MS13

TZ 3/28/23

Quant Time: Mar 28 10:13:23 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.32	130	247532	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	9.38	114	1092465	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	14.88	54	208197	12.500	ng	0.00

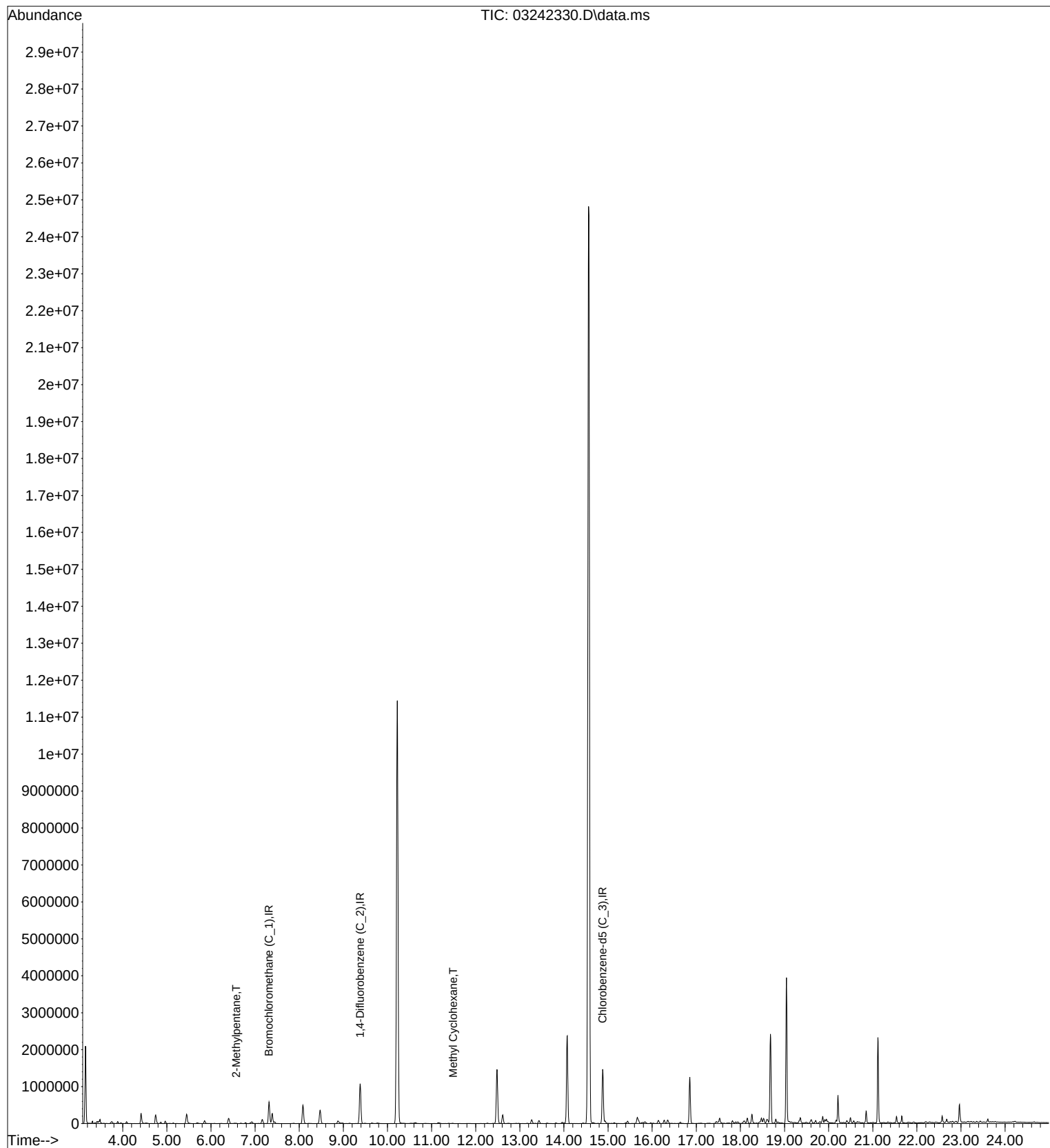
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.26	85	964	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	0.00	83	0	N.D.	d	
4) 1,1-Difluoroethane	3.37	65	153	N.D.		
5) Chlorodifluoromethane ...	0.00	67	0	N.D.	d	
6) 1-Chloro-1,1-Difluoroe...	3.62	65	2258	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	0.00	43	0	N.D.	d	
12) 2-Methylpentane	6.58	71	1749	0.101	ng	# 5
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	9.13	84	1273	N.D.		
17) 2,3-Dimethylpentane	9.60	56	968	N.D.		
18) Dibromomethane	9.88	174	500	N.D.		
20) Methyl Cyclohexane	11.49	55	3611	0.104	ng	# 83
21) 1,3-Dichloropropane	12.61	76	752	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	15.24	91	575	N.D.		
24) 1,2,3-Trichloropropane	0.00	75	0	N.D.	d	
25) Bromobenzene	17.16	77	133	N.D.		
26) 2-Chlorotoluene	17.66	91	189	N.D.		
27) 4-Chlorotoluene	0.00	91	0	N.D.	d	
28) Indane	19.39	117	5740	N.D.		
29) Indene	19.51	115	1521	N.D.		
30) 1,2,4,5-Tetramethylben...	20.70	119	7794	N.D.		
31) 1,2,3,4-Tetramethylben...	20.70	119	7794	N.D.		
32) 1,2,3,5-Tetramethylben...	0.00	119	0	N.D.	d	
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242330.D
Acq On : 25 Mar 2023 00:03
Sample : P2301250-025 (1000mL)
Misc : S35-01202301

Vial: 14
Operator: TZ
Inst : MS13

Quant Time: Mar 28 10:13:23 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242331.D
 Acq On : 25 Mar 2023 00:39
 Sample : P2301250-025dil (100mL)
 Misc : S35-01202301

Vial: 14
 Operator: TZ
 Inst : MS13

TZ 3/27/23

Quant Time: Mar 27 14:09:13 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.31	130	243013	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	9.37	114	1054001	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.88	54	194380	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.07	65	406962	12.619	ng	-0.04
Spiked Amount	12.500	Range	70 - 130	Recovery	=	100.96%
57) Toluene-d8 (SS2)	12.48	98	1194849	11.953	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	95.60%
73) Bromofluorobenzene (SS3)	16.85	174	428176	11.695	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.52%

Target Compounds

						Qvalue
2) Propene	3.43	42	791	N.D.		
3) Dichlorodifluoromethan...	3.49	85	6289	0.141 ng		97
4) Chloromethane	3.64	50	219	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	3.73	135	128	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	4.39	45	35237	2.042 ng		100
11) Acetonitrile	4.56	41	298	N.D.		
12) Acrolein	4.65	56	211	N.D.		
13) Acetone	4.74	58	9200	0.625 ng	#	86
14) Trichlorofluoromethane	4.87	101	2978	0.074 ng		84
15) 2-Propanol (Isopropanol)	4.95	45	13715	0.231 ng		94
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D. d		
19) Methylene Chloride	5.45	84	10152	0.470 ng		92
20) 3-Chloro-1-propene (Al...	5.51	41	174	N.D.		
21) Trichlorotrifluoroethane	5.68	151	565	N.D.		
22) Carbon Disulfide	5.73	76	6180	0.072 ng		93
23) trans-1,2-Dichloroethene	6.24	61	366	N.D.		
24) 1,1-Dichloroethane	6.40	63	5096	0.133 ng		98
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone (MEK)	6.76	72	260	N.D.		
28) cis-1,2-Dichloroethene	7.16	61	6914	0.223 ng		98
29) Diisopropyl Ether	7.43	87	193	N.D.		
30) Ethyl Acetate	7.37	61	4488	0.522 ng		90
31) n-Hexane	7.38	57	340	N.D.		
32) Chloroform	7.44	83	3436	0.088 ng		92
34) Tetrahydrofuran (THF)	7.87	72	452	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.07	62	250	N.D.		
38) 1,1,1-Trichloroethane	8.46	97	25891	0.742 ng		99
39) Isopropyl Acetate	9.37	61	29667	No Calib		
40) 1-Butanol	8.90	56	4502	No Calib	#	
41) Benzene	8.97	78	1812	N.D.		
42) Carbon Tetrachloride	9.13	117	709	N.D.		
43) Cyclohexane	9.36	84	766	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D. d		
47) Trichloroethene	10.21	130	516621	21.507 ng		98
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS13\DATA\2023_03\24\03242331.D
 Acq On : 25 Mar 2023 00:39
 Sample : P2301250-025dil (100mL)
 Misc : S35-01202301

Vial: 14
 Operator: TZ
 Inst : MS13

Quant Time: Mar 27 14:09:13 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

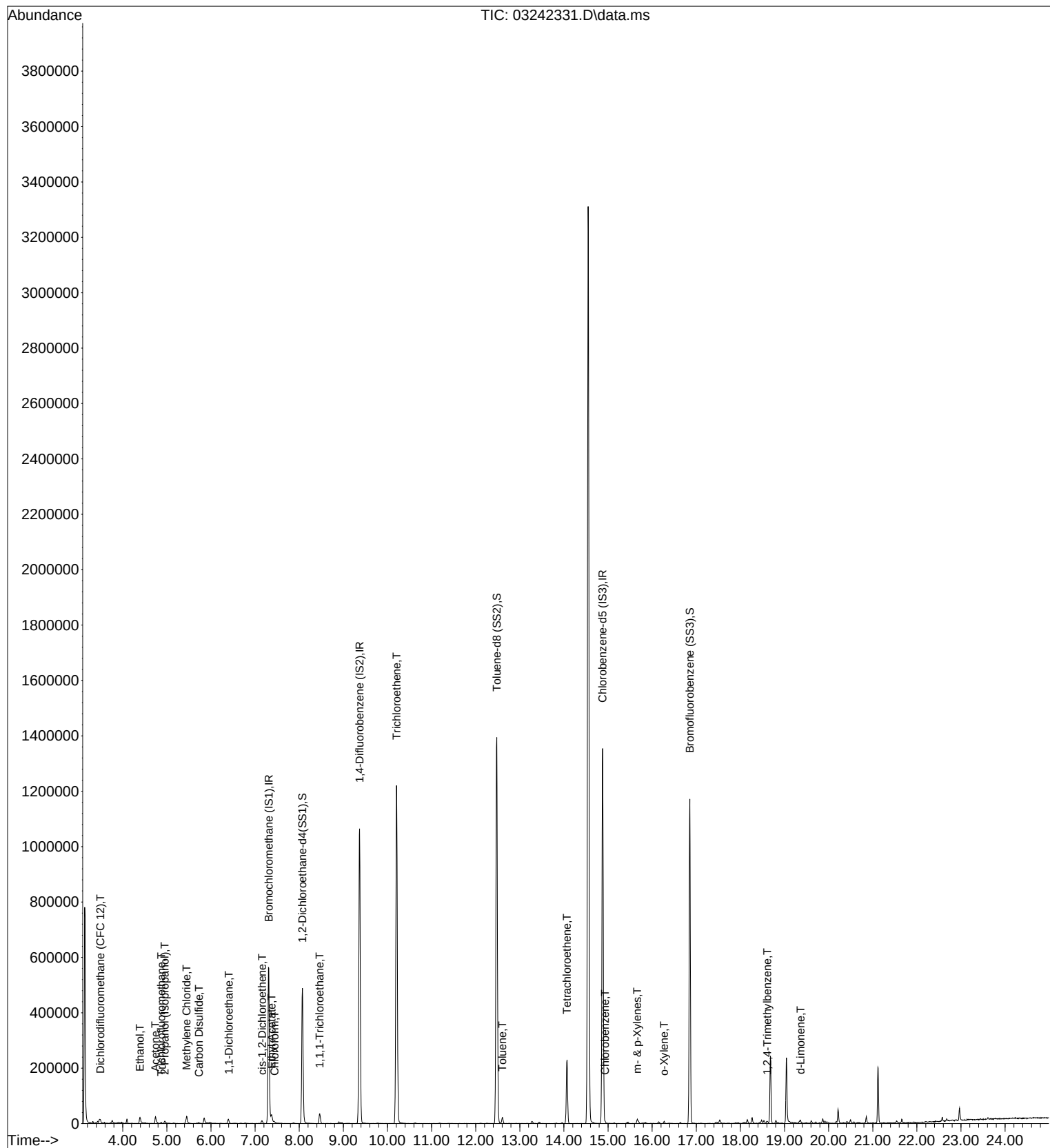
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.63	71	475	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.60	91	19960	0.210	ng	100
59) 2-Hexanone	12.98	43	346	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.83	43	1600	N.D.		
63) n-Octane	13.95	57	463	N.D.		
64) Tetrachloroethene	14.07	166	85330	2.947	ng	99
65) Chlorobenzene	14.93	112	4469	0.071	ng	99
66) Ethylbenzene	15.45	91	4768	N.D.		
67) m- & p-Xylenes	15.66	91	14314	0.157	ng	93
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.14	104	1502	N.D.		
70) o-Xylene	16.27	91	5616	0.064	ng	95
71) n-Nonane	16.64	43	1815	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	17.06	105	853	N.D.		
75) alpha-Pinene	17.56	93	814	N.D.		
76) n-Propylbenzene	17.74	91	1273	N.D.		
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	1571	N.D.		
79) 1,3,5-Trimethylbenzene	18.07	105	1410	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.61	105	4542	0.051	ng	80
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	18.78	146	285	N.D.		
86) 1,4-Dichlorobenzene	18.87	146	345	N.D.		
87) sec-Butylbenzene	18.96	105	174	N.D.		
88) 4-Isopropyltoluene (p-...	19.17	119	1087	N.D.		
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.31	146	353	N.D.		
91) d-Limonene	19.36	68	2564	0.085	ng	78
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.27	58	377	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	141	N.D.		
95) Naphthalene	21.56	128	1310	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	18.60	119	747	N.D.		
100) n-Butylbenzene	19.71	91	1775	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242331.D
Acq On : 25 Mar 2023 00:39
Sample : P2301250-025dil (100mL)
Misc : S35-01202301

Vial: 14
Operator: TZ
Inst : MS13

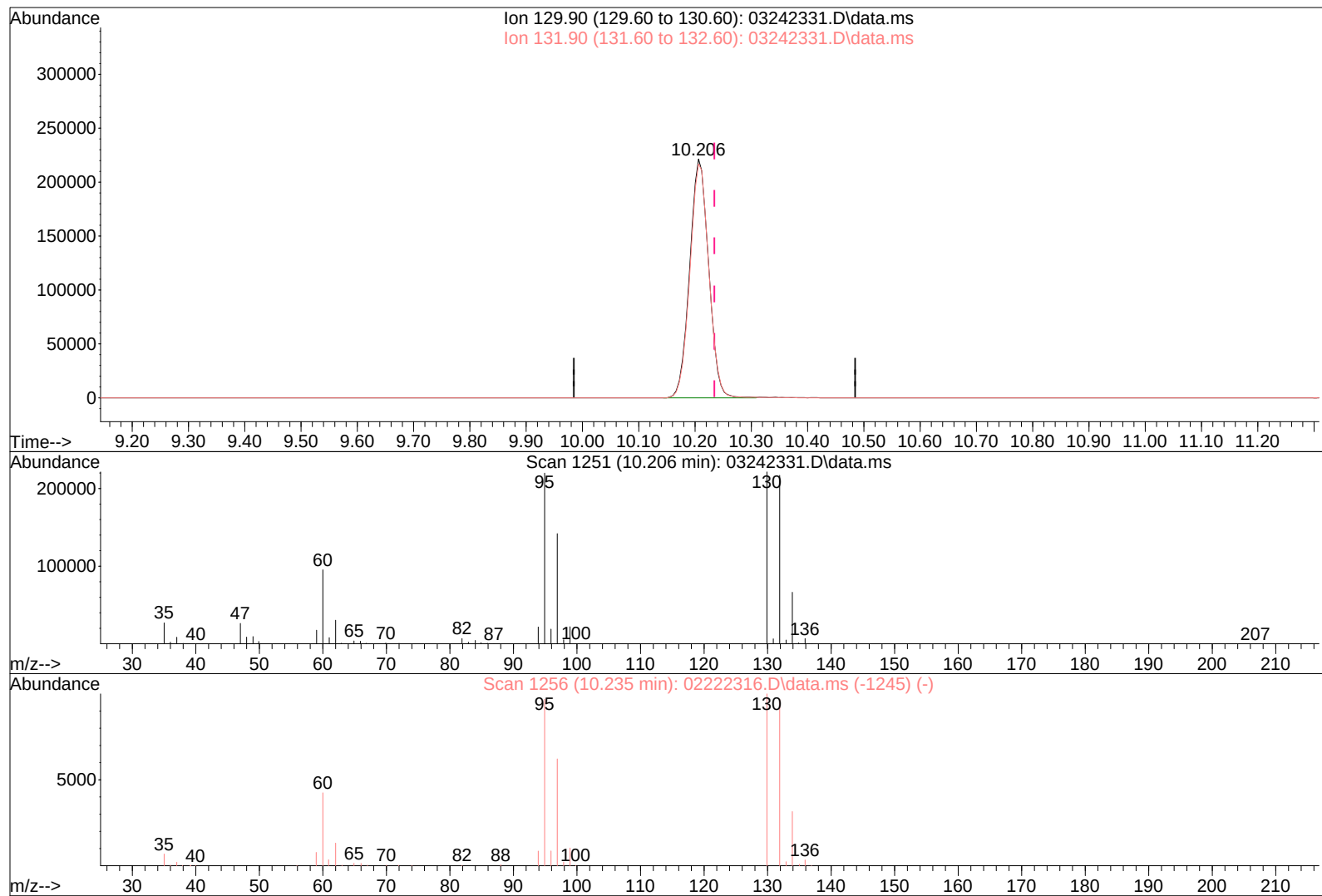
Quant Time: Mar 27 14:09:13 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242331.D
Acq On : 25 Mar 2023 00:39
Sample : P2301250-025dil (100mL)
Misc : S35-01202301

Vial: 14
Operator: TZ
Inst : MS13

Quant Time: Mar 25 06:50:05 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03242331.D\data.ms

(47) Trichloroethene (T)

10.206min (-0.028) 21.51ng

response 516621

Ion	Exp%	Act%
129.90	100	100
131.90	96.30	98.08
0.00	0.00	0.00
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG34-4

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-026

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC01918

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/25/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.90 Final Pressure (psig): 4.25

Container Dilution Factor: 1.93

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	1.0	0.17	0.48	0.21	0.034	
74-87-3	Chloromethane	ND	0.41	0.17	ND	0.20	0.080	
75-01-4	Vinyl Chloride	0.21	0.21	0.11	0.083	0.083	0.043	
74-83-9	Bromomethane	ND	0.41	0.14	ND	0.10	0.037	
75-00-3	Chloroethane	ND	0.41	0.13	ND	0.15	0.048	
67-64-1	Acetone	34	10	2.3	14	4.3	0.98	
75-69-4	Trichlorofluoromethane	1.1	1.0	0.16	0.19	0.18	0.028	
75-35-4	1,1-Dichloroethene	ND	0.21	0.14	ND	0.054	0.036	
75-09-2	Methylene Chloride	4.9	1.0	0.29	1.4	0.29	0.083	
76-13-1	Trichlorotrifluoroethane	0.52	1.0	0.15	0.067	0.14	0.019	J
75-15-0	Carbon Disulfide	0.76	2.1	0.31	0.24	0.66	0.099	J
156-60-5	trans-1,2-Dichloroethene	ND	0.21	0.14	ND	0.054	0.036	
75-34-3	1,1-Dichloroethane	0.71	0.21	0.15	0.17	0.052	0.037	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	0.12	ND	0.29	0.034	
78-93-3	2-Butanone (MEK)	2.3	2.0	0.21	0.78	0.68	0.072	
156-59-2	cis-1,2-Dichloroethene	ND	0.21	0.14	ND	0.054	0.037	
67-66-3	Chloroform	15	0.21	0.14	3.1	0.043	0.028	
107-06-2	1,2-Dichloroethane	ND	0.21	0.11	ND	0.052	0.028	
71-55-6	1,1,1-Trichloroethane	5.5	0.21	0.13	1.0	0.039	0.023	
71-43-2	Benzene	0.55	0.21	0.15	0.17	0.066	0.047	
56-23-5	Carbon Tetrachloride	0.32	0.21	0.14	0.051	0.034	0.023	
110-82-7	Cyclohexane	ND	2.0	0.29	ND	0.59	0.084	
78-87-5	1,2-Dichloropropane	ND	0.21	0.13	ND	0.046	0.028	
75-27-4	Bromodichloromethane	0.20	0.21	0.15	0.030	0.032	0.022	J
79-01-6	Trichloroethene	46	0.21	0.14	8.6	0.040	0.026	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: SS-BLDG34-4

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-026

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC01918

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/25/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.90 Final Pressure (psig): 4.25

Container Dilution Factor: 1.93

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.16	ND	0.23	0.035	
108-10-1	4-Methyl-2-pentanone	0.40	2.1	0.14	0.098	0.52	0.034	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.98	0.21	ND	0.22	0.047	
79-00-5	1,1,2-Trichloroethane	ND	0.21	0.10	ND	0.039	0.019	
108-88-3	Toluene	3.3	1.0	0.13	0.87	0.27	0.033	
591-78-6	2-Hexanone	0.39	2.1	0.13	0.094	0.52	0.031	J
124-48-1	Dibromochloromethane	ND	0.21	0.14	ND	0.025	0.016	
106-93-4	1,2-Dibromoethane	ND	0.21	0.12	ND	0.028	0.016	
127-18-4	Tetrachloroethene	120	0.21	0.13	18	0.031	0.020	
108-90-7	Chlorobenzene	ND	1.0	0.14	ND	0.22	0.030	
100-41-4	Ethylbenzene	0.84	1.0	0.14	0.19	0.24	0.033	J
179601-23-1	m,p-Xylenes	3.1	2.1	0.27	0.72	0.49	0.062	
75-25-2	Bromoform	ND	1.0	0.21	ND	0.10	0.021	
100-42-5	Styrene	0.56	1.0	0.17	0.13	0.24	0.039	J
95-47-6	o-Xylene	1.4	1.0	0.15	0.32	0.24	0.034	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.21	0.14	ND	0.031	0.021	
98-82-8	Cumene	ND	1.0	0.15	ND	0.21	0.030	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.15	ND	0.17	0.026	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.16	ND	0.17	0.026	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.15	ND	0.17	0.025	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.1	0.19	ND	0.22	0.020	
120-82-1	1,2,4-Trichlorobenzene	ND	2.1	0.25	ND	0.29	0.034	
79-20-9	Methyl Acetate	ND	0.97	0.46	ND	0.32	0.15	X
108-87-2	Methylcyclohexane	ND	0.97	0.50	ND	0.24	0.13	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS13\DATA\2023_03\24\03242332.D
 Acq On : 25 Mar 2023 1:15
 Sample : P2301250-026 (1000mL)
 Misc : S35-01202301

Vial: 15
 Operator: TZ
 Inst : MS13

T2 3/27/23

Quant Time: Mar 27 14:15:05 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	232683	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	9.38	114	1048580	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	196951	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	402905	13.048	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	104.40%
57) Toluene-d8 (SS2)	12.48	98	1188508	11.734	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.84%
73) Bromofluorobenzene (SS3)	16.85	174	433340	11.681	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.44%

Target Compounds

						Qvalue
2) Propene	3.41	42	14977	0.644	ng	# 63
3) Dichlorodifluoromethan...	3.48	85	52417	1.230	ng	100
4) Chloromethane	3.63	50	413	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	3.72	135	1039	N.D.		
6) Vinyl Chloride	3.80	62	3118	0.110	ng	85
7) 1,3-Butadiene	0.00	54	0	N.D.	d	
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	4.42	45	571682	34.594	ng	100
11) Acetonitrile	0.00	41	0	N.D.	d	
12) Acrolein	4.64	56	1827	0.134	ng	94
13) Acetone	4.74	58	247744	17.566	ng	97
14) Trichlorofluoromethane	4.86	101	21753	0.567	ng	98
15) 2-Propanol (Isopropanol)	4.96	45	168232	2.955	ng	97
16) Acrylonitrile	5.12	53	499	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.45	84	52214	2.525	ng	93
20) 3-Chloro-1-propene (Al...	5.59	41	294	N.D.		
21) Trichlorotrifluoroethane	5.68	151	5384	0.267	ng	99
22) Carbon Disulfide	5.71	76	32344	0.395	ng	100
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	6.41	63	13459	0.366	ng	96
25) Methyl tert-Butyl Ether	6.40	73	3023	N.D.		
26) Vinyl Acetate	6.53	86	1584	0.415	ng	# 35
27) 2-Butanone (MEK)	6.77	72	14882	1.189	ng	95
28) cis-1,2-Dichloroethene	7.17	61	1527	0.051	ng	88
29) Diisopropyl Ether	7.37	87	674	N.D.		
30) Ethyl Acetate	7.37	61	43677	5.305	ng	93
31) n-Hexane	7.39	57	5227	0.165	ng	99
32) Chloroform	7.45	83	297369	7.932	ng	99
34) Tetrahydrofuran (THF)	7.86	72	2535	0.197	ng	# 41
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.19	62	142	N.D.		
38) 1,1,1-Trichloroethane	8.48	97	99653	2.871	ng	99
39) Isopropyl Acetate	9.38	61	30140	No Calib		
40) 1-Butanol	8.87	56	58156	No Calib	#	
41) Benzene	8.97	78	23144	0.284	ng	99
42) Carbon Tetrachloride	9.14	117	5039	0.165	ng	93
43) Cyclohexane	9.29	84	1125	N.D.		
44) tert-Amyl Methyl Ether	9.65	73	1248	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	10.14	83	3140	0.104	ng	97
47) Trichloroethene	10.21	130	571728	23.924	ng	100
48) 1,4-Dioxane	0.00	88	0	N.D.	d	
49) 2,2,4-Trimethylpentane...	10.30	57	3294	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS13\DATA\2023_03\24\03242332.D
 Acq On : 25 Mar 2023 1:15
 Sample : P2301250-026 (1000mL)
 Misc : S35-01202301

Vial: 15
 Operator: TZ
 Inst : MS13

Quant Time: Mar 27 14:15:05 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

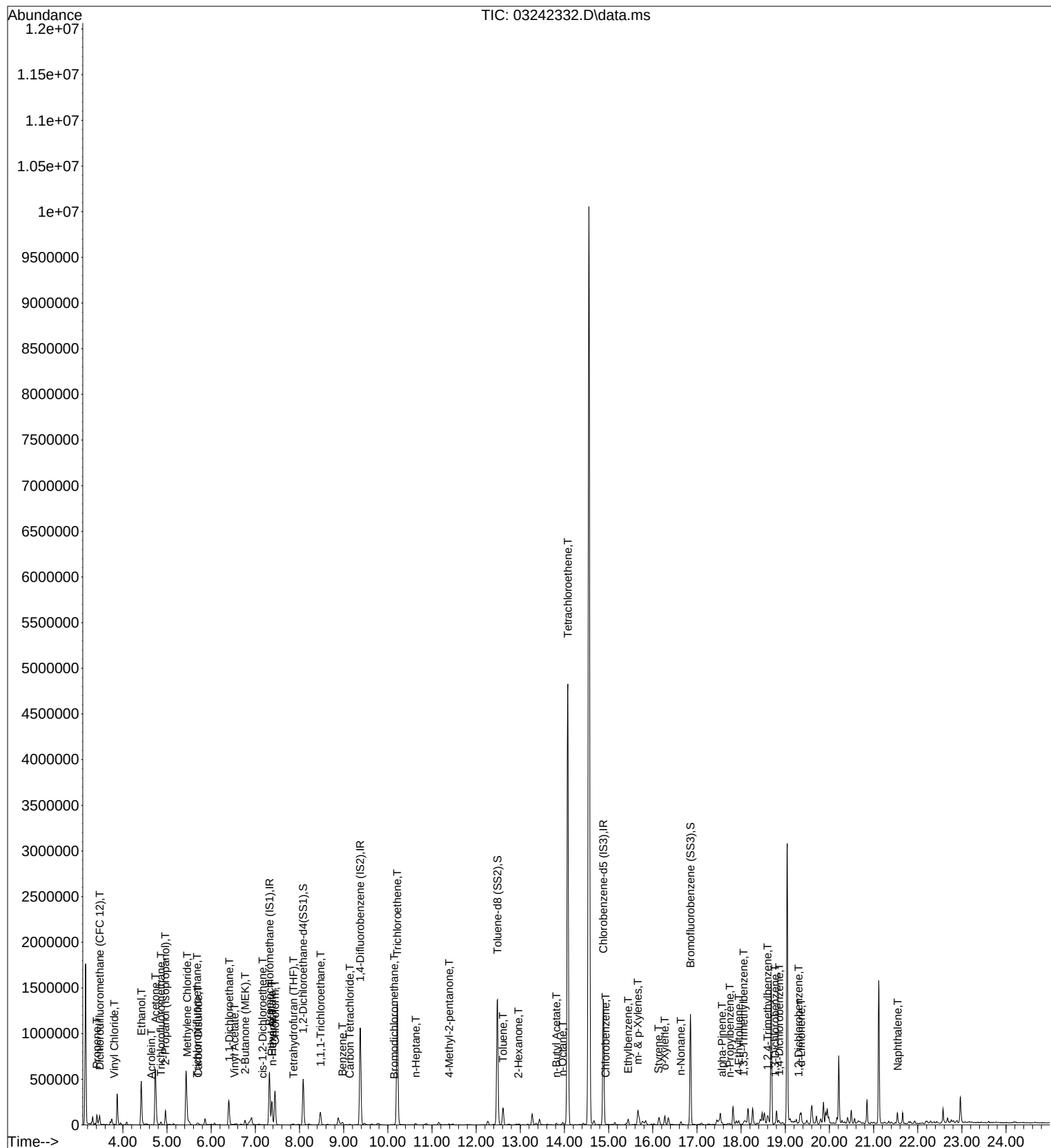
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.63	71	4036	0.204	ng	92
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.39	58	3681	0.209	ng	77
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.61	91	163922	1.700	ng	100
59) 2-Hexanone	12.96	43	9366	0.200	ng	# 72
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.81	43	15792	0.297	ng	98
63) n-Octane	13.96	57	5688	0.300	ng	89
64) Tetrachloroethene	14.08	166	1820214	62.052	ng	100
65) Chlorobenzene	14.93	112	3963	0.062	ng	99
66) Ethylbenzene	15.44	91	50116	0.436	ng	99
67) m- & p-Xylenes	15.66	91	149610	1.616	ng	99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.13	104	18533	0.291	ng	99
70) o-Xylene	16.27	91	64060	0.724	ng	100
71) n-Nonane	16.64	43	15009	0.350	ng	89
72) 1,1,2,2-Tetrachloroethane	16.16	83	191	N.D.		
74) Cumene	17.06	105	4942	N.D.		
75) alpha-Pinene	17.57	93	8101	0.163	ng	91
76) n-Propylbenzene	17.74	91	10760	0.083	ng	97
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	11595	0.112	ng	98
79) 1,3,5-Trimethylbenzene	18.06	105	11064	0.121	ng	96
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.60	105	36998	0.411	ng	90
83) n-Decane	17.10	58	1425	No Calib	#	
84) Benzyl Chloride	18.75	91	620	N.D.		
85) 1,3-Dichlorobenzene	18.77	146	3003	0.055	ng	93
86) 1,4-Dichlorobenzene	18.86	146	3898	0.069	ng	94
87) sec-Butylbenzene	18.96	105	1674	N.D.		
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.	d	
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.30	146	3829	0.071	ng	100
91) d-Limonene	19.36	68	26162	0.859	ng	100
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.26	58	4942	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	377	N.D.		
95) Naphthalene	21.55	128	16531	0.169	ng	97
96) n-Dodecane	19.20	58	1327	No Calib	#	
97) Hexachlorobutadiene	21.98	225	116	N.D.		
98) Cyclohexanone	15.69	55	1474	No Calib	#	
99) tert-Butylbenzene	0.00	119	0	N.D.	d	
100) n-Butylbenzene	0.00	91	0	N.D.	d	
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242332.D
Acq On : 25 Mar 2023 1:15
Sample : P2301250-026 (1000mL)
Misc : S35-01202301

Vial: 15
Operator: TZ
Inst : MS13

Quant Time: Mar 27 14:15:05 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



T 3/27/23

Data File : I:\MS13\DATA\2023_03\24\03242332.D

Vial: 15

Acq On : 25 Mar 2023 1:15

Operator: TZ

Sample : P2301250-026 (1000mL)

Inst : MS13

Misc : S35-01202301

Quant Time: Mar 27 14:15:05 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	232683	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	9.38	114	1048580	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	196951	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	402905	13.048	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	104.40%
57) Toluene-d8 (SS2)	12.48	98	1188508	11.734	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.84%
73) Bromofluorobenzene (SS3)	16.85	174	433340	11.681	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.44%

Target Compounds

						Qvalue
2) Propene	3.41	42	14977	0.644	ng	# 63
3) Dichlorodifluoromethan...	3.48	85	52417	1.230	ng	100
6) Vinyl Chloride	3.80	62	3118	0.110	ng	85
10) Ethanol	4.42	45	571682	34.594	ng	100
12) Acrolein	4.64	56	1827	0.134	ng	94
13) Acetone	4.74	58	247744	17.566	ng	97
14) Trichlorofluoromethane	4.86	101	21753	0.567	ng	98
15) 2-Propanol (Isopropanol)	4.96	45	168232	2.955	ng	97
19) Methylene Chloride	5.45	84	52214	2.525	ng	93
21) Trichlorotrifluoroethane	5.68	151	5384	0.267	ng	99
22) Carbon Disulfide	5.71	76	32344	0.395	ng	100
24) 1,1-Dichloroethane	6.41	63	13459	0.366	ng	96
26) Vinyl Acetate	6.53	86	1584	0.415	ng	# 35
27) 2-Butanone (MEK)	6.77	72	14882	1.189	ng	95
28) cis-1,2-Dichloroethene	7.17	61	1527	0.051	ng	88
30) Ethyl Acetate	7.37	61	43677	5.305	ng	93
31) n-Hexane	7.39	57	5227	0.165	ng	99
32) Chloroform	7.45	83	297369	7.932	ng	99
34) Tetrahydrofuran (THF)	7.86	72	2535	0.197	ng	# 41
38) 1,1,1-Trichloroethane	8.48	97	99653	2.871	ng	99
41) Benzene	8.97	78	23144	0.284	ng	99
42) Carbon Tetrachloride	9.14	117	5039	0.165	ng	93
46) Bromodichloromethane	10.14	83	3140	0.104	ng	97
47) Trichloroethene	10.21	130	571728	23.924	ng	100
51) n-Heptane	10.63	71	4036	0.204	ng	92
53) 4-Methyl-2-pentanone	11.39	58	3681	0.209	ng	77
58) Toluene	12.61	91	163922	1.700	ng	100
59) 2-Hexanone	12.96	43	9366	0.200	ng	# 72
62) n-Butyl Acetate	13.81	43	15792	0.297	ng	98
63) n-Octane	13.96	57	5688	0.300	ng	89
64) Tetrachloroethene	14.08	166	1820214	62.052	ng	100
65) Chlorobenzene	14.93	112	3963	0.062	ng	99
66) Ethylbenzene	15.44	91	50116	0.436	ng	99
67) m- & p-Xylenes	15.66	91	149610	1.616	ng	99
69) Styrene	16.13	104	18533	0.291	ng	99
70) o-Xylene	16.27	91	64060	0.724	ng	100
71) n-Nonane	16.64	43	15009	0.350	ng	89
75) alpha-Pinene	17.57	93	8101	0.163	ng	91
76) n-Propylbenzene	17.74	91	10760	0.083	ng	97
78) 4-Ethyltoluene	17.95	105	11595	0.112	ng	98
79) 1,3,5-Trimethylbenzene	18.06	105	11064	0.121	ng	96
82) 1,2,4-Trimethylbenzene	18.60	105	36998	0.411	ng	90
85) 1,3-Dichlorobenzene	18.77	146	3003	0.055	ng	93
86) 1,4-Dichlorobenzene	18.86	146	3898	0.069	ng	94
90) 1,2-Dichlorobenzene	19.30	146	3829	0.071	ng	100
91) d-Limonene	19.36	68	26162	0.859	ng	100
95) Naphthalene	21.55	128	16531	0.169	ng	97

Data File : I:\MS13\DATA\2023_03\24\03242332.D Vial: 15
Acq On : 25 Mar 2023 1:15 Operator: TZ
Sample : P2301250-026 (1000mL) Inst : MS13
Misc : S35-01202301

Quant Time: Mar 27 14:15:05 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Vial: 15
Operator: TZ
Inst : MS13

Quant Time: Mar 27 14:15:05 2023

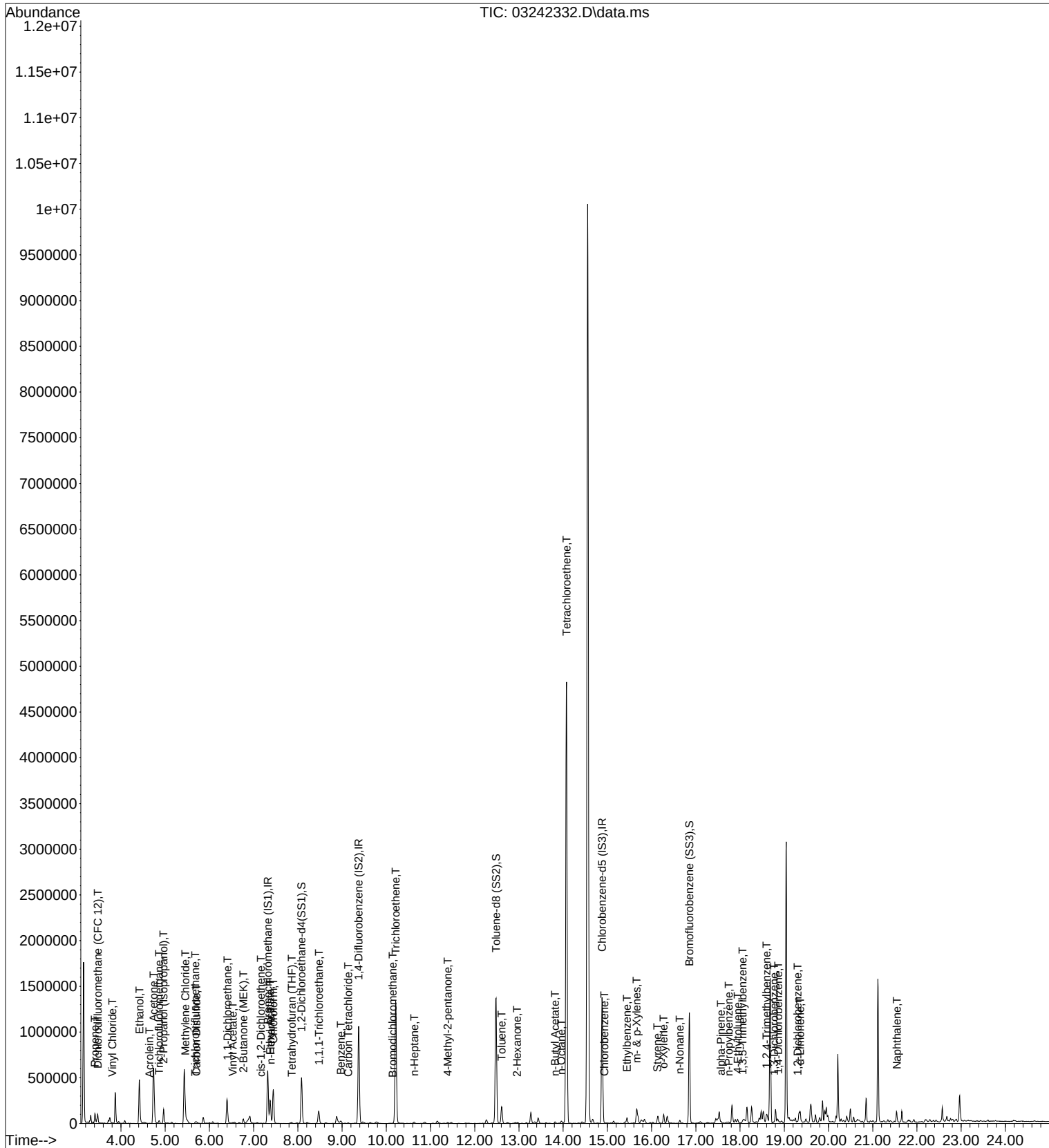
Quant Method : I:\MS13\METHODS\R13022223.M

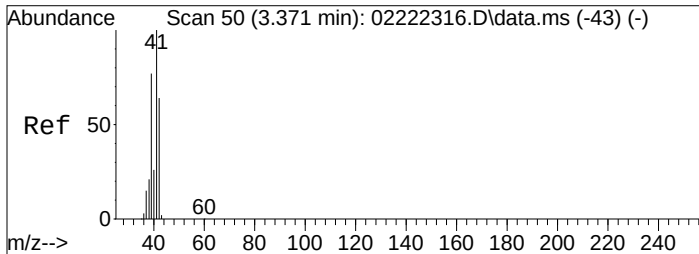
Quant Title : EPA T0-15 per SOP V0A-T015 (CASS T0-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

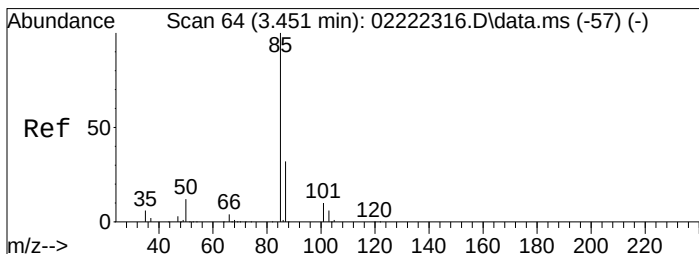
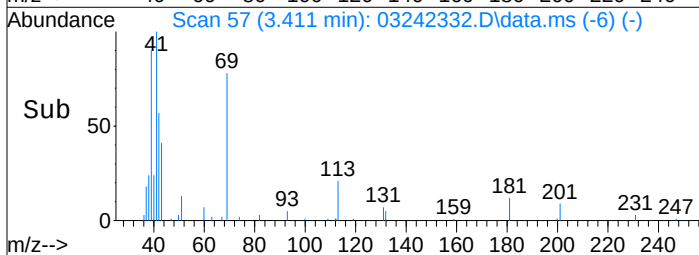
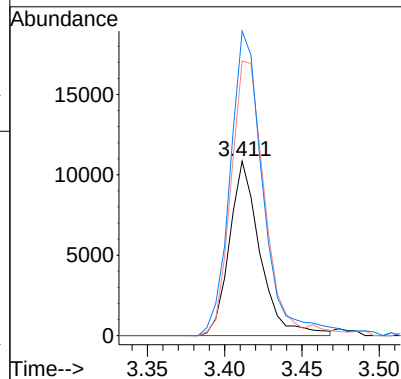
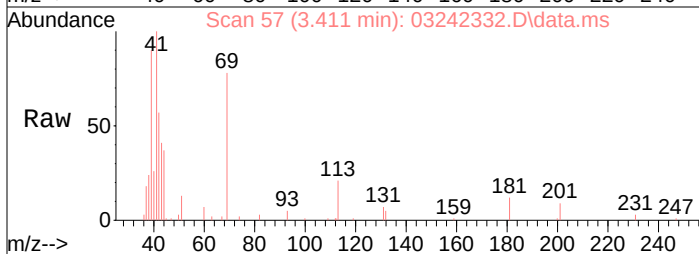
DataAcq Meth:T015.M





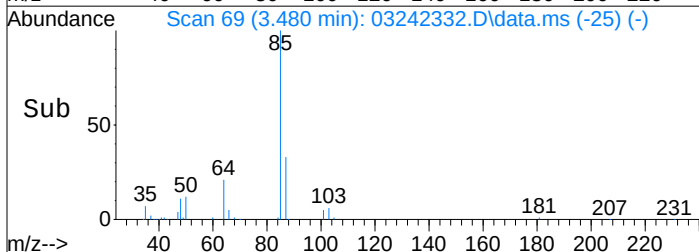
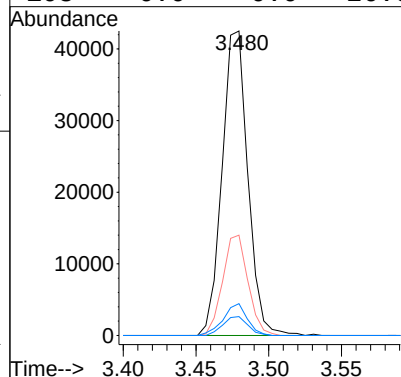
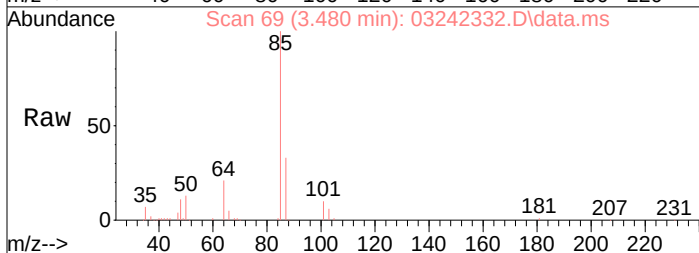
#2
Propene
Concen: 0.64 ng
RT: 3.41 min Scan# 57
Delta R.T. 0.040 min
Lab File: 03242332.D
Acq: 25 Mar 2023 1:15

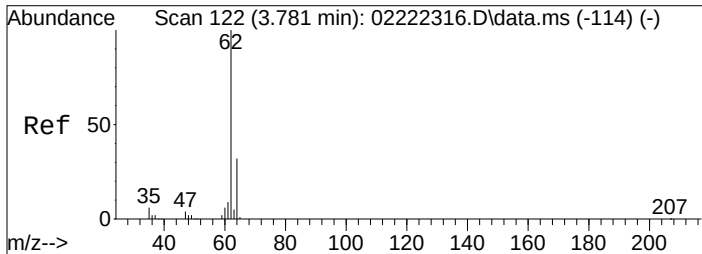
Tgt Ion: 42 Resp: 14977
Ion Ratio Lower Upper
42 100
39 175.2 100.7 140.7#
41 189.7 134.4 174.4#



#3
Dichlorodifluoromethane (CFC 12)
Concen: 1.23 ng
RT: 3.48 min Scan# 69
Delta R.T. 0.002 min
Lab File: 03242332.D
Acq: 25 Mar 2023 1:15

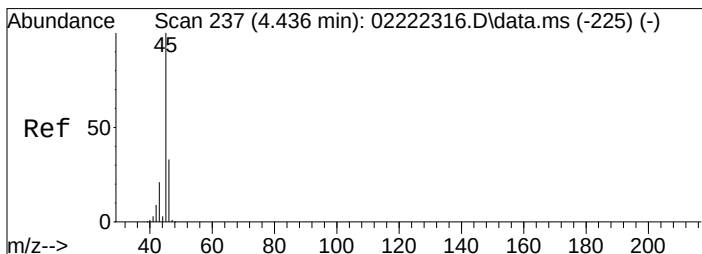
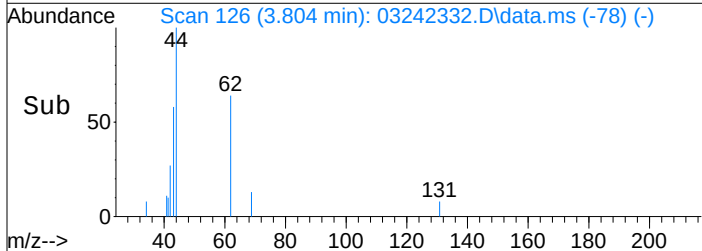
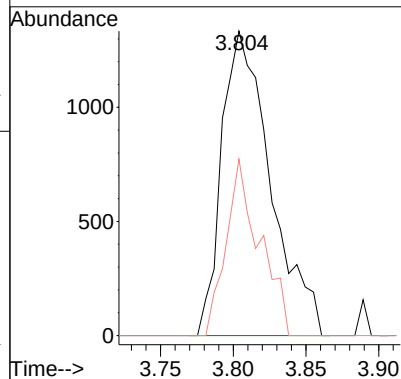
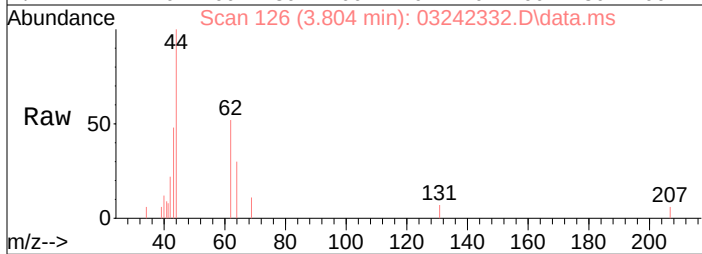
Tgt Ion: 85 Resp: 52417
Ion Ratio Lower Upper
85 100
87 32.3 12.4 52.4
101 9.8 0.0 29.4
103 6.0 0.0 26.0





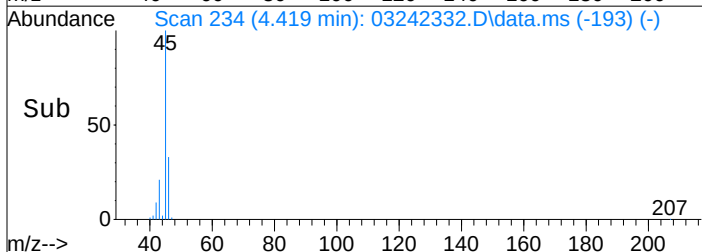
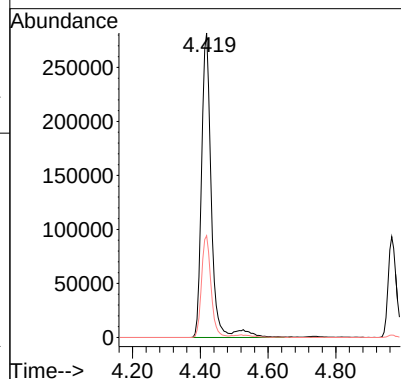
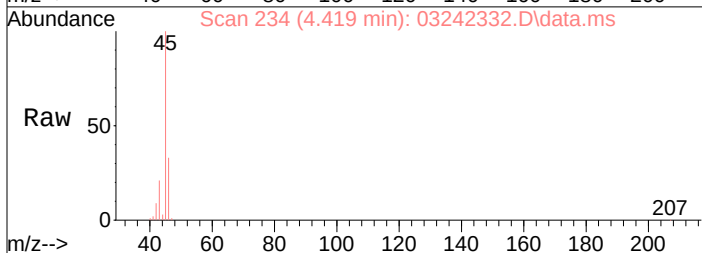
#6
 Vinyl Chloride
 Concen: 0.11 ng
 RT: 3.80 min Scan# 126
 Delta R.T. 0.023 min
 Lab File: 03242332.D
 Acq: 25 Mar 2023 1:15

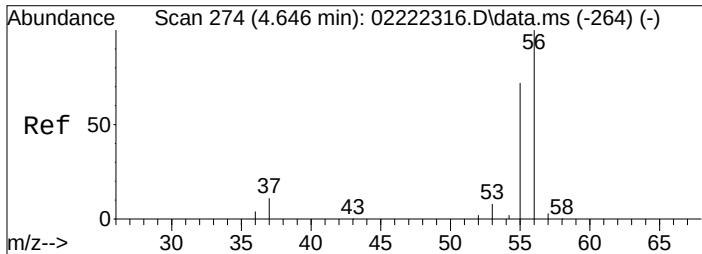
Tgt Ion	Ratio	Lower	Upper
62	100		
64	39.9	11.8	51.8



#10
 Ethanol
 Concen: 34.59 ng
 RT: 4.42 min Scan# 234
 Delta R.T. -0.017 min
 Lab File: 03242332.D
 Acq: 25 Mar 2023 1:15

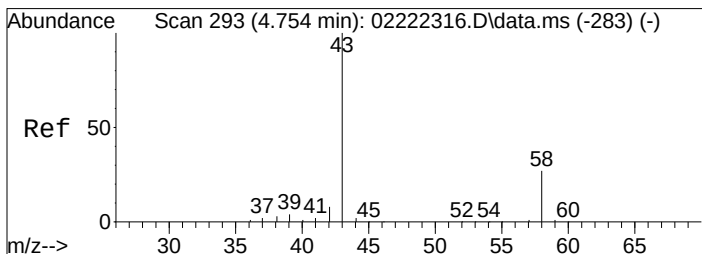
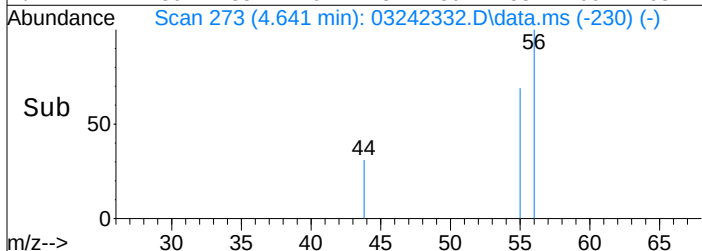
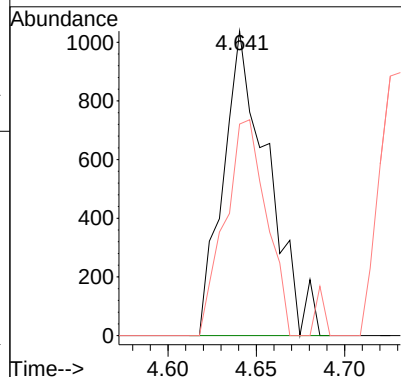
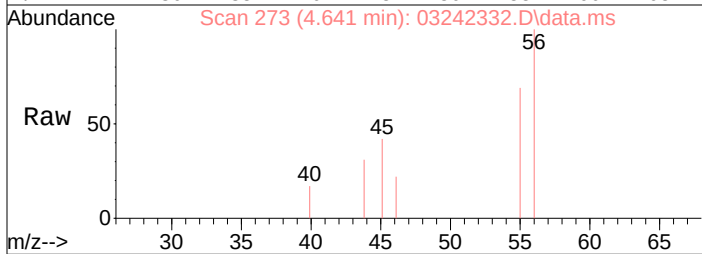
Tgt Ion	Ratio	Lower	Upper
45	100		
46	33.8	13.8	53.8





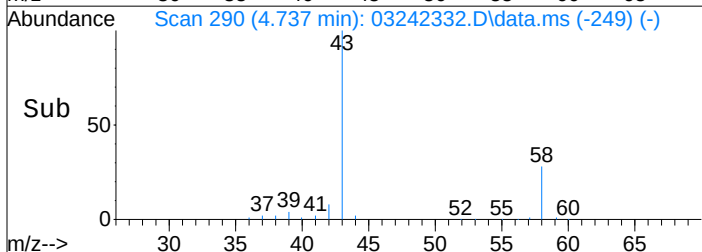
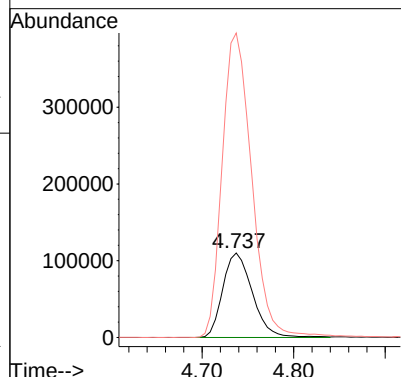
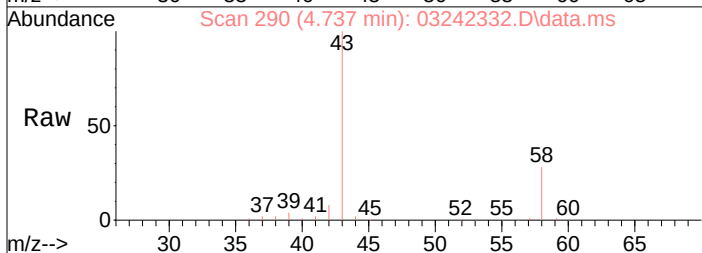
#12
 Acrolein
 Concen: 0.13 ng
 RT: 4.64 min Scan# 273
 Delta R.T. -0.006 min
 Lab File: 03242332.D
 Acq: 25 Mar 2023 1:15

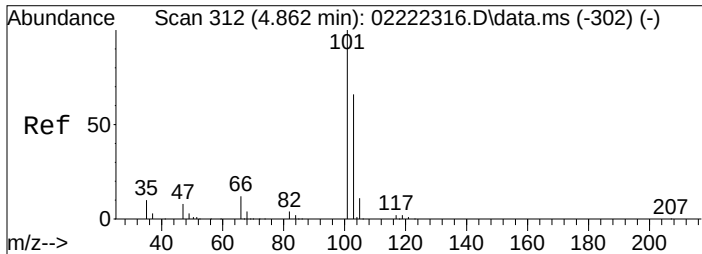
Tgt Ion	Resp	Lower	Upper
56	1827		
55	66.0	50.9	90.9



#13
 Acetone
 Concen: 17.57 ng
 RT: 4.74 min Scan# 290
 Delta R.T. -0.017 min
 Lab File: 03242332.D
 Acq: 25 Mar 2023 1:15

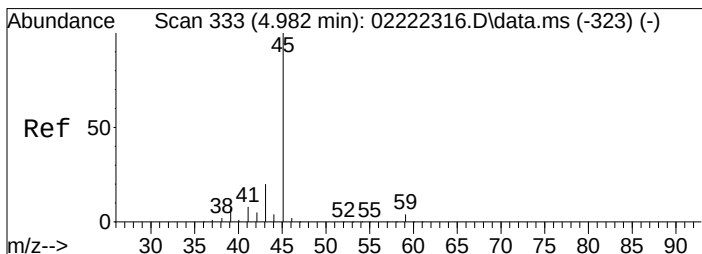
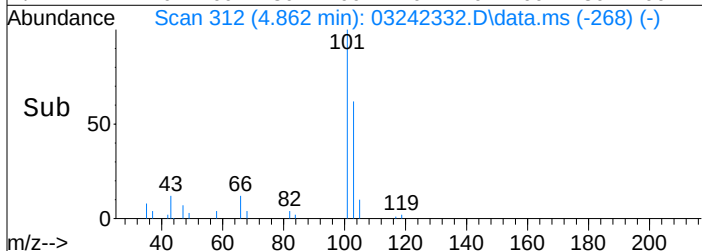
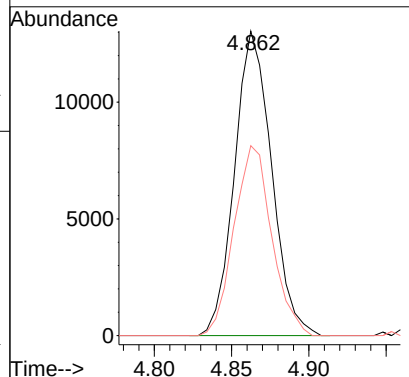
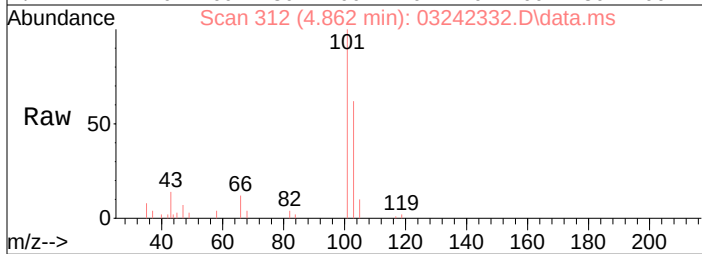
Tgt Ion	Resp	Lower	Upper
58	247744		
43	360.4	337.8	397.8





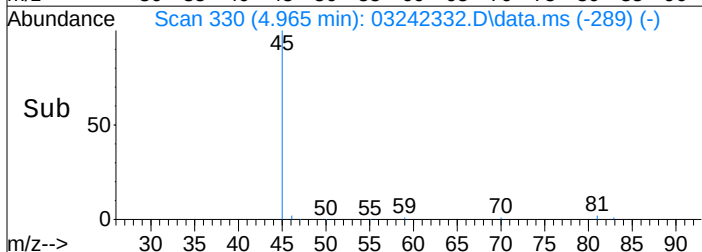
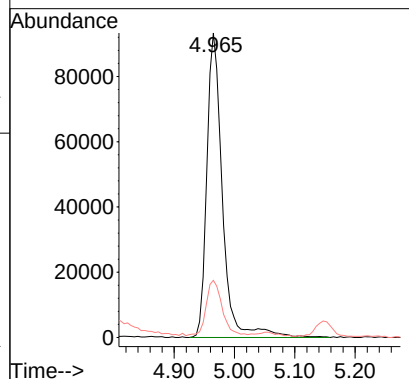
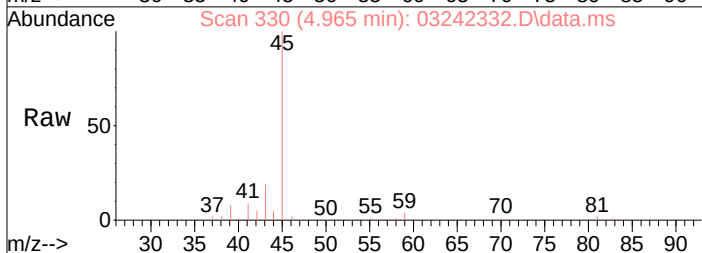
#14
 Trichlorofluoromethane
 Concen: 0.57 ng
 RT: 4.86 min Scan# 312
 Delta R.T. 0.000 min
 Lab File: 03242332.D
 Acq: 25 Mar 2023 1:15

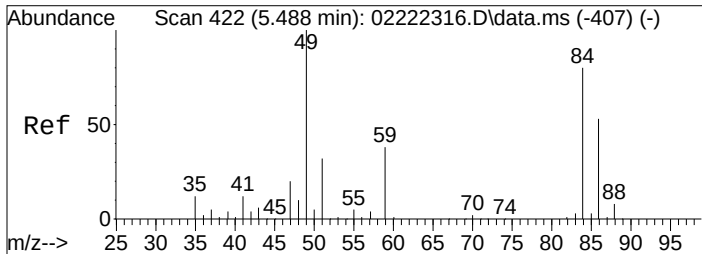
Tgt Ion:	101	Resp:	21753
Ion Ratio	Lower	Upper	
101	100		
103	63.6	45.2	85.2



#15
 2-Propanol (Isopropanol)
 Concen: 2.95 ng
 RT: 4.96 min Scan# 330
 Delta R.T. -0.017 min
 Lab File: 03242332.D
 Acq: 25 Mar 2023 1:15

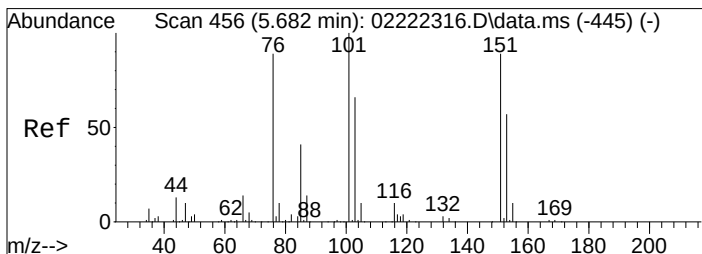
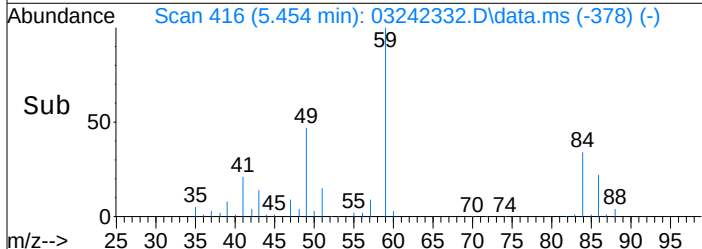
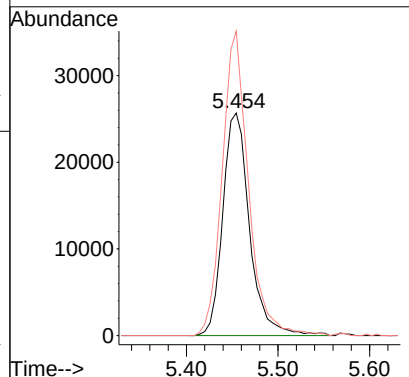
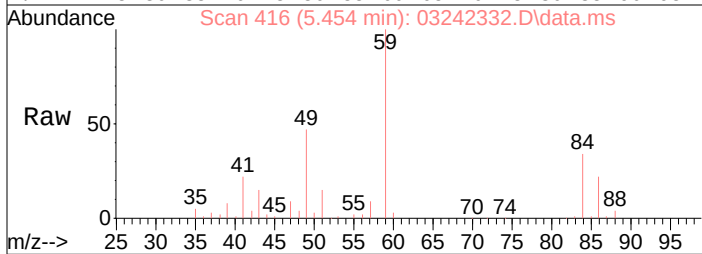
Tgt Ion:	45	Resp:	168232
Ion Ratio	Lower	Upper	
45	100		
43	21.2	0.0	39.7





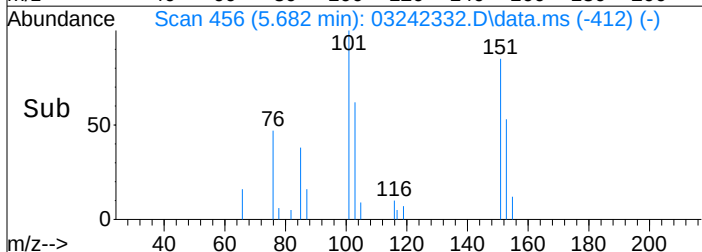
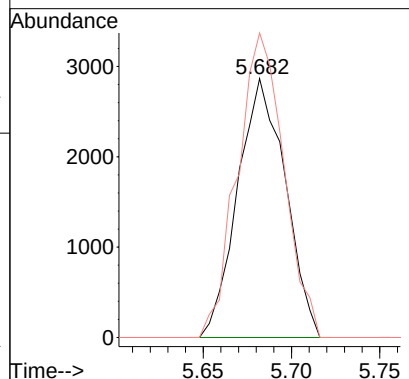
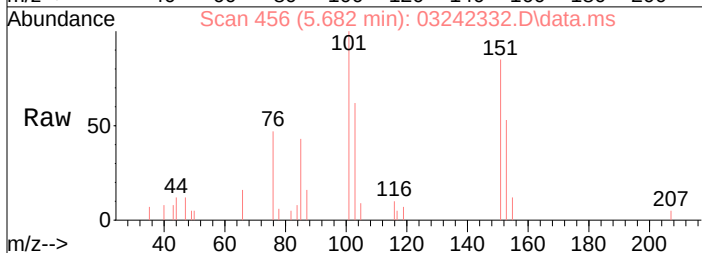
#19
Methylene Chloride
Concen: 2.53 ng
RT: 5.45 min Scan# 416
Delta R.T. -0.034 min
Lab File: 03242332.D
Acq: 25 Mar 2023 1:15

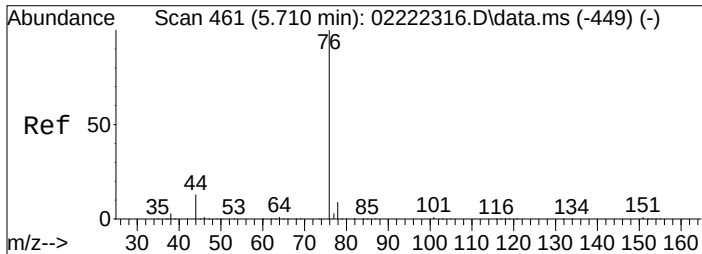
Tgt Ion	84	Resp	52214
Ion Ratio	100	Lower	Upper
49	134.0	101.3	151.3



#21
Trichlorotrifluoroethane
Concen: 0.27 ng
RT: 5.68 min Scan# 456
Delta R.T. 0.000 min
Lab File: 03242332.D
Acq: 25 Mar 2023 1:15

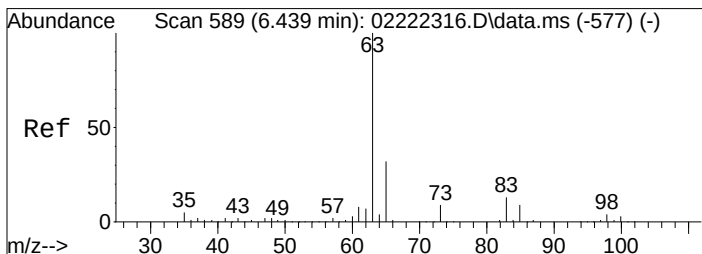
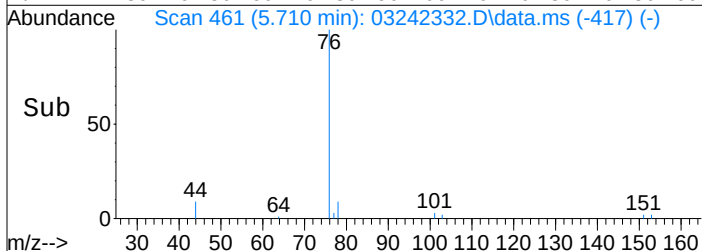
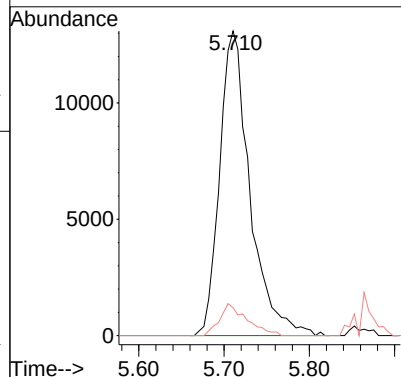
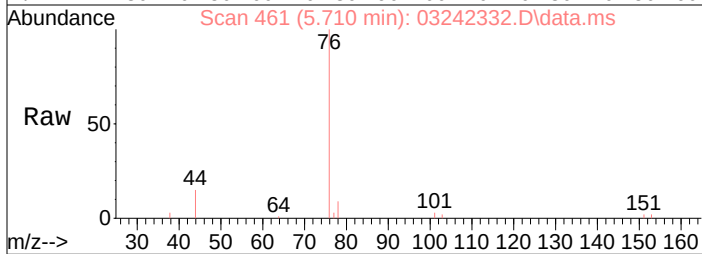
Tgt Ion	151	Resp	5384
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
101	114.9	96.3	136.3





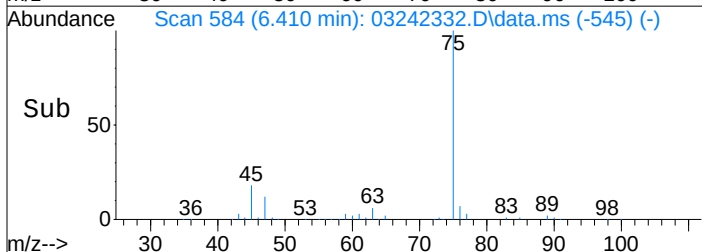
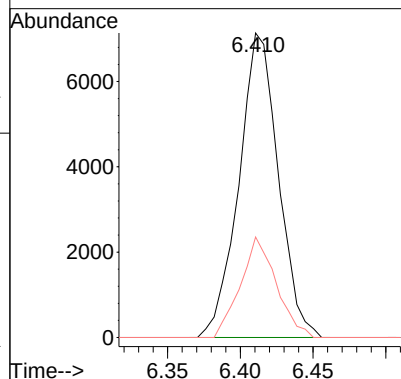
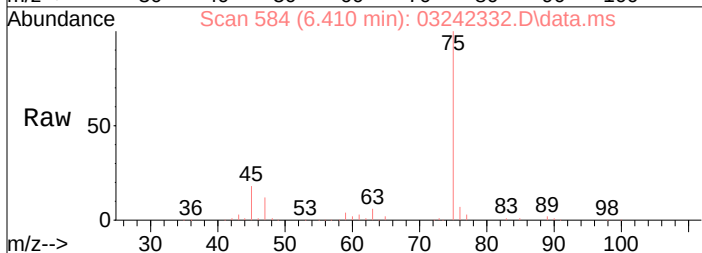
#22
Carbon Disulfide
Concen: 0.40 ng
RT: 5.71 min Scan# 461
Delta R.T. 0.000 min
Lab File: 03242332.D
Acq: 25 Mar 2023 1:15

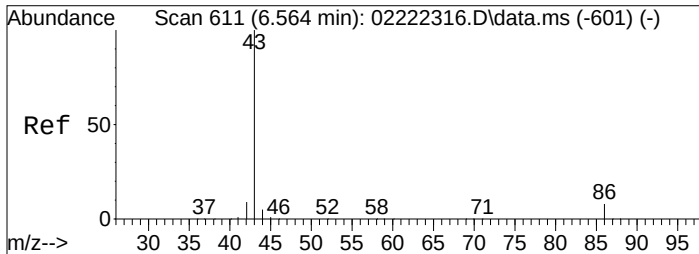
Tgt Ion: 76 Resp: 32344
Ion Ratio Lower Upper
76 100
78 9.4 0.0 29.3



#24
1,1-Dichloroethane
Concen: 0.37 ng
RT: 6.41 min Scan# 584
Delta R.T. -0.028 min
Lab File: 03242332.D
Acq: 25 Mar 2023 1:15

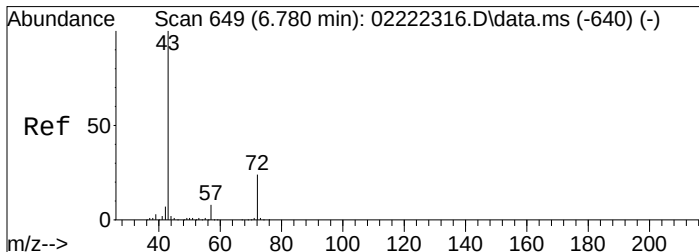
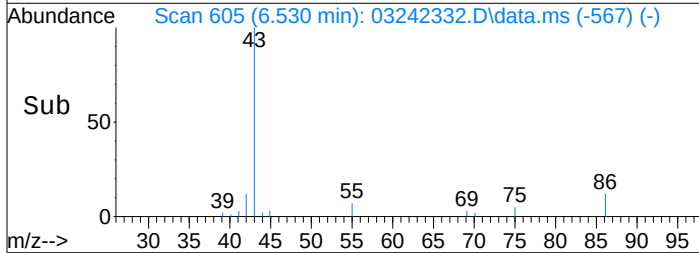
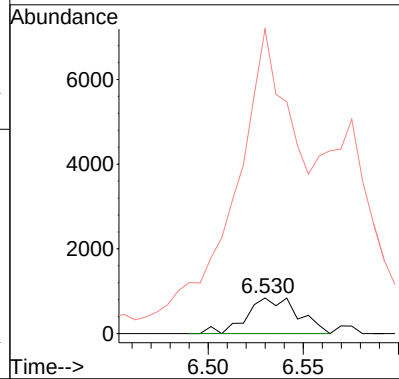
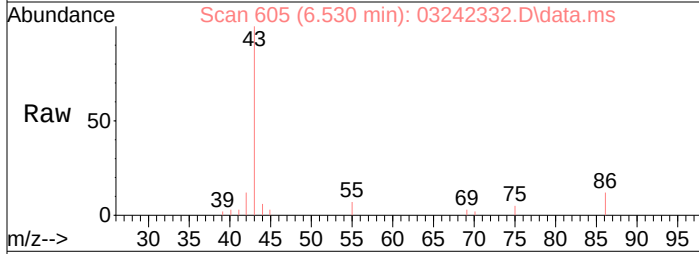
Tgt Ion: 63 Resp: 13459
Ion Ratio Lower Upper
63 100
65 30.0 12.0 52.0





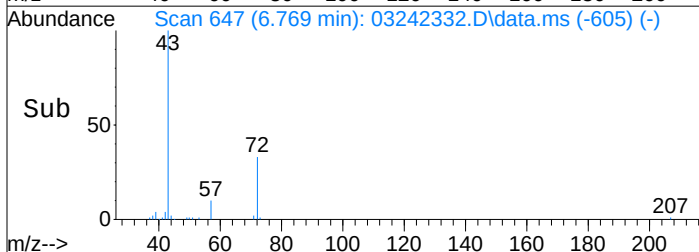
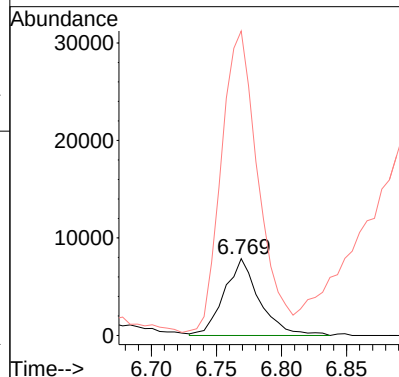
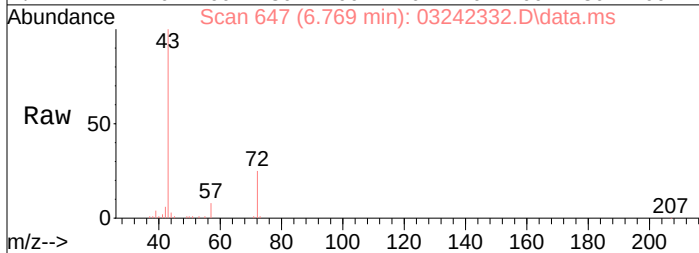
#26
 Vinyl Acetate
 Concen: 0.42 ng
 RT: 6.53 min Scan# 605
 Delta R.T. -0.034 min
 Lab File: 03242332.D
 Acq: 25 Mar 2023 1:15

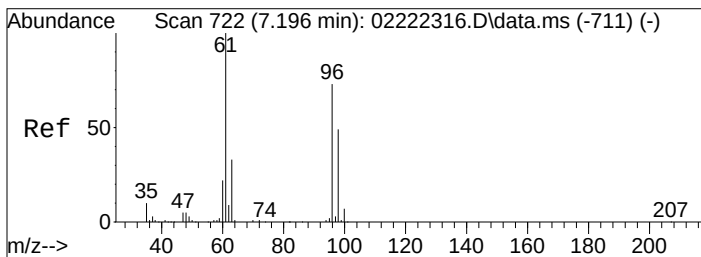
Tgt Ion: 86 Resp: 1584
 Ion Ratio Lower Upper
 86 100
 43 1663.1 1292.1 1332.1#



#27
 2-Butanone (MEK)
 Concen: 1.19 ng
 RT: 6.77 min Scan# 647
 Delta R.T. -0.011 min
 Lab File: 03242332.D
 Acq: 25 Mar 2023 1:15

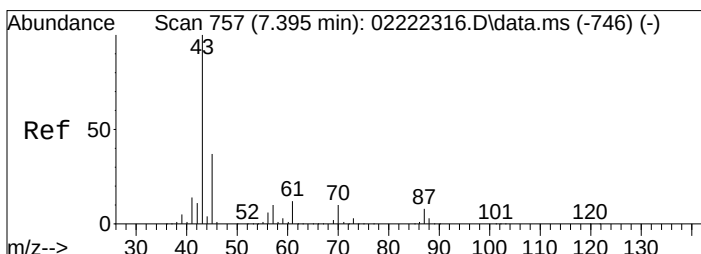
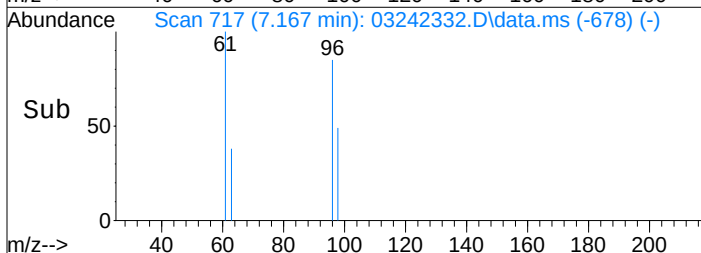
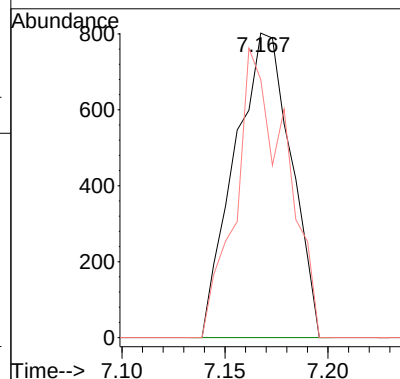
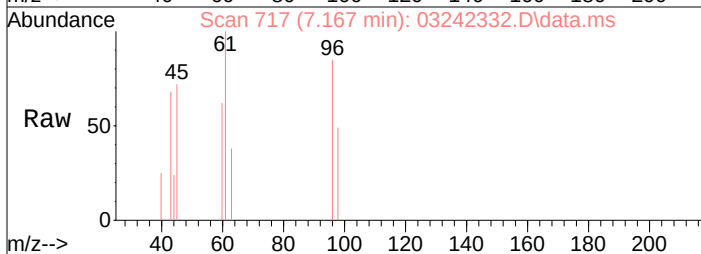
Tgt Ion: 72 Resp: 14882
 Ion Ratio Lower Upper
 72 100
 43 408.9 400.5 440.5





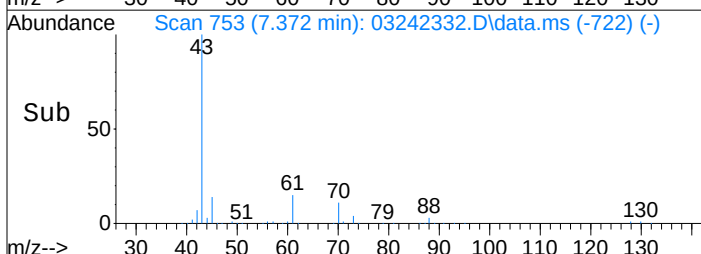
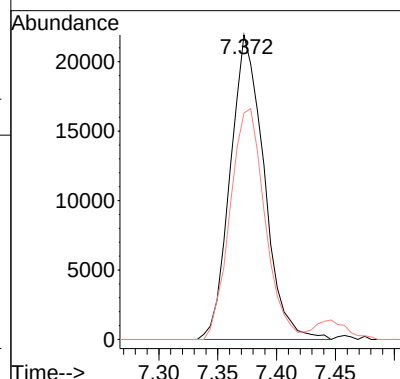
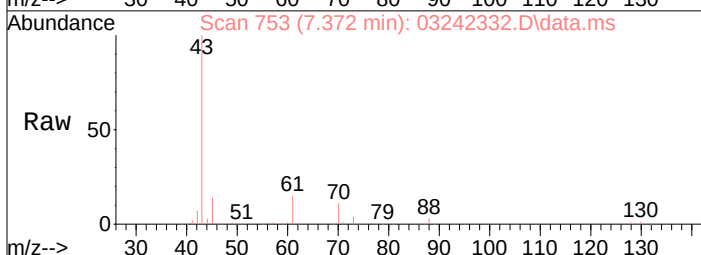
#28
 cis-1,2-Dichloroethene
 Concen: 0.05 ng
 RT: 7.17 min Scan# 717
 Delta R.T. -0.028 min
 Lab File: 03242332.D
 Acq: 25 Mar 2023 1:15

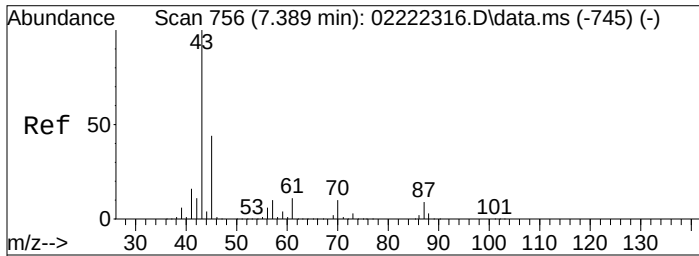
Tgt Ion: 61 Resp: 1527
 Ion Ratio Lower Upper
 61 100
 96 84.7 54.5 94.5



#30
 Ethyl Acetate
 Concen: 5.31 ng
 RT: 7.37 min Scan# 753
 Delta R.T. -0.023 min
 Lab File: 03242332.D
 Acq: 25 Mar 2023 1:15

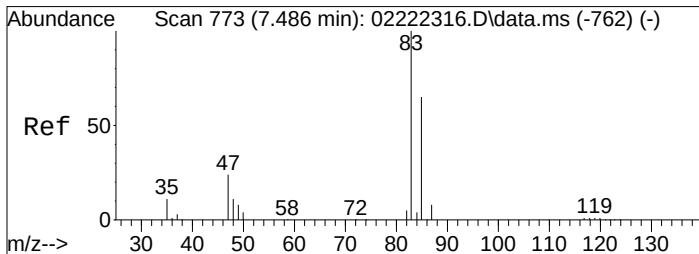
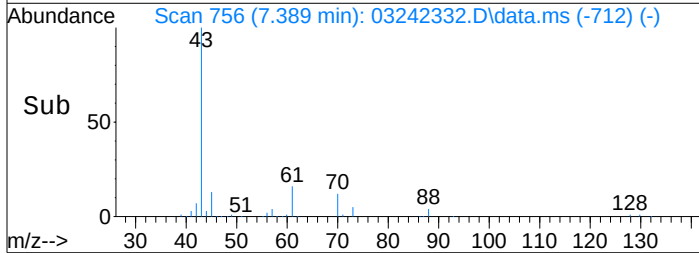
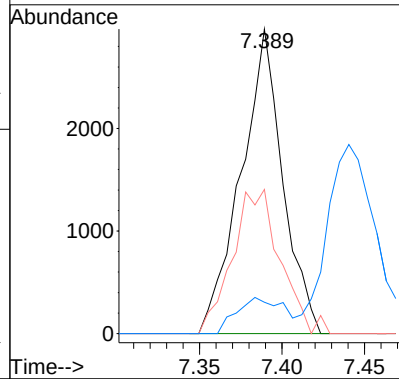
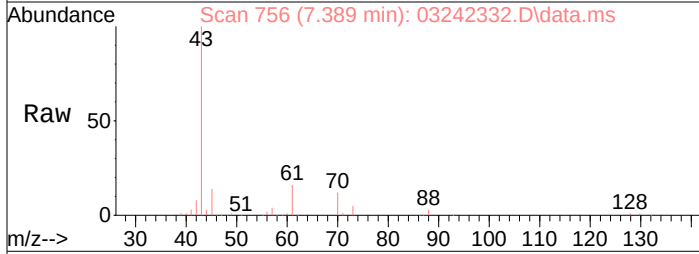
Tgt Ion: 61 Resp: 43677
 Ion Ratio Lower Upper
 61 100
 70 78.8 65.6 105.6





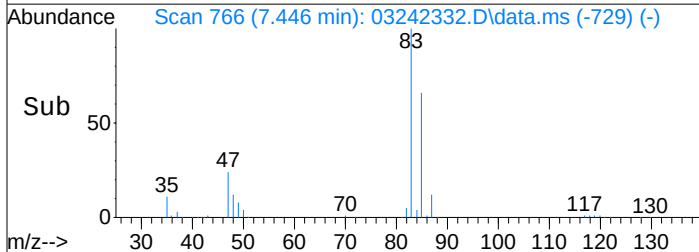
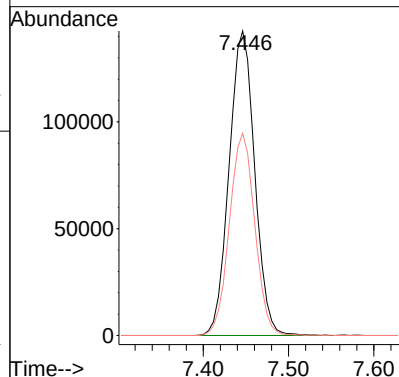
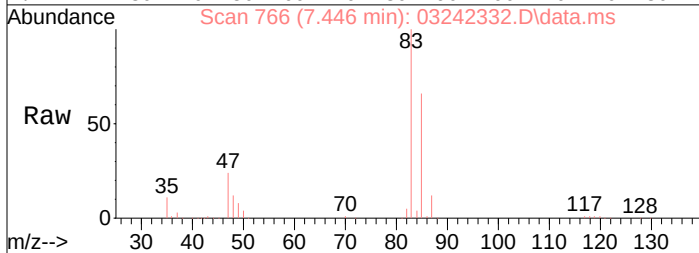
#31
n-Hexane
Concen: 0.16 ng
RT: 7.39 min Scan# 756
Delta R.T. 0.000 min
Lab File: 03242332.D
Acq: 25 Mar 2023 1:15

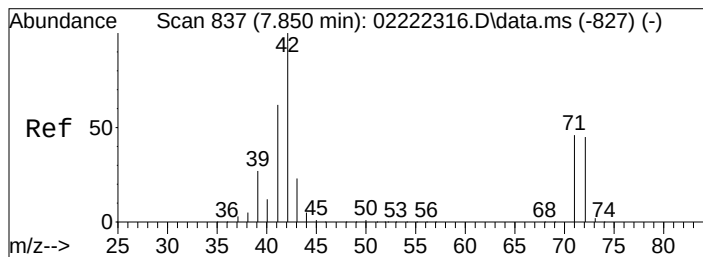
Tgt Ion:	57	Resp:	5227
Ion Ratio	Lower	Upper	
57	100		
56	54.4	44.0	66.0
86	13.2	11.5	17.3



#32
Chloroform
Concen: 7.93 ng
RT: 7.45 min Scan# 766
Delta R.T. -0.040 min
Lab File: 03242332.D
Acq: 25 Mar 2023 1:15

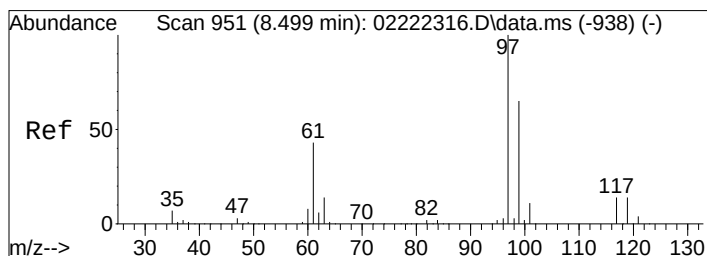
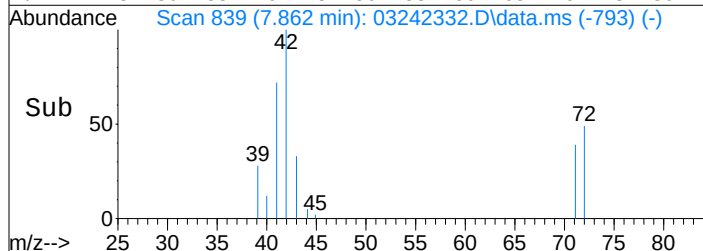
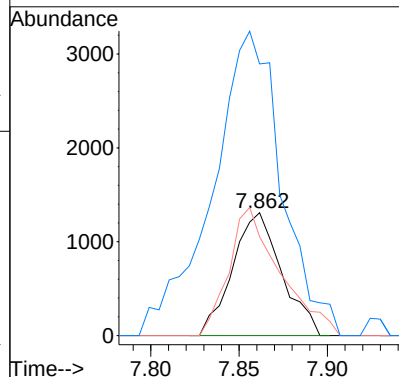
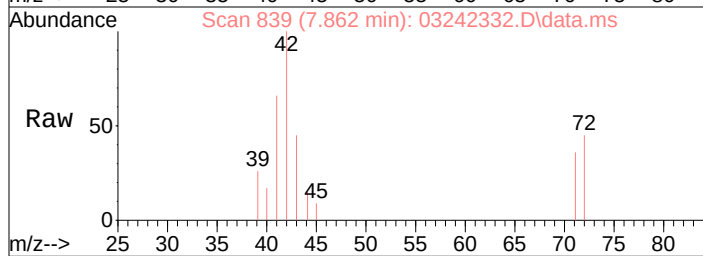
Tgt Ion:	83	Resp:	297369
Ion Ratio	Lower	Upper	
83	100		
85	65.8	45.0	85.0





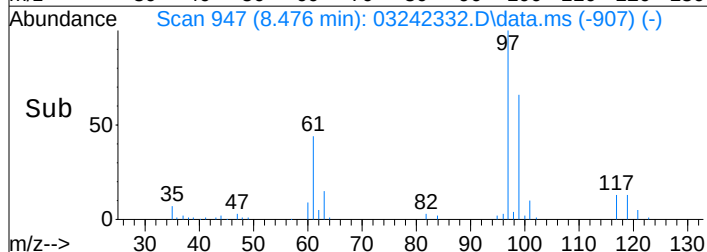
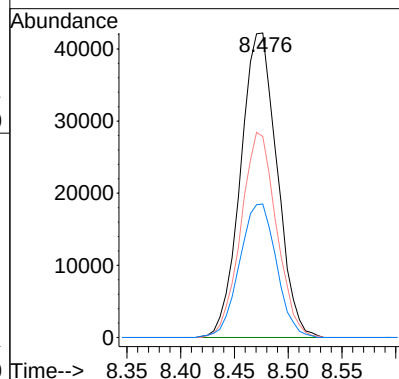
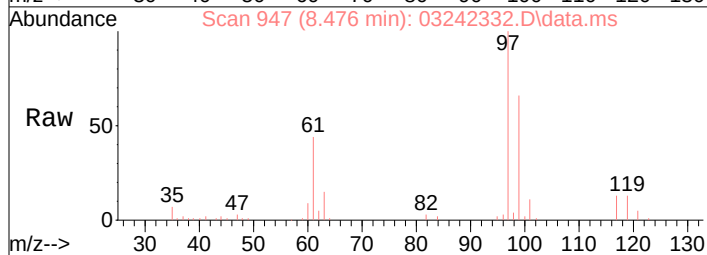
#34
 Tetrahydrofuran (THF)
 Concen: 0.20 ng
 RT: 7.86 min Scan# 839
 Delta R.T. 0.011 min
 Lab File: 03242332.D
 Acq: 25 Mar 2023 1:15

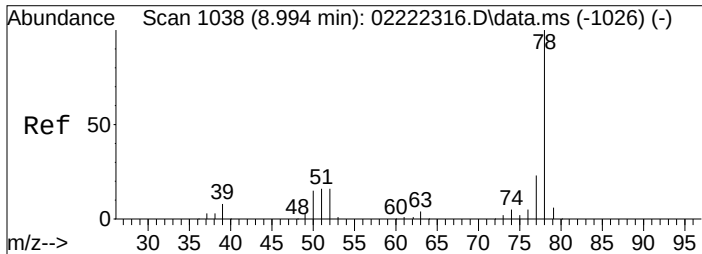
Tgt Ion:	72	Resp:	2535
Ion Ratio	Lower	Upper	
72	100		
71	108.5	79.8	119.8
42	350.9	199.0	239.0#



#38
 1,1,1-Trichloroethane
 Concen: 2.87 ng
 RT: 8.48 min Scan# 947
 Delta R.T. -0.023 min
 Lab File: 03242332.D
 Acq: 25 Mar 2023 1:15

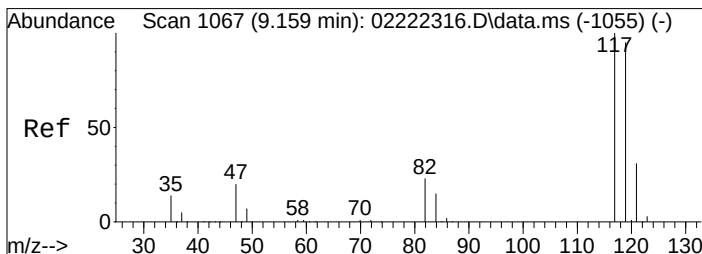
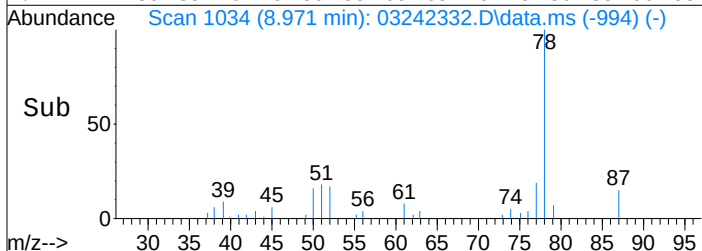
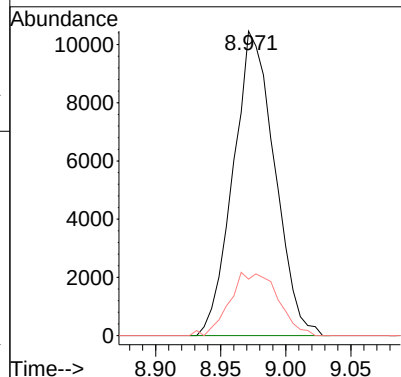
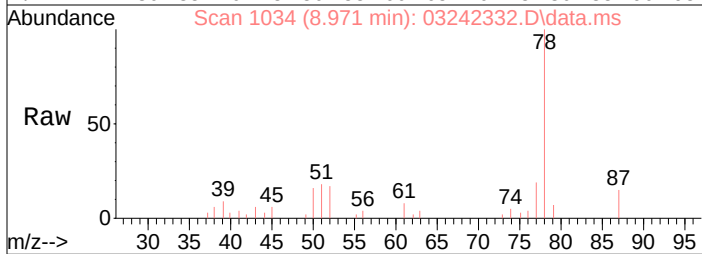
Tgt Ion:	97	Resp:	99653
Ion Ratio	Lower	Upper	
97	100		
99	65.6	44.9	84.9
61	44.3	23.5	63.5





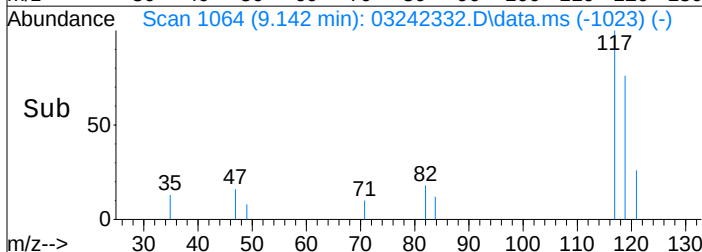
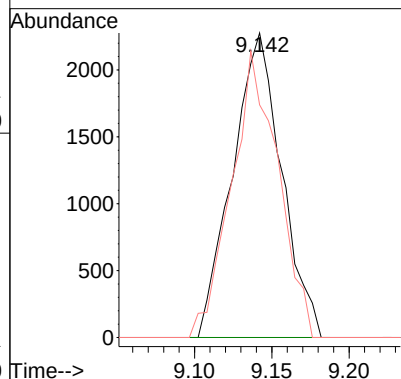
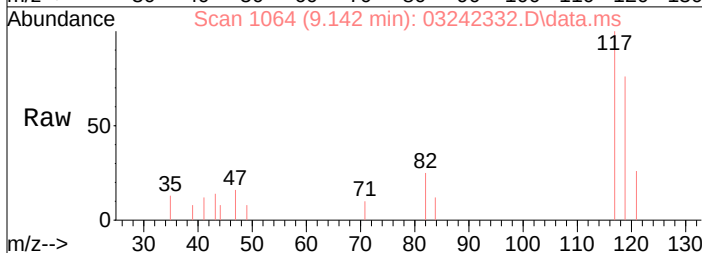
#41
Benzene
Concen: 0.28 ng
RT: 8.97 min Scan# 1034
Delta R.T. -0.023 min
Lab File: 03242332.D
Acq: 25 Mar 2023 1:15

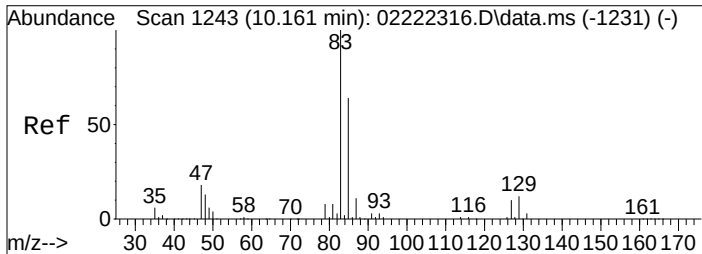
Tgt Ion: 78 Resp: 23144
Ion Ratio Lower Upper
78 100
77 24.1 3.7 43.7



#42
Carbon Tetrachloride
Concen: 0.16 ng
RT: 9.14 min Scan# 1064
Delta R.T. -0.017 min
Lab File: 03242332.D
Acq: 25 Mar 2023 1:15

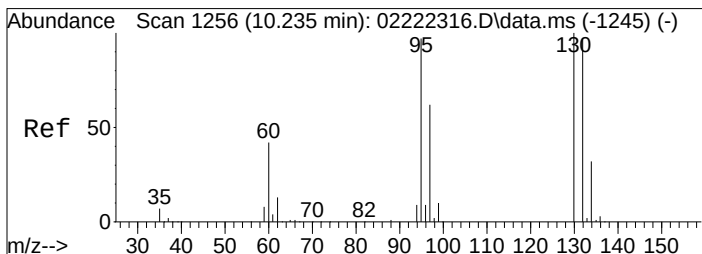
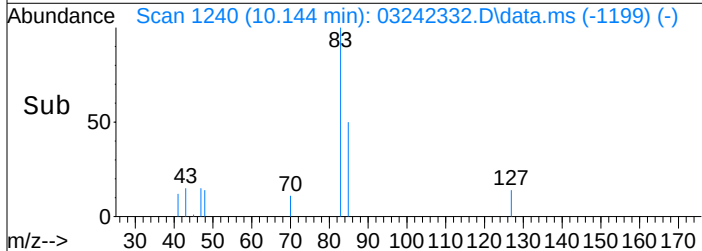
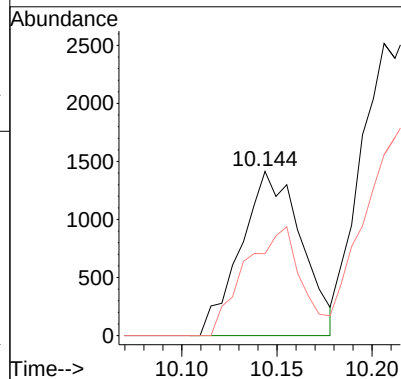
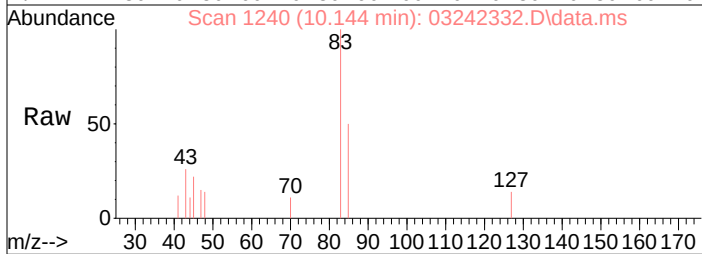
Tgt Ion: 117 Resp: 5039
Ion Ratio Lower Upper
117 100
119 89.1 75.7 115.7





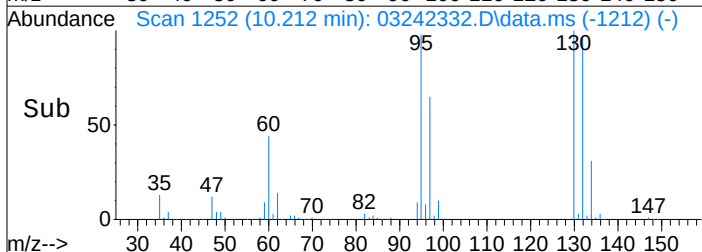
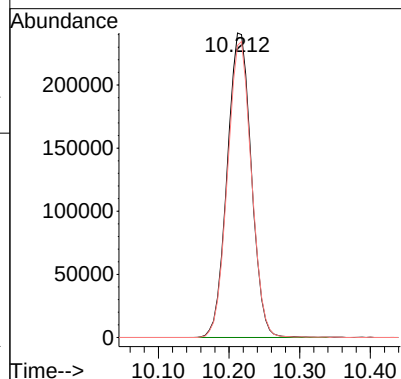
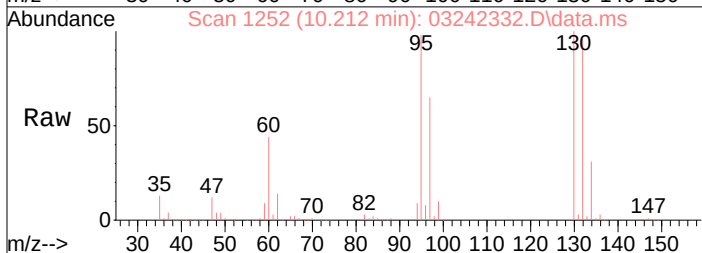
#46
 Bromodichloromethane
 Concen: 0.10 ng
 RT: 10.14 min Scan# 1240
 Delta R.T. -0.017 min
 Lab File: 03242332.D
 Acq: 25 Mar 2023 1:15

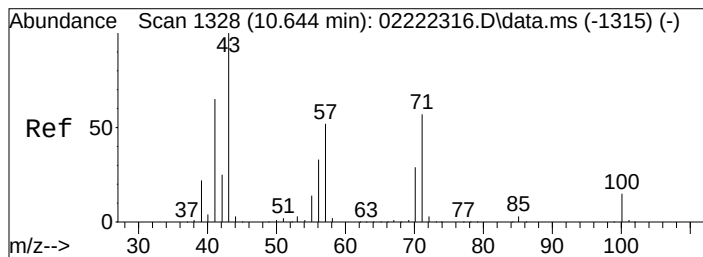
Tgt Ion: 83 Resp: 3140
 Ion Ratio Lower Upper
 83 100
 85 61.6 44.0 84.0



#47
 Trichloroethene
 Concen: 23.92 ng
 RT: 10.21 min Scan# 1252
 Delta R.T. -0.023 min
 Lab File: 03242332.D
 Acq: 25 Mar 2023 1:15

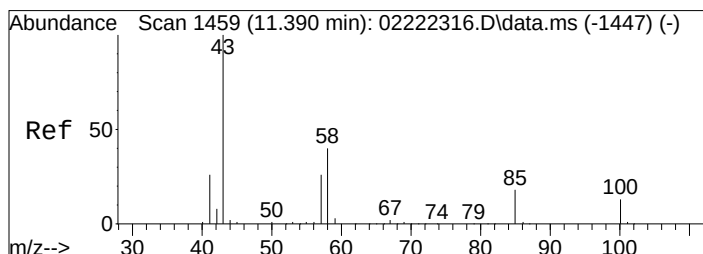
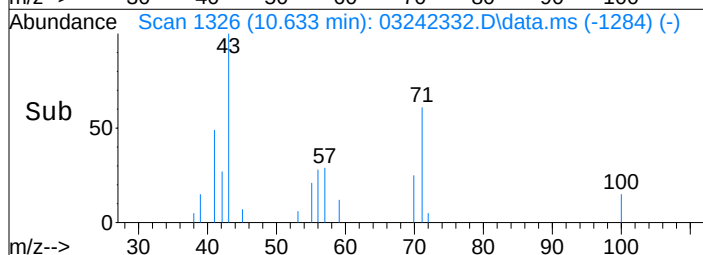
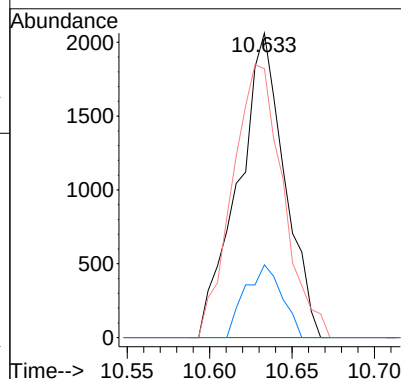
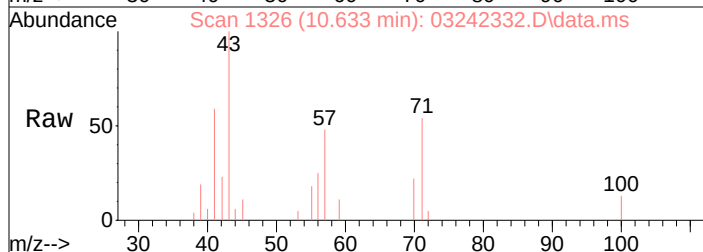
Tgt Ion: 130 Resp: 571728
 Ion Ratio Lower Upper
 130 100
 132 96.7 76.3 116.3





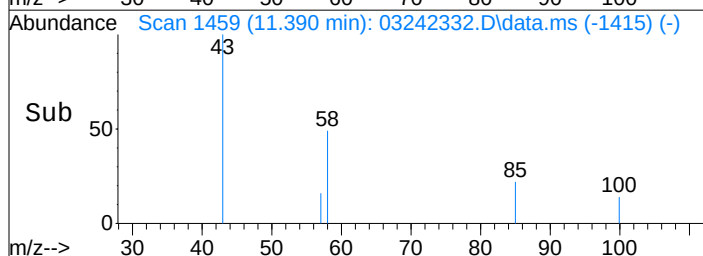
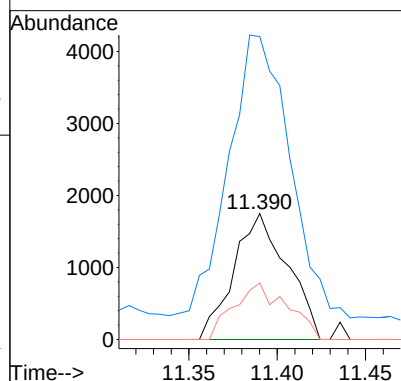
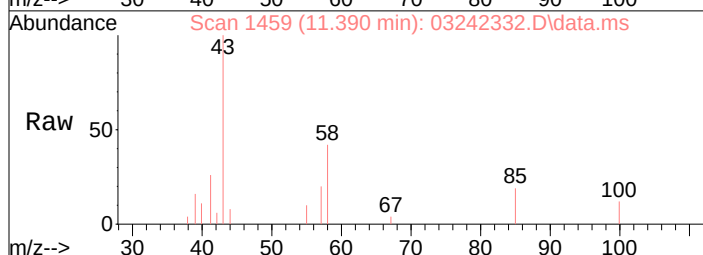
#51
n-Heptane
Concen: 0.20 ng
RT: 10.63 min Scan# 1326
Delta R.T. -0.011 min
Lab File: 03242332.D
Acq: 25 Mar 2023 1:15

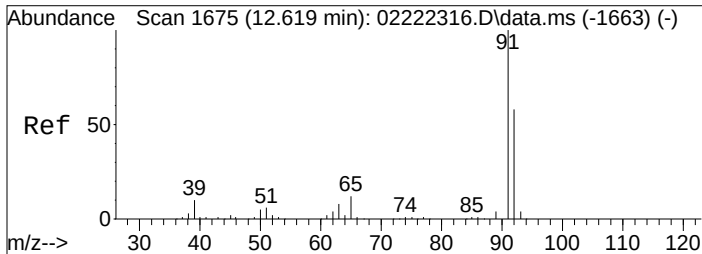
Tgt Ion: 71 Resp: 4036
Ion Ratio Lower Upper
71 100
57 97.7 71.7 111.7
100 19.0 5.8 45.8



#53
4-Methyl-2-pentanone
Concen: 0.21 ng
RT: 11.39 min Scan# 1459
Delta R.T. 0.000 min
Lab File: 03242332.D
Acq: 25 Mar 2023 1:15

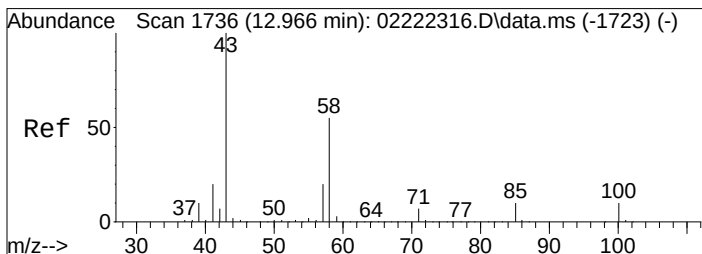
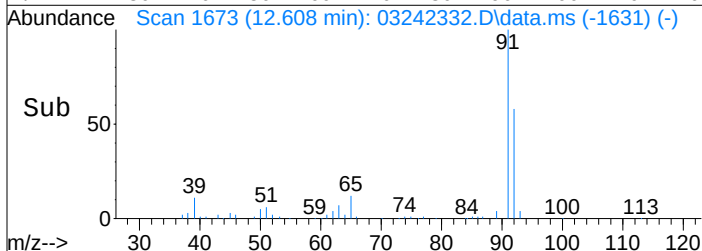
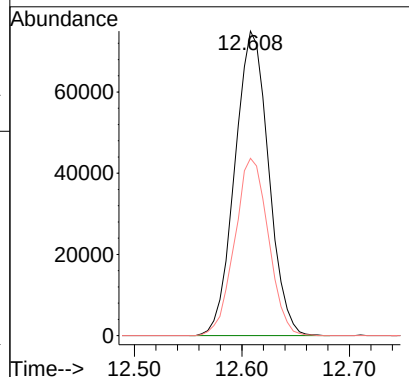
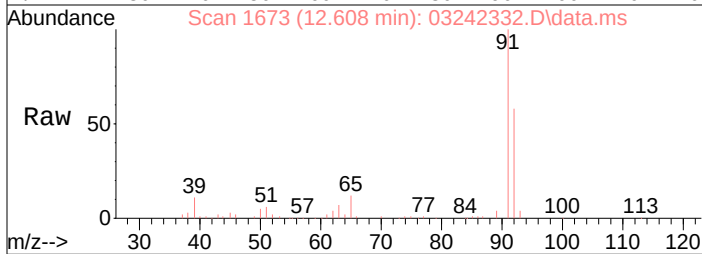
Tgt Ion: 58 Resp: 3681
Ion Ratio Lower Upper
58 100
85 44.7 38.6 58.0
43 299.9 202.2 303.2





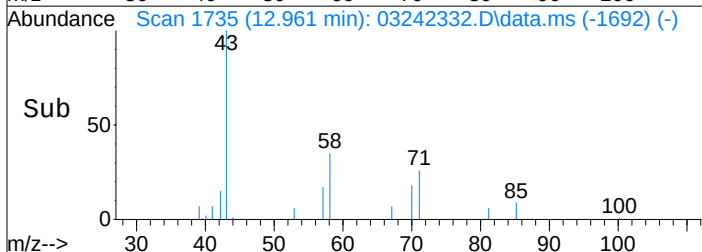
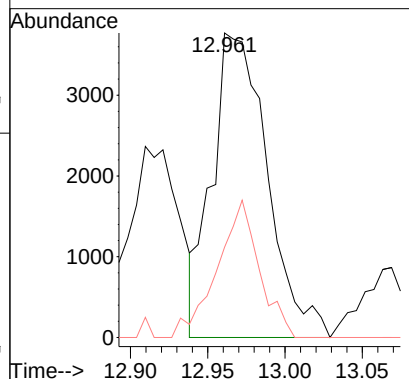
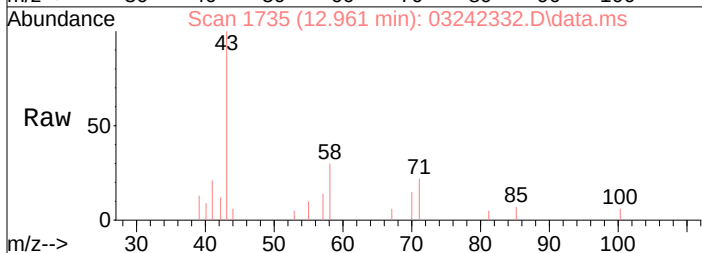
#58
Toluene
Concen: 1.70 ng
RT: 12.61 min Scan# 1673
Delta R.T. -0.011 min
Lab File: 03242332.D
Acq: 25 Mar 2023 1:15

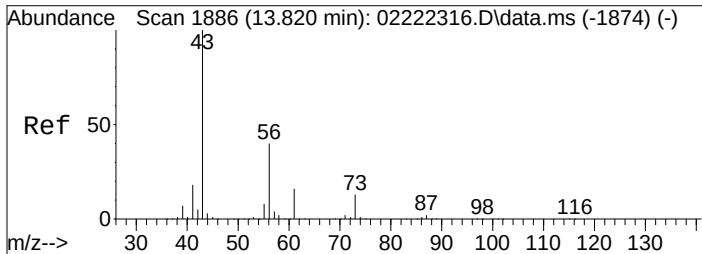
Tgt Ion: 91 Resp: 163922
Ion Ratio Lower Upper
91 100
92 58.0 38.0 78.0



#59
2-Hexanone
Concen: 0.20 ng
RT: 12.96 min Scan# 1735
Delta R.T. -0.006 min
Lab File: 03242332.D
Acq: 25 Mar 2023 1:15

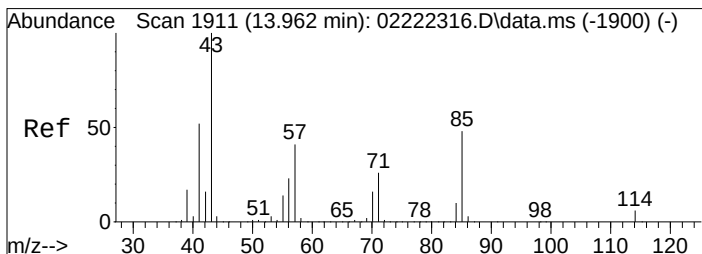
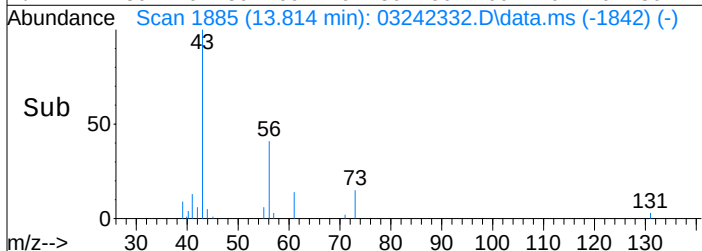
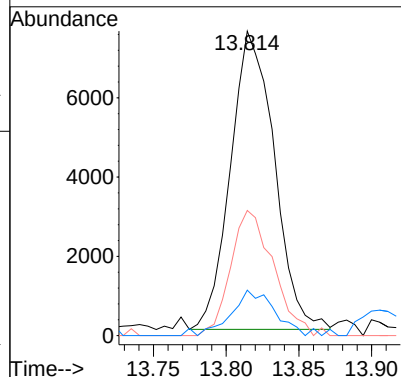
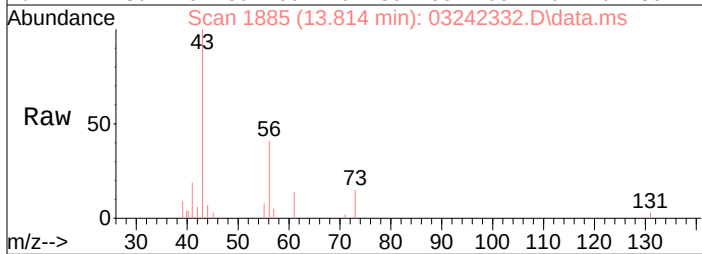
Tgt Ion: 43 Resp: 9366
Ion Ratio Lower Upper
43 100
58 34.4 34.5 74.5#





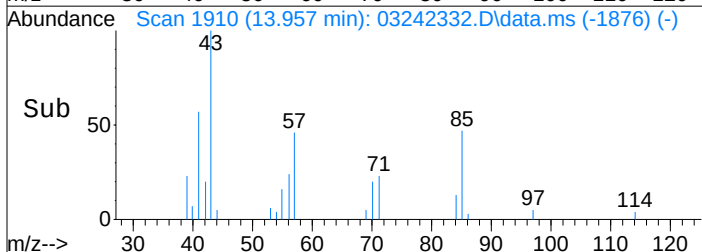
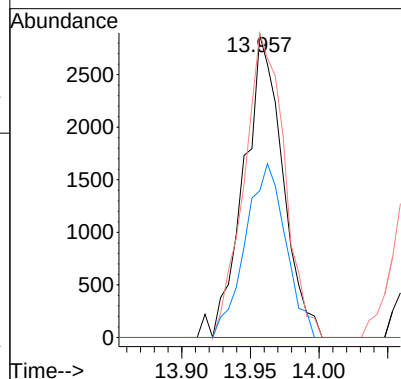
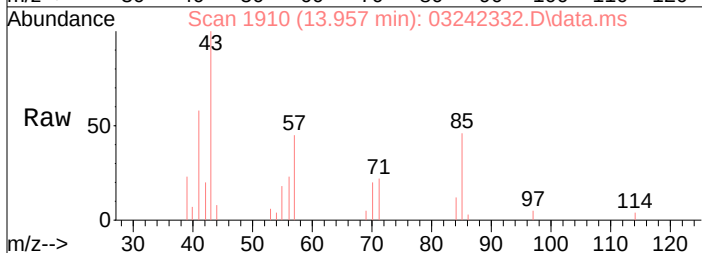
#62
 n-Butyl Acetate
 Concen: 0.30 ng
 RT: 13.81 min Scan# 1885
 Delta R.T. -0.006 min
 Lab File: 03242332.D
 Acq: 25 Mar 2023 1:15

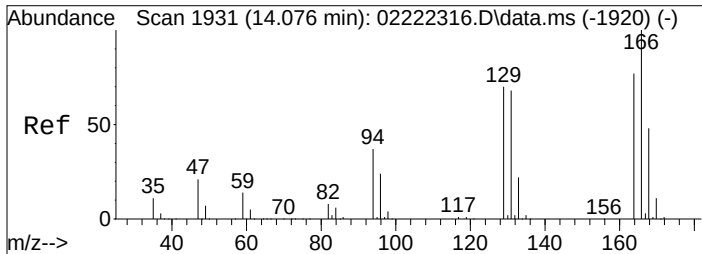
Tgt Ion: 43	Resp: 15792
Ion Ratio	Lower Upper
43	100
56	41.0 20.0 60.0
73	15.0 0.0 33.2



#63
 n-Octane
 Concen: 0.30 ng
 RT: 13.96 min Scan# 1910
 Delta R.T. -0.006 min
 Lab File: 03242332.D
 Acq: 25 Mar 2023 1:15

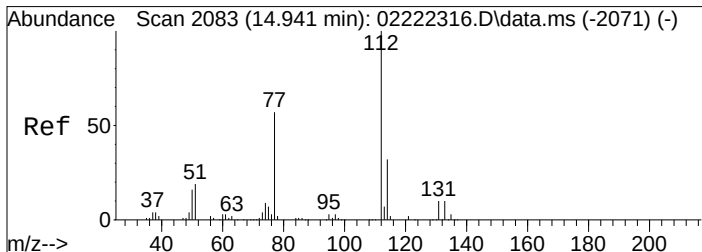
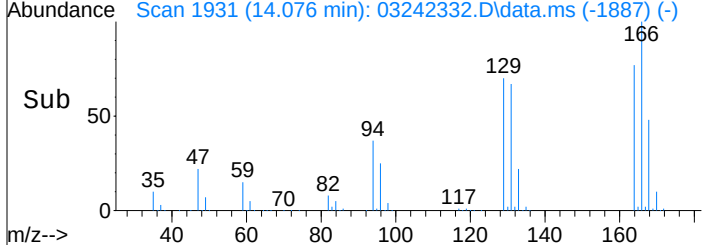
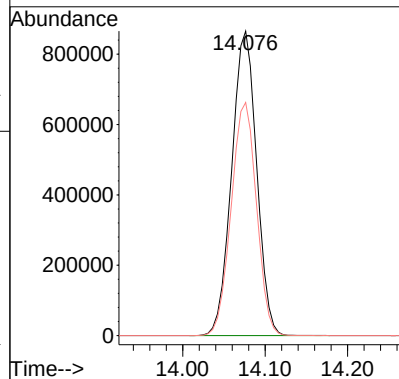
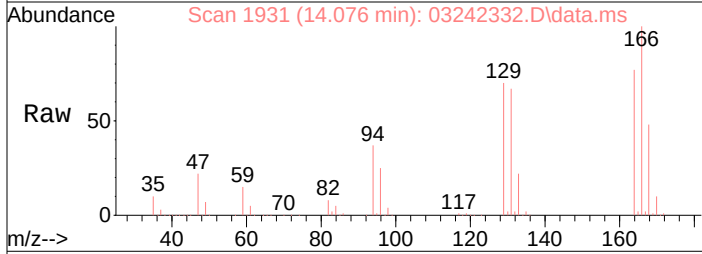
Tgt Ion: 57	Resp: 5688
Ion Ratio	Lower Upper
57	100
85	103.9 94.1 141.1
71	59.2 52.6 79.0





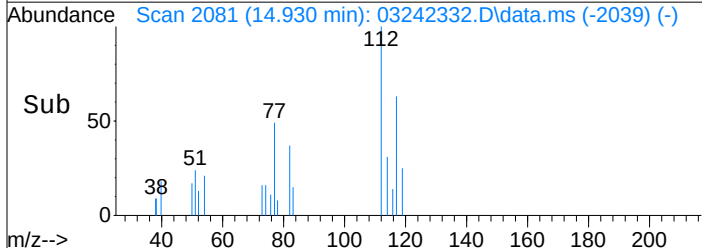
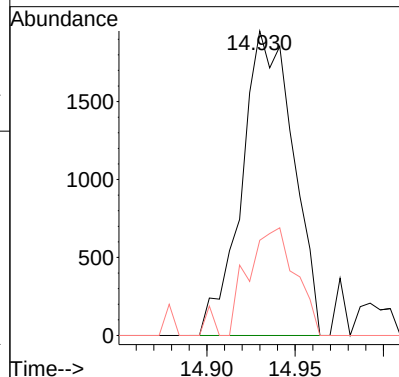
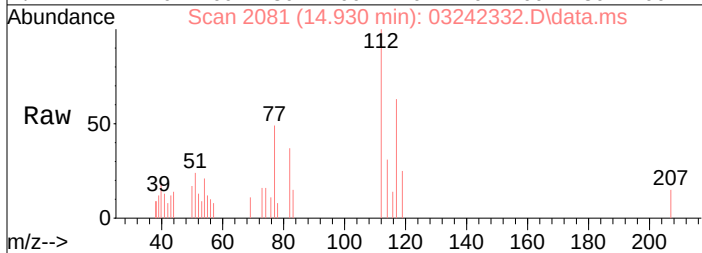
#64
Tetrachloroethene
Concen: 62.05 ng
RT: 14.08 min Scan# 1931
Delta R.T. 0.000 min
Lab File: 03242332.D
Acq: 25 Mar 2023 1:15

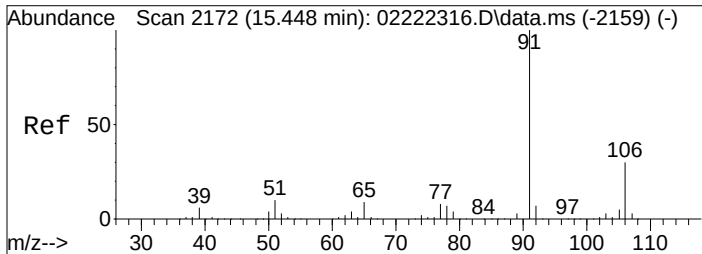
Tgt Ion:166 Resp: 1820214
Ion Ratio Lower Upper
166 100
164 77.6 57.3 97.3



#65
Chlorobenzene
Concen: 0.06 ng
RT: 14.93 min Scan# 2081
Delta R.T. -0.011 min
Lab File: 03242332.D
Acq: 25 Mar 2023 1:15

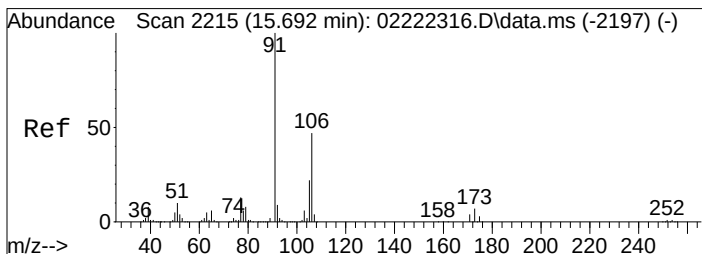
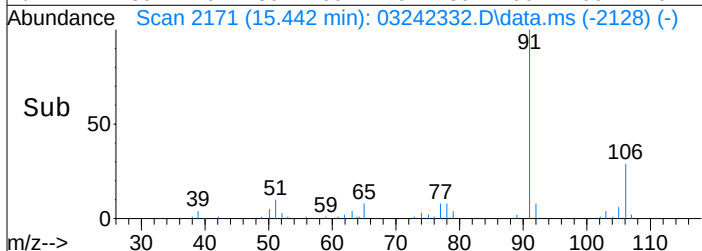
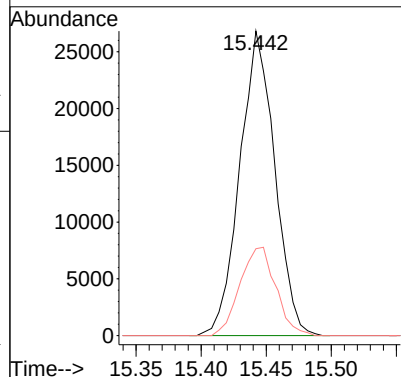
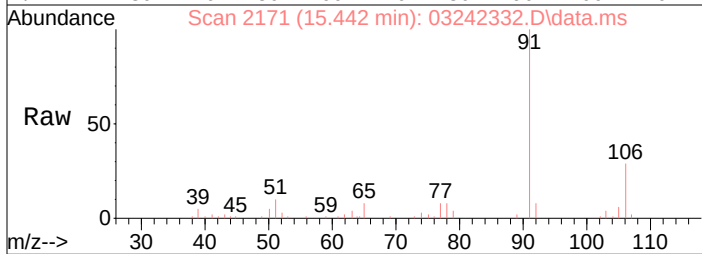
Tgt Ion:112 Resp: 3963
Ion Ratio Lower Upper
112 100
114 32.5 12.1 52.1





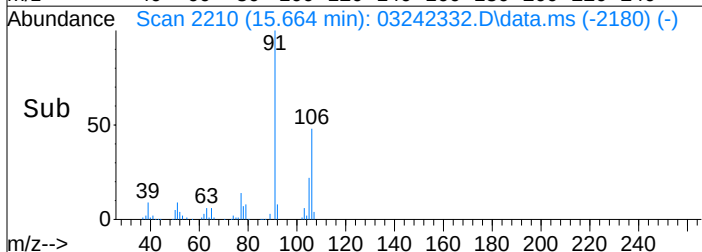
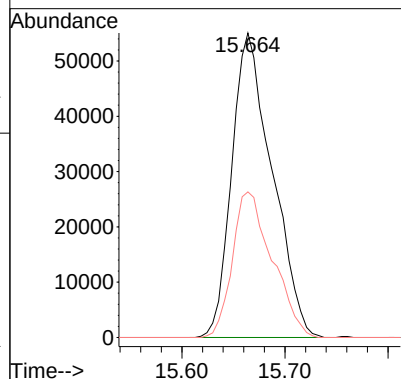
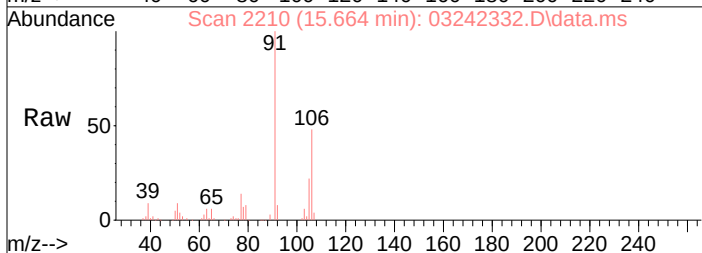
#66
 Ethylbenzene
 Concen: 0.44 ng
 RT: 15.44 min Scan# 2171
 Delta R.T. -0.006 min
 Lab File: 03242332.D
 Acq: 25 Mar 2023 1:15

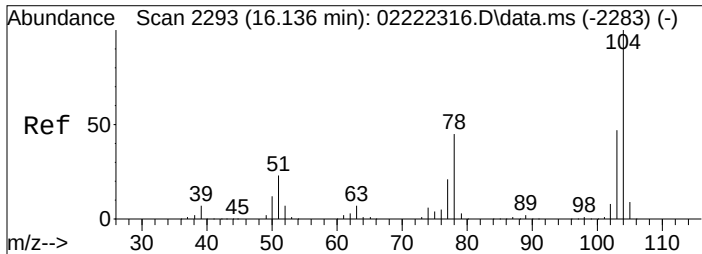
Tgt Ion	91	106	Resp	50116
Ion Ratio	100	29.7	Lower	Upper
		10.4		50.4



#67
 m- & p-Xylenes
 Concen: 1.62 ng
 RT: 15.66 min Scan# 2210
 Delta R.T. -0.028 min
 Lab File: 03242332.D
 Acq: 25 Mar 2023 1:15

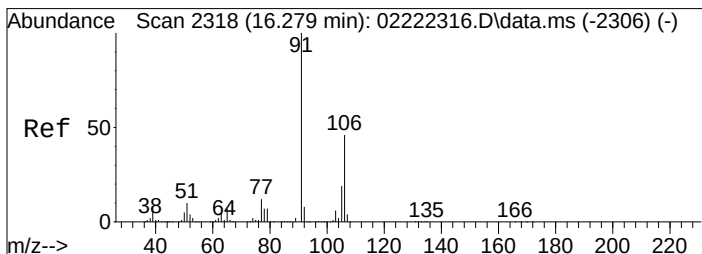
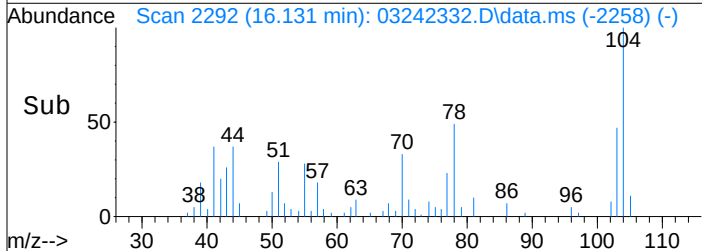
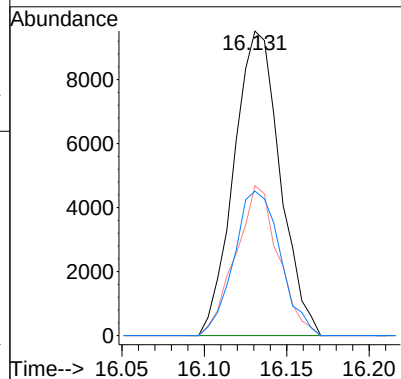
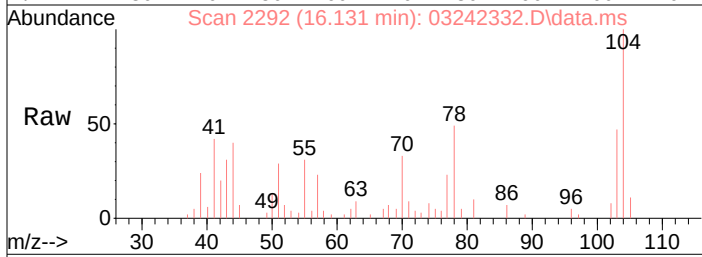
Tgt Ion	91	106	Resp	149610
Ion Ratio <td>100</td> <td>47.2</td> <td>Lower</td> <td>Upper</td>	100	47.2	Lower	Upper
		26.2		66.2





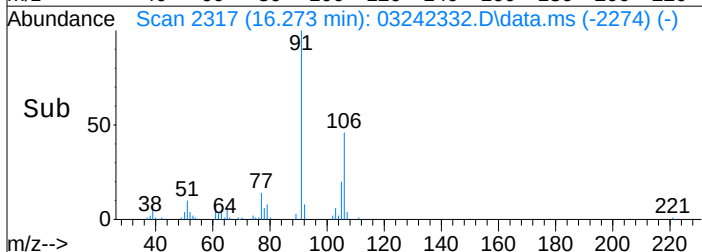
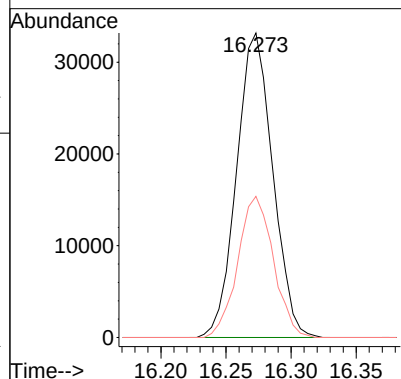
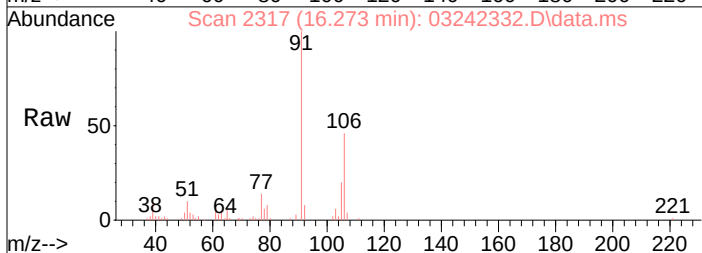
#69
Styrene
Concen: 0.29 ng
RT: 16.13 min Scan# 2292
Delta R.T. -0.006 min
Lab File: 03242332.D
Acq: 25 Mar 2023 1:15

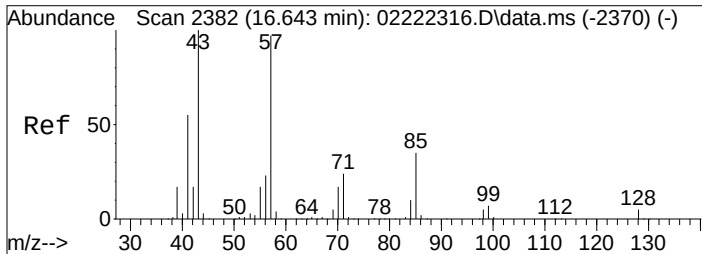
Tgt Ion: 104	Resp: 18533
Ion Ratio	Lower Upper
104 100	
78 45.6	24.7 64.7
103 47.6	27.8 67.8



#70
o-Xylene
Concen: 0.72 ng
RT: 16.27 min Scan# 2317
Delta R.T. -0.006 min
Lab File: 03242332.D
Acq: 25 Mar 2023 1:15

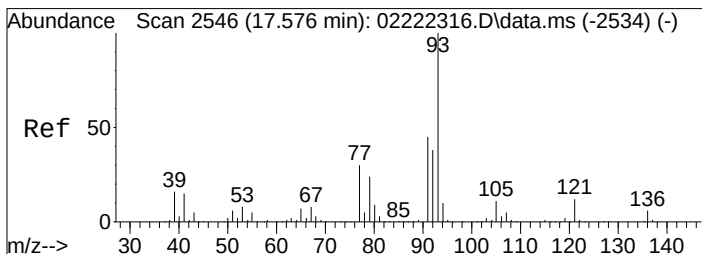
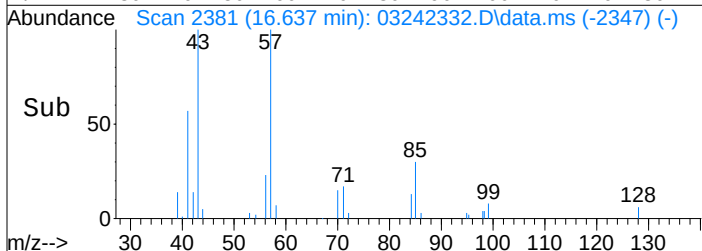
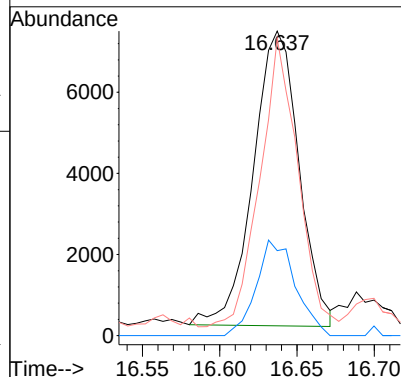
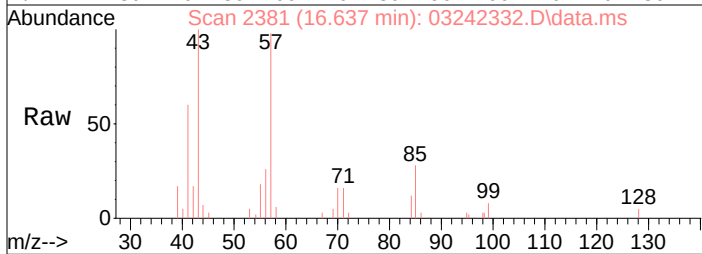
Tgt Ion: 91	Resp: 64060
Ion Ratio	Lower Upper
91 100	
106 45.7	25.4 65.4





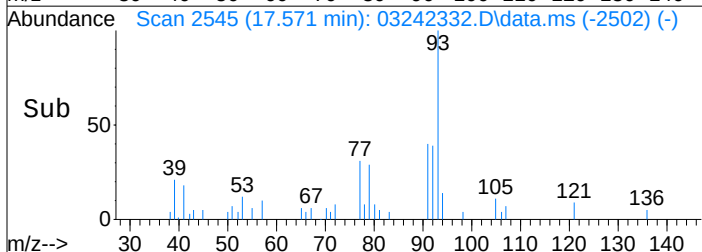
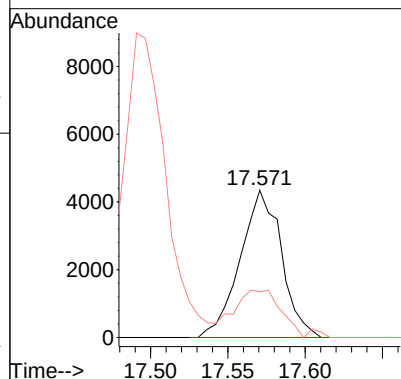
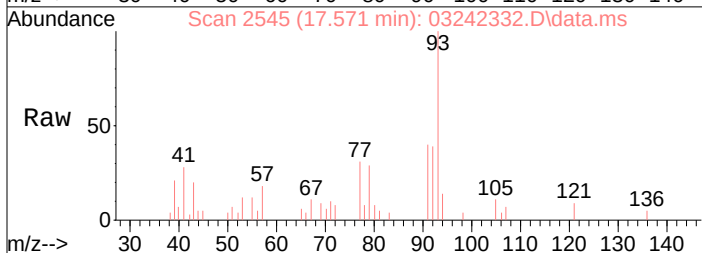
#71
n-Nonane
Concen: 0.35 ng
RT: 16.64 min Scan# 2381
Delta R.T. -0.006 min
Lab File: 03242332.D
Acq: 25 Mar 2023 1:15

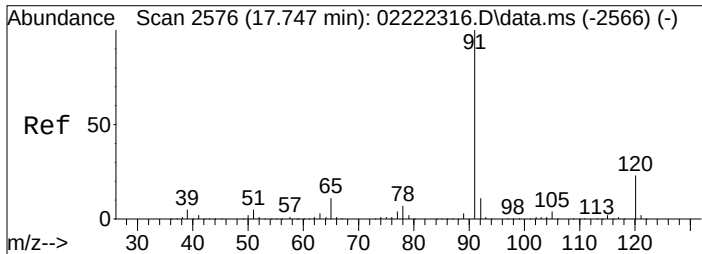
Tgt Ion:	43	Resp:	15009
Ion Ratio		Lower	Upper
43	100		
57	84.0	74.2	114.2
85	27.6	14.2	54.2



#75
alpha-Pinene
Concen: 0.16 ng
RT: 17.57 min Scan# 2545
Delta R.T. -0.006 min
Lab File: 03242332.D
Acq: 25 Mar 2023 1:15

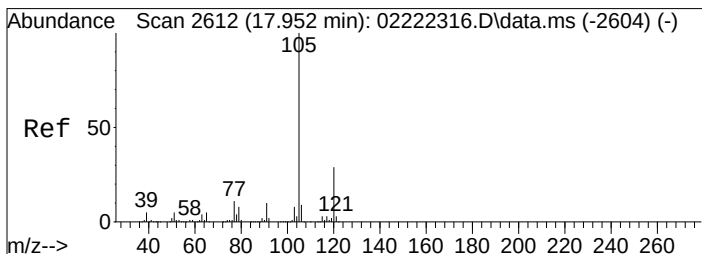
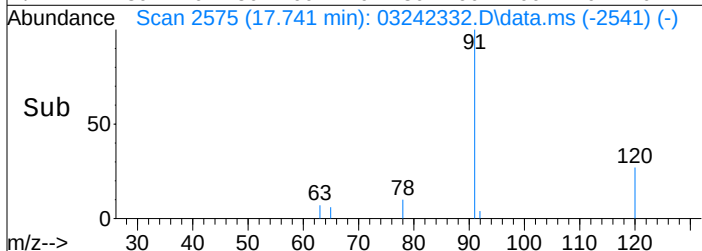
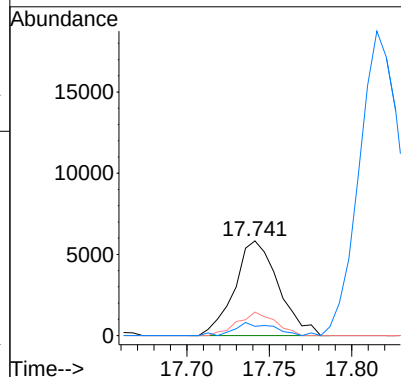
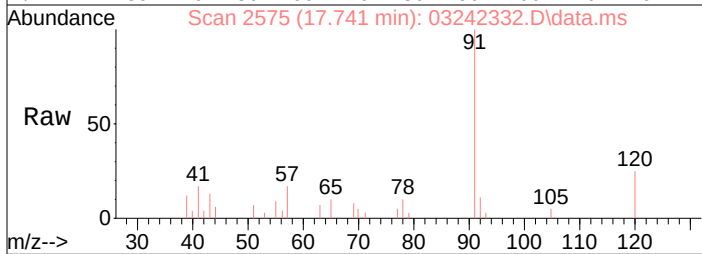
Tgt Ion:	93	Resp:	8101
Ion Ratio		Lower	Upper
93	100		
77	36.2	11.1	51.1





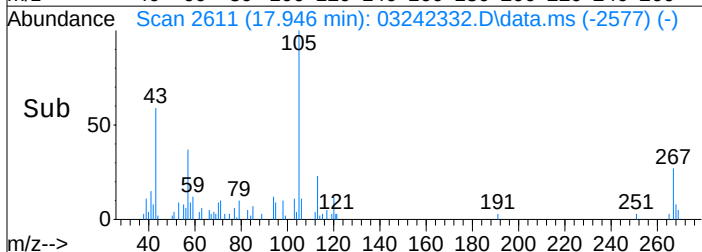
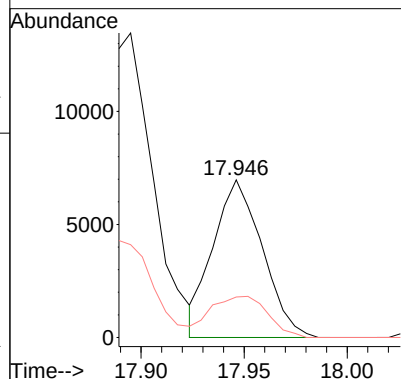
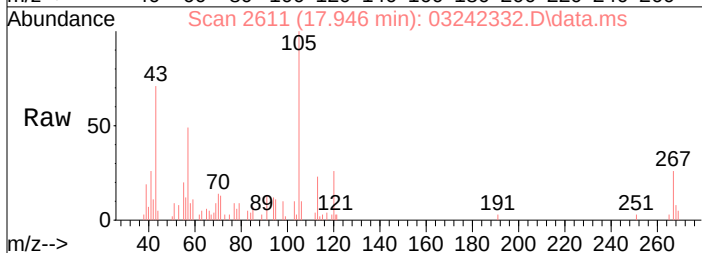
#76
 n-Propylbenzene
 Concen: 0.08 ng
 RT: 17.74 min Scan# 2575
 Delta R.T. -0.006 min
 Lab File: 03242332.D
 Acq: 25 Mar 2023 1:15

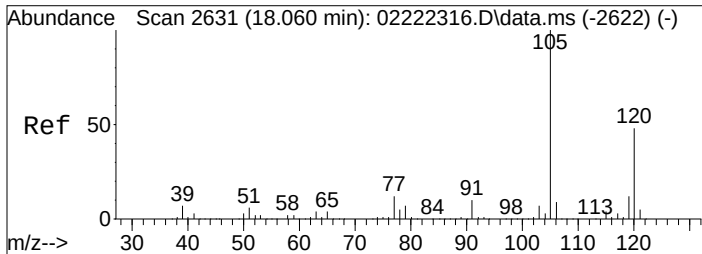
Tgt Ion:	91	Resp:	10760
Ion Ratio		Lower	Upper
91	100		
120	21.4	2.7	42.7
65	12.0	0.0	30.7



#78
 4-Ethyltoluene
 Concen: 0.11 ng
 RT: 17.95 min Scan# 2611
 Delta R.T. -0.006 min
 Lab File: 03242332.D
 Acq: 25 Mar 2023 1:15

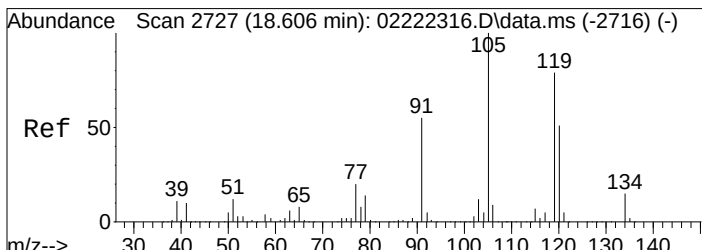
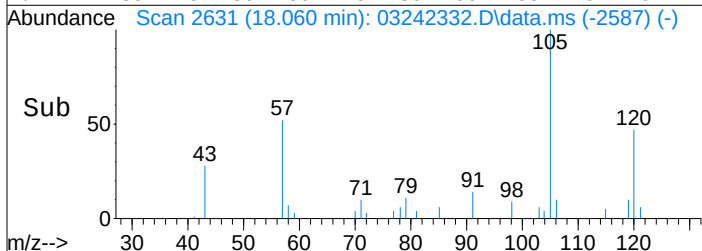
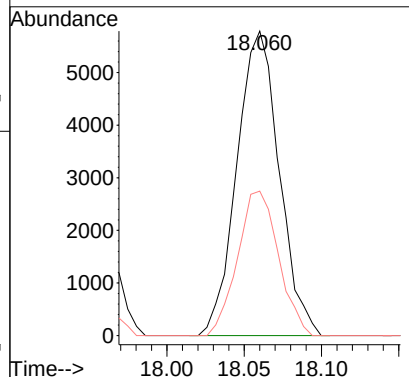
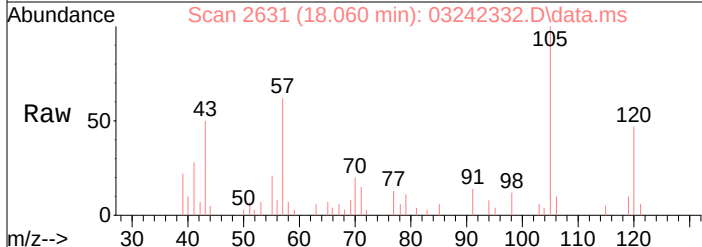
Tgt Ion:	105	Resp:	11595
Ion Ratio		Lower	Upper
105	100		
120	30.3	9.1	49.1





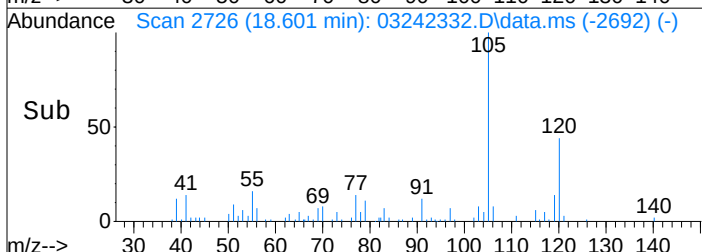
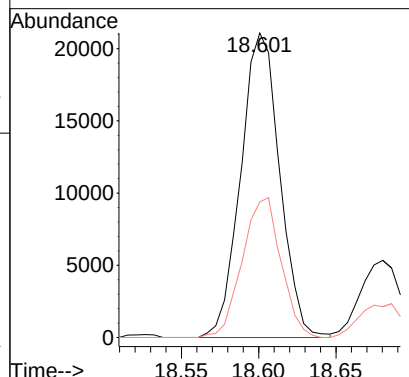
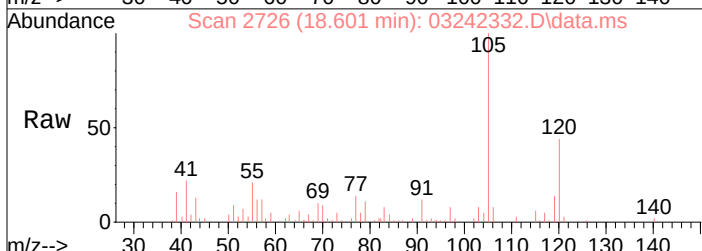
#79
 1,3,5-Trimethylbenzene
 Concen: 0.12 ng
 RT: 18.06 min Scan# 2631
 Delta R.T. 0.000 min
 Lab File: 03242332.D
 Acq: 25 Mar 2023 1:15

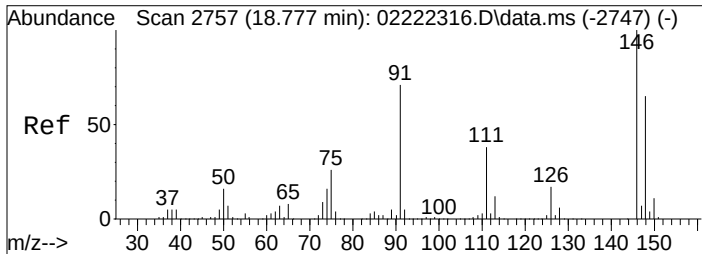
Tgt Ion:	105	Resp:	11064
Ion Ratio		Lower	Upper
105	100		
120	45.8	28.4	68.4



#82
 1,2,4-Trimethylbenzene
 Concen: 0.41 ng
 RT: 18.60 min Scan# 2726
 Delta R.T. -0.006 min
 Lab File: 03242332.D
 Acq: 25 Mar 2023 1:15

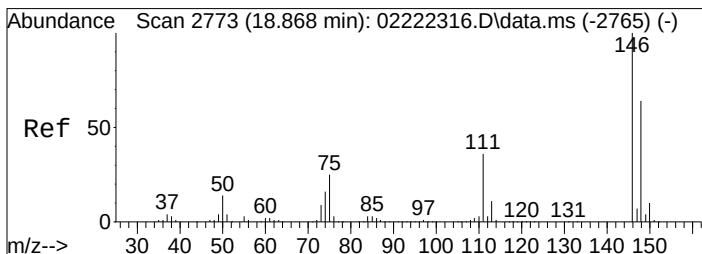
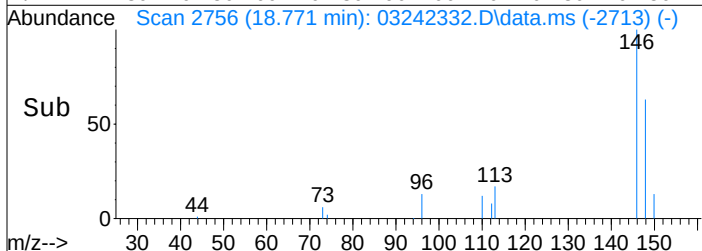
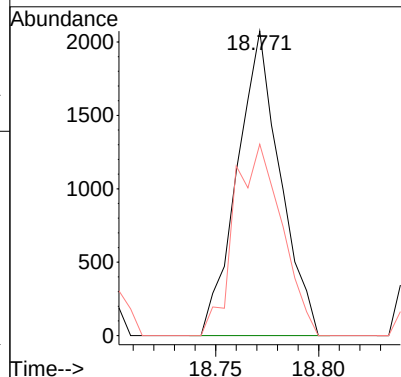
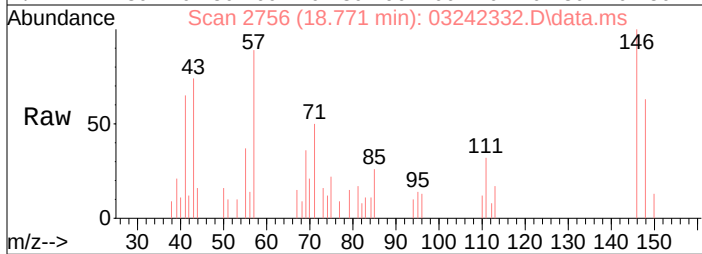
Tgt Ion:	105	Resp:	36998
Ion Ratio		Lower	Upper
105	100		
120	45.6	32.8	72.8





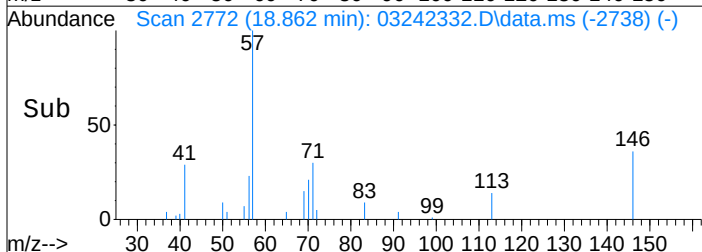
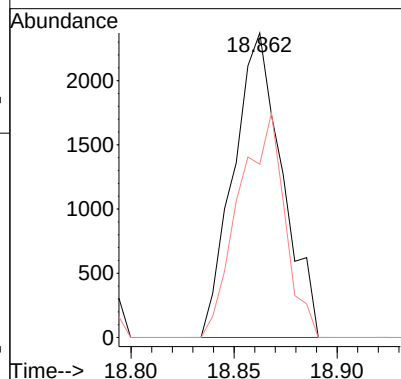
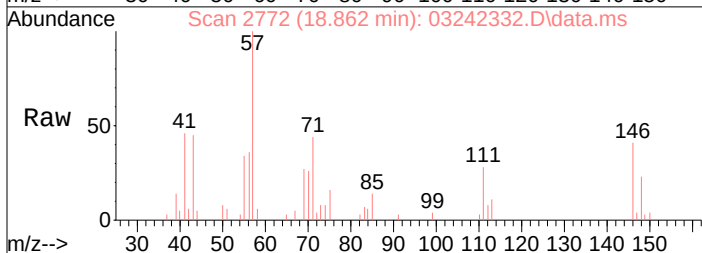
#85
 1,3-Dichlorobenzene
 Concen: 0.06 ng
 RT: 18.77 min Scan# 2756
 Delta R.T. -0.006 min
 Lab File: 03242332.D
 Acq: 25 Mar 2023 1:15

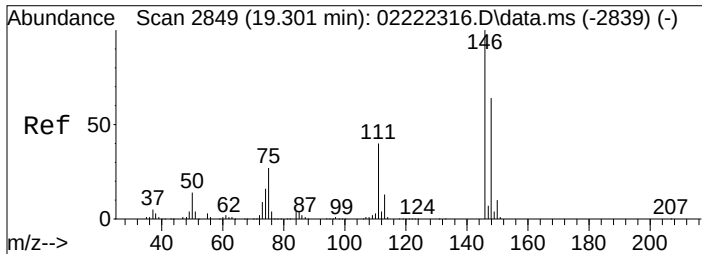
Tgt Ion	Ratio	Resp	Lower	Upper
146	100	3003		
148	70.1	44.4		84.4



#86
 1,4-Dichlorobenzene
 Concen: 0.07 ng
 RT: 18.86 min Scan# 2772
 Delta R.T. -0.006 min
 Lab File: 03242332.D
 Acq: 25 Mar 2023 1:15

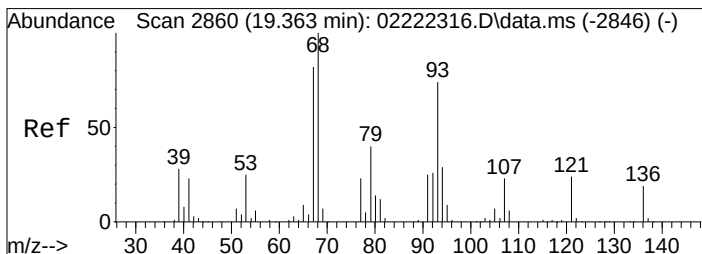
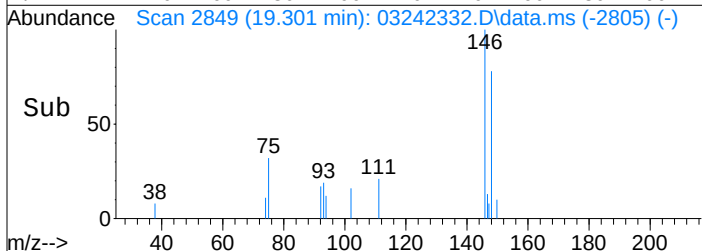
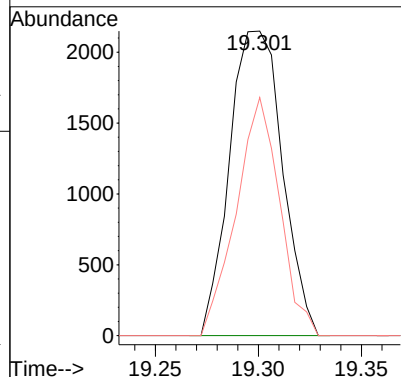
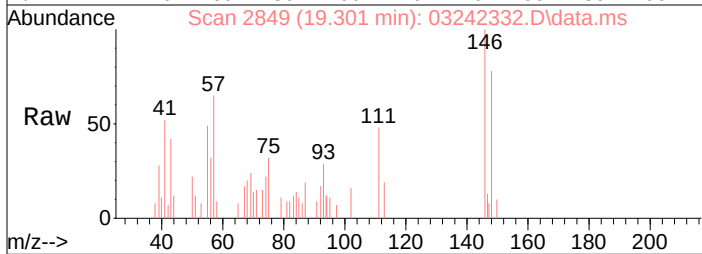
Tgt Ion	Ratio	Resp	Lower	Upper
146	100	3898		
148	69.2	44.7		84.7





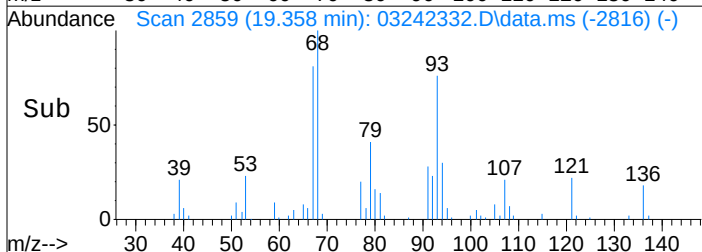
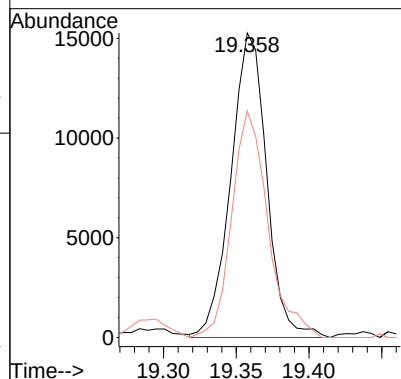
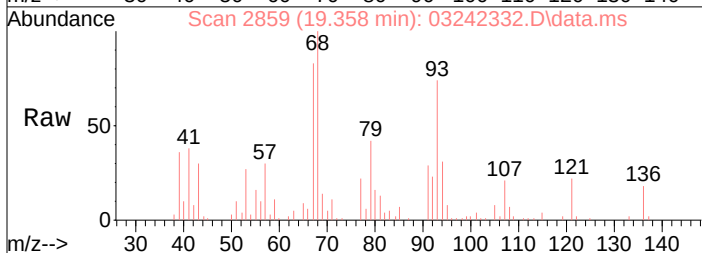
#90
 1,2-Dichlorobenzene
 Concen: 0.07 ng
 RT: 19.30 min Scan# 2849
 Delta R.T. 0.000 min
 Lab File: 03242332.D
 Acq: 25 Mar 2023 1:15

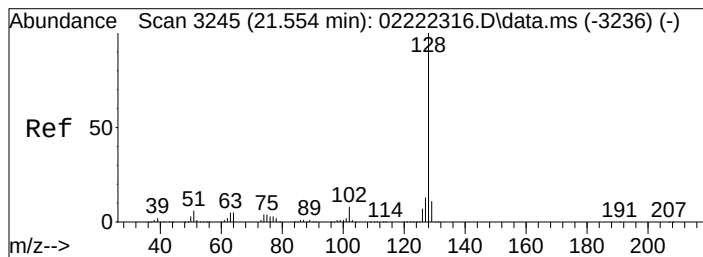
Tgt Ion	Ratio	Resp	Lower	Upper
146	100	3829		
148	64.3	44.4		84.4



#91
 d-Limonene
 Concen: 0.86 ng
 RT: 19.36 min Scan# 2859
 Delta R.T. -0.006 min
 Lab File: 03242332.D
 Acq: 25 Mar 2023 1:15

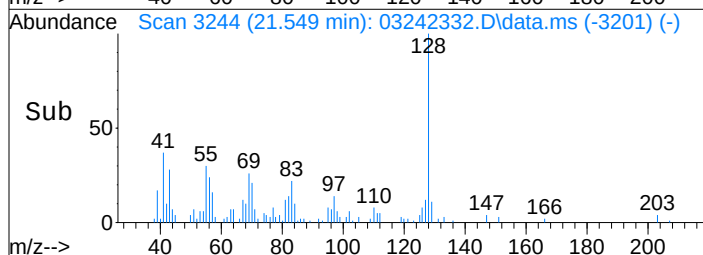
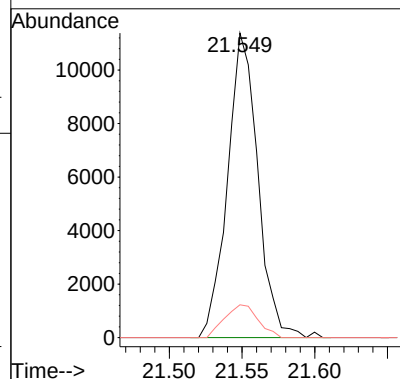
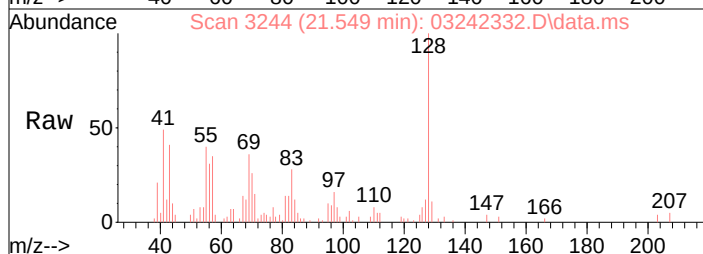
Tgt Ion	Ratio	Resp	Lower	Upper
68	100	26162		
93	74.9	54.8		94.8





#95
 Naphthalene
 Concen: 0.17 ng
 RT: 21.55 min Scan# 3244
 Delta R.T. -0.006 min
 Lab File: 03242332.D
 Acq: 25 Mar 2023 1:15

Tgt Ion:128 Resp: 16531
 Ion Ratio Lower Upper
 128 100
 129 11.9 0.0 30.9



Data File : I:\MS13\DATA\2023_03\24\03242332.D
 Acq On : 25 Mar 2023 1:15
 Sample : P2301250-026 (1000mL)
 Misc : S35-01202301

Vial: 15
 Operator: TZ
 Inst : MS13

TZ 3/28/23

Quant Time: Mar 28 10:14:00 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.32	130	234131	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	9.38	114	1049668	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	14.88	54	196951	12.500	ng	0.00

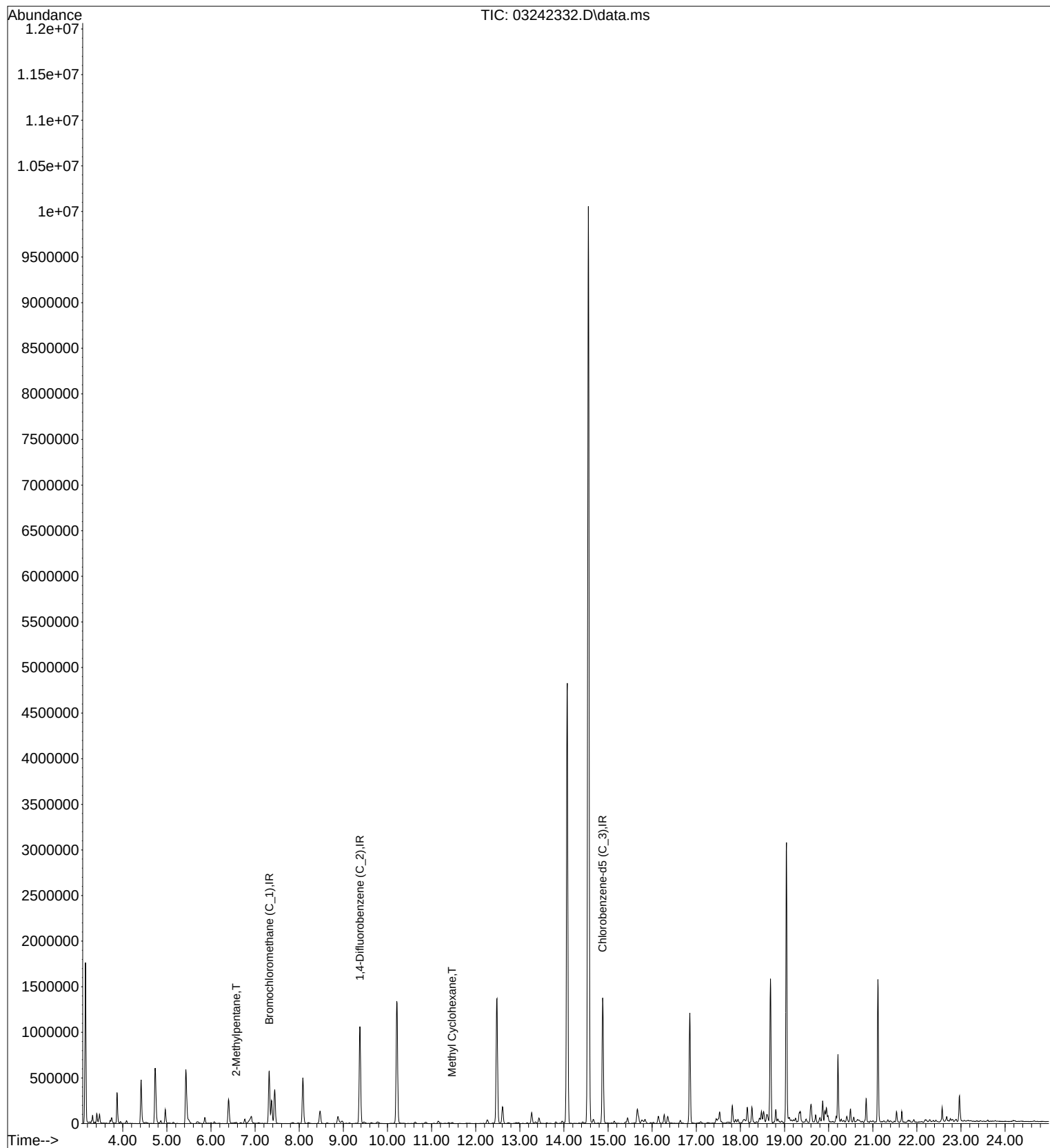
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.25	85	882	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	0.00	83	0	N.D.	d	
4) 1,1-Difluoroethane	0.00	65	0	N.D.		
5) Chlorodifluoromethane ...	0.00	67	0	N.D.	d	
6) 1-Chloro-1,1-Difluoroe...	3.60	65	1849	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	0.00	43	0	N.D.	d	
12) 2-Methylpentane	6.58	71	2930	0.179	ng	# 1
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	9.15	84	842	N.D.		
17) 2,3-Dimethylpentane	9.59	56	1326	N.D.		
18) Dibromomethane	9.88	174	388	N.D.		
20) Methyl Cyclohexane	11.46	55	4095	0.125	ng	# 73
21) 1,3-Dichloropropane	12.61	76	680	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	15.23	91	360	N.D.		
24) 1,2,3-Trichloropropane	0.00	75	0	N.D.	d	
25) Bromobenzene	17.13	77	56	N.D.		
26) 2-Chlorotoluene	17.66	91	120	N.D.		
27) 4-Chlorotoluene	0.00	91	0	N.D.	d	
28) Indane	19.40	117	4433	N.D.		
29) Indene	19.51	115	1571	N.D.		
30) 1,2,4,5-Tetramethylben...	20.70	119	4731	N.D.		
31) 1,2,3,4-Tetramethylben...	20.70	119	4731	N.D.		
32) 1,2,3,5-Tetramethylben...	0.00	119	0	N.D.	d	
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242332.D
Acq On : 25 Mar 2023 1:15
Sample : P2301250-026 (1000mL)
Misc : S35-01202301

Vial: 15
Operator: TZ
Inst : MS13

Quant Time: Mar 28 10:14:00 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: SS-031523A

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-027

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01009

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -3.42 Final Pressure (psig): 3.90

Container Dilution Factor: 1.65

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	0.87	0.14	0.49	0.18	0.029	
74-87-3	Chloromethane	ND	0.35	0.14	ND	0.17	0.069	
75-01-4	Vinyl Chloride	ND	0.18	0.094	ND	0.071	0.037	
74-83-9	Bromomethane	ND	0.35	0.12	ND	0.089	0.031	
75-00-3	Chloroethane	ND	0.35	0.11	ND	0.13	0.041	
67-64-1	Acetone	84	8.7	2.0	36	3.7	0.83	
75-69-4	Trichlorofluoromethane	1.1	0.86	0.13	0.20	0.15	0.024	
75-35-4	1,1-Dichloroethene	ND	0.18	0.12	ND	0.046	0.031	
75-09-2	Methylene Chloride	2.5	0.87	0.25	0.73	0.25	0.071	
76-13-1	Trichlorotrifluoroethane	0.56	0.89	0.13	0.073	0.12	0.016	J
75-15-0	Carbon Disulfide	2.4	1.8	0.26	0.77	0.57	0.085	
156-60-5	trans-1,2-Dichloroethene	ND	0.18	0.12	ND	0.046	0.031	
75-34-3	1,1-Dichloroethane	2.6	0.18	0.13	0.64	0.045	0.032	
1634-04-4	Methyl tert-Butyl Ether	ND	0.89	0.10	ND	0.25	0.029	
78-93-3	2-Butanone (MEK)	3.5	1.7	0.18	1.2	0.58	0.062	
156-59-2	cis-1,2-Dichloroethene	0.93	0.18	0.12	0.23	0.046	0.031	
67-66-3	Chloroform	26	0.18	0.12	5.2	0.037	0.024	
107-06-2	1,2-Dichloroethane	ND	0.18	0.097	ND	0.045	0.024	
71-55-6	1,1,1-Trichloroethane	61	0.18	0.11	11	0.033	0.020	
71-43-2	Benzene	0.30	0.18	0.13	0.092	0.057	0.040	
56-23-5	Carbon Tetrachloride	0.57	0.18	0.12	0.091	0.029	0.019	
110-82-7	Cyclohexane	0.60	1.7	0.25	0.17	0.50	0.072	J
78-87-5	1,2-Dichloropropane	ND	0.18	0.11	ND	0.039	0.024	
75-27-4	Bromodichloromethane	1.7	0.18	0.13	0.25	0.027	0.019	
79-01-6	Trichloroethene	200	1.8	1.2	37	0.34	0.22	D

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: SS-031523A

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-027

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01009

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -3.42 Final Pressure (psig): 3.90

Container Dilution Factor: 1.65

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.89	0.14	ND	0.20	0.030	
108-10-1	4-Methyl-2-pentanone	1.2	1.8	0.12	0.30	0.44	0.029	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.84	0.18	ND	0.19	0.040	
79-00-5	1,1,2-Trichloroethane	ND	0.18	0.089	ND	0.033	0.016	
108-88-3	Toluene	4.3	0.87	0.11	1.1	0.23	0.028	
591-78-6	2-Hexanone	0.57	1.8	0.11	0.14	0.44	0.027	J
124-48-1	Dibromochloromethane	ND	0.18	0.12	ND	0.021	0.014	
106-93-4	1,2-Dibromoethane	ND	0.18	0.10	ND	0.024	0.013	
127-18-4	Tetrachloroethene	48	0.18	0.11	7.0	0.027	0.017	
108-90-7	Chlorobenzene	ND	0.87	0.12	ND	0.19	0.025	
100-41-4	Ethylbenzene	0.98	0.87	0.12	0.23	0.20	0.029	
179601-23-1	m,p-Xylenes	3.5	1.8	0.23	0.81	0.42	0.053	
75-25-2	Bromoform	ND	0.89	0.18	ND	0.086	0.018	
100-42-5	Styrene	0.40	0.87	0.14	0.095	0.21	0.033	J
95-47-6	o-Xylene	1.2	0.87	0.13	0.27	0.20	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.18	0.12	ND	0.026	0.018	
98-82-8	Cumene	0.13	0.89	0.13	0.027	0.18	0.026	J
541-73-1	1,3-Dichlorobenzene	ND	0.87	0.13	ND	0.15	0.022	
106-46-7	1,4-Dichlorobenzene	ND	0.87	0.14	ND	0.15	0.023	
95-50-1	1,2-Dichlorobenzene	ND	0.89	0.13	ND	0.15	0.022	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.8	0.17	ND	0.19	0.017	
120-82-1	1,2,4-Trichlorobenzene	ND	1.8	0.21	ND	0.24	0.029	
79-20-9	Methyl Acetate	ND	0.83	0.40	ND	0.27	0.13	X
108-87-2	Methylcyclohexane	1.2	0.83	0.43	0.29	0.21	0.11	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS13\DATA\2023_03\27\03272312.D
 Acq On : 27 Mar 2023 10:23
 Sample : P2301250-027 (1000mL)
 Misc : S35-01202301

Vial: 2
 Operator: TZ
 Inst : MS13

TZ 3/28/23

Quant Time: Mar 28 11:02:23 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	228976	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	9.38	114	1007645	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.87	54	196210	12.500	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	393951	12.965	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	103.68%
57) Toluene-d8 (SS2)	12.48	98	1144974	11.347	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	90.80%
73) Bromofluorobenzene (SS3)	16.85	174	433037	11.717	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.76%

Target Compounds

						Qvalue
2) Propene	3.39	42	15449m	0.675	ng	
3) Dichlorodifluoromethan...	3.46	85	61042	1.455	ng	99
4) Chloromethane	3.56	50	1451	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	3.71	135	1379	0.065	ng	85
6) Vinyl Chloride	3.79	62	1498	0.053	ng	99
7) 1,3-Butadiene	0.00	54	0	N.D.	d	
8) Bromomethane	4.12	94	290	N.D.		
9) Chloroethane	4.26	64	398	N.D.		
10) Ethanol	4.42	45	863843	53.120	ng	100
11) Acetonitrile	0.00	41	0	N.D.	d	
12) Acrolein	4.63	56	2929	0.218	ng	86
13) Acetone	4.73	58	709792	51.141	ng	99
14) Trichlorofluoromethane	4.86	101	26149	0.693	ng	99
15) 2-Propanol (Isopropanol)	4.96	45	330349	5.896	ng	95
16) Acrylonitrile	5.10	53	630	N.D.		
17) 1,1-Dichloroethene	5.36	96	435	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.45	84	31139	1.530	ng	90
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	5.68	151	6735	0.339	ng	96
22) Carbon Disulfide	5.70	76	116457	1.445	ng	100
23) trans-1,2-Dichloroethene	6.23	61	1920	0.065	ng	90
24) 1,1-Dichloroethane	6.41	63	56623	1.564	ng	98
25) Methyl tert-Butyl Ether	6.47	73	2417	N.D.		
26) Vinyl Acetate	6.54	86	2544	0.678	ng	# 53
27) 2-Butanone (MEK)	6.77	72	26318	2.136	ng	# 86
28) cis-1,2-Dichloroethene	7.17	61	16472	0.563	ng	95
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	7.37	61	89447	11.040	ng	92
31) n-Hexane	7.38	57	6815	0.219	ng	98
32) Chloroform	7.45	83	570777	15.472	ng	100
34) Tetrahydrofuran (THF)	7.86	72	2711	0.214	ng	# 80
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.19	62	122	N.D.		
38) 1,1,1-Trichloroethane	8.47	97	1229532	36.865	ng	100
39) Isopropyl Acetate	9.38	61	28675	No Calib		
40) 1-Butanol	8.87	56	50097	No Calib	#	
41) Benzene	8.97	78	13996	0.179	ng	98
42) Carbon Tetrachloride	9.14	117	10248	0.348	ng	98
43) Cyclohexane	9.28	84	10411	0.362	ng	88
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	10.14	83	29209	1.008	ng	97
47) Trichloroethene	10.22	130	2709657	117.992	ng	100
48) 1,4-Dioxane	0.00	88	0	N.D.	d	
49) 2,2,4-Trimethylpentane...	10.29	57	3037	N.D.		
50) Methyl Methacrylate	10.46	100	143	N.D.		

Data File : I:\MS13\DATA\2023_03\27\03272312.D
 Acq On : 27 Mar 2023 10:23
 Sample : P2301250-027 (1000mL)
 Misc : S35-01202301

Vial: 2
 Operator: TZ
 Inst : MS13

Quant Time: Mar 28 11:02:23 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

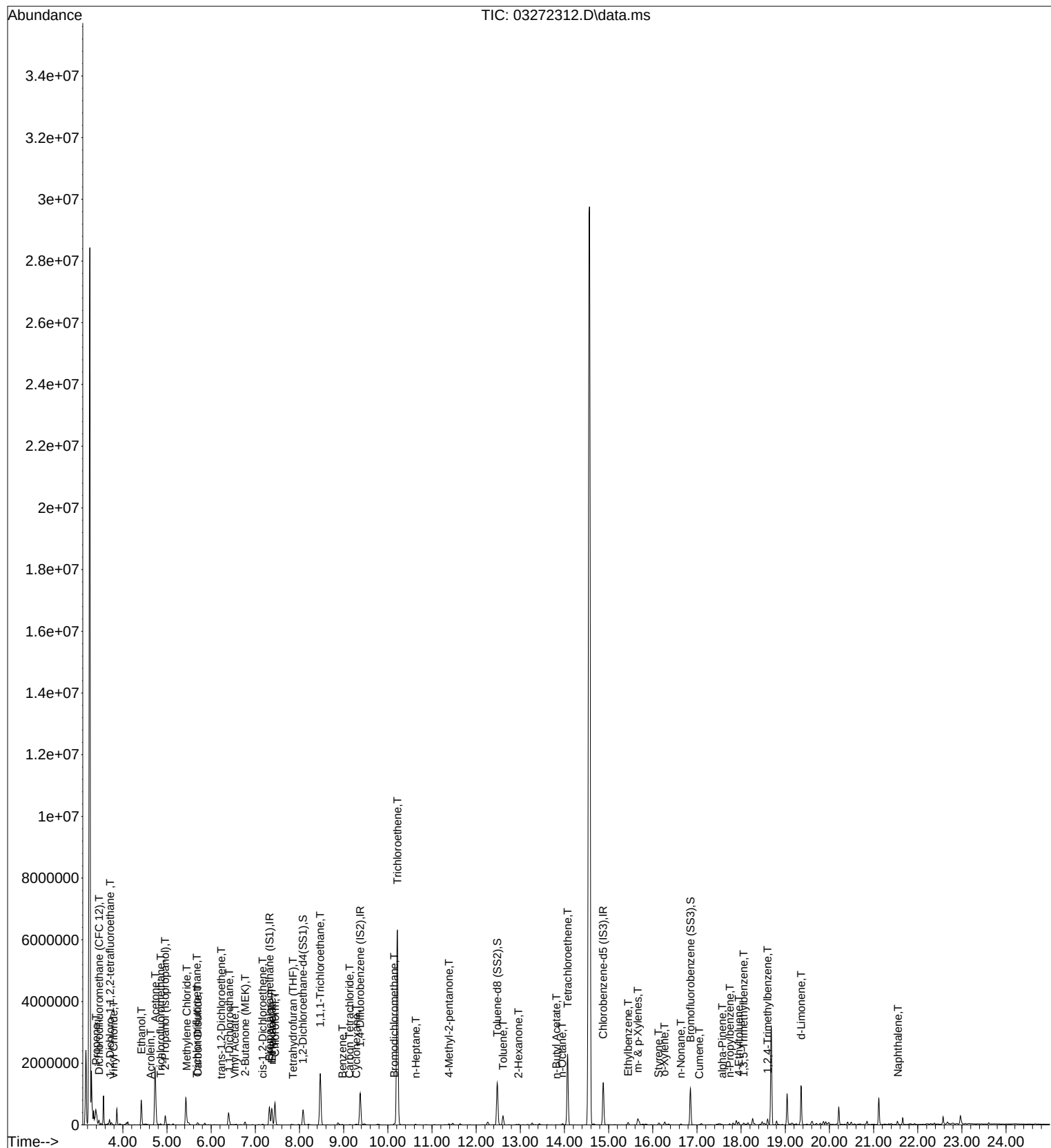
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.63	71	6434	0.339	ng	94
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.38	58	12701	0.752	ng	91
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.61	91	248075	2.582	ng	100
59) 2-Hexanone	12.96	43	16145	0.346	ng	84
60) Dibromochloromethane	13.12	129	567	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.81	43	9714	0.183	ng	99
63) n-Octane	13.95	57	8137	0.431	ng	89
64) Tetrachloroethene	14.07	166	843930	28.879	ng	100
65) Chlorobenzene	14.94	112	1347	N.D.		
66) Ethylbenzene	15.44	91	68057	0.594	ng	100
67) m- & p-Xylenes	15.66	91	197037	2.136	ng	99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.13	104	15449	0.244	ng	93
70) o-Xylene	16.27	91	63232	0.717	ng	100
71) n-Nonane	16.64	43	12729	0.298	ng	97
72) 1,1,2,2-Tetrachloroethane	16.23	83	122	N.D.		
74) Cumene	17.05	105	8423	0.079	ng	99
75) alpha-Pinene	17.58	93	5831	0.118	ng	96
76) n-Propylbenzene	17.74	91	32423	0.252	ng	98
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	52812	0.513	ng	98
79) 1,3,5-Trimethylbenzene	18.06	105	30517	0.335	ng	98
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.60	105	104019	1.159	ng	90
83) n-Decane	17.12	58	1341	No Calib	#	
84) Benzyl Chloride	18.75	91	1005	N.D.		
85) 1,3-Dichlorobenzene	18.78	146	1729	N.D.		
86) 1,4-Dichlorobenzene	18.86	146	1744	N.D.		
87) sec-Butylbenzene	18.96	105	1876	N.D.		
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.	d	
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.30	146	1439	N.D.		
91) d-Limonene	19.36	68	298782	9.848	ng	100
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.26	58	4921	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	1510	N.D.		
95) Naphthalene	21.55	128	15714	0.162	ng	97
96) n-Dodecane	19.14	58	1571	No Calib	#	
97) Hexachlorobutadiene	21.98	225	326	N.D.		
98) Cyclohexanone	15.69	55	2305	No Calib	#	
99) tert-Butylbenzene	0.00	119	0	N.D.	d	
100) n-Butylbenzene	0.00	91	0	N.D.	d	
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\27\03272312.D
Acq On : 27 Mar 2023 10:23
Sample : P2301250-027 (1000mL)
Misc : S35-01202301

Vial: 2
Operator: TZ
Inst : MS13

Quant Time: Mar 28 11:02:23 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\27\03272312.D
 Acq On : 27 Mar 2023 10:23
 Sample : P2301250-027 (1000mL)
 Misc : S35-01202301

Vial: 2
 Operator: TZ
 Inst : MS13

TZ 3/28/23

Quant Time: Mar 28 11:02:23 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	228976	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	9.38	114	1007645	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.87	54	196210	12.500	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	393951	12.965	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	103.68%
57) Toluene-d8 (SS2)	12.48	98	1144974	11.347	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	90.80%
73) Bromofluorobenzene (SS3)	16.85	174	433037	11.717	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.76%

Target Compounds

						Qvalue
2) Propene	3.39	42	15449m	0.675	ng	
3) Dichlorodifluoromethan...	3.46	85	61042	1.455	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	3.71	135	1379	0.065	ng	85
6) Vinyl Chloride	3.79	62	1498	0.053	ng	99
10) Ethanol	4.42	45	863843	53.120	ng	100
12) Acrolein	4.63	56	2929	0.218	ng	86
13) Acetone	4.73	58	709792	51.141	ng	99
14) Trichlorofluoromethane	4.86	101	26149	0.693	ng	99
15) 2-Propanol (Isopropanol)	4.96	45	330349	5.896	ng	95
19) Methylene Chloride	5.45	84	31139	1.530	ng	90
21) Trichlorotrifluoroethane	5.68	151	6735	0.339	ng	96
22) Carbon Disulfide	5.70	76	116457	1.445	ng	100
23) trans-1,2-Dichloroethene	6.23	61	1920	0.065	ng	90
24) 1,1-Dichloroethane	6.41	63	56623	1.564	ng	98
26) Vinyl Acetate	6.54	86	2544	0.678	ng	# 53
27) 2-Butanone (MEK)	6.77	72	26318	2.136	ng	# 86
28) cis-1,2-Dichloroethene	7.17	61	16472	0.563	ng	95
30) Ethyl Acetate	7.37	61	89447	11.040	ng	92
31) n-Hexane	7.38	57	6815	0.219	ng	98
32) Chloroform	7.45	83	570777	15.472	ng	100
34) Tetrahydrofuran (THF)	7.86	72	2711	0.214	ng	# 80
38) 1,1,1-Trichloroethane	8.47	97	1229532	36.865	ng	100
41) Benzene	8.97	78	13996	0.179	ng	98
42) Carbon Tetrachloride	9.14	117	10248	0.348	ng	98
43) Cyclohexane	9.28	84	10411	0.362	ng	88
46) Bromodichloromethane	10.14	83	29209	1.008	ng	97
47) Trichloroethene	10.22	130	2709657	117.992	ng	100
51) n-Heptane	10.63	71	6434	0.339	ng	94
53) 4-Methyl-2-pentanone	11.38	58	12701	0.752	ng	91
58) Toluene	12.61	91	248075	2.582	ng	100
59) 2-Hexanone	12.96	43	16145	0.346	ng	84
62) n-Butyl Acetate	13.81	43	9714	0.183	ng	99
63) n-Octane	13.95	57	8137	0.431	ng	89
64) Tetrachloroethene	14.07	166	843930	28.879	ng	100
66) Ethylbenzene	15.44	91	68057	0.594	ng	100
67) m- & p-Xylenes	15.66	91	197037	2.136	ng	99
69) Styrene	16.13	104	15449	0.244	ng	93
70) o-Xylene	16.27	91	63232	0.717	ng	100
71) n-Nonane	16.64	43	12729	0.298	ng	97
74) Cumene	17.05	105	8423	0.079	ng	99
75) alpha-Pinene	17.58	93	5831	0.118	ng	96
76) n-Propylbenzene	17.74	91	32423	0.252	ng	98
78) 4-Ethyltoluene	17.95	105	52812	0.513	ng	98
79) 1,3,5-Trimethylbenzene	18.06	105	30517	0.335	ng	98
82) 1,2,4-Trimethylbenzene	18.60	105	104019	1.159	ng	90
91) d-Limonene	19.36	68	298782	9.848	ng	100
95) Naphthalene	21.55	128	15714	0.162	ng	97

Data File : I:\MS13\DATA\2023_03\27\03272312.D Vial: 2
Acq On : 27 Mar 2023 10:23 Operator: TZ
Sample : P2301250-027 (1000mL) Inst : MS13
Misc : S35-01202301

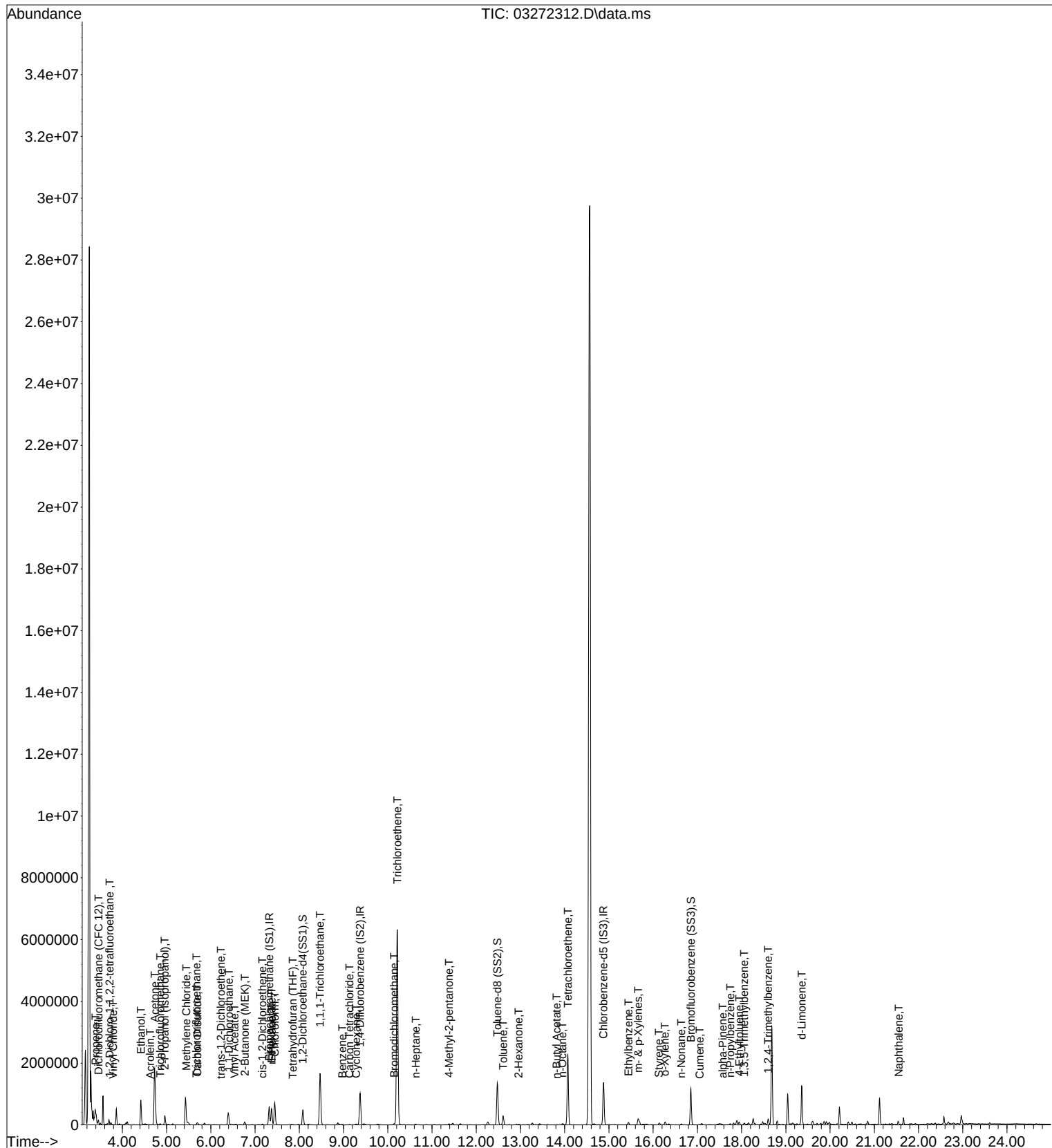
Quant Time: Mar 28 11:02:23 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M

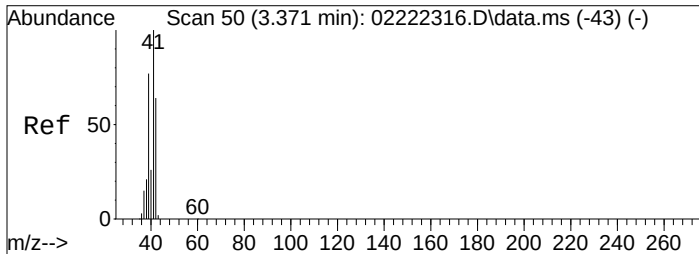
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Vial: 2
Operator: TZ
Inst : MS13

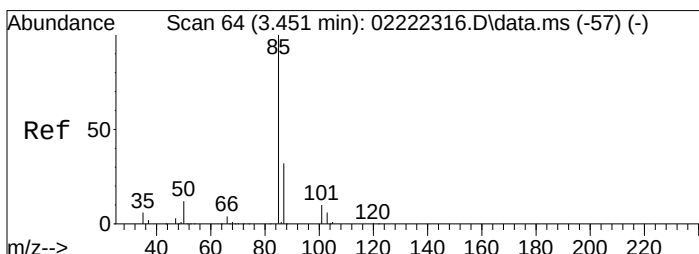
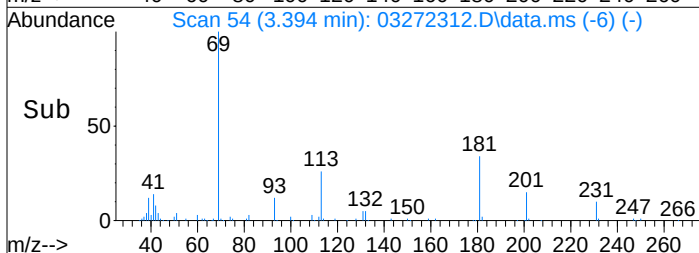
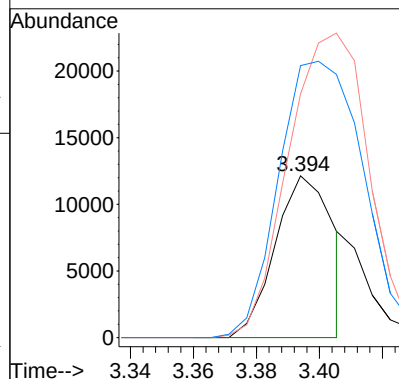
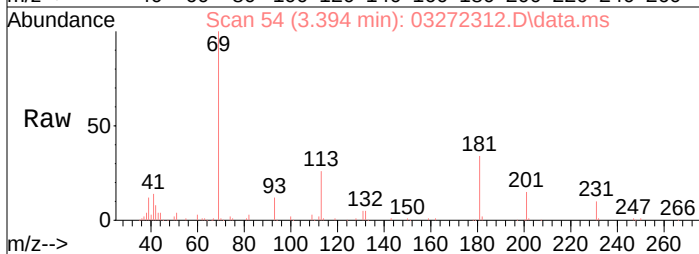
Quant Time: Mar 28 11:02:23 2023





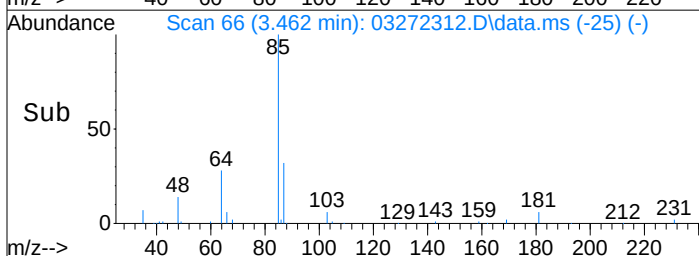
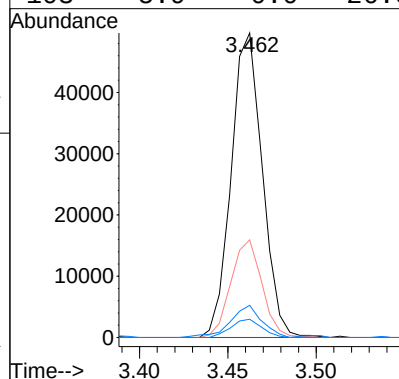
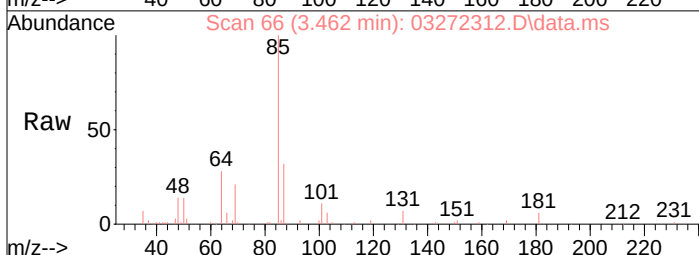
#2
 Propene
 Concen: 0.67 ng m
 RT: 3.39 min Scan# 54
 Delta R.T. 0.023 min
 Lab File: 03272312.D
 Acq: 27 Mar 2023 10:23

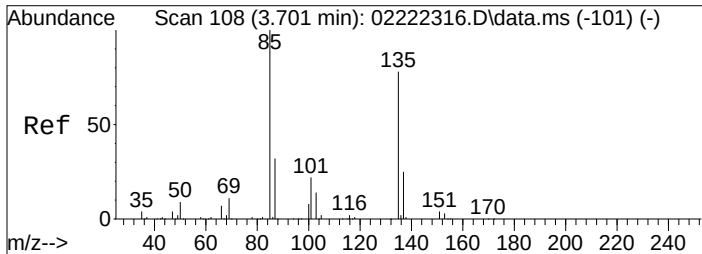
Tgt Ion:	42	Resp:	15449
Ion Ratio		Lower	Upper
42	100		
39	269.6	100.7	140.7#
41	257.9	134.4	174.4#



#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.46 ng
 RT: 3.46 min Scan# 66
 Delta R.T. -0.016 min
 Lab File: 03272312.D
 Acq: 27 Mar 2023 10:23

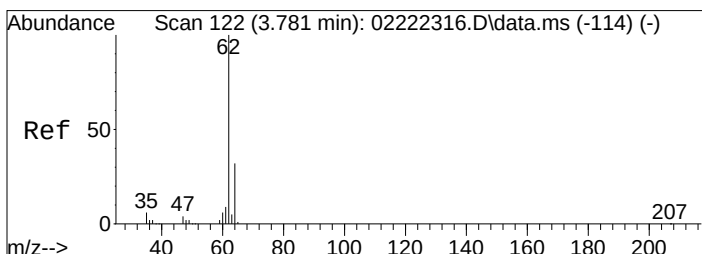
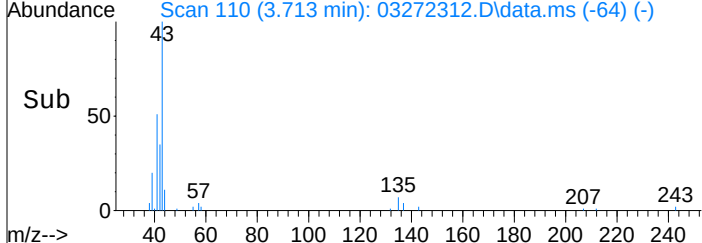
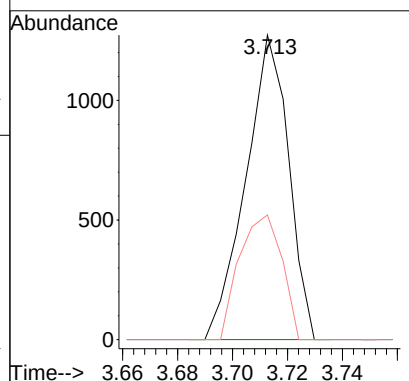
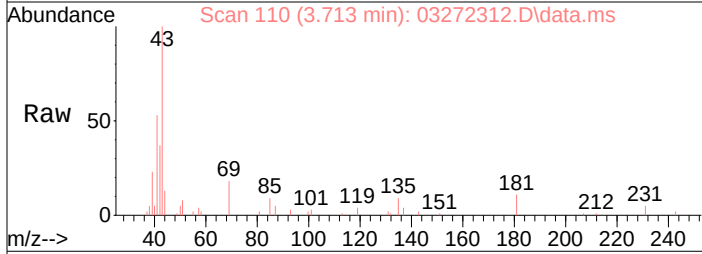
Tgt Ion:	85	Resp:	61042
Ion Ratio		Lower	Upper
85	100		
87	31.9	12.4	52.4
101	10.7	0.0	29.4
103	5.9	0.0	26.0





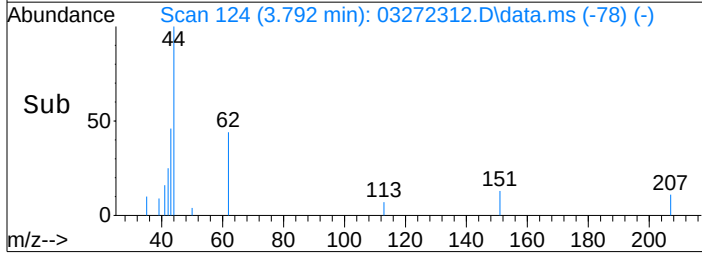
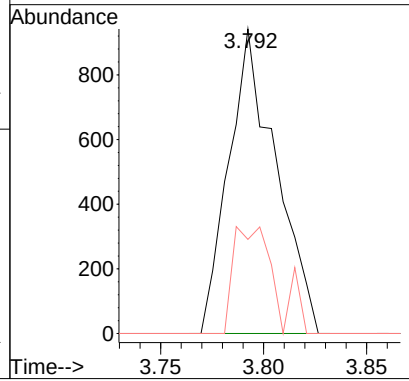
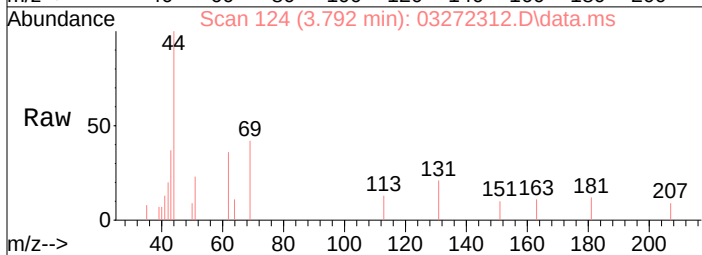
#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.07 ng
 RT: 3.71 min Scan# 110
 Delta R.T. 0.011 min
 Lab File: 03272312.D
 Acq: 27 Mar 2023 10:23

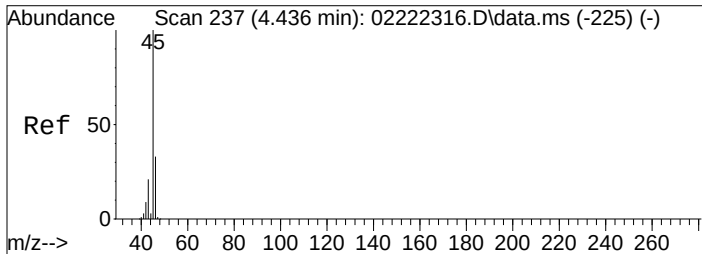
Tgt Ion:	135	Resp:	1379
Ion Ratio		Lower	Upper
135	100		
137	40.5	12.2	52.2



#6
 Vinyl Chloride
 Concen: 0.05 ng
 RT: 3.79 min Scan# 124
 Delta R.T. 0.011 min
 Lab File: 03272312.D
 Acq: 27 Mar 2023 10:23

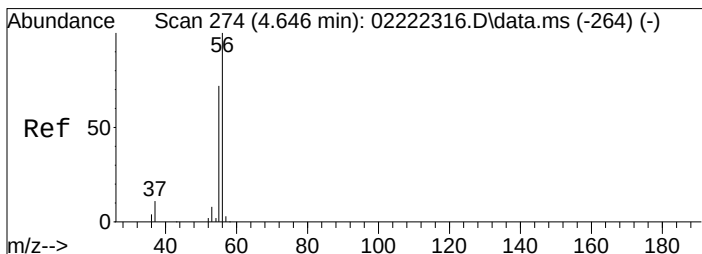
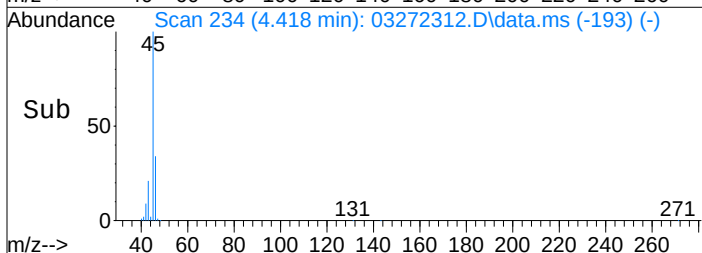
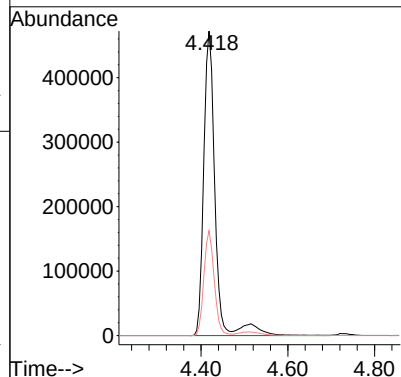
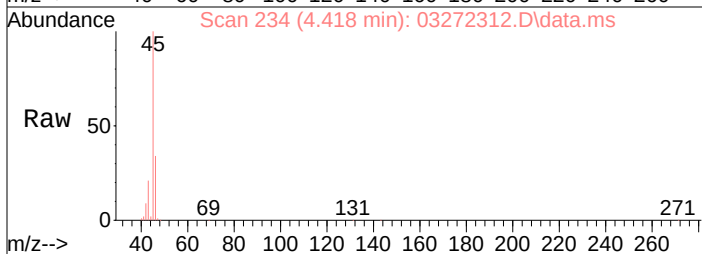
Tgt Ion:	62	Resp:	1498
Ion Ratio		Lower	Upper
62	100		
64	31.2	11.8	51.8





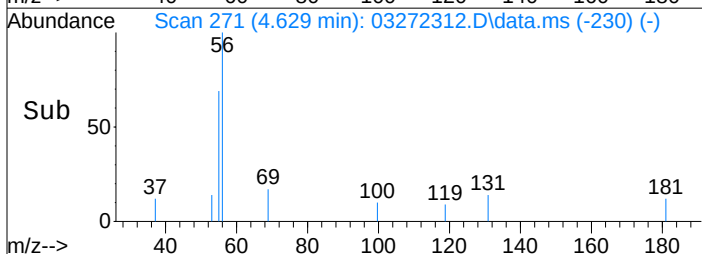
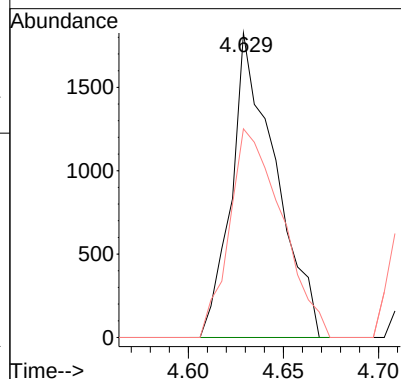
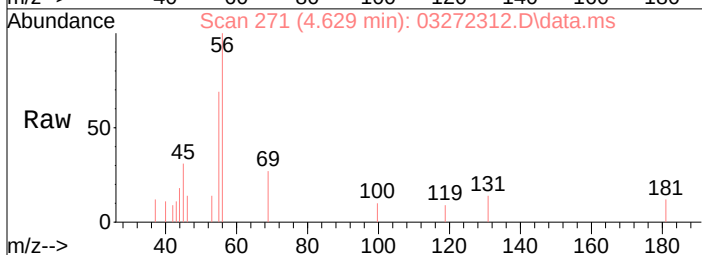
#10
Ethanol
Concen: 53.12 ng
RT: 4.42 min Scan# 234
Delta R.T. -0.017 min
Lab File: 03272312.D
Acq: 27 Mar 2023 10:23

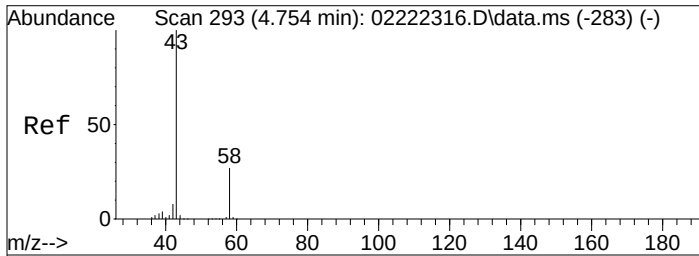
Tgt Ion: 45 Resp: 863843
Ion Ratio Lower Upper
45 100
46 33.7 13.8 53.8



#12
Acrolein
Concen: 0.22 ng
RT: 4.63 min Scan# 271
Delta R.T. -0.017 min
Lab File: 03272312.D
Acq: 27 Mar 2023 10:23

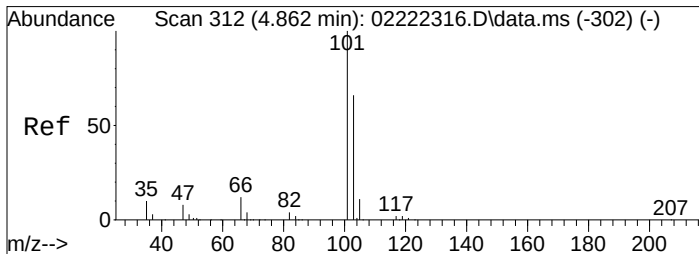
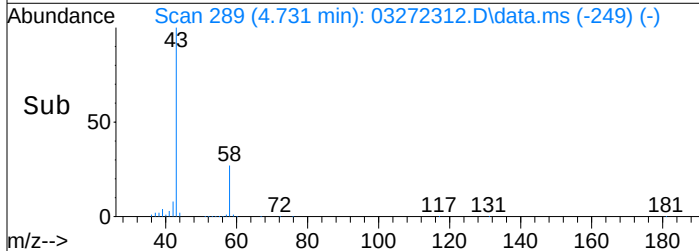
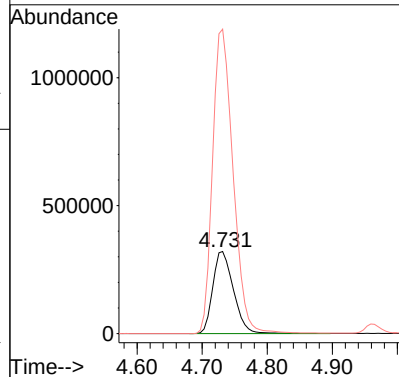
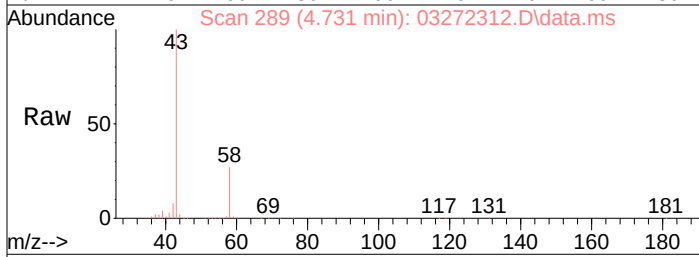
Tgt Ion: 56 Resp: 2929
Ion Ratio Lower Upper
56 100
55 82.1 50.9 90.9





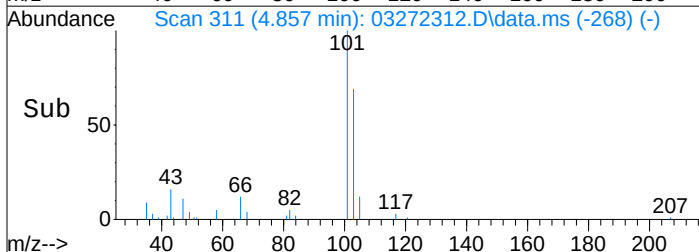
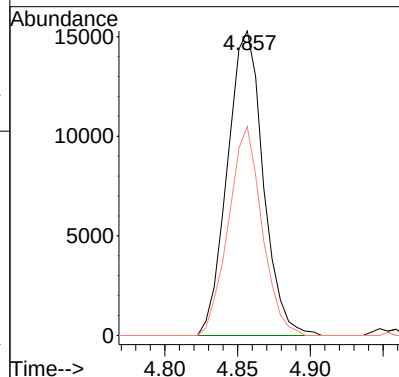
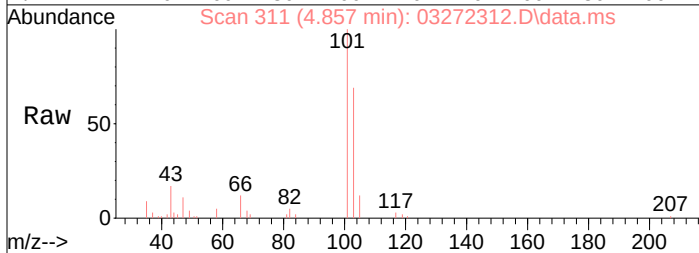
#13
Acetone
Concen: 51.14 ng
RT: 4.73 min Scan# 289
Delta R.T. -0.023 min
Lab File: 03272312.D
Acq: 27 Mar 2023 10:23

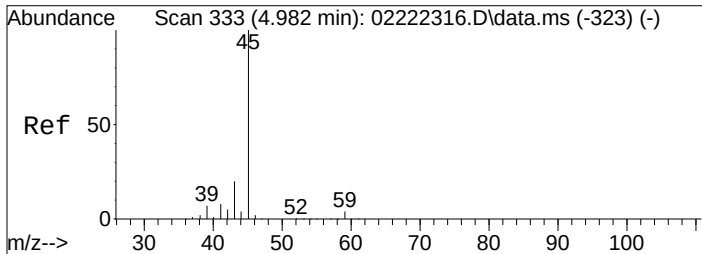
Tgt Ion: 58 Resp: 709792
Ion Ratio Lower Upper
58 100
43 369.1 337.8 397.8



#14
Trichlorofluoromethane
Concen: 0.69 ng
RT: 4.86 min Scan# 311
Delta R.T. -0.006 min
Lab File: 03272312.D
Acq: 27 Mar 2023 10:23

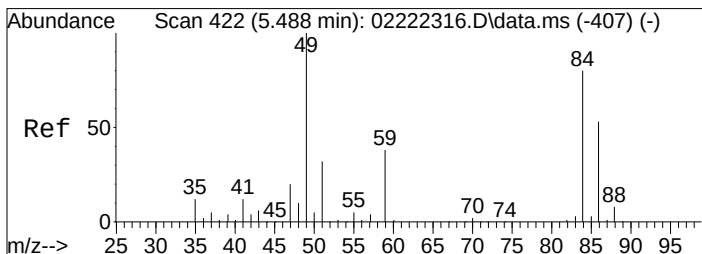
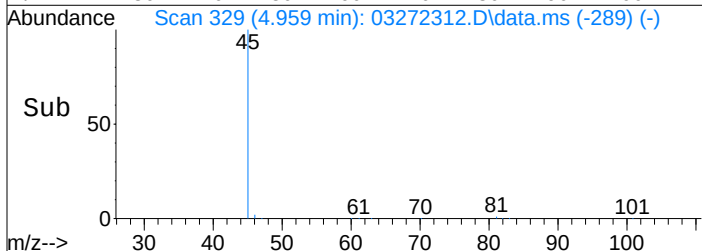
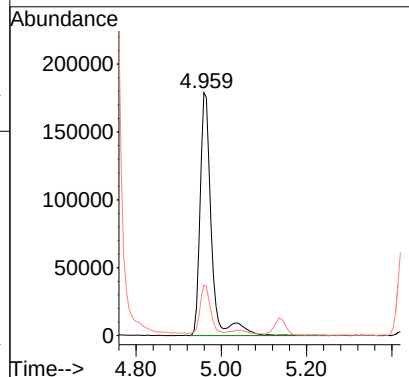
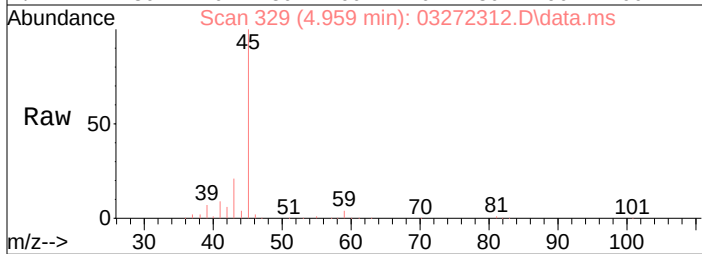
Tgt Ion: 101 Resp: 26149
Ion Ratio Lower Upper
101 100
103 64.3 45.2 85.2





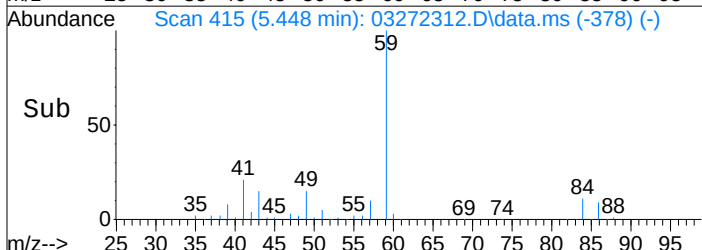
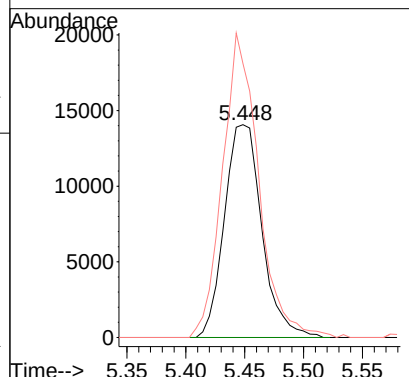
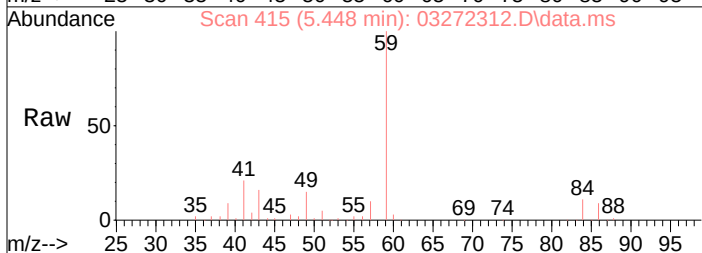
#15
 2-Propanol (Isopropanol)
 Concen: 5.90 ng
 RT: 4.96 min Scan# 329
 Delta R.T. -0.023 min
 Lab File: 03272312.D
 Acq: 27 Mar 2023 10:23

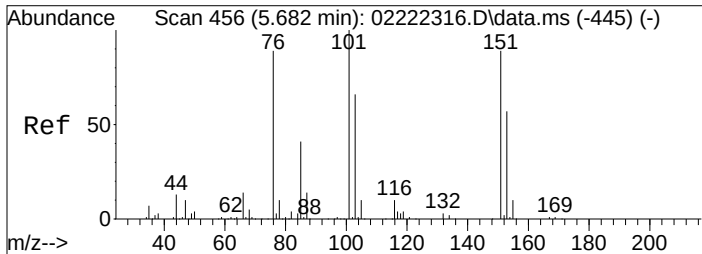
Tgt Ion: 45 Resp: 330349
 Ion Ratio Lower Upper
 45 100
 43 21.8 0.0 39.7



#19
 Methylene Chloride
 Concen: 1.53 ng
 RT: 5.45 min Scan# 415
 Delta R.T. -0.040 min
 Lab File: 03272312.D
 Acq: 27 Mar 2023 10:23

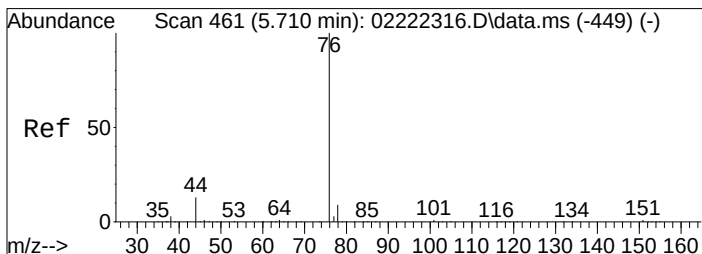
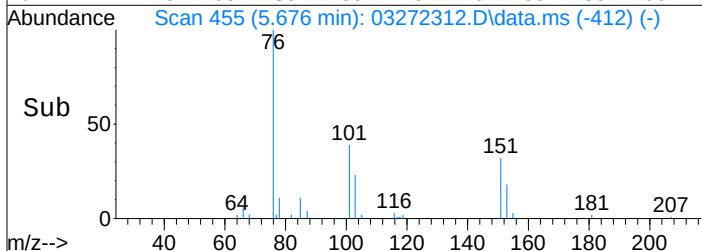
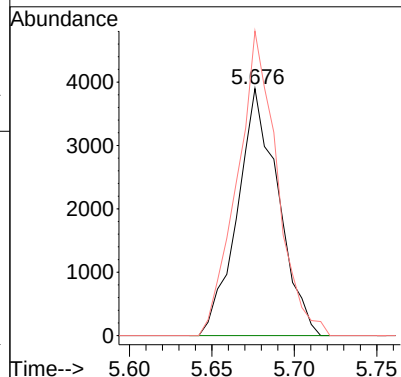
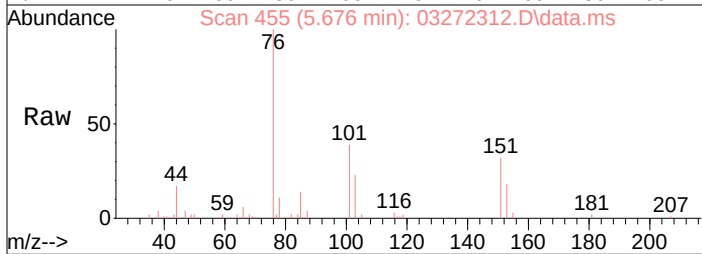
Tgt Ion: 84 Resp: 31139
 Ion Ratio Lower Upper
 84 100
 49 137.6 101.3 151.3





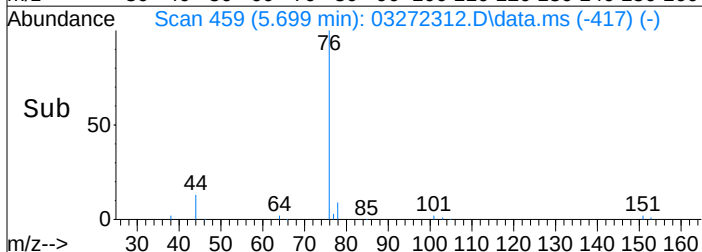
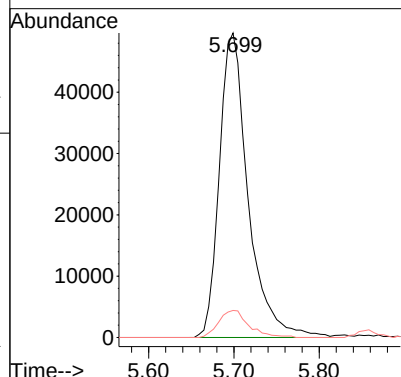
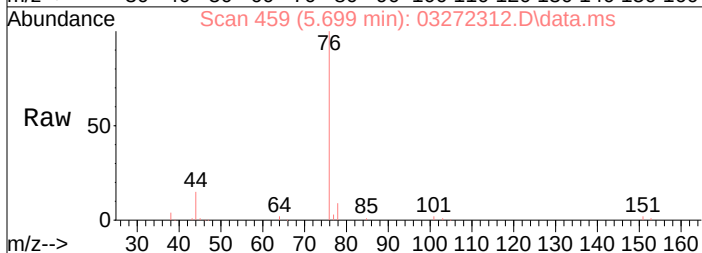
#21
 Trichlorotrifluoroethane
 Concen: 0.34 ng
 RT: 5.68 min Scan# 455
 Delta R.T. -0.006 min
 Lab File: 03272312.D
 Acq: 27 Mar 2023 10:23

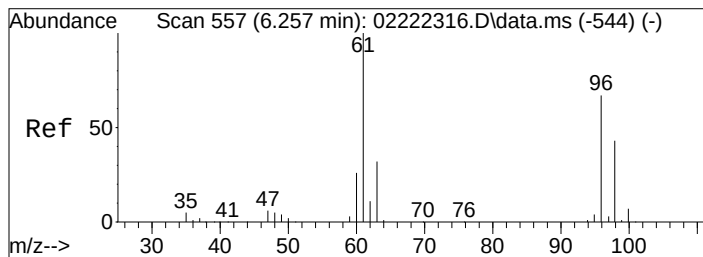
Tgt Ion: 151 Resp: 6735
 Ion Ratio Lower Upper
 151 100
 101 120.3 96.3 136.3



#22
 Carbon Disulfide
 Concen: 1.45 ng
 RT: 5.70 min Scan# 459
 Delta R.T. -0.011 min
 Lab File: 03272312.D
 Acq: 27 Mar 2023 10:23

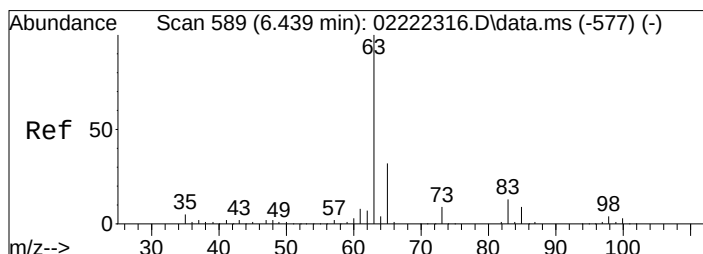
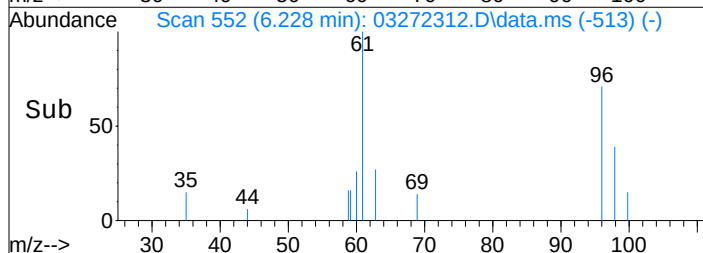
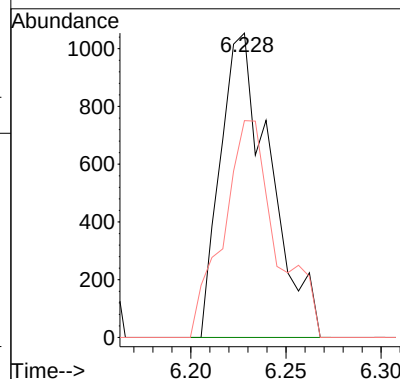
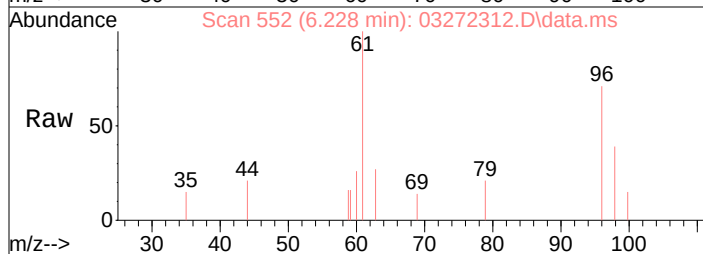
Tgt Ion: 76 Resp: 116457
 Ion Ratio Lower Upper
 76 100
 78 9.3 0.0 29.3





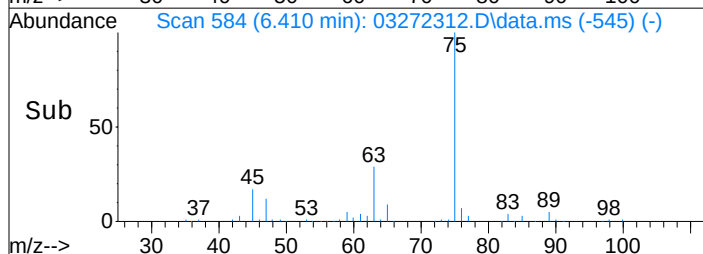
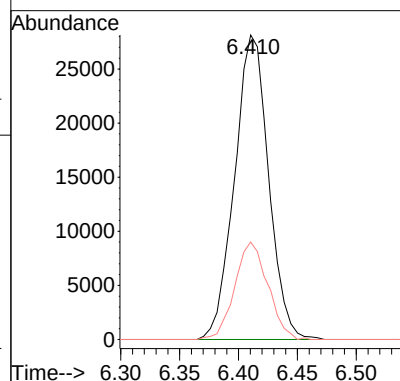
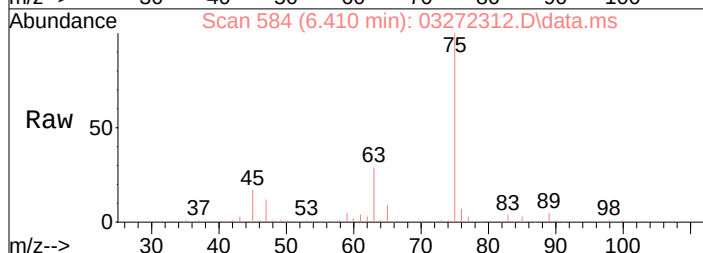
#23
trans-1,2-Dichloroethene
Concen: 0.06 ng
RT: 6.23 min Scan# 552
Delta R.T. -0.029 min
Lab File: 03272312.D
Acq: 27 Mar 2023 10:23

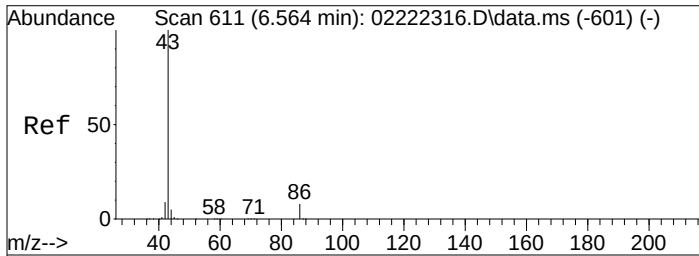
Tgt Ion: 61 Resp: 1920
Ion Ratio Lower Upper
61 100
96 75.9 47.7 87.7



#24
1,1-Dichloroethane
Concen: 1.56 ng
RT: 6.41 min Scan# 584
Delta R.T. -0.029 min
Lab File: 03272312.D
Acq: 27 Mar 2023 10:23

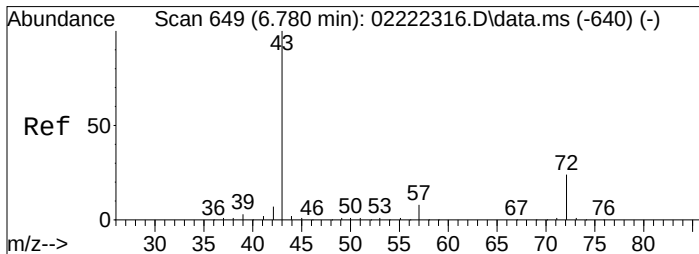
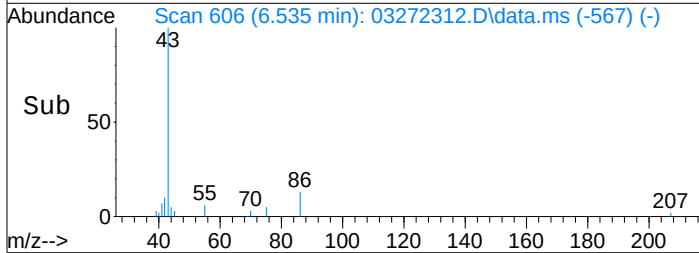
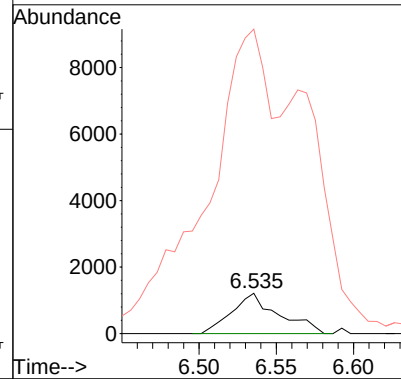
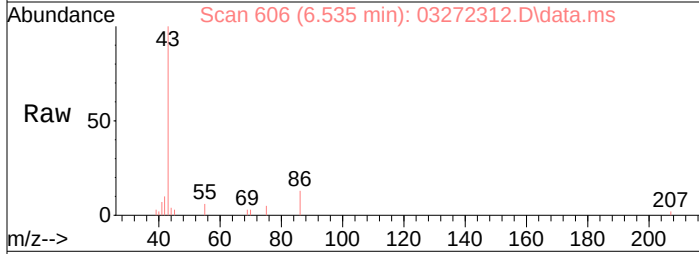
Tgt Ion: 63 Resp: 56623
Ion Ratio Lower Upper
63 100
65 31.1 12.0 52.0





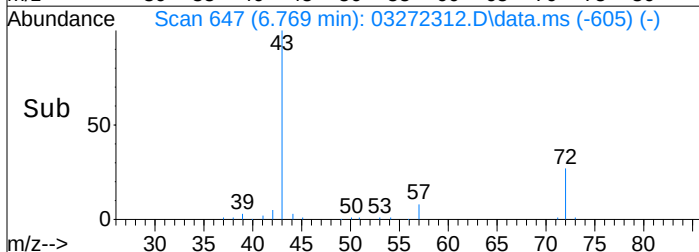
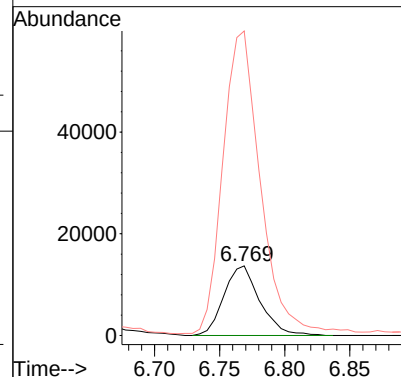
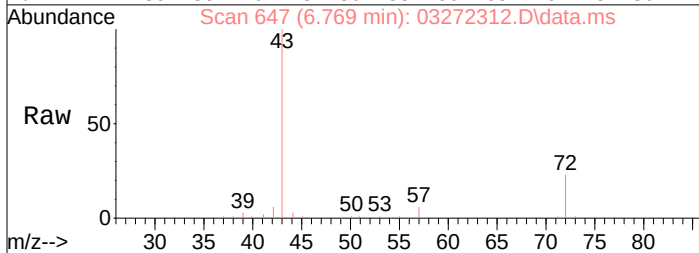
#26
 Vinyl Acetate
 Concen: 0.68 ng
 RT: 6.54 min Scan# 606
 Delta R.T. -0.029 min
 Lab File: 03272312.D
 Acq: 27 Mar 2023 10:23

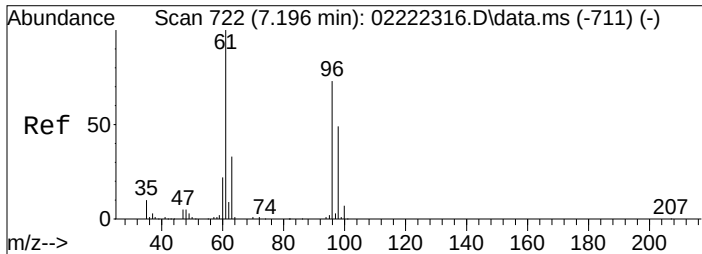
Tgt Ion: 86 Resp: 2544
 Ion Ratio Lower Upper
 86 100
 43 1569.5 1292.1 1332.1#



#27
 2-Butanone (MEK)
 Concen: 2.14 ng
 RT: 6.77 min Scan# 647
 Delta R.T. -0.011 min
 Lab File: 03272312.D
 Acq: 27 Mar 2023 10:23

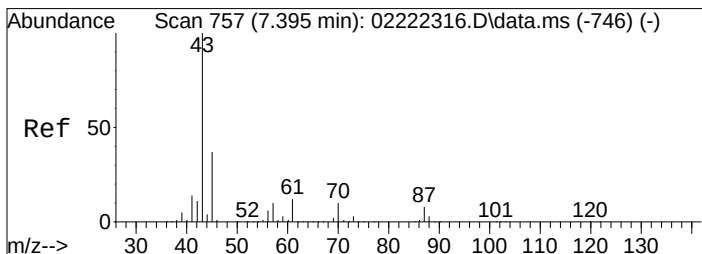
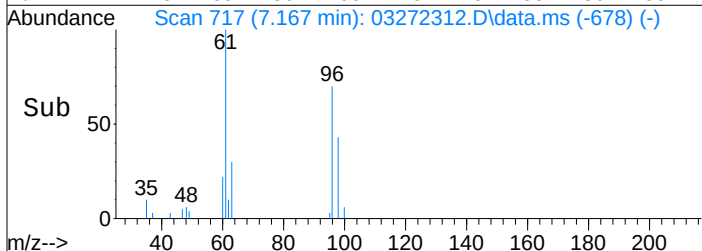
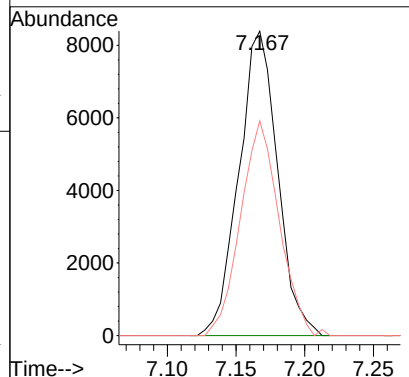
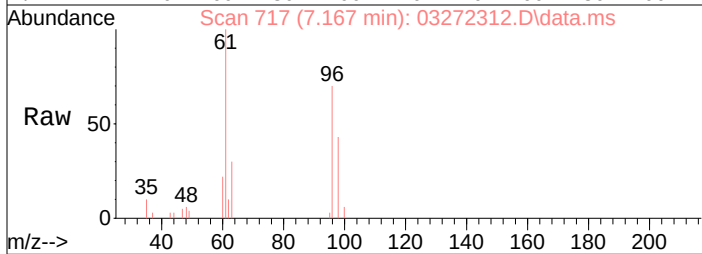
Tgt Ion: 72 Resp: 26318
 Ion Ratio Lower Upper
 72 100
 43 454.7 400.5 440.5#





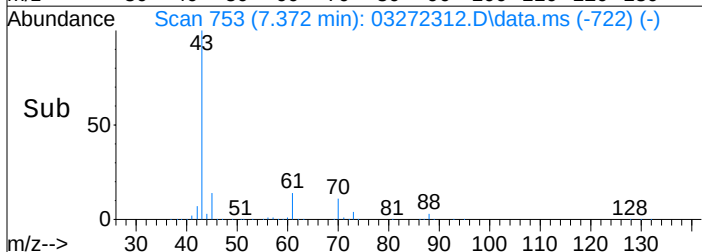
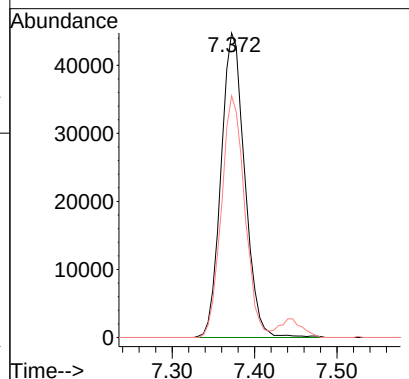
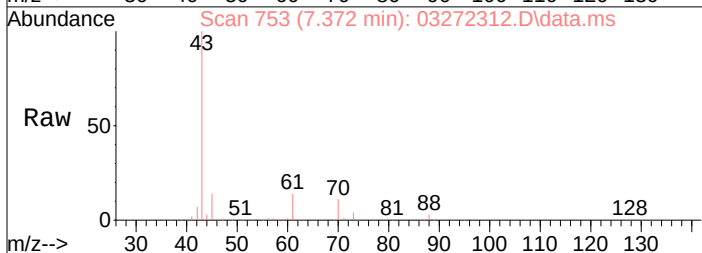
#28
 cis-1,2-Dichloroethene
 Concen: 0.56 ng
 RT: 7.17 min Scan# 717
 Delta R.T. -0.029 min
 Lab File: 03272312.D
 Acq: 27 Mar 2023 10:23

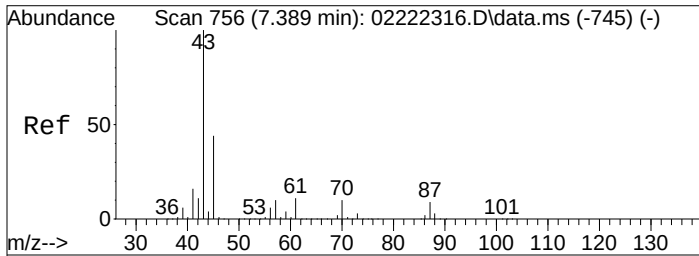
Tgt Ion:	61	Resp:	16472
Ion Ratio		Lower	Upper
61	100		
96	70.5	54.5	94.5



#30
 Ethyl Acetate
 Concen: 11.04 ng
 RT: 7.37 min Scan# 753
 Delta R.T. -0.023 min
 Lab File: 03272312.D
 Acq: 27 Mar 2023 10:23

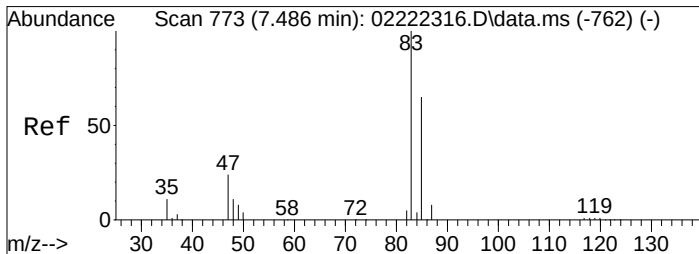
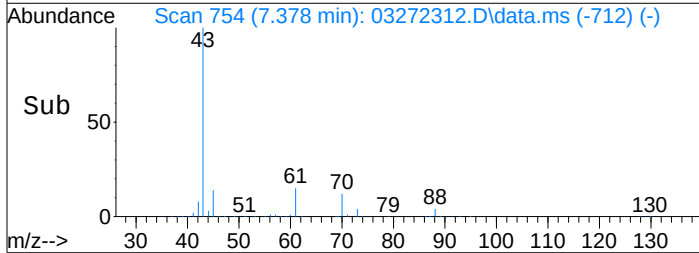
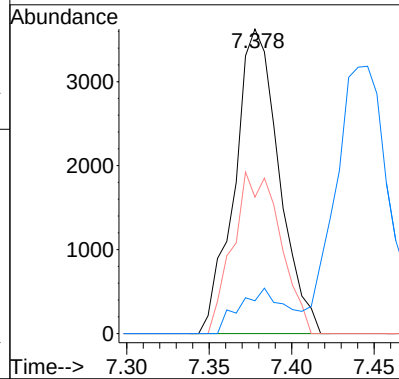
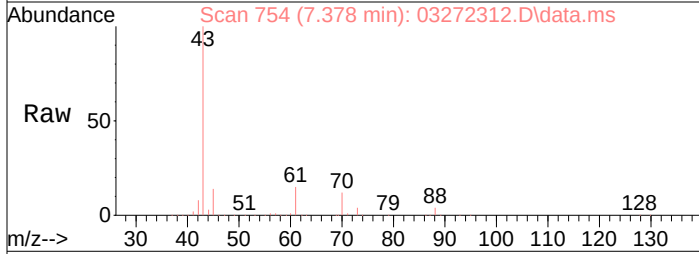
Tgt Ion:	61	Resp:	89447
Ion Ratio		Lower	Upper
61	100		
70	77.9	65.6	105.6





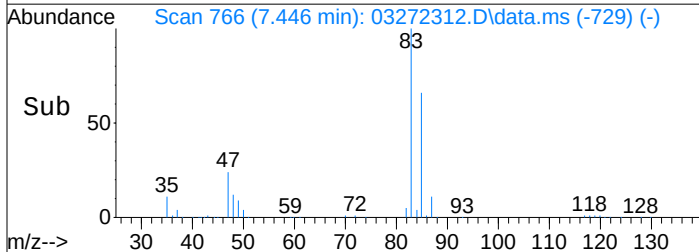
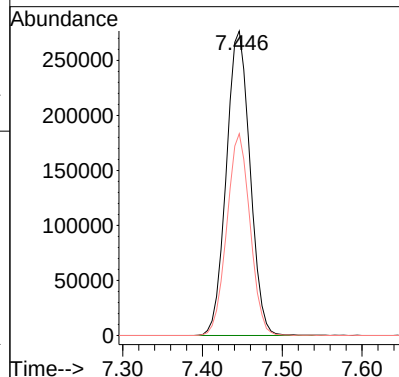
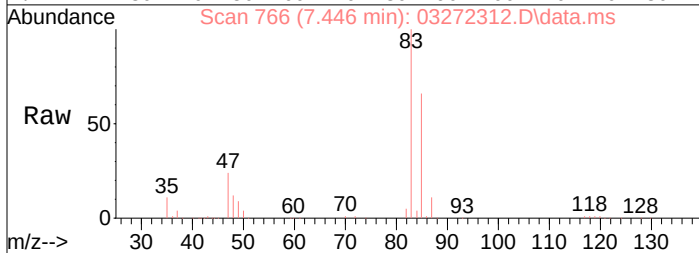
#31
n-Hexane
Concen: 0.22 ng
RT: 7.38 min Scan# 754
Delta R.T. -0.011 min
Lab File: 03272312.D
Acq: 27 Mar 2023 10:23

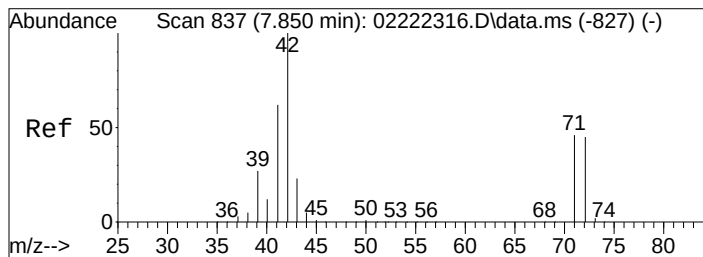
Tgt Ion: 57 Resp: 6815
Ion Ratio Lower Upper
57 100
56 56.3 44.0 66.0
86 15.8 11.5 17.3



#32
Chloroform
Concen: 15.47 ng
RT: 7.45 min Scan# 766
Delta R.T. -0.040 min
Lab File: 03272312.D
Acq: 27 Mar 2023 10:23

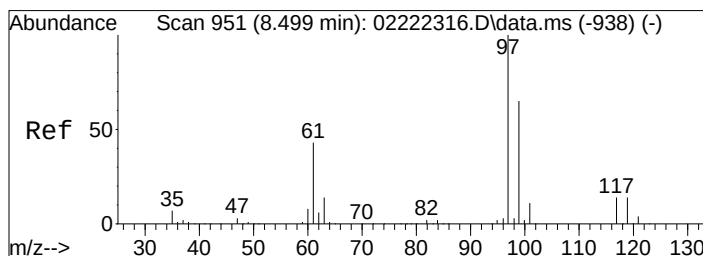
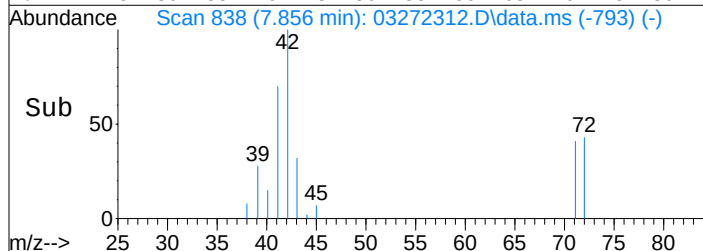
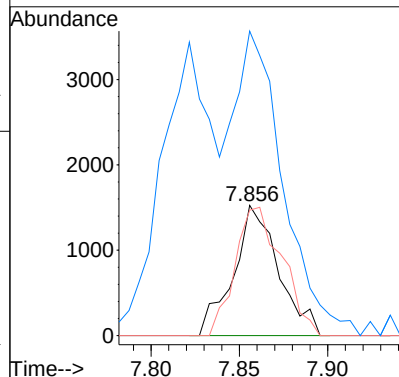
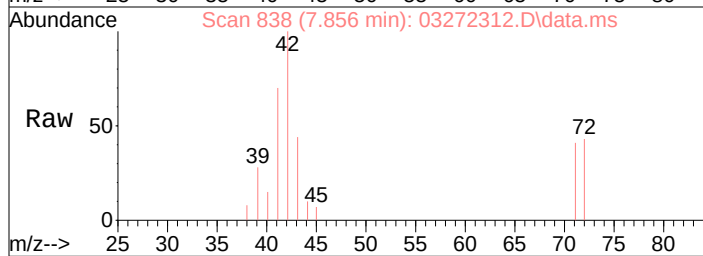
Tgt Ion: 83 Resp: 570777
Ion Ratio Lower Upper
83 100
85 65.0 45.0 85.0





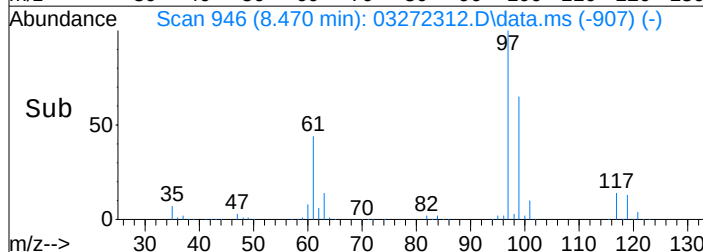
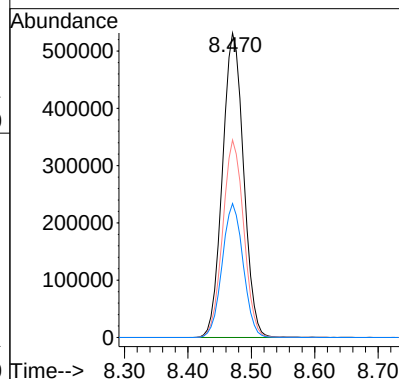
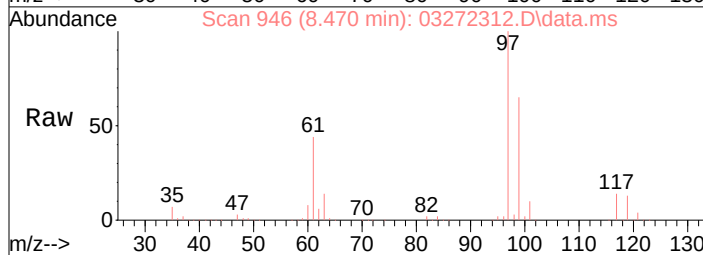
#34
 Tetrahydrofuran (THF)
 Concen: 0.21 ng
 RT: 7.86 min Scan# 838
 Delta R.T. 0.006 min
 Lab File: 03272312.D
 Acq: 27 Mar 2023 10:23

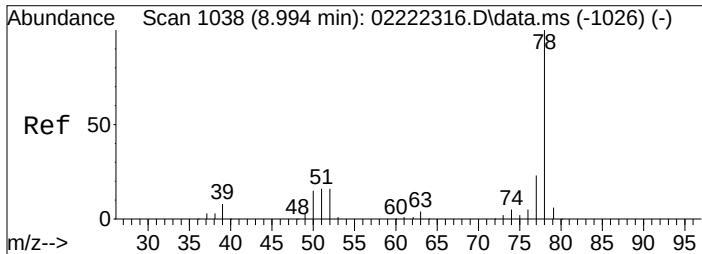
Tgt Ion: 72 Resp: 2711
 Ion Ratio Lower Upper
 72 100
 71 102.8 79.8 119.8
 42 263.9 199.0 239.0#



#38
 1,1,1-Trichloroethane
 Concen: 36.86 ng
 RT: 8.47 min Scan# 946
 Delta R.T. -0.029 min
 Lab File: 03272312.D
 Acq: 27 Mar 2023 10:23

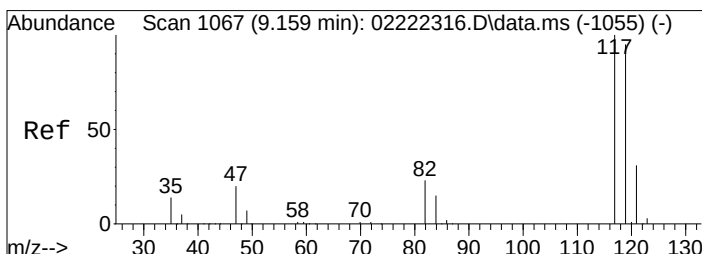
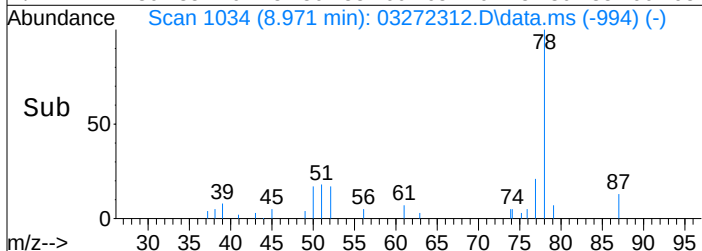
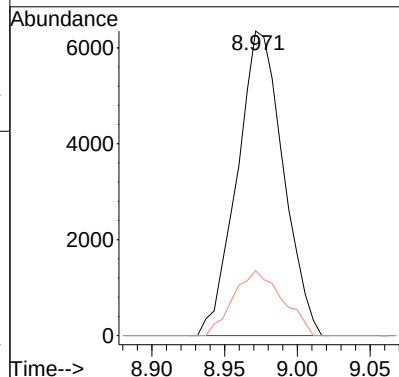
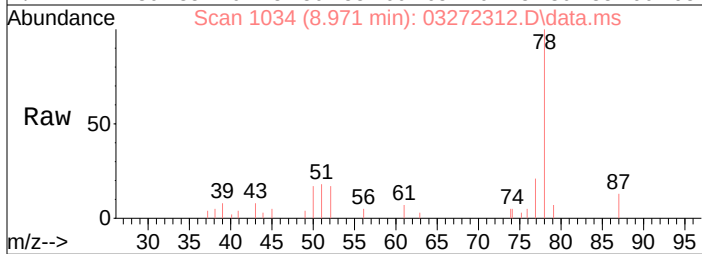
Tgt Ion: 97 Resp: 1229532
 Ion Ratio Lower Upper
 97 100
 99 64.5 44.9 84.9
 61 43.7 23.5 63.5





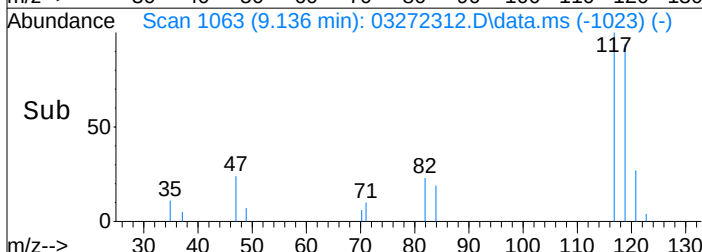
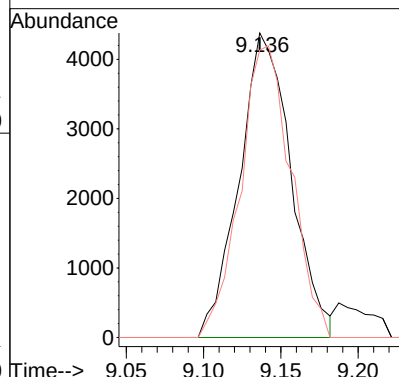
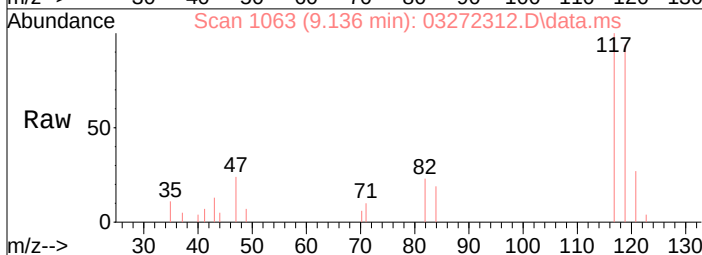
#41
Benzene
Concen: 0.18 ng
RT: 8.97 min Scan# 1034
Delta R.T. -0.023 min
Lab File: 03272312.D
Acq: 27 Mar 2023 10:23

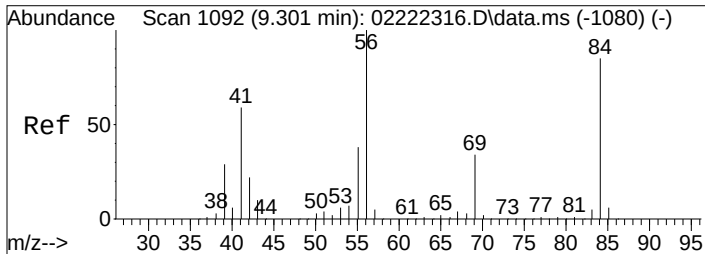
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	13996		
77	22.6	3.7	43.7	



#42
Carbon Tetrachloride
Concen: 0.35 ng
RT: 9.14 min Scan# 1063
Delta R.T. -0.023 min
Lab File: 03272312.D
Acq: 27 Mar 2023 10:23

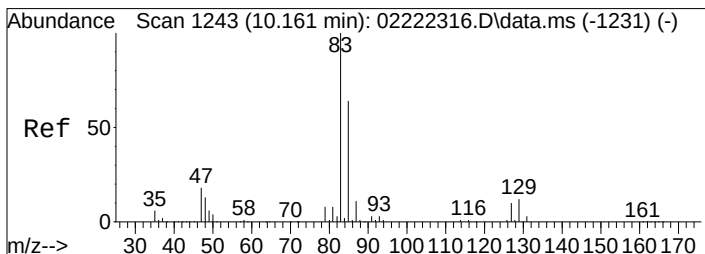
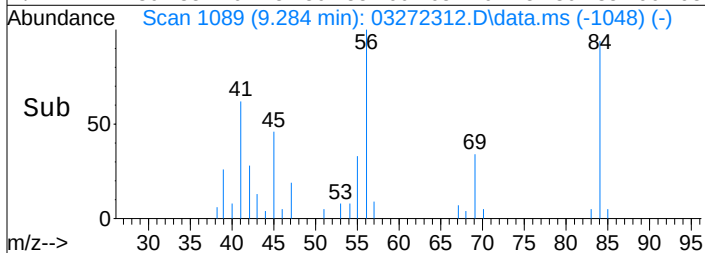
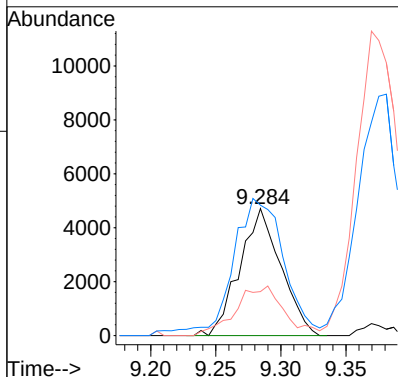
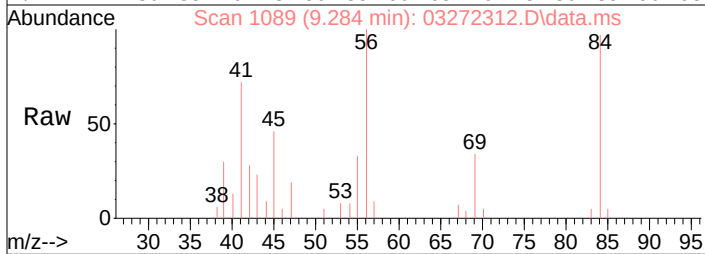
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	10248		
119	93.7	75.7	115.7	





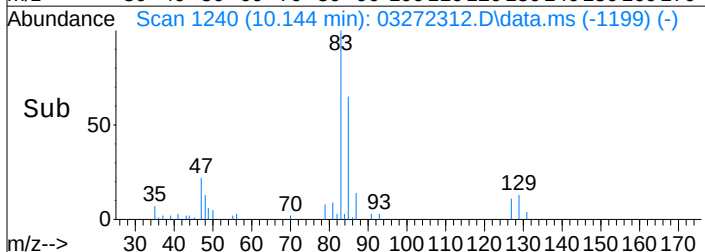
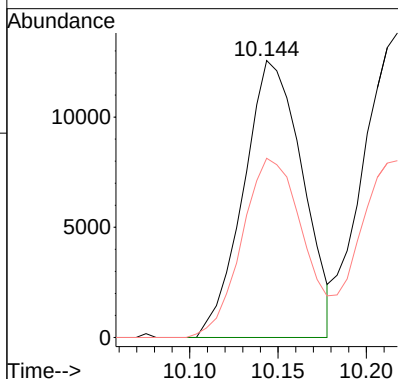
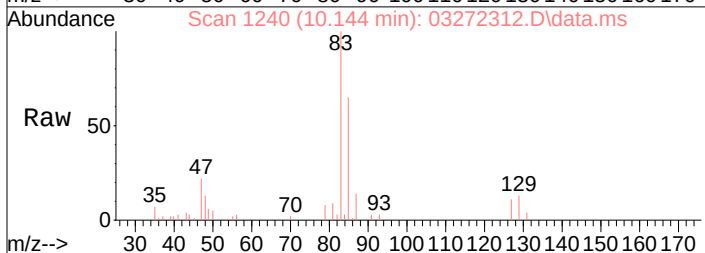
#43
Cyclohexane
Concen: 0.36 ng
RT: 9.28 min Scan# 1089
Delta R.T. -0.017 min
Lab File: 03272312.D
Acq: 27 Mar 2023 10:23

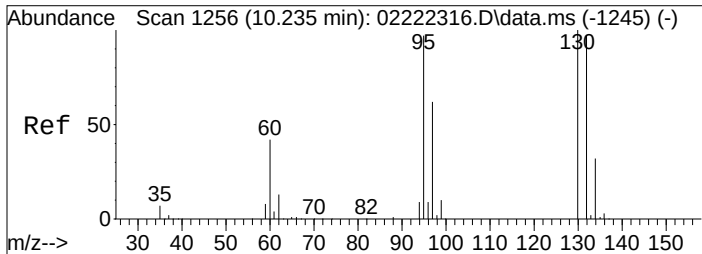
Tgt Ion: 84 Resp: 10411
Ion Ratio Lower Upper
84 100
69 45.5 20.0 60.0
56 133.1 98.5 138.5



#46
Bromodichloromethane
Concen: 1.01 ng
RT: 10.14 min Scan# 1240
Delta R.T. -0.017 min
Lab File: 03272312.D
Acq: 27 Mar 2023 10:23

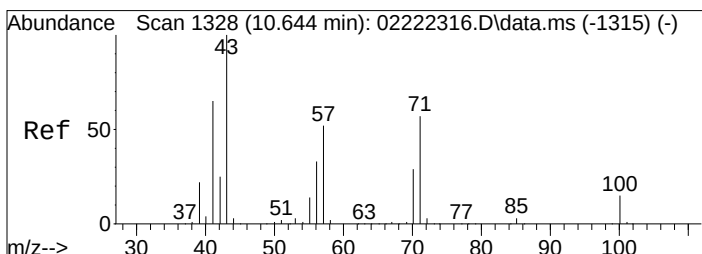
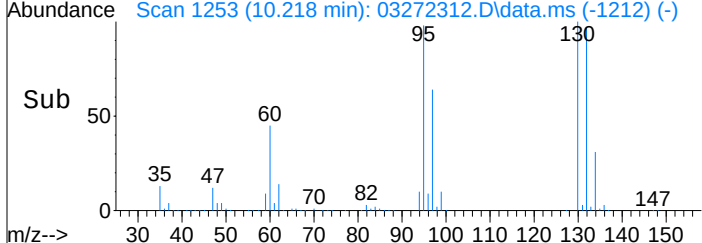
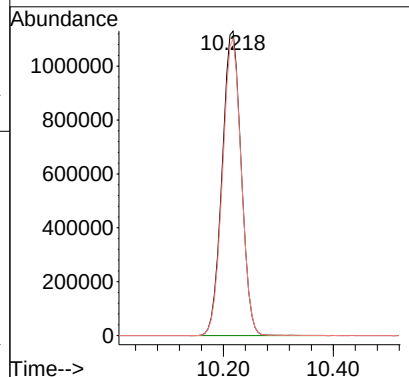
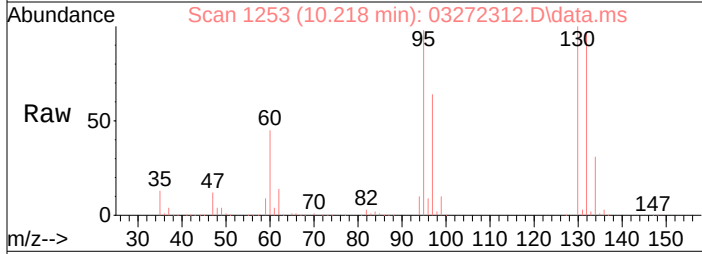
Tgt Ion: 83 Resp: 29209
Ion Ratio Lower Upper
83 100
85 66.7 44.0 84.0





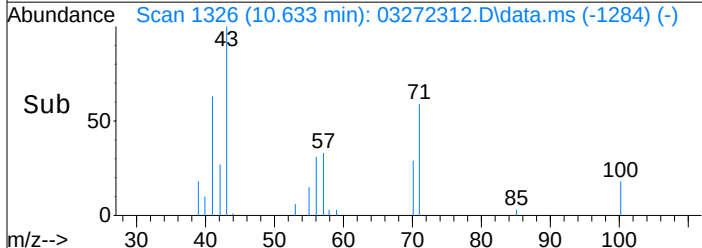
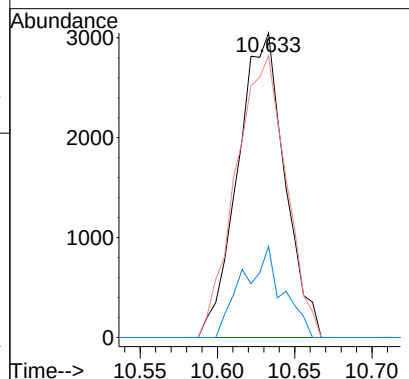
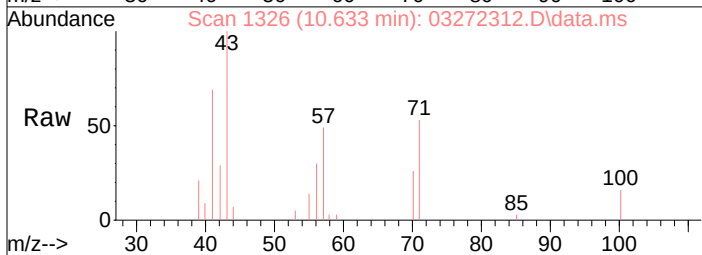
#47
 Trichloroethene
 Concen: 117.99 ng
 RT: 10.22 min Scan# 1253
 Delta R.T. -0.017 min
 Lab File: 03272312.D
 Acq: 27 Mar 2023 10:23

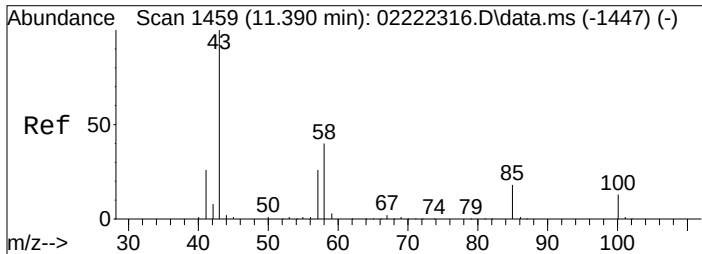
Tgt Ion:	130	Resp:	2709657
Ion Ratio	Lower	Upper	
130	100		
132	96.5	76.3	116.3



#51
 n-Heptane
 Concen: 0.34 ng
 RT: 10.63 min Scan# 1326
 Delta R.T. -0.011 min
 Lab File: 03272312.D
 Acq: 27 Mar 2023 10:23

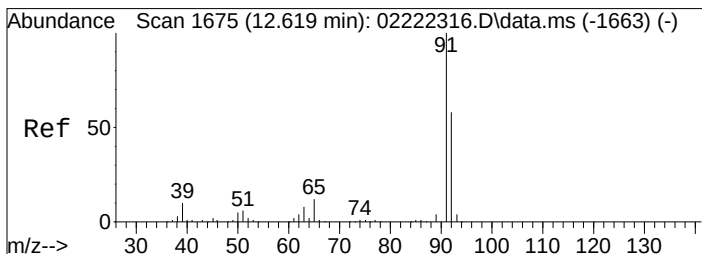
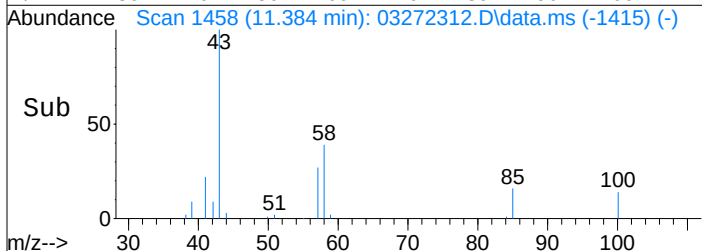
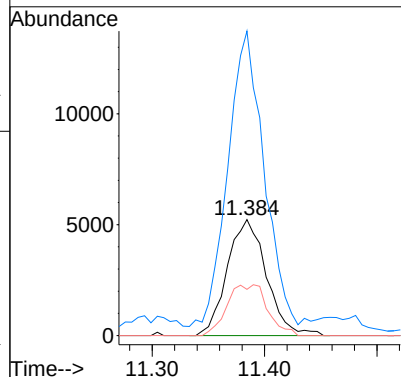
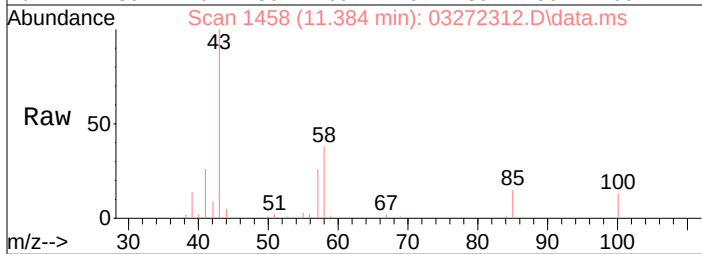
Tgt Ion:	71	Resp:	6434
Ion Ratio	Lower	Upper	
71	100		
57	98.9	71.7	111.7
100	25.6	5.8	45.8





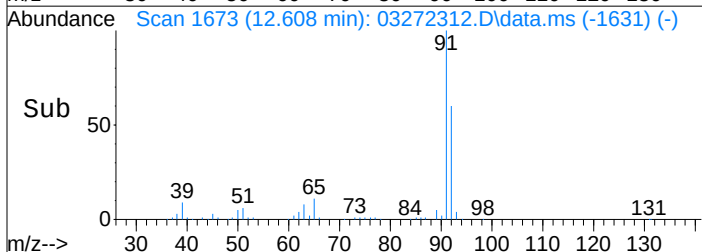
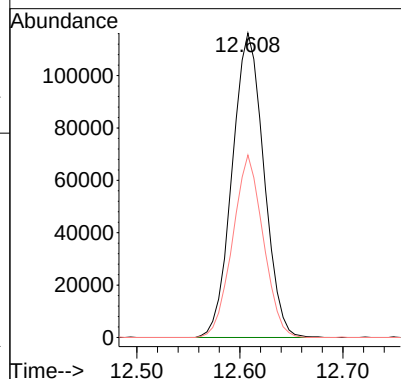
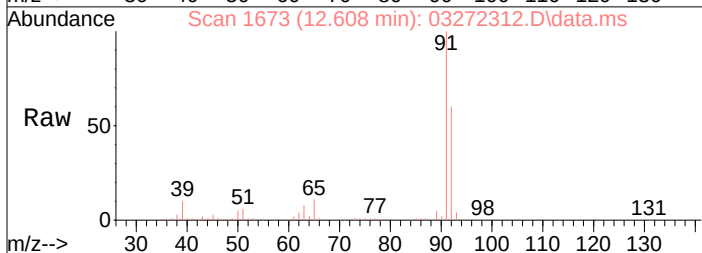
#53
 4-Methyl-2-pentanone
 Concen: 0.75 ng
 RT: 11.38 min Scan# 1458
 Delta R.T. -0.006 min
 Lab File: 03272312.D
 Acq: 27 Mar 2023 10:23

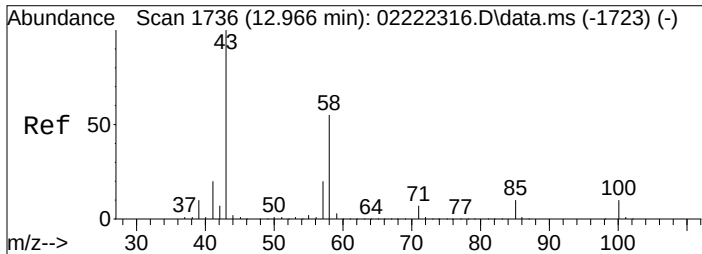
Tgt Ion: 58	Resp: 12701
Ion Ratio	Lower Upper
58	100
85	45.1 38.6 58.0
43	236.3 202.2 303.2



#58
 Toluene
 Concen: 2.58 ng
 RT: 12.61 min Scan# 1673
 Delta R.T. -0.011 min
 Lab File: 03272312.D
 Acq: 27 Mar 2023 10:23

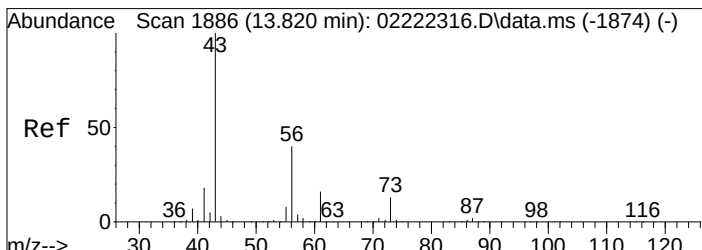
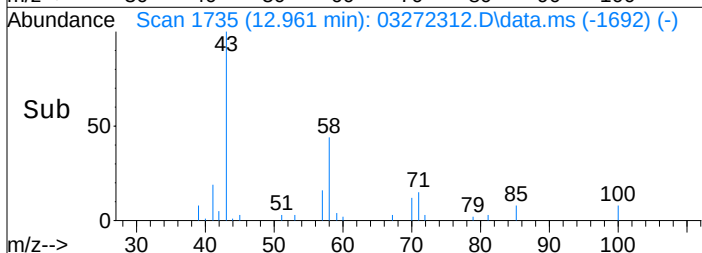
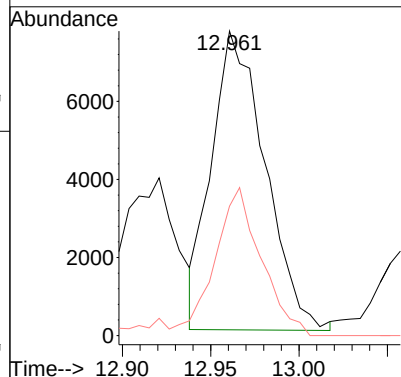
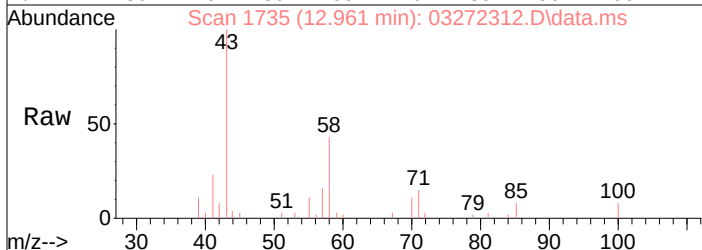
Tgt Ion: 91	Resp: 248075
Ion Ratio	Lower Upper
91	100
92	58.0 38.0 78.0





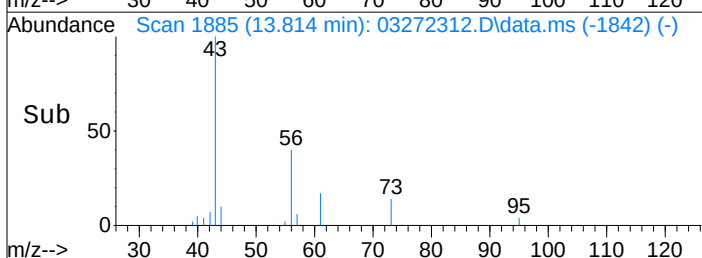
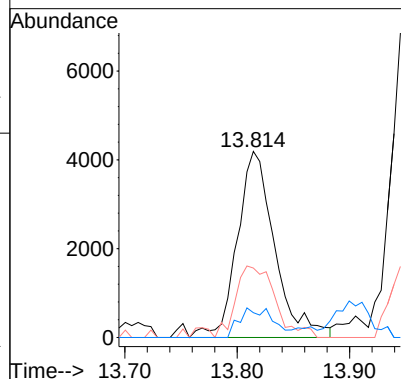
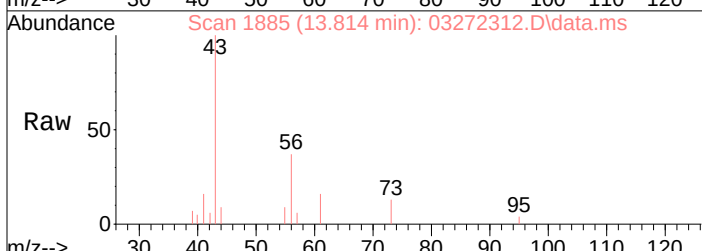
#59
2-Hexanone
Concen: 0.35 ng
RT: 12.96 min Scan# 1735
Delta R.T. -0.006 min
Lab File: 03272312.D
Acq: 27 Mar 2023 10:23

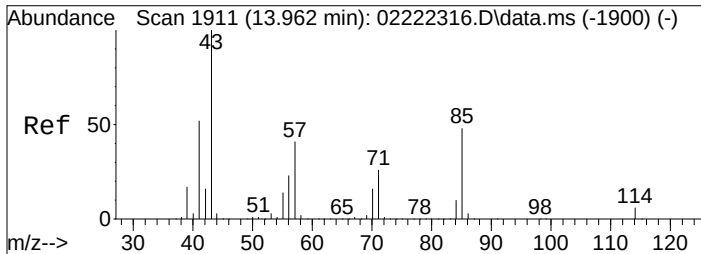
Tgt Ion: 43 Resp: 16145
Ion Ratio Lower Upper
43 100
58 42.8 34.5 74.5



#62
n-Butyl Acetate
Concen: 0.18 ng
RT: 13.81 min Scan# 1885
Delta R.T. -0.006 min
Lab File: 03272312.D
Acq: 27 Mar 2023 10:23

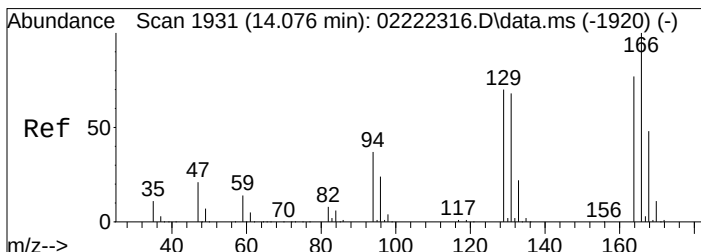
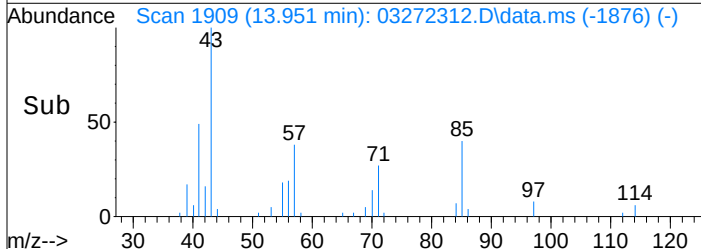
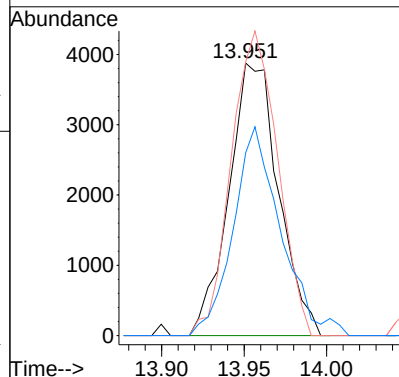
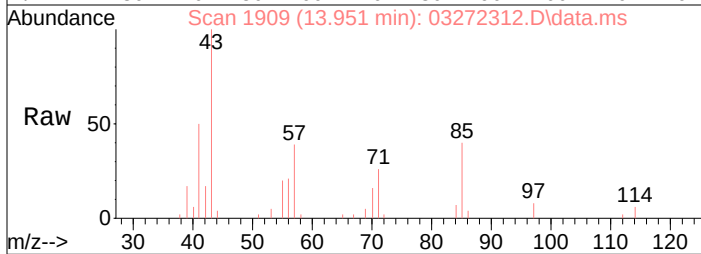
Tgt Ion: 43 Resp: 9714
Ion Ratio Lower Upper
43 100
56 40.3 20.0 60.0
73 14.4 0.0 33.2





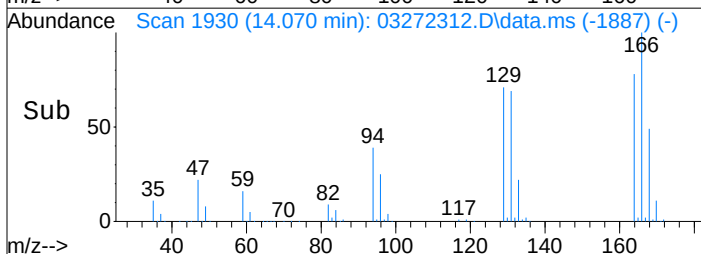
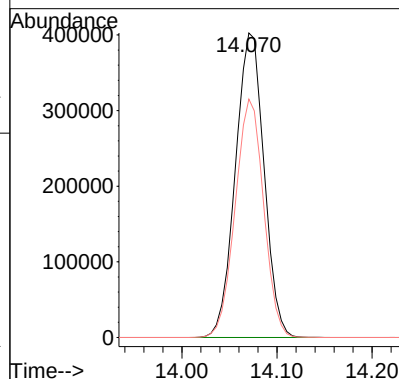
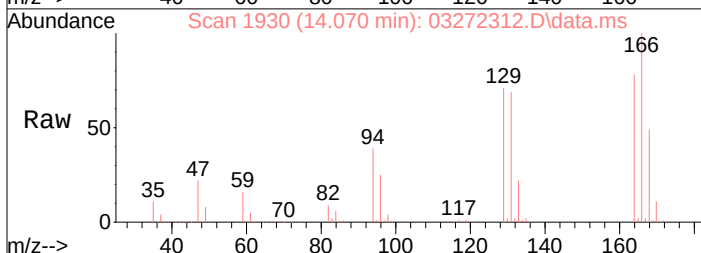
#63
n-Octane
Concen: 0.43 ng
RT: 13.95 min Scan# 1909
Delta R.T. -0.011 min
Lab File: 03272312.D
Acq: 27 Mar 2023 10:23

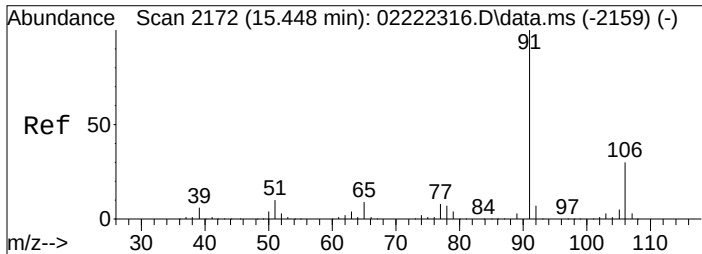
Tgt Ion:	57	Resp:	8137
Ion Ratio		Lower	Upper
57	100		
85	104.6	94.1	141.1
71	73.3	52.6	79.0



#64
Tetrachloroethene
Concen: 28.88 ng
RT: 14.07 min Scan# 1930
Delta R.T. -0.006 min
Lab File: 03272312.D
Acq: 27 Mar 2023 10:23

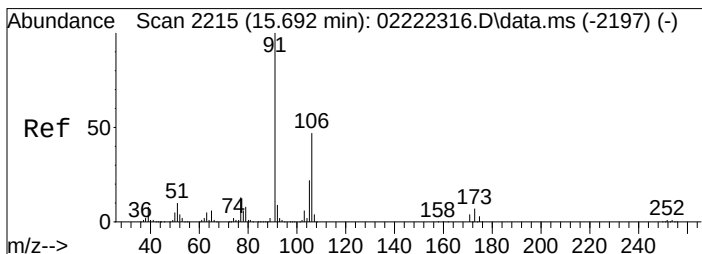
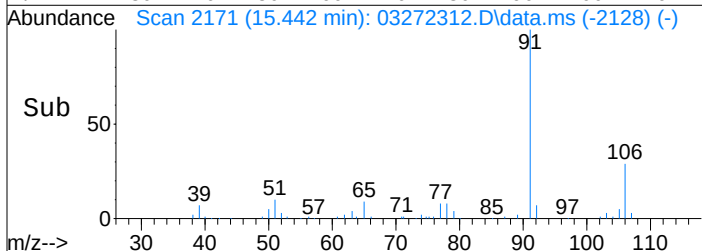
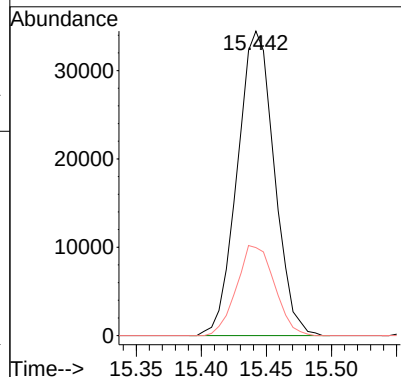
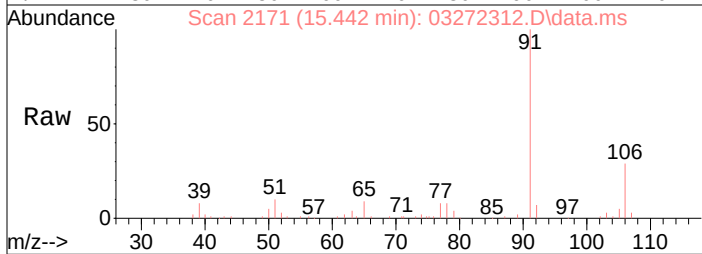
Tgt Ion:	166	Resp:	843930
Ion Ratio		Lower	Upper
166	100		
164	77.7	57.3	97.3





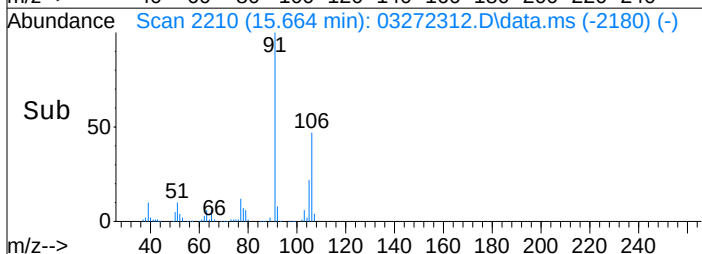
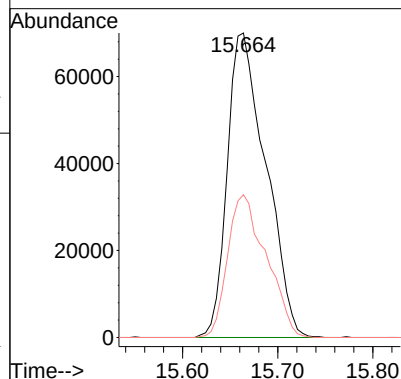
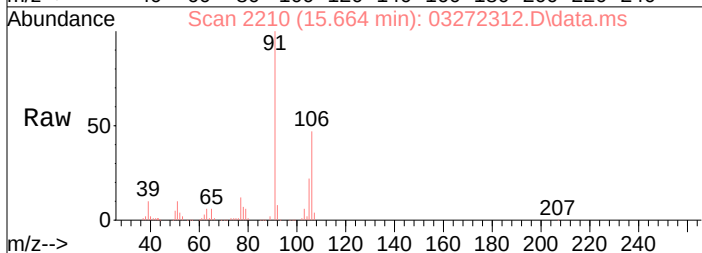
#66
Ethylbenzene
Concen: 0.59 ng
RT: 15.44 min Scan# 2171
Delta R.T. -0.006 min
Lab File: 03272312.D
Acq: 27 Mar 2023 10:23

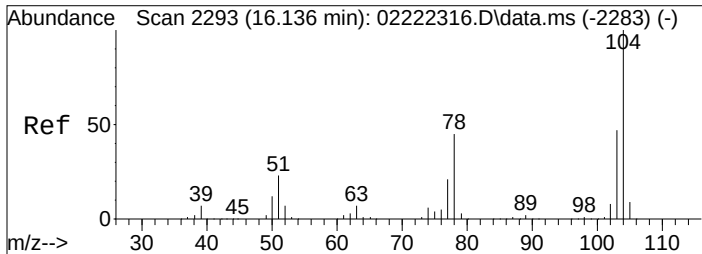
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	68057		
106	30.3	10.4	50.4	



#67
m- & p-Xylenes
Concen: 2.14 ng
RT: 15.66 min Scan# 2210
Delta R.T. -0.029 min
Lab File: 03272312.D
Acq: 27 Mar 2023 10:23

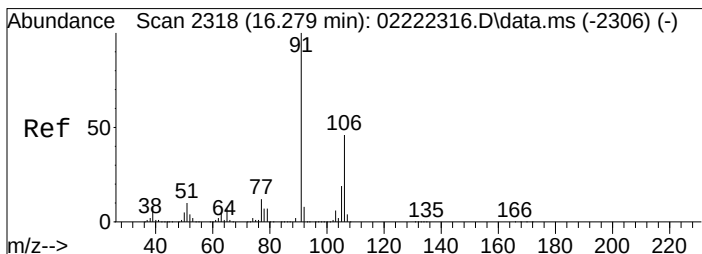
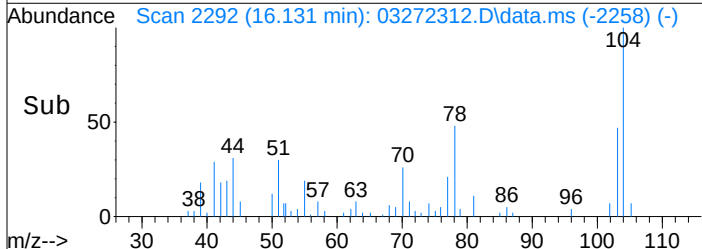
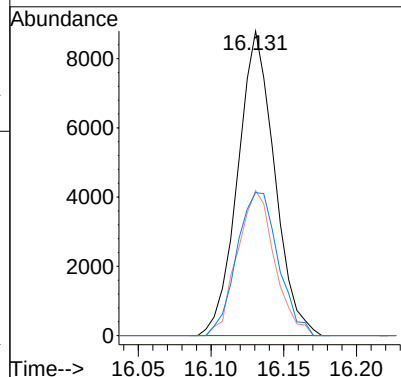
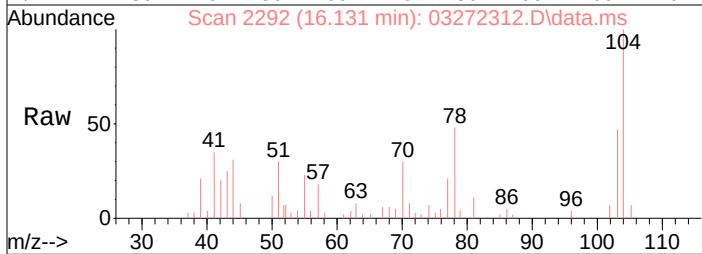
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	197037		
106	47.1	26.2	66.2	





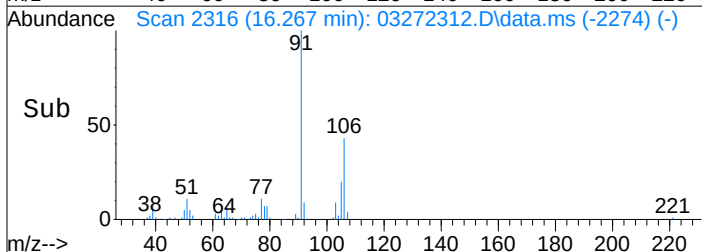
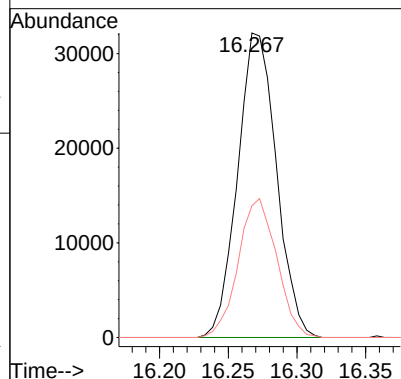
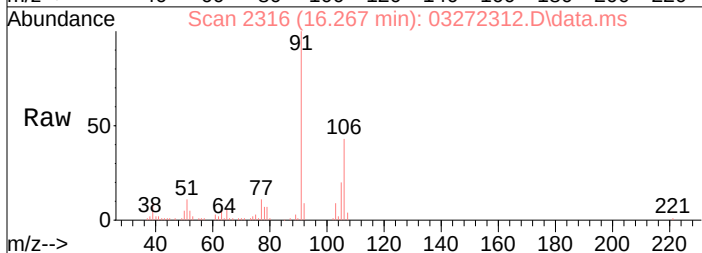
#69
Styrene
Concen: 0.24 ng
RT: 16.13 min Scan# 2292
Delta R.T. -0.006 min
Lab File: 03272312.D
Acq: 27 Mar 2023 10:23

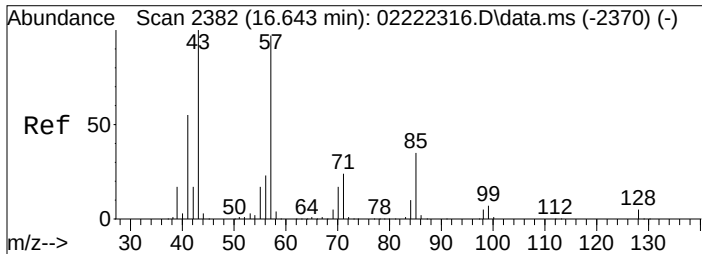
Tgt Ion: 104	Resp: 15449
Ion Ratio	Lower Upper
104 100	
78 48.2	24.7 64.7
103 52.9	27.8 67.8



#70
o-Xylene
Concen: 0.72 ng
RT: 16.27 min Scan# 2316
Delta R.T. -0.011 min
Lab File: 03272312.D
Acq: 27 Mar 2023 10:23

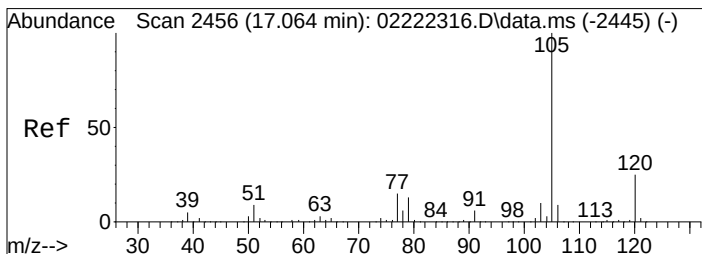
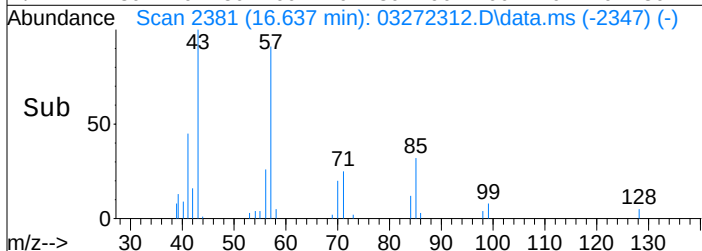
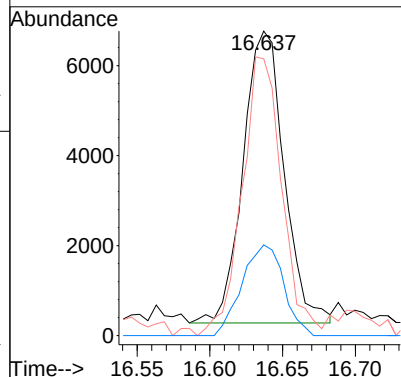
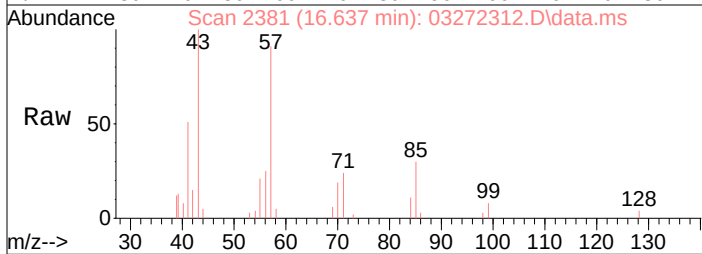
Tgt Ion: 91	Resp: 63232
Ion Ratio	Lower Upper
91 100	
106 45.3	25.4 65.4





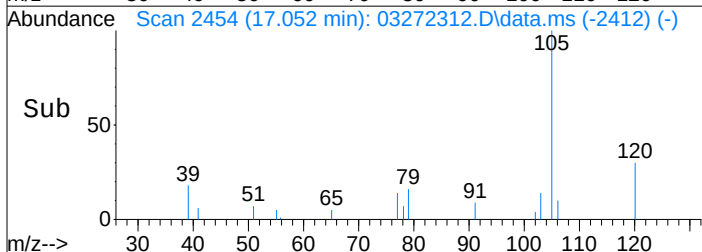
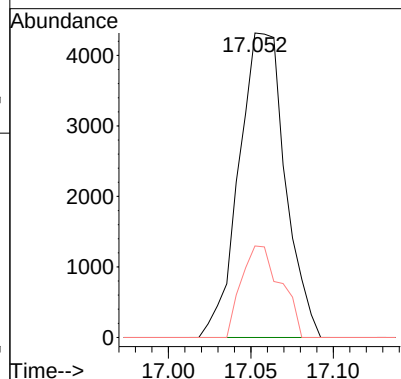
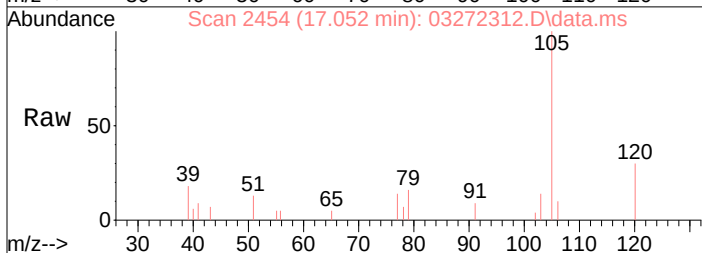
#71
 n-Nonane
 Concen: 0.30 ng
 RT: 16.64 min Scan# 2381
 Delta R.T. -0.006 min
 Lab File: 03272312.D
 Acq: 27 Mar 2023 10:23

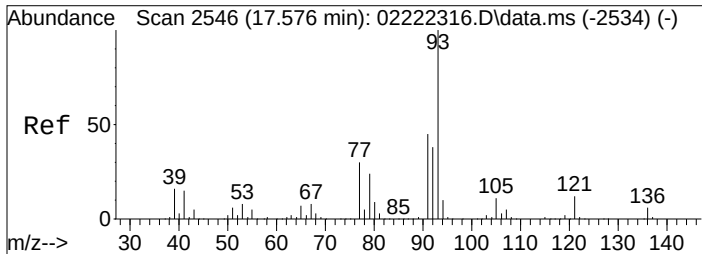
Tgt Ion:	43	Resp:	12729
Ion Ratio		Lower	Upper
43	100		
57	92.5	74.2	114.2
85	31.5	14.2	54.2



#74
 Cumene
 Concen: 0.08 ng
 RT: 17.05 min Scan# 2454
 Delta R.T. -0.011 min
 Lab File: 03272312.D
 Acq: 27 Mar 2023 10:23

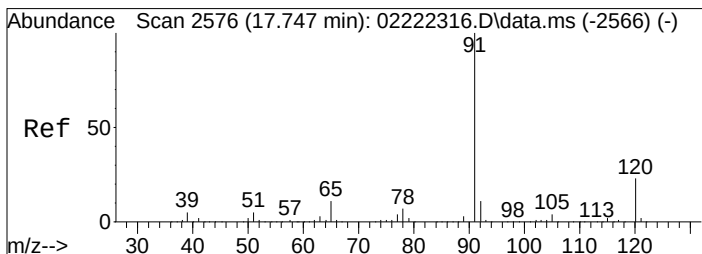
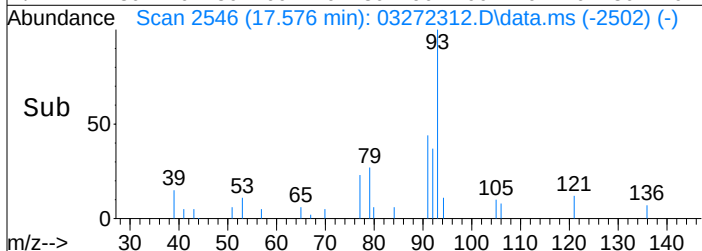
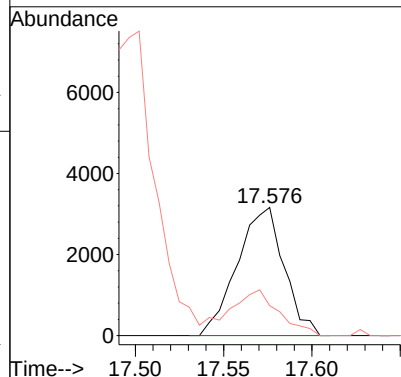
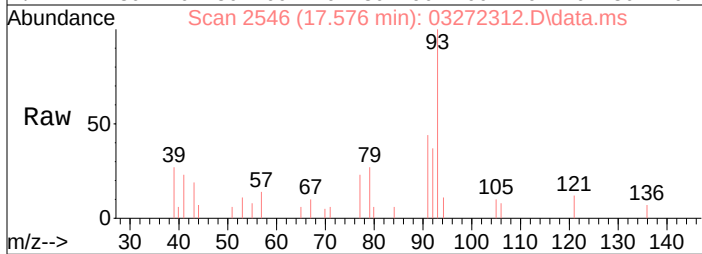
Tgt Ion:	105	Resp:	8423
Ion Ratio		Lower	Upper
105	100		
120	25.5	5.2	45.2





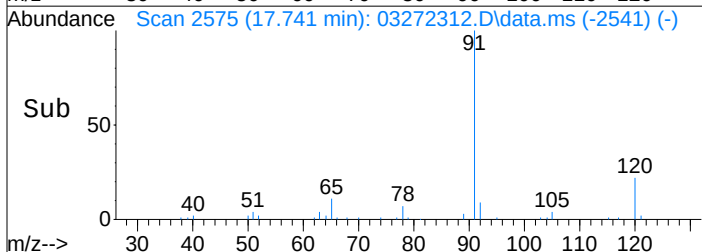
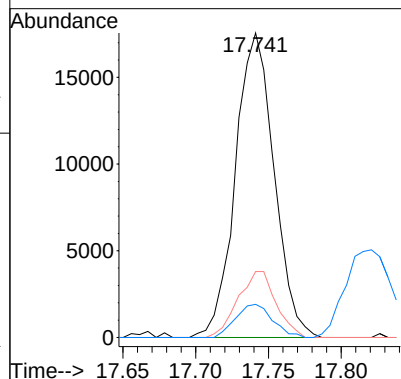
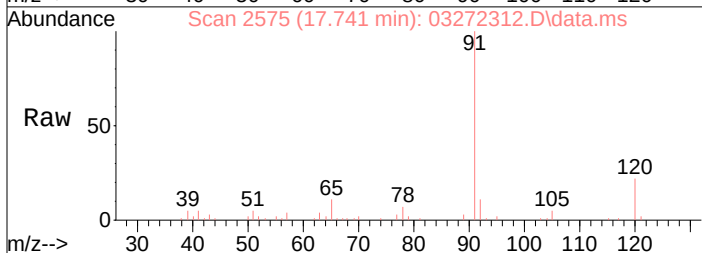
#75
 alpha-Pinene
 Concen: 0.12 ng
 RT: 17.58 min Scan# 2546
 Delta R.T. -0.000 min
 Lab File: 03272312.D
 Acq: 27 Mar 2023 10:23

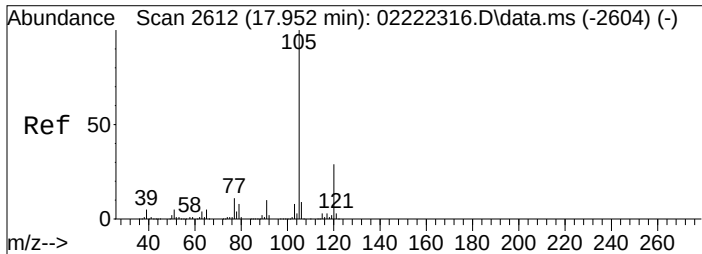
Tgt Ion:	93	Resp:	5831
Ion Ratio	Lower	Upper	
93	100		
77	33.1	11.1	51.1



#76
 n-Propylbenzene
 Concen: 0.25 ng
 RT: 17.74 min Scan# 2575
 Delta R.T. -0.006 min
 Lab File: 03272312.D
 Acq: 27 Mar 2023 10:23

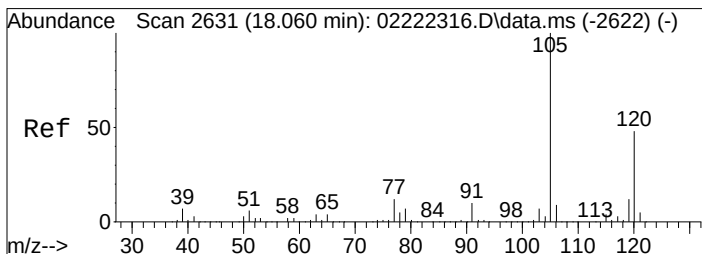
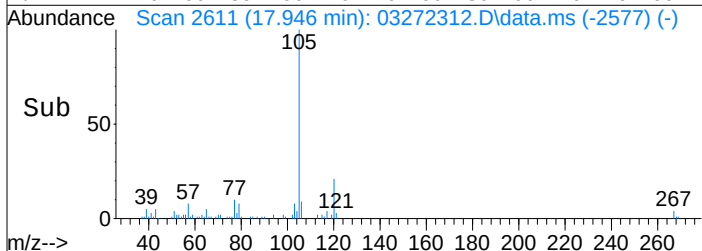
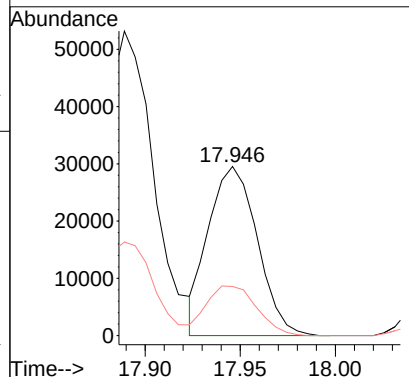
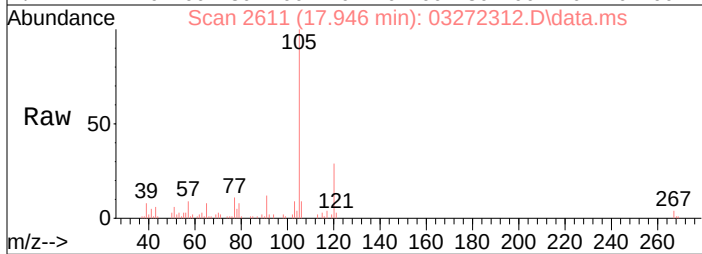
Tgt Ion:	91	Resp:	32423
Ion Ratio	Lower	Upper	
91	100		
120	21.3	2.7	42.7
65	10.4	0.0	30.7





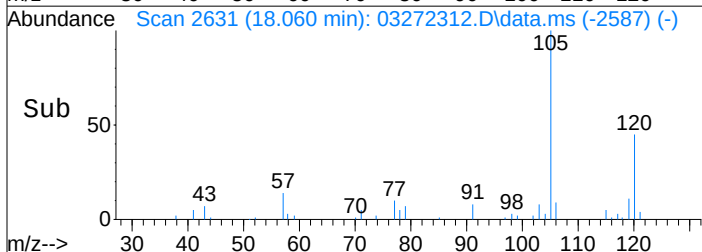
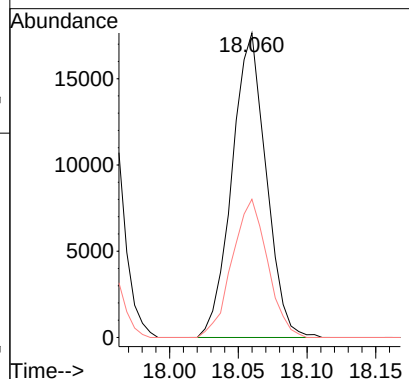
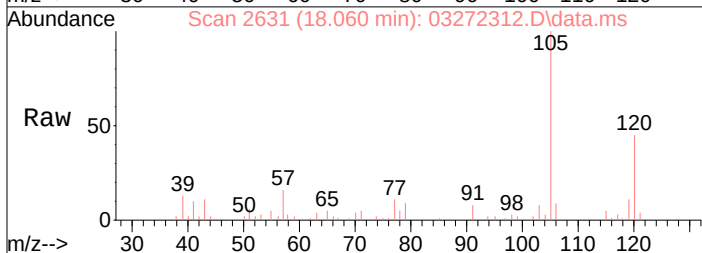
#78
 4-Ethyltoluene
 Concen: 0.51 ng
 RT: 17.95 min Scan# 2611
 Delta R.T. -0.006 min
 Lab File: 03272312.D
 Acq: 27 Mar 2023 10:23

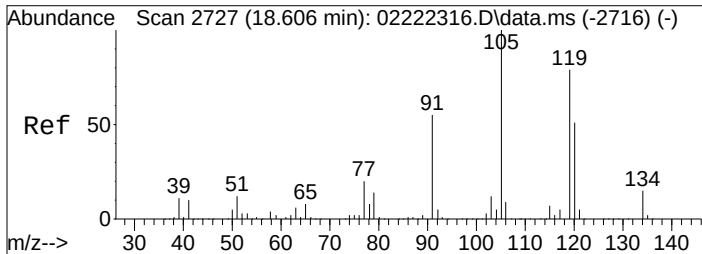
Tgt Ion:	105	Resp:	52812
Ion Ratio	Lower	Upper	
105	100		
120	30.1	9.1	49.1



#79
 1,3,5-Trimethylbenzene
 Concen: 0.34 ng
 RT: 18.06 min Scan# 2631
 Delta R.T. -0.000 min
 Lab File: 03272312.D
 Acq: 27 Mar 2023 10:23

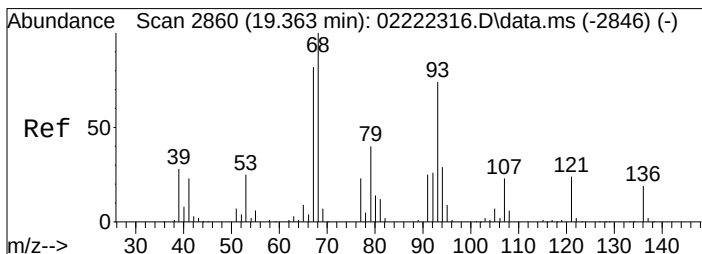
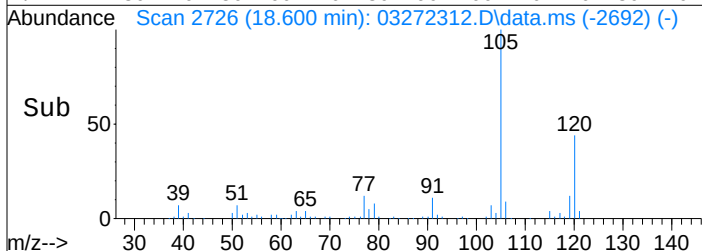
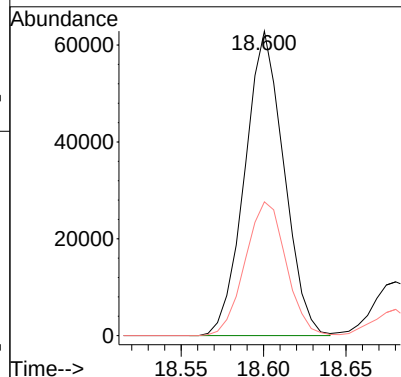
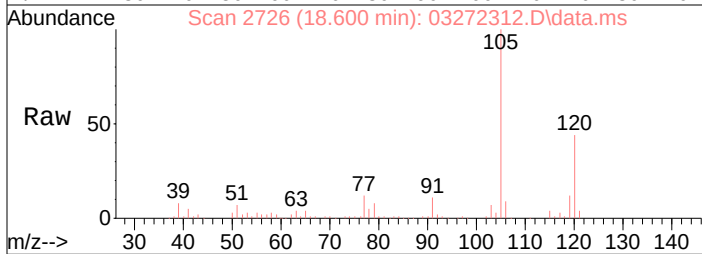
Tgt Ion:	105	Resp:	30517
Ion Ratio	Lower	Upper	
105	100		
120	47.1	28.4	68.4





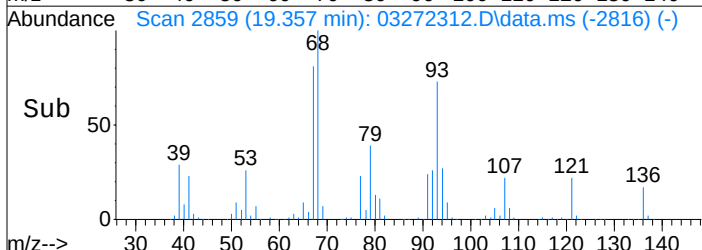
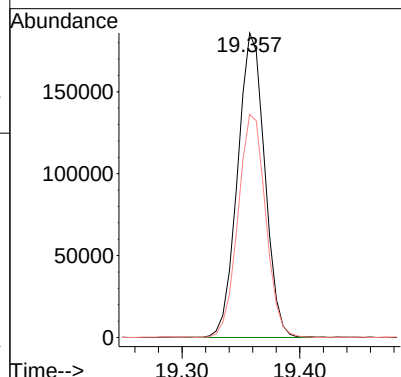
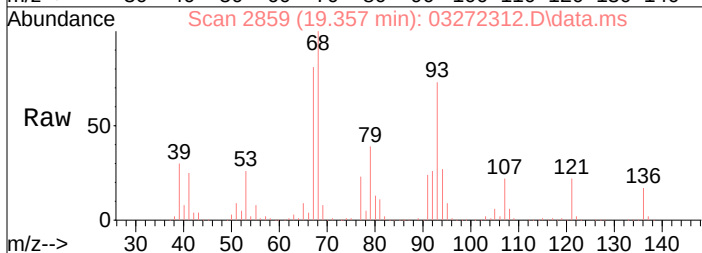
#82
 1,2,4-Trimethylbenzene
 Concen: 1.16 ng
 RT: 18.60 min Scan# 2726
 Delta R.T. -0.006 min
 Lab File: 03272312.D
 Acq: 27 Mar 2023 10:23

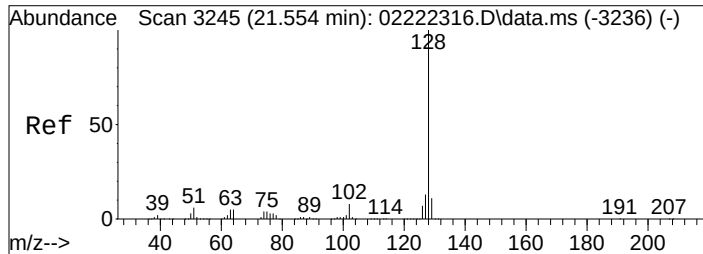
Tgt Ion:	105	Resp:	104019
Ion Ratio		Lower	Upper
105	100		
120	45.8	32.8	72.8



#91
 d-Limonene
 Concen: 9.85 ng
 RT: 19.36 min Scan# 2859
 Delta R.T. -0.006 min
 Lab File: 03272312.D
 Acq: 27 Mar 2023 10:23

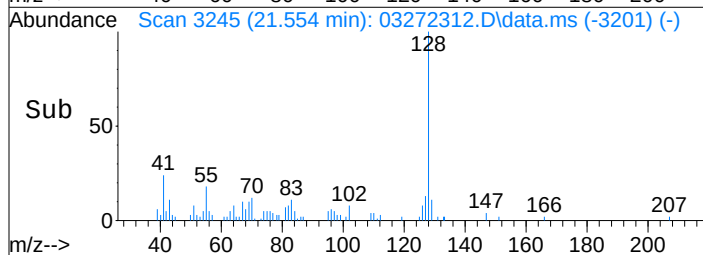
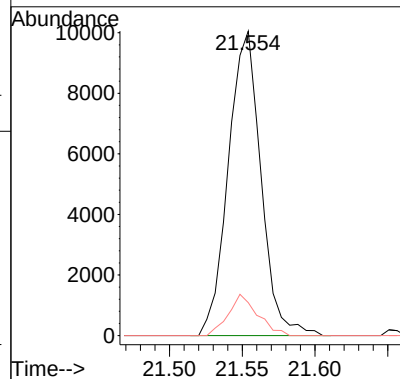
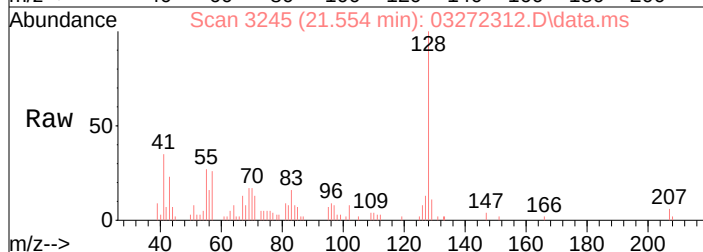
Tgt Ion:	68	Resp:	298782
Ion Ratio		Lower	Upper
68	100		
93	74.6	54.8	94.8





#95
 Naphthalene
 Concen: 0.16 ng
 RT: 21.55 min Scan# 3245
 Delta R.T. -0.000 min
 Lab File: 03272312.D
 Acq: 27 Mar 2023 10:23

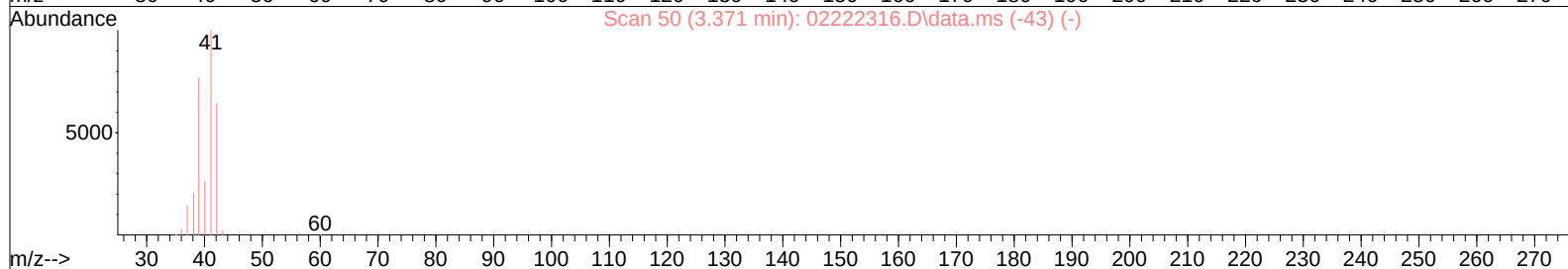
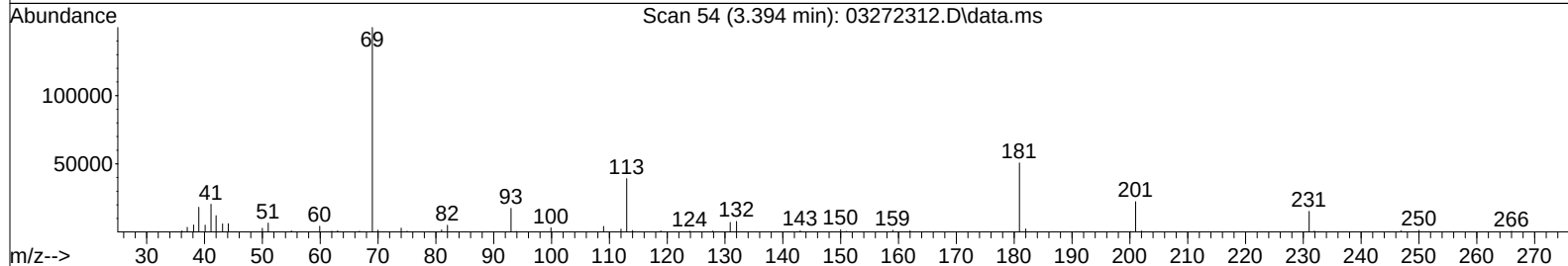
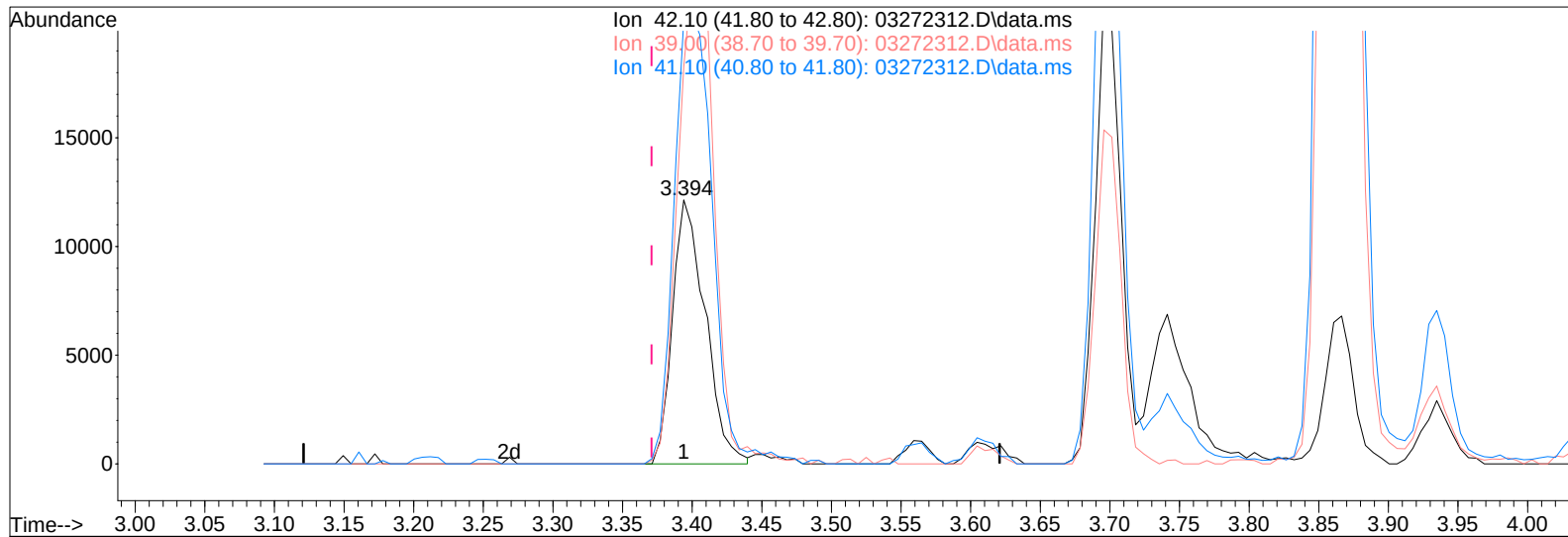
Tgt Ion:128 Resp: 15714
 Ion Ratio Lower Upper
 128 100
 129 12.1 0.0 30.9



Data File : I:\MS13\DATA\2023_03\27\03272312.D
Acq On : 27 Mar 2023 10:23
Sample : P2301250-027 (1000mL)
Misc : S35-01202301

Vial: 2
Operator: TZ
Inst : MS13

Quant Time: Mar 27 11:24:23 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03272312.D\data.ms

(2) Propene (T)

3.394min (+0.023) 0.86ng

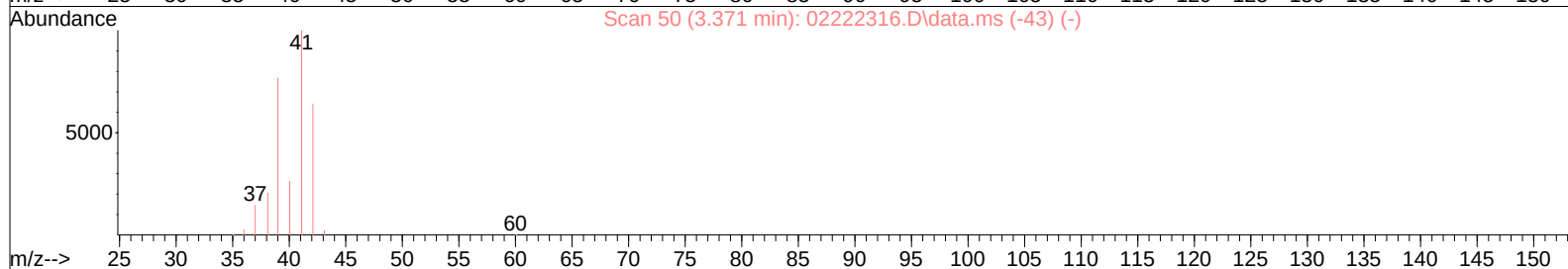
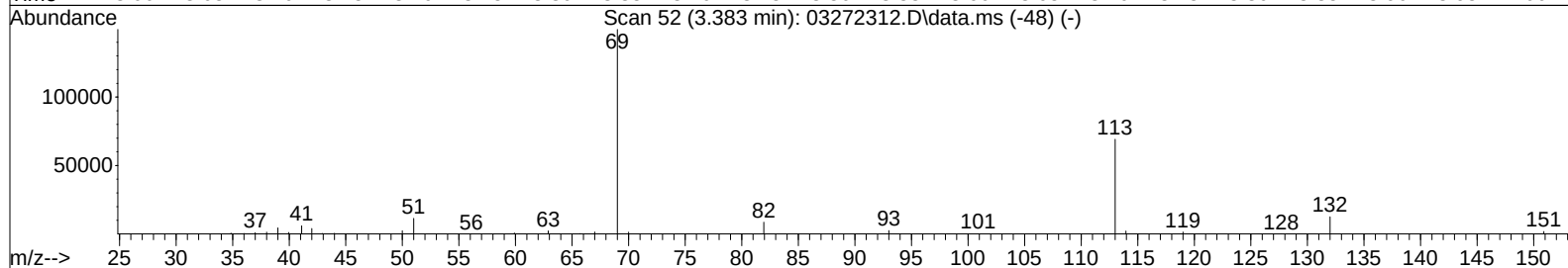
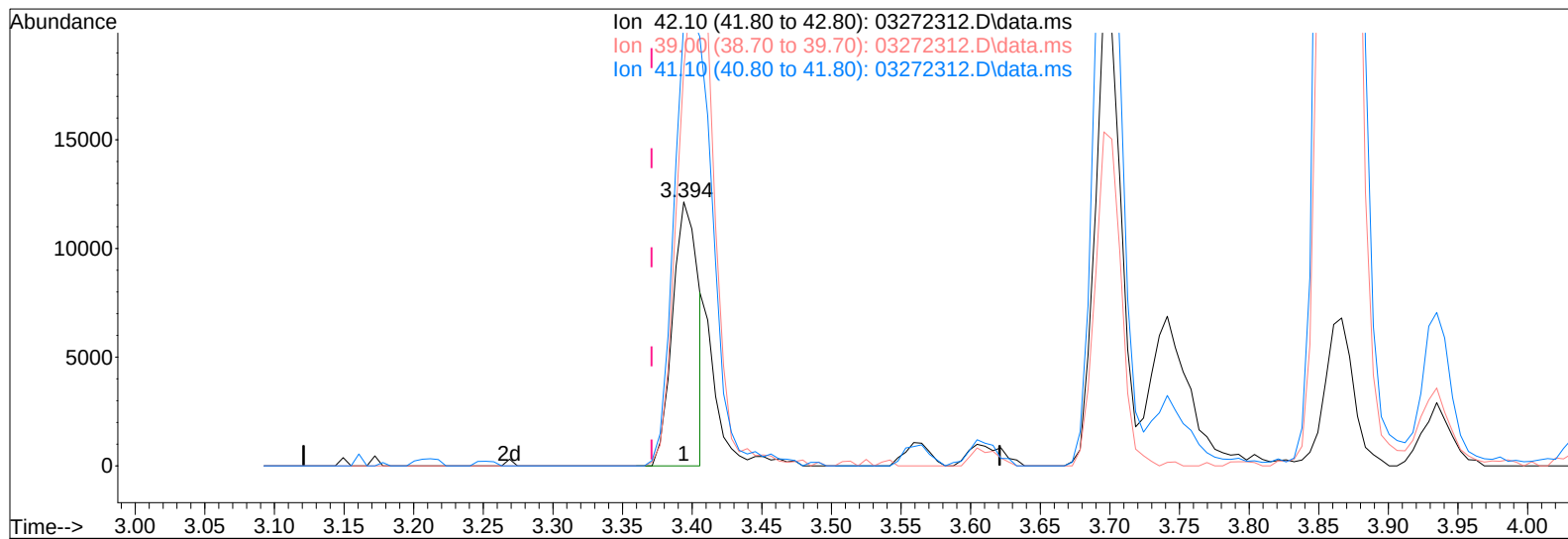
response 19807

Ion	Exp%	Act%
42.10	100	100
39.00	120.70	210.31#
41.10	154.40	201.18#
0.00	0.00	0.00

Data File : I:\MS13\DATA\2023_03\27\03272312.D
Acq On : 27 Mar 2023 10:23
Sample : P2301250-027 (1000mL)
Misc : S35-01202301

Vial: 2
Operator: TZ
Inst : MS13

Quant Time: Mar 27 11:24:23 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03272312.D\data.ms

(2) Propene (T)

3.394min (+0.023) 0.67ng m

response 15449

Ion	Exp%	Act%
-----	------	------

42.10	100	100
-------	-----	-----

IPC

39.00	120.70	269.64#
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41.10	154.40	257.93#
-------	--------	---------

TZ 3/28/23

3/28/23

0.00	0.00	0.00
------	------	------

Data File : I:\MS13\DATA\2023_03\27\03272312.D
 Acq On : 27 Mar 2023 10:23
 Sample : P2301250-027 (1000mL)
 Misc : S35-01202301

Vial: 2
 Operator: TZ
 Inst : MS13

TZ 3/28/23

Quant Time: Mar 28 11:18:40 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.32	130	229387	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	9.38	114	1007844	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	14.87	54	196210	12.500	ng	0.00

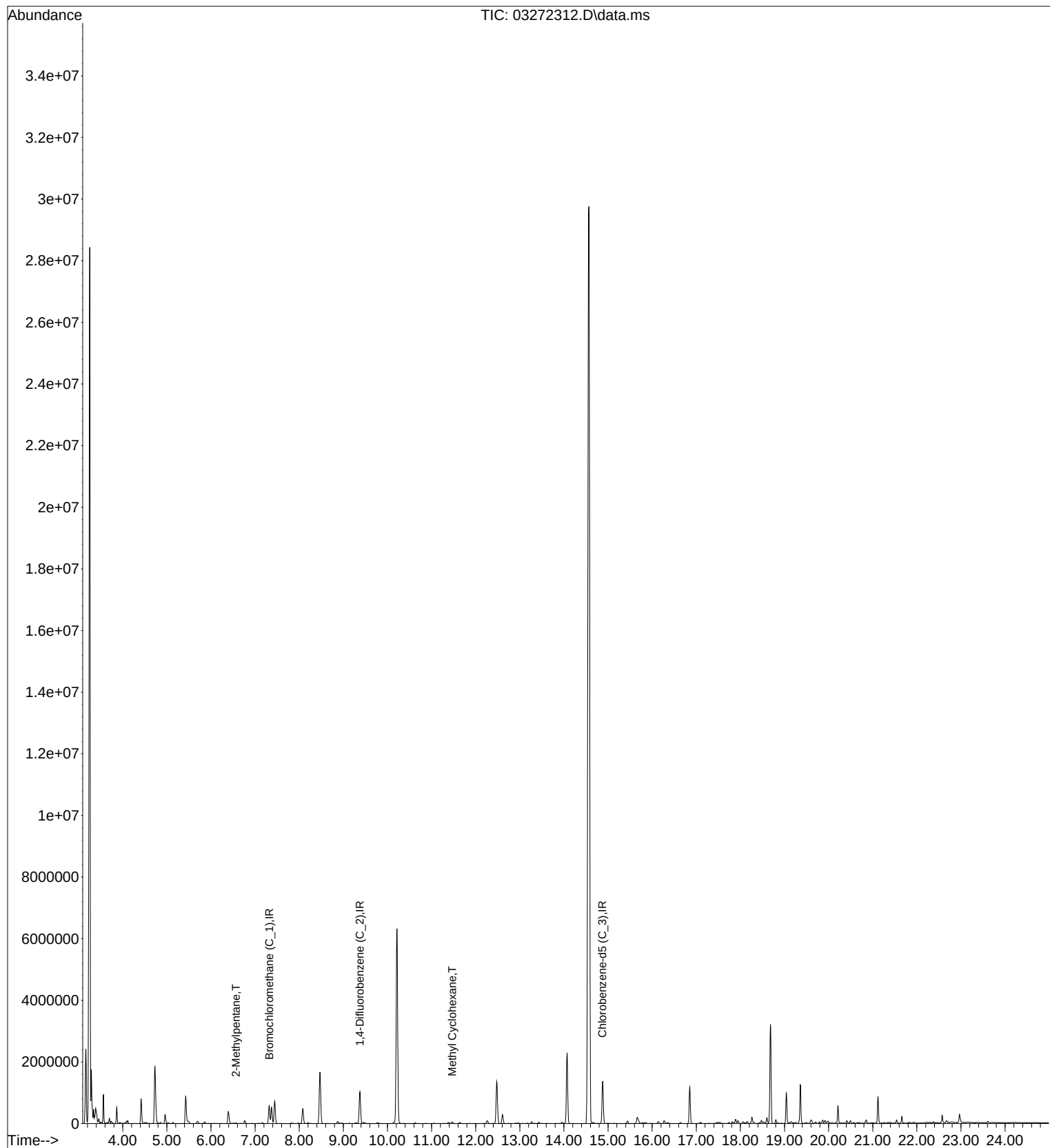
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.23	85	1043	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	0.00	83	0	N.D. d		
4) 1,1-Difluoroethane	0.00	65	0	N.D. d		
5) Chlorodifluoromethane ...	0.00	67	0	N.D. d		
6) 1-Chloro-1,1-Difluoroe...	3.60	65	3026	N.D.		
7) Dichlorofluoromethane ...	4.34	67	76	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	4.68	83	229	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D. d		
11) Methyl Acetate	0.00	43	0	N.D. d		
12) 2-Methylpentane	6.57	71	4890	0.305 ng	#	1
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	9.14	84	1682	N.D.		
17) 2,3-Dimethylpentane	9.58	56	2704	N.D.		
18) Dibromomethane	9.87	174	387	N.D.		
20) Methyl Cyclohexane	11.47	55	22782	0.698 ng		86
21) 1,3-Dichloropropane	12.61	76	1457	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	15.23	91	354	N.D.		
24) 1,2,3-Trichloropropane	16.36	75	2302	N.D.		
25) Bromobenzene	17.06	77	1335	N.D.		
26) 2-Chlorotoluene	17.67	91	344	N.D.		
27) 4-Chlorotoluene	0.00	91	0	N.D. d		
28) Indane	0.00	117	0	N.D. d		
29) Indene	19.50	115	993	N.D.		
30) 1,2,4,5-Tetramethylben...	20.64	119	5821	N.D.		
31) 1,2,3,4-Tetramethylben...	20.70	119	8572	N.D.		
32) 1,2,3,5-Tetramethylben...	21.14	119	7386	N.D.		
33) 1,2,3-Trichlorobenzene	21.86	180	168	N.D.		

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

Data File : I:\MS13\DATA\2023_03\27\03272312.D
Acq On : 27 Mar 2023 10:23
Sample : P2301250-027 (1000mL)
Misc : S35-01202301

Vial: 2
Operator: TZ
Inst : MS13

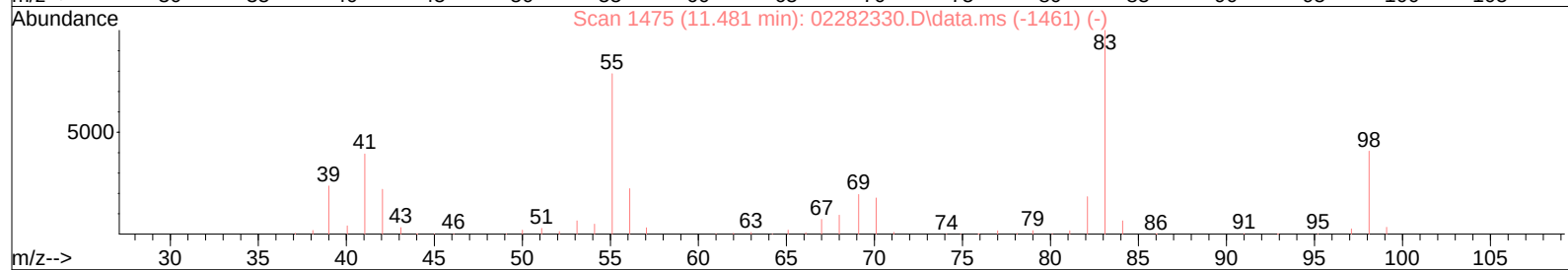
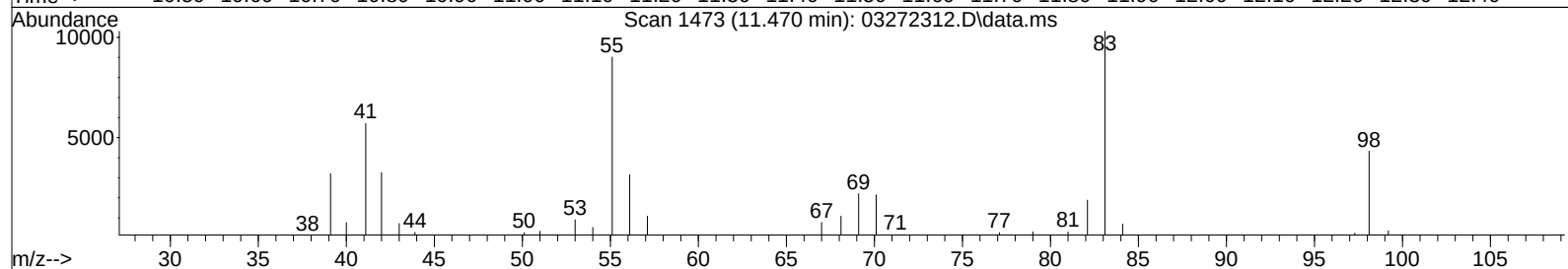
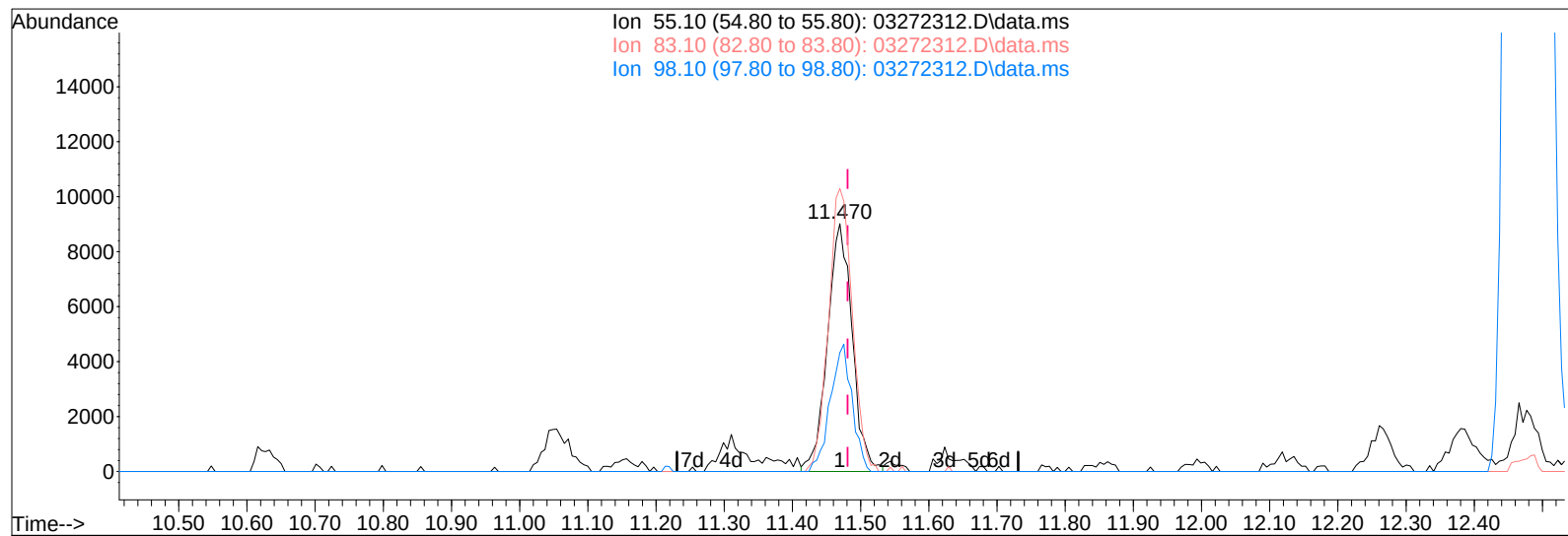
Quant Time: Mar 28 11:18:40 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\27\03272312.D
Acq On : 27 Mar 2023 10:23
Sample : P2301250-027 (1000mL)
Misc : S35-01202301

Vial: 2
Operator: TZ
Inst : MS13

Quant Time: Mar 28 11:18:01 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03272312.D\data.ms

(20) Methyl Cyclohexane (T)

11.470min (-0.011) 0.70ng

response 22782

Ion	Exp%	Act%
55.10	100	100
83.10	128.30	110.08
98.10	53.10	45.12
0.00	0.00	0.00

Data File : I:\MS13\DATA\2023_03\27\03272315.D
 Acq On : 27 Mar 2023 12:16
 Sample : P2301250-027dil (100mL)
 Misc : S35-01202301

Vial: 2
 Operator: TZ
 Inst : MS13

Tz 3/28/23

Quant Time: Mar 28 11:05:26 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.30	130	230248	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	9.36	114	974430	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.87	54	185143	12.500	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.07	65	391854	12.824	ng	-0.04
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.56%
57) Toluene-d8 (SS2)	12.47	98	1109532	11.653	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.20%
73) Bromofluorobenzene (SS3)	16.85	174	420193	12.049	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	96.40%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	3.45	85	5773	0.137	ng	96
4) Chloromethane	3.64	50	274	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	4.38	45	86220	5.273	ng	100
11) Acetonitrile	4.55	41	372	N.D.		
12) Acrolein	4.65	56	309	N.D.		
13) Acetone	4.73	58	71963	5.156	ng	96
14) Trichlorofluoromethane	4.87	101	2424	0.064	ng	90
15) 2-Propanol (Isopropanol)	4.94	45	40176	0.713	ng	80
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.45	84	3258	0.159	ng	88
20) 3-Chloro-1-propene (Al...	5.55	41	193	N.D.		
21) Trichlorotrifluoroethane	5.69	151	537	N.D.		
22) Carbon Disulfide	5.72	76	14434	0.178	ng	98
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	6.40	63	5691	0.156	ng	98
25) Methyl tert-Butyl Ether	6.39	73	293	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone (MEK)	6.76	72	2087	0.168	ng	# 53
28) cis-1,2-Dichloroethene	7.15	61	1640	0.056	ng	92
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	7.37	61	7550	0.927	ng	100
31) n-Hexane	7.38	57	575	N.D.		
32) Chloroform	7.43	83	54834	1.478	ng	100
34) Tetrahydrofuran (THF)	7.86	72	396	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	N.D.		
38) 1,1,1-Trichloroethane	8.46	97	115758	3.589	ng	99
39) Isopropyl Acetate	9.36	61	27682	No Calib		
40) 1-Butanol	8.91	56	3779	No Calib	#	
41) Benzene	8.97	78	1743	N.D.		
42) Carbon Tetrachloride	9.14	117	1046	N.D.		
43) Cyclohexane	9.28	84	1230	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	10.14	83	3291	0.117	ng	87
47) Trichloroethene	10.21	130	264125	11.893	ng	100
48) 1,4-Dioxane	10.20	88	311	N.D.		
49) 2,2,4-Trimethylpentane...	10.29	57	128	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS13\DATA\2023_03\27\03272315.D
 Acq On : 27 Mar 2023 12:16
 Sample : P2301250-027dil (100mL)
 Misc : S35-01202301

Vial: 2
 Operator: TZ
 Inst : MS13

Quant Time: Mar 28 11:05:26 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

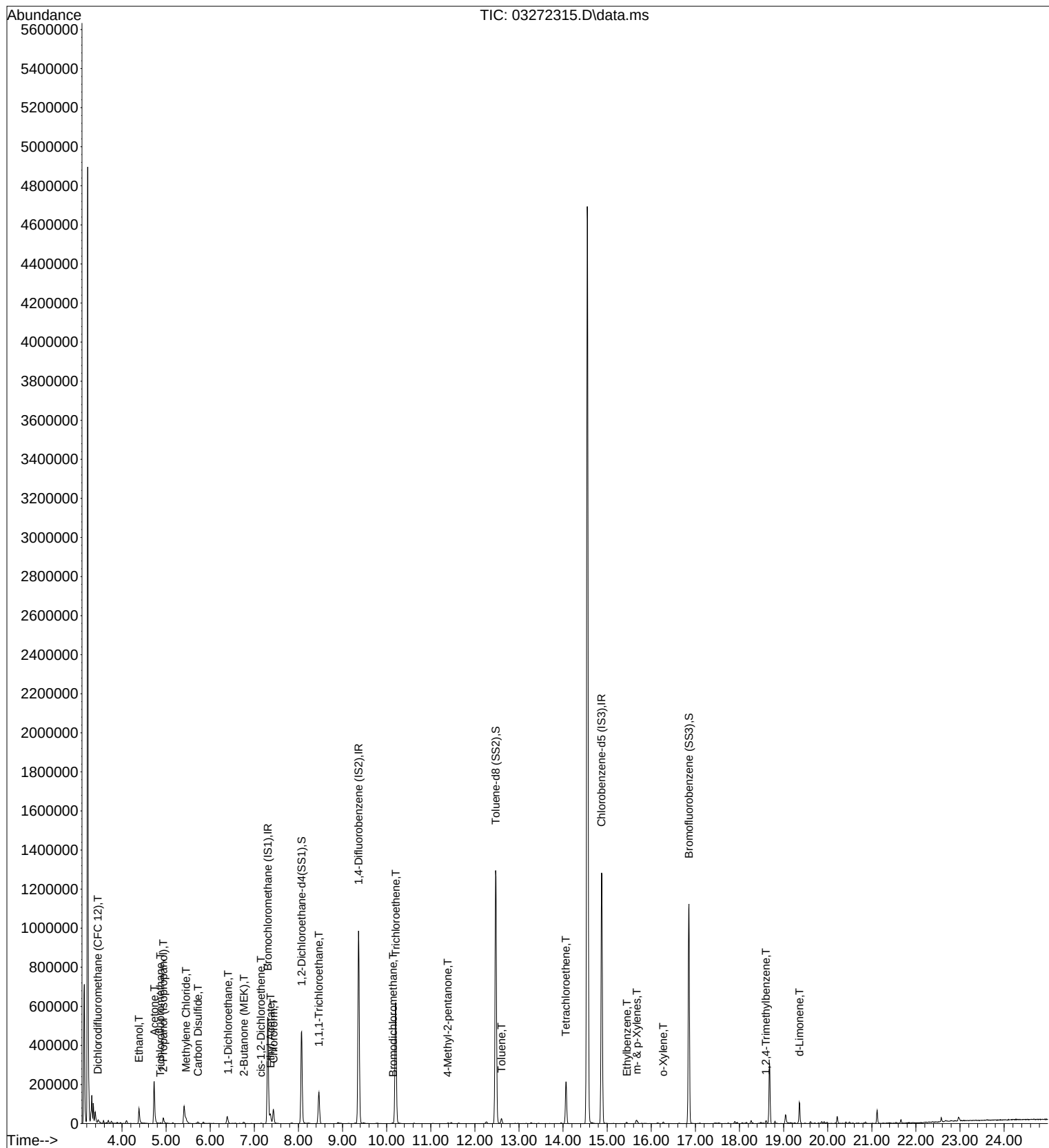
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.62	71	284	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.38	58	828	0.051 ng	#	50
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.60	91	23058	0.254 ng		100
59) 2-Hexanone	12.98	43	1401	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.83	43	808	N.D.		
63) n-Octane	13.95	57	702	N.D.		
64) Tetrachloroethene	14.06	166	80466	2.918 ng		100
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	15.45	91	6551	0.061 ng		93
67) m- & p-Xylenes	15.67	91	17933	0.206 ng		96
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.13	104	1397	N.D.		
70) o-Xylene	16.27	91	5788	0.070 ng		95
71) n-Nonane	16.63	43	1303	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	17.06	105	997	N.D.		
75) alpha-Pinene	17.57	93	497	N.D.		
76) n-Propylbenzene	17.74	91	3494	N.D.		
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	4694	N.D.		
79) 1,3,5-Trimethylbenzene	18.06	105	2821	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.60	105	9341	0.110 ng		81
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	18.75	91	181	N.D.		
85) 1,3-Dichlorobenzene	18.78	146	146	N.D.		
86) 1,4-Dichlorobenzene	18.78	146	146	N.D.		
87) sec-Butylbenzene	18.96	105	427	N.D.		
88) 4-Isopropyltoluene (p-...	19.18	119	1686	N.D.		
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	19.36	68	24007	0.839 ng		98
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.26	58	651	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	640	N.D.		
95) Naphthalene	21.57	128	2072	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	21.99	225	154	N.D.		
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	18.60	119	1448	N.D.		
100) n-Butylbenzene	19.72	91	901	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\27\03272315.D
Acq On : 27 Mar 2023 12:16
Sample : P2301250-027dil (100mL)
Misc : S35-01202301

Vial: 2
Operator: TZ
Inst : MS13

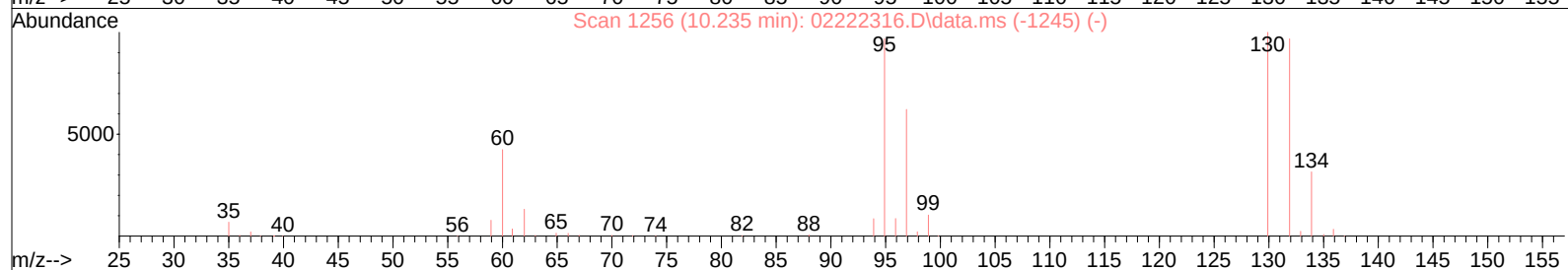
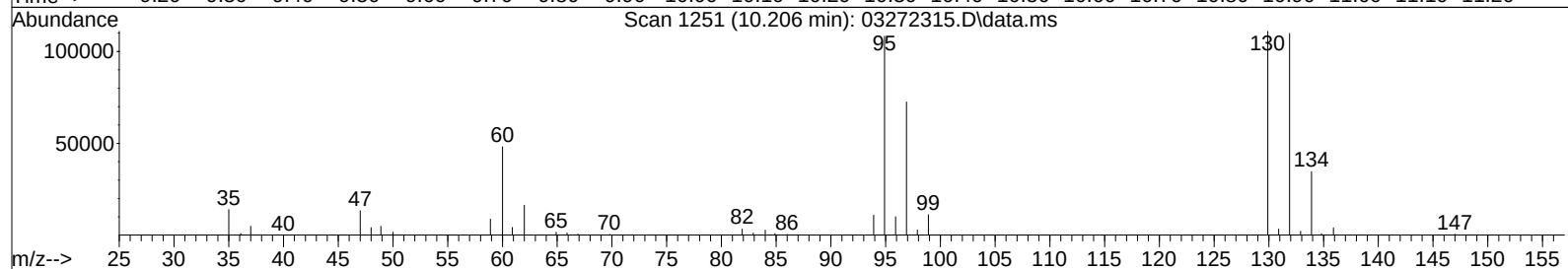
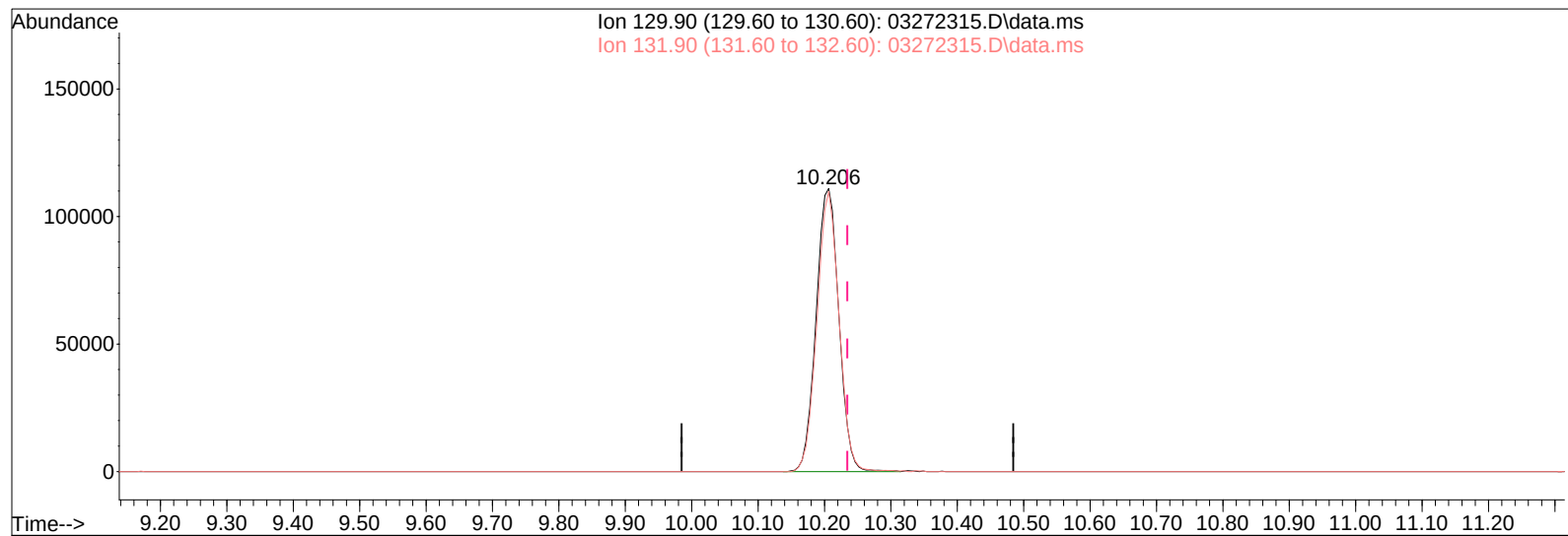
Quant Time: Mar 28 11:05:26 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\27\03272315.D
Acq On : 27 Mar 2023 12:16
Sample : P2301250-027dil (100mL)
Misc : S35-01202301

Vial: 2
Operator: TZ
Inst : MS13

Quant Time: Mar 27 13:26:06 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03272315.D\data.ms

(47) Trichloroethene (T)

10.206min (-0.029) 11.89ng

response 264125

Ion	Exp%	Act%
129.90	100	100
131.90	96.30	95.95
0.00	0.00	0.00
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: SS-031523B

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-028

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02414

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.03 Final Pressure (psig): 3.61

Container Dilution Factor: 1.72

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.3	0.91	0.15	0.47	0.18	0.030	
74-87-3	Chloromethane	0.25	0.36	0.15	0.12	0.17	0.072	J
75-01-4	Vinyl Chloride	ND	0.19	0.098	ND	0.074	0.038	
74-83-9	Bromomethane	0.13	0.36	0.13	0.033	0.093	0.033	J
75-00-3	Chloroethane	ND	0.36	0.11	ND	0.14	0.043	
67-64-1	Acetone	250	9.1	2.1	110	3.8	0.87	
75-69-4	Trichlorofluoromethane	1.1	0.89	0.14	0.20	0.16	0.025	
75-35-4	1,1-Dichloroethene	ND	0.19	0.13	ND	0.048	0.032	
75-09-2	Methylene Chloride	3.5	0.91	0.26	1.0	0.26	0.074	
76-13-1	Trichlorotrifluoroethane	0.47	0.93	0.13	0.062	0.12	0.017	J
75-15-0	Carbon Disulfide	ND	1.8	0.28	ND	0.59	0.088	
156-60-5	trans-1,2-Dichloroethene	ND	0.19	0.13	ND	0.048	0.032	
75-34-3	1,1-Dichloroethane	0.90	0.19	0.13	0.22	0.047	0.033	
1634-04-4	Methyl tert-Butyl Ether	ND	0.93	0.11	ND	0.26	0.030	
78-93-3	2-Butanone (MEK)	8.9	1.8	0.19	3.0	0.61	0.064	
156-59-2	cis-1,2-Dichloroethene	ND	0.19	0.13	ND	0.048	0.033	
67-66-3	Chloroform	3.9	0.19	0.12	0.81	0.039	0.025	
107-06-2	1,2-Dichloroethane	ND	0.19	0.10	ND	0.047	0.025	
71-55-6	1,1,1-Trichloroethane	6.0	0.19	0.11	1.1	0.035	0.021	
71-43-2	Benzene	0.35	0.19	0.13	0.11	0.059	0.041	
56-23-5	Carbon Tetrachloride	0.28	0.19	0.13	0.045	0.030	0.020	
110-82-7	Cyclohexane	ND	1.8	0.26	ND	0.52	0.075	
78-87-5	1,2-Dichloropropane	ND	0.19	0.11	ND	0.041	0.025	
75-27-4	Bromodichloromethane	ND	0.19	0.13	ND	0.028	0.020	
79-01-6	Trichloroethene	67	0.19	0.12	12	0.035	0.023	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: SS-031523B

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-028

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02414

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.03 Final Pressure (psig): 3.61

Container Dilution Factor: 1.72

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.93	0.14	ND	0.20	0.031	
108-10-1	4-Methyl-2-pentanone	2.6	1.9	0.13	0.64	0.46	0.031	
10061-02-6	trans-1,3-Dichloropropene	ND	0.88	0.19	ND	0.19	0.042	
79-00-5	1,1,2-Trichloroethane	ND	0.19	0.093	ND	0.035	0.017	
108-88-3	Toluene	2.4	0.91	0.11	0.64	0.24	0.030	
591-78-6	2-Hexanone	2.0	1.9	0.11	0.48	0.46	0.028	
124-48-1	Dibromochloromethane	ND	0.19	0.12	ND	0.022	0.014	
106-93-4	1,2-Dibromoethane	ND	0.19	0.11	ND	0.025	0.014	
127-18-4	Tetrachloroethene	34	0.19	0.12	5.0	0.028	0.018	
108-90-7	Chlorobenzene	ND	0.91	0.12	ND	0.20	0.027	
100-41-4	Ethylbenzene	2.6	0.91	0.13	0.59	0.21	0.030	
179601-23-1	m,p-Xylenes	12	1.9	0.24	2.7	0.44	0.055	
75-25-2	Bromoform	ND	0.93	0.19	ND	0.090	0.018	
100-42-5	Styrene	0.45	0.91	0.15	0.11	0.21	0.035	J
95-47-6	o-Xylene	10	0.91	0.13	2.4	0.21	0.031	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.19	0.13	ND	0.028	0.019	
98-82-8	Cumene	9.3	0.93	0.13	1.9	0.19	0.027	
541-73-1	1,3-Dichlorobenzene	ND	0.91	0.14	ND	0.15	0.023	
106-46-7	1,4-Dichlorobenzene	ND	0.91	0.14	ND	0.15	0.023	
95-50-1	1,2-Dichlorobenzene	0.16	0.93	0.14	0.026	0.15	0.023	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.9	0.17	ND	0.20	0.018	
120-82-1	1,2,4-Trichlorobenzene	ND	1.9	0.22	ND	0.25	0.030	
79-20-9	Methyl Acetate	ND	0.86	0.41	ND	0.28	0.14	X
108-87-2	Methylcyclohexane	0.76	0.86	0.45	0.19	0.21	0.11	J, X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS13\DATA\2023_03\27\03272316.D
 Acq On : 27 Mar 2023 12:53
 Sample : P2301250-028 (1000mL)
 Misc : S35-01202301

Vial: 3
 Operator: TZ
 Inst : MS13

T2 3/28/23

Quant Time: Mar 28 11:08:57 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.33	130	228733	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	9.38	114	1011616	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	197129	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.09	65	397452	13.094	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	104.72%
57) Toluene-d8 (SS2)	12.48	98	1156006	11.403	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	91.20%
73) Bromofluorobenzene (SS3)	16.85	174	447890	12.062	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	96.48%

Target Compounds

						Qvalue
2) Propene	3.41	42	36589	1.599	ng	# 81
3) Dichlorodifluoromethan...	3.47	85	55993	1.337	ng	99
4) Chloromethane	3.62	50	4383	0.145	ng	91
5) 1,2-Dichloro-1,1,2,2-t...	3.72	135	1181	0.056	ng	95
6) Vinyl Chloride	3.79	62	1488	0.053	ng	86
7) 1,3-Butadiene	0.00	54	0	N.D.	d	
8) Bromomethane	4.13	94	1397	0.075	ng	92
9) Chloroethane	4.26	64	578	N.D.		
10) Ethanol	4.46	45	6700648	412.480	ng	99
11) Acetonitrile	0.00	41	0	N.D.	d	
12) Acrolein	4.65	56	5808	0.432	ng	93
13) Acetone	4.74	58	2013034	145.195	ng	97
14) Trichlorofluoromethane	4.86	101	24235	0.643	ng	98
15) 2-Propanol (Isopropanol)	5.00	45	538062	9.613	ng	97
16) Acrylonitrile	5.14	53	750	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.48	84	41672	2.050	ng	90
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	5.68	151	5449	0.275	ng	99
22) Carbon Disulfide	5.70	76	12067	0.150	ng	96
23) trans-1,2-Dichloroethene	6.24	61	413	N.D.		
24) 1,1-Dichloroethane	6.43	63	18924	0.523	ng	95
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.	d	
26) Vinyl Acetate	6.53	86	3597	0.959	ng	# 21
27) 2-Butanone (MEK)	6.76	72	64011	5.201	ng	99
28) cis-1,2-Dichloroethene	7.18	61	721	N.D.		
29) Diisopropyl Ether	7.37	87	664	N.D.		
30) Ethyl Acetate	7.37	61	40017	4.945	ng	95
31) n-Hexane	7.39	57	10802	0.347	ng	96
32) Chloroform	7.45	83	84452	2.292	ng	99
34) Tetrahydrofuran (THF)	0.00	72	0	N.D.	d	
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.	d	
36) 1,2-Dichloroethane	8.21	62	106	N.D.		
38) 1,1,1-Trichloroethane	8.48	97	116489	3.479	ng	99
39) Isopropyl Acetate	9.38	61	30087	No Calib	#	
40) 1-Butanol	8.90	56	2198562	No Calib	#	
41) Benzene	8.98	78	16144	0.205	ng	82
42) Carbon Tetrachloride	9.15	117	4834	0.164	ng	94
43) Cyclohexane	9.28	84	3745	0.130	ng	88
44) tert-Amyl Methyl Ether	9.63	73	1567	N.D.		
45) 1,2-Dichloropropane	9.92	63	774	N.D.		
46) Bromodichloromethane	10.16	83	1030	N.D.		
47) Trichloroethene	10.22	130	896076	38.867	ng	99
48) 1,4-Dioxane	0.00	88	0	N.D.	d	
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.	d	
50) Methyl Methacrylate	0.00	100	0	N.D.	d	

Data File : I:\MS13\DATA\2023_03\27\03272316.D
 Acq On : 27 Mar 2023 12:53
 Sample : P2301250-028 (1000mL)
 Misc : S35-01202301

Vial: 3
 Operator: TZ
 Inst : MS13

Quant Time: Mar 28 11:08:57 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

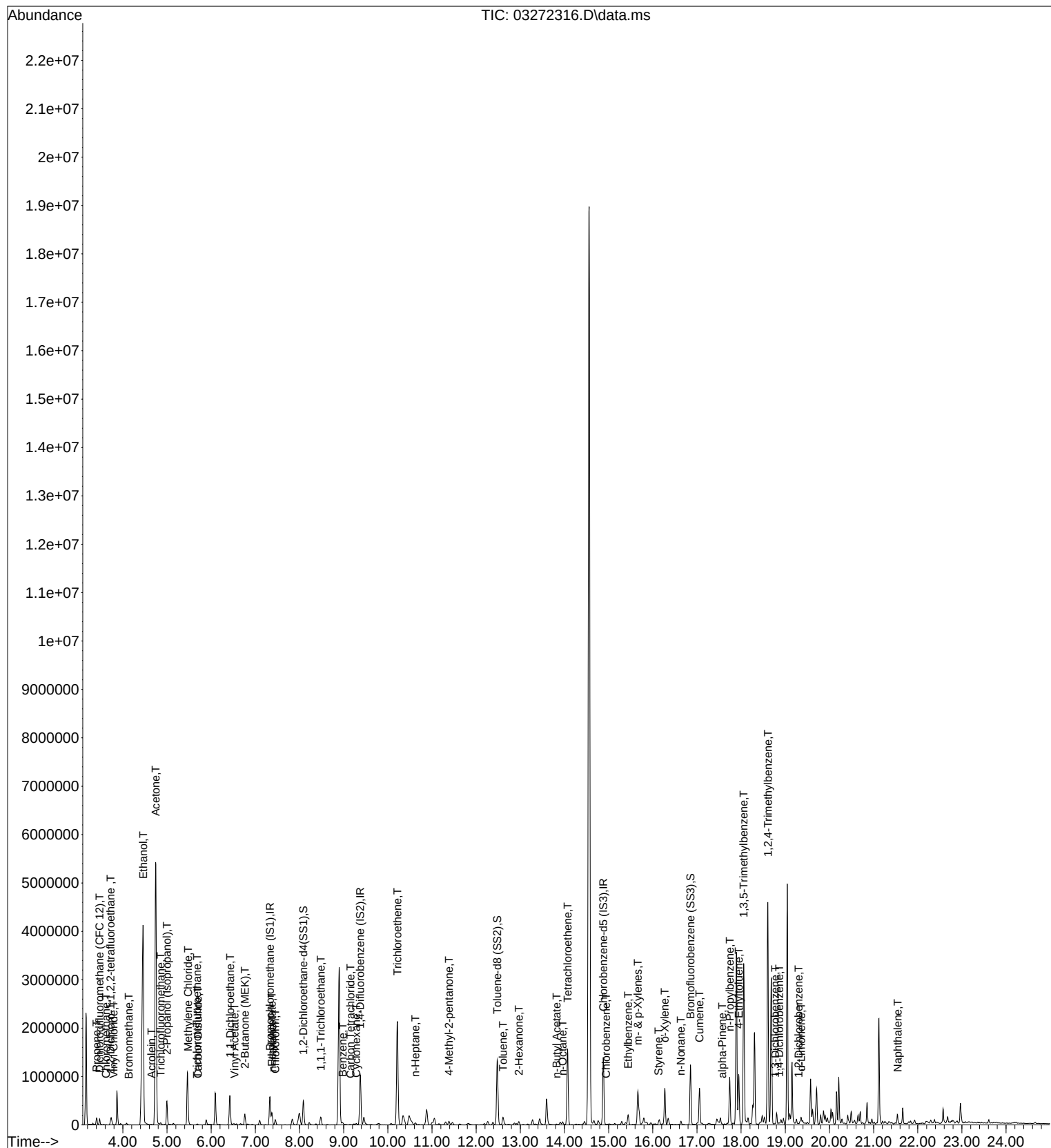
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.62	71	11645	0.611	ng	97
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.38	58	25726	1.516	ng	98
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.61	91	135235	1.401	ng	99
59) 2-Hexanone	12.97	43	53370	1.138	ng	91
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	13.44	107	122	N.D.		
62) n-Butyl Acetate	13.82	43	14831	0.278	ng	95
63) n-Octane	13.96	57	12599	0.664	ng	87
64) Tetrachloroethene	14.07	166	582547	19.841	ng	100
65) Chlorobenzene	14.94	112	4013	0.063	ng	96
66) Ethylbenzene	15.44	91	172412	1.497	ng	99
67) m- & p-Xylenes	15.66	91	621300	6.705	ng	98
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.13	104	16829	0.264	ng	93
70) o-Xylene	16.27	91	528410	5.964	ng	99
71) n-Nonane	16.64	43	30541	0.712	ng	96
72) 1,1,2,2-Tetrachloroethane	16.24	83	762	N.D.		
74) Cumene	17.06	105	580216	5.384	ng	100
75) alpha-Pinene	17.58	93	5381	0.108	ng	91
76) n-Propylbenzene	17.74	91	881029	6.820	ng	99
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	715409	6.920	ng	99
79) 1,3,5-Trimethylbenzene	18.06	105	2113421	23.119	ng	99
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.61	105	2903341	32.208	ng	89
83) n-Decane	17.06	58	5131	No Calib		
84) Benzyl Chloride	18.75	91	1353	N.D.		
85) 1,3-Dichlorobenzene	18.77	146	2796	0.051	ng	89
86) 1,4-Dichlorobenzene	18.86	146	3978	0.070	ng	98
87) sec-Butylbenzene	0.00	105	0	N.D.	d	
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.	d	
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.30	146	4884	0.091	ng	95
91) d-Limonene	19.36	68	26606	0.873	ng	84
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.26	58	8824	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	901	N.D.		
95) Naphthalene	21.55	128	12225	0.125	ng	95
96) n-Dodecane	19.15	58	15920	No Calib	#	
97) Hexachlorobutadiene	21.99	225	325	N.D.		
98) Cyclohexanone	15.68	55	2465	No Calib	#	
99) tert-Butylbenzene	0.00	119	0	N.D.	d	
100) n-Butylbenzene	0.00	91	0	N.D.	d	
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\27\03272316.D
Acq On : 27 Mar 2023 12:53
Sample : P2301250-028 (1000mL)
Misc : S35-01202301

Vial: 3
Operator: TZ
Inst : MS13

Quant Time: Mar 28 11:08:57 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\27\03272316.D
 Acq On : 27 Mar 2023 12:53
 Sample : P2301250-028 (1000mL)
 Misc : S35-01202301

Vial: 3
 Operator: TZ
 Inst : MS13

T2 3/28/23

Quant Time: Mar 28 11:08:57 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.33	130	228733	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	9.38	114	1011616	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	197129	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.09	65	397452	13.094	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	104.72%
57) Toluene-d8 (SS2)	12.48	98	1156006	11.403	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	91.20%
73) Bromofluorobenzene (SS3)	16.85	174	447890	12.062	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	96.48%

Target Compounds

						Qvalue
2) Propene	3.41	42	36589	1.599	ng	# 81
3) Dichlorodifluoromethan...	3.47	85	55993	1.337	ng	99
4) Chloromethane	3.62	50	4383	0.145	ng	91
5) 1,2-Dichloro-1,1,2,2-t...	3.72	135	1181	0.056	ng	95
6) Vinyl Chloride	3.79	62	1488	0.053	ng	86
8) Bromomethane	4.13	94	1397	0.075	ng	92
10) Ethanol	4.46	45	6700648	412.480	ng	99
12) Acrolein	4.65	56	5808	0.432	ng	93
13) Acetone	4.74	58	2013034	145.195	ng	97
14) Trichlorofluoromethane	4.86	101	24235	0.643	ng	98
15) 2-Propanol (Isopropanol)	5.00	45	538062	9.613	ng	97
19) Methylene Chloride	5.48	84	41672	2.050	ng	90
21) Trichlorotrifluoroethane	5.68	151	5449	0.275	ng	99
22) Carbon Disulfide	5.70	76	12067	0.150	ng	96
24) 1,1-Dichloroethane	6.43	63	18924	0.523	ng	95
26) Vinyl Acetate	6.53	86	3597	0.959	ng	# 21
27) 2-Butanone (MEK)	6.76	72	64011	5.201	ng	99
30) Ethyl Acetate	7.37	61	40017	4.945	ng	95
31) n-Hexane	7.39	57	10802	0.347	ng	96
32) Chloroform	7.45	83	84452	2.292	ng	99
38) 1,1,1-Trichloroethane	8.48	97	116489	3.479	ng	99
41) Benzene	8.98	78	16144	0.205	ng	82
42) Carbon Tetrachloride	9.15	117	4834	0.164	ng	94
43) Cyclohexane	9.28	84	3745	0.130	ng	88
47) Trichloroethene	10.22	130	896076	38.867	ng	99
51) n-Heptane	10.62	71	11645	0.611	ng	97
53) 4-Methyl-2-pentanone	11.38	58	25726	1.516	ng	98
58) Toluene	12.61	91	135235	1.401	ng	99
59) 2-Hexanone	12.97	43	53370	1.138	ng	91
62) n-Butyl Acetate	13.82	43	14831	0.278	ng	95
63) n-Octane	13.96	57	12599	0.664	ng	87
64) Tetrachloroethene	14.07	166	582547	19.841	ng	100
65) Chlorobenzene	14.94	112	4013	0.063	ng	96
66) Ethylbenzene	15.44	91	172412	1.497	ng	99
67) m- & p-Xylenes	15.66	91	621300	6.705	ng	98
69) Styrene	16.13	104	16829	0.264	ng	93
70) o-Xylene	16.27	91	528410	5.964	ng	99
71) n-Nonane	16.64	43	30541	0.712	ng	96
74) Cumene	17.06	105	580216	5.384	ng	100
75) alpha-Pinene	17.58	93	5381	0.108	ng	91
76) n-Propylbenzene	17.74	91	881029	6.820	ng	99
78) 4-Ethyltoluene	17.95	105	715409	6.920	ng	99
79) 1,3,5-Trimethylbenzene	18.06	105	2113421	23.119	ng	99
82) 1,2,4-Trimethylbenzene	18.61	105	2903341	32.208	ng	89
85) 1,3-Dichlorobenzene	18.77	146	2796	0.051	ng	89
86) 1,4-Dichlorobenzene	18.86	146	3978	0.070	ng	98
90) 1,2-Dichlorobenzene	19.30	146	4884	0.091	ng	95

Data File : I:\MS13\DATA\2023_03\27\03272316.D
Acq On : 27 Mar 2023 12:53
Sample : P2301250-028 (1000mL)
Misc : S35-01202301

Vial: 3
Operator: TZ
Inst : MS13

Quant Time: Mar 28 11:08:57 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M

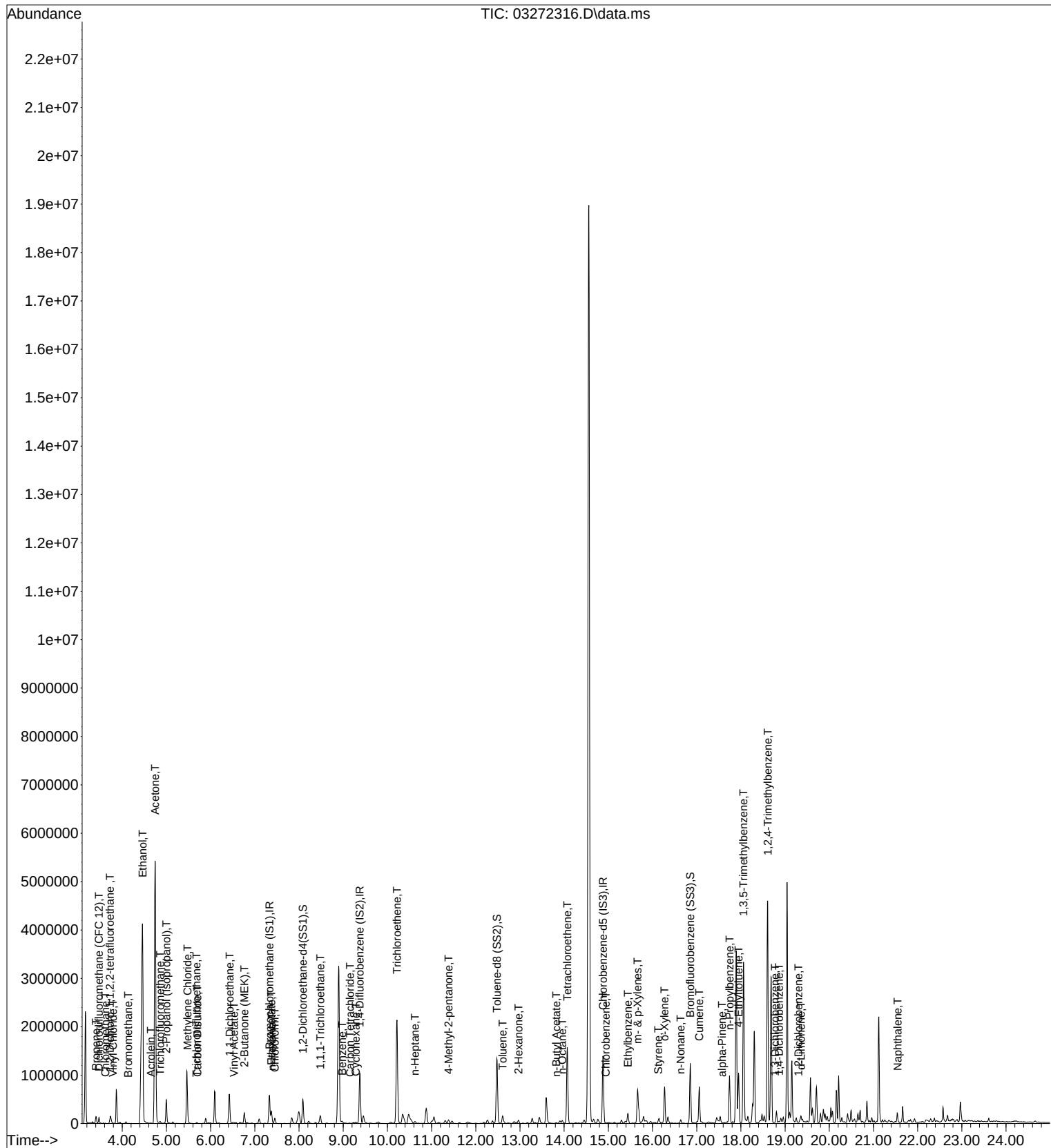
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) d-Limonene	19.36	68	26606	0.873	ng	84
95) Naphthalene	21.55	128	12225	0.125	ng	95

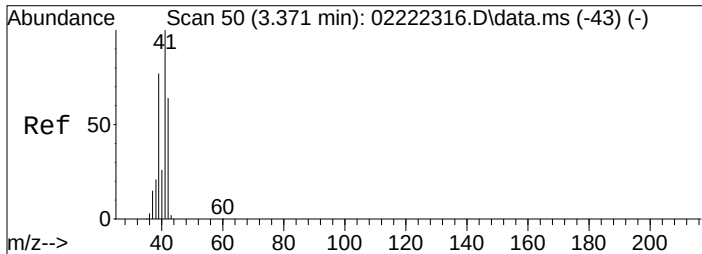
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS13\DATA\2023_03\27\03272316.D
Acq On : 27 Mar 2023 12:53
Sample : P2301250-028 (1000mL)
Misc : S35-01202301

Vial: 3
Operator: TZ
Inst : MS13

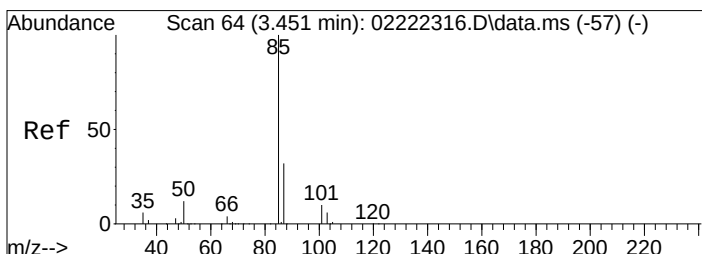
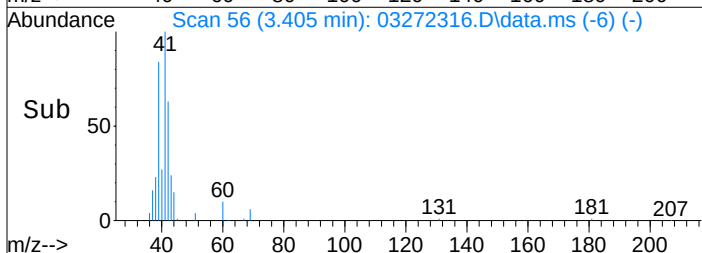
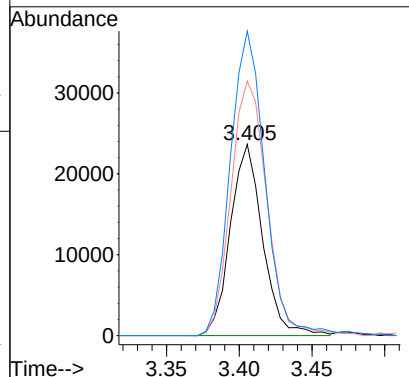
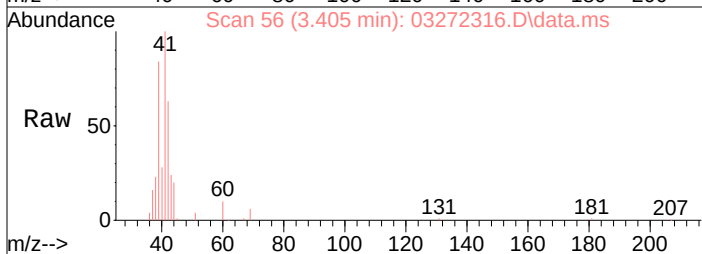
Quant Time: Mar 28 11:08:57 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M





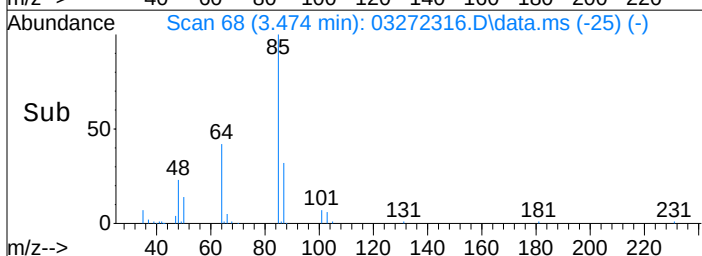
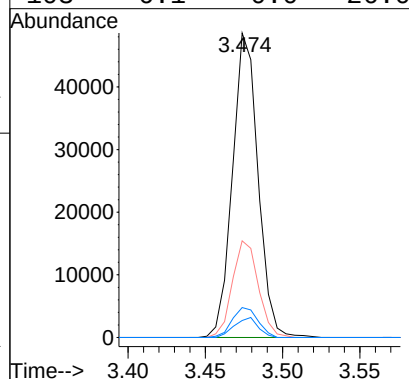
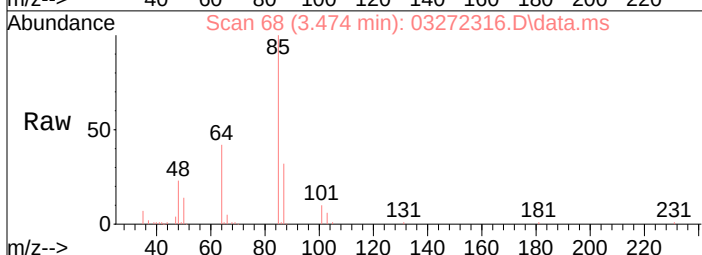
#2
 Propene
 Concen: 1.60 ng
 RT: 3.41 min Scan# 56
 Delta R.T. 0.034 min
 Lab File: 03272316.D
 Acq: 27 Mar 2023 12:53

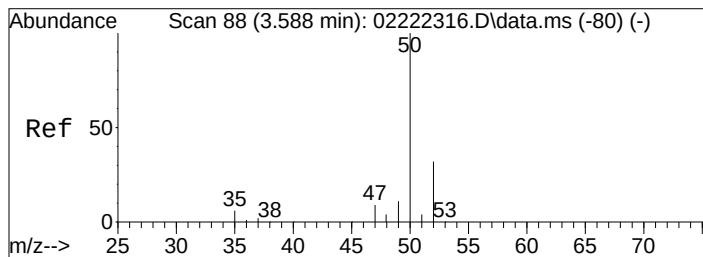
Tgt Ion: 42 Resp: 36589
 Ion Ratio Lower Upper
 42 100
 39 148.9 100.7 140.7#
 41 171.6 134.4 174.4



#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.34 ng
 RT: 3.47 min Scan# 68
 Delta R.T. -0.004 min
 Lab File: 03272316.D
 Acq: 27 Mar 2023 12:53

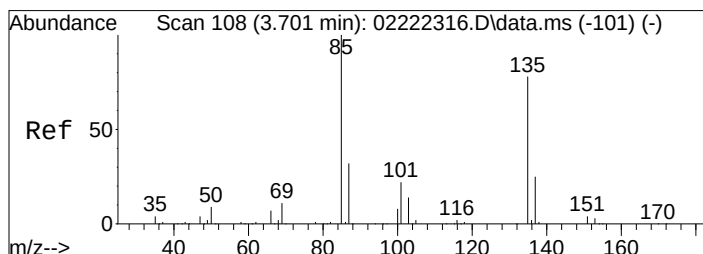
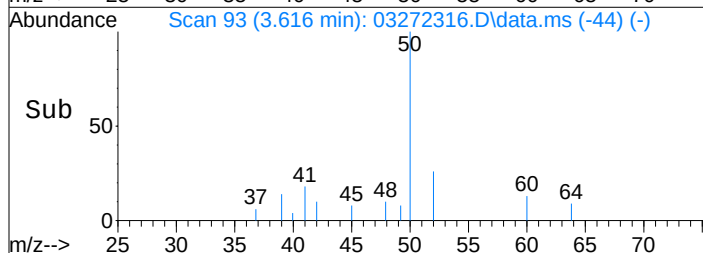
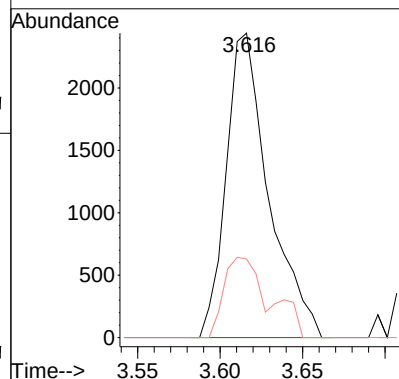
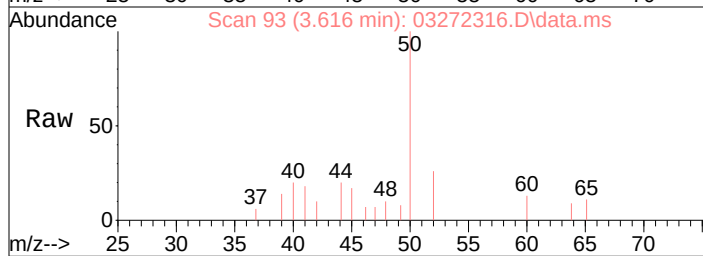
Tgt Ion: 85 Resp: 55993
 Ion Ratio Lower Upper
 85 100
 87 32.2 12.4 52.4
 101 10.0 0.0 29.4
 103 6.1 0.0 26.0





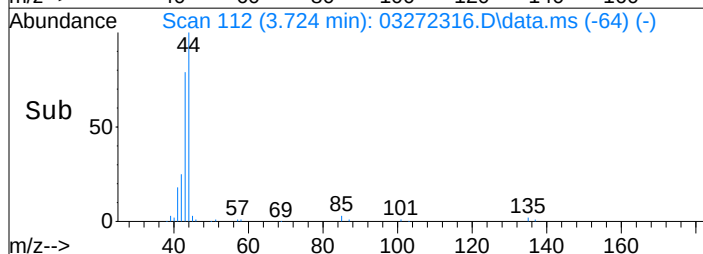
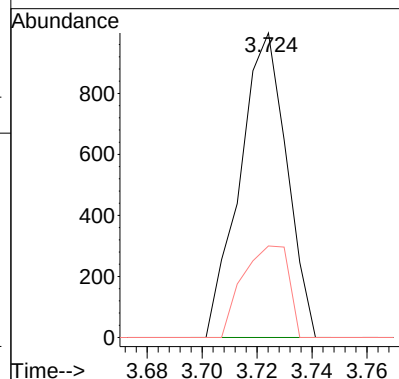
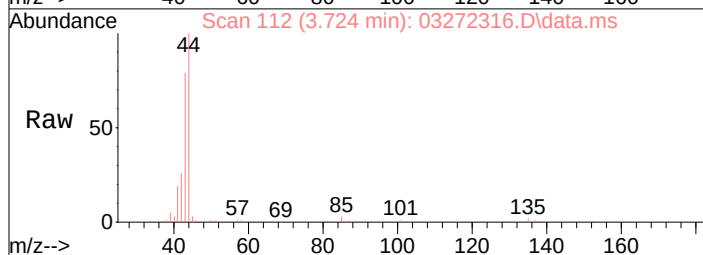
#4
Chloromethane
Concen: 0.15 ng
RT: 3.62 min Scan# 93
Delta R.T. 0.028 min
Lab File: 03272316.D
Acq: 27 Mar 2023 12:53

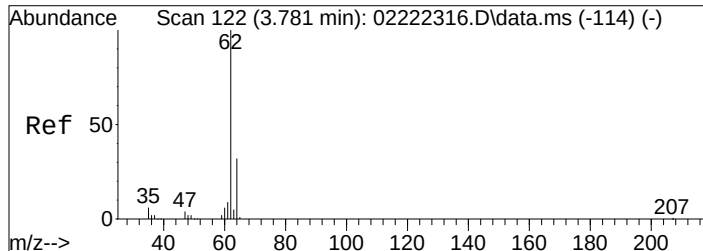
Tgt Ion: 50 Resp: 4383
Ion Ratio Lower Upper
50 100
52 28.1 13.0 53.0



#5
1,2-Dichloro-1,1,2,2-tetrafluoroethane
Concen: 0.06 ng
RT: 3.72 min Scan# 112
Delta R.T. 0.023 min
Lab File: 03272316.D
Acq: 27 Mar 2023 12:53

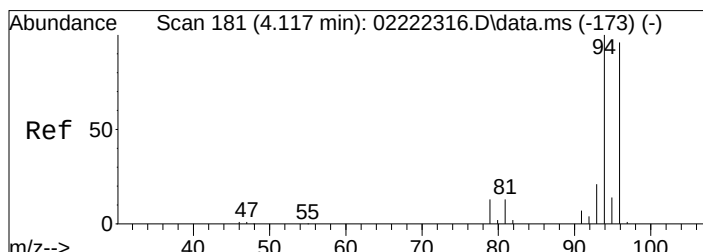
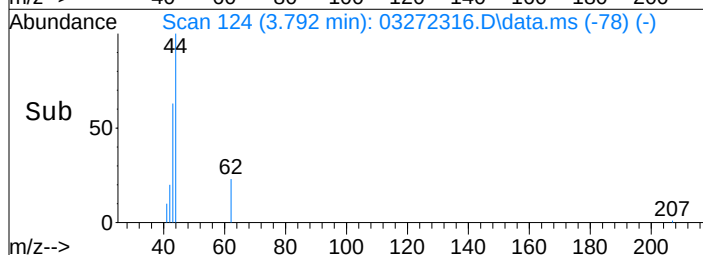
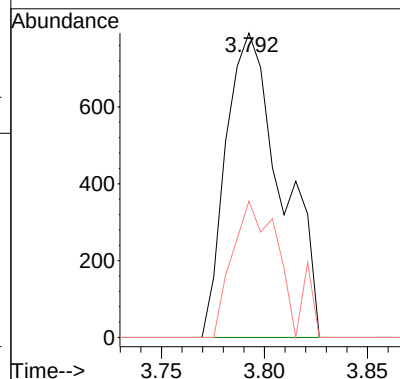
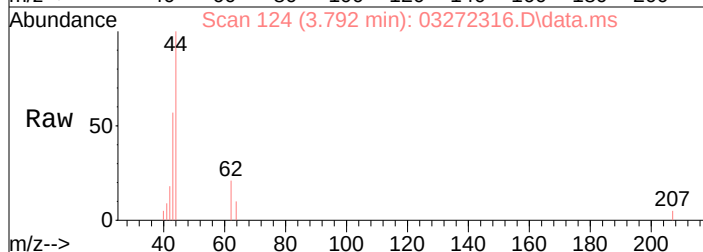
Tgt Ion: 135 Resp: 1181
Ion Ratio Lower Upper
135 100
137 29.6 12.2 52.2





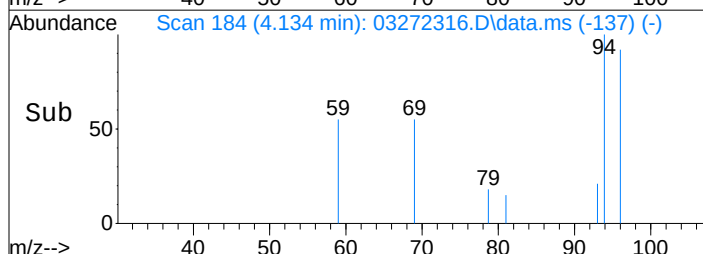
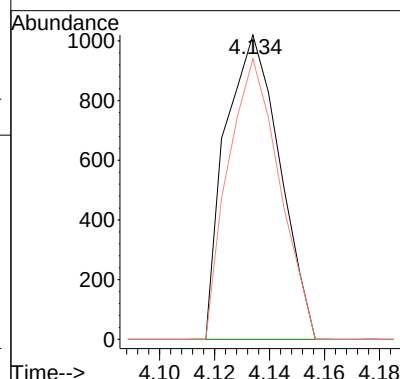
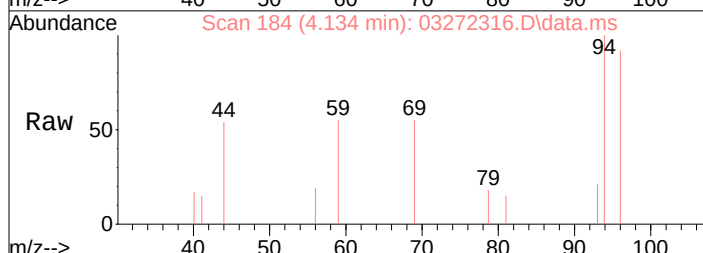
#6
 Vinyl Chloride
 Concen: 0.05 ng
 RT: 3.79 min Scan# 124
 Delta R.T. 0.011 min
 Lab File: 03272316.D
 Acq: 27 Mar 2023 12:53

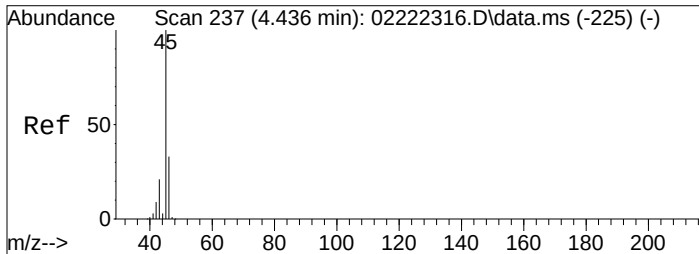
Tgt Ion: 62 Resp: 1488
 Ion Ratio Lower Upper
 62 100
 64 39.7 11.8 51.8



#8
 Bromomethane
 Concen: 0.07 ng
 RT: 4.13 min Scan# 184
 Delta R.T. 0.017 min
 Lab File: 03272316.D
 Acq: 27 Mar 2023 12:53

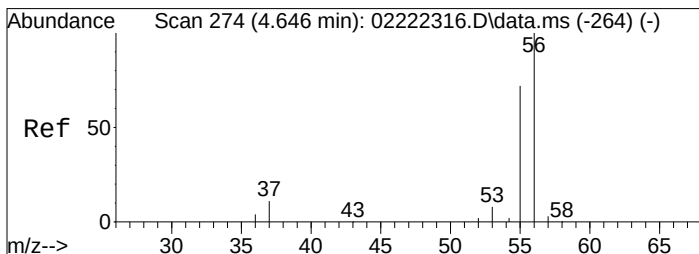
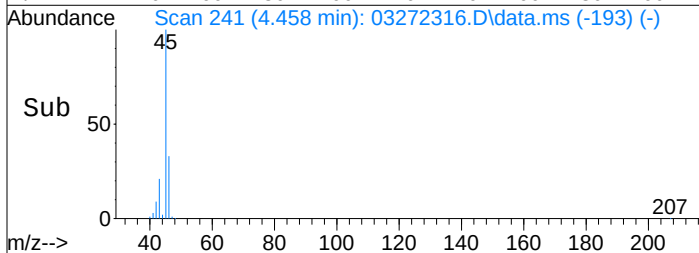
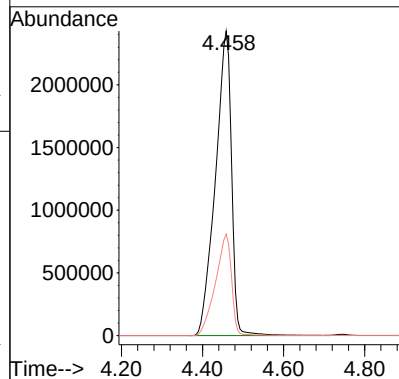
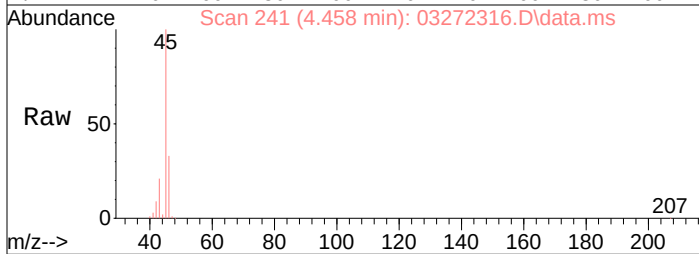
Tgt Ion: 94 Resp: 1397
 Ion Ratio Lower Upper
 94 100
 96 87.0 75.1 115.1





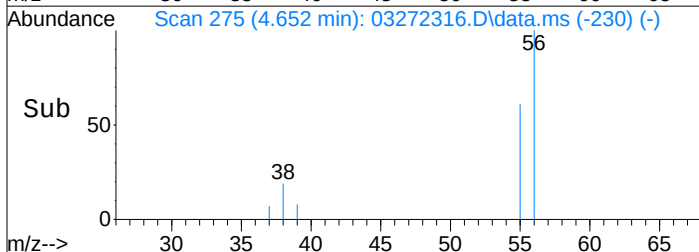
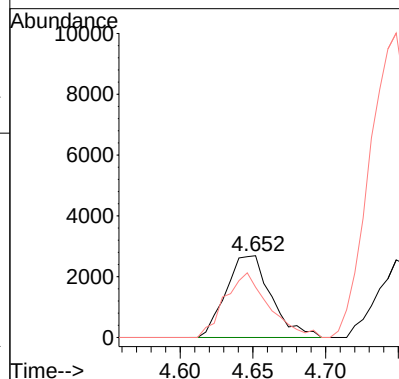
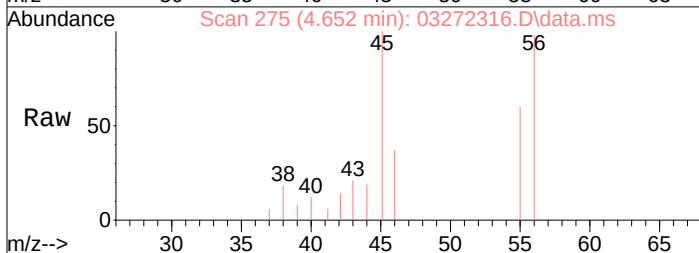
#10
Ethanol
Concen: 412.48 ng
RT: 4.46 min Scan# 241
Delta R.T. 0.023 min
Lab File: 03272316.D
Acq: 27 Mar 2023 12:53

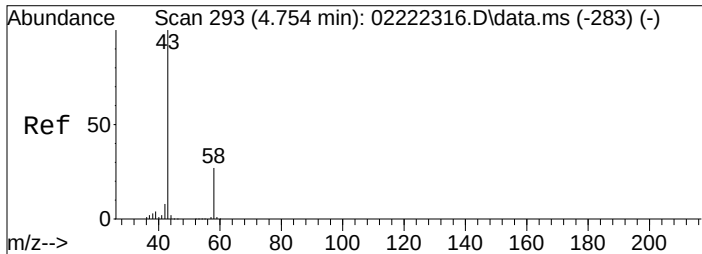
Tgt Ion: 45 Resp: 6700648
Ion Ratio Lower Upper
45 100
46 33.4 13.8 53.8



#12
Acrolein
Concen: 0.43 ng
RT: 4.65 min Scan# 275
Delta R.T. 0.006 min
Lab File: 03272316.D
Acq: 27 Mar 2023 12:53

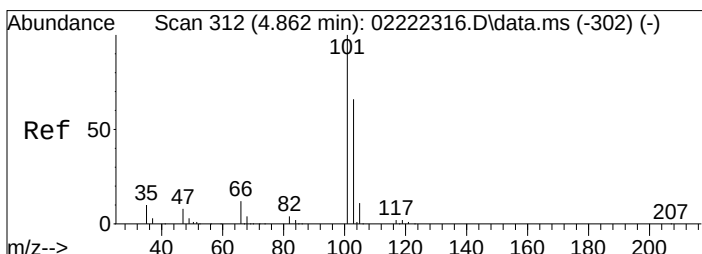
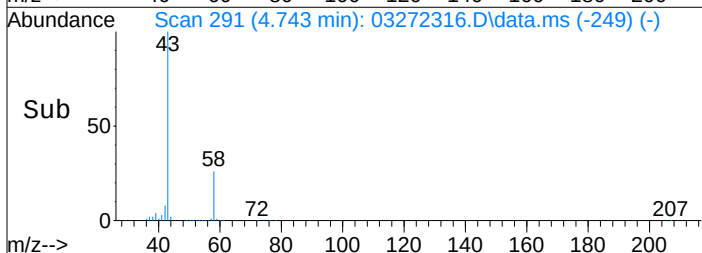
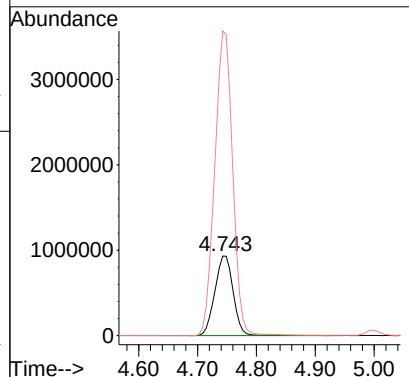
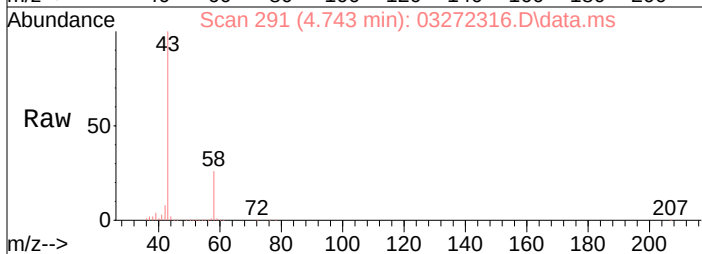
Tgt Ion: 56 Resp: 5808
Ion Ratio Lower Upper
56 100
55 77.0 50.9 90.9





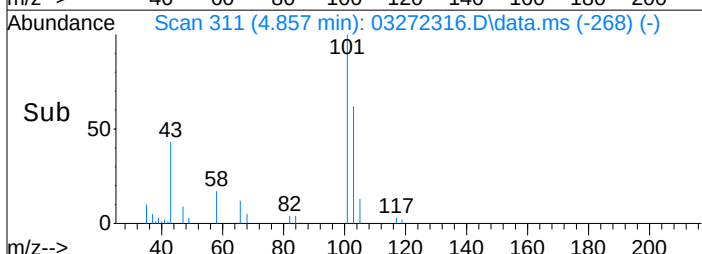
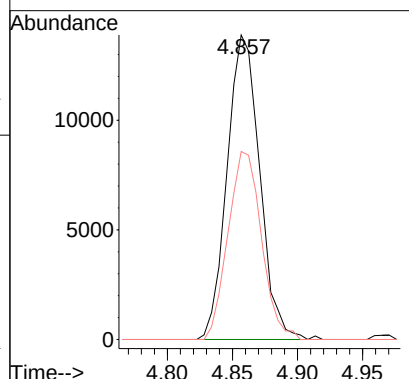
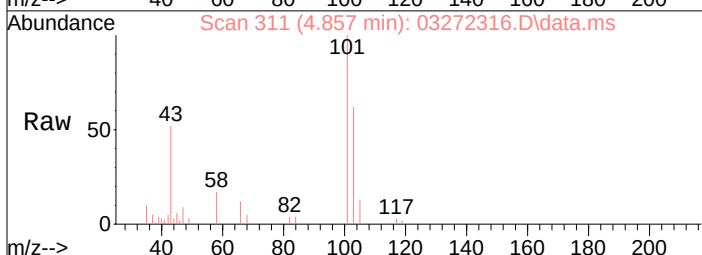
#13
Acetone
Concen: 145.20 ng
RT: 4.74 min Scan# 291
Delta R.T. -0.011 min
Lab File: 03272316.D
Acq: 27 Mar 2023 12:53

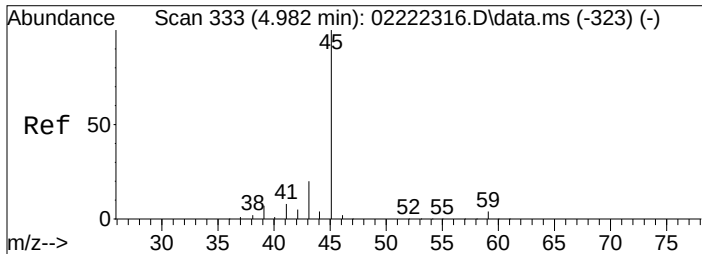
Tgt Ion: 58 Resp: 2013034
Ion Ratio Lower Upper
58 100
43 375.4 337.8 397.8



#14
Trichlorofluoromethane
Concen: 0.64 ng
RT: 4.86 min Scan# 311
Delta R.T. -0.006 min
Lab File: 03272316.D
Acq: 27 Mar 2023 12:53

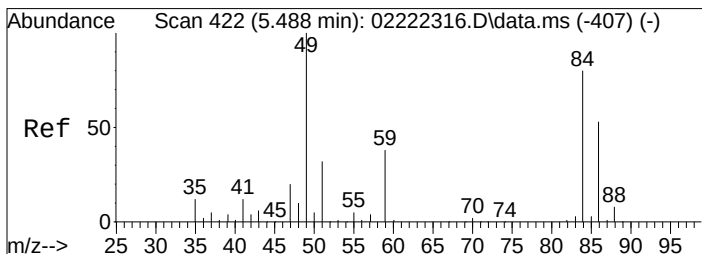
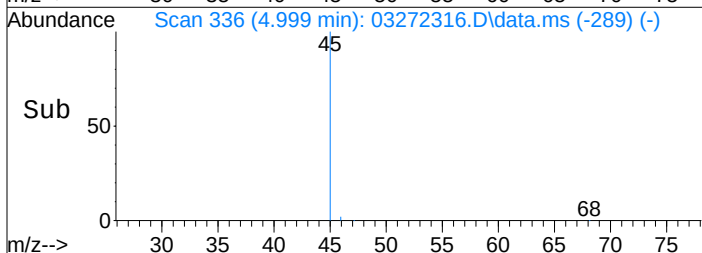
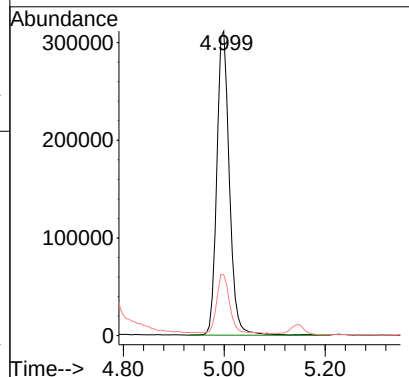
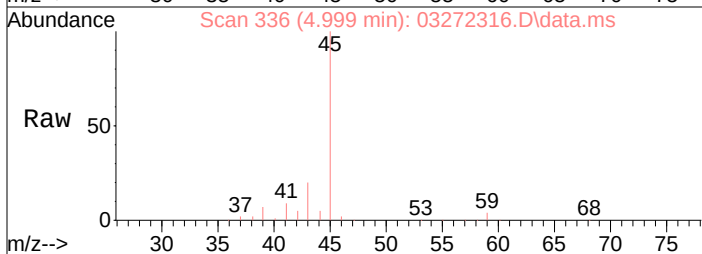
Tgt Ion: 101 Resp: 24235
Ion Ratio Lower Upper
101 100
103 63.2 45.2 85.2





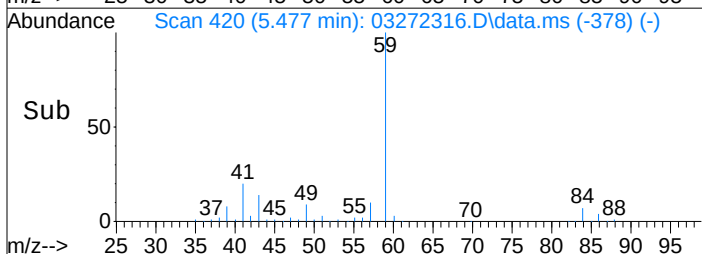
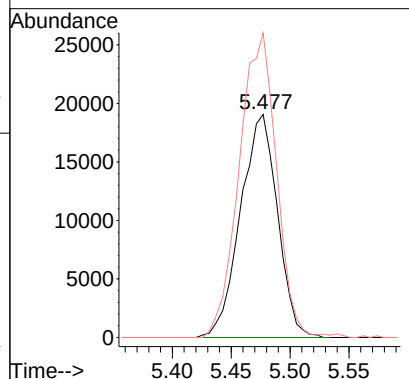
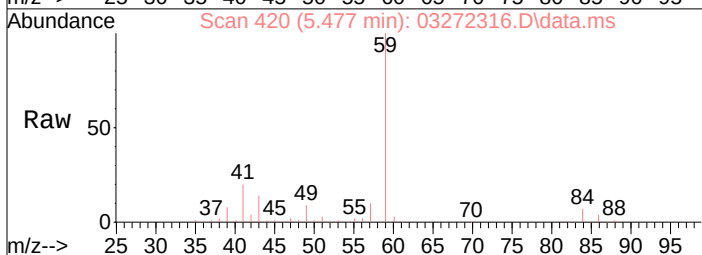
#15
 2-Propanol (Isopropanol)
 Concen: 9.61 ng
 RT: 5.00 min Scan# 336
 Delta R.T. 0.017 min
 Lab File: 03272316.D
 Acq: 27 Mar 2023 12:53

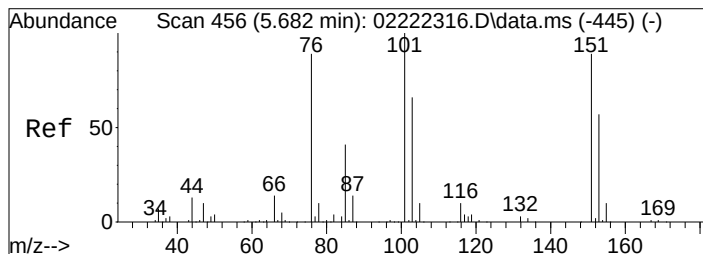
Tgt Ion: 45 Resp: 538062
 Ion Ratio Lower Upper
 45 100
 43 20.9 0.0 39.7



#19
 Methylene Chloride
 Concen: 2.05 ng
 RT: 5.48 min Scan# 420
 Delta R.T. -0.011 min
 Lab File: 03272316.D
 Acq: 27 Mar 2023 12:53

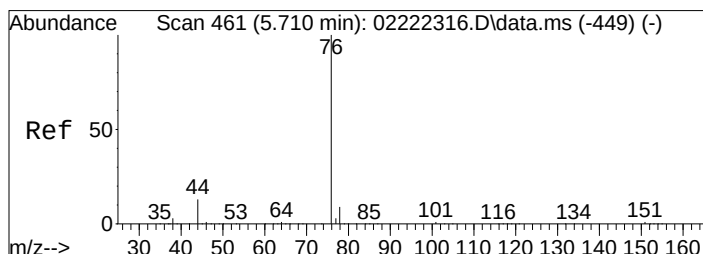
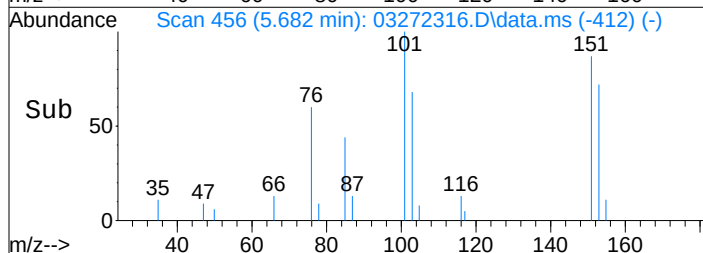
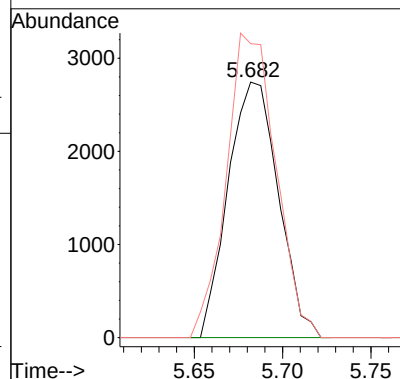
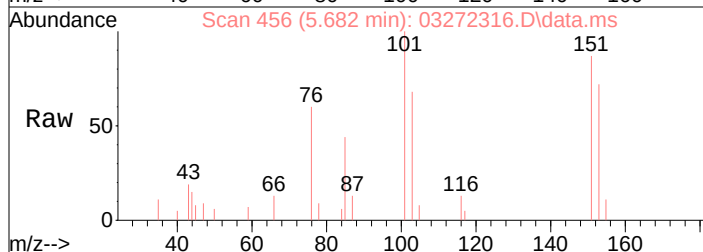
Tgt Ion: 84 Resp: 41672
 Ion Ratio Lower Upper
 84 100
 49 137.7 101.3 151.3





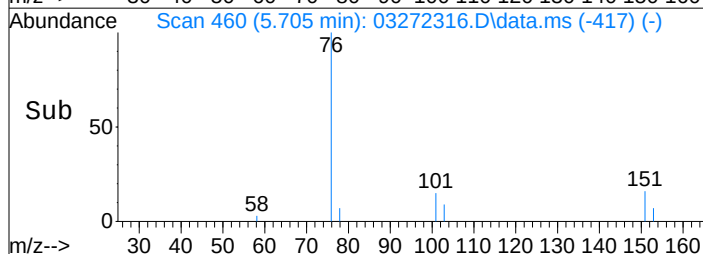
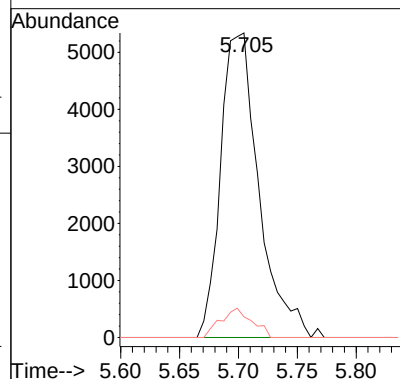
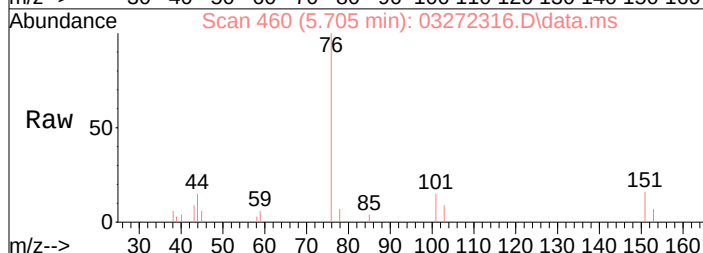
#21
 Trichlorotrifluoroethane
 Concen: 0.27 ng
 RT: 5.68 min Scan# 456
 Delta R.T. 0.000 min
 Lab File: 03272316.D
 Acq: 27 Mar 2023 12:53

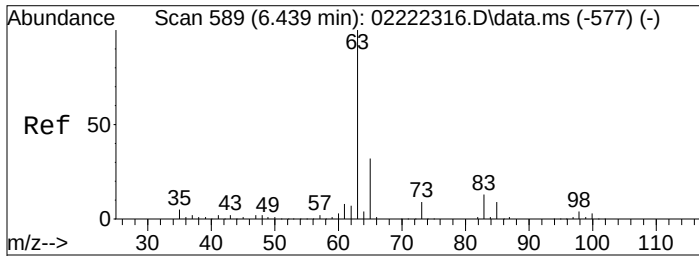
Tgt Ion: 151 Resp: 5449
 Ion Ratio Lower Upper
 151 100
 101 117.1 96.3 136.3



#22
 Carbon Disulfide
 Concen: 0.15 ng
 RT: 5.70 min Scan# 460
 Delta R.T. -0.006 min
 Lab File: 03272316.D
 Acq: 27 Mar 2023 12:53

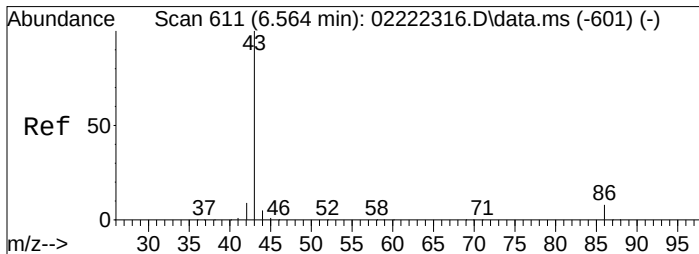
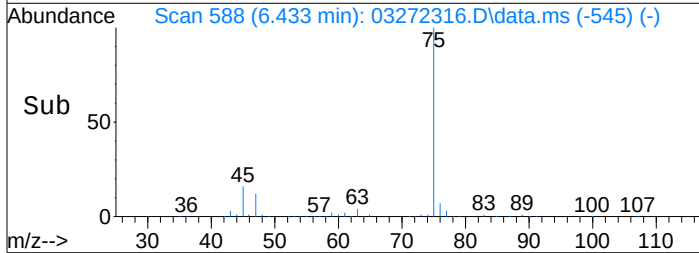
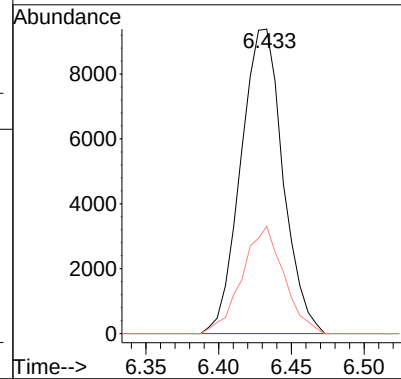
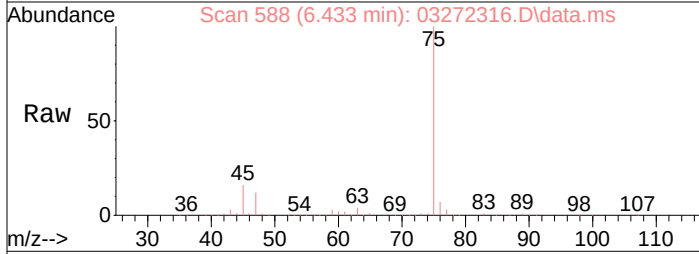
Tgt Ion: 76 Resp: 12067
 Ion Ratio Lower Upper
 76 100
 78 7.8 0.0 29.3





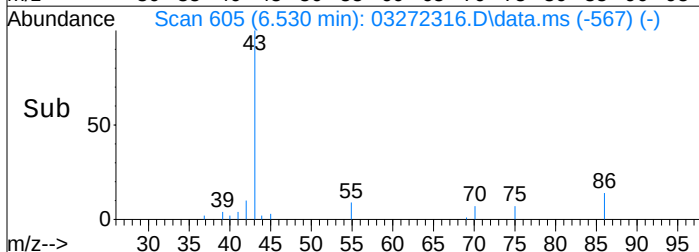
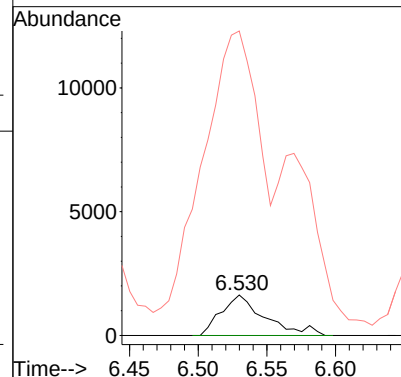
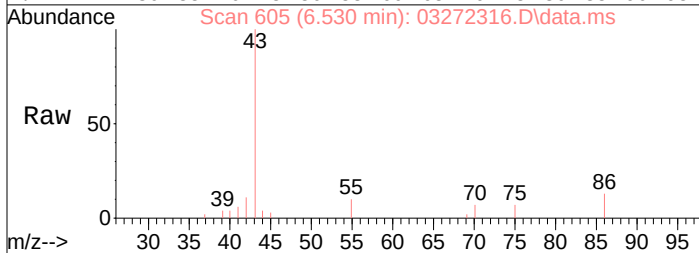
#24
1,1-Dichloroethane
Concen: 0.52 ng
RT: 6.43 min Scan# 588
Delta R.T. -0.006 min
Lab File: 03272316.D
Acq: 27 Mar 2023 12:53

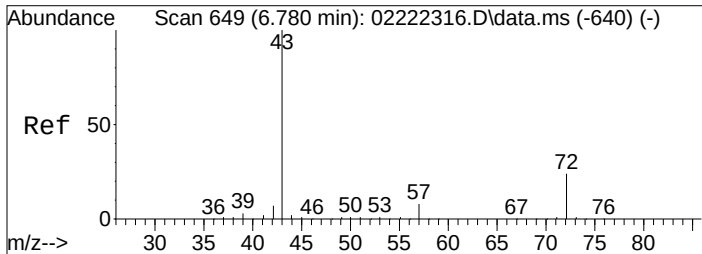
Tgt Ion: 63 Resp: 18924
Ion Ratio Lower Upper
63 100
65 35.0 12.0 52.0



#26
Vinyl Acetate
Concen: 0.96 ng
RT: 6.53 min Scan# 605
Delta R.T. -0.034 min
Lab File: 03272316.D
Acq: 27 Mar 2023 12:53

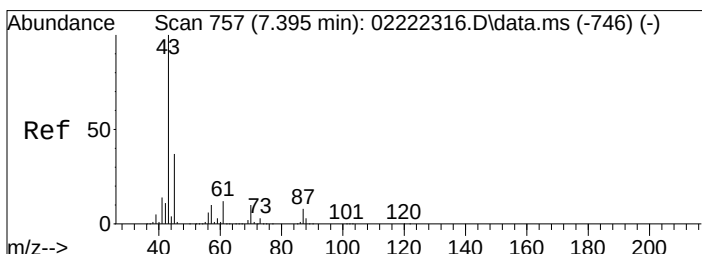
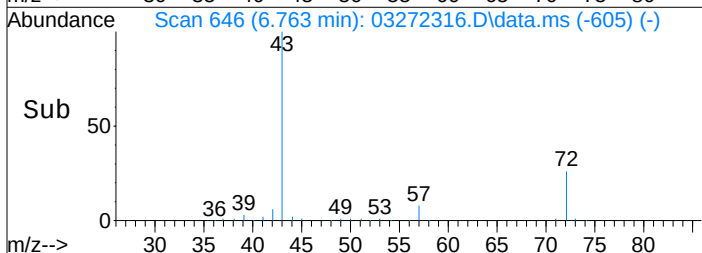
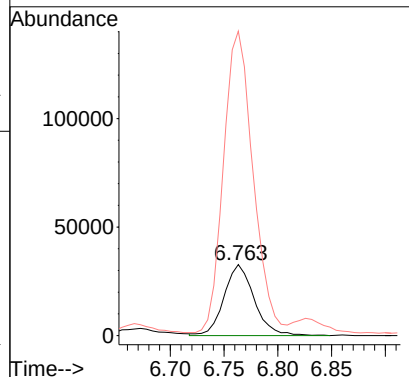
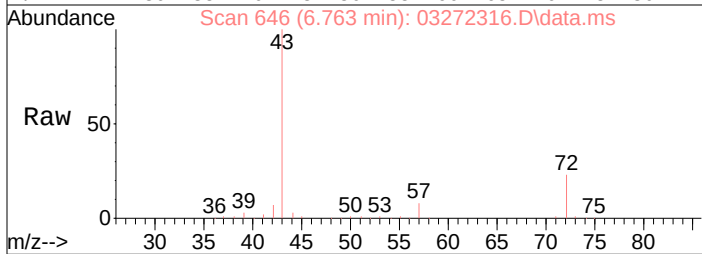
Tgt Ion: 86 Resp: 3597
Ion Ratio Lower Upper
86 100
43 886.4 1292.1 1332.1#





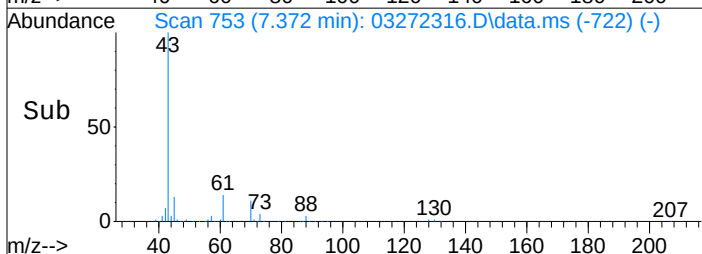
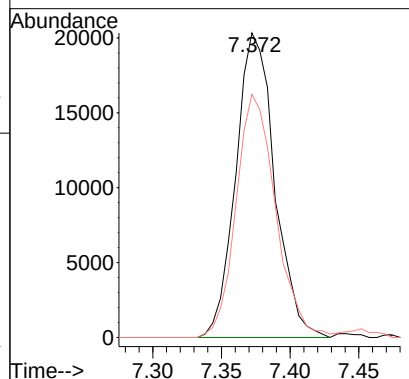
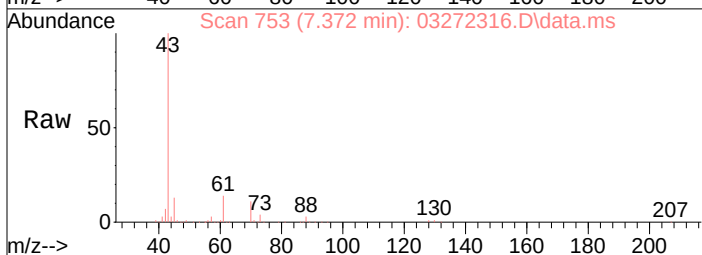
#27
2-Butanone (MEK)
Concen: 5.20 ng
RT: 6.76 min Scan# 646
Delta R.T. -0.017 min
Lab File: 03272316.D
Acq: 27 Mar 2023 12:53

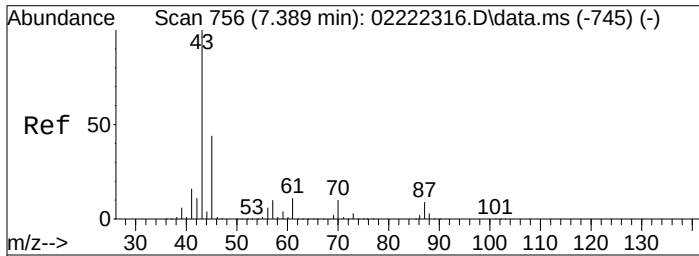
Tgt Ion: 72 Resp: 64011
Ion Ratio Lower Upper
72 100
43 423.1 400.5 440.5



#30
Ethyl Acetate
Concen: 4.94 ng
RT: 7.37 min Scan# 753
Delta R.T. -0.023 min
Lab File: 03272316.D
Acq: 27 Mar 2023 12:53

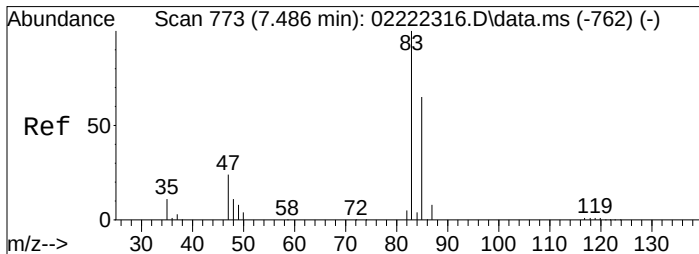
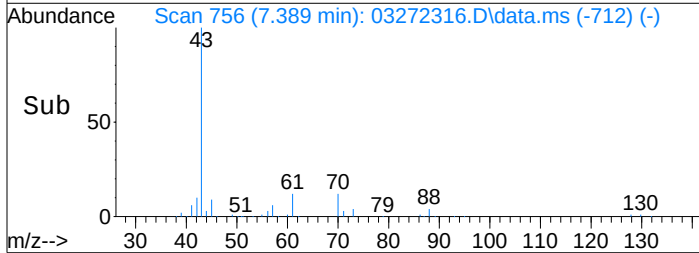
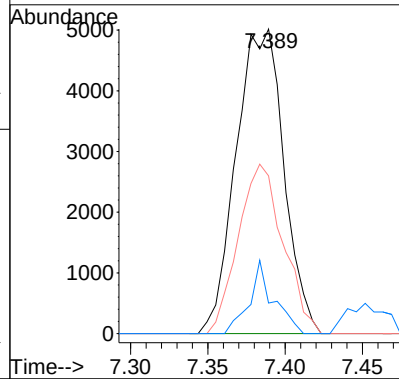
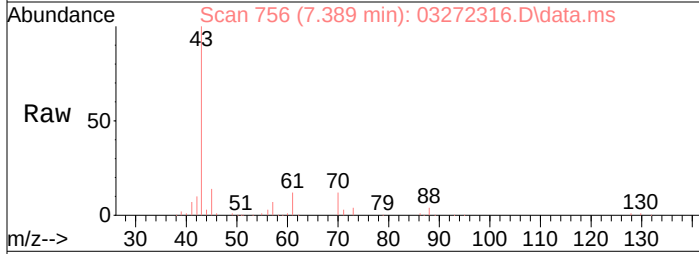
Tgt Ion: 61 Resp: 40017
Ion Ratio Lower Upper
61 100
70 81.2 65.6 105.6





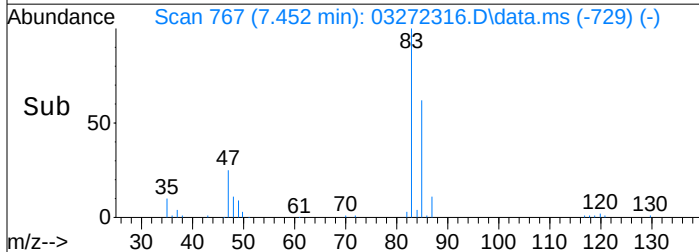
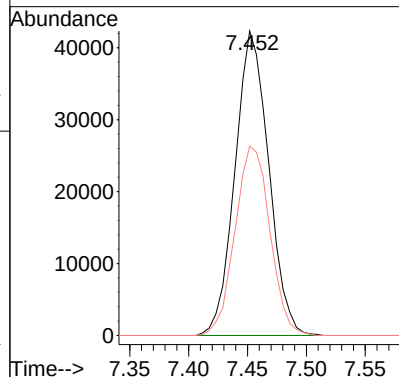
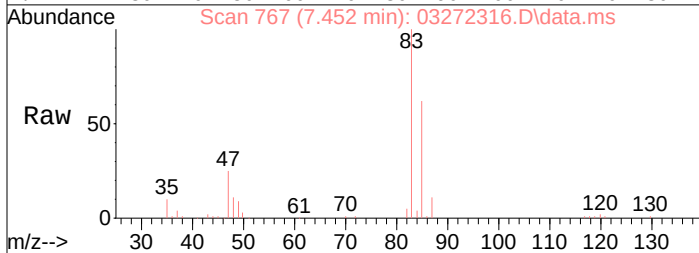
#31
n-Hexane
Concen: 0.35 ng
RT: 7.39 min Scan# 756
Delta R.T. 0.000 min
Lab File: 03272316.D
Acq: 27 Mar 2023 12:53

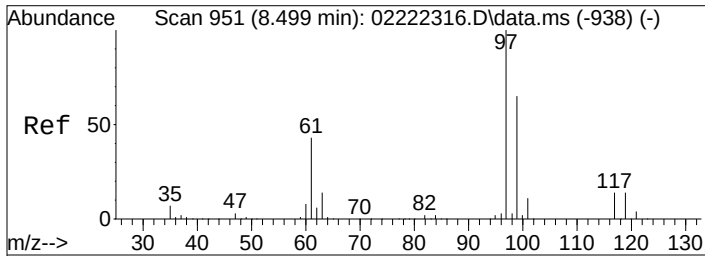
Tgt Ion: 57 Resp: 10802
Ion Ratio Lower Upper
57 100
56 52.3 44.0 66.0
86 12.0 11.5 17.3



#32
Chloroform
Concen: 2.29 ng
RT: 7.45 min Scan# 767
Delta R.T. -0.034 min
Lab File: 03272316.D
Acq: 27 Mar 2023 12:53

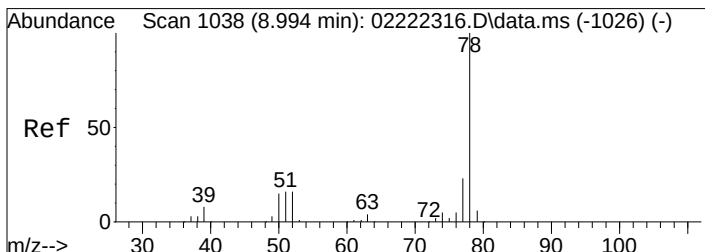
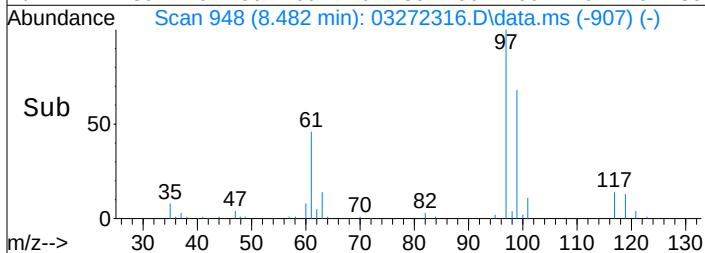
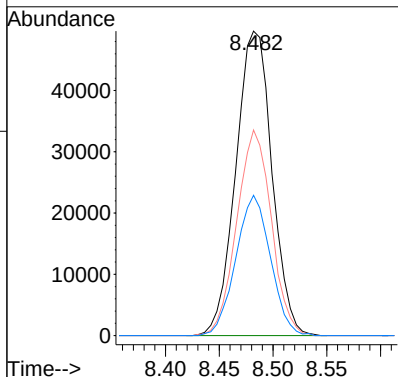
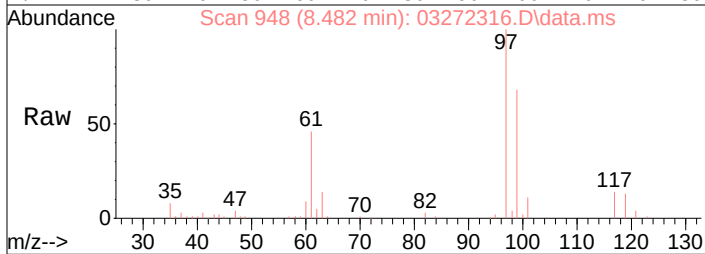
Tgt Ion: 83 Resp: 84452
Ion Ratio Lower Upper
83 100
85 64.4 45.0 85.0





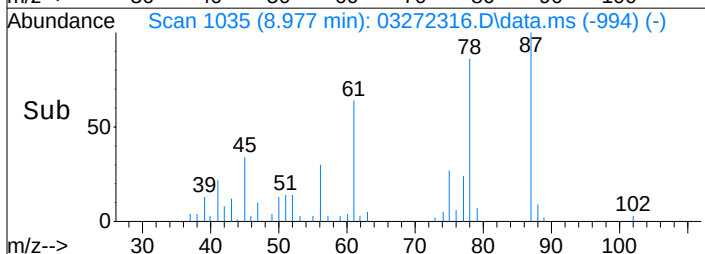
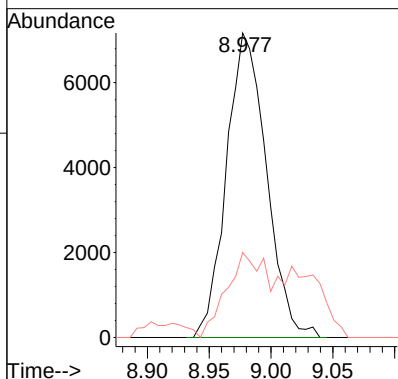
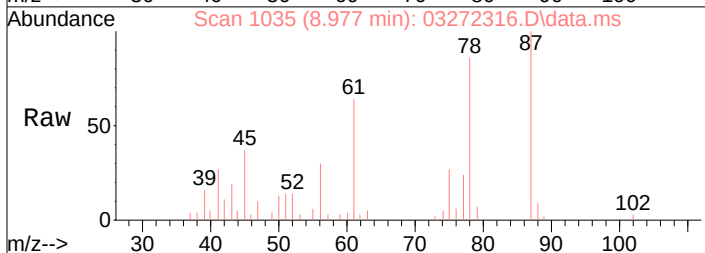
#38
 1,1,1-Trichloroethane
 Concen: 3.48 ng
 RT: 8.48 min Scan# 948
 Delta R.T. -0.017 min
 Lab File: 03272316.D
 Acq: 27 Mar 2023 12:53

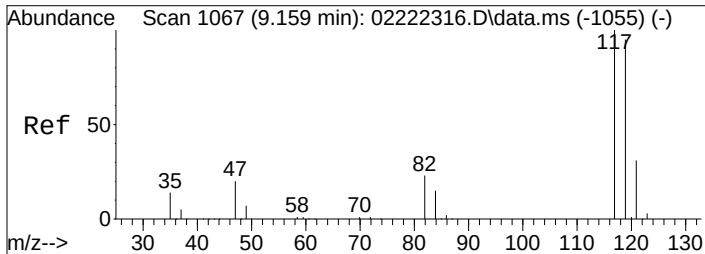
Tgt Ion:	97	Resp:	116489
Ion Ratio		Lower	Upper
97	100		
99	64.5	44.9	84.9
61	44.1	23.5	63.5



#41
 Benzene
 Concen: 0.21 ng
 RT: 8.98 min Scan# 1035
 Delta R.T. -0.017 min
 Lab File: 03272316.D
 Acq: 27 Mar 2023 12:53

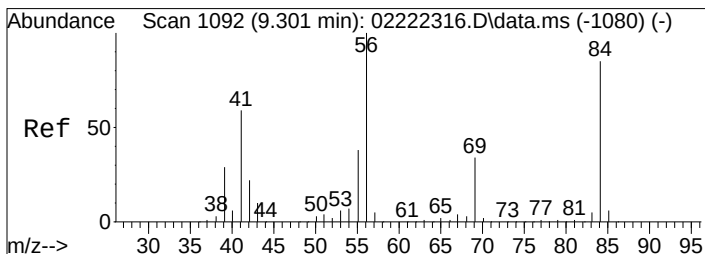
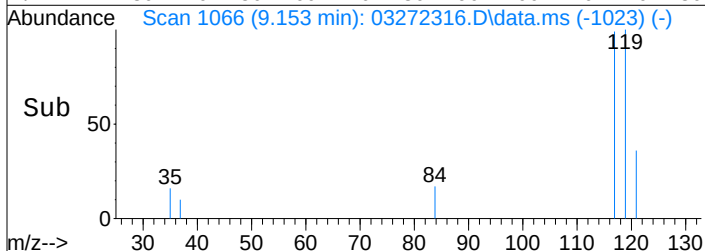
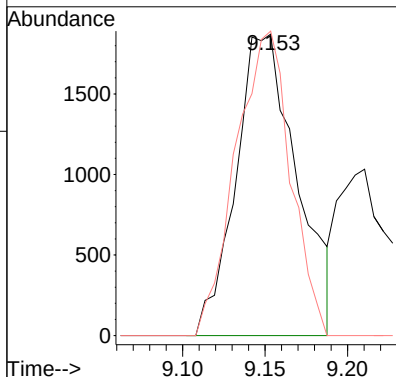
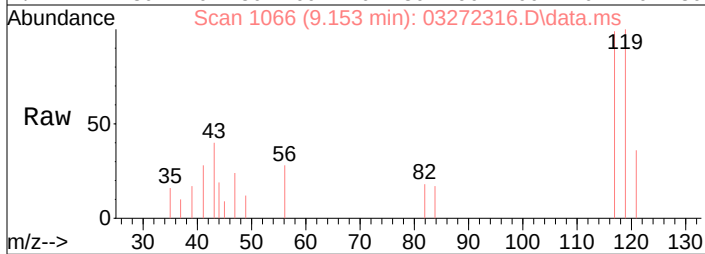
Tgt Ion:	78	Resp:	16144
Ion Ratio		Lower	Upper
78	100		
77	32.7	3.7	43.7





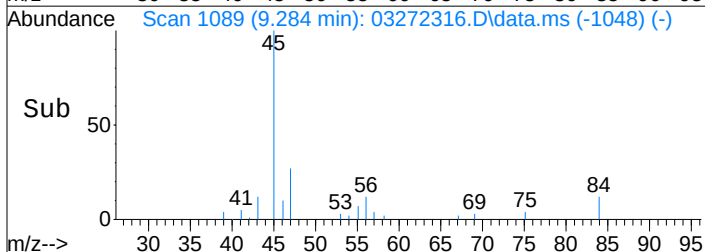
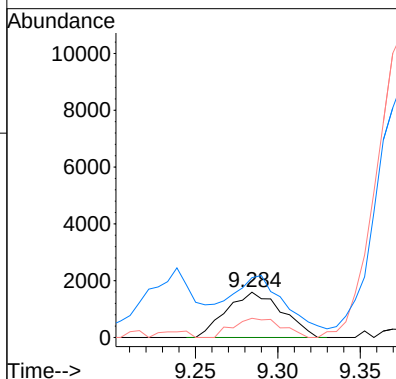
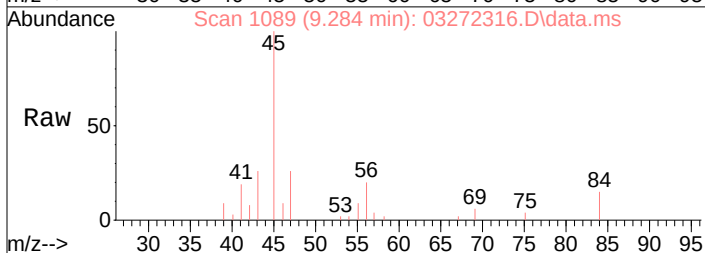
#42
Carbon Tetrachloride
Concen: 0.16 ng
RT: 9.15 min Scan# 1066
Delta R.T. -0.006 min
Lab File: 03272316.D
Acq: 27 Mar 2023 12:53

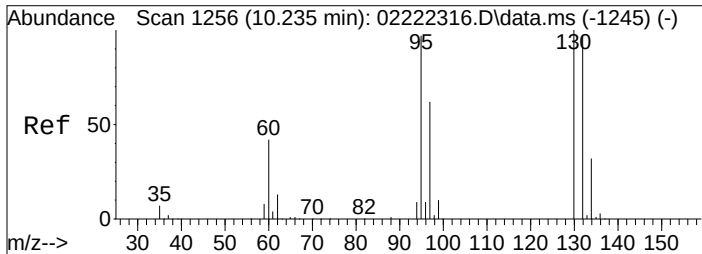
Tgt Ion: 117 Resp: 4834
Ion Ratio Lower Upper
117 100
119 90.3 75.7 115.7



#43
Cyclohexane
Concen: 0.13 ng
RT: 9.28 min Scan# 1089
Delta R.T. -0.017 min
Lab File: 03272316.D
Acq: 27 Mar 2023 12:53

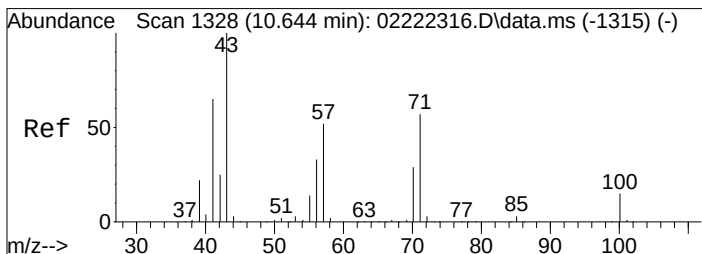
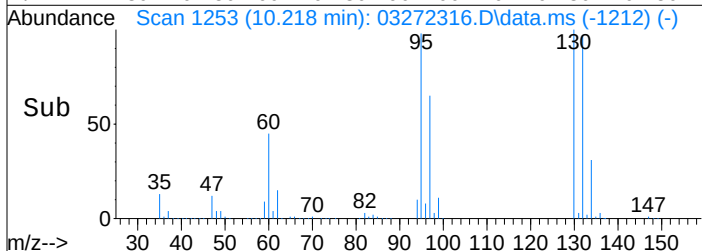
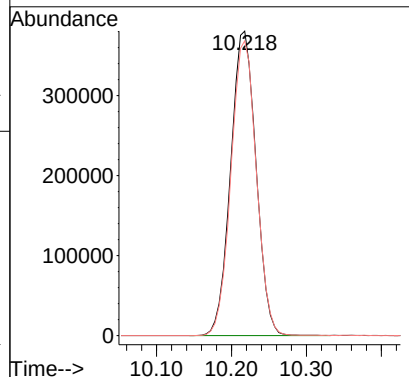
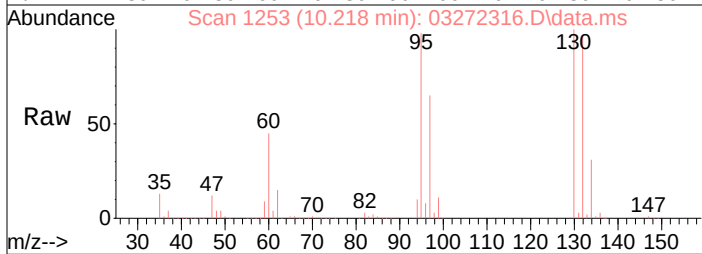
Tgt Ion: 84 Resp: 3745
Ion Ratio Lower Upper
84 100
69 36.8 20.0 60.0
56 102.8 98.5 138.5





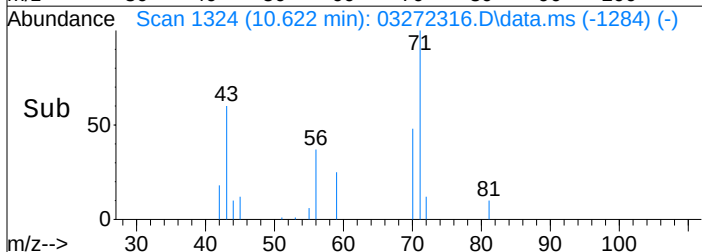
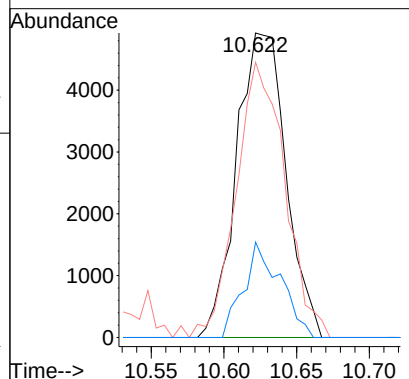
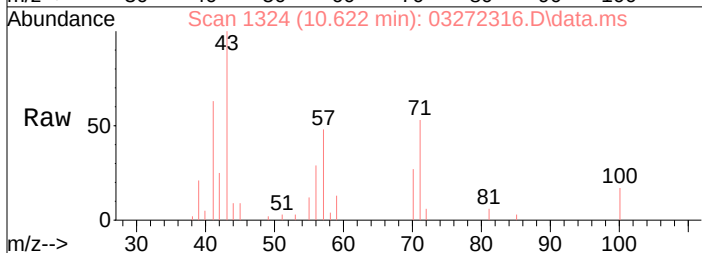
#47
 Trichloroethene
 Concen: 38.87 ng
 RT: 10.22 min Scan# 1253
 Delta R.T. -0.017 min
 Lab File: 03272316.D
 Acq: 27 Mar 2023 12:53

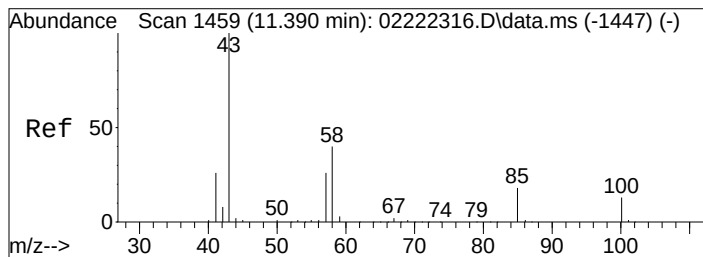
Tgt Ion:	130	Resp:	896076
Ion Ratio		Lower	Upper
130	100		
132	96.8	76.3	116.3



#51
 n-Heptane
 Concen: 0.61 ng
 RT: 10.62 min Scan# 1324
 Delta R.T. -0.023 min
 Lab File: 03272316.D
 Acq: 27 Mar 2023 12:53

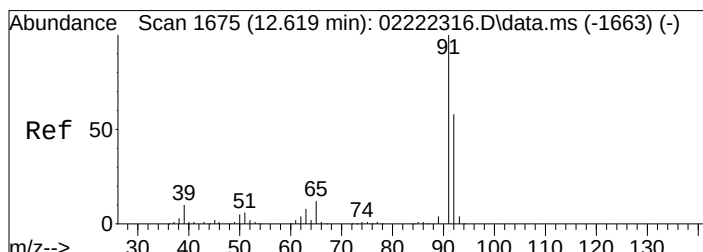
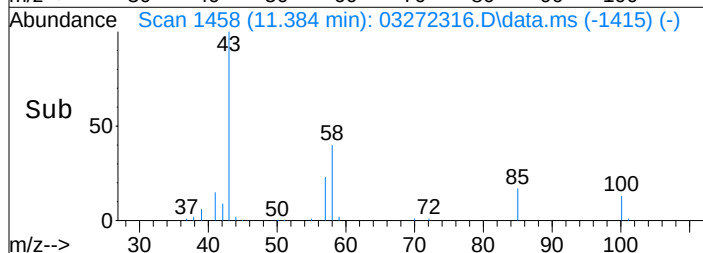
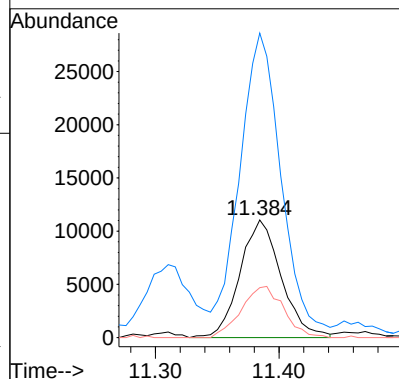
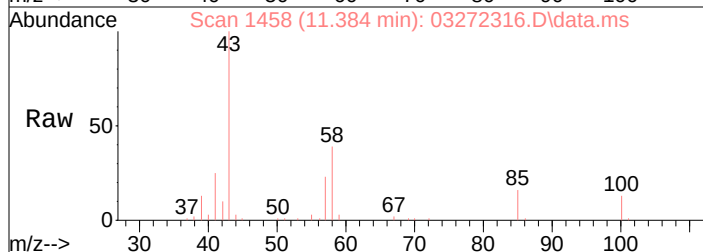
Tgt Ion:	71	Resp:	11645
Ion Ratio		Lower	Upper
71	100		
57	89.5	71.7	111.7
100	23.4	5.8	45.8





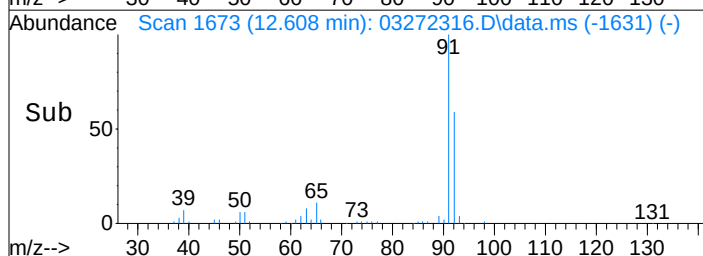
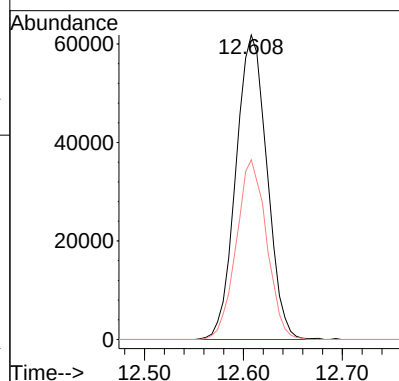
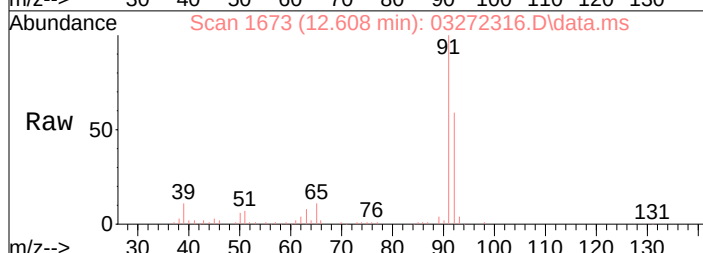
#53
 4-Methyl-2-pentanone
 Concen: 1.52 ng
 RT: 11.38 min Scan# 1458
 Delta R.T. -0.006 min
 Lab File: 03272316.D
 Acq: 27 Mar 2023 12:53

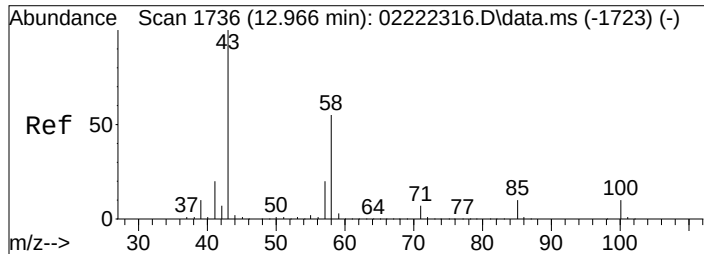
Tgt Ion: 58 Resp: 25726
 Ion Ratio Lower Upper
 58 100
 85 44.5 38.6 58.0
 43 254.4 202.2 303.2



#58
 Toluene
 Concen: 1.40 ng
 RT: 12.61 min Scan# 1673
 Delta R.T. -0.011 min
 Lab File: 03272316.D
 Acq: 27 Mar 2023 12:53

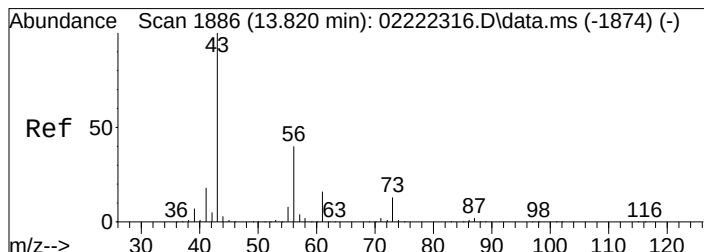
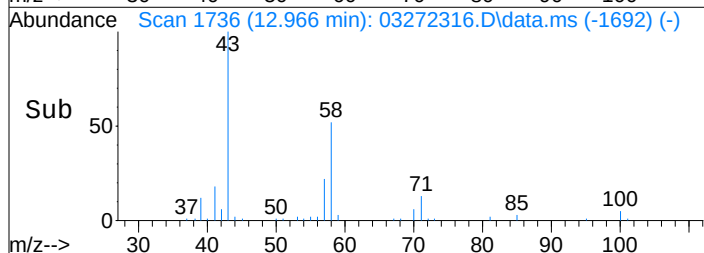
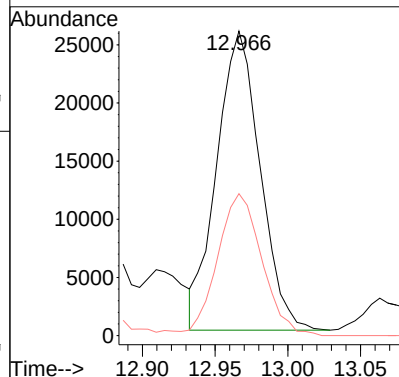
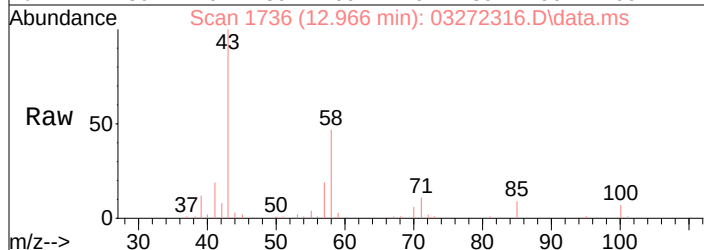
Tgt Ion: 91 Resp: 135235
 Ion Ratio Lower Upper
 91 100
 92 57.5 38.0 78.0





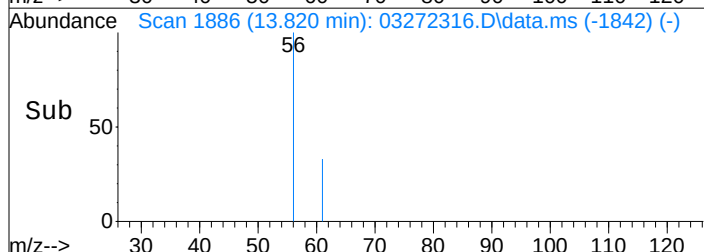
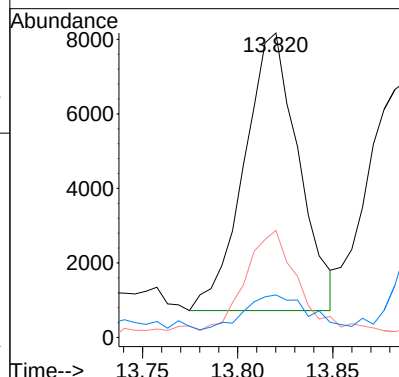
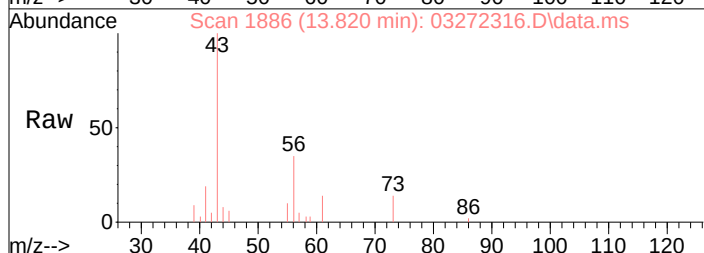
#59
2-Hexanone
Concen: 1.14 ng
RT: 12.97 min Scan# 1736
Delta R.T. 0.000 min
Lab File: 03272316.D
Acq: 27 Mar 2023 12:53

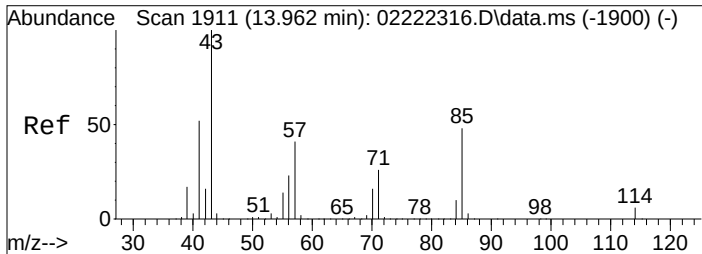
Tgt Ion: 43 Resp: 53370
Ion Ratio Lower Upper
43 100
58 48.3 34.5 74.5



#62
n-Butyl Acetate
Concen: 0.28 ng
RT: 13.82 min Scan# 1886
Delta R.T. 0.000 min
Lab File: 03272316.D
Acq: 27 Mar 2023 12:53

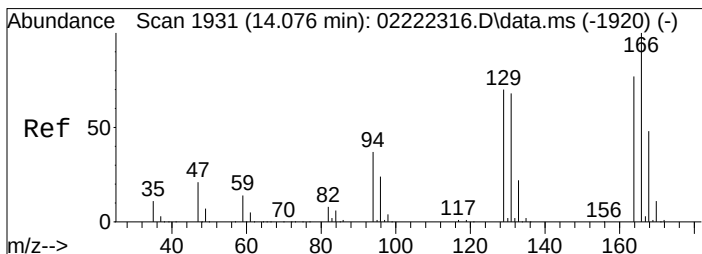
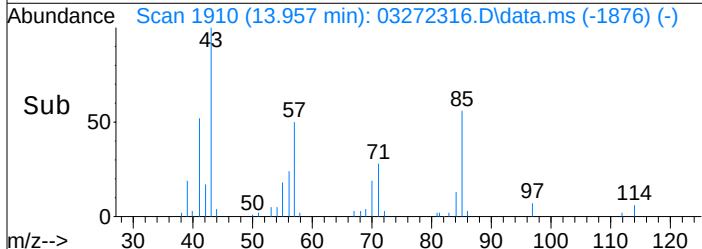
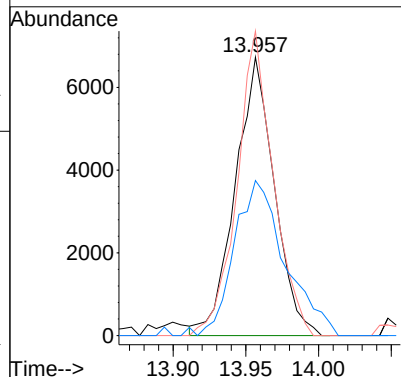
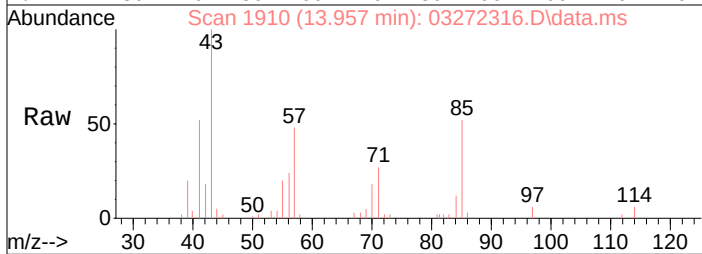
Tgt Ion: 43 Resp: 14831
Ion Ratio Lower Upper
43 100
56 41.5 20.0 60.0
73 18.3 0.0 33.2





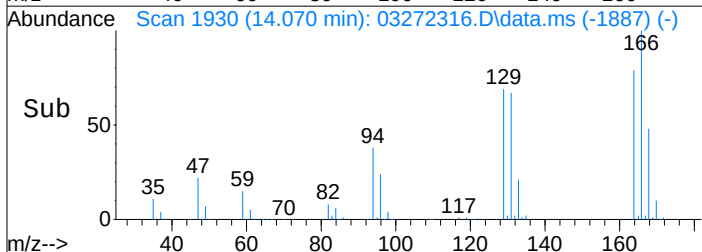
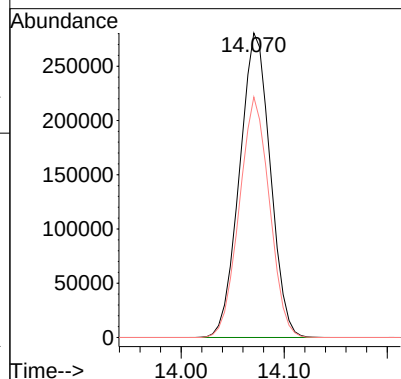
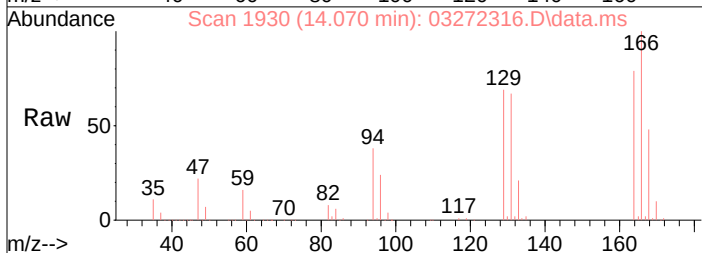
#63
n-Octane
Concen: 0.66 ng
RT: 13.96 min Scan# 1910
Delta R.T. -0.006 min
Lab File: 03272316.D
Acq: 27 Mar 2023 12:53

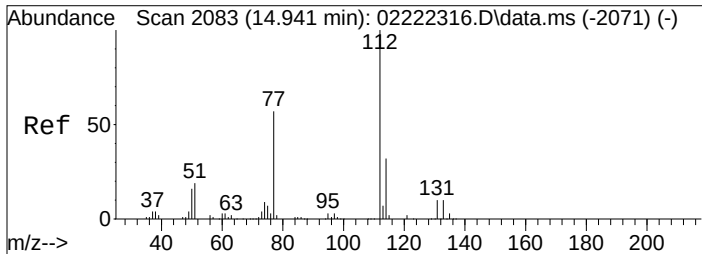
Tgt Ion:	57	Resp:	12599
Ion Ratio		Lower	Upper
57	100		
85	101.2	94.1	141.1
71	72.4	52.6	79.0



#64
Tetrachloroethene
Concen: 19.84 ng
RT: 14.07 min Scan# 1930
Delta R.T. -0.006 min
Lab File: 03272316.D
Acq: 27 Mar 2023 12:53

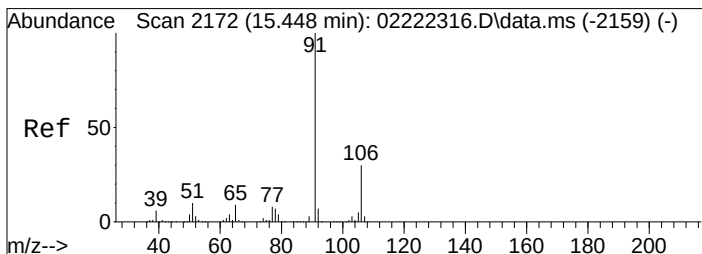
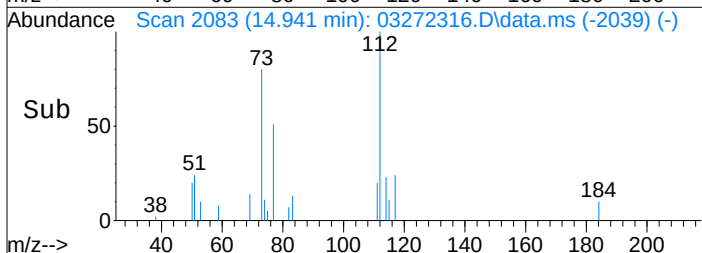
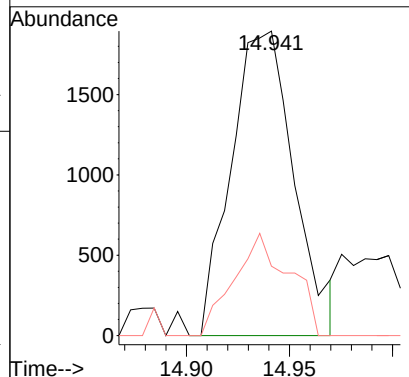
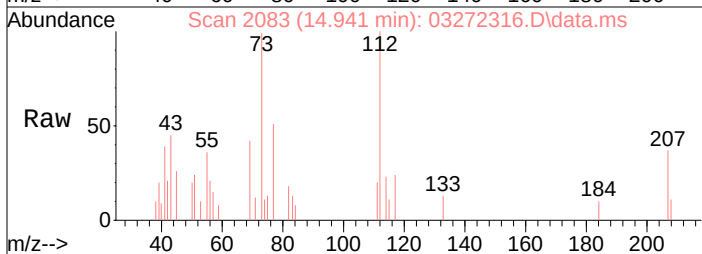
Tgt Ion:	166	Resp:	582547
Ion Ratio		Lower	Upper
166	100		
164	77.4	57.3	97.3





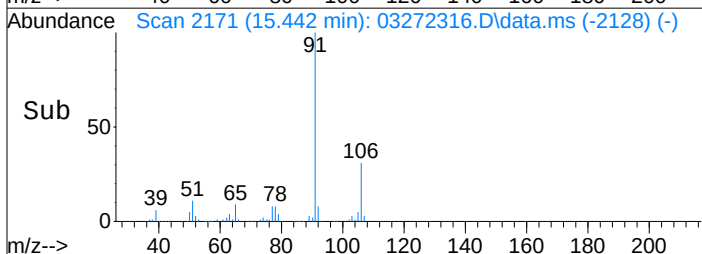
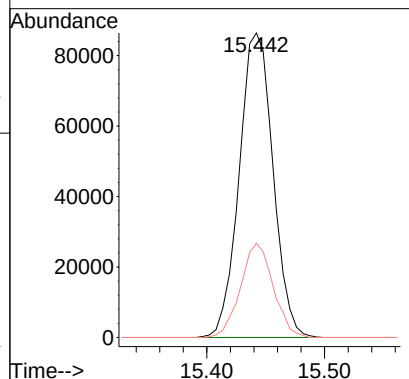
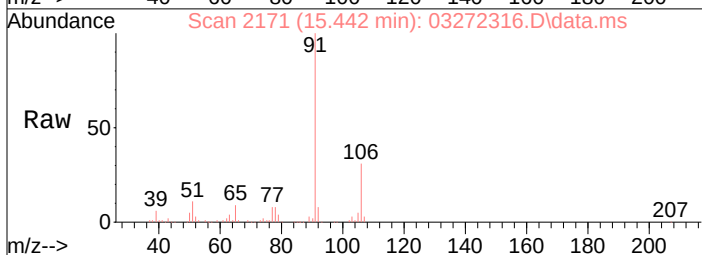
#65
Chlorobenzene
Concen: 0.06 ng
RT: 14.94 min Scan# 2083
Delta R.T. 0.000 min
Lab File: 03272316.D
Acq: 27 Mar 2023 12:53

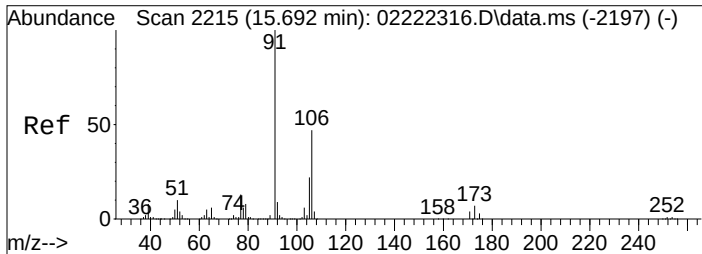
Tgt Ion: 112 Resp: 4013
Ion Ratio Lower Upper
112 100
114 29.6 12.1 52.1



#66
Ethylbenzene
Concen: 1.50 ng
RT: 15.44 min Scan# 2171
Delta R.T. -0.006 min
Lab File: 03272316.D
Acq: 27 Mar 2023 12:53

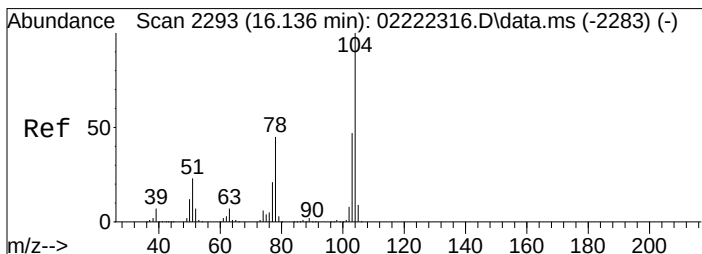
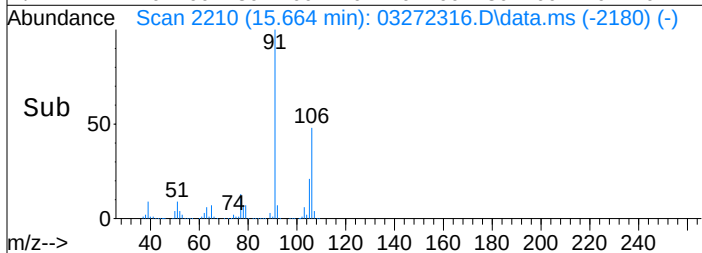
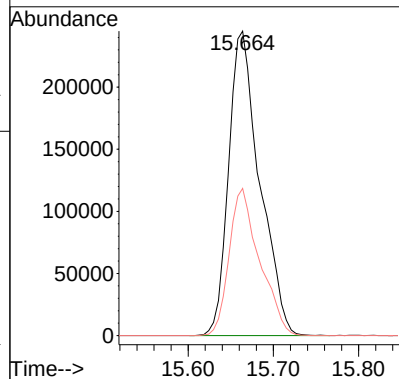
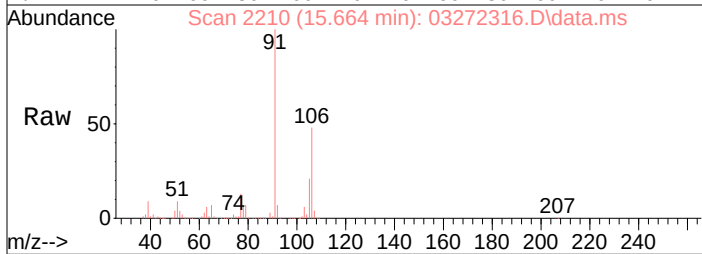
Tgt Ion: 91 Resp: 172412
Ion Ratio Lower Upper
91 100
106 30.0 10.4 50.4





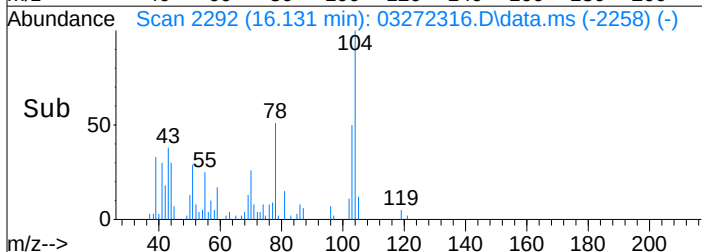
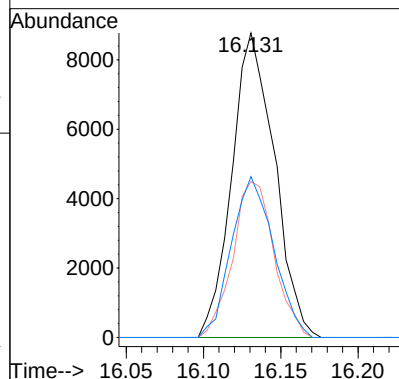
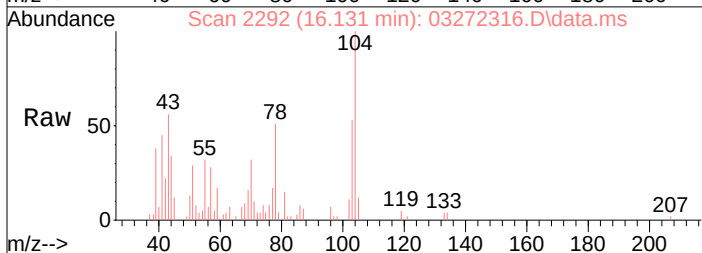
#67
m- & p-Xylenes
Concen: 6.70 ng
RT: 15.66 min Scan# 2210
Delta R.T. -0.028 min
Lab File: 03272316.D
Acq: 27 Mar 2023 12:53

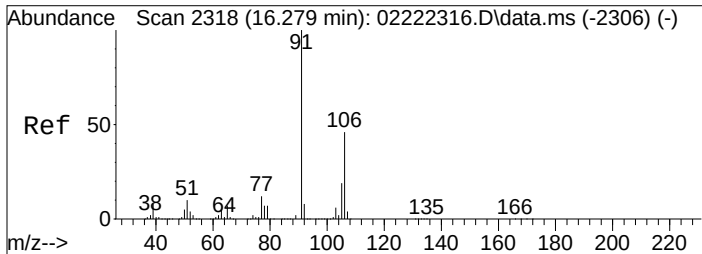
Tgt Ion: 91 Resp: 621300
Ion Ratio Lower Upper
91 100
106 47.4 26.2 66.2



#69
Styrene
Concen: 0.26 ng
RT: 16.13 min Scan# 2292
Delta R.T. -0.006 min
Lab File: 03272316.D
Acq: 27 Mar 2023 12:53

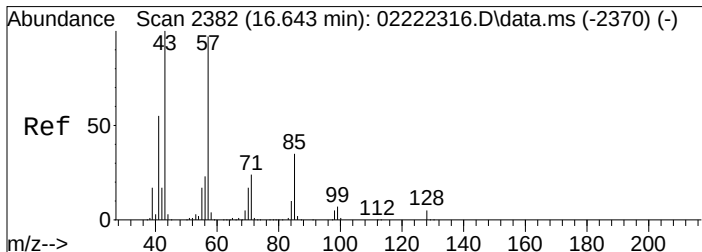
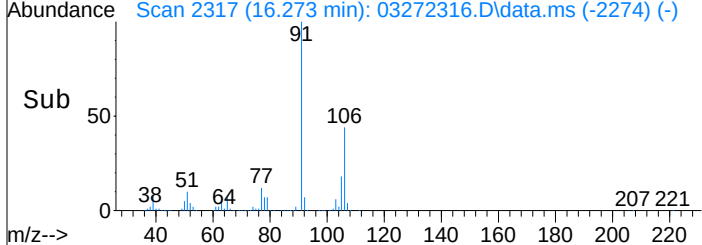
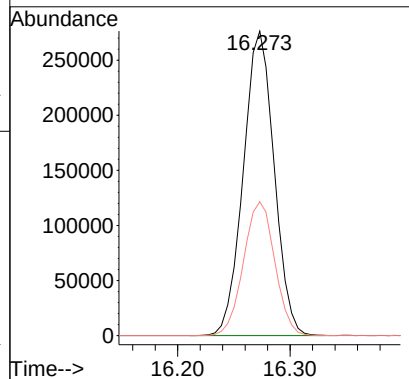
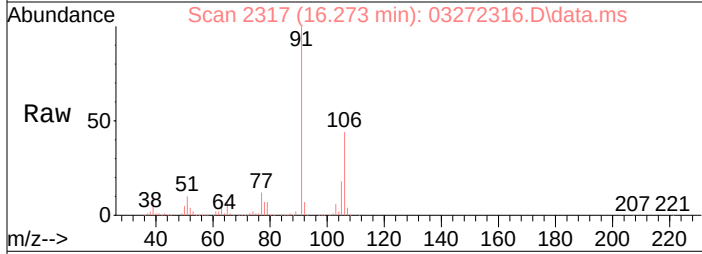
Tgt Ion: 104 Resp: 16829
Ion Ratio Lower Upper
104 100
78 49.8 24.7 64.7
103 52.3 27.8 67.8





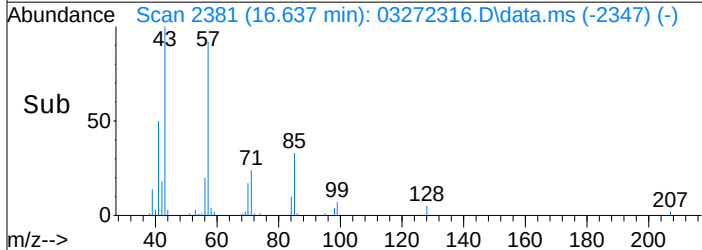
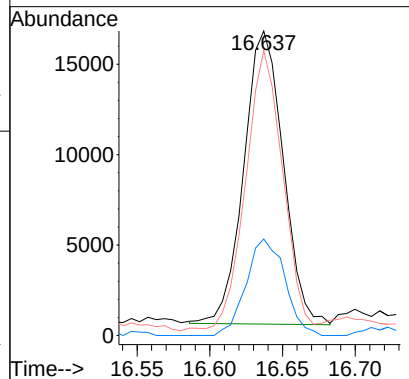
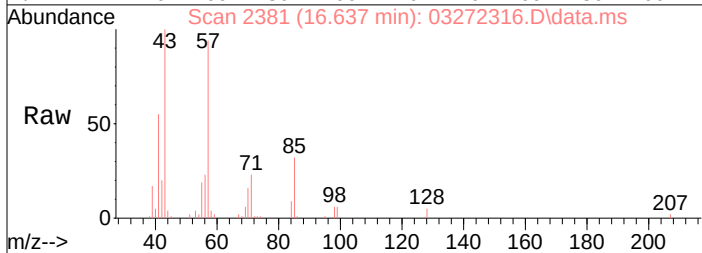
#70
o-Xylene
Concen: 5.96 ng
RT: 16.27 min Scan# 2317
Delta R.T. -0.006 min
Lab File: 03272316.D
Acq: 27 Mar 2023 12:53

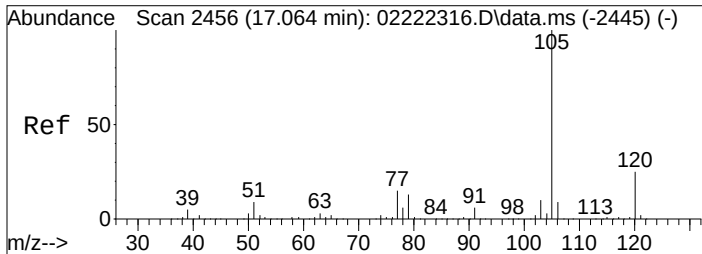
Tgt Ion: 91 Resp: 528410
Ion Ratio Lower Upper
91 100
106 44.7 25.4 65.4



#71
n-Nonane
Concen: 0.71 ng
RT: 16.64 min Scan# 2381
Delta R.T. -0.006 min
Lab File: 03272316.D
Acq: 27 Mar 2023 12:53

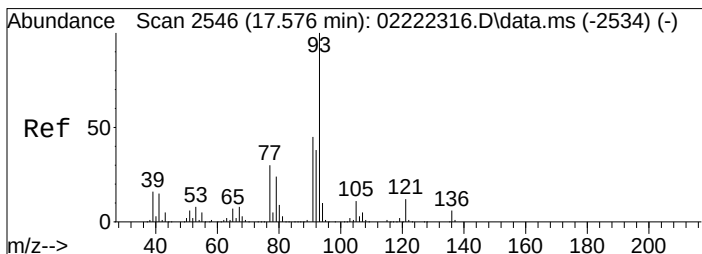
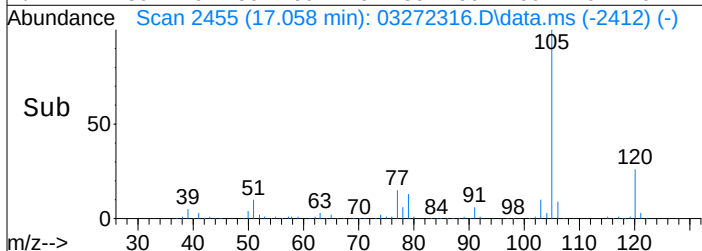
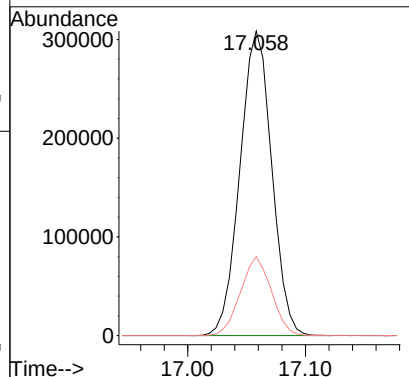
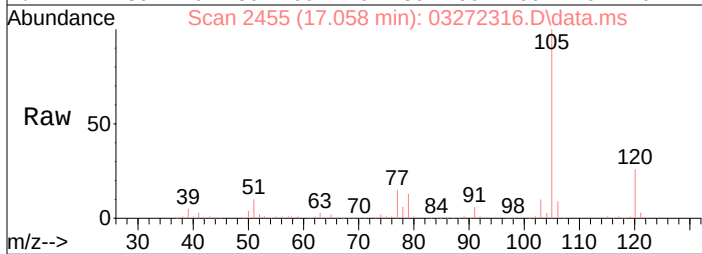
Tgt Ion: 43 Resp: 30541
Ion Ratio Lower Upper
43 100
57 90.6 74.2 114.2
85 32.3 14.2 54.2





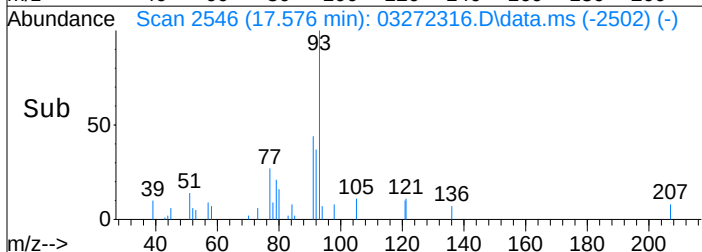
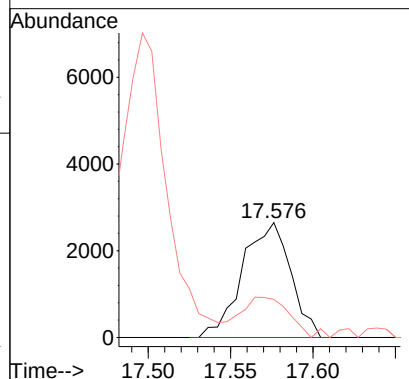
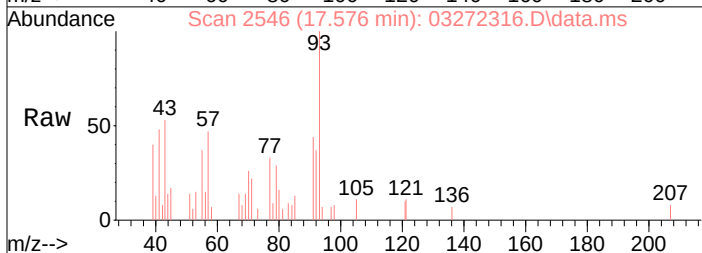
#74
Cumene
Concen: 5.38 ng
RT: 17.06 min Scan# 2455
Delta R.T. -0.006 min
Lab File: 03272316.D
Acq: 27 Mar 2023 12:53

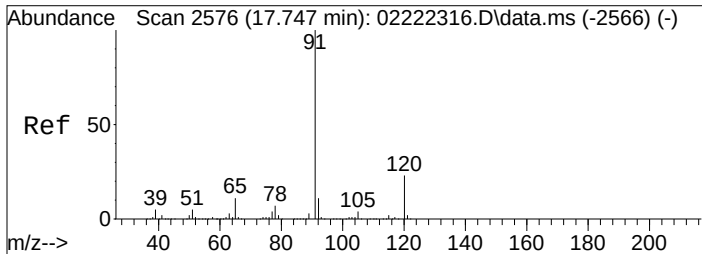
Tgt Ion:	105	Resp:	580216
Ion Ratio	Lower	Upper	
105	100		
120	25.2	5.2	45.2



#75
alpha-Pinene
Concen: 0.11 ng
RT: 17.58 min Scan# 2546
Delta R.T. 0.000 min
Lab File: 03272316.D
Acq: 27 Mar 2023 12:53

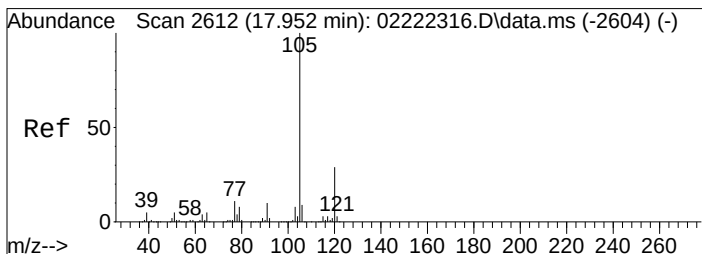
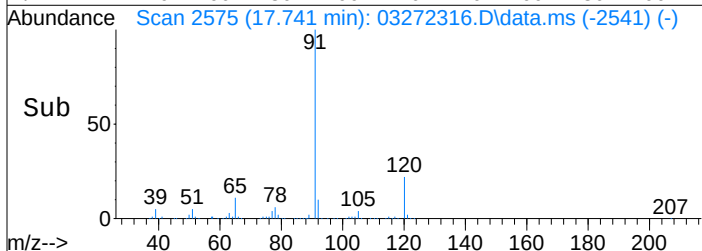
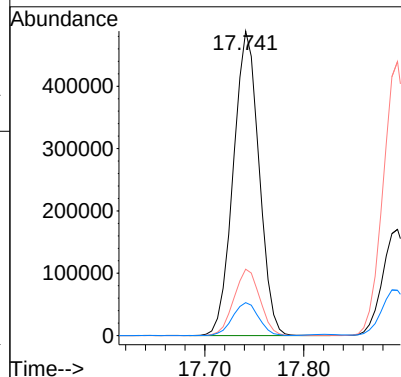
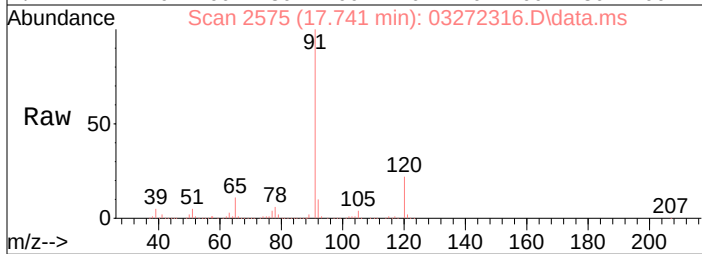
Tgt Ion:	93	Resp:	5381
Ion Ratio	Lower	Upper	
93	100		
77	36.0	11.1	51.1





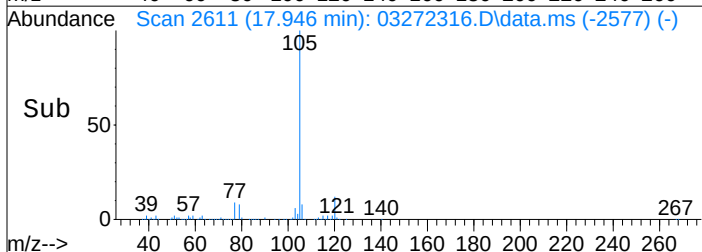
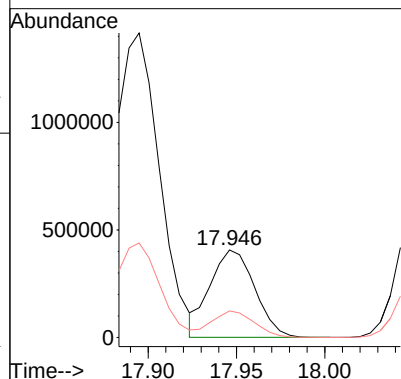
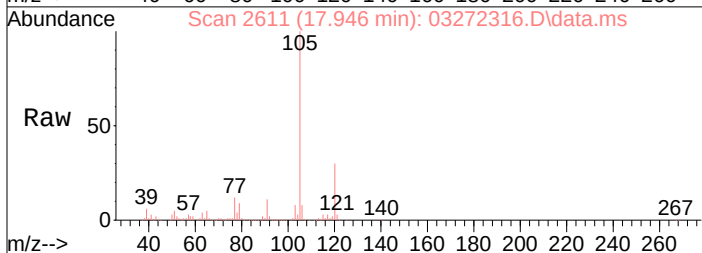
#76
 n-Propylbenzene
 Concen: 6.82 ng
 RT: 17.74 min Scan# 2575
 Delta R.T. -0.006 min
 Lab File: 03272316.D
 Acq: 27 Mar 2023 12:53

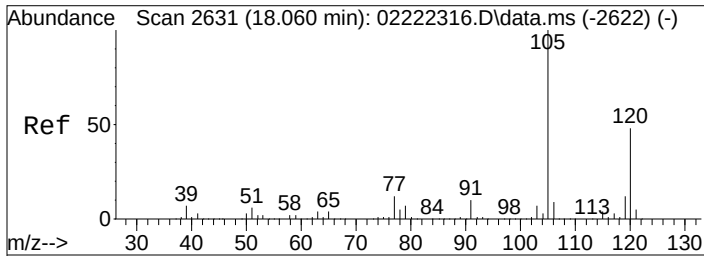
Tgt Ion:	91	Resp:	881029
Ion Ratio	Lower	Upper	
91	100		
120	22.0	2.7	42.7
65	11.0	0.0	30.7



#78
 4-Ethyltoluene
 Concen: 6.92 ng
 RT: 17.95 min Scan# 2611
 Delta R.T. -0.006 min
 Lab File: 03272316.D
 Acq: 27 Mar 2023 12:53

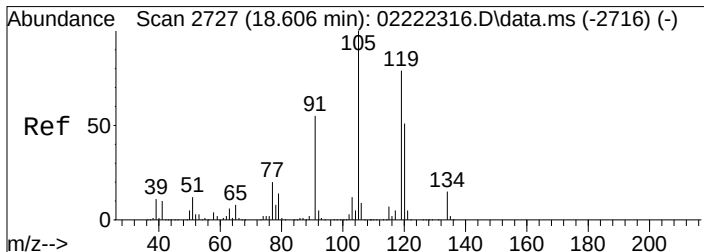
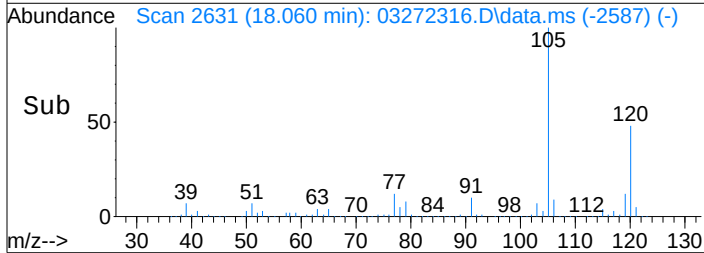
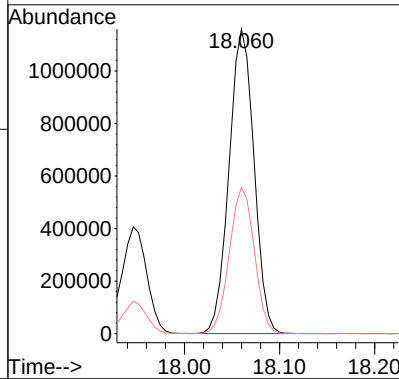
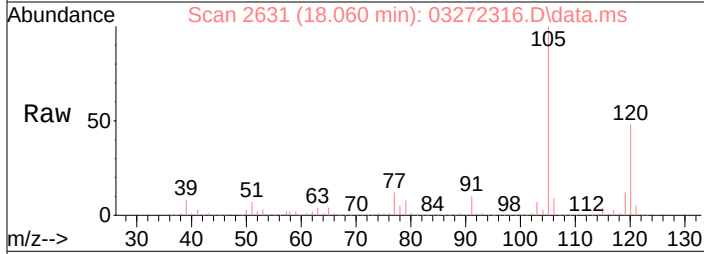
Tgt Ion:	105	Resp:	715409
Ion Ratio	Lower	Upper	
105	100		
120	29.5	9.1	49.1





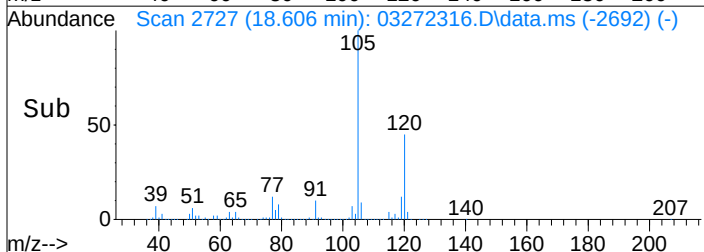
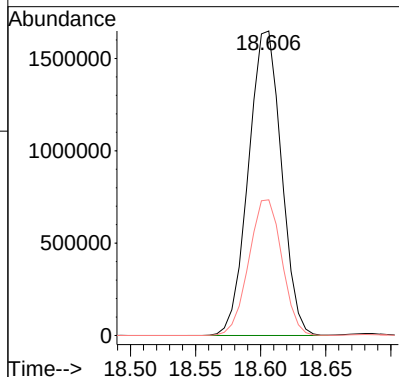
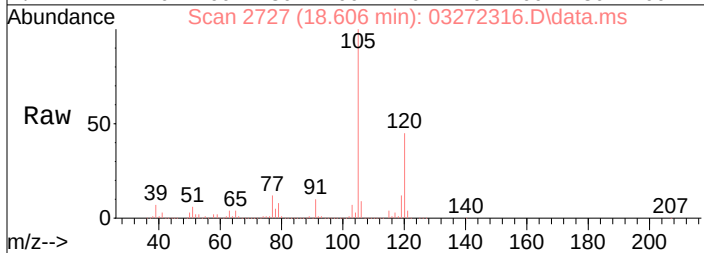
#79
1,3,5-Trimethylbenzene
Concen: 23.12 ng
RT: 18.06 min Scan# 2631
Delta R.T. 0.000 min
Lab File: 03272316.D
Acq: 27 Mar 2023 12:53

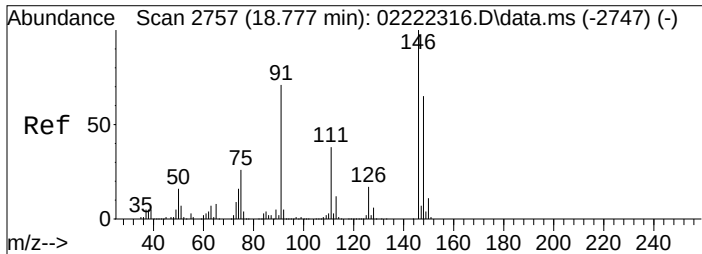
Tgt Ion:105 Resp: 2113421
Ion Ratio Lower Upper
105 100
120 48.0 28.4 68.4



#82
1,2,4-Trimethylbenzene
Concen: 32.21 ng
RT: 18.61 min Scan# 2727
Delta R.T. 0.000 min
Lab File: 03272316.D
Acq: 27 Mar 2023 12:53

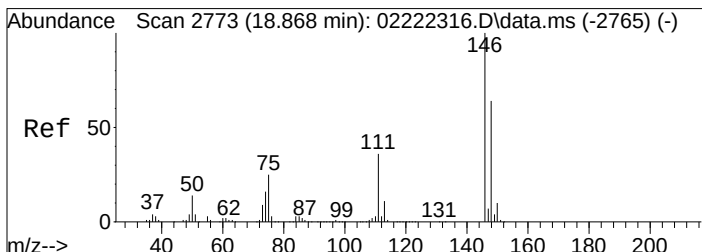
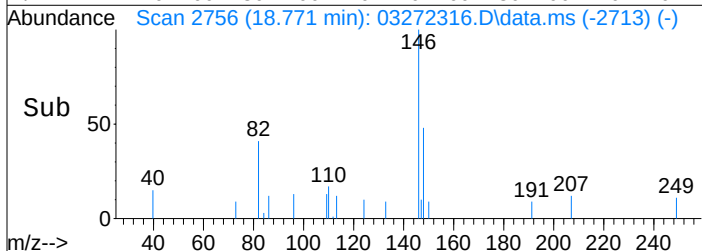
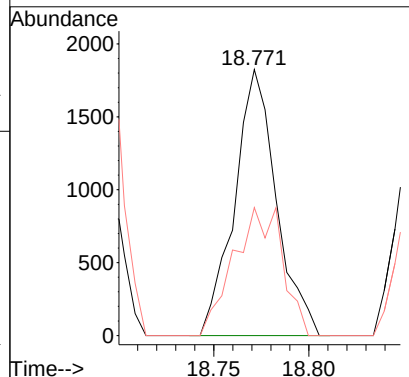
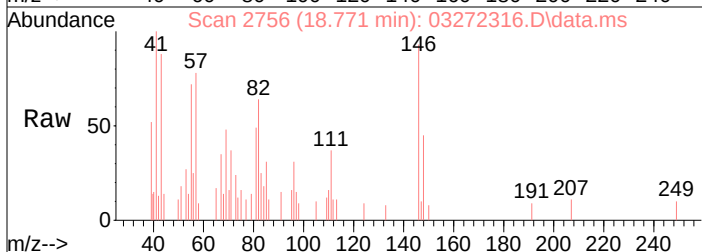
Tgt Ion:105 Resp: 2903341
Ion Ratio Lower Upper
105 100
120 44.9 32.8 72.8





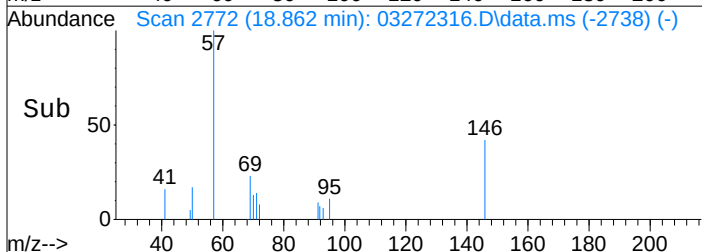
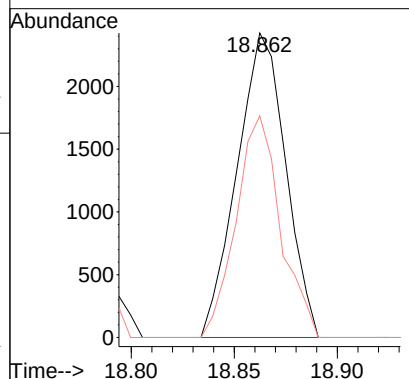
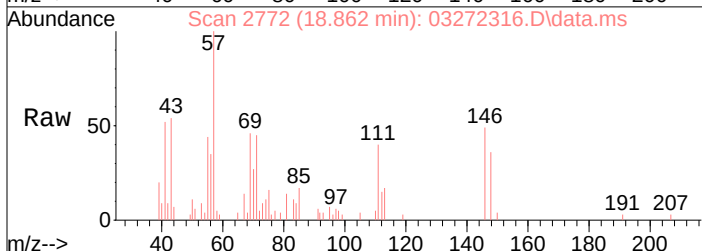
#85
 1,3-Dichlorobenzene
 Concen: 0.05 ng
 RT: 18.77 min Scan# 2756
 Delta R.T. -0.006 min
 Lab File: 03272316.D
 Acq: 27 Mar 2023 12:53

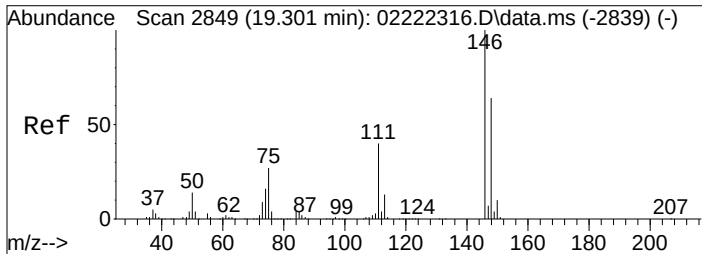
Tgt Ion	Ratio	Lower	Upper
146	100		
148	55.8	44.4	84.4



#86
 1,4-Dichlorobenzene
 Concen: 0.07 ng
 RT: 18.86 min Scan# 2772
 Delta R.T. -0.006 min
 Lab File: 03272316.D
 Acq: 27 Mar 2023 12:53

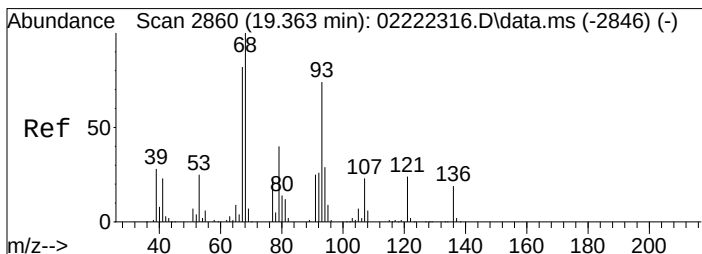
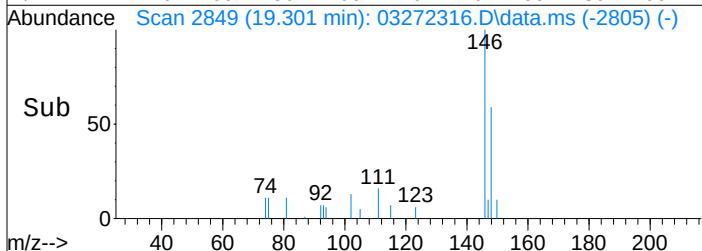
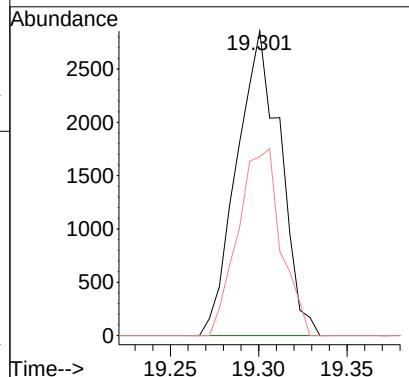
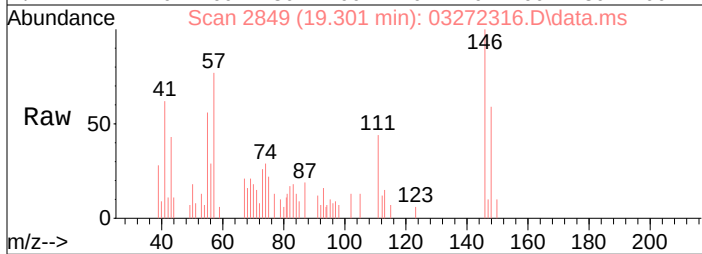
Tgt Ion	Ratio	Lower	Upper
146	100		
148	66.4	44.7	84.7





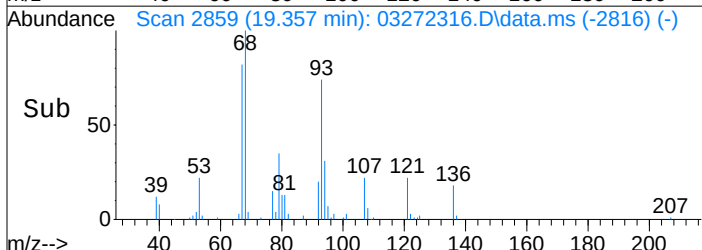
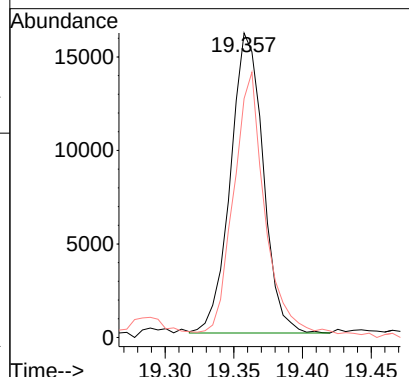
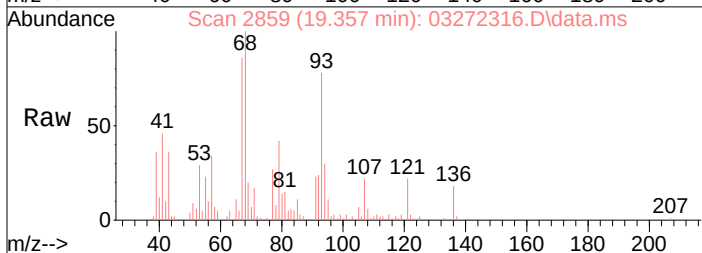
#90
 1,2-Dichlorobenzene
 Concen: 0.09 ng
 RT: 19.30 min Scan# 2849
 Delta R.T. 0.000 min
 Lab File: 03272316.D
 Acq: 27 Mar 2023 12:53

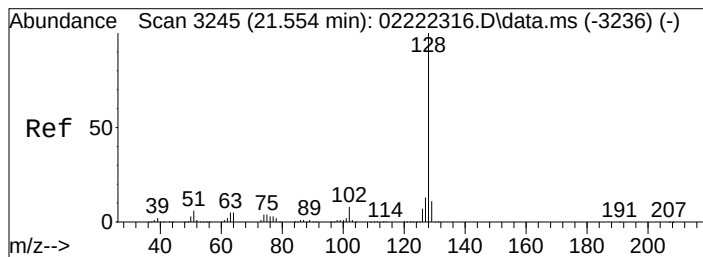
Tgt Ion: 146 Resp: 4884
 Ion Ratio Lower Upper
 146 100
 148 60.8 44.4 84.4



#91
 d-Limonene
 Concen: 0.87 ng
 RT: 19.36 min Scan# 2859
 Delta R.T. -0.006 min
 Lab File: 03272316.D
 Acq: 27 Mar 2023 12:53

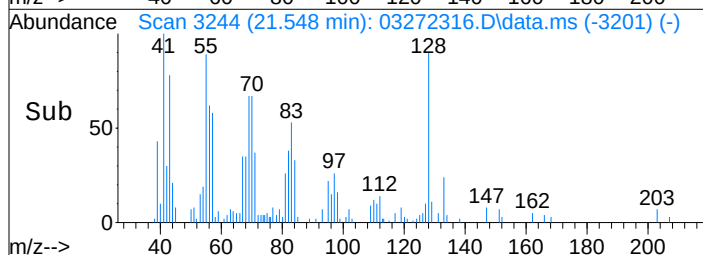
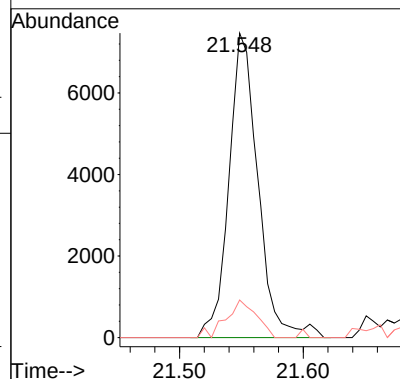
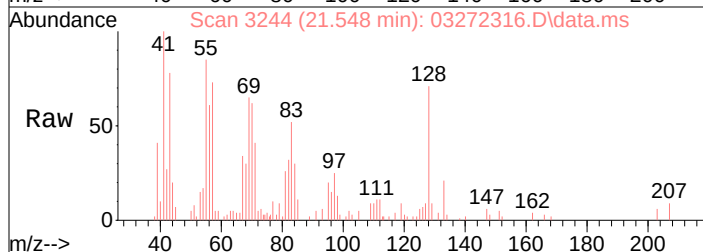
Tgt Ion: 68 Resp: 26606
 Ion Ratio Lower Upper
 68 100
 93 88.1 54.8 94.8





#95
 Naphthalene
 Concen: 0.13 ng
 RT: 21.55 min Scan# 3244
 Delta R.T. -0.006 min
 Lab File: 03272316.D
 Acq: 27 Mar 2023 12:53

Tgt Ion:128 Resp: 12225
 Ion Ratio Lower Upper
 128 100
 129 13.0 0.0 30.9



Data File : I:\MS13\DATA\2023_03\27\03272316.D
 Acq On : 27 Mar 2023 12:53
 Sample : P2301250-028 (1000mL)
 Misc : S35-01202301

Vial: 3
 Operator: TZ
 Inst : MS13

TZ 3/28/23

Quant Time: Mar 28 11:21:04 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.33	130	229012	12.500	ng	0.01
16) 1,4-Difluorobenzene (C_2)	9.38	114	1012259	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	14.88	54	197129	12.500	ng	0.00

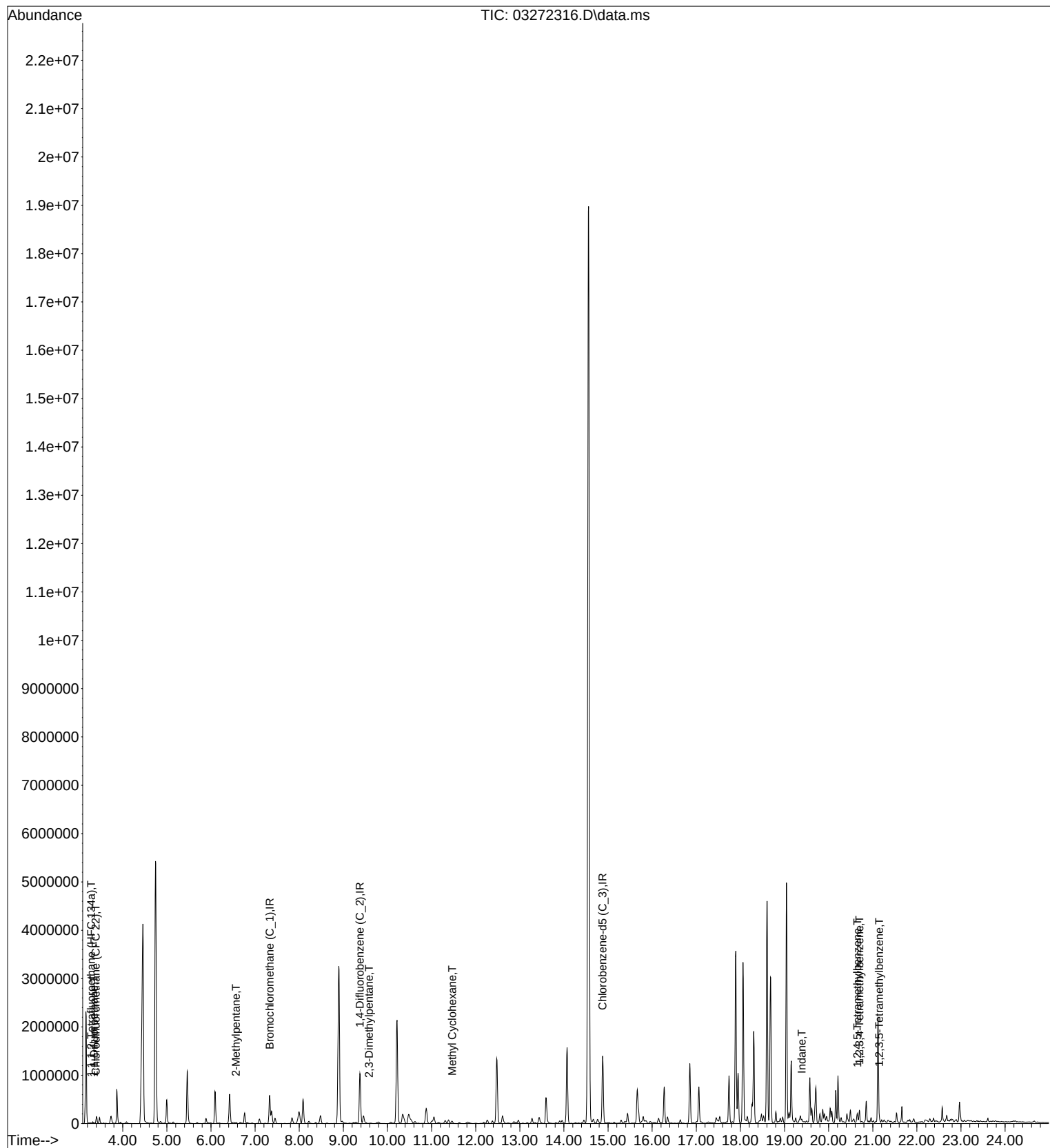
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.25	85	771	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.29	83	3514	0.190	ng	97
4) 1,1-Difluoroethane	3.35	65	3842	0.245	ng	93
5) Chlorodifluoromethane ...	3.39	67	1397	0.250	ng	# 1
6) 1-Chloro-1,1-Difluoroe...	3.60	65	1899	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	4.70	83	55	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	0.00	43	0	N.D.	d	
12) 2-Methylpentane	6.57	71	4323	0.270	ng	# 1
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	8.89	75	770	N.D.		
15) Thiophene	9.14	84	999	N.D.		
17) 2,3-Dimethylpentane	9.59	56	3064	0.103	ng	# 69
18) Dibromomethane	9.88	174	490	N.D.		
20) Methyl Cyclohexane	11.47	55	14551	0.443	ng	# 53
21) 1,3-Dichloropropane	12.61	76	1295	N.D.		
22) 1,1,1,2-Tetrachloroethane	14.91	131	92	N.D.		
23) 1-Chlorohexane	15.24	91	640	N.D.		
24) 1,2,3-Trichloropropane	16.41	75	1071	N.D.		
25) Bromobenzene	17.14	77	312	N.D.		
26) 2-Chlorotoluene	0.00	91	0	N.D.	d	
27) 4-Chlorotoluene	0.00	91	0	N.D.	d	
28) Indane	19.39	117	32190	0.324	ng	95
29) Indene	19.50	115	1580	N.D.		
30) 1,2,4,5-Tetramethylben...	20.65	119	80532	0.813	ng	98
31) 1,2,3,4-Tetramethylben...	20.70	119	125671	1.236	ng	99
32) 1,2,3,5-Tetramethylben...	21.14	119	37614	0.393	ng	97
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\27\03272316.D
Acq On : 27 Mar 2023 12:53
Sample : P2301250-028 (1000mL)
Misc : S35-01202301

Vial: 3
Operator: TZ
Inst : MS13

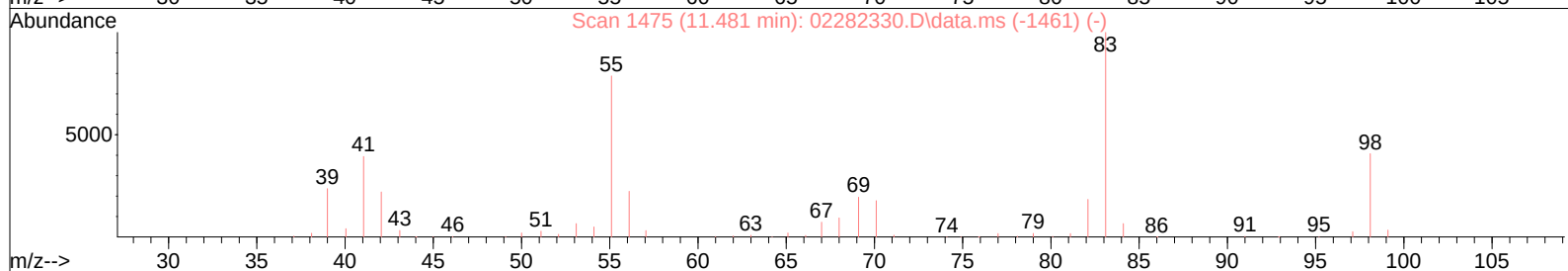
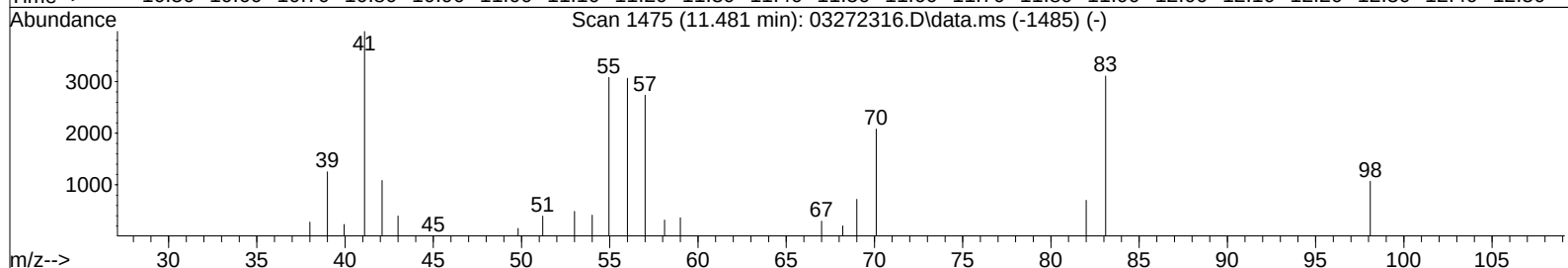
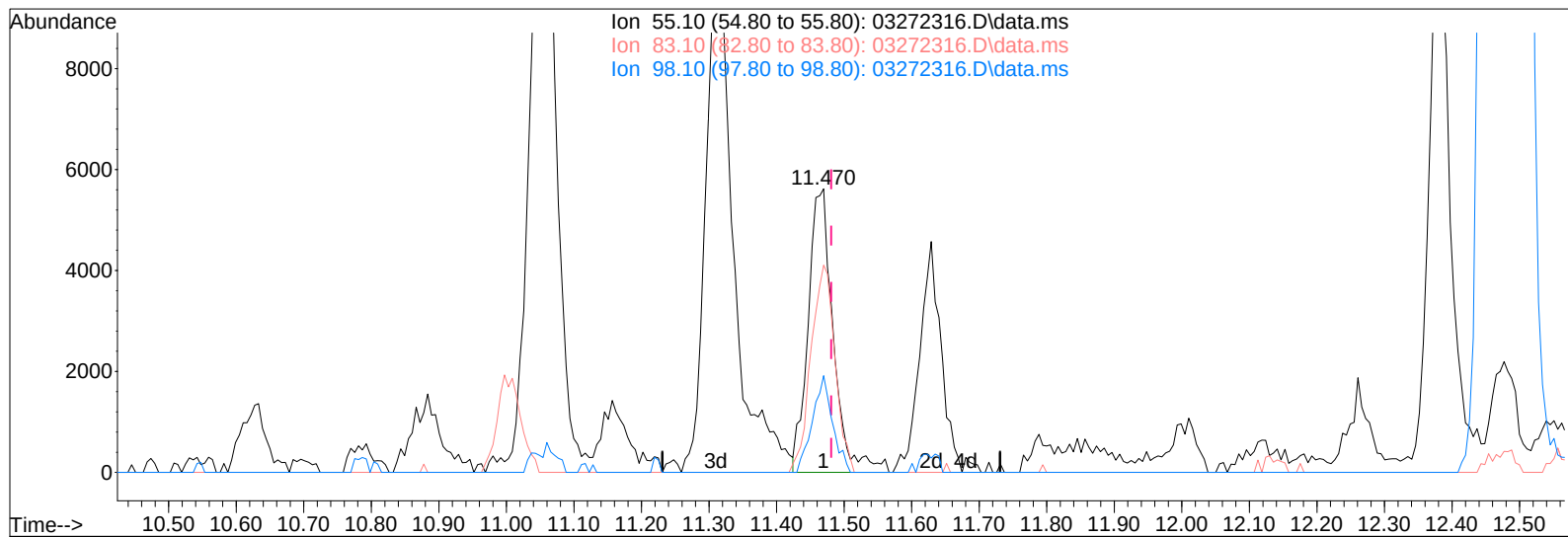
Quant Time: Mar 28 11:21:04 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\27\03272316.D
Acq On : 27 Mar 2023 12:53
Sample : P2301250-028 (1000mL)
Misc : S35-01202301

Vial: 3
Operator: TZ
Inst : MS13

Quant Time: Mar 28 11:18:02 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03272316.D\data.ms

(20) Methyl Cyclohexane (T)

11.470min (-0.011) 0.44ng

response 14551

Ion	Exp%	Act%
55.10	100	100
83.10	128.30	69.67#
98.10	53.10	27.16#
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG1-1

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-029

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01093

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.46 Final Pressure (psig): 3.58

Container Dilution Factor: 1.49

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.9	0.79	0.13	0.58	0.16	0.026	
74-87-3	Chloromethane	0.27	0.31	0.13	0.13	0.15	0.062	J
75-01-4	Vinyl Chloride	ND	0.16	0.085	ND	0.064	0.033	
74-83-9	Bromomethane	ND	0.31	0.11	ND	0.081	0.028	
75-00-3	Chloroethane	ND	0.31	0.098	ND	0.12	0.037	
67-64-1	Acetone	6.6	7.9	1.8	2.8	3.3	0.75	J
75-69-4	Trichlorofluoromethane	1.4	0.77	0.12	0.26	0.14	0.021	
75-35-4	1,1-Dichloroethene	ND	0.16	0.11	ND	0.041	0.028	
75-09-2	Methylene Chloride	0.40	0.79	0.22	0.11	0.23	0.064	J
76-13-1	Trichlorotrifluoroethane	0.50	0.80	0.11	0.065	0.11	0.015	J
75-15-0	Carbon Disulfide	ND	1.6	0.24	ND	0.51	0.077	
156-60-5	trans-1,2-Dichloroethene	ND	0.16	0.11	ND	0.041	0.028	
75-34-3	1,1-Dichloroethane	ND	0.16	0.12	ND	0.041	0.029	
1634-04-4	Methyl tert-Butyl Ether	ND	0.80	0.094	ND	0.22	0.026	
78-93-3	2-Butanone (MEK)	0.83	1.5	0.16	0.28	0.53	0.056	J
156-59-2	cis-1,2-Dichloroethene	0.22	0.16	0.11	0.055	0.041	0.028	
67-66-3	Chloroform	0.35	0.16	0.11	0.071	0.034	0.022	
107-06-2	1,2-Dichloroethane	ND	0.16	0.088	ND	0.041	0.022	
71-55-6	1,1,1-Trichloroethane	0.17	0.16	0.098	0.031	0.030	0.018	
71-43-2	Benzene	0.55	0.16	0.11	0.17	0.051	0.036	
56-23-5	Carbon Tetrachloride	0.46	0.16	0.11	0.073	0.026	0.018	
110-82-7	Cyclohexane	ND	1.6	0.22	ND	0.45	0.065	
78-87-5	1,2-Dichloropropane	ND	0.16	0.098	ND	0.035	0.021	
75-27-4	Bromodichloromethane	ND	0.16	0.11	ND	0.024	0.017	
79-01-6	Trichloroethene	0.67	0.16	0.11	0.13	0.031	0.020	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG1-1

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-029

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01093

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.46 Final Pressure (psig): 3.58

Container Dilution Factor: 1.49

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.80	0.12	ND	0.18	0.027	
108-10-1	4-Methyl-2-pentanone	ND	1.6	0.11	ND	0.40	0.027	
10061-02-6	trans-1,3-Dichloropropene	ND	0.76	0.16	ND	0.17	0.036	
79-00-5	1,1,2-Trichloroethane	ND	0.16	0.080	ND	0.030	0.015	
108-88-3	Toluene	0.88	0.79	0.097	0.23	0.21	0.026	
591-78-6	2-Hexanone	0.17	1.6	0.098	0.042	0.40	0.024	J
124-48-1	Dibromochloromethane	ND	0.16	0.10	ND	0.019	0.012	
106-93-4	1,2-Dibromoethane	ND	0.16	0.092	ND	0.021	0.012	
127-18-4	Tetrachloroethene	0.19	0.16	0.10	0.028	0.024	0.015	
108-90-7	Chlorobenzene	ND	0.79	0.11	ND	0.17	0.023	
100-41-4	Ethylbenzene	0.15	0.79	0.11	0.034	0.18	0.026	J
179601-23-1	m,p-Xylenes	0.34	1.6	0.21	0.077	0.38	0.048	J
75-25-2	Bromoform	ND	0.80	0.16	ND	0.078	0.016	
100-42-5	Styrene	ND	0.79	0.13	ND	0.19	0.030	
95-47-6	o-Xylene	0.14	0.79	0.11	0.031	0.18	0.026	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	0.11	ND	0.024	0.016	
98-82-8	Cumene	ND	0.80	0.11	ND	0.16	0.023	
541-73-1	1,3-Dichlorobenzene	ND	0.79	0.12	ND	0.13	0.020	
106-46-7	1,4-Dichlorobenzene	ND	0.79	0.12	ND	0.13	0.020	
95-50-1	1,2-Dichlorobenzene	ND	0.80	0.12	ND	0.13	0.020	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.6	0.15	ND	0.17	0.015	
120-82-1	1,2,4-Trichlorobenzene	ND	1.6	0.19	ND	0.22	0.026	
79-20-9	Methyl Acetate	0.63	0.75	0.36	0.21	0.25	0.12	J, X
108-87-2	Methylcyclohexane	ND	0.75	0.39	ND	0.19	0.097	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS16\DATA\2023_03\24\03242312.D
 Acq On : 24 Mar 2023 12:16
 Sample : P2301250-029 (1000mL)
 Misc : S35-01312301

Vial: 9
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 24 12:57:02 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

107 3/26/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	222697	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	1026833	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.72	54	225270	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	393897	13.300	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	106.40%
57) Toluene-d8 (SS2)	15.86	98	1175961	11.924	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	95.36%
73) Bromofluorobenzene (SS3)	19.10	174	353900	11.505	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.08%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	4.34	85	63973	1.922	ng	100
4) Chloromethane	4.63	50	5614	0.180	ng	93
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	1402	0.075	ng	88
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.33	54	458	N.D.		
8) Bromomethane	5.77	94	408	N.D.		
9) Chloroethane	6.10	64	112	N.D.		
10) Ethanol	6.47	45	62522	2.917	ng	98
11) Acetonitrile	6.74	41	3628	0.068	ng	78
12) Acrolein	6.94	56	4691	0.309	ng	97
13) Acetone	7.15	58	73040	4.456	ng	# 79
14) Trichlorofluoromethane	7.38	101	29889	0.973	ng	98
15) 2-Propanol (Isopropanol)	7.68	45	15532	0.272	ng	86
16) Acrylonitrile	7.91	53	778	N.D.		
17) 1,1-Dichloroethene	8.34	96	122	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	8.56	84	4839	0.267	ng	83
20) 3-Chloro-1-propene (Al...	8.65	41	1177	N.D.		
21) Trichlorotrifluoroethane	9.00	151	5127	0.335	ng	92
22) Carbon Disulfide	8.84	76	2609	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	10.10	63	1796	0.054	ng	92
25) Methyl tert-Butyl Ether	10.25	73	372	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	10.62	72	6595	0.555	ng	96
28) cis-1,2-Dichloroethene	11.11	61	4001	0.147	ng	94
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	11.42	61	29848	3.841	ng	97
31) n-Hexane	11.40	57	6215	0.160	ng	98
32) Chloroform	11.45	83	6882	0.232	ng	99
34) Tetrahydrofuran (THF)	11.94	72	323	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	12.26	62	1175	N.D.		
38) 1,1,1-Trichloroethane	12.54	97	3192	0.115	ng	96
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.02	78	26644	0.368	ng	97
42) Carbon Tetrachloride	13.17	117	7234	0.308	ng	100
43) Cyclohexane	13.31	84	2151	0.070	ng	95
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	14.07	83	764	N.D.		
47) Trichloroethene	14.11	130	8894	0.452	ng	99
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	14.18	57	13116	0.134	ng	70
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS16\DATA\2023_03\24\03242312.D
 Acq On : 24 Mar 2023 12:16
 Sample : P2301250-029 (1000mL)
 Misc : S35-01312301

Vial: 9
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 24 12:57:02 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

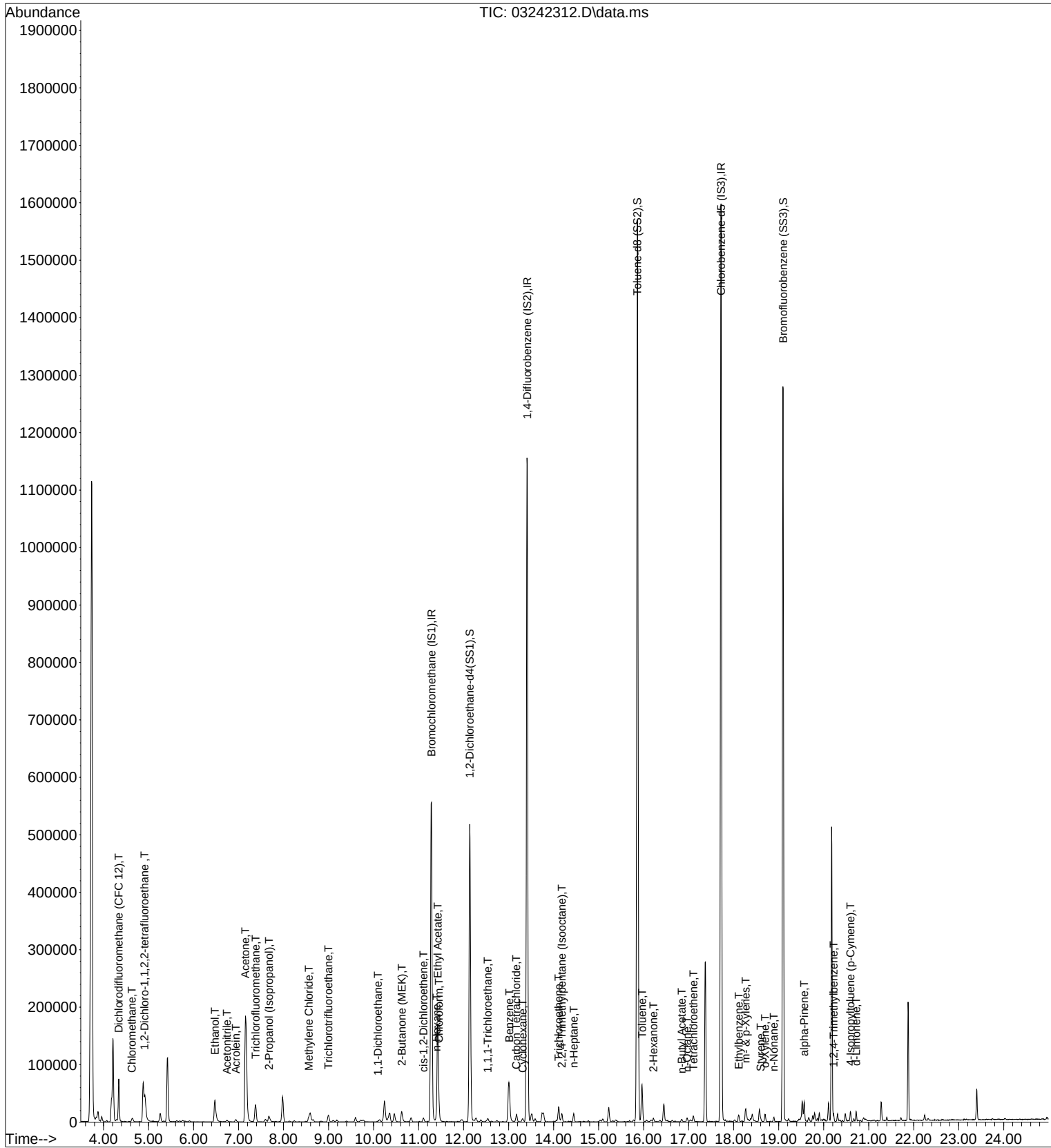
DataAcq Meth:T015B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.45	71	3235	0.152	ng	95
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	15.03	58	769	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.96	91	50808	0.588	ng	99
59) 2-Hexanone	16.22	43	5313	0.116	ng	78
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.84	43	3937	0.076	ng	98
63) n-Octane	16.97	57	1220	0.055	ng	97
64) Tetrachloroethene	17.11	166	2790	0.127	ng	96
65) Chlorobenzene	17.76	112	143	N.D.		
66) Ethylbenzene	18.11	91	9751	0.100	ng	98
67) m- & p-Xylenes	18.27	91	17351	0.225	ng	98
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.60	104	2720	0.050	ng	93
70) o-Xylene	18.70	91	6928	0.091	ng	99
71) n-Nonane	18.89	43	3340	0.062	ng	88
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	19.22	105	2421	N.D.		
75) alpha-Pinene	19.57	93	12229	0.498	ng	95
76) n-Propylbenzene	19.67	91	2646	N.D.		
77) 3-Ethyltoluene	20.22	105	6255	No Calib	#	
78) 4-Ethyltoluene	19.80	105	2380	N.D.		
79) 1,3,5-Trimethylbenzene	19.86	105	2262	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.22	105	6255	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.22	105	6255	0.080	ng	83
83) n-Decane	20.18	58	518	No Calib	#	
84) Benzyl Chloride	20.43	91	190	N.D.		
85) 1,3-Dichlorobenzene	20.41	146	262	N.D.		
86) 1,4-Dichlorobenzene	20.41	146	262	N.D.		
87) sec-Butylbenzene	20.46	105	530	N.D.		
88) 4-Isopropyltoluene (p-...	20.59	119	7673	0.067	ng	96
89) 1,2,3-Trimethylbenzene	20.22	105	6255	No Calib	#	
90) 1,2-Dichlorobenzene	20.72	146	110	N.D.		
91) d-Limonene	20.72	68	3771	0.170	ng	97
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	21.28	58	288	No Calib	#	
94) 1,2,4-Trichlorobenzene	22.23	180	495	N.D.		
95) Naphthalene	22.33	128	1133	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	18.20	55	309	No Calib	#	
99) tert-Butylbenzene	0.00	119	0	N.D.	d	
100) n-Butylbenzene	20.95	91	1080	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Vial: 9
Operator: WA
Inst : GCMS-16

Quant Time: Mar 24 12:57:02 2023



Data File : I:\MS16\DATA\2023_03\24\03242312.D
 Acq On : 24 Mar 2023 12:16
 Sample : P2301250-029 (1000mL)
 Misc : S35-01312301

Vial: 9
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 24 12:57:02 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

3/24/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	222697	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	1026833	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.72	54	225270	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	393897	13.300	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	106.40%	
57) Toluene-d8 (SS2)	15.86	98	1175961	11.924	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	95.36%	
73) Bromofluorobenzene (SS3)	19.10	174	353900	11.505	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	92.08%	

Target Compounds

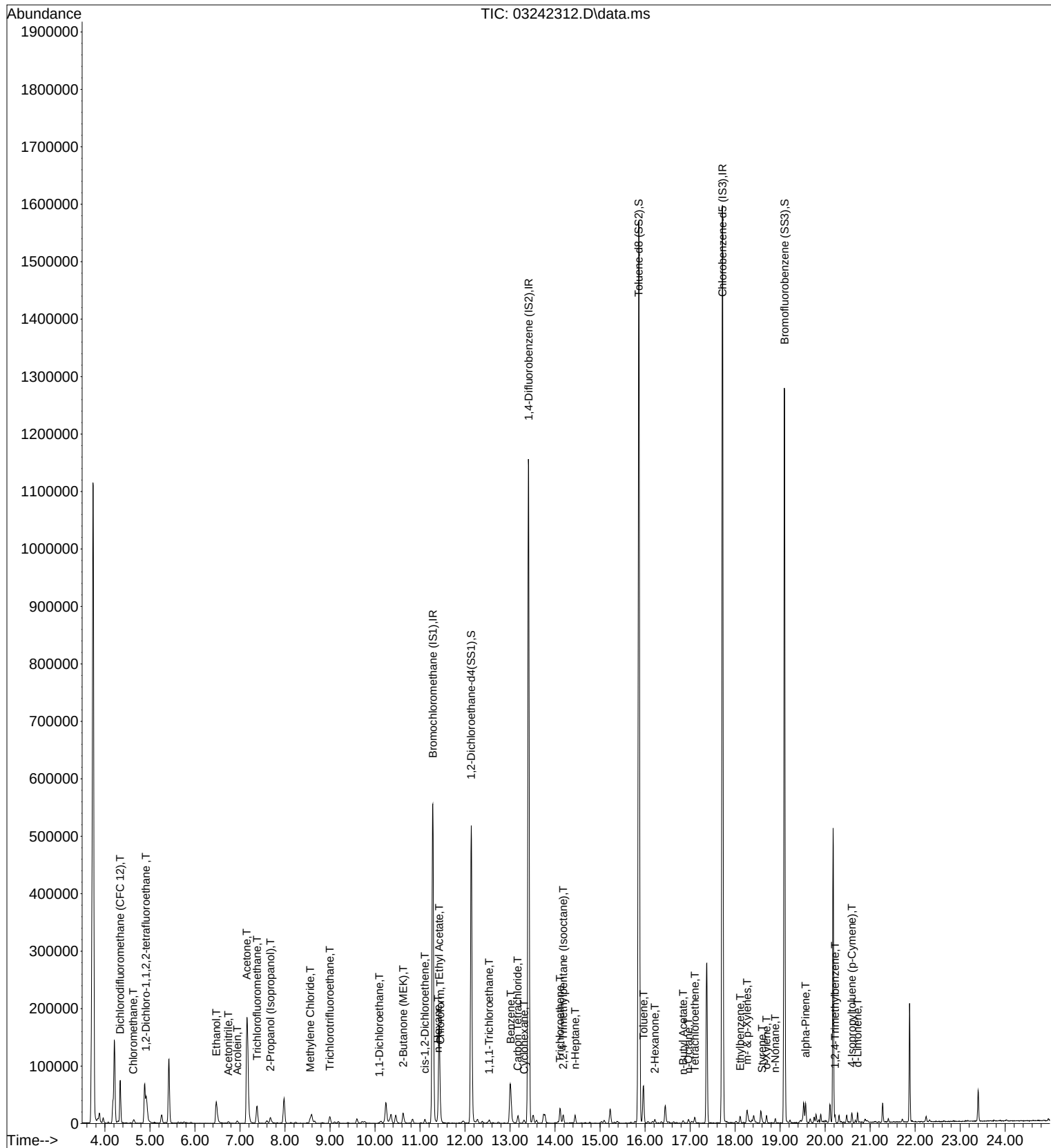
						Qvalue
3) Dichlorodifluoromethan...	4.34	85	63973	1.922	ng	100
4) Chloromethane	4.63	50	5614	0.180	ng	93
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	1402	0.075	ng	88
10) Ethanol	6.47	45	62522	2.917	ng	98
11) Acetonitrile	6.74	41	3628	0.068	ng	78
12) Acrolein	6.94	56	4691	0.309	ng	97
13) Acetone	7.15	58	73040	4.456	ng	# 79
14) Trichlorofluoromethane	7.38	101	29889	0.973	ng	98
15) 2-Propanol (Isopropanol)	7.68	45	15532	0.272	ng	86
19) Methylene Chloride	8.56	84	4839	0.267	ng	83
21) Trichlorotrifluoroethane	9.00	151	5127	0.335	ng	92
24) 1,1-Dichloroethane	10.10	63	1796	0.054	ng	92
27) 2-Butanone (MEK)	10.62	72	6595	0.555	ng	96
28) cis-1,2-Dichloroethene	11.11	61	4001	0.147	ng	94
30) Ethyl Acetate	11.42	61	29848	3.841	ng	97
31) n-Hexane	11.40	57	6215	0.160	ng	98
32) Chloroform	11.45	83	6882	0.232	ng	99
38) 1,1,1-Trichloroethane	12.54	97	3192	0.115	ng	96
41) Benzene	13.02	78	26644	0.368	ng	97
42) Carbon Tetrachloride	13.17	117	7234	0.308	ng	100
43) Cyclohexane	13.31	84	2151	0.070	ng	95
47) Trichloroethene	14.11	130	8894	0.452	ng	99
49) 2,2,4-Trimethylpentane...	14.18	57	13116	0.134	ng	70
51) n-Heptane	14.45	71	3235	0.152	ng	95
58) Toluene	15.96	91	50808	0.588	ng	99
59) 2-Hexanone	16.22	43	5313	0.116	ng	78
62) n-Butyl Acetate	16.84	43	3937	0.076	ng	98
63) n-Octane	16.97	57	1220	0.055	ng	97
64) Tetrachloroethene	17.11	166	2790	0.127	ng	96
66) Ethylbenzene	18.11	91	9751	0.100	ng	98
67) m- & p-Xylenes	18.27	91	17351	0.225	ng	98
69) Styrene	18.60	104	2720	0.050	ng	93
70) o-Xylene	18.70	91	6928	0.091	ng	99
71) n-Nonane	18.89	43	3340	0.062	ng	88
75) alpha-Pinene	19.57	93	12229	0.498	ng	95
82) 1,2,4-Trimethylbenzene	20.22	105	6255	0.080	ng	83
88) 4-Isopropyltoluene (p-...	20.59	119	7673	0.067	ng	96
91) d-Limonene	20.72	68	3771	0.170	ng	97

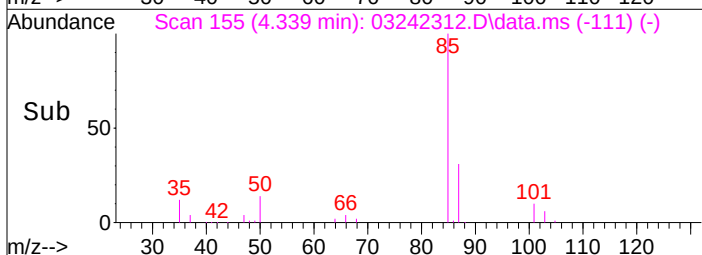
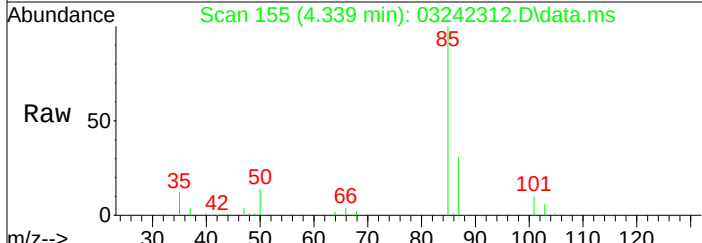
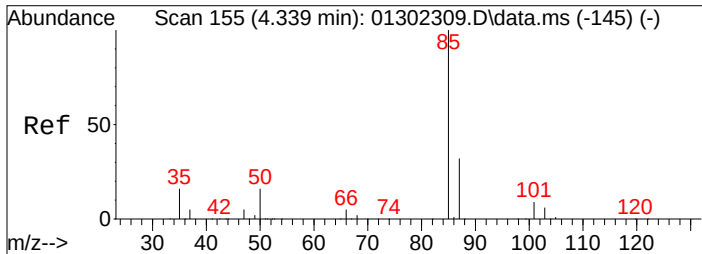
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS16\DATA\2023_03\24\03242312.D
Acq On : 24 Mar 2023 12:16
Sample : P2301250-029 (1000mL)
Misc : S35-01312301

Vial: 9
Operator: WA
Inst : GCMS-16

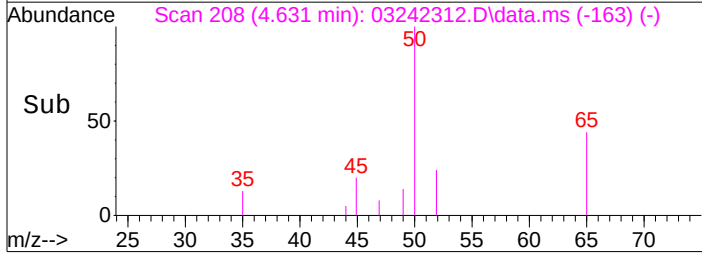
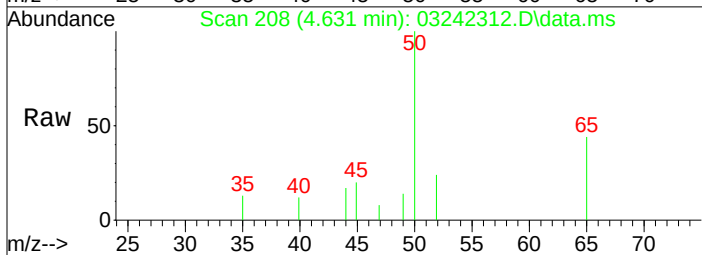
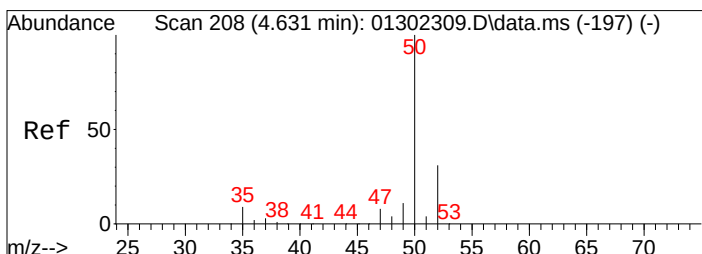
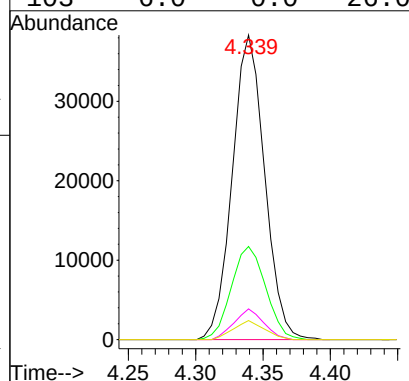
Quant Time: Mar 24 12:57:02 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M





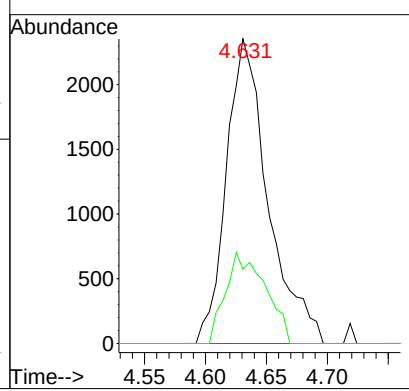
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.92 ng
 RT: 4.34 min Scan# 155
 Delta R.T. -0.011 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:16

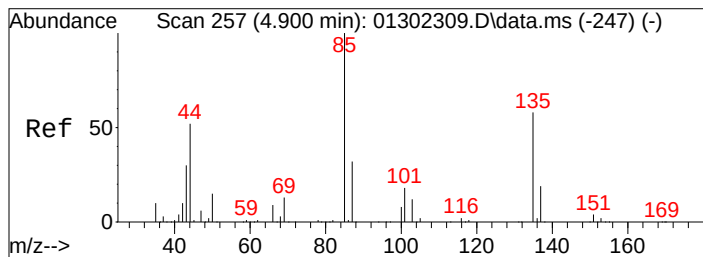
Tgt Ion:	85	Resp:	63973
Ion Ratio	Lower	Upper	
85	100		
87	32.5	12.1	52.1
101	9.3	0.0	29.3
103	6.0	0.0	26.0



#4
 Chloromethane
 Concen: 0.18 ng
 RT: 4.63 min Scan# 208
 Delta R.T. -0.005 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:16

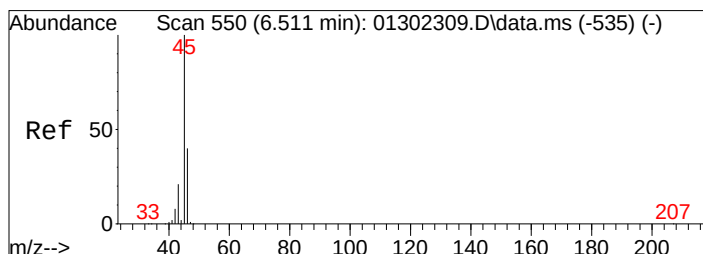
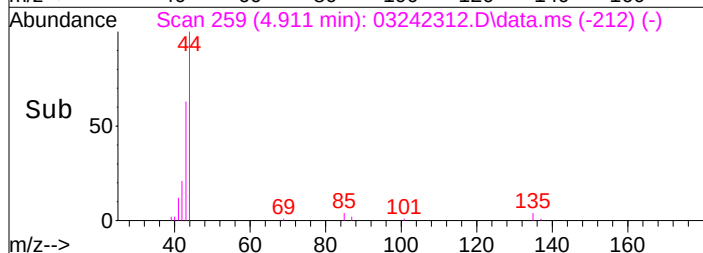
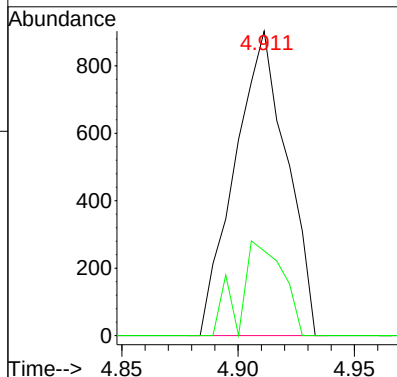
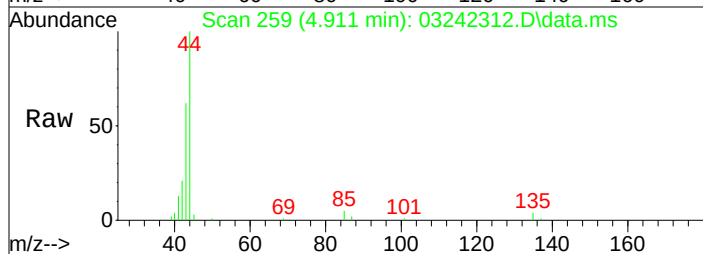
Tgt Ion:	50	Resp:	5614
Ion Ratio	Lower	Upper	
50	100		
52	28.4	12.2	52.2





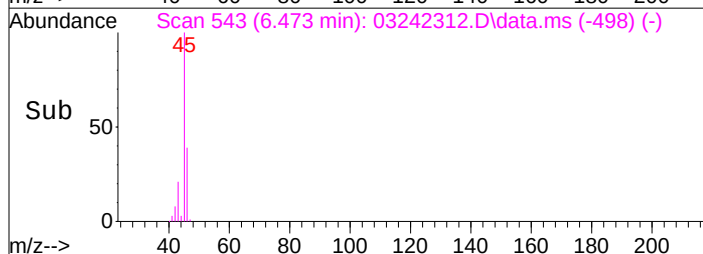
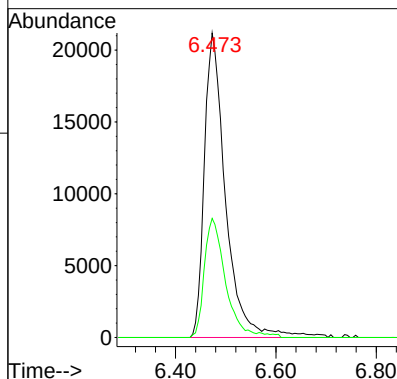
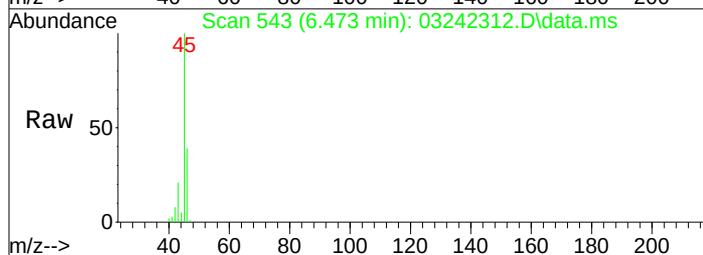
#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.08 ng
 RT: 4.91 min Scan# 259
 Delta R.T. 0.006 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:16

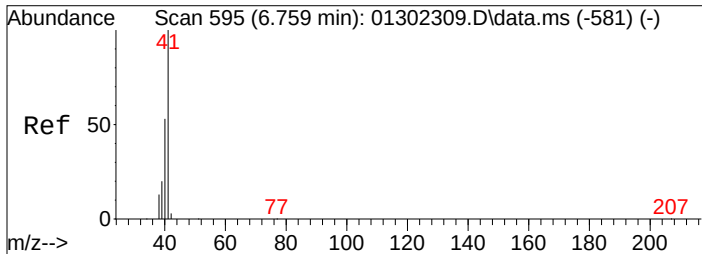
Tgt Ion: 135 Resp: 1402
 Ion Ratio Lower Upper
 135 100
 137 25.5 12.0 52.0



#10
 Ethanol
 Concen: 2.92 ng
 RT: 6.47 min Scan# 543
 Delta R.T. -0.005 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:16

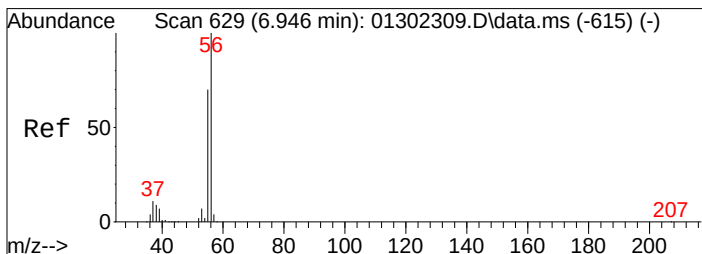
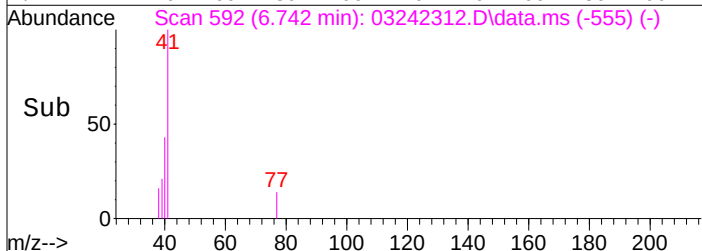
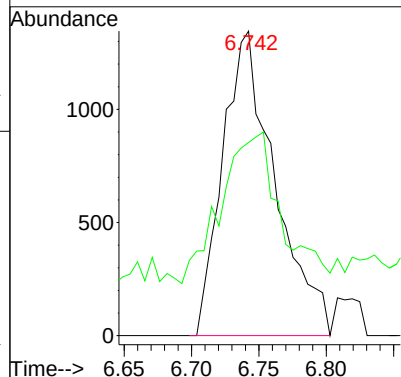
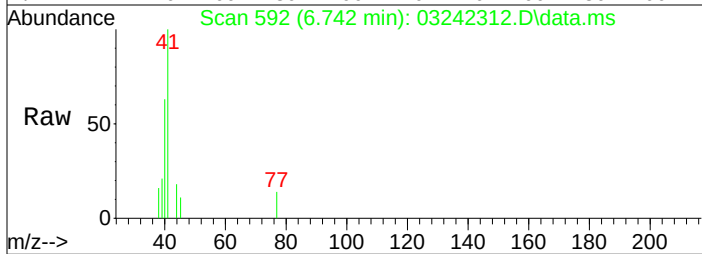
Tgt Ion: 45 Resp: 62522
 Ion Ratio Lower Upper
 45 100
 46 39.0 20.5 60.5





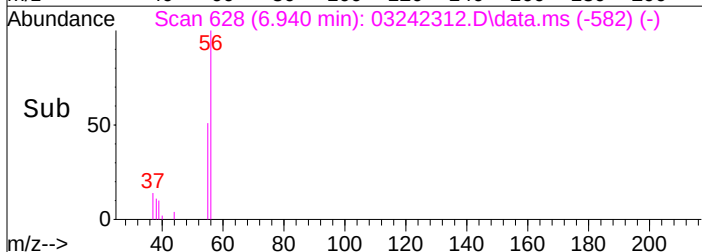
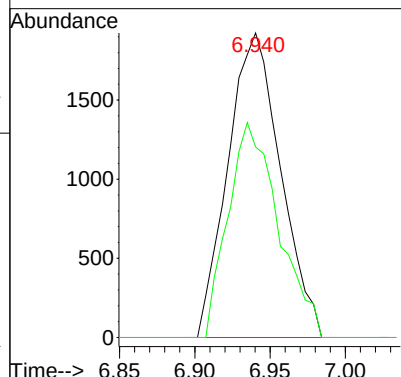
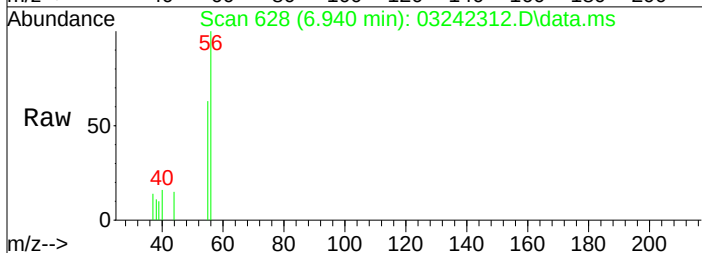
#11
Acetonitrile
Concen: 0.07 ng
RT: 6.74 min Scan# 592
Delta R.T. 0.005 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:16

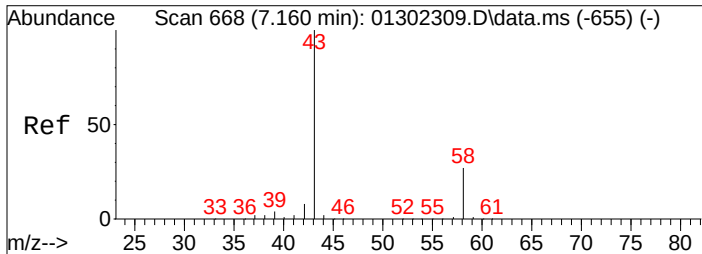
Tgt Ion: 41 Resp: 3628
Ion Ratio Lower Upper
41 100
40 67.8 32.4 72.4



#12
Acrolein
Concen: 0.31 ng
RT: 6.94 min Scan# 628
Delta R.T. 0.005 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:16

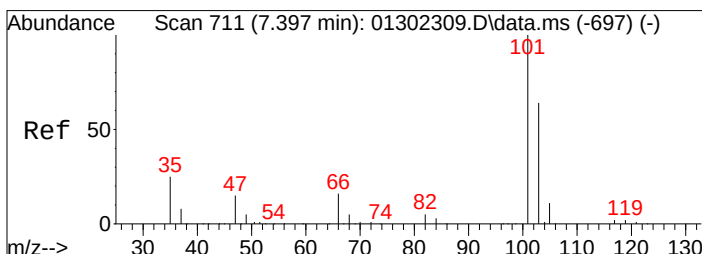
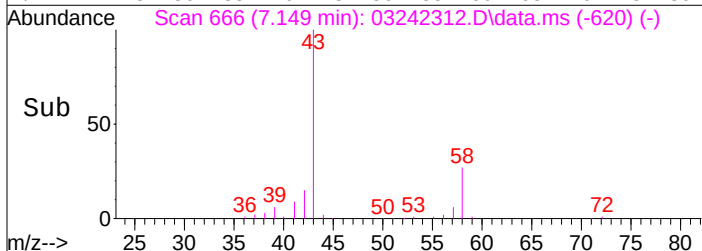
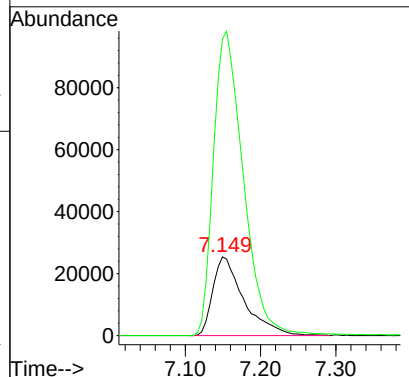
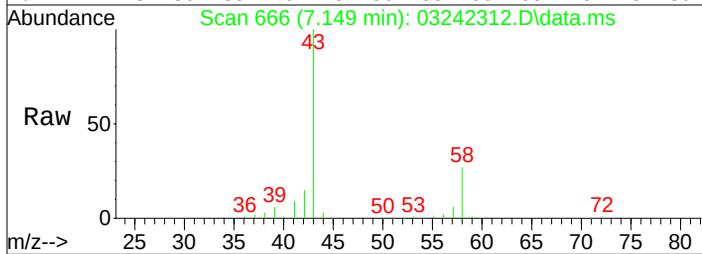
Tgt Ion: 56 Resp: 4691
Ion Ratio Lower Upper
56 100
55 67.5 49.9 89.9





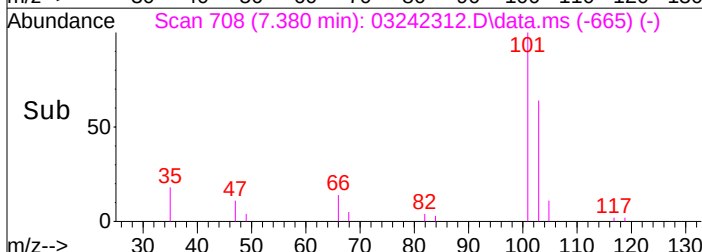
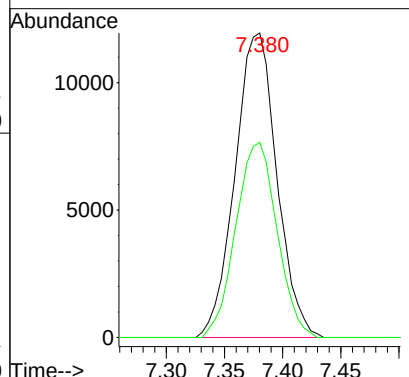
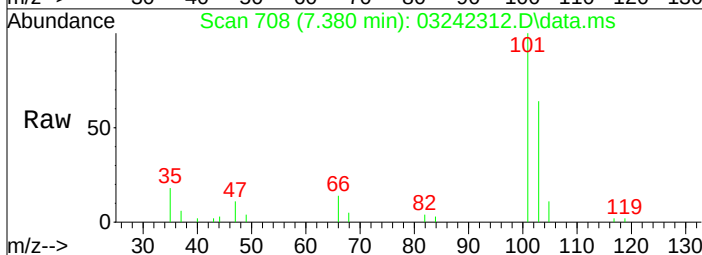
#13
 Acetone
 Concen: 4.46 ng
 RT: 7.15 min Scan# 666
 Delta R.T. 0.005 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:16

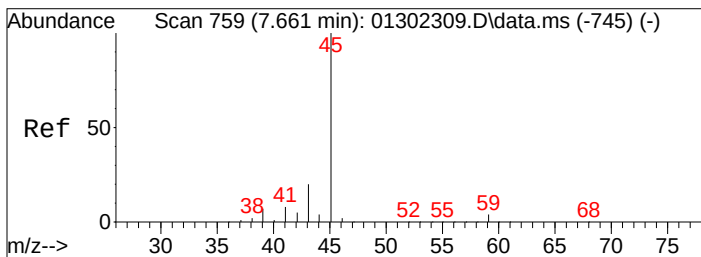
Tgt Ion	Ratio	Lower	Upper
58	100		
43	373.2	298.5	358.5#



#14
 Trichlorofluoromethane
 Concen: 0.97 ng
 RT: 7.38 min Scan# 708
 Delta R.T. -0.016 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:16

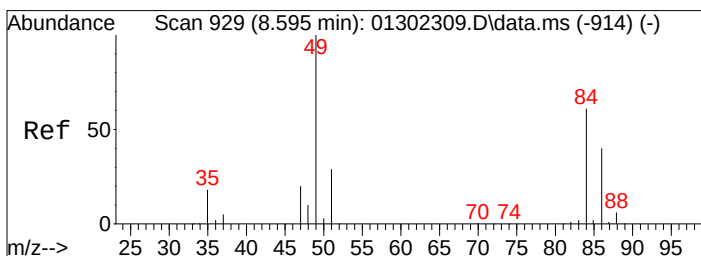
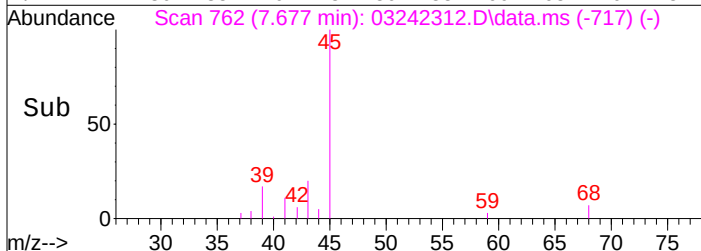
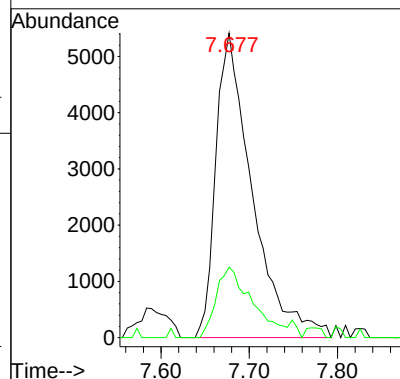
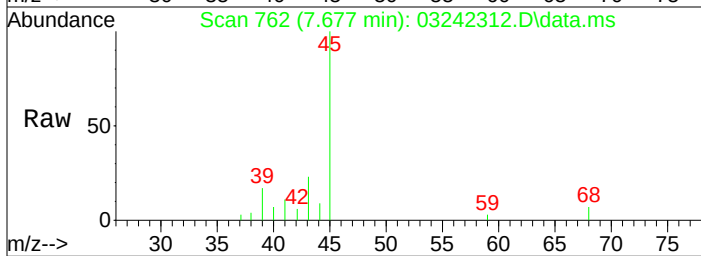
Tgt Ion	Ratio	Lower	Upper
101	100		
103	63.3	44.8	84.8





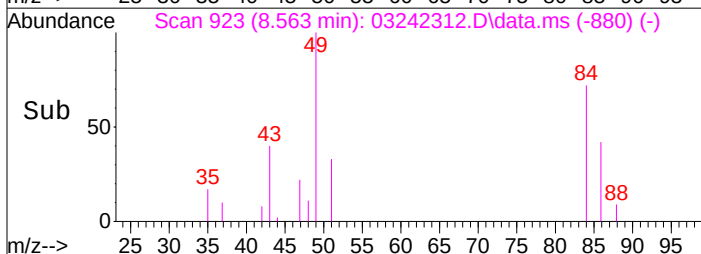
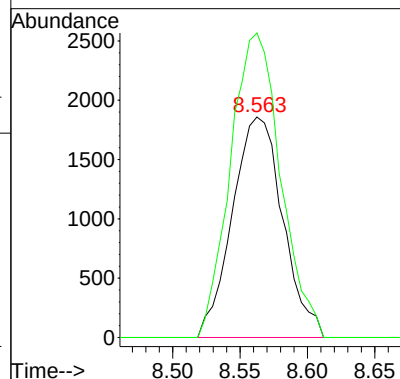
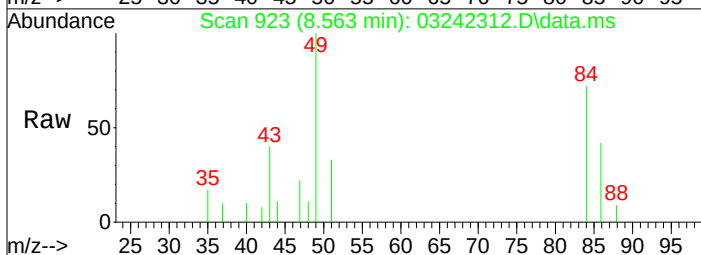
#15
2-Propanol (Isopropanol)
Concen: 0.27 ng
RT: 7.68 min Scan# 762
Delta R.T. -0.003 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:16

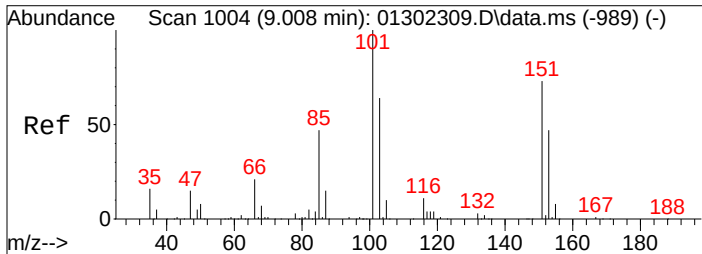
Tgt Ion: 45 Resp: 15532
Ion Ratio Lower Upper
45 100
43 24.0 0.0 37.9



#19
Methylene Chloride
Concen: 0.27 ng
RT: 8.56 min Scan# 923
Delta R.T. -0.016 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:16

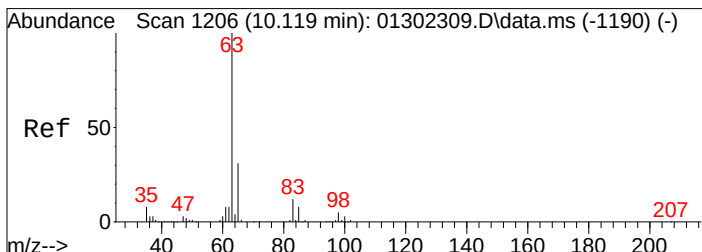
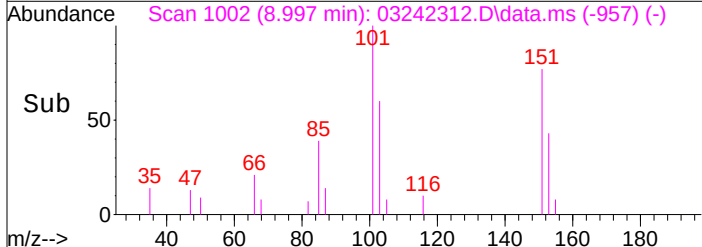
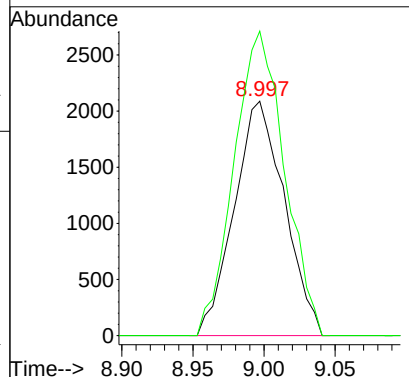
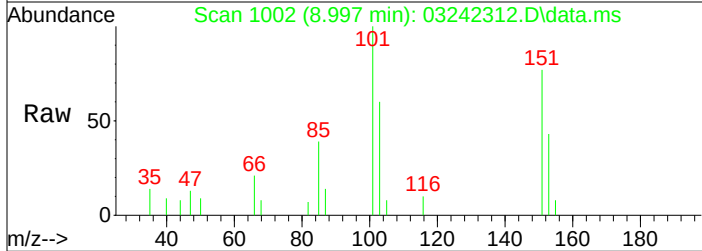
Tgt Ion: 84 Resp: 4839
Ion Ratio Lower Upper
84 100
49 137.7 135.0 185.0





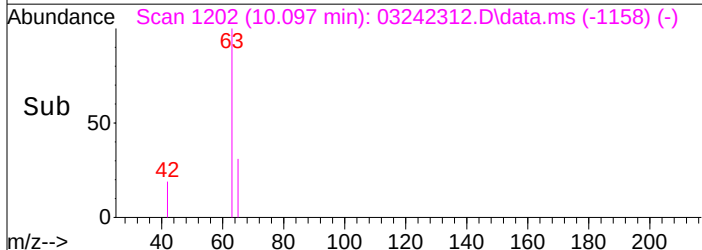
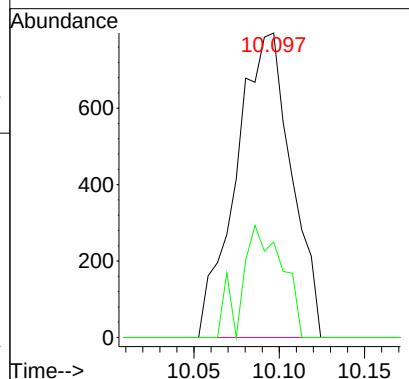
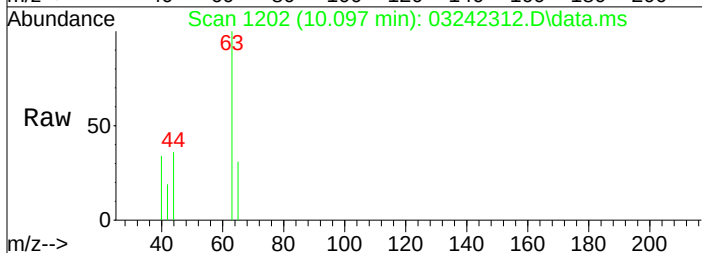
#21
 Trichlorotrifluoroethane
 Concen: 0.34 ng
 RT: 9.00 min Scan# 1002
 Delta R.T. -0.005 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:16

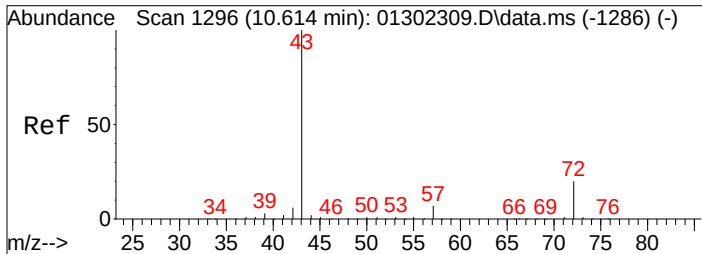
Tgt Ion	Ratio	Lower	Upper
151	100		
101	130.8	101.5	141.5



#24
 1,1-Dichloroethane
 Concen: 0.05 ng
 RT: 10.10 min Scan# 1202
 Delta R.T. -0.011 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:16

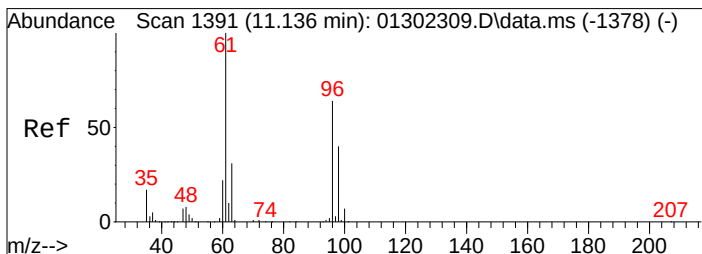
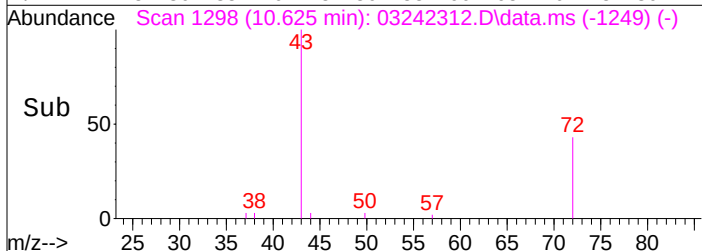
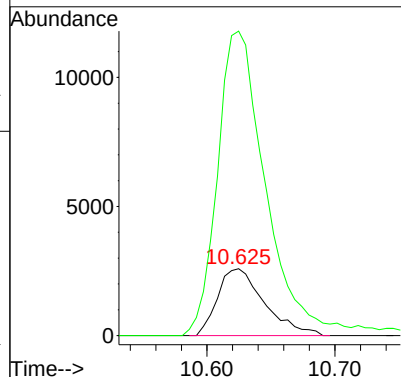
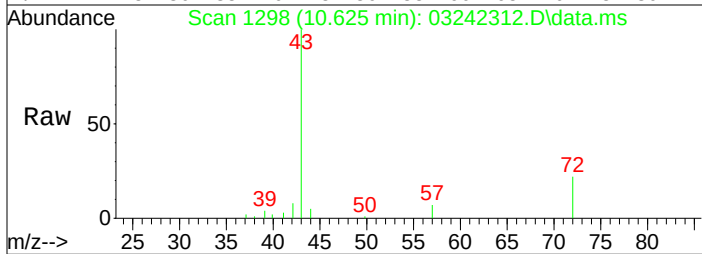
Tgt Ion	Ratio	Lower	Upper
63	100		
65	27.2	11.7	51.7





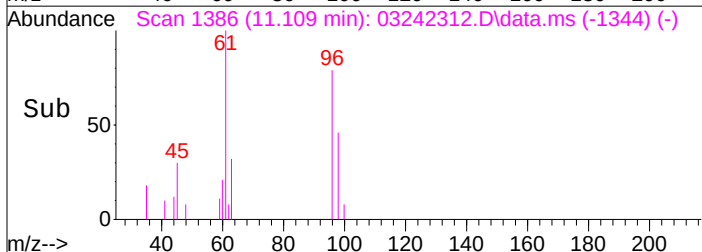
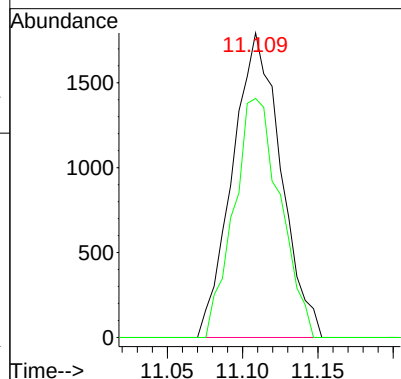
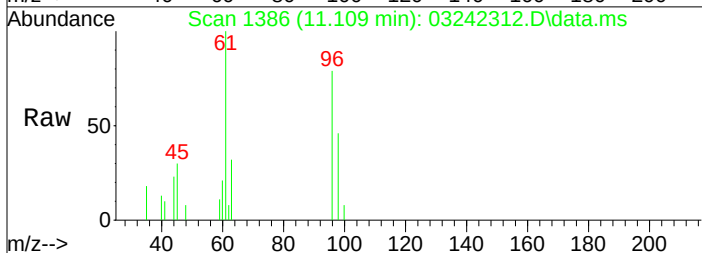
#27
2-Butanone (MEK)
Concen: 0.56 ng
RT: 10.62 min Scan# 1298
Delta R.T. 0.017 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:16

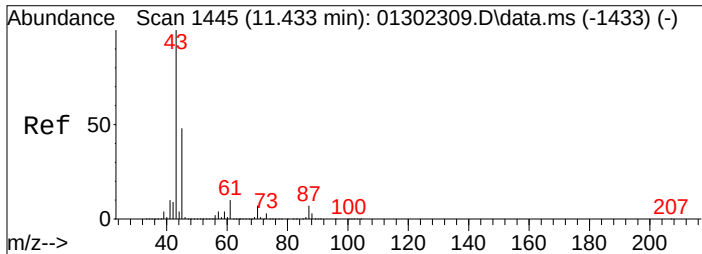
Tgt Ion: 72 Resp: 6595
Ion Ratio Lower Upper
72 100
43 480.3 449.4 489.4



#28
cis-1,2-Dichloroethene
Concen: 0.15 ng
RT: 11.11 min Scan# 1386
Delta R.T. -0.016 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:16

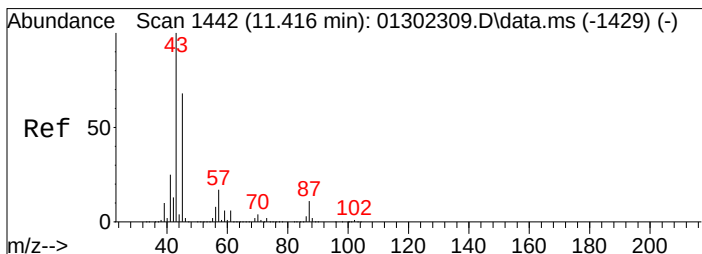
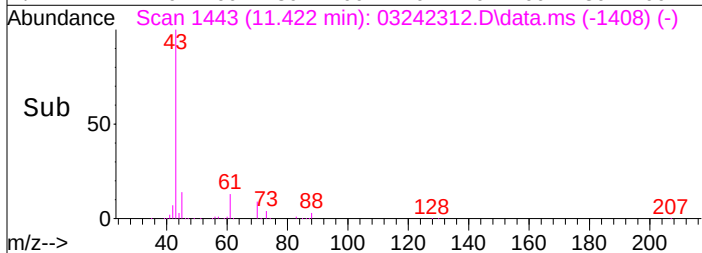
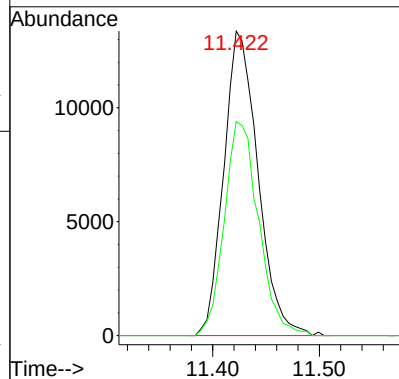
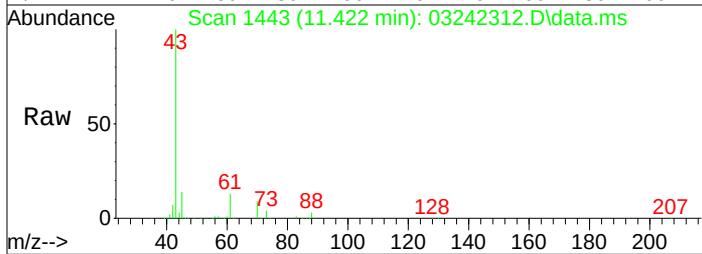
Tgt Ion: 61 Resp: 4001
Ion Ratio Lower Upper
61 100
96 75.2 49.9 89.9





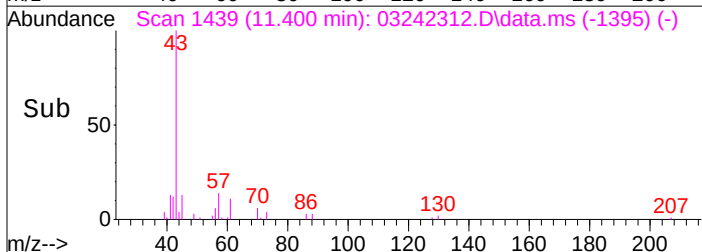
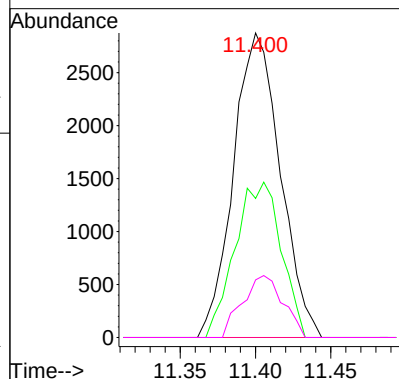
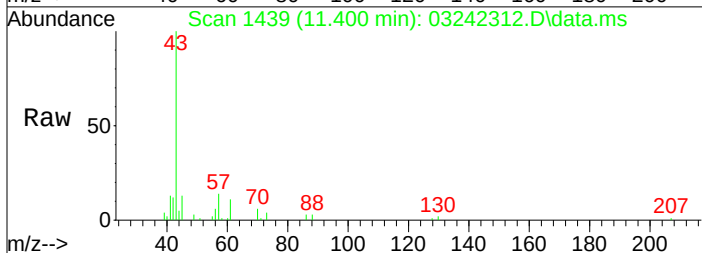
#30
Ethyl Acetate
Concen: 3.84 ng
RT: 11.42 min Scan# 1443
Delta R.T. -0.005 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:16

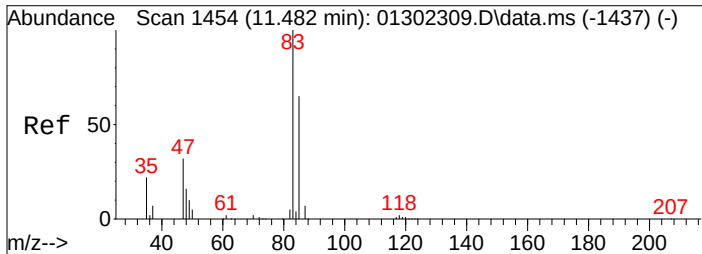
Tgt Ion: 61 Resp: 29848
Ion Ratio Lower Upper
61 100
70 70.4 52.8 92.8



#31
n-Hexane
Concen: 0.16 ng
RT: 11.40 min Scan# 1439
Delta R.T. -0.011 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:16

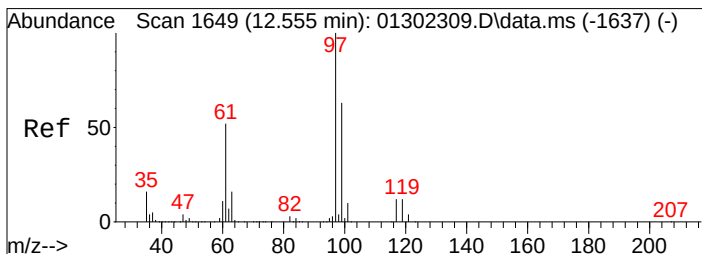
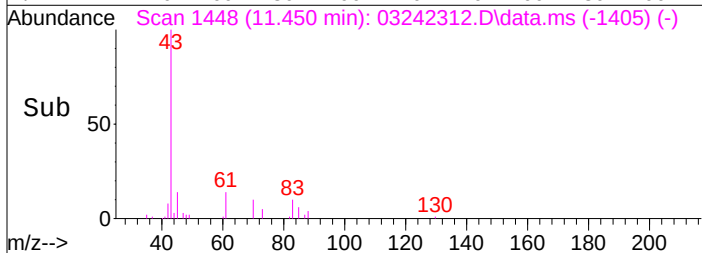
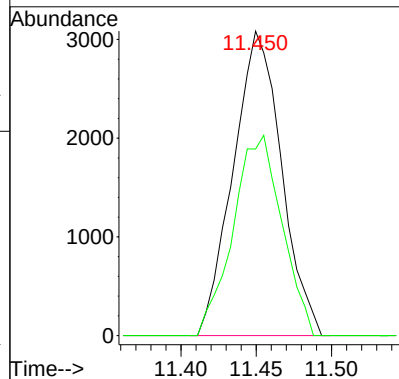
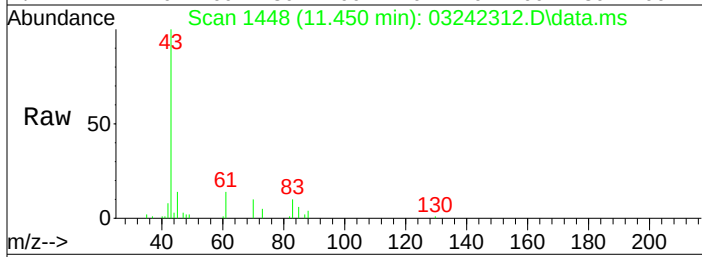
Tgt Ion: 57 Resp: 6215
Ion Ratio Lower Upper
57 100
56 50.2 39.9 59.9
86 17.6 12.3 18.5





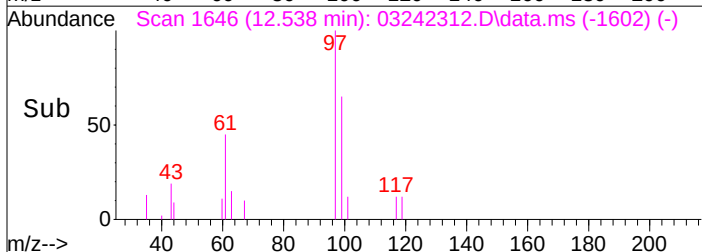
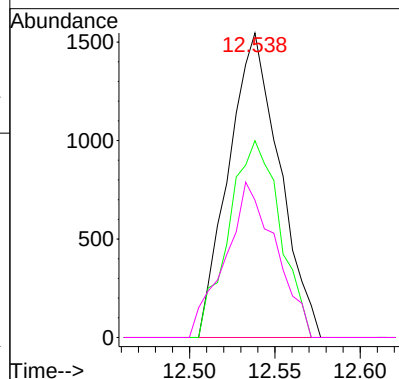
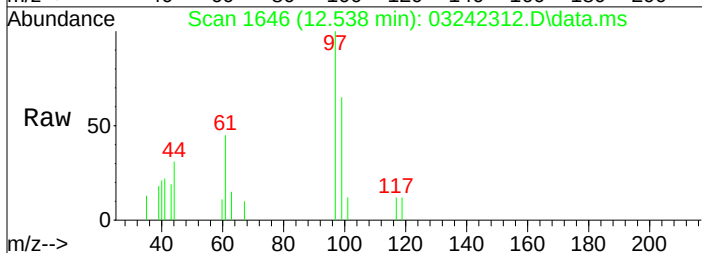
#32
Chloroform
Concen: 0.23 ng
RT: 11.45 min Scan# 1448
Delta R.T. -0.016 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:16

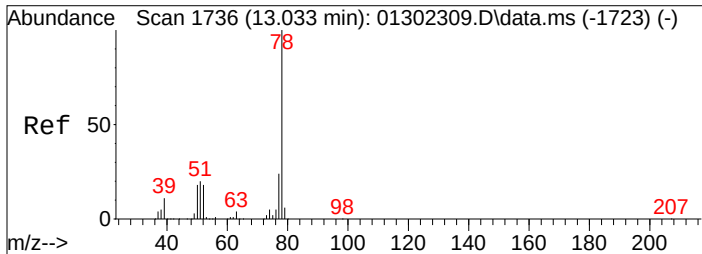
Tgt Ion: 83 Resp: 6882
Ion Ratio Lower Upper
83 100
85 66.4 45.5 85.5



#38
1,1,1-Trichloroethane
Concen: 0.11 ng
RT: 12.54 min Scan# 1646
Delta R.T. -0.011 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:16

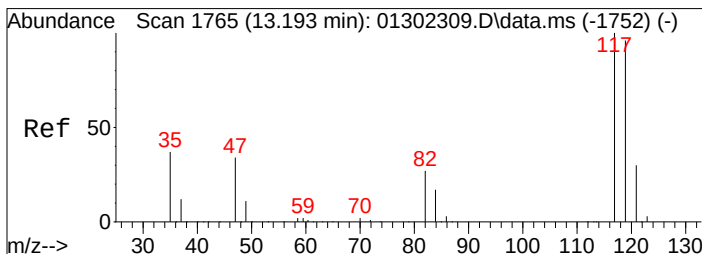
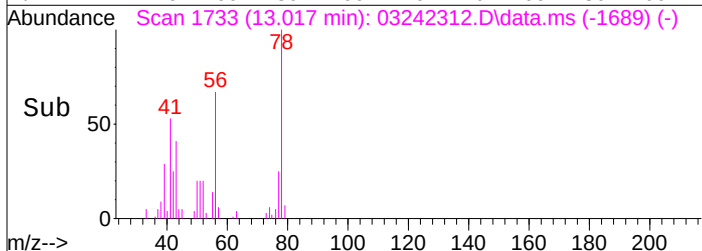
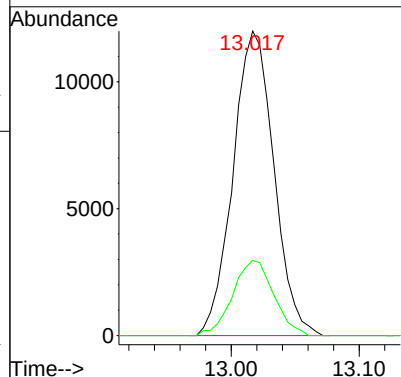
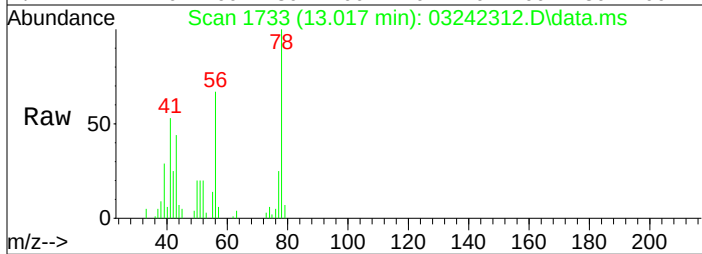
Tgt Ion: 97 Resp: 3192
Ion Ratio Lower Upper
97 100
99 65.3 44.0 84.0
61 51.0 26.8 66.8





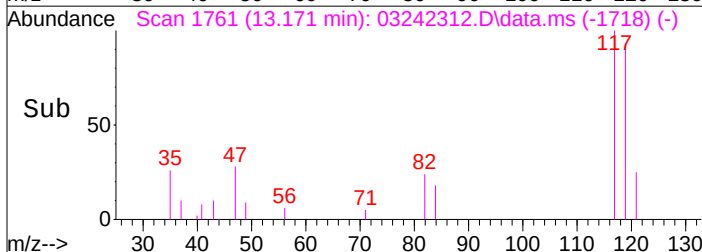
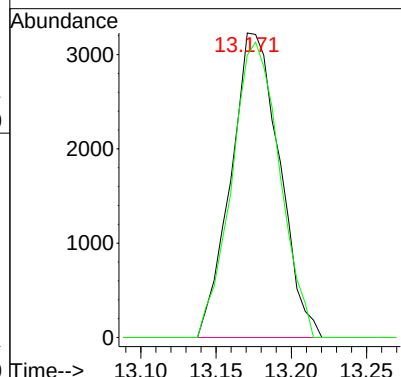
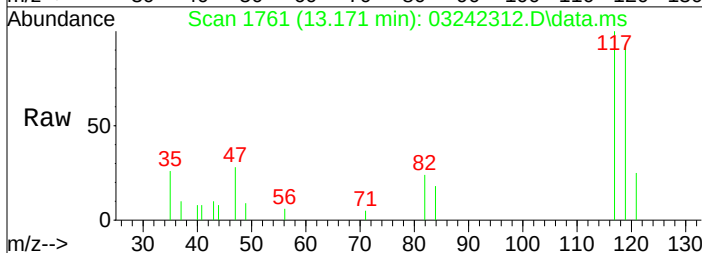
#41
Benzene
Concen: 0.37 ng
RT: 13.02 min Scan# 1733
Delta R.T. -0.011 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:16

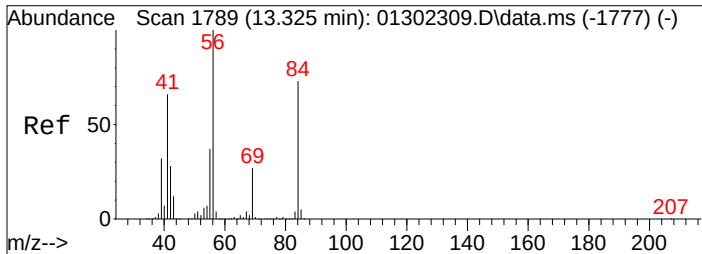
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	26644		
77	24.7	3.3	43.3	



#42
Carbon Tetrachloride
Concen: 0.31 ng
RT: 13.17 min Scan# 1761
Delta R.T. -0.016 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:16

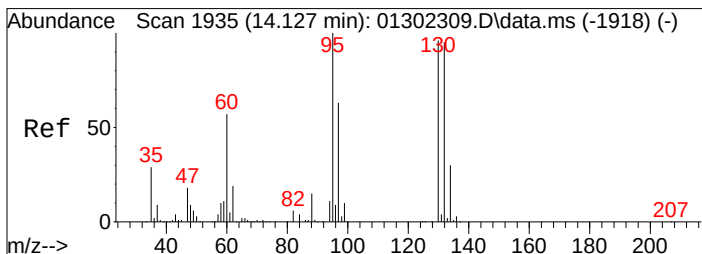
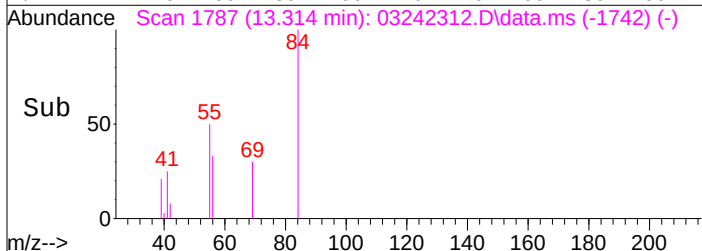
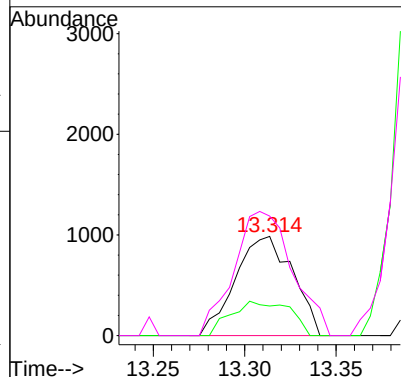
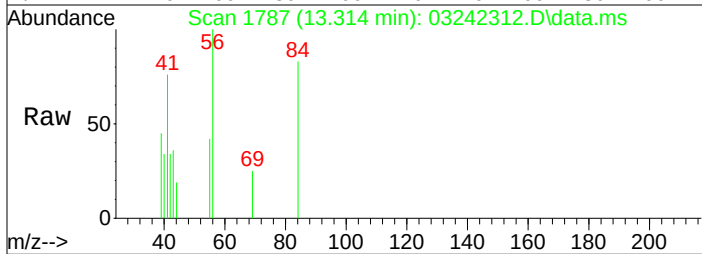
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	7234		
119	96.0	76.2	116.2	





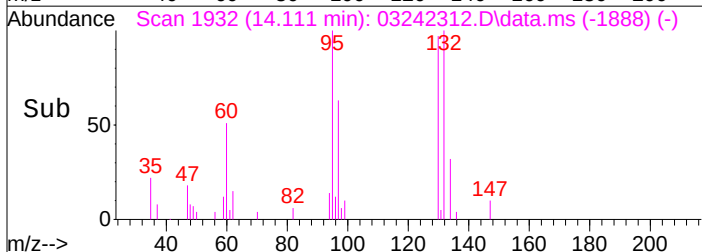
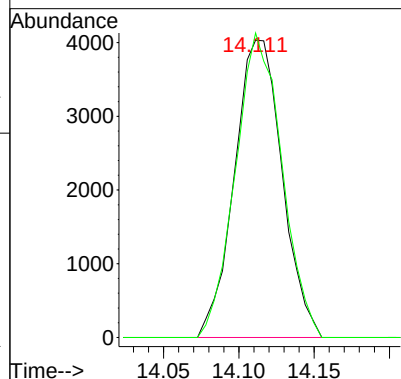
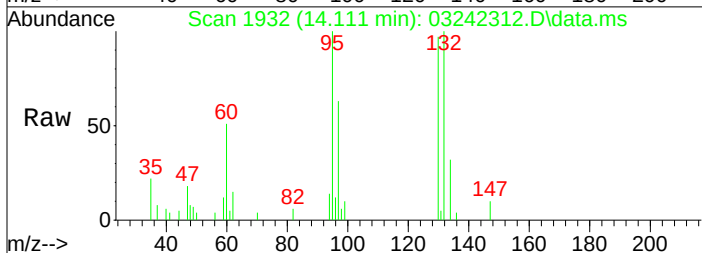
#43
Cyclohexane
Concen: 0.07 ng
RT: 13.31 min Scan# 1787
Delta R.T. -0.005 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:16

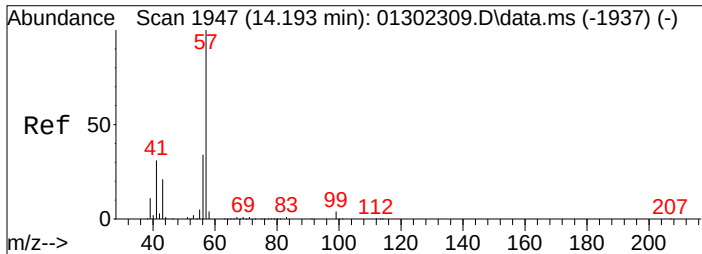
Tgt Ion:	84	Resp:	2151
Ion Ratio		Lower	Upper
84	100		
69	35.3	16.2	56.2
56	128.4	115.2	155.2



#47
Trichloroethene
Concen: 0.45 ng
RT: 14.11 min Scan# 1932
Delta R.T. -0.011 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:16

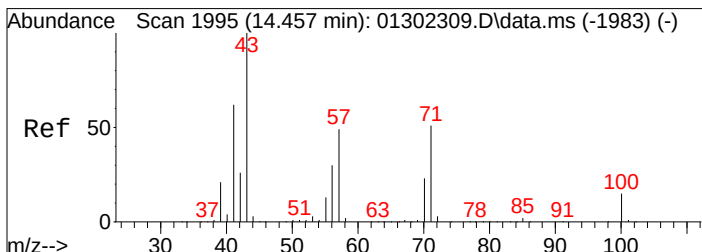
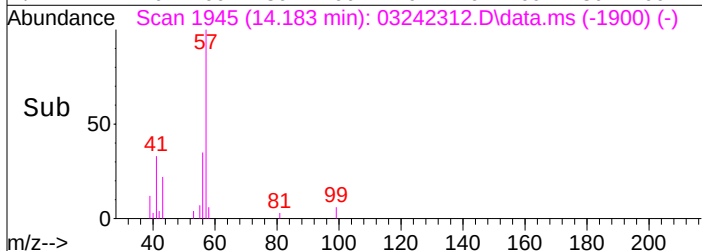
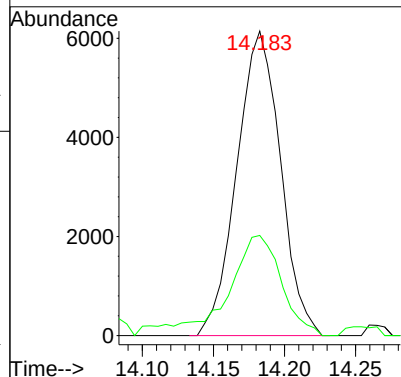
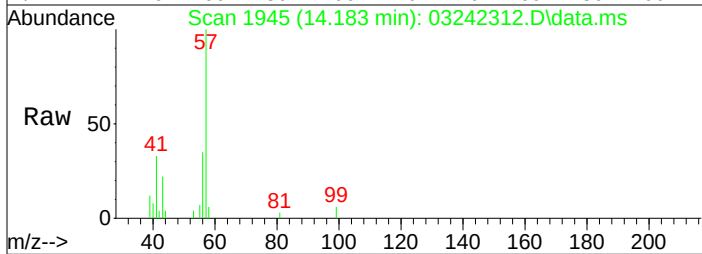
Tgt Ion:	130	Resp:	8894
Ion Ratio		Lower	Upper
130	100		
132	99.5	78.7	118.7





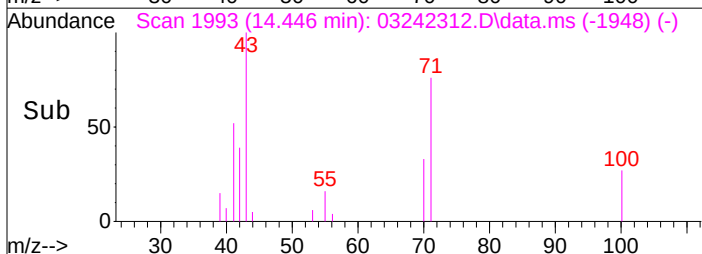
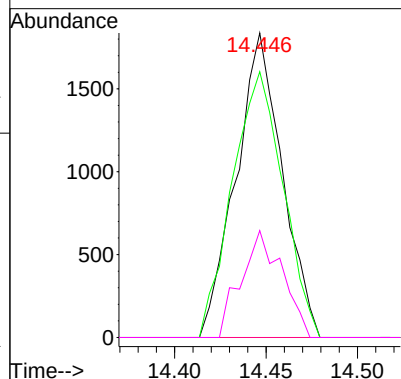
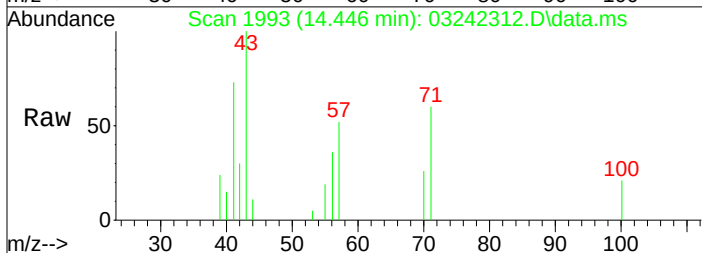
#49
 2,2,4-Trimethylpentane (Isooctane)
 Concen: 0.13 ng
 RT: 14.18 min Scan# 1945
 Delta R.T. -0.005 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:16

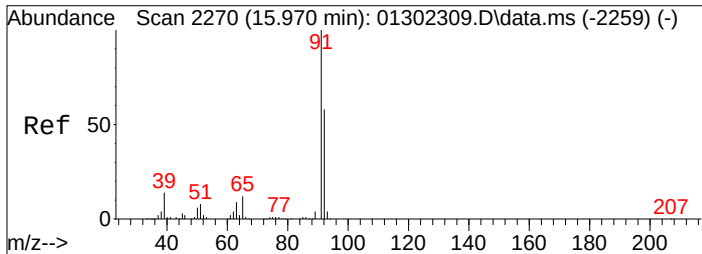
Tgt Ion:	57	Resp:	13116
Ion Ratio		Lower	Upper
57	100		
41	41.2	5.8	45.8



#51
 n-Heptane
 Concen: 0.15 ng
 RT: 14.45 min Scan# 1993
 Delta R.T. -0.005 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:16

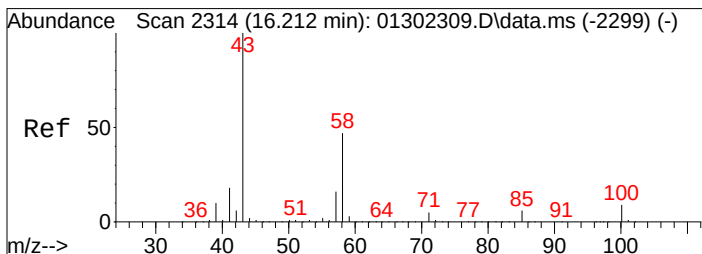
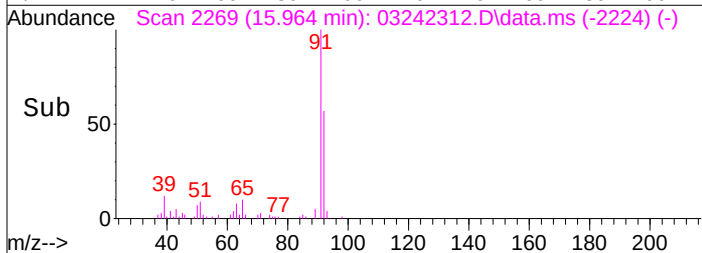
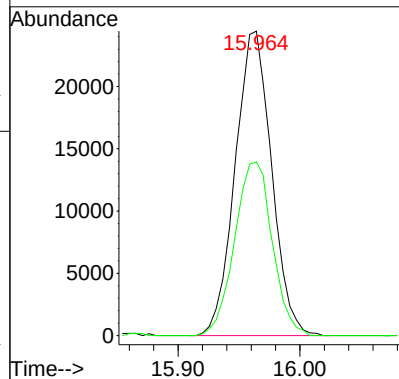
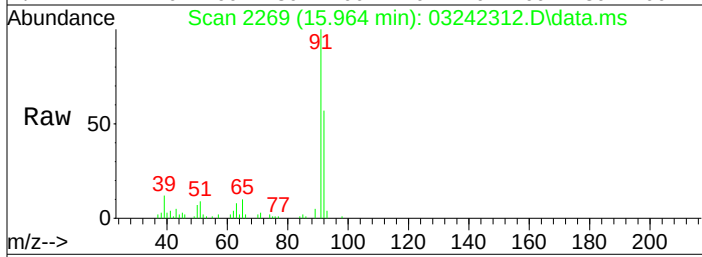
Tgt Ion:	71	Resp:	3235
Ion Ratio		Lower	Upper
71	100		
57	95.5	81.4	121.4
100	31.1	11.8	51.8





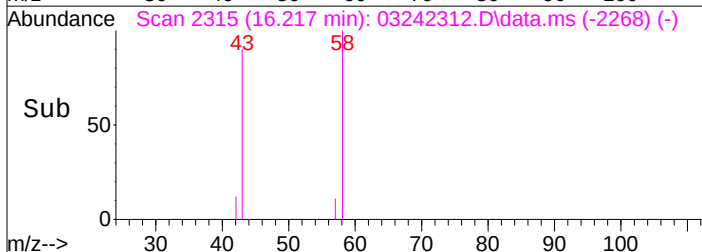
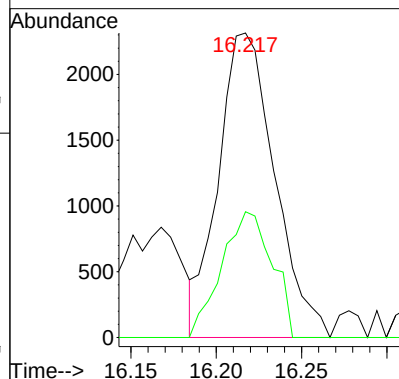
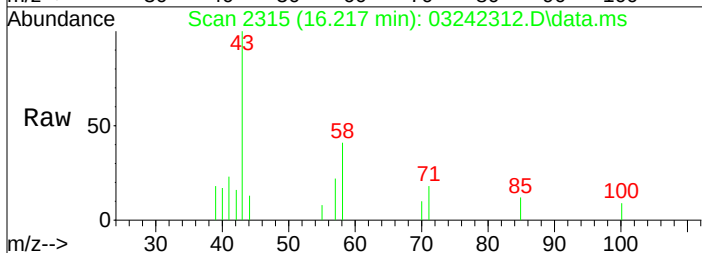
#58
Toluene
Concen: 0.59 ng
RT: 15.96 min Scan# 2269
Delta R.T. -0.005 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:16

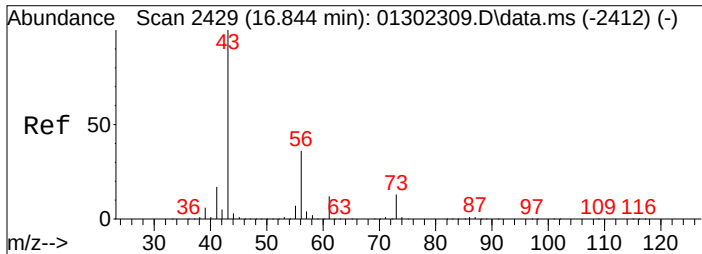
Tgt Ion: 91 Resp: 50808
Ion Ratio Lower Upper
91 100
92 58.9 39.8 79.8



#59
2-Hexanone
Concen: 0.12 ng
RT: 16.22 min Scan# 2315
Delta R.T. 0.006 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:16

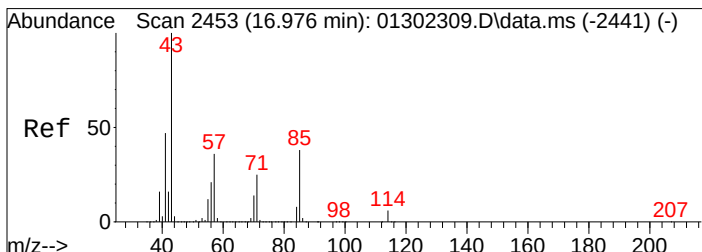
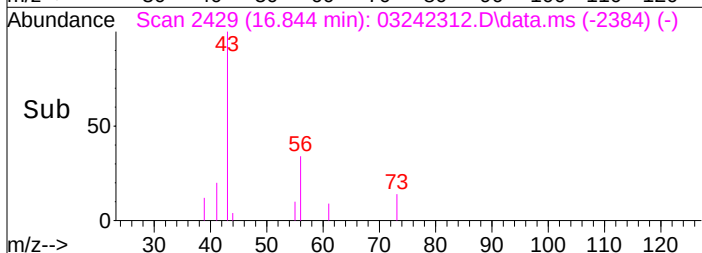
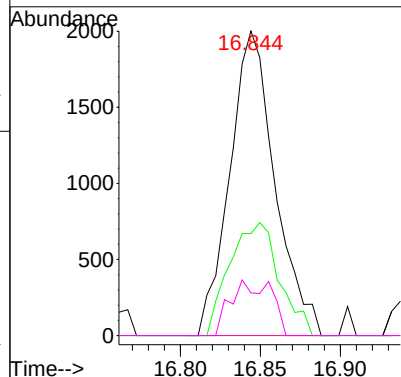
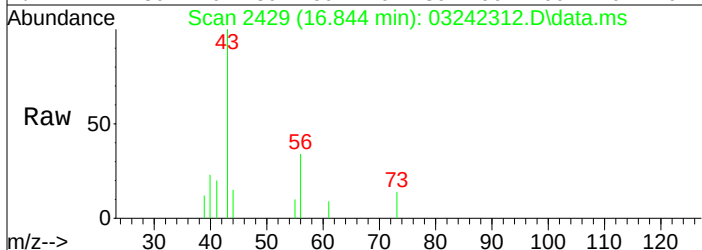
Tgt Ion: 43 Resp: 5313
Ion Ratio Lower Upper
43 100
58 37.0 32.3 72.3





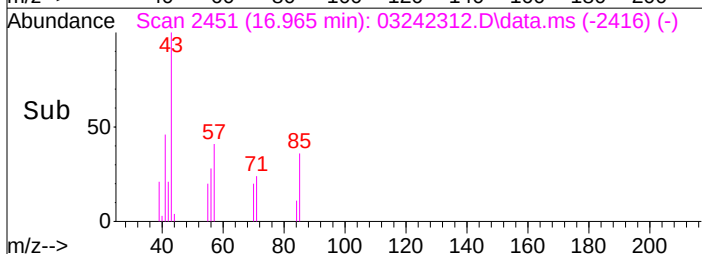
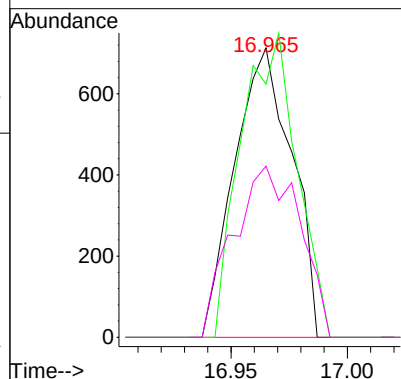
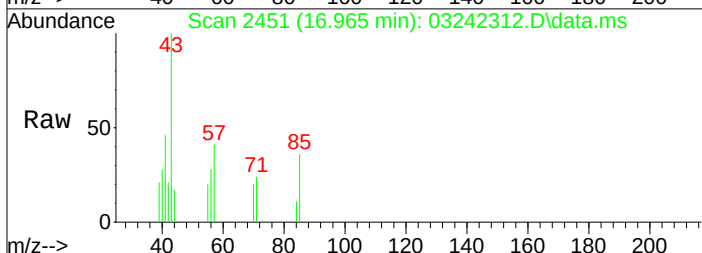
#62
 n-Butyl Acetate
 Concen: 0.08 ng
 RT: 16.84 min Scan# 2429
 Delta R.T. 0.000 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:16

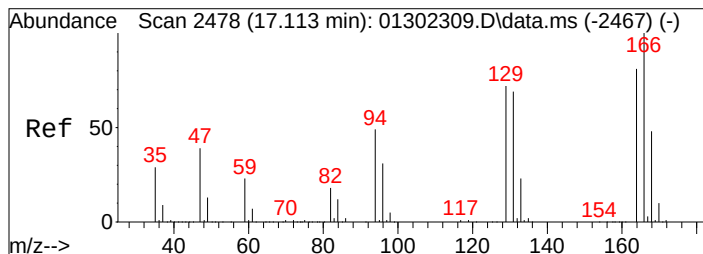
Tgt Ion:	43	Resp:	3937
Ion Ratio		Lower	Upper
43	100		
56	40.8	21.0	61.0
73	16.3	0.0	34.3



#63
 n-Octane
 Concen: 0.06 ng
 RT: 16.97 min Scan# 2451
 Delta R.T. -0.005 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:16

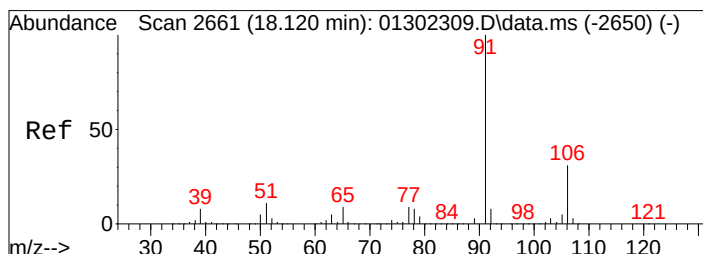
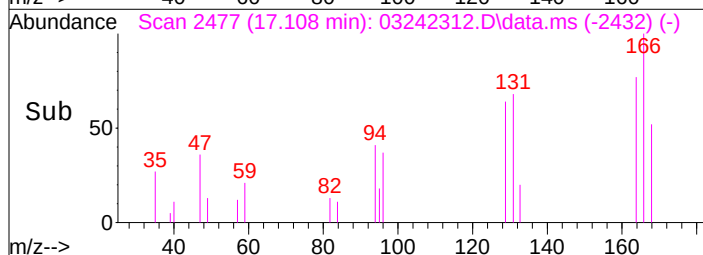
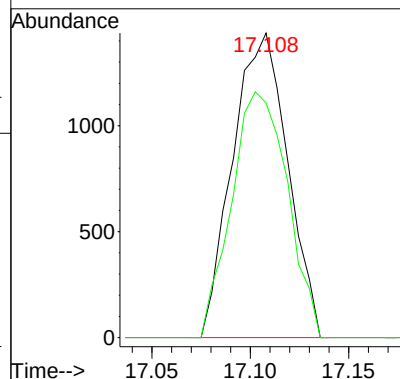
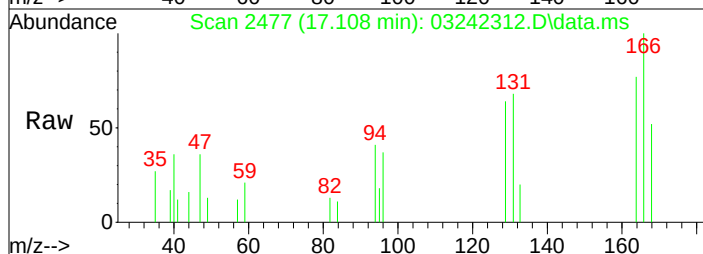
Tgt Ion:	57	Resp:	1220
Ion Ratio		Lower	Upper
57	100		
85	103.0	81.4	122.2
71	69.7	51.7	77.5





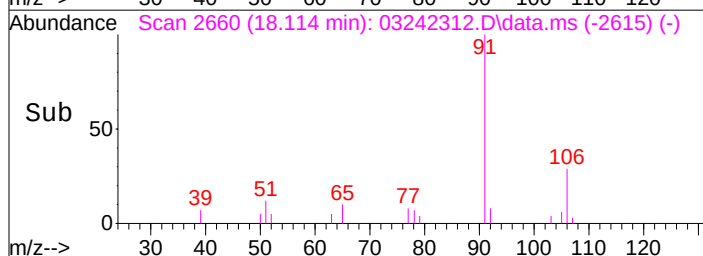
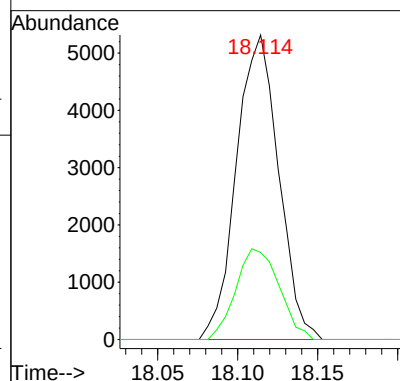
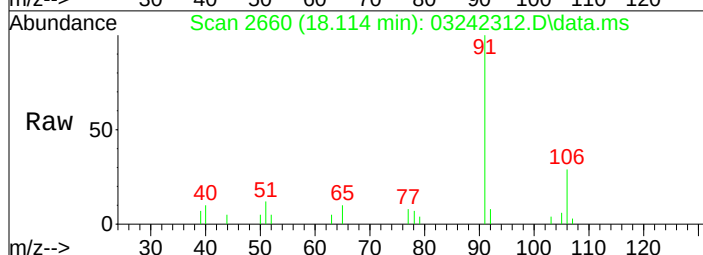
#64
Tetrachloroethene
Concen: 0.13 ng
RT: 17.11 min Scan# 2477
Delta R.T. -0.005 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:16

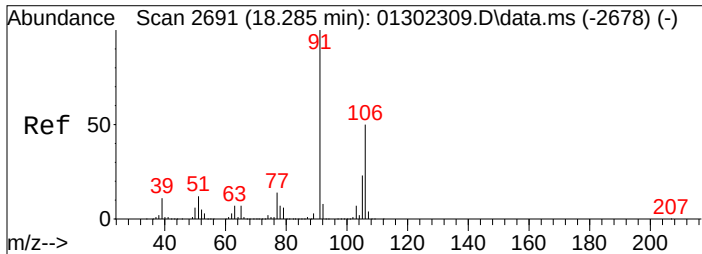
Tgt Ion: 166 Resp: 2790
Ion Ratio Lower Upper
166 100
164 82.0 58.7 98.7



#66
Ethylbenzene
Concen: 0.10 ng
RT: 18.11 min Scan# 2660
Delta R.T. -0.005 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:16

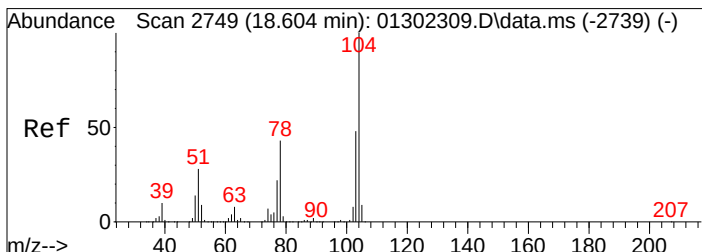
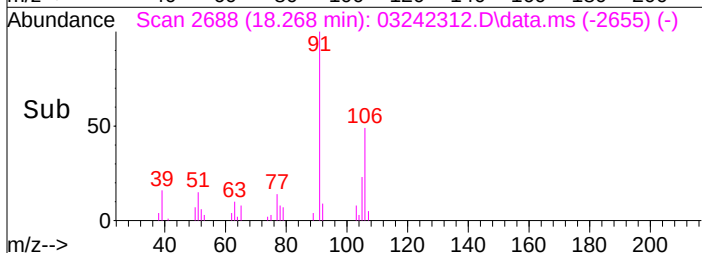
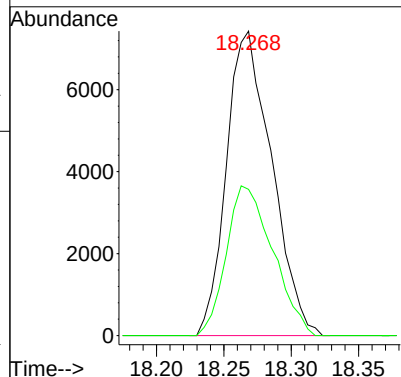
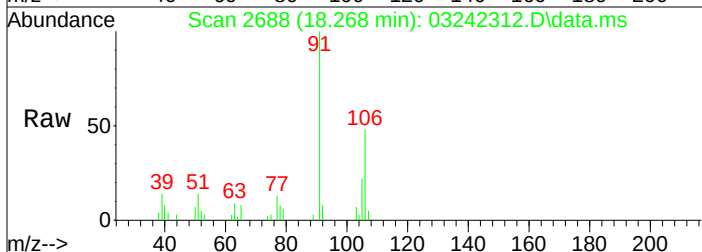
Tgt Ion: 91 Resp: 9751
Ion Ratio Lower Upper
91 100
106 30.6 11.5 51.5





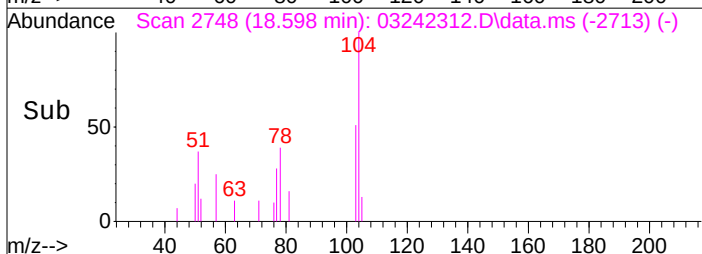
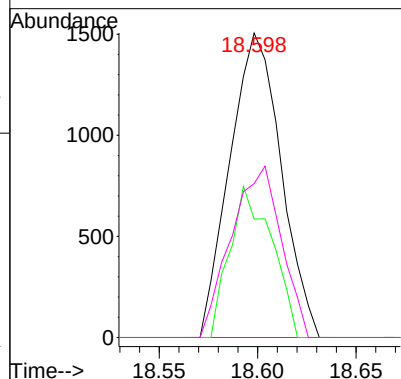
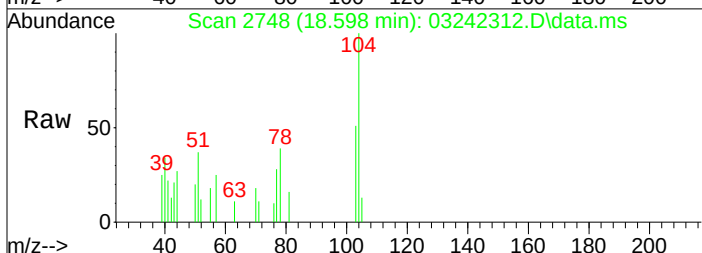
#67
 m- & p-Xylenes
 Concen: 0.22 ng
 RT: 18.27 min Scan# 2688
 Delta R.T. -0.016 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:16

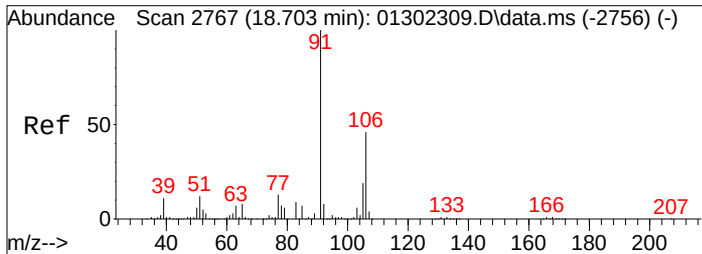
Tgt Ion:	91	Resp:	17351
Ion Ratio		Lower	Upper
91	100		
106	50.4	29.2	69.2



#69
 Styrene
 Concen: 0.05 ng
 RT: 18.60 min Scan# 2748
 Delta R.T. -0.005 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:16

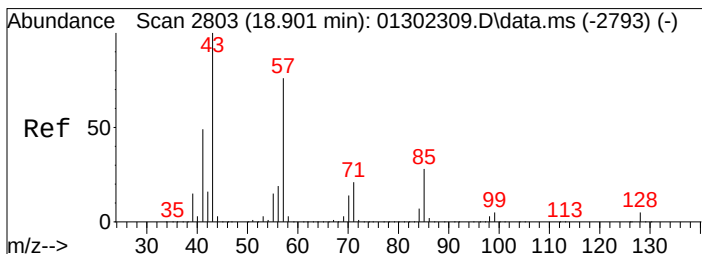
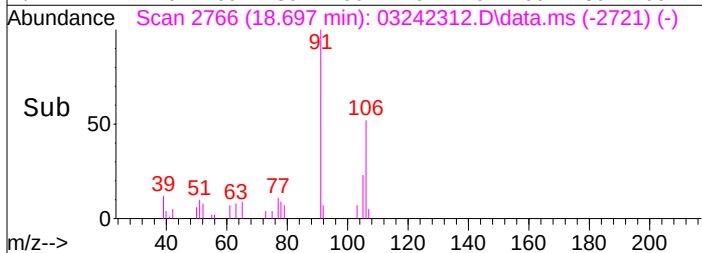
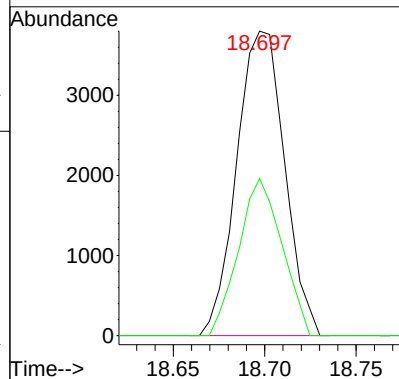
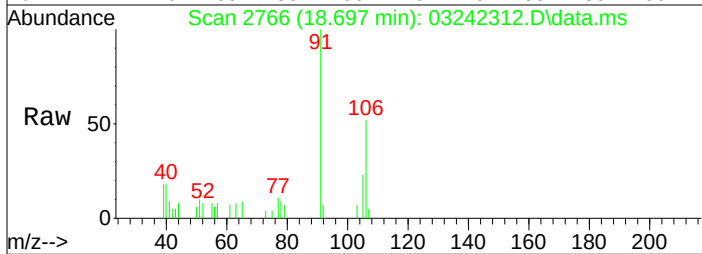
Tgt Ion:	104	Resp:	2720
Ion Ratio		Lower	Upper
104	100		
78	40.8	20.0	60.0
103	55.0	26.9	66.9





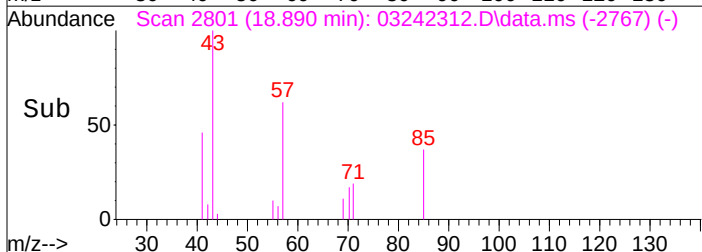
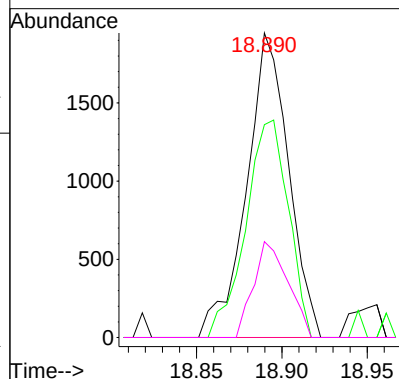
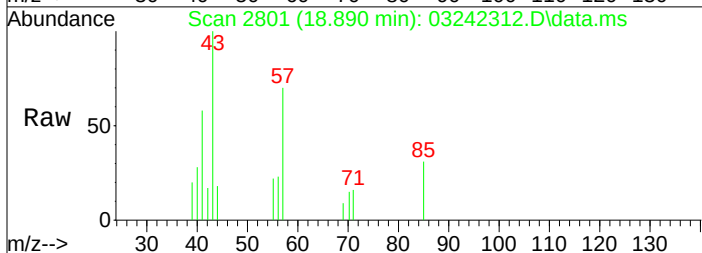
#70
o-Xylene
Concen: 0.09 ng
RT: 18.70 min Scan# 2766
Delta R.T. -0.005 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:16

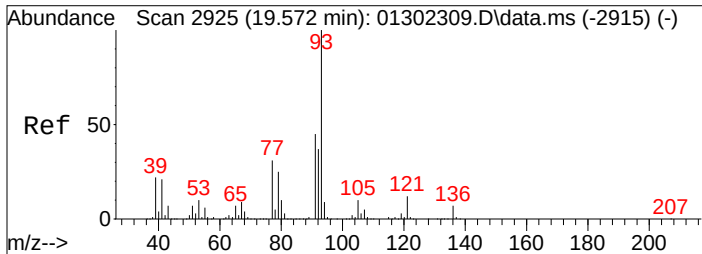
Tgt Ion: 91 Resp: 6928
Ion Ratio Lower Upper
91 100
106 46.7 27.3 67.3



#71
n-Nonane
Concen: 0.06 ng
RT: 18.89 min Scan# 2801
Delta R.T. -0.011 min
Lab File: 03242312.D
Acq: 24 Mar 2023 12:16

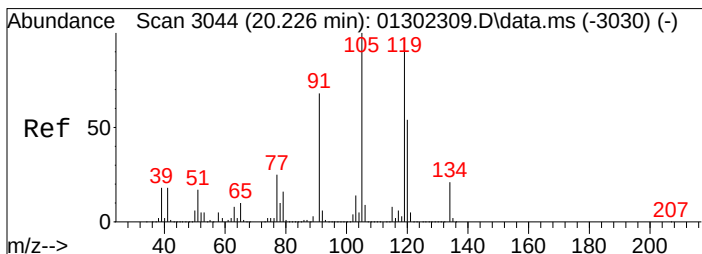
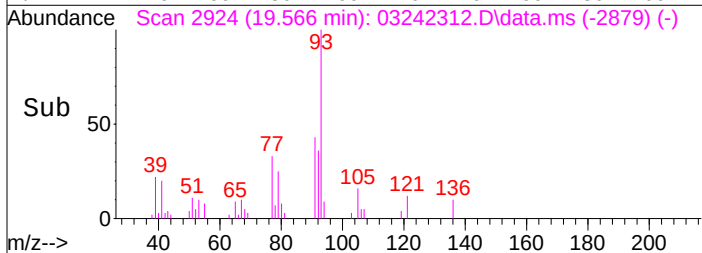
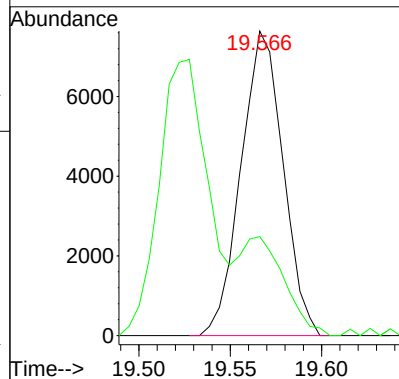
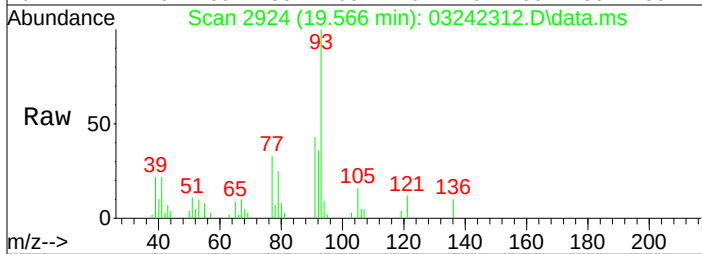
Tgt Ion: 43 Resp: 3340
Ion Ratio Lower Upper
43 100
57 72.2 64.6 104.6
85 25.8 9.6 49.6





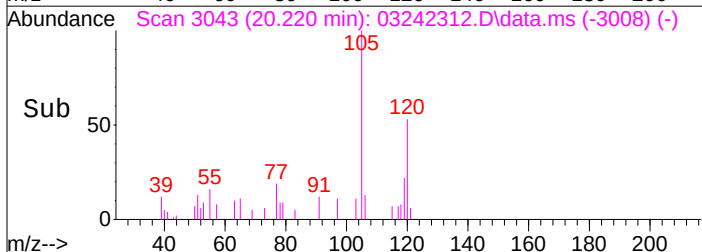
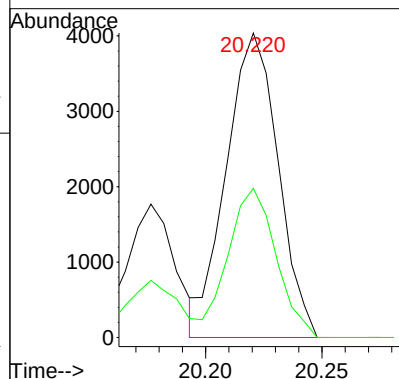
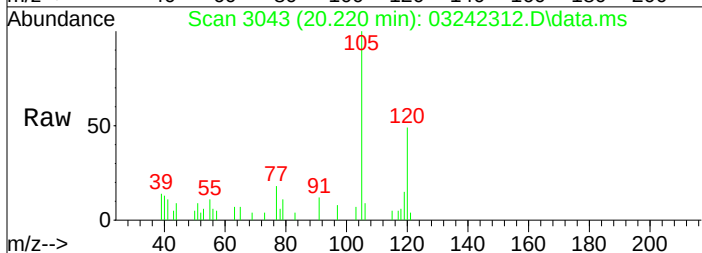
#75
 alpha-Pinene
 Concen: 0.50 ng
 RT: 19.57 min Scan# 2924
 Delta R.T. -0.005 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:16

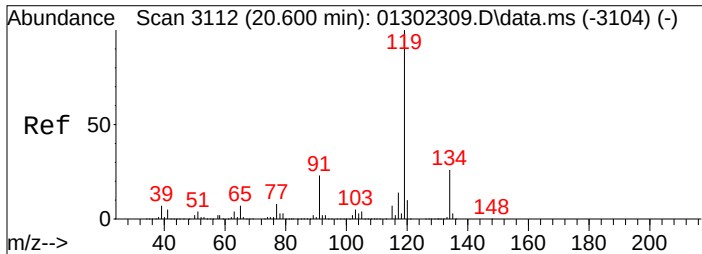
Tgt Ion: 93 Resp: 12229
 Ion Ratio Lower Upper
 93 100
 77 34.6 11.7 51.7



#82
 1,2,4-Trimethylbenzene
 Concen: 0.08 ng
 RT: 20.22 min Scan# 3043
 Delta R.T. -0.005 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:16

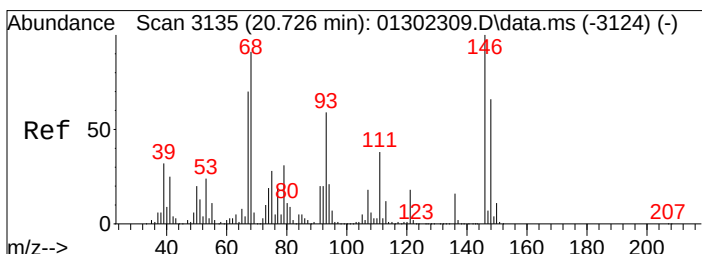
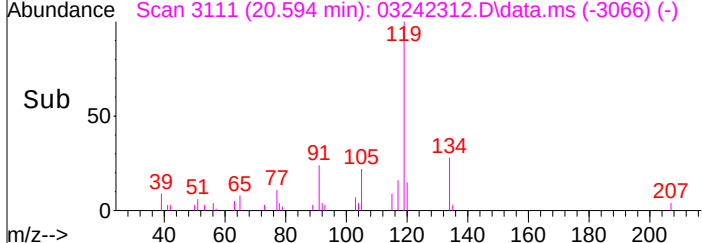
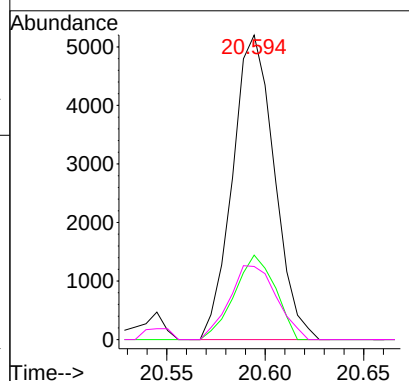
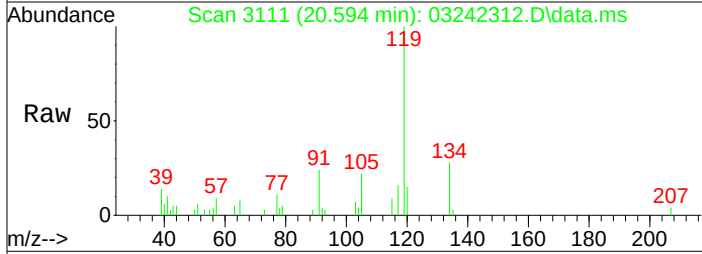
Tgt Ion: 105 Resp: 6255
 Ion Ratio Lower Upper
 105 100
 120 44.9 37.2 77.2





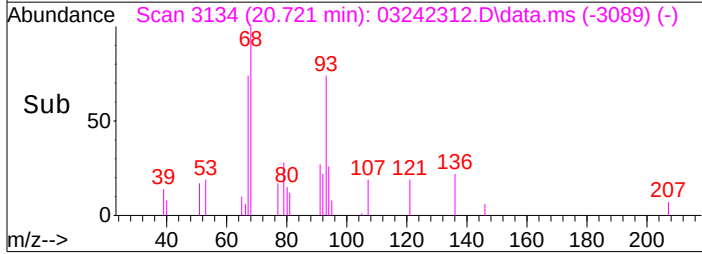
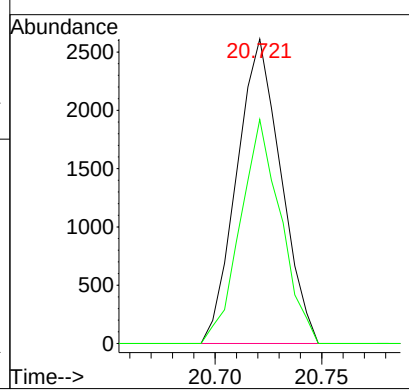
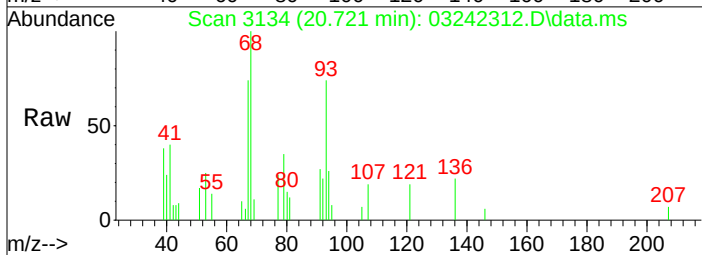
#88
 4-Isopropyltoluene (p-Cymene)
 Concen: 0.07 ng
 RT: 20.59 min Scan# 3111
 Delta R.T. -0.005 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:16

Tgt Ion: 119	Resp: 7673
Ion Ratio	Lower Upper
119 100	
134 27.0	7.5 47.5
91 27.5	3.7 43.7



#91
 d-Limonene
 Concen: 0.17 ng
 RT: 20.72 min Scan# 3134
 Delta R.T. -0.005 min
 Lab File: 03242312.D
 Acq: 24 Mar 2023 12:16

Tgt Ion: 68	Resp: 3771
Ion Ratio	Lower Upper
68 100	
93 67.4	49.6 89.6



Data File : I:\MS16\DATA\2023_03\24\03242312.D
 Acq On : 24 Mar 2023 12:16
 Sample : P2301250-029 (1000mL)
 Misc : S35-01312301

Vial: 9
 Operator: WA
 Inst : GCMS-16

3/26/23

Quant Time: Mar 26 20:28:01 2023
 Quant Method : I:\MS16\METHODS\C16122022.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Dec 21 05:02:49 2022
 Response via : Initial Calibration
 DataAcq Meth:T015B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.28	130	222697	12.500	ng	-0.02
16) 1,4-Difluorobenzene (C_2)	13.41	114	1026833	12.500	ng	-0.01
19) Chlorobenzene-d5 (C_3)	17.72	54	225270	12.500	ng	0.00

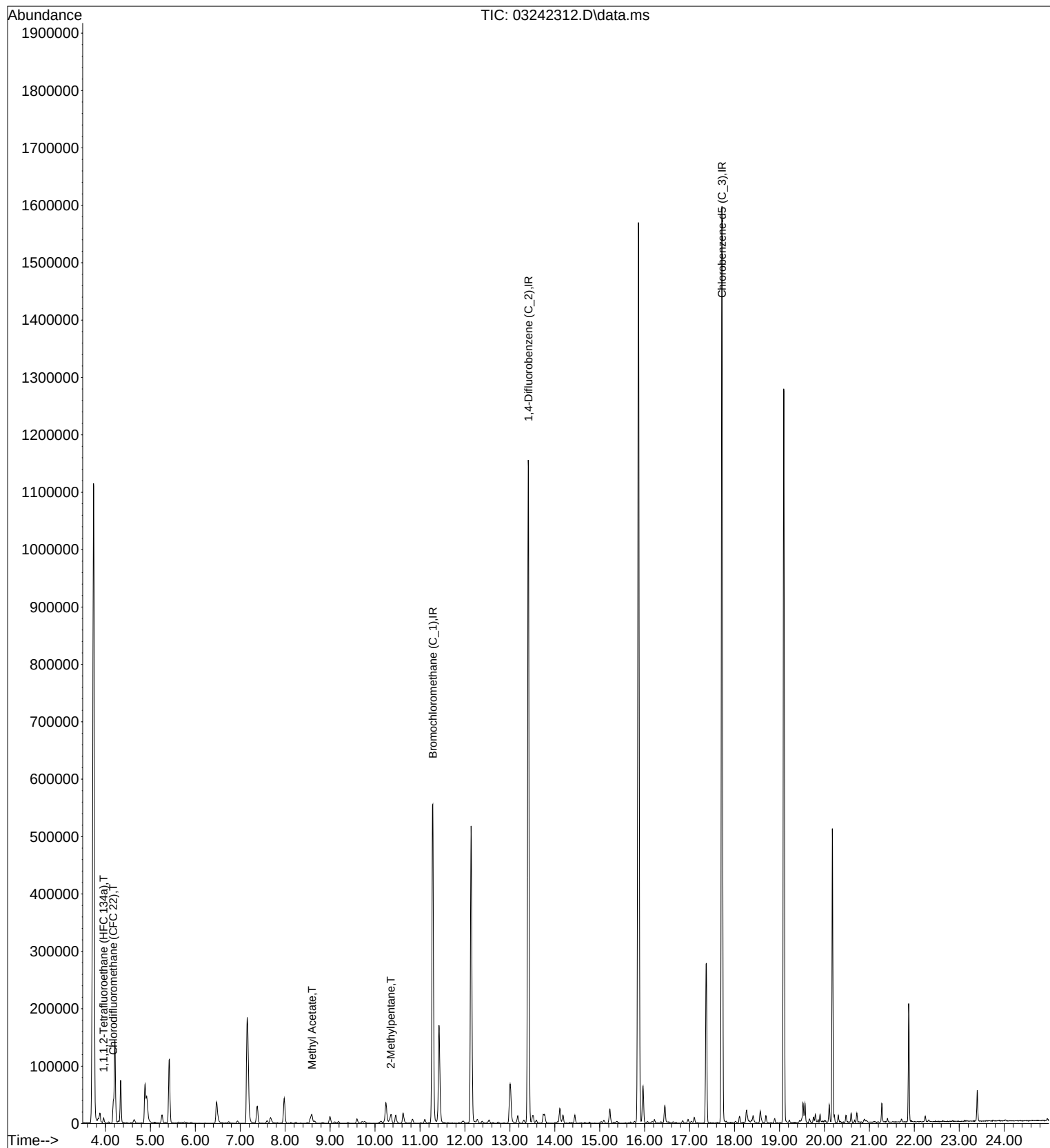
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.87	85	697	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.96	83	5546	0.314	ng	# 77
4) 1,1-Difluoroethane	4.07	65	828	N.D.		
5) Chlorodifluoromethane ...	4.17	67	4311	0.783	ng	85
6) 1-Chloro-1,1-Difluoroe...	4.64	65	2750	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	8.60	43	23206	0.421	ng	# 96
12) 2-Methylpentane	10.35	71	3669	0.168	ng	# 16
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	13.18	84	1320	N.D.		
17) 2,3-Dimethylpentane	13.59	56	2447	N.D.		
18) Dibromomethane	13.82	174	197	N.D.		
20) Methyl Cyclohexane	15.10	55	1825	N.D.		
21) 1,3-Dichloropropane	15.95	76	111	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	0.00	91	0	N.D.		
24) 1,2,3-Trichloropropane	18.70	75	50	N.D.		
25) Bromobenzene	19.22	77	284	N.D.		
26) 2-Chlorotoluene	19.67	91	2646	N.D.		
27) 4-Chlorotoluene	19.67	91	2646	N.D.		
28) Indane	20.76	117	604	N.D.		
29) Indene	20.76	115	59	N.D.		
30) 1,2,4,5-Tetramethylben...	21.61	119	62	N.D.		
31) 1,2,3,4-Tetramethylben...	21.66	119	316	N.D.		
32) 1,2,3,5-Tetramethylben...	21.99	119	65	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\24\03242312.D
Acq On : 24 Mar 2023 12:16
Sample : P2301250-029 (1000mL)
Misc : S35-01312301

Vial: 9
Operator: WA
Inst : GCMS-16

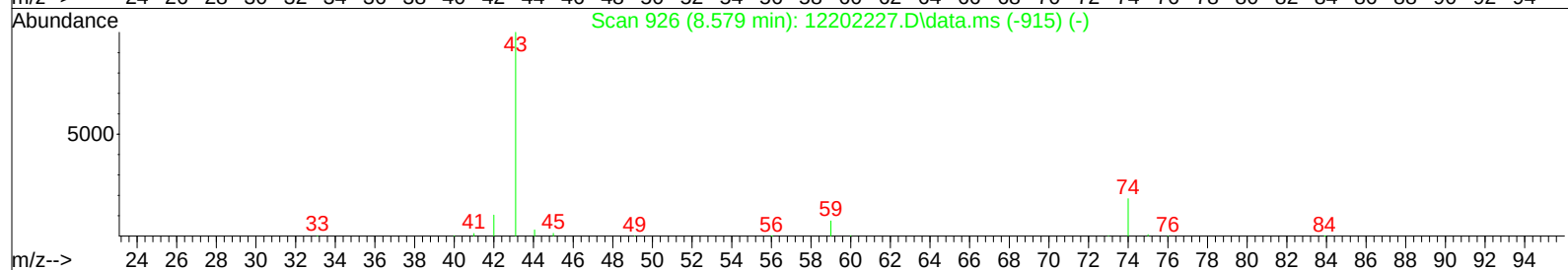
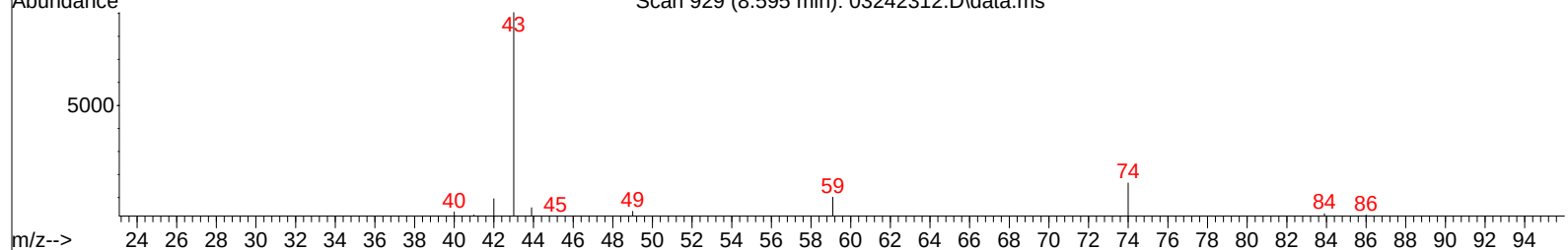
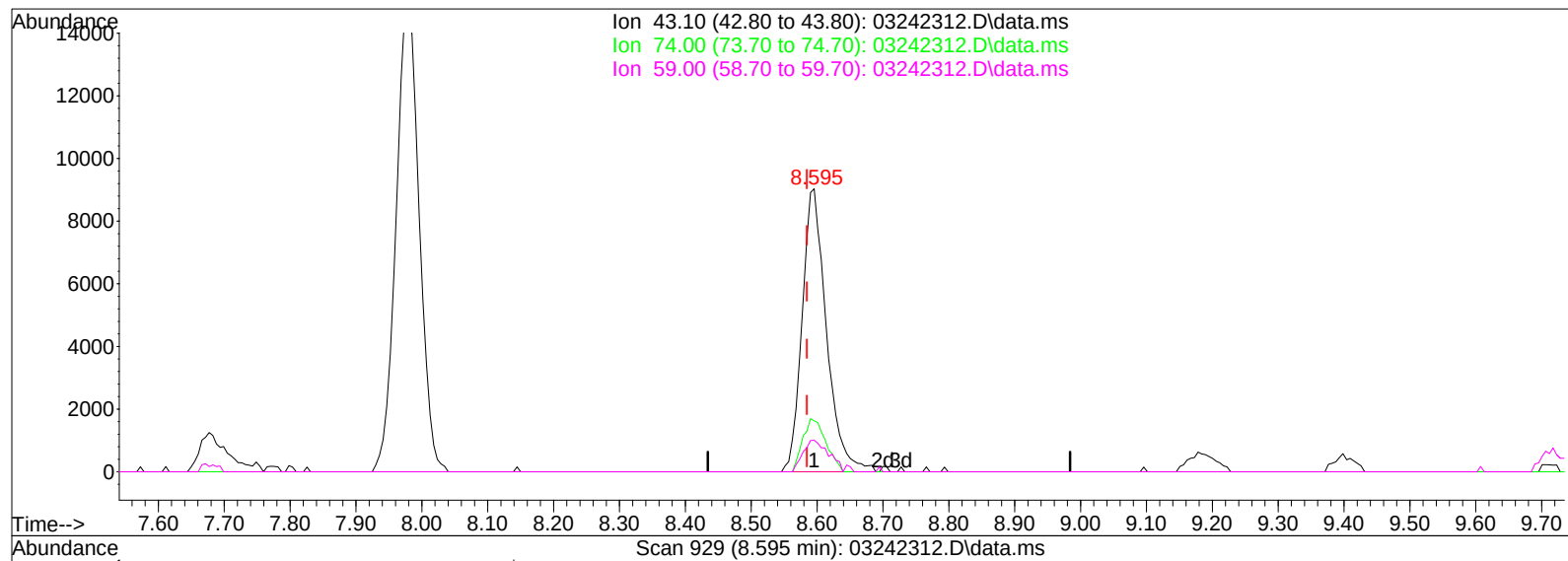
Quant Time: Mar 26 20:28:01 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



Data File : I:\MS16\DATA\2023_03\24\03242312.D
Acq On : 24 Mar 2023 12:16
Sample : P2301250-029 (1000mL)
Misc : S35-01312301

Vial: 9
Operator: WA
Inst : GCMS-16

Quant Time: Mar 26 20:27:27 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



TIC: 03242312.D\data.ms

(11) Methyl Acetate (T)

8.595min (+0.011) 0.42ng

response 23206

Ion	Exp%	Act%
43.10	100	100
74.00	18.10	17.79
59.00	7.20	11.69#
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG1-2

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-030

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: SC00533

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.43 Final Pressure (psig): 3.72

Container Dilution Factor: 1.50

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	0.80	0.13	0.48	0.16	0.026	
74-87-3	Chloromethane	0.33	0.32	0.13	0.16	0.15	0.062	
75-01-4	Vinyl Chloride	ND	0.17	0.086	ND	0.065	0.033	
74-83-9	Bromomethane	ND	0.32	0.11	ND	0.081	0.029	
75-00-3	Chloroethane	ND	0.32	0.099	ND	0.12	0.038	
67-64-1	Acetone	7.3	7.9	1.8	3.1	3.3	0.76	J
75-69-4	Trichlorofluoromethane	1.1	0.78	0.12	0.20	0.14	0.022	
75-35-4	1,1-Dichloroethene	ND	0.17	0.11	ND	0.042	0.028	
75-09-2	Methylene Chloride	0.41	0.80	0.23	0.12	0.23	0.065	J
76-13-1	Trichlorotrifluoroethane	0.55	0.81	0.11	0.071	0.11	0.015	J
75-15-0	Carbon Disulfide	ND	1.6	0.24	ND	0.52	0.077	
156-60-5	trans-1,2-Dichloroethene	ND	0.17	0.11	ND	0.042	0.028	
75-34-3	1,1-Dichloroethane	0.18	0.17	0.12	0.045	0.041	0.029	
1634-04-4	Methyl tert-Butyl Ether	ND	0.81	0.095	ND	0.22	0.026	
78-93-3	2-Butanone (MEK)	1.3	1.6	0.17	0.46	0.53	0.056	J
156-59-2	cis-1,2-Dichloroethene	0.18	0.17	0.11	0.047	0.042	0.028	
67-66-3	Chloroform	0.22	0.17	0.11	0.045	0.034	0.022	
107-06-2	1,2-Dichloroethane	ND	0.17	0.089	ND	0.041	0.022	
71-55-6	1,1,1-Trichloroethane	0.47	0.17	0.099	0.085	0.030	0.018	
71-43-2	Benzene	0.68	0.17	0.12	0.21	0.052	0.036	
56-23-5	Carbon Tetrachloride	0.44	0.17	0.11	0.070	0.026	0.018	
110-82-7	Cyclohexane	ND	1.6	0.23	ND	0.46	0.065	
78-87-5	1,2-Dichloropropane	ND	0.17	0.099	ND	0.036	0.021	
75-27-4	Bromodichloromethane	ND	0.17	0.12	ND	0.025	0.017	
79-01-6	Trichloroethene	1.3	0.17	0.11	0.25	0.031	0.020	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG1-2

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-030

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: SC00533

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.43 Final Pressure (psig): 3.72

Container Dilution Factor: 1.50

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.81	0.12	ND	0.18	0.027	
108-10-1	4-Methyl-2-pentanone	ND	1.7	0.11	ND	0.40	0.027	
10061-02-6	trans-1,3-Dichloropropene	ND	0.77	0.17	ND	0.17	0.036	
79-00-5	1,1,2-Trichloroethane	ND	0.17	0.081	ND	0.030	0.015	
108-88-3	Toluene	0.94	0.80	0.098	0.25	0.21	0.026	
591-78-6	2-Hexanone	0.26	1.7	0.099	0.064	0.40	0.024	J
124-48-1	Dibromochloromethane	ND	0.17	0.11	ND	0.019	0.012	
106-93-4	1,2-Dibromoethane	ND	0.17	0.093	ND	0.021	0.012	
127-18-4	Tetrachloroethene	0.32	0.17	0.10	0.047	0.024	0.015	
108-90-7	Chlorobenzene	ND	0.80	0.11	ND	0.17	0.023	
100-41-4	Ethylbenzene	0.14	0.80	0.11	0.032	0.18	0.026	J
179601-23-1	m,p-Xylenes	0.42	1.7	0.21	0.096	0.38	0.048	J
75-25-2	Bromoform	ND	0.81	0.17	ND	0.078	0.016	
100-42-5	Styrene	ND	0.80	0.13	ND	0.19	0.030	
95-47-6	o-Xylene	0.17	0.80	0.12	0.040	0.18	0.027	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.17	0.11	ND	0.024	0.016	
98-82-8	Cumene	ND	0.81	0.12	ND	0.16	0.024	
541-73-1	1,3-Dichlorobenzene	ND	0.80	0.12	ND	0.13	0.020	
106-46-7	1,4-Dichlorobenzene	ND	0.80	0.12	ND	0.13	0.020	
95-50-1	1,2-Dichlorobenzene	ND	0.81	0.12	ND	0.13	0.020	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.7	0.15	ND	0.17	0.016	
120-82-1	1,2,4-Trichlorobenzene	ND	1.7	0.20	ND	0.22	0.026	
79-20-9	Methyl Acetate	ND	0.75	0.36	ND	0.25	0.12	X
108-87-2	Methylcyclohexane	ND	0.75	0.39	ND	0.19	0.097	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS13\DATA\2023_03\27\03272317.D
 Acq On : 27 Mar 2023 13:31
 Sample : P2301250-030 (1000mL)
 Misc : S35-01202301

Vial: 4
 Operator: TZ
 Inst : MS13

TZ 3/28/23

Quant Time: Mar 28 11:10:54 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.31	130	240177	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	9.36	114	1067053	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.87	54	201732	12.500	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.07	65	410277	12.872	ng	-0.04
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.96%
57) Toluene-d8 (SS2)	12.48	98	1212375	11.686	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.52%
73) Bromofluorobenzene (SS3)	16.85	174	451188	11.874	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.96%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	3.47	85	69657	1.583	ng	99
4) Chloromethane	3.61	50	7069	0.223	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	3.72	135	1383	0.062	ng	96
6) Vinyl Chloride	3.81	62	132	N.D.		
7) 1,3-Butadiene	3.93	54	1046	N.D.		
8) Bromomethane	4.14	94	170	N.D.		
9) Chloroethane	4.28	64	248	N.D.		
10) Ethanol	4.38	45	60197	3.529	ng	97
11) Acetonitrile	4.54	41	3305	0.075	ng	# 33
12) Acrolein	4.64	56	1844	0.131	ng	93
13) Acetone	4.73	58	70746	4.860	ng	# 79
14) Trichlorofluoromethane	4.86	101	30150	0.761	ng	100
15) 2-Propanol (Isopropanol)	4.94	45	23458	0.399	ng	88
16) Acrylonitrile	5.06	53	390	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	5.43	59	2733	N.D.		
19) Methylene Chloride	5.45	84	5873	0.275	ng	93
20) 3-Chloro-1-propene (Al...	5.50	41	1445	N.D.		
21) Trichlorotrifluoroethane	5.68	151	7597	0.365	ng	90
22) Carbon Disulfide	5.71	76	10489	0.124	ng	100
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	6.40	63	4644	0.122	ng	96
25) Methyl tert-Butyl Ether	6.48	73	151	N.D.		
26) Vinyl Acetate	6.52	86	2037	0.517	ng	# 63
27) 2-Butanone (MEK)	6.75	72	11572	0.895	ng	94
28) cis-1,2-Dichloroethene	7.16	61	3782	0.123	ng	95
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	7.36	61	53851	6.337	ng	98
31) n-Hexane	7.38	57	8598	0.263	ng	# 90
32) Chloroform	7.43	83	5623	0.145	ng	97
34) Tetrahydrofuran (THF)	7.84	72	598	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.19	62	1095	N.D.		
38) 1,1,1-Trichloroethane	8.46	97	10935	0.310	ng	99
39) Isopropyl Acetate	9.37	61	30166	No Calib		
40) 1-Butanol	8.89	56	21783	No Calib	#	
41) Benzene	8.96	78	37529	0.452	ng	97
42) Carbon Tetrachloride	9.13	117	9170	0.294	ng	93
43) Cyclohexane	9.28	84	2089	0.069	ng	93
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	10.14	83	608	N.D.		
47) Trichloroethene	10.21	130	21547	0.886	ng	98
48) 1,4-Dioxane	10.22	88	257	N.D.		
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.	d	
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS13\DATA\2023_03\27\03272317.D
 Acq On : 27 Mar 2023 13:31
 Sample : P2301250-030 (1000mL)
 Misc : S35-01202301

Vial: 4
 Operator: TZ
 Inst : MS13

Quant Time: Mar 28 11:10:54 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

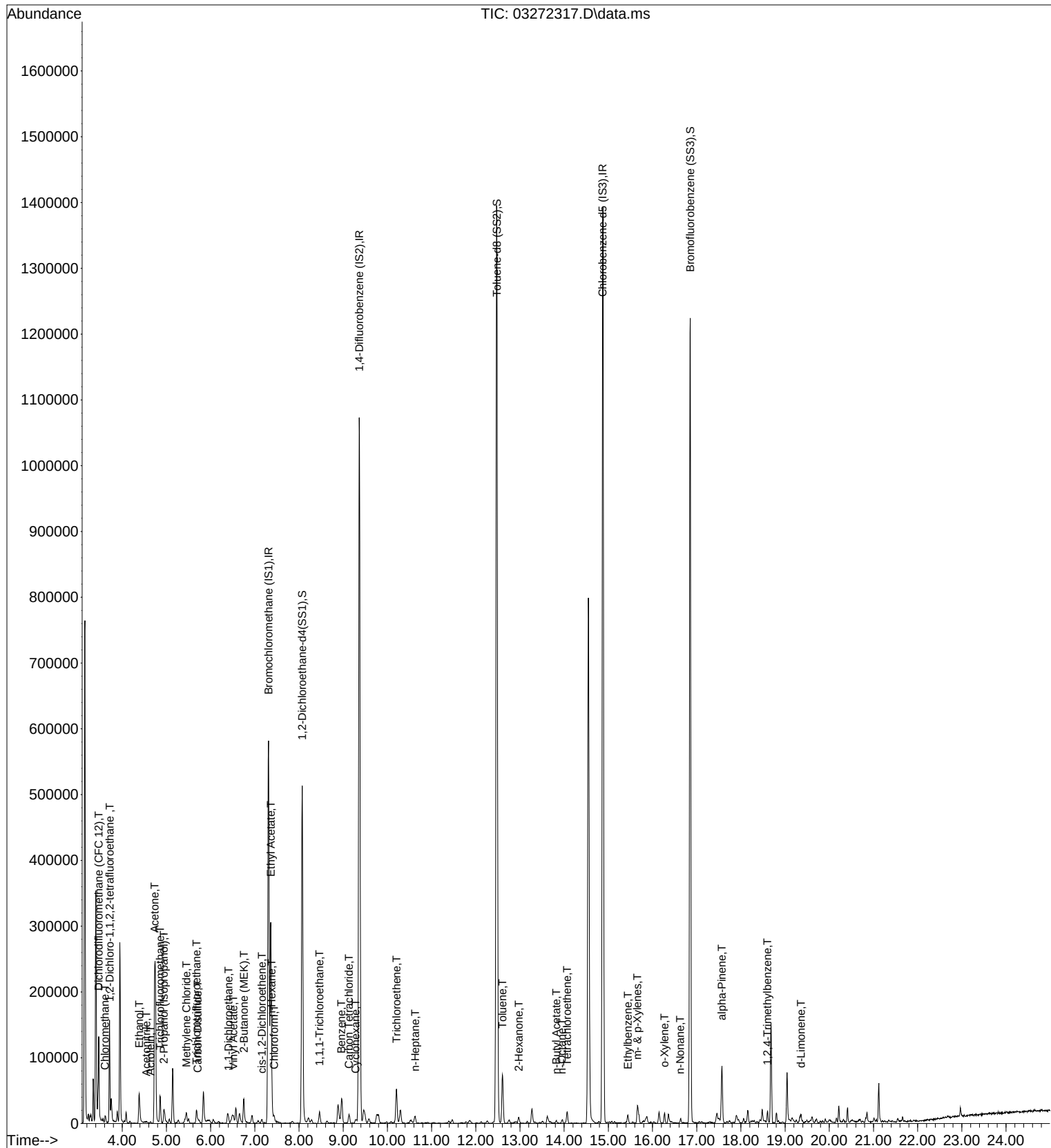
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.63	71	2614	0.130	ng	82
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.38	58	448	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.60	91	61795	0.626	ng	99
59) 2-Hexanone	12.97	43	8325	0.174	ng	92
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.83	43	4763	0.087	ng	87
63) n-Octane	13.95	57	978	0.050	ng	95
64) Tetrachloroethene	14.07	166	6420	0.214	ng	92
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	15.44	91	11044	0.094	ng	99
67) m- & p-Xylenes	15.66	91	26262	0.277	ng	98
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.14	104	981	N.D.		
70) o-Xylene	16.27	91	10522	0.116	ng	99
71) n-Nonane	16.63	43	3158	0.072	ng	94
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	17.05	105	3112	N.D.		
75) alpha-Pinene	17.57	93	39045	0.767	ng	97
76) n-Propylbenzene	17.75	91	3700	N.D.		
77) 3-Ethyltoluene	17.34	105	305	No Calib	#	
78) 4-Ethyltoluene	17.95	105	3120	N.D.		
79) 1,3,5-Trimethylbenzene	18.06	105	4197	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.34	105	305	No Calib	#	
82) 1,2,4-Trimethylbenzene	18.60	105	10051	0.109	ng	91
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	18.75	91	174	N.D.		
85) 1,3-Dichlorobenzene	18.68	146	176	N.D.		
86) 1,4-Dichlorobenzene	18.86	146	126	N.D.		
87) sec-Butylbenzene	18.96	105	592	N.D.		
88) 4-Isopropyltoluene (p-...	19.18	119	2813	N.D.		
89) 1,2,3-Trimethylbenzene	17.34	105	305	No Calib	#	
90) 1,2-Dichlorobenzene	19.31	146	113	N.D.		
91) d-Limonene	19.36	68	2778	0.089	ng	88
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.23	58	1563	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	621	N.D.		
95) Naphthalene	21.55	128	1574	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	21.98	225	223	N.D.		
98) Cyclohexanone	15.68	55	115	No Calib	#	
99) tert-Butylbenzene	18.61	119	1682	N.D.		
100) n-Butylbenzene	19.71	91	1595	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\27\03272317.D
Acq On : 27 Mar 2023 13:31
Sample : P2301250-030 (1000mL)
Misc : S35-01202301

Vial: 4
Operator: TZ
Inst : MS13

Quant Time: Mar 28 11:10:54 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\27\03272317.D
 Acq On : 27 Mar 2023 13:31
 Sample : P2301250-030 (1000mL)
 Misc : S35-01202301

Vial: 4
 Operator: TZ
 Inst : MS13

T2 3/28/23

Quant Time: Mar 28 11:10:54 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.31	130	240177	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	9.36	114	1067053	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.87	54	201732	12.500	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.07	65	410277	12.872	ng	-0.04
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.96%
57) Toluene-d8 (SS2)	12.48	98	1212375	11.686	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.52%
73) Bromofluorobenzene (SS3)	16.85	174	451188	11.874	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.96%

Target Compounds

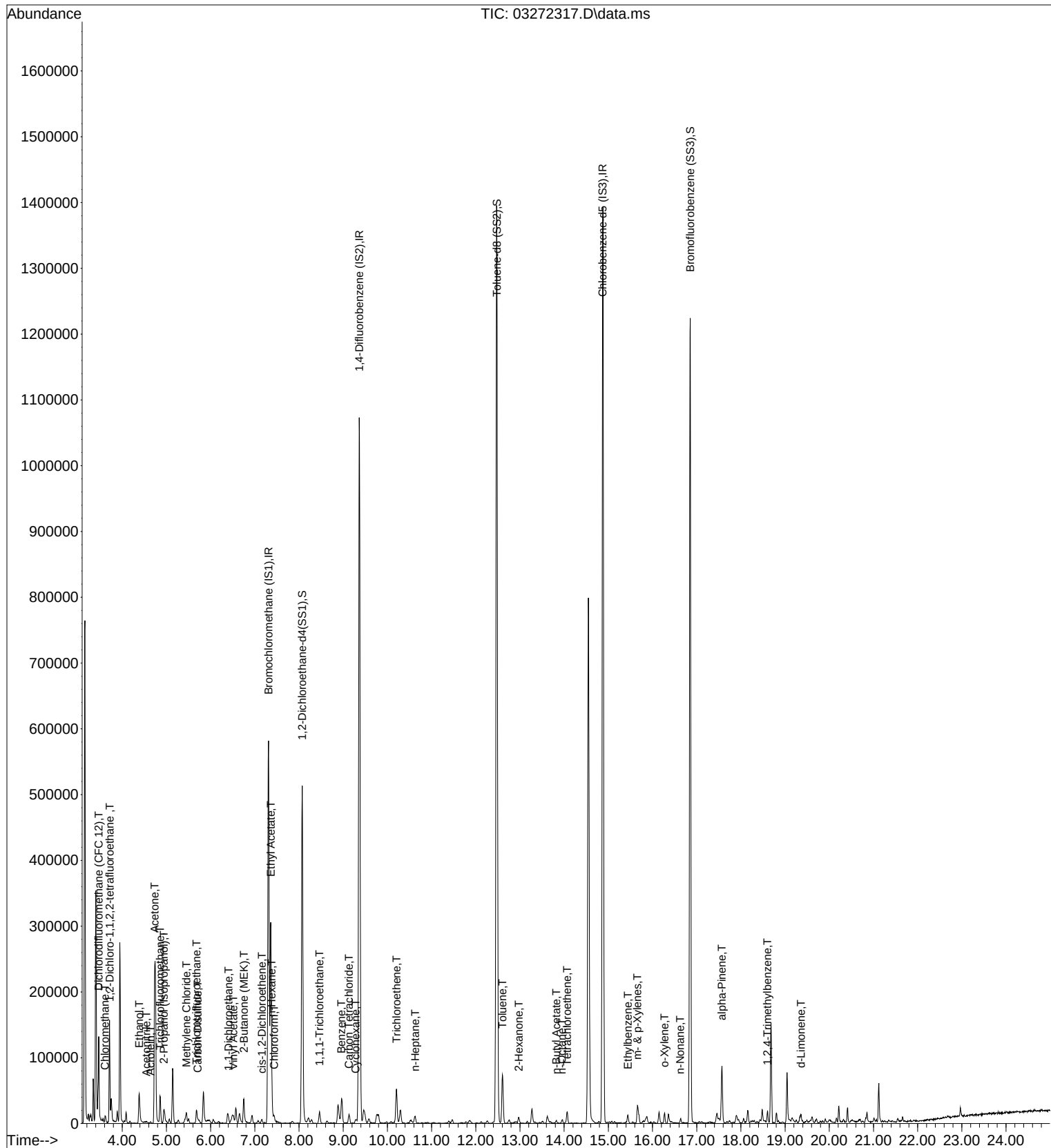
						Qvalue
3) Dichlorodifluoromethan...	3.47	85	69657	1.583	ng	99
4) Chloromethane	3.61	50	7069	0.223	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	3.72	135	1383	0.062	ng	96
10) Ethanol	4.38	45	60197	3.529	ng	97
11) Acetonitrile	4.54	41	3305	0.075	ng	# 33
12) Acrolein	4.64	56	1844	0.131	ng	93
13) Acetone	4.73	58	70746	4.860	ng	# 79
14) Trichlorofluoromethane	4.86	101	30150	0.761	ng	100
15) 2-Propanol (Isopropanol)	4.94	45	23458	0.399	ng	88
19) Methylene Chloride	5.45	84	5873	0.275	ng	93
21) Trichlorotrifluoroethane	5.68	151	7597	0.365	ng	90
22) Carbon Disulfide	5.71	76	10489	0.124	ng	100
24) 1,1-Dichloroethane	6.40	63	4644	0.122	ng	96
26) Vinyl Acetate	6.52	86	2037	0.517	ng	# 63
27) 2-Butanone (MEK)	6.75	72	11572	0.895	ng	94
28) cis-1,2-Dichloroethene	7.16	61	3782	0.123	ng	95
30) Ethyl Acetate	7.36	61	53851	6.337	ng	98
31) n-Hexane	7.38	57	8598	0.263	ng	# 90
32) Chloroform	7.43	83	5623	0.145	ng	97
38) 1,1,1-Trichloroethane	8.46	97	10935	0.310	ng	99
41) Benzene	8.96	78	37529	0.452	ng	97
42) Carbon Tetrachloride	9.13	117	9170	0.294	ng	93
43) Cyclohexane	9.28	84	2089	0.069	ng	93
47) Trichloroethene	10.21	130	21547	0.886	ng	98
51) n-Heptane	10.63	71	2614	0.130	ng	82
58) Toluene	12.60	91	61795	0.626	ng	99
59) 2-Hexanone	12.97	43	8325	0.174	ng	92
62) n-Butyl Acetate	13.83	43	4763	0.087	ng	87
63) n-Octane	13.95	57	978	0.050	ng	95
64) Tetrachloroethene	14.07	166	6420	0.214	ng	92
66) Ethylbenzene	15.44	91	11044	0.094	ng	99
67) m- & p-Xylenes	15.66	91	26262	0.277	ng	98
70) o-Xylene	16.27	91	10522	0.116	ng	99
71) n-Nonane	16.63	43	3158	0.072	ng	94
75) alpha-Pinene	17.57	93	39045	0.767	ng	97
82) 1,2,4-Trimethylbenzene	18.60	105	10051	0.109	ng	91
91) d-Limonene	19.36	68	2778	0.089	ng	88

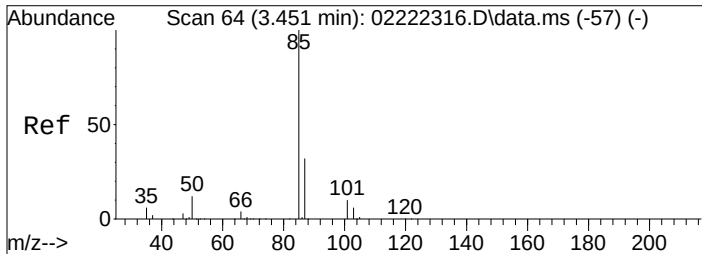
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS13\DATA\2023_03\27\03272317.D
Acq On : 27 Mar 2023 13:31
Sample : P2301250-030 (1000mL)
Misc : S35-01202301

Vial: 4
Operator: TZ
Inst : MS13

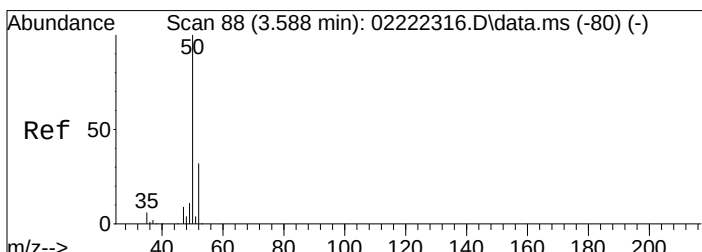
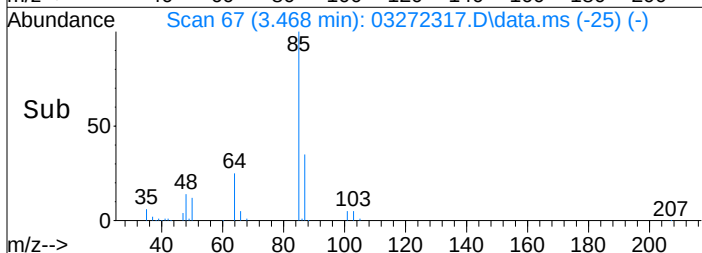
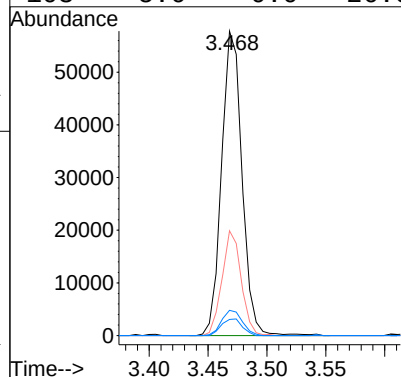
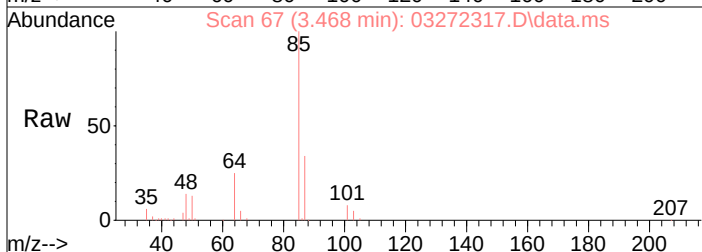
Quant Time: Mar 28 11:10:54 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M





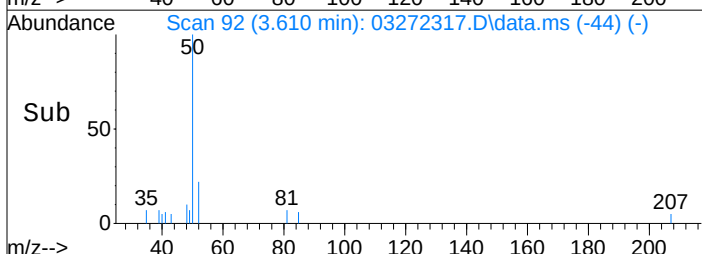
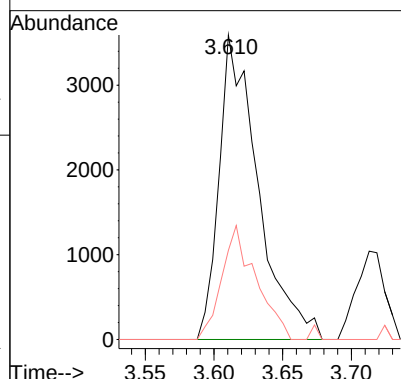
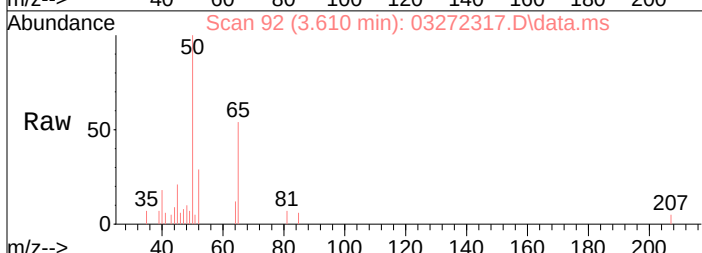
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.58 ng
 RT: 3.47 min Scan# 67
 Delta R.T. -0.010 min
 Lab File: 03272317.D
 Acq: 27 Mar 2023 13:31

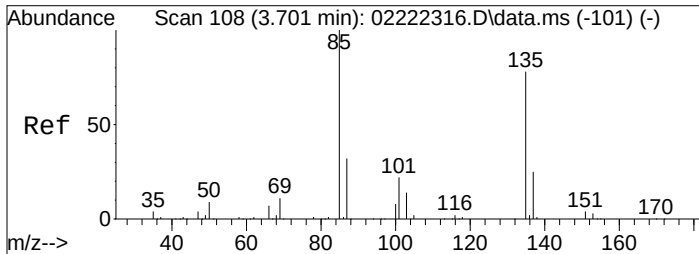
Tgt Ion:	85	Resp:	69657
Ion Ratio		Lower	Upper
85	100		
87	32.3	12.4	52.4
101	8.5	0.0	29.4
103	5.6	0.0	26.0



#4
 Chloromethane
 Concen: 0.22 ng
 RT: 3.61 min Scan# 92
 Delta R.T. 0.023 min
 Lab File: 03272317.D
 Acq: 27 Mar 2023 13:31

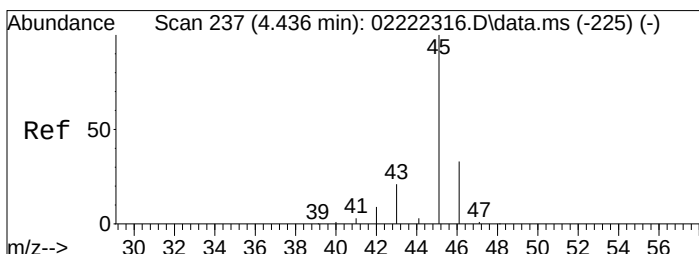
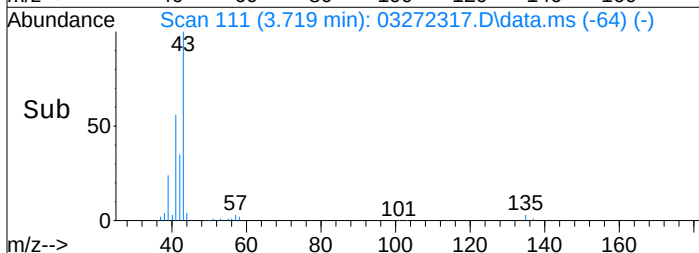
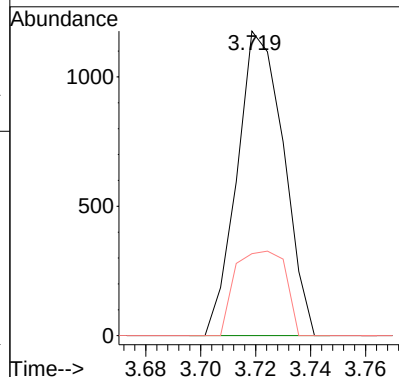
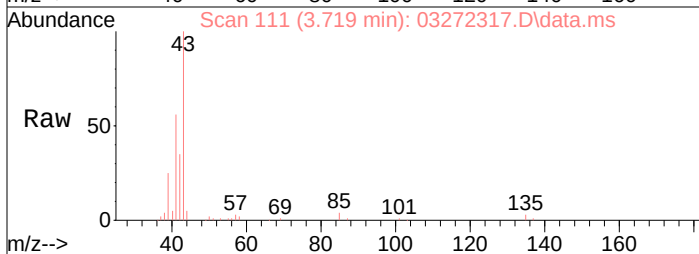
Tgt Ion:	50	Resp:	7069
Ion Ratio		Lower	Upper
50	100		
52	32.9	13.0	53.0





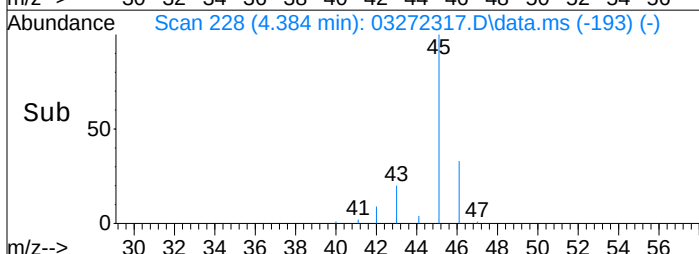
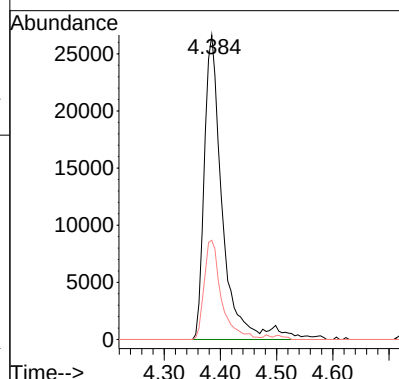
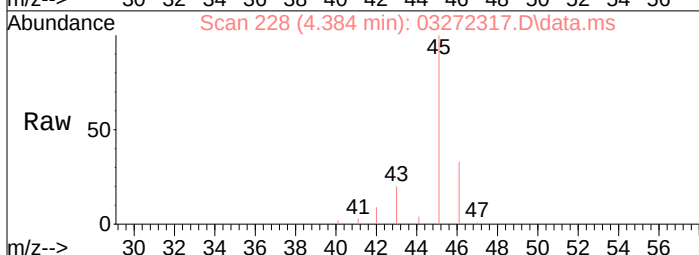
#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.06 ng
 RT: 3.72 min Scan# 111
 Delta R.T. 0.017 min
 Lab File: 03272317.D
 Acq: 27 Mar 2023 13:31

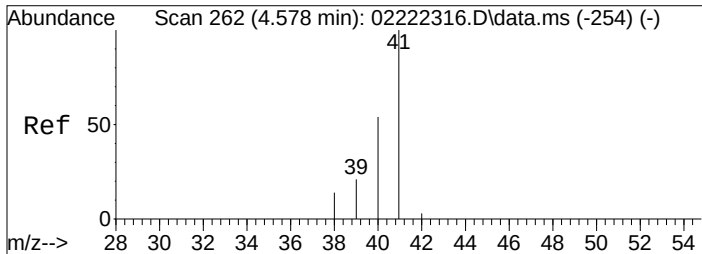
Tgt Ion: 135 Resp: 1383
 Ion Ratio Lower Upper
 135 100
 137 30.1 12.2 52.2



#10
 Ethanol
 Concen: 3.53 ng
 RT: 4.38 min Scan# 228
 Delta R.T. -0.051 min
 Lab File: 03272317.D
 Acq: 27 Mar 2023 13:31

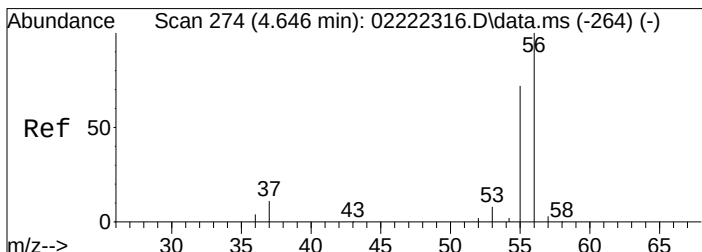
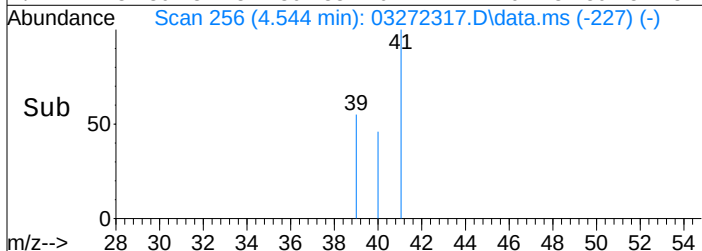
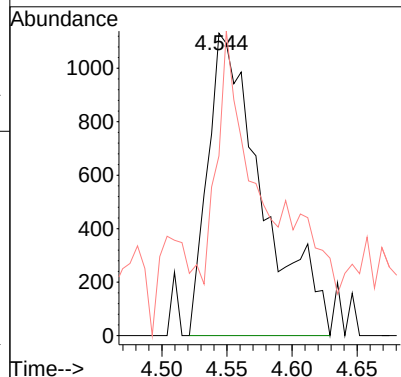
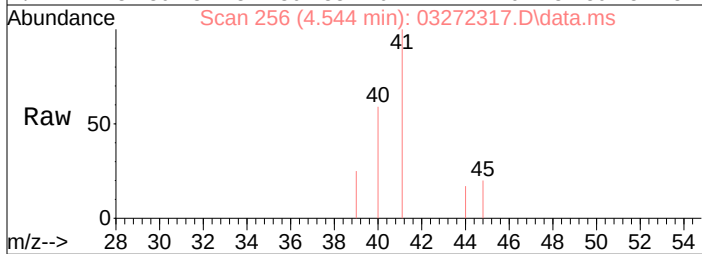
Tgt Ion: 45 Resp: 60197
 Ion Ratio Lower Upper
 45 100
 46 32.1 13.8 53.8





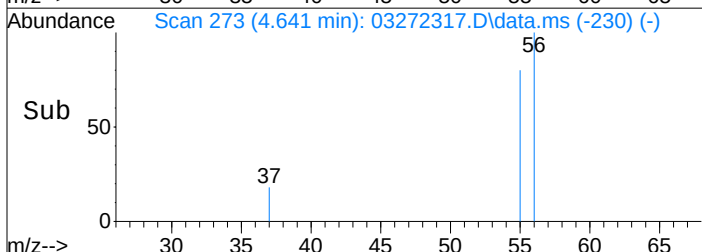
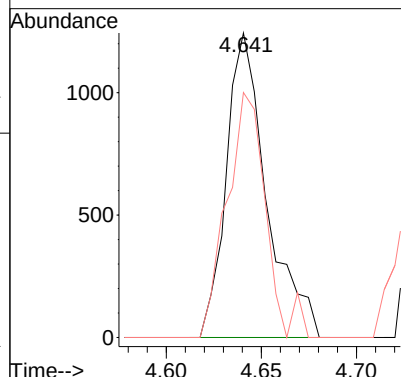
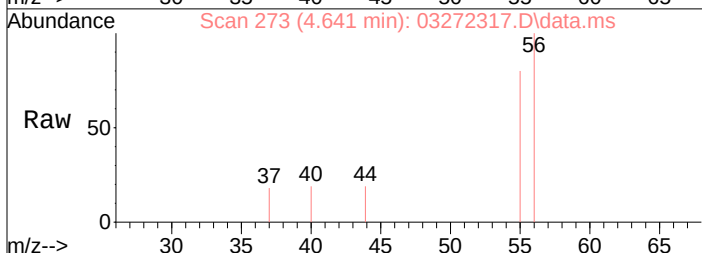
#11
Acetonitrile
Concen: 0.07 ng
RT: 4.54 min Scan# 256
Delta R.T. -0.034 min
Lab File: 03272317.D
Acq: 27 Mar 2023 13:31

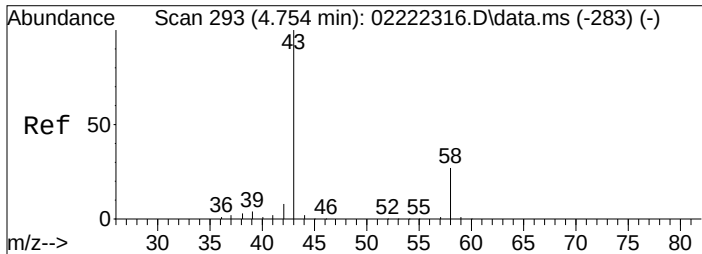
Tgt Ion: 41 Resp: 3305
Ion Ratio Lower Upper
41 100
40 102.6 34.4 74.4#



#12
Acrolein
Concen: 0.13 ng
RT: 4.64 min Scan# 273
Delta R.T. -0.006 min
Lab File: 03272317.D
Acq: 27 Mar 2023 13:31

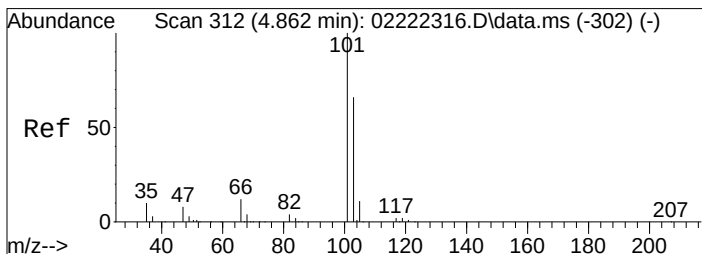
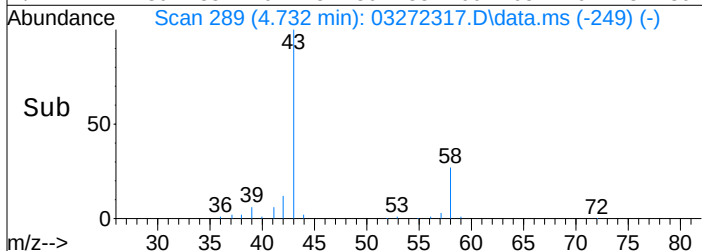
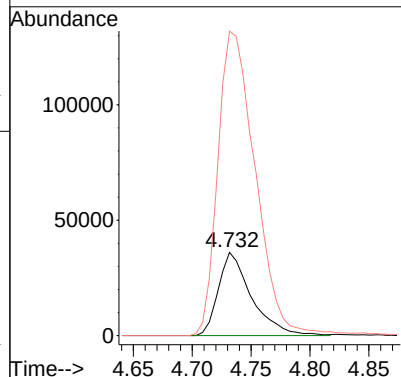
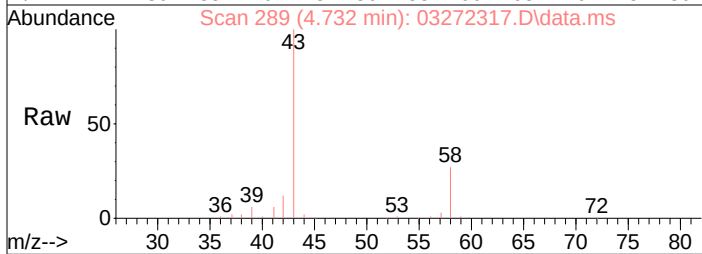
Tgt Ion: 56 Resp: 1844
Ion Ratio Lower Upper
56 100
55 76.9 50.9 90.9





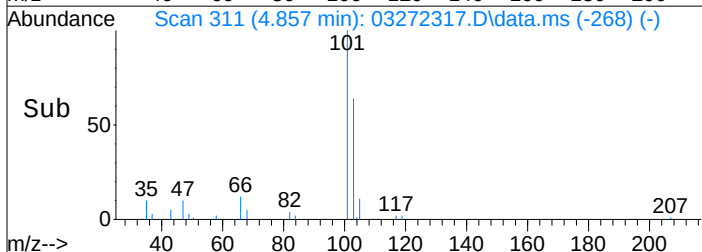
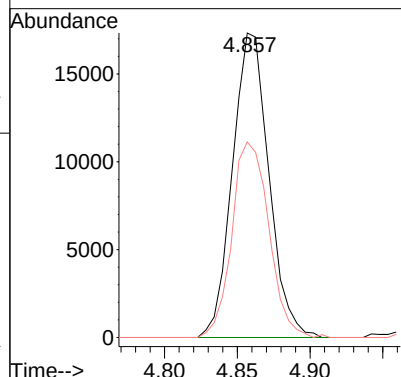
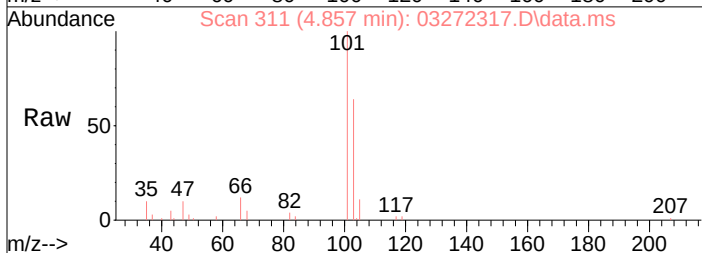
#13
Acetone
Concen: 4.86 ng
RT: 4.73 min Scan# 289
Delta R.T. -0.023 min
Lab File: 03272317.D
Acq: 27 Mar 2023 13:31

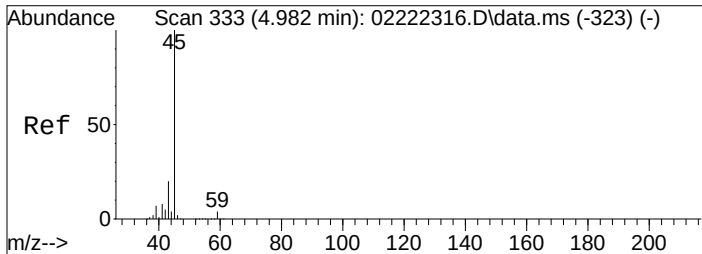
Tgt Ion: 58 Resp: 70746
Ion Ratio Lower Upper
58 100
43 415.9 337.8 397.8#



#14
Trichlorofluoromethane
Concen: 0.76 ng
RT: 4.86 min Scan# 311
Delta R.T. -0.006 min
Lab File: 03272317.D
Acq: 27 Mar 2023 13:31

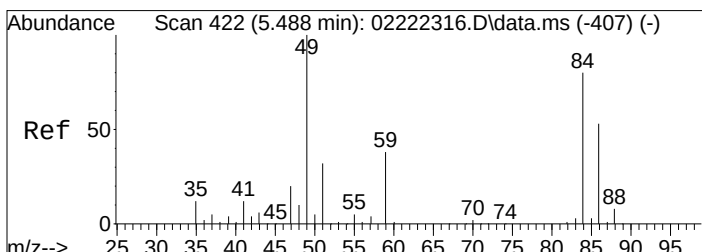
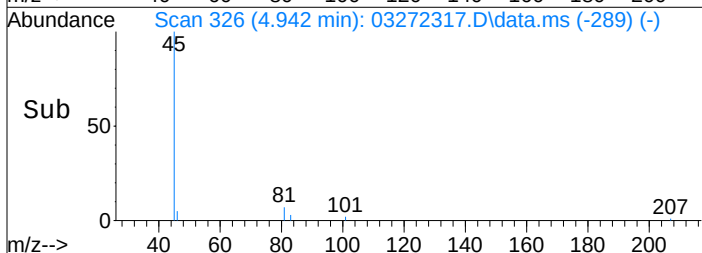
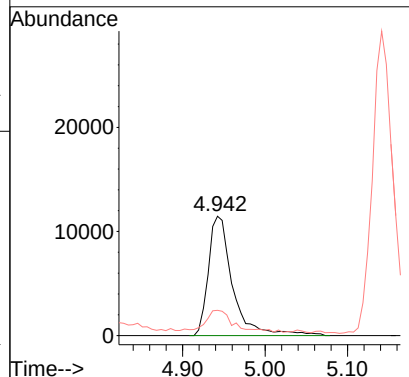
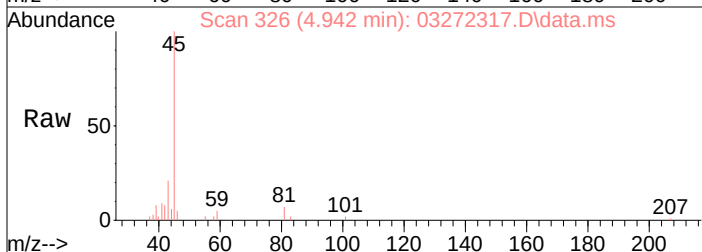
Tgt Ion: 101 Resp: 30150
Ion Ratio Lower Upper
101 100
103 65.3 45.2 85.2





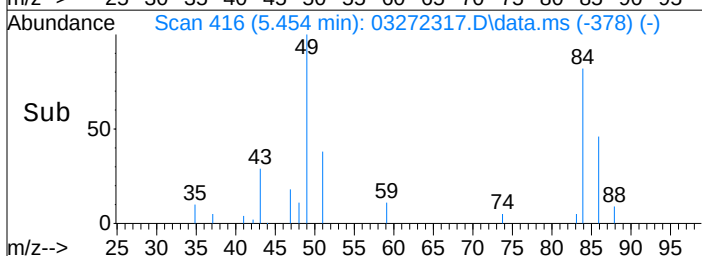
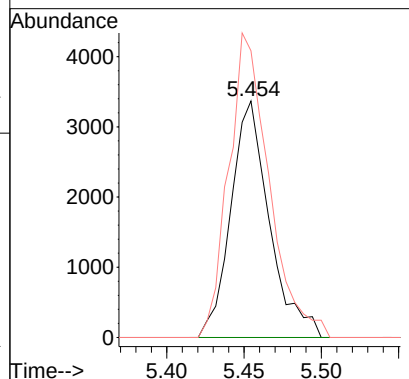
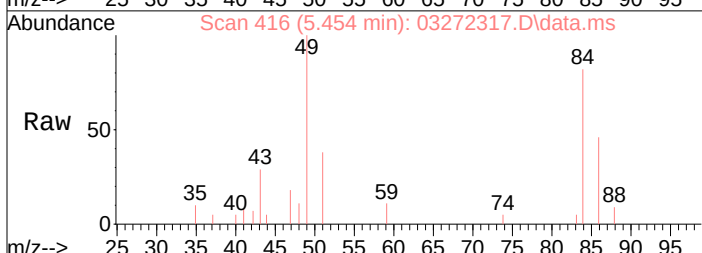
#15
 2-Propanol (Isopropanol)
 Concen: 0.40 ng
 RT: 4.94 min Scan# 326
 Delta R.T. -0.040 min
 Lab File: 03272317.D
 Acq: 27 Mar 2023 13:31

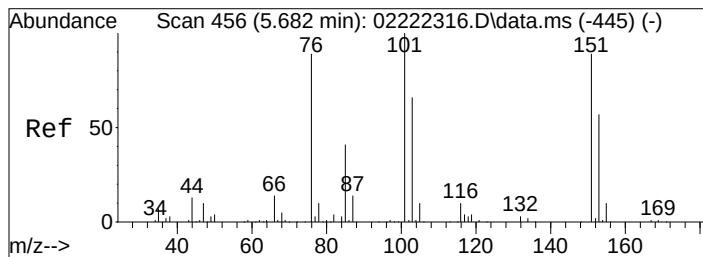
Tgt Ion: 45 Resp: 23458
 Ion Ratio Lower Upper
 45 100
 43 25.2 0.0 39.7



#19
 Methylene Chloride
 Concen: 0.28 ng
 RT: 5.45 min Scan# 416
 Delta R.T. -0.034 min
 Lab File: 03272317.D
 Acq: 27 Mar 2023 13:31

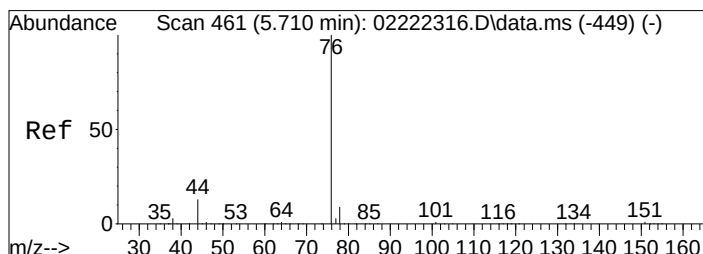
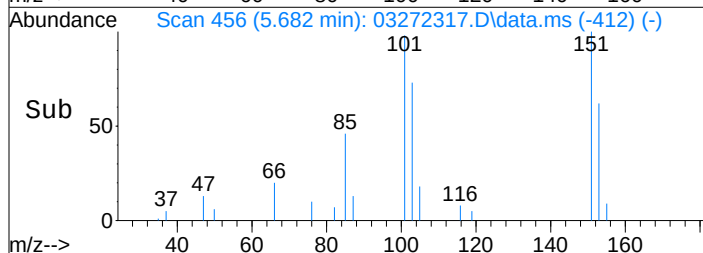
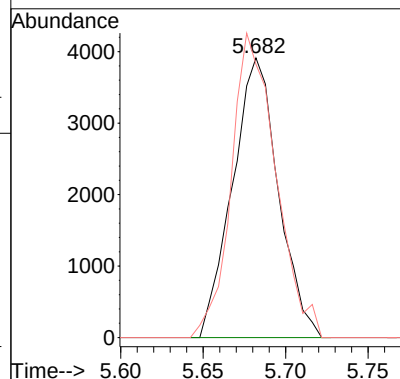
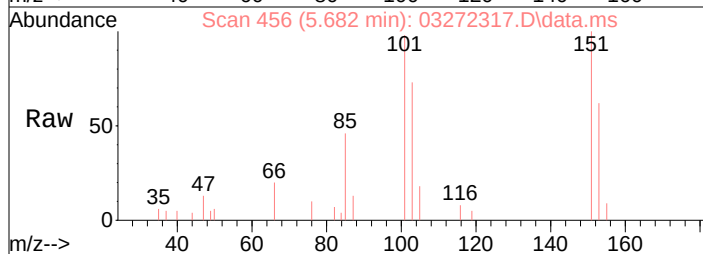
Tgt Ion: 84 Resp: 5873
 Ion Ratio Lower Upper
 84 100
 49 134.8 101.3 151.3





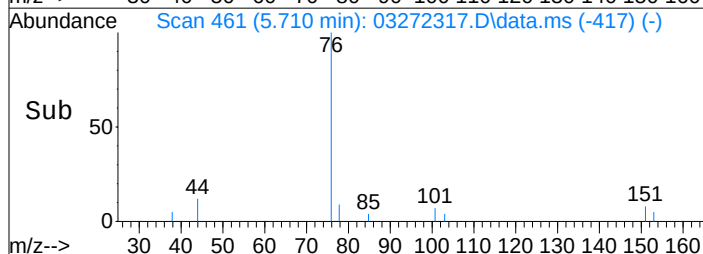
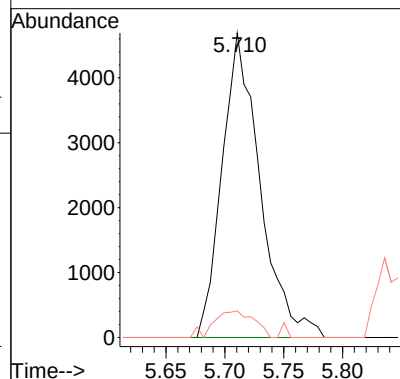
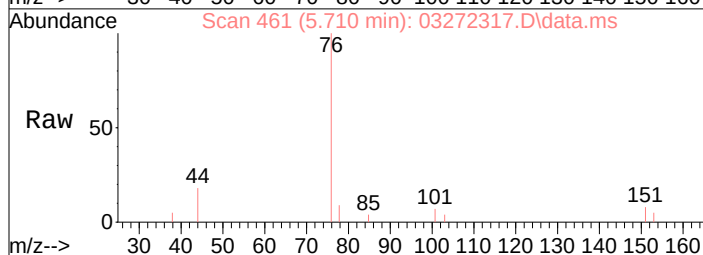
#21
 Trichlorotrifluoroethane
 Concen: 0.36 ng
 RT: 5.68 min Scan# 456
 Delta R.T. 0.000 min
 Lab File: 03272317.D
 Acq: 27 Mar 2023 13:31

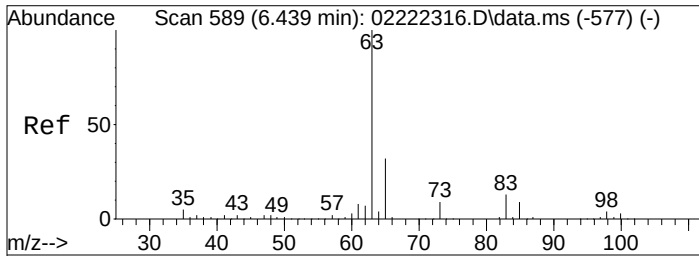
Tgt Ion: 151 Resp: 7597
 Ion Ratio Lower Upper
 151 100
 101 105.2 96.3 136.3



#22
 Carbon Disulfide
 Concen: 0.12 ng
 RT: 5.71 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: 03272317.D
 Acq: 27 Mar 2023 13:31

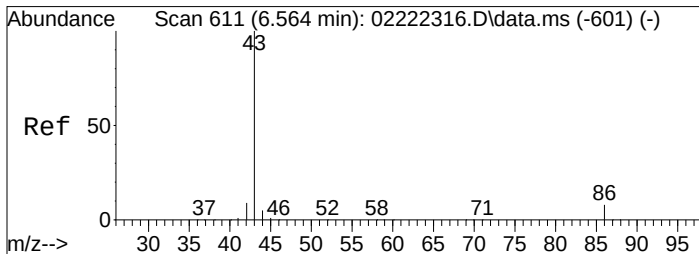
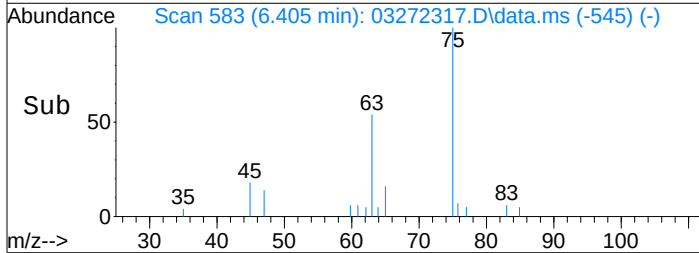
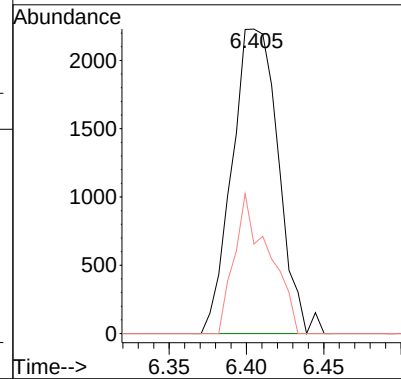
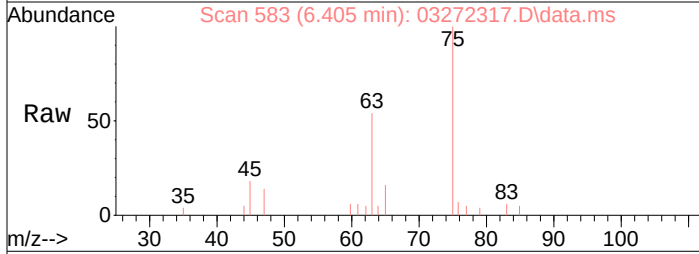
Tgt Ion: 76 Resp: 10489
 Ion Ratio Lower Upper
 76 100
 78 9.3 0.0 29.3





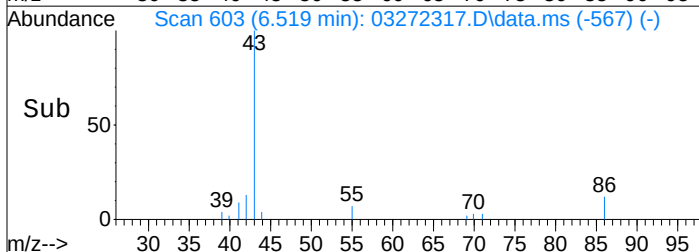
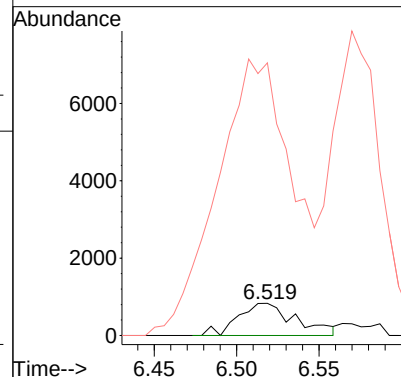
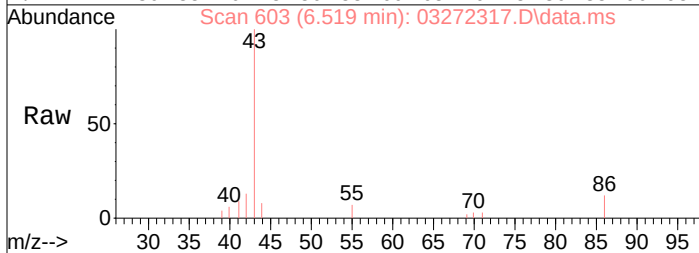
#24
1,1-Dichloroethane
Concen: 0.12 ng
RT: 6.40 min Scan# 583
Delta R.T. -0.034 min
Lab File: 03272317.D
Acq: 27 Mar 2023 13:31

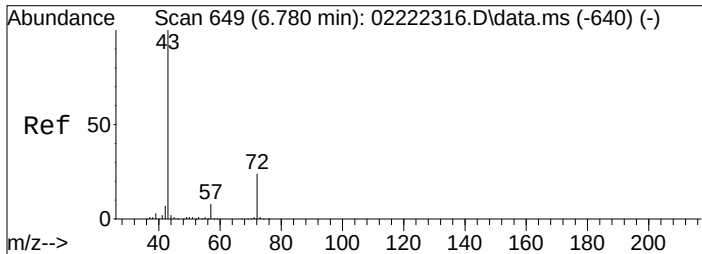
Tgt Ion: 63 Resp: 4644
Ion Ratio Lower Upper
63 100
65 34.4 12.0 52.0



#26
Vinyl Acetate
Concen: 0.52 ng
RT: 6.52 min Scan# 603
Delta R.T. -0.045 min
Lab File: 03272317.D
Acq: 27 Mar 2023 13:31

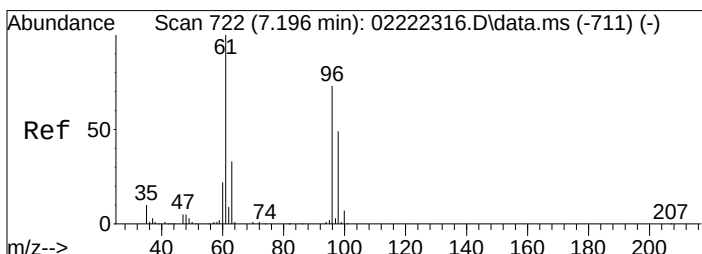
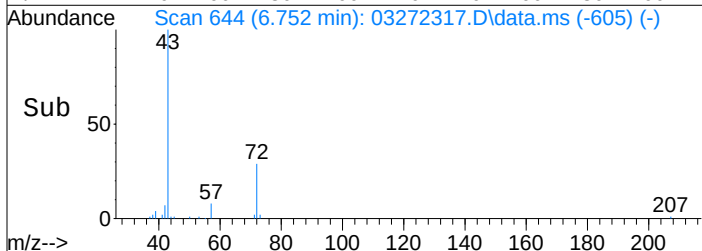
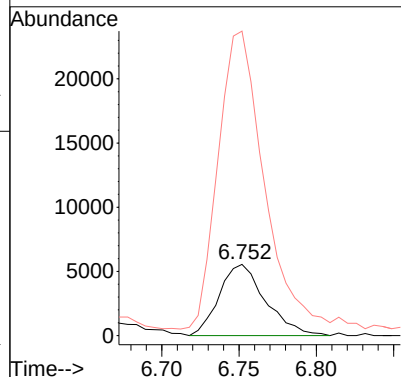
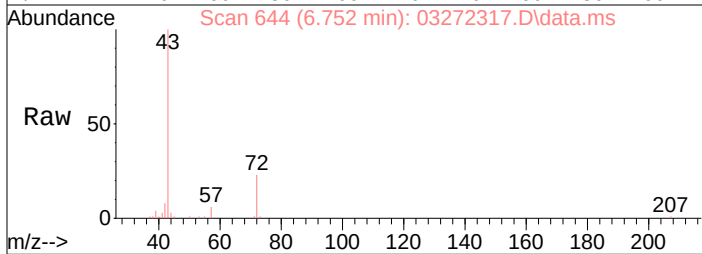
Tgt Ion: 86 Resp: 2037
Ion Ratio Lower Upper
86 100
43 1109.0 1292.1 1332.1#





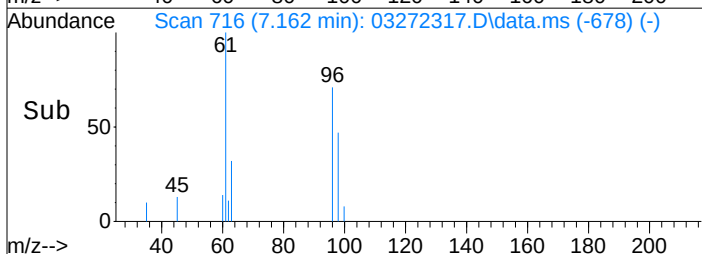
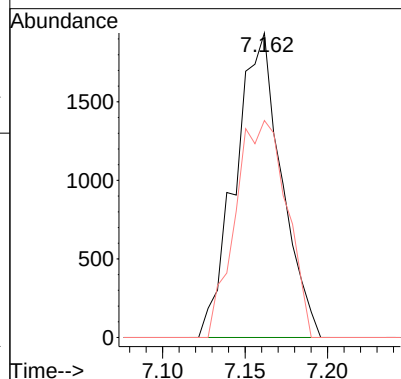
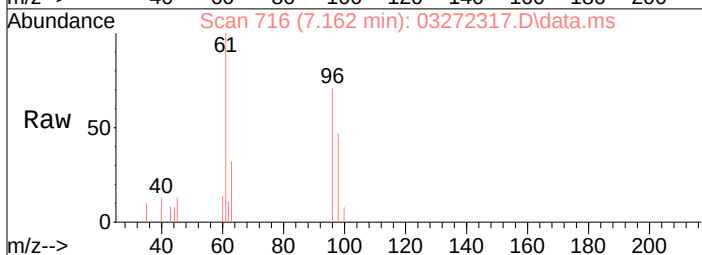
#27
2-Butanone (MEK)
Concen: 0.90 ng
RT: 6.75 min Scan# 644
Delta R.T. -0.028 min
Lab File: 03272317.D
Acq: 27 Mar 2023 13:31

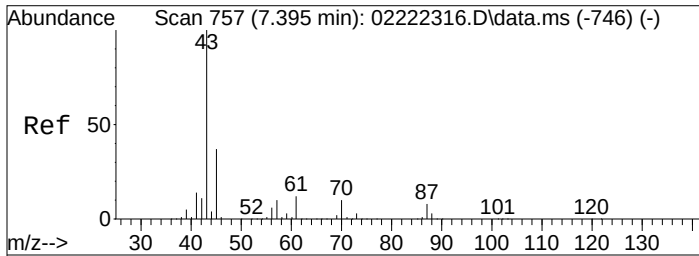
Tgt Ion: 72 Resp: 11572
Ion Ratio Lower Upper
72 100
43 435.2 400.5 440.5



#28
cis-1,2-Dichloroethene
Concen: 0.12 ng
RT: 7.16 min Scan# 716
Delta R.T. -0.034 min
Lab File: 03272317.D
Acq: 27 Mar 2023 13:31

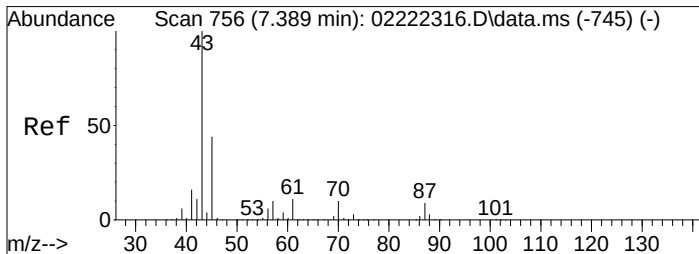
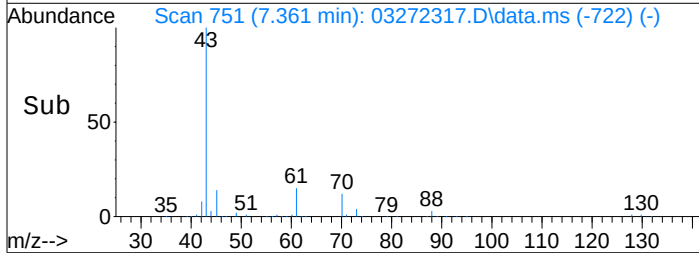
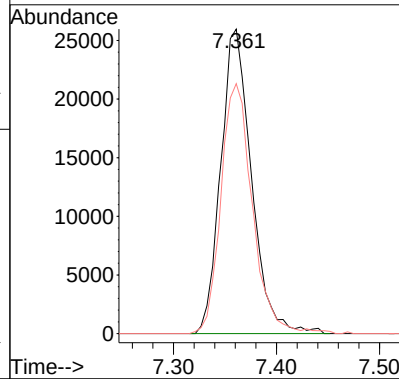
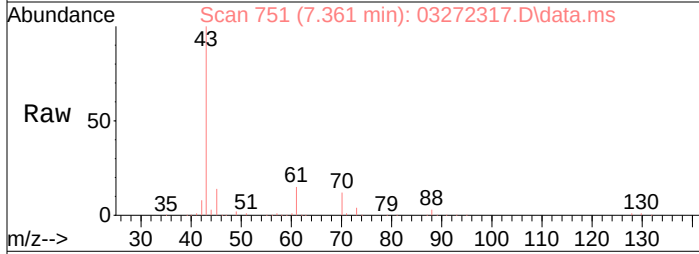
Tgt Ion: 61 Resp: 3782
Ion Ratio Lower Upper
61 100
96 79.1 54.5 94.5





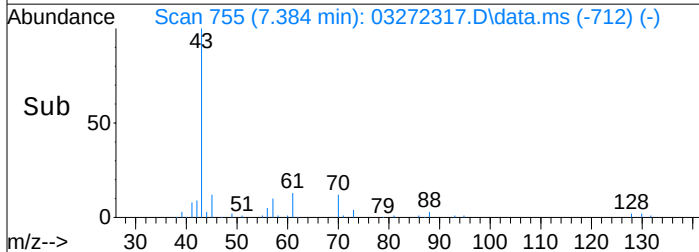
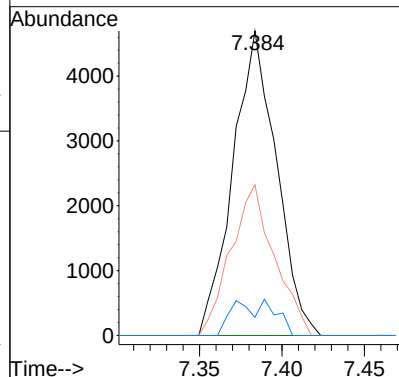
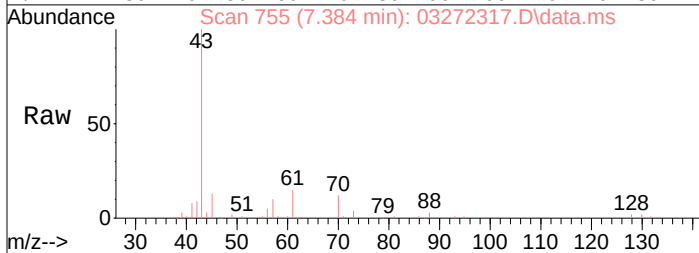
#30
Ethyl Acetate
Concen: 6.34 ng
RT: 7.36 min Scan# 751
Delta R.T. -0.034 min
Lab File: 03272317.D
Acq: 27 Mar 2023 13:31

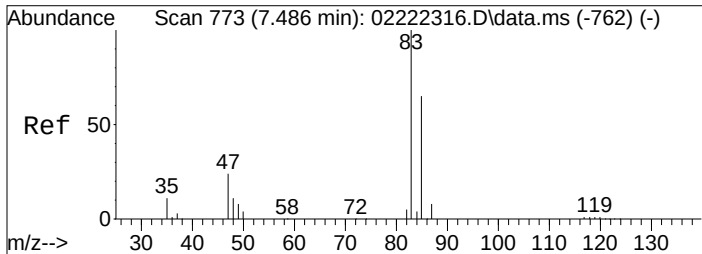
Tgt Ion: 61 Resp: 53851
Ion Ratio Lower Upper
61 100
70 84.0 65.6 105.6



#31
n-Hexane
Concen: 0.26 ng
RT: 7.38 min Scan# 755
Delta R.T. -0.006 min
Lab File: 03272317.D
Acq: 27 Mar 2023 13:31

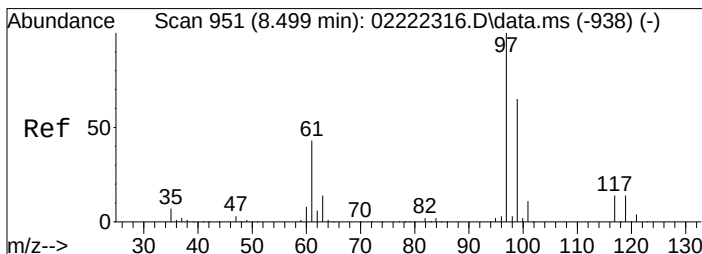
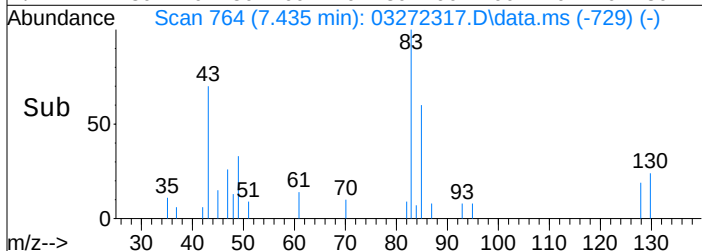
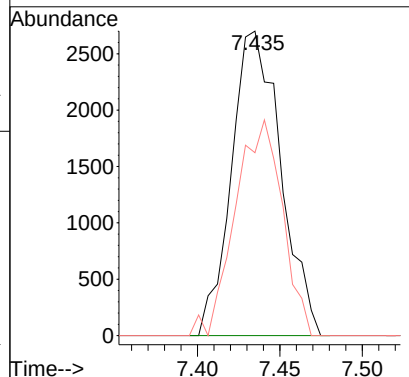
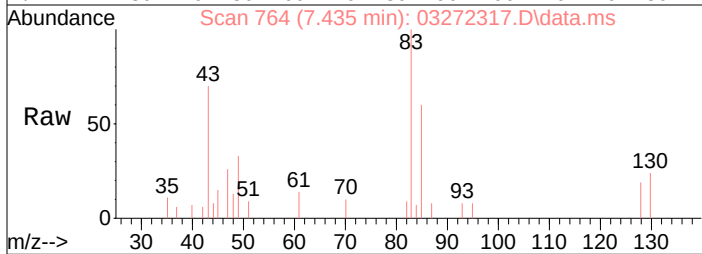
Tgt Ion: 57 Resp: 8598
Ion Ratio Lower Upper
57 100
56 49.6 44.0 66.0
86 6.2 11.5 17.3#





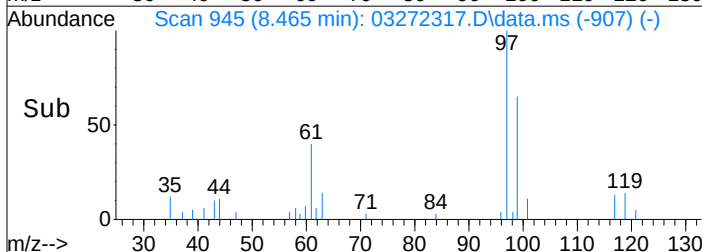
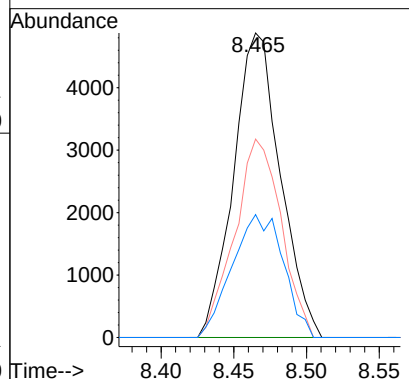
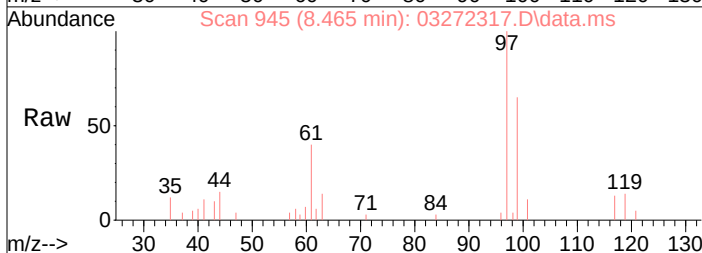
#32
 Chloroform
 Concen: 0.15 ng
 RT: 7.43 min Scan# 764
 Delta R.T. -0.051 min
 Lab File: 03272317.D
 Acq: 27 Mar 2023 13:31

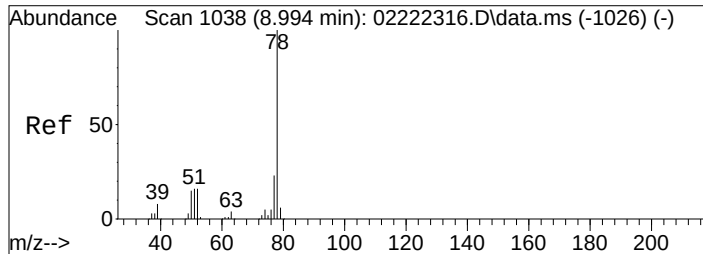
Tgt Ion:	83	Resp:	5623
Ion Ratio	Lower	Upper	
83	100		
85	67.7	45.0	85.0



#38
 1,1,1-Trichloroethane
 Concen: 0.31 ng
 RT: 8.46 min Scan# 945
 Delta R.T. -0.034 min
 Lab File: 03272317.D
 Acq: 27 Mar 2023 13:31

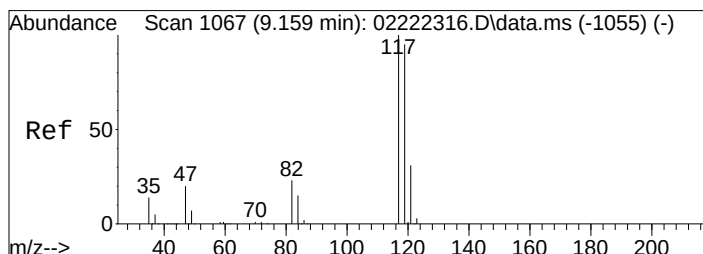
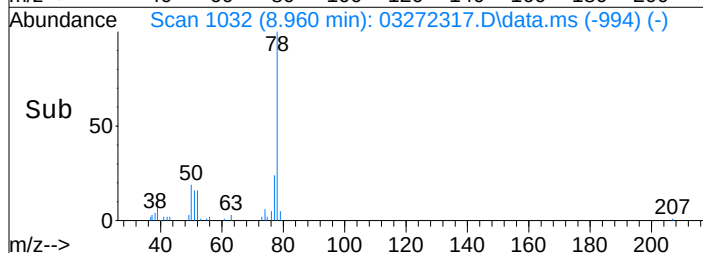
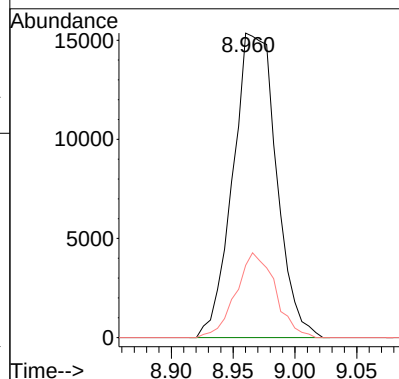
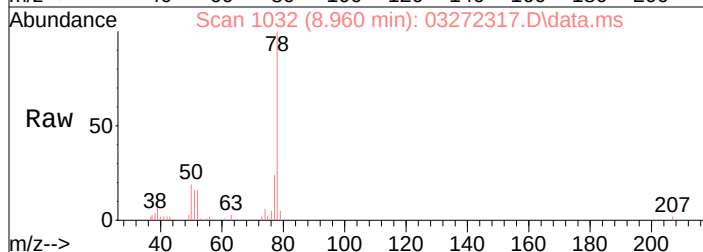
Tgt Ion:	97	Resp:	10935
Ion Ratio	Lower	Upper	
97	100		
99	64.6	44.9	84.9
61	44.2	23.5	63.5





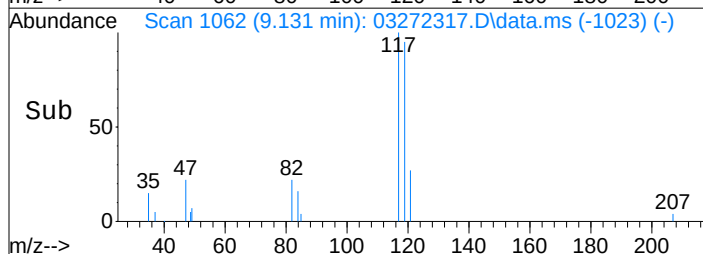
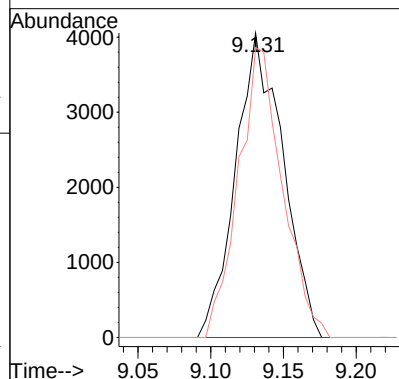
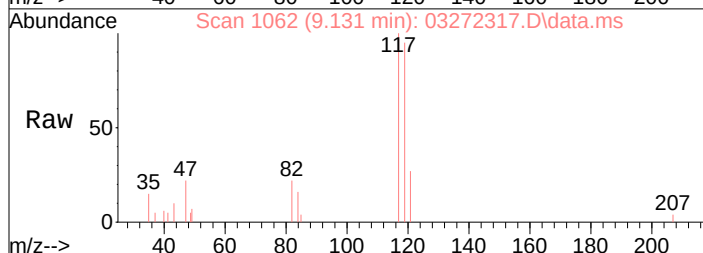
#41
Benzene
Concen: 0.45 ng
RT: 8.96 min Scan# 1032
Delta R.T. -0.034 min
Lab File: 03272317.D
Acq: 27 Mar 2023 13:31

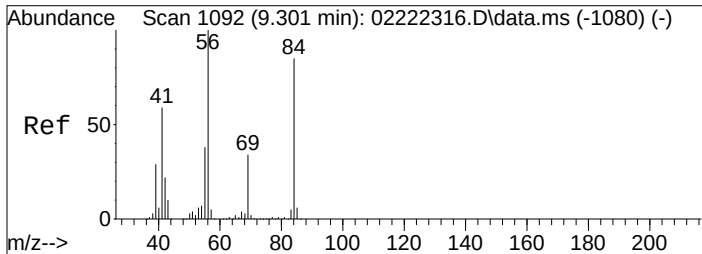
Tgt Ion: 78 Resp: 37529
Ion Ratio Lower Upper
78 100
77 25.3 3.7 43.7



#42
Carbon Tetrachloride
Concen: 0.29 ng
RT: 9.13 min Scan# 1062
Delta R.T. -0.028 min
Lab File: 03272317.D
Acq: 27 Mar 2023 13:31

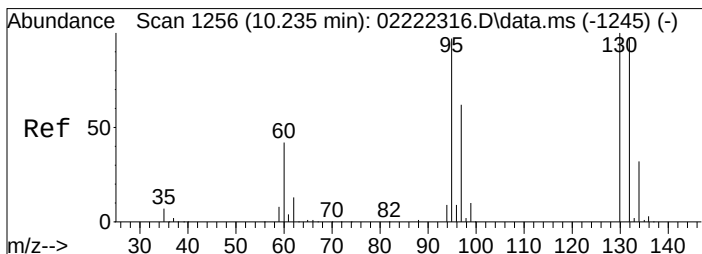
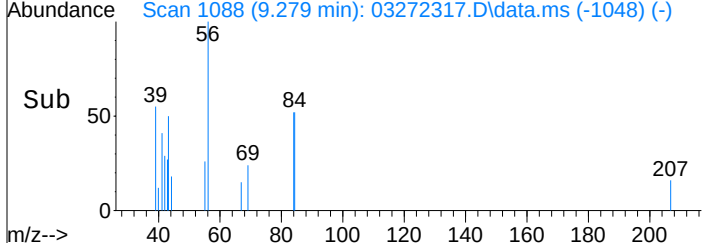
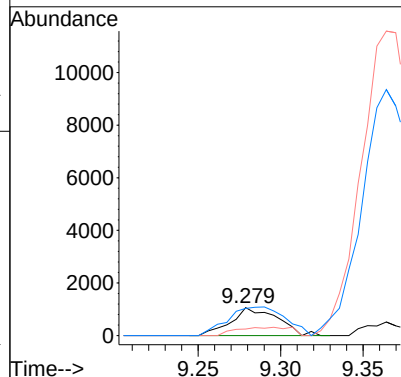
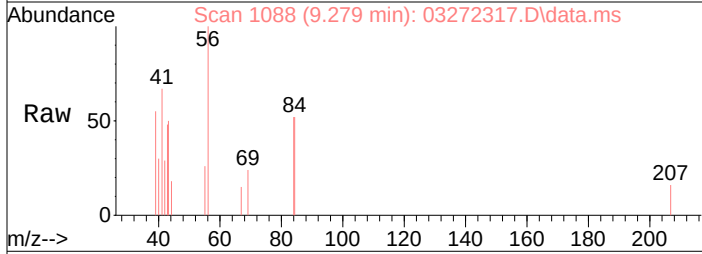
Tgt Ion: 117 Resp: 9170
Ion Ratio Lower Upper
117 100
119 89.0 75.7 115.7





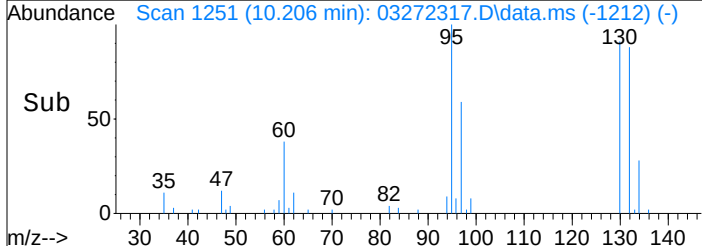
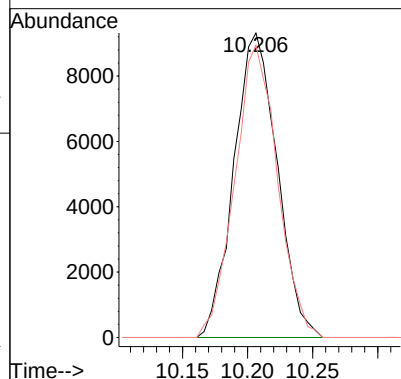
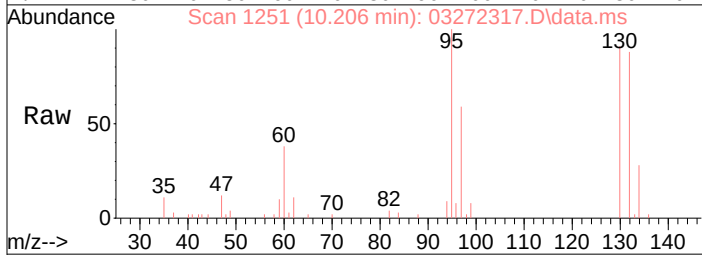
#43
Cyclohexane
Concen: 0.07 ng
RT: 9.28 min Scan# 1088
Delta R.T. -0.023 min
Lab File: 03272317.D
Acq: 27 Mar 2023 13:31

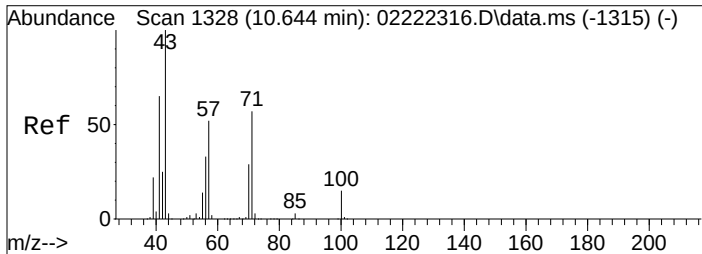
Tgt Ion:	84	Resp:	2089
Ion Ratio		Lower	Upper
84	100		
69	34.9	20.0	60.0
56	126.1	98.5	138.5



#47
Trichloroethene
Concen: 0.89 ng
RT: 10.21 min Scan# 1251
Delta R.T. -0.028 min
Lab File: 03272317.D
Acq: 27 Mar 2023 13:31

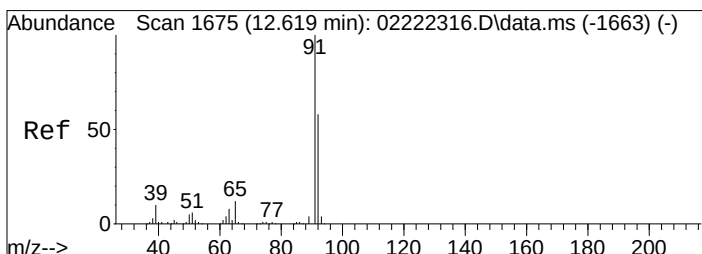
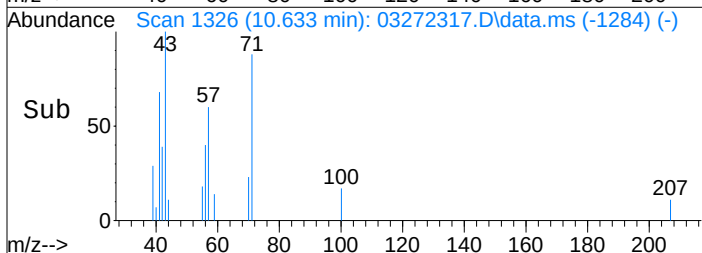
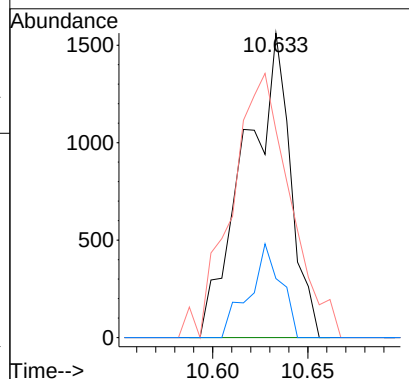
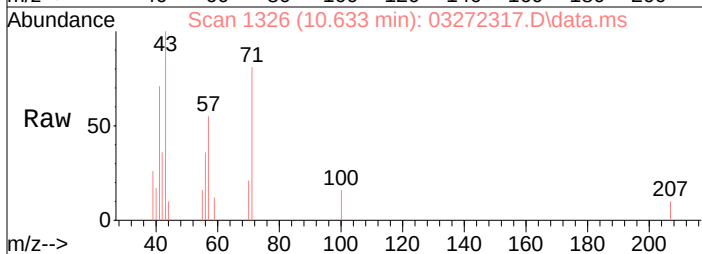
Tgt Ion:	130	Resp:	21547
Ion Ratio		Lower	Upper
130	100		
132	94.8	76.3	116.3





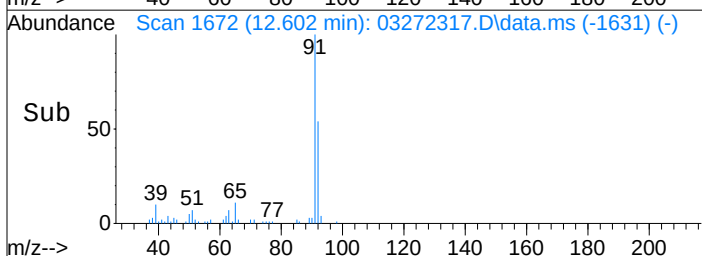
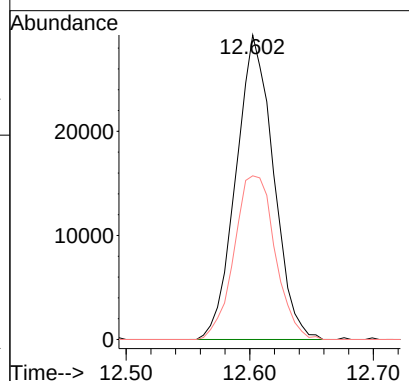
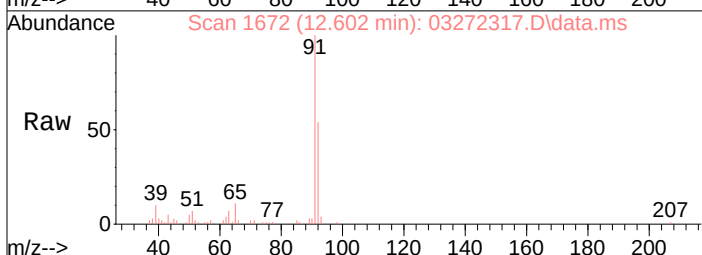
#51
n-Heptane
Concen: 0.13 ng
RT: 10.63 min Scan# 1326
Delta R.T. -0.011 min
Lab File: 03272317.D
Acq: 27 Mar 2023 13:31

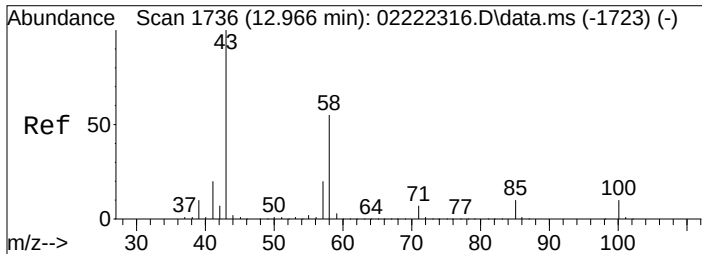
Tgt Ion:	71	Resp:	2614
Ion Ratio	Lower	Upper	
71	100		
57	111.3	71.7	111.7
100	21.3	5.8	45.8



#58
Toluene
Concen: 0.63 ng
RT: 12.60 min Scan# 1672
Delta R.T. -0.017 min
Lab File: 03272317.D
Acq: 27 Mar 2023 13:31

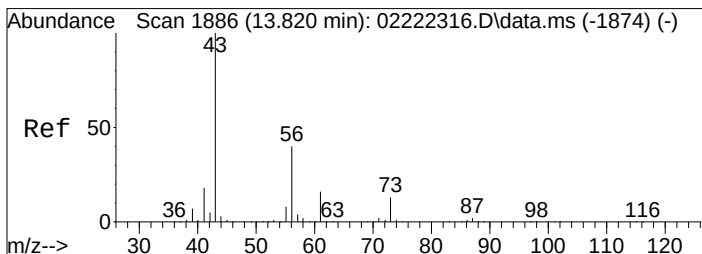
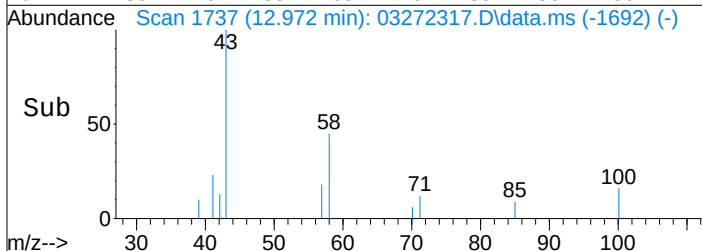
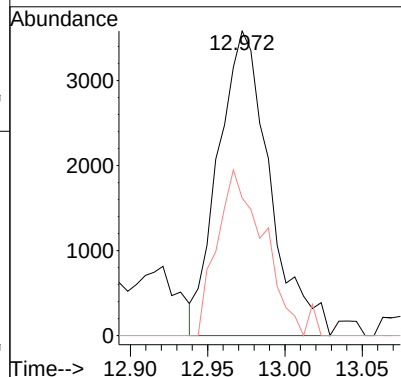
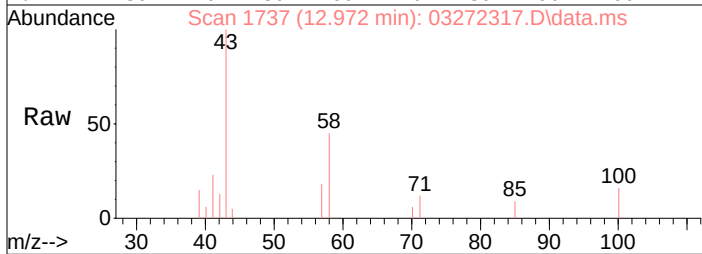
Tgt Ion:	91	Resp:	61795
Ion Ratio	Lower	Upper	
91	100		
92	58.7	38.0	78.0





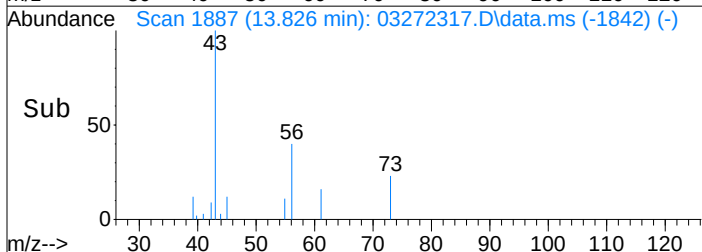
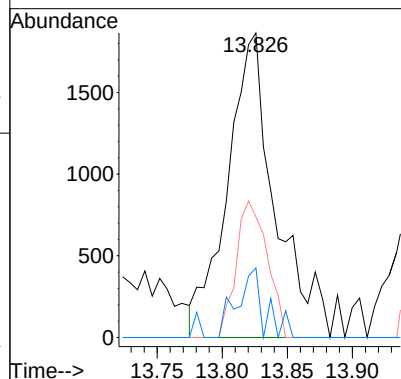
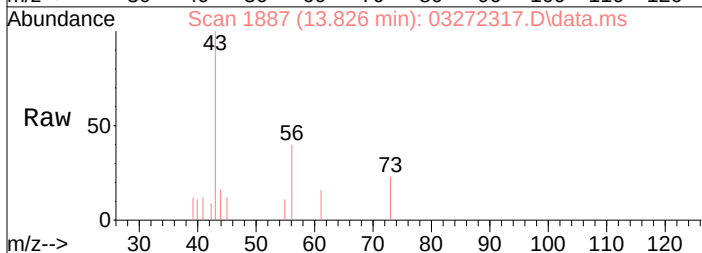
#59
 2-Hexanone
 Concen: 0.17 ng
 RT: 12.97 min Scan# 1737
 Delta R.T. 0.006 min
 Lab File: 03272317.D
 Acq: 27 Mar 2023 13:31

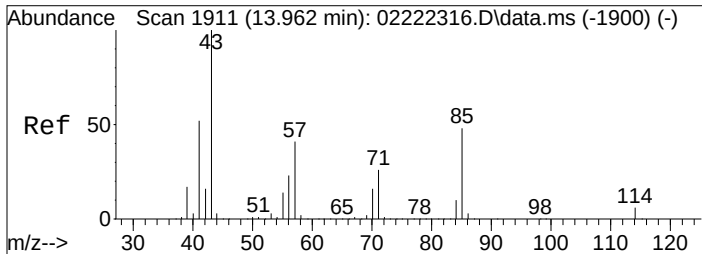
Tgt Ion: 43 Resp: 8325
 Ion Ratio Lower Upper
 43 100
 58 48.7 34.5 74.5



#62
 n-Butyl Acetate
 Concen: 0.09 ng
 RT: 13.83 min Scan# 1887
 Delta R.T. 0.006 min
 Lab File: 03272317.D
 Acq: 27 Mar 2023 13:31

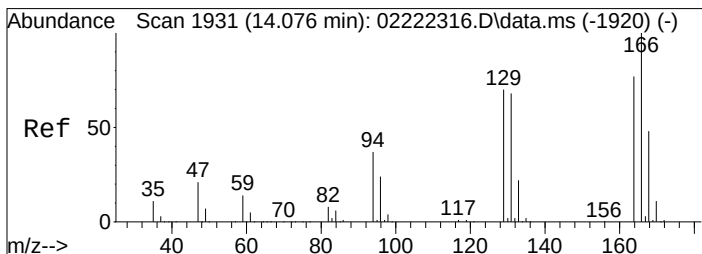
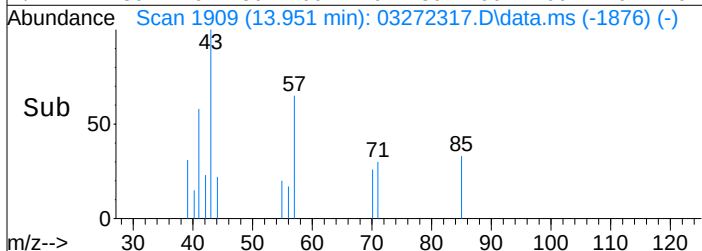
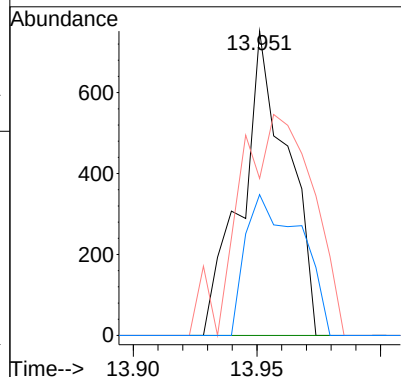
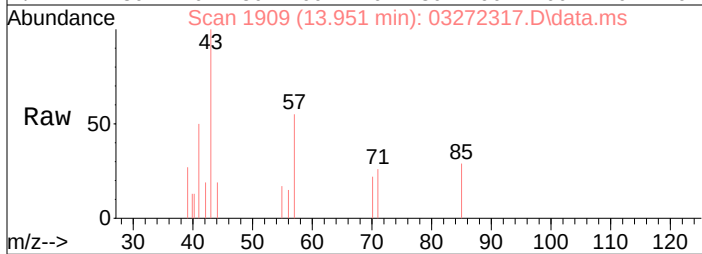
Tgt Ion: 43 Resp: 4763
 Ion Ratio Lower Upper
 43 100
 56 29.2 20.0 60.0
 73 13.0 0.0 33.2





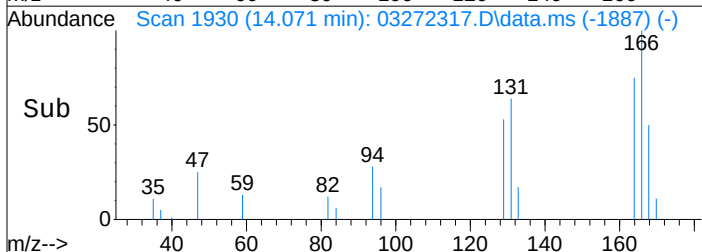
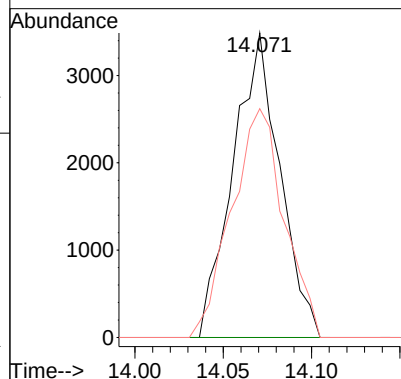
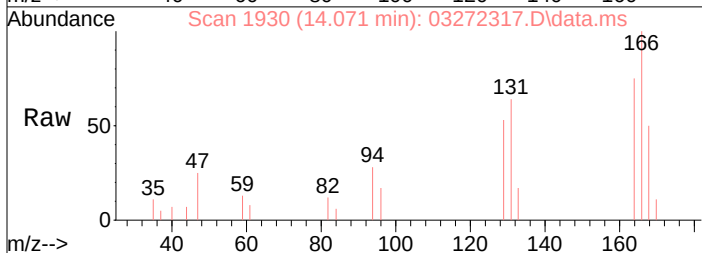
#63
n-Octane
Concen: 0.05 ng
RT: 13.95 min Scan# 1909
Delta R.T. -0.011 min
Lab File: 03272317.D
Acq: 27 Mar 2023 13:31

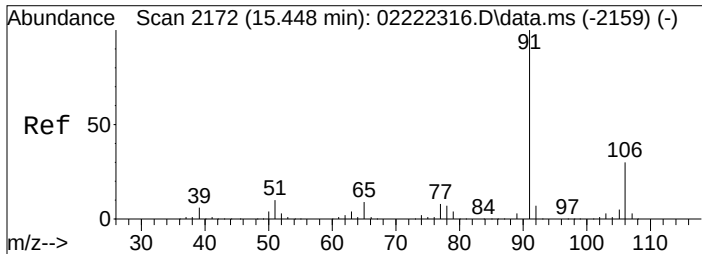
Tgt Ion	Ratio	Lower	Upper
57	100		
85	117.0	94.1	141.1
71	55.1	52.6	79.0



#64
Tetrachloroethene
Concen: 0.21 ng
RT: 14.07 min Scan# 1930
Delta R.T. -0.006 min
Lab File: 03272317.D
Acq: 27 Mar 2023 13:31

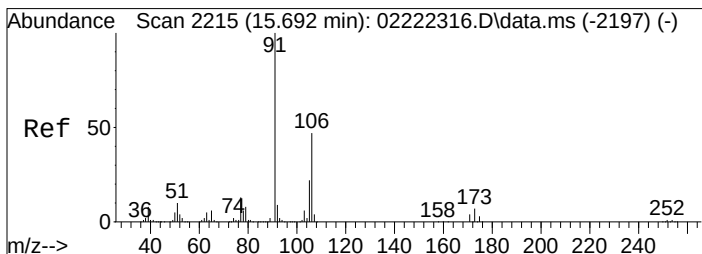
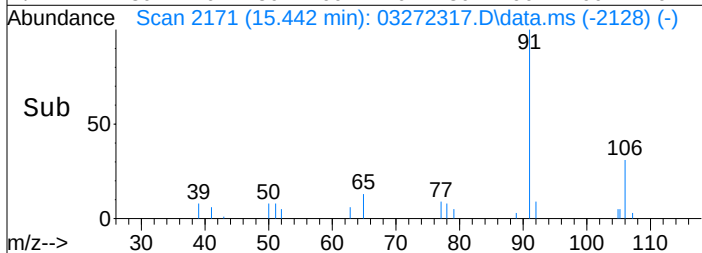
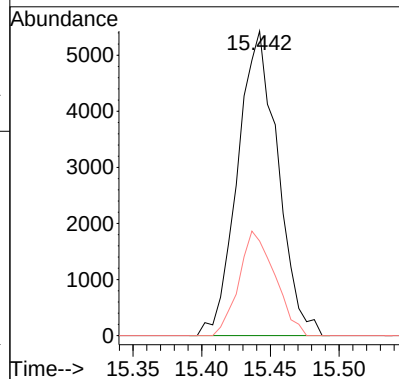
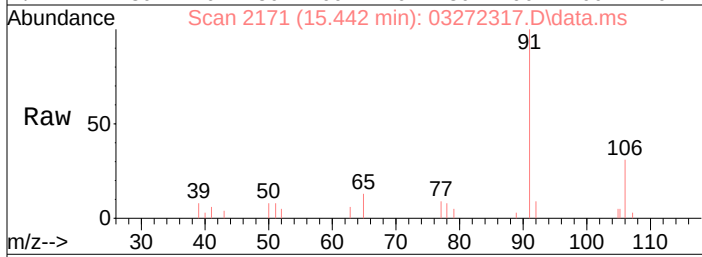
Tgt Ion	Ratio	Lower	Upper
166	100		
164	84.5	57.3	97.3





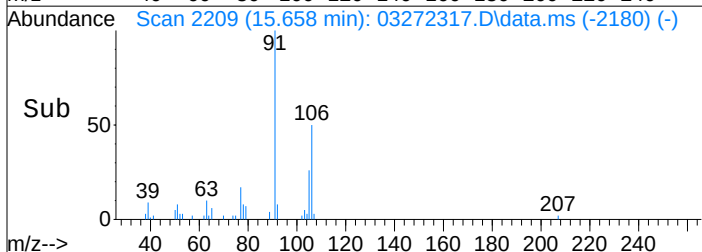
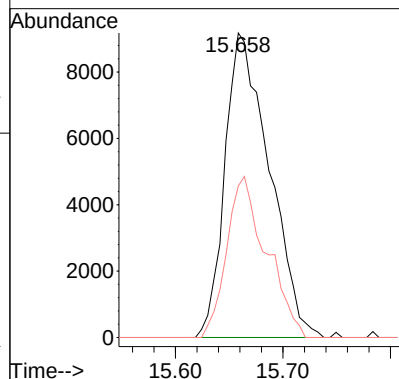
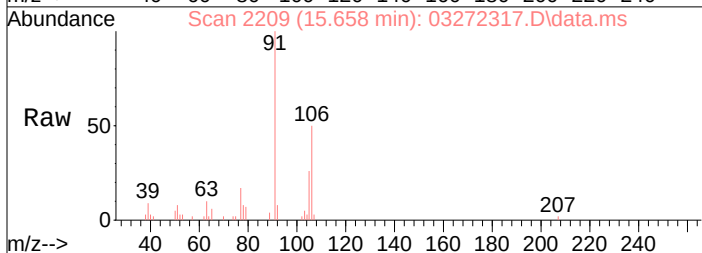
#66
 Ethylbenzene
 Concen: 0.09 ng
 RT: 15.44 min Scan# 2171
 Delta R.T. -0.006 min
 Lab File: 03272317.D
 Acq: 27 Mar 2023 13:31

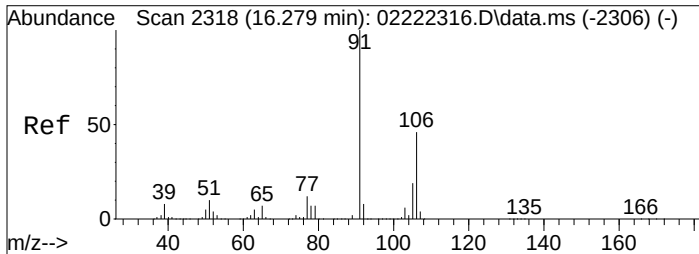
Tgt Ion:	91	Resp:	11044
Ion Ratio	Lower	Upper	
91	100		
106	30.7	10.4	50.4



#67
 m- & p-Xylenes
 Concen: 0.28 ng
 RT: 15.66 min Scan# 2209
 Delta R.T. -0.034 min
 Lab File: 03272317.D
 Acq: 27 Mar 2023 13:31

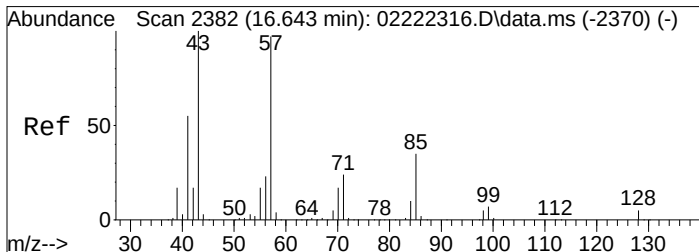
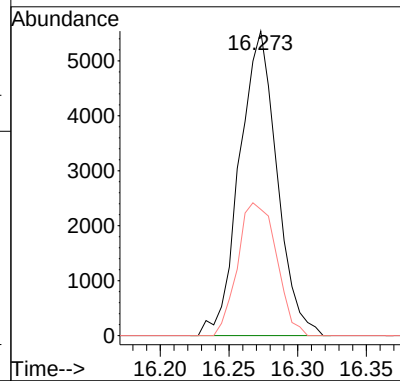
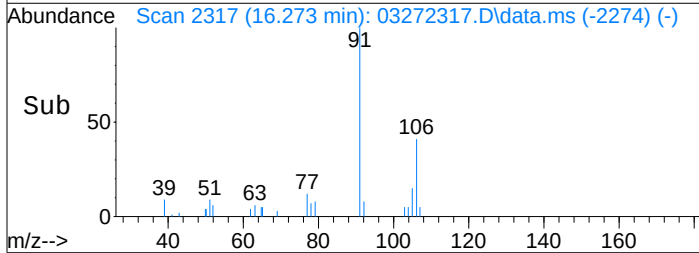
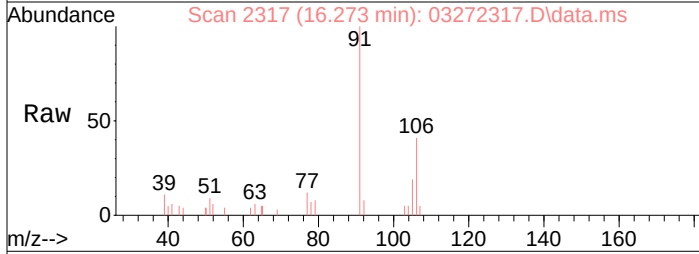
Tgt Ion:	91	Resp:	26262
Ion Ratio	Lower	Upper	
91	100		
106	47.4	26.2	66.2





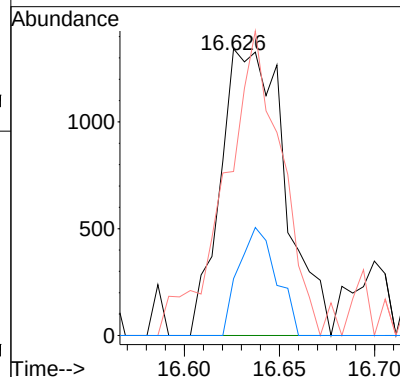
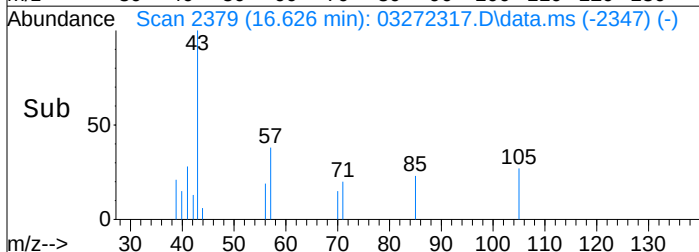
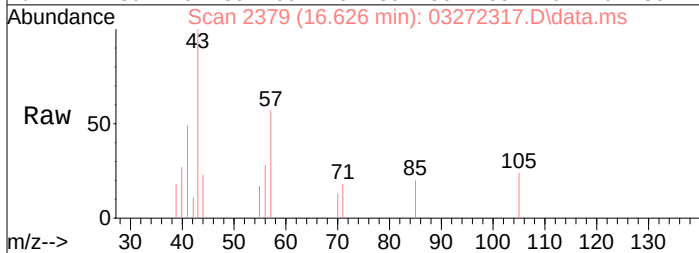
#70
o-Xylene
Concen: 0.12 ng
RT: 16.27 min Scan# 2317
Delta R.T. -0.006 min
Lab File: 03272317.D
Acq: 27 Mar 2023 13:31

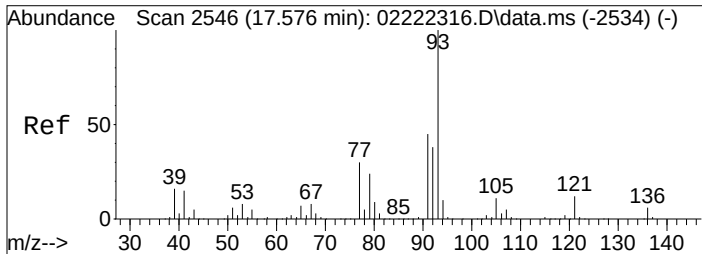
Tgt Ion: 91 Resp: 10522
Ion Ratio Lower Upper
91 100
106 45.0 25.4 65.4



#71
n-Nonane
Concen: 0.07 ng
RT: 16.63 min Scan# 2379
Delta R.T. -0.017 min
Lab File: 03272317.D
Acq: 27 Mar 2023 13:31

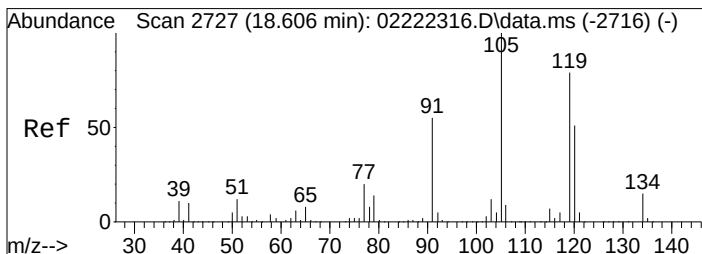
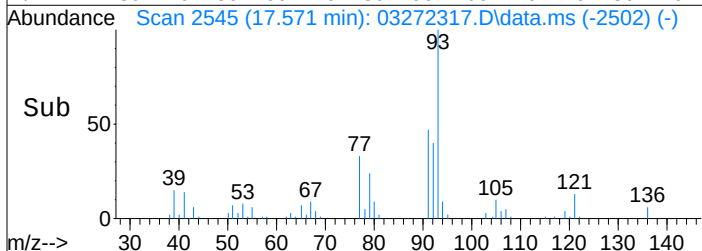
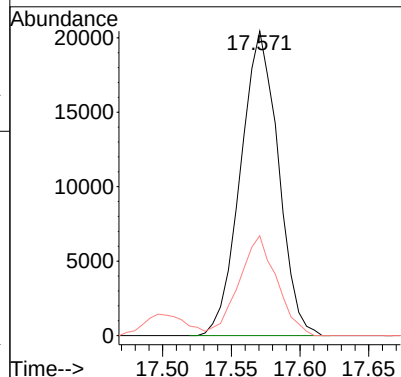
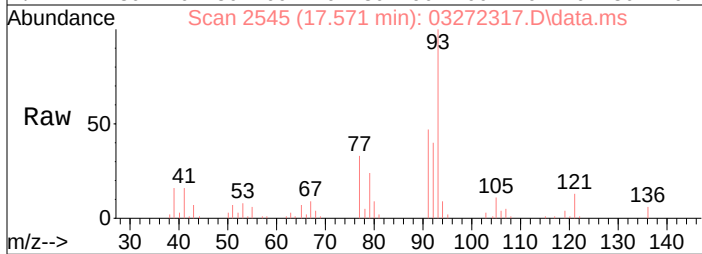
Tgt Ion: 43 Resp: 3158
Ion Ratio Lower Upper
43 100
57 93.0 74.2 114.2
85 22.2 14.2 54.2





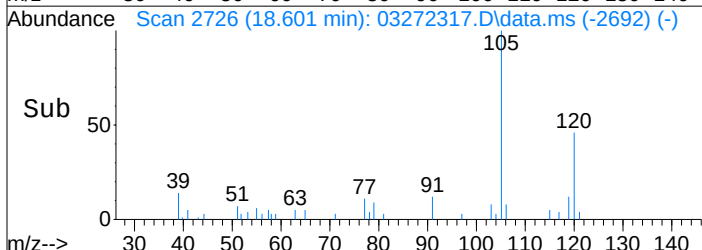
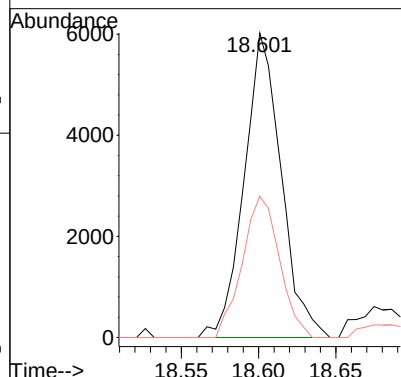
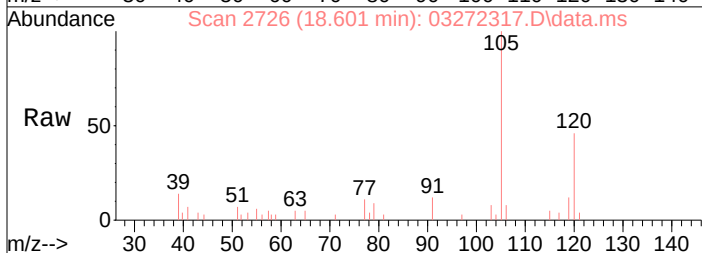
#75
 alpha-Pinene
 Concen: 0.77 ng
 RT: 17.57 min Scan# 2545
 Delta R.T. -0.006 min
 Lab File: 03272317.D
 Acq: 27 Mar 2023 13:31

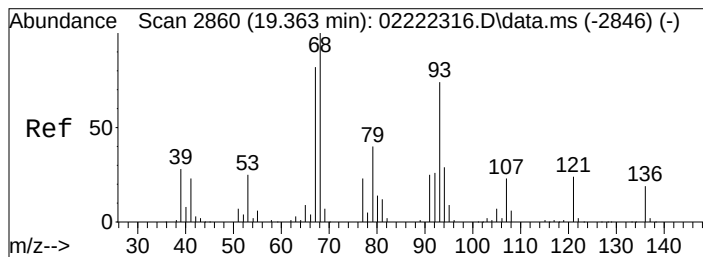
Tgt Ion:	93	Resp:	39045
Ion Ratio	Lower	Upper	
93	100		
77	33.0	11.1	51.1



#82
 1,2,4-Trimethylbenzene
 Concen: 0.11 ng
 RT: 18.60 min Scan# 2726
 Delta R.T. -0.006 min
 Lab File: 03272317.D
 Acq: 27 Mar 2023 13:31

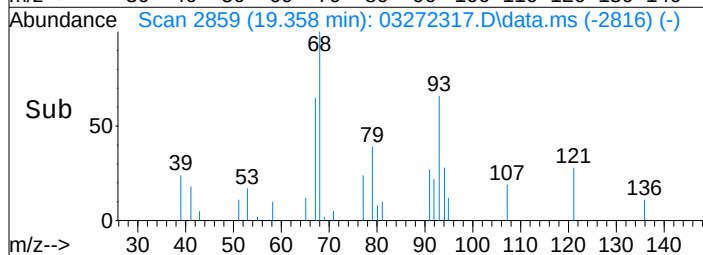
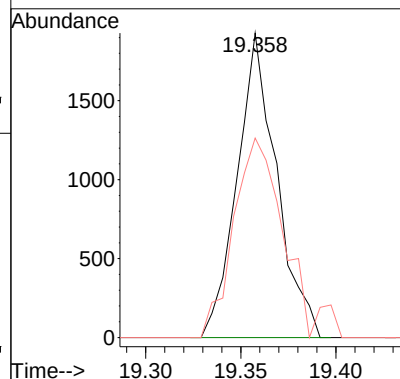
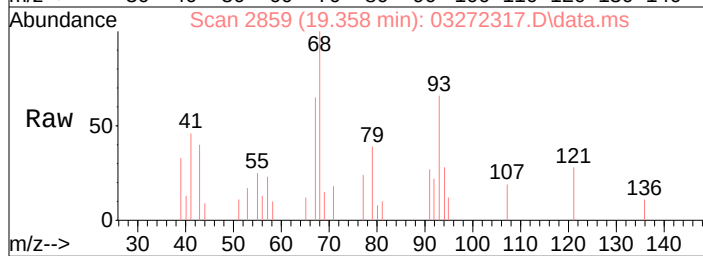
Tgt Ion:	105	Resp:	10051
Ion Ratio	Lower	Upper	
105	100		
120	46.6	32.8	72.8





#91
d-Limonene
Concen: 0.09 ng
RT: 19.36 min Scan# 2859
Delta R.T. -0.006 min
Lab File: 03272317.D
Acq: 27 Mar 2023 13:31

Tgt Ion: 68 Resp: 2778
Ion Ratio Lower Upper
68 100
93 85.0 54.8 94.8



Data File : I:\MS13\DATA\2023_03\27\03272317.D
 Acq On : 27 Mar 2023 13:31
 Sample : P2301250-030 (1000mL)
 Misc : S35-01202301

Vial: 4
 Operator: TZ
 Inst : MS13

T2 3/28/23

Quant Time: Mar 28 11:18:03 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

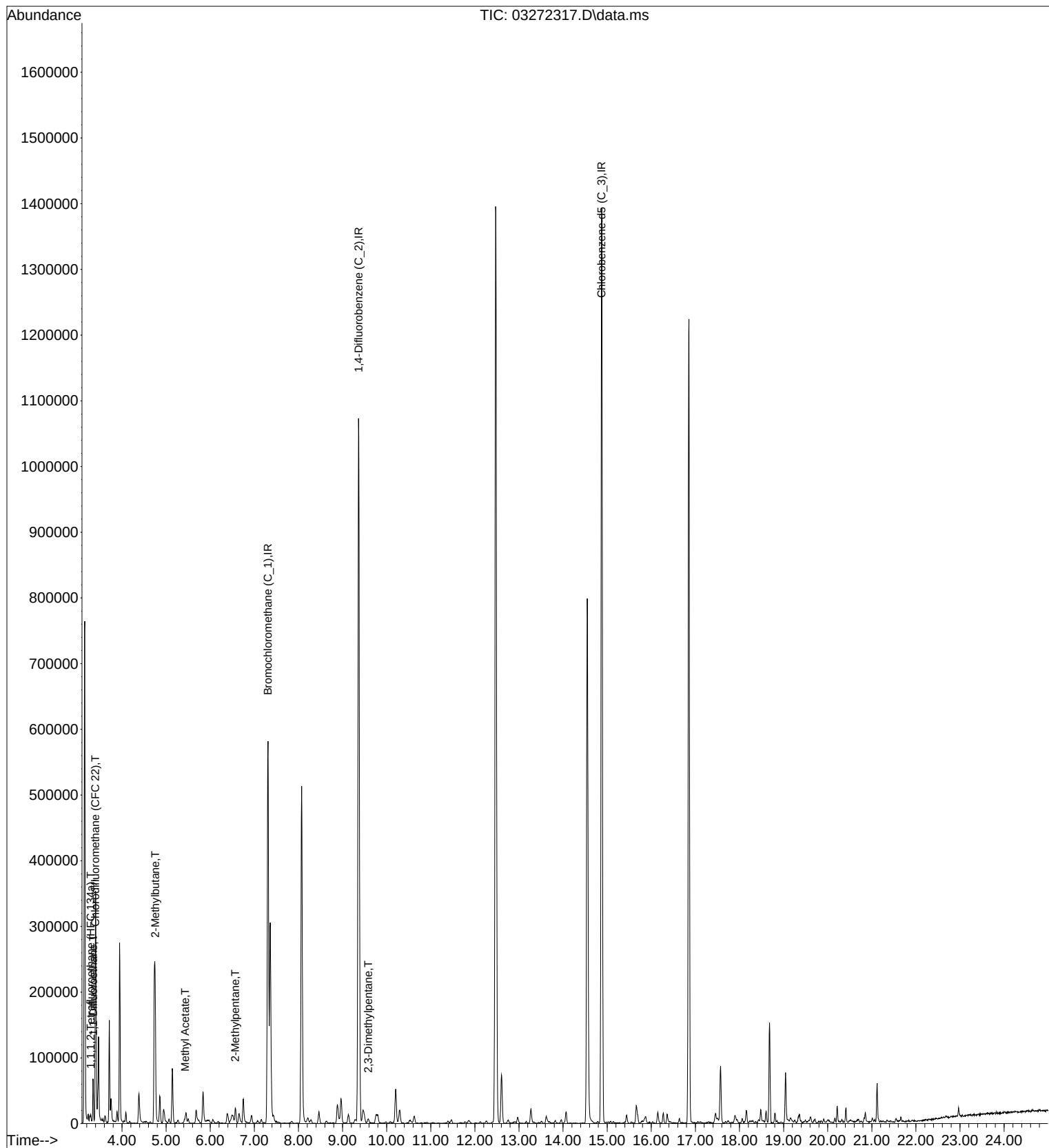
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.31	130	241103	12.500	ng	-0.01
16) 1,4-Difluorobenzene (C_2)	9.36	114	1067775	12.500	ng	-0.02
19) Chlorobenzene-d5 (C_3)	14.87	54	201732	12.500	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.22	85	764	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.29	83	5496	0.283	ng	# 69
4) 1,1-Difluoroethane	3.35	65	21328	1.290	ng	98
5) Chlorodifluoromethane ...	3.39	67	2901	0.493	ng	90
6) 1-Chloro-1,1-Difluoroe...	3.61	65	3005	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	4.75	57	41018	2.326	ng	# 79
11) Methyl Acetate	5.43	43	7468	0.188	ng	# 68
12) 2-Methylpentane	6.57	71	5294	0.314	ng	81
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	9.14	84	1398	N.D.		
17) 2,3-Dimethylpentane	9.59	56	3317	0.105	ng	# 87
18) Dibromomethane	9.86	174	481	N.D.		
20) Methyl Cyclohexane	11.48	55	2415	N.D.		
21) 1,3-Dichloropropane	12.59	76	166	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	0.00	91	0	N.D.		
24) 1,2,3-Trichloropropane	16.42	75	60	N.D.		
25) Bromobenzene	17.06	77	157	N.D.		
26) 2-Chlorotoluene	17.67	91	113	N.D.		
27) 4-Chlorotoluene	17.75	91	3700	N.D.		
28) Indane	19.39	117	1028	N.D.		
29) Indene	19.39	115	144	N.D.		
30) 1,2,4,5-Tetramethylben...	20.69	119	1923	N.D.		
31) 1,2,3,4-Tetramethylben...	20.69	119	1923	N.D.		
32) 1,2,3,5-Tetramethylben...	21.14	119	874	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Vial: 4
Operator: TZ
Inst : MS13

Quant Time: Mar 28 11:18:03 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG2-1

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-031

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02204

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.32 Final Pressure (psig): 3.80

Container Dilution Factor: 1.38

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	0.73	0.12	0.48	0.15	0.024	
74-87-3	Chloromethane	0.36	0.29	0.12	0.17	0.14	0.057	
75-01-4	Vinyl Chloride	ND	0.15	0.079	ND	0.059	0.031	
74-83-9	Bromomethane	ND	0.29	0.10	ND	0.075	0.026	
75-00-3	Chloroethane	ND	0.29	0.091	ND	0.11	0.035	
67-64-1	Acetone	5.6	7.3	1.7	2.3	3.1	0.70	J
75-69-4	Trichlorofluoromethane	1.6	0.72	0.11	0.28	0.13	0.020	
75-35-4	1,1-Dichloroethene	ND	0.15	0.10	ND	0.038	0.026	
75-09-2	Methylene Chloride	0.36	0.73	0.21	0.10	0.21	0.060	J
76-13-1	Trichlorotrifluoroethane	0.49	0.75	0.10	0.064	0.097	0.014	J
75-15-0	Carbon Disulfide	ND	1.5	0.22	ND	0.47	0.071	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	0.10	ND	0.038	0.026	
75-34-3	1,1-Dichloroethane	ND	0.15	0.11	ND	0.038	0.027	
1634-04-4	Methyl tert-Butyl Ether	ND	0.75	0.087	ND	0.21	0.024	
78-93-3	2-Butanone (MEK)	0.93	1.4	0.15	0.32	0.49	0.051	J
156-59-2	cis-1,2-Dichloroethene	0.25	0.15	0.10	0.063	0.038	0.026	
67-66-3	Chloroform	0.18	0.15	0.098	0.037	0.031	0.020	
107-06-2	1,2-Dichloroethane	ND	0.15	0.081	ND	0.038	0.020	
71-55-6	1,1,1-Trichloroethane	0.31	0.15	0.091	0.058	0.028	0.017	
71-43-2	Benzene	0.85	0.15	0.11	0.26	0.048	0.033	
56-23-5	Carbon Tetrachloride	0.46	0.15	0.10	0.073	0.024	0.016	
110-82-7	Cyclohexane	ND	1.4	0.21	ND	0.42	0.060	
78-87-5	1,2-Dichloropropane	ND	0.15	0.091	ND	0.033	0.020	
75-27-4	Bromodichloromethane	ND	0.15	0.11	ND	0.023	0.016	
79-01-6	Trichloroethene	0.92	0.15	0.099	0.17	0.028	0.018	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG2-1

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-031

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02204

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.32 Final Pressure (psig): 3.80

Container Dilution Factor: 1.38

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.75	0.11	ND	0.16	0.025	
108-10-1	4-Methyl-2-pentanone	0.15	1.5	0.10	0.036	0.37	0.025	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.70	0.15	ND	0.16	0.033	
79-00-5	1,1,2-Trichloroethane	ND	0.15	0.075	ND	0.028	0.014	
108-88-3	Toluene	1.2	0.73	0.090	0.32	0.19	0.024	
591-78-6	2-Hexanone	0.20	1.5	0.091	0.050	0.37	0.022	J
124-48-1	Dibromochloromethane	ND	0.15	0.097	ND	0.018	0.011	
106-93-4	1,2-Dibromoethane	ND	0.15	0.086	ND	0.020	0.011	
127-18-4	Tetrachloroethene	0.24	0.15	0.095	0.036	0.022	0.014	
108-90-7	Chlorobenzene	ND	0.73	0.098	ND	0.16	0.021	
100-41-4	Ethylbenzene	0.23	0.73	0.10	0.052	0.17	0.024	J
179601-23-1	m,p-Xylenes	0.74	1.5	0.19	0.17	0.35	0.044	J
75-25-2	Bromoform	ND	0.75	0.15	ND	0.072	0.015	
100-42-5	Styrene	ND	0.73	0.12	ND	0.17	0.028	
95-47-6	o-Xylene	0.33	0.73	0.11	0.075	0.17	0.024	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	0.10	ND	0.022	0.015	
98-82-8	Cumene	ND	0.75	0.11	ND	0.15	0.022	
541-73-1	1,3-Dichlorobenzene	ND	0.73	0.11	ND	0.12	0.018	
106-46-7	1,4-Dichlorobenzene	ND	0.73	0.11	ND	0.12	0.019	
95-50-1	1,2-Dichlorobenzene	ND	0.75	0.11	ND	0.12	0.018	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.5	0.14	ND	0.16	0.014	
120-82-1	1,2,4-Trichlorobenzene	ND	1.5	0.18	ND	0.20	0.024	
79-20-9	Methyl Acetate	0.38	0.69	0.33	0.12	0.23	0.11	J, X
108-87-2	Methylcyclohexane	ND	0.69	0.36	ND	0.17	0.089	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS13\DATA\2023_03\27\03272318.D
 Acq On : 27 Mar 2023 14:08
 Sample : P2301250-031 (1000mL)
 Misc : S35-01202301

Vial: 5
 Operator: TZ
 Inst : MS13

Tz 3/28/23

Quant Time: Mar 28 11:12:39 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.31	130	231388	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	9.37	114	1030024	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.88	54	196384	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.07	65	406274	13.231	ng	-0.04
Spiked Amount	12.500	Range	70 - 130	Recovery	=	105.84%
57) Toluene-d8 (SS2)	12.48	98	1181615	11.700	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.60%
73) Bromofluorobenzene (SS3)	16.85	174	438295	11.849	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.80%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	3.47	85	73470	1.734	ng	99
4) Chloromethane	3.60	50	7928	0.259	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	3.72	135	1319	0.062	ng	100
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	3.88	54	329	N.D.		
8) Bromomethane	4.13	94	250	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	4.39	45	37382	2.275	ng	96
11) Acetonitrile	4.54	41	3473	0.081	ng	# 45
12) Acrolein	4.64	56	1777	0.131	ng	100
13) Acetone	4.73	58	56533	4.031	ng	# 71
14) Trichlorofluoromethane	4.86	101	43463	1.139	ng	98
15) 2-Propanol (Isopropanol)	4.95	45	17229	0.304	ng	# 57
16) Acrylonitrile	5.10	53	75	N.D.		
17) 1,1-Dichloroethene	5.36	96	118	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.44	84	5334	0.259	ng	97
20) 3-Chloro-1-propene (Al...	5.49	41	1565	N.D.		
21) Trichlorotrifluoroethane	5.68	151	7190	0.358	ng	96
22) Carbon Disulfide	5.70	76	7341	0.090	ng	97
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	6.40	63	2220	0.061	ng	86
25) Methyl tert-Butyl Ether	6.48	73	244	N.D.		
26) Vinyl Acetate	6.52	86	805	0.212	ng	# 59
27) 2-Butanone (MEK)	6.75	72	8380	0.673	ng	# 72
28) cis-1,2-Dichloroethene	7.16	61	5318	0.180	ng	93
29) Diisopropyl Ether	7.35	87	175	N.D.		
30) Ethyl Acetate	7.36	61	32471	3.966	ng	94
31) n-Hexane	7.38	57	10748	0.341	ng	97
32) Chloroform	7.44	83	4828	0.130	ng	99
34) Tetrahydrofuran (THF)	7.86	72	513	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.19	62	1414	0.050	ng	86
38) 1,1,1-Trichloroethane	8.46	97	7779	0.228	ng	99
39) Isopropyl Acetate	9.36	61	29379	No Calib		
40) 1-Butanol	8.89	56	14283	No Calib	#	
41) Benzene	8.97	78	49158	0.613	ng	98
42) Carbon Tetrachloride	9.14	117	10024	0.333	ng	98
43) Cyclohexane	9.30	84	2432	0.083	ng	# 78
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	10.14	83	618	N.D.		
47) Trichloroethene	10.21	130	15654	0.667	ng	95
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.	d	
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS13\DATA\2023_03\27\03272318.D
 Acq On : 27 Mar 2023 14:08
 Sample : P2301250-031 (1000mL)
 Misc : S35-01202301

Vial: 5
 Operator: TZ
 Inst : MS13

Quant Time: Mar 28 11:12:39 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

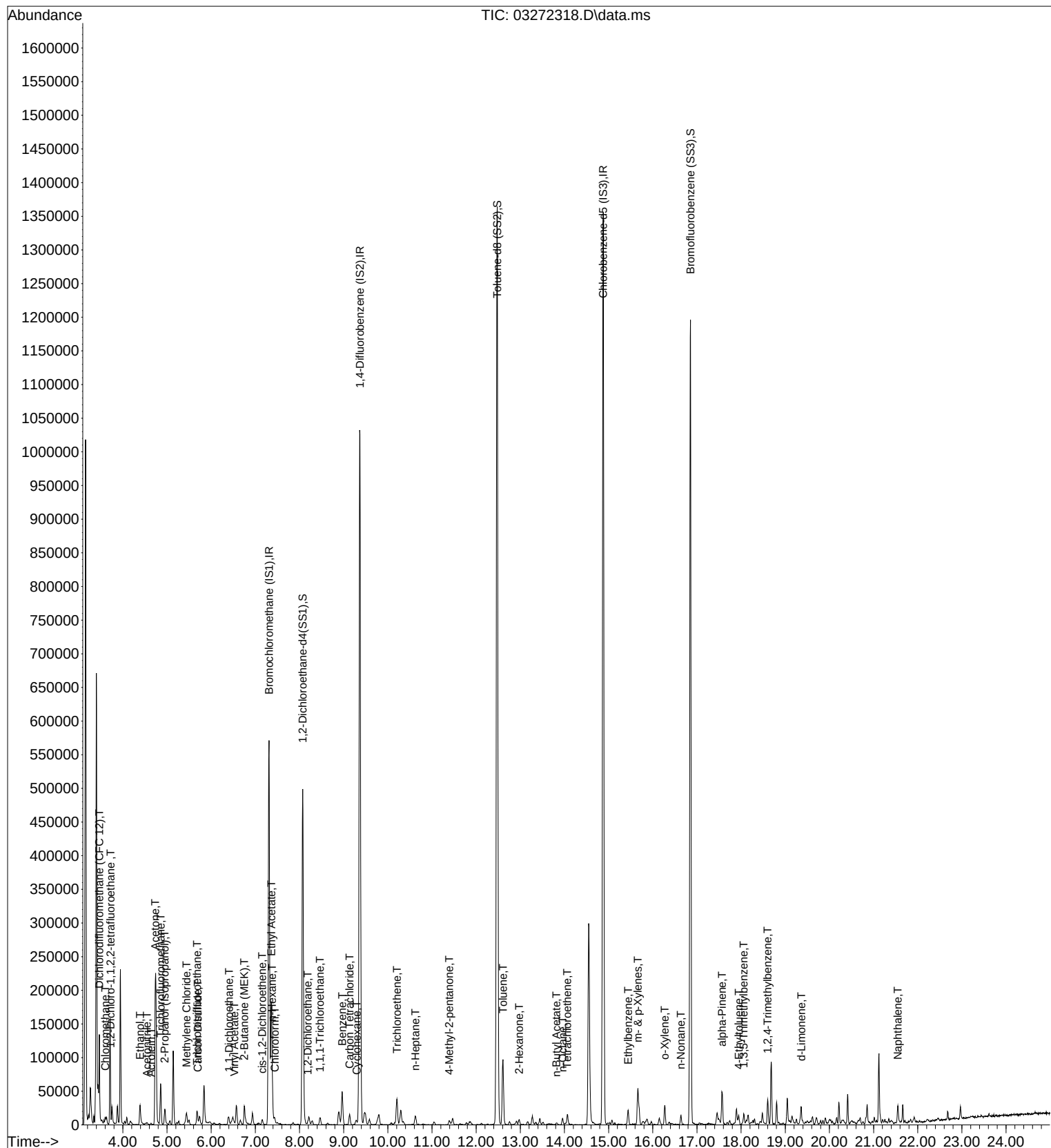
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.63	71	3860	0.199	ng	96
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.39	58	1853	0.107	ng #	67
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.61	91	84178	0.876	ng	99
59) 2-Hexanone	12.97	43	6890	0.148	ng	89
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.82	43	3290	0.062	ng	90
63) n-Octane	13.96	57	1855	0.098	ng	89
64) Tetrachloroethene	14.06	166	5183	0.177	ng	92
65) Chlorobenzene	14.92	112	410	N.D.		
66) Ethylbenzene	15.44	91	18952	0.165	ng	97
67) m- & p-Xylenes	15.66	91	49484	0.536	ng	94
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.14	104	1882	N.D.		
70) o-Xylene	16.27	91	20881	0.237	ng	95
71) n-Nonane	16.64	43	6106	0.143	ng	99
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	17.06	105	2840	N.D.		
75) alpha-Pinene	17.57	93	23271	0.470	ng	97
76) n-Propylbenzene	17.74	91	5906	N.D.		
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	7064	0.069	ng	95
79) 1,3,5-Trimethylbenzene	18.06	105	7481	0.082	ng	100
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.60	105	22207	0.247	ng	88
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	18.76	91	203	N.D.		
85) 1,3-Dichlorobenzene	18.87	146	206	N.D.		
86) 1,4-Dichlorobenzene	18.87	146	206	N.D.		
87) sec-Butylbenzene	18.96	105	1176	N.D.		
88) 4-Isopropyltoluene (p-...	19.18	119	3142	N.D.		
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	19.36	68	5616	0.185	ng	99
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.22	58	1804	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	511	N.D.		
95) Naphthalene	21.55	128	13106	0.135	ng	97
96) n-Dodecane	19.16	58	137	No Calib	#	
97) Hexachlorobutadiene	21.98	225	162	N.D.		
98) Cyclohexanone	15.77	55	714	No Calib	#	
99) tert-Butylbenzene	18.60	119	2847	N.D.		
100) n-Butylbenzene	19.71	91	2952	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\27\03272318.D
Acq On : 27 Mar 2023 14:08
Sample : P2301250-031 (1000mL)
Misc : S35-01202301

Vial: 5
Operator: TZ
Inst : MS13

Quant Time: Mar 28 11:12:39 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\27\03272318.D
 Acq On : 27 Mar 2023 14:08
 Sample : P2301250-031 (1000mL)
 Misc : S35-01202301

Vial: 5
 Operator: TZ
 Inst : MS13

Tz 3/28/23

Quant Time: Mar 28 11:12:39 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.31	130	231388	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	9.37	114	1030024	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.88	54	196384	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.07	65	406274	13.231	ng	-0.04
Spiked Amount	12.500	Range	70 - 130	Recovery	=	105.84%
57) Toluene-d8 (SS2)	12.48	98	1181615	11.700	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.60%
73) Bromofluorobenzene (SS3)	16.85	174	438295	11.849	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.80%

Target Compounds

						Qvalue
3) Dichlorodifluoromethan...	3.47	85	73470	1.734	ng	99
4) Chloromethane	3.60	50	7928	0.259	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	3.72	135	1319	0.062	ng	100
10) Ethanol	4.39	45	37382	2.275	ng	96
11) Acetonitrile	4.54	41	3473	0.081	ng	# 45
12) Acrolein	4.64	56	1777	0.131	ng	100
13) Acetone	4.73	58	56533	4.031	ng	# 71
14) Trichlorofluoromethane	4.86	101	43463	1.139	ng	98
15) 2-Propanol (Isopropanol)	4.95	45	17229	0.304	ng	# 57
19) Methylene Chloride	5.44	84	5334	0.259	ng	97
21) Trichlorotrifluoroethane	5.68	151	7190	0.358	ng	96
22) Carbon Disulfide	5.70	76	7341	0.090	ng	97
24) 1,1-Dichloroethane	6.40	63	2220	0.061	ng	86
26) Vinyl Acetate	6.52	86	805	0.212	ng	# 59
27) 2-Butanone (MEK)	6.75	72	8380	0.673	ng	# 72
28) cis-1,2-Dichloroethene	7.16	61	5318	0.180	ng	93
30) Ethyl Acetate	7.36	61	32471	3.966	ng	94
31) n-Hexane	7.38	57	10748	0.341	ng	97
32) Chloroform	7.44	83	4828	0.130	ng	99
36) 1,2-Dichloroethane	8.19	62	1414	0.050	ng	86
38) 1,1,1-Trichloroethane	8.46	97	7779	0.228	ng	99
41) Benzene	8.97	78	49158	0.613	ng	98
42) Carbon Tetrachloride	9.14	117	10024	0.333	ng	98
43) Cyclohexane	9.30	84	2432	0.083	ng	# 78
47) Trichloroethene	10.21	130	15654	0.667	ng	95
51) n-Heptane	10.63	71	3860	0.199	ng	96
53) 4-Methyl-2-pentanone	11.39	58	1853	0.107	ng	# 67
58) Toluene	12.61	91	84178	0.876	ng	99
59) 2-Hexanone	12.97	43	6890	0.148	ng	89
62) n-Butyl Acetate	13.82	43	3290	0.062	ng	90
63) n-Octane	13.96	57	1855	0.098	ng	89
64) Tetrachloroethene	14.06	166	5183	0.177	ng	92
66) Ethylbenzene	15.44	91	18952	0.165	ng	97
67) m- & p-Xylenes	15.66	91	49484	0.536	ng	94
70) o-Xylene	16.27	91	20881	0.237	ng	95
71) n-Nonane	16.64	43	6106	0.143	ng	99
75) alpha-Pinene	17.57	93	23271	0.470	ng	97
78) 4-Ethyltoluene	17.95	105	7064	0.069	ng	95
79) 1,3,5-Trimethylbenzene	18.06	105	7481	0.082	ng	100
82) 1,2,4-Trimethylbenzene	18.60	105	22207	0.247	ng	88
91) d-Limonene	19.36	68	5616	0.185	ng	99
95) Naphthalene	21.55	128	13106	0.135	ng	97

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

Data File : I:\MS13\DATA\2023_03\27\03272318.D
Acq On : 27 Mar 2023 14:08
Sample : P2301250-031 (1000mL)
Misc : S35-01202301

Vial: 5
Operator: TZ
Inst : MS13

Quant Time: Mar 28 11:12:39 2023

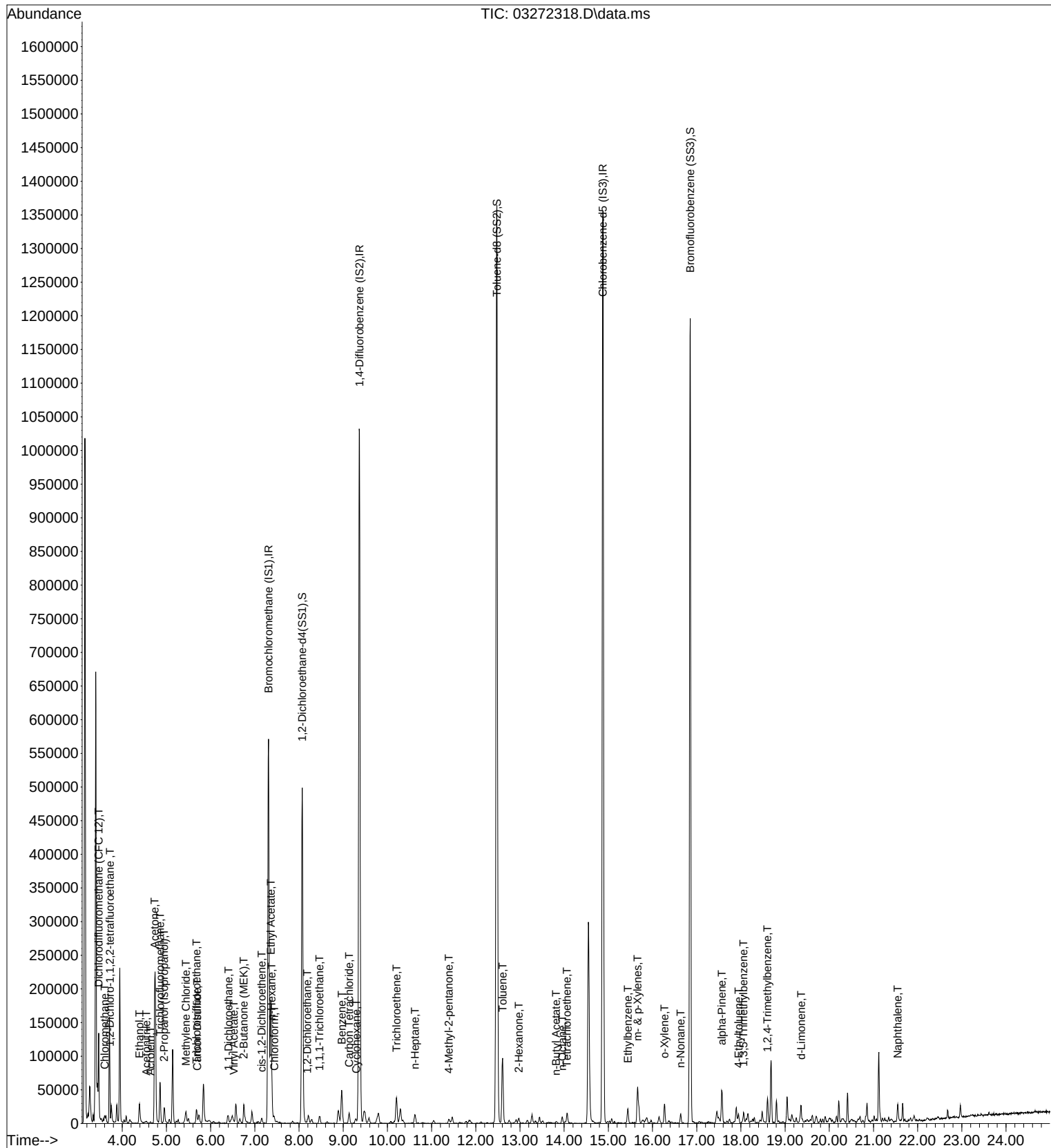
Quant Method : I:\MS13\METHODS\R13022223.M

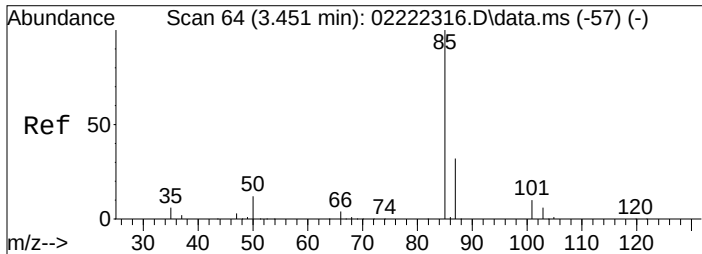
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

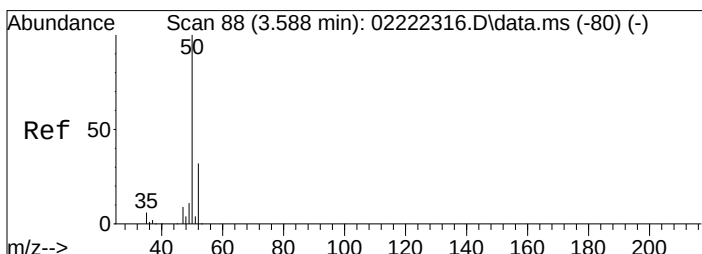
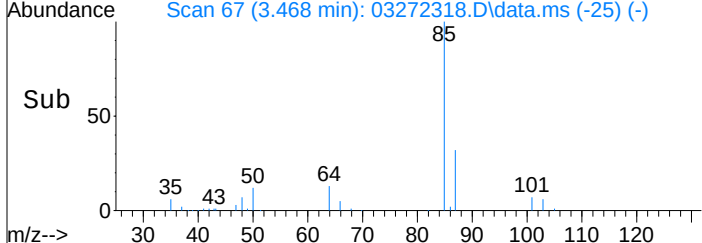
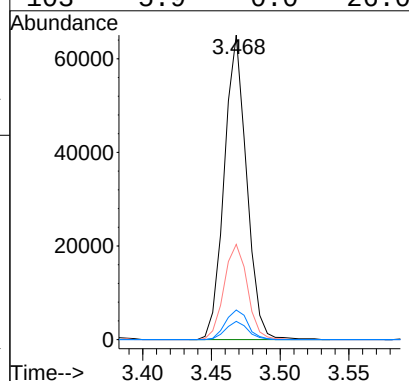
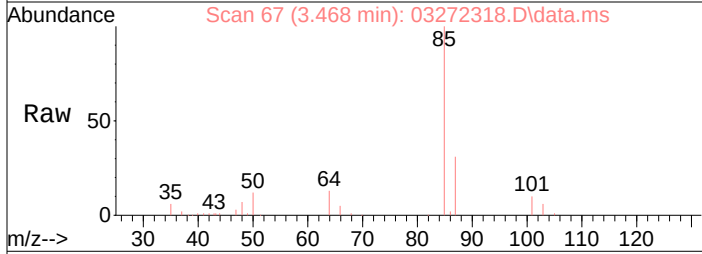
DataAcq Meth:T015.M





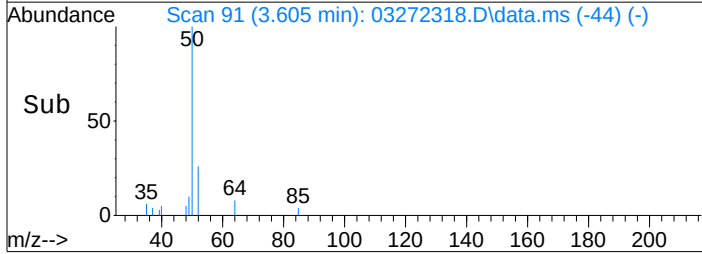
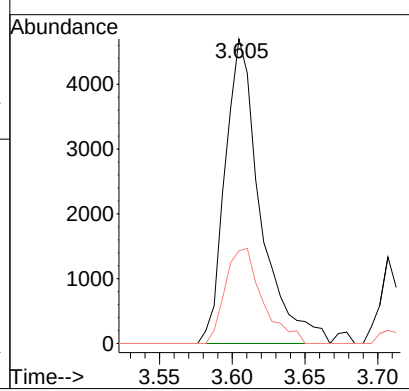
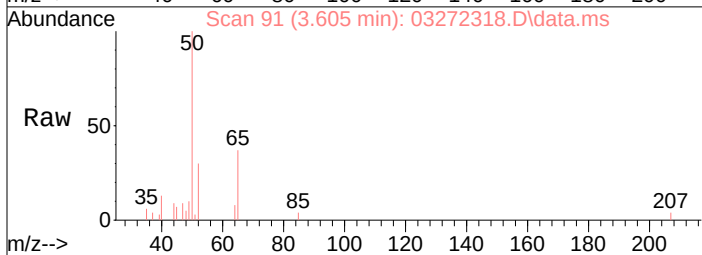
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.73 ng
 RT: 3.47 min Scan# 67
 Delta R.T. -0.010 min
 Lab File: 03272318.D
 Acq: 27 Mar 2023 14:08

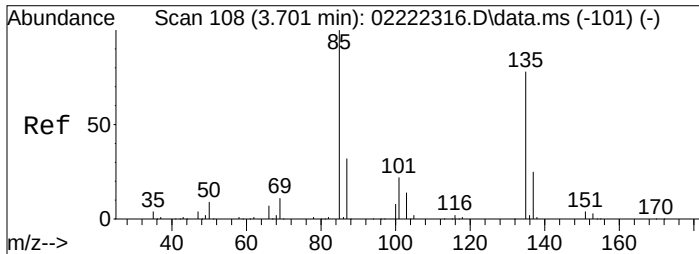
Tgt Ion:	85	Resp:	73470
Ion Ratio		Lower	Upper
85	100		
87	32.8	12.4	52.4
101	9.8	0.0	29.4
103	5.9	0.0	26.0



#4
 Chloromethane
 Concen: 0.26 ng
 RT: 3.60 min Scan# 91
 Delta R.T. 0.017 min
 Lab File: 03272318.D
 Acq: 27 Mar 2023 14:08

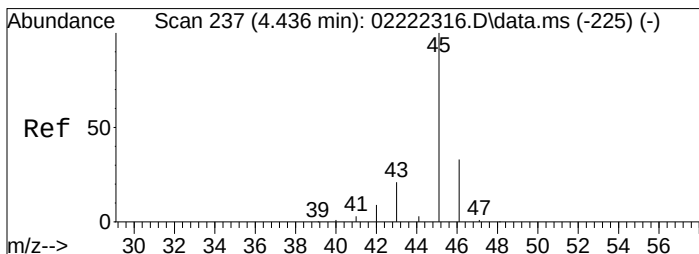
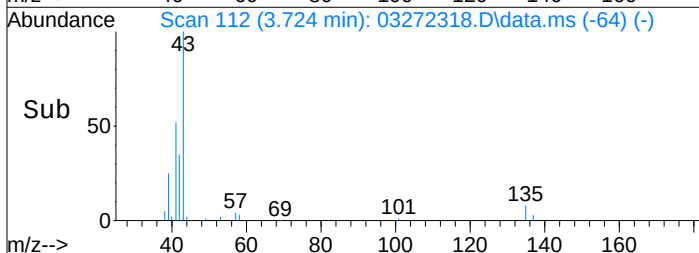
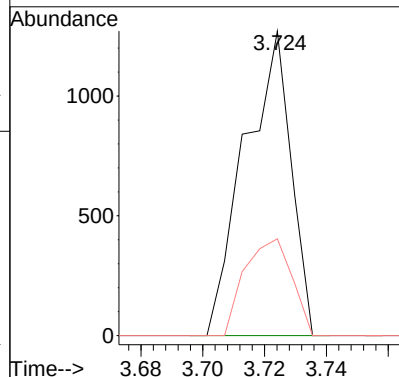
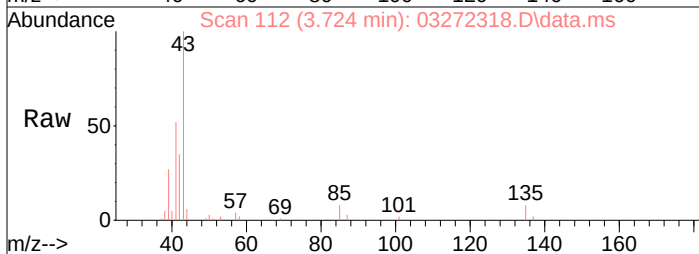
Tgt Ion:	50	Resp:	7928
Ion Ratio		Lower	Upper
50	100		
52	32.8	13.0	53.0





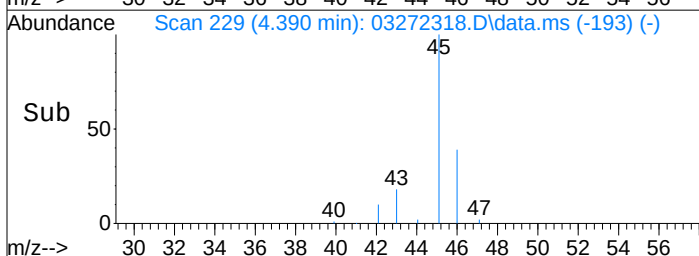
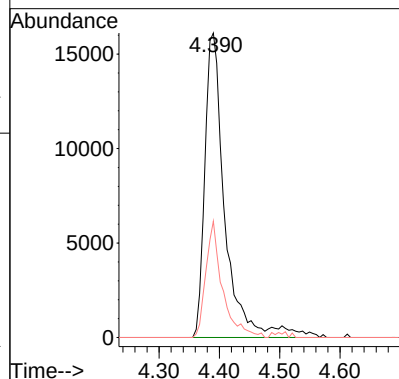
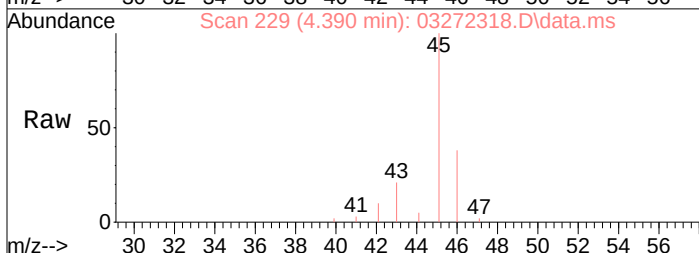
#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.06 ng
 RT: 3.72 min Scan# 112
 Delta R.T. 0.023 min
 Lab File: 03272318.D
 Acq: 27 Mar 2023 14:08

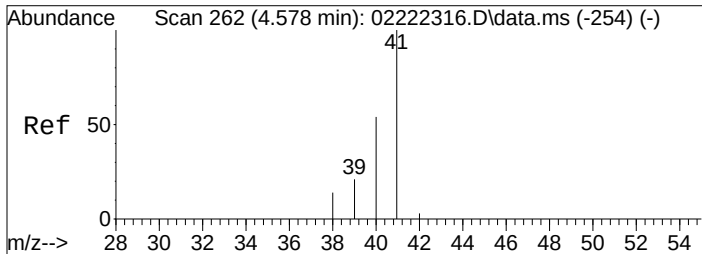
Tgt Ion: 135 Resp: 1319
 Ion Ratio Lower Upper
 135 100
 137 32.4 12.2 52.2



#10
 Ethanol
 Concen: 2.27 ng
 RT: 4.39 min Scan# 229
 Delta R.T. -0.046 min
 Lab File: 03272318.D
 Acq: 27 Mar 2023 14:08

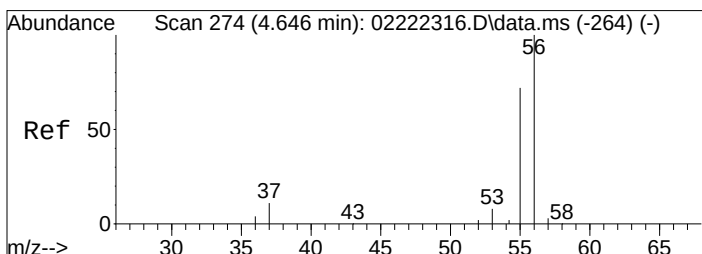
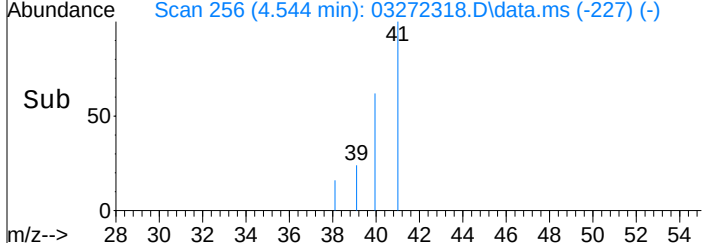
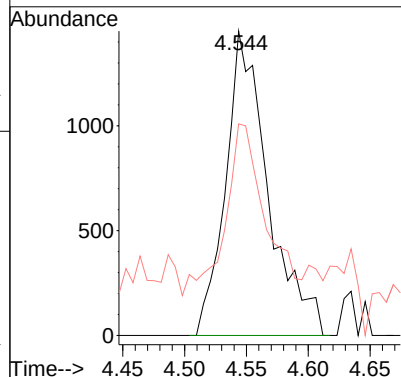
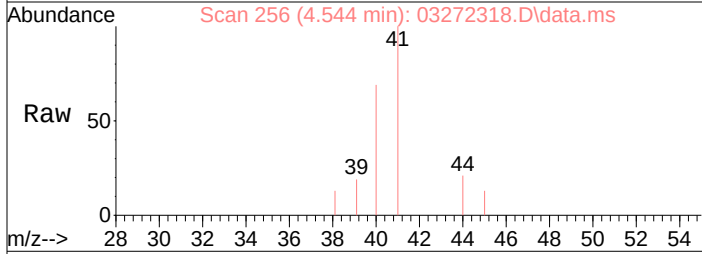
Tgt Ion: 45 Resp: 37382
 Ion Ratio Lower Upper
 45 100
 46 31.6 13.8 53.8





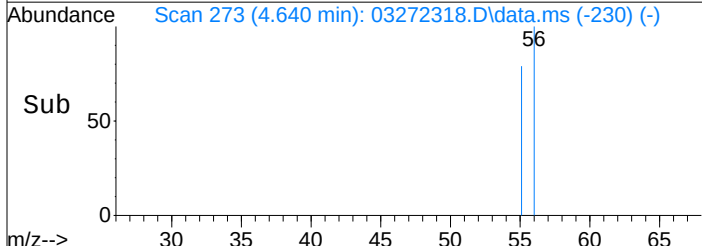
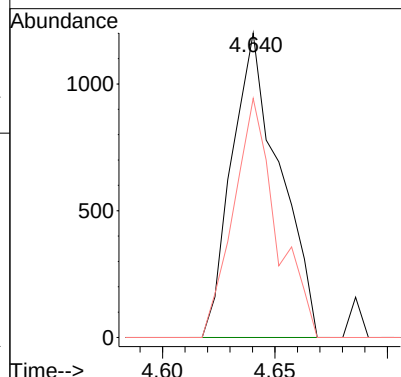
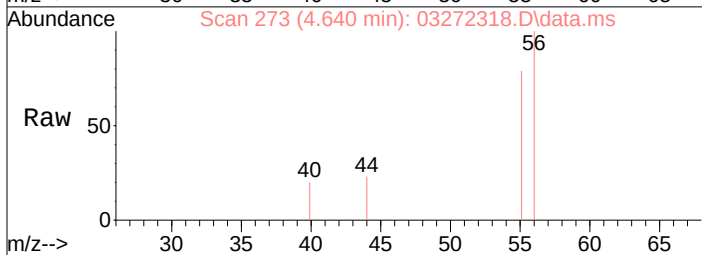
#11
Acetonitrile
Concen: 0.08 ng
RT: 4.54 min Scan# 256
Delta R.T. -0.034 min
Lab File: 03272318.D
Acq: 27 Mar 2023 14:08

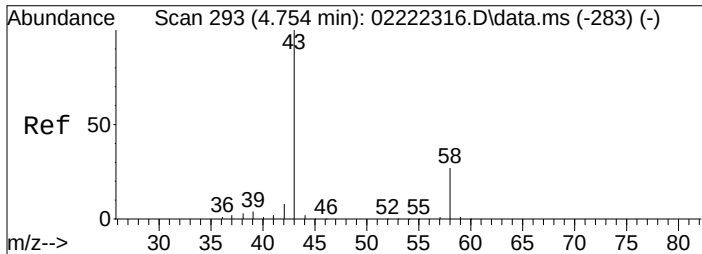
Tgt Ion: 41 Resp: 3473
Ion Ratio Lower Upper
41 100
40 93.8 34.4 74.4#



#12
Acrolein
Concen: 0.13 ng
RT: 4.64 min Scan# 273
Delta R.T. -0.006 min
Lab File: 03272318.D
Acq: 27 Mar 2023 14:08

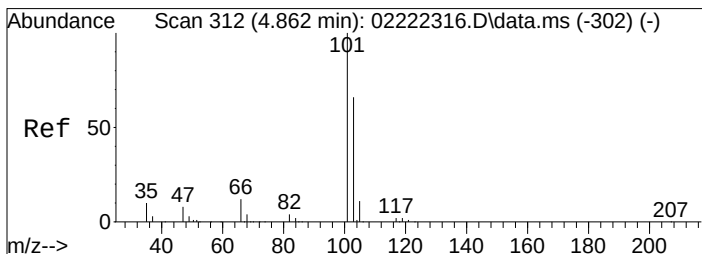
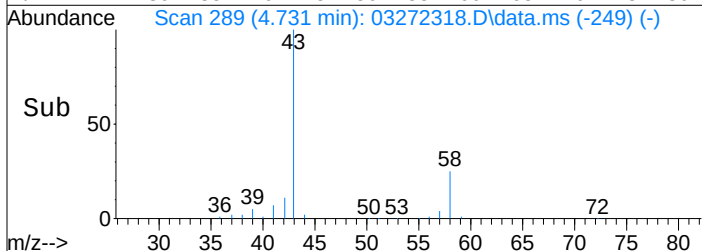
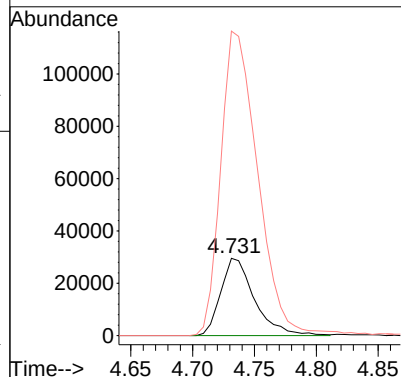
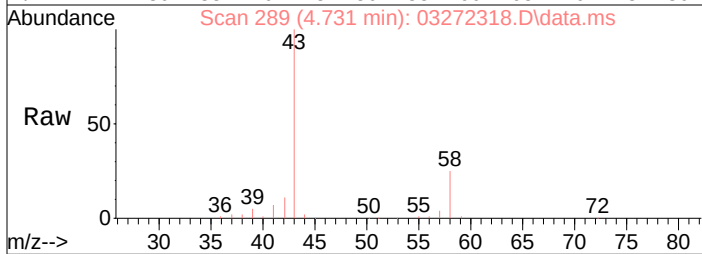
Tgt Ion: 56 Resp: 1777
Ion Ratio Lower Upper
56 100
55 70.8 50.9 90.9





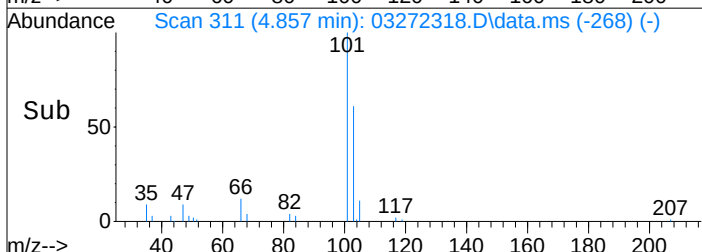
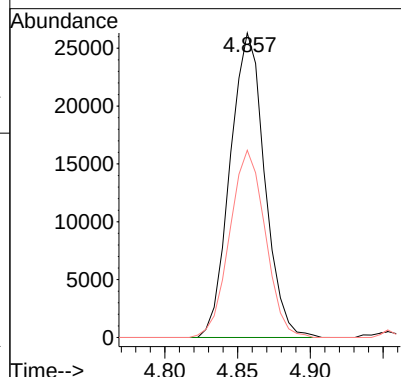
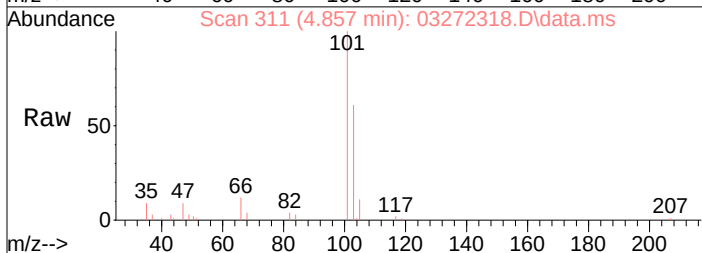
#13
 Acetone
 Concen: 4.03 ng
 RT: 4.73 min Scan# 289
 Delta R.T. -0.023 min
 Lab File: 03272318.D
 Acq: 27 Mar 2023 14:08

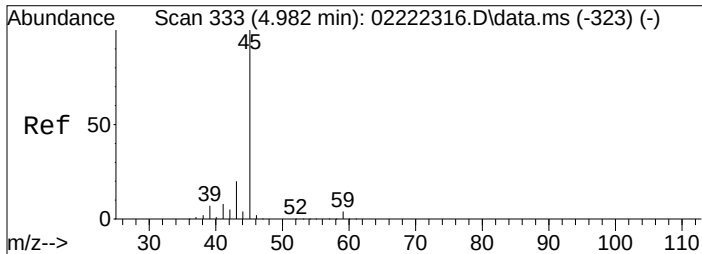
Tgt Ion	58	Resp	56533
Ion Ratio	100	Lower	Upper
43	433.0	337.8	397.8#



#14
 Trichlorofluoromethane
 Concen: 1.14 ng
 RT: 4.86 min Scan# 311
 Delta R.T. -0.006 min
 Lab File: 03272318.D
 Acq: 27 Mar 2023 14:08

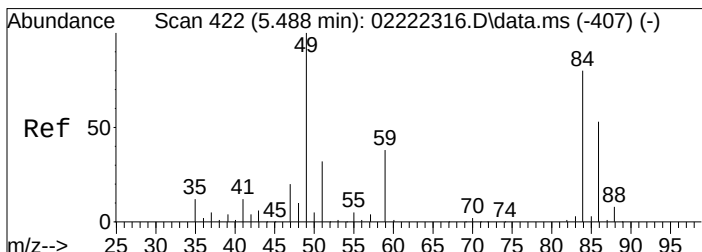
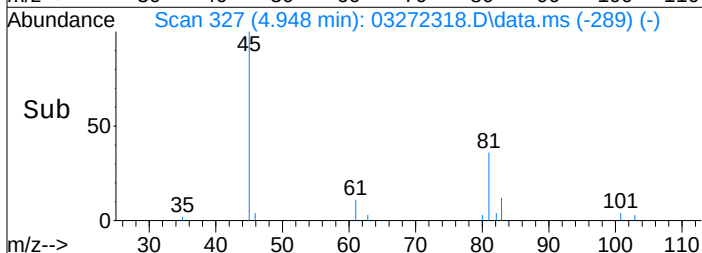
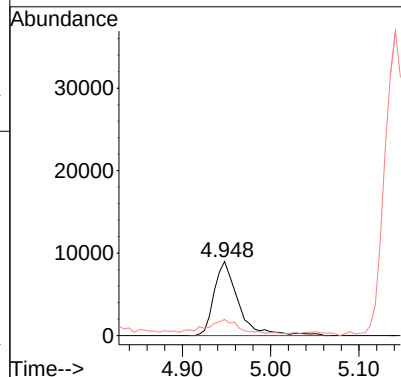
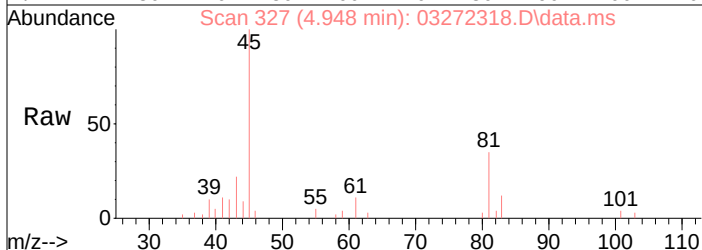
Tgt Ion	101	Resp	43463
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
103	63.3	45.2	85.2





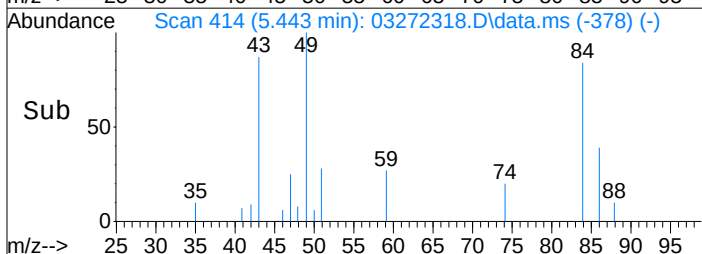
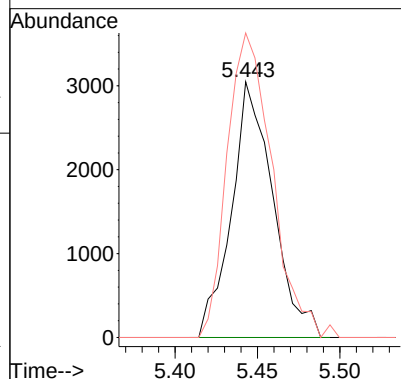
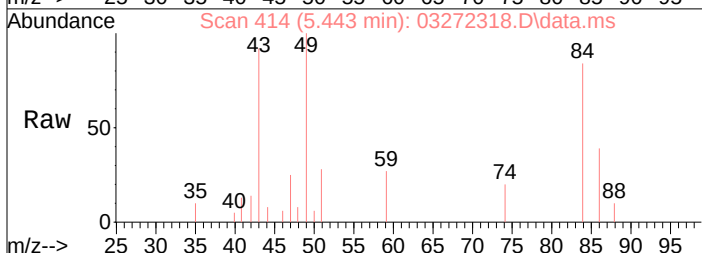
#15
 2-Propanol (Isopropanol)
 Concen: 0.30 ng
 RT: 4.95 min Scan# 327
 Delta R.T. -0.034 min
 Lab File: 03272318.D
 Acq: 27 Mar 2023 14:08

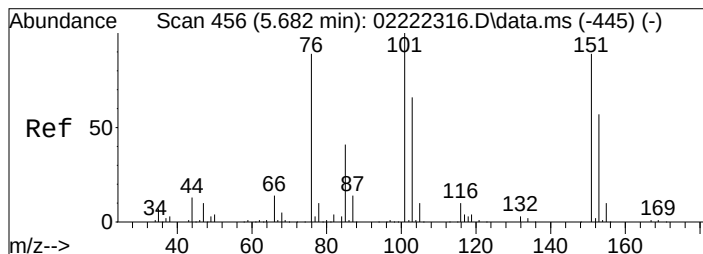
Tgt Ion: 45 Resp: 17229
 Ion Ratio Lower Upper
 45 100
 43 0.0 0.0 39.7



#19
 Methylene Chloride
 Concen: 0.26 ng
 RT: 5.44 min Scan# 414
 Delta R.T. -0.046 min
 Lab File: 03272318.D
 Acq: 27 Mar 2023 14:08

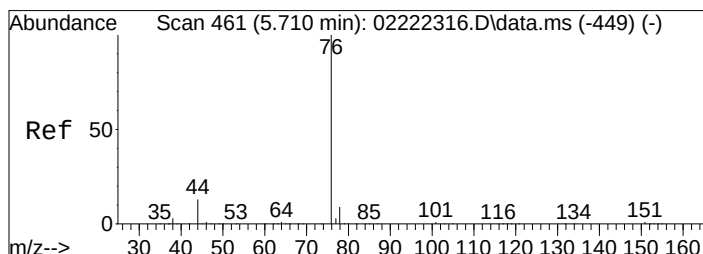
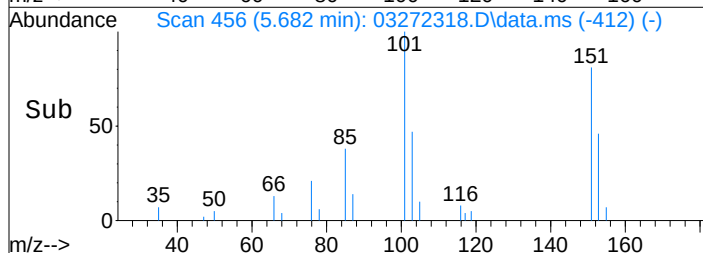
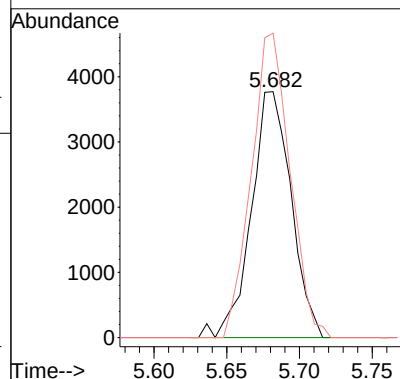
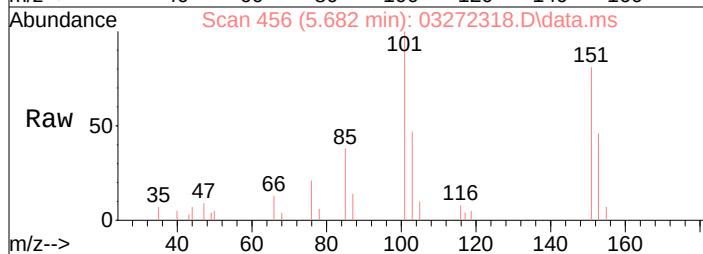
Tgt Ion: 84 Resp: 5334
 Ion Ratio Lower Upper
 84 100
 49 129.2 101.3 151.3





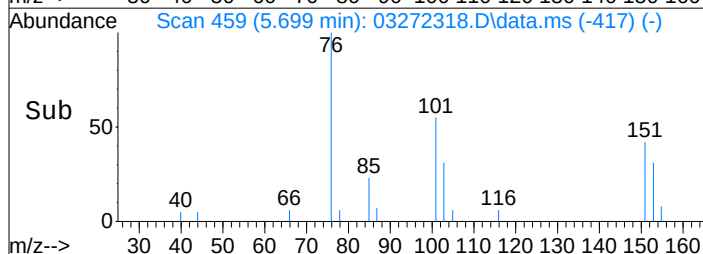
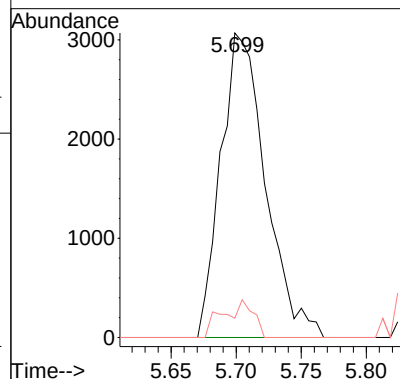
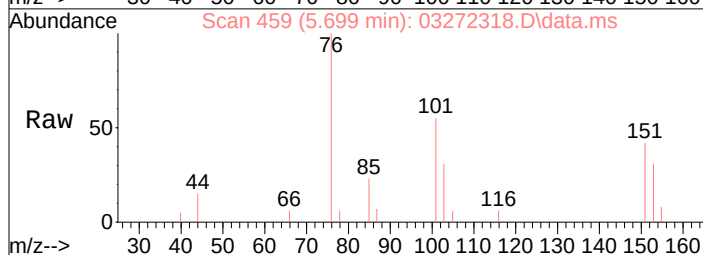
#21
 Trichlorotrifluoroethane
 Concen: 0.36 ng
 RT: 5.68 min Scan# 456
 Delta R.T. -0.000 min
 Lab File: 03272318.D
 Acq: 27 Mar 2023 14:08

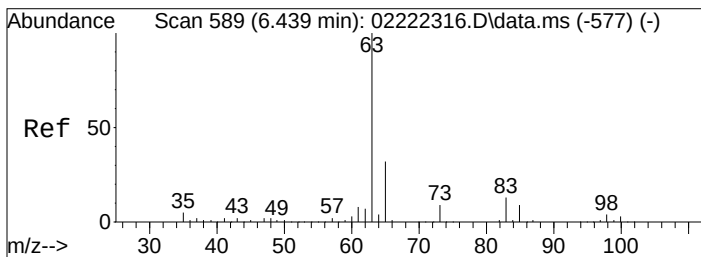
Tgt Ion: 151 Resp: 7190
 Ion Ratio Lower Upper
 151 100
 101 120.1 96.3 136.3



#22
 Carbon Disulfide
 Concen: 0.09 ng
 RT: 5.70 min Scan# 459
 Delta R.T. -0.011 min
 Lab File: 03272318.D
 Acq: 27 Mar 2023 14:08

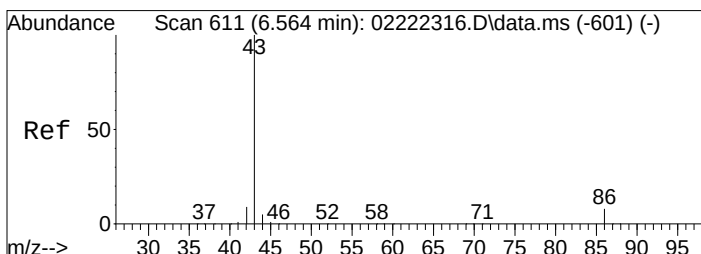
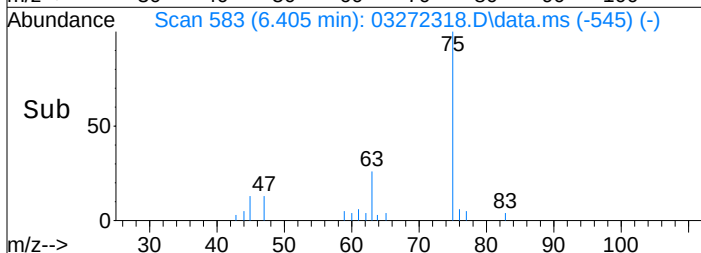
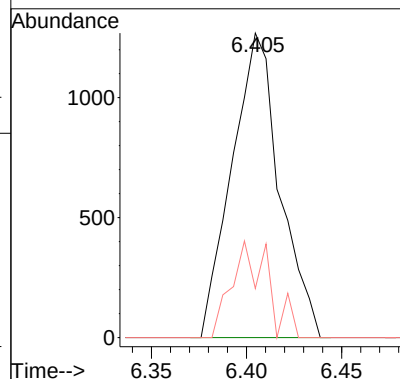
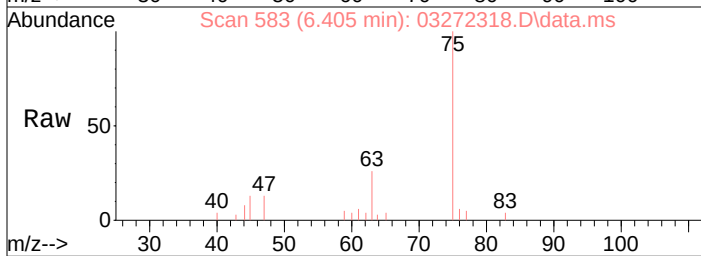
Tgt Ion: 76 Resp: 7341
 Ion Ratio Lower Upper
 76 100
 78 8.4 0.0 29.3





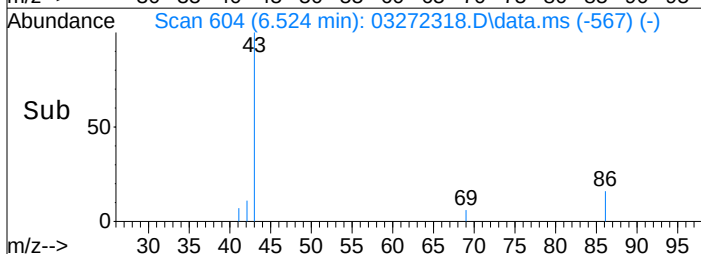
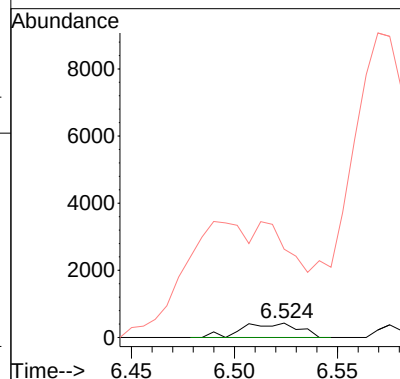
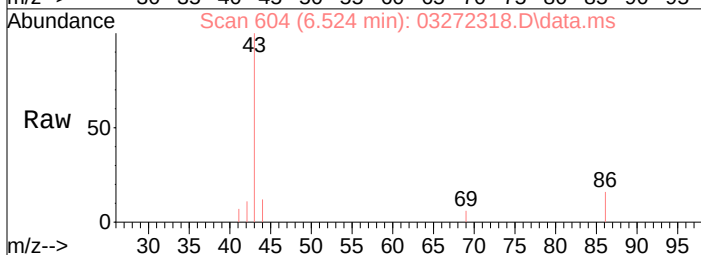
#24
1,1-Dichloroethane
Concen: 0.06 ng
RT: 6.40 min Scan# 583
Delta R.T. -0.034 min
Lab File: 03272318.D
Acq: 27 Mar 2023 14:08

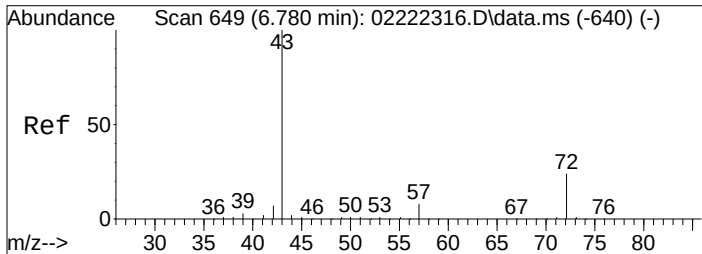
Tgt Ion: 63 Resp: 2220
Ion Ratio Lower Upper
63 100
65 24.2 12.0 52.0



#26
Vinyl Acetate
Concen: 0.21 ng
RT: 6.52 min Scan# 604
Delta R.T. -0.040 min
Lab File: 03272318.D
Acq: 27 Mar 2023 14:08

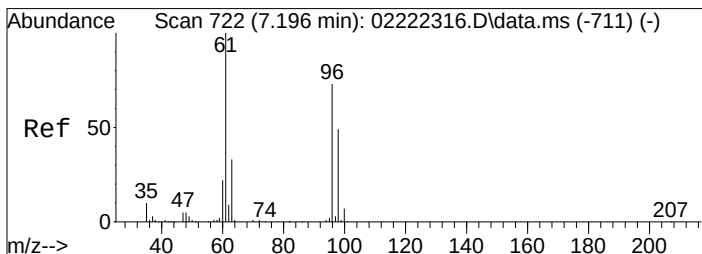
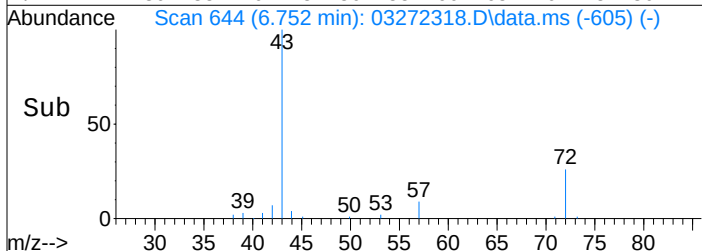
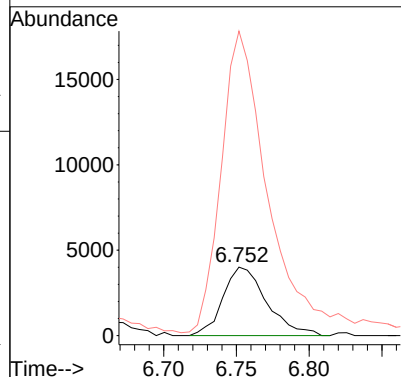
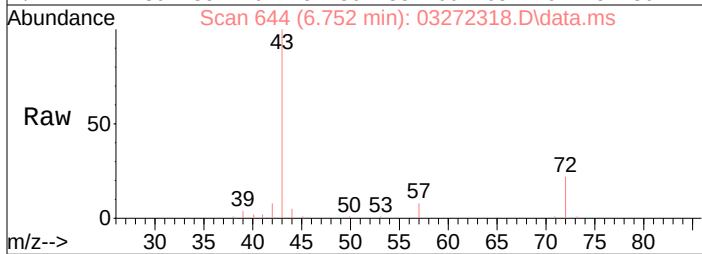
Tgt Ion: 86 Resp: 805
Ion Ratio Lower Upper
86 100
43 1532.8 1292.1 1332.1#





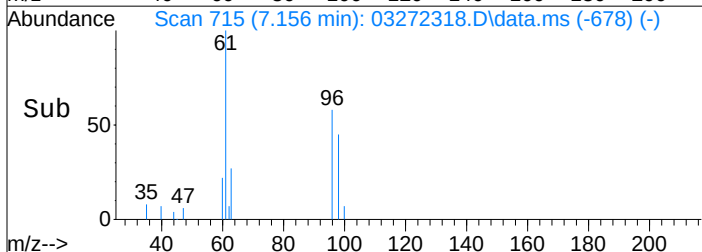
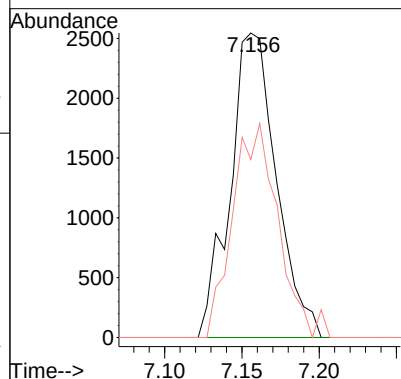
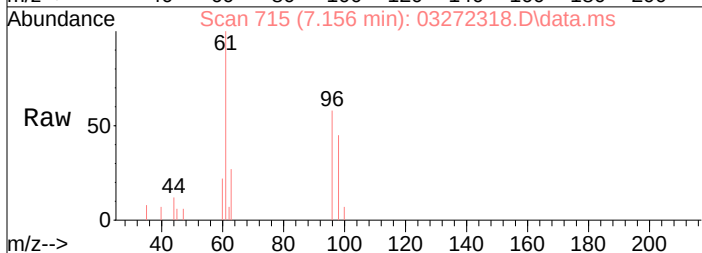
#27
 2-Butanone (MEK)
 Concen: 0.67 ng
 RT: 6.75 min Scan# 644
 Delta R.T. -0.029 min
 Lab File: 03272318.D
 Acq: 27 Mar 2023 14:08

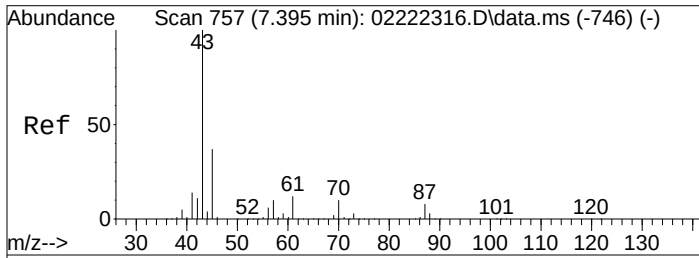
Tgt Ion: 72 Resp: 8380
 Ion Ratio Lower Upper
 72 100
 43 489.7 400.5 440.5#



#28
 cis-1,2-Dichloroethene
 Concen: 0.18 ng
 RT: 7.16 min Scan# 715
 Delta R.T. -0.040 min
 Lab File: 03272318.D
 Acq: 27 Mar 2023 14:08

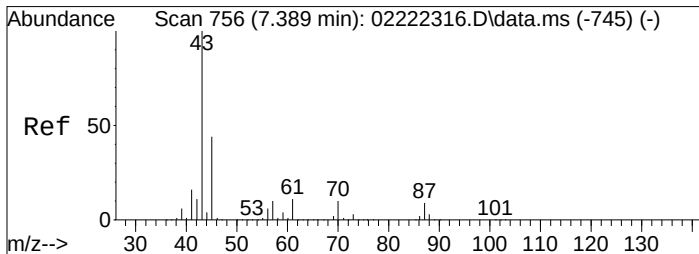
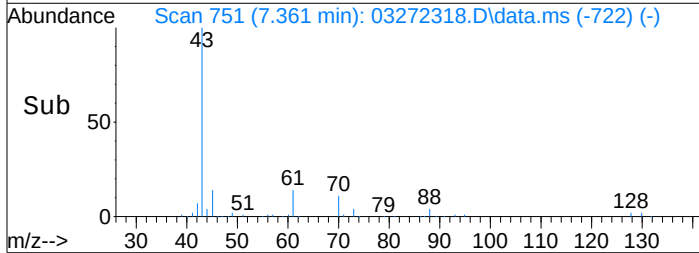
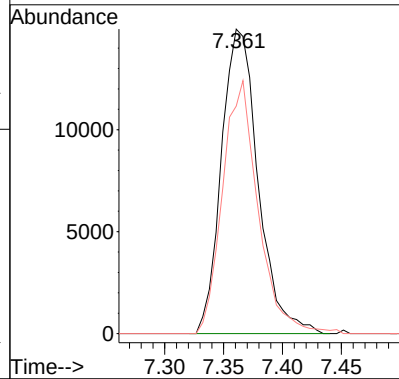
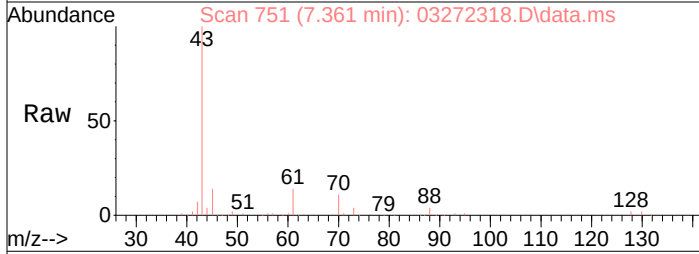
Tgt Ion: 61 Resp: 5318
 Ion Ratio Lower Upper
 61 100
 96 68.9 54.5 94.5





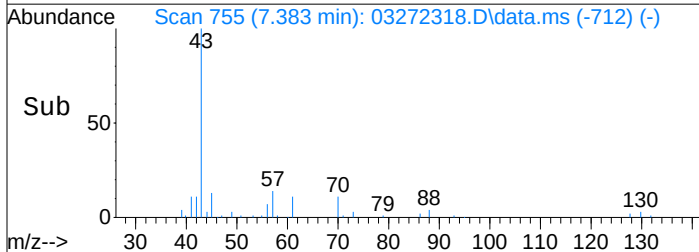
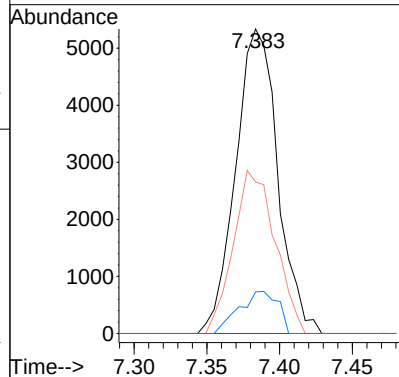
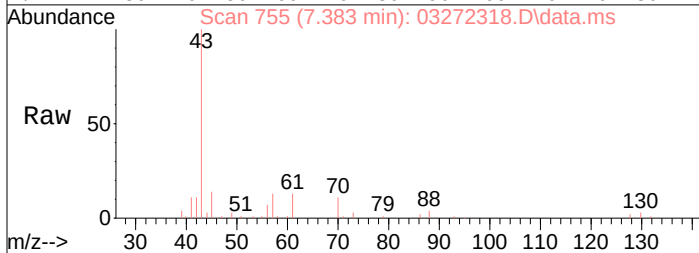
#30
Ethyl Acetate
Concen: 3.97 ng
RT: 7.36 min Scan# 751
Delta R.T. -0.034 min
Lab File: 03272318.D
Acq: 27 Mar 2023 14:08

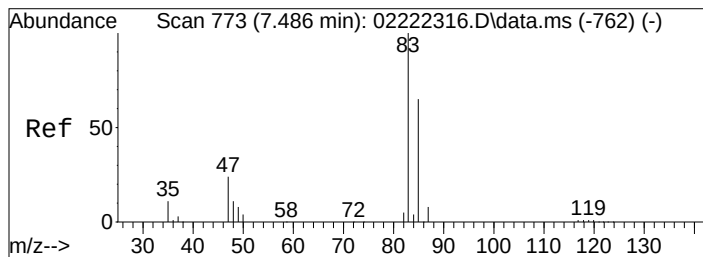
Tgt Ion: 61 Resp: 32471
Ion Ratio Lower Upper
61 100
70 80.3 65.6 105.6



#31
n-Hexane
Concen: 0.34 ng
RT: 7.38 min Scan# 755
Delta R.T. -0.006 min
Lab File: 03272318.D
Acq: 27 Mar 2023 14:08

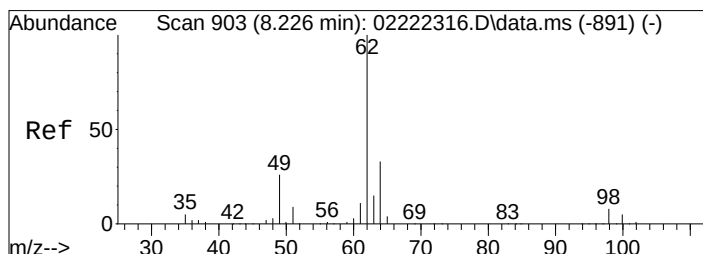
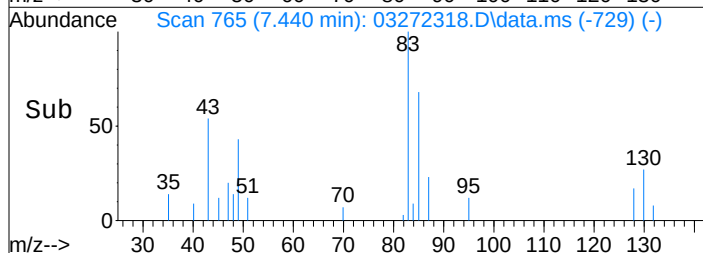
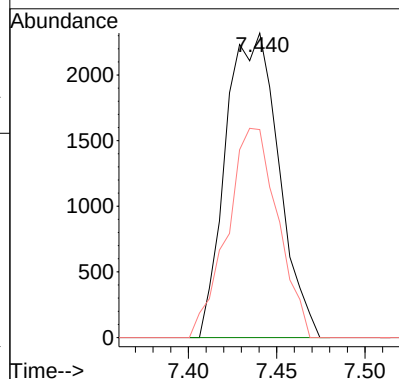
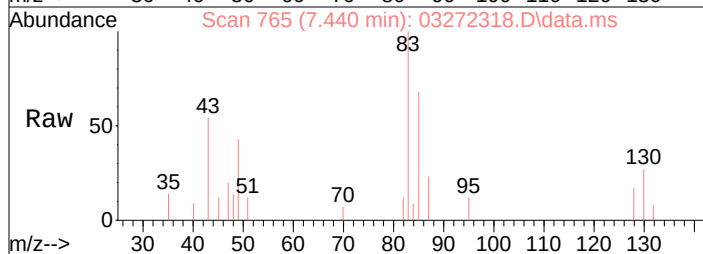
Tgt Ion: 57 Resp: 10748
Ion Ratio Lower Upper
57 100
56 53.1 44.0 66.0
86 12.8 11.5 17.3





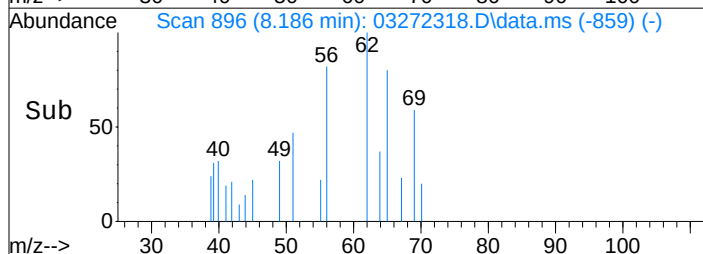
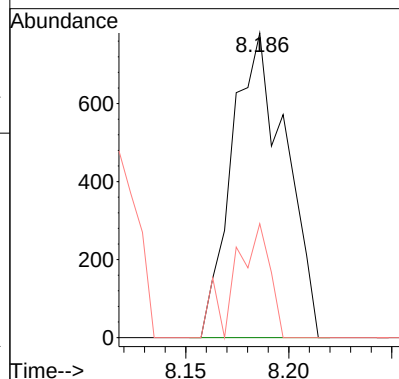
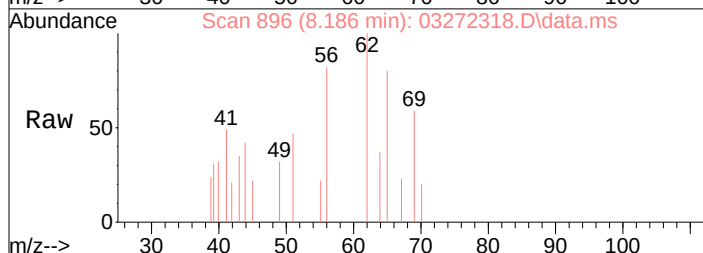
#32
Chloroform
Concen: 0.13 ng
RT: 7.44 min Scan# 765
Delta R.T. -0.046 min
Lab File: 03272318.D
Acq: 27 Mar 2023 14:08

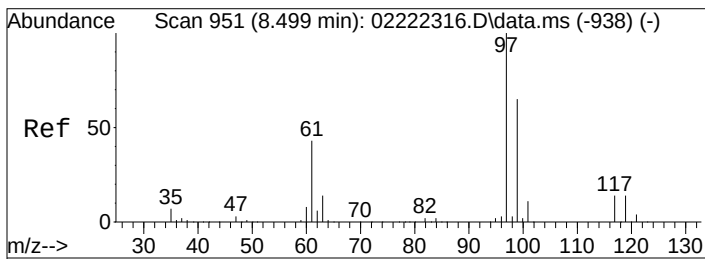
Tgt Ion: 83 Resp: 4828
Ion Ratio Lower Upper
83 100
85 65.8 45.0 85.0



#36
1,2-Dichloroethane
Concen: 0.05 ng
RT: 8.19 min Scan# 896
Delta R.T. -0.040 min
Lab File: 03272318.D
Acq: 27 Mar 2023 14:08

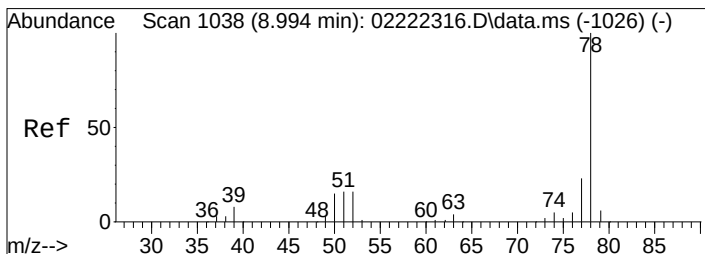
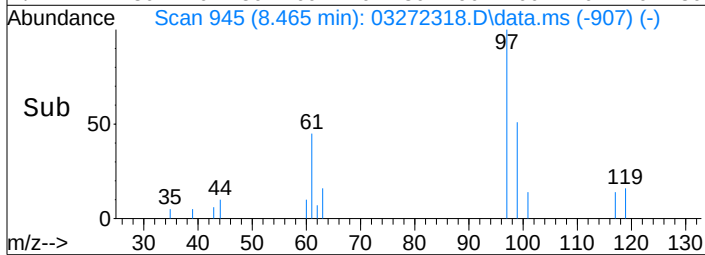
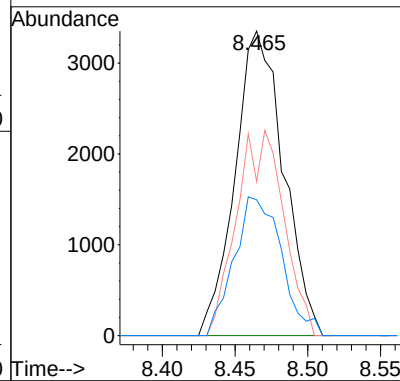
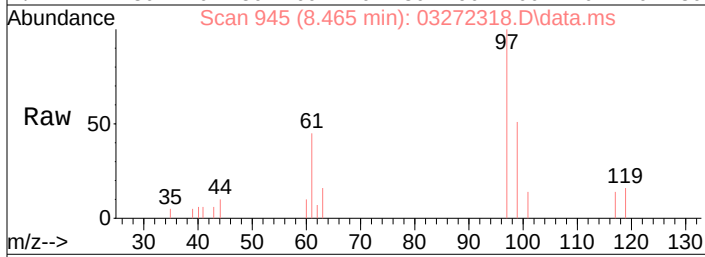
Tgt Ion: 62 Resp: 1414
Ion Ratio Lower Upper
62 100
64 24.7 12.6 52.6





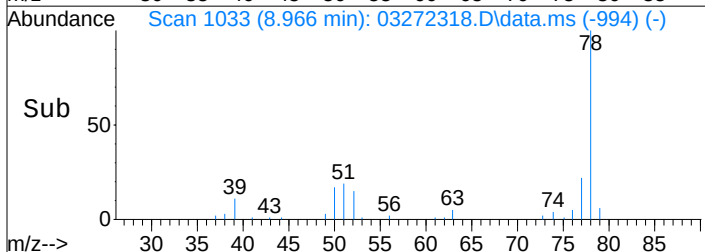
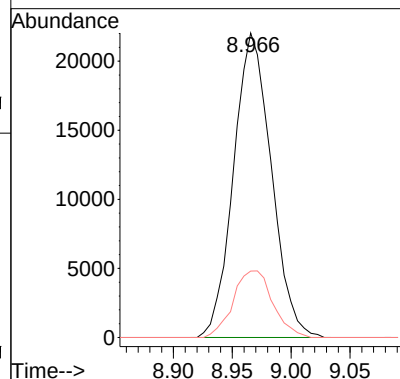
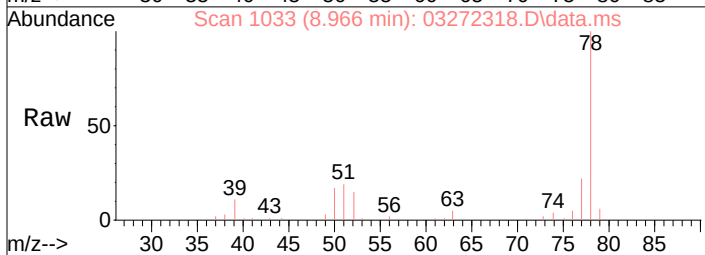
#38
 1,1,1-Trichloroethane
 Concen: 0.23 ng
 RT: 8.46 min Scan# 945
 Delta R.T. -0.034 min
 Lab File: 03272318.D
 Acq: 27 Mar 2023 14:08

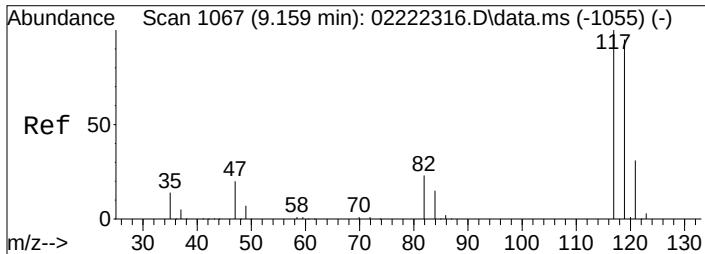
Tgt Ion: 97 Resp: 7779
 Ion Ratio Lower Upper
 97 100
 99 65.3 44.9 84.9
 61 44.5 23.5 63.5



#41
 Benzene
 Concen: 0.61 ng
 RT: 8.97 min Scan# 1033
 Delta R.T. -0.029 min
 Lab File: 03272318.D
 Acq: 27 Mar 2023 14:08

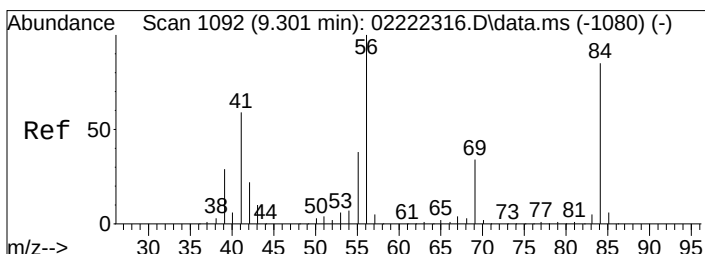
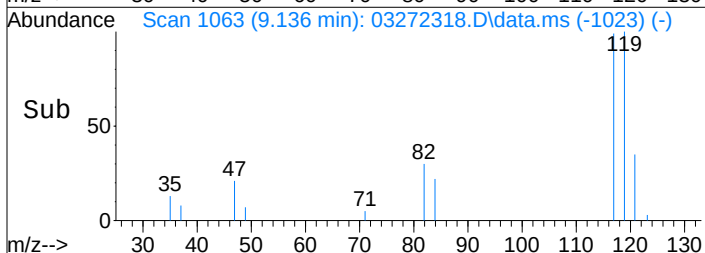
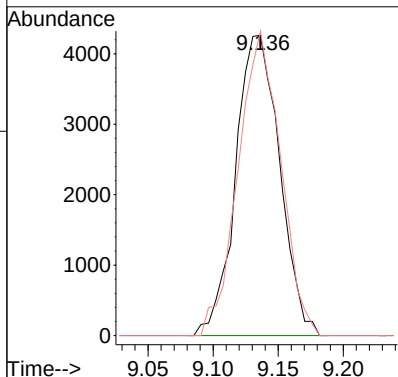
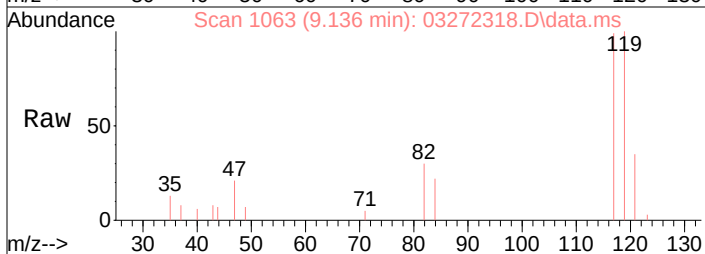
Tgt Ion: 78 Resp: 49158
 Ion Ratio Lower Upper
 78 100
 77 23.0 3.7 43.7





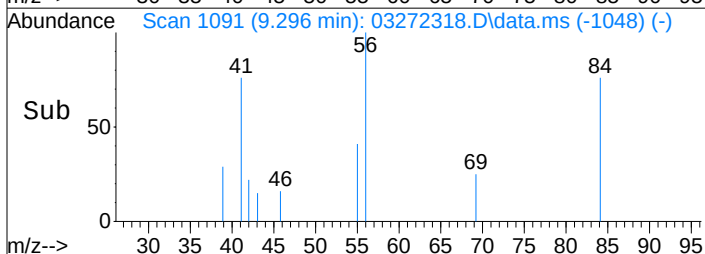
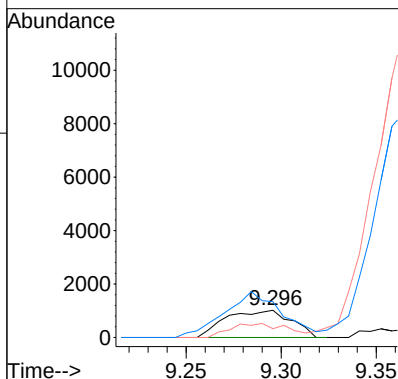
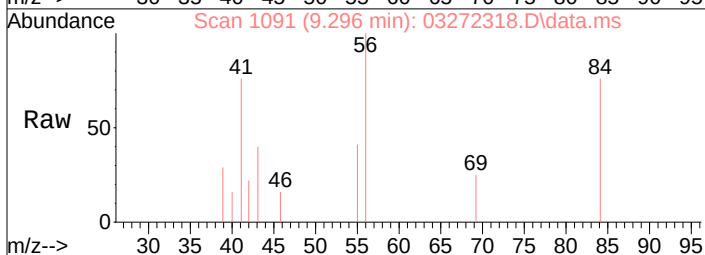
#42
Carbon Tetrachloride
Concen: 0.33 ng
RT: 9.14 min Scan# 1063
Delta R.T. -0.023 min
Lab File: 03272318.D
Acq: 27 Mar 2023 14:08

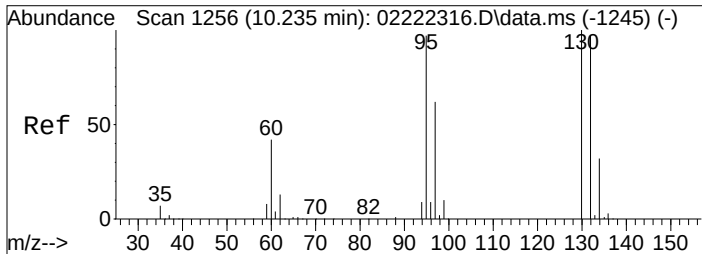
Tgt Ion: 117 Resp: 10024
Ion Ratio Lower Upper
117 100
119 97.9 75.7 115.7



#43
Cyclohexane
Concen: 0.08 ng
RT: 9.30 min Scan# 1091
Delta R.T. -0.006 min
Lab File: 03272318.D
Acq: 27 Mar 2023 14:08

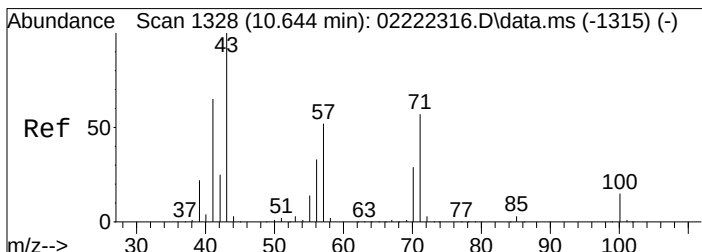
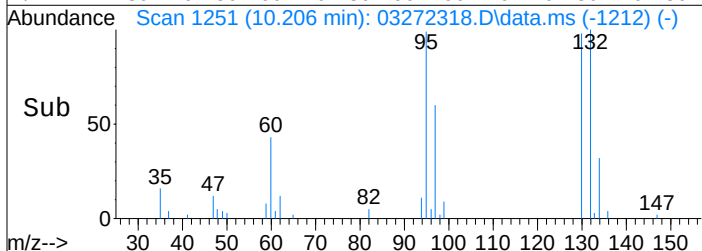
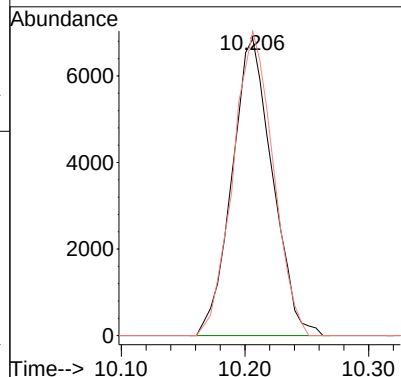
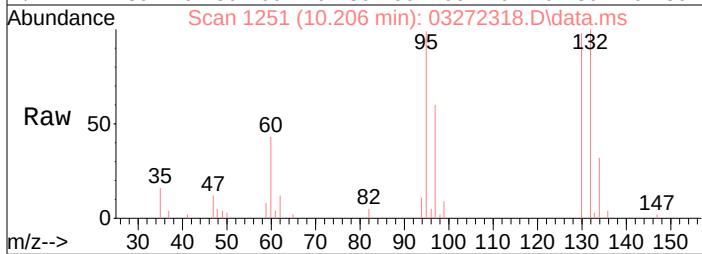
Tgt Ion: 84 Resp: 2432
Ion Ratio Lower Upper
84 100
69 44.8 20.0 60.0
56 148.1 98.5 138.5#





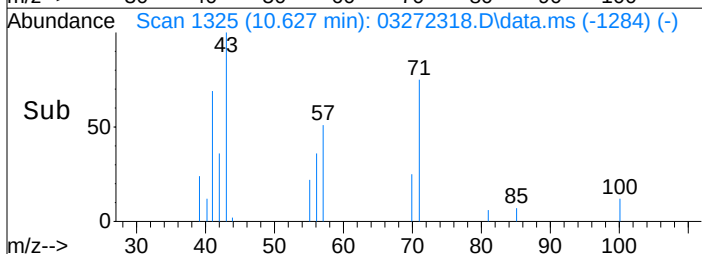
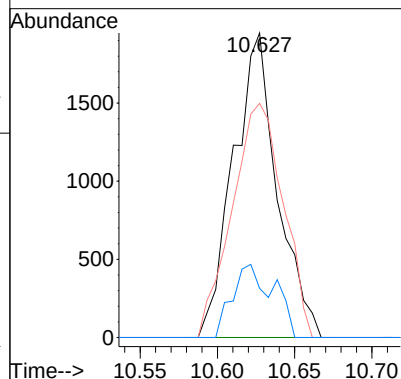
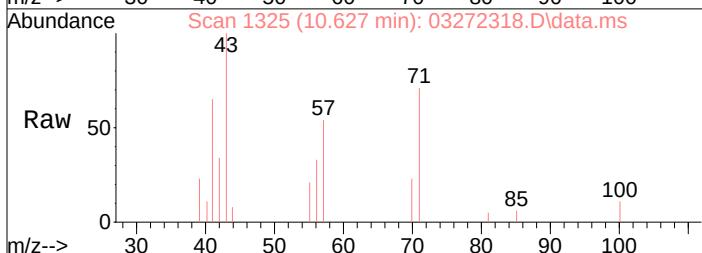
#47
 Trichloroethene
 Concen: 0.67 ng
 RT: 10.21 min Scan# 1251
 Delta R.T. -0.029 min
 Lab File: 03272318.D
 Acq: 27 Mar 2023 14:08

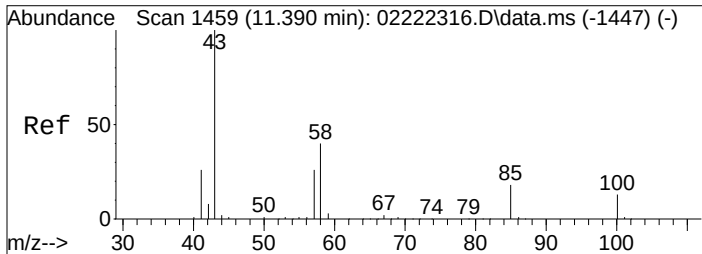
Tgt Ion: 130 Resp: 15654
 Ion Ratio Lower Upper
 130 100
 132 101.4 76.3 116.3



#51
 n-Heptane
 Concen: 0.20 ng
 RT: 10.63 min Scan# 1325
 Delta R.T. -0.017 min
 Lab File: 03272318.D
 Acq: 27 Mar 2023 14:08

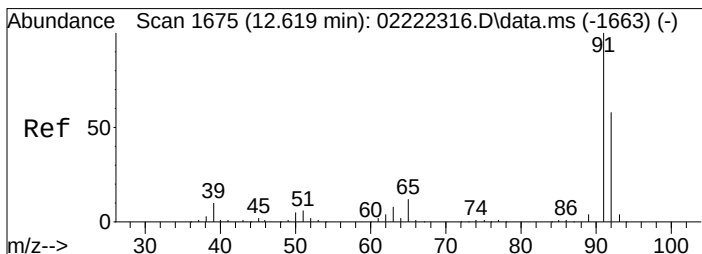
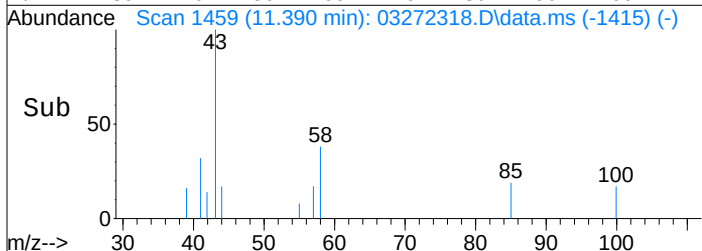
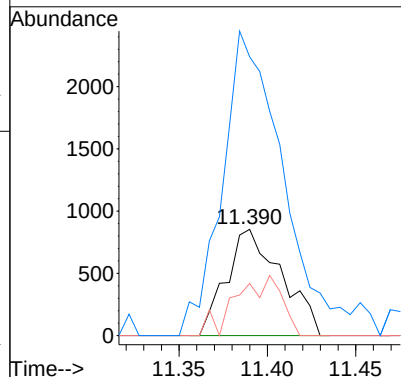
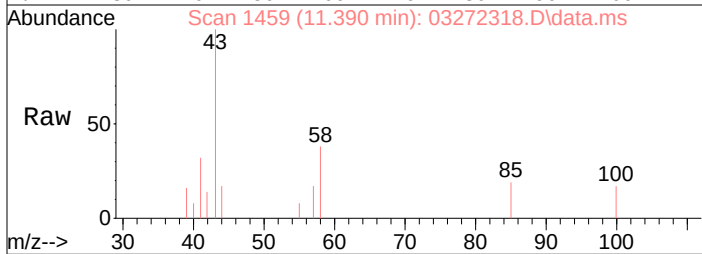
Tgt Ion: 71 Resp: 3860
 Ion Ratio Lower Upper
 71 100
 57 89.2 71.7 111.7
 100 22.5 5.8 45.8





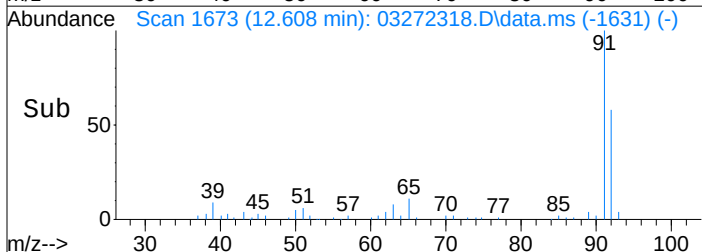
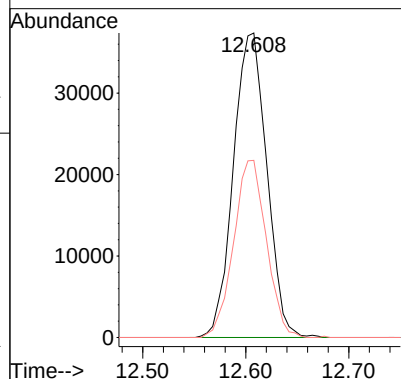
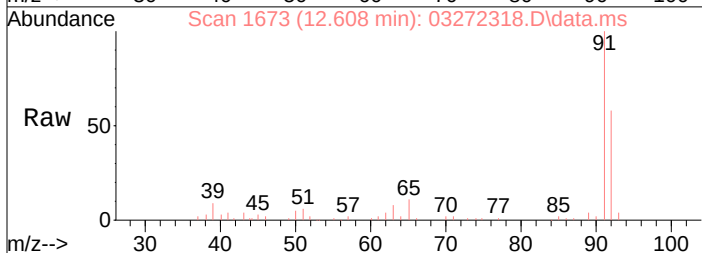
#53
 4-Methyl-2-pentanone
 Concen: 0.11 ng
 RT: 11.39 min Scan# 1459
 Delta R.T. -0.000 min
 Lab File: 03272318.D
 Acq: 27 Mar 2023 14:08

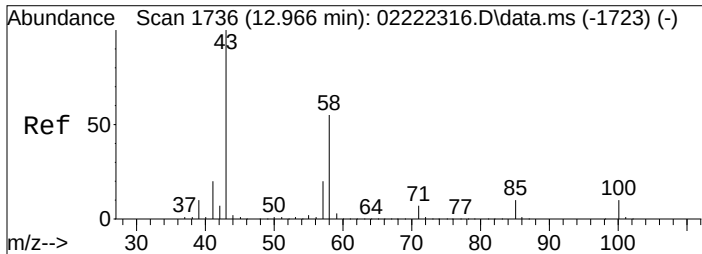
Tgt Ion:	58	Resp:	1853
Ion Ratio	Lower	Upper	
58	100		
85	47.2	38.6	58.0
43	322.1	202.2	303.2#



#58
 Toluene
 Concen: 0.88 ng
 RT: 12.61 min Scan# 1673
 Delta R.T. -0.011 min
 Lab File: 03272318.D
 Acq: 27 Mar 2023 14:08

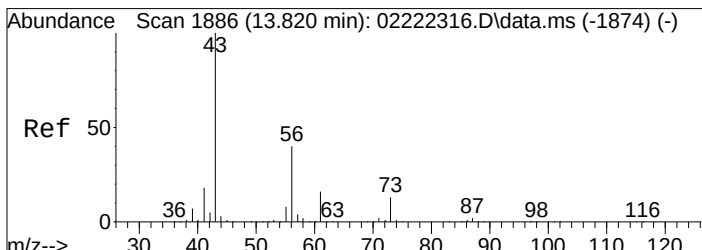
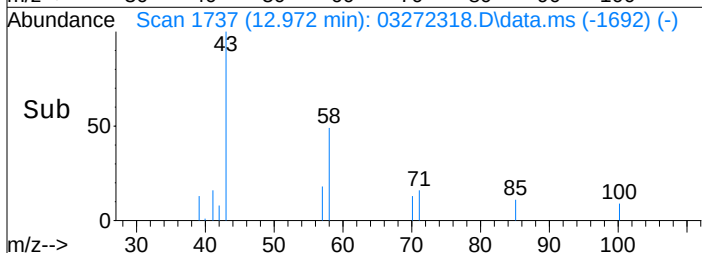
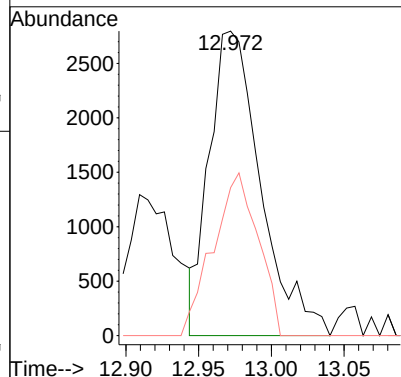
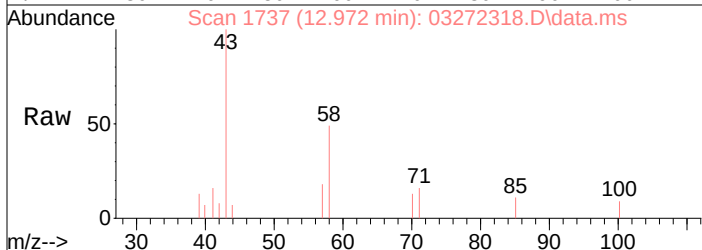
Tgt Ion:	91	Resp:	84178
Ion Ratio	Lower	Upper	
91	100		
92	57.1	38.0	78.0





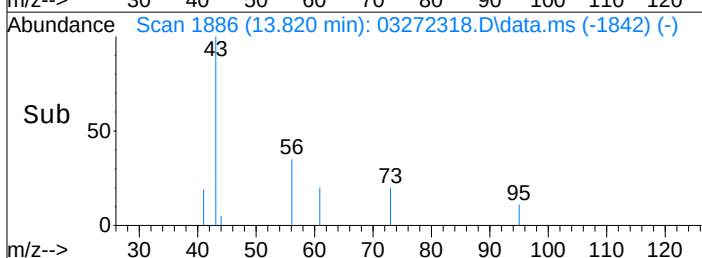
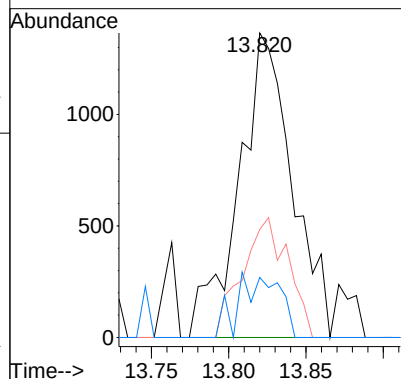
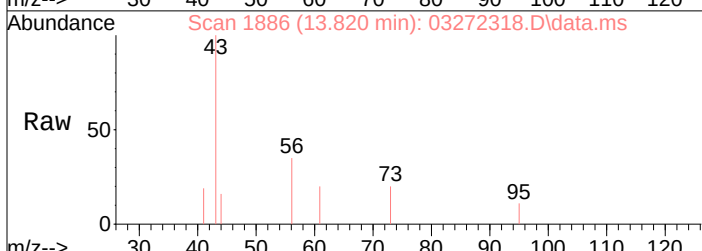
#59
 2-Hexanone
 Concen: 0.15 ng
 RT: 12.97 min Scan# 1737
 Delta R.T. 0.006 min
 Lab File: 03272318.D
 Acq: 27 Mar 2023 14:08

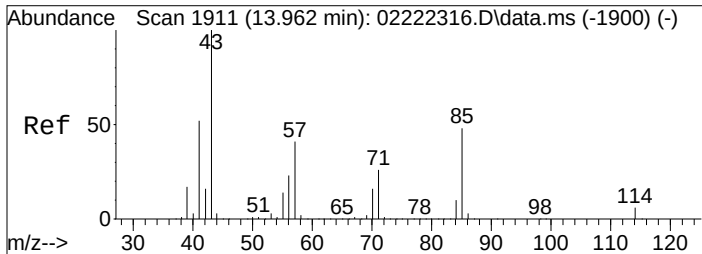
Tgt Ion: 43 Resp: 6890
 Ion Ratio Lower Upper
 43 100
 58 46.8 34.5 74.5



#62
 n-Butyl Acetate
 Concen: 0.06 ng
 RT: 13.82 min Scan# 1886
 Delta R.T. -0.000 min
 Lab File: 03272318.D
 Acq: 27 Mar 2023 14:08

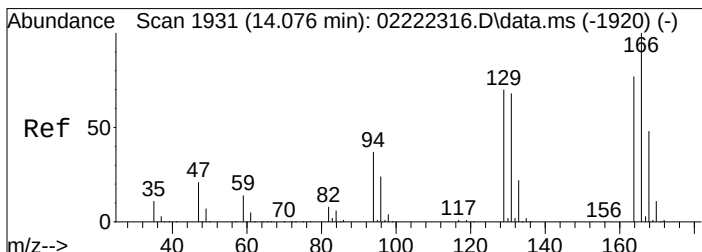
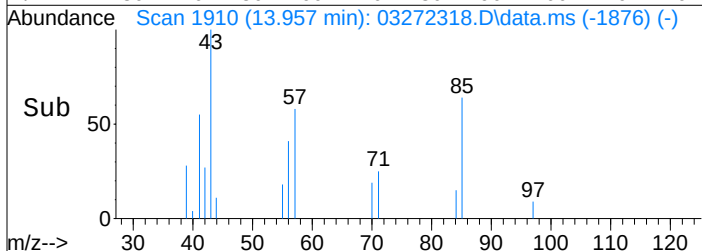
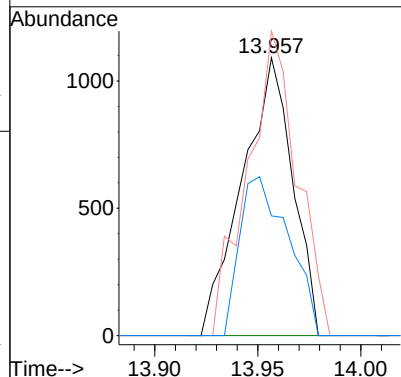
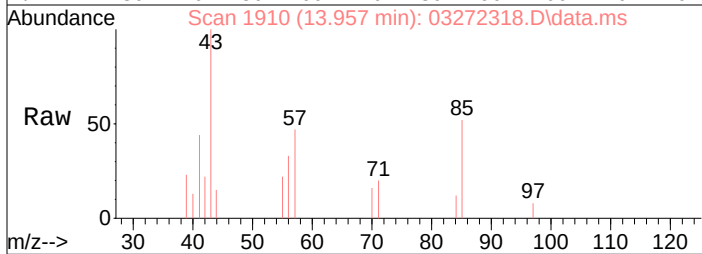
Tgt Ion: 43 Resp: 3290
 Ion Ratio Lower Upper
 43 100
 56 33.7 20.0 60.0
 73 16.2 0.0 33.2





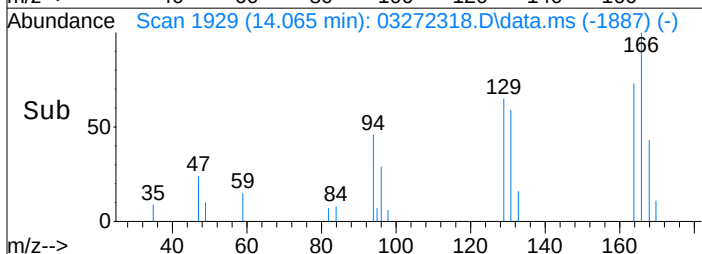
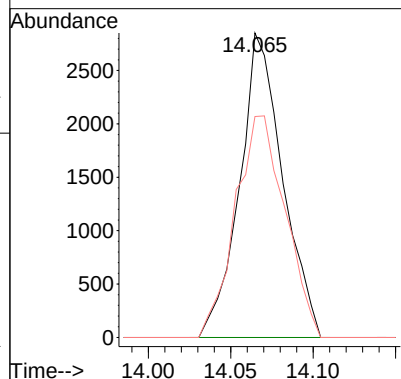
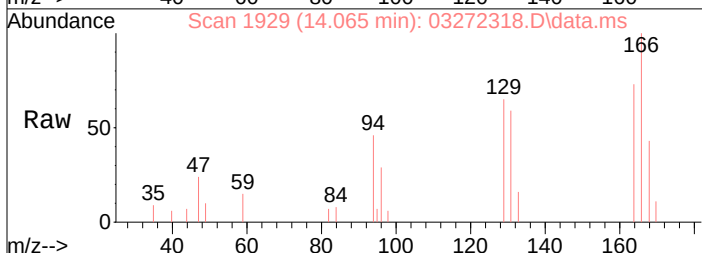
#63
n-Octane
Concen: 0.10 ng
RT: 13.96 min Scan# 1910
Delta R.T. -0.006 min
Lab File: 03272318.D
Acq: 27 Mar 2023 14:08

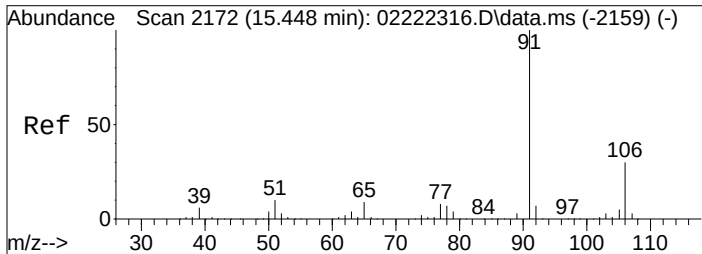
Tgt Ion:	57	Resp:	1855
Ion Ratio		Lower	Upper
57	100		
85	107.5	94.1	141.1
71	55.4	52.6	79.0



#64
Tetrachloroethene
Concen: 0.18 ng
RT: 14.06 min Scan# 1929
Delta R.T. -0.011 min
Lab File: 03272318.D
Acq: 27 Mar 2023 14:08

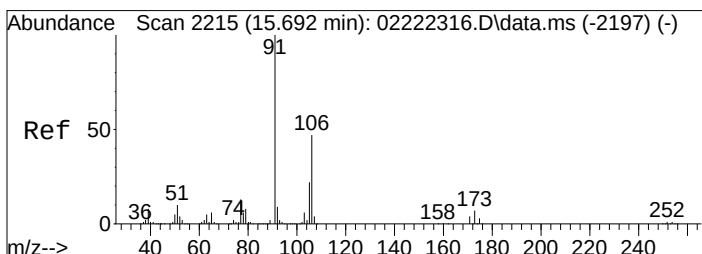
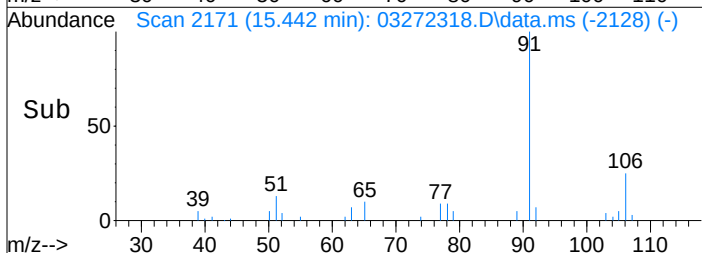
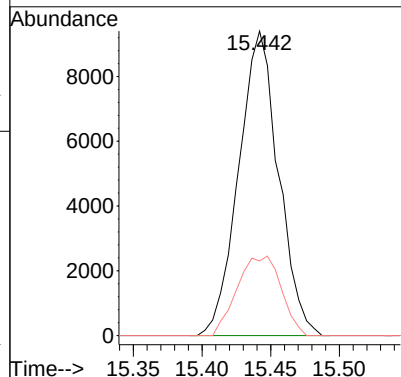
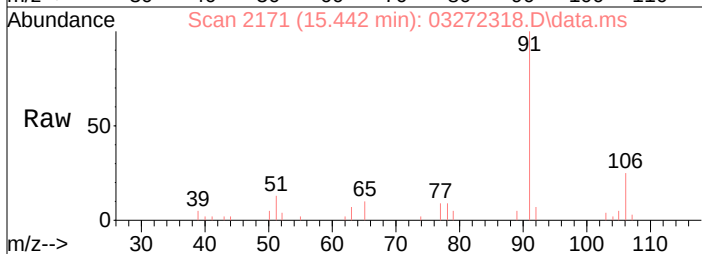
Tgt Ion:	166	Resp:	5183
Ion Ratio		Lower	Upper
166	100		
164	84.1	57.3	97.3





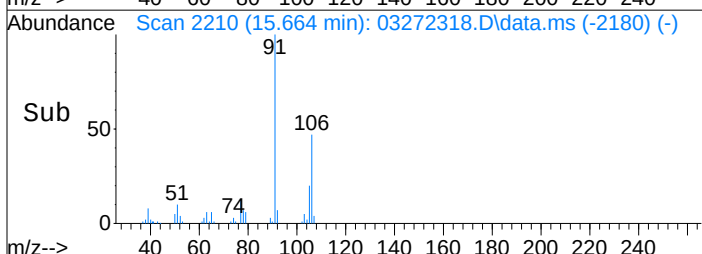
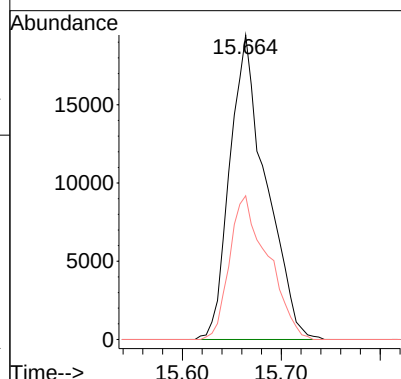
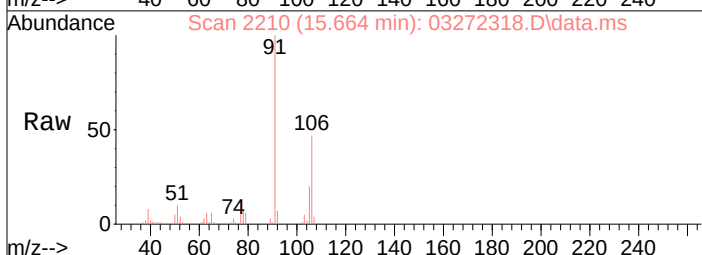
#66
Ethylbenzene
Concen: 0.17 ng
RT: 15.44 min Scan# 2171
Delta R.T. -0.006 min
Lab File: 03272318.D
Acq: 27 Mar 2023 14:08

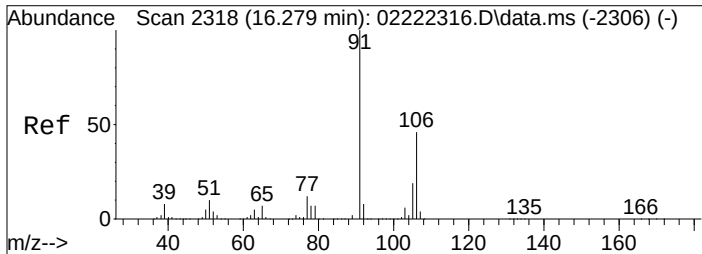
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	18952		
106	28.8	10.4	50.4	



#67
m- & p-Xylenes
Concen: 0.54 ng
RT: 15.66 min Scan# 2210
Delta R.T. -0.028 min
Lab File: 03272318.D
Acq: 27 Mar 2023 14:08

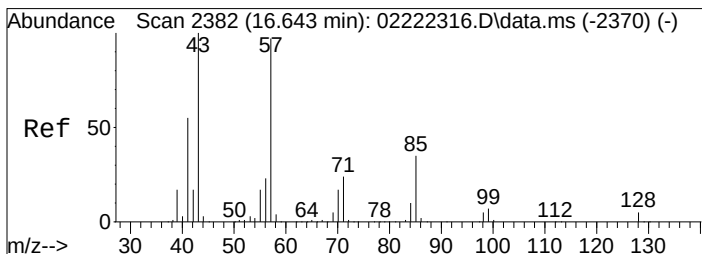
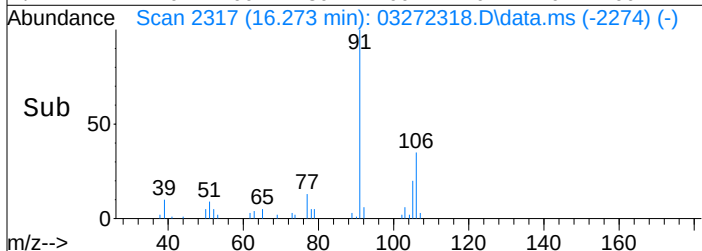
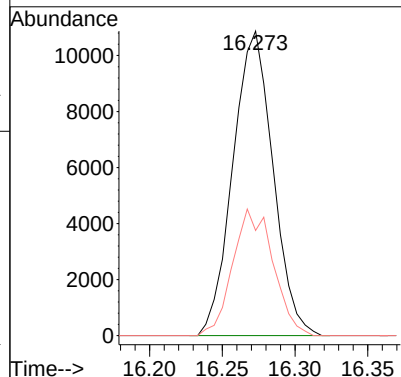
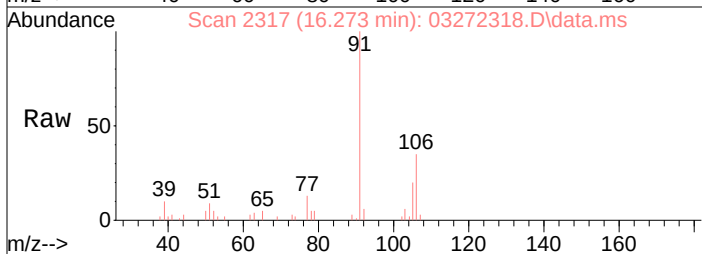
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	49484		
106	50.0	26.2	66.2	





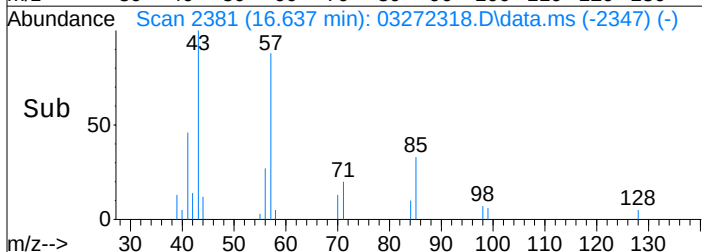
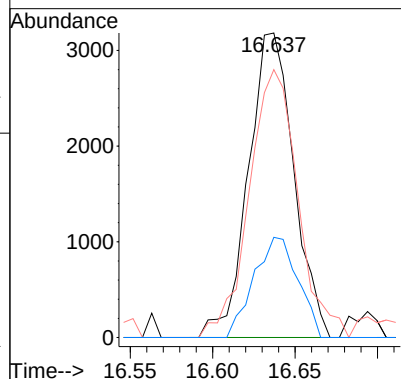
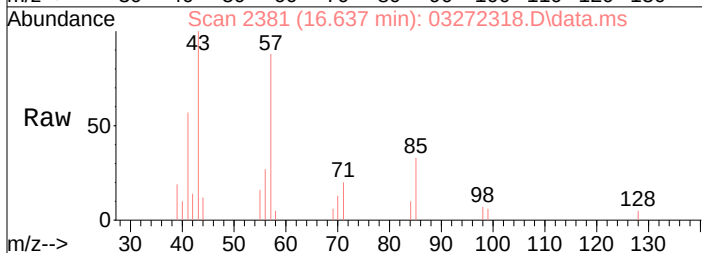
#70
o-Xylene
Concen: 0.24 ng
RT: 16.27 min Scan# 2317
Delta R.T. -0.006 min
Lab File: 03272318.D
Acq: 27 Mar 2023 14:08

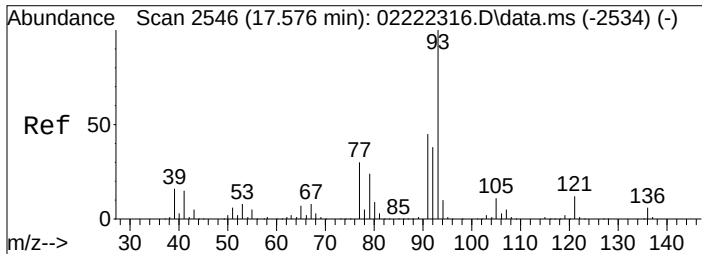
Tgt Ion: 91 Resp: 20881
Ion Ratio Lower Upper
91 100
106 41.8 25.4 65.4



#71
n-Nonane
Concen: 0.14 ng
RT: 16.64 min Scan# 2381
Delta R.T. -0.006 min
Lab File: 03272318.D
Acq: 27 Mar 2023 14:08

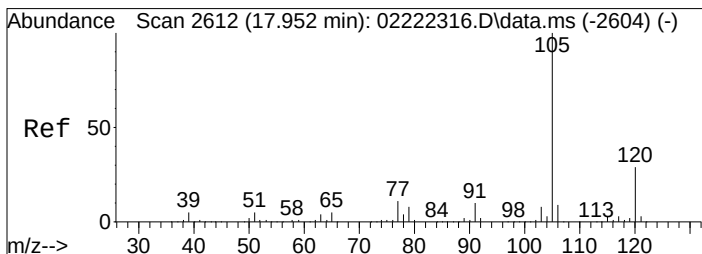
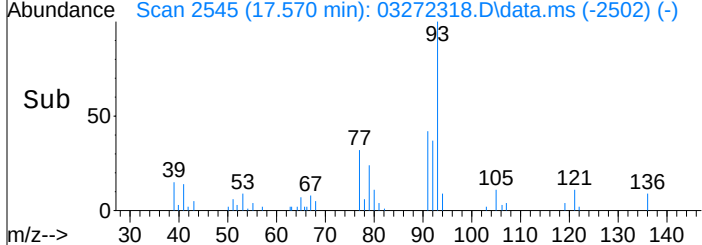
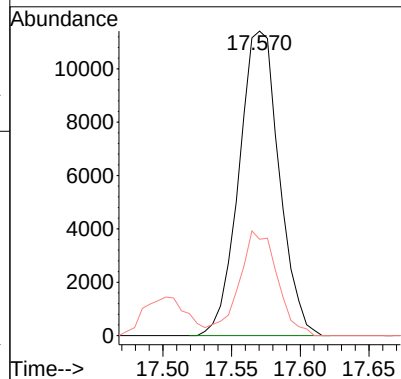
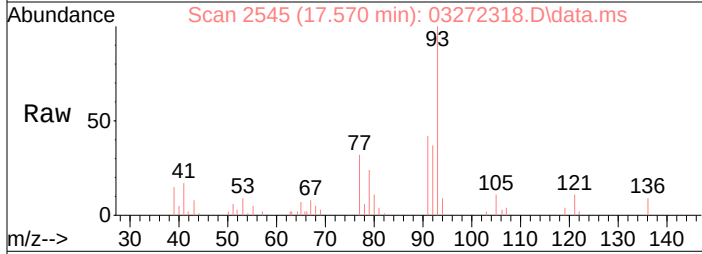
Tgt Ion: 43 Resp: 6106
Ion Ratio Lower Upper
43 100
57 94.1 74.2 114.2
85 31.9 14.2 54.2





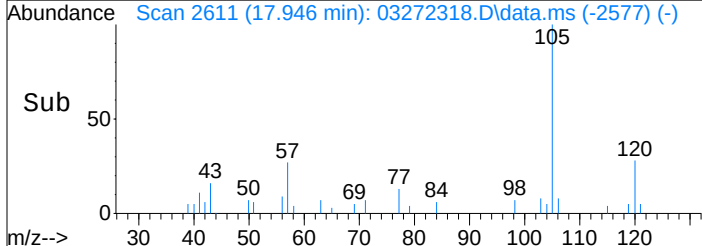
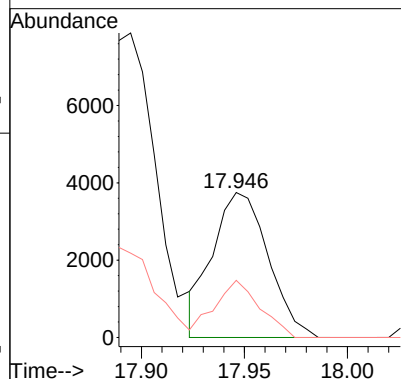
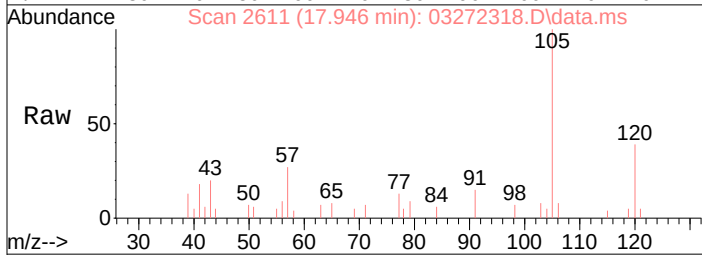
#75
 alpha-Pinene
 Concen: 0.47 ng
 RT: 17.57 min Scan# 2545
 Delta R.T. -0.006 min
 Lab File: 03272318.D
 Acq: 27 Mar 2023 14:08

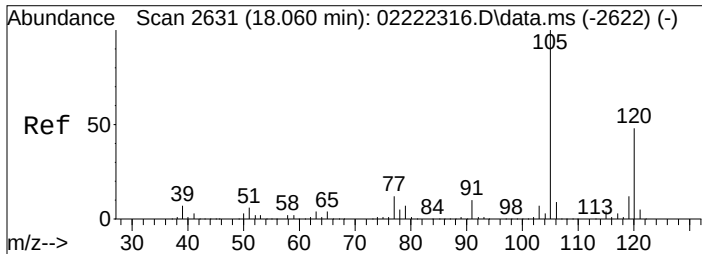
Tgt Ion:	93	Resp:	23271
Ion Ratio	Lower	Upper	
93	100		
77	32.6	11.1	51.1



#78
 4-Ethyltoluene
 Concen: 0.07 ng
 RT: 17.95 min Scan# 2611
 Delta R.T. -0.006 min
 Lab File: 03272318.D
 Acq: 27 Mar 2023 14:08

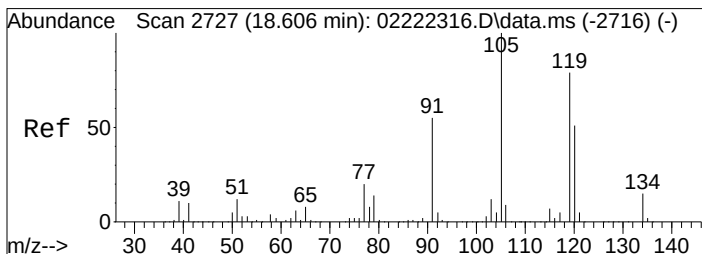
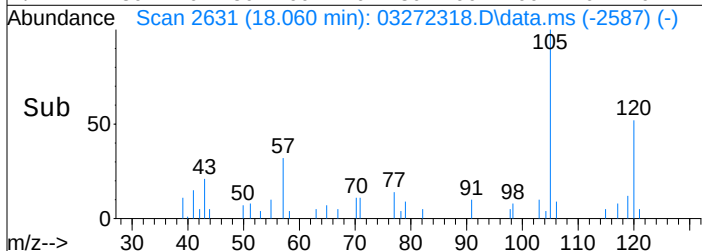
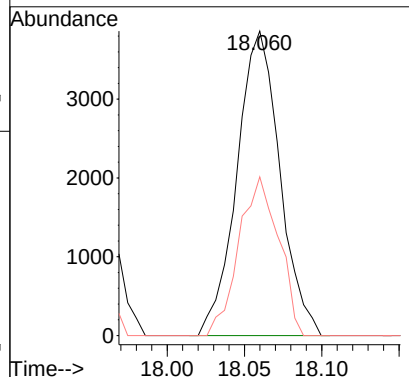
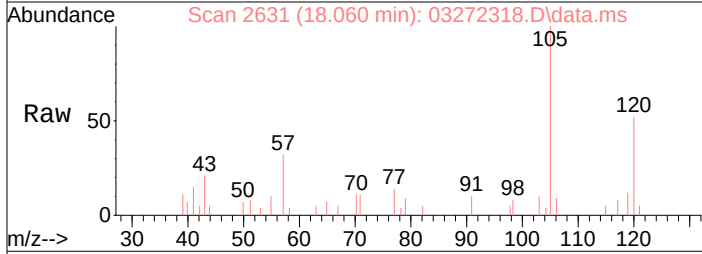
Tgt Ion:	105	Resp:	7064
Ion Ratio	Lower	Upper	
105	100		
120	32.0	9.1	49.1





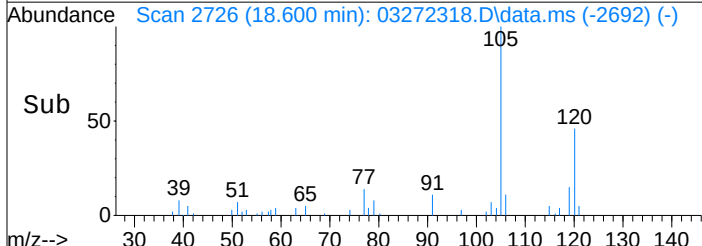
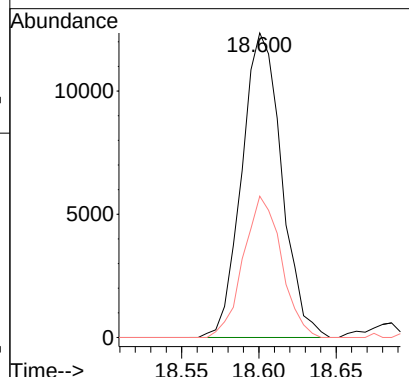
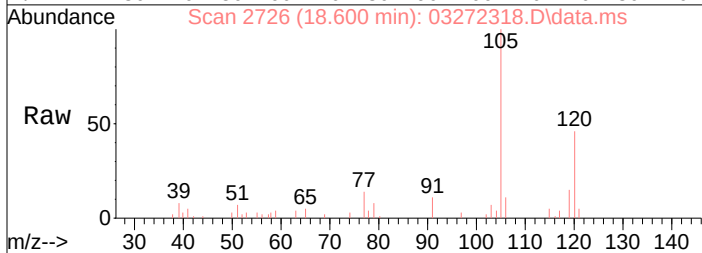
#79
 1,3,5-Trimethylbenzene
 Concen: 0.08 ng
 RT: 18.06 min Scan# 2631
 Delta R.T. -0.000 min
 Lab File: 03272318.D
 Acq: 27 Mar 2023 14:08

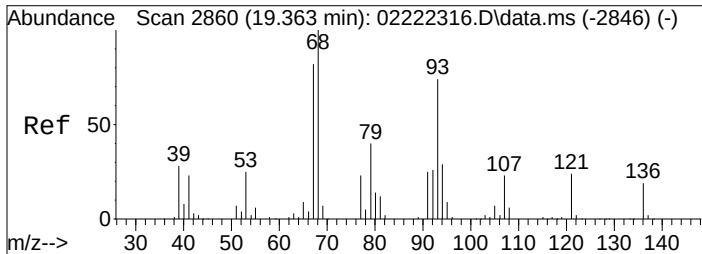
Tgt Ion:	105	Resp:	7481
Ion Ratio		Lower	Upper
105	100		
120	48.3	28.4	68.4



#82
 1,2,4-Trimethylbenzene
 Concen: 0.25 ng
 RT: 18.60 min Scan# 2726
 Delta R.T. -0.006 min
 Lab File: 03272318.D
 Acq: 27 Mar 2023 14:08

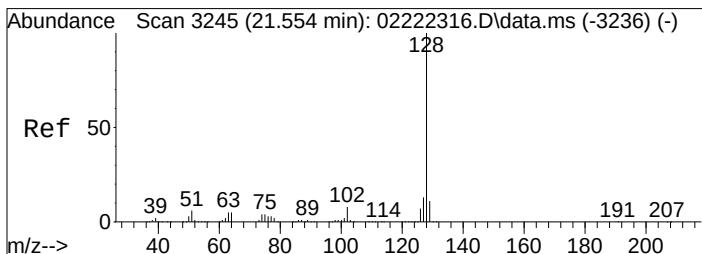
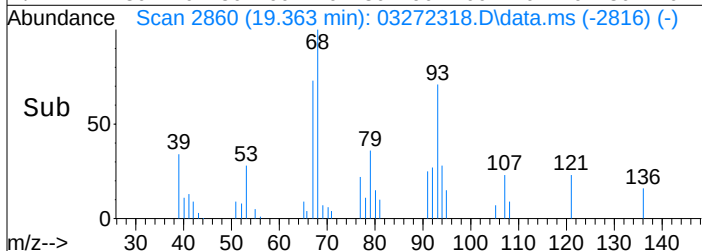
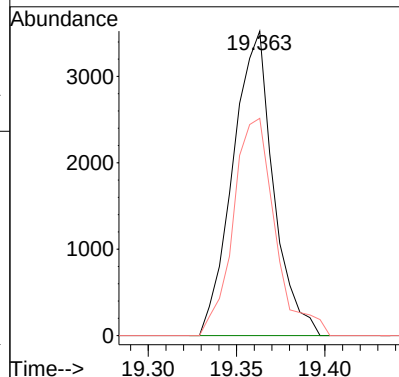
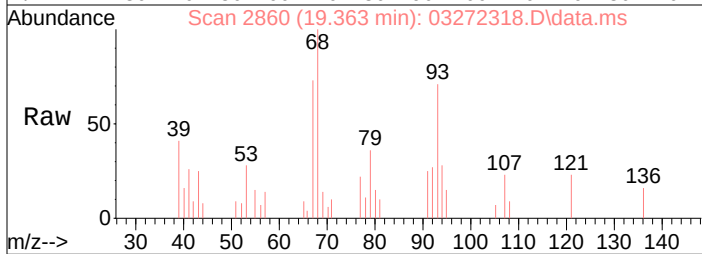
Tgt Ion:	105	Resp:	22207
Ion Ratio		Lower	Upper
105	100		
120	44.3	32.8	72.8





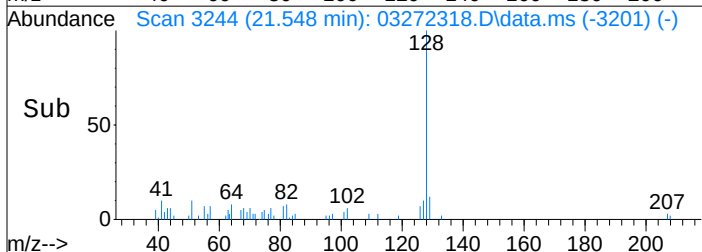
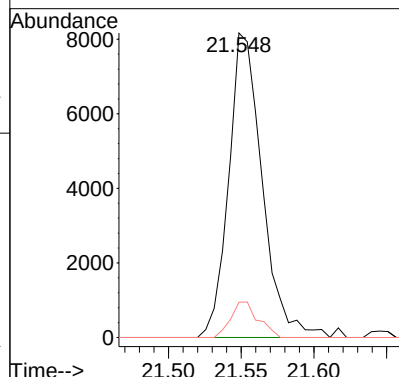
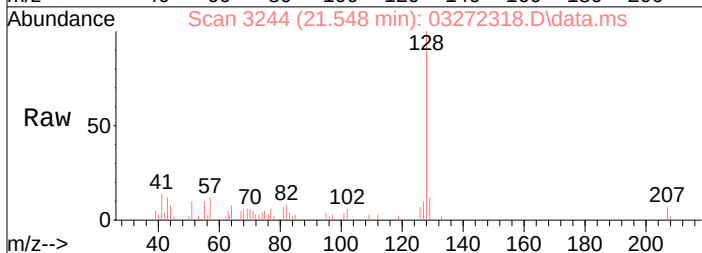
#91
d-Limonene
Concen: 0.18 ng
RT: 19.36 min Scan# 2860
Delta R.T. -0.000 min
Lab File: 03272318.D
Acq: 27 Mar 2023 14:08

Tgt Ion: 68 Resp: 5616
Ion Ratio Lower Upper
68 100
93 73.8 54.8 94.8



#95
Naphthalene
Concen: 0.13 ng
RT: 21.55 min Scan# 3244
Delta R.T. -0.006 min
Lab File: 03272318.D
Acq: 27 Mar 2023 14:08

Tgt Ion: 128 Resp: 13106
Ion Ratio Lower Upper
128 100
129 9.6 0.0 30.9



Data File : I:\MS13\DATA\2023_03\27\03272318.D
 Acq On : 27 Mar 2023 14:08
 Sample : P2301250-031 (1000mL)
 Misc : S35-01202301

Vial: 5
 Operator: TZ
 Inst : MS13

TZ 3/28/23

Quant Time: Mar 28 11:18:04 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.31	130	233612	12.500	ng	-0.01
16) 1,4-Difluorobenzene (C_2)	9.37	114	1030024	12.500	ng	-0.01
19) Chlorobenzene-d5 (C_3)	14.88	54	196384	12.500	ng	0.00

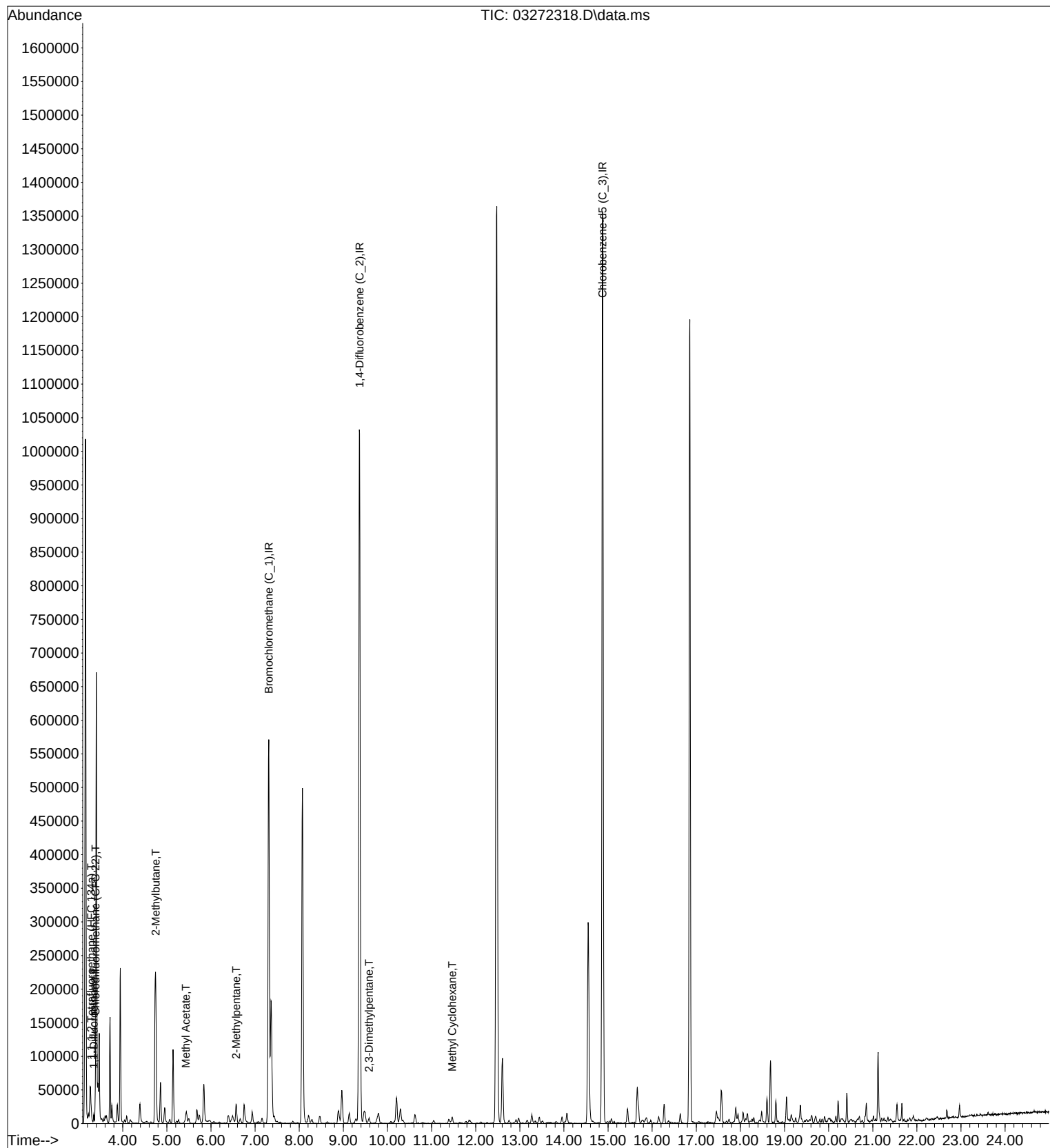
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.22	85	892	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.29	83	6745	0.358 ng	#	69
4) 1,1-Difluoroethane	3.34	65	3292	0.205 ng		98
5) Chlorodifluoromethane ...	3.38	67	2743	0.481 ng	#	85
6) 1-Chloro-1,1-Difluoroe...	3.60	65	2941	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	4.75	57	35747	2.092 ng	#	77
11) Methyl Acetate	5.43	43	10552	0.274 ng	#	79
12) 2-Methylpentane	6.58	71	6416	0.393 ng		75
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	9.14	84	1817	N.D.		
17) 2,3-Dimethylpentane	9.59	56	3896	0.128 ng	#	76
18) Dibromomethane	9.85	174	305	N.D.		
20) Methyl Cyclohexane	11.47	55	3981	0.122 ng		88
21) 1,3-Dichloropropane	12.60	76	133	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	0.00	91	0	N.D.		
24) 1,2,3-Trichloropropane	0.00	75	0	N.D.		
25) Bromobenzene	17.05	77	391	N.D.		
26) 2-Chlorotoluene	17.74	91	5906	N.D.		
27) 4-Chlorotoluene	17.74	91	5906	N.D.		
28) Indane	19.39	117	2552	N.D.		
29) Indene	19.52	115	261	N.D.		
30) 1,2,4,5-Tetramethylben...	20.65	119	2131	N.D.		
31) 1,2,3,4-Tetramethylben...	20.69	119	3169	N.D.		
32) 1,2,3,5-Tetramethylben...	21.14	119	1745	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\27\03272318.D
Acq On : 27 Mar 2023 14:08
Sample : P2301250-031 (1000mL)
Misc : S35-01202301

Vial: 5
Operator: TZ
Inst : MS13

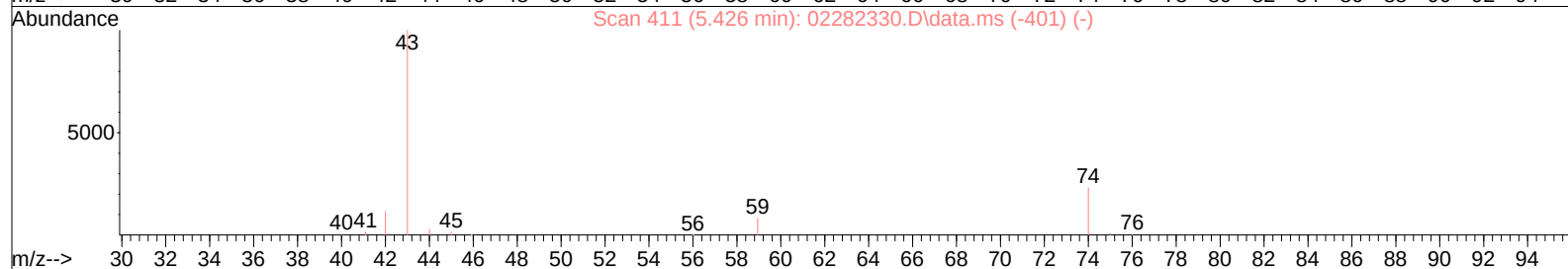
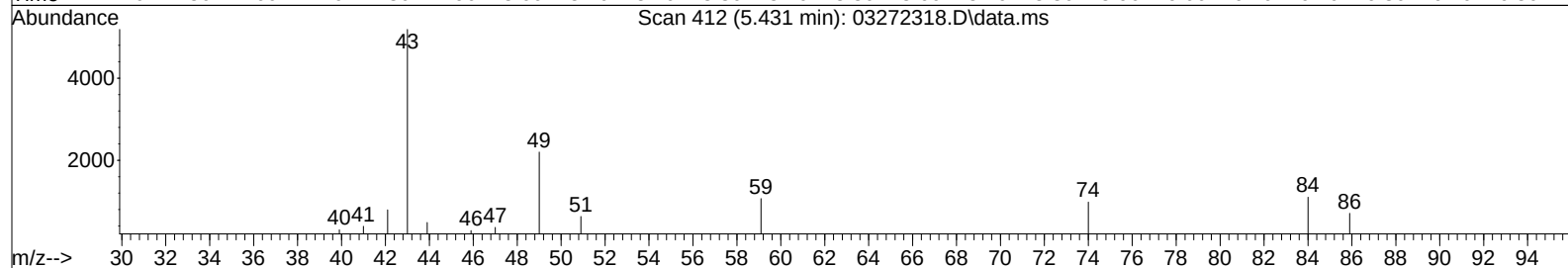
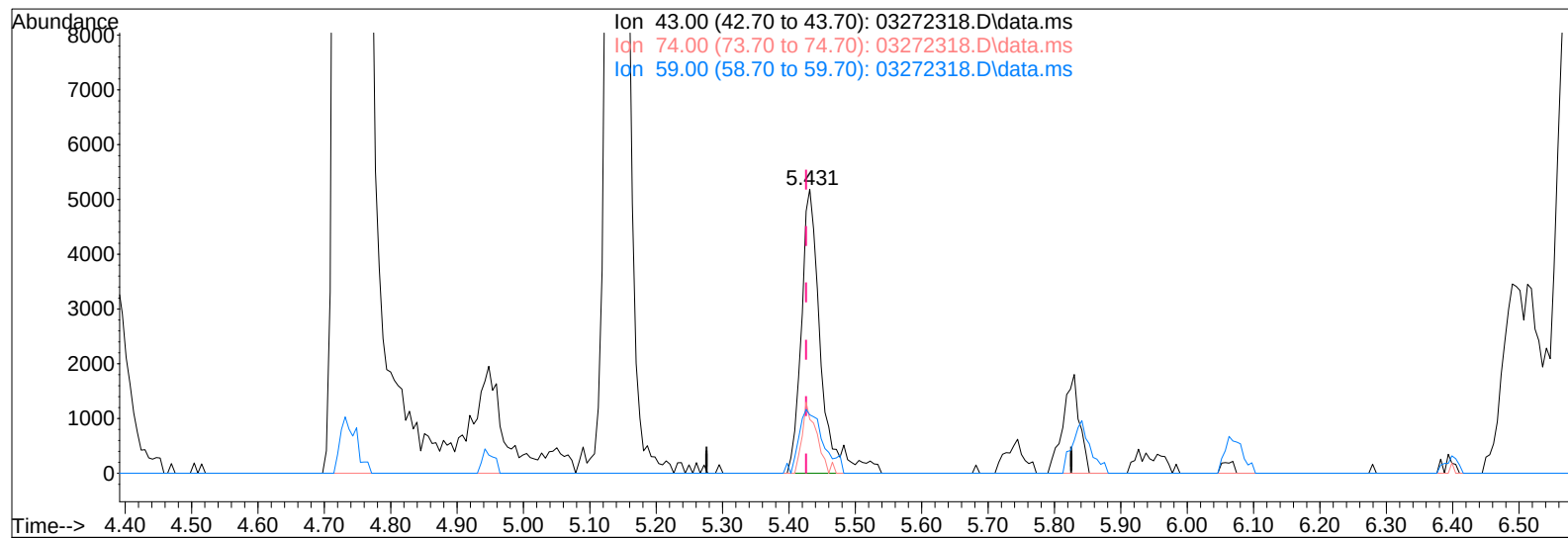
Quant Time: Mar 28 11:18:04 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\27\03272318.D
Acq On : 27 Mar 2023 14:08
Sample : P2301250-031 (1000mL)
Misc : S35-01202301

Vial: 5
Operator: TZ
Inst : MS13

Quant Time: Mar 28 11:18:04 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03272318.D\data.ms

(11) Methyl Acetate (T)

5.431min (+0.006) 0.27ng

response 10552

Ion	Exp%	Act%
43.00	100	100
74.00	23.00	18.63
59.00	8.50	28.20#
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG2-2

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-032

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01712

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.68 Final Pressure (psig): 3.79

Container Dilution Factor: 1.54

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	0.82	0.13	0.48	0.17	0.027	
74-87-3	Chloromethane	0.34	0.32	0.13	0.16	0.16	0.064	
75-01-4	Vinyl Chloride	ND	0.17	0.088	ND	0.066	0.034	
74-83-9	Bromomethane	ND	0.32	0.11	ND	0.083	0.029	
75-00-3	Chloroethane	ND	0.32	0.10	ND	0.12	0.039	
67-64-1	Acetone	7.5	8.1	1.8	3.1	3.4	0.78	J
75-69-4	Trichlorofluoromethane	1.2	0.80	0.12	0.21	0.14	0.022	
75-35-4	1,1-Dichloroethene	ND	0.17	0.11	ND	0.043	0.029	
75-09-2	Methylene Chloride	0.35	0.82	0.23	0.10	0.24	0.067	J
76-13-1	Trichlorotrifluoroethane	0.49	0.83	0.12	0.063	0.11	0.015	J
75-15-0	Carbon Disulfide	ND	1.6	0.25	ND	0.53	0.079	
156-60-5	trans-1,2-Dichloroethene	ND	0.17	0.11	ND	0.043	0.029	
75-34-3	1,1-Dichloroethane	ND	0.17	0.12	ND	0.042	0.030	
1634-04-4	Methyl tert-Butyl Ether	ND	0.83	0.097	ND	0.23	0.027	
78-93-3	2-Butanone (MEK)	1.4	1.6	0.17	0.48	0.54	0.057	J
156-59-2	cis-1,2-Dichloroethene	ND	0.17	0.12	ND	0.043	0.029	
67-66-3	Chloroform	0.23	0.17	0.11	0.047	0.035	0.022	
107-06-2	1,2-Dichloroethane	ND	0.17	0.091	ND	0.042	0.022	
71-55-6	1,1,1-Trichloroethane	0.22	0.17	0.10	0.041	0.031	0.019	
71-43-2	Benzene	0.75	0.17	0.12	0.24	0.053	0.037	
56-23-5	Carbon Tetrachloride	0.49	0.17	0.11	0.078	0.027	0.018	
110-82-7	Cyclohexane	ND	1.6	0.23	ND	0.47	0.067	
78-87-5	1,2-Dichloropropane	ND	0.17	0.10	ND	0.037	0.022	
75-27-4	Bromodichloromethane	ND	0.17	0.12	ND	0.025	0.018	
79-01-6	Trichloroethene	1.7	0.17	0.11	0.31	0.032	0.021	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG2-2

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-032

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01712

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.68 Final Pressure (psig): 3.79

Container Dilution Factor: 1.54

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.83	0.13	ND	0.18	0.028	
108-10-1	4-Methyl-2-pentanone	ND	1.7	0.11	ND	0.41	0.027	
10061-02-6	trans-1,3-Dichloropropene	ND	0.79	0.17	ND	0.17	0.037	
79-00-5	1,1,2-Trichloroethane	ND	0.17	0.083	ND	0.031	0.015	
108-88-3	Toluene	1.2	0.82	0.10	0.32	0.22	0.027	
591-78-6	2-Hexanone	0.29	1.7	0.10	0.070	0.41	0.025	J
124-48-1	Dibromochloromethane	ND	0.17	0.11	ND	0.020	0.013	
106-93-4	1,2-Dibromoethane	ND	0.17	0.095	ND	0.022	0.012	
127-18-4	Tetrachloroethene	0.44	0.17	0.11	0.064	0.025	0.016	
108-90-7	Chlorobenzene	ND	0.82	0.11	ND	0.18	0.024	
100-41-4	Ethylbenzene	0.16	0.82	0.12	0.038	0.19	0.027	J
179601-23-1	m,p-Xylenes	0.46	1.7	0.22	0.11	0.39	0.050	J
75-25-2	Bromoform	ND	0.83	0.17	ND	0.080	0.016	
100-42-5	Styrene	ND	0.82	0.13	ND	0.19	0.031	
95-47-6	o-Xylene	0.19	0.82	0.12	0.044	0.19	0.027	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.17	0.11	ND	0.025	0.017	
98-82-8	Cumene	ND	0.83	0.12	ND	0.17	0.024	
541-73-1	1,3-Dichlorobenzene	ND	0.82	0.12	ND	0.14	0.020	
106-46-7	1,4-Dichlorobenzene	ND	0.82	0.13	ND	0.14	0.021	
95-50-1	1,2-Dichlorobenzene	ND	0.83	0.12	ND	0.14	0.020	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.7	0.15	ND	0.18	0.016	
120-82-1	1,2,4-Trichlorobenzene	ND	1.7	0.20	ND	0.23	0.027	
79-20-9	Methyl Acetate	ND	0.77	0.37	ND	0.25	0.12	X
108-87-2	Methylcyclohexane	ND	0.77	0.40	ND	0.19	0.10	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS13\DATA\2023_03\27\03272319.D
 Acq On : 27 Mar 2023 14:46
 Sample : P2301250-032 (1000mL)
 Misc : S35-01202301

Vial: 6
 Operator: TZ
 Inst : MS13

T2 3/28/23

Quant Time: Mar 28 11:14:17 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.31	130	231293	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	9.37	114	1019821	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.88	54	196000	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.07	65	399396	13.012	ng	-0.04
Spiked Amount	12.500	Range	70 - 130	Recovery	=	104.08%
57) Toluene-d8 (SS2)	12.47	98	1165246	11.560	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.48%
73) Bromofluorobenzene (SS3)	16.85	174	435784	11.804	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.40%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	3.47	85	65702	1.551	ng	100
4) Chloromethane	3.61	50	6751	0.221	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	3.72	135	1196	0.056	ng	95
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	3.95	54	974	N.D.		
8) Bromomethane	4.14	94	277	N.D.		
9) Chloroethane	4.28	64	109	N.D.		
10) Ethanol	4.38	45	45031	2.741	ng	100
11) Acetonitrile	4.55	41	2983	0.070	ng	73
12) Acrolein	4.64	56	2000	0.147	ng	98
13) Acetone	4.73	58	67861	4.840	ng	# 79
14) Trichlorofluoromethane	4.86	101	28743	0.754	ng	98
15) 2-Propanol (Isopropanol)	4.95	45	17861	0.316	ng	77
16) Acrylonitrile	5.10	53	54	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.45	84	4680	0.228	ng	96
20) 3-Chloro-1-propene (Al...	5.51	41	1150	N.D.		
21) Trichlorotrifluoroethane	5.68	151	6323	0.315	ng	96
22) Carbon Disulfide	5.70	76	5822	0.072	ng	99
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	6.40	63	1758	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	6.52	86	1093	0.288	ng	# 71
27) 2-Butanone (MEK)	6.76	72	11387	0.915	ng	# 70
28) cis-1,2-Dichloroethene	7.16	61	1905	0.064	ng	90
29) Diisopropyl Ether	7.36	87	391	N.D.		
30) Ethyl Acetate	7.36	61	42580	5.203	ng	95
31) n-Hexane	7.39	57	8400	0.267	ng	96
32) Chloroform	7.43	83	5516	0.148	ng	94
34) Tetrahydrofuran (THF)	7.86	72	531	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.20	62	1315	N.D.		
38) 1,1,1-Trichloroethane	8.47	97	4861	0.144	ng	99
39) Isopropyl Acetate	9.37	61	29697	No Calib		
40) 1-Butanol	8.89	56	23511	No Calib	#	
41) Benzene	8.97	78	38874	0.490	ng	99
42) Carbon Tetrachloride	9.14	117	9440	0.317	ng	93
43) Cyclohexane	9.29	84	2011	0.069	ng	90
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	10.14	83	483	N.D.		
47) Trichloroethene	10.21	130	25374	1.092	ng	98
48) 1,4-Dioxane	10.20	88	181	N.D.		
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.	d	
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS13\DATA\2023_03\27\03272319.D
 Acq On : 27 Mar 2023 14:46
 Sample : P2301250-032 (1000mL)
 Misc : S35-01202301

Vial: 6
 Operator: TZ
 Inst : MS13

Quant Time: Mar 28 11:14:17 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

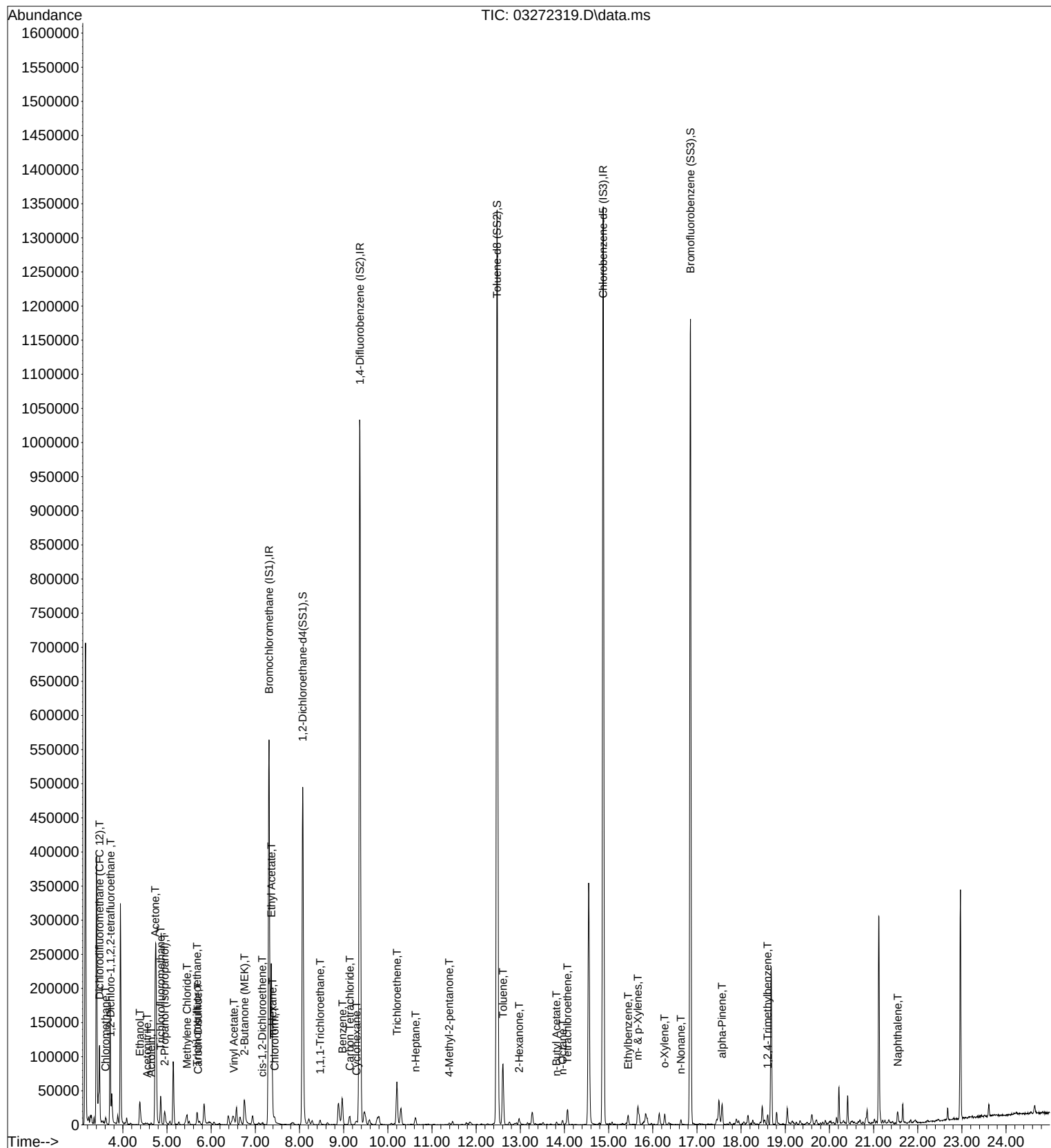
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.63	71	2624	0.137	ng	88
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.39	58	1012	0.059	ng #	88
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.61	91	76081	0.793	ng	100
59) 2-Hexanone	12.97	43	8731	0.187	ng	80
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.82	43	3792	0.072	ng	90
63) n-Octane	13.96	57	1142	0.061	ng	97
64) Tetrachloroethene	14.07	166	8249	0.283	ng	97
65) Chlorobenzene	14.92	112	110	N.D.		
66) Ethylbenzene	15.44	91	12122	0.106	ng	98
67) m- & p-Xylenes	15.66	91	27332	0.297	ng	96
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.13	104	1080	N.D.		
70) o-Xylene	16.27	91	11019	0.125	ng	100
71) n-Nonane	16.64	43	3117	0.073	ng	94
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	17.06	105	2056	N.D.		
75) alpha-Pinene	17.57	93	13653	0.276	ng	94
76) n-Propylbenzene	17.74	91	3268	N.D.		
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	3430	N.D.		
79) 1,3,5-Trimethylbenzene	18.06	105	2014	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.60	105	8077	0.090	ng	90
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	18.75	91	335	N.D.		
85) 1,3-Dichlorobenzene	18.78	146	251	N.D.		
86) 1,4-Dichlorobenzene	18.86	146	294	N.D.		
87) sec-Butylbenzene	18.95	105	515	N.D.		
88) 4-Isopropyltoluene (p-...	19.17	119	1764	N.D.		
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.31	146	179	N.D.		
91) d-Limonene	19.36	68	413	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.24	58	1417	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	628	N.D.		
95) Naphthalene	21.55	128	5123	0.053	ng	97
96) n-Dodecane	19.04	58	485	No Calib	#	
97) Hexachlorobutadiene	21.99	225	127	N.D.		
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	18.59	119	1087	N.D.		
100) n-Butylbenzene	19.70	91	2568	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\27\03272319.D
Acq On : 27 Mar 2023 14:46
Sample : P2301250-032 (1000mL)
Misc : S35-01202301

Vial: 6
Operator: TZ
Inst : MS13

Quant Time: Mar 28 11:14:17 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\27\03272319.D
 Acq On : 27 Mar 2023 14:46
 Sample : P2301250-032 (1000mL)
 Misc : S35-01202301

Vial: 6
 Operator: TZ
 Inst : MS13

Tz 3/28/23

Quant Time: Mar 28 11:14:17 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.31	130	231293	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	9.37	114	1019821	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.88	54	196000	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.07	65	399396	13.012	ng	-0.04
Spiked Amount	12.500	Range	70 - 130	Recovery	=	104.08%
57) Toluene-d8 (SS2)	12.47	98	1165246	11.560	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.48%
73) Bromofluorobenzene (SS3)	16.85	174	435784	11.804	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.40%

Target Compounds

						Qvalue
3) Dichlorodifluoromethan...	3.47	85	65702	1.551	ng	100
4) Chloromethane	3.61	50	6751	0.221	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	3.72	135	1196	0.056	ng	95
10) Ethanol	4.38	45	45031	2.741	ng	100
11) Acetonitrile	4.55	41	2983	0.070	ng	73
12) Acrolein	4.64	56	2000	0.147	ng	98
13) Acetone	4.73	58	67861	4.840	ng	# 79
14) Trichlorofluoromethane	4.86	101	28743	0.754	ng	98
15) 2-Propanol (Isopropanol)	4.95	45	17861	0.316	ng	77
19) Methylene Chloride	5.45	84	4680	0.228	ng	96
21) Trichlorotrifluoroethane	5.68	151	6323	0.315	ng	96
22) Carbon Disulfide	5.70	76	5822	0.072	ng	99
26) Vinyl Acetate	6.52	86	1093	0.288	ng	# 71
27) 2-Butanone (MEK)	6.76	72	11387	0.915	ng	# 70
28) cis-1,2-Dichloroethene	7.16	61	1905	0.064	ng	90
30) Ethyl Acetate	7.36	61	42580	5.203	ng	95
31) n-Hexane	7.39	57	8400	0.267	ng	96
32) Chloroform	7.43	83	5516	0.148	ng	94
38) 1,1,1-Trichloroethane	8.47	97	4861	0.144	ng	99
41) Benzene	8.97	78	38874	0.490	ng	99
42) Carbon Tetrachloride	9.14	117	9440	0.317	ng	93
43) Cyclohexane	9.29	84	2011	0.069	ng	90
47) Trichloroethene	10.21	130	25374	1.092	ng	98
51) n-Heptane	10.63	71	2624	0.137	ng	88
53) 4-Methyl-2-pentanone	11.39	58	1012	0.059	ng	# 88
58) Toluene	12.61	91	76081	0.793	ng	100
59) 2-Hexanone	12.97	43	8731	0.187	ng	80
62) n-Butyl Acetate	13.82	43	3792	0.072	ng	90
63) n-Octane	13.96	57	1142	0.061	ng	97
64) Tetrachloroethene	14.07	166	8249	0.283	ng	97
66) Ethylbenzene	15.44	91	12122	0.106	ng	98
67) m- & p-Xylenes	15.66	91	27332	0.297	ng	96
70) o-Xylene	16.27	91	11019	0.125	ng	100
71) n-Nonane	16.64	43	3117	0.073	ng	94
75) alpha-Pinene	17.57	93	13653	0.276	ng	94
82) 1,2,4-Trimethylbenzene	18.60	105	8077	0.090	ng	90
95) Naphthalene	21.55	128	5123	0.053	ng	97

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

Data File : I:\MS13\DATA\2023_03\27\03272319.D
Acq On : 27 Mar 2023 14:46
Sample : P2301250-032 (1000mL)
Misc : S35-01202301

Vial: 6
Operator: TZ
Inst : MS13

Quant Time: Mar 28 11:14:17 2023

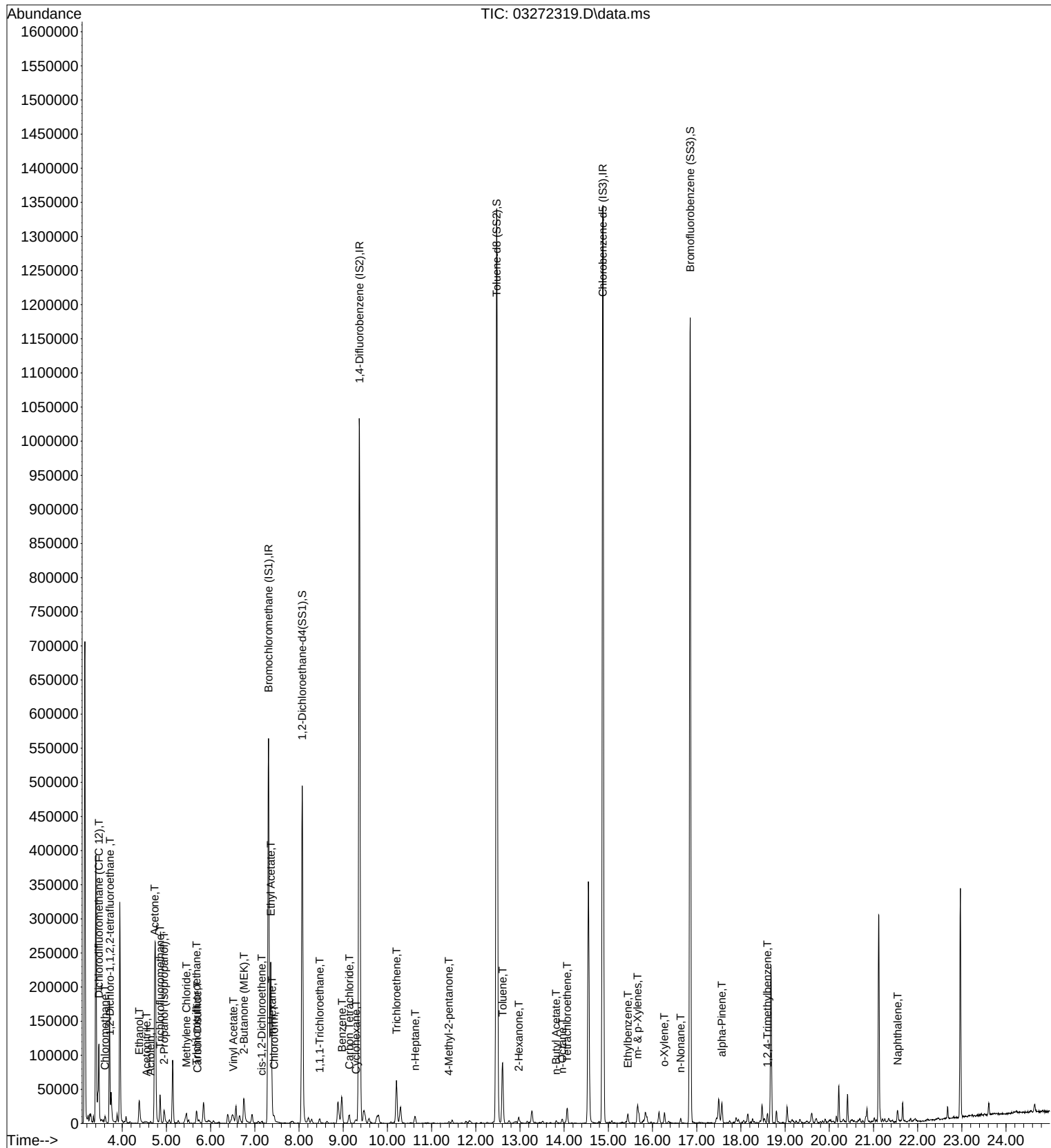
Quant Method : I:\MS13\METHODS\R13022223.M

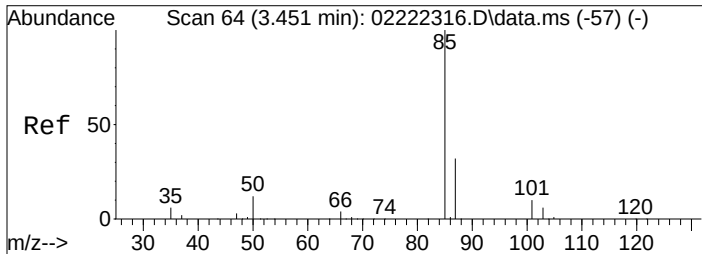
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

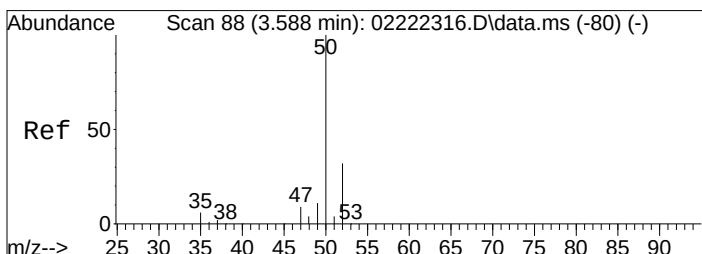
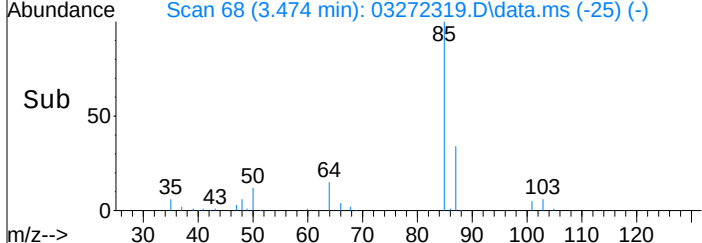
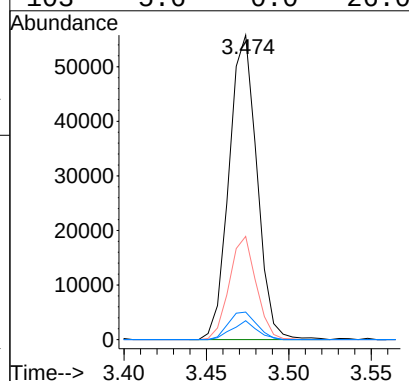
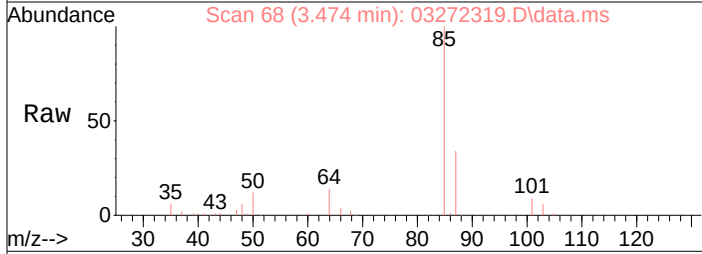
DataAcq Meth:T015.M





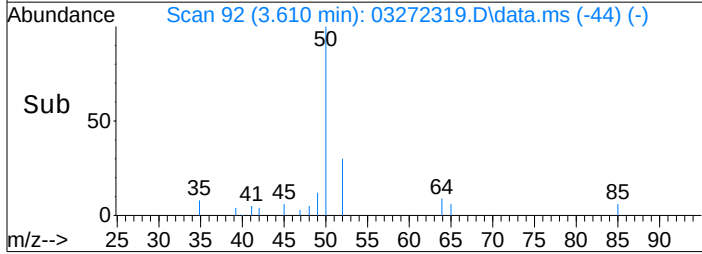
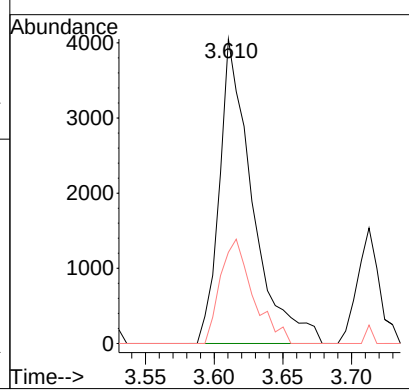
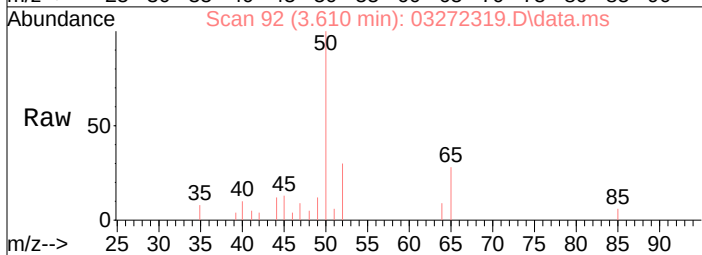
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.55 ng
 RT: 3.47 min Scan# 68
 Delta R.T. -0.004 min
 Lab File: 03272319.D
 Acq: 27 Mar 2023 14:46

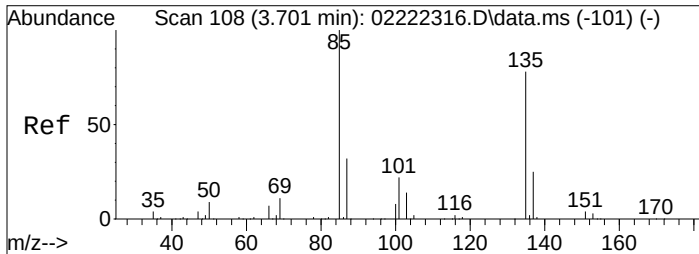
Tgt Ion:	85	Resp:	65702
Ion Ratio		Lower	Upper
85	100		
87	32.6	12.4	52.4
101	9.2	0.0	29.4
103	5.6	0.0	26.0



#4
 Chloromethane
 Concen: 0.22 ng
 RT: 3.61 min Scan# 92
 Delta R.T. 0.023 min
 Lab File: 03272319.D
 Acq: 27 Mar 2023 14:46

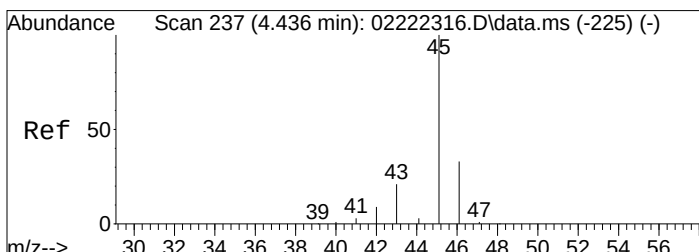
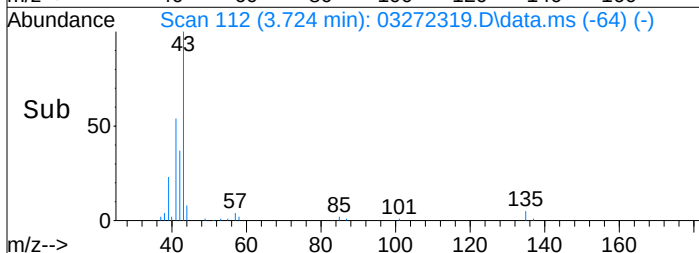
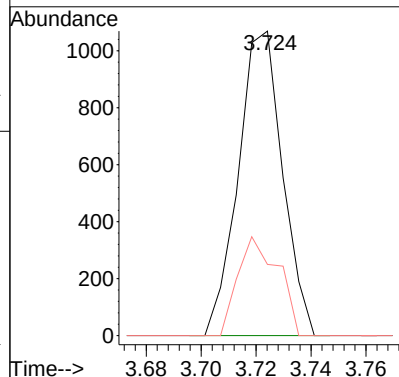
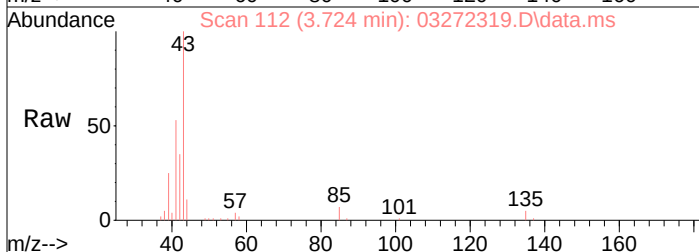
Tgt Ion:	50	Resp:	6751
Ion Ratio		Lower	Upper
50	100		
52	33.9	13.0	53.0





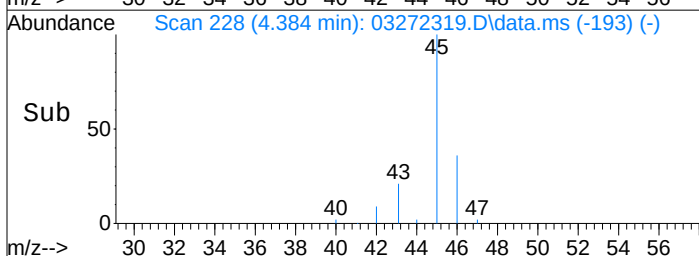
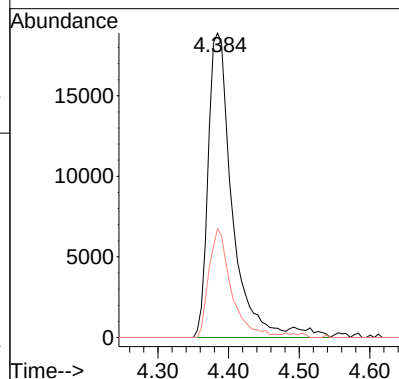
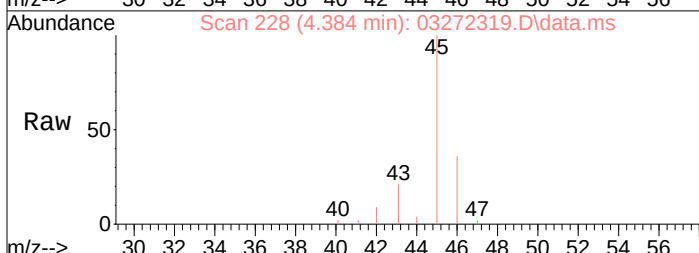
#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.06 ng
 RT: 3.72 min Scan# 112
 Delta R.T. 0.023 min
 Lab File: 03272319.D
 Acq: 27 Mar 2023 14:46

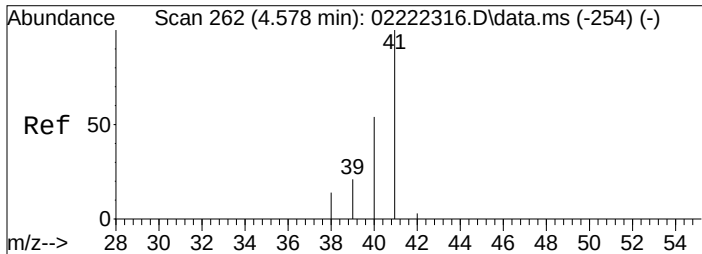
Tgt Ion: 135 Resp: 1196
 Ion Ratio Lower Upper
 135 100
 137 29.7 12.2 52.2



#10
 Ethanol
 Concen: 2.74 ng
 RT: 4.38 min Scan# 228
 Delta R.T. -0.051 min
 Lab File: 03272319.D
 Acq: 27 Mar 2023 14:46

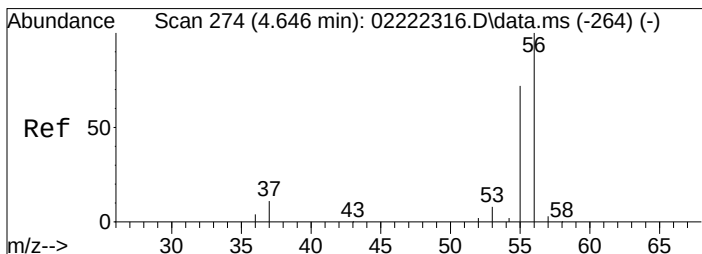
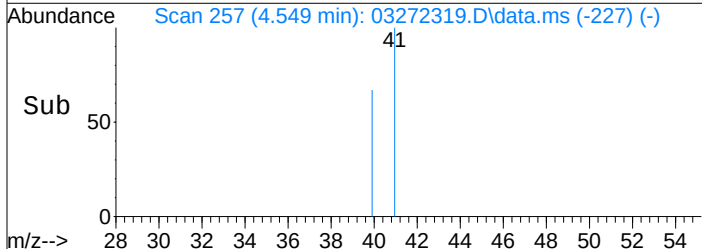
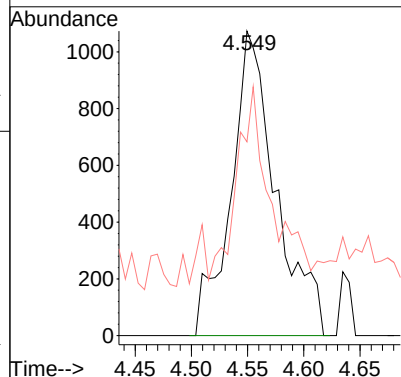
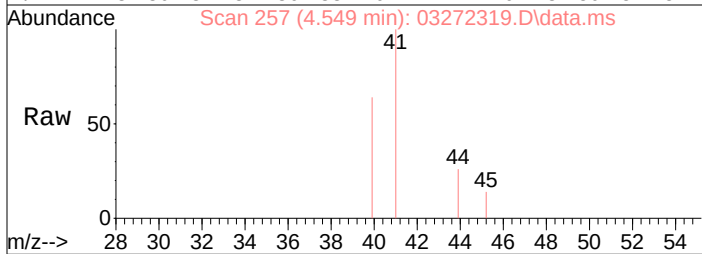
Tgt Ion: 45 Resp: 45031
 Ion Ratio Lower Upper
 45 100
 46 34.1 13.8 53.8





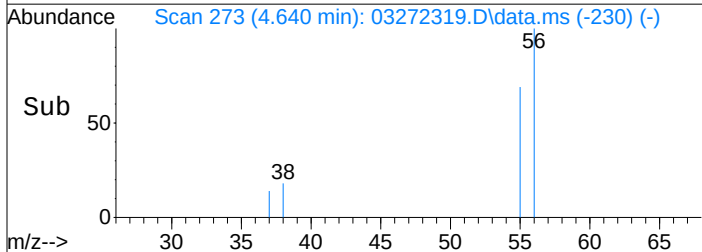
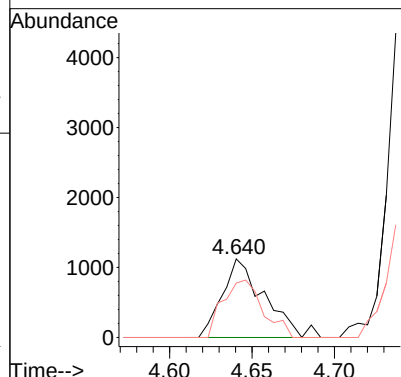
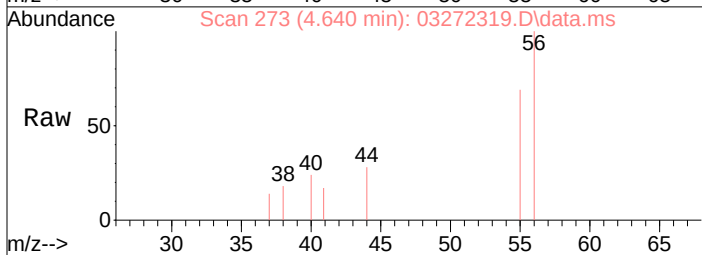
#11
 Acetonitrile
 Concen: 0.07 ng
 RT: 4.55 min Scan# 257
 Delta R.T. -0.028 min
 Lab File: 03272319.D
 Acq: 27 Mar 2023 14:46

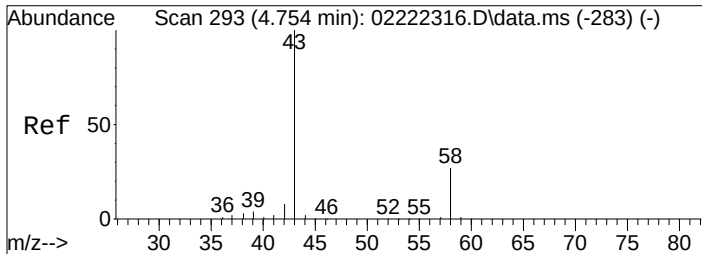
Tgt Ion:	41	Resp:	2983
Ion Ratio	Lower	Upper	
41	100		
40	35.2	34.4	74.4



#12
 Acrolein
 Concen: 0.15 ng
 RT: 4.64 min Scan# 273
 Delta R.T. -0.006 min
 Lab File: 03272319.D
 Acq: 27 Mar 2023 14:46

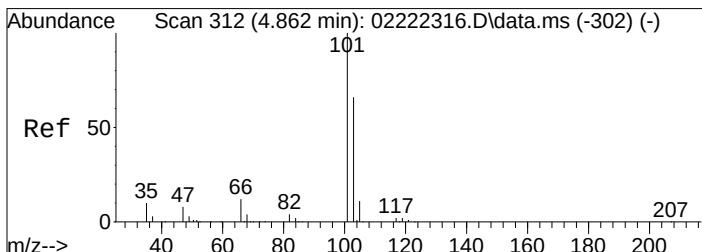
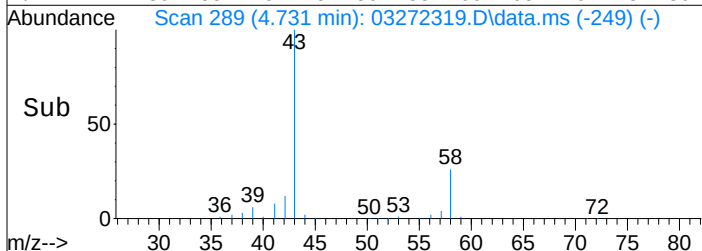
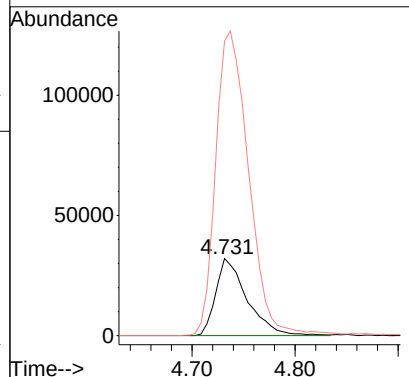
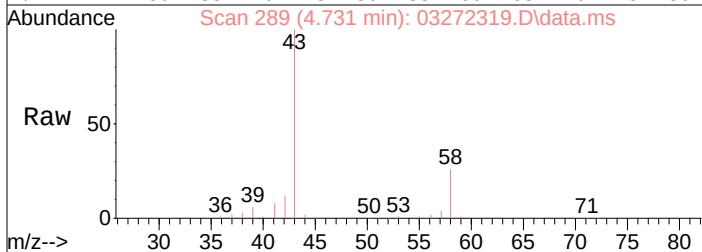
Tgt Ion:	56	Resp:	2000
Ion Ratio	Lower	Upper	
56	100		
55	69.1	50.9	90.9





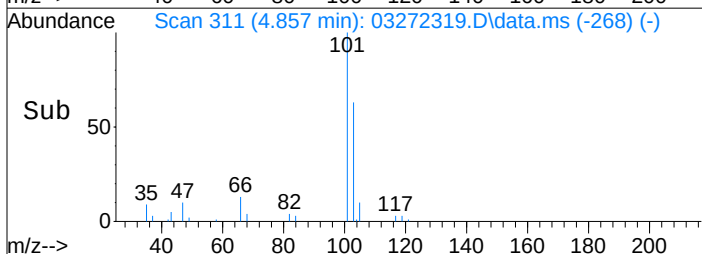
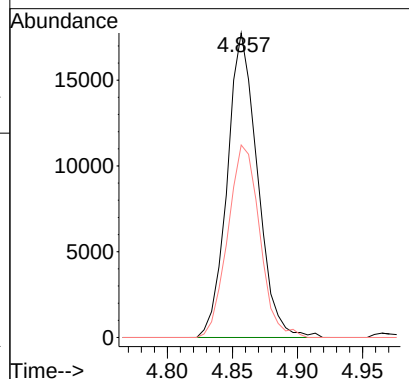
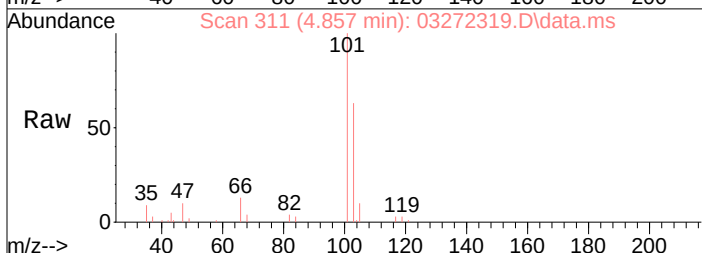
#13
 Acetone
 Concen: 4.84 ng
 RT: 4.73 min Scan# 289
 Delta R.T. -0.023 min
 Lab File: 03272319.D
 Acq: 27 Mar 2023 14:46

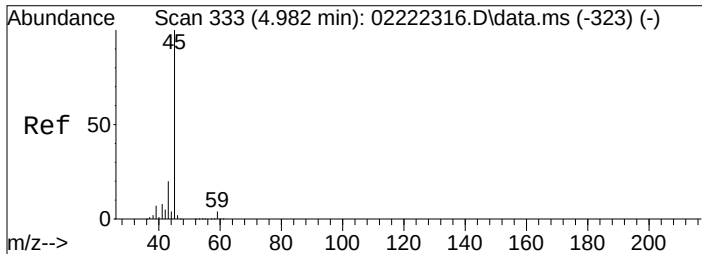
Tgt Ion	58	43	Resp	67861	Lower	Upper
Ion Ratio	100	415.4			337.8	397.8#



#14
 Trichlorofluoromethane
 Concen: 0.75 ng
 RT: 4.86 min Scan# 311
 Delta R.T. -0.006 min
 Lab File: 03272319.D
 Acq: 27 Mar 2023 14:46

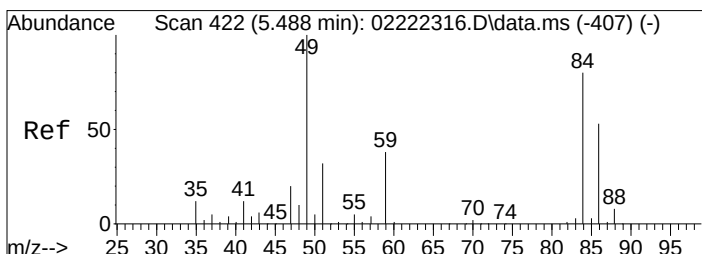
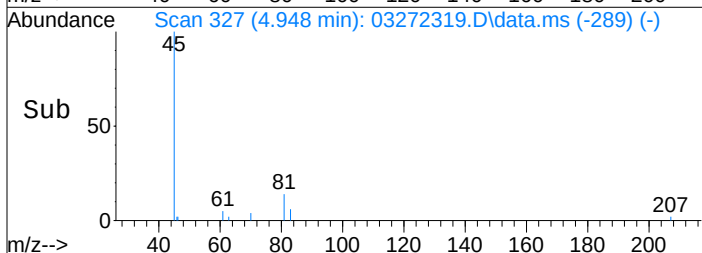
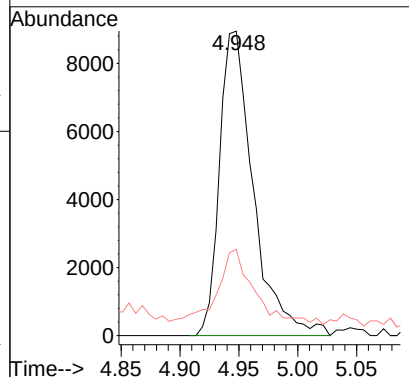
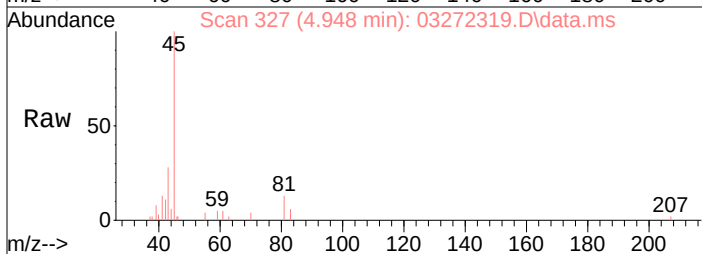
Tgt Ion	101	103	Resp	28743	Lower	Upper
Ion Ratio	100	66.5			45.2	85.2





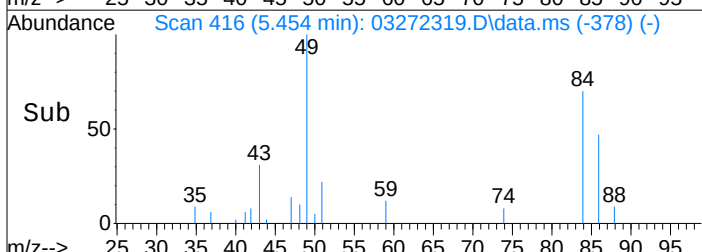
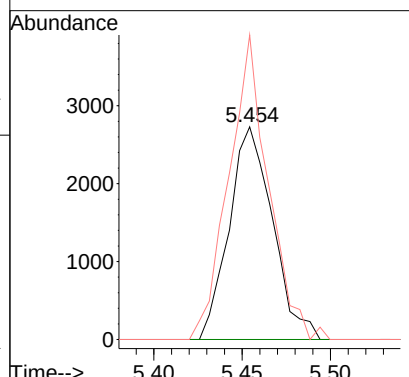
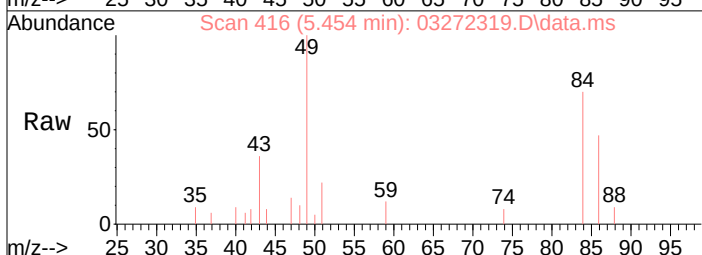
#15
 2-Propanol (Isopropanol)
 Concen: 0.32 ng
 RT: 4.95 min Scan# 327
 Delta R.T. -0.034 min
 Lab File: 03272319.D
 Acq: 27 Mar 2023 14:46

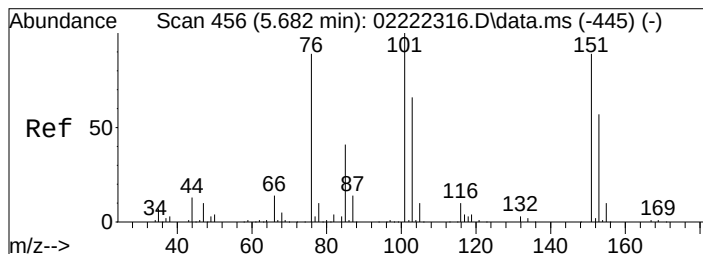
Tgt Ion: 45 Resp: 17861
 Ion Ratio Lower Upper
 45 100
 43 30.2 0.0 39.7



#19
 Methylene Chloride
 Concen: 0.23 ng
 RT: 5.45 min Scan# 416
 Delta R.T. -0.034 min
 Lab File: 03272319.D
 Acq: 27 Mar 2023 14:46

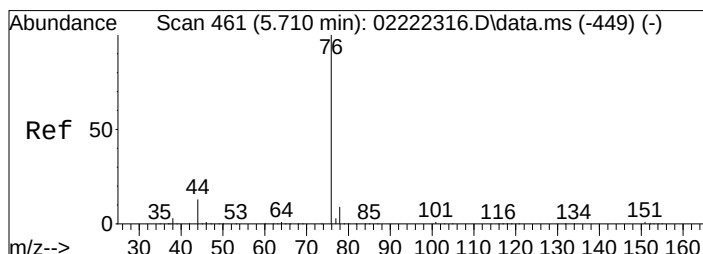
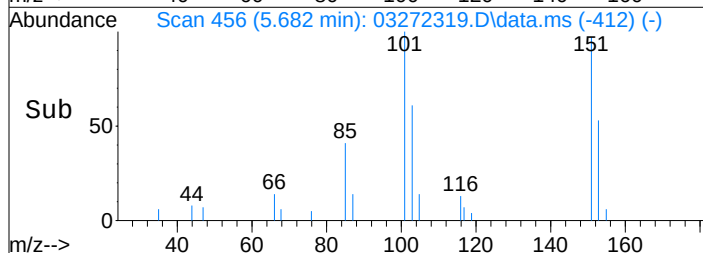
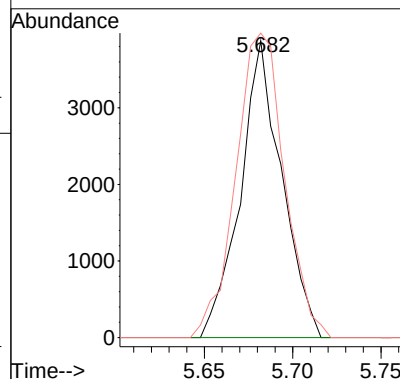
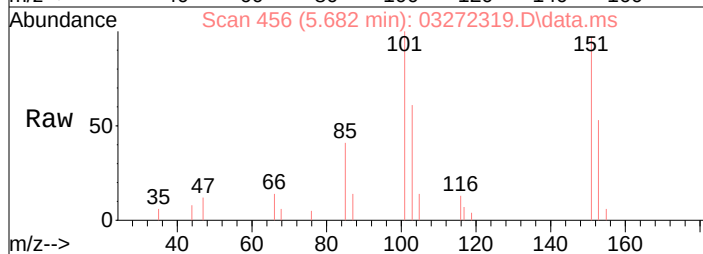
Tgt Ion: 84 Resp: 4680
 Ion Ratio Lower Upper
 84 100
 49 130.3 101.3 151.3





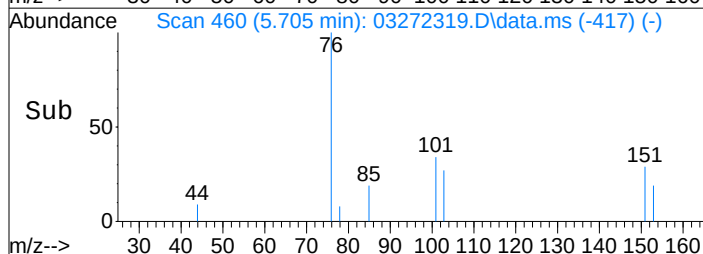
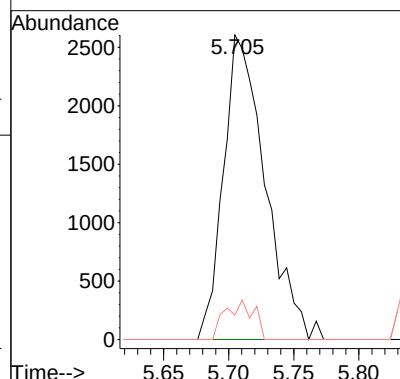
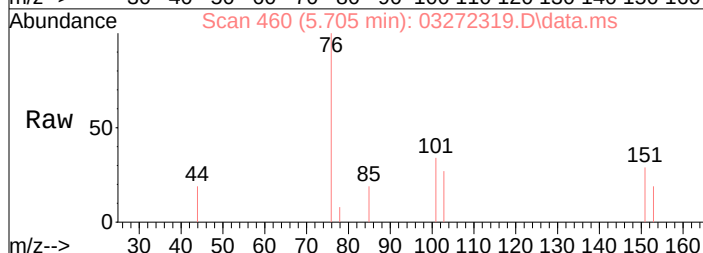
#21
 Trichlorotrifluoroethane
 Concen: 0.32 ng
 RT: 5.68 min Scan# 456
 Delta R.T. -0.000 min
 Lab File: 03272319.D
 Acq: 27 Mar 2023 14:46

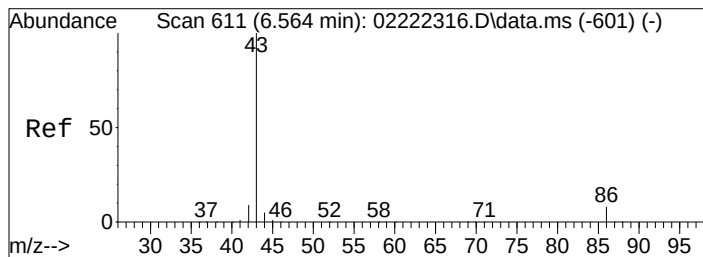
Tgt Ion: 151 Resp: 6323
 Ion Ratio Lower Upper
 151 100
 101 120.9 96.3 136.3



#22
 Carbon Disulfide
 Concen: 0.07 ng
 RT: 5.70 min Scan# 460
 Delta R.T. -0.006 min
 Lab File: 03272319.D
 Acq: 27 Mar 2023 14:46

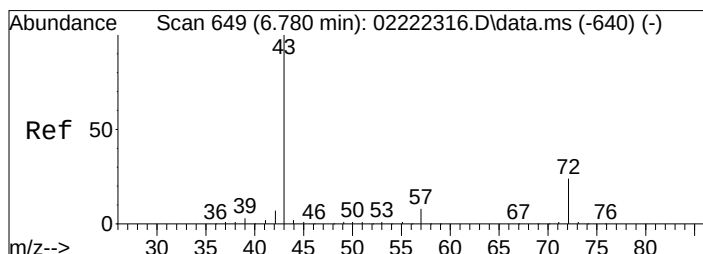
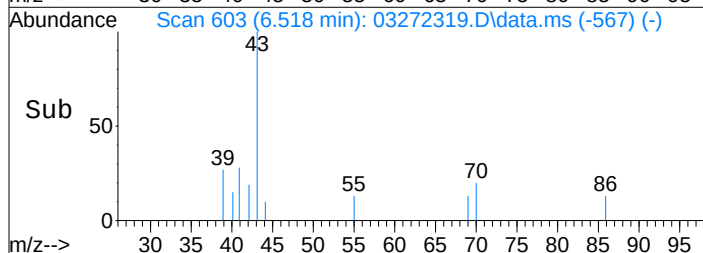
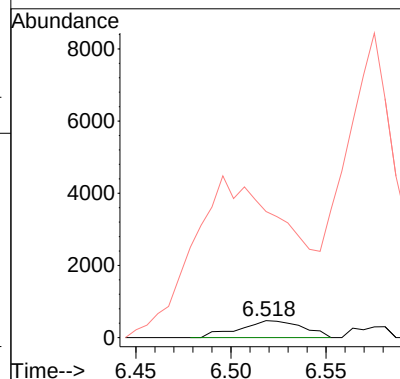
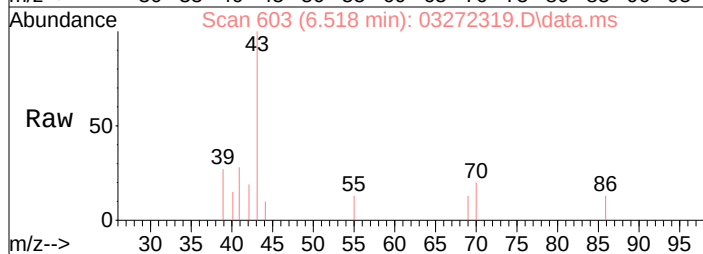
Tgt Ion: 76 Resp: 5822
 Ion Ratio Lower Upper
 76 100
 78 8.8 0.0 29.3





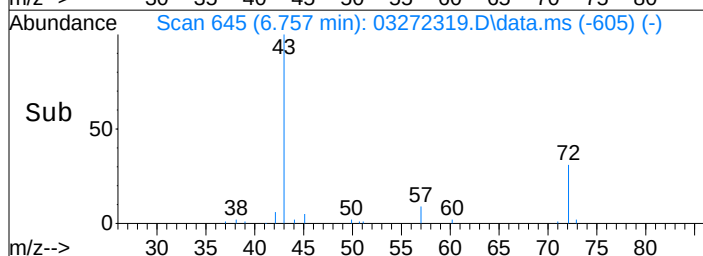
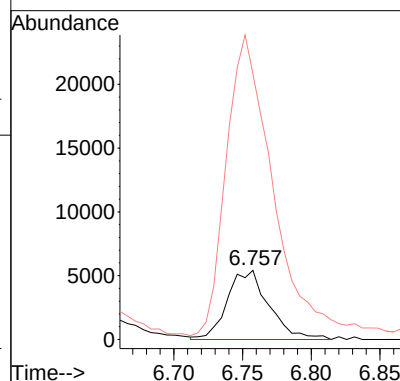
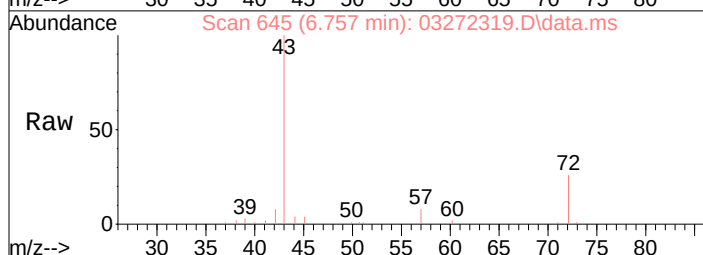
#26
 Vinyl Acetate
 Concen: 0.29 ng
 RT: 6.52 min Scan# 603
 Delta R.T. -0.046 min
 Lab File: 03272319.D
 Acq: 27 Mar 2023 14:46

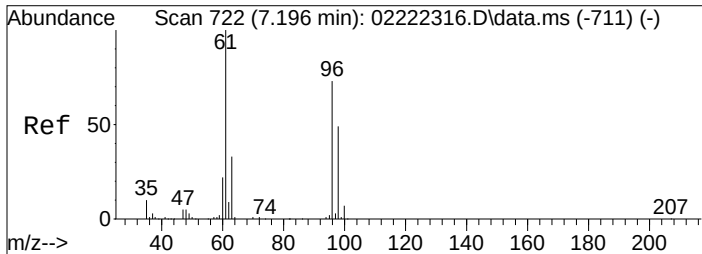
Tgt Ion	86	Resp	1093
Ion Ratio	86	100	
	43	1469.7	1292.1 1332.1#



#27
 2-Butanone (MEK)
 Concen: 0.91 ng
 RT: 6.76 min Scan# 645
 Delta R.T. -0.023 min
 Lab File: 03272319.D
 Acq: 27 Mar 2023 14:46

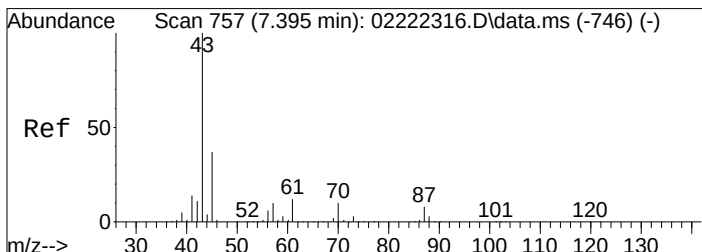
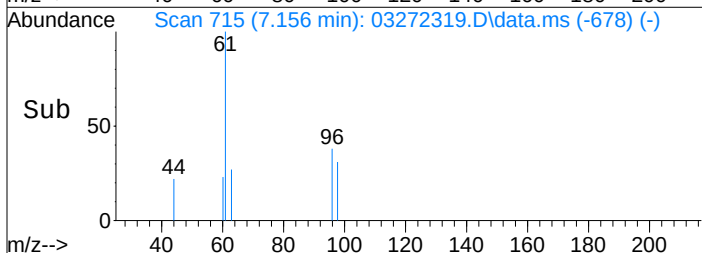
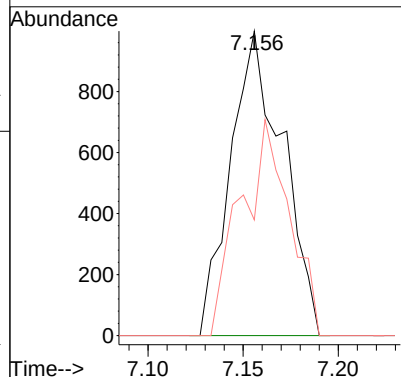
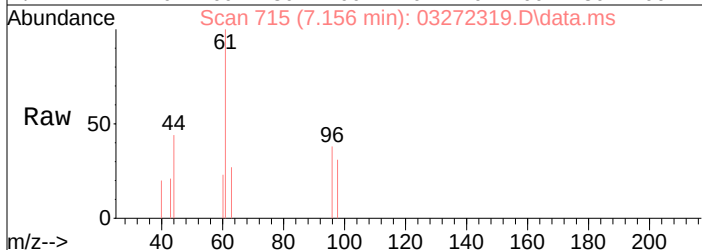
Tgt Ion	72	Resp	11387
Ion Ratio	72	100	
	43	493.6	400.5 440.5#





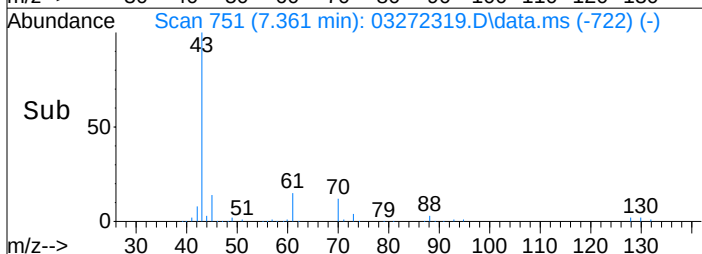
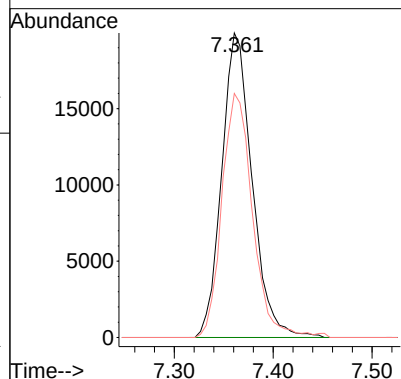
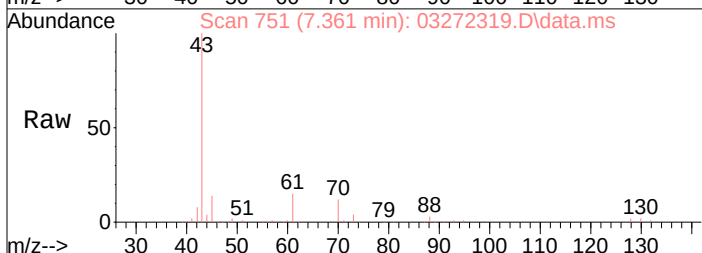
#28
 cis-1,2-Dichloroethene
 Concen: 0.06 ng
 RT: 7.16 min Scan# 715
 Delta R.T. -0.040 min
 Lab File: 03272319.D
 Acq: 27 Mar 2023 14:46

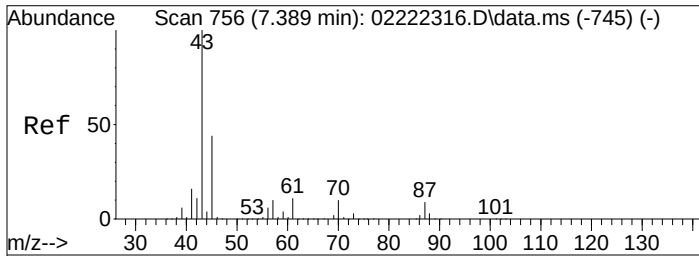
Tgt Ion:	61	Resp:	1905
Ion Ratio		Lower	Upper
61	100		
96	66.2	54.5	94.5



#30
 Ethyl Acetate
 Concen: 5.20 ng
 RT: 7.36 min Scan# 751
 Delta R.T. -0.034 min
 Lab File: 03272319.D
 Acq: 27 Mar 2023 14:46

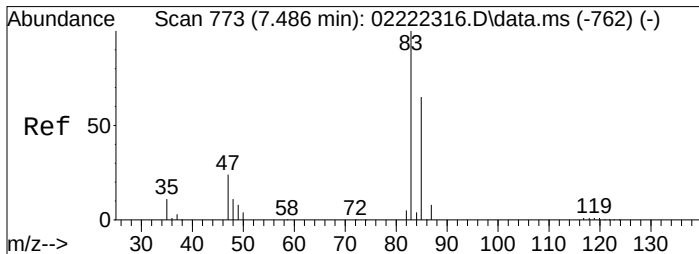
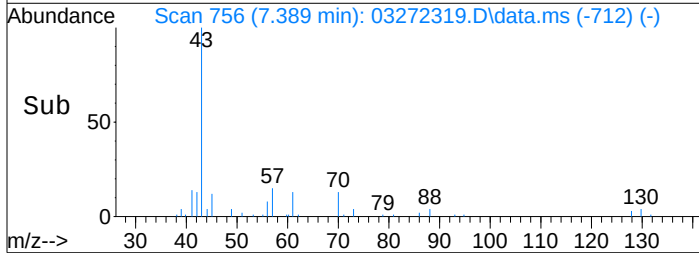
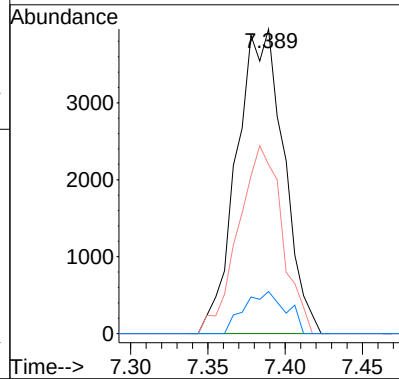
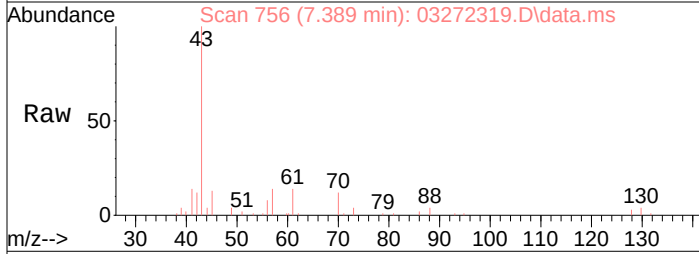
Tgt Ion:	61	Resp:	42580
Ion Ratio		Lower	Upper
61	100		
70	80.9	65.6	105.6





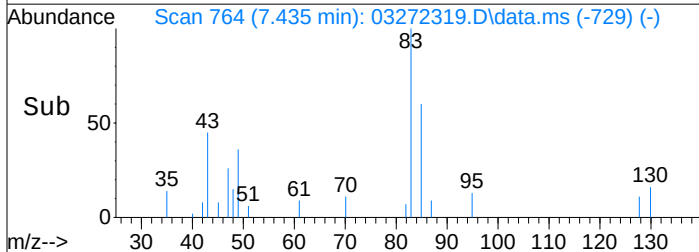
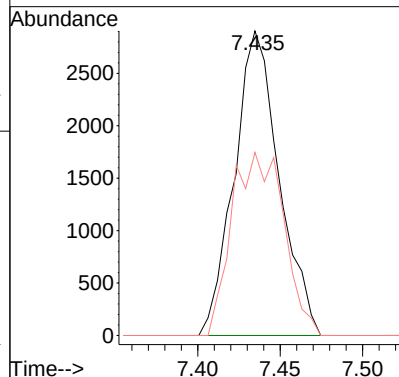
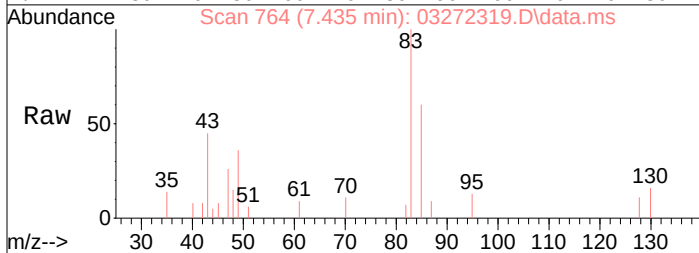
#31
n-Hexane
Concen: 0.27 ng
RT: 7.39 min Scan# 756
Delta R.T. -0.000 min
Lab File: 03272319.D
Acq: 27 Mar 2023 14:46

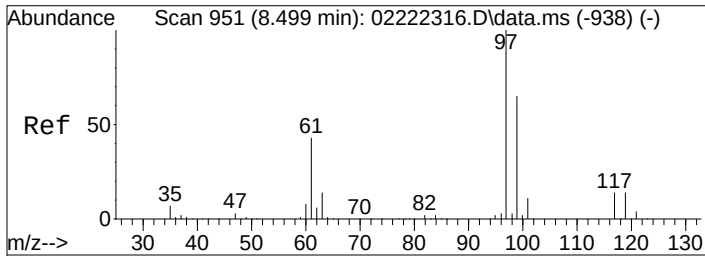
Tgt Ion: 57 Resp: 8400
Ion Ratio Lower Upper
57 100
56 57.6 44.0 66.0
86 12.3 11.5 17.3



#32
Chloroform
Concen: 0.15 ng
RT: 7.43 min Scan# 764
Delta R.T. -0.051 min
Lab File: 03272319.D
Acq: 27 Mar 2023 14:46

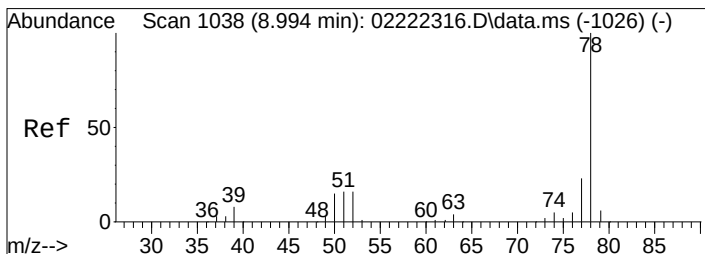
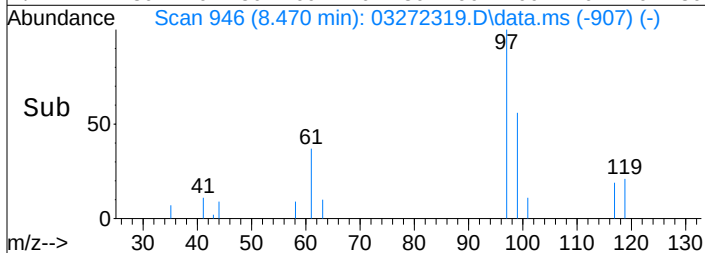
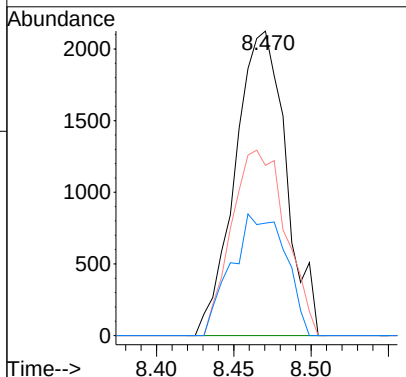
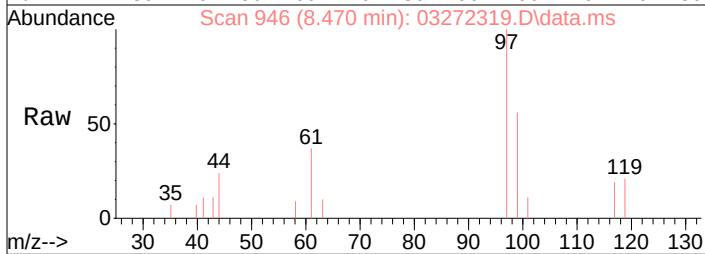
Tgt Ion: 83 Resp: 5516
Ion Ratio Lower Upper
83 100
85 69.5 45.0 85.0





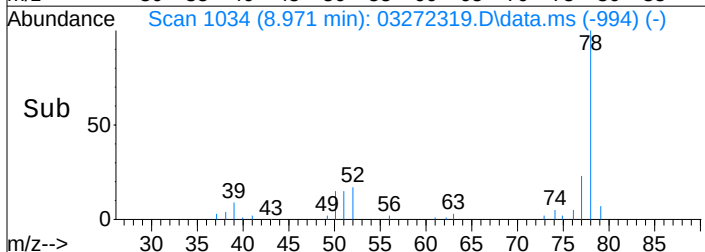
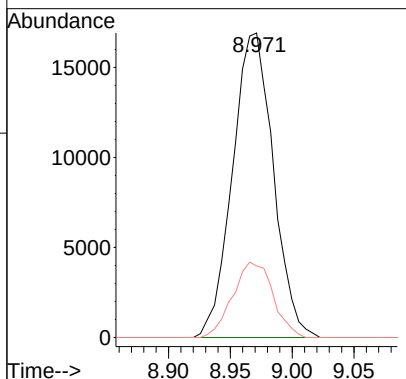
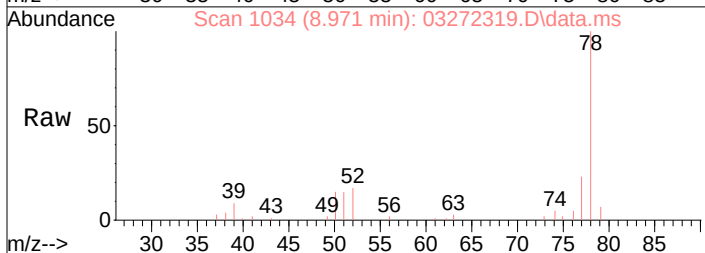
#38
 1,1,1-Trichloroethane
 Concen: 0.14 ng
 RT: 8.47 min Scan# 946
 Delta R.T. -0.028 min
 Lab File: 03272319.D
 Acq: 27 Mar 2023 14:46

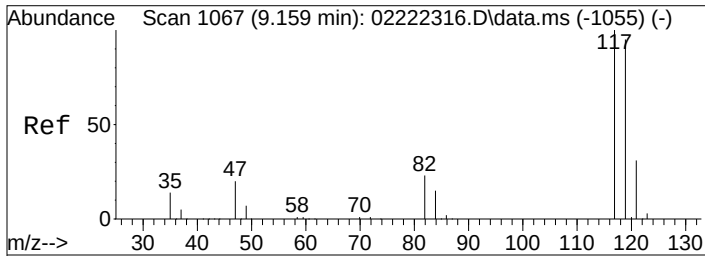
Tgt Ion: 97 Resp: 4861
 Ion Ratio Lower Upper
 97 100
 99 65.2 44.9 84.9
 61 42.4 23.5 63.5



#41
 Benzene
 Concen: 0.49 ng
 RT: 8.97 min Scan# 1034
 Delta R.T. -0.023 min
 Lab File: 03272319.D
 Acq: 27 Mar 2023 14:46

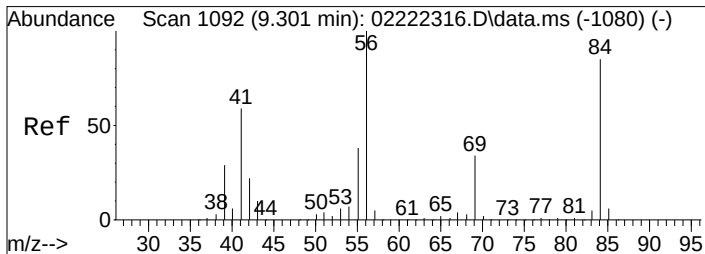
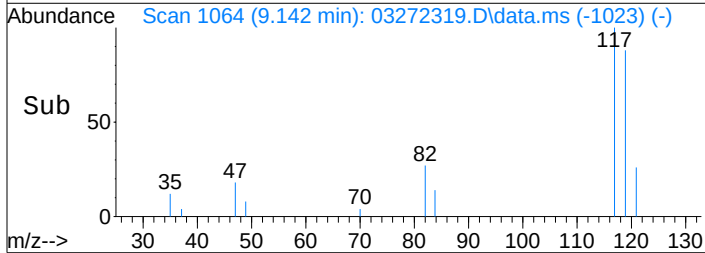
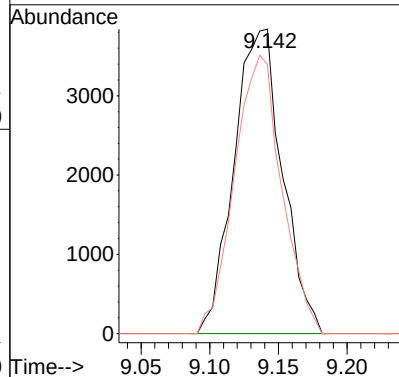
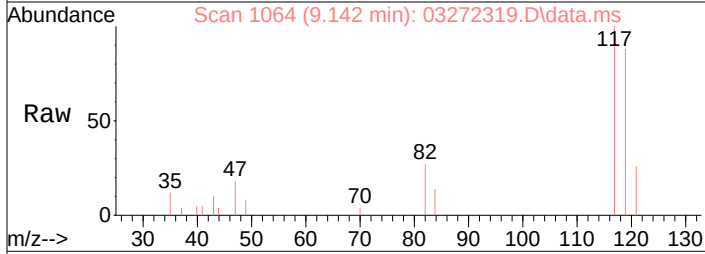
Tgt Ion: 78 Resp: 38874
 Ion Ratio Lower Upper
 78 100
 77 24.4 3.7 43.7





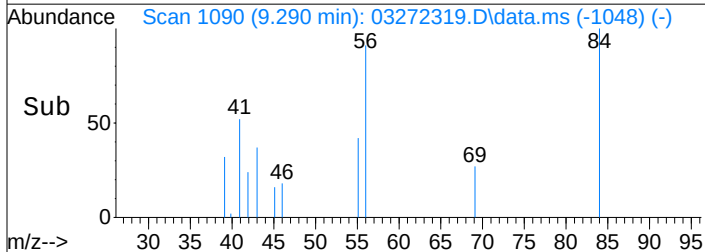
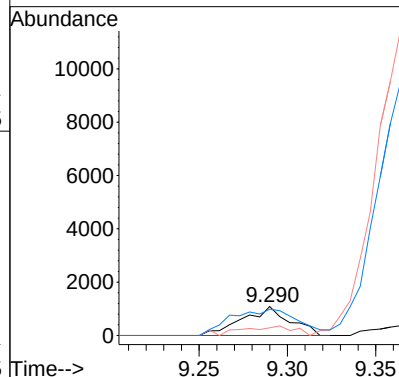
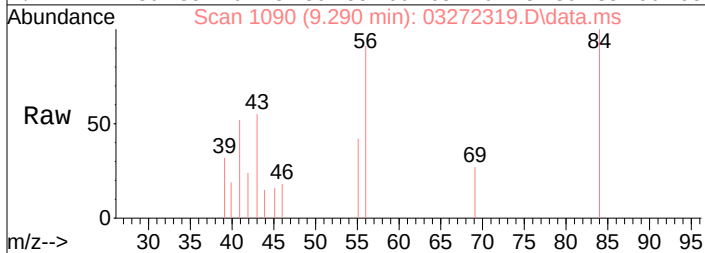
#42
Carbon Tetrachloride
Concen: 0.32 ng
RT: 9.14 min Scan# 1064
Delta R.T. -0.017 min
Lab File: 03272319.D
Acq: 27 Mar 2023 14:46

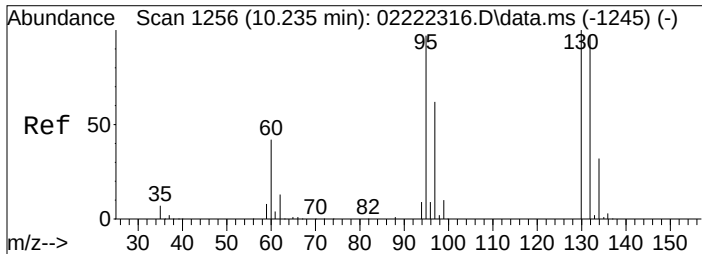
Tgt Ion: 117 Resp: 9440
Ion Ratio Lower Upper
117 100
119 89.3 75.7 115.7



#43
Cyclohexane
Concen: 0.07 ng
RT: 9.29 min Scan# 1090
Delta R.T. -0.011 min
Lab File: 03272319.D
Acq: 27 Mar 2023 14:46

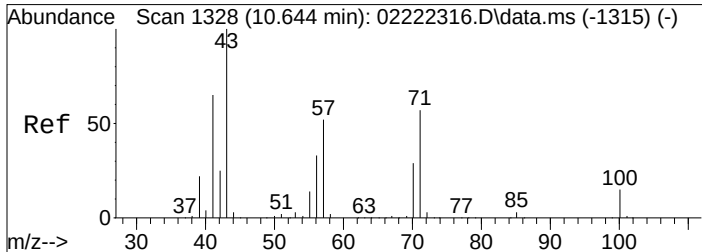
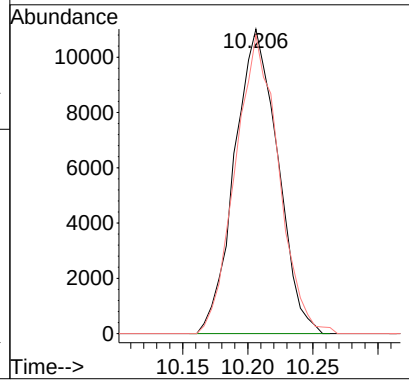
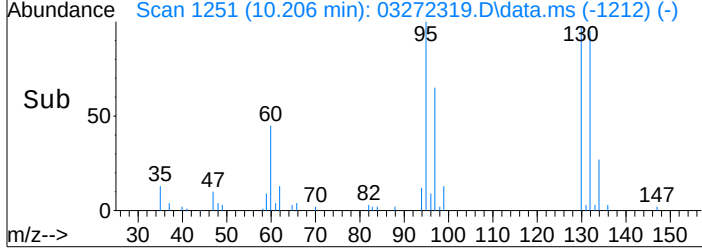
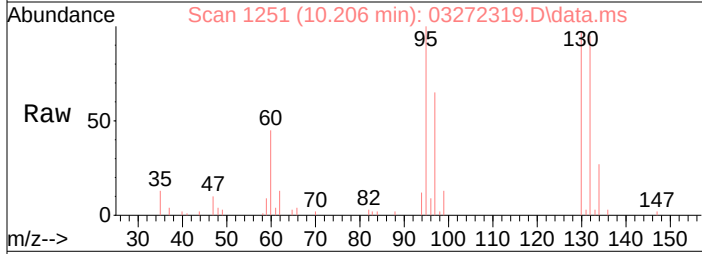
Tgt Ion: 84 Resp: 2011
Ion Ratio Lower Upper
84 100
69 37.7 20.0 60.0
56 131.7 98.5 138.5





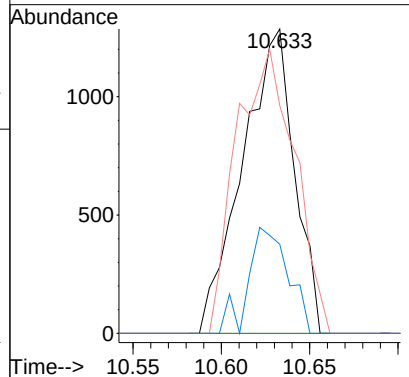
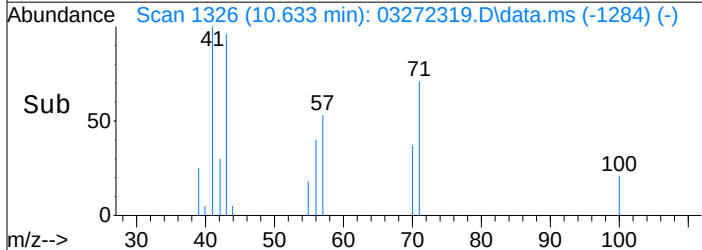
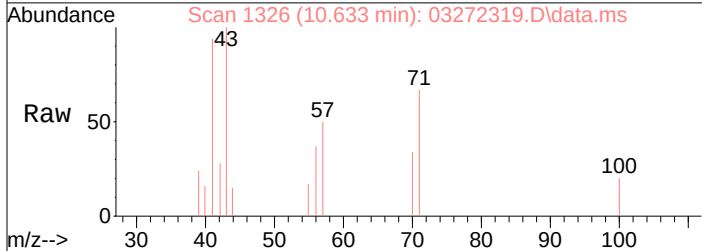
#47
 Trichloroethene
 Concen: 1.09 ng
 RT: 10.21 min Scan# 1251
 Delta R.T. -0.028 min
 Lab File: 03272319.D
 Acq: 27 Mar 2023 14:46

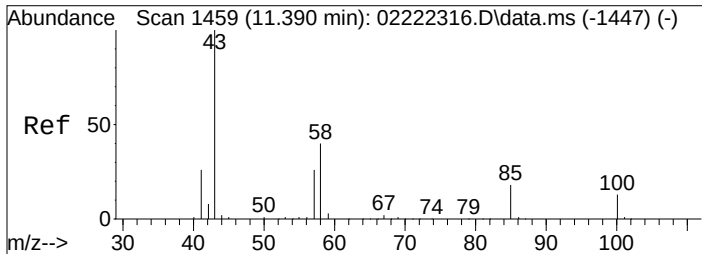
Tgt Ion:	130	Resp:	25374
Ion Ratio		Lower	Upper
130	100		
132	98.4	76.3	116.3



#51
 n-Heptane
 Concen: 0.14 ng
 RT: 10.63 min Scan# 1326
 Delta R.T. -0.011 min
 Lab File: 03272319.D
 Acq: 27 Mar 2023 14:46

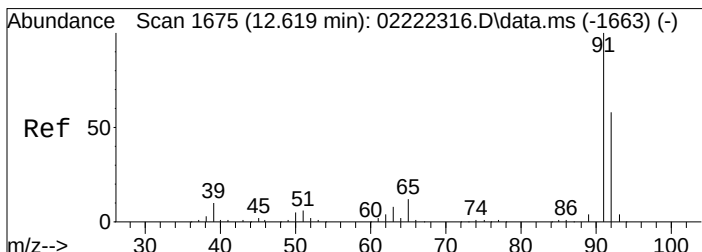
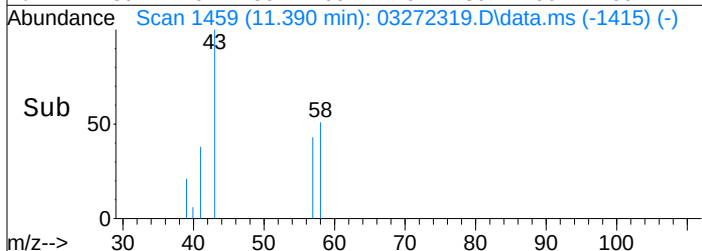
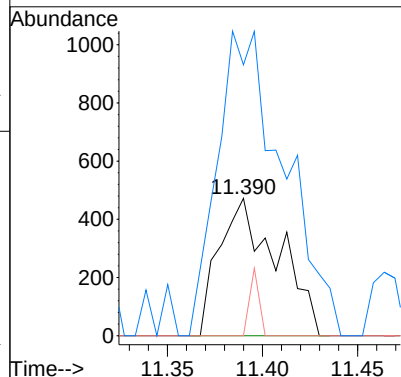
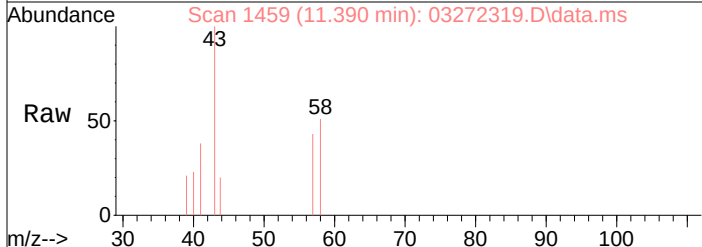
Tgt Ion:	71	Resp:	2624
Ion Ratio		Lower	Upper
71	100		
57	105.3	71.7	111.7
100	26.9	5.8	45.8





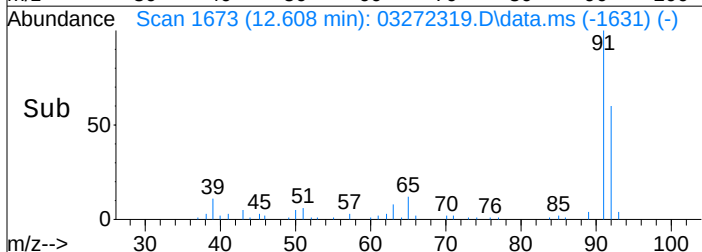
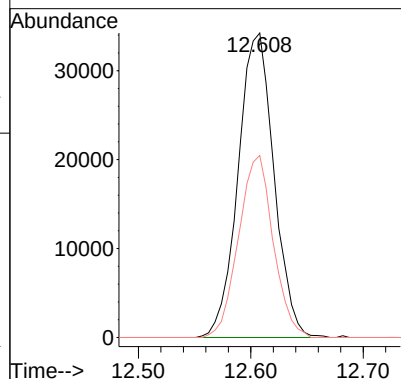
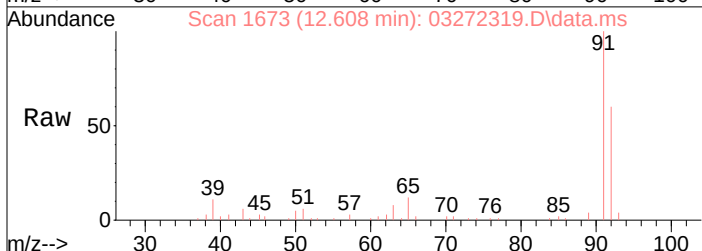
#53
 4-Methyl-2-pentanone
 Concen: 0.06 ng
 RT: 11.39 min Scan# 1459
 Delta R.T. -0.000 min
 Lab File: 03272319.D
 Acq: 27 Mar 2023 14:46

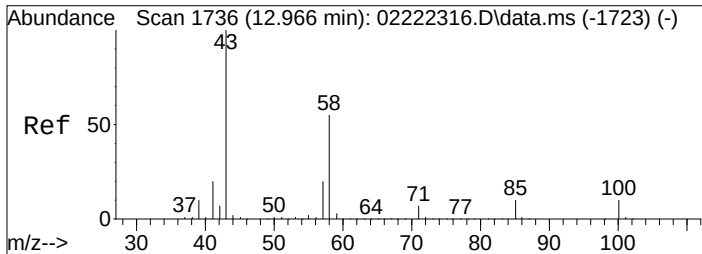
Tgt Ion:	58	Resp:	1012
Ion Ratio	Lower	Upper	
58	100		
85	0.0	38.6	58.0#
43	252.0	202.2	303.2



#58
 Toluene
 Concen: 0.79 ng
 RT: 12.61 min Scan# 1673
 Delta R.T. -0.011 min
 Lab File: 03272319.D
 Acq: 27 Mar 2023 14:46

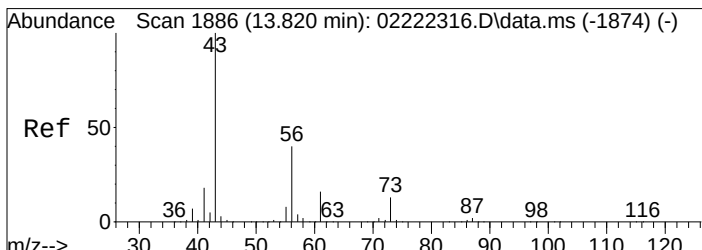
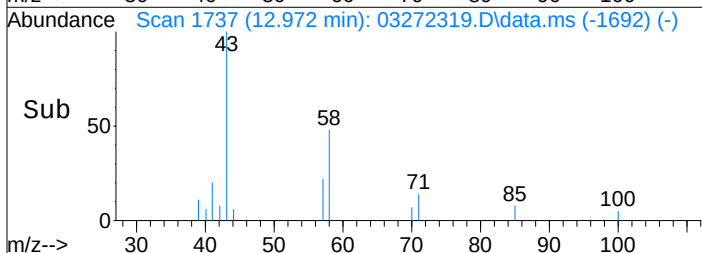
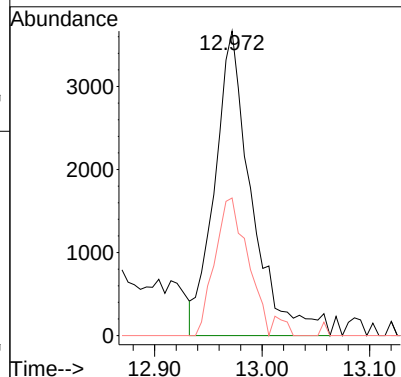
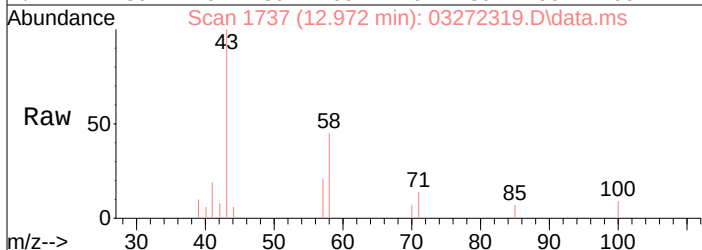
Tgt Ion:	91	Resp:	76081
Ion Ratio	Lower	Upper	
91	100		
92	57.8	38.0	78.0





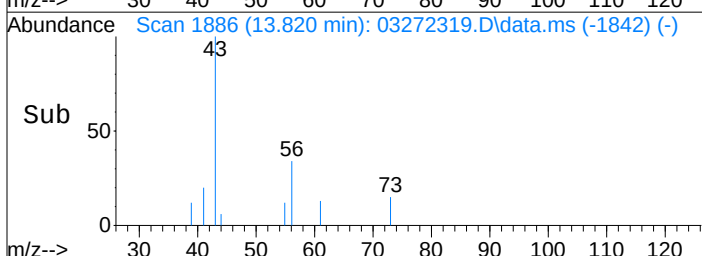
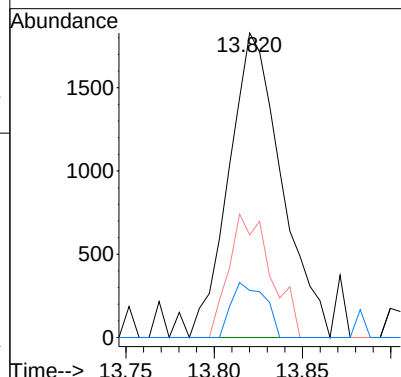
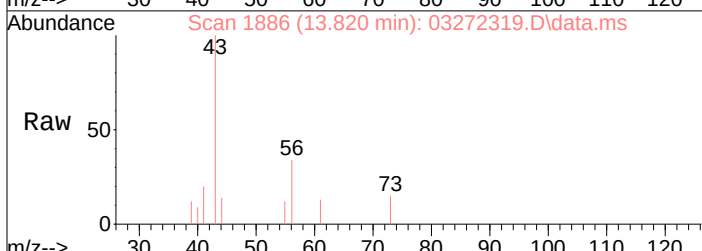
#59
 2-Hexanone
 Concen: 0.19 ng
 RT: 12.97 min Scan# 1737
 Delta R.T. 0.006 min
 Lab File: 03272319.D
 Acq: 27 Mar 2023 14:46

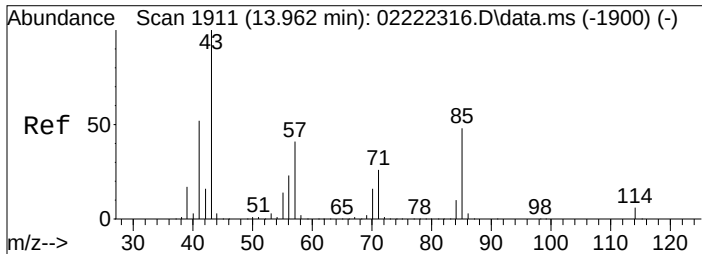
Tgt Ion: 43 Resp: 8731
 Ion Ratio Lower Upper
 43 100
 58 40.1 34.5 74.5



#62
 n-Butyl Acetate
 Concen: 0.07 ng
 RT: 13.82 min Scan# 1886
 Delta R.T. -0.000 min
 Lab File: 03272319.D
 Acq: 27 Mar 2023 14:46

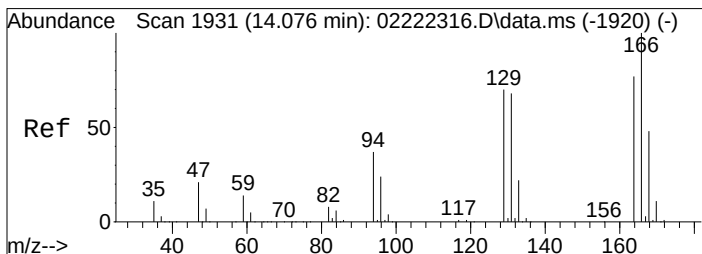
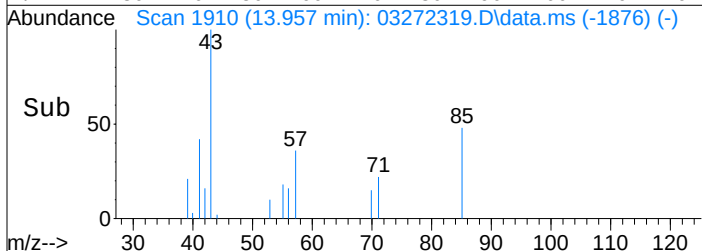
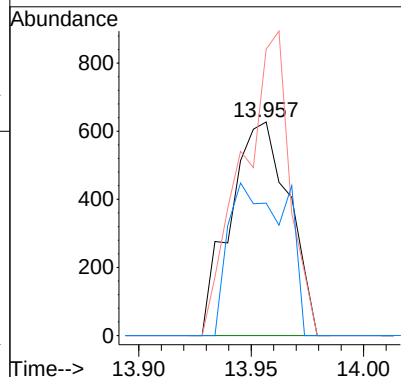
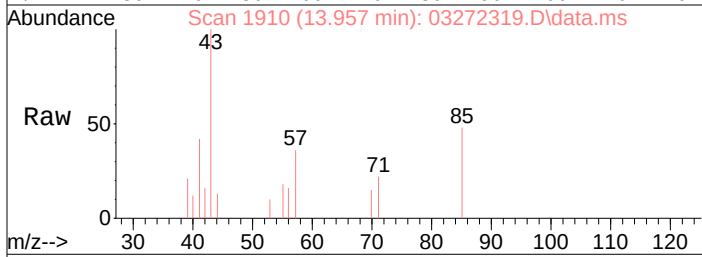
Tgt Ion: 43 Resp: 3792
 Ion Ratio Lower Upper
 43 100
 56 32.5 20.0 60.0
 73 11.5 0.0 33.2





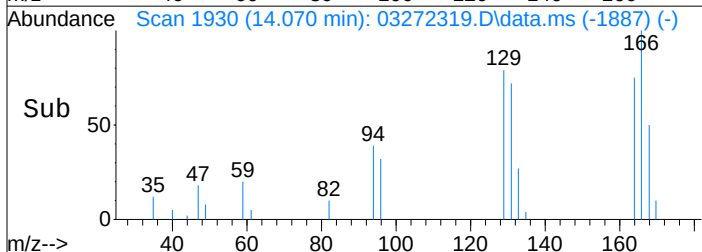
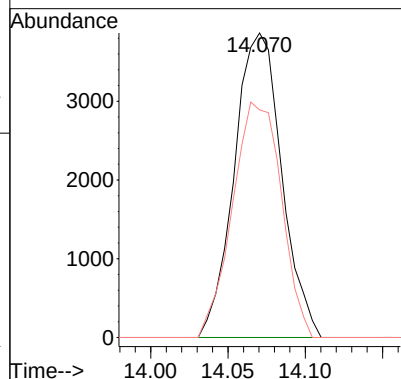
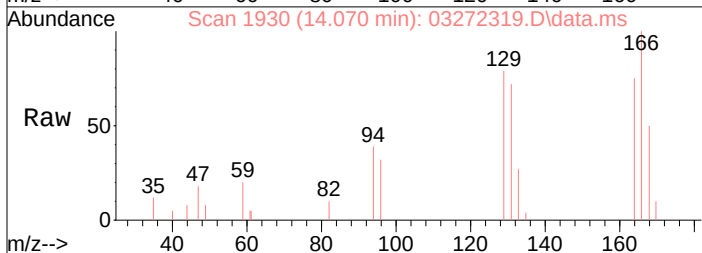
#63
n-Octane
Concen: 0.06 ng
RT: 13.96 min Scan# 1910
Delta R.T. -0.006 min
Lab File: 03272319.D
Acq: 27 Mar 2023 14:46

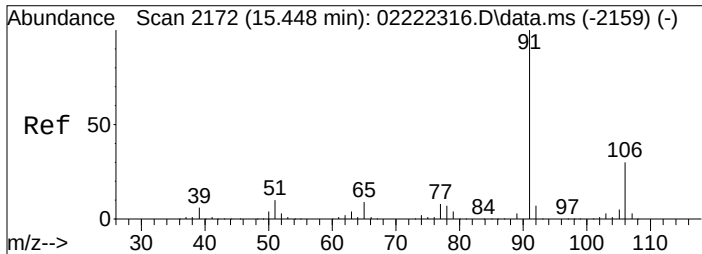
Tgt Ion: 57 Resp: 1142
Ion Ratio Lower Upper
57 100
85 115.4 94.1 141.1
71 69.1 52.6 79.0



#64
Tetrachloroethene
Concen: 0.28 ng
RT: 14.07 min Scan# 1930
Delta R.T. -0.006 min
Lab File: 03272319.D
Acq: 27 Mar 2023 14:46

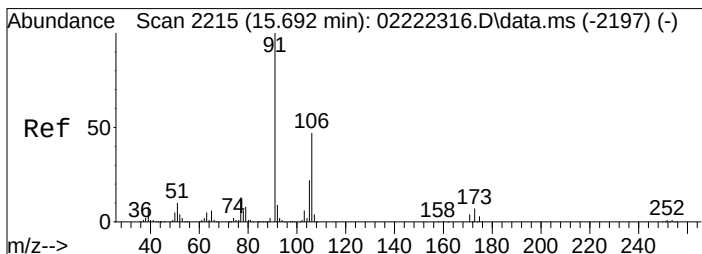
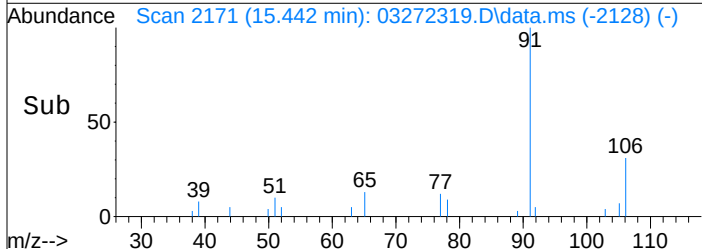
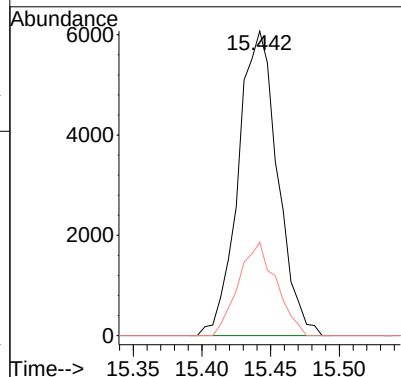
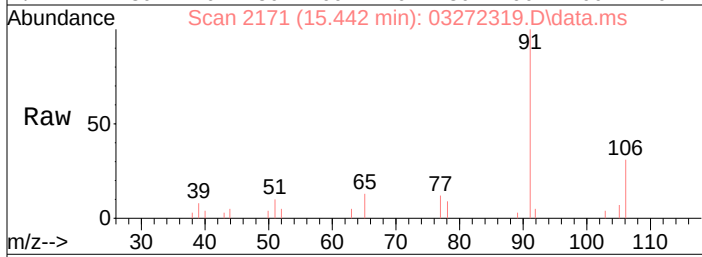
Tgt Ion: 166 Resp: 8249
Ion Ratio Lower Upper
166 100
164 79.8 57.3 97.3





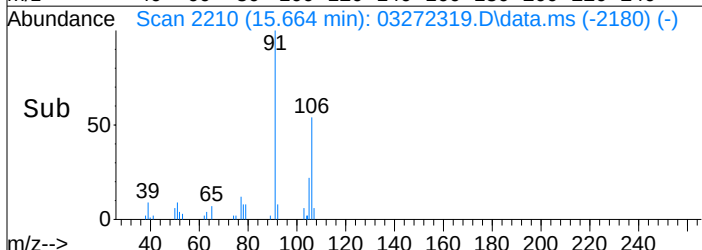
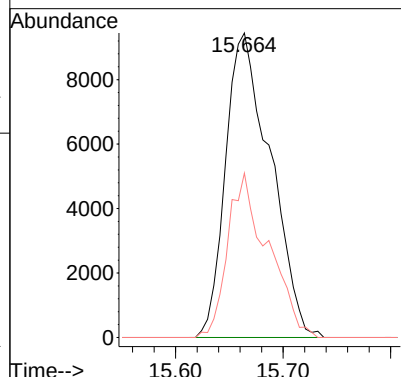
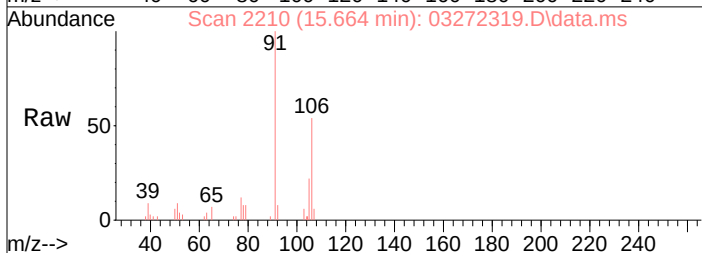
#66
Ethylbenzene
Concen: 0.11 ng
RT: 15.44 min Scan# 2171
Delta R.T. -0.006 min
Lab File: 03272319.D
Acq: 27 Mar 2023 14:46

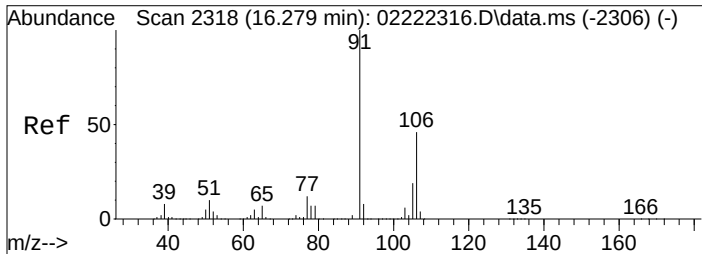
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	12122		
106	29.4	10.4	50.4	



#67
m- & p-Xylenes
Concen: 0.30 ng
RT: 15.66 min Scan# 2210
Delta R.T. -0.028 min
Lab File: 03272319.D
Acq: 27 Mar 2023 14:46

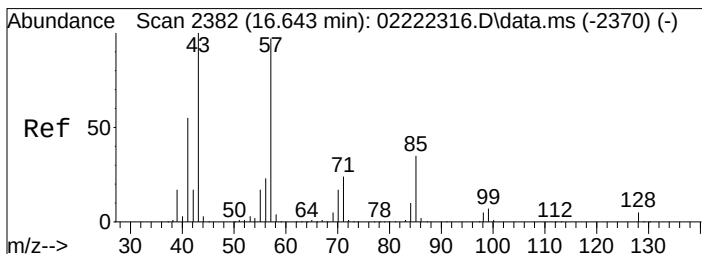
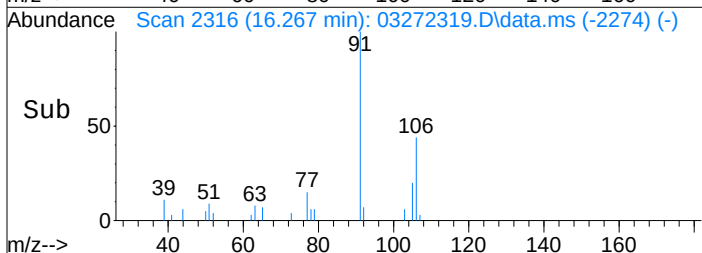
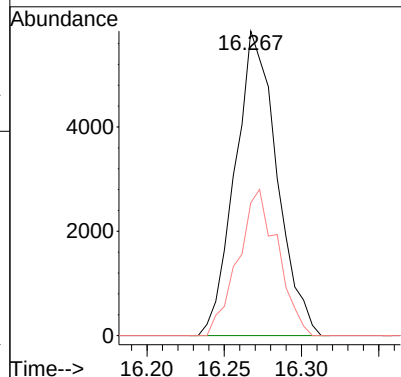
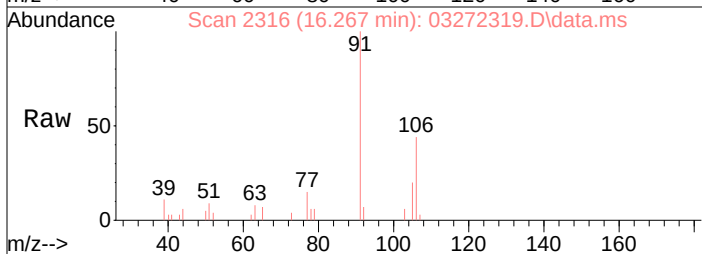
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	27332		
106	48.6	26.2	66.2	





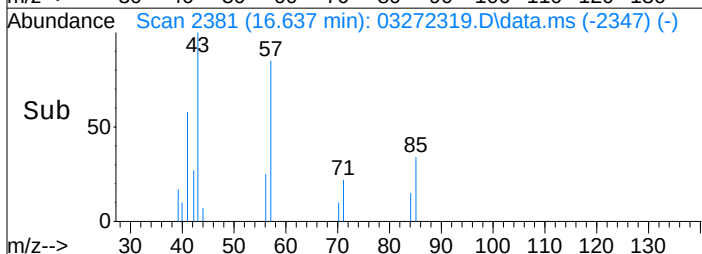
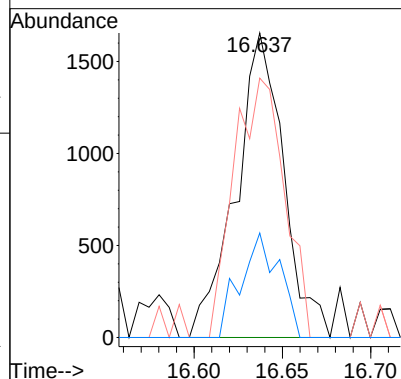
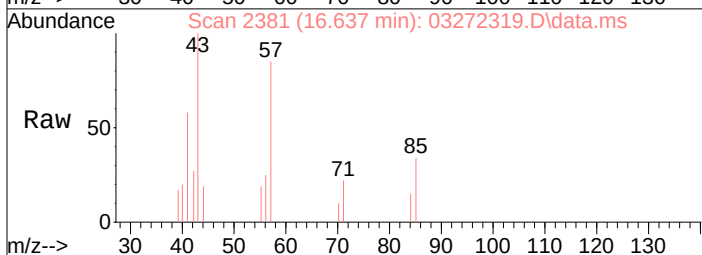
#70
o-Xylene
Concen: 0.13 ng
RT: 16.27 min Scan# 2316
Delta R.T. -0.011 min
Lab File: 03272319.D
Acq: 27 Mar 2023 14:46

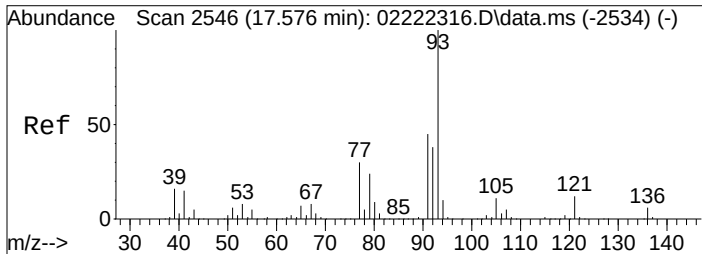
Tgt Ion: 91 Resp: 11019
Ion Ratio Lower Upper
91 100
106 45.5 25.4 65.4



#71
n-Nonane
Concen: 0.07 ng
RT: 16.64 min Scan# 2381
Delta R.T. -0.006 min
Lab File: 03272319.D
Acq: 27 Mar 2023 14:46

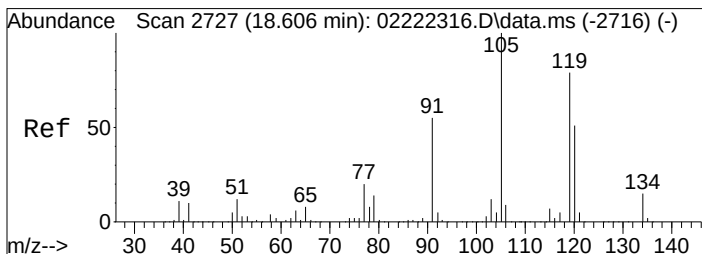
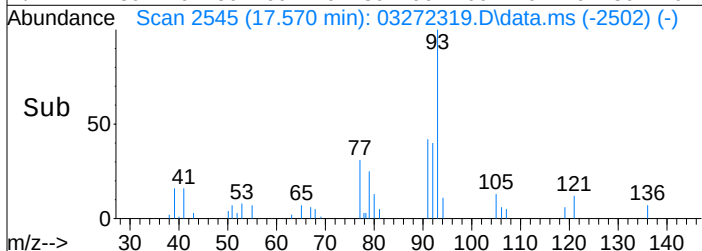
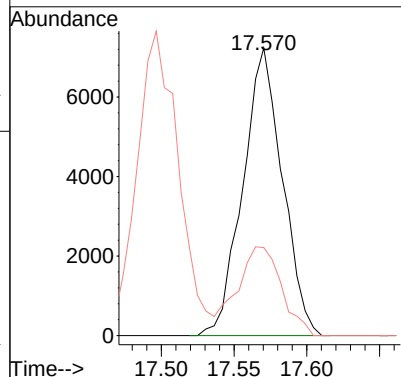
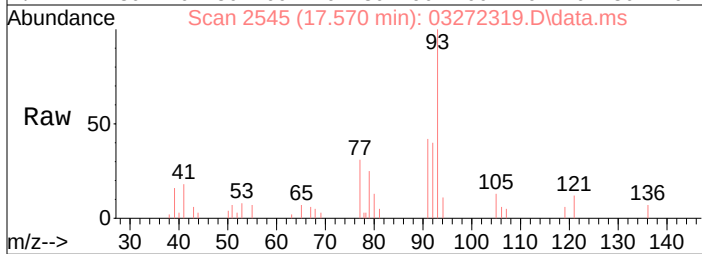
Tgt Ion: 43 Resp: 3117
Ion Ratio Lower Upper
43 100
57 90.2 74.2 114.2
85 27.7 14.2 54.2





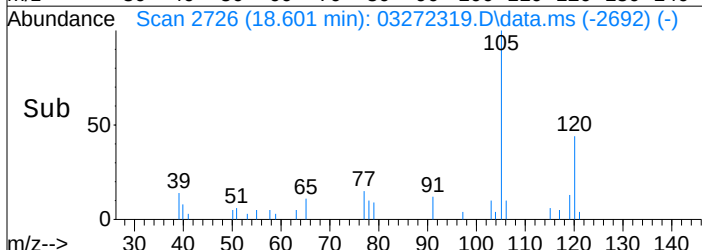
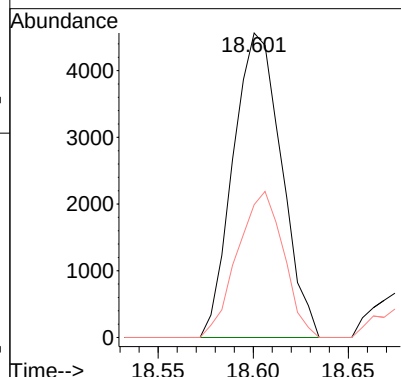
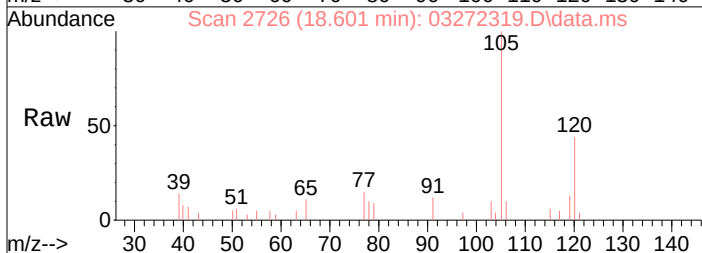
#75
 alpha-Pinene
 Concen: 0.28 ng
 RT: 17.57 min Scan# 2545
 Delta R.T. -0.006 min
 Lab File: 03272319.D
 Acq: 27 Mar 2023 14:46

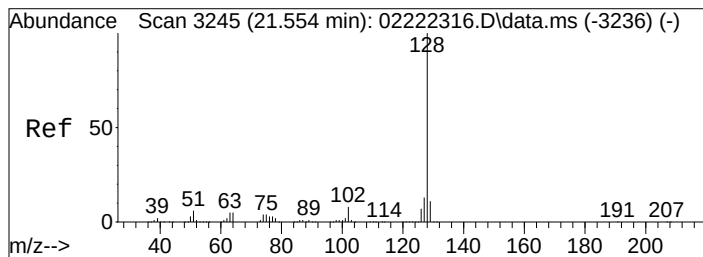
Tgt Ion:	93	Resp:	13653
Ion Ratio	Lower	Upper	
93	100		
77	34.5	11.1	51.1



#82
 1,2,4-Trimethylbenzene
 Concen: 0.09 ng
 RT: 18.60 min Scan# 2726
 Delta R.T. -0.006 min
 Lab File: 03272319.D
 Acq: 27 Mar 2023 14:46

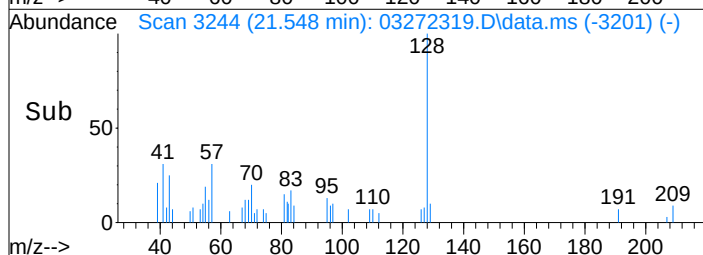
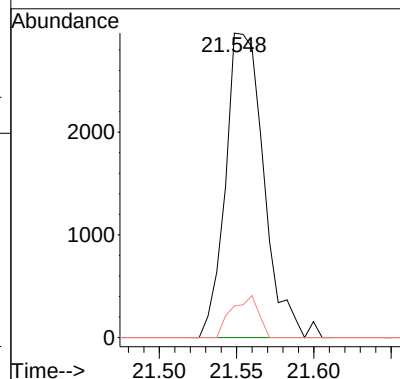
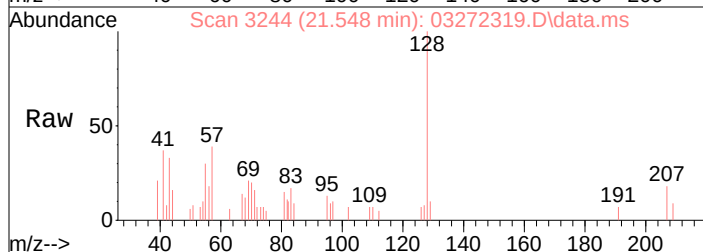
Tgt Ion:	105	Resp:	8077
Ion Ratio	Lower	Upper	
105	100		
120	45.6	32.8	72.8





#95
 Naphthalene
 Concen: 0.05 ng
 RT: 21.55 min Scan# 3244
 Delta R.T. -0.006 min
 Lab File: 03272319.D
 Acq: 27 Mar 2023 14:46

Tgt Ion:128 Resp: 5123
 Ion Ratio Lower Upper
 128 100
 129 9.6 0.0 30.9



Data File : I:\MS13\DATA\2023_03\27\03272319.D
 Acq On : 27 Mar 2023 14:46
 Sample : P2301250-032 (1000mL)
 Misc : S35-01202301

Vial: 6
 Operator: TZ
 Inst : MS13

TZ 3/28/23

Quant Time: Mar 28 11:18:05 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.31	130	233070	12.500	ng	-0.01
16) 1,4-Difluorobenzene (C_2)	9.37	114	1021494	12.500	ng	-0.01
19) Chlorobenzene-d5 (C_3)	14.88	54	196000	12.500	ng	0.00

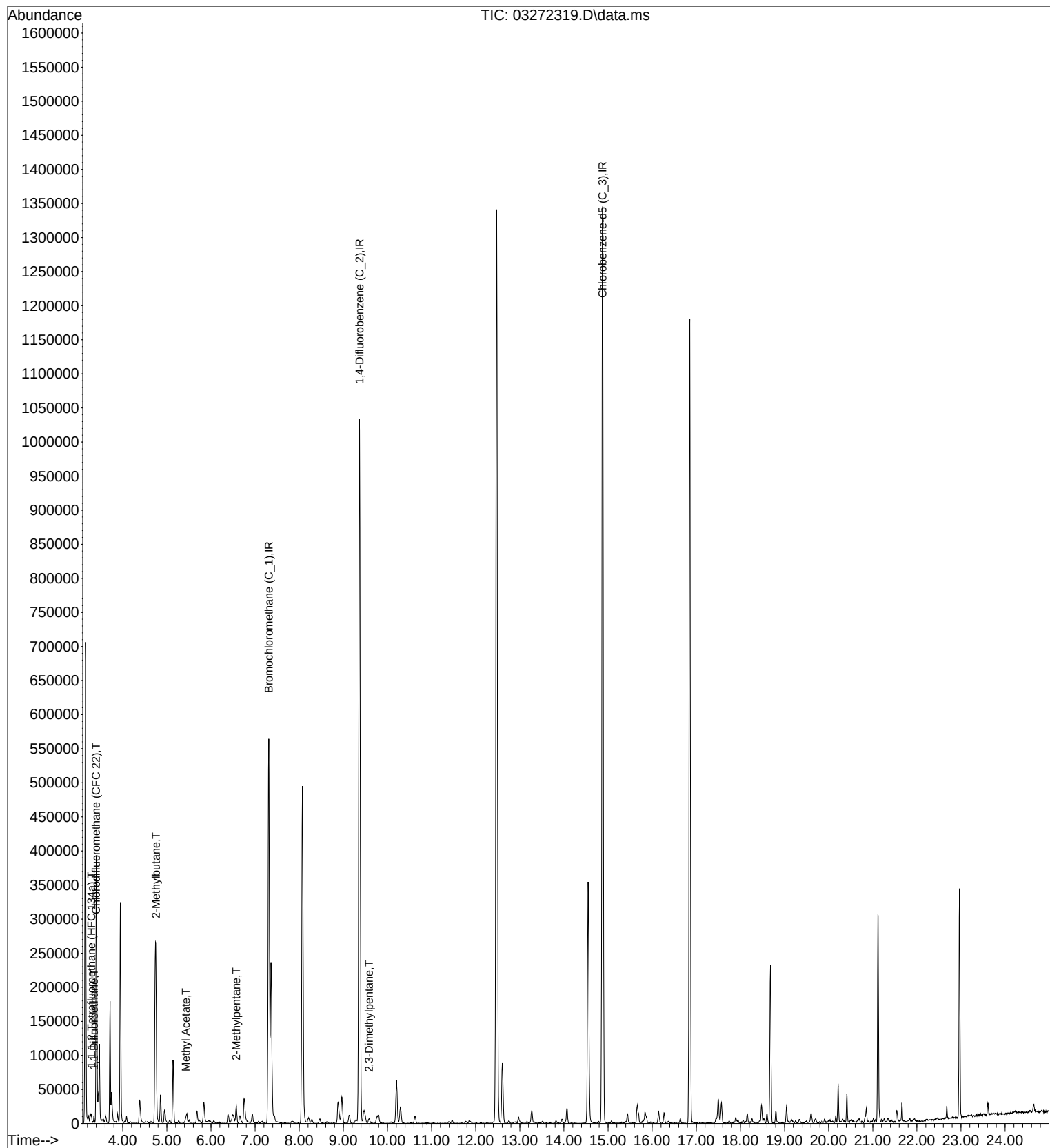
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.22	85	732	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.29	83	5264	0.280	ng	# 76
4) 1,1-Difluoroethane	3.35	65	2875	0.180	ng	94
5) Chlorodifluoromethane ...	3.39	67	2591	0.456	ng	98
6) 1-Chloro-1,1-Difluoroe...	3.60	65	2310	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	4.75	57	45837	2.689	ng	# 81
11) Methyl Acetate	5.43	43	7862	0.205	ng	# 57
12) 2-Methylpentane	6.58	71	5525	0.339	ng	# 82
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	9.14	84	1265	N.D.		
17) 2,3-Dimethylpentane	9.59	56	3329	0.111	ng	# 55
18) Dibromomethane	9.88	174	394	N.D.		
20) Methyl Cyclohexane	11.47	55	1788	N.D.		
21) 1,3-Dichloropropane	12.61	76	127	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	0.00	91	0	N.D.		
24) 1,2,3-Trichloropropane	0.00	75	0	N.D.		
25) Bromobenzene	0.00	77	0	N.D.		
26) 2-Chlorotoluene	17.74	91	3268	N.D.		
27) 4-Chlorotoluene	17.74	91	3268	N.D.		
28) Indane	19.39	117	880	N.D.		
29) Indene	19.39	115	154	N.D.		
30) 1,2,4,5-Tetramethylben...	20.64	119	1266	N.D.		
31) 1,2,3,4-Tetramethylben...	20.70	119	1377	N.D.		
32) 1,2,3,5-Tetramethylben...	21.12	119	1961	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\27\03272319.D
Acq On : 27 Mar 2023 14:46
Sample : P2301250-032 (1000mL)
Misc : S35-01202301

Vial: 6
Operator: TZ
Inst : MS13

Quant Time: Mar 28 11:18:05 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG3

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-033

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: SC00151

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.18 Final Pressure (psig): 3.84

Container Dilution Factor: 1.37

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.3	0.73	0.12	0.48	0.15	0.024	
74-87-3	Chloromethane	0.38	0.29	0.12	0.18	0.14	0.057	
75-01-4	Vinyl Chloride	ND	0.15	0.078	ND	0.059	0.031	
74-83-9	Bromomethane	ND	0.29	0.10	ND	0.074	0.026	
75-00-3	Chloroethane	ND	0.29	0.090	ND	0.11	0.034	
67-64-1	Acetone	8.4	7.2	1.6	3.5	3.0	0.69	
75-69-4	Trichlorofluoromethane	1.2	0.71	0.11	0.21	0.13	0.020	
75-35-4	1,1-Dichloroethene	ND	0.15	0.10	ND	0.038	0.026	
75-09-2	Methylene Chloride	0.34	0.73	0.21	0.097	0.21	0.059	J
76-13-1	Trichlorotrifluoroethane	0.50	0.74	0.10	0.065	0.097	0.014	J
75-15-0	Carbon Disulfide	0.55	1.5	0.22	0.18	0.47	0.070	J
156-60-5	trans-1,2-Dichloroethene	ND	0.15	0.10	ND	0.038	0.026	
75-34-3	1,1-Dichloroethane	ND	0.15	0.11	ND	0.037	0.026	
1634-04-4	Methyl tert-Butyl Ether	ND	0.74	0.086	ND	0.21	0.024	
78-93-3	2-Butanone (MEK)	1.6	1.4	0.15	0.53	0.48	0.051	
156-59-2	cis-1,2-Dichloroethene	0.10	0.15	0.10	0.026	0.038	0.026	J
67-66-3	Chloroform	0.23	0.15	0.097	0.047	0.031	0.020	
107-06-2	1,2-Dichloroethane	ND	0.15	0.081	ND	0.037	0.020	
71-55-6	1,1,1-Trichloroethane	0.24	0.15	0.090	0.043	0.028	0.017	
71-43-2	Benzene	0.77	0.15	0.11	0.24	0.047	0.033	
56-23-5	Carbon Tetrachloride	0.47	0.15	0.10	0.075	0.024	0.016	
110-82-7	Cyclohexane	ND	1.4	0.21	ND	0.42	0.060	
78-87-5	1,2-Dichloropropane	ND	0.15	0.090	ND	0.033	0.020	
75-27-4	Bromodichloromethane	ND	0.15	0.11	ND	0.023	0.016	
79-01-6	Trichloroethene	1.9	0.15	0.099	0.34	0.028	0.018	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG3

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-033

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: SC00151

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.18 Final Pressure (psig): 3.84

Container Dilution Factor: 1.37

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.74	0.11	ND	0.16	0.025	
108-10-1	4-Methyl-2-pentanone	ND	1.5	0.10	ND	0.37	0.024	
10061-02-6	trans-1,3-Dichloropropene	ND	0.70	0.15	ND	0.15	0.033	
79-00-5	1,1,2-Trichloroethane	ND	0.15	0.074	ND	0.028	0.014	
108-88-3	Toluene	1.1	0.73	0.089	0.29	0.19	0.024	
591-78-6	2-Hexanone	0.25	1.5	0.090	0.061	0.37	0.022	J
124-48-1	Dibromochloromethane	ND	0.15	0.096	ND	0.018	0.011	
106-93-4	1,2-Dibromoethane	ND	0.15	0.085	ND	0.020	0.011	
127-18-4	Tetrachloroethene	0.50	0.15	0.095	0.073	0.022	0.014	
108-90-7	Chlorobenzene	ND	0.73	0.097	ND	0.16	0.021	
100-41-4	Ethylbenzene	0.18	0.73	0.10	0.042	0.17	0.024	J
179601-23-1	m,p-Xylenes	0.52	1.5	0.19	0.12	0.35	0.044	J
75-25-2	Bromoform	ND	0.74	0.15	ND	0.072	0.015	
100-42-5	Styrene	ND	0.73	0.12	ND	0.17	0.028	
95-47-6	o-Xylene	0.20	0.73	0.11	0.046	0.17	0.024	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	0.10	ND	0.022	0.015	
98-82-8	Cumene	ND	0.74	0.11	ND	0.15	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.73	0.11	ND	0.12	0.018	
106-46-7	1,4-Dichlorobenzene	ND	0.73	0.11	ND	0.12	0.019	
95-50-1	1,2-Dichlorobenzene	ND	0.74	0.11	ND	0.12	0.018	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.5	0.14	ND	0.16	0.014	
120-82-1	1,2,4-Trichlorobenzene	ND	1.5	0.18	ND	0.20	0.024	
79-20-9	Methyl Acetate	0.34	0.69	0.33	0.11	0.23	0.11	J, X
108-87-2	Methylcyclohexane	ND	0.69	0.36	ND	0.17	0.089	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS13\DATA\2023_03\27\03272323.D
 Acq On : 27 Mar 2023 17:19
 Sample : P2301250-033 (1000mL)
 Misc : S35-01202301

Vial: 7
 Operator: TZ
 Inst : MS13

Tz 3/28/23

Quant Time: Mar 28 11:16:07 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.31	130	225475	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	9.36	114	985942	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.87	54	192259	12.500	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.07	65	395102	13.204	ng	-0.04
Spiked Amount	12.500	Range	70 - 130	Recovery	=	105.60%
57) Toluene-d8 (SS2)	12.47	98	1117202	11.299	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	90.40%
73) Bromofluorobenzene (SS3)	16.85	174	430883	11.898	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	95.20%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	3.46	85	70809	1.715	ng	99
4) Chloromethane	3.60	50	8210	0.276	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	3.71	135	1305	0.063	ng	98
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	3.91	54	592	N.D.		
8) Bromomethane	4.12	94	237	N.D.		
9) Chloroethane	4.26	64	534	N.D.		
10) Ethanol	4.38	45	44016	2.749	ng	99
11) Acetonitrile	4.55	41	3098	0.074	ng	# 33
12) Acrolein	4.64	56	2660	0.201	ng	91
13) Acetone	4.73	58	83895	6.139	ng	97
14) Trichlorofluoromethane	4.85	101	32668	0.879	ng	99
15) 2-Propanol (Isopropanol)	4.94	45	21450	0.389	ng	80
16) Acrylonitrile	5.11	53	291	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.45	84	4957	0.247	ng	96
20) 3-Chloro-1-propene (Al...	5.49	41	1547	N.D.		
21) Trichlorotrifluoroethane	5.68	151	7068	0.362	ng	98
22) Carbon Disulfide	5.70	76	32096	0.405	ng	99
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	6.40	63	2014	0.056	ng	94
25) Methyl tert-Butyl Ether	6.48	73	203	N.D.		
26) Vinyl Acetate	6.51	86	2627	0.711	ng	# 58
27) 2-Butanone (MEK)	6.75	72	13846	1.141	ng	# 92
28) cis-1,2-Dichloroethene	7.16	61	2166	0.075	ng	78
29) Diisopropyl Ether	7.38	87	714	N.D.		
30) Ethyl Acetate	7.36	61	45868	5.749	ng	97
31) n-Hexane	7.38	57	10865	0.354	ng	99
32) Chloroform	7.44	83	6088	0.168	ng	96
34) Tetrahydrofuran (THF)	7.86	72	430	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.19	62	1489	0.054	ng	96
38) 1,1,1-Trichloroethane	8.46	97	5648	0.173	ng	95
39) Isopropyl Acetate	9.36	61	28660	No Calib		
40) 1-Butanol	8.88	56	25893	No Calib	#	
41) Benzene	8.97	78	43238	0.564	ng	99
42) Carbon Tetrachloride	9.14	117	9897	0.344	ng	98
43) Cyclohexane	9.28	84	1867	0.066	ng	# 72
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	9.93	63	273	N.D.		
46) Bromodichloromethane	10.14	83	354	N.D.		
47) Trichloroethene	10.20	130	30374	1.352	ng	99
48) 1,4-Dioxane	10.19	88	429	N.D.		
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.	d	
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS13\DATA\2023_03\27\03272323.D
 Acq On : 27 Mar 2023 17:19
 Sample : P2301250-033 (1000mL)
 Misc : S35-01202301

Vial: 7
 Operator: TZ
 Inst : MS13

Quant Time: Mar 28 11:16:07 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.62	71	4113	0.222	ng	97
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.38	58	1118	0.068	ng #	37
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.60	91	74383	0.790	ng	98
59) 2-Hexanone	12.97	43	8255	0.181	ng	100
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.82	43	4928	0.095	ng	93
63) n-Octane	13.95	57	1688	0.091	ng	86
64) Tetrachloroethene	14.06	166	10362	0.362	ng	95
65) Chlorobenzene	14.93	112	141	N.D.		
66) Ethylbenzene	15.44	91	14771	0.132	ng	97
67) m- & p-Xylenes	15.66	91	33945	0.376	ng	96
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.14	104	1202	N.D.		
70) o-Xylene	16.27	91	12668	0.147	ng	100
71) n-Nonane	16.64	43	4238	0.101	ng	87
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	17.06	105	2443	N.D.		
75) alpha-Pinene	17.58	93	1486	N.D.		
76) n-Propylbenzene	17.74	91	4578	N.D.		
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.94	105	3717	N.D.		
79) 1,3,5-Trimethylbenzene	18.06	105	2721	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.60	105	9496	0.108	ng	91
83) n-Decane	17.12	58	182	No Calib	#	
84) Benzyl Chloride	18.75	91	219	N.D.		
85) 1,3-Dichlorobenzene	18.86	146	290	N.D.		
86) 1,4-Dichlorobenzene	18.86	146	290	N.D.		
87) sec-Butylbenzene	18.96	105	733	N.D.		
88) 4-Isopropyltoluene (p-...	19.18	119	4319	N.D.		
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	19.36	68	1215	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.23	58	2521	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	425	N.D.		
95) Naphthalene	21.55	128	2904	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	21.99	225	169	N.D.		
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	18.60	119	1462	N.D.		
100) n-Butylbenzene	19.71	91	3645	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\27\03272323.D
Acq On : 27 Mar 2023 17:19
Sample : P2301250-033 (1000mL)
Misc : S35-01202301

Vial: 7
Operator: TZ
Inst : MS13

Quant Time: Mar 28 11:16:07 2023

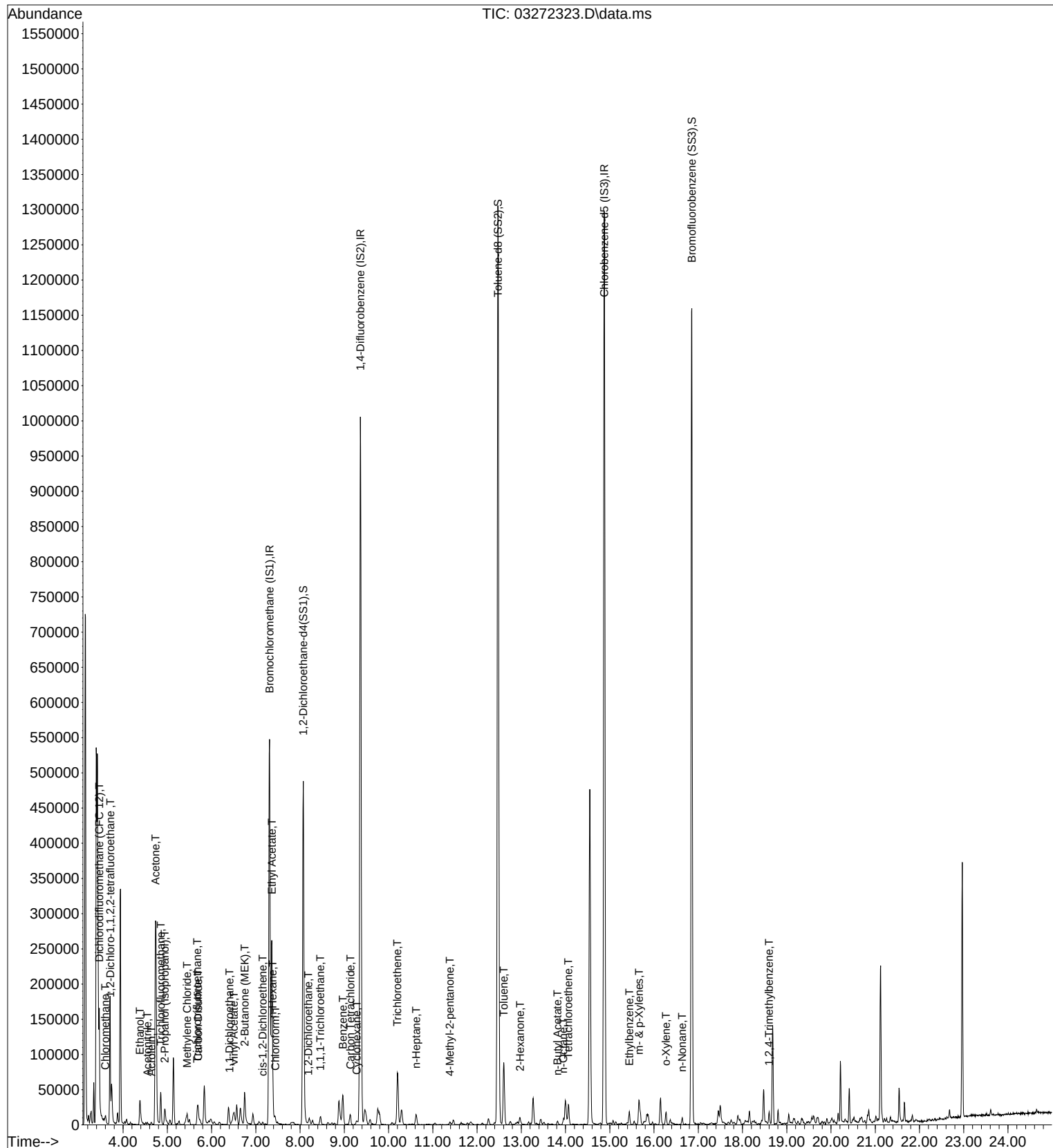
Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\27\03272323.D
 Acq On : 27 Mar 2023 17:19
 Sample : P2301250-033 (1000mL)
 Misc : S35-01202301

Vial: 7
 Operator: TZ
 Inst : MS13

T2 3/28/23

Quant Time: Mar 28 11:16:07 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.31	130	225475	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	9.36	114	985942	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.87	54	192259	12.500	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.07	65	395102	13.204	ng	-0.04
Spiked Amount	12.500	Range	70 - 130	Recovery	=	105.60%
57) Toluene-d8 (SS2)	12.47	98	1117202	11.299	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	90.40%
73) Bromofluorobenzene (SS3)	16.85	174	430883	11.898	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	95.20%

Target Compounds

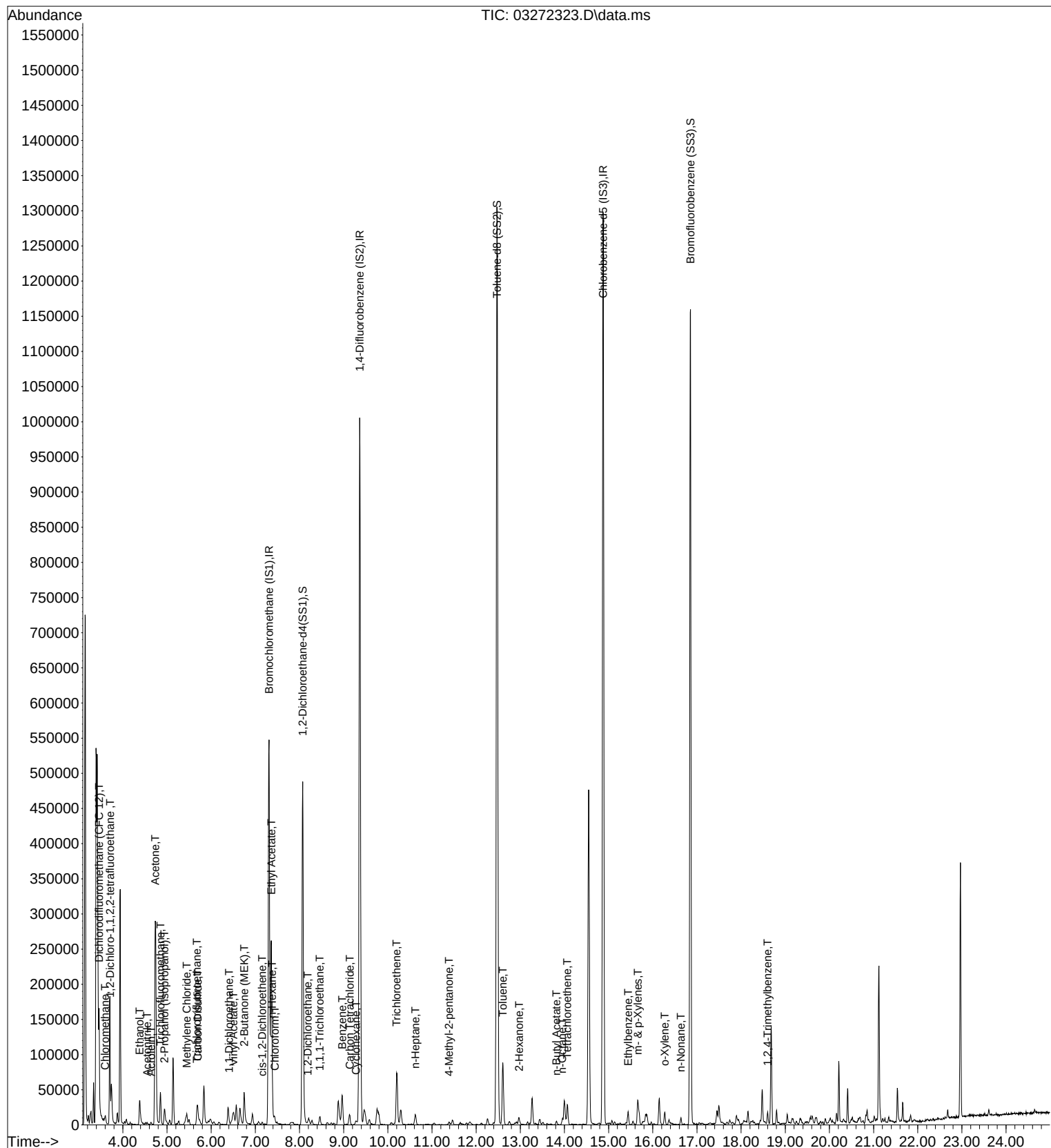
						Qvalue
3) Dichlorodifluoromethan...	3.46	85	70809	1.715	ng	99
4) Chloromethane	3.60	50	8210	0.276	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	3.71	135	1305	0.063	ng	98
10) Ethanol	4.38	45	44016	2.749	ng	99
11) Acetonitrile	4.55	41	3098	0.074	ng	# 33
12) Acrolein	4.64	56	2660	0.201	ng	91
13) Acetone	4.73	58	83895	6.139	ng	97
14) Trichlorofluoromethane	4.85	101	32668	0.879	ng	99
15) 2-Propanol (Isopropanol)	4.94	45	21450	0.389	ng	80
19) Methylene Chloride	5.45	84	4957	0.247	ng	96
21) Trichlorotrifluoroethane	5.68	151	7068	0.362	ng	98
22) Carbon Disulfide	5.70	76	32096	0.405	ng	99
24) 1,1-Dichloroethane	6.40	63	2014	0.056	ng	94
26) Vinyl Acetate	6.51	86	2627	0.711	ng	# 58
27) 2-Butanone (MEK)	6.75	72	13846	1.141	ng	# 92
28) cis-1,2-Dichloroethene	7.16	61	2166	0.075	ng	78
30) Ethyl Acetate	7.36	61	45868	5.749	ng	97
31) n-Hexane	7.38	57	10865	0.354	ng	99
32) Chloroform	7.44	83	6088	0.168	ng	96
36) 1,2-Dichloroethane	8.19	62	1489	0.054	ng	96
38) 1,1,1-Trichloroethane	8.46	97	5648	0.173	ng	95
41) Benzene	8.97	78	43238	0.564	ng	99
42) Carbon Tetrachloride	9.14	117	9897	0.344	ng	98
43) Cyclohexane	9.28	84	1867	0.066	ng	# 72
47) Trichloroethene	10.20	130	30374	1.352	ng	99
51) n-Heptane	10.62	71	4113	0.222	ng	97
53) 4-Methyl-2-pentanone	11.38	58	1118	0.068	ng	# 37
58) Toluene	12.60	91	74383	0.790	ng	98
59) 2-Hexanone	12.97	43	8255	0.181	ng	100
62) n-Butyl Acetate	13.82	43	4928	0.095	ng	93
63) n-Octane	13.95	57	1688	0.091	ng	86
64) Tetrachloroethene	14.06	166	10362	0.362	ng	95
66) Ethylbenzene	15.44	91	14771	0.132	ng	97
67) m- & p-Xylenes	15.66	91	33945	0.376	ng	96
70) o-Xylene	16.27	91	12668	0.147	ng	100
71) n-Nonane	16.64	43	4238	0.101	ng	87
82) 1,2,4-Trimethylbenzene	18.60	105	9496	0.108	ng	91

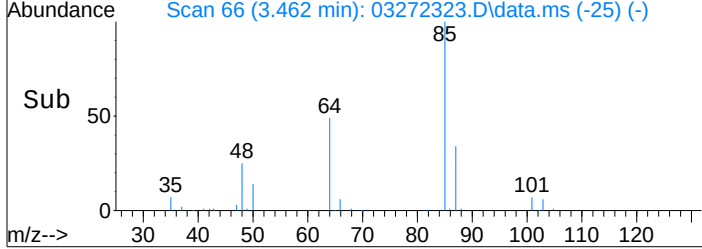
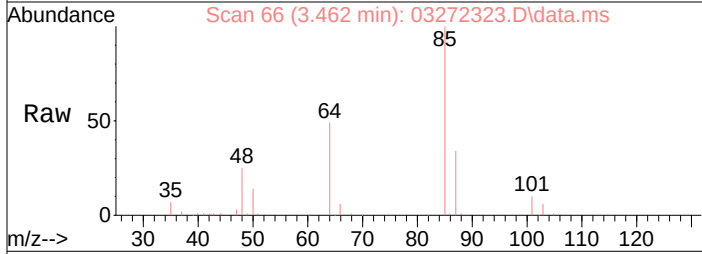
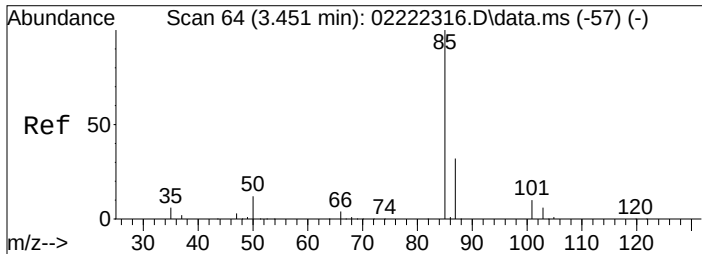
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS13\DATA\2023_03\27\03272323.D
Acq On : 27 Mar 2023 17:19
Sample : P2301250-033 (1000mL)
Misc : S35-01202301

Vial: 7
Operator: TZ
Inst : MS13

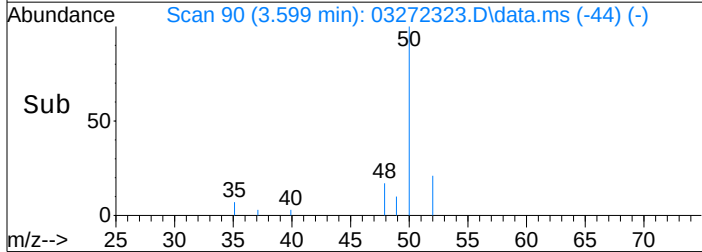
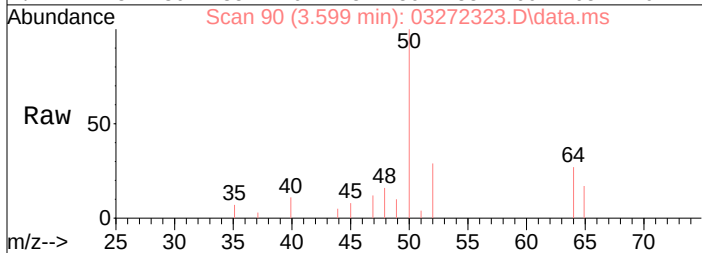
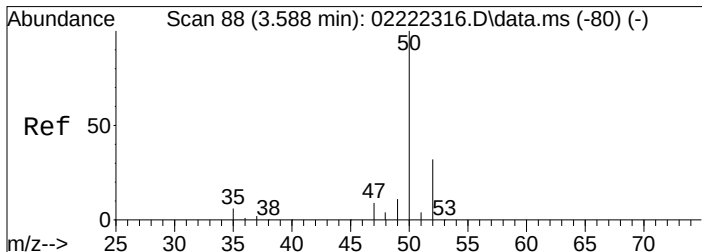
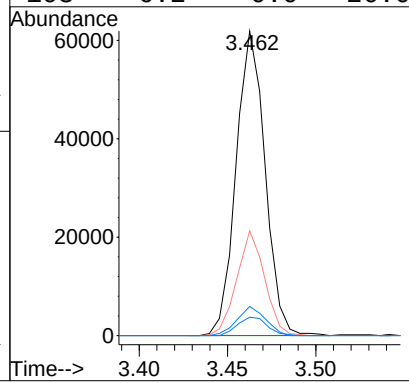
Quant Time: Mar 28 11:16:07 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M





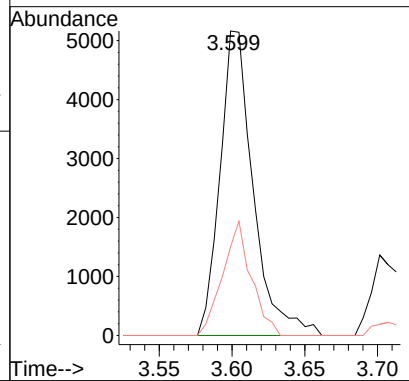
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 Concen: 1.71 ng
 RT: 3.46 min Scan# 66
 Delta R.T. -0.016 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:19

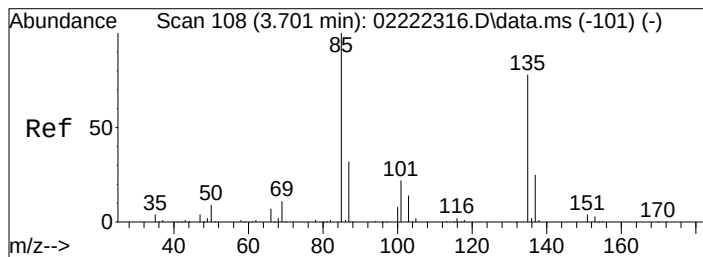
Tgt Ion:	85	Resp:	70809
Ion Ratio		Lower	Upper
85	100		
87	33.0	12.4	52.4
101	9.4	0.0	29.4
103	6.2	0.0	26.0



#4
 Chloromethane
 Concen: 0.28 ng
 RT: 3.60 min Scan# 90
 Delta R.T. 0.012 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:19

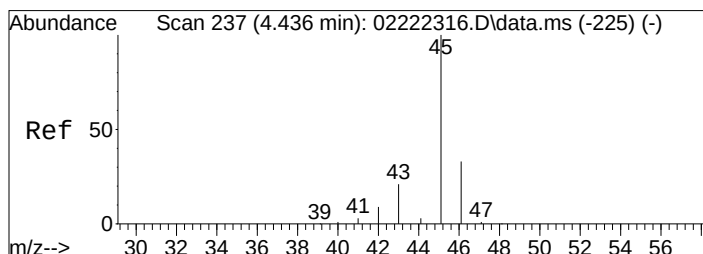
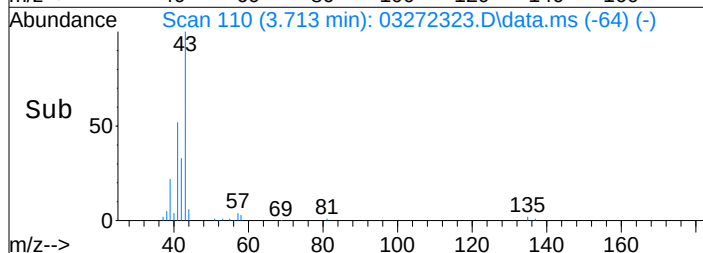
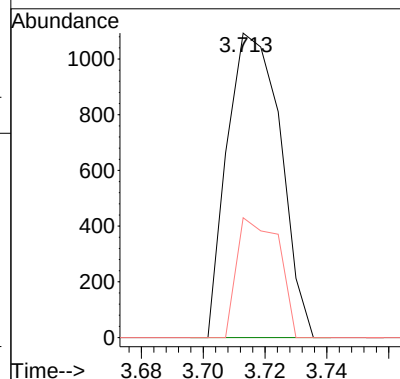
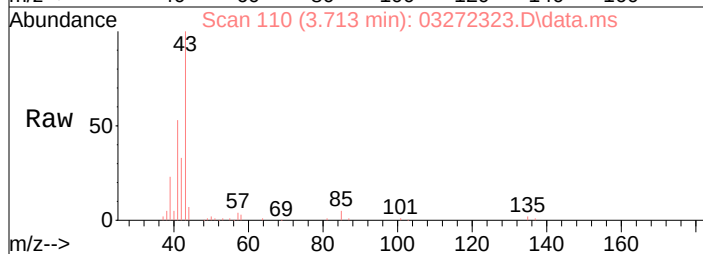
Tgt Ion:	50	Resp:	8210
Ion Ratio		Lower	Upper
50	100		
52	32.2	13.0	53.0





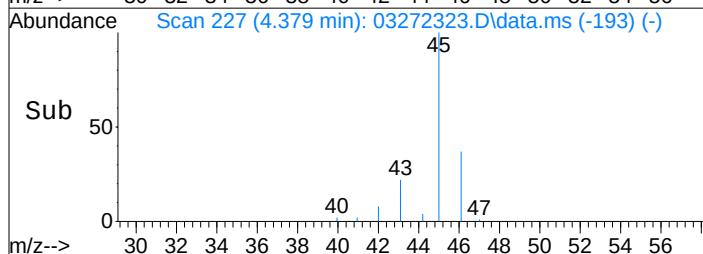
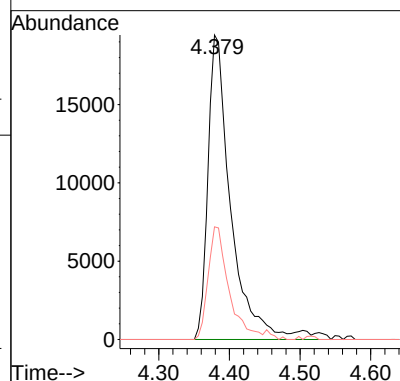
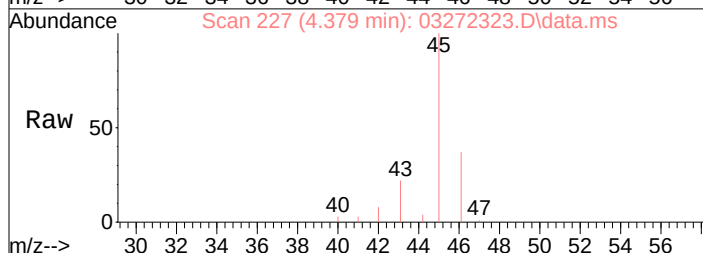
#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.06 ng
 RT: 3.71 min Scan# 110
 Delta R.T. 0.012 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:19

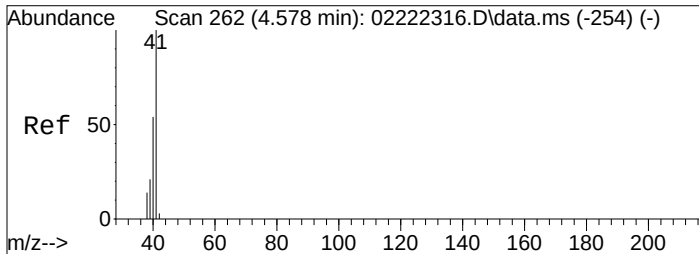
Tgt Ion: 135 Resp: 1305
 Ion Ratio Lower Upper
 135 100
 137 31.0 12.2 52.2



#10
 Ethanol
 Concen: 2.75 ng
 RT: 4.38 min Scan# 227
 Delta R.T. -0.057 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:19

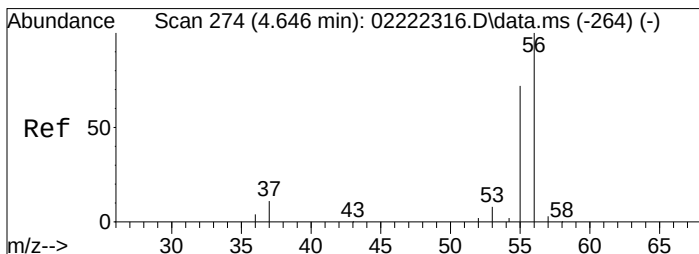
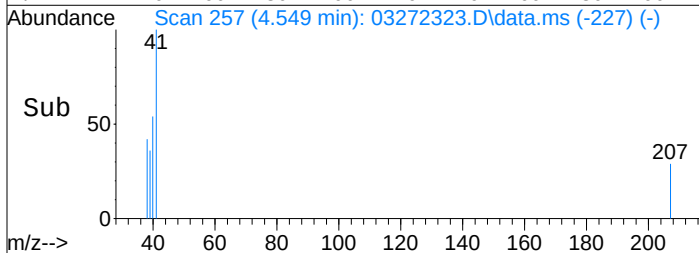
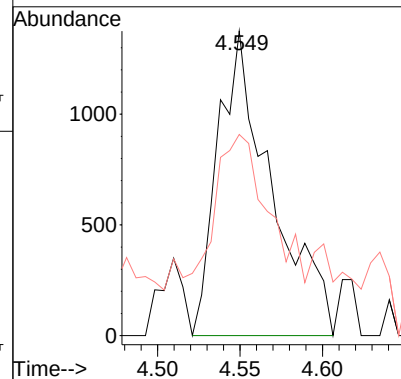
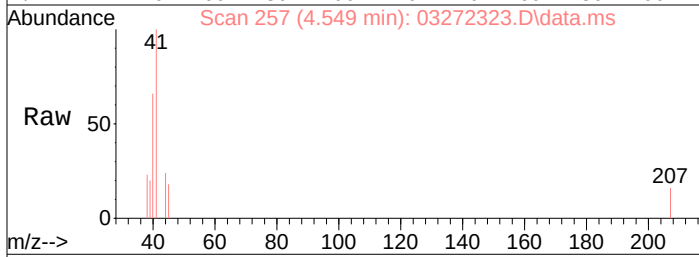
Tgt Ion: 45 Resp: 44016
 Ion Ratio Lower Upper
 45 100
 46 34.3 13.8 53.8





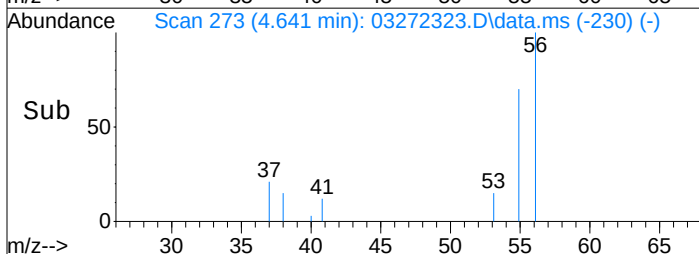
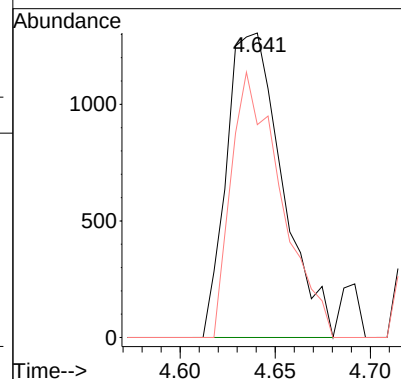
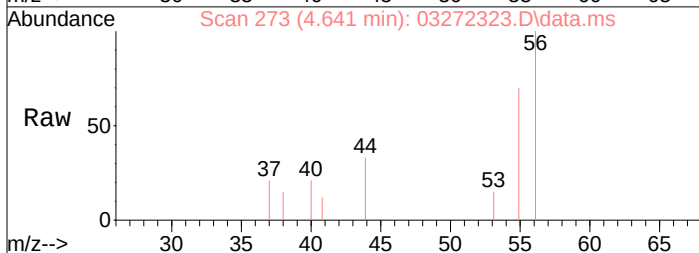
#11
Acetonitrile
Concen: 0.07 ng
RT: 4.55 min Scan# 257
Delta R.T. -0.028 min
Lab File: 03272323.D
Acq: 27 Mar 2023 17:19

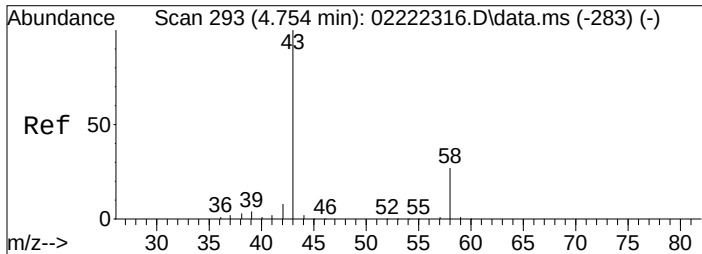
Tgt Ion: 41 Resp: 3098
Ion Ratio Lower Upper
41 100
40 102.9 34.4 74.4#



#12
Acrolein
Concen: 0.20 ng
RT: 4.64 min Scan# 273
Delta R.T. -0.006 min
Lab File: 03272323.D
Acq: 27 Mar 2023 17:19

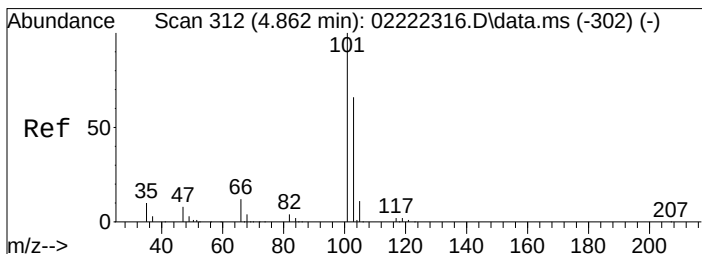
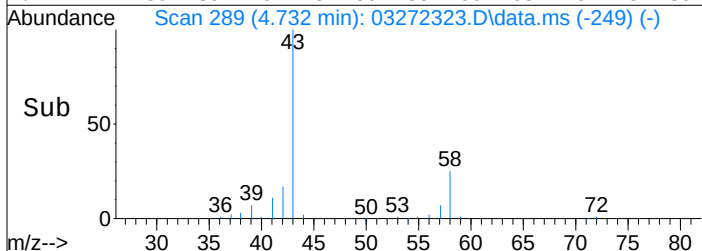
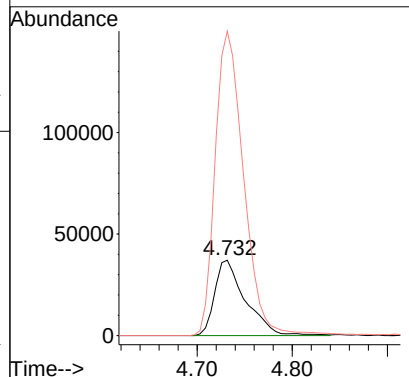
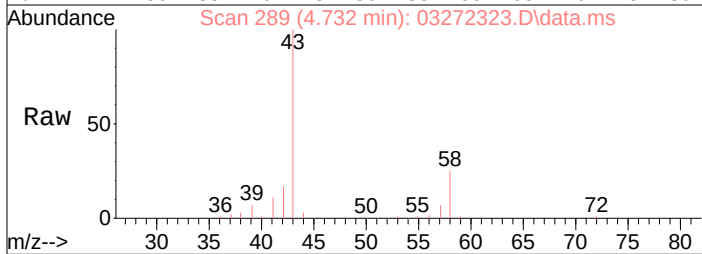
Tgt Ion: 56 Resp: 2660
Ion Ratio Lower Upper
56 100
55 78.1 50.9 90.9





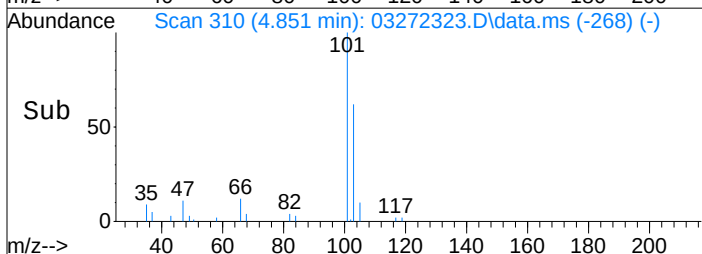
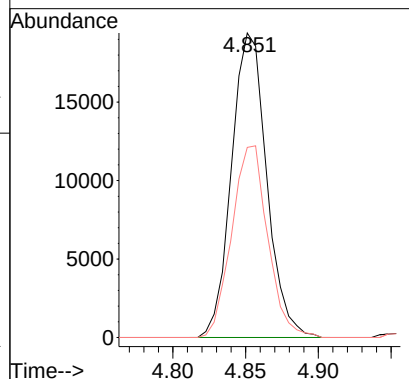
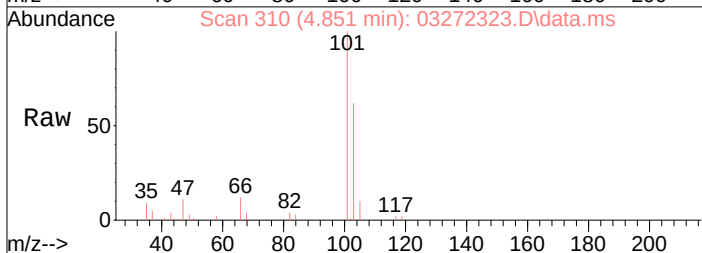
#13
 Acetone
 Concen: 6.14 ng
 RT: 4.73 min Scan# 289
 Delta R.T. -0.023 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:19

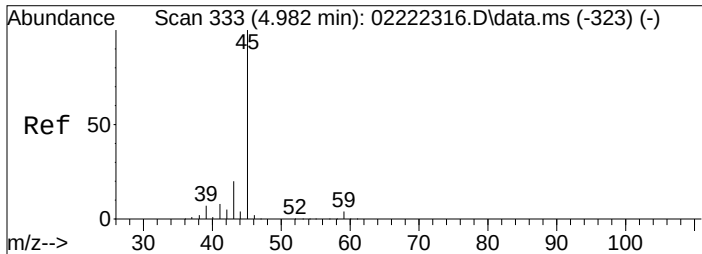
Tgt Ion	Ratio	Lower	Upper
58	100		
43	374.2	337.8	397.8



#14
 Trichlorofluoromethane
 Concen: 0.88 ng
 RT: 4.85 min Scan# 310
 Delta R.T. -0.011 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:19

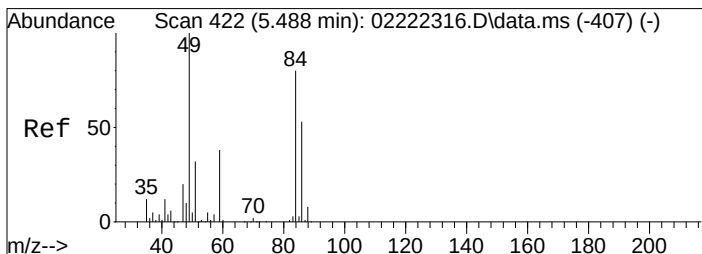
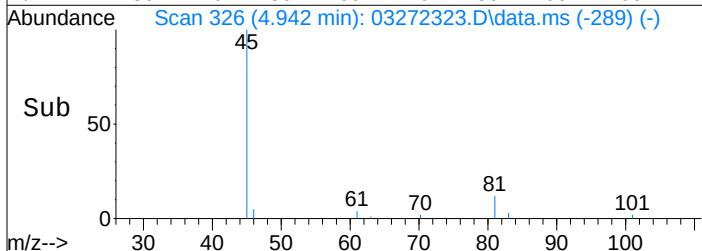
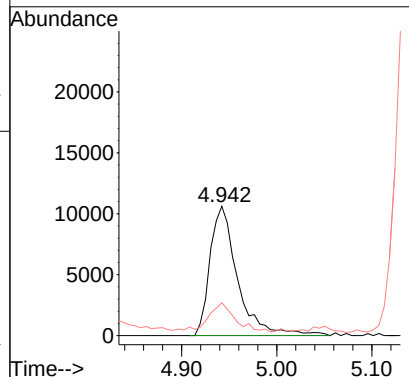
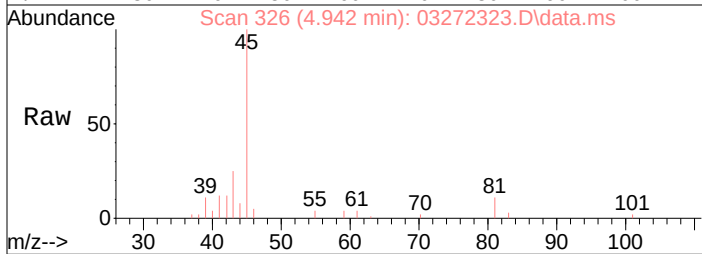
Tgt Ion	Ratio	Lower	Upper
101	100		
103	64.5	45.2	85.2





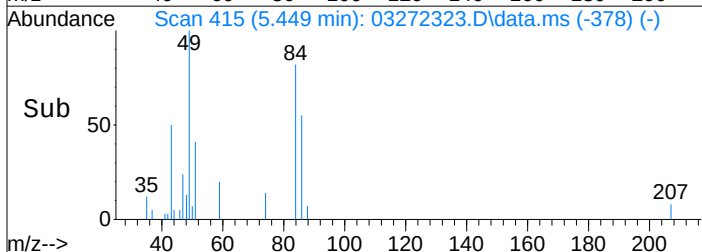
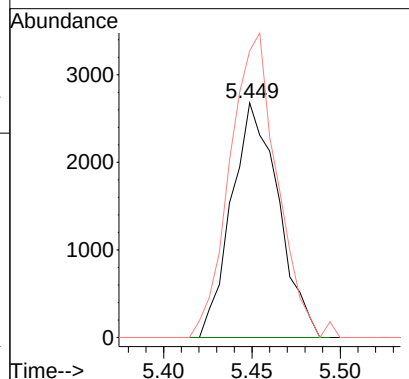
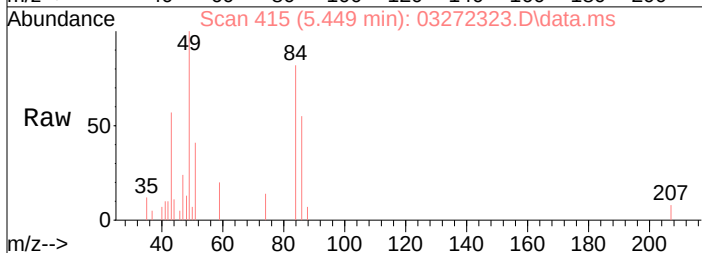
#15
 2-Propanol (Isopropanol)
 Concen: 0.39 ng
 RT: 4.94 min Scan# 326
 Delta R.T. -0.040 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:19

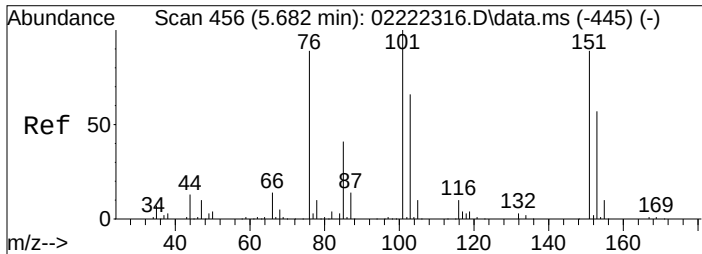
Tgt Ion	45	43	Resp	21450	Lower	Upper
Ion Ratio	100	28.9			0.0	39.7



#19
 Methylene Chloride
 Concen: 0.25 ng
 RT: 5.45 min Scan# 415
 Delta R.T. -0.040 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:19

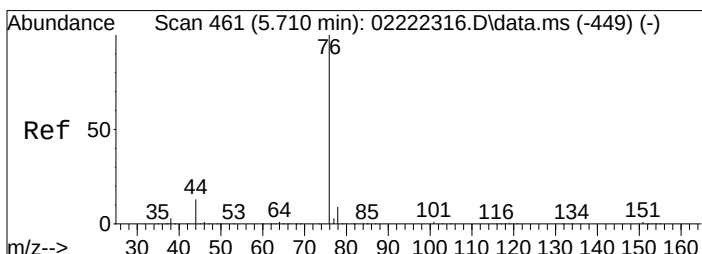
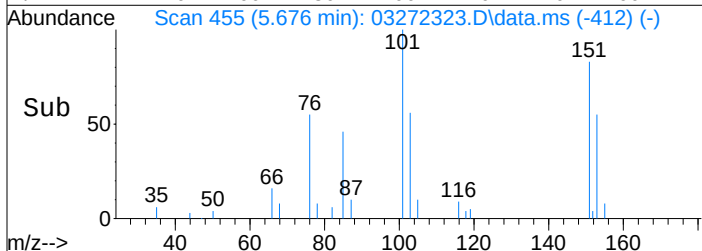
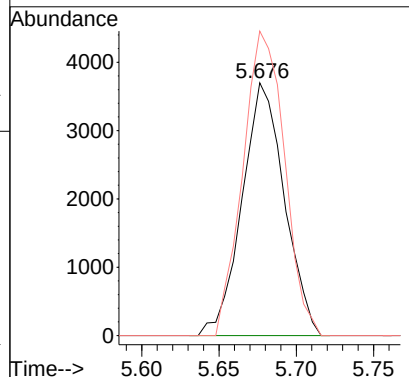
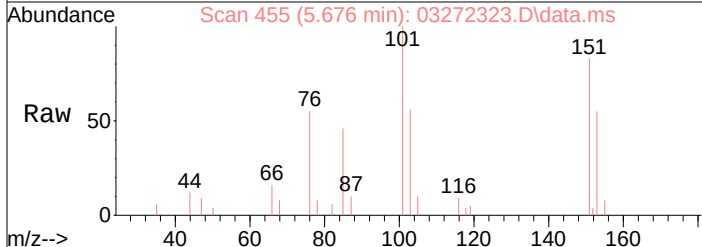
Tgt Ion	84	49	Resp	4957	Lower	Upper
Ion Ratio	100	131.0			101.3	151.3





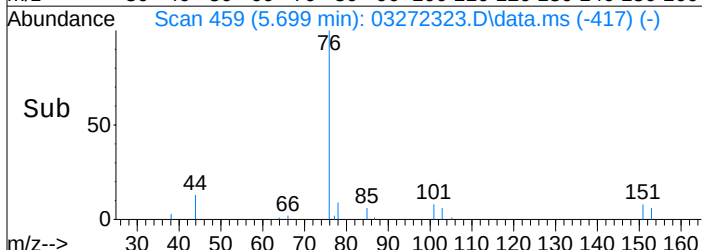
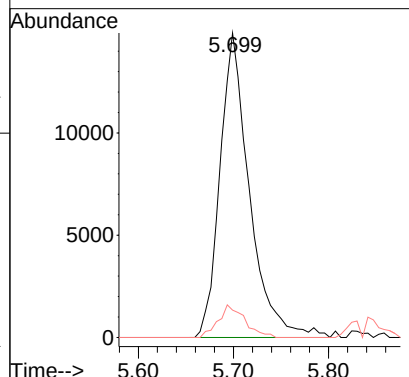
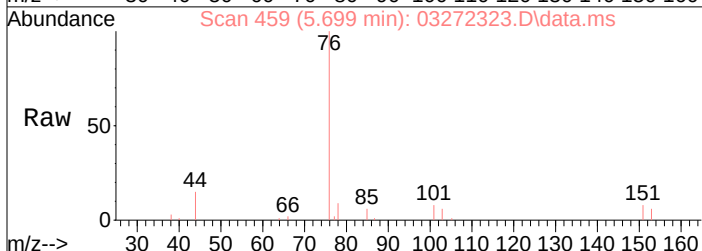
#21
 Trichlorotrifluoroethane
 Concen: 0.36 ng
 RT: 5.68 min Scan# 455
 Delta R.T. -0.006 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:19

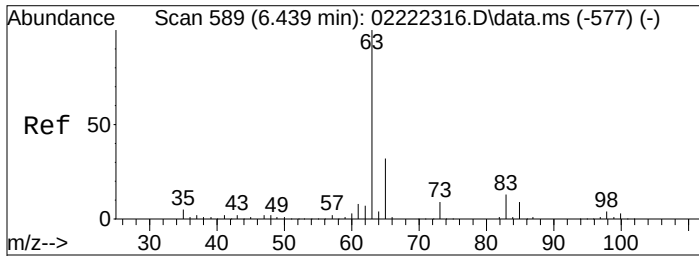
Tgt Ion: 151 Resp: 7068
 Ion Ratio Lower Upper
 151 100
 101 118.7 96.3 136.3



#22
 Carbon Disulfide
 Concen: 0.40 ng
 RT: 5.70 min Scan# 459
 Delta R.T. -0.011 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:19

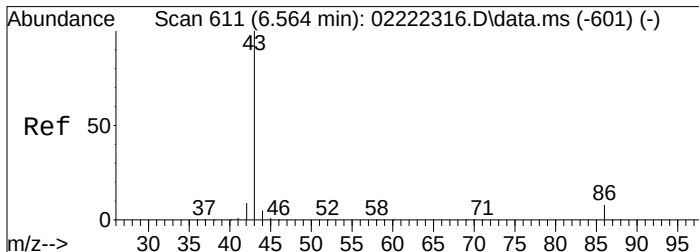
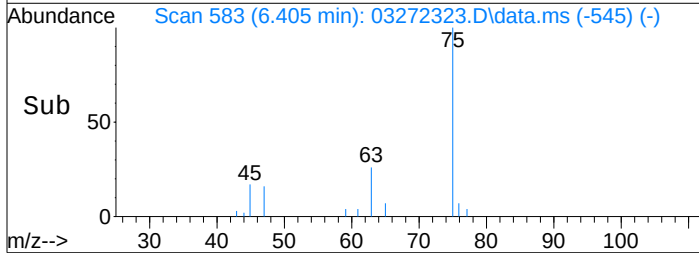
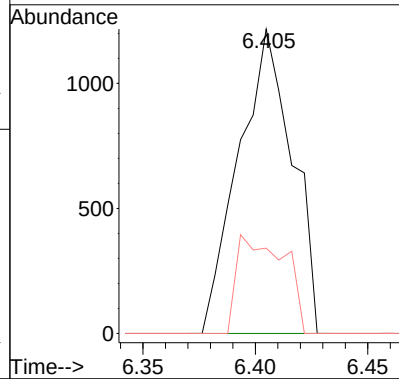
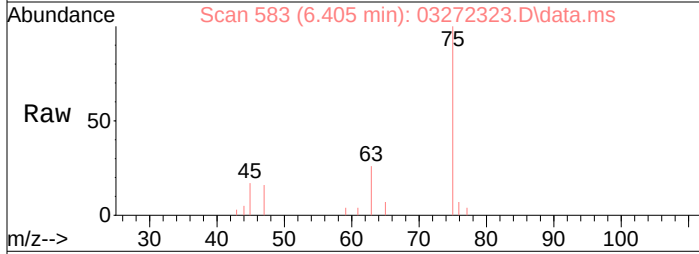
Tgt Ion: 76 Resp: 32096
 Ion Ratio Lower Upper
 76 100
 78 9.6 0.0 29.3





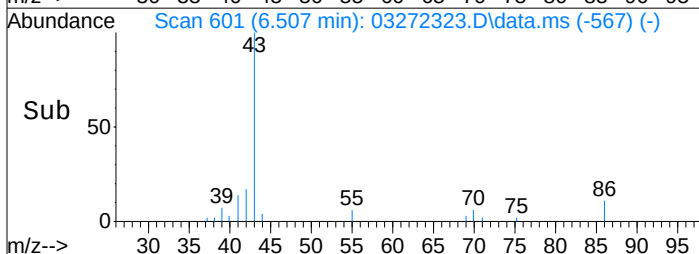
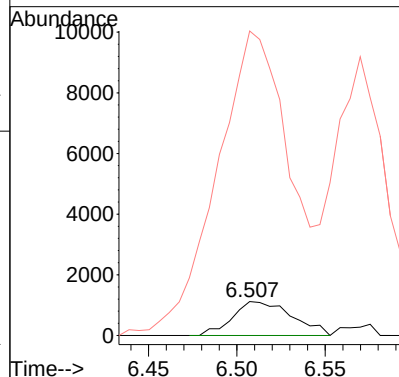
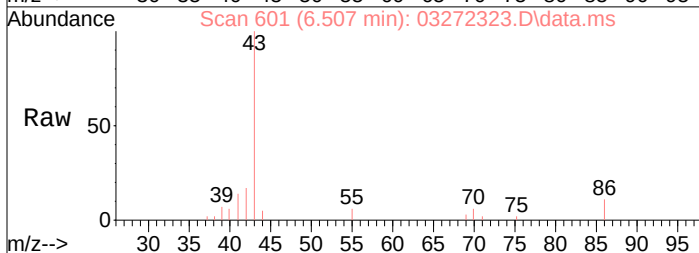
#24
1,1-Dichloroethane
Concen: 0.06 ng
RT: 6.40 min Scan# 583
Delta R.T. -0.034 min
Lab File: 03272323.D
Acq: 27 Mar 2023 17:19

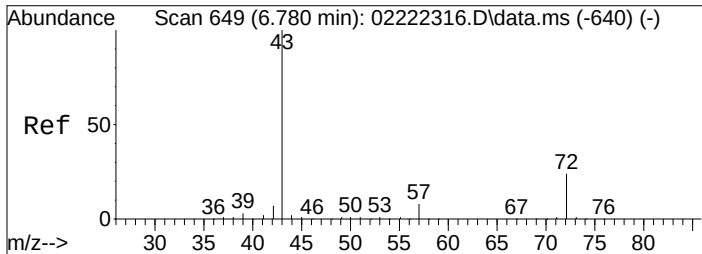
Tgt Ion: 63 Resp: 2014
Ion Ratio Lower Upper
63 100
65 28.7 12.0 52.0



#26
Vinyl Acetate
Concen: 0.71 ng
RT: 6.51 min Scan# 601
Delta R.T. -0.057 min
Lab File: 03272323.D
Acq: 27 Mar 2023 17:19

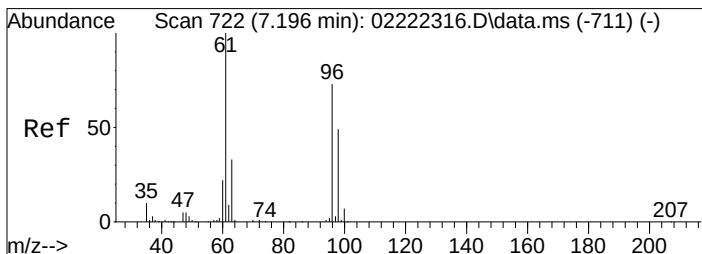
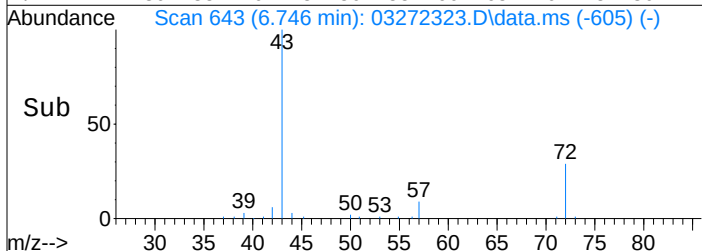
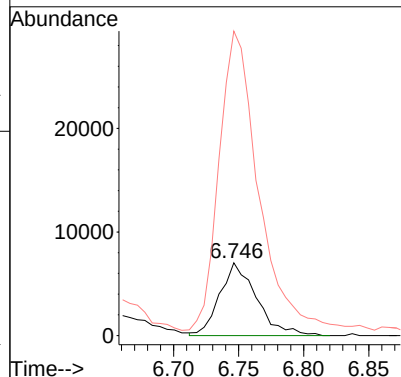
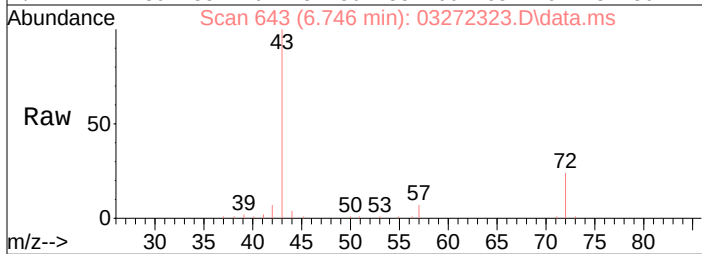
Tgt Ion: 86 Resp: 2627
Ion Ratio Lower Upper
86 100
43 1083.8 1292.1 1332.1#





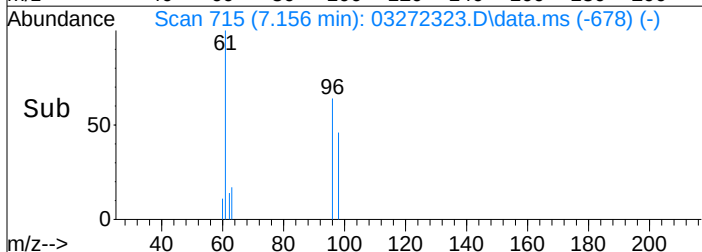
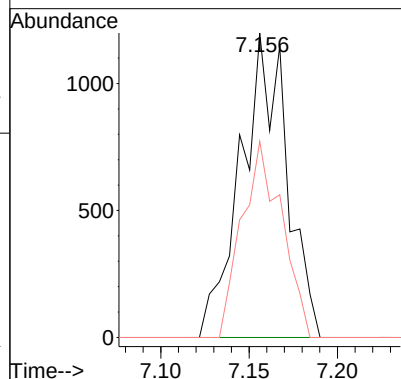
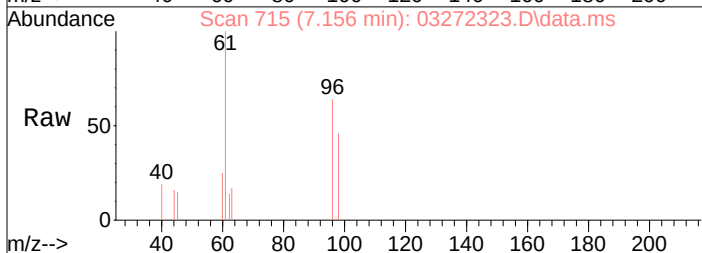
#27
2-Butanone (MEK)
Concen: 1.14 ng
RT: 6.75 min Scan# 643
Delta R.T. -0.034 min
Lab File: 03272323.D
Acq: 27 Mar 2023 17:19

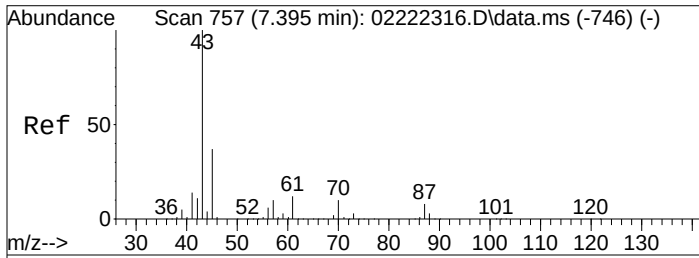
Tgt Ion: 72 Resp: 13846
Ion Ratio Lower Upper
72 100
43 440.7 400.5 440.5#



#28
cis-1,2-Dichloroethene
Concen: 0.08 ng
RT: 7.16 min Scan# 715
Delta R.T. -0.040 min
Lab File: 03272323.D
Acq: 27 Mar 2023 17:19

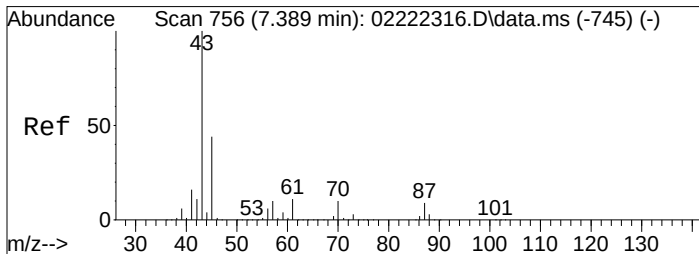
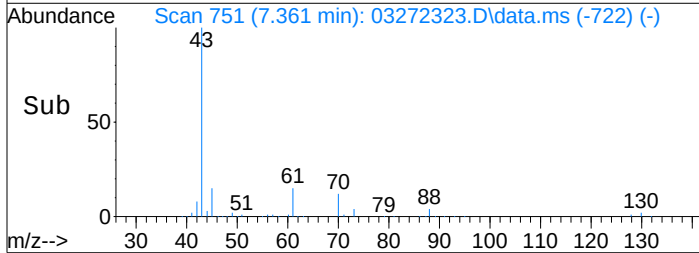
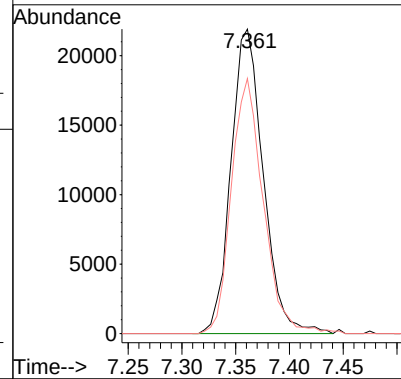
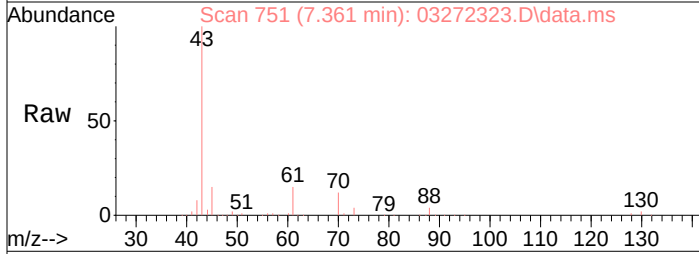
Tgt Ion: 61 Resp: 2166
Ion Ratio Lower Upper
61 100
96 56.0 54.5 94.5





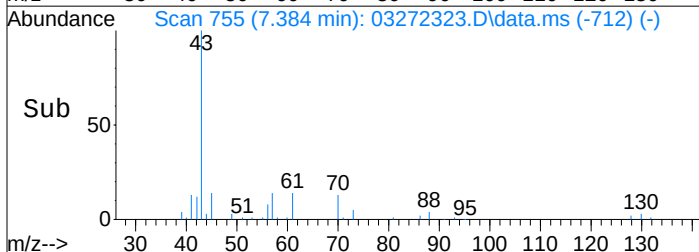
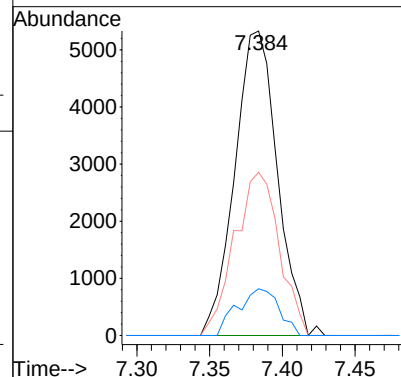
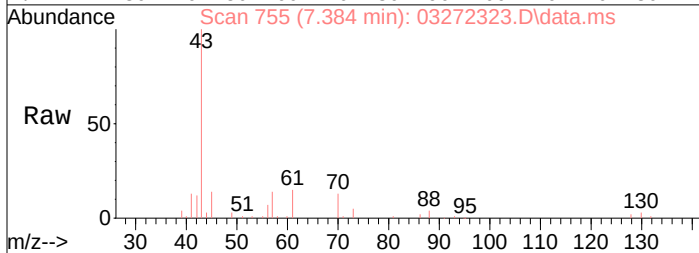
#30
Ethyl Acetate
Concen: 5.75 ng
RT: 7.36 min Scan# 751
Delta R.T. -0.034 min
Lab File: 03272323.D
Acq: 27 Mar 2023 17:19

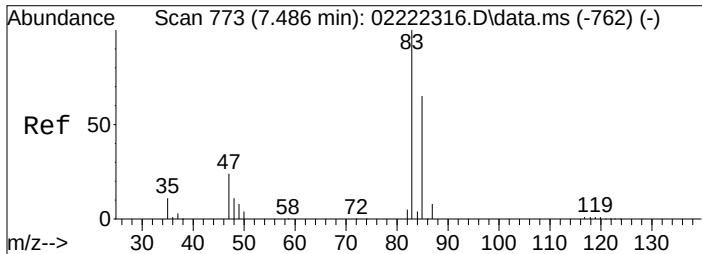
Tgt Ion: 61 Resp: 45868
Ion Ratio Lower Upper
61 100
70 82.8 65.6 105.6



#31
n-Hexane
Concen: 0.35 ng
RT: 7.38 min Scan# 755
Delta R.T. -0.006 min
Lab File: 03272323.D
Acq: 27 Mar 2023 17:19

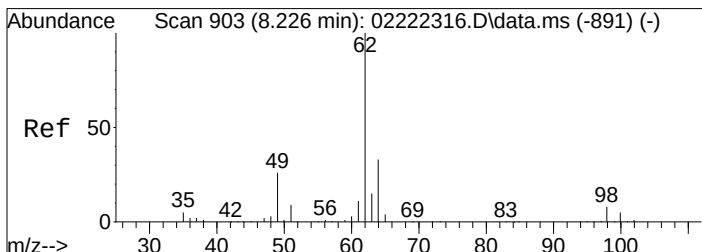
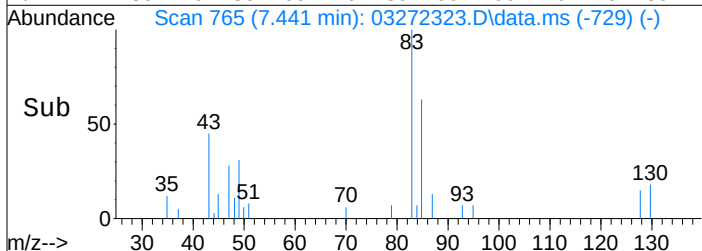
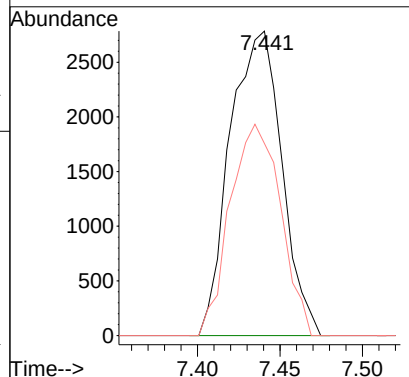
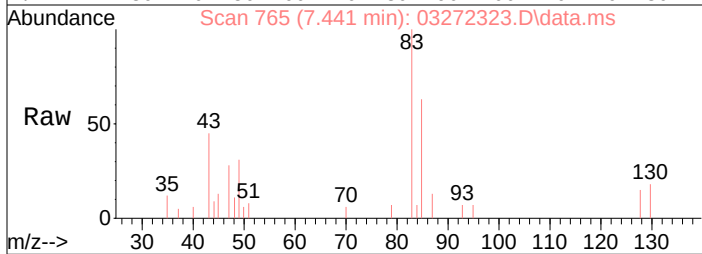
Tgt Ion: 57 Resp: 10865
Ion Ratio Lower Upper
57 100
56 56.0 44.0 66.0
86 15.0 11.5 17.3





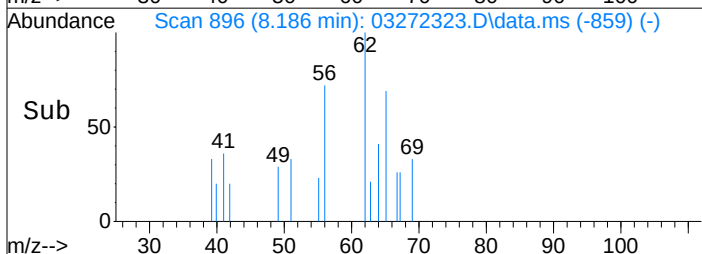
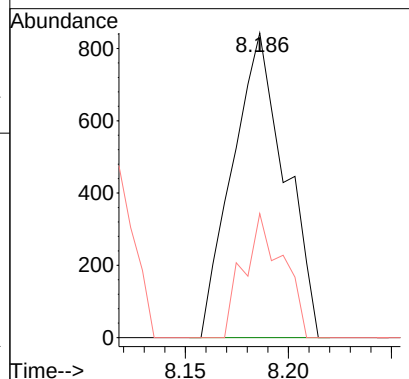
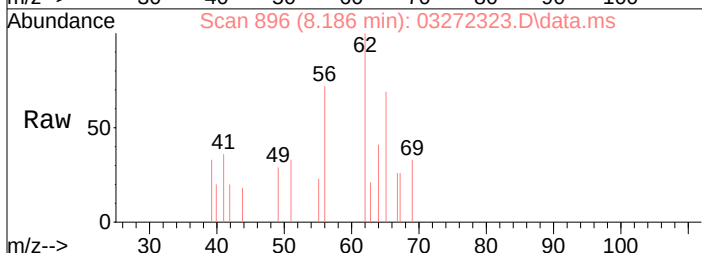
#32
Chloroform
Concen: 0.17 ng
RT: 7.44 min Scan# 765
Delta R.T. -0.045 min
Lab File: 03272323.D
Acq: 27 Mar 2023 17:19

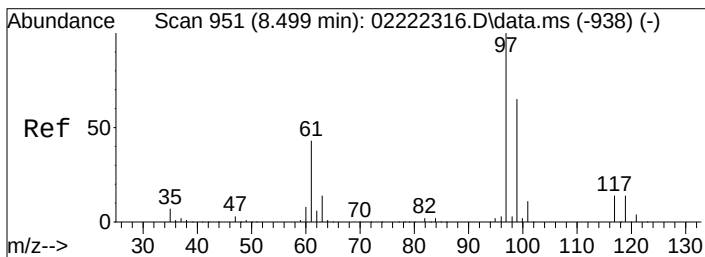
Tgt Ion: 83 Resp: 6088
Ion Ratio Lower Upper
83 100
85 67.8 45.0 85.0



#36
1,2-Dichloroethane
Concen: 0.05 ng
RT: 8.19 min Scan# 896
Delta R.T. -0.040 min
Lab File: 03272323.D
Acq: 27 Mar 2023 17:19

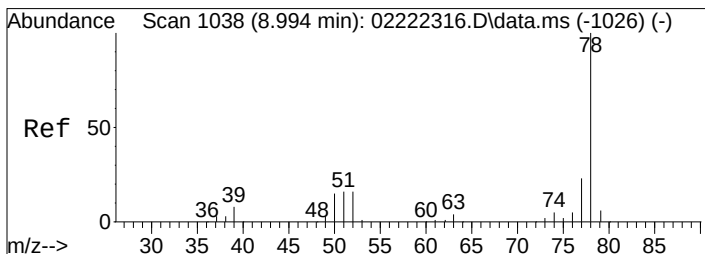
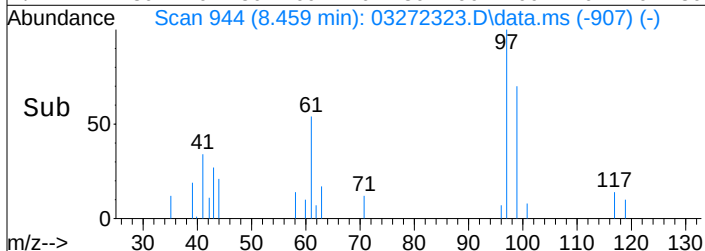
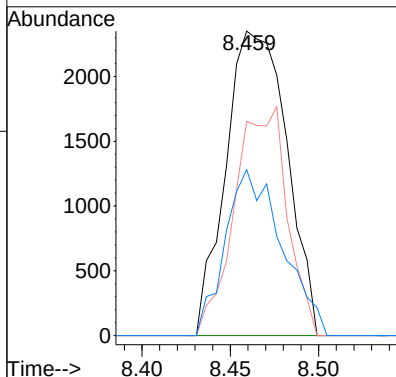
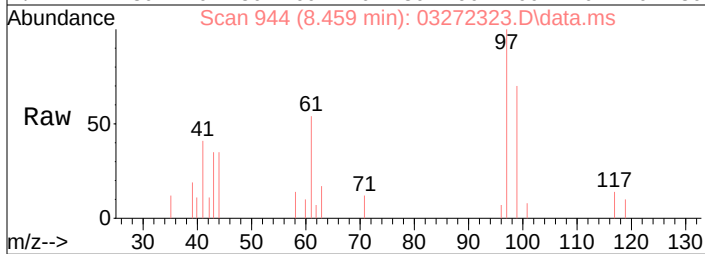
Tgt Ion: 62 Resp: 1489
Ion Ratio Lower Upper
62 100
64 30.4 12.6 52.6





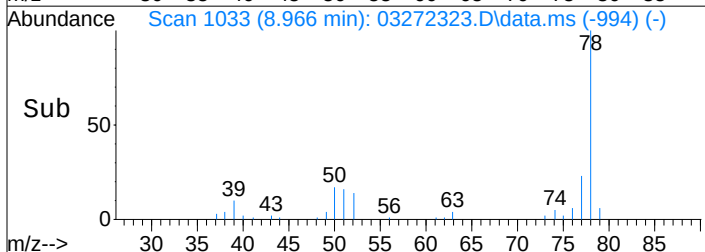
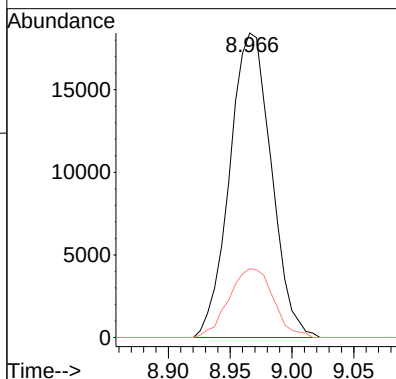
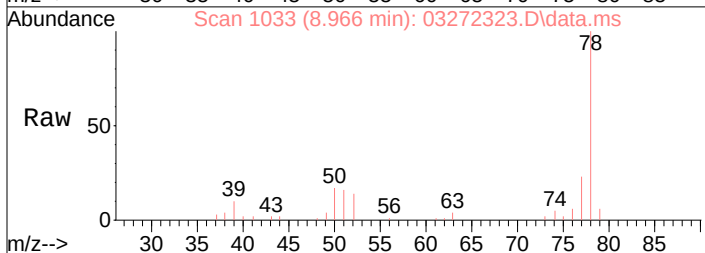
#38
 1,1,1-Trichloroethane
 Concen: 0.17 ng
 RT: 8.46 min Scan# 944
 Delta R.T. -0.040 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:19

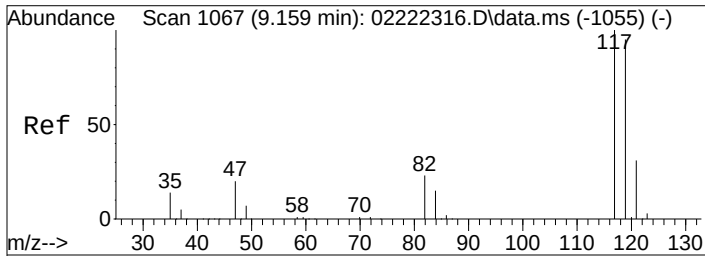
Tgt Ion: 97 Resp: 5648
 Ion Ratio Lower Upper
 97 100
 99 64.4 44.9 84.9
 61 50.8 23.5 63.5



#41
 Benzene
 Concen: 0.56 ng
 RT: 8.97 min Scan# 1033
 Delta R.T. -0.028 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:19

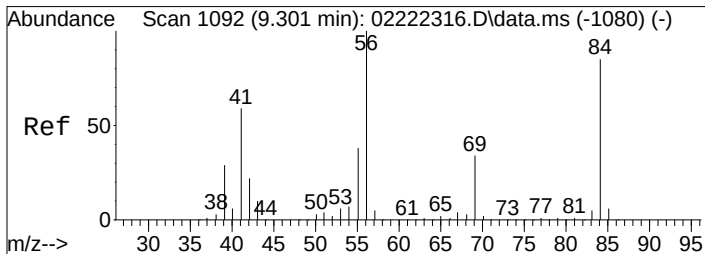
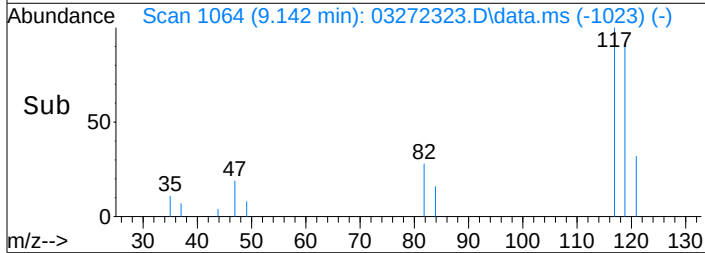
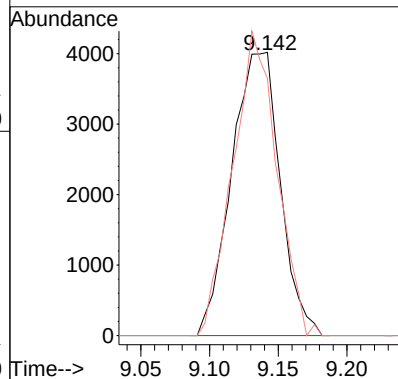
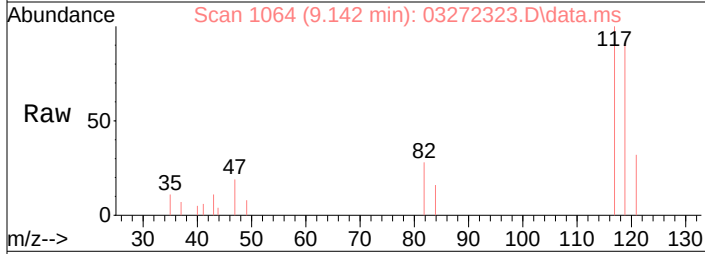
Tgt Ion: 78 Resp: 43238
 Ion Ratio Lower Upper
 78 100
 77 24.1 3.7 43.7





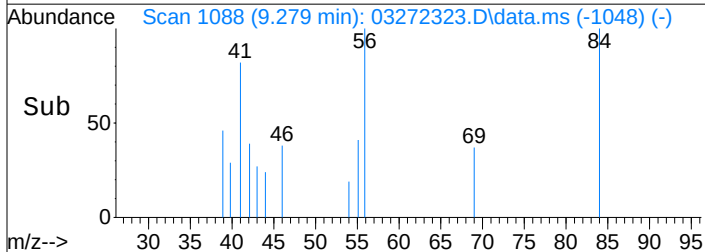
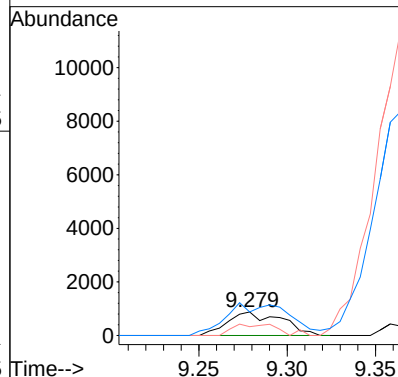
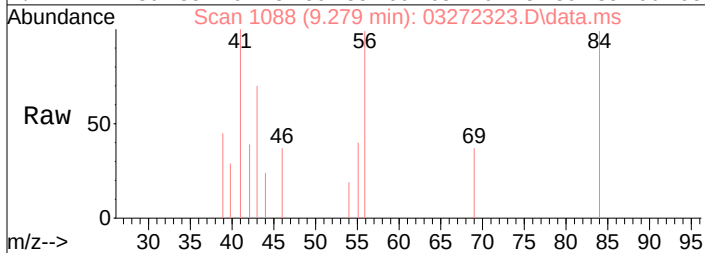
#42
Carbon Tetrachloride
Concen: 0.34 ng
RT: 9.14 min Scan# 1064
Delta R.T. -0.017 min
Lab File: 03272323.D
Acq: 27 Mar 2023 17:19

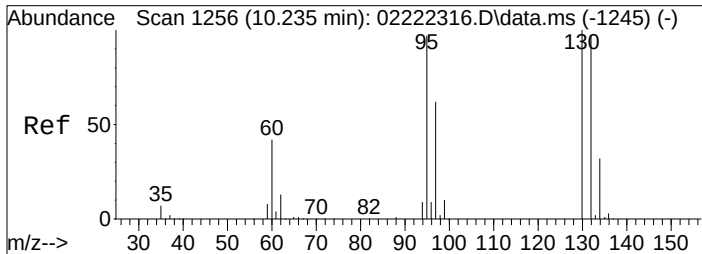
Tgt Ion: 117 Resp: 9897
Ion Ratio Lower Upper
117 100
119 97.6 75.7 115.7



#43
Cyclohexane
Concen: 0.07 ng
RT: 9.28 min Scan# 1088
Delta R.T. -0.023 min
Lab File: 03272323.D
Acq: 27 Mar 2023 17:19

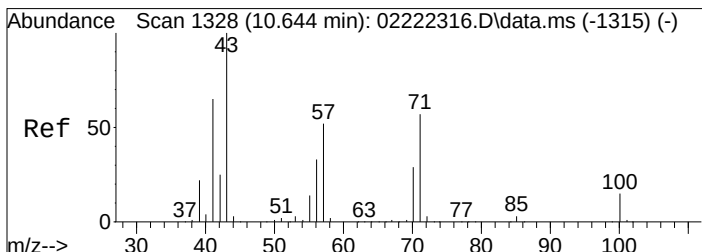
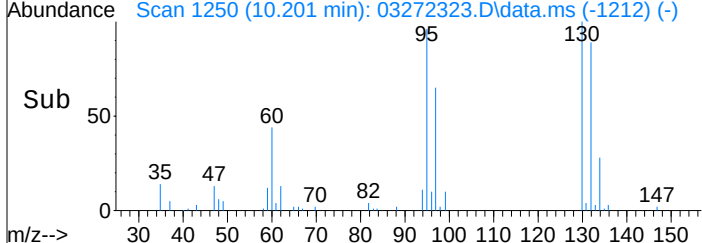
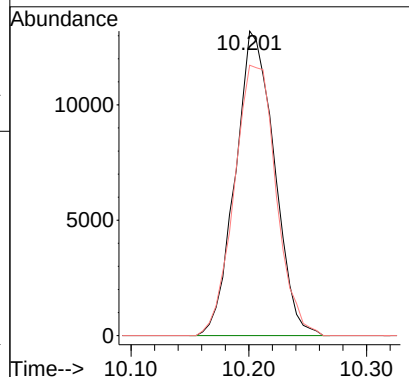
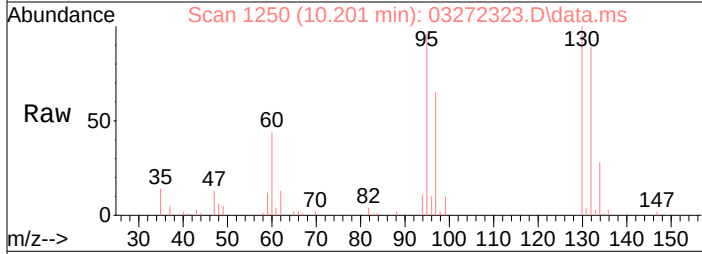
Tgt Ion: 84 Resp: 1867
Ion Ratio Lower Upper
84 100
69 40.7 20.0 60.0
56 159.5 98.5 138.5#





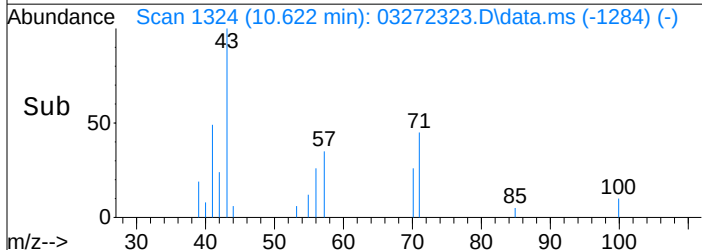
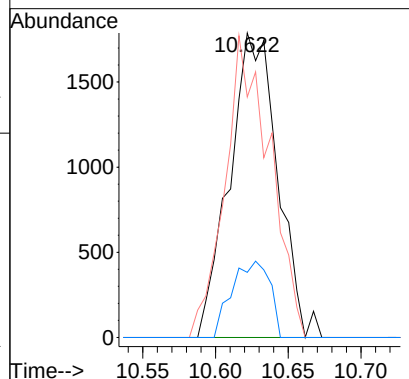
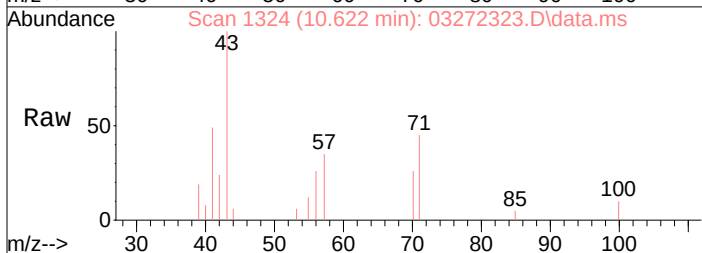
#47
 Trichloroethene
 Concen: 1.35 ng
 RT: 10.20 min Scan# 1250
 Delta R.T. -0.034 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:19

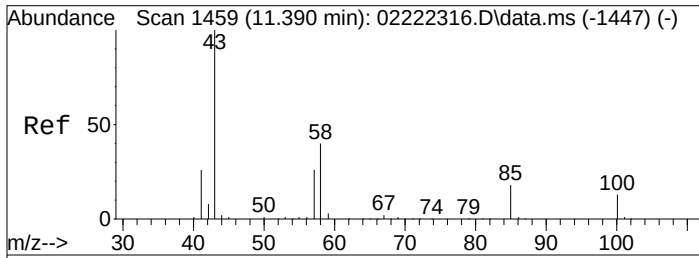
Tgt Ion:	130	Resp:	30374
Ion Ratio	Lower	Upper	
130	100		
132	95.5	76.3	116.3



#51
 n-Heptane
 Concen: 0.22 ng
 RT: 10.62 min Scan# 1324
 Delta R.T. -0.023 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:19

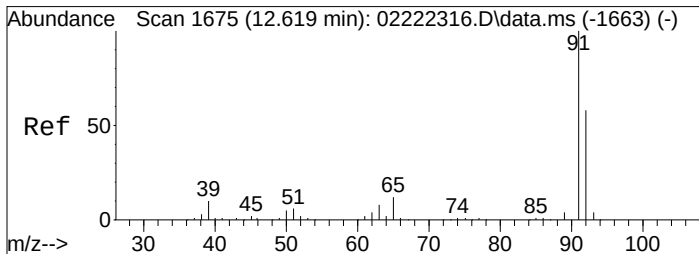
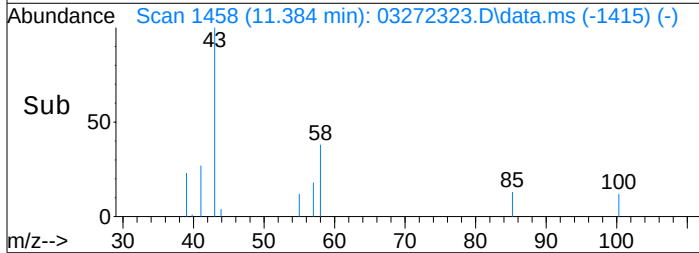
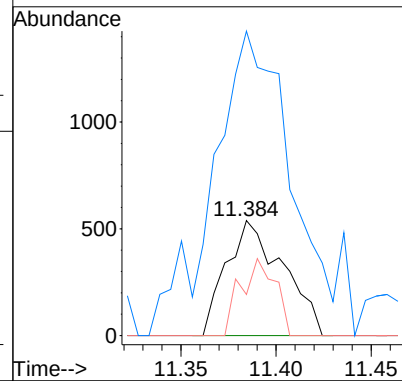
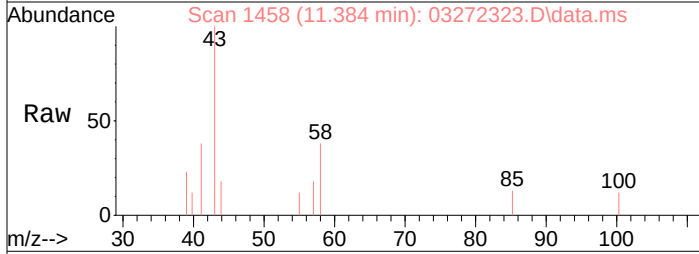
Tgt Ion:	71	Resp:	4113
Ion Ratio	Lower	Upper	
71	100		
57	92.0	71.7	111.7
100	19.7	5.8	45.8





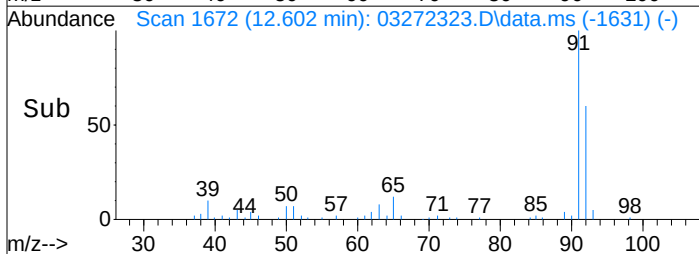
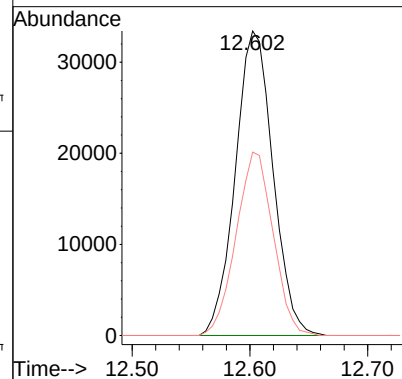
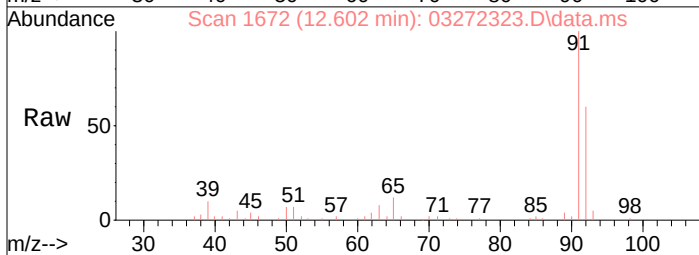
#53
 4-Methyl-2-pentanone
 Concen: 0.07 ng
 RT: 11.38 min Scan# 1458
 Delta R.T. -0.006 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:19

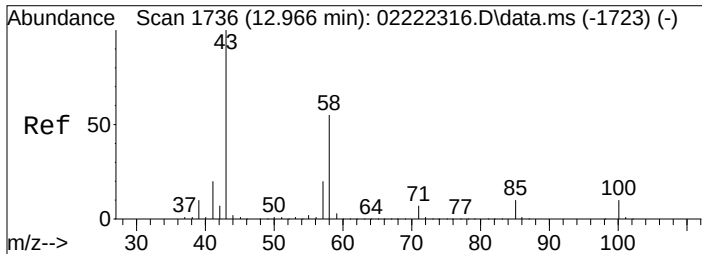
Tgt Ion: 58 Resp: 1118
 Ion Ratio Lower Upper
 58 100
 85 40.7 38.6 58.0
 43 380.1 202.2 303.2#



#58
 Toluene
 Concen: 0.79 ng
 RT: 12.60 min Scan# 1672
 Delta R.T. -0.017 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:19

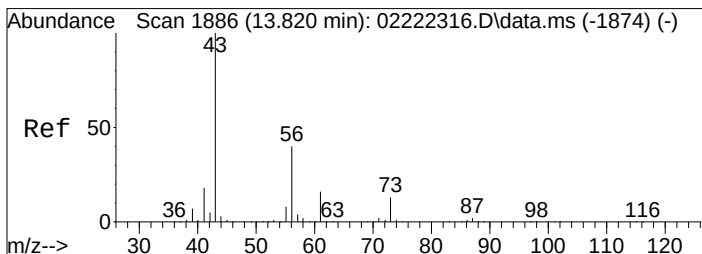
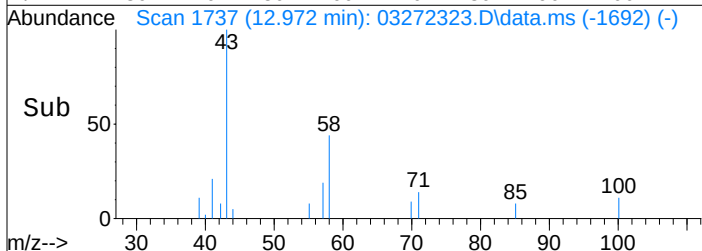
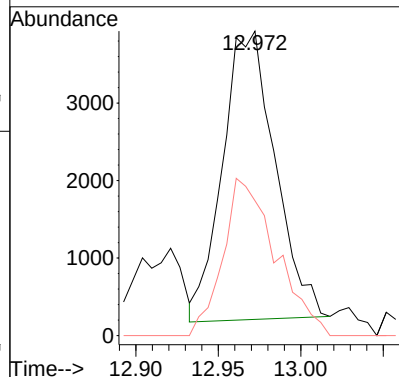
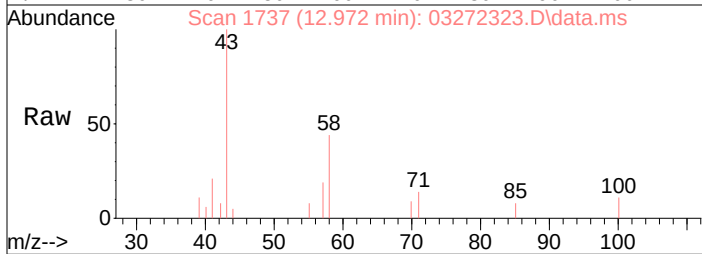
Tgt Ion: 91 Resp: 74383
 Ion Ratio Lower Upper
 91 100
 92 59.2 38.0 78.0





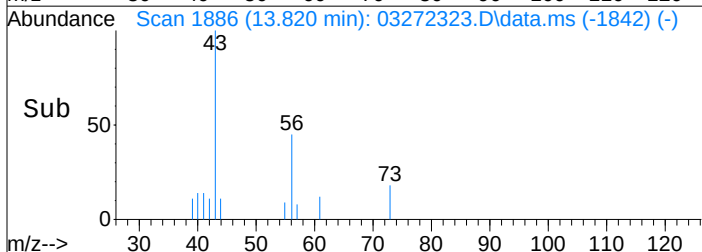
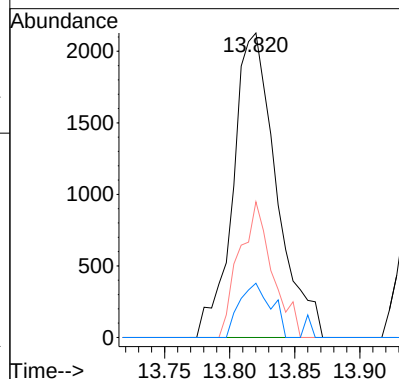
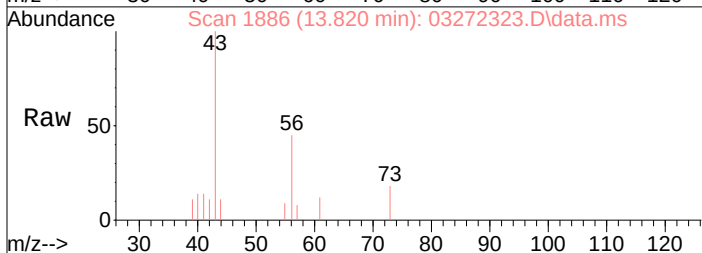
#59
2-Hexanone
Concen: 0.18 ng
RT: 12.97 min Scan# 1737
Delta R.T. 0.006 min
Lab File: 03272323.D
Acq: 27 Mar 2023 17:19

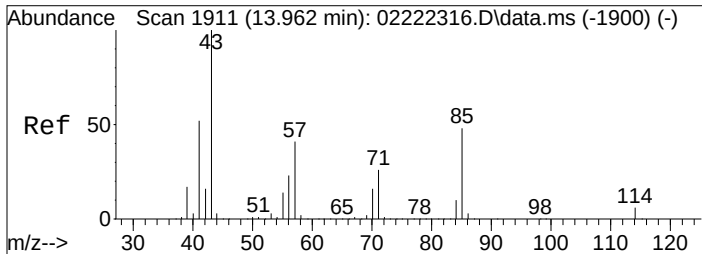
Tgt Ion: 43 Resp: 8255
Ion Ratio Lower Upper
43 100
58 54.7 34.5 74.5



#62
n-Butyl Acetate
Concen: 0.09 ng
RT: 13.82 min Scan# 1886
Delta R.T. 0.000 min
Lab File: 03272323.D
Acq: 27 Mar 2023 17:19

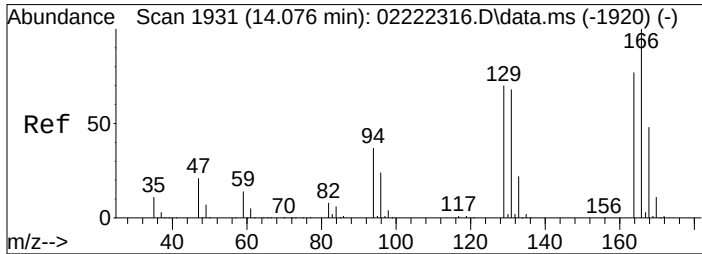
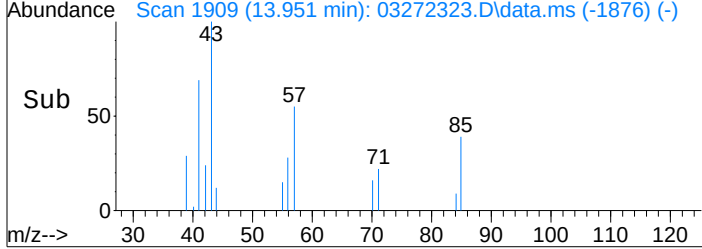
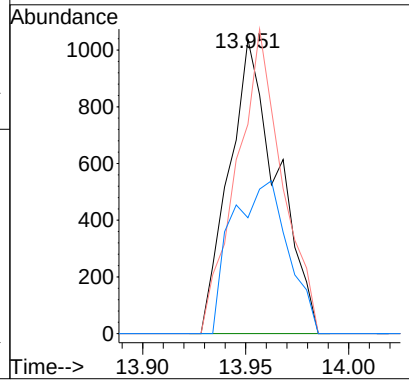
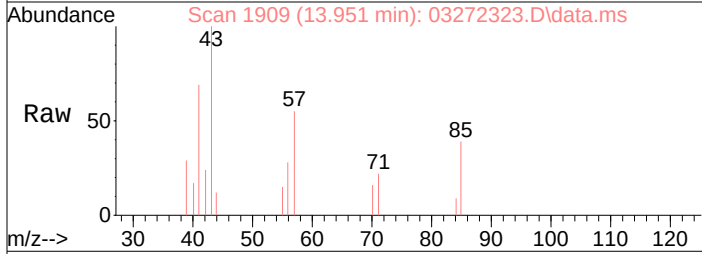
Tgt Ion: 43 Resp: 4928
Ion Ratio Lower Upper
43 100
56 34.0 20.0 60.0
73 13.1 0.0 33.2





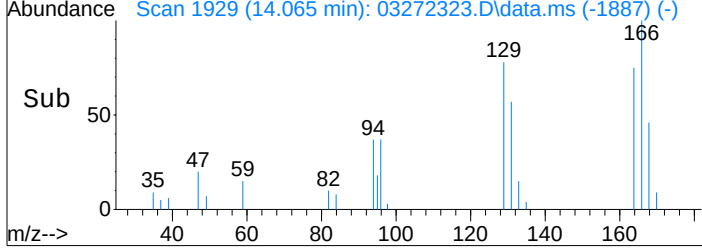
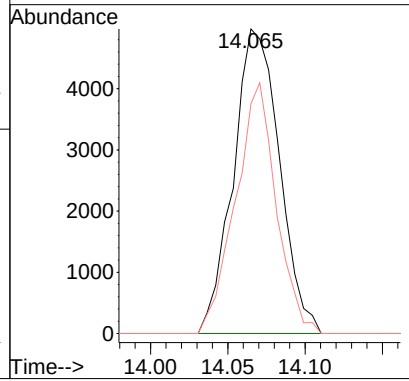
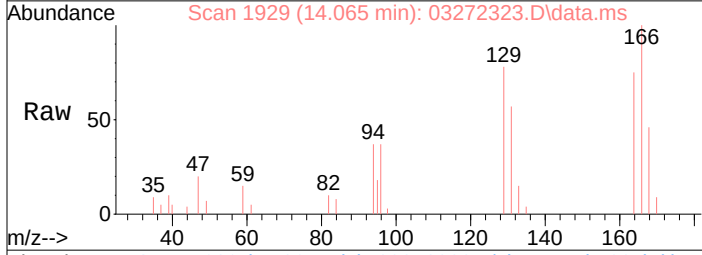
#63
n-Octane
Concen: 0.09 ng
RT: 13.95 min Scan# 1909
Delta R.T. -0.011 min
Lab File: 03272323.D
Acq: 27 Mar 2023 17:19

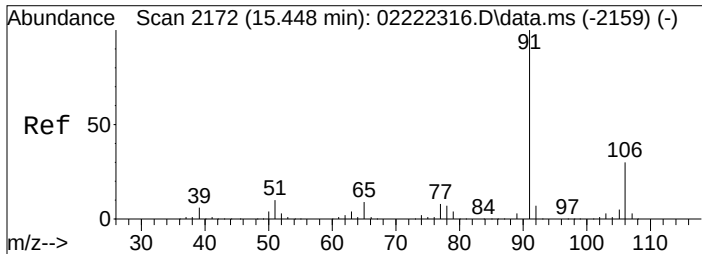
Tgt Ion:	57	Resp:	1688
Ion Ratio		Lower	Upper
57	100		
85	97.4	94.1	141.1
71	60.5	52.6	79.0



#64
Tetrachloroethene
Concen: 0.36 ng
RT: 14.06 min Scan# 1929
Delta R.T. -0.011 min
Lab File: 03272323.D
Acq: 27 Mar 2023 17:19

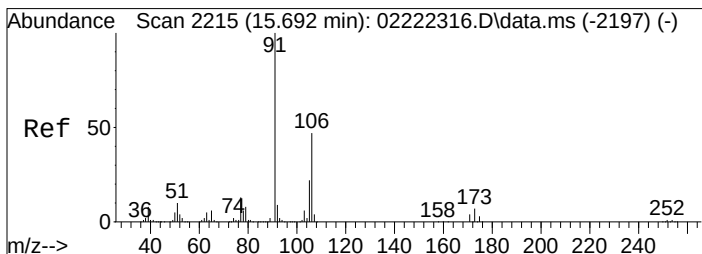
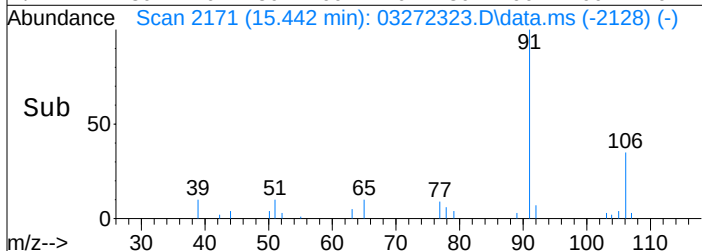
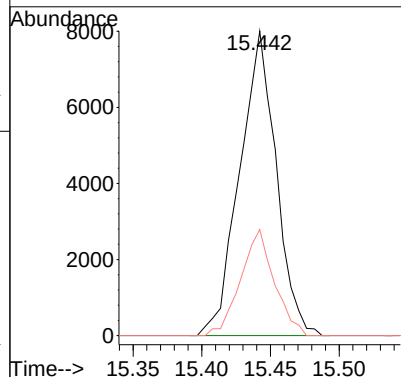
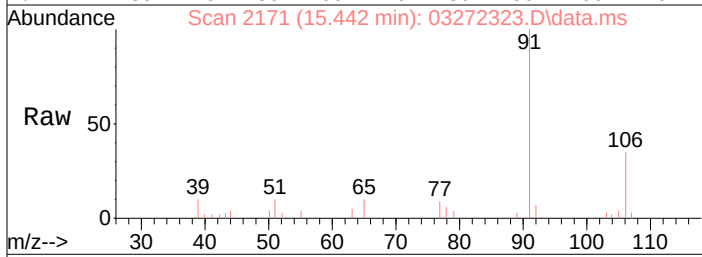
Tgt Ion:	166	Resp:	10362
Ion Ratio		Lower	Upper
166	100		
164	72.7	57.3	97.3





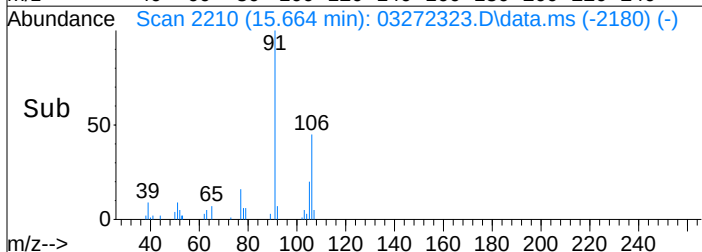
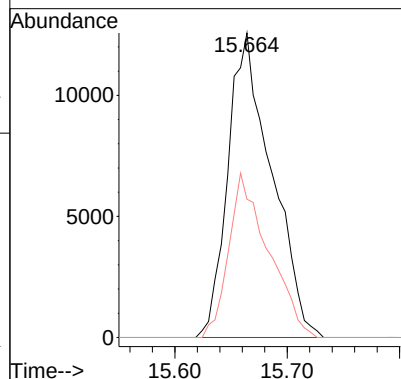
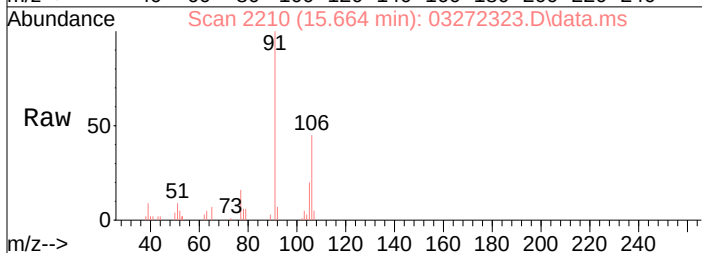
#66
Ethylbenzene
Concen: 0.13 ng
RT: 15.44 min Scan# 2171
Delta R.T. -0.006 min
Lab File: 03272323.D
Acq: 27 Mar 2023 17:19

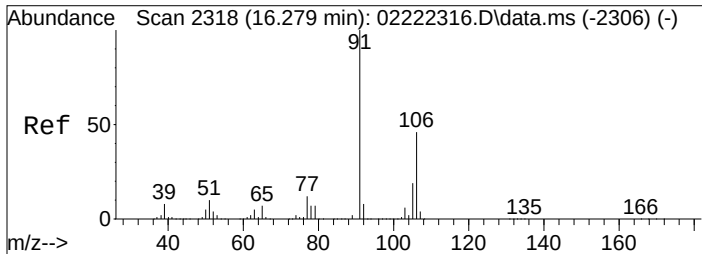
Tgt Ion:	91	Resp:	14771
Ion Ratio	Lower	Upper	
91	100		
106	32.2	10.4	50.4



#67
m- & p-Xylenes
Concen: 0.38 ng
RT: 15.66 min Scan# 2210
Delta R.T. -0.028 min
Lab File: 03272323.D
Acq: 27 Mar 2023 17:19

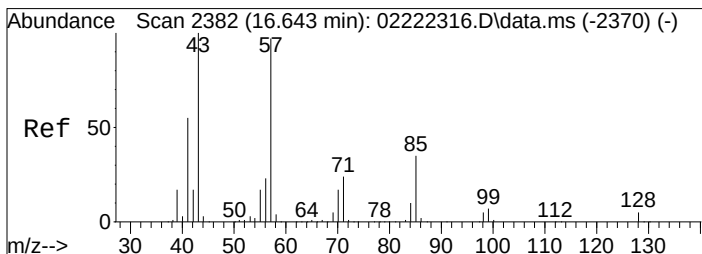
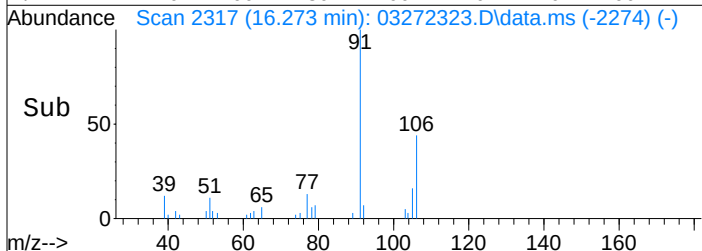
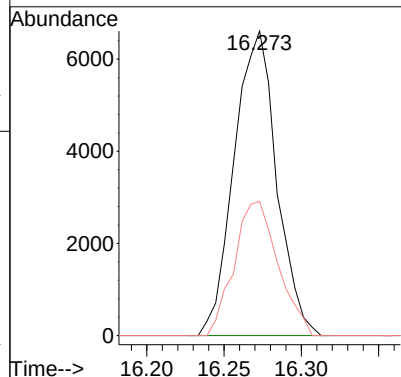
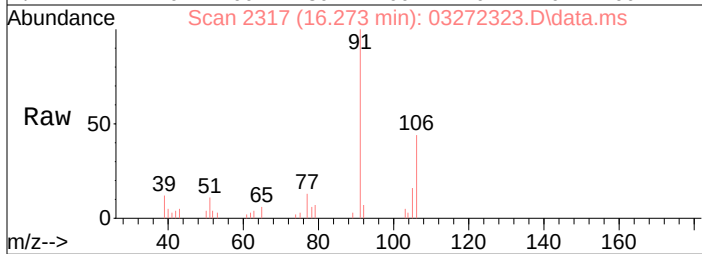
Tgt Ion:	91	Resp:	33945
Ion Ratio	Lower	Upper	
91	100		
106	49.1	26.2	66.2





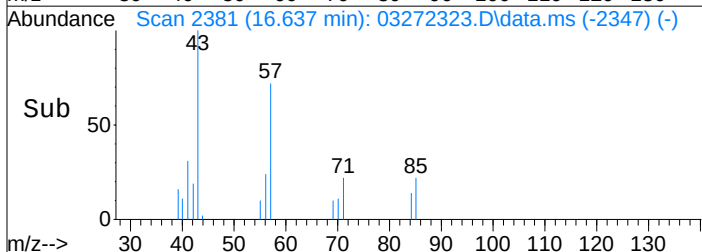
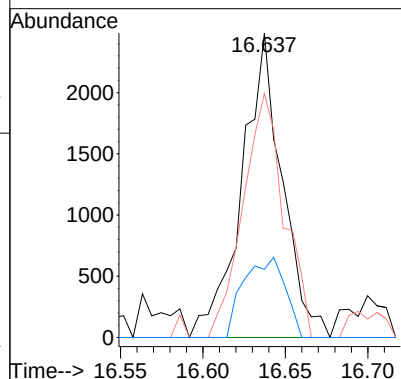
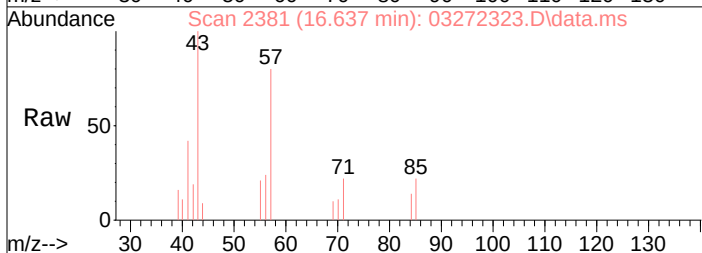
#70
o-Xylene
Concen: 0.15 ng
RT: 16.27 min Scan# 2317
Delta R.T. -0.006 min
Lab File: 03272323.D
Acq: 27 Mar 2023 17:19

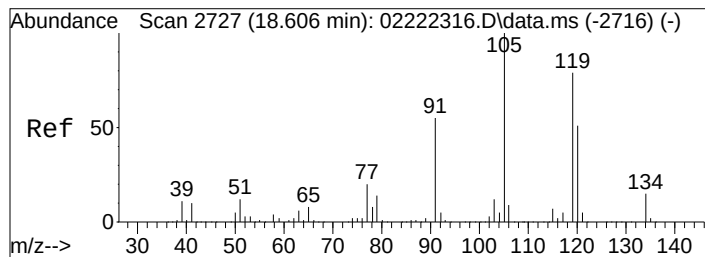
Tgt Ion: 91 Resp: 12668
Ion Ratio Lower Upper
91 100
106 45.6 25.4 65.4



#71
n-Nonane
Concen: 0.10 ng
RT: 16.64 min Scan# 2381
Delta R.T. -0.006 min
Lab File: 03272323.D
Acq: 27 Mar 2023 17:19

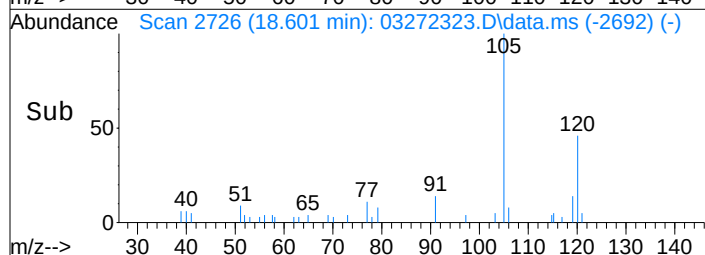
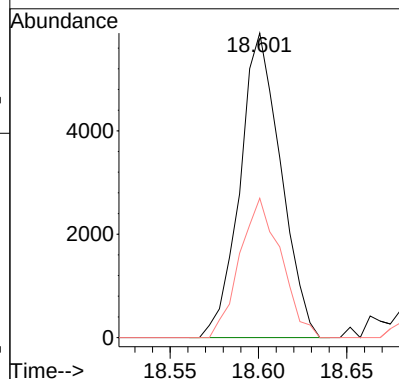
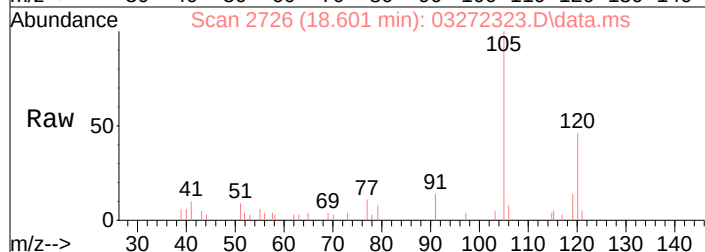
Tgt Ion: 43 Resp: 4238
Ion Ratio Lower Upper
43 100
57 81.8 74.2 114.2
85 27.0 14.2 54.2





#82
 1,2,4-Trimethylbenzene
 Concen: 0.11 ng
 RT: 18.60 min Scan# 2726
 Delta R.T. -0.006 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:19

Tgt Ion: 105 Resp: 9496
 Ion Ratio Lower Upper
 105 100
 120 46.2 32.8 72.8



Data File : I:\MS13\DATA\2023_03\27\03272323.D
 Acq On : 27 Mar 2023 17:19
 Sample : P2301250-033 (1000mL)
 Misc : S35-01202301

Vial: 7
 Operator: TZ
 Inst : MS13

TZ 3/28/23

Quant Time: Mar 28 11:18:06 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.31	130	226678	12.500	ng	-0.01
16) 1,4-Difluorobenzene (C_2)	9.36	114	987070	12.500	ng	-0.02
19) Chlorobenzene-d5 (C_3)	14.87	54	192259	12.500	ng	0.00

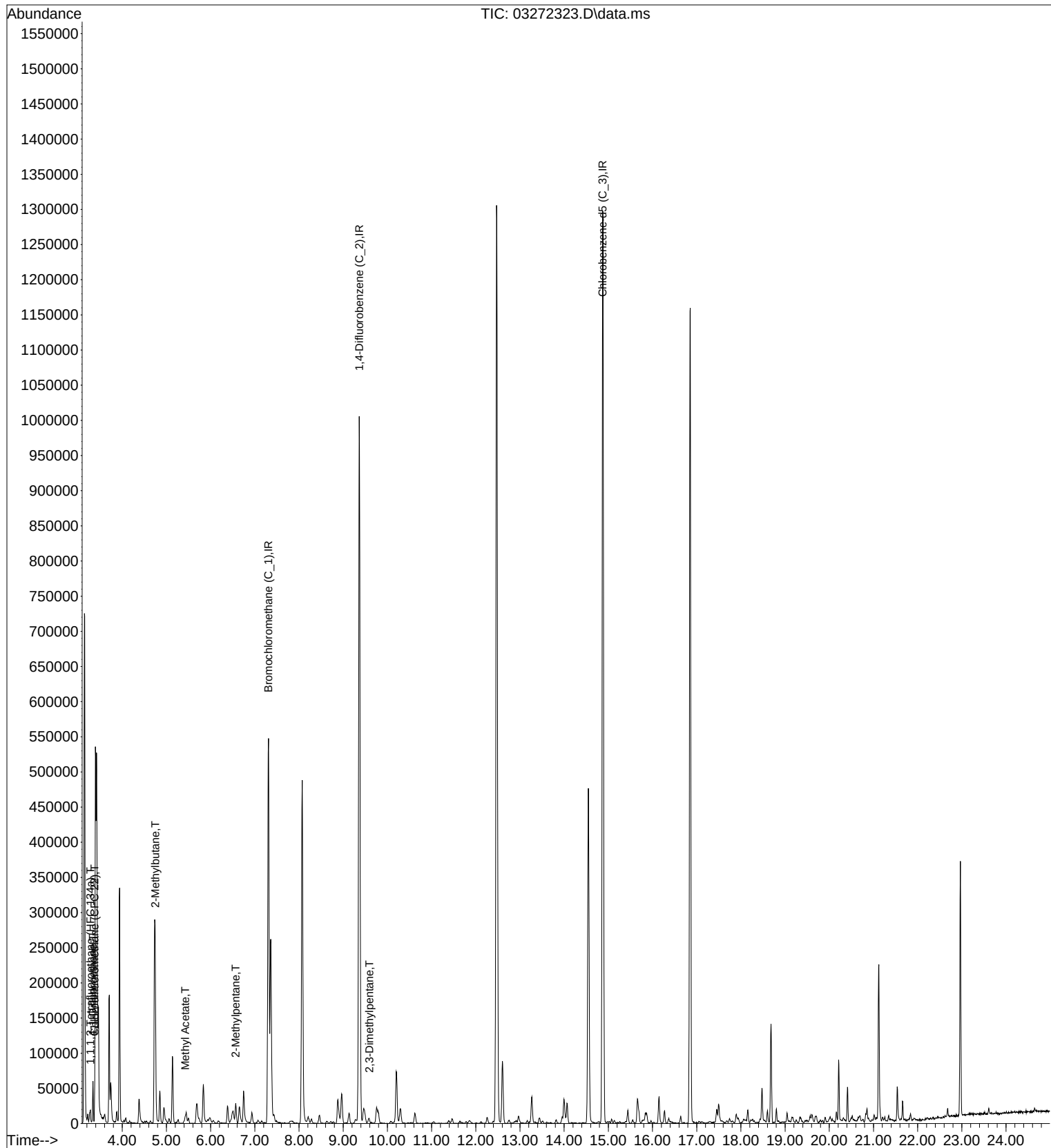
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.22	85	966	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.28	83	5568	0.304	ng	97
4) 1,1-Difluoroethane	3.34	65	16757	1.078	ng	94
5) Chlorodifluoromethane ...	3.38	67	3188	0.577	ng	91
6) 1-Chloro-1,1-Difluoroe...	3.59	65	3045	N.D.		
7) Dichlorofluoromethane ...	4.34	67	55	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	4.67	83	141	N.D.		
10) 2-Methylbutane	4.75	57	46164	2.784	ng	# 83
11) Methyl Acetate	5.43	43	9389	0.251	ng	# 63
12) 2-Methylpentane	6.57	71	5772	0.364	ng	# 72
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	9.13	84	1922	N.D.		
17) 2,3-Dimethylpentane	9.59	56	3666	0.126	ng	88
18) Dibromomethane	9.86	174	418	N.D.		
20) Methyl Cyclohexane	11.46	55	2856	N.D.		
21) 1,3-Dichloropropane	12.61	76	75	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	15.23	91	117	N.D.		
24) 1,2,3-Trichloropropane	16.40	75	70	N.D.		
25) Bromobenzene	17.06	77	166	N.D.		
26) 2-Chlorotoluene	17.67	91	202	N.D.		
27) 4-Chlorotoluene	17.67	91	202	N.D.		
28) Indane	19.39	117	1373	N.D.		
29) Indene	19.50	115	52	N.D.		
30) 1,2,4,5-Tetramethylben...	20.65	119	1851	N.D.		
31) 1,2,3,4-Tetramethylben...	20.69	119	3044	N.D.		
32) 1,2,3,5-Tetramethylben...	21.14	119	2285	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\27\03272323.D
Acq On : 27 Mar 2023 17:19
Sample : P2301250-033 (1000mL)
Misc : S35-01202301

Vial: 7
Operator: TZ
Inst : MS13

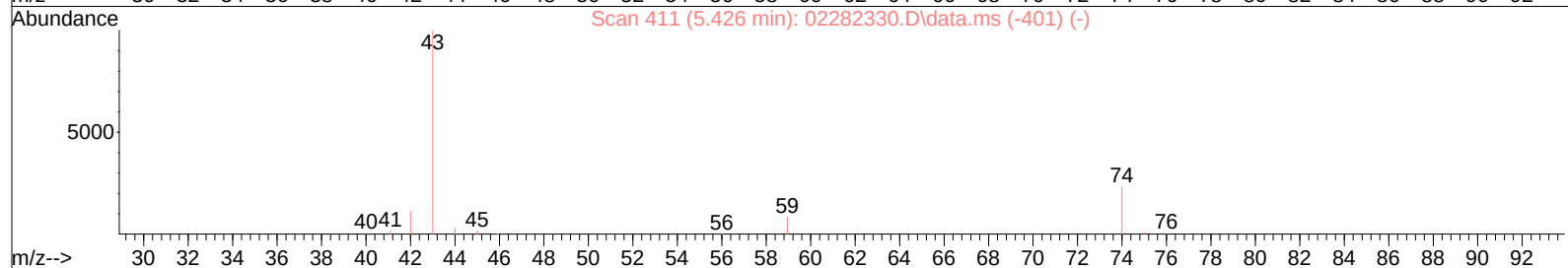
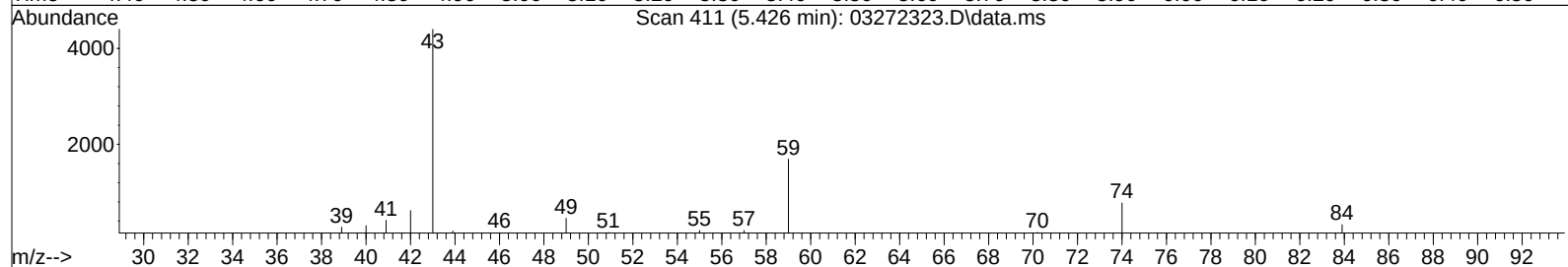
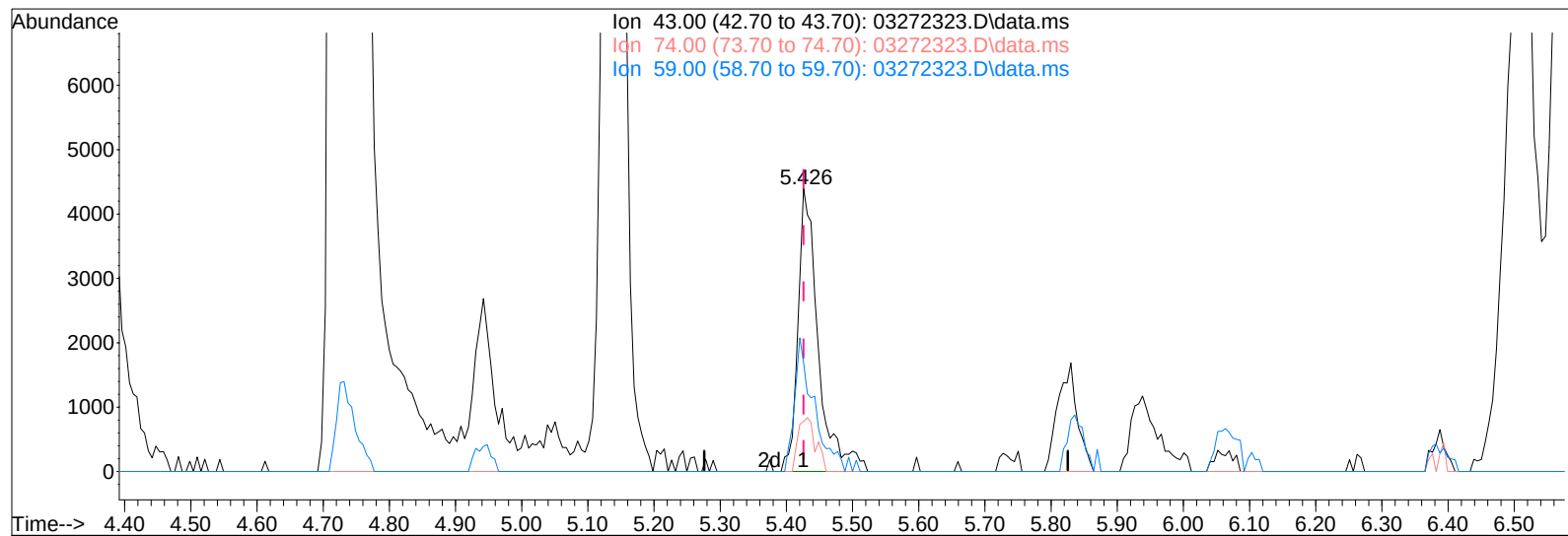
Quant Time: Mar 28 11:18:06 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\27\03272323.D
Acq On : 27 Mar 2023 17:19
Sample : P2301250-033 (1000mL)
Misc : S35-01202301

Vial: 7
Operator: TZ
Inst : MS13

Quant Time: Mar 28 11:18:06 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 03272323.D\data.ms

(11) Methyl Acetate (T)

5.426min (+0.000) 0.25ng

response 9389

Ion	Exp%	Act%
43.00	100	100
74.00	23.00	16.52#
59.00	8.50	44.72#
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG4-1

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-034

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02002

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.21 Final Pressure (psig): 3.53

Container Dilution Factor: 1.46

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.8	0.77	0.13	0.57	0.16	0.026	
74-87-3	Chloromethane	0.23	0.31	0.13	0.11	0.15	0.061	J, V
75-01-4	Vinyl Chloride	ND	0.16	0.083	ND	0.063	0.033	
74-83-9	Bromomethane	ND	0.31	0.11	ND	0.079	0.028	
75-00-3	Chloroethane	ND	0.31	0.096	ND	0.12	0.037	
67-64-1	Acetone	4.5	7.7	1.8	1.9	3.2	0.74	J
75-69-4	Trichlorofluoromethane	1.3	0.76	0.12	0.23	0.14	0.021	
75-35-4	1,1-Dichloroethene	ND	0.16	0.11	ND	0.041	0.027	
75-09-2	Methylene Chloride	0.37	0.77	0.22	0.11	0.22	0.063	J
76-13-1	Trichlorotrifluoroethane	0.37	0.79	0.11	0.048	0.10	0.014	J
75-15-0	Carbon Disulfide	ND	1.6	0.23	ND	0.50	0.075	
156-60-5	trans-1,2-Dichloroethene	ND	0.16	0.11	ND	0.041	0.027	
75-34-3	1,1-Dichloroethane	ND	0.16	0.11	ND	0.040	0.028	
1634-04-4	Methyl tert-Butyl Ether	ND	0.79	0.092	ND	0.22	0.026	
78-93-3	2-Butanone (MEK)	0.47	1.5	0.16	0.16	0.52	0.054	J
156-59-2	cis-1,2-Dichloroethene	0.12	0.16	0.11	0.029	0.041	0.028	J
67-66-3	Chloroform	0.18	0.16	0.10	0.037	0.033	0.021	
107-06-2	1,2-Dichloroethane	ND	0.16	0.086	ND	0.040	0.021	
71-55-6	1,1,1-Trichloroethane	0.11	0.16	0.096	0.021	0.029	0.018	J
71-43-2	Benzene	ND	0.16	0.11	ND	0.050	0.035	
56-23-5	Carbon Tetrachloride	0.20	0.16	0.11	0.032	0.026	0.017	
110-82-7	Cyclohexane	ND	1.5	0.22	ND	0.45	0.064	
78-87-5	1,2-Dichloropropane	ND	0.16	0.096	ND	0.035	0.021	
75-27-4	Bromodichloromethane	ND	0.16	0.11	ND	0.024	0.017	
79-01-6	Trichloroethene	0.43	0.16	0.11	0.080	0.030	0.020	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG4-1

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-034

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02002

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.21 Final Pressure (psig): 3.53

Container Dilution Factor: 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.79	0.12	ND	0.17	0.027	
108-10-1	4-Methyl-2-pentanone	ND	1.6	0.11	ND	0.39	0.026	
10061-02-6	trans-1,3-Dichloropropene	ND	0.74	0.16	ND	0.16	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.16	0.079	ND	0.029	0.014	
108-88-3	Toluene	ND	0.77	0.095	ND	0.21	0.025	
591-78-6	2-Hexanone	ND	1.6	0.096	ND	0.39	0.024	
124-48-1	Dibromochloromethane	ND	0.16	0.10	ND	0.019	0.012	
106-93-4	1,2-Dibromoethane	ND	0.16	0.091	ND	0.021	0.012	
127-18-4	Tetrachloroethene	ND	0.16	0.10	ND	0.024	0.015	
108-90-7	Chlorobenzene	ND	0.77	0.10	ND	0.17	0.023	
100-41-4	Ethylbenzene	ND	0.77	0.11	ND	0.18	0.025	
179601-23-1	m,p-Xylenes	ND	1.6	0.20	ND	0.37	0.047	
75-25-2	Bromoform	ND	0.79	0.16	ND	0.076	0.016	
100-42-5	Styrene	ND	0.77	0.13	ND	0.18	0.030	
95-47-6	o-Xylene	ND	0.77	0.11	ND	0.18	0.026	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	0.11	ND	0.023	0.016	
98-82-8	Cumene	ND	0.79	0.11	ND	0.16	0.023	
541-73-1	1,3-Dichlorobenzene	ND	0.77	0.12	ND	0.13	0.019	
106-46-7	1,4-Dichlorobenzene	ND	0.77	0.12	ND	0.13	0.020	
95-50-1	1,2-Dichlorobenzene	ND	0.79	0.12	ND	0.13	0.019	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.6	0.15	ND	0.17	0.015	
120-82-1	1,2,4-Trichlorobenzene	ND	1.6	0.19	ND	0.22	0.026	
79-20-9	Methyl Acetate	ND	0.73	0.35	ND	0.24	0.12	X
108-87-2	Methylcyclohexane	ND	0.73	0.38	ND	0.18	0.095	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

X = See case narrative.

Data File : I:\MS16\DATA\2023_03\27\03272325.D
 Acq On : 27 Mar 2023 19:02
 Sample : P2301250-034 (1000mL)
 Misc : S35-01312301

Vial: 3
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 19:26:19 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

407 3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	216547	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	979913	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.72	54	210249	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	371107	12.887	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	103.12%
57) Toluene-d8 (SS2)	15.86	98	1112089	12.082	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	96.64%
73) Bromofluorobenzene (SS3)	19.10	174	348562	12.141	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	97.12%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	4.35	85	62319	1.925	ng	99
4) Chloromethane	4.64	50	4680	0.155	ng	92
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	1520	0.084	ng	95
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.35	54	372	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.47	45	26330	1.263	ng	93
11) Acetonitrile	6.74	41	3111	0.060	ng	83
12) Acrolein	6.94	56	1835	0.124	ng	97
13) Acetone	7.15	58	48853	3.065	ng	99
14) Trichlorofluoromethane	7.39	101	26025	0.872	ng	100
15) 2-Propanol (Isopropanol)	7.72	45	8196	0.148	ng	90
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	8.60	59	54	N.D.		
19) Methylene Chloride	8.56	84	4509	0.256	ng	87
20) 3-Chloro-1-propene (Al...	8.66	41	247	N.D.		
21) Trichlorotrifluoroethane	9.00	151	3768	0.253	ng	90
22) Carbon Disulfide	8.84	76	5878	0.094	ng	89
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	10.10	63	1510	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone (MEK)	10.63	72	3736	0.323	ng	98
28) cis-1,2-Dichloroethene	11.10	61	2086	0.079	ng	89
29) Diisopropyl Ether	11.44	87	421	N.D.		
30) Ethyl Acetate	11.44	61	5160	0.683	ng	99
31) n-Hexane	11.39	57	693	N.D.		
32) Chloroform	11.45	83	3618	0.125	ng	98
34) Tetrahydrofuran (THF)	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	12.25	62	658	N.D.		
38) 1,1,1-Trichloroethane	12.54	97	2032	0.077	ng	95
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.02	78	3842	0.056	ng	97
42) Carbon Tetrachloride	13.17	117	3124	0.139	ng	95
43) Cyclohexane	13.31	84	727	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	14.11	130	5545	0.295	ng	98
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS16\DATA\2023_03\27\03272325.D
 Acq On : 27 Mar 2023 19:02
 Sample : P2301250-034 (1000mL)
 Misc : S35-01312301

Vial: 3
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 19:26:19 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

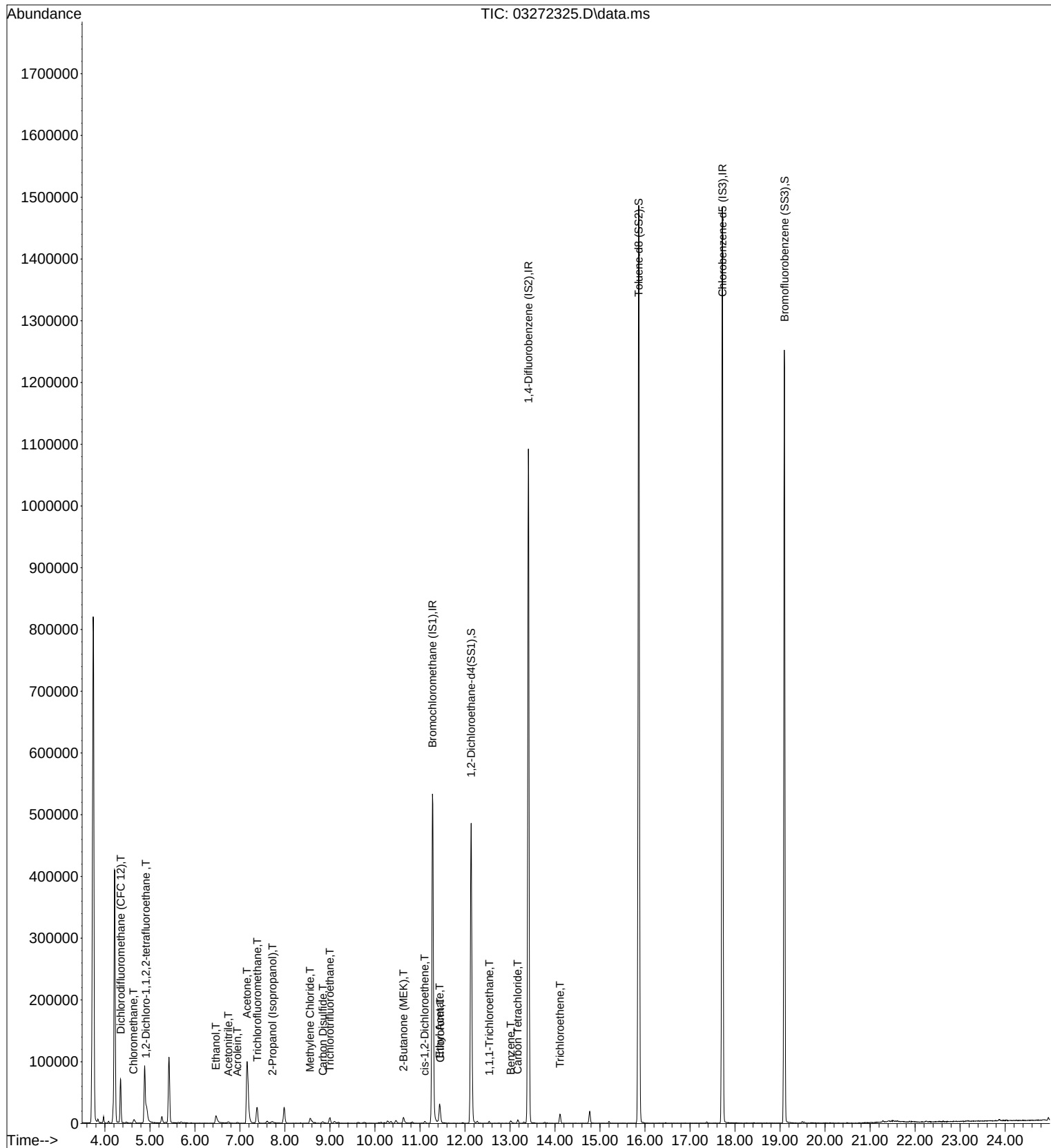
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.96	91	603	N.D.		
59) 2-Hexanone	0.00	43	0	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	0.00	43	0	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	0.00	91	0	N.D.		
67) m- & p-Xylenes	18.26	91	121	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	0.00	91	0	N.D.		
71) n-Nonane	0.00	43	0	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	0.00	105	0	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	0.00	91	0	N.D.		
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	0.00	105	0	N.D.		
79) 1,3,5-Trimethylbenzene	0.00	105	0	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	0.00	105	0	N.D.		
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
86) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
87) sec-Butylbenzene	0.00	105	0	N.D.		
88) 4-Isopropyltoluene (p-...	20.59	119	118	N.D.		
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	0.00	68	0	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	0.00	128	0	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	0.00	119	0	N.D.		
100) n-Butylbenzene	0.00	91	0	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\27\03272325.D
Acq On : 27 Mar 2023 19:02
Sample : P2301250-034 (1000mL)
Misc : S35-01312301

Vial: 3
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 19:26:19 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



Data File : I:\MS16\DATA\2023_03\27\03272325.D
 Acq On : 27 Mar 2023 19:02
 Sample : P2301250-034 (1000mL)
 Misc : S35-01312301

Vial: 3
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 19:26:19 2023

3/27/23

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	216547	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	979913	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.72	54	210249	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	371107	12.887	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	103.12%
57) Toluene-d8 (SS2)	15.86	98	1112089	12.082	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	96.64%
73) Bromofluorobenzene (SS3)	19.10	174	348562	12.141	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	97.12%

Target Compounds

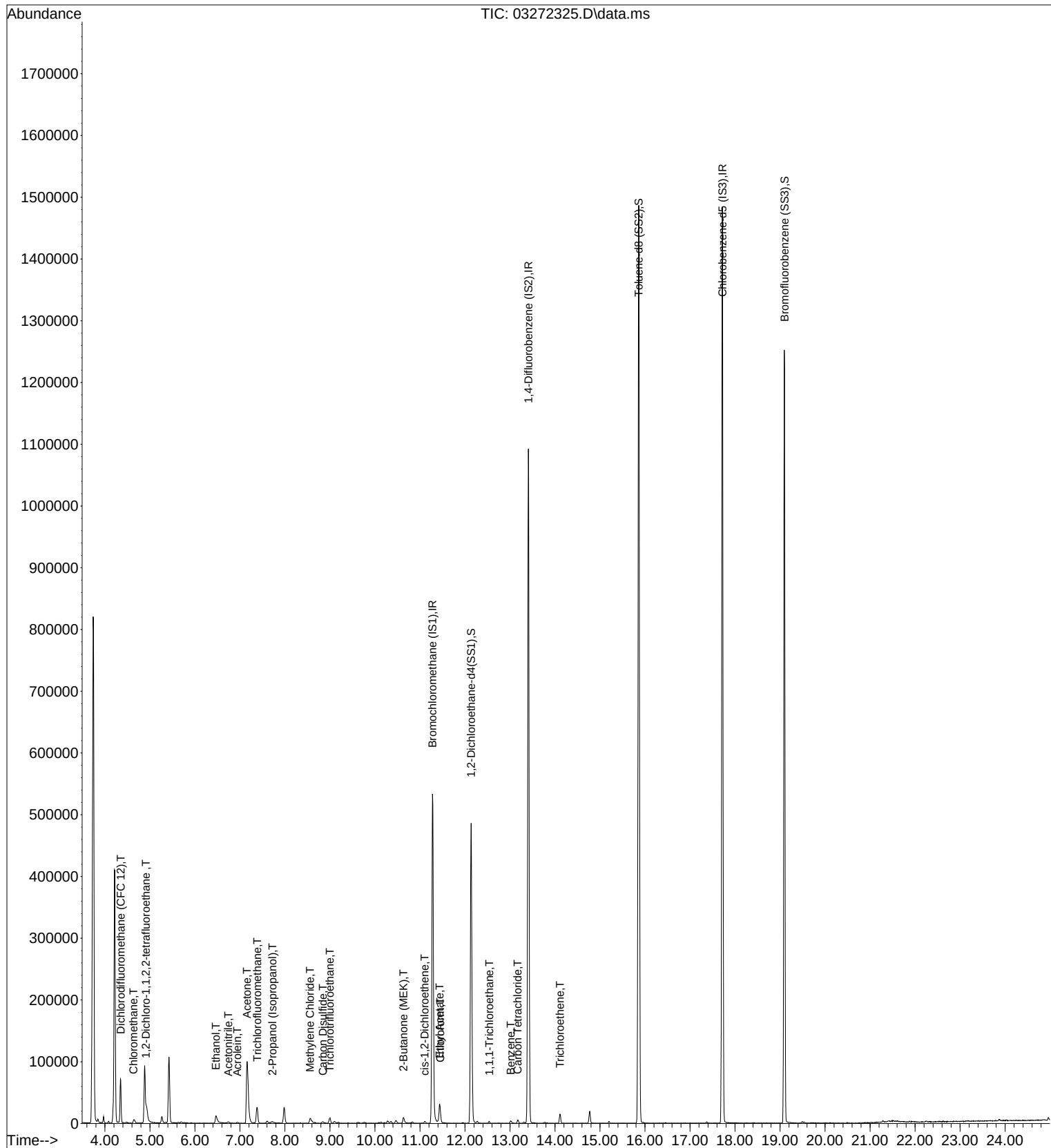
					Qvalue
3) Dichlorodifluoromethan...	4.35	85	62319	1.925	ng 99
4) Chloromethane	4.64	50	4680	0.155	ng 92
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	1520	0.084	ng 95
10) Ethanol	6.47	45	26330	1.263	ng 93
11) Acetonitrile	6.74	41	3111	0.060	ng 83
12) Acrolein	6.94	56	1835	0.124	ng 97
13) Acetone	7.15	58	48853	3.065	ng 99
14) Trichlorofluoromethane	7.39	101	26025	0.872	ng 100
15) 2-Propanol (Isopropanol)	7.72	45	8196	0.148	ng 90
19) Methylene Chloride	8.56	84	4509	0.256	ng 87
21) Trichlorotrifluoroethane	9.00	151	3768	0.253	ng 90
22) Carbon Disulfide	8.84	76	5878	0.094	ng 89
27) 2-Butanone (MEK)	10.63	72	3736	0.323	ng 98
28) cis-1,2-Dichloroethene	11.10	61	2086	0.079	ng 89
30) Ethyl Acetate	11.44	61	5160	0.683	ng 99
32) Chloroform	11.45	83	3618	0.125	ng 98
38) 1,1,1-Trichloroethane	12.54	97	2032	0.077	ng 95
41) Benzene	13.02	78	3842	0.056	ng 97
42) Carbon Tetrachloride	13.17	117	3124	0.139	ng 95
47) Trichloroethene	14.11	130	5545	0.295	ng 98

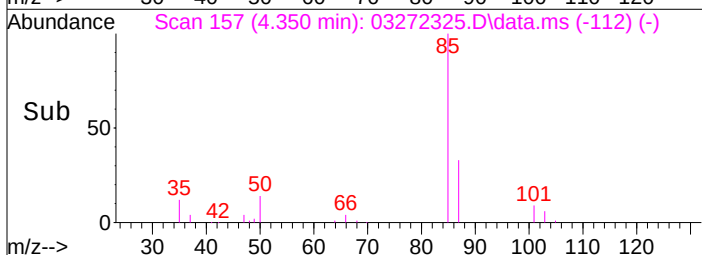
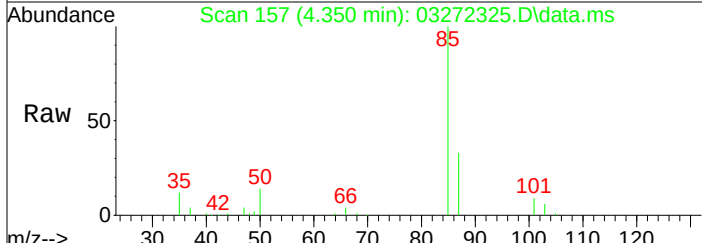
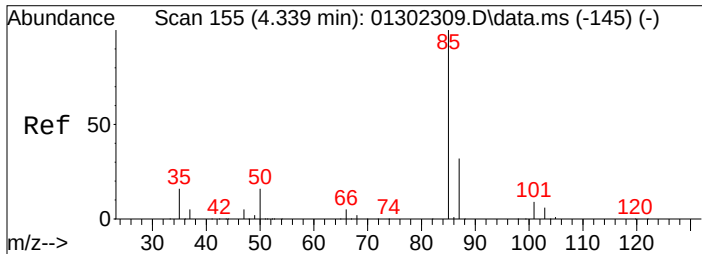
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS16\DATA\2023_03\27\03272325.D
Acq On : 27 Mar 2023 19:02
Sample : P2301250-034 (1000mL)
Misc : S35-01312301

Vial: 3
Operator: WA
Inst : GCMS-16

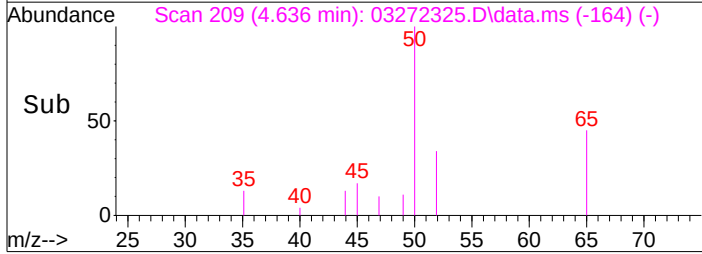
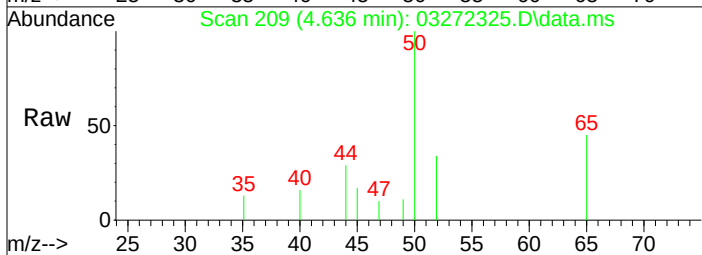
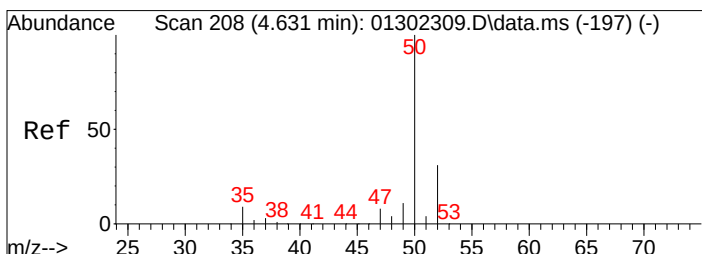
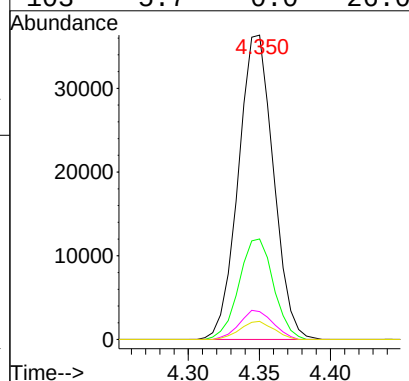
Quant Time: Mar 27 19:26:19 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M





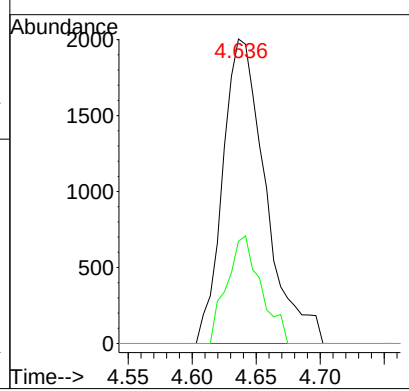
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.93 ng
 RT: 4.35 min Scan# 157
 Delta R.T. 0.000 min
 Lab File: 03272325.D
 Acq: 27 Mar 2023 19:02

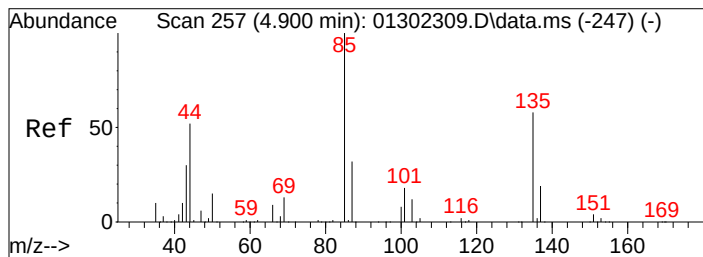
Tgt Ion:	85	Resp:	62319
Ion Ratio	Lower	Upper	
85	100		
87	32.5	12.1	52.1
101	9.2	0.0	29.3
103	5.7	0.0	26.0



#4
 Chloromethane
 Concen: 0.15 ng
 RT: 4.64 min Scan# 209
 Delta R.T. 0.000 min
 Lab File: 03272325.D
 Acq: 27 Mar 2023 19:02

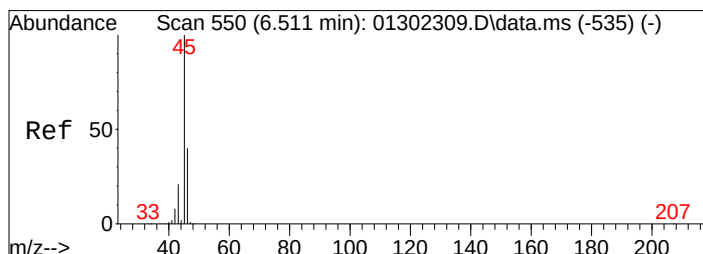
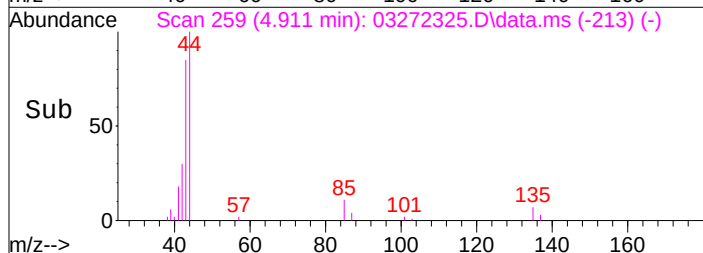
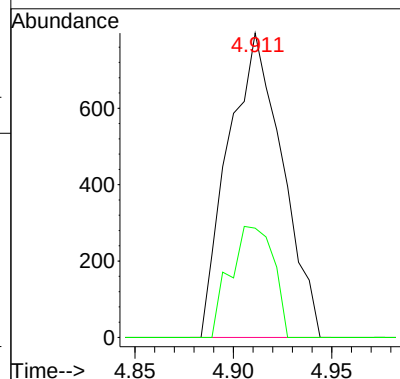
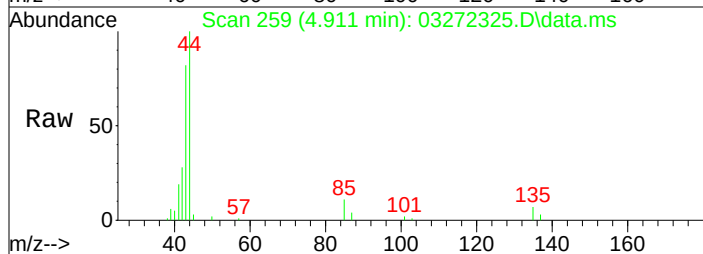
Tgt Ion:	50	Resp:	4680
Ion Ratio	Lower	Upper	
50	100		
52	28.0	12.2	52.2





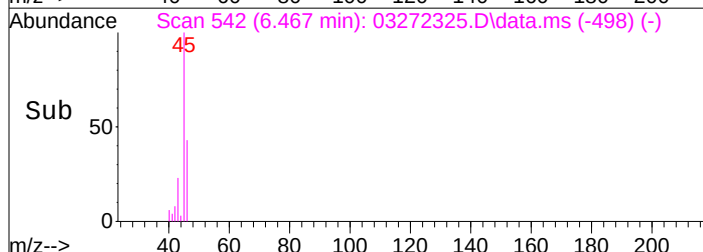
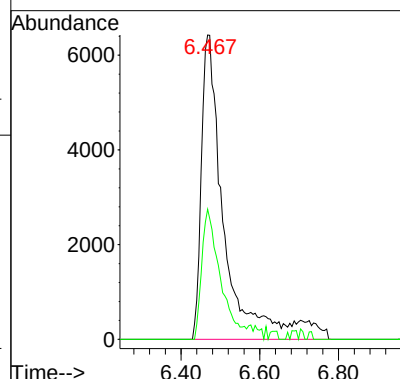
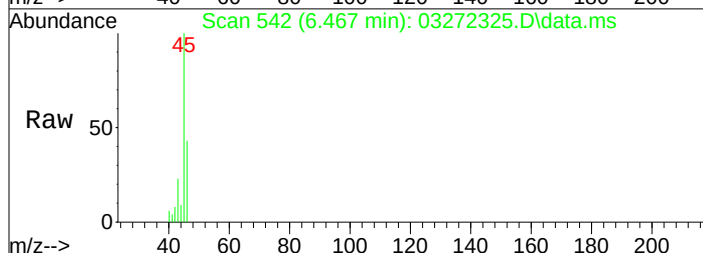
#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.08 ng
 RT: 4.91 min Scan# 259
 Delta R.T. 0.006 min
 Lab File: 03272325.D
 Acq: 27 Mar 2023 19:02

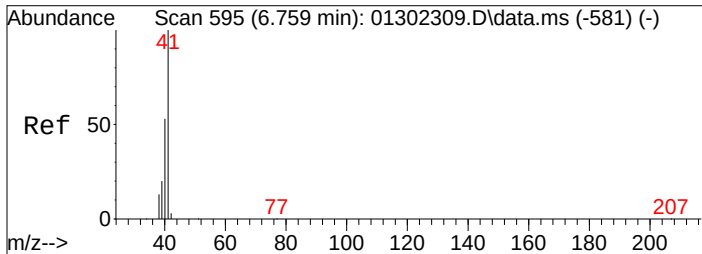
Tgt Ion: 135 Resp: 1520
 Ion Ratio Lower Upper
 135 100
 137 29.3 12.0 52.0



#10
 Ethanol
 Concen: 1.26 ng
 RT: 6.47 min Scan# 542
 Delta R.T. -0.011 min
 Lab File: 03272325.D
 Acq: 27 Mar 2023 19:02

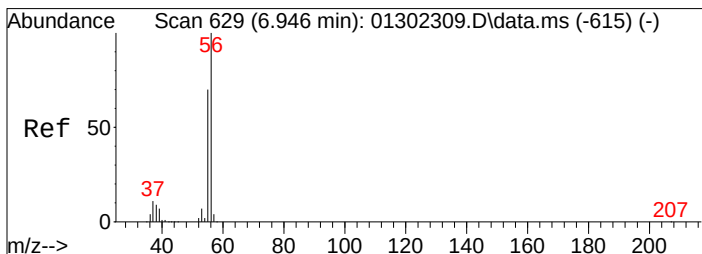
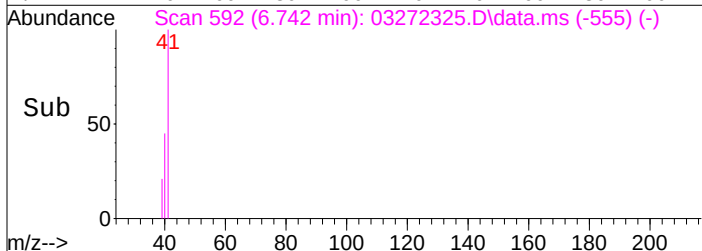
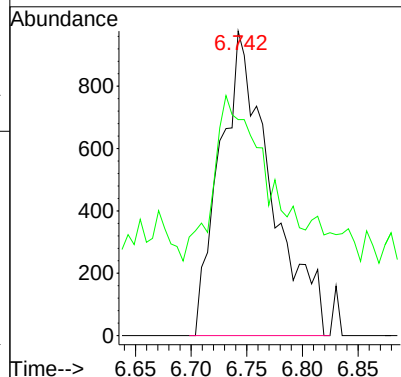
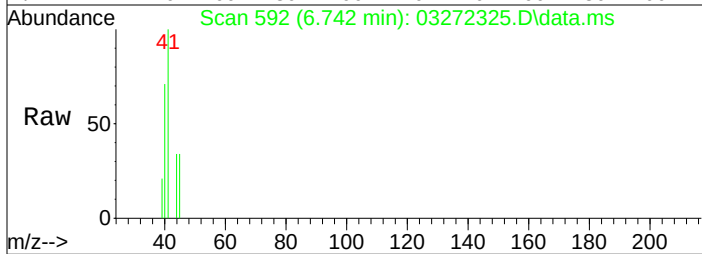
Tgt Ion: 45 Resp: 26330
 Ion Ratio Lower Upper
 45 100
 46 36.2 20.5 60.5





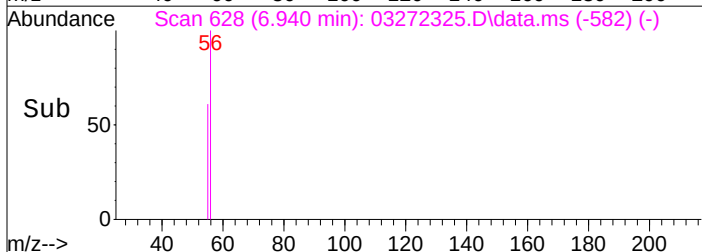
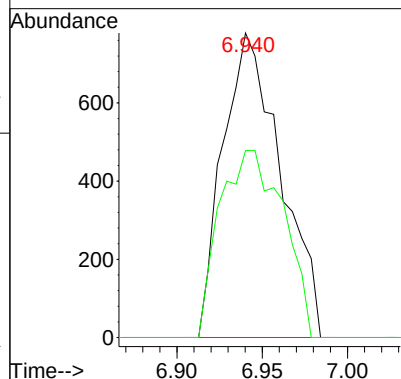
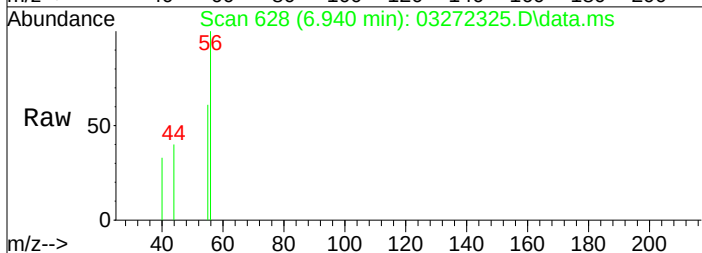
#11
Acetonitrile
Concen: 0.06 ng
RT: 6.74 min Scan# 592
Delta R.T. 0.005 min
Lab File: 03272325.D
Acq: 27 Mar 2023 19:02

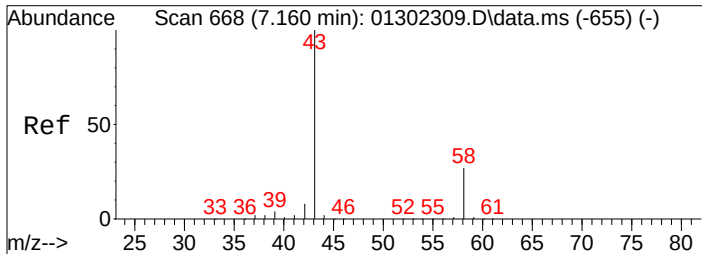
Tgt Ion: 41 Resp: 3111
Ion Ratio Lower Upper
41 100
40 64.1 32.4 72.4



#12
Acrolein
Concen: 0.12 ng
RT: 6.94 min Scan# 628
Delta R.T. 0.005 min
Lab File: 03272325.D
Acq: 27 Mar 2023 19:02

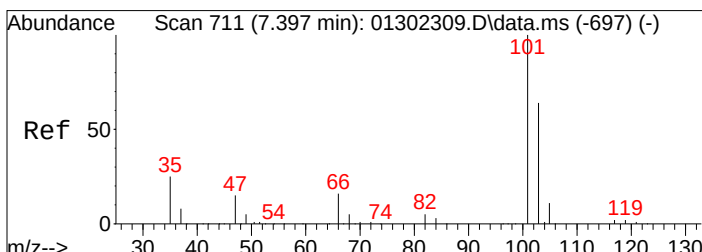
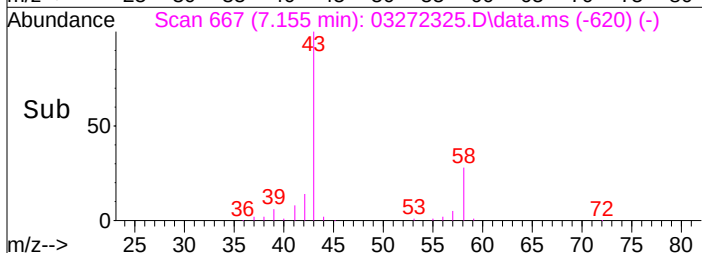
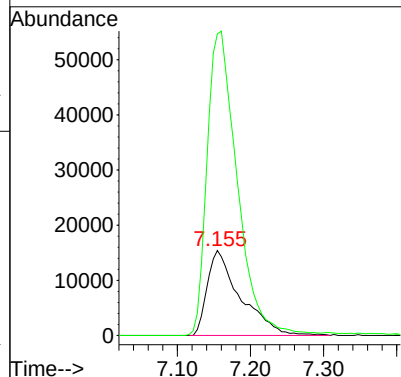
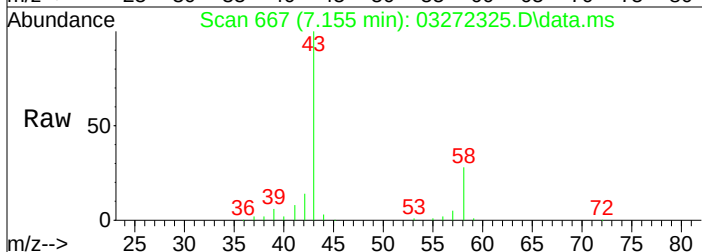
Tgt Ion: 56 Resp: 1835
Ion Ratio Lower Upper
56 100
55 67.6 49.9 89.9





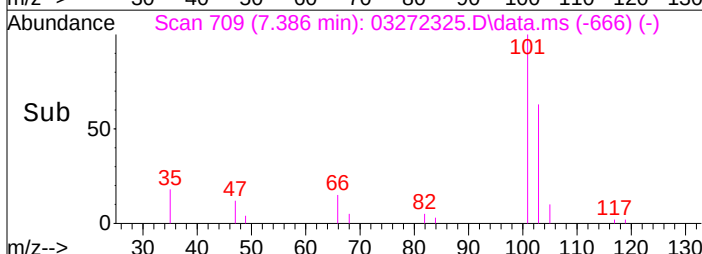
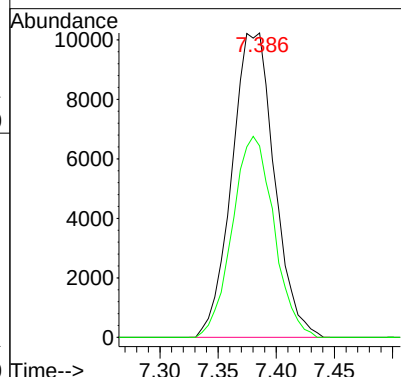
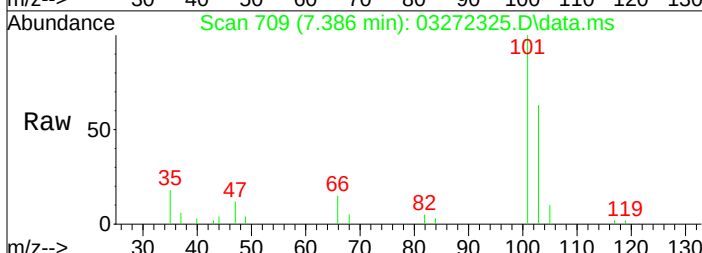
#13
Acetone
Concen: 3.07 ng
RT: 7.15 min Scan# 667
Delta R.T. 0.011 min
Lab File: 03272325.D
Acq: 27 Mar 2023 19:02

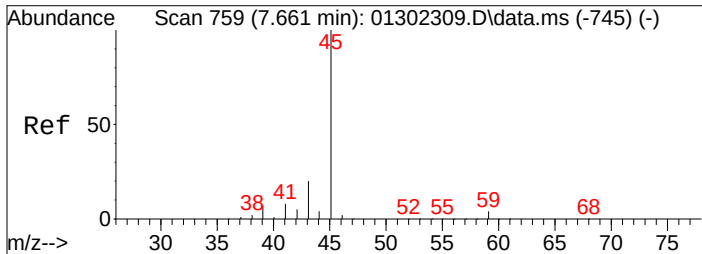
Tgt Ion: 58 Resp: 48853
Ion Ratio Lower Upper
58 100
43 326.9 298.5 358.5



#14
Trichlorofluoromethane
Concen: 0.87 ng
RT: 7.39 min Scan# 709
Delta R.T. -0.011 min
Lab File: 03272325.D
Acq: 27 Mar 2023 19:02

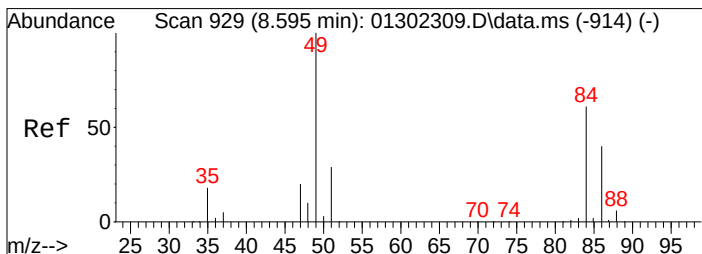
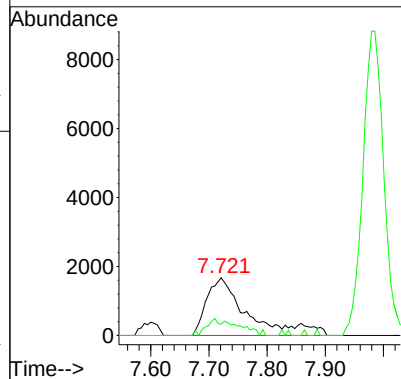
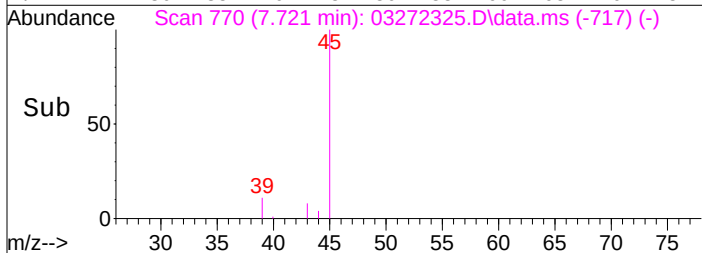
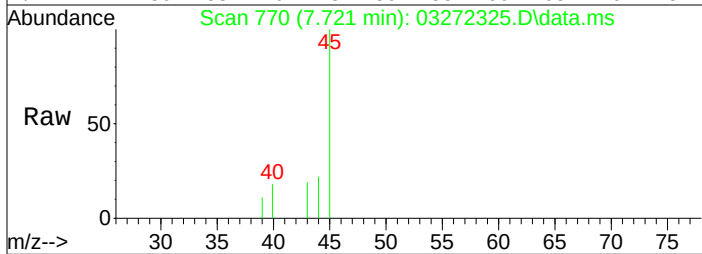
Tgt Ion: 101 Resp: 26025
Ion Ratio Lower Upper
101 100
103 64.4 44.8 84.8





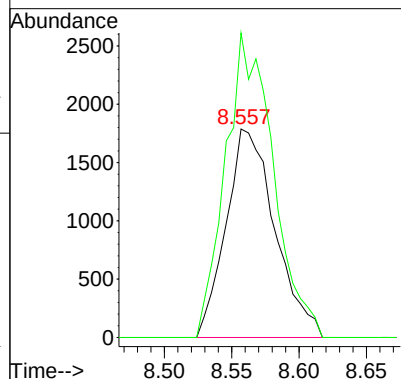
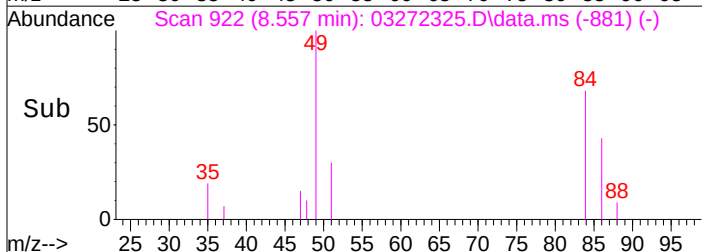
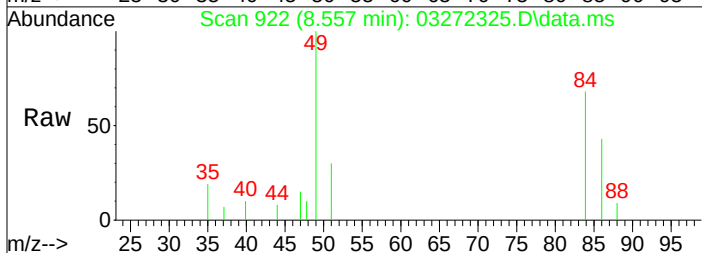
#15
 2-Propanol (Isopropanol)
 Concen: 0.15 ng
 RT: 7.72 min Scan# 770
 Delta R.T. 0.041 min
 Lab File: 03272325.D
 Acq: 27 Mar 2023 19:02

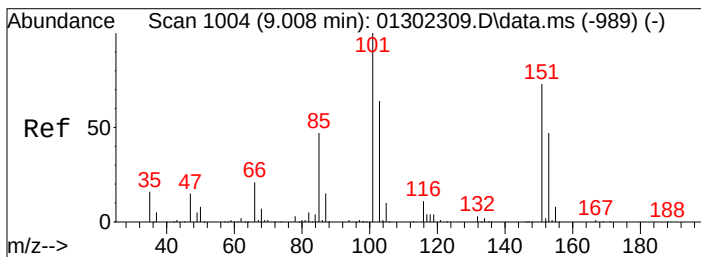
Tgt Ion	45	43	Resp	8196	Lower	Upper
Ion Ratio	100	22.5			0.0	37.9



#19
 Methylene Chloride
 Concen: 0.26 ng
 RT: 8.56 min Scan# 922
 Delta R.T. -0.022 min
 Lab File: 03272325.D
 Acq: 27 Mar 2023 19:02

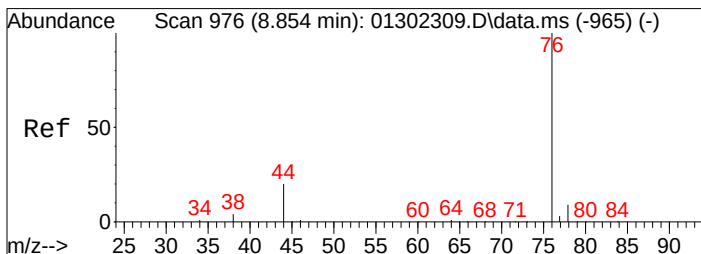
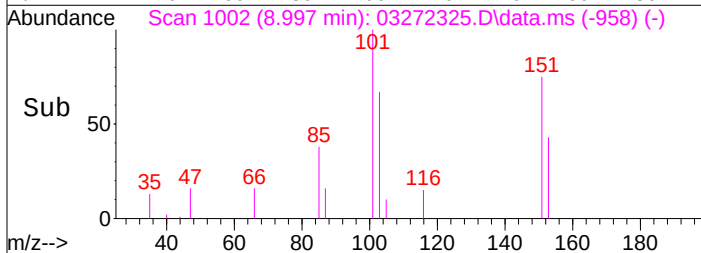
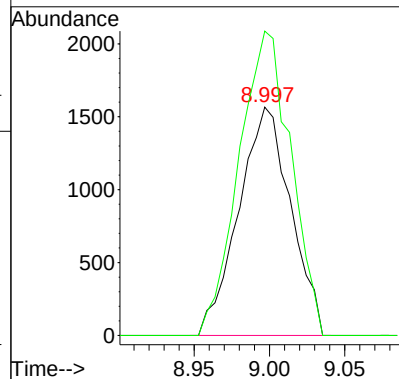
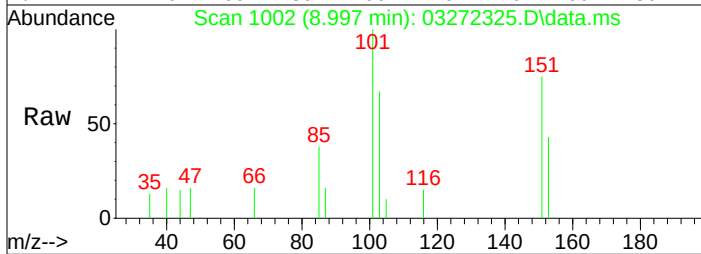
Tgt Ion	84	49	Resp	4509	Lower	Upper
Ion Ratio	100	142.6			135.0	185.0





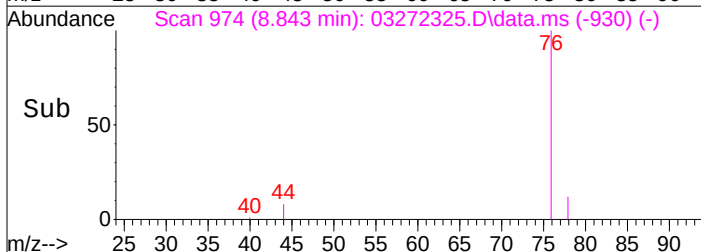
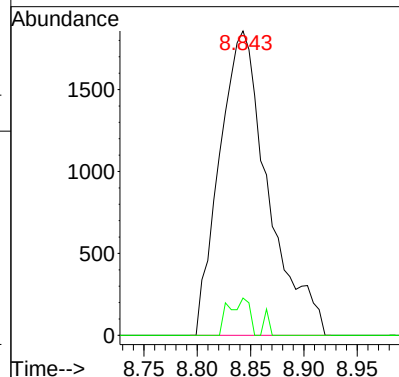
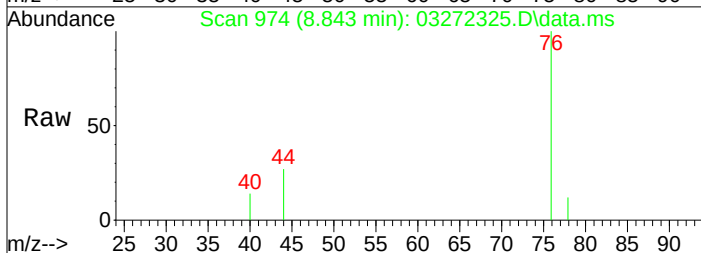
#21
 Trichlorotrifluoroethane
 Concen: 0.25 ng
 RT: 9.00 min Scan# 1002
 Delta R.T. -0.005 min
 Lab File: 03272325.D
 Acq: 27 Mar 2023 19:02

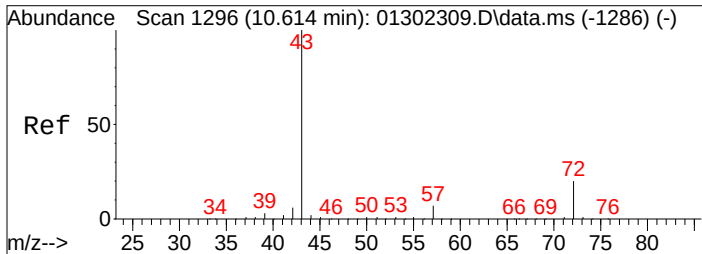
Tgt Ion: 151 Resp: 3768
 Ion Ratio Lower Upper
 151 100
 101 133.2 101.5 141.5



#22
 Carbon Disulfide
 Concen: 0.09 ng
 RT: 8.84 min Scan# 974
 Delta R.T. -0.005 min
 Lab File: 03272325.D
 Acq: 27 Mar 2023 19:02

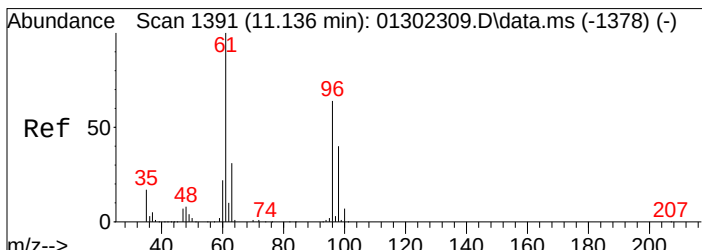
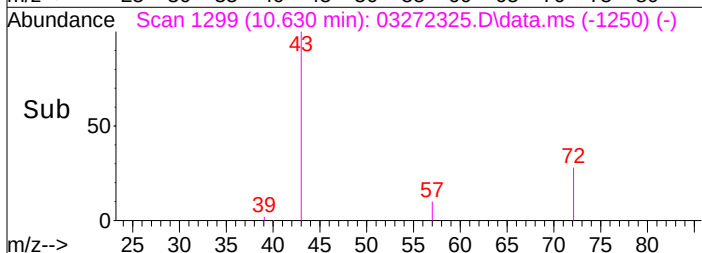
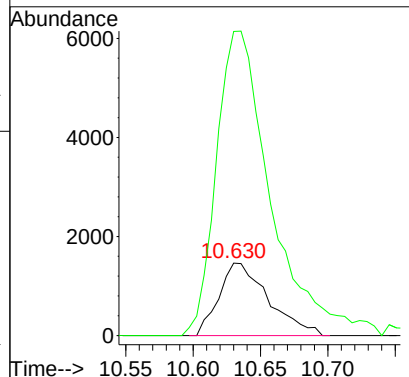
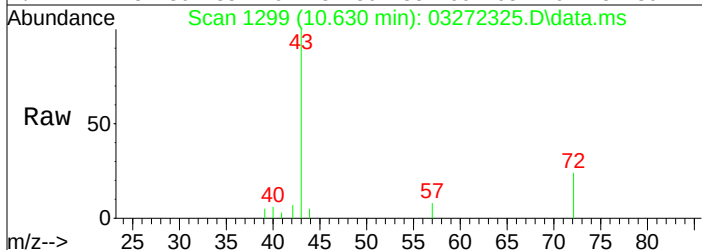
Tgt Ion: 76 Resp: 5878
 Ion Ratio Lower Upper
 76 100
 78 5.3 0.0 29.1





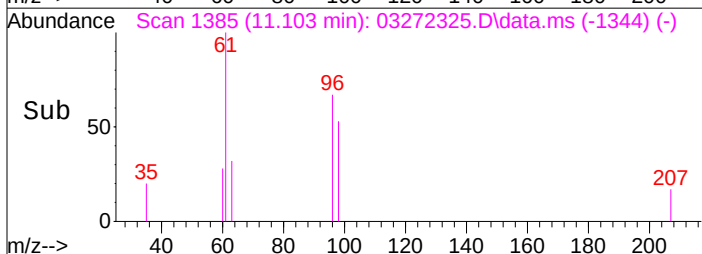
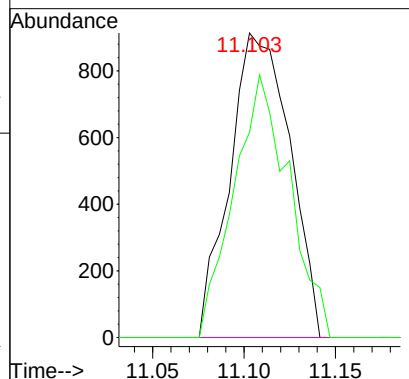
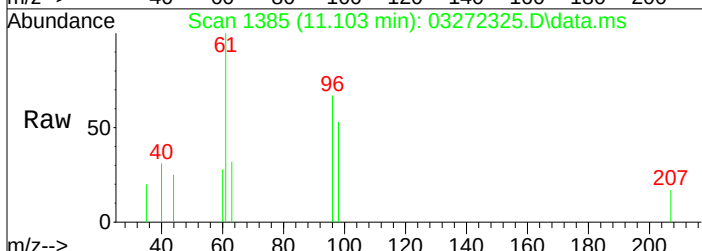
#27
 2-Butanone (MEK)
 Concen: 0.32 ng
 RT: 10.63 min Scan# 1299
 Delta R.T. 0.022 min
 Lab File: 03272325.D
 Acq: 27 Mar 2023 19:02

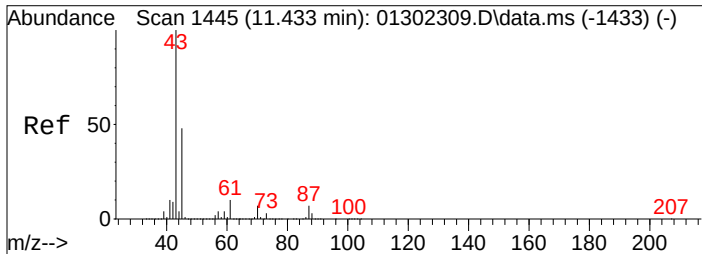
Tgt Ion:	72	Resp:	3736
Ion Ratio	Lower	Upper	
72	100		
43	463.6	449.4	489.4



#28
 cis-1,2-Dichloroethene
 Concen: 0.08 ng
 RT: 11.10 min Scan# 1385
 Delta R.T. -0.022 min
 Lab File: 03272325.D
 Acq: 27 Mar 2023 19:02

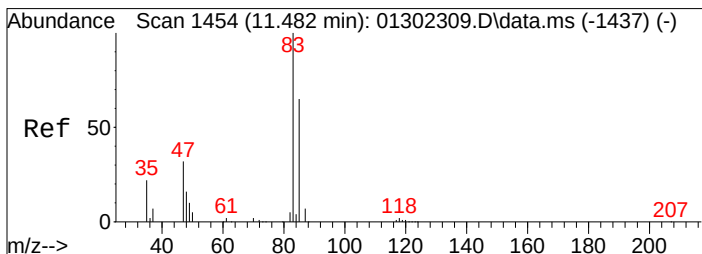
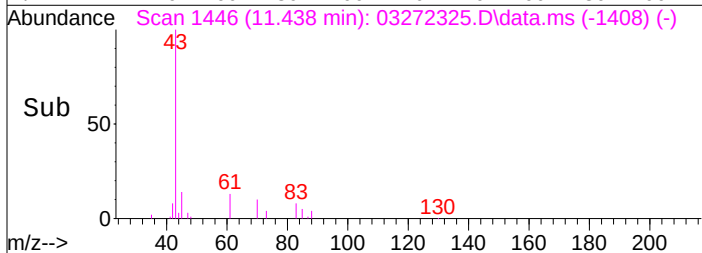
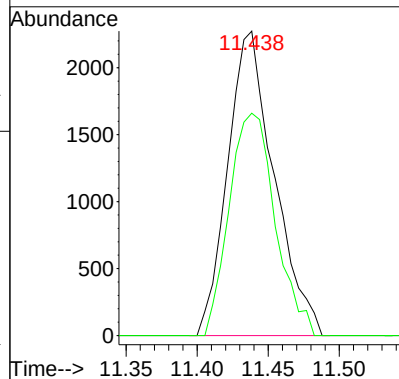
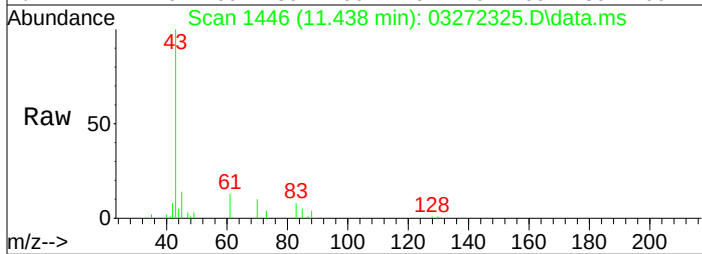
Tgt Ion:	61	Resp:	2086
Ion Ratio	Lower	Upper	
61	100		
96	79.2	49.9	89.9





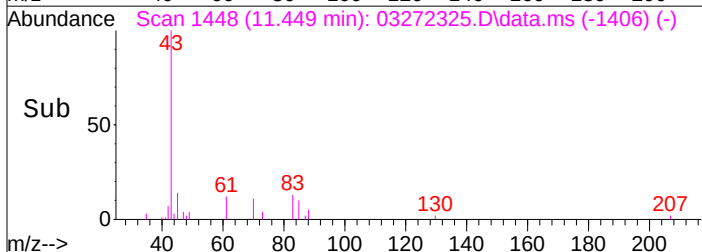
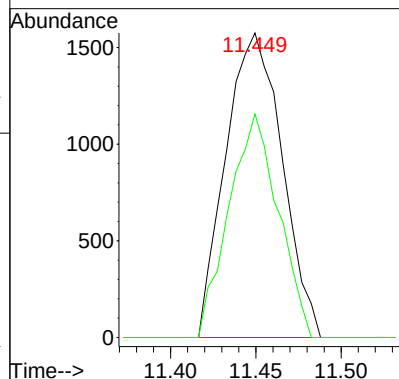
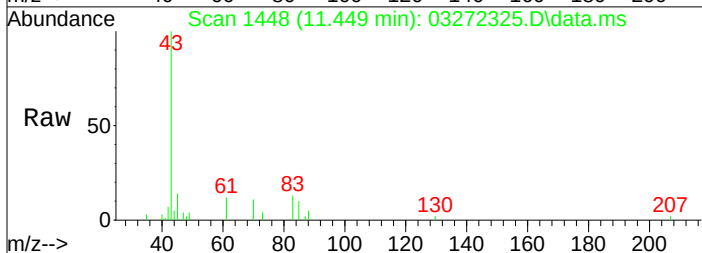
#30
Ethyl Acetate
Concen: 0.68 ng
RT: 11.44 min Scan# 1446
Delta R.T. 0.011 min
Lab File: 03272325.D
Acq: 27 Mar 2023 19:02

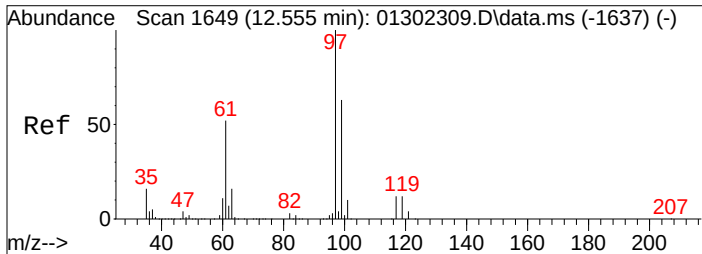
Tgt Ion: 61 Resp: 5160
Ion Ratio Lower Upper
61 100
70 72.2 52.8 92.8



#32
Chloroform
Concen: 0.13 ng
RT: 11.45 min Scan# 1448
Delta R.T. -0.016 min
Lab File: 03272325.D
Acq: 27 Mar 2023 19:02

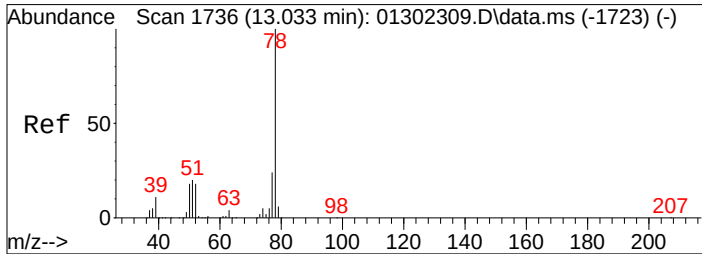
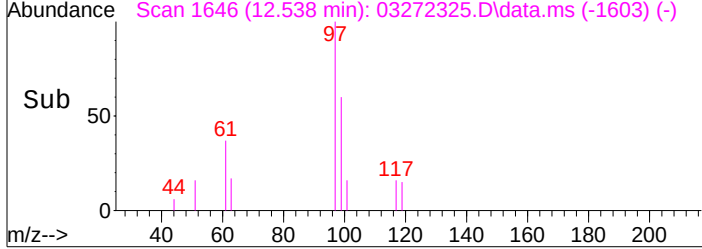
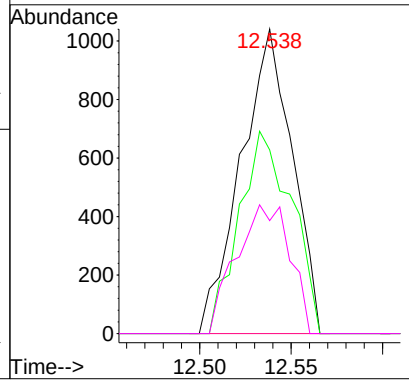
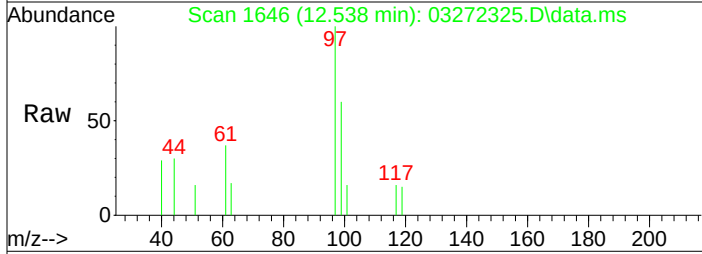
Tgt Ion: 83 Resp: 3618
Ion Ratio Lower Upper
83 100
85 64.2 45.5 85.5





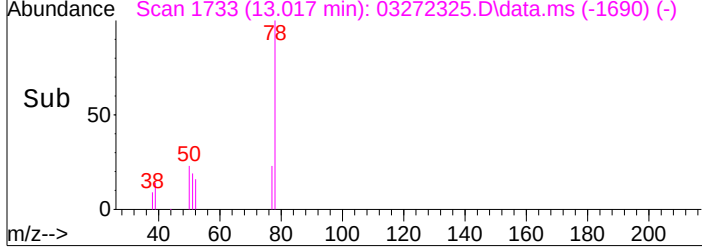
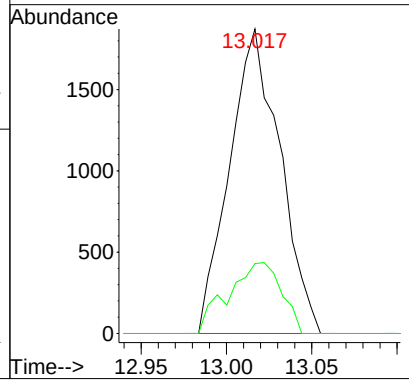
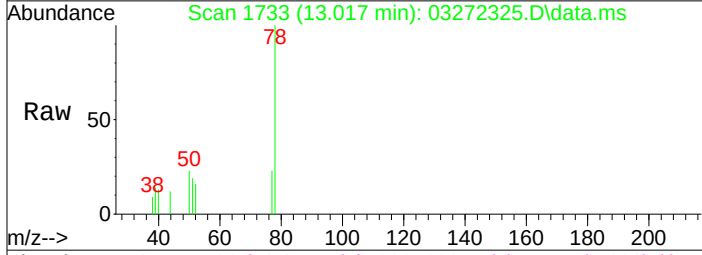
#38
 1,1,1-Trichloroethane
 Concen: 0.08 ng
 RT: 12.54 min Scan# 1646
 Delta R.T. -0.011 min
 Lab File: 03272325.D
 Acq: 27 Mar 2023 19:02

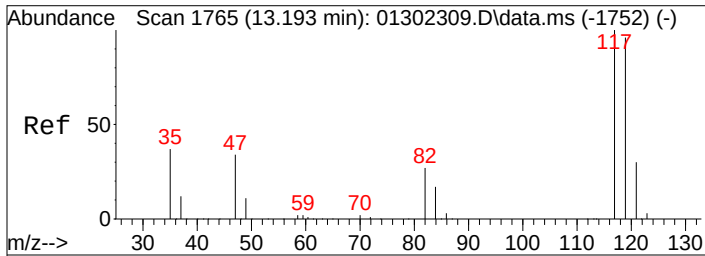
Tgt Ion:	97	Resp:	2032
Ion Ratio		Lower	Upper
97	100		
99	68.3	44.0	84.0
61	44.3	26.8	66.8



#41
 Benzene
 Concen: 0.06 ng
 RT: 13.02 min Scan# 1733
 Delta R.T. -0.011 min
 Lab File: 03272325.D
 Acq: 27 Mar 2023 19:02

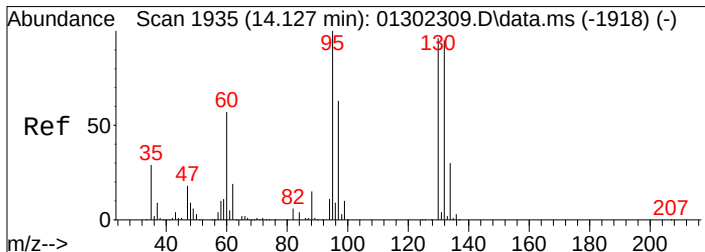
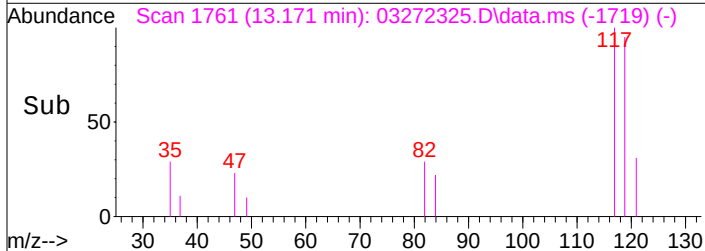
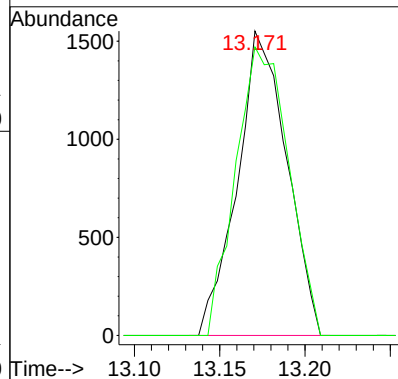
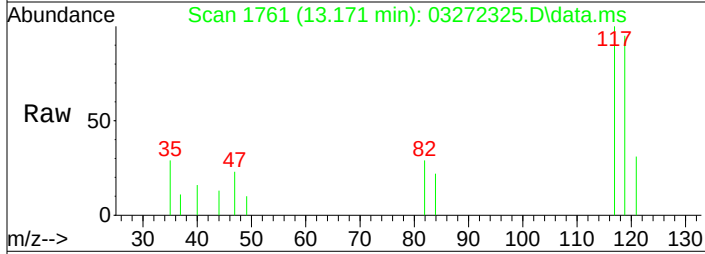
Tgt Ion:	78	Resp:	3842
Ion Ratio		Lower	Upper
78	100		
77	24.7	3.3	43.3





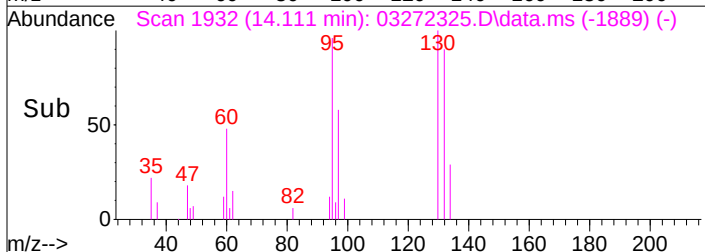
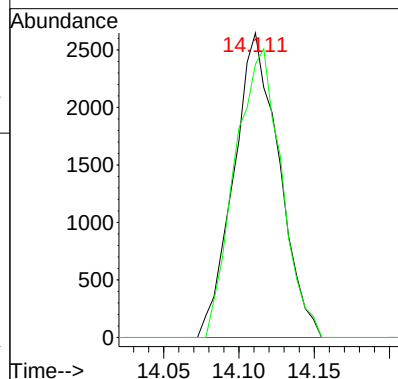
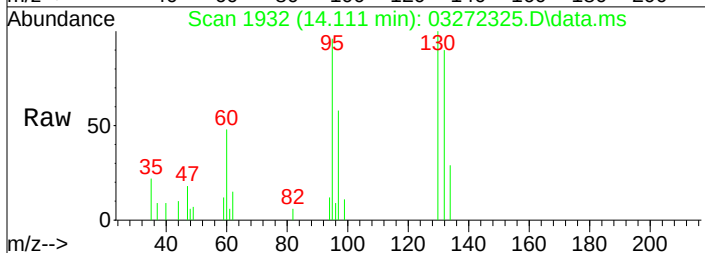
#42
Carbon Tetrachloride
Concen: 0.14 ng
RT: 13.17 min Scan# 1761
Delta R.T. -0.016 min
Lab File: 03272325.D
Acq: 27 Mar 2023 19:02

Tgt Ion:117 Resp: 3124
Ion Ratio Lower Upper
117 100
119 101.5 76.2 116.2



#47
Trichloroethene
Concen: 0.30 ng
RT: 14.11 min Scan# 1932
Delta R.T. -0.011 min
Lab File: 03272325.D
Acq: 27 Mar 2023 19:02

Tgt Ion:130 Resp: 5545
Ion Ratio Lower Upper
130 100
132 97.1 78.7 118.7



Data File : I:\MS16\DATA\2023_03\27\03272325.D
 Acq On : 27 Mar 2023 19:02
 Sample : P2301250-034 (1000mL)
 Misc : S35-01312301

Vial: 3
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 19:41:11 2023

Quant Method : I:\MS16\METHODS\C16122022.M

Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD

QLast Update : Wed Dec 21 05:02:49 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.28	130	216547	12.500	ng	-0.02
16) 1,4-Difluorobenzene (C_2)	13.41	114	979913	12.500	ng	-0.02
19) Chlorobenzene-d5 (C_3)	17.72	54	210249	12.500	ng	0.00

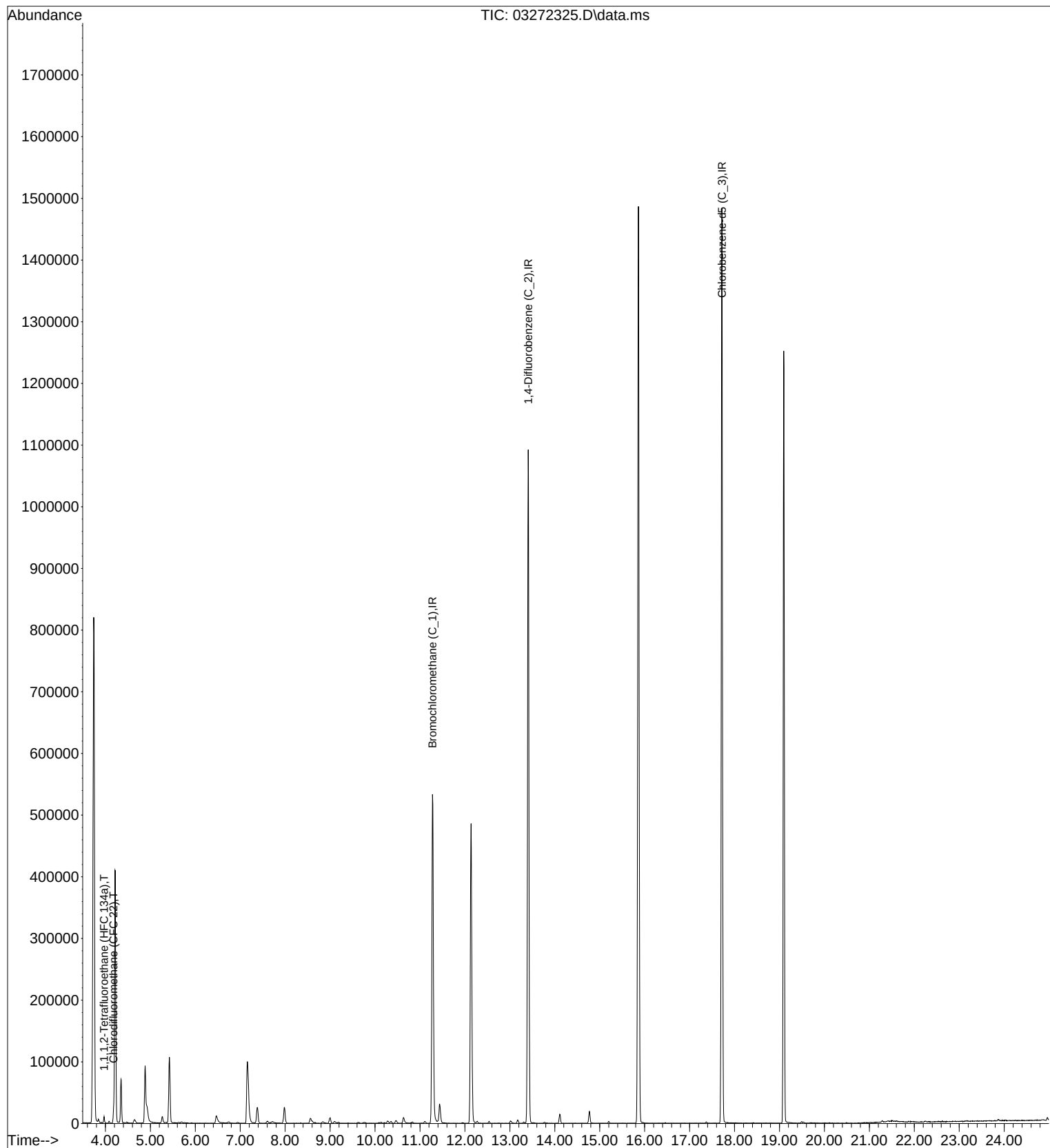
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.86	85	560	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.97	83	5029	0.293	ng	83
4) 1,1-Difluoroethane	4.08	65	1205	N.D.		
5) Chlorodifluoromethane ...	4.18	67	2213	0.413	ng	94
6) 1-Chloro-1,1-Difluoroe...	4.65	65	2806	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	8.60	43	5563	N.D.		
12) 2-Methylpentane	10.36	71	694	N.D.		
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	13.17	84	490	N.D.		
17) 2,3-Dimethylpentane	0.00	56	0	N.D.		
18) Dibromomethane	13.83	174	184	N.D.		
20) Methyl Cyclohexane	15.20	55	1261	N.D.		
21) 1,3-Dichloropropane	0.00	76	0	N.D.	d	
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	0.00	91	0	N.D.		
24) 1,2,3-Trichloropropane	0.00	75	0	N.D.		
25) Bromobenzene	0.00	77	0	N.D.		
26) 2-Chlorotoluene	0.00	91	0	N.D.		
27) 4-Chlorotoluene	0.00	91	0	N.D.		
28) Indane	0.00	117	0	N.D.		
29) Indene	0.00	115	0	N.D.		
30) 1,2,4,5-Tetramethylben...	0.00	119	0	N.D.		
31) 1,2,3,4-Tetramethylben...	0.00	119	0	N.D.		
32) 1,2,3,5-Tetramethylben...	0.00	119	0	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\27\03272325.D
Acq On : 27 Mar 2023 19:02
Sample : P2301250-034 (1000mL)
Misc : S35-01312301

Vial: 3
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 19:41:11 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG4-2

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-035

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: SC01645

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.73 Final Pressure (psig): 3.64

Container Dilution Factor: 1.53

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.7	0.81	0.13	0.55	0.16	0.027	
74-87-3	Chloromethane	0.24	0.32	0.13	0.11	0.16	0.064	J, V
75-01-4	Vinyl Chloride	ND	0.17	0.087	ND	0.066	0.034	
74-83-9	Bromomethane	ND	0.32	0.11	ND	0.083	0.029	
75-00-3	Chloroethane	ND	0.32	0.10	ND	0.12	0.038	
67-64-1	Acetone	7.0	8.1	1.8	2.9	3.4	0.77	J
75-69-4	Trichlorofluoromethane	1.4	0.80	0.12	0.25	0.14	0.022	
75-35-4	1,1-Dichloroethene	ND	0.17	0.11	ND	0.042	0.029	
75-09-2	Methylene Chloride	0.40	0.81	0.23	0.11	0.23	0.066	J
76-13-1	Trichlorotrifluoroethane	0.52	0.83	0.12	0.068	0.11	0.015	J
75-15-0	Carbon Disulfide	0.42	1.6	0.24	0.13	0.53	0.079	J
156-60-5	trans-1,2-Dichloroethene	ND	0.17	0.11	ND	0.042	0.029	
75-34-3	1,1-Dichloroethane	ND	0.17	0.12	ND	0.042	0.029	
1634-04-4	Methyl tert-Butyl Ether	ND	0.83	0.096	ND	0.23	0.027	
78-93-3	2-Butanone (MEK)	1.0	1.6	0.17	0.35	0.54	0.057	J
156-59-2	cis-1,2-Dichloroethene	0.15	0.17	0.11	0.037	0.042	0.029	J
67-66-3	Chloroform	0.23	0.17	0.11	0.046	0.034	0.022	
107-06-2	1,2-Dichloroethane	ND	0.17	0.090	ND	0.042	0.022	
71-55-6	1,1,1-Trichloroethane	0.29	0.17	0.10	0.054	0.031	0.019	
71-43-2	Benzene	3.3	0.17	0.12	1.0	0.053	0.037	
56-23-5	Carbon Tetrachloride	0.45	0.17	0.11	0.072	0.027	0.018	
110-82-7	Cyclohexane	3.2	1.6	0.23	0.93	0.47	0.067	
78-87-5	1,2-Dichloropropane	ND	0.17	0.10	ND	0.036	0.022	
75-27-4	Bromodichloromethane	ND	0.17	0.12	ND	0.025	0.018	
79-01-6	Trichloroethene	0.79	0.17	0.11	0.15	0.031	0.021	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG4-2

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-035

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: SC01645

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.73 Final Pressure (psig): 3.64

Container Dilution Factor: 1.53

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.83	0.13	ND	0.18	0.028	
108-10-1	4-Methyl-2-pentanone	ND	1.7	0.11	ND	0.41	0.027	
10061-02-6	trans-1,3-Dichloropropene	ND	0.78	0.17	ND	0.17	0.037	
79-00-5	1,1,2-Trichloroethane	ND	0.17	0.083	ND	0.031	0.015	
108-88-3	Toluene	1.1	0.81	0.099	0.30	0.22	0.026	
591-78-6	2-Hexanone	0.19	1.7	0.10	0.046	0.41	0.025	J
124-48-1	Dibromochloromethane	ND	0.17	0.11	ND	0.020	0.013	
106-93-4	1,2-Dibromoethane	ND	0.17	0.095	ND	0.022	0.012	
127-18-4	Tetrachloroethene	0.35	0.17	0.11	0.051	0.025	0.016	
108-90-7	Chlorobenzene	ND	0.81	0.11	ND	0.18	0.024	
100-41-4	Ethylbenzene	ND	0.81	0.11	ND	0.19	0.026	
179601-23-1	m,p-Xylenes	0.32	1.7	0.21	0.074	0.39	0.049	J
75-25-2	Bromoform	ND	0.83	0.17	ND	0.080	0.016	
100-42-5	Styrene	ND	0.81	0.13	ND	0.19	0.031	
95-47-6	o-Xylene	0.12	0.81	0.12	0.029	0.19	0.027	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.17	0.11	ND	0.025	0.016	
98-82-8	Cumene	ND	0.83	0.12	ND	0.17	0.024	
541-73-1	1,3-Dichlorobenzene	ND	0.81	0.12	ND	0.13	0.020	
106-46-7	1,4-Dichlorobenzene	ND	0.81	0.13	ND	0.13	0.021	
95-50-1	1,2-Dichlorobenzene	ND	0.83	0.12	ND	0.14	0.020	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.7	0.15	ND	0.17	0.016	
120-82-1	1,2,4-Trichlorobenzene	ND	1.7	0.20	ND	0.23	0.027	
79-20-9	Methyl Acetate	ND	0.77	0.37	ND	0.25	0.12	X
108-87-2	Methylcyclohexane	0.94	0.77	0.40	0.24	0.19	0.099	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS16\DATA\2023_03\27\03272324.D
 Acq On : 27 Mar 2023 18:28
 Sample : P2301250-035 (1000mL)
 Misc : S35-01312301

Vial: 4
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 19:36:52 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:TO15B.M

3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	221826	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	1019430	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.72	54	214197	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.13	65	383257	12.992	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	103.92%
57) Toluene-d8 (SS2)	15.86	98	1144935	12.209	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	97.68%
73) Bromofluorobenzene (SS3)	19.10	174	355306	12.148	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	97.20%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	4.34	85	59430	1.792	ng	100
4) Chloromethane	4.63	50	4815	0.155	ng	92
5) 1,2-Dichloro-1,1,2,2-t...	4.89	135	1596	0.086	ng	93
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.32	54	1103	N.D.		
8) Bromomethane	5.76	94	226	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.46	45	31567	1.479	ng	95
11) Acetonitrile	6.74	41	4075	0.076	ng	96
12) Acrolein	6.93	56	2343	0.155	ng	100
13) Acetone	7.15	58	74338	4.553	ng	# 1
14) Trichlorofluoromethane	7.38	101	27563	0.901	ng	97
15) 2-Propanol (Isopropanol)	7.67	45	12451	0.219	ng	95
16) Acrylonitrile	0.00	53	0	N.D.	d	
17) 1,1-Dichloroethene	8.34	96	249	N.D.		
18) 2-Methyl-2-Propanol (t...	8.60	59	1126	N.D.		
19) Methylene Chloride	8.56	84	4716	0.261	ng	90
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	8.99	151	5204	0.342	ng	92
22) Carbon Disulfide	8.83	76	17631	0.274	ng	100
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.	d	
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	10.62	72	7988	0.675	ng	99
28) cis-1,2-Dichloroethene	11.10	61	2577	0.095	ng	93
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	11.42	61	25063	3.238	ng	95
31) n-Hexane	11.40	57	183941	4.748	ng	99
32) Chloroform	11.44	83	4393	0.148	ng	96
34) Tetrahydrofuran (THF)	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	N.D.	d	
38) 1,1,1-Trichloroethane	12.53	97	5278	0.191	ng	96
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	12.57	56	172	No Calib	#	
41) Benzene	13.02	78	155579	2.167	ng	99
42) Carbon Tetrachloride	13.17	117	6856	0.294	ng	98
43) Cyclohexane	13.31	84	63730	2.102	ng	92
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	13.87	63	106	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.	d	
47) Trichloroethene	14.11	130	10046	0.515	ng	100
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.	d	
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS16\DATA\2023_03\27\03272324.D
 Acq On : 27 Mar 2023 18:28
 Sample : P2301250-035 (1000mL)
 Misc : S35-01312301

Vial: 4
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 19:36:52 2023
 Quant Method : I:\MS16\METHODS\R16122022.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Wed Dec 21 03:06:38 2022
 Response via : Initial Calibration
 DataAcq Meth:T015B.M

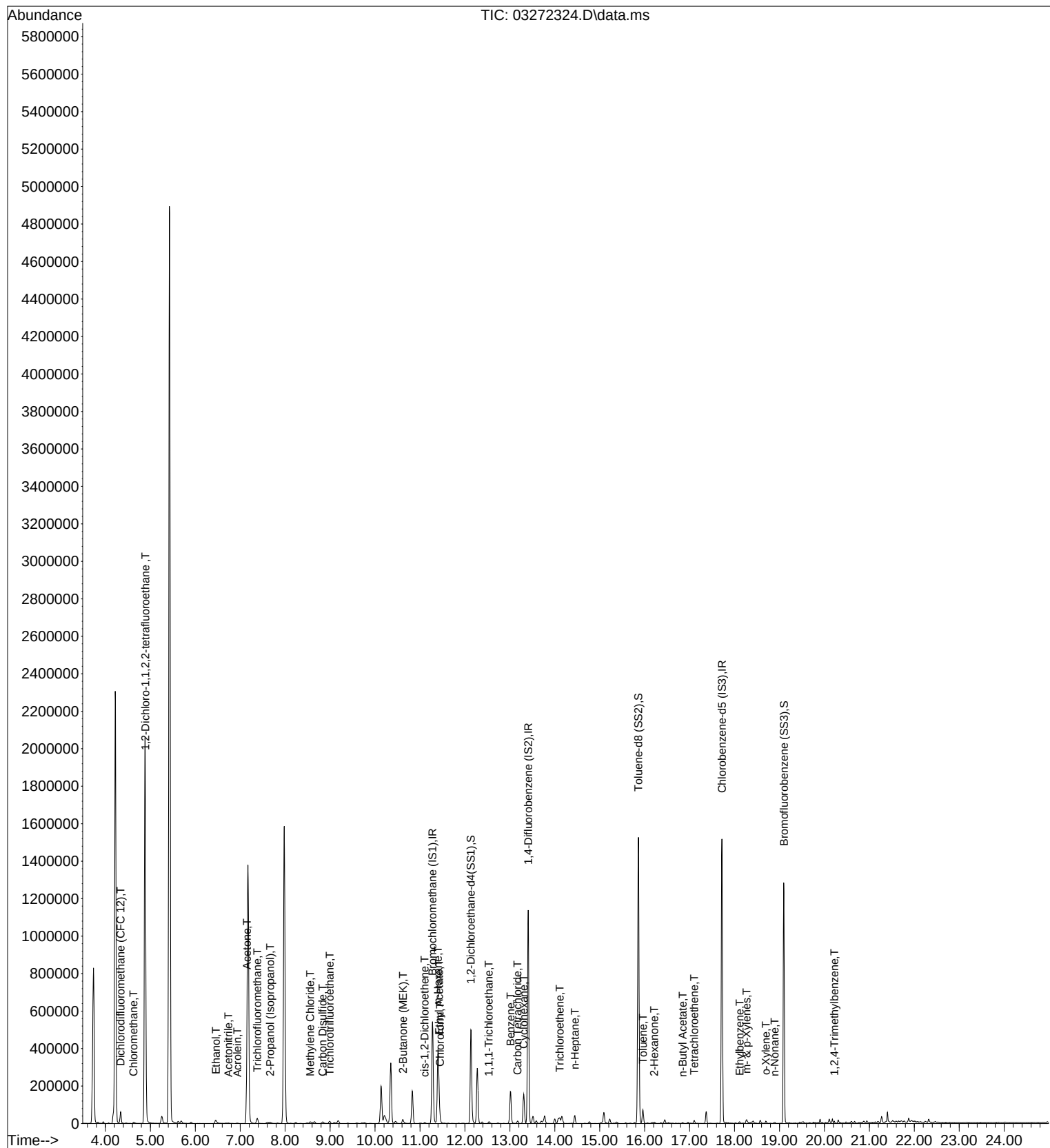
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.45	71	10786	0.512	ng	91
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	15.03	58	768	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.96	91	59685	0.727	ng	98
59) 2-Hexanone	16.21	43	5387	0.124	ng	80
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.84	43	3736	0.075	ng	96
63) n-Octane	16.96	57	926	N.D.		
64) Tetrachloroethene	17.10	166	4738	0.227	ng	98
65) Chlorobenzene	17.75	112	135	N.D.		
66) Ethylbenzene	18.11	91	6767	0.073	ng	98
67) m- & p-Xylenes	18.27	91	15426	0.210	ng	100
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.60	104	367	N.D.		
70) o-Xylene	18.70	91	5875	0.081	ng	99
71) n-Nonane	18.89	43	3277	0.064	ng	# 80
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	19.22	105	794	N.D.		
75) alpha-Pinene	19.57	93	191	N.D.		
76) n-Propylbenzene	19.66	91	1667	N.D.		
77) 3-Ethyltoluene	20.22	105	4852	No Calib	#	
78) 4-Ethyltoluene	19.79	105	1404	N.D.		
79) 1,3,5-Trimethylbenzene	19.86	105	1462	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.22	105	4852	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.22	105	4852	0.066	ng	79
83) n-Decane	20.10	58	261	No Calib	#	
84) Benzyl Chloride	20.42	91	122	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
86) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
87) sec-Butylbenzene	20.45	105	339	N.D.		
88) 4-Isopropyltoluene (p-...	20.59	119	1426	N.D.		
89) 1,2,3-Trimethylbenzene	20.22	105	4852	No Calib	#	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	20.73	68	101	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	21.40	58	691	No Calib	#	
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	22.33	128	1989	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	18.20	55	315	No Calib	#	
99) tert-Butylbenzene	20.18	119	508	N.D.		
100) n-Butylbenzene	20.95	91	2285	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\27\03272324.D
Acq On : 27 Mar 2023 18:28
Sample : P2301250-035 (1000mL)
Misc : S35-01312301

Vial: 4
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 19:36:52 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



Data File : I:\MS16\DATA\2023_03\27\03272324.D
 Acq On : 27 Mar 2023 18:28
 Sample : P2301250-035 (1000mL)
 Misc : S35-01312301

Vial: 4
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 19:36:52 2023

3/27/23

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	221826	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	1019430	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.72	54	214197	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.13	65	383257	12.992	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	103.92%
57) Toluene-d8 (SS2)	15.86	98	1144935	12.209	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	97.68%
73) Bromofluorobenzene (SS3)	19.10	174	355306	12.148	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	97.20%

Target Compounds

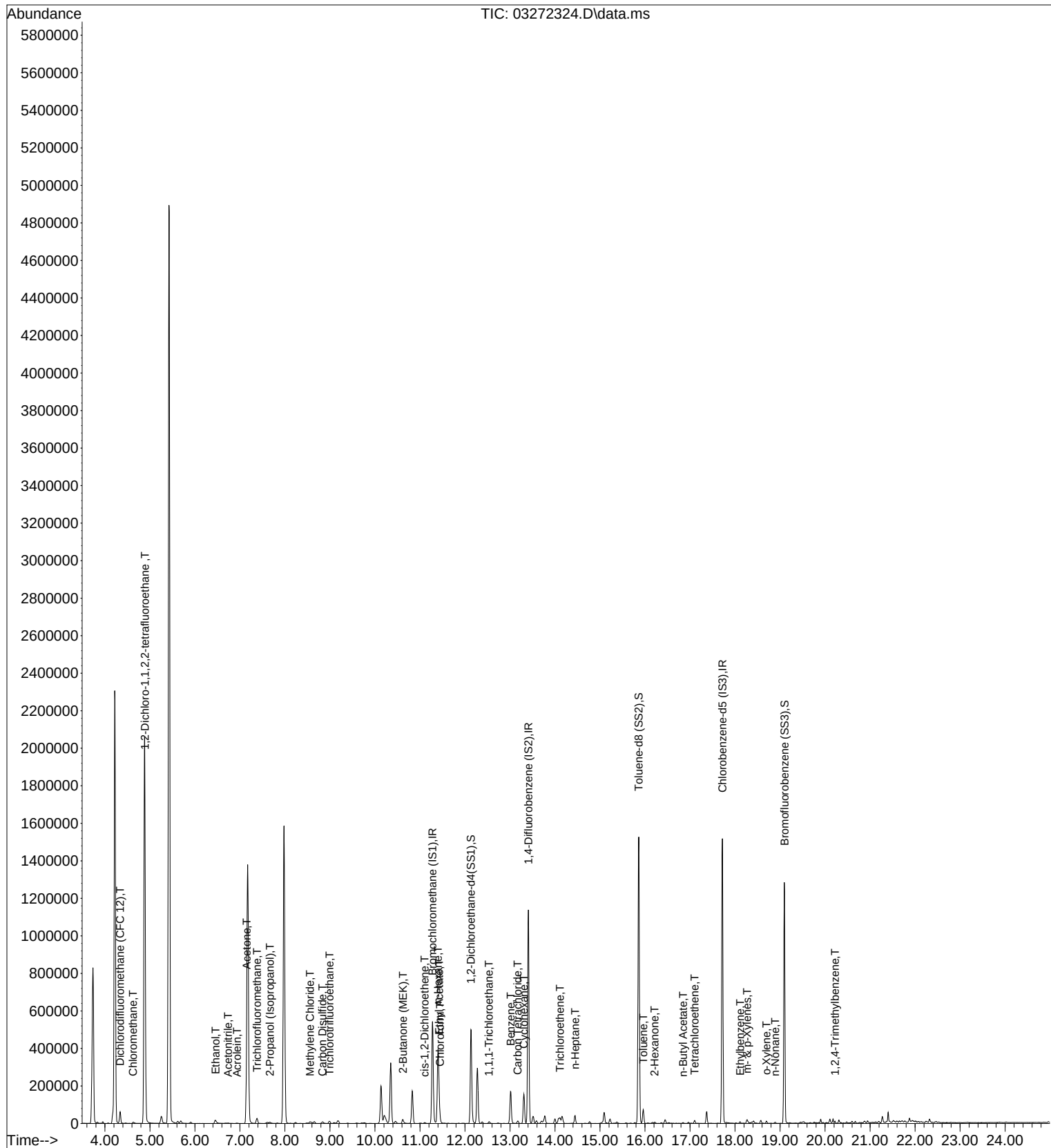
						Qvalue
3) Dichlorodifluoromethan...	4.34	85	59430	1.792	ng	100
4) Chloromethane	4.63	50	4815	0.155	ng	92
5) 1,2-Dichloro-1,1,2,2-t...	4.89	135	1596	0.086	ng	93
10) Ethanol	6.46	45	31567	1.479	ng	95
11) Acetonitrile	6.74	41	4075	0.076	ng	96
12) Acrolein	6.93	56	2343	0.155	ng	100
13) Acetone	7.15	58	74338	4.553	ng	# 1
14) Trichlorofluoromethane	7.38	101	27563	0.901	ng	97
15) 2-Propanol (Isopropanol)	7.67	45	12451	0.219	ng	95
19) Methylene Chloride	8.56	84	4716	0.261	ng	90
21) Trichlorotrifluoroethane	8.99	151	5204	0.342	ng	92
22) Carbon Disulfide	8.83	76	17631	0.274	ng	100
27) 2-Butanone (MEK)	10.62	72	7988	0.675	ng	99
28) cis-1,2-Dichloroethene	11.10	61	2577	0.095	ng	93
30) Ethyl Acetate	11.42	61	25063	3.238	ng	95
31) n-Hexane	11.40	57	183941	4.748	ng	99
32) Chloroform	11.44	83	4393	0.148	ng	96
38) 1,1,1-Trichloroethane	12.53	97	5278	0.191	ng	96
41) Benzene	13.02	78	155579	2.167	ng	99
42) Carbon Tetrachloride	13.17	117	6856	0.294	ng	98
43) Cyclohexane	13.31	84	63730	2.102	ng	92
47) Trichloroethene	14.11	130	10046	0.515	ng	100
51) n-Heptane	14.45	71	10786	0.512	ng	91
58) Toluene	15.96	91	59685	0.727	ng	98
59) 2-Hexanone	16.21	43	5387	0.124	ng	80
62) n-Butyl Acetate	16.84	43	3736	0.075	ng	96
64) Tetrachloroethene	17.10	166	4738	0.227	ng	98
66) Ethylbenzene	18.11	91	6767	0.073	ng	98
67) m- & p-Xylenes	18.27	91	15426	0.210	ng	100
70) o-Xylene	18.70	91	5875	0.081	ng	99
71) n-Nonane	18.89	43	3277	0.064	ng	# 80
82) 1,2,4-Trimethylbenzene	20.22	105	4852	0.066	ng	79

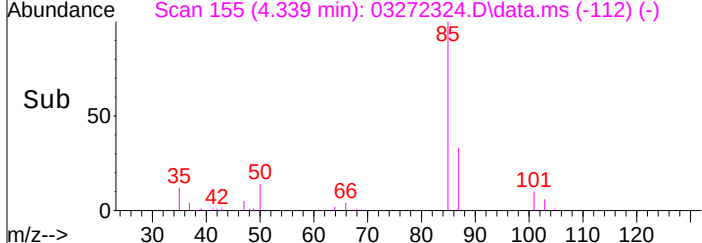
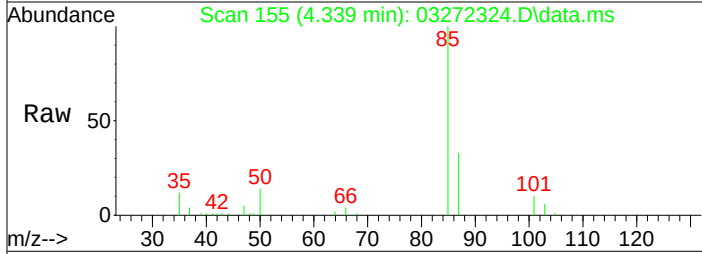
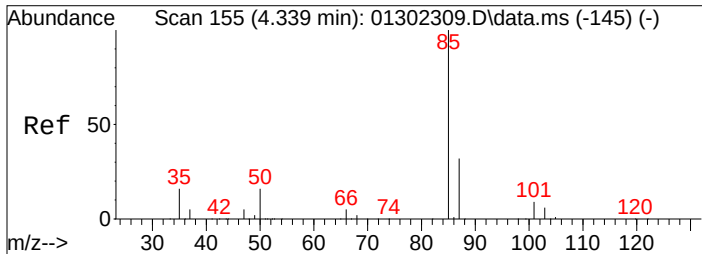
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS16\DATA\2023_03\27\03272324.D
Acq On : 27 Mar 2023 18:28
Sample : P2301250-035 (1000mL)
Misc : S35-01312301

Vial: 4
Operator: WA
Inst : GCMS-16

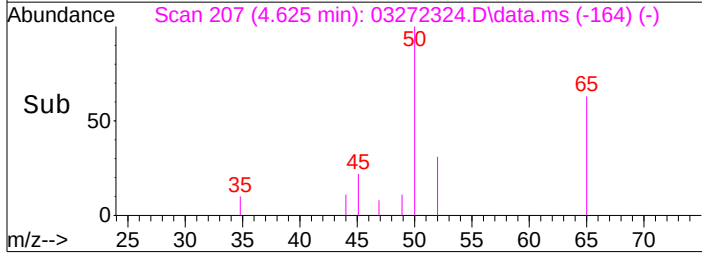
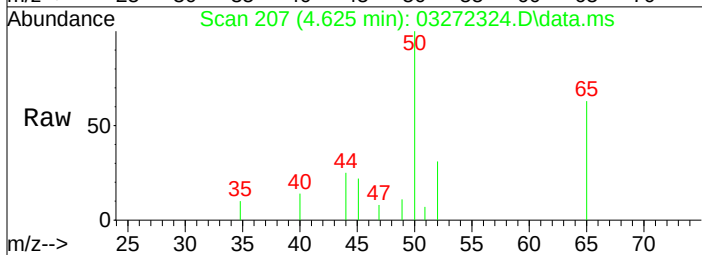
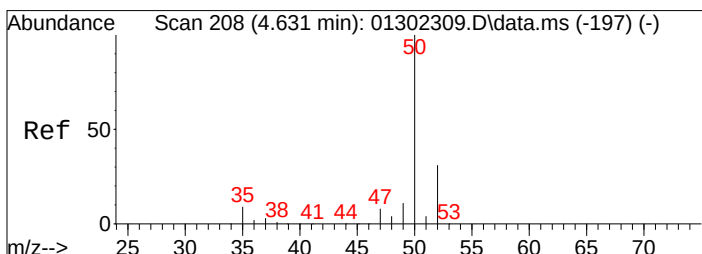
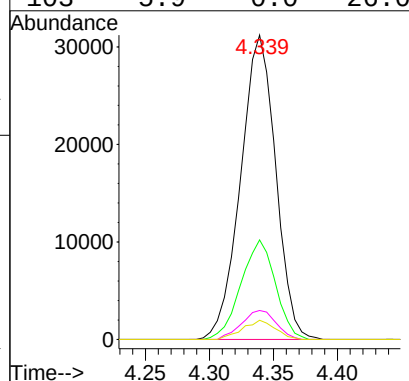
Quant Time: Mar 27 19:36:52 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M





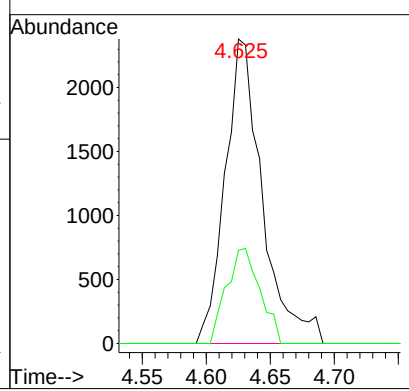
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.79 ng
 RT: 4.34 min Scan# 155
 Delta R.T. -0.011 min
 Lab File: 03272324.D
 Acq: 27 Mar 2023 18:28

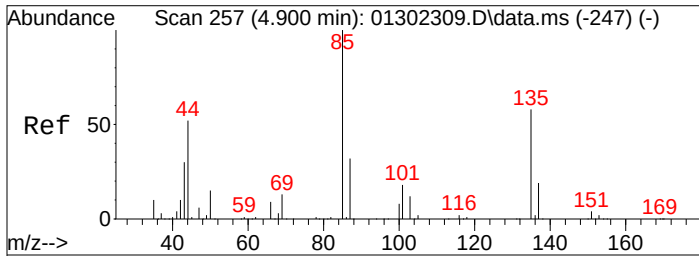
Tgt Ion:	85	Resp:	59430
Ion Ratio		Lower	Upper
85	100		
87	32.2	12.1	52.1
101	9.4	0.0	29.3
103	5.9	0.0	26.0



#4
 Chloromethane
 Concen: 0.16 ng
 RT: 4.63 min Scan# 207
 Delta R.T. -0.011 min
 Lab File: 03272324.D
 Acq: 27 Mar 2023 18:28

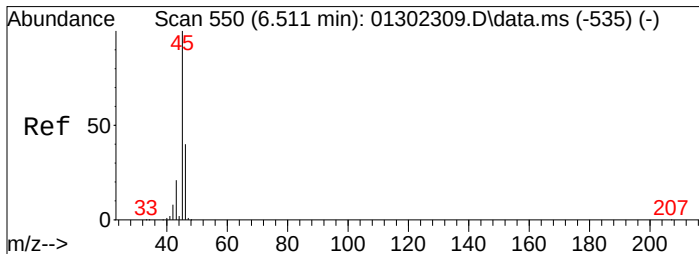
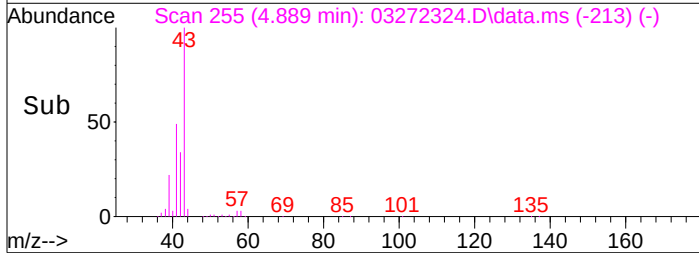
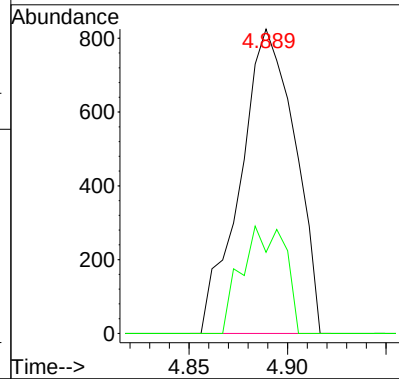
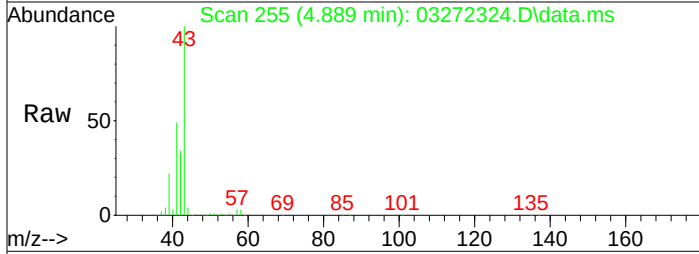
Tgt Ion:	50	Resp:	4815
Ion Ratio		Lower	Upper
50	100		
52	28.0	12.2	52.2





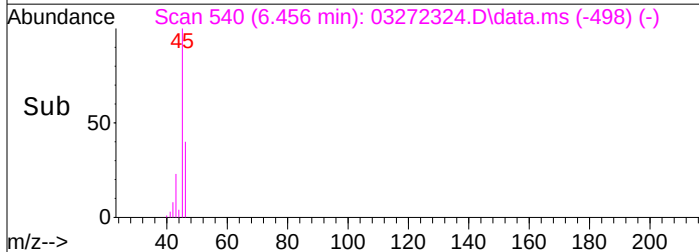
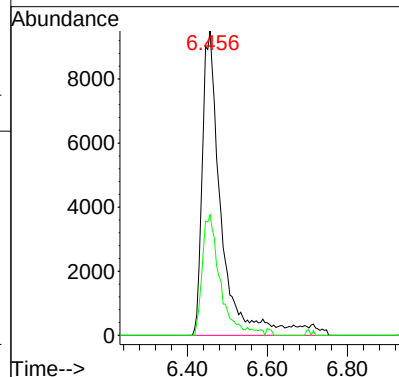
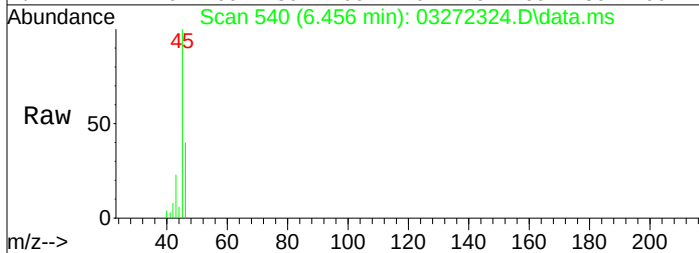
#5
1,2-Dichloro-1,1,2,2-tetrafluoroethane
Concen: 0.09 ng
RT: 4.89 min Scan# 255
Delta R.T. -0.016 min
Lab File: 03272324.D
Acq: 27 Mar 2023 18:28

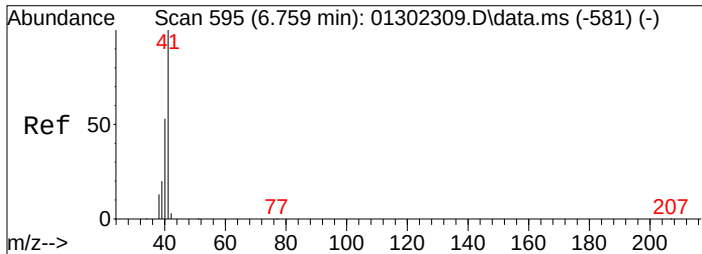
Tgt Ion:135 Resp: 1596
Ion Ratio Lower Upper
135 100
137 27.9 12.0 52.0



#10
Ethanol
Concen: 1.48 ng
RT: 6.46 min Scan# 540
Delta R.T. -0.022 min
Lab File: 03272324.D
Acq: 27 Mar 2023 18:28

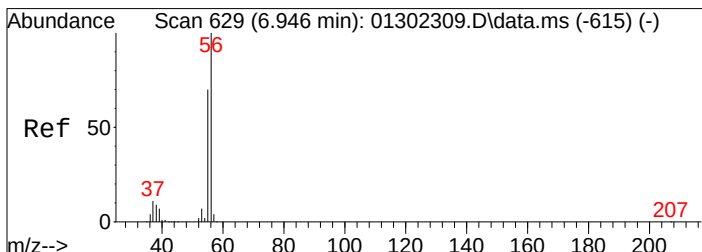
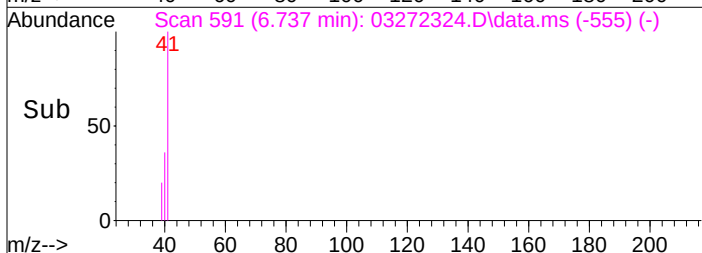
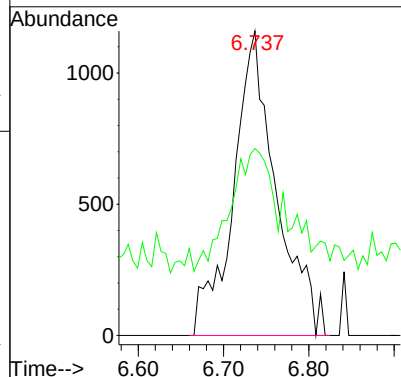
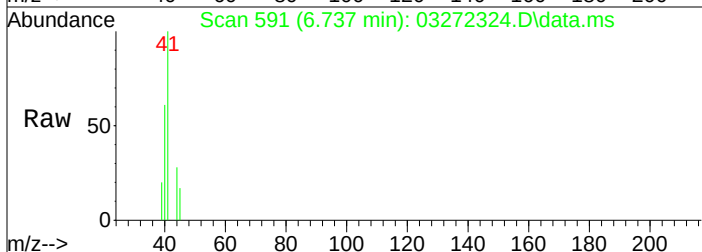
Tgt Ion: 45 Resp: 31567
Ion Ratio Lower Upper
45 100
46 37.1 20.5 60.5





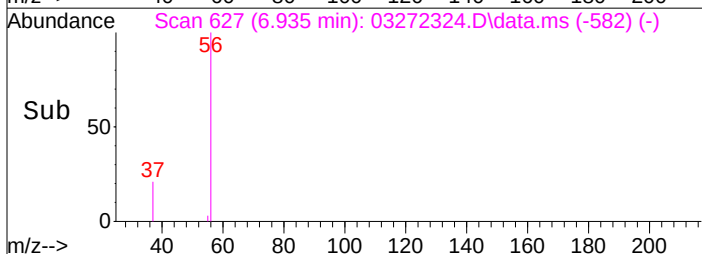
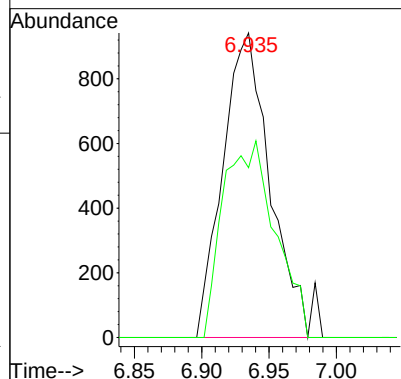
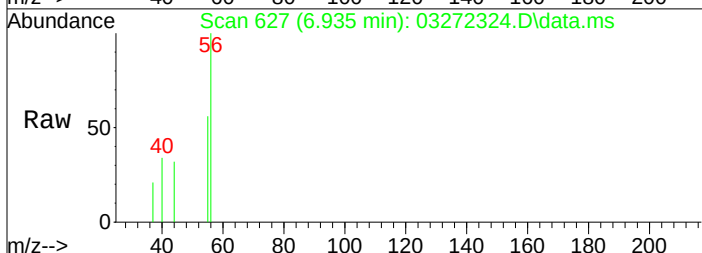
#11
Acetonitrile
Concen: 0.08 ng
RT: 6.74 min Scan# 591
Delta R.T. -0.000 min
Lab File: 03272324.D
Acq: 27 Mar 2023 18:28

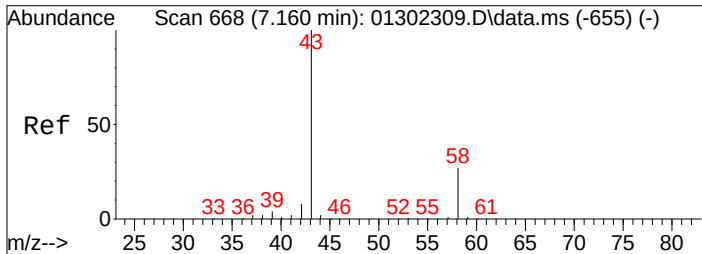
Tgt Ion: 41 Resp: 4075
Ion Ratio Lower Upper
41 100
40 49.4 32.4 72.4



#12
Acrolein
Concen: 0.15 ng
RT: 6.93 min Scan# 627
Delta R.T. -0.000 min
Lab File: 03272324.D
Acq: 27 Mar 2023 18:28

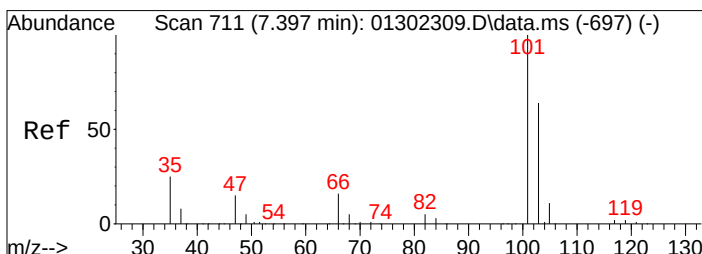
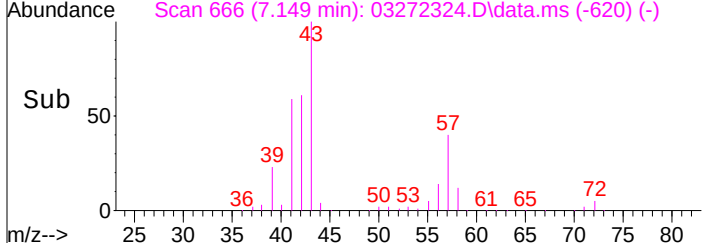
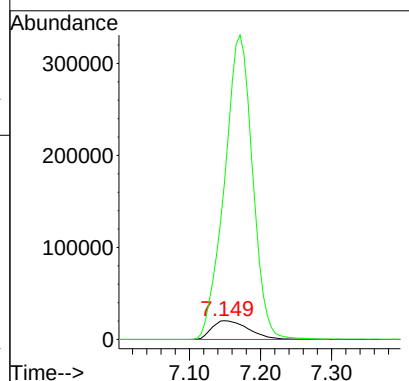
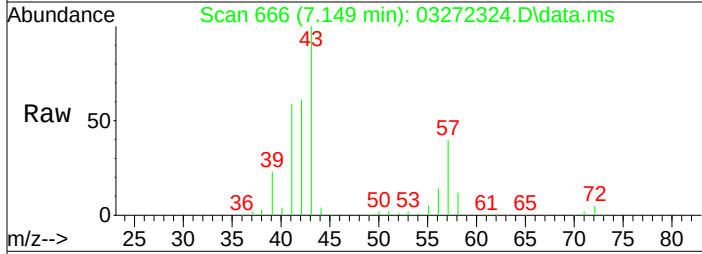
Tgt Ion: 56 Resp: 2343
Ion Ratio Lower Upper
56 100
55 70.0 49.9 89.9





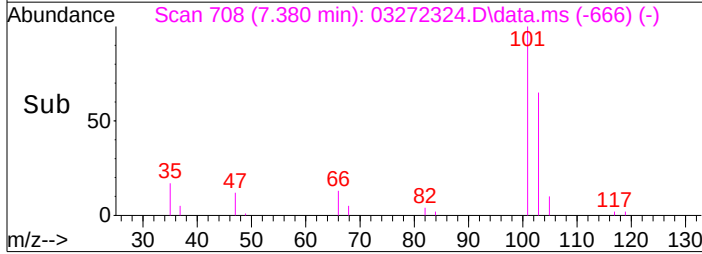
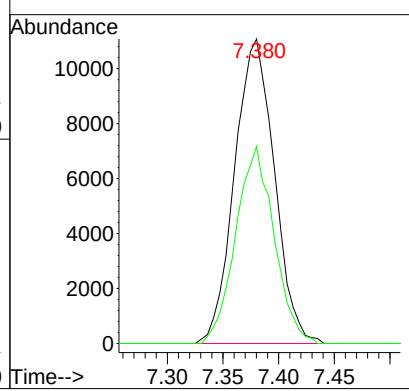
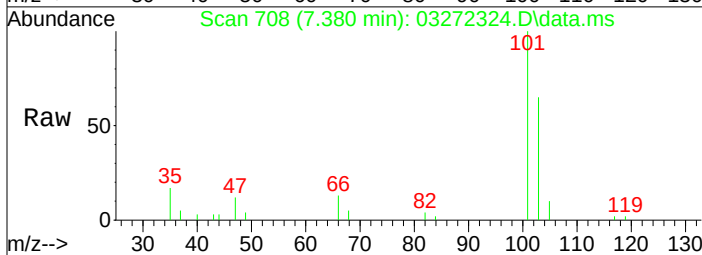
#13
 Acetone
 Concen: 4.55 ng
 RT: 7.15 min Scan# 666
 Delta R.T. 0.005 min
 Lab File: 03272324.D
 Acq: 27 Mar 2023 18:28

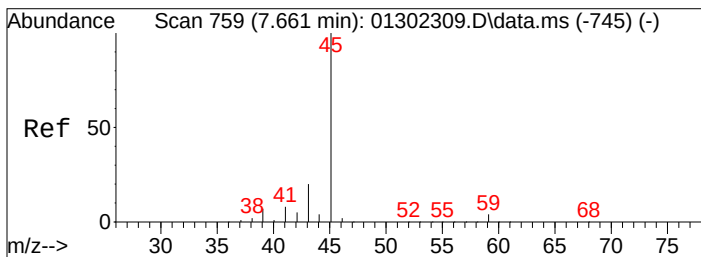
Tgt Ion:	58	Resp:	74338
Ion Ratio	Lower	Upper	
58	100		
43	1231.3	298.5	358.5#



#14
 Trichlorofluoromethane
 Concen: 0.90 ng
 RT: 7.38 min Scan# 708
 Delta R.T. -0.016 min
 Lab File: 03272324.D
 Acq: 27 Mar 2023 18:28

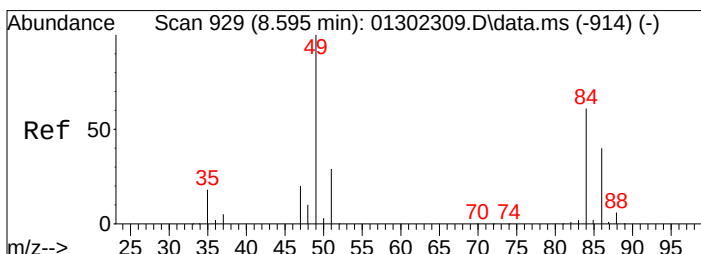
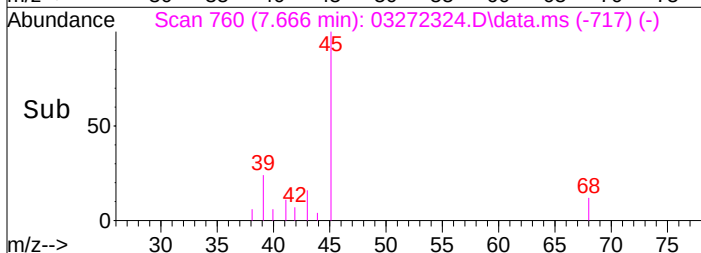
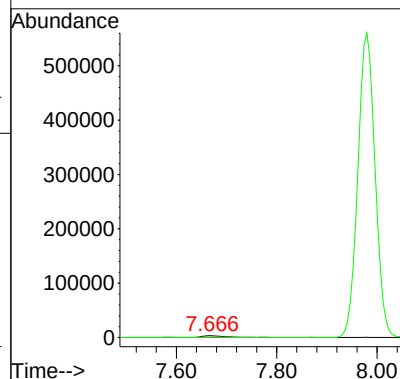
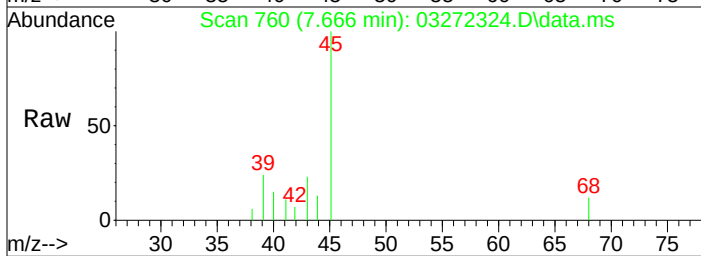
Tgt Ion:	101	Resp:	27563
Ion Ratio	Lower	Upper	
101	100		
103	62.3	44.8	84.8





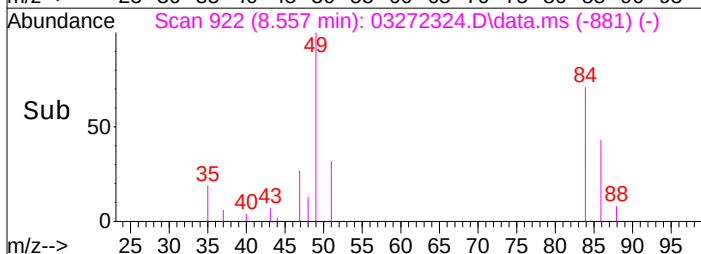
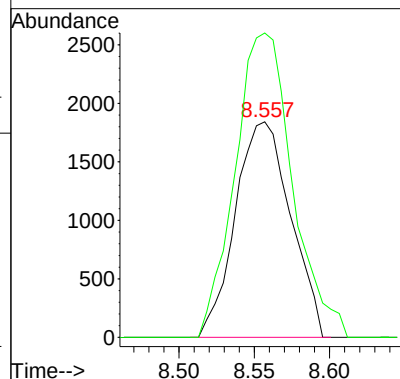
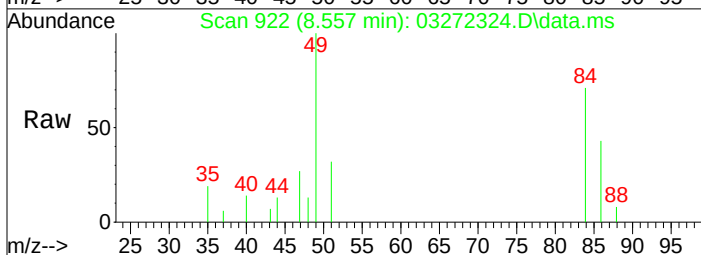
#15
2-Propanol (Isopropanol)
Concen: 0.22 ng
RT: 7.67 min Scan# 760
Delta R.T. -0.014 min
Lab File: 03272324.D
Acq: 27 Mar 2023 18:28

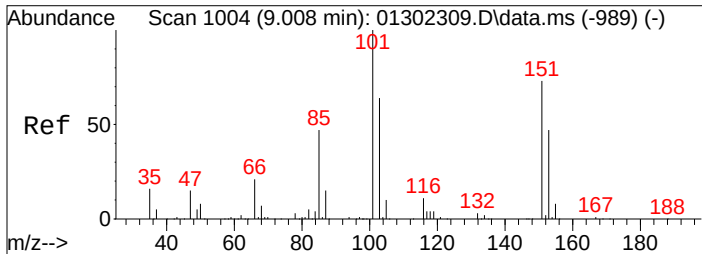
Tgt Ion: 45 Resp: 12451
Ion Ratio Lower Upper
45 100
43 20.2 0.0 37.9



#19
Methylene Chloride
Concen: 0.26 ng
RT: 8.56 min Scan# 922
Delta R.T. -0.022 min
Lab File: 03272324.D
Acq: 27 Mar 2023 18:28

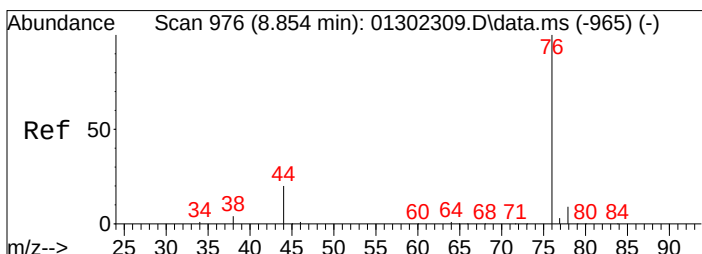
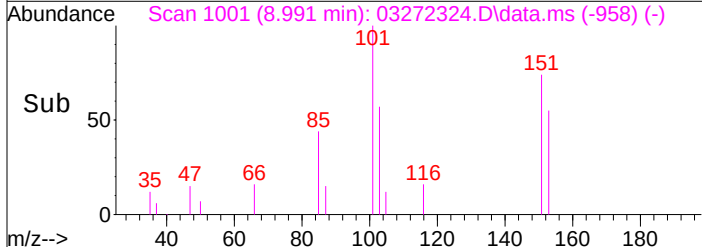
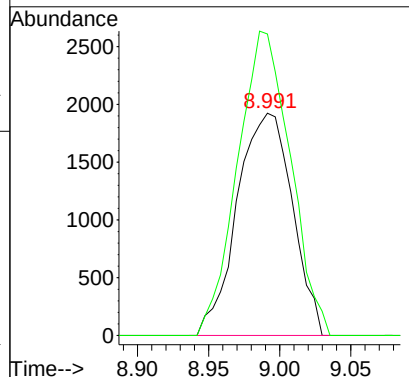
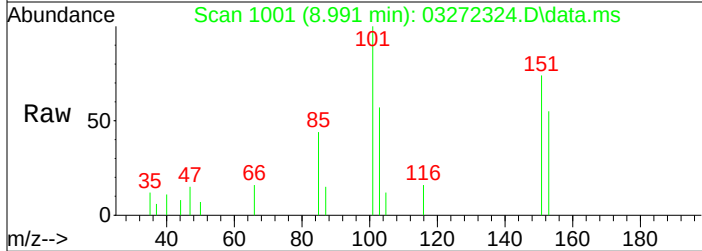
Tgt Ion: 84 Resp: 4716
Ion Ratio Lower Upper
84 100
49 146.6 135.0 185.0





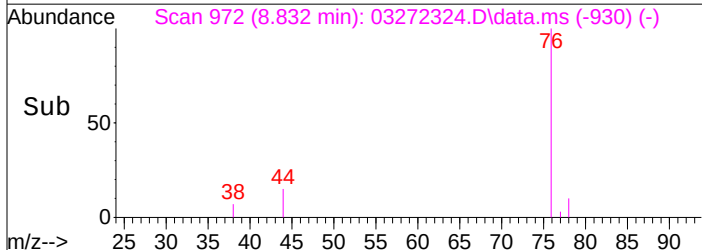
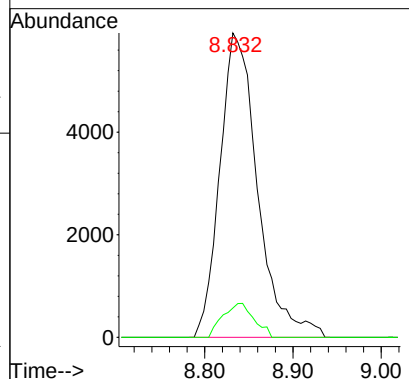
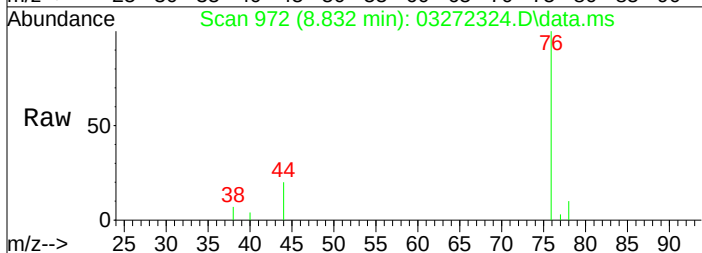
#21
 Trichlorotrifluoroethane
 Concen: 0.34 ng
 RT: 8.99 min Scan# 1001
 Delta R.T. -0.011 min
 Lab File: 03272324.D
 Acq: 27 Mar 2023 18:28

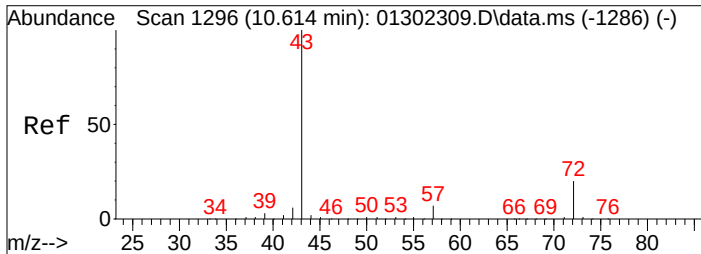
Tgt Ion: 151 Resp: 5204
 Ion Ratio Lower Upper
 151 100
 101 131.0 101.5 141.5



#22
 Carbon Disulfide
 Concen: 0.27 ng
 RT: 8.83 min Scan# 972
 Delta R.T. -0.016 min
 Lab File: 03272324.D
 Acq: 27 Mar 2023 18:28

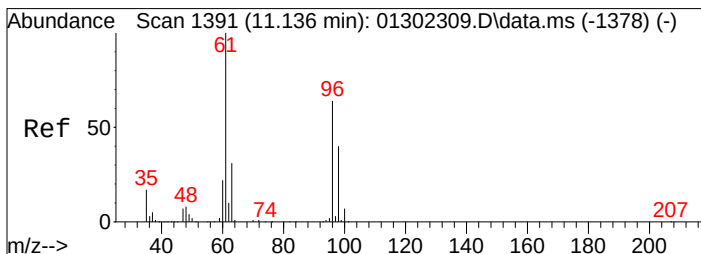
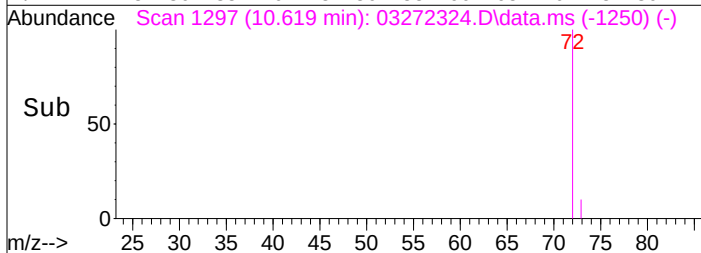
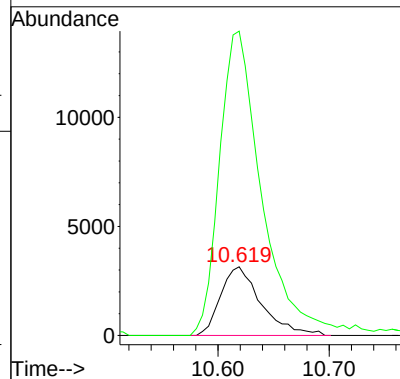
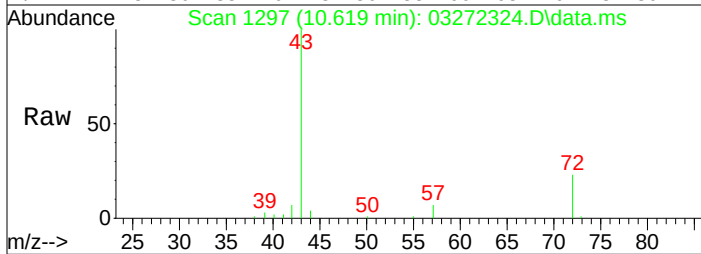
Tgt Ion: 76 Resp: 17631
 Ion Ratio Lower Upper
 76 100
 78 9.2 0.0 29.1





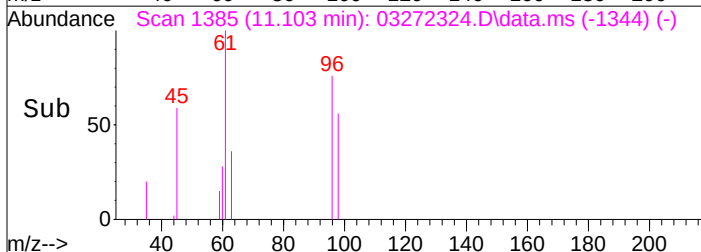
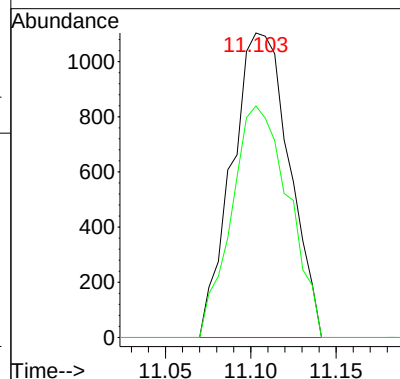
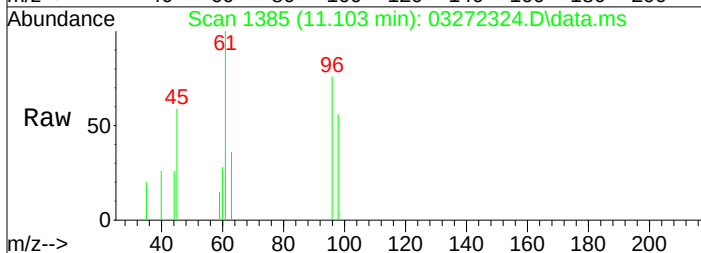
#27
2-Butanone (MEK)
Concen: 0.67 ng
RT: 10.62 min Scan# 1297
Delta R.T. 0.011 min
Lab File: 03272324.D
Acq: 27 Mar 2023 18:28

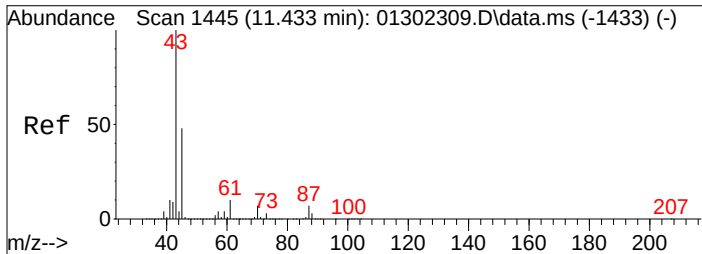
Tgt Ion: 72 Resp: 7988
Ion Ratio Lower Upper
72 100
43 465.8 449.4 489.4



#28
cis-1,2-Dichloroethene
Concen: 0.09 ng
RT: 11.10 min Scan# 1385
Delta R.T. -0.022 min
Lab File: 03272324.D
Acq: 27 Mar 2023 18:28

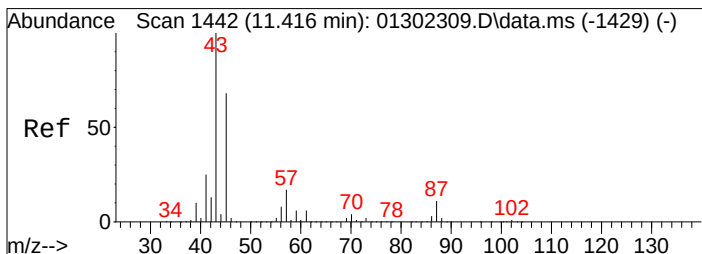
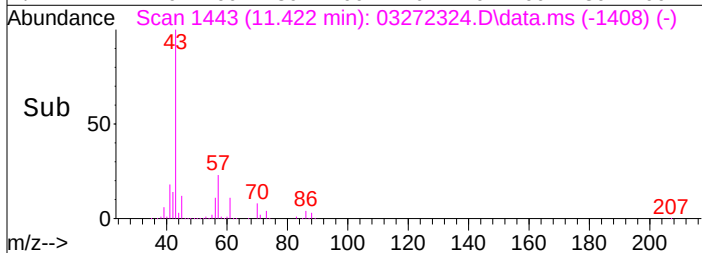
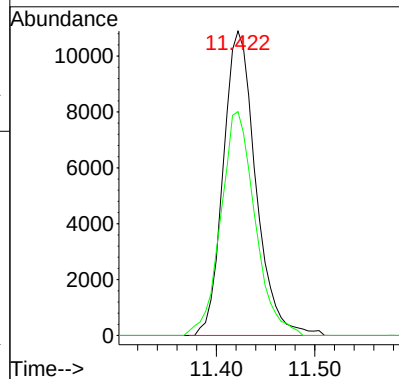
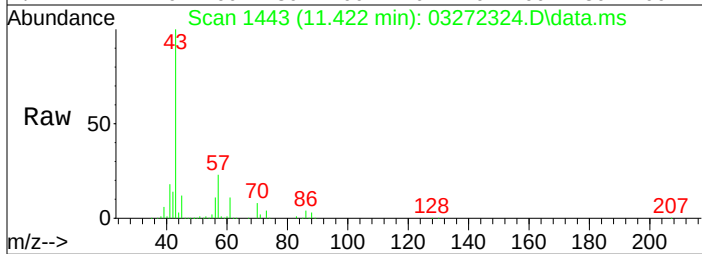
Tgt Ion: 61 Resp: 2577
Ion Ratio Lower Upper
61 100
96 75.8 49.9 89.9





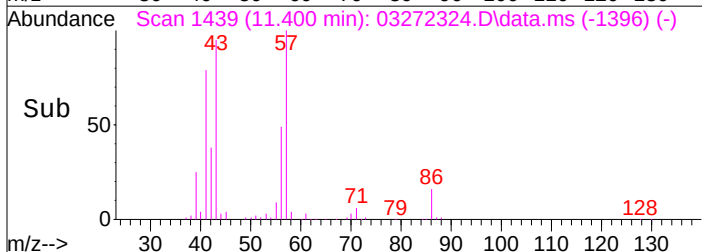
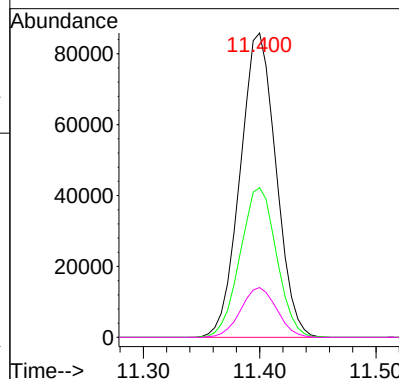
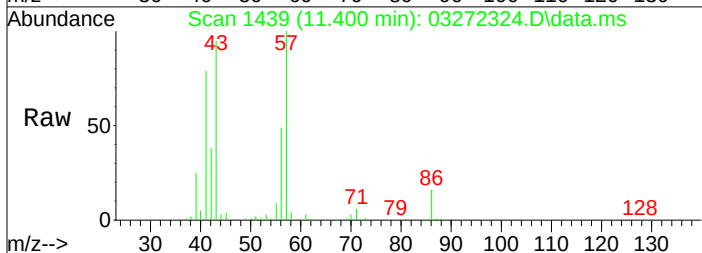
#30
Ethyl Acetate
Concen: 3.24 ng
RT: 11.42 min Scan# 1443
Delta R.T. -0.005 min
Lab File: 03272324.D
Acq: 27 Mar 2023 18:28

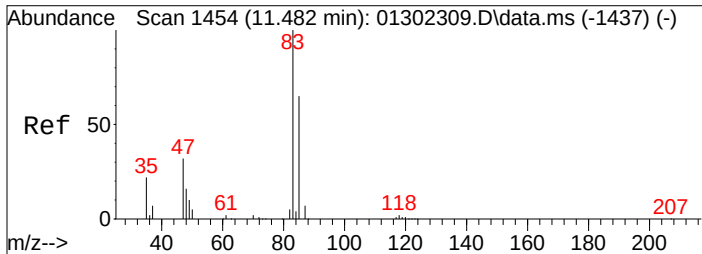
Tgt Ion: 61 Resp: 25063
Ion Ratio Lower Upper
61 100
70 77.2 52.8 92.8



#31
n-Hexane
Concen: 4.75 ng
RT: 11.40 min Scan# 1439
Delta R.T. -0.011 min
Lab File: 03272324.D
Acq: 27 Mar 2023 18:28

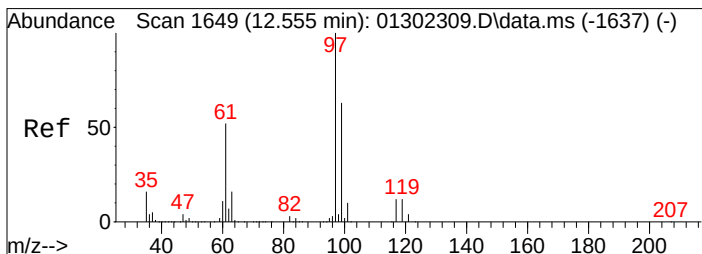
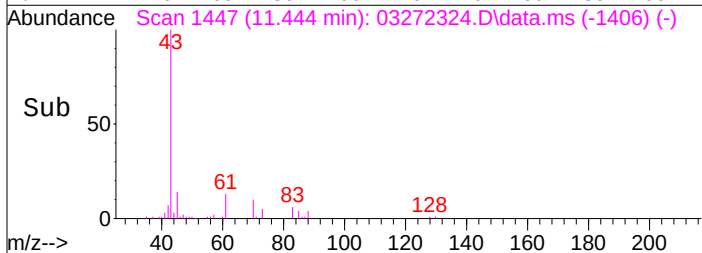
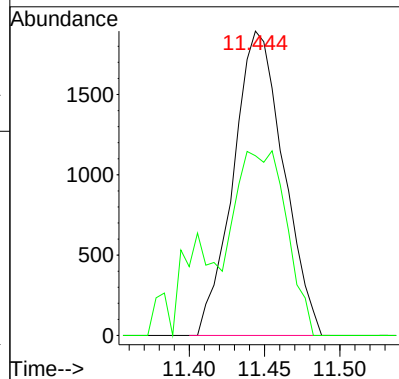
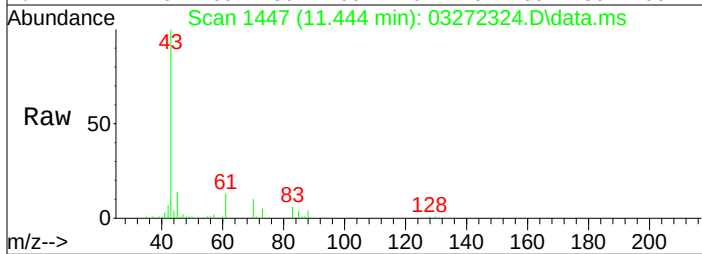
Tgt Ion: 57 Resp: 183941
Ion Ratio Lower Upper
57 100
56 50.0 39.9 59.9
86 16.5 12.3 18.5





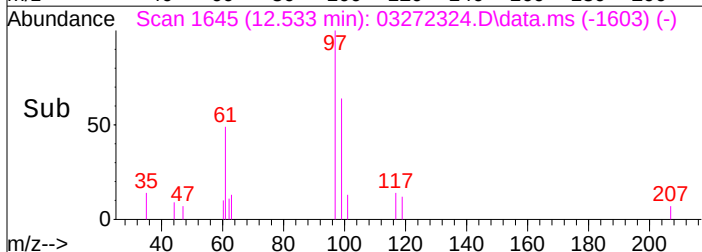
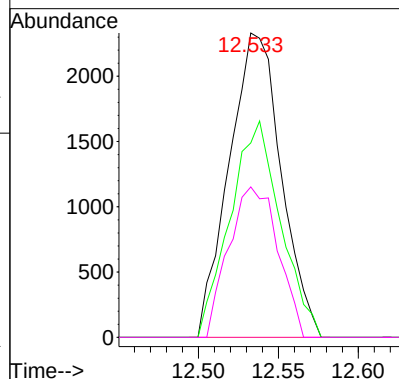
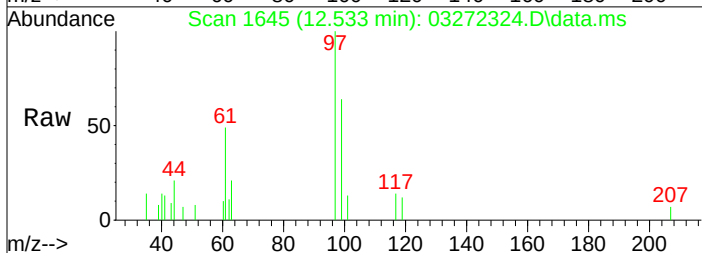
#32
Chloroform
Concen: 0.15 ng
RT: 11.44 min Scan# 1447
Delta R.T. -0.022 min
Lab File: 03272324.D
Acq: 27 Mar 2023 18:28

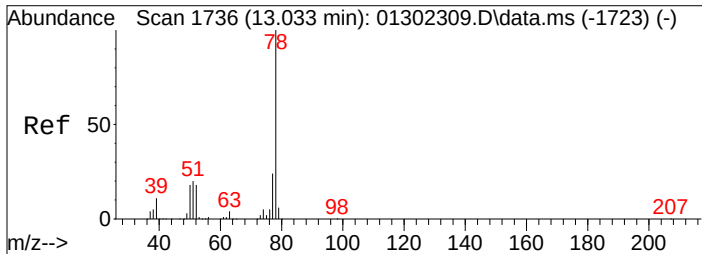
Tgt Ion: 83 Resp: 4393
Ion Ratio Lower Upper
83 100
85 61.9 45.5 85.5



#38
1,1,1-Trichloroethane
Concen: 0.19 ng
RT: 12.53 min Scan# 1645
Delta R.T. -0.016 min
Lab File: 03272324.D
Acq: 27 Mar 2023 18:28

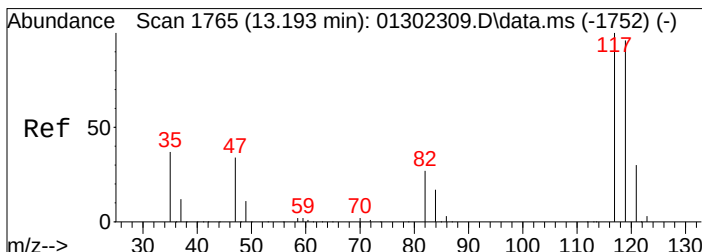
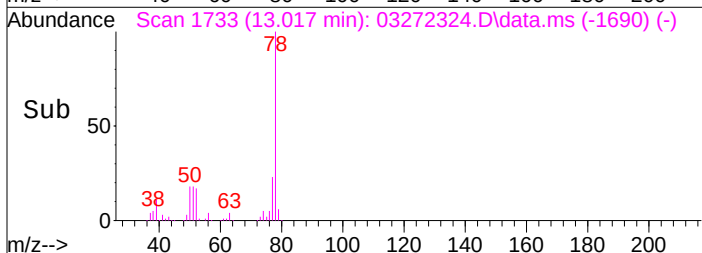
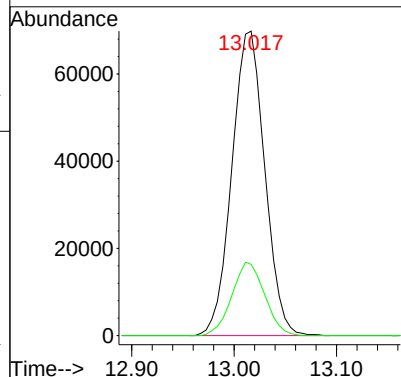
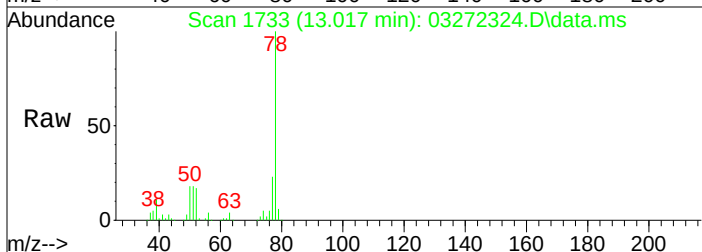
Tgt Ion: 97 Resp: 5278
Ion Ratio Lower Upper
97 100
99 68.9 44.0 84.0
61 46.8 26.8 66.8





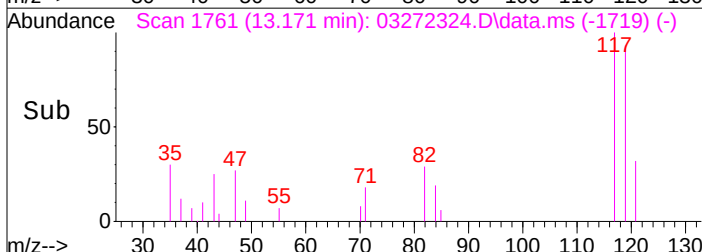
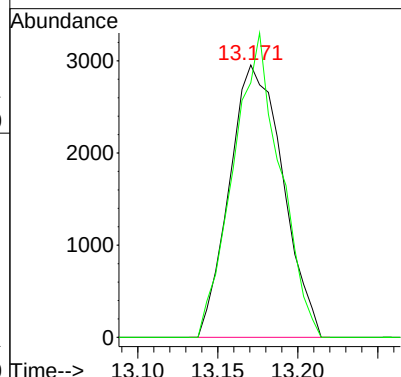
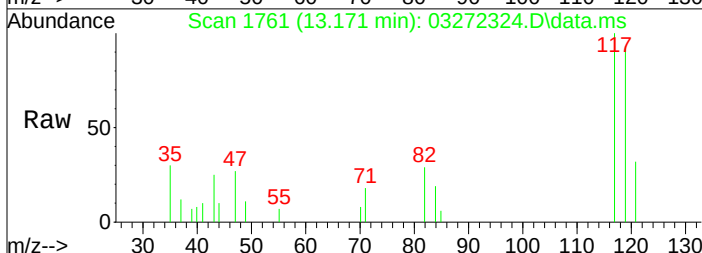
#41
Benzene
Concen: 2.17 ng
RT: 13.02 min Scan# 1733
Delta R.T. -0.011 min
Lab File: 03272324.D
Acq: 27 Mar 2023 18:28

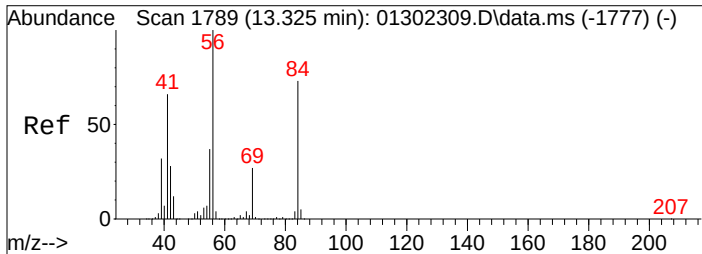
Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.0	3.3	43.3



#42
Carbon Tetrachloride
Concen: 0.29 ng
RT: 13.17 min Scan# 1761
Delta R.T. -0.016 min
Lab File: 03272324.D
Acq: 27 Mar 2023 18:28

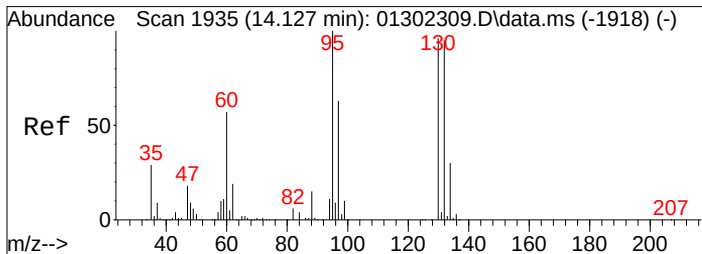
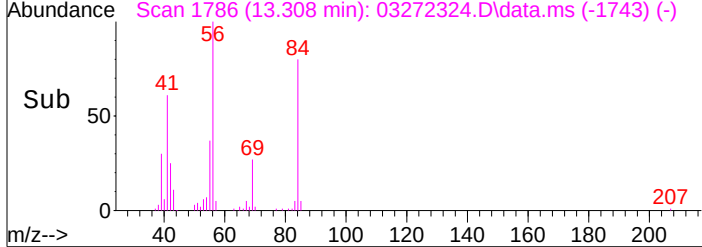
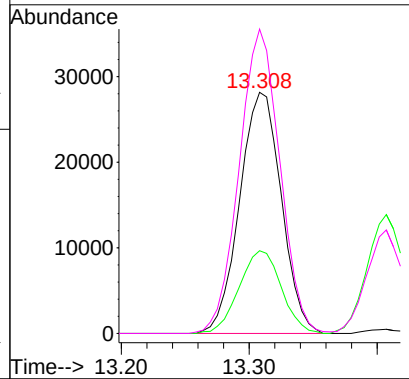
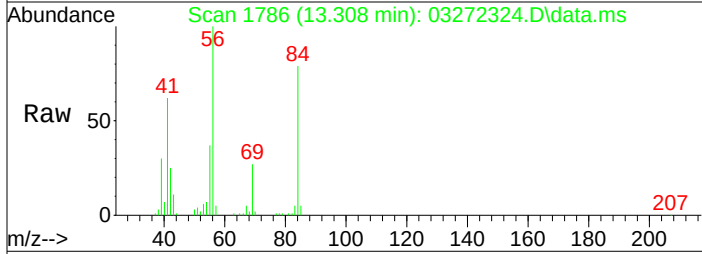
Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.1	76.2	116.2





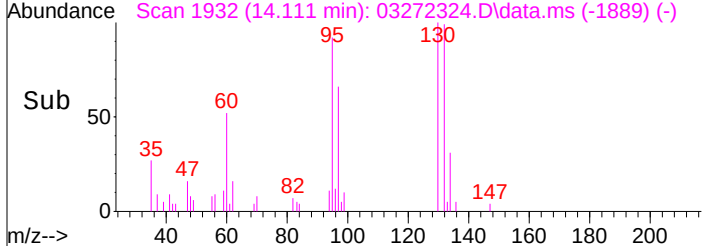
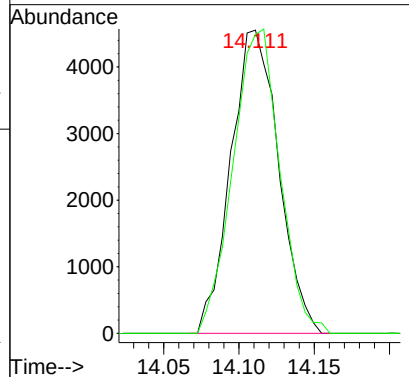
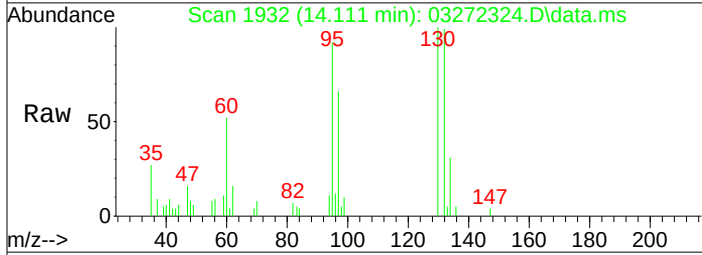
#43
Cyclohexane
Concen: 2.10 ng
RT: 13.31 min Scan# 1786
Delta R.T. -0.011 min
Lab File: 03272324.D
Acq: 27 Mar 2023 18:28

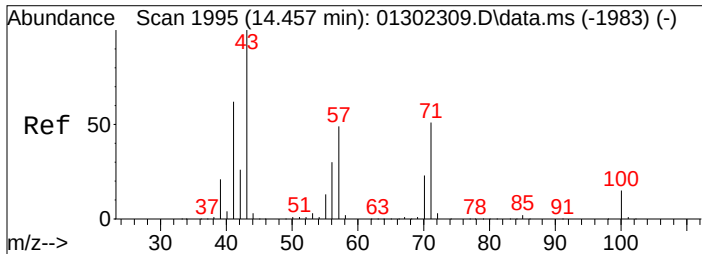
Tgt Ion:	84	Resp:	63730
Ion Ratio		Lower	Upper
84	100		
69	34.7	16.2	56.2
56	123.2	115.2	155.2



#47
Trichloroethene
Concen: 0.51 ng
RT: 14.11 min Scan# 1932
Delta R.T. -0.011 min
Lab File: 03272324.D
Acq: 27 Mar 2023 18:28

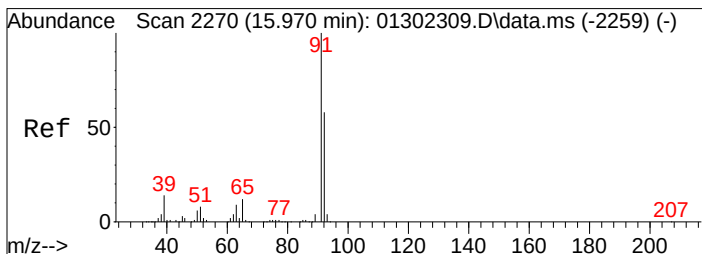
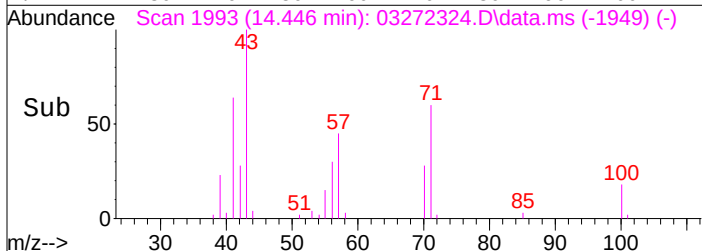
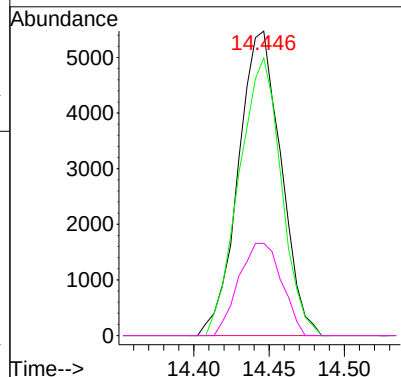
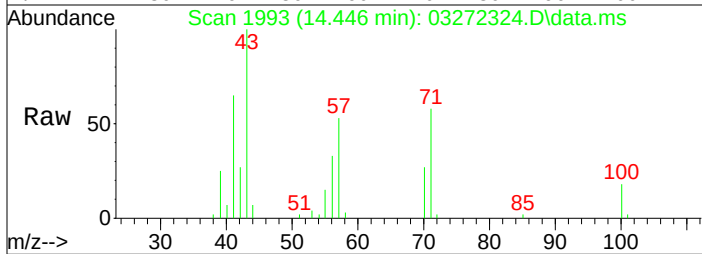
Tgt Ion:	130	Resp:	10046
Ion Ratio		Lower	Upper
130	100		
132	98.3	78.7	118.7





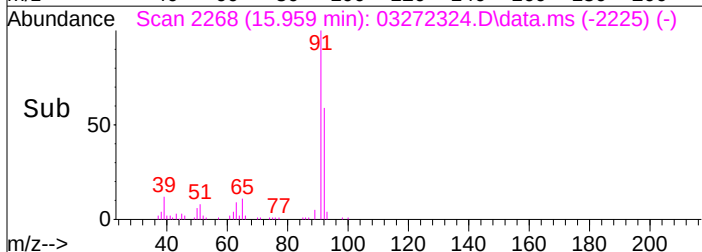
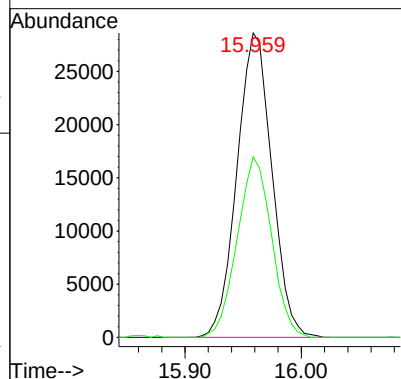
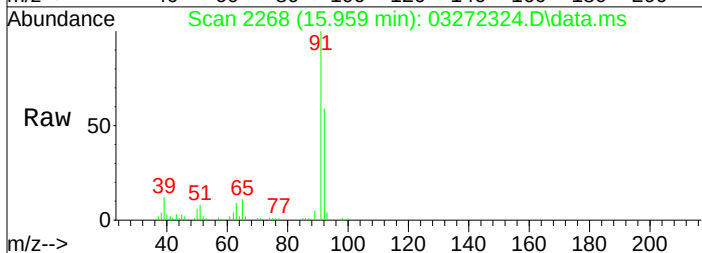
#51
n-Heptane
Concen: 0.51 ng
RT: 14.45 min Scan# 1993
Delta R.T. -0.005 min
Lab File: 03272324.D
Acq: 27 Mar 2023 18:28

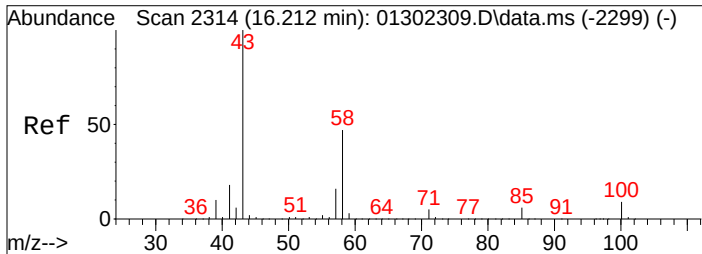
Tgt Ion:	71	Resp:	10786
Ion Ratio		Lower	Upper
71	100		
57	90.1	81.4	121.4
100	30.5	11.8	51.8



#58
Toluene
Concen: 0.73 ng
RT: 15.96 min Scan# 2268
Delta R.T. -0.011 min
Lab File: 03272324.D
Acq: 27 Mar 2023 18:28

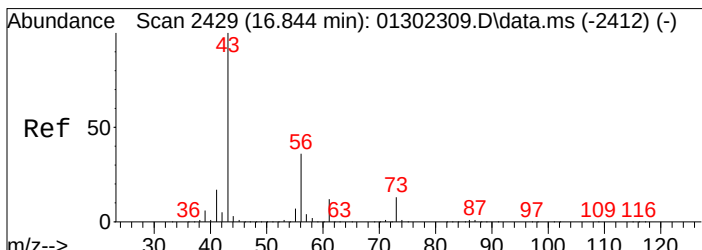
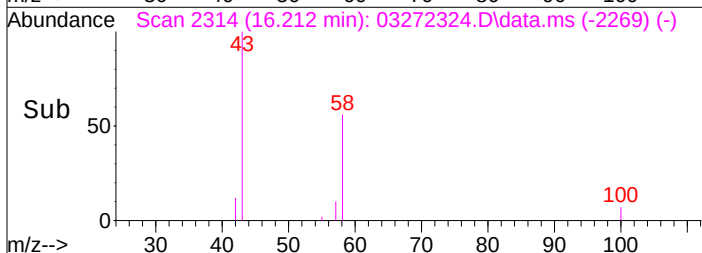
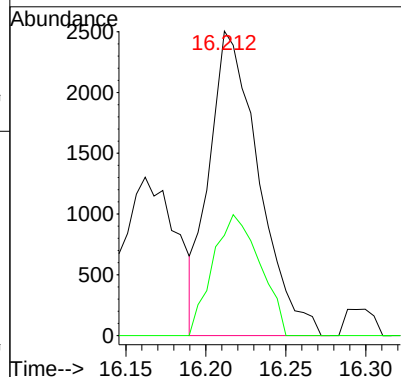
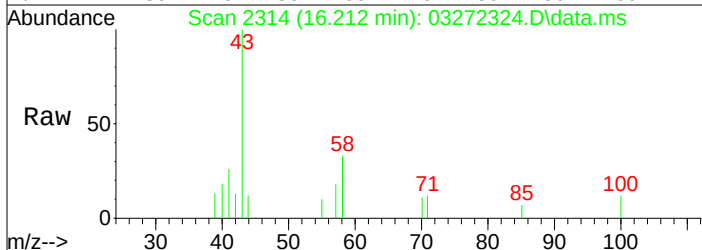
Tgt Ion:	91	Resp:	59685
Ion Ratio		Lower	Upper
91	100		
92	58.2	39.8	79.8





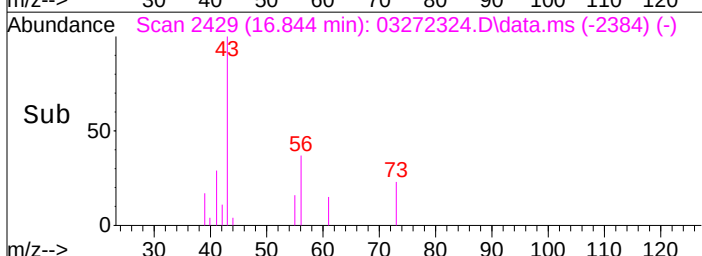
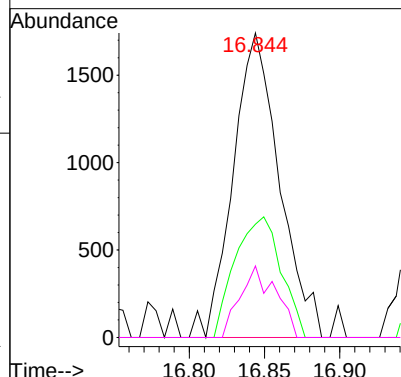
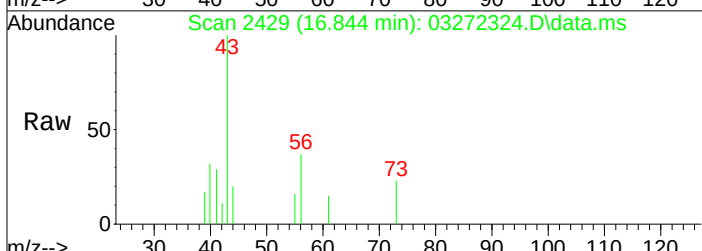
#59
2-Hexanone
Concen: 0.12 ng
RT: 16.21 min Scan# 2314
Delta R.T. 0.000 min
Lab File: 03272324.D
Acq: 27 Mar 2023 18:28

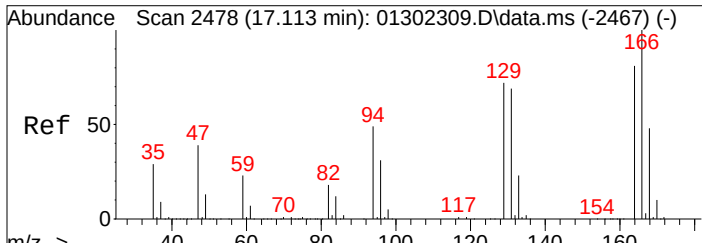
Tgt Ion: 43 Resp: 5387
Ion Ratio Lower Upper
43 100
58 37.9 32.3 72.3



#62
n-Butyl Acetate
Concen: 0.08 ng
RT: 16.84 min Scan# 2429
Delta R.T. -0.000 min
Lab File: 03272324.D
Acq: 27 Mar 2023 18:28

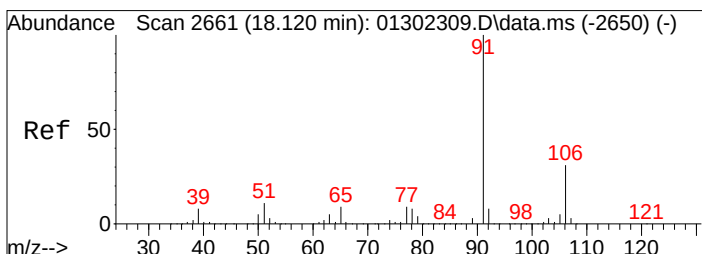
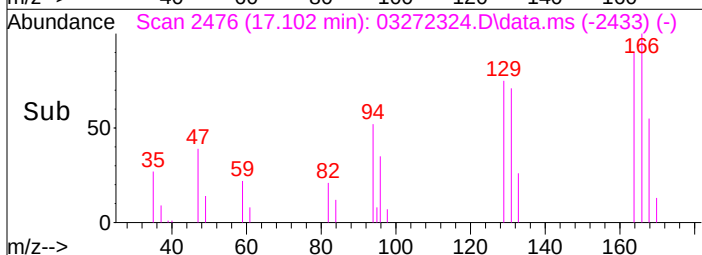
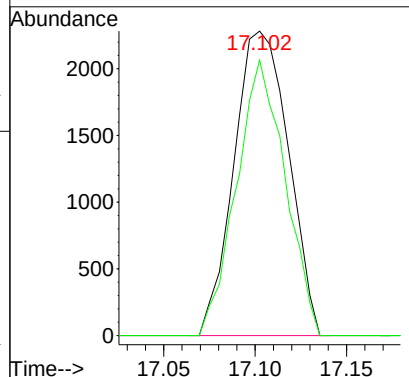
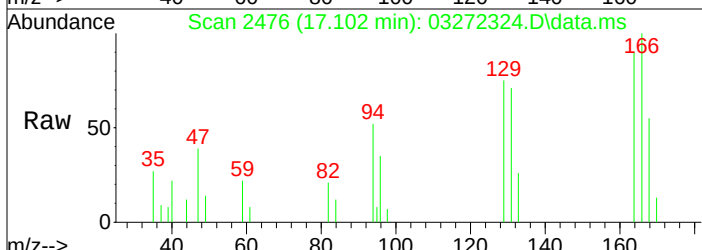
Tgt Ion: 43 Resp: 3736
Ion Ratio Lower Upper
43 100
56 39.2 21.0 61.0
73 18.0 0.0 34.3





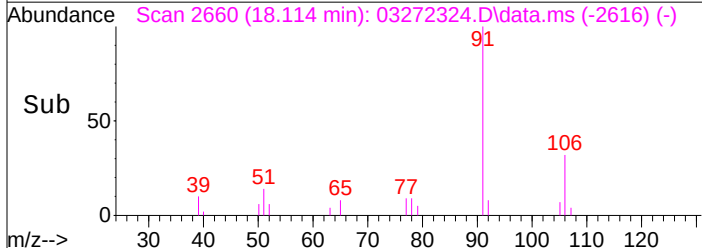
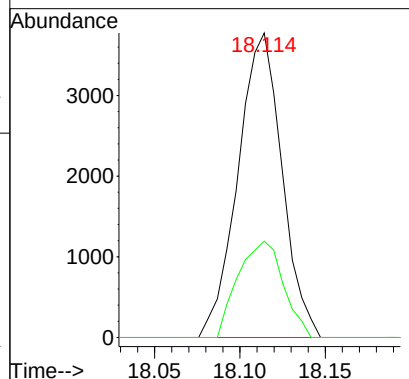
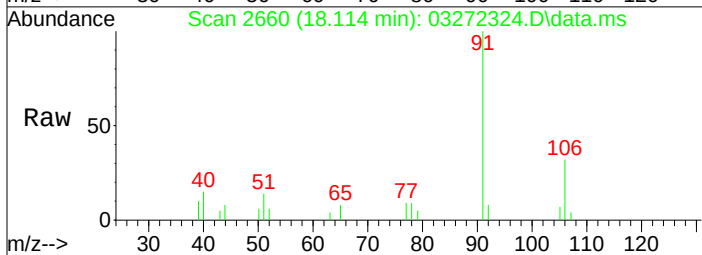
#64
Tetrachloroethene
Concen: 0.23 ng
RT: 17.10 min Scan# 2476
Delta R.T. -0.011 min
Lab File: 03272324.D
Acq: 27 Mar 2023 18:28

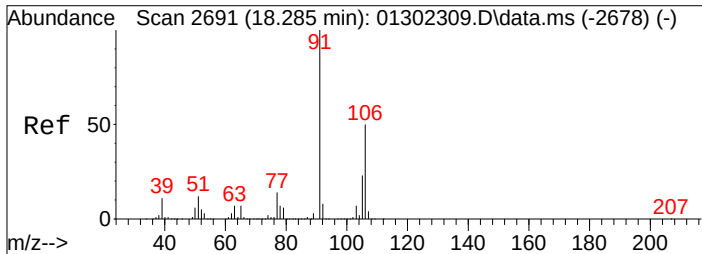
Tgt Ion: 166 Resp: 4738
Ion Ratio Lower Upper
166 100
164 80.8 58.7 98.7



#66
Ethylbenzene
Concen: 0.07 ng
RT: 18.11 min Scan# 2660
Delta R.T. -0.005 min
Lab File: 03272324.D
Acq: 27 Mar 2023 18:28

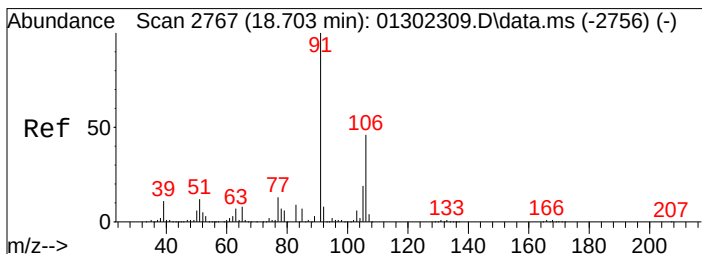
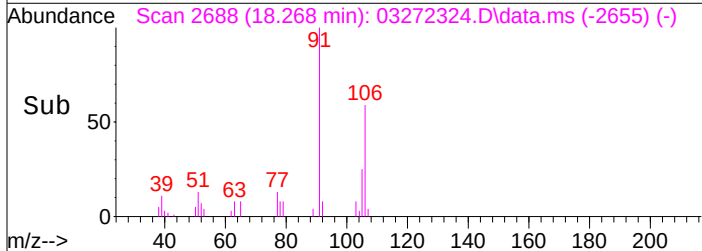
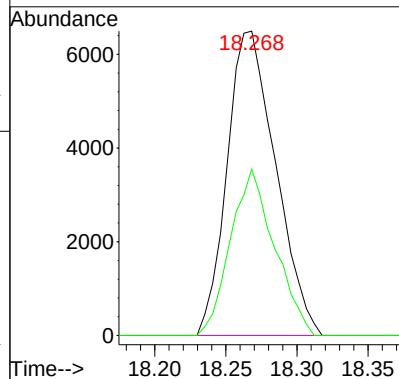
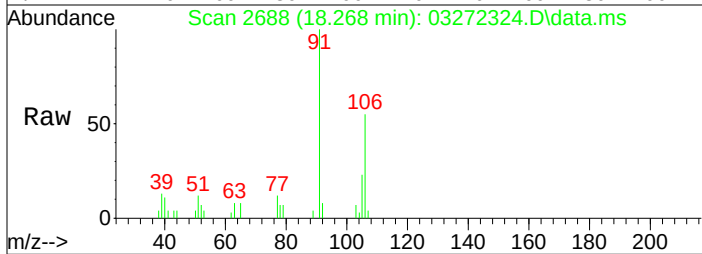
Tgt Ion: 91 Resp: 6767
Ion Ratio Lower Upper
91 100
106 32.4 11.5 51.5





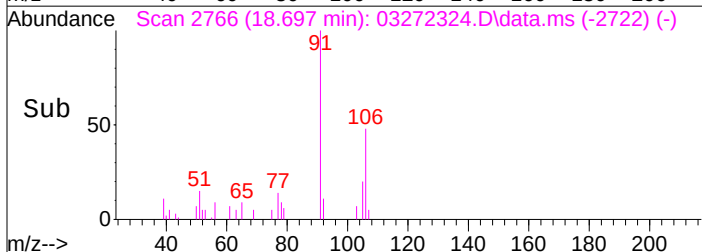
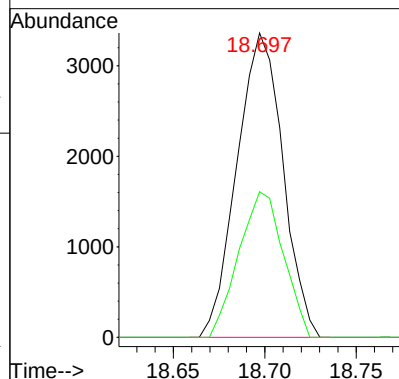
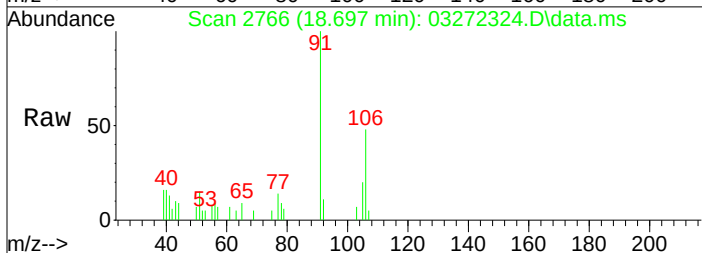
#67
m- & p-Xylenes
Concen: 0.21 ng
RT: 18.27 min Scan# 2688
Delta R.T. -0.016 min
Lab File: 03272324.D
Acq: 27 Mar 2023 18:28

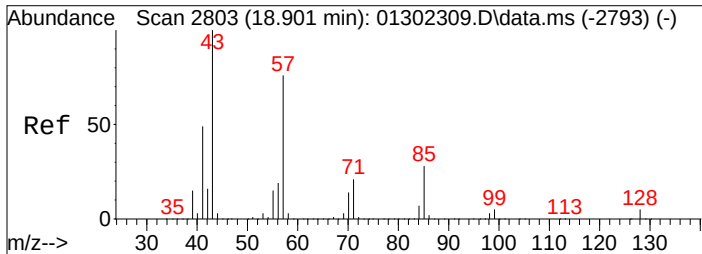
Tgt Ion: 91 Resp: 15426
Ion Ratio Lower Upper
91 100
106 49.5 29.2 69.2



#70
o-Xylene
Concen: 0.08 ng
RT: 18.70 min Scan# 2766
Delta R.T. -0.005 min
Lab File: 03272324.D
Acq: 27 Mar 2023 18:28

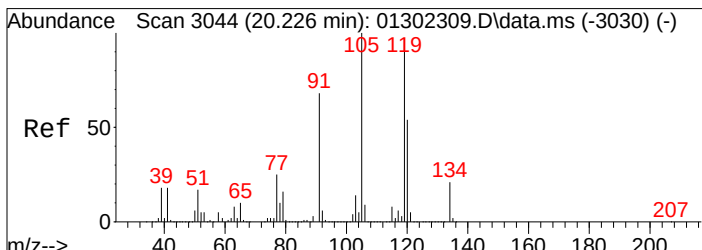
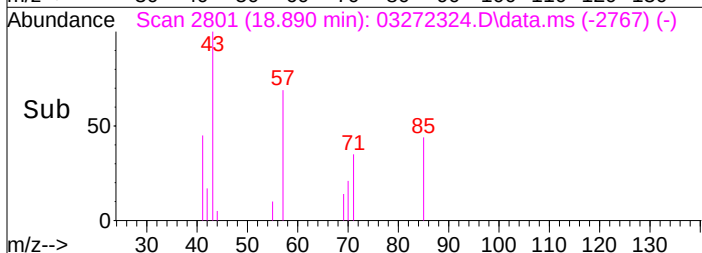
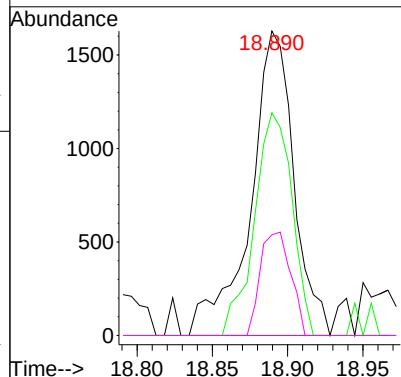
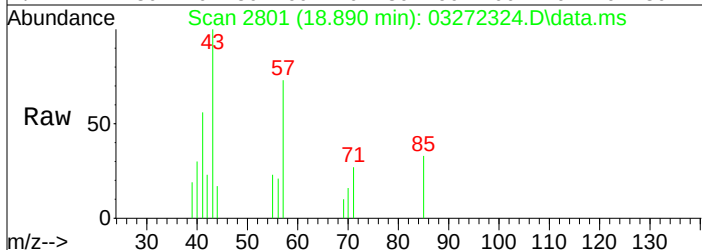
Tgt Ion: 91 Resp: 5875
Ion Ratio Lower Upper
91 100
106 46.4 27.3 67.3





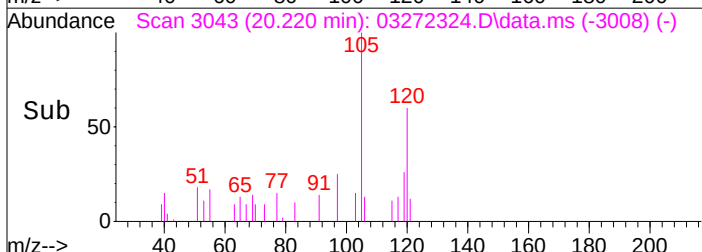
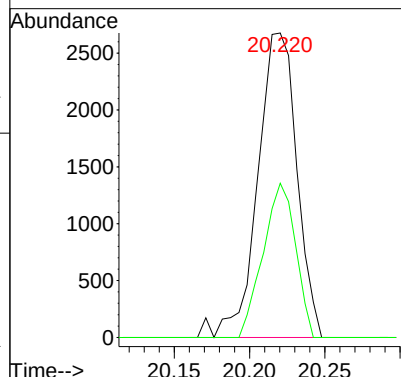
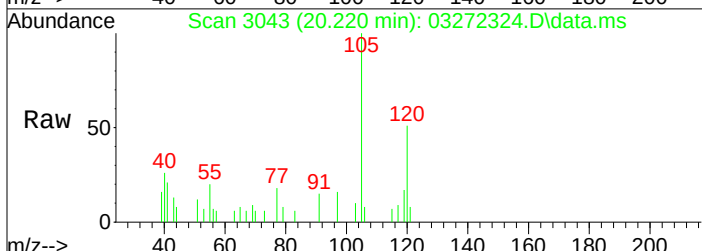
#71
n-Nonane
Concen: 0.06 ng
RT: 18.89 min Scan# 2801
Delta R.T. -0.011 min
Lab File: 03272324.D
Acq: 27 Mar 2023 18:28

Tgt Ion: 43 Resp: 3277
Ion Ratio Lower Upper
43 100
57 63.2 64.6 104.6#
85 23.6 9.6 49.6



#82
1,2,4-Trimethylbenzene
Concen: 0.07 ng
RT: 20.22 min Scan# 3043
Delta R.T. -0.005 min
Lab File: 03272324.D
Acq: 27 Mar 2023 18:28

Tgt Ion: 105 Resp: 4852
Ion Ratio Lower Upper
105 100
120 41.9 37.2 77.2



Data File : I:\MS16\DATA\2023_03\27\03272324.D
 Acq On : 27 Mar 2023 18:28
 Sample : P2301250-035 (1000mL)
 Misc : S35-01312301

Vial: 4
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 19:39:27 2023

Quant Method : I:\MS16\METHODS\C16122022.M

Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD

QLast Update : Wed Dec 21 05:02:49 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.28	130	221826	12.500	ng	-0.02
16) 1,4-Difluorobenzene (C_2)	13.41	114	1019430	12.500	ng	-0.02
19) Chlorobenzene-d5 (C_3)	17.72	54	214197	12.500	ng	0.00

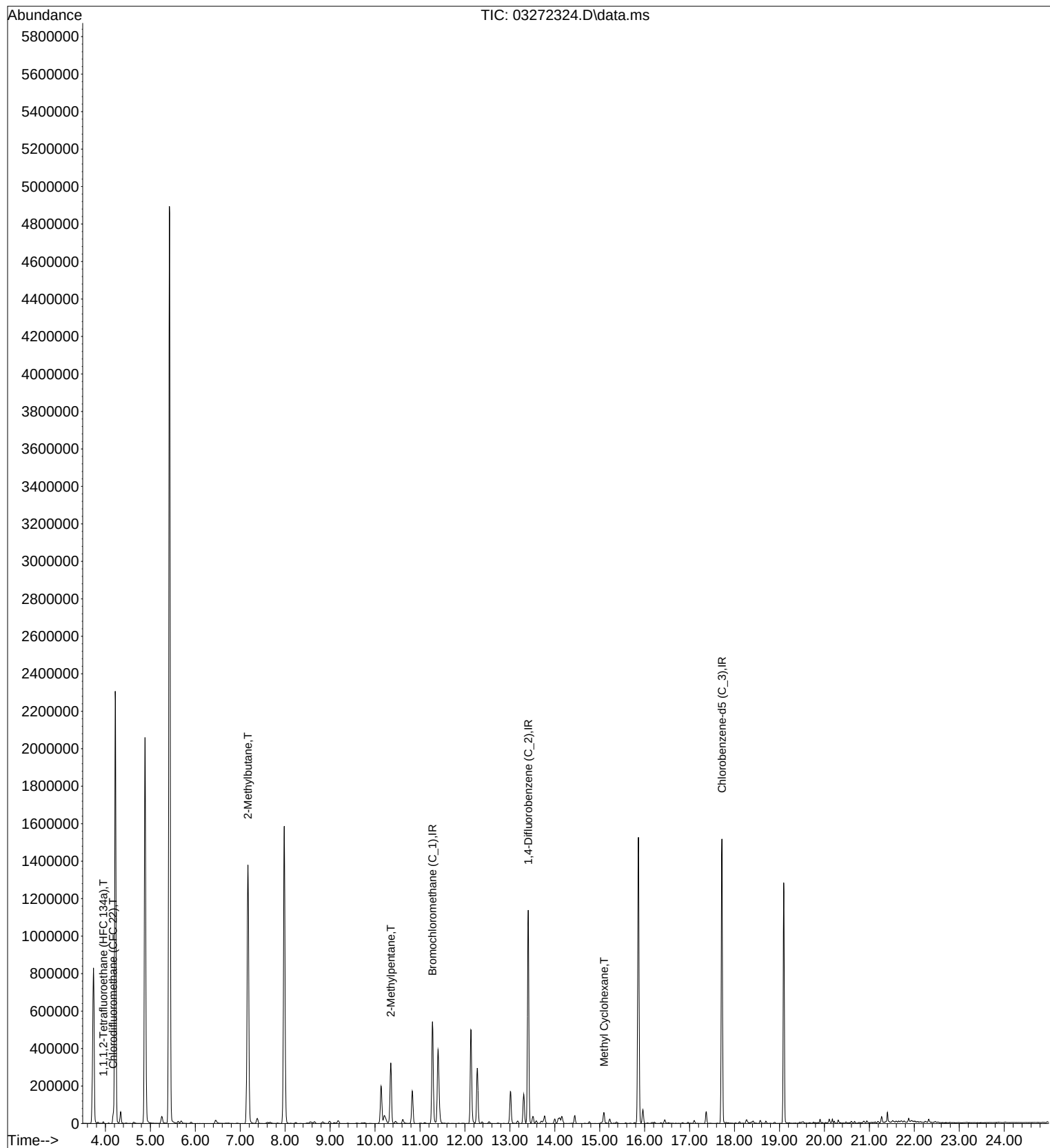
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.84	85	603	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.95	83	5012	0.285	ng	91
4) 1,1-Difluoroethane	4.07	65	1066	N.D.		
5) Chlorodifluoromethane ...	4.17	67	2195	0.400	ng	83
6) 1-Chloro-1,1-Difluoroe...	4.63	65	2618	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	7.17	57	473049	19.038	ng	# 75
11) Methyl Acetate	8.60	43	9218	N.D.		
12) 2-Methylpentane	10.35	71	84367	3.869	ng	92
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	13.17	84	1262	N.D.		
17) 2,3-Dimethylpentane	13.59	56	6502	N.D.		
18) Dibromomethane	13.82	174	232	N.D.		
20) Methyl Cyclohexane	15.10	55	22258	0.617	ng	99
21) 1,3-Dichloropropane	15.96	76	127	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	0.00	91	0	N.D.		
24) 1,2,3-Trichloropropane	18.70	75	53	N.D.		
25) Bromobenzene	0.00	77	0	N.D.		
26) 2-Chlorotoluene	19.66	91	1667	N.D.		
27) 4-Chlorotoluene	19.66	91	1667	N.D.		
28) Indane	20.77	117	665	N.D.		
29) Indene	20.86	115	199	N.D.		
30) 1,2,4,5-Tetramethylben...	21.61	119	1952	N.D.		
31) 1,2,3,4-Tetramethylben...	21.65	119	2908	N.D.		
32) 1,2,3,5-Tetramethylben...	21.99	119	1723	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\27\03272324.D
Acq On : 27 Mar 2023 18:28
Sample : P2301250-035 (1000mL)
Misc : S35-01312301

Vial: 4
Operator: WA
Inst : GCMS-16

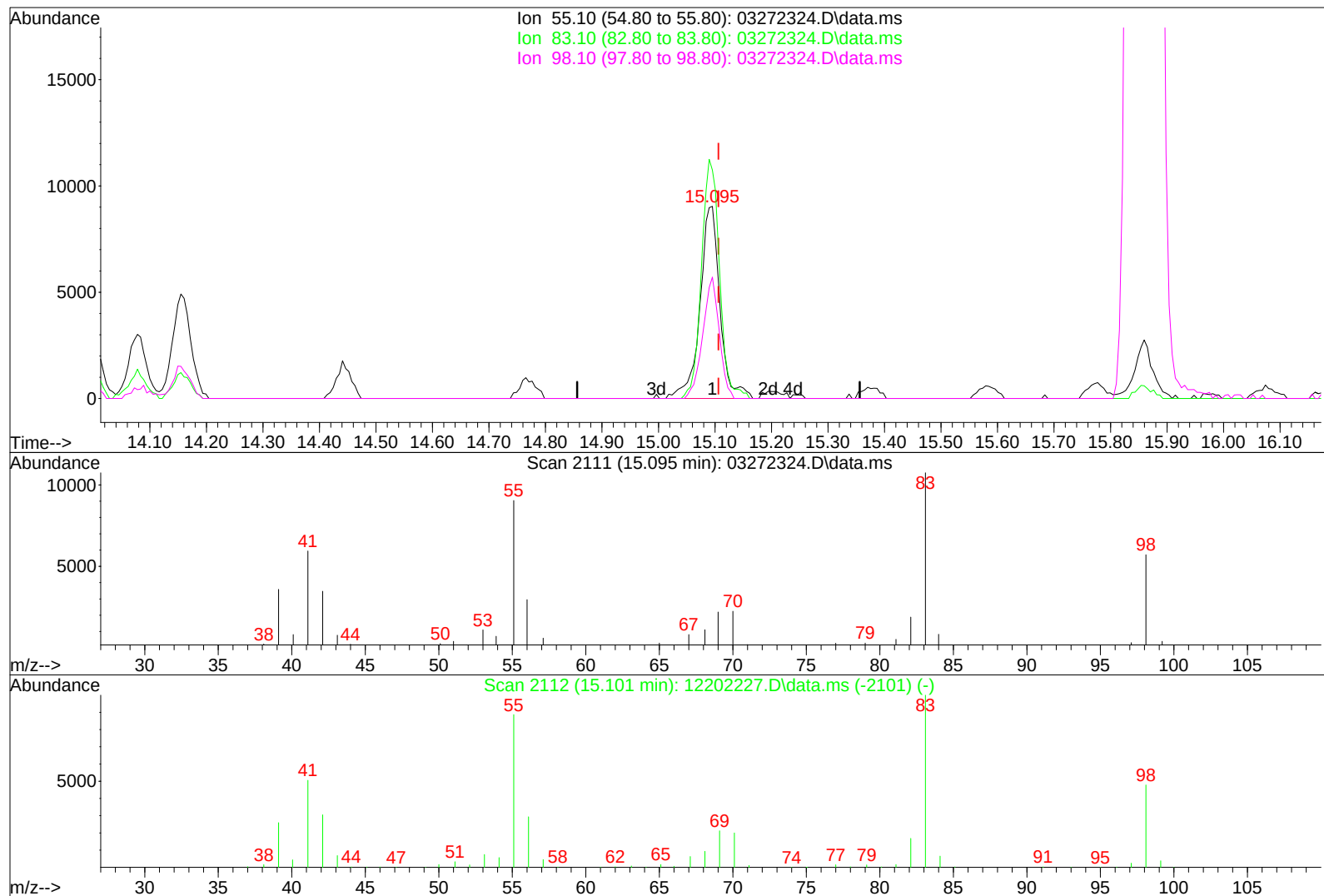
Quant Time: Mar 27 19:39:27 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



Data File : I:\MS16\DATA\2023_03\27\03272324.D
Acq On : 27 Mar 2023 18:28
Sample : P2301250-035 (1000mL)
Misc : S35-01312301

Vial: 4
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 19:39:27 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



TIC: 03272324.D\data.ms

(20) Methyl Cyclohexane (T)

15.095min (-0.011) 0.62ng

response 22258

Ion	Exp%	Act%
55.10	100	100
83.10	111.60	112.49
98.10	53.80	51.98
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG5

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-036

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01023

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.95 Final Pressure (psig): 3.57

Container Dilution Factor: 1.43

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.8	0.76	0.12	0.57	0.15	0.025	
74-87-3	Chloromethane	0.26	0.30	0.12	0.13	0.15	0.060	J, V
75-01-4	Vinyl Chloride	ND	0.16	0.082	ND	0.062	0.032	
74-83-9	Bromomethane	ND	0.30	0.11	ND	0.077	0.027	
75-00-3	Chloroethane	ND	0.30	0.094	ND	0.11	0.036	
67-64-1	Acetone	5.2	7.5	1.7	2.2	3.2	0.72	J
75-69-4	Trichlorofluoromethane	1.3	0.74	0.12	0.24	0.13	0.021	
75-35-4	1,1-Dichloroethene	ND	0.16	0.11	ND	0.040	0.027	
75-09-2	Methylene Chloride	0.39	0.76	0.21	0.11	0.22	0.062	J
76-13-1	Trichlorotrifluoroethane	0.52	0.77	0.11	0.068	0.10	0.014	J
75-15-0	Carbon Disulfide	ND	1.5	0.23	ND	0.49	0.074	
156-60-5	trans-1,2-Dichloroethene	ND	0.16	0.11	ND	0.040	0.027	
75-34-3	1,1-Dichloroethane	ND	0.16	0.11	ND	0.039	0.028	
1634-04-4	Methyl tert-Butyl Ether	ND	0.77	0.090	ND	0.21	0.025	
78-93-3	2-Butanone (MEK)	0.86	1.5	0.16	0.29	0.50	0.053	J
156-59-2	cis-1,2-Dichloroethene	ND	0.16	0.11	ND	0.040	0.027	
67-66-3	Chloroform	0.25	0.16	0.10	0.052	0.032	0.021	
107-06-2	1,2-Dichloroethane	ND	0.16	0.084	ND	0.039	0.021	
71-55-6	1,1,1-Trichloroethane	0.10	0.16	0.094	0.019	0.029	0.017	J
71-43-2	Benzene	0.92	0.16	0.11	0.29	0.049	0.034	
56-23-5	Carbon Tetrachloride	0.47	0.16	0.11	0.074	0.025	0.017	
110-82-7	Cyclohexane	ND	1.5	0.21	ND	0.44	0.062	
78-87-5	1,2-Dichloropropane	ND	0.16	0.094	ND	0.034	0.020	
75-27-4	Bromodichloromethane	ND	0.16	0.11	ND	0.023	0.016	
79-01-6	Trichloroethene	0.76	0.16	0.10	0.14	0.029	0.019	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG5

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-036

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01023

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.95 Final Pressure (psig): 3.57

Container Dilution Factor: 1.43

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.77	0.12	ND	0.17	0.026	
108-10-1	4-Methyl-2-pentanone	ND	1.6	0.10	ND	0.38	0.025	
10061-02-6	trans-1,3-Dichloropropene	ND	0.73	0.16	ND	0.16	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.16	0.077	ND	0.029	0.014	
108-88-3	Toluene	0.62	0.76	0.093	0.16	0.20	0.025	J
591-78-6	2-Hexanone	0.10	1.6	0.094	0.025	0.38	0.023	J
124-48-1	Dibromochloromethane	ND	0.16	0.10	ND	0.018	0.012	
106-93-4	1,2-Dibromoethane	ND	0.16	0.089	ND	0.020	0.012	
127-18-4	Tetrachloroethene	0.32	0.16	0.099	0.048	0.023	0.015	
108-90-7	Chlorobenzene	ND	0.76	0.10	ND	0.16	0.022	
100-41-4	Ethylbenzene	ND	0.76	0.11	ND	0.17	0.025	
179601-23-1	m,p-Xylenes	0.27	1.6	0.20	0.062	0.36	0.046	J
75-25-2	Bromoform	ND	0.77	0.16	ND	0.075	0.015	
100-42-5	Styrene	ND	0.76	0.12	ND	0.18	0.029	
95-47-6	o-Xylene	ND	0.76	0.11	ND	0.17	0.025	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	0.11	ND	0.023	0.015	
98-82-8	Cumene	ND	0.77	0.11	ND	0.16	0.022	
541-73-1	1,3-Dichlorobenzene	ND	0.76	0.11	ND	0.13	0.019	
106-46-7	1,4-Dichlorobenzene	ND	0.76	0.12	ND	0.13	0.020	
95-50-1	1,2-Dichlorobenzene	ND	0.77	0.11	ND	0.13	0.019	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.6	0.14	ND	0.16	0.015	
120-82-1	1,2,4-Trichlorobenzene	ND	1.6	0.19	ND	0.21	0.025	
79-20-9	Methyl Acetate	ND	0.72	0.34	ND	0.24	0.11	X
108-87-2	Methylcyclohexane	ND	0.72	0.37	ND	0.18	0.093	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS16\DATA\2023_03\27\03272323.D
 Acq On : 27 Mar 2023 17:54
 Sample : P2301250-036 (1000mL)
 Misc : S35-01312301

Vial: 5
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 19:30:59 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:TO15B.M

107 3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	226196	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	1030384	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.72	54	217973	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.13	65	387700	12.889	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	103.12%	
57) Toluene-d8 (SS2)	15.86	98	1166874	12.228	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	97.84%	
73) Bromofluorobenzene (SS3)	19.10	174	361094	12.132	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	97.04%	

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	4.33	85	66468	1.966	ng	100
4) Chloromethane	4.62	50	5841	0.185	ng	91
5) 1,2-Dichloro-1,1,2,2-t...	4.90	135	1644	0.087	ng	88
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.33	54	619	N.D.		
8) Bromomethane	5.76	94	288	N.D.		
9) Chloroethane	6.10	64	171	N.D.		
10) Ethanol	6.45	45	34417	1.581	ng	95
11) Acetonitrile	6.74	41	3818	0.070	ng	89
12) Acrolein	6.92	56	4945	0.321	ng	98
13) Acetone	7.14	58	60056	3.607	ng	93
14) Trichlorofluoromethane	7.37	101	29276	0.939	ng	99
15) 2-Propanol (Isopropanol)	7.66	45	14506	0.250	ng	76
16) Acrylonitrile	7.90	53	55	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	8.60	59	801	N.D.		
19) Methylene Chloride	8.56	84	5017	0.273	ng	86
20) 3-Chloro-1-propene (Al...	8.66	41	260	N.D.		
21) Trichlorotrifluoroethane	8.99	151	5639	0.363	ng	94
22) Carbon Disulfide	8.83	76	9527	0.145	ng	94
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	10.09	63	931	N.D.		
25) Methyl tert-Butyl Ether	10.23	73	116	N.D.		
26) Vinyl Acetate	10.31	86	1748	0.470	ng	# 80
27) 2-Butanone (MEK)	10.62	72	7274	0.603	ng	97
28) cis-1,2-Dichloroethene	11.10	61	279	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	11.42	61	31326	3.968	ng	97
31) n-Hexane	11.40	57	7187	0.182	ng	95
32) Chloroform	11.44	83	5351	0.177	ng	94
34) Tetrahydrofuran (THF)	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	N.D.	d	
38) 1,1,1-Trichloroethane	12.54	97	1998	0.072	ng	93
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	12.61	56	398	No Calib	#	
41) Benzene	13.02	78	46572	0.642	ng	98
42) Carbon Tetrachloride	13.17	117	7696	0.326	ng	98
43) Cyclohexane	13.31	84	1735	0.057	ng	95
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	14.05	83	408	N.D.		
47) Trichloroethene	14.11	130	10409	0.528	ng	96
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	14.18	57	7085	0.072	ng	72
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS16\DATA\2023_03\27\03272323.D
 Acq On : 27 Mar 2023 17:54
 Sample : P2301250-036 (1000mL)
 Misc : S35-01312301

Vial: 5
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 19:30:59 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

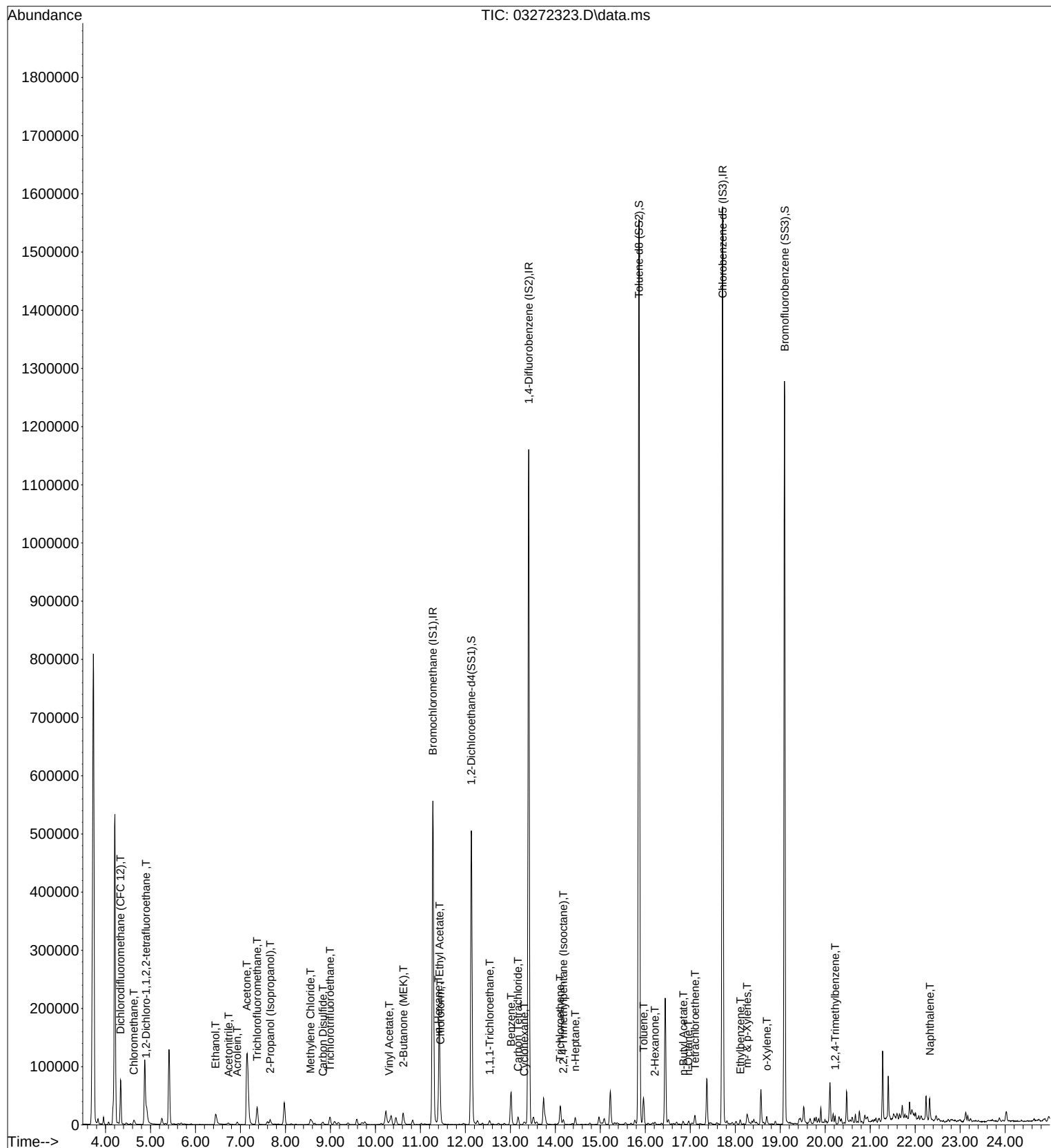
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.44	71	3126	0.147	ng	85
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	15.02	58	516	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.96	91	36259	0.434	ng	98
59) 2-Hexanone	16.21	43	3149	0.071	ng	79
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.84	43	4581	0.091	ng	94
63) n-Octane	16.96	57	1083	0.051	ng	94
64) Tetrachloroethene	17.11	166	4827	0.227	ng	100
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	18.11	91	6407	0.068	ng	96
67) m- & p-Xylenes	18.26	91	14059	0.188	ng	99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.60	104	1376	N.D.		
70) o-Xylene	18.70	91	5585	0.076	ng	97
71) n-Nonane	18.89	43	2555	N.D.		
72) 1,1,2,2-Tetrachloroethane	18.71	83	324	N.D.		
74) Cumene	19.22	105	828	N.D.		
75) alpha-Pinene	19.57	93	948	N.D.		
76) n-Propylbenzene	19.66	91	2685	N.D.		
77) 3-Ethyltoluene	20.22	105	5169	No Calib	#	
78) 4-Ethyltoluene	19.80	105	1838	N.D.		
79) 1,3,5-Trimethylbenzene	19.86	105	1597	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.22	105	5169	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.22	105	5169	0.069	ng	88
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	20.34	91	345	N.D.		
85) 1,3-Dichlorobenzene	20.42	146	118	N.D.		
86) 1,4-Dichlorobenzene	20.42	146	118	N.D.		
87) sec-Butylbenzene	20.46	105	545	N.D.		
88) 4-Isopropyltoluene (p-...	20.59	119	1777	N.D.		
89) 1,2,3-Trimethylbenzene	20.22	105	5169	No Calib	#	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	20.72	68	982	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	21.40	58	975	No Calib	#	
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	22.33	128	4732	0.051	ng	97
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	18.19	55	242	No Calib	#	
99) tert-Butylbenzene	20.22	119	801	N.D.		
100) n-Butylbenzene	20.94	91	2407	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\27\03272323.D
Acq On : 27 Mar 2023 17:54
Sample : P2301250-036 (1000mL)
Misc : S35-01312301

Vial: 5
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 19:30:59 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



Data File : I:\MS16\DATA\2023_03\27\03272323.D
 Acq On : 27 Mar 2023 17:54
 Sample : P2301250-036 (1000mL)
 Misc : S35-01312301

Vial: 5
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 19:30:59 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

107 3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	226196	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	1030384	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.72	54	217973	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.13	65	387700	12.889	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	103.12%
57) Toluene-d8 (SS2)	15.86	98	1166874	12.228	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	97.84%
73) Bromofluorobenzene (SS3)	19.10	174	361094	12.132	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	97.04%

Target Compounds

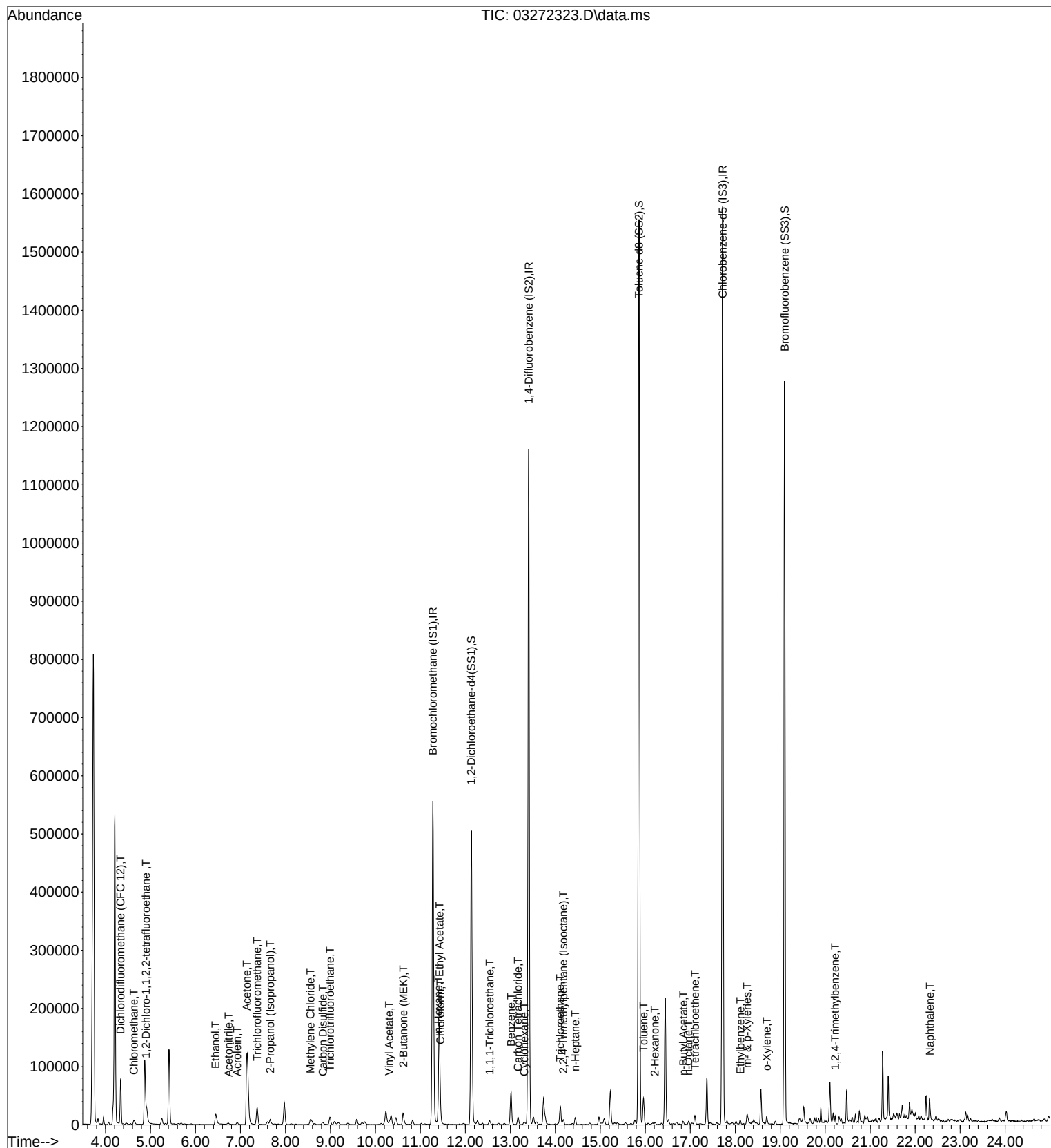
						Qvalue
3) Dichlorodifluoromethan...	4.33	85	66468	1.966	ng	100
4) Chloromethane	4.62	50	5841	0.185	ng	91
5) 1,2-Dichloro-1,1,2,2-t...	4.90	135	1644	0.087	ng	88
10) Ethanol	6.45	45	34417	1.581	ng	95
11) Acetonitrile	6.74	41	3818	0.070	ng	89
12) Acrolein	6.92	56	4945	0.321	ng	98
13) Acetone	7.14	58	60056	3.607	ng	93
14) Trichlorofluoromethane	7.37	101	29276	0.939	ng	99
15) 2-Propanol (Isopropanol)	7.66	45	14506	0.250	ng	76
19) Methylene Chloride	8.56	84	5017	0.273	ng	86
21) Trichlorotrifluoroethane	8.99	151	5639	0.363	ng	94
22) Carbon Disulfide	8.83	76	9527	0.145	ng	94
26) Vinyl Acetate	10.31	86	1748	0.470	ng	# 80
27) 2-Butanone (MEK)	10.62	72	7274	0.603	ng	97
30) Ethyl Acetate	11.42	61	31326	3.968	ng	97
31) n-Hexane	11.40	57	7187	0.182	ng	95
32) Chloroform	11.44	83	5351	0.177	ng	94
38) 1,1,1-Trichloroethane	12.54	97	1998	0.072	ng	93
41) Benzene	13.02	78	46572	0.642	ng	98
42) Carbon Tetrachloride	13.17	117	7696	0.326	ng	98
43) Cyclohexane	13.31	84	1735	0.057	ng	95
47) Trichloroethene	14.11	130	10409	0.528	ng	96
49) 2,2,4-Trimethylpentane...	14.18	57	7085	0.072	ng	72
51) n-Heptane	14.44	71	3126	0.147	ng	85
58) Toluene	15.96	91	36259	0.434	ng	98
59) 2-Hexanone	16.21	43	3149	0.071	ng	79
62) n-Butyl Acetate	16.84	43	4581	0.091	ng	94
63) n-Octane	16.96	57	1083	0.051	ng	94
64) Tetrachloroethene	17.11	166	4827	0.227	ng	100
66) Ethylbenzene	18.11	91	6407	0.068	ng	96
67) m- & p-Xylenes	18.26	91	14059	0.188	ng	99
70) o-Xylene	18.70	91	5585	0.076	ng	97
82) 1,2,4-Trimethylbenzene	20.22	105	5169	0.069	ng	88
95) Naphthalene	22.33	128	4732	0.051	ng	97

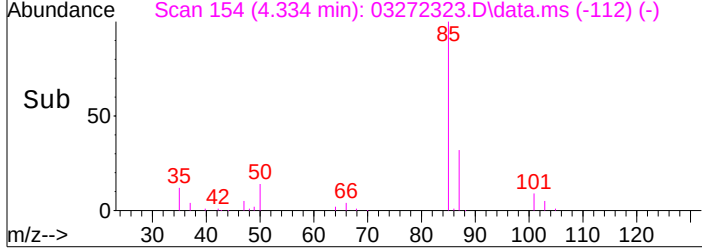
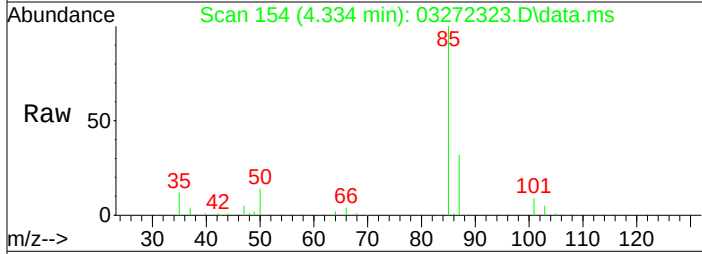
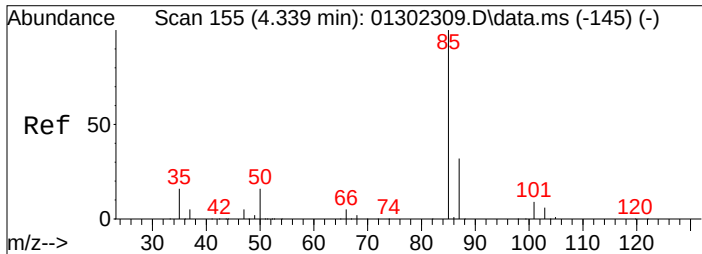
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS16\DATA\2023_03\27\03272323.D
Acq On : 27 Mar 2023 17:54
Sample : P2301250-036 (1000mL)
Misc : S35-01312301

Vial: 5
Operator: WA
Inst : GCMS-16

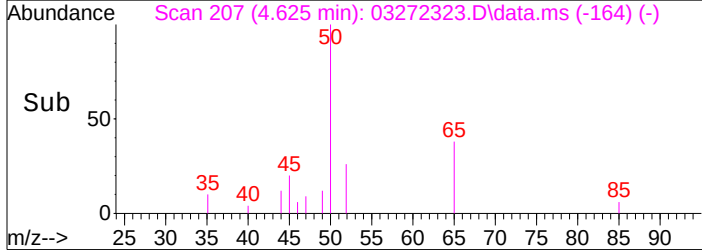
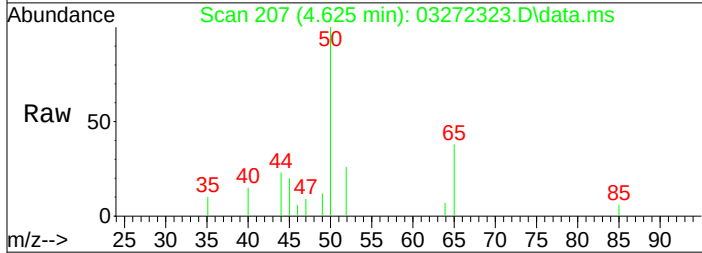
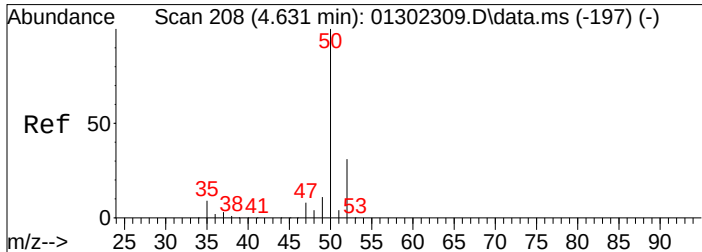
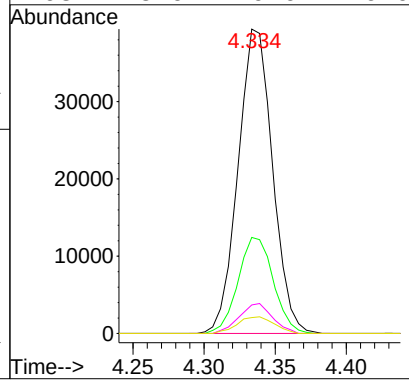
Quant Time: Mar 27 19:30:59 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M





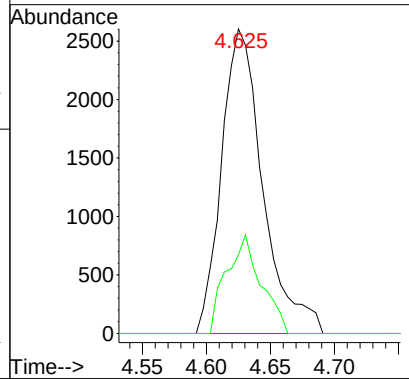
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.97 ng
 RT: 4.33 min Scan# 154
 Delta R.T. -0.016 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:54

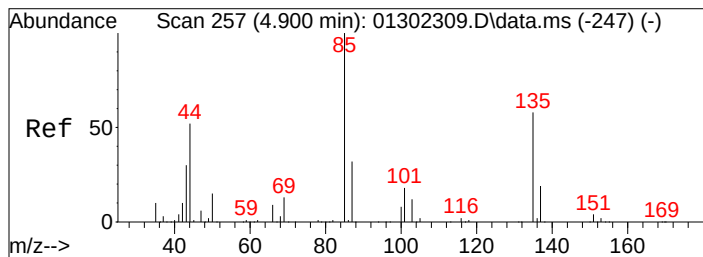
Tgt Ion:	85	Resp:	66468
Ion Ratio	Lower	Upper	
85	100		
87	32.2	12.1	52.1
101	9.5	0.0	29.3
103	5.9	0.0	26.0



#4
 Chloromethane
 Concen: 0.18 ng
 RT: 4.62 min Scan# 207
 Delta R.T. -0.011 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:54

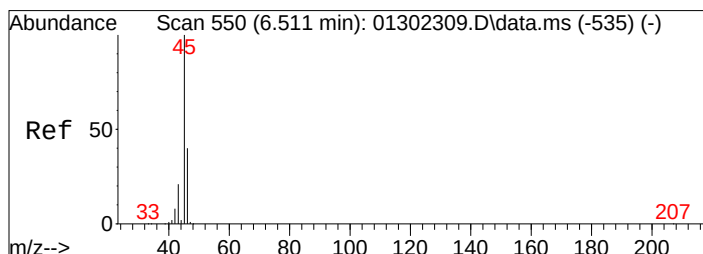
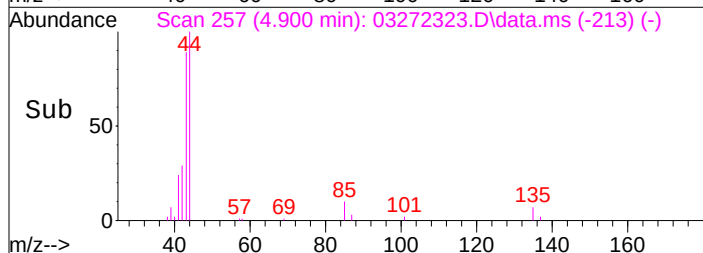
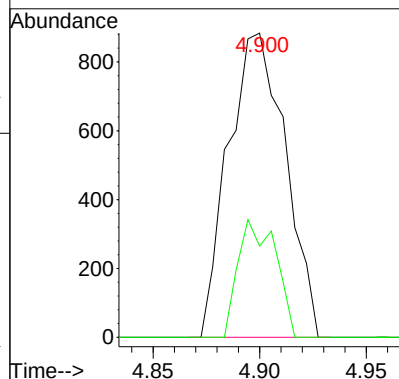
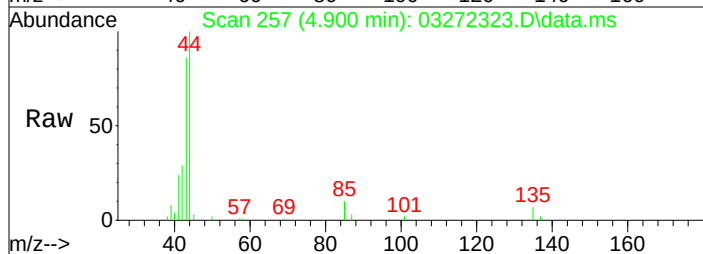
Tgt Ion:	50	Resp:	5841
Ion Ratio	Lower	Upper	
50	100		
52	27.1	12.2	52.2





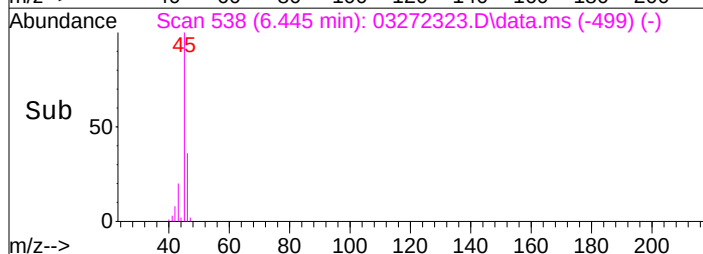
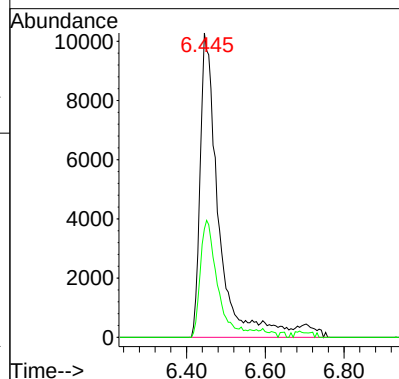
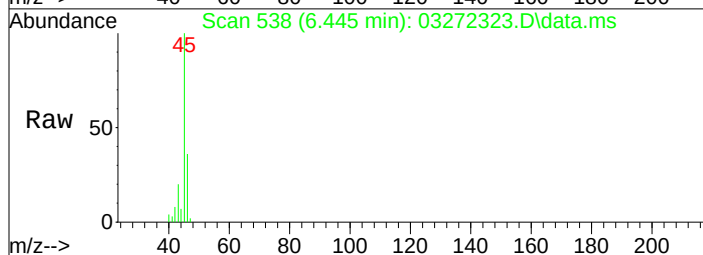
#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.09 ng
 RT: 4.90 min Scan# 257
 Delta R.T. -0.005 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:54

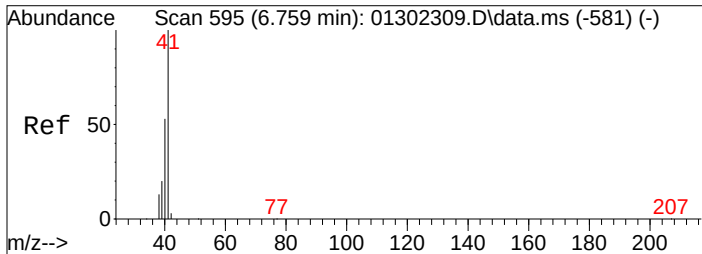
Tgt Ion: 135 Resp: 1644
 Ion Ratio Lower Upper
 135 100
 137 25.5 12.0 52.0



#10
 Ethanol
 Concen: 1.58 ng
 RT: 6.45 min Scan# 538
 Delta R.T. -0.033 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:54

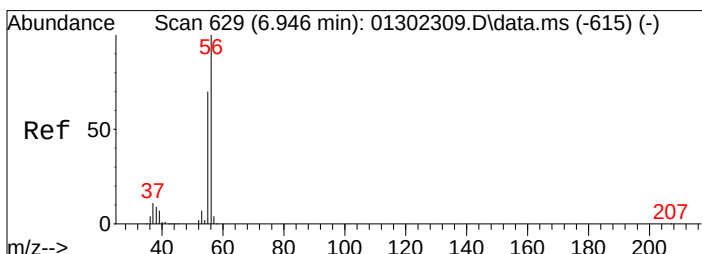
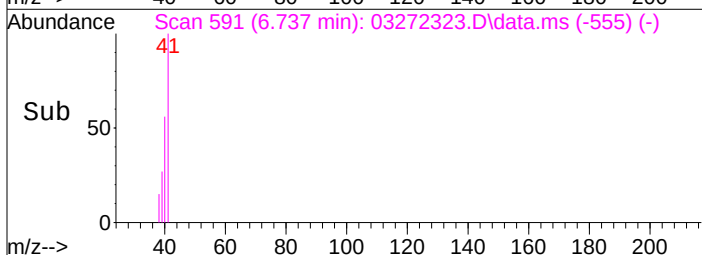
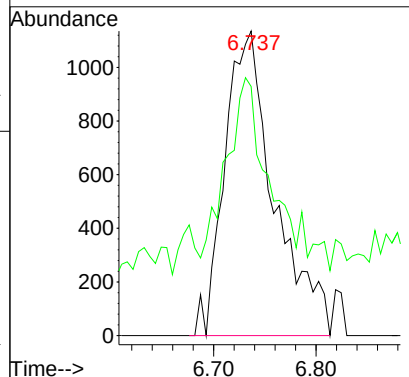
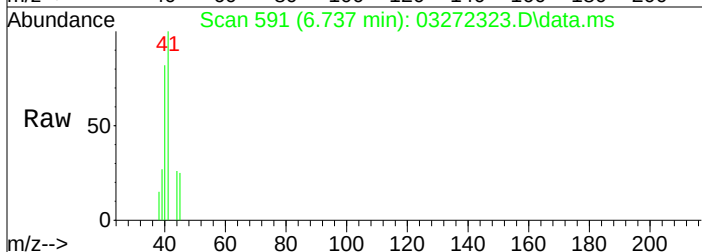
Tgt Ion: 45 Resp: 34417
 Ion Ratio Lower Upper
 45 100
 46 37.3 20.5 60.5





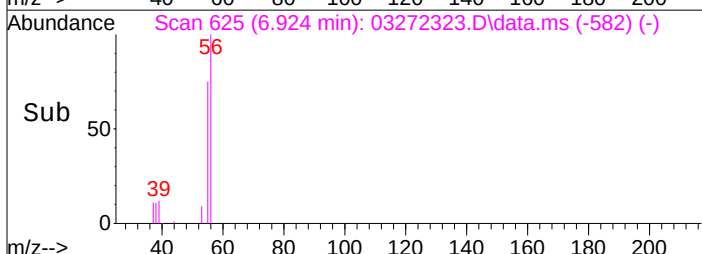
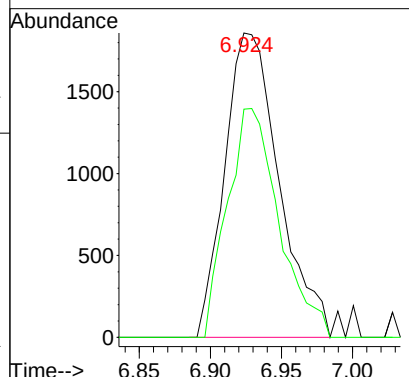
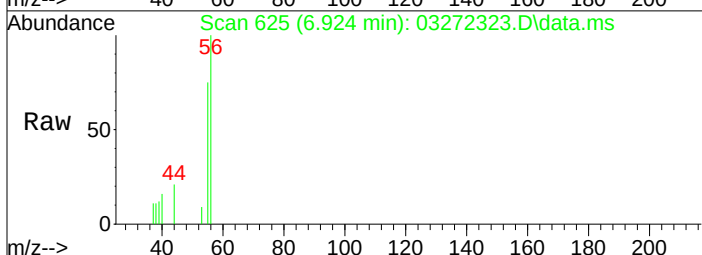
#11
Acetonitrile
Concen: 0.07 ng
RT: 6.74 min Scan# 591
Delta R.T. -0.000 min
Lab File: 03272323.D
Acq: 27 Mar 2023 17:54

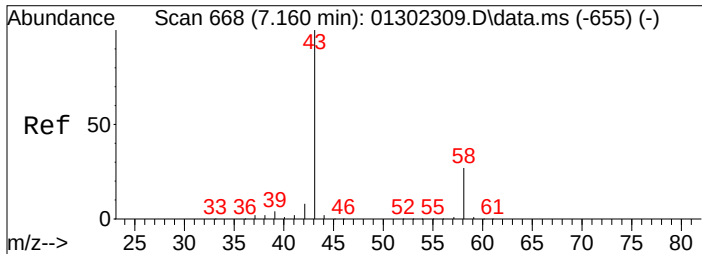
Tgt Ion: 41 Resp: 3818
Ion Ratio Lower Upper
41 100
40 59.8 32.4 72.4



#12
Acrolein
Concen: 0.32 ng
RT: 6.92 min Scan# 625
Delta R.T. -0.011 min
Lab File: 03272323.D
Acq: 27 Mar 2023 17:54

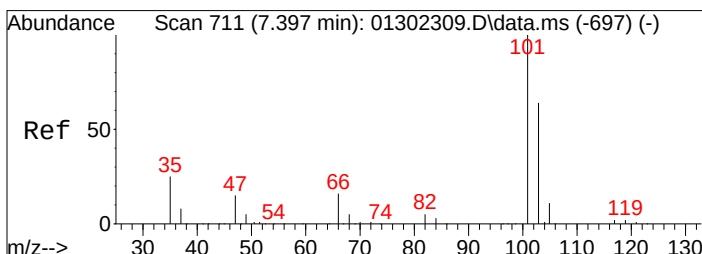
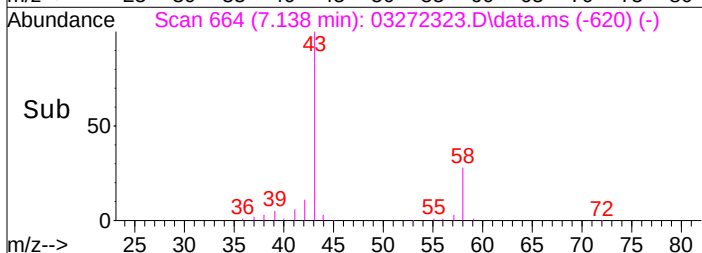
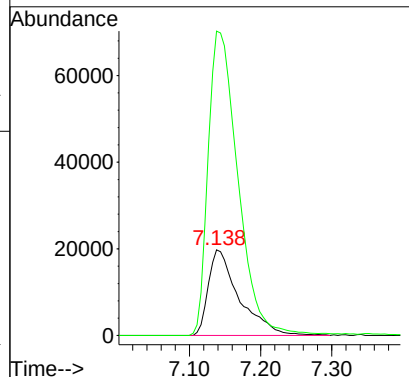
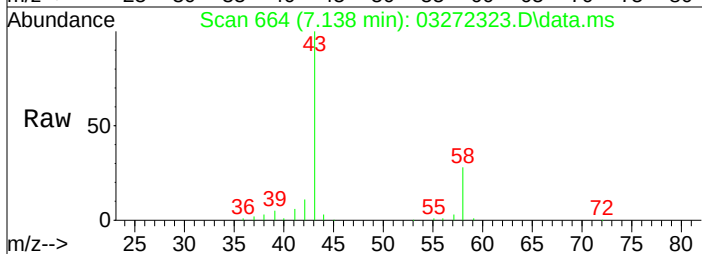
Tgt Ion: 56 Resp: 4945
Ion Ratio Lower Upper
56 100
55 71.3 49.9 89.9





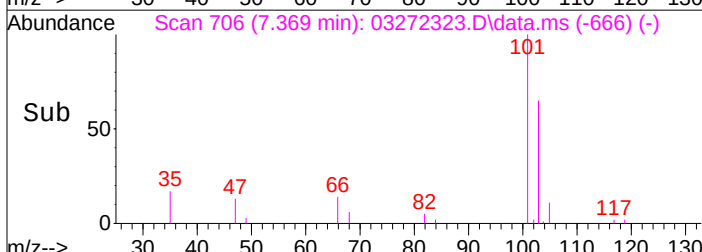
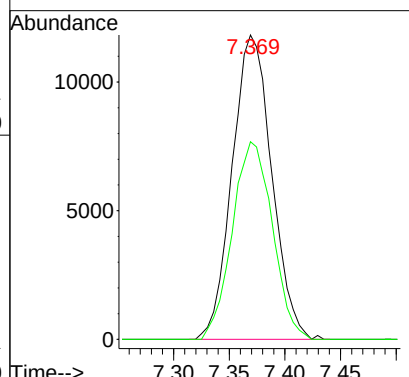
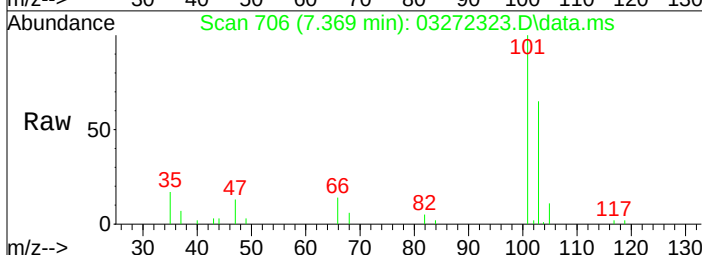
#13
 Acetone
 Concen: 3.61 ng
 RT: 7.14 min Scan# 664
 Delta R.T. -0.006 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:54

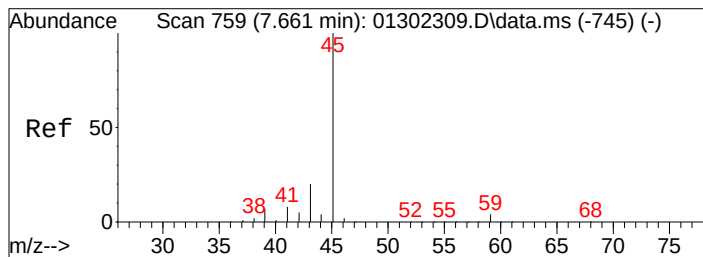
Tgt Ion	Resp	Lower	Upper
58	100		
43	343.0	298.5	358.5



#14
 Trichlorofluoromethane
 Concen: 0.94 ng
 RT: 7.37 min Scan# 706
 Delta R.T. -0.027 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:54

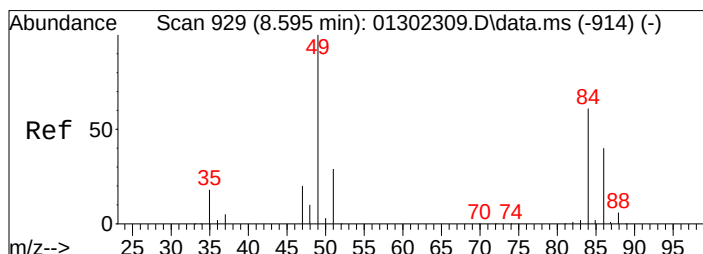
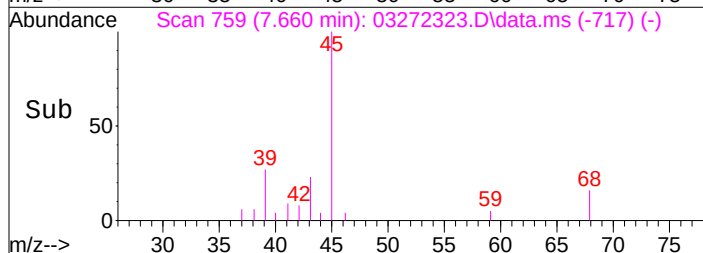
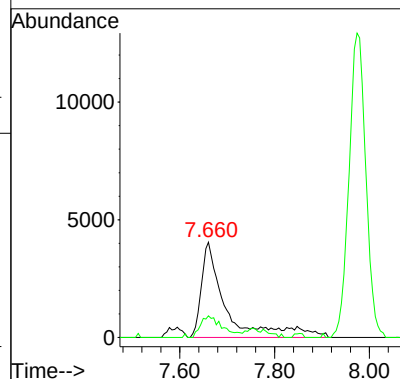
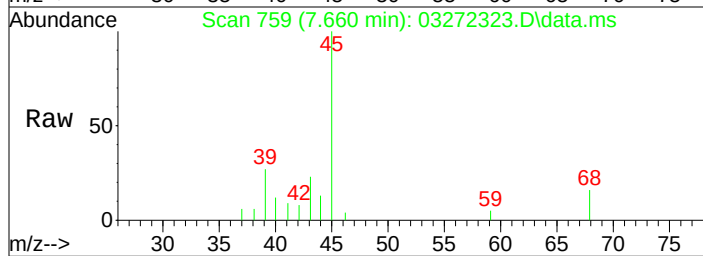
Tgt Ion	Resp	Lower	Upper
101	100		
103	65.7	44.8	84.8





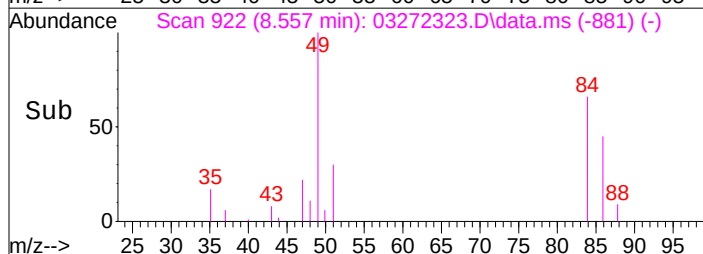
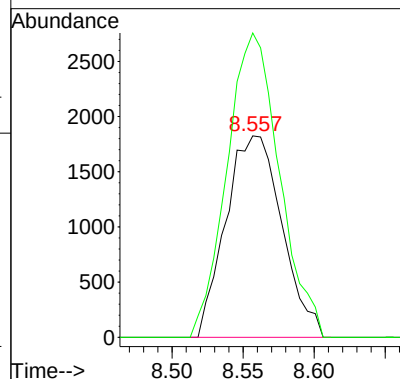
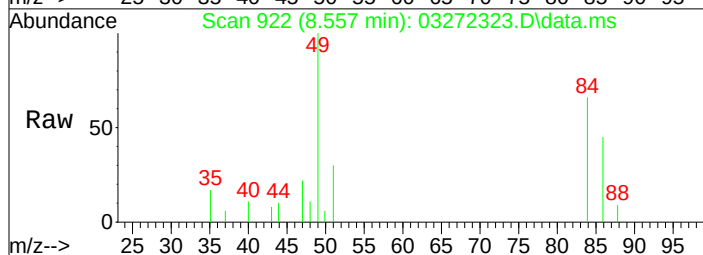
#15
2-Propanol (Isopropanol)
Concen: 0.25 ng
RT: 7.66 min Scan# 759
Delta R.T. -0.020 min
Lab File: 03272323.D
Acq: 27 Mar 2023 17:54

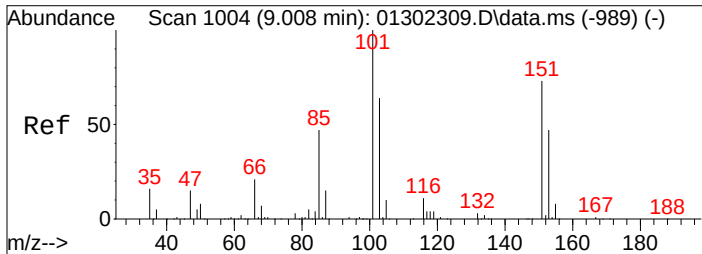
Tgt Ion: 45 Resp: 14506
Ion Ratio Lower Upper
45 100
43 28.6 0.0 37.9



#19
Methylene Chloride
Concen: 0.27 ng
RT: 8.56 min Scan# 922
Delta R.T. -0.022 min
Lab File: 03272323.D
Acq: 27 Mar 2023 17:54

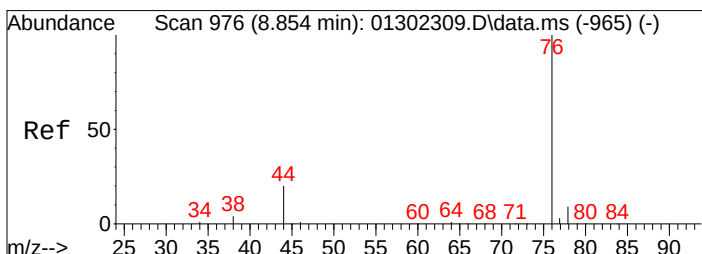
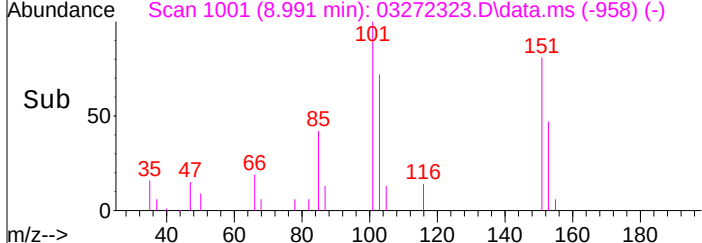
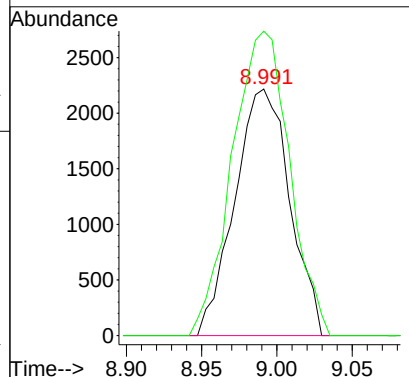
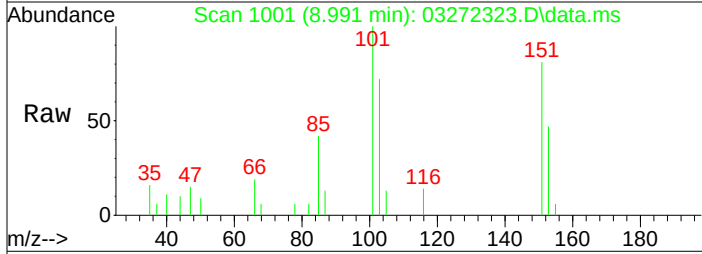
Tgt Ion: 84 Resp: 5017
Ion Ratio Lower Upper
84 100
49 141.1 135.0 185.0





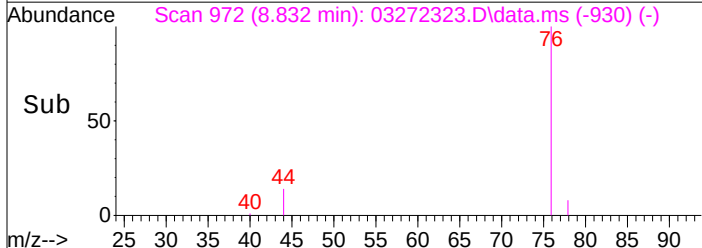
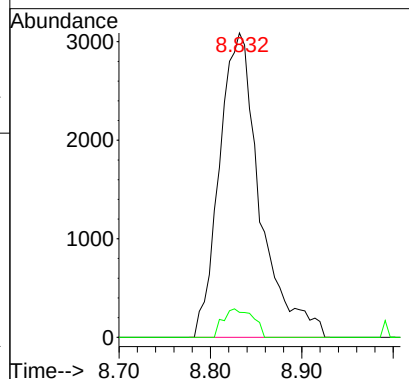
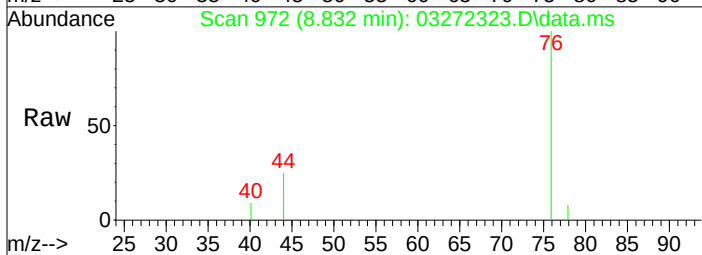
#21
 Trichlorotrifluoroethane
 Concen: 0.36 ng
 RT: 8.99 min Scan# 1001
 Delta R.T. -0.011 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:54

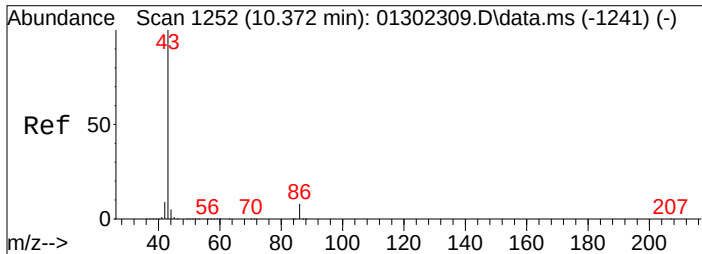
Tgt Ion: 151 Resp: 5639
 Ion Ratio Lower Upper
 151 100
 101 128.3 101.5 141.5



#22
 Carbon Disulfide
 Concen: 0.15 ng
 RT: 8.83 min Scan# 972
 Delta R.T. -0.016 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:54

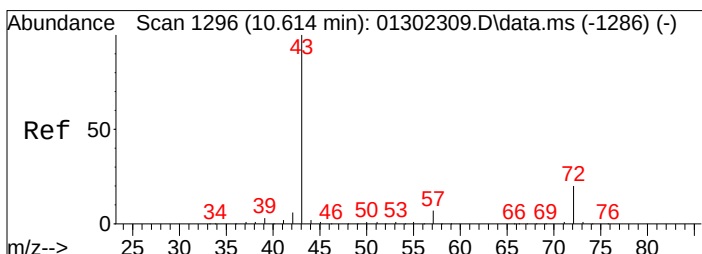
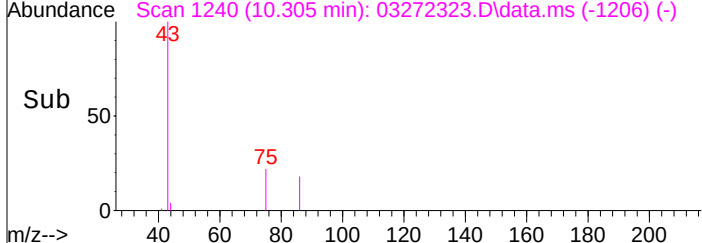
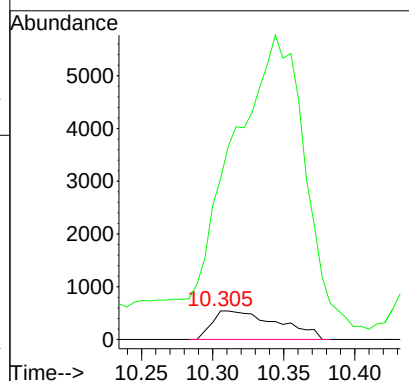
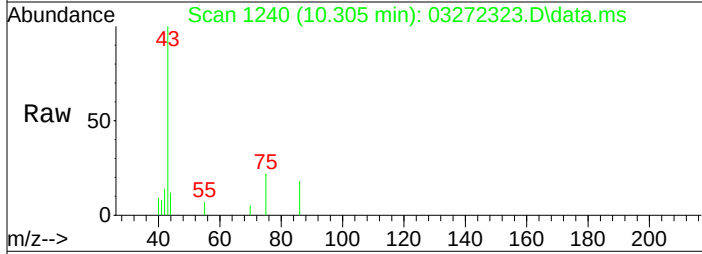
Tgt Ion: 76 Resp: 9527
 Ion Ratio Lower Upper
 76 100
 78 6.9 0.0 29.1





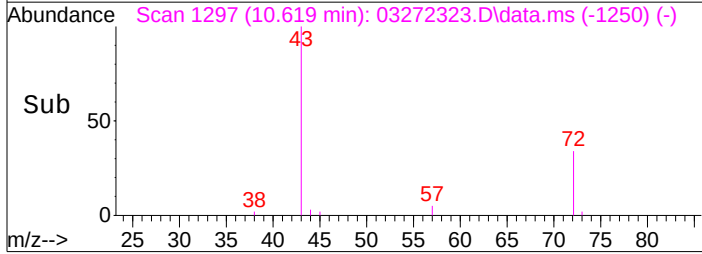
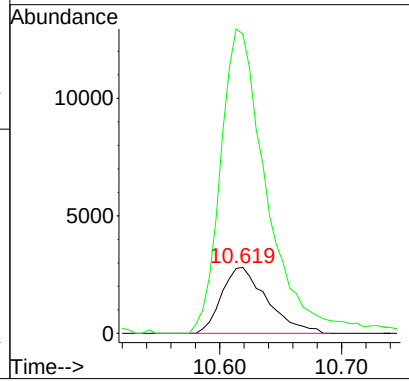
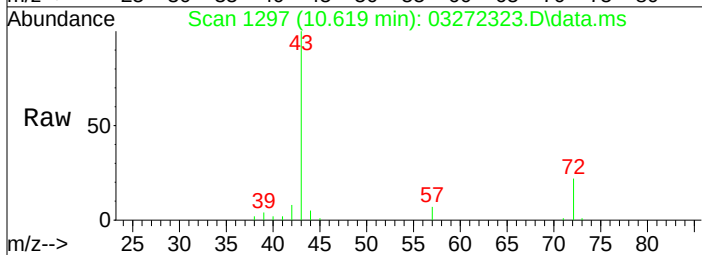
#26
 Vinyl Acetate
 Concen: 0.47 ng
 RT: 10.31 min Scan# 1240
 Delta R.T. -0.061 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:54

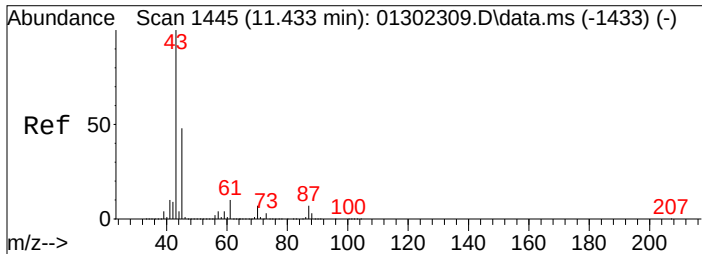
Tgt Ion: 86 Resp: 1748
 Ion Ratio Lower Upper
 86 100
 43 1133.4 1219.3 1259.3#



#27
 2-Butanone (MEK)
 Concen: 0.60 ng
 RT: 10.62 min Scan# 1297
 Delta R.T. 0.011 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:54

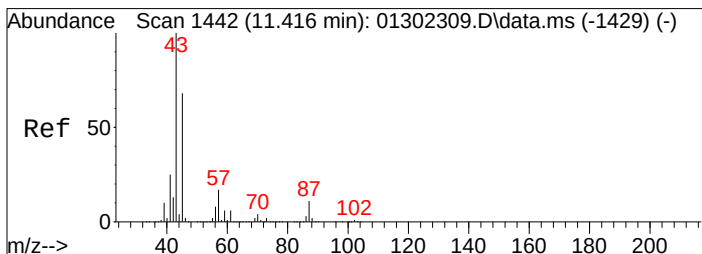
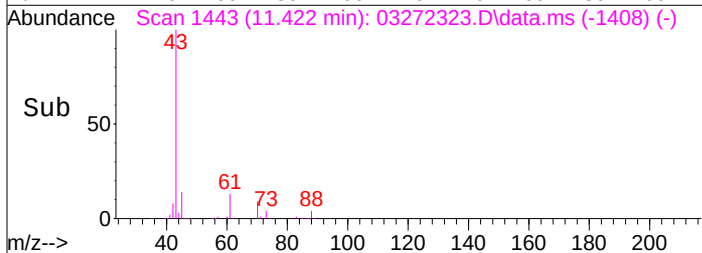
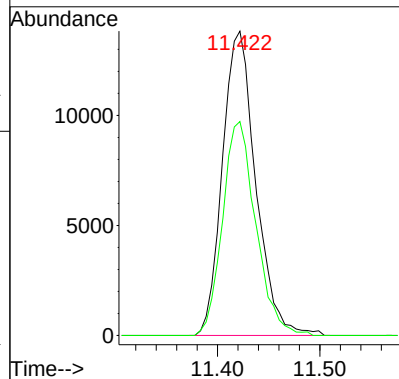
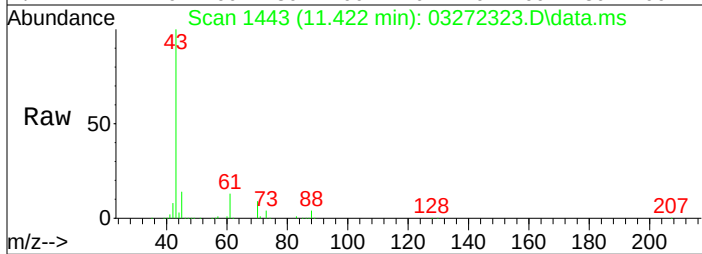
Tgt Ion: 72 Resp: 7274
 Ion Ratio Lower Upper
 72 100
 43 477.7 449.4 489.4





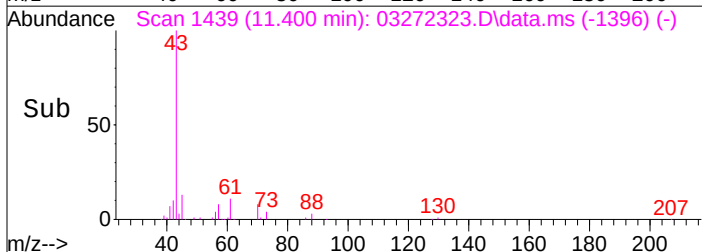
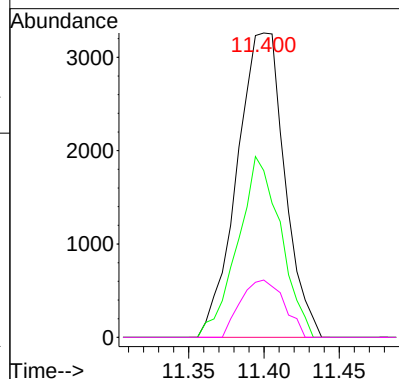
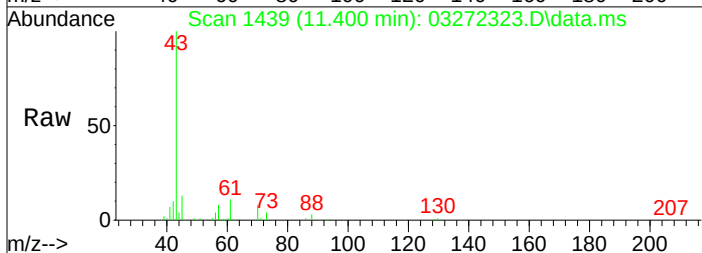
#30
Ethyl Acetate
Concen: 3.97 ng
RT: 11.42 min Scan# 1443
Delta R.T. -0.005 min
Lab File: 03272323.D
Acq: 27 Mar 2023 17:54

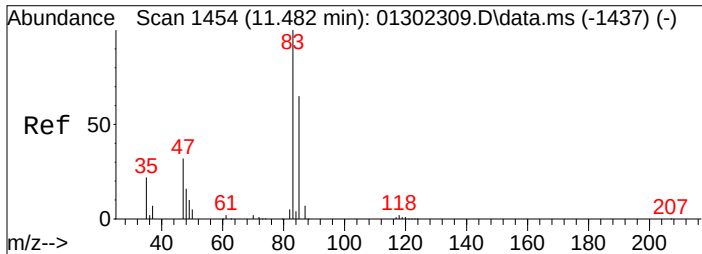
Tgt Ion: 61 Resp: 31326
Ion Ratio Lower Upper
61 100
70 70.2 52.8 92.8



#31
n-Hexane
Concen: 0.18 ng
RT: 11.40 min Scan# 1439
Delta R.T. -0.011 min
Lab File: 03272323.D
Acq: 27 Mar 2023 17:54

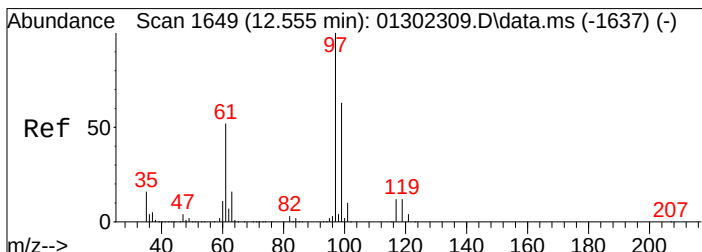
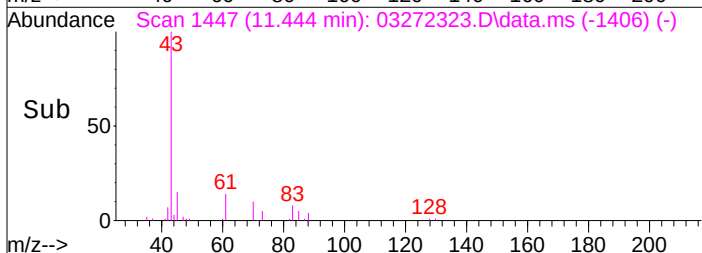
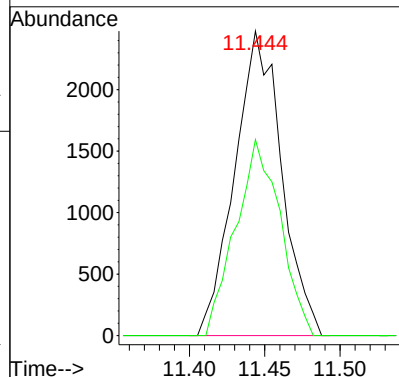
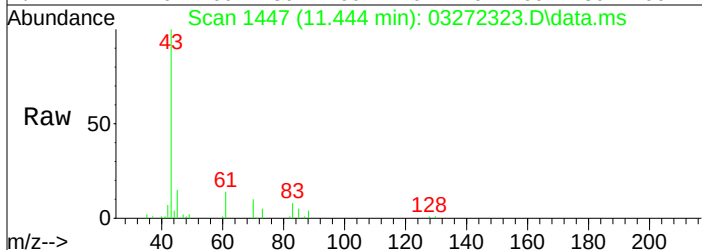
Tgt Ion: 57 Resp: 7187
Ion Ratio Lower Upper
57 100
56 53.4 39.9 59.9
86 17.1 12.3 18.5





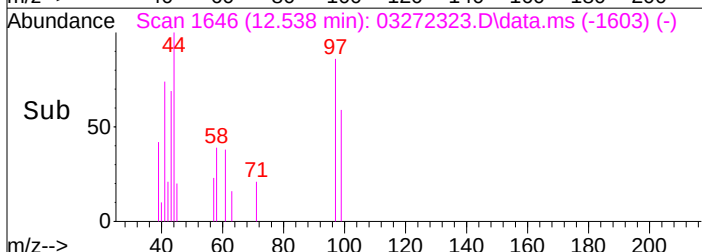
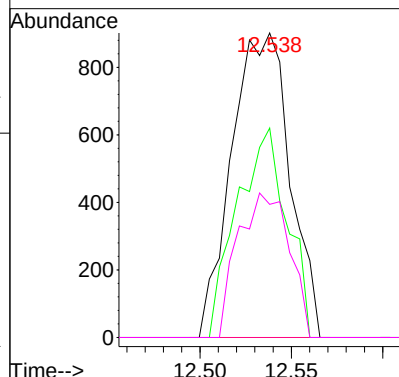
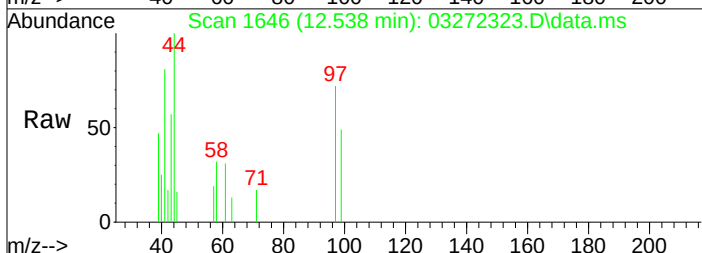
#32
 Chloroform
 Concen: 0.18 ng
 RT: 11.44 min Scan# 1447
 Delta R.T. -0.022 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:54

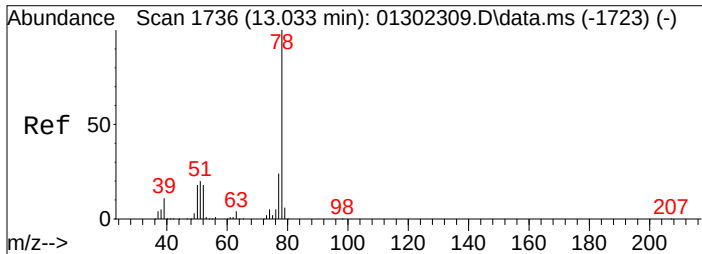
Tgt Ion:	83	Resp:	5351
Ion Ratio		Lower	Upper
83	100		
85	61.1	45.5	85.5



#38
 1,1,1-Trichloroethane
 Concen: 0.07 ng
 RT: 12.54 min Scan# 1646
 Delta R.T. -0.011 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:54

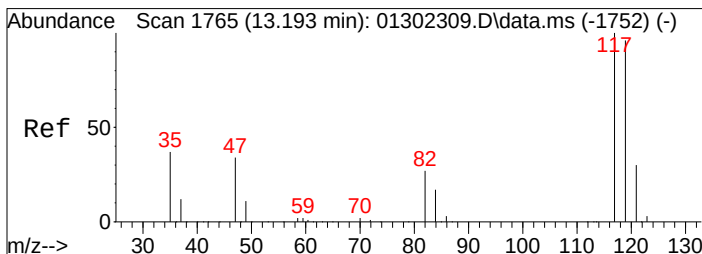
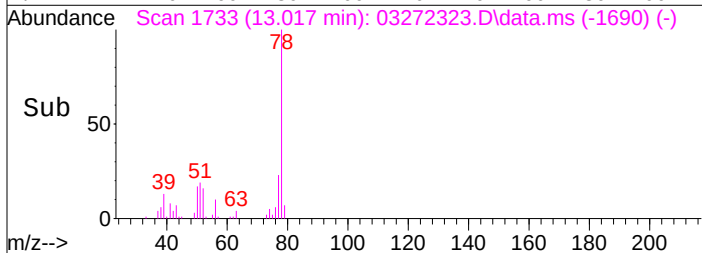
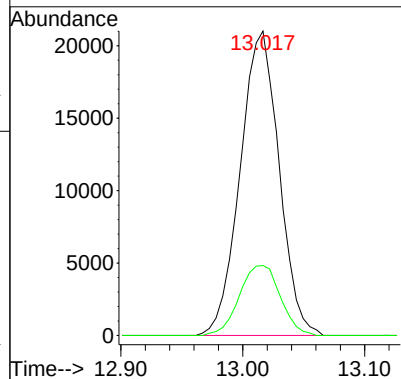
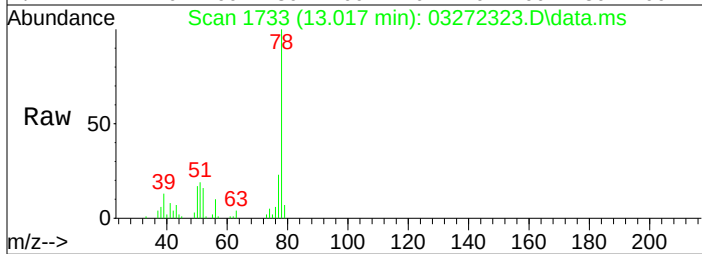
Tgt Ion:	97	Resp:	1998
Ion Ratio		Lower	Upper
97	100		
99	59.0	44.0	84.0
61	41.9	26.8	66.8





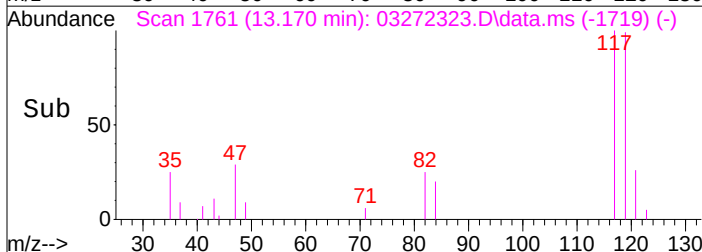
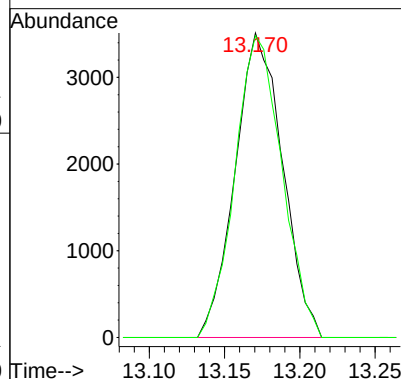
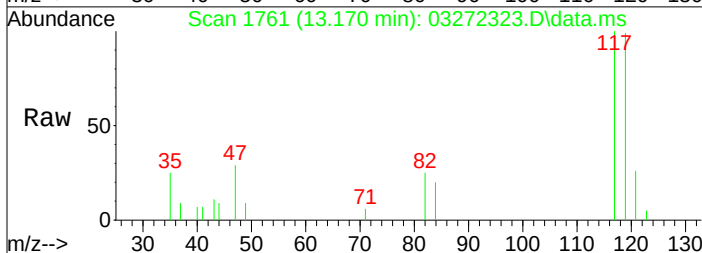
#41
Benzene
Concen: 0.64 ng
RT: 13.02 min Scan# 1733
Delta R.T. -0.011 min
Lab File: 03272323.D
Acq: 27 Mar 2023 17:54

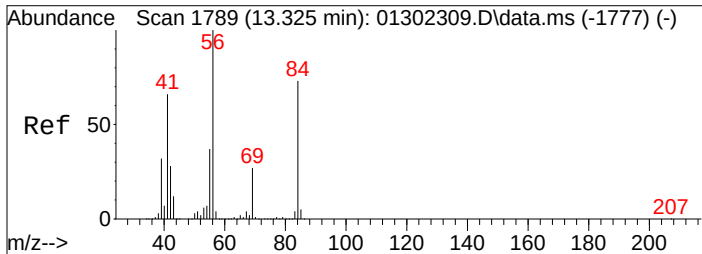
Tgt Ion: 78 Resp: 46572
Ion Ratio Lower Upper
78 100
77 24.2 3.3 43.3



#42
Carbon Tetrachloride
Concen: 0.33 ng
RT: 13.17 min Scan# 1761
Delta R.T. -0.016 min
Lab File: 03272323.D
Acq: 27 Mar 2023 17:54

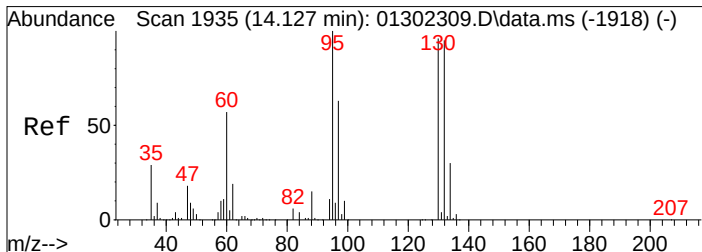
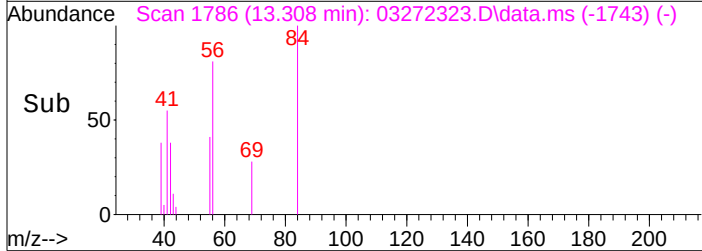
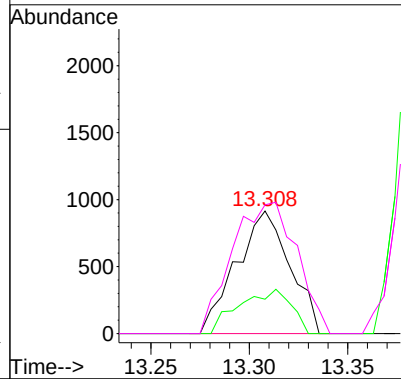
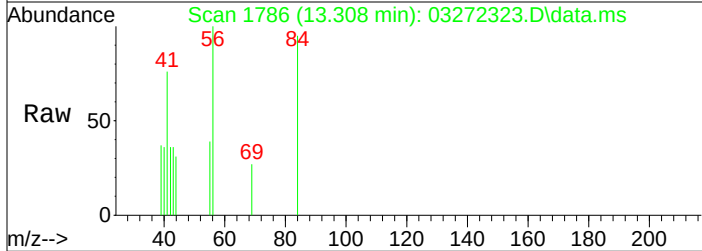
Tgt Ion: 117 Resp: 7696
Ion Ratio Lower Upper
117 100
119 98.3 76.2 116.2





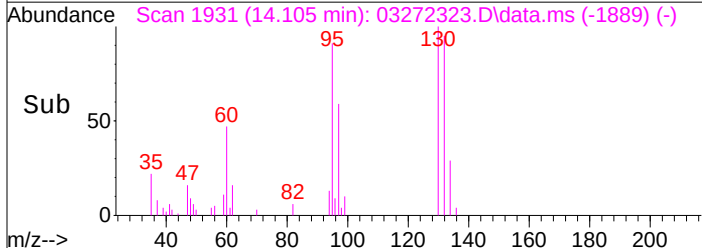
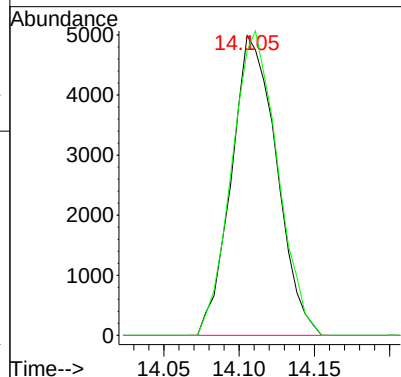
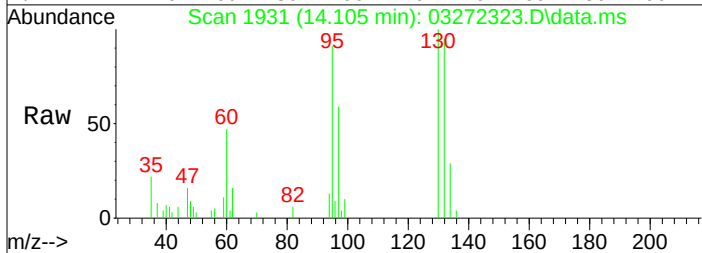
#43
Cyclohexane
Concen: 0.06 ng
RT: 13.31 min Scan# 1786
Delta R.T. -0.011 min
Lab File: 03272323.D
Acq: 27 Mar 2023 17:54

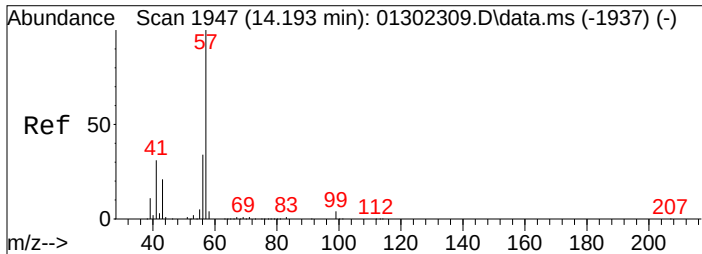
Tgt Ion:	84	Resp:	1735
Ion Ratio		Lower	Upper
84	100		
69	35.0	16.2	56.2
56	128.9	115.2	155.2



#47
Trichloroethene
Concen: 0.53 ng
RT: 14.11 min Scan# 1931
Delta R.T. -0.016 min
Lab File: 03272323.D
Acq: 27 Mar 2023 17:54

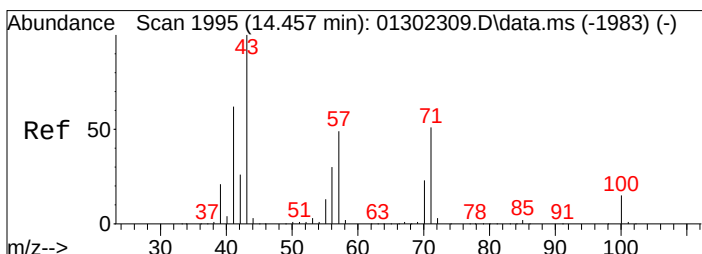
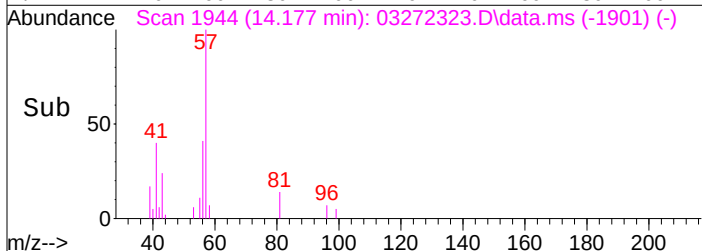
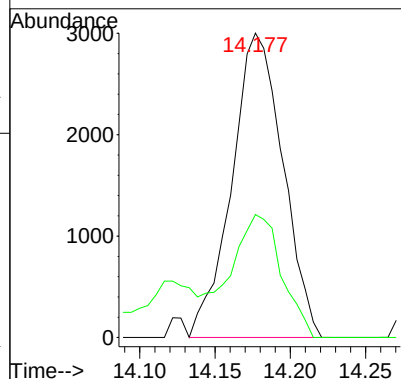
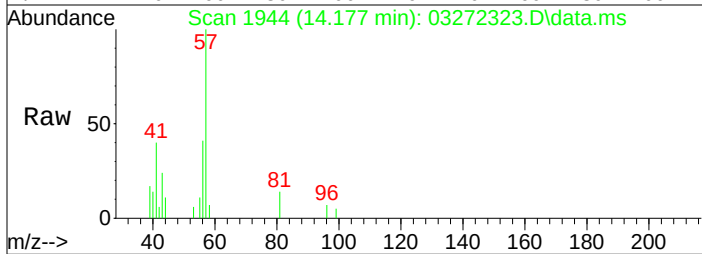
Tgt Ion:	130	Resp:	10409
Ion Ratio		Lower	Upper
130	100		
132	102.9	78.7	118.7





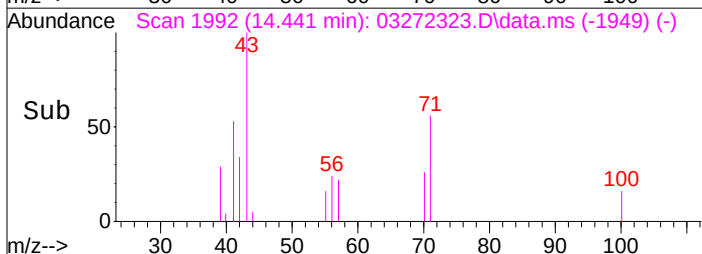
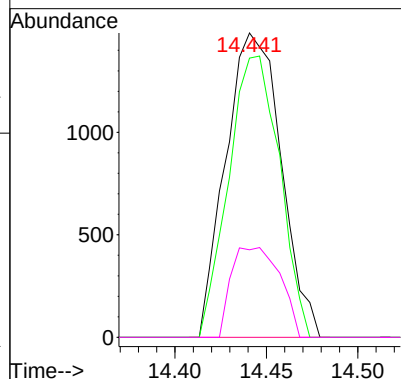
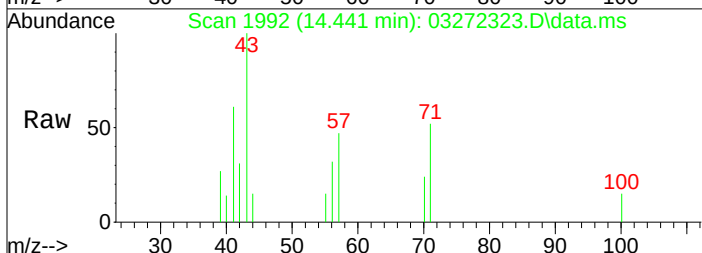
#49
 2,2,4-Trimethylpentane (Isooctane)
 Concen: 0.07 ng
 RT: 14.18 min Scan# 1944
 Delta R.T. -0.011 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:54

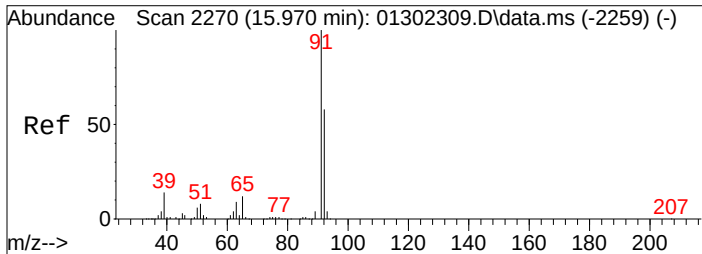
Tgt Ion: 57 Resp: 7085
 Ion Ratio Lower Upper
 57 100
 41 39.8 5.8 45.8



#51
 n-Heptane
 Concen: 0.15 ng
 RT: 14.44 min Scan# 1992
 Delta R.T. -0.011 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:54

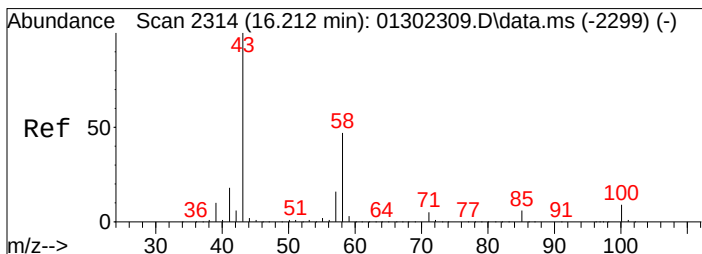
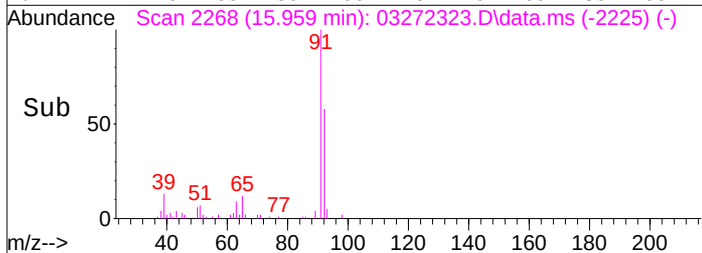
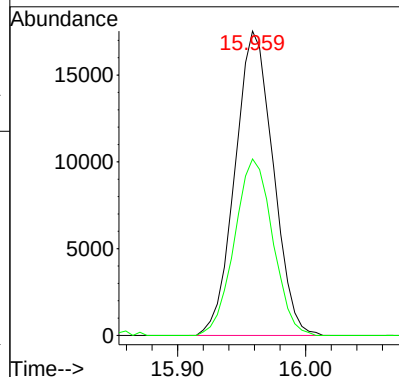
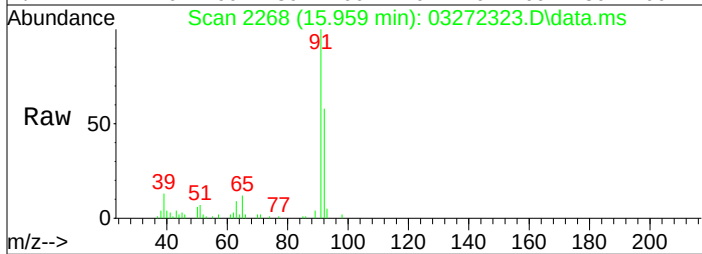
Tgt Ion: 71 Resp: 3126
 Ion Ratio Lower Upper
 71 100
 57 85.0 81.4 121.4
 100 26.0 11.8 51.8





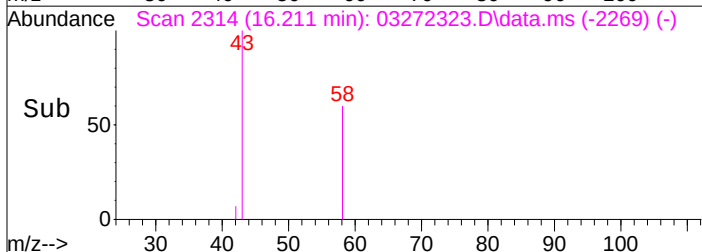
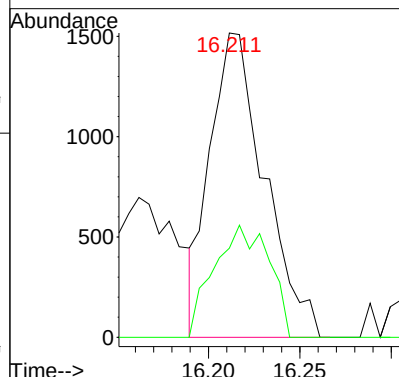
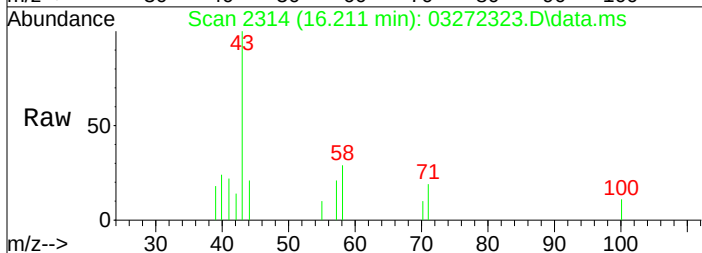
#58
Toluene
Concen: 0.43 ng
RT: 15.96 min Scan# 2268
Delta R.T. -0.011 min
Lab File: 03272323.D
Acq: 27 Mar 2023 17:54

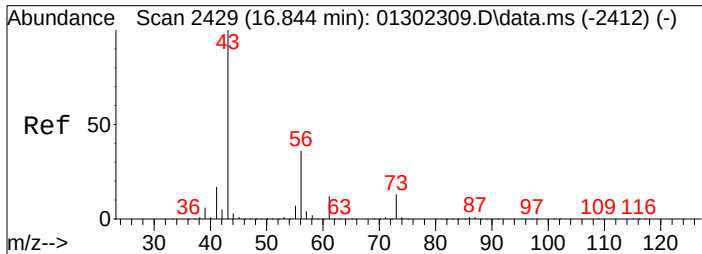
Tgt Ion: 91 Resp: 36259
Ion Ratio Lower Upper
91 100
92 58.2 39.8 79.8



#59
2-Hexanone
Concen: 0.07 ng
RT: 16.21 min Scan# 2314
Delta R.T. 0.000 min
Lab File: 03272323.D
Acq: 27 Mar 2023 17:54

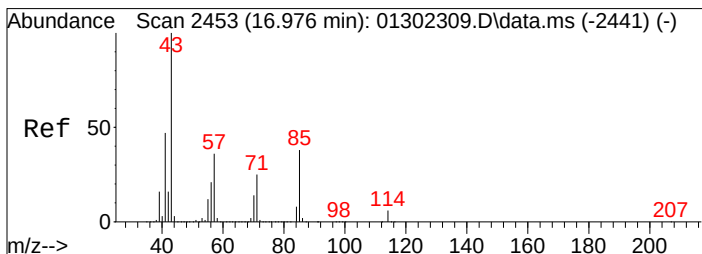
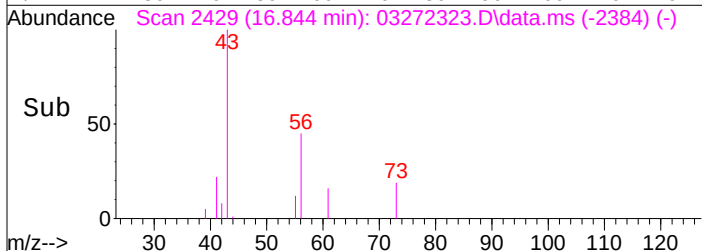
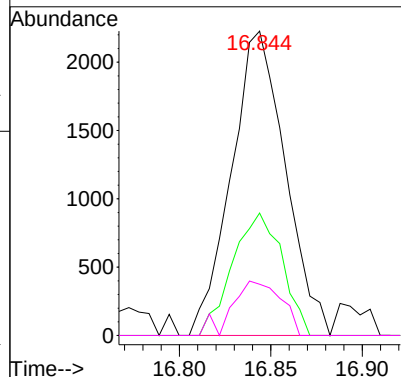
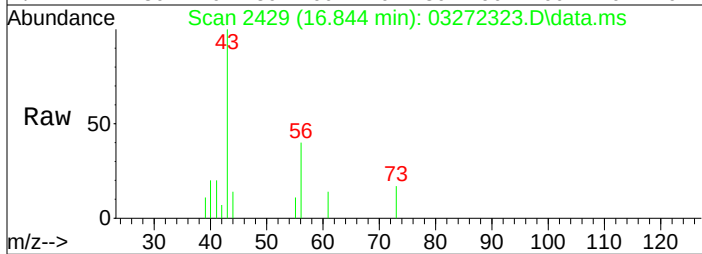
Tgt Ion: 43 Resp: 3149
Ion Ratio Lower Upper
43 100
58 37.2 32.3 72.3





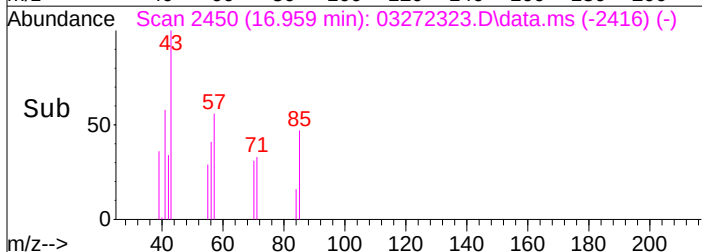
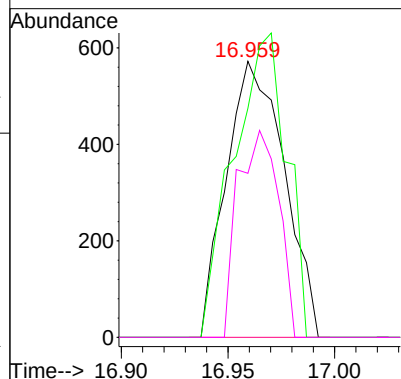
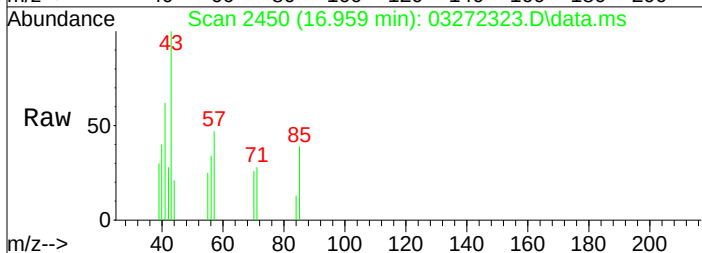
#62
n-Butyl Acetate
Concen: 0.09 ng
RT: 16.84 min Scan# 2429
Delta R.T. -0.000 min
Lab File: 03272323.D
Acq: 27 Mar 2023 17:54

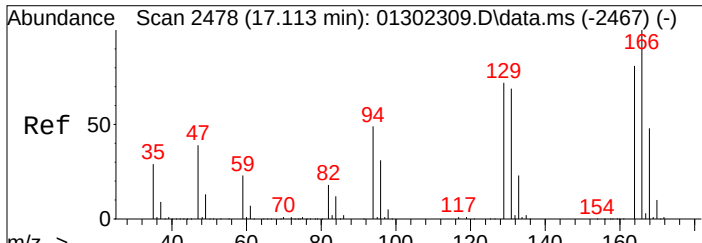
Tgt Ion:	43	Resp:	4581
Ion Ratio		Lower	Upper
43	100		
56	37.0	21.0	61.0
73	16.3	0.0	34.3



#63
n-Octane
Concen: 0.05 ng
RT: 16.96 min Scan# 2450
Delta R.T. -0.011 min
Lab File: 03272323.D
Acq: 27 Mar 2023 17:54

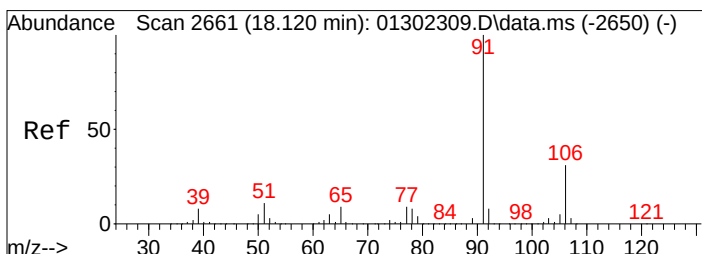
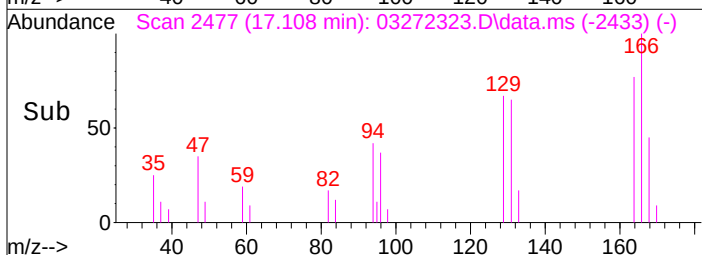
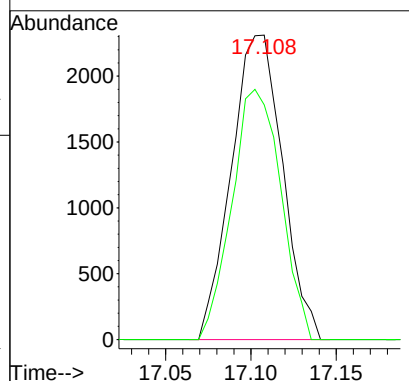
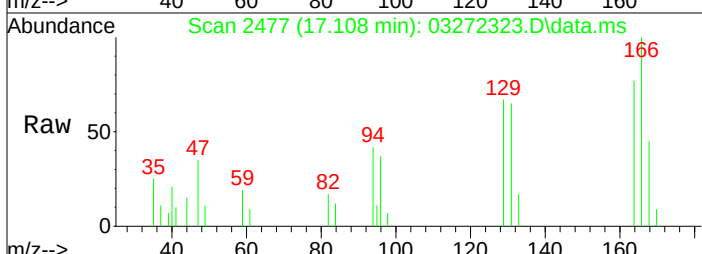
Tgt Ion:	57	Resp:	1083
Ion Ratio		Lower	Upper
57	100		
85	101.3	81.4	122.2
71	52.6	51.7	77.5





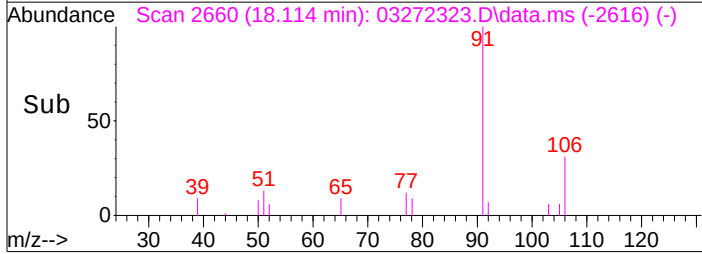
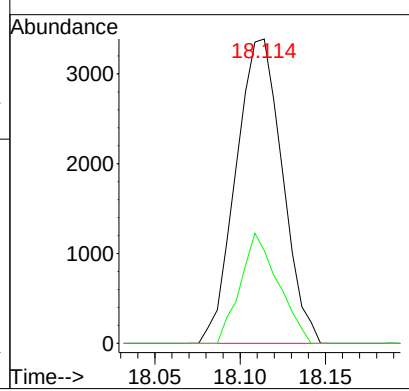
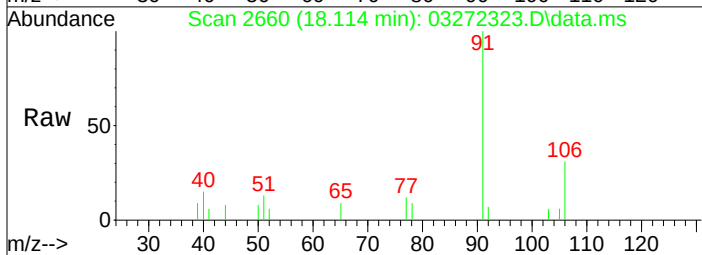
#64
 Tetrachloroethene
 Concen: 0.23 ng
 RT: 17.11 min Scan# 2477
 Delta R.T. -0.005 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:54

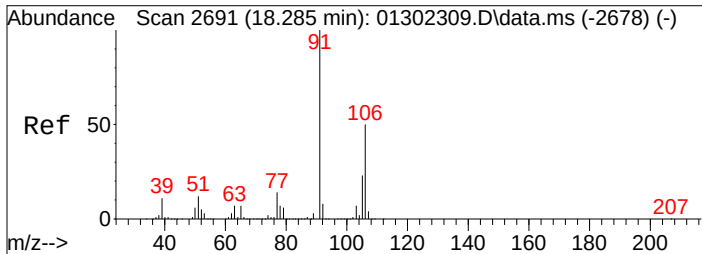
Tgt Ion: 166	Resp: 4827
Ion Ratio	Lower Upper
166	100
164	78.4 58.7 98.7



#66
 Ethylbenzene
 Concen: 0.07 ng
 RT: 18.11 min Scan# 2660
 Delta R.T. -0.005 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:54

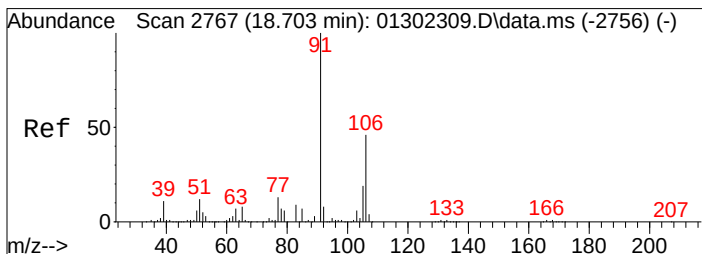
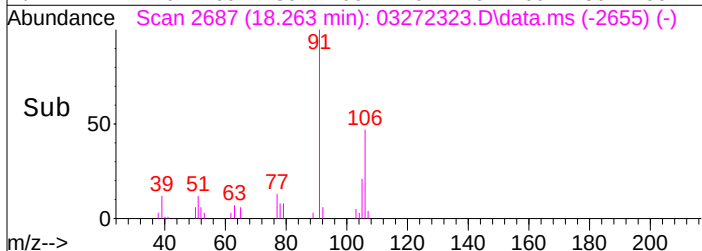
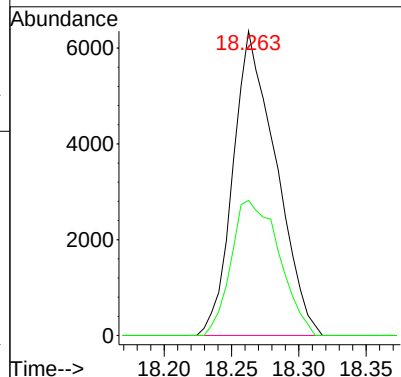
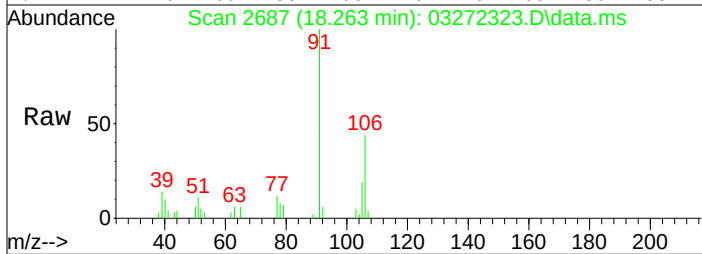
Tgt Ion: 91	Resp: 6407
Ion Ratio	Lower Upper
91	100
106	29.5 11.5 51.5





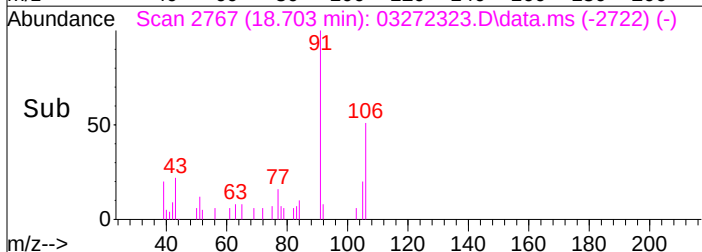
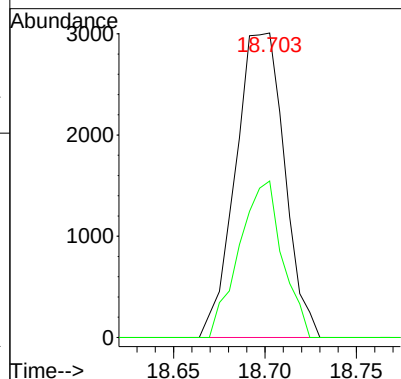
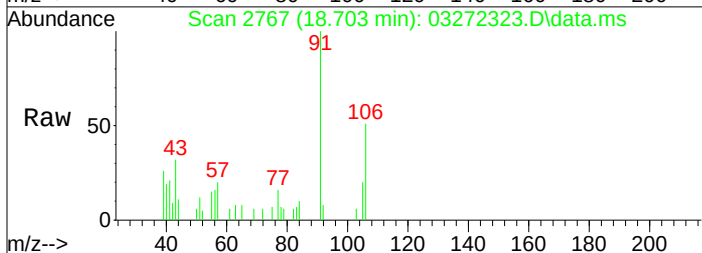
#67
 m- & p-Xylenes
 Concen: 0.19 ng
 RT: 18.26 min Scan# 2687
 Delta R.T. -0.022 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:54

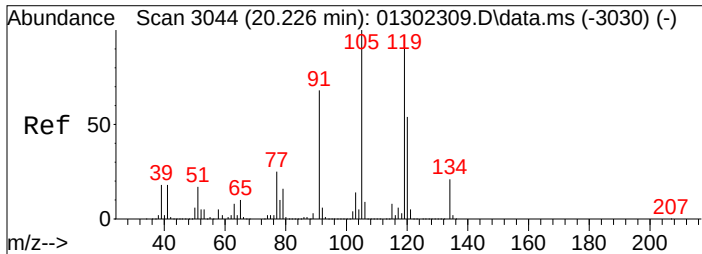
Tgt Ion:	91	Resp:	14059
Ion Ratio	Lower	Upper	
91	100		
106	49.7	29.2	69.2



#70
 o-Xylene
 Concen: 0.08 ng
 RT: 18.70 min Scan# 2767
 Delta R.T. 0.000 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:54

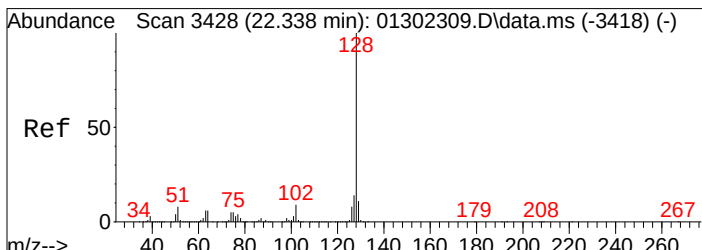
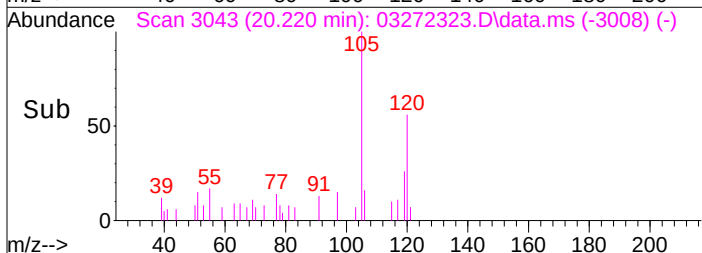
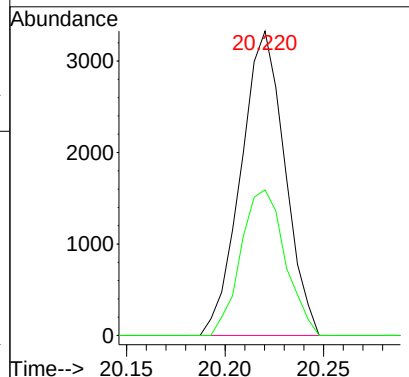
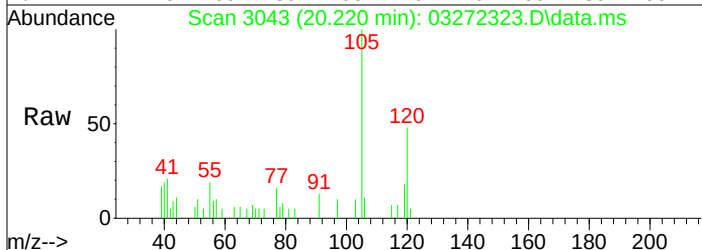
Tgt Ion:	91	Resp:	5585
Ion Ratio	Lower	Upper	
91	100		
106	45.5	27.3	67.3





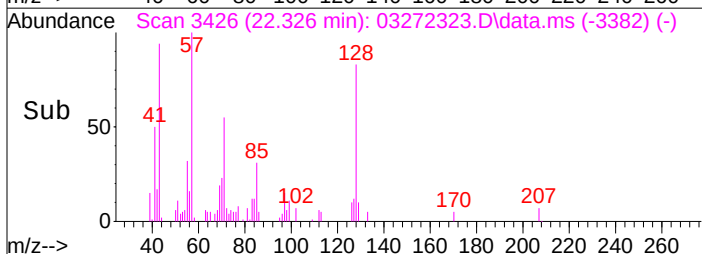
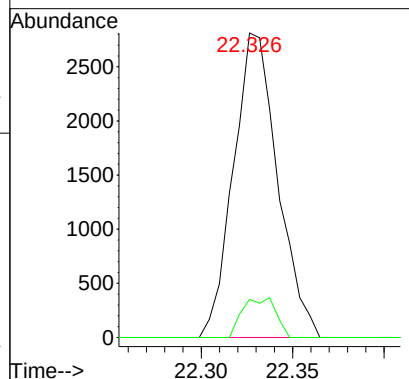
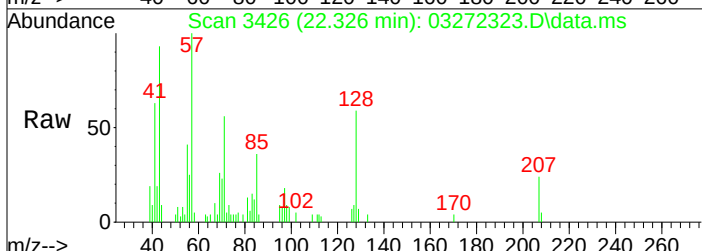
#82
 1,2,4-Trimethylbenzene
 Concen: 0.07 ng
 RT: 20.22 min Scan# 3043
 Delta R.T. -0.005 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:54

Tgt Ion:	105	Resp:	5169
Ion Ratio	Lower	Upper	
105	100		
120	48.1	37.2	77.2



#95
 Naphthalene
 Concen: 0.05 ng
 RT: 22.33 min Scan# 3426
 Delta R.T. -0.011 min
 Lab File: 03272323.D
 Acq: 27 Mar 2023 17:54

Tgt Ion:	128	Resp:	4732
Ion Ratio	Lower	Upper	
128	100		
129	9.8	0.0	31.0



Data File : I:\MS16\DATA\2023_03\27\03272323.D
 Acq On : 27 Mar 2023 17:54
 Sample : P2301250-036 (1000mL)
 Misc : S35-01312301

Vial: 5
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 19:40:26 2023
 Quant Method : I:\MS16\METHODS\C16122022.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Dec 21 05:02:49 2022
 Response via : Initial Calibration
 DataAcq Meth: T015B.M

3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.28	130	226715	12.500	ng	-0.02
16) 1,4-Difluorobenzene (C_2)	13.41	114	1030384	12.500	ng	-0.02
19) Chlorobenzene-d5 (C_3)	17.72	54	217973	12.500	ng	0.00

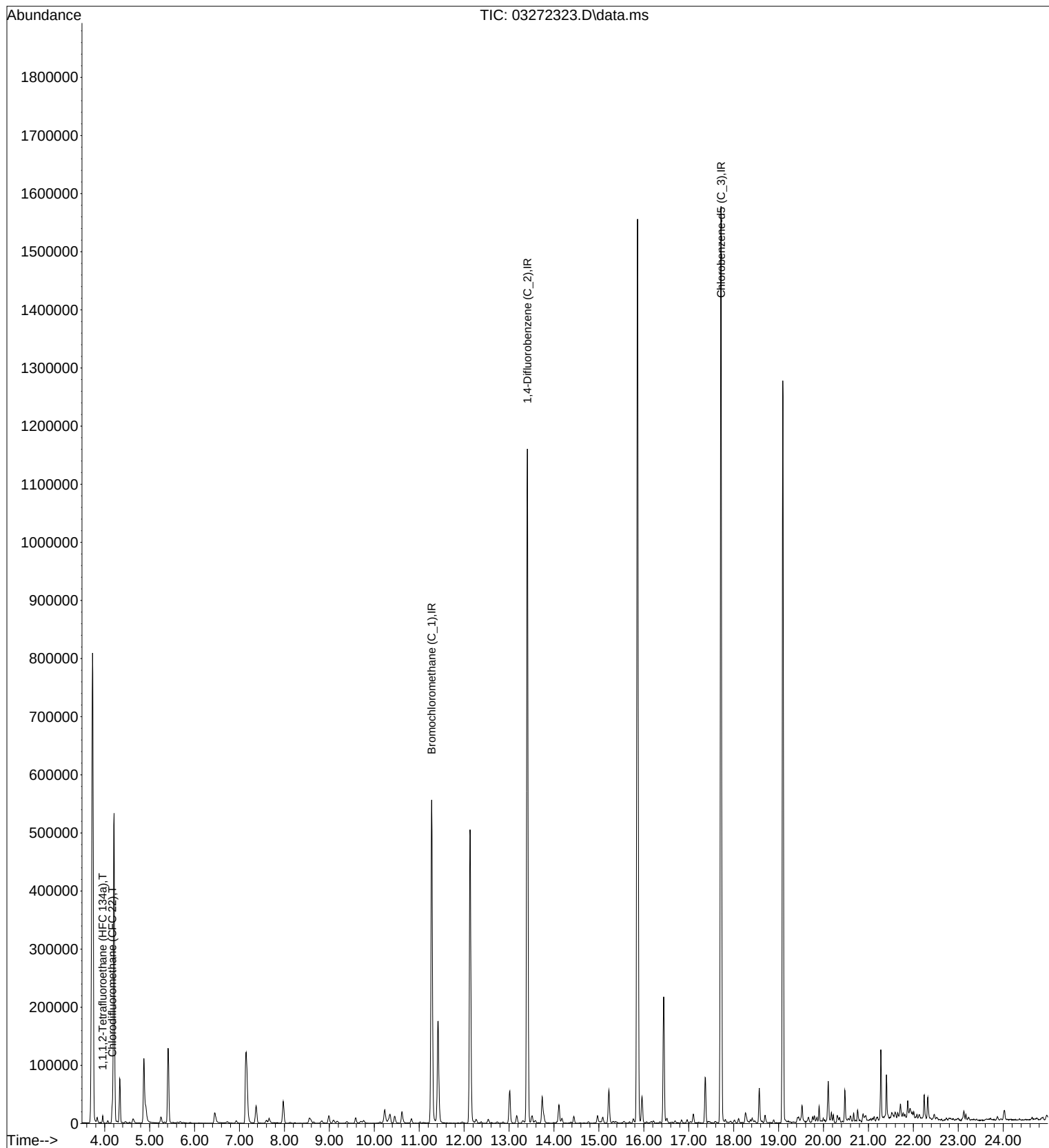
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.84	85	670	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.95	83	5653	0.315	ng	87
4) 1,1-Difluoroethane	4.07	65	1600	N.D.		
5) Chlorodifluoromethane ...	4.17	67	2557	0.456	ng	80
6) 1-Chloro-1,1-Difluoroe...	4.64	65	2834	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	8.60	43	8199	N.D.		
12) 2-Methylpentane	10.35	71	3730	N.D.		
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	13.17	84	1565	N.D.		
17) 2,3-Dimethylpentane	13.59	56	1832	N.D.		
18) Dibromomethane	13.83	174	275	N.D.		
20) Methyl Cyclohexane	15.09	55	3107	N.D.		
21) 1,3-Dichloropropane	0.00	76	0	N.D.	d	
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	17.93	91	534	N.D.		
24) 1,2,3-Trichloropropane	18.70	75	249	N.D.		
25) Bromobenzene	0.00	77	0	N.D.		
26) 2-Chlorotoluene	19.66	91	2685	N.D.		
27) 4-Chlorotoluene	19.75	91	505	N.D.		
28) Indane	20.76	117	659	N.D.		
29) Indene	20.86	115	50	N.D.		
30) 1,2,4,5-Tetramethylben...	21.61	119	2222	N.D.		
31) 1,2,3,4-Tetramethylben...	21.64	119	3757	N.D.		
32) 1,2,3,5-Tetramethylben...	21.99	119	2374	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\27\03272323.D
Acq On : 27 Mar 2023 17:54
Sample : P2301250-036 (1000mL)
Misc : S35-01312301

Vial: 5
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 19:40:26 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG6A-1

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-037

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02519

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.64 Final Pressure (psig): 3.71

Container Dilution Factor: 1.41

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.7	0.75	0.12	0.54	0.15	0.025	
74-87-3	Chloromethane	0.23	0.30	0.12	0.11	0.14	0.059	J, V
75-01-4	Vinyl Chloride	ND	0.16	0.080	ND	0.061	0.031	
74-83-9	Bromomethane	ND	0.30	0.10	ND	0.076	0.027	
75-00-3	Chloroethane	ND	0.30	0.093	ND	0.11	0.035	
67-64-1	Acetone	4.9	7.4	1.7	2.1	3.1	0.71	J
75-69-4	Trichlorofluoromethane	1.3	0.73	0.11	0.23	0.13	0.020	
75-35-4	1,1-Dichloroethene	ND	0.16	0.10	ND	0.039	0.026	
75-09-2	Methylene Chloride	2.3	0.75	0.21	0.67	0.22	0.061	
76-13-1	Trichlorotrifluoroethane	0.50	0.76	0.11	0.065	0.099	0.014	J
75-15-0	Carbon Disulfide	ND	1.5	0.23	ND	0.48	0.072	
156-60-5	trans-1,2-Dichloroethene	ND	0.16	0.10	ND	0.039	0.026	
75-34-3	1,1-Dichloroethane	ND	0.16	0.11	ND	0.038	0.027	
1634-04-4	Methyl tert-Butyl Ether	ND	0.76	0.089	ND	0.21	0.025	
78-93-3	2-Butanone (MEK)	0.64	1.5	0.16	0.22	0.50	0.053	J
156-59-2	cis-1,2-Dichloroethene	ND	0.16	0.11	ND	0.039	0.027	
67-66-3	Chloroform	ND	0.16	0.10	ND	0.032	0.021	
107-06-2	1,2-Dichloroethane	ND	0.16	0.083	ND	0.038	0.021	
71-55-6	1,1,1-Trichloroethane	ND	0.16	0.093	ND	0.028	0.017	
71-43-2	Benzene	0.54	0.16	0.11	0.17	0.049	0.034	
56-23-5	Carbon Tetrachloride	0.45	0.16	0.10	0.072	0.025	0.017	
110-82-7	Cyclohexane	ND	1.5	0.21	ND	0.43	0.061	
78-87-5	1,2-Dichloropropane	ND	0.16	0.093	ND	0.034	0.020	
75-27-4	Bromodichloromethane	ND	0.16	0.11	ND	0.023	0.016	
79-01-6	Trichloroethene	0.88	0.16	0.10	0.16	0.029	0.019	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG6A-1

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-037

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02519

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.64 Final Pressure (psig): 3.71

Container Dilution Factor: 1.41

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.76	0.12	ND	0.17	0.026	
108-10-1	4-Methyl-2-pentanone	ND	1.6	0.10	ND	0.38	0.025	
10061-02-6	trans-1,3-Dichloropropene	ND	0.72	0.16	ND	0.16	0.034	
79-00-5	1,1,2-Trichloroethane	ND	0.16	0.076	ND	0.028	0.014	
108-88-3	Toluene	0.71	0.75	0.092	0.19	0.20	0.024	J
591-78-6	2-Hexanone	ND	1.6	0.093	ND	0.38	0.023	
124-48-1	Dibromochloromethane	ND	0.16	0.099	ND	0.018	0.012	
106-93-4	1,2-Dibromoethane	ND	0.16	0.087	ND	0.020	0.011	
127-18-4	Tetrachloroethene	0.18	0.16	0.097	0.026	0.023	0.014	
108-90-7	Chlorobenzene	ND	0.75	0.10	ND	0.16	0.022	
100-41-4	Ethylbenzene	ND	0.75	0.11	ND	0.17	0.024	
179601-23-1	m,p-Xylenes	0.22	1.6	0.20	0.051	0.36	0.045	J
75-25-2	Bromoform	ND	0.76	0.16	ND	0.074	0.015	
100-42-5	Styrene	ND	0.75	0.12	ND	0.18	0.028	
95-47-6	o-Xylene	ND	0.75	0.11	ND	0.17	0.025	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	0.10	ND	0.023	0.015	
98-82-8	Cumene	ND	0.76	0.11	ND	0.15	0.022	
541-73-1	1,3-Dichlorobenzene	ND	0.75	0.11	ND	0.12	0.019	
106-46-7	1,4-Dichlorobenzene	ND	0.75	0.12	ND	0.12	0.019	
95-50-1	1,2-Dichlorobenzene	ND	0.76	0.11	ND	0.13	0.019	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.6	0.14	ND	0.16	0.015	
120-82-1	1,2,4-Trichlorobenzene	ND	1.6	0.18	ND	0.21	0.025	
79-20-9	Methyl Acetate	ND	0.71	0.34	ND	0.23	0.11	X
108-87-2	Methylcyclohexane	ND	0.71	0.37	ND	0.18	0.091	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS16\DATA\2023_03\27\03272322.D
 Acq On : 27 Mar 2023 17:20
 Sample : P2301250-037 (1000mL)
 Misc : S35-01312301

Vial: 14
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 19:29:24 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	235376	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	1067909	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.72	54	224607	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	398434	12.729	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	101.84%
57) Toluene-d8 (SS2)	15.86	98	1202757	12.232	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	97.84%
73) Bromofluorobenzene (SS3)	19.10	174	381271	12.432	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	99.44%

Target Compounds

						Qvalue
2) Propene	4.17	42	10897	0.343	ng	# 53
3) Dichlorodifluoromethan...	4.33	85	66273	1.884	ng	99
4) Chloromethane	4.62	50	5300	0.161	ng	94
5) 1,2-Dichloro-1,1,2,2-t...	4.89	135	1706	0.087	ng	84
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.32	54	436	N.D.		
8) Bromomethane	5.75	94	352	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.46	45	33533	1.480	ng	98
11) Acetonitrile	6.73	41	4017	0.071	ng	89
12) Acrolein	6.93	56	2647	0.165	ng	98
13) Acetone	7.15	58	60614	3.499	ng	# 63
14) Trichlorofluoromethane	7.37	101	30299	0.934	ng	99
15) 2-Propanol (Isopropanol)	7.66	45	29012	0.481	ng	87
16) Acrylonitrile	7.90	53	393	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.		
19) Methylene Chloride	8.55	84	31499	1.645	ng	87
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	8.99	151	5692	0.352	ng	90
22) Carbon Disulfide	8.82	76	4307	0.063	ng	86
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	10.09	63	176	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	10.62	72	5664	0.451	ng	97
28) cis-1,2-Dichloroethene	11.10	61	311	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	11.42	61	28945	3.524	ng	97
31) n-Hexane	11.40	57	5656	0.138	ng	98
32) Chloroform	11.45	83	2002	0.064	ng	94
34) Tetrahydrofuran (THF)	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	12.26	62	1316	0.052	ng	83
38) 1,1,1-Trichloroethane	12.54	97	1726	0.060	ng	99
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.02	78	28999	0.386	ng	98
42) Carbon Tetrachloride	13.18	117	7868	0.322	ng	99
43) Cyclohexane	13.31	84	1680	0.053	ng	97
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	13.87	63	327	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	14.11	130	12709	0.621	ng	99
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	14.18	57	6352	0.063	ng	74
50) Methyl Methacrylate	14.33	100	160	N.D.		

Data File : I:\MS16\DATA\2023_03\27\03272322.D
 Acq On : 27 Mar 2023 17:20
 Sample : P2301250-037 (1000mL)
 Misc : S35-01312301

Vial: 14
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 19:29:24 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.44	71	2345	0.106	ng	94
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	15.03	58	519	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.96	91	43338	0.503	ng	98
59) 2-Hexanone	16.22	43	2082	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.84	43	3318	0.064	ng	93
63) n-Octane	16.97	57	947	N.D.		
64) Tetrachloroethene	17.11	166	2771	0.126	ng	94
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	18.11	91	6061	0.062	ng	97
67) m- & p-Xylenes	18.27	91	12003	0.156	ng	99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.60	104	608	N.D.		
70) o-Xylene	18.70	91	5017	0.066	ng	97
71) n-Nonane	18.89	43	2775	0.051	ng	86
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	19.21	105	785	N.D.		
75) alpha-Pinene	19.57	93	1067	N.D.		
76) n-Propylbenzene	19.66	91	1290	N.D.		
77) 3-Ethyltoluene	20.22	105	3021	No Calib	#	
78) 4-Ethyltoluene	19.79	105	1015	N.D.		
79) 1,3,5-Trimethylbenzene	19.86	105	1109	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.22	105	3021	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.22	105	3021	N.D.		
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
86) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
87) sec-Butylbenzene	20.45	105	255	N.D.		
88) 4-Isopropyltoluene (p-...	20.59	119	1856	N.D.		
89) 1,2,3-Trimethylbenzene	20.22	105	3021	No Calib	#	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	20.72	68	938	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	21.40	58	179	No Calib	#	
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	22.34	128	511	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	18.20	55	363	No Calib	#	
99) tert-Butylbenzene	20.21	119	418	N.D.		
100) n-Butylbenzene	20.95	91	609	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Vial: 14
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 19:29:24 2023

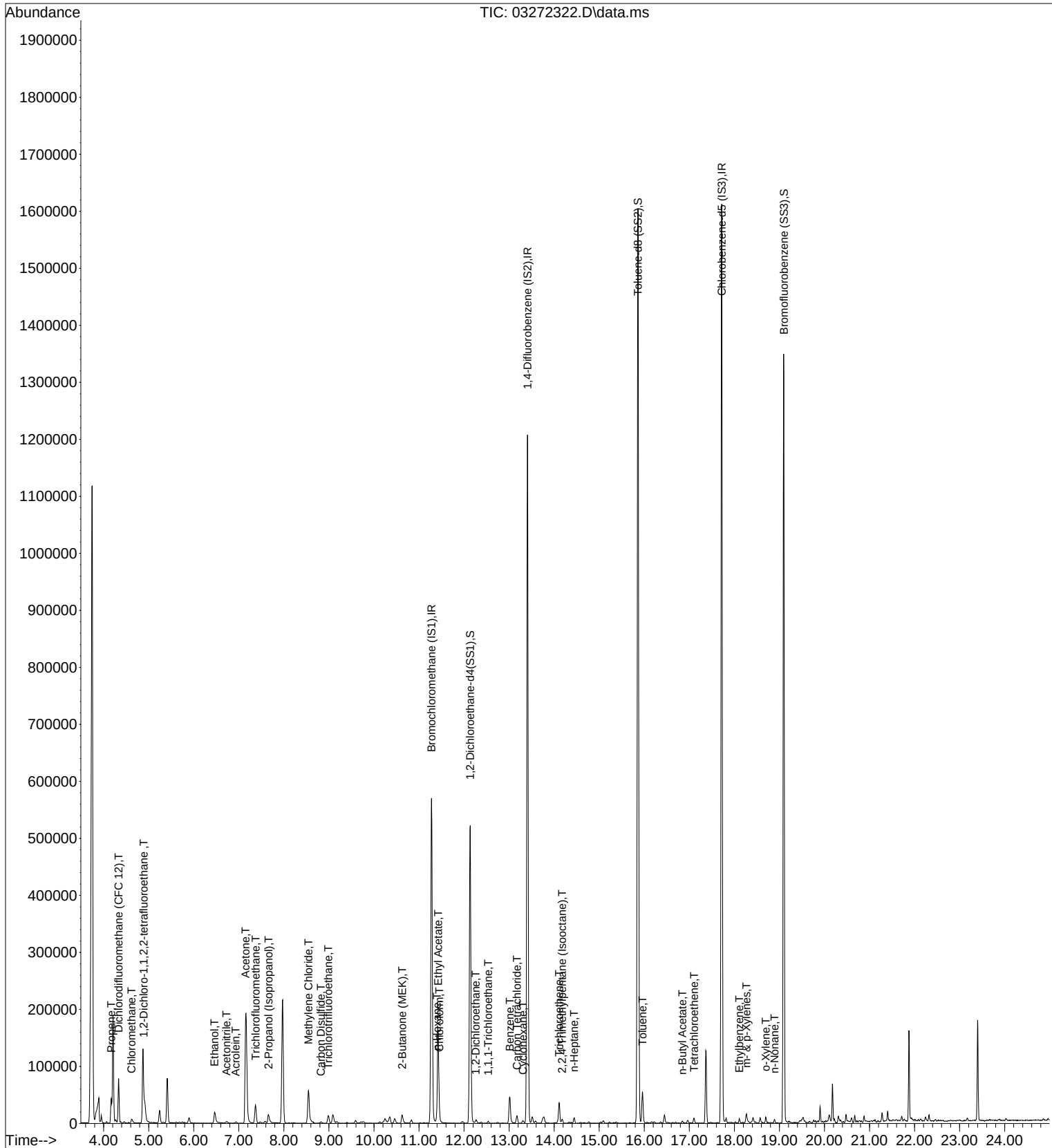
Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA T0-15 per SOP V0A-T015 (CASS T0-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M



Data File : I:\MS16\DATA\2023_03\27\03272322.D
 Acq On : 27 Mar 2023 17:20
 Sample : P2301250-037 (1000mL)
 Misc : S35-01312301

Vial: 14
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 19:29:24 2023

3/27/23

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:TO15B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	235376	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	1067909	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.72	54	224607	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	398434	12.729	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	101.84%
57) Toluene-d8 (SS2)	15.86	98	1202757	12.232	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	97.84%
73) Bromofluorobenzene (SS3)	19.10	174	381271	12.432	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	99.44%

Target Compounds

						Qvalue
2) Propene	4.17	42	10897	0.343	ng	# 53
3) Dichlorodifluoromethan...	4.33	85	66273	1.884	ng	99
4) Chloromethane	4.62	50	5300	0.161	ng	94
5) 1,2-Dichloro-1,1,2,2-t...	4.89	135	1706	0.087	ng	84
10) Ethanol	6.46	45	33533	1.480	ng	98
11) Acetonitrile	6.73	41	4017	0.071	ng	89
12) Acrolein	6.93	56	2647	0.165	ng	98
13) Acetone	7.15	58	60614	3.499	ng	# 63
14) Trichlorofluoromethane	7.37	101	30299	0.934	ng	99
15) 2-Propanol (Isopropanol)	7.66	45	29012	0.481	ng	87
19) Methylene Chloride	8.55	84	31499	1.645	ng	87
21) Trichlorotrifluoroethane	8.99	151	5692	0.352	ng	90
22) Carbon Disulfide	8.82	76	4307	0.063	ng	86
27) 2-Butanone (MEK)	10.62	72	5664	0.451	ng	97
30) Ethyl Acetate	11.42	61	28945	3.524	ng	97
31) n-Hexane	11.40	57	5656	0.138	ng	98
32) Chloroform	11.45	83	2002	0.064	ng	94
36) 1,2-Dichloroethane	12.26	62	1316	0.052	ng	83
38) 1,1,1-Trichloroethane	12.54	97	1726	0.060	ng	99
41) Benzene	13.02	78	28999	0.386	ng	98
42) Carbon Tetrachloride	13.18	117	7868	0.322	ng	99
43) Cyclohexane	13.31	84	1680	0.053	ng	97
47) Trichloroethene	14.11	130	12709	0.621	ng	99
49) 2,2,4-Trimethylpentane...	14.18	57	6352	0.063	ng	74
51) n-Heptane	14.44	71	2345	0.106	ng	94
58) Toluene	15.96	91	43338	0.503	ng	98
62) n-Butyl Acetate	16.84	43	3318	0.064	ng	93
64) Tetrachloroethene	17.11	166	2771	0.126	ng	94
66) Ethylbenzene	18.11	91	6061	0.062	ng	97
67) m- & p-Xylenes	18.27	91	12003	0.156	ng	99
70) o-Xylene	18.70	91	5017	0.066	ng	97
71) n-Nonane	18.89	43	2775	0.051	ng	86

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

Vial: 14
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 19:29:24 2023

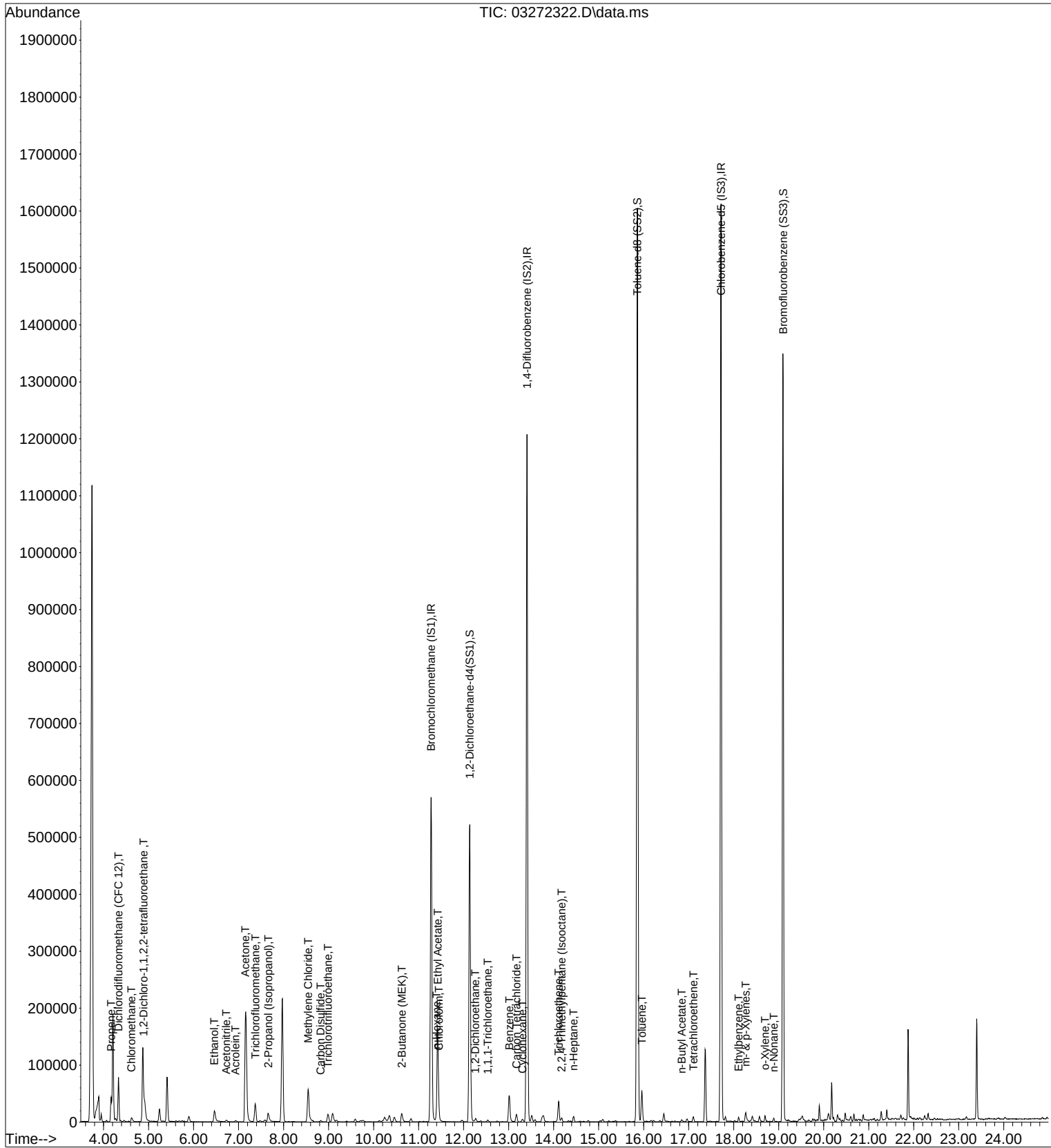
Quant Method : I:\MS16\METHODS\R16122022.M

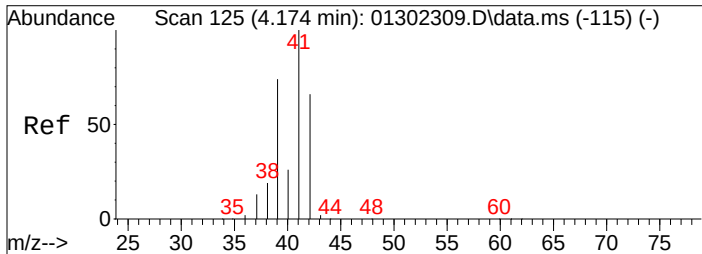
Quant Title : EPA T0-15 per SOP V0A-T015 (CASS T0-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

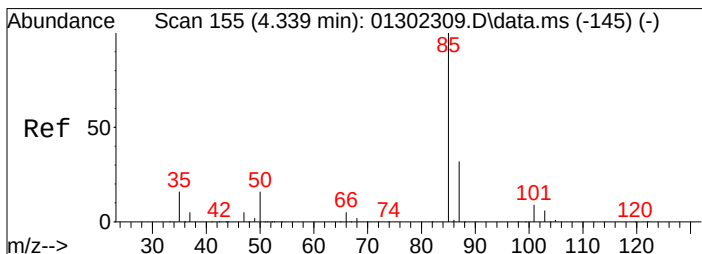
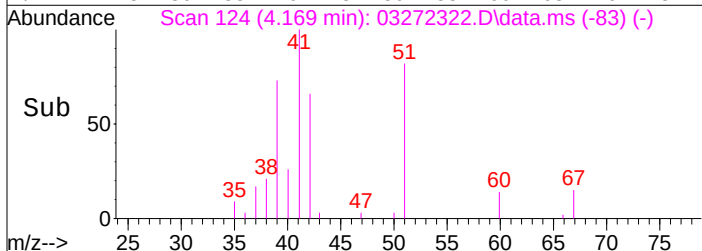
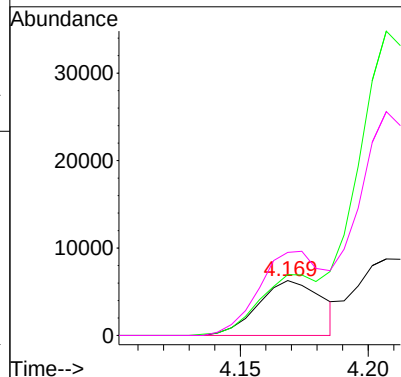
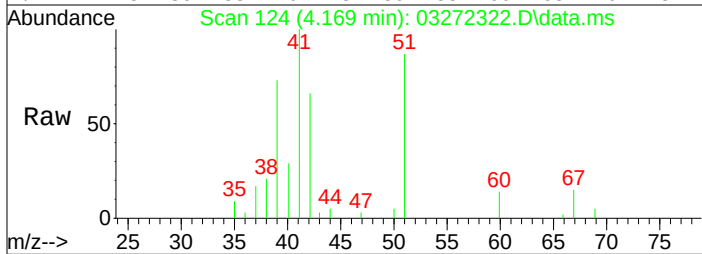
DataAcq Meth:T015B.M





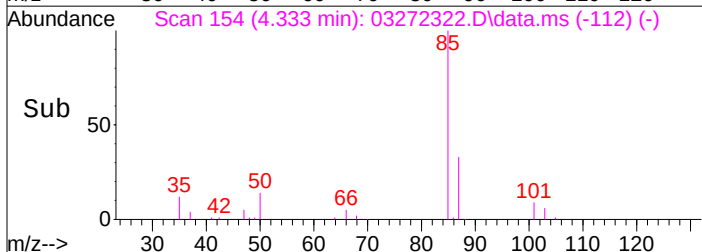
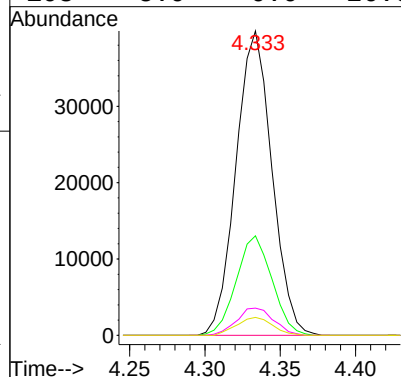
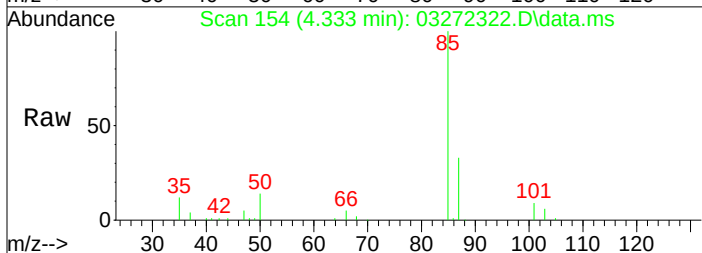
#2
 Propene
 Concen: 0.34 ng
 RT: 4.17 min Scan# 124
 Delta R.T. -0.022 min
 Lab File: 03272322.D
 Acq: 27 Mar 2023 17:20

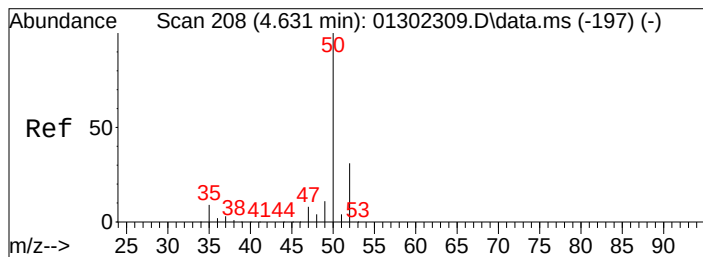
Tgt Ion:	42	Resp:	10897
Ion Ratio		Lower	Upper
42	100		
39	0.0	87.4	127.4#
41	159.6	131.0	171.0



#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.88 ng
 RT: 4.33 min Scan# 154
 Delta R.T. -0.016 min
 Lab File: 03272322.D
 Acq: 27 Mar 2023 17:20

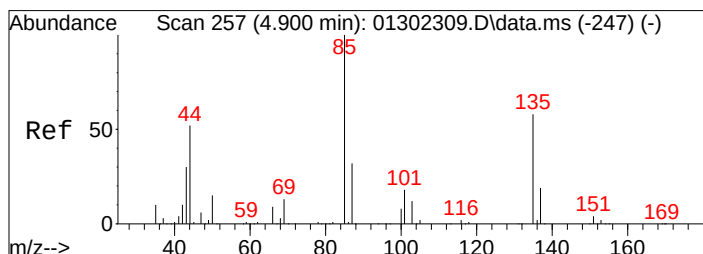
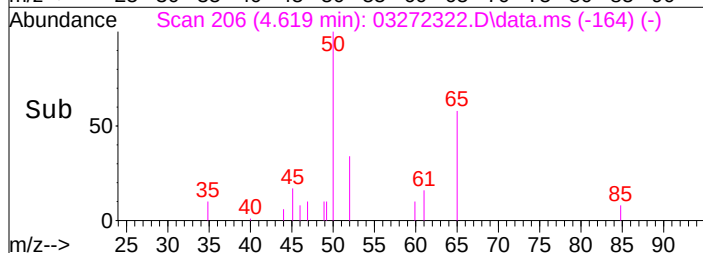
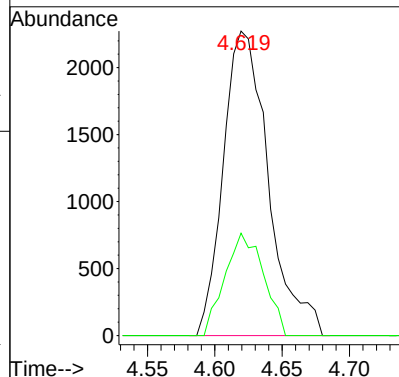
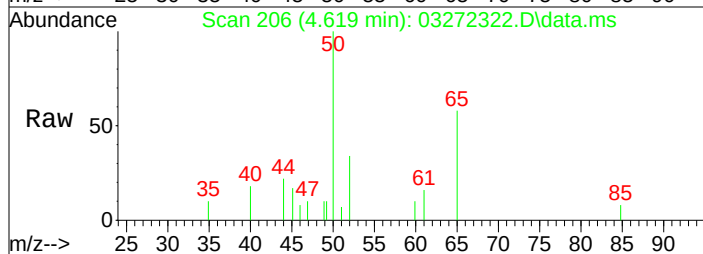
Tgt Ion:	85	Resp:	66273
Ion Ratio		Lower	Upper
85	100		
87	32.5	12.1	52.1
101	9.3	0.0	29.3
103	5.9	0.0	26.0





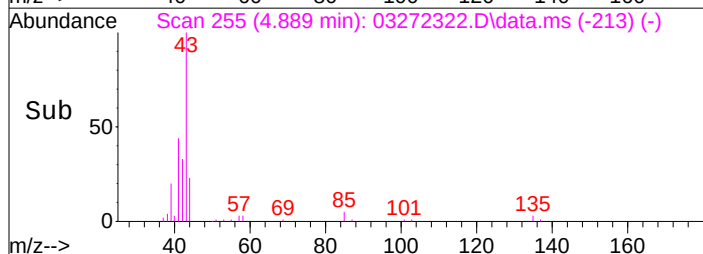
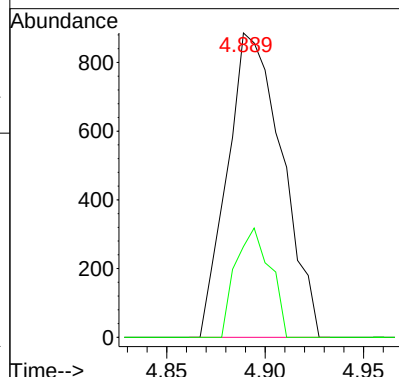
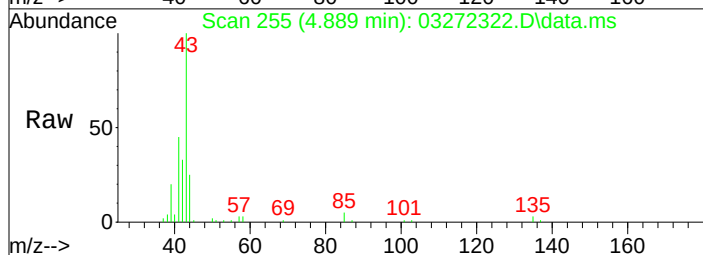
#4
 Chloromethane
 Concen: 0.16 ng
 RT: 4.62 min Scan# 206
 Delta R.T. -0.016 min
 Lab File: 03272322.D
 Acq: 27 Mar 2023 17:20

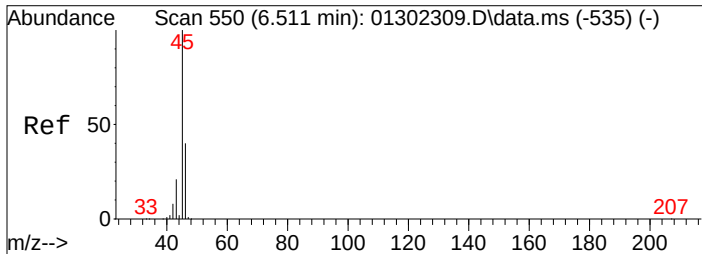
Tgt Ion: 50 Resp: 5300
 Ion Ratio Lower Upper
 50 100
 52 28.8 12.2 52.2



#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.09 ng
 RT: 4.89 min Scan# 255
 Delta R.T. -0.016 min
 Lab File: 03272322.D
 Acq: 27 Mar 2023 17:20

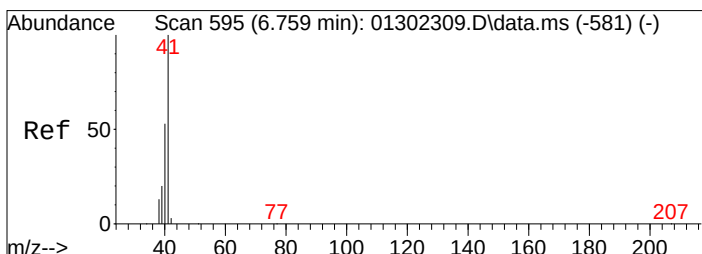
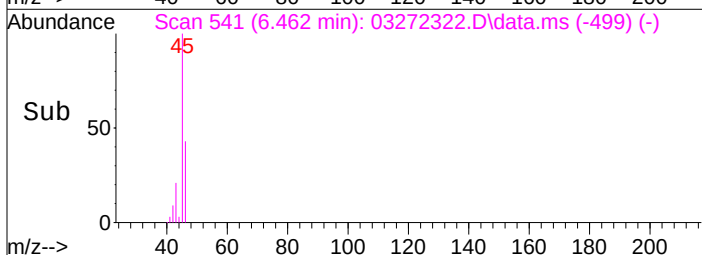
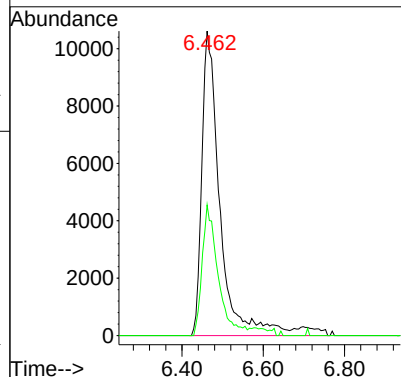
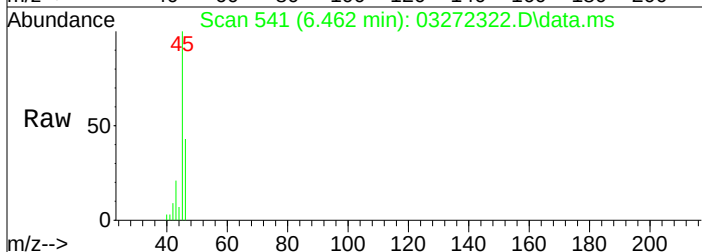
Tgt Ion: 135 Resp: 1706
 Ion Ratio Lower Upper
 135 100
 137 23.0 12.0 52.0





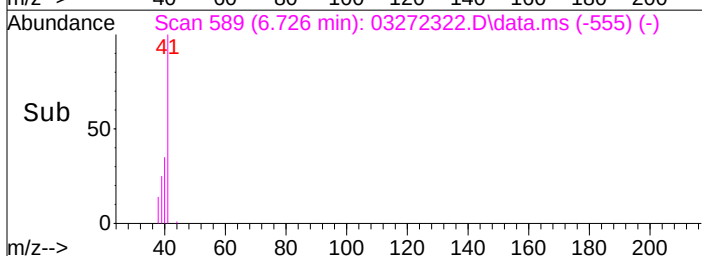
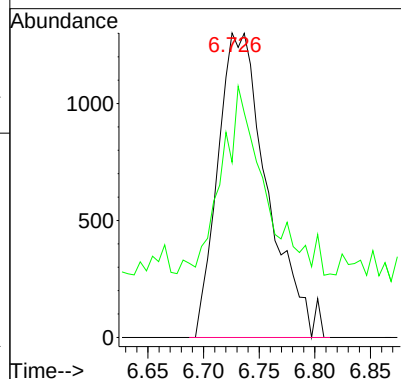
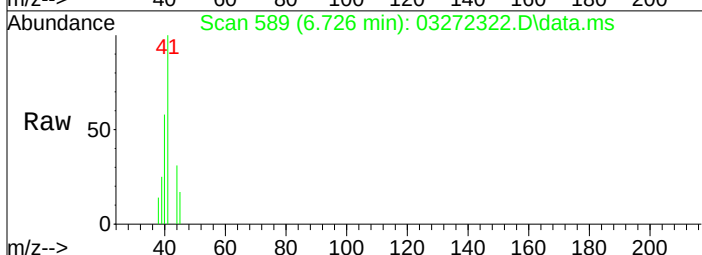
#10
 Ethanol
 Concen: 1.48 ng
 RT: 6.46 min Scan# 541
 Delta R.T. -0.016 min
 Lab File: 03272322.D
 Acq: 27 Mar 2023 17:20

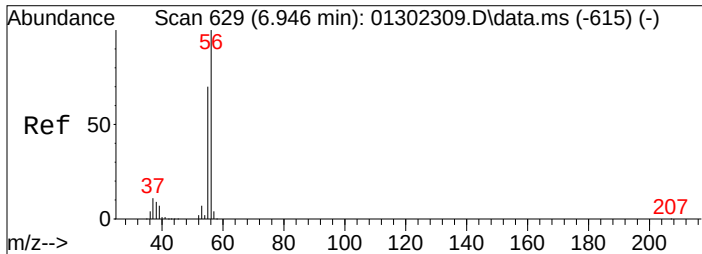
Tgt Ion:	45	Resp:	33533
Ion Ratio		Lower	Upper
45	100		
46	39.4	20.5	60.5



#11
 Acetonitrile
 Concen: 0.07 ng
 RT: 6.73 min Scan# 589
 Delta R.T. -0.011 min
 Lab File: 03272322.D
 Acq: 27 Mar 2023 17:20

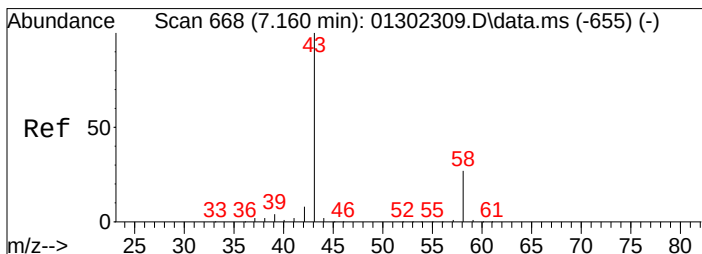
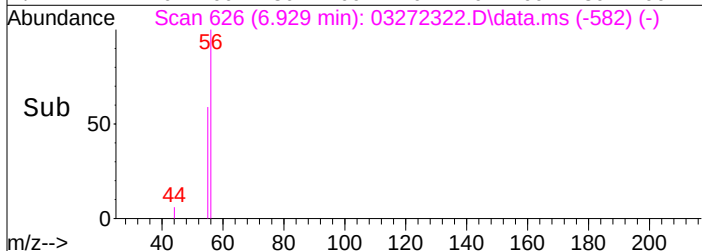
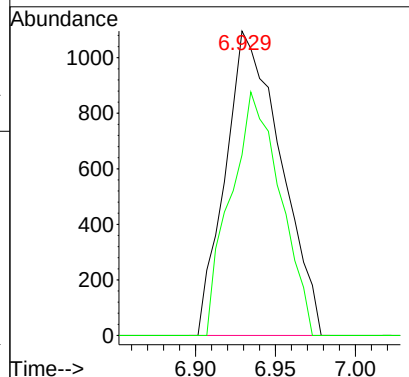
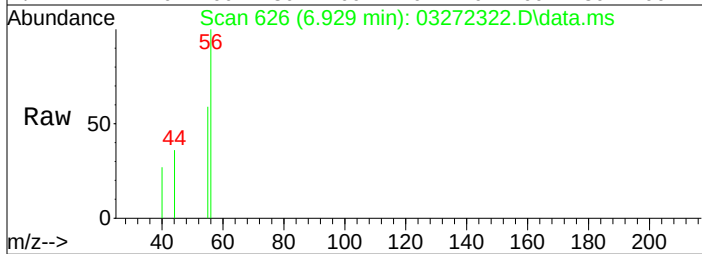
Tgt Ion:	41	Resp:	4017
Ion Ratio		Lower	Upper
41	100		
40	60.0	32.4	72.4





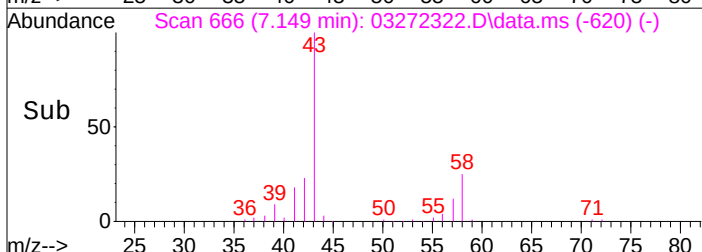
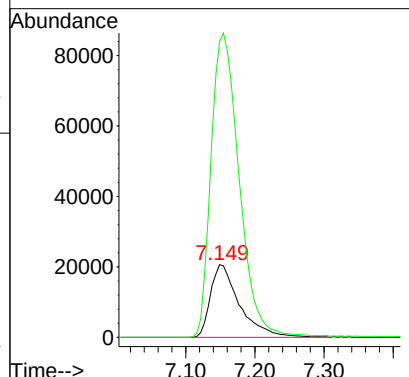
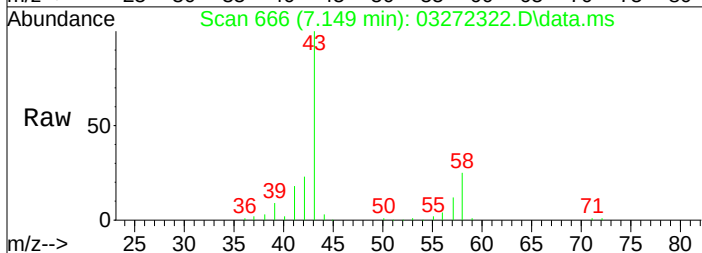
#12
Acrolein
Concen: 0.17 ng
RT: 6.93 min Scan# 626
Delta R.T. -0.006 min
Lab File: 03272322.D
Acq: 27 Mar 2023 17:20

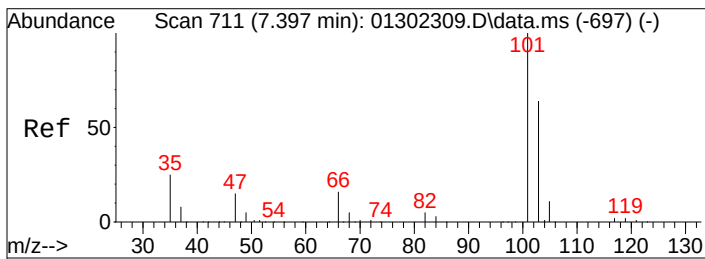
Tgt Ion: 56 Resp: 2647
Ion Ratio Lower Upper
56 100
55 71.6 49.9 89.9



#13
Acetone
Concen: 3.50 ng
RT: 7.15 min Scan# 666
Delta R.T. 0.005 min
Lab File: 03272322.D
Acq: 27 Mar 2023 17:20

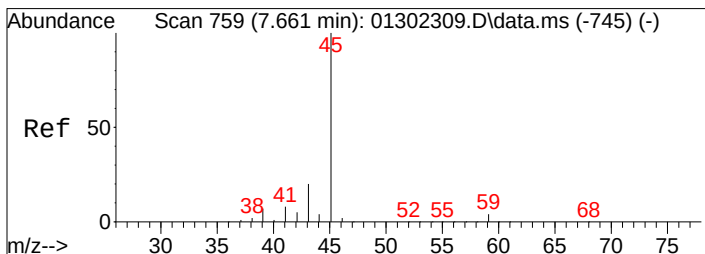
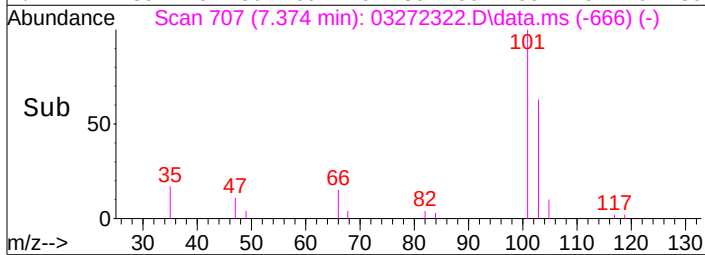
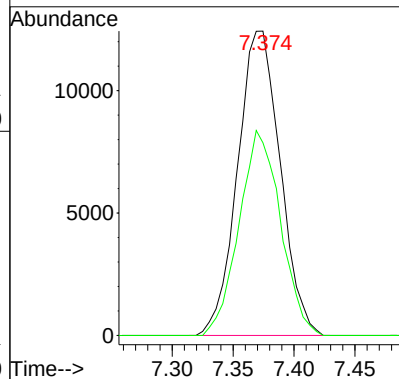
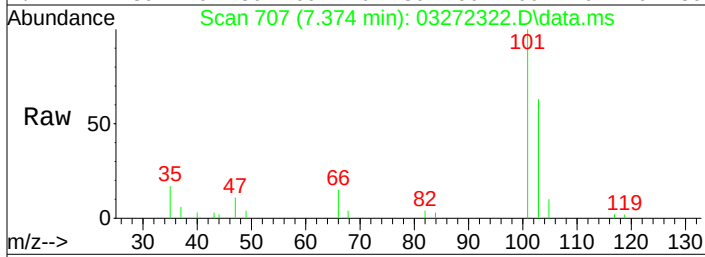
Tgt Ion: 58 Resp: 60614
Ion Ratio Lower Upper
58 100
43 405.5 298.5 358.5#





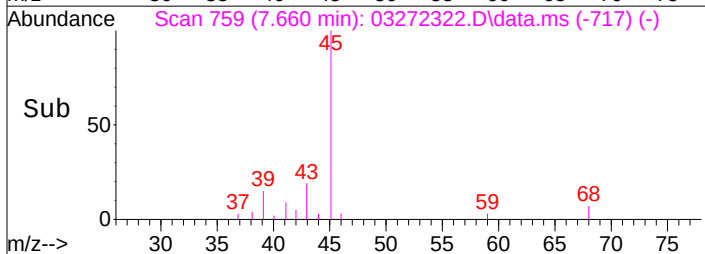
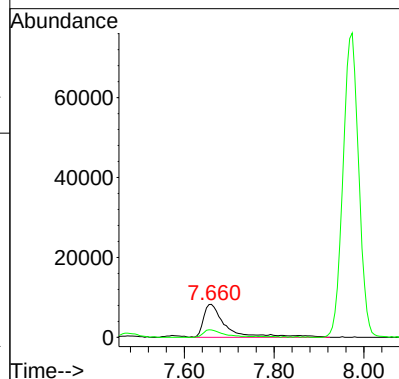
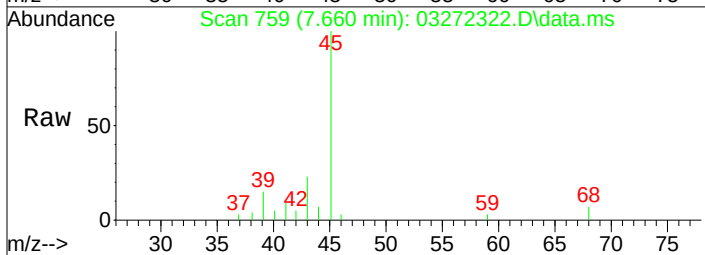
#14
 Trichlorofluoromethane
 Concen: 0.93 ng
 RT: 7.37 min Scan# 707
 Delta R.T. -0.022 min
 Lab File: 03272322.D
 Acq: 27 Mar 2023 17:20

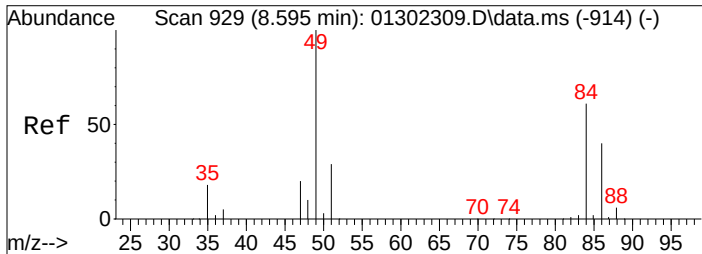
Tgt Ion: 101 Resp: 30299
 Ion Ratio Lower Upper
 101 100
 103 65.4 44.8 84.8



#15
 2-Propanol (Isopropanol)
 Concen: 0.48 ng
 RT: 7.66 min Scan# 759
 Delta R.T. -0.020 min
 Lab File: 03272322.D
 Acq: 27 Mar 2023 17:20

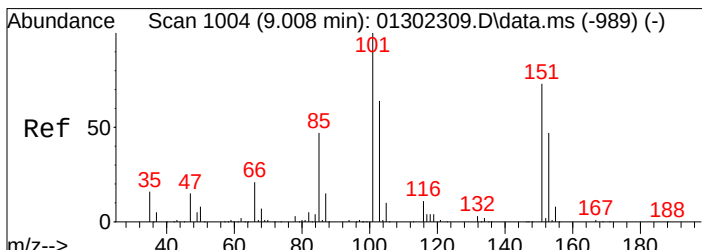
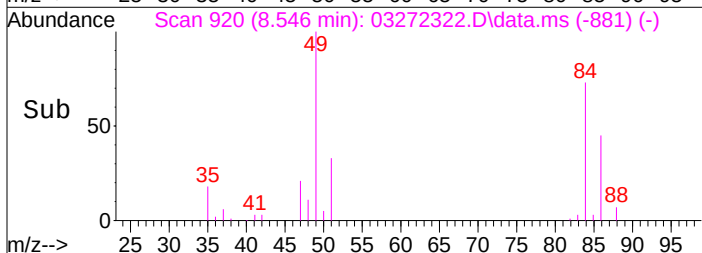
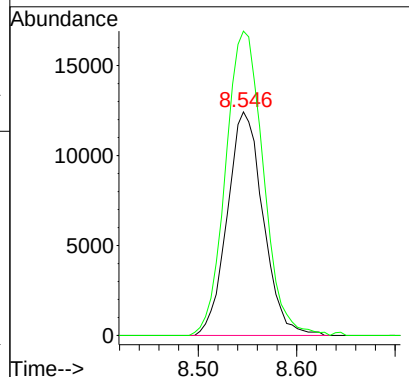
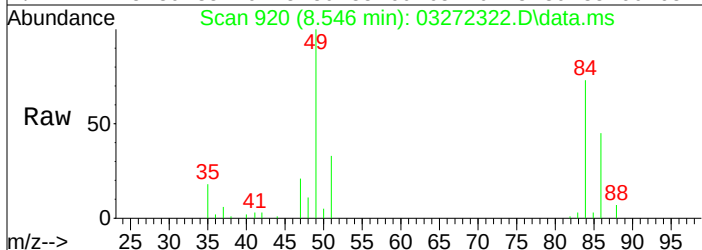
Tgt Ion: 45 Resp: 29012
 Ion Ratio Lower Upper
 45 100
 43 23.7 0.0 37.9





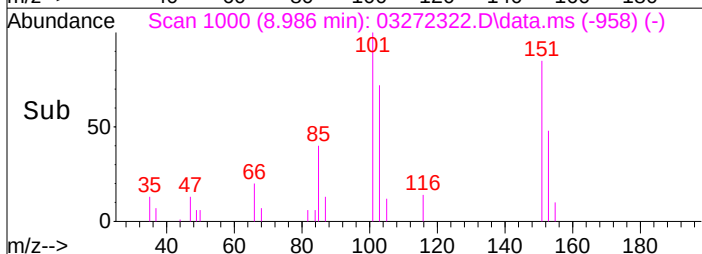
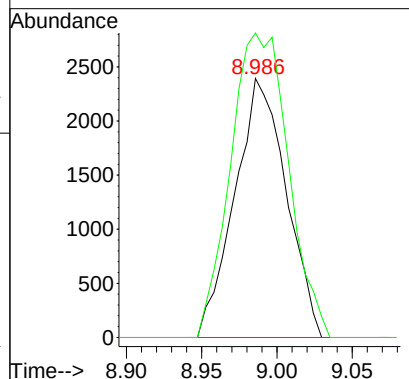
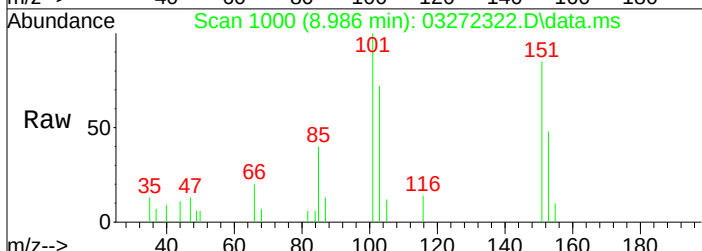
#19
 Methylene Chloride
 Concen: 1.65 ng
 RT: 8.55 min Scan# 920
 Delta R.T. -0.033 min
 Lab File: 03272322.D
 Acq: 27 Mar 2023 17:20

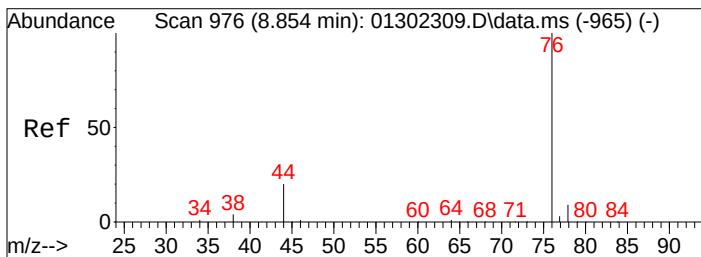
Tgt Ion:	84	Resp:	31499
Ion Ratio	Lower	Upper	
84	100		
49	142.8	135.0	185.0



#21
 Trichlorotrifluoroethane
 Concen: 0.35 ng
 RT: 8.99 min Scan# 1000
 Delta R.T. -0.016 min
 Lab File: 03272322.D
 Acq: 27 Mar 2023 17:20

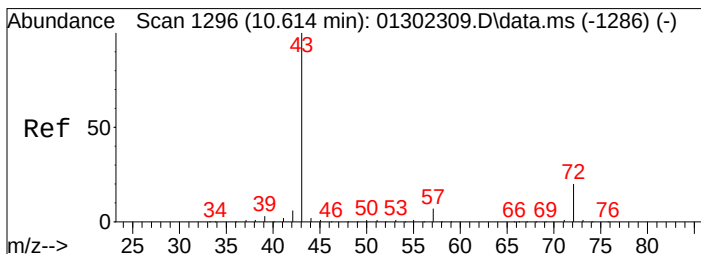
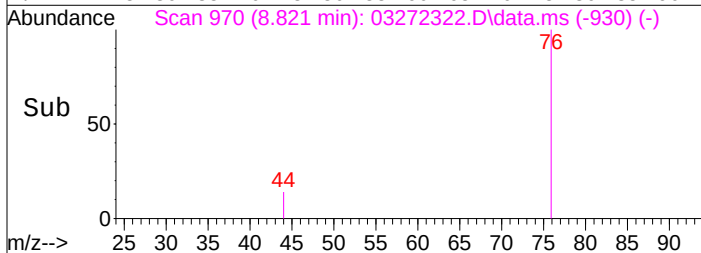
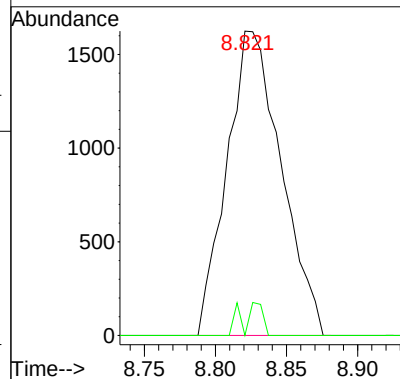
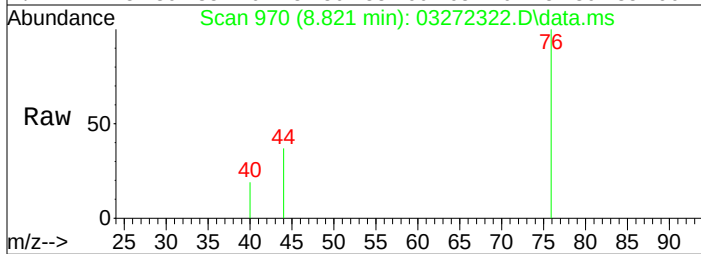
Tgt Ion:	151	Resp:	5692
Ion Ratio	Lower	Upper	
151	100		
101	132.4	101.5	141.5





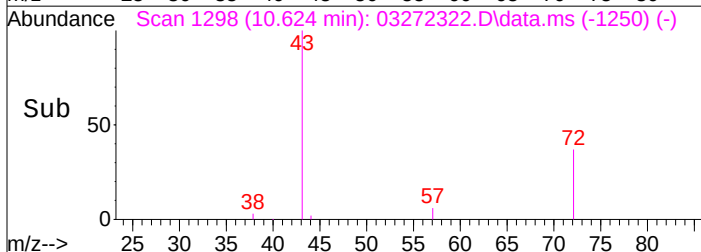
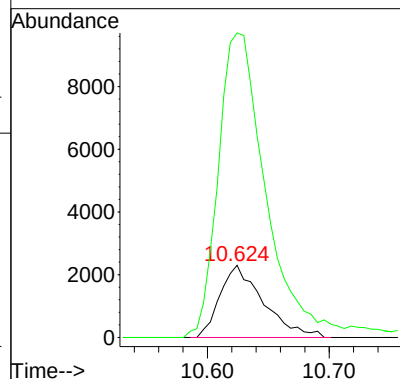
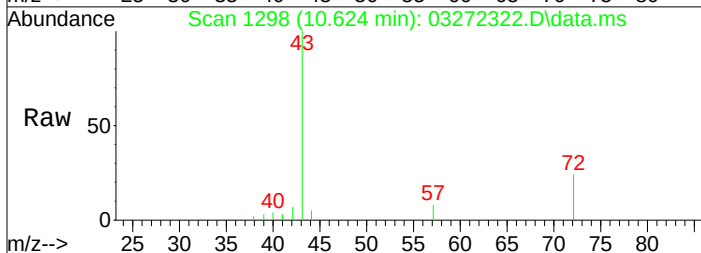
#22
Carbon Disulfide
Concen: 0.06 ng
RT: 8.82 min Scan# 970
Delta R.T. -0.027 min
Lab File: 03272322.D
Acq: 27 Mar 2023 17:20

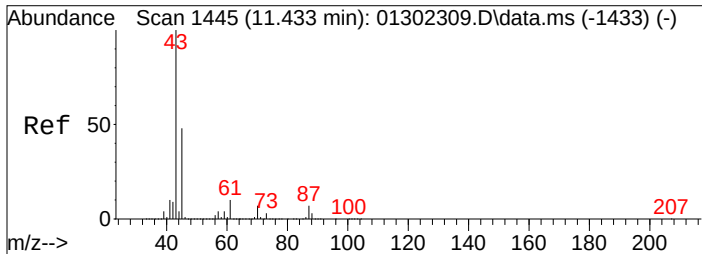
Tgt Ion: 76 Resp: 4307
Ion Ratio Lower Upper
76 100
78 3.9 0.0 29.1



#27
2-Butanone (MEK)
Concen: 0.45 ng
RT: 10.62 min Scan# 1298
Delta R.T. 0.016 min
Lab File: 03272322.D
Acq: 27 Mar 2023 17:20

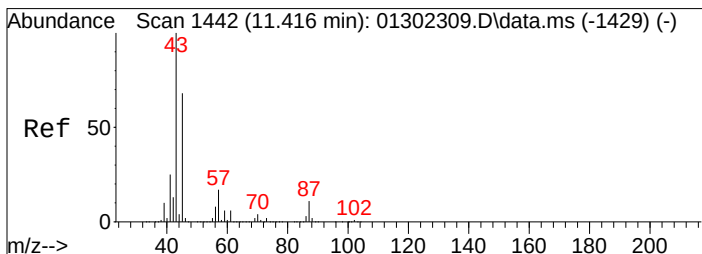
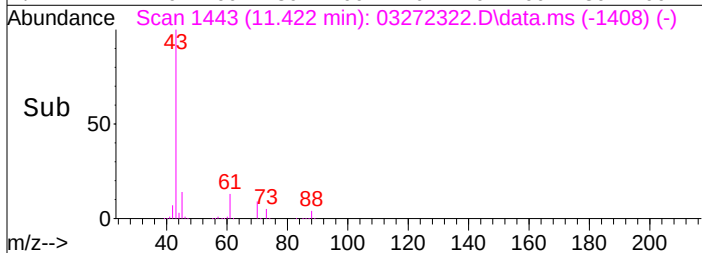
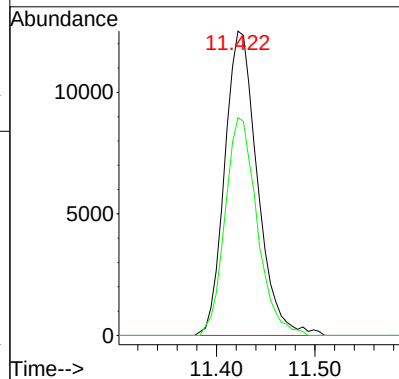
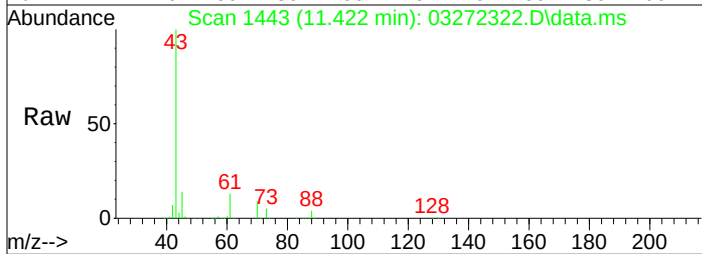
Tgt Ion: 72 Resp: 5664
Ion Ratio Lower Upper
72 100
43 477.9 449.4 489.4





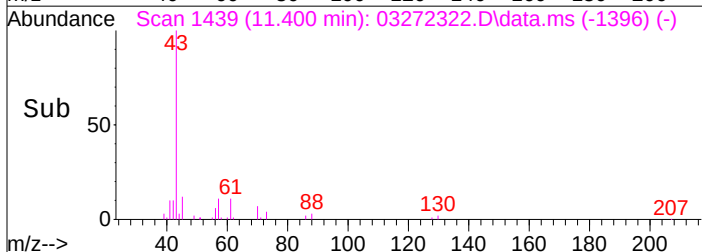
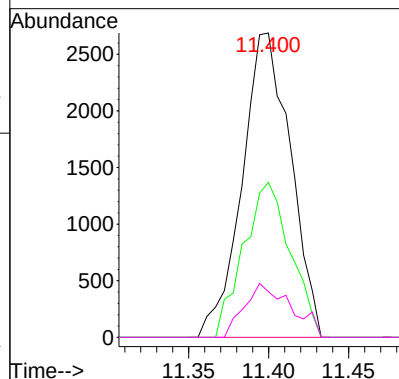
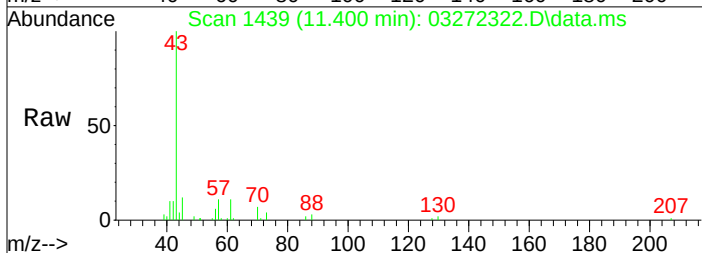
#30
Ethyl Acetate
Concen: 3.52 ng
RT: 11.42 min Scan# 1443
Delta R.T. -0.005 min
Lab File: 03272322.D
Acq: 27 Mar 2023 17:20

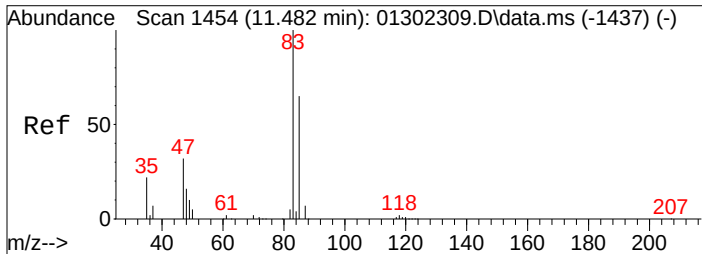
Tgt Ion: 61 Resp: 28945
Ion Ratio Lower Upper
61 100
70 70.0 52.8 92.8



#31
n-Hexane
Concen: 0.14 ng
RT: 11.40 min Scan# 1439
Delta R.T. -0.011 min
Lab File: 03272322.D
Acq: 27 Mar 2023 17:20

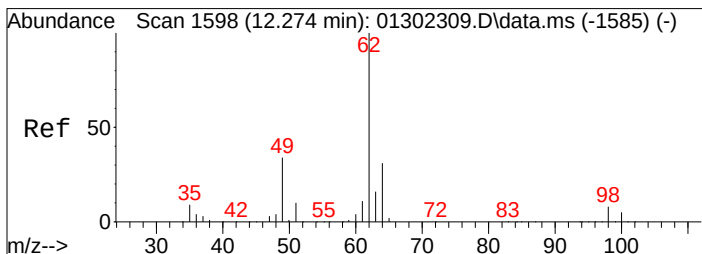
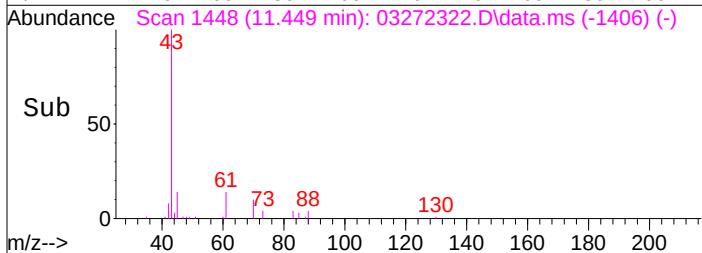
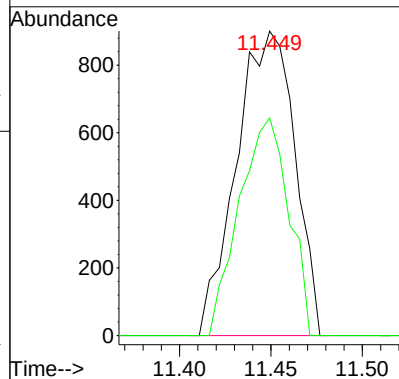
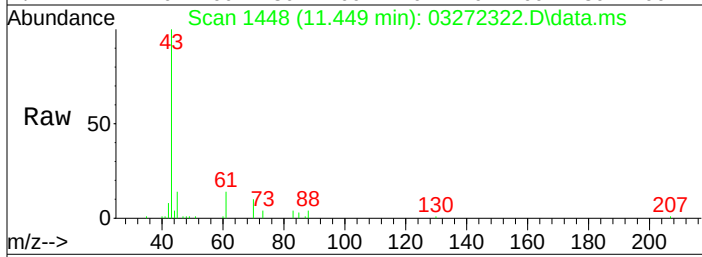
Tgt Ion: 57 Resp: 5656
Ion Ratio Lower Upper
57 100
56 49.3 39.9 59.9
86 17.0 12.3 18.5





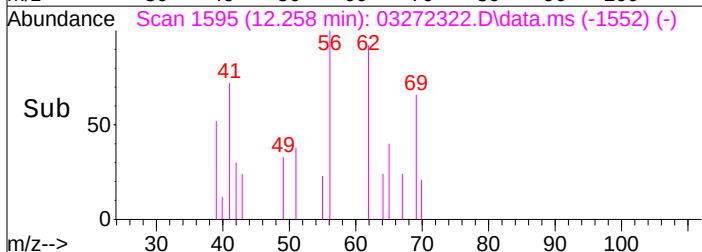
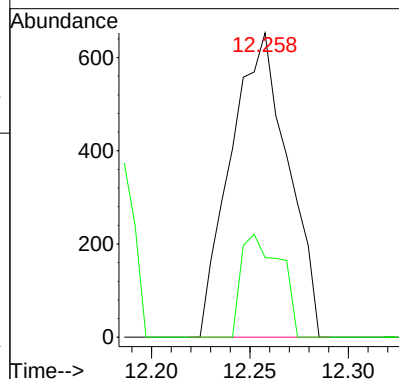
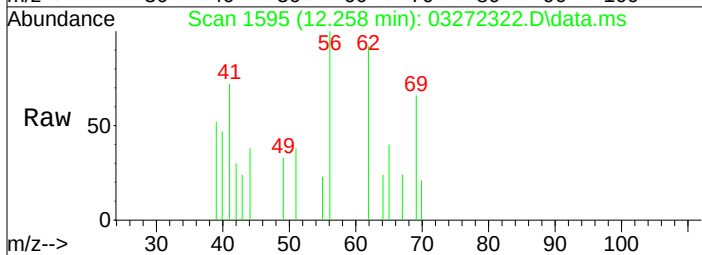
#32
Chloroform
Concen: 0.06 ng
RT: 11.45 min Scan# 1448
Delta R.T. -0.016 min
Lab File: 03272322.D
Acq: 27 Mar 2023 17:20

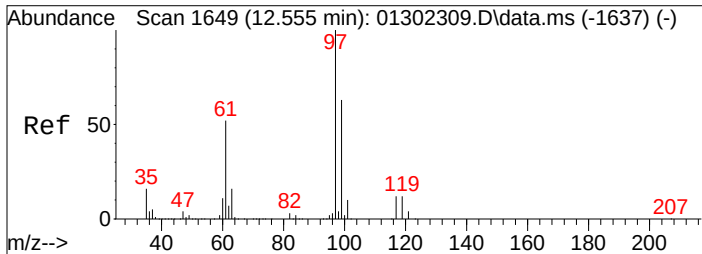
Tgt Ion: 83 Resp: 2002
Ion Ratio Lower Upper
83 100
85 60.5 45.5 85.5



#36
1,2-Dichloroethane
Concen: 0.05 ng
RT: 12.26 min Scan# 1595
Delta R.T. -0.011 min
Lab File: 03272322.D
Acq: 27 Mar 2023 17:20

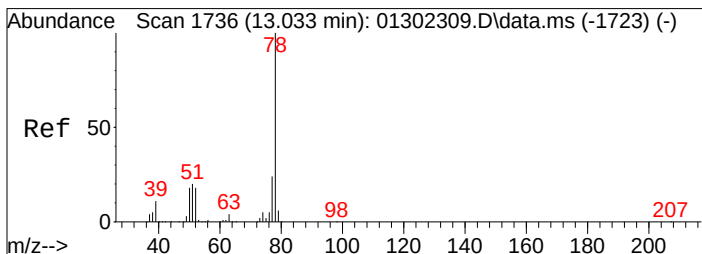
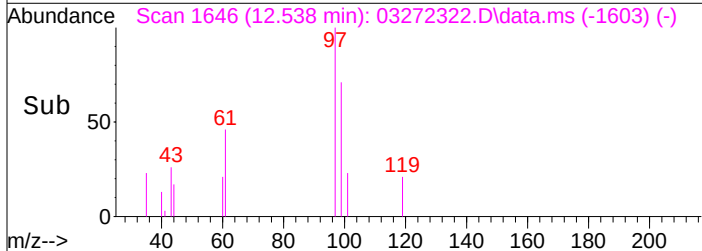
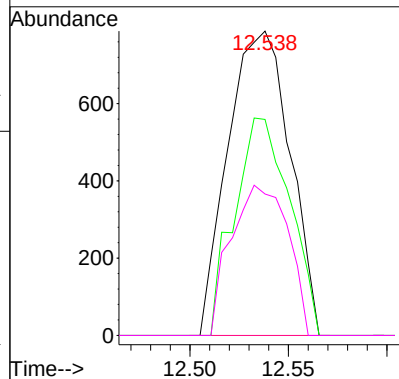
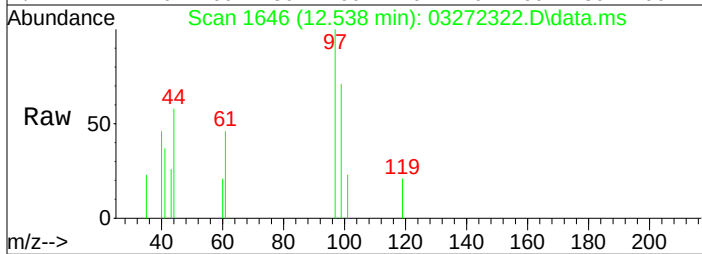
Tgt Ion: 62 Resp: 1316
Ion Ratio Lower Upper
62 100
64 23.2 12.5 52.5





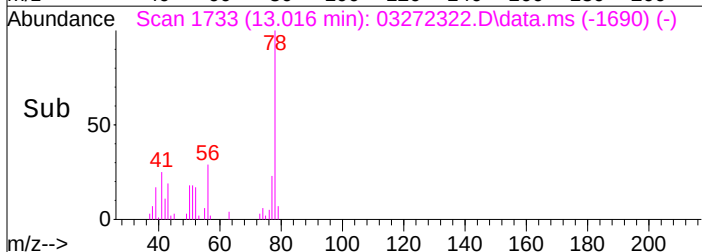
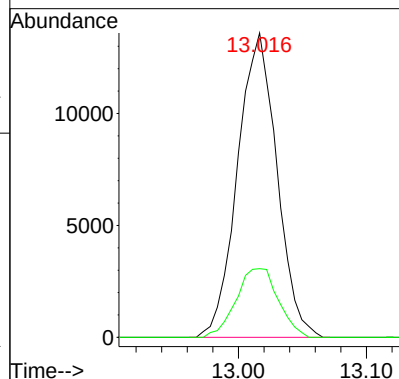
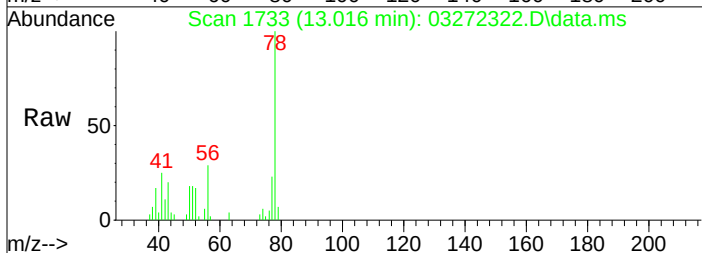
#38
 1,1,1-Trichloroethane
 Concen: 0.06 ng
 RT: 12.54 min Scan# 1646
 Delta R.T. -0.011 min
 Lab File: 03272322.D
 Acq: 27 Mar 2023 17:20

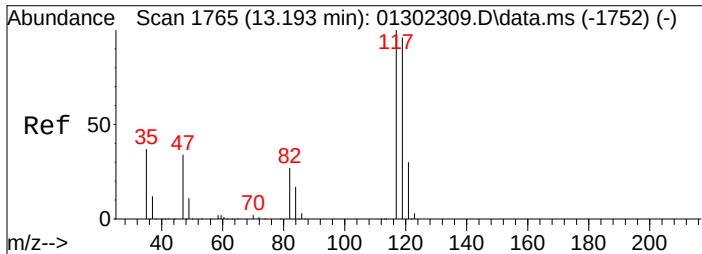
Tgt Ion:	97	Resp:	1726
Ion Ratio		Lower	Upper
97	100		
99	64.0	44.0	84.0
61	45.4	26.8	66.8



#41
 Benzene
 Concen: 0.39 ng
 RT: 13.02 min Scan# 1733
 Delta R.T. -0.011 min
 Lab File: 03272322.D
 Acq: 27 Mar 2023 17:20

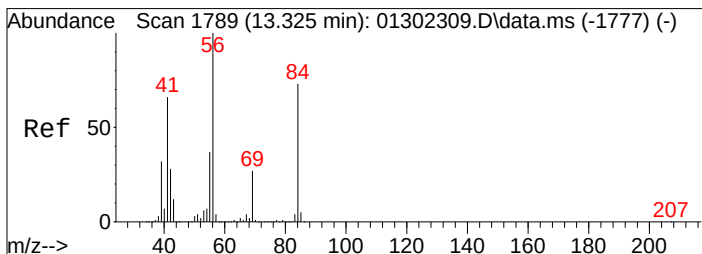
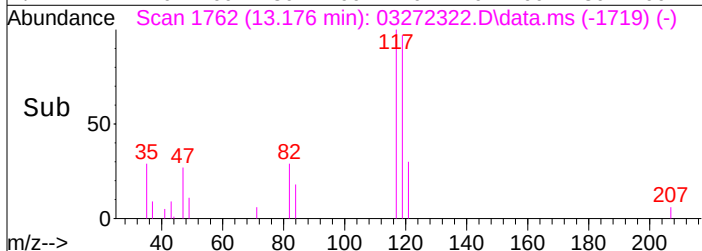
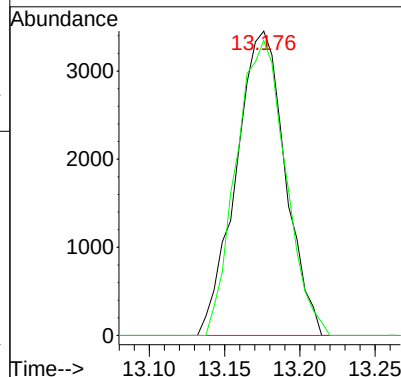
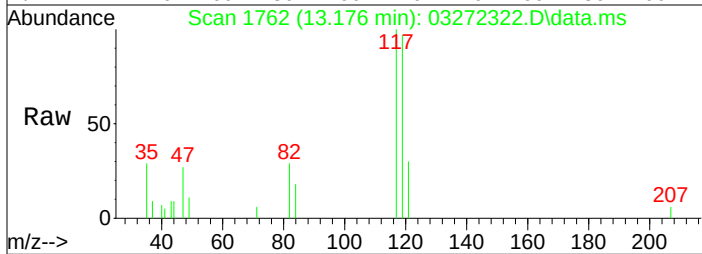
Tgt Ion:	78	Resp:	28999
Ion Ratio		Lower	Upper
78	100		
77	24.3	3.3	43.3





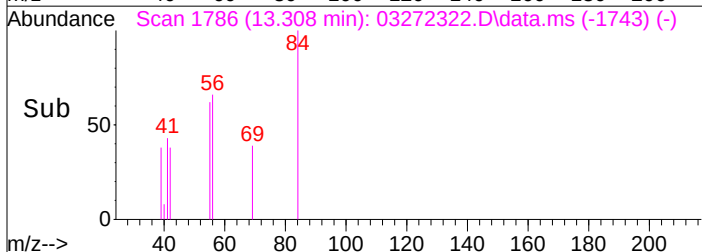
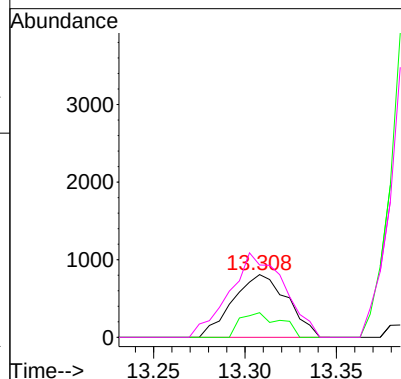
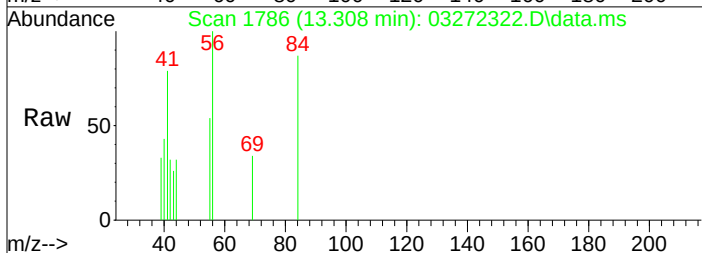
#42
Carbon Tetrachloride
Concen: 0.32 ng
RT: 13.18 min Scan# 1762
Delta R.T. -0.011 min
Lab File: 03272322.D
Acq: 27 Mar 2023 17:20

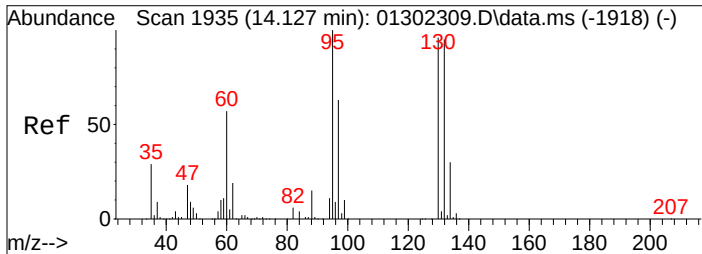
Tgt Ion:	117	Resp:	7868
Ion Ratio	Lower	Upper	
117	100		
119	97.0	76.2	116.2



#43
Cyclohexane
Concen: 0.05 ng
RT: 13.31 min Scan# 1786
Delta R.T. -0.011 min
Lab File: 03272322.D
Acq: 27 Mar 2023 17:20

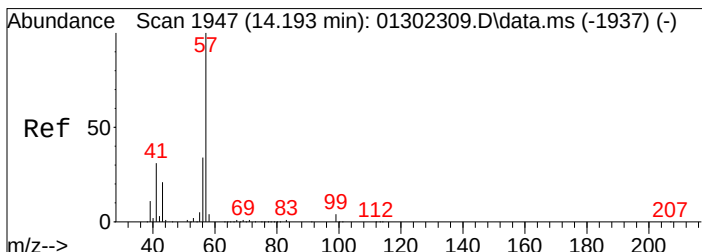
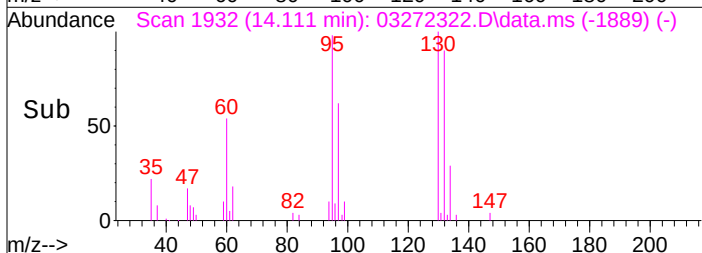
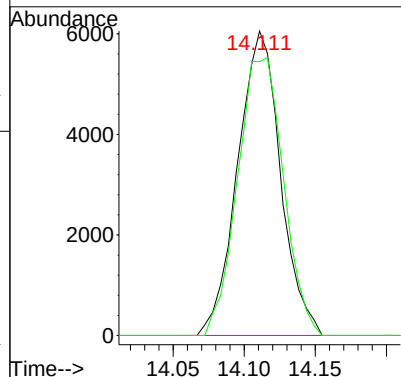
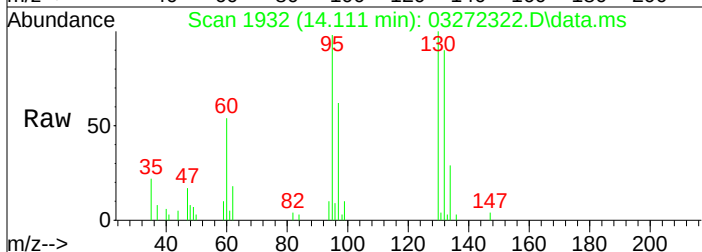
Tgt Ion:	84	Resp:	1680
Ion Ratio	Lower	Upper	
84	100		
69	28.8	16.2	56.2
56	135.1	115.2	155.2





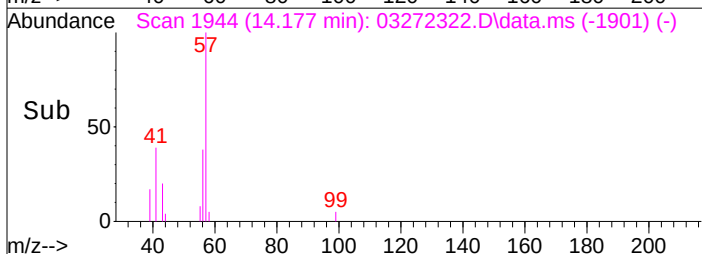
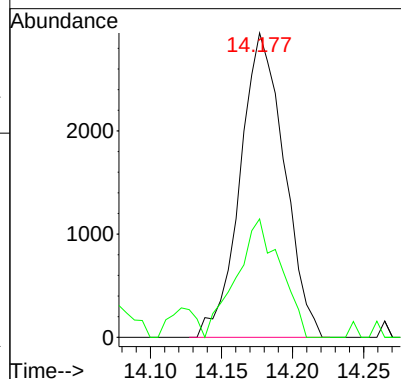
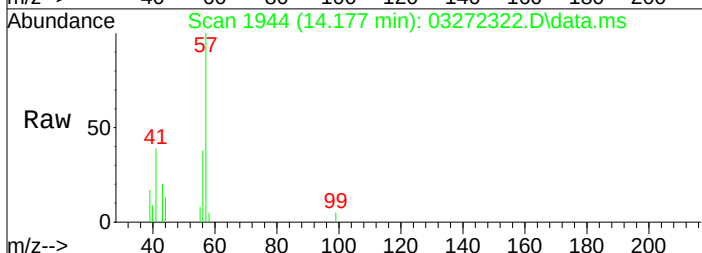
#47
 Trichloroethene
 Concen: 0.62 ng
 RT: 14.11 min Scan# 1932
 Delta R.T. -0.011 min
 Lab File: 03272322.D
 Acq: 27 Mar 2023 17:20

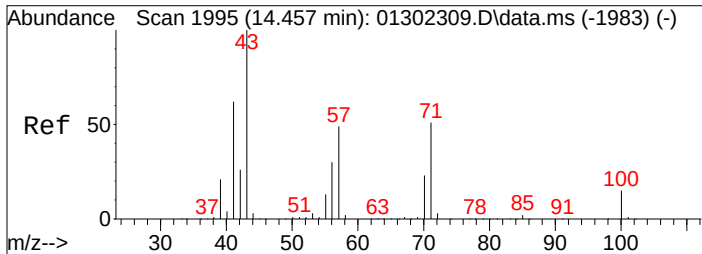
Tgt Ion: 130 Resp: 12709
 Ion Ratio Lower Upper
 130 100
 132 97.9 78.7 118.7



#49
 2,2,4-Trimethylpentane (Isooctane)
 Concen: 0.06 ng
 RT: 14.18 min Scan# 1944
 Delta R.T. -0.011 min
 Lab File: 03272322.D
 Acq: 27 Mar 2023 17:20

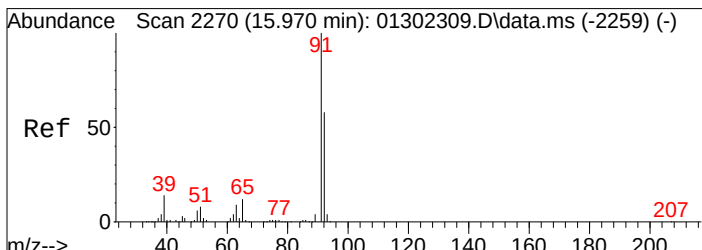
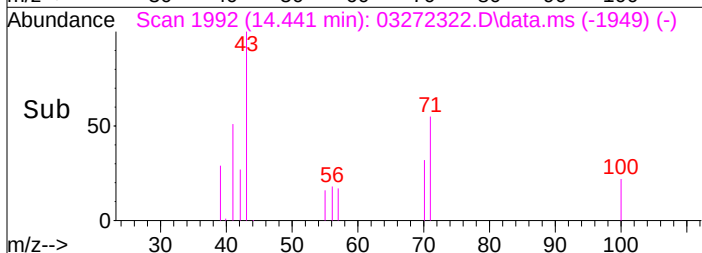
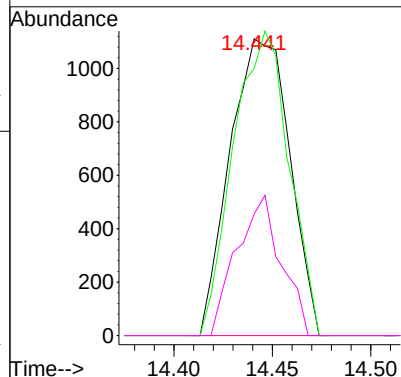
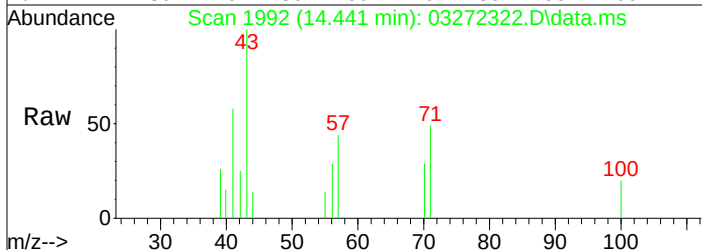
Tgt Ion: 57 Resp: 6352
 Ion Ratio Lower Upper
 57 100
 41 38.9 5.8 45.8





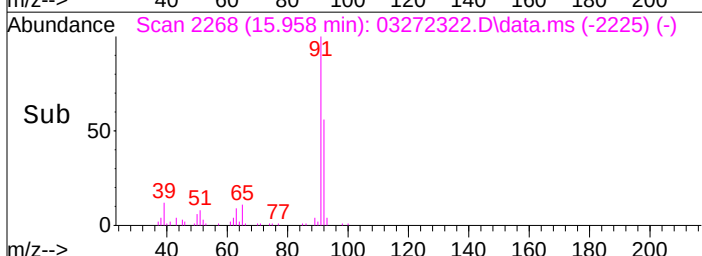
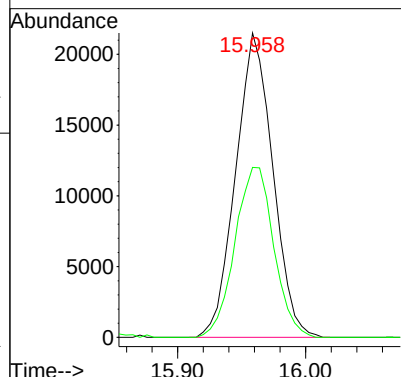
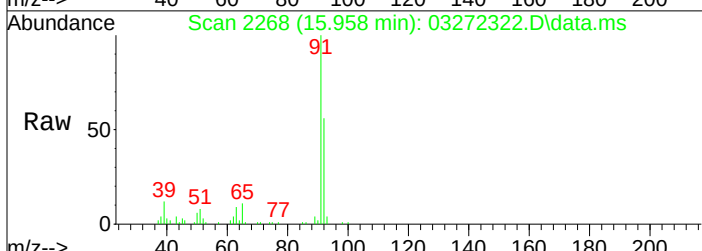
#51
n-Heptane
Concen: 0.11 ng
RT: 14.44 min Scan# 1992
Delta R.T. -0.011 min
Lab File: 03272322.D
Acq: 27 Mar 2023 17:20

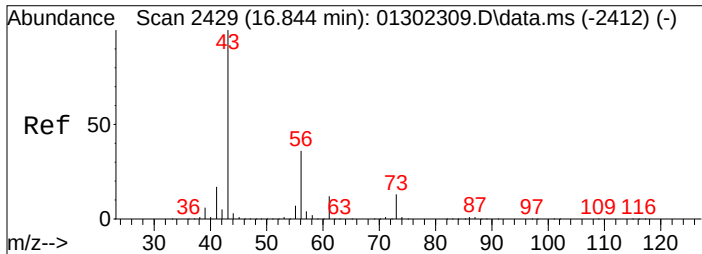
Tgt Ion:	71	Resp:	2345
Ion Ratio	Lower	Upper	
71	100		
57	95.5	81.4	121.4
100	35.1	11.8	51.8



#58
Toluene
Concen: 0.50 ng
RT: 15.96 min Scan# 2268
Delta R.T. -0.011 min
Lab File: 03272322.D
Acq: 27 Mar 2023 17:20

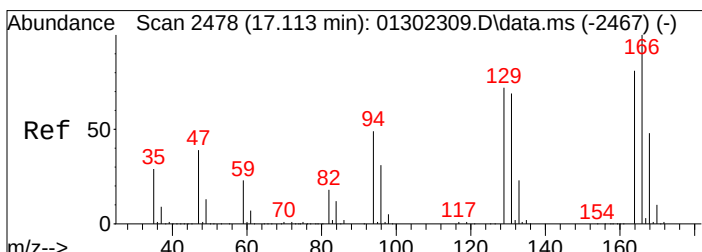
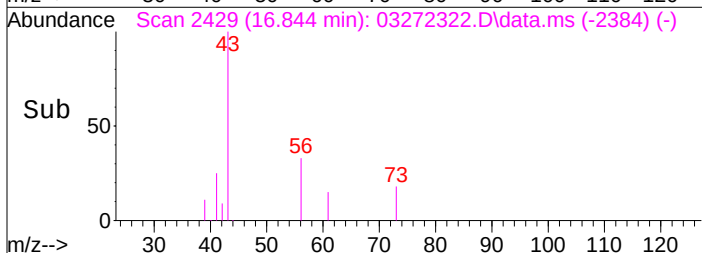
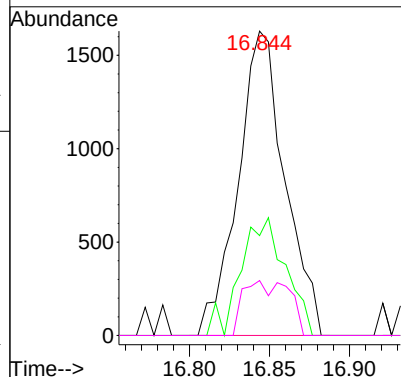
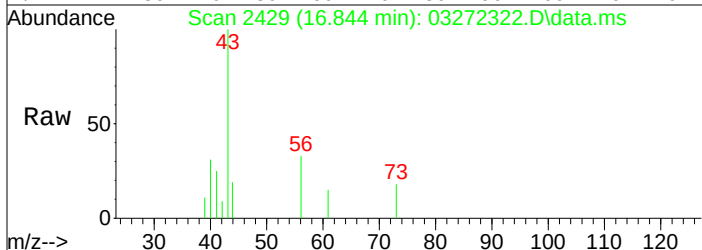
Tgt Ion:	91	Resp:	43338
Ion Ratio	Lower	Upper	
91	100		
92	58.4	39.8	79.8





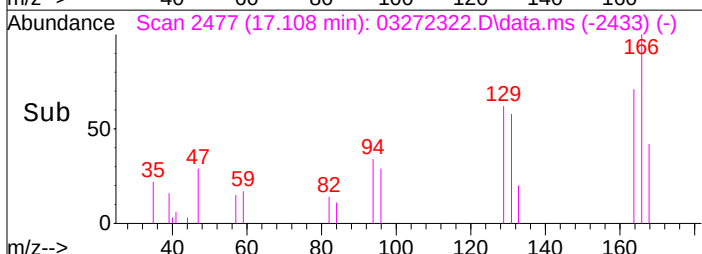
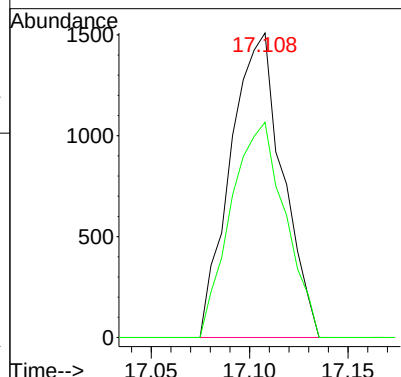
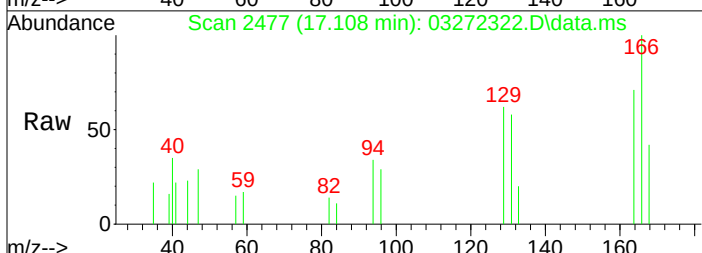
#62
 n-Butyl Acetate
 Concen: 0.06 ng
 RT: 16.84 min Scan# 2429
 Delta R.T. -0.000 min
 Lab File: 03272322.D
 Acq: 27 Mar 2023 17:20

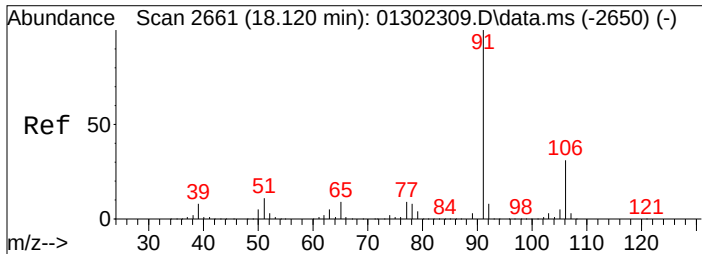
Tgt Ion:	43	Resp:	3318
Ion Ratio		Lower	Upper
43	100		
56	37.3	21.0	61.0
73	17.7	0.0	34.3



#64
 Tetrachloroethene
 Concen: 0.13 ng
 RT: 17.11 min Scan# 2477
 Delta R.T. -0.005 min
 Lab File: 03272322.D
 Acq: 27 Mar 2023 17:20

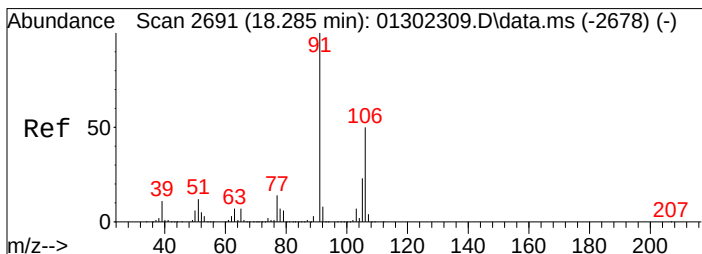
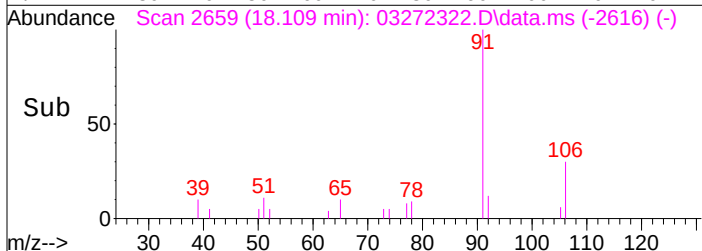
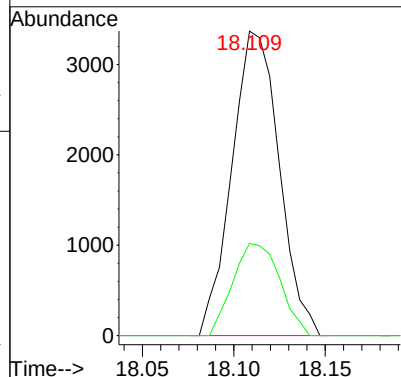
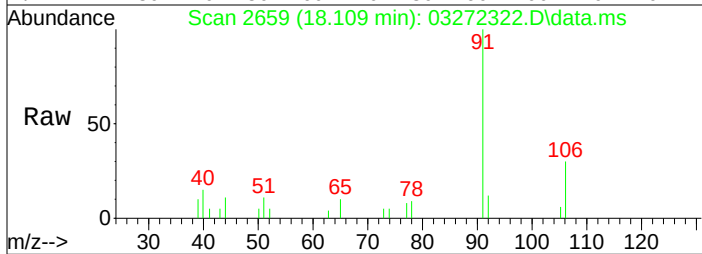
Tgt Ion:	166	Resp:	2771
Ion Ratio		Lower	Upper
166	100		
164	73.8	58.7	98.7





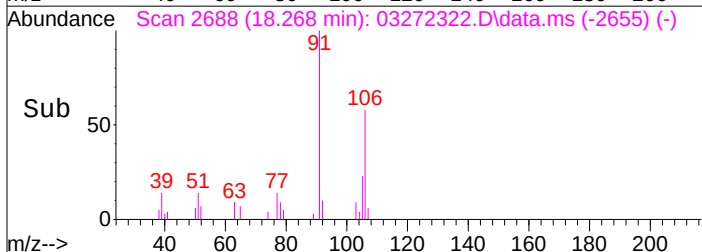
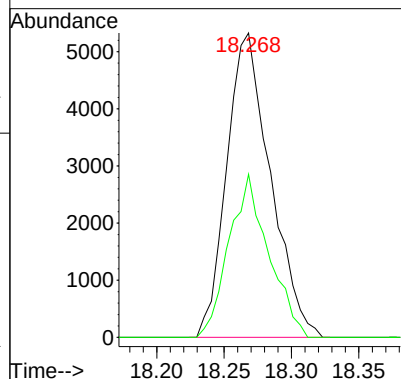
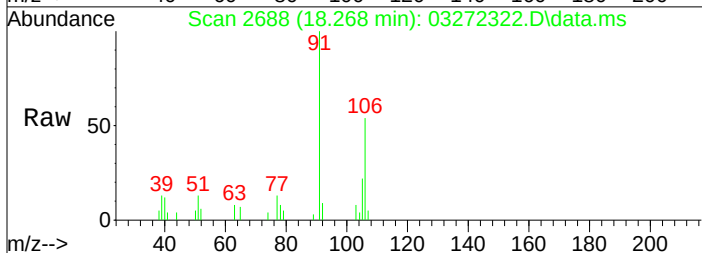
#66
Ethylbenzene
Concen: 0.06 ng
RT: 18.11 min Scan# 2659
Delta R.T. -0.011 min
Lab File: 03272322.D
Acq: 27 Mar 2023 17:20

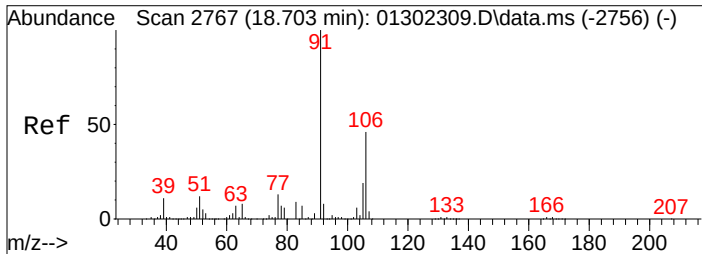
Tgt Ion:	91	Resp:	6061
Ion Ratio	Lower	Upper	
91	100		
106	30.0	11.5	51.5



#67
m- & p-Xylenes
Concen: 0.16 ng
RT: 18.27 min Scan# 2688
Delta R.T. -0.016 min
Lab File: 03272322.D
Acq: 27 Mar 2023 17:20

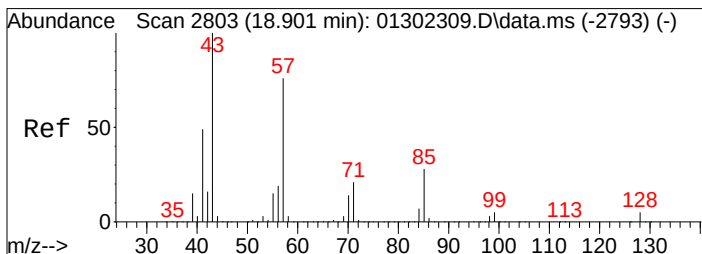
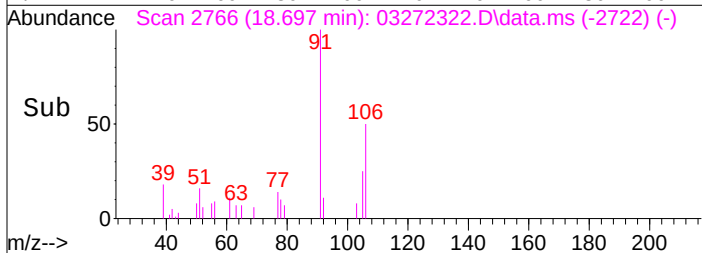
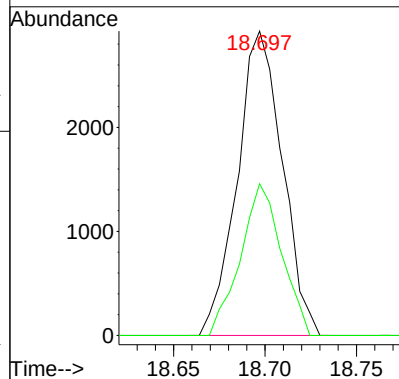
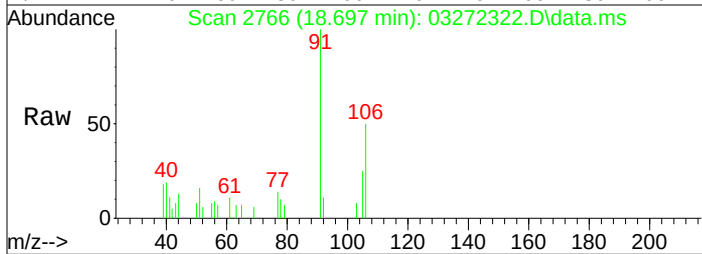
Tgt Ion:	91	Resp:	12003
Ion Ratio	Lower	Upper	
91	100		
106	48.6	29.2	69.2





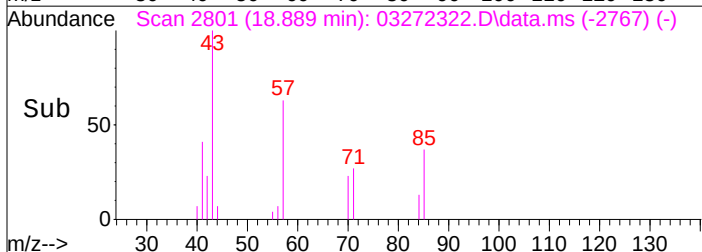
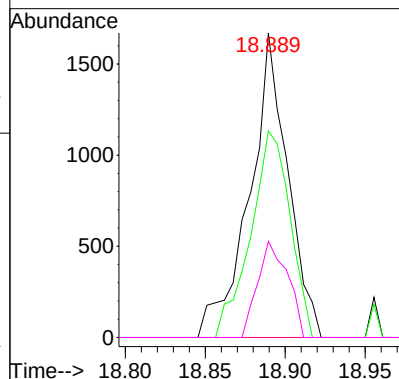
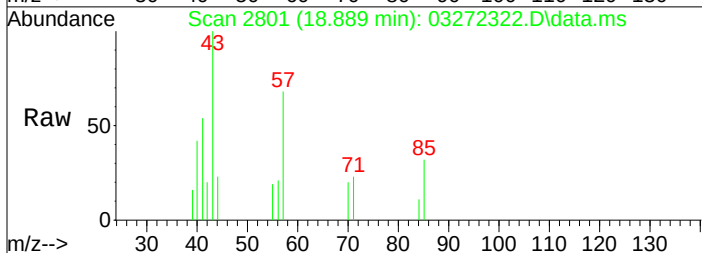
#70
o-Xylene
Concen: 0.07 ng
RT: 18.70 min Scan# 2766
Delta R.T. -0.005 min
Lab File: 03272322.D
Acq: 27 Mar 2023 17:20

Tgt Ion: 91 Resp: 5017
Ion Ratio Lower Upper
91 100
106 45.3 27.3 67.3



#71
n-Nonane
Concen: 0.05 ng
RT: 18.89 min Scan# 2801
Delta R.T. -0.011 min
Lab File: 03272322.D
Acq: 27 Mar 2023 17:20

Tgt Ion: 43 Resp: 2775
Ion Ratio Lower Upper
43 100
57 69.9 64.6 104.6
85 24.8 9.6 49.6



Data File : I:\MS16\DATA\2023_03\27\03272322.D
 Acq On : 27 Mar 2023 17:20
 Sample : P2301250-037 (1000mL)
 Misc : S35-01312301

Vial: 14
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 19:40:10 2023

Quant Method : I:\MS16\METHODS\C16122022.M

Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD

QLast Update : Wed Dec 21 05:02:49 2022

Response via : Initial Calibration

DataAcq Meth: T015B.M

 3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.28	130	235376	12.500	ng	-0.02
16) 1,4-Difluorobenzene (C_2)	13.41	114	1067909	12.500	ng	-0.02
19) Chlorobenzene-d5 (C_3)	17.72	54	224607	12.500	ng	0.00

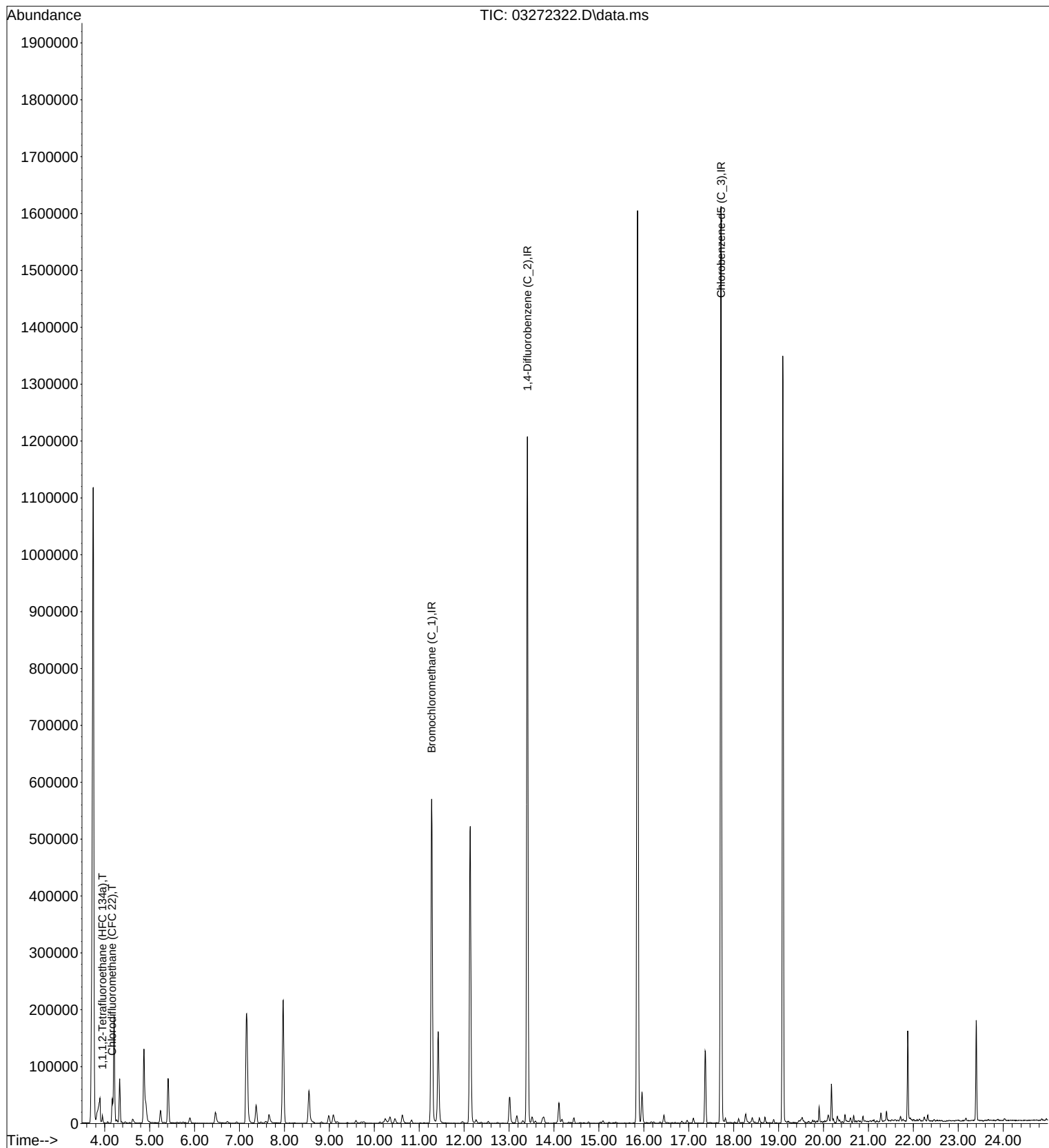
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.86	85	677	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.95	83	5591	0.300	ng	95
4) 1,1-Difluoroethane	4.06	65	772	N.D.		
5) Chlorodifluoromethane ...	4.16	67	2372	0.407	ng	82
6) 1-Chloro-1,1-Difluoroe...	4.63	65	2971	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	8.60	43	6936	N.D.		
12) 2-Methylpentane	10.35	71	2526	N.D.		
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	13.18	84	1410	N.D.		
17) 2,3-Dimethylpentane	13.59	56	1450	N.D.		
18) Dibromomethane	13.82	174	333	N.D.		
20) Methyl Cyclohexane	15.08	55	1572	N.D.		
21) 1,3-Dichloropropane	0.00	76	0	N.D.	d	
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	0.00	91	0	N.D.		
24) 1,2,3-Trichloropropane	0.00	75	0	N.D.		
25) Bromobenzene	0.00	77	0	N.D.		
26) 2-Chlorotoluene	19.66	91	1290	N.D.		
27) 4-Chlorotoluene	19.75	91	55	N.D.		
28) Indane	20.76	117	195	N.D.		
29) Indene	0.00	115	0	N.D.		
30) 1,2,4,5-Tetramethylben...	21.61	119	274	N.D.		
31) 1,2,3,4-Tetramethylben...	21.64	119	714	N.D.		
32) 1,2,3,5-Tetramethylben...	21.99	119	314	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\27\03272322.D
Acq On : 27 Mar 2023 17:20
Sample : P2301250-037 (1000mL)
Misc : S35-01312301

Vial: 14
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 19:40:10 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG6A-2

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-038

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02387

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.12 Final Pressure (psig): 3.73

Container Dilution Factor: 1.36

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.7	0.72	0.12	0.55	0.15	0.024	
74-87-3	Chloromethane	0.23	0.29	0.12	0.11	0.14	0.057	J, V
75-01-4	Vinyl Chloride	ND	0.15	0.078	ND	0.059	0.030	
74-83-9	Bromomethane	ND	0.29	0.10	ND	0.074	0.026	
75-00-3	Chloroethane	ND	0.29	0.090	ND	0.11	0.034	
67-64-1	Acetone	3.3	7.2	1.6	1.4	3.0	0.69	J
75-69-4	Trichlorofluoromethane	1.3	0.71	0.11	0.24	0.13	0.020	
75-35-4	1,1-Dichloroethene	ND	0.15	0.10	ND	0.038	0.025	
75-09-2	Methylene Chloride	0.41	0.72	0.20	0.12	0.21	0.059	J
76-13-1	Trichlorotrifluoroethane	0.52	0.73	0.10	0.068	0.096	0.013	J
75-15-0	Carbon Disulfide	ND	1.5	0.22	ND	0.47	0.070	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	0.10	ND	0.038	0.025	
75-34-3	1,1-Dichloroethane	ND	0.15	0.11	ND	0.037	0.026	
1634-04-4	Methyl tert-Butyl Ether	ND	0.73	0.086	ND	0.20	0.024	
78-93-3	2-Butanone (MEK)	0.58	1.4	0.15	0.20	0.48	0.051	J
156-59-2	cis-1,2-Dichloroethene	ND	0.15	0.10	ND	0.038	0.026	
67-66-3	Chloroform	0.23	0.15	0.097	0.046	0.031	0.020	
107-06-2	1,2-Dichloroethane	0.087	0.15	0.080	0.022	0.037	0.020	J
71-55-6	1,1,1-Trichloroethane	ND	0.15	0.090	ND	0.027	0.016	
71-43-2	Benzene	0.90	0.15	0.10	0.28	0.047	0.033	
56-23-5	Carbon Tetrachloride	0.48	0.15	0.10	0.076	0.024	0.016	
110-82-7	Cyclohexane	ND	1.4	0.20	ND	0.42	0.059	
78-87-5	1,2-Dichloropropane	ND	0.15	0.090	ND	0.032	0.019	
75-27-4	Bromodichloromethane	ND	0.15	0.10	ND	0.022	0.016	
79-01-6	Trichloroethene	0.69	0.15	0.098	0.13	0.028	0.018	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG6A-2

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-038

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02387

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.12 Final Pressure (psig): 3.73

Container Dilution Factor: 1.36

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.73	0.11	ND	0.16	0.025	
108-10-1	4-Methyl-2-pentanone	ND	1.5	0.099	ND	0.37	0.024	
10061-02-6	trans-1,3-Dichloropropene	ND	0.69	0.15	ND	0.15	0.033	
79-00-5	1,1,2-Trichloroethane	ND	0.15	0.073	ND	0.027	0.013	
108-88-3	Toluene	0.67	0.72	0.088	0.18	0.19	0.023	J
591-78-6	2-Hexanone	ND	1.5	0.090	ND	0.37	0.022	
124-48-1	Dibromochloromethane	ND	0.15	0.095	ND	0.018	0.011	
106-93-4	1,2-Dibromoethane	ND	0.15	0.084	ND	0.019	0.011	
127-18-4	Tetrachloroethene	0.31	0.15	0.094	0.046	0.022	0.014	
108-90-7	Chlorobenzene	ND	0.72	0.097	ND	0.16	0.021	
100-41-4	Ethylbenzene	ND	0.72	0.10	ND	0.17	0.023	
179601-23-1	m,p-Xylenes	0.26	1.5	0.19	0.061	0.34	0.044	J
75-25-2	Bromoform	ND	0.73	0.15	ND	0.071	0.014	
100-42-5	Styrene	ND	0.72	0.12	ND	0.17	0.027	
95-47-6	o-Xylene	0.11	0.72	0.10	0.025	0.17	0.024	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	0.10	ND	0.022	0.015	
98-82-8	Cumene	ND	0.73	0.10	ND	0.15	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.72	0.11	ND	0.12	0.018	
106-46-7	1,4-Dichlorobenzene	ND	0.72	0.11	ND	0.12	0.019	
95-50-1	1,2-Dichlorobenzene	ND	0.73	0.11	ND	0.12	0.018	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.5	0.14	ND	0.15	0.014	
120-82-1	1,2,4-Trichlorobenzene	ND	1.5	0.18	ND	0.20	0.024	
79-20-9	Methyl Acetate	ND	0.68	0.33	ND	0.22	0.11	X
108-87-2	Methylcyclohexane	ND	0.68	0.35	ND	0.17	0.088	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS16\DATA\2023_03\27\03272321.D
 Acq On : 27 Mar 2023 16:46
 Sample : P2301250-038 (1000mL)
 Misc : S35-01312301

Vial: 6
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 19:28:18 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

IDA 3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	242789	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	1107858	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.72	54	230017	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.13	65	408256	12.644	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	101.12%	
57) Toluene-d8 (SS2)	15.86	98	1242986	12.343	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	98.72%	
73) Bromofluorobenzene (SS3)	19.10	174	401966	12.798	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	102.40%	

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	4.33	85	72893	2.009	ng	100
4) Chloromethane	4.62	50	5669	0.167	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	4.89	135	1729	0.085	ng	95
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.33	54	610	N.D.		
8) Bromomethane	5.77	94	221	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.45	45	40558	1.736	ng	95
11) Acetonitrile	6.73	41	3471	0.059	ng	95
12) Acrolein	6.93	56	1403	0.085	ng	98
13) Acetone	7.14	58	42857	2.398	ng	# 75
14) Trichlorofluoromethane	7.37	101	33072	0.988	ng	99
15) 2-Propanol (Isopropanol)	7.67	45	14730	0.237	ng	99
16) Acrylonitrile	7.91	53	56	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	8.60	59	1225	N.D.		
19) Methylene Chloride	8.56	84	6033	0.305	ng	84
20) 3-Chloro-1-propene (Al...	8.65	41	470	N.D.		
21) Trichlorotrifluoroethane	8.99	151	6393	0.383	ng	94
22) Carbon Disulfide	8.82	76	1481	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	10.61	72	5566	0.430	ng	97
28) cis-1,2-Dichloroethene	11.11	61	120	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	11.42	61	107361	12.671	ng	99
31) n-Hexane	11.40	57	8054	0.190	ng	95
32) Chloroform	11.44	83	5374	0.166	ng	98
34) Tetrahydrofuran (THF)	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	12.25	62	1675	0.064	ng	84
38) 1,1,1-Trichloroethane	12.54	97	540	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.01	78	51801	0.664	ng	99
42) Carbon Tetrachloride	13.17	117	8882	0.350	ng	94
43) Cyclohexane	13.31	84	1802	0.055	ng	94
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	13.87	63	137	N.D.		
46) Bromodichloromethane	14.05	83	425	N.D.		
47) Trichloroethene	14.11	130	10694	0.504	ng	97
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	14.18	57	7813	0.074	ng	76
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS16\DATA\2023_03\27\03272321.D
 Acq On : 27 Mar 2023 16:46
 Sample : P2301250-038 (1000mL)
 Misc : S35-01312301

Vial: 6
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 19:28:18 2023
 Quant Method : I:\MS16\METHODS\R16122022.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Wed Dec 21 03:06:38 2022
 Response via : Initial Calibration
 DataAcq Meth:T015B.M

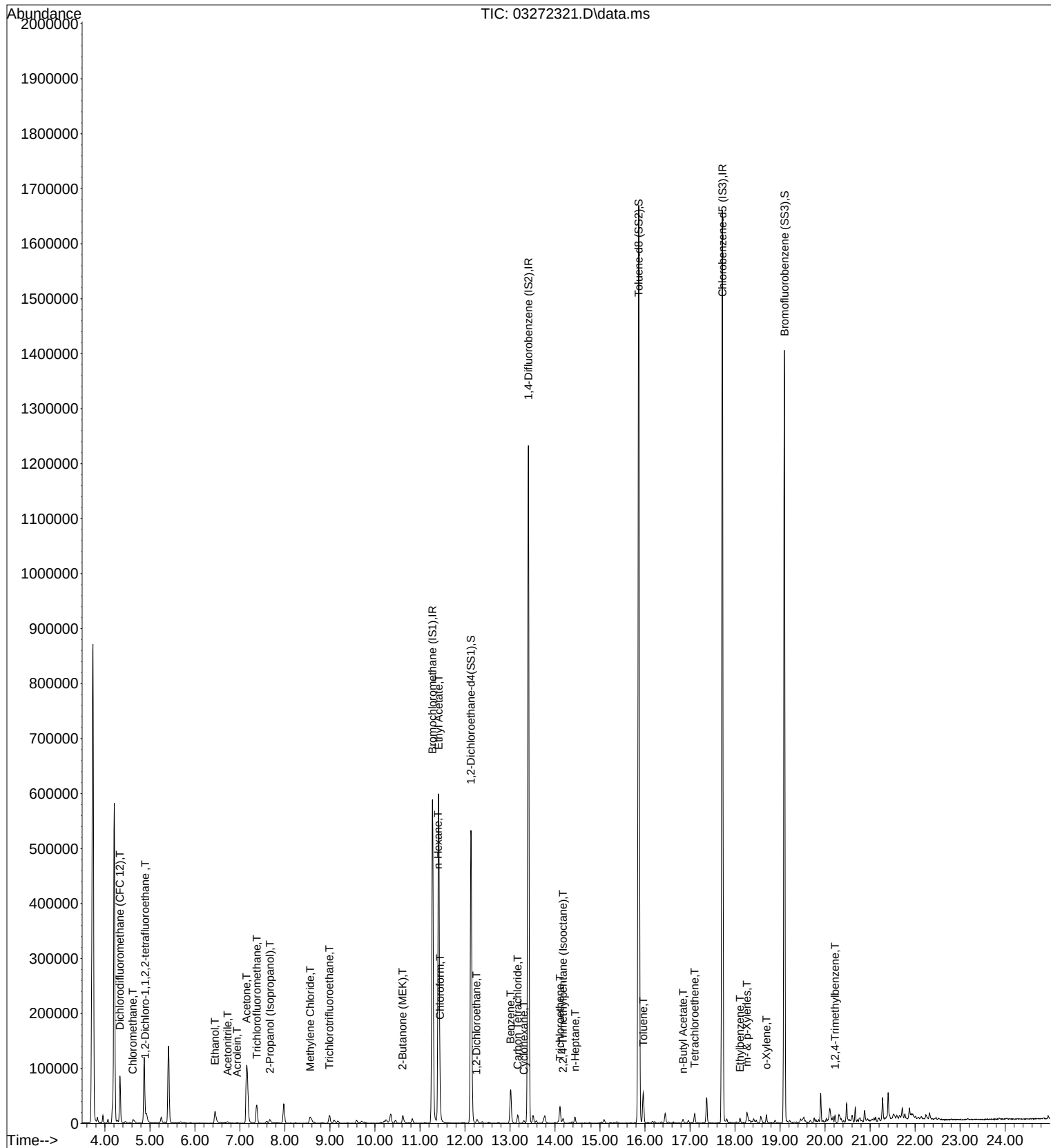
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.45	71	2772	0.121	ng	98
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	15.03	58	355	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.96	91	43597	0.494	ng	98
59) 2-Hexanone	0.00	43	0	N.D.	d	
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.84	43	6351	0.119	ng	94
63) n-Octane	16.96	57	993	N.D.		
64) Tetrachloroethene	17.10	166	5146	0.229	ng	97
65) Chlorobenzene	17.76	112	178	N.D.		
66) Ethylbenzene	18.11	91	7132	0.072	ng	96
67) m- & p-Xylenes	18.26	91	15266	0.194	ng	95
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.60	104	1941	N.D.		
70) o-Xylene	18.70	91	6155	0.079	ng	100
71) n-Nonane	18.89	43	2444	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	19.22	105	1267	N.D.		
75) alpha-Pinene	19.57	93	1007	N.D.		
76) n-Propylbenzene	19.67	91	1843	N.D.		
77) 3-Ethyltoluene	20.22	105	5801	No Calib	#	
78) 4-Ethyltoluene	19.80	105	1833	N.D.		
79) 1,3,5-Trimethylbenzene	19.86	105	1706	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.22	105	5801	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.22	105	5801	0.073	ng	85
83) n-Decane	20.31	58	107	No Calib	#	
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	20.41	146	107	N.D.		
86) 1,4-Dichlorobenzene	20.41	146	107	N.D.		
87) sec-Butylbenzene	20.46	105	330	N.D.		
88) 4-Isopropyltoluene (p-...	20.59	119	2496	N.D.		
89) 1,2,3-Trimethylbenzene	20.22	105	5801	No Calib	#	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	20.72	68	1080	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	21.40	58	594	No Calib	#	
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	22.33	128	1414	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	18.19	55	127	No Calib	#	
99) tert-Butylbenzene	20.22	119	882	N.D.		
100) n-Butylbenzene	20.96	91	1389	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\27\03272321.D
Acq On : 27 Mar 2023 16:46
Sample : P2301250-038 (1000mL)
Misc : S35-01312301

Vial: 6
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 19:28:18 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



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3/27/23

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QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:TO15B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	242789	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	1107858	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.72	54	230017	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.13	65	408256	12.644	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	101.12%
57) Toluene-d8 (SS2)	15.86	98	1242986	12.343	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	98.72%
73) Bromofluorobenzene (SS3)	19.10	174	401966	12.798	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.40%

Target Compounds

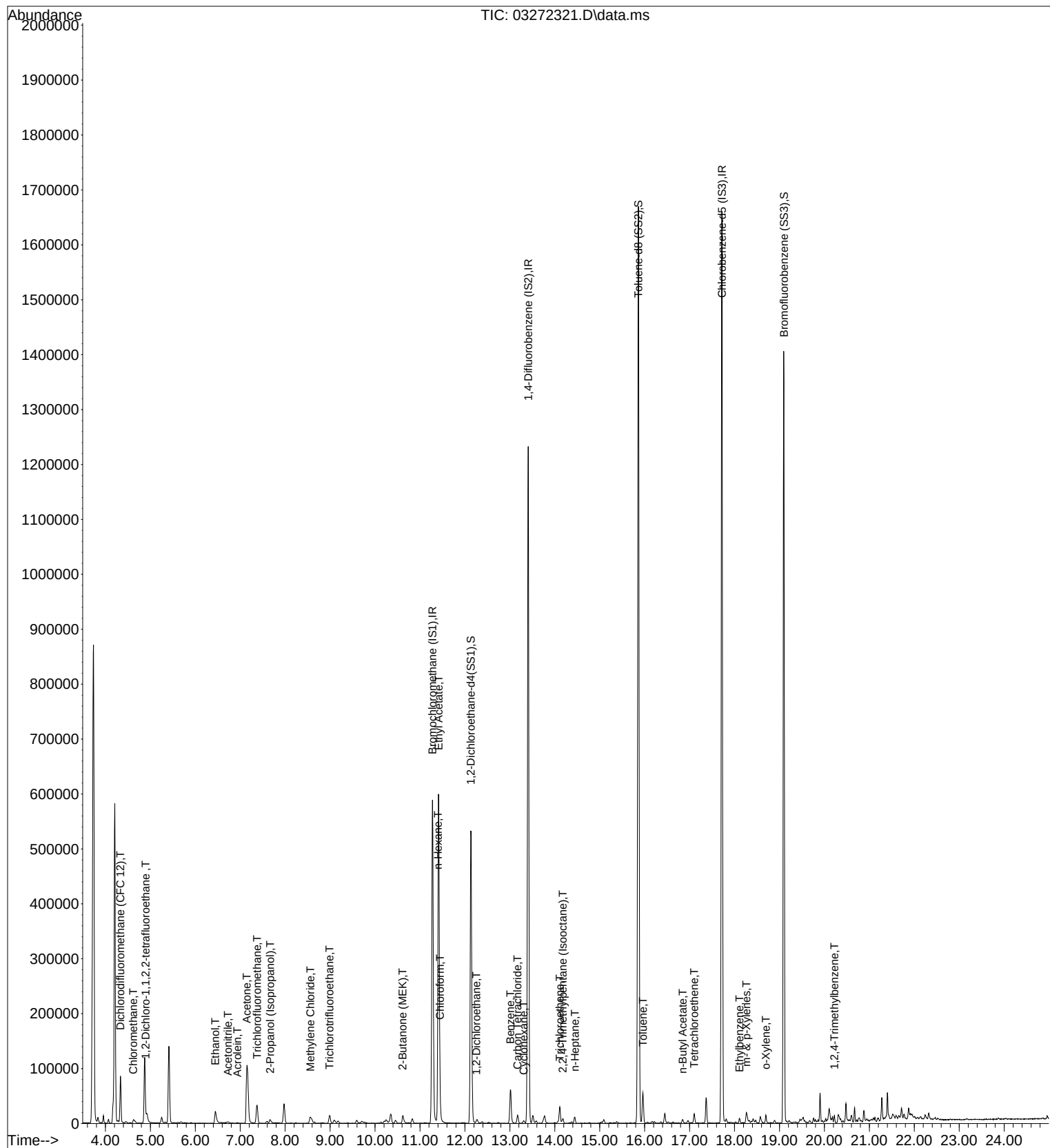
						Qvalue
3) Dichlorodifluoromethan...	4.33	85	72893	2.009	ng	100
4) Chloromethane	4.62	50	5669	0.167	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	4.89	135	1729	0.085	ng	95
10) Ethanol	6.45	45	40558	1.736	ng	95
11) Acetonitrile	6.73	41	3471	0.059	ng	95
12) Acrolein	6.93	56	1403	0.085	ng	98
13) Acetone	7.14	58	42857	2.398	ng	# 75
14) Trichlorofluoromethane	7.37	101	33072	0.988	ng	99
15) 2-Propanol (Isopropanol)	7.67	45	14730	0.237	ng	99
19) Methylene Chloride	8.56	84	6033	0.305	ng	84
21) Trichlorotrifluoroethane	8.99	151	6393	0.383	ng	94
27) 2-Butanone (MEK)	10.61	72	5566	0.430	ng	97
30) Ethyl Acetate	11.42	61	107361	12.671	ng	99
31) n-Hexane	11.40	57	8054	0.190	ng	95
32) Chloroform	11.44	83	5374	0.166	ng	98
36) 1,2-Dichloroethane	12.25	62	1675	0.064	ng	84
41) Benzene	13.01	78	51801	0.664	ng	99
42) Carbon Tetrachloride	13.17	117	8882	0.350	ng	94
43) Cyclohexane	13.31	84	1802	0.055	ng	94
47) Trichloroethene	14.11	130	10694	0.504	ng	97
49) 2,2,4-Trimethylpentane...	14.18	57	7813	0.074	ng	76
51) n-Heptane	14.45	71	2772	0.121	ng	98
58) Toluene	15.96	91	43597	0.494	ng	98
62) n-Butyl Acetate	16.84	43	6351	0.119	ng	94
64) Tetrachloroethene	17.10	166	5146	0.229	ng	97
66) Ethylbenzene	18.11	91	7132	0.072	ng	96
67) m- & p-Xylenes	18.26	91	15266	0.194	ng	95
70) o-Xylene	18.70	91	6155	0.079	ng	100
82) 1,2,4-Trimethylbenzene	20.22	105	5801	0.073	ng	85

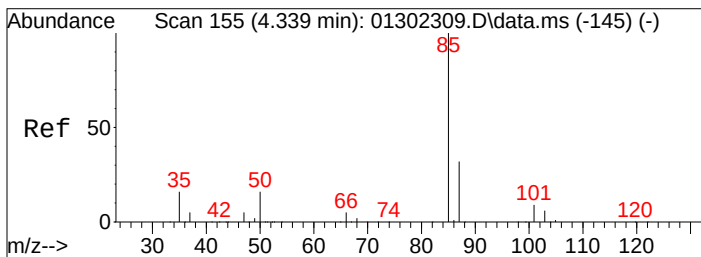
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS16\DATA\2023_03\27\03272321.D
Acq On : 27 Mar 2023 16:46
Sample : P2301250-038 (1000mL)
Misc : S35-01312301

Vial: 6
Operator: WA
Inst : GCMS-16

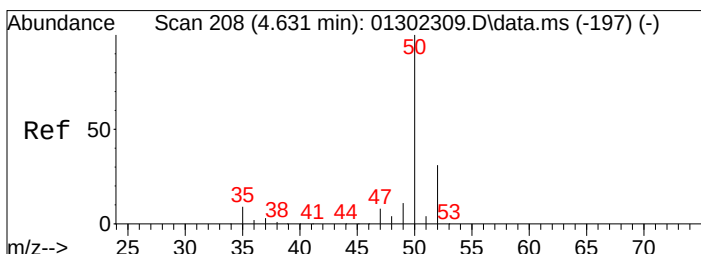
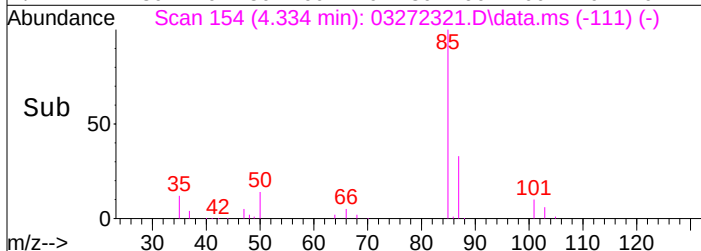
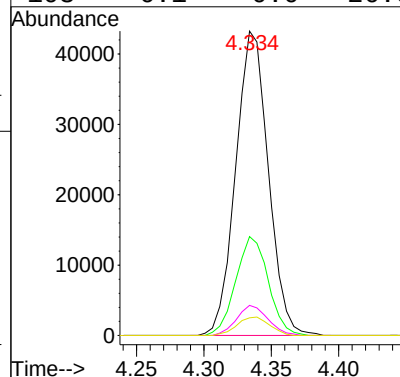
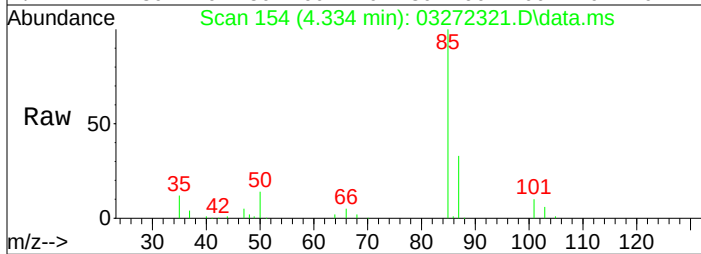
Quant Time: Mar 27 19:28:18 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M





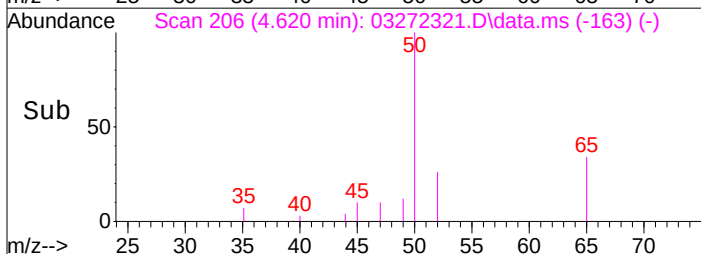
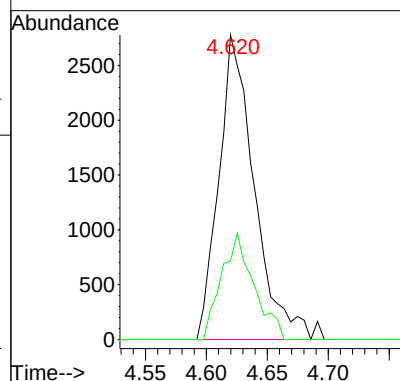
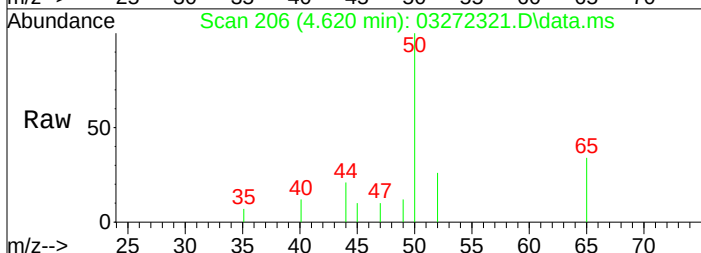
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 2.01 ng
 RT: 4.33 min Scan# 154
 Delta R.T. -0.016 min
 Lab File: 03272321.D
 Acq: 27 Mar 2023 16:46

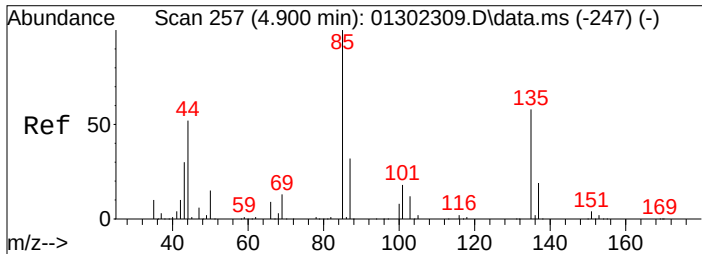
Tgt Ion:	85	Resp:	72893
Ion Ratio	Lower	Upper	
85	100		
87	32.3	12.1	52.1
101	9.5	0.0	29.3
103	6.1	0.0	26.0



#4
 Chloromethane
 Concen: 0.17 ng
 RT: 4.62 min Scan# 206
 Delta R.T. -0.016 min
 Lab File: 03272321.D
 Acq: 27 Mar 2023 16:46

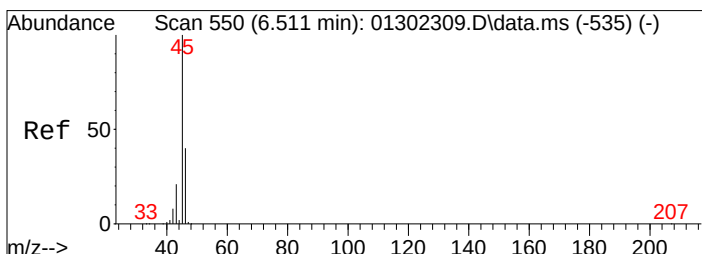
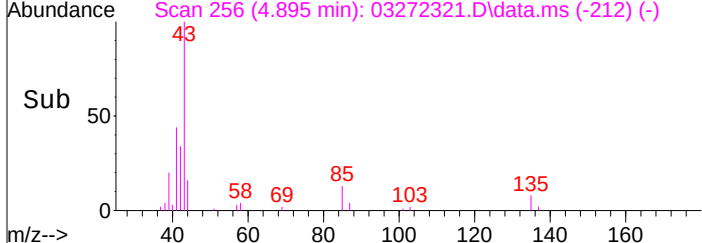
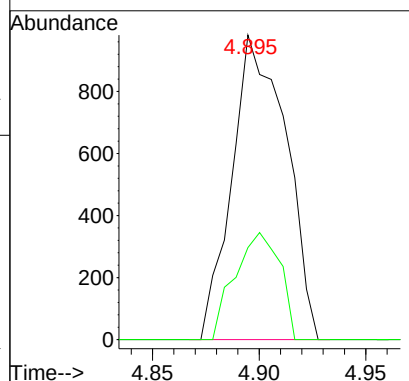
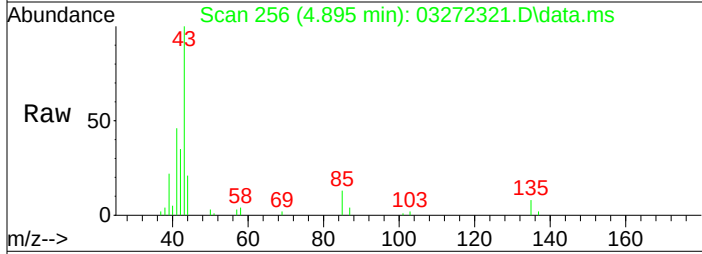
Tgt Ion:	50	Resp:	5669
Ion Ratio	Lower	Upper	
50	100		
52	31.6	12.2	52.2





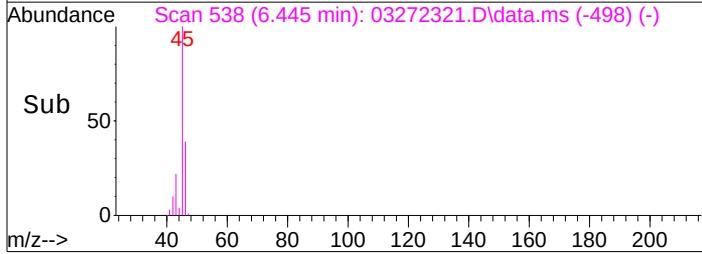
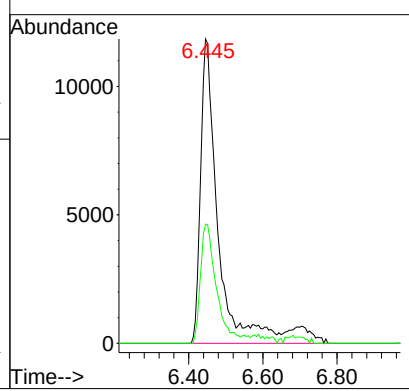
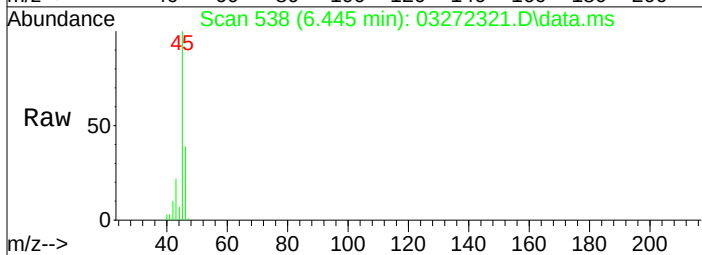
#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.09 ng
 RT: 4.89 min Scan# 256
 Delta R.T. -0.011 min
 Lab File: 03272321.D
 Acq: 27 Mar 2023 16:46

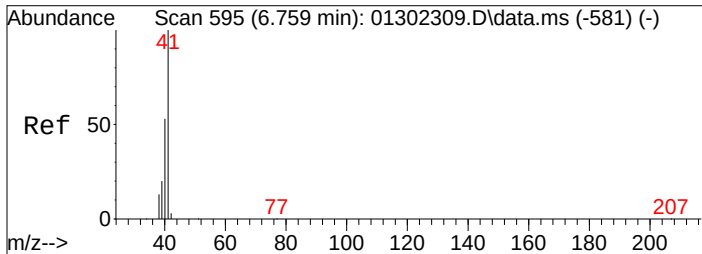
Tgt Ion:	135	Resp:	1729
Ion Ratio		Lower	Upper
135	100		
137	29.4	12.0	52.0



#10
 Ethanol
 Concen: 1.74 ng
 RT: 6.45 min Scan# 538
 Delta R.T. -0.033 min
 Lab File: 03272321.D
 Acq: 27 Mar 2023 16:46

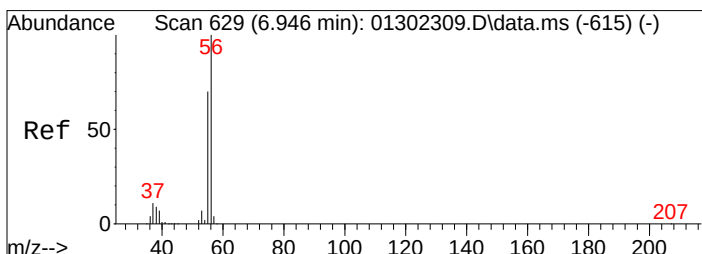
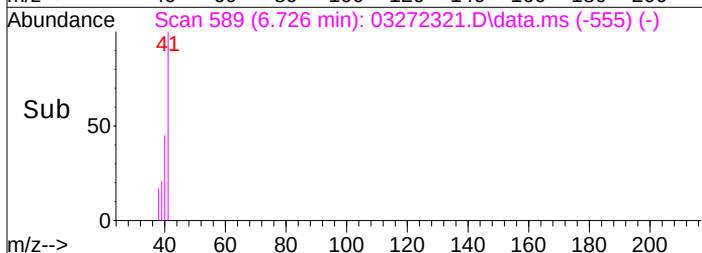
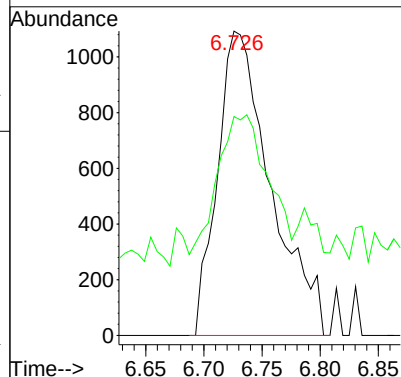
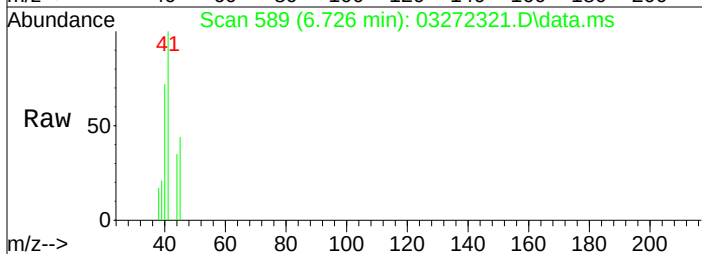
Tgt Ion:	45	Resp:	40558
Ion Ratio		Lower	Upper
45	100		
46	37.4	20.5	60.5





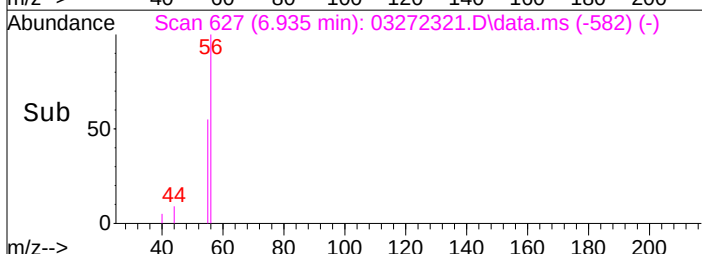
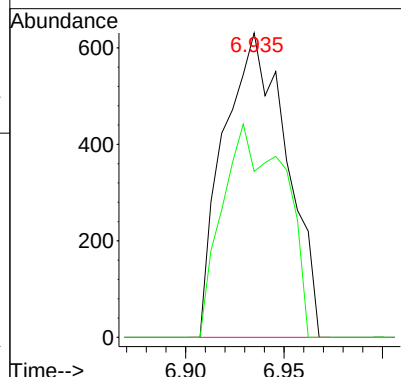
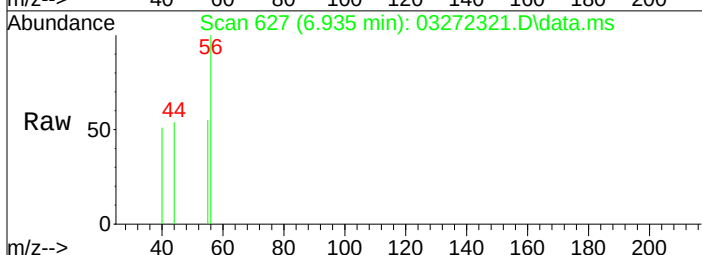
#11
Acetonitrile
Concen: 0.06 ng
RT: 6.73 min Scan# 589
Delta R.T. -0.011 min
Lab File: 03272321.D
Acq: 27 Mar 2023 16:46

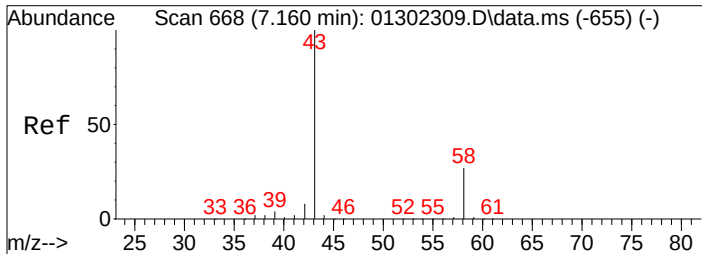
Tgt Ion: 41 Resp: 3471
Ion Ratio Lower Upper
41 100
40 56.0 32.4 72.4



#12
Acrolein
Concen: 0.08 ng
RT: 6.93 min Scan# 627
Delta R.T. -0.000 min
Lab File: 03272321.D
Acq: 27 Mar 2023 16:46

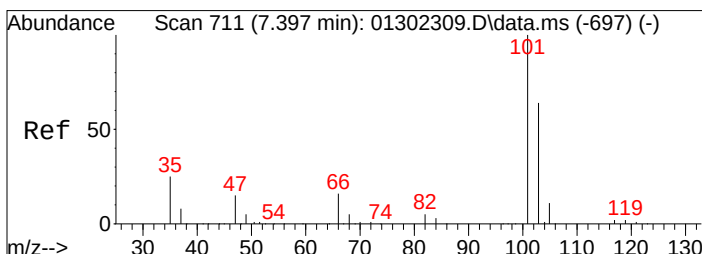
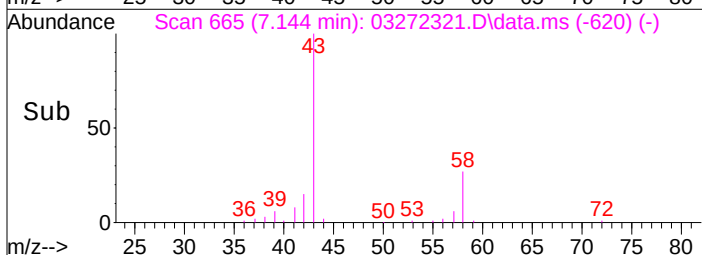
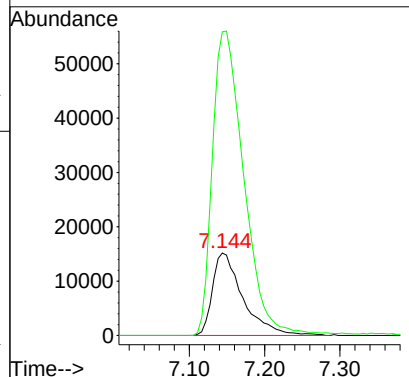
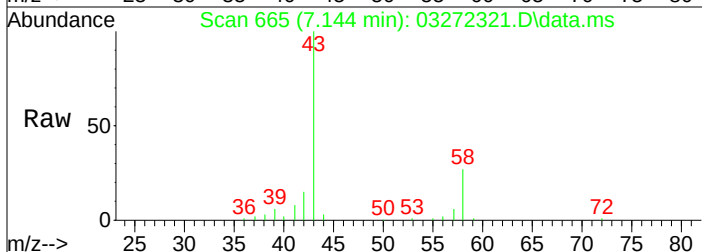
Tgt Ion: 56 Resp: 1403
Ion Ratio Lower Upper
56 100
55 68.6 49.9 89.9





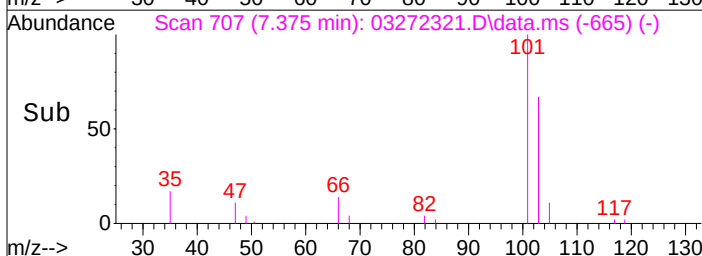
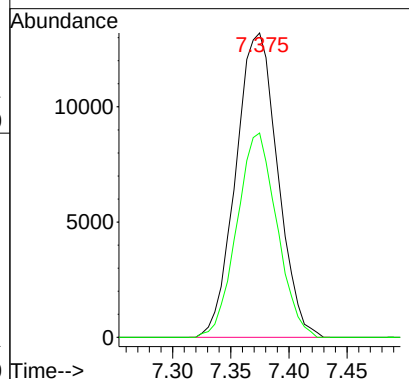
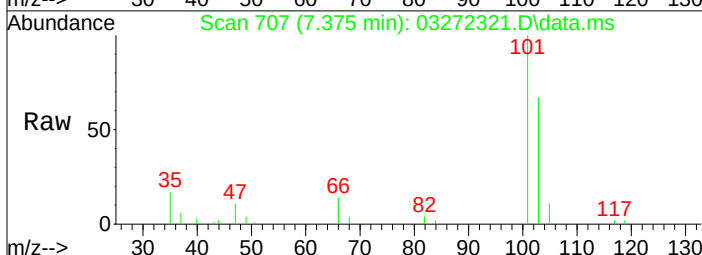
#13
 Acetone
 Concen: 2.40 ng
 RT: 7.14 min Scan# 665
 Delta R.T. -0.000 min
 Lab File: 03272321.D
 Acq: 27 Mar 2023 16:46

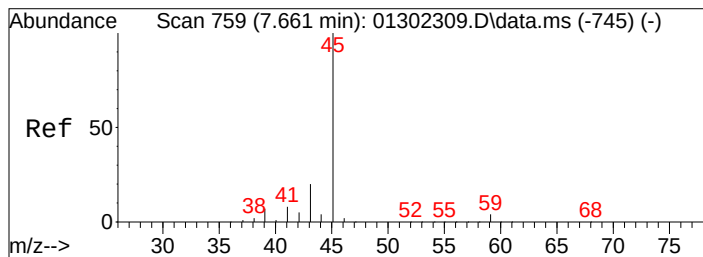
Tgt Ion	Ratio	Lower	Upper
58	100		
43	381.5	298.5	358.5#



#14
 Trichlorofluoromethane
 Concen: 0.99 ng
 RT: 7.37 min Scan# 707
 Delta R.T. -0.022 min
 Lab File: 03272321.D
 Acq: 27 Mar 2023 16:46

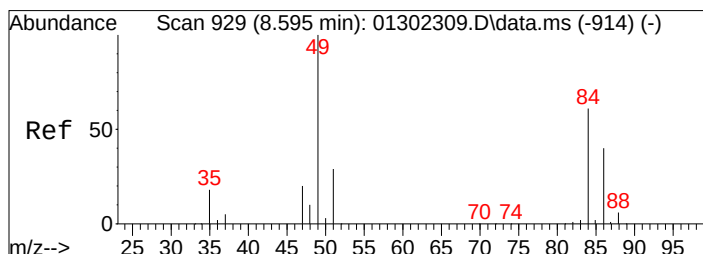
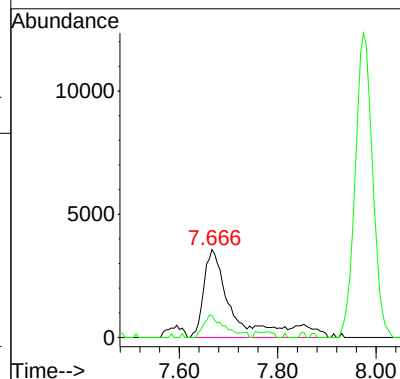
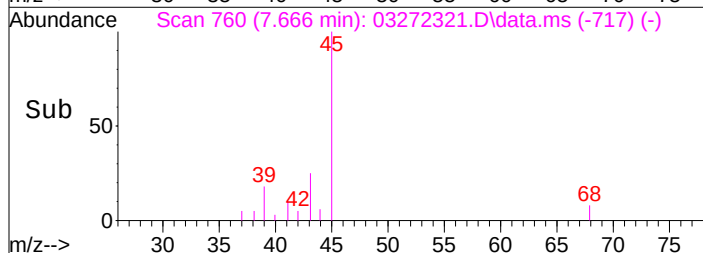
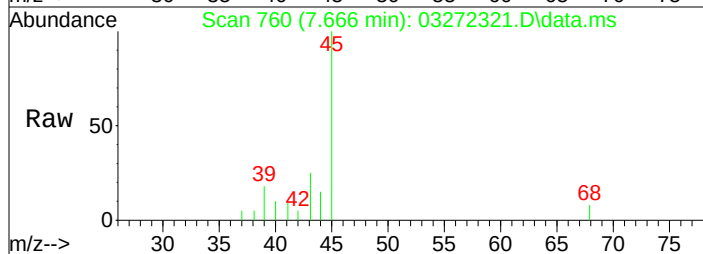
Tgt Ion	Ratio	Lower	Upper
101	100		
103	64.2	44.8	84.8





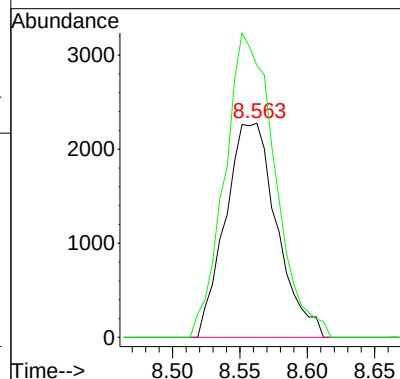
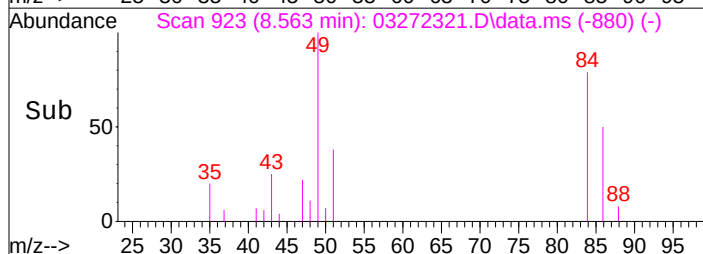
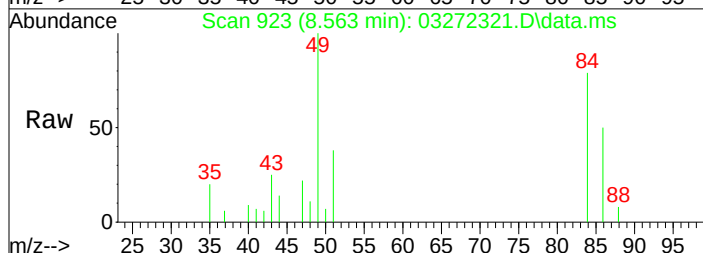
#15
2-Propanol (Isopropanol)
Concen: 0.24 ng
RT: 7.67 min Scan# 760
Delta R.T. -0.014 min
Lab File: 03272321.D
Acq: 27 Mar 2023 16:46

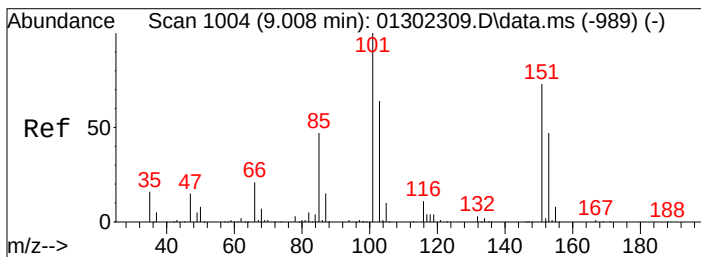
Tgt Ion: 45 Resp: 14730
Ion Ratio Lower Upper
45 100
43 18.5 0.0 37.9



#19
Methylene Chloride
Concen: 0.31 ng
RT: 8.56 min Scan# 923
Delta R.T. -0.016 min
Lab File: 03272321.D
Acq: 27 Mar 2023 16:46

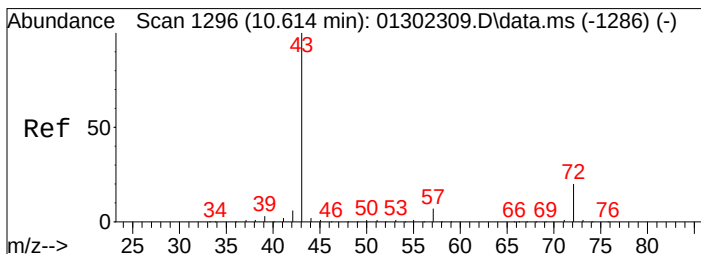
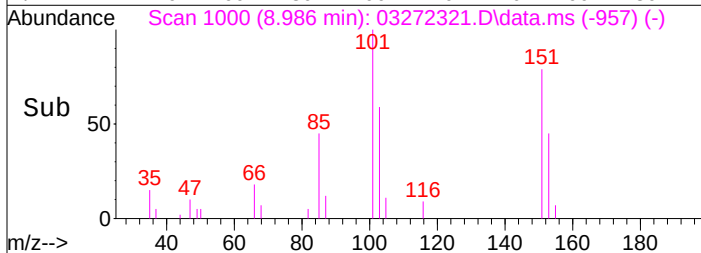
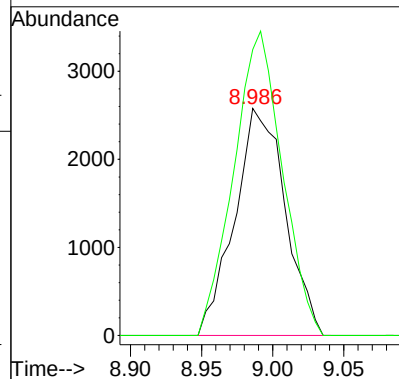
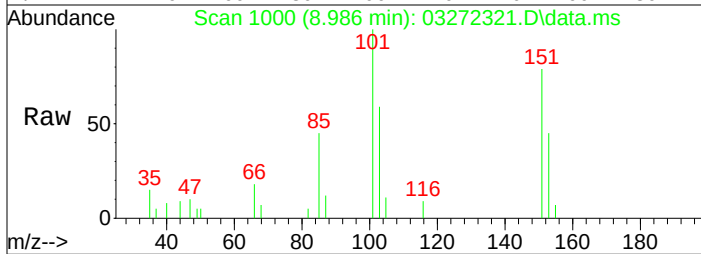
Tgt Ion: 84 Resp: 6033
Ion Ratio Lower Upper
84 100
49 138.9 135.0 185.0





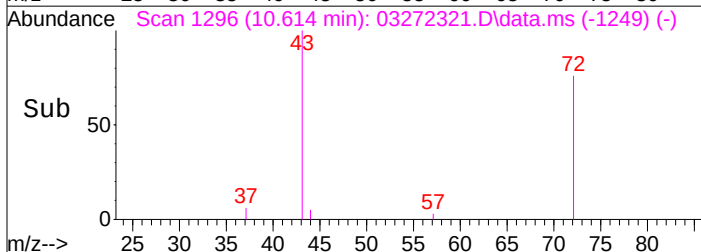
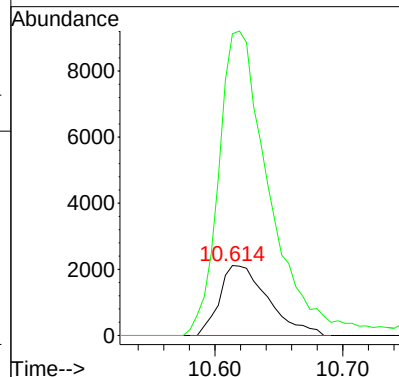
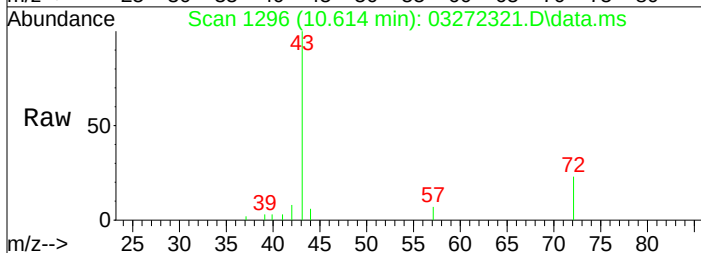
#21
 Trichlorotrifluoroethane
 Concen: 0.38 ng
 RT: 8.99 min Scan# 1000
 Delta R.T. -0.016 min
 Lab File: 03272321.D
 Acq: 27 Mar 2023 16:46

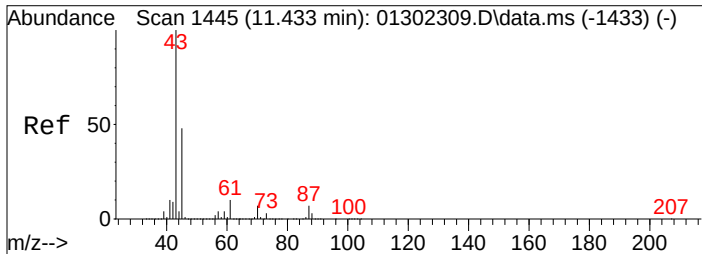
Tgt Ion: 151 Resp: 6393
 Ion Ratio Lower Upper
 151 100
 101 128.3 101.5 141.5



#27
 2-Butanone (MEK)
 Concen: 0.43 ng
 RT: 10.61 min Scan# 1296
 Delta R.T. 0.006 min
 Lab File: 03272321.D
 Acq: 27 Mar 2023 16:46

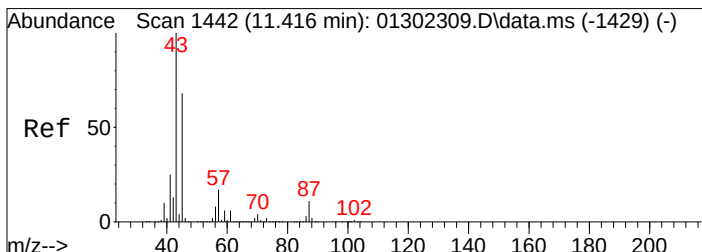
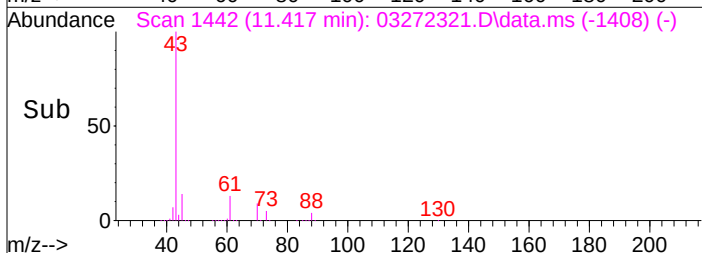
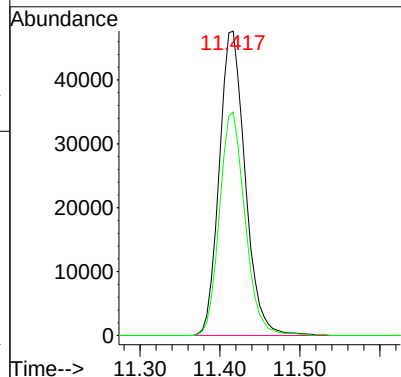
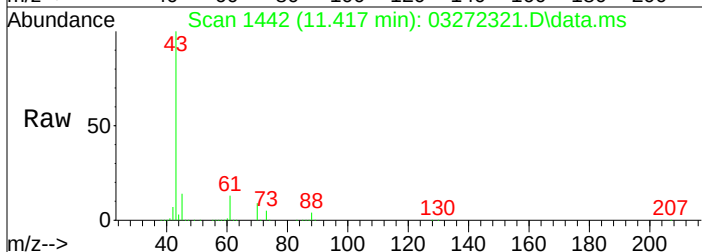
Tgt Ion: 72 Resp: 5566
 Ion Ratio Lower Upper
 72 100
 43 462.0 449.4 489.4





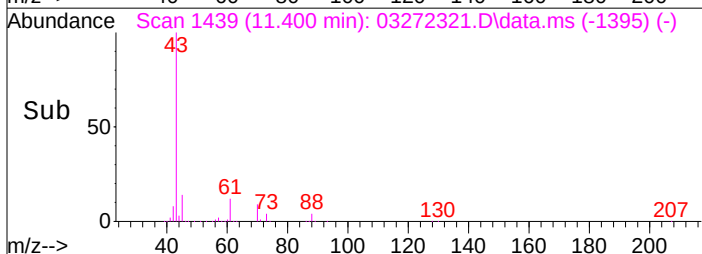
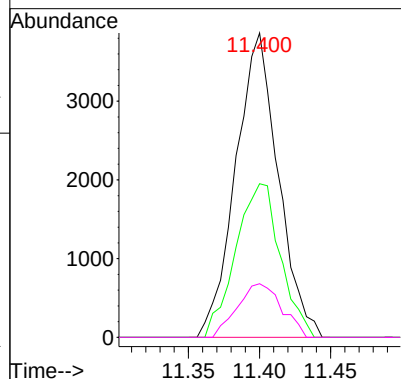
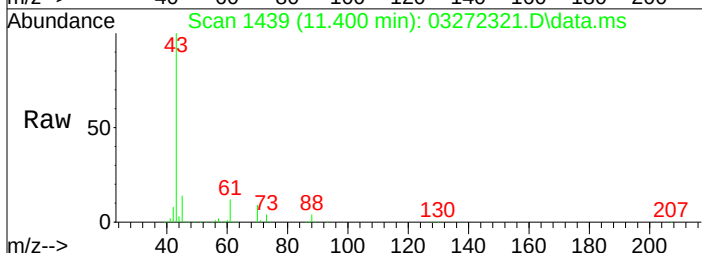
#30
Ethyl Acetate
Concen: 12.67 ng
RT: 11.42 min Scan# 1442
Delta R.T. -0.011 min
Lab File: 03272321.D
Acq: 27 Mar 2023 16:46

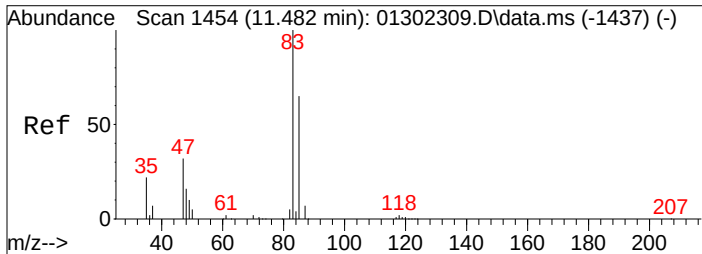
Tgt Ion: 61 Resp: 107361
Ion Ratio Lower Upper
61 100
70 72.2 52.8 92.8



#31
n-Hexane
Concen: 0.19 ng
RT: 11.40 min Scan# 1439
Delta R.T. -0.011 min
Lab File: 03272321.D
Acq: 27 Mar 2023 16:46

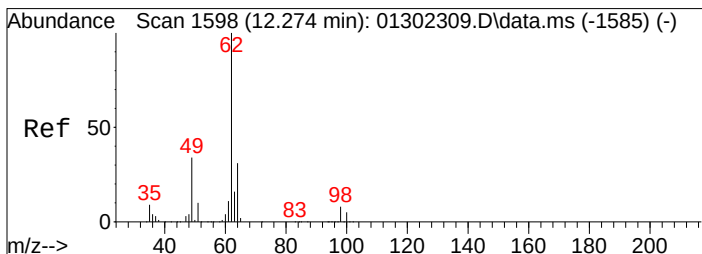
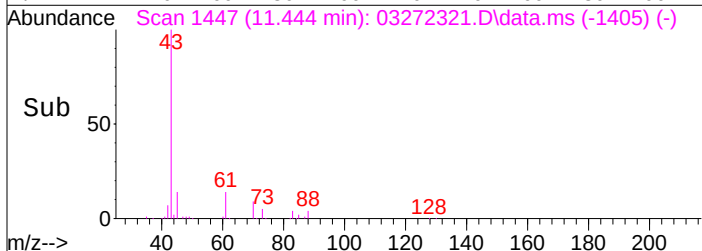
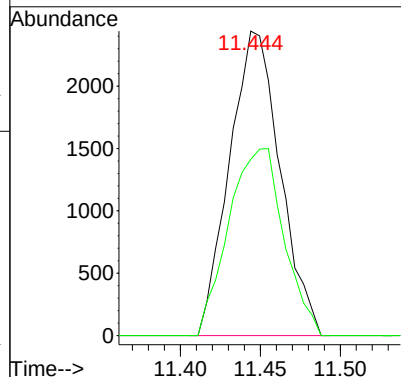
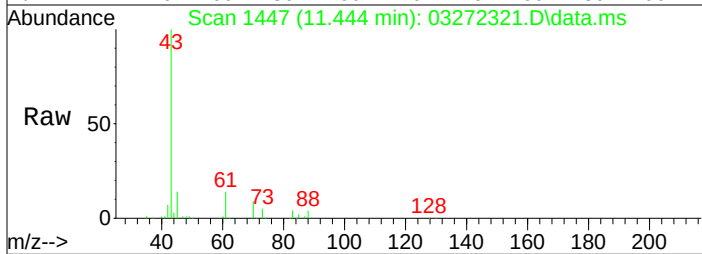
Tgt Ion: 57 Resp: 8054
Ion Ratio Lower Upper
57 100
56 52.8 39.9 59.9
86 18.4 12.3 18.5





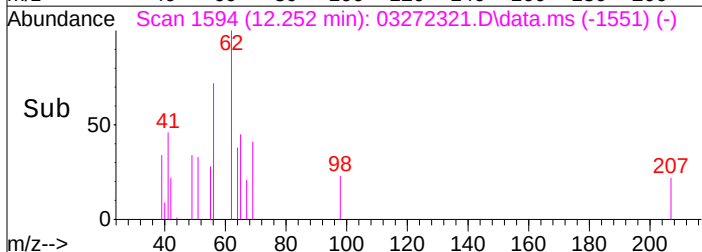
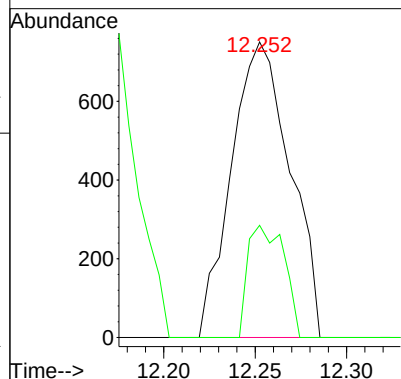
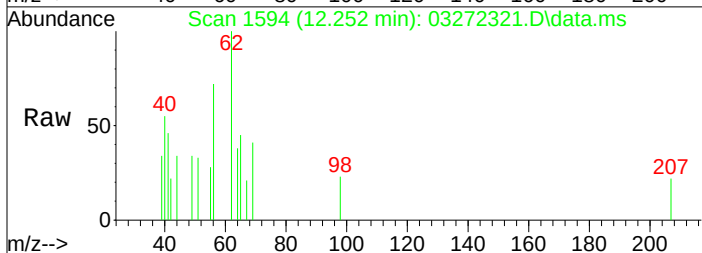
#32
Chloroform
Concen: 0.17 ng
RT: 11.44 min Scan# 1447
Delta R.T. -0.022 min
Lab File: 03272321.D
Acq: 27 Mar 2023 16:46

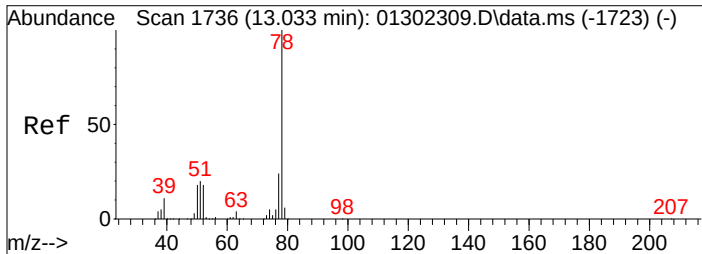
Tgt Ion: 83 Resp: 5374
Ion Ratio Lower Upper
83 100
85 67.0 45.5 85.5



#36
1,2-Dichloroethane
Concen: 0.06 ng
RT: 12.25 min Scan# 1594
Delta R.T. -0.016 min
Lab File: 03272321.D
Acq: 27 Mar 2023 16:46

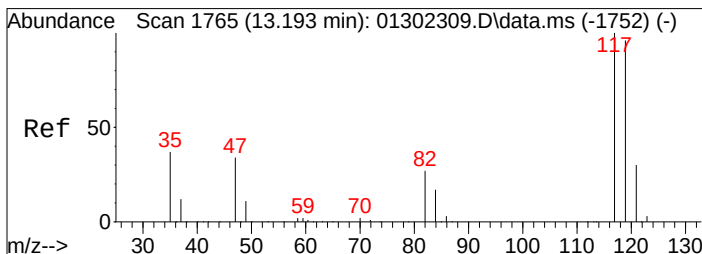
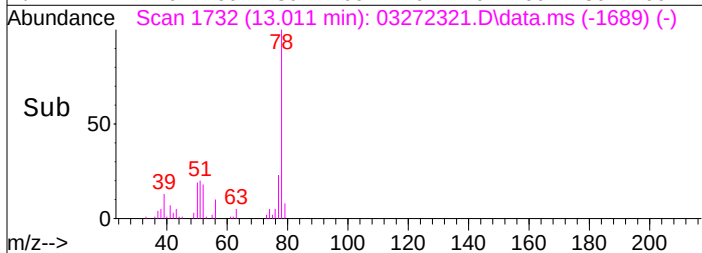
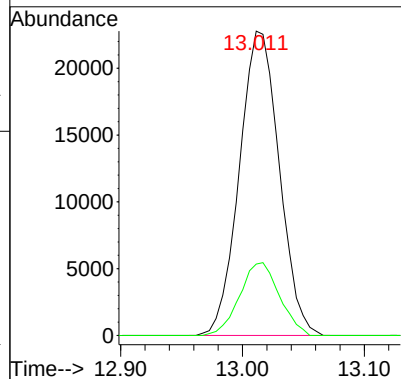
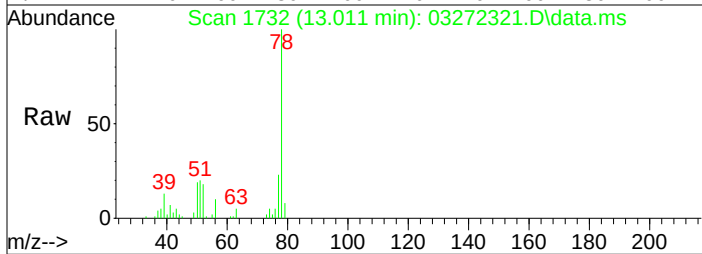
Tgt Ion: 62 Resp: 1675
Ion Ratio Lower Upper
62 100
64 23.4 12.5 52.5





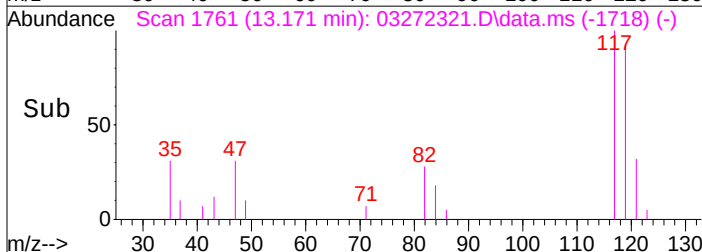
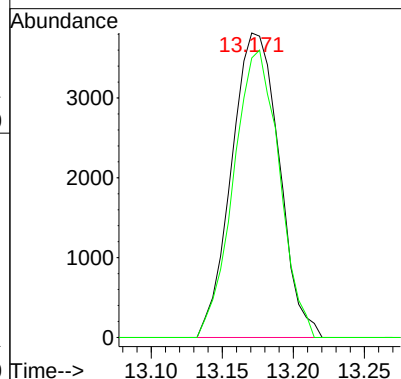
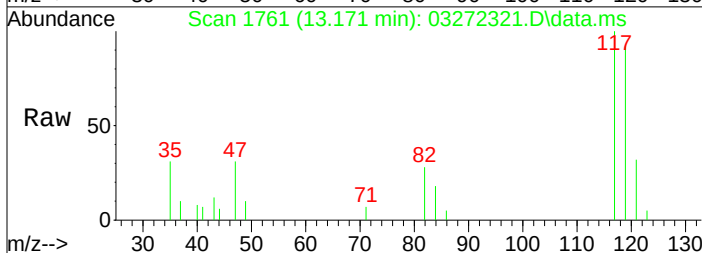
#41
Benzene
Concen: 0.66 ng
RT: 13.01 min Scan# 1732
Delta R.T. -0.016 min
Lab File: 03272321.D
Acq: 27 Mar 2023 16:46

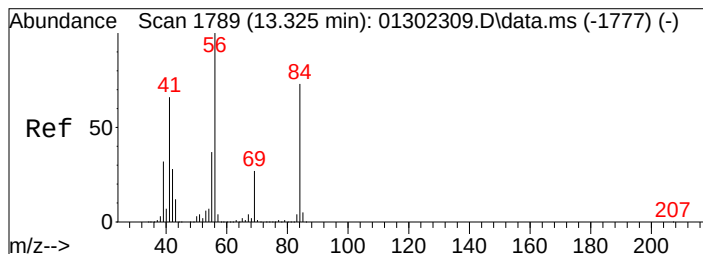
Tgt Ion: 78 Resp: 51801
Ion Ratio Lower Upper
78 100
77 23.9 3.3 43.3



#42
Carbon Tetrachloride
Concen: 0.35 ng
RT: 13.17 min Scan# 1761
Delta R.T. -0.016 min
Lab File: 03272321.D
Acq: 27 Mar 2023 16:46

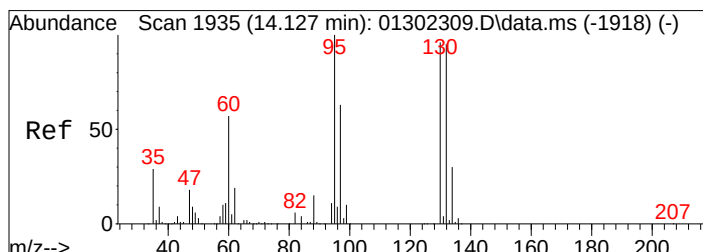
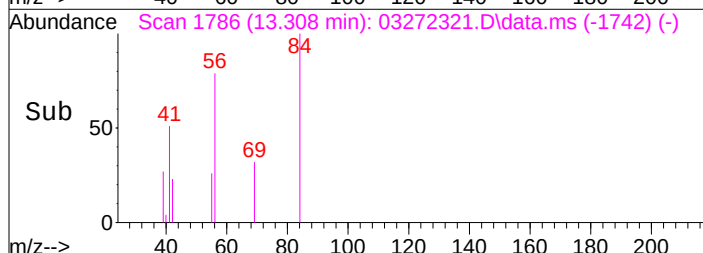
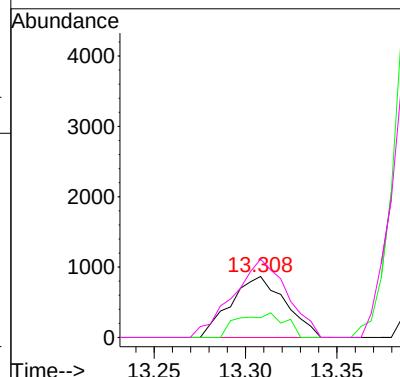
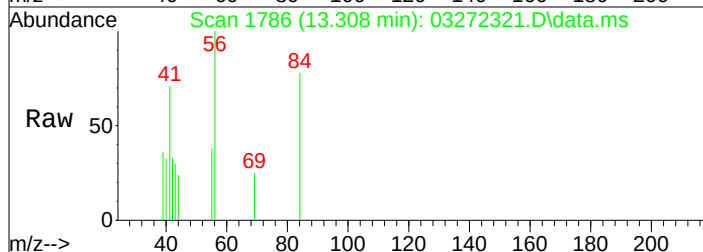
Tgt Ion: 117 Resp: 8882
Ion Ratio Lower Upper
117 100
119 90.8 76.2 116.2





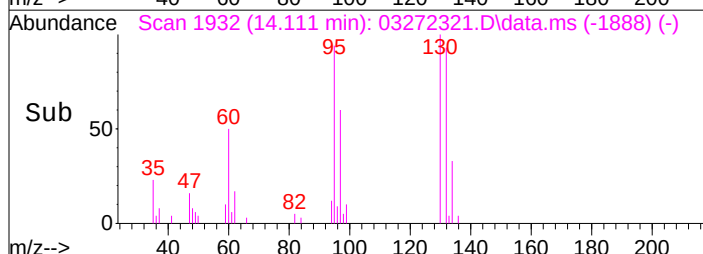
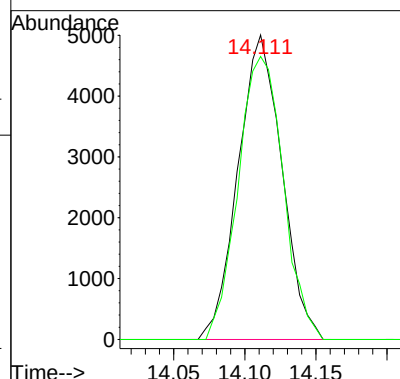
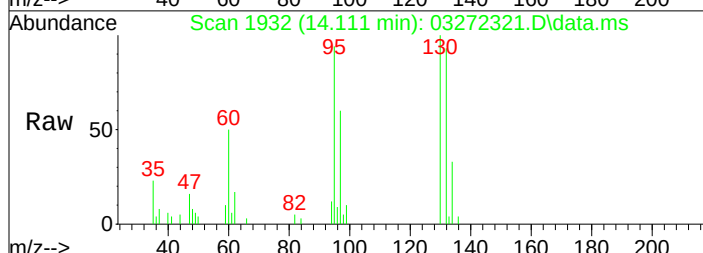
#43
Cyclohexane
Concen: 0.05 ng
RT: 13.31 min Scan# 1786
Delta R.T. -0.011 min
Lab File: 03272321.D
Acq: 27 Mar 2023 16:46

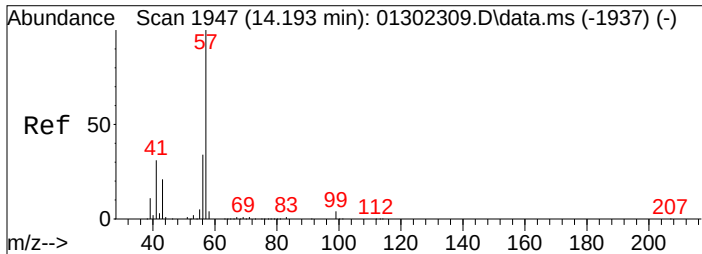
Tgt Ion: 84 Resp: 1802
Ion Ratio Lower Upper
84 100
69 34.8 16.2 56.2
56 127.5 115.2 155.2



#47
Trichloroethene
Concen: 0.50 ng
RT: 14.11 min Scan# 1932
Delta R.T. -0.011 min
Lab File: 03272321.D
Acq: 27 Mar 2023 16:46

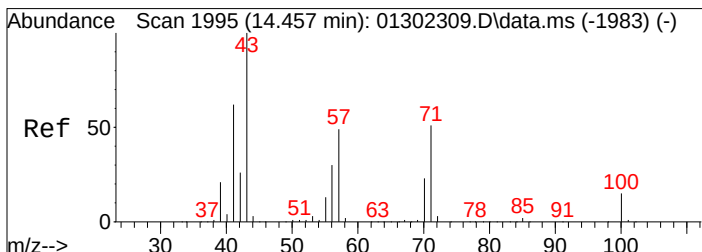
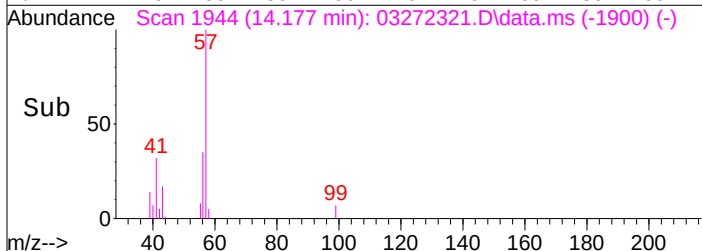
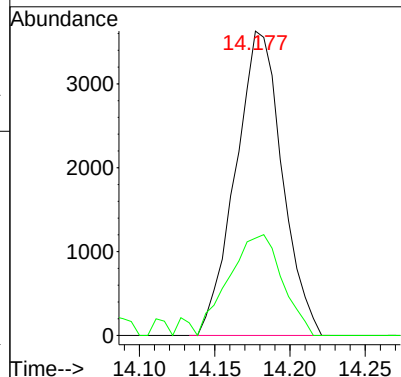
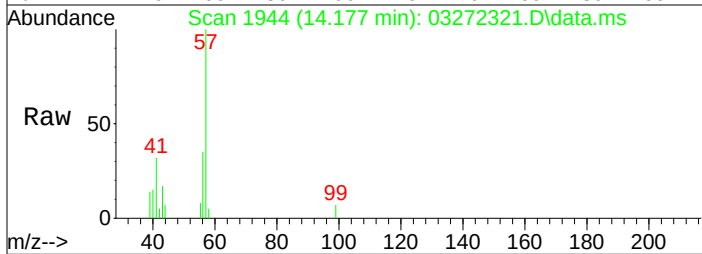
Tgt Ion: 130 Resp: 10694
Ion Ratio Lower Upper
130 100
132 95.9 78.7 118.7





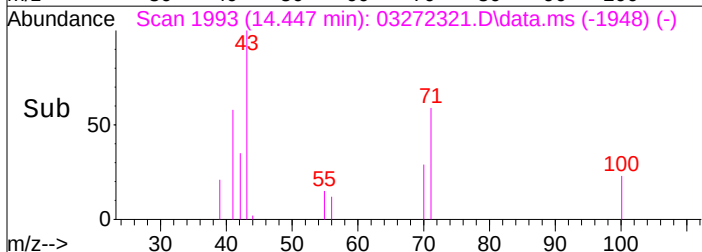
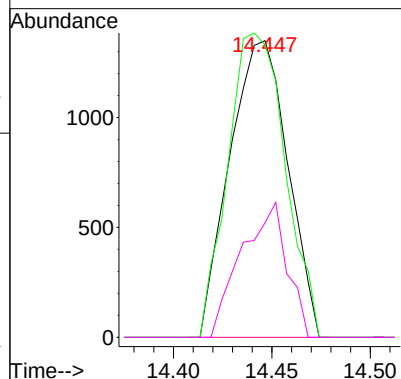
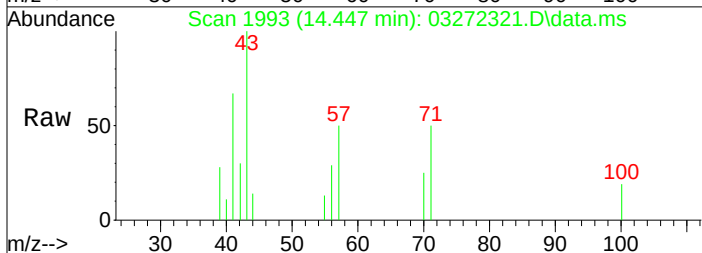
#49
2,2,4-Trimethylpentane (Isooctane)
Concen: 0.07 ng
RT: 14.18 min Scan# 1944
Delta R.T. -0.011 min
Lab File: 03272321.D
Acq: 27 Mar 2023 16:46

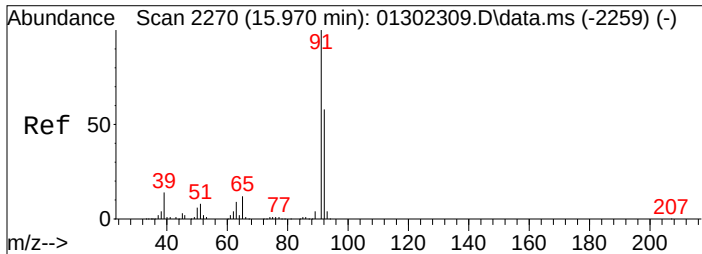
Tgt Ion:	57	Resp:	7813
Ion Ratio		Lower	Upper
57	100		
41	37.9	5.8	45.8



#51
n-Heptane
Concen: 0.12 ng
RT: 14.45 min Scan# 1993
Delta R.T. -0.005 min
Lab File: 03272321.D
Acq: 27 Mar 2023 16:46

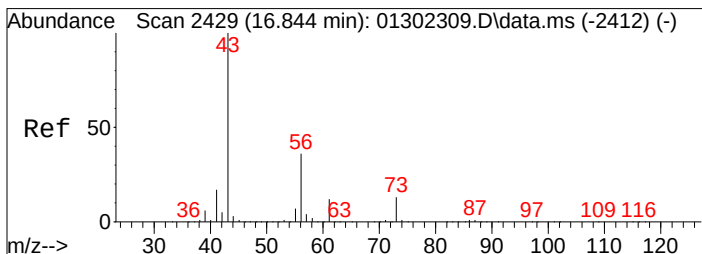
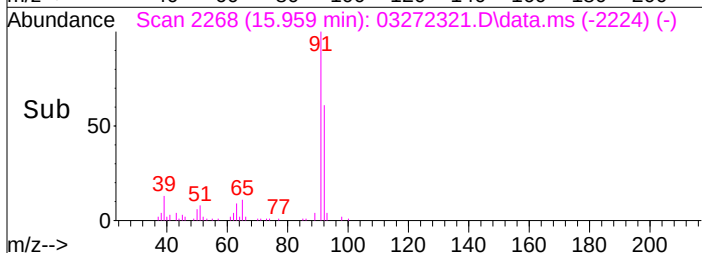
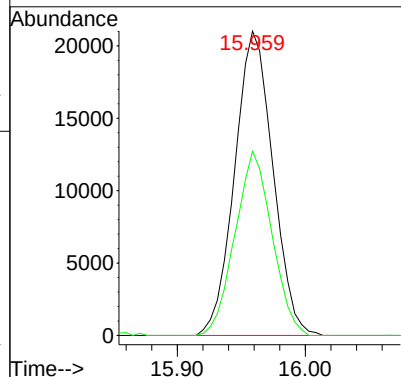
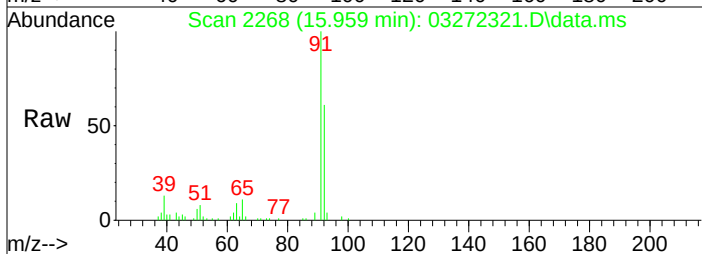
Tgt Ion:	71	Resp:	2772
Ion Ratio		Lower	Upper
71	100		
57	101.3	81.4	121.4
100	35.6	11.8	51.8





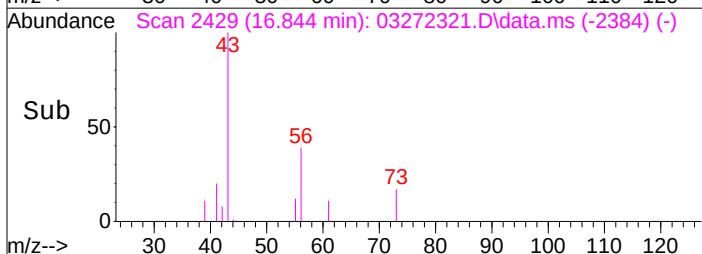
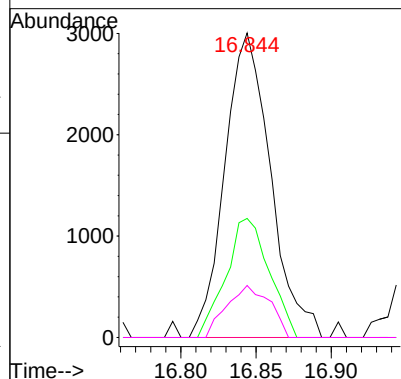
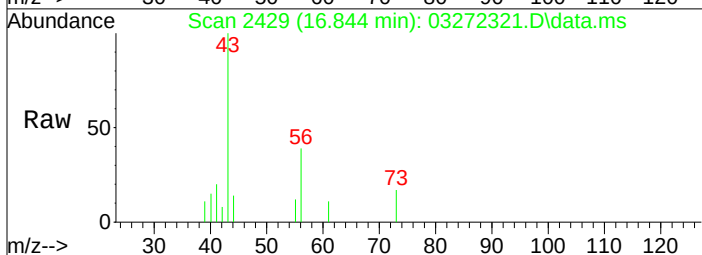
#58
Toluene
Concen: 0.49 ng
RT: 15.96 min Scan# 2268
Delta R.T. -0.011 min
Lab File: 03272321.D
Acq: 27 Mar 2023 16:46

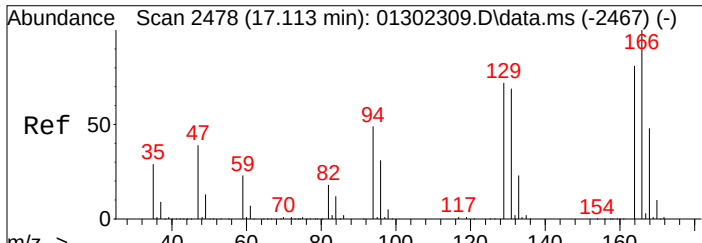
Tgt Ion: 91 Resp: 43597
Ion Ratio Lower Upper
91 100
92 58.6 39.8 79.8



#62
n-Butyl Acetate
Concen: 0.12 ng
RT: 16.84 min Scan# 2429
Delta R.T. 0.000 min
Lab File: 03272321.D
Acq: 27 Mar 2023 16:46

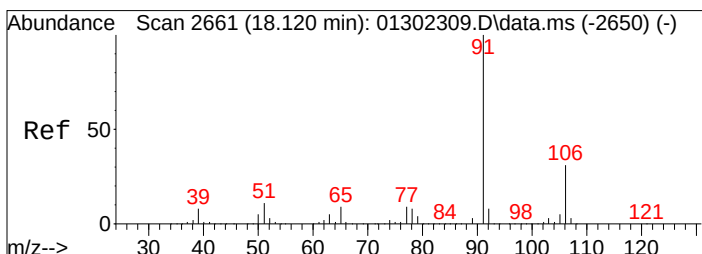
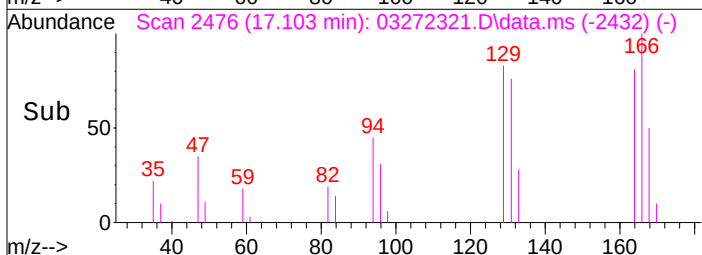
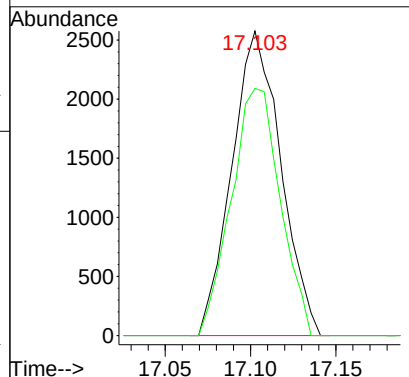
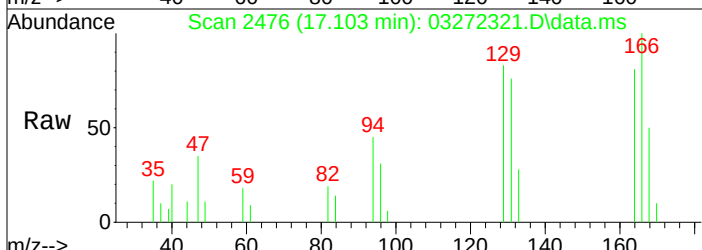
Tgt Ion: 43 Resp: 6351
Ion Ratio Lower Upper
43 100
56 36.8 21.0 61.0
73 16.0 0.0 34.3





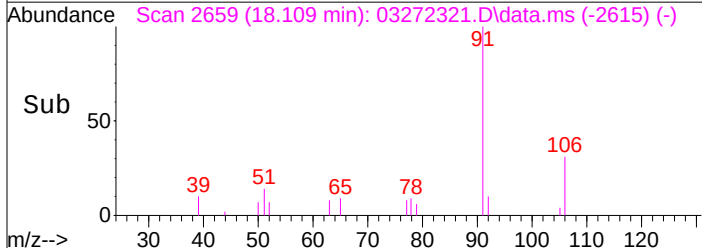
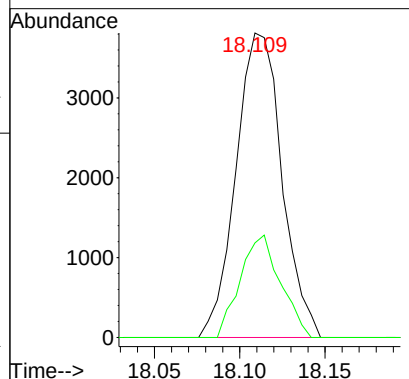
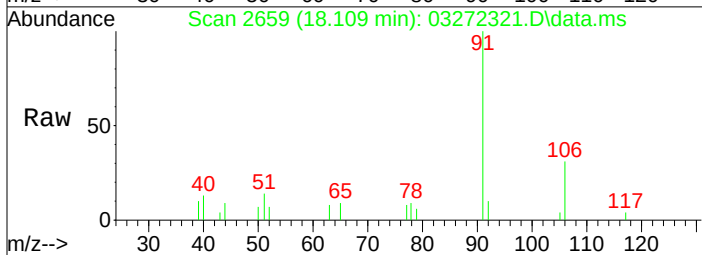
#64
 Tetrachloroethene
 Concen: 0.23 ng
 RT: 17.10 min Scan# 2476
 Delta R.T. -0.011 min
 Lab File: 03272321.D
 Acq: 27 Mar 2023 16:46

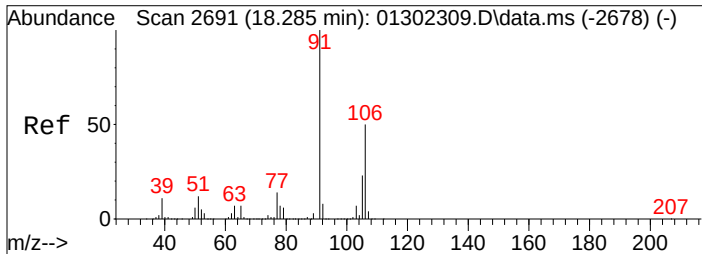
Tgt Ion: 166	Resp: 5146
Ion Ratio	Lower Upper
166	100
164	81.1 58.7 98.7



#66
 Ethylbenzene
 Concen: 0.07 ng
 RT: 18.11 min Scan# 2659
 Delta R.T. -0.011 min
 Lab File: 03272321.D
 Acq: 27 Mar 2023 16:46

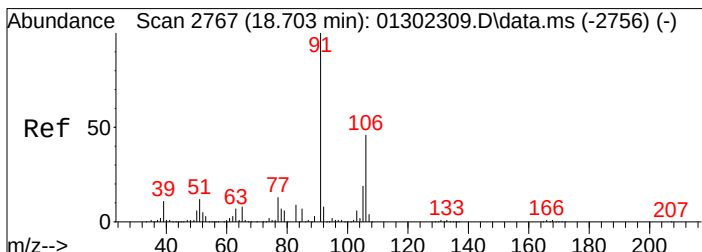
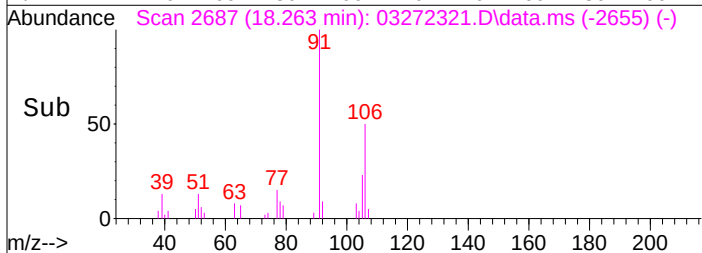
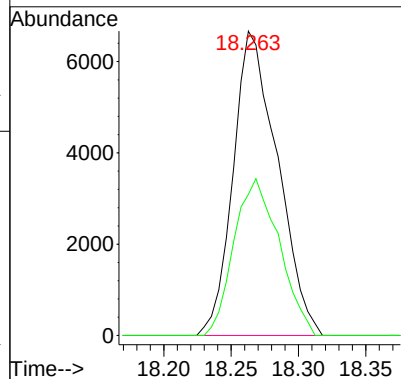
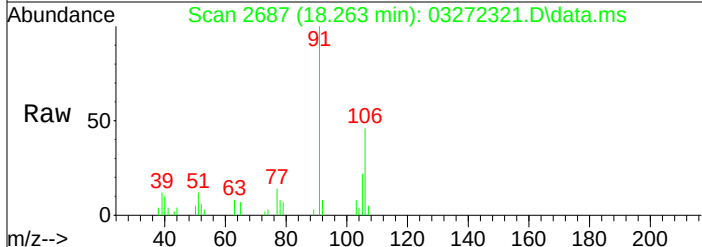
Tgt Ion: 91	Resp: 7132
Ion Ratio	Lower Upper
91	100
106	29.4 11.5 51.5





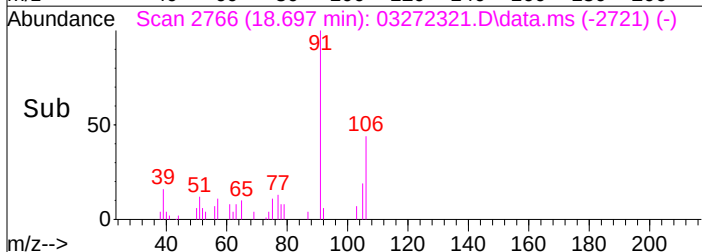
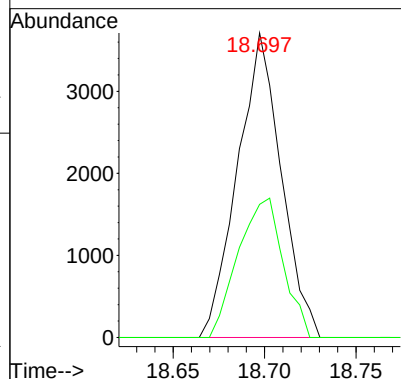
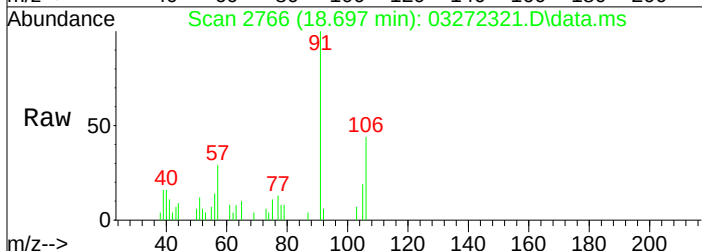
#67
 m- & p-Xylenes
 Concen: 0.19 ng
 RT: 18.26 min Scan# 2687
 Delta R.T. -0.022 min
 Lab File: 03272321.D
 Acq: 27 Mar 2023 16:46

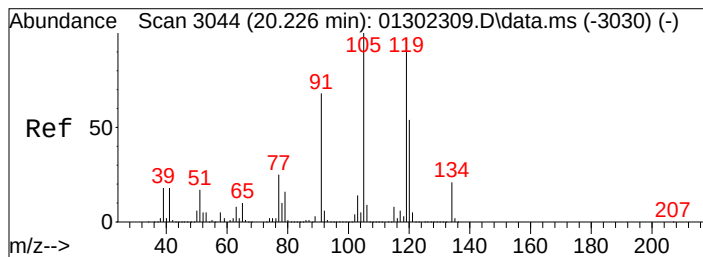
Tgt Ion:	91	Resp:	15266
Ion Ratio	Lower	Upper	
91	100		
106	52.6	29.2	69.2



#70
 o-Xylene
 Concen: 0.08 ng
 RT: 18.70 min Scan# 2766
 Delta R.T. -0.005 min
 Lab File: 03272321.D
 Acq: 27 Mar 2023 16:46

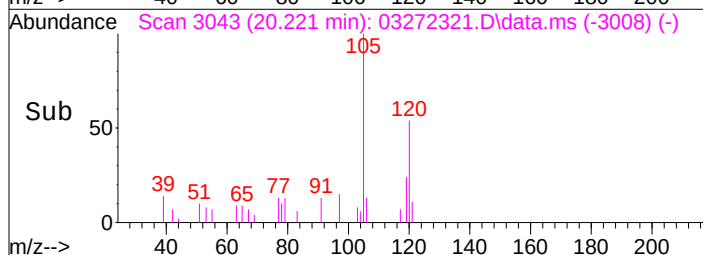
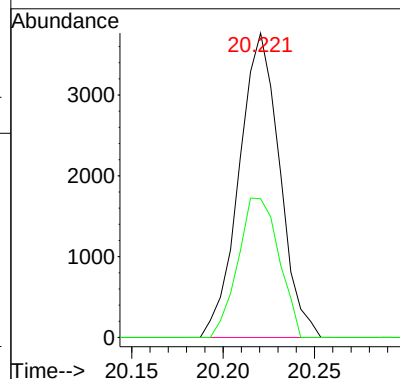
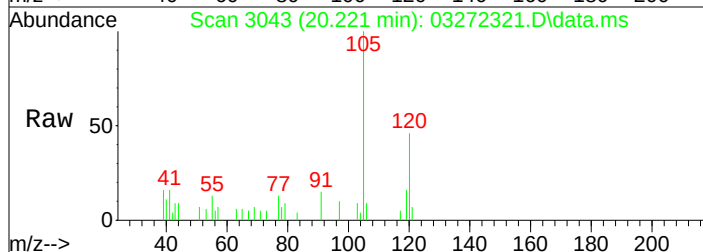
Tgt Ion:	91	Resp:	6155
Ion Ratio	Lower	Upper	
91	100		
106	47.0	27.3	67.3





#82
 1,2,4-Trimethylbenzene
 Concen: 0.07 ng
 RT: 20.22 min Scan# 3043
 Delta R.T. -0.005 min
 Lab File: 03272321.D
 Acq: 27 Mar 2023 16:46

Tgt Ion:105 Resp: 5801
 Ion Ratio Lower Upper
 105 100
 120 46.3 37.2 77.2



Data File : I:\MS16\DATA\2023_03\27\03272321.D
 Acq On : 27 Mar 2023 16:46
 Sample : P2301250-038 (1000mL)
 Misc : S35-01312301

Vial: 6
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 19:39:49 2023

Quant Method : I:\MS16\METHODS\C16122022.M

Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD

QLast Update : Wed Dec 21 05:02:49 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

107 3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.28	130	242789	12.500	ng	-0.02
16) 1,4-Difluorobenzene (C_2)	13.41	114	1108699	12.500	ng	-0.02
19) Chlorobenzene-d5 (C_3)	17.72	54	230017	12.500	ng	0.00

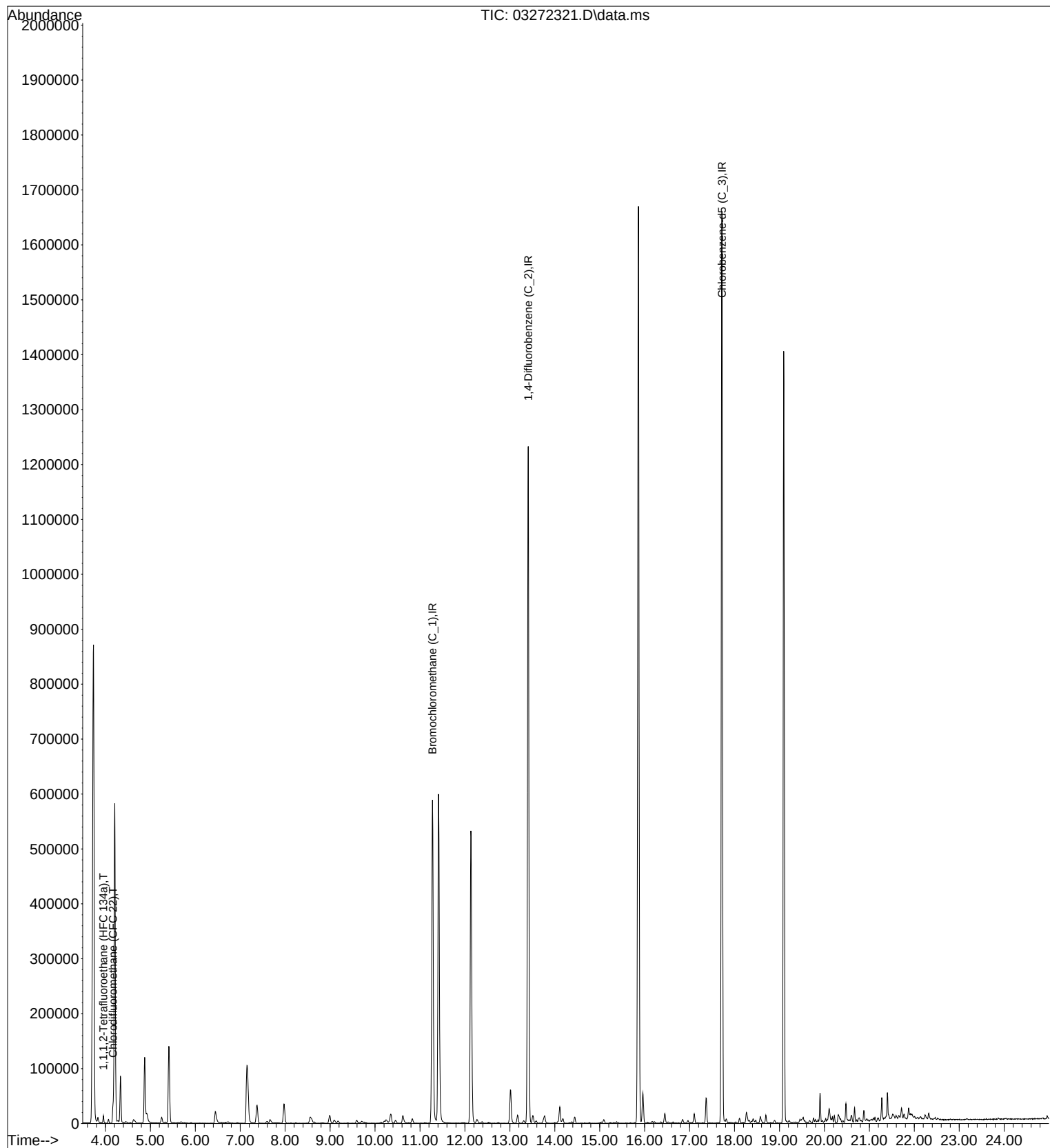
Target Compounds						Qvalue
2) Chloropentafluoroethane	3.85	85	766	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.95	83	6354	0.330	ng	90
4) 1,1-Difluoroethane	4.07	65	2779	N.D.		
5) Chlorodifluoromethane ...	4.17	67	2550	0.425	ng	92
6) 1-Chloro-1,1-Difluoroe...	4.63	65	3287	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	8.59	43	11598	N.D.		
12) 2-Methylpentane	10.36	71	4145	N.D.		
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	13.17	84	1480	N.D.		
17) 2,3-Dimethylpentane	13.59	56	1988	N.D.		
18) Dibromomethane	13.83	174	319	N.D.		
20) Methyl Cyclohexane	15.08	55	2406	N.D.		
21) 1,3-Dichloropropane	15.95	76	53	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	0.00	91	0	N.D.		
24) 1,2,3-Trichloropropane	18.70	75	493	N.D.		
25) Bromobenzene	19.21	77	50	N.D.		
26) 2-Chlorotoluene	19.67	91	1843	N.D.		
27) 4-Chlorotoluene	19.67	91	1843	N.D.		
28) Indane	20.76	117	614	N.D.		
29) Indene	20.77	115	159	N.D.		
30) 1,2,4,5-Tetramethylben...	21.61	119	1292	N.D.		
31) 1,2,3,4-Tetramethylben...	21.64	119	2328	N.D.		
32) 1,2,3,5-Tetramethylben...	21.99	119	1169	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\27\03272321.D
Acq On : 27 Mar 2023 16:46
Sample : P2301250-038 (1000mL)
Misc : S35-01312301

Vial: 6
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 19:39:49 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG8

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-039

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02349

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.85 Final Pressure (psig): 3.76

Container Dilution Factor: 1.44

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.8	0.76	0.13	0.56	0.15	0.025	
74-87-3	Chloromethane	0.32	0.30	0.12	0.15	0.15	0.060	
75-01-4	Vinyl Chloride	ND	0.16	0.082	ND	0.062	0.032	
74-83-9	Bromomethane	ND	0.30	0.11	ND	0.078	0.027	
75-00-3	Chloroethane	ND	0.30	0.095	ND	0.11	0.036	
67-64-1	Acetone	3.2	7.6	1.7	1.3	3.2	0.73	J
75-69-4	Trichlorofluoromethane	1.4	0.75	0.12	0.24	0.13	0.021	
75-35-4	1,1-Dichloroethene	ND	0.16	0.11	ND	0.040	0.027	
75-09-2	Methylene Chloride	0.39	0.76	0.22	0.11	0.22	0.062	J
76-13-1	Trichlorotrifluoroethane	0.53	0.78	0.11	0.069	0.10	0.014	J
75-15-0	Carbon Disulfide	ND	1.5	0.23	ND	0.49	0.074	
156-60-5	trans-1,2-Dichloroethene	ND	0.16	0.11	ND	0.040	0.027	
75-34-3	1,1-Dichloroethane	ND	0.16	0.11	ND	0.039	0.028	
1634-04-4	Methyl tert-Butyl Ether	ND	0.78	0.091	ND	0.22	0.025	
78-93-3	2-Butanone (MEK)	0.67	1.5	0.16	0.23	0.51	0.054	J
156-59-2	cis-1,2-Dichloroethene	ND	0.16	0.11	ND	0.040	0.027	
67-66-3	Chloroform	0.10	0.16	0.10	0.021	0.032	0.021	J
107-06-2	1,2-Dichloroethane	ND	0.16	0.085	ND	0.039	0.021	
71-55-6	1,1,1-Trichloroethane	ND	0.16	0.095	ND	0.029	0.017	
71-43-2	Benzene	0.59	0.16	0.11	0.19	0.050	0.035	
56-23-5	Carbon Tetrachloride	0.47	0.16	0.11	0.075	0.025	0.017	
110-82-7	Cyclohexane	ND	1.5	0.22	ND	0.44	0.063	
78-87-5	1,2-Dichloropropane	ND	0.16	0.095	ND	0.034	0.021	
75-27-4	Bromodichloromethane	ND	0.16	0.11	ND	0.024	0.017	
79-01-6	Trichloroethene	ND	0.16	0.10	ND	0.029	0.019	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG8

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-039

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02349

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.85 Final Pressure (psig): 3.76

Container Dilution Factor: 1.44

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.78	0.12	ND	0.17	0.026	
108-10-1	4-Methyl-2-pentanone	ND	1.6	0.11	ND	0.39	0.026	
10061-02-6	trans-1,3-Dichloropropene	ND	0.73	0.16	ND	0.16	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.16	0.078	ND	0.029	0.014	
108-88-3	Toluene	0.52	0.76	0.094	0.14	0.20	0.025	J
591-78-6	2-Hexanone	ND	1.6	0.095	ND	0.39	0.023	
124-48-1	Dibromochloromethane	ND	0.16	0.10	ND	0.019	0.012	
106-93-4	1,2-Dibromoethane	ND	0.16	0.089	ND	0.021	0.012	
127-18-4	Tetrachloroethene	0.13	0.16	0.099	0.020	0.023	0.015	J
108-90-7	Chlorobenzene	ND	0.76	0.10	ND	0.17	0.022	
100-41-4	Ethylbenzene	ND	0.76	0.11	ND	0.18	0.025	
179601-23-1	m,p-Xylenes	0.23	1.6	0.20	0.053	0.36	0.046	J
75-25-2	Bromoform	ND	0.78	0.16	ND	0.075	0.015	
100-42-5	Styrene	ND	0.76	0.12	ND	0.18	0.029	
95-47-6	o-Xylene	ND	0.76	0.11	ND	0.18	0.026	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	0.11	ND	0.023	0.016	
98-82-8	Cumene	ND	0.78	0.11	ND	0.16	0.023	
541-73-1	1,3-Dichlorobenzene	ND	0.76	0.12	ND	0.13	0.019	
106-46-7	1,4-Dichlorobenzene	ND	0.76	0.12	ND	0.13	0.020	
95-50-1	1,2-Dichlorobenzene	ND	0.78	0.11	ND	0.13	0.019	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.6	0.14	ND	0.16	0.015	
120-82-1	1,2,4-Trichlorobenzene	ND	1.6	0.19	ND	0.21	0.025	
79-20-9	Methyl Acetate	ND	0.72	0.35	ND	0.24	0.11	X
108-87-2	Methylcyclohexane	ND	0.72	0.37	ND	0.18	0.093	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS16\DATA\2023_03\24\03242313.D
 Acq On : 24 Mar 2023 12:50
 Sample : P2301250-039 (1000mL)
 Misc : S35-01312301

Vial: 7
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 24 13:48:09 2023

WA 3/26/23

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:TO15B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	212187	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	981281	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.72	54	215785	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	379869	13.462	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	107.68%
57) Toluene-d8 (SS2)	15.86	98	1122668	11.884	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	95.04%
73) Bromofluorobenzene (SS3)	19.10	174	340668	11.562	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.48%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	4.34	85	60704	1.914	ng	99
4) Chloromethane	4.63	50	6583	0.222	ng	96
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	1377	0.078	ng	100
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.34	54	415	N.D.		
8) Bromomethane	5.77	94	520	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.48	45	19725	0.966	ng	99
11) Acetonitrile	6.75	41	3642	0.071	ng	98
12) Acrolein	6.96	56	1731	0.120	ng	96
13) Acetone	7.17	58	34464	2.207	ng	# 79
14) Trichlorofluoromethane	7.39	101	27823	0.951	ng	100
15) 2-Propanol (Isopropanol)	7.69	45	7749	0.142	ng	89
16) Acrylonitrile	7.91	53	217	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.		
19) Methylene Chloride	8.56	84	4639	0.269	ng	92
20) 3-Chloro-1-propene (Al...	8.66	41	505	N.D.		
21) Trichlorotrifluoroethane	9.00	151	5333	0.366	ng	96
22) Carbon Disulfide	8.84	76	1588	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	10.09	63	311	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	10.62	72	5298	0.468	ng	93
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	11.44	87	312	N.D.		
30) Ethyl Acetate	11.43	61	15369	2.076	ng	96
31) n-Hexane	11.40	57	4945	0.133	ng	97
32) Chloroform	11.45	83	2036	0.072	ng	94
34) Tetrahydrofuran (THF)	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	N.D.	d	
38) 1,1,1-Trichloroethane	12.54	97	1362	0.051	ng	92
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.02	78	28512	0.413	ng	98
42) Carbon Tetrachloride	13.18	117	7391	0.329	ng	98
43) Cyclohexane	13.31	84	1197	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	14.12	130	842	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	14.18	57	6080	0.065	ng	73
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS16\DATA\2023_03\24\03242313.D
 Acq On : 24 Mar 2023 12:50
 Sample : P2301250-039 (1000mL)
 Misc : S35-01312301

Vial: 7
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 24 13:48:09 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

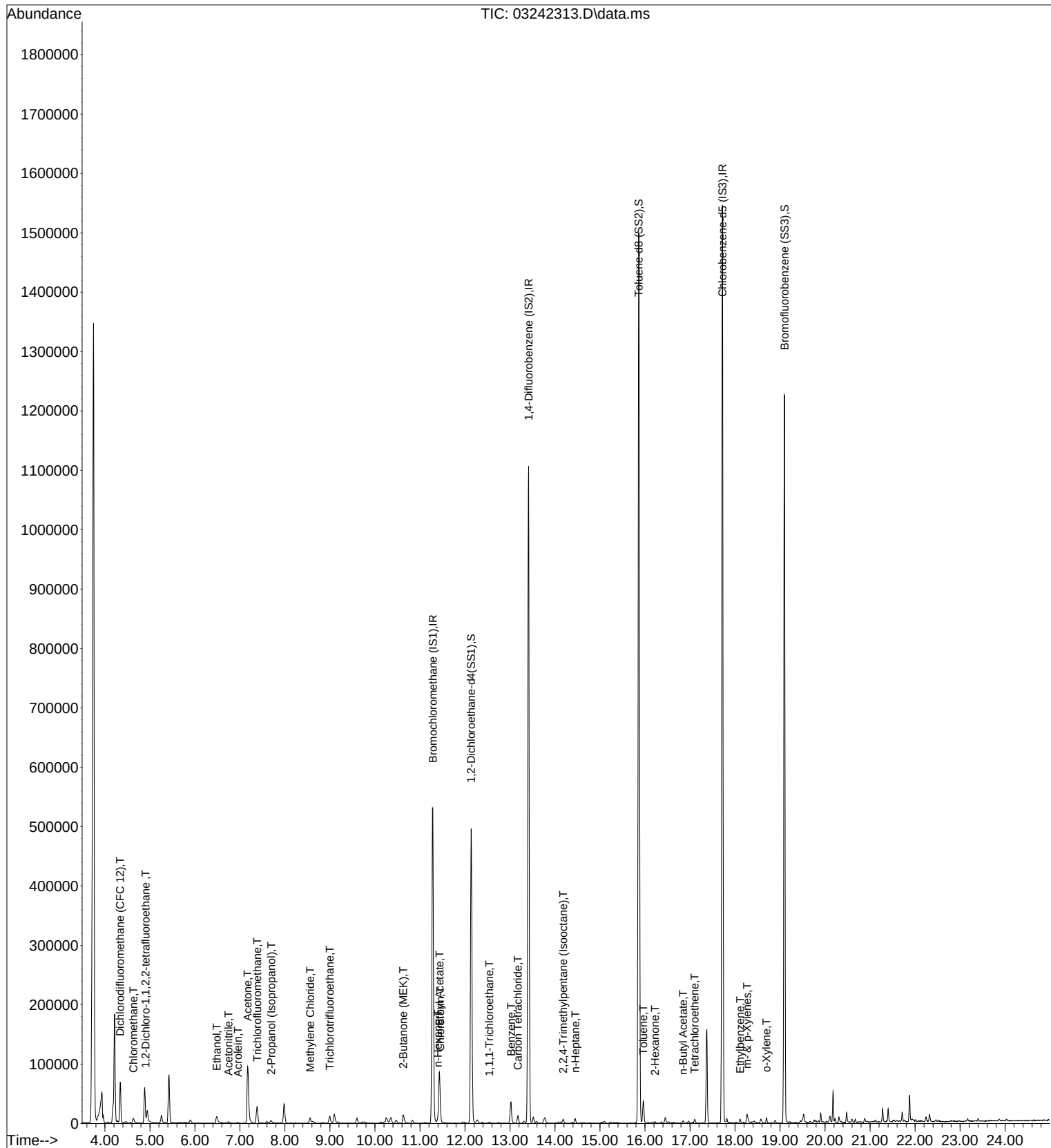
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.45	71	1850	0.091	ng	95
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	15.03	58	426	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.96	91	29936	0.362	ng	98
59) 2-Hexanone	16.22	43	2285	0.052	ng	76
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.84	43	3246	0.065	ng	96
63) n-Octane	16.96	57	495	N.D.		
64) Tetrachloroethene	17.10	166	1939	0.092	ng	94
65) Chlorobenzene	17.76	112	117	N.D.		
66) Ethylbenzene	18.11	91	5655	0.061	ng	93
67) m- & p-Xylenes	18.27	91	11927	0.161	ng	98
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.60	104	918	N.D.		
70) o-Xylene	18.70	91	4580	0.063	ng	97
71) n-Nonane	18.90	43	2050	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	19.21	105	705	N.D.		
75) alpha-Pinene	19.57	93	705	N.D.		
76) n-Propylbenzene	19.67	91	1597	N.D.		
77) 3-Ethyltoluene	20.22	105	3706	No Calib	#	
78) 4-Ethyltoluene	19.79	105	1239	N.D.		
79) 1,3,5-Trimethylbenzene	19.86	105	1013	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.22	105	3706	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.22	105	3706	N.D.		
83) n-Decane	20.31	58	109	No Calib	#	
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
86) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
87) sec-Butylbenzene	20.45	105	271	N.D.		
88) 4-Isopropyltoluene (p-...	20.59	119	1663	N.D.		
89) 1,2,3-Trimethylbenzene	20.22	105	3706	No Calib	#	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	20.72	68	487	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	21.28	58	200	No Calib	#	
94) 1,2,4-Trichlorobenzene	22.22	180	257	N.D.		
95) Naphthalene	22.33	128	2500	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	18.19	55	181	No Calib	#	
99) tert-Butylbenzene	20.21	119	503	N.D.		
100) n-Butylbenzene	20.96	91	799	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\24\03242313.D
Acq On : 24 Mar 2023 12:50
Sample : P2301250-039 (1000mL)
Misc : S35-01312301

Vial: 7
Operator: WA
Inst : GCMS-16

Quant Time: Mar 24 13:48:09 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:TO15B.M



Data File : I:\MS16\DATA\2023_03\24\03242313.D
 Acq On : 24 Mar 2023 12:50
 Sample : P2301250-039 (1000mL)
 Misc : S35-01312301

Vial: 7
 Operator: WA
 Inst : GCMS-16

3/24/23

Quant Time: Mar 24 13:48:09 2023
 Quant Method : I:\MS16\METHODS\R16122022.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Wed Dec 21 03:06:38 2022
 Response via : Initial Calibration
 DataAcq Meth:T015B.M

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System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	379869	13.462	ng	-0.02
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Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.48%

Target Compounds

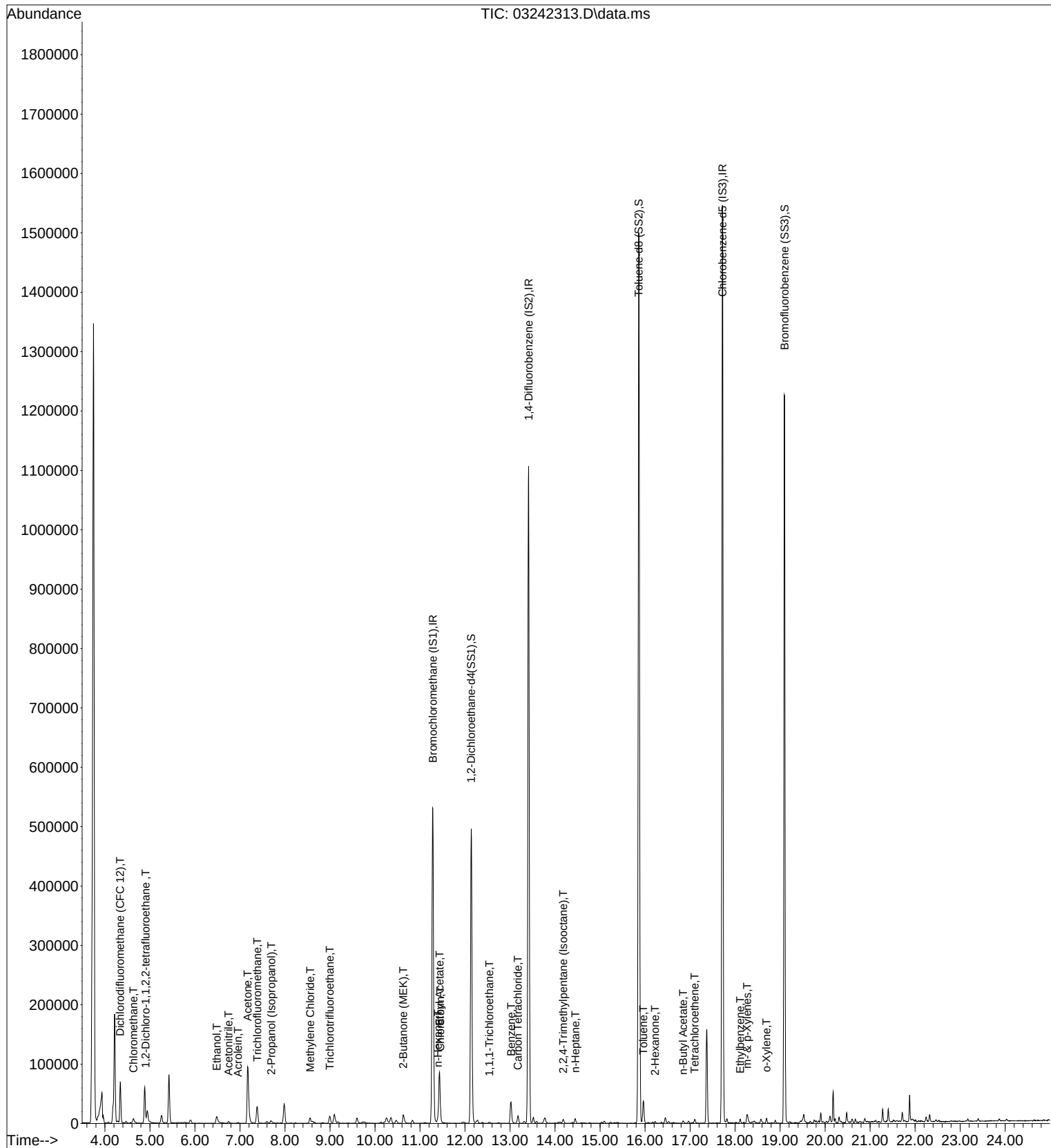
						Qvalue
3) Dichlorodifluoromethan...	4.34	85	60704	1.914	ng	99
4) Chloromethane	4.63	50	6583	0.222	ng	96
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	1377	0.078	ng	100
10) Ethanol	6.48	45	19725	0.966	ng	99
11) Acetonitrile	6.75	41	3642	0.071	ng	98
12) Acrolein	6.96	56	1731	0.120	ng	96
13) Acetone	7.17	58	34464	2.207	ng	# 79
14) Trichlorofluoromethane	7.39	101	27823	0.951	ng	100
15) 2-Propanol (Isopropanol)	7.69	45	7749	0.142	ng	89
19) Methylene Chloride	8.56	84	4639	0.269	ng	92
21) Trichlorotrifluoroethane	9.00	151	5333	0.366	ng	96
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30) Ethyl Acetate	11.43	61	15369	2.076	ng	96
31) n-Hexane	11.40	57	4945	0.133	ng	97
32) Chloroform	11.45	83	2036	0.072	ng	94
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58) Toluene	15.96	91	29936	0.362	ng	98
59) 2-Hexanone	16.22	43	2285	0.052	ng	76
62) n-Butyl Acetate	16.84	43	3246	0.065	ng	96
64) Tetrachloroethene	17.10	166	1939	0.092	ng	94
66) Ethylbenzene	18.11	91	5655	0.061	ng	93
67) m- & p-Xylenes	18.27	91	11927	0.161	ng	98
70) o-Xylene	18.70	91	4580	0.063	ng	97

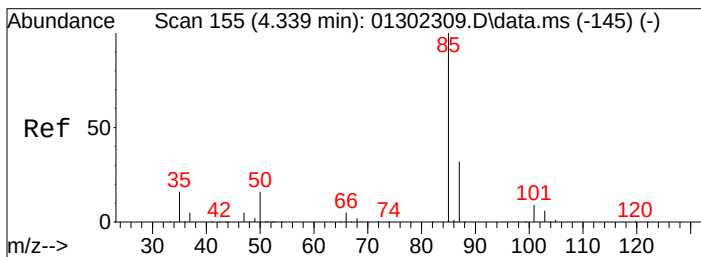
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 24 Mar 2023 12:50
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Vial: 7
Operator: WA
Inst : GCMS-16

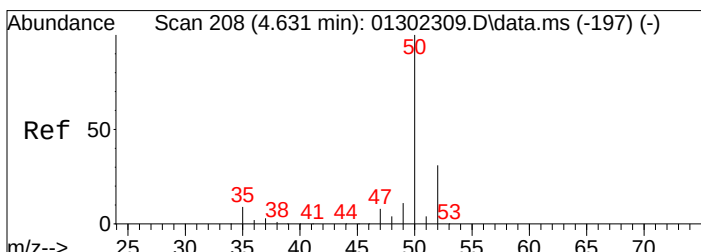
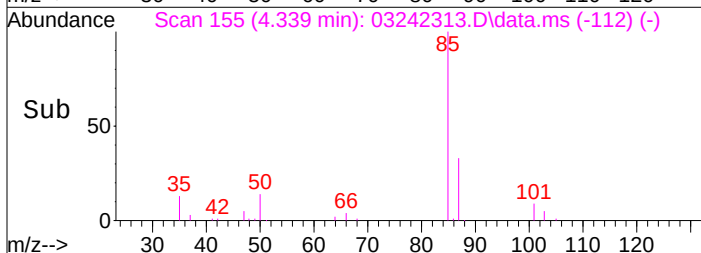
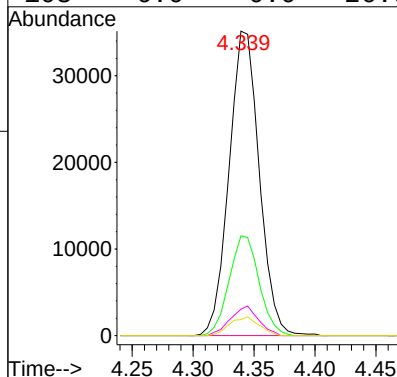
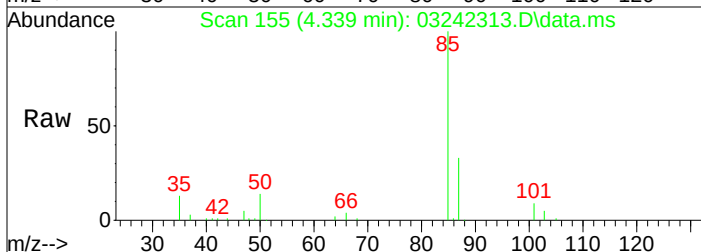
Quant Time: Mar 24 13:48:09 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M





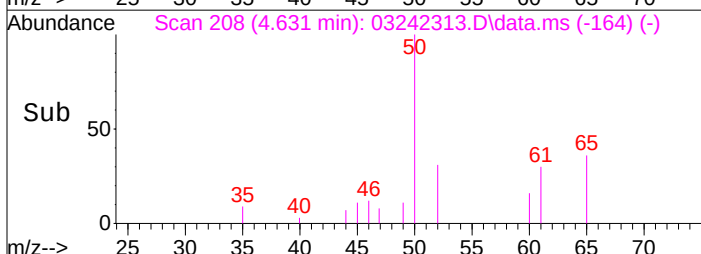
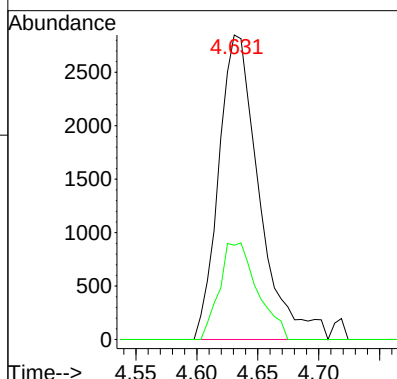
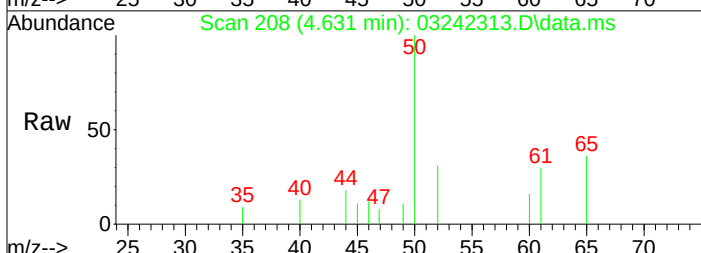
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.91 ng
 RT: 4.34 min Scan# 155
 Delta R.T. -0.011 min
 Lab File: 03242313.D
 Acq: 24 Mar 2023 12:50

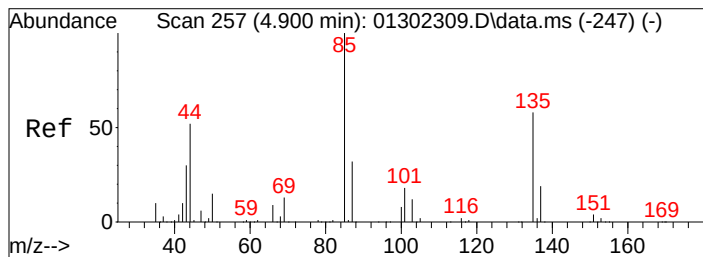
Tgt Ion:	85	Resp:	60704
Ion Ratio	Lower	Upper	
85	100		
87	32.4	12.1	52.1
101	9.0	0.0	29.3
103	6.0	0.0	26.0



#4
 Chloromethane
 Concen: 0.22 ng
 RT: 4.63 min Scan# 208
 Delta R.T. -0.005 min
 Lab File: 03242313.D
 Acq: 24 Mar 2023 12:50

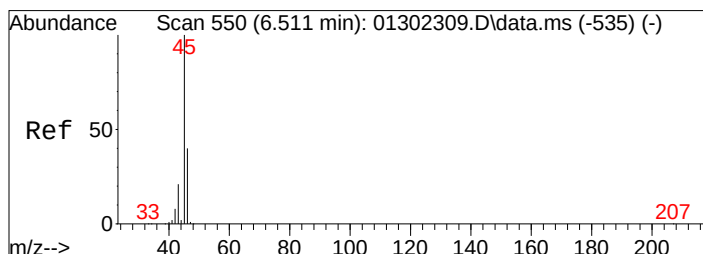
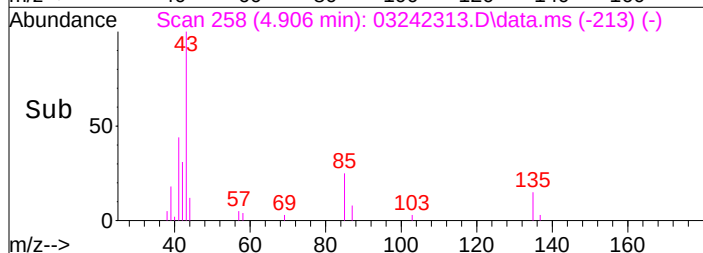
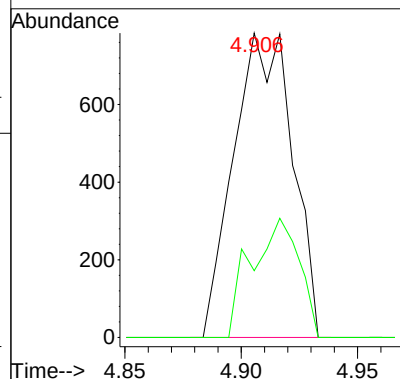
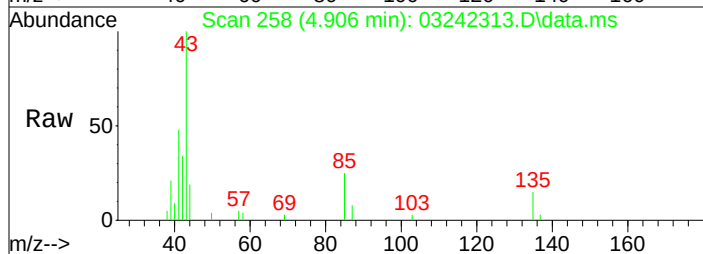
Tgt Ion:	50	Resp:	6583
Ion Ratio	Lower	Upper	
50	100		
52	29.8	12.2	52.2





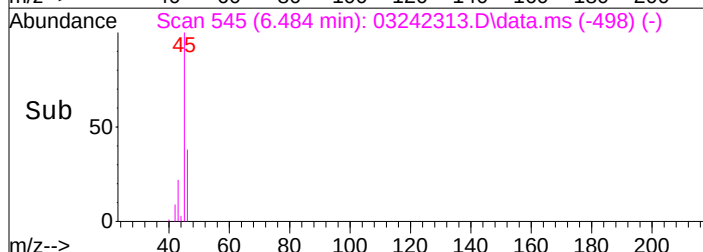
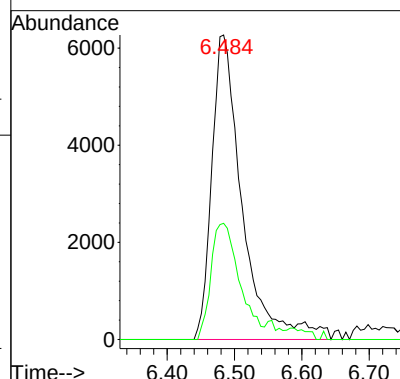
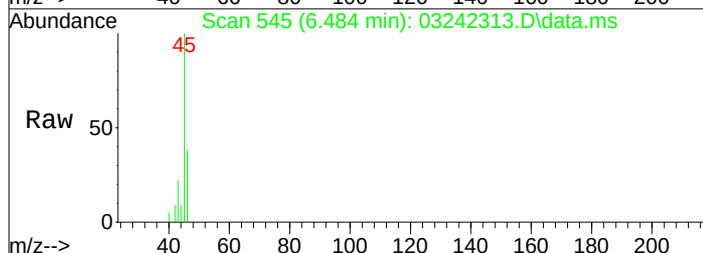
#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.08 ng
 RT: 4.91 min Scan# 258
 Delta R.T. 0.000 min
 Lab File: 03242313.D
 Acq: 24 Mar 2023 12:50

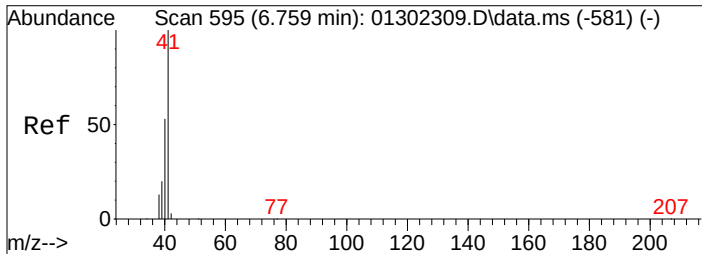
Tgt Ion: 135 Resp: 1377
 Ion Ratio Lower Upper
 135 100
 137 32.0 12.0 52.0



#10
 Ethanol
 Concen: 0.97 ng
 RT: 6.48 min Scan# 545
 Delta R.T. 0.006 min
 Lab File: 03242313.D
 Acq: 24 Mar 2023 12:50

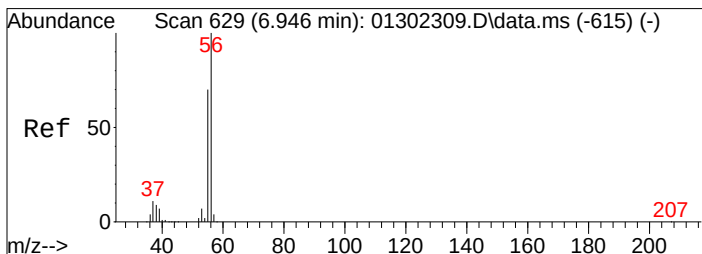
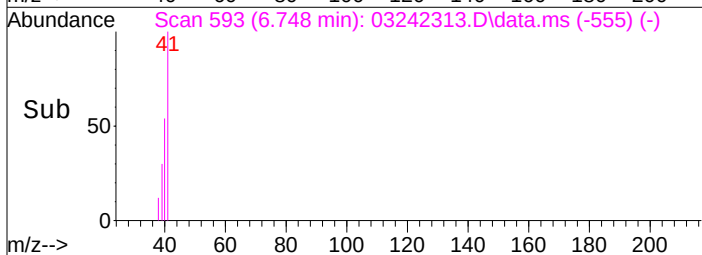
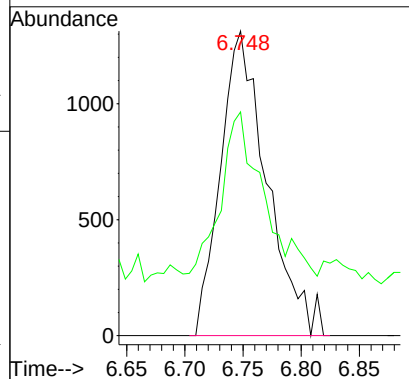
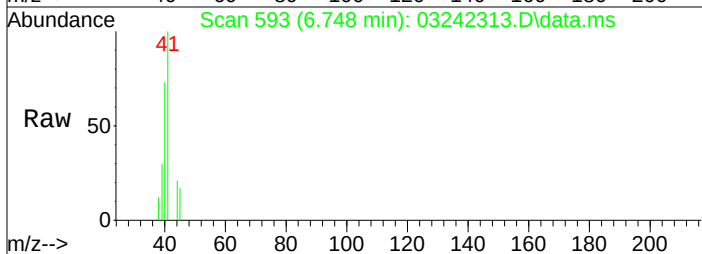
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 Ion Ratio Lower Upper
 45 100
 46 40.8 20.5 60.5





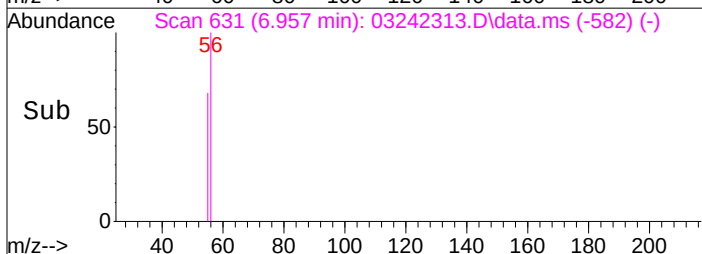
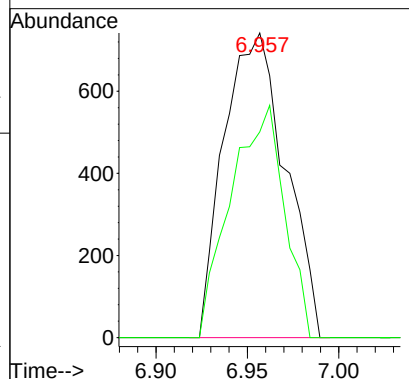
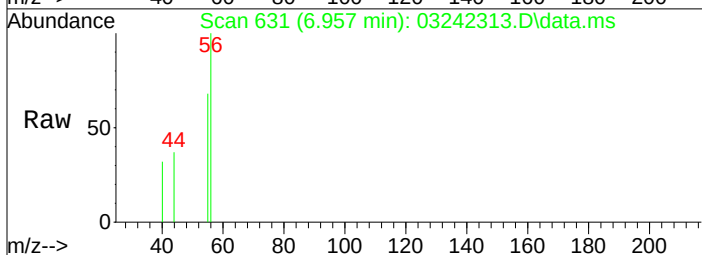
#11
Acetonitrile
Concen: 0.07 ng
RT: 6.75 min Scan# 593
Delta R.T. 0.011 min
Lab File: 03242313.D
Acq: 24 Mar 2023 12:50

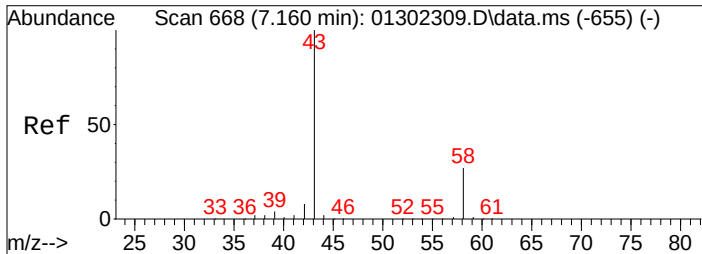
Tgt Ion: 41 Resp: 3642
Ion Ratio Lower Upper
41 100
40 50.8 32.4 72.4



#12
Acrolein
Concen: 0.12 ng
RT: 6.96 min Scan# 631
Delta R.T. 0.022 min
Lab File: 03242313.D
Acq: 24 Mar 2023 12:50

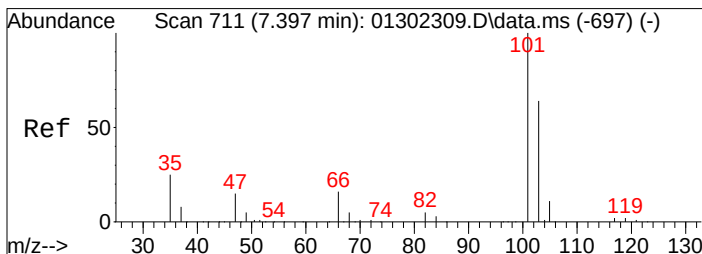
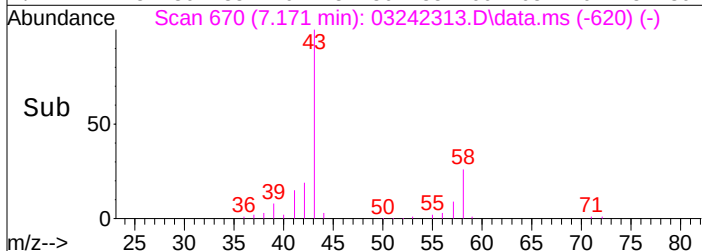
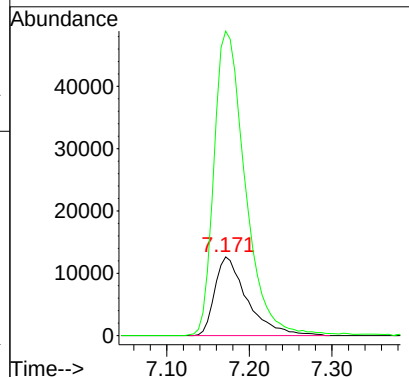
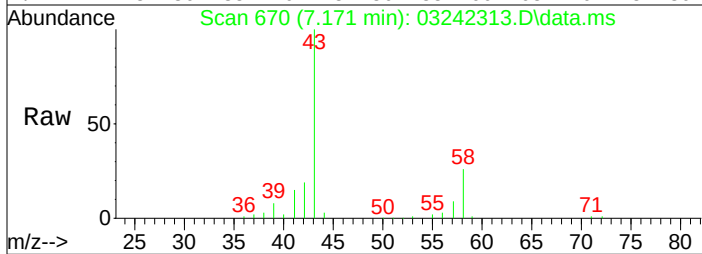
Tgt Ion: 56 Resp: 1731
Ion Ratio Lower Upper
56 100
55 66.5 49.9 89.9





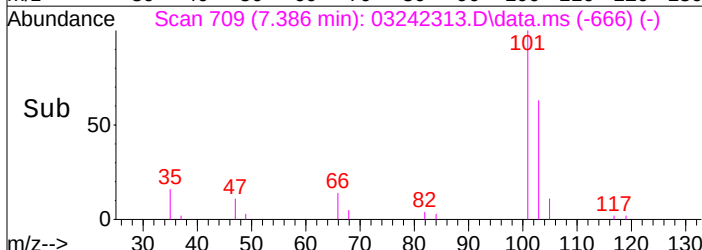
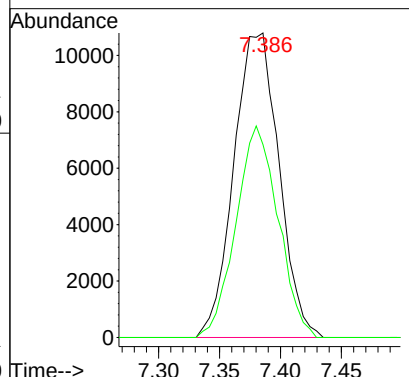
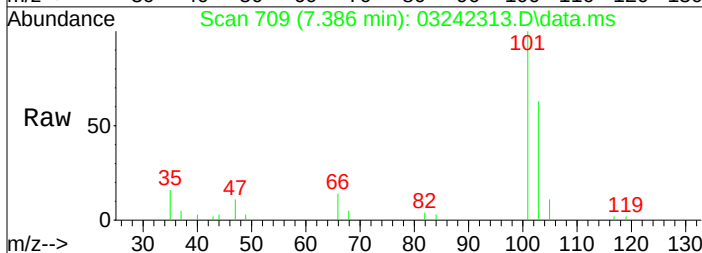
#13
 Acetone
 Concen: 2.21 ng
 RT: 7.17 min Scan# 670
 Delta R.T. 0.027 min
 Lab File: 03242313.D
 Acq: 24 Mar 2023 12:50

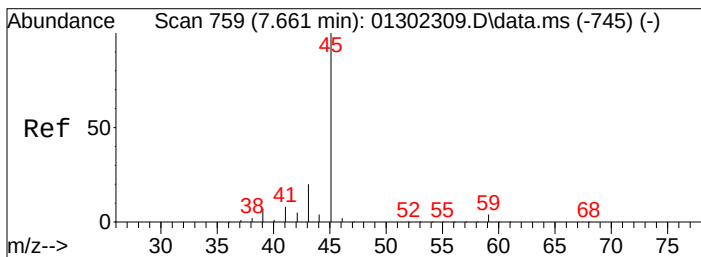
Tgt Ion	Ratio	Lower	Upper
58	100		
43	373.0	298.5	358.5#



#14
 Trichlorofluoromethane
 Concen: 0.95 ng
 RT: 7.39 min Scan# 709
 Delta R.T. -0.011 min
 Lab File: 03242313.D
 Acq: 24 Mar 2023 12:50

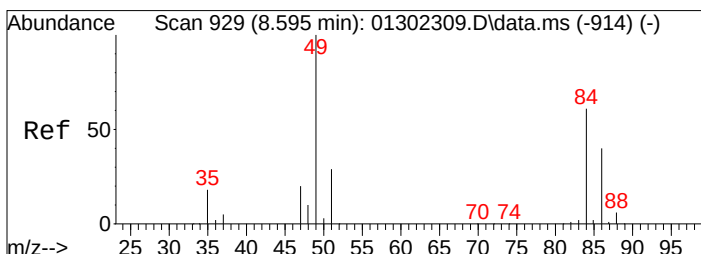
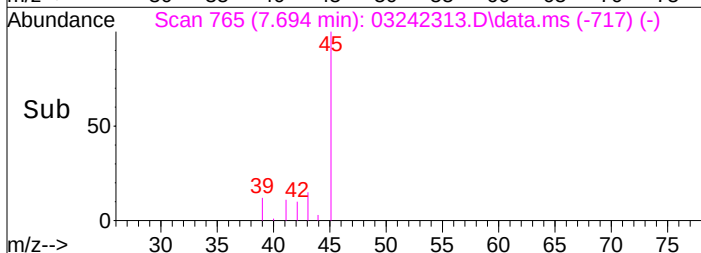
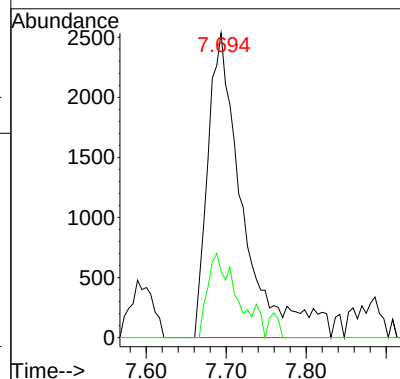
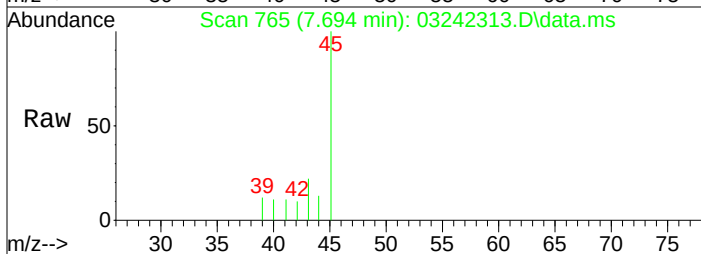
Tgt Ion	Ratio	Lower	Upper
101	100		
103	64.9	44.8	84.8





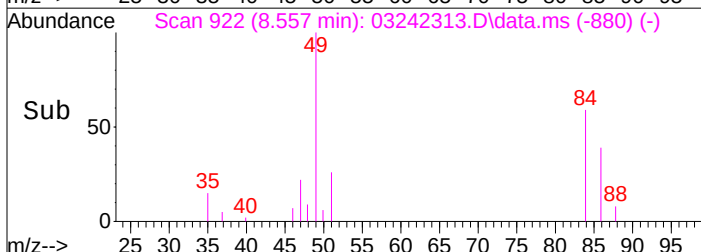
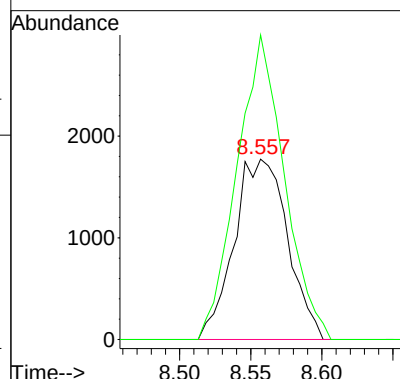
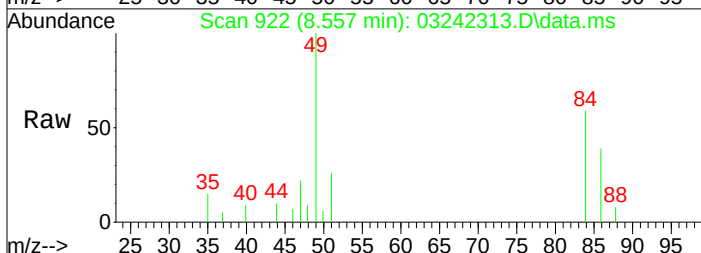
#15
 2-Propanol (Isopropanol)
 Concen: 0.14 ng
 RT: 7.69 min Scan# 765
 Delta R.T. 0.014 min
 Lab File: 03242313.D
 Acq: 24 Mar 2023 12:50

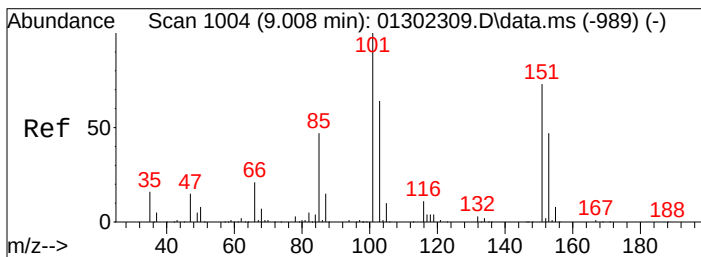
Tgt Ion: 45 Resp: 7749
 Ion Ratio Lower Upper
 45 100
 43 22.9 0.0 37.9



#19
 Methylene Chloride
 Concen: 0.27 ng
 RT: 8.56 min Scan# 922
 Delta R.T. -0.022 min
 Lab File: 03242313.D
 Acq: 24 Mar 2023 12:50

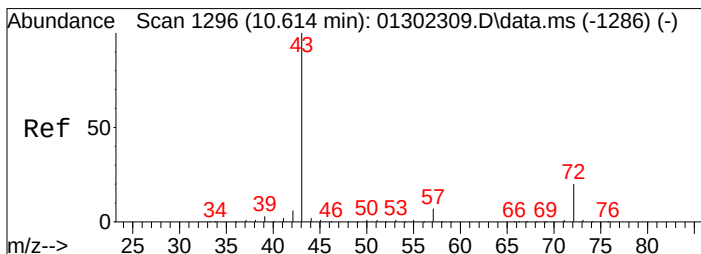
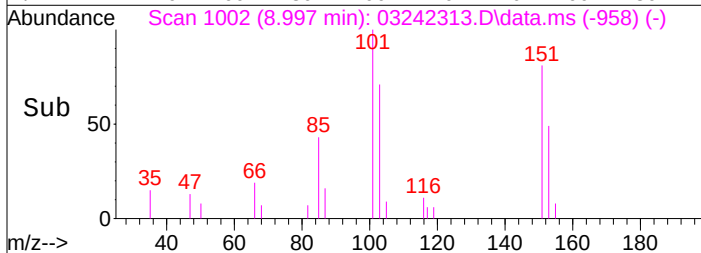
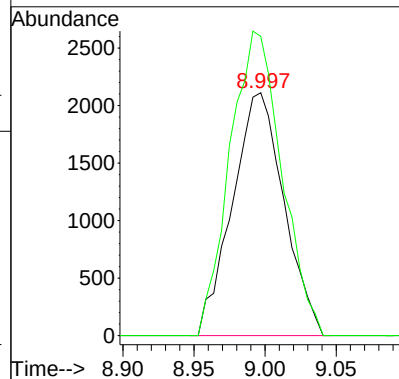
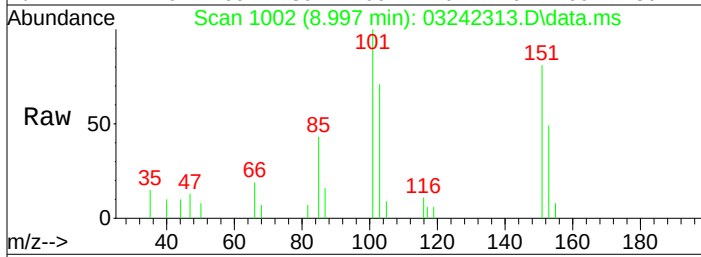
Tgt Ion: 84 Resp: 4639
 Ion Ratio Lower Upper
 84 100
 49 150.0 135.0 185.0





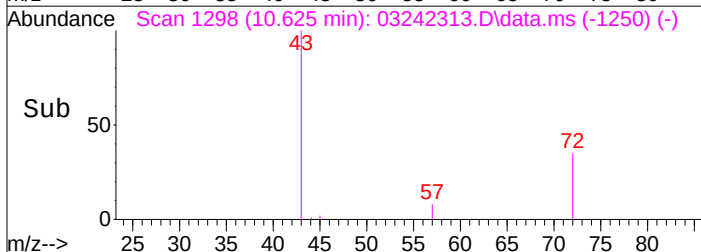
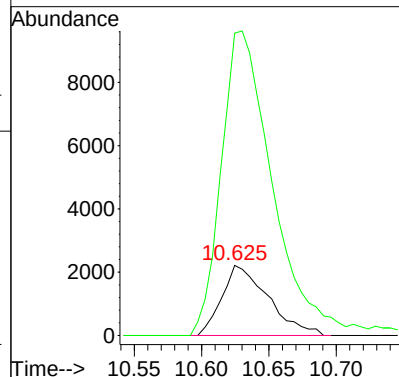
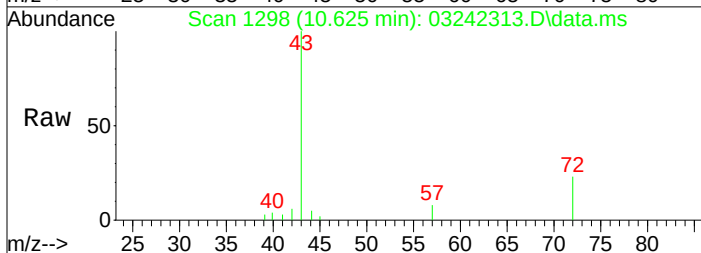
#21
 Trichlorotrifluoroethane
 Concen: 0.37 ng
 RT: 9.00 min Scan# 1002
 Delta R.T. -0.005 min
 Lab File: 03242313.D
 Acq: 24 Mar 2023 12:50

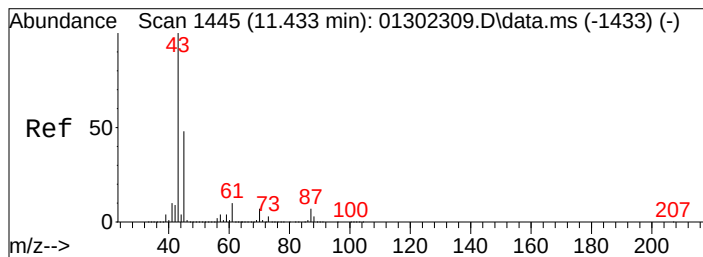
Tgt Ion: 151 Resp: 5333
 Ion Ratio Lower Upper
 151 100
 101 125.9 101.5 141.5



#27
 2-Butanone (MEK)
 Concen: 0.47 ng
 RT: 10.62 min Scan# 1298
 Delta R.T. 0.017 min
 Lab File: 03242313.D
 Acq: 24 Mar 2023 12:50

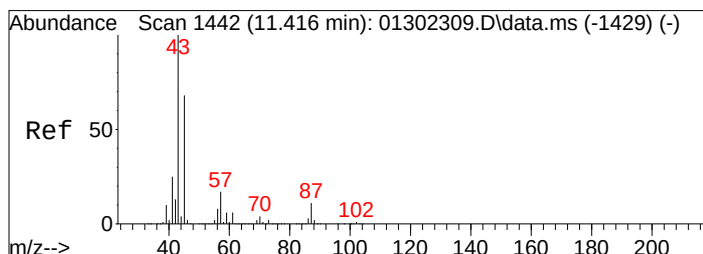
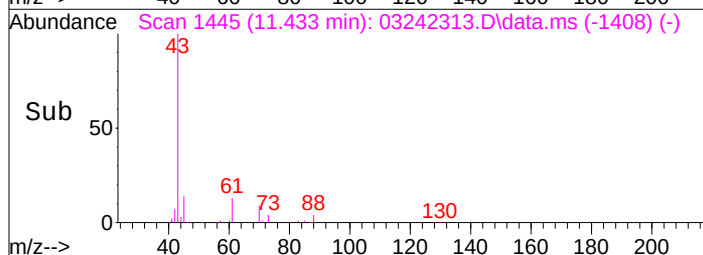
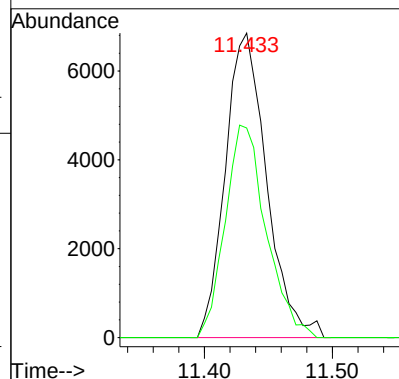
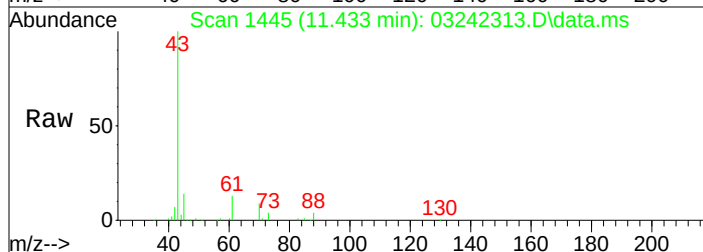
Tgt Ion: 72 Resp: 5298
 Ion Ratio Lower Upper
 72 100
 43 488.8 449.4 489.4





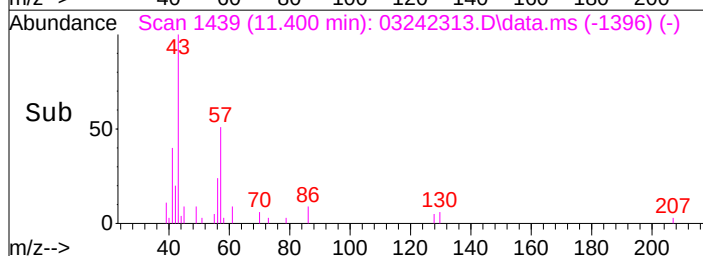
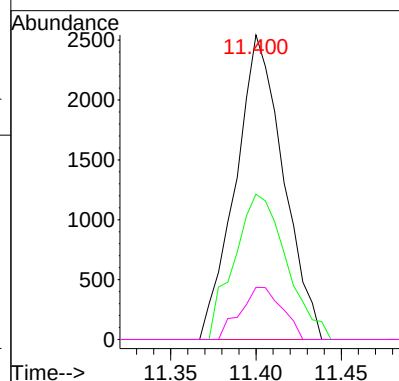
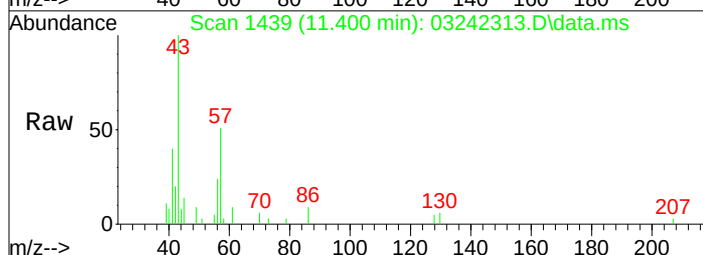
#30
Ethyl Acetate
Concen: 2.08 ng
RT: 11.43 min Scan# 1445
Delta R.T. 0.006 min
Lab File: 03242313.D
Acq: 24 Mar 2023 12:50

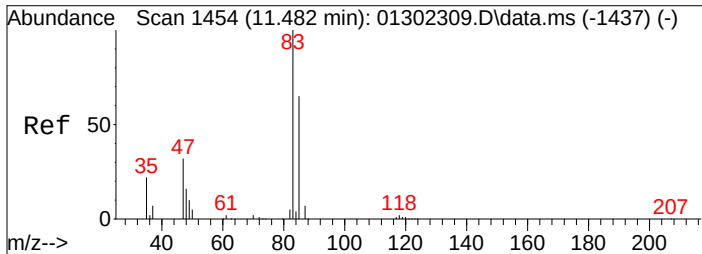
Tgt Ion: 61 Resp: 15369
Ion Ratio Lower Upper
61 100
70 69.2 52.8 92.8



#31
n-Hexane
Concen: 0.13 ng
RT: 11.40 min Scan# 1439
Delta R.T. -0.011 min
Lab File: 03242313.D
Acq: 24 Mar 2023 12:50

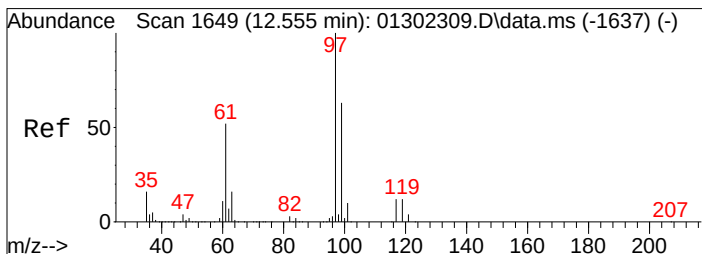
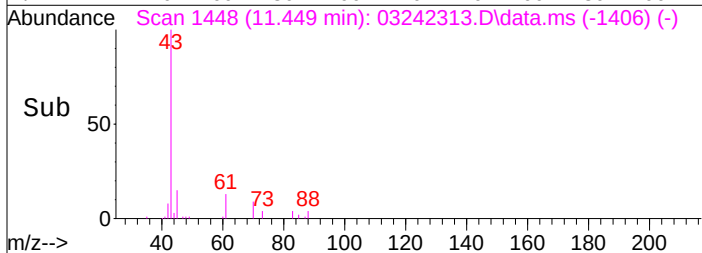
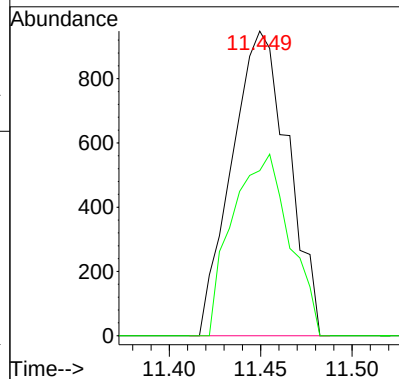
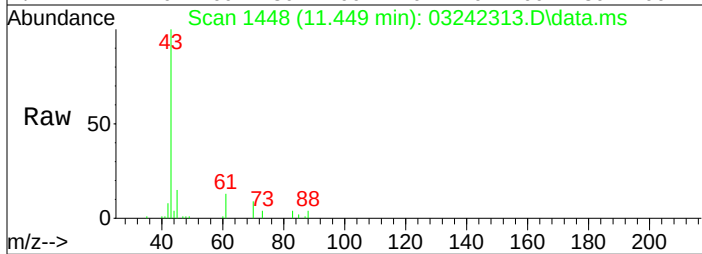
Tgt Ion: 57 Resp: 4945
Ion Ratio Lower Upper
57 100
56 52.3 39.9 59.9
86 15.0 12.3 18.5





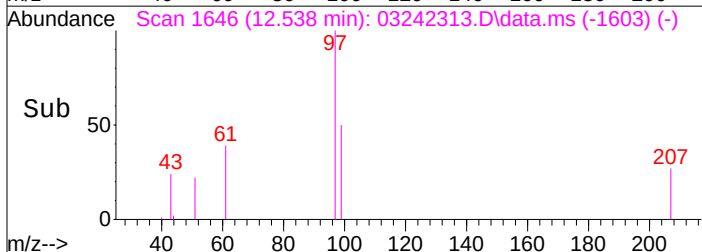
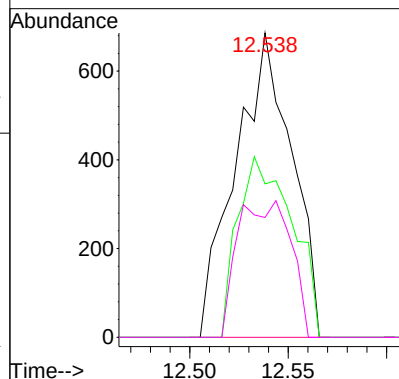
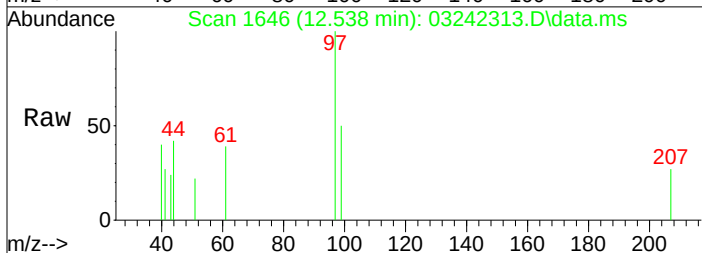
#32
Chloroform
Concen: 0.07 ng
RT: 11.45 min Scan# 1448
Delta R.T. -0.016 min
Lab File: 03242313.D
Acq: 24 Mar 2023 12:50

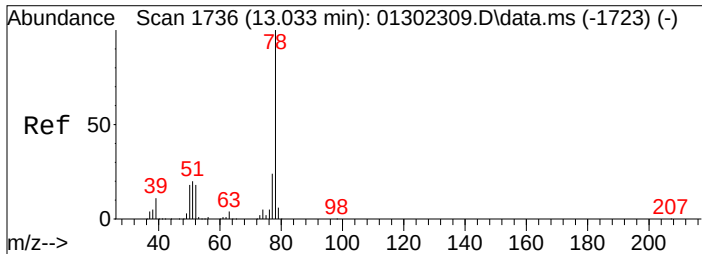
Tgt Ion: 83 Resp: 2036
Ion Ratio Lower Upper
83 100
85 60.4 45.5 85.5



#38
1,1,1-Trichloroethane
Concen: 0.05 ng
RT: 12.54 min Scan# 1646
Delta R.T. -0.011 min
Lab File: 03242313.D
Acq: 24 Mar 2023 12:50

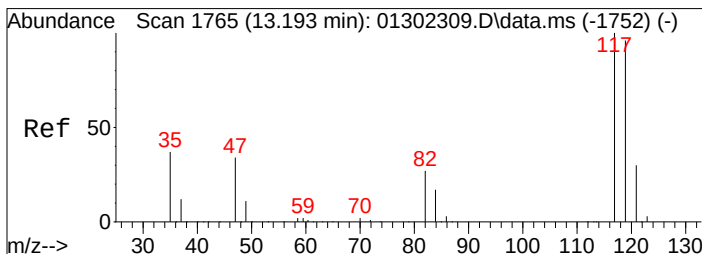
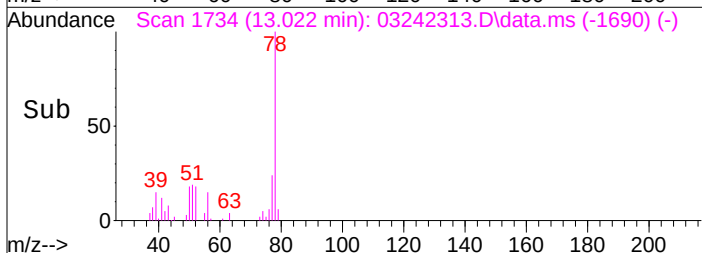
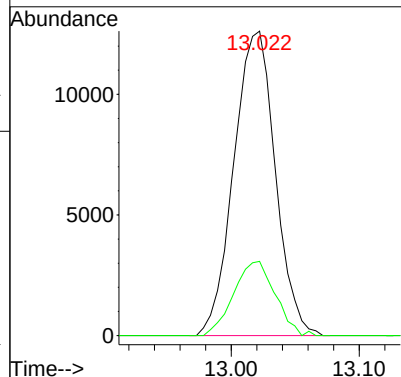
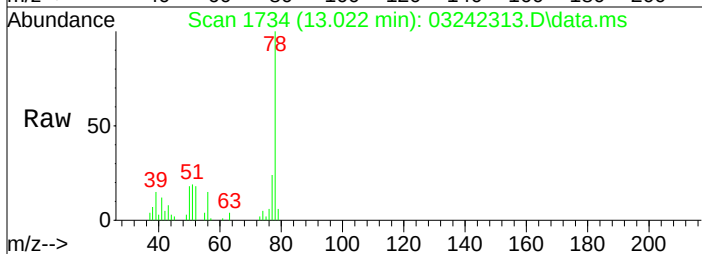
Tgt Ion: 97 Resp: 1362
Ion Ratio Lower Upper
97 100
99 57.6 44.0 84.0
61 42.4 26.8 66.8





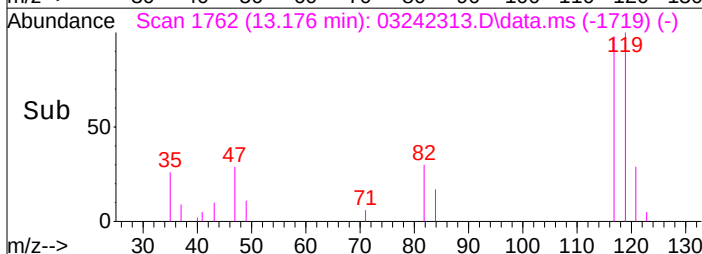
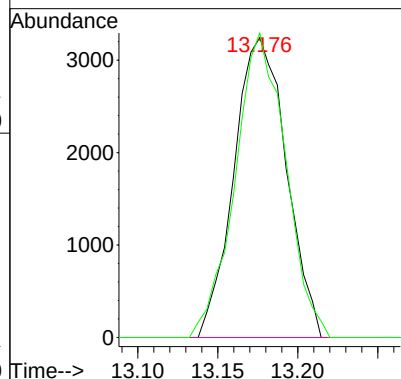
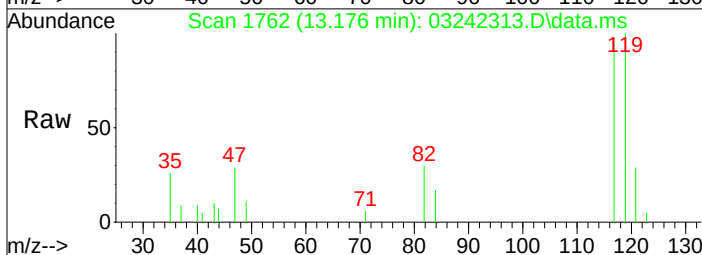
#41
Benzene
Concen: 0.41 ng
RT: 13.02 min Scan# 1734
Delta R.T. -0.005 min
Lab File: 03242313.D
Acq: 24 Mar 2023 12:50

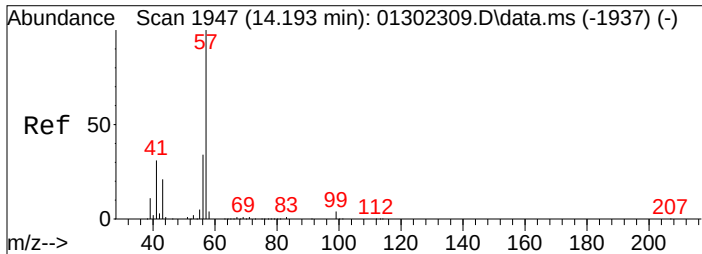
Tgt Ion: 78 Resp: 28512
Ion Ratio Lower Upper
78 100
77 24.3 3.3 43.3



#42
Carbon Tetrachloride
Concen: 0.33 ng
RT: 13.18 min Scan# 1762
Delta R.T. -0.011 min
Lab File: 03242313.D
Acq: 24 Mar 2023 12:50

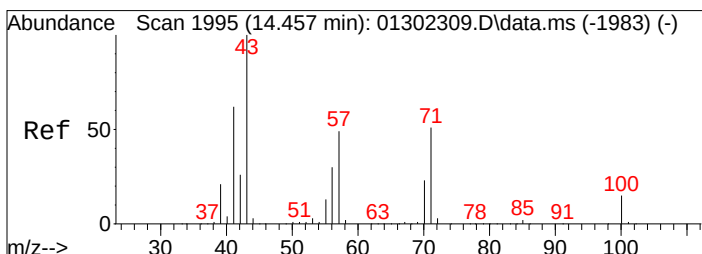
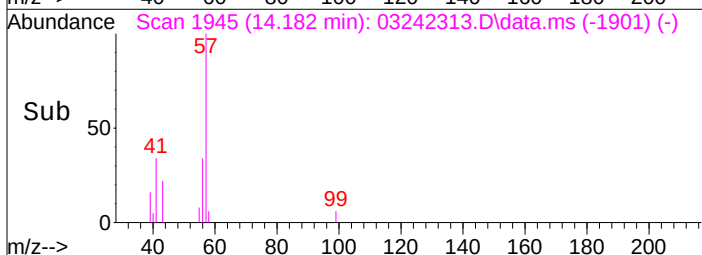
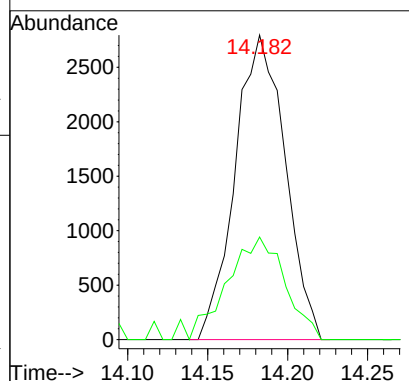
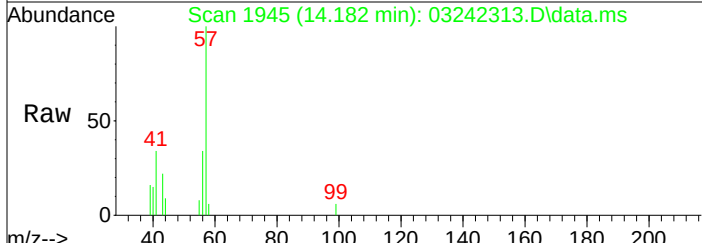
Tgt Ion: 117 Resp: 7391
Ion Ratio Lower Upper
117 100
119 98.0 76.2 116.2





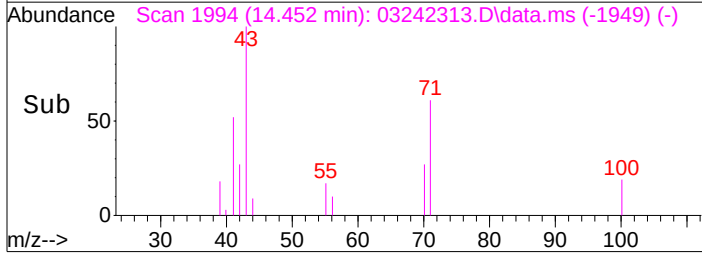
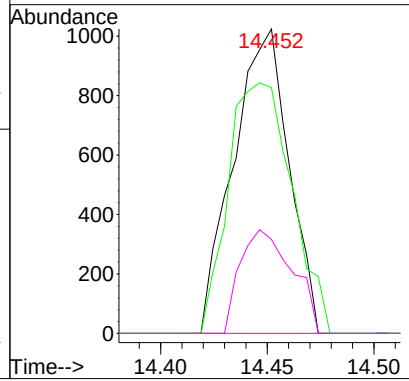
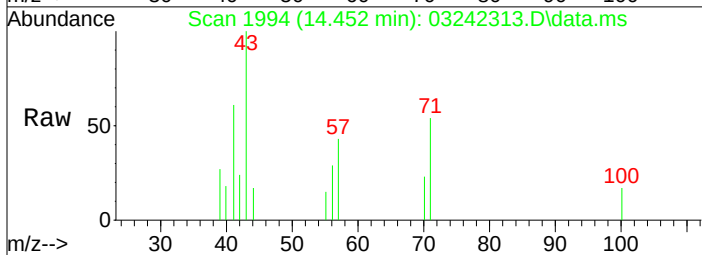
#49
 2,2,4-Trimethylpentane (Isooctane)
 Concen: 0.07 ng
 RT: 14.18 min Scan# 1945
 Delta R.T. -0.005 min
 Lab File: 03242313.D
 Acq: 24 Mar 2023 12:50

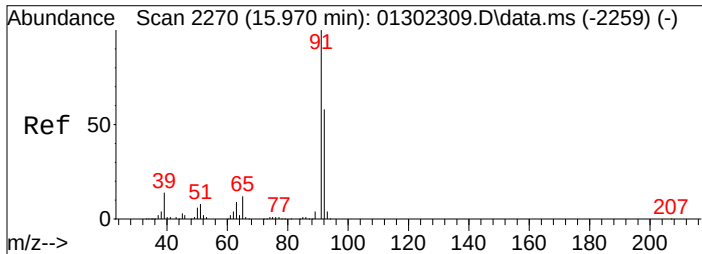
Tgt Ion:	57	Resp:	6080
Ion Ratio	Lower	Upper	
57	100		
41	39.6	5.8	45.8



#51
 n-Heptane
 Concen: 0.09 ng
 RT: 14.45 min Scan# 1994
 Delta R.T. 0.000 min
 Lab File: 03242313.D
 Acq: 24 Mar 2023 12:50

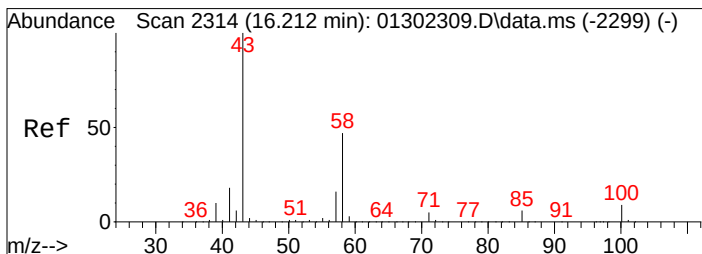
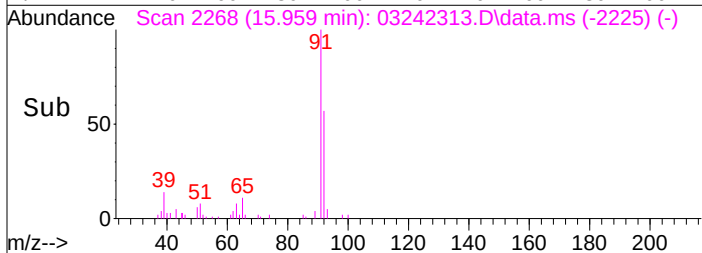
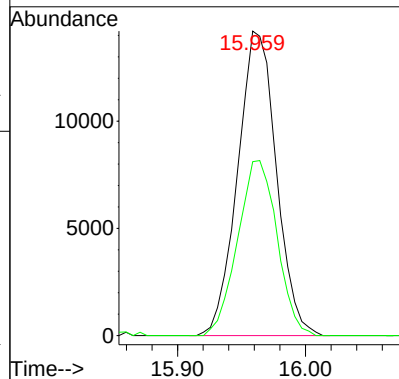
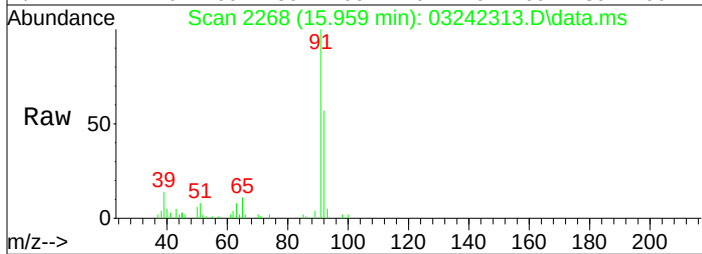
Tgt Ion:	71	Resp:	1850
Ion Ratio	Lower	Upper	
71	100		
57	94.4	81.4	121.4
100	32.1	11.8	51.8





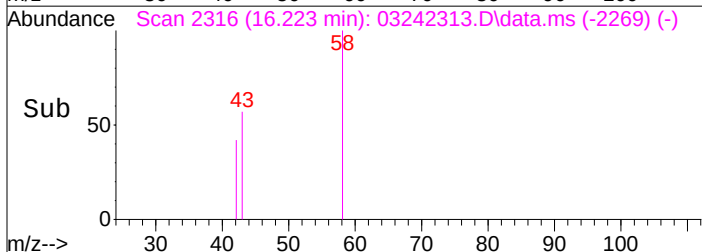
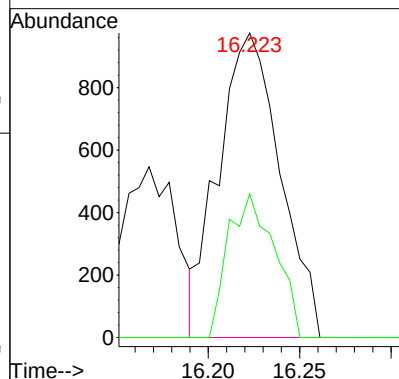
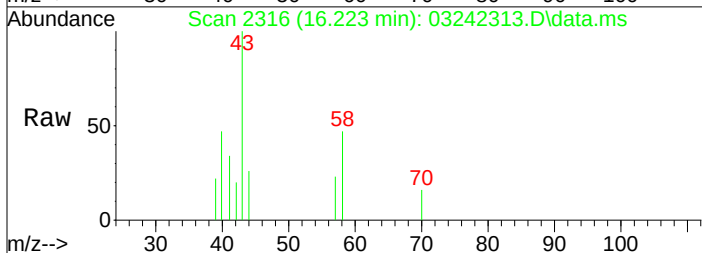
#58
Toluene
Concen: 0.36 ng
RT: 15.96 min Scan# 2268
Delta R.T. -0.011 min
Lab File: 03242313.D
Acq: 24 Mar 2023 12:50

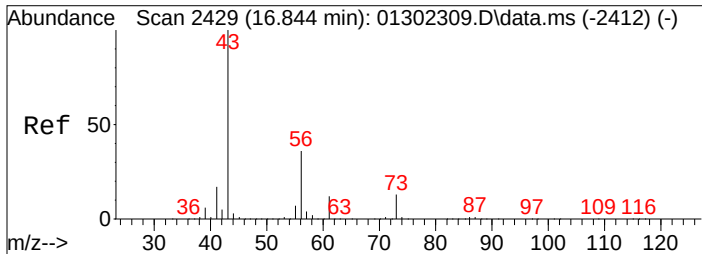
Tgt Ion: 91 Resp: 29936
Ion Ratio Lower Upper
91 100
92 58.5 39.8 79.8



#59
2-Hexanone
Concen: 0.05 ng
RT: 16.22 min Scan# 2316
Delta R.T. 0.011 min
Lab File: 03242313.D
Acq: 24 Mar 2023 12:50

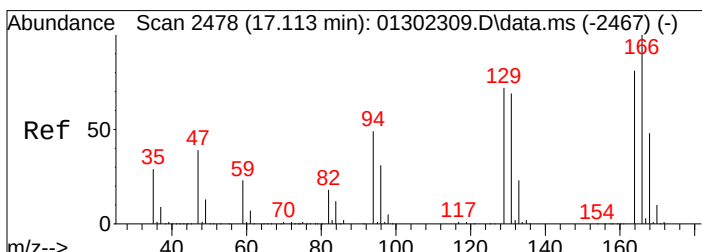
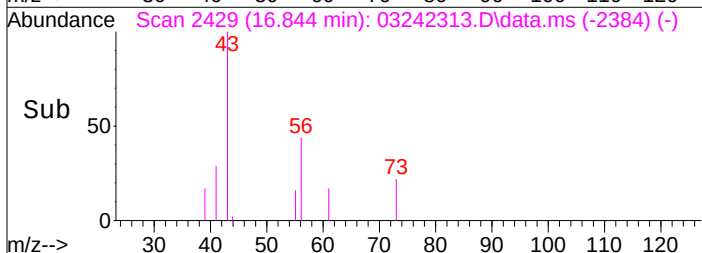
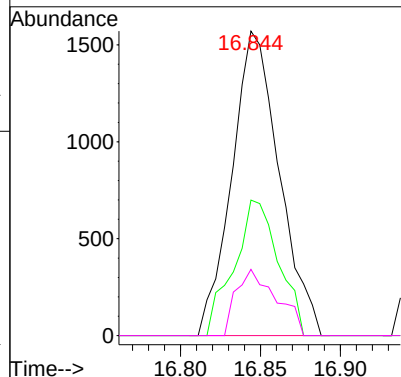
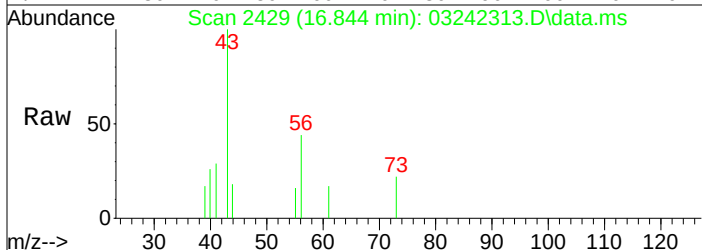
Tgt Ion: 43 Resp: 2285
Ion Ratio Lower Upper
43 100
58 35.5 32.3 72.3





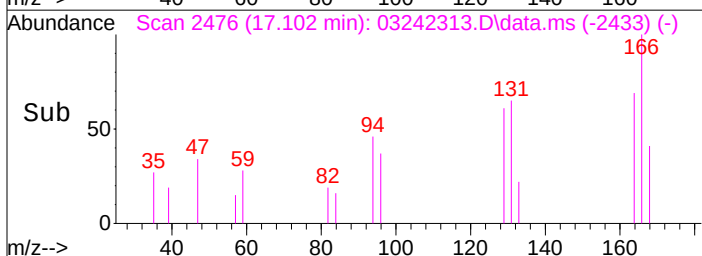
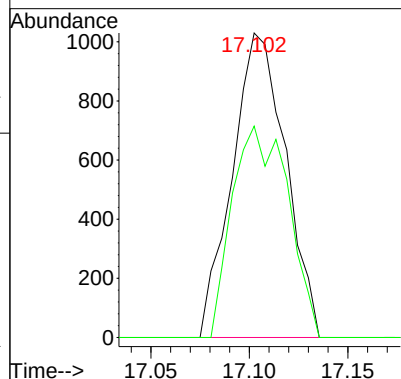
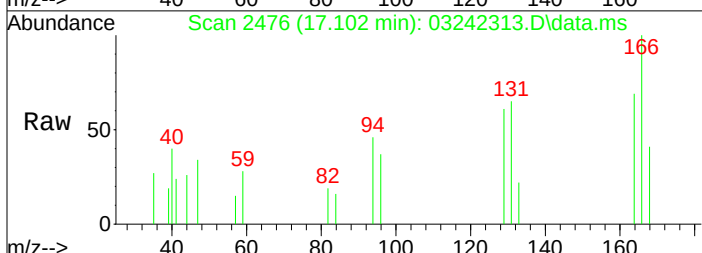
#62
n-Butyl Acetate
Concen: 0.07 ng
RT: 16.84 min Scan# 2429
Delta R.T. 0.000 min
Lab File: 03242313.D
Acq: 24 Mar 2023 12:50

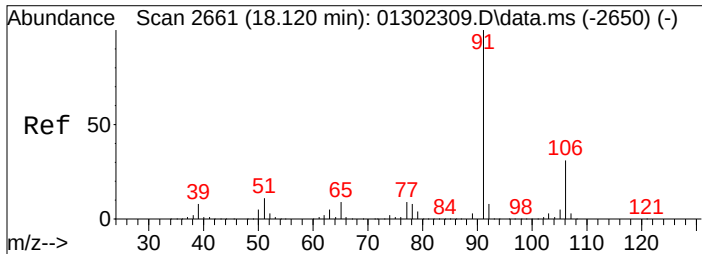
Tgt Ion:	43	Resp:	3246
Ion Ratio		Lower	Upper
43	100		
56	41.8	21.0	61.0
73	18.5	0.0	34.3



#64
Tetrachloroethene
Concen: 0.09 ng
RT: 17.10 min Scan# 2476
Delta R.T. -0.011 min
Lab File: 03242313.D
Acq: 24 Mar 2023 12:50

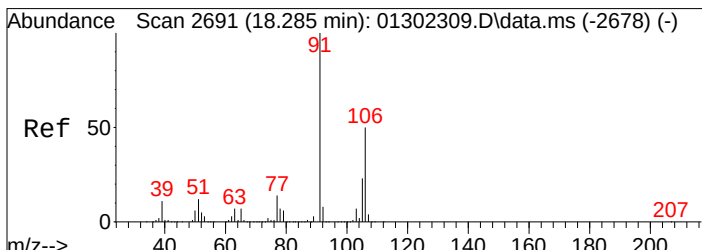
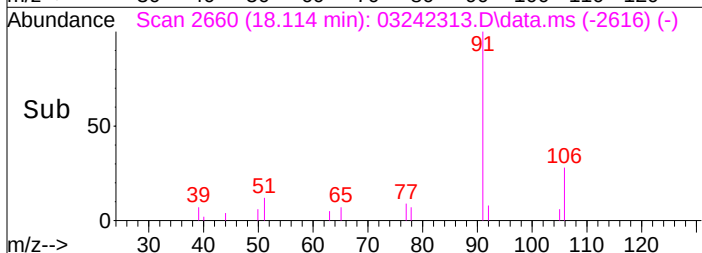
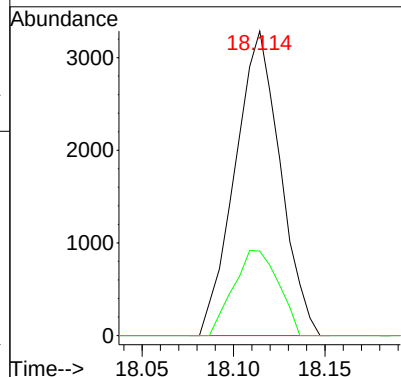
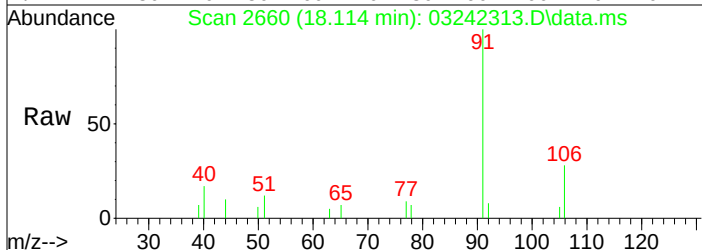
Tgt Ion:	166	Resp:	1939
Ion Ratio		Lower	Upper
166	100		
164	73.0	58.7	98.7





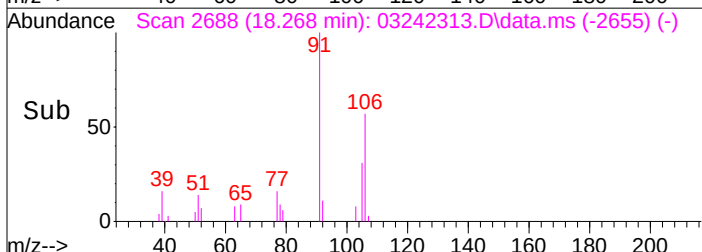
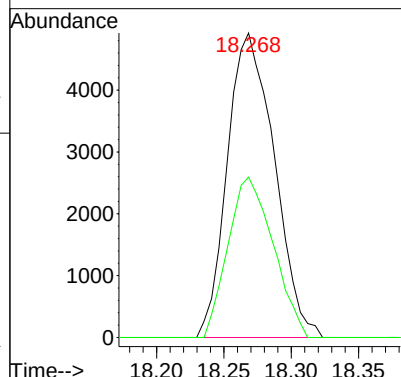
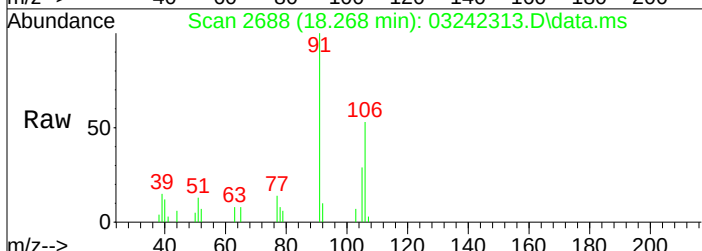
#66
Ethylbenzene
Concen: 0.06 ng
RT: 18.11 min Scan# 2660
Delta R.T. -0.005 min
Lab File: 03242313.D
Acq: 24 Mar 2023 12:50

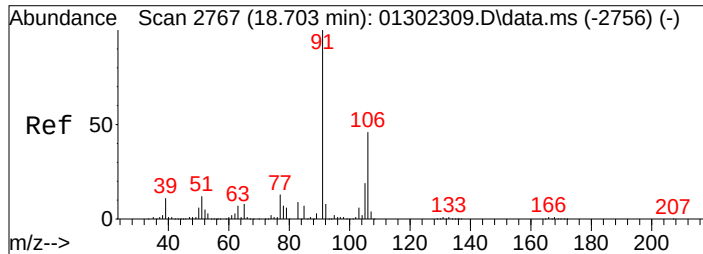
Tgt Ion:	91	Resp:	5655
Ion Ratio	Lower	Upper	
91	100		
106	27.8	11.5	51.5



#67
m- & p-Xylenes
Concen: 0.16 ng
RT: 18.27 min Scan# 2688
Delta R.T. -0.016 min
Lab File: 03242313.D
Acq: 24 Mar 2023 12:50

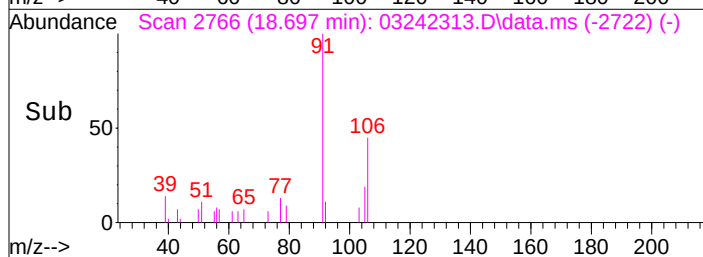
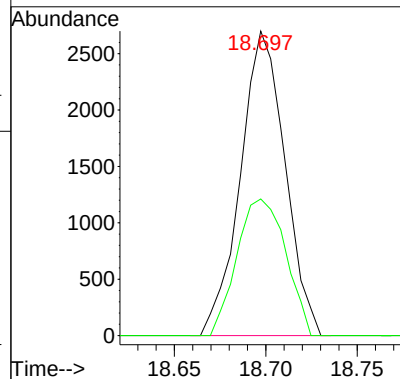
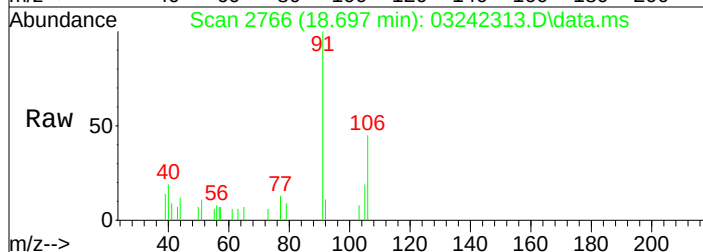
Tgt Ion:	91	Resp:	11927
Ion Ratio	Lower	Upper	
91	100		
106	50.7	29.2	69.2





#70
 o-Xylene
 Concen: 0.06 ng
 RT: 18.70 min Scan# 2766
 Delta R.T. -0.005 min
 Lab File: 03242313.D
 Acq: 24 Mar 2023 12:50

Tgt Ion: 91 Resp: 4580
 Ion Ratio Lower Upper
 91 100
 106 49.1 27.3 67.3



Data File : I:\MS16\DATA\2023_03\24\03242313.D
 Acq On : 24 Mar 2023 12:50
 Sample : P2301250-039 (1000mL)
 Misc : S35-01312301

Vial: 7
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 26 20:28:54 2023

Quant Method : I:\MS16\METHODS\C16122022.M

Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD

QLast Update : Wed Dec 21 05:02:49 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

IDA 3/26/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.28	130	212187	12.500	ng	-0.02
16) 1,4-Difluorobenzene (C_2)	13.41	114	981281	12.500	ng	-0.01
19) Chlorobenzene-d5 (C_3)	17.72	54	215785	12.500	ng	0.00

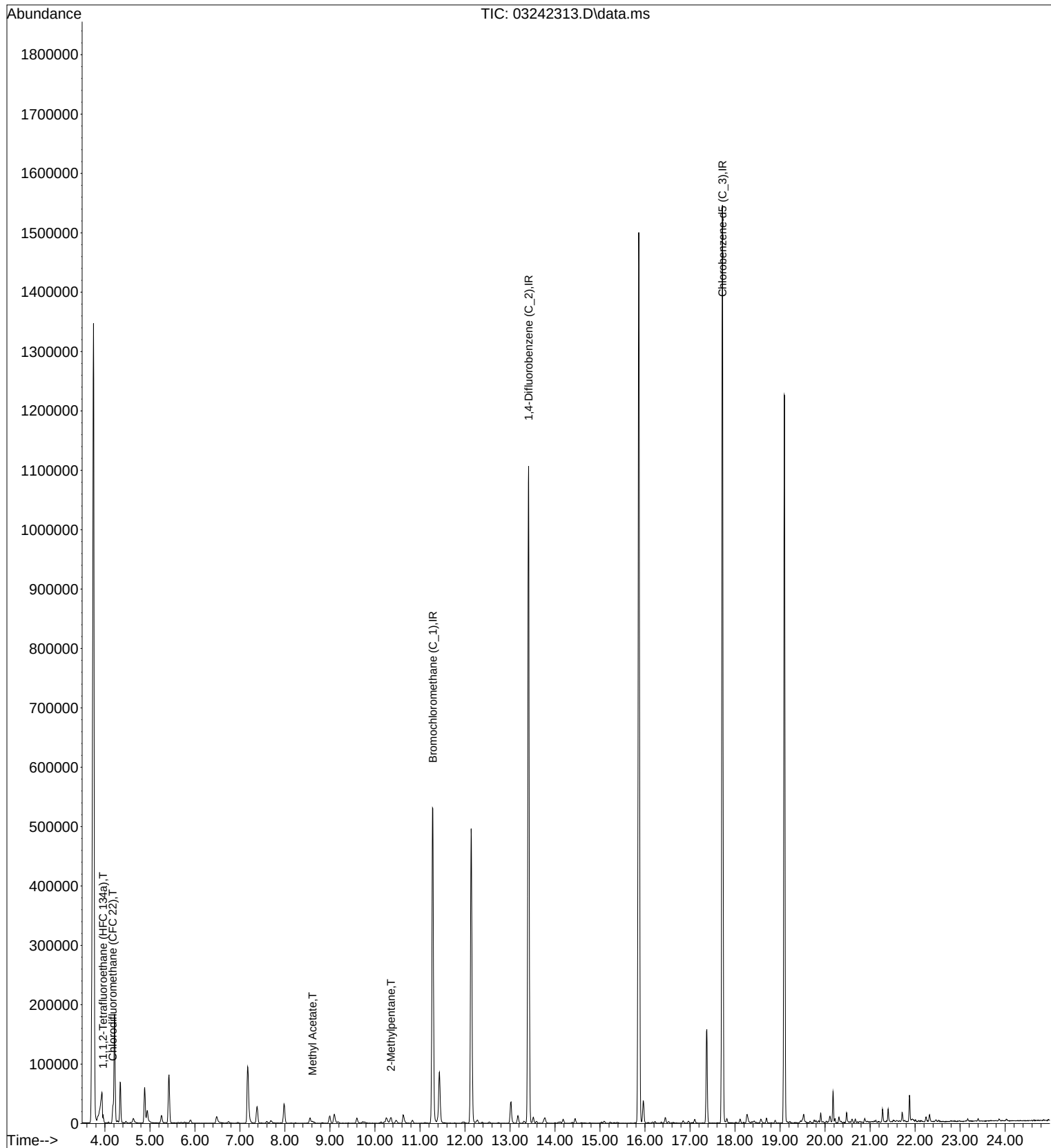
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.87	85	738	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.96	83	5560	0.331	ng	91
4) 1,1-Difluoroethane	4.08	65	526	N.D.		
5) Chlorodifluoromethane ...	4.17	67	2460	0.469	ng	92
6) 1-Chloro-1,1-Difluoroe...	4.64	65	2611	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	8.61	43	5785	0.110	ng	# 91
12) 2-Methylpentane	10.36	71	2312	0.111	ng	# 39
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	13.18	84	1316	N.D.		
17) 2,3-Dimethylpentane	13.58	56	1240	N.D.		
18) Dibromomethane	13.83	174	252	N.D.		
20) Methyl Cyclohexane	15.09	55	1303	N.D.		
21) 1,3-Dichloropropane	0.00	76	0	N.D.	d	
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	0.00	91	0	N.D.		
24) 1,2,3-Trichloropropane	0.00	75	0	N.D.		
25) Bromobenzene	0.00	77	0	N.D.		
26) 2-Chlorotoluene	19.67	91	1597	N.D.		
27) 4-Chlorotoluene	19.67	91	1597	N.D.		
28) Indane	20.77	117	295	N.D.		
29) Indene	0.00	115	0	N.D.		
30) 1,2,4,5-Tetramethylben...	21.64	119	902	N.D.		
31) 1,2,3,4-Tetramethylben...	21.64	119	902	N.D.		
32) 1,2,3,5-Tetramethylben...	21.99	119	617	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\24\03242313.D
Acq On : 24 Mar 2023 12:50
Sample : P2301250-039 (1000mL)
Misc : S35-01312301

Vial: 7
Operator: WA
Inst : GCMS-16

Quant Time: Mar 26 20:28:54 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG9

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-040

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01610

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.40 Final Pressure (psig): 3.60

Container Dilution Factor: 1.49

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.8	0.79	0.13	0.56	0.16	0.026	
74-87-3	Chloromethane	0.28	0.31	0.13	0.13	0.15	0.062	J
75-01-4	Vinyl Chloride	ND	0.16	0.085	ND	0.064	0.033	
74-83-9	Bromomethane	ND	0.31	0.11	ND	0.081	0.028	
75-00-3	Chloroethane	ND	0.31	0.098	ND	0.12	0.037	
67-64-1	Acetone	4.9	7.9	1.8	2.1	3.3	0.75	J
75-69-4	Trichlorofluoromethane	1.4	0.77	0.12	0.25	0.14	0.021	
75-35-4	1,1-Dichloroethene	ND	0.16	0.11	ND	0.041	0.028	
75-09-2	Methylene Chloride	0.38	0.79	0.22	0.11	0.23	0.064	J
76-13-1	Trichlorotrifluoroethane	0.53	0.80	0.11	0.069	0.11	0.015	J
75-15-0	Carbon Disulfide	ND	1.6	0.24	ND	0.51	0.077	
156-60-5	trans-1,2-Dichloroethene	ND	0.16	0.11	ND	0.041	0.028	
75-34-3	1,1-Dichloroethane	ND	0.16	0.12	ND	0.041	0.029	
1634-04-4	Methyl tert-Butyl Ether	ND	0.80	0.094	ND	0.22	0.026	
78-93-3	2-Butanone (MEK)	1.1	1.5	0.16	0.38	0.53	0.056	J
156-59-2	cis-1,2-Dichloroethene	ND	0.16	0.11	ND	0.041	0.028	
67-66-3	Chloroform	0.15	0.16	0.11	0.031	0.034	0.022	J
107-06-2	1,2-Dichloroethane	ND	0.16	0.088	ND	0.041	0.022	
71-55-6	1,1,1-Trichloroethane	0.12	0.16	0.098	0.022	0.030	0.018	J
71-43-2	Benzene	0.73	0.16	0.11	0.23	0.051	0.036	
56-23-5	Carbon Tetrachloride	0.48	0.16	0.11	0.076	0.026	0.018	
110-82-7	Cyclohexane	ND	1.6	0.22	ND	0.45	0.065	
78-87-5	1,2-Dichloropropane	ND	0.16	0.098	ND	0.035	0.021	
75-27-4	Bromodichloromethane	ND	0.16	0.11	ND	0.024	0.017	
79-01-6	Trichloroethene	0.66	0.16	0.11	0.12	0.031	0.020	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG9

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-040

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01610

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.40 Final Pressure (psig): 3.60

Container Dilution Factor: 1.49

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.80	0.12	ND	0.18	0.027	
108-10-1	4-Methyl-2-pentanone	ND	1.6	0.11	ND	0.40	0.027	
10061-02-6	trans-1,3-Dichloropropene	ND	0.76	0.16	ND	0.17	0.036	
79-00-5	1,1,2-Trichloroethane	ND	0.16	0.080	ND	0.030	0.015	
108-88-3	Toluene	0.99	0.79	0.097	0.26	0.21	0.026	
591-78-6	2-Hexanone	0.20	1.6	0.098	0.050	0.40	0.024	J
124-48-1	Dibromochloromethane	ND	0.16	0.10	ND	0.019	0.012	
106-93-4	1,2-Dibromoethane	ND	0.16	0.092	ND	0.021	0.012	
127-18-4	Tetrachloroethene	0.27	0.16	0.10	0.039	0.024	0.015	
108-90-7	Chlorobenzene	ND	0.79	0.11	ND	0.17	0.023	
100-41-4	Ethylbenzene	0.20	0.79	0.11	0.045	0.18	0.026	J
179601-23-1	m,p-Xylenes	0.60	1.6	0.21	0.14	0.38	0.048	J
75-25-2	Bromoform	ND	0.80	0.16	ND	0.078	0.016	
100-42-5	Styrene	ND	0.79	0.13	ND	0.19	0.030	
95-47-6	o-Xylene	0.23	0.79	0.11	0.053	0.18	0.026	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	0.11	ND	0.024	0.016	
98-82-8	Cumene	ND	0.80	0.11	ND	0.16	0.023	
541-73-1	1,3-Dichlorobenzene	ND	0.79	0.12	ND	0.13	0.020	
106-46-7	1,4-Dichlorobenzene	ND	0.79	0.12	ND	0.13	0.020	
95-50-1	1,2-Dichlorobenzene	ND	0.80	0.12	ND	0.13	0.020	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.6	0.15	ND	0.17	0.015	
120-82-1	1,2,4-Trichlorobenzene	ND	1.6	0.19	ND	0.22	0.026	
79-20-9	Methyl Acetate	0.36	0.75	0.36	0.12	0.25	0.12	J, X
108-87-2	Methylcyclohexane	ND	0.75	0.39	ND	0.19	0.097	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS16\DATA\2023_03\24\03242314.D
 Acq On : 24 Mar 2023 13:24
 Sample : P2301250-040 (1000mL)
 Misc : S35-01312301

Vial: 8
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 24 14:00:38 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

3/26/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	210287	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	967153	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.72	54	214375	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	375274	13.419	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	107.36%	
57) Toluene-d8 (SS2)	15.86	98	1110677	11.834	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	94.64%	
73) Bromofluorobenzene (SS3)	19.10	174	340924	11.647	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	93.20%	

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	4.34	85	58731	1.869	ng	99
4) Chloromethane	4.63	50	5460	0.186	ng	96
5) 1,2-Dichloro-1,1,2,2-t...	4.90	135	1444	0.082	ng	92
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.34	54	528	N.D.		
8) Bromomethane	5.77	94	306	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.48	45	20517	1.014	ng	96
11) Acetonitrile	6.74	41	3452	0.068	ng	93
12) Acrolein	6.95	56	2442	0.170	ng	98
13) Acetone	7.17	58	51117	3.303	ng	# 66
14) Trichlorofluoromethane	7.37	101	27215	0.939	ng	98
15) 2-Propanol (Isopropanol)	7.68	45	11390	0.211	ng	98
16) Acrylonitrile	7.89	53	296	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	8.60	59	1461	N.D.		
19) Methylene Chloride	8.55	84	4353	0.254	ng	94
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	8.99	151	5096	0.353	ng	97
22) Carbon Disulfide	8.83	76	1268	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	10.09	63	724	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	10.62	72	8450	0.753	ng	# 92
28) cis-1,2-Dichloroethene	11.11	61	1614	0.063	ng	89
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	11.43	61	33486	4.563	ng	95
31) n-Hexane	11.41	57	7112	0.194	ng	96
32) Chloroform	11.45	83	2834	0.101	ng	100
34) Tetrahydrofuran (THF)	11.94	72	166	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	12.25	62	1215	0.053	ng	81
38) 1,1,1-Trichloroethane	12.53	97	2065	0.079	ng	100
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.02	78	33288	0.489	ng	99
42) Carbon Tetrachloride	13.18	117	7096	0.320	ng	99
43) Cyclohexane	13.31	84	1609	0.056	ng	95
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	13.87	63	166	N.D.		
46) Bromodichloromethane	14.06	83	115	N.D.		
47) Trichloroethene	14.12	130	8219	0.444	ng	99
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	14.18	57	17865	0.194	ng	78
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS16\DATA\2023_03\24\03242314.D
 Acq On : 24 Mar 2023 13:24
 Sample : P2301250-040 (1000mL)
 Misc : S35-01312301

Vial: 8
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 24 14:00:38 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

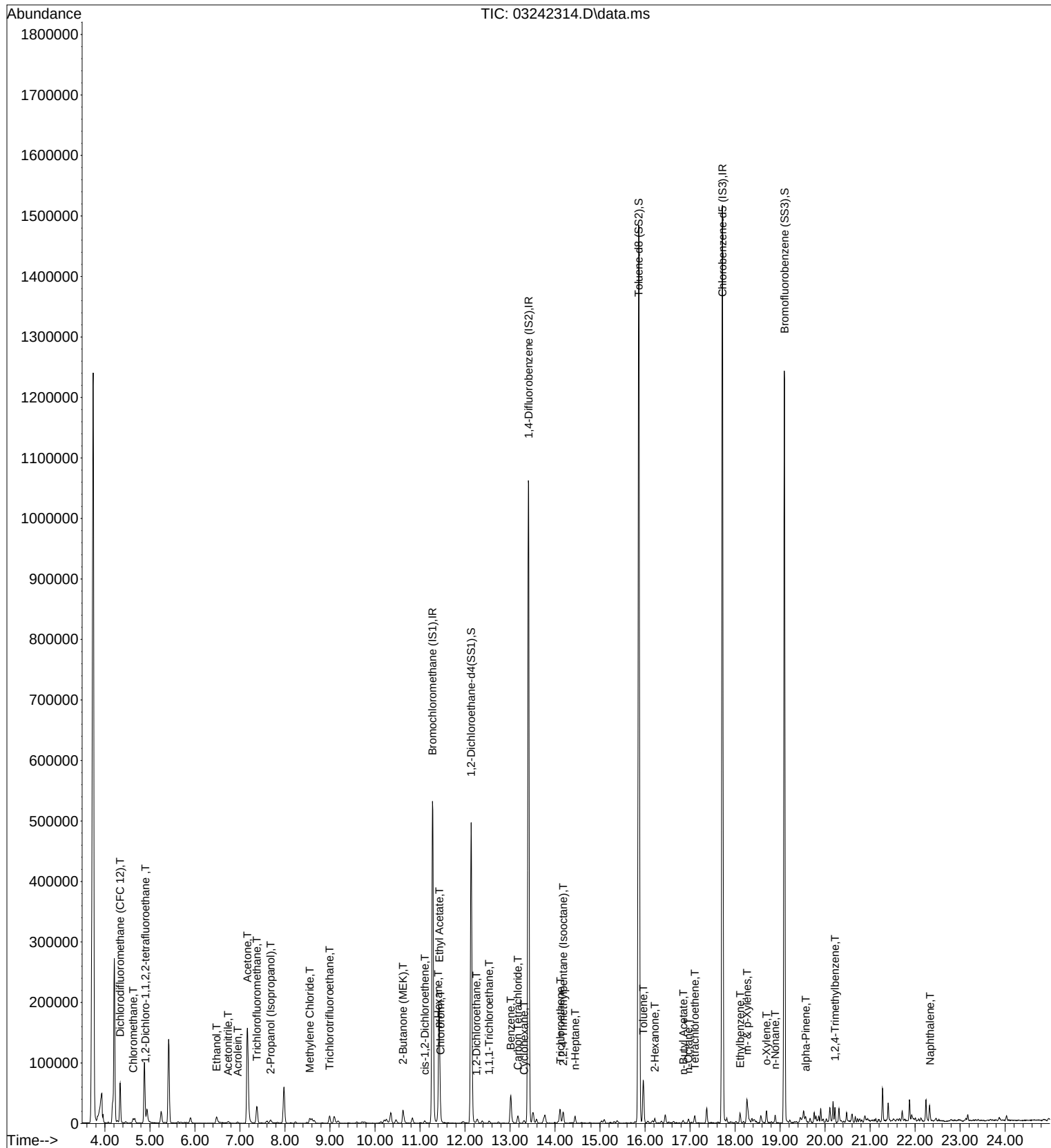
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.45	71	2867	0.143	ng	89
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.	d	
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.96	91	54741	0.666	ng	97
59) 2-Hexanone	16.22	43	5927	0.137	ng	86
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.85	43	3935	0.079	ng	96
63) n-Octane	16.96	57	1177	0.056	ng	98
64) Tetrachloroethene	17.11	166	3726	0.178	ng	90
65) Chlorobenzene	17.77	112	716	N.D.		
66) Ethylbenzene	18.11	91	12241	0.132	ng	100
67) m- & p-Xylenes	18.27	91	29540	0.402	ng	99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.60	104	1327	N.D.		
70) o-Xylene	18.70	91	11081	0.153	ng	99
71) n-Nonane	18.89	43	5569	0.108	ng	87
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	19.22	105	1528	N.D.		
75) alpha-Pinene	19.57	93	4005	0.171	ng	# 1
76) n-Propylbenzene	19.66	91	3576	N.D.		
77) 3-Ethyltoluene	20.22	105	10994	No Calib	#	
78) 4-Ethyltoluene	19.79	105	3387	N.D.		
79) 1,3,5-Trimethylbenzene	19.86	105	3532	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.22	105	10994	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.22	105	10994	0.149	ng	83
83) n-Decane	20.23	58	313	No Calib	#	
84) Benzyl Chloride	20.42	91	159	N.D.		
85) 1,3-Dichlorobenzene	20.41	146	210	N.D.		
86) 1,4-Dichlorobenzene	20.41	146	210	N.D.		
87) sec-Butylbenzene	20.45	105	439	N.D.		
88) 4-Isopropyltoluene (p-...	20.59	119	3467	N.D.		
89) 1,2,3-Trimethylbenzene	20.22	105	10994	No Calib	#	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	0.00	68	0	N.D.	d	
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	21.40	58	279	No Calib	#	
94) 1,2,4-Trichlorobenzene	22.23	180	198	N.D.		
95) Naphthalene	22.33	128	6842	0.075	ng	97
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	18.19	55	587	No Calib	#	
99) tert-Butylbenzene	20.22	119	1586	N.D.		
100) n-Butylbenzene	20.96	91	1681	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\24\03242314.D
Acq On : 24 Mar 2023 13:24
Sample : P2301250-040 (1000mL)
Misc : S35-01312301

Vial: 8
Operator: WA
Inst : GCMS-16

Quant Time: Mar 24 14:00:38 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



Data File : I:\MS16\DATA\2023_03\24\03242314.D
 Acq On : 24 Mar 2023 13:24
 Sample : P2301250-040 (1000mL)
 Misc : S35-01312301

Vial: 8
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 24 14:00:38 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:TO15B.M

407 3/24/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	210287	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	967153	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.72	54	214375	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	375274	13.419	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	107.36%	
57) Toluene-d8 (SS2)	15.86	98	1110677	11.834	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	94.64%	
73) Bromofluorobenzene (SS3)	19.10	174	340924	11.647	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	93.20%	

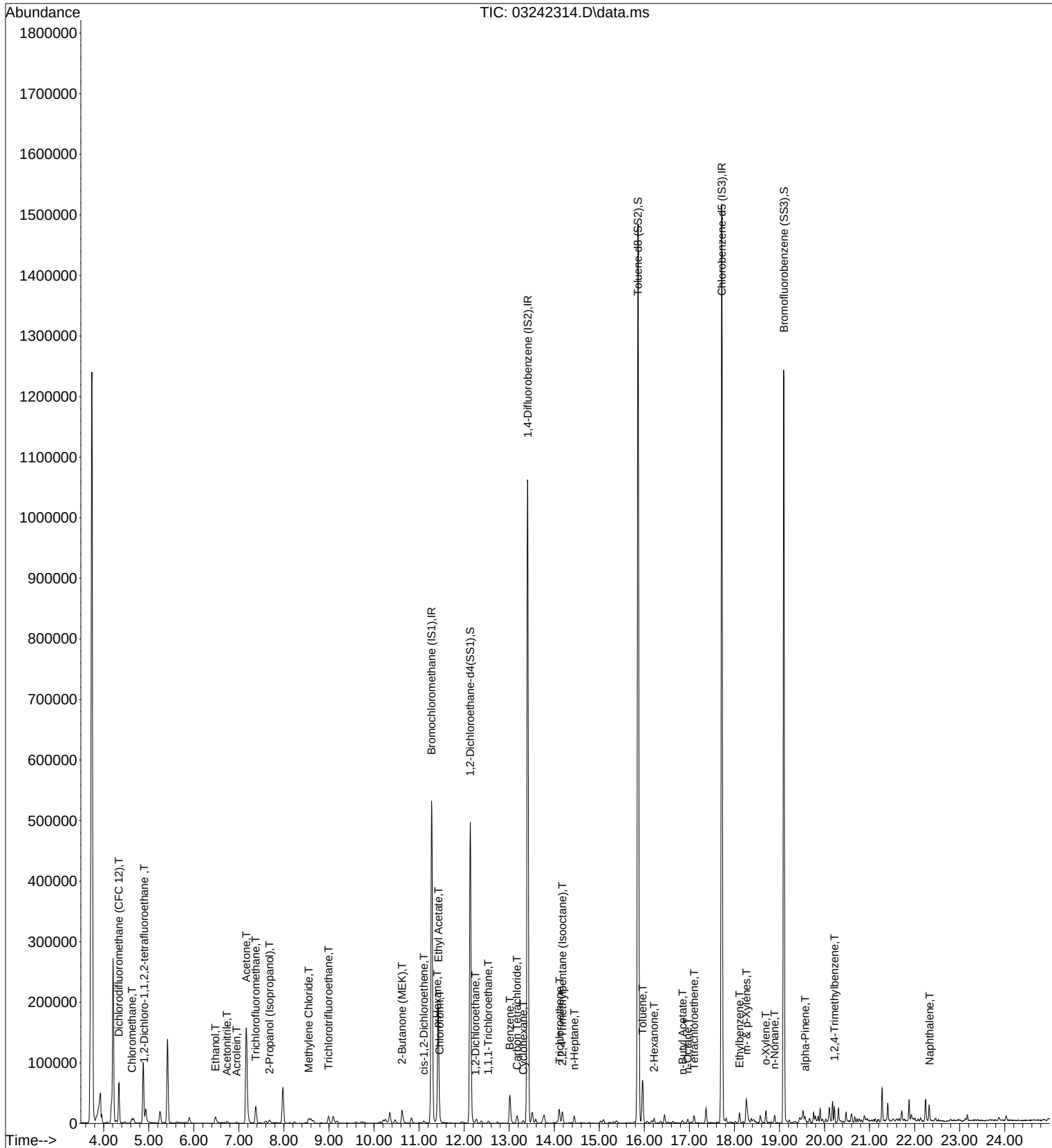
Target Compounds

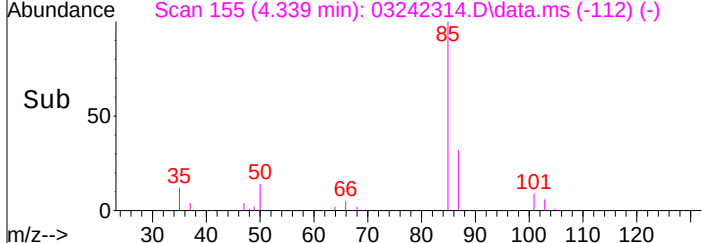
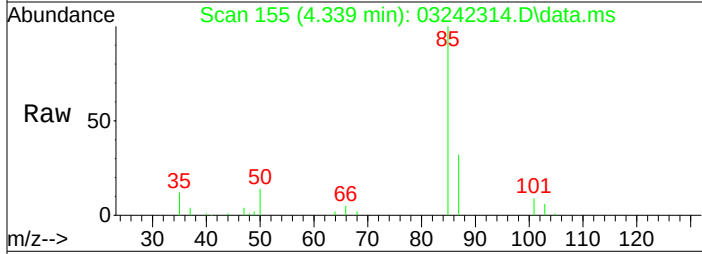
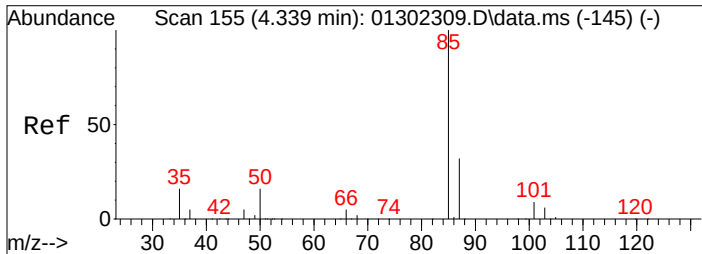
						Qvalue
3) Dichlorodifluoromethan...	4.34	85	58731	1.869	ng	99
4) Chloromethane	4.63	50	5460	0.186	ng	96
5) 1,2-Dichloro-1,1,2,2-t...	4.90	135	1444	0.082	ng	92
10) Ethanol	6.48	45	20517	1.014	ng	96
11) Acetonitrile	6.74	41	3452	0.068	ng	93
12) Acrolein	6.95	56	2442	0.170	ng	98
13) Acetone	7.17	58	51117	3.303	ng	# 66
14) Trichlorofluoromethane	7.37	101	27215	0.939	ng	98
15) 2-Propanol (Isopropanol)	7.68	45	11390	0.211	ng	98
19) Methylene Chloride	8.55	84	4353	0.254	ng	94
21) Trichlorotrifluoroethane	8.99	151	5096	0.353	ng	97
27) 2-Butanone (MEK)	10.62	72	8450	0.753	ng	# 92
28) cis-1,2-Dichloroethene	11.11	61	1614	0.063	ng	89
30) Ethyl Acetate	11.43	61	33486	4.563	ng	95
31) n-Hexane	11.41	57	7112	0.194	ng	96
32) Chloroform	11.45	83	2834	0.101	ng	100
36) 1,2-Dichloroethane	12.25	62	1215	0.053	ng	81
38) 1,1,1-Trichloroethane	12.53	97	2065	0.079	ng	100
41) Benzene	13.02	78	33288	0.489	ng	99
42) Carbon Tetrachloride	13.18	117	7096	0.320	ng	99
43) Cyclohexane	13.31	84	1609	0.056	ng	95
47) Trichloroethene	14.12	130	8219	0.444	ng	99
49) 2,2,4-Trimethylpentane...	14.18	57	17865	0.194	ng	78
51) n-Heptane	14.45	71	2867	0.143	ng	89
58) Toluene	15.96	91	54741	0.666	ng	97
59) 2-Hexanone	16.22	43	5927	0.137	ng	86
62) n-Butyl Acetate	16.85	43	3935	0.079	ng	96
63) n-Octane	16.96	57	1177	0.056	ng	98
64) Tetrachloroethene	17.11	166	3726	0.178	ng	90
66) Ethylbenzene	18.11	91	12241	0.132	ng	100
67) m- & p-Xylenes	18.27	91	29540	0.402	ng	99
70) o-Xylene	18.70	91	11081	0.153	ng	99
71) n-Nonane	18.89	43	5569	0.108	ng	87
75) alpha-Pinene	19.57	93	4005	0.171	ng	# 1
82) 1,2,4-Trimethylbenzene	20.22	105	10994	0.149	ng	83
95) Naphthalene	22.33	128	6842	0.075	ng	97

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

Vial: 8
Operator: WA
Inst : GCMS-16

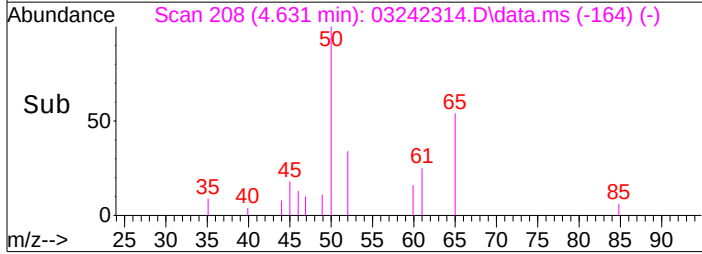
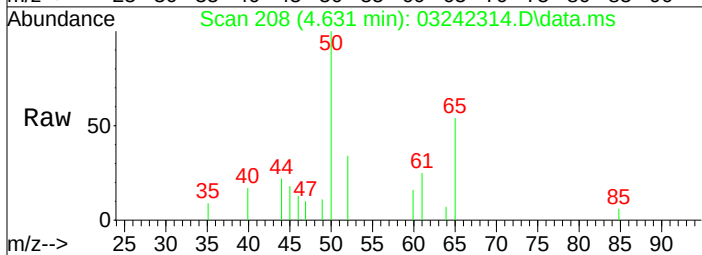
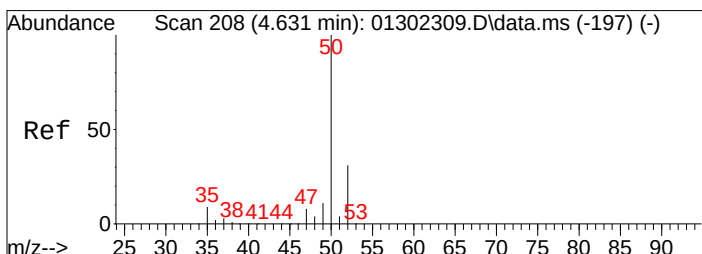
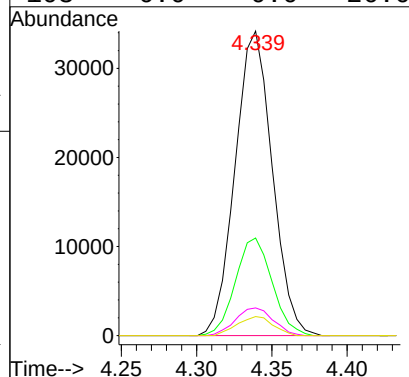
Quant Time: Mar 24 14:00:38 2023





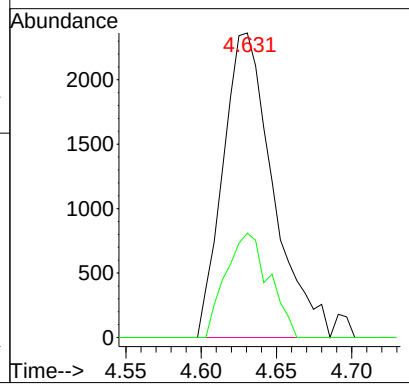
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.87 ng
 RT: 4.34 min Scan# 155
 Delta R.T. -0.011 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:24

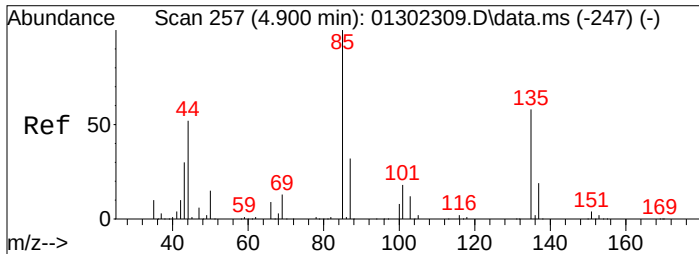
Tgt Ion:	85	Resp:	58731
Ion Ratio		Lower	Upper
85	100		
87	31.6	12.1	52.1
101	9.3	0.0	29.3
103	6.0	0.0	26.0



#4
 Chloromethane
 Concen: 0.19 ng
 RT: 4.63 min Scan# 208
 Delta R.T. -0.005 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:24

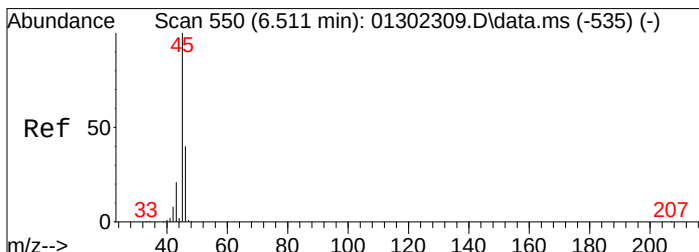
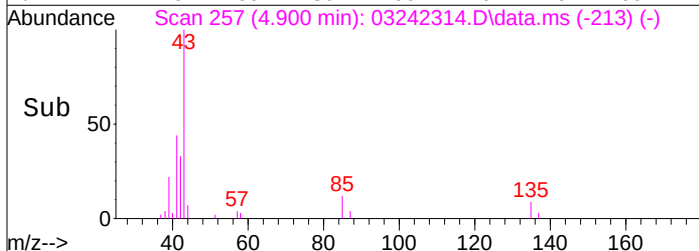
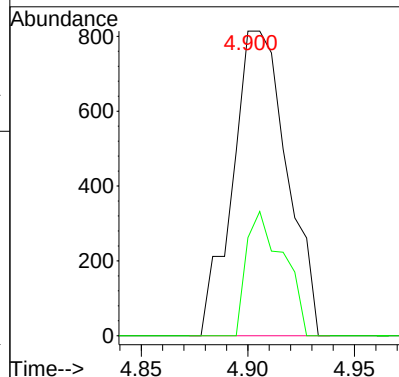
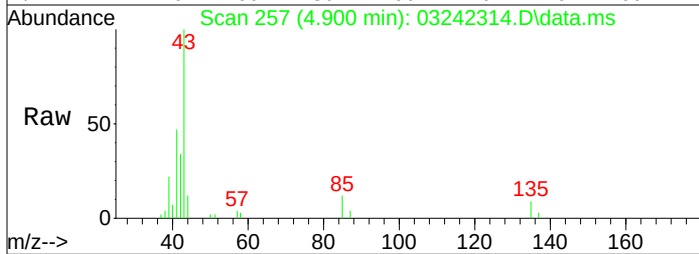
Tgt Ion:	50	Resp:	5460
Ion Ratio		Lower	Upper
50	100		
52	29.7	12.2	52.2





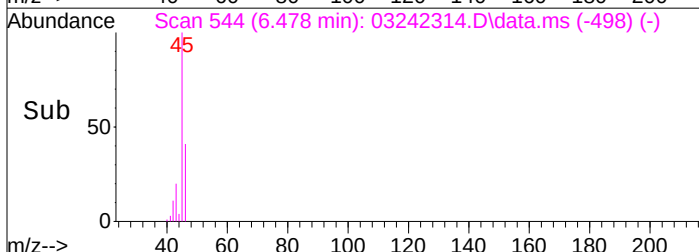
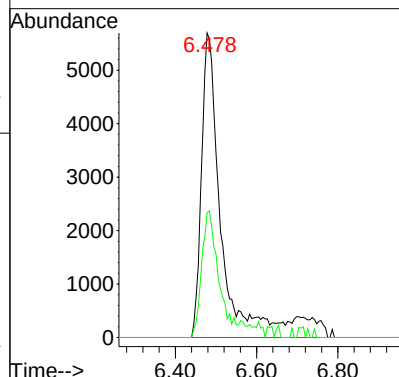
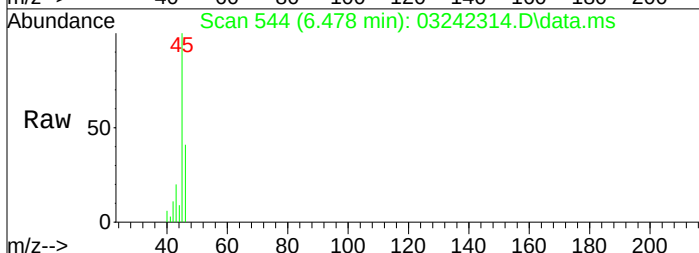
#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.08 ng
 RT: 4.90 min Scan# 257
 Delta R.T. -0.005 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:24

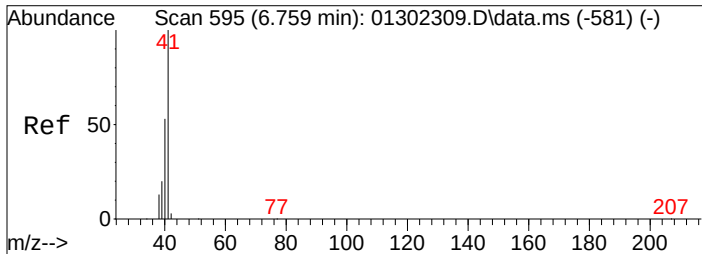
Tgt Ion: 135 Resp: 1444
 Ion Ratio Lower Upper
 135 100
 137 27.7 12.0 52.0



#10
 Ethanol
 Concen: 1.01 ng
 RT: 6.48 min Scan# 544
 Delta R.T. 0.000 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:24

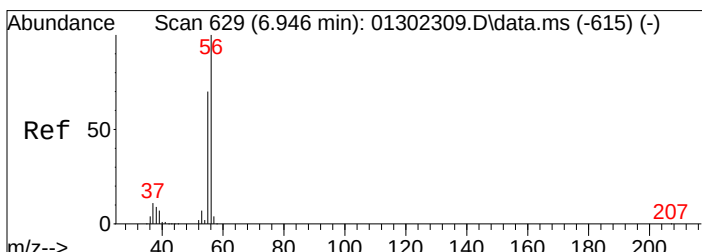
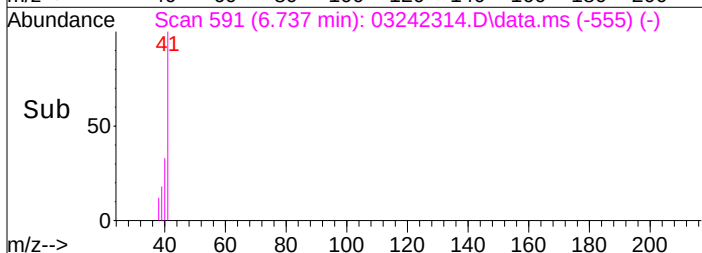
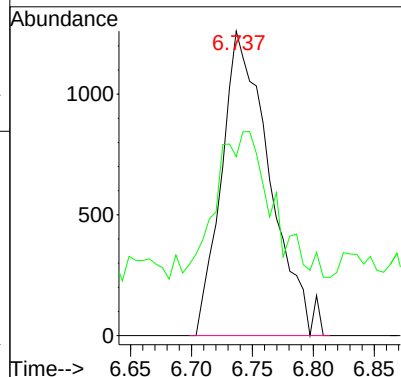
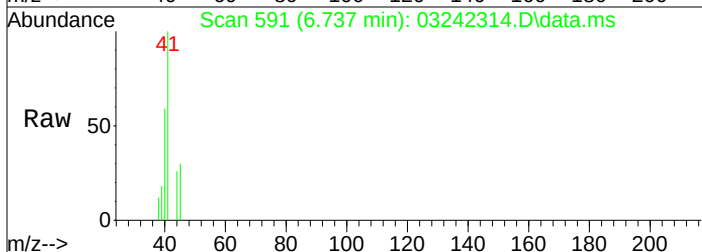
Tgt Ion: 45 Resp: 20517
 Ion Ratio Lower Upper
 45 100
 46 37.7 20.5 60.5





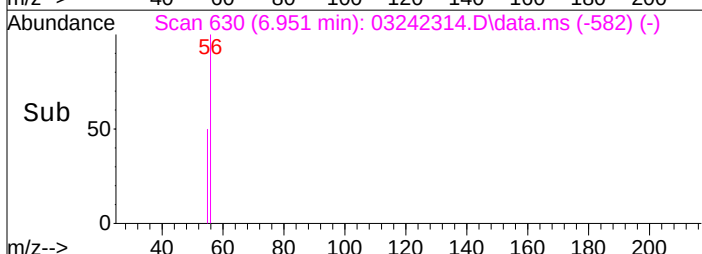
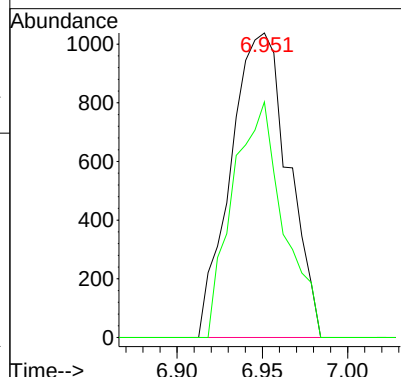
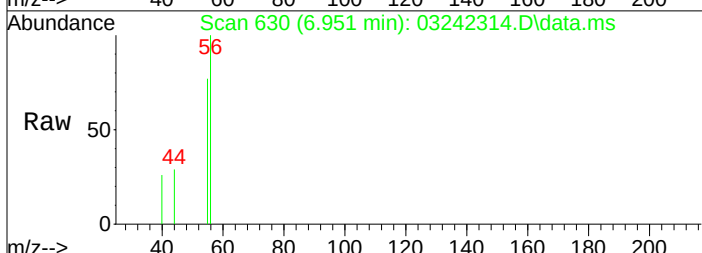
#11
Acetonitrile
Concen: 0.07 ng
RT: 6.74 min Scan# 591
Delta R.T. -0.000 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:24

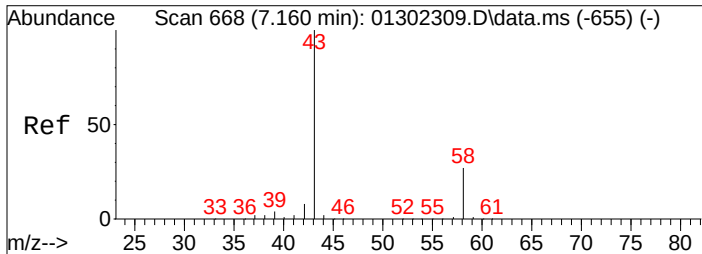
Tgt Ion: 41 Resp: 3452
Ion Ratio Lower Upper
41 100
40 57.6 32.4 72.4



#12
Acrolein
Concen: 0.17 ng
RT: 6.95 min Scan# 630
Delta R.T. 0.016 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:24

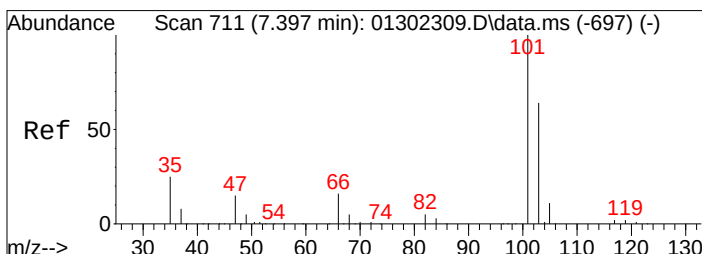
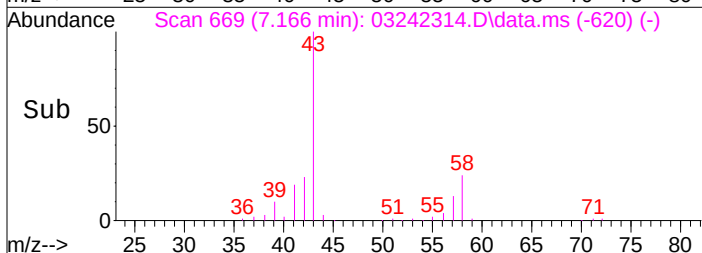
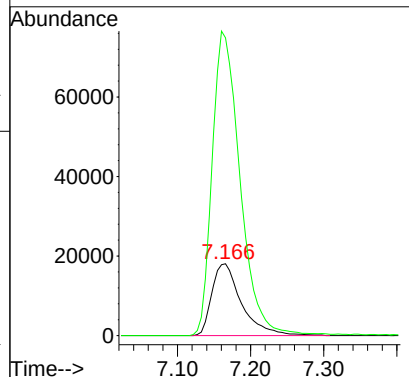
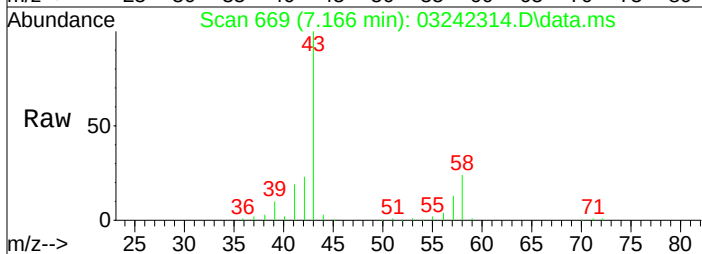
Tgt Ion: 56 Resp: 2442
Ion Ratio Lower Upper
56 100
55 68.1 49.9 89.9





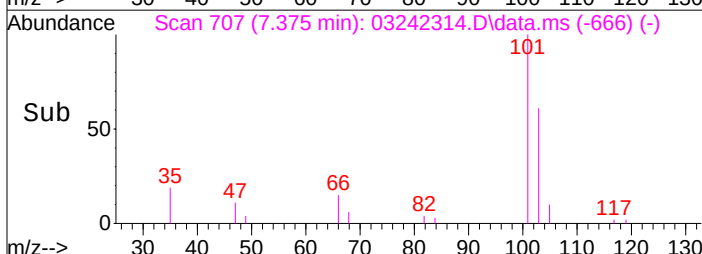
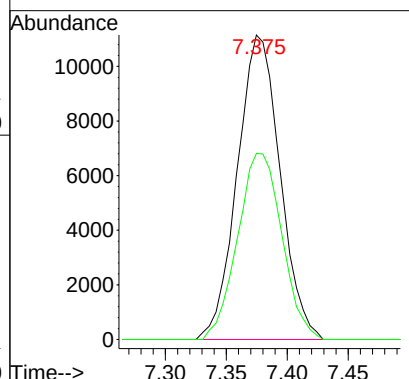
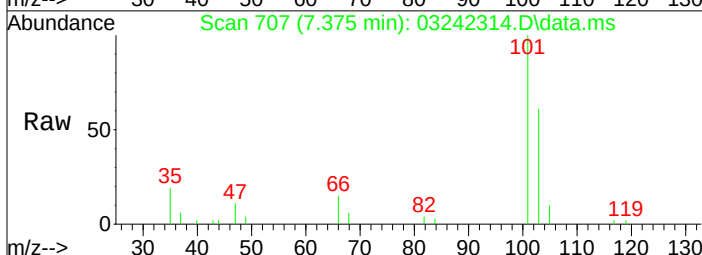
#13
Acetone
Concen: 3.30 ng
RT: 7.17 min Scan# 669
Delta R.T. 0.022 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:24

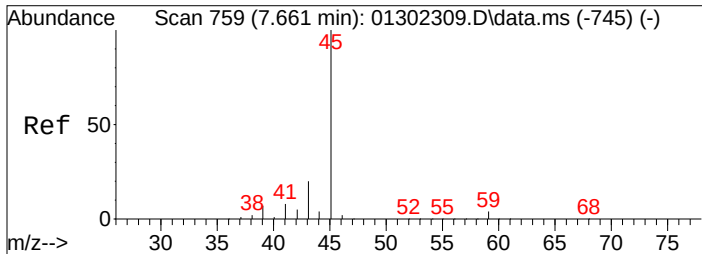
Tgt Ion: 58 Resp: 51117
Ion Ratio Lower Upper
58 100
43 398.5 298.5 358.5#



#14
Trichlorofluoromethane
Concen: 0.94 ng
RT: 7.37 min Scan# 707
Delta R.T. -0.022 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:24

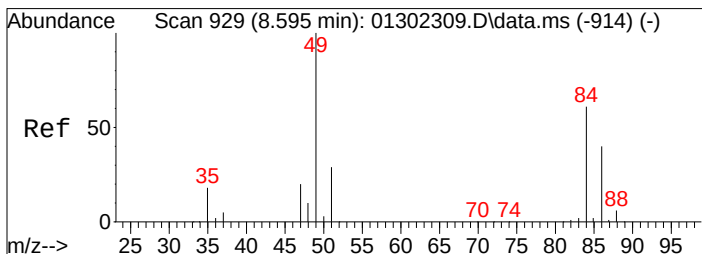
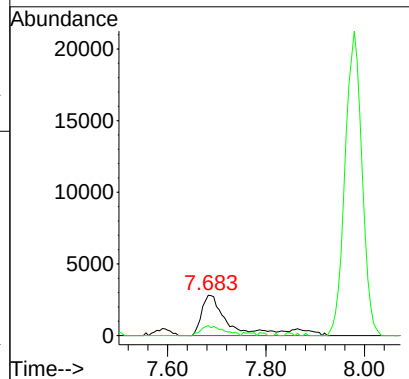
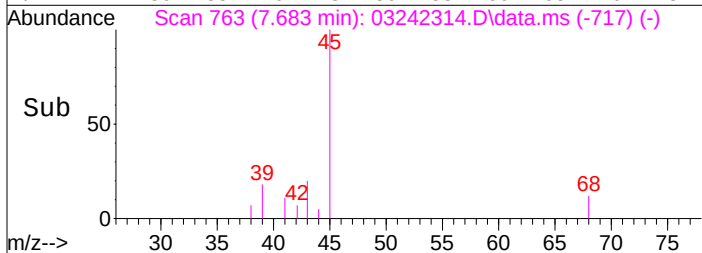
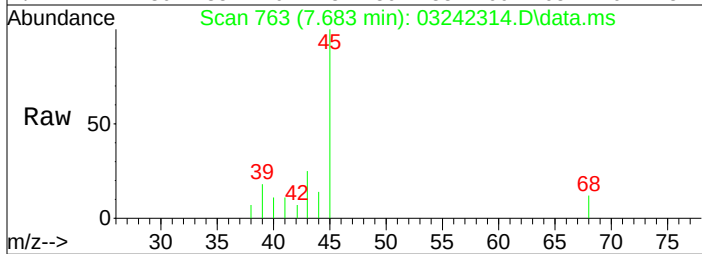
Tgt Ion: 101 Resp: 27215
Ion Ratio Lower Upper
101 100
103 63.2 44.8 84.8





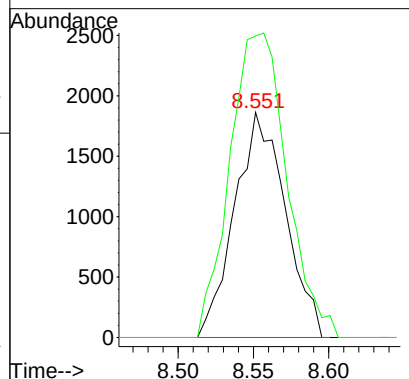
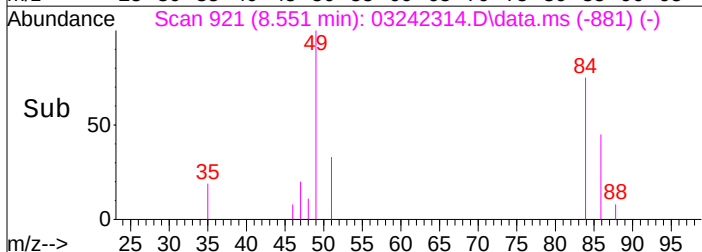
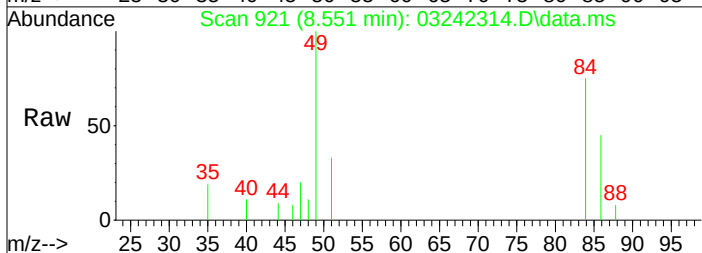
#15
 2-Propanol (Isopropanol)
 Concen: 0.21 ng
 RT: 7.68 min Scan# 763
 Delta R.T. 0.003 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:24

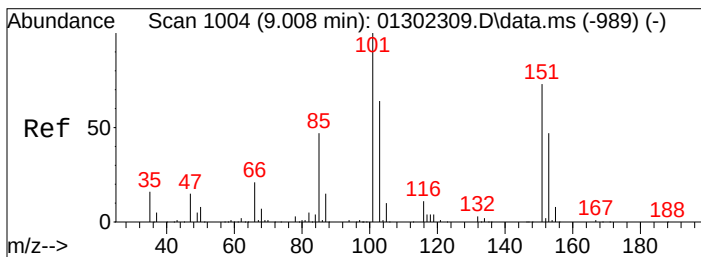
Tgt Ion: 45 Resp: 11390
 Ion Ratio Lower Upper
 45 100
 43 19.0 0.0 37.9



#19
 Methylene Chloride
 Concen: 0.25 ng
 RT: 8.55 min Scan# 921
 Delta R.T. -0.027 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:24

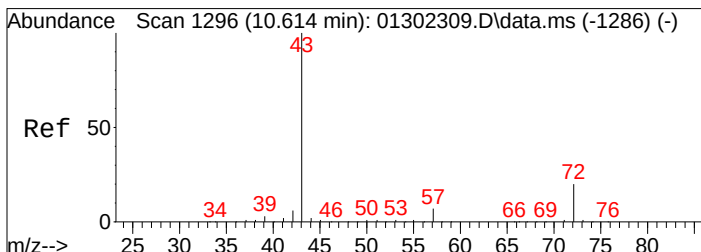
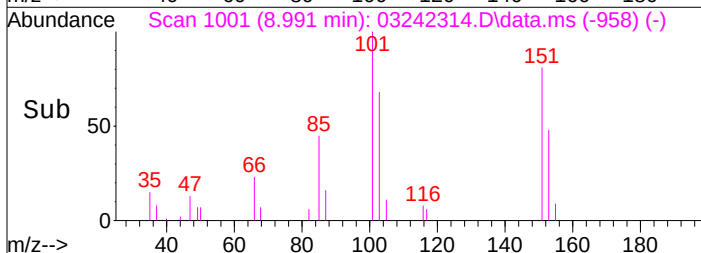
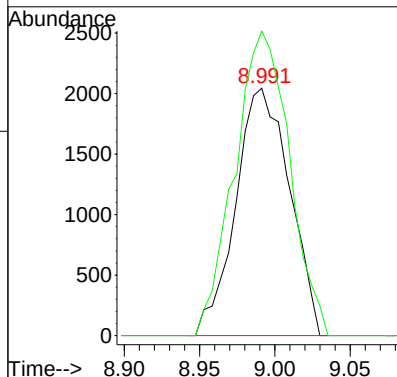
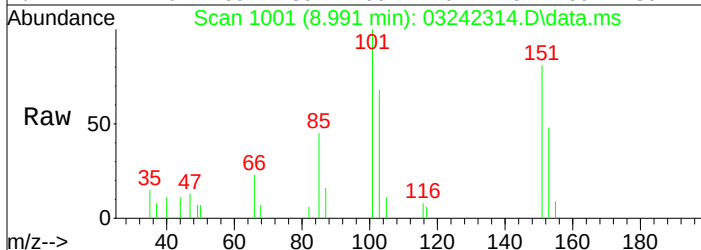
Tgt Ion: 84 Resp: 4353
 Ion Ratio Lower Upper
 84 100
 49 152.3 135.0 185.0





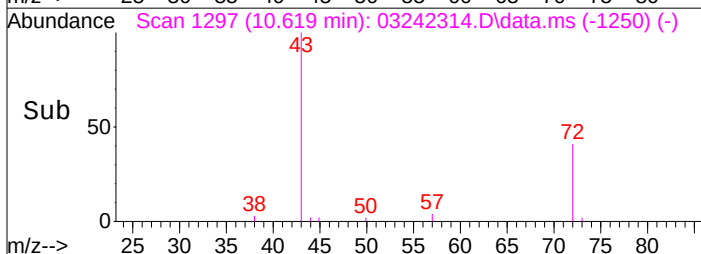
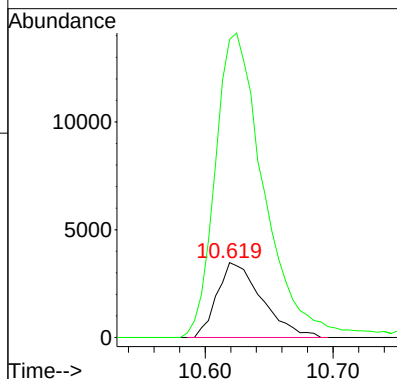
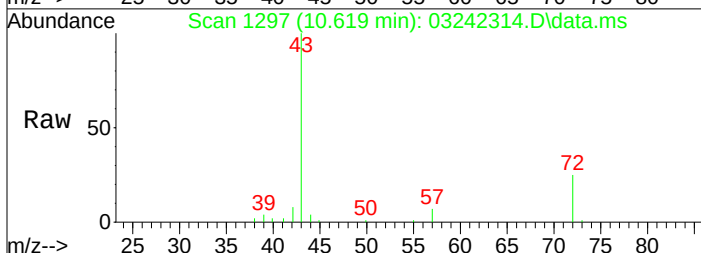
#21
 Trichlorotrifluoroethane
 Concen: 0.35 ng
 RT: 8.99 min Scan# 1001
 Delta R.T. -0.011 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:24

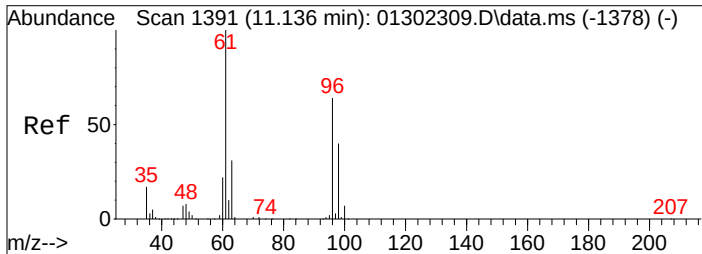
Tgt Ion: 151 Resp: 5096
 Ion Ratio Lower Upper
 151 100
 101 125.3 101.5 141.5



#27
 2-Butanone (MEK)
 Concen: 0.75 ng
 RT: 10.62 min Scan# 1297
 Delta R.T. 0.011 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:24

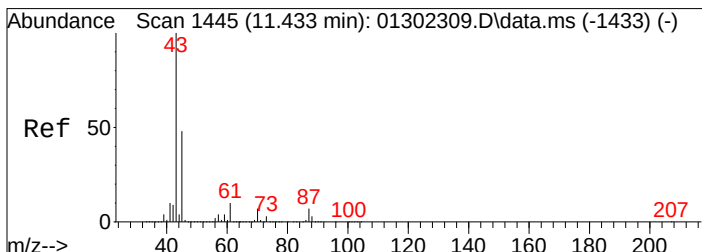
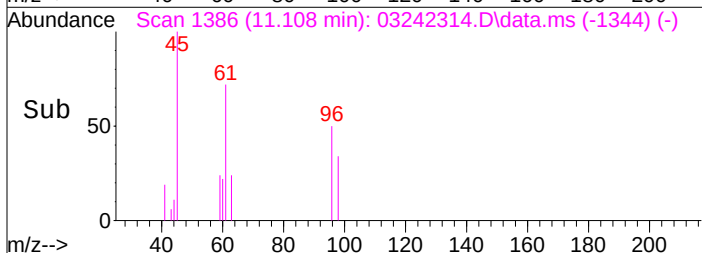
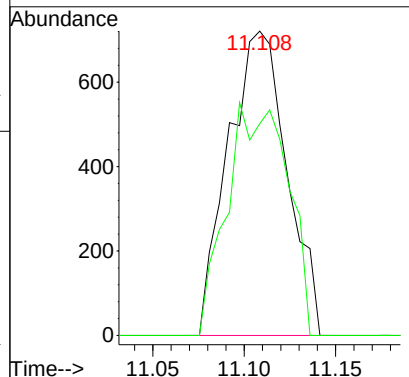
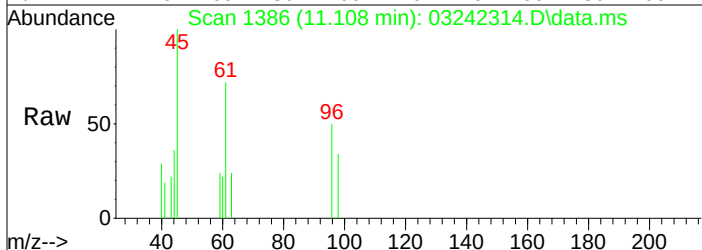
Tgt Ion: 72 Resp: 8450
 Ion Ratio Lower Upper
 72 100
 43 448.9 449.4 489.4#





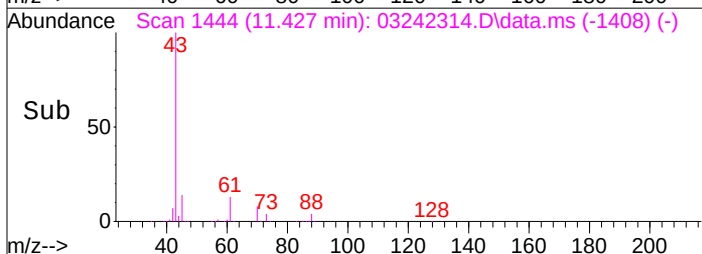
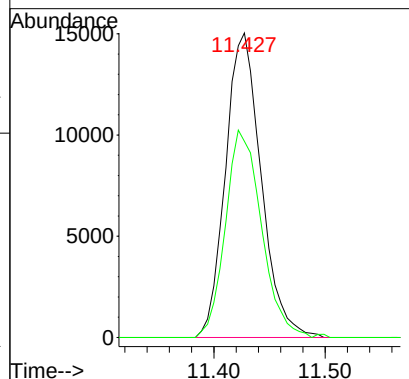
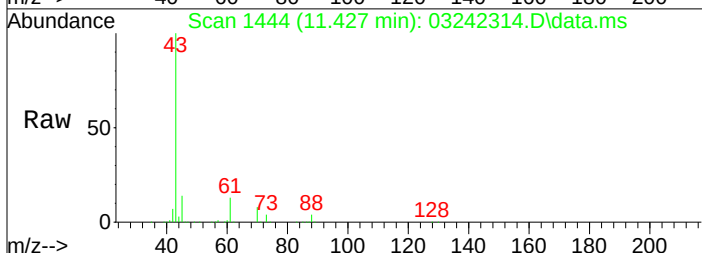
#28
 cis-1,2-Dichloroethene
 Concen: 0.06 ng
 RT: 11.11 min Scan# 1386
 Delta R.T. -0.017 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:24

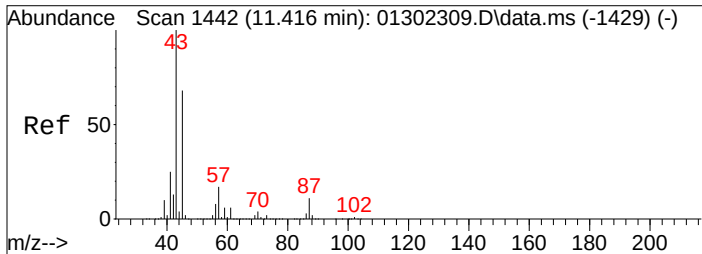
Tgt Ion:	61	Resp:	1614
Ion Ratio	Lower	Upper	
61	100		
96	78.8	49.9	89.9



#30
 Ethyl Acetate
 Concen: 4.56 ng
 RT: 11.43 min Scan# 1444
 Delta R.T. 0.000 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:24

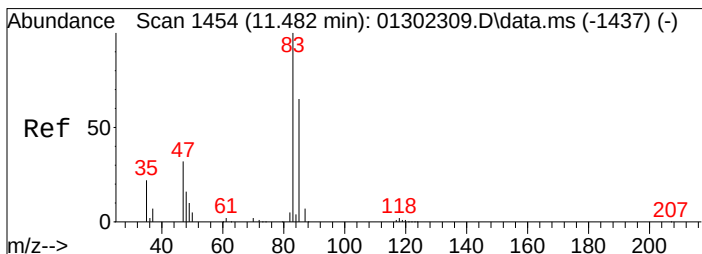
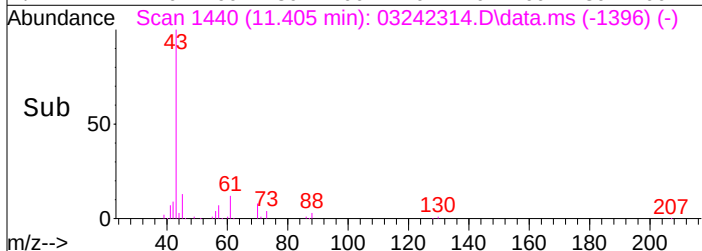
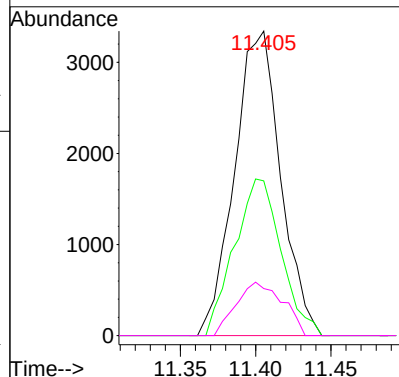
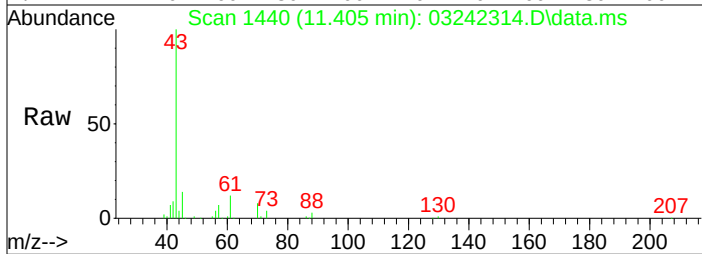
Tgt Ion:	61	Resp:	33486
Ion Ratio	Lower	Upper	
61	100		
70	68.8	52.8	92.8





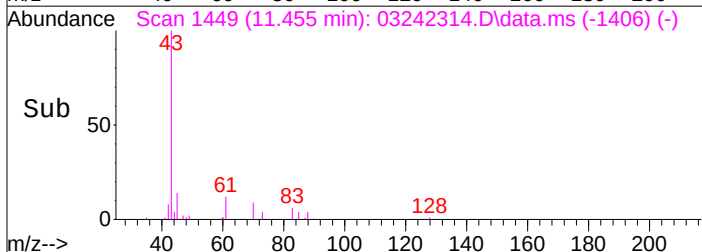
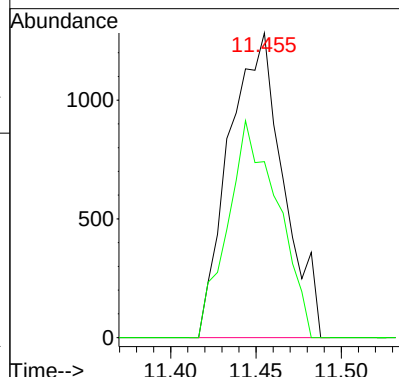
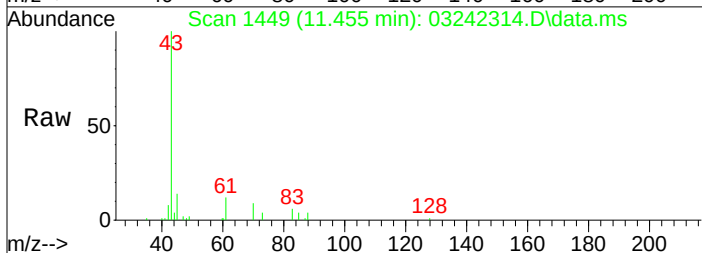
#31
n-Hexane
Concen: 0.19 ng
RT: 11.41 min Scan# 1440
Delta R.T. -0.005 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:24

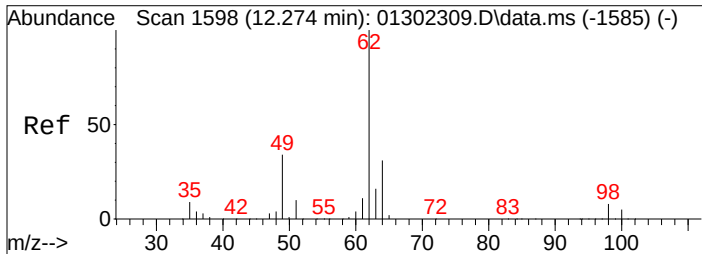
Tgt Ion:	57	Resp:	7112
Ion Ratio		Lower	Upper
57	100		
56	52.1	39.9	59.9
86	17.7	12.3	18.5



#32
Chloroform
Concen: 0.10 ng
RT: 11.45 min Scan# 1449
Delta R.T. -0.011 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:24

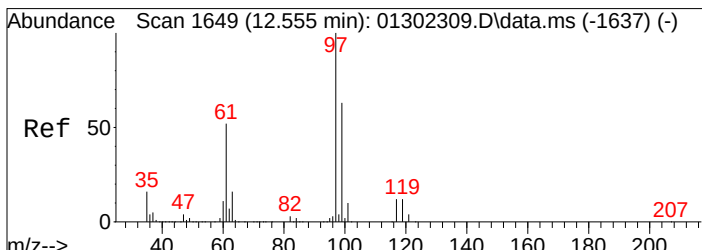
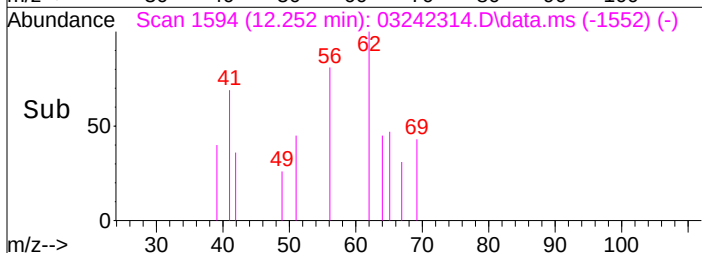
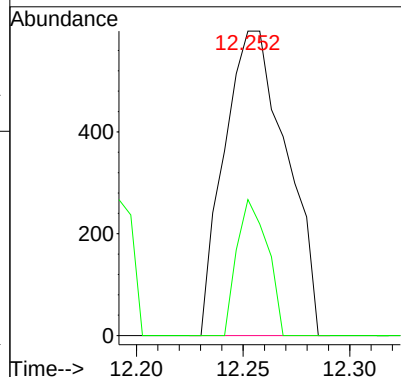
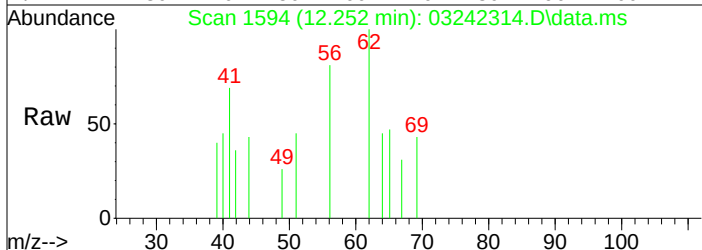
Tgt Ion:	83	Resp:	2834
Ion Ratio		Lower	Upper
83	100		
85	65.7	45.5	85.5





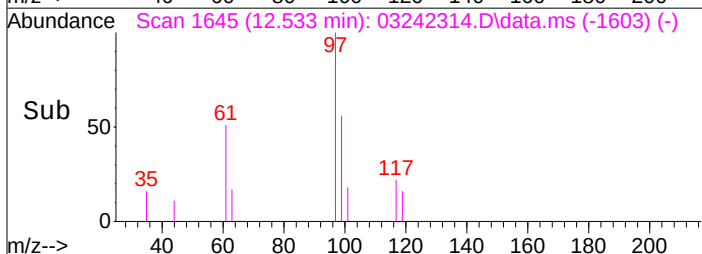
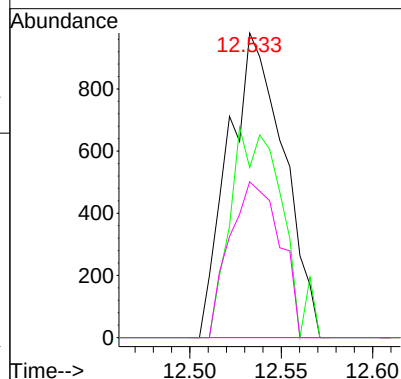
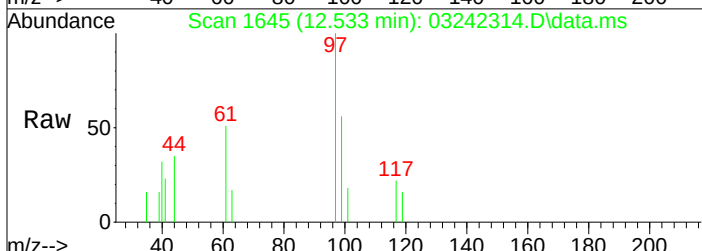
#36
 1,2-Dichloroethane
 Concen: 0.05 ng
 RT: 12.25 min Scan# 1594
 Delta R.T. -0.016 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:24

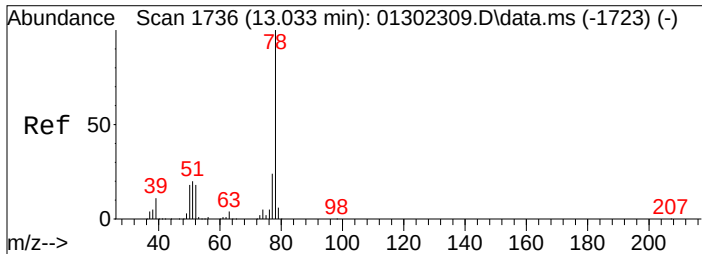
Tgt Ion:	62	Resp:	1215
Ion Ratio	Lower	Upper	
62	100		
64	22.0	12.5	52.5



#38
 1,1,1-Trichloroethane
 Concen: 0.08 ng
 RT: 12.53 min Scan# 1645
 Delta R.T. -0.016 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:24

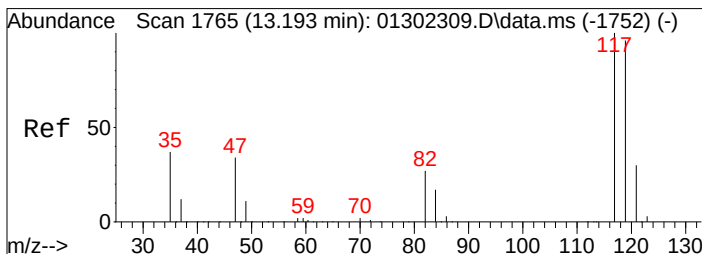
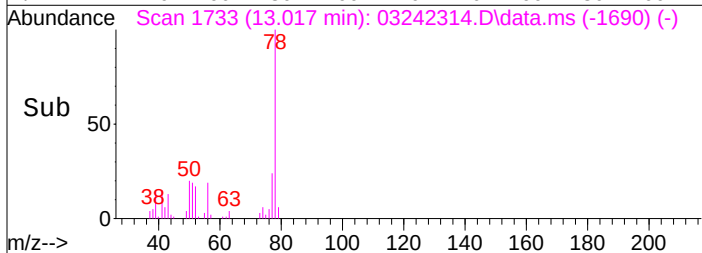
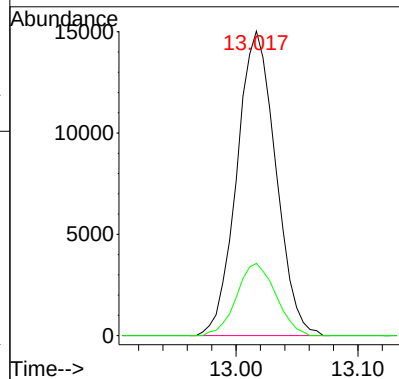
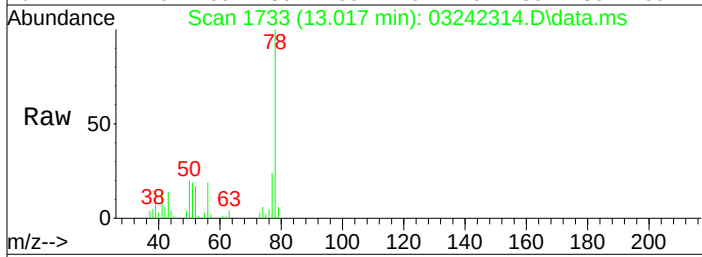
Tgt Ion:	97	Resp:	2065
Ion Ratio	Lower	Upper	
97	100		
99	64.3	44.0	84.0
61	46.5	26.8	66.8





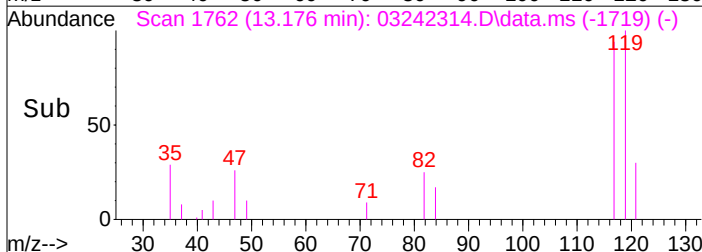
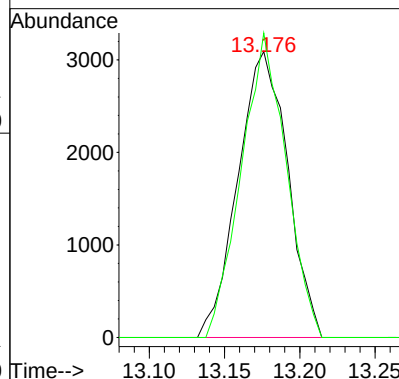
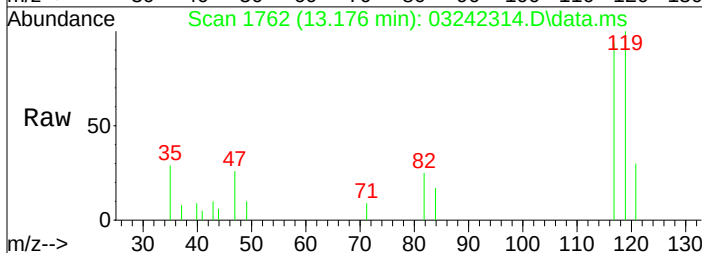
#41
Benzene
Concen: 0.49 ng
RT: 13.02 min Scan# 1733
Delta R.T. -0.011 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:24

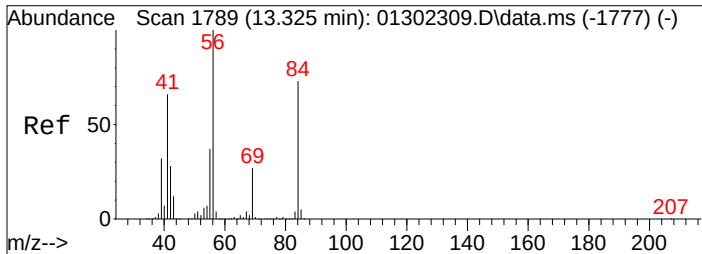
Tgt Ion	Resp	Lower	Upper
78	100		
77	23.9	3.3	43.3



#42
Carbon Tetrachloride
Concen: 0.32 ng
RT: 13.18 min Scan# 1762
Delta R.T. -0.011 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:24

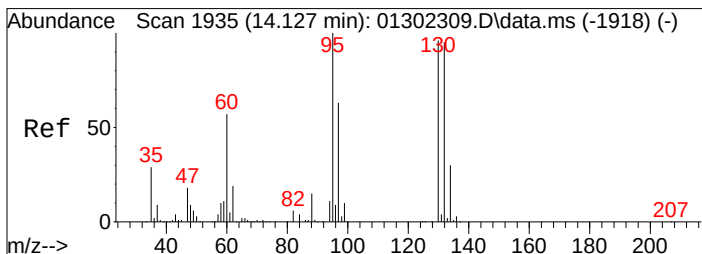
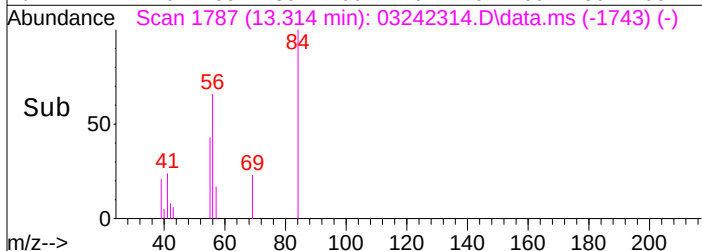
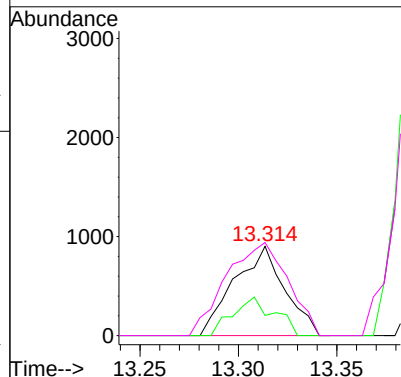
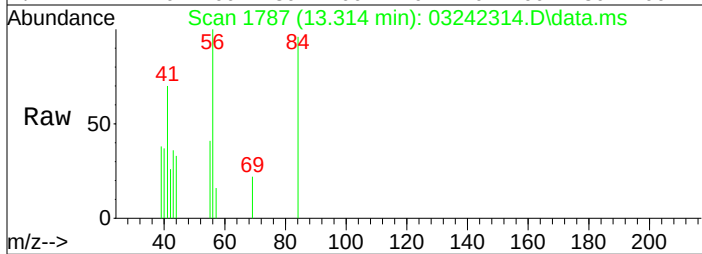
Tgt Ion	Resp	Lower	Upper
117	100		
119	95.6	76.2	116.2





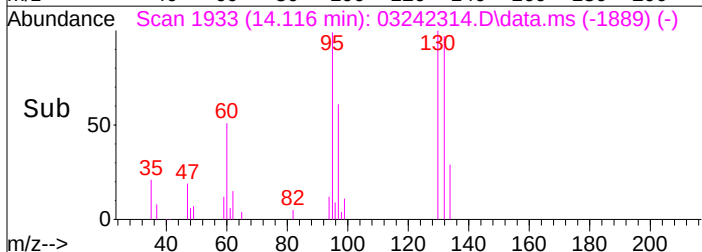
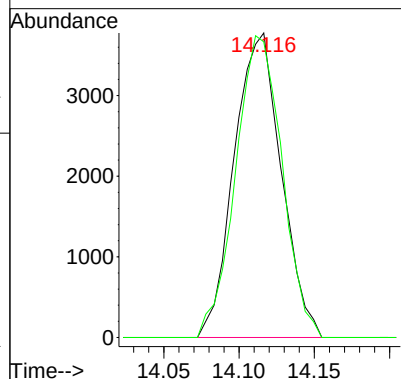
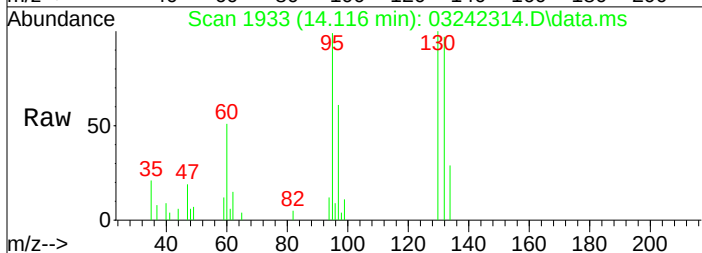
#43
Cyclohexane
Concen: 0.06 ng
RT: 13.31 min Scan# 1787
Delta R.T. -0.005 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:24

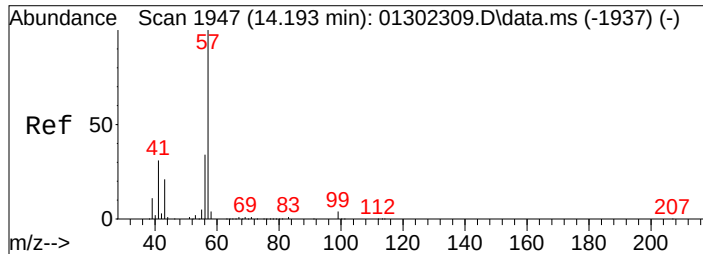
Tgt Ion:	84	Resp:	1609
Ion Ratio		Lower	Upper
84	100		
69	35.2	16.2	56.2
56	127.7	115.2	155.2



#47
Trichloroethene
Concen: 0.44 ng
RT: 14.12 min Scan# 1933
Delta R.T. -0.005 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:24

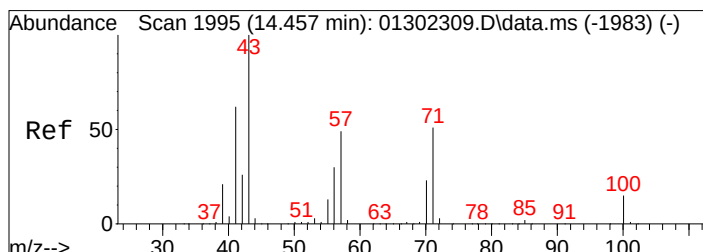
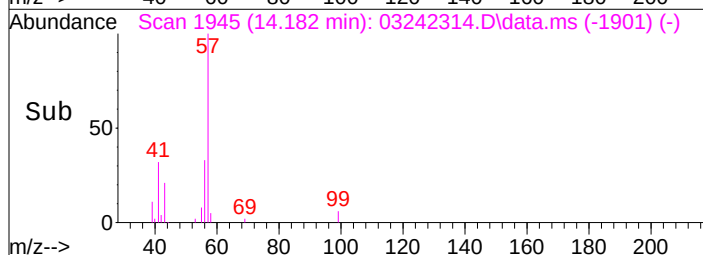
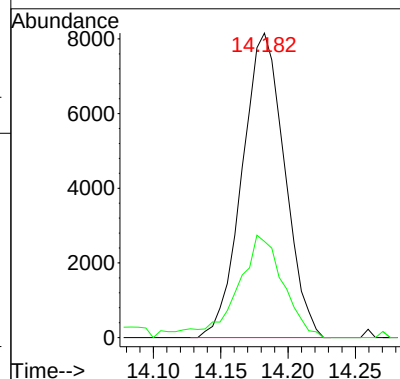
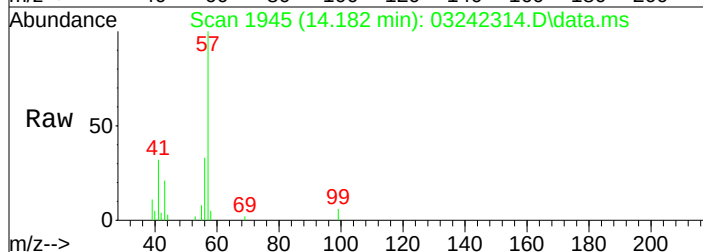
Tgt Ion:	130	Resp:	8219
Ion Ratio		Lower	Upper
130	100		
132	97.7	78.7	118.7





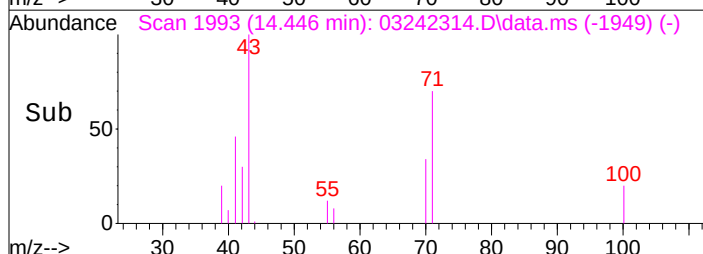
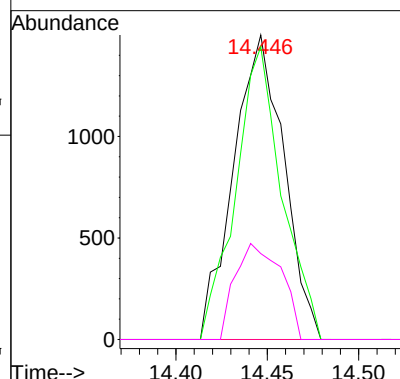
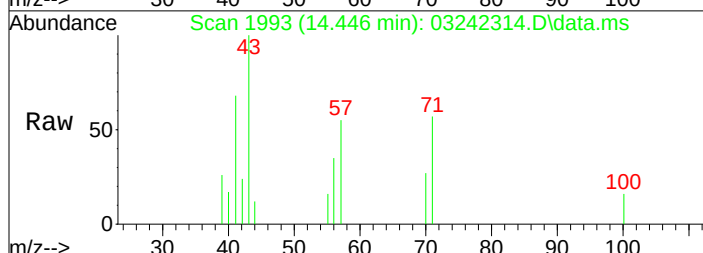
#49
 2,2,4-Trimethylpentane (Isooctane)
 Concen: 0.19 ng
 RT: 14.18 min Scan# 1945
 Delta R.T. -0.005 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:24

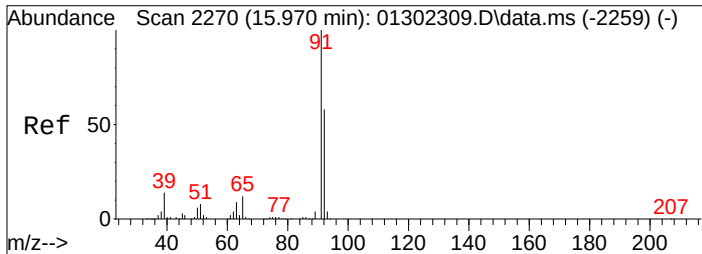
Tgt Ion: 57 Resp: 17865
 Ion Ratio Lower Upper
 57 100
 41 36.8 5.8 45.8



#51
 n-Heptane
 Concen: 0.14 ng
 RT: 14.45 min Scan# 1993
 Delta R.T. -0.005 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:24

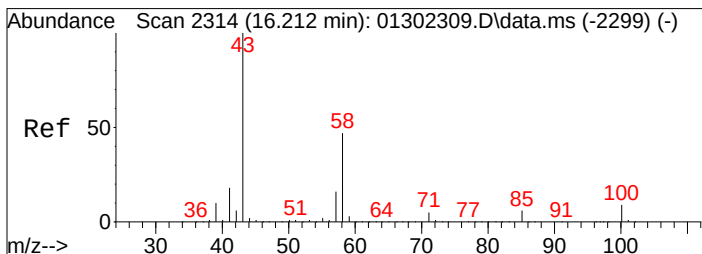
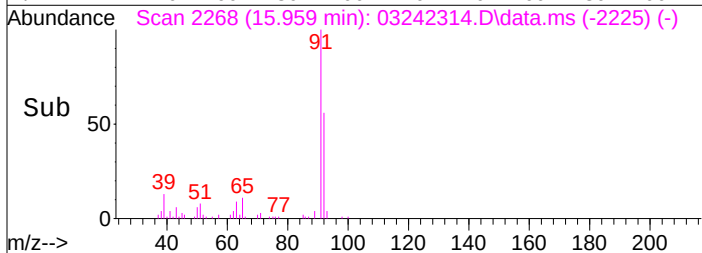
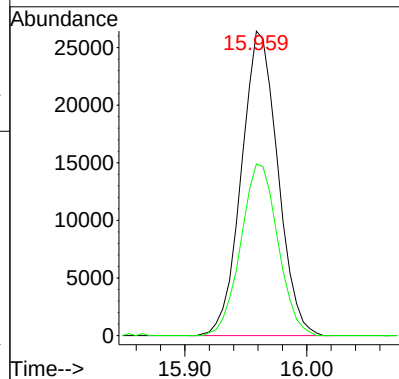
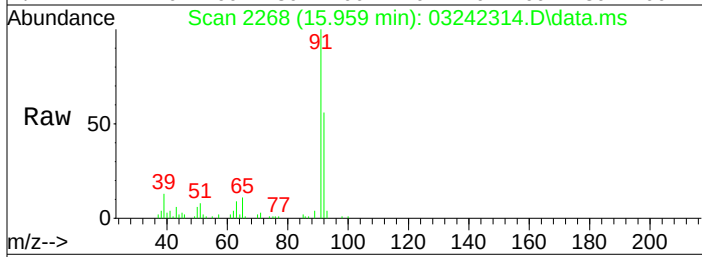
Tgt Ion: 71 Resp: 2867
 Ion Ratio Lower Upper
 71 100
 57 88.6 81.4 121.4
 100 28.9 11.8 51.8





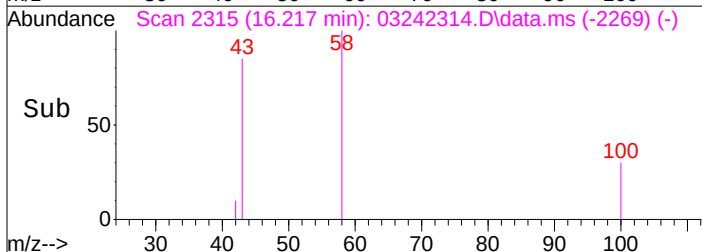
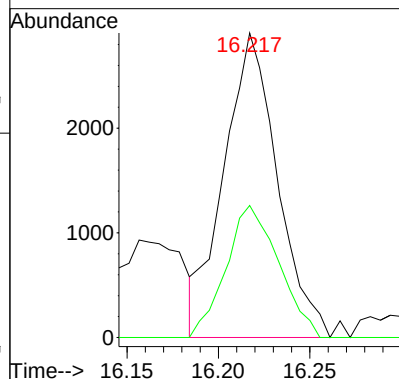
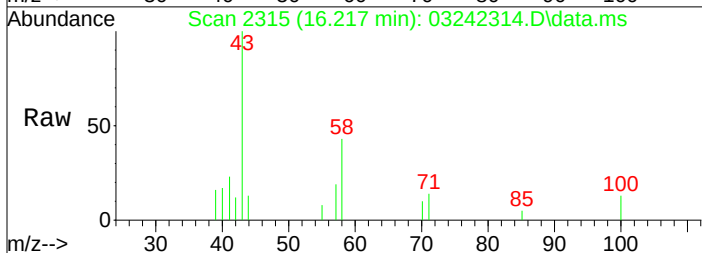
#58
Toluene
Concen: 0.67 ng
RT: 15.96 min Scan# 2268
Delta R.T. -0.011 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:24

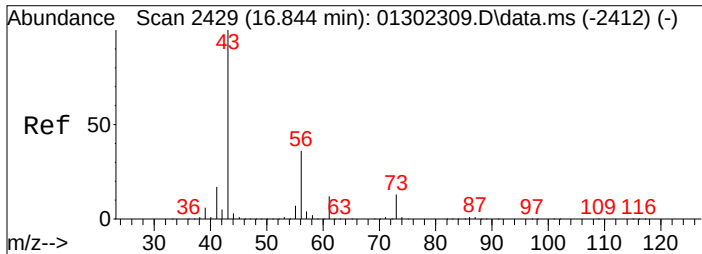
Tgt Ion: 91 Resp: 54741
Ion Ratio Lower Upper
91 100
92 57.4 39.8 79.8



#59
2-Hexanone
Concen: 0.14 ng
RT: 16.22 min Scan# 2315
Delta R.T. 0.006 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:24

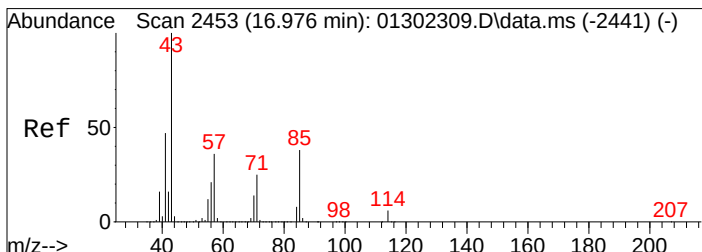
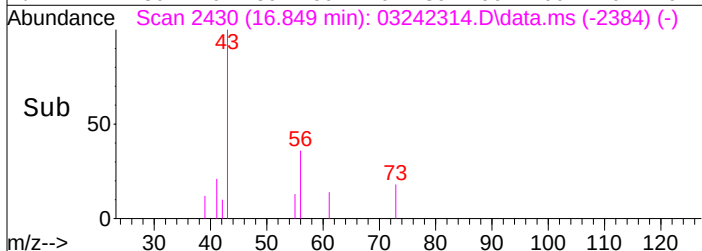
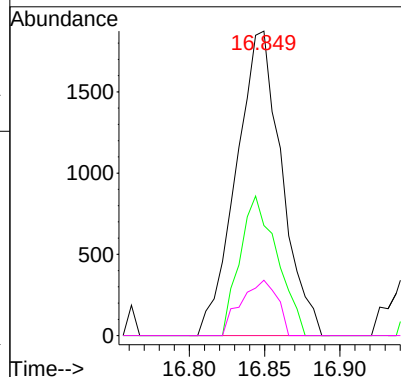
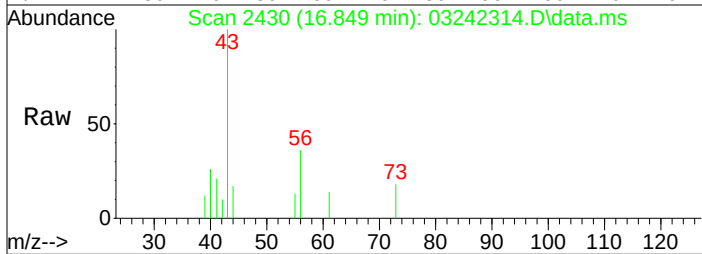
Tgt Ion: 43 Resp: 5927
Ion Ratio Lower Upper
43 100
58 42.6 32.3 72.3





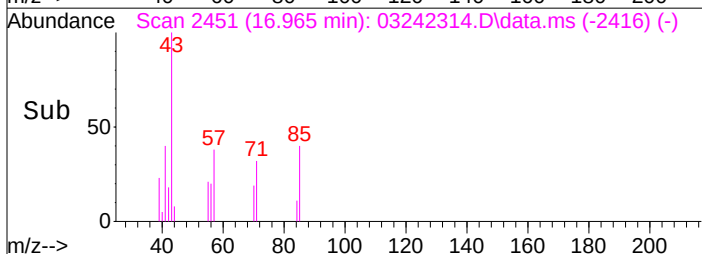
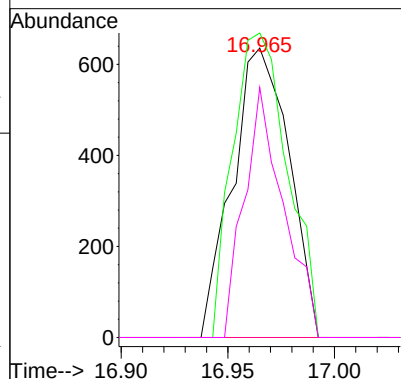
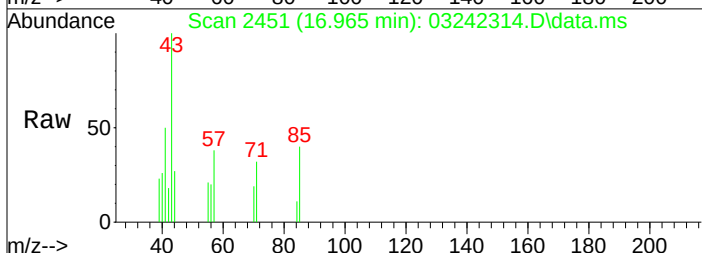
#62
 n-Butyl Acetate
 Concen: 0.08 ng
 RT: 16.85 min Scan# 2430
 Delta R.T. 0.005 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:24

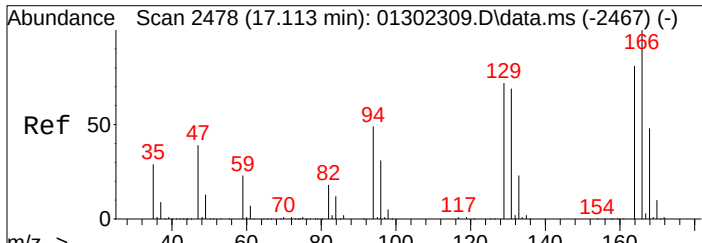
Tgt Ion:	43	Resp:	3935
Ion Ratio		Lower	Upper
43	100		
56	37.6	21.0	61.0
73	14.5	0.0	34.3



#63
 n-Octane
 Concen: 0.06 ng
 RT: 16.96 min Scan# 2451
 Delta R.T. -0.005 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:24

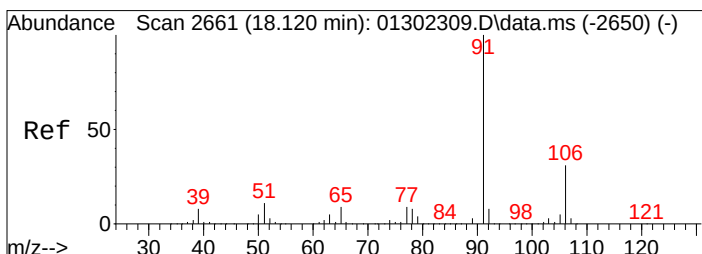
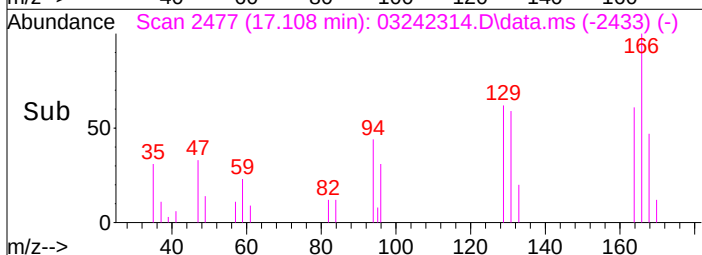
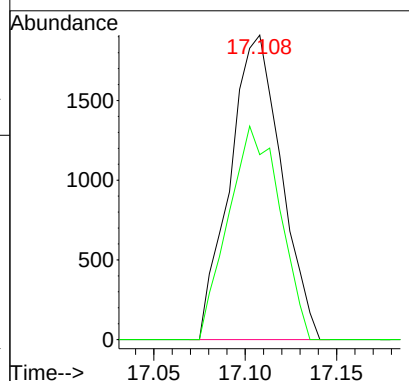
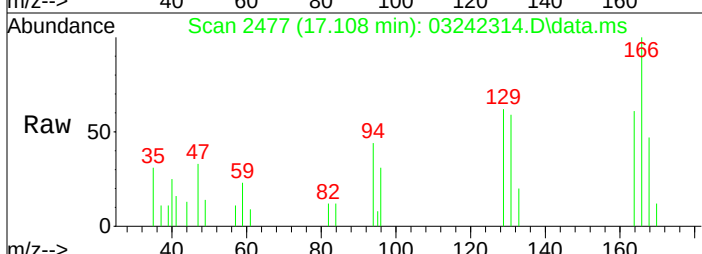
Tgt Ion:	57	Resp:	1177
Ion Ratio		Lower	Upper
57	100		
85	102.0	81.4	122.2
71	59.7	51.7	77.5





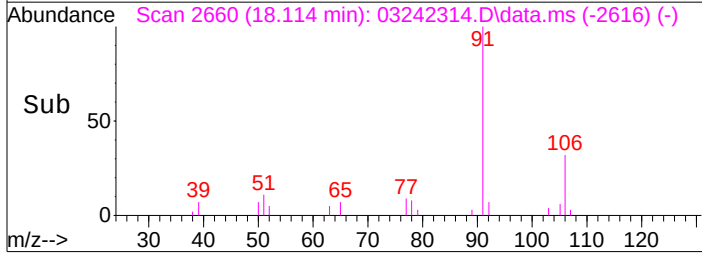
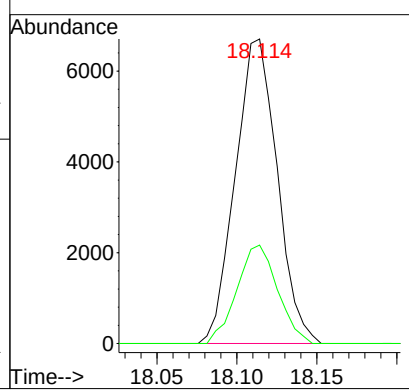
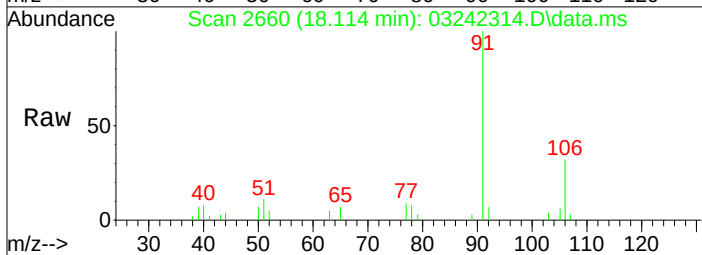
#64
 Tetrachloroethene
 Concen: 0.18 ng
 RT: 17.11 min Scan# 2477
 Delta R.T. -0.005 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:24

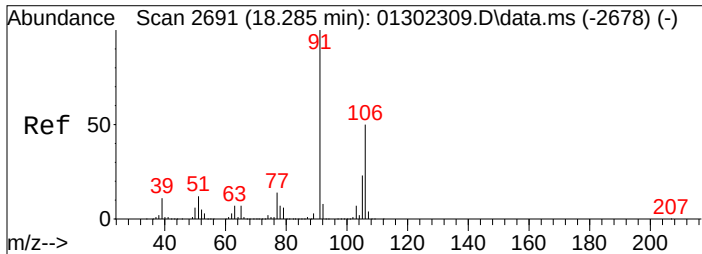
Tgt Ion:	166	Resp:	3726
Ion Ratio	Lower	Upper	
166	100		
164	70.3	58.7	98.7



#66
 Ethylbenzene
 Concen: 0.13 ng
 RT: 18.11 min Scan# 2660
 Delta R.T. -0.005 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:24

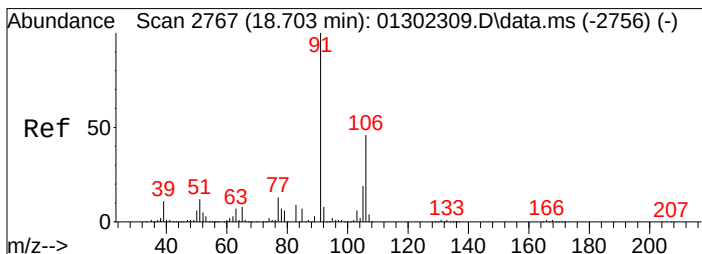
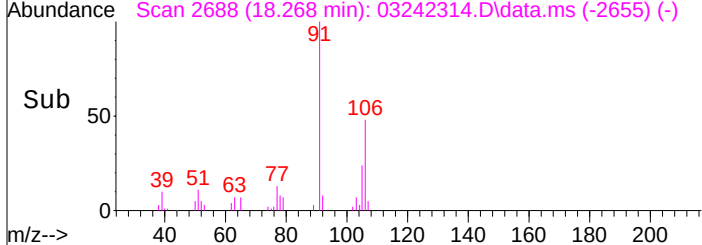
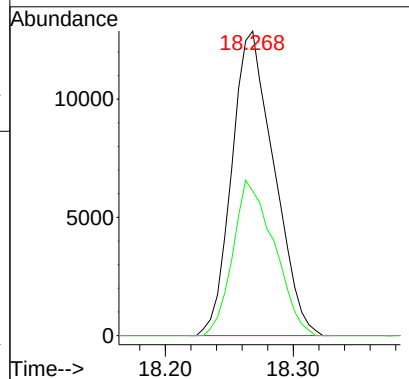
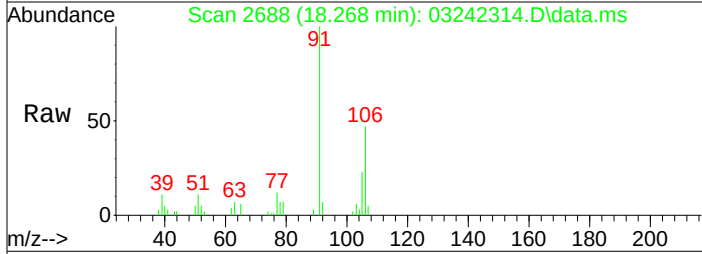
Tgt Ion:	91	Resp:	12241
Ion Ratio	Lower	Upper	
91	100		
106	31.4	11.5	51.5





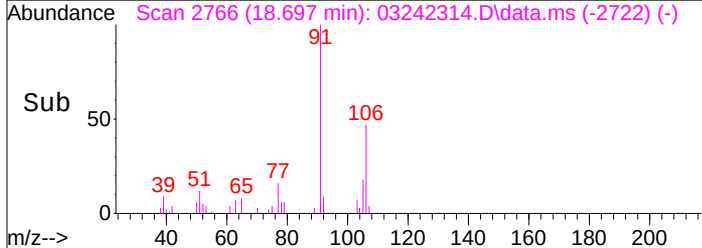
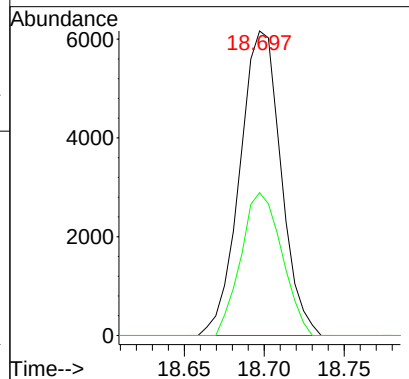
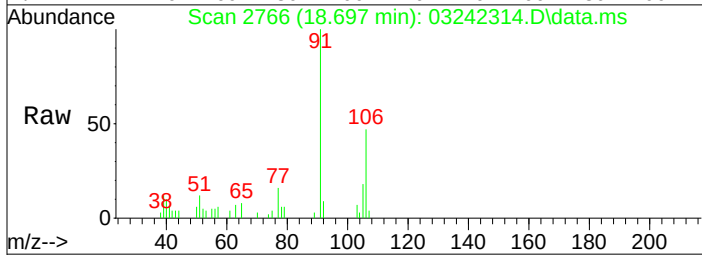
#67
m- & p-Xylenes
Concen: 0.40 ng
RT: 18.27 min Scan# 2688
Delta R.T. -0.016 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:24

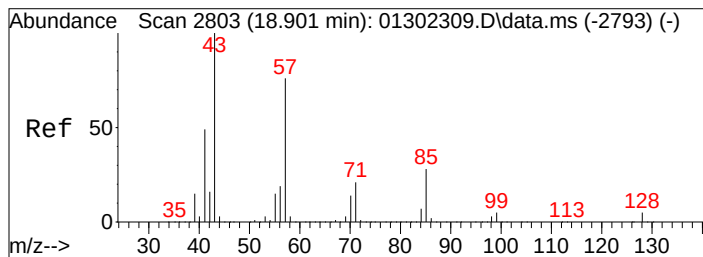
Tgt Ion:	91	Resp:	29540
Ion Ratio	Lower	Upper	
91	100		
106	49.9	29.2	69.2



#70
o-Xylene
Concen: 0.15 ng
RT: 18.70 min Scan# 2766
Delta R.T. -0.005 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:24

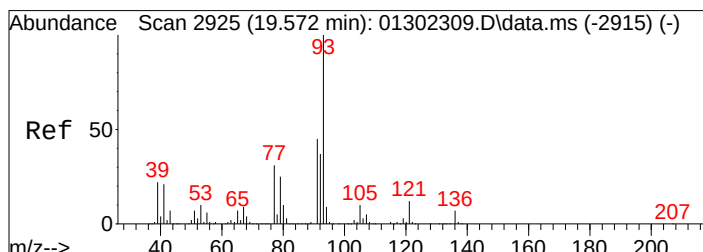
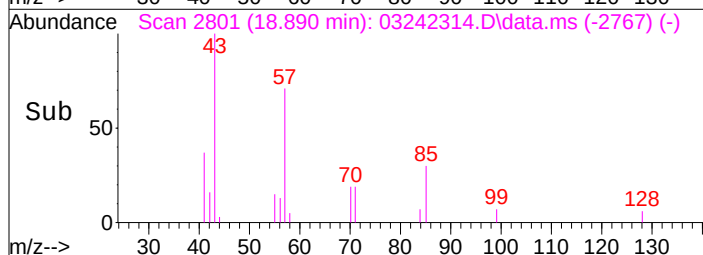
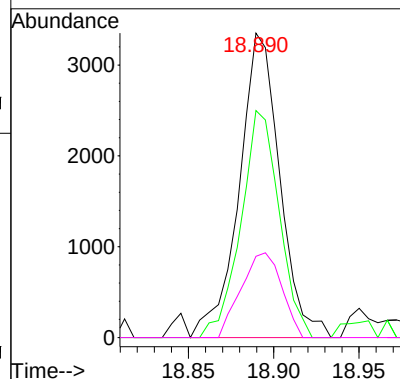
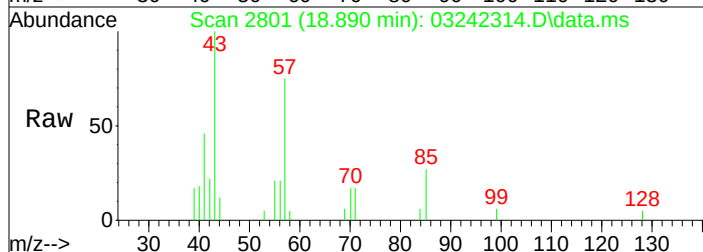
Tgt Ion:	91	Resp:	11081
Ion Ratio	Lower	Upper	
91	100		
106	46.5	27.3	67.3





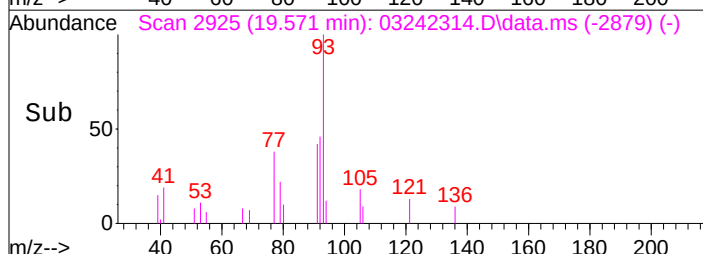
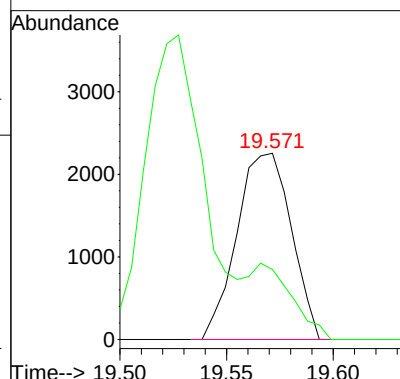
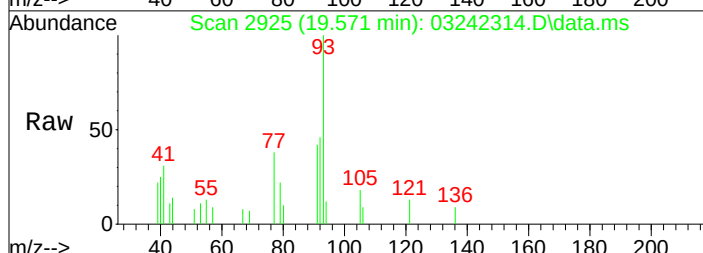
#71
n-Nonane
Concen: 0.11 ng
RT: 18.89 min Scan# 2801
Delta R.T. -0.011 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:24

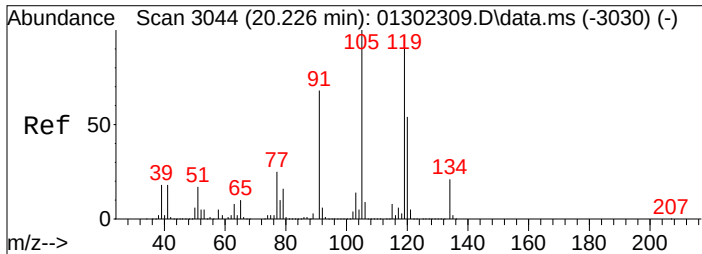
Tgt Ion:	43	Resp:	5569
Ion Ratio		Lower	Upper
43	100		
57	70.0	64.6	104.6
85	27.7	9.6	49.6



#75
alpha-Pinene
Concen: 0.17 ng
RT: 19.57 min Scan# 2925
Delta R.T. 0.000 min
Lab File: 03242314.D
Acq: 24 Mar 2023 13:24

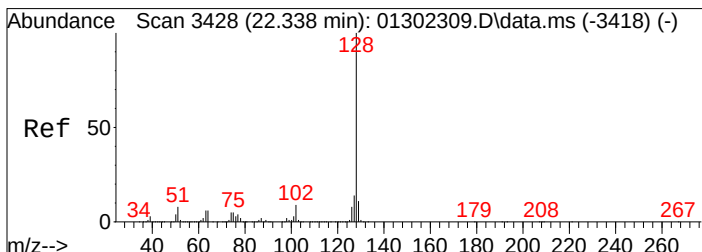
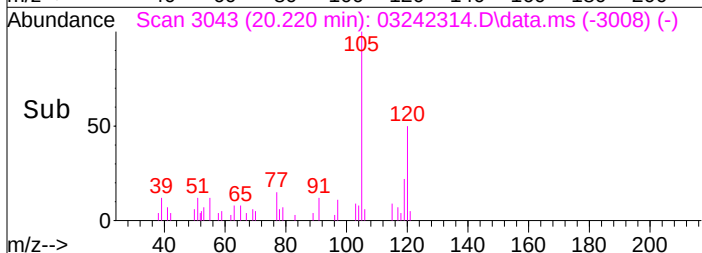
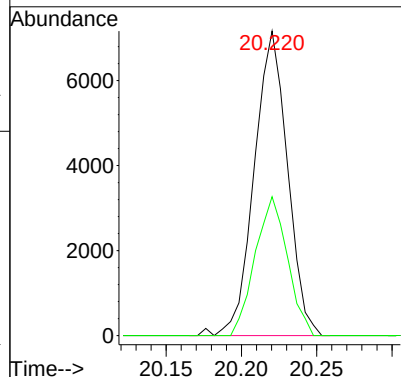
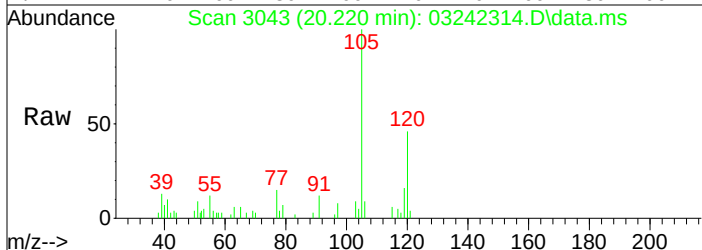
Tgt Ion:	93	Resp:	4005
Ion Ratio		Lower	Upper
93	100		
77	210.7	11.7	51.7#





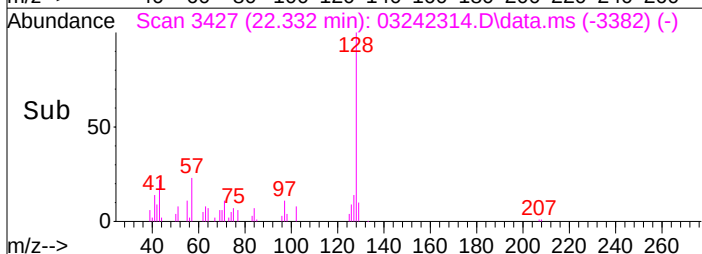
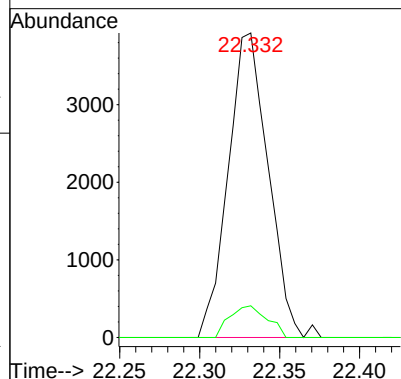
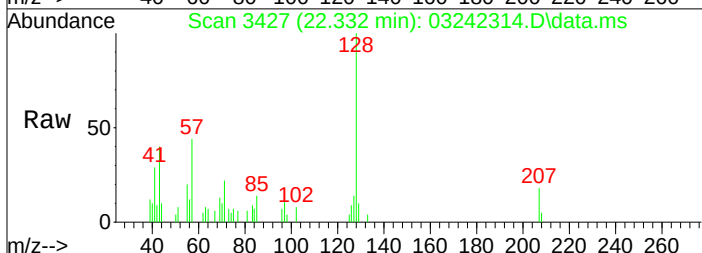
#82
 1,2,4-Trimethylbenzene
 Concen: 0.15 ng
 RT: 20.22 min Scan# 3043
 Delta R.T. -0.005 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:24

Tgt Ion:	105	Resp:	10994
Ion Ratio		Lower	Upper
105	100		
120	44.4	37.2	77.2



#95
 Naphthalene
 Concen: 0.08 ng
 RT: 22.33 min Scan# 3427
 Delta R.T. -0.005 min
 Lab File: 03242314.D
 Acq: 24 Mar 2023 13:24

Tgt Ion:	128	Resp:	6842
Ion Ratio		Lower	Upper
128	100		
129	9.7	0.0	31.0



Data File : I:\MS16\DATA\2023_03\24\03242314.D
 Acq On : 24 Mar 2023 13:24
 Sample : P2301250-040 (1000mL)
 Misc : S35-01312301

Vial: 8
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 26 20:29:22 2023

IDA 3/26/23

Quant Method : I:\MS16\METHODS\C16122022.M

Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD

QLast Update : Wed Dec 21 05:02:49 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.28	130	210634	12.500	ng	-0.02
16) 1,4-Difluorobenzene (C_2)	13.41	114	967497	12.500	ng	-0.01
19) Chlorobenzene-d5 (C_3)	17.72	54	214375	12.500	ng	0.00

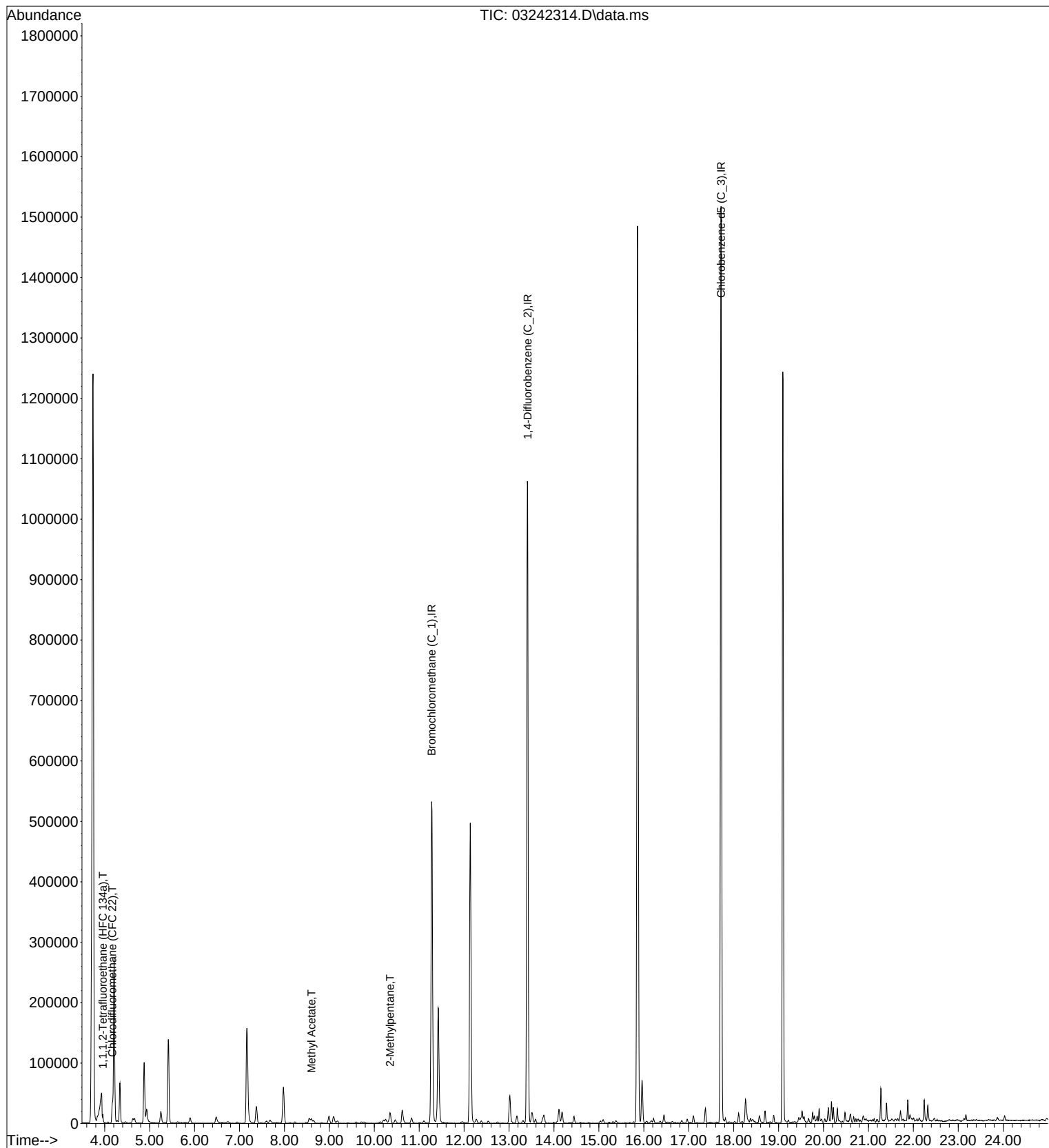
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.87	85	630	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.96	83	5891	0.353	ng	95
4) 1,1-Difluoroethane	4.08	65	420	N.D.		
5) Chlorodifluoromethane ...	4.17	67	2548	0.489	ng	85
6) 1-Chloro-1,1-Difluoroe...	4.63	65	2492	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	8.60	43	12601	0.241	ng	# 95
12) 2-Methylpentane	10.35	71	4061	0.196	ng	# 41
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	13.17	84	1340	N.D.		
17) 2,3-Dimethylpentane	13.59	56	2934	N.D.		
18) Dibromomethane	13.83	174	143	N.D.		
20) Methyl Cyclohexane	15.10	55	2523	N.D.		
21) 1,3-Dichloropropane	15.96	76	50	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	0.00	91	0	N.D.		
24) 1,2,3-Trichloropropane	18.70	75	342	N.D.		
25) Bromobenzene	19.22	77	193	N.D.		
26) 2-Chlorotoluene	19.66	91	3576	N.D.		
27) 4-Chlorotoluene	19.75	91	1212	N.D.		
28) Indane	20.77	117	964	N.D.		
29) Indene	20.85	115	109	N.D.		
30) 1,2,4,5-Tetramethylben...	21.61	119	1180	N.D.		
31) 1,2,3,4-Tetramethylben...	21.65	119	1750	N.D.		
32) 1,2,3,5-Tetramethylben...	21.99	119	1041	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\24\03242314.D
Acq On : 24 Mar 2023 13:24
Sample : P2301250-040 (1000mL)
Misc : S35-01312301

Vial: 8
Operator: WA
Inst : GCMS-16

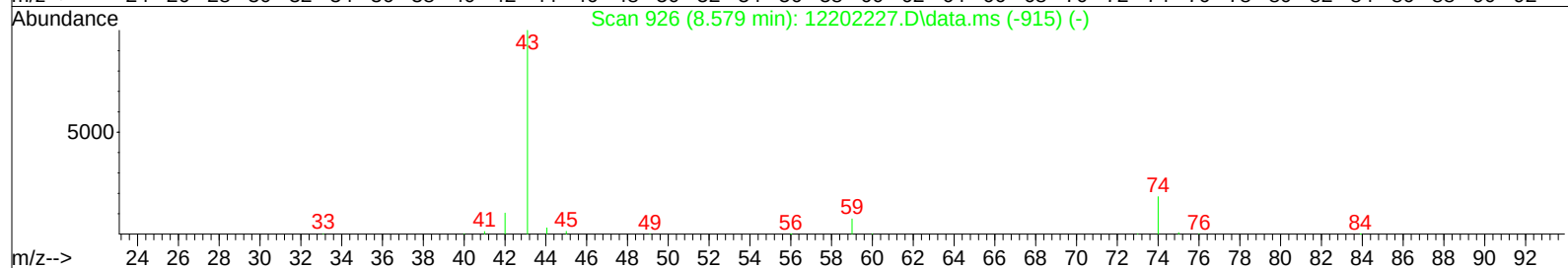
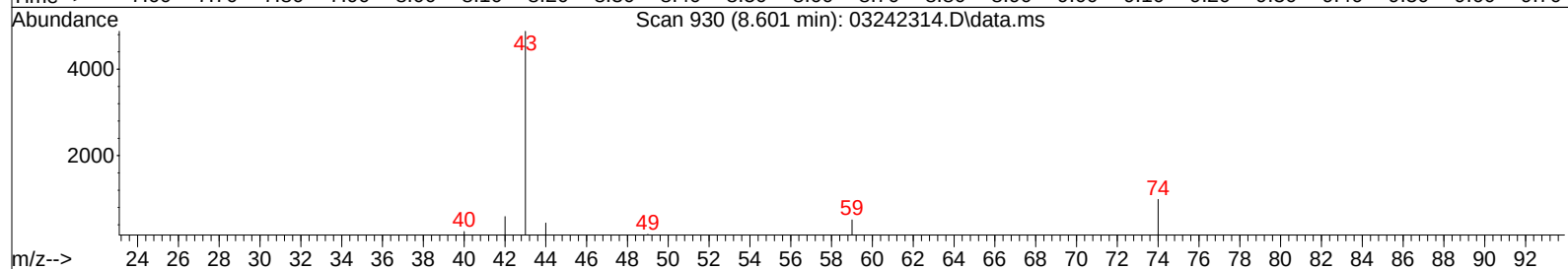
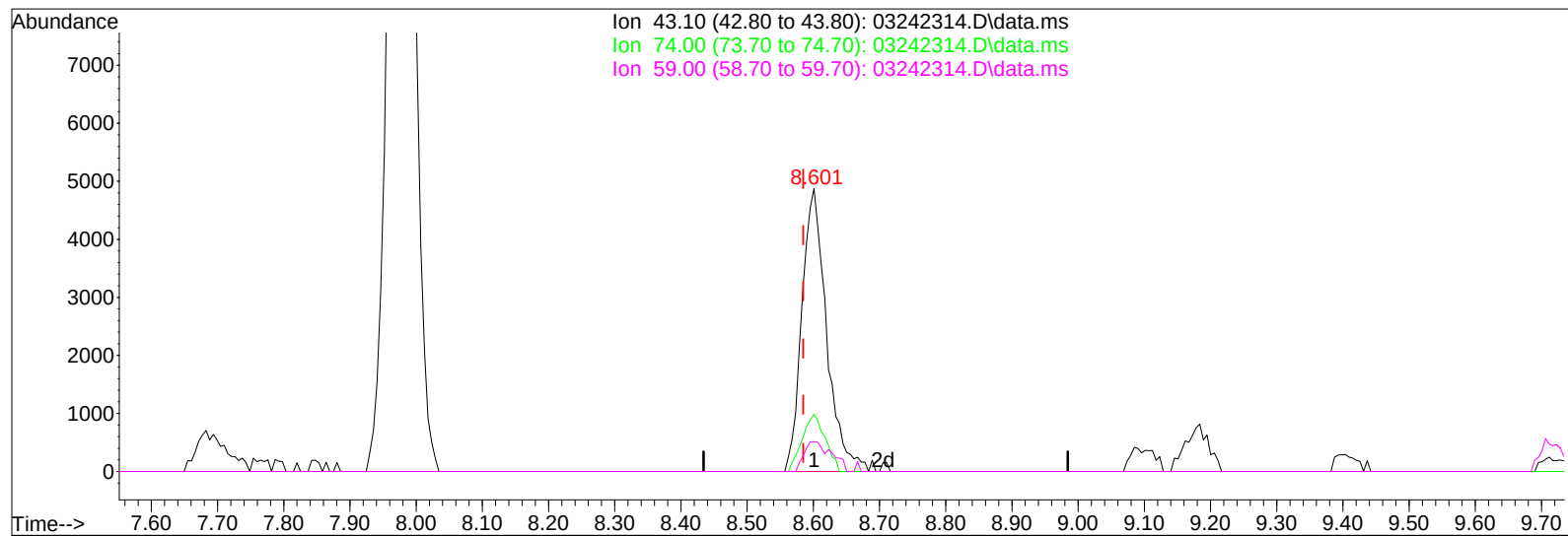
Quant Time: Mar 26 20:29:22 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



Data File : I:\MS16\DATA\2023_03\24\03242314.D
Acq On : 24 Mar 2023 13:24
Sample : P2301250-040 (1000mL)
Misc : S35-01312301

Vial: 8
Operator: WA
Inst : GCMS-16

Quant Time: Mar 26 20:27:30 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



TIC: 03242314.D\data.ms

(11) Methyl Acetate (T)

8.601min (+0.016) 0.24ng

response 12601

Ion	Exp%	Act%
43.10	100	100
74.00	18.10	18.75
59.00	7.20	11.59#
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG10

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-041

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02385

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.85 Final Pressure (psig): 4.04

Container Dilution Factor: 1.46

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.8	0.77	0.13	0.57	0.16	0.026	
74-87-3	Chloromethane	0.31	0.31	0.13	0.15	0.15	0.061	
75-01-4	Vinyl Chloride	ND	0.16	0.083	ND	0.063	0.033	
74-83-9	Bromomethane	ND	0.31	0.11	ND	0.079	0.028	
75-00-3	Chloroethane	ND	0.31	0.096	ND	0.12	0.037	
67-64-1	Acetone	6.0	7.7	1.8	2.5	3.2	0.74	J
75-69-4	Trichlorofluoromethane	1.4	0.76	0.12	0.25	0.14	0.021	
75-35-4	1,1-Dichloroethene	ND	0.16	0.11	ND	0.041	0.027	
75-09-2	Methylene Chloride	0.66	0.77	0.22	0.19	0.22	0.063	J
76-13-1	Trichlorotrifluoroethane	0.49	0.79	0.11	0.065	0.10	0.014	J
75-15-0	Carbon Disulfide	ND	1.6	0.23	ND	0.50	0.075	
156-60-5	trans-1,2-Dichloroethene	ND	0.16	0.11	ND	0.041	0.027	
75-34-3	1,1-Dichloroethane	ND	0.16	0.11	ND	0.040	0.028	
1634-04-4	Methyl tert-Butyl Ether	ND	0.79	0.092	ND	0.22	0.026	
78-93-3	2-Butanone (MEK)	1.0	1.5	0.16	0.35	0.52	0.054	J
156-59-2	cis-1,2-Dichloroethene	0.17	0.16	0.11	0.044	0.041	0.028	
67-66-3	Chloroform	0.17	0.16	0.10	0.034	0.033	0.021	
107-06-2	1,2-Dichloroethane	ND	0.16	0.086	ND	0.040	0.021	
71-55-6	1,1,1-Trichloroethane	0.14	0.16	0.096	0.026	0.029	0.018	J
71-43-2	Benzene	0.74	0.16	0.11	0.23	0.050	0.035	
56-23-5	Carbon Tetrachloride	0.46	0.16	0.11	0.073	0.026	0.017	
110-82-7	Cyclohexane	ND	1.5	0.22	ND	0.45	0.064	
78-87-5	1,2-Dichloropropane	ND	0.16	0.096	ND	0.035	0.021	
75-27-4	Bromodichloromethane	ND	0.16	0.11	ND	0.024	0.017	
79-01-6	Trichloroethene	0.84	0.16	0.11	0.16	0.030	0.020	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG10

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-041

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02385

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.85 Final Pressure (psig): 4.04

Container Dilution Factor: 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.79	0.12	ND	0.17	0.027	
108-10-1	4-Methyl-2-pentanone	0.13	1.6	0.11	0.032	0.39	0.026	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.74	0.16	ND	0.16	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.16	0.079	ND	0.029	0.014	
108-88-3	Toluene	1.0	0.77	0.095	0.28	0.21	0.025	
591-78-6	2-Hexanone	0.21	1.6	0.096	0.051	0.39	0.024	J
124-48-1	Dibromochloromethane	ND	0.16	0.10	ND	0.019	0.012	
106-93-4	1,2-Dibromoethane	ND	0.16	0.091	ND	0.021	0.012	
127-18-4	Tetrachloroethene	0.26	0.16	0.10	0.038	0.024	0.015	
108-90-7	Chlorobenzene	ND	0.77	0.10	ND	0.17	0.023	
100-41-4	Ethylbenzene	0.20	0.77	0.11	0.047	0.18	0.025	J
179601-23-1	m,p-Xylenes	0.65	1.6	0.20	0.15	0.37	0.047	J
75-25-2	Bromoform	ND	0.79	0.16	ND	0.076	0.016	
100-42-5	Styrene	ND	0.77	0.13	ND	0.18	0.030	
95-47-6	o-Xylene	0.27	0.77	0.11	0.062	0.18	0.026	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	0.11	ND	0.023	0.016	
98-82-8	Cumene	ND	0.79	0.11	ND	0.16	0.023	
541-73-1	1,3-Dichlorobenzene	ND	0.77	0.12	ND	0.13	0.019	
106-46-7	1,4-Dichlorobenzene	ND	0.77	0.12	ND	0.13	0.020	
95-50-1	1,2-Dichlorobenzene	ND	0.79	0.12	ND	0.13	0.019	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.6	0.15	ND	0.17	0.015	
120-82-1	1,2,4-Trichlorobenzene	ND	1.6	0.19	ND	0.22	0.026	
79-20-9	Methyl Acetate	0.49	0.73	0.35	0.16	0.24	0.12	J, X
108-87-2	Methylcyclohexane	ND	0.73	0.38	ND	0.18	0.095	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS16\DATA\2023_03\24\03242315.D
 Acq On : 24 Mar 2023 13:59
 Sample : P2301250-041 (1000mL)
 Misc : S35-01312301

Vial: 3
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 24 20:57:20 2023

3/26/23

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	211718	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	974392	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.72	54	217472	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	379598	13.482	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	107.84%
57) Toluene-d8 (SS2)	15.86	98	1123724	11.803	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.40%
73) Bromofluorobenzene (SS3)	19.10	174	343351	11.563	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.48%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	4.34	85	60825	1.922	ng	99
4) Chloromethane	4.63	50	6287	0.212	ng	93
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	1454	0.082	ng	80
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.33	54	650	N.D.		
8) Bromomethane	5.77	94	353	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.47	45	31478	1.545	ng	97
11) Acetonitrile	6.73	41	3542	0.069	ng	80
12) Acrolein	6.93	56	1951	0.135	ng	99
13) Acetone	7.15	58	63727	4.090	ng	# 59
14) Trichlorofluoromethane	7.37	101	28377	0.972	ng	99
15) 2-Propanol (Isopropanol)	7.68	45	10533	0.194	ng	78
16) Acrylonitrile	7.90	53	56	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	8.56	84	7814	0.454	ng	92
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	9.00	151	4935	0.339	ng	86
22) Carbon Disulfide	8.84	76	1802	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	10.09	63	850	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	10.62	72	7874	0.697	ng	99
28) cis-1,2-Dichloroethene	11.11	61	3099	0.119	ng	96
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	11.42	61	31949	4.324	ng	96
31) n-Hexane	11.40	57	8764	0.237	ng	96
32) Chloroform	11.46	83	3214	0.114	ng	96
34) Tetrahydrofuran (THF)	11.93	72	170	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	12.26	62	1268	0.055	ng	86
38) 1,1,1-Trichloroethane	12.53	97	2577	0.098	ng	96
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.02	78	34886	0.508	ng	99
42) Carbon Tetrachloride	13.18	117	6983	0.313	ng	97
43) Cyclohexane	13.31	84	2268	0.078	ng	95
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	13.86	63	106	N.D.		
46) Bromodichloromethane	14.05	83	105	N.D.		
47) Trichloroethene	14.11	130	10776	0.578	ng	97
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	14.18	57	25453	0.275	ng	80
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS16\DATA\2023_03\24\03242315.D
 Acq On : 24 Mar 2023 13:59
 Sample : P2301250-041 (1000mL)
 Misc : S35-01312301

Vial: 3
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 24 20:57:20 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

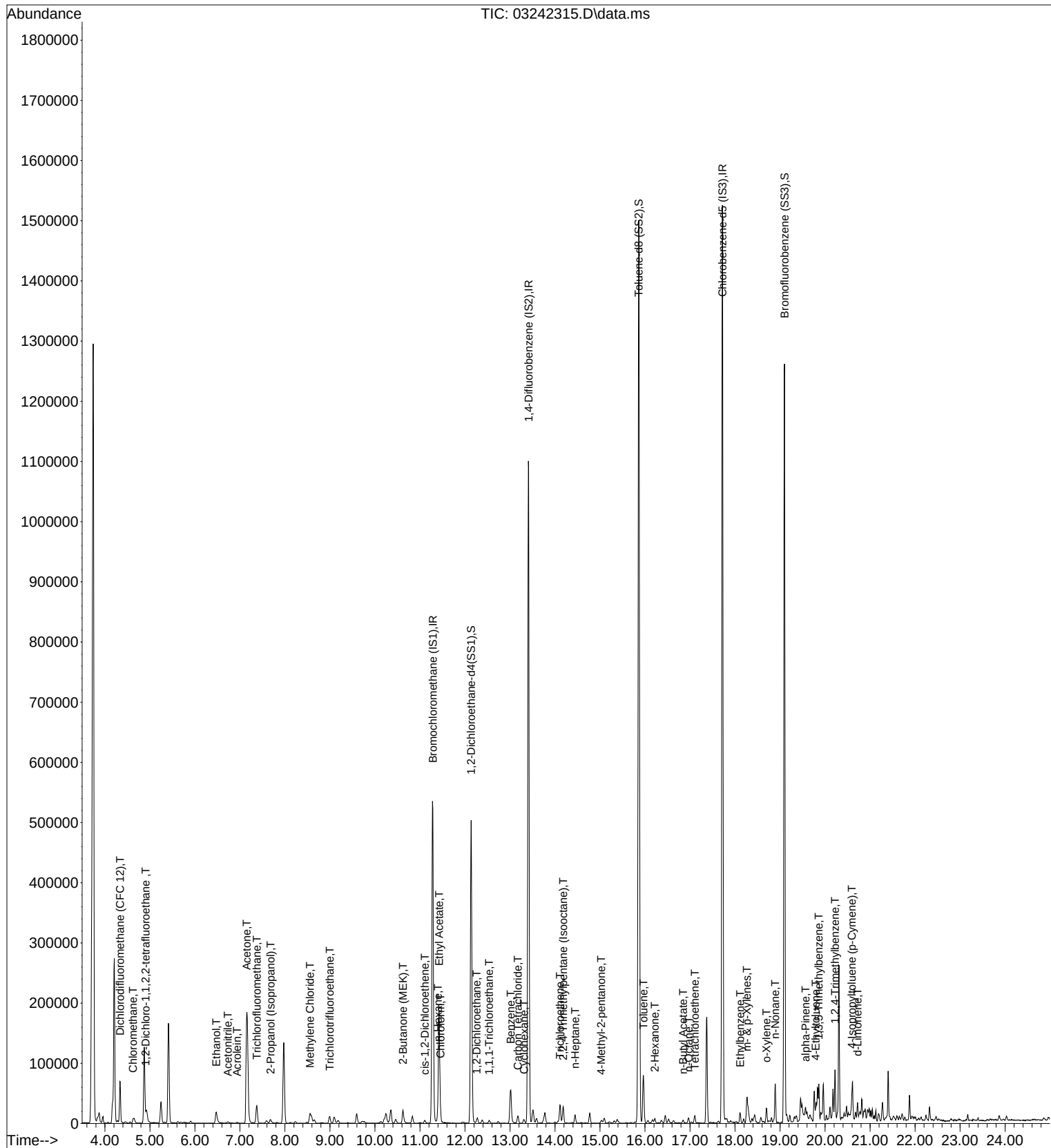
DataAcq Meth:T015B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.45	71	3503	0.174	ng	95
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	15.02	58	1414	0.089	ng #	66
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.96	91	59632	0.715	ng	99
59) 2-Hexanone	16.22	43	6330	0.144	ng	80
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.84	43	4166	0.083	ng	97
63) n-Octane	16.97	57	1713	0.080	ng	97
64) Tetrachloroethene	17.11	166	3759	0.177	ng	96
65) Chlorobenzene	17.79	112	511	N.D.		
66) Ethylbenzene	18.11	91	13208	0.140	ng	100
67) m- & p-Xylenes	18.26	91	32946	0.442	ng	97
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.60	104	908	N.D.		
70) o-Xylene	18.70	91	13573	0.185	ng	97
71) n-Nonane	18.89	43	24357	0.466	ng	94
72) 1,1,2,2-Tetrachloroethane	18.63	83	106	N.D.		
74) Cumene	19.22	105	2188	N.D.		
75) alpha-Pinene	19.57	93	7312	0.308	ng	92
76) n-Propylbenzene	19.67	91	5314	N.D.		
77) 3-Ethyltoluene	20.22	105	28104	No Calib	#	
78) 4-Ethyltoluene	19.79	105	5269	0.060	ng #	44
79) 1,3,5-Trimethylbenzene	19.86	105	9371	0.119	ng	93
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.22	105	28104	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.22	105	28104	0.374	ng	86
83) n-Decane	20.22	58	712	No Calib	#	
84) Benzyl Chloride	20.42	91	1128	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
86) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
87) sec-Butylbenzene	20.46	105	2004	N.D.		
88) 4-Isopropyltoluene (p-...	20.59	119	6839	0.062	ng	83
89) 1,2,3-Trimethylbenzene	20.22	105	28104	No Calib	#	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	20.72	68	6507	0.304	ng	94
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	21.28	58	270	No Calib	#	
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	22.33	128	2621	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	18.19	55	1580	No Calib	#	
99) tert-Butylbenzene	20.18	119	929	N.D.		
100) n-Butylbenzene	20.96	91	3291	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Vial: 3
Operator: WA
Inst : GCMS-16

Quant Time: Mar 24 20:57:20 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:TO15B.M



Data File : I:\MS16\DATA\2023_03\24\03242315.D
 Acq On : 24 Mar 2023 13:59
 Sample : P2301250-041 (1000mL)
 Misc : S35-01312301

Vial: 3
 Operator: WA
 Inst : GCMS-16

3/24/23

Quant Time: Mar 24 20:57:20 2023
 Quant Method : I:\MS16\METHODS\R16122022.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Wed Dec 21 03:06:38 2022
 Response via : Initial Calibration
 DataAcq Meth:T015B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	211718	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	974392	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.72	54	217472	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	379598	13.482	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	107.84%
57) Toluene-d8 (SS2)	15.86	98	1123724	11.803	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.40%
73) Bromofluorobenzene (SS3)	19.10	174	343351	11.563	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.48%

Target Compounds

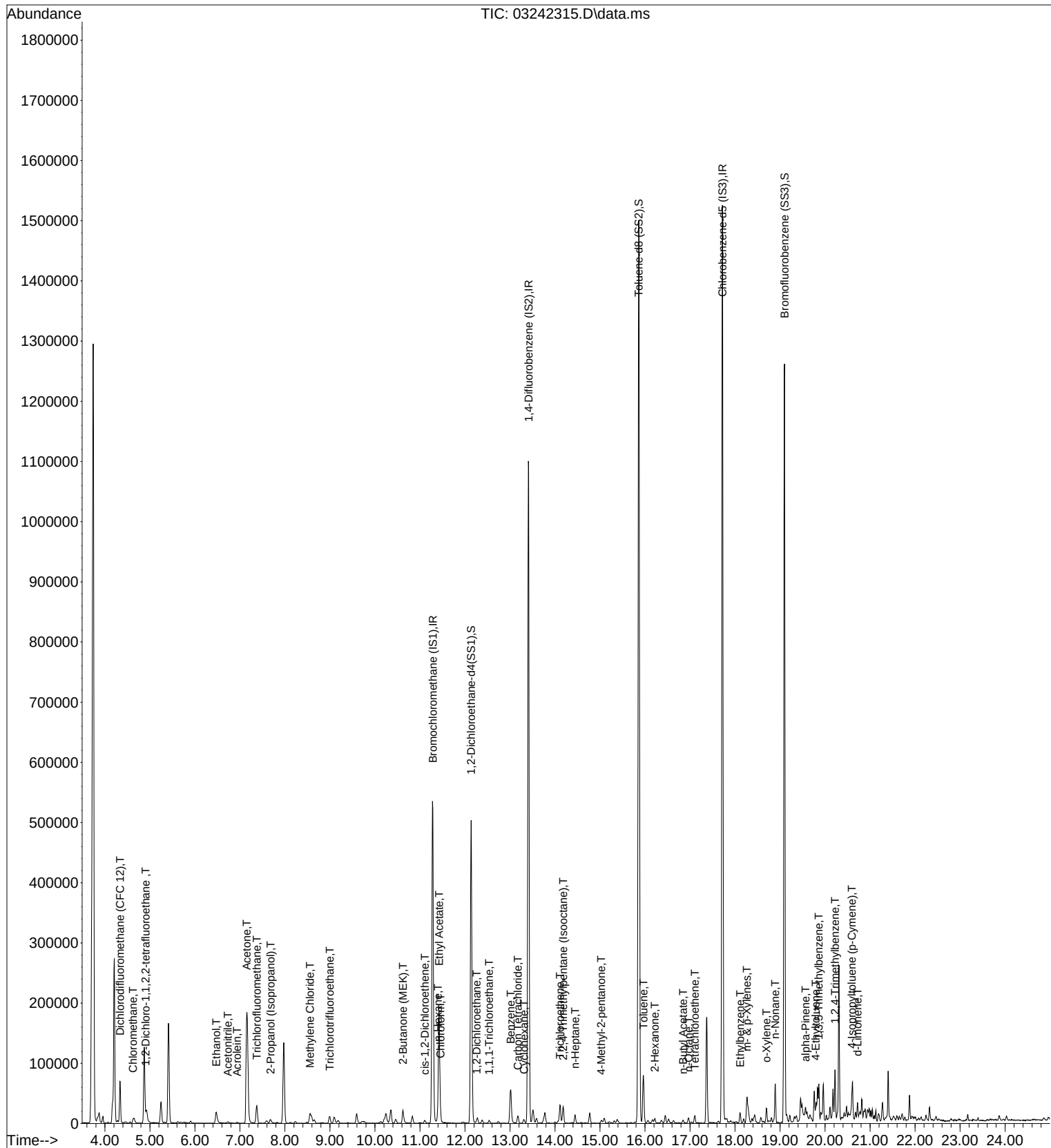
						Qvalue
3) Dichlorodifluoromethan...	4.34	85	60825	1.922	ng	99
4) Chloromethane	4.63	50	6287	0.212	ng	93
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	1454	0.082	ng	80
10) Ethanol	6.47	45	31478	1.545	ng	97
11) Acetonitrile	6.73	41	3542	0.069	ng	80
12) Acrolein	6.93	56	1951	0.135	ng	99
13) Acetone	7.15	58	63727	4.090	ng	# 59
14) Trichlorofluoromethane	7.37	101	28377	0.972	ng	99
15) 2-Propanol (Isopropanol)	7.68	45	10533	0.194	ng	78
19) Methylene Chloride	8.56	84	7814	0.454	ng	92
21) Trichlorotrifluoroethane	9.00	151	4935	0.339	ng	86
27) 2-Butanone (MEK)	10.62	72	7874	0.697	ng	99
28) cis-1,2-Dichloroethene	11.11	61	3099	0.119	ng	96
30) Ethyl Acetate	11.42	61	31949	4.324	ng	96
31) n-Hexane	11.40	57	8764	0.237	ng	96
32) Chloroform	11.46	83	3214	0.114	ng	96
36) 1,2-Dichloroethane	12.26	62	1268	0.055	ng	86
38) 1,1,1-Trichloroethane	12.53	97	2577	0.098	ng	96
41) Benzene	13.02	78	34886	0.508	ng	99
42) Carbon Tetrachloride	13.18	117	6983	0.313	ng	97
43) Cyclohexane	13.31	84	2268	0.078	ng	95
47) Trichloroethene	14.11	130	10776	0.578	ng	97
49) 2,2,4-Trimethylpentane...	14.18	57	25453	0.275	ng	80
51) n-Heptane	14.45	71	3503	0.174	ng	95
53) 4-Methyl-2-pentanone	15.02	58	1414	0.089	ng	# 66
58) Toluene	15.96	91	59632	0.715	ng	99
59) 2-Hexanone	16.22	43	6330	0.144	ng	80
62) n-Butyl Acetate	16.84	43	4166	0.083	ng	97
63) n-Octane	16.97	57	1713	0.080	ng	97
64) Tetrachloroethene	17.11	166	3759	0.177	ng	96
66) Ethylbenzene	18.11	91	13208	0.140	ng	100
67) m- & p-Xylenes	18.26	91	32946	0.442	ng	97
70) o-Xylene	18.70	91	13573	0.185	ng	97
71) n-Nonane	18.89	43	24357	0.466	ng	94
75) alpha-Pinene	19.57	93	7312	0.308	ng	92
78) 4-Ethyltoluene	19.79	105	5269	0.060	ng	# 44
79) 1,3,5-Trimethylbenzene	19.86	105	9371	0.119	ng	93
82) 1,2,4-Trimethylbenzene	20.22	105	28104	0.374	ng	86
88) 4-Isopropyltoluene (p-...	20.59	119	6839	0.062	ng	83
91) d-Limonene	20.72	68	6507	0.304	ng	94

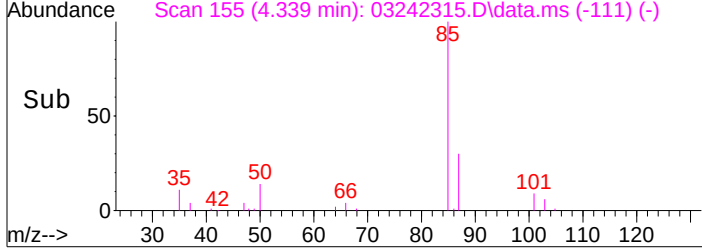
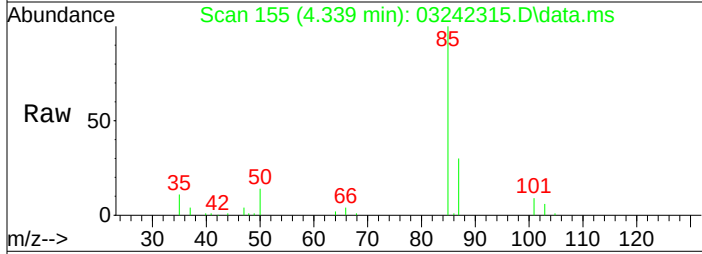
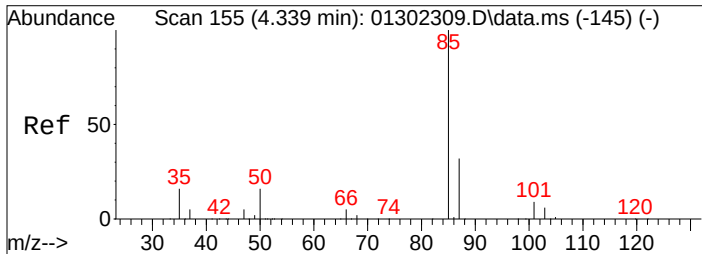
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS16\DATA\2023_03\24\03242315.D
Acq On : 24 Mar 2023 13:59
Sample : P2301250-041 (1000mL)
Misc : S35-01312301

Vial: 3
Operator: WA
Inst : GCMS-16

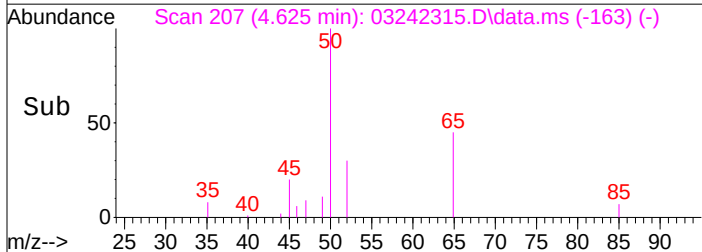
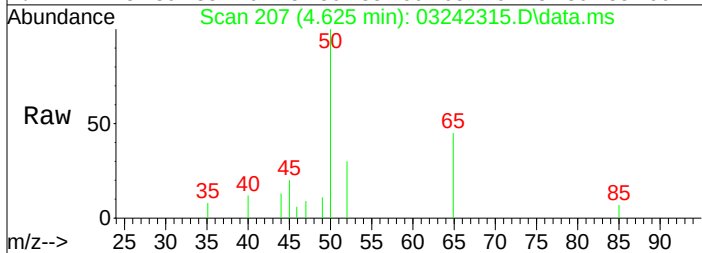
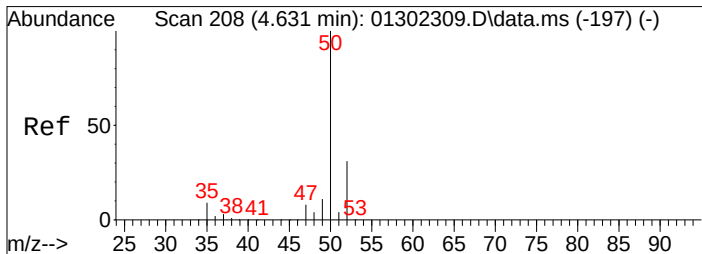
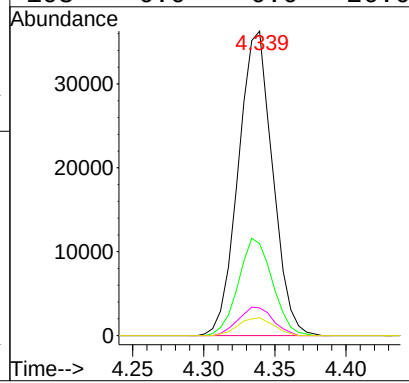
Quant Time: Mar 24 20:57:20 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M





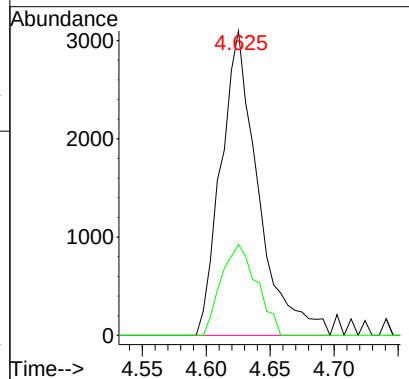
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.92 ng
 RT: 4.34 min Scan# 155
 Delta R.T. -0.011 min
 Lab File: 03242315.D
 Acq: 24 Mar 2023 13:59

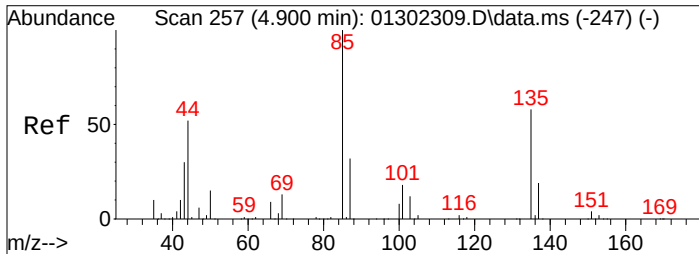
Tgt Ion:	85	Resp:	60825
Ion Ratio	Lower	Upper	
85	100		
87	31.7	12.1	52.1
101	9.4	0.0	29.3
103	6.0	0.0	26.0



#4
 Chloromethane
 Concen: 0.21 ng
 RT: 4.63 min Scan# 207
 Delta R.T. -0.011 min
 Lab File: 03242315.D
 Acq: 24 Mar 2023 13:59

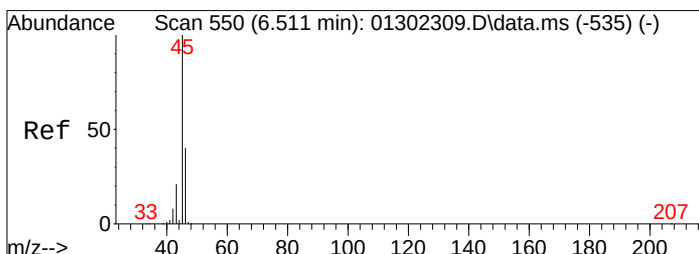
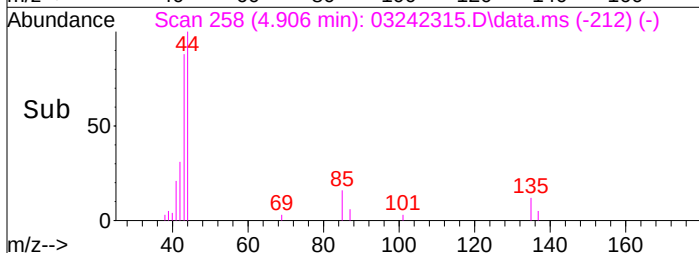
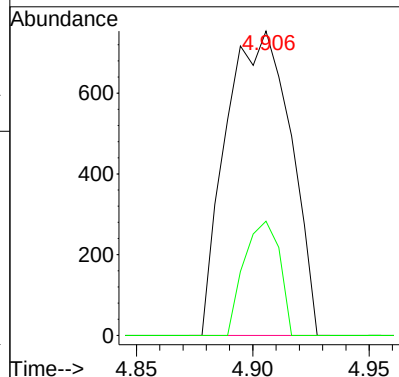
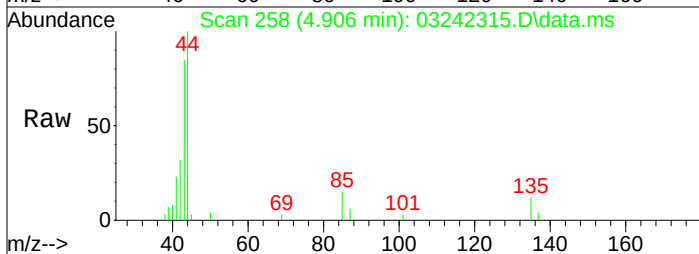
Tgt Ion:	50	Resp:	6287
Ion Ratio	Lower	Upper	
50	100		
52	28.5	12.2	52.2





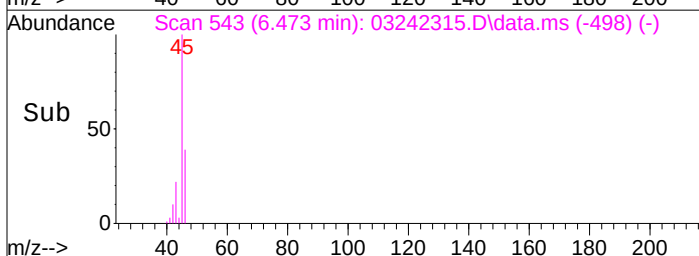
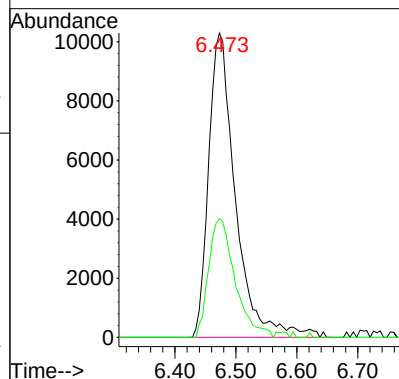
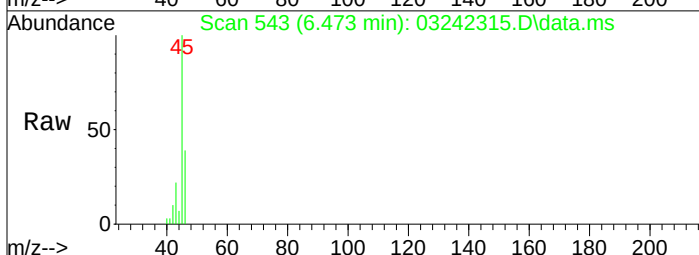
#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.08 ng
 RT: 4.91 min Scan# 258
 Delta R.T. 0.000 min
 Lab File: 03242315.D
 Acq: 24 Mar 2023 13:59

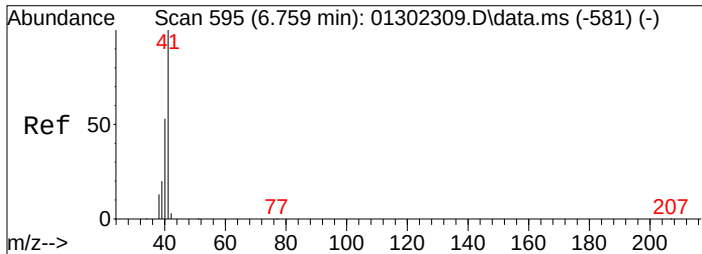
Tgt Ion: 135 Resp: 1454
 Ion Ratio Lower Upper
 135 100
 137 20.6 12.0 52.0



#10
 Ethanol
 Concen: 1.54 ng
 RT: 6.47 min Scan# 543
 Delta R.T. -0.005 min
 Lab File: 03242315.D
 Acq: 24 Mar 2023 13:59

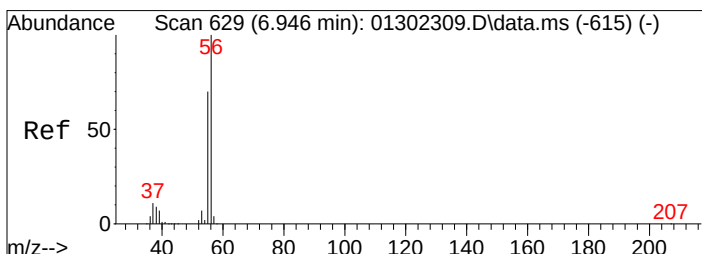
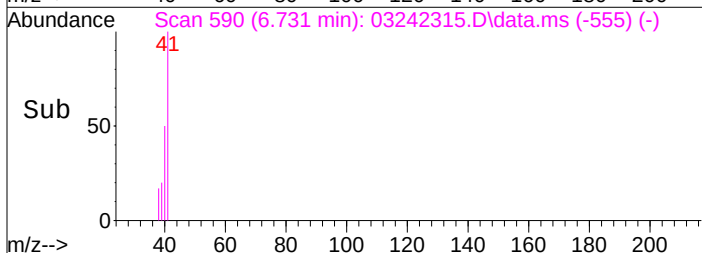
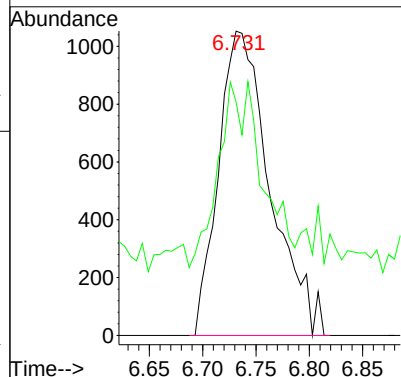
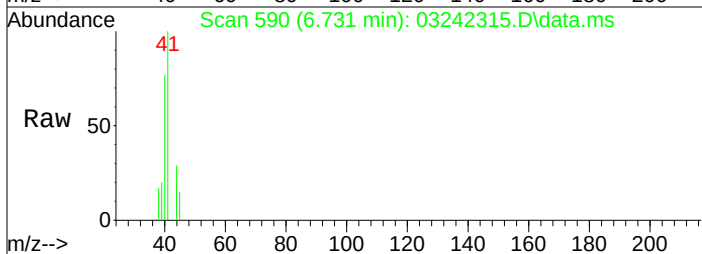
Tgt Ion: 45 Resp: 31478
 Ion Ratio Lower Upper
 45 100
 46 38.4 20.5 60.5





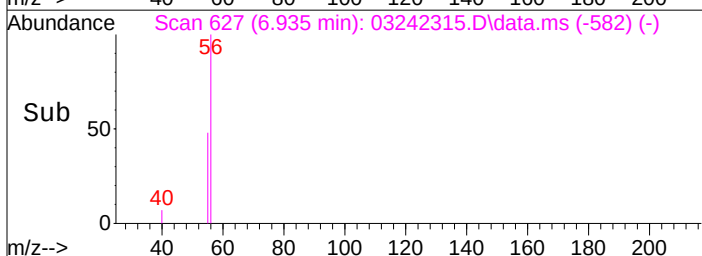
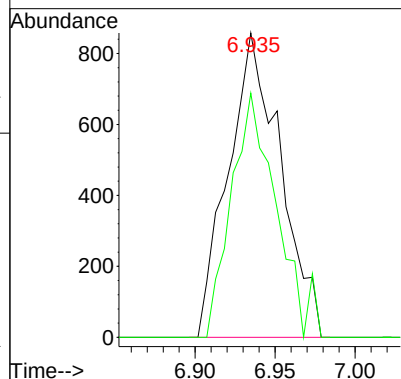
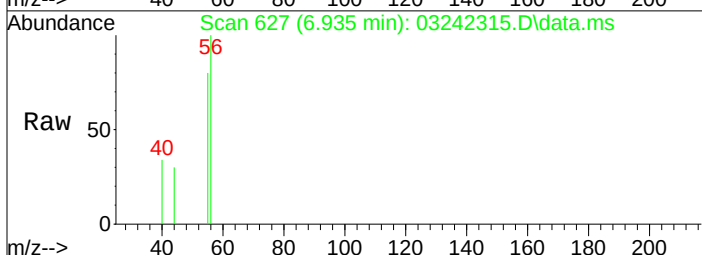
#11
Acetonitrile
Concen: 0.07 ng
RT: 6.73 min Scan# 590
Delta R.T. -0.006 min
Lab File: 03242315.D
Acq: 24 Mar 2023 13:59

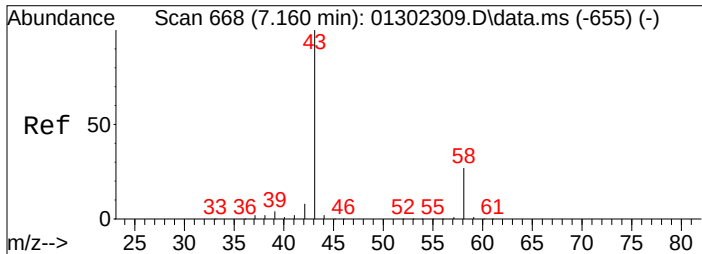
Tgt Ion: 41 Resp: 3542
Ion Ratio Lower Upper
41 100
40 66.4 32.4 72.4



#12
Acrolein
Concen: 0.14 ng
RT: 6.93 min Scan# 627
Delta R.T. -0.000 min
Lab File: 03242315.D
Acq: 24 Mar 2023 13:59

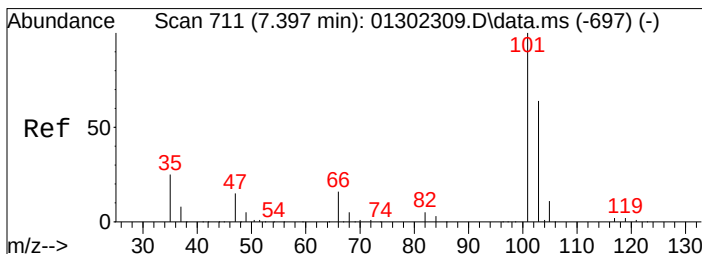
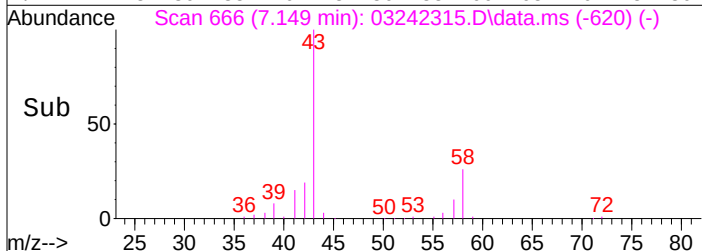
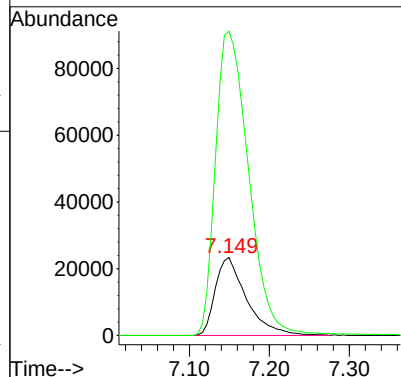
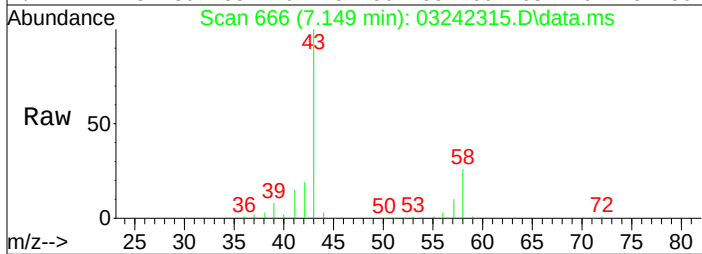
Tgt Ion: 56 Resp: 1951
Ion Ratio Lower Upper
56 100
55 69.2 49.9 89.9





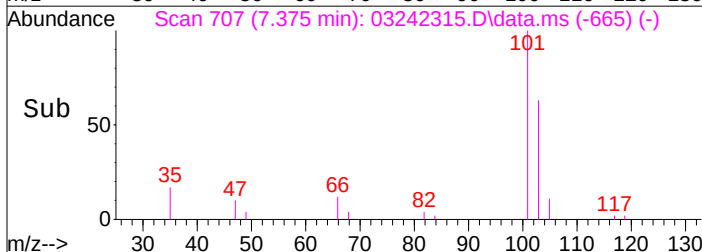
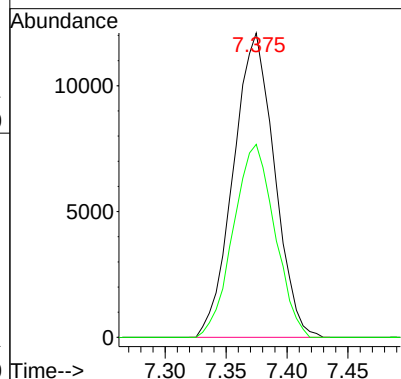
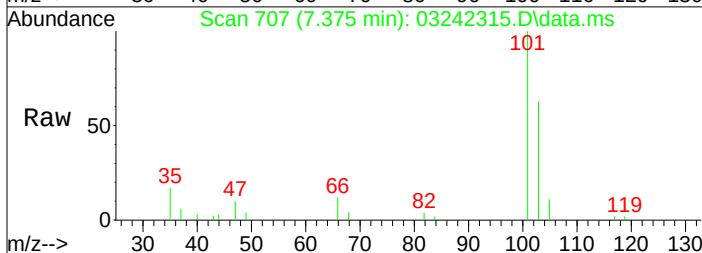
#13
Acetone
Concen: 4.09 ng
RT: 7.15 min Scan# 666
Delta R.T. 0.005 min
Lab File: 03242315.D
Acq: 24 Mar 2023 13:59

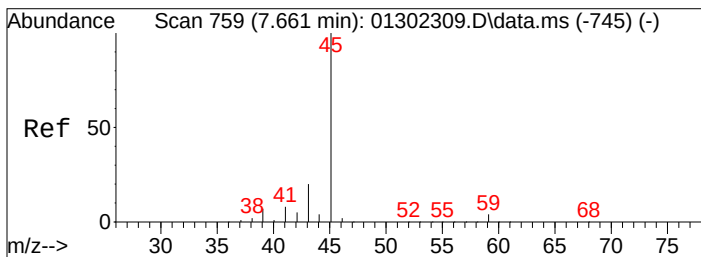
Tgt Ion: 58 Resp: 63727
Ion Ratio Lower Upper
58 100
43 414.6 298.5 358.5#



#14
Trichlorofluoromethane
Concen: 0.97 ng
RT: 7.37 min Scan# 707
Delta R.T. -0.022 min
Lab File: 03242315.D
Acq: 24 Mar 2023 13:59

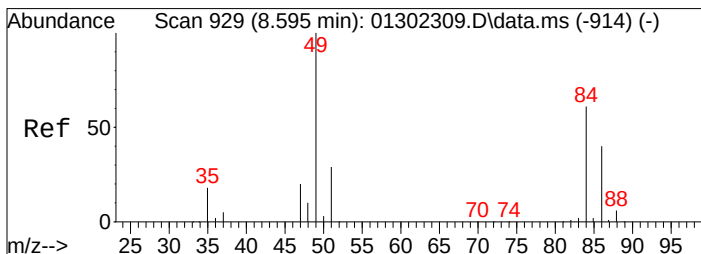
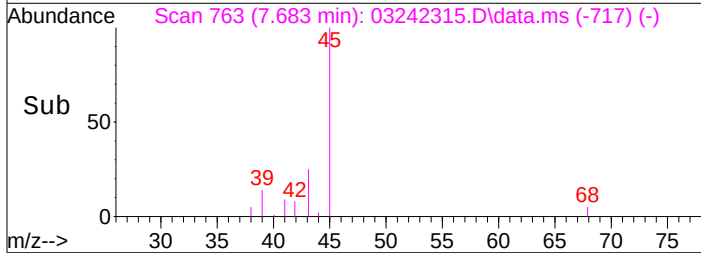
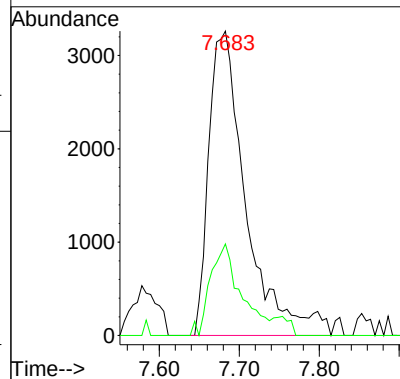
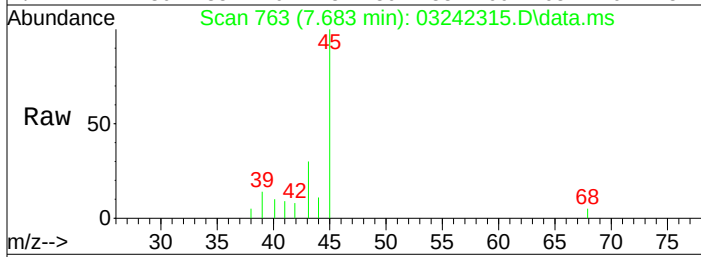
Tgt Ion: 101 Resp: 28377
Ion Ratio Lower Upper
101 100
103 64.0 44.8 84.8





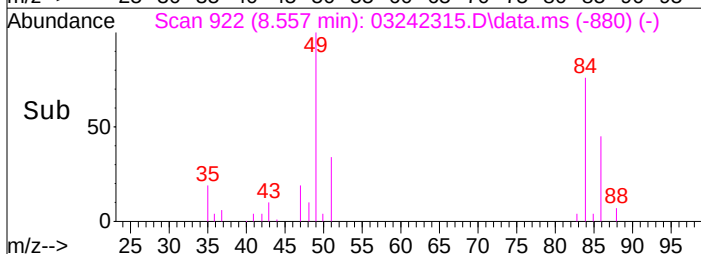
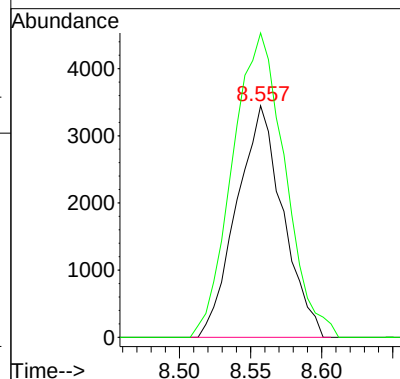
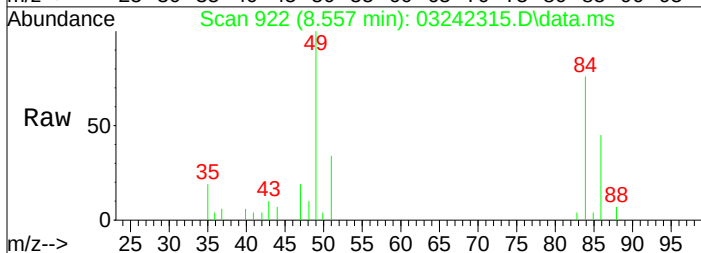
#15
 2-Propanol (Isopropanol)
 Concen: 0.19 ng
 RT: 7.68 min Scan# 763
 Delta R.T. 0.003 min
 Lab File: 03242315.D
 Acq: 24 Mar 2023 13:59

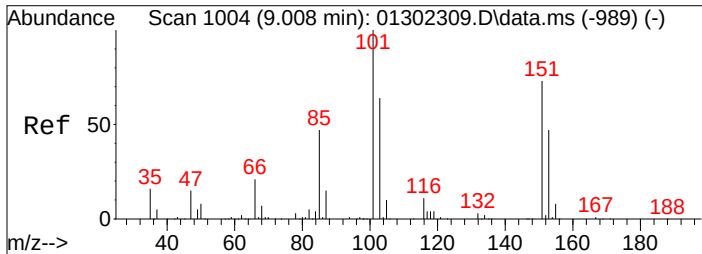
Tgt Ion: 45 Resp: 10533
 Ion Ratio Lower Upper
 45 100
 43 27.7 0.0 37.9



#19
 Methylene Chloride
 Concen: 0.45 ng
 RT: 8.56 min Scan# 922
 Delta R.T. -0.022 min
 Lab File: 03242315.D
 Acq: 24 Mar 2023 13:59

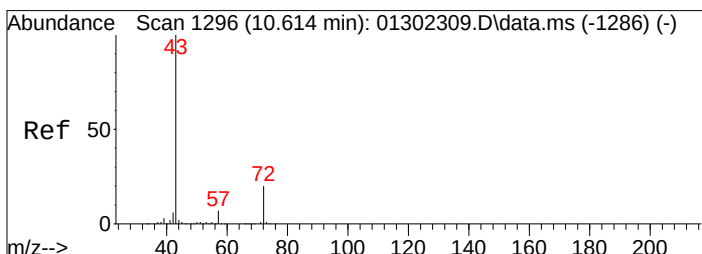
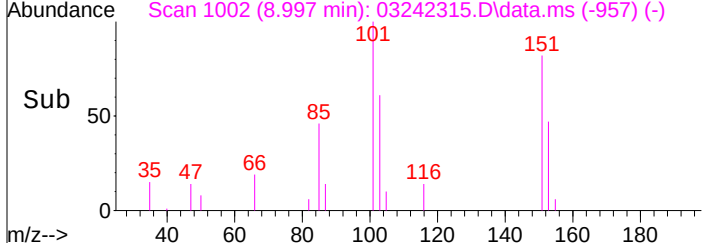
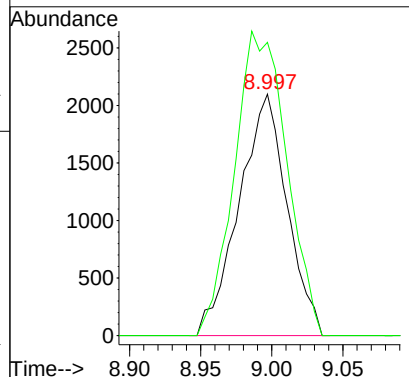
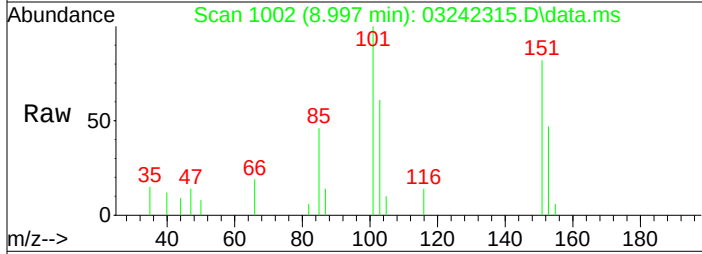
Tgt Ion: 84 Resp: 7814
 Ion Ratio Lower Upper
 84 100
 49 149.0 135.0 185.0





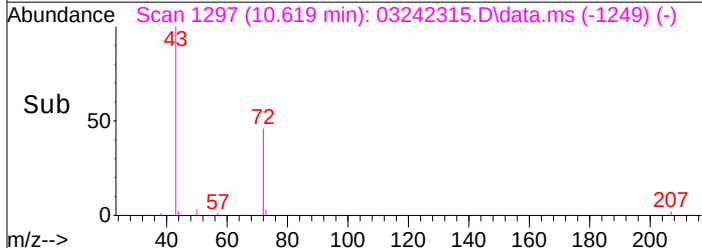
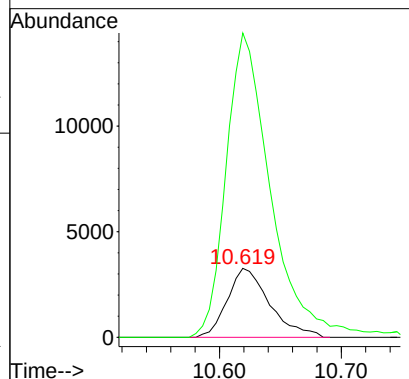
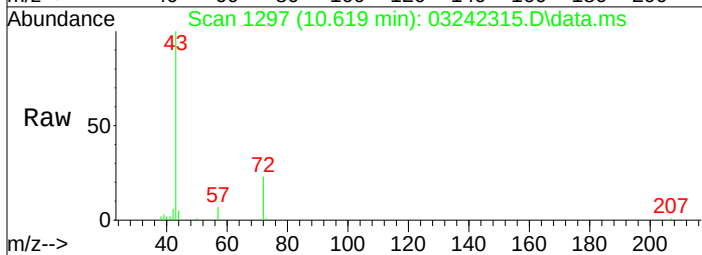
#21
 Trichlorotrifluoroethane
 Concen: 0.34 ng
 RT: 9.00 min Scan# 1002
 Delta R.T. -0.005 min
 Lab File: 03242315.D
 Acq: 24 Mar 2023 13:59

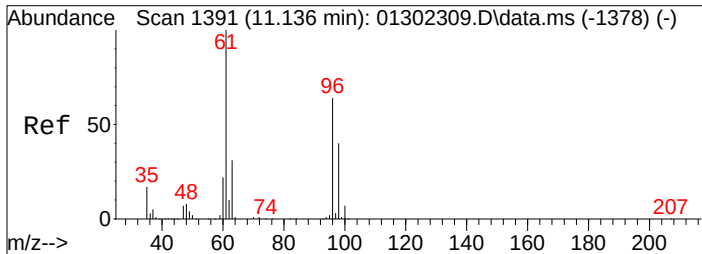
Tgt Ion	Resp	Lower	Upper
151	4935		
101	100	101.5	141.5



#27
 2-Butanone (MEK)
 Concen: 0.70 ng
 RT: 10.62 min Scan# 1297
 Delta R.T. 0.011 min
 Lab File: 03242315.D
 Acq: 24 Mar 2023 13:59

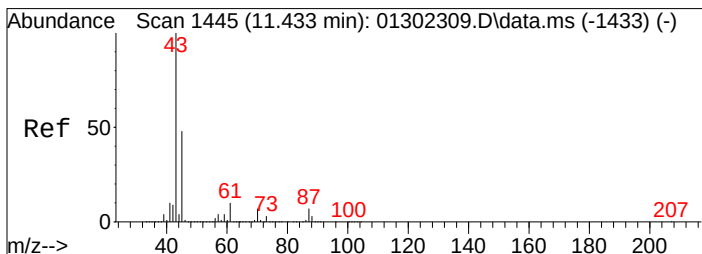
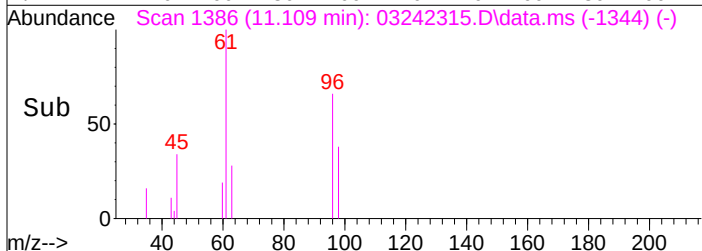
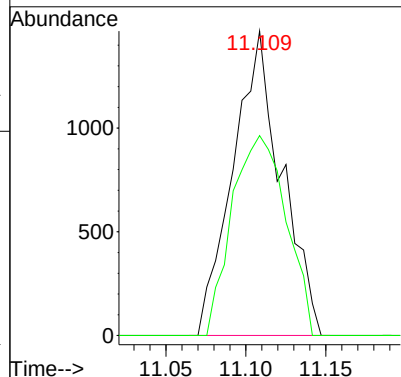
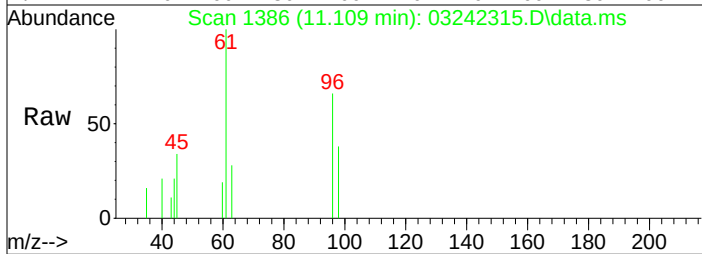
Tgt Ion	Resp	Lower	Upper
72	7874		
43	100	449.4	489.4





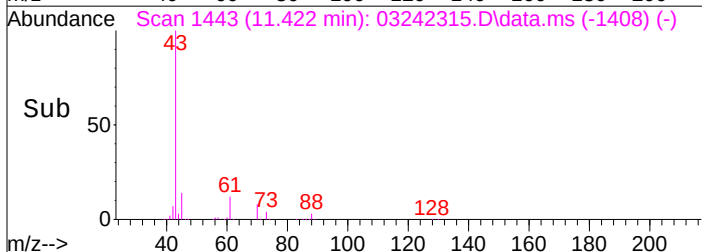
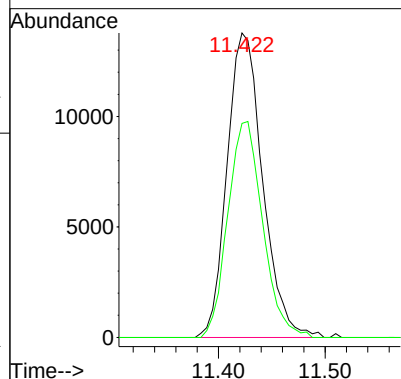
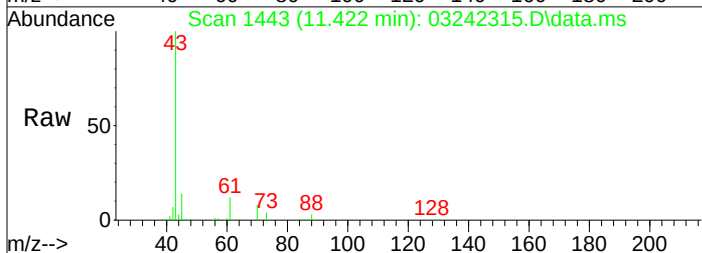
#28
 cis-1,2-Dichloroethene
 Concen: 0.12 ng
 RT: 11.11 min Scan# 1386
 Delta R.T. -0.016 min
 Lab File: 03242315.D
 Acq: 24 Mar 2023 13:59

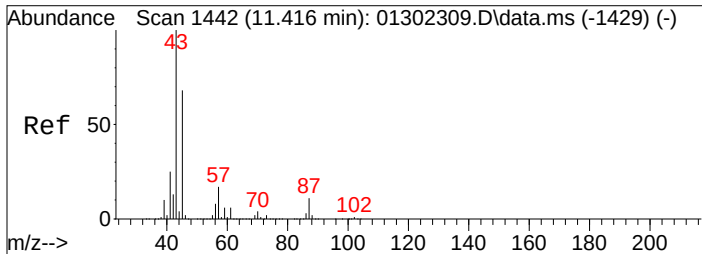
Tgt Ion: 61 Resp: 3099
 Ion Ratio Lower Upper
 61 100
 96 73.1 49.9 89.9



#30
 Ethyl Acetate
 Concen: 4.32 ng
 RT: 11.42 min Scan# 1443
 Delta R.T. -0.005 min
 Lab File: 03242315.D
 Acq: 24 Mar 2023 13:59

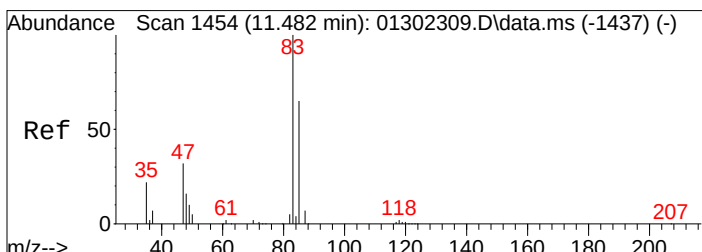
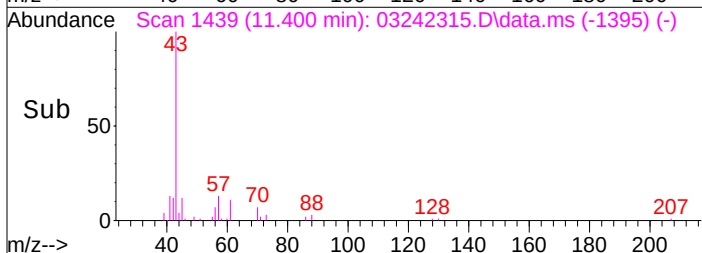
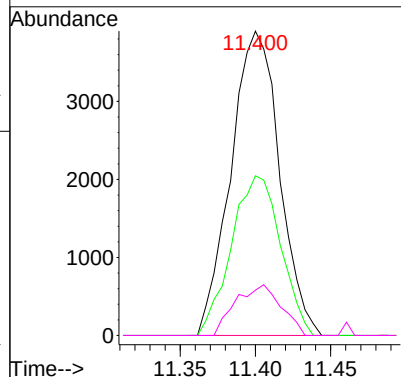
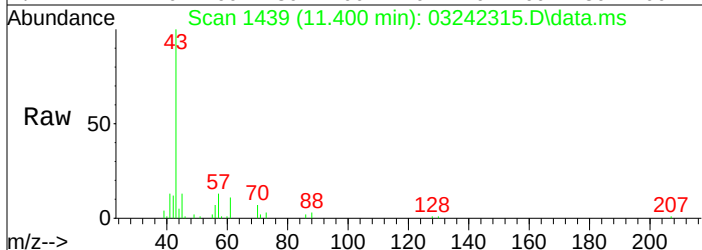
Tgt Ion: 61 Resp: 31949
 Ion Ratio Lower Upper
 61 100
 70 69.4 52.8 92.8





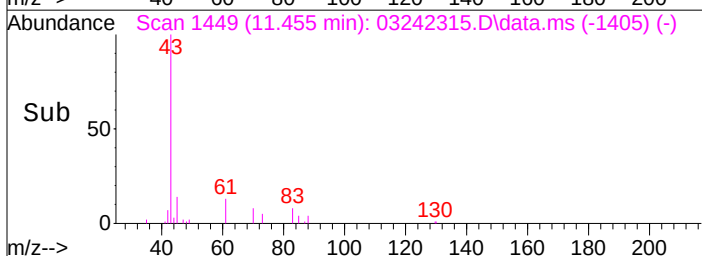
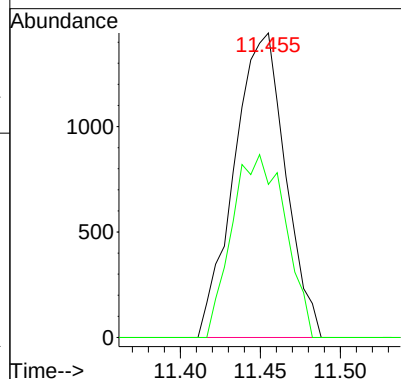
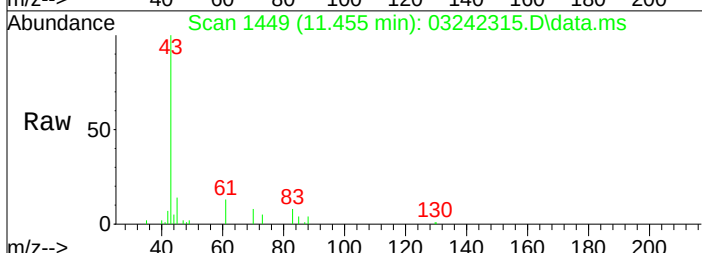
#31
n-Hexane
Concen: 0.24 ng
RT: 11.40 min Scan# 1439
Delta R.T. -0.011 min
Lab File: 03242315.D
Acq: 24 Mar 2023 13:59

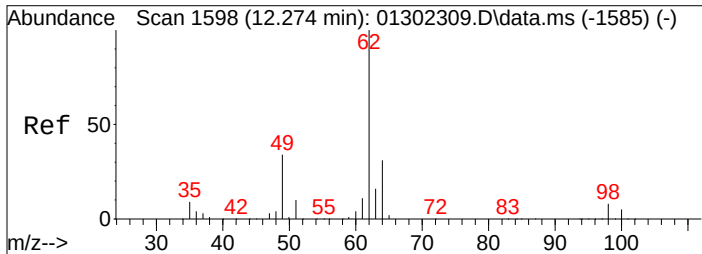
Tgt Ion:	57	Resp:	8764
Ion Ratio		Lower	Upper
57	100		
56	53.1	39.9	59.9
86	15.7	12.3	18.5



#32
Chloroform
Concen: 0.11 ng
RT: 11.46 min Scan# 1449
Delta R.T. -0.011 min
Lab File: 03242315.D
Acq: 24 Mar 2023 13:59

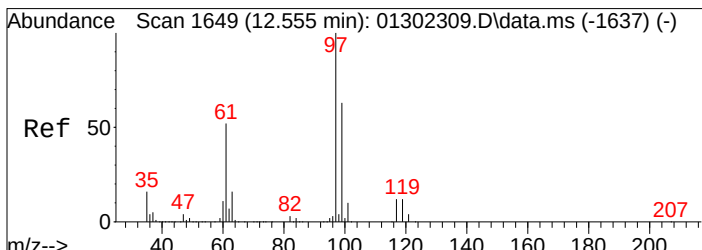
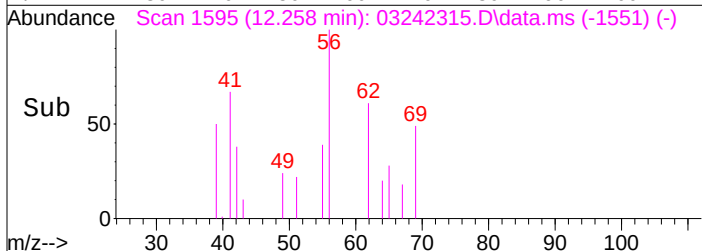
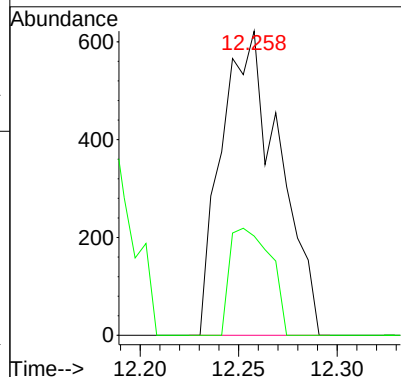
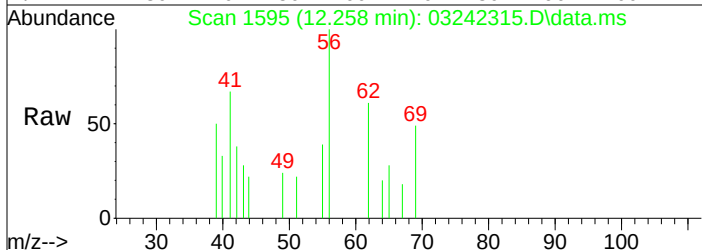
Tgt Ion:	83	Resp:	3214
Ion Ratio		Lower	Upper
83	100		
85	62.6	45.5	85.5





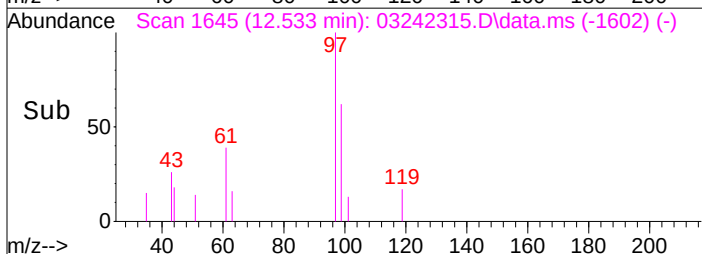
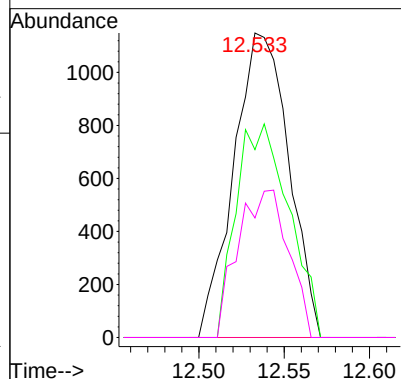
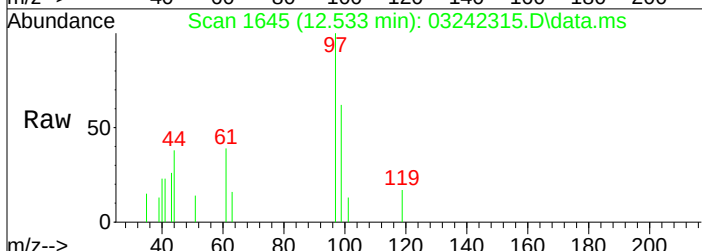
#36
 1,2-Dichloroethane
 Concen: 0.06 ng
 RT: 12.26 min Scan# 1595
 Delta R.T. -0.011 min
 Lab File: 03242315.D
 Acq: 24 Mar 2023 13:59

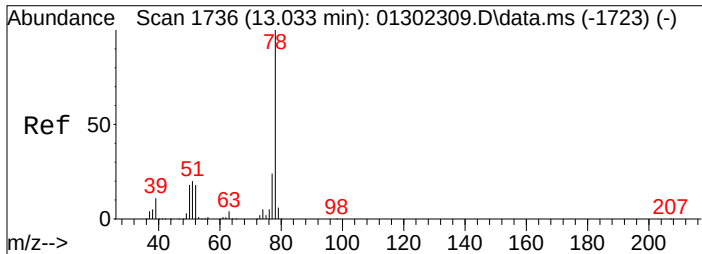
Tgt Ion: 62 Resp: 1268
 Ion Ratio Lower Upper
 62 100
 64 24.9 12.5 52.5



#38
 1,1,1-Trichloroethane
 Concen: 0.10 ng
 RT: 12.53 min Scan# 1645
 Delta R.T. -0.016 min
 Lab File: 03242315.D
 Acq: 24 Mar 2023 13:59

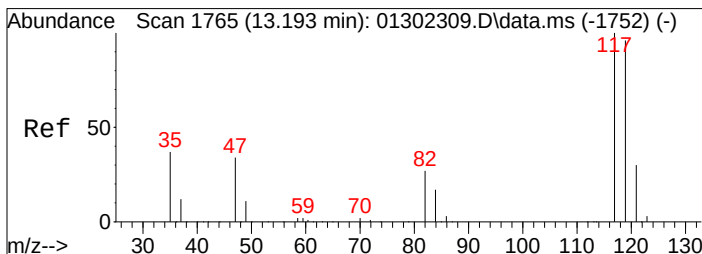
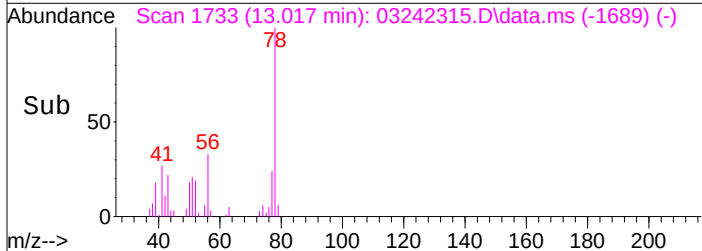
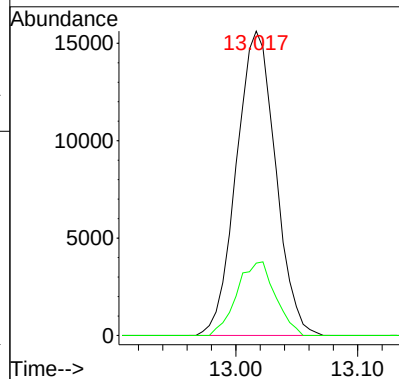
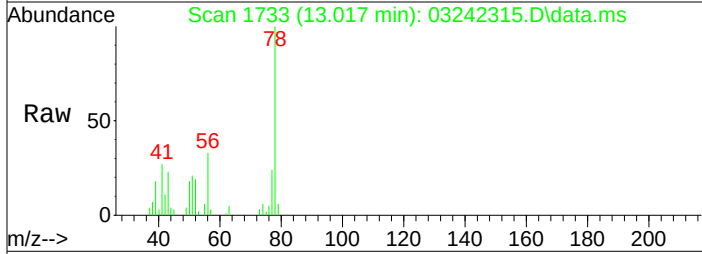
Tgt Ion: 97 Resp: 2577
 Ion Ratio Lower Upper
 97 100
 99 67.3 44.0 84.0
 61 44.5 26.8 66.8





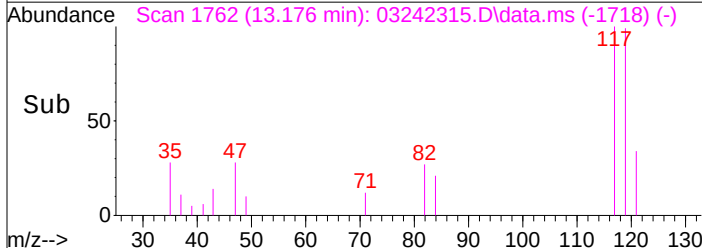
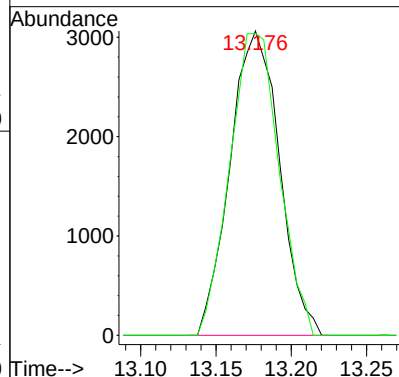
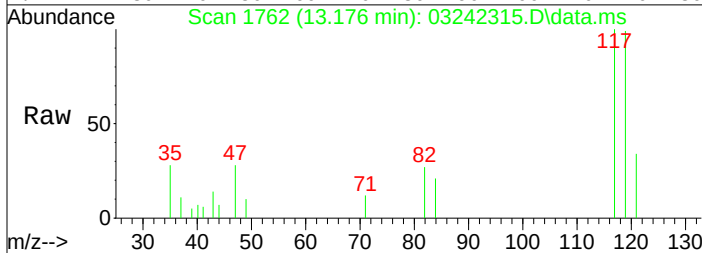
#41
Benzene
Concen: 0.51 ng
RT: 13.02 min Scan# 1733
Delta R.T. -0.011 min
Lab File: 03242315.D
Acq: 24 Mar 2023 13:59

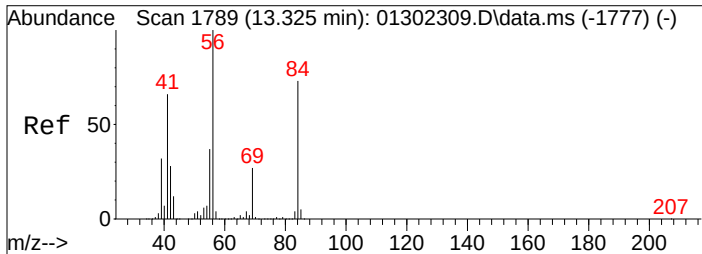
Tgt Ion: 78 Resp: 34886
Ion Ratio Lower Upper
78 100
77 23.8 3.3 43.3



#42
Carbon Tetrachloride
Concen: 0.31 ng
RT: 13.18 min Scan# 1762
Delta R.T. -0.011 min
Lab File: 03242315.D
Acq: 24 Mar 2023 13:59

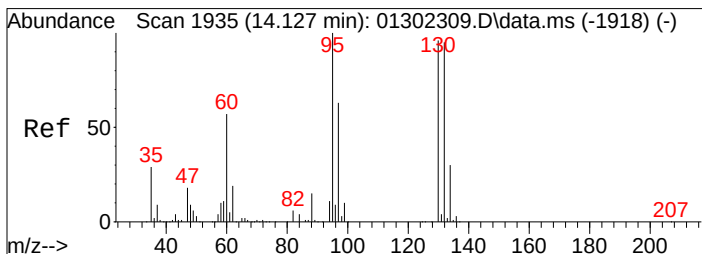
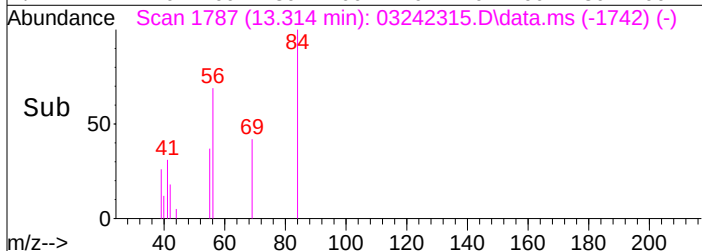
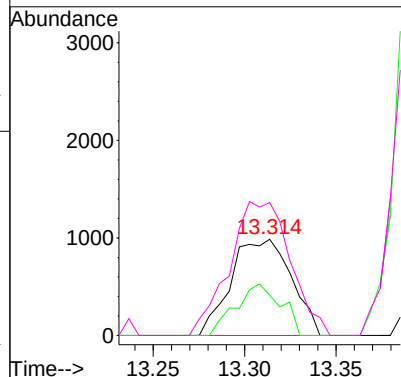
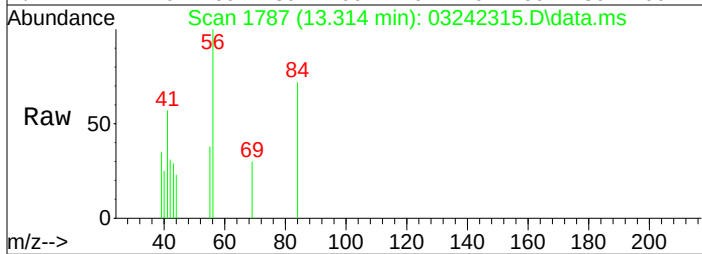
Tgt Ion: 117 Resp: 6983
Ion Ratio Lower Upper
117 100
119 99.4 76.2 116.2





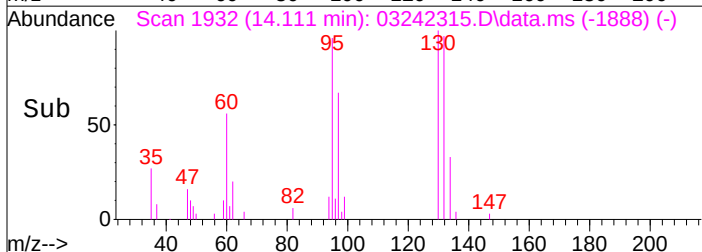
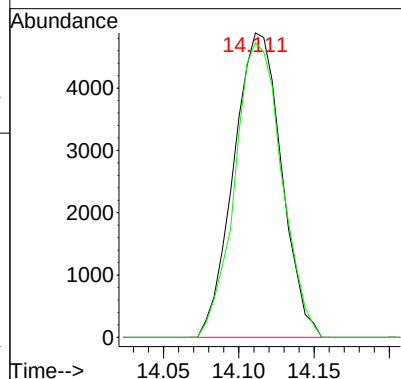
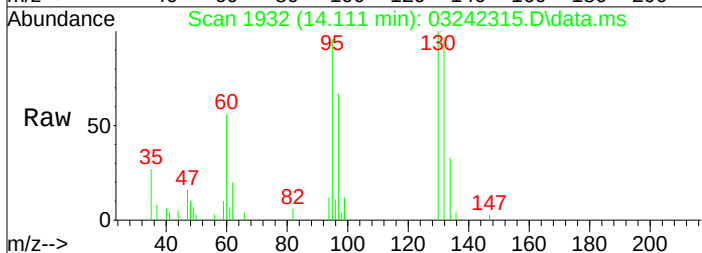
#43
Cyclohexane
Concen: 0.08 ng
RT: 13.31 min Scan# 1787
Delta R.T. -0.005 min
Lab File: 03242315.D
Acq: 24 Mar 2023 13:59

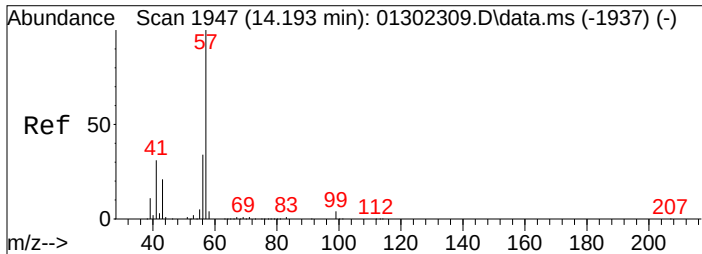
Tgt Ion: 84 Resp: 2268
Ion Ratio Lower Upper
84 100
69 40.2 16.2 56.2
56 140.3 115.2 155.2



#47
Trichloroethene
Concen: 0.58 ng
RT: 14.11 min Scan# 1932
Delta R.T. -0.011 min
Lab File: 03242315.D
Acq: 24 Mar 2023 13:59

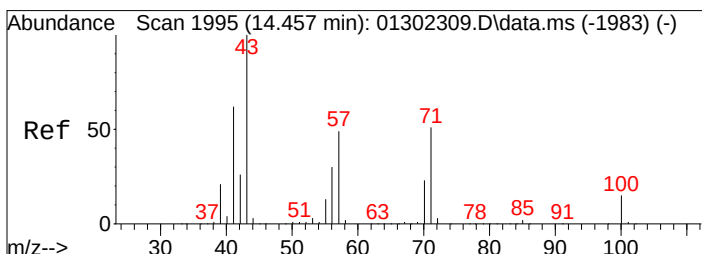
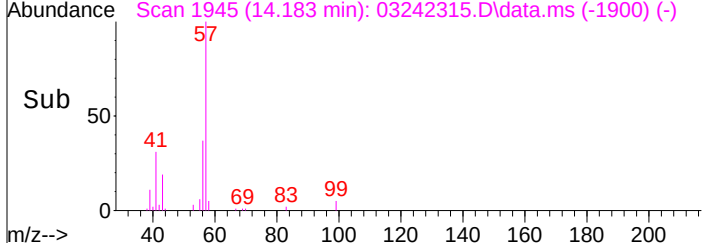
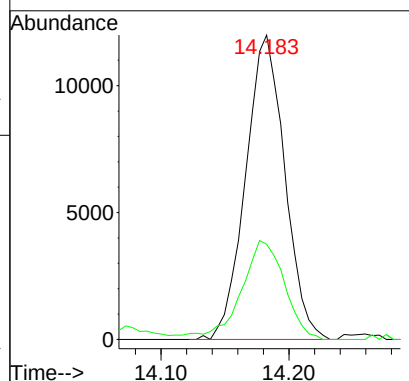
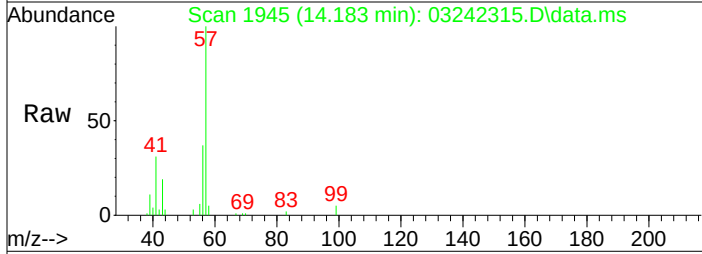
Tgt Ion: 130 Resp: 10776
Ion Ratio Lower Upper
130 100
132 95.3 78.7 118.7





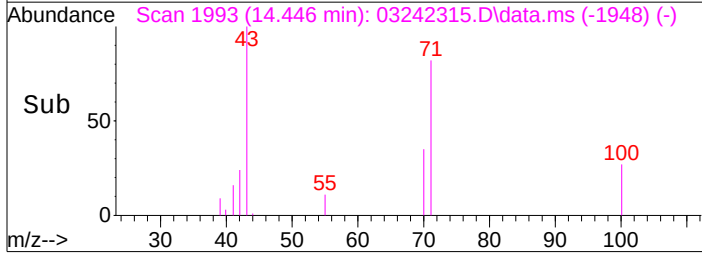
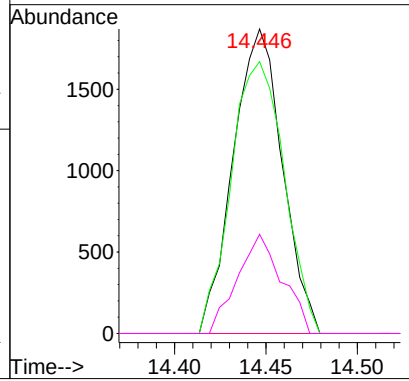
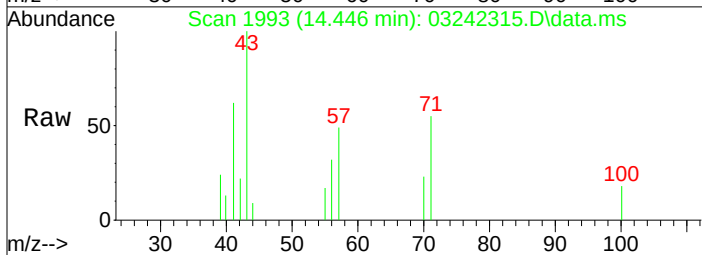
#49
 2,2,4-Trimethylpentane (Isooctane)
 Concen: 0.27 ng
 RT: 14.18 min Scan# 1945
 Delta R.T. -0.005 min
 Lab File: 03242315.D
 Acq: 24 Mar 2023 13:59

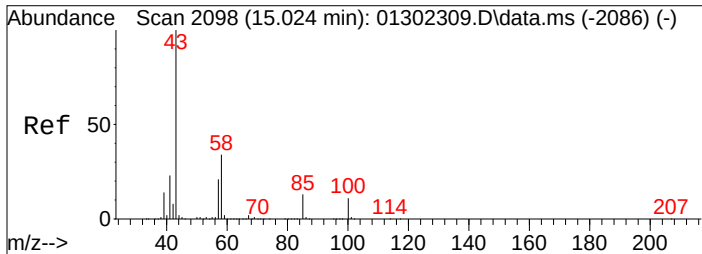
Tgt Ion:	57	Resp:	25453
Ion Ratio	Lower	Upper	
57	100		
41	35.9	5.8	45.8



#51
 n-Heptane
 Concen: 0.17 ng
 RT: 14.45 min Scan# 1993
 Delta R.T. -0.005 min
 Lab File: 03242315.D
 Acq: 24 Mar 2023 13:59

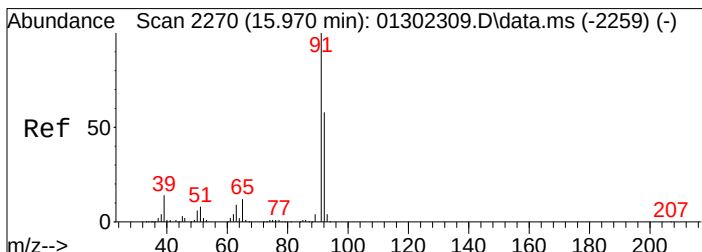
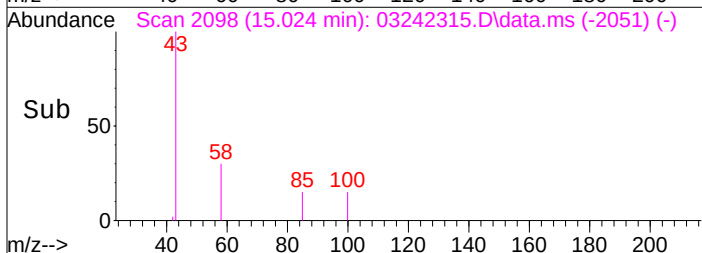
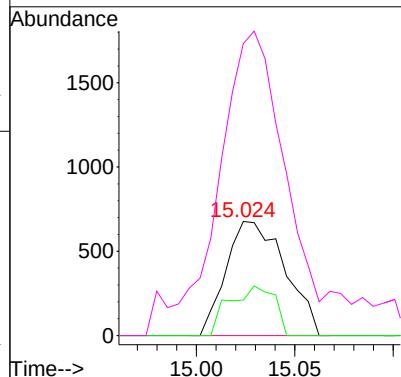
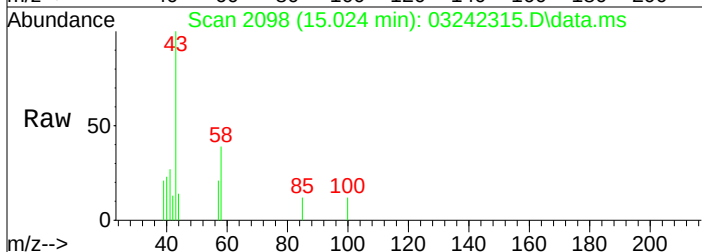
Tgt Ion:	71	Resp:	3503
Ion Ratio	Lower	Upper	
71	100		
57	96.2	81.4	121.4
100	29.5	11.8	51.8





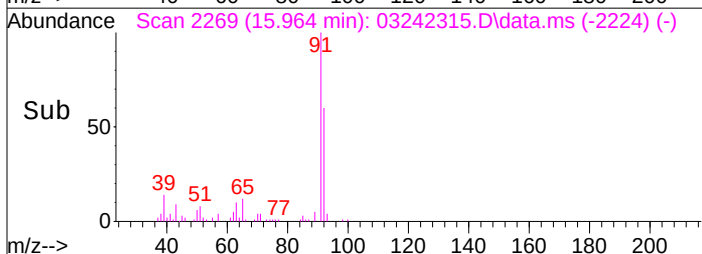
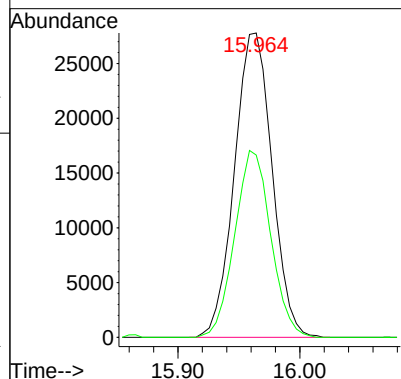
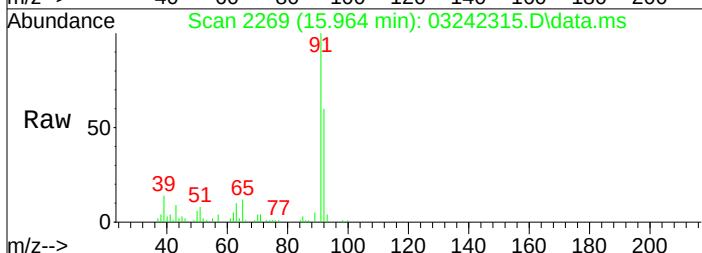
#53
 4-Methyl-2-pentanone
 Concen: 0.09 ng
 RT: 15.02 min Scan# 2098
 Delta R.T. 0.006 min
 Lab File: 03242315.D
 Acq: 24 Mar 2023 13:59

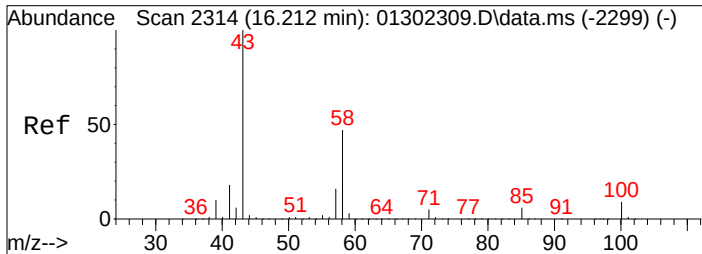
Tgt Ion:	58	Resp:	1414
Ion Ratio	Lower	Upper	
58	100		
85	33.2	31.7	47.5
43	337.1	214.3	321.5#



#58
 Toluene
 Concen: 0.72 ng
 RT: 15.96 min Scan# 2269
 Delta R.T. -0.005 min
 Lab File: 03242315.D
 Acq: 24 Mar 2023 13:59

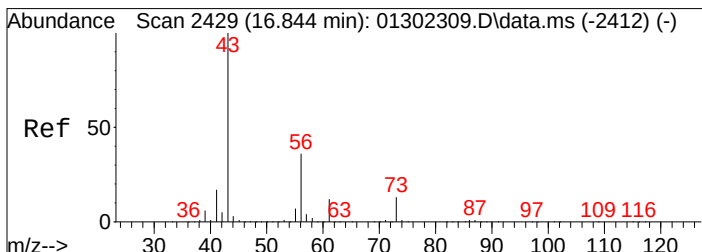
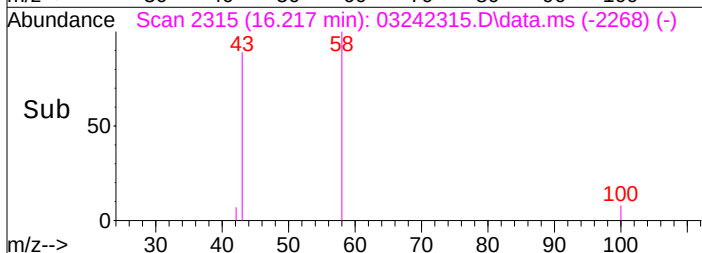
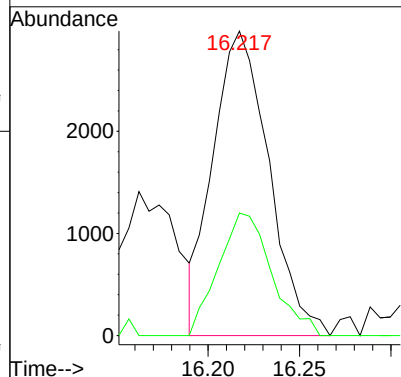
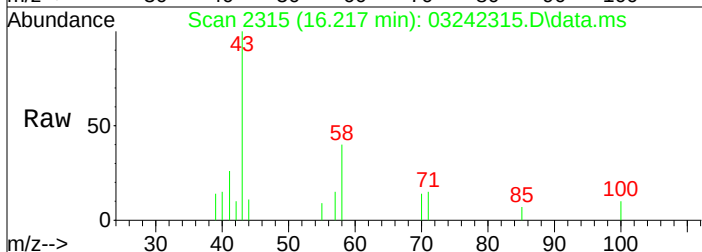
Tgt Ion:	91	Resp:	59632
Ion Ratio	Lower	Upper	
91	100		
92	58.8	39.8	79.8





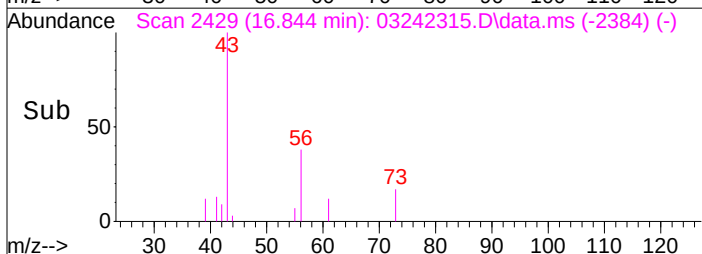
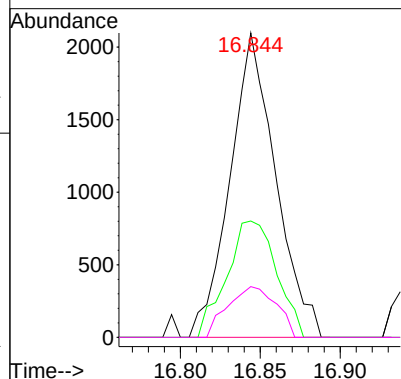
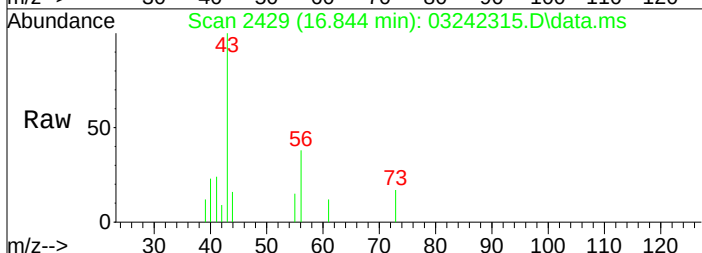
#59
2-Hexanone
Concen: 0.14 ng
RT: 16.22 min Scan# 2315
Delta R.T. 0.006 min
Lab File: 03242315.D
Acq: 24 Mar 2023 13:59

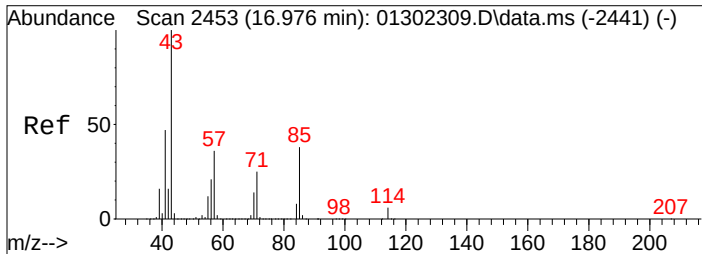
Tgt Ion: 43 Resp: 6330
Ion Ratio Lower Upper
43 100
58 38.4 32.3 72.3



#62
n-Butyl Acetate
Concen: 0.08 ng
RT: 16.84 min Scan# 2429
Delta R.T. 0.000 min
Lab File: 03242315.D
Acq: 24 Mar 2023 13:59

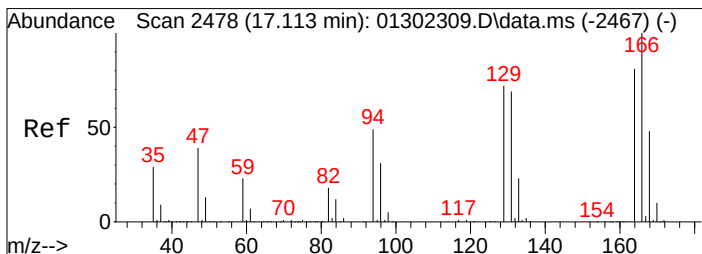
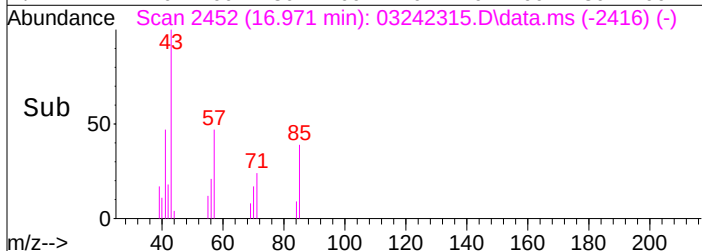
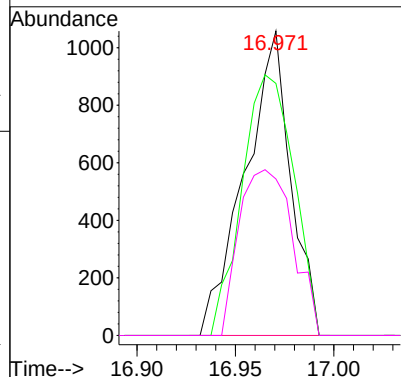
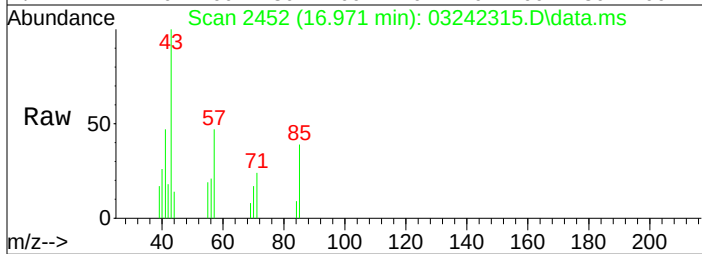
Tgt Ion: 43 Resp: 4166
Ion Ratio Lower Upper
43 100
56 41.6 21.0 61.0
73 17.7 0.0 34.3





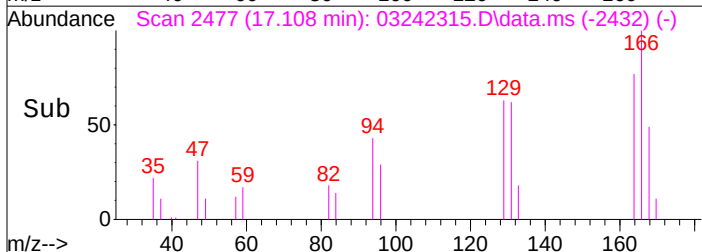
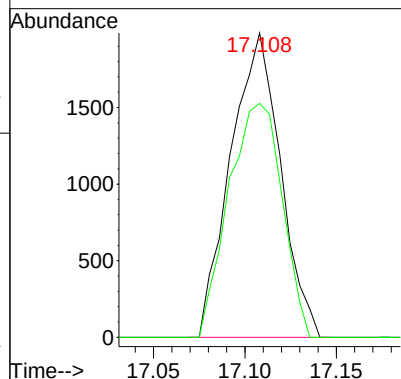
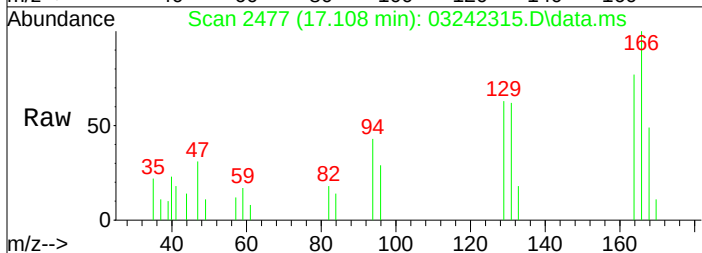
#63
n-Octane
Concen: 0.08 ng
RT: 16.97 min Scan# 2452
Delta R.T. 0.000 min
Lab File: 03242315.D
Acq: 24 Mar 2023 13:59

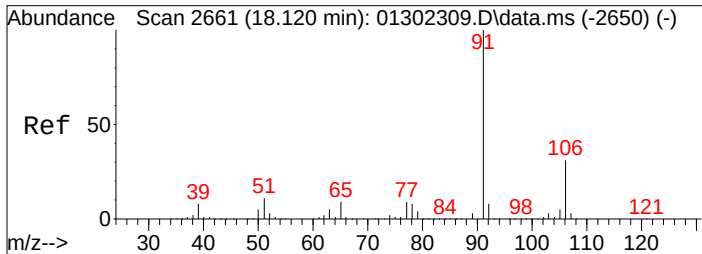
Tgt Ion:	57	Resp:	1713
Ion Ratio		Lower	Upper
57	100		
85	96.9	81.4	122.2
71	64.0	51.7	77.5



#64
Tetrachloroethene
Concen: 0.18 ng
RT: 17.11 min Scan# 2477
Delta R.T. -0.005 min
Lab File: 03242315.D
Acq: 24 Mar 2023 13:59

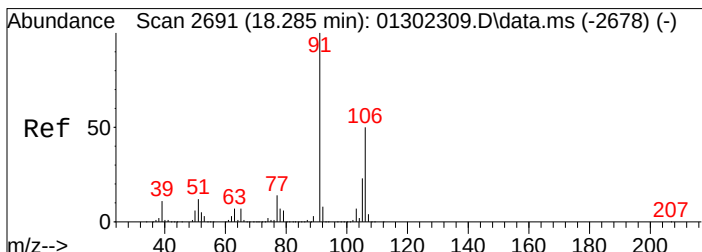
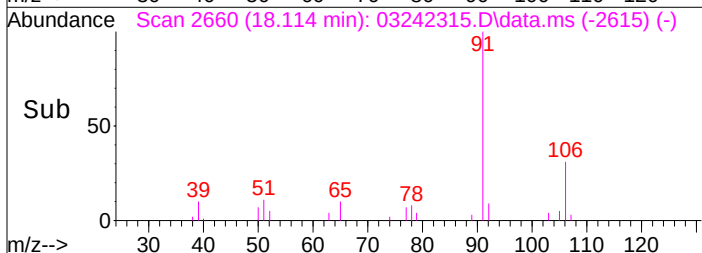
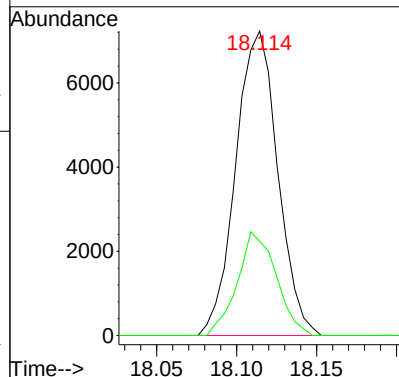
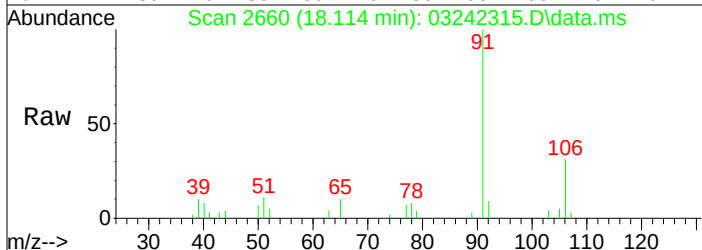
Tgt Ion:	166	Resp:	3759
Ion Ratio		Lower	Upper
166	100		
164	82.5	58.7	98.7





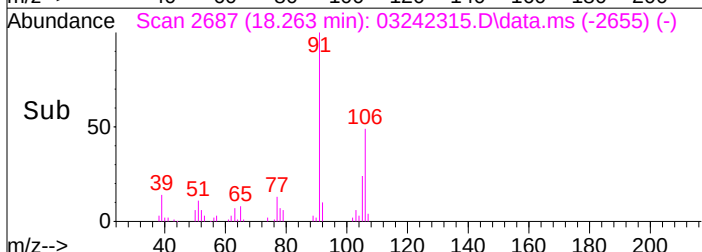
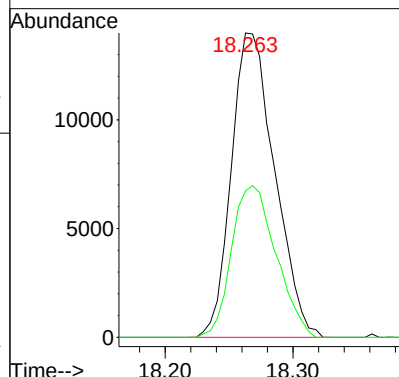
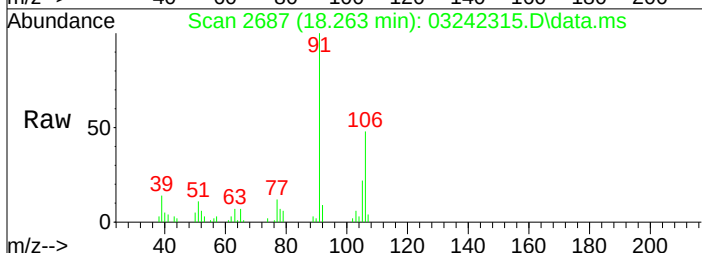
#66
Ethylbenzene
Concen: 0.14 ng
RT: 18.11 min Scan# 2660
Delta R.T. -0.005 min
Lab File: 03242315.D
Acq: 24 Mar 2023 13:59

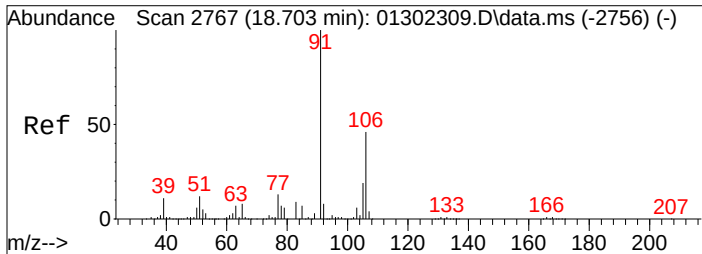
Tgt Ion	91	106	Resp	13208	Lower	Upper
Ion Ratio	100	31.6			11.5	51.5



#67
m- & p-Xylenes
Concen: 0.44 ng
RT: 18.26 min Scan# 2687
Delta R.T. -0.022 min
Lab File: 03242315.D
Acq: 24 Mar 2023 13:59

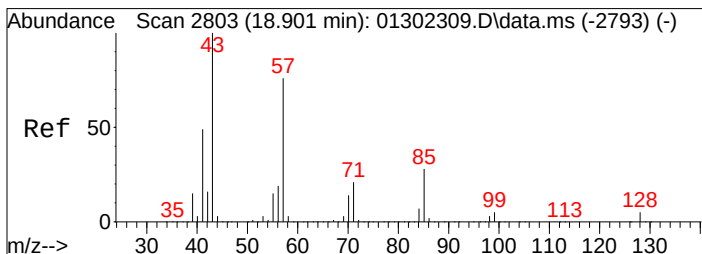
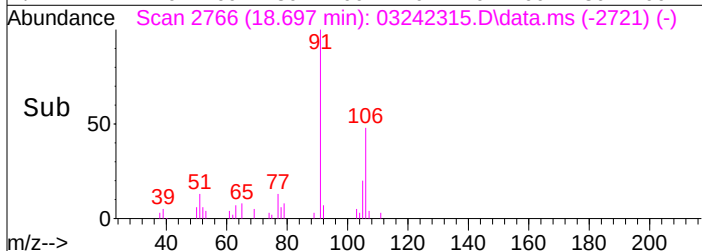
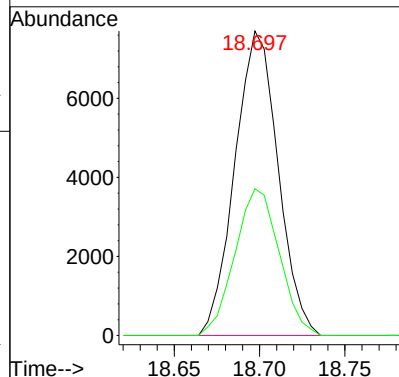
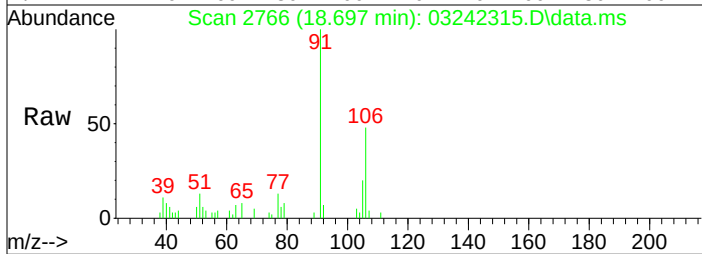
Tgt Ion	91	106	Resp	32946	Lower	Upper
Ion Ratio	100	51.0			29.2	69.2





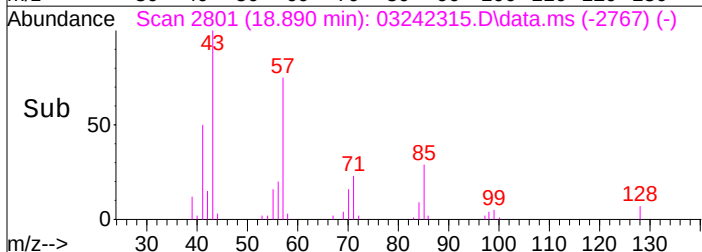
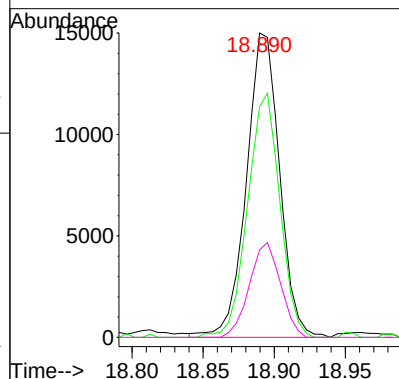
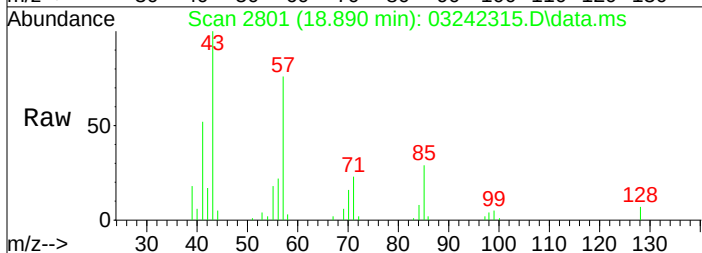
#70
o-Xylene
Concen: 0.19 ng
RT: 18.70 min Scan# 2766
Delta R.T. -0.005 min
Lab File: 03242315.D
Acq: 24 Mar 2023 13:59

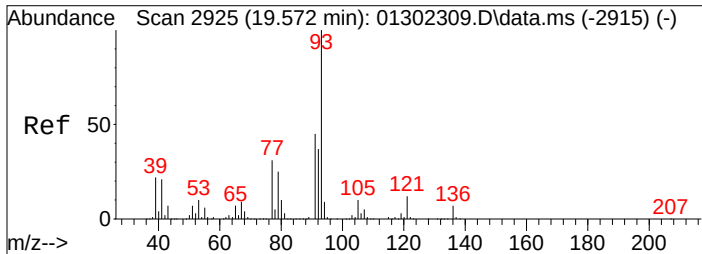
Tgt Ion: 91 Resp: 13573
Ion Ratio Lower Upper
91 100
106 49.4 27.3 67.3



#71
n-Nonane
Concen: 0.47 ng
RT: 18.89 min Scan# 2801
Delta R.T. -0.011 min
Lab File: 03242315.D
Acq: 24 Mar 2023 13:59

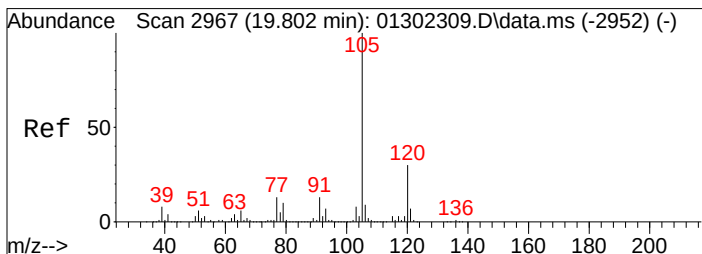
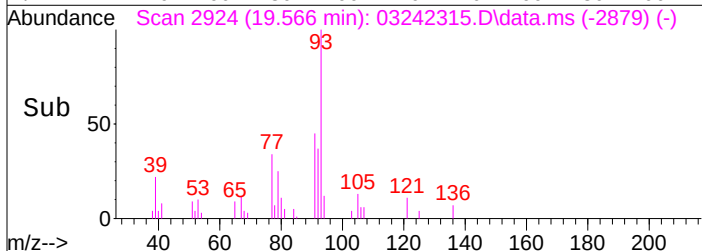
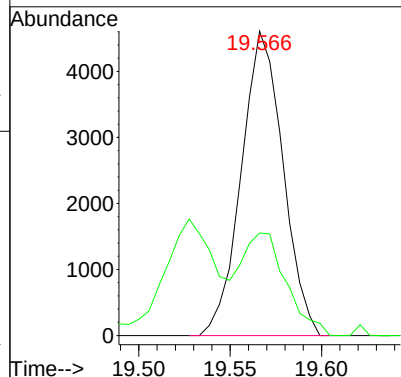
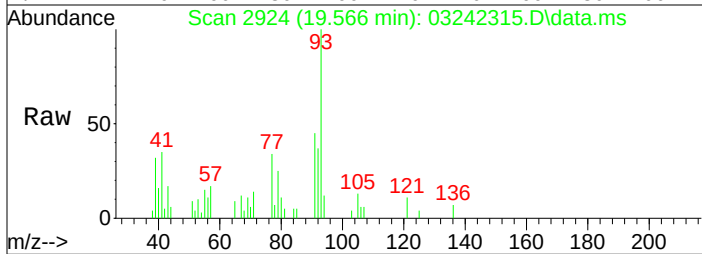
Tgt Ion: 43 Resp: 24357
Ion Ratio Lower Upper
43 100
57 77.8 64.6 104.6
85 29.2 9.6 49.6





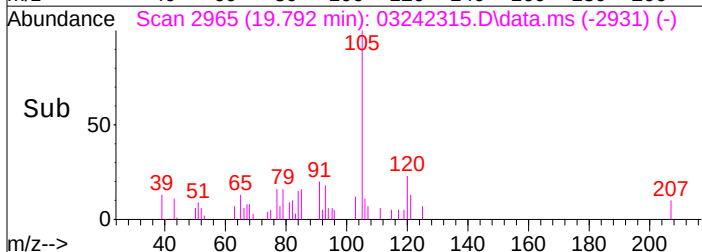
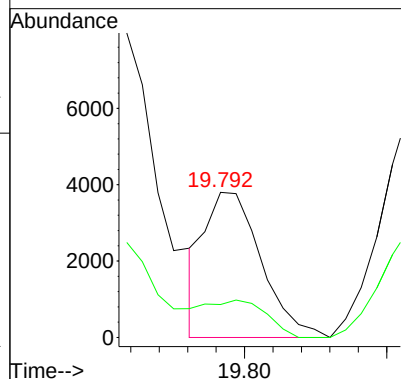
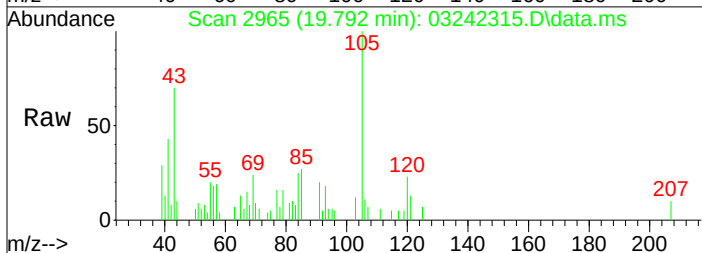
#75
 alpha-Pinene
 Concen: 0.31 ng
 RT: 19.57 min Scan# 2924
 Delta R.T. -0.005 min
 Lab File: 03242315.D
 Acq: 24 Mar 2023 13:59

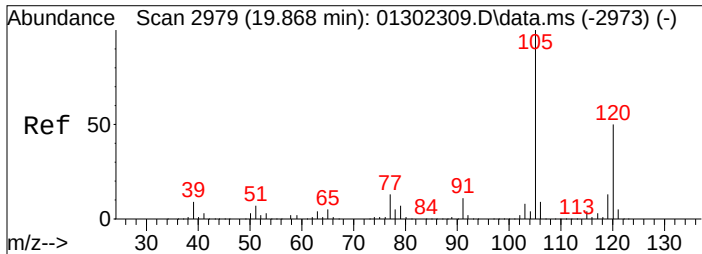
Tgt Ion: 93 Resp: 7312
 Ion Ratio Lower Upper
 93 100
 77 36.1 11.7 51.7



#78
 4-Ethyltoluene
 Concen: 0.06 ng
 RT: 19.79 min Scan# 2965
 Delta R.T. -0.011 min
 Lab File: 03242315.D
 Acq: 24 Mar 2023 13:59

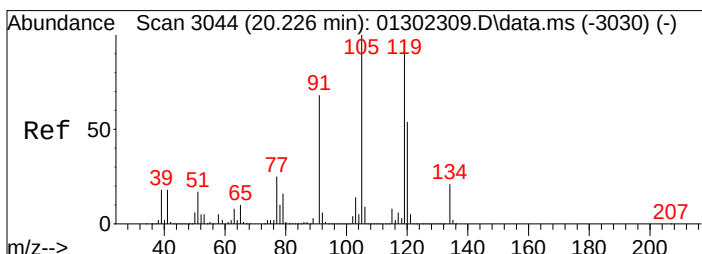
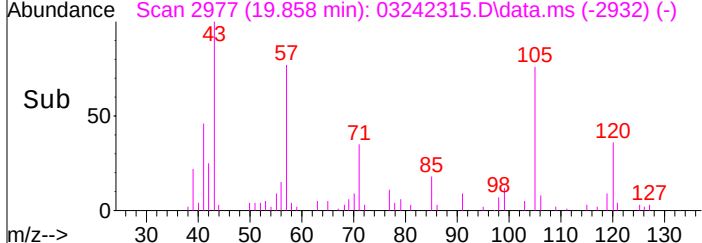
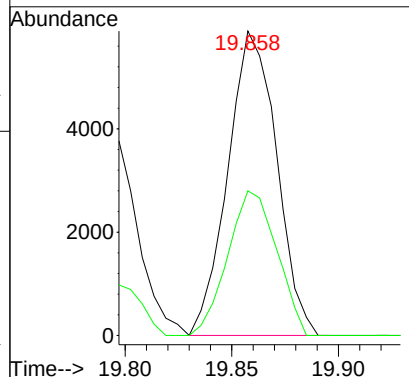
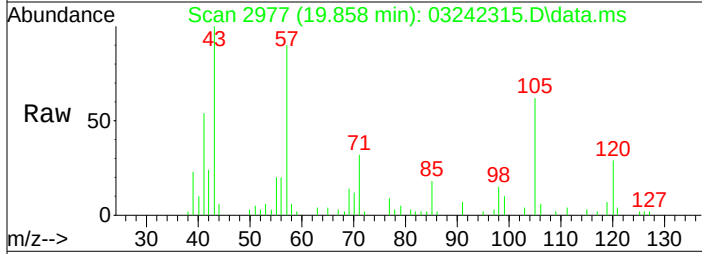
Tgt Ion: 105 Resp: 5269
 Ion Ratio Lower Upper
 105 100
 120 0.0 11.1 51.1#





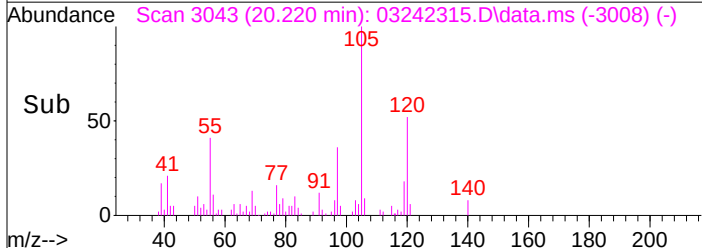
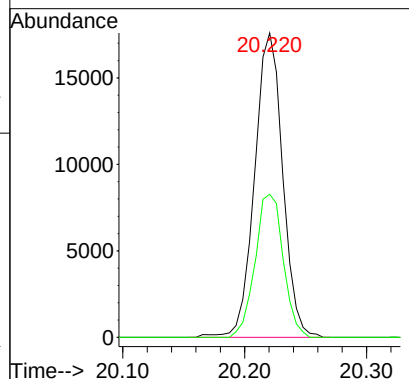
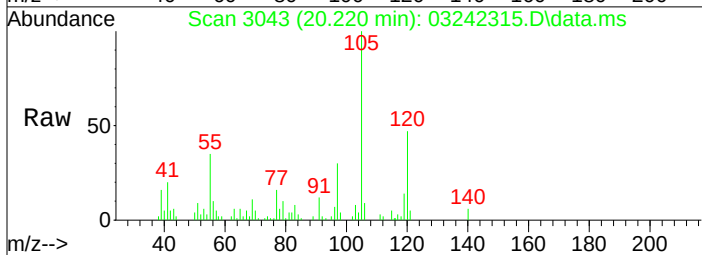
#79
 1,3,5-Trimethylbenzene
 Concen: 0.12 ng
 RT: 19.86 min Scan# 2977
 Delta R.T. -0.005 min
 Lab File: 03242315.D
 Acq: 24 Mar 2023 13:59

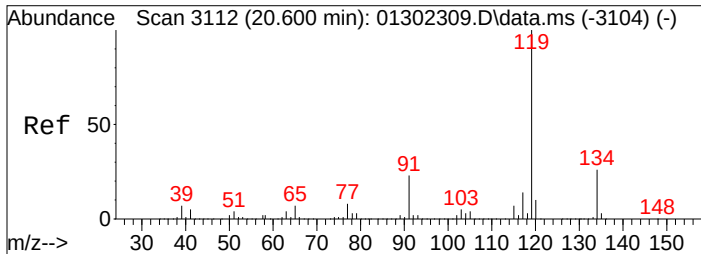
Tgt Ion:105	Resp:	9371
Ion Ratio	Lower	Upper
105	100	
120	47.7	32.5 72.5



#82
 1,2,4-Trimethylbenzene
 Concen: 0.37 ng
 RT: 20.22 min Scan# 3043
 Delta R.T. -0.005 min
 Lab File: 03242315.D
 Acq: 24 Mar 2023 13:59

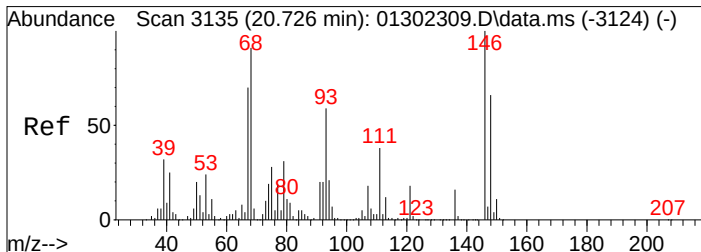
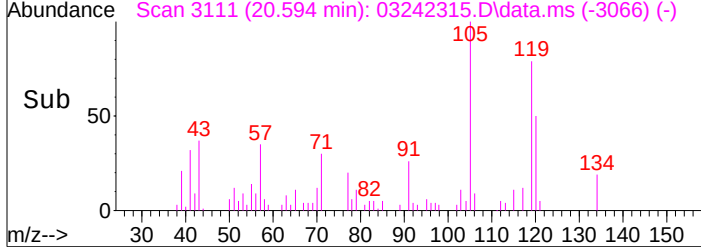
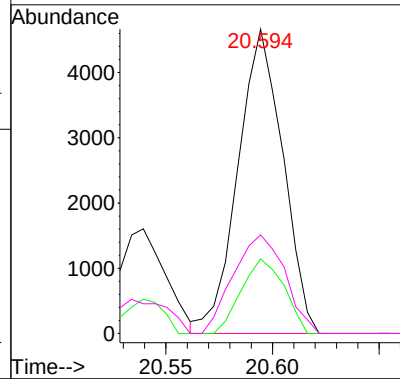
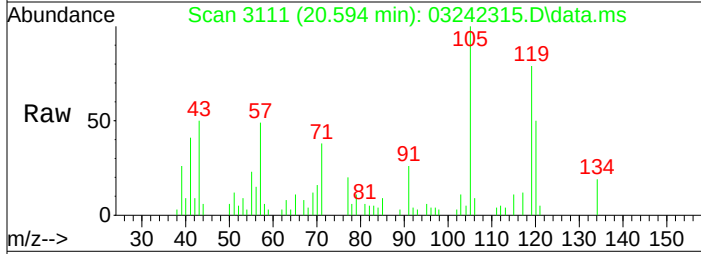
Tgt Ion:105	Resp:	28104
Ion Ratio	Lower	Upper
105	100	
120	47.1	37.2 77.2





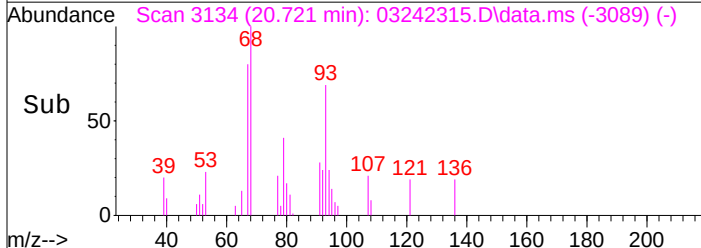
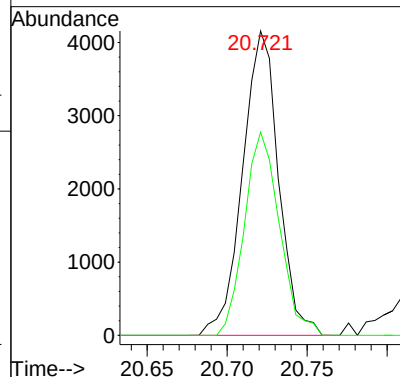
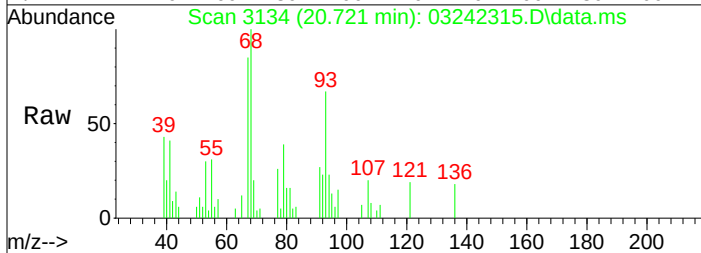
#88
 4-Isopropyltoluene (p-Cymene)
 Concen: 0.06 ng
 RT: 20.59 min Scan# 3111
 Delta R.T. -0.005 min
 Lab File: 03242315.D
 Acq: 24 Mar 2023 13:59

Tgt Ion: 119	Resp: 6839
Ion Ratio	Lower Upper
119 100	
134 23.2	7.5 47.5
91 37.3	3.7 43.7



#91
 d-Limonene
 Concen: 0.30 ng
 RT: 20.72 min Scan# 3134
 Delta R.T. -0.005 min
 Lab File: 03242315.D
 Acq: 24 Mar 2023 13:59

Tgt Ion: 68	Resp: 6507
Ion Ratio	Lower Upper
68 100	
93 64.9	49.6 89.6



Data File : I:\MS16\DATA\2023_03\24\03242315.D
 Acq On : 24 Mar 2023 13:59
 Sample : P2301250-041 (1000mL)
 Misc : S35-01312301

Vial: 3
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 26 20:31:14 2023

3/26/23

Quant Method : I:\MS16\METHODS\C16122022.M

Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD

QLast Update : Wed Dec 21 05:02:49 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.28	130	211920	12.500	ng	-0.02
16) 1,4-Difluorobenzene (C_2)	13.41	114	974392	12.500	ng	-0.01
19) Chlorobenzene-d5 (C_3)	17.72	54	217472	12.500	ng	0.00

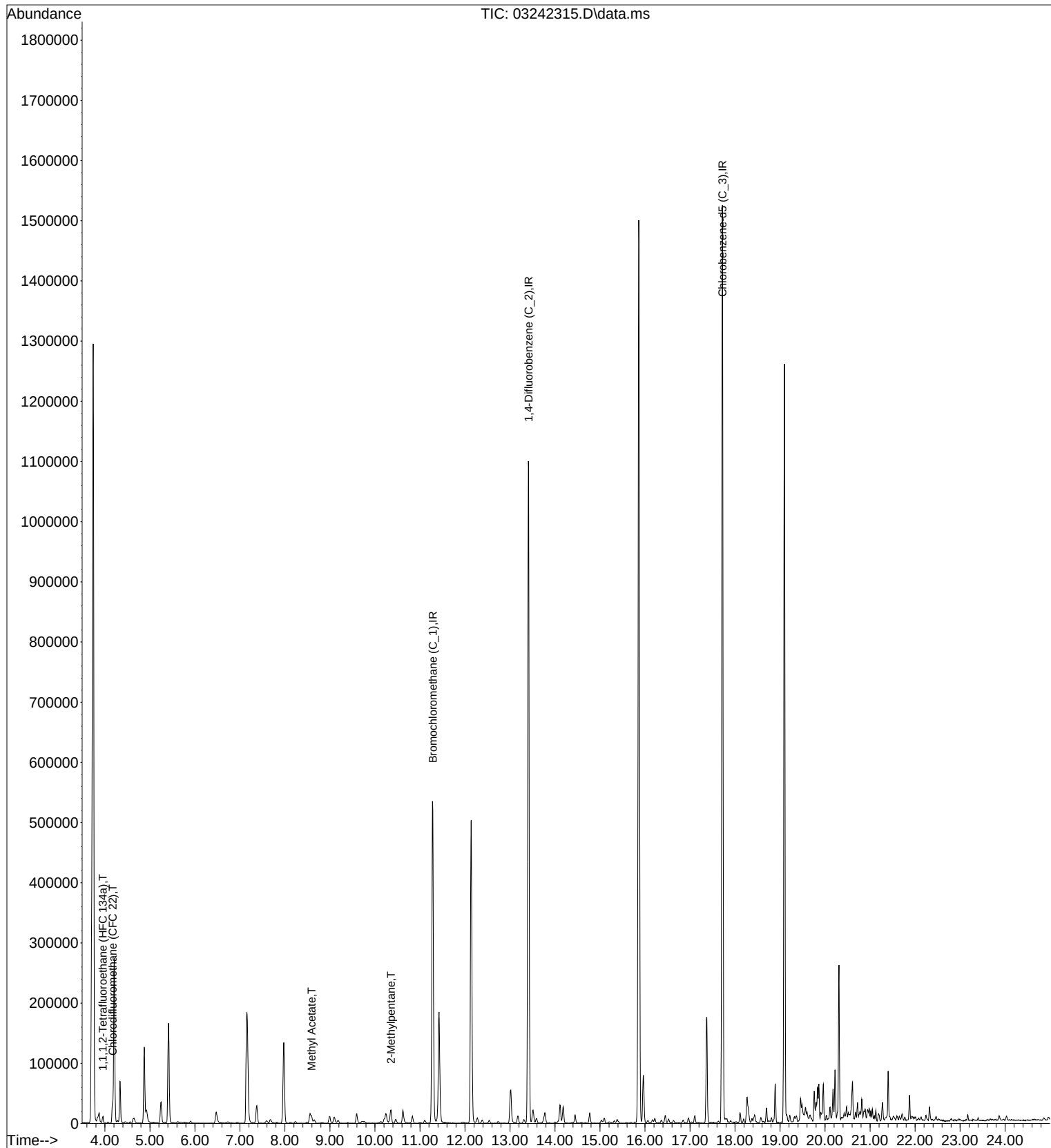
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.87	85	742	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.95	83	6141	0.366	ng	90
4) 1,1-Difluoroethane	4.07	65	497	N.D.		
5) Chlorodifluoromethane ...	4.17	67	2682	0.512	ng	84
6) 1-Chloro-1,1-Difluoroe...	4.63	65	2690	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	8.59	43	17627	0.336	ng	# 96
12) 2-Methylpentane	10.36	71	5336	0.256	ng	# 59
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	13.18	84	1377	N.D.		
17) 2,3-Dimethylpentane	13.59	56	3742	N.D.		
18) Dibromomethane	13.84	174	173	N.D.		
20) Methyl Cyclohexane	15.09	55	3344	N.D.		
21) 1,3-Dichloropropane	15.97	76	104	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	0.00	91	0	N.D.		
24) 1,2,3-Trichloropropane	18.70	75	116	N.D.		
25) Bromobenzene	19.36	77	57	N.D.		
26) 2-Chlorotoluene	19.67	91	5314	N.D.		
27) 4-Chlorotoluene	19.67	91	5314	N.D.		
28) Indane	20.78	117	1452	N.D.		
29) Indene	20.86	115	105	N.D.		
30) 1,2,4,5-Tetramethylben...	21.61	119	1892	N.D.		
31) 1,2,3,4-Tetramethylben...	21.64	119	2918	N.D.		
32) 1,2,3,5-Tetramethylben...	21.99	119	1798	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\24\03242315.D
Acq On : 24 Mar 2023 13:59
Sample : P2301250-041 (1000mL)
Misc : S35-01312301

Vial: 3
Operator: WA
Inst : GCMS-16

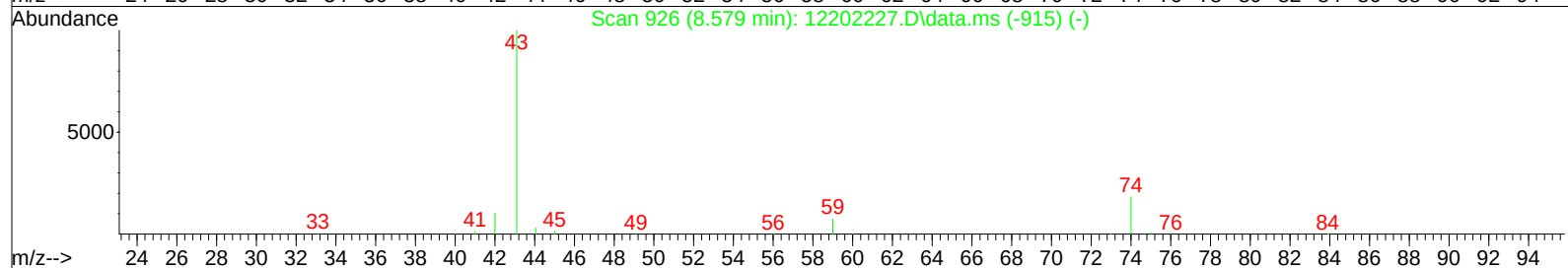
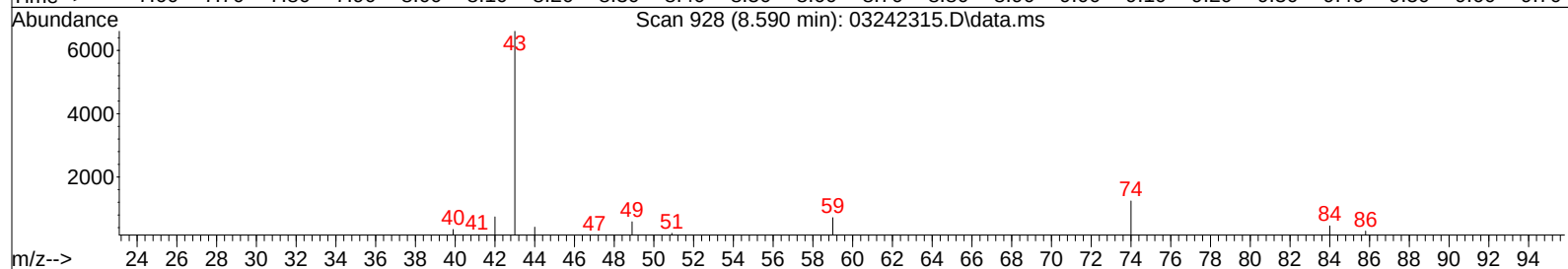
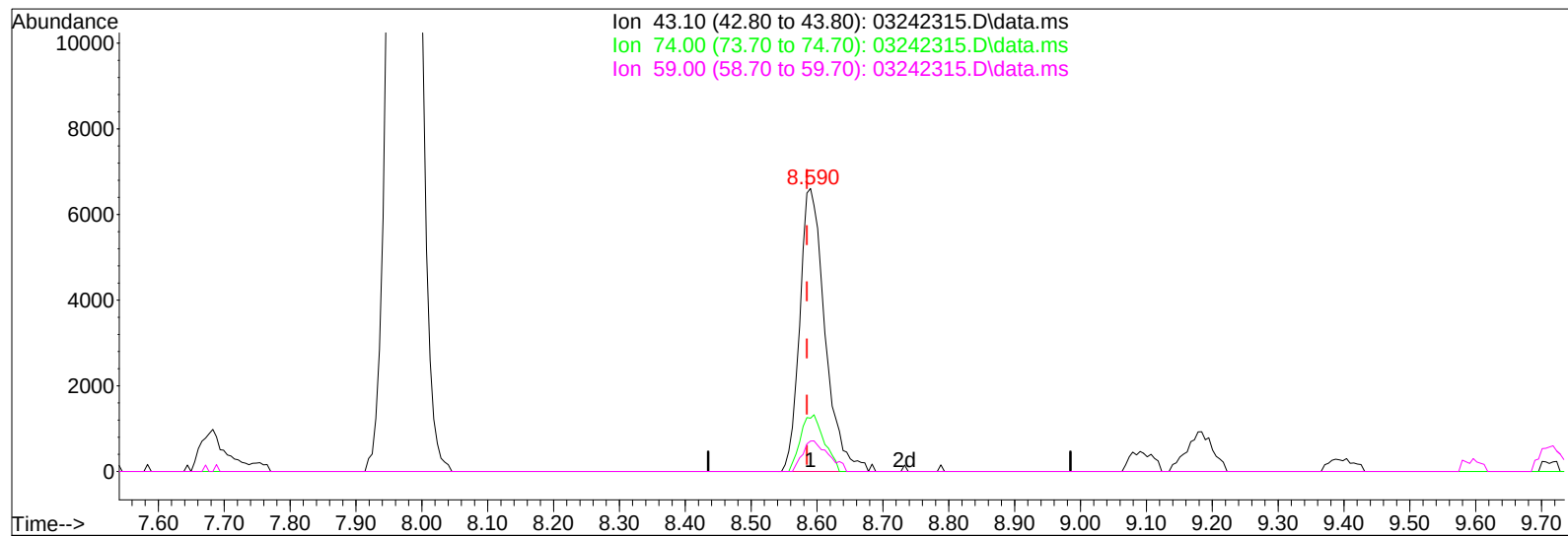
Quant Time: Mar 26 20:31:14 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



Data File : I:\MS16\DATA\2023_03\24\03242315.D
Acq On : 24 Mar 2023 13:59
Sample : P2301250-041 (1000mL)
Misc : S35-01312301

Vial: 3
Operator: WA
Inst : GCMS-16

Quant Time: Mar 26 20:27:31 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



TIC: 03242315.D\data.ms

(11) Methyl Acetate (T)

8.590min (+0.005) 0.34ng

response 17627

Ion	Exp%	Act%
43.10	100	100
74.00	18.10	18.65
59.00	7.20	11.03#
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG11A

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-042

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02215

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.11 Final Pressure (psig): 4.00

Container Dilution Factor: 1.38

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.9	0.73	0.12	0.58	0.15	0.024	
74-87-3	Chloromethane	0.29	0.29	0.12	0.14	0.14	0.057	
75-01-4	Vinyl Chloride	ND	0.15	0.079	ND	0.059	0.031	
74-83-9	Bromomethane	ND	0.29	0.10	ND	0.075	0.026	
75-00-3	Chloroethane	ND	0.29	0.091	ND	0.11	0.035	
67-64-1	Acetone	5.7	7.3	1.7	2.4	3.1	0.70	J
75-69-4	Trichlorofluoromethane	1.9	0.72	0.11	0.33	0.13	0.020	
75-35-4	1,1-Dichloroethene	ND	0.15	0.10	ND	0.038	0.026	
75-09-2	Methylene Chloride	0.41	0.73	0.21	0.12	0.21	0.060	J
76-13-1	Trichlorotrifluoroethane	0.50	0.75	0.10	0.066	0.097	0.014	J
75-15-0	Carbon Disulfide	ND	1.5	0.22	ND	0.47	0.071	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	0.10	ND	0.038	0.026	
75-34-3	1,1-Dichloroethane	ND	0.15	0.11	ND	0.038	0.027	
1634-04-4	Methyl tert-Butyl Ether	ND	0.75	0.087	ND	0.21	0.024	
78-93-3	2-Butanone (MEK)	1.0	1.4	0.15	0.34	0.49	0.051	J
156-59-2	cis-1,2-Dichloroethene	0.29	0.15	0.10	0.073	0.038	0.026	
67-66-3	Chloroform	0.24	0.15	0.098	0.049	0.031	0.020	
107-06-2	1,2-Dichloroethane	ND	0.15	0.081	ND	0.038	0.020	
71-55-6	1,1,1-Trichloroethane	0.35	0.15	0.091	0.065	0.028	0.017	
71-43-2	Benzene	1.0	0.15	0.11	0.32	0.048	0.033	
56-23-5	Carbon Tetrachloride	0.48	0.15	0.10	0.076	0.024	0.016	
110-82-7	Cyclohexane	ND	1.4	0.21	ND	0.42	0.060	
78-87-5	1,2-Dichloropropane	ND	0.15	0.091	ND	0.033	0.020	
75-27-4	Bromodichloromethane	ND	0.15	0.11	ND	0.023	0.016	
79-01-6	Trichloroethene	1.1	0.15	0.099	0.20	0.028	0.018	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG11A

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-042

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02215

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.11 Final Pressure (psig): 4.00

Container Dilution Factor: 1.38

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.75	0.11	ND	0.16	0.025	
108-10-1	4-Methyl-2-pentanone	0.19	1.5	0.10	0.047	0.37	0.025	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.70	0.15	ND	0.16	0.033	
79-00-5	1,1,2-Trichloroethane	ND	0.15	0.075	ND	0.028	0.014	
108-88-3	Toluene	1.6	0.73	0.090	0.43	0.19	0.024	
591-78-6	2-Hexanone	0.23	1.5	0.091	0.055	0.37	0.022	J
124-48-1	Dibromochloromethane	ND	0.15	0.097	ND	0.018	0.011	
106-93-4	1,2-Dibromoethane	ND	0.15	0.086	ND	0.020	0.011	
127-18-4	Tetrachloroethene	0.29	0.15	0.095	0.043	0.022	0.014	
108-90-7	Chlorobenzene	ND	0.73	0.098	ND	0.16	0.021	
100-41-4	Ethylbenzene	0.30	0.73	0.10	0.069	0.17	0.024	J
179601-23-1	m,p-Xylenes	0.99	1.5	0.19	0.23	0.35	0.044	J
75-25-2	Bromoform	ND	0.75	0.15	ND	0.072	0.015	
100-42-5	Styrene	ND	0.73	0.12	ND	0.17	0.028	
95-47-6	o-Xylene	0.43	0.73	0.11	0.10	0.17	0.024	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	0.10	ND	0.022	0.015	
98-82-8	Cumene	ND	0.75	0.11	ND	0.15	0.022	
541-73-1	1,3-Dichlorobenzene	ND	0.73	0.11	ND	0.12	0.018	
106-46-7	1,4-Dichlorobenzene	ND	0.73	0.11	ND	0.12	0.019	
95-50-1	1,2-Dichlorobenzene	ND	0.75	0.11	ND	0.12	0.018	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.5	0.14	ND	0.16	0.014	
120-82-1	1,2,4-Trichlorobenzene	ND	1.5	0.18	ND	0.20	0.024	
79-20-9	Methyl Acetate	0.35	0.69	0.33	0.12	0.23	0.11	J, X
108-87-2	Methylcyclohexane	ND	0.69	0.36	ND	0.17	0.089	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS16\DATA\2023_03\24\03242316.D
 Acq On : 24 Mar 2023 14:32
 Sample : P2301250-042 (1000mL)
 Misc : S35-01312301

Vial: 4
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 24 20:59:33 2023

3/26/23

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	207996	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	952003	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.72	54	213916	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	372942	13.483	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	107.84%	
57) Toluene-d8 (SS2)	15.86	98	1107344	11.824	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	94.56%	
73) Bromofluorobenzene (SS3)	19.10	174	342143	11.713	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	93.68%	

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	4.33	85	64688	2.081	ng	100
4) Chloromethane	4.61	50	6160	0.212	ng	94
5) 1,2-Dichloro-1,1,2,2-t...	4.89	135	1561	0.090	ng	88
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.32	54	1239	0.055	ng	# 73
8) Bromomethane	5.76	94	244	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.47	45	44204	2.208	ng	94
11) Acetonitrile	6.73	41	3376	0.067	ng	84
12) Acrolein	6.94	56	2158	0.152	ng	100
13) Acetone	7.14	58	63141	4.125	ng	# 58
14) Trichlorofluoromethane	7.37	101	38825	1.354	ng	99
15) 2-Propanol (Isopropanol)	7.68	45	12051	0.226	ng	97
16) Acrylonitrile	7.90	53	50	N.D.		
17) 1,1-Dichloroethene	8.34	96	308	N.D.		
18) 2-Methyl-2-Propanol (t...	8.60	59	1478	N.D.		
19) Methylene Chloride	8.56	84	5023	0.297	ng	84
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	9.00	151	5216	0.365	ng	90
22) Carbon Disulfide	8.83	76	2265	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	10.09	63	2086	0.067	ng	97
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	10.62	72	8124	0.732	ng	99
28) cis-1,2-Dichloroethene	11.11	61	5335	0.209	ng	100
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	11.42	61	57406	7.909	ng	97
31) n-Hexane	11.40	57	11649	0.321	ng	96
32) Chloroform	11.44	83	4768	0.172	ng	100
34) Tetrahydrofuran (THF)	11.93	72	182	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	12.26	62	1256	0.056	ng	85
38) 1,1,1-Trichloroethane	12.53	97	6611	0.257	ng	99
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.02	78	49279	0.735	ng	99
42) Carbon Tetrachloride	13.17	117	7530	0.346	ng	99
43) Cyclohexane	13.30	84	2851	0.101	ng	95
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	14.07	83	886	N.D.		
47) Trichloroethene	14.11	130	14083	0.772	ng	99
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	14.18	57	25927	0.287	ng	80
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS16\DATA\2023_03\24\03242316.D
 Acq On : 24 Mar 2023 14:32
 Sample : P2301250-042 (1000mL)
 Misc : S35-01312301

Vial: 4
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 24 20:59:33 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

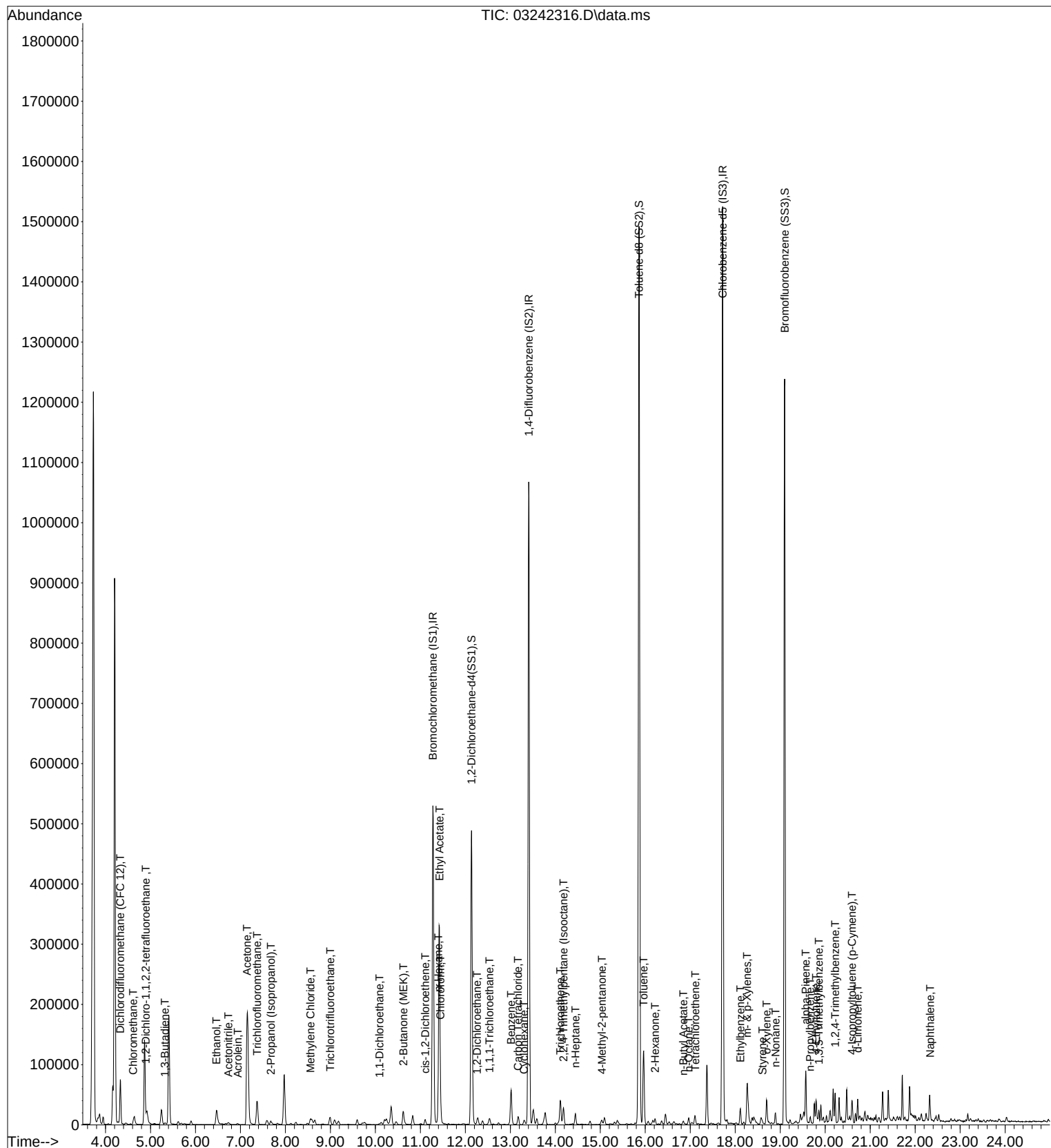
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.45	71	4122	0.210	ng	96
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	15.03	58	2161	0.139	ng #	60
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.96	91	96943	1.182	ng	99
59) 2-Hexanone	16.22	43	7095	0.164	ng	86
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.84	43	5000	0.101	ng	93
63) n-Octane	16.96	57	1825	0.087	ng	95
64) Tetrachloroethene	17.11	166	4443	0.213	ng	97
65) Chlorobenzene	17.76	112	135	N.D.		
66) Ethylbenzene	18.11	91	20094	0.217	ng	98
67) m- & p-Xylenes	18.26	91	52536	0.717	ng	99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.60	104	2812	0.055	ng	98
70) o-Xylene	18.70	91	22659	0.314	ng	97
71) n-Nonane	18.90	43	8053	0.157	ng	90
72) 1,1,2,2-Tetrachloroethane	18.76	83	296	N.D.		
74) Cumene	19.23	105	2483	N.D.		
75) alpha-Pinene	19.57	93	31386	1.346	ng	99
76) n-Propylbenzene	19.66	91	6073	0.055	ng	85
77) 3-Ethyltoluene	20.22	105	23337	No Calib	#	
78) 4-Ethyltoluene	19.80	105	7124	0.083	ng	93
79) 1,3,5-Trimethylbenzene	19.86	105	6878	0.089	ng	96
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.22	105	23337	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.22	105	23337	0.316	ng	84
83) n-Decane	20.21	58	662	No Calib	#	
84) Benzyl Chloride	20.36	91	112	N.D.		
85) 1,3-Dichlorobenzene	20.41	146	281	N.D.		
86) 1,4-Dichlorobenzene	20.41	146	281	N.D.		
87) sec-Butylbenzene	20.46	105	1080	N.D.		
88) 4-Isopropyltoluene (p-...	20.59	119	11400	0.105	ng	89
89) 1,2,3-Trimethylbenzene	20.22	105	23337	No Calib	#	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	20.72	68	8515	0.404	ng	98
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	21.40	58	783	No Calib	#	
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	22.33	128	12229	0.135	ng	99
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	18.19	55	1071	No Calib	#	
99) tert-Butylbenzene	20.22	119	3137	N.D.		
100) n-Butylbenzene	20.96	91	2712	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\24\03242316.D
Acq On : 24 Mar 2023 14:32
Sample : P2301250-042 (1000mL)
Misc : S35-01312301

Vial: 4
Operator: WA
Inst : GCMS-16

Quant Time: Mar 24 20:59:33 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



Data File : I:\MS16\DATA\2023_03\24\03242316.D
 Acq On : 24 Mar 2023 14:32
 Sample : P2301250-042 (1000mL)
 Misc : S35-01312301

Vial: 4
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 24 20:59:33 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:TO15B.M

3/24/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	207996	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	952003	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.72	54	213916	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	372942	13.483	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	107.84%	
57) Toluene-d8 (SS2)	15.86	98	1107344	11.824	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	94.56%	
73) Bromofluorobenzene (SS3)	19.10	174	342143	11.713	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	93.68%	

Target Compounds

						Qvalue
3) Dichlorodifluoromethan...	4.33	85	64688	2.081	ng	100
4) Chloromethane	4.61	50	6160	0.212	ng	94
5) 1,2-Dichloro-1,1,2,2-t...	4.89	135	1561	0.090	ng	88
7) 1,3-Butadiene	5.32	54	1239	0.055	ng	# 73
10) Ethanol	6.47	45	44204	2.208	ng	94
11) Acetonitrile	6.73	41	3376	0.067	ng	84
12) Acrolein	6.94	56	2158	0.152	ng	100
13) Acetone	7.14	58	63141	4.125	ng	# 58
14) Trichlorofluoromethane	7.37	101	38825	1.354	ng	99
15) 2-Propanol (Isopropanol)	7.68	45	12051	0.226	ng	97
19) Methylene Chloride	8.56	84	5023	0.297	ng	84
21) Trichlorotrifluoroethane	9.00	151	5216	0.365	ng	90
24) 1,1-Dichloroethane	10.09	63	2086	0.067	ng	97
27) 2-Butanone (MEK)	10.62	72	8124	0.732	ng	99
28) cis-1,2-Dichloroethene	11.11	61	5335	0.209	ng	100
30) Ethyl Acetate	11.42	61	57406	7.909	ng	97
31) n-Hexane	11.40	57	11649	0.321	ng	96
32) Chloroform	11.44	83	4768	0.172	ng	100
36) 1,2-Dichloroethane	12.26	62	1256	0.056	ng	85
38) 1,1,1-Trichloroethane	12.53	97	6611	0.257	ng	99
41) Benzene	13.02	78	49279	0.735	ng	99
42) Carbon Tetrachloride	13.17	117	7530	0.346	ng	99
43) Cyclohexane	13.30	84	2851	0.101	ng	95
47) Trichloroethene	14.11	130	14083	0.772	ng	99
49) 2,2,4-Trimethylpentane...	14.18	57	25927	0.287	ng	80
51) n-Heptane	14.45	71	4122	0.210	ng	96
53) 4-Methyl-2-pentanone	15.03	58	2161	0.139	ng	# 60
58) Toluene	15.96	91	96943	1.182	ng	99
59) 2-Hexanone	16.22	43	7095	0.164	ng	86
62) n-Butyl Acetate	16.84	43	5000	0.101	ng	93
63) n-Octane	16.96	57	1825	0.087	ng	95
64) Tetrachloroethene	17.11	166	4443	0.213	ng	97
66) Ethylbenzene	18.11	91	20094	0.217	ng	98
67) m- & p-Xylenes	18.26	91	52536	0.717	ng	99
69) Styrene	18.60	104	2812	0.055	ng	98
70) o-Xylene	18.70	91	22659	0.314	ng	97
71) n-Nonane	18.90	43	8053	0.157	ng	90
75) alpha-Pinene	19.57	93	31386	1.346	ng	99
76) n-Propylbenzene	19.66	91	6073	0.055	ng	85
78) 4-Ethyltoluene	19.80	105	7124	0.083	ng	93
79) 1,3,5-Trimethylbenzene	19.86	105	6878	0.089	ng	96
82) 1,2,4-Trimethylbenzene	20.22	105	23337	0.316	ng	84
88) 4-Isopropyltoluene (p-...	20.59	119	11400	0.105	ng	89
91) d-Limonene	20.72	68	8515	0.404	ng	98
95) Naphthalene	22.33	128	12229	0.135	ng	99

Data File : I:\MS16\DATA\2023_03\24\03242316.D
Acq On : 24 Mar 2023 14:32
Sample : P2301250-042 (1000mL)
Misc : S35-01312301

Vial: 4
Operator: WA
Inst : GCMS-16

Quant Time: Mar 24 20:59:33 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M

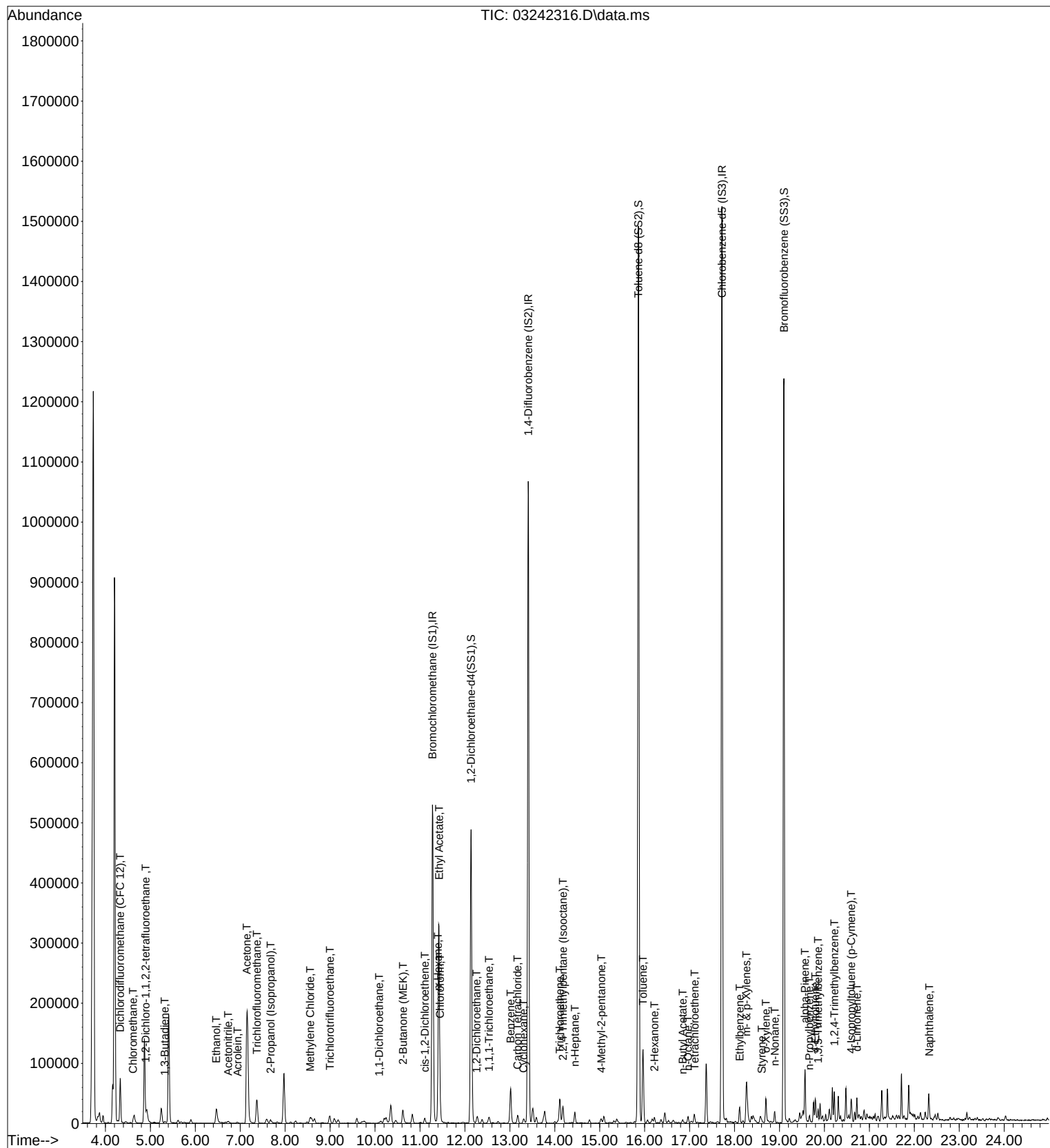
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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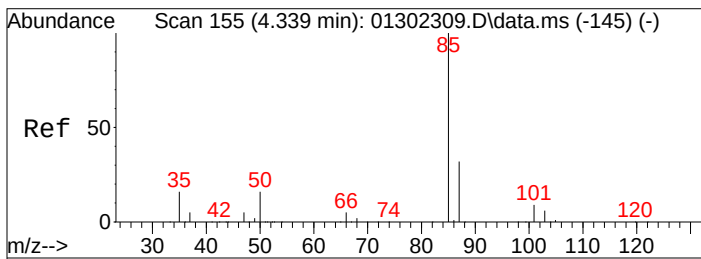
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS16\DATA\2023_03\24\03242316.D
Acq On : 24 Mar 2023 14:32
Sample : P2301250-042 (1000mL)
Misc : S35-01312301

Vial: 4
Operator: WA
Inst : GCMS-16

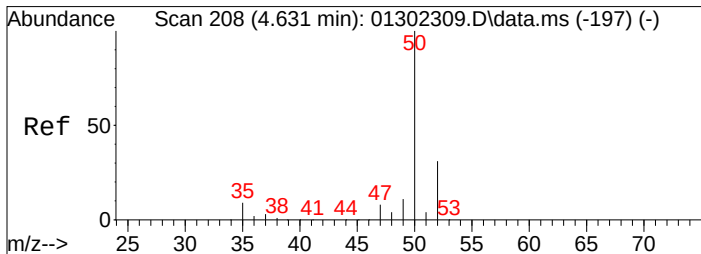
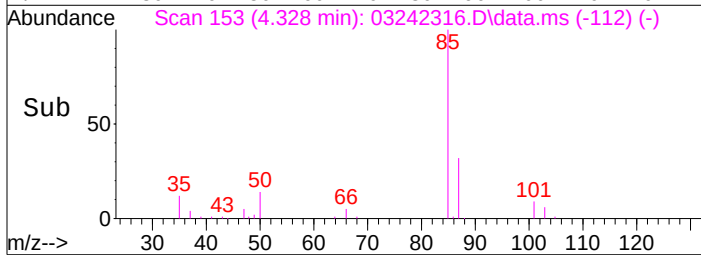
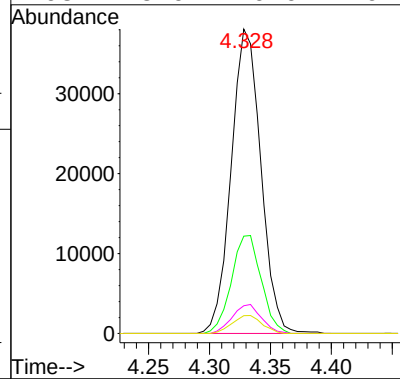
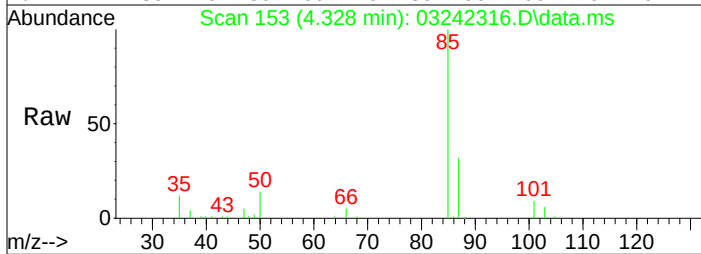
Quant Time: Mar 24 20:59:33 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M





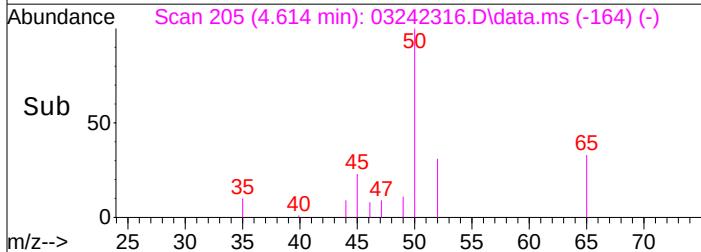
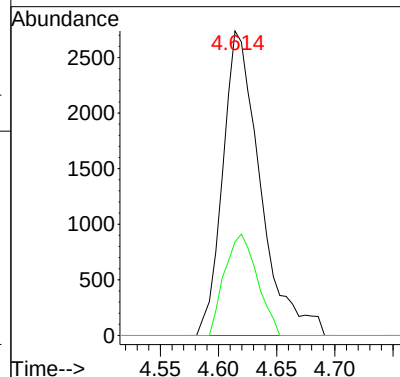
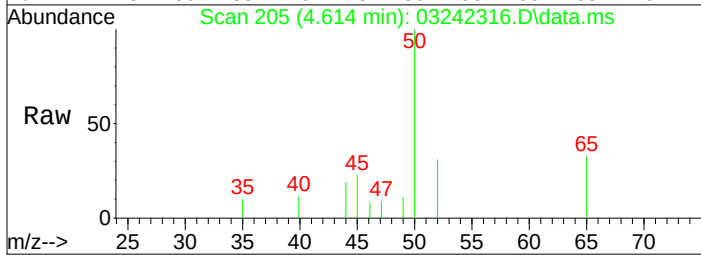
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 2.08 ng
 RT: 4.33 min Scan# 153
 Delta R.T. -0.022 min
 Lab File: 03242316.D
 Acq: 24 Mar 2023 14:32

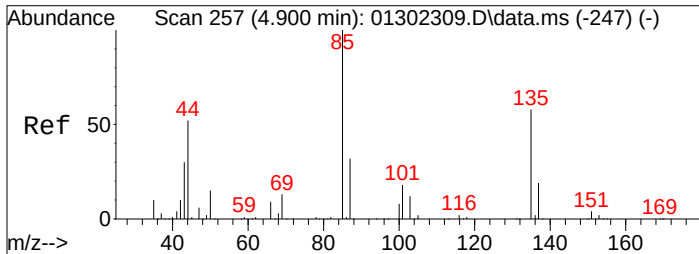
Tgt Ion: 85 Resp: 64688
 Ion Ratio Lower Upper
 85 100
 87 32.1 12.1 52.1
 101 9.3 0.0 29.3
 103 5.9 0.0 26.0



#4
 Chloromethane
 Concen: 0.21 ng
 RT: 4.61 min Scan# 205
 Delta R.T. -0.022 min
 Lab File: 03242316.D
 Acq: 24 Mar 2023 14:32

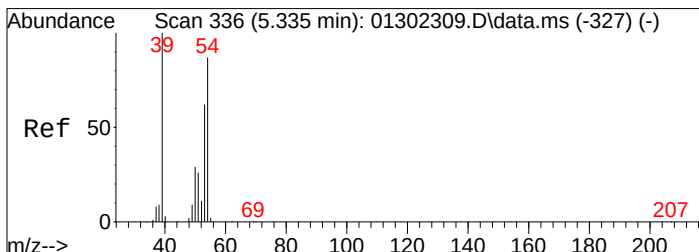
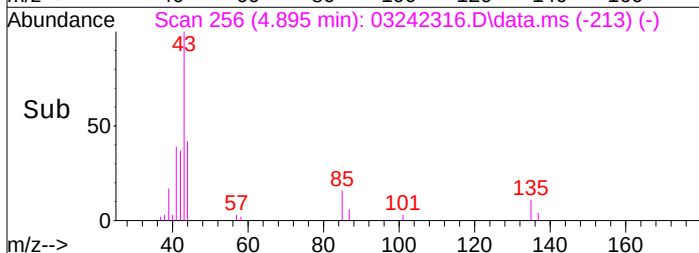
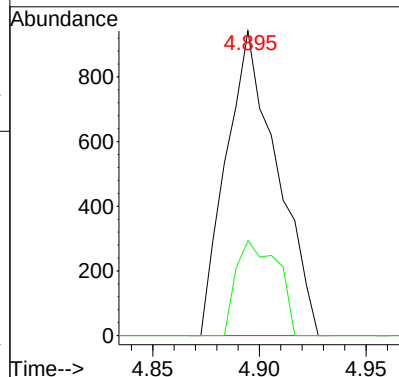
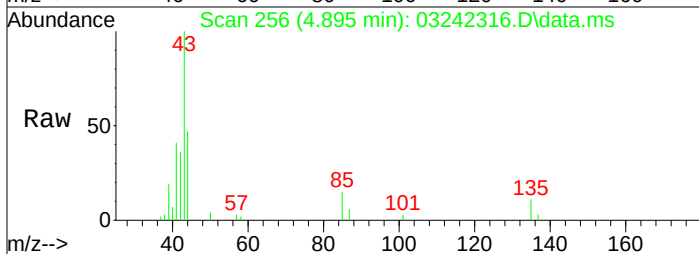
Tgt Ion: 50 Resp: 6160
 Ion Ratio Lower Upper
 50 100
 52 28.8 12.2 52.2





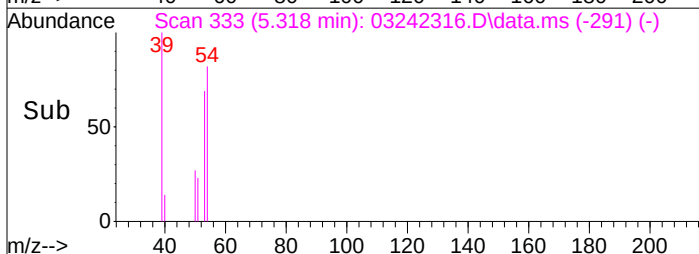
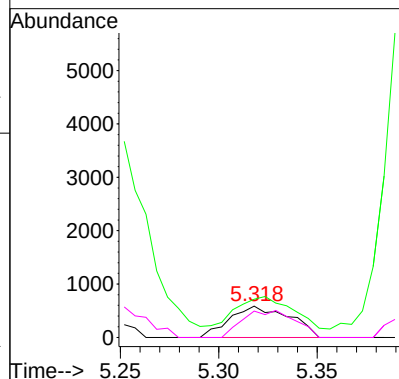
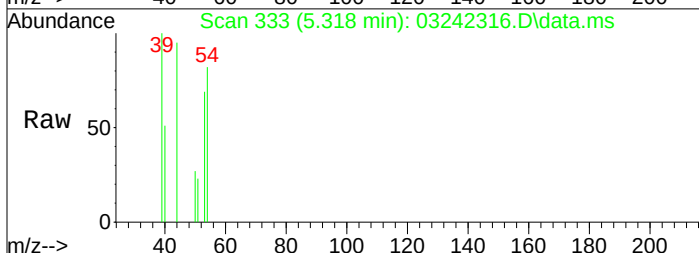
#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.09 ng
 RT: 4.89 min Scan# 256
 Delta R.T. -0.011 min
 Lab File: 03242316.D
 Acq: 24 Mar 2023 14:32

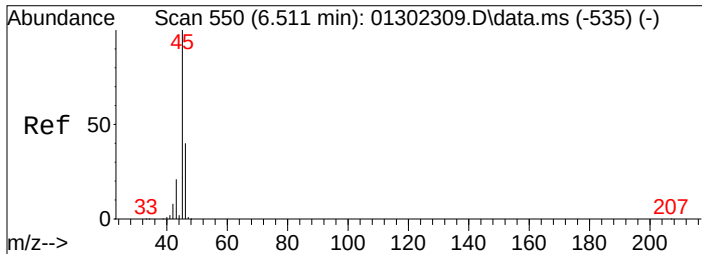
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 Ion Ratio Lower Upper
 135 100
 137 25.5 12.0 52.0



#7
 1,3-Butadiene
 Concen: 0.05 ng
 RT: 5.32 min Scan# 333
 Delta R.T. -0.016 min
 Lab File: 03242316.D
 Acq: 24 Mar 2023 14:32

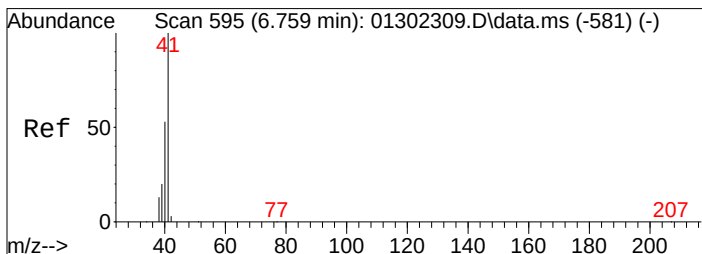
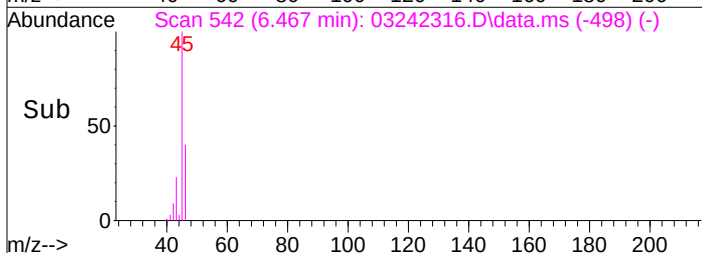
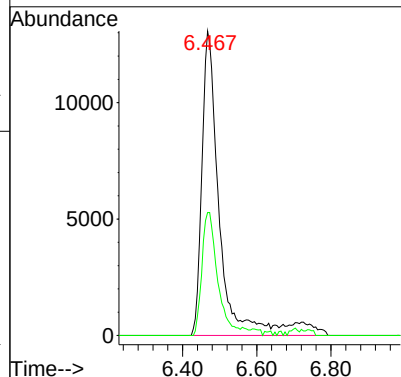
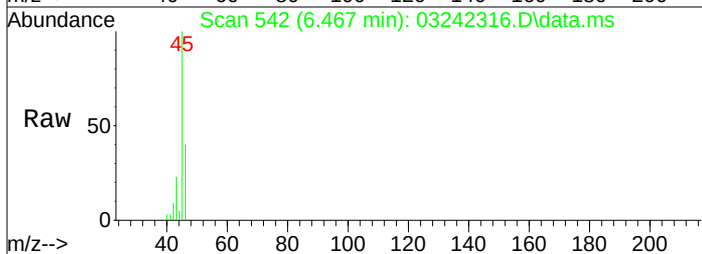
Tgt Ion: 54 Resp: 1239
 Ion Ratio Lower Upper
 54 100
 39 146.7 84.6 124.6#
 53 75.6 51.1 91.1





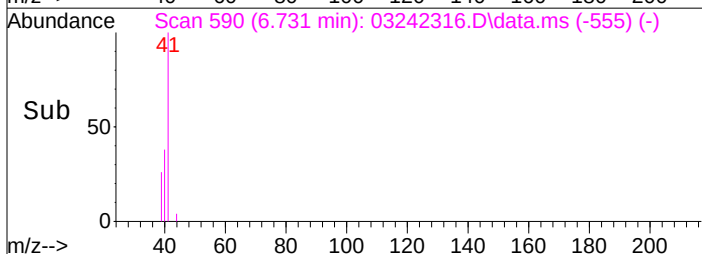
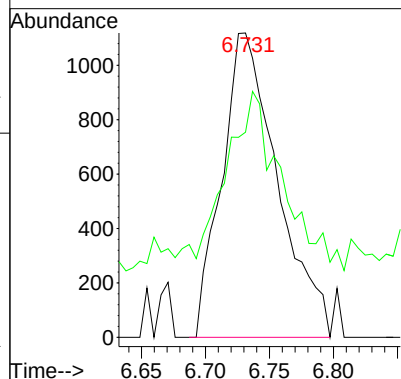
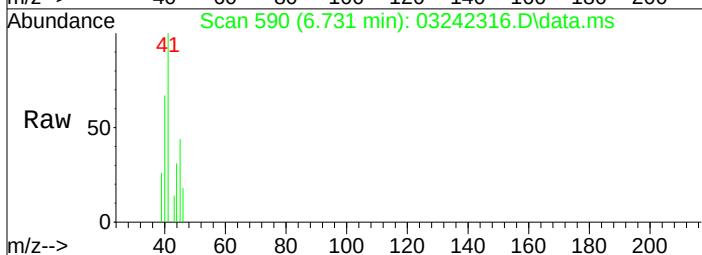
#10
Ethanol
Concen: 2.21 ng
RT: 6.47 min Scan# 542
Delta R.T. -0.011 min
Lab File: 03242316.D
Acq: 24 Mar 2023 14:32

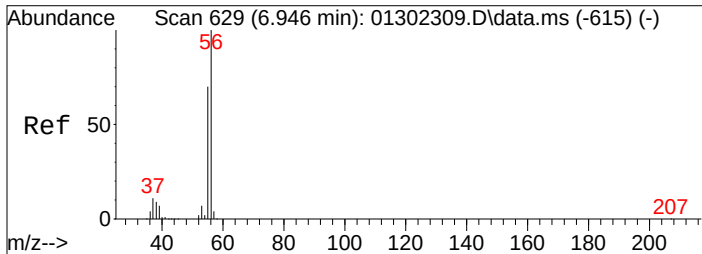
Tgt Ion: 45 Resp: 44204
Ion Ratio Lower Upper
45 100
46 37.0 20.5 60.5



#11
Acetonitrile
Concen: 0.07 ng
RT: 6.73 min Scan# 590
Delta R.T. -0.006 min
Lab File: 03242316.D
Acq: 24 Mar 2023 14:32

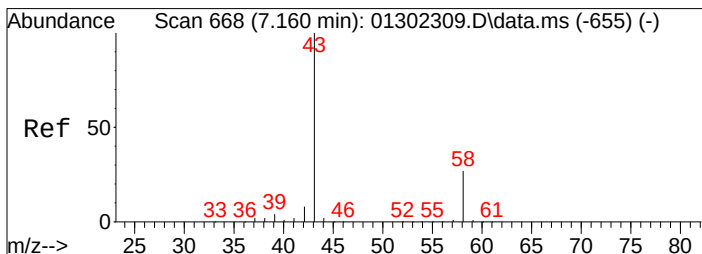
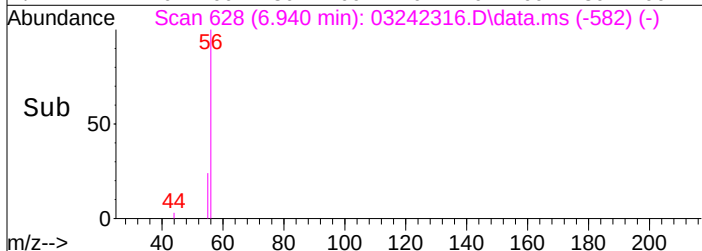
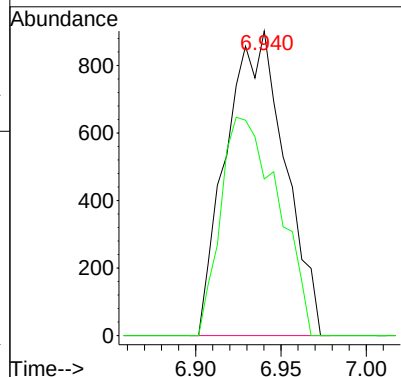
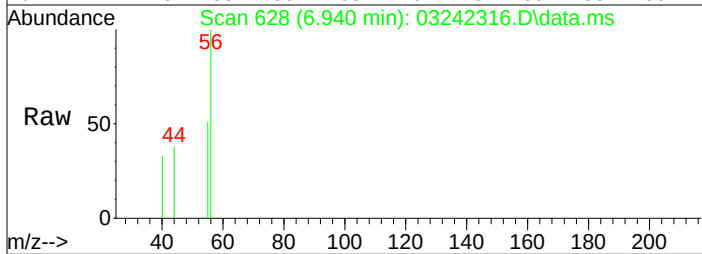
Tgt Ion: 41 Resp: 3376
Ion Ratio Lower Upper
41 100
40 63.7 32.4 72.4





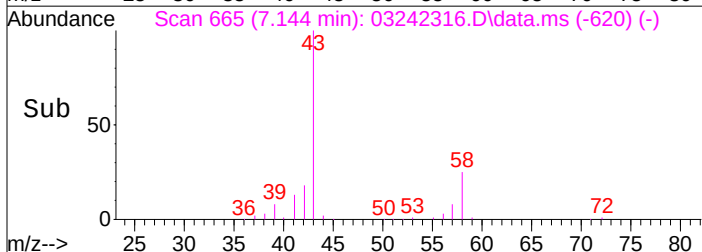
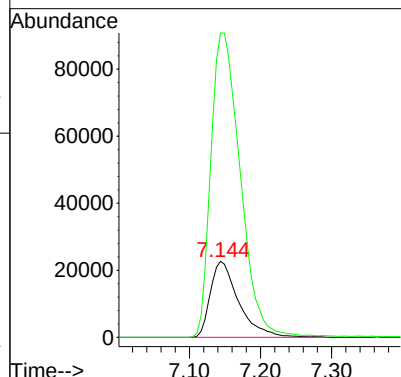
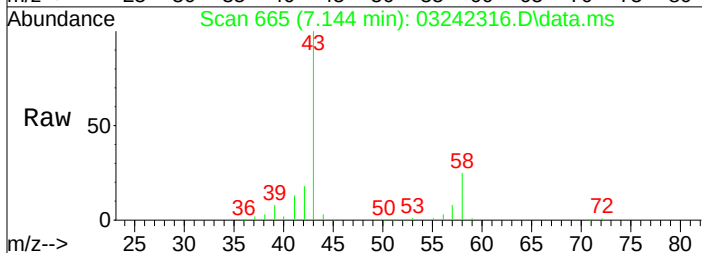
#12
Acrolein
Concen: 0.15 ng
RT: 6.94 min Scan# 628
Delta R.T. 0.005 min
Lab File: 03242316.D
Acq: 24 Mar 2023 14:32

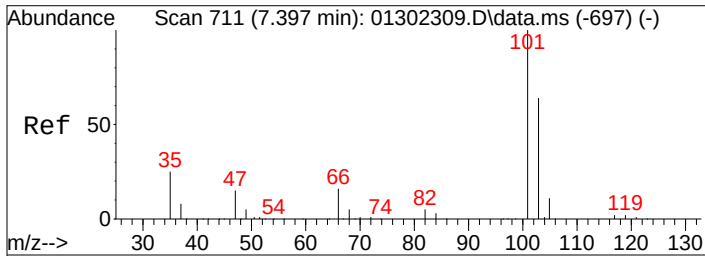
Tgt Ion: 56 Resp: 2158
Ion Ratio Lower Upper
56 100
55 70.0 49.9 89.9



#13
Acetone
Concen: 4.12 ng
RT: 7.14 min Scan# 665
Delta R.T. -0.000 min
Lab File: 03242316.D
Acq: 24 Mar 2023 14:32

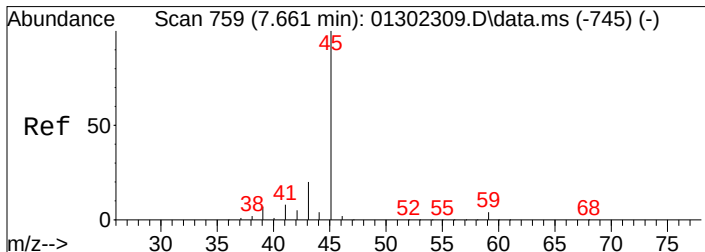
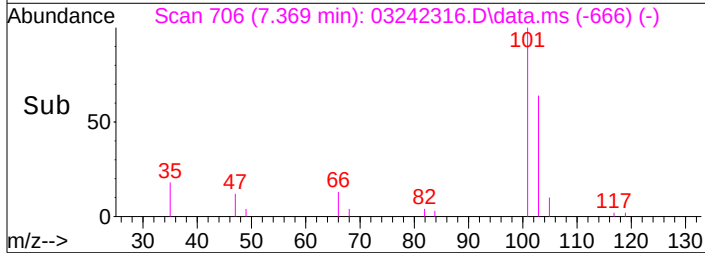
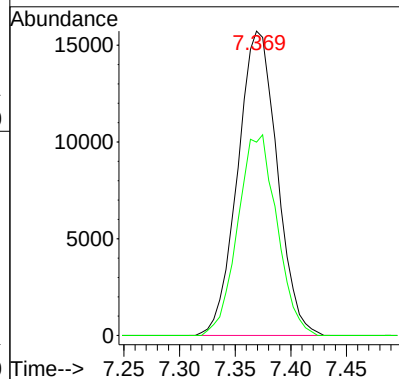
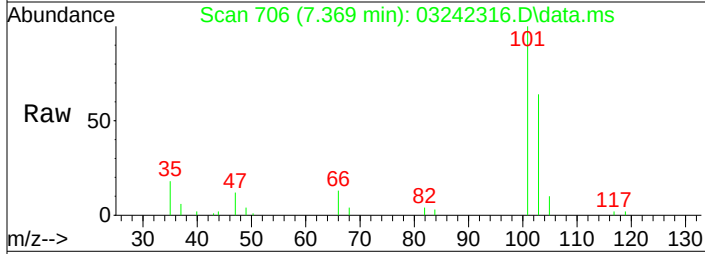
Tgt Ion: 58 Resp: 63141
Ion Ratio Lower Upper
58 100
43 415.0 298.5 358.5#





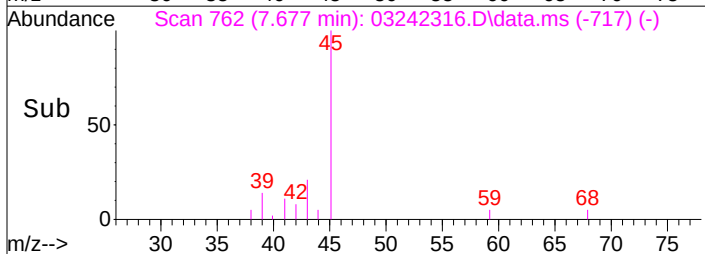
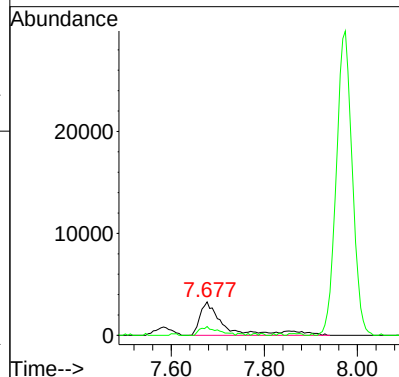
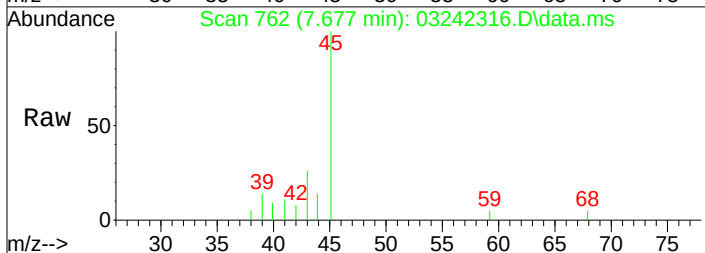
#14
 Trichlorofluoromethane
 Concen: 1.35 ng
 RT: 7.37 min Scan# 706
 Delta R.T. -0.027 min
 Lab File: 03242316.D
 Acq: 24 Mar 2023 14:32

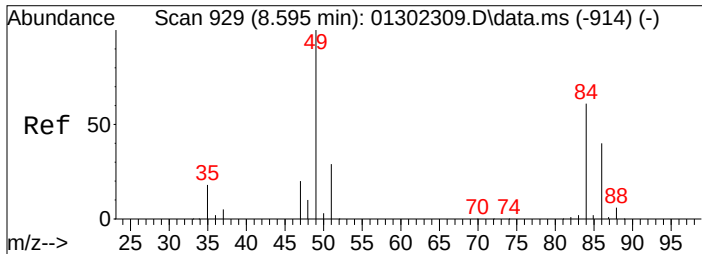
Tgt Ion: 101 Resp: 38825
 Ion Ratio Lower Upper
 101 100
 103 65.5 44.8 84.8



#15
 2-Propanol (Isopropanol)
 Concen: 0.23 ng
 RT: 7.68 min Scan# 762
 Delta R.T. -0.003 min
 Lab File: 03242316.D
 Acq: 24 Mar 2023 14:32

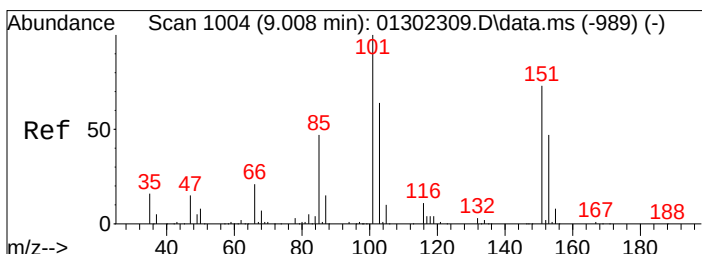
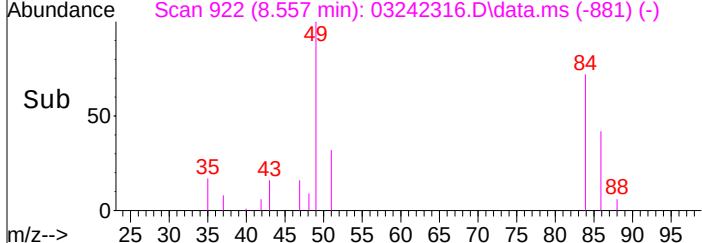
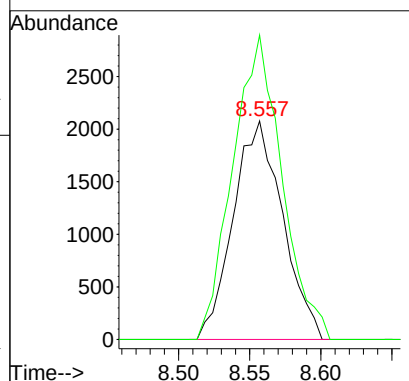
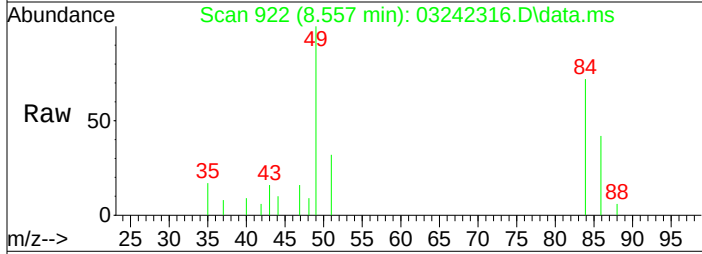
Tgt Ion: 45 Resp: 12051
 Ion Ratio Lower Upper
 45 100
 43 19.1 0.0 37.9





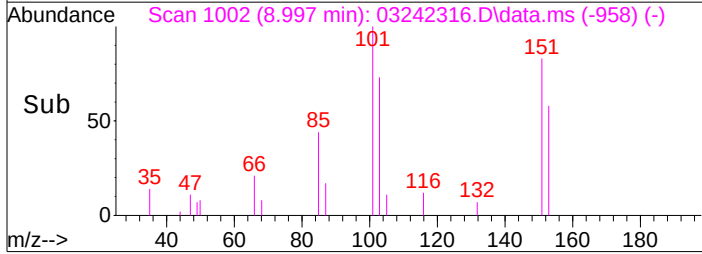
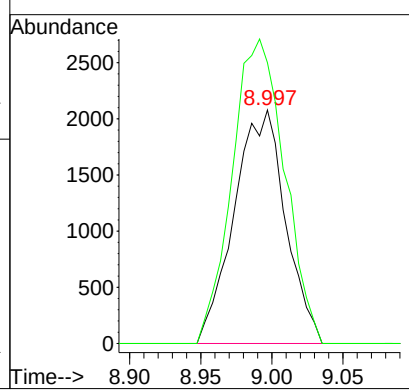
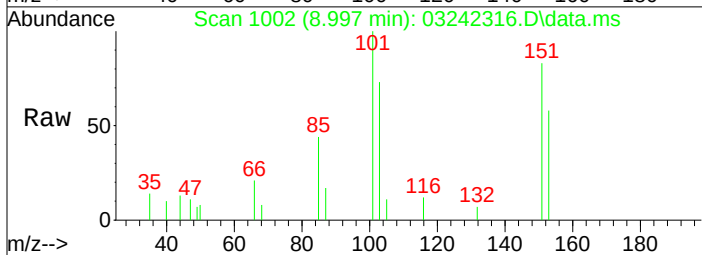
#19
Methylene Chloride
 Concen: 0.30 ng
 RT: 8.56 min Scan# 922
 Delta R.T. -0.022 min
 Lab File: 03242316.D
 Acq: 24 Mar 2023 14:32

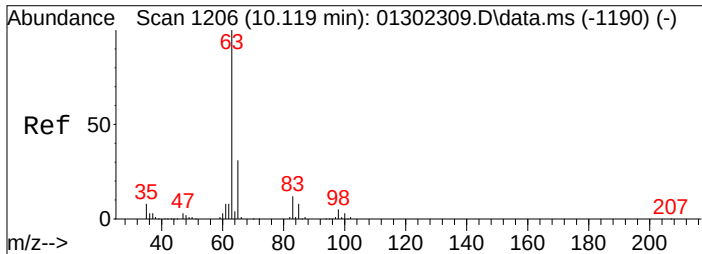
Tgt Ion:	84	Resp:	5023
Ion Ratio		Lower	Upper
84	100		
49	138.5	135.0	185.0



#21
Trichlorotrifluoroethane
 Concen: 0.37 ng
 RT: 9.00 min Scan# 1002
 Delta R.T. -0.005 min
 Lab File: 03242316.D
 Acq: 24 Mar 2023 14:32

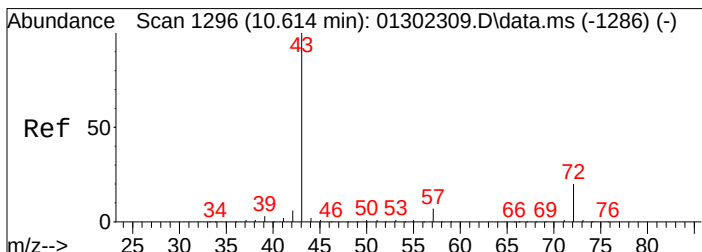
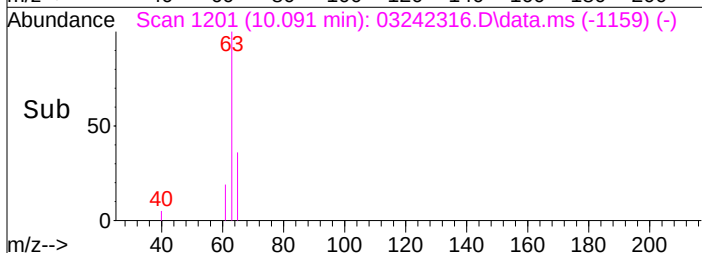
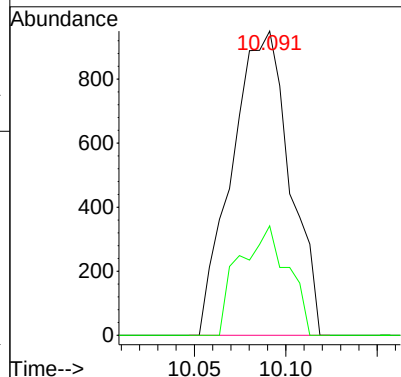
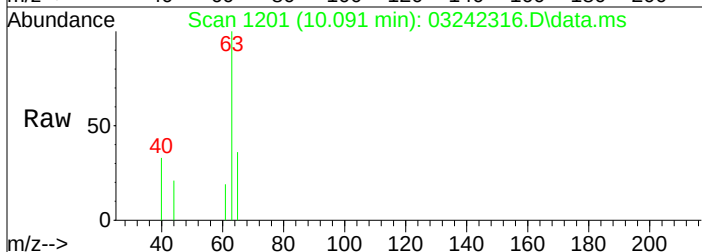
Tgt Ion:	151	Resp:	5216
Ion Ratio		Lower	Upper
151	100		
101	133.2	101.5	141.5





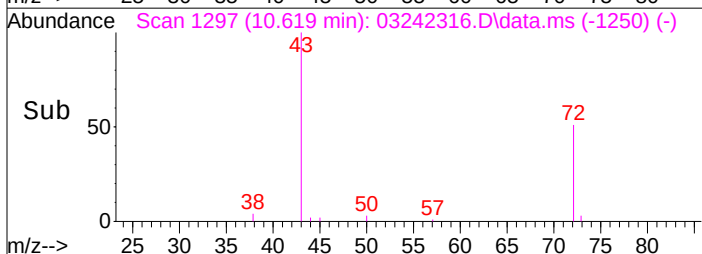
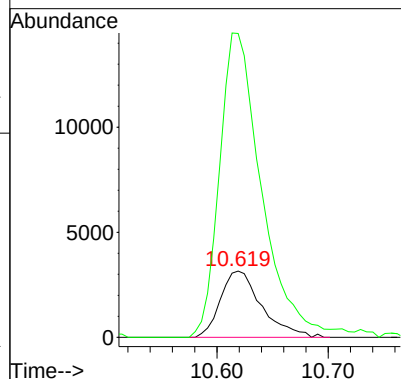
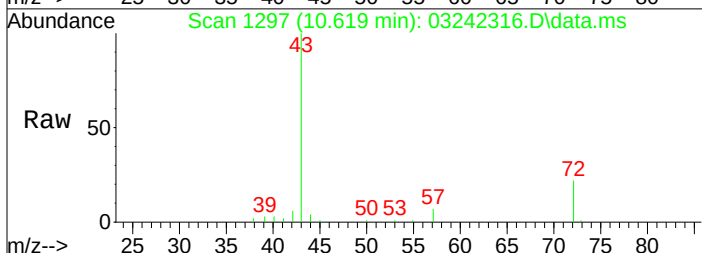
#24
 1,1-Dichloroethane
 Concen: 0.07 ng
 RT: 10.09 min Scan# 1201
 Delta R.T. -0.016 min
 Lab File: 03242316.D
 Acq: 24 Mar 2023 14:32

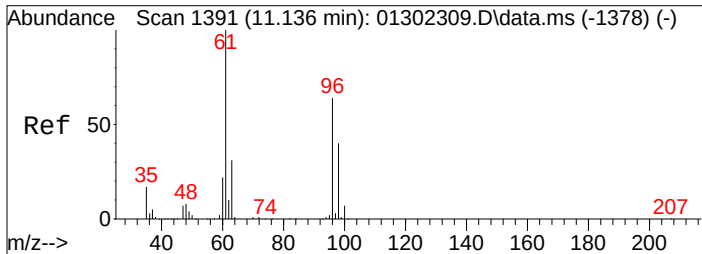
Tgt Ion: 63 Resp: 2086
 Ion Ratio Lower Upper
 63 100
 65 30.2 11.7 51.7



#27
 2-Butanone (MEK)
 Concen: 0.73 ng
 RT: 10.62 min Scan# 1297
 Delta R.T. 0.011 min
 Lab File: 03242316.D
 Acq: 24 Mar 2023 14:32

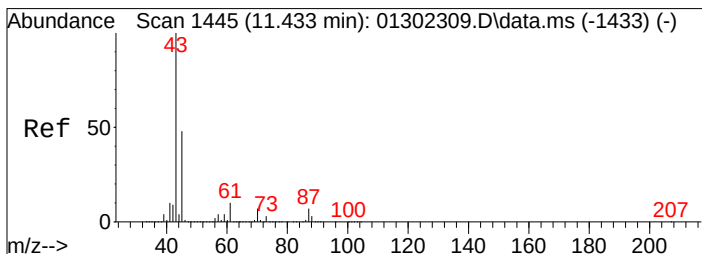
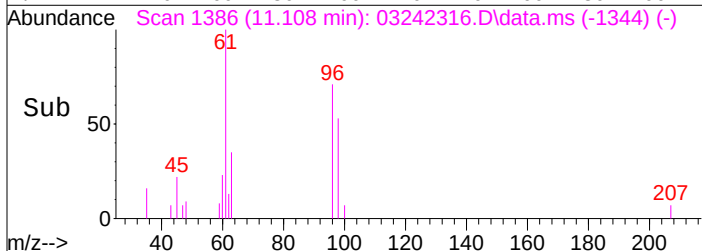
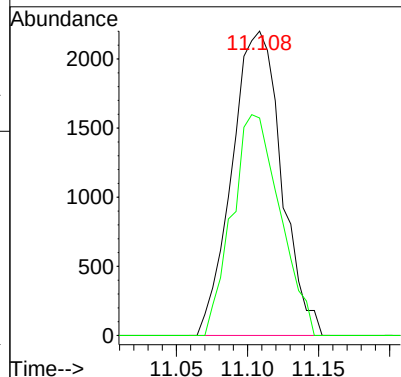
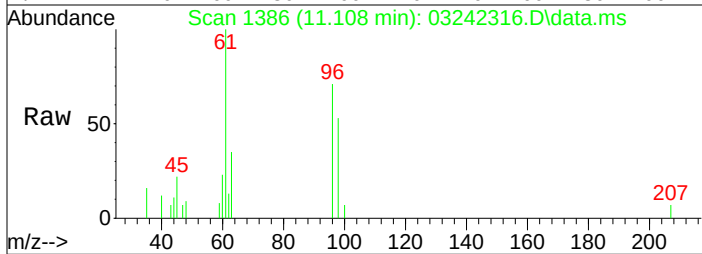
Tgt Ion: 72 Resp: 8124
 Ion Ratio Lower Upper
 72 100
 43 471.3 449.4 489.4





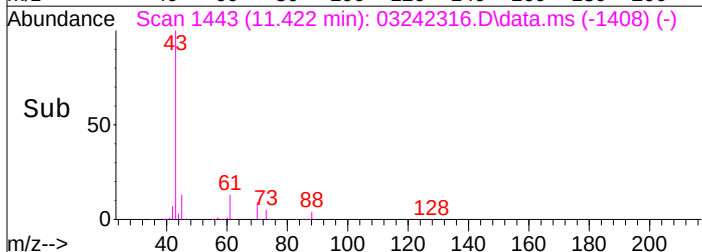
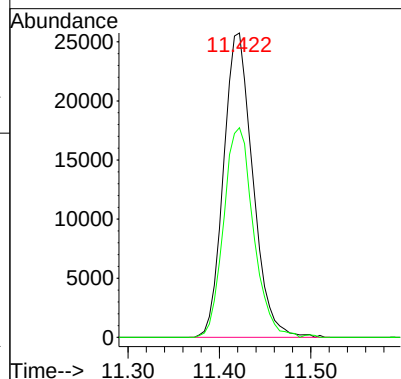
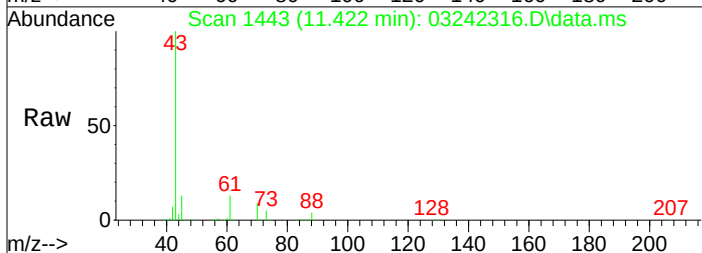
#28
 cis-1,2-Dichloroethene
 Concen: 0.21 ng
 RT: 11.11 min Scan# 1386
 Delta R.T. -0.017 min
 Lab File: 03242316.D
 Acq: 24 Mar 2023 14:32

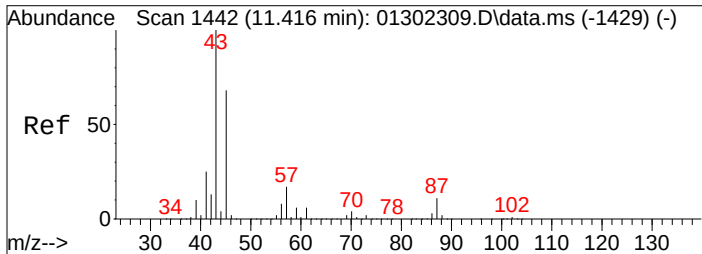
Tgt Ion: 61 Resp: 5335
 Ion Ratio Lower Upper
 61 100
 96 70.2 49.9 89.9



#30
 Ethyl Acetate
 Concen: 7.91 ng
 RT: 11.42 min Scan# 1443
 Delta R.T. -0.005 min
 Lab File: 03242316.D
 Acq: 24 Mar 2023 14:32

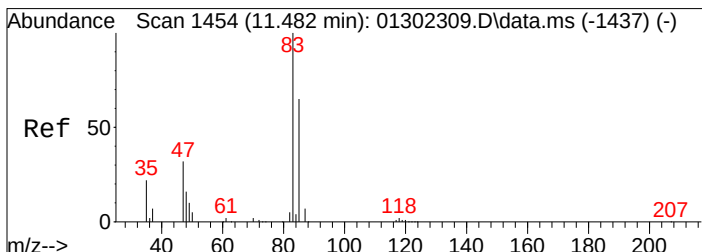
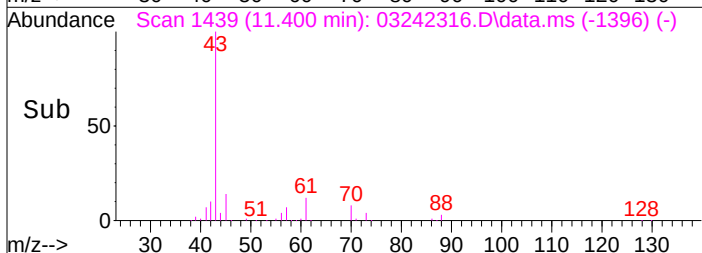
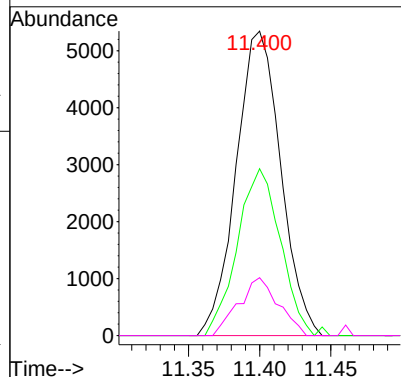
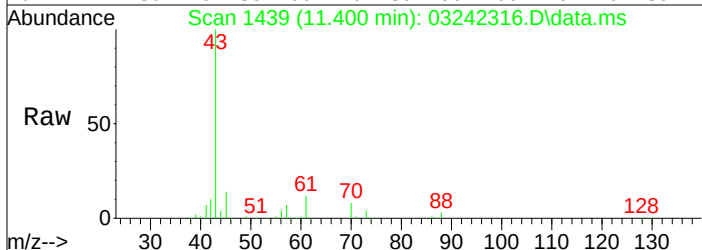
Tgt Ion: 61 Resp: 57406
 Ion Ratio Lower Upper
 61 100
 70 70.1 52.8 92.8





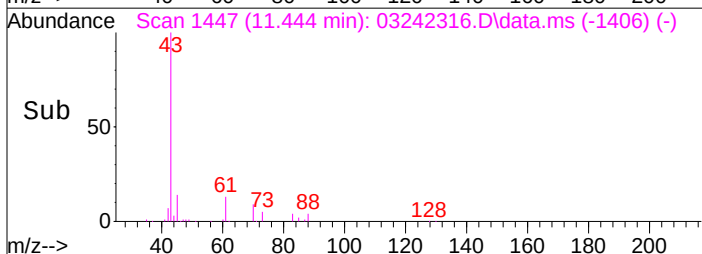
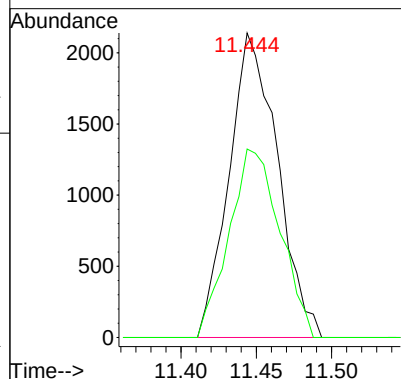
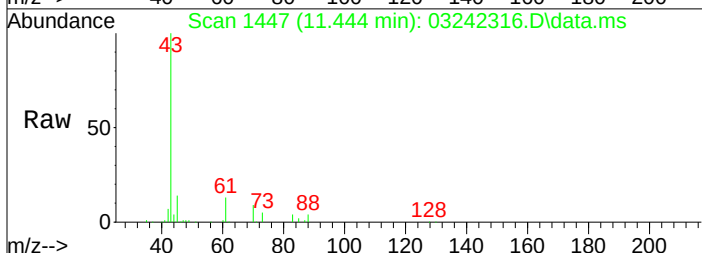
#31
n-Hexane
Concen: 0.32 ng
RT: 11.40 min Scan# 1439
Delta R.T. -0.011 min
Lab File: 03242316.D
Acq: 24 Mar 2023 14:32

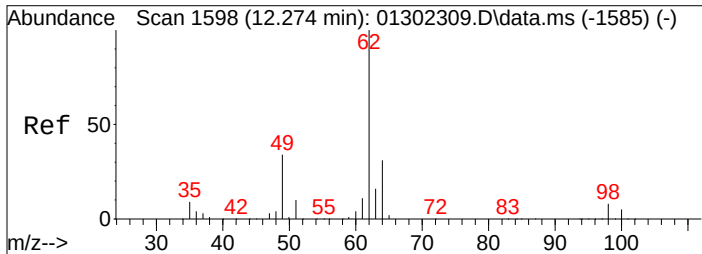
Tgt Ion:	57	Resp:	11649
Ion Ratio		Lower	Upper
57	100		
56	53.1	39.9	59.9
86	17.0	12.3	18.5



#32
Chloroform
Concen: 0.17 ng
RT: 11.44 min Scan# 1447
Delta R.T. -0.022 min
Lab File: 03242316.D
Acq: 24 Mar 2023 14:32

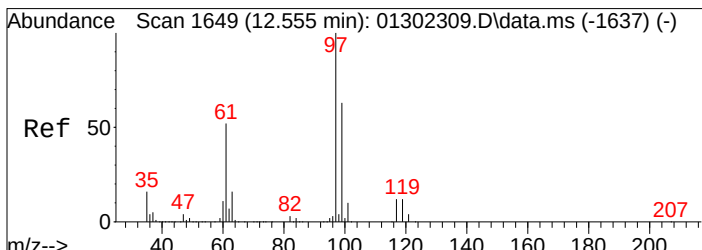
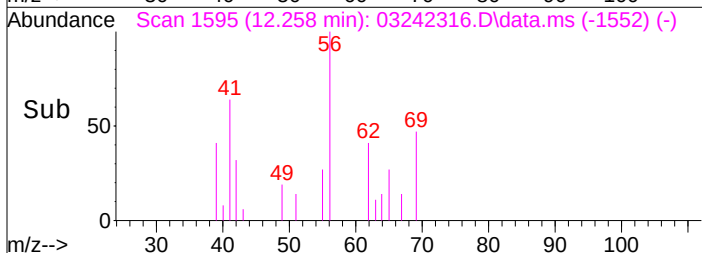
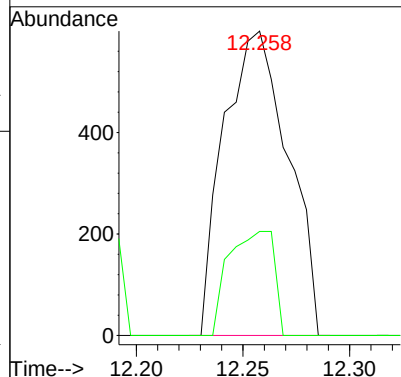
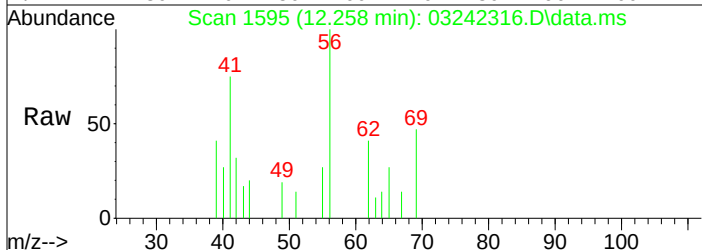
Tgt Ion:	83	Resp:	4768
Ion Ratio		Lower	Upper
83	100		
85	65.1	45.5	85.5





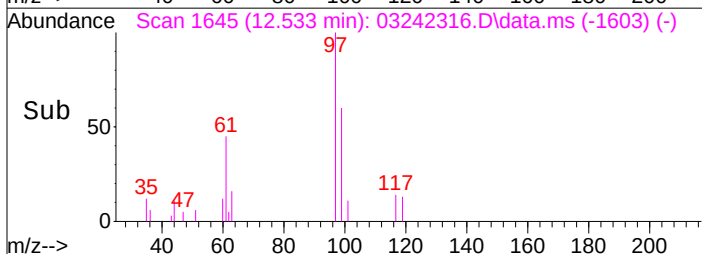
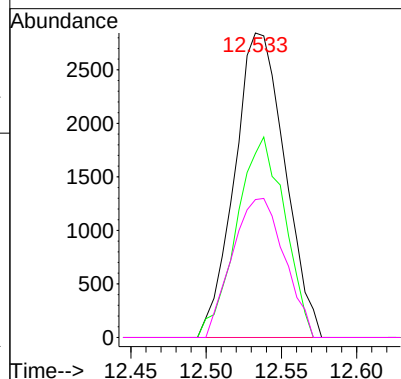
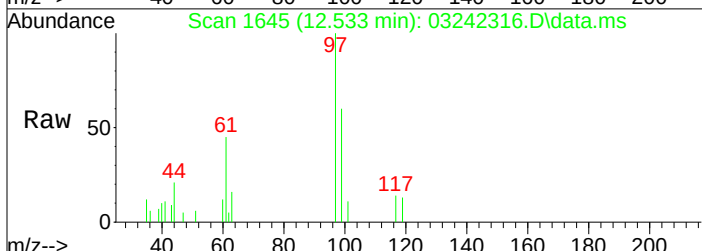
#36
 1,2-Dichloroethane
 Concen: 0.06 ng
 RT: 12.26 min Scan# 1595
 Delta R.T. -0.011 min
 Lab File: 03242316.D
 Acq: 24 Mar 2023 14:32

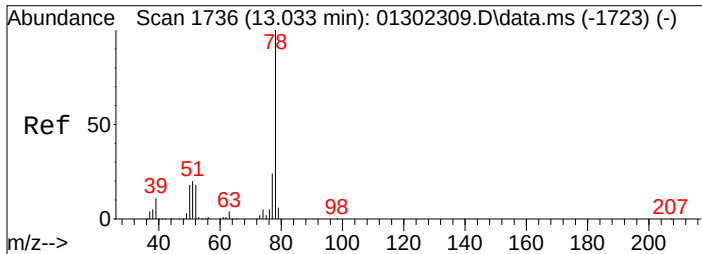
Tgt Ion: 62 Resp: 1256
 Ion Ratio Lower Upper
 62 100
 64 24.2 12.5 52.5



#38
 1,1,1-Trichloroethane
 Concen: 0.26 ng
 RT: 12.53 min Scan# 1645
 Delta R.T. -0.016 min
 Lab File: 03242316.D
 Acq: 24 Mar 2023 14:32

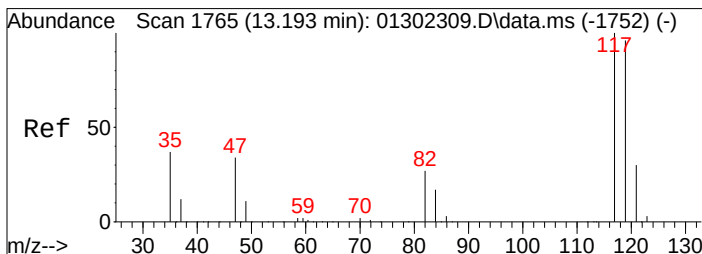
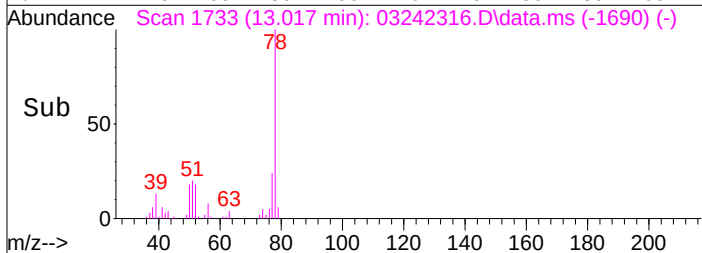
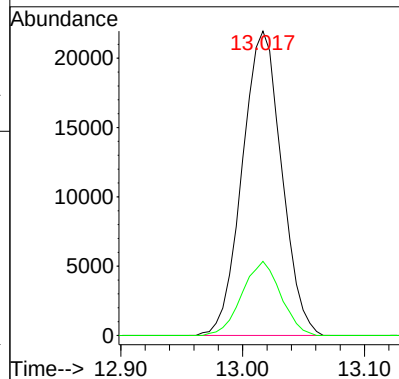
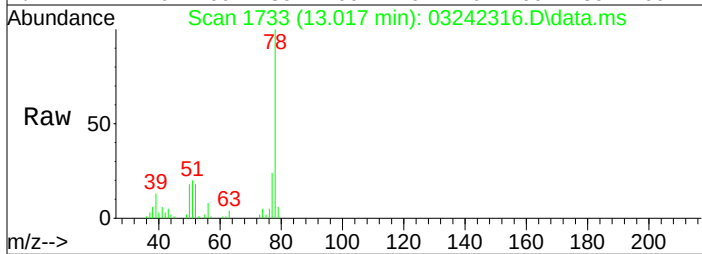
Tgt Ion: 97 Resp: 6611
 Ion Ratio Lower Upper
 97 100
 99 62.7 44.0 84.0
 61 47.3 26.8 66.8





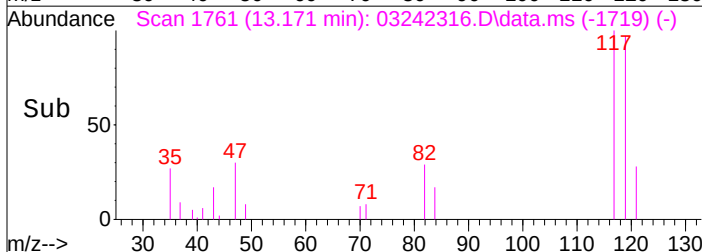
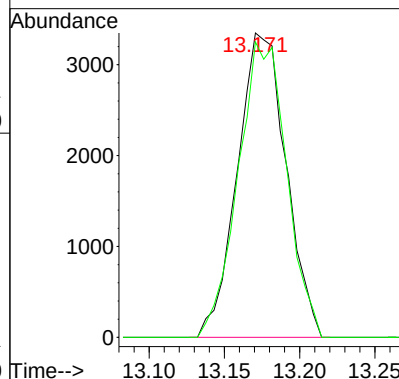
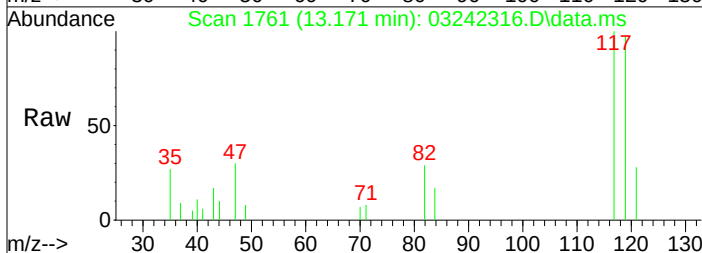
#41
Benzene
Concen: 0.74 ng
RT: 13.02 min Scan# 1733
Delta R.T. -0.011 min
Lab File: 03242316.D
Acq: 24 Mar 2023 14:32

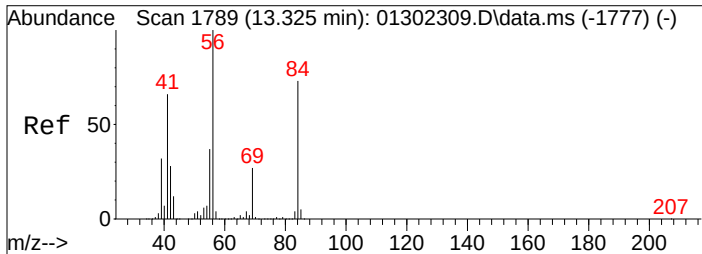
Tgt Ion	Resp	Lower	Upper
78	100		
77	23.9	3.3	43.3



#42
Carbon Tetrachloride
Concen: 0.35 ng
RT: 13.17 min Scan# 1761
Delta R.T. -0.016 min
Lab File: 03242316.D
Acq: 24 Mar 2023 14:32

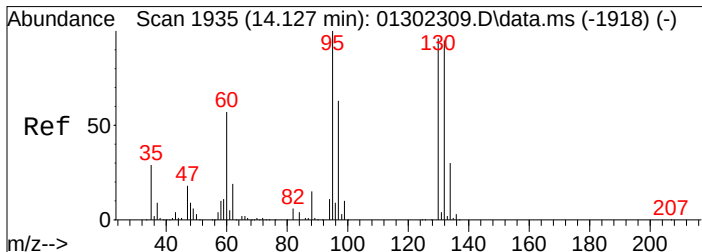
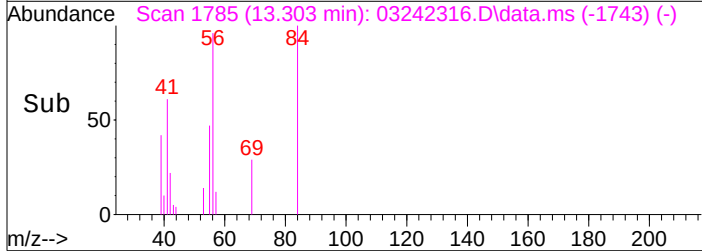
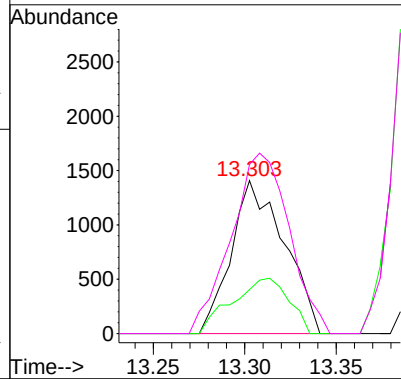
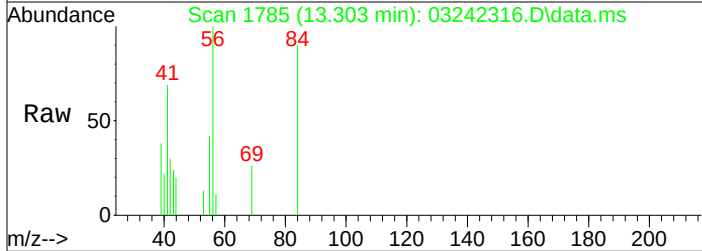
Tgt Ion	Resp	Lower	Upper
117	100		
119	96.8	76.2	116.2





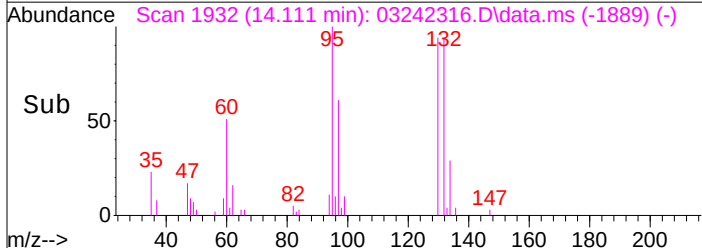
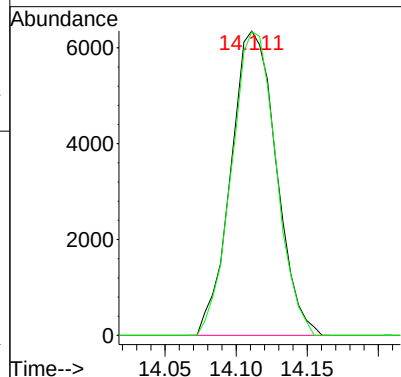
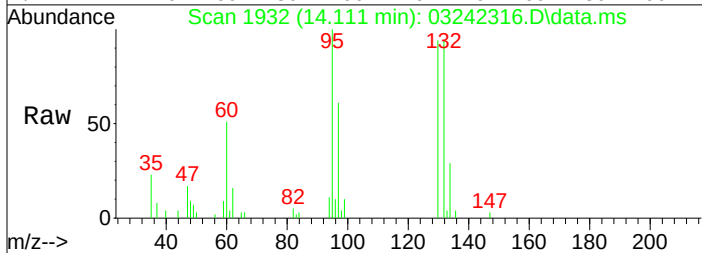
#43
Cyclohexane
Concen: 0.10 ng
RT: 13.30 min Scan# 1785
Delta R.T. -0.016 min
Lab File: 03242316.D
Acq: 24 Mar 2023 14:32

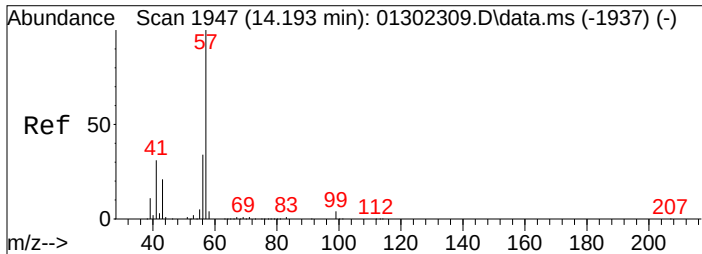
Tgt Ion:	84	Resp:	2851
Ion Ratio		Lower	Upper
84	100		
69	38.4	16.2	56.2
56	129.1	115.2	155.2



#47
Trichloroethene
Concen: 0.77 ng
RT: 14.11 min Scan# 1932
Delta R.T. -0.011 min
Lab File: 03242316.D
Acq: 24 Mar 2023 14:32

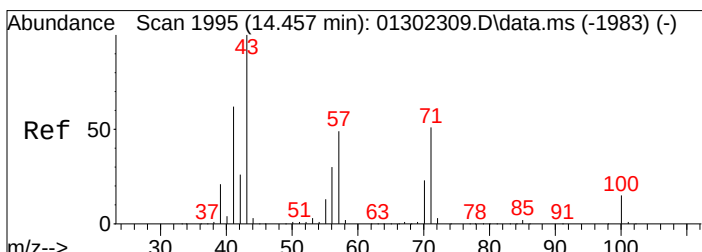
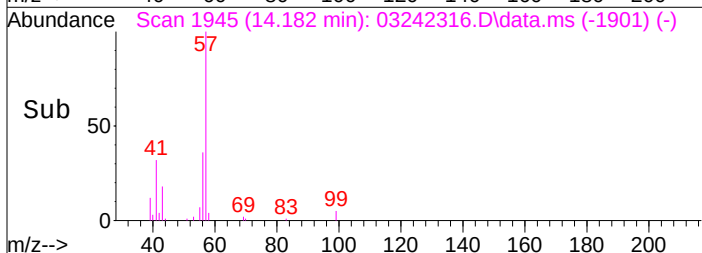
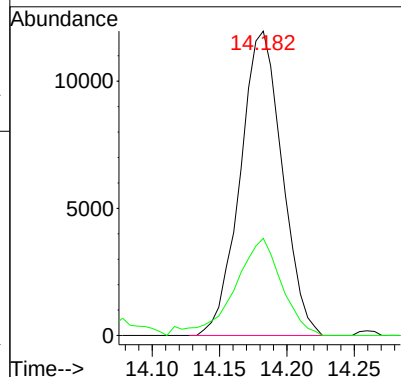
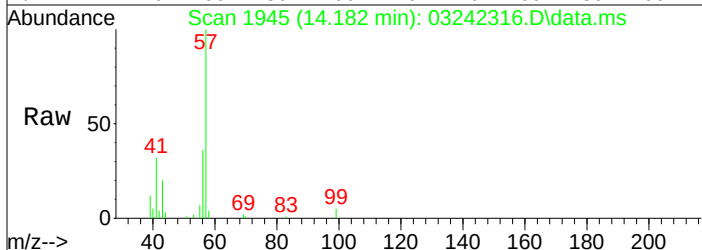
Tgt Ion:	130	Resp:	14083
Ion Ratio		Lower	Upper
130	100		
132	97.4	78.7	118.7





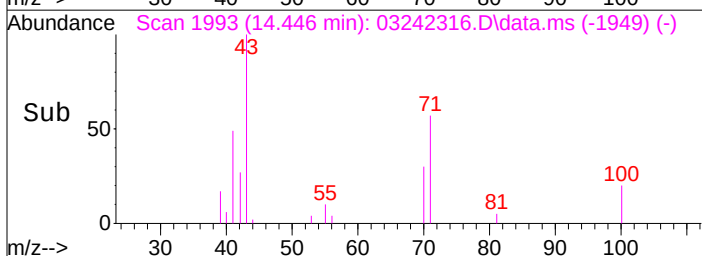
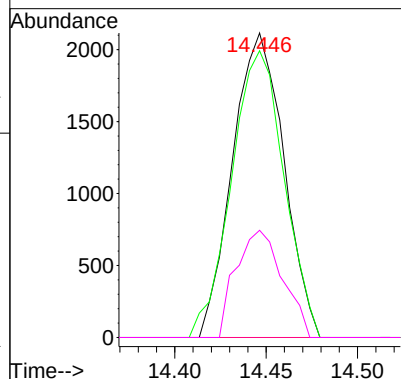
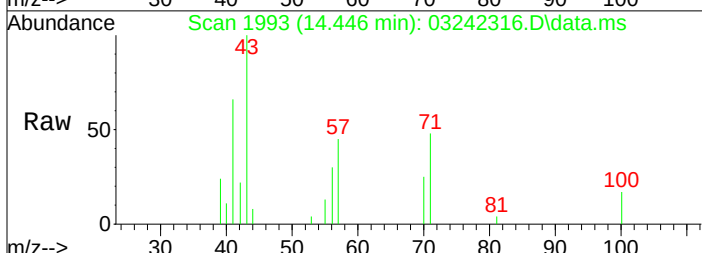
#49
 2,2,4-Trimethylpentane (Isooctane)
 Concen: 0.29 ng
 RT: 14.18 min Scan# 1945
 Delta R.T. -0.005 min
 Lab File: 03242316.D
 Acq: 24 Mar 2023 14:32

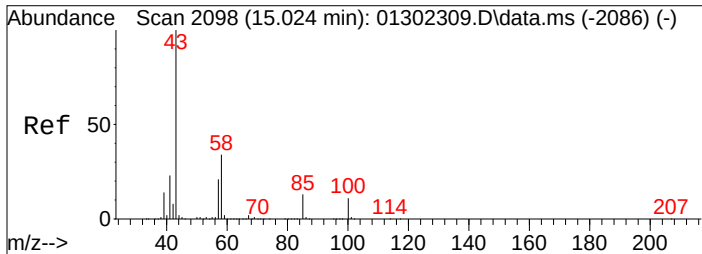
Tgt Ion:	57	Resp:	25927
Ion Ratio	Lower	Upper	
57	100		
41	35.8	5.8	45.8



#51
 n-Heptane
 Concen: 0.21 ng
 RT: 14.45 min Scan# 1993
 Delta R.T. -0.005 min
 Lab File: 03242316.D
 Acq: 24 Mar 2023 14:32

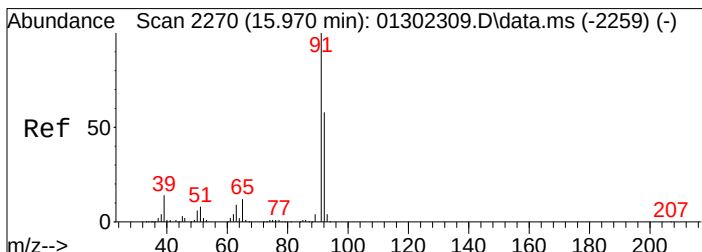
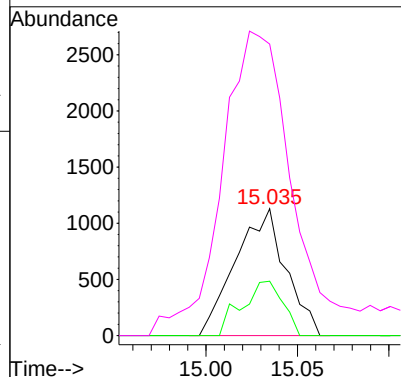
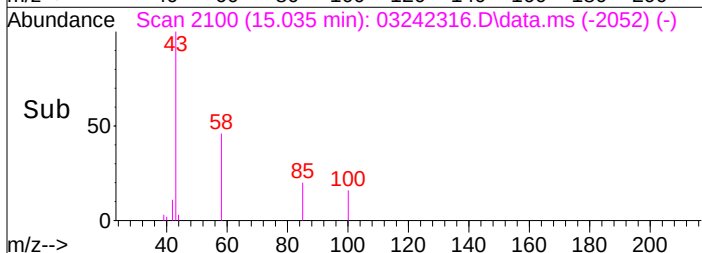
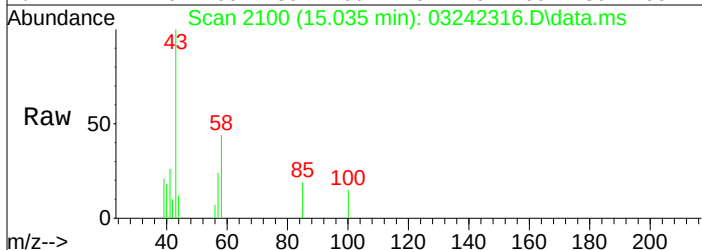
Tgt Ion:	71	Resp:	4122
Ion Ratio	Lower	Upper	
71	100		
57	96.7	81.4	121.4
100	32.0	11.8	51.8





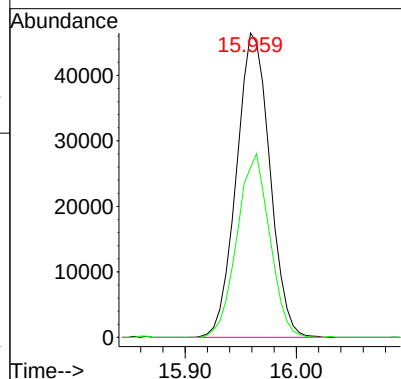
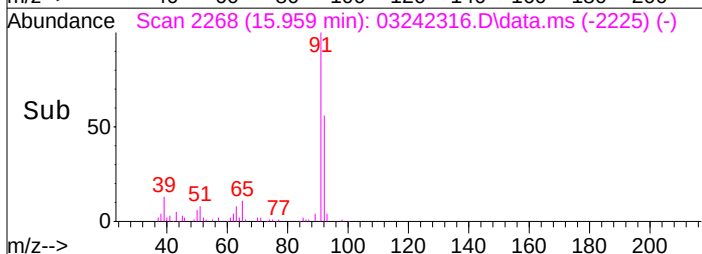
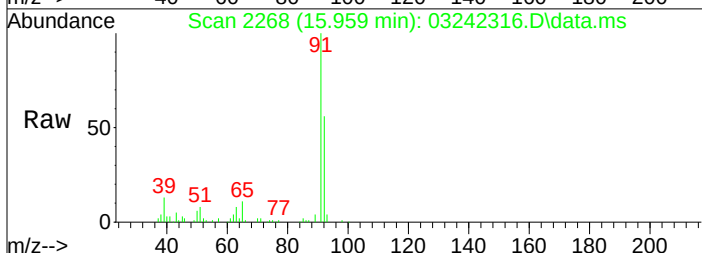
#53
 4-Methyl-2-pentanone
 Concen: 0.14 ng
 RT: 15.03 min Scan# 2100
 Delta R.T. 0.017 min
 Lab File: 03242316.D
 Acq: 24 Mar 2023 14:32

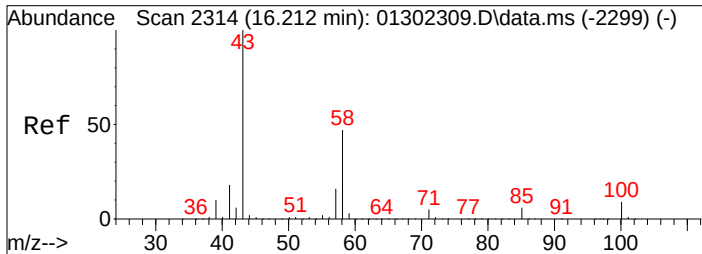
Tgt Ion:	58	Resp:	2161
Ion Ratio	Lower	Upper	
58	100		
85	34.8	31.7	47.5
43	349.4	214.3	321.5#



#58
 Toluene
 Concen: 1.18 ng
 RT: 15.96 min Scan# 2268
 Delta R.T. -0.011 min
 Lab File: 03242316.D
 Acq: 24 Mar 2023 14:32

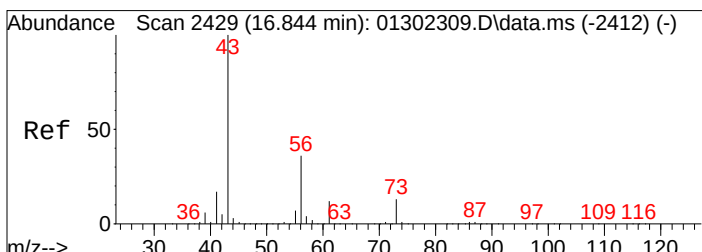
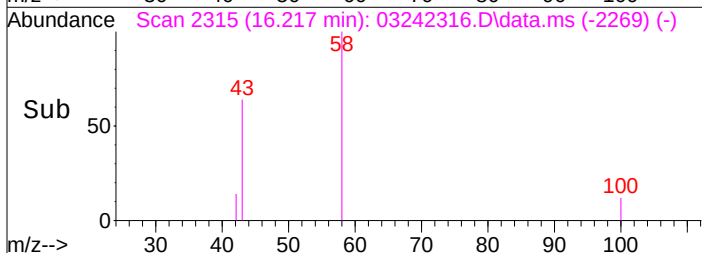
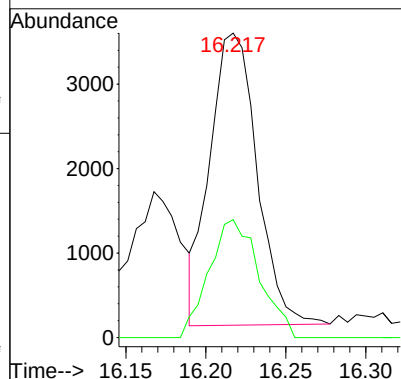
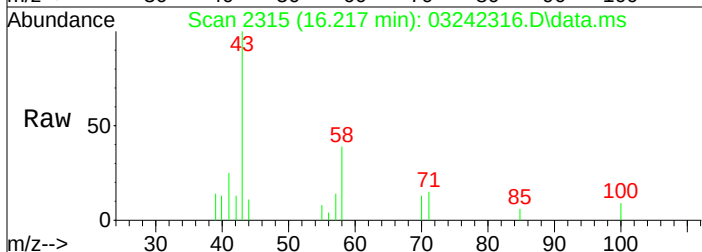
Tgt Ion:	91	Resp:	96943
Ion Ratio	Lower	Upper	
91	100		
92	59.0	39.8	79.8





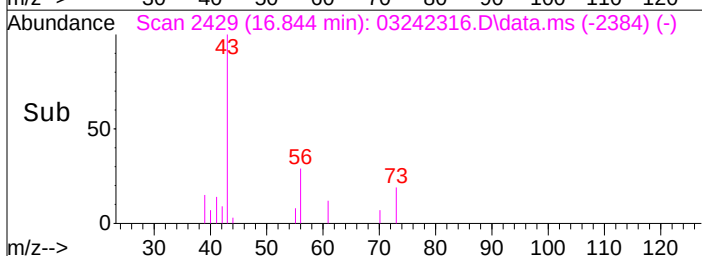
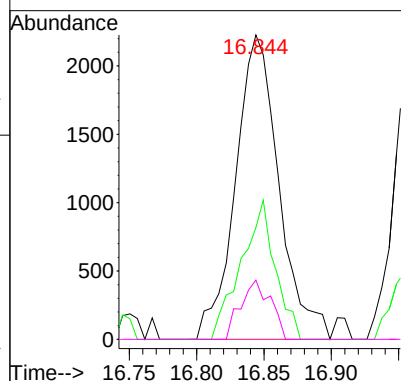
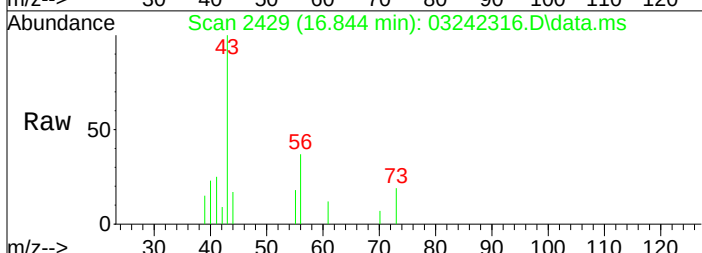
#59
2-Hexanone
Concen: 0.16 ng
RT: 16.22 min Scan# 2315
Delta R.T. 0.006 min
Lab File: 03242316.D
Acq: 24 Mar 2023 14:32

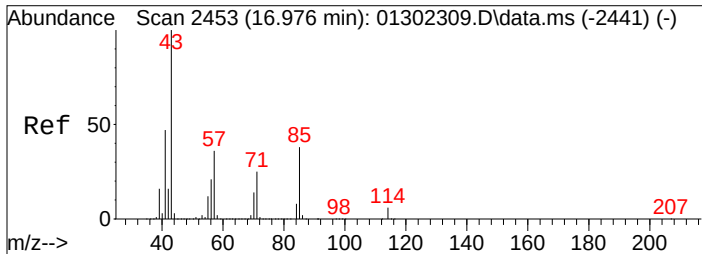
Tgt Ion: 43 Resp: 7095
Ion Ratio Lower Upper
43 100
58 42.7 32.3 72.3



#62
n-Butyl Acetate
Concen: 0.10 ng
RT: 16.84 min Scan# 2429
Delta R.T. -0.000 min
Lab File: 03242316.D
Acq: 24 Mar 2023 14:32

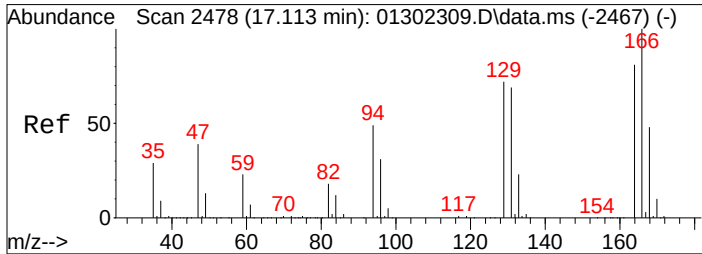
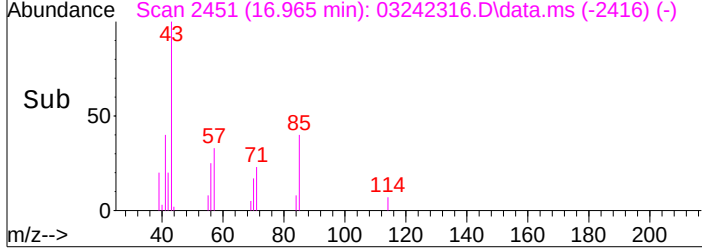
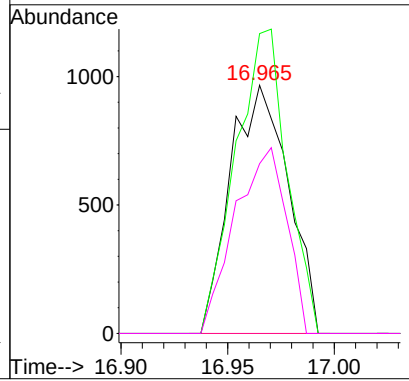
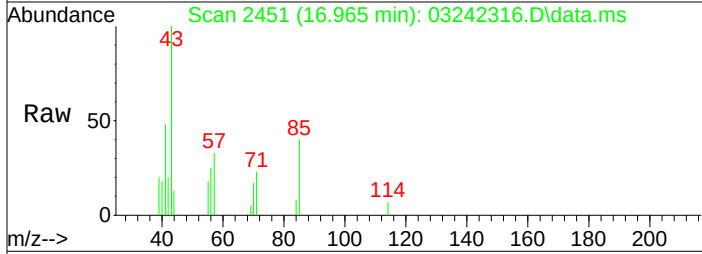
Tgt Ion: 43 Resp: 5000
Ion Ratio Lower Upper
43 100
56 36.0 21.0 61.0
73 13.4 0.0 34.3





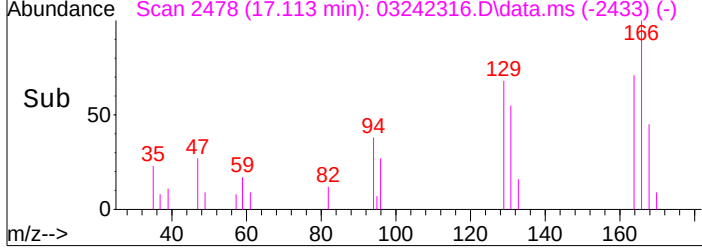
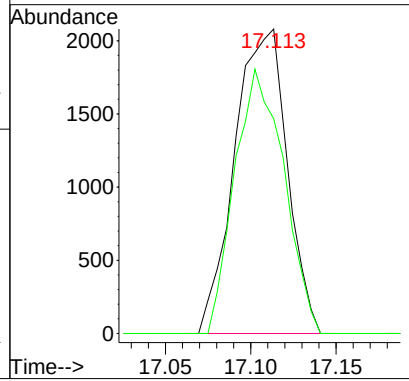
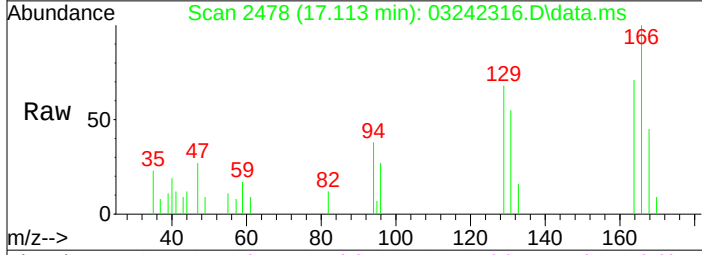
#63
n-Octane
Concen: 0.09 ng
RT: 16.96 min Scan# 2451
Delta R.T. -0.005 min
Lab File: 03242316.D
Acq: 24 Mar 2023 14:32

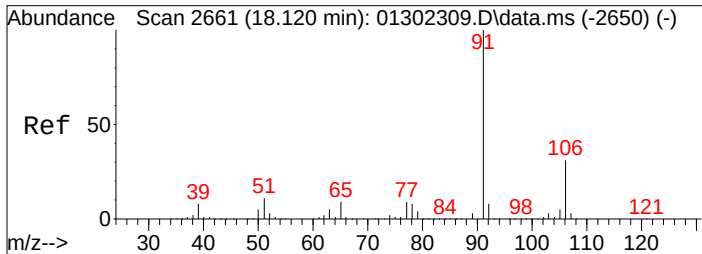
Tgt Ion:	57	Resp:	1825
Ion Ratio		Lower	Upper
57	100		
85	108.7	81.4	122.2
71	66.6	51.7	77.5



#64
Tetrachloroethene
Concen: 0.21 ng
RT: 17.11 min Scan# 2478
Delta R.T. 0.000 min
Lab File: 03242316.D
Acq: 24 Mar 2023 14:32

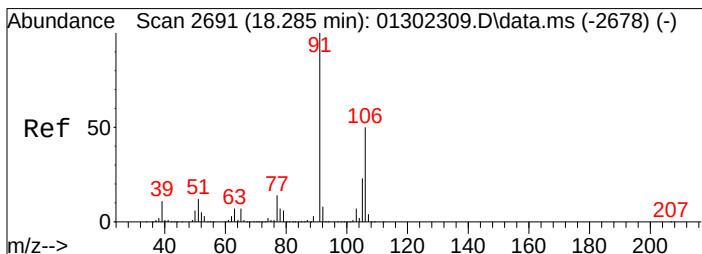
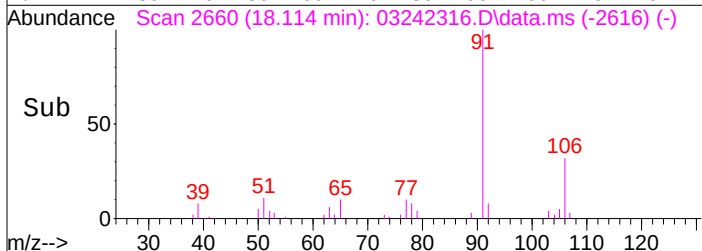
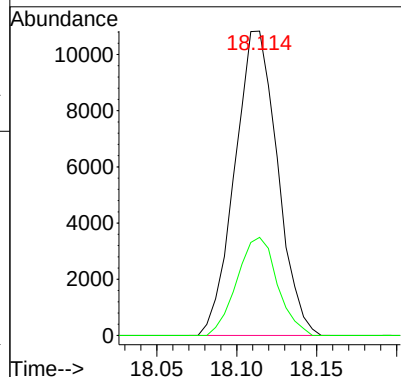
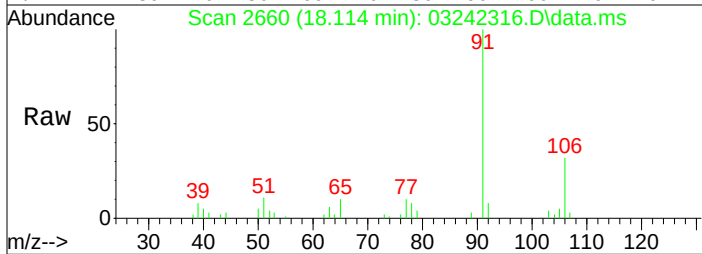
Tgt Ion:	166	Resp:	4443
Ion Ratio		Lower	Upper
166	100		
164	81.6	58.7	98.7





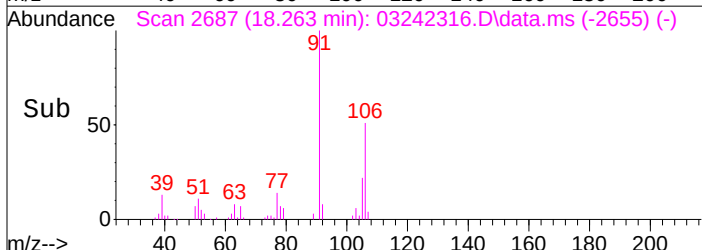
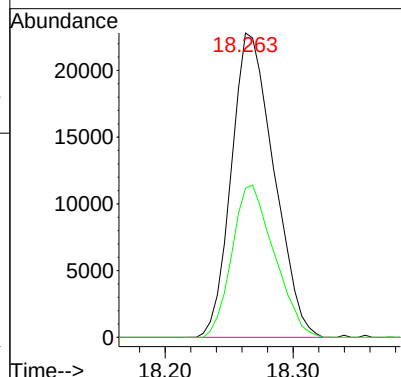
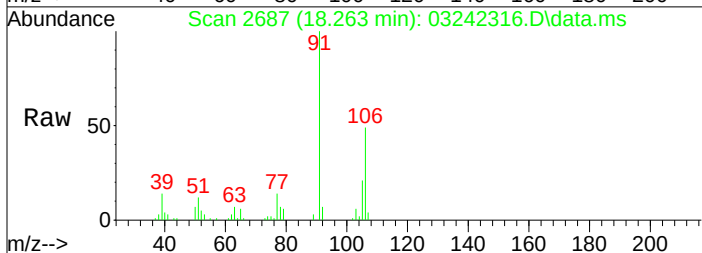
#66
Ethylbenzene
Concen: 0.22 ng
RT: 18.11 min Scan# 2660
Delta R.T. -0.005 min
Lab File: 03242316.D
Acq: 24 Mar 2023 14:32

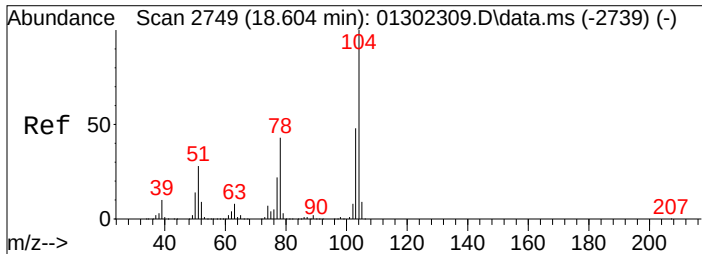
Tgt Ion	91	106	Resp	20094	Lower	Upper
Ion Ratio	100	30.5			11.5	51.5



#67
m- & p-Xylenes
Concen: 0.72 ng
RT: 18.26 min Scan# 2687
Delta R.T. -0.022 min
Lab File: 03242316.D
Acq: 24 Mar 2023 14:32

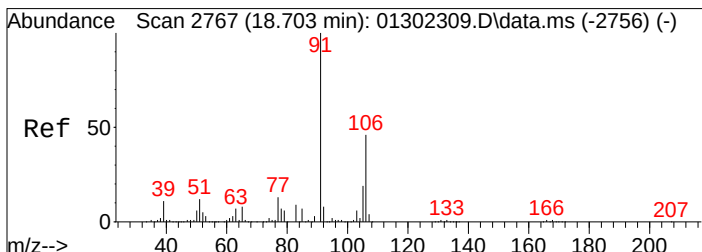
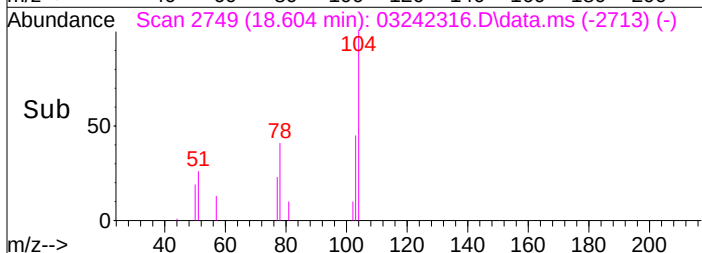
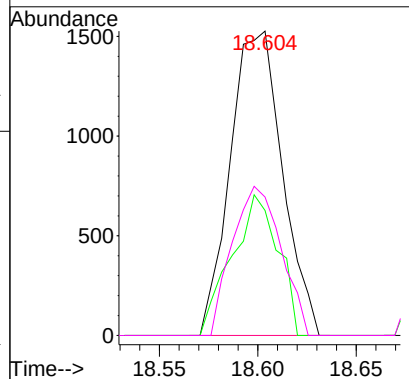
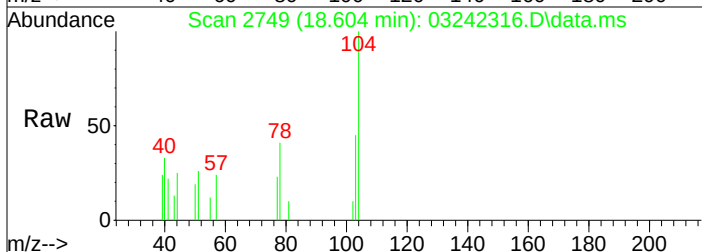
Tgt Ion	91	106	Resp	52536	Lower	Upper
Ion Ratio	100	49.9			29.2	69.2





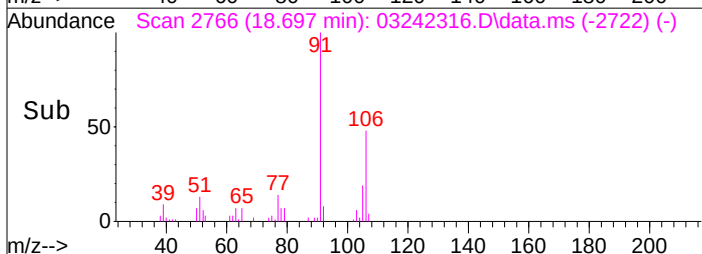
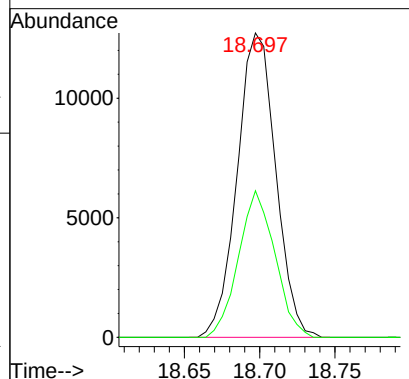
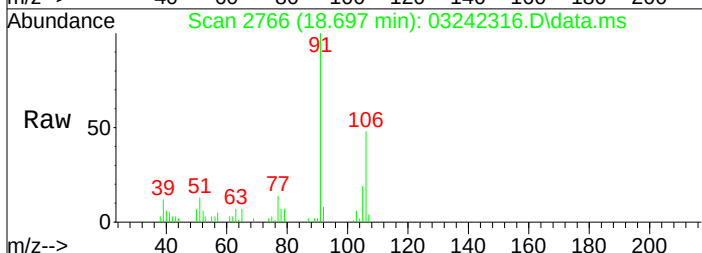
#69
Styrene
Concen: 0.05 ng
RT: 18.60 min Scan# 2749
Delta R.T. 0.000 min
Lab File: 03242316.D
Acq: 24 Mar 2023 14:32

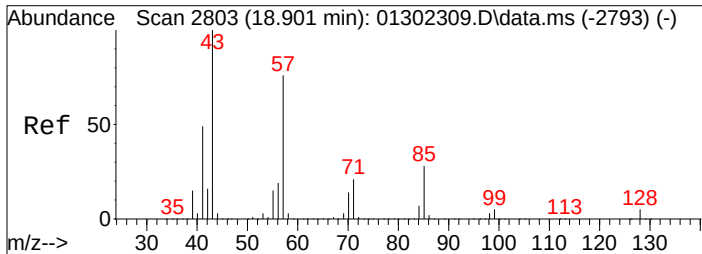
Tgt Ion: 104	Resp: 2812
Ion Ratio	Lower Upper
104 100	
78 41.3	20.0 60.0
103 45.9	26.9 66.9



#70
o-Xylene
Concen: 0.31 ng
RT: 18.70 min Scan# 2766
Delta R.T. -0.005 min
Lab File: 03242316.D
Acq: 24 Mar 2023 14:32

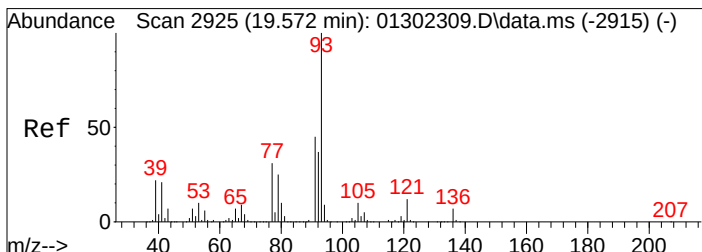
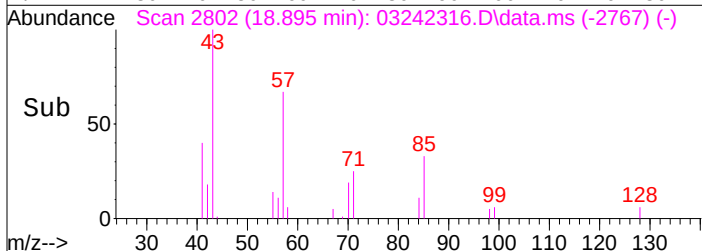
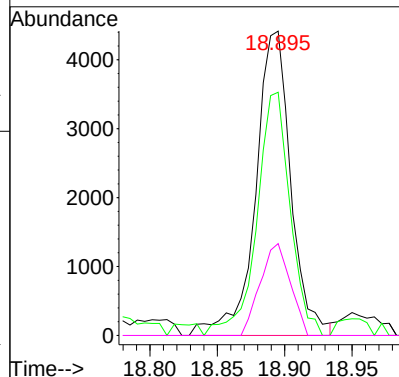
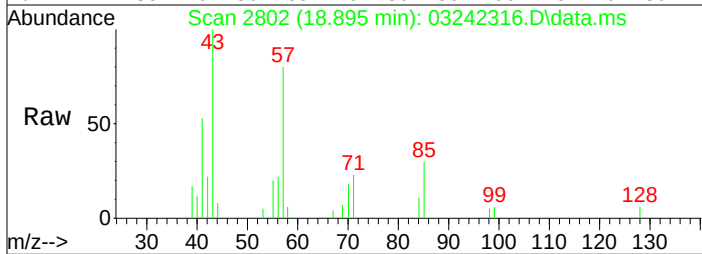
Tgt Ion: 91	Resp: 22659
Ion Ratio	Lower Upper
91 100	
106 45.5	27.3 67.3





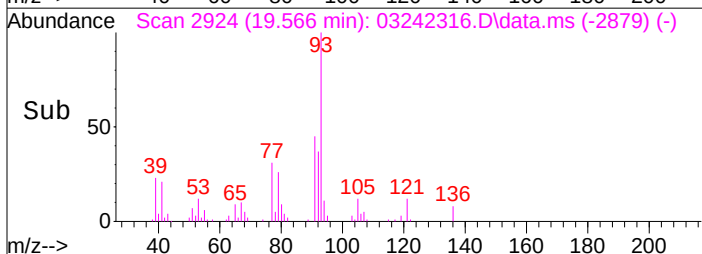
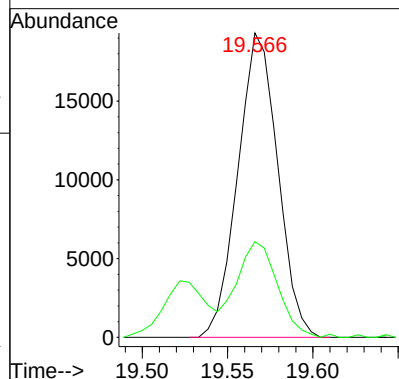
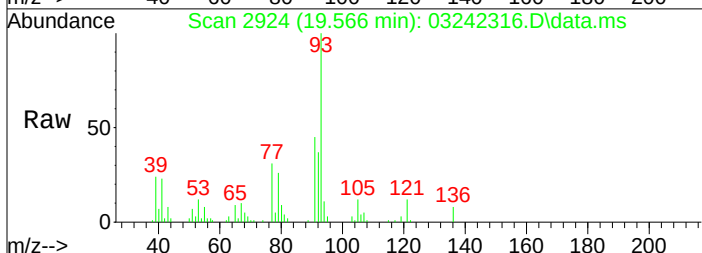
#71
n-Nonane
Concen: 0.16 ng
RT: 18.90 min Scan# 2802
Delta R.T. -0.005 min
Lab File: 03242316.D
Acq: 24 Mar 2023 14:32

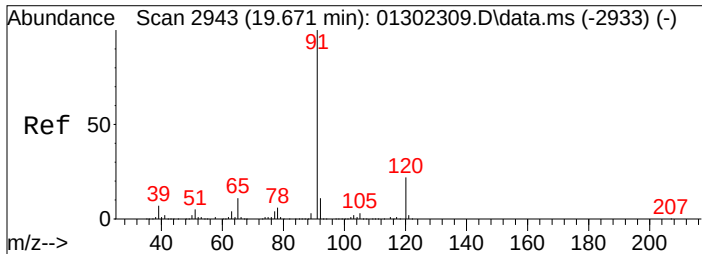
Tgt Ion:	43	Resp:	8053
Ion Ratio		Lower	Upper
43	100		
57	75.1	64.6	104.6
85	25.6	9.6	49.6



#75
alpha-Pinene
Concen: 1.35 ng
RT: 19.57 min Scan# 2924
Delta R.T. -0.005 min
Lab File: 03242316.D
Acq: 24 Mar 2023 14:32

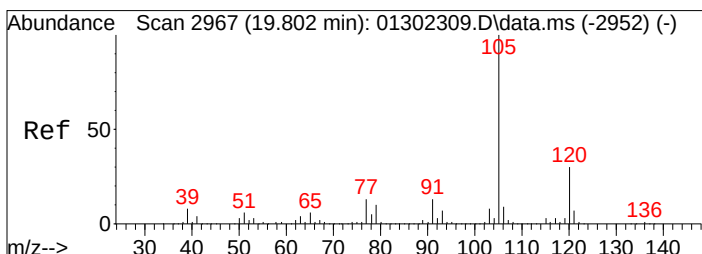
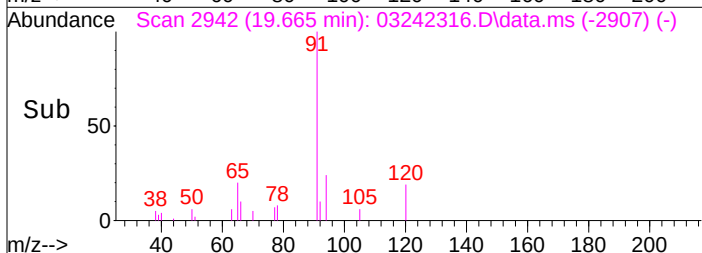
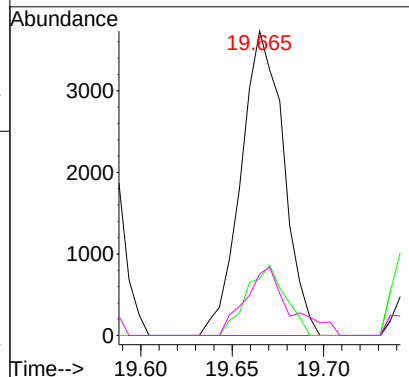
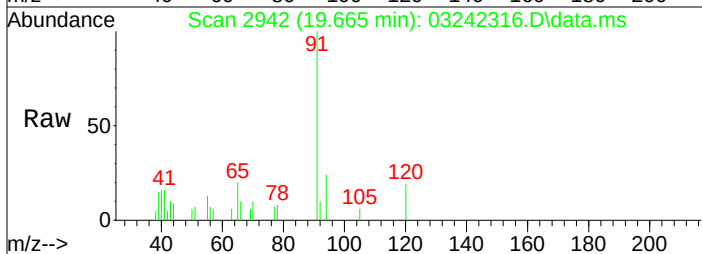
Tgt Ion:	93	Resp:	31386
Ion Ratio		Lower	Upper
93	100		
77	32.5	11.7	51.7





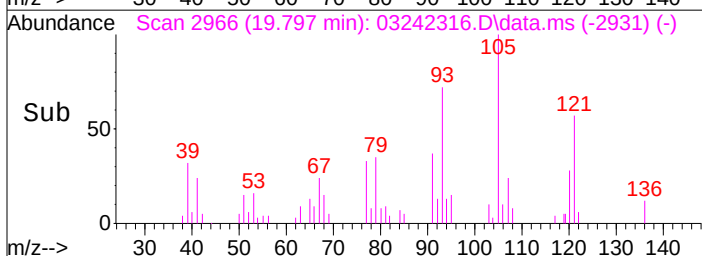
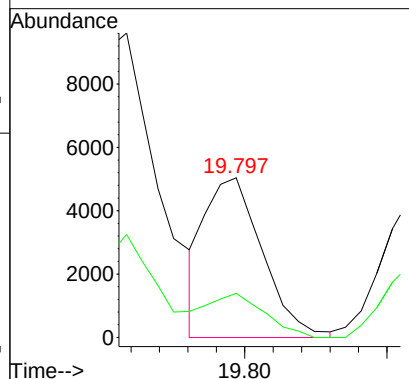
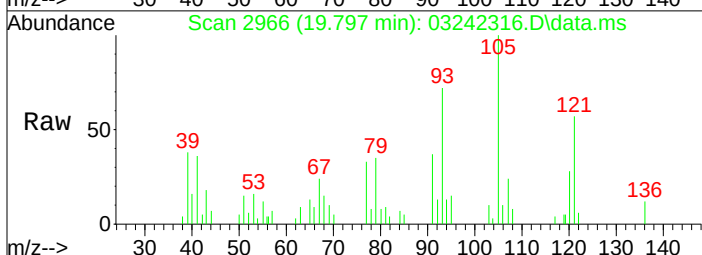
#76
n-Propylbenzene
Concen: 0.05 ng
RT: 19.66 min Scan# 2942
Delta R.T. -0.005 min
Lab File: 03242316.D
Acq: 24 Mar 2023 14:32

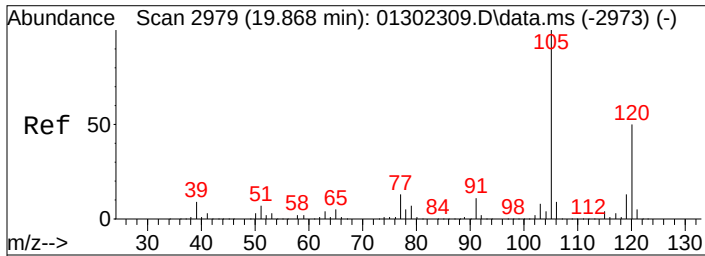
Tgt Ion:	91	Resp:	6073
Ion Ratio	Lower	Upper	
91	100		
120	21.1	4.0	44.0
65	23.2	0.0	29.9



#78
4-Ethyltoluene
Concen: 0.08 ng
RT: 19.80 min Scan# 2966
Delta R.T. -0.005 min
Lab File: 03242316.D
Acq: 24 Mar 2023 14:32

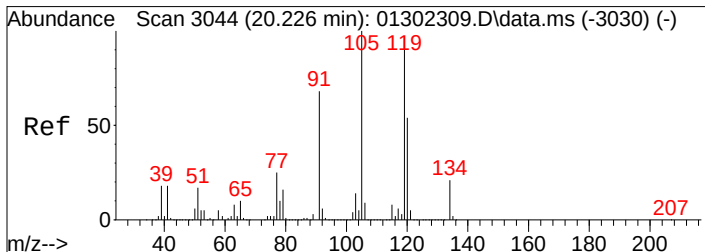
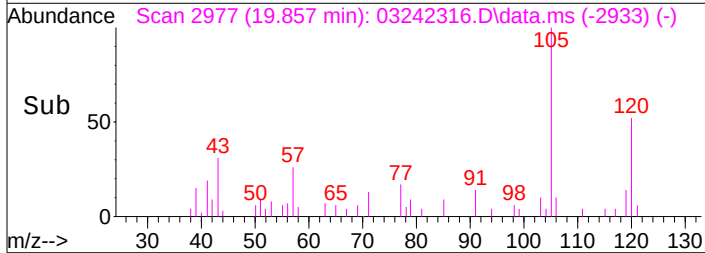
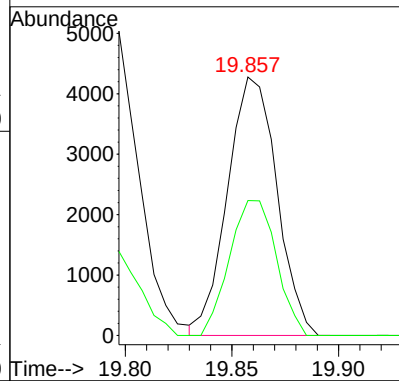
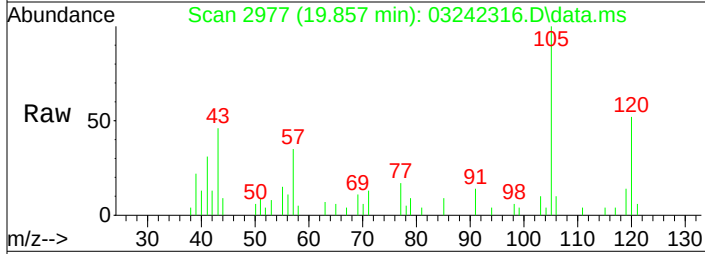
Tgt Ion:	105	Resp:	7124
Ion Ratio	Lower	Upper	
105	100		
120	27.4	11.1	51.1





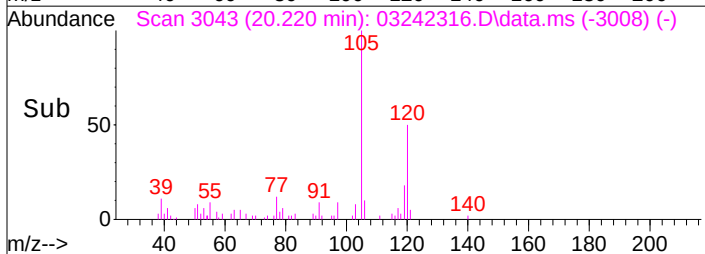
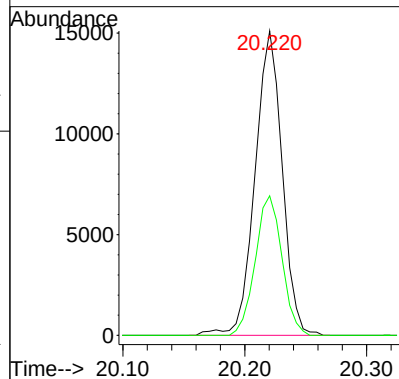
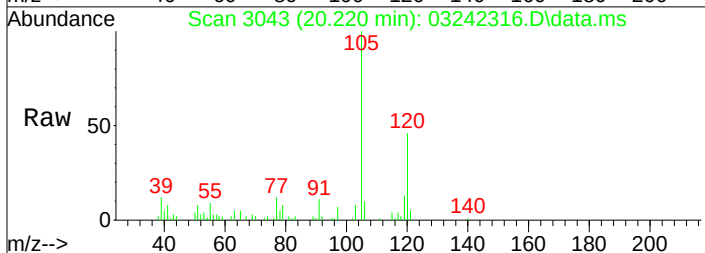
#79
1,3,5-Trimethylbenzene
Concen: 0.09 ng
RT: 19.86 min Scan# 2977
Delta R.T. -0.005 min
Lab File: 03242316.D
Acq: 24 Mar 2023 14:32

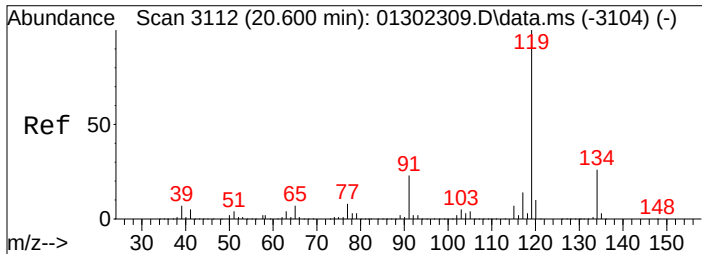
Tgt Ion:105 Resp: 6878
Ion Ratio Lower Upper
105 100
120 49.6 32.5 72.5



#82
1,2,4-Trimethylbenzene
Concen: 0.32 ng
RT: 20.22 min Scan# 3043
Delta R.T. -0.005 min
Lab File: 03242316.D
Acq: 24 Mar 2023 14:32

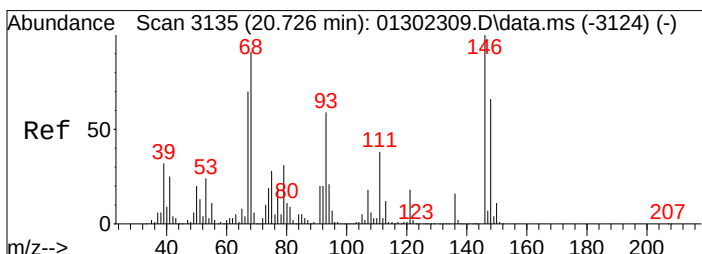
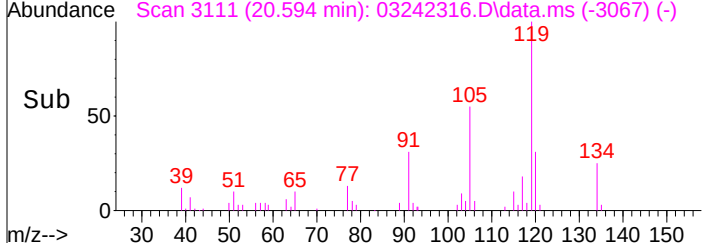
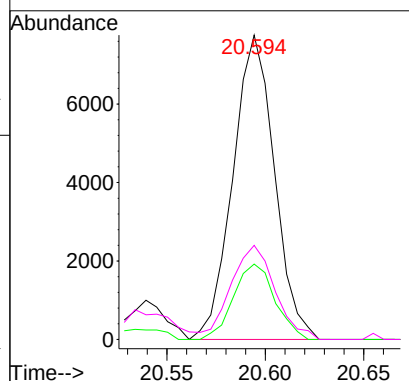
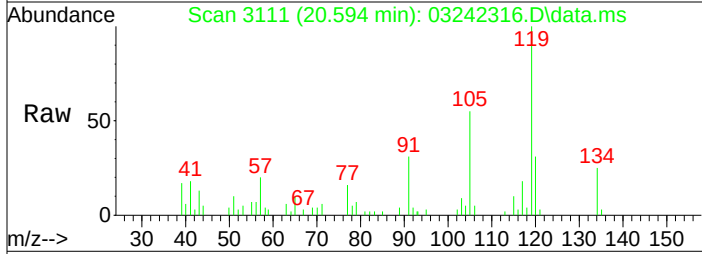
Tgt Ion:105 Resp: 23337
Ion Ratio Lower Upper
105 100
120 45.1 37.2 77.2





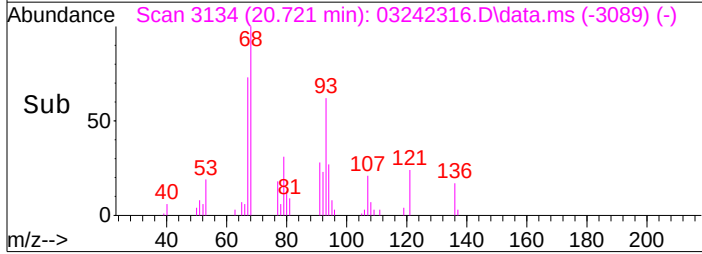
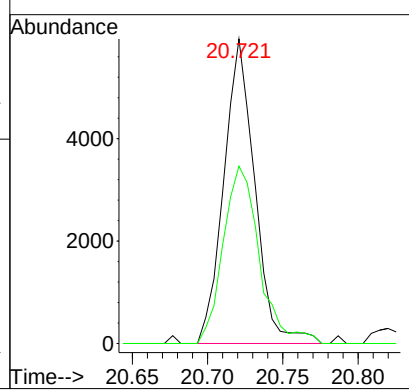
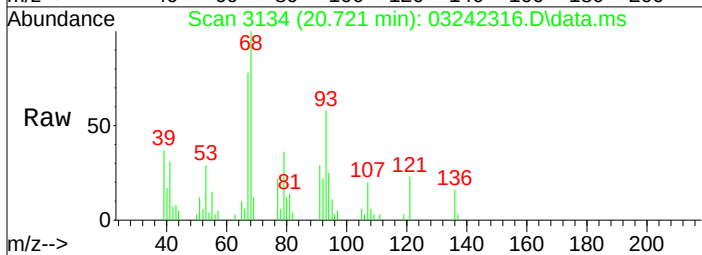
#88
 4-Isopropyltoluene (p-Cymene)
 Concen: 0.11 ng
 RT: 20.59 min Scan# 3111
 Delta R.T. -0.005 min
 Lab File: 03242316.D
 Acq: 24 Mar 2023 14:32

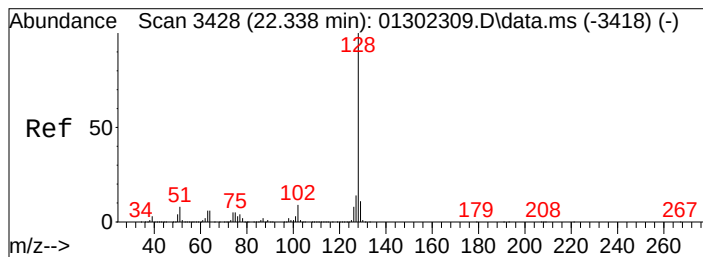
Tgt Ion: 119	Resp: 11400
Ion Ratio	Lower Upper
119	100
134	24.7 7.5 47.5
91	32.7 3.7 43.7



#91
 d-Limonene
 Concen: 0.40 ng
 RT: 20.72 min Scan# 3134
 Delta R.T. -0.005 min
 Lab File: 03242316.D
 Acq: 24 Mar 2023 14:32

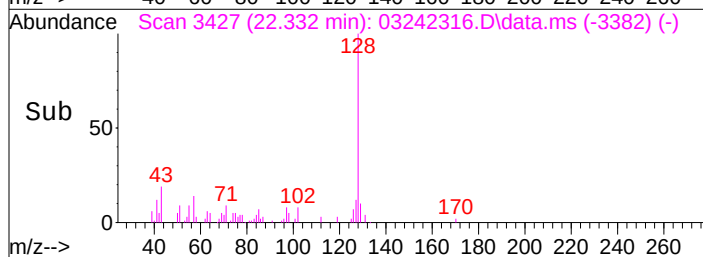
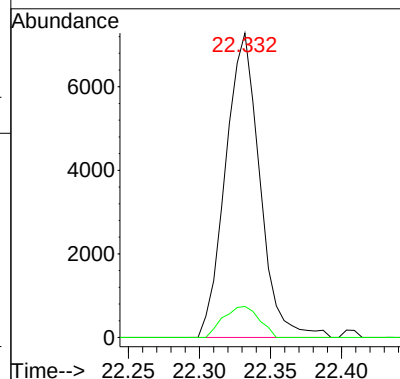
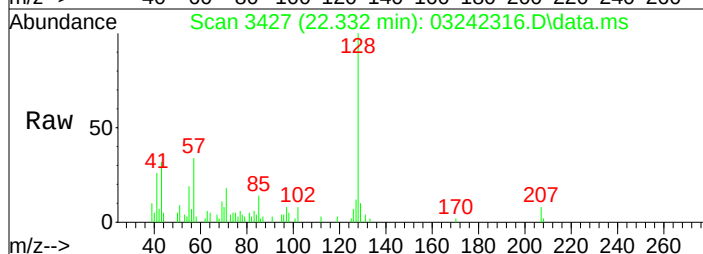
Tgt Ion: 68	Resp: 8515
Ion Ratio	Lower Upper
68	100
93	68.0 49.6 89.6





#95
 Naphthalene
 Concen: 0.14 ng
 RT: 22.33 min Scan# 3427
 Delta R.T. -0.005 min
 Lab File: 03242316.D
 Acq: 24 Mar 2023 14:32

Tgt Ion:128 Resp: 12229
 Ion Ratio Lower Upper
 128 100
 129 10.7 0.0 31.0



Data File : I:\MS16\DATA\2023_03\24\03242316.D
 Acq On : 24 Mar 2023 14:32
 Sample : P2301250-042 (1000mL)
 Misc : S35-01312301

Vial: 4
 Operator: WA
 Inst : GCMS-16

107 3/26/23

Quant Time: Mar 26 20:31:58 2023
 Quant Method : I:\MS16\METHODS\C16122022.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Dec 21 05:02:49 2022
 Response via : Initial Calibration
 DataAcq Meth:T015B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.28	130	208295	12.500	ng	-0.02
16) 1,4-Difluorobenzene (C_2)	13.41	114	952649	12.500	ng	-0.02
19) Chlorobenzene-d5 (C_3)	17.72	54	213916	12.500	ng	0.00

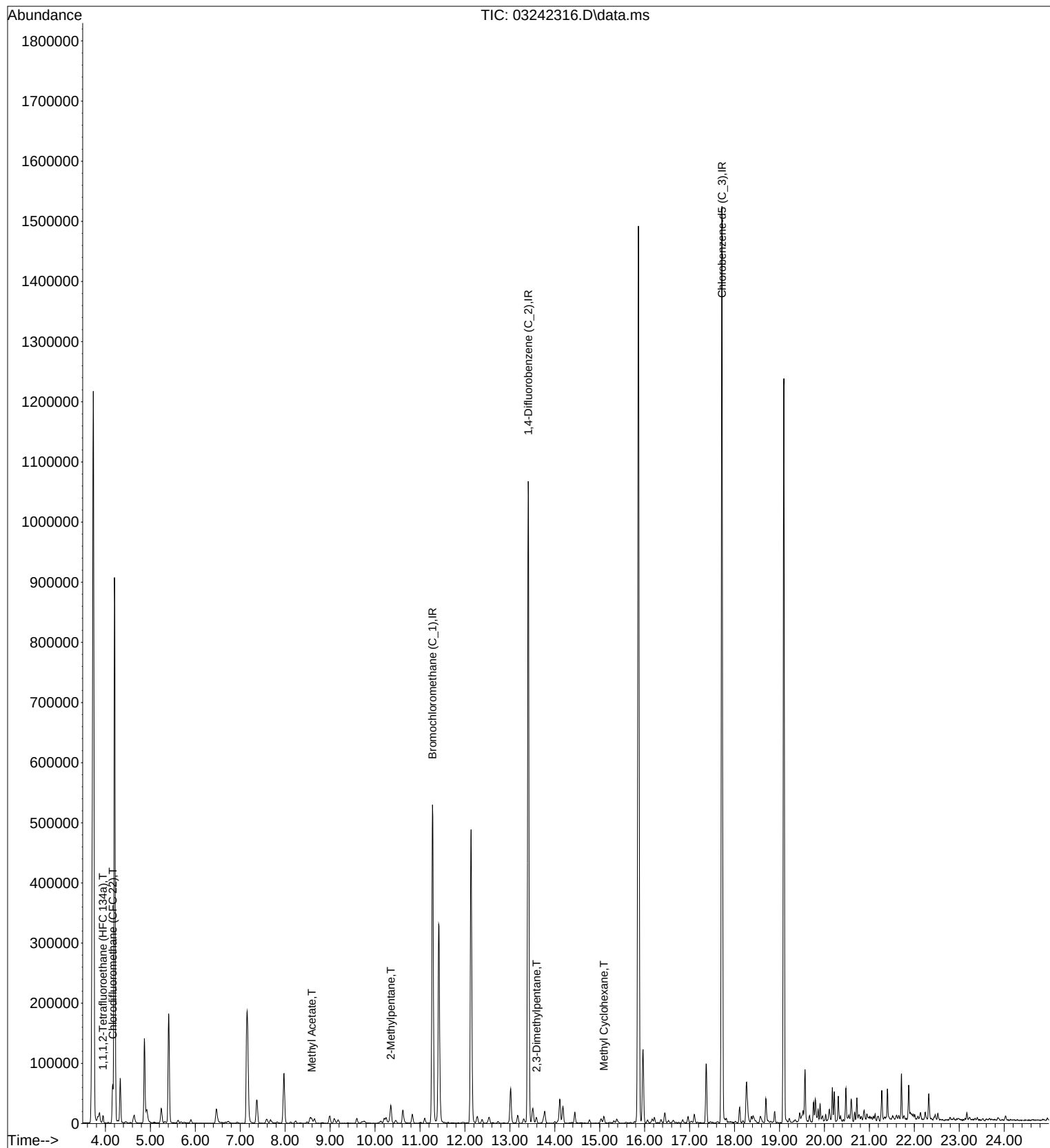
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.84	85	710	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.94	83	7460	0.452	ng	99
4) 1,1-Difluoroethane	4.07	65	523	N.D.		
5) Chlorodifluoromethane ...	4.16	67	2822	0.548	ng	78
6) 1-Chloro-1,1-Difluoroe...	4.63	65	2724	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	8.59	43	13063	0.253	ng	# 95
12) 2-Methylpentane	10.35	71	6768	0.331	ng	# 59
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	13.18	84	1344	N.D.		
17) 2,3-Dimethylpentane	13.59	56	4662	0.113	ng	92
18) Dibromomethane	13.82	174	52	N.D.		
20) Methyl Cyclohexane	15.09	55	4190	0.116	ng	96
21) 1,3-Dichloropropane	15.95	76	426	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	0.00	91	0	N.D.		
24) 1,2,3-Trichloropropane	18.70	75	538	N.D.		
25) Bromobenzene	19.22	77	478	N.D.		
26) 2-Chlorotoluene	19.66	91	6073	N.D.		
27) 4-Chlorotoluene	19.66	91	6073	N.D.		
28) Indane	20.77	117	2674	N.D.		
29) Indene	20.85	115	585	N.D.		
30) 1,2,4,5-Tetramethylben...	21.61	119	2131	N.D.		
31) 1,2,3,4-Tetramethylben...	21.65	119	3142	N.D.		
32) 1,2,3,5-Tetramethylben...	21.99	119	2460	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\24\03242316.D
Acq On : 24 Mar 2023 14:32
Sample : P2301250-042 (1000mL)
Misc : S35-01312301

Vial: 4
Operator: WA
Inst : GCMS-16

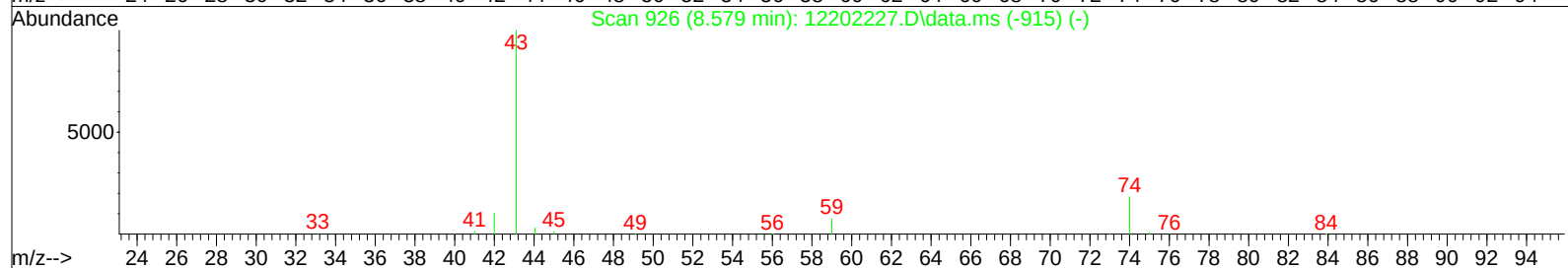
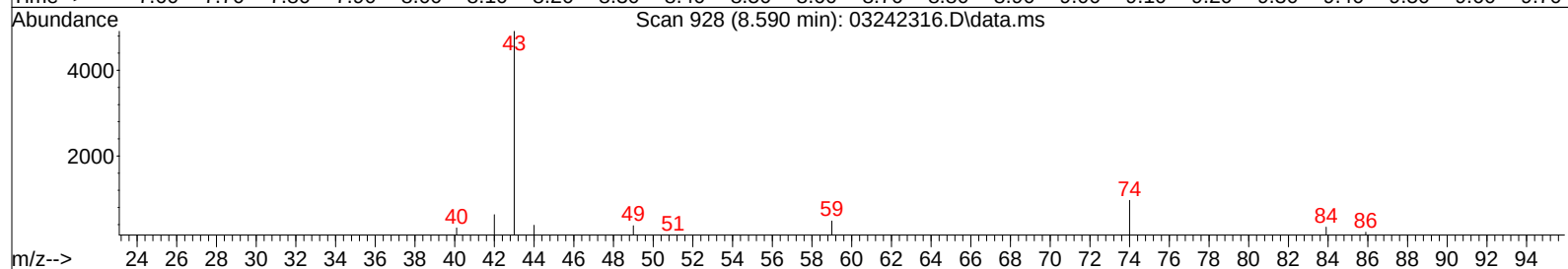
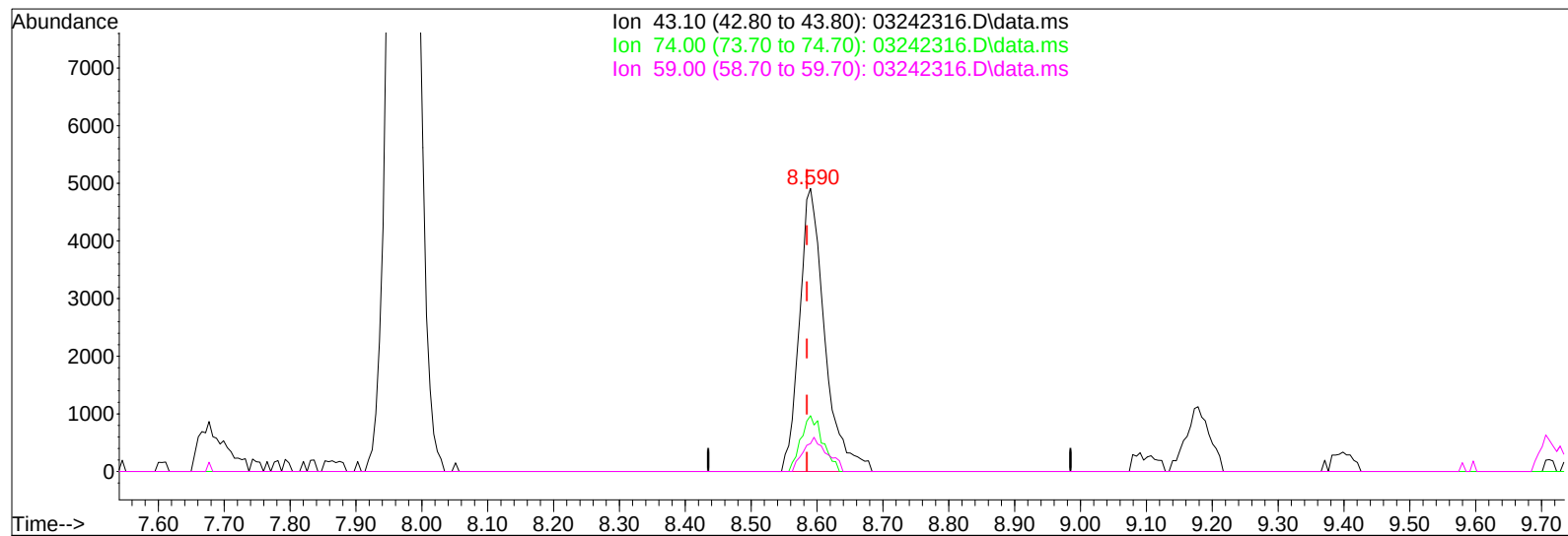
Quant Time: Mar 26 20:31:58 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



Data File : I:\MS16\DATA\2023_03\24\03242316.D
Acq On : 24 Mar 2023 14:32
Sample : P2301250-042 (1000mL)
Misc : S35-01312301

Vial: 4
Operator: WA
Inst : GCMS-16

Quant Time: Mar 26 20:27:32 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



TIC: 03242316.D\data.ms

(11) Methyl Acetate (T)

8.590min (+0.005) 0.25ng

response 13063

Ion	Exp%	Act%
43.10	100	100
74.00	18.10	17.05
59.00	7.20	11.31#
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG13A

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-043

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02339

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.78 Final Pressure (psig): 3.99

Container Dilution Factor: 1.45

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.8	0.77	0.13	0.57	0.16	0.026	
74-87-3	Chloromethane	0.32	0.30	0.12	0.15	0.15	0.060	
75-01-4	Vinyl Chloride	ND	0.16	0.083	ND	0.062	0.032	
74-83-9	Bromomethane	ND	0.30	0.11	ND	0.078	0.028	
75-00-3	Chloroethane	ND	0.30	0.096	ND	0.12	0.036	
67-64-1	Acetone	5.2	7.6	1.7	2.2	3.2	0.73	J
75-69-4	Trichlorofluoromethane	1.7	0.75	0.12	0.30	0.13	0.021	
75-35-4	1,1-Dichloroethene	ND	0.16	0.11	ND	0.040	0.027	
75-09-2	Methylene Chloride	0.40	0.77	0.22	0.11	0.22	0.063	J
76-13-1	Trichlorotrifluoroethane	0.52	0.78	0.11	0.068	0.10	0.014	J
75-15-0	Carbon Disulfide	ND	1.6	0.23	ND	0.50	0.075	
156-60-5	trans-1,2-Dichloroethene	ND	0.16	0.11	ND	0.040	0.027	
75-34-3	1,1-Dichloroethane	ND	0.16	0.11	ND	0.039	0.028	
1634-04-4	Methyl tert-Butyl Ether	ND	0.78	0.091	ND	0.22	0.025	
78-93-3	2-Butanone (MEK)	0.89	1.5	0.16	0.30	0.51	0.054	J
156-59-2	cis-1,2-Dichloroethene	ND	0.16	0.11	ND	0.040	0.027	
67-66-3	Chloroform	0.16	0.16	0.10	0.033	0.033	0.021	
107-06-2	1,2-Dichloroethane	ND	0.16	0.086	ND	0.039	0.021	
71-55-6	1,1,1-Trichloroethane	0.14	0.16	0.096	0.025	0.029	0.018	J
71-43-2	Benzene	0.69	0.16	0.11	0.22	0.050	0.035	
56-23-5	Carbon Tetrachloride	0.46	0.16	0.11	0.073	0.025	0.017	
110-82-7	Cyclohexane	ND	1.5	0.22	ND	0.44	0.063	
78-87-5	1,2-Dichloropropane	ND	0.16	0.096	ND	0.035	0.021	
75-27-4	Bromodichloromethane	ND	0.16	0.11	ND	0.024	0.017	
79-01-6	Trichloroethene	0.54	0.16	0.10	0.10	0.030	0.019	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG13A

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-043

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02339

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.78 Final Pressure (psig): 3.99

Container Dilution Factor: 1.45

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.78	0.12	ND	0.17	0.027	
108-10-1	4-Methyl-2-pentanone	ND	1.6	0.11	ND	0.39	0.026	
10061-02-6	trans-1,3-Dichloropropene	ND	0.74	0.16	ND	0.16	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.16	0.078	ND	0.029	0.014	
108-88-3	Toluene	0.86	0.77	0.094	0.23	0.20	0.025	
591-78-6	2-Hexanone	0.26	1.6	0.096	0.063	0.39	0.023	J
124-48-1	Dibromochloromethane	ND	0.16	0.10	ND	0.019	0.012	
106-93-4	1,2-Dibromoethane	ND	0.16	0.090	ND	0.021	0.012	
127-18-4	Tetrachloroethene	0.22	0.16	0.10	0.033	0.024	0.015	
108-90-7	Chlorobenzene	ND	0.77	0.10	ND	0.17	0.022	
100-41-4	Ethylbenzene	0.18	0.77	0.11	0.040	0.18	0.025	J
179601-23-1	m,p-Xylenes	0.54	1.6	0.20	0.13	0.37	0.047	J
75-25-2	Bromoform	ND	0.78	0.16	ND	0.076	0.015	
100-42-5	Styrene	ND	0.77	0.12	ND	0.18	0.029	
95-47-6	o-Xylene	0.21	0.77	0.11	0.048	0.18	0.026	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	0.11	ND	0.023	0.016	
98-82-8	Cumene	ND	0.78	0.11	ND	0.16	0.023	
541-73-1	1,3-Dichlorobenzene	ND	0.77	0.12	ND	0.13	0.019	
106-46-7	1,4-Dichlorobenzene	ND	0.77	0.12	ND	0.13	0.020	
95-50-1	1,2-Dichlorobenzene	ND	0.78	0.11	ND	0.13	0.019	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.6	0.15	ND	0.17	0.015	
120-82-1	1,2,4-Trichlorobenzene	ND	1.6	0.19	ND	0.21	0.025	
79-20-9	Methyl Acetate	ND	0.73	0.35	ND	0.24	0.11	X
108-87-2	Methylcyclohexane	ND	0.73	0.38	ND	0.18	0.094	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS16\DATA\2023_03\24\03242319.D
 Acq On : 24 Mar 2023 16:51
 Sample : P2301250-043 (1000mL)
 Misc : S35-01312301

Vial: 5
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 26 20:38:05 2023

3/26/23

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:TO15B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	208917	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	957268	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.72	54	215617	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	375058	13.499	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	108.00%
57) Toluene-d8 (SS2)	15.86	98	1093449	11.584	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.64%
73) Bromofluorobenzene (SS3)	19.10	174	339802	11.542	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.32%

Target Compounds

						Qvalue
2) Propene	4.17	42	8989	0.319	ng	# 55
3) Dichlorodifluoromethan...	4.34	85	60908	1.951	ng	99
4) Chloromethane	4.62	50	6411	0.220	ng	94
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	1526	0.088	ng	89
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.33	54	669	N.D.		
8) Bromomethane	5.76	94	471	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.47	45	32641	1.624	ng	95
11) Acetonitrile	6.74	41	5475	0.109	ng	95
12) Acrolein	6.94	56	2198	0.154	ng	90
13) Acetone	7.15	58	54631	3.553	ng	# 68
14) Trichlorofluoromethane	7.37	101	33097	1.149	ng	99
15) 2-Propanol (Isopropanol)	7.68	45	13409	0.250	ng	91
16) Acrylonitrile	7.90	53	1486	0.052	ng	96
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	8.60	59	1414	N.D.		
19) Methylene Chloride	8.56	84	4669	0.275	ng	88
20) 3-Chloro-1-propene (Al...	8.65	41	1516	N.D.		
21) Trichlorotrifluoroethane	9.00	151	5163	0.360	ng	91
22) Carbon Disulfide	8.84	76	2205	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	10.08	63	838	N.D.		
25) Methyl tert-Butyl Ether	10.24	73	908	N.D.		
26) Vinyl Acetate	10.35	86	741	0.216	ng	# 1
27) 2-Butanone (MEK)	10.62	72	6879	0.617	ng	94
28) cis-1,2-Dichloroethene	11.11	61	1171	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	11.43	61	31600	4.334	ng	96
31) n-Hexane	11.40	57	7024	0.193	ng	96
32) Chloroform	11.45	83	3114	0.112	ng	100
34) Tetrahydrofuran (THF)	11.94	72	255	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	12.25	62	1178	0.052	ng	77
38) 1,1,1-Trichloroethane	12.53	97	2468	0.095	ng	96
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	12.61	56	108	No Calib	#	
41) Benzene	13.02	78	32081	0.476	ng	98
42) Carbon Tetrachloride	13.18	117	6974	0.318	ng	98
43) Cyclohexane	13.31	84	1588	0.056	ng	93
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	13.87	63	110	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	14.11	130	6795	0.371	ng	99
48) 1,4-Dioxane	14.14	88	111	N.D.		
49) 2,2,4-Trimethylpentane...	14.18	57	16344	0.180	ng	74
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS16\DATA\2023_03\24\03242319.D
 Acq On : 24 Mar 2023 16:51
 Sample : P2301250-043 (1000mL)
 Misc : S35-01312301

Vial: 5
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 26 20:38:05 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

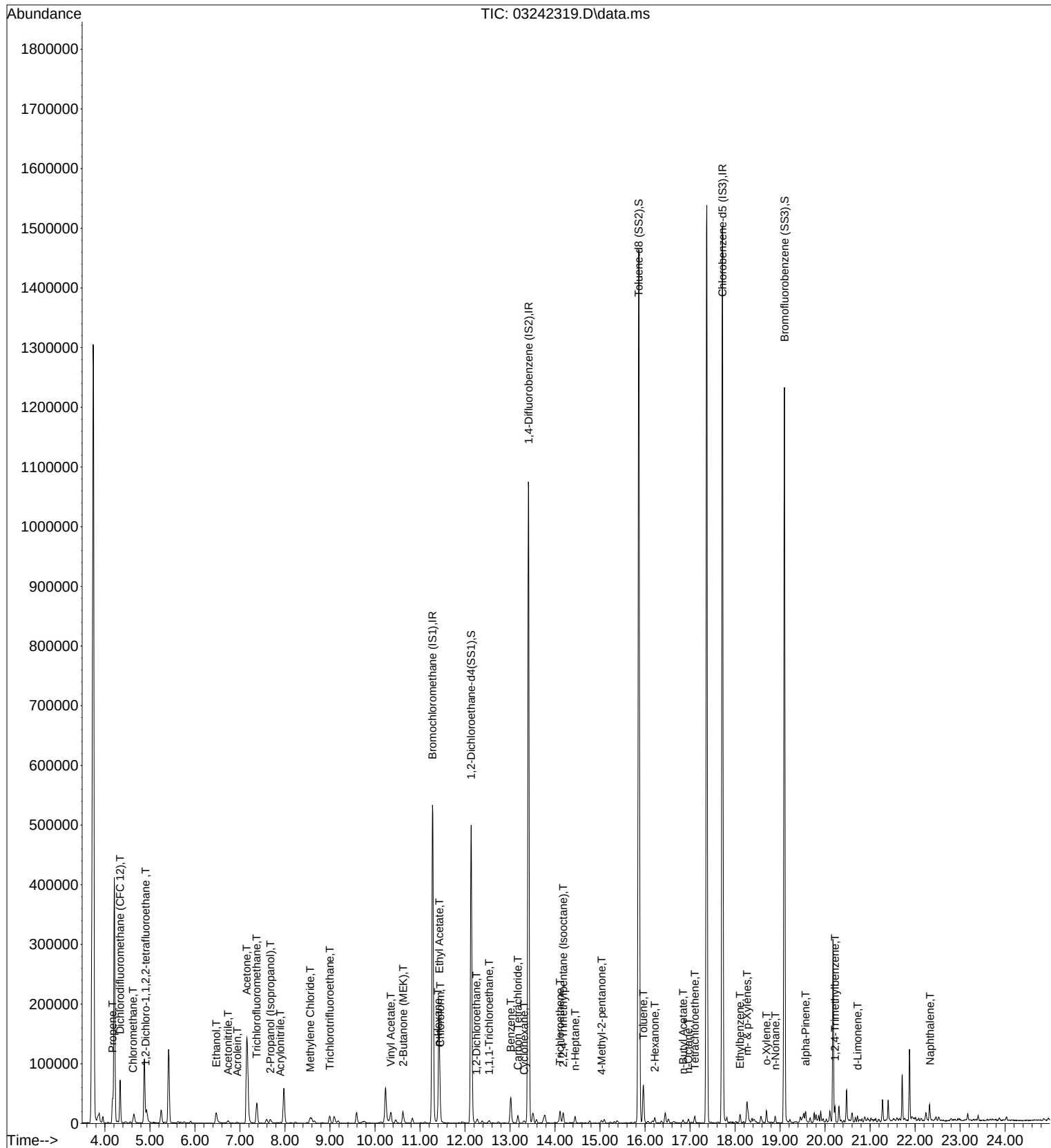
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.45	71	2693	0.136	ng	97
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	15.03	58	1089	0.070	ng	# 40
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.96	91	49231	0.595	ng	97
59) 2-Hexanone	16.22	43	7780	0.178	ng	85
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.84	43	4455	0.089	ng	94
63) n-Octane	16.96	57	1099	0.052	ng	98
64) Tetrachloroethene	17.11	166	3273	0.155	ng	97
65) Chlorobenzene	17.76	112	350	N.D.		
66) Ethylbenzene	18.11	91	11293	0.121	ng	100
67) m- & p-Xylenes	18.27	91	27665	0.375	ng	100
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.60	104	1505	N.D.		
70) o-Xylene	18.70	91	10418	0.143	ng	99
71) n-Nonane	18.89	43	5015	0.097	ng	90
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	19.22	105	1789	N.D.		
75) alpha-Pinene	19.57	93	6620	0.282	ng	91
76) n-Propylbenzene	19.66	91	3837	N.D.		
77) 3-Ethyltoluene	20.22	105	11294	No Calib	#	
78) 4-Ethyltoluene	19.80	105	3649	N.D.		
79) 1,3,5-Trimethylbenzene	19.86	105	3823	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.22	105	11294	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.22	105	11294	0.152	ng	87
83) n-Decane	20.21	58	186	No Calib	#	
84) Benzyl Chloride	20.34	91	519	N.D.		
85) 1,3-Dichlorobenzene	20.36	146	367	N.D.		
86) 1,4-Dichlorobenzene	20.41	146	585	N.D.		
87) sec-Butylbenzene	20.46	105	717	N.D.		
88) 4-Isopropyltoluene (p-...	20.59	119	3762	N.D.		
89) 1,2,3-Trimethylbenzene	20.22	105	11294	No Calib	#	
90) 1,2-Dichlorobenzene	20.72	146	274	N.D.		
91) d-Limonene	20.72	68	2150	0.101	ng	93
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	21.28	58	431	No Calib	#	
94) 1,2,4-Trichlorobenzene	22.23	180	934	N.D.		
95) Naphthalene	22.33	128	5450	0.060	ng	99
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	18.20	55	571	No Calib	#	
99) tert-Butylbenzene	20.22	119	1466	N.D.		
100) n-Butylbenzene	20.96	91	1909	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\24\03242319.D
Acq On : 24 Mar 2023 16:51
Sample : P2301250-043 (1000mL)
Misc : S35-01312301

Vial: 5
Operator: WA
Inst : GCMS-16

Quant Time: Mar 26 20:38:05 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:TO15B.M



Data File : I:\MS16\DATA\2023_03\24\03242319.D
 Acq On : 24 Mar 2023 16:51
 Sample : P2301250-043 (1000mL)
 Misc : S35-01312301

Vial: 5
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 26 20:38:05 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

3/26/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	208917	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	957268	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.72	54	215617	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	375058	13.499	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	108.00%	
57) Toluene-d8 (SS2)	15.86	98	1093449	11.584	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	92.64%	
73) Bromofluorobenzene (SS3)	19.10	174	339802	11.542	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	92.32%	

Target Compounds

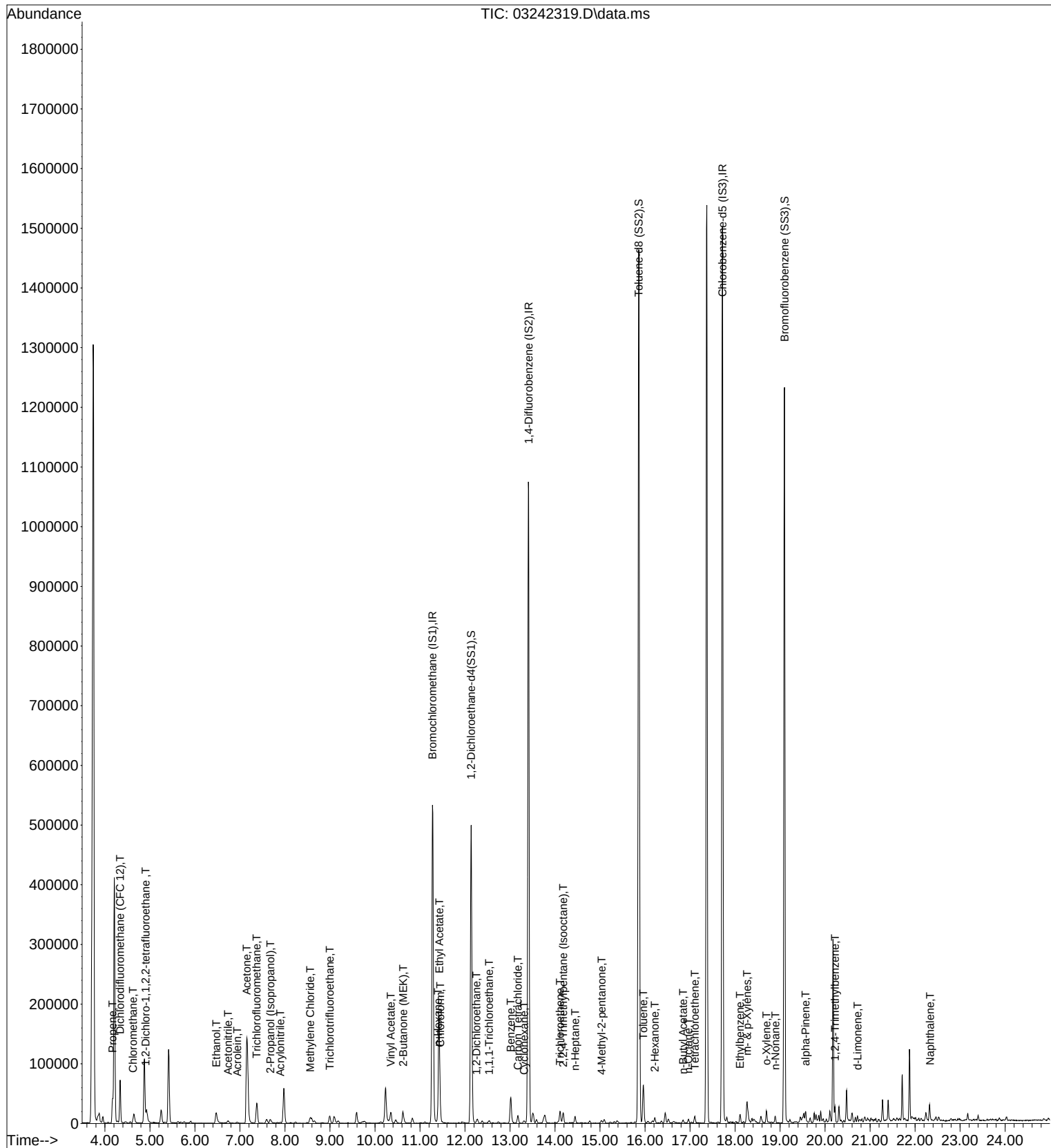
						Qvalue
2) Propene	4.17	42	8989	0.319	ng	# 55
3) Dichlorodifluoromethan...	4.34	85	60908	1.951	ng	99
4) Chloromethane	4.62	50	6411	0.220	ng	94
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	1526	0.088	ng	89
10) Ethanol	6.47	45	32641	1.624	ng	95
11) Acetonitrile	6.74	41	5475	0.109	ng	95
12) Acrolein	6.94	56	2198	0.154	ng	90
13) Acetone	7.15	58	54631	3.553	ng	# 68
14) Trichlorofluoromethane	7.37	101	33097	1.149	ng	99
15) 2-Propanol (Isopropanol)	7.68	45	13409	0.250	ng	91
16) Acrylonitrile	7.90	53	1486	0.052	ng	96
19) Methylene Chloride	8.56	84	4669	0.275	ng	88
21) Trichlorotrifluoroethane	9.00	151	5163	0.360	ng	91
26) Vinyl Acetate	10.35	86	741	0.216	ng	# 1
27) 2-Butanone (MEK)	10.62	72	6879	0.617	ng	94
30) Ethyl Acetate	11.43	61	31600	4.334	ng	96
31) n-Hexane	11.40	57	7024	0.193	ng	96
32) Chloroform	11.45	83	3114	0.112	ng	100
36) 1,2-Dichloroethane	12.25	62	1178	0.052	ng	77
38) 1,1,1-Trichloroethane	12.53	97	2468	0.095	ng	96
41) Benzene	13.02	78	32081	0.476	ng	98
42) Carbon Tetrachloride	13.18	117	6974	0.318	ng	98
43) Cyclohexane	13.31	84	1588	0.056	ng	93
47) Trichloroethene	14.11	130	6795	0.371	ng	99
49) 2,2,4-Trimethylpentane...	14.18	57	16344	0.180	ng	74
51) n-Heptane	14.45	71	2693	0.136	ng	97
53) 4-Methyl-2-pentanone	15.03	58	1089	0.070	ng	# 40
58) Toluene	15.96	91	49231	0.595	ng	97
59) 2-Hexanone	16.22	43	7780	0.178	ng	85
62) n-Butyl Acetate	16.84	43	4455	0.089	ng	94
63) n-Octane	16.96	57	1099	0.052	ng	98
64) Tetrachloroethene	17.11	166	3273	0.155	ng	97
66) Ethylbenzene	18.11	91	11293	0.121	ng	100
67) m- & p-Xylenes	18.27	91	27665	0.375	ng	100
70) o-Xylene	18.70	91	10418	0.143	ng	99
71) n-Nonane	18.89	43	5015	0.097	ng	90
75) alpha-Pinene	19.57	93	6620	0.282	ng	91
82) 1,2,4-Trimethylbenzene	20.22	105	11294	0.152	ng	87
91) d-Limonene	20.72	68	2150	0.101	ng	93
95) Naphthalene	22.33	128	5450	0.060	ng	99

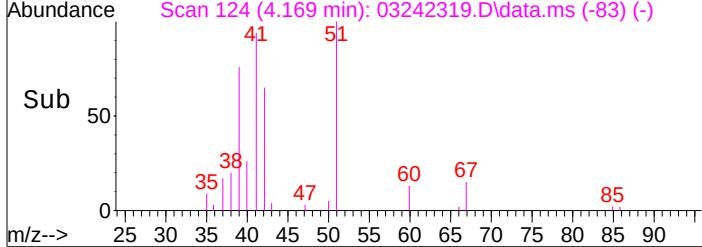
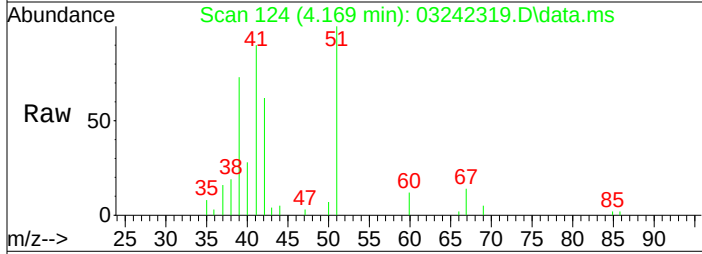
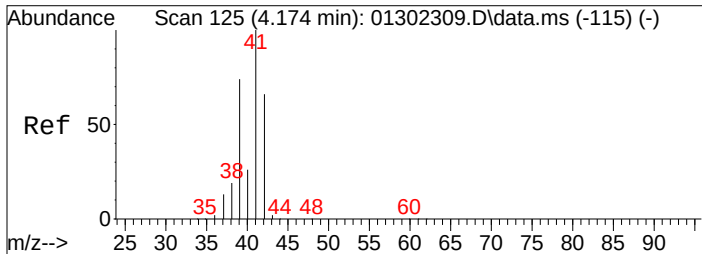
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS16\DATA\2023_03\24\03242319.D
Acq On : 24 Mar 2023 16:51
Sample : P2301250-043 (1000mL)
Misc : S35-01312301

Vial: 5
Operator: WA
Inst : GCMS-16

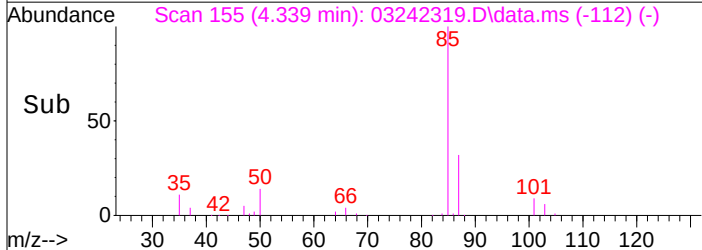
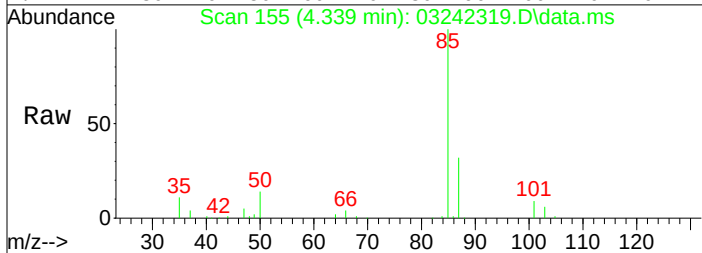
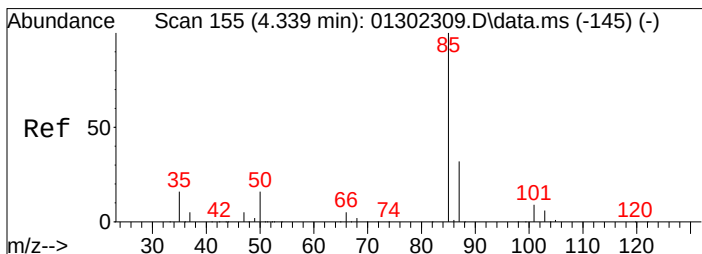
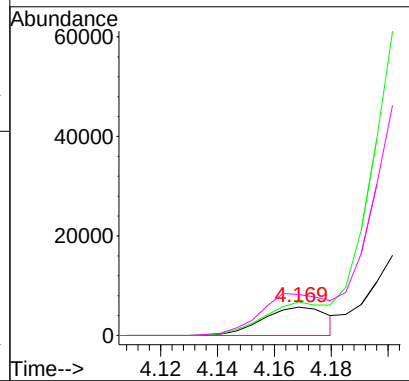
Quant Time: Mar 26 20:38:05 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M





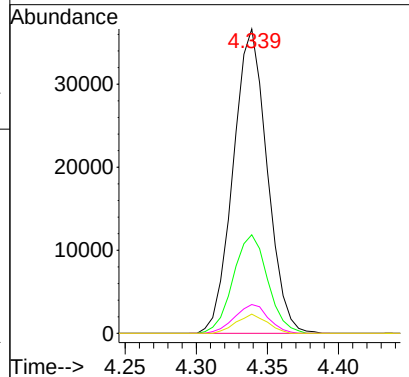
#2
 Propene
 Concen: 0.32 ng
 RT: 4.17 min Scan# 124
 Delta R.T. -0.022 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 16:51

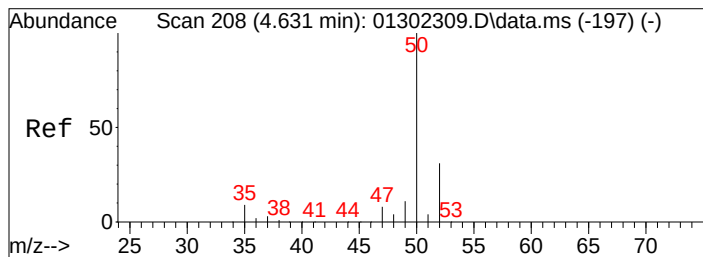
Tgt Ion:	42	Resp:	8989
Ion Ratio	Lower	Upper	
42	100		
39	0.0	87.4	127.4#
41	156.4	131.0	171.0



#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.95 ng
 RT: 4.34 min Scan# 155
 Delta R.T. -0.011 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 16:51

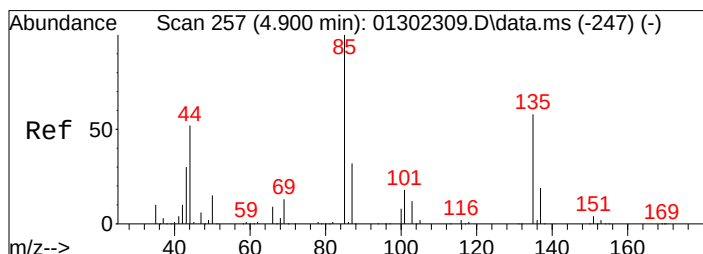
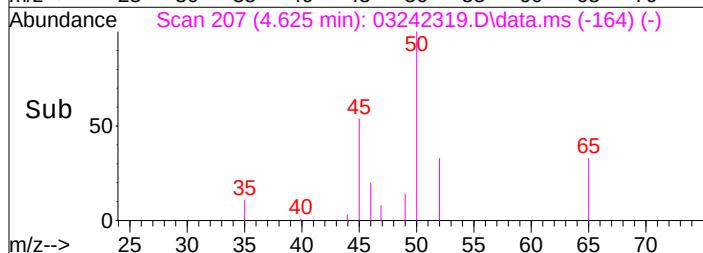
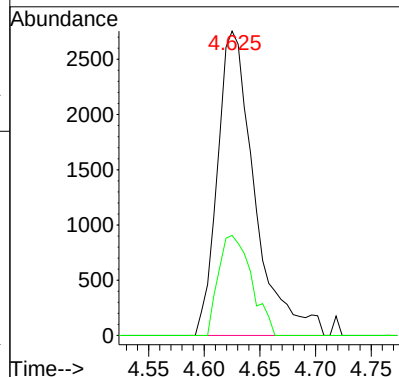
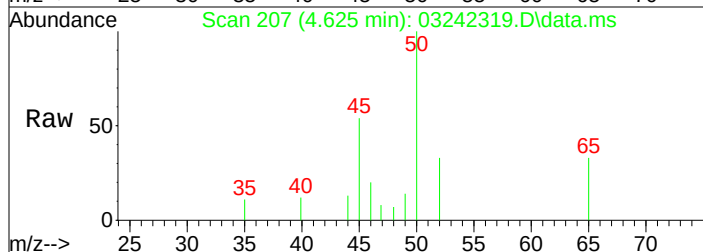
Tgt Ion:	85	Resp:	60908
Ion Ratio	Lower	Upper	
85	100		
87	32.9	12.1	52.1
101	9.4	0.0	29.3
103	5.7	0.0	26.0





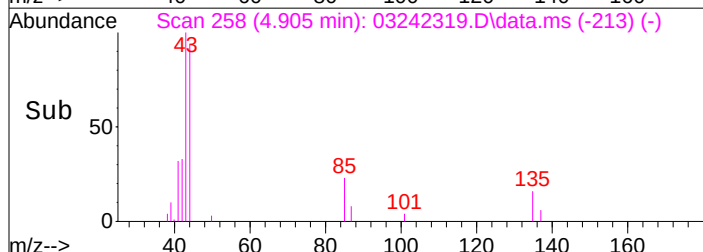
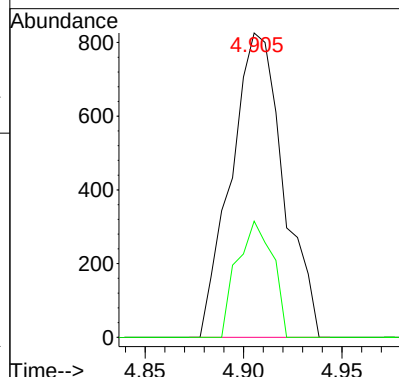
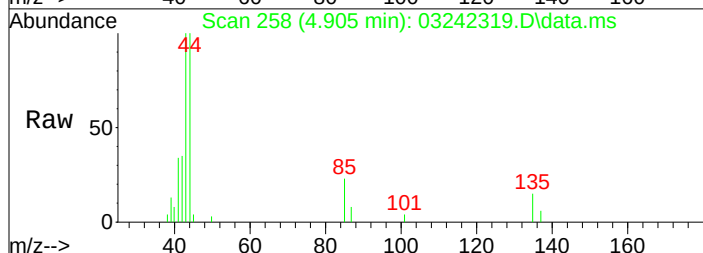
#4
Chloromethane
Concen: 0.22 ng
RT: 4.62 min Scan# 207
Delta R.T. -0.011 min
Lab File: 03242319.D
Acq: 24 Mar 2023 16:51

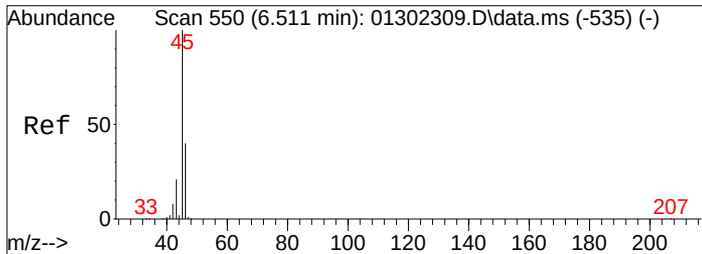
Tgt Ion: 50 Resp: 6411
Ion Ratio Lower Upper
50 100
52 29.0 12.2 52.2



#5
1,2-Dichloro-1,1,2,2-tetrafluoroethane
Concen: 0.09 ng
RT: 4.91 min Scan# 258
Delta R.T. 0.000 min
Lab File: 03242319.D
Acq: 24 Mar 2023 16:51

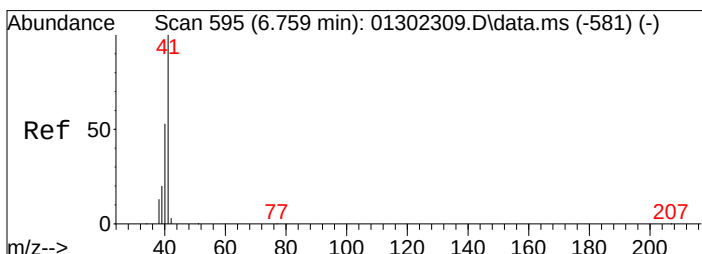
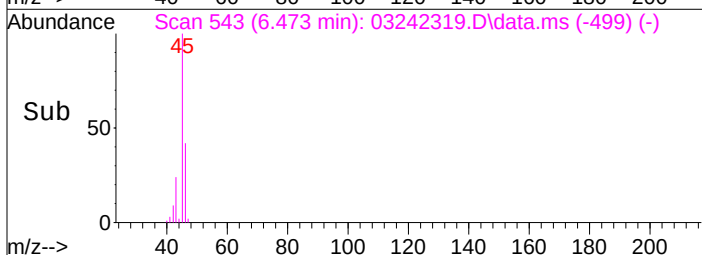
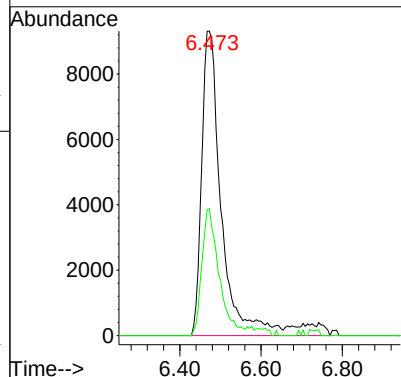
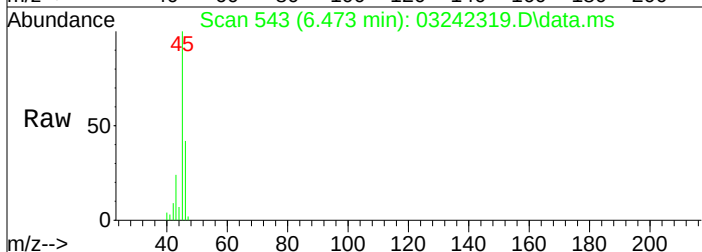
Tgt Ion: 135 Resp: 1526
Ion Ratio Lower Upper
135 100
137 26.0 12.0 52.0





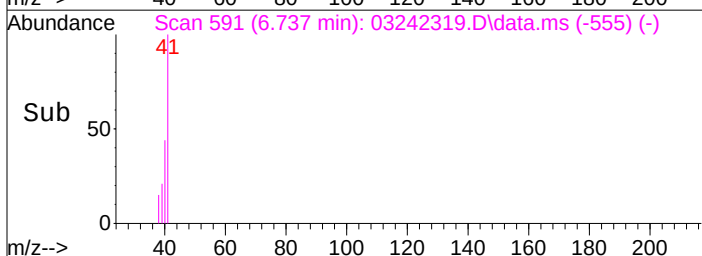
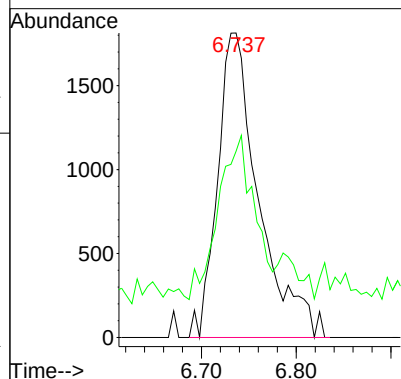
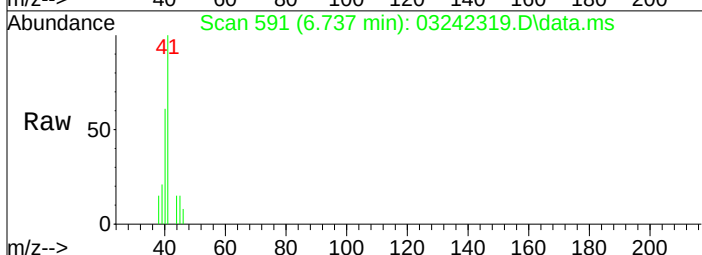
#10
Ethanol
Concen: 1.62 ng
RT: 6.47 min Scan# 543
Delta R.T. -0.005 min
Lab File: 03242319.D
Acq: 24 Mar 2023 16:51

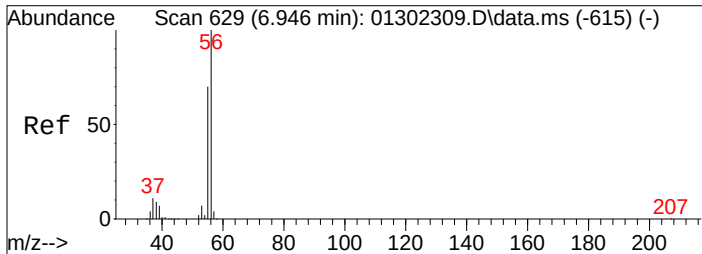
Tgt Ion: 45 Resp: 32641
Ion Ratio Lower Upper
45 100
46 37.2 20.5 60.5



#11
Acetonitrile
Concen: 0.11 ng
RT: 6.74 min Scan# 591
Delta R.T. -0.000 min
Lab File: 03242319.D
Acq: 24 Mar 2023 16:51

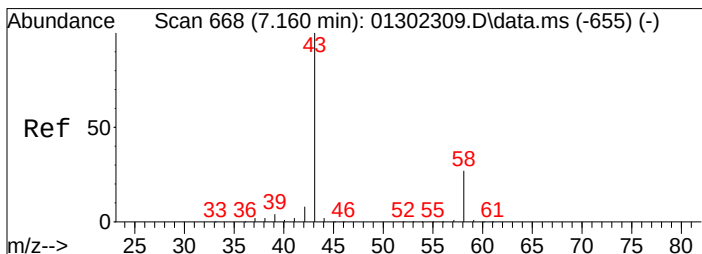
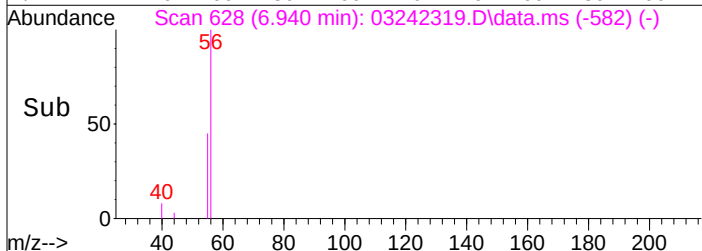
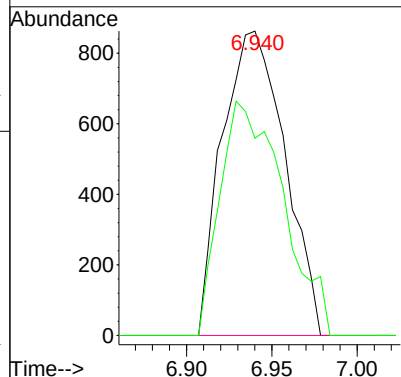
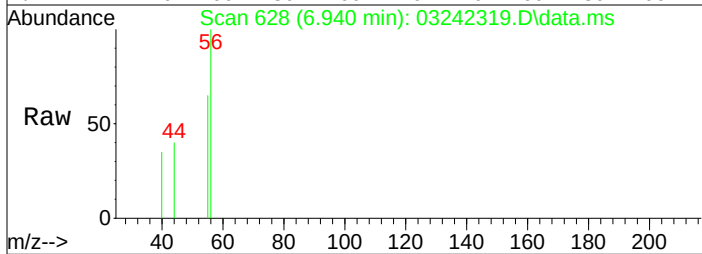
Tgt Ion: 41 Resp: 5475
Ion Ratio Lower Upper
41 100
40 56.1 32.4 72.4





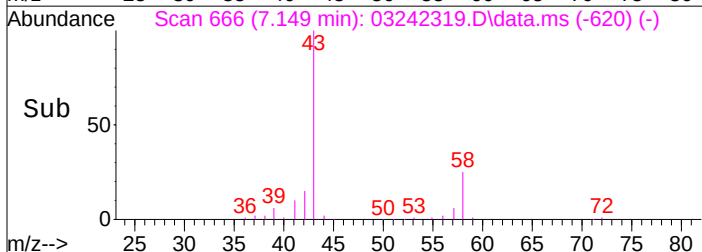
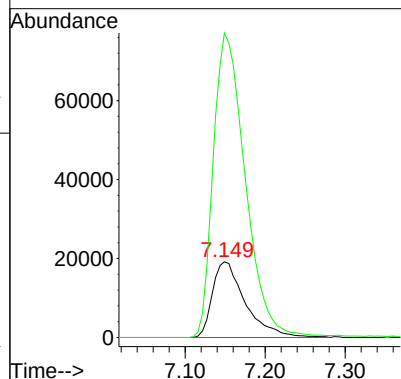
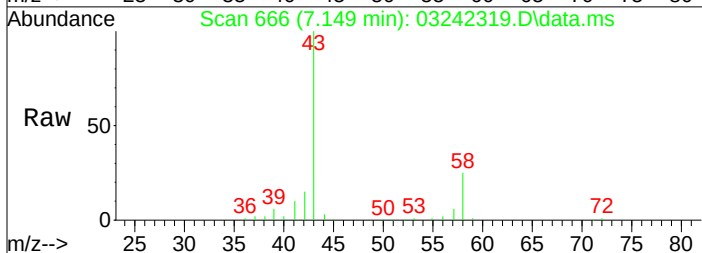
#12
Acrolein
Concen: 0.15 ng
RT: 6.94 min Scan# 628
Delta R.T. 0.005 min
Lab File: 03242319.D
Acq: 24 Mar 2023 16:51

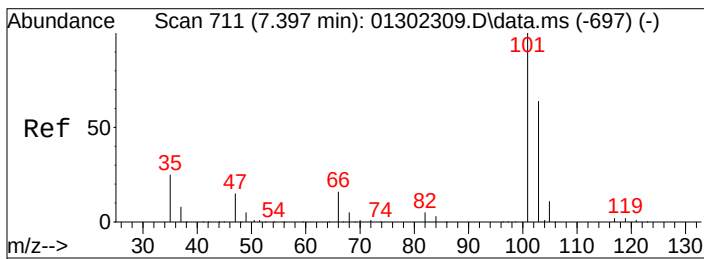
Tgt Ion: 56 Resp: 2198
Ion Ratio Lower Upper
56 100
55 77.8 49.9 89.9



#13
Acetone
Concen: 3.55 ng
RT: 7.15 min Scan# 666
Delta R.T. 0.005 min
Lab File: 03242319.D
Acq: 24 Mar 2023 16:51

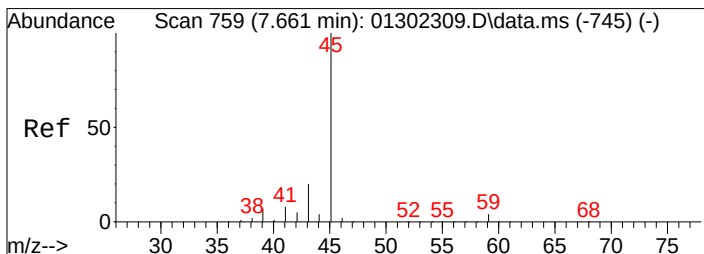
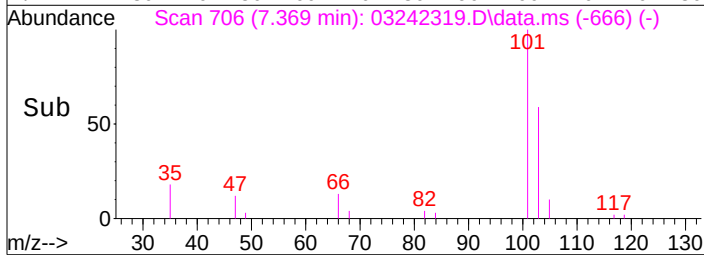
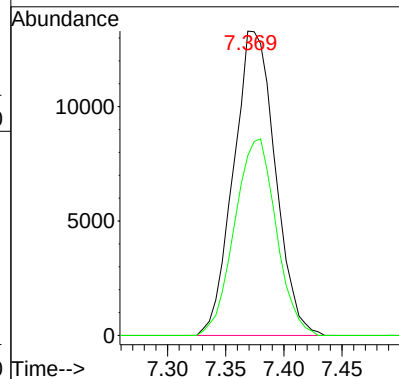
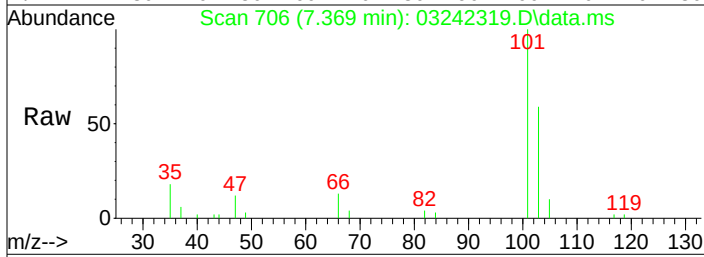
Tgt Ion: 58 Resp: 54631
Ion Ratio Lower Upper
58 100
43 394.3 298.5 358.5#





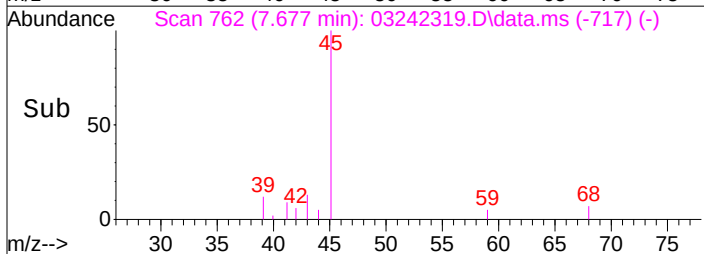
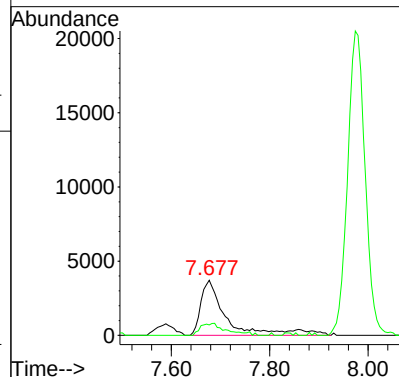
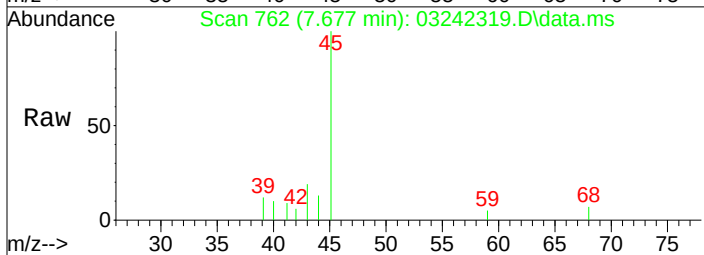
#14
 Trichlorofluoromethane
 Concen: 1.15 ng
 RT: 7.37 min Scan# 706
 Delta R.T. -0.027 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 16:51

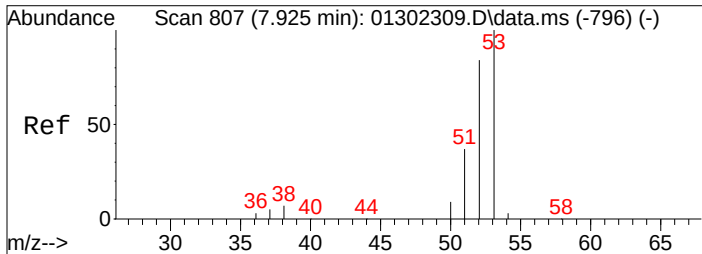
Tgt Ion: 101 Resp: 33097
 Ion Ratio Lower Upper
 101 100
 103 64.4 44.8 84.8



#15
 2-Propanol (Isopropanol)
 Concen: 0.25 ng
 RT: 7.68 min Scan# 762
 Delta R.T. -0.003 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 16:51

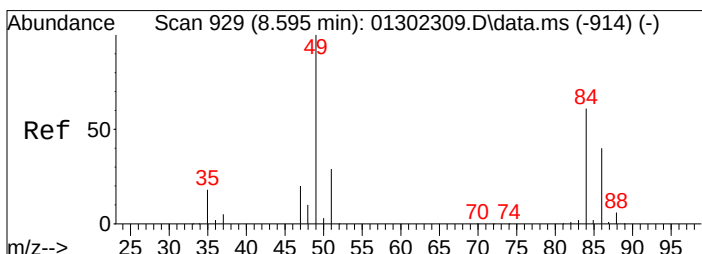
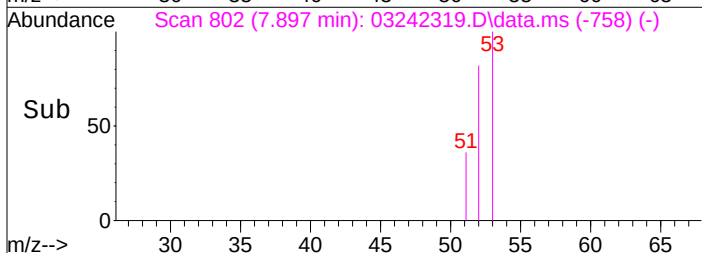
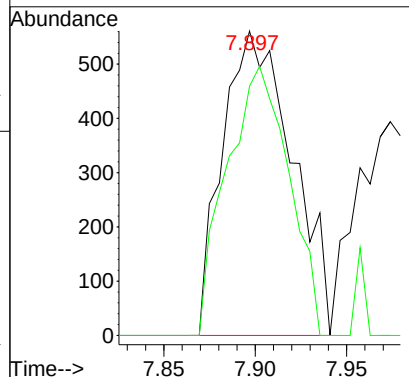
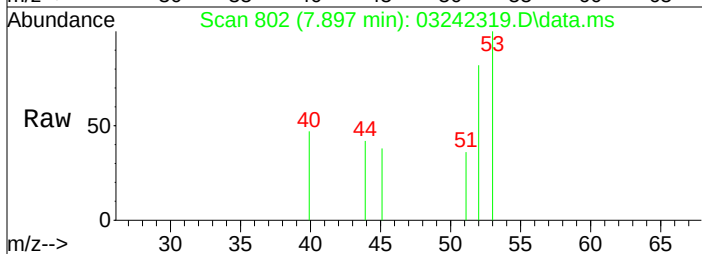
Tgt Ion: 45 Resp: 13409
 Ion Ratio Lower Upper
 45 100
 43 22.0 0.0 37.9





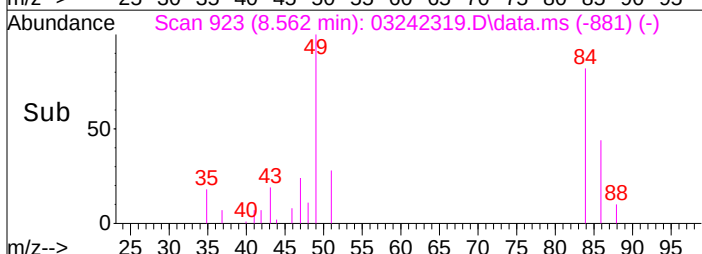
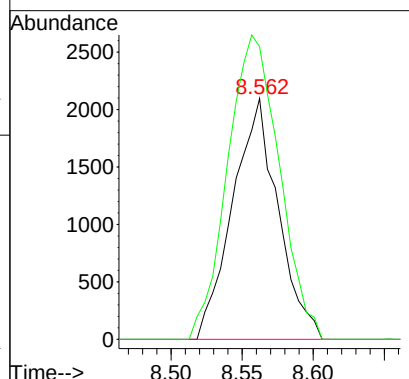
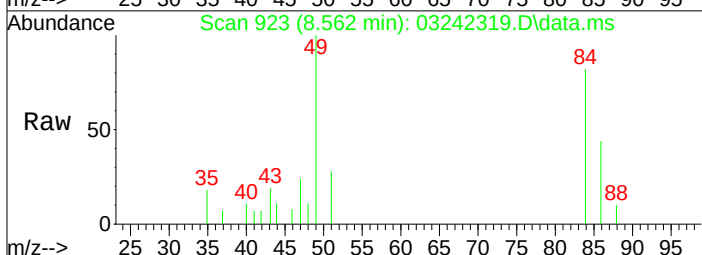
#16
 Acrylonitrile
 Concen: 0.05 ng
 RT: 7.90 min Scan# 802
 Delta R.T. -0.005 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 16:51

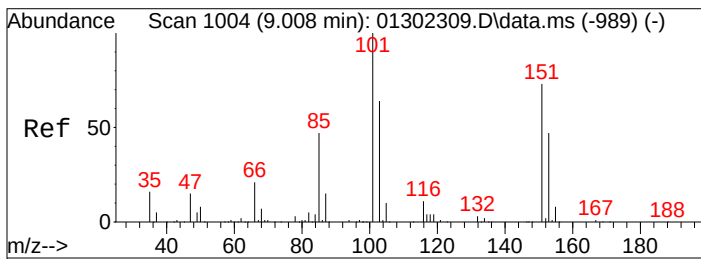
Tgt Ion: 53 Resp: 1486
 Ion Ratio Lower Upper
 53 100
 52 78.9 62.1 102.1



#19
 Methylene Chloride
 Concen: 0.27 ng
 RT: 8.56 min Scan# 923
 Delta R.T. -0.016 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 16:51

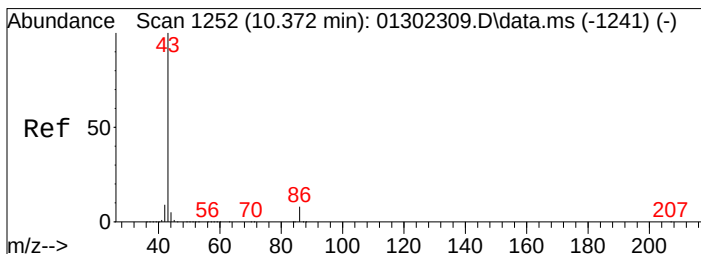
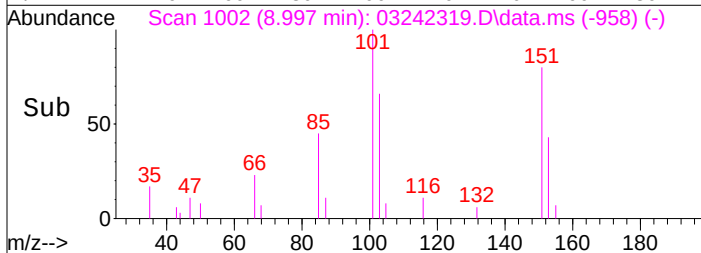
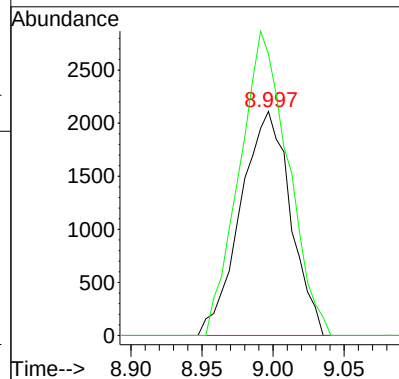
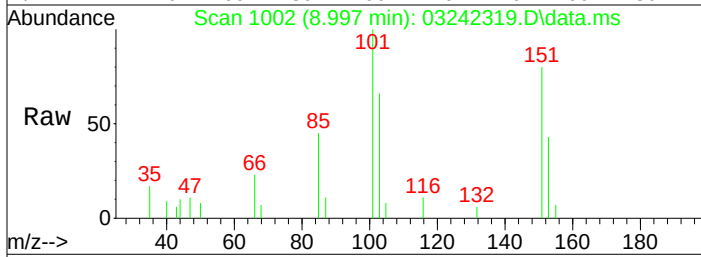
Tgt Ion: 84 Resp: 4669
 Ion Ratio Lower Upper
 84 100
 49 143.8 135.0 185.0





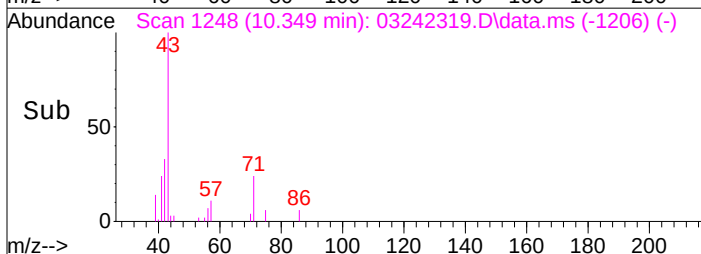
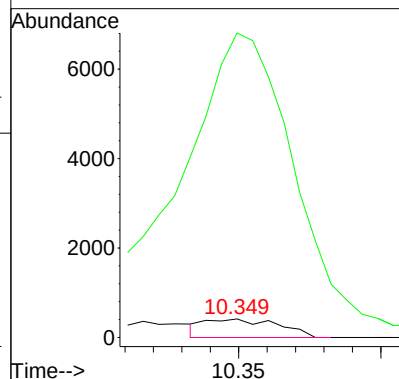
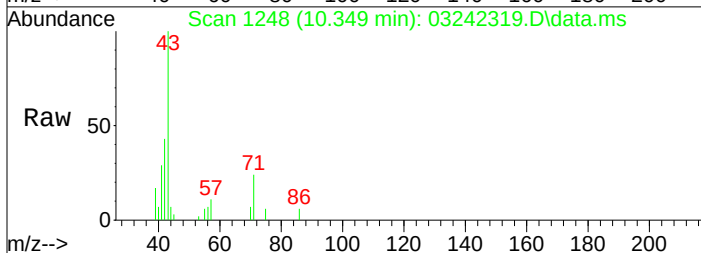
#21
 Trichlorotrifluoroethane
 Concen: 0.36 ng
 RT: 9.00 min Scan# 1002
 Delta R.T. -0.005 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 16:51

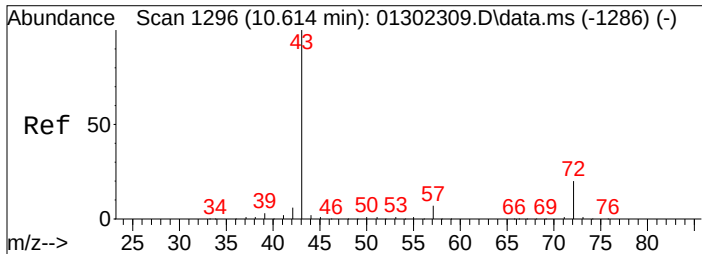
Tgt Ion: 151 Resp: 5163
 Ion Ratio Lower Upper
 151 100
 101 132.1 101.5 141.5



#26
 Vinyl Acetate
 Concen: 0.22 ng
 RT: 10.35 min Scan# 1248
 Delta R.T. -0.017 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 16:51

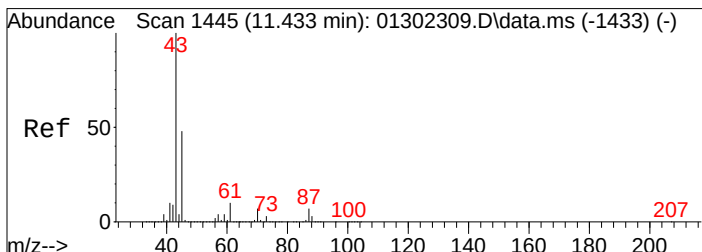
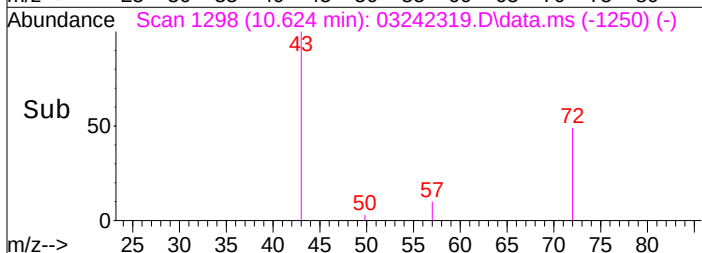
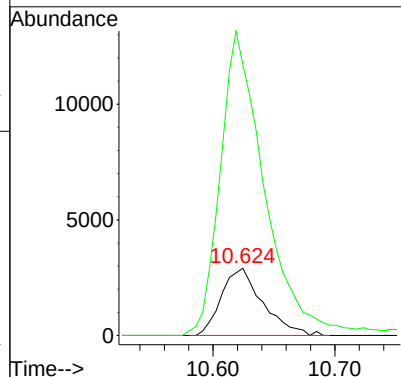
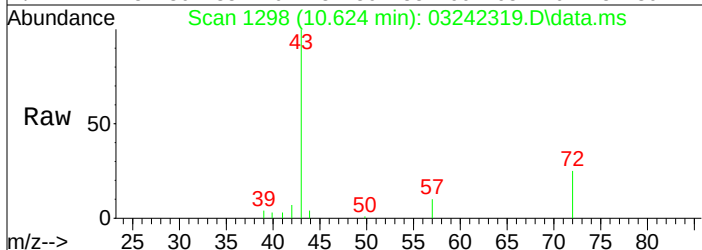
Tgt Ion: 86 Resp: 741
 Ion Ratio Lower Upper
 86 100
 43 2816.2 1219.3 1259.3#





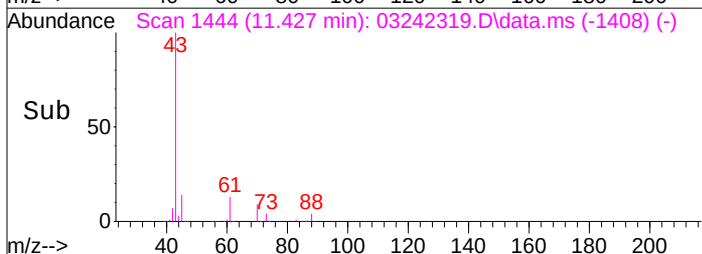
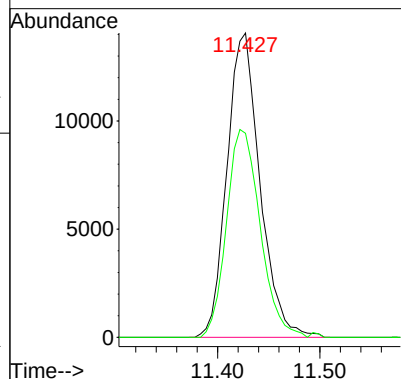
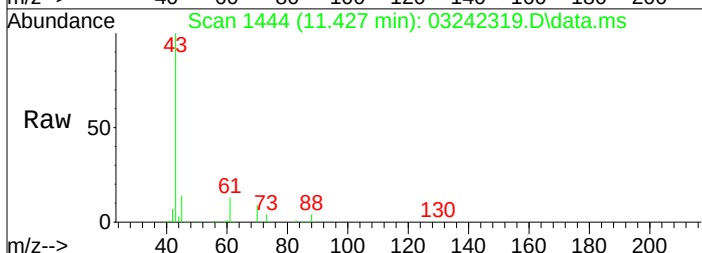
#27
 2-Butanone (MEK)
 Concen: 0.62 ng
 RT: 10.62 min Scan# 1298
 Delta R.T. 0.016 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 16:51

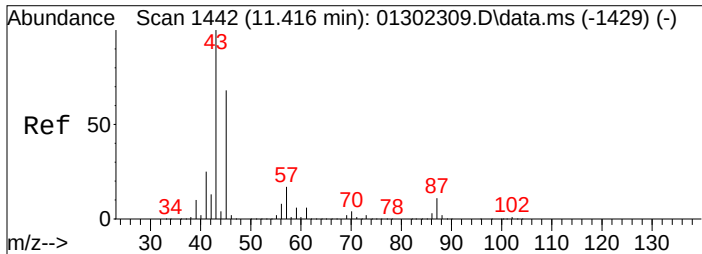
Tgt Ion: 72 Resp: 6879
 Ion Ratio Lower Upper
 72 100
 43 485.9 449.4 489.4



#30
 Ethyl Acetate
 Concen: 4.33 ng
 RT: 11.43 min Scan# 1444
 Delta R.T. 0.000 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 16:51

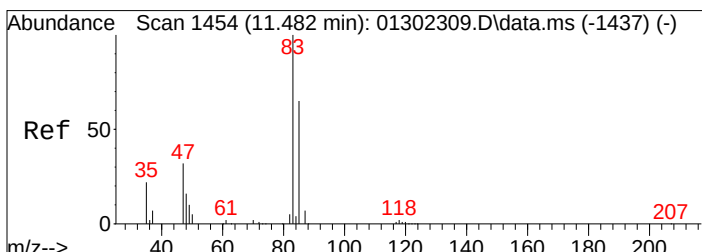
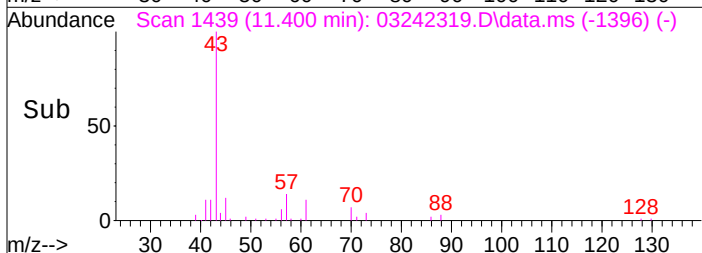
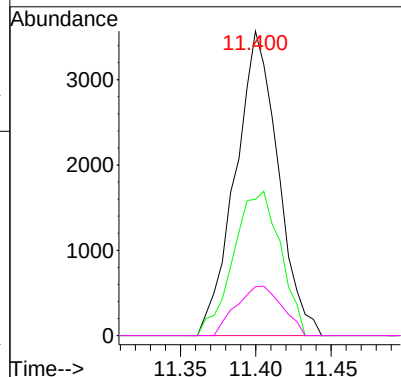
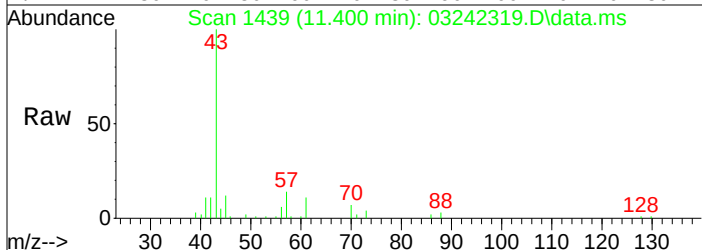
Tgt Ion: 61 Resp: 31600
 Ion Ratio Lower Upper
 61 100
 70 69.4 52.8 92.8





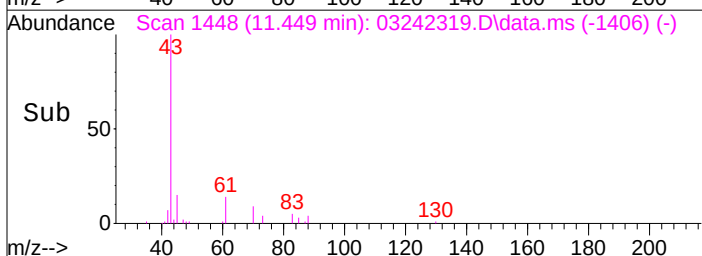
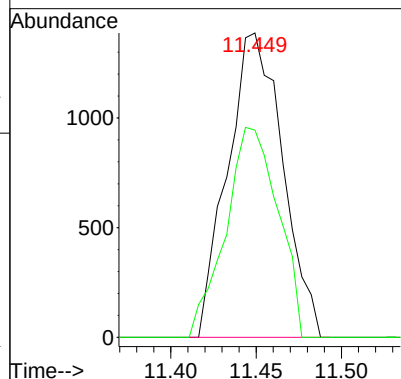
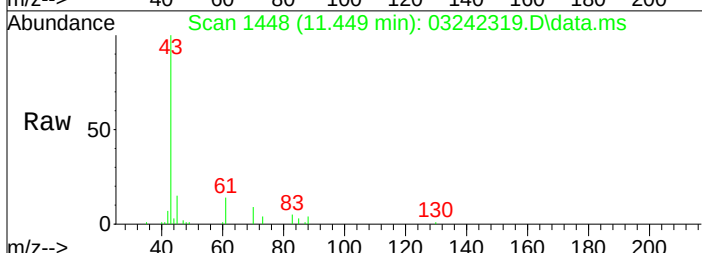
#31
n-Hexane
Concen: 0.19 ng
RT: 11.40 min Scan# 1439
Delta R.T. -0.011 min
Lab File: 03242319.D
Acq: 24 Mar 2023 16:51

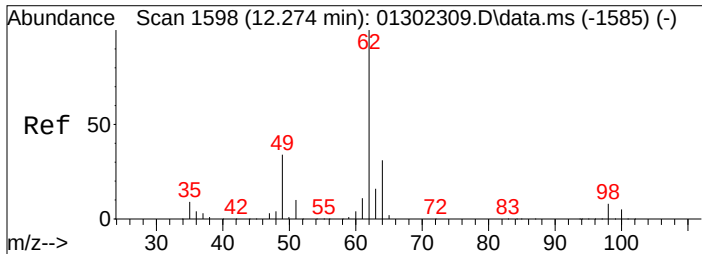
Tgt Ion:	57	Resp:	7024
Ion Ratio		Lower	Upper
57	100		
56	52.1	39.9	59.9
86	17.5	12.3	18.5



#32
Chloroform
Concen: 0.11 ng
RT: 11.45 min Scan# 1448
Delta R.T. -0.017 min
Lab File: 03242319.D
Acq: 24 Mar 2023 16:51

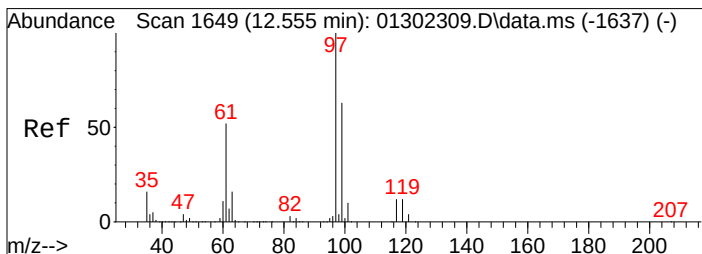
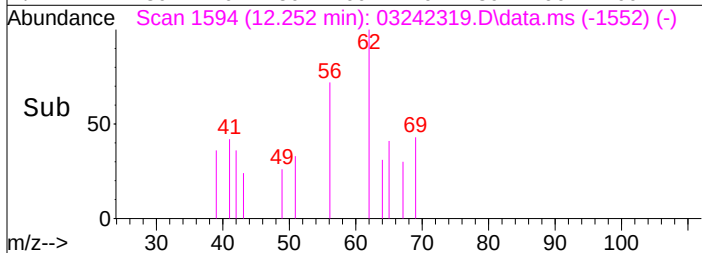
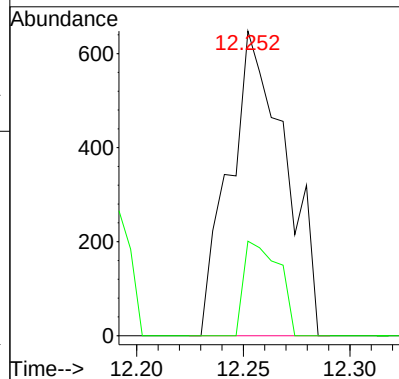
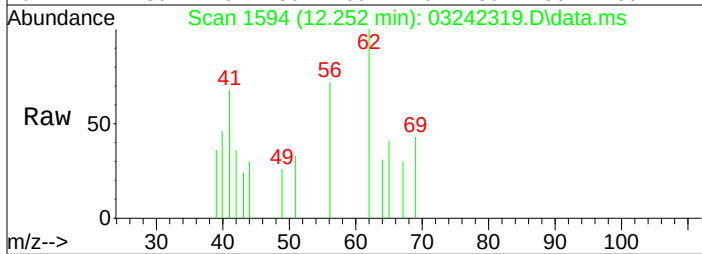
Tgt Ion:	83	Resp:	3114
Ion Ratio		Lower	Upper
83	100		
85	65.8	45.5	85.5





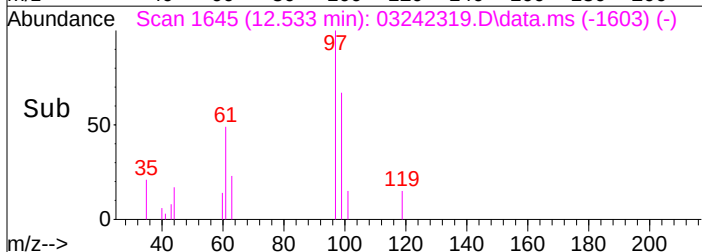
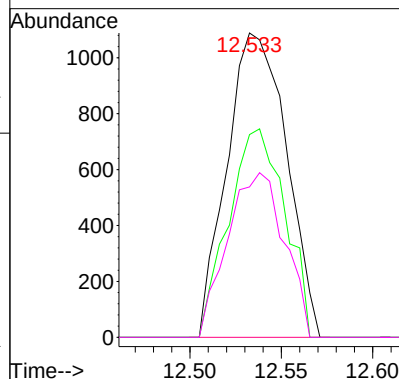
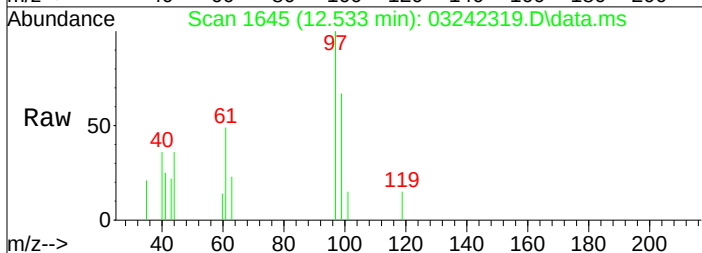
#36
 1,2-Dichloroethane
 Concen: 0.05 ng
 RT: 12.25 min Scan# 1594
 Delta R.T. -0.016 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 16:51

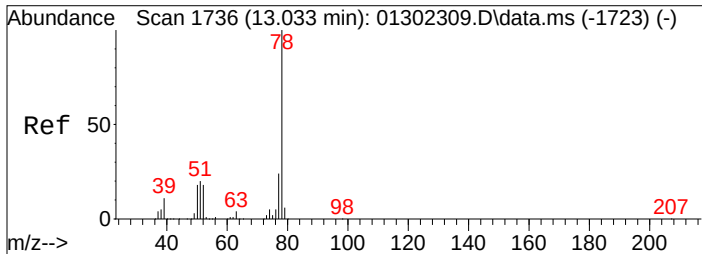
Tgt Ion: 62 Resp: 1178
 Ion Ratio Lower Upper
 62 100
 64 19.5 12.5 52.5



#38
 1,1,1-Trichloroethane
 Concen: 0.10 ng
 RT: 12.53 min Scan# 1645
 Delta R.T. -0.016 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 16:51

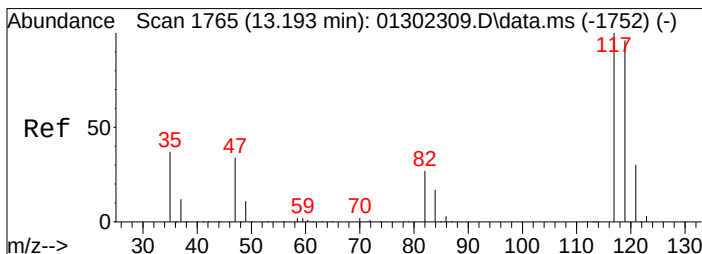
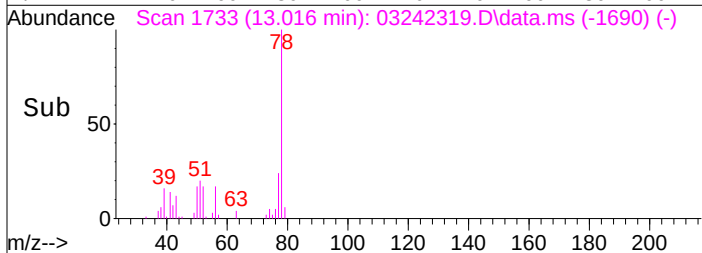
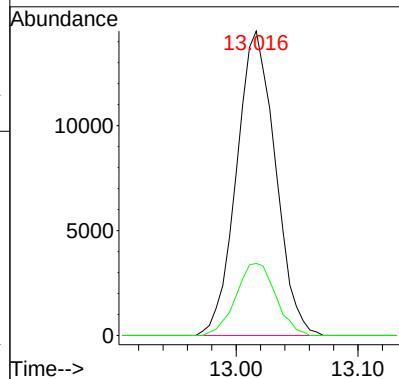
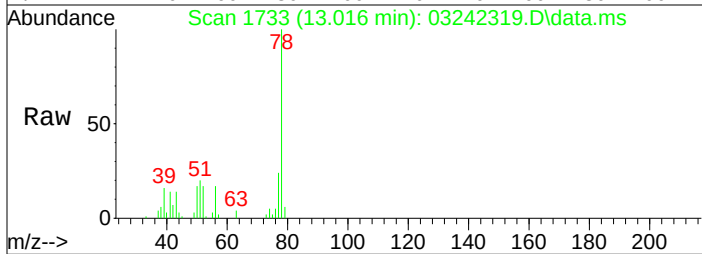
Tgt Ion: 97 Resp: 2468
 Ion Ratio Lower Upper
 97 100
 99 64.6 44.0 84.0
 61 51.7 26.8 66.8





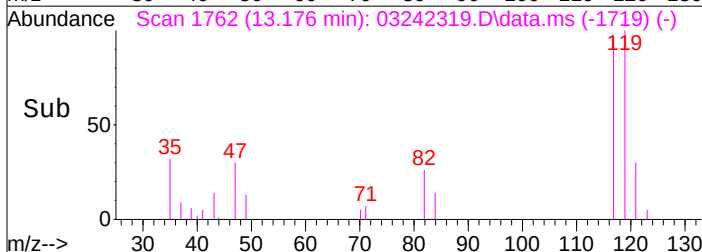
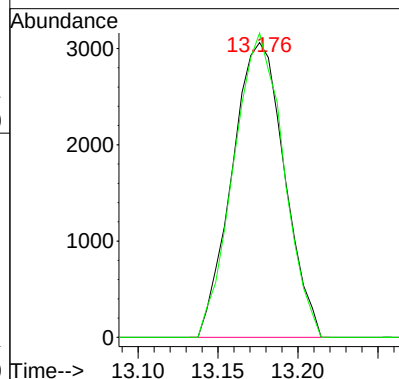
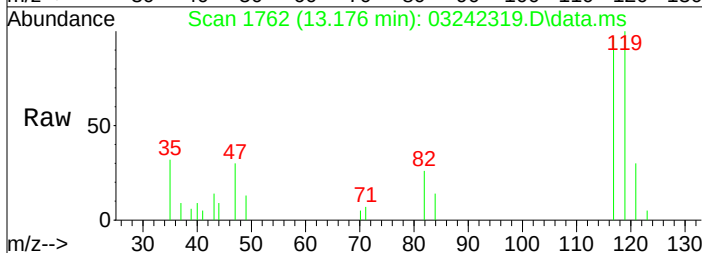
#41
Benzene
Concen: 0.48 ng
RT: 13.02 min Scan# 1733
Delta R.T. -0.011 min
Lab File: 03242319.D
Acq: 24 Mar 2023 16:51

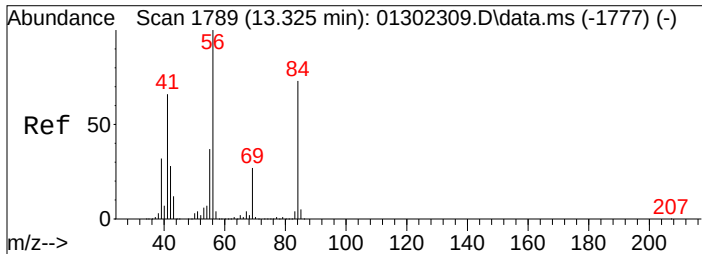
Tgt Ion: 78 Resp: 32081
Ion Ratio Lower Upper
78 100
77 24.2 3.3 43.3



#42
Carbon Tetrachloride
Concen: 0.32 ng
RT: 13.18 min Scan# 1762
Delta R.T. -0.011 min
Lab File: 03242319.D
Acq: 24 Mar 2023 16:51

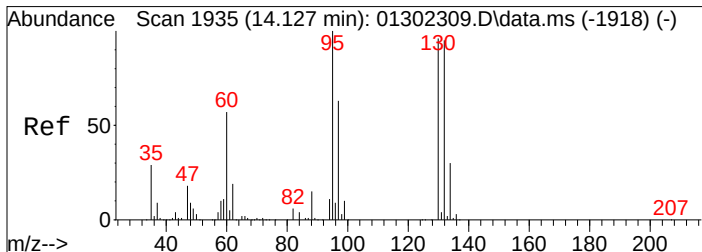
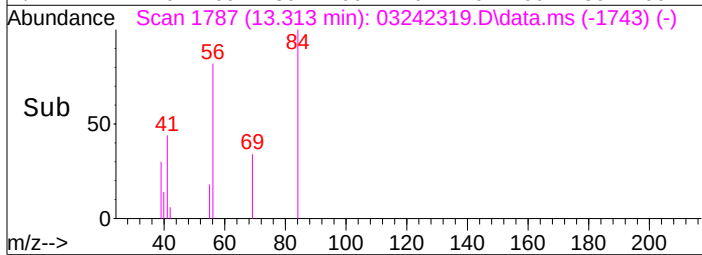
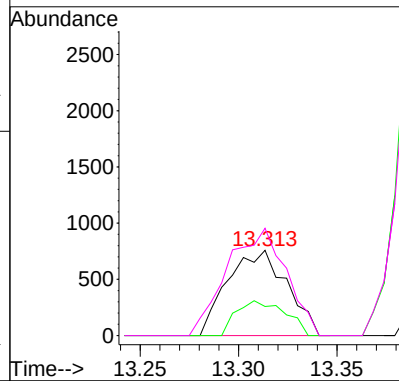
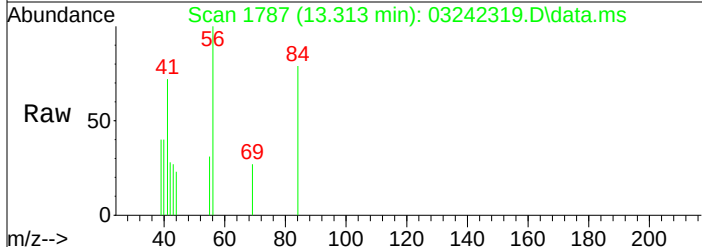
Tgt Ion: 117 Resp: 6974
Ion Ratio Lower Upper
117 100
119 98.3 76.2 116.2





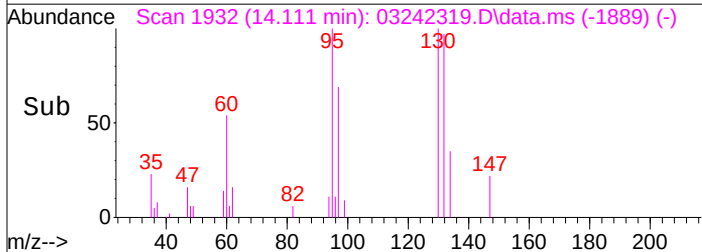
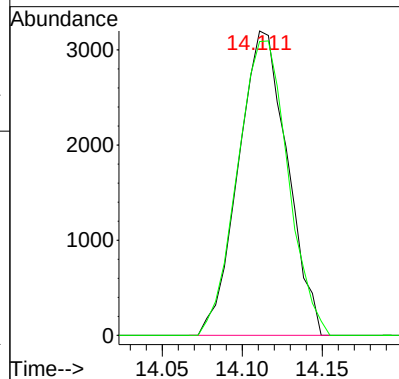
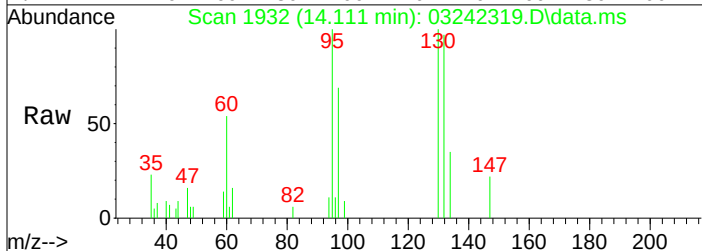
#43
Cyclohexane
Concen: 0.06 ng
RT: 13.31 min Scan# 1787
Delta R.T. -0.005 min
Lab File: 03242319.D
Acq: 24 Mar 2023 16:51

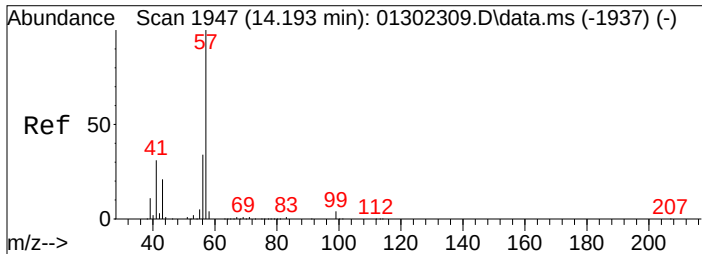
Tgt Ion:	84	Resp:	1588
Ion Ratio		Lower	Upper
84	100		
69	33.8	16.2	56.2
56	125.7	115.2	155.2



#47
Trichloroethene
Concen: 0.37 ng
RT: 14.11 min Scan# 1932
Delta R.T. -0.011 min
Lab File: 03242319.D
Acq: 24 Mar 2023 16:51

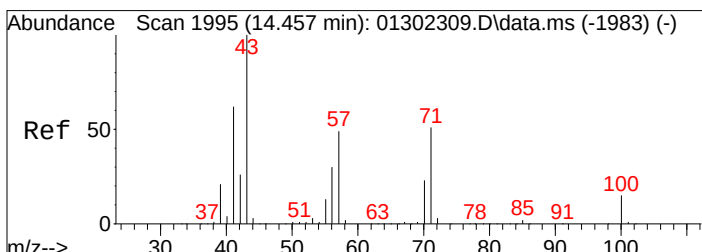
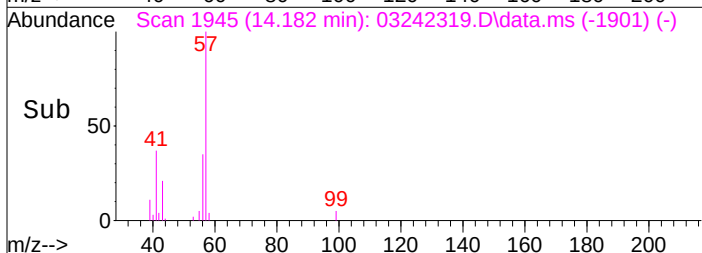
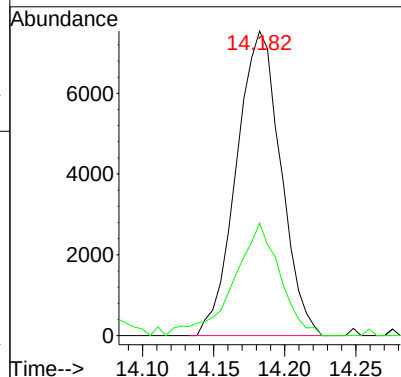
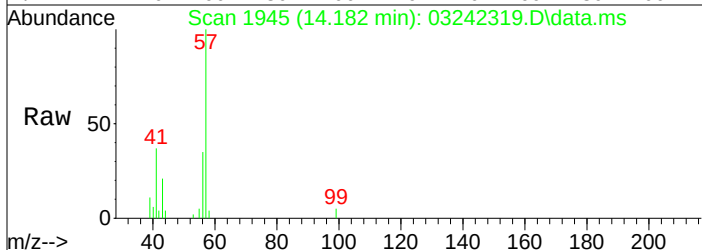
Tgt Ion:	130	Resp:	6795
Ion Ratio		Lower	Upper
130	100		
132	99.9	78.7	118.7





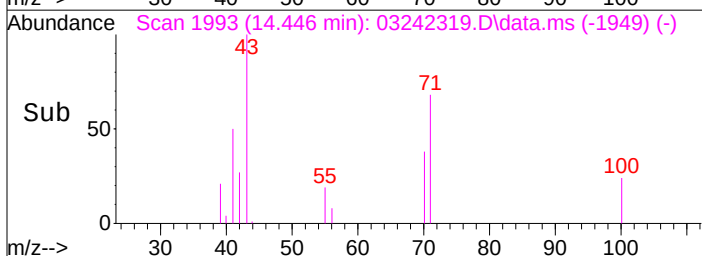
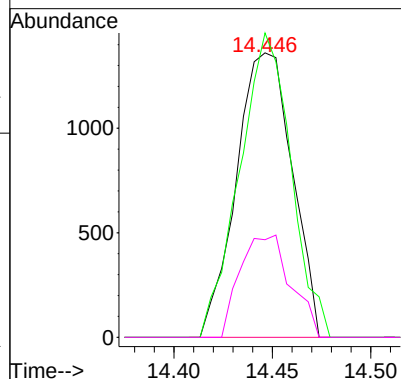
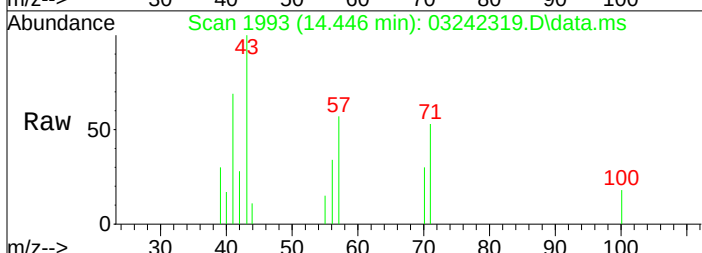
#49
2,2,4-Trimethylpentane (Isooctane)
Concen: 0.18 ng
RT: 14.18 min Scan# 1945
Delta R.T. -0.005 min
Lab File: 03242319.D
Acq: 24 Mar 2023 16:51

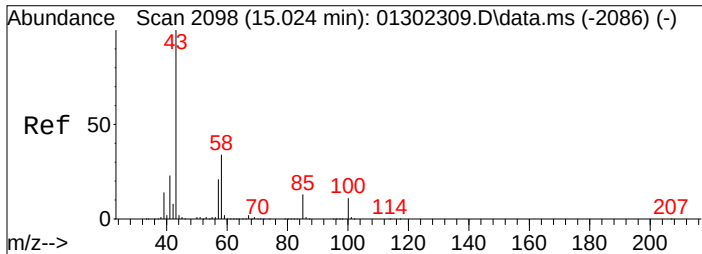
Tgt Ion: 57 Resp: 16344
Ion Ratio Lower Upper
57 100
41 38.8 5.8 45.8



#51
n-Heptane
Concen: 0.14 ng
RT: 14.45 min Scan# 1993
Delta R.T. -0.005 min
Lab File: 03242319.D
Acq: 24 Mar 2023 16:51

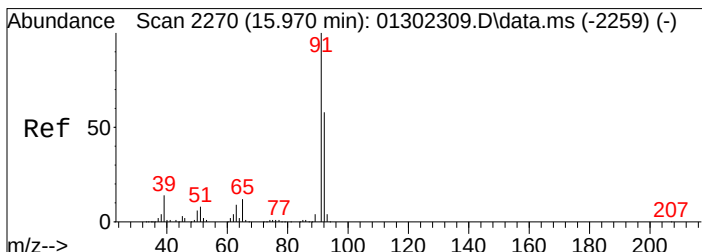
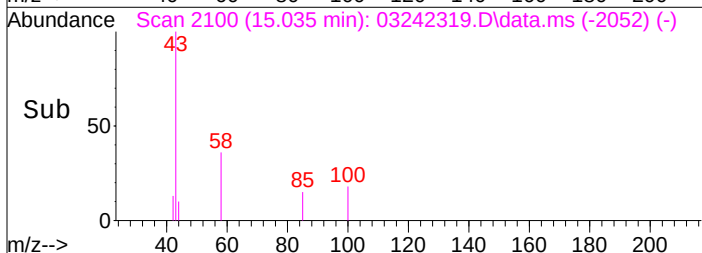
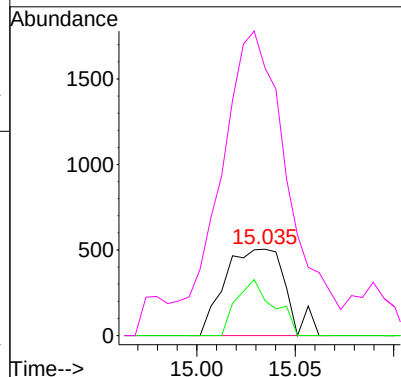
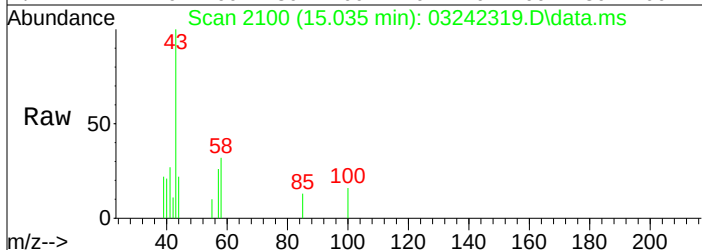
Tgt Ion: 71 Resp: 2693
Ion Ratio Lower Upper
71 100
57 98.5 81.4 121.4
100 32.6 11.8 51.8





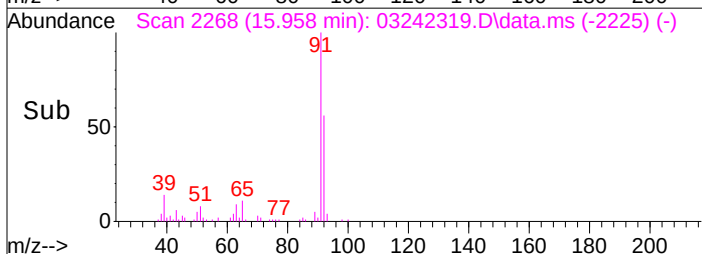
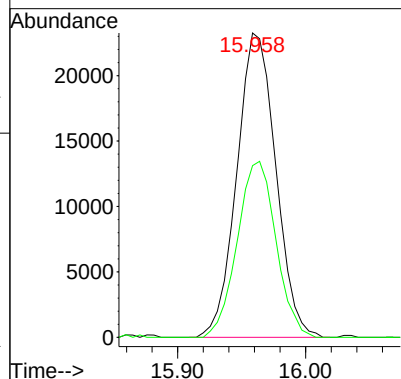
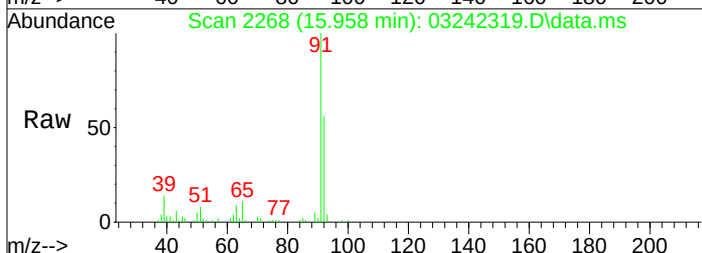
#53
 4-Methyl-2-pentanone
 Concen: 0.07 ng
 RT: 15.03 min Scan# 2100
 Delta R.T. 0.017 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 16:51

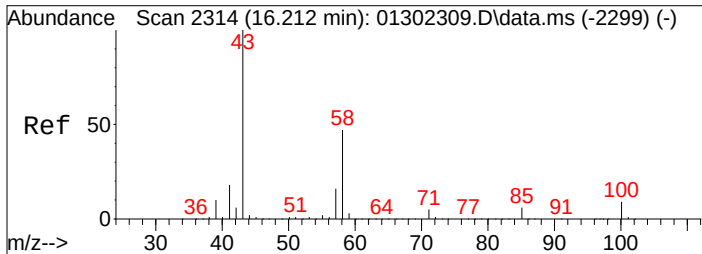
Tgt Ion:	58	Resp:	1089
Ion Ratio	Lower	Upper	
58	100		
85	39.6	31.7	47.5
43	393.3	214.3	321.5#



#58
 Toluene
 Concen: 0.60 ng
 RT: 15.96 min Scan# 2268
 Delta R.T. -0.011 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 16:51

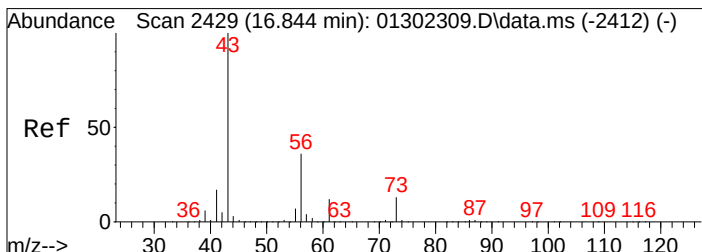
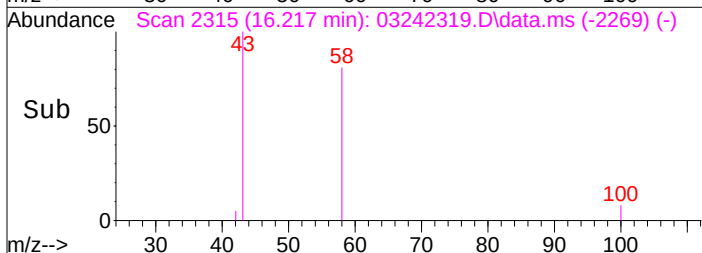
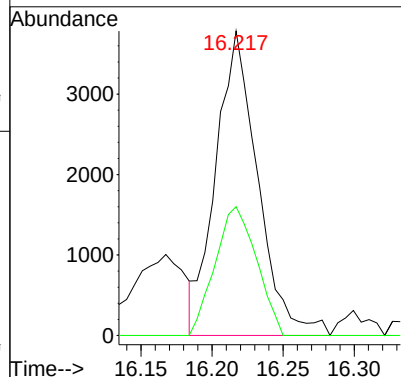
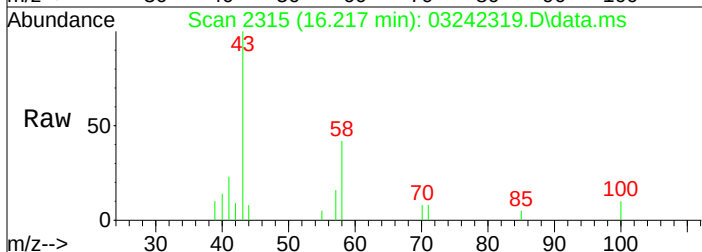
Tgt Ion:	91	Resp:	49231
Ion Ratio	Lower	Upper	
91	100		
92	57.4	39.8	79.8





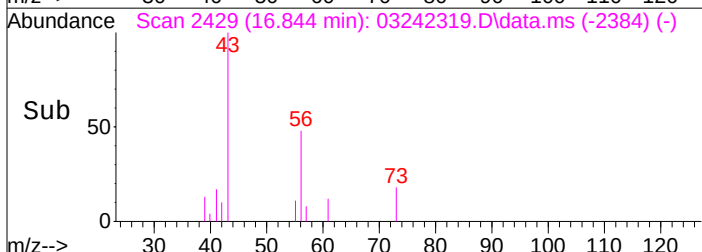
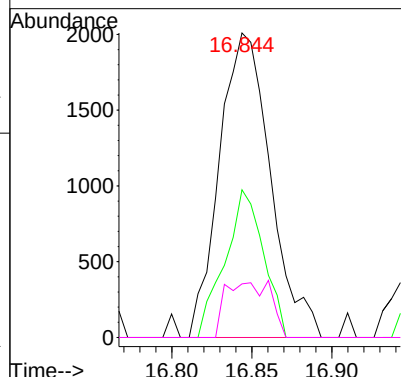
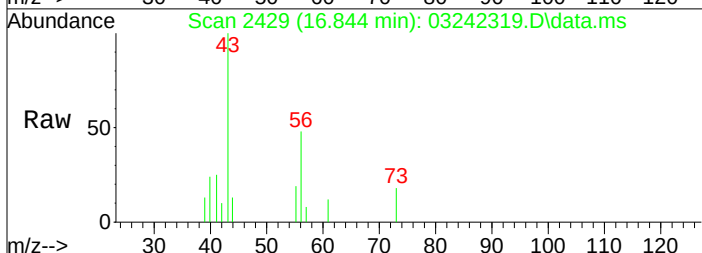
#59
2-Hexanone
Concen: 0.18 ng
RT: 16.22 min Scan# 2315
Delta R.T. 0.005 min
Lab File: 03242319.D
Acq: 24 Mar 2023 16:51

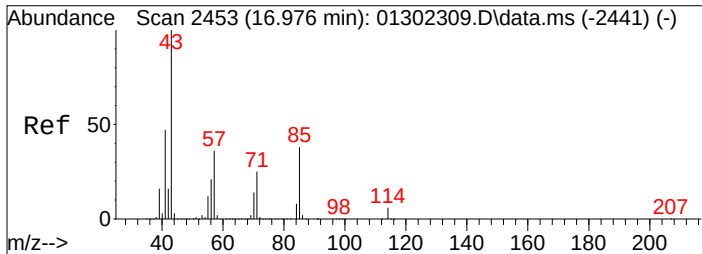
Tgt Ion: 43 Resp: 7780
Ion Ratio Lower Upper
43 100
58 41.7 32.3 72.3



#62
n-Butyl Acetate
Concen: 0.09 ng
RT: 16.84 min Scan# 2429
Delta R.T. -0.000 min
Lab File: 03242319.D
Acq: 24 Mar 2023 16:51

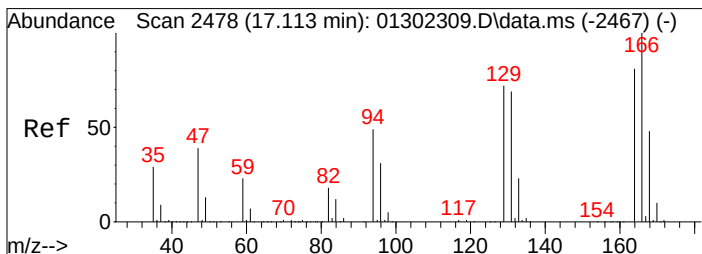
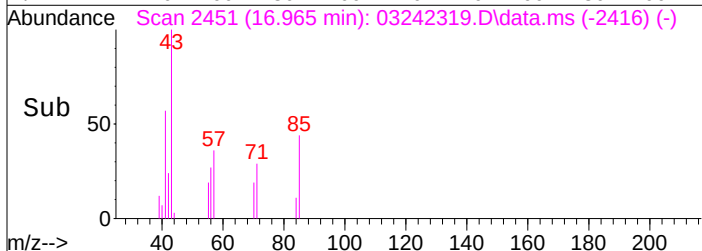
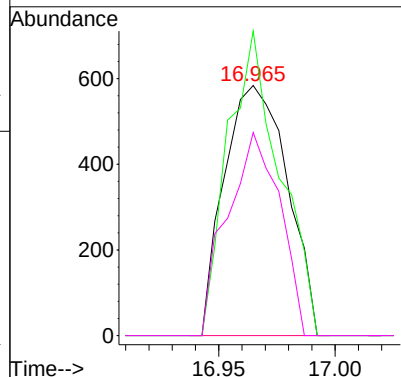
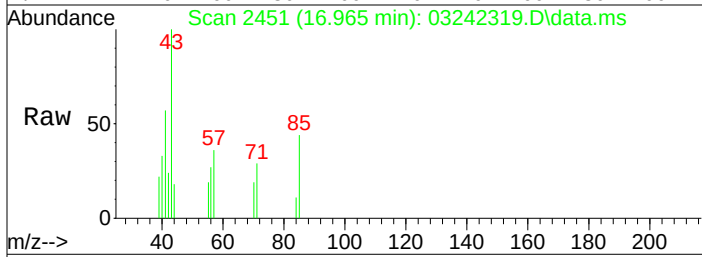
Tgt Ion: 43 Resp: 4455
Ion Ratio Lower Upper
43 100
56 36.7 21.0 61.0
73 16.1 0.0 34.3





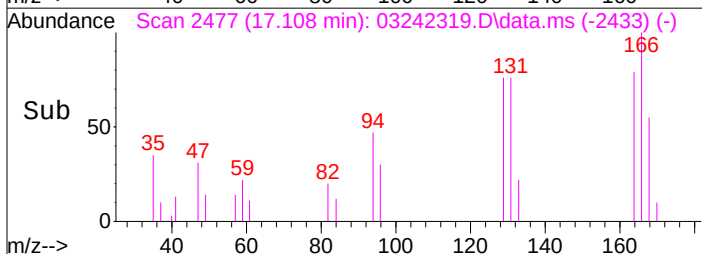
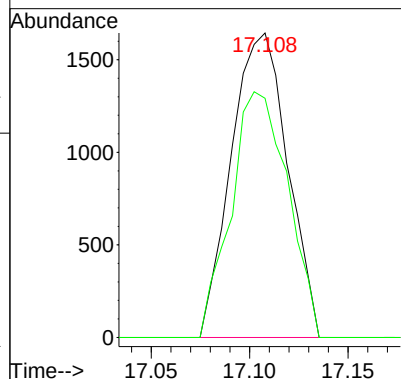
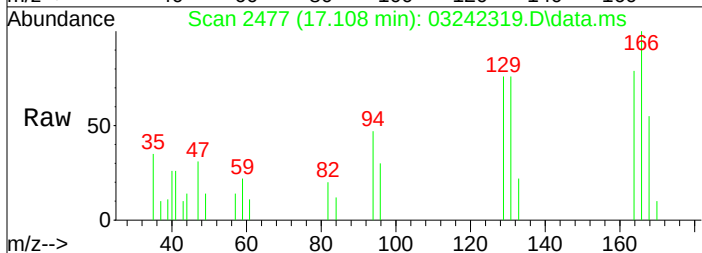
#63
n-Octane
Concen: 0.05 ng
RT: 16.96 min Scan# 2451
Delta R.T. -0.005 min
Lab File: 03242319.D
Acq: 24 Mar 2023 16:51

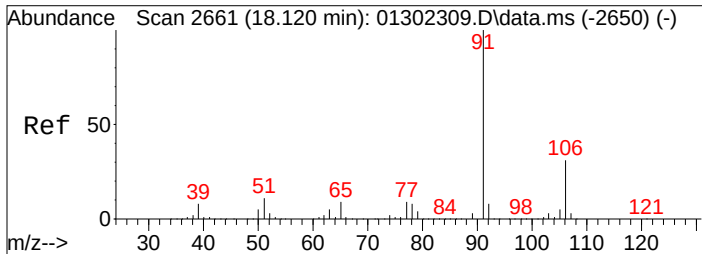
Tgt Ion: 57 Resp: 1099
Ion Ratio Lower Upper
57 100
85 100.4 81.4 122.2
71 67.5 51.7 77.5



#64
Tetrachloroethene
Concen: 0.16 ng
RT: 17.11 min Scan# 2477
Delta R.T. -0.005 min
Lab File: 03242319.D
Acq: 24 Mar 2023 16:51

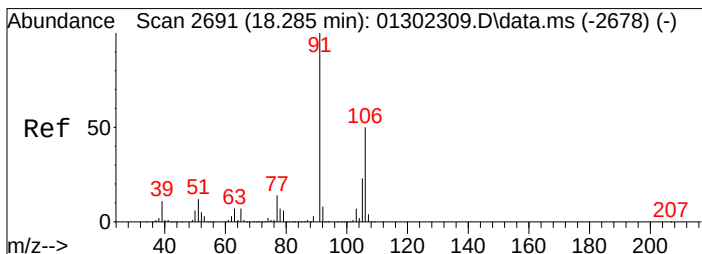
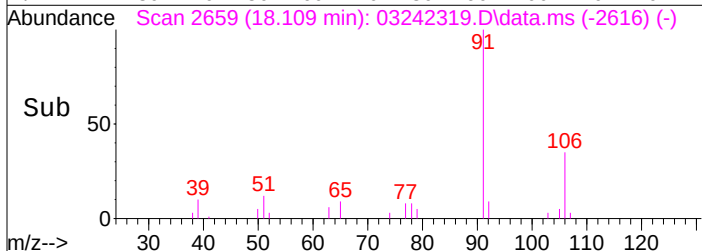
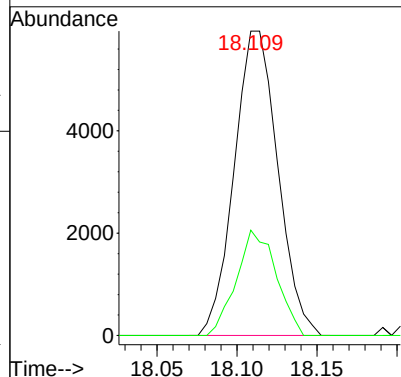
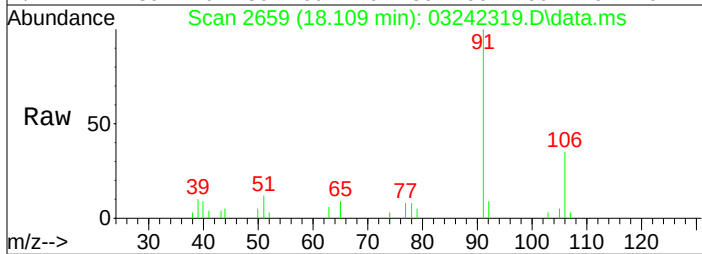
Tgt Ion: 166 Resp: 3273
Ion Ratio Lower Upper
166 100
164 81.3 58.7 98.7





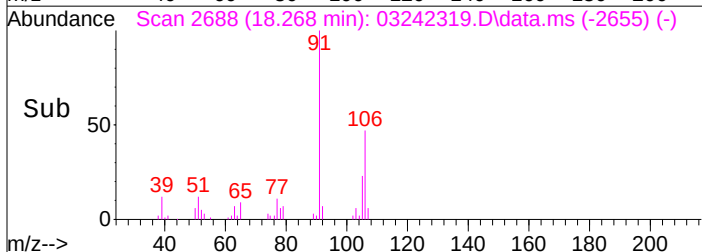
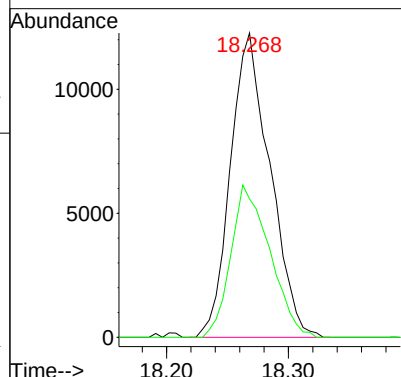
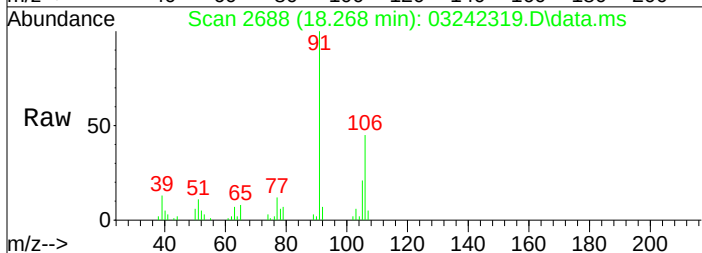
#66
Ethylbenzene
Concen: 0.12 ng
RT: 18.11 min Scan# 2659
Delta R.T. -0.011 min
Lab File: 03242319.D
Acq: 24 Mar 2023 16:51

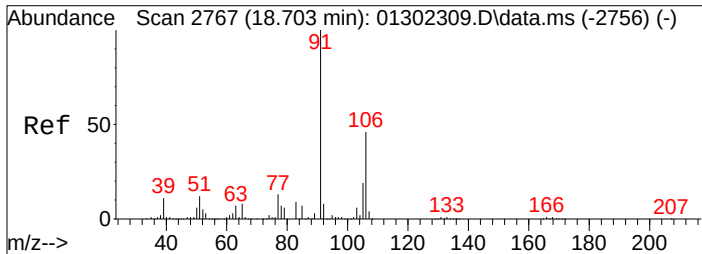
Tgt Ion: 91 Resp: 11293
Ion Ratio Lower Upper
91 100
106 31.5 11.5 51.5



#67
m- & p-Xylenes
Concen: 0.37 ng
RT: 18.27 min Scan# 2688
Delta R.T. -0.016 min
Lab File: 03242319.D
Acq: 24 Mar 2023 16:51

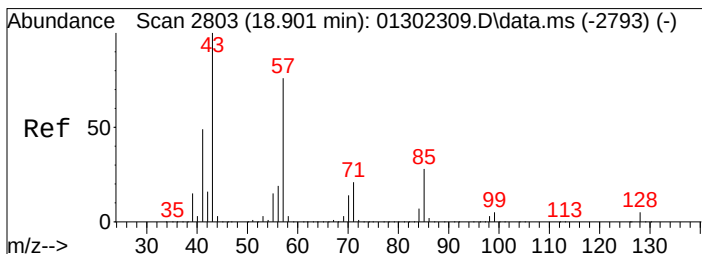
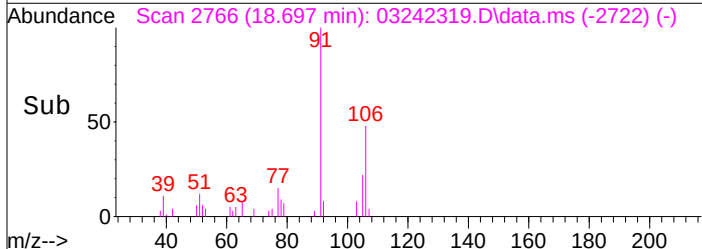
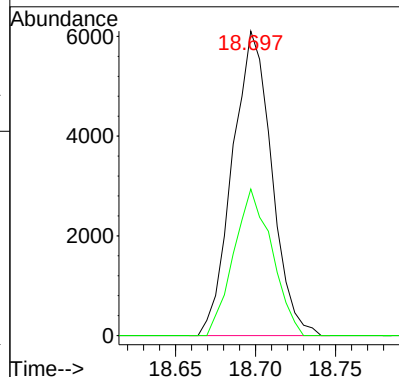
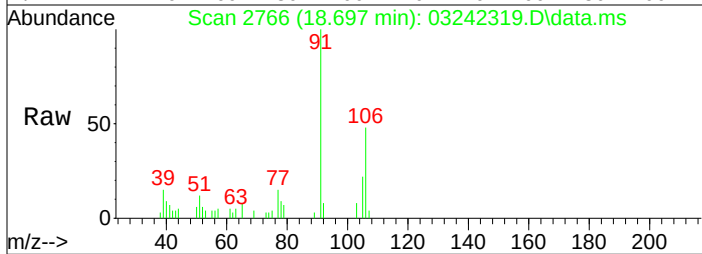
Tgt Ion: 91 Resp: 27665
Ion Ratio Lower Upper
91 100
106 49.3 29.2 69.2





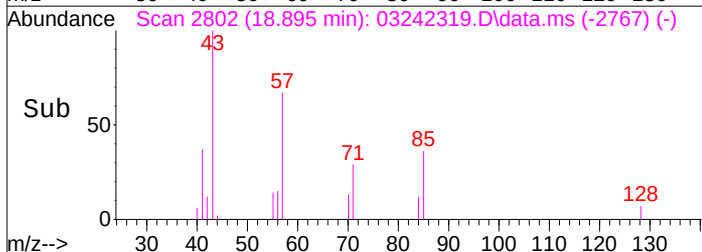
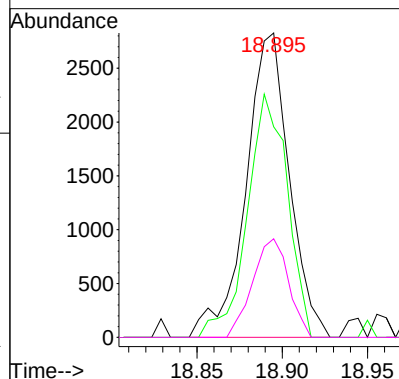
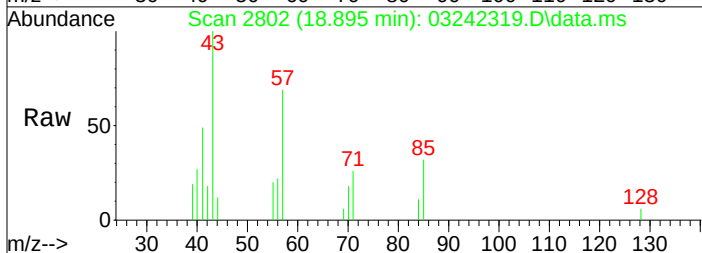
#70
o-Xylene
Concen: 0.14 ng
RT: 18.70 min Scan# 2766
Delta R.T. -0.006 min
Lab File: 03242319.D
Acq: 24 Mar 2023 16:51

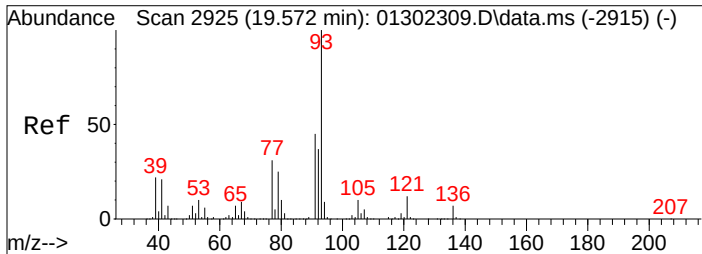
Tgt Ion: 91 Resp: 10418
Ion Ratio Lower Upper
91 100
106 46.8 27.3 67.3



#71
n-Nonane
Concen: 0.10 ng
RT: 18.89 min Scan# 2802
Delta R.T. -0.005 min
Lab File: 03242319.D
Acq: 24 Mar 2023 16:51

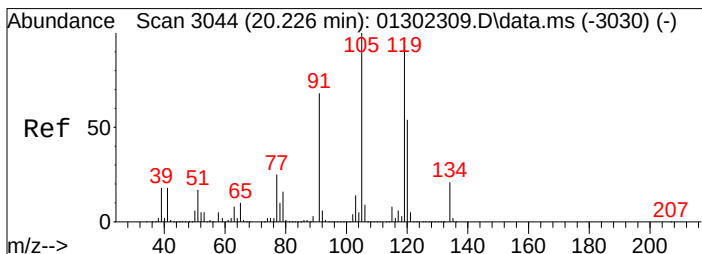
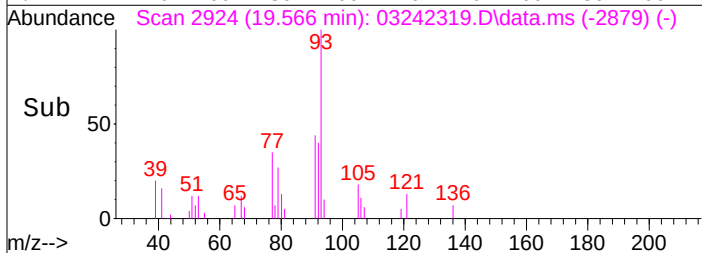
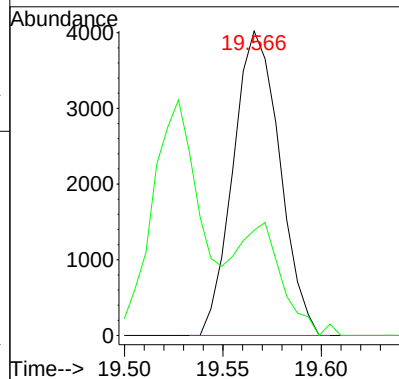
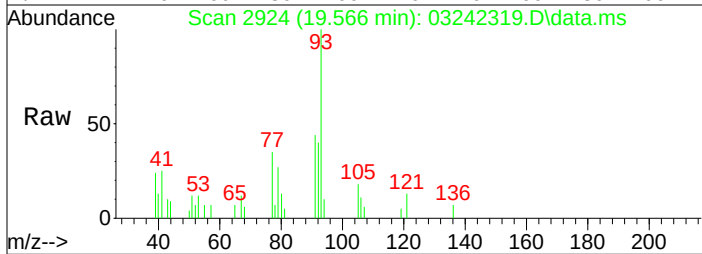
Tgt Ion: 43 Resp: 5015
Ion Ratio Lower Upper
43 100
57 73.5 64.6 104.6
85 26.8 9.6 49.6





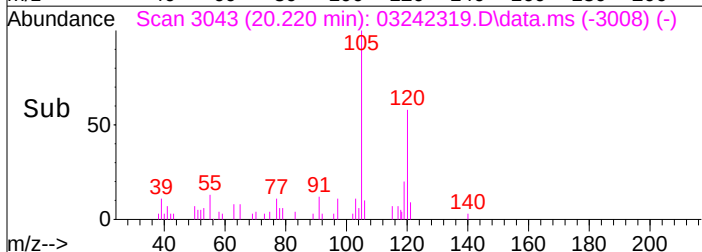
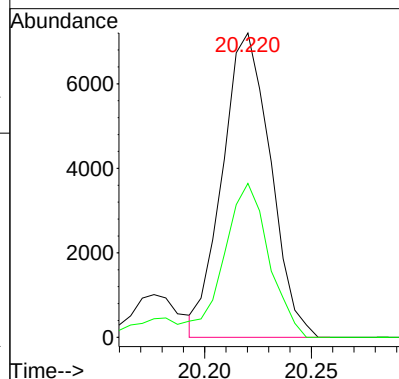
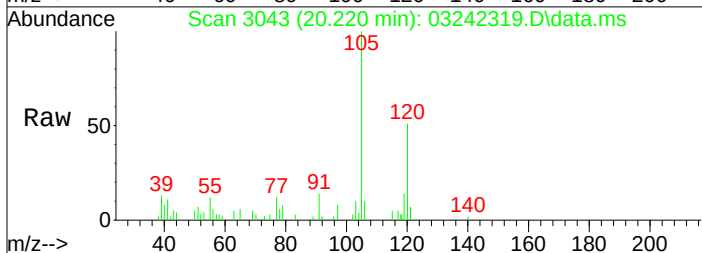
#75
 alpha-Pinene
 Concen: 0.28 ng
 RT: 19.57 min Scan# 2924
 Delta R.T. -0.005 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 16:51

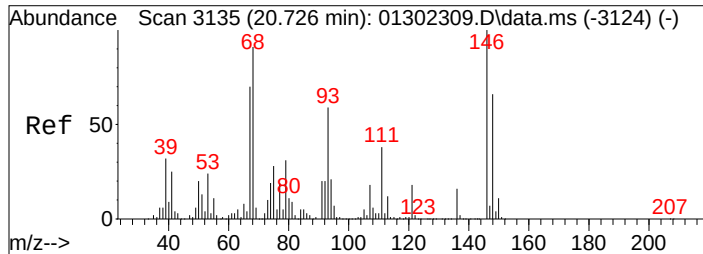
Tgt Ion: 93 Resp: 6620
 Ion Ratio Lower Upper
 93 100
 77 36.9 11.7 51.7



#82
 1,2,4-Trimethylbenzene
 Concen: 0.15 ng
 RT: 20.22 min Scan# 3043
 Delta R.T. -0.006 min
 Lab File: 03242319.D
 Acq: 24 Mar 2023 16:51

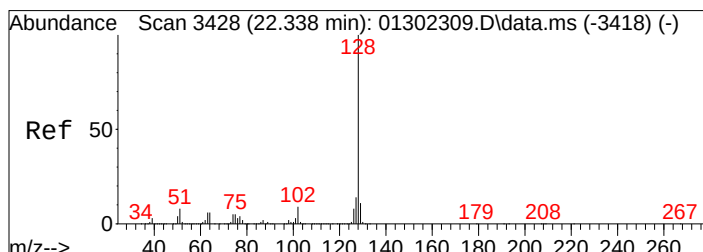
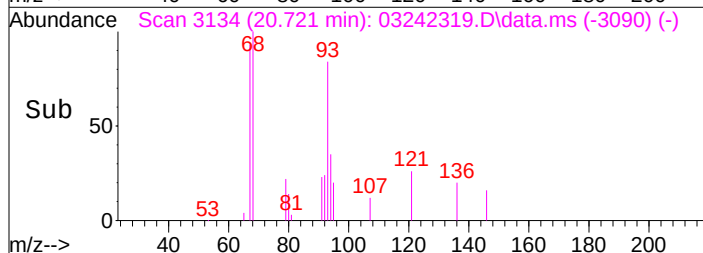
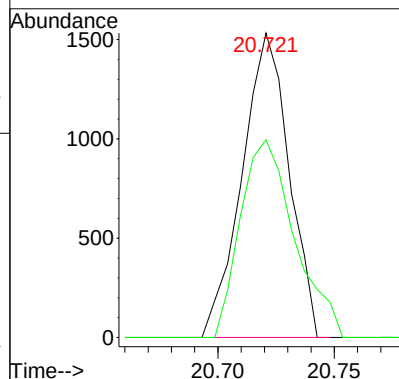
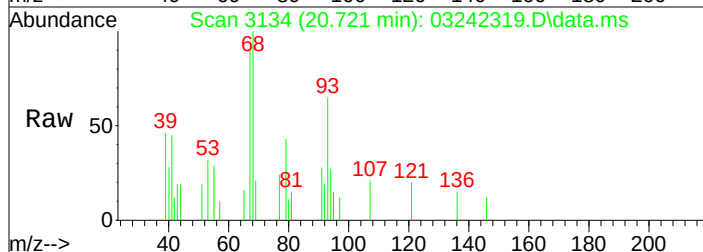
Tgt Ion: 105 Resp: 11294
 Ion Ratio Lower Upper
 105 100
 120 47.6 37.2 77.2





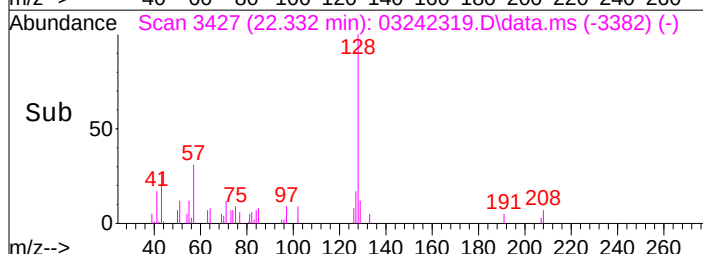
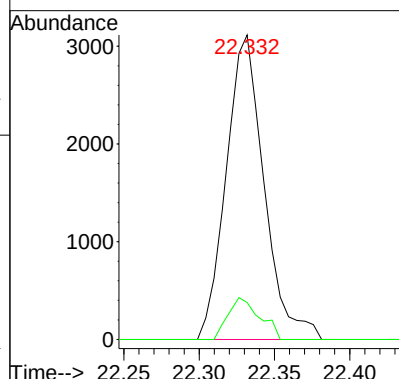
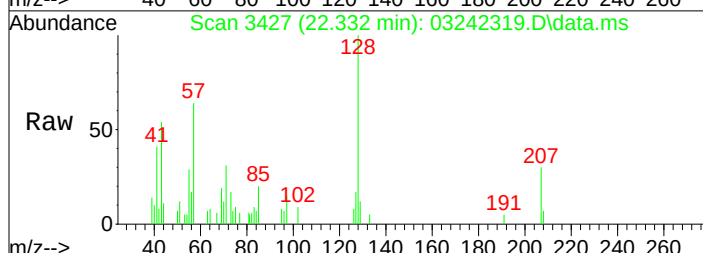
#91
d-Limonene
Concen: 0.10 ng
RT: 20.72 min Scan# 3134
Delta R.T. -0.005 min
Lab File: 03242319.D
Acq: 24 Mar 2023 16:51

Tgt Ion: 68 Resp: 2150
Ion Ratio Lower Upper
68 100
93 75.0 49.6 89.6



#95
Naphthalene
Concen: 0.06 ng
RT: 22.33 min Scan# 3427
Delta R.T. -0.005 min
Lab File: 03242319.D
Acq: 24 Mar 2023 16:51

Tgt Ion: 128 Resp: 5450
Ion Ratio Lower Upper
128 100
129 11.5 0.0 31.0



Data File : I:\MS16\DATA\2023_03\24\03242319.D
 Acq On : 24 Mar 2023 16:51
 Sample : P2301250-043 (1000mL)
 Misc : S35-01312301

Vial: 5
 Operator: WA
 Inst : GCMS-16

3/26/23

Quant Time: Mar 26 20:47:39 2023
 Quant Method : I:\MS16\METHODS\C16122022.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Dec 21 05:02:49 2022
 Response via : Initial Calibration
 DataAcq Meth:T015B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.28	130	208917	12.500	ng	-0.02
16) 1,4-Difluorobenzene (C_2)	13.41	114	957477	12.500	ng	-0.01
19) Chlorobenzene-d5 (C_3)	17.72	54	215617	12.500	ng	0.00

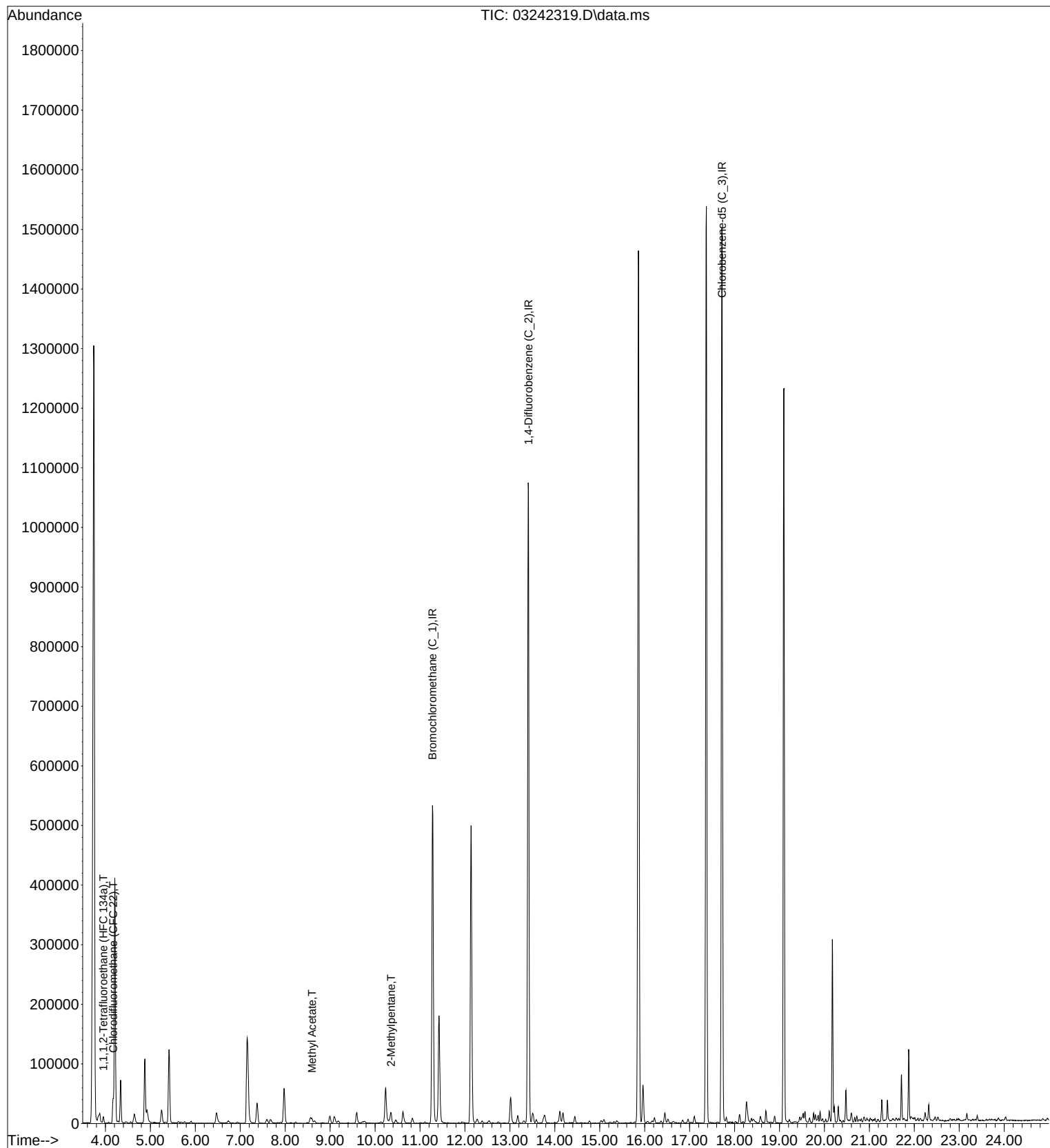
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.84	85	644	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.95	83	6313	0.381	ng	94
4) 1,1-Difluoroethane	4.07	65	677	N.D.		
5) Chlorodifluoromethane ...	4.17	67	2673	0.517	ng	88
6) 1-Chloro-1,1-Difluoroe...	4.64	65	2626	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	8.60	43	12156	0.235	ng	# 96
12) 2-Methylpentane	10.35	71	4068	0.198	ng	# 41
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	13.18	84	1215	N.D.		
17) 2,3-Dimethylpentane	13.59	56	2622	N.D.		
18) Dibromomethane	13.82	174	202	N.D.		
20) Methyl Cyclohexane	15.10	55	2495	N.D.		
21) 1,3-Dichloropropane	15.96	76	59	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	0.00	91	0	N.D.		
24) 1,2,3-Trichloropropane	18.70	75	274	N.D.		
25) Bromobenzene	19.22	77	297	N.D.		
26) 2-Chlorotoluene	19.66	91	3837	N.D.		
27) 4-Chlorotoluene	19.66	91	3837	N.D.		
28) Indane	20.76	117	1005	N.D.		
29) Indene	20.86	115	52	N.D.		
30) 1,2,4,5-Tetramethylben...	21.61	119	1247	N.D.		
31) 1,2,3,4-Tetramethylben...	21.65	119	1773	N.D.		
32) 1,2,3,5-Tetramethylben...	21.99	119	1198	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\24\03242319.D
Acq On : 24 Mar 2023 16:51
Sample : P2301250-043 (1000mL)
Misc : S35-01312301

Vial: 5
Operator: WA
Inst : GCMS-16

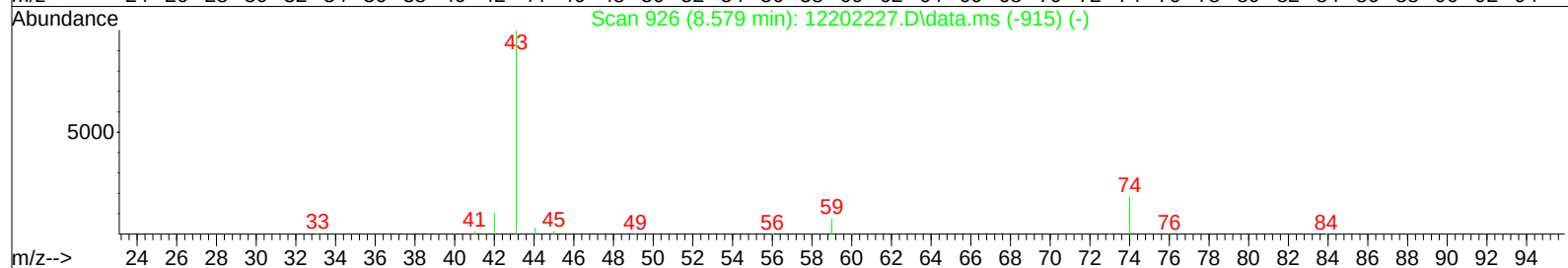
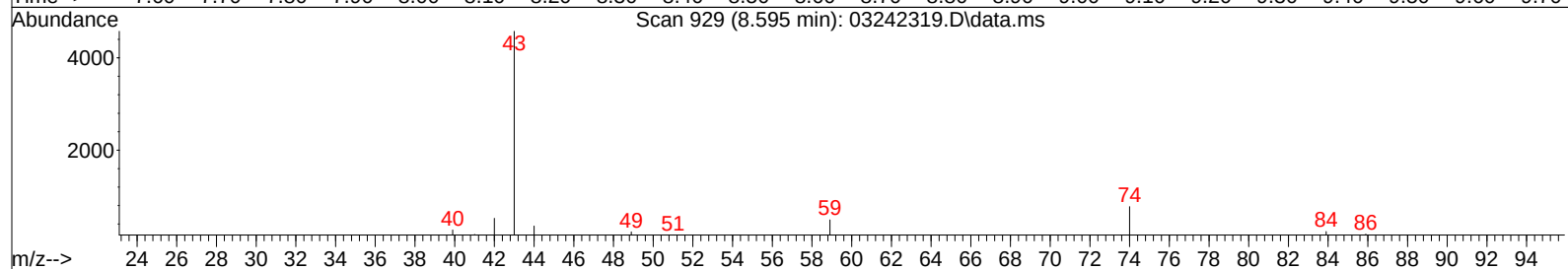
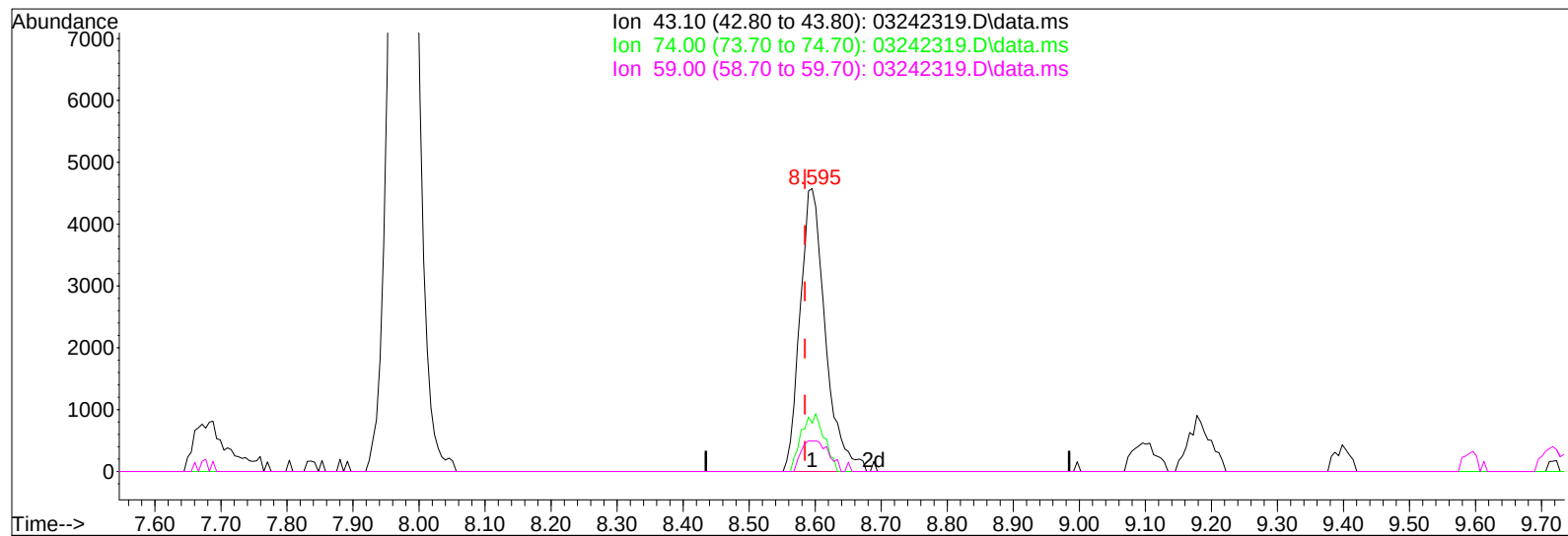
Quant Time: Mar 26 20:47:39 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



Data File : I:\MS16\DATA\2023_03\24\03242319.D
Acq On : 24 Mar 2023 16:51
Sample : P2301250-043 (1000mL)
Misc : S35-01312301

Vial: 5
Operator: WA
Inst : GCMS-16

Quant Time: Mar 26 20:47:15 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



TIC: 03242319.D\data.ms

(11) Methyl Acetate (T)

8.595min (+0.011) 0.23ng

response 12156

Ion	Exp%	Act%
43.10	100	100
74.00	18.10	18.53
59.00	7.20	11.63#
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG13B

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-044

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00760

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.42 Final Pressure (psig): 4.21

Container Dilution Factor: 2.28

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.8	1.2	0.20	0.56	0.24	0.040	
74-87-3	Chloromethane	0.33	0.48	0.20	0.16	0.23	0.095	J
75-01-4	Vinyl Chloride	ND	0.25	0.13	ND	0.098	0.051	
74-83-9	Bromomethane	ND	0.48	0.17	ND	0.12	0.043	
75-00-3	Chloroethane	ND	0.48	0.15	ND	0.18	0.057	
67-64-1	Acetone	5.9	12	2.7	2.5	5.1	1.2	J
75-69-4	Trichlorofluoromethane	1.9	1.2	0.18	0.33	0.21	0.033	
75-35-4	1,1-Dichloroethene	ND	0.25	0.17	ND	0.063	0.043	
75-09-2	Methylene Chloride	0.40	1.2	0.34	0.12	0.35	0.098	J
76-13-1	Trichlorotrifluoroethane	0.48	1.2	0.17	0.063	0.16	0.023	J
75-15-0	Carbon Disulfide	ND	2.4	0.36	ND	0.78	0.12	
156-60-5	trans-1,2-Dichloroethene	ND	0.25	0.17	ND	0.063	0.043	
75-34-3	1,1-Dichloroethane	ND	0.25	0.18	ND	0.062	0.044	
1634-04-4	Methyl tert-Butyl Ether	ND	1.2	0.14	ND	0.34	0.040	
78-93-3	2-Butanone (MEK)	0.90	2.4	0.25	0.31	0.80	0.085	J
156-59-2	cis-1,2-Dichloroethene	ND	0.25	0.17	ND	0.063	0.043	
67-66-3	Chloroform	ND	0.25	0.16	ND	0.051	0.033	
107-06-2	1,2-Dichloroethane	ND	0.25	0.13	ND	0.062	0.033	
71-55-6	1,1,1-Trichloroethane	ND	0.25	0.15	ND	0.046	0.028	
71-43-2	Benzene	1.1	0.25	0.18	0.34	0.079	0.055	
56-23-5	Carbon Tetrachloride	0.47	0.25	0.17	0.075	0.040	0.027	
110-82-7	Cyclohexane	ND	2.4	0.34	ND	0.70	0.099	
78-87-5	1,2-Dichloropropane	ND	0.25	0.15	ND	0.054	0.033	
75-27-4	Bromodichloromethane	ND	0.25	0.18	ND	0.037	0.026	
79-01-6	Trichloroethene	0.42	0.25	0.16	0.079	0.047	0.031	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG13B

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-044

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00760

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.42 Final Pressure (psig): 4.21

Container Dilution Factor: 2.28

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	1.2	0.19	ND	0.27	0.042	
108-10-1	4-Methyl-2-pentanone	ND	2.5	0.17	ND	0.61	0.041	
10061-02-6	trans-1,3-Dichloropropene	ND	1.2	0.25	ND	0.26	0.055	
79-00-5	1,1,2-Trichloroethane	ND	0.25	0.12	ND	0.046	0.023	
108-88-3	Toluene	1.0	1.2	0.15	0.27	0.32	0.039	J
591-78-6	2-Hexanone	0.24	2.5	0.15	0.059	0.61	0.037	J
124-48-1	Dibromochloromethane	ND	0.25	0.16	ND	0.029	0.019	
106-93-4	1,2-Dibromoethane	ND	0.25	0.14	ND	0.033	0.018	
127-18-4	Tetrachloroethene	0.23	0.25	0.16	0.033	0.037	0.023	J
108-90-7	Chlorobenzene	ND	1.2	0.16	ND	0.26	0.035	
100-41-4	Ethylbenzene	0.21	1.2	0.17	0.047	0.28	0.039	J
179601-23-1	m,p-Xylenes	0.61	2.5	0.32	0.14	0.58	0.074	J
75-25-2	Bromoform	ND	1.2	0.25	ND	0.12	0.024	
100-42-5	Styrene	ND	1.2	0.20	ND	0.28	0.046	
95-47-6	o-Xylene	0.23	1.2	0.18	0.054	0.28	0.040	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.25	0.17	ND	0.037	0.025	
98-82-8	Cumene	ND	1.2	0.18	ND	0.25	0.036	
541-73-1	1,3-Dichlorobenzene	ND	1.2	0.18	ND	0.20	0.030	
106-46-7	1,4-Dichlorobenzene	ND	1.2	0.19	ND	0.20	0.031	
95-50-1	1,2-Dichlorobenzene	ND	1.2	0.18	ND	0.20	0.030	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.23	ND	0.26	0.024	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.30	ND	0.34	0.040	
79-20-9	Methyl Acetate	ND	1.1	0.55	ND	0.38	0.18	X
108-87-2	Methylcyclohexane	ND	1.1	0.59	ND	0.28	0.15	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS16\DATA\2023_03\24\03242320.D
 Acq On : 24 Mar 2023 17:25
 Sample : P2301250-044 (1000mL)
 Misc : S35-01312301

Vial: 6
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 26 20:39:59 2023

3/26/23

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:TO15B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	204294	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	941947	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.72	54	210305	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	367952	13.543	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	108.32%
57) Toluene-d8 (SS2)	15.86	98	1089749	11.836	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.72%
73) Bromofluorobenzene (SS3)	19.10	174	330804	11.520	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.16%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	4.34	85	37115	1.215	ng	99
4) Chloromethane	4.63	50	4150	0.145	ng	89
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	814	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.33	54	332	N.D.		
8) Bromomethane	5.77	94	107	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.47	45	19495	0.992	ng	96
11) Acetonitrile	6.74	41	2568	0.052	ng	94
12) Acrolein	6.94	56	1093	0.079	ng	97
13) Acetone	7.15	58	38660	2.571	ng	# 66
14) Trichlorofluoromethane	7.37	101	23130	0.821	ng	99
15) 2-Propanol (Isopropanol)	7.69	45	6433	0.123	ng	93
16) Acrylonitrile	7.91	53	216	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	8.60	59	871	N.D.		
19) Methylene Chloride	8.56	84	2934	0.177	ng	92
20) 3-Chloro-1-propene (Al...	8.65	41	1225	N.D.		
21) Trichlorotrifluoroethane	8.99	151	2943	0.210	ng	90
22) Carbon Disulfide	8.83	76	1698	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	10.09	63	435	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	10.62	72	4307	0.395	ng	# 85
28) cis-1,2-Dichloroethene	11.10	61	471	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	11.42	61	27912	3.915	ng	99
31) n-Hexane	11.40	57	15407	0.432	ng	97
32) Chloroform	11.44	83	1784	0.065	ng	100
34) Tetrahydrofuran (THF)	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	12.25	62	841	N.D.		
38) 1,1,1-Trichloroethane	12.53	97	1371	0.054	ng	95
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.02	78	31189	0.470	ng	98
42) Carbon Tetrachloride	13.18	117	4458	0.207	ng	98
43) Cyclohexane	13.31	84	1195	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	14.12	130	3346	0.185	ng	98
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	14.18	57	12623	0.141	ng	75
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS16\DATA\2023_03\24\03242320.D
 Acq On : 24 Mar 2023 17:25
 Sample : P2301250-044 (1000mL)
 Misc : S35-01312301

Vial: 6
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 26 20:39:59 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

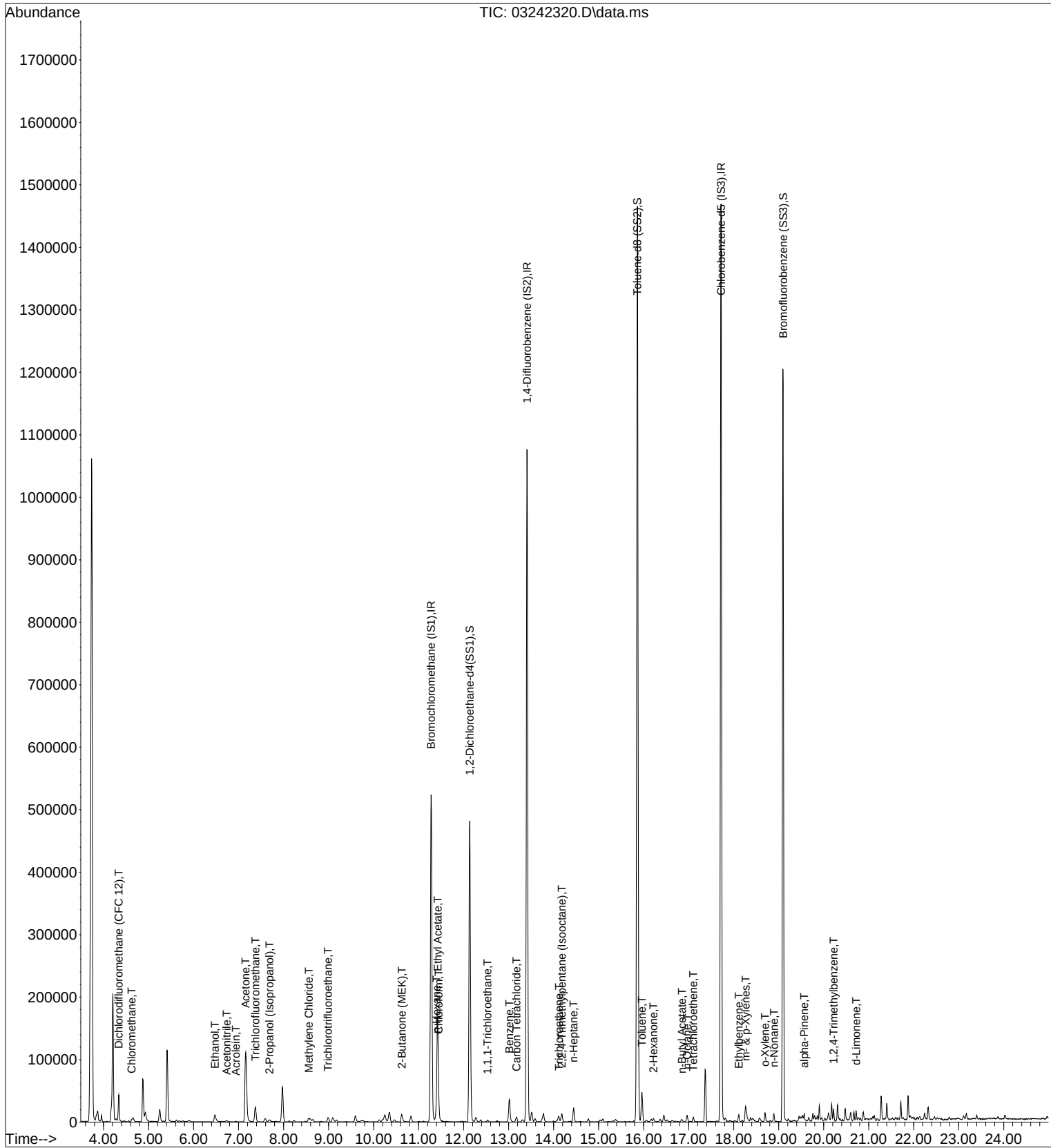
DataAcq Meth:T015B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.44	71	5434	0.279	ng	95
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	15.04	58	623	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.96	91	36480	0.452	ng	96
59) 2-Hexanone	16.22	43	4502	0.106	ng	72
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.85	43	3363	0.069	ng	93
63) n-Octane	16.96	57	1823	0.088	ng	94
64) Tetrachloroethene	17.10	166	2032	0.099	ng	98
65) Chlorobenzene	17.76	112	303	N.D.		
66) Ethylbenzene	18.11	91	8236	0.090	ng	99
67) m- & p-Xylenes	18.27	91	19334	0.268	ng	99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.59	104	1090	N.D.		
70) o-Xylene	18.70	91	7306	0.103	ng	99
71) n-Nonane	18.90	43	5512	0.109	ng	88
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	19.22	105	1253	N.D.		
75) alpha-Pinene	19.57	93	3988	0.174	ng	85
76) n-Propylbenzene	19.67	91	2517	N.D.		
77) 3-Ethyltoluene	20.22	105	8005	No Calib	#	
78) 4-Ethyltoluene	19.79	105	2438	N.D.		
79) 1,3,5-Trimethylbenzene	19.86	105	2645	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.22	105	8005	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.22	105	8005	0.110	ng	83
83) n-Decane	20.23	58	162	No Calib	#	
84) Benzyl Chloride	20.42	91	270	N.D.		
85) 1,3-Dichlorobenzene	20.41	146	240	N.D.		
86) 1,4-Dichlorobenzene	20.41	146	240	N.D.		
87) sec-Butylbenzene	20.46	105	463	N.D.		
88) 4-Isopropyltoluene (p-...	20.59	119	3687	N.D.		
89) 1,2,3-Trimethylbenzene	20.22	105	8005	No Calib	#	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	20.72	68	3605	0.174	ng	99
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	21.40	58	321	No Calib	#	
94) 1,2,4-Trichlorobenzene	22.22	180	226	N.D.		
95) Naphthalene	22.33	128	3823	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	18.19	55	584	No Calib	#	
99) tert-Butylbenzene	20.22	119	982	N.D.		
100) n-Butylbenzene	20.96	91	1217	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Vial: 6
Operator: WA
Inst : GCMS-16

Quant Time: Mar 26 20:39:59 2023



Data File : I:\MS16\DATA\2023_03\24\03242320.D
 Acq On : 24 Mar 2023 17:25
 Sample : P2301250-044 (1000mL)
 Misc : S35-01312301

Vial: 6
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 26 20:39:59 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

3/26/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	204294	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	941947	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.72	54	210305	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	367952	13.543	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	108.32%
57) Toluene-d8 (SS2)	15.86	98	1089749	11.836	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.72%
73) Bromofluorobenzene (SS3)	19.10	174	330804	11.520	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.16%

Target Compounds

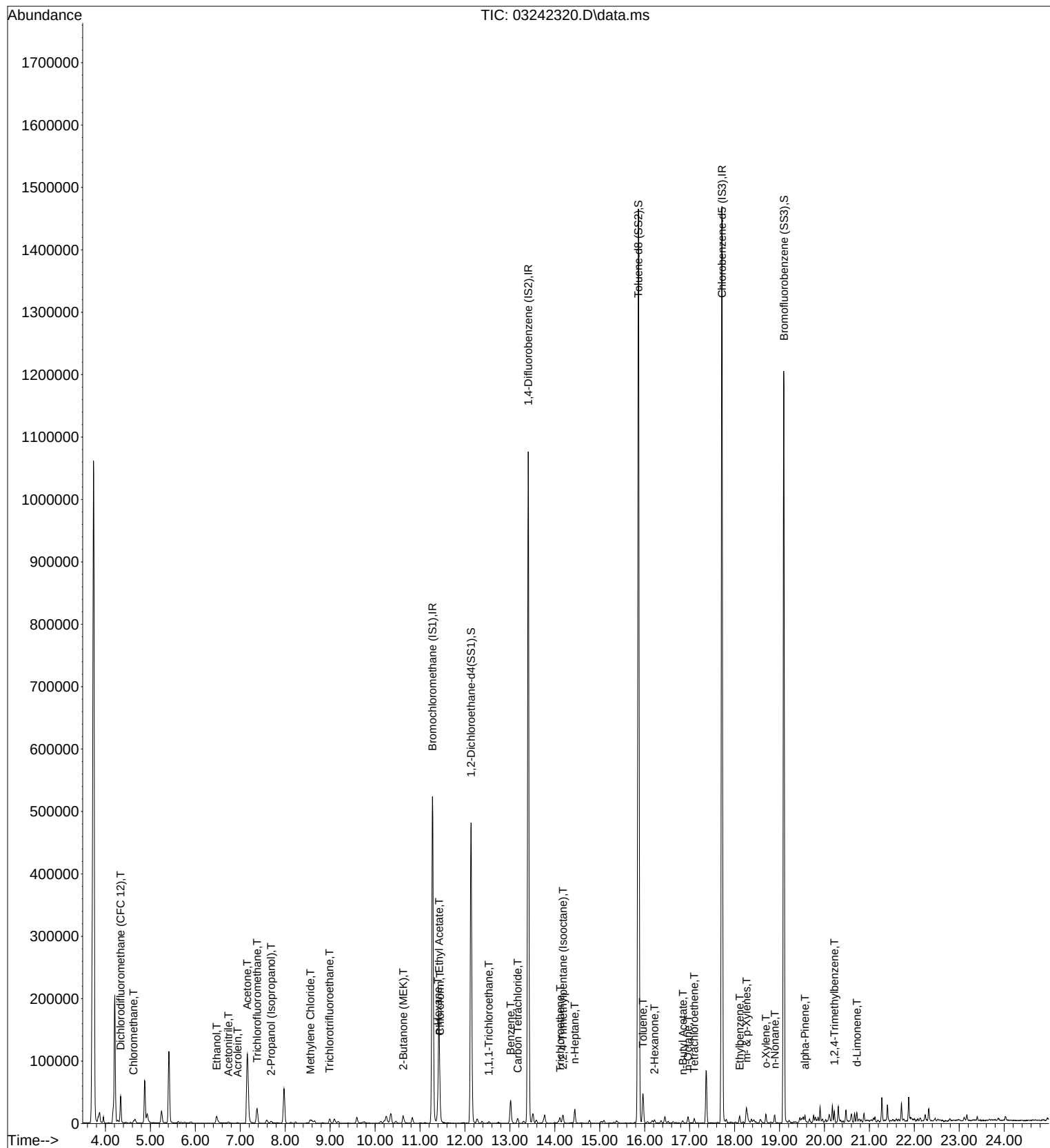
						Qvalue
3) Dichlorodifluoromethan...	4.34	85	37115	1.215	ng	99
4) Chloromethane	4.63	50	4150	0.145	ng	89
10) Ethanol	6.47	45	19495	0.992	ng	96
11) Acetonitrile	6.74	41	2568	0.052	ng	94
12) Acrolein	6.94	56	1093	0.079	ng	97
13) Acetone	7.15	58	38660	2.571	ng	# 66
14) Trichlorofluoromethane	7.37	101	23130	0.821	ng	99
15) 2-Propanol (Isopropanol)	7.69	45	6433	0.123	ng	93
19) Methylene Chloride	8.56	84	2934	0.177	ng	92
21) Trichlorotrifluoroethane	8.99	151	2943	0.210	ng	90
27) 2-Butanone (MEK)	10.62	72	4307	0.395	ng	# 85
30) Ethyl Acetate	11.42	61	27912	3.915	ng	99
31) n-Hexane	11.40	57	15407	0.432	ng	97
32) Chloroform	11.44	83	1784	0.065	ng	100
38) 1,1,1-Trichloroethane	12.53	97	1371	0.054	ng	95
41) Benzene	13.02	78	31189	0.470	ng	98
42) Carbon Tetrachloride	13.18	117	4458	0.207	ng	98
47) Trichloroethene	14.12	130	3346	0.185	ng	98
49) 2,2,4-Trimethylpentane...	14.18	57	12623	0.141	ng	75
51) n-Heptane	14.44	71	5434	0.279	ng	95
58) Toluene	15.96	91	36480	0.452	ng	96
59) 2-Hexanone	16.22	43	4502	0.106	ng	72
62) n-Butyl Acetate	16.85	43	3363	0.069	ng	93
63) n-Octane	16.96	57	1823	0.088	ng	94
64) Tetrachloroethene	17.10	166	2032	0.099	ng	98
66) Ethylbenzene	18.11	91	8236	0.090	ng	99
67) m- & p-Xylenes	18.27	91	19334	0.268	ng	99
70) o-Xylene	18.70	91	7306	0.103	ng	99
71) n-Nonane	18.90	43	5512	0.109	ng	88
75) alpha-Pinene	19.57	93	3988	0.174	ng	85
82) 1,2,4-Trimethylbenzene	20.22	105	8005	0.110	ng	83
91) d-Limonene	20.72	68	3605	0.174	ng	99

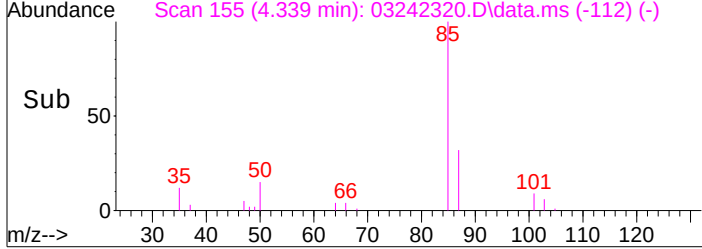
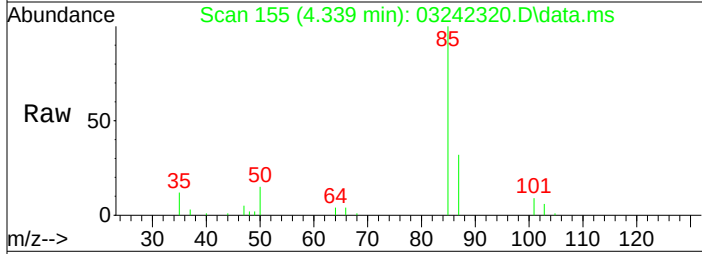
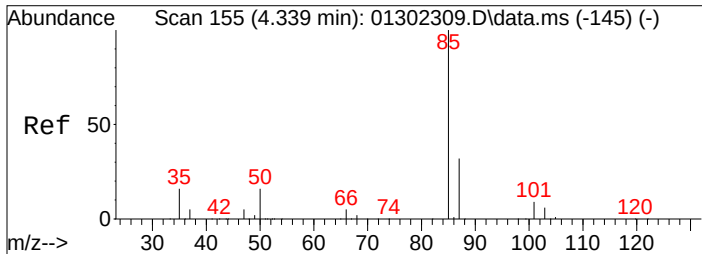
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS16\DATA\2023_03\24\03242320.D
Acq On : 24 Mar 2023 17:25
Sample : P2301250-044 (1000mL)
Misc : S35-01312301

Vial: 6
Operator: WA
Inst : GCMS-16

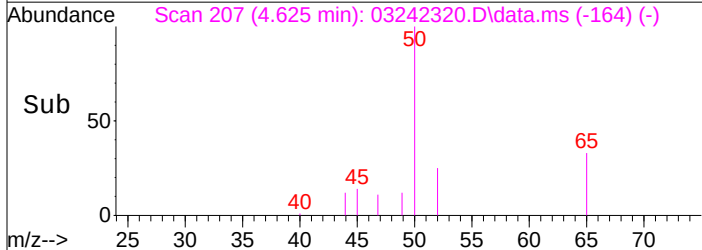
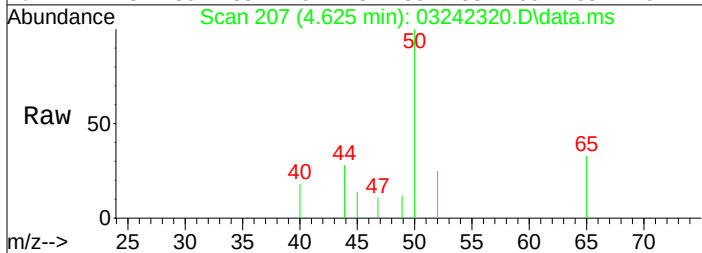
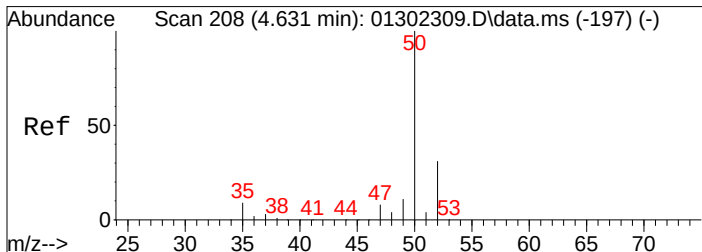
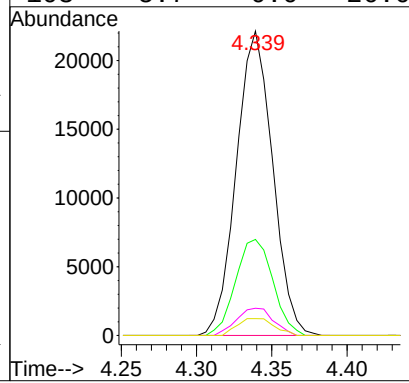
Quant Time: Mar 26 20:39:59 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M





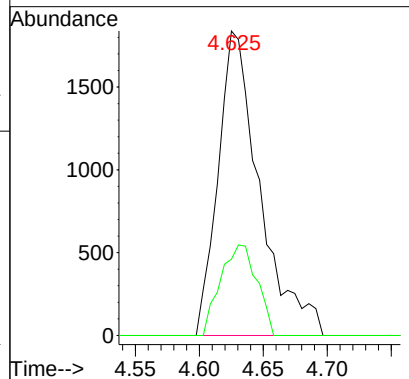
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.22 ng
 RT: 4.34 min Scan# 155
 Delta R.T. -0.011 min
 Lab File: 03242320.D
 Acq: 24 Mar 2023 17:25

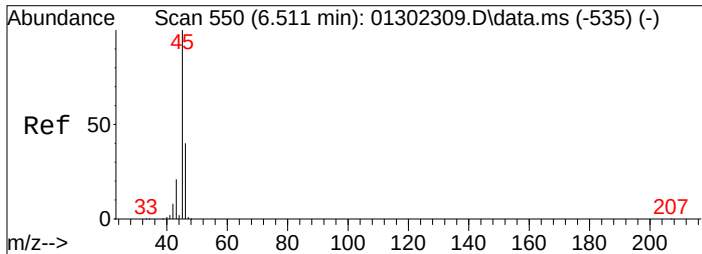
Tgt Ion:	85	Resp:	37115
Ion Ratio		Lower	Upper
85	100		
87	32.4	12.1	52.1
101	9.1	0.0	29.3
103	5.7	0.0	26.0



#4
 Chloromethane
 Concen: 0.15 ng
 RT: 4.63 min Scan# 207
 Delta R.T. -0.011 min
 Lab File: 03242320.D
 Acq: 24 Mar 2023 17:25

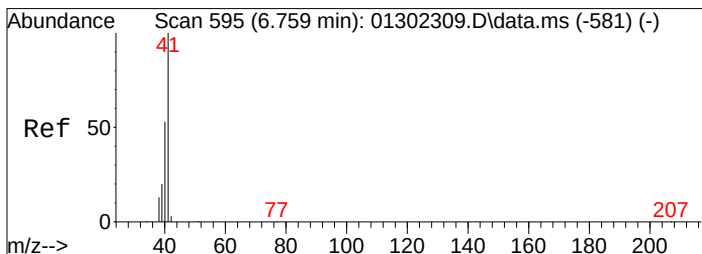
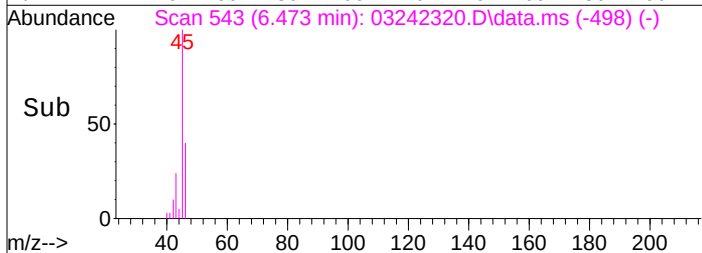
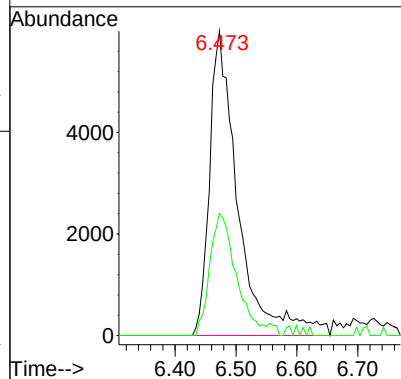
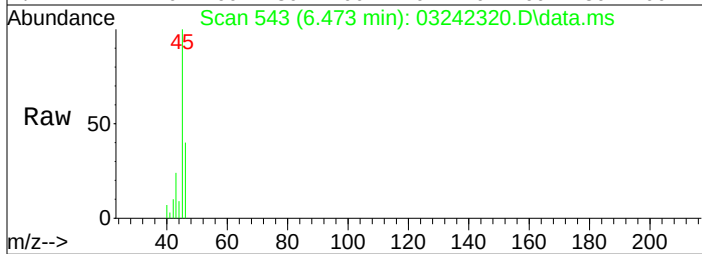
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Ion Ratio		Lower	Upper
50	100		
52	26.0	12.2	52.2





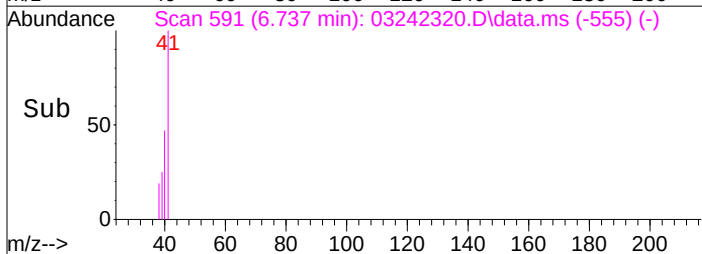
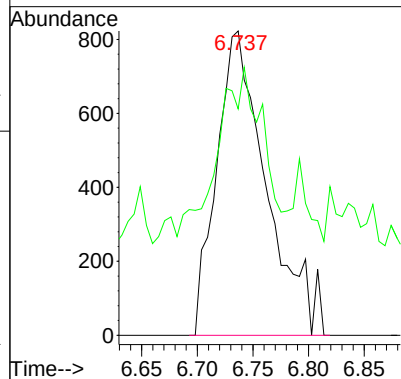
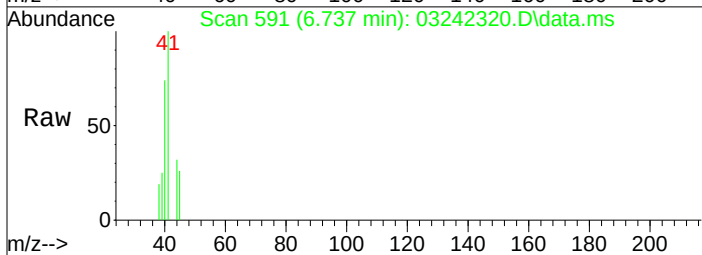
#10
Ethanol
Concen: 0.99 ng
RT: 6.47 min Scan# 543
Delta R.T. -0.005 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:25

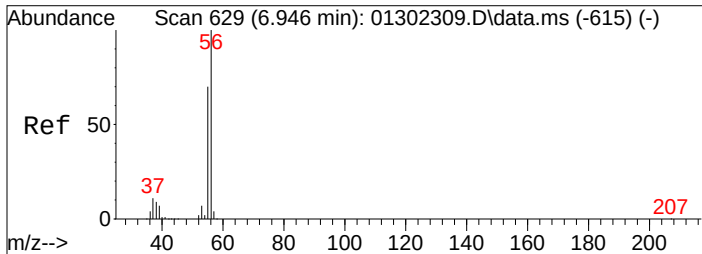
Tgt Ion: 45 Resp: 19495
Ion Ratio Lower Upper
45 100
46 38.1 20.5 60.5



#11
Acetonitrile
Concen: 0.05 ng
RT: 6.74 min Scan# 591
Delta R.T. -0.000 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:25

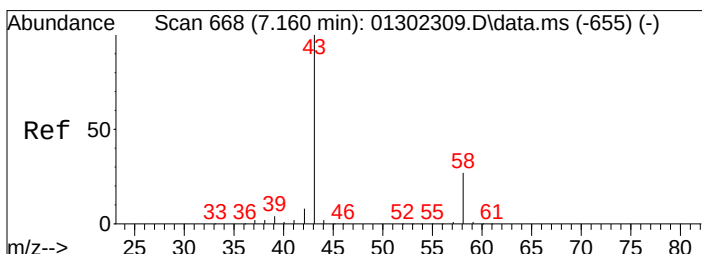
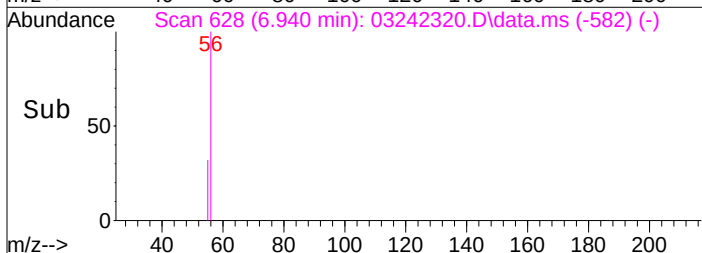
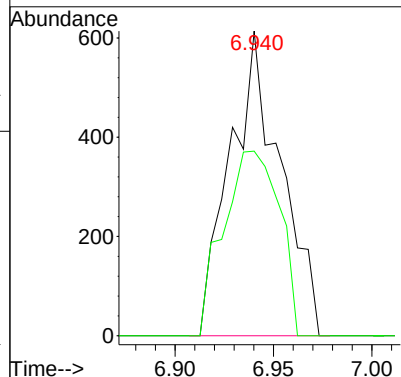
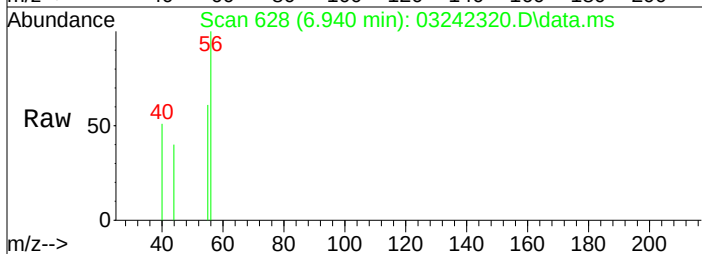
Tgt Ion: 41 Resp: 2568
Ion Ratio Lower Upper
41 100
40 56.7 32.4 72.4





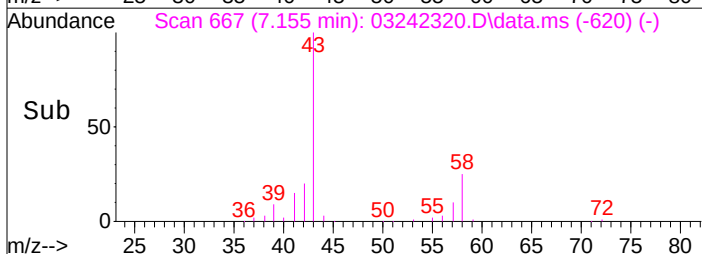
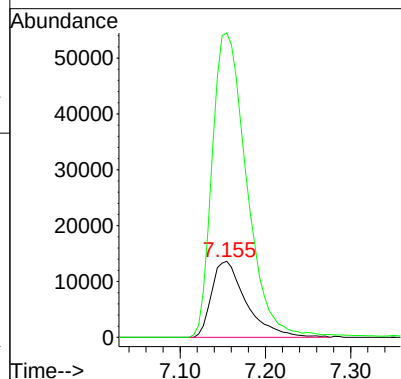
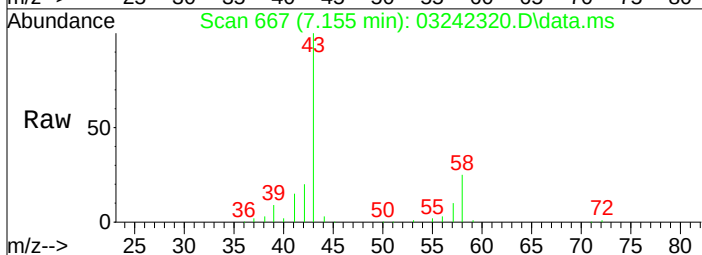
#12
Acrolein
Concen: 0.08 ng
RT: 6.94 min Scan# 628
Delta R.T. 0.005 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:25

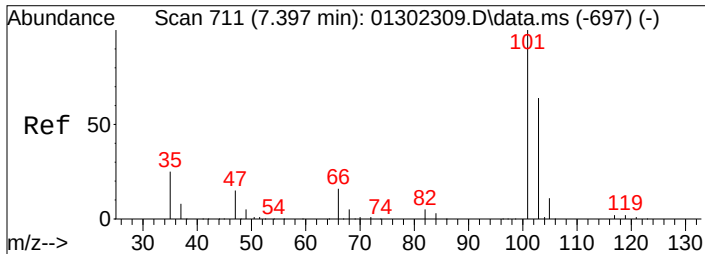
Tgt Ion: 56 Resp: 1093
Ion Ratio Lower Upper
56 100
55 67.5 49.9 89.9



#13
Acetone
Concen: 2.57 ng
RT: 7.15 min Scan# 667
Delta R.T. 0.011 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:25

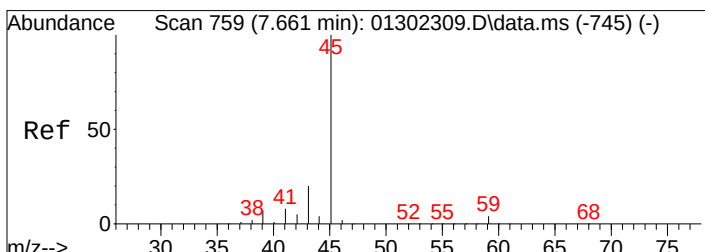
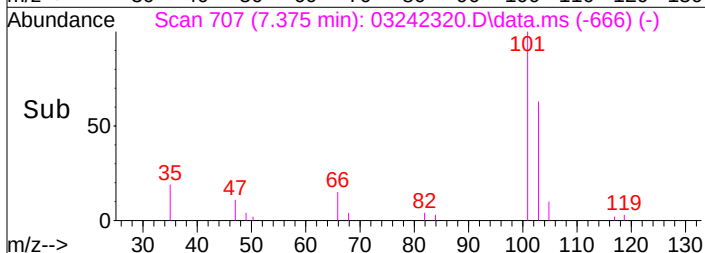
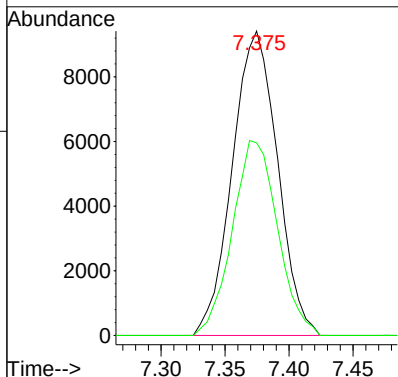
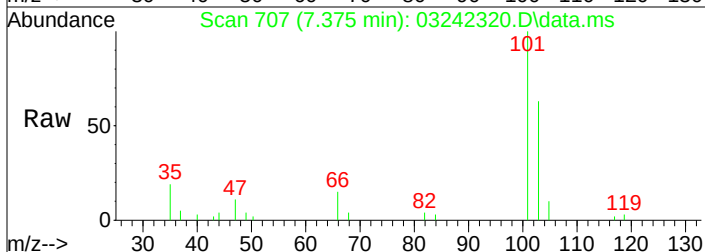
Tgt Ion: 58 Resp: 38660
Ion Ratio Lower Upper
58 100
43 399.7 298.5 358.5#





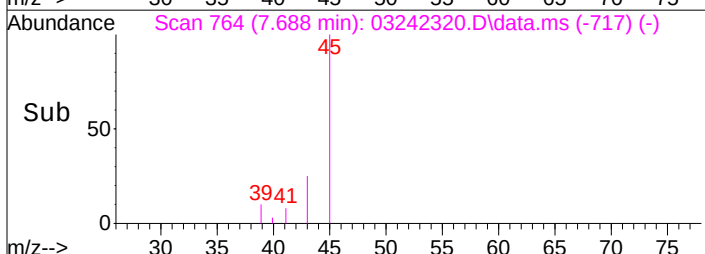
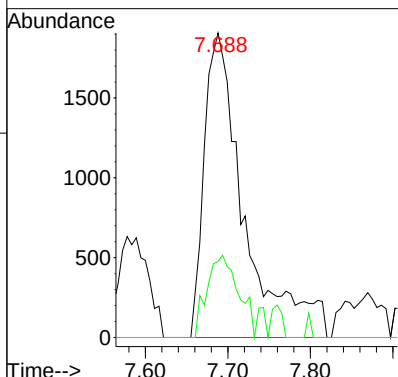
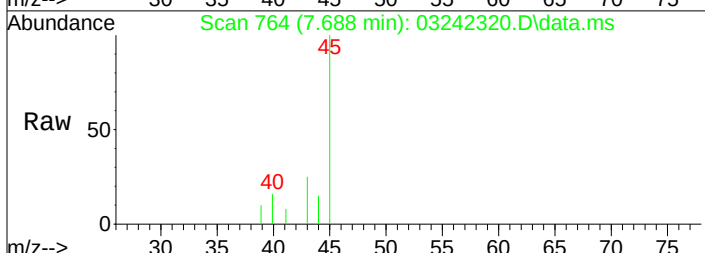
#14
 Trichlorofluoromethane
 Concen: 0.82 ng
 RT: 7.37 min Scan# 707
 Delta R.T. -0.022 min
 Lab File: 03242320.D
 Acq: 24 Mar 2023 17:25

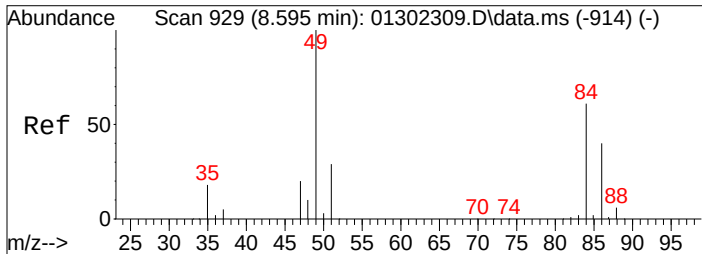
Tgt Ion: 101 Resp: 23130
 Ion Ratio Lower Upper
 101 100
 103 64.0 44.8 84.8



#15
 2-Propanol (Isopropanol)
 Concen: 0.12 ng
 RT: 7.69 min Scan# 764
 Delta R.T. 0.008 min
 Lab File: 03242320.D
 Acq: 24 Mar 2023 17:25

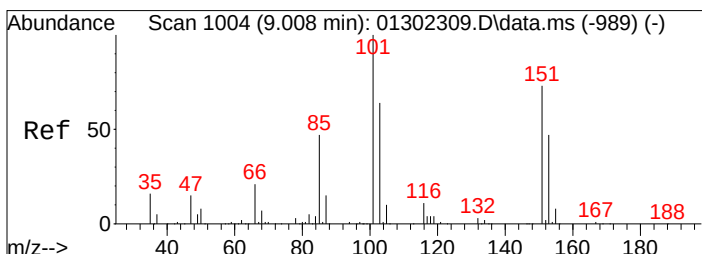
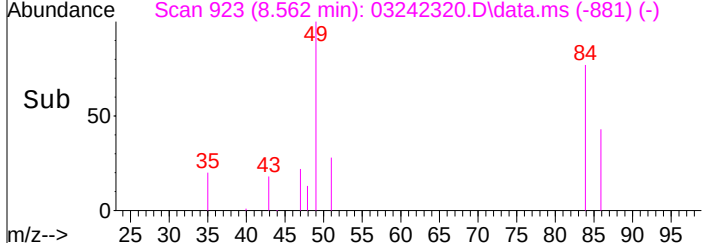
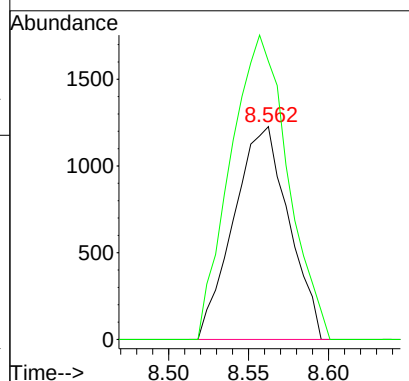
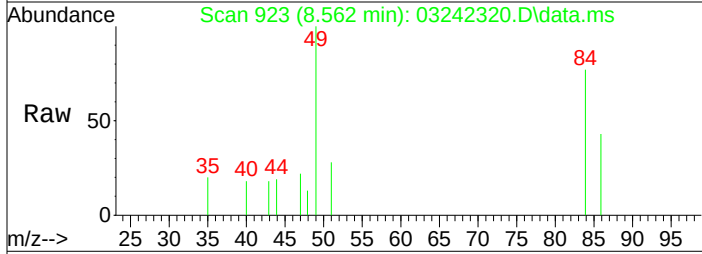
Tgt Ion: 45 Resp: 6433
 Ion Ratio Lower Upper
 45 100
 43 21.2 0.0 37.9





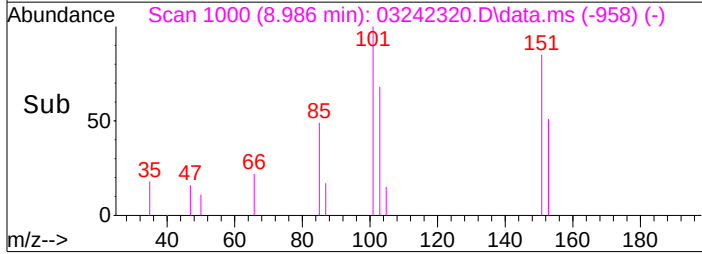
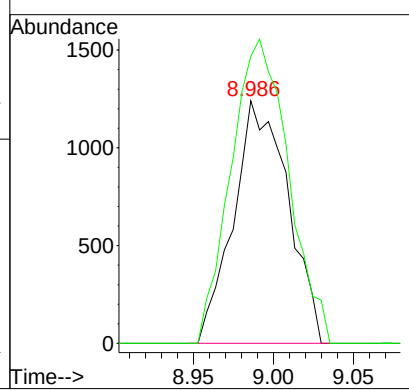
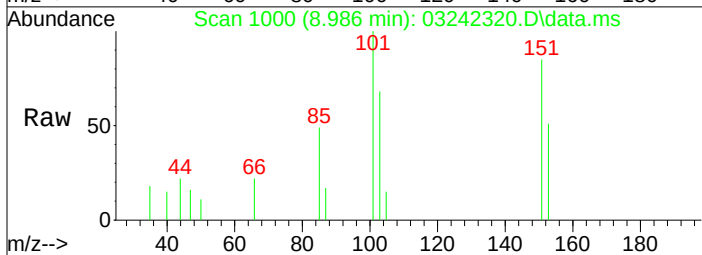
#19
Methylene Chloride
 Concen: 0.18 ng
 RT: 8.56 min Scan# 923
 Delta R.T. -0.016 min
 Lab File: 03242320.D
 Acq: 24 Mar 2023 17:25

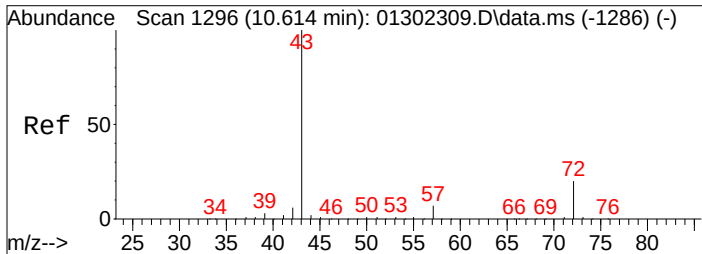
Tgt Ion:	84	Resp:	2934
Ion Ratio	Lower	Upper	
84	100		
49	149.3	135.0	185.0



#21
Trichlorotrifluoroethane
 Concen: 0.21 ng
 RT: 8.99 min Scan# 1000
 Delta R.T. -0.016 min
 Lab File: 03242320.D
 Acq: 24 Mar 2023 17:25

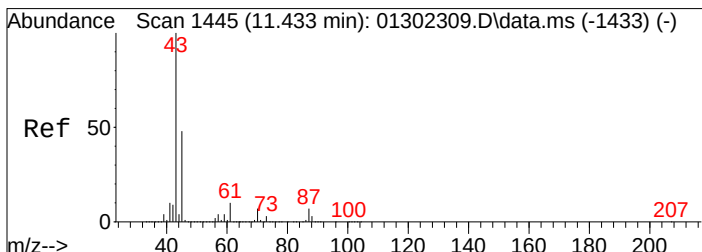
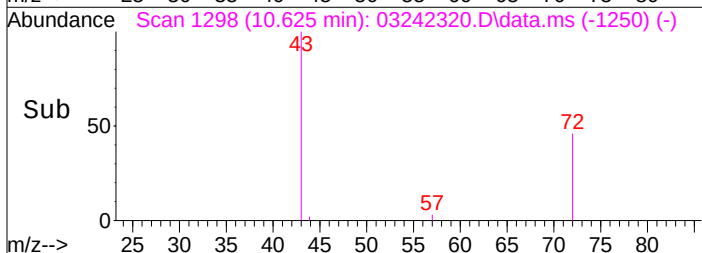
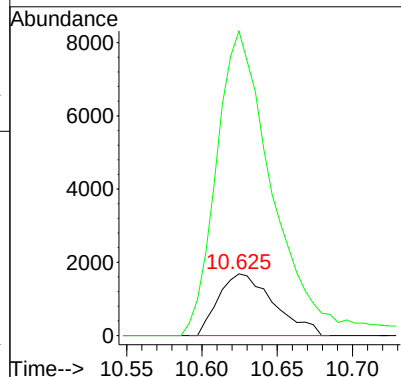
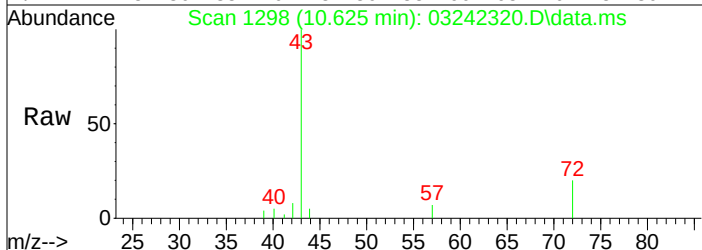
Tgt Ion:	151	Resp:	2943
Ion Ratio	Lower	Upper	
151	100		
101	132.1	101.5	141.5





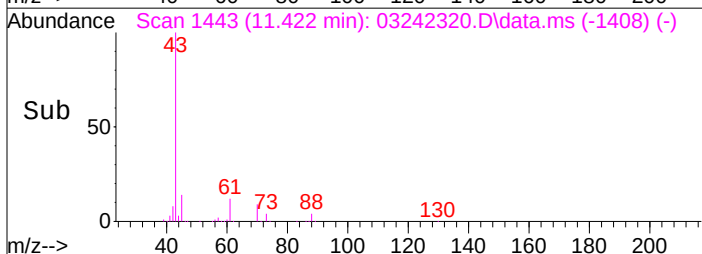
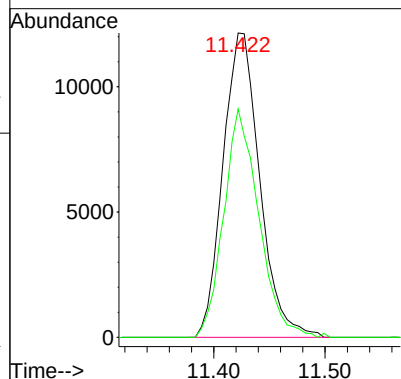
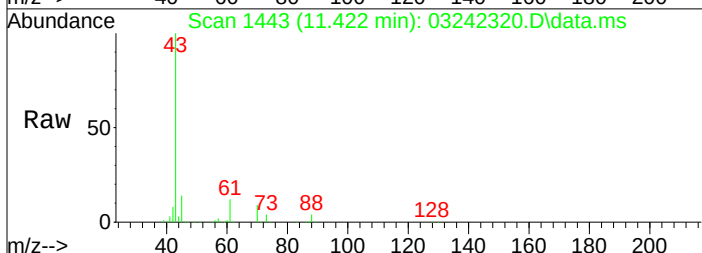
#27
 2-Butanone (MEK)
 Concen: 0.40 ng
 RT: 10.62 min Scan# 1298
 Delta R.T. 0.017 min
 Lab File: 03242320.D
 Acq: 24 Mar 2023 17:25

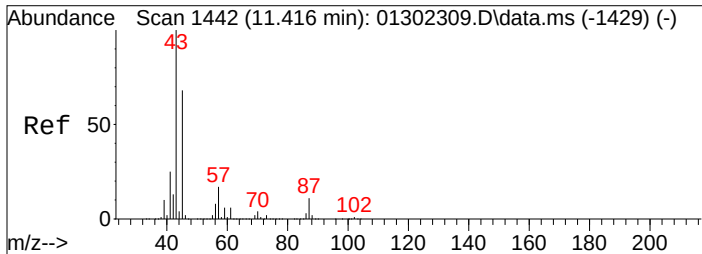
Tgt Ion: 72 Resp: 4307
 Ion Ratio Lower Upper
 72 100
 43 508.0 449.4 489.4#



#30
 Ethyl Acetate
 Concen: 3.92 ng
 RT: 11.42 min Scan# 1443
 Delta R.T. -0.005 min
 Lab File: 03242320.D
 Acq: 24 Mar 2023 17:25

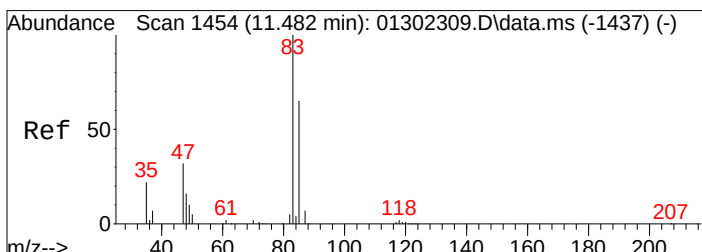
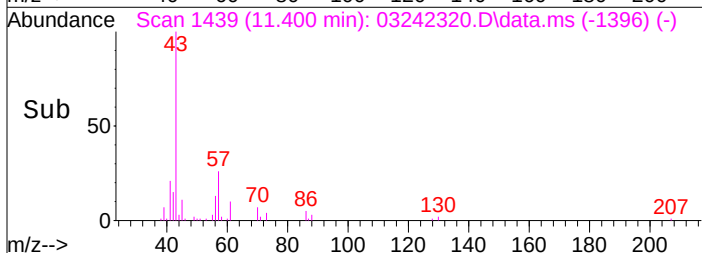
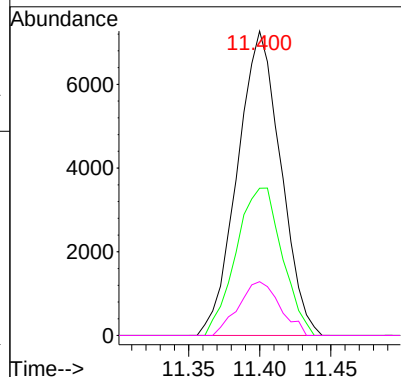
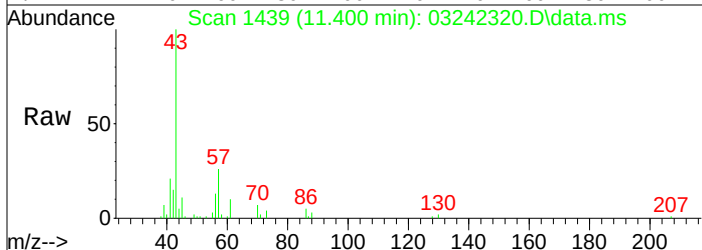
Tgt Ion: 61 Resp: 27912
 Ion Ratio Lower Upper
 61 100
 70 71.7 52.8 92.8





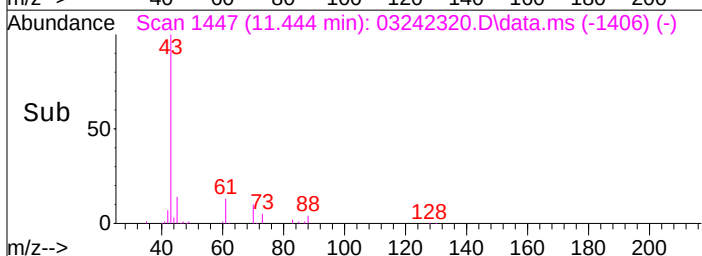
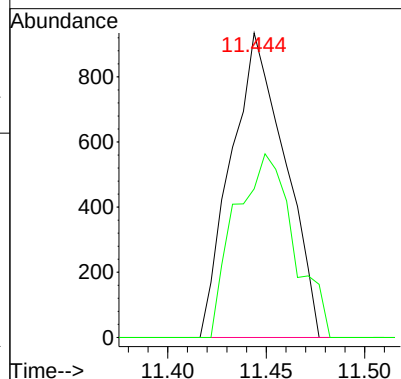
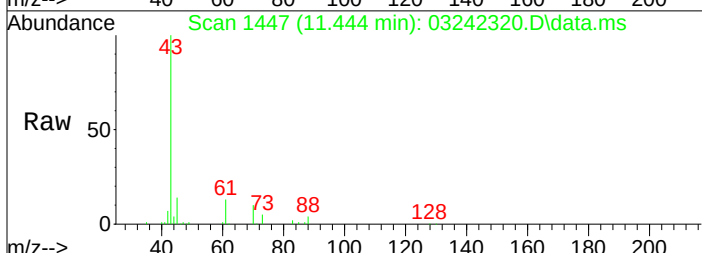
#31
n-Hexane
Concen: 0.43 ng
RT: 11.40 min Scan# 1439
Delta R.T. -0.011 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:25

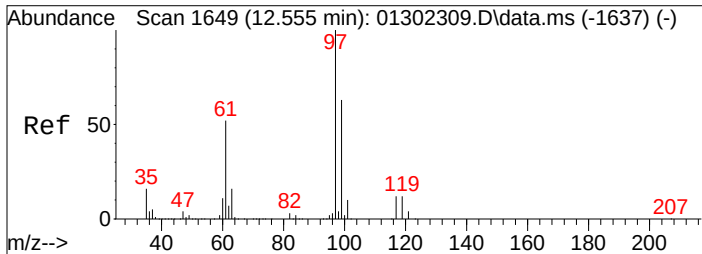
Tgt Ion:	57	Resp:	15407
Ion Ratio		Lower	Upper
57	100		
56	51.6	39.9	59.9
86	16.9	12.3	18.5



#32
Chloroform
Concen: 0.07 ng
RT: 11.44 min Scan# 1447
Delta R.T. -0.022 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:25

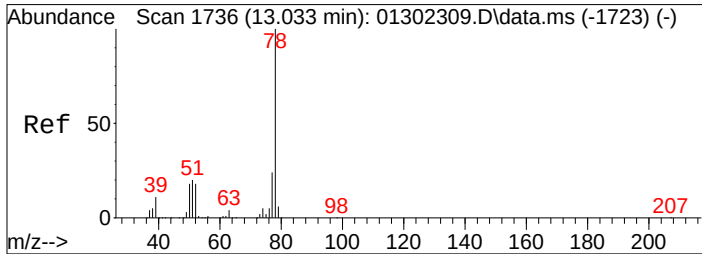
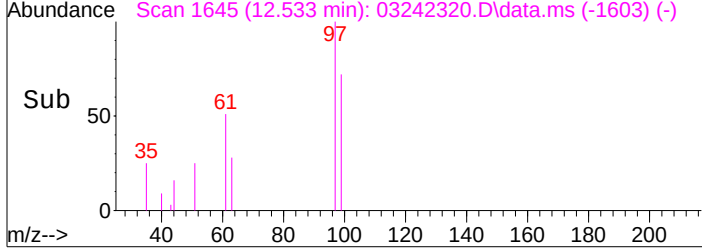
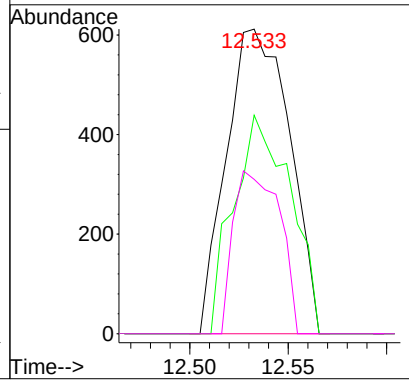
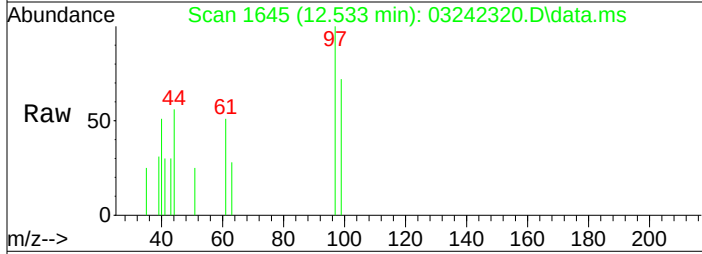
Tgt Ion:	83	Resp:	1784
Ion Ratio		Lower	Upper
83	100		
85	65.3	45.5	85.5





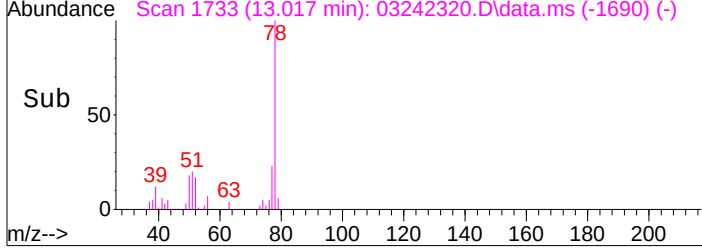
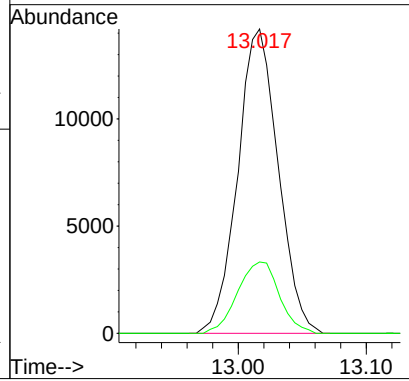
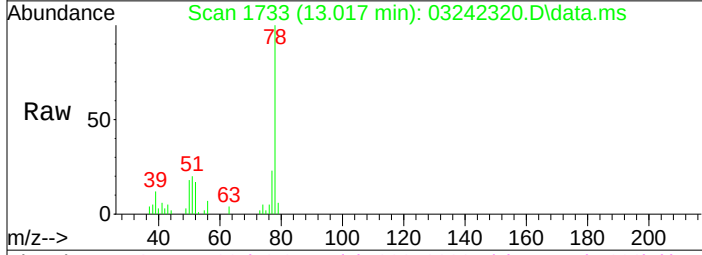
#38
 1,1,1-Trichloroethane
 Concen: 0.05 ng
 RT: 12.53 min Scan# 1645
 Delta R.T. -0.016 min
 Lab File: 03242320.D
 Acq: 24 Mar 2023 17:25

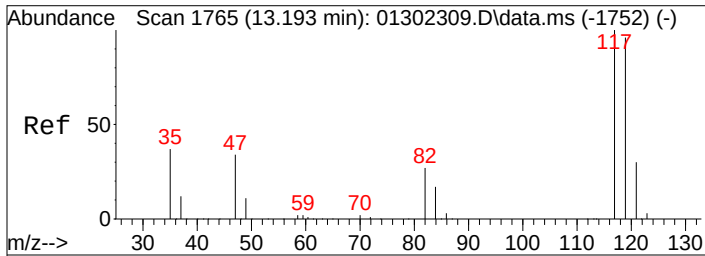
Tgt Ion:	97	Resp:	1371
Ion Ratio		Lower	Upper
97	100		
99	64.5	44.0	84.0
61	39.0	26.8	66.8



#41
 Benzene
 Concen: 0.47 ng
 RT: 13.02 min Scan# 1733
 Delta R.T. -0.011 min
 Lab File: 03242320.D
 Acq: 24 Mar 2023 17:25

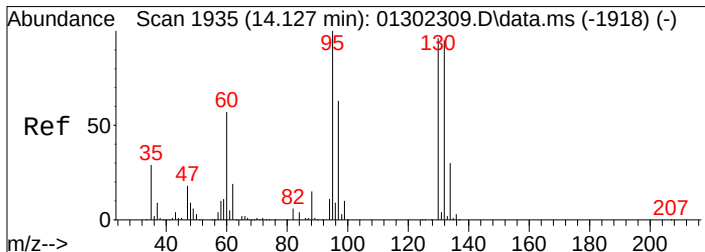
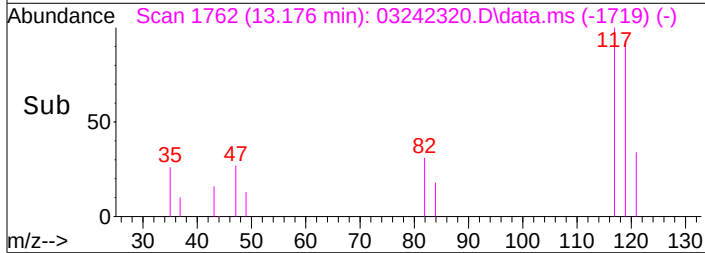
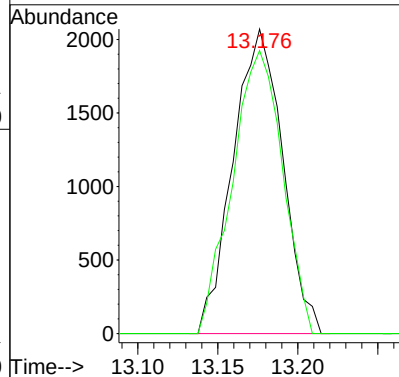
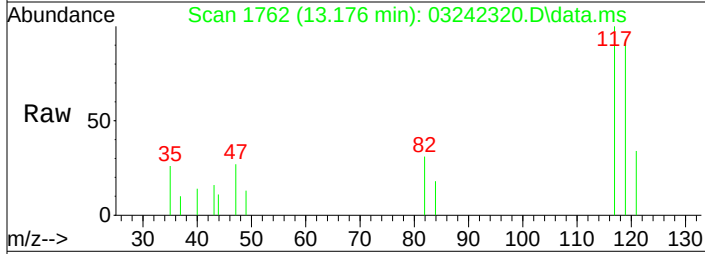
Tgt Ion:	78	Resp:	31189
Ion Ratio		Lower	Upper
78	100		
77	24.2	3.3	43.3





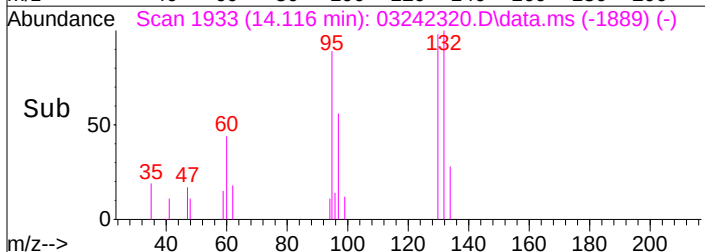
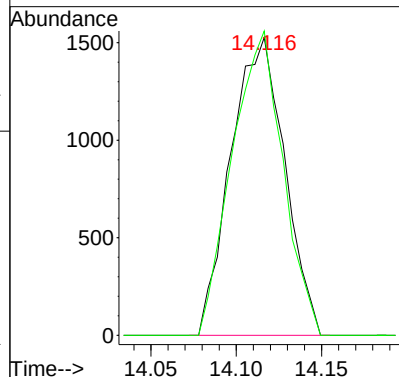
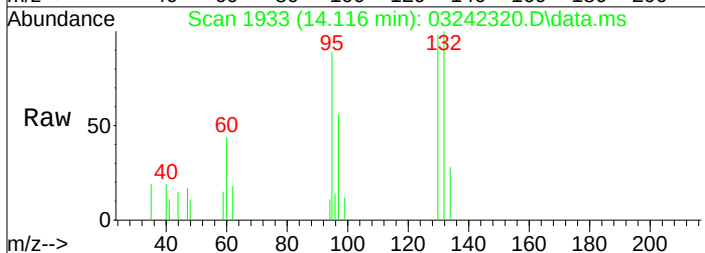
#42
Carbon Tetrachloride
Concen: 0.21 ng
RT: 13.18 min Scan# 1762
Delta R.T. -0.011 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:25

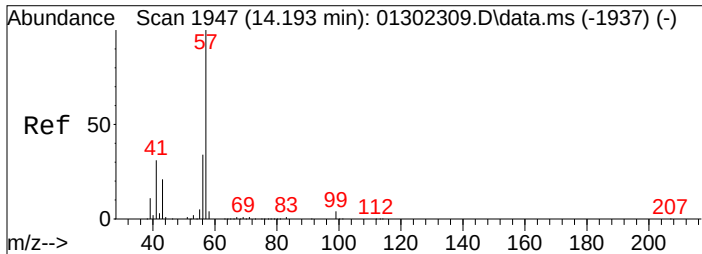
Tgt Ion:117 Resp: 4458
Ion Ratio Lower Upper
117 100
119 94.0 76.2 116.2



#47
Trichloroethene
Concen: 0.19 ng
RT: 14.12 min Scan# 1933
Delta R.T. -0.005 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:25

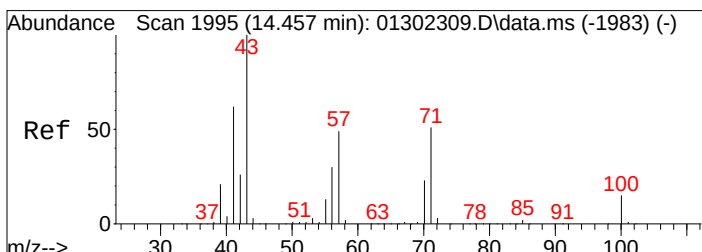
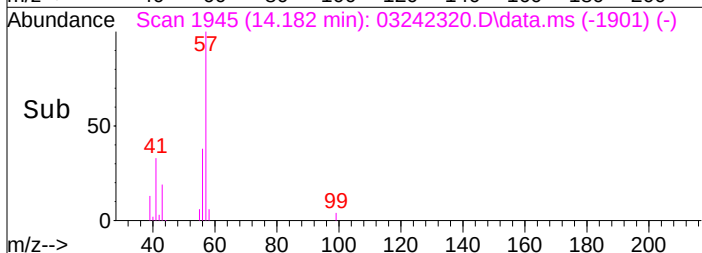
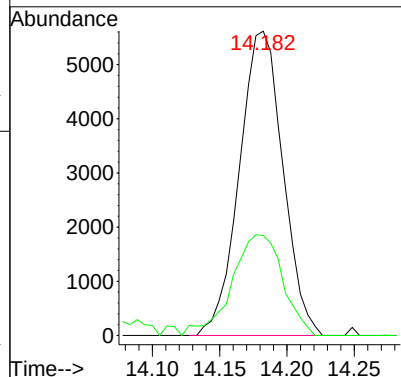
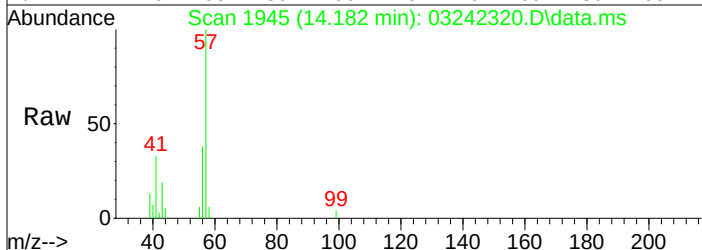
Tgt Ion:130 Resp: 3346
Ion Ratio Lower Upper
130 100
132 96.5 78.7 118.7





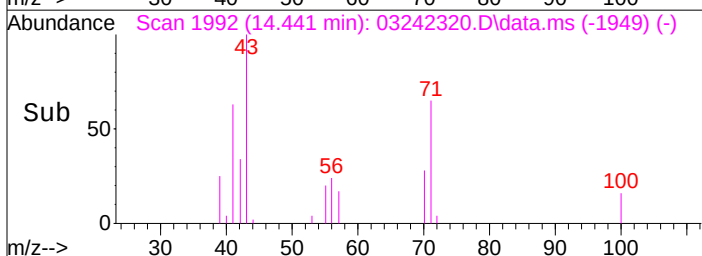
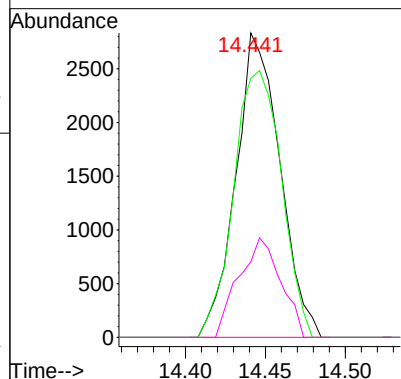
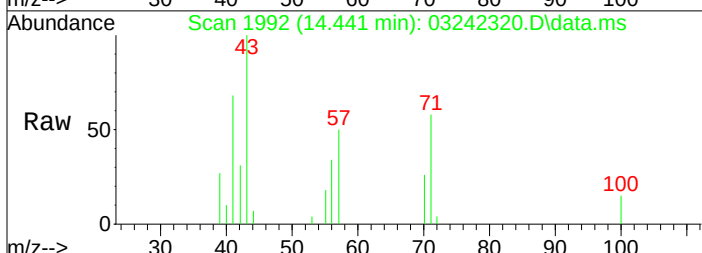
#49
 2,2,4-Trimethylpentane (Isooctane)
 Concen: 0.14 ng
 RT: 14.18 min Scan# 1945
 Delta R.T. -0.005 min
 Lab File: 03242320.D
 Acq: 24 Mar 2023 17:25

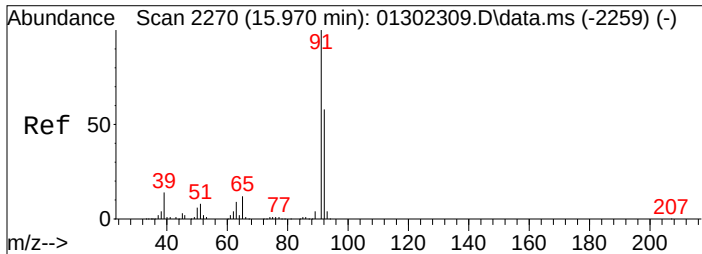
Tgt Ion:	57	Resp:	12623
Ion Ratio	Lower	Upper	
57	100		
41	38.6	5.8	45.8



#51
 n-Heptane
 Concen: 0.28 ng
 RT: 14.44 min Scan# 1992
 Delta R.T. -0.011 min
 Lab File: 03242320.D
 Acq: 24 Mar 2023 17:25

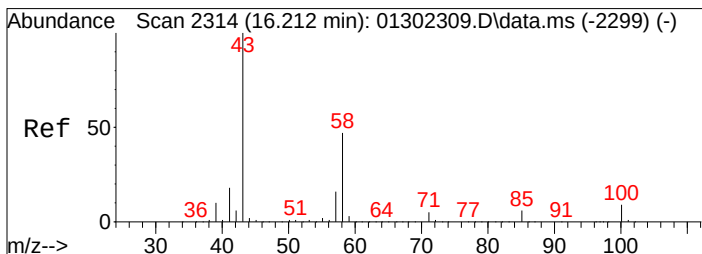
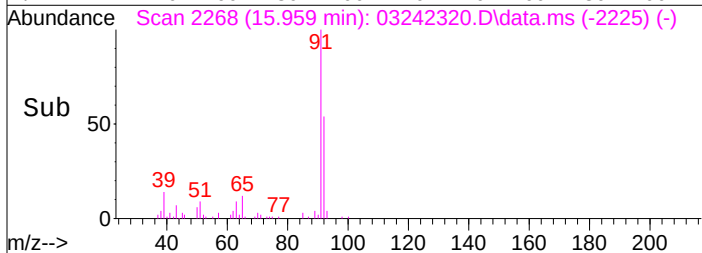
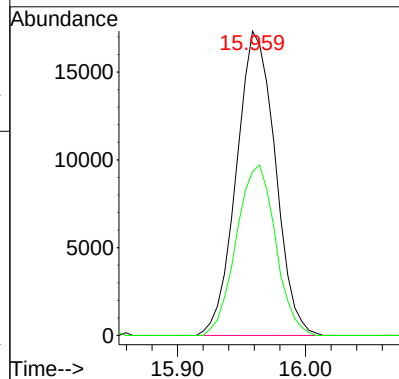
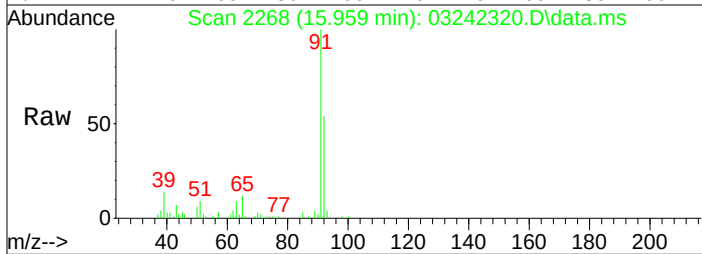
Tgt Ion:	71	Resp:	5434
Ion Ratio	Lower	Upper	
71	100		
57	95.0	81.4	121.4
100	31.1	11.8	51.8





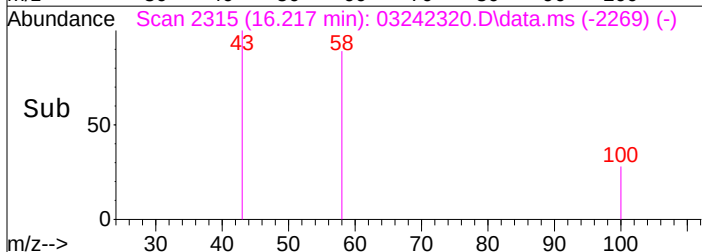
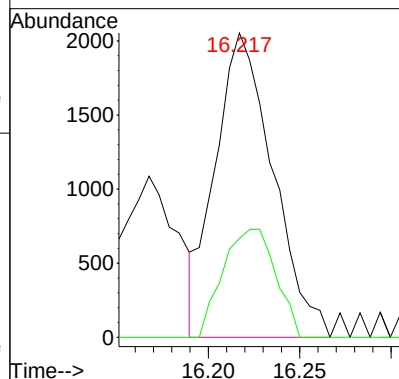
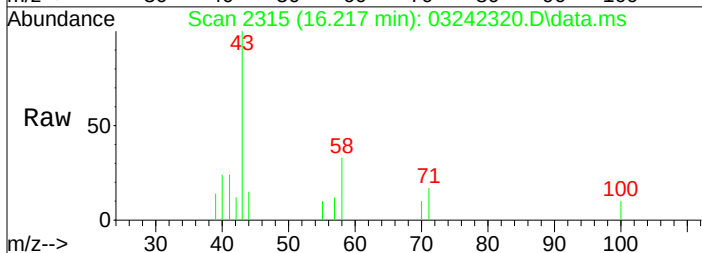
#58
Toluene
Concen: 0.45 ng
RT: 15.96 min Scan# 2268
Delta R.T. -0.011 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:25

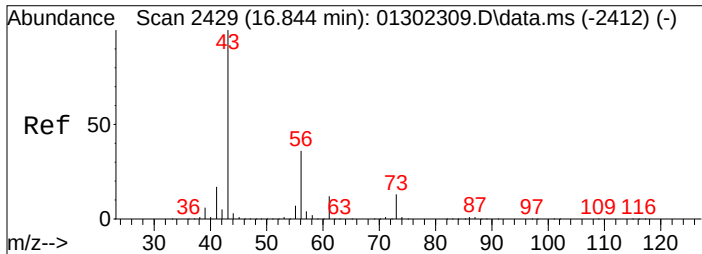
Tgt Ion: 91 Resp: 36480
Ion Ratio Lower Upper
91 100
92 56.5 39.8 79.8



#59
2-Hexanone
Concen: 0.11 ng
RT: 16.22 min Scan# 2315
Delta R.T. 0.006 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:25

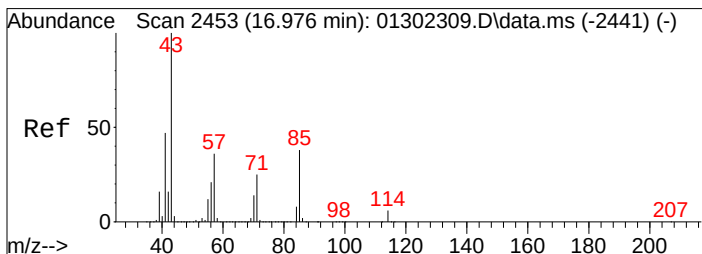
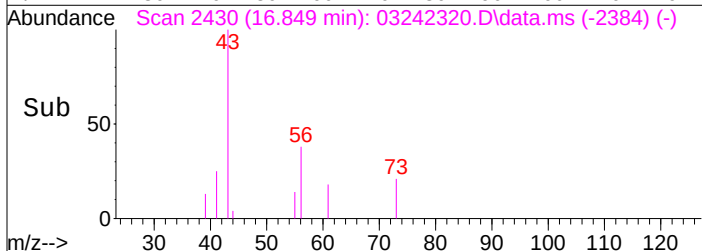
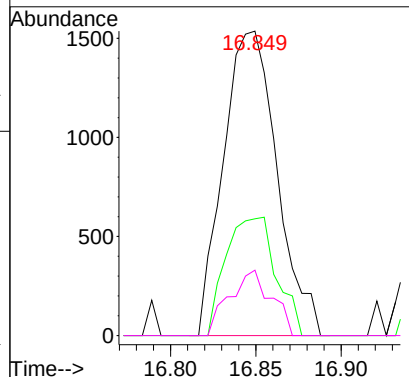
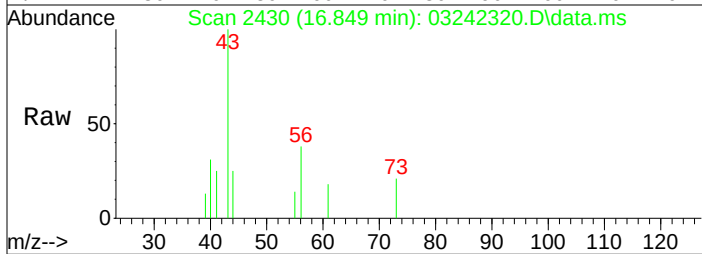
Tgt Ion: 43 Resp: 4502
Ion Ratio Lower Upper
43 100
58 32.5 32.3 72.3





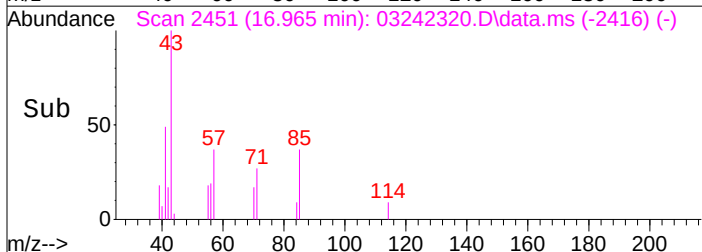
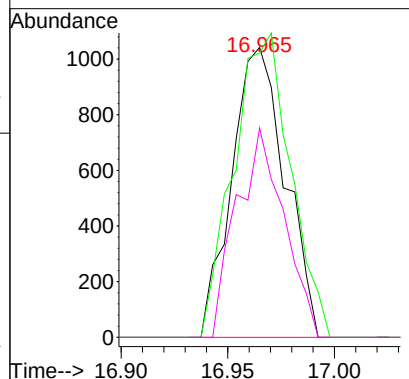
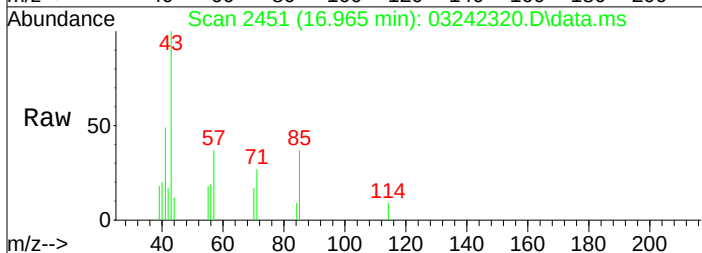
#62
n-Butyl Acetate
Concen: 0.07 ng
RT: 16.85 min Scan# 2430
Delta R.T. 0.005 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:25

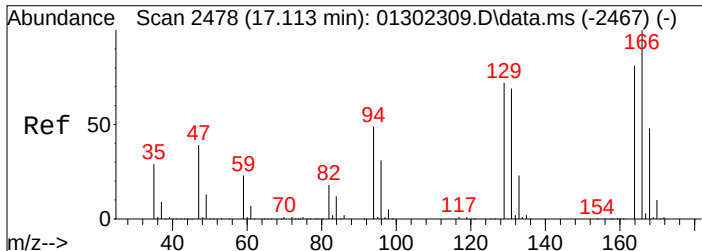
Tgt Ion:	43	Resp:	3363
Ion Ratio		Lower	Upper
43	100		
56	36.4	21.0	61.0
73	16.8	0.0	34.3



#63
n-Octane
Concen: 0.09 ng
RT: 16.96 min Scan# 2451
Delta R.T. -0.005 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:25

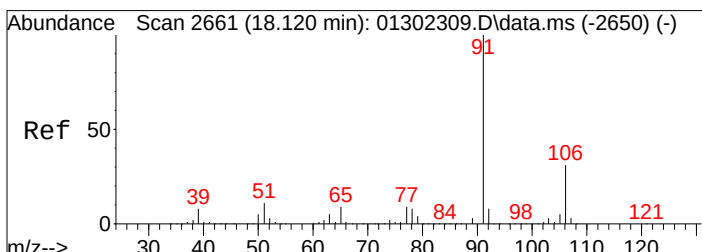
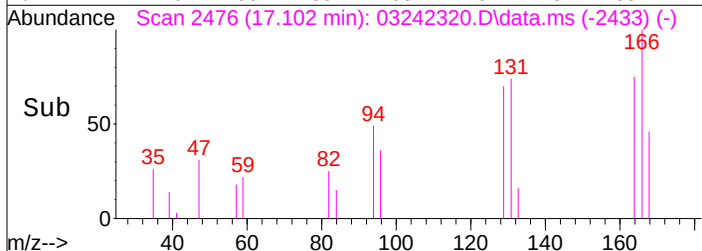
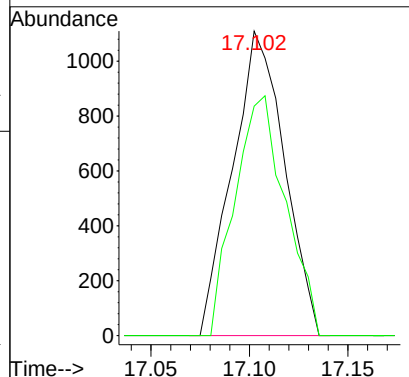
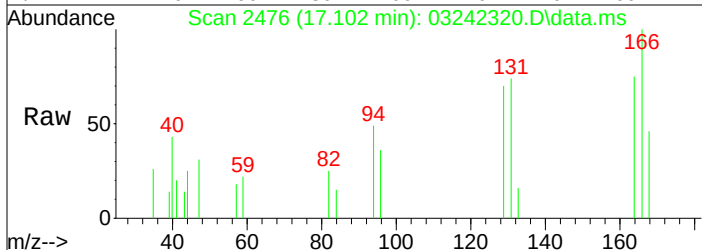
Tgt Ion:	57	Resp:	1823
Ion Ratio		Lower	Upper
57	100		
85	111.7	81.4	122.2
71	63.7	51.7	77.5





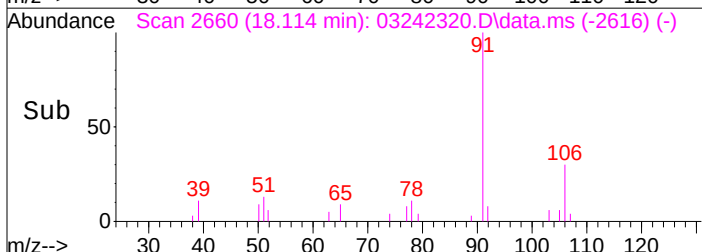
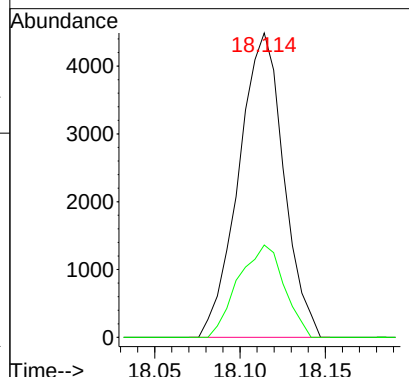
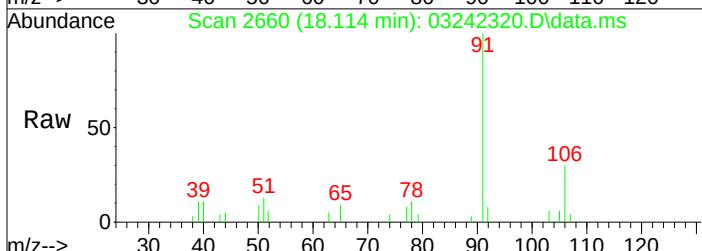
#64
 Tetrachloroethene
 Concen: 0.10 ng
 RT: 17.10 min Scan# 2476
 Delta R.T. -0.011 min
 Lab File: 03242320.D
 Acq: 24 Mar 2023 17:25

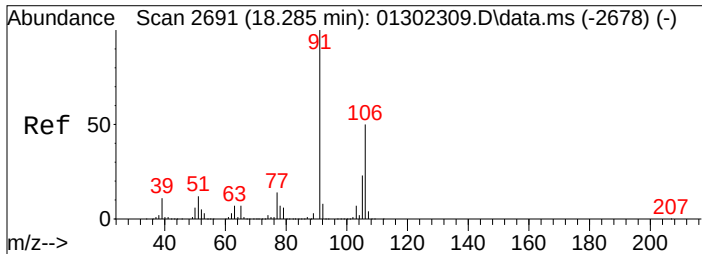
Tgt Ion: 166 Resp: 2032
 Ion Ratio Lower Upper
 166 100
 164 76.7 58.7 98.7



#66
 Ethylbenzene
 Concen: 0.09 ng
 RT: 18.11 min Scan# 2660
 Delta R.T. -0.005 min
 Lab File: 03242320.D
 Acq: 24 Mar 2023 17:25

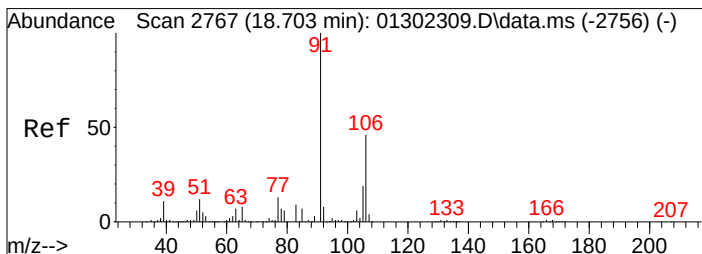
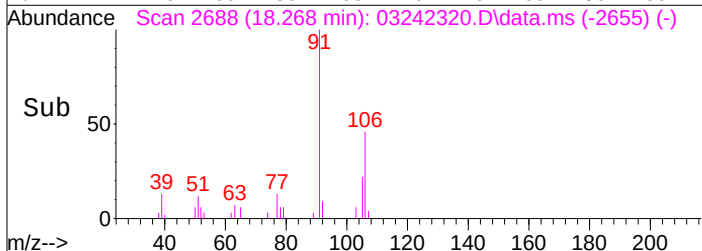
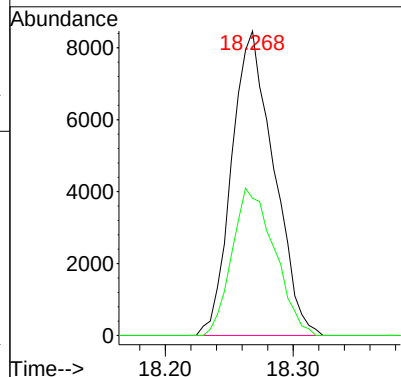
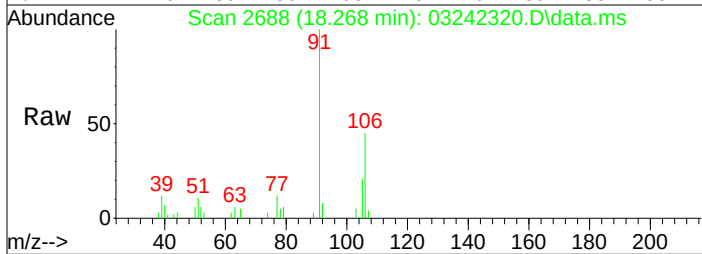
Tgt Ion: 91 Resp: 8236
 Ion Ratio Lower Upper
 91 100
 106 30.9 11.5 51.5





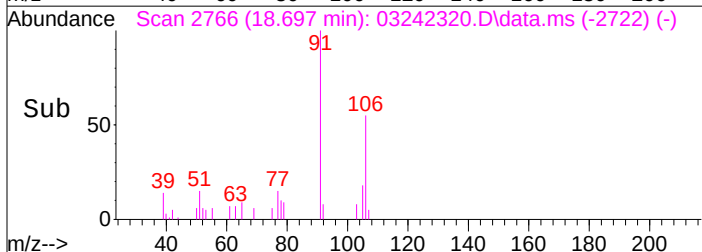
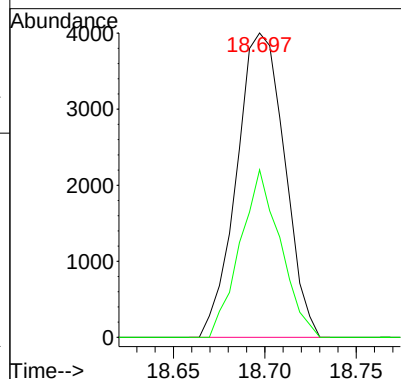
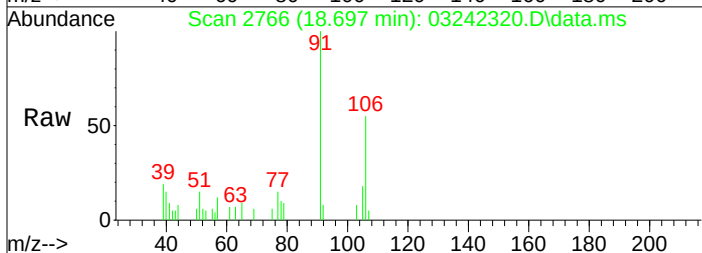
#67
 m- & p-Xylenes
 Concen: 0.27 ng
 RT: 18.27 min Scan# 2688
 Delta R.T. -0.016 min
 Lab File: 03242320.D
 Acq: 24 Mar 2023 17:25

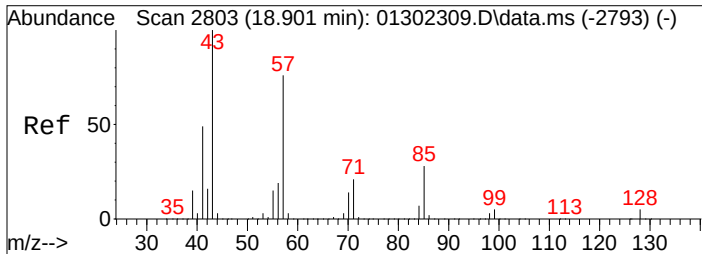
Tgt Ion:	91	Resp:	19334
Ion Ratio	Lower	Upper	
91	100		
106	48.8	29.2	69.2



#70
 o-Xylene
 Concen: 0.10 ng
 RT: 18.70 min Scan# 2766
 Delta R.T. -0.005 min
 Lab File: 03242320.D
 Acq: 24 Mar 2023 17:25

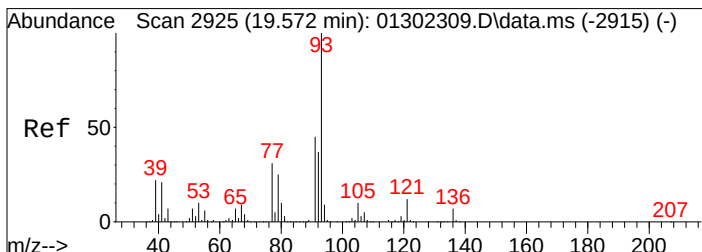
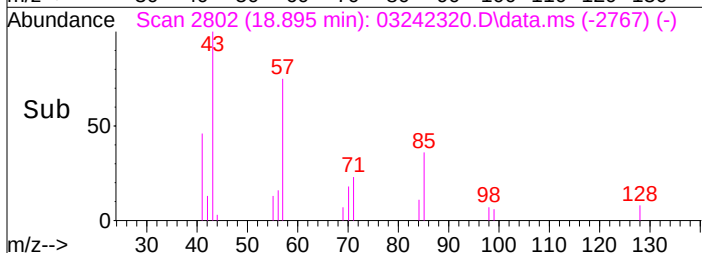
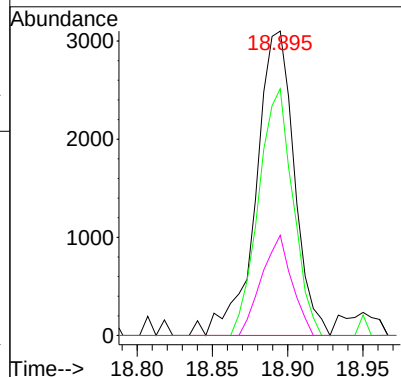
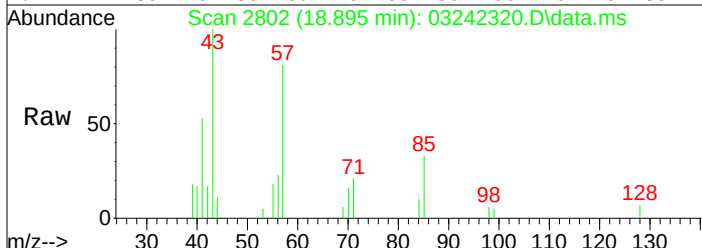
Tgt Ion:	91	Resp:	7306
Ion Ratio	Lower	Upper	
91	100		
106	46.4	27.3	67.3





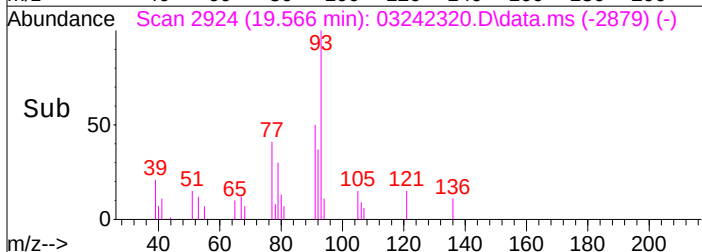
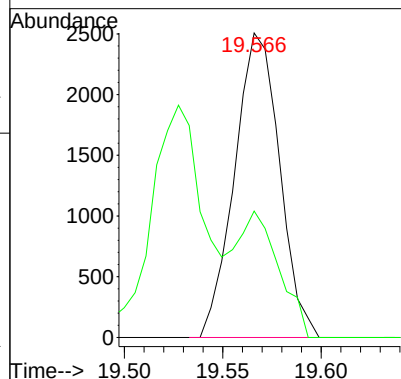
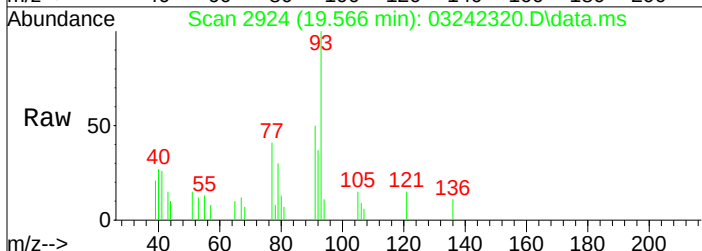
#71
n-Nonane
Concen: 0.11 ng
RT: 18.90 min Scan# 2802
Delta R.T. -0.005 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:25

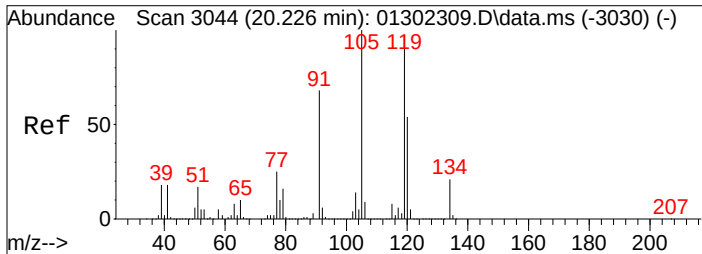
Tgt Ion:	43	Resp:	5512
Ion Ratio		Lower	Upper
43	100		
57	72.3	64.6	104.6
85	25.9	9.6	49.6



#75
alpha-Pinene
Concen: 0.17 ng
RT: 19.57 min Scan# 2924
Delta R.T. -0.005 min
Lab File: 03242320.D
Acq: 24 Mar 2023 17:25

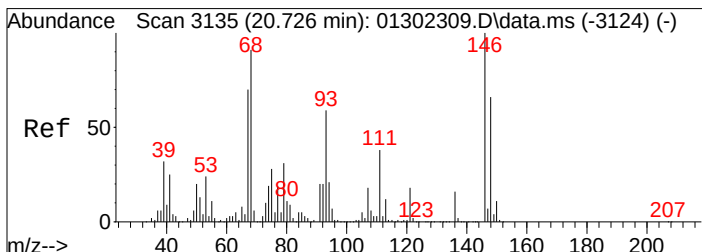
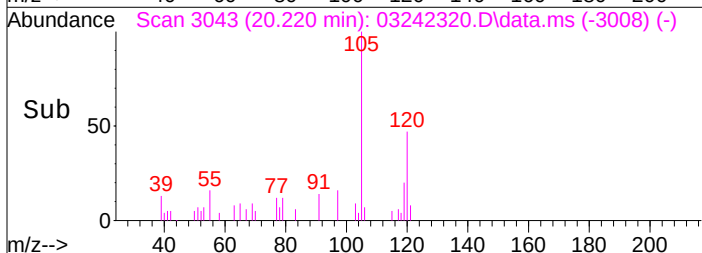
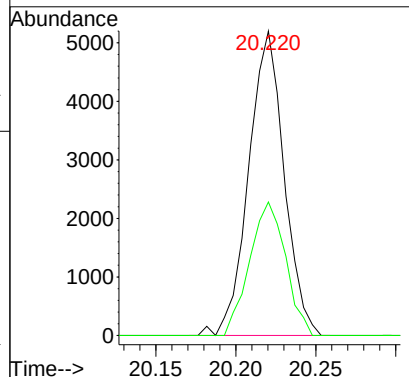
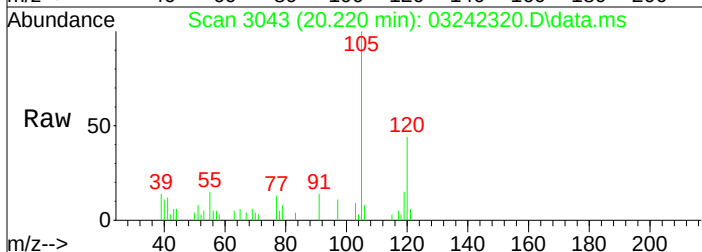
Tgt Ion:	93	Resp:	3988
Ion Ratio		Lower	Upper
93	100		
77	40.3	11.7	51.7





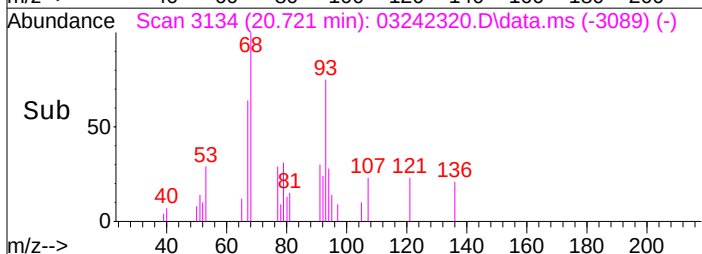
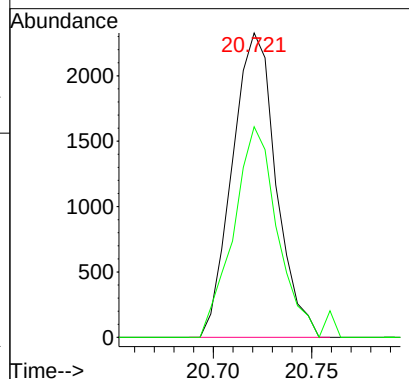
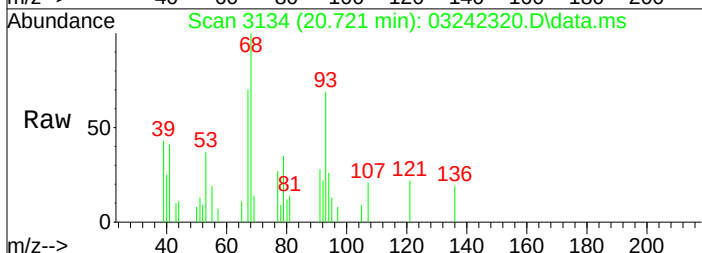
#82
 1,2,4-Trimethylbenzene
 Concen: 0.11 ng
 RT: 20.22 min Scan# 3043
 Delta R.T. -0.005 min
 Lab File: 03242320.D
 Acq: 24 Mar 2023 17:25

Tgt Ion: 105 Resp: 8005
 Ion Ratio Lower Upper
 105 100
 120 44.5 37.2 77.2



#91
 d-Limonene
 Concen: 0.17 ng
 RT: 20.72 min Scan# 3134
 Delta R.T. -0.005 min
 Lab File: 03242320.D
 Acq: 24 Mar 2023 17:25

Tgt Ion: 68 Resp: 3605
 Ion Ratio Lower Upper
 68 100
 93 69.1 49.6 89.6



Data File : I:\MS16\DATA\2023_03\24\03242320.D
 Acq On : 24 Mar 2023 17:25
 Sample : P2301250-044 (1000mL)
 Misc : S35-01312301

Vial: 6
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 26 20:48:30 2023
 Quant Method : I:\MS16\METHODS\C16122022.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Dec 21 05:02:49 2022
 Response via : Initial Calibration
 DataAcq Meth:T015B.M

3/26/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.28	130	204903	12.500	ng	-0.02
16) 1,4-Difluorobenzene (C_2)	13.41	114	941947	12.500	ng	-0.02
19) Chlorobenzene-d5 (C_3)	17.72	54	210305	12.500	ng	0.00

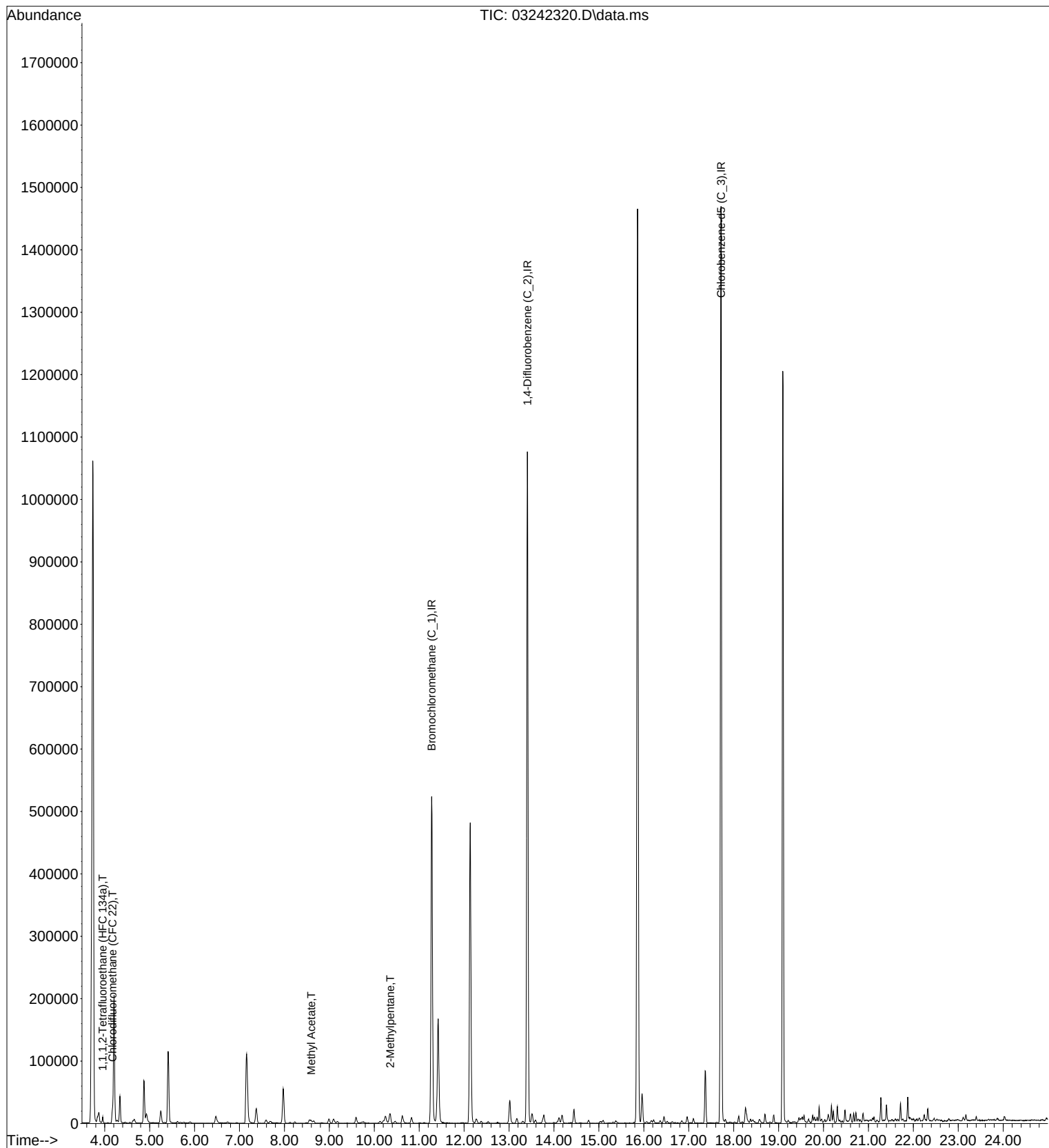
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.87	85	309	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.95	83	4040	0.249	ng	94
4) 1,1-Difluoroethane	4.07	65	380	N.D.		
5) Chlorodifluoromethane ...	4.17	67	1677	0.331	ng	89
6) 1-Chloro-1,1-Difluoroe...	4.64	65	1421	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	8.60	43	7566	0.149	ng	# 96
12) 2-Methylpentane	10.36	71	3940	0.196	ng	# 66
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	13.18	84	794	N.D.		
17) 2,3-Dimethylpentane	13.59	56	2204	N.D.		
18) Dibromomethane	13.84	174	111	N.D.		
20) Methyl Cyclohexane	15.09	55	1913	N.D.		
21) 1,3-Dichloropropane	0.00	76	0	N.D.	d	
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	0.00	91	0	N.D.		
24) 1,2,3-Trichloropropane	18.70	75	255	N.D.		
25) Bromobenzene	19.22	77	51	N.D.		
26) 2-Chlorotoluene	19.67	91	2517	N.D.		
27) 4-Chlorotoluene	19.67	91	2517	N.D.		
28) Indane	20.77	117	756	N.D.		
29) Indene	20.77	115	164	N.D.		
30) 1,2,4,5-Tetramethylben...	21.65	119	1124	N.D.		
31) 1,2,3,4-Tetramethylben...	21.65	119	1124	N.D.		
32) 1,2,3,5-Tetramethylben...	21.99	119	883	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\24\03242320.D
Acq On : 24 Mar 2023 17:25
Sample : P2301250-044 (1000mL)
Misc : S35-01312301

Vial: 6
Operator: WA
Inst : GCMS-16

Quant Time: Mar 26 20:48:30 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG21-1

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-045

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02348

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.51 Final Pressure (psig): 4.61

Container Dilution Factor: 2.10

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.9	1.1	0.18	0.59	0.23	0.037	
74-87-3	Chloromethane	0.27	0.44	0.18	0.13	0.21	0.087	J
75-01-4	Vinyl Chloride	ND	0.23	0.12	ND	0.090	0.047	
74-83-9	Bromomethane	ND	0.44	0.16	ND	0.11	0.040	
75-00-3	Chloroethane	ND	0.44	0.14	ND	0.17	0.053	
67-64-1	Acetone	4.4	11	2.5	1.9	4.7	1.1	J
75-69-4	Trichlorofluoromethane	1.4	1.1	0.17	0.24	0.19	0.030	
75-35-4	1,1-Dichloroethene	ND	0.23	0.16	ND	0.058	0.039	
75-09-2	Methylene Chloride	0.40	1.1	0.32	0.11	0.32	0.091	J
76-13-1	Trichlorotrifluoroethane	0.49	1.1	0.16	0.064	0.15	0.021	J
75-15-0	Carbon Disulfide	ND	2.2	0.34	ND	0.72	0.11	
156-60-5	trans-1,2-Dichloroethene	ND	0.23	0.16	ND	0.058	0.039	
75-34-3	1,1-Dichloroethane	ND	0.23	0.16	ND	0.057	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	1.1	0.13	ND	0.31	0.037	
78-93-3	2-Butanone (MEK)	0.66	2.2	0.23	0.22	0.74	0.078	J
156-59-2	cis-1,2-Dichloroethene	0.74	0.23	0.16	0.19	0.058	0.040	
67-66-3	Chloroform	1.2	0.23	0.15	0.25	0.047	0.031	
107-06-2	1,2-Dichloroethane	ND	0.23	0.12	ND	0.057	0.031	
71-55-6	1,1,1-Trichloroethane	ND	0.23	0.14	ND	0.042	0.025	
71-43-2	Benzene	0.49	0.23	0.16	0.15	0.072	0.051	
56-23-5	Carbon Tetrachloride	0.47	0.23	0.16	0.075	0.037	0.025	
110-82-7	Cyclohexane	ND	2.2	0.32	ND	0.64	0.092	
78-87-5	1,2-Dichloropropane	ND	0.23	0.14	ND	0.050	0.030	
75-27-4	Bromodichloromethane	0.17	0.23	0.16	0.026	0.034	0.024	J
79-01-6	Trichloroethene	1.1	0.23	0.15	0.20	0.043	0.028	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG21-1

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-045

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02348

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.51 Final Pressure (psig): 4.61

Container Dilution Factor: 2.10

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	0.17	ND	0.25	0.038	
108-10-1	4-Methyl-2-pentanone	ND	2.3	0.15	ND	0.56	0.037	
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.23	ND	0.24	0.051	
79-00-5	1,1,2-Trichloroethane	ND	0.23	0.11	ND	0.042	0.021	
108-88-3	Toluene	0.68	1.1	0.14	0.18	0.30	0.036	J
591-78-6	2-Hexanone	ND	2.3	0.14	ND	0.56	0.034	
124-48-1	Dibromochloromethane	ND	0.23	0.15	ND	0.027	0.017	
106-93-4	1,2-Dibromoethane	ND	0.23	0.13	ND	0.030	0.017	
127-18-4	Tetrachloroethene	0.21	0.23	0.14	0.031	0.034	0.021	J
108-90-7	Chlorobenzene	ND	1.1	0.15	ND	0.24	0.032	
100-41-4	Ethylbenzene	ND	1.1	0.16	ND	0.26	0.036	
179601-23-1	m,p-Xylenes	ND	2.3	0.29	ND	0.53	0.068	
75-25-2	Bromoform	ND	1.1	0.23	ND	0.11	0.022	
100-42-5	Styrene	ND	1.1	0.18	ND	0.26	0.042	
95-47-6	o-Xylene	ND	1.1	0.16	ND	0.26	0.037	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.23	0.16	ND	0.034	0.023	
98-82-8	Cumene	ND	1.1	0.16	ND	0.23	0.033	
541-73-1	1,3-Dichlorobenzene	ND	1.1	0.17	ND	0.19	0.028	
106-46-7	1,4-Dichlorobenzene	ND	1.1	0.17	ND	0.19	0.029	
95-50-1	1,2-Dichlorobenzene	ND	1.1	0.17	ND	0.19	0.028	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.3	0.21	ND	0.24	0.022	
120-82-1	1,2,4-Trichlorobenzene	ND	2.3	0.27	ND	0.31	0.037	
79-20-9	Methyl Acetate	ND	1.1	0.50	ND	0.35	0.17	X
108-87-2	Methylcyclohexane	ND	1.1	0.55	ND	0.26	0.14	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS16\DATA\2023_03\24\03242322.D
 Acq On : 24 Mar 2023 18:33
 Sample : P2301250-045 (1000mL)
 Misc : S35-01312301

Vial: 7
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 26 20:42:58 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

WA 3/26/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	201438	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	921602	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.72	54	204767	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	360903	13.472	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	107.76%	
57) Toluene-d8 (SS2)	15.86	98	1060739	11.832	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	94.64%	
73) Bromofluorobenzene (SS3)	19.10	174	324333	11.600	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	92.80%	

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	4.33	85	41762	1.387	ng	99
4) Chloromethane	4.63	50	3672	0.130	ng	94
5) 1,2-Dichloro-1,1,2,2-t...	4.90	135	941	0.056	ng	87
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	5.77	94	120	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.48	45	13397	0.691	ng	99
11) Acetonitrile	6.73	41	2241	N.D.		
12) Acrolein	6.95	56	1565	0.114	ng	99
13) Acetone	7.16	58	31315	2.112	ng	# 78
14) Trichlorofluoromethane	7.37	101	17913	0.645	ng	99
15) 2-Propanol (Isopropanol)	7.68	45	7020	0.136	ng	89
16) Acrylonitrile	7.89	53	52	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	8.60	59	68	N.D.		
19) Methylene Chloride	8.55	84	3098	0.189	ng	93
20) 3-Chloro-1-propene (Al...	8.65	41	209	N.D.		
21) Trichlorotrifluoroethane	8.99	151	3230	0.233	ng	90
22) Carbon Disulfide	8.82	76	1303	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	10.08	63	174	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	10.63	72	3375	0.314	ng	# 91
28) cis-1,2-Dichloroethene	11.11	61	8746	0.354	ng	95
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	11.42	61	38286	5.446	ng	95
31) n-Hexane	11.41	57	3290	0.094	ng	93
32) Chloroform	11.44	83	15912	0.592	ng	98
34) Tetrahydrofuran (THF)	11.94	72	115	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	12.26	62	785	N.D.		
38) 1,1,1-Trichloroethane	12.54	97	552	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.02	78	15077	0.232	ng	99
42) Carbon Tetrachloride	13.18	117	4726	0.224	ng	99
43) Cyclohexane	13.30	84	1078	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	14.05	83	1780	0.083	ng	96
47) Trichloroethene	14.11	130	9231	0.523	ng	97
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	14.18	57	6139	0.070	ng	74
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS16\DATA\2023_03\24\03242322.D
 Acq On : 24 Mar 2023 18:33
 Sample : P2301250-045 (1000mL)
 Misc : S35-01312301

Vial: 7
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 26 20:42:58 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:TO15B.M

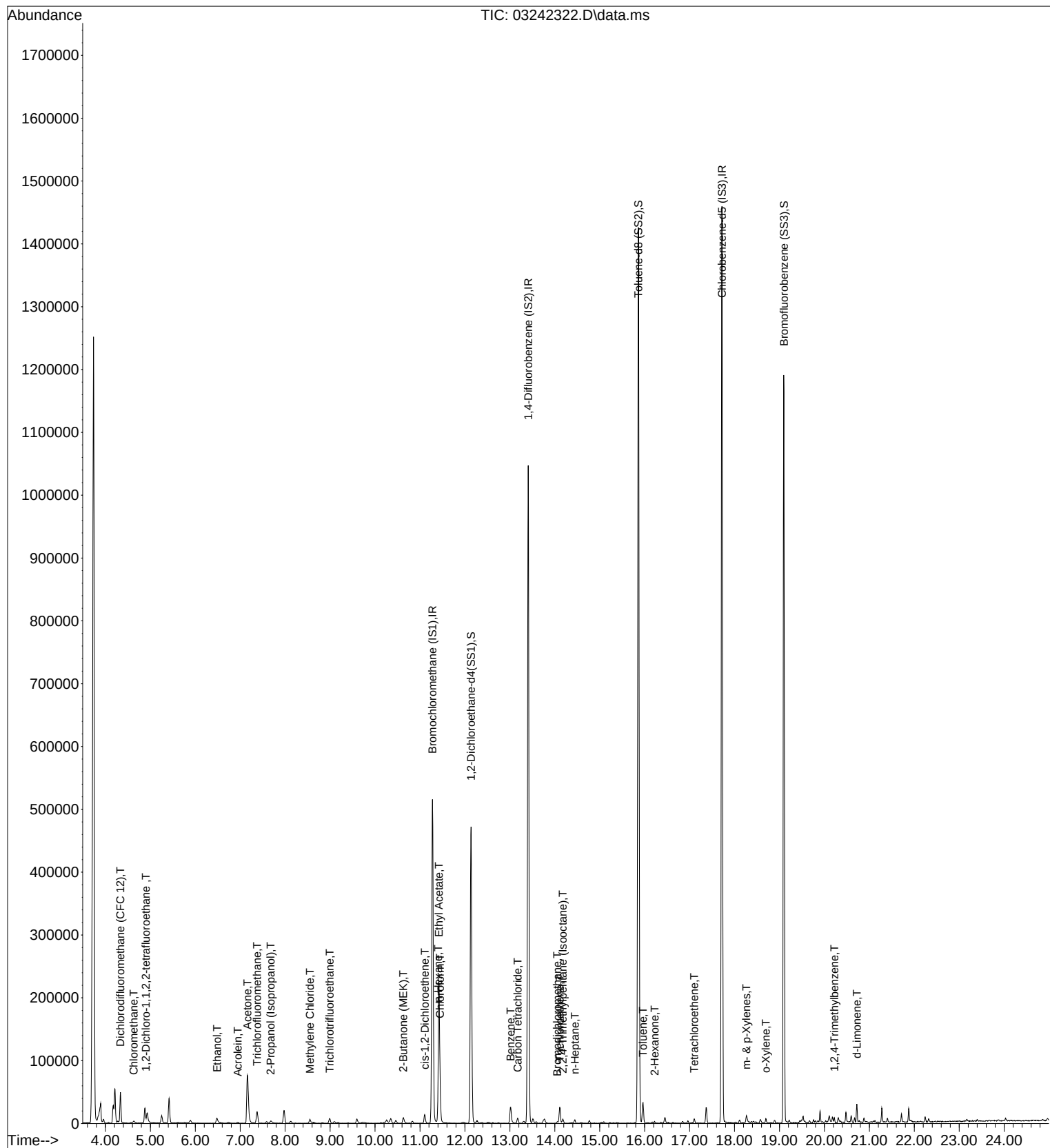
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.45	71	1099	0.058	ng	95
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	15.04	58	322	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.96	91	25536	0.325	ng	98
59) 2-Hexanone	16.22	43	2465	0.059	ng	77
60) Dibromochloromethane	16.37	129	236	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.84	43	2326	N.D.		
63) n-Octane	16.97	57	500	N.D.		
64) Tetrachloroethene	17.10	166	1977	0.099	ng	93
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	18.11	91	3980	N.D.		
67) m- & p-Xylenes	18.26	91	8959	0.128	ng	96
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.60	104	797	N.D.		
70) o-Xylene	18.70	91	3555	0.052	ng	96
71) n-Nonane	18.90	43	2120	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	19.22	105	1536	N.D.		
75) alpha-Pinene	19.57	93	927	N.D.		
76) n-Propylbenzene	19.67	91	1413	N.D.		
77) 3-Ethyltoluene	20.22	105	3992	No Calib	#	
78) 4-Ethyltoluene	19.79	105	1040	N.D.		
79) 1,3,5-Trimethylbenzene	19.86	105	1286	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.22	105	3992	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.22	105	3992	0.056	ng	84
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
86) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
87) sec-Butylbenzene	20.46	105	213	N.D.		
88) 4-Isopropyltoluene (p-...	20.59	119	4194	N.D.		
89) 1,2,3-Trimethylbenzene	20.22	105	3992	No Calib	#	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	20.72	68	6392	0.317	ng	98
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	21.28	58	116	No Calib	#	
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	22.34	128	1072	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	18.19	55	110	No Calib	#	
99) tert-Butylbenzene	20.21	119	612	N.D.		
100) n-Butylbenzene	20.95	91	593	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\24\03242322.D
Acq On : 24 Mar 2023 18:33
Sample : P2301250-045 (1000mL)
Misc : S35-01312301

Vial: 7
Operator: WA
Inst : GCMS-16

Quant Time: Mar 26 20:42:58 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



Data File : I:\MS16\DATA\2023_03\24\03242322.D
 Acq On : 24 Mar 2023 18:33
 Sample : P2301250-045 (1000mL)
 Misc : S35-01312301

Vial: 7
 Operator: WA
 Inst : GCMS-16

IDA 3/26/23

Quant Time: Mar 26 20:42:58 2023
 Quant Method : I:\MS16\METHODS\R16122022.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Wed Dec 21 03:06:38 2022
 Response via : Initial Calibration
 DataAcq Meth:T015B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	201438	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	921602	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.72	54	204767	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	360903	13.472	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	107.76%	
57) Toluene-d8 (SS2)	15.86	98	1060739	11.832	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	94.64%	
73) Bromofluorobenzene (SS3)	19.10	174	324333	11.600	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	92.80%	

Target Compounds

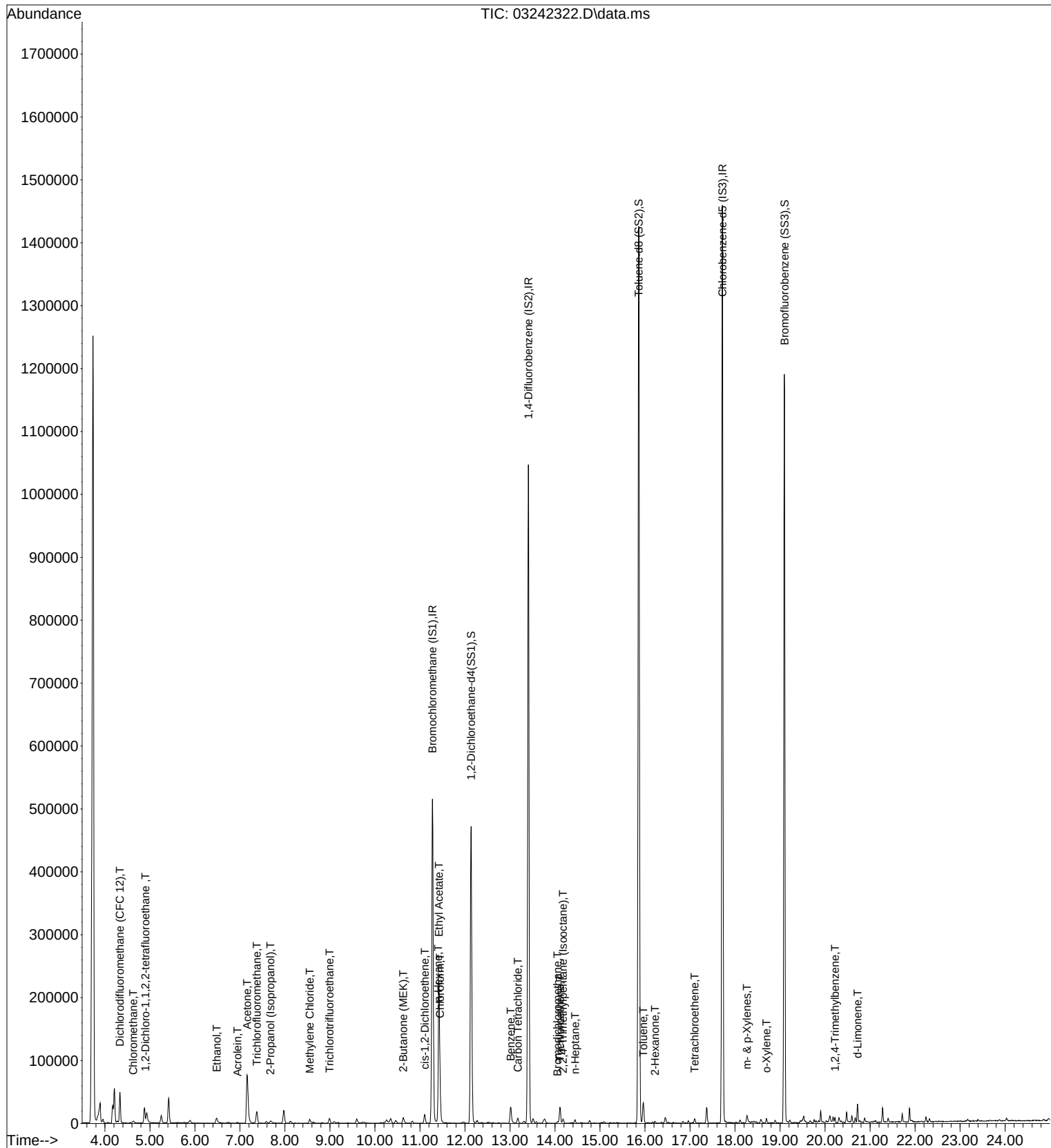
						Qvalue
3) Dichlorodifluoromethan...	4.33	85	41762	1.387	ng	99
4) Chloromethane	4.63	50	3672	0.130	ng	94
5) 1,2-Dichloro-1,1,2,2-t...	4.90	135	941	0.056	ng	87
10) Ethanol	6.48	45	13397	0.691	ng	99
12) Acrolein	6.95	56	1565	0.114	ng	99
13) Acetone	7.16	58	31315	2.112	ng	# 78
14) Trichlorofluoromethane	7.37	101	17913	0.645	ng	99
15) 2-Propanol (Isopropanol)	7.68	45	7020	0.136	ng	89
19) Methylene Chloride	8.55	84	3098	0.189	ng	93
21) Trichlorotrifluoroethane	8.99	151	3230	0.233	ng	90
27) 2-Butanone (MEK)	10.63	72	3375	0.314	ng	# 91
28) cis-1,2-Dichloroethene	11.11	61	8746	0.354	ng	95
30) Ethyl Acetate	11.42	61	38286	5.446	ng	95
31) n-Hexane	11.41	57	3290	0.094	ng	93
32) Chloroform	11.44	83	15912	0.592	ng	98
41) Benzene	13.02	78	15077	0.232	ng	99
42) Carbon Tetrachloride	13.18	117	4726	0.224	ng	99
46) Bromodichloromethane	14.05	83	1780	0.083	ng	96
47) Trichloroethene	14.11	130	9231	0.523	ng	97
49) 2,2,4-Trimethylpentane...	14.18	57	6139	0.070	ng	74
51) n-Heptane	14.45	71	1099	0.058	ng	95
58) Toluene	15.96	91	25536	0.325	ng	98
59) 2-Hexanone	16.22	43	2465	0.059	ng	77
64) Tetrachloroethene	17.10	166	1977	0.099	ng	93
67) m- & p-Xylenes	18.26	91	8959	0.128	ng	96
70) o-Xylene	18.70	91	3555	0.052	ng	96
82) 1,2,4-Trimethylbenzene	20.22	105	3992	0.056	ng	84
91) d-Limonene	20.72	68	6392	0.317	ng	98

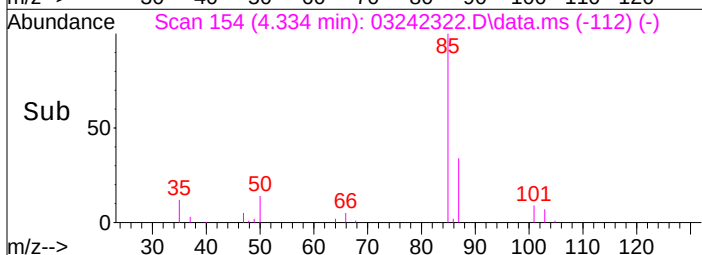
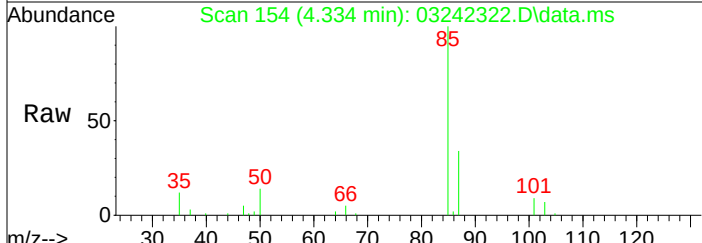
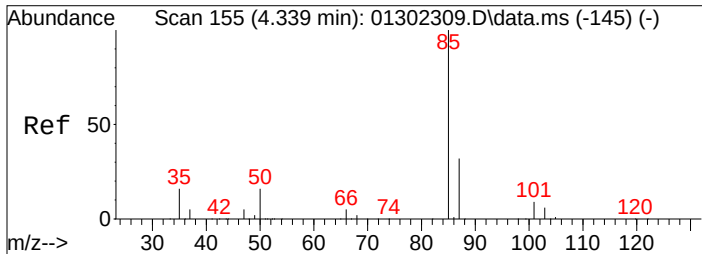
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS16\DATA\2023_03\24\03242322.D
Acq On : 24 Mar 2023 18:33
Sample : P2301250-045 (1000mL)
Misc : S35-01312301

Vial: 7
Operator: WA
Inst : GCMS-16

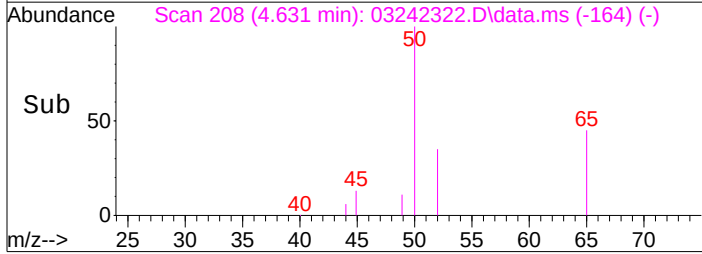
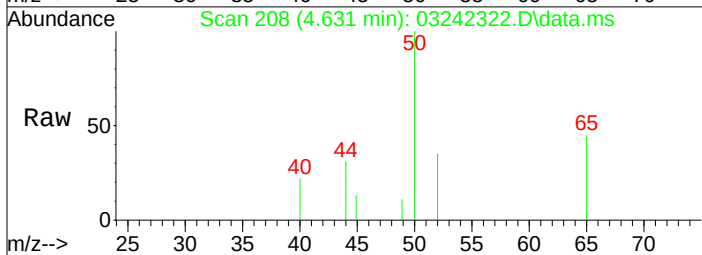
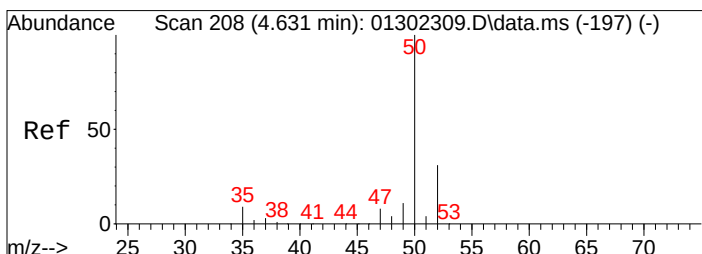
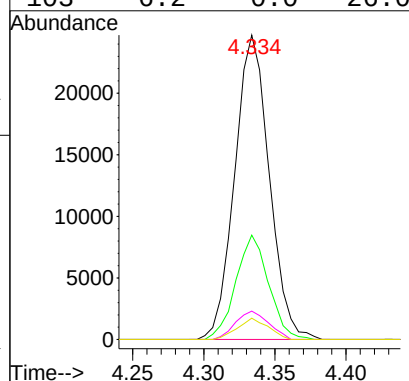
Quant Time: Mar 26 20:42:58 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M





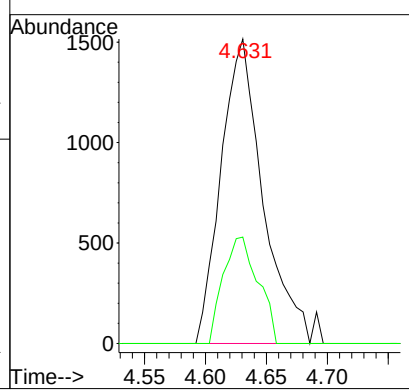
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.39 ng
 RT: 4.33 min Scan# 154
 Delta R.T. -0.016 min
 Lab File: 03242322.D
 Acq: 24 Mar 2023 18:33

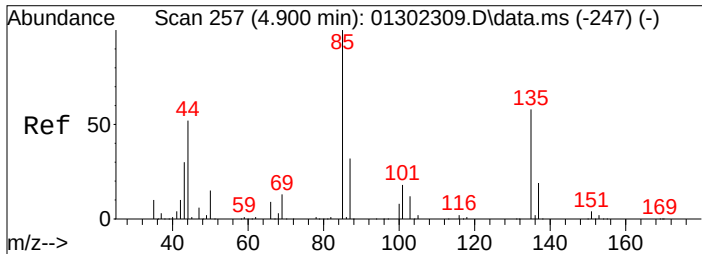
Tgt Ion:	85	Resp:	41762
Ion Ratio		Lower	Upper
85	100		
87	32.5	12.1	52.1
101	9.0	0.0	29.3
103	6.2	0.0	26.0



#4
 Chloromethane
 Concen: 0.13 ng
 RT: 4.63 min Scan# 208
 Delta R.T. -0.005 min
 Lab File: 03242322.D
 Acq: 24 Mar 2023 18:33

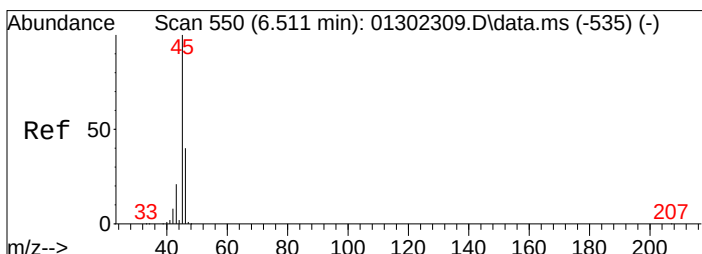
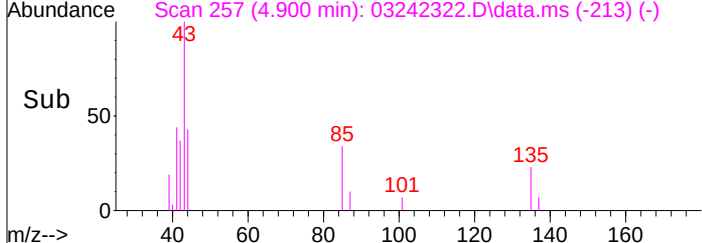
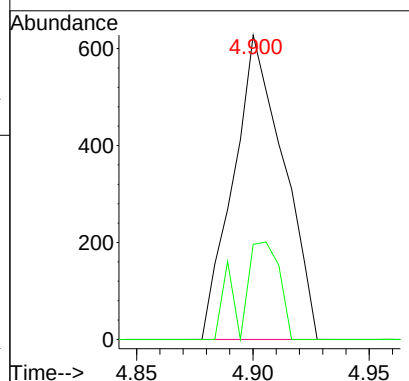
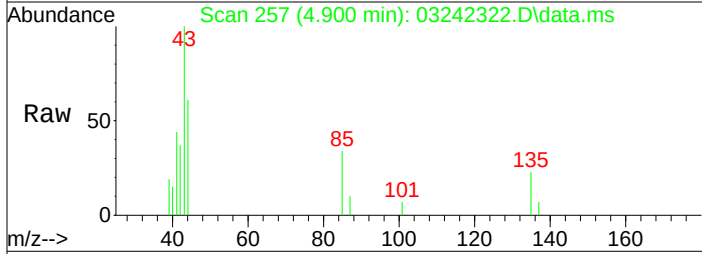
Tgt Ion:	50	Resp:	3672
Ion Ratio		Lower	Upper
50	100		
52	28.8	12.2	52.2





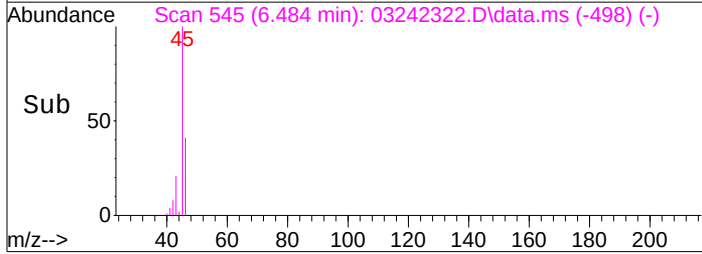
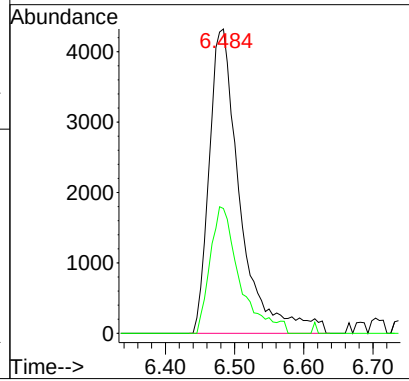
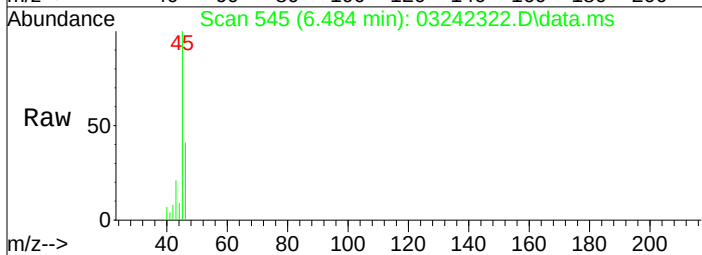
#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.06 ng
 RT: 4.90 min Scan# 257
 Delta R.T. -0.005 min
 Lab File: 03242322.D
 Acq: 24 Mar 2023 18:33

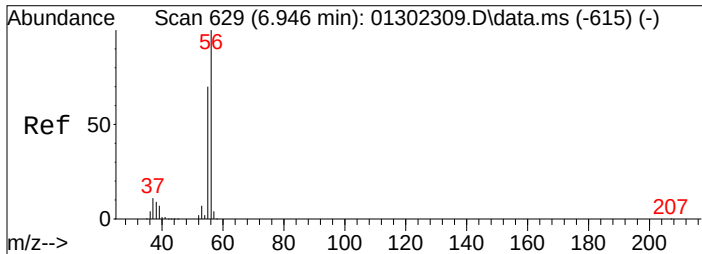
Tgt Ion:	135	Resp:	941
Ion Ratio	Lower	Upper	
135	100		
137	25.0	12.0	52.0



#10
 Ethanol
 Concen: 0.69 ng
 RT: 6.48 min Scan# 545
 Delta R.T. 0.006 min
 Lab File: 03242322.D
 Acq: 24 Mar 2023 18:33

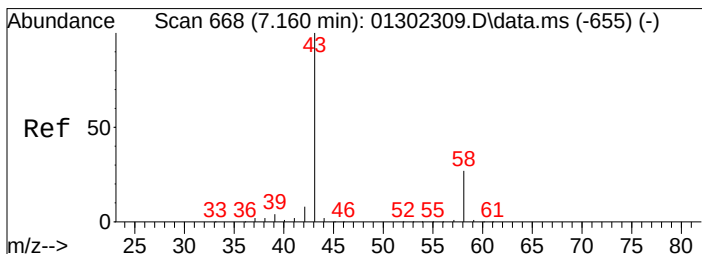
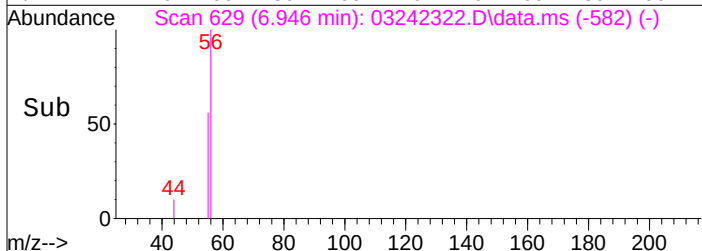
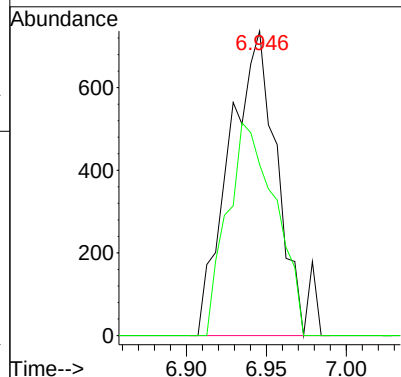
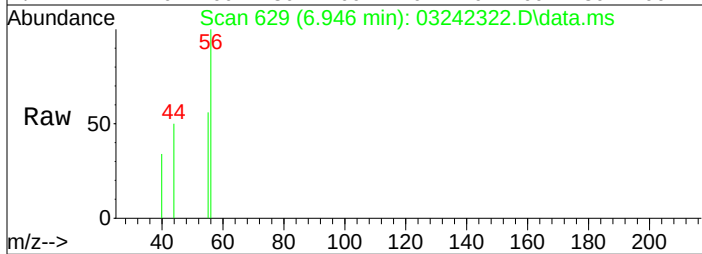
Tgt Ion:	45	Resp:	13397
Ion Ratio	Lower	Upper	
45	100		
46	39.8	20.5	60.5





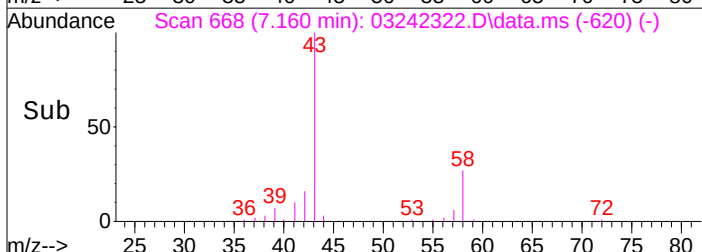
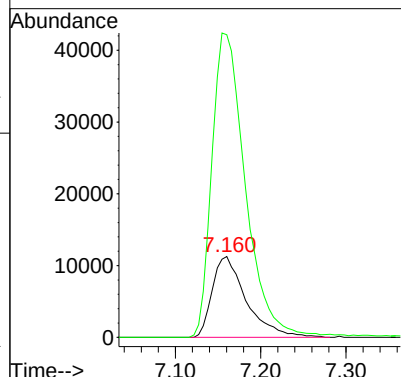
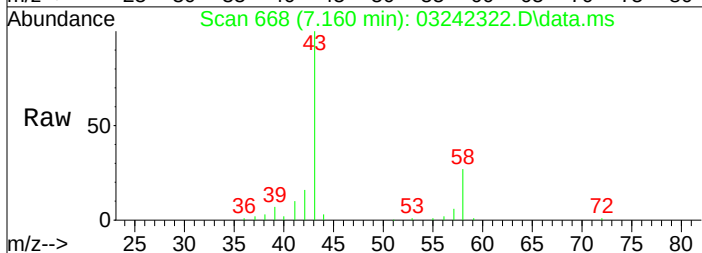
#12
Acrolein
Concen: 0.11 ng
RT: 6.95 min Scan# 629
Delta R.T. 0.011 min
Lab File: 03242322.D
Acq: 24 Mar 2023 18:33

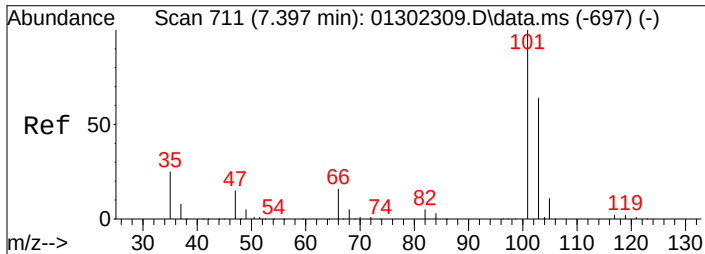
Tgt Ion	Ratio	Resp	Lower	Upper
56	100			
55	68.9	49.9	89.9	



#13
Acetone
Concen: 2.11 ng
RT: 7.16 min Scan# 668
Delta R.T. 0.016 min
Lab File: 03242322.D
Acq: 24 Mar 2023 18:33

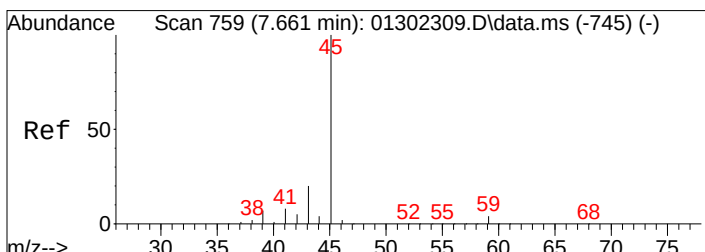
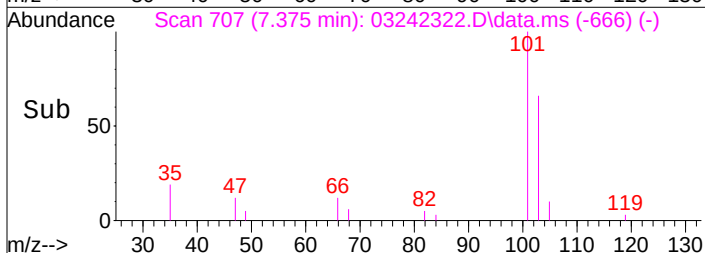
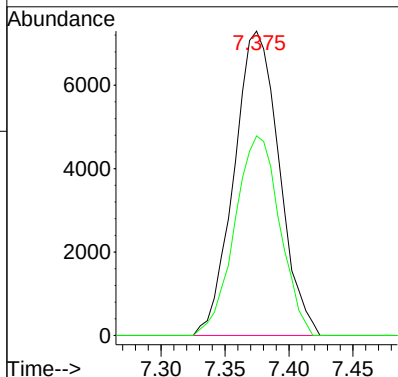
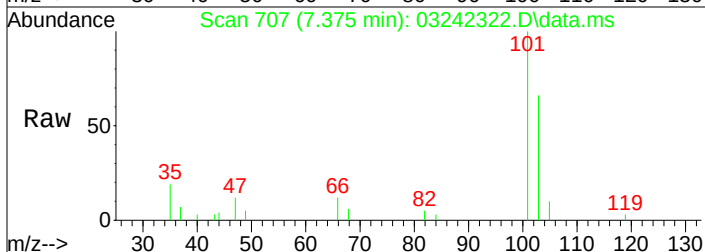
Tgt Ion	Ratio	Resp	Lower	Upper
58	100			
43	373.5	298.5	358.5#	





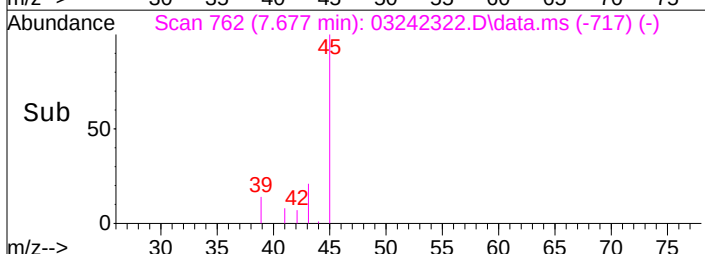
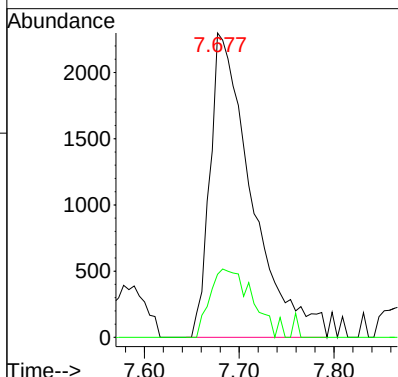
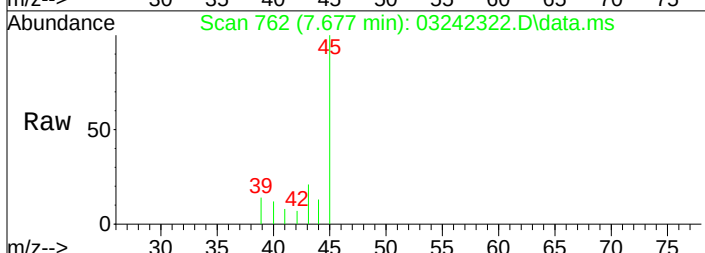
#14
 Trichlorofluoromethane
 Concen: 0.64 ng
 RT: 7.37 min Scan# 707
 Delta R.T. -0.022 min
 Lab File: 03242322.D
 Acq: 24 Mar 2023 18:33

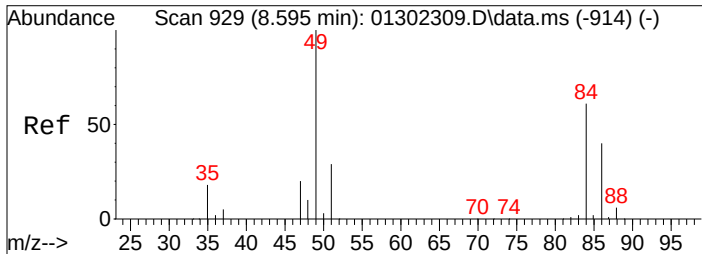
Tgt Ion: 101 Resp: 17913
 Ion Ratio Lower Upper
 101 100
 103 65.4 44.8 84.8



#15
 2-Propanol (Isopropanol)
 Concen: 0.14 ng
 RT: 7.68 min Scan# 762
 Delta R.T. -0.003 min
 Lab File: 03242322.D
 Acq: 24 Mar 2023 18:33

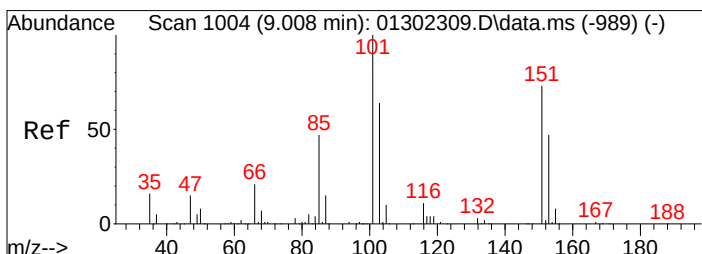
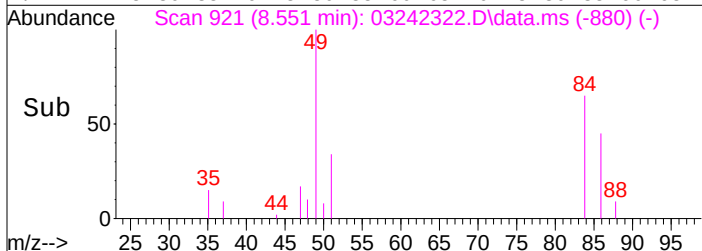
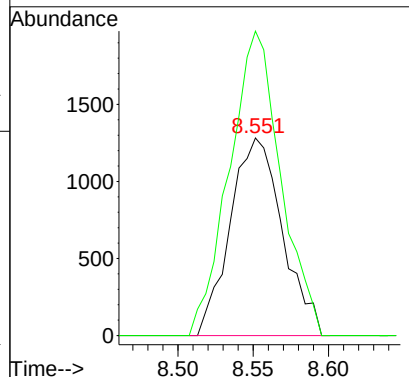
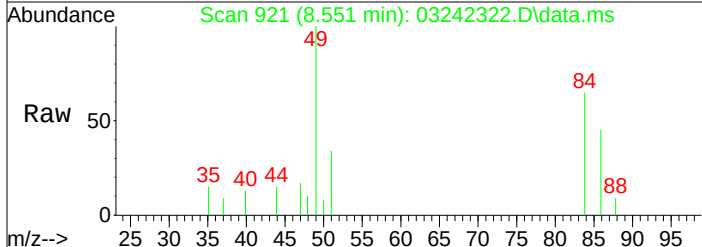
Tgt Ion: 45 Resp: 7020
 Ion Ratio Lower Upper
 45 100
 43 22.9 0.0 37.9





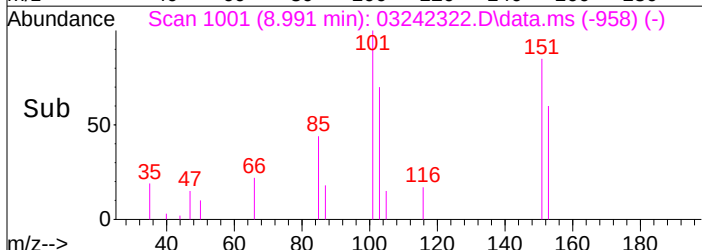
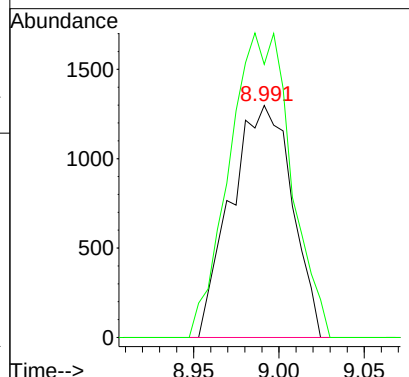
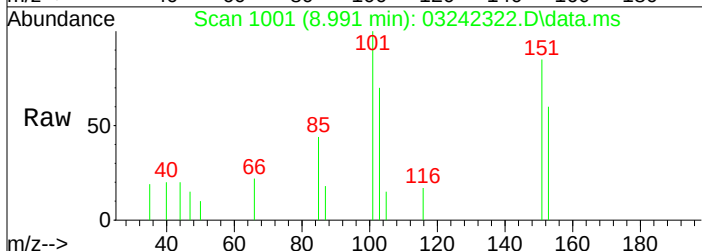
#19
Methylene Chloride
Concen: 0.19 ng
RT: 8.55 min Scan# 921
Delta R.T. -0.027 min
Lab File: 03242322.D
Acq: 24 Mar 2023 18:33

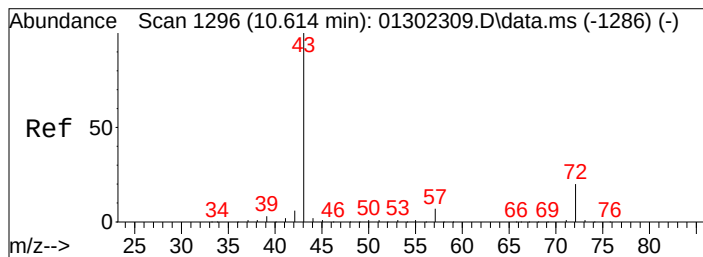
Tgt Ion:	84	Resp:	3098
Ion Ratio	Lower	Upper	
84	100		
49	151.4	135.0	185.0



#21
Trichlorotrifluoroethane
Concen: 0.23 ng
RT: 8.99 min Scan# 1001
Delta R.T. -0.011 min
Lab File: 03242322.D
Acq: 24 Mar 2023 18:33

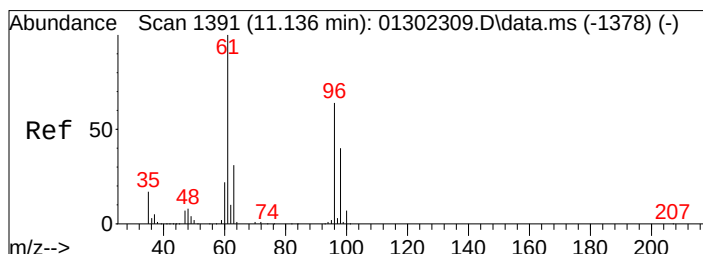
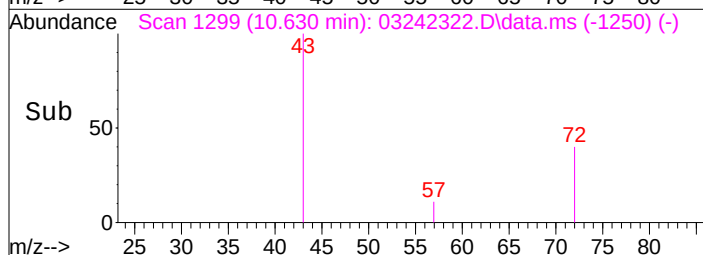
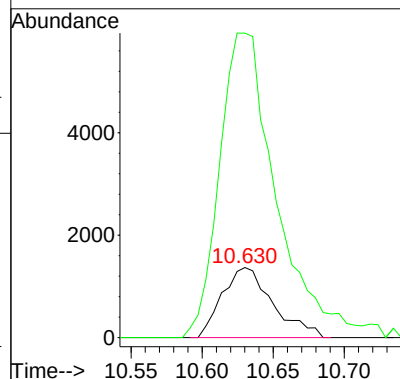
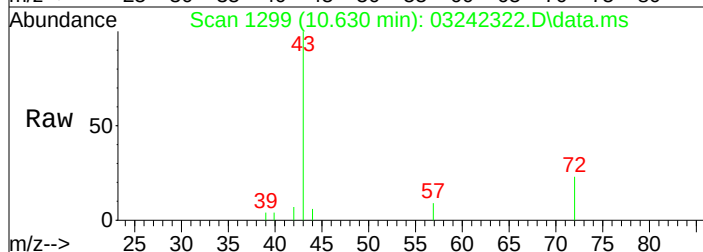
Tgt Ion:	151	Resp:	3230
Ion Ratio	Lower	Upper	
151	100		
101	132.7	101.5	141.5





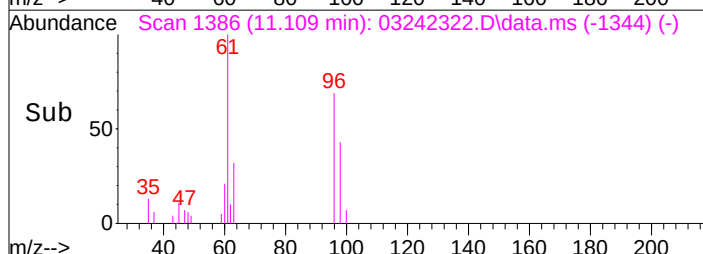
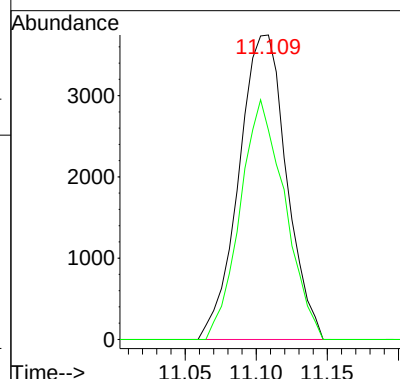
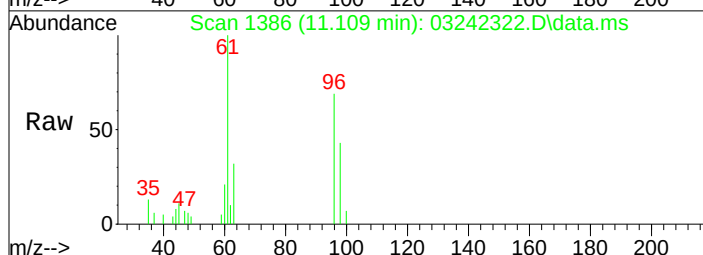
#27
2-Butanone (MEK)
Concen: 0.31 ng
RT: 10.63 min Scan# 1299
Delta R.T. 0.022 min
Lab File: 03242322.D
Acq: 24 Mar 2023 18:33

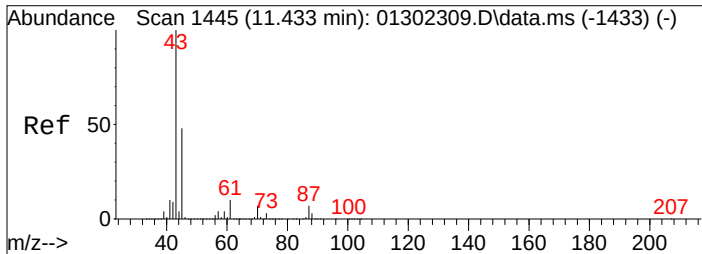
Tgt Ion: 72 Resp: 3375
Ion Ratio Lower Upper
72 100
43 494.2 449.4 489.4#



#28
cis-1,2-Dichloroethene
Concen: 0.35 ng
RT: 11.11 min Scan# 1386
Delta R.T. -0.016 min
Lab File: 03242322.D
Acq: 24 Mar 2023 18:33

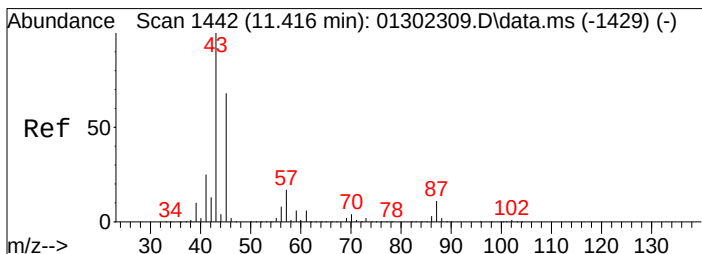
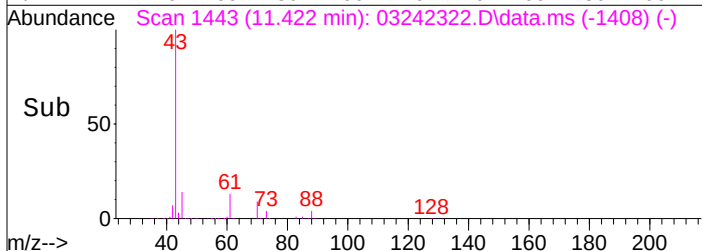
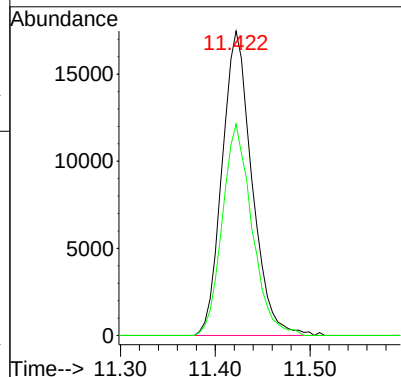
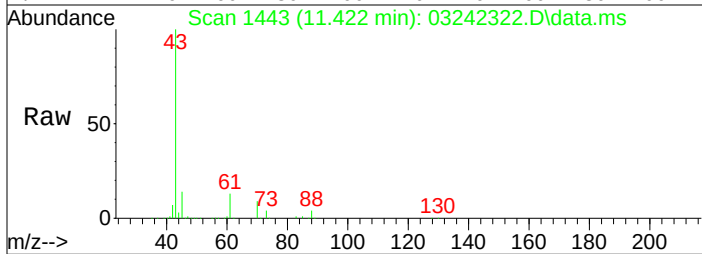
Tgt Ion: 61 Resp: 8746
Ion Ratio Lower Upper
61 100
96 73.8 49.9 89.9





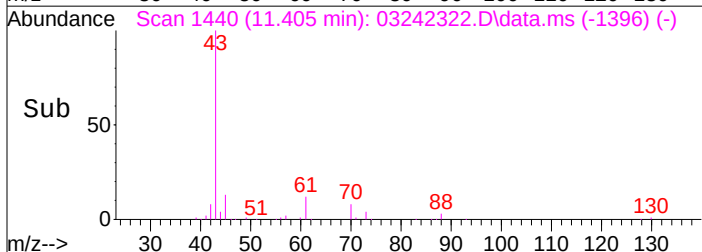
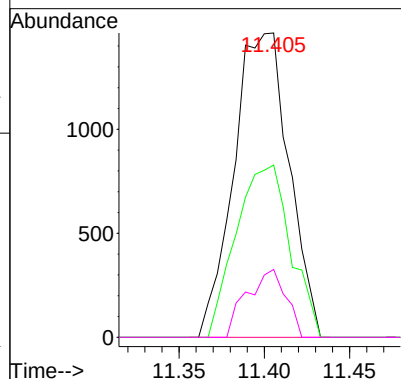
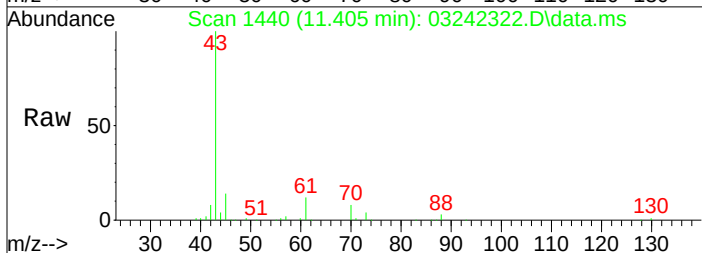
#30
Ethyl Acetate
Concen: 5.45 ng
RT: 11.42 min Scan# 1443
Delta R.T. -0.005 min
Lab File: 03242322.D
Acq: 24 Mar 2023 18:33

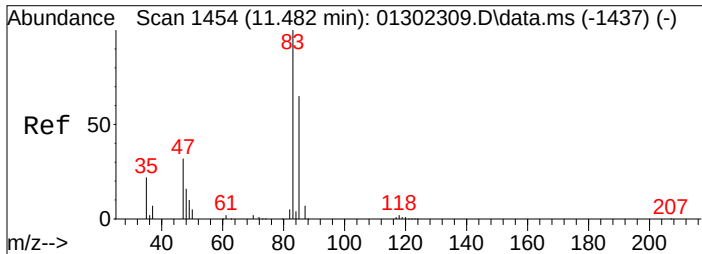
Tgt Ion: 61 Resp: 38286
Ion Ratio Lower Upper
61 100
70 69.0 52.8 92.8



#31
n-Hexane
Concen: 0.09 ng
RT: 11.41 min Scan# 1440
Delta R.T. -0.005 min
Lab File: 03242322.D
Acq: 24 Mar 2023 18:33

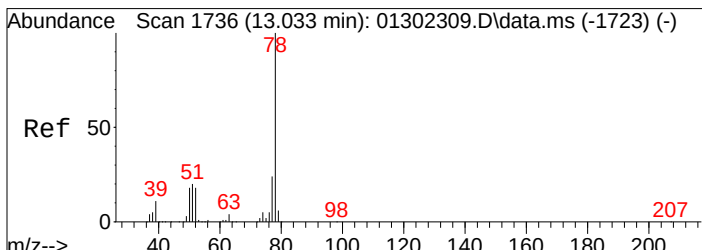
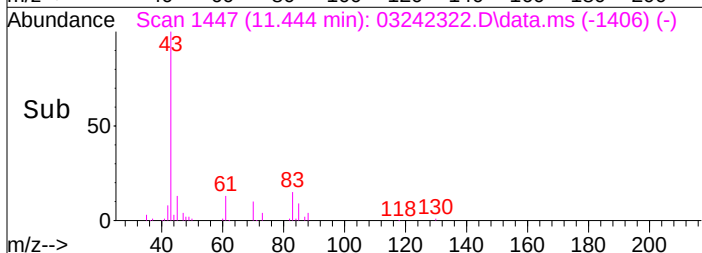
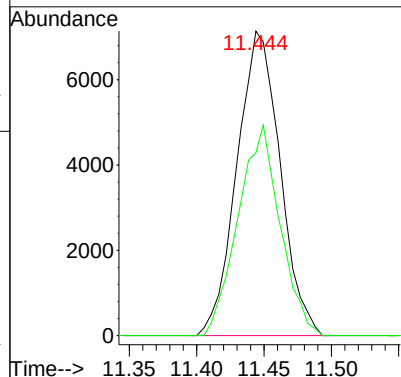
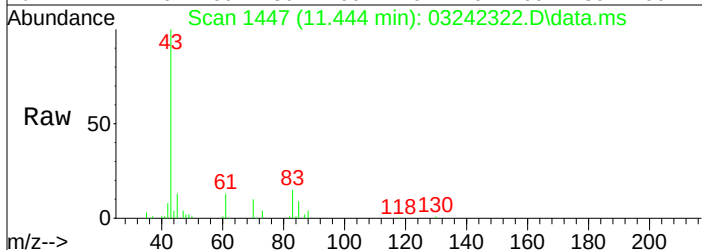
Tgt Ion: 57 Resp: 3290
Ion Ratio Lower Upper
57 100
56 55.7 39.9 59.9
86 15.8 12.3 18.5





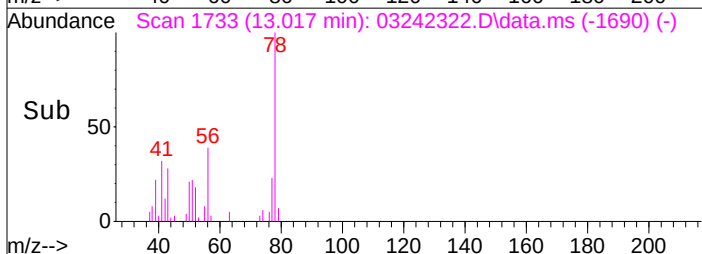
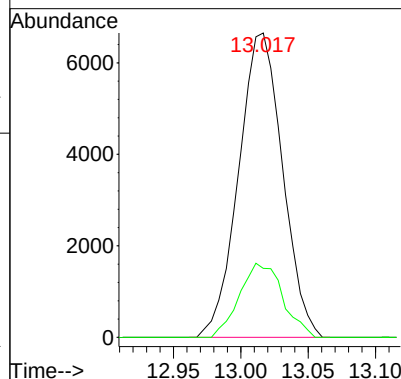
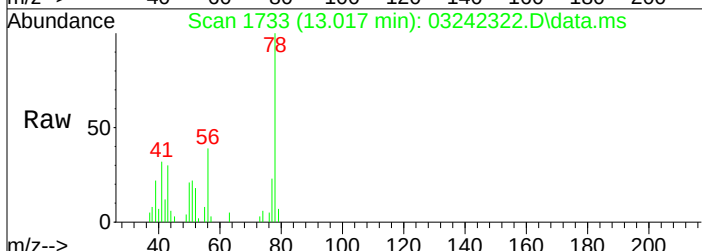
#32
Chloroform
Concen: 0.59 ng
RT: 11.44 min Scan# 1447
Delta R.T. -0.022 min
Lab File: 03242322.D
Acq: 24 Mar 2023 18:33

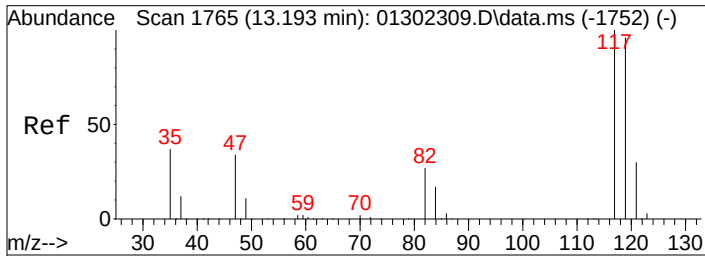
Tgt Ion: 83 Resp: 15912
Ion Ratio Lower Upper
83 100
85 67.1 45.5 85.5



#41
Benzene
Concen: 0.23 ng
RT: 13.02 min Scan# 1733
Delta R.T. -0.011 min
Lab File: 03242322.D
Acq: 24 Mar 2023 18:33

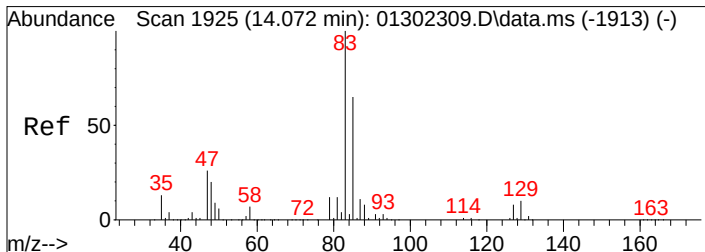
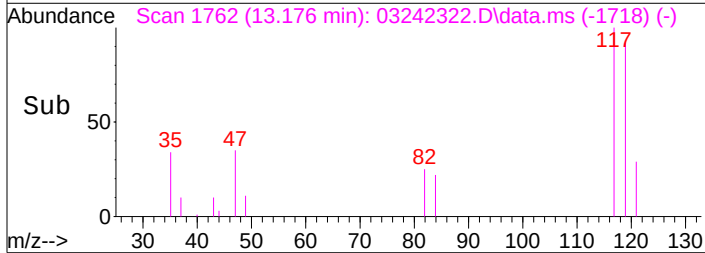
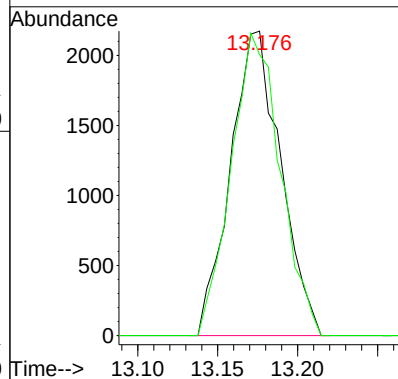
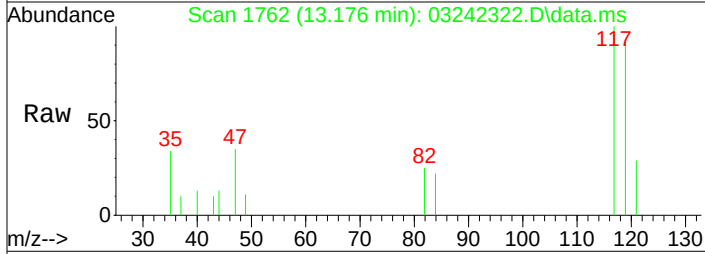
Tgt Ion: 78 Resp: 15077
Ion Ratio Lower Upper
78 100
77 23.9 3.3 43.3





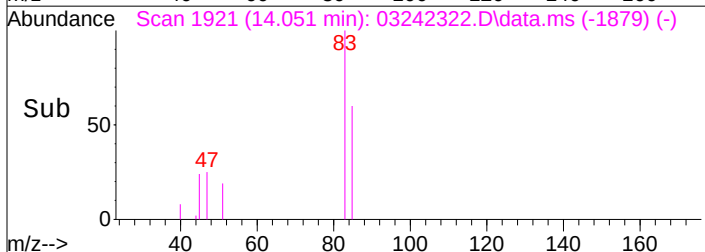
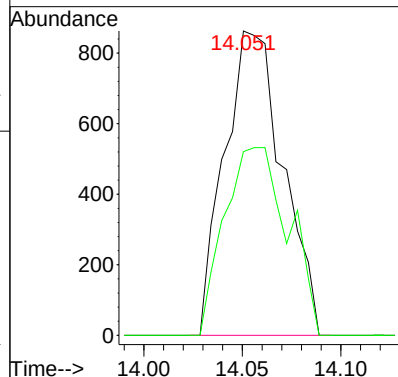
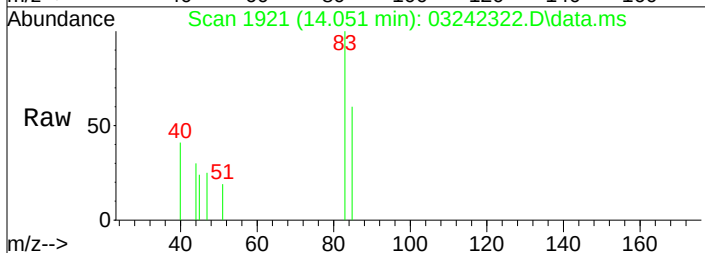
#42
Carbon Tetrachloride
Concen: 0.22 ng
RT: 13.18 min Scan# 1762
Delta R.T. -0.011 min
Lab File: 03242322.D
Acq: 24 Mar 2023 18:33

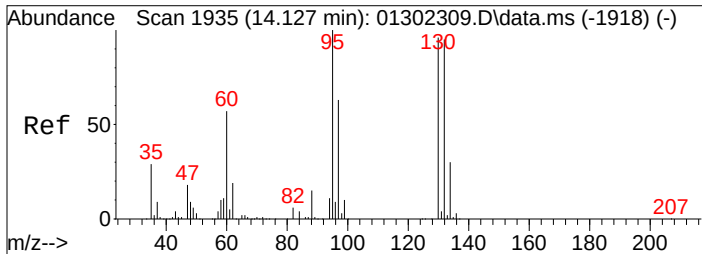
Tgt Ion: 117 Resp: 4726
Ion Ratio Lower Upper
117 100
119 97.5 76.2 116.2



#46
Bromodichloromethane
Concen: 0.08 ng
RT: 14.05 min Scan# 1921
Delta R.T. -0.016 min
Lab File: 03242322.D
Acq: 24 Mar 2023 18:33

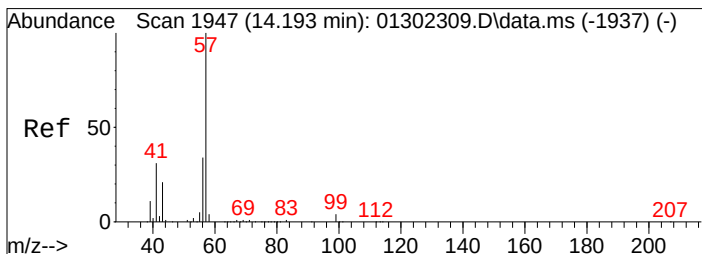
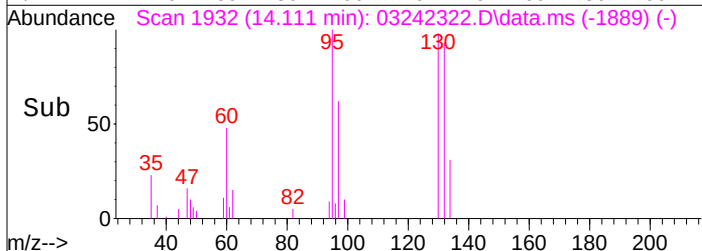
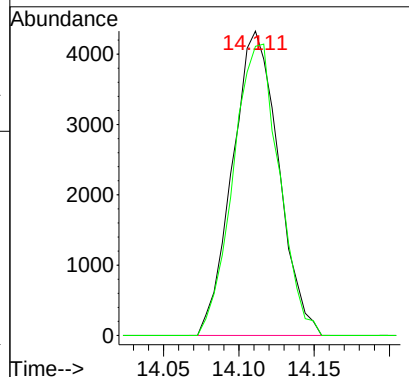
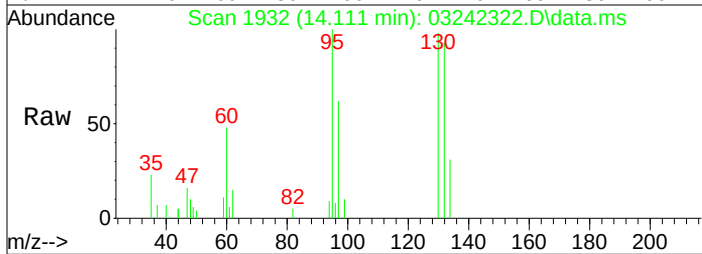
Tgt Ion: 83 Resp: 1780
Ion Ratio Lower Upper
83 100
85 67.5 44.3 84.3





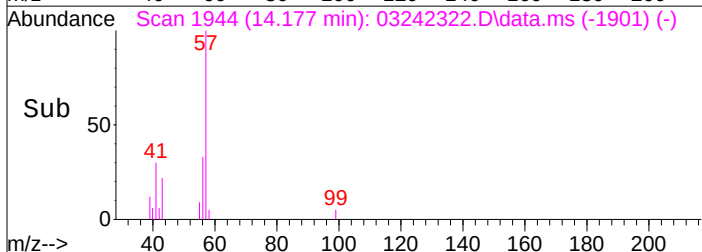
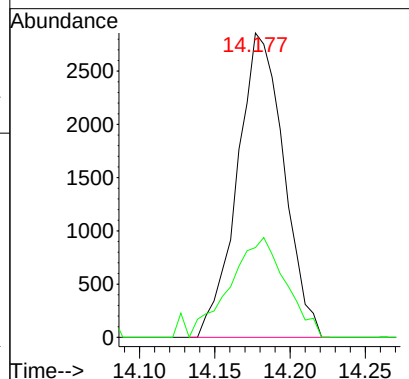
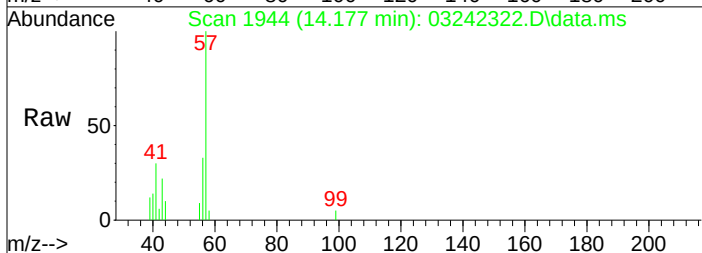
#47
 Trichloroethene
 Concen: 0.52 ng
 RT: 14.11 min Scan# 1932
 Delta R.T. -0.011 min
 Lab File: 03242322.D
 Acq: 24 Mar 2023 18:33

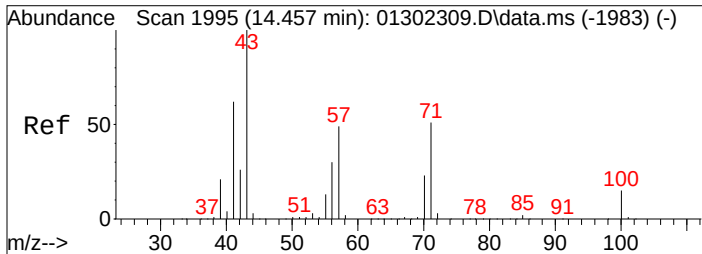
Tgt Ion:130	Resp:	9231
Ion Ratio	Lower	Upper
130	100	
132	95.4	78.7 118.7



#49
 2,2,4-Trimethylpentane (Isooctane)
 Concen: 0.07 ng
 RT: 14.18 min Scan# 1944
 Delta R.T. -0.011 min
 Lab File: 03242322.D
 Acq: 24 Mar 2023 18:33

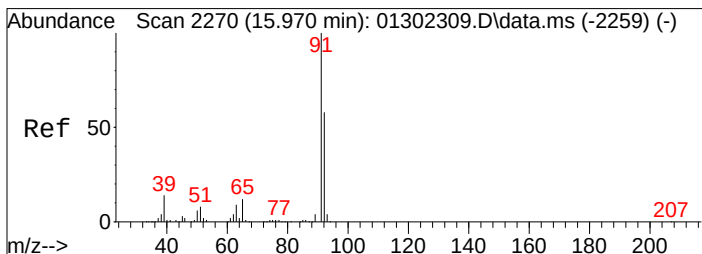
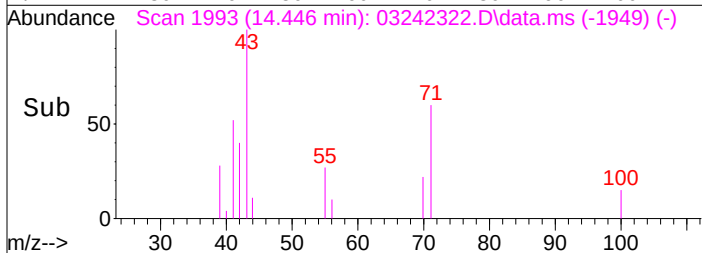
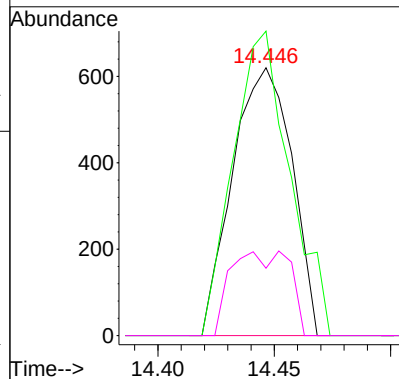
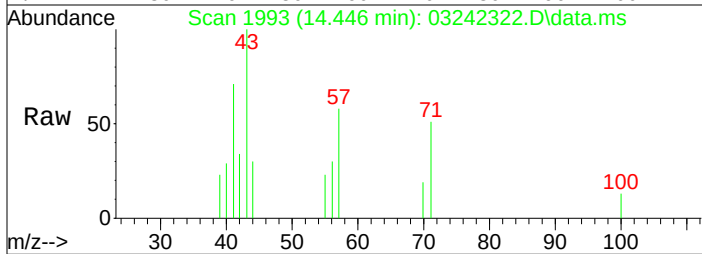
Tgt Ion: 57	Resp:	6139
Ion Ratio	Lower	Upper
57	100	
41	39.2	5.8 45.8





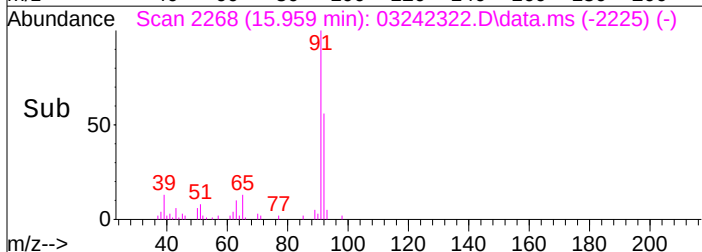
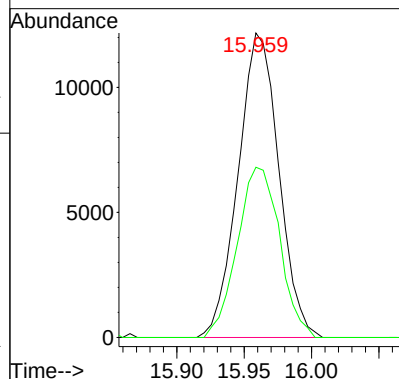
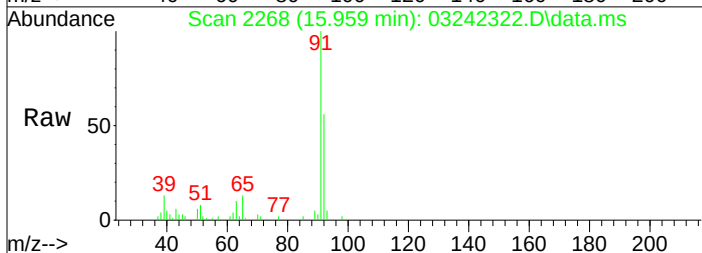
#51
n-Heptane
Concen: 0.06 ng
RT: 14.45 min Scan# 1993
Delta R.T. -0.005 min
Lab File: 03242322.D
Acq: 24 Mar 2023 18:33

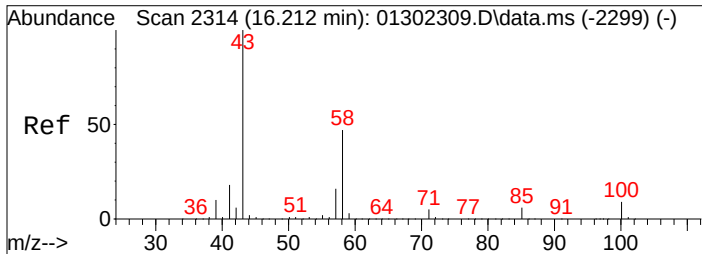
Tgt Ion:	71	Resp:	1099
Ion Ratio	Lower	Upper	
71	100		
57	108.4	81.4	121.4
100	31.3	11.8	51.8



#58
Toluene
Concen: 0.33 ng
RT: 15.96 min Scan# 2268
Delta R.T. -0.011 min
Lab File: 03242322.D
Acq: 24 Mar 2023 18:33

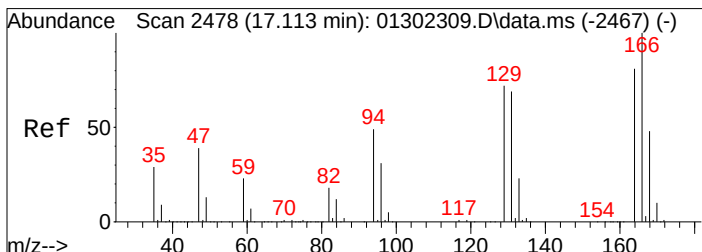
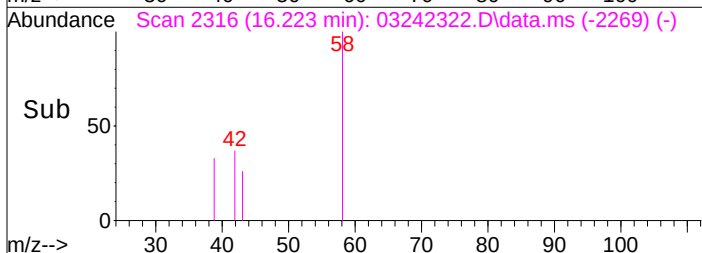
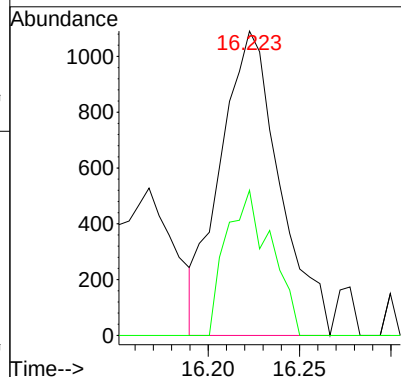
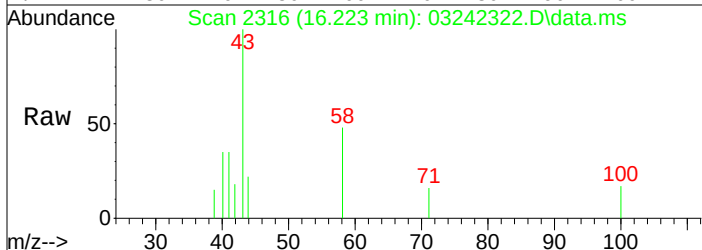
Tgt Ion:	91	Resp:	25536
Ion Ratio	Lower	Upper	
91	100		
92	58.2	39.8	79.8





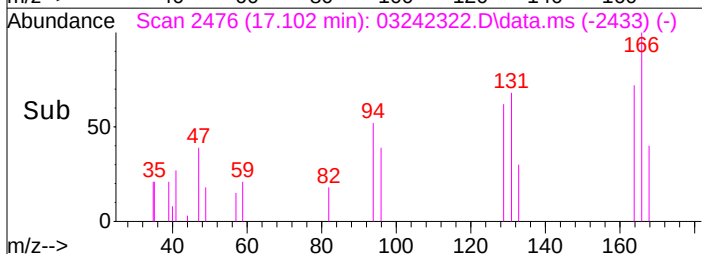
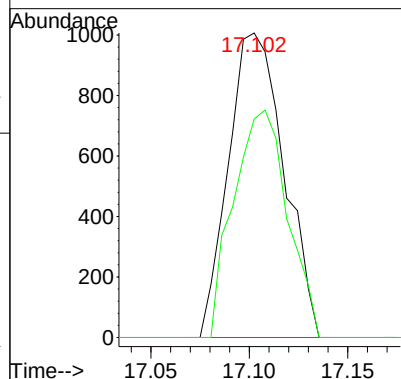
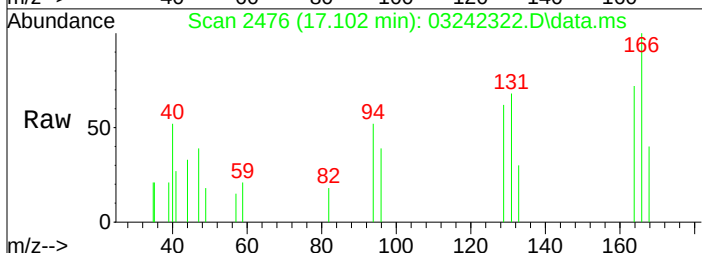
#59
2-Hexanone
Concen: 0.06 ng
RT: 16.22 min Scan# 2316
Delta R.T. 0.011 min
Lab File: 03242322.D
Acq: 24 Mar 2023 18:33

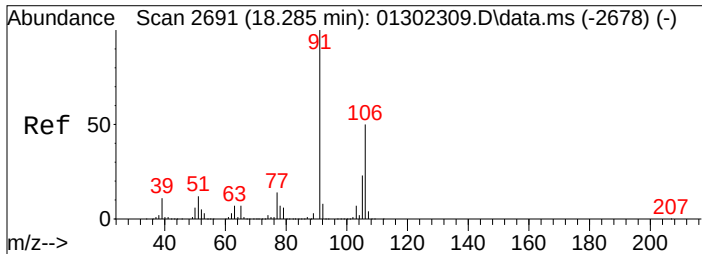
Tgt Ion: 43 Resp: 2465
Ion Ratio Lower Upper
43 100
58 36.2 32.3 72.3



#64
Tetrachloroethene
Concen: 0.10 ng
RT: 17.10 min Scan# 2476
Delta R.T. -0.011 min
Lab File: 03242322.D
Acq: 24 Mar 2023 18:33

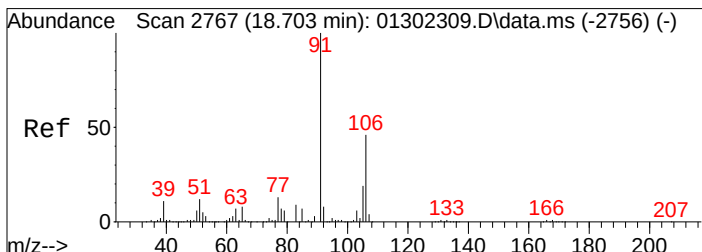
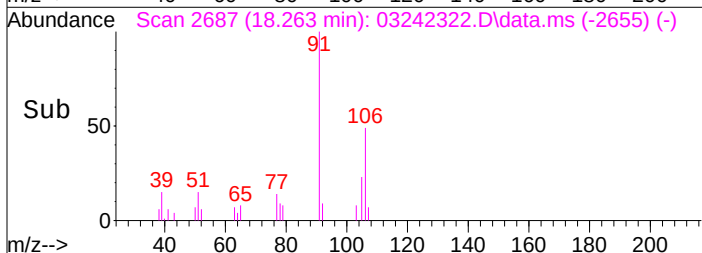
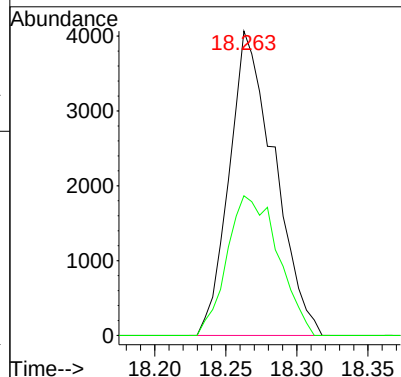
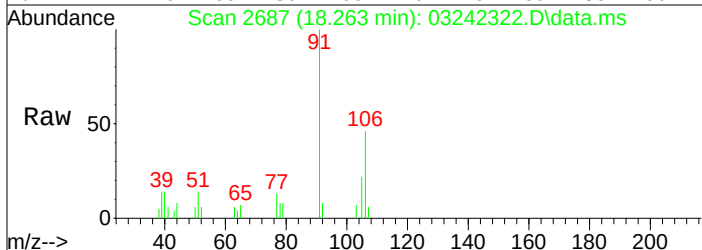
Tgt Ion: 166 Resp: 1977
Ion Ratio Lower Upper
166 100
164 72.6 58.7 98.7





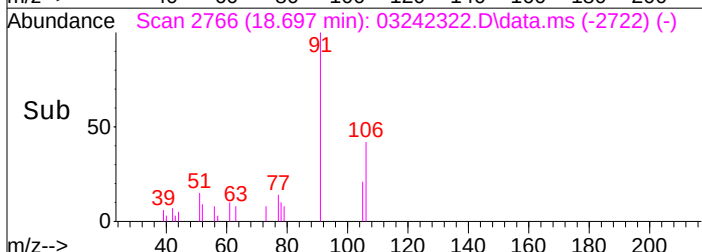
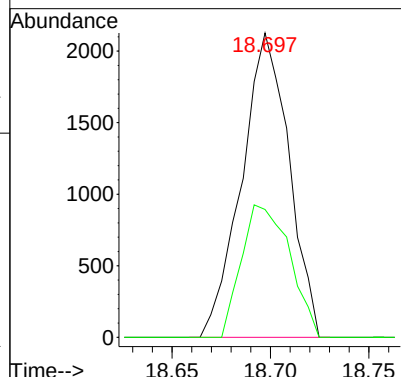
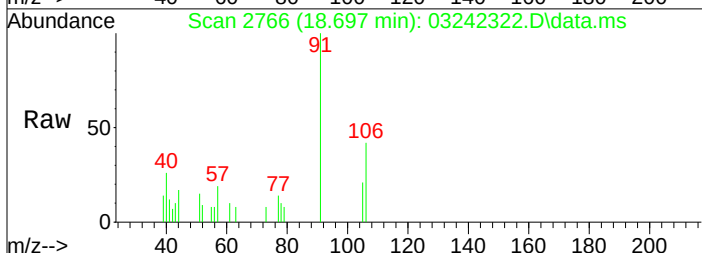
#67
 m- & p-Xylenes
 Concen: 0.13 ng
 RT: 18.26 min Scan# 2687
 Delta R.T. -0.022 min
 Lab File: 03242322.D
 Acq: 24 Mar 2023 18:33

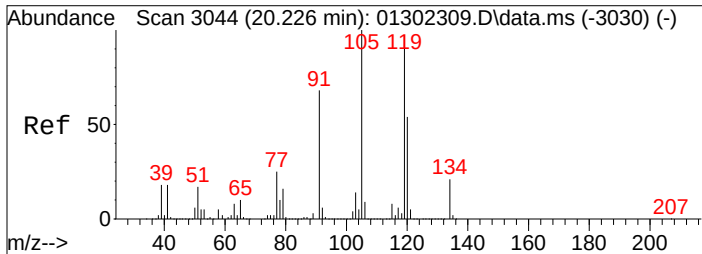
Tgt Ion:	91	Resp:	8959
Ion Ratio	Lower	Upper	
91	100		
106	52.1	29.2	69.2



#70
 o-Xylene
 Concen: 0.05 ng
 RT: 18.70 min Scan# 2766
 Delta R.T. -0.005 min
 Lab File: 03242322.D
 Acq: 24 Mar 2023 18:33

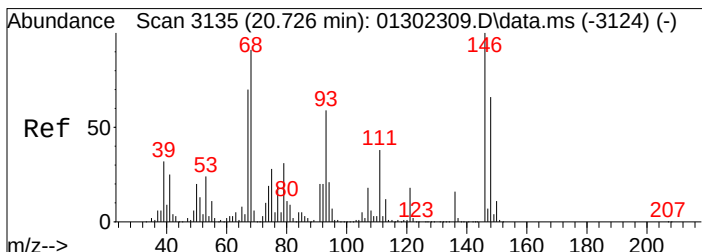
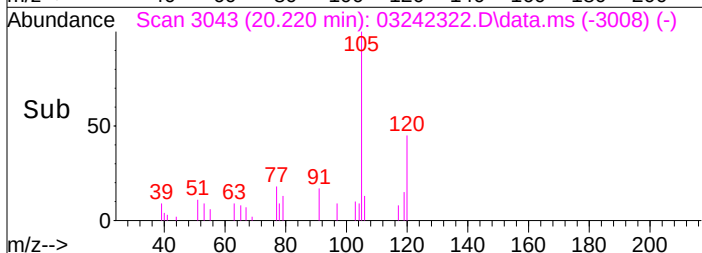
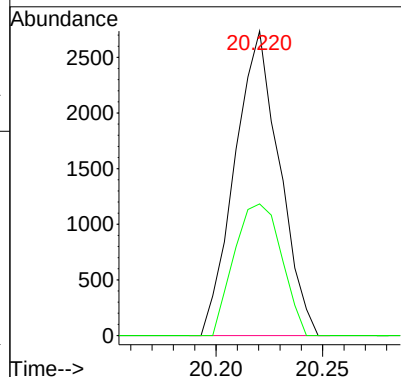
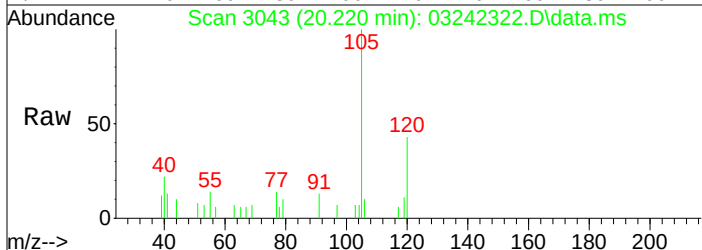
Tgt Ion:	91	Resp:	3555
Ion Ratio	Lower	Upper	
91	100		
106	44.3	27.3	67.3





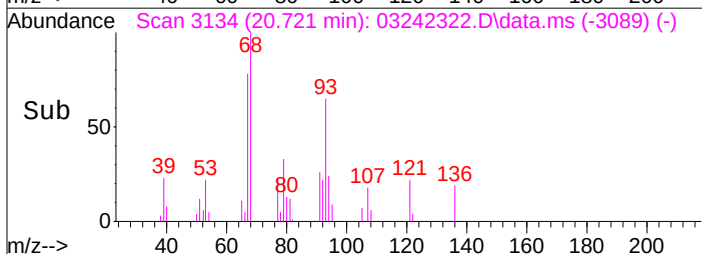
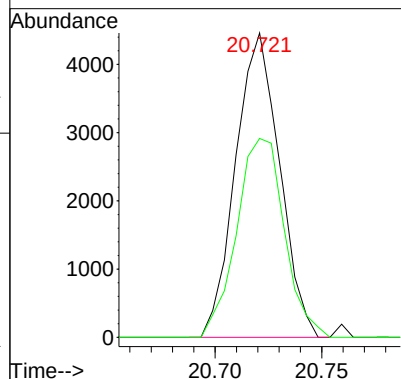
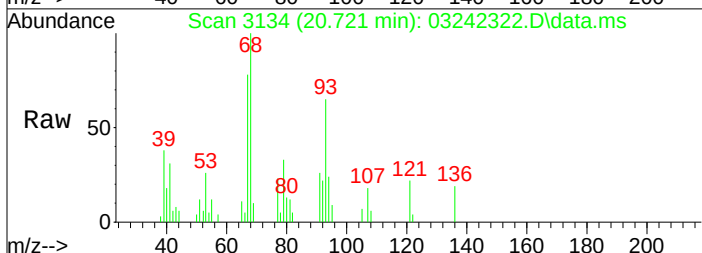
#82
 1,2,4-Trimethylbenzene
 Concen: 0.06 ng
 RT: 20.22 min Scan# 3043
 Delta R.T. -0.005 min
 Lab File: 03242322.D
 Acq: 24 Mar 2023 18:33

Tgt Ion: 105 Resp: 3992
 Ion Ratio Lower Upper
 105 100
 120 45.7 37.2 77.2



#91
 d-Limonene
 Concen: 0.32 ng
 RT: 20.72 min Scan# 3134
 Delta R.T. -0.005 min
 Lab File: 03242322.D
 Acq: 24 Mar 2023 18:33

Tgt Ion: 68 Resp: 6392
 Ion Ratio Lower Upper
 68 100
 93 71.0 49.6 89.6



Data File : I:\MS16\DATA\2023_03\24\03242322.D
 Acq On : 24 Mar 2023 18:33
 Sample : P2301250-045 (1000mL)
 Misc : S35-01312301

Vial: 7
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 26 20:49:56 2023

3/26/23

Quant Method : I:\MS16\METHODS\C16122022.M

Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD

QLast Update : Wed Dec 21 05:02:49 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.28	130	201899	12.500	ng	-0.02
16) 1,4-Difluorobenzene (C_2)	13.41	114	921602	12.500	ng	-0.02
19) Chlorobenzene-d5 (C_3)	17.72	54	204767	12.500	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.86	85	469	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.95	83	3583	0.224	ng	88
4) 1,1-Difluoroethane	4.06	65	503	N.D.		
5) Chlorodifluoromethane ...	4.17	67	4065	0.814	ng	84
6) 1-Chloro-1,1-Difluoroe...	4.64	65	1750	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	8.60	43	3116	N.D.		
12) 2-Methylpentane	10.35	71	1442	N.D.		
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	13.18	84	820	N.D.		
17) 2,3-Dimethylpentane	13.59	56	892	N.D.		
18) Dibromomethane	13.83	174	167	N.D.		
20) Methyl Cyclohexane	15.10	55	866	N.D.		
21) 1,3-Dichloropropane	0.00	76	0	N.D.	d	
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	0.00	91	0	N.D.		
24) 1,2,3-Trichloropropane	0.00	75	0	N.D.		
25) Bromobenzene	19.21	77	227	N.D.		
26) 2-Chlorotoluene	19.67	91	1413	N.D.		
27) 4-Chlorotoluene	19.75	91	384	N.D.		
28) Indane	20.78	117	289	N.D.		
29) Indene	0.00	115	0	N.D.		
30) 1,2,4,5-Tetramethylben...	21.61	119	145	N.D.		
31) 1,2,3,4-Tetramethylben...	21.65	119	299	N.D.		
32) 1,2,3,5-Tetramethylben...	21.99	119	59	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\24\03242322.D

Vial: 7

Acq On : 24 Mar 2023 18:33

Operator: WA

Sample : P2301250-045 (1000mL)

Inst : GCMS-16

Misc : S35-01312301

Quant Time: Mar 26 20:49:56 2023

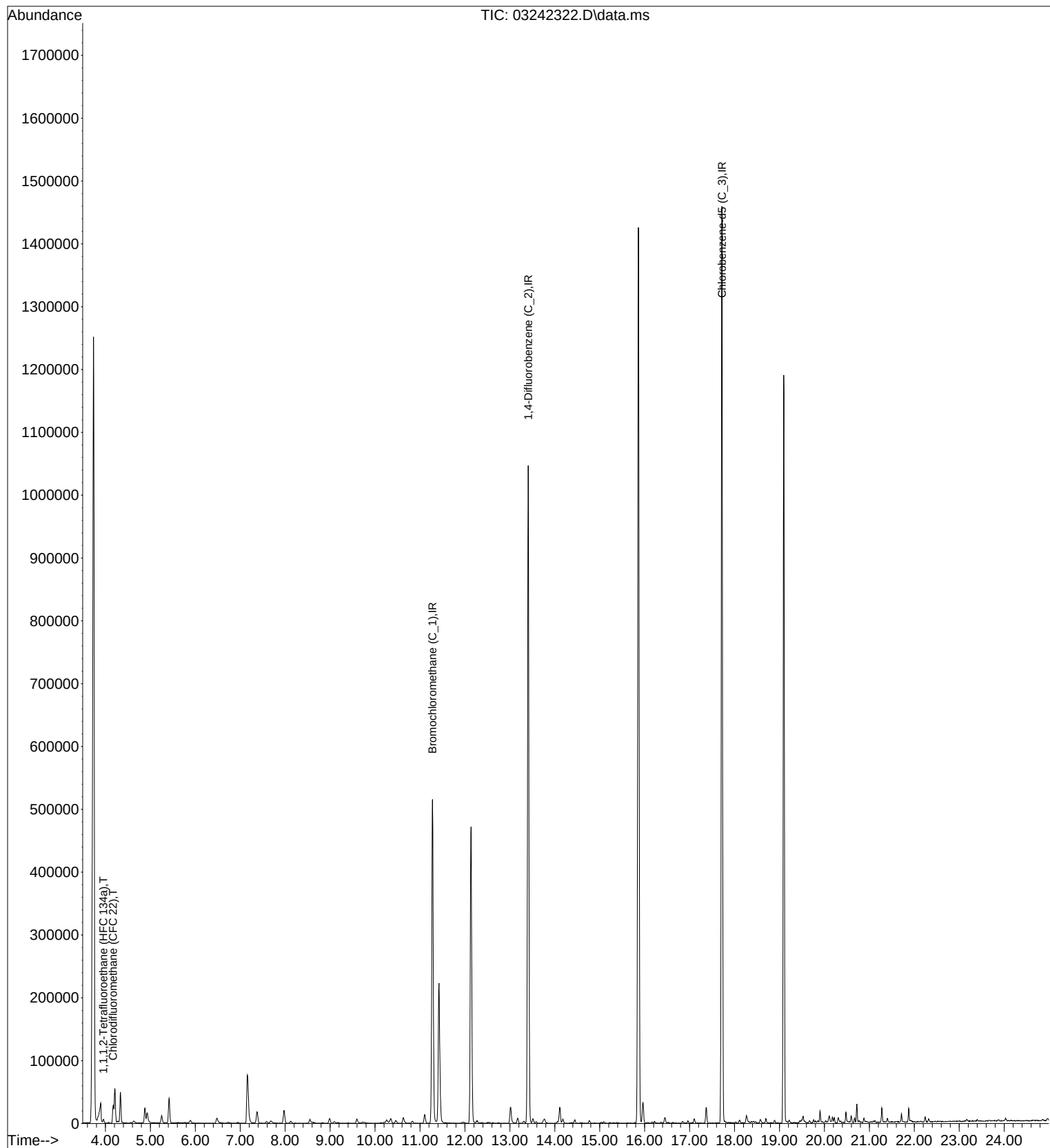
Quant Method : I:\MS16\METHODS\C16122022.M

Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD

QLast Update : Wed Dec 21 05:02:49 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG21-2

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-046

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01152

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.82 Final Pressure (psig): 4.44

Container Dilution Factor: 1.49

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.9	0.79	0.13	0.59	0.16	0.026	
74-87-3	Chloromethane	0.25	0.31	0.13	0.12	0.15	0.062	J
75-01-4	Vinyl Chloride	ND	0.16	0.085	ND	0.064	0.033	
74-83-9	Bromomethane	ND	0.31	0.11	ND	0.081	0.028	
75-00-3	Chloroethane	ND	0.31	0.098	ND	0.12	0.037	
67-64-1	Acetone	3.3	7.9	1.8	1.4	3.3	0.75	J
75-69-4	Trichlorofluoromethane	1.4	0.77	0.12	0.25	0.14	0.021	
75-35-4	1,1-Dichloroethene	ND	0.16	0.11	ND	0.041	0.028	
75-09-2	Methylene Chloride	0.37	0.79	0.22	0.11	0.23	0.064	J
76-13-1	Trichlorotrifluoroethane	0.50	0.80	0.11	0.065	0.11	0.015	J
75-15-0	Carbon Disulfide	1.3	1.6	0.24	0.42	0.51	0.077	J
156-60-5	trans-1,2-Dichloroethene	ND	0.16	0.11	ND	0.041	0.028	
75-34-3	1,1-Dichloroethane	ND	0.16	0.12	ND	0.041	0.029	
1634-04-4	Methyl tert-Butyl Ether	ND	0.80	0.094	ND	0.22	0.026	
78-93-3	2-Butanone (MEK)	0.60	1.5	0.16	0.20	0.53	0.056	J
156-59-2	cis-1,2-Dichloroethene	0.78	0.16	0.11	0.20	0.041	0.028	
67-66-3	Chloroform	1.1	0.16	0.11	0.23	0.034	0.022	
107-06-2	1,2-Dichloroethane	ND	0.16	0.088	ND	0.041	0.022	
71-55-6	1,1,1-Trichloroethane	ND	0.16	0.098	ND	0.030	0.018	
71-43-2	Benzene	0.45	0.16	0.11	0.14	0.051	0.036	
56-23-5	Carbon Tetrachloride	0.47	0.16	0.11	0.075	0.026	0.018	
110-82-7	Cyclohexane	ND	1.6	0.22	ND	0.45	0.065	
78-87-5	1,2-Dichloropropane	ND	0.16	0.098	ND	0.035	0.021	
75-27-4	Bromodichloromethane	0.16	0.16	0.11	0.024	0.024	0.017	J
79-01-6	Trichloroethene	1.2	0.16	0.11	0.23	0.031	0.020	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG21-2

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-046

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01152

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.82 Final Pressure (psig): 4.44

Container Dilution Factor: 1.49

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.80	0.12	ND	0.18	0.027	
108-10-1	4-Methyl-2-pentanone	ND	1.6	0.11	ND	0.40	0.027	
10061-02-6	trans-1,3-Dichloropropene	ND	0.76	0.16	ND	0.17	0.036	
79-00-5	1,1,2-Trichloroethane	ND	0.16	0.080	ND	0.030	0.015	
108-88-3	Toluene	0.60	0.79	0.097	0.16	0.21	0.026	J
591-78-6	2-Hexanone	0.19	1.6	0.098	0.046	0.40	0.024	J
124-48-1	Dibromochloromethane	ND	0.16	0.10	ND	0.019	0.012	
106-93-4	1,2-Dibromoethane	ND	0.16	0.092	ND	0.021	0.012	
127-18-4	Tetrachloroethene	0.21	0.16	0.10	0.031	0.024	0.015	
108-90-7	Chlorobenzene	ND	0.79	0.11	ND	0.17	0.023	
100-41-4	Ethylbenzene	ND	0.79	0.11	ND	0.18	0.026	
179601-23-1	m,p-Xylenes	0.24	1.6	0.21	0.055	0.38	0.048	J
75-25-2	Bromoform	ND	0.80	0.16	ND	0.078	0.016	
100-42-5	Styrene	ND	0.79	0.13	ND	0.19	0.030	
95-47-6	o-Xylene	ND	0.79	0.11	ND	0.18	0.026	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	0.11	ND	0.024	0.016	
98-82-8	Cumene	ND	0.80	0.11	ND	0.16	0.023	
541-73-1	1,3-Dichlorobenzene	ND	0.79	0.12	ND	0.13	0.020	
106-46-7	1,4-Dichlorobenzene	ND	0.79	0.12	ND	0.13	0.020	
95-50-1	1,2-Dichlorobenzene	ND	0.80	0.12	ND	0.13	0.020	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.6	0.15	ND	0.17	0.015	
120-82-1	1,2,4-Trichlorobenzene	ND	1.6	0.19	ND	0.22	0.026	
79-20-9	Methyl Acetate	ND	0.75	0.36	ND	0.25	0.12	X
108-87-2	Methylcyclohexane	ND	0.75	0.39	ND	0.19	0.097	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS16\DATA\2023_03\24\03242323.D
 Acq On : 24 Mar 2023 19:08
 Sample : P2301250-046 (1000mL)
 Misc : S35-01312301

Vial: 8
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 26 20:44:32 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

3/26/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	199463	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	919256	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.72	54	206545	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	361491	13.628	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	109.04%
57) Toluene-d8 (SS2)	15.86	98	1064346	11.770	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.16%
73) Bromofluorobenzene (SS3)	19.10	174	322699	11.442	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	91.52%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	4.34	85	58324	1.956	ng	99
4) Chloromethane	4.64	50	4645	0.167	ng	94
5) 1,2-Dichloro-1,1,2,2-t...	4.90	135	1304	0.078	ng	80
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.32	54	369	N.D.		
8) Bromomethane	5.75	94	181	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.47	45	25777	1.343	ng	91
11) Acetonitrile	6.75	41	2567	0.053	ng	75
12) Acrolein	6.95	56	1884	0.139	ng	96
13) Acetone	7.15	58	32671	2.225	ng	# 76
14) Trichlorofluoromethane	7.37	101	25762	0.937	ng	98
15) 2-Propanol (Isopropanol)	7.69	45	8848	0.173	ng	89
16) Acrylonitrile	7.91	53	52	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.		
19) Methylene Chloride	8.57	84	4049	0.250	ng	94
20) 3-Chloro-1-propene (Al...	8.66	41	447	N.D.		
21) Trichlorotrifluoroethane	9.00	151	4592	0.335	ng	91
22) Carbon Disulfide	8.83	76	51330	0.887	ng	99
23) trans-1,2-Dichloroethene	9.85	61	221	N.D.		
24) 1,1-Dichloroethane	10.09	63	423	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	10.32	86	1309	0.399	ng	# 93
27) 2-Butanone (MEK)	10.62	72	4277	0.402	ng	96
28) cis-1,2-Dichloroethene	11.10	61	12814	0.524	ng	97
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	11.43	61	28677	4.120	ng	96
31) n-Hexane	11.41	57	4283	0.123	ng	93
32) Chloroform	11.45	83	20173	0.758	ng	99
34) Tetrahydrofuran (THF)	11.94	72	218	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	12.26	62	1079	N.D.		
38) 1,1,1-Trichloroethane	12.54	97	938	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.02	78	19743	0.305	ng	96
42) Carbon Tetrachloride	13.18	117	6675	0.317	ng	98
43) Cyclohexane	13.31	84	803	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	14.06	83	2305	0.108	ng	94
47) Trichloroethene	14.11	130	14346	0.815	ng	97
48) 1,4-Dioxane	14.13	88	365	N.D.		
49) 2,2,4-Trimethylpentane...	14.18	57	7004	0.080	ng	75
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS16\DATA\2023_03\24\03242323.D
 Acq On : 24 Mar 2023 19:08
 Sample : P2301250-046 (1000mL)
 Misc : S35-01312301

Vial: 8
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 26 20:44:32 2023
 Quant Method : I:\MS16\METHODS\R16122022.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Wed Dec 21 03:06:38 2022
 Response via : Initial Calibration
 DataAcq Meth:T015B.M

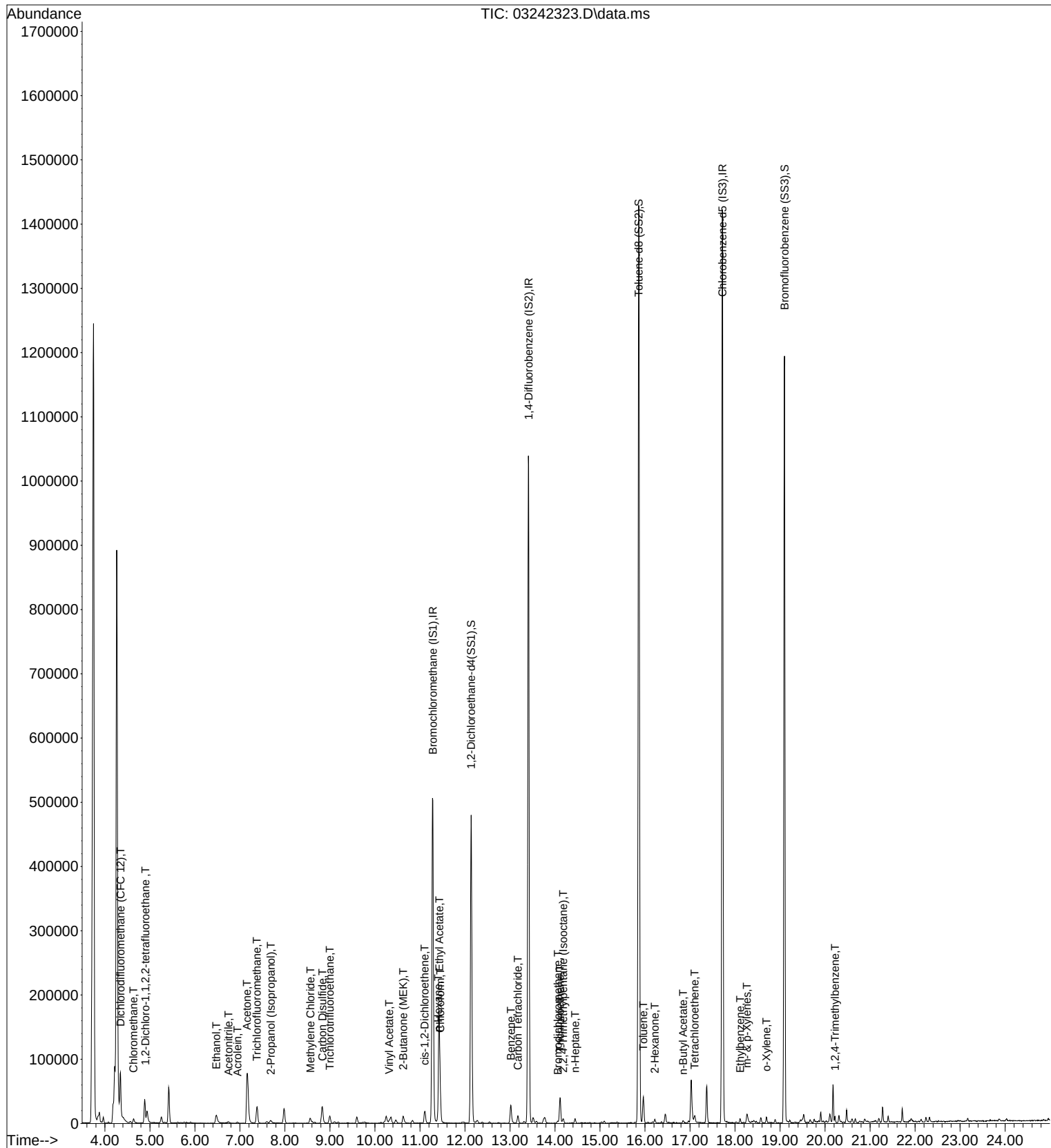
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.45	71	1537	0.081	ng	91
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	15.04	58	491	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.96	91	32161	0.406	ng	98
59) 2-Hexanone	16.22	43	5250	0.126	ng	84
60) Dibromochloromethane	16.38	129	401	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.84	43	3648	0.076	ng	84
63) n-Octane	16.96	57	509	N.D.		
64) Tetrachloroethene	17.10	166	2810	0.139	ng	98
65) Chlorobenzene	17.76	112	292	N.D.		
66) Ethylbenzene	18.11	91	5222	0.058	ng	98
67) m- & p-Xylenes	18.26	91	11320	0.160	ng	98
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.59	104	201	N.D.		
70) o-Xylene	18.70	91	4476	0.064	ng	96
71) n-Nonane	18.89	43	2316	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	19.22	105	1259	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	19.66	91	1487	N.D.		
77) 3-Ethyltoluene	20.22	105	4745	No Calib	#	
78) 4-Ethyltoluene	19.79	105	1399	N.D.		
79) 1,3,5-Trimethylbenzene	19.86	105	1363	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.22	105	4745	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.22	105	4745	0.067	ng	85
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
86) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
87) sec-Butylbenzene	20.46	105	243	N.D.		
88) 4-Isopropyltoluene (p-...	20.59	119	1446	N.D.		
89) 1,2,3-Trimethylbenzene	20.22	105	4745	No Calib	#	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	0.00	68	0	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	21.28	58	197	No Calib	#	
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	22.33	128	1341	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	18.20	55	353	No Calib	#	
99) tert-Butylbenzene	20.22	119	800	N.D.		
100) n-Butylbenzene	20.96	91	806	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\24\03242323.D
Acq On : 24 Mar 2023 19:08
Sample : P2301250-046 (1000mL)
Misc : S35-01312301

Vial: 8
Operator: WA
Inst : GCMS-16

Quant Time: Mar 26 20:44:32 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



Data File : I:\MS16\DATA\2023_03\24\03242323.D
 Acq On : 24 Mar 2023 19:08
 Sample : P2301250-046 (1000mL)
 Misc : S35-01312301

Vial: 8
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 26 20:44:32 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	199463	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	919256	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.72	54	206545	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	361491	13.628	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	109.04%	
57) Toluene-d8 (SS2)	15.86	98	1064346	11.770	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	94.16%	
73) Bromofluorobenzene (SS3)	19.10	174	322699	11.442	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	91.52%	

Target Compounds

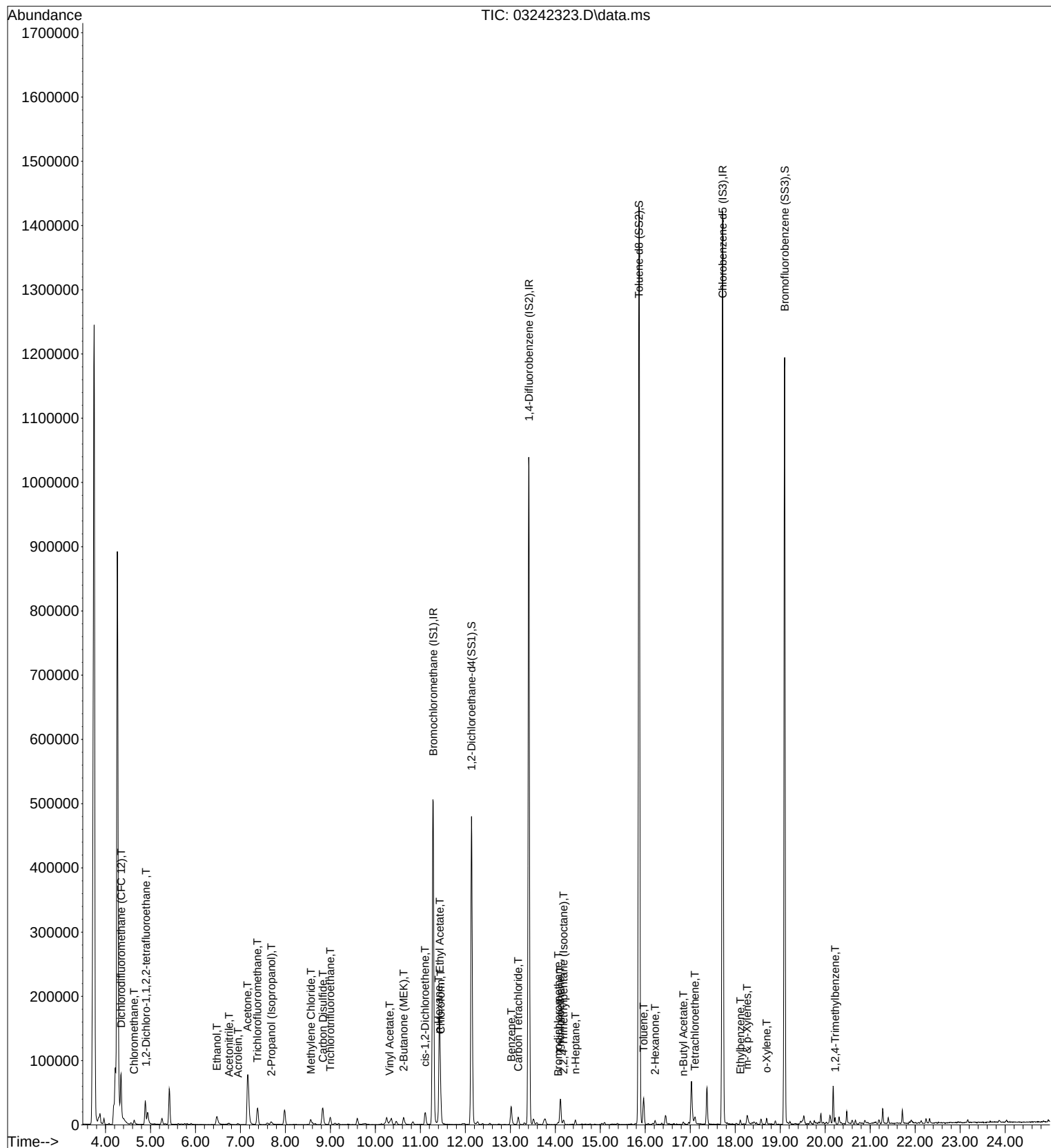
						Qvalue
3) Dichlorodifluoromethan...	4.34	85	58324	1.956	ng	99
4) Chloromethane	4.64	50	4645	0.167	ng	94
5) 1,2-Dichloro-1,1,2,2-t...	4.90	135	1304	0.078	ng	80
10) Ethanol	6.47	45	25777	1.343	ng	91
11) Acetonitrile	6.75	41	2567	0.053	ng	75
12) Acrolein	6.95	56	1884	0.139	ng	96
13) Acetone	7.15	58	32671	2.225	ng	# 76
14) Trichlorofluoromethane	7.37	101	25762	0.937	ng	98
15) 2-Propanol (Isopropanol)	7.69	45	8848	0.173	ng	89
19) Methylene Chloride	8.57	84	4049	0.250	ng	94
21) Trichlorotrifluoroethane	9.00	151	4592	0.335	ng	91
22) Carbon Disulfide	8.83	76	51330	0.887	ng	99
26) Vinyl Acetate	10.32	86	1309	0.399	ng	# 93
27) 2-Butanone (MEK)	10.62	72	4277	0.402	ng	96
28) cis-1,2-Dichloroethene	11.10	61	12814	0.524	ng	97
30) Ethyl Acetate	11.43	61	28677	4.120	ng	96
31) n-Hexane	11.41	57	4283	0.123	ng	93
32) Chloroform	11.45	83	20173	0.758	ng	99
41) Benzene	13.02	78	19743	0.305	ng	96
42) Carbon Tetrachloride	13.18	117	6675	0.317	ng	98
46) Bromodichloromethane	14.06	83	2305	0.108	ng	94
47) Trichloroethene	14.11	130	14346	0.815	ng	97
49) 2,2,4-Trimethylpentane...	14.18	57	7004	0.080	ng	75
51) n-Heptane	14.45	71	1537	0.081	ng	91
58) Toluene	15.96	91	32161	0.406	ng	98
59) 2-Hexanone	16.22	43	5250	0.126	ng	84
62) n-Butyl Acetate	16.84	43	3648	0.076	ng	84
64) Tetrachloroethene	17.10	166	2810	0.139	ng	98
66) Ethylbenzene	18.11	91	5222	0.058	ng	98
67) m- & p-Xylenes	18.26	91	11320	0.160	ng	98
70) o-Xylene	18.70	91	4476	0.064	ng	96
82) 1,2,4-Trimethylbenzene	20.22	105	4745	0.067	ng	85

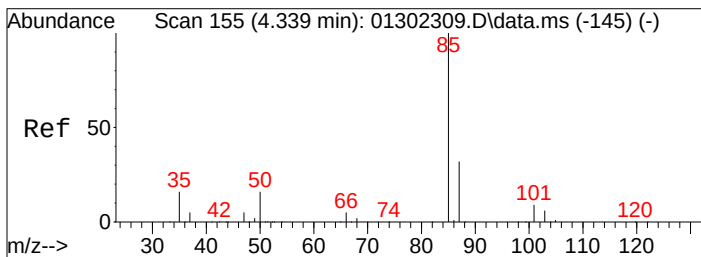
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS16\DATA\2023_03\24\03242323.D
Acq On : 24 Mar 2023 19:08
Sample : P2301250-046 (1000mL)
Misc : S35-01312301

Vial: 8
Operator: WA
Inst : GCMS-16

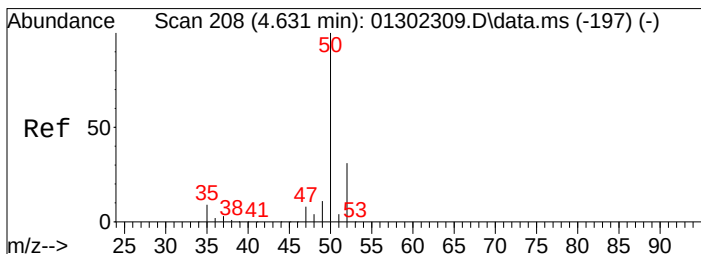
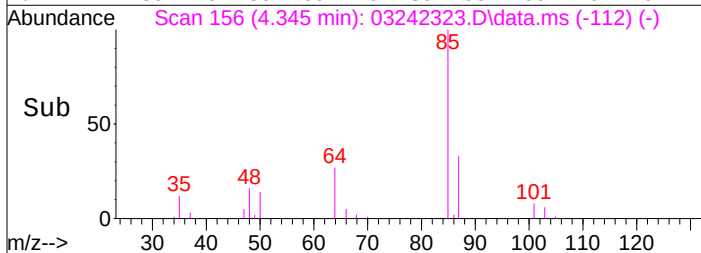
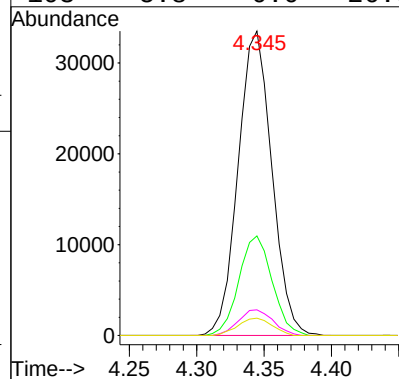
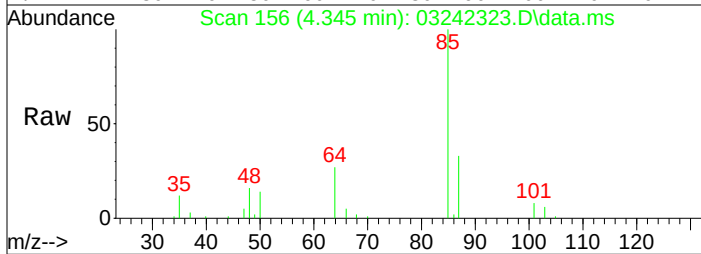
Quant Time: Mar 26 20:44:32 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M





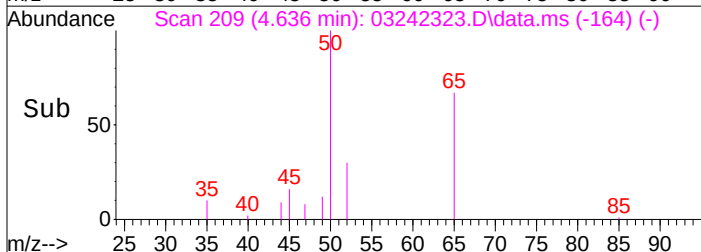
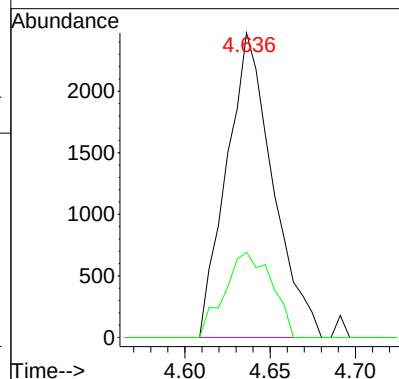
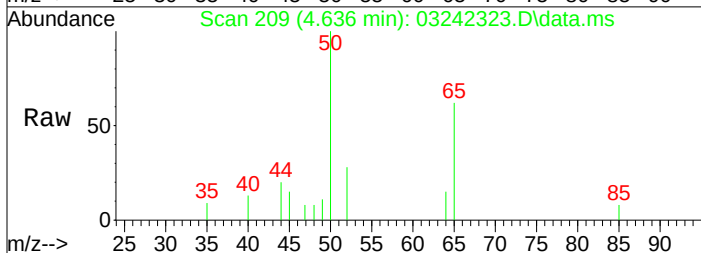
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.96 ng
 RT: 4.34 min Scan# 156
 Delta R.T. -0.005 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:08

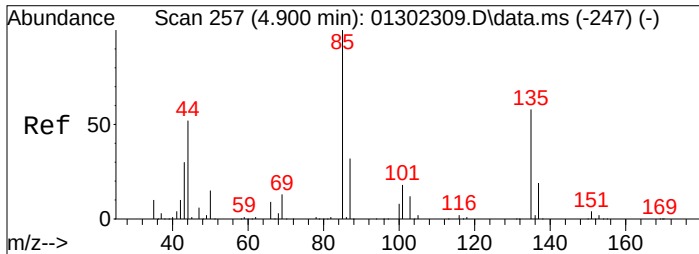
Tgt Ion:	85	Resp:	58324
Ion Ratio	Lower	Upper	
85	100		
87	32.3	12.1	52.1
101	8.7	0.0	29.3
103	5.8	0.0	26.0



#4
 Chloromethane
 Concen: 0.17 ng
 RT: 4.64 min Scan# 209
 Delta R.T. 0.000 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:08

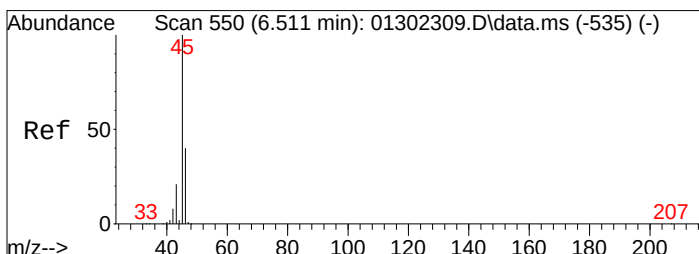
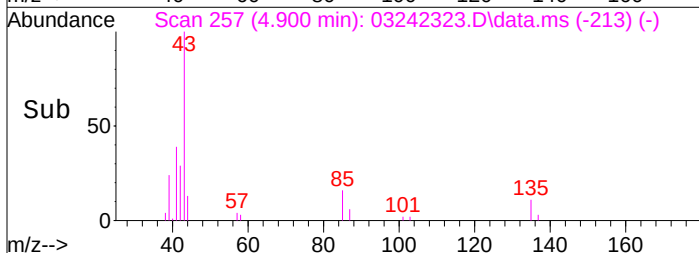
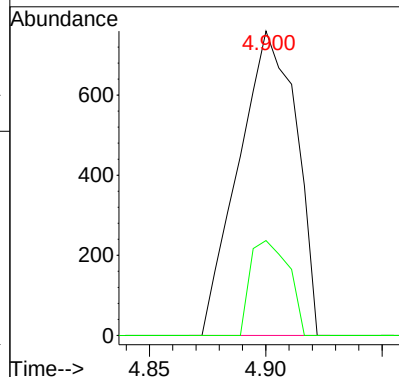
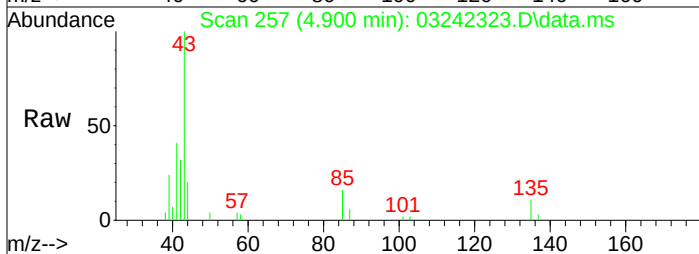
Tgt Ion:	50	Resp:	4645
Ion Ratio	Lower	Upper	
50	100		
52	28.6	12.2	52.2





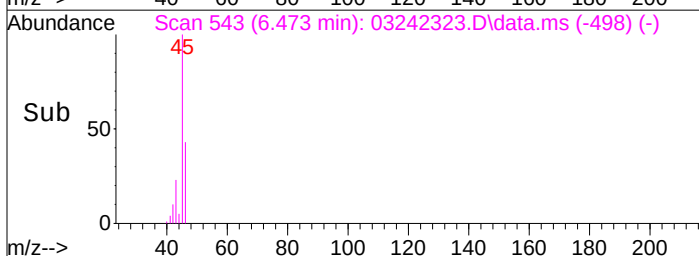
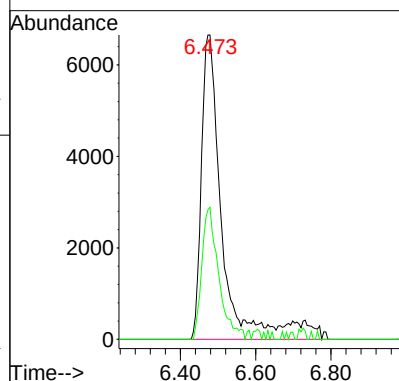
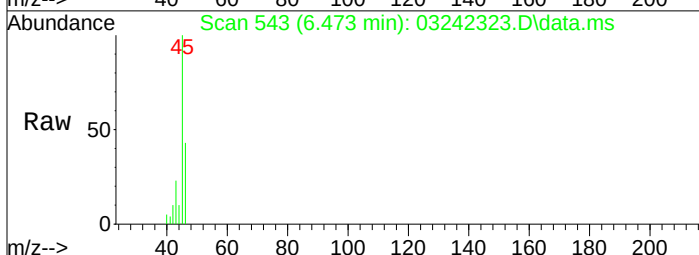
#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.08 ng
 RT: 4.90 min Scan# 257
 Delta R.T. -0.005 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:08

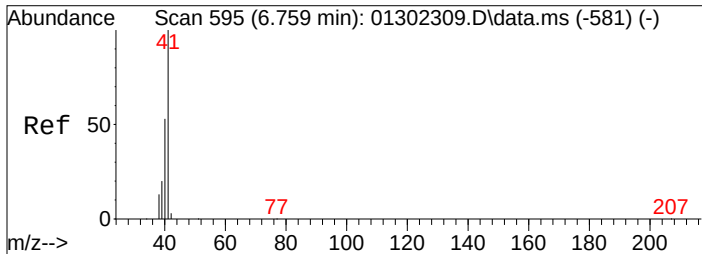
Tgt Ion: 135 Resp: 1304
 Ion Ratio Lower Upper
 135 100
 137 20.8 12.0 52.0



#10
 Ethanol
 Concen: 1.34 ng
 RT: 6.47 min Scan# 543
 Delta R.T. -0.005 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:08

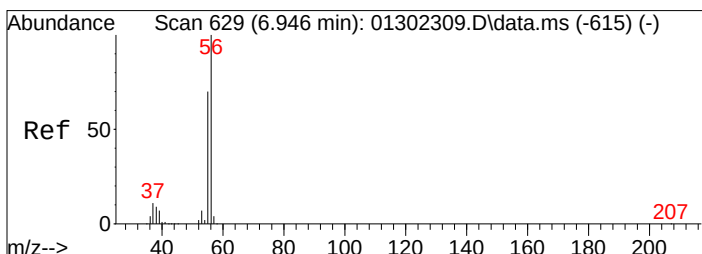
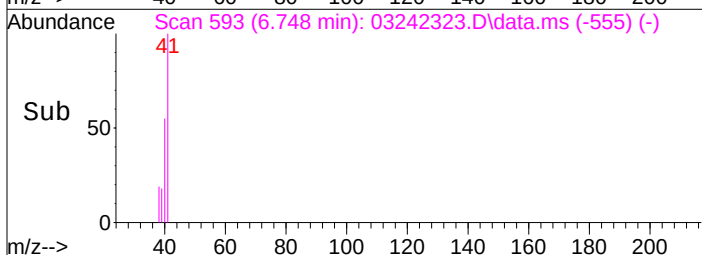
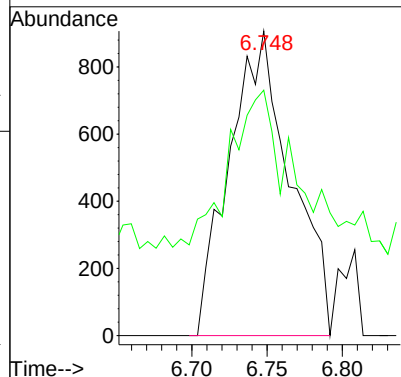
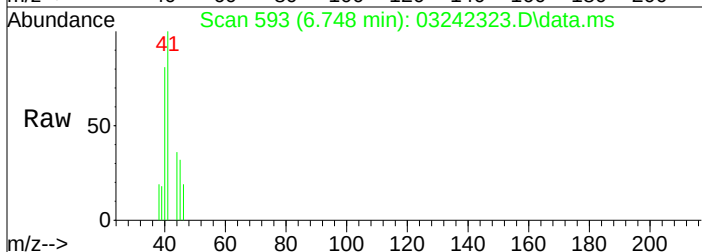
Tgt Ion: 45 Resp: 25777
 Ion Ratio Lower Upper
 45 100
 46 34.9 20.5 60.5





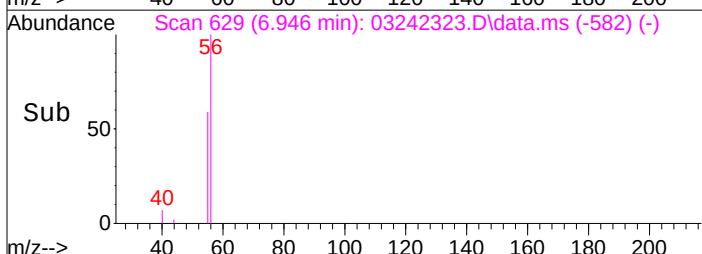
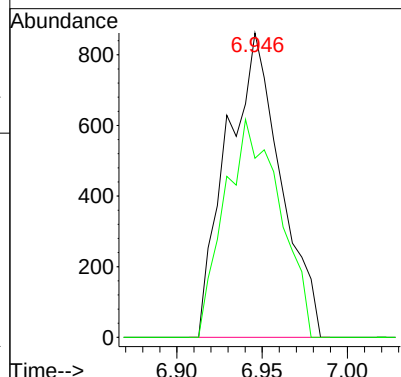
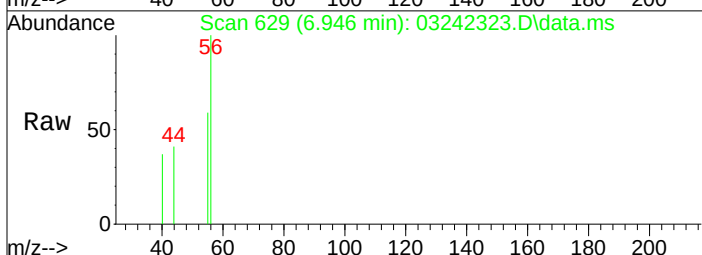
#11
Acetonitrile
Concen: 0.05 ng
RT: 6.75 min Scan# 593
Delta R.T. 0.011 min
Lab File: 03242323.D
Acq: 24 Mar 2023 19:08

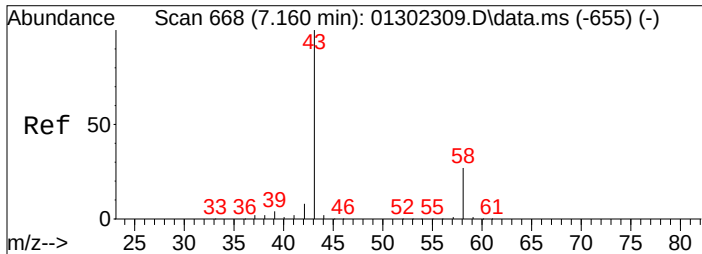
Tgt Ion: 41 Resp: 2567
Ion Ratio Lower Upper
41 100
40 70.2 32.4 72.4



#12
Acrolein
Concen: 0.14 ng
RT: 6.95 min Scan# 629
Delta R.T. 0.011 min
Lab File: 03242323.D
Acq: 24 Mar 2023 19:08

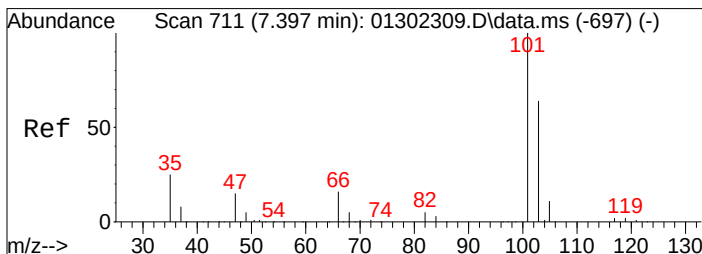
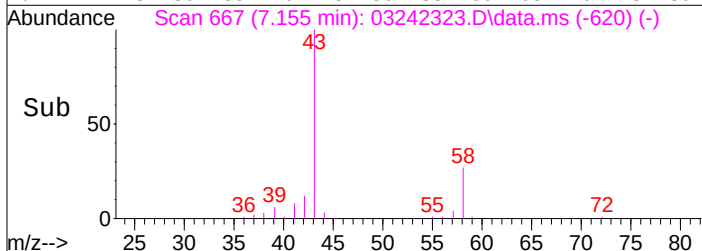
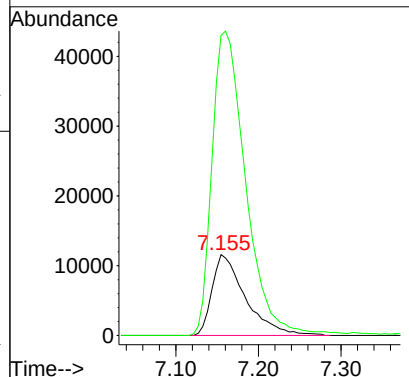
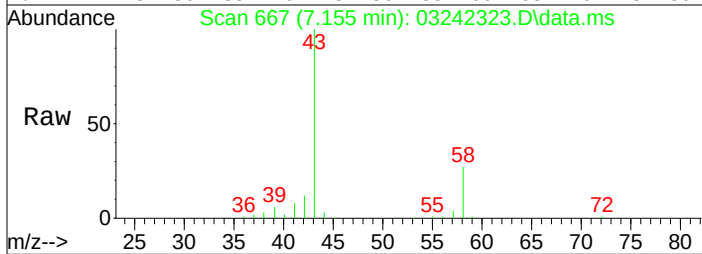
Tgt Ion: 56 Resp: 1884
Ion Ratio Lower Upper
56 100
55 73.5 49.9 89.9





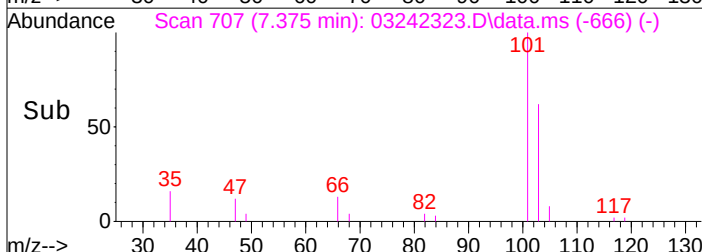
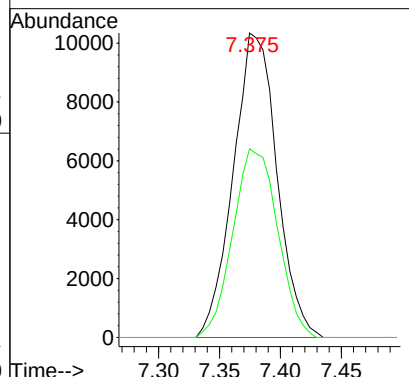
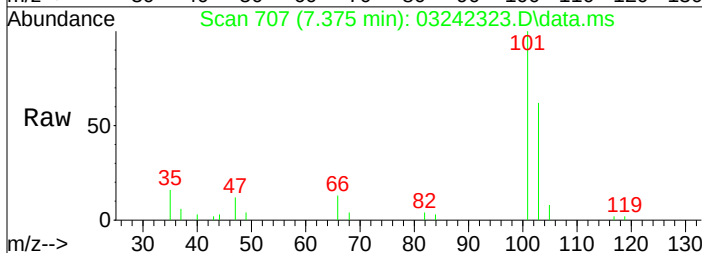
#13
 Acetone
 Concen: 2.23 ng
 RT: 7.15 min Scan# 667
 Delta R.T. 0.011 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:08

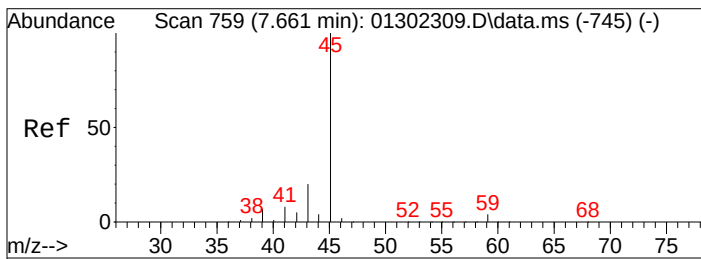
Tgt Ion	Ratio	Lower	Upper
58	100		
43	378.5	298.5	358.5#



#14
 Trichlorofluoromethane
 Concen: 0.94 ng
 RT: 7.37 min Scan# 707
 Delta R.T. -0.022 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:08

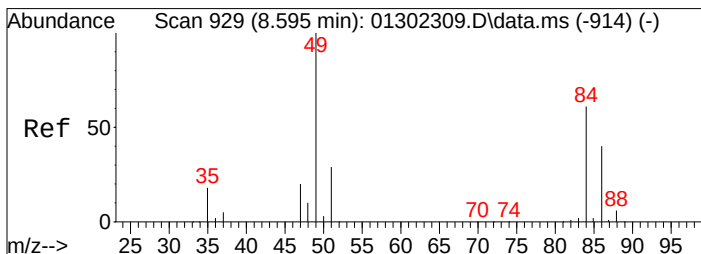
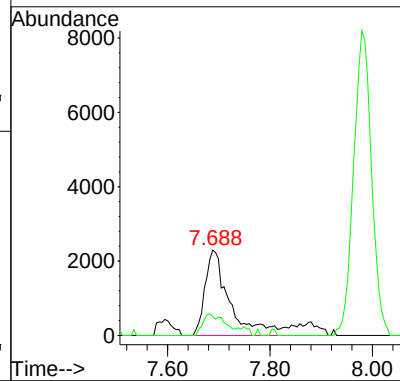
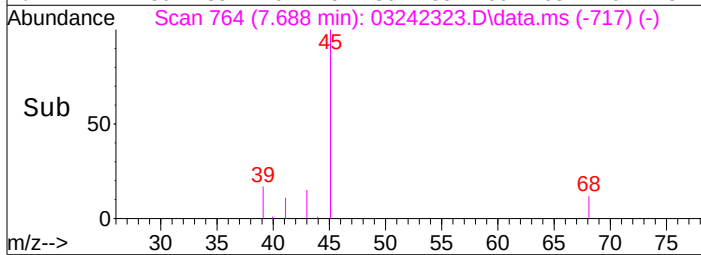
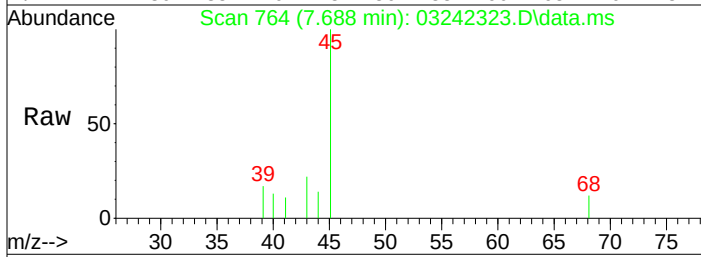
Tgt Ion	Ratio	Lower	Upper
101	100		
103	63.6	44.8	84.8





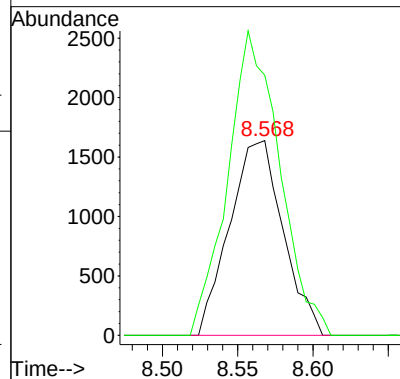
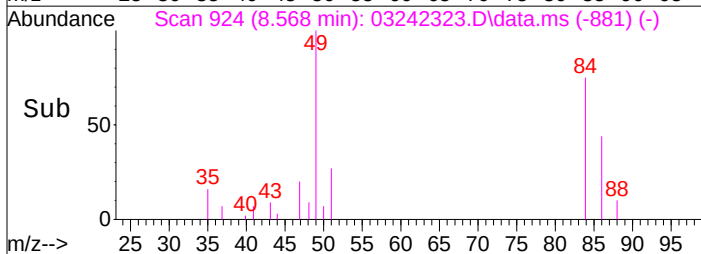
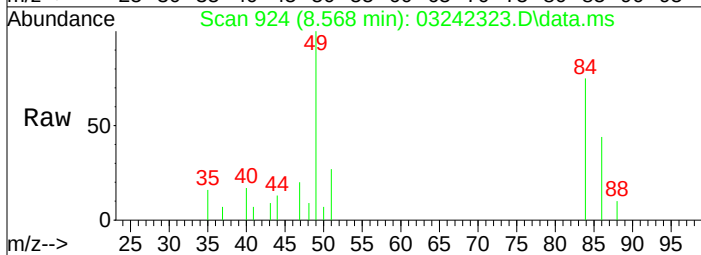
#15
2-Propanol (Isopropanol)
Concen: 0.17 ng
RT: 7.69 min Scan# 764
Delta R.T. 0.008 min
Lab File: 03242323.D
Acq: 24 Mar 2023 19:08

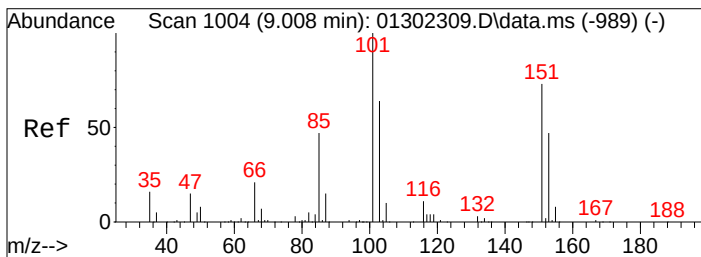
Tgt Ion: 45 Resp: 8848
Ion Ratio Lower Upper
45 100
43 22.9 0.0 37.9



#19
Methylene Chloride
Concen: 0.25 ng
RT: 8.57 min Scan# 924
Delta R.T. -0.011 min
Lab File: 03242323.D
Acq: 24 Mar 2023 19:08

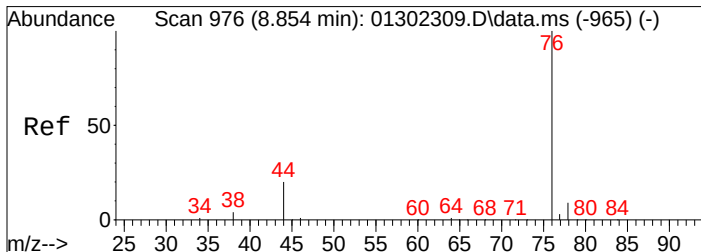
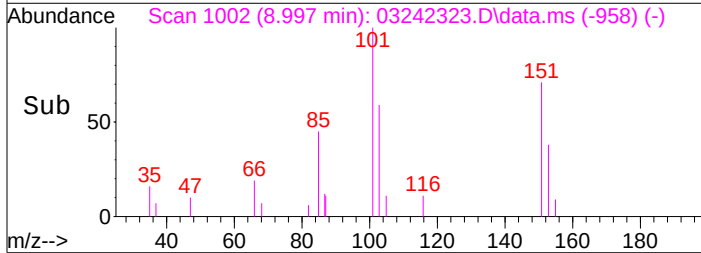
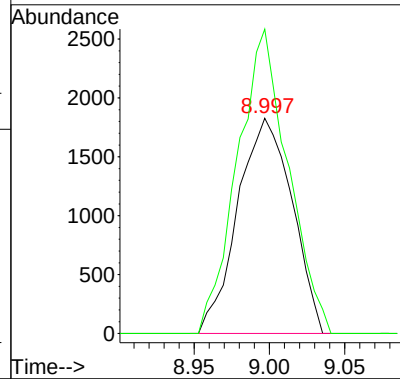
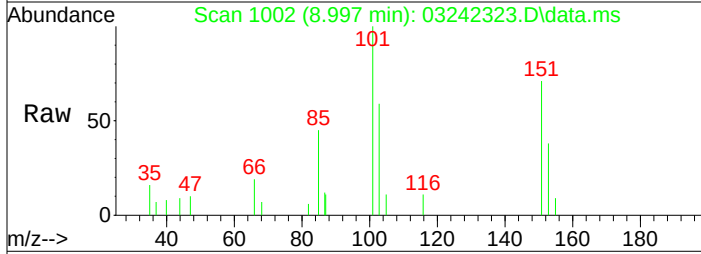
Tgt Ion: 84 Resp: 4049
Ion Ratio Lower Upper
84 100
49 151.9 135.0 185.0





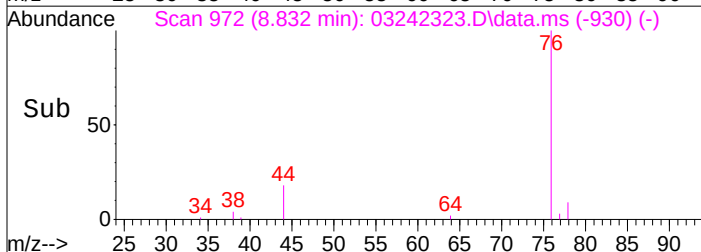
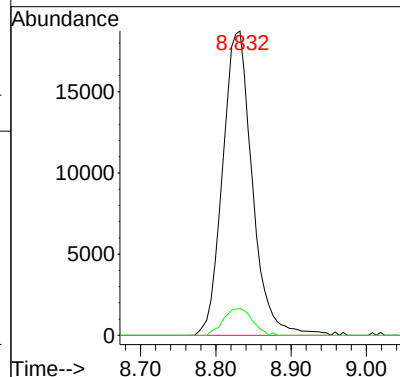
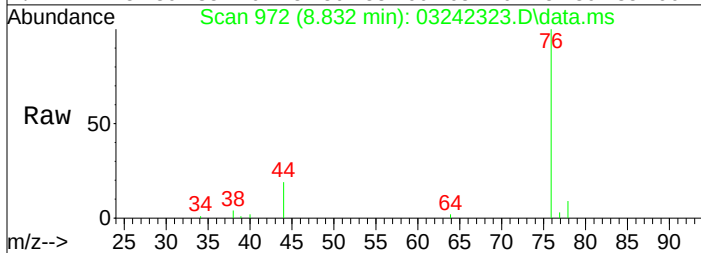
#21
 Trichlorotrifluoroethane
 Concen: 0.34 ng
 RT: 9.00 min Scan# 1002
 Delta R.T. -0.005 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:08

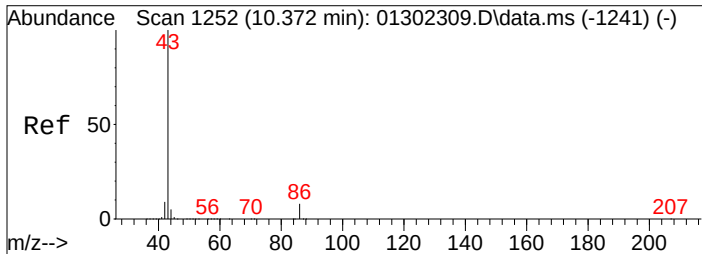
Tgt Ion: 151 Resp: 4592
 Ion Ratio Lower Upper
 151 100
 101 131.8 101.5 141.5



#22
 Carbon Disulfide
 Concen: 0.89 ng
 RT: 8.83 min Scan# 972
 Delta R.T. -0.016 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:08

Tgt Ion: 76 Resp: 51330
 Ion Ratio Lower Upper
 76 100
 78 8.7 0.0 29.1

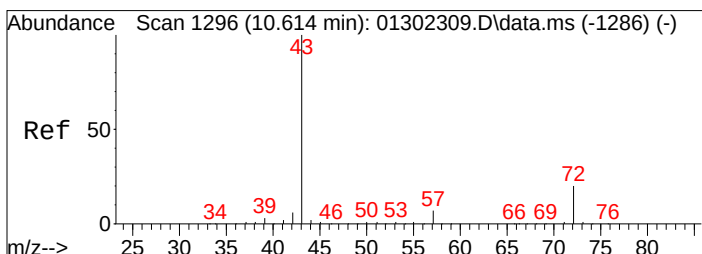
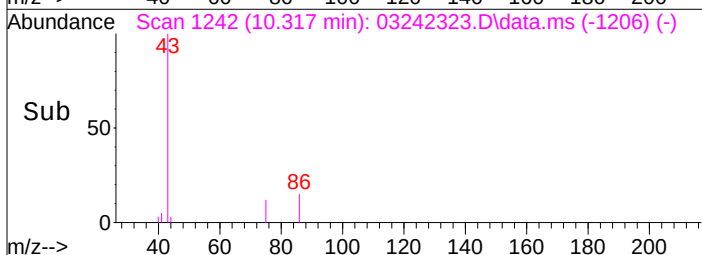
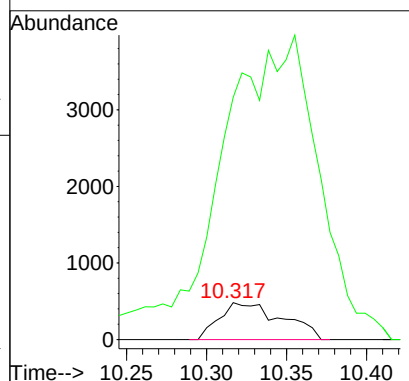
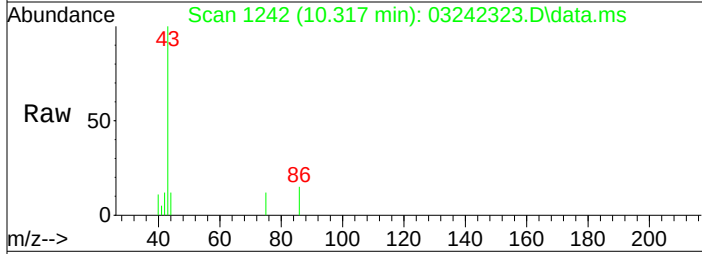




#26
 Vinyl Acetate
 Concen: 0.40 ng
 RT: 10.32 min Scan# 1242
 Delta R.T. -0.049 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:08

Tgt Ion: 86 Resp: 1309

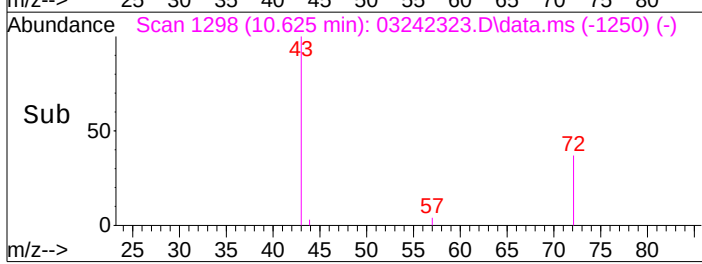
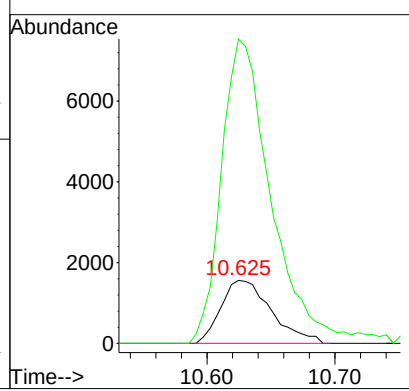
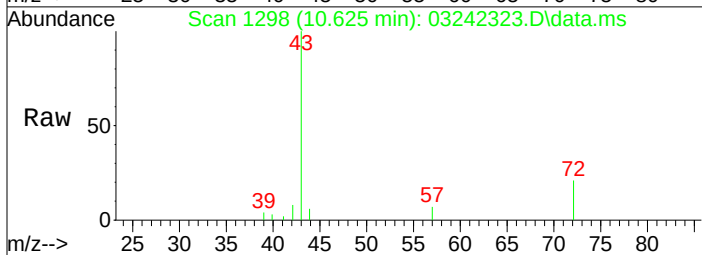
Ion	Ratio	Lower	Upper
86	100		
43	1276.4	1219.3	1259.3#

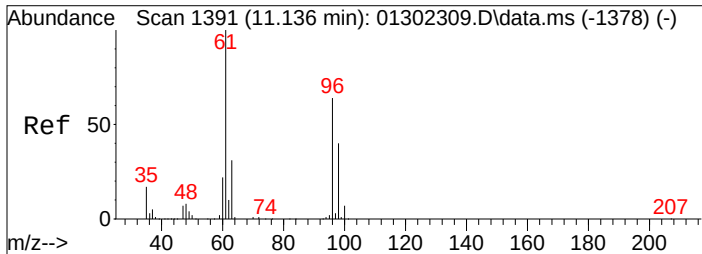


#27
 2-Butanone (MEK)
 Concen: 0.40 ng
 RT: 10.62 min Scan# 1298
 Delta R.T. 0.017 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:08

Tgt Ion: 72 Resp: 4277

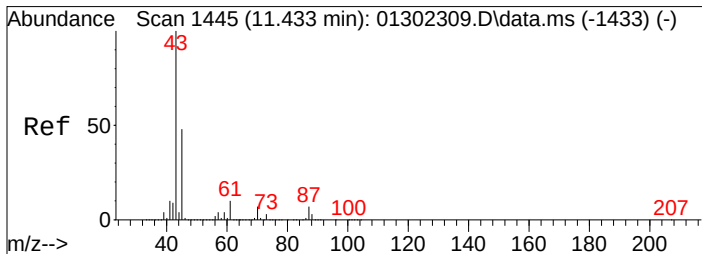
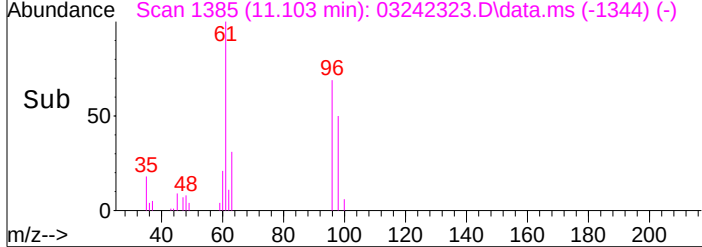
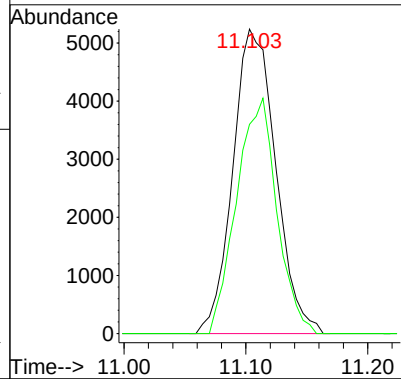
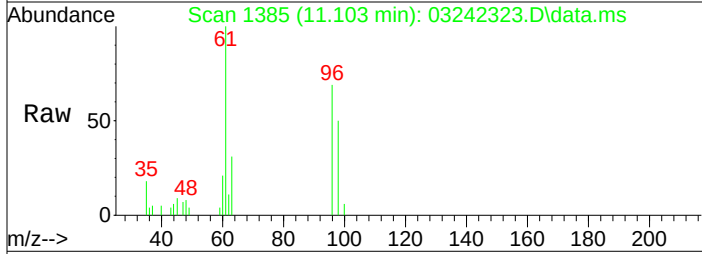
Ion	Ratio	Lower	Upper
72	100		
43	478.9	449.4	489.4





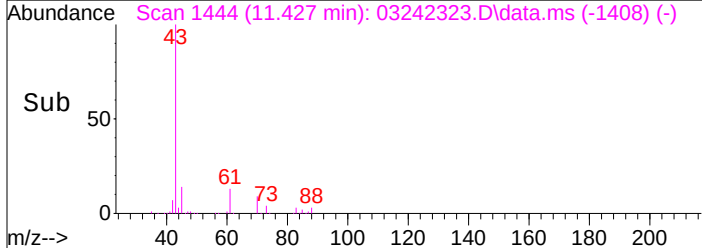
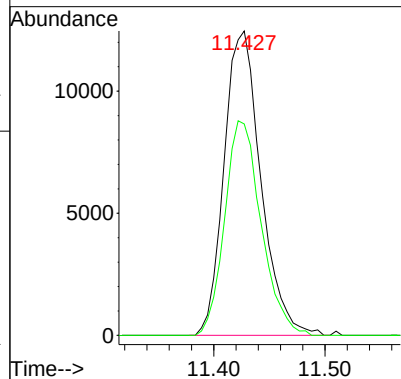
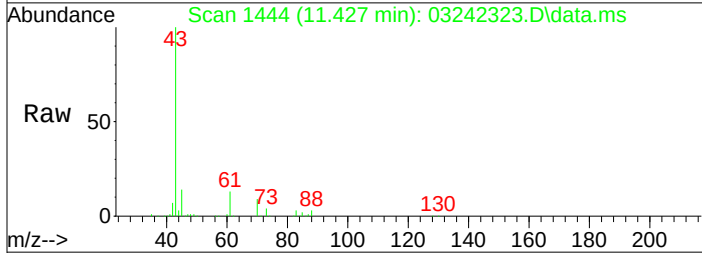
#28
 cis-1,2-Dichloroethene
 Concen: 0.52 ng
 RT: 11.10 min Scan# 1385
 Delta R.T. -0.022 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:08

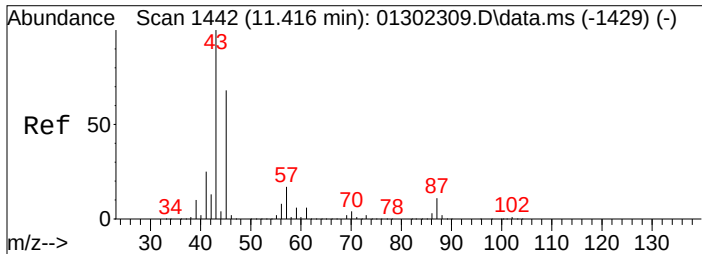
Tgt Ion:	61	Resp:	12814
Ion Ratio		Lower	Upper
61	100		
96	72.6	49.9	89.9



#30
 Ethyl Acetate
 Concen: 4.12 ng
 RT: 11.43 min Scan# 1444
 Delta R.T. 0.000 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:08

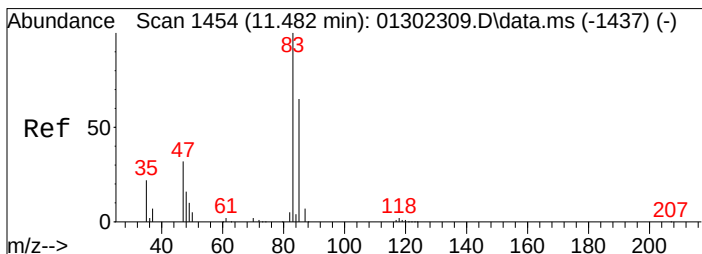
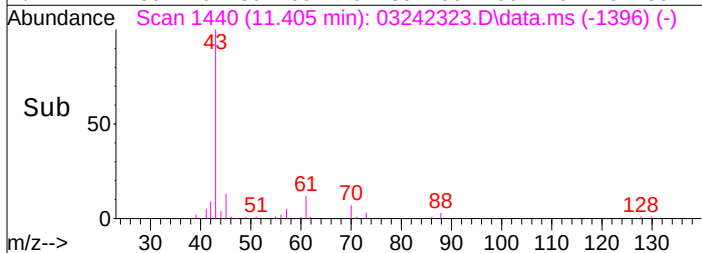
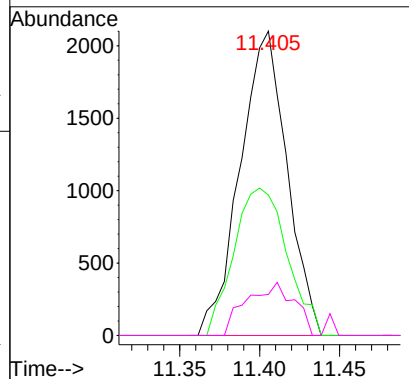
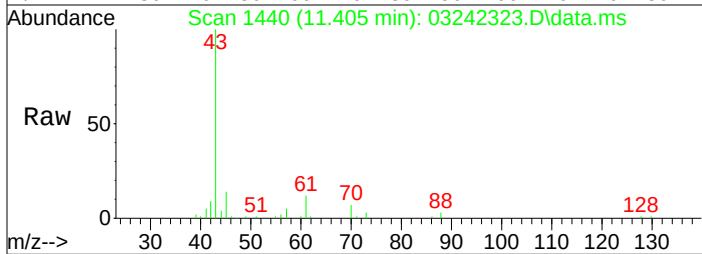
Tgt Ion:	61	Resp:	28677
Ion Ratio		Lower	Upper
61	100		
70	69.7	52.8	92.8





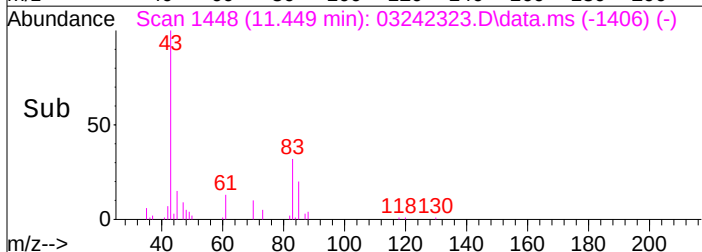
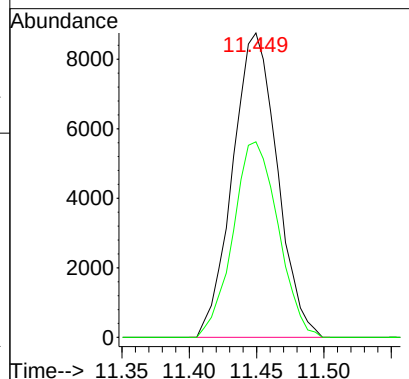
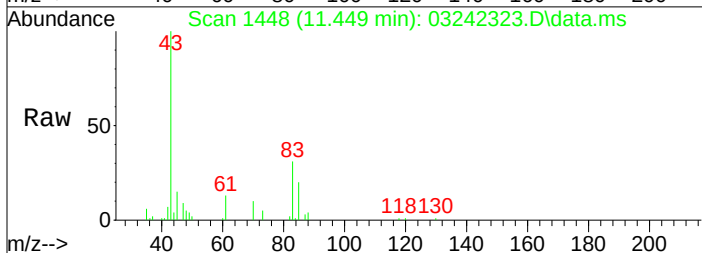
#31
n-Hexane
Concen: 0.12 ng
RT: 11.41 min Scan# 1440
Delta R.T. -0.005 min
Lab File: 03242323.D
Acq: 24 Mar 2023 19:08

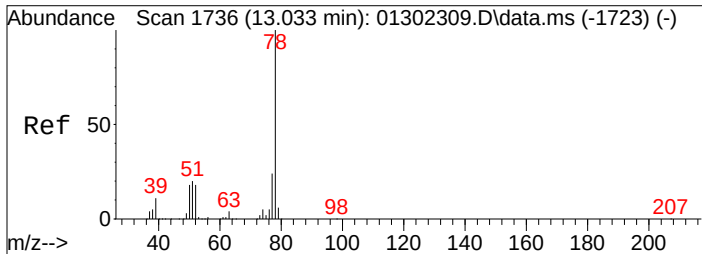
Tgt Ion:	57	Resp:	4283
Ion Ratio		Lower	Upper
57	100		
56	55.0	39.9	59.9
86	17.6	12.3	18.5



#32
Chloroform
Concen: 0.76 ng
RT: 11.45 min Scan# 1448
Delta R.T. -0.016 min
Lab File: 03242323.D
Acq: 24 Mar 2023 19:08

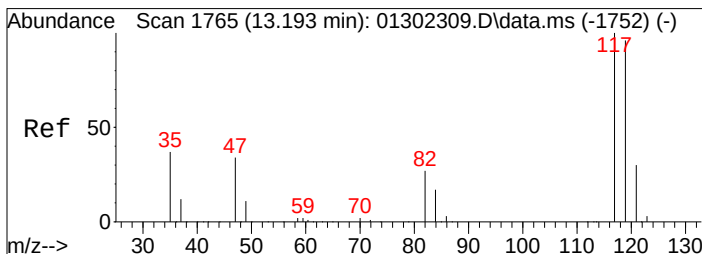
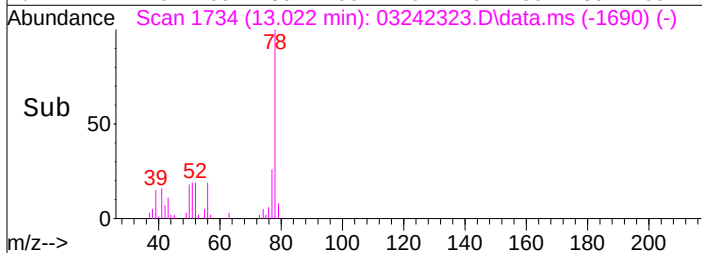
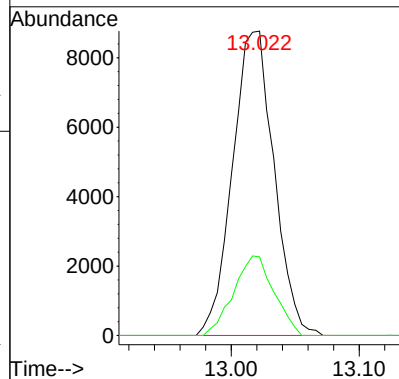
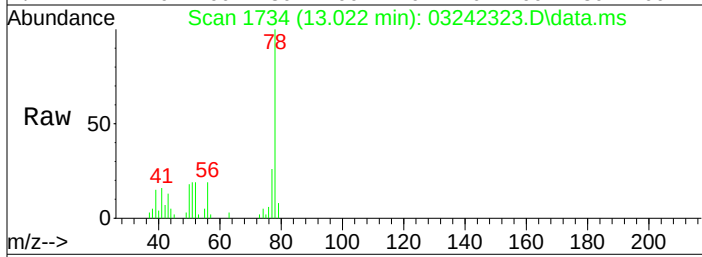
Tgt Ion:	83	Resp:	20173
Ion Ratio		Lower	Upper
83	100		
85	64.9	45.5	85.5





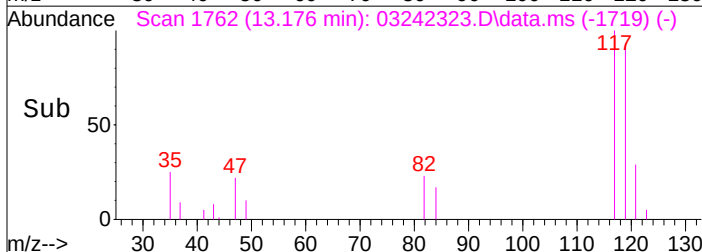
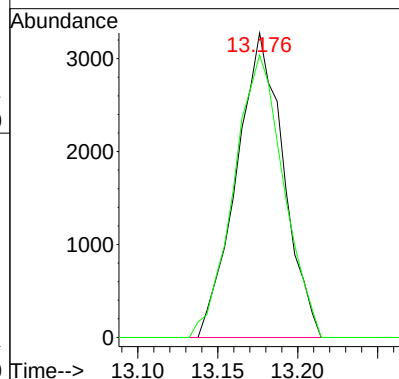
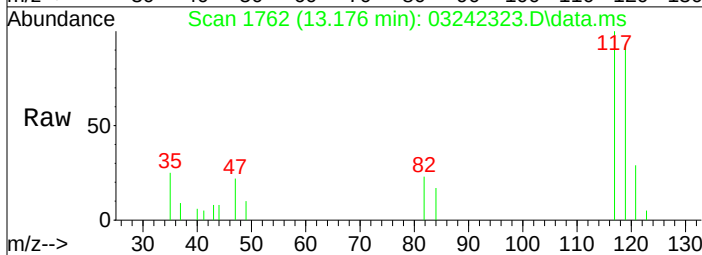
#41
Benzene
Concen: 0.30 ng
RT: 13.02 min Scan# 1734
Delta R.T. -0.005 min
Lab File: 03242323.D
Acq: 24 Mar 2023 19:08

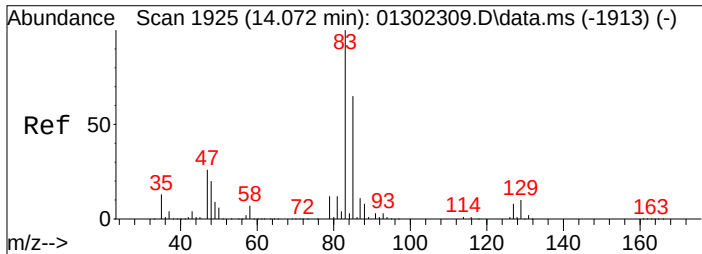
Tgt Ion: 78 Resp: 19743
Ion Ratio Lower Upper
78 100
77 25.4 3.3 43.3



#42
Carbon Tetrachloride
Concen: 0.32 ng
RT: 13.18 min Scan# 1762
Delta R.T. -0.011 min
Lab File: 03242323.D
Acq: 24 Mar 2023 19:08

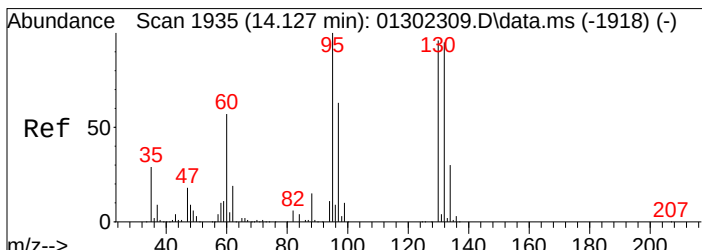
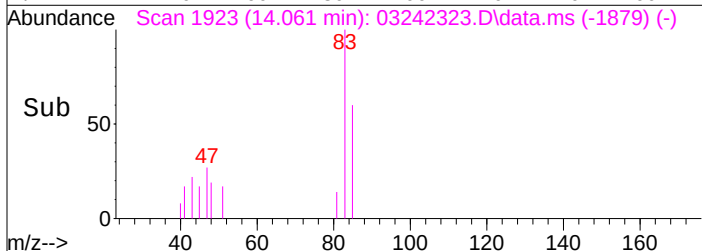
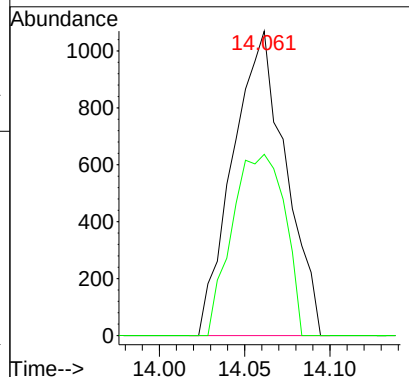
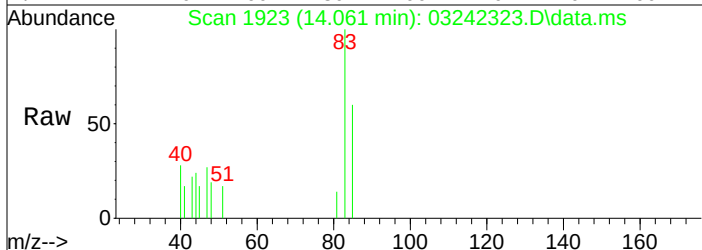
Tgt Ion: 117 Resp: 6675
Ion Ratio Lower Upper
117 100
119 98.5 76.2 116.2





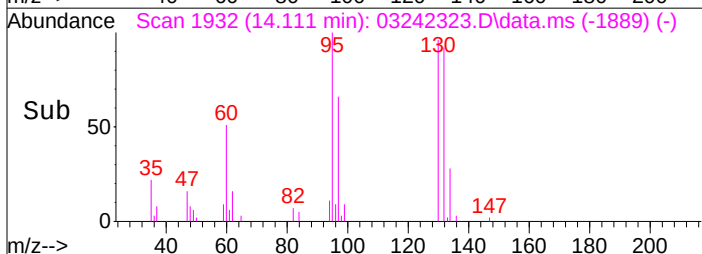
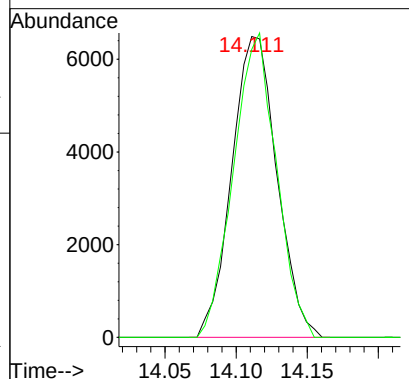
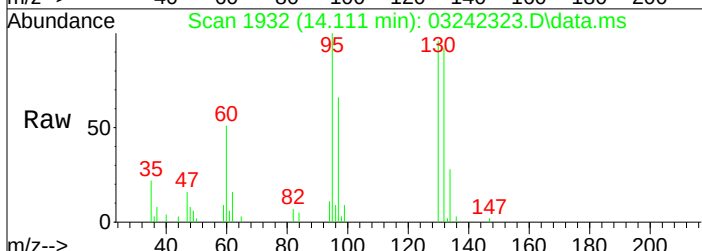
#46
 Bromodichloromethane
 Concen: 0.11 ng
 RT: 14.06 min Scan# 1923
 Delta R.T. -0.005 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:08

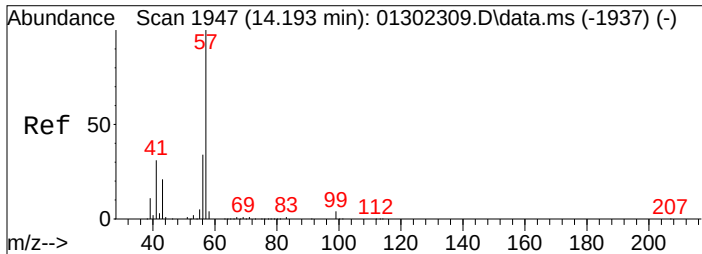
Tgt Ion:	83	Resp:	2305
Ion Ratio		Lower	Upper
83	100		
85	59.3	44.3	84.3



#47
 Trichloroethene
 Concen: 0.81 ng
 RT: 14.11 min Scan# 1932
 Delta R.T. -0.011 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:08

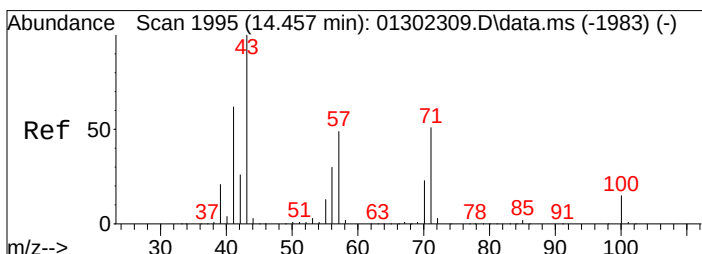
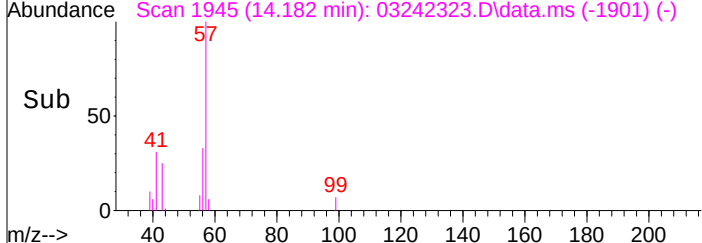
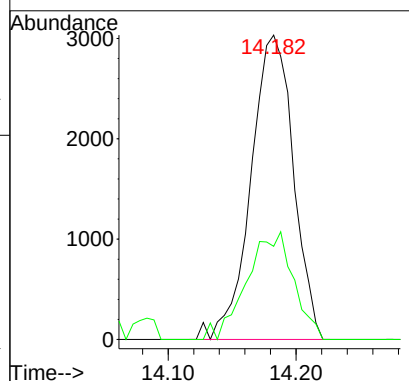
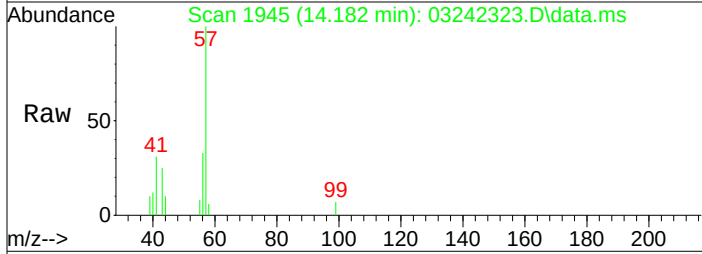
Tgt Ion:	130	Resp:	14346
Ion Ratio		Lower	Upper
130	100		
132	96.1	78.7	118.7





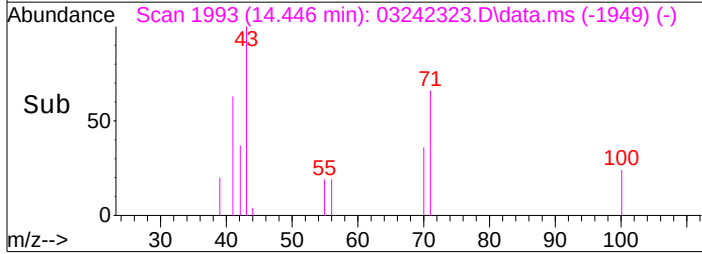
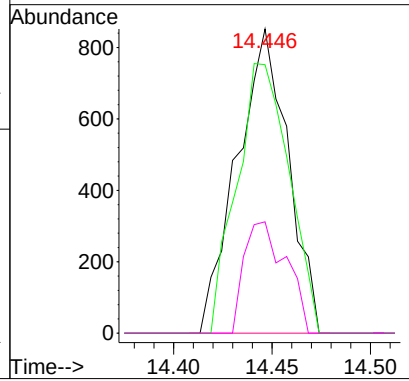
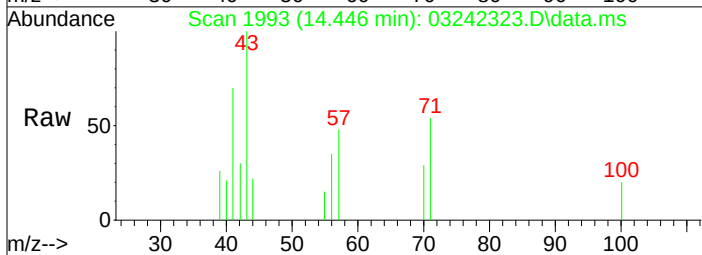
#49
 2,2,4-Trimethylpentane (Isooctane)
 Concen: 0.08 ng
 RT: 14.18 min Scan# 1945
 Delta R.T. -0.005 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:08

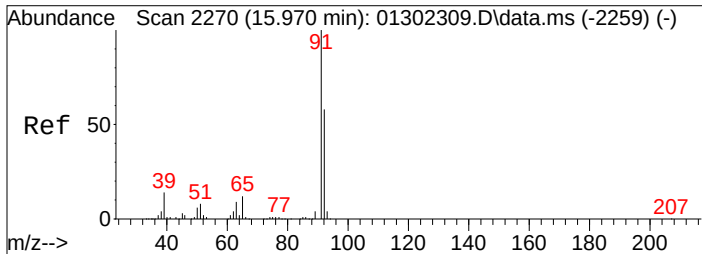
Tgt Ion:	57	Resp:	7004
Ion Ratio	Lower	Upper	
57	100		
41	38.7	5.8	45.8



#51
 n-Heptane
 Concen: 0.08 ng
 RT: 14.45 min Scan# 1993
 Delta R.T. -0.005 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:08

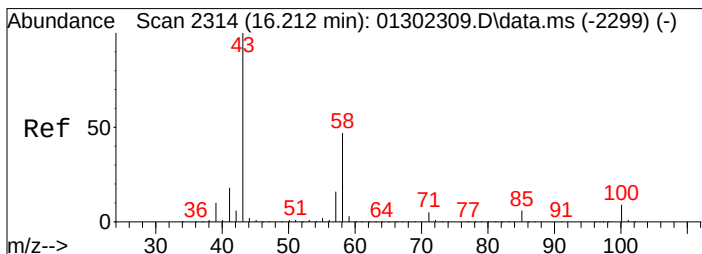
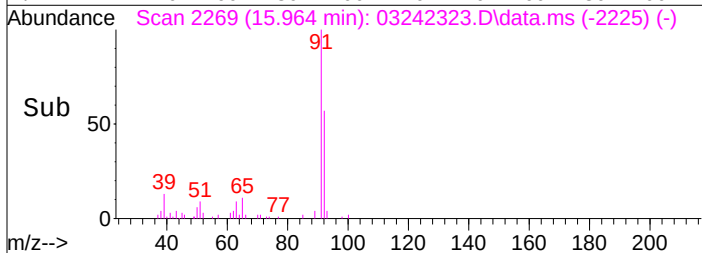
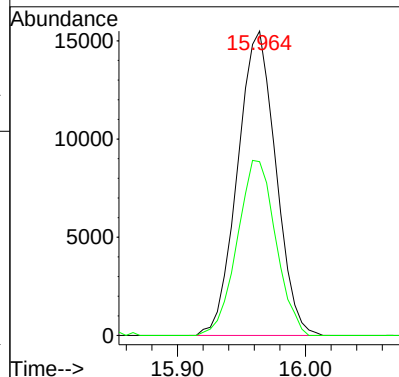
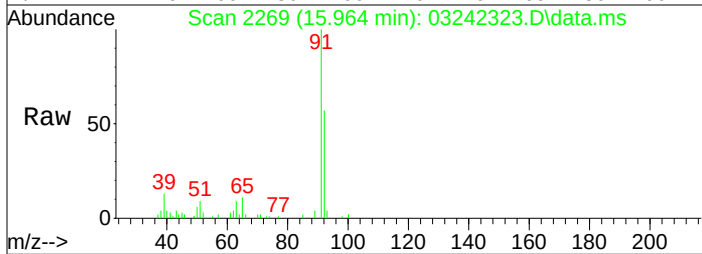
Tgt Ion:	71	Resp:	1537
Ion Ratio	Lower	Upper	
71	100		
57	91.0	81.4	121.4
100	30.0	11.8	51.8





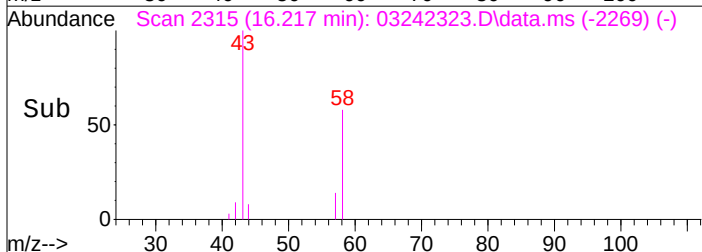
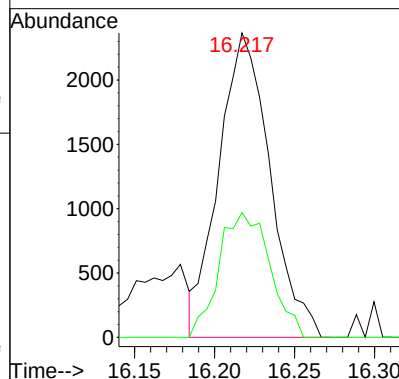
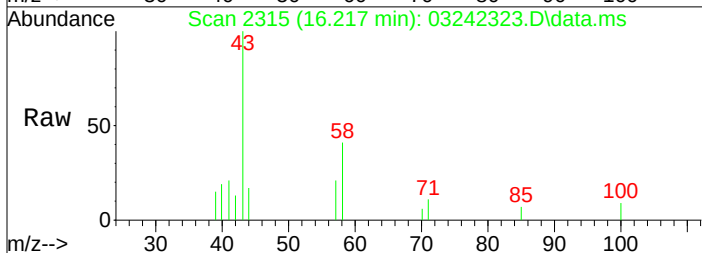
#58
Toluene
Concen: 0.41 ng
RT: 15.96 min Scan# 2269
Delta R.T. -0.005 min
Lab File: 03242323.D
Acq: 24 Mar 2023 19:08

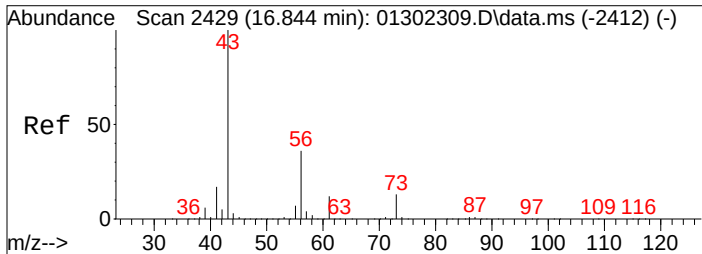
Tgt Ion: 91 Resp: 32161
Ion Ratio Lower Upper
91 100
92 57.9 39.8 79.8



#59
2-Hexanone
Concen: 0.13 ng
RT: 16.22 min Scan# 2315
Delta R.T. 0.006 min
Lab File: 03242323.D
Acq: 24 Mar 2023 19:08

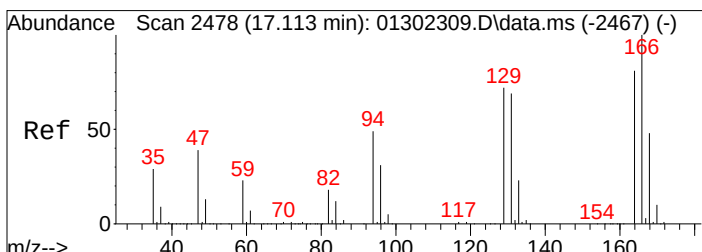
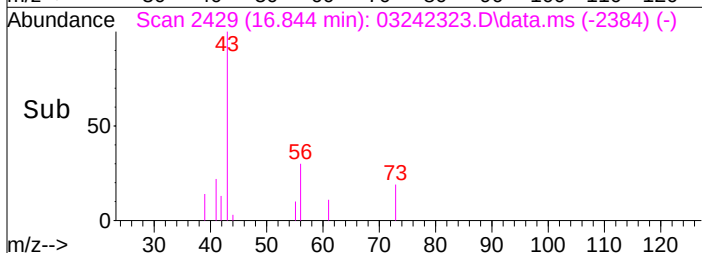
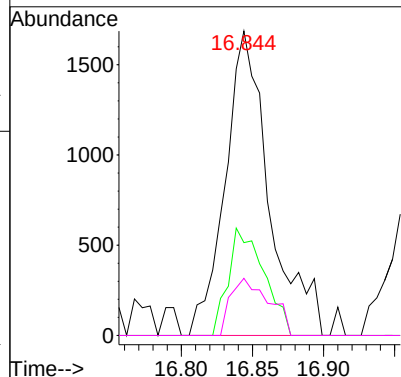
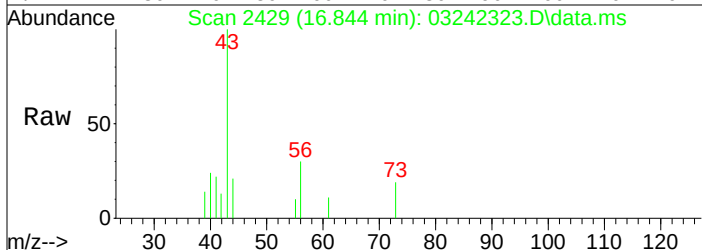
Tgt Ion: 43 Resp: 5250
Ion Ratio Lower Upper
43 100
58 40.8 32.3 72.3





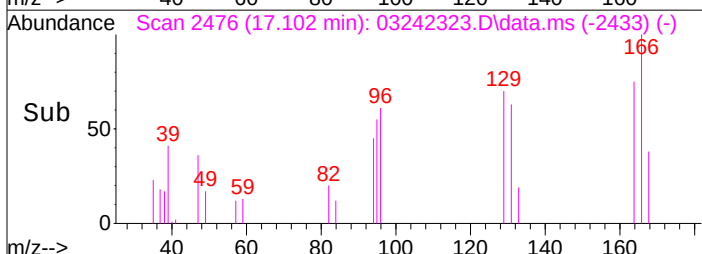
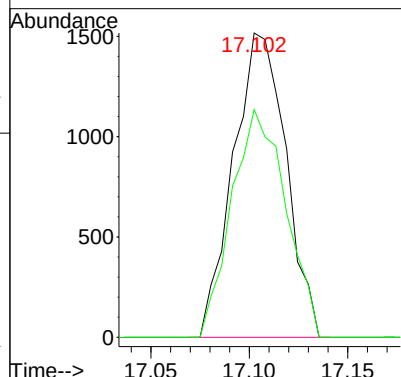
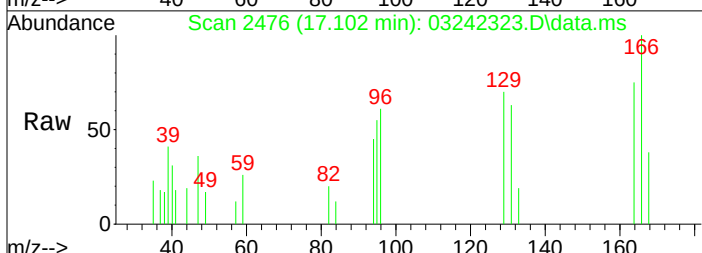
#62
 n-Butyl Acetate
 Concen: 0.08 ng
 RT: 16.84 min Scan# 2429
 Delta R.T. 0.000 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:08

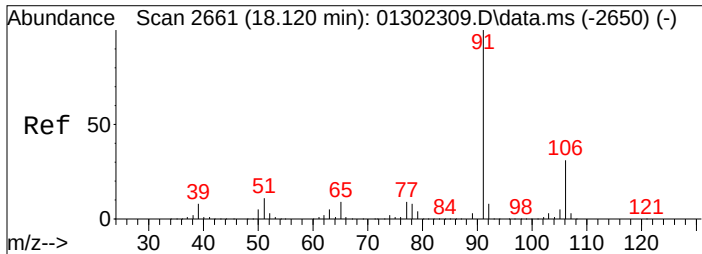
Tgt Ion:	43	Resp:	3648
Ion Ratio		Lower	Upper
43	100		
56	28.6	21.0	61.0
73	16.5	0.0	34.3



#64
 Tetrachloroethene
 Concen: 0.14 ng
 RT: 17.10 min Scan# 2476
 Delta R.T. -0.011 min
 Lab File: 03242323.D
 Acq: 24 Mar 2023 19:08

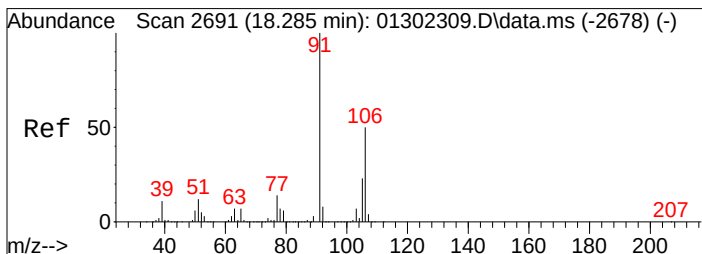
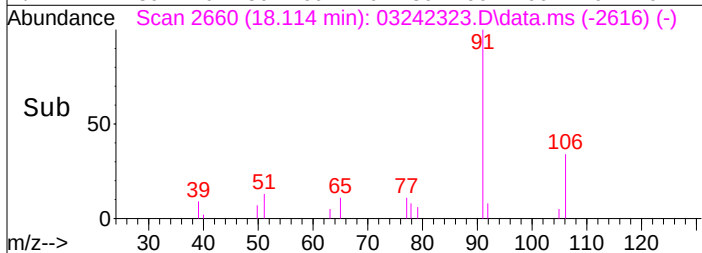
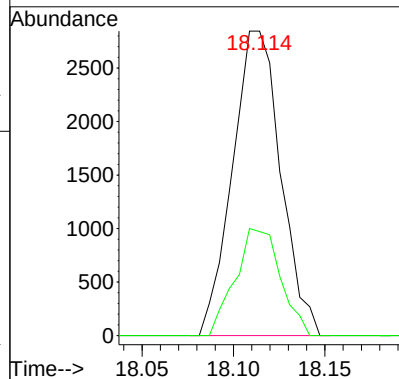
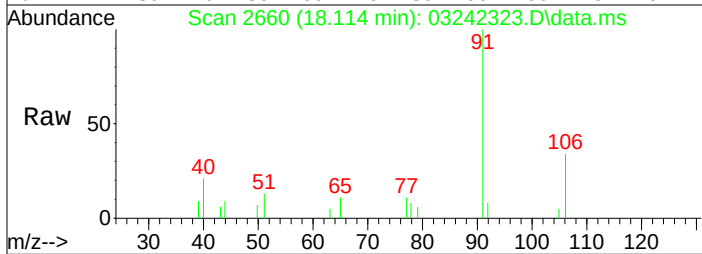
Tgt Ion:	166	Resp:	2810
Ion Ratio		Lower	Upper
166	100		
164	77.2	58.7	98.7





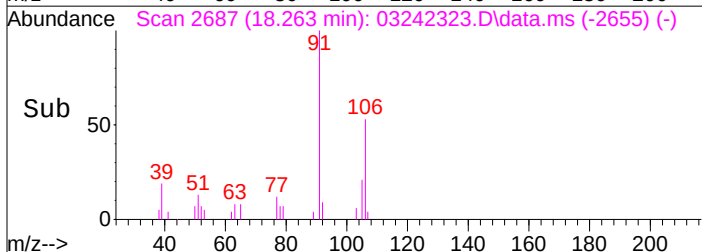
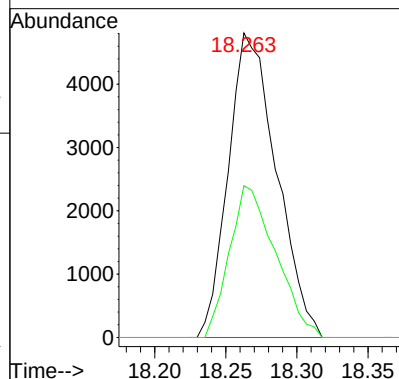
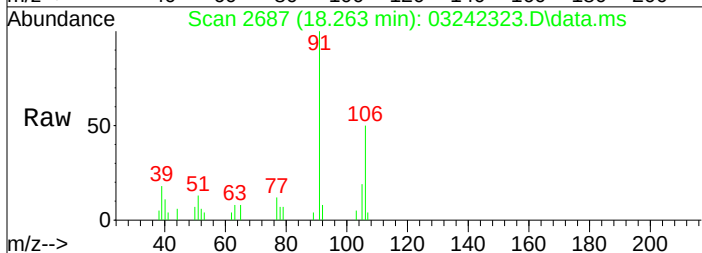
#66
Ethylbenzene
Concen: 0.06 ng
RT: 18.11 min Scan# 2660
Delta R.T. -0.005 min
Lab File: 03242323.D
Acq: 24 Mar 2023 19:08

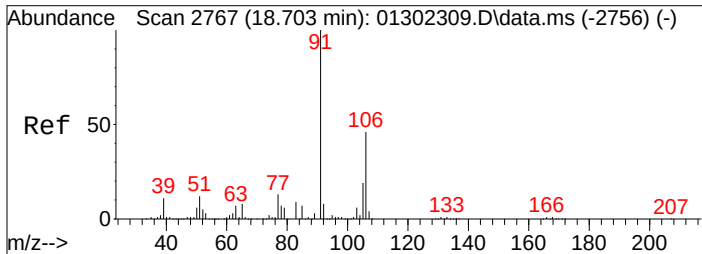
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	5222		
106	32.8	11.5		51.5



#67
m- & p-Xylenes
Concen: 0.16 ng
RT: 18.26 min Scan# 2687
Delta R.T. -0.022 min
Lab File: 03242323.D
Acq: 24 Mar 2023 19:08

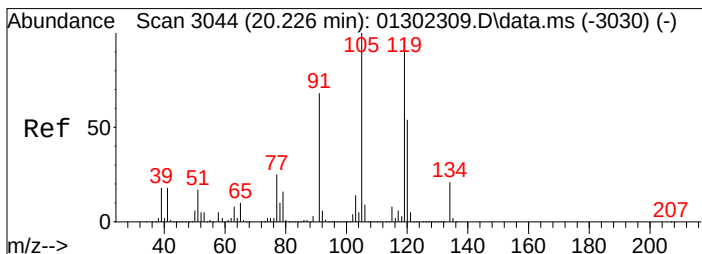
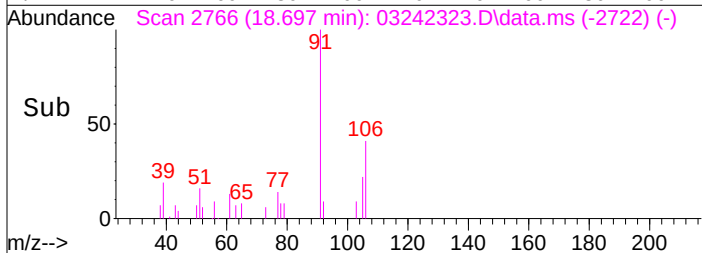
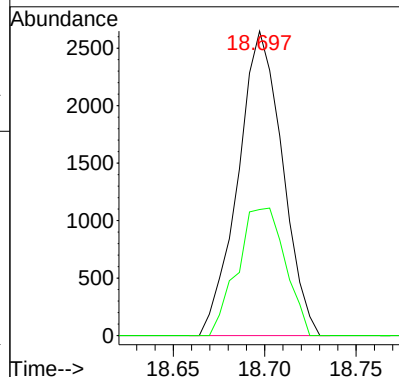
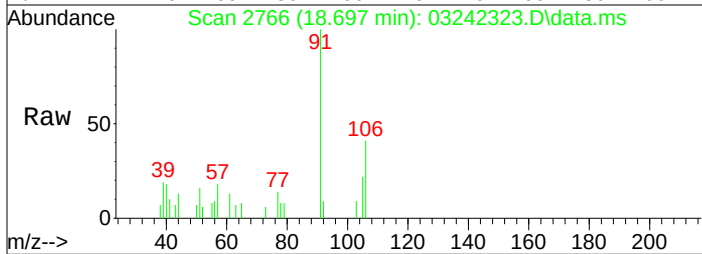
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	11320		
106	47.8	29.2		69.2





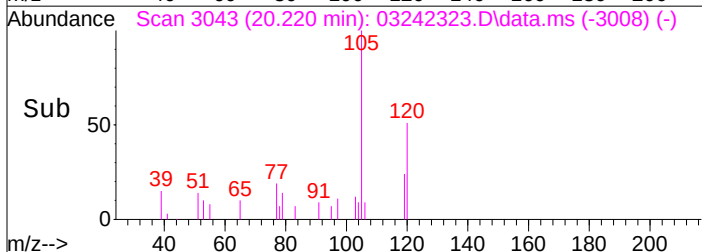
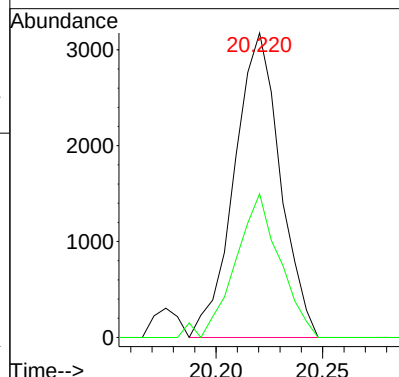
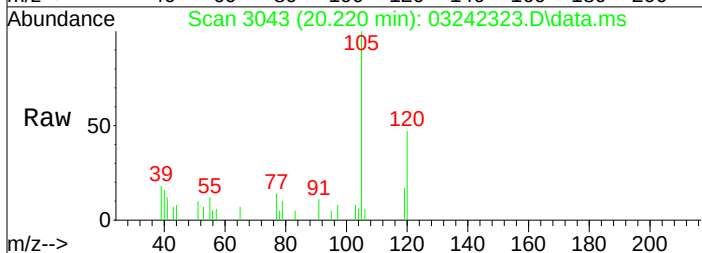
#70
o-Xylene
Concen: 0.06 ng
RT: 18.70 min Scan# 2766
Delta R.T. -0.005 min
Lab File: 03242323.D
Acq: 24 Mar 2023 19:08

Tgt Ion: 91 Resp: 4476
Ion Ratio Lower Upper
91 100
106 44.8 27.3 67.3



#82
1,2,4-Trimethylbenzene
Concen: 0.07 ng
RT: 20.22 min Scan# 3043
Delta R.T. -0.005 min
Lab File: 03242323.D
Acq: 24 Mar 2023 19:08

Tgt Ion: 105 Resp: 4745
Ion Ratio Lower Upper
105 100
120 45.9 37.2 77.2



Data File : I:\MS16\DATA\2023_03\24\03242323.D
 Acq On : 24 Mar 2023 19:08
 Sample : P2301250-046 (1000mL)
 Misc : S35-01312301

Vial: 8
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 26 20:50:29 2023

Quant Method : I:\MS16\METHODS\C16122022.M

Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD

QLast Update : Wed Dec 21 05:02:49 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

3/26/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.28	130	199463	12.500	ng	-0.02
16) 1,4-Difluorobenzene (C_2)	13.41	114	919256	12.500	ng	-0.01
19) Chlorobenzene-d5 (C_3)	17.72	54	206545	12.500	ng	0.00

Target Compounds						Qvalue
2) Chloropentafluoroethane	3.87	85	670	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.97	83	5172	0.327	ng	90
4) 1,1-Difluoroethane	4.08	65	668	N.D.		
5) Chlorodifluoromethane ...	4.18	67	3180	0.645	ng	90
6) 1-Chloro-1,1-Difluoroe...	4.64	65	2552	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	8.60	43	3865	N.D.		
12) 2-Methylpentane	10.36	71	1975	0.101	ng	# 1
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	13.17	84	1278	N.D.		
17) 2,3-Dimethylpentane	13.59	56	1253	N.D.		
18) Dibromomethane	13.83	174	188	N.D.		
20) Methyl Cyclohexane	15.09	55	1067	N.D.		
21) 1,3-Dichloropropane	0.00	76	0	N.D.	d	
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	0.00	91	0	N.D.		
24) 1,2,3-Trichloropropane	18.70	75	57	N.D.		
25) Bromobenzene	0.00	77	0	N.D.		
26) 2-Chlorotoluene	19.66	91	1487	N.D.		
27) 4-Chlorotoluene	19.66	91	1487	N.D.		
28) Indane	20.78	117	344	N.D.		
29) Indene	0.00	115	0	N.D.		
30) 1,2,4,5-Tetramethylben...	21.61	119	272	N.D.		
31) 1,2,3,4-Tetramethylben...	21.64	119	435	N.D.		
32) 1,2,3,5-Tetramethylben...	21.99	119	445	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\24\03242323.D

Vial: 8

Acq On : 24 Mar 2023 19:08

Operator: WA

Sample : P2301250-046 (1000mL)

Inst : GCMS-16

Misc : S35-01312301

Quant Time: Mar 26 20:50:29 2023

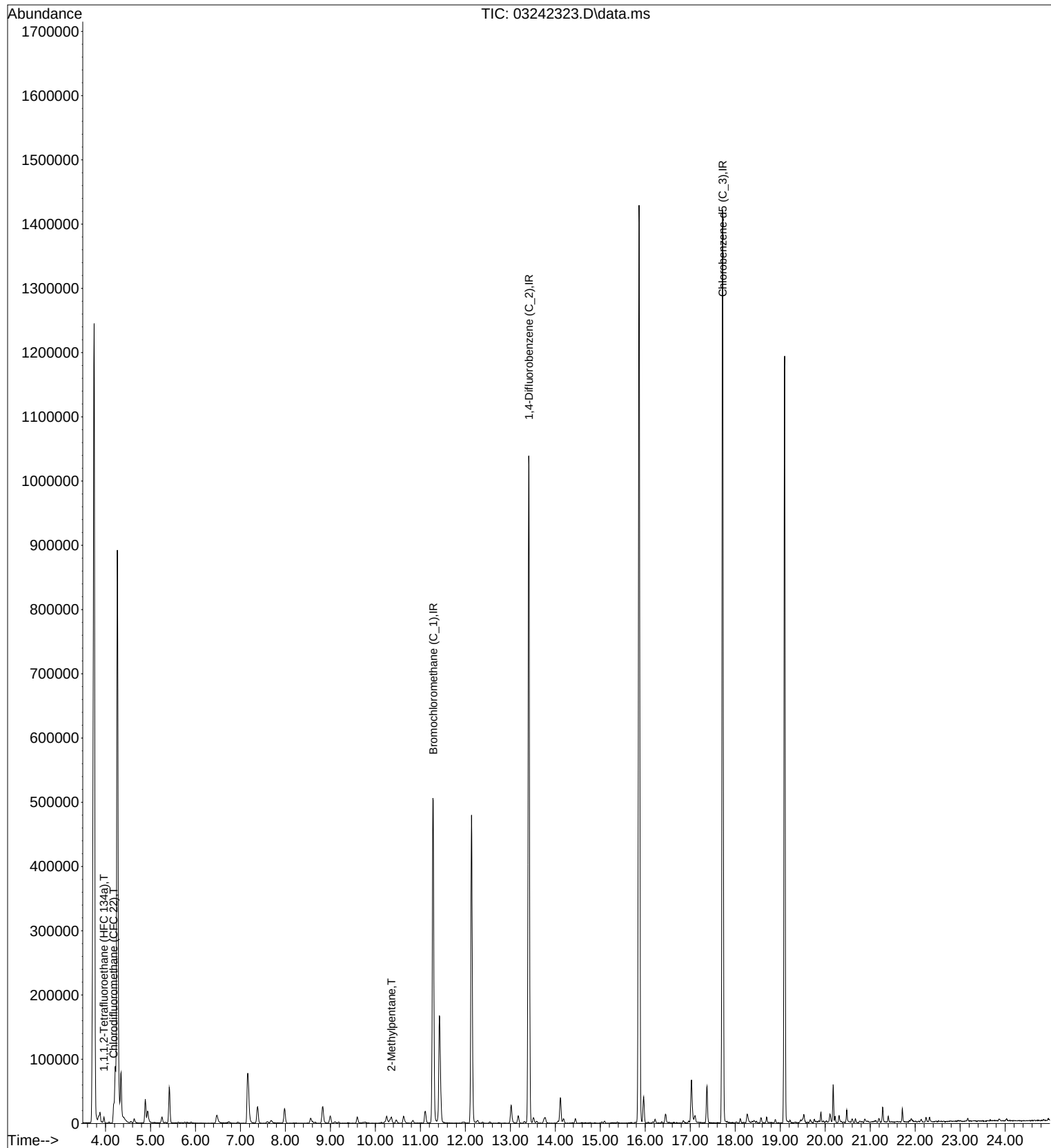
Quant Method : I:\MS16\METHODS\C16122022.M

Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD

QLast Update : Wed Dec 21 05:02:49 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG24-1

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-047

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02172

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.15 Final Pressure (psig): 3.97

Container Dilution Factor: 1.28

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.9	0.68	0.11	0.58	0.14	0.023	
74-87-3	Chloromethane	0.31	0.27	0.11	0.15	0.13	0.053	
75-01-4	Vinyl Chloride	ND	0.14	0.073	ND	0.055	0.029	
74-83-9	Bromomethane	ND	0.27	0.095	ND	0.069	0.024	
75-00-3	Chloroethane	ND	0.27	0.084	ND	0.10	0.032	
67-64-1	Acetone	3.5	6.7	1.5	1.5	2.8	0.65	J
75-69-4	Trichlorofluoromethane	1.4	0.67	0.10	0.25	0.12	0.018	
75-35-4	1,1-Dichloroethene	ND	0.14	0.095	ND	0.036	0.024	
75-09-2	Methylene Chloride	0.40	0.68	0.19	0.12	0.20	0.055	J
76-13-1	Trichlorotrifluoroethane	0.51	0.69	0.097	0.067	0.090	0.013	J
75-15-0	Carbon Disulfide	ND	1.4	0.20	ND	0.44	0.066	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	0.095	ND	0.036	0.024	
75-34-3	1,1-Dichloroethane	ND	0.14	0.10	ND	0.035	0.025	
1634-04-4	Methyl tert-Butyl Ether	ND	0.69	0.081	ND	0.19	0.022	
78-93-3	2-Butanone (MEK)	0.67	1.3	0.14	0.23	0.45	0.048	J
156-59-2	cis-1,2-Dichloroethene	0.22	0.14	0.096	0.056	0.036	0.024	
67-66-3	Chloroform	0.13	0.14	0.091	0.026	0.029	0.019	J
107-06-2	1,2-Dichloroethane	0.081	0.14	0.076	0.020	0.035	0.019	J
71-55-6	1,1,1-Trichloroethane	0.13	0.14	0.084	0.023	0.026	0.015	J
71-43-2	Benzene	0.57	0.14	0.099	0.18	0.044	0.031	
56-23-5	Carbon Tetrachloride	0.47	0.14	0.095	0.075	0.022	0.015	
110-82-7	Cyclohexane	ND	1.3	0.19	ND	0.39	0.056	
78-87-5	1,2-Dichloropropane	ND	0.14	0.084	ND	0.030	0.018	
75-27-4	Bromodichloromethane	ND	0.14	0.099	ND	0.021	0.015	
79-01-6	Trichloroethene	1.1	0.14	0.092	0.20	0.026	0.017	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG24-1

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-047

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02172

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.15 Final Pressure (psig): 3.97

Container Dilution Factor: 1.28

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.69	0.11	ND	0.15	0.023	
108-10-1	4-Methyl-2-pentanone	ND	1.4	0.093	ND	0.34	0.023	
10061-02-6	trans-1,3-Dichloropropene	ND	0.65	0.14	ND	0.14	0.031	
79-00-5	1,1,2-Trichloroethane	ND	0.14	0.069	ND	0.026	0.013	
108-88-3	Toluene	0.96	0.68	0.083	0.25	0.18	0.022	
591-78-6	2-Hexanone	0.11	1.4	0.084	0.027	0.34	0.021	J
124-48-1	Dibromochloromethane	ND	0.14	0.090	ND	0.017	0.011	
106-93-4	1,2-Dibromoethane	ND	0.14	0.079	ND	0.018	0.010	
127-18-4	Tetrachloroethene	0.097	0.14	0.088	0.014	0.021	0.013	J
108-90-7	Chlorobenzene	ND	0.68	0.091	ND	0.15	0.020	
100-41-4	Ethylbenzene	ND	0.68	0.096	ND	0.16	0.022	
179601-23-1	m,p-Xylenes	0.25	1.4	0.18	0.057	0.32	0.041	J
75-25-2	Bromoform	ND	0.69	0.14	ND	0.067	0.014	
100-42-5	Styrene	ND	0.68	0.11	ND	0.16	0.026	
95-47-6	o-Xylene	0.10	0.68	0.099	0.023	0.16	0.023	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	0.095	ND	0.021	0.014	
98-82-8	Cumene	ND	0.69	0.099	ND	0.14	0.020	
541-73-1	1,3-Dichlorobenzene	ND	0.68	0.10	ND	0.11	0.017	
106-46-7	1,4-Dichlorobenzene	ND	0.68	0.10	ND	0.11	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.69	0.10	ND	0.12	0.017	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.4	0.13	ND	0.15	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	1.4	0.17	ND	0.19	0.022	
79-20-9	Methyl Acetate	ND	0.64	0.31	ND	0.21	0.10	X
108-87-2	Methylcyclohexane	ND	0.64	0.33	ND	0.16	0.083	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS16\DATA\2023_03\24\03242324.D
 Acq On : 24 Mar 2023 19:42
 Sample : P2301250-047 (1000mL)
 Misc : S35-01312301

Vial: 9
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 09:09:27 2023

Quant Method : I:\MS16\METHODS\R16122022.M

DA 3/27/23

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	200601	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	929152	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.72	54	208123	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	364187	13.652	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	109.20%	
57) Toluene-d8 (SS2)	15.86	98	1075419	11.803	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	94.40%	
73) Bromofluorobenzene (SS3)	19.10	174	330040	11.614	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	92.88%	

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	4.35	85	66781	2.227	ng	100
4) Chloromethane	4.64	50	6739	0.240	ng	96
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	1557	0.093	ng	85
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.34	54	407	N.D.		
8) Bromomethane	5.79	94	253	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.46	45	35369	1.832	ng	95
11) Acetonitrile	6.74	41	2746	0.057	ng	# 43
12) Acrolein	6.95	56	1374	0.101	ng	99
13) Acetone	7.15	58	40137	2.719	ng	# 77
14) Trichlorofluoromethane	7.38	101	30345	1.097	ng	99
15) 2-Propanol (Isopropanol)	7.68	45	16913	0.329	ng	93
16) Acrylonitrile	0.00	53	0	N.D.	d	
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.		
19) Methylene Chloride	8.56	84	5084	0.312	ng	90
20) 3-Chloro-1-propene (Al...	8.65	41	302	N.D.		
21) Trichlorotrifluoroethane	9.00	151	5512	0.400	ng	90
22) Carbon Disulfide	8.85	76	880	N.D.		
23) trans-1,2-Dichloroethene	9.84	61	179	N.D.		
24) 1,1-Dichloroethane	10.09	63	887	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	10.62	72	5587	0.522	ng	# 89
28) cis-1,2-Dichloroethene	11.11	61	4243	0.173	ng	98
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	11.42	61	142574	20.366	ng	97
31) n-Hexane	11.40	57	4664	0.133	ng	93
32) Chloroform	11.45	83	2701	0.101	ng	97
34) Tetrahydrofuran (THF)	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	12.26	62	1368	0.063	ng	92
38) 1,1,1-Trichloroethane	12.53	97	2492	0.099	ng	96
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.02	78	29094	0.445	ng	98
42) Carbon Tetrachloride	13.18	117	7818	0.368	ng	95
43) Cyclohexane	13.31	84	2169	0.078	ng	93
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	13.87	63	163	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	14.12	130	15123	0.850	ng	98
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	14.18	57	7720	0.087	ng	70
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS16\DATA\2023_03\24\03242324.D
 Acq On : 24 Mar 2023 19:42
 Sample : P2301250-047 (1000mL)
 Misc : S35-01312301

Vial: 9
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 09:09:27 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

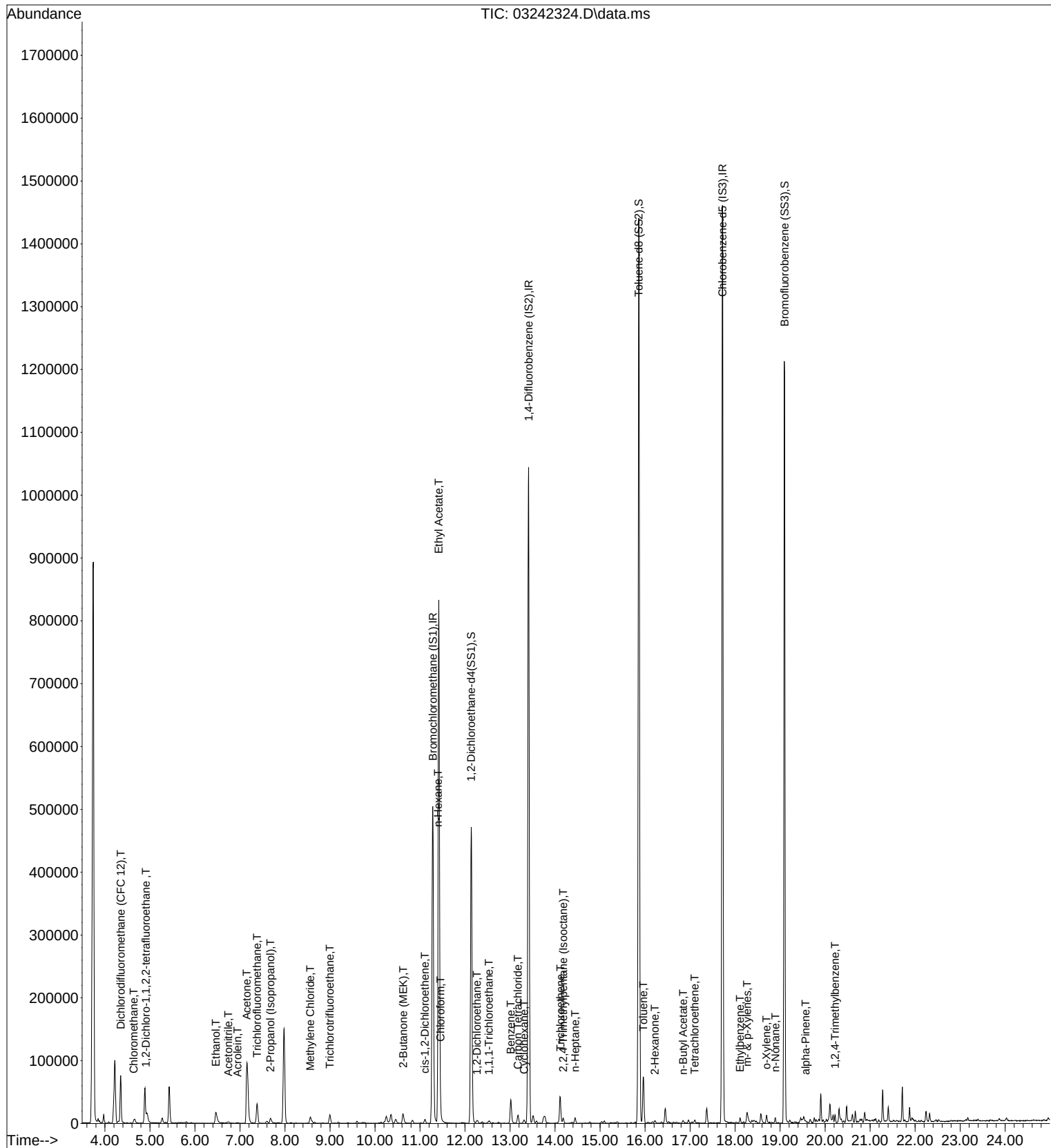
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.45	71	1969	0.103	ng	89
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	15.03	58	612	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.96	91	59668	0.748	ng	99
59) 2-Hexanone	16.22	43	3668	0.087	ng	83
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.84	43	4054	0.084	ng	90
63) n-Octane	16.96	57	849	N.D.		
64) Tetrachloroethene	17.10	166	1535	0.076	ng	93
65) Chlorobenzene	17.76	112	228	N.D.		
66) Ethylbenzene	18.11	91	6658	0.074	ng	96
67) m- & p-Xylenes	18.27	91	13701	0.192	ng	97
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.60	104	1920	N.D.		
70) o-Xylene	18.70	91	5480	0.078	ng	97
71) n-Nonane	18.90	43	3561	0.071	ng	86
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	19.22	105	782	N.D.		
75) alpha-Pinene	19.57	93	1161	0.051	ng	# 1
76) n-Propylbenzene	19.67	91	1925	N.D.		
77) 3-Ethyltoluene	20.22	105	5104	No Calib	#	
78) 4-Ethyltoluene	19.80	105	1564	N.D.		
79) 1,3,5-Trimethylbenzene	19.86	105	1689	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.22	105	5104	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.22	105	5104	0.071	ng	86
83) n-Decane	20.31	58	266	No Calib	#	
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	20.41	146	140	N.D.		
86) 1,4-Dichlorobenzene	20.41	146	140	N.D.		
87) sec-Butylbenzene	20.46	105	475	N.D.		
88) 4-Isopropyltoluene (p-...	20.59	119	1600	N.D.		
89) 1,2,3-Trimethylbenzene	20.22	105	5104	No Calib	#	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	20.73	68	665	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	21.40	58	263	No Calib	#	
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	22.33	128	2499	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	18.19	55	503	No Calib	#	
99) tert-Butylbenzene	20.23	119	713	N.D.		
100) n-Butylbenzene	20.95	91	1449	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\24\03242324.D
Acq On : 24 Mar 2023 19:42
Sample : P2301250-047 (1000mL)
Misc : S35-01312301

Vial: 9
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 09:09:27 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



Data File : I:\MS16\DATA\2023_03\24\03242324.D
 Acq On : 24 Mar 2023 19:42
 Sample : P2301250-047 (1000mL)
 Misc : S35-01312301

Vial: 9
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 09:09:27 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

107A 3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	200601	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	929152	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.72	54	208123	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	364187	13.652	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	109.20%	
57) Toluene-d8 (SS2)	15.86	98	1075419	11.803	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	94.40%	
73) Bromofluorobenzene (SS3)	19.10	174	330040	11.614	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	92.88%	

Target Compounds

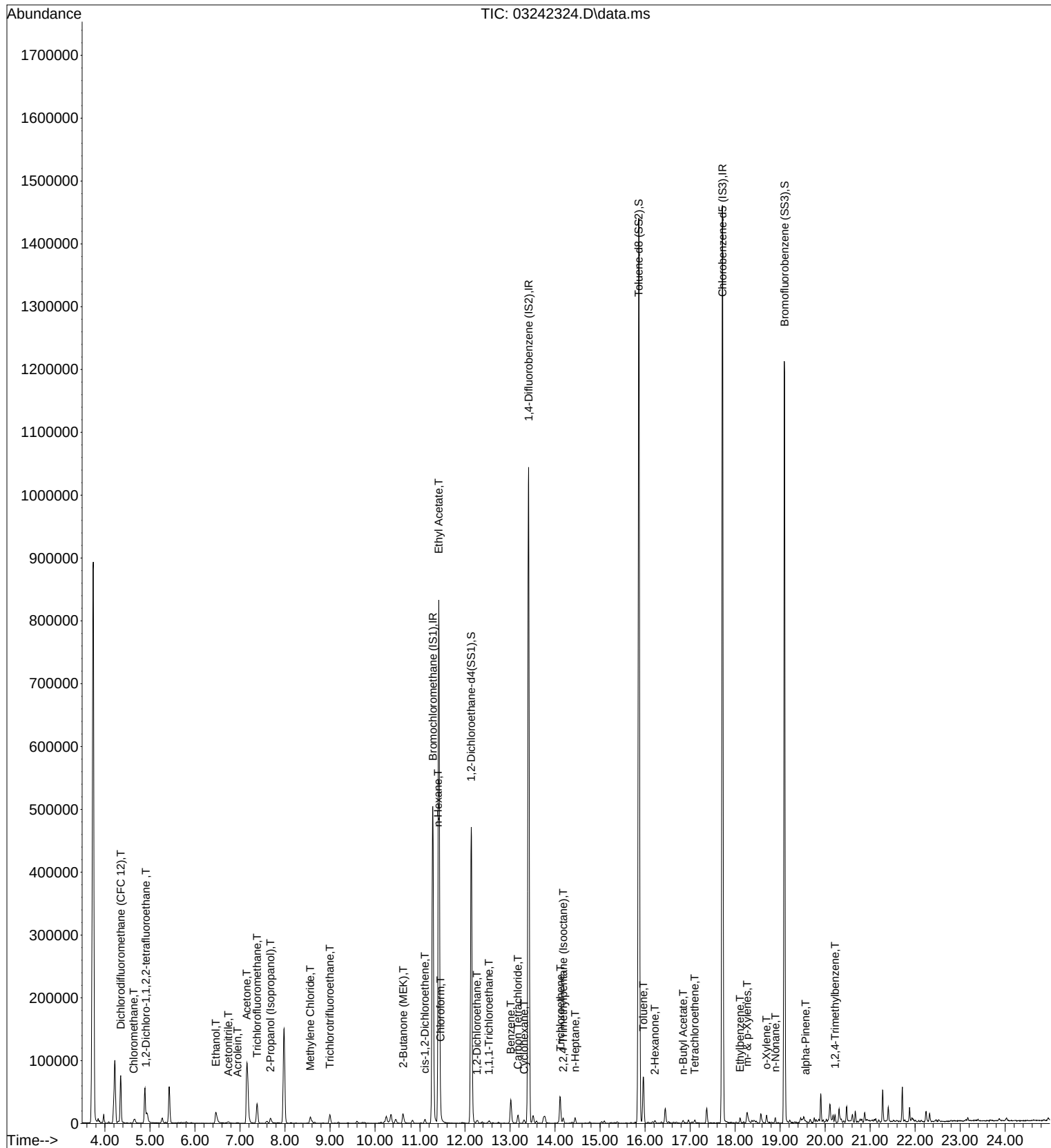
						Qvalue
3) Dichlorodifluoromethan...	4.35	85	66781	2.227	ng	100
4) Chloromethane	4.64	50	6739	0.240	ng	96
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	1557	0.093	ng	85
10) Ethanol	6.46	45	35369	1.832	ng	95
11) Acetonitrile	6.74	41	2746	0.057	ng	# 43
12) Acrolein	6.95	56	1374	0.101	ng	99
13) Acetone	7.15	58	40137	2.719	ng	# 77
14) Trichlorofluoromethane	7.38	101	30345	1.097	ng	99
15) 2-Propanol (Isopropanol)	7.68	45	16913	0.329	ng	93
19) Methylene Chloride	8.56	84	5084	0.312	ng	90
21) Trichlorotrifluoroethane	9.00	151	5512	0.400	ng	90
27) 2-Butanone (MEK)	10.62	72	5587	0.522	ng	# 89
28) cis-1,2-Dichloroethene	11.11	61	4243	0.173	ng	98
30) Ethyl Acetate	11.42	61	142574	20.366	ng	97
31) n-Hexane	11.40	57	4664	0.133	ng	93
32) Chloroform	11.45	83	2701	0.101	ng	97
36) 1,2-Dichloroethane	12.26	62	1368	0.063	ng	92
38) 1,1,1-Trichloroethane	12.53	97	2492	0.099	ng	96
41) Benzene	13.02	78	29094	0.445	ng	98
42) Carbon Tetrachloride	13.18	117	7818	0.368	ng	95
43) Cyclohexane	13.31	84	2169	0.078	ng	93
47) Trichloroethene	14.12	130	15123	0.850	ng	98
49) 2,2,4-Trimethylpentane...	14.18	57	7720	0.087	ng	70
51) n-Heptane	14.45	71	1969	0.103	ng	89
58) Toluene	15.96	91	59668	0.748	ng	99
59) 2-Hexanone	16.22	43	3668	0.087	ng	83
62) n-Butyl Acetate	16.84	43	4054	0.084	ng	90
64) Tetrachloroethene	17.10	166	1535	0.076	ng	93
66) Ethylbenzene	18.11	91	6658	0.074	ng	96
67) m- & p-Xylenes	18.27	91	13701	0.192	ng	97
70) o-Xylene	18.70	91	5480	0.078	ng	97
71) n-Nonane	18.90	43	3561	0.071	ng	86
75) alpha-Pinene	19.57	93	1161	0.051	ng	# 1
82) 1,2,4-Trimethylbenzene	20.22	105	5104	0.071	ng	86

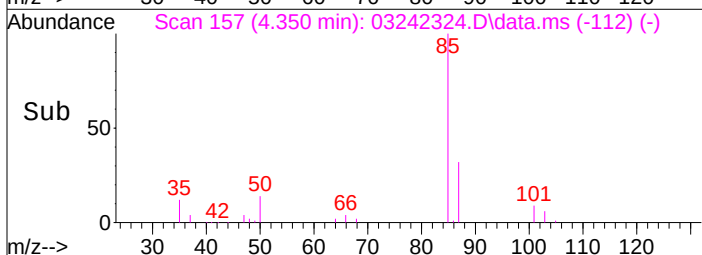
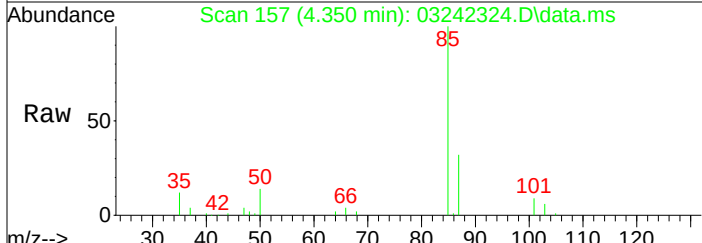
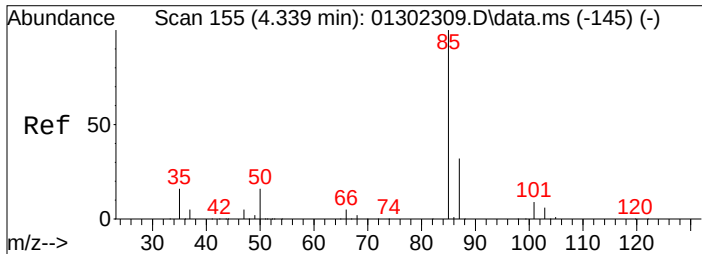
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS16\DATA\2023_03\24\03242324.D
Acq On : 24 Mar 2023 19:42
Sample : P2301250-047 (1000mL)
Misc : S35-01312301

Vial: 9
Operator: WA
Inst : GCMS-16

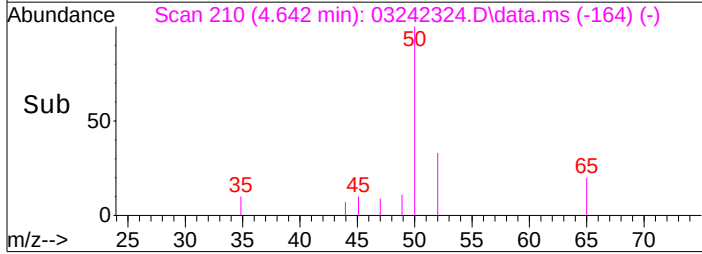
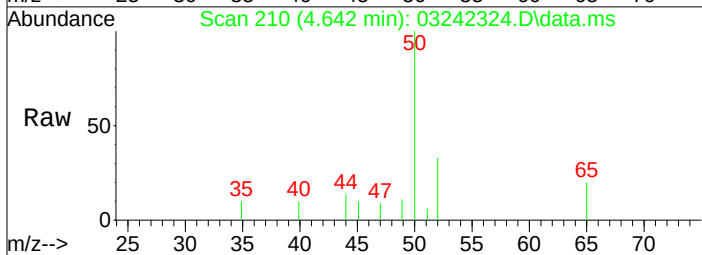
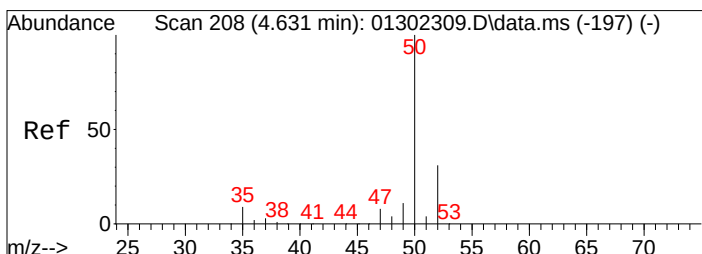
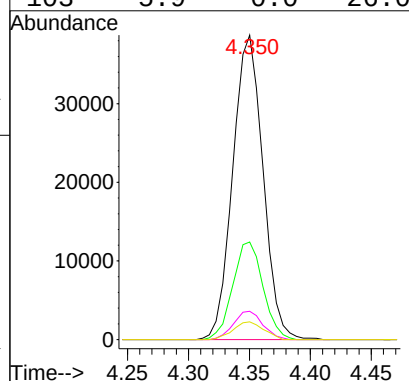
Quant Time: Mar 27 09:09:27 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M





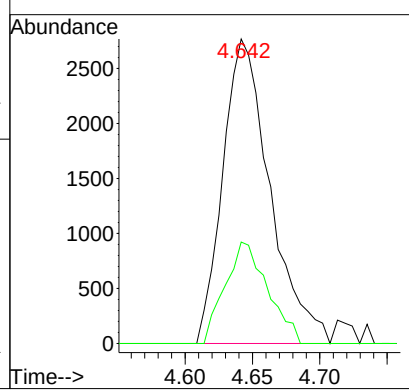
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 2.23 ng
 RT: 4.35 min Scan# 157
 Delta R.T. 0.000 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 19:42

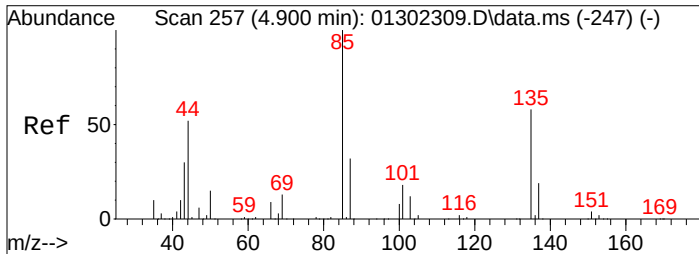
Tgt Ion:	85	Resp:	66781
Ion Ratio		Lower	Upper
85	100		
87	32.0	12.1	52.1
101	9.1	0.0	29.3
103	5.9	0.0	26.0



#4
 Chloromethane
 Concen: 0.24 ng
 RT: 4.64 min Scan# 210
 Delta R.T. 0.006 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 19:42

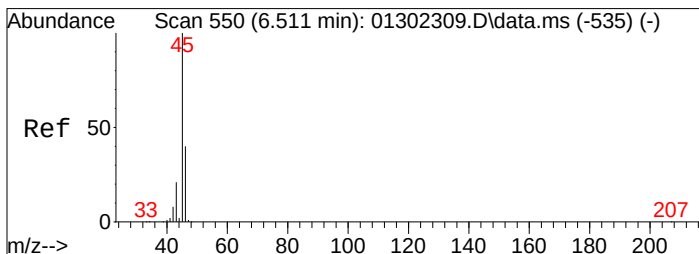
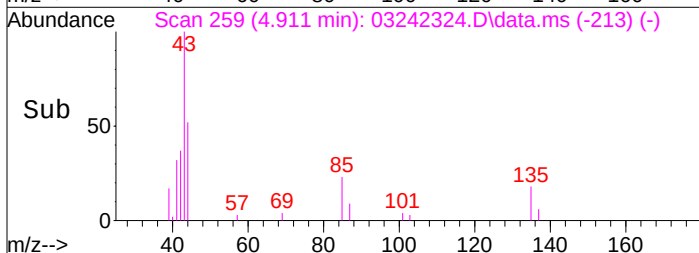
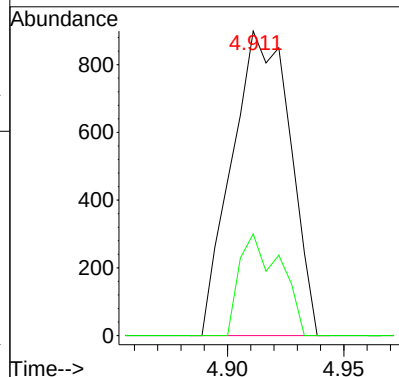
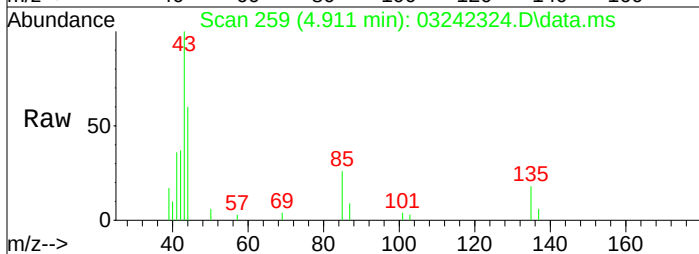
Tgt Ion:	50	Resp:	6739
Ion Ratio		Lower	Upper
50	100		
52	30.0	12.2	52.2





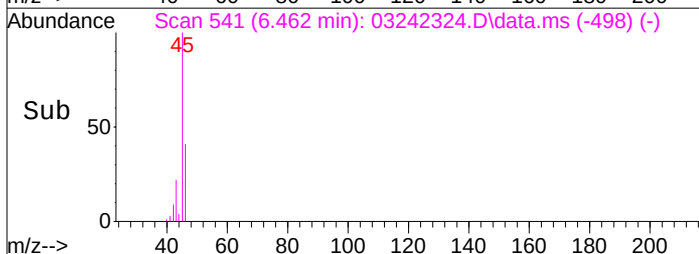
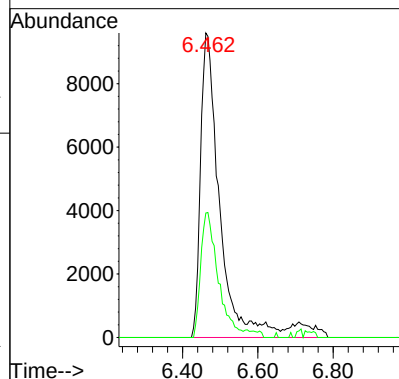
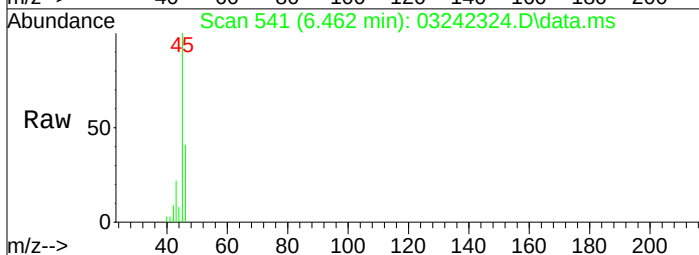
#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.09 ng
 RT: 4.91 min Scan# 259
 Delta R.T. 0.006 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 19:42

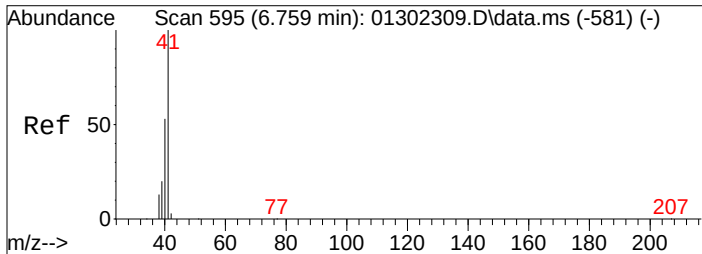
Tgt Ion: 135 Resp: 1557
 Ion Ratio Lower Upper
 135 100
 137 23.5 12.0 52.0



#10
 Ethanol
 Concen: 1.83 ng
 RT: 6.46 min Scan# 541
 Delta R.T. -0.016 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 19:42

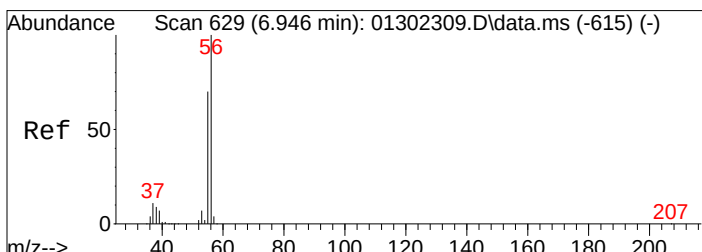
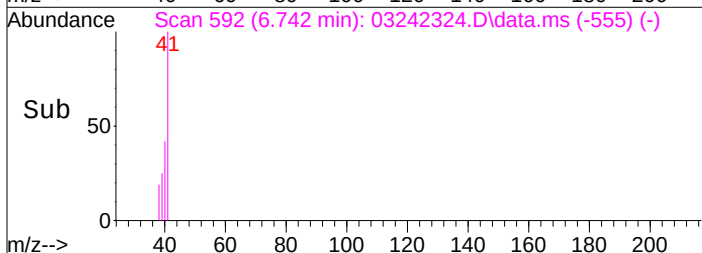
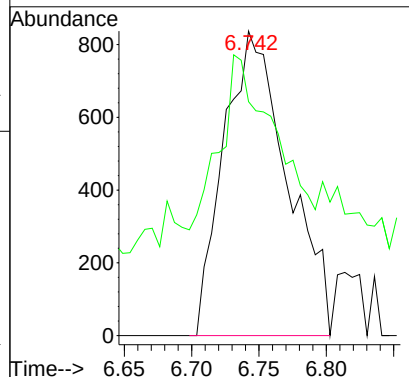
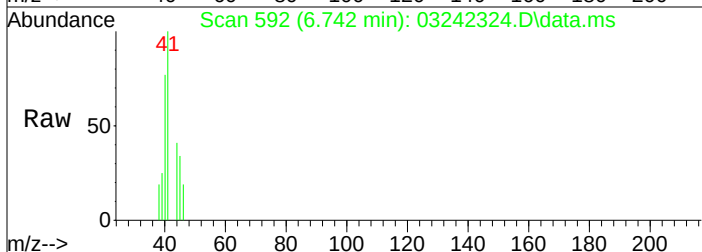
Tgt Ion: 45 Resp: 35369
 Ion Ratio Lower Upper
 45 100
 46 37.2 20.5 60.5





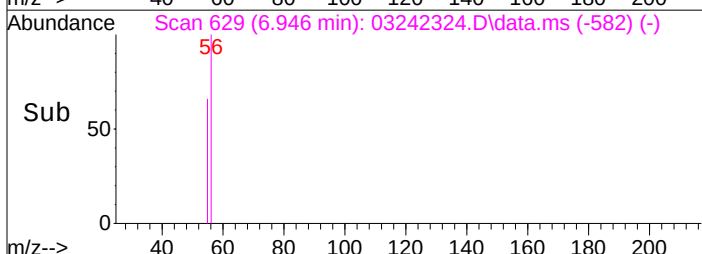
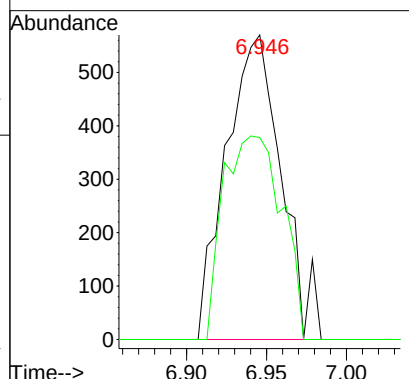
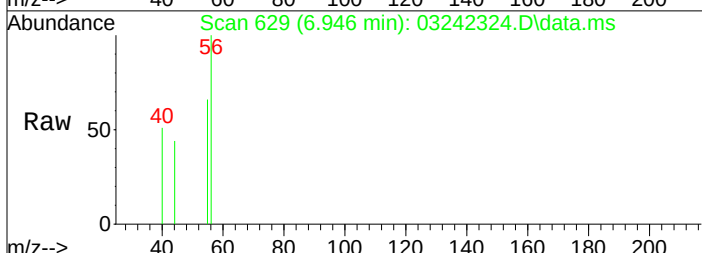
#11
Acetonitrile
Concen: 0.06 ng
RT: 6.74 min Scan# 592
Delta R.T. 0.005 min
Lab File: 03242324.D
Acq: 24 Mar 2023 19:42

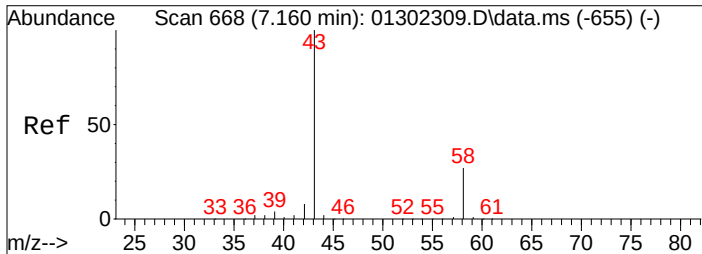
Tgt Ion: 41 Resp: 2746
Ion Ratio Lower Upper
41 100
40 92.6 32.4 72.4#



#12
Acrolein
Concen: 0.10 ng
RT: 6.95 min Scan# 629
Delta R.T. 0.011 min
Lab File: 03242324.D
Acq: 24 Mar 2023 19:42

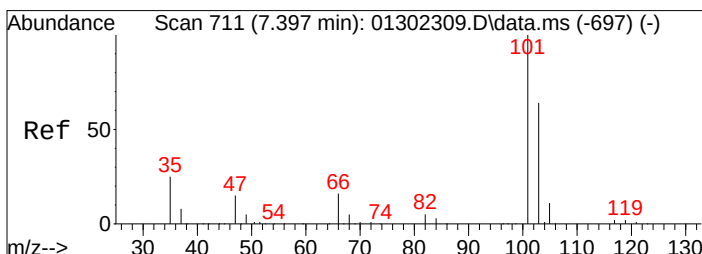
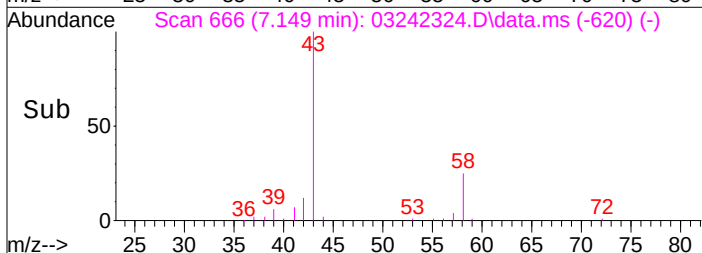
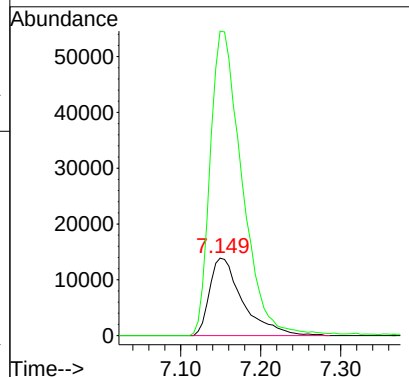
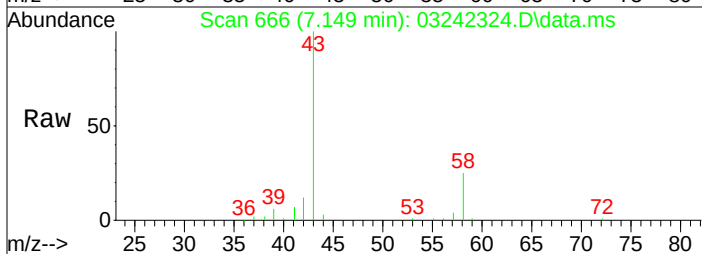
Tgt Ion: 56 Resp: 1374
Ion Ratio Lower Upper
56 100
55 70.8 49.9 89.9





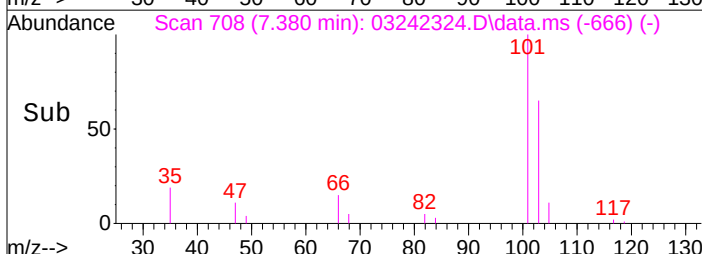
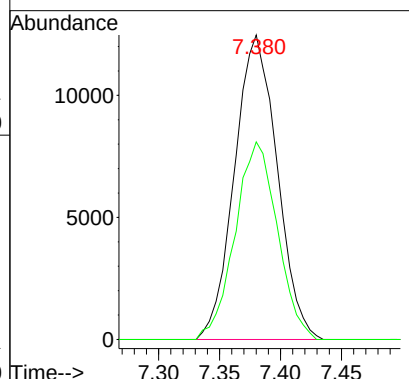
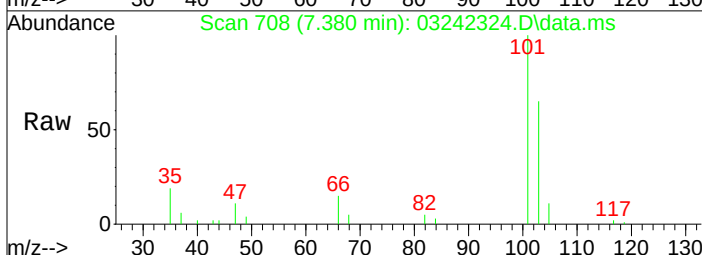
#13
 Acetone
 Concen: 2.72 ng
 RT: 7.15 min Scan# 666
 Delta R.T. 0.005 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 19:42

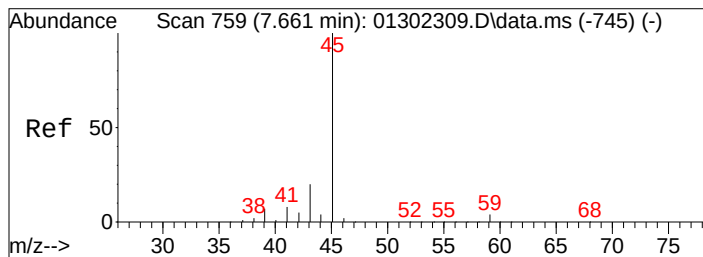
Tgt Ion:	58	Resp:	40137
Ion Ratio	Lower	Upper	
58	100		
43	377.1	298.5	358.5#



#14
 Trichlorofluoromethane
 Concen: 1.10 ng
 RT: 7.38 min Scan# 708
 Delta R.T. -0.016 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 19:42

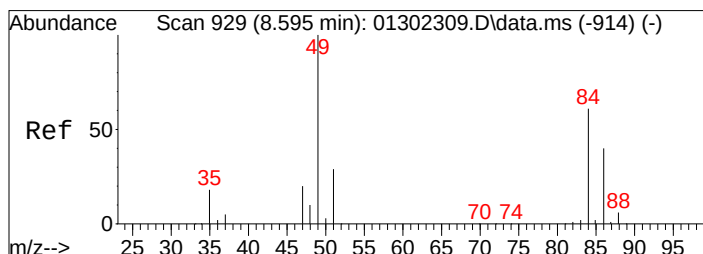
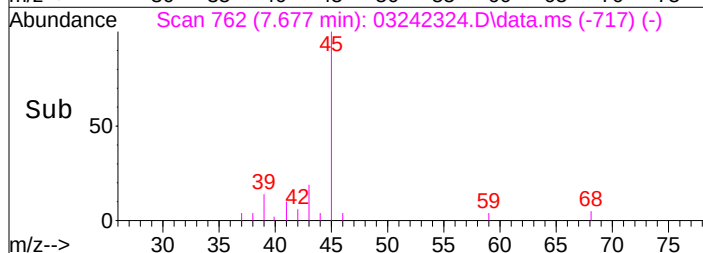
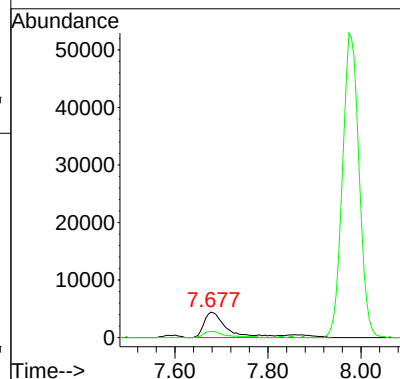
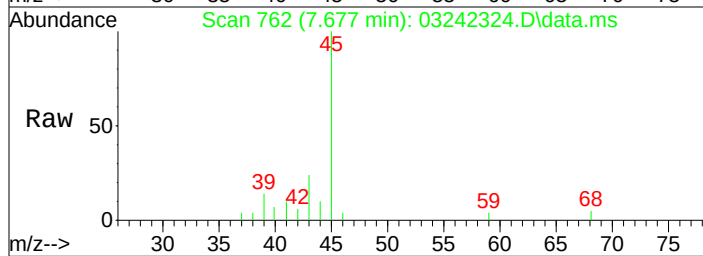
Tgt Ion:	101	Resp:	30345
Ion Ratio	Lower	Upper	
101	100		
103	64.3	44.8	84.8





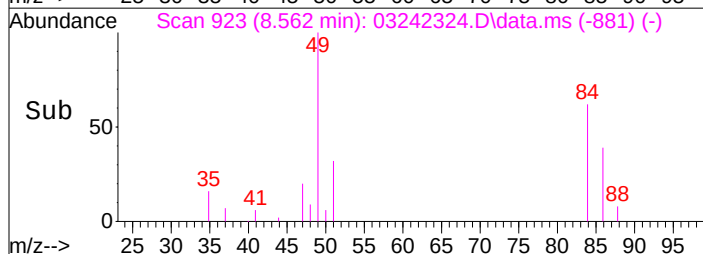
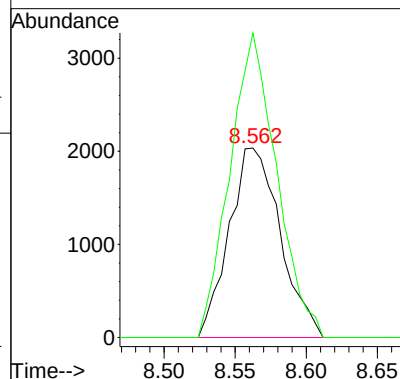
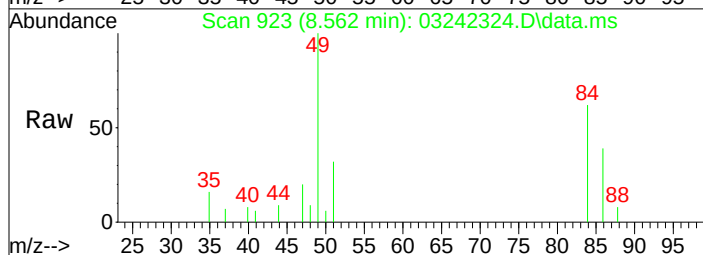
#15
2-Propanol (Isopropanol)
Concen: 0.33 ng
RT: 7.68 min Scan# 762
Delta R.T. -0.003 min
Lab File: 03242324.D
Acq: 24 Mar 2023 19:42

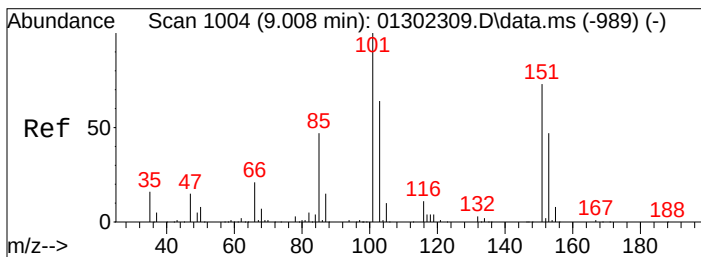
Tgt Ion: 45 Resp: 16913
Ion Ratio Lower Upper
45 100
43 21.1 0.0 37.9



#19
Methylene Chloride
Concen: 0.31 ng
RT: 8.56 min Scan# 923
Delta R.T. -0.016 min
Lab File: 03242324.D
Acq: 24 Mar 2023 19:42

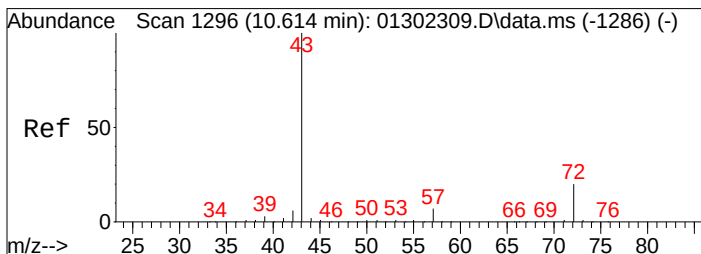
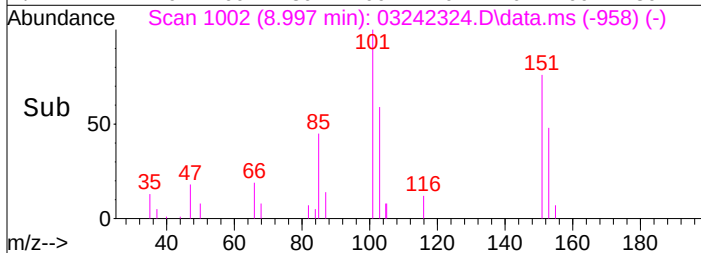
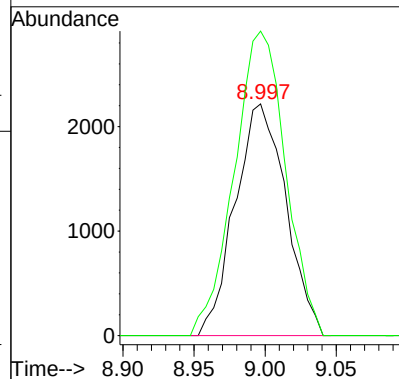
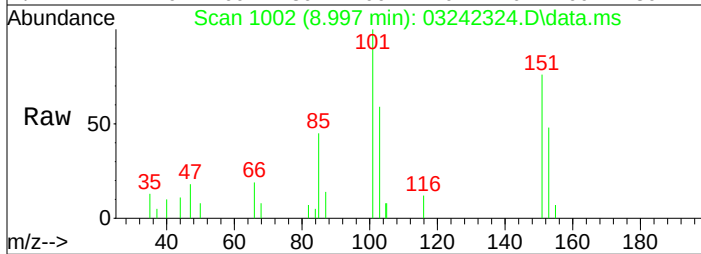
Tgt Ion: 84 Resp: 5084
Ion Ratio Lower Upper
84 100
49 147.1 135.0 185.0





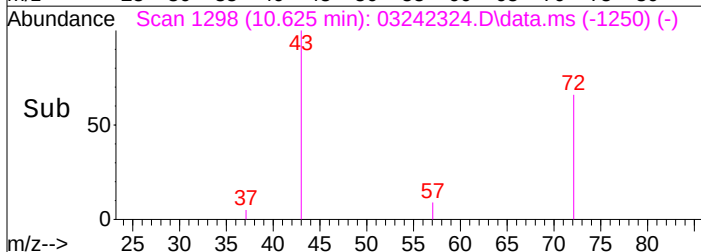
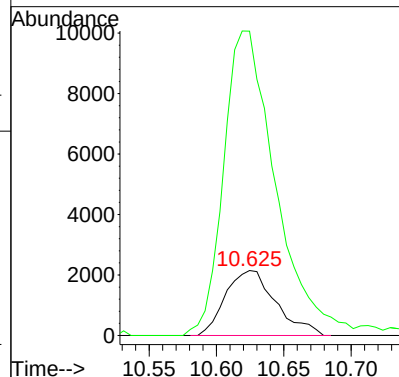
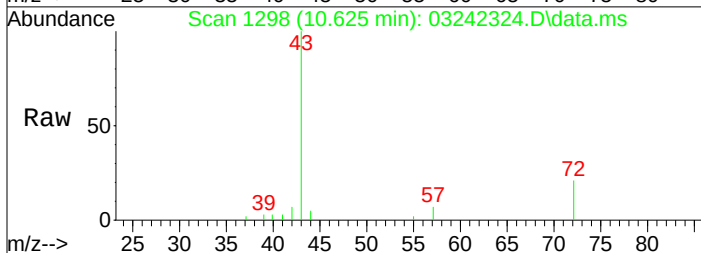
#21
 Trichlorotrifluoroethane
 Concen: 0.40 ng
 RT: 9.00 min Scan# 1002
 Delta R.T. -0.005 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 19:42

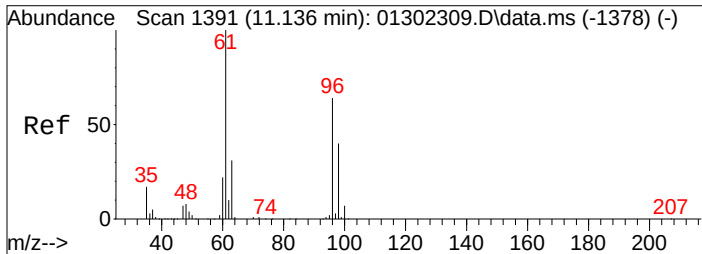
Tgt Ion: 151 Resp: 5512
 Ion Ratio Lower Upper
 151 100
 101 133.0 101.5 141.5



#27
 2-Butanone (MEK)
 Concen: 0.52 ng
 RT: 10.62 min Scan# 1298
 Delta R.T. 0.017 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 19:42

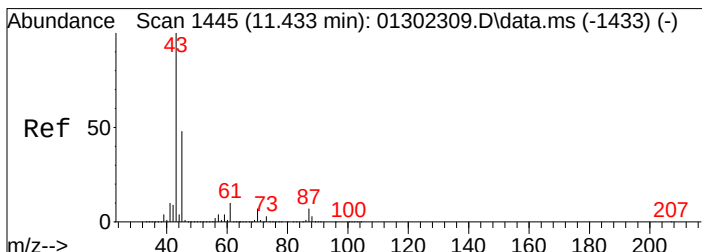
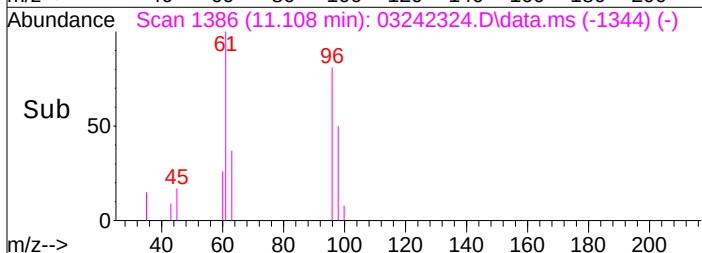
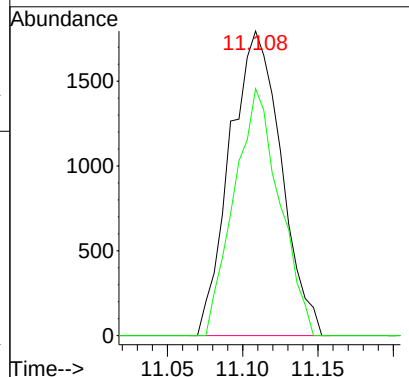
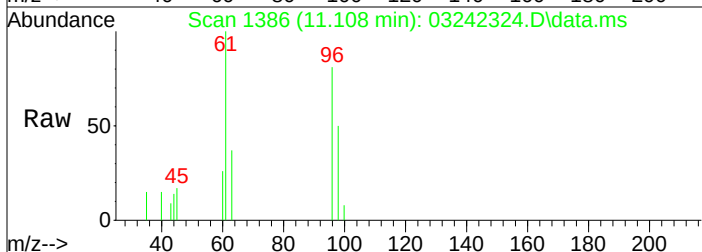
Tgt Ion: 72 Resp: 5587
 Ion Ratio Lower Upper
 72 100
 43 498.0 449.4 489.4#





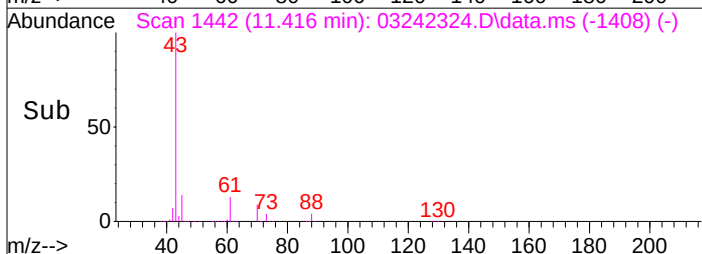
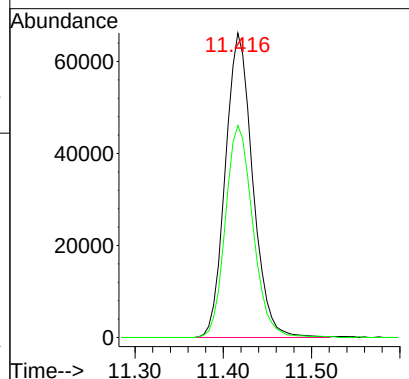
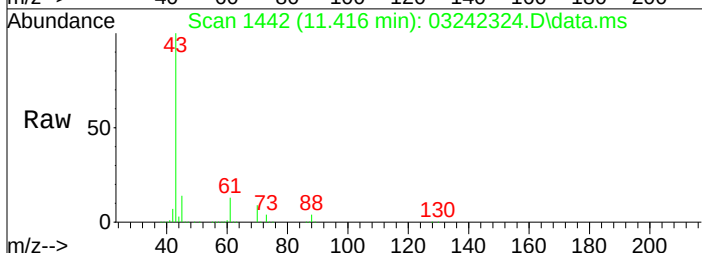
#28
 cis-1,2-Dichloroethene
 Concen: 0.17 ng
 RT: 11.11 min Scan# 1386
 Delta R.T. -0.017 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 19:42

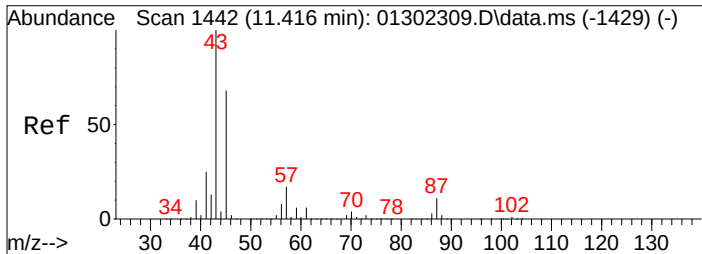
Tgt Ion:	61	Resp:	4243
Ion Ratio	Lower	Upper	
61	100		
96	71.9	49.9	89.9



#30
 Ethyl Acetate
 Concen: 20.37 ng
 RT: 11.42 min Scan# 1442
 Delta R.T. -0.011 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 19:42

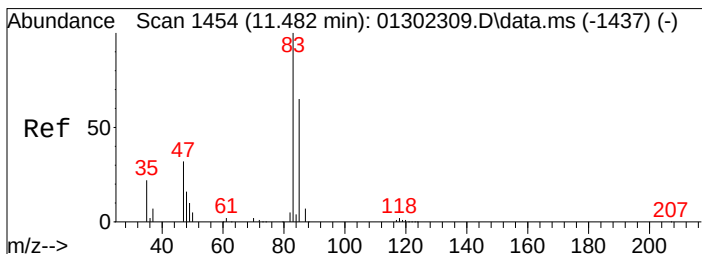
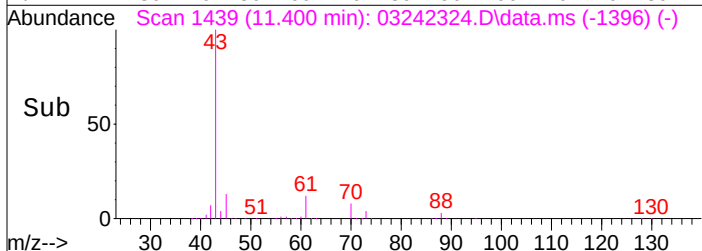
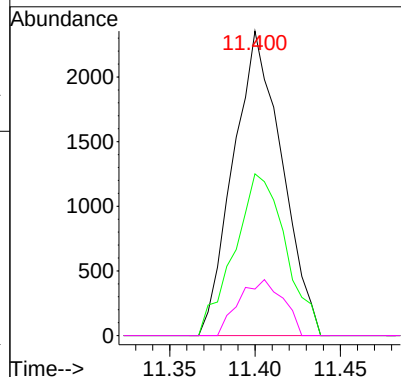
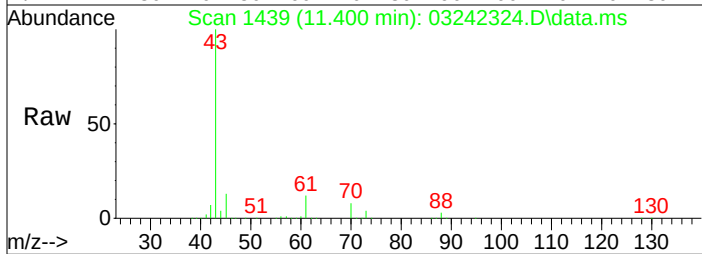
Tgt Ion:	61	Resp:	142574
Ion Ratio	Lower	Upper	
61	100		
70	70.1	52.8	92.8





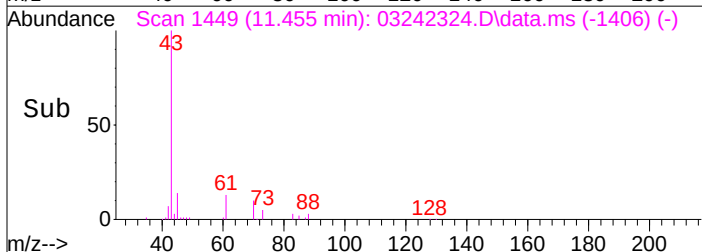
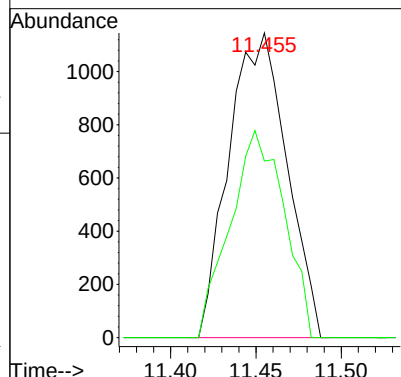
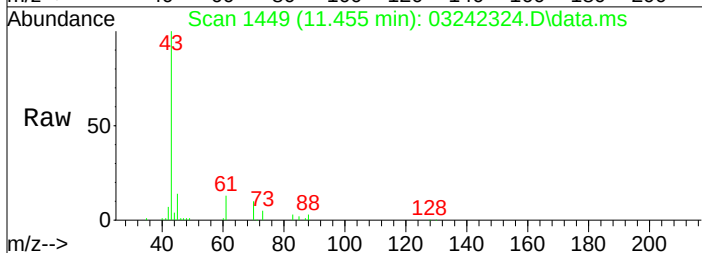
#31
n-Hexane
Concen: 0.13 ng
RT: 11.40 min Scan# 1439
Delta R.T. -0.011 min
Lab File: 03242324.D
Acq: 24 Mar 2023 19:42

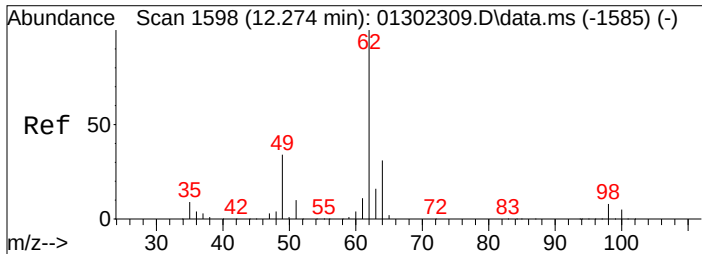
Tgt Ion:	57	Resp:	4664
Ion Ratio		Lower	Upper
57	100		
56	56.0	39.9	59.9
86	16.7	12.3	18.5



#32
Chloroform
Concen: 0.10 ng
RT: 11.45 min Scan# 1449
Delta R.T. -0.011 min
Lab File: 03242324.D
Acq: 24 Mar 2023 19:42

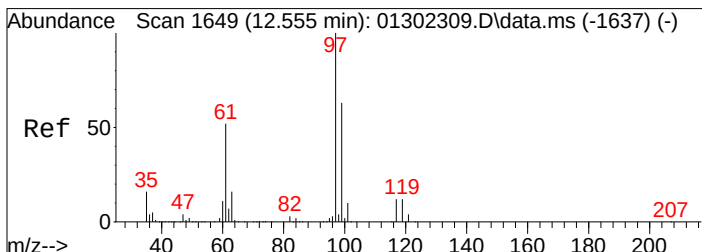
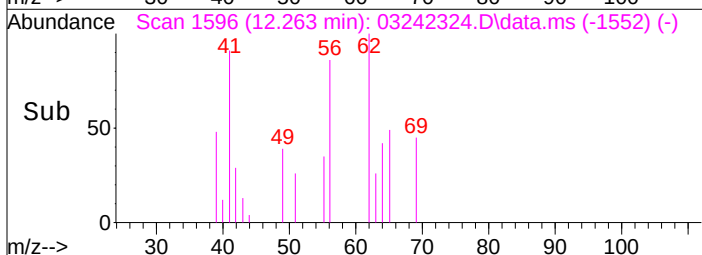
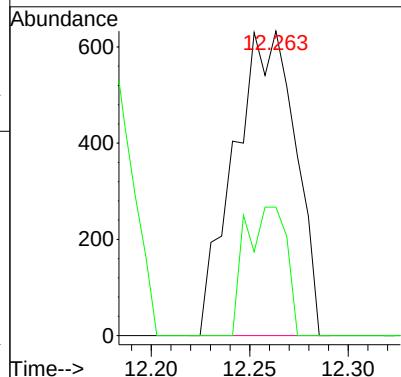
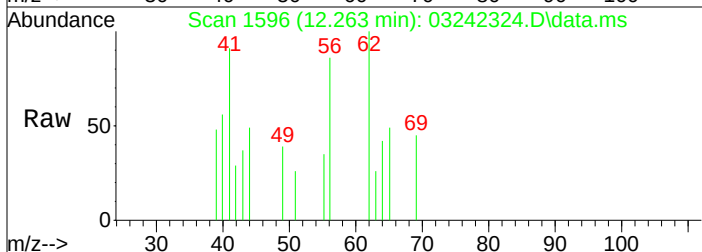
Tgt Ion:	83	Resp:	2701
Ion Ratio		Lower	Upper
83	100		
85	63.4	45.5	85.5





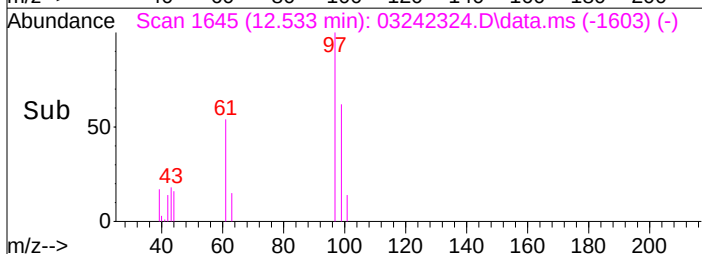
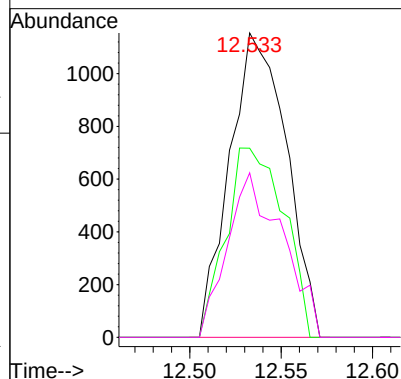
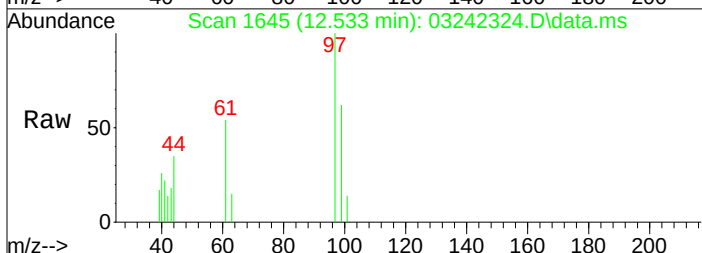
#36
 1,2-Dichloroethane
 Concen: 0.06 ng
 RT: 12.26 min Scan# 1596
 Delta R.T. -0.005 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 19:42

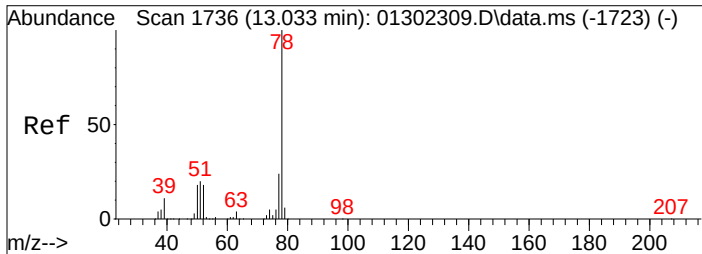
Tgt Ion: 62 Resp: 1368
 Ion Ratio Lower Upper
 62 100
 64 28.1 12.5 52.5



#38
 1,1,1-Trichloroethane
 Concen: 0.10 ng
 RT: 12.53 min Scan# 1645
 Delta R.T. -0.016 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 19:42

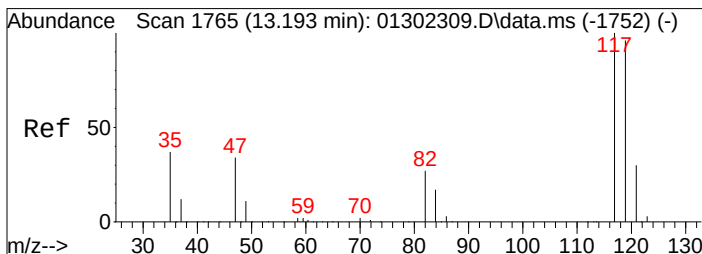
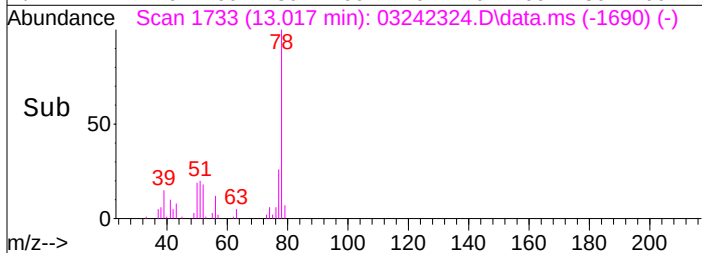
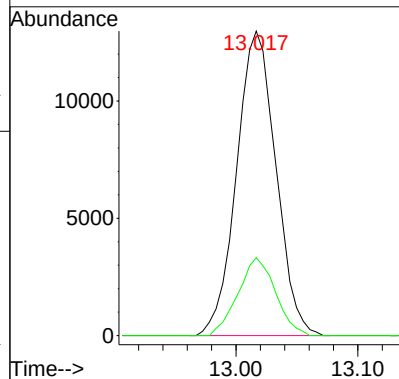
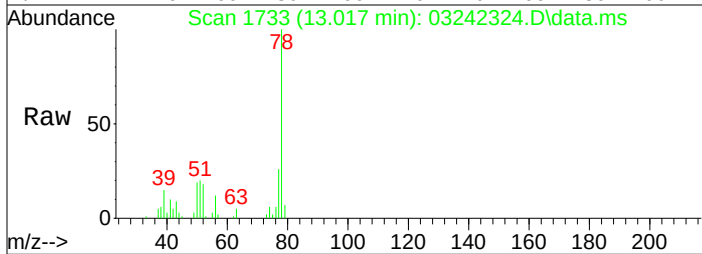
Tgt Ion: 97 Resp: 2492
 Ion Ratio Lower Upper
 97 100
 99 63.5 44.0 84.0
 61 52.5 26.8 66.8





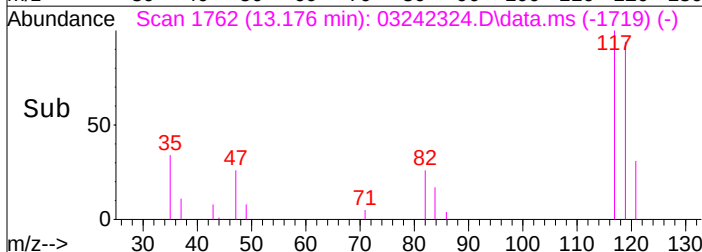
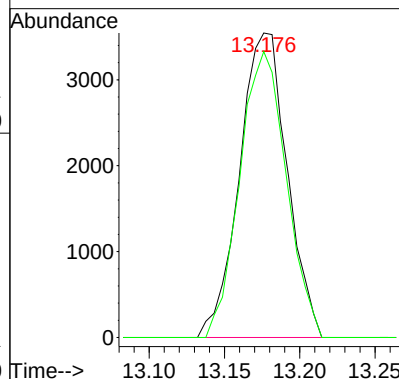
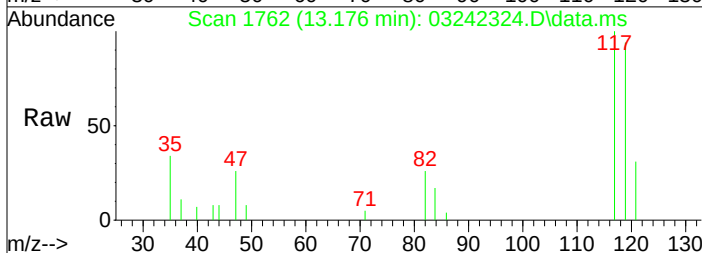
#41
Benzene
Concen: 0.44 ng
RT: 13.02 min Scan# 1733
Delta R.T. -0.011 min
Lab File: 03242324.D
Acq: 24 Mar 2023 19:42

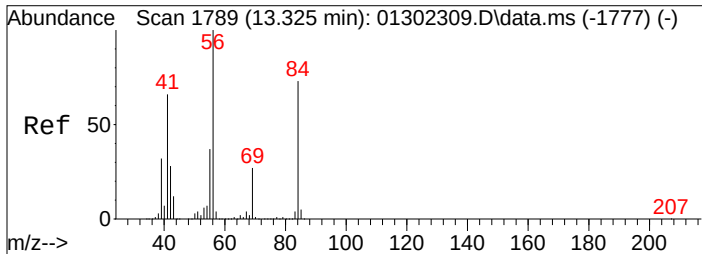
Tgt Ion: 78 Resp: 29094
Ion Ratio Lower Upper
78 100
77 24.4 3.3 43.3



#42
Carbon Tetrachloride
Concen: 0.37 ng
RT: 13.18 min Scan# 1762
Delta R.T. -0.011 min
Lab File: 03242324.D
Acq: 24 Mar 2023 19:42

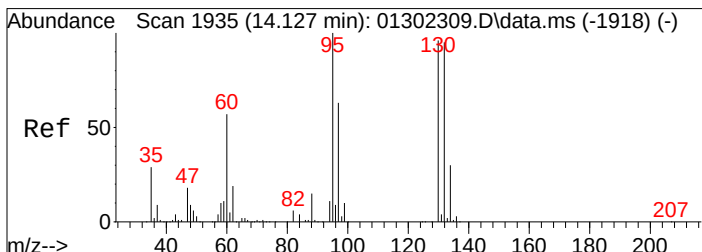
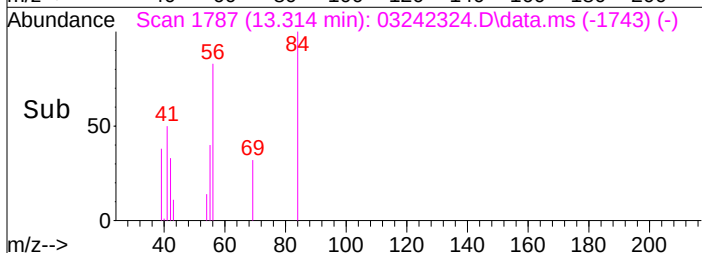
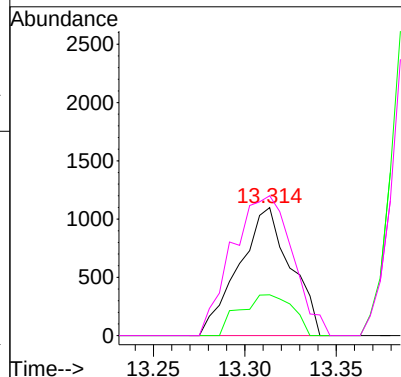
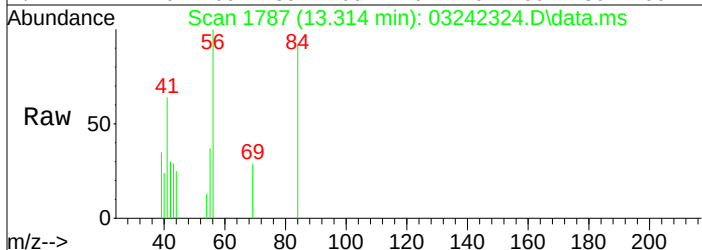
Tgt Ion: 117 Resp: 7818
Ion Ratio Lower Upper
117 100
119 91.6 76.2 116.2





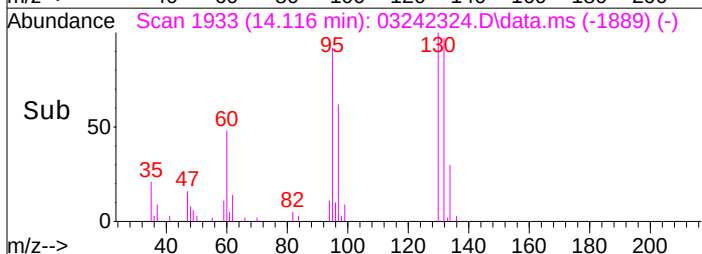
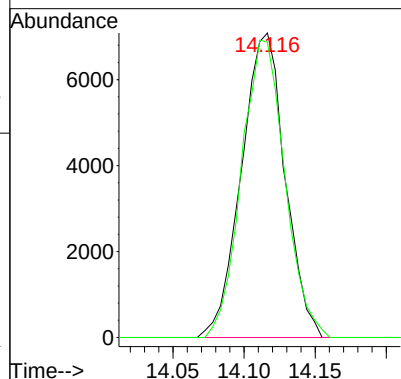
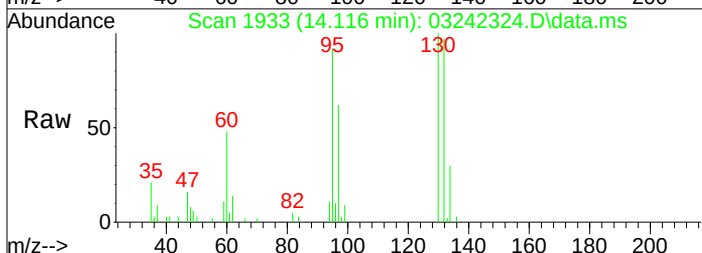
#43
Cyclohexane
Concen: 0.08 ng
RT: 13.31 min Scan# 1787
Delta R.T. -0.005 min
Lab File: 03242324.D
Acq: 24 Mar 2023 19:42

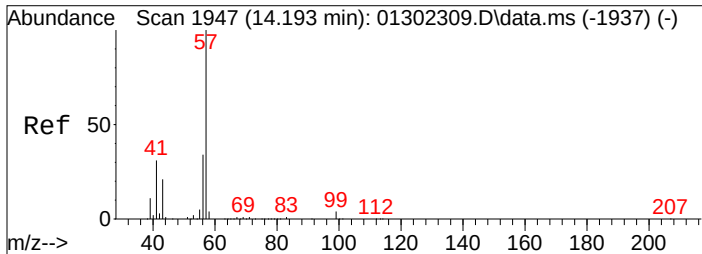
Tgt Ion:	84	Resp:	2169
Ion Ratio		Lower	Upper
84	100		
69	32.3	16.2	56.2
56	127.0	115.2	155.2



#47
Trichloroethene
Concen: 0.85 ng
RT: 14.12 min Scan# 1933
Delta R.T. -0.005 min
Lab File: 03242324.D
Acq: 24 Mar 2023 19:42

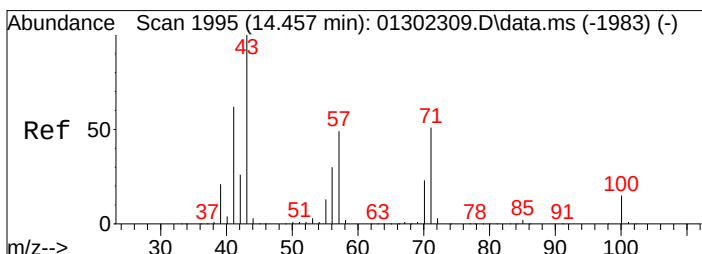
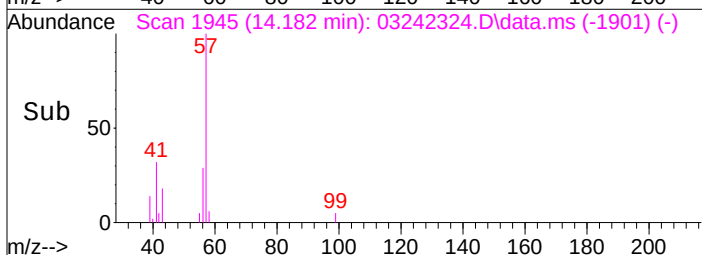
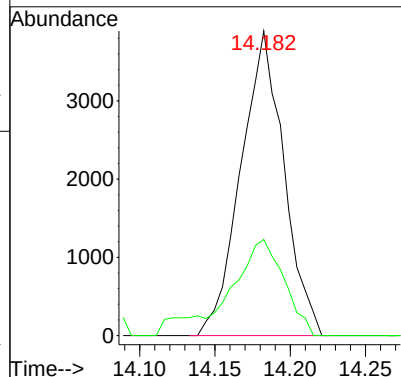
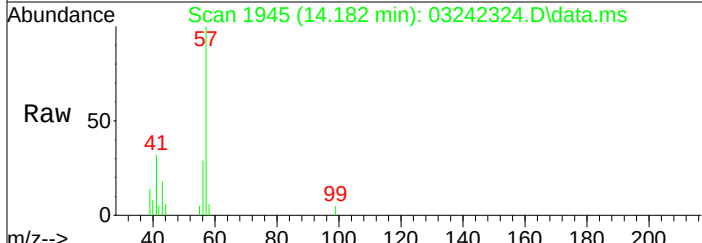
Tgt Ion:	130	Resp:	15123
Ion Ratio		Lower	Upper
130	100		
132	97.1	78.7	118.7





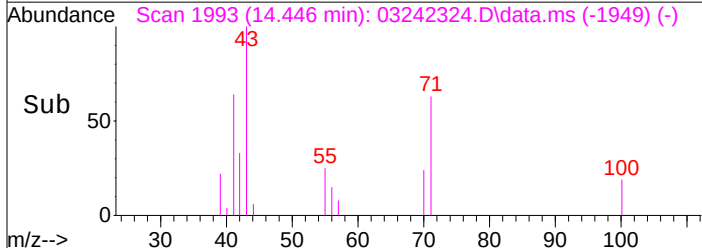
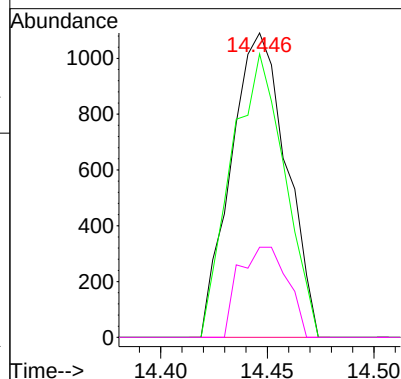
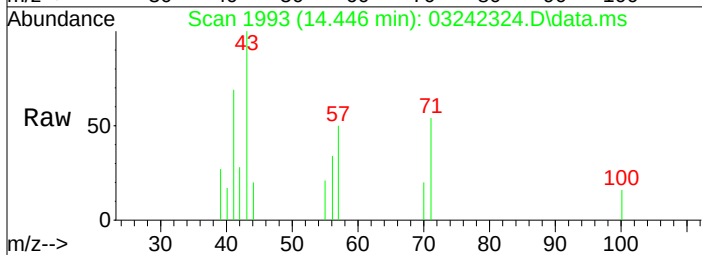
#49
 2,2,4-Trimethylpentane (Isooctane)
 Concen: 0.09 ng
 RT: 14.18 min Scan# 1945
 Delta R.T. -0.005 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 19:42

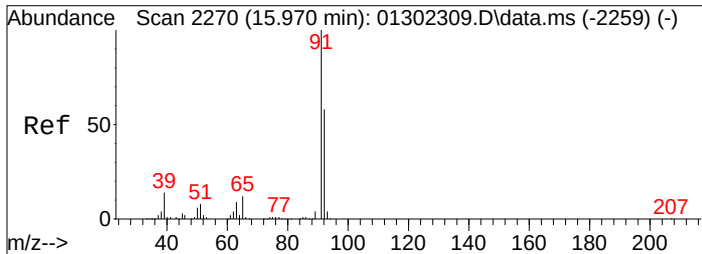
Tgt Ion:	57	Resp:	7720
Ion Ratio	Lower	Upper	
57	100		
41	41.2	5.8	45.8



#51
 n-Heptane
 Concen: 0.10 ng
 RT: 14.45 min Scan# 1993
 Delta R.T. -0.005 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 19:42

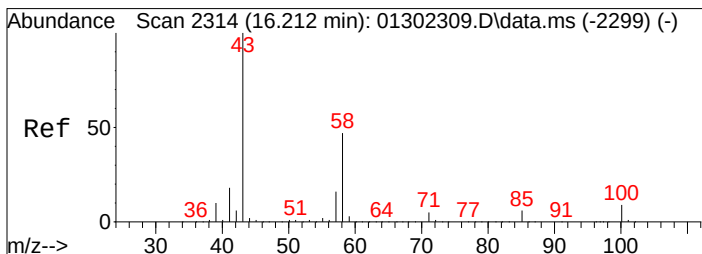
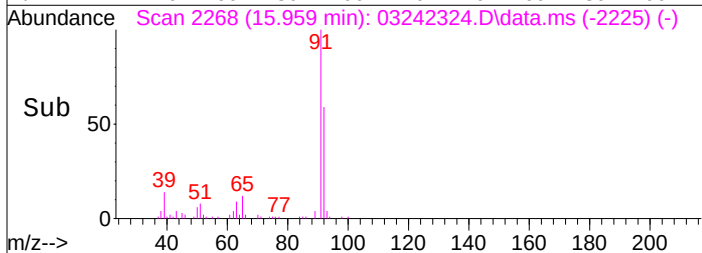
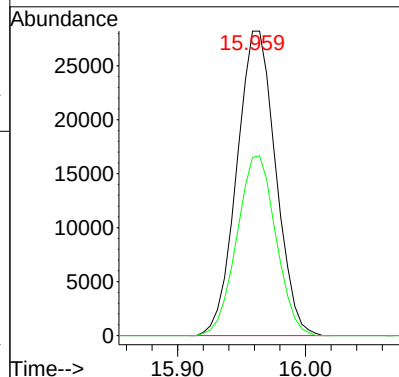
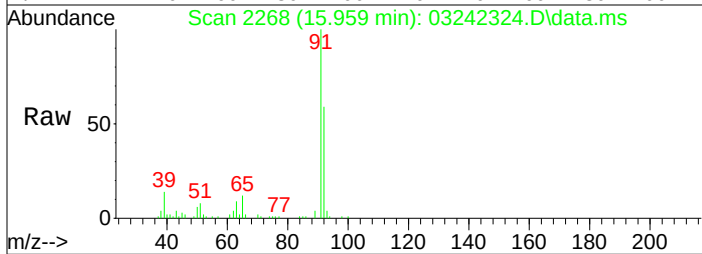
Tgt Ion:	71	Resp:	1969
Ion Ratio	Lower	Upper	
71	100		
57	89.8	81.4	121.4
100	26.0	11.8	51.8





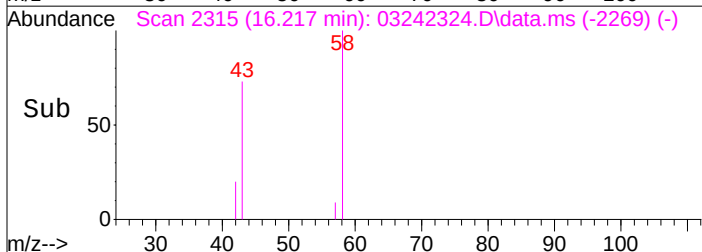
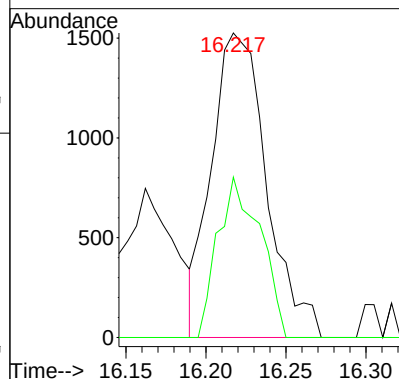
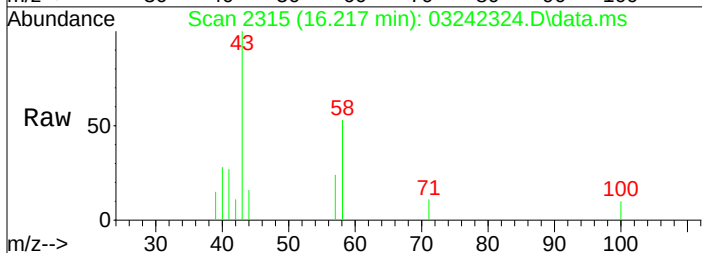
#58
Toluene
Concen: 0.75 ng
RT: 15.96 min Scan# 2268
Delta R.T. -0.011 min
Lab File: 03242324.D
Acq: 24 Mar 2023 19:42

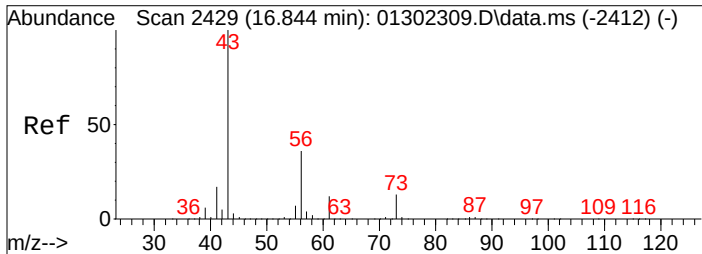
Tgt Ion: 91 Resp: 59668
Ion Ratio Lower Upper
91 100
92 59.1 39.8 79.8



#59
2-Hexanone
Concen: 0.09 ng
RT: 16.22 min Scan# 2315
Delta R.T. 0.006 min
Lab File: 03242324.D
Acq: 24 Mar 2023 19:42

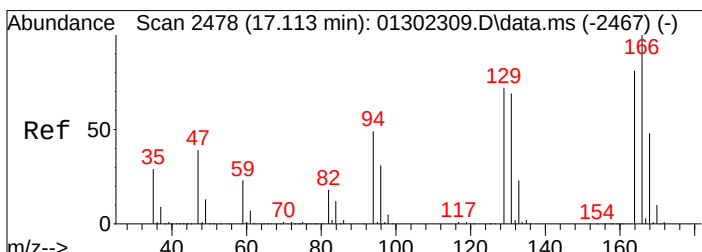
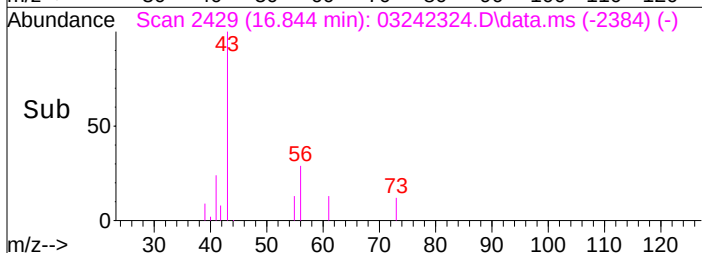
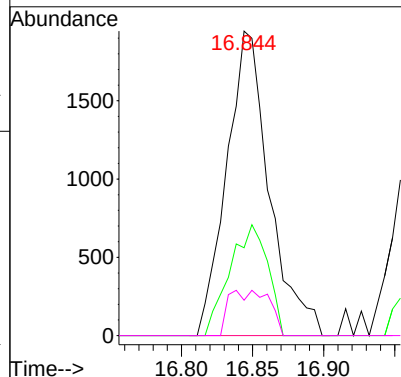
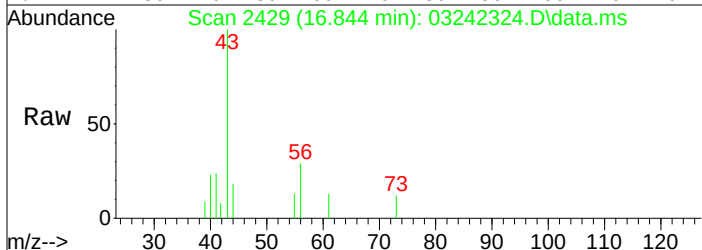
Tgt Ion: 43 Resp: 3668
Ion Ratio Lower Upper
43 100
58 40.6 32.3 72.3





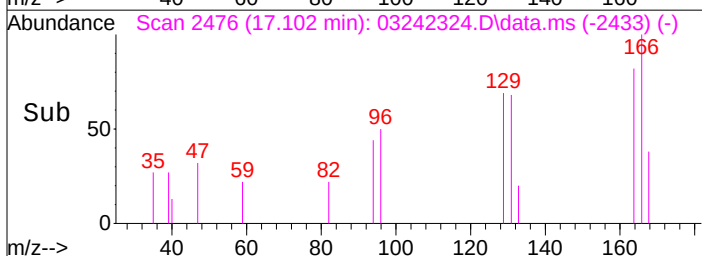
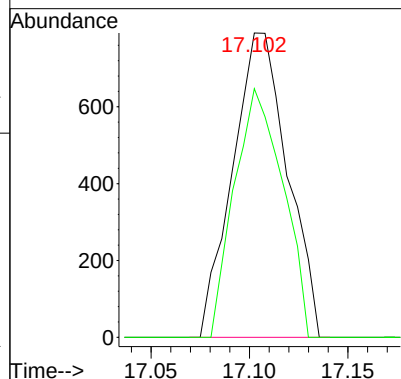
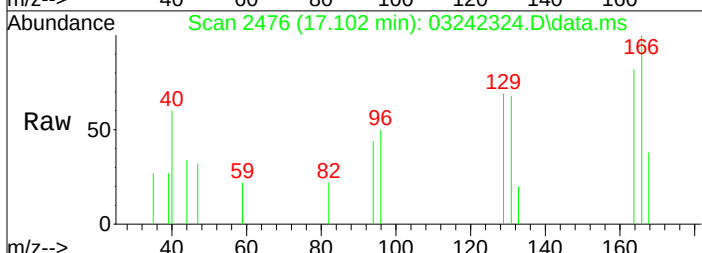
#62
n-Butyl Acetate
Concen: 0.08 ng
RT: 16.84 min Scan# 2429
Delta R.T. -0.000 min
Lab File: 03242324.D
Acq: 24 Mar 2023 19:42

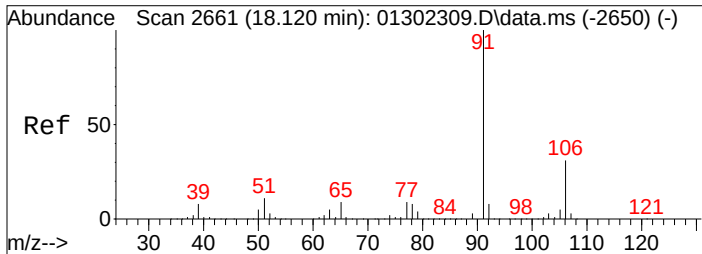
Tgt Ion:	43	Resp:	4054
Ion Ratio		Lower	Upper
43	100		
56	32.5	21.0	61.0
73	14.1	0.0	34.3



#64
Tetrachloroethene
Concen: 0.08 ng
RT: 17.10 min Scan# 2476
Delta R.T. -0.011 min
Lab File: 03242324.D
Acq: 24 Mar 2023 19:42

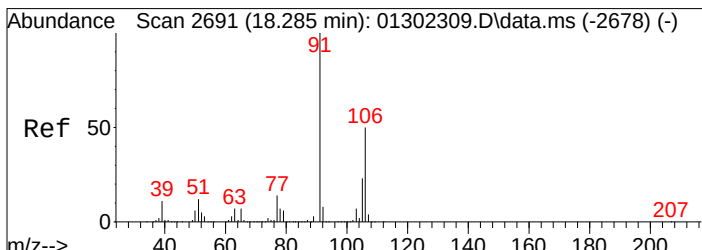
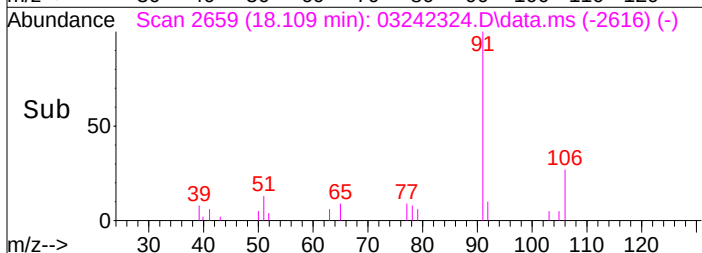
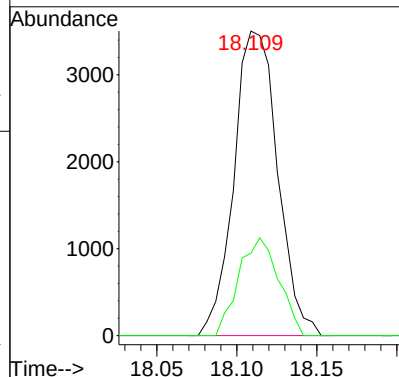
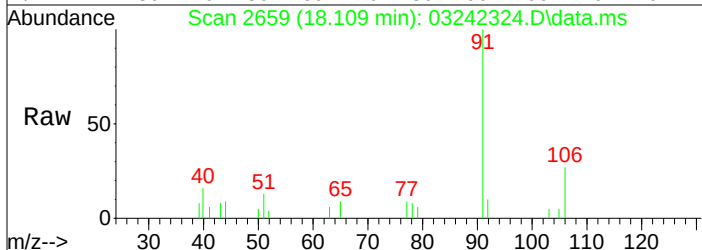
Tgt Ion:	166	Resp:	1535
Ion Ratio		Lower	Upper
166	100		
164	72.2	58.7	98.7





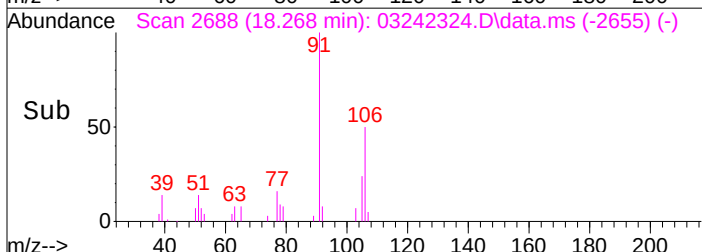
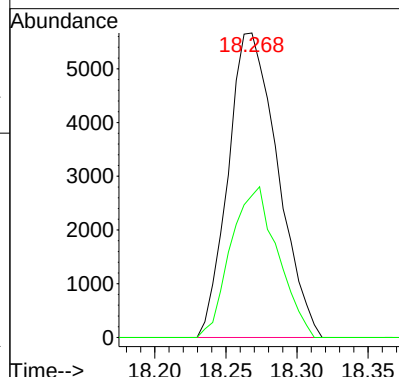
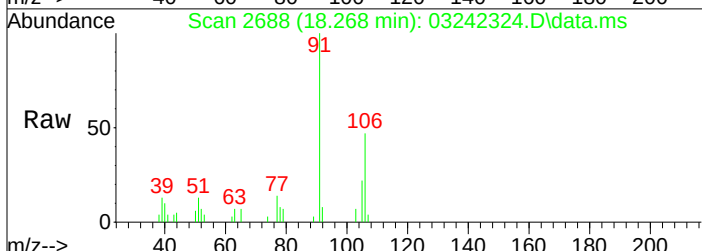
#66
Ethylbenzene
Concen: 0.07 ng
RT: 18.11 min Scan# 2659
Delta R.T. -0.011 min
Lab File: 03242324.D
Acq: 24 Mar 2023 19:42

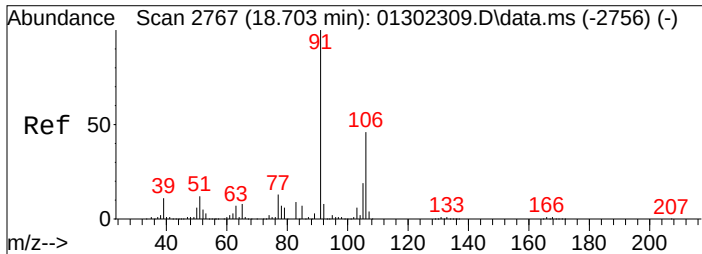
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	6658		
106	29.5	11.5	11.5	51.5



#67
m- & p-Xylenes
Concen: 0.19 ng
RT: 18.27 min Scan# 2688
Delta R.T. -0.016 min
Lab File: 03242324.D
Acq: 24 Mar 2023 19:42

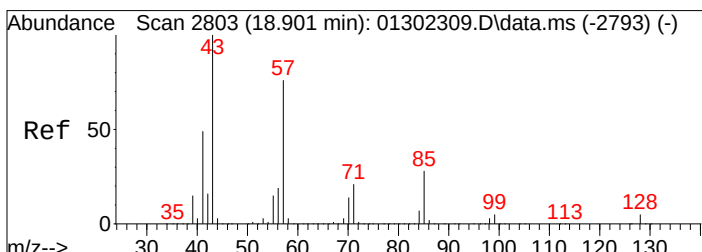
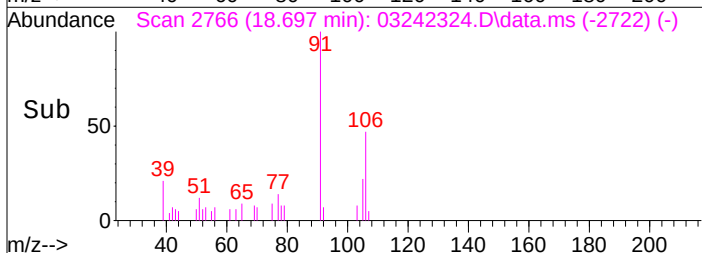
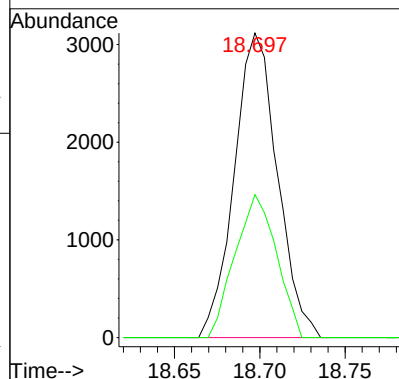
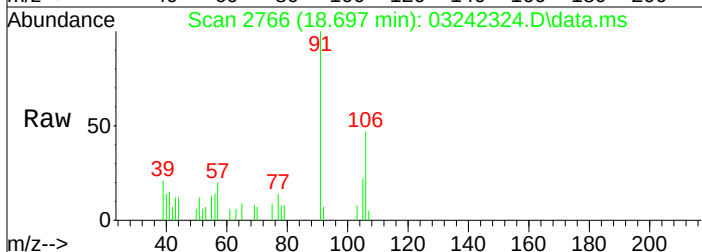
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	13701		
106	47.0	29.2	29.2	69.2





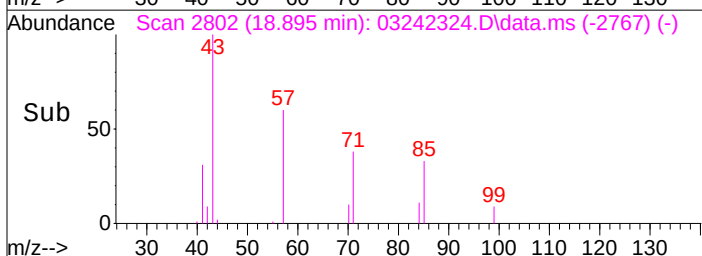
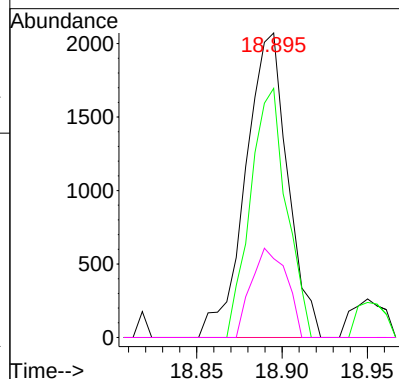
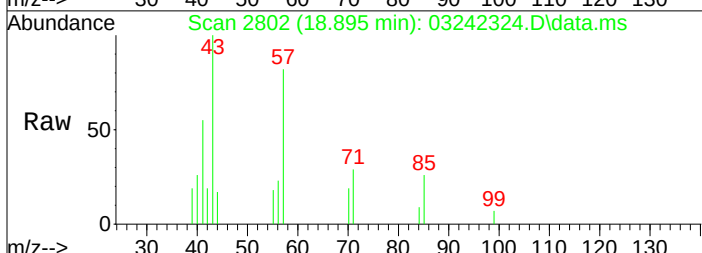
#70
o-Xylene
Concen: 0.08 ng
RT: 18.70 min Scan# 2766
Delta R.T. -0.005 min
Lab File: 03242324.D
Acq: 24 Mar 2023 19:42

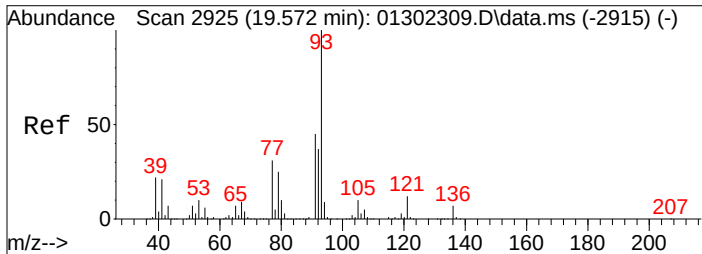
Tgt Ion: 91 Resp: 5480
Ion Ratio Lower Upper
91 100
106 45.1 27.3 67.3



#71
n-Nonane
Concen: 0.07 ng
RT: 18.90 min Scan# 2802
Delta R.T. -0.005 min
Lab File: 03242324.D
Acq: 24 Mar 2023 19:42

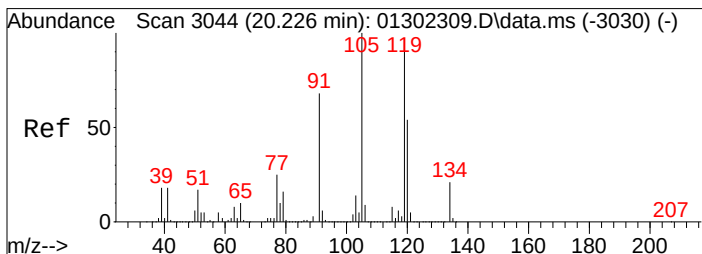
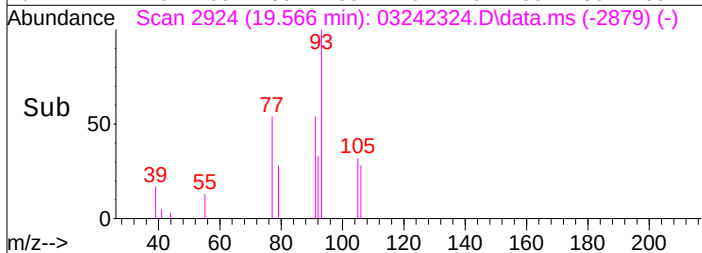
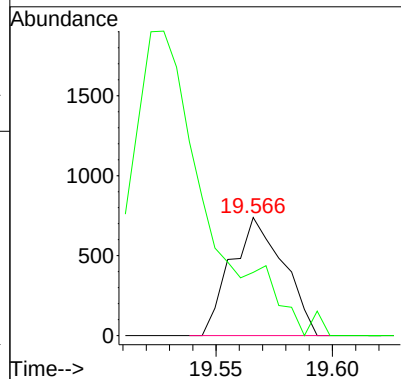
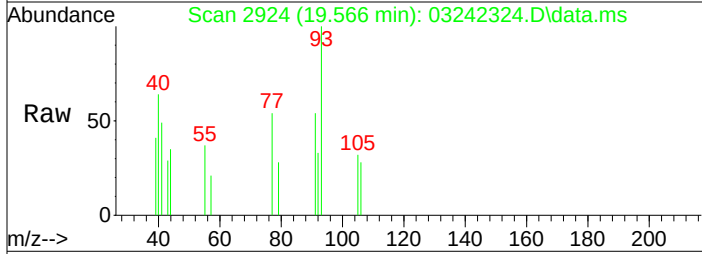
Tgt Ion: 43 Resp: 3561
Ion Ratio Lower Upper
43 100
57 69.9 64.6 104.6
85 24.5 9.6 49.6





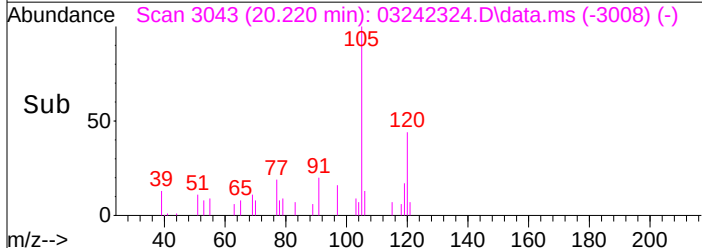
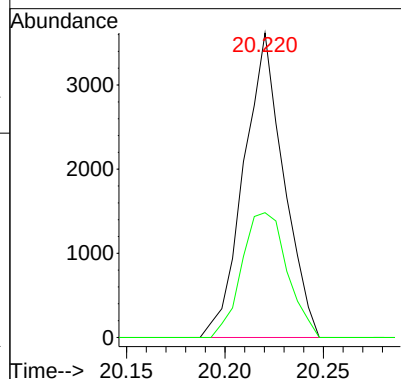
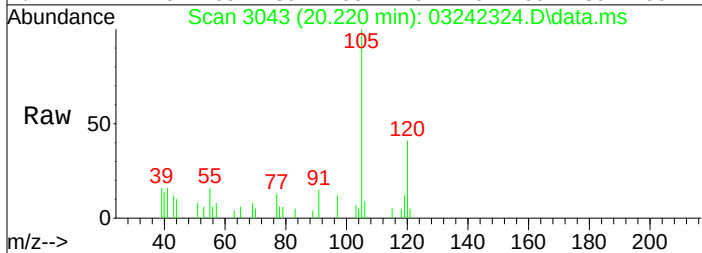
#75
 alpha-Pinene
 Concen: 0.05 ng
 RT: 19.57 min Scan# 2924
 Delta R.T. -0.005 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 19:42

Tgt Ion: 93 Resp: 1161
 Ion Ratio Lower Upper
 93 100
 77 367.4 11.7 51.7#



#82
 1,2,4-Trimethylbenzene
 Concen: 0.07 ng
 RT: 20.22 min Scan# 3043
 Delta R.T. -0.005 min
 Lab File: 03242324.D
 Acq: 24 Mar 2023 19:42

Tgt Ion: 105 Resp: 5104
 Ion Ratio Lower Upper
 105 100
 120 46.6 37.2 77.2



Data File : I:\MS16\DATA\2023_03\24\03242324.D
 Acq On : 24 Mar 2023 19:42
 Sample : P2301250-047 (1000mL)
 Misc : S35-01312301

Vial: 9
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 09:49:32 2023
 Quant Method : I:\MS16\METHODS\C16122022.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Dec 21 05:02:49 2022
 Response via : Initial Calibration
 DataAcq Meth: T015B.M

USA 3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.28	130	200601	12.500	ng	-0.02
16) 1,4-Difluorobenzene (C_2)	13.41	114	929152	12.500	ng	-0.01
19) Chlorobenzene-d5 (C_3)	17.72	54	208123	12.500	ng	0.00

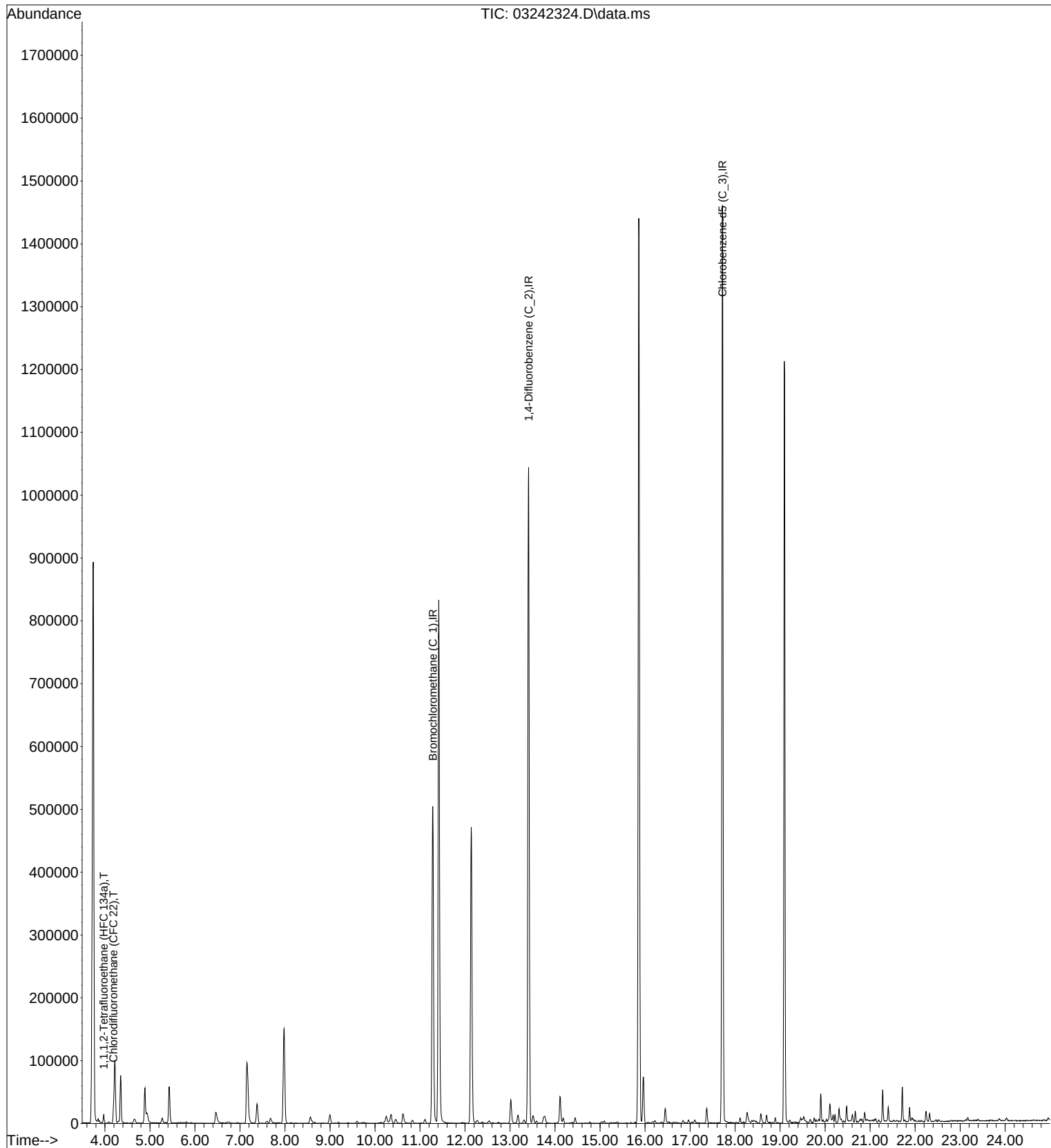
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.88	85	835	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.98	83	6441	0.405	ng	# 81
4) 1,1-Difluoroethane	4.09	65	842	N.D.		
5) Chlorodifluoromethane ...	4.19	67	2898	0.584	ng	92
6) 1-Chloro-1,1-Difluoroe...	4.66	65	3078	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	8.60	43	4847	N.D.		
12) 2-Methylpentane	0.00	71	0	N.D.	d	
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	13.17	84	1323	N.D.		
17) 2,3-Dimethylpentane	13.59	56	1426	N.D.		
18) Dibromomethane	13.82	174	136	N.D.		
20) Methyl Cyclohexane	15.08	55	1303	N.D.		
21) 1,3-Dichloropropane	15.97	76	174	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	0.00	91	0	N.D.		
24) 1,2,3-Trichloropropane	18.70	75	329	N.D.		
25) Bromobenzene	19.22	77	50	N.D.		
26) 2-Chlorotoluene	19.67	91	1925	N.D.		
27) 4-Chlorotoluene	19.67	91	1925	N.D.		
28) Indane	20.76	117	479	N.D.		
29) Indene	20.76	115	50	N.D.		
30) 1,2,4,5-Tetramethylben...	21.66	119	807	N.D.		
31) 1,2,3,4-Tetramethylben...	21.66	119	807	N.D.		
32) 1,2,3,5-Tetramethylben...	21.99	119	747	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\24\03242324.D
Acq On : 24 Mar 2023 19:42
Sample : P2301250-047 (1000mL)
Misc : S35-01312301

Vial: 9
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 09:49:32 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG24-2

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-048

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: SC01810

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.96 Final Pressure (psig): 4.21

Container Dilution Factor: 1.38

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.9	0.73	0.12	0.59	0.15	0.024	
74-87-3	Chloromethane	0.34	0.29	0.12	0.17	0.14	0.057	
75-01-4	Vinyl Chloride	ND	0.15	0.079	ND	0.059	0.031	
74-83-9	Bromomethane	ND	0.29	0.10	ND	0.075	0.026	
75-00-3	Chloroethane	ND	0.29	0.091	ND	0.11	0.035	
67-64-1	Acetone	3.7	7.3	1.7	1.6	3.1	0.70	J
75-69-4	Trichlorofluoromethane	1.4	0.72	0.11	0.25	0.13	0.020	
75-35-4	1,1-Dichloroethene	ND	0.15	0.10	ND	0.038	0.026	
75-09-2	Methylene Chloride	0.49	0.73	0.21	0.14	0.21	0.060	J
76-13-1	Trichlorotrifluoroethane	0.51	0.75	0.10	0.066	0.097	0.014	J
75-15-0	Carbon Disulfide	ND	1.5	0.22	ND	0.47	0.071	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	0.10	ND	0.038	0.026	
75-34-3	1,1-Dichloroethane	ND	0.15	0.11	ND	0.038	0.027	
1634-04-4	Methyl tert-Butyl Ether	ND	0.75	0.087	ND	0.21	0.024	
78-93-3	2-Butanone (MEK)	0.68	1.4	0.15	0.23	0.49	0.051	J
156-59-2	cis-1,2-Dichloroethene	ND	0.15	0.10	ND	0.038	0.026	
67-66-3	Chloroform	0.098	0.15	0.098	0.020	0.031	0.020	J
107-06-2	1,2-Dichloroethane	ND	0.15	0.081	ND	0.038	0.020	
71-55-6	1,1,1-Trichloroethane	ND	0.15	0.091	ND	0.028	0.017	
71-43-2	Benzene	0.54	0.15	0.11	0.17	0.048	0.033	
56-23-5	Carbon Tetrachloride	0.48	0.15	0.10	0.076	0.024	0.016	
110-82-7	Cyclohexane	ND	1.4	0.21	ND	0.42	0.060	
78-87-5	1,2-Dichloropropane	ND	0.15	0.091	ND	0.033	0.020	
75-27-4	Bromodichloromethane	ND	0.15	0.11	ND	0.023	0.016	
79-01-6	Trichloroethene	0.22	0.15	0.099	0.041	0.028	0.018	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG24-2

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-048

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: SC01810

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.96 Final Pressure (psig): 4.21

Container Dilution Factor: 1.38

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.75	0.11	ND	0.16	0.025	
108-10-1	4-Methyl-2-pentanone	ND	1.5	0.10	ND	0.37	0.025	
10061-02-6	trans-1,3-Dichloropropene	ND	0.70	0.15	ND	0.16	0.033	
79-00-5	1,1,2-Trichloroethane	ND	0.15	0.075	ND	0.028	0.014	
108-88-3	Toluene	0.63	0.73	0.090	0.17	0.19	0.024	J
591-78-6	2-Hexanone	0.15	1.5	0.091	0.038	0.37	0.022	J
124-48-1	Dibromochloromethane	ND	0.15	0.097	ND	0.018	0.011	
106-93-4	1,2-Dibromoethane	ND	0.15	0.086	ND	0.020	0.011	
127-18-4	Tetrachloroethene	ND	0.15	0.095	ND	0.022	0.014	
108-90-7	Chlorobenzene	ND	0.73	0.098	ND	0.16	0.021	
100-41-4	Ethylbenzene	ND	0.73	0.10	ND	0.17	0.024	
179601-23-1	m,p-Xylenes	0.27	1.5	0.19	0.062	0.35	0.044	J
75-25-2	Bromoform	ND	0.75	0.15	ND	0.072	0.015	
100-42-5	Styrene	ND	0.73	0.12	ND	0.17	0.028	
95-47-6	o-Xylene	0.11	0.73	0.11	0.024	0.17	0.024	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	0.10	ND	0.022	0.015	
98-82-8	Cumene	ND	0.75	0.11	ND	0.15	0.022	
541-73-1	1,3-Dichlorobenzene	ND	0.73	0.11	ND	0.12	0.018	
106-46-7	1,4-Dichlorobenzene	ND	0.73	0.11	ND	0.12	0.019	
95-50-1	1,2-Dichlorobenzene	ND	0.75	0.11	ND	0.12	0.018	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.5	0.14	ND	0.16	0.014	
120-82-1	1,2,4-Trichlorobenzene	ND	1.5	0.18	ND	0.20	0.024	
79-20-9	Methyl Acetate	ND	0.69	0.33	ND	0.23	0.11	X
108-87-2	Methylcyclohexane	ND	0.69	0.36	ND	0.17	0.089	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS16\DATA\2023_03\24\03242326.D
 Acq On : 24 Mar 2023 20:50
 Sample : P2301250-048 (1000mL)
 Misc : S35-01312301

Vial: 10
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 09:10:29 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	203218	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	935743	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.72	54	207755	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	367245	13.589	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	108.72%	
57) Toluene-d8 (SS2)	15.86	98	1076596	11.837	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	94.72%	
73) Bromofluorobenzene (SS3)	19.10	174	329358	11.610	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	92.88%	

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	4.34	85	64742	2.131	ng	99
4) Chloromethane	4.64	50	7077	0.249	ng	97
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	1576	0.093	ng	85
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.33	54	473	N.D.		
8) Bromomethane	5.78	94	256	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.46	45	36649	1.874	ng	97
11) Acetonitrile	6.74	41	5159	0.105	ng	85
12) Acrolein	6.95	56	1961	0.142	ng	95
13) Acetone	7.15	58	40053	2.678	ng	# 81
14) Trichlorofluoromethane	7.37	101	28200	1.006	ng	99
15) 2-Propanol (Isopropanol)	7.68	45	13857	0.266	ng	95
16) Acrylonitrile	7.89	53	1338	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.		
19) Methylene Chloride	8.56	84	5886	0.356	ng	99
20) 3-Chloro-1-propene (Al...	8.66	41	445	N.D.		
21) Trichlorotrifluoroethane	8.99	151	5139	0.368	ng	88
22) Carbon Disulfide	8.85	76	2820	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	10.32	86	1288	0.385	ng	# 85
27) 2-Butanone (MEK)	10.62	72	5353	0.494	ng	94
28) cis-1,2-Dichloroethene	11.11	61	1307	0.052	ng	99
29) Diisopropyl Ether	11.41	87	266	N.D.		
30) Ethyl Acetate	11.42	61	26848	3.786	ng	94
31) n-Hexane	11.40	57	4760	0.134	ng	91
32) Chloroform	11.44	83	1932	0.071	ng	99
34) Tetrahydrofuran (THF)	11.94	72	307	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	N.D.	d	
38) 1,1,1-Trichloroethane	12.54	97	106	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.02	78	25591	0.388	ng	98
42) Carbon Tetrachloride	13.18	117	7412	0.346	ng	98
43) Cyclohexane	13.31	84	1293	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	13.87	63	121	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	14.11	130	2839	0.158	ng	98
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	14.18	57	8748	0.098	ng	72
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS16\DATA\2023_03\24\03242326.D
 Acq On : 24 Mar 2023 20:50
 Sample : P2301250-048 (1000mL)
 Misc : S35-01312301

Vial: 10
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 09:10:29 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

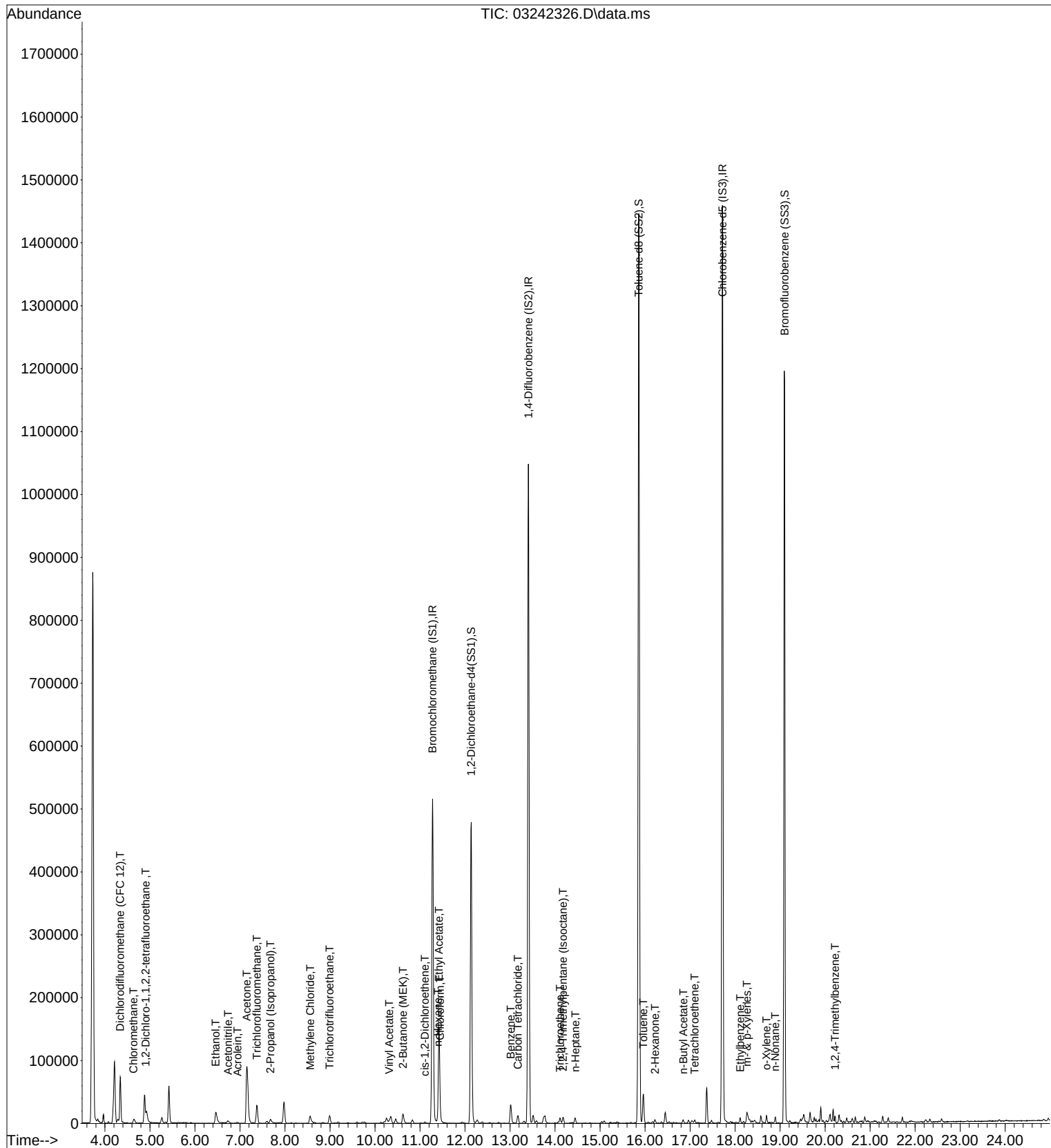
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.45	71	1994	0.103	ng	98
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	15.03	58	621	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.96	91	36050	0.453	ng	97
59) 2-Hexanone	16.22	43	4701	0.112	ng	87
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.85	43	4739	0.099	ng	95
63) n-Octane	16.96	57	840	N.D.		
64) Tetrachloroethene	17.10	166	1279	0.063	ng	93
65) Chlorobenzene	17.76	112	370	N.D.		
66) Ethylbenzene	18.11	91	6662	0.074	ng	97
67) m- & p-Xylenes	18.26	91	13947	0.196	ng	97
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.60	104	841	N.D.		
70) o-Xylene	18.70	91	5395	0.077	ng	97
71) n-Nonane	18.89	43	3999	0.080	ng	88
72) 1,1,2,2-Tetrachloroethane	18.75	83	109	N.D.		
74) Cumene	19.22	105	1113	N.D.		
75) alpha-Pinene	19.57	93	572	N.D.		
76) n-Propylbenzene	19.66	91	2049	N.D.		
77) 3-Ethyltoluene	20.22	105	4518	No Calib	#	
78) 4-Ethyltoluene	19.80	105	1872	N.D.		
79) 1,3,5-Trimethylbenzene	19.86	105	1578	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.22	105	4518	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.22	105	4518	0.063	ng	85
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	20.34	91	246	N.D.		
85) 1,3-Dichlorobenzene	20.35	146	356	N.D.		
86) 1,4-Dichlorobenzene	20.41	146	601	N.D.		
87) sec-Butylbenzene	20.46	105	339	N.D.		
88) 4-Isopropyltoluene (p-...	20.59	119	1280	N.D.		
89) 1,2,3-Trimethylbenzene	20.22	105	4518	No Calib	#	
90) 1,2-Dichlorobenzene	20.71	146	320	N.D.		
91) d-Limonene	20.72	68	402	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	22.23	180	886	N.D.		
95) Naphthalene	22.33	128	2950	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	18.19	55	779	No Calib	#	
99) tert-Butylbenzene	20.22	119	846	N.D.		
100) n-Butylbenzene	20.96	91	1482	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\24\03242326.D
Acq On : 24 Mar 2023 20:50
Sample : P2301250-048 (1000mL)
Misc : S35-01312301

Vial: 10
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 09:10:29 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



Data File : I:\MS16\DATA\2023_03\24\03242326.D
 Acq On : 24 Mar 2023 20:50
 Sample : P2301250-048 (1000mL)
 Misc : S35-01312301

Vial: 10
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 09:10:29 2023

3/27/23

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	203218	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	935743	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.72	54	207755	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	367245	13.589	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	108.72%
57) Toluene-d8 (SS2)	15.86	98	1076596	11.837	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.72%
73) Bromofluorobenzene (SS3)	19.10	174	329358	11.610	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.88%

Target Compounds

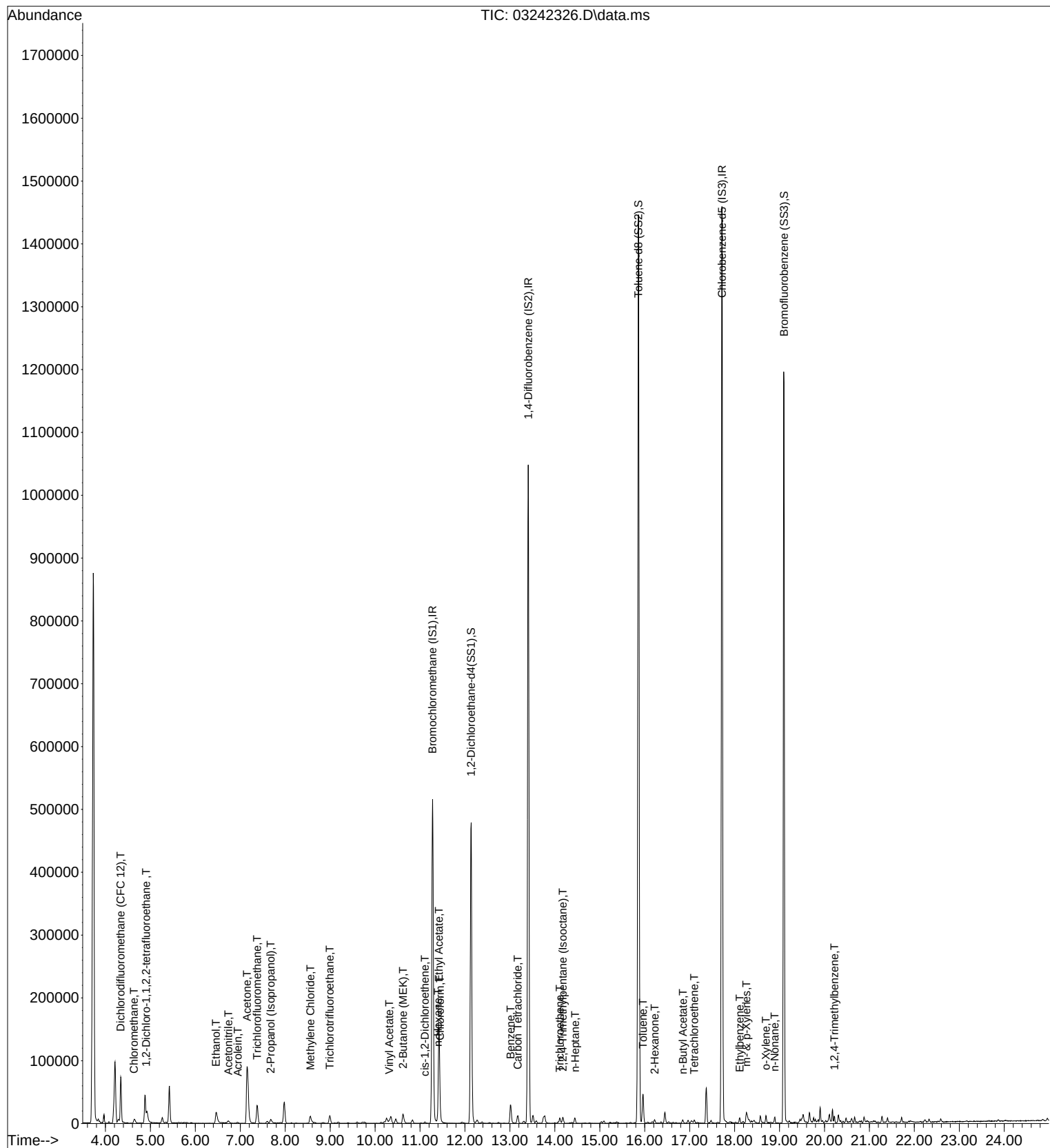
						Qvalue
3) Dichlorodifluoromethan...	4.34	85	64742	2.131	ng	99
4) Chloromethane	4.64	50	7077	0.249	ng	97
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	1576	0.093	ng	85
10) Ethanol	6.46	45	36649	1.874	ng	97
11) Acetonitrile	6.74	41	5159	0.105	ng	85
12) Acrolein	6.95	56	1961	0.142	ng	95
13) Acetone	7.15	58	40053	2.678	ng	# 81
14) Trichlorofluoromethane	7.37	101	28200	1.006	ng	99
15) 2-Propanol (Isopropanol)	7.68	45	13857	0.266	ng	95
19) Methylene Chloride	8.56	84	5886	0.356	ng	99
21) Trichlorotrifluoroethane	8.99	151	5139	0.368	ng	88
26) Vinyl Acetate	10.32	86	1288	0.385	ng	# 85
27) 2-Butanone (MEK)	10.62	72	5353	0.494	ng	94
28) cis-1,2-Dichloroethene	11.11	61	1307	0.052	ng	99
30) Ethyl Acetate	11.42	61	26848	3.786	ng	94
31) n-Hexane	11.40	57	4760	0.134	ng	91
32) Chloroform	11.44	83	1932	0.071	ng	99
41) Benzene	13.02	78	25591	0.388	ng	98
42) Carbon Tetrachloride	13.18	117	7412	0.346	ng	98
47) Trichloroethene	14.11	130	2839	0.158	ng	98
49) 2,2,4-Trimethylpentane...	14.18	57	8748	0.098	ng	72
51) n-Heptane	14.45	71	1994	0.103	ng	98
58) Toluene	15.96	91	36050	0.453	ng	97
59) 2-Hexanone	16.22	43	4701	0.112	ng	87
62) n-Butyl Acetate	16.85	43	4739	0.099	ng	95
64) Tetrachloroethene	17.10	166	1279	0.063	ng	93
66) Ethylbenzene	18.11	91	6662	0.074	ng	97
67) m- & p-Xylenes	18.26	91	13947	0.196	ng	97
70) o-Xylene	18.70	91	5395	0.077	ng	97
71) n-Nonane	18.89	43	3999	0.080	ng	88
82) 1,2,4-Trimethylbenzene	20.22	105	4518	0.063	ng	85

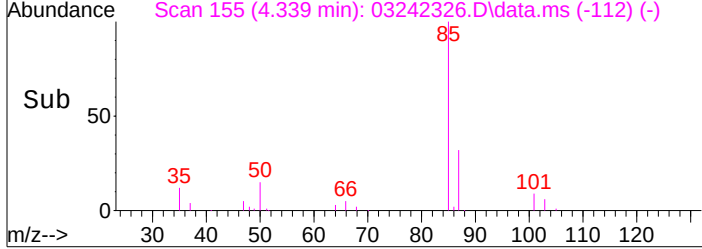
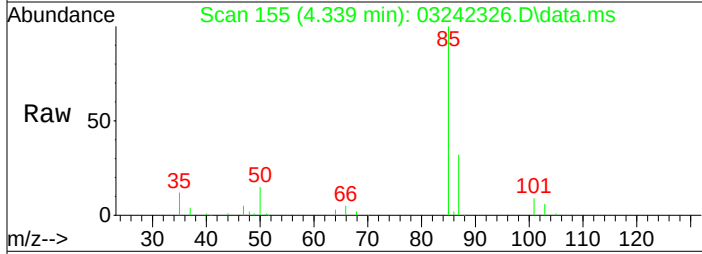
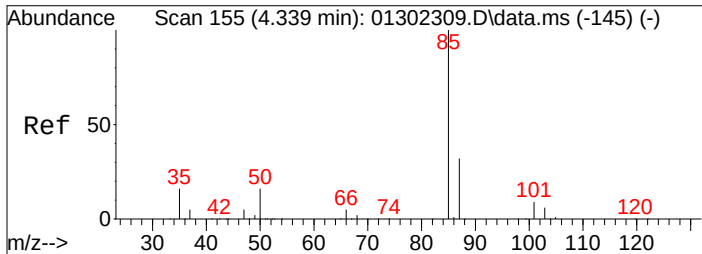
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS16\DATA\2023_03\24\03242326.D
Acq On : 24 Mar 2023 20:50
Sample : P2301250-048 (1000mL)
Misc : S35-01312301

Vial: 10
Operator: WA
Inst : GCMS-16

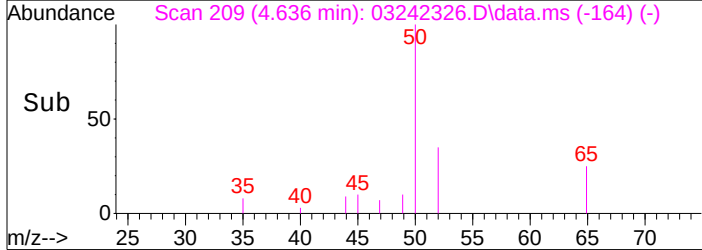
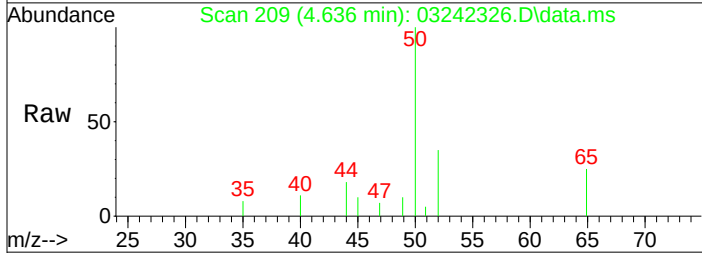
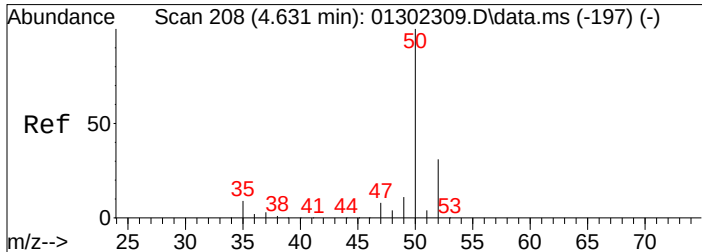
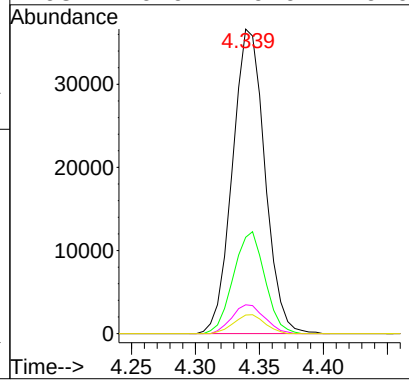
Quant Time: Mar 27 09:10:29 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M





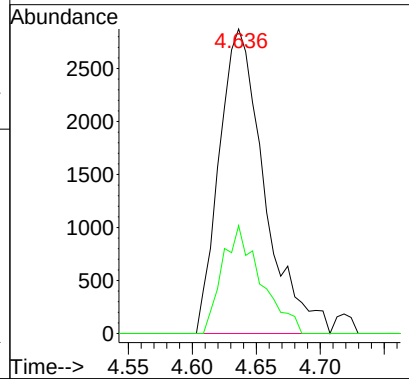
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 2.13 ng
 RT: 4.34 min Scan# 155
 Delta R.T. -0.011 min
 Lab File: 03242326.D
 Acq: 24 Mar 2023 20:50

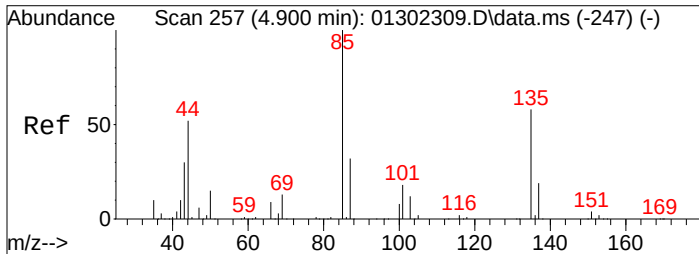
Tgt Ion:	85	Resp:	64742
Ion Ratio		Lower	Upper
85	100		
87	32.5	12.1	52.1
101	9.6	0.0	29.3
103	6.0	0.0	26.0



#4
 Chloromethane
 Concen: 0.25 ng
 RT: 4.64 min Scan# 209
 Delta R.T. 0.000 min
 Lab File: 03242326.D
 Acq: 24 Mar 2023 20:50

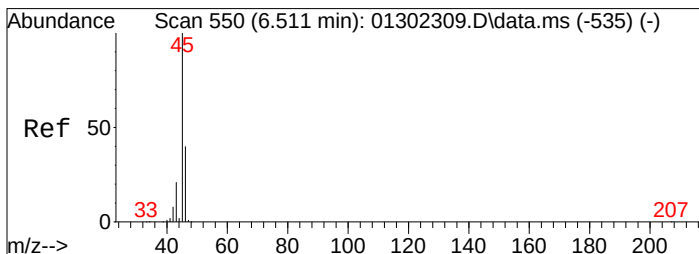
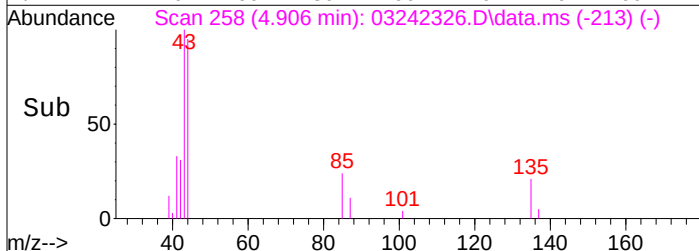
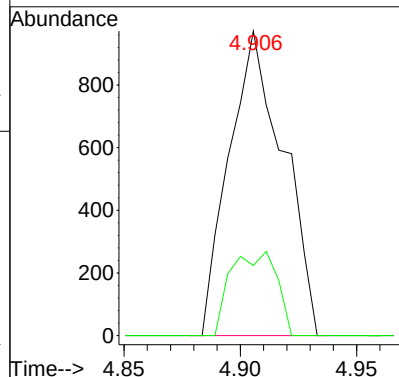
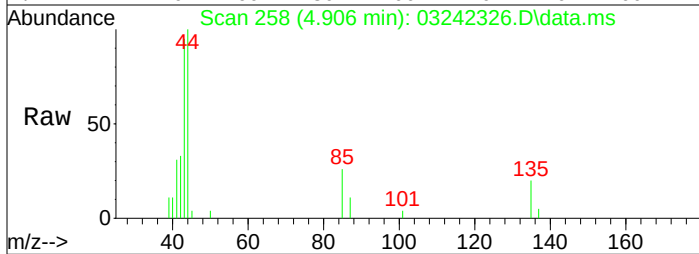
Tgt Ion:	50	Resp:	7077
Ion Ratio		Lower	Upper
50	100		
52	30.3	12.2	52.2





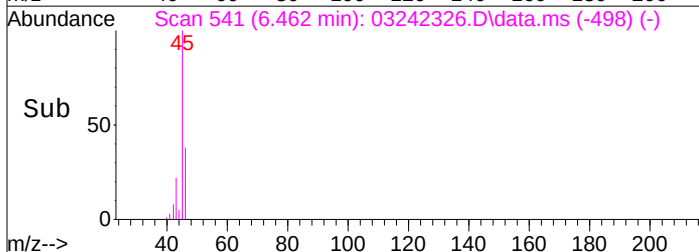
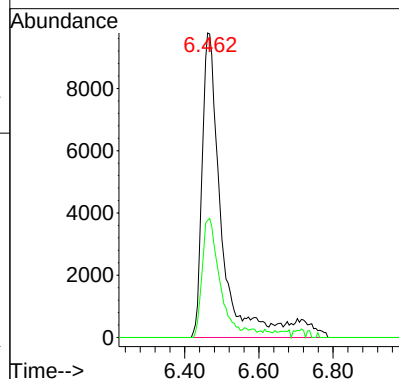
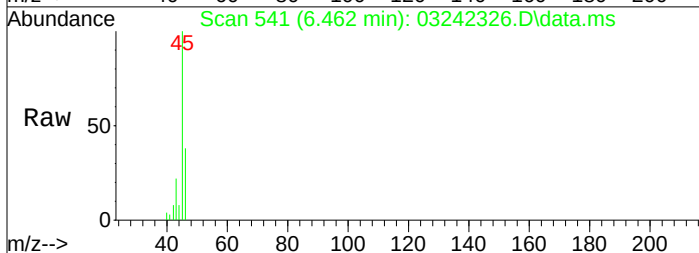
#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.09 ng
 RT: 4.91 min Scan# 258
 Delta R.T. 0.000 min
 Lab File: 03242326.D
 Acq: 24 Mar 2023 20:50

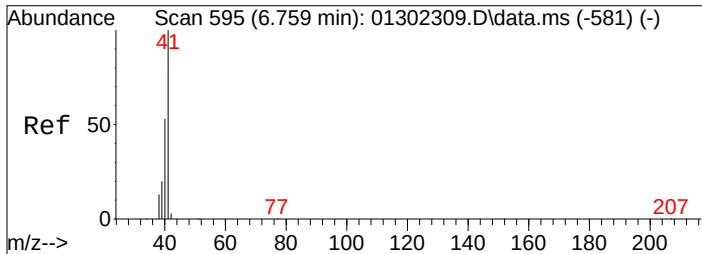
Tgt Ion: 135 Resp: 1576
 Ion Ratio Lower Upper
 135 100
 137 23.5 12.0 52.0



#10
 Ethanol
 Concen: 1.87 ng
 RT: 6.46 min Scan# 541
 Delta R.T. -0.016 min
 Lab File: 03242326.D
 Acq: 24 Mar 2023 20:50

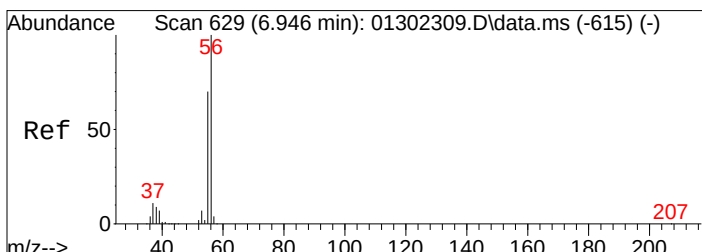
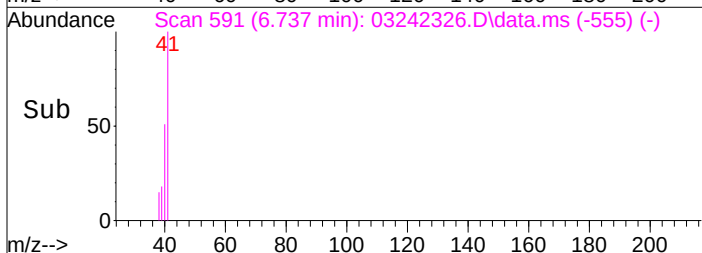
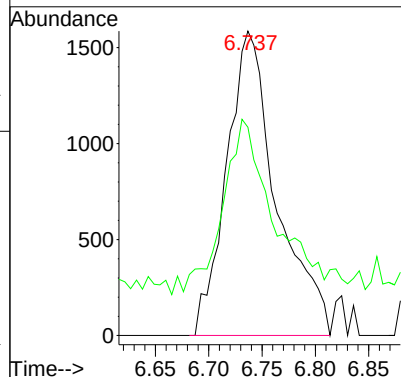
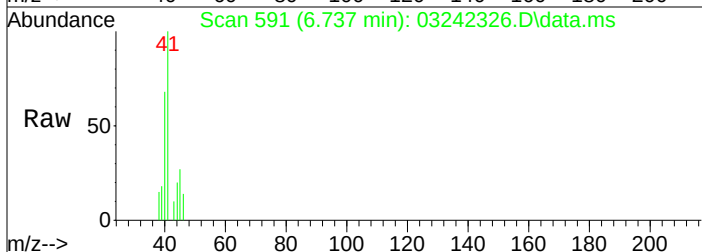
Tgt Ion: 45 Resp: 36649
 Ion Ratio Lower Upper
 45 100
 46 38.4 20.5 60.5





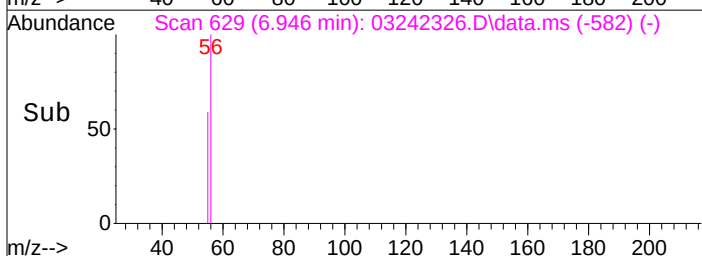
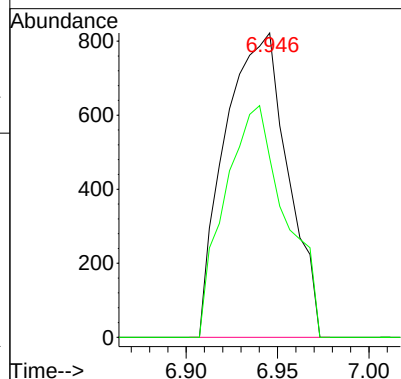
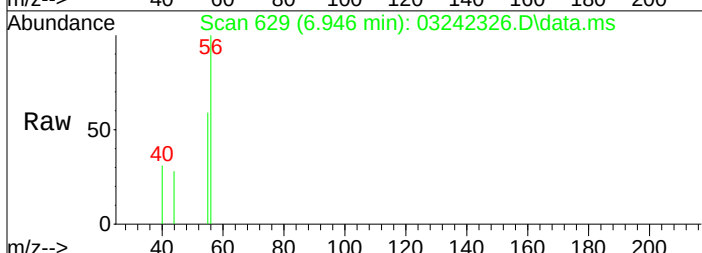
#11
Acetonitrile
Concen: 0.11 ng
RT: 6.74 min Scan# 591
Delta R.T. -0.000 min
Lab File: 03242326.D
Acq: 24 Mar 2023 20:50

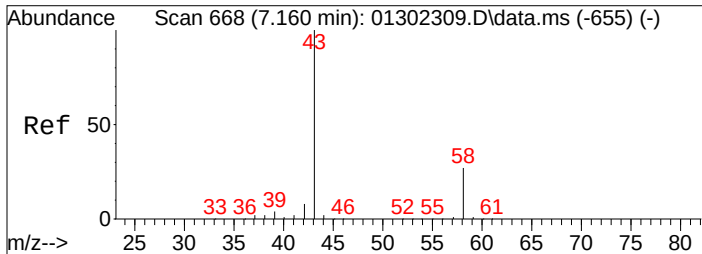
Tgt Ion:	41	Resp:	5159
Ion Ratio		Lower	Upper
41	100		
40	62.9	32.4	72.4



#12
Acrolein
Concen: 0.14 ng
RT: 6.95 min Scan# 629
Delta R.T. 0.011 min
Lab File: 03242326.D
Acq: 24 Mar 2023 20:50

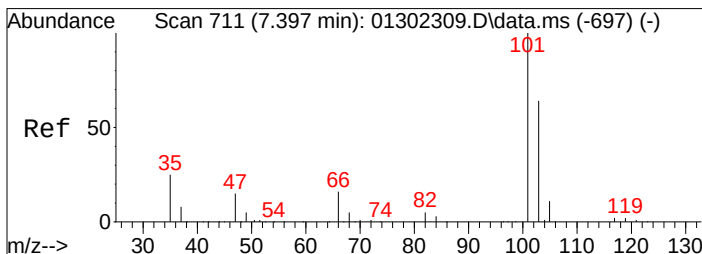
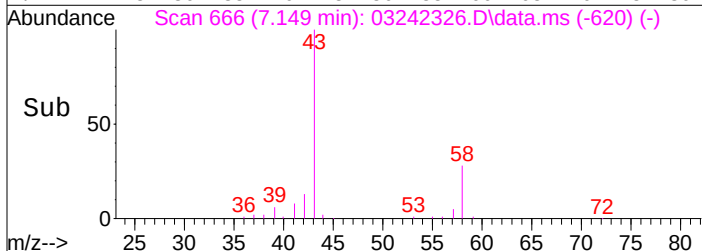
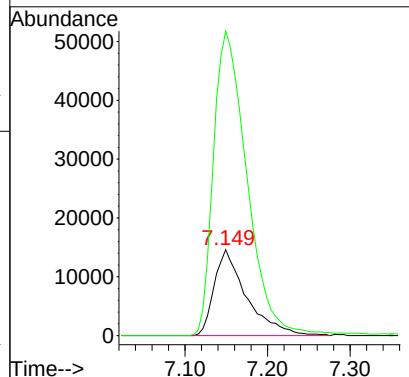
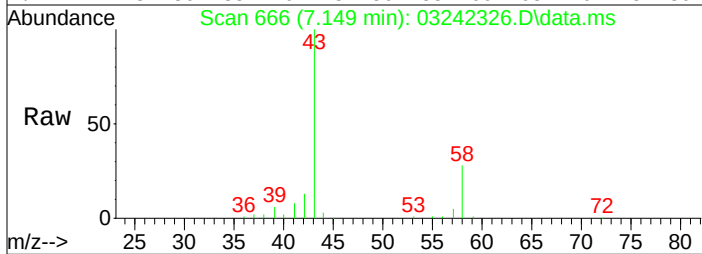
Tgt Ion:	56	Resp:	1961
Ion Ratio		Lower	Upper
56	100		
55	73.6	49.9	89.9





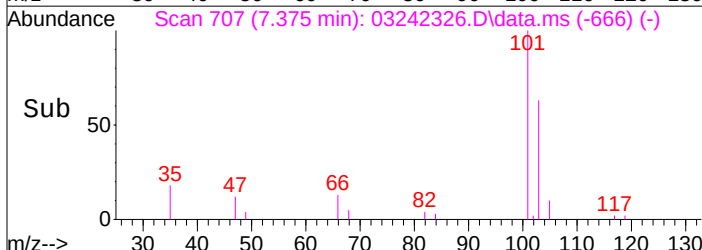
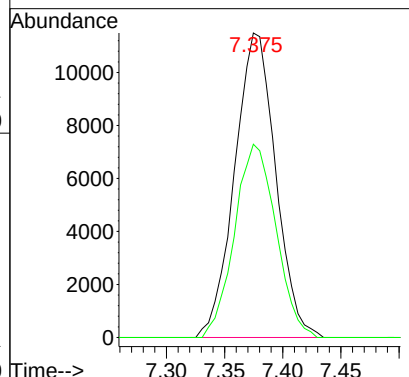
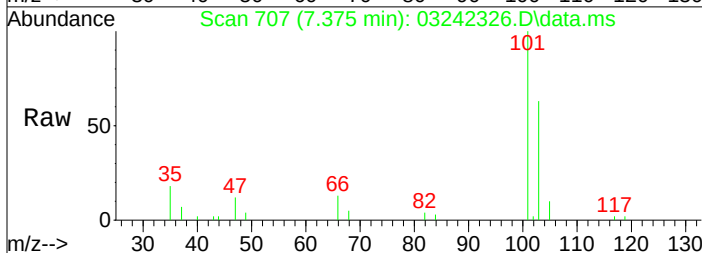
#13
Acetone
Concen: 2.68 ng
RT: 7.15 min Scan# 666
Delta R.T. 0.005 min
Lab File: 03242326.D
Acq: 24 Mar 2023 20:50

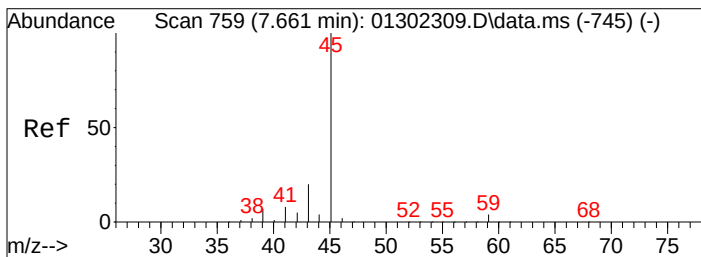
Tgt Ion	Ratio	Lower	Upper
58	100		
43	368.5	298.5	358.5#



#14
Trichlorofluoromethane
Concen: 1.01 ng
RT: 7.37 min Scan# 707
Delta R.T. -0.022 min
Lab File: 03242326.D
Acq: 24 Mar 2023 20:50

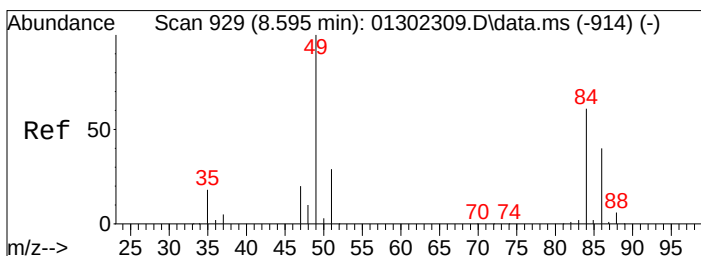
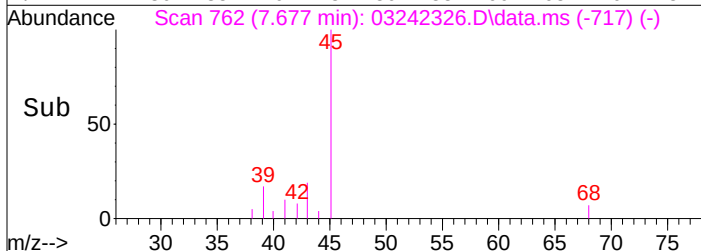
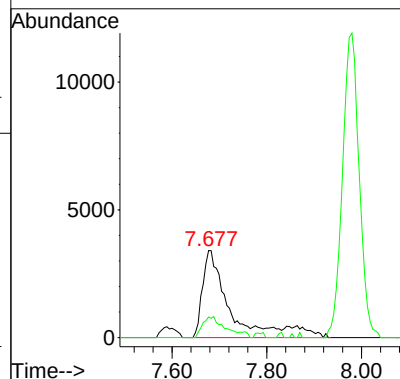
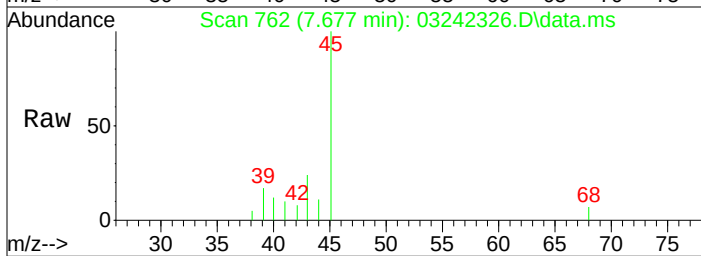
Tgt Ion	Ratio	Lower	Upper
101	100		
103	64.1	44.8	84.8





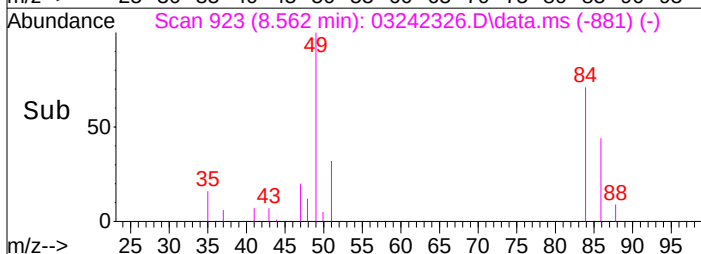
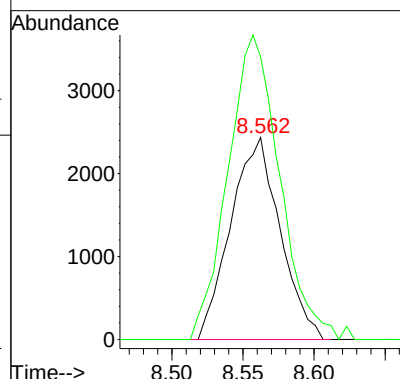
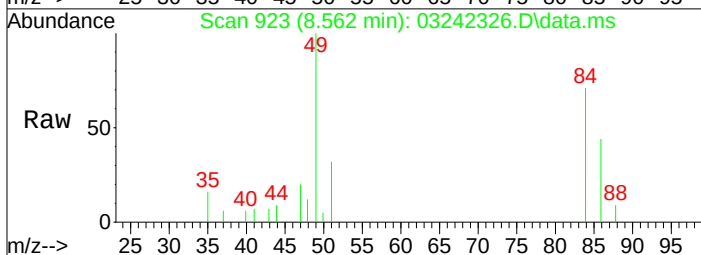
#15
2-Propanol (Isopropanol)
Concen: 0.27 ng
RT: 7.68 min Scan# 762
Delta R.T. -0.003 min
Lab File: 03242326.D
Acq: 24 Mar 2023 20:50

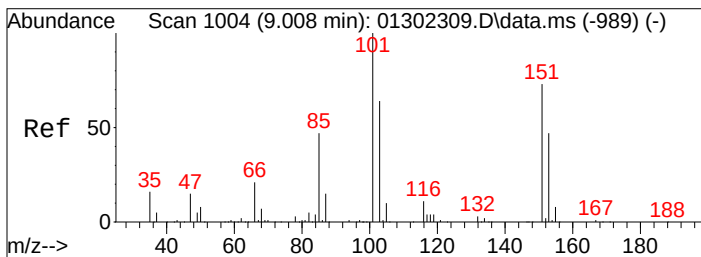
Tgt Ion: 45 Resp: 13857
Ion Ratio Lower Upper
45 100
43 20.0 0.0 37.9



#19
Methylene Chloride
Concen: 0.36 ng
RT: 8.56 min Scan# 923
Delta R.T. -0.016 min
Lab File: 03242326.D
Acq: 24 Mar 2023 20:50

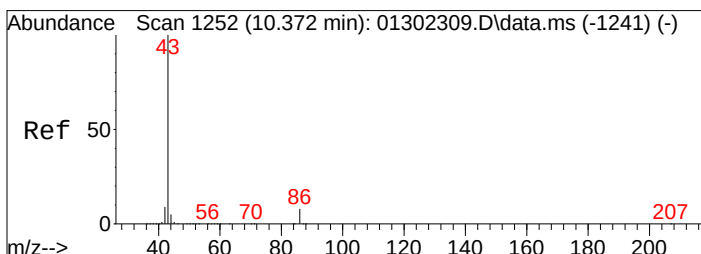
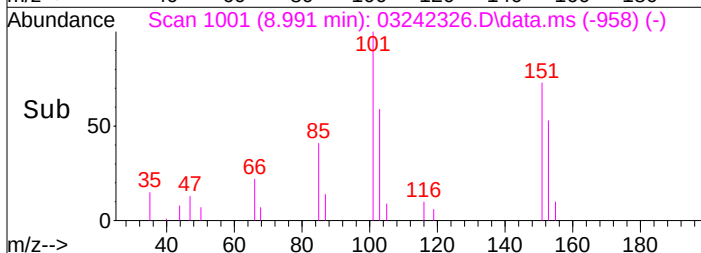
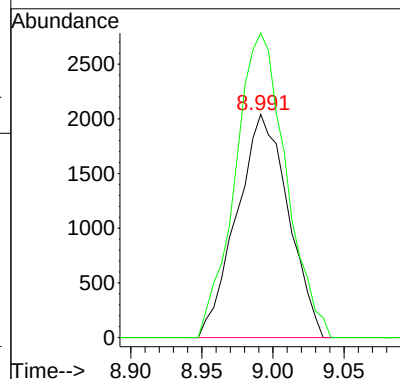
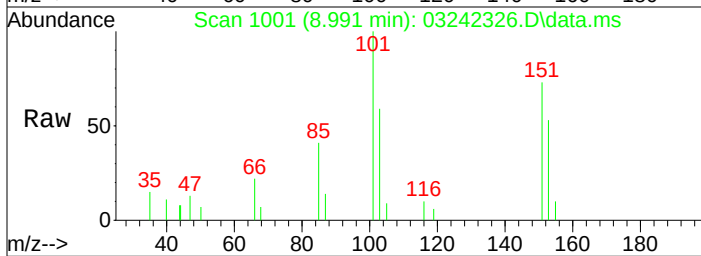
Tgt Ion: 84 Resp: 5886
Ion Ratio Lower Upper
84 100
49 158.3 135.0 185.0





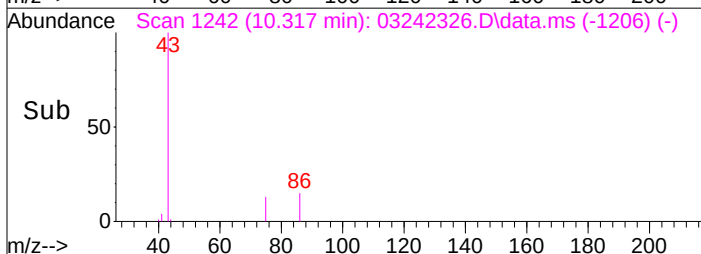
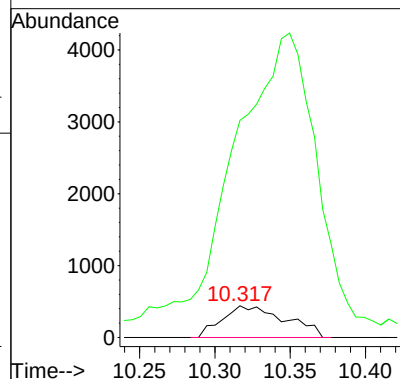
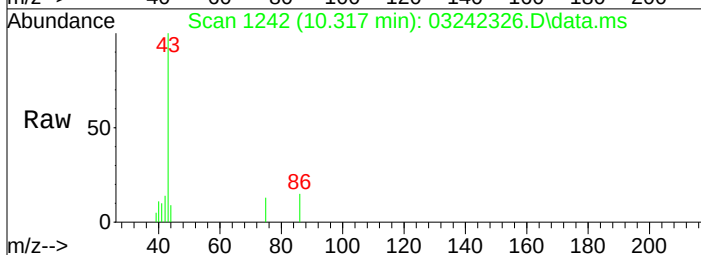
#21
 Trichlorotrifluoroethane
 Concen: 0.37 ng
 RT: 8.99 min Scan# 1001
 Delta R.T. -0.011 min
 Lab File: 03242326.D
 Acq: 24 Mar 2023 20:50

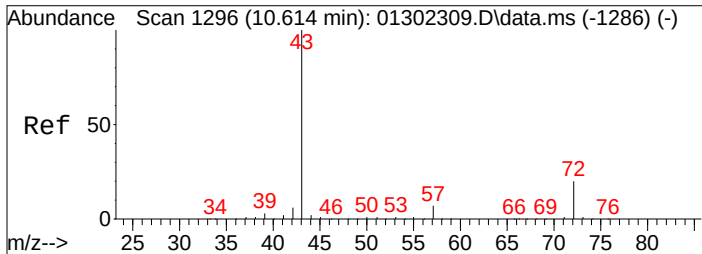
Tgt Ion: 151 Resp: 5139
 Ion Ratio Lower Upper
 151 100
 101 134.6 101.5 141.5



#26
 Vinyl Acetate
 Concen: 0.39 ng
 RT: 10.32 min Scan# 1242
 Delta R.T. -0.049 min
 Lab File: 03242326.D
 Acq: 24 Mar 2023 20:50

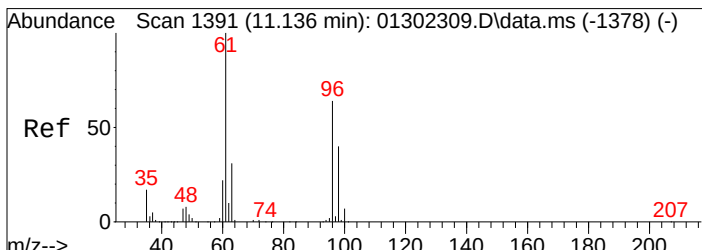
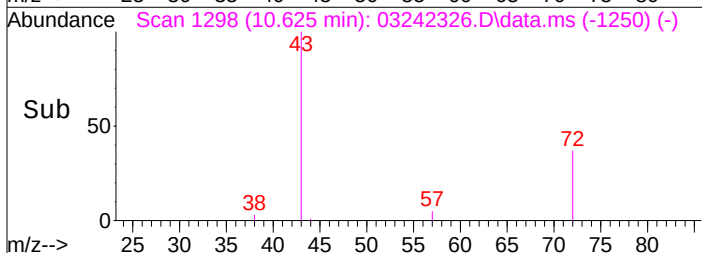
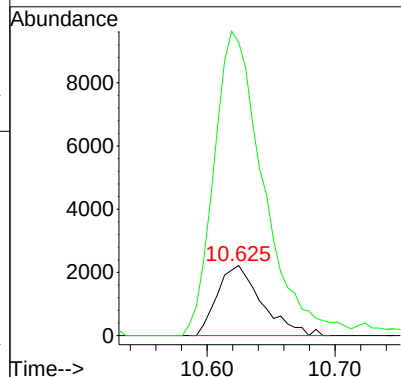
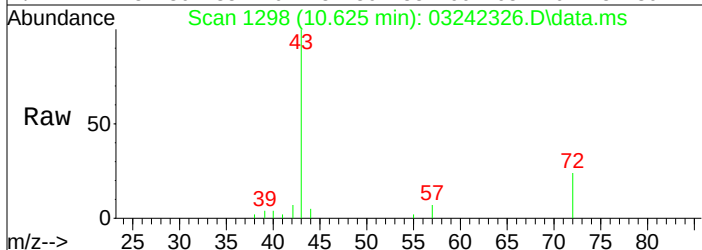
Tgt Ion: 86 Resp: 1288
 Ion Ratio Lower Upper
 86 100
 43 1316.4 1219.3 1259.3#





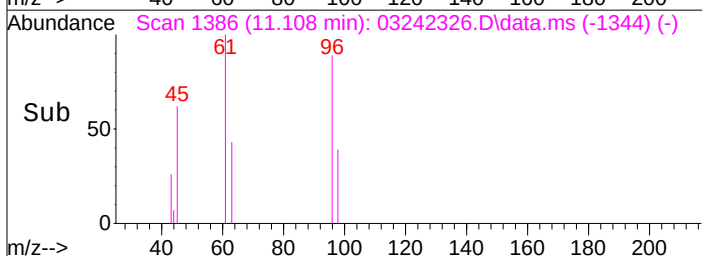
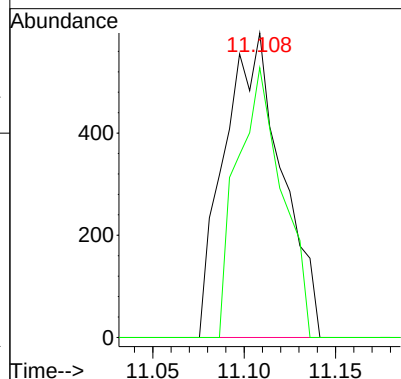
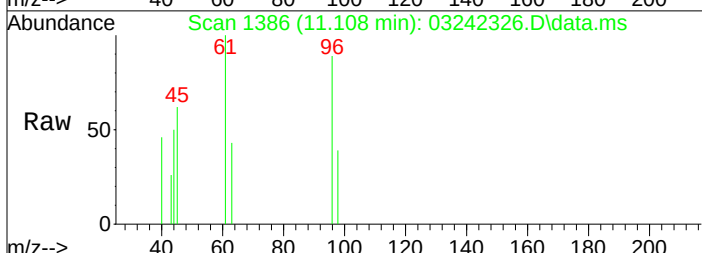
#27
 2-Butanone (MEK)
 Concen: 0.49 ng
 RT: 10.62 min Scan# 1298
 Delta R.T. 0.017 min
 Lab File: 03242326.D
 Acq: 24 Mar 2023 20:50

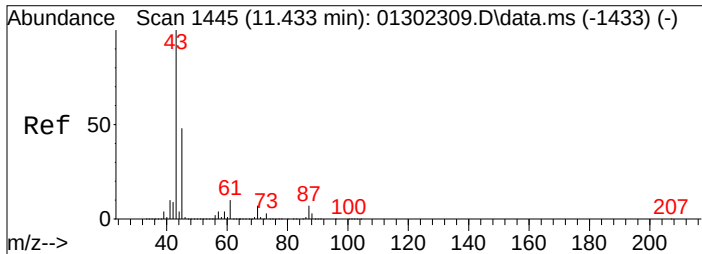
Tgt Ion: 72 Resp: 5353
 Ion Ratio Lower Upper
 72 100
 43 486.1 449.4 489.4



#28
 cis-1,2-Dichloroethene
 Concen: 0.05 ng
 RT: 11.11 min Scan# 1386
 Delta R.T. -0.017 min
 Lab File: 03242326.D
 Acq: 24 Mar 2023 20:50

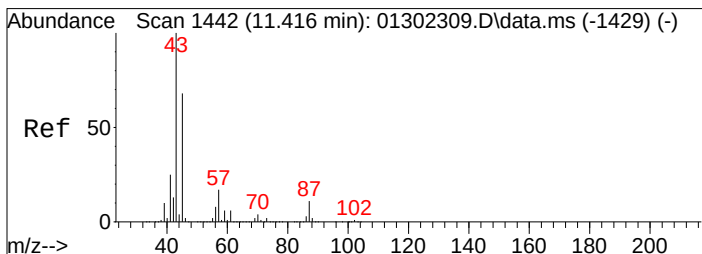
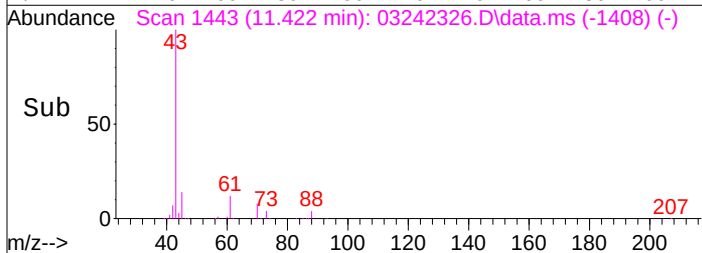
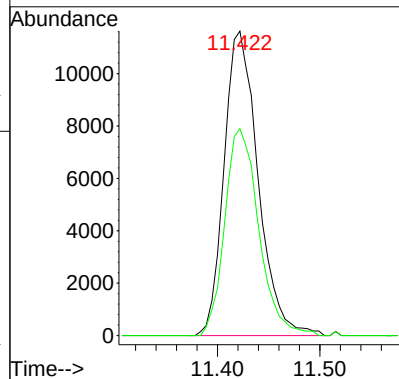
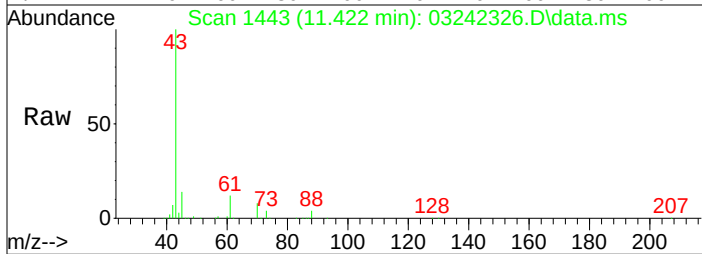
Tgt Ion: 61 Resp: 1307
 Ion Ratio Lower Upper
 61 100
 96 69.0 49.9 89.9





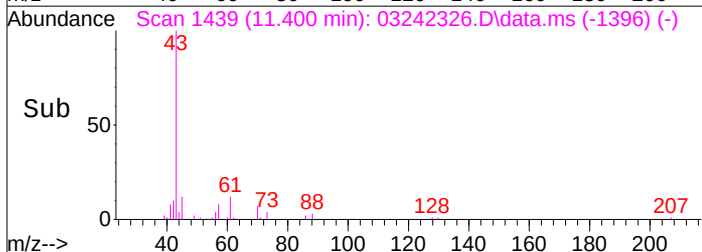
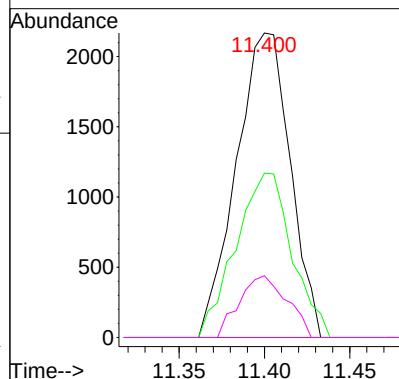
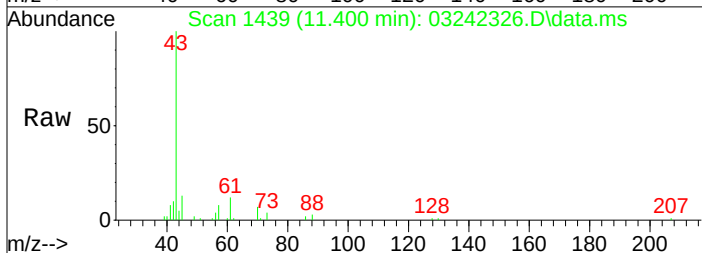
#30
Ethyl Acetate
Concen: 3.79 ng
RT: 11.42 min Scan# 1443
Delta R.T. -0.005 min
Lab File: 03242326.D
Acq: 24 Mar 2023 20:50

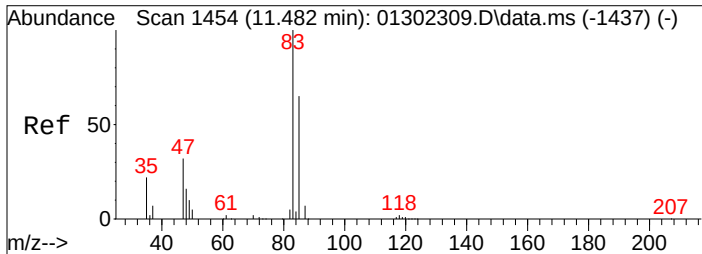
Tgt Ion: 61 Resp: 26848
Ion Ratio Lower Upper
61 100
70 67.9 52.8 92.8



#31
n-Hexane
Concen: 0.13 ng
RT: 11.40 min Scan# 1439
Delta R.T. -0.011 min
Lab File: 03242326.D
Acq: 24 Mar 2023 20:50

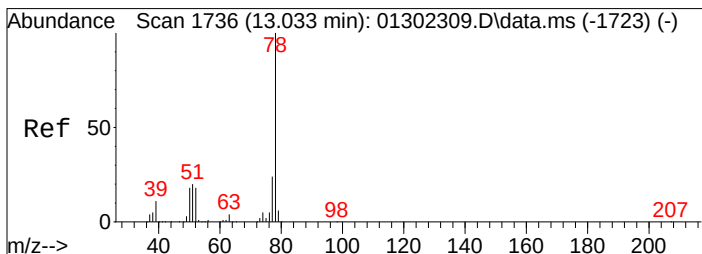
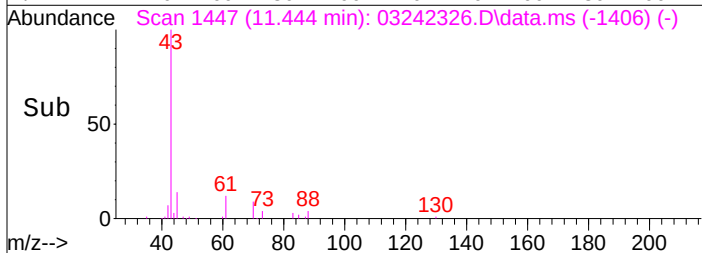
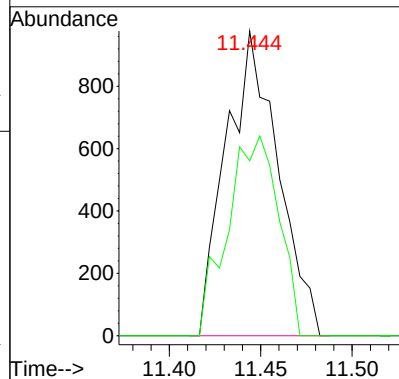
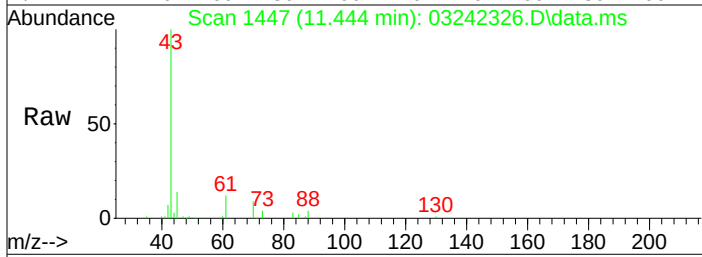
Tgt Ion: 57 Resp: 4760
Ion Ratio Lower Upper
57 100
56 56.3 39.9 59.9
86 17.9 12.3 18.5





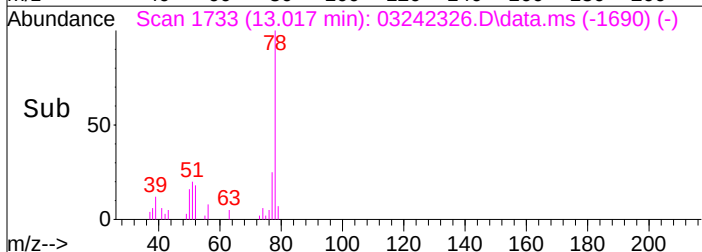
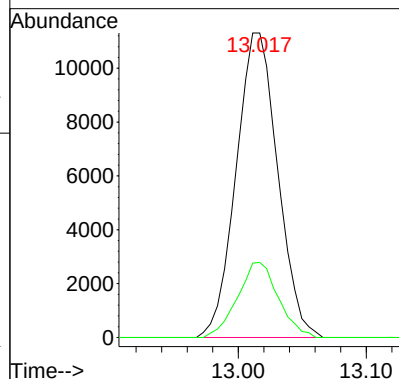
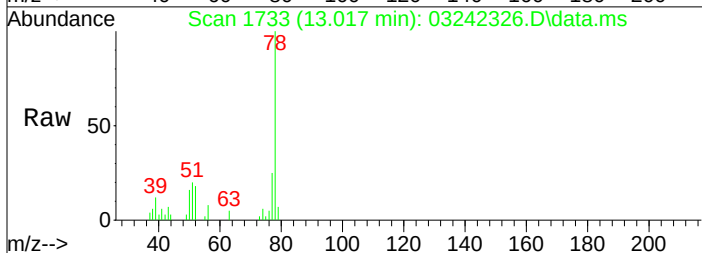
#32
Chloroform
Concen: 0.07 ng
RT: 11.44 min Scan# 1447
Delta R.T. -0.022 min
Lab File: 03242326.D
Acq: 24 Mar 2023 20:50

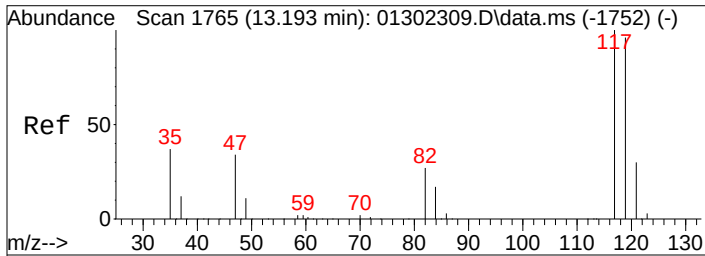
Tgt Ion: 83 Resp: 1932
Ion Ratio Lower Upper
83 100
85 64.6 45.5 85.5



#41
Benzene
Concen: 0.39 ng
RT: 13.02 min Scan# 1733
Delta R.T. -0.011 min
Lab File: 03242326.D
Acq: 24 Mar 2023 20:50

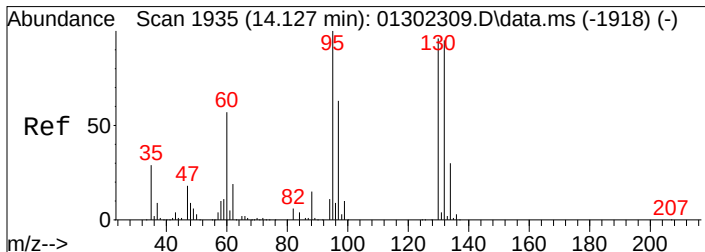
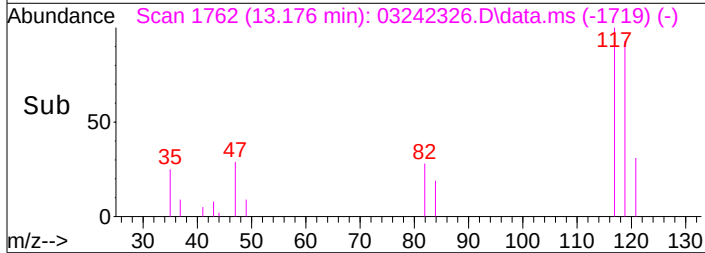
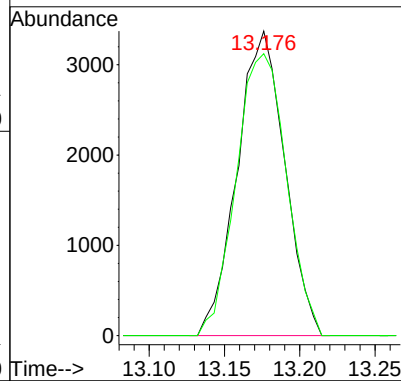
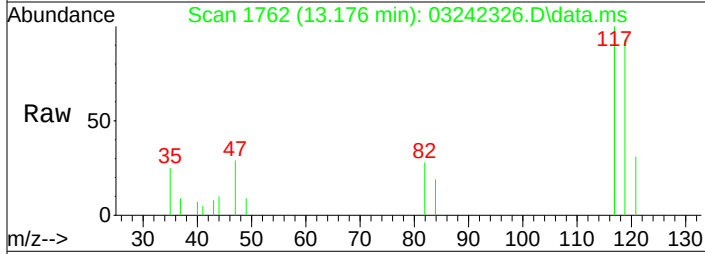
Tgt Ion: 78 Resp: 25591
Ion Ratio Lower Upper
78 100
77 24.2 3.3 43.3





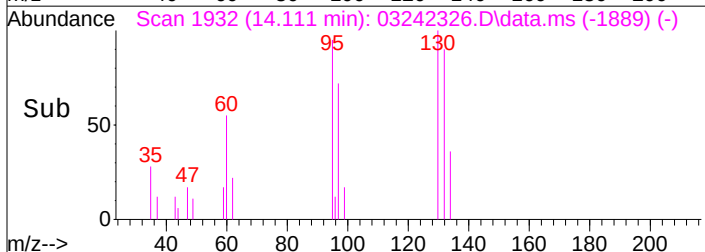
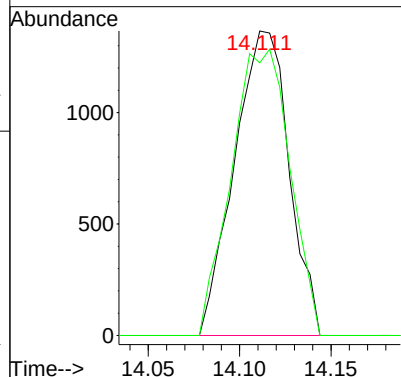
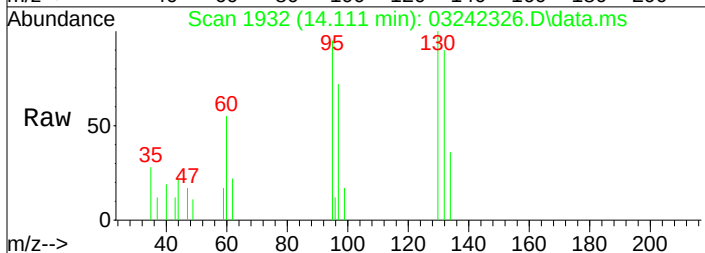
#42
Carbon Tetrachloride
Concen: 0.35 ng
RT: 13.18 min Scan# 1762
Delta R.T. -0.011 min
Lab File: 03242326.D
Acq: 24 Mar 2023 20:50

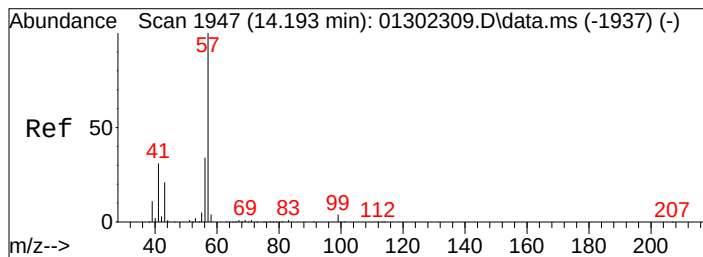
Tgt Ion:117 Resp: 7412
Ion Ratio Lower Upper
117 100
119 97.7 76.2 116.2



#47
Trichloroethene
Concen: 0.16 ng
RT: 14.11 min Scan# 1932
Delta R.T. -0.011 min
Lab File: 03242326.D
Acq: 24 Mar 2023 20:50

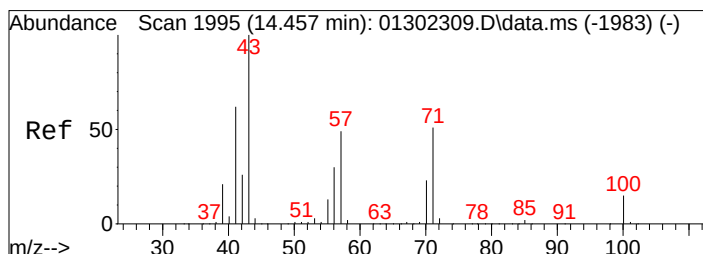
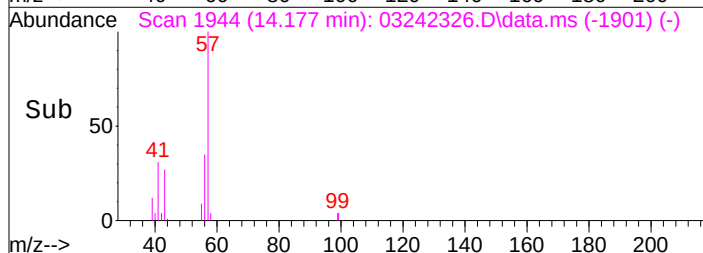
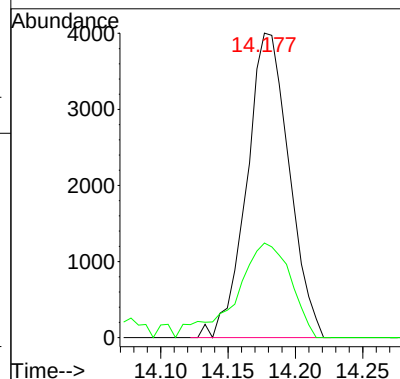
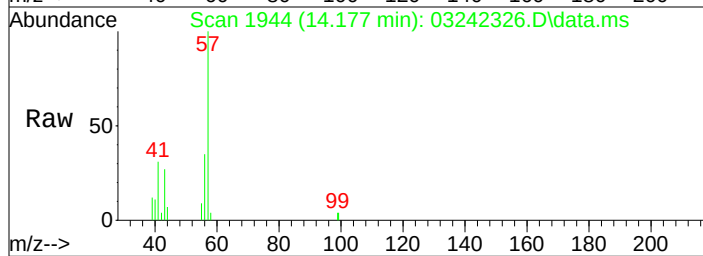
Tgt Ion:130 Resp: 2839
Ion Ratio Lower Upper
130 100
132 100.9 78.7 118.7





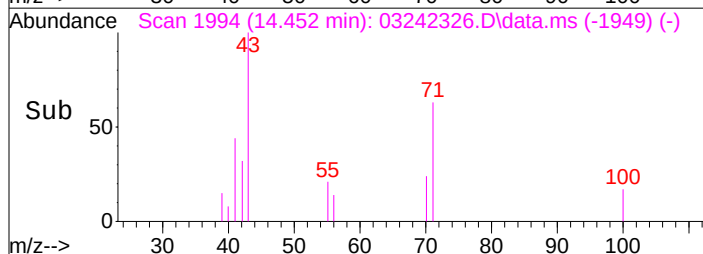
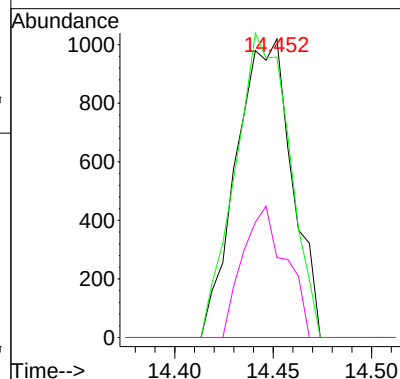
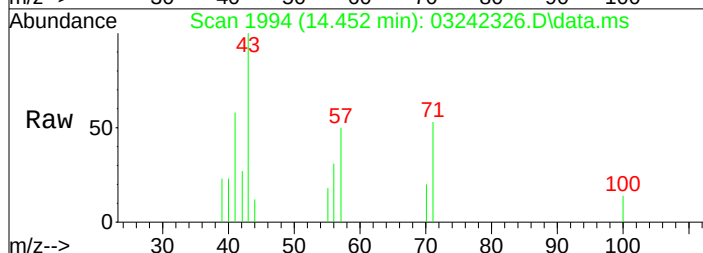
#49
2,2,4-Trimethylpentane (Isooctane)
Concen: 0.10 ng
RT: 14.18 min Scan# 1944
Delta R.T. -0.011 min
Lab File: 03242326.D
Acq: 24 Mar 2023 20:50

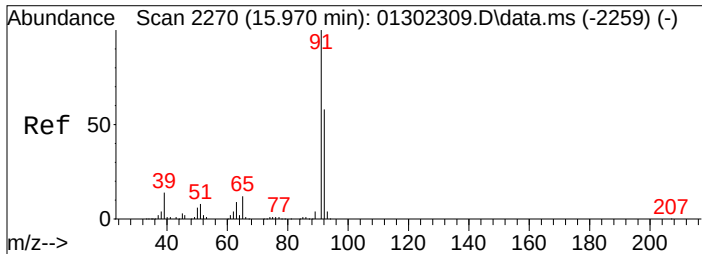
Tgt Ion: 57 Resp: 8748
Ion Ratio Lower Upper
57 100
41 40.0 5.8 45.8



#51
n-Heptane
Concen: 0.10 ng
RT: 14.45 min Scan# 1994
Delta R.T. 0.000 min
Lab File: 03242326.D
Acq: 24 Mar 2023 20:50

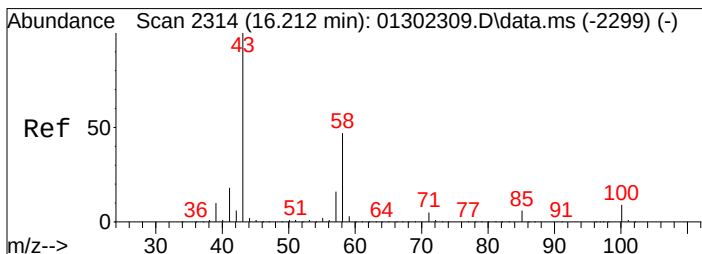
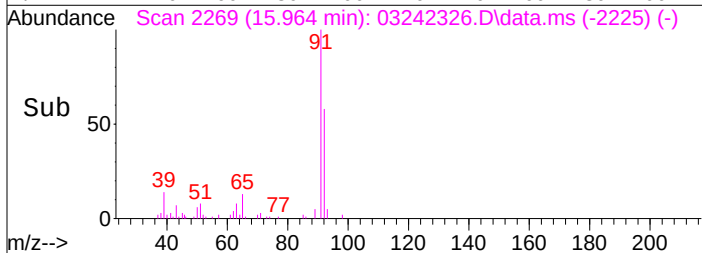
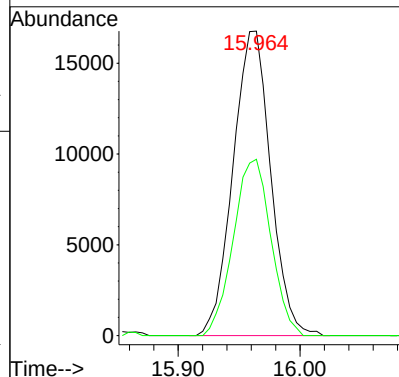
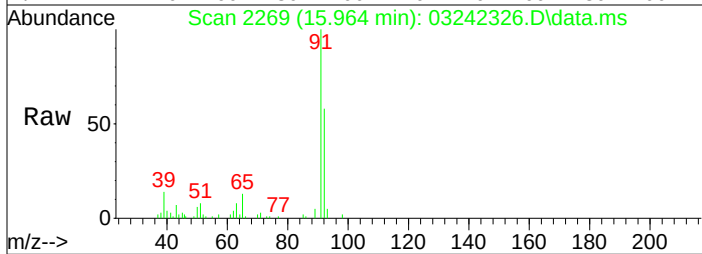
Tgt Ion: 71 Resp: 1994
Ion Ratio Lower Upper
71 100
57 99.7 81.4 121.4
100 34.2 11.8 51.8





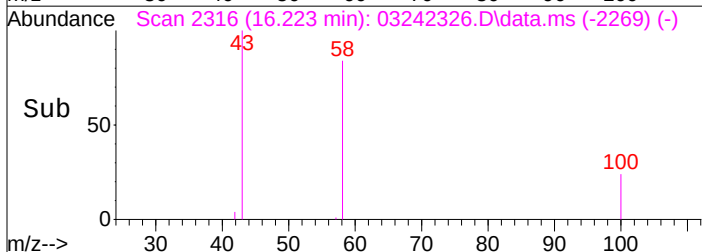
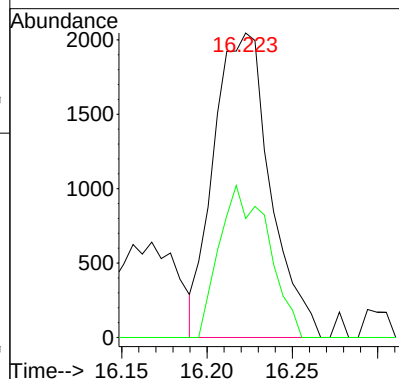
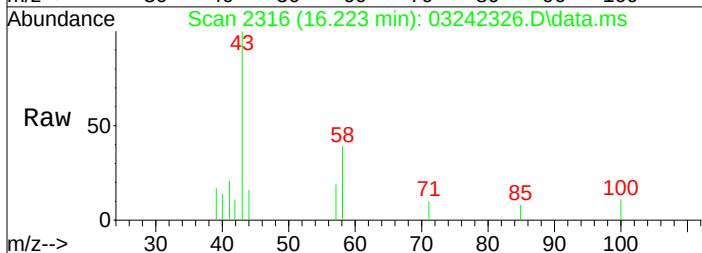
#58
Toluene
Concen: 0.45 ng
RT: 15.96 min Scan# 2269
Delta R.T. -0.005 min
Lab File: 03242326.D
Acq: 24 Mar 2023 20:50

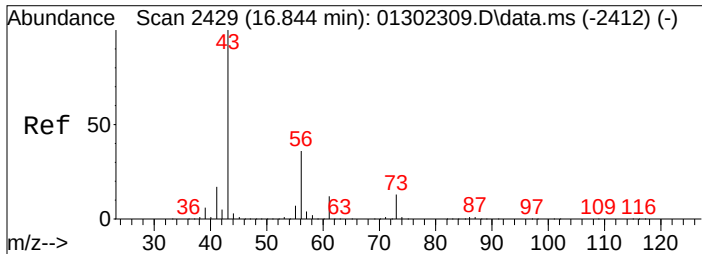
Tgt Ion: 91 Resp: 36050
Ion Ratio Lower Upper
91 100
92 57.7 39.8 79.8



#59
2-Hexanone
Concen: 0.11 ng
RT: 16.22 min Scan# 2316
Delta R.T. 0.011 min
Lab File: 03242326.D
Acq: 24 Mar 2023 20:50

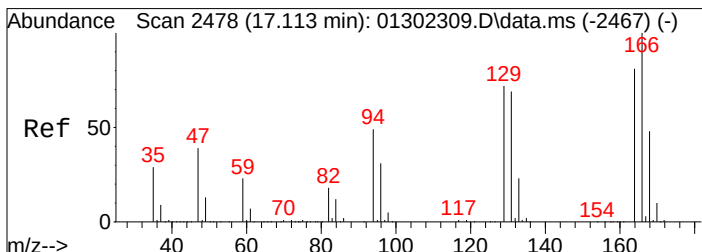
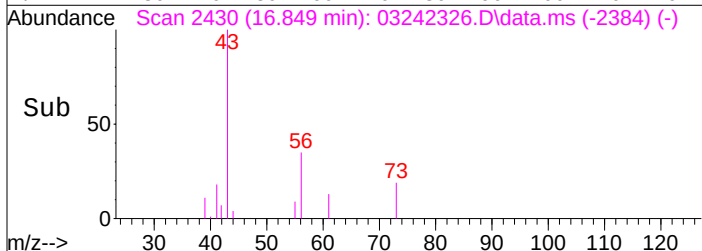
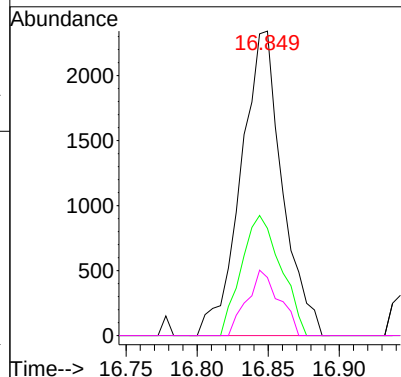
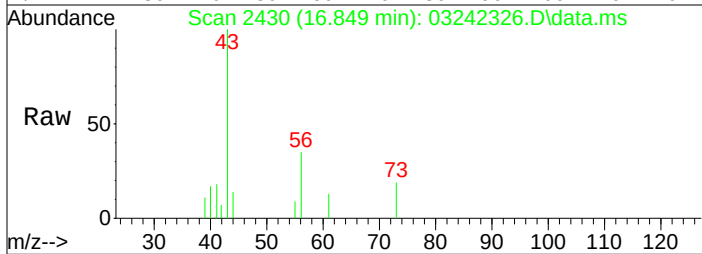
Tgt Ion: 43 Resp: 4701
Ion Ratio Lower Upper
43 100
58 43.3 32.3 72.3





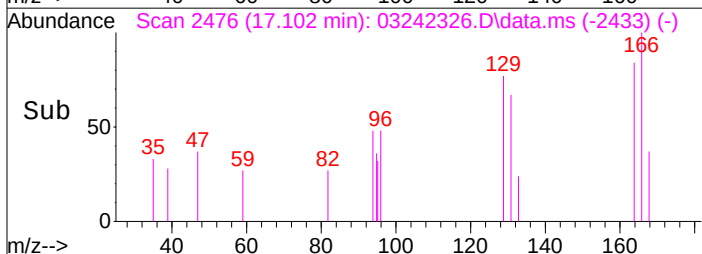
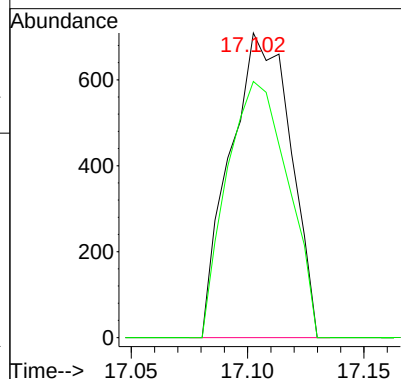
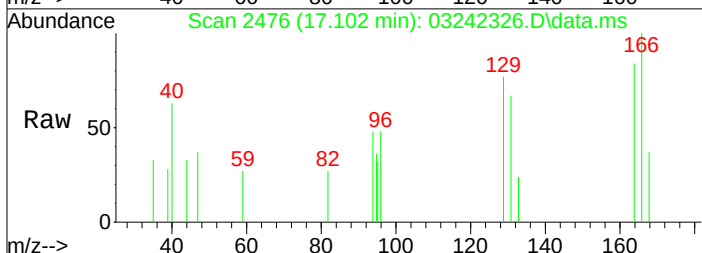
#62
 n-Butyl Acetate
 Concen: 0.10 ng
 RT: 16.85 min Scan# 2430
 Delta R.T. 0.005 min
 Lab File: 03242326.D
 Acq: 24 Mar 2023 20:50

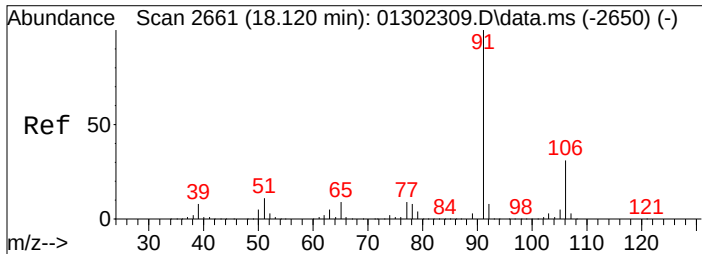
Tgt Ion:	43	Resp:	4739
Ion Ratio		Lower	Upper
43	100		
56	37.8	21.0	61.0
73	16.7	0.0	34.3



#64
 Tetrachloroethene
 Concen: 0.06 ng
 RT: 17.10 min Scan# 2476
 Delta R.T. -0.011 min
 Lab File: 03242326.D
 Acq: 24 Mar 2023 20:50

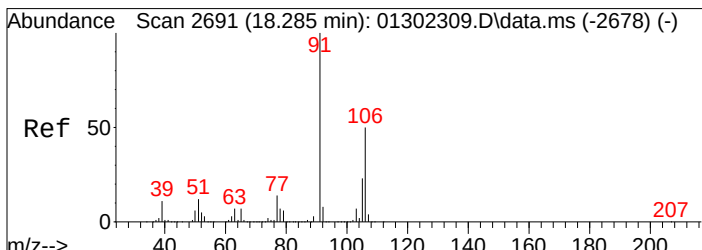
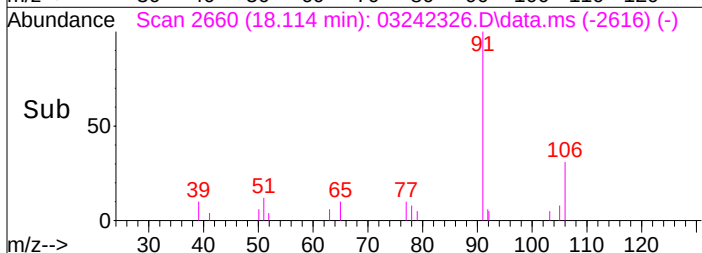
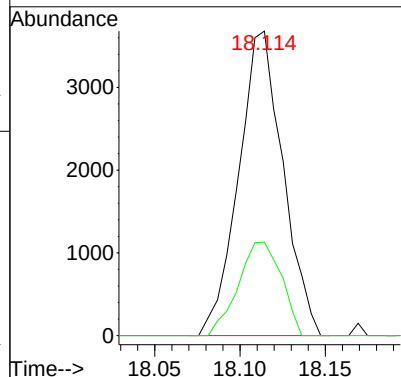
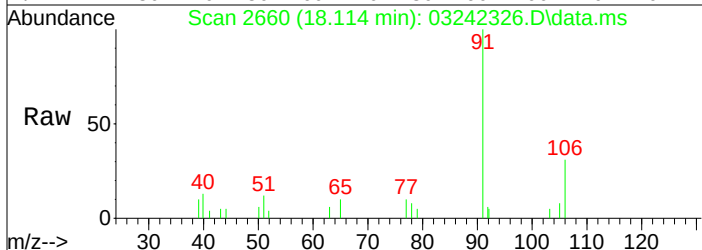
Tgt Ion:	166	Resp:	1279
Ion Ratio		Lower	Upper
166	100		
164	85.0	58.7	98.7





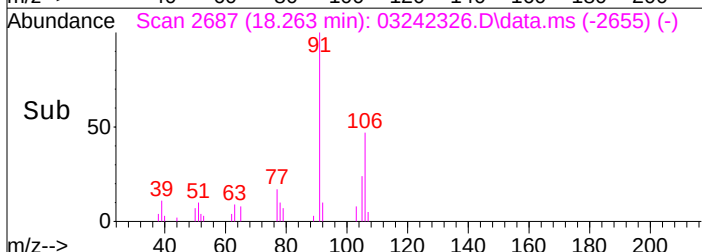
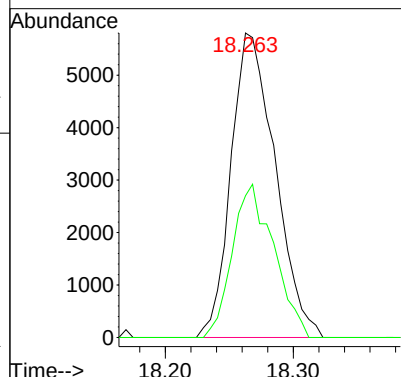
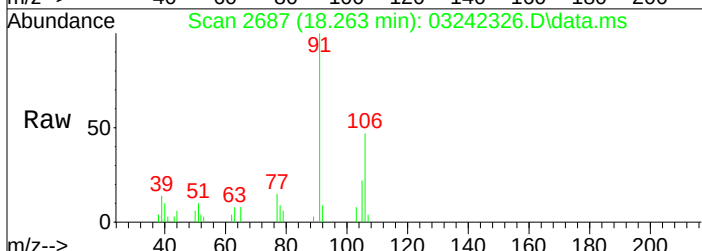
#66
Ethylbenzene
Concen: 0.07 ng
RT: 18.11 min Scan# 2660
Delta R.T. -0.005 min
Lab File: 03242326.D
Acq: 24 Mar 2023 20:50

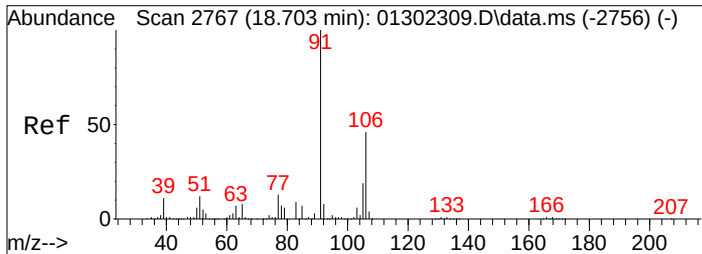
Tgt Ion	Ratio	Resp	Lower	Upper
91	100			
106	29.9	11.5		51.5



#67
m- & p-Xylenes
Concen: 0.20 ng
RT: 18.26 min Scan# 2687
Delta R.T. -0.022 min
Lab File: 03242326.D
Acq: 24 Mar 2023 20:50

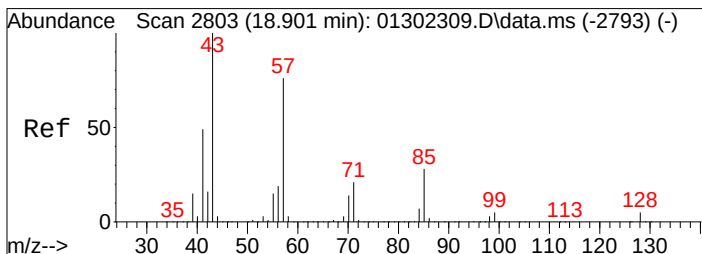
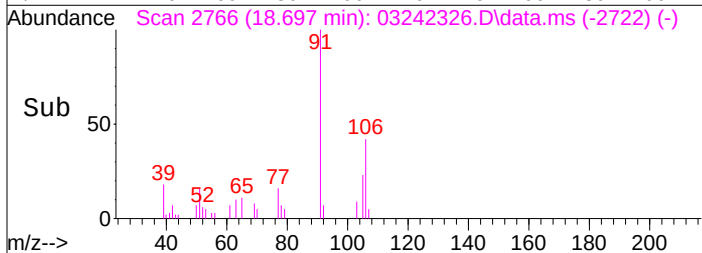
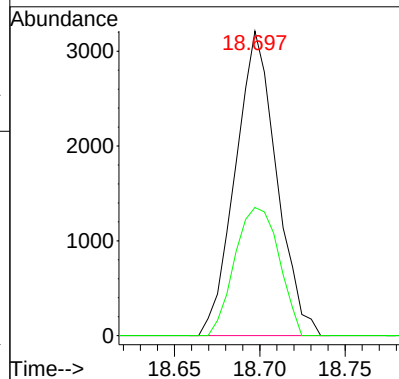
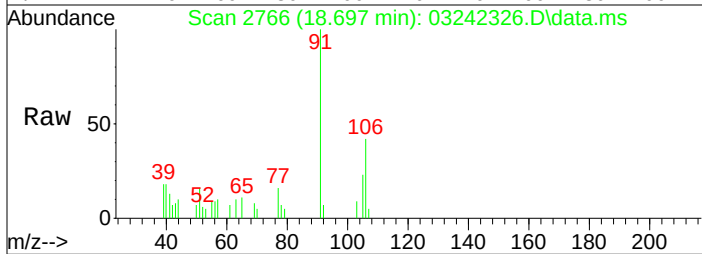
Tgt Ion	Ratio	Resp	Lower	Upper
91	100			
106	47.2	29.2		69.2





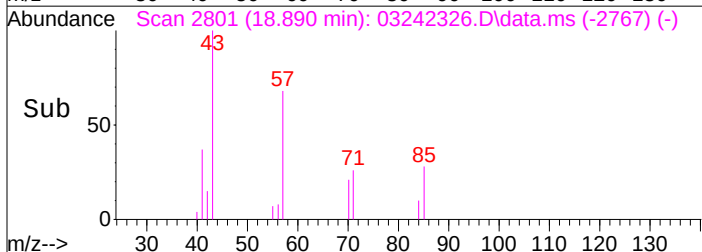
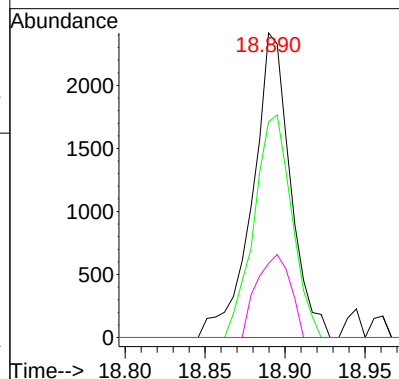
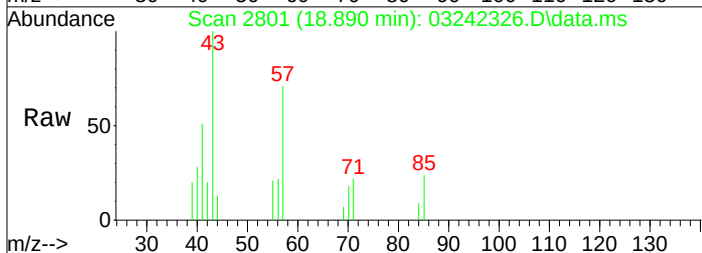
#70
o-Xylene
Concen: 0.08 ng
RT: 18.70 min Scan# 2766
Delta R.T. -0.005 min
Lab File: 03242326.D
Acq: 24 Mar 2023 20:50

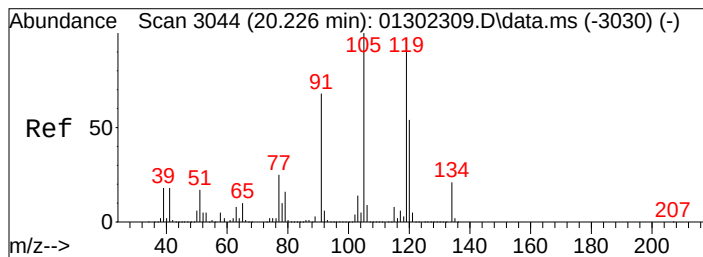
Tgt Ion: 91 Resp: 5395
Ion Ratio Lower Upper
91 100
106 45.2 27.3 67.3



#71
n-Nonane
Concen: 0.08 ng
RT: 18.89 min Scan# 2801
Delta R.T. -0.011 min
Lab File: 03242326.D
Acq: 24 Mar 2023 20:50

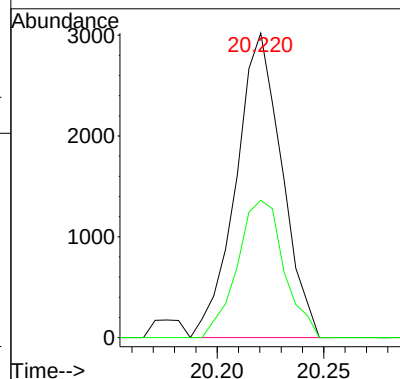
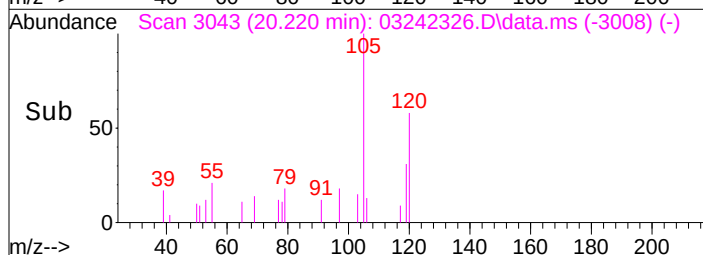
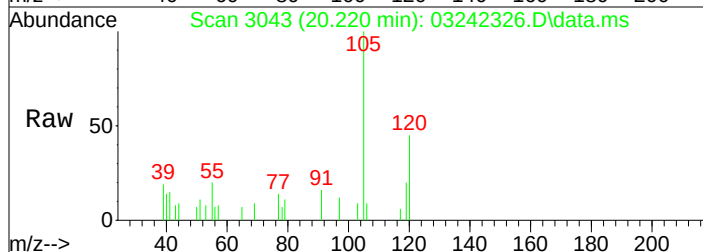
Tgt Ion: 43 Resp: 3999
Ion Ratio Lower Upper
43 100
57 72.6 64.6 104.6
85 24.1 9.6 49.6





#82
 1,2,4-Trimethylbenzene
 Concen: 0.06 ng
 RT: 20.22 min Scan# 3043
 Delta R.T. -0.005 min
 Lab File: 03242326.D
 Acq: 24 Mar 2023 20:50

Tgt Ion:105 Resp: 4518
 Ion Ratio Lower Upper
 105 100
 120 45.9 37.2 77.2



Data File : I:\MS16\DATA\2023_03\24\03242326.D
 Acq On : 24 Mar 2023 20:50
 Sample : P2301250-048 (1000mL)
 Misc : S35-01312301

Vial: 10
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 09:50:59 2023

Quant Method : I:\MS16\METHODS\C16122022.M

Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD

3/27/23

QLast Update : Wed Dec 21 05:02:49 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.28	130	203624	12.500	ng	-0.02
16) 1,4-Difluorobenzene (C_2)	13.41	114	935983	12.500	ng	-0.02
19) Chlorobenzene-d5 (C_3)	17.72	54	207755	12.500	ng	0.00

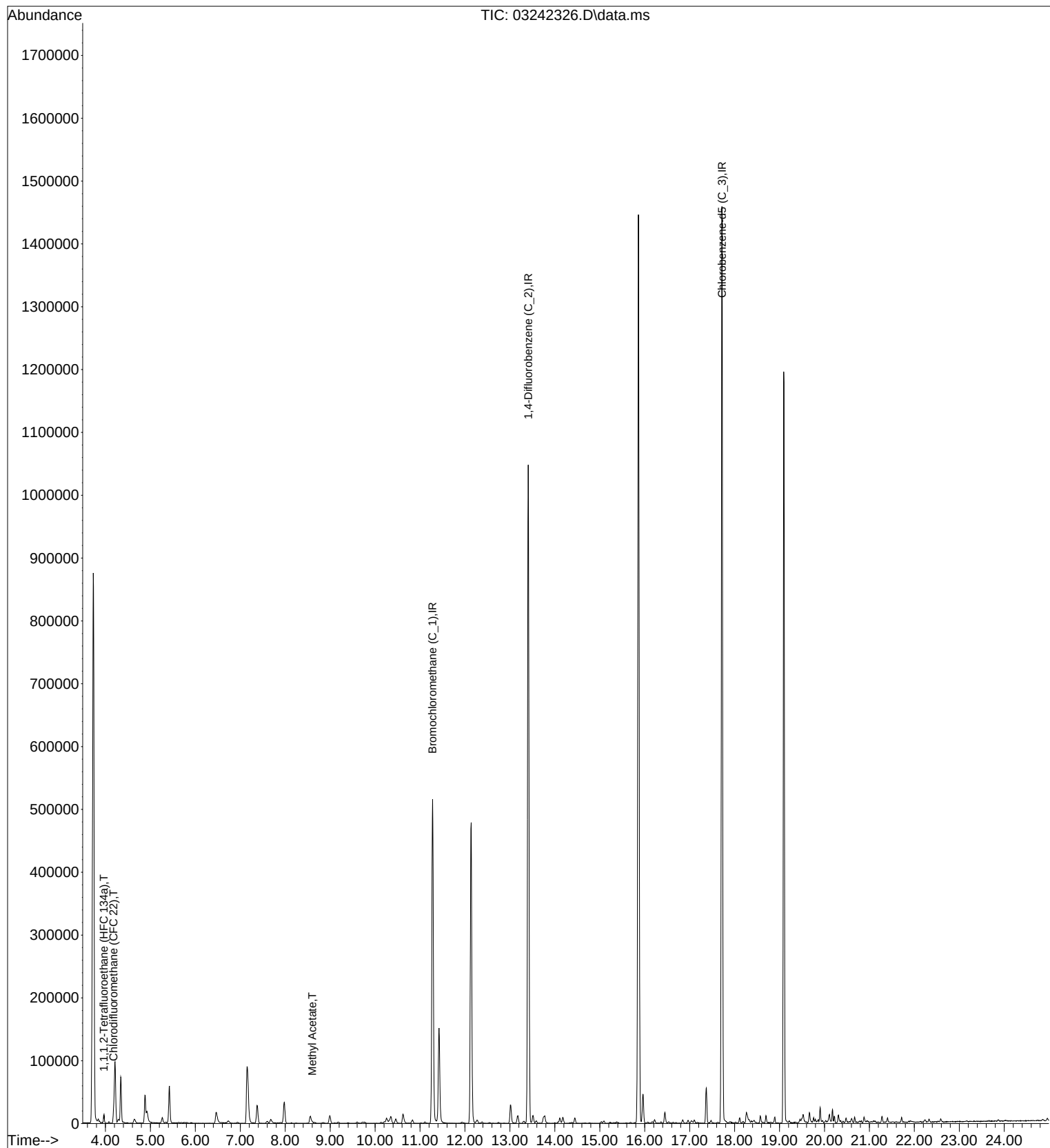
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.87	85	672	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.97	83	6309	0.391	ng	89
4) 1,1-Difluoroethane	4.08	65	874	N.D.		
5) Chlorodifluoromethane ...	4.18	67	2979	0.592	ng	91
6) 1-Chloro-1,1-Difluoroe...	4.65	65	2861	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	8.60	43	5104	0.101	ng	# 91
12) 2-Methylpentane	0.00	71	0	N.D.	d	
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	13.18	84	1452	N.D.		
17) 2,3-Dimethylpentane	13.58	56	1566	N.D.		
18) Dibromomethane	13.83	174	113	N.D.		
20) Methyl Cyclohexane	15.10	55	1524	N.D.		
21) 1,3-Dichloropropane	0.00	76	0	N.D.	d	
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	0.00	91	0	N.D.		
24) 1,2,3-Trichloropropane	0.00	75	0	N.D.		
25) Bromobenzene	19.22	77	64	N.D.		
26) 2-Chlorotoluene	19.66	91	2049	N.D.		
27) 4-Chlorotoluene	19.66	91	2049	N.D.		
28) Indane	20.76	117	404	N.D.		
29) Indene	0.00	115	0	N.D.		
30) 1,2,4,5-Tetramethylben...	21.61	119	173	N.D.		
31) 1,2,3,4-Tetramethylben...	21.64	119	304	N.D.		
32) 1,2,3,5-Tetramethylben...	22.01	119	59	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\24\03242326.D
Acq On : 24 Mar 2023 20:50
Sample : P2301250-048 (1000mL)
Misc : S35-01312301

Vial: 10
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 09:50:59 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG33-1

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-049

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: SC01086

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.84 Final Pressure (psig): 3.68

Container Dilution Factor: 1.33

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.9	0.70	0.12	0.58	0.14	0.023	
74-87-3	Chloromethane	0.29	0.28	0.11	0.14	0.14	0.055	
75-01-4	Vinyl Chloride	ND	0.15	0.076	ND	0.057	0.030	
74-83-9	Bromomethane	ND	0.28	0.098	ND	0.072	0.025	
75-00-3	Chloroethane	ND	0.28	0.088	ND	0.11	0.033	
67-64-1	Acetone	6.8	7.0	1.6	2.9	3.0	0.67	J
75-69-4	Trichlorofluoromethane	1.4	0.69	0.11	0.25	0.12	0.019	
75-35-4	1,1-Dichloroethene	ND	0.15	0.098	ND	0.037	0.025	
75-09-2	Methylene Chloride	4.4	0.70	0.20	1.3	0.20	0.057	
76-13-1	Trichlorotrifluoroethane	0.52	0.72	0.10	0.068	0.094	0.013	J
75-15-0	Carbon Disulfide	ND	1.4	0.21	ND	0.46	0.068	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	0.098	ND	0.037	0.025	
75-34-3	1,1-Dichloroethane	ND	0.15	0.10	ND	0.036	0.026	
1634-04-4	Methyl tert-Butyl Ether	ND	0.72	0.084	ND	0.20	0.023	
78-93-3	2-Butanone (MEK)	1.2	1.4	0.15	0.40	0.47	0.050	J
156-59-2	cis-1,2-Dichloroethene	ND	0.15	0.10	ND	0.037	0.025	
67-66-3	Chloroform	0.11	0.15	0.094	0.022	0.030	0.019	J
107-06-2	1,2-Dichloroethane	0.085	0.15	0.078	0.021	0.036	0.019	J
71-55-6	1,1,1-Trichloroethane	ND	0.15	0.088	ND	0.027	0.016	
71-43-2	Benzene	1.6	0.15	0.10	0.50	0.046	0.032	
56-23-5	Carbon Tetrachloride	0.43	0.15	0.098	0.069	0.023	0.016	
110-82-7	Cyclohexane	0.94	1.4	0.20	0.27	0.41	0.058	J
78-87-5	1,2-Dichloropropane	ND	0.15	0.088	ND	0.032	0.019	
75-27-4	Bromodichloromethane	ND	0.15	0.10	ND	0.022	0.015	
79-01-6	Trichloroethene	1.6	0.15	0.096	0.30	0.027	0.018	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG33-1

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-049

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: SC01086

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.84 Final Pressure (psig): 3.68

Container Dilution Factor: 1.33

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.72	0.11	ND	0.16	0.024	
108-10-1	4-Methyl-2-pentanone	ND	1.5	0.097	ND	0.36	0.024	
10061-02-6	trans-1,3-Dichloropropene	ND	0.68	0.15	ND	0.15	0.032	
79-00-5	1,1,2-Trichloroethane	ND	0.15	0.072	ND	0.027	0.013	
108-88-3	Toluene	6.1	0.70	0.086	1.6	0.19	0.023	
591-78-6	2-Hexanone	0.15	1.5	0.088	0.037	0.36	0.021	J
124-48-1	Dibromochloromethane	ND	0.15	0.093	ND	0.017	0.011	
106-93-4	1,2-Dibromoethane	ND	0.15	0.082	ND	0.019	0.011	
127-18-4	Tetrachloroethene	0.12	0.15	0.092	0.018	0.022	0.014	J
108-90-7	Chlorobenzene	ND	0.70	0.094	ND	0.15	0.021	
100-41-4	Ethylbenzene	0.25	0.70	0.10	0.058	0.16	0.023	J
179601-23-1	m,p-Xylenes	0.80	1.5	0.19	0.18	0.34	0.043	J
75-25-2	Bromoform	ND	0.72	0.15	ND	0.069	0.014	
100-42-5	Styrene	0.15	0.70	0.11	0.034	0.17	0.027	J
95-47-6	o-Xylene	0.29	0.70	0.10	0.067	0.16	0.024	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	0.098	ND	0.021	0.014	
98-82-8	Cumene	ND	0.72	0.10	ND	0.15	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.70	0.11	ND	0.12	0.018	
106-46-7	1,4-Dichlorobenzene	ND	0.70	0.11	ND	0.12	0.018	
95-50-1	1,2-Dichlorobenzene	ND	0.72	0.11	ND	0.12	0.017	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.5	0.13	ND	0.15	0.014	
120-82-1	1,2,4-Trichlorobenzene	ND	1.5	0.17	ND	0.20	0.023	
79-20-9	Methyl Acetate	0.32	0.67	0.32	0.11	0.22	0.11	J, X
108-87-2	Methylcyclohexane	ND	0.67	0.35	ND	0.17	0.086	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS16\DATA\2023_03\24\03242327.D
 Acq On : 24 Mar 2023 21:24
 Sample : P2301250-049 (1000mL)
 Misc : S35-01312301

Vial: 11
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 09:12:46 2023

Quant Method : I:\MS16\METHODS\R16122022.M

3/27/23

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.30	130	200235	12.500	ng	0.00
37) 1,4-Difluorobenzene (IS2)	13.42	114	919675	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	17.72	54	205517	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.15	65	363138	13.637	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	109.12%	
57) Toluene-d8 (SS2)	15.86	98	1060753	11.789	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	94.32%	
73) Bromofluorobenzene (SS3)	19.10	174	319432	11.383	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	91.04%	

Target Compounds

						Qvalue
2) Propene	4.17	42	20936	0.775	ng	94
3) Dichlorodifluoromethan...	4.34	85	64435	2.153	ng	99
4) Chloromethane	4.63	50	6029	0.215	ng	94
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	1581	0.095	ng	77
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.34	54	791	N.D.		
8) Bromomethane	5.79	94	420	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.48	45	121609	6.311	ng	99
11) Acetonitrile	6.75	41	5413	0.112	ng	# 65
12) Acrolein	6.93	56	2754	0.202	ng	97
13) Acetone	7.15	58	75474	5.121	ng	# 1
14) Trichlorofluoromethane	7.38	101	28835	1.044	ng	100
15) 2-Propanol (Isopropanol)	7.65	45	79335	1.546	ng	86
16) Acrylonitrile	7.90	53	132	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	8.57	84	53332	3.274	ng	92
20) 3-Chloro-1-propene (Al...	8.66	41	982	N.D.		
21) Trichlorotrifluoroethane	9.00	151	5399	0.393	ng	92
22) Carbon Disulfide	0.00	76	0	N.D.	d	
23) trans-1,2-Dichloroethene	9.85	61	427	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	10.26	73	698	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	10.62	72	9401	0.880	ng	99
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	11.42	61	1345648	192.570	ng	96
31) n-Hexane	11.41	57	12162	0.348	ng	# 76
32) Chloroform	11.46	83	2188	0.082	ng	98
34) Tetrahydrofuran (THF)	11.92	72	322	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	12.26	62	1384	0.064	ng	84
38) 1,1,1-Trichloroethane	12.53	97	181	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.02	78	78177	1.207	ng	99
42) Carbon Tetrachloride	13.18	117	6811	0.324	ng	93
43) Cyclohexane	13.31	84	19424	0.710	ng	92
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	13.87	63	690	N.D.		
46) Bromodichloromethane	14.08	83	101	N.D.		
47) Trichloroethene	14.12	130	21602	1.227	ng	98
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	14.18	57	9447	0.108	ng	68
50) Methyl Methacrylate	14.33	100	776	0.106	ng	# 74

Data File : I:\MS16\DATA\2023_03\24\03242327.D
 Acq On : 24 Mar 2023 21:24
 Sample : P2301250-049 (1000mL)
 Misc : S35-01312301

Vial: 11
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 09:12:46 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

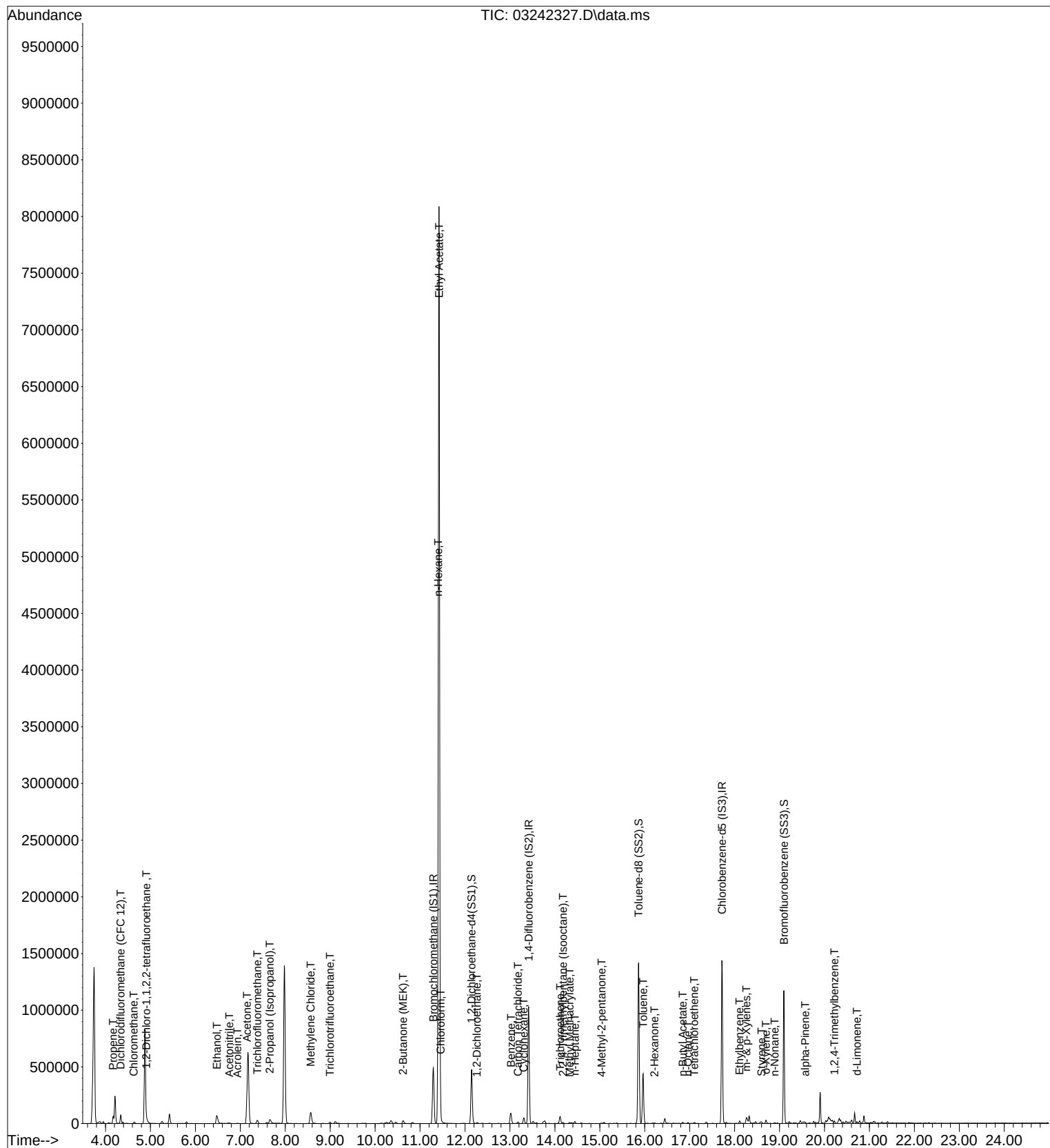
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.45	71	4640	0.244	ng	90
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	15.04	58	907	0.060	ng	# 12
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.96	91	360785	4.578	ng	99
59) 2-Hexanone	16.22	43	4785	0.115	ng	77
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.84	43	10483	0.221	ng	96
63) n-Octane	16.96	57	1678	0.083	ng	96
64) Tetrachloroethene	17.10	166	1819	0.091	ng	94
65) Chlorobenzene	17.76	112	720	N.D.		
66) Ethylbenzene	18.11	91	16883	0.190	ng	99
67) m- & p-Xylenes	18.26	91	42387	0.602	ng	99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.60	104	5451	0.110	ng	97
70) o-Xylene	18.70	91	15074	0.218	ng	99
71) n-Nonane	18.89	43	4134	0.084	ng	83
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	19.22	105	1505	N.D.		
75) alpha-Pinene	19.57	93	3861	0.172	ng	# 1
76) n-Propylbenzene	19.66	91	2911	N.D.		
77) 3-Ethyltoluene	20.22	105	8144	No Calib	#	
78) 4-Ethyltoluene	19.79	105	2652	N.D.		
79) 1,3,5-Trimethylbenzene	19.86	105	2490	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.22	105	8144	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.22	105	8144	0.115	ng	84
83) n-Decane	20.22	58	147	No Calib	#	
84) Benzyl Chloride	20.42	91	244	N.D.		
85) 1,3-Dichlorobenzene	20.41	146	319	N.D.		
86) 1,4-Dichlorobenzene	20.41	146	319	N.D.		
87) sec-Butylbenzene	20.46	105	483	N.D.		
88) 4-Isopropyltoluene (p-...	20.59	119	4247	N.D.		
89) 1,2,3-Trimethylbenzene	20.22	105	8144	No Calib	#	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	20.72	68	3461	0.171	ng	97
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	22.23	180	182	N.D.		
95) Naphthalene	22.33	128	1096	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	18.19	55	835	No Calib	#	
99) tert-Butylbenzene	20.22	119	1278	N.D.		
100) n-Butylbenzene	20.95	91	1365	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\24\03242327.D
Acq On : 24 Mar 2023 21:24
Sample : P2301250-049 (1000mL)
Misc : S35-01312301

Vial: 11
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 09:12:46 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



Data File : I:\MS16\DATA\2023_03\24\03242327.D
 Acq On : 24 Mar 2023 21:24
 Sample : P2301250-049 (1000mL)
 Misc : S35-01312301

Vial: 11
 Operator: WA
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Quant Time: Mar 27 09:12:46 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.30	130	200235	12.500	ng	0.00
37) 1,4-Difluorobenzene (IS2)	13.42	114	919675	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	17.72	54	205517	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.15	65	363138	13.637	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	109.12%
57) Toluene-d8 (SS2)	15.86	98	1060753	11.789	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.32%
73) Bromofluorobenzene (SS3)	19.10	174	319432	11.383	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	91.04%

Target Compounds

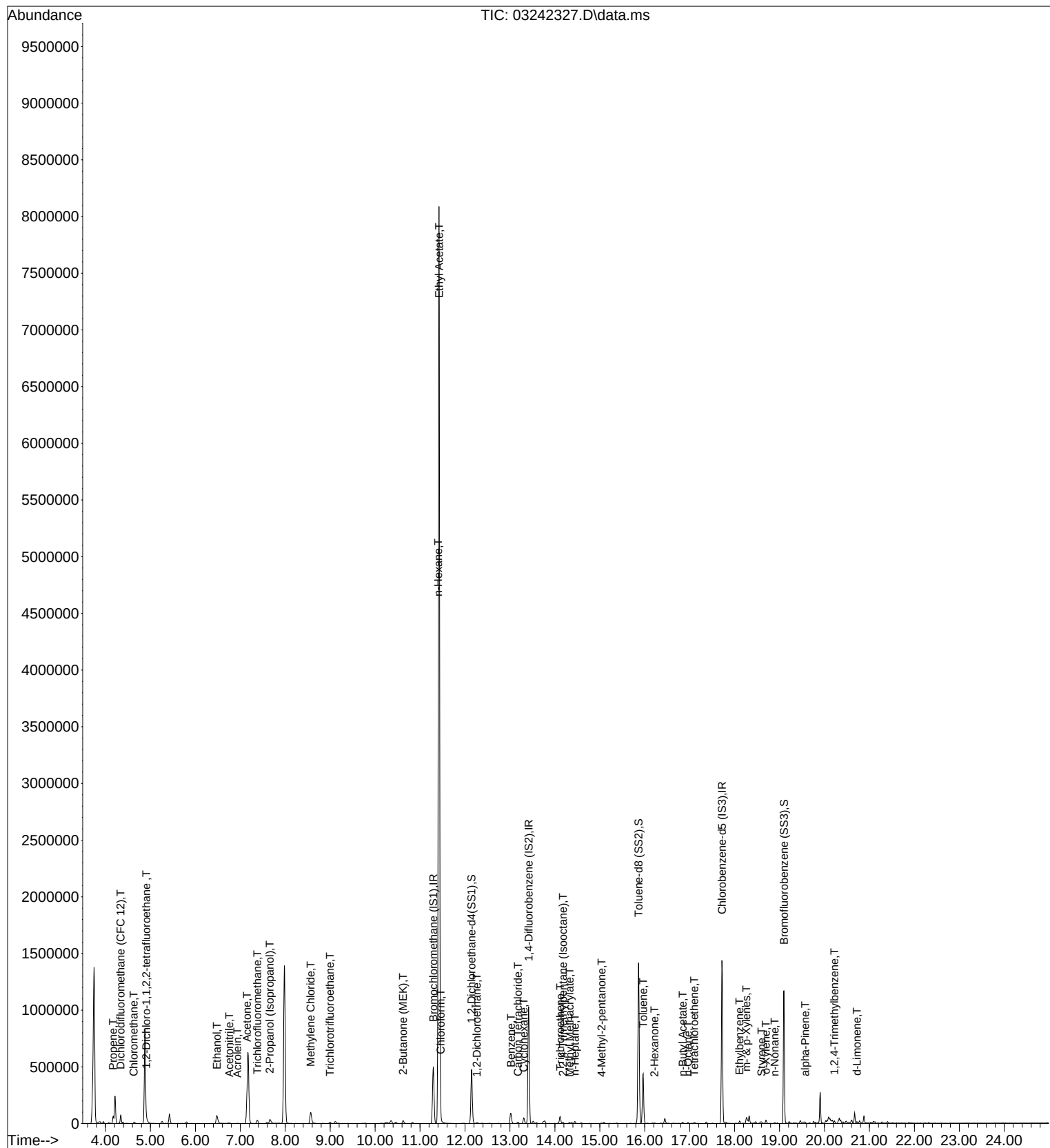
						Qvalue
2) Propene	4.17	42	20936	0.775	ng	94
3) Dichlorodifluoromethan...	4.34	85	64435	2.153	ng	99
4) Chloromethane	4.63	50	6029	0.215	ng	94
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	1581	0.095	ng	77
10) Ethanol	6.48	45	121609	6.311	ng	99
11) Acetonitrile	6.75	41	5413	0.112	ng	# 65
12) Acrolein	6.93	56	2754	0.202	ng	97
13) Acetone	7.15	58	75474	5.121	ng	# 1
14) Trichlorofluoromethane	7.38	101	28835	1.044	ng	100
15) 2-Propanol (Isopropanol)	7.65	45	79335	1.546	ng	86
19) Methylene Chloride	8.57	84	53332	3.274	ng	92
21) Trichlorotrifluoroethane	9.00	151	5399	0.393	ng	92
27) 2-Butanone (MEK)	10.62	72	9401	0.880	ng	99
30) Ethyl Acetate	11.42	61	1345648	192.570	ng	96
31) n-Hexane	11.41	57	12162	0.348	ng	# 76
32) Chloroform	11.46	83	2188	0.082	ng	98
36) 1,2-Dichloroethane	12.26	62	1384	0.064	ng	84
41) Benzene	13.02	78	78177	1.207	ng	99
42) Carbon Tetrachloride	13.18	117	6811	0.324	ng	93
43) Cyclohexane	13.31	84	19424	0.710	ng	92
47) Trichloroethene	14.12	130	21602	1.227	ng	98
49) 2,2,4-Trimethylpentane...	14.18	57	9447	0.108	ng	68
50) Methyl Methacrylate	14.33	100	776	0.106	ng	# 74
51) n-Heptane	14.45	71	4640	0.244	ng	90
53) 4-Methyl-2-pentanone	15.04	58	907	0.060	ng	# 12
58) Toluene	15.96	91	360785	4.578	ng	99
59) 2-Hexanone	16.22	43	4785	0.115	ng	77
62) n-Butyl Acetate	16.84	43	10483	0.221	ng	96
63) n-Octane	16.96	57	1678	0.083	ng	96
64) Tetrachloroethene	17.10	166	1819	0.091	ng	94
66) Ethylbenzene	18.11	91	16883	0.190	ng	99
67) m- & p-Xylenes	18.26	91	42387	0.602	ng	99
69) Styrene	18.60	104	5451	0.110	ng	97
70) o-Xylene	18.70	91	15074	0.218	ng	99
71) n-Nonane	18.89	43	4134	0.084	ng	83
75) alpha-Pinene	19.57	93	3861	0.172	ng	# 1
82) 1,2,4-Trimethylbenzene	20.22	105	8144	0.115	ng	84
91) d-Limonene	20.72	68	3461	0.171	ng	97

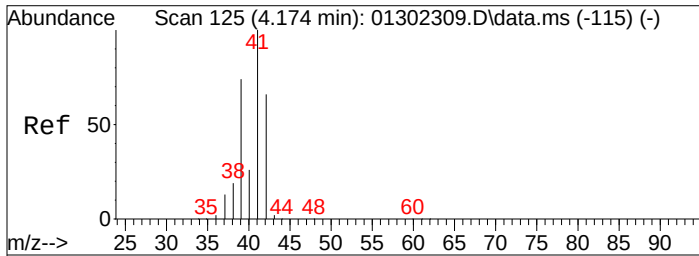
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS16\DATA\2023_03\24\03242327.D
Acq On : 24 Mar 2023 21:24
Sample : P2301250-049 (1000mL)
Misc : S35-01312301

Vial: 11
Operator: WA
Inst : GCMS-16

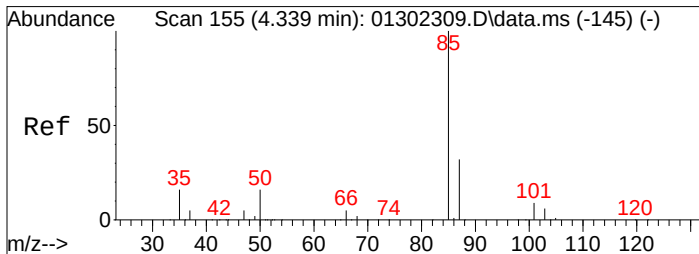
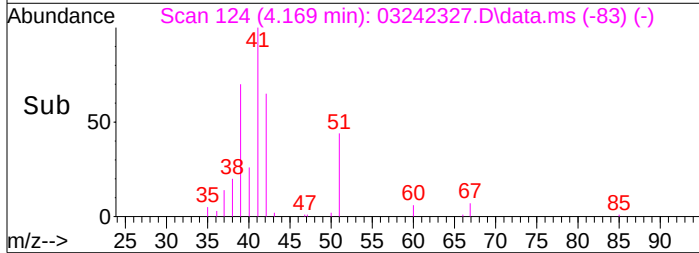
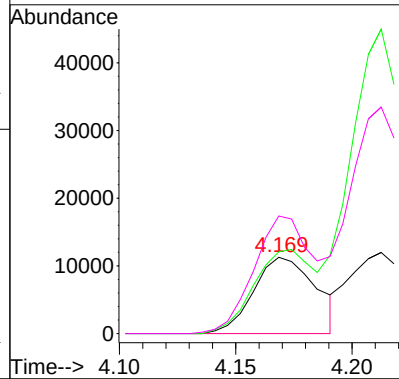
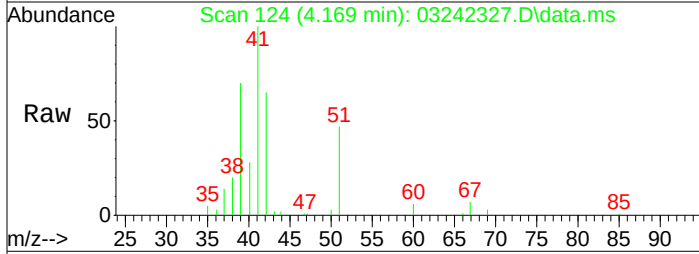
Quant Time: Mar 27 09:12:46 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M





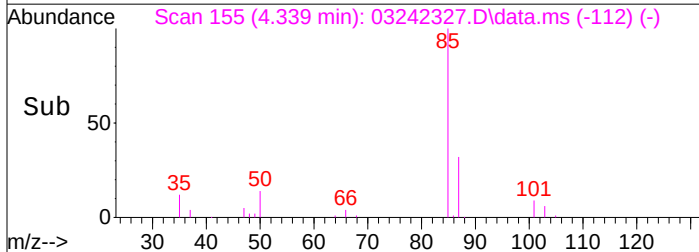
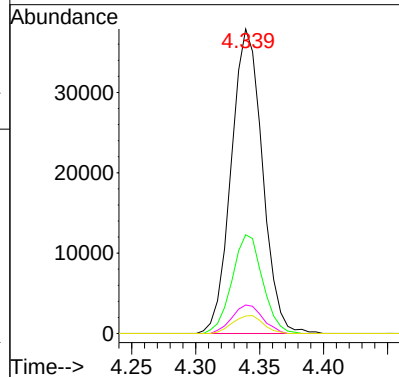
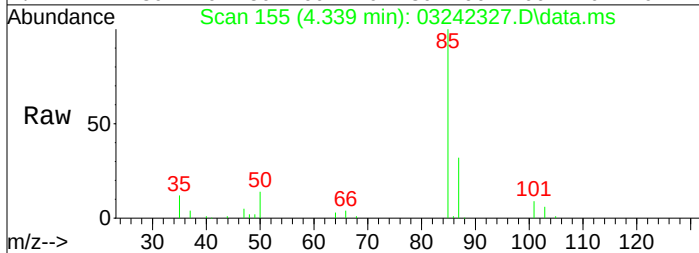
#2
 Propene
 Concen: 0.78 ng
 RT: 4.17 min Scan# 124
 Delta R.T. -0.022 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 21:24

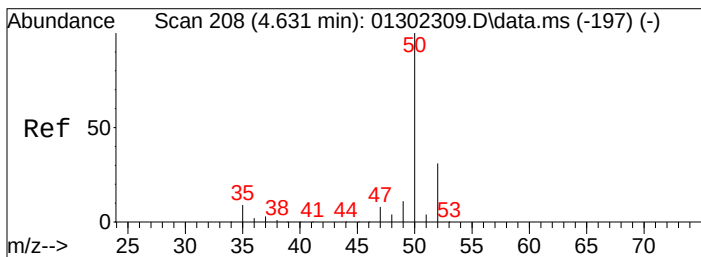
Tgt Ion: 42 Resp: 20936
 Ion Ratio Lower Upper
 42 100
 39 105.6 87.4 127.4
 41 140.1 131.0 171.0



#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 2.15 ng
 RT: 4.34 min Scan# 155
 Delta R.T. -0.011 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 21:24

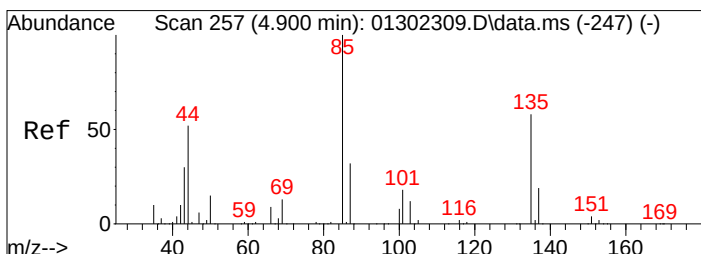
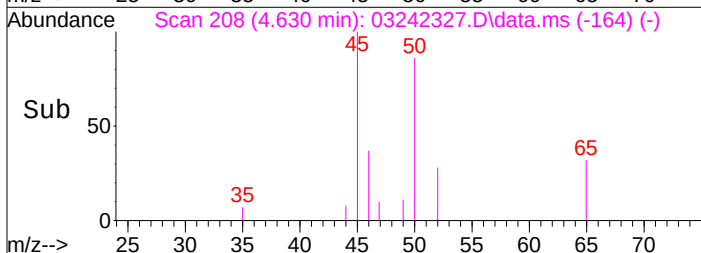
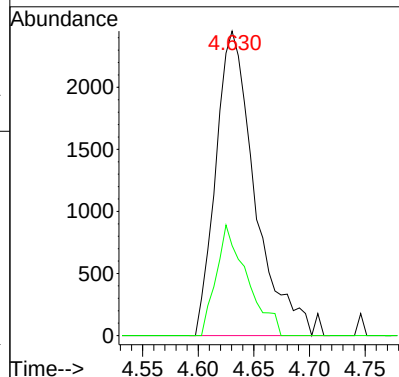
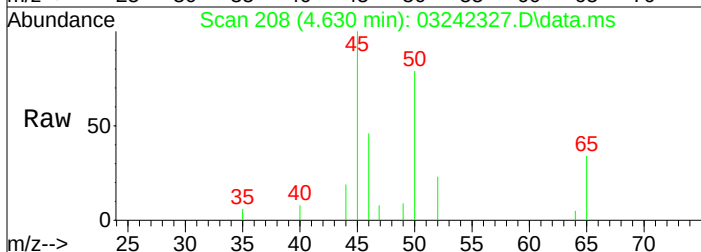
Tgt Ion: 85 Resp: 64435
 Ion Ratio Lower Upper
 85 100
 87 31.7 12.1 52.1
 101 9.2 0.0 29.3
 103 5.8 0.0 26.0





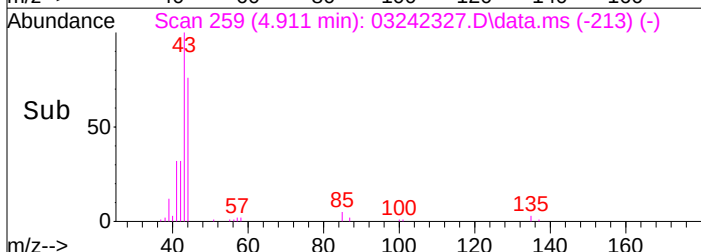
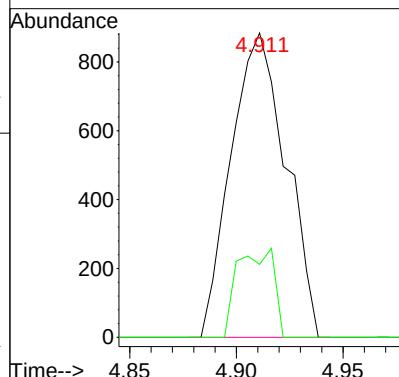
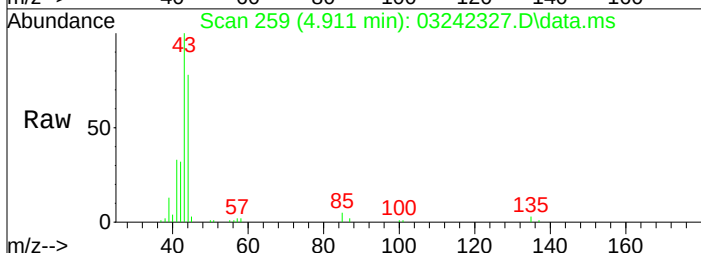
#4
 Chloromethane
 Concen: 0.22 ng
 RT: 4.63 min Scan# 208
 Delta R.T. -0.005 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 21:24

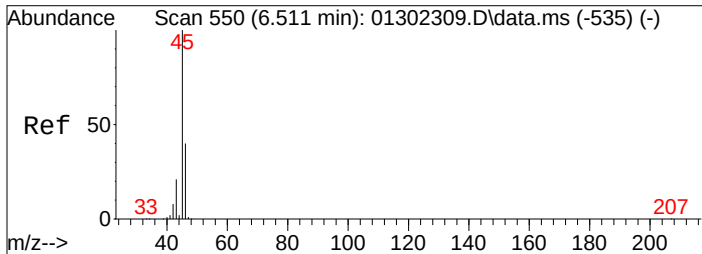
Tgt Ion: 50 Resp: 6029
 Ion Ratio Lower Upper
 50 100
 52 28.7 12.2 52.2



#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.09 ng
 RT: 4.91 min Scan# 259
 Delta R.T. 0.006 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 21:24

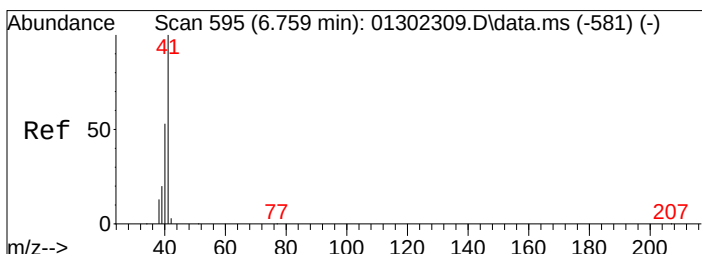
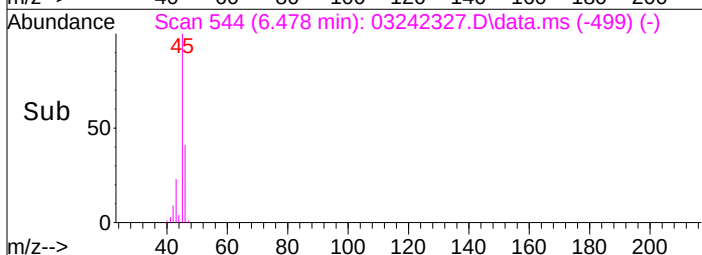
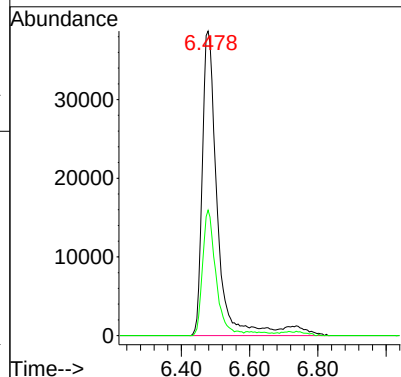
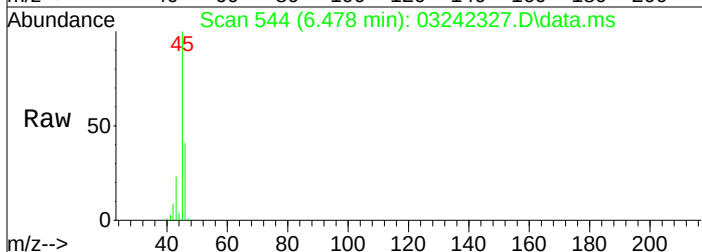
Tgt Ion: 135 Resp: 1581
 Ion Ratio Lower Upper
 135 100
 137 19.4 12.0 52.0





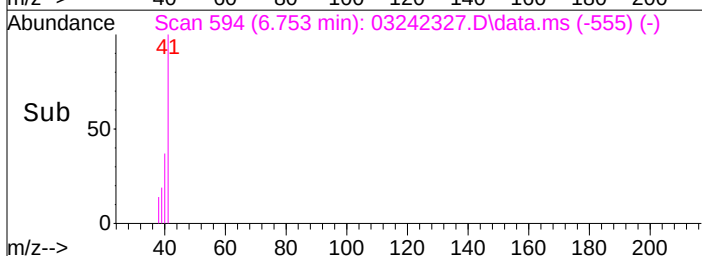
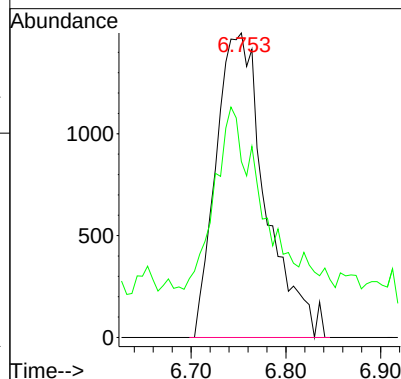
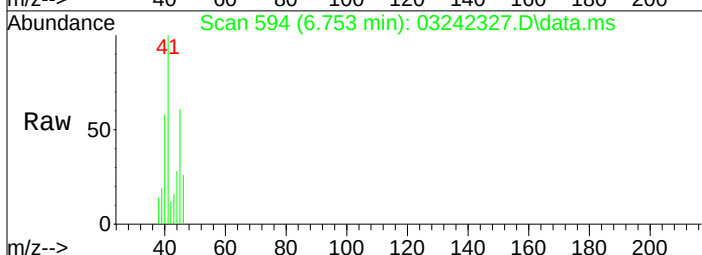
#10
Ethanol
Concen: 6.31 ng
RT: 6.48 min Scan# 544
Delta R.T. 0.000 min
Lab File: 03242327.D
Acq: 24 Mar 2023 21:24

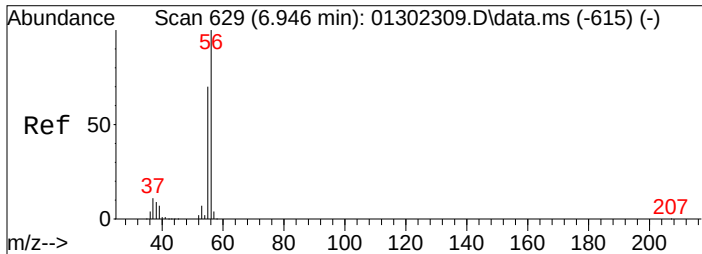
Tgt Ion: 45 Resp: 121609
Ion Ratio Lower Upper
45 100
46 39.6 20.5 60.5



#11
Acetonitrile
Concen: 0.11 ng
RT: 6.75 min Scan# 594
Delta R.T. 0.016 min
Lab File: 03242327.D
Acq: 24 Mar 2023 21:24

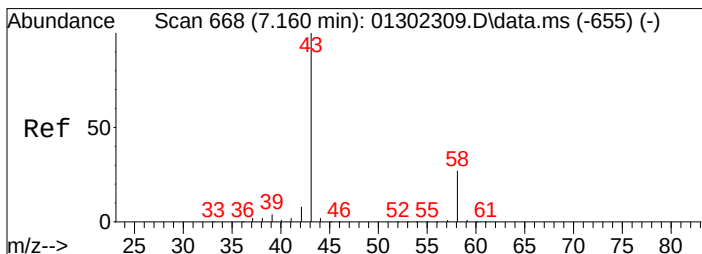
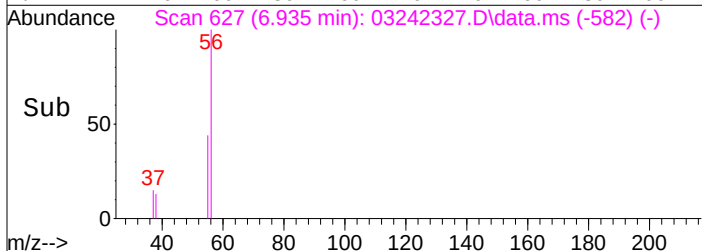
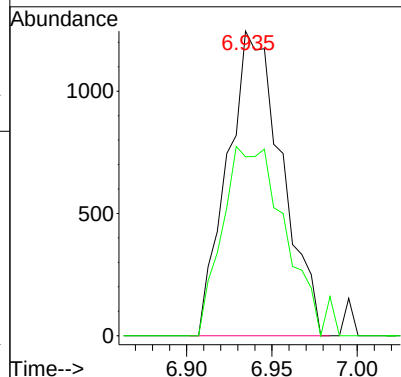
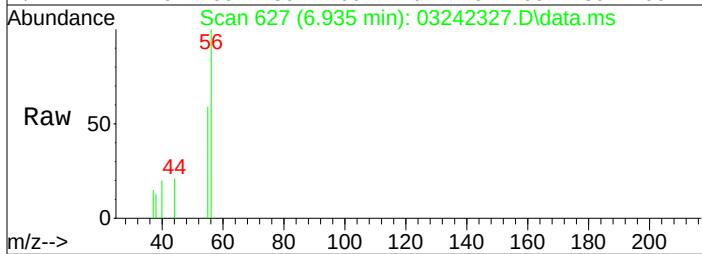
Tgt Ion: 41 Resp: 5413
Ion Ratio Lower Upper
41 100
40 77.1 32.4 72.4#





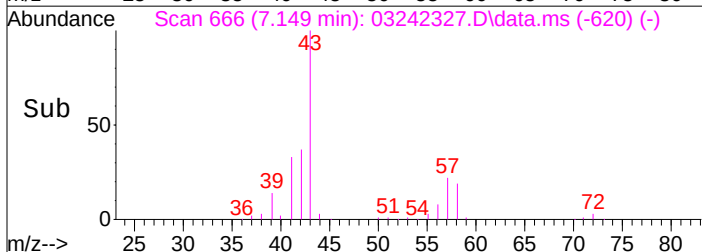
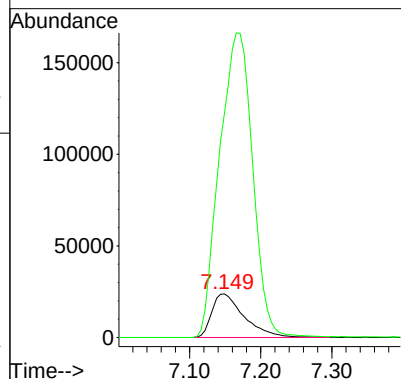
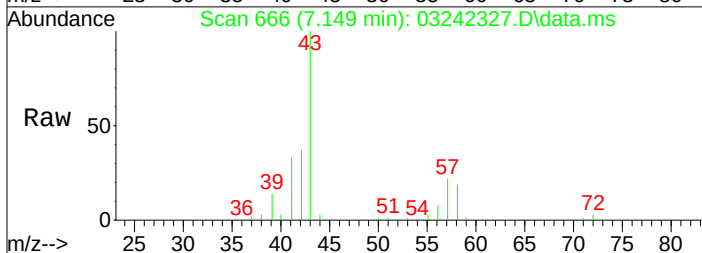
#12
Acrolein
Concen: 0.20 ng
RT: 6.93 min Scan# 627
Delta R.T. -0.000 min
Lab File: 03242327.D
Acq: 24 Mar 2023 21:24

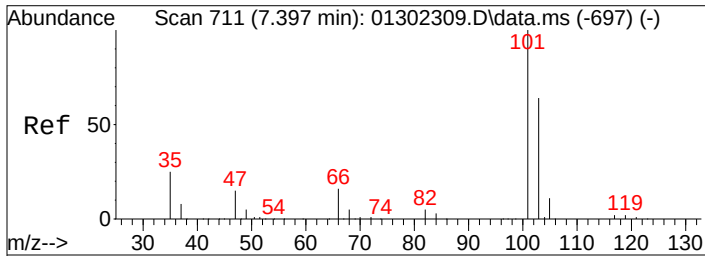
Tgt Ion: 56 Resp: 2754
Ion Ratio Lower Upper
56 100
55 72.1 49.9 89.9



#13
Acetone
Concen: 5.12 ng
RT: 7.15 min Scan# 666
Delta R.T. 0.005 min
Lab File: 03242327.D
Acq: 24 Mar 2023 21:24

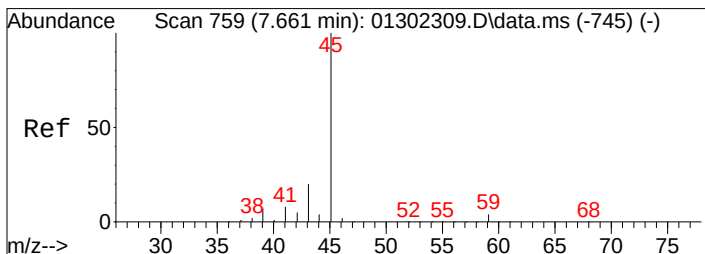
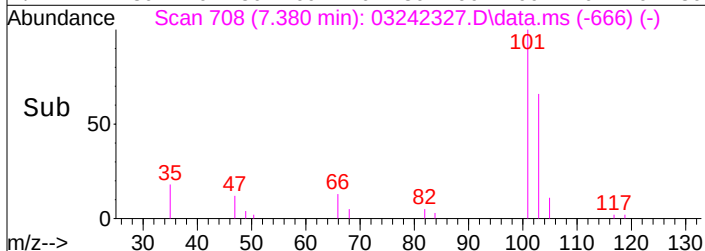
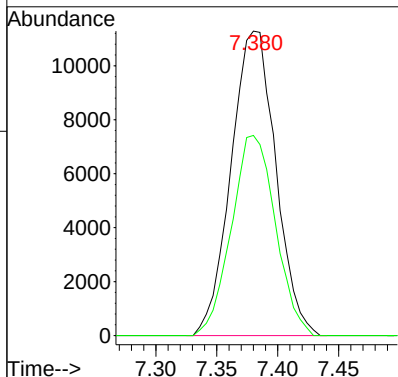
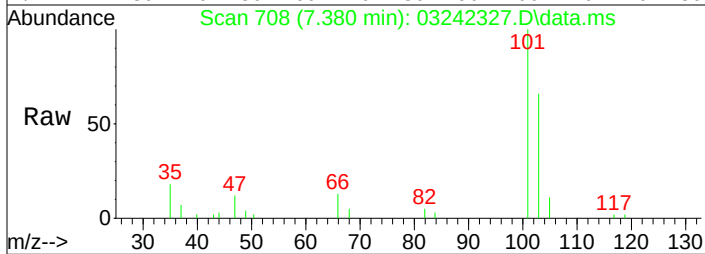
Tgt Ion: 58 Resp: 75474
Ion Ratio Lower Upper
58 100
43 715.3 298.5 358.5#





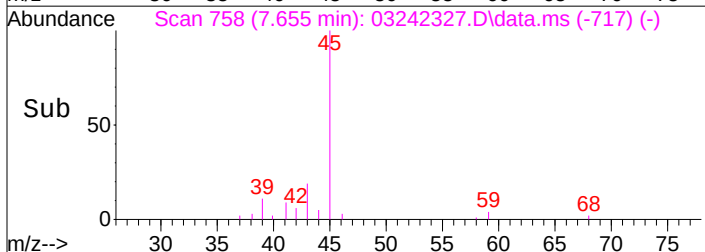
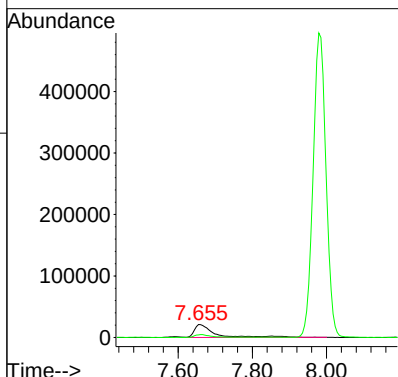
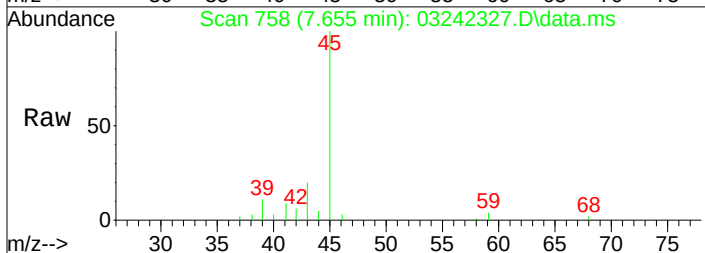
#14
 Trichlorofluoromethane
 Concen: 1.04 ng
 RT: 7.38 min Scan# 708
 Delta R.T. -0.016 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 21:24

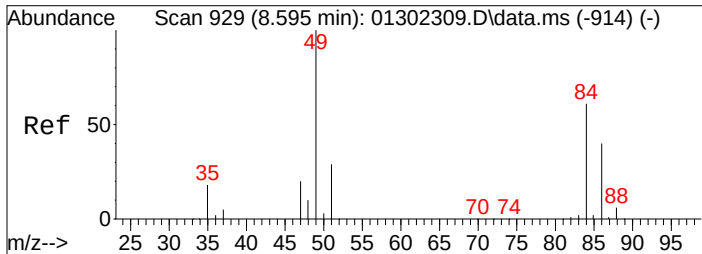
Tgt Ion: 101 Resp: 28835
 Ion Ratio Lower Upper
 101 100
 103 64.7 44.8 84.8



#15
 2-Propanol (Isopropanol)
 Concen: 1.55 ng
 RT: 7.65 min Scan# 758
 Delta R.T. -0.025 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 21:24

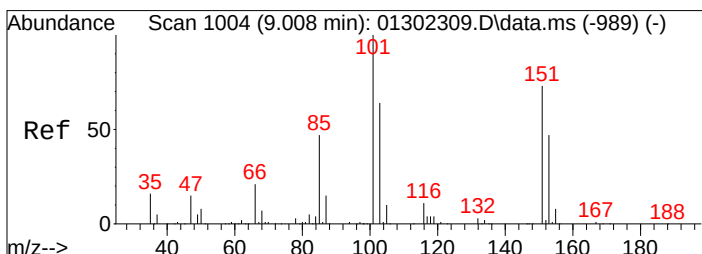
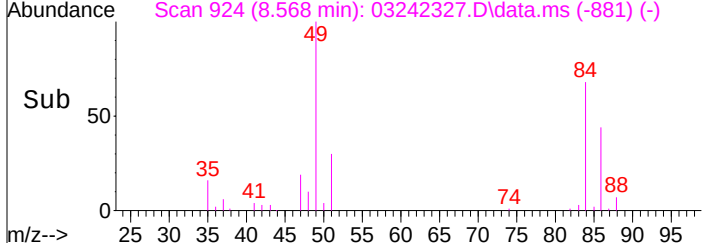
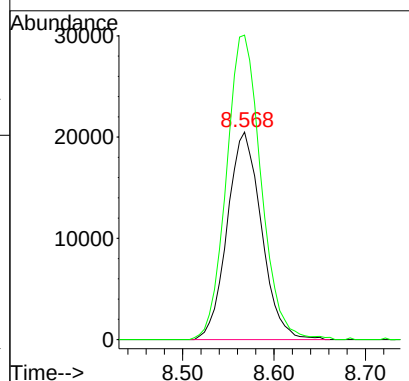
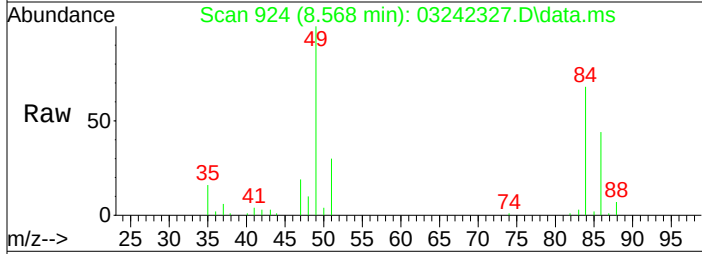
Tgt Ion: 45 Resp: 79335
 Ion Ratio Lower Upper
 45 100
 43 24.0 0.0 37.9





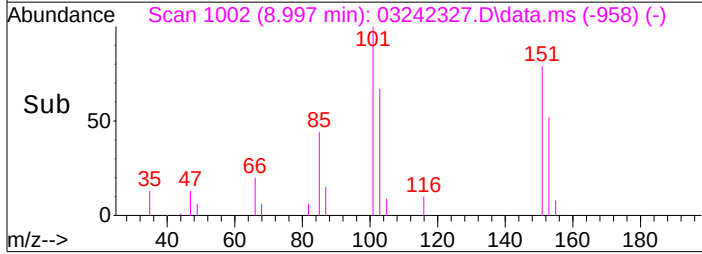
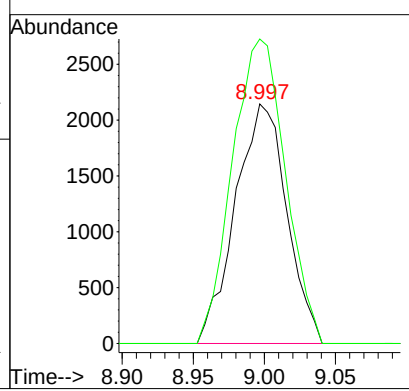
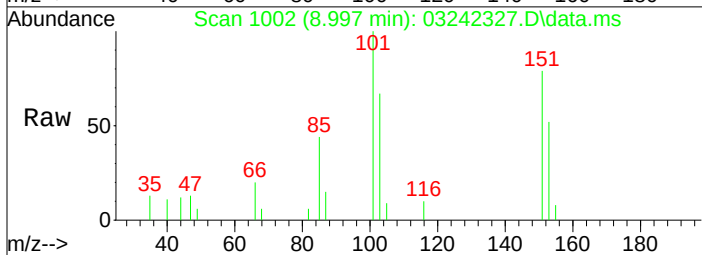
#19
 Methylene Chloride
 Concen: 3.27 ng
 RT: 8.57 min Scan# 924
 Delta R.T. -0.011 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 21:24

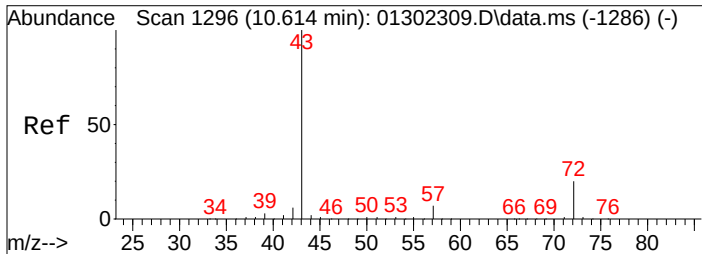
Tgt Ion:	84	Resp:	53332
Ion Ratio	Lower	Upper	
84	100		
49	148.8	135.0	185.0



#21
 Trichlorotrifluoroethane
 Concen: 0.39 ng
 RT: 9.00 min Scan# 1002
 Delta R.T. -0.005 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 21:24

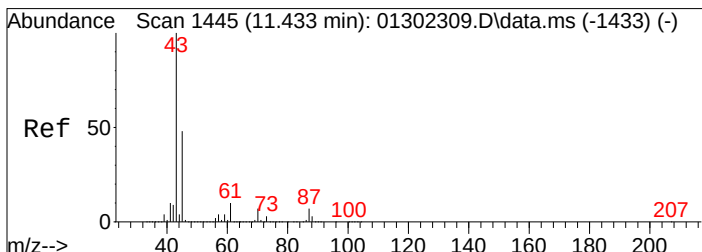
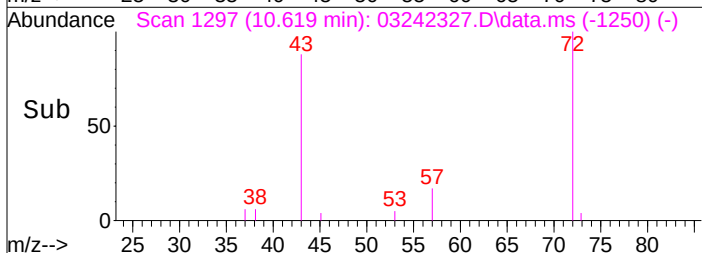
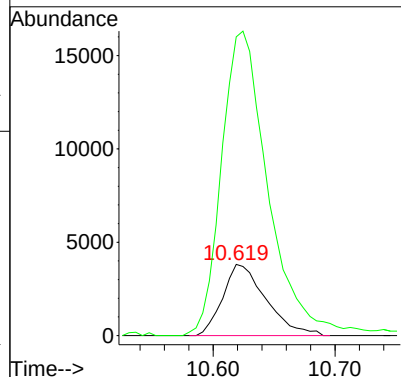
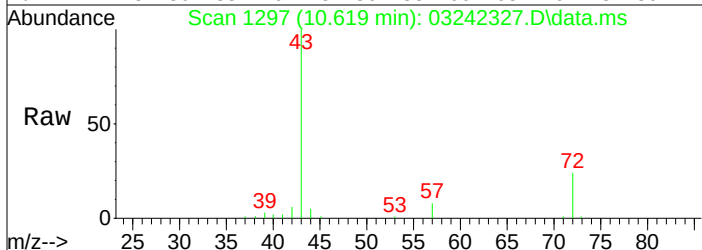
Tgt Ion:	151	Resp:	5399
Ion Ratio	Lower	Upper	
151	100		
101	130.9	101.5	141.5





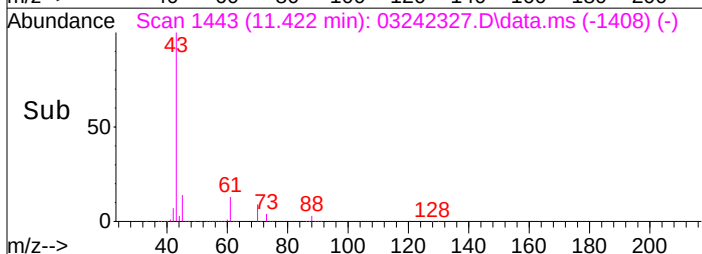
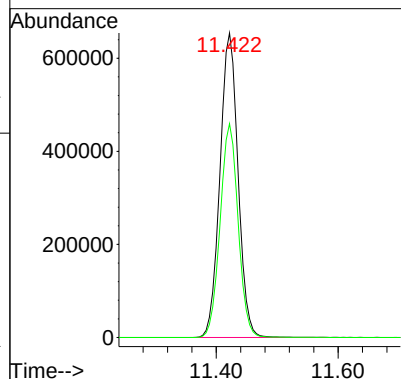
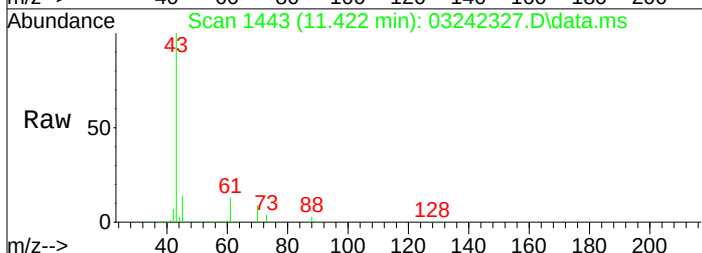
#27
 2-Butanone (MEK)
 Concen: 0.88 ng
 RT: 10.62 min Scan# 1297
 Delta R.T. 0.011 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 21:24

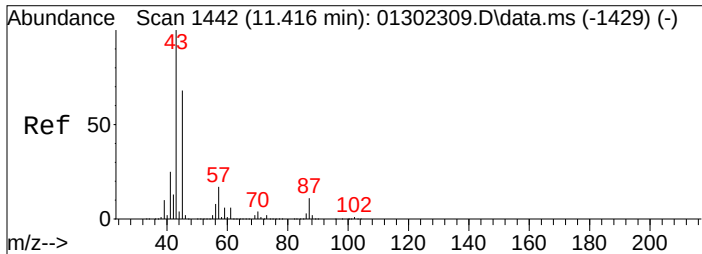
Tgt Ion: 72 Resp: 9401
 Ion Ratio Lower Upper
 72 100
 43 471.1 449.4 489.4



#30
 Ethyl Acetate
 Concen: 192.57 ng
 RT: 11.42 min Scan# 1443
 Delta R.T. -0.006 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 21:24

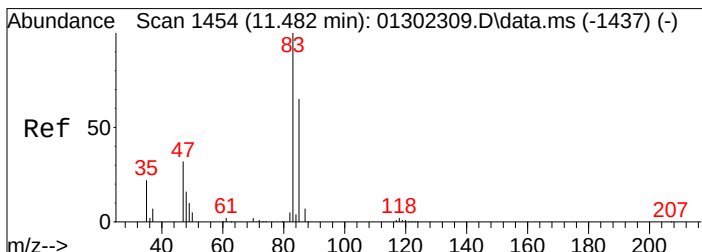
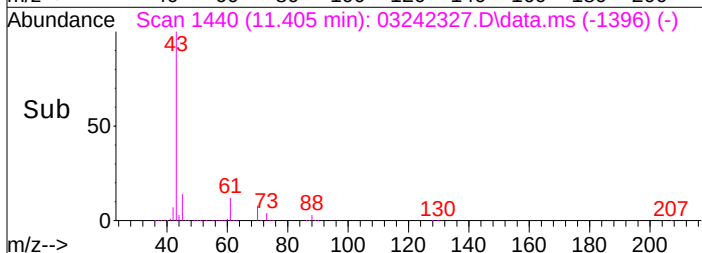
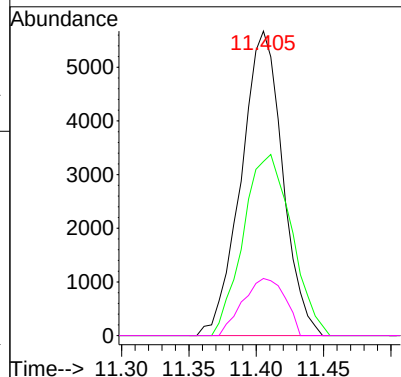
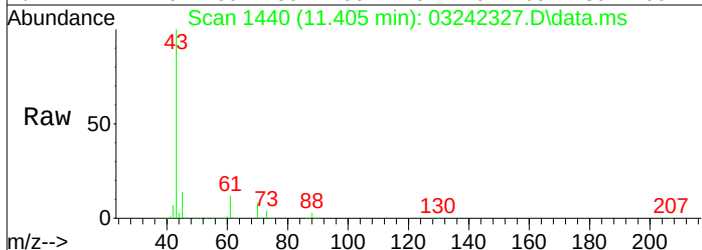
Tgt Ion: 61 Resp: 1345648
 Ion Ratio Lower Upper
 61 100
 70 69.8 52.8 92.8





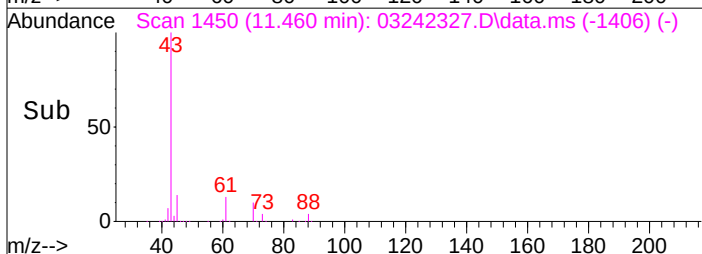
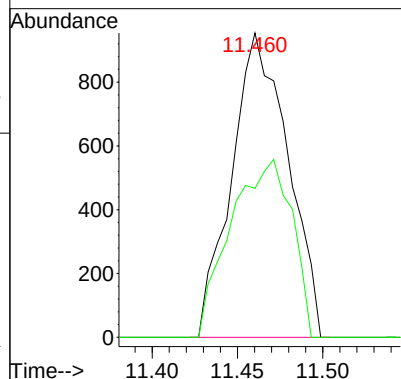
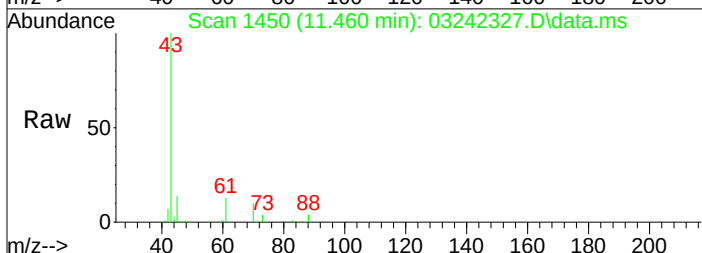
#31
n-Hexane
Concen: 0.35 ng
RT: 11.41 min Scan# 1440
Delta R.T. -0.005 min
Lab File: 03242327.D
Acq: 24 Mar 2023 21:24

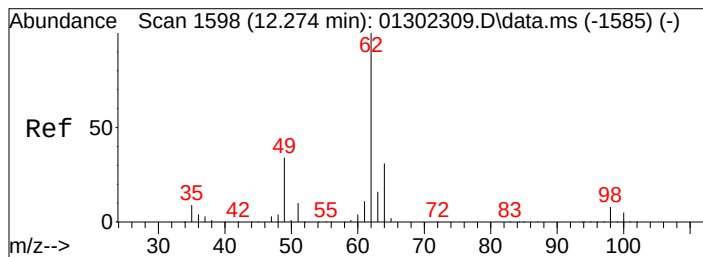
Tgt Ion:	57	Resp:	12162
Ion Ratio		Lower	Upper
57	100		
56	69.3	39.9	59.9#
86	19.1	12.3	18.5#



#32
Chloroform
Concen: 0.08 ng
RT: 11.46 min Scan# 1450
Delta R.T. -0.005 min
Lab File: 03242327.D
Acq: 24 Mar 2023 21:24

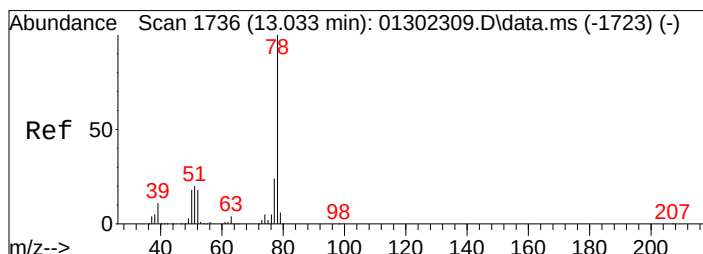
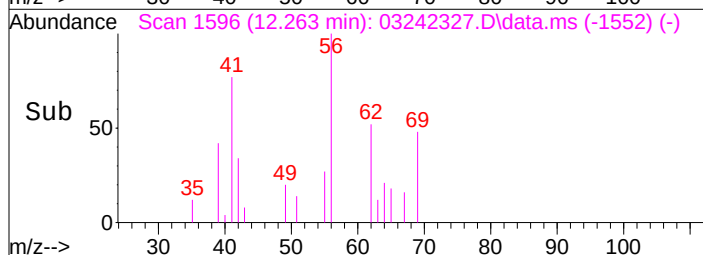
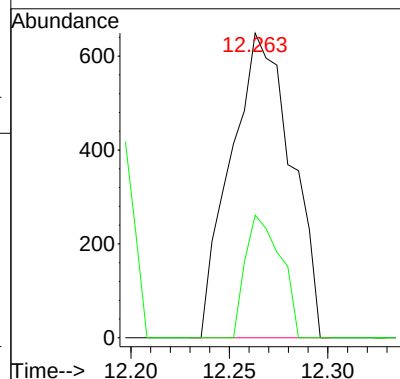
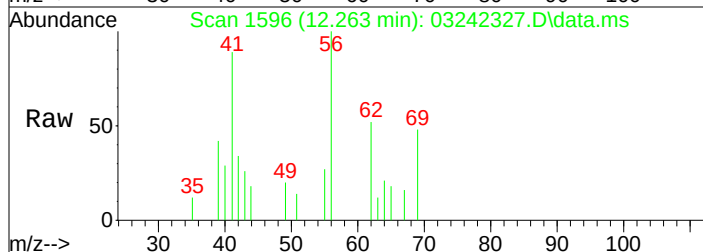
Tgt Ion:	83	Resp:	2188
Ion Ratio		Lower	Upper
83	100		
85	63.7	45.5	85.5





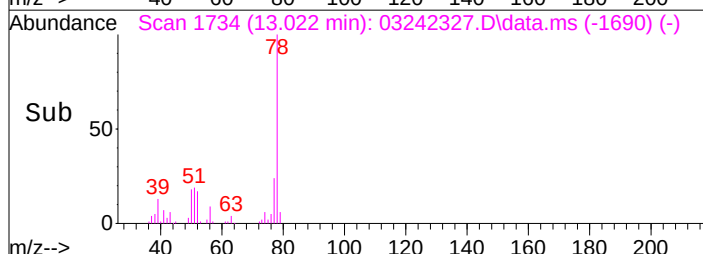
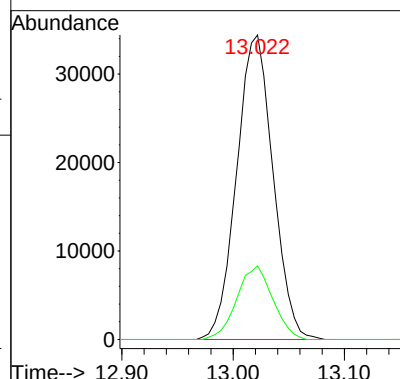
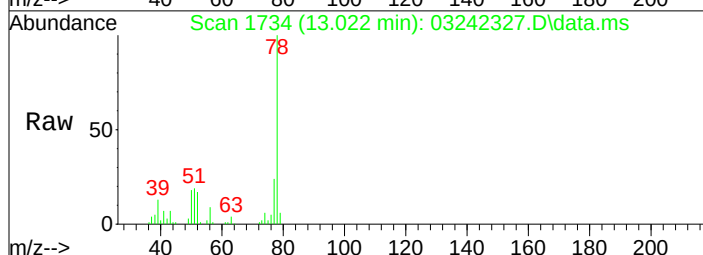
#36
 1,2-Dichloroethane
 Concen: 0.06 ng
 RT: 12.26 min Scan# 1596
 Delta R.T. -0.005 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 21:24

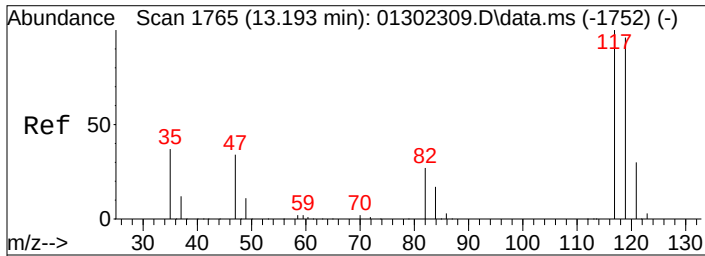
Tgt Ion: 62 Resp: 1384
 Ion Ratio Lower Upper
 62 100
 64 23.6 12.5 52.5



#41
 Benzene
 Concen: 1.21 ng
 RT: 13.02 min Scan# 1734
 Delta R.T. -0.006 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 21:24

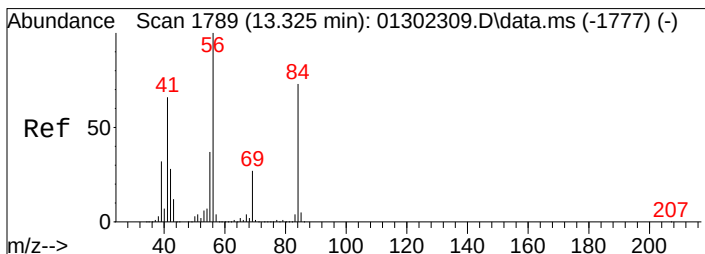
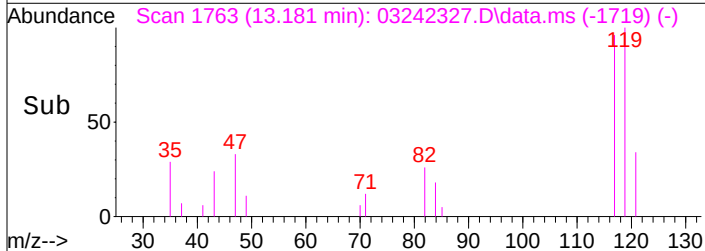
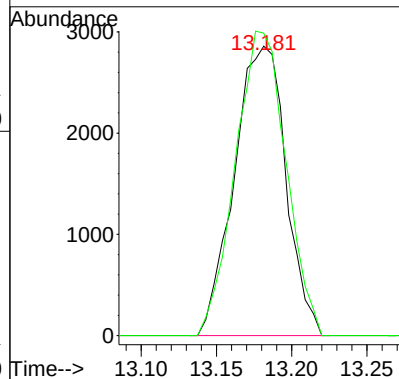
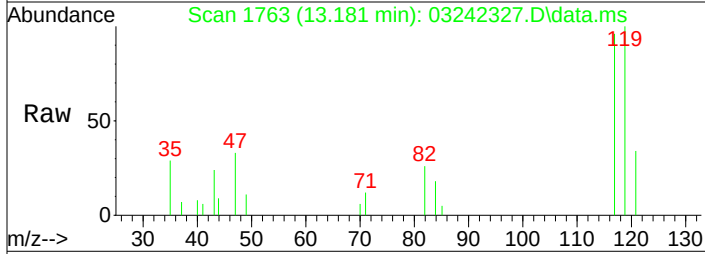
Tgt Ion: 78 Resp: 78177
 Ion Ratio Lower Upper
 78 100
 77 23.8 3.3 43.3





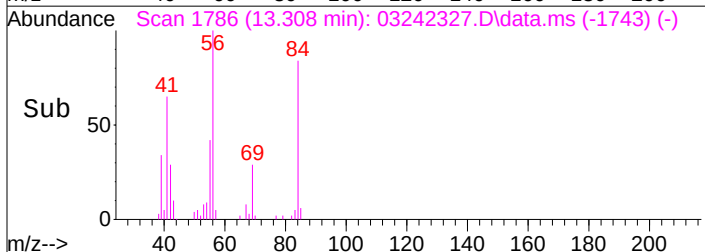
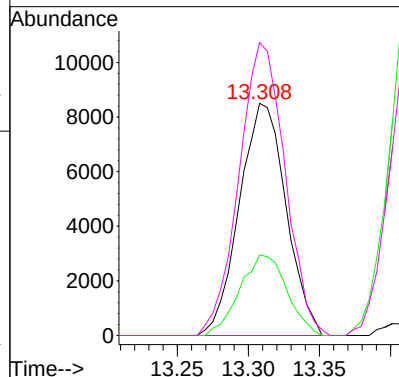
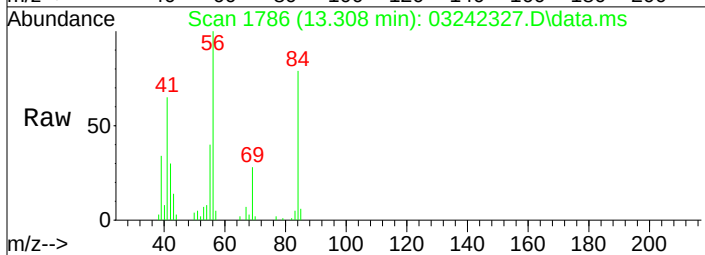
#42
Carbon Tetrachloride
Concen: 0.32 ng
RT: 13.18 min Scan# 1763
Delta R.T. -0.005 min
Lab File: 03242327.D
Acq: 24 Mar 2023 21:24

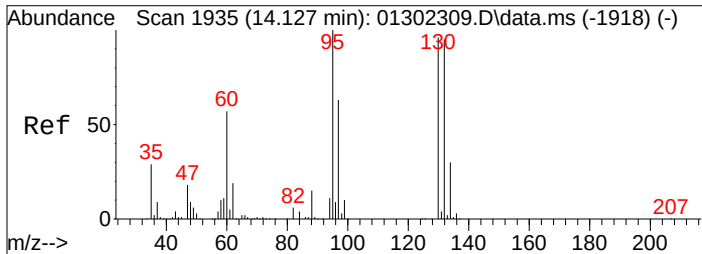
Tgt Ion: 117 Resp: 6811
Ion Ratio Lower Upper
117 100
119 103.4 76.2 116.2



#43
Cyclohexane
Concen: 0.71 ng
RT: 13.31 min Scan# 1786
Delta R.T. -0.011 min
Lab File: 03242327.D
Acq: 24 Mar 2023 21:24

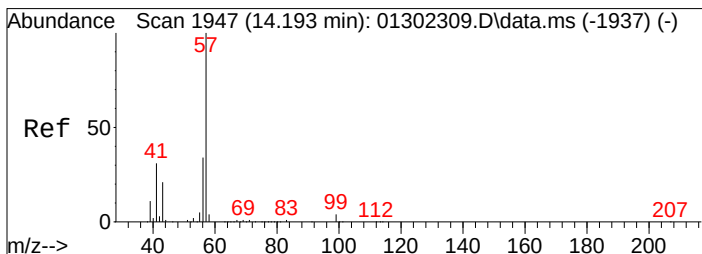
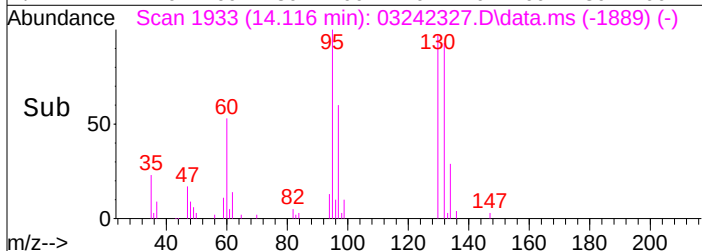
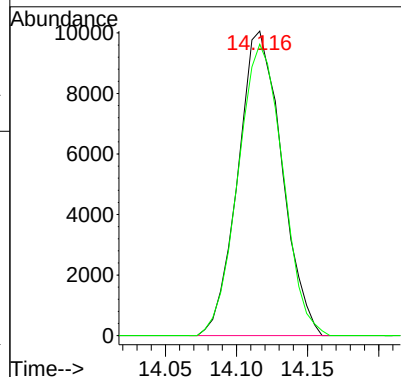
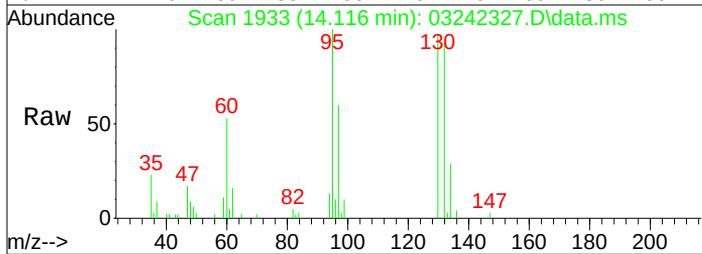
Tgt Ion: 84 Resp: 19424
Ion Ratio Lower Upper
84 100
69 35.0 16.2 56.2
56 124.3 115.2 155.2





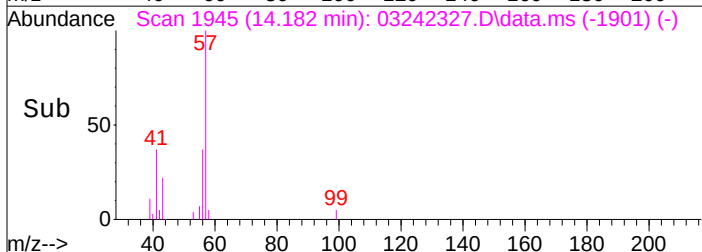
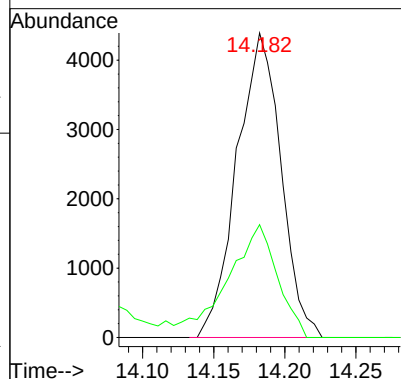
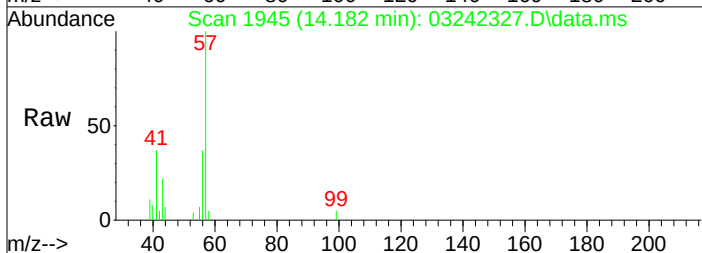
#47
 Trichloroethene
 Concen: 1.23 ng
 RT: 14.12 min Scan# 1933
 Delta R.T. -0.005 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 21:24

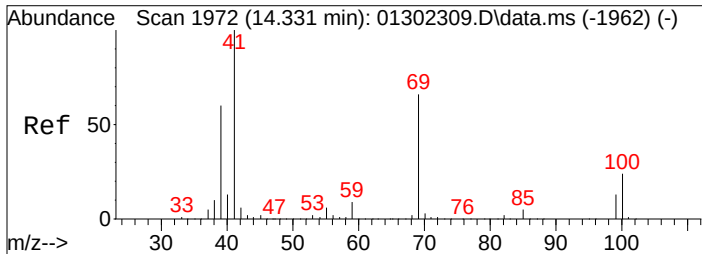
Tgt Ion:	130	Resp:	21602
Ion Ratio	Lower	Upper	
130	100		
132	97.1	78.7	118.7



#49
 2,2,4-Trimethylpentane (Isooctane)
 Concen: 0.11 ng
 RT: 14.18 min Scan# 1945
 Delta R.T. -0.005 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 21:24

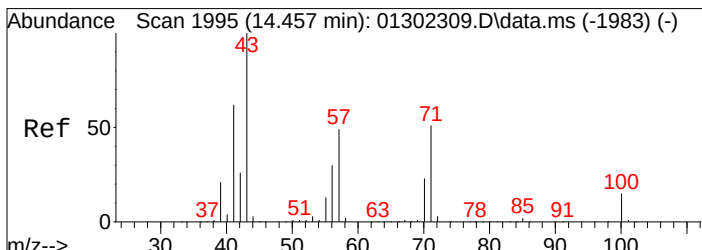
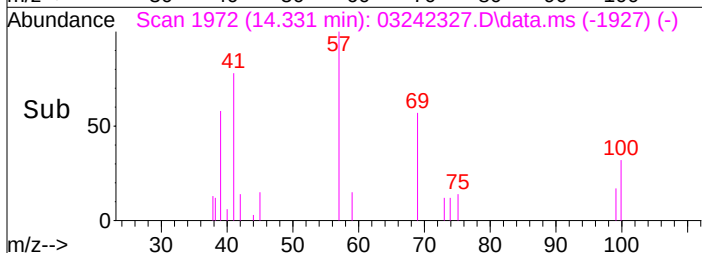
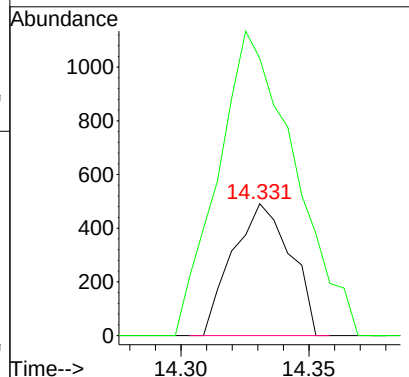
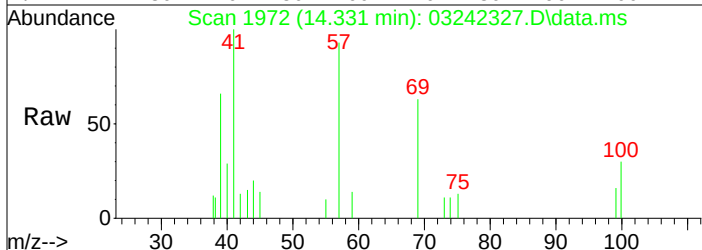
Tgt Ion:	57	Resp:	9447
Ion Ratio	Lower	Upper	
57	100		
41	42.1	5.8	45.8





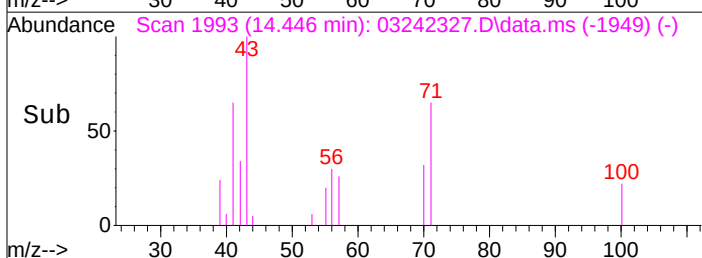
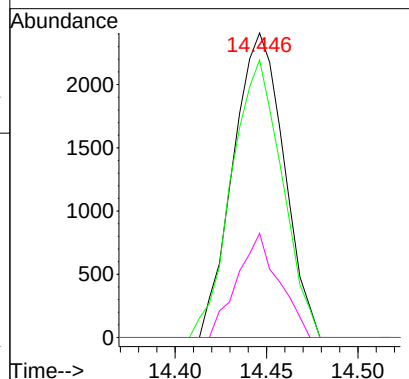
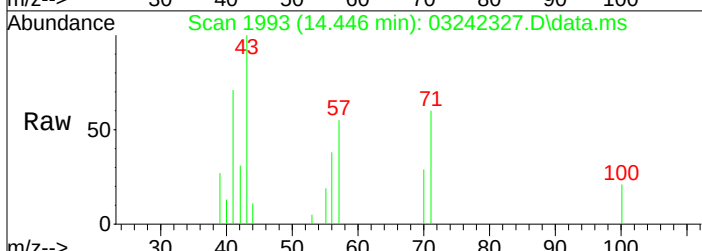
#50
Methyl Methacrylate
Concen: 0.11 ng
RT: 14.33 min Scan# 1972
Delta R.T. -0.000 min
Lab File: 03242327.D
Acq: 24 Mar 2023 21:24

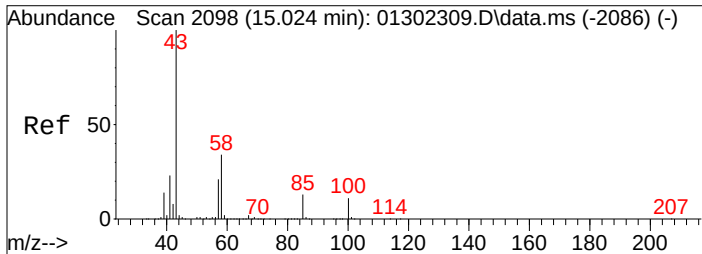
Tgt Ion:	100	Resp:	776
Ion Ratio	Lower	Upper	
100	100		
69	303.9	237.0	277.0#



#51
n-Heptane
Concen: 0.24 ng
RT: 14.45 min Scan# 1993
Delta R.T. -0.005 min
Lab File: 03242327.D
Acq: 24 Mar 2023 21:24

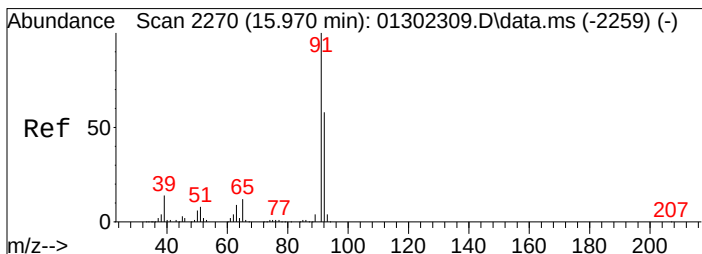
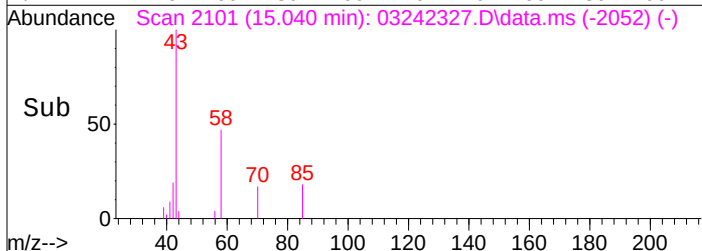
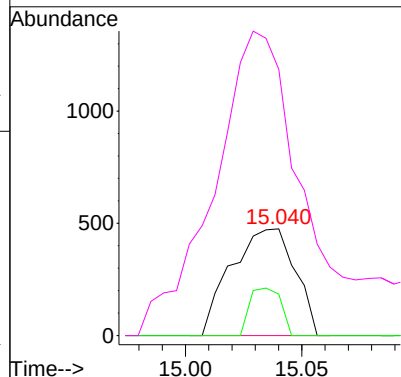
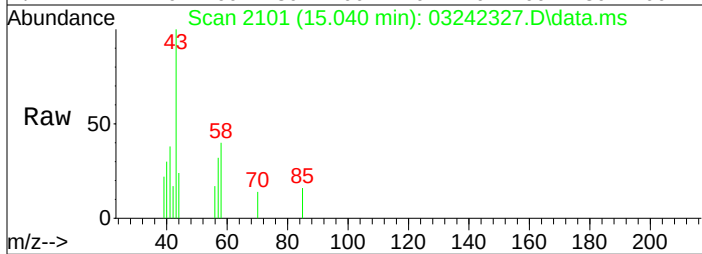
Tgt Ion:	71	Resp:	4640
Ion Ratio	Lower	Upper	
71	100		
57	90.8	81.4	121.4
100	28.2	11.8	51.8





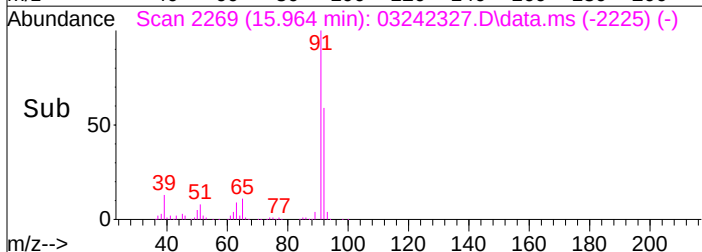
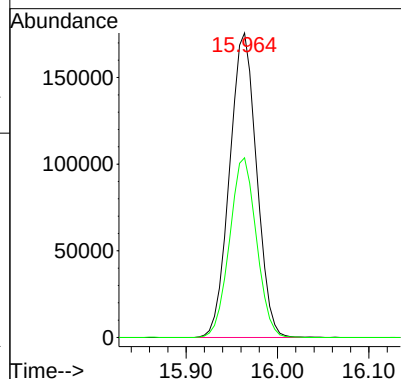
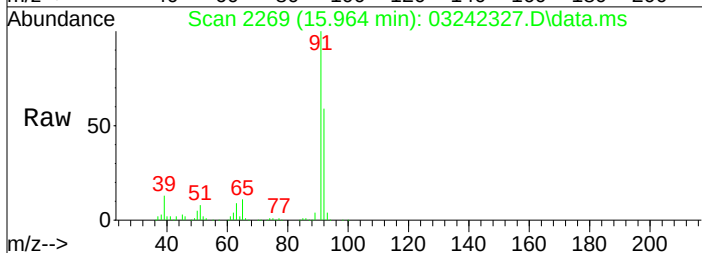
#53
 4-Methyl-2-pentanone
 Concen: 0.06 ng
 RT: 15.04 min Scan# 2101
 Delta R.T. 0.022 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 21:24

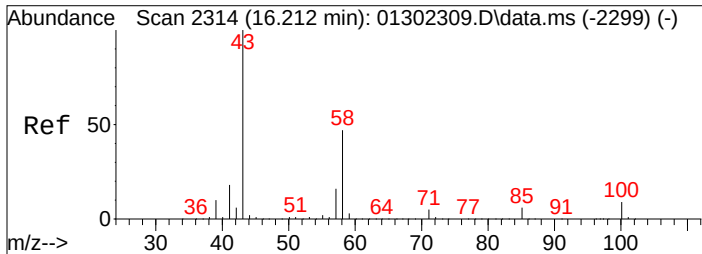
Tgt Ion:	58	Resp:	907
Ion Ratio	Lower	Upper	
58	100		
85	21.7	31.7	47.5#
43	444.5	214.3	321.5#



#58
 Toluene
 Concen: 4.58 ng
 RT: 15.96 min Scan# 2269
 Delta R.T. -0.005 min
 Lab File: 03242327.D
 Acq: 24 Mar 2023 21:24

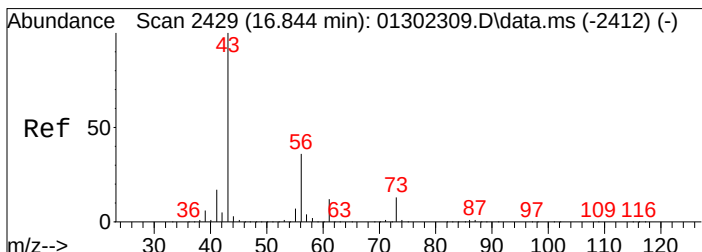
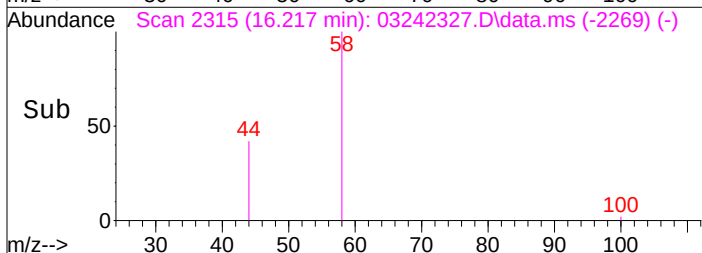
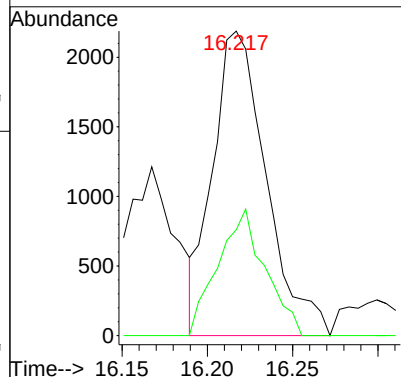
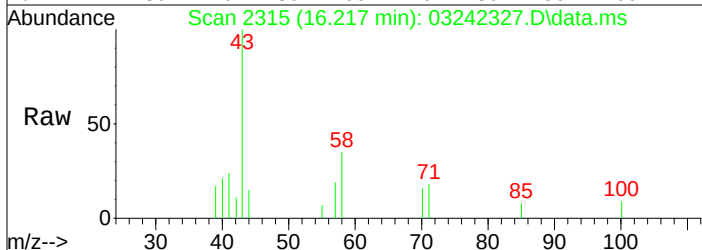
Tgt Ion:	91	Resp:	360785
Ion Ratio	Lower	Upper	
91	100		
92	58.7	39.8	79.8





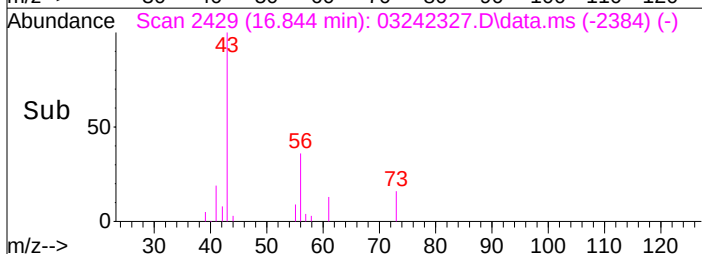
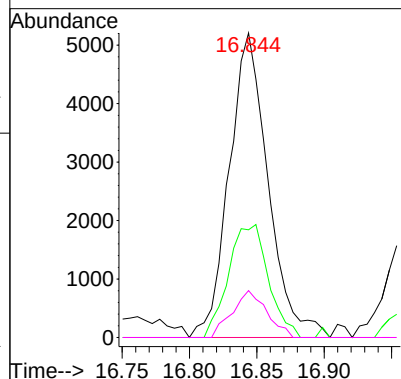
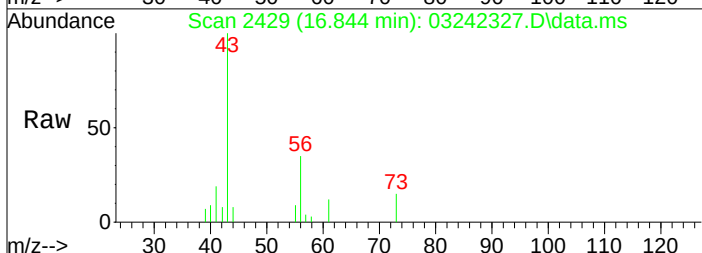
#59
2-Hexanone
Concen: 0.11 ng
RT: 16.22 min Scan# 2315
Delta R.T. 0.005 min
Lab File: 03242327.D
Acq: 24 Mar 2023 21:24

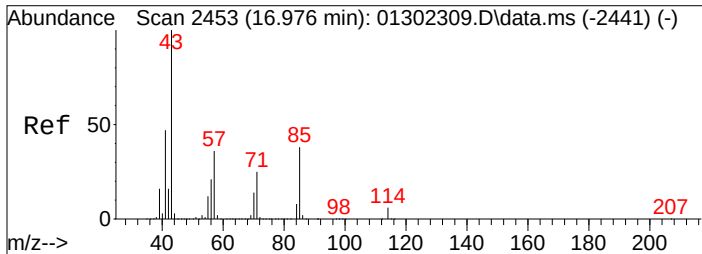
Tgt Ion: 43 Resp: 4785
Ion Ratio Lower Upper
43 100
58 36.4 32.3 72.3



#62
n-Butyl Acetate
Concen: 0.22 ng
RT: 16.84 min Scan# 2429
Delta R.T. -0.000 min
Lab File: 03242327.D
Acq: 24 Mar 2023 21:24

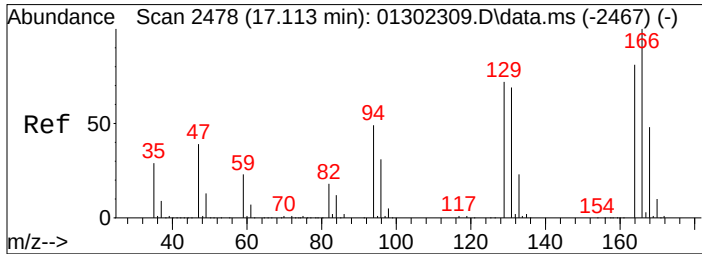
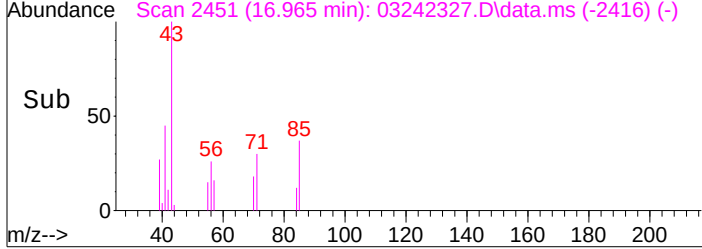
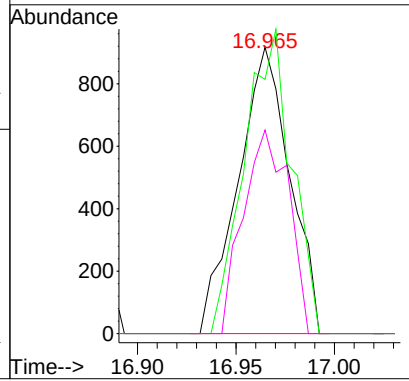
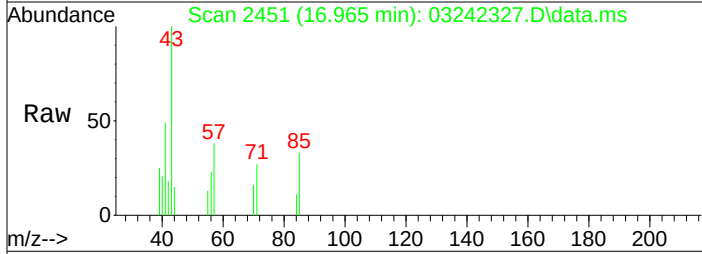
Tgt Ion: 43 Resp: 10483
Ion Ratio Lower Upper
43 100
56 37.8 21.0 61.0
73 13.6 0.0 34.3





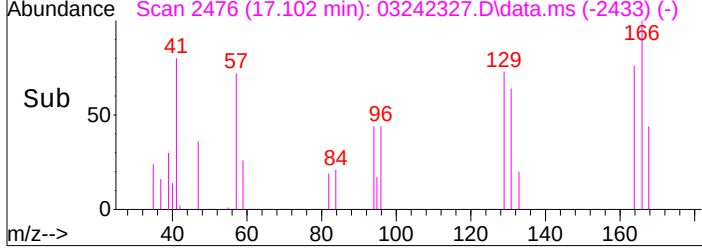
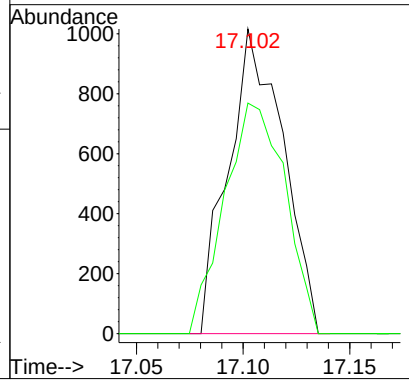
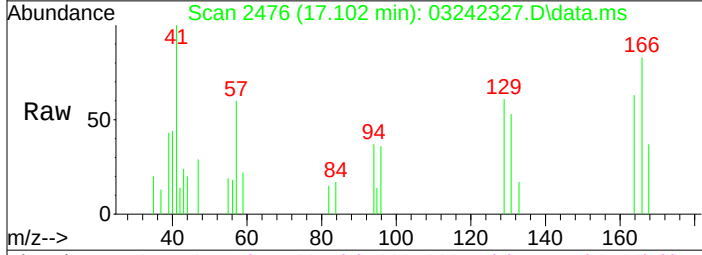
#63
n-Octane
Concen: 0.08 ng
RT: 16.96 min Scan# 2451
Delta R.T. -0.006 min
Lab File: 03242327.D
Acq: 24 Mar 2023 21:24

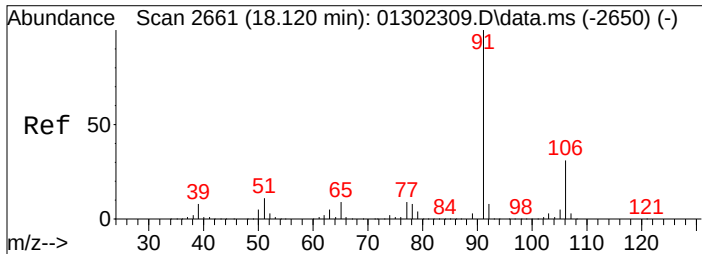
Tgt Ion:	57	Resp:	1678
Ion Ratio		Lower	Upper
57	100		
85	97.1	81.4	122.2
71	62.4	51.7	77.5



#64
Tetrachloroethene
Concen: 0.09 ng
RT: 17.10 min Scan# 2476
Delta R.T. -0.011 min
Lab File: 03242327.D
Acq: 24 Mar 2023 21:24

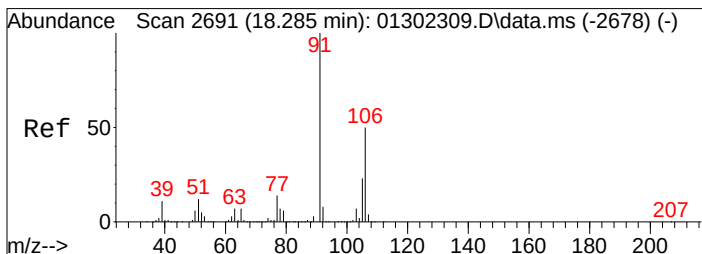
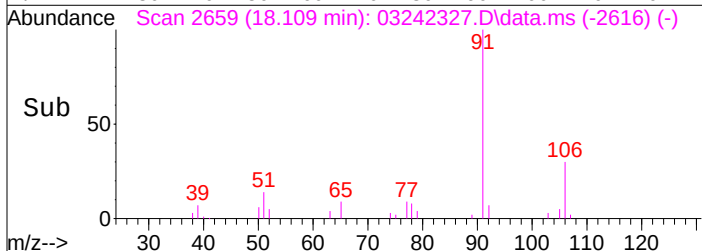
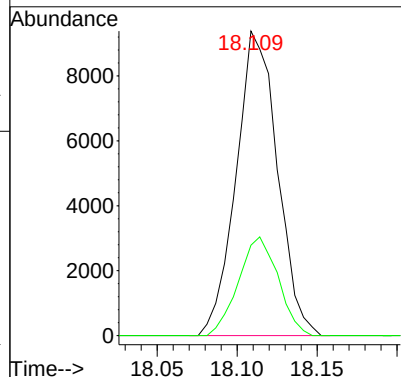
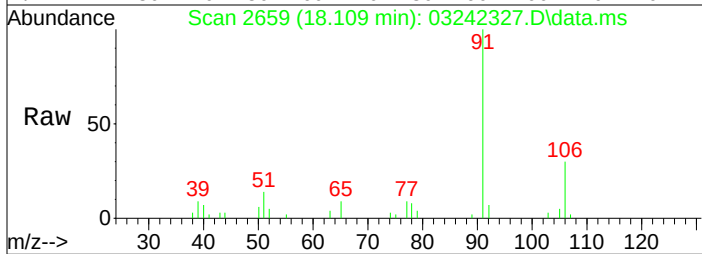
Tgt Ion:	166	Resp:	1819
Ion Ratio		Lower	Upper
166	100		
164	83.7	58.7	98.7





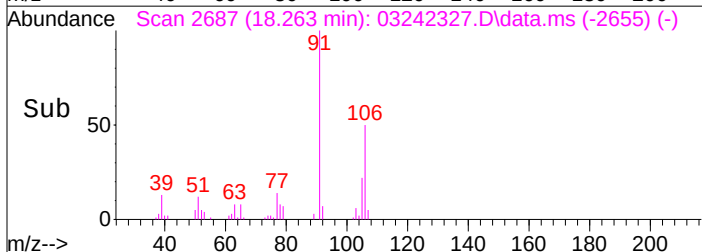
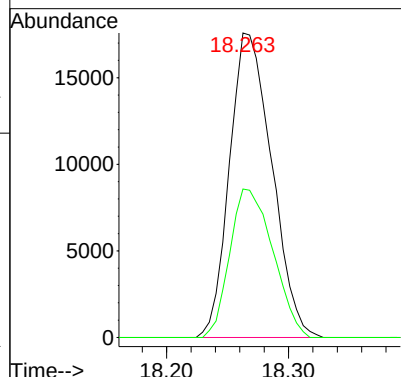
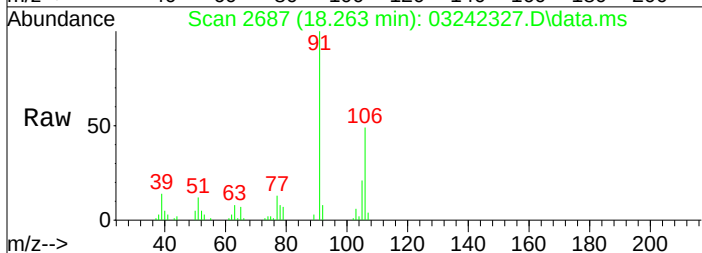
#66
Ethylbenzene
Concen: 0.19 ng
RT: 18.11 min Scan# 2659
Delta R.T. -0.011 min
Lab File: 03242327.D
Acq: 24 Mar 2023 21:24

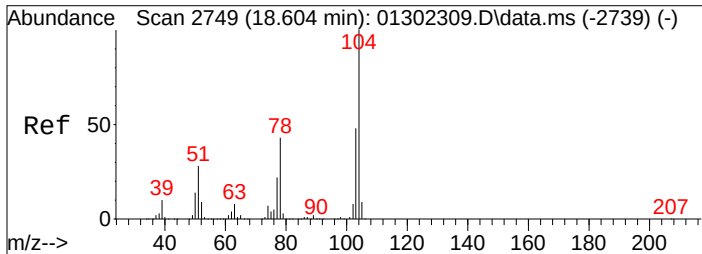
Tgt Ion: 91 Resp: 16883
Ion Ratio Lower Upper
91 100
106 31.1 11.5 51.5



#67
m- & p-Xylenes
Concen: 0.60 ng
RT: 18.26 min Scan# 2687
Delta R.T. -0.022 min
Lab File: 03242327.D
Acq: 24 Mar 2023 21:24

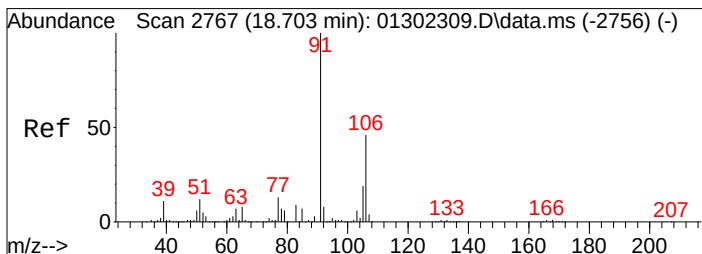
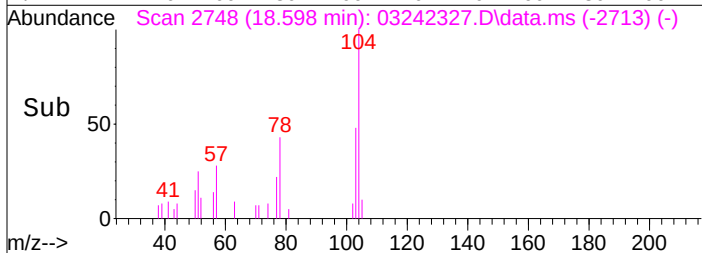
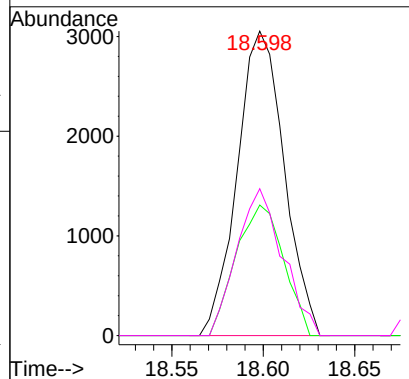
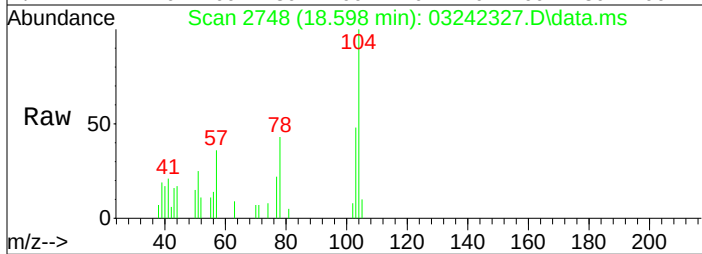
Tgt Ion: 91 Resp: 42387
Ion Ratio Lower Upper
91 100
106 49.7 29.2 69.2





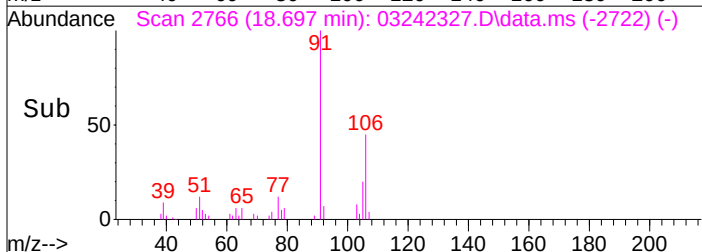
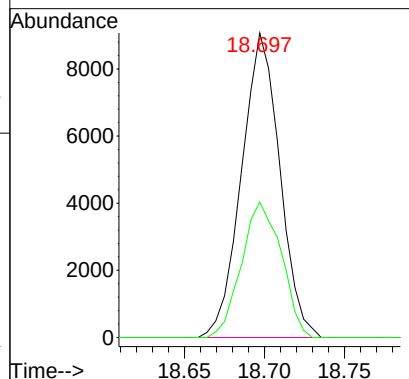
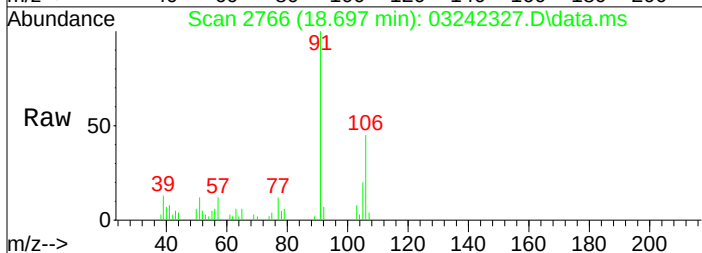
#69
Styrene
Concen: 0.11 ng
RT: 18.60 min Scan# 2748
Delta R.T. -0.006 min
Lab File: 03242327.D
Acq: 24 Mar 2023 21:24

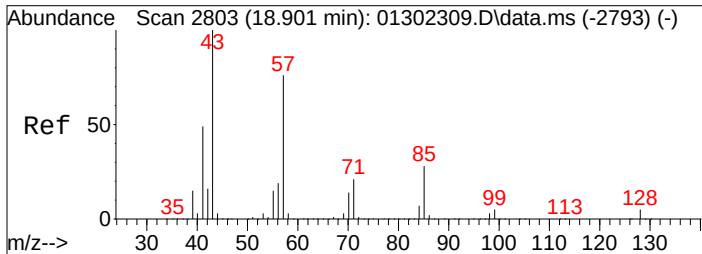
Tgt Ion:	104	Resp:	5451
Ion Ratio		Lower	Upper
104	100		
78	43.5	20.0	60.0
103	47.2	26.9	66.9



#70
o-Xylene
Concen: 0.22 ng
RT: 18.70 min Scan# 2766
Delta R.T. -0.006 min
Lab File: 03242327.D
Acq: 24 Mar 2023 21:24

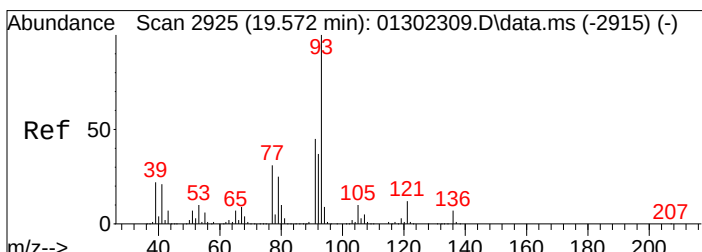
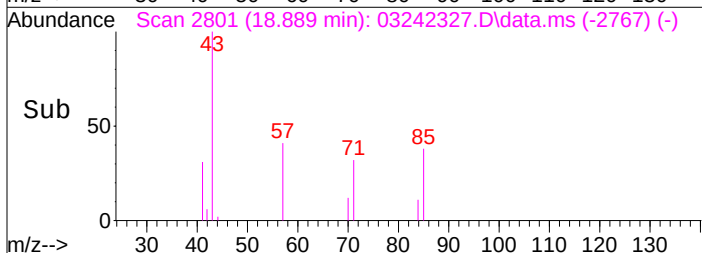
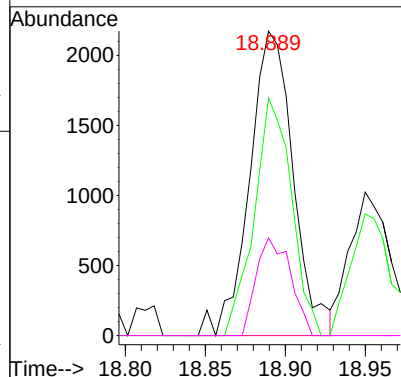
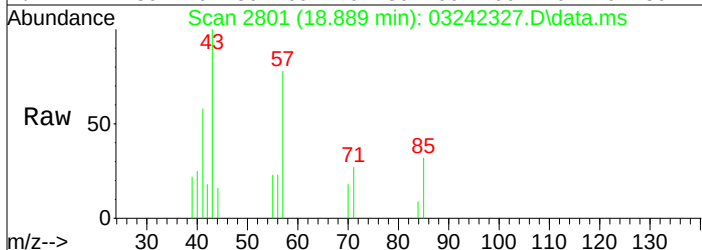
Tgt Ion:	91	Resp:	15074
Ion Ratio		Lower	Upper
91	100		
106	46.4	27.3	67.3





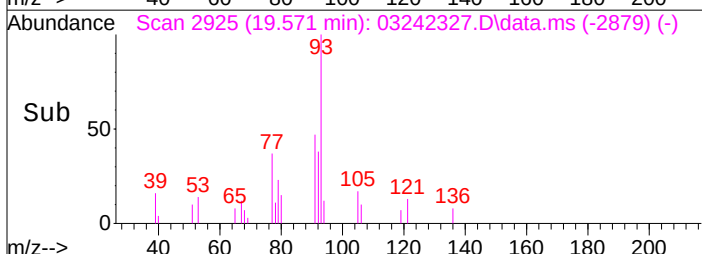
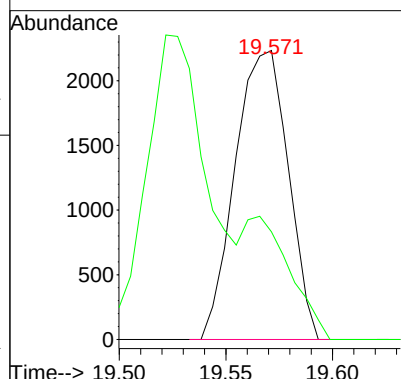
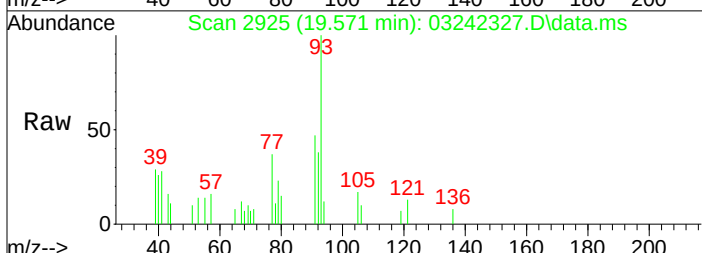
#71
n-Nonane
Concen: 0.08 ng
RT: 18.89 min Scan# 2801
Delta R.T. -0.011 min
Lab File: 03242327.D
Acq: 24 Mar 2023 21:24

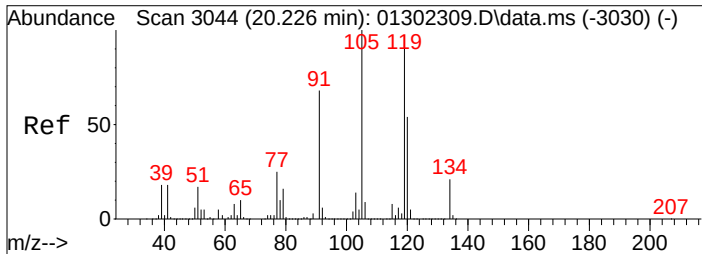
Tgt Ion:	43	Resp:	4134
Ion Ratio		Lower	Upper
43	100		
57	66.5	64.6	104.6
85	25.2	9.6	49.6



#75
alpha-Pinene
Concen: 0.17 ng
RT: 19.57 min Scan# 2925
Delta R.T. 0.000 min
Lab File: 03242327.D
Acq: 24 Mar 2023 21:24

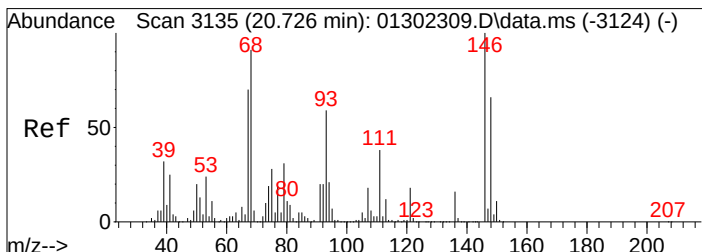
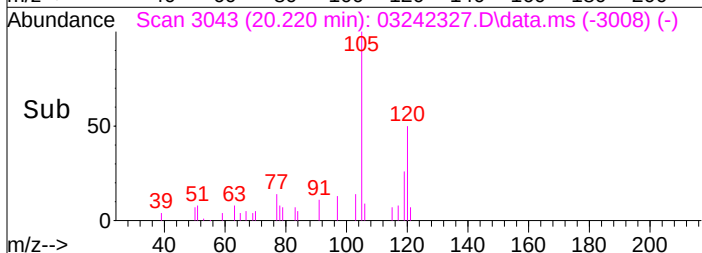
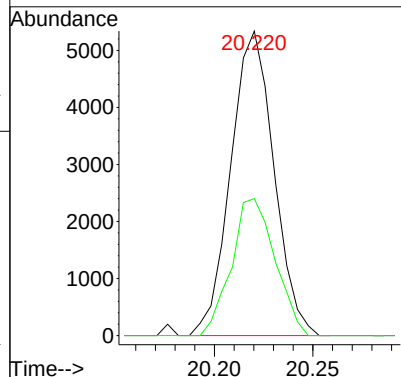
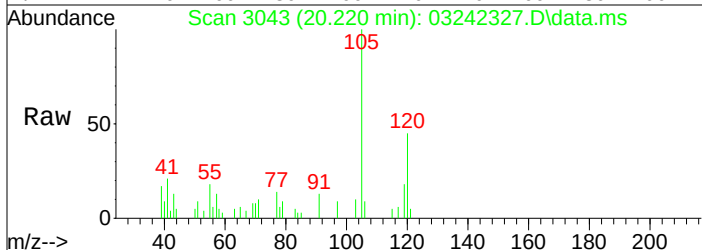
Tgt Ion:	93	Resp:	3861
Ion Ratio		Lower	Upper
93	100		
77	122.3	11.7	51.7#





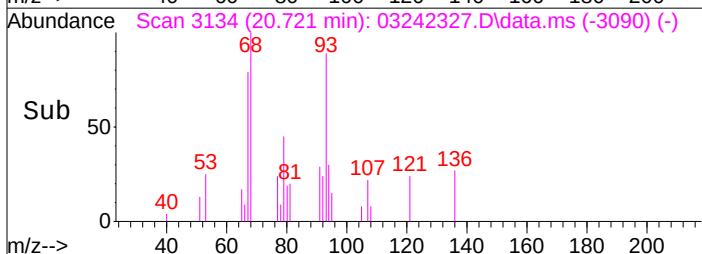
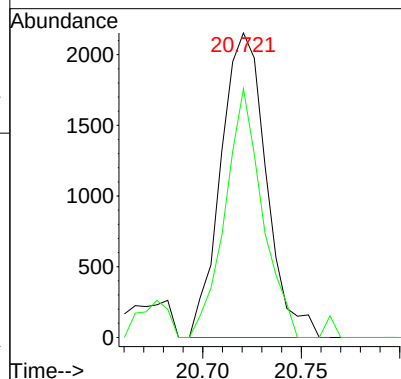
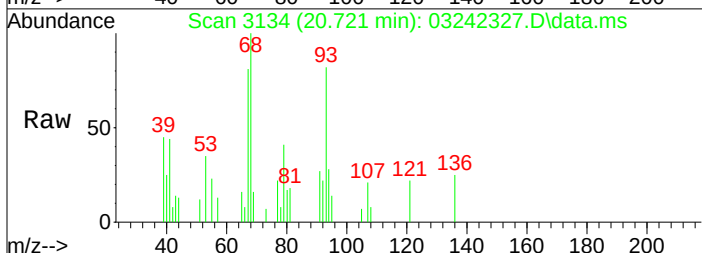
#82
1,2,4-Trimethylbenzene
Concen: 0.11 ng
RT: 20.22 min Scan# 3043
Delta R.T. -0.006 min
Lab File: 03242327.D
Acq: 24 Mar 2023 21:24

Tgt Ion: 105 Resp: 8144
Ion Ratio Lower Upper
105 100
120 45.5 37.2 77.2



#91
d-Limonene
Concen: 0.17 ng
RT: 20.72 min Scan# 3134
Delta R.T. -0.005 min
Lab File: 03242327.D
Acq: 24 Mar 2023 21:24

Tgt Ion: 68 Resp: 3461
Ion Ratio Lower Upper
68 100
93 66.9 49.6 89.6



Data File : I:\MS16\DATA\2023_03\24\03242327.D
 Acq On : 24 Mar 2023 21:24
 Sample : P2301250-049 (1000mL)
 Misc : S35-01312301

Vial: 11
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 09:51:38 2023
 Quant Method : I:\MS16\METHODS\C16122022.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Dec 21 05:02:49 2022
 Response via : Initial Calibration
 DataAcq Meth:T015B.M

IDA 3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.30	130	200235	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	13.42	114	919675	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	17.72	54	205517	12.500	ng	0.00

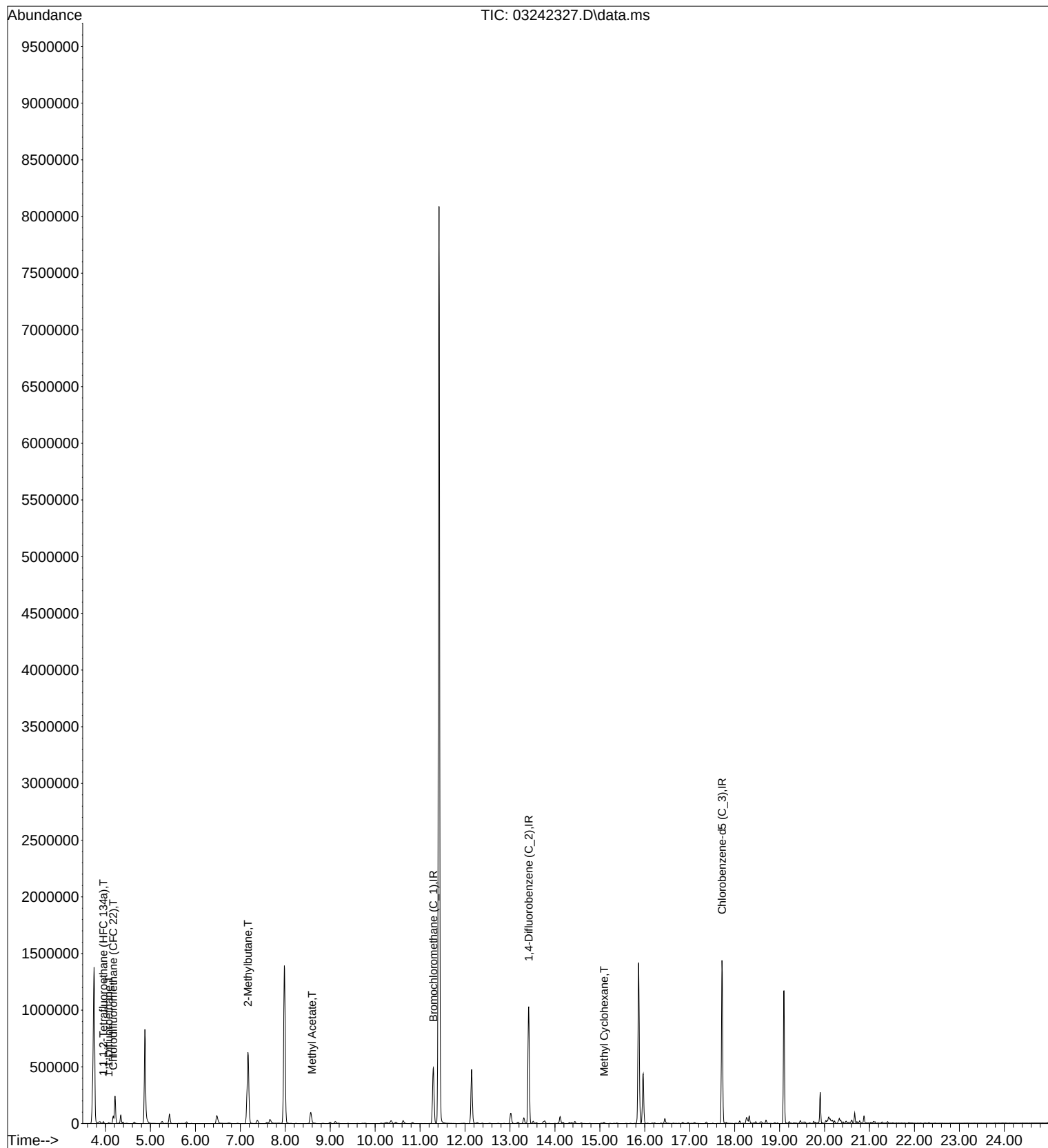
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.87	85	629	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.95	83	7112	0.448	ng	84
4) 1,1-Difluoroethane	4.07	65	2811	0.185	ng	96
5) Chlorodifluoromethane ...	4.17	67	2537	0.512	ng	# 90
6) 1-Chloro-1,1-Difluoroe...	4.64	65	2679	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	7.17	57	203756	9.085	ng	# 73
11) Methyl Acetate	8.60	43	12122	0.244	ng	# 86
12) 2-Methylpentane	0.00	71	0	N.D.	d	
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	13.18	84	1339	N.D.		
17) 2,3-Dimethylpentane	13.59	56	3512	N.D.		
18) Dibromomethane	13.83	174	201	N.D.		
20) Methyl Cyclohexane	15.10	55	3956	0.114	ng	92
21) 1,3-Dichloropropane	15.96	76	1663	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	0.00	91	0	N.D.		
24) 1,2,3-Trichloropropane	18.70	75	653	N.D.		
25) Bromobenzene	19.21	77	117	N.D.		
26) 2-Chlorotoluene	19.66	91	2911	N.D.		
27) 4-Chlorotoluene	19.75	91	864	N.D.		
28) Indane	20.78	117	896	N.D.		
29) Indene	20.95	115	56	N.D.		
30) 1,2,4,5-Tetramethylben...	21.61	119	620	N.D.		
31) 1,2,3,4-Tetramethylben...	21.64	119	1121	N.D.		
32) 1,2,3,5-Tetramethylben...	21.99	119	544	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\24\03242327.D
Acq On : 24 Mar 2023 21:24
Sample : P2301250-049 (1000mL)
Misc : S35-01312301

Vial: 11
Operator: WA
Inst : GCMS-16

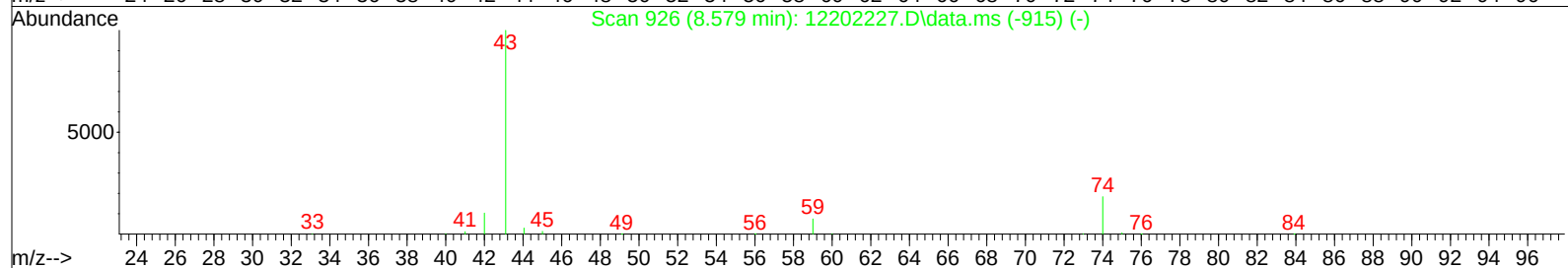
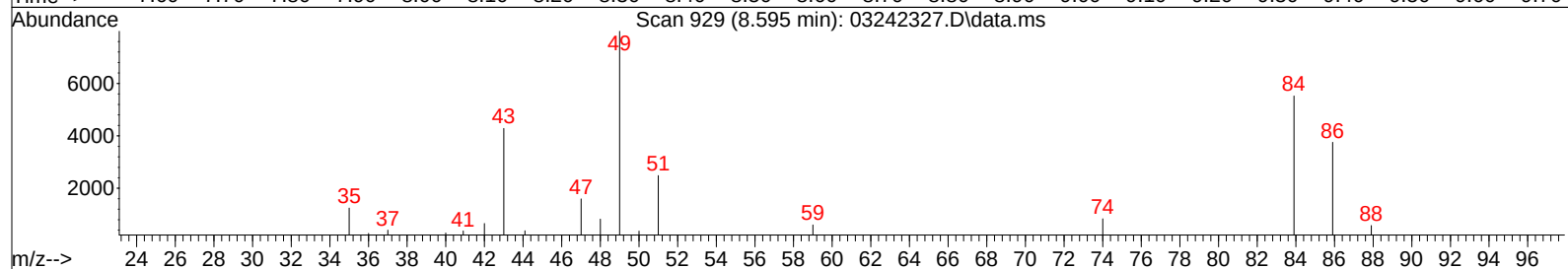
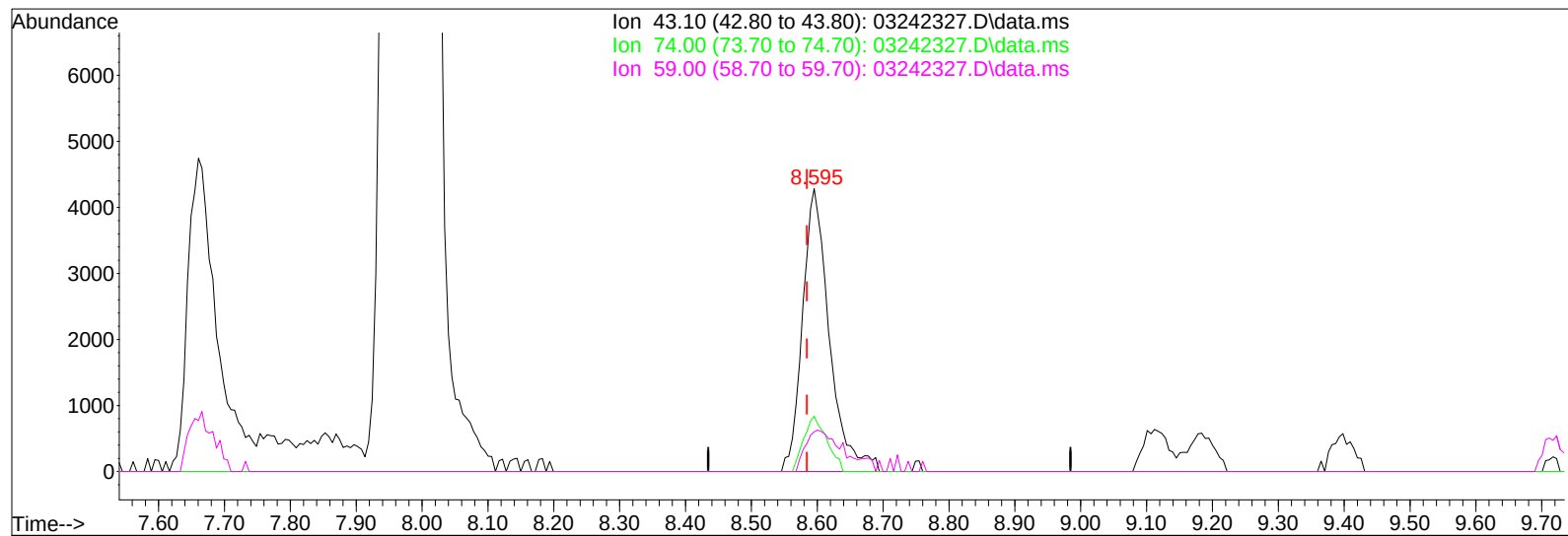
Quant Time: Mar 27 09:51:38 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



Data File : I:\MS16\DATA\2023_03\24\03242327.D
Acq On : 24 Mar 2023 21:24
Sample : P2301250-049 (1000mL)
Misc : S35-01312301

Vial: 11
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 09:26:47 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



TIC: 03242327.D\data.ms

(11) Methyl Acetate (T)

8.595min (+0.011) 0.24ng

response 12122

Ion	Exp%	Act%
43.10	100	100
74.00	18.10	16.89
59.00	7.20	21.27#
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG33-2

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-050

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02372

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.52 Final Pressure (psig): 3.86

Container Dilution Factor: 1.41

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.9	0.75	0.12	0.58	0.15	0.025	
74-87-3	Chloromethane	0.33	0.30	0.12	0.16	0.14	0.059	
75-01-4	Vinyl Chloride	ND	0.16	0.080	ND	0.061	0.031	
74-83-9	Bromomethane	ND	0.30	0.10	ND	0.076	0.027	
75-00-3	Chloroethane	ND	0.30	0.093	ND	0.11	0.035	
67-64-1	Acetone	3.3	7.4	1.7	1.4	3.1	0.71	J
75-69-4	Trichlorofluoromethane	1.4	0.73	0.11	0.25	0.13	0.020	
75-35-4	1,1-Dichloroethene	ND	0.16	0.10	ND	0.039	0.026	
75-09-2	Methylene Chloride	0.39	0.75	0.21	0.11	0.22	0.061	J
76-13-1	Trichlorotrifluoroethane	0.52	0.76	0.11	0.068	0.099	0.014	J
75-15-0	Carbon Disulfide	ND	1.5	0.23	ND	0.48	0.072	
156-60-5	trans-1,2-Dichloroethene	ND	0.16	0.10	ND	0.039	0.026	
75-34-3	1,1-Dichloroethane	ND	0.16	0.11	ND	0.038	0.027	
1634-04-4	Methyl tert-Butyl Ether	ND	0.76	0.089	ND	0.21	0.025	
78-93-3	2-Butanone (MEK)	0.60	1.5	0.16	0.20	0.50	0.053	J
156-59-2	cis-1,2-Dichloroethene	ND	0.16	0.11	ND	0.039	0.027	
67-66-3	Chloroform	0.24	0.16	0.10	0.048	0.032	0.021	
107-06-2	1,2-Dichloroethane	0.083	0.16	0.083	0.021	0.038	0.021	J
71-55-6	1,1,1-Trichloroethane	ND	0.16	0.093	ND	0.028	0.017	
71-43-2	Benzene	0.99	0.16	0.11	0.31	0.049	0.034	
56-23-5	Carbon Tetrachloride	0.48	0.16	0.10	0.077	0.025	0.017	
110-82-7	Cyclohexane	ND	1.5	0.21	ND	0.43	0.061	
78-87-5	1,2-Dichloropropane	ND	0.16	0.093	ND	0.034	0.020	
75-27-4	Bromodichloromethane	ND	0.16	0.11	ND	0.023	0.016	
79-01-6	Trichloroethene	0.70	0.16	0.10	0.13	0.029	0.019	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG33-2

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-050

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02372

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.52 Final Pressure (psig): 3.86

Container Dilution Factor: 1.41

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.76	0.12	ND	0.17	0.026	
108-10-1	4-Methyl-2-pentanone	ND	1.6	0.10	ND	0.38	0.025	
10061-02-6	trans-1,3-Dichloropropene	ND	0.72	0.16	ND	0.16	0.034	
79-00-5	1,1,2-Trichloroethane	ND	0.16	0.076	ND	0.028	0.014	
108-88-3	Toluene	0.61	0.75	0.092	0.16	0.20	0.024	J
591-78-6	2-Hexanone	ND	1.6	0.093	ND	0.38	0.023	
124-48-1	Dibromochloromethane	ND	0.16	0.099	ND	0.018	0.012	
106-93-4	1,2-Dibromoethane	ND	0.16	0.087	ND	0.020	0.011	
127-18-4	Tetrachloroethene	0.23	0.16	0.097	0.034	0.023	0.014	
108-90-7	Chlorobenzene	ND	0.75	0.10	ND	0.16	0.022	
100-41-4	Ethylbenzene	ND	0.75	0.11	ND	0.17	0.024	
179601-23-1	m,p-Xylenes	0.26	1.6	0.20	0.059	0.36	0.045	J
75-25-2	Bromoform	ND	0.76	0.16	ND	0.074	0.015	
100-42-5	Styrene	ND	0.75	0.12	ND	0.18	0.028	
95-47-6	o-Xylene	ND	0.75	0.11	ND	0.17	0.025	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	0.10	ND	0.023	0.015	
98-82-8	Cumene	ND	0.76	0.11	ND	0.15	0.022	
541-73-1	1,3-Dichlorobenzene	ND	0.75	0.11	ND	0.12	0.019	
106-46-7	1,4-Dichlorobenzene	ND	0.75	0.12	ND	0.12	0.019	
95-50-1	1,2-Dichlorobenzene	ND	0.76	0.11	ND	0.13	0.019	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.6	0.14	ND	0.16	0.015	
120-82-1	1,2,4-Trichlorobenzene	ND	1.6	0.18	ND	0.21	0.025	
79-20-9	Methyl Acetate	ND	0.71	0.34	ND	0.23	0.11	X
108-87-2	Methylcyclohexane	ND	0.71	0.37	ND	0.18	0.091	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS16\DATA\2023_03\24\03242328.D
 Acq On : 24 Mar 2023 21:58
 Sample : P2301250-050 (1000mL)
 Misc : S35-01312301

Vial: 12
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 09:19:20 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	200114	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	913191	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.72	54	204407	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	359965	13.526	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	108.24%	
57) Toluene-d8 (SS2)	15.86	98	1056243	11.803	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	94.40%	
73) Bromofluorobenzene (SS3)	19.10	174	321201	11.508	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	92.08%	

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	4.35	85	60533	2.024	ng	100
4) Chloromethane	4.64	50	6495	0.232	ng	93
5) 1,2-Dichloro-1,1,2,2-t...	4.92	135	1523	0.091	ng	85
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.35	54	496	N.D.		
8) Bromomethane	5.79	94	255	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.48	45	30580	1.588	ng	95
11) Acetonitrile	6.74	41	3055	0.063	ng	# 70
12) Acrolein	6.95	56	1407	0.103	ng	98
13) Acetone	7.16	58	34960	2.374	ng	# 65
14) Trichlorofluoromethane	7.39	101	27059	0.981	ng	98
15) 2-Propanol (Isopropanol)	7.69	45	10781	0.210	ng	87
16) Acrylonitrile	7.98	53	672	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	8.62	59	1095	N.D.		
19) Methylene Chloride	8.57	84	4523	0.278	ng	92
20) 3-Chloro-1-propene (Al...	8.66	41	492	N.D.		
21) Trichlorotrifluoroethane	8.99	151	5070	0.369	ng	93
22) Carbon Disulfide	8.85	76	1123	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	10.23	73	1957	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	10.62	72	4567	0.428	ng	99
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	11.42	61	30638	4.387	ng	95
31) n-Hexane	11.40	57	6871	0.197	ng	97
32) Chloroform	11.45	83	4473	0.167	ng	97
34) Tetrahydrofuran (THF)	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	12.26	62	1286	0.059	ng	77
38) 1,1,1-Trichloroethane	12.54	97	253	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.02	78	44973	0.699	ng	100
42) Carbon Tetrachloride	13.18	117	7155	0.342	ng	95
43) Cyclohexane	13.31	84	1461	0.054	ng	95
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	13.87	63	172	N.D.		
46) Bromodichloromethane	14.06	83	272	N.D.		
47) Trichloroethene	14.11	130	8732	0.499	ng	99
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	14.18	57	6974	0.080	ng	77
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS16\DATA\2023_03\24\03242328.D
 Acq On : 24 Mar 2023 21:58
 Sample : P2301250-050 (1000mL)
 Misc : S35-01312301

Vial: 12
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 09:19:20 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

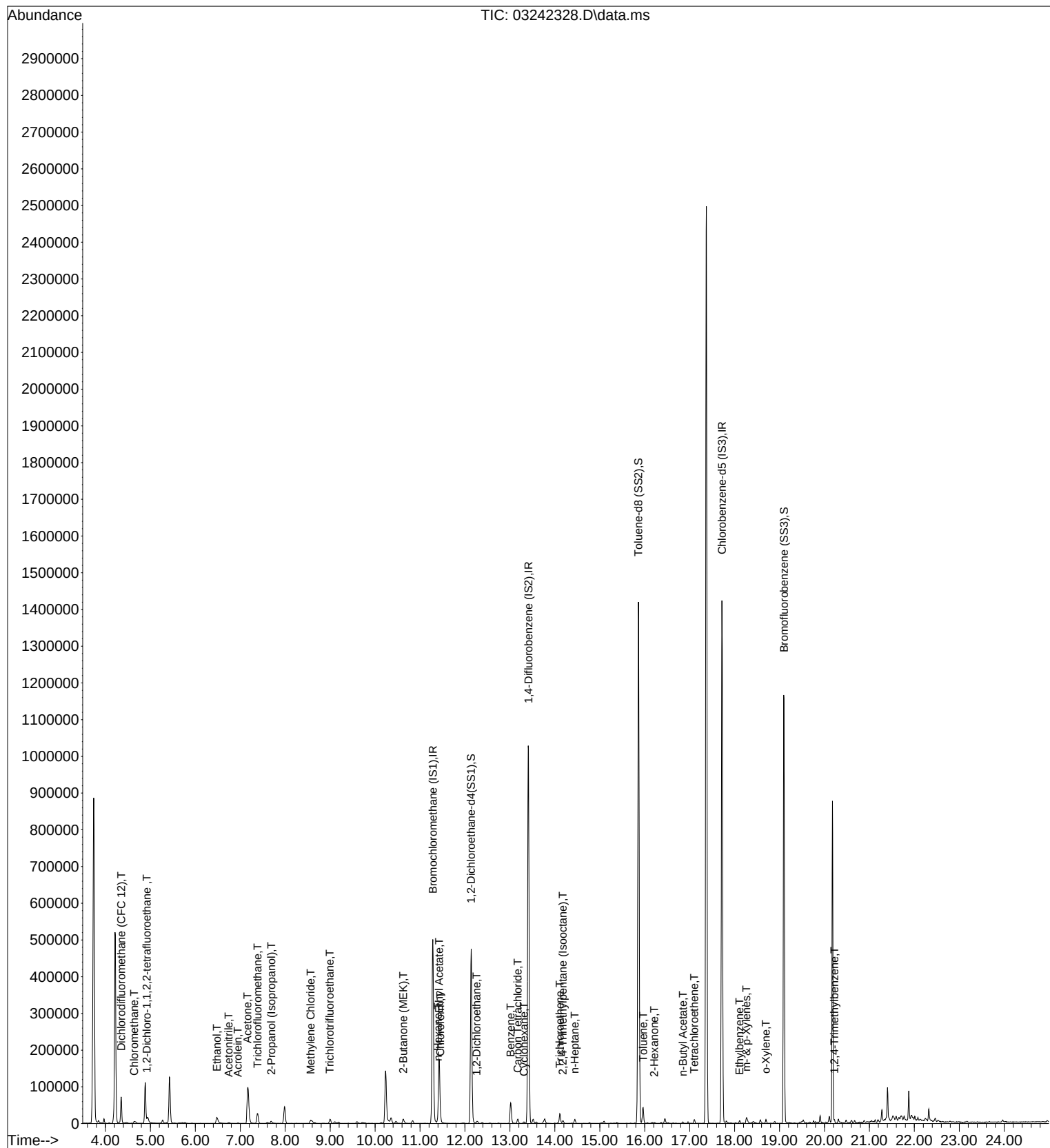
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.44	71	2641	0.140	ng	93
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	15.03	58	250	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.96	91	34036	0.434	ng	98
59) 2-Hexanone	16.21	43	2126	0.051	ng	# 63
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.85	43	3600	0.076	ng	92
63) n-Octane	16.97	57	658	N.D.		
64) Tetrachloroethene	17.10	166	3297	0.165	ng	98
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	18.11	91	5987	0.068	ng	97
67) m- & p-Xylenes	18.26	91	12739	0.182	ng	100
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.60	104	1041	N.D.		
70) o-Xylene	18.70	91	5053	0.073	ng	100
71) n-Nonane	18.89	43	2101	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	19.22	105	703	N.D.		
75) alpha-Pinene	19.57	93	504	N.D.		
76) n-Propylbenzene	19.67	91	1813	N.D.		
77) 3-Ethyltoluene	20.22	105	4864	No Calib	#	
78) 4-Ethyltoluene	19.79	105	1525	N.D.		
79) 1,3,5-Trimethylbenzene	19.86	105	1393	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.22	105	4864	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.22	105	4864	0.069	ng	80
83) n-Decane	20.18	58	886	No Calib	#	
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
86) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
87) sec-Butylbenzene	20.45	105	280	N.D.		
88) 4-Isopropyltoluene (p-...	20.59	119	1687	N.D.		
89) 1,2,3-Trimethylbenzene	20.22	105	4864	No Calib	#	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	20.73	68	433	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	21.40	58	1210	No Calib	#	
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	22.33	128	2724	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	18.19	55	305	No Calib	#	
99) tert-Butylbenzene	0.00	119	0	N.D.	d	
100) n-Butylbenzene	20.96	91	1197	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\24\03242328.D
Acq On : 24 Mar 2023 21:58
Sample : P2301250-050 (1000mL)
Misc : S35-01312301

Vial: 12
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 09:19:20 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



Data File : I:\MS16\DATA\2023_03\24\03242328.D
 Acq On : 24 Mar 2023 21:58
 Sample : P2301250-050 (1000mL)
 Misc : S35-01312301

Vial: 12
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 09:19:20 2023

3/27/23

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	200114	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	913191	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.72	54	204407	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	359965	13.526	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	108.24%	
57) Toluene-d8 (SS2)	15.86	98	1056243	11.803	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	94.40%	
73) Bromofluorobenzene (SS3)	19.10	174	321201	11.508	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	92.08%	

Target Compounds

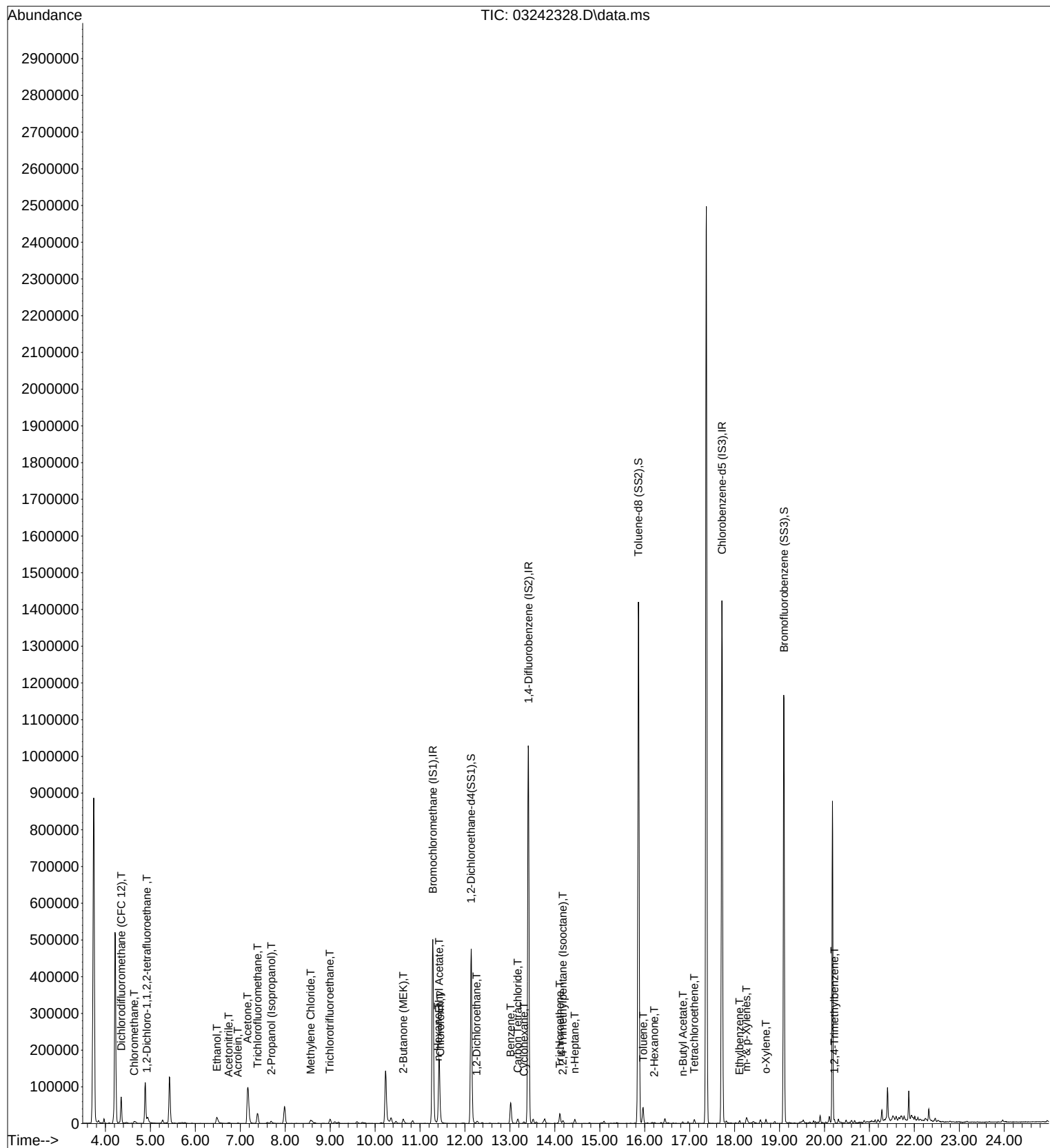
						Qvalue
3) Dichlorodifluoromethan...	4.35	85	60533	2.024	ng	100
4) Chloromethane	4.64	50	6495	0.232	ng	93
5) 1,2-Dichloro-1,1,2,2-t...	4.92	135	1523	0.091	ng	85
10) Ethanol	6.48	45	30580	1.588	ng	95
11) Acetonitrile	6.74	41	3055	0.063	ng	# 70
12) Acrolein	6.95	56	1407	0.103	ng	98
13) Acetone	7.16	58	34960	2.374	ng	# 65
14) Trichlorofluoromethane	7.39	101	27059	0.981	ng	98
15) 2-Propanol (Isopropanol)	7.69	45	10781	0.210	ng	87
19) Methylene Chloride	8.57	84	4523	0.278	ng	92
21) Trichlorotrifluoroethane	8.99	151	5070	0.369	ng	93
27) 2-Butanone (MEK)	10.62	72	4567	0.428	ng	99
30) Ethyl Acetate	11.42	61	30638	4.387	ng	95
31) n-Hexane	11.40	57	6871	0.197	ng	97
32) Chloroform	11.45	83	4473	0.167	ng	97
36) 1,2-Dichloroethane	12.26	62	1286	0.059	ng	77
41) Benzene	13.02	78	44973	0.699	ng	100
42) Carbon Tetrachloride	13.18	117	7155	0.342	ng	95
43) Cyclohexane	13.31	84	1461	0.054	ng	95
47) Trichloroethene	14.11	130	8732	0.499	ng	99
49) 2,2,4-Trimethylpentane...	14.18	57	6974	0.080	ng	77
51) n-Heptane	14.44	71	2641	0.140	ng	93
58) Toluene	15.96	91	34036	0.434	ng	98
59) 2-Hexanone	16.21	43	2126	0.051	ng	# 63
62) n-Butyl Acetate	16.85	43	3600	0.076	ng	92
64) Tetrachloroethene	17.10	166	3297	0.165	ng	98
66) Ethylbenzene	18.11	91	5987	0.068	ng	97
67) m- & p-Xylenes	18.26	91	12739	0.182	ng	100
70) o-Xylene	18.70	91	5053	0.073	ng	100
82) 1,2,4-Trimethylbenzene	20.22	105	4864	0.069	ng	80

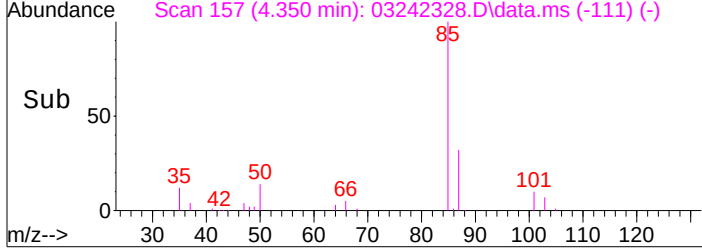
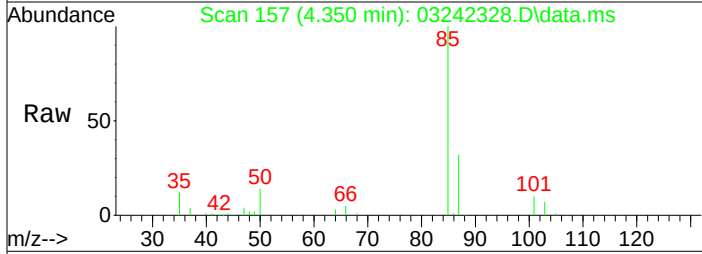
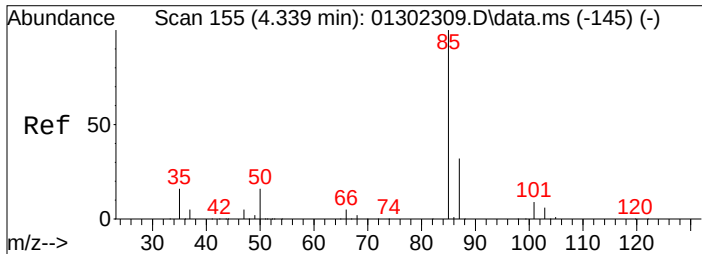
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS16\DATA\2023_03\24\03242328.D
Acq On : 24 Mar 2023 21:58
Sample : P2301250-050 (1000mL)
Misc : S35-01312301

Vial: 12
Operator: WA
Inst : GCMS-16

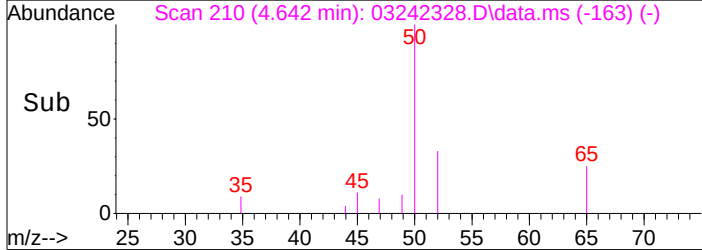
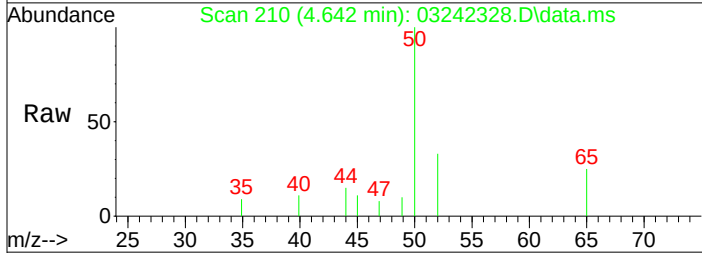
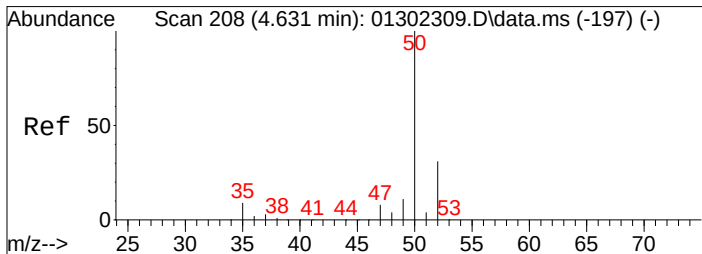
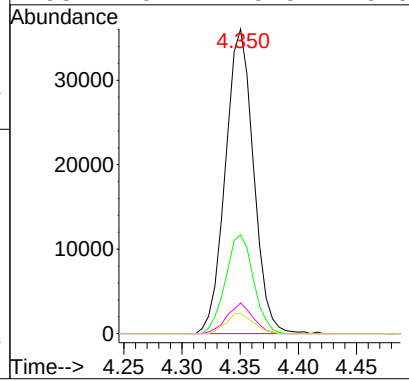
Quant Time: Mar 27 09:19:20 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M





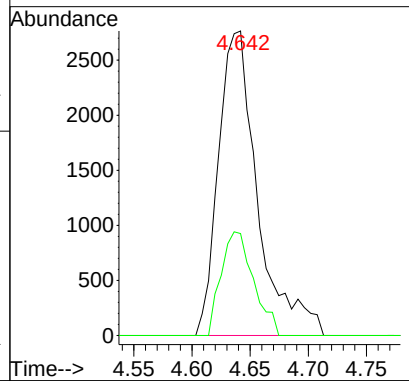
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 2.02 ng
 RT: 4.35 min Scan# 157
 Delta R.T. 0.000 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 21:58

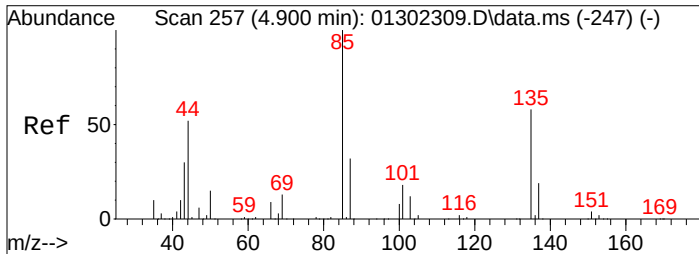
Tgt Ion:	85	Resp:	60533
Ion Ratio		Lower	Upper
85	100		
87	32.3	12.1	52.1
101	9.2	0.0	29.3
103	6.4	0.0	26.0



#4
 Chloromethane
 Concen: 0.23 ng
 RT: 4.64 min Scan# 210
 Delta R.T. 0.006 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 21:58

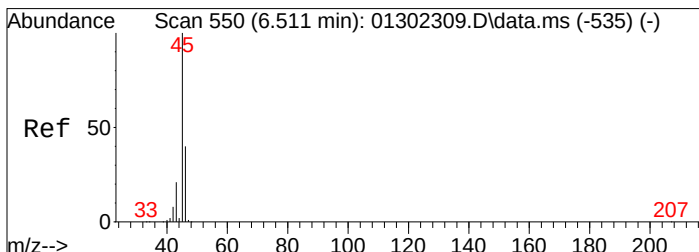
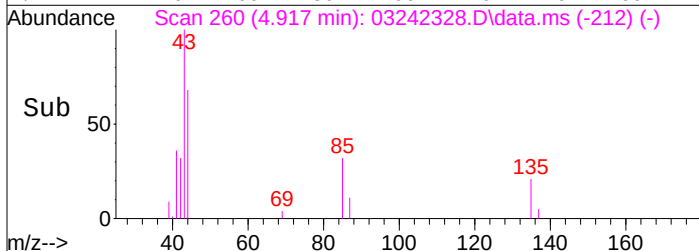
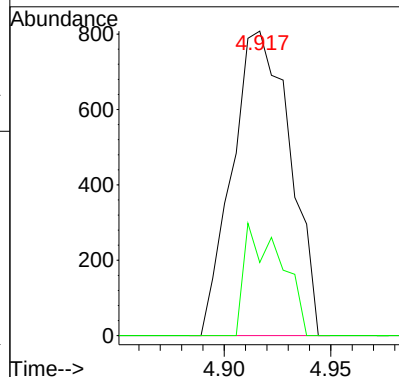
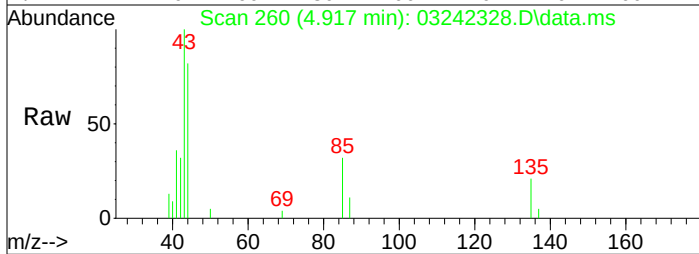
Tgt Ion:	50	Resp:	6495
Ion Ratio		Lower	Upper
50	100		
52	28.1	12.2	52.2





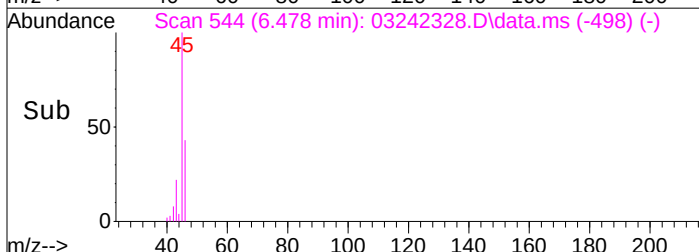
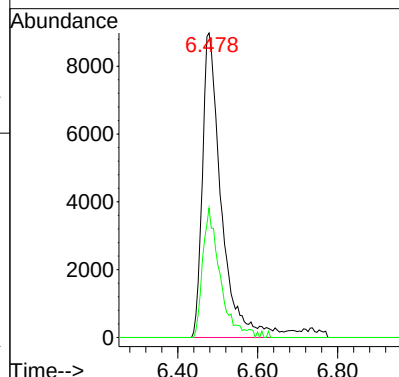
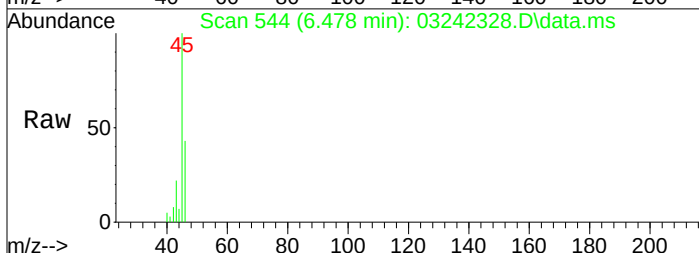
#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.09 ng
 RT: 4.92 min Scan# 260
 Delta R.T. 0.011 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 21:58

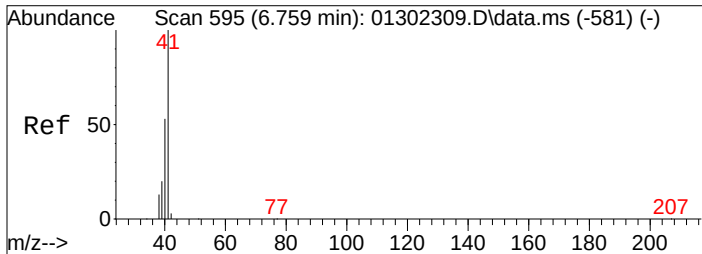
Tgt Ion: 135 Resp: 1523
 Ion Ratio Lower Upper
 135 100
 137 23.6 12.0 52.0



#10
 Ethanol
 Concen: 1.59 ng
 RT: 6.48 min Scan# 544
 Delta R.T. 0.000 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 21:58

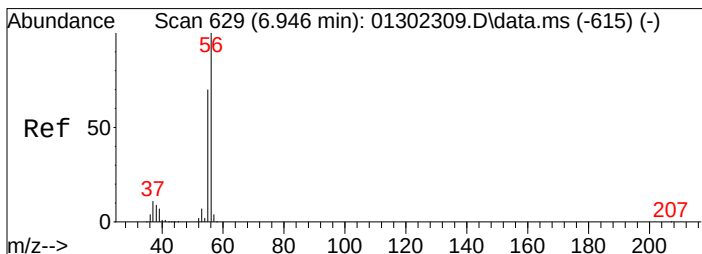
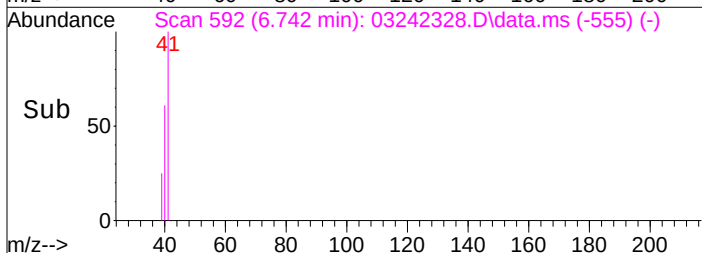
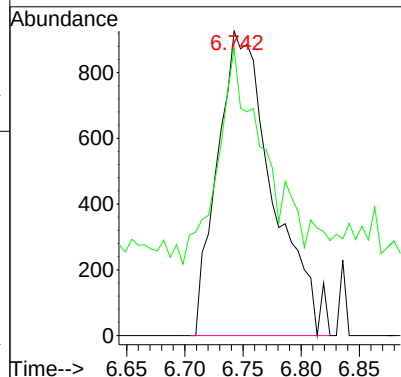
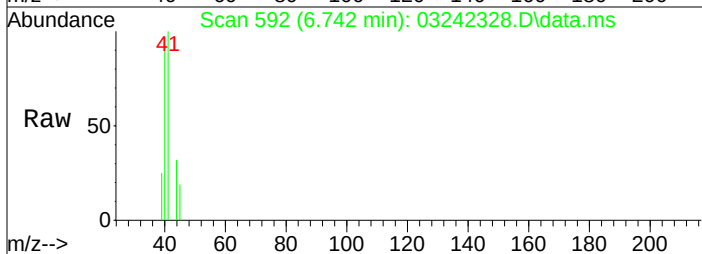
Tgt Ion: 45 Resp: 30580
 Ion Ratio Lower Upper
 45 100
 46 37.6 20.5 60.5





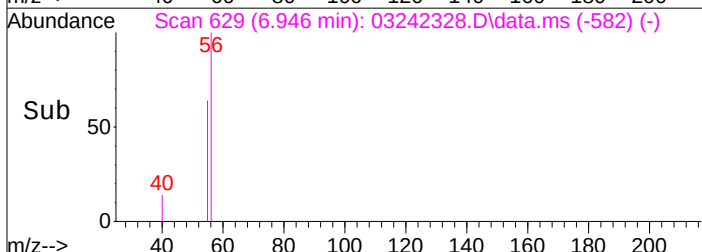
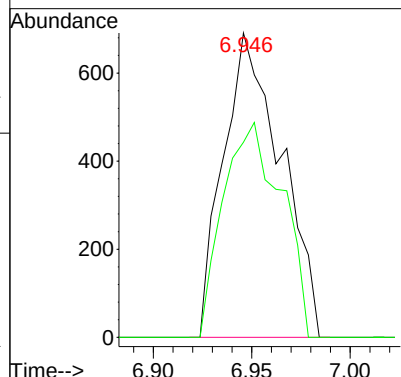
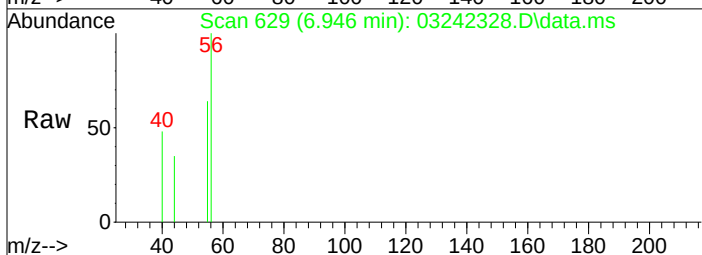
#11
Acetonitrile
Concen: 0.06 ng
RT: 6.74 min Scan# 592
Delta R.T. 0.005 min
Lab File: 03242328.D
Acq: 24 Mar 2023 21:58

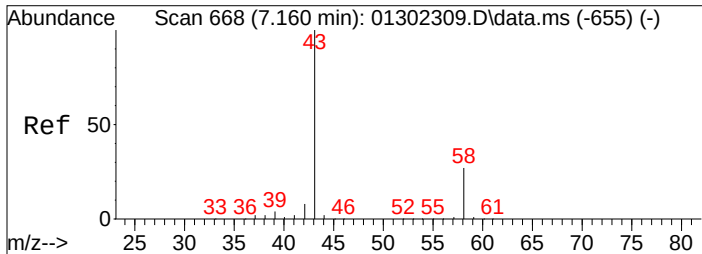
Tgt Ion: 41 Resp: 3055
Ion Ratio Lower Upper
41 100
40 73.6 32.4 72.4#



#12
Acrolein
Concen: 0.10 ng
RT: 6.95 min Scan# 629
Delta R.T. 0.011 min
Lab File: 03242328.D
Acq: 24 Mar 2023 21:58

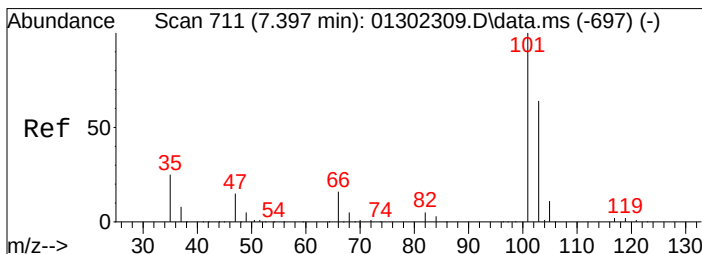
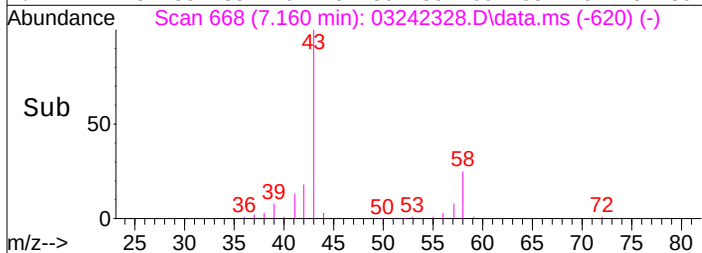
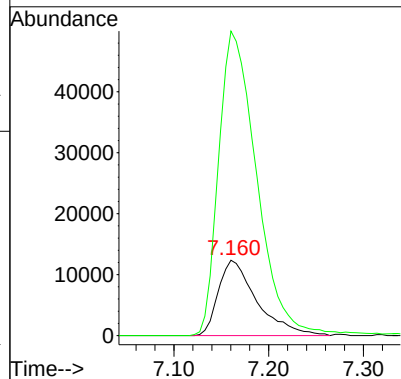
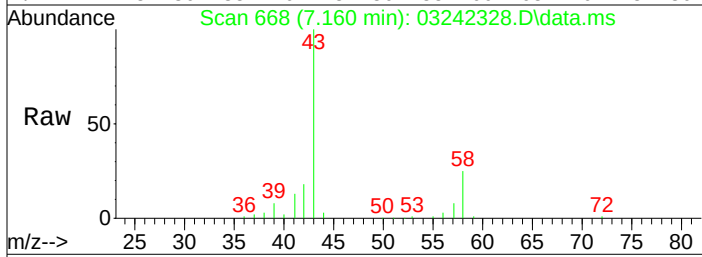
Tgt Ion: 56 Resp: 1407
Ion Ratio Lower Upper
56 100
55 71.6 49.9 89.9





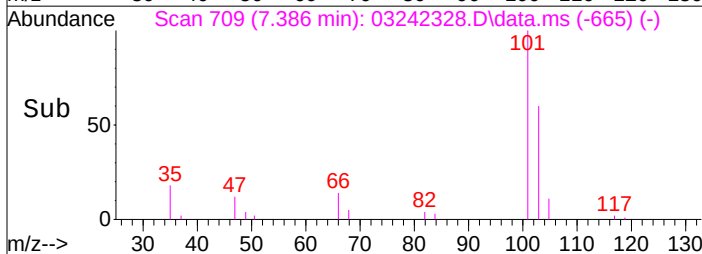
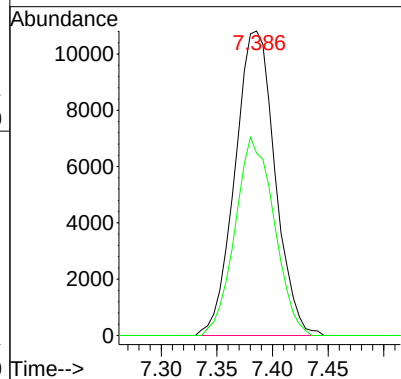
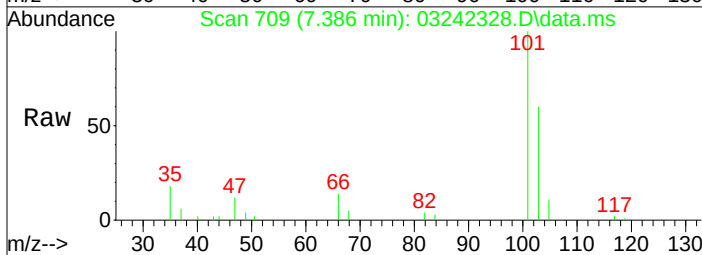
#13
Acetone
Concen: 2.37 ng
RT: 7.16 min Scan# 668
Delta R.T. 0.016 min
Lab File: 03242328.D
Acq: 24 Mar 2023 21:58

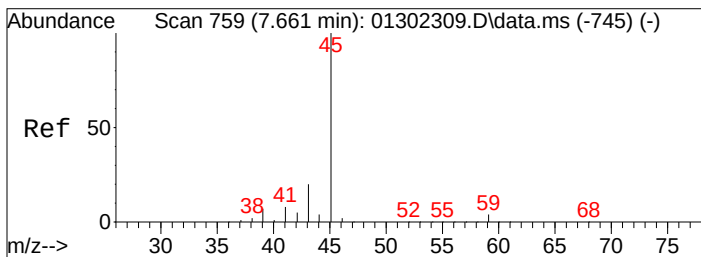
Tgt Ion: 58 Resp: 34960
Ion Ratio Lower Upper
58 100
43 401.5 298.5 358.5#



#14
Trichlorofluoromethane
Concen: 0.98 ng
RT: 7.39 min Scan# 709
Delta R.T. -0.011 min
Lab File: 03242328.D
Acq: 24 Mar 2023 21:58

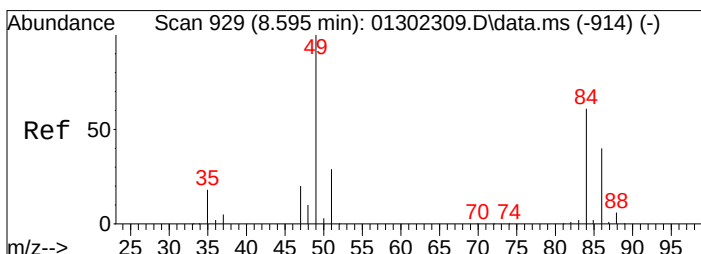
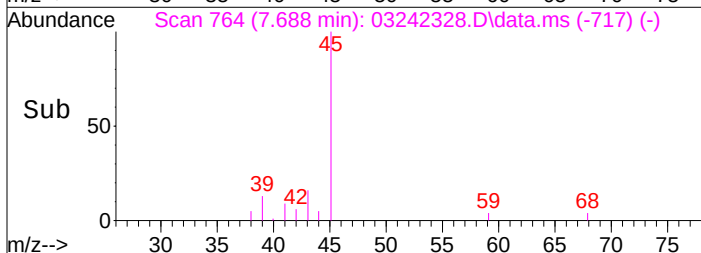
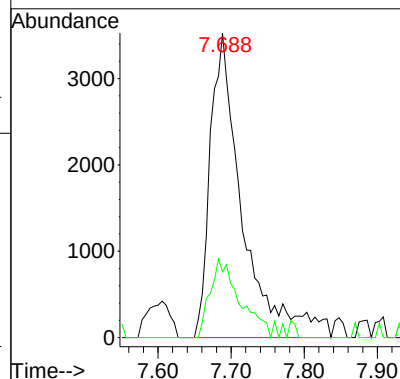
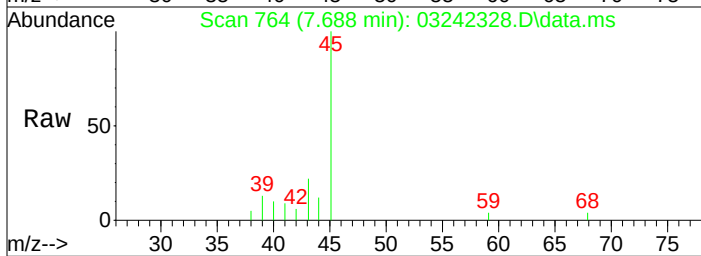
Tgt Ion: 101 Resp: 27059
Ion Ratio Lower Upper
101 100
103 63.5 44.8 84.8





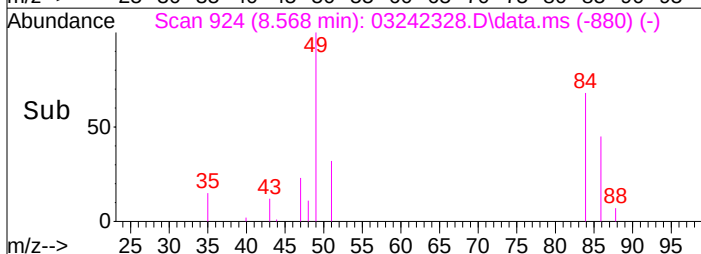
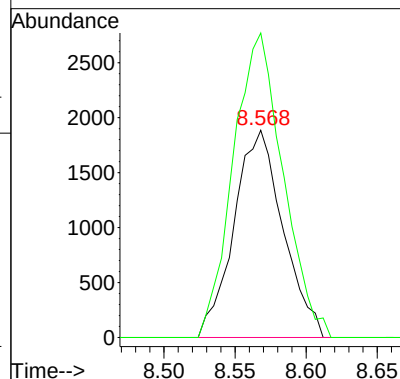
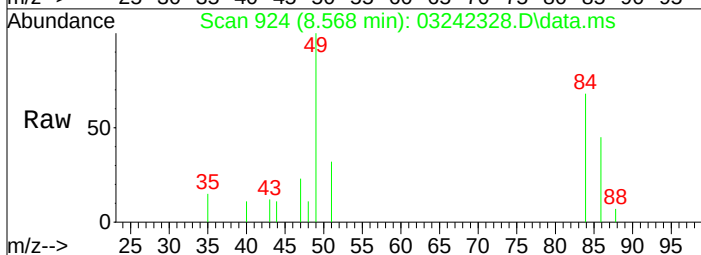
#15
2-Propanol (Isopropanol)
Concen: 0.21 ng
RT: 7.69 min Scan# 764
Delta R.T. 0.008 min
Lab File: 03242328.D
Acq: 24 Mar 2023 21:58

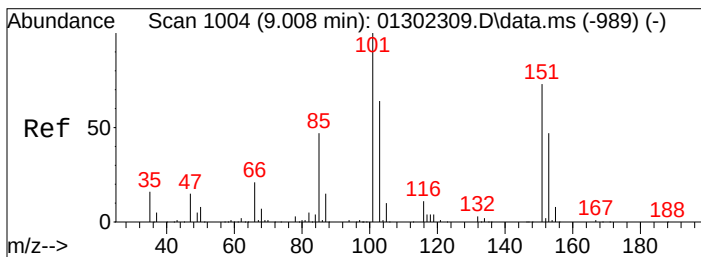
Tgt Ion: 45 Resp: 10781
Ion Ratio Lower Upper
45 100
43 23.9 0.0 37.9



#19
Methylene Chloride
Concen: 0.28 ng
RT: 8.57 min Scan# 924
Delta R.T. -0.011 min
Lab File: 03242328.D
Acq: 24 Mar 2023 21:58

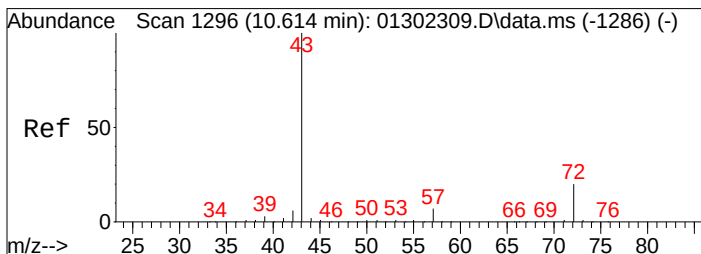
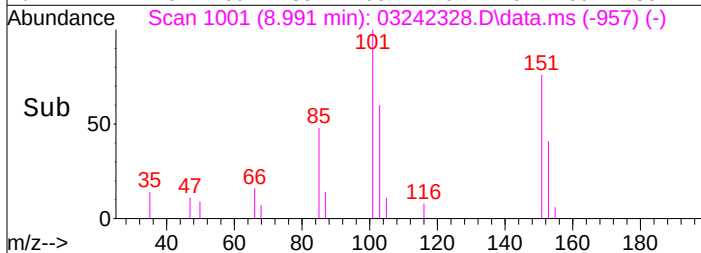
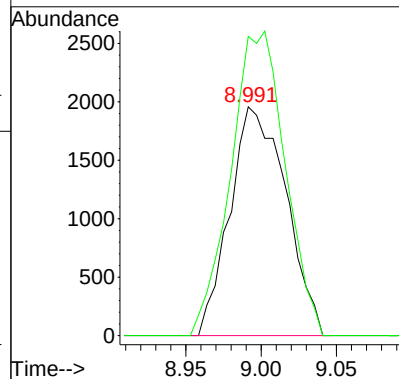
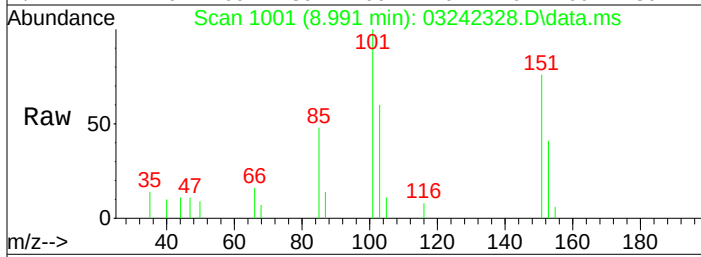
Tgt Ion: 84 Resp: 4523
Ion Ratio Lower Upper
84 100
49 149.2 135.0 185.0





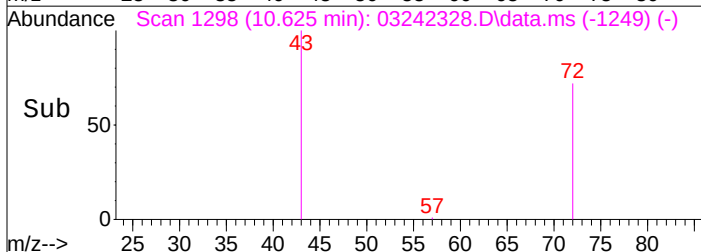
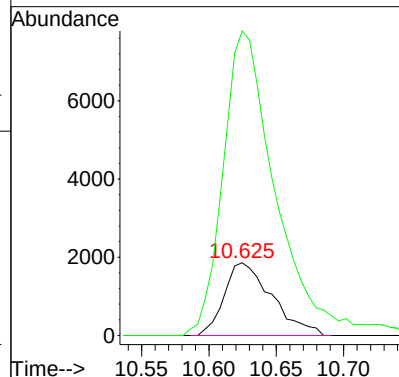
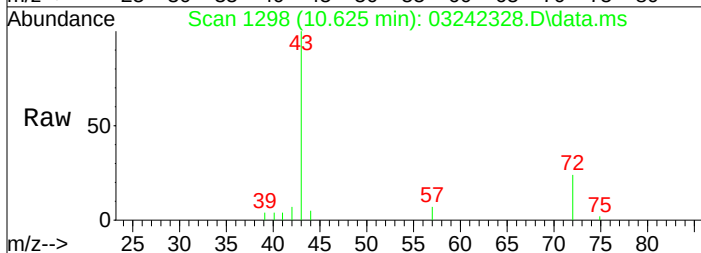
#21
 Trichlorotrifluoroethane
 Concen: 0.37 ng
 RT: 8.99 min Scan# 1001
 Delta R.T. -0.011 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 21:58

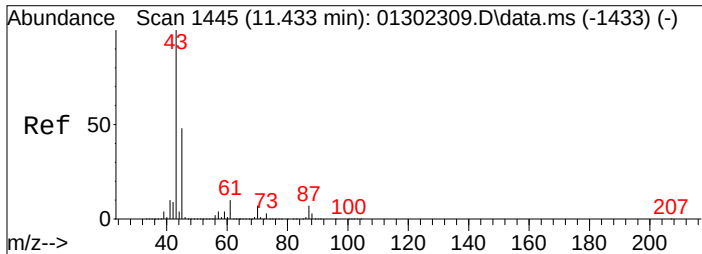
Tgt Ion: 151 Resp: 5070
 Ion Ratio Lower Upper
 151 100
 101 129.4 101.5 141.5



#27
 2-Butanone (MEK)
 Concen: 0.43 ng
 RT: 10.62 min Scan# 1298
 Delta R.T. 0.017 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 21:58

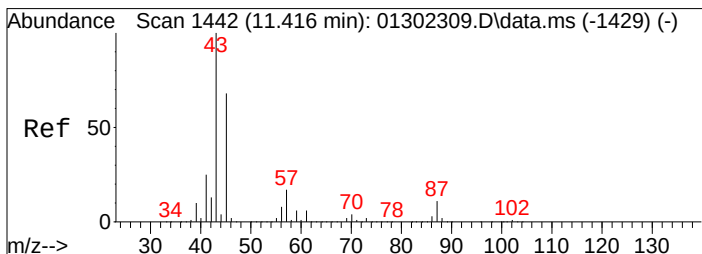
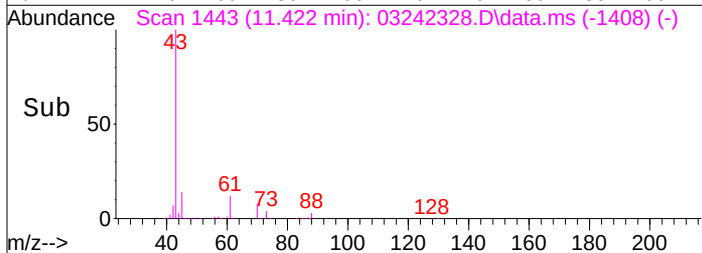
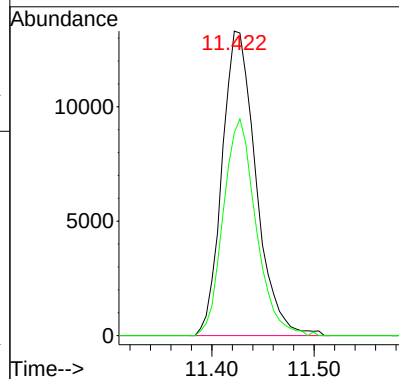
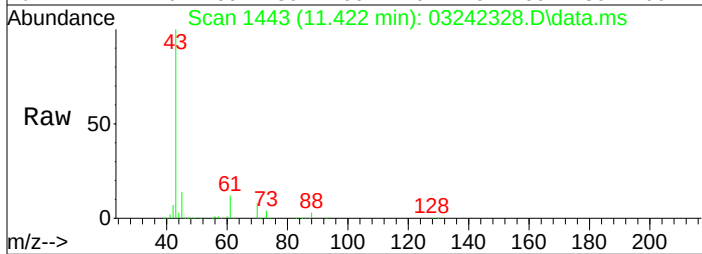
Tgt Ion: 72 Resp: 4567
 Ion Ratio Lower Upper
 72 100
 43 466.7 449.4 489.4





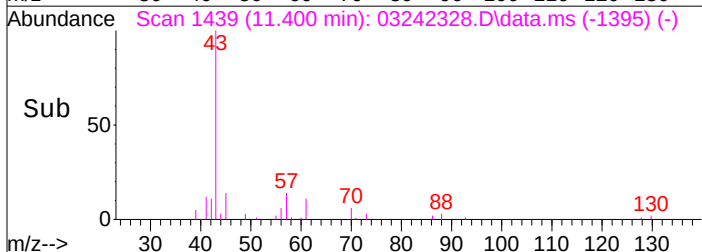
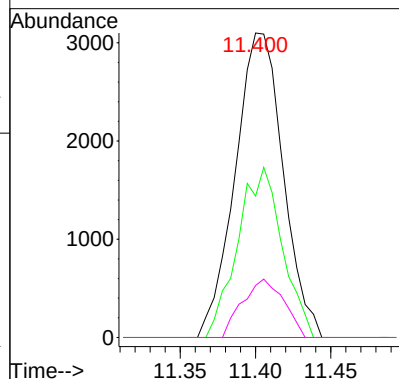
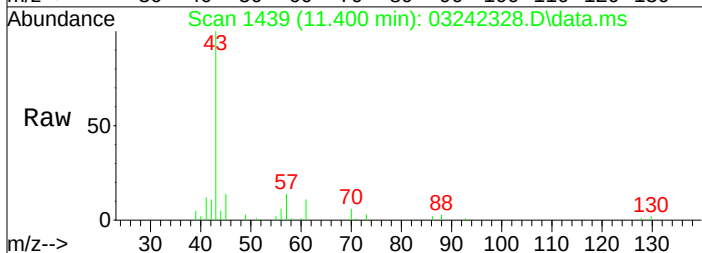
#30
Ethyl Acetate
Concen: 4.39 ng
RT: 11.42 min Scan# 1443
Delta R.T. -0.005 min
Lab File: 03242328.D
Acq: 24 Mar 2023 21:58

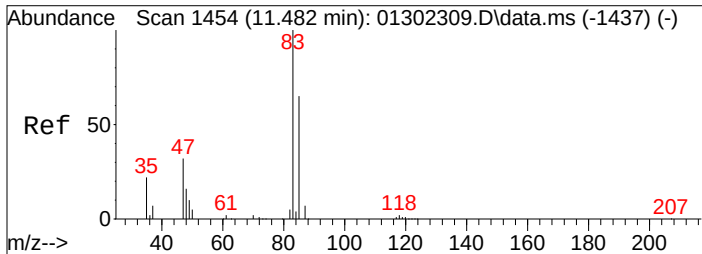
Tgt Ion: 61 Resp: 30638
Ion Ratio Lower Upper
61 100
70 68.6 52.8 92.8



#31
n-Hexane
Concen: 0.20 ng
RT: 11.40 min Scan# 1439
Delta R.T. -0.011 min
Lab File: 03242328.D
Acq: 24 Mar 2023 21:58

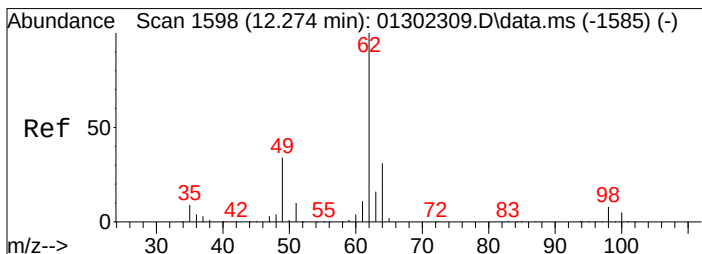
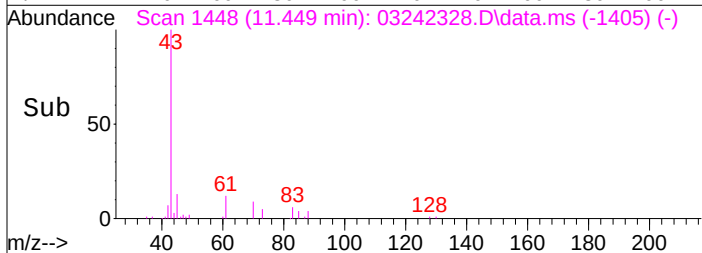
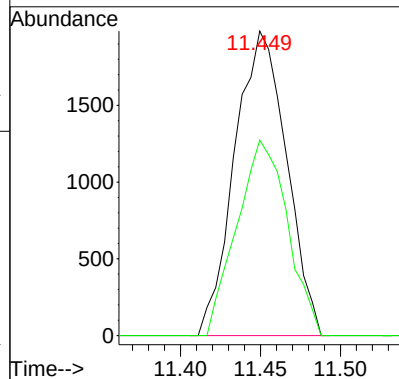
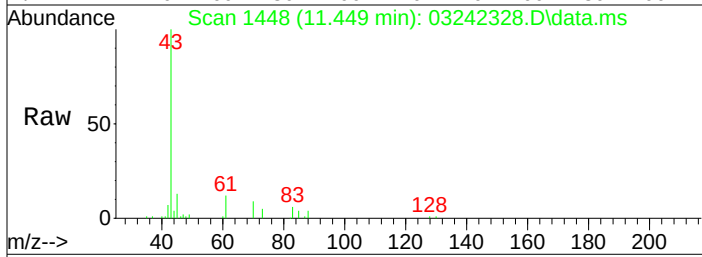
Tgt Ion: 57 Resp: 6871
Ion Ratio Lower Upper
57 100
56 51.8 39.9 59.9
86 16.5 12.3 18.5





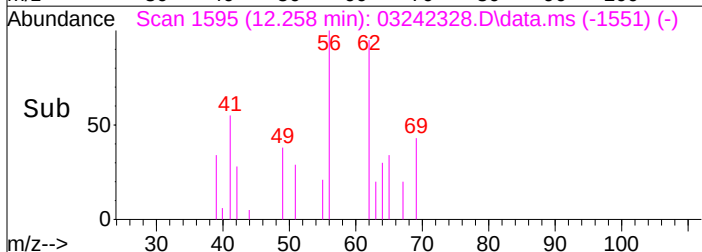
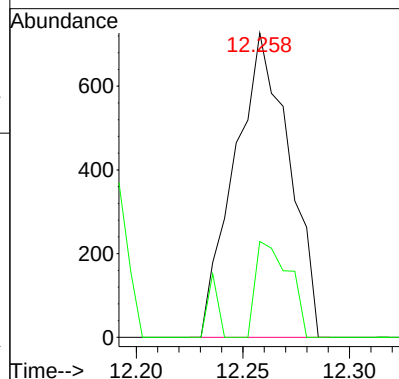
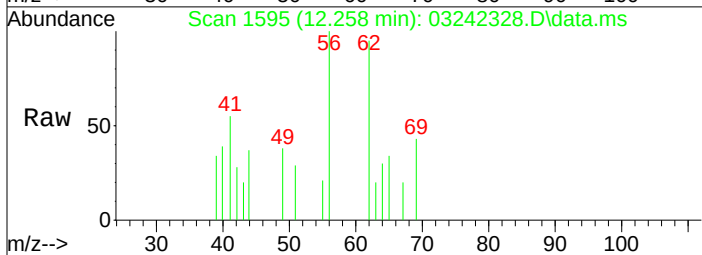
#32
Chloroform
Concen: 0.17 ng
RT: 11.45 min Scan# 1448
Delta R.T. -0.016 min
Lab File: 03242328.D
Acq: 24 Mar 2023 21:58

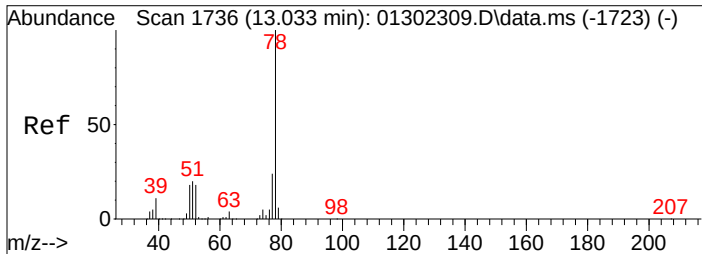
Tgt Ion: 83 Resp: 4473
Ion Ratio Lower Upper
83 100
85 62.8 45.5 85.5



#36
1,2-Dichloroethane
Concen: 0.06 ng
RT: 12.26 min Scan# 1595
Delta R.T. -0.011 min
Lab File: 03242328.D
Acq: 24 Mar 2023 21:58

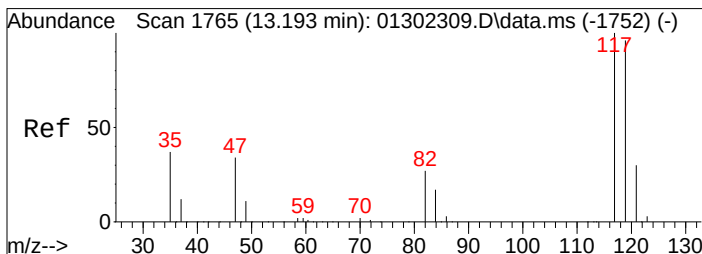
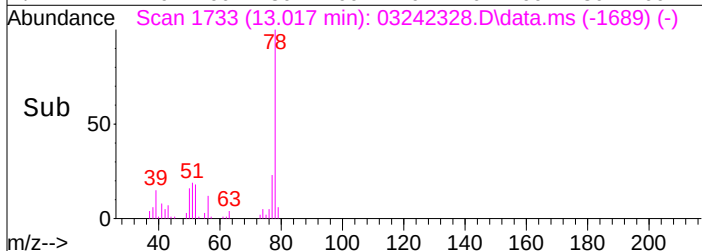
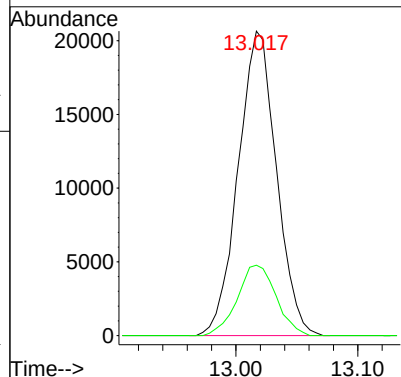
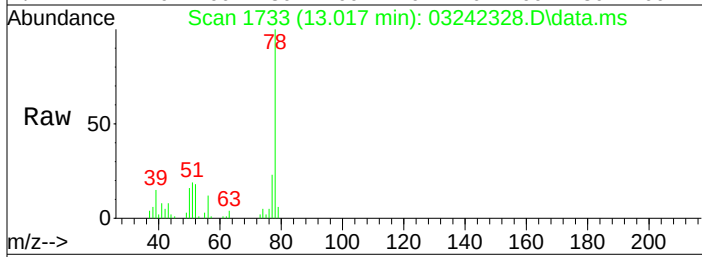
Tgt Ion: 62 Resp: 1286
Ion Ratio Lower Upper
62 100
64 19.4 12.5 52.5





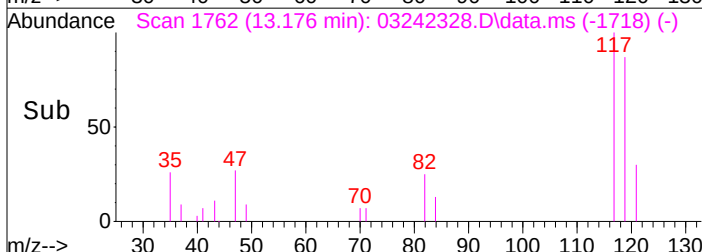
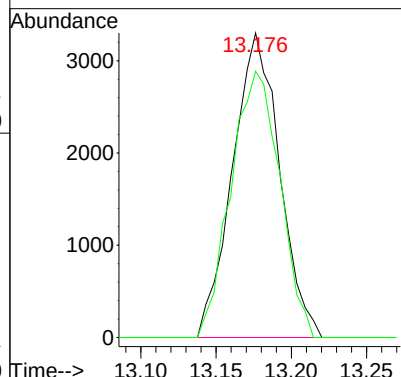
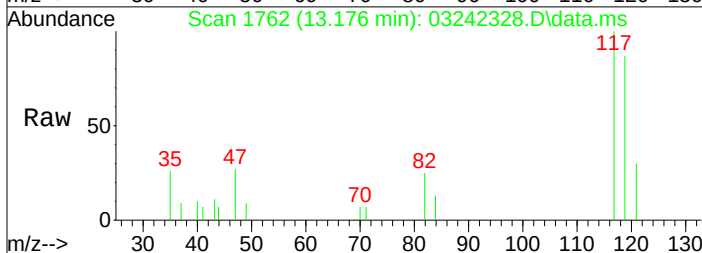
#41
Benzene
Concen: 0.70 ng
RT: 13.02 min Scan# 1733
Delta R.T. -0.011 min
Lab File: 03242328.D
Acq: 24 Mar 2023 21:58

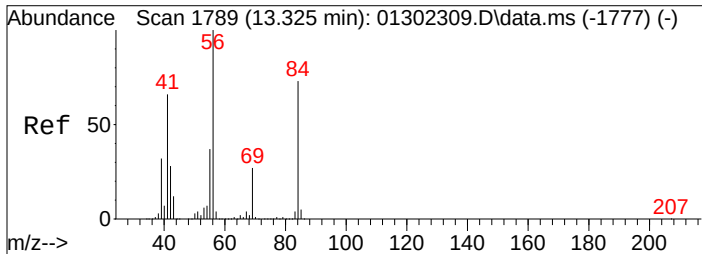
Tgt Ion: 78 Resp: 44973
Ion Ratio Lower Upper
78 100
77 23.5 3.3 43.3



#42
Carbon Tetrachloride
Concen: 0.34 ng
RT: 13.18 min Scan# 1762
Delta R.T. -0.011 min
Lab File: 03242328.D
Acq: 24 Mar 2023 21:58

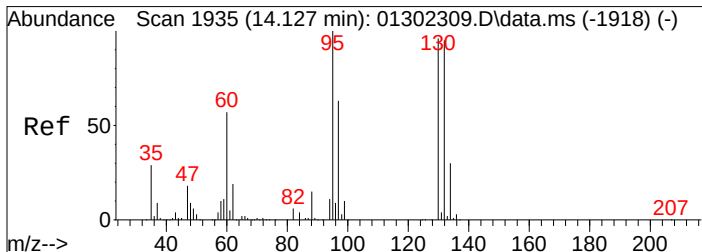
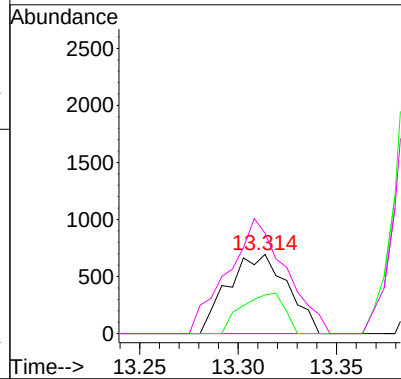
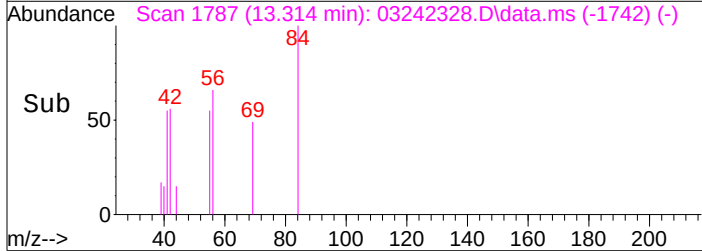
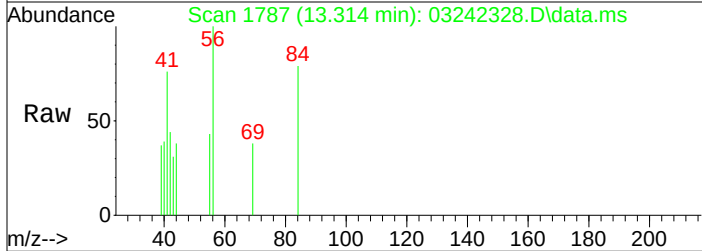
Tgt Ion: 117 Resp: 7155
Ion Ratio Lower Upper
117 100
119 91.1 76.2 116.2





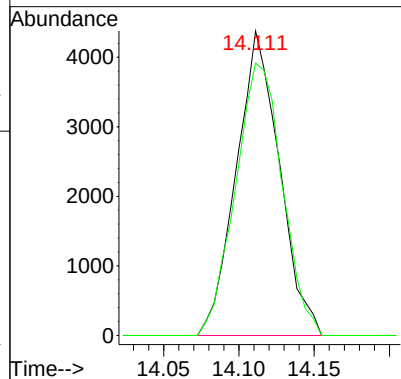
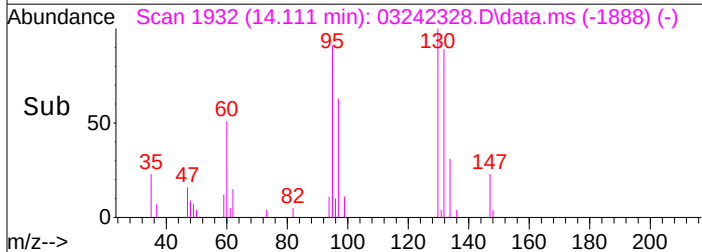
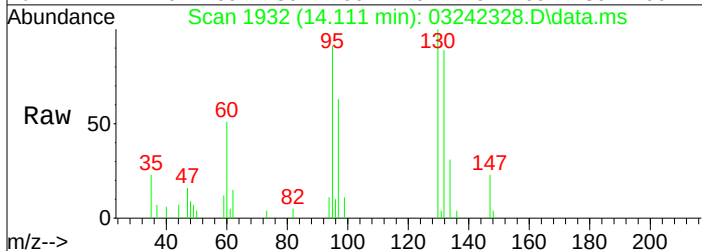
#43
Cyclohexane
Concen: 0.05 ng
RT: 13.31 min Scan# 1787
Delta R.T. -0.005 min
Lab File: 03242328.D
Acq: 24 Mar 2023 21:58

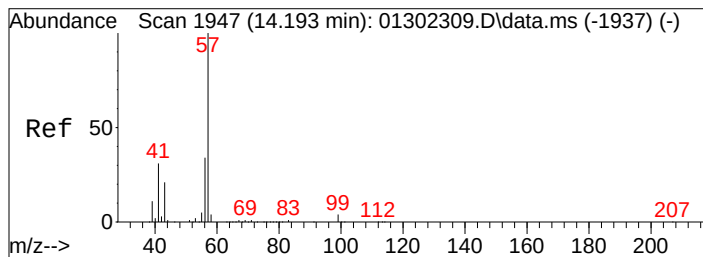
Tgt Ion:	84	Resp:	1461
Ion Ratio		Lower	Upper
84	100		
69	36.5	16.2	56.2
56	141.9	115.2	155.2



#47
Trichloroethene
Concen: 0.50 ng
RT: 14.11 min Scan# 1932
Delta R.T. -0.011 min
Lab File: 03242328.D
Acq: 24 Mar 2023 21:58

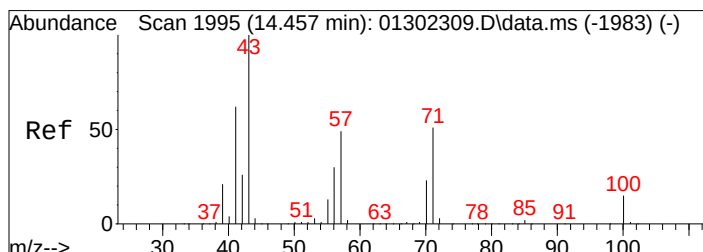
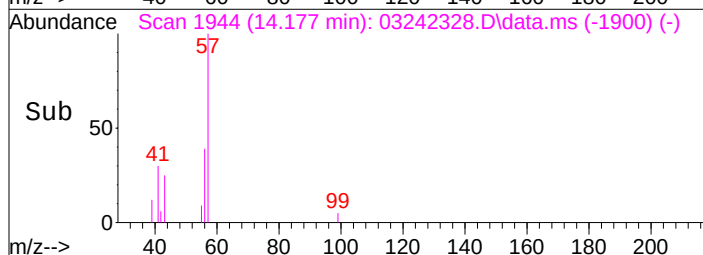
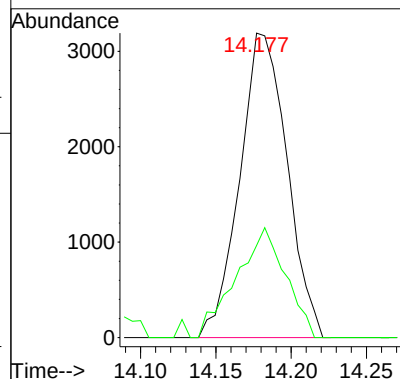
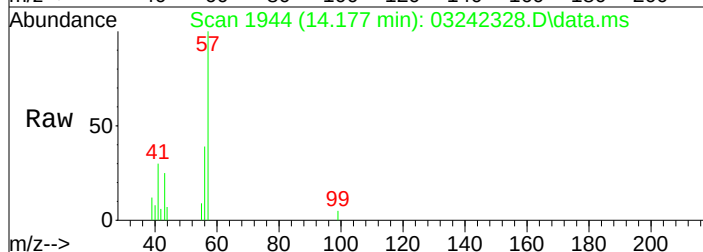
Tgt Ion:	130	Resp:	8732
Ion Ratio		Lower	Upper
130	100		
132	97.2	78.7	118.7





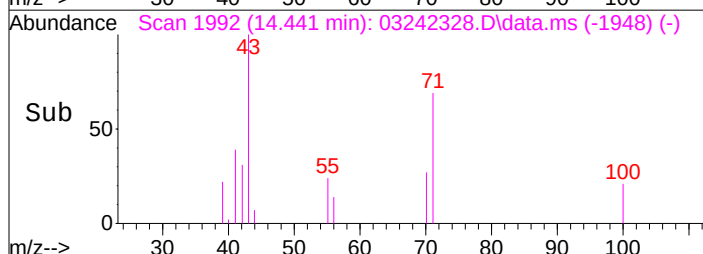
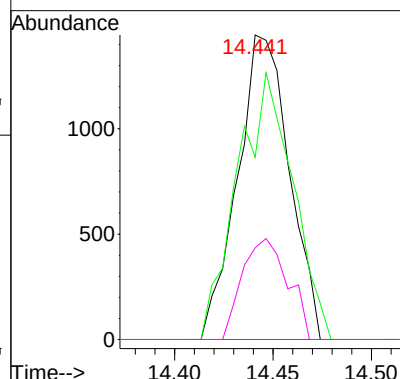
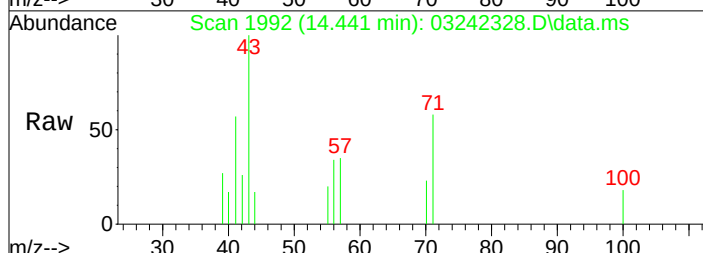
#49
2,2,4-Trimethylpentane (Isooctane)
Concen: 0.08 ng
RT: 14.18 min Scan# 1944
Delta R.T. -0.011 min
Lab File: 03242328.D
Acq: 24 Mar 2023 21:58

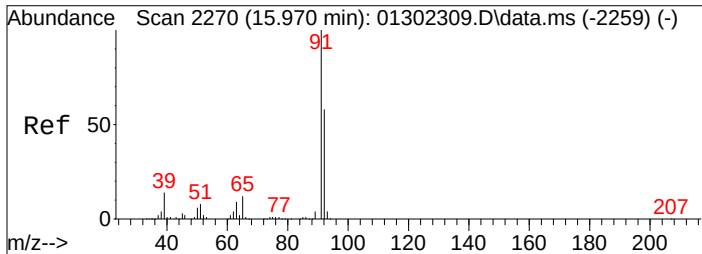
Tgt Ion: 57 Resp: 6974
Ion Ratio Lower Upper
57 100
41 37.7 5.8 45.8



#51
n-Heptane
Concen: 0.14 ng
RT: 14.44 min Scan# 1992
Delta R.T. -0.011 min
Lab File: 03242328.D
Acq: 24 Mar 2023 21:58

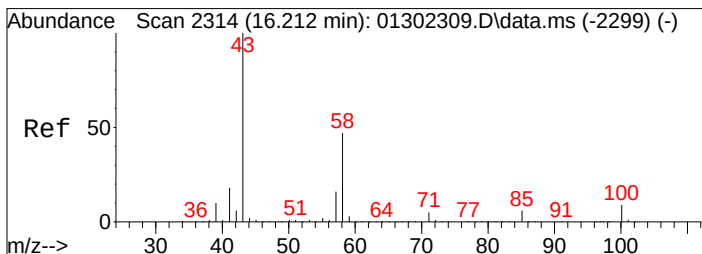
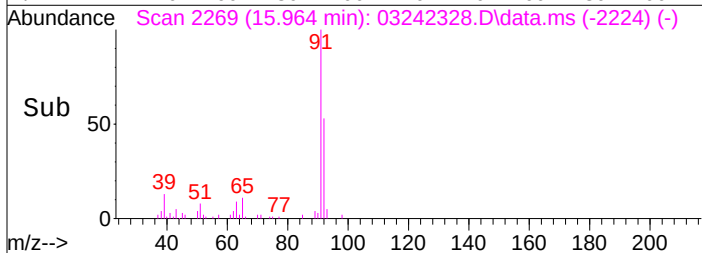
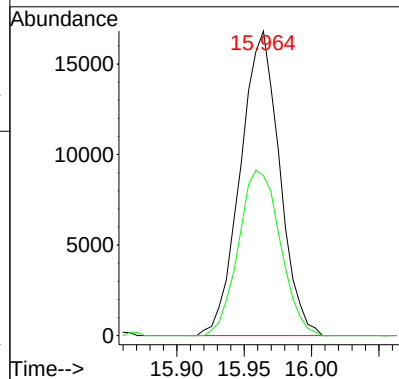
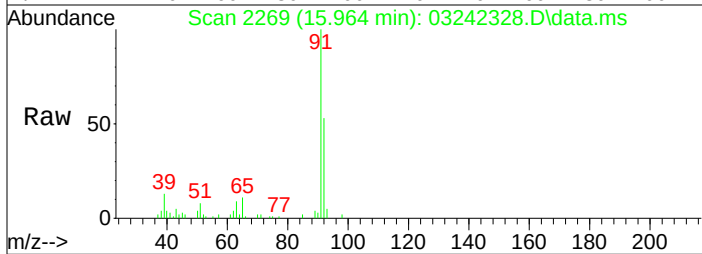
Tgt Ion: 71 Resp: 2641
Ion Ratio Lower Upper
71 100
57 93.8 81.4 121.4
100 29.2 11.8 51.8





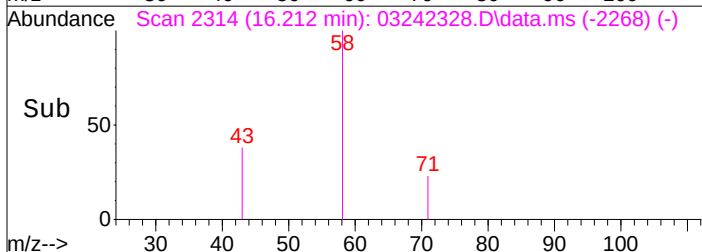
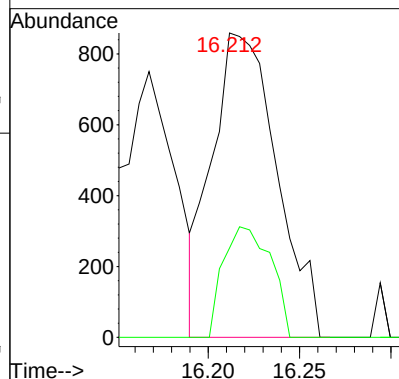
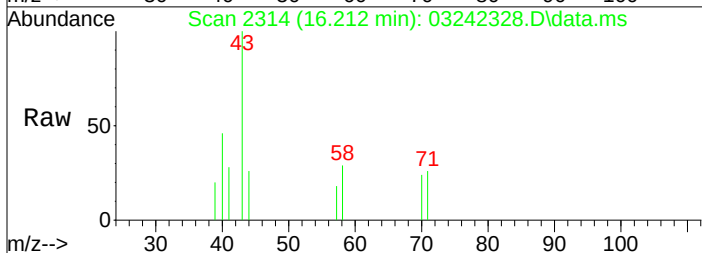
#58
Toluene
Concen: 0.43 ng
RT: 15.96 min Scan# 2269
Delta R.T. -0.005 min
Lab File: 03242328.D
Acq: 24 Mar 2023 21:58

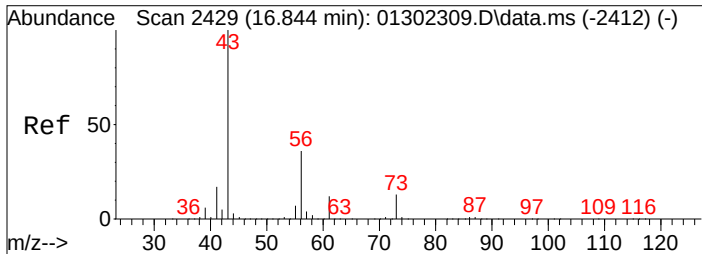
Tgt Ion: 91 Resp: 34036
Ion Ratio Lower Upper
91 100
92 57.9 39.8 79.8



#59
2-Hexanone
Concen: 0.05 ng
RT: 16.21 min Scan# 2314
Delta R.T. 0.000 min
Lab File: 03242328.D
Acq: 24 Mar 2023 21:58

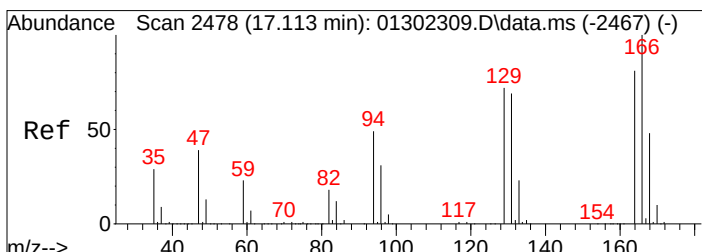
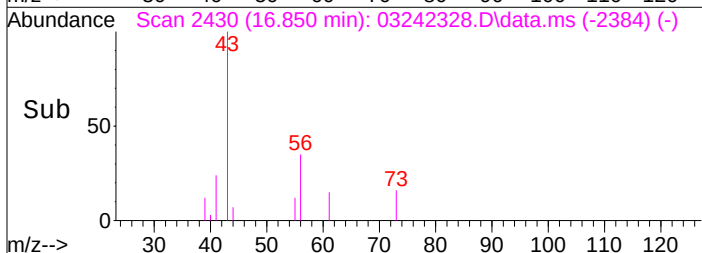
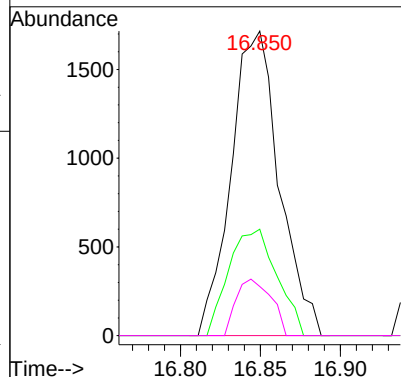
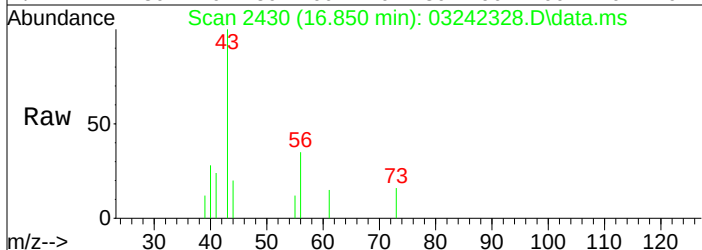
Tgt Ion: 43 Resp: 2126
Ion Ratio Lower Upper
43 100
58 26.6 32.3 72.3#





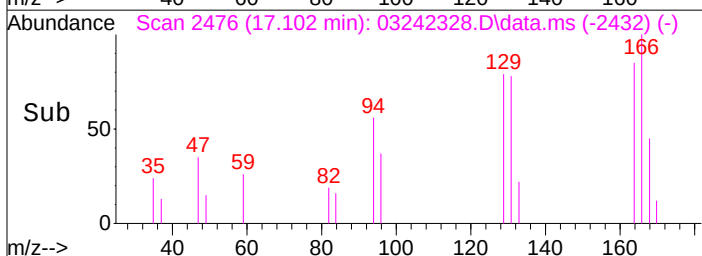
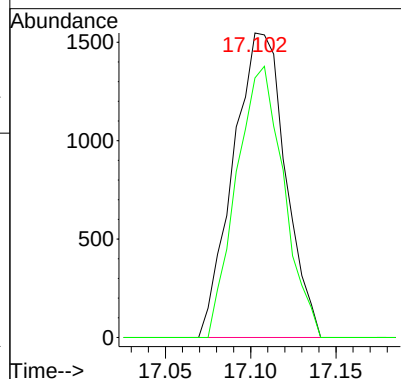
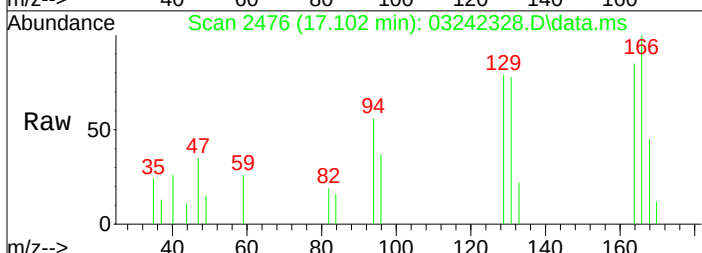
#62
 n-Butyl Acetate
 Concen: 0.08 ng
 RT: 16.85 min Scan# 2430
 Delta R.T. 0.006 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 21:58

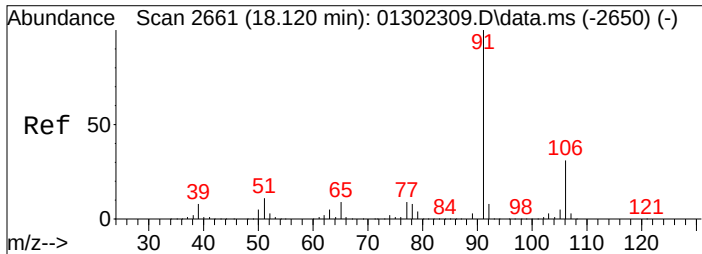
Tgt Ion:	43	Resp:	3600
Ion Ratio		Lower	Upper
43	100		
56	34.9	21.0	61.0
73	13.4	0.0	34.3



#64
 Tetrachloroethene
 Concen: 0.17 ng
 RT: 17.10 min Scan# 2476
 Delta R.T. -0.011 min
 Lab File: 03242328.D
 Acq: 24 Mar 2023 21:58

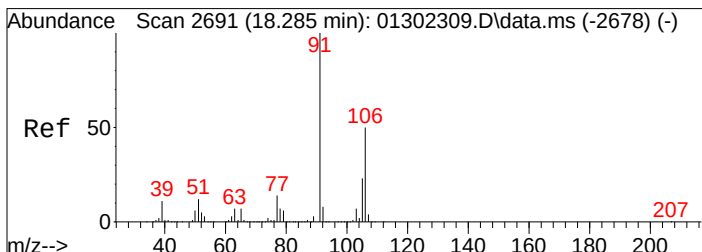
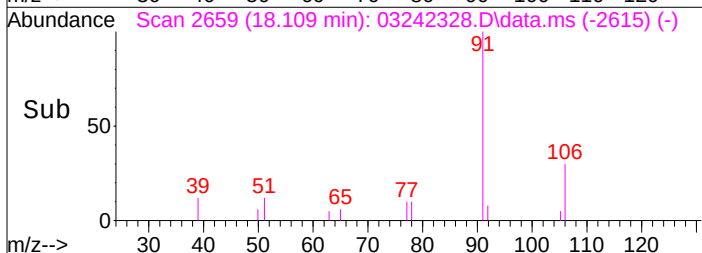
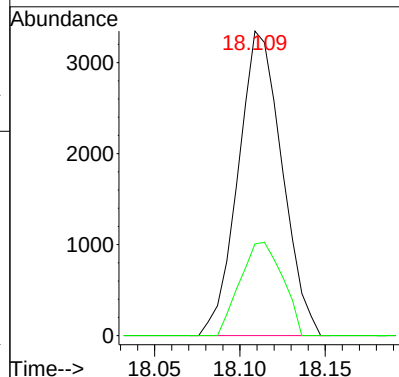
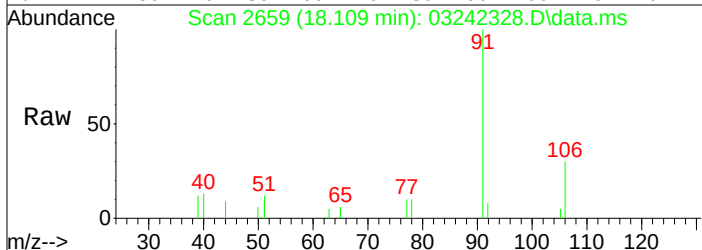
Tgt Ion:	166	Resp:	3297
Ion Ratio		Lower	Upper
166	100		
164	80.6	58.7	98.7





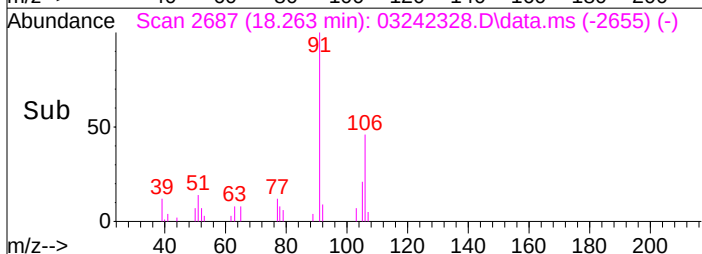
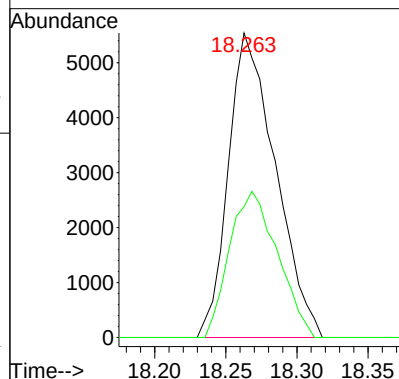
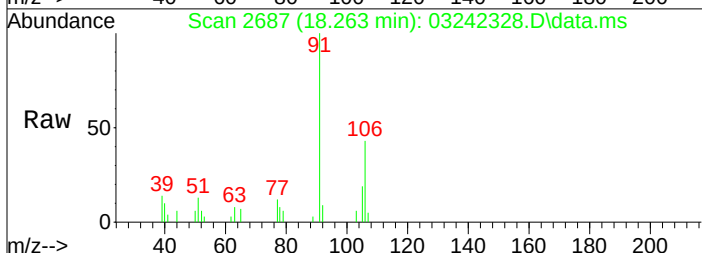
#66
Ethylbenzene
Concen: 0.07 ng
RT: 18.11 min Scan# 2659
Delta R.T. -0.011 min
Lab File: 03242328.D
Acq: 24 Mar 2023 21:58

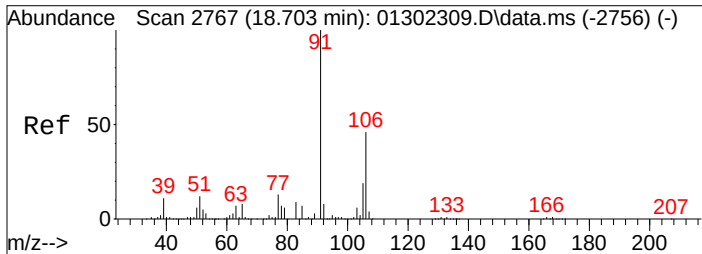
Tgt Ion: 91 Resp: 5987
Ion Ratio Lower Upper
91 100
106 29.7 11.5 51.5



#67
m- & p-Xylenes
Concen: 0.18 ng
RT: 18.26 min Scan# 2687
Delta R.T. -0.022 min
Lab File: 03242328.D
Acq: 24 Mar 2023 21:58

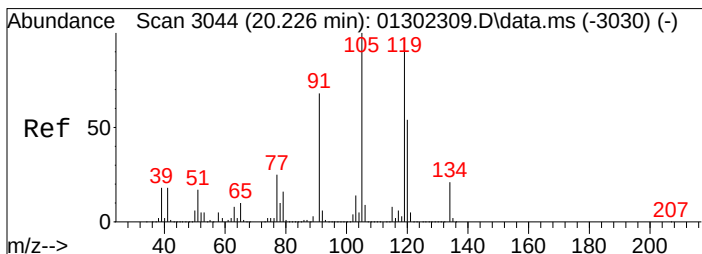
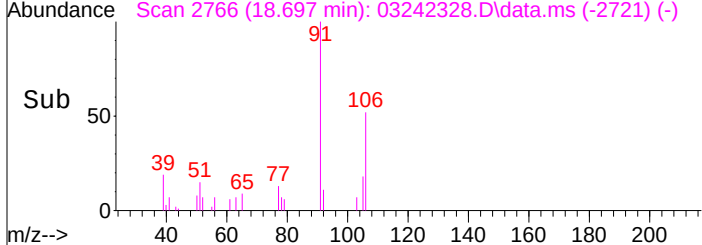
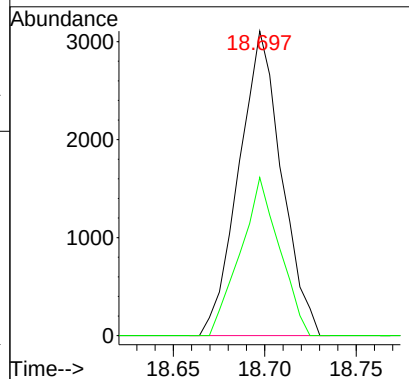
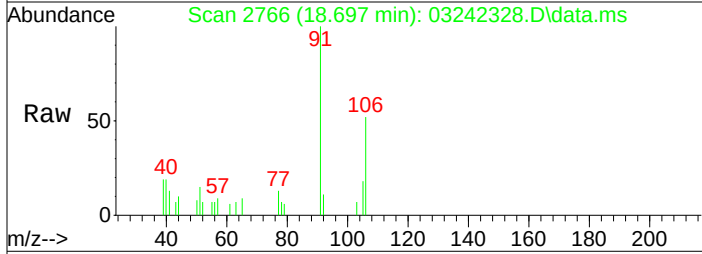
Tgt Ion: 91 Resp: 12739
Ion Ratio Lower Upper
91 100
106 49.0 29.2 69.2





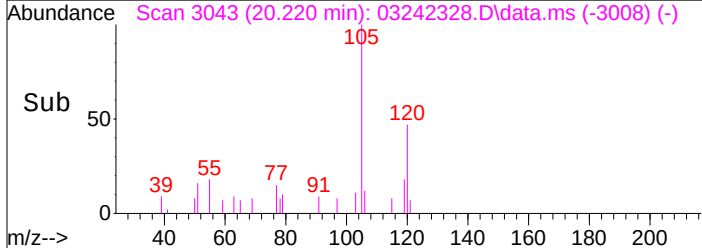
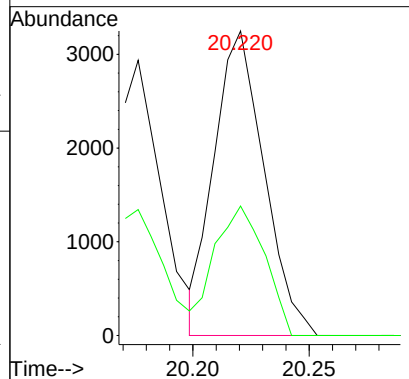
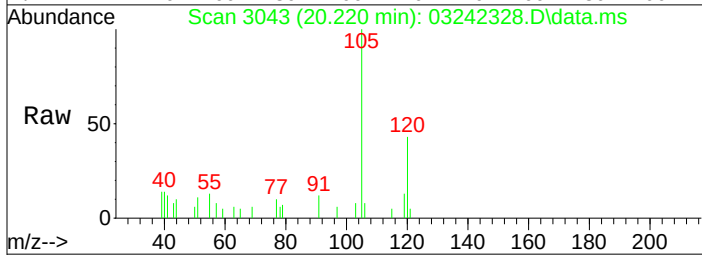
#70
o-Xylene
Concen: 0.07 ng
RT: 18.70 min Scan# 2766
Delta R.T. -0.005 min
Lab File: 03242328.D
Acq: 24 Mar 2023 21:58

Tgt Ion: 91 Resp: 5053
Ion Ratio Lower Upper
91 100
106 47.6 27.3 67.3



#82
1,2,4-Trimethylbenzene
Concen: 0.07 ng
RT: 20.22 min Scan# 3043
Delta R.T. -0.005 min
Lab File: 03242328.D
Acq: 24 Mar 2023 21:58

Tgt Ion: 105 Resp: 4864
Ion Ratio Lower Upper
105 100
120 42.8 37.2 77.2



Data File : I:\MS16\DATA\2023_03\24\03242328.D
 Acq On : 24 Mar 2023 21:58
 Sample : P2301250-050 (1000mL)
 Misc : S35-01312301

Vial: 12
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 09:52:11 2023
 Quant Method : I:\MS16\METHODS\C16122022.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Dec 21 05:02:49 2022
 Response via : Initial Calibration
 DataAcq Meth:T015B.M

407 3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.28	130	200114	12.500	ng	-0.02
16) 1,4-Difluorobenzene (C_2)	13.41	114	913191	12.500	ng	-0.01
19) Chlorobenzene-d5 (C_3)	17.72	54	204407	12.500	ng	0.00

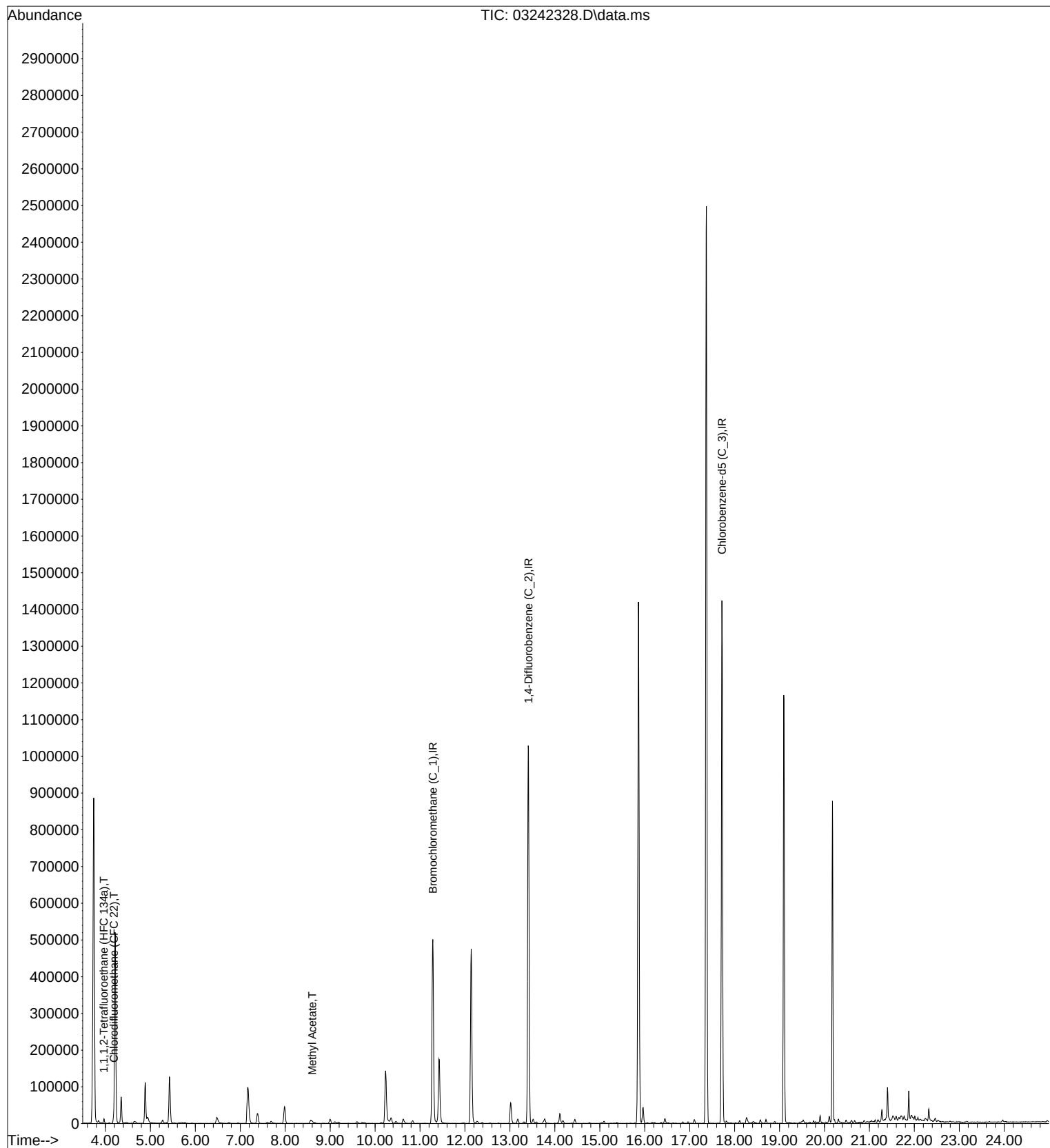
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.85	85	634	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.97	83	5862	0.370	ng	86
4) 1,1-Difluoroethane	4.08	65	572	N.D.		
5) Chlorodifluoromethane ...	4.19	67	2578	0.521	ng	91
6) 1-Chloro-1,1-Difluoroe...	4.65	65	2513	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	8.60	43	9837	0.198	ng	# 96
12) 2-Methylpentane	0.00	71	0	N.D.	d	
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	13.17	84	1172	N.D.		
17) 2,3-Dimethylpentane	13.59	56	1765	N.D.		
18) Dibromomethane	13.83	174	193	N.D.		
20) Methyl Cyclohexane	15.10	55	1934	N.D.		
21) 1,3-Dichloropropane	0.00	76	0	N.D.	d	
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	0.00	91	0	N.D.		
24) 1,2,3-Trichloropropane	0.00	75	0	N.D.		
25) Bromobenzene	19.22	77	118	N.D.		
26) 2-Chlorotoluene	19.67	91	1813	N.D.		
27) 4-Chlorotoluene	19.67	91	1813	N.D.		
28) Indane	20.78	117	527	N.D.		
29) Indene	20.77	115	60	N.D.		
30) 1,2,4,5-Tetramethylben...	21.61	119	1241	N.D.		
31) 1,2,3,4-Tetramethylben...	21.65	119	2149	N.D.		
32) 1,2,3,5-Tetramethylben...	21.99	119	1136	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\24\03242328.D
Acq On : 24 Mar 2023 21:58
Sample : P2301250-050 (1000mL)
Misc : S35-01312301

Vial: 12
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 09:52:11 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG34-1

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-051

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02261

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.21 Final Pressure (psig): 4.93

Container Dilution Factor: 1.57

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.8	0.83	0.14	0.57	0.17	0.028	
74-87-3	Chloromethane	0.32	0.33	0.14	0.16	0.16	0.065	J
75-01-4	Vinyl Chloride	ND	0.17	0.089	ND	0.068	0.035	
74-83-9	Bromomethane	ND	0.33	0.12	ND	0.085	0.030	
75-00-3	Chloroethane	ND	0.33	0.10	ND	0.12	0.039	
67-64-1	Acetone	5.1	8.3	1.9	2.1	3.5	0.79	J
75-69-4	Trichlorofluoromethane	1.4	0.82	0.13	0.24	0.15	0.023	
75-35-4	1,1-Dichloroethene	ND	0.17	0.12	ND	0.044	0.029	
75-09-2	Methylene Chloride	0.42	0.83	0.24	0.12	0.24	0.068	J
76-13-1	Trichlorotrifluoroethane	0.52	0.85	0.12	0.068	0.11	0.016	J
75-15-0	Carbon Disulfide	ND	1.7	0.25	ND	0.54	0.081	
156-60-5	trans-1,2-Dichloroethene	ND	0.17	0.12	ND	0.044	0.029	
75-34-3	1,1-Dichloroethane	ND	0.17	0.12	ND	0.043	0.030	
1634-04-4	Methyl tert-Butyl Ether	ND	0.85	0.099	ND	0.24	0.027	
78-93-3	2-Butanone (MEK)	0.76	1.6	0.17	0.26	0.55	0.059	J
156-59-2	cis-1,2-Dichloroethene	ND	0.17	0.12	ND	0.044	0.030	
67-66-3	Chloroform	ND	0.17	0.11	ND	0.035	0.023	
107-06-2	1,2-Dichloroethane	ND	0.17	0.093	ND	0.043	0.023	
71-55-6	1,1,1-Trichloroethane	ND	0.17	0.10	ND	0.032	0.019	
71-43-2	Benzene	1.5	0.17	0.12	0.46	0.054	0.038	
56-23-5	Carbon Tetrachloride	0.45	0.17	0.12	0.071	0.027	0.018	
110-82-7	Cyclohexane	0.40	1.6	0.24	0.12	0.48	0.068	J
78-87-5	1,2-Dichloropropane	ND	0.17	0.10	ND	0.037	0.022	
75-27-4	Bromodichloromethane	ND	0.17	0.12	ND	0.026	0.018	
79-01-6	Trichloroethene	ND	0.17	0.11	ND	0.032	0.021	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG34-1

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-051

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02261

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.21 Final Pressure (psig): 4.93

Container Dilution Factor: 1.57

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.85	0.13	ND	0.19	0.029	
108-10-1	4-Methyl-2-pentanone	ND	1.7	0.11	ND	0.42	0.028	
10061-02-6	trans-1,3-Dichloropropene	ND	0.80	0.17	ND	0.18	0.038	
79-00-5	1,1,2-Trichloroethane	ND	0.17	0.085	ND	0.032	0.016	
108-88-3	Toluene	5.6	0.83	0.10	1.5	0.22	0.027	
591-78-6	2-Hexanone	ND	1.7	0.10	ND	0.42	0.025	
124-48-1	Dibromochloromethane	ND	0.17	0.11	ND	0.020	0.013	
106-93-4	1,2-Dibromoethane	ND	0.17	0.097	ND	0.022	0.013	
127-18-4	Tetrachloroethene	ND	0.17	0.11	ND	0.025	0.016	
108-90-7	Chlorobenzene	ND	0.83	0.11	ND	0.18	0.024	
100-41-4	Ethylbenzene	0.15	0.83	0.12	0.035	0.19	0.027	J
179601-23-1	m,p-Xylenes	0.31	1.7	0.22	0.072	0.40	0.051	J
75-25-2	Bromoform	ND	0.85	0.17	ND	0.082	0.017	
100-42-5	Styrene	0.14	0.83	0.14	0.032	0.20	0.032	J
95-47-6	o-Xylene	0.13	0.83	0.12	0.029	0.19	0.028	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.17	0.12	ND	0.025	0.017	
98-82-8	Cumene	ND	0.85	0.12	ND	0.17	0.025	
541-73-1	1,3-Dichlorobenzene	ND	0.83	0.13	ND	0.14	0.021	
106-46-7	1,4-Dichlorobenzene	ND	0.83	0.13	ND	0.14	0.021	
95-50-1	1,2-Dichlorobenzene	ND	0.85	0.12	ND	0.14	0.021	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.7	0.16	ND	0.18	0.016	
120-82-1	1,2,4-Trichlorobenzene	ND	1.7	0.20	ND	0.23	0.028	
79-20-9	Methyl Acetate	0.54	0.79	0.38	0.18	0.26	0.12	J, X
108-87-2	Methylcyclohexane	ND	0.79	0.41	ND	0.20	0.10	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS16\DATA\2023_03\24\03242329.D
 Acq On : 24 Mar 2023 22:32
 Sample : P2301250-051 (1000mL)
 Misc : S35-01312301

Vial: 13
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 09:20:50 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:TO15B.M

3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.30	130	198966	12.500	ng	0.00
37) 1,4-Difluorobenzene (IS2)	13.42	114	916719	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	17.72	54	202501	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.15	65	360096	13.609	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	108.88%	
57) Toluene-d8 (SS2)	15.87	98	1051615	11.862	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	94.88%	
73) Bromofluorobenzene (SS3)	19.10	174	316143	11.433	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	91.44%	

Target Compounds

						Qvalue
2) Propene	4.18	42	8433	0.314	ng	# 1
3) Dichlorodifluoromethan...	4.34	85	53231	1.790	ng	100
4) Chloromethane	4.63	50	5727	0.206	ng	93
5) 1,2-Dichloro-1,1,2,2-t...	4.93	135	1270	0.076	ng	81
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.35	54	463	N.D.		
8) Bromomethane	5.78	94	439	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.48	45	66646	3.481	ng	100
11) Acetonitrile	6.75	41	3594	0.075	ng	93
12) Acrolein	6.93	56	2225	0.164	ng	98
13) Acetone	7.15	58	47610	3.251	ng	# 75
14) Trichlorofluoromethane	7.38	101	23898	0.871	ng	98
15) 2-Propanol (Isopropanol)	7.68	45	26078	0.511	ng	89
16) Acrylonitrile	0.00	53	0	N.D.	d	
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	8.57	84	4365	0.270	ng	94
20) 3-Chloro-1-propene (Al...	8.68	41	142	N.D.		
21) Trichlorotrifluoroethane	9.00	151	4554	0.333	ng	93
22) Carbon Disulfide	8.84	76	1466	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	10.26	73	1358	N.D.		
26) Vinyl Acetate	10.36	86	8593	2.626	ng	# 93
27) 2-Butanone (MEK)	10.63	72	5101	0.481	ng	97
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	11.42	61	1039551	149.715	ng	96
31) n-Hexane	11.41	57	6321	0.182	ng	# 61
32) Chloroform	11.46	83	1568	0.059	ng	100
34) Tetrahydrofuran (THF)	11.93	72	106	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	12.26	62	1095	0.051	ng	92
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.02	78	60454	0.936	ng	97
42) Carbon Tetrachloride	13.18	117	5961	0.284	ng	94
43) Cyclohexane	13.31	84	6950	0.255	ng	95
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	13.87	63	112	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	14.11	130	613	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	14.18	57	6361	0.073	ng	61
50) Methyl Methacrylate	14.34	100	165	N.D.		

Data File : I:\MS16\DATA\2023_03\24\03242329.D
 Acq On : 24 Mar 2023 22:32
 Sample : P2301250-051 (1000mL)
 Misc : S35-01312301

Vial: 13
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 09:20:50 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

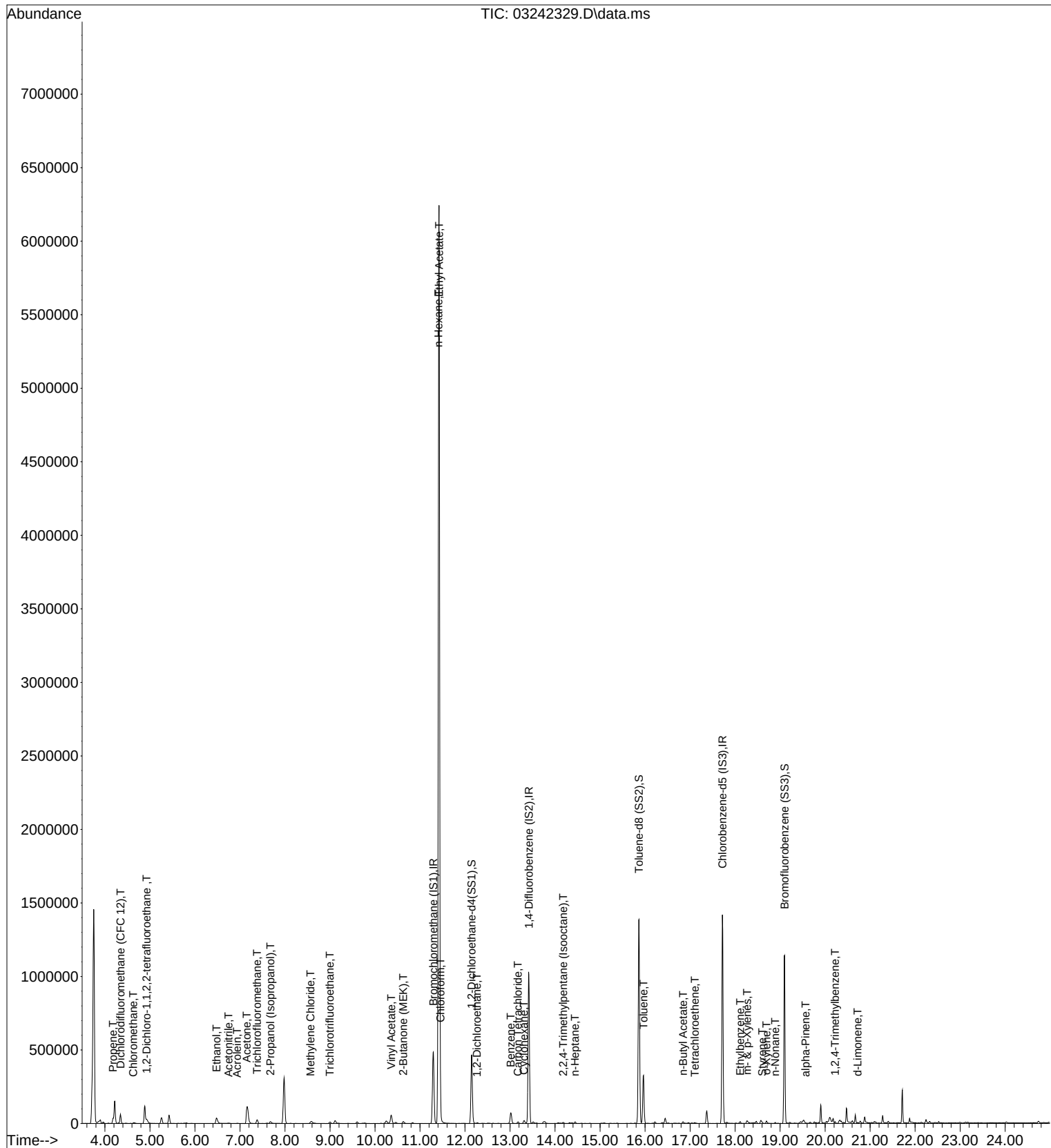
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.44	71	2654	0.140	ng	96
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	15.04	58	450	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.96	91	275441	3.547	ng	98
59) 2-Hexanone	0.00	43	0	N.D.	d	
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.84	43	10785	0.230	ng	96
63) n-Octane	16.97	57	971	N.D.		
64) Tetrachloroethene	17.11	166	1271	0.064	ng	87
65) Chlorobenzene	17.76	112	499	N.D.		
66) Ethylbenzene	18.11	91	8502	0.097	ng	100
67) m- & p-Xylenes	18.27	91	13896	0.200	ng	97
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.60	104	4310	0.088	ng	98
70) o-Xylene	18.70	91	5430	0.080	ng	99
71) n-Nonane	18.89	43	3134	0.064	ng	82
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	19.23	105	945	N.D.		
75) alpha-Pinene	19.57	93	1547	0.070	ng	# 1
76) n-Propylbenzene	19.67	91	1934	N.D.		
77) 3-Ethyltoluene	20.22	105	4598	No Calib	#	
78) 4-Ethyltoluene	19.80	105	1496	N.D.		
79) 1,3,5-Trimethylbenzene	19.86	105	1412	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.22	105	4598	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.22	105	4598	0.066	ng	79
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	20.41	146	273	N.D.		
86) 1,4-Dichlorobenzene	20.41	146	273	N.D.		
87) sec-Butylbenzene	20.46	105	299	N.D.		
88) 4-Isopropyltoluene (p-...	20.59	119	2318	N.D.		
89) 1,2,3-Trimethylbenzene	20.22	105	4598	No Calib	#	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	20.72	68	1287	0.065	ng	96
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	21.28	58	468	No Calib	#	
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	22.33	128	2382	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	18.16	55	232	No Calib	#	
99) tert-Butylbenzene	20.21	119	587	N.D.		
100) n-Butylbenzene	20.96	91	1254	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\24\03242329.D
Acq On : 24 Mar 2023 22:32
Sample : P2301250-051 (1000mL)
Misc : S35-01312301

Vial: 13
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 09:20:50 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



Data File : I:\MS16\DATA\2023_03\24\03242329.D
 Acq On : 24 Mar 2023 22:32
 Sample : P2301250-051 (1000mL)
 Misc : S35-01312301

Vial: 13
 Operator: WA
 Inst : GCMS-16

3/27/23

Quant Time: Mar 27 09:20:50 2023
 Quant Method : I:\MS16\METHODS\R16122022.M
 Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
 QLast Update : Wed Dec 21 03:06:38 2022
 Response via : Initial Calibration
 DataAcq Meth:T015B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.30	130	198966	12.500	ng	0.00
37) 1,4-Difluorobenzene (IS2)	13.42	114	916719	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	17.72	54	202501	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.15	65	360096	13.609	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	108.88%	
57) Toluene-d8 (SS2)	15.87	98	1051615	11.862	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	94.88%	
73) Bromofluorobenzene (SS3)	19.10	174	316143	11.433	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	91.44%	

Target Compounds

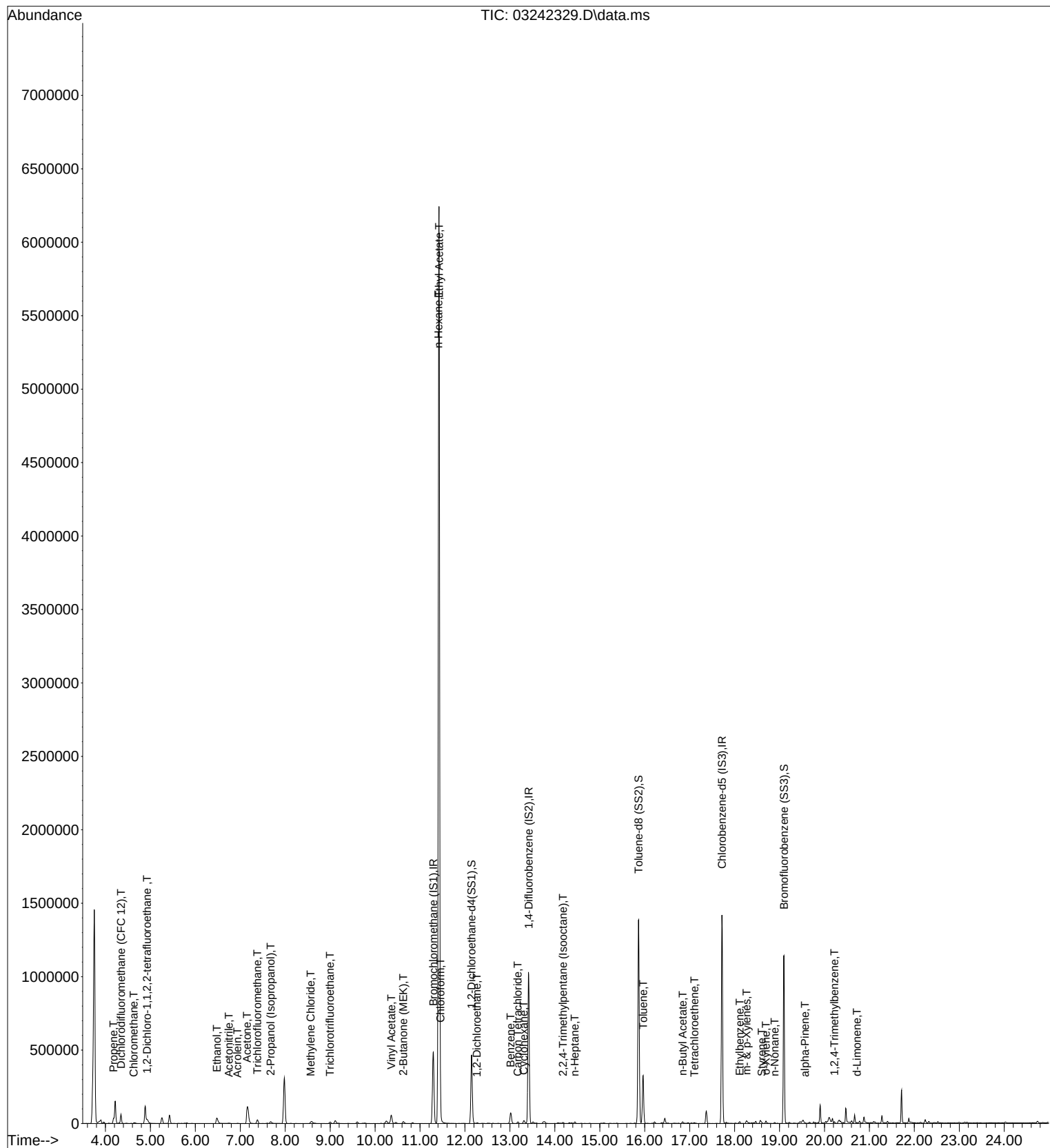
						Qvalue
2) Propene	4.18	42	8433	0.314	ng	# 1
3) Dichlorodifluoromethan...	4.34	85	53231	1.790	ng	100
4) Chloromethane	4.63	50	5727	0.206	ng	93
5) 1,2-Dichloro-1,1,2,2-t...	4.93	135	1270	0.076	ng	81
10) Ethanol	6.48	45	66646	3.481	ng	100
11) Acetonitrile	6.75	41	3594	0.075	ng	93
12) Acrolein	6.93	56	2225	0.164	ng	98
13) Acetone	7.15	58	47610	3.251	ng	# 75
14) Trichlorofluoromethane	7.38	101	23898	0.871	ng	98
15) 2-Propanol (Isopropanol)	7.68	45	26078	0.511	ng	89
19) Methylene Chloride	8.57	84	4365	0.270	ng	94
21) Trichlorotrifluoroethane	9.00	151	4554	0.333	ng	93
26) Vinyl Acetate	10.36	86	8593	2.626	ng	# 93
27) 2-Butanone (MEK)	10.63	72	5101	0.481	ng	97
30) Ethyl Acetate	11.42	61	1039551	149.715	ng	96
31) n-Hexane	11.41	57	6321	0.182	ng	# 61
32) Chloroform	11.46	83	1568	0.059	ng	100
36) 1,2-Dichloroethane	12.26	62	1095	0.051	ng	92
41) Benzene	13.02	78	60454	0.936	ng	97
42) Carbon Tetrachloride	13.18	117	5961	0.284	ng	94
43) Cyclohexane	13.31	84	6950	0.255	ng	95
49) 2,2,4-Trimethylpentane...	14.18	57	6361	0.073	ng	61
51) n-Heptane	14.44	71	2654	0.140	ng	96
58) Toluene	15.96	91	275441	3.547	ng	98
62) n-Butyl Acetate	16.84	43	10785	0.230	ng	96
64) Tetrachloroethene	17.11	166	1271	0.064	ng	87
66) Ethylbenzene	18.11	91	8502	0.097	ng	100
67) m- & p-Xylenes	18.27	91	13896	0.200	ng	97
69) Styrene	18.60	104	4310	0.088	ng	98
70) o-Xylene	18.70	91	5430	0.080	ng	99
71) n-Nonane	18.89	43	3134	0.064	ng	82
75) alpha-Pinene	19.57	93	1547	0.070	ng	# 1
82) 1,2,4-Trimethylbenzene	20.22	105	4598	0.066	ng	79
91) d-Limonene	20.72	68	1287	0.065	ng	96

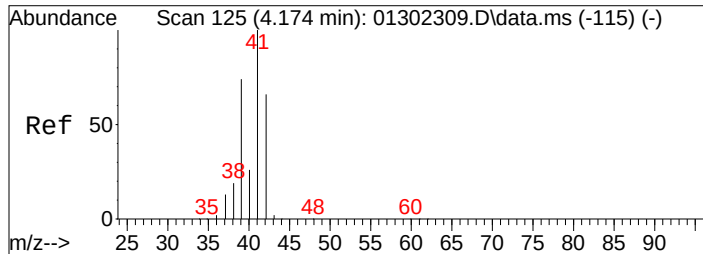
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS16\DATA\2023_03\24\03242329.D
Acq On : 24 Mar 2023 22:32
Sample : P2301250-051 (1000mL)
Misc : S35-01312301

Vial: 13
Operator: WA
Inst : GCMS-16

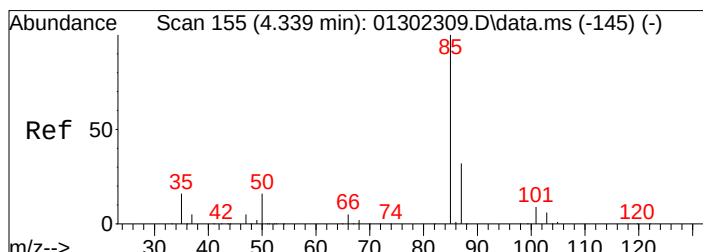
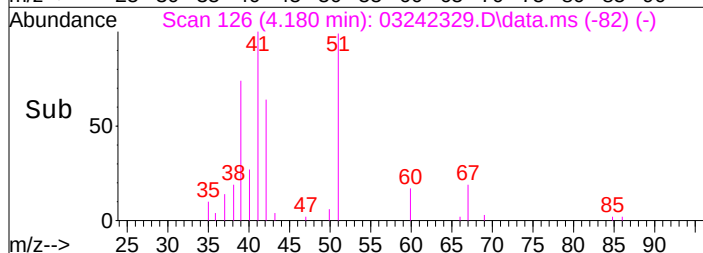
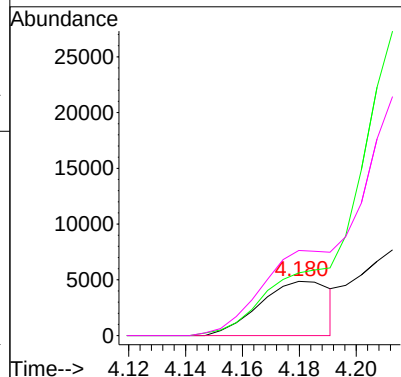
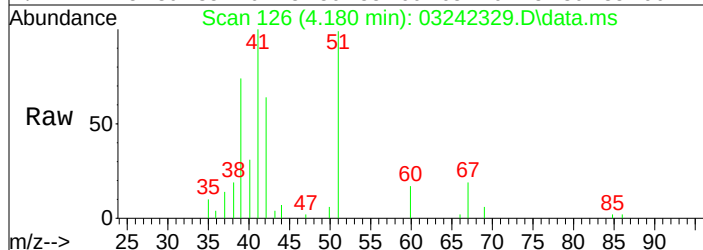
Quant Time: Mar 27 09:20:50 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M





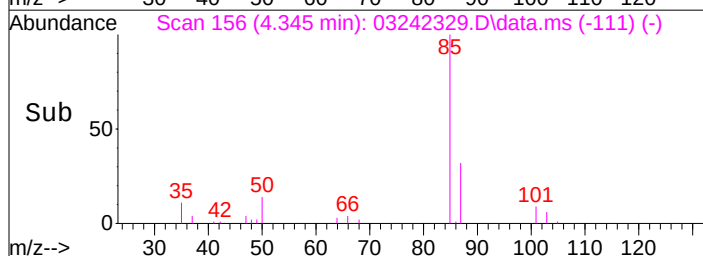
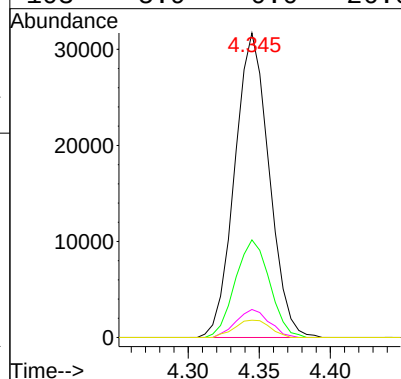
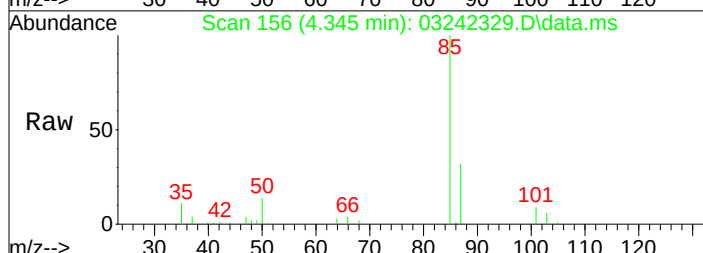
#2
 Propene
 Concen: 0.31 ng
 RT: 4.18 min Scan# 126
 Delta R.T. -0.011 min
 Lab File: 03242329.D
 Acq: 24 Mar 2023 22:32

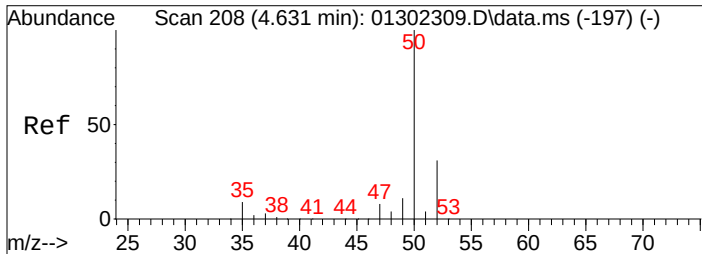
Tgt Ion:	42	Resp:	8433
Ion Ratio	Lower	Upper	
42	100		
39	0.0	87.4	127.4#
41	0.0	131.0	171.0#



#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.79 ng
 RT: 4.34 min Scan# 156
 Delta R.T. -0.005 min
 Lab File: 03242329.D
 Acq: 24 Mar 2023 22:32

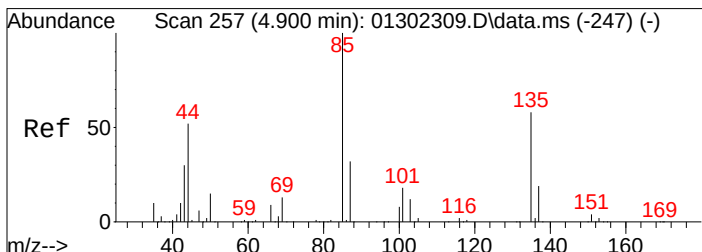
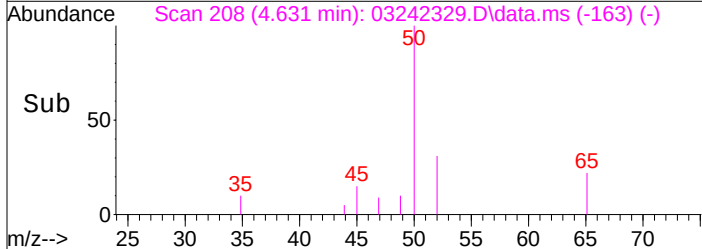
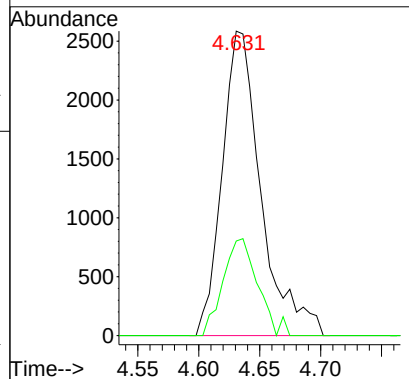
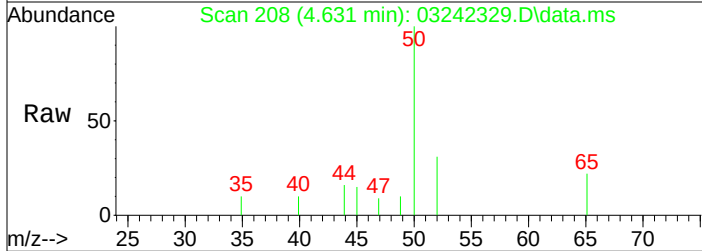
Tgt Ion:	85	Resp:	53231
Ion Ratio	Lower	Upper	
85	100		
87	32.1	12.1	52.1
101	8.9	0.0	29.3
103	5.9	0.0	26.0





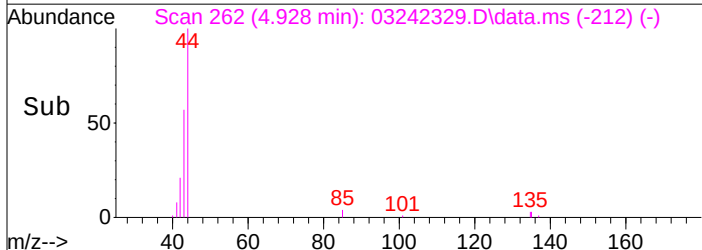
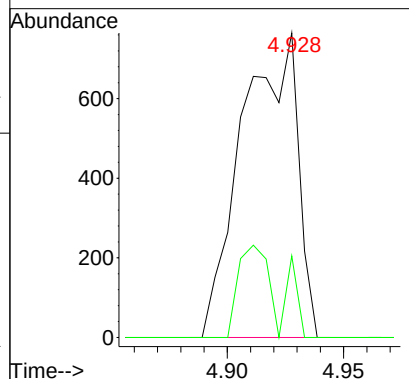
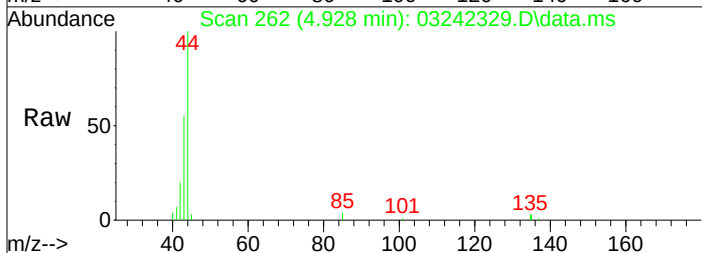
#4
 Chloromethane
 Concen: 0.21 ng
 RT: 4.63 min Scan# 208
 Delta R.T. -0.005 min
 Lab File: 03242329.D
 Acq: 24 Mar 2023 22:32

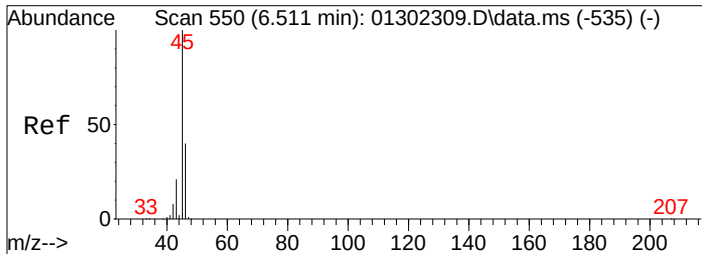
Tgt Ion:	50	Resp:	5727
Ion Ratio	Lower	Upper	
50	100		
52	28.4	12.2	52.2



#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.08 ng
 RT: 4.93 min Scan# 262
 Delta R.T. 0.022 min
 Lab File: 03242329.D
 Acq: 24 Mar 2023 22:32

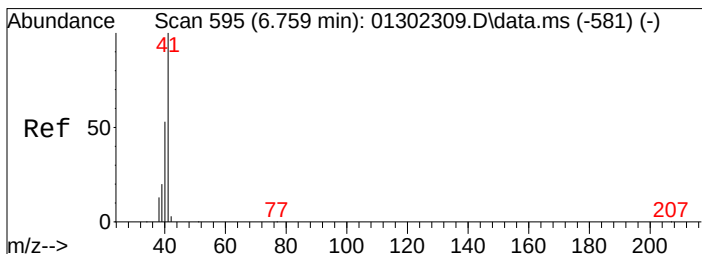
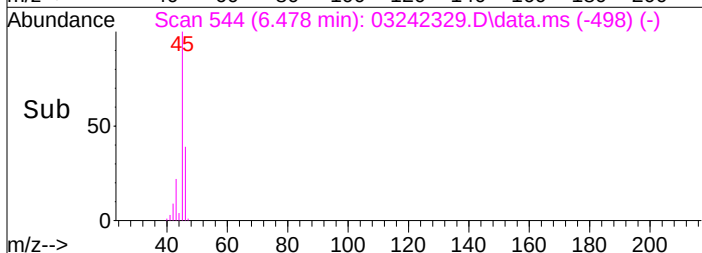
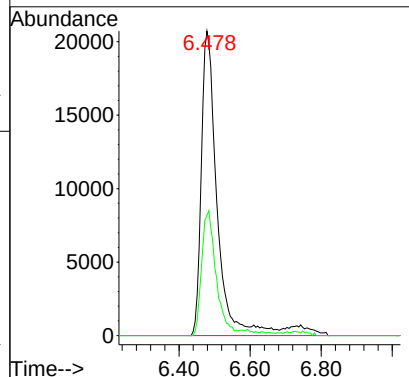
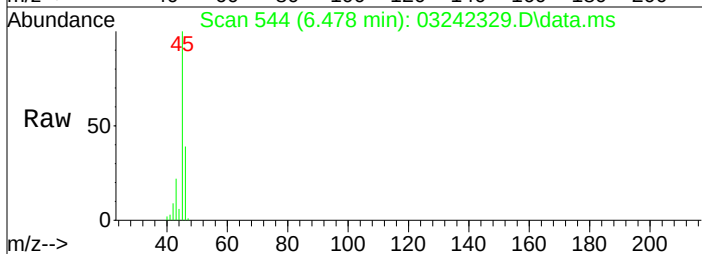
Tgt Ion:	135	Resp:	1270
Ion Ratio	Lower	Upper	
135	100		
137	21.7	12.0	52.0





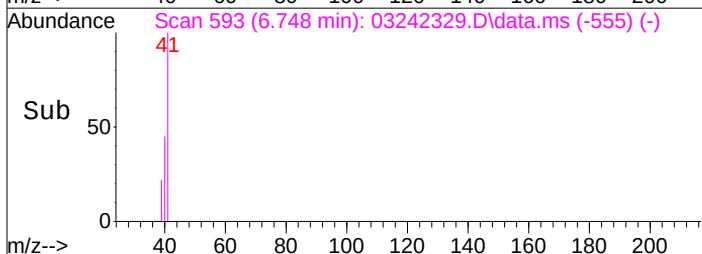
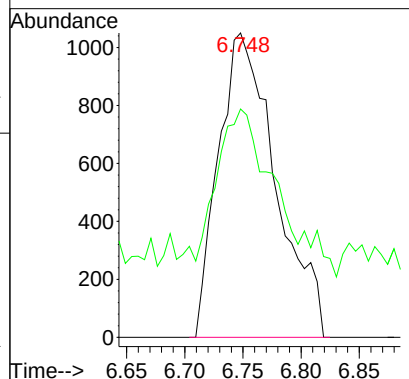
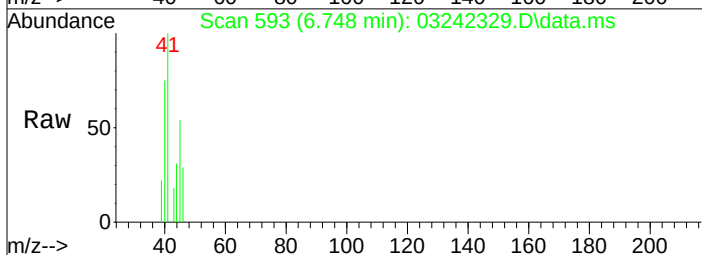
#10
Ethanol
Concen: 3.48 ng
RT: 6.48 min Scan# 544
Delta R.T. 0.000 min
Lab File: 03242329.D
Acq: 24 Mar 2023 22:32

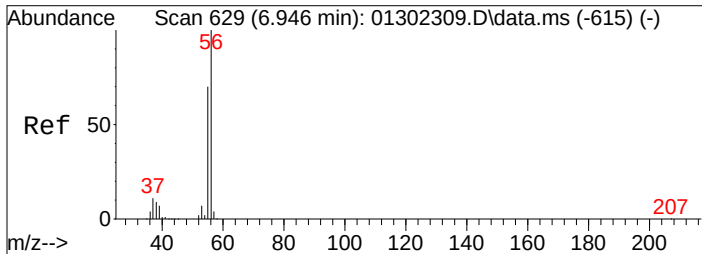
Tgt Ion: 45 Resp: 66646
Ion Ratio Lower Upper
45 100
46 40.4 20.5 60.5



#11
Acetonitrile
Concen: 0.07 ng
RT: 6.75 min Scan# 593
Delta R.T. 0.011 min
Lab File: 03242329.D
Acq: 24 Mar 2023 22:32

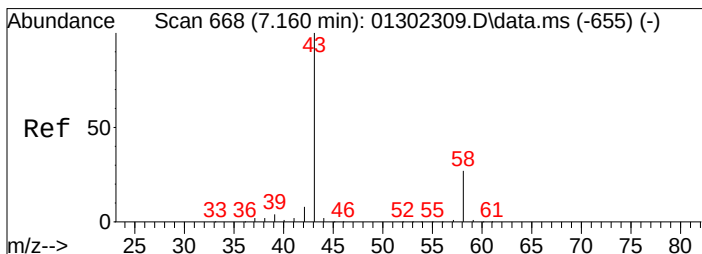
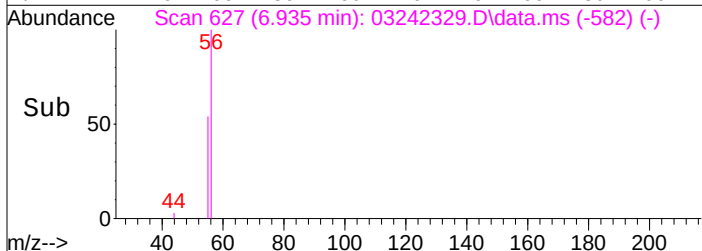
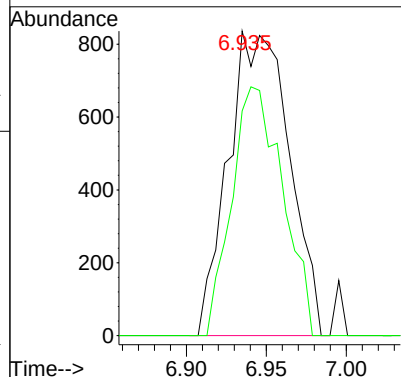
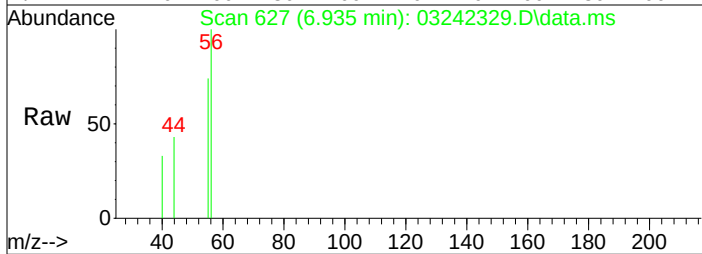
Tgt Ion: 41 Resp: 3594
Ion Ratio Lower Upper
41 100
40 57.3 32.4 72.4





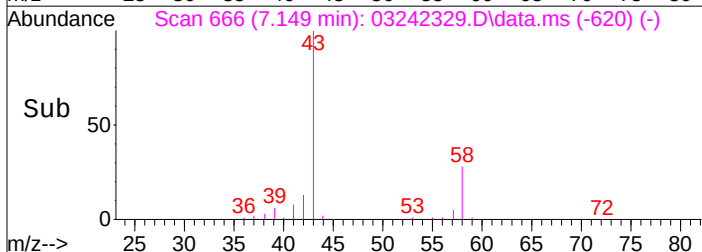
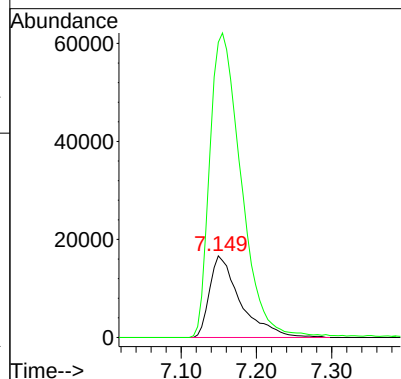
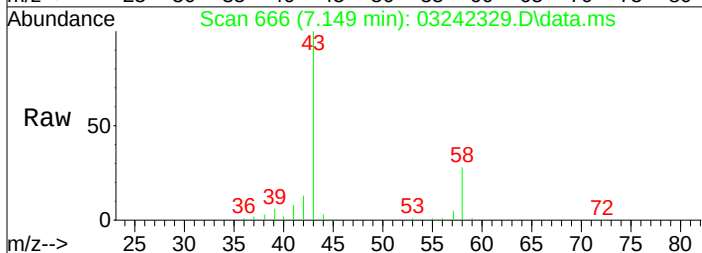
#12
Acrolein
Concen: 0.16 ng
RT: 6.93 min Scan# 627
Delta R.T. -0.000 min
Lab File: 03242329.D
Acq: 24 Mar 2023 22:32

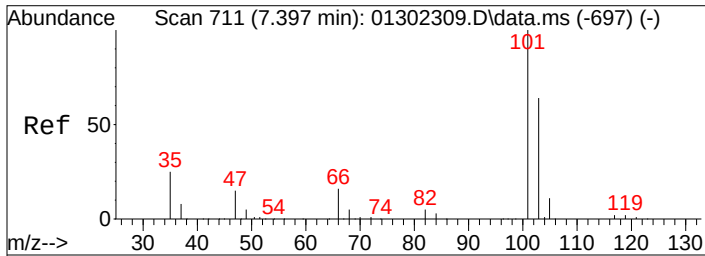
Tgt Ion: 56 Resp: 2225
Ion Ratio Lower Upper
56 100
55 68.0 49.9 89.9



#13
Acetone
Concen: 3.25 ng
RT: 7.15 min Scan# 666
Delta R.T. 0.005 min
Lab File: 03242329.D
Acq: 24 Mar 2023 22:32

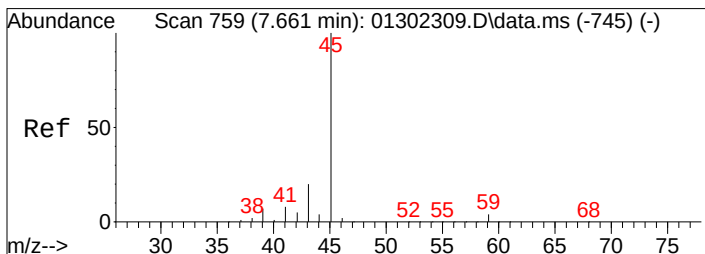
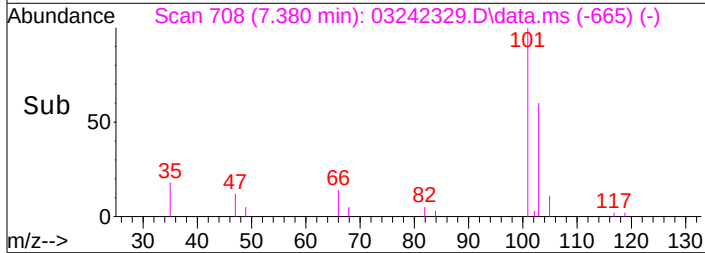
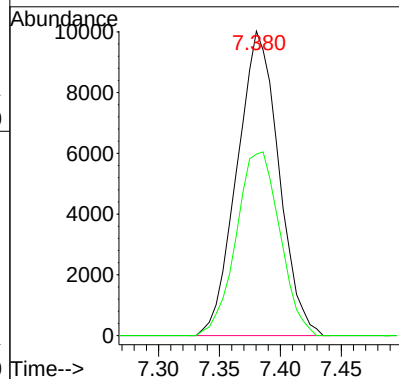
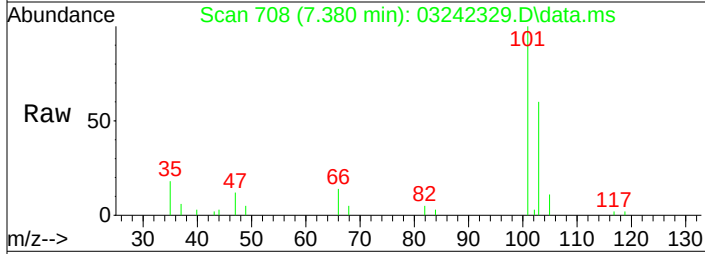
Tgt Ion: 58 Resp: 47610
Ion Ratio Lower Upper
58 100
43 380.7 298.5 358.5#





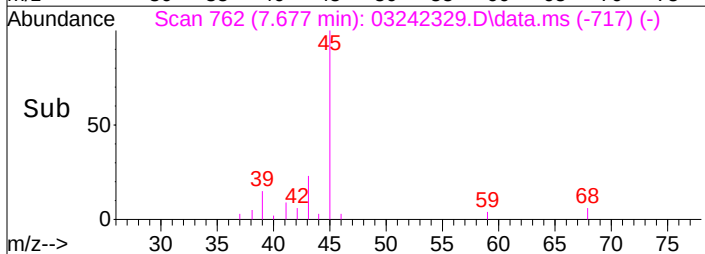
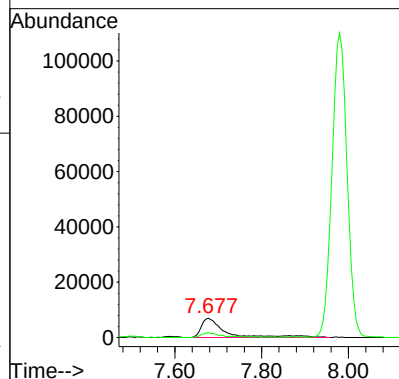
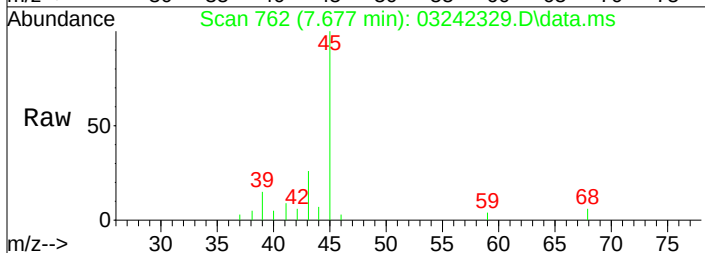
#14
 Trichlorofluoromethane
 Concen: 0.87 ng
 RT: 7.38 min Scan# 708
 Delta R.T. -0.016 min
 Lab File: 03242329.D
 Acq: 24 Mar 2023 22:32

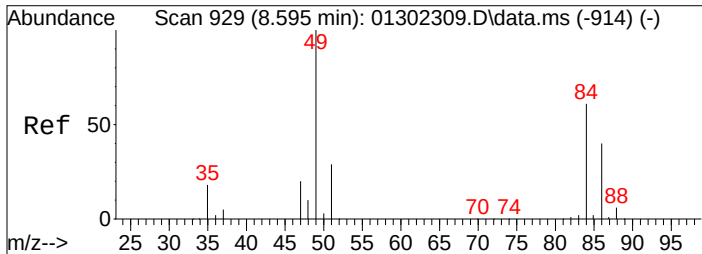
Tgt Ion: 101 Resp: 23898
 Ion Ratio Lower Upper
 101 100
 103 63.0 44.8 84.8



#15
 2-Propanol (Isopropanol)
 Concen: 0.51 ng
 RT: 7.68 min Scan# 762
 Delta R.T. -0.003 min
 Lab File: 03242329.D
 Acq: 24 Mar 2023 22:32

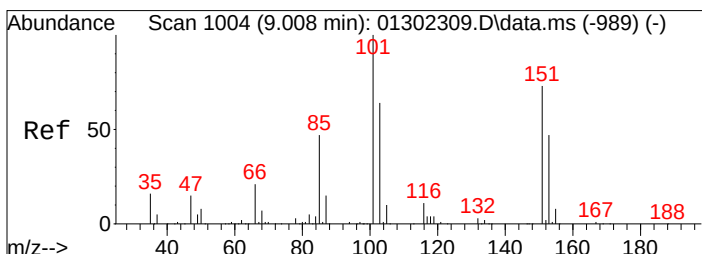
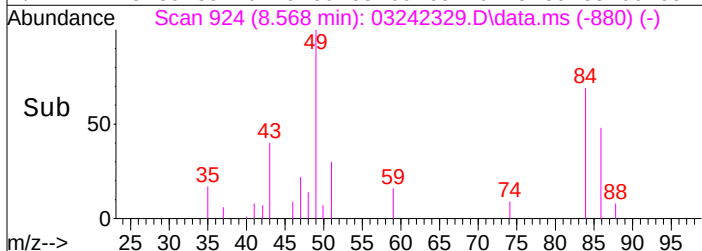
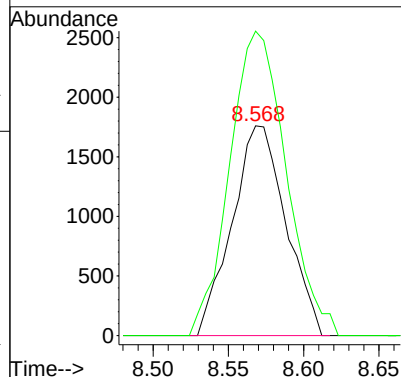
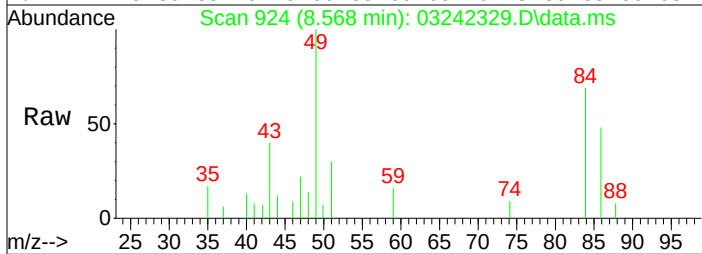
Tgt Ion: 45 Resp: 26078
 Ion Ratio Lower Upper
 45 100
 43 22.6 0.0 37.9





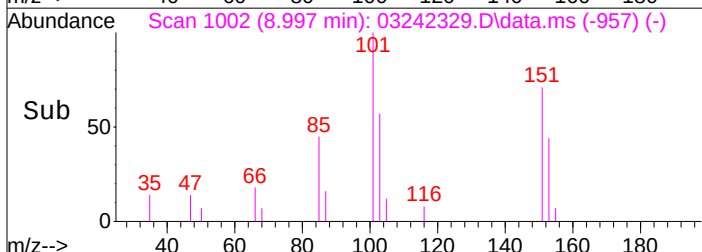
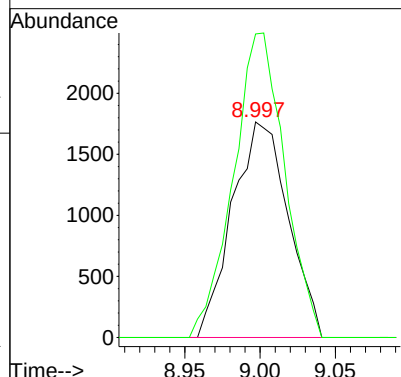
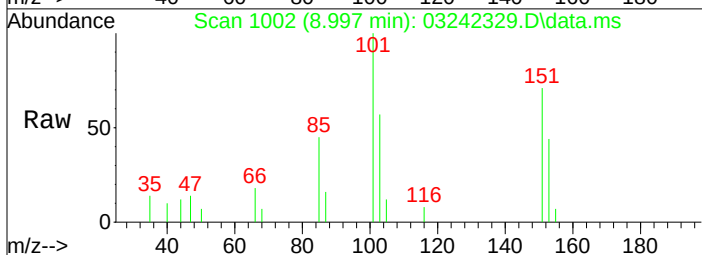
#19
Methylene Chloride
Concen: 0.27 ng
RT: 8.57 min Scan# 924
Delta R.T. -0.011 min
Lab File: 03242329.D
Acq: 24 Mar 2023 22:32

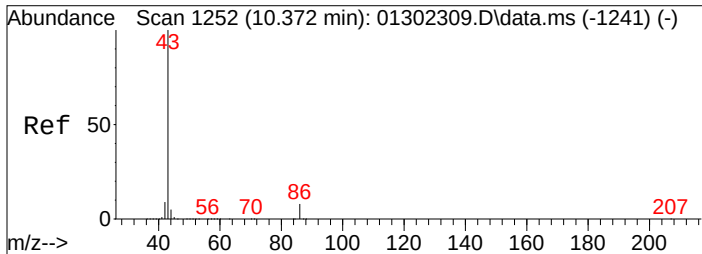
Tgt Ion: 84 Resp: 4365
Ion Ratio Lower Upper
84 100
49 152.7 135.0 185.0



#21
Trichlorotrifluoroethane
Concen: 0.33 ng
RT: 9.00 min Scan# 1002
Delta R.T. -0.005 min
Lab File: 03242329.D
Acq: 24 Mar 2023 22:32

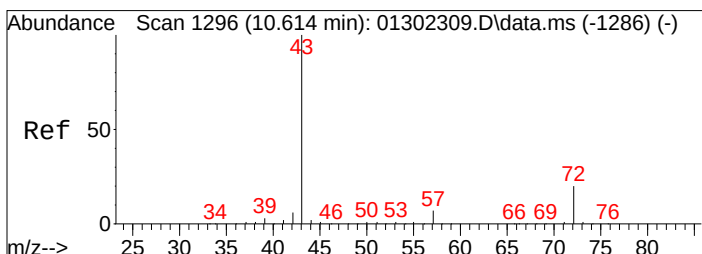
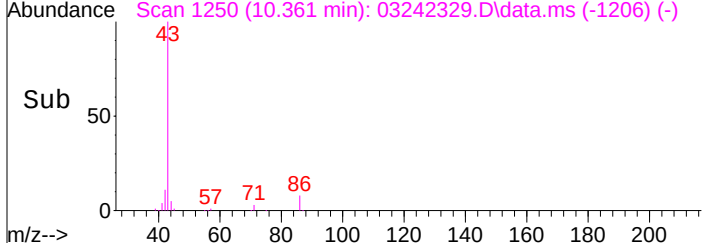
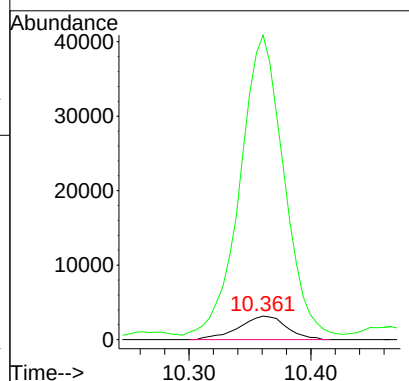
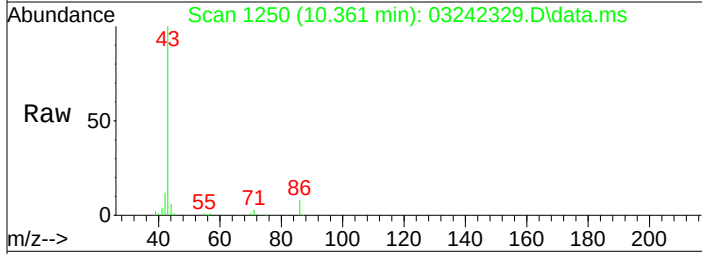
Tgt Ion: 151 Resp: 4554
Ion Ratio Lower Upper
151 100
101 129.7 101.5 141.5





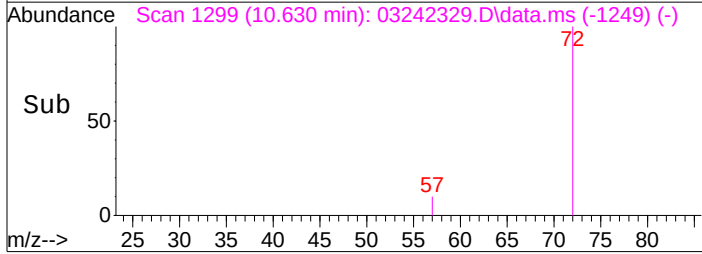
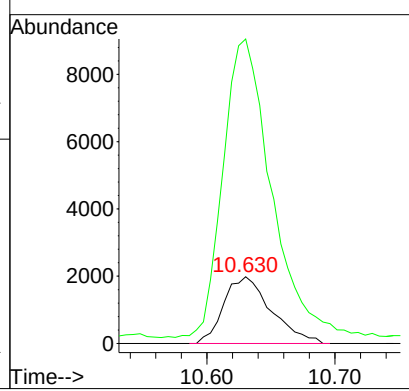
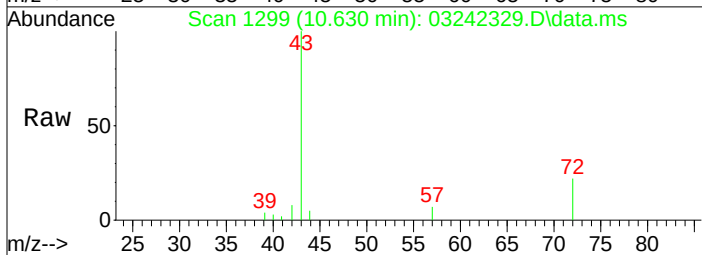
#26
 Vinyl Acetate
 Concen: 2.63 ng
 RT: 10.36 min Scan# 1250
 Delta R.T. -0.005 min
 Lab File: 03242329.D
 Acq: 24 Mar 2023 22:32

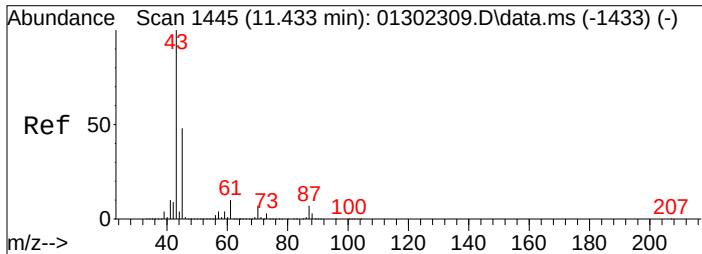
Tgt Ion: 86 Resp: 8593
 Ion Ratio Lower Upper
 86 100
 43 1203.7 1219.3 1259.3#



#27
 2-Butanone (MEK)
 Concen: 0.48 ng
 RT: 10.63 min Scan# 1299
 Delta R.T. 0.022 min
 Lab File: 03242329.D
 Acq: 24 Mar 2023 22:32

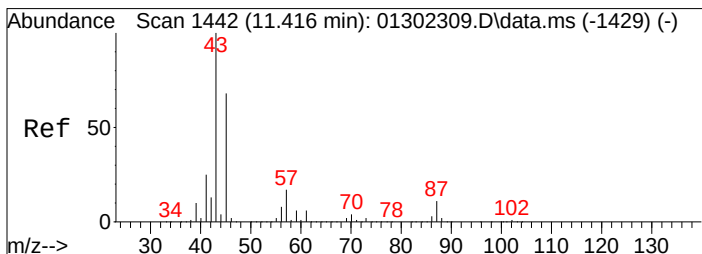
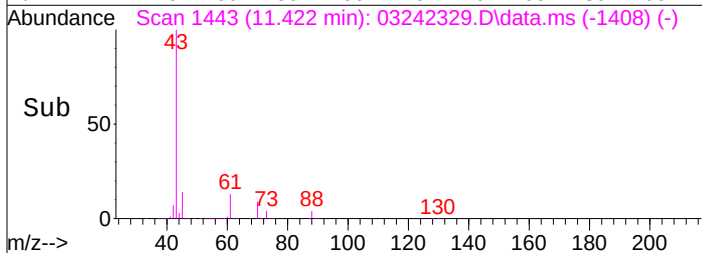
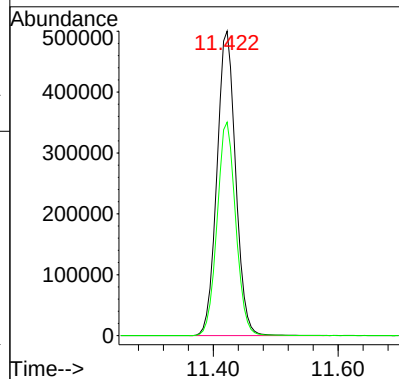
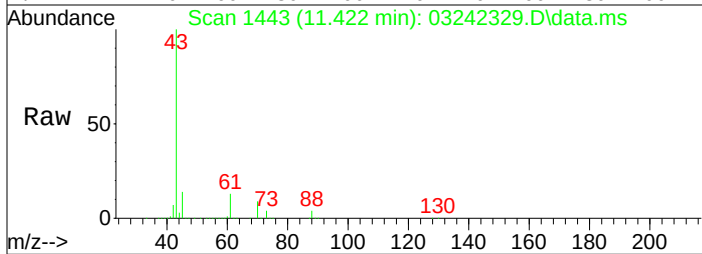
Tgt Ion: 72 Resp: 5101
 Ion Ratio Lower Upper
 72 100
 43 462.2 449.4 489.4





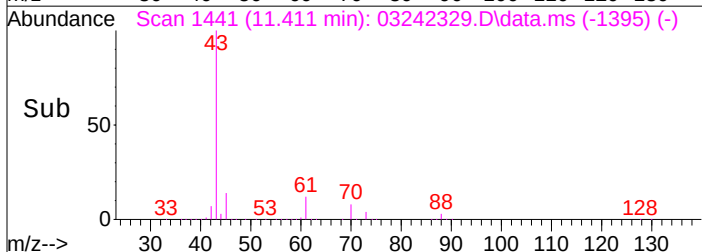
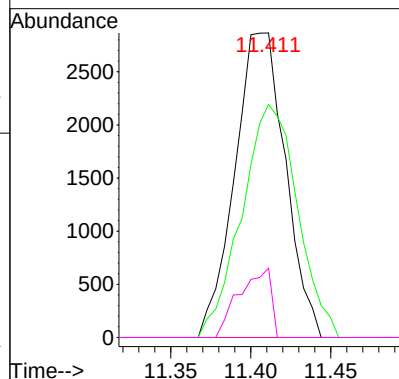
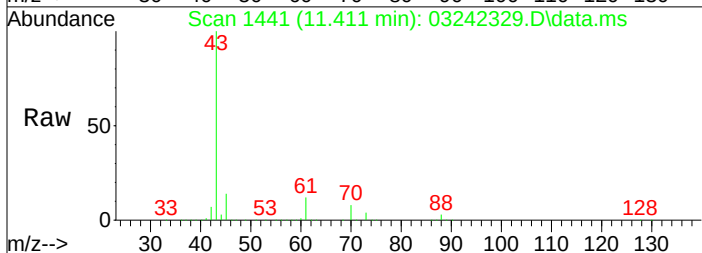
#30
Ethyl Acetate
Concen: 149.71 ng
RT: 11.42 min Scan# 1443
Delta R.T. -0.005 min
Lab File: 03242329.D
Acq: 24 Mar 2023 22:32

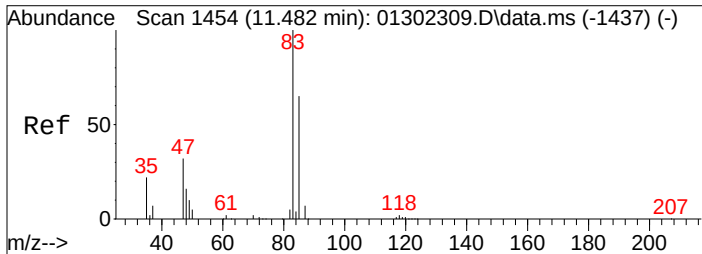
Tgt Ion: 61 Resp: 1039551
Ion Ratio Lower Upper
61 100
70 69.8 52.8 92.8



#31
n-Hexane
Concen: 0.18 ng
RT: 11.41 min Scan# 1441
Delta R.T. 0.000 min
Lab File: 03242329.D
Acq: 24 Mar 2023 22:32

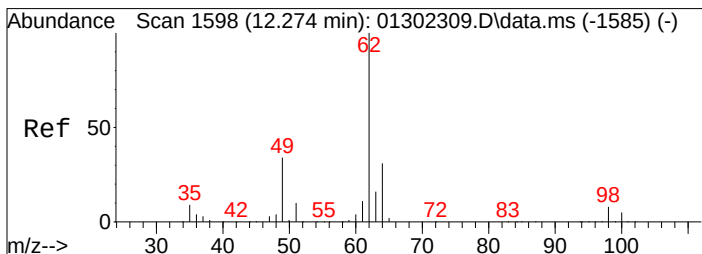
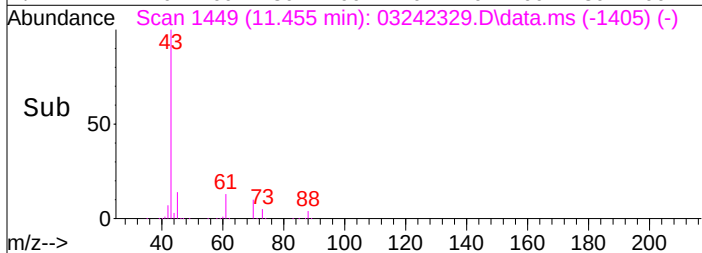
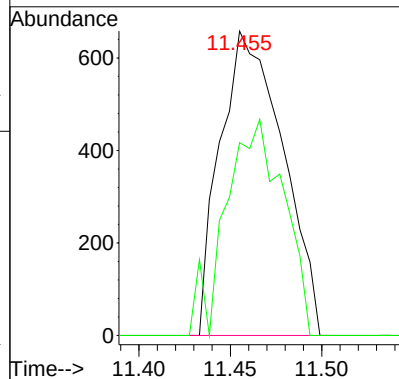
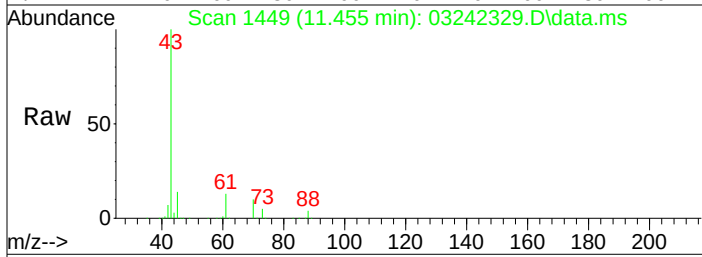
Tgt Ion: 57 Resp: 6321
Ion Ratio Lower Upper
57 100
56 84.3 39.9 59.9#
86 14.3 12.3 18.5





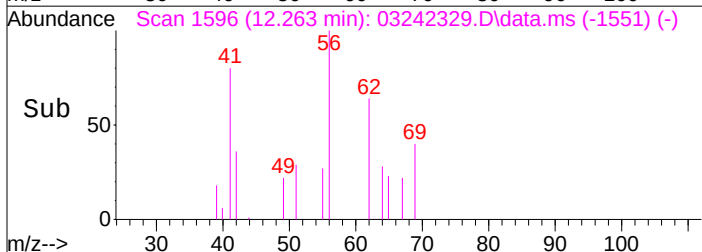
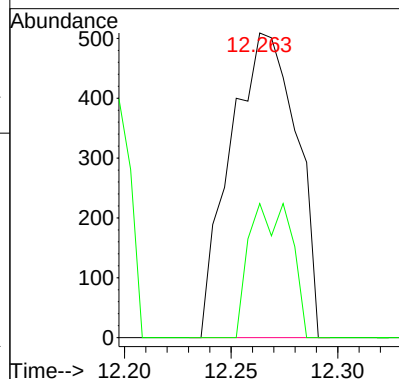
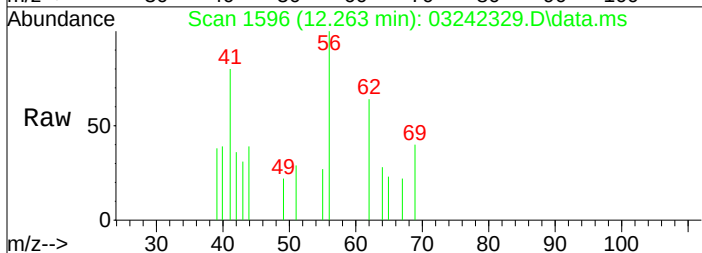
#32
Chloroform
Concen: 0.06 ng
RT: 11.46 min Scan# 1449
Delta R.T. -0.011 min
Lab File: 03242329.D
Acq: 24 Mar 2023 22:32

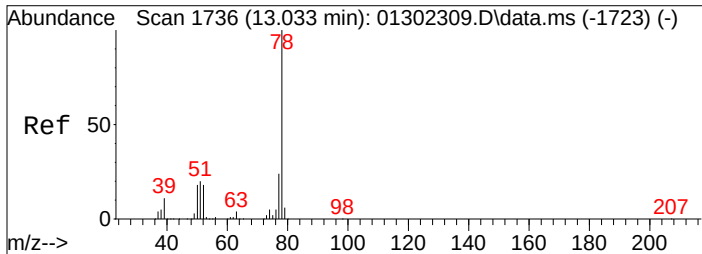
Tgt Ion: 83 Resp: 1568
Ion Ratio Lower Upper
83 100
85 65.6 45.5 85.5



#36
1,2-Dichloroethane
Concen: 0.05 ng
RT: 12.26 min Scan# 1596
Delta R.T. -0.005 min
Lab File: 03242329.D
Acq: 24 Mar 2023 22:32

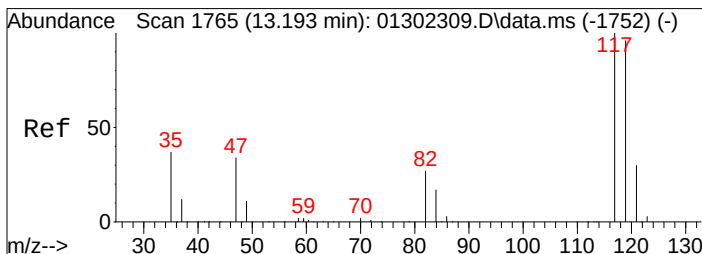
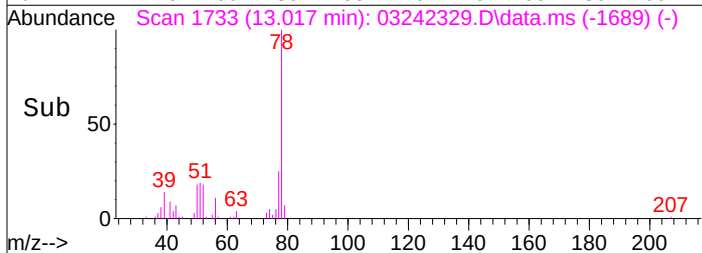
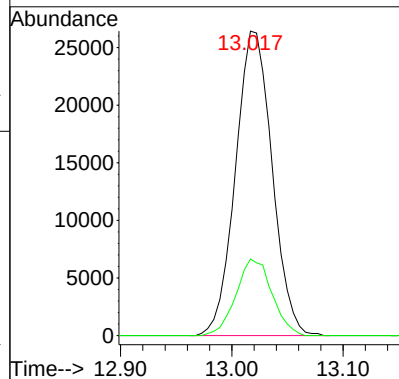
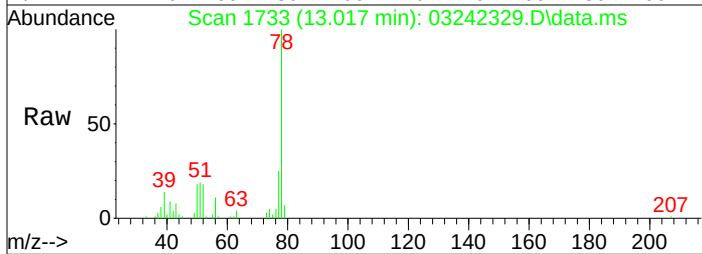
Tgt Ion: 62 Resp: 1095
Ion Ratio Lower Upper
62 100
64 28.1 12.5 52.5





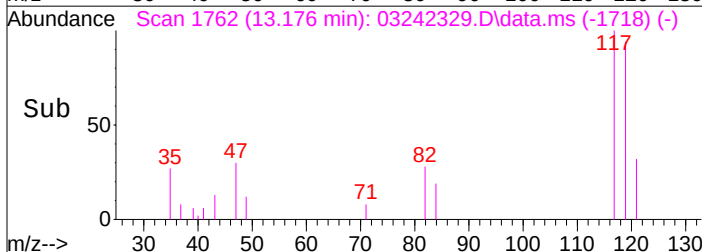
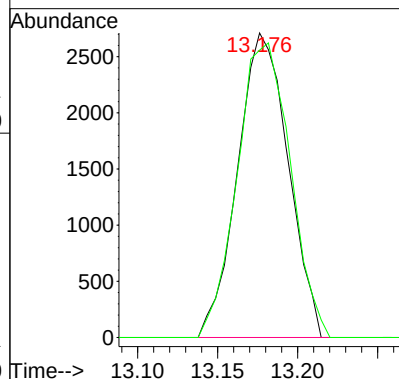
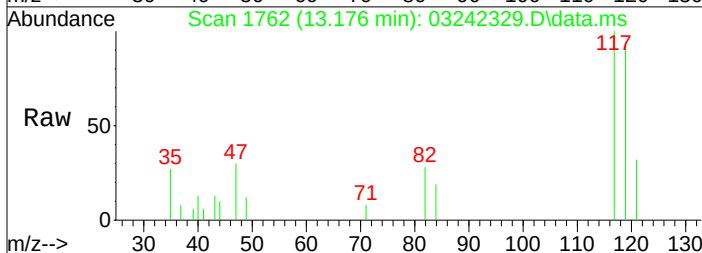
#41
Benzene
Concen: 0.94 ng
RT: 13.02 min Scan# 1733
Delta R.T. -0.011 min
Lab File: 03242329.D
Acq: 24 Mar 2023 22:32

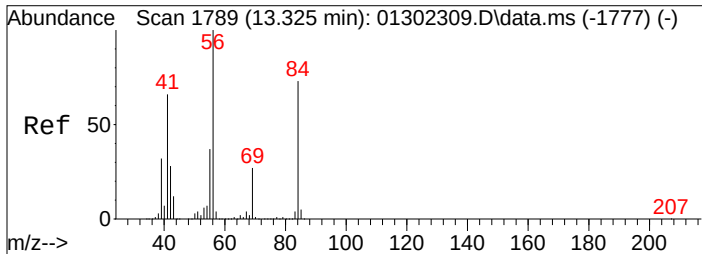
Tgt Ion: 78 Resp: 60454
Ion Ratio Lower Upper
78 100
77 24.7 3.3 43.3



#42
Carbon Tetrachloride
Concen: 0.28 ng
RT: 13.18 min Scan# 1762
Delta R.T. -0.011 min
Lab File: 03242329.D
Acq: 24 Mar 2023 22:32

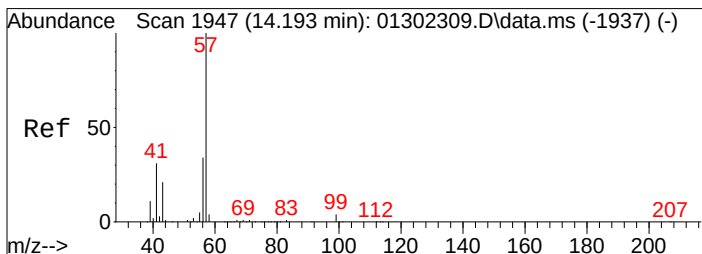
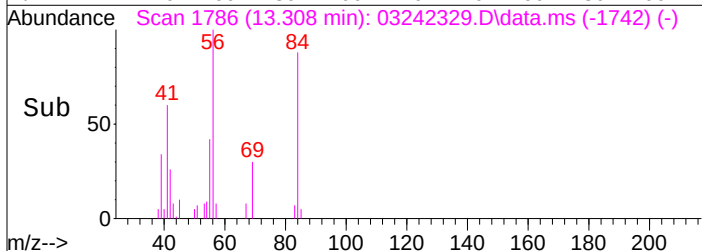
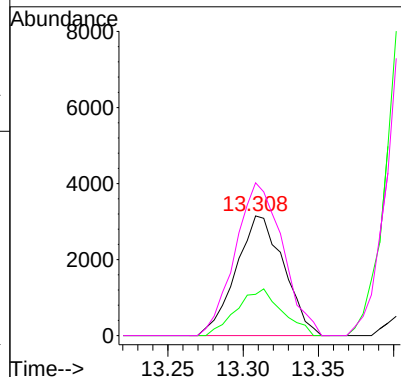
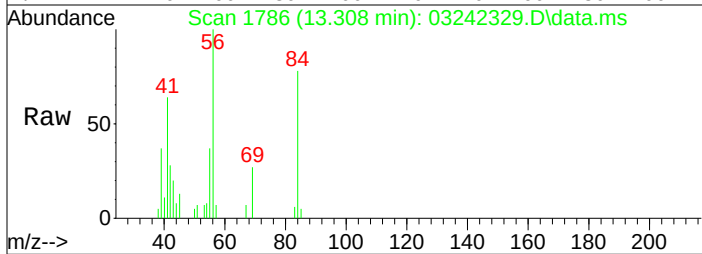
Tgt Ion: 117 Resp: 5961
Ion Ratio Lower Upper
117 100
119 101.9 76.2 116.2





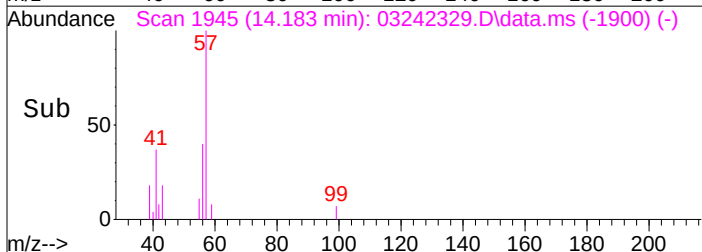
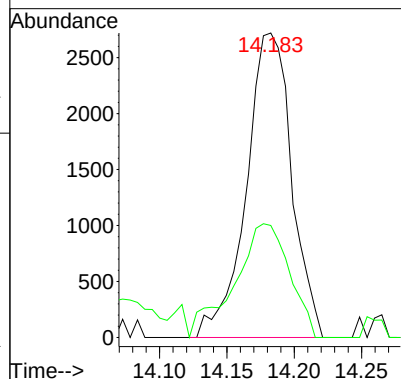
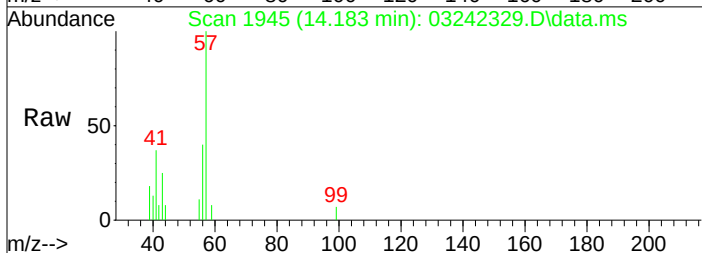
#43
Cyclohexane
Concen: 0.25 ng
RT: 13.31 min Scan# 1786
Delta R.T. -0.011 min
Lab File: 03242329.D
Acq: 24 Mar 2023 22:32

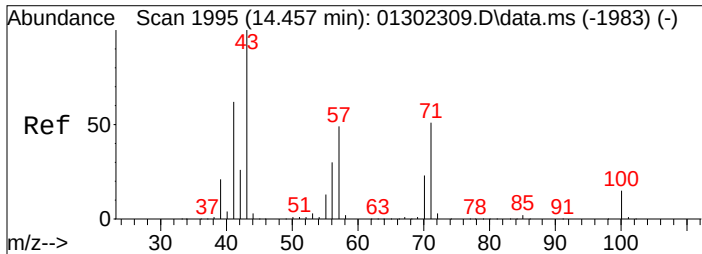
Tgt Ion:	84	Resp:	6950
Ion Ratio		Lower	Upper
84	100		
69	37.0	16.2	56.2
56	127.3	115.2	155.2



#49
2,2,4-Trimethylpentane (Isooctane)
Concen: 0.07 ng
RT: 14.18 min Scan# 1945
Delta R.T. -0.005 min
Lab File: 03242329.D
Acq: 24 Mar 2023 22:32

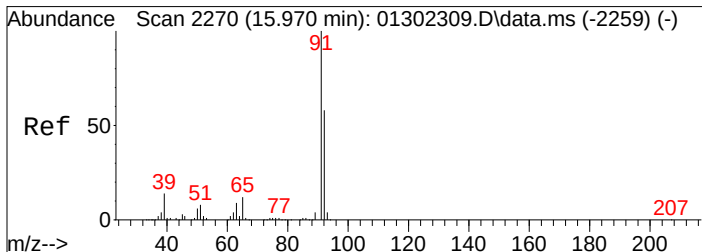
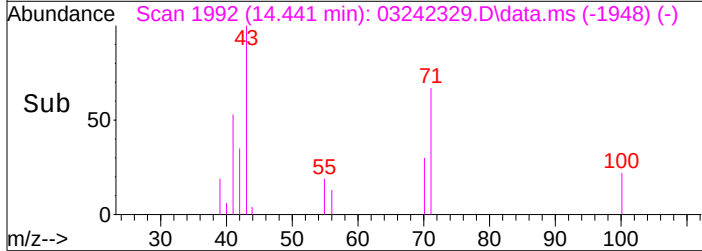
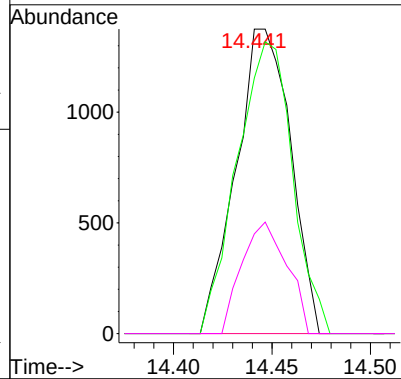
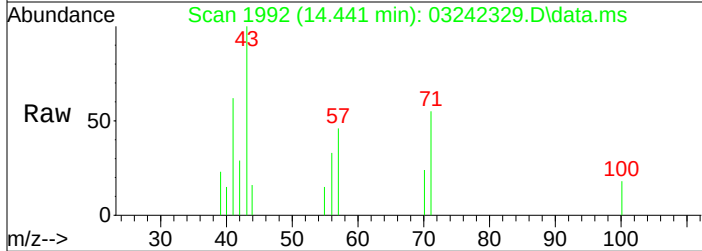
Tgt Ion:	57	Resp:	6361
Ion Ratio		Lower	Upper
57	100		
41	45.4	5.8	45.8





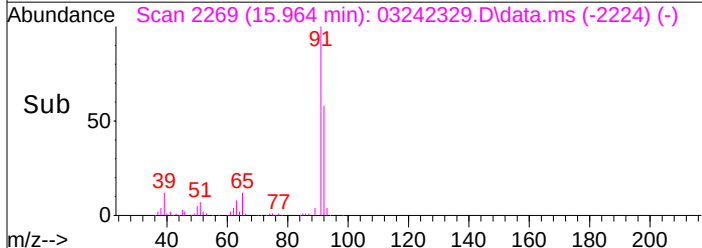
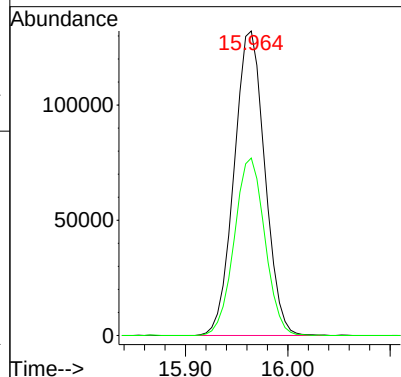
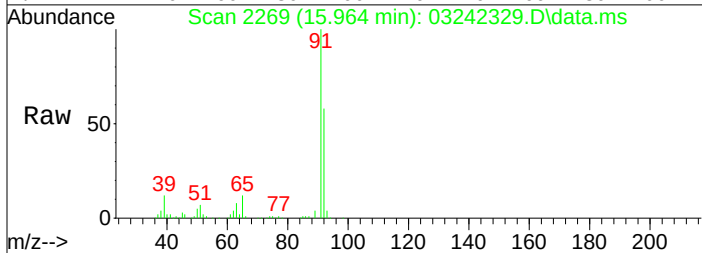
#51
n-Heptane
Concen: 0.14 ng
RT: 14.44 min Scan# 1992
Delta R.T. -0.011 min
Lab File: 03242329.D
Acq: 24 Mar 2023 22:32

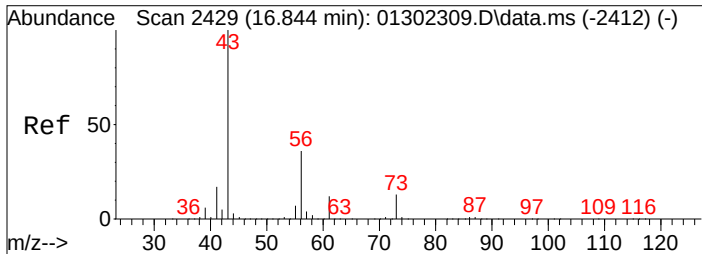
Tgt Ion:	71	Resp:	2654
Ion Ratio	Lower	Upper	
71	100		
57	97.4	81.4	121.4
100	30.4	11.8	51.8



#58
Toluene
Concen: 3.55 ng
RT: 15.96 min Scan# 2269
Delta R.T. -0.005 min
Lab File: 03242329.D
Acq: 24 Mar 2023 22:32

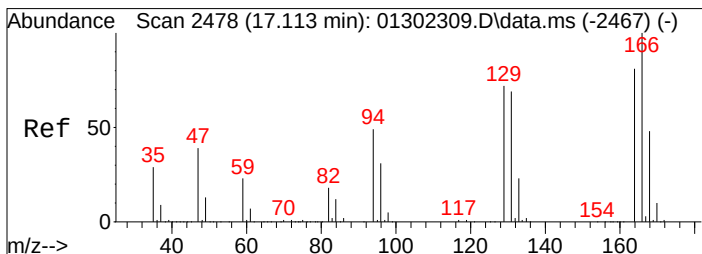
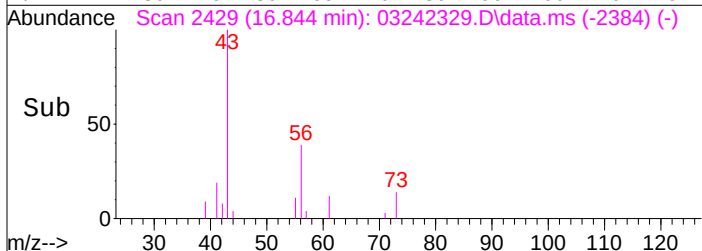
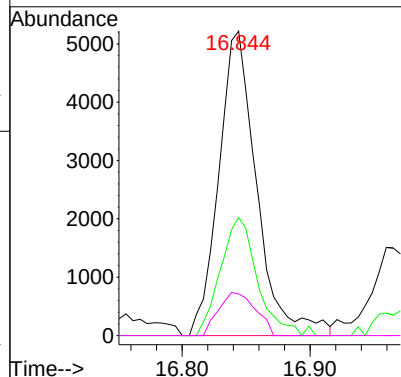
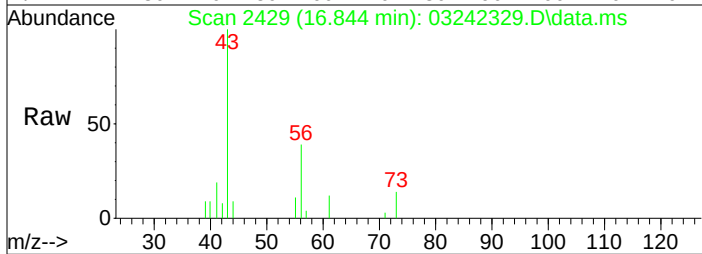
Tgt Ion:	91	Resp:	275441
Ion Ratio	Lower	Upper	
91	100		
92	58.1	39.8	79.8





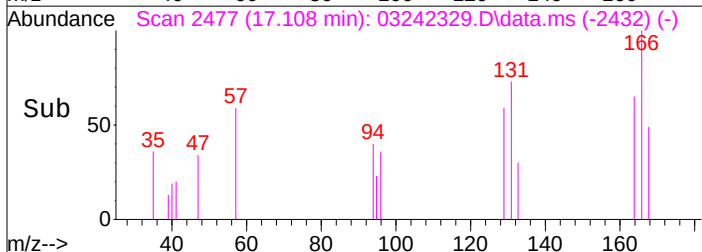
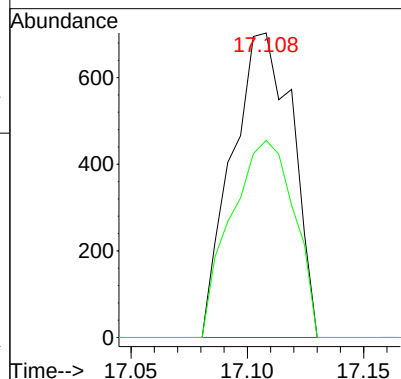
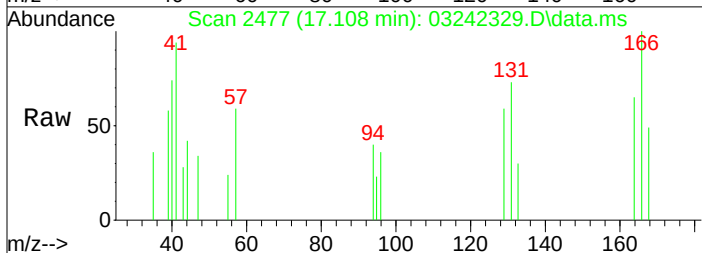
#62
 n-Butyl Acetate
 Concen: 0.23 ng
 RT: 16.84 min Scan# 2429
 Delta R.T. 0.000 min
 Lab File: 03242329.D
 Acq: 24 Mar 2023 22:32

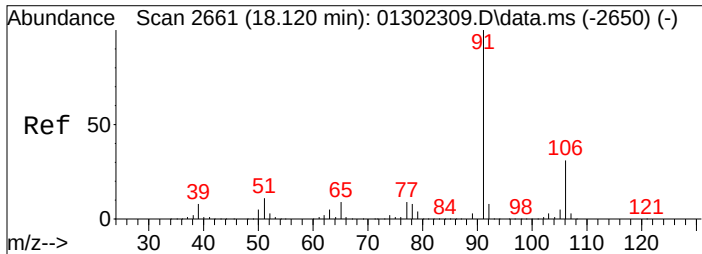
Tgt Ion:	43	Resp:	10785
Ion Ratio		Lower	Upper
43	100		
56	37.8	21.0	61.0
73	13.8	0.0	34.3



#64
 Tetrachloroethene
 Concen: 0.06 ng
 RT: 17.11 min Scan# 2477
 Delta R.T. -0.005 min
 Lab File: 03242329.D
 Acq: 24 Mar 2023 22:32

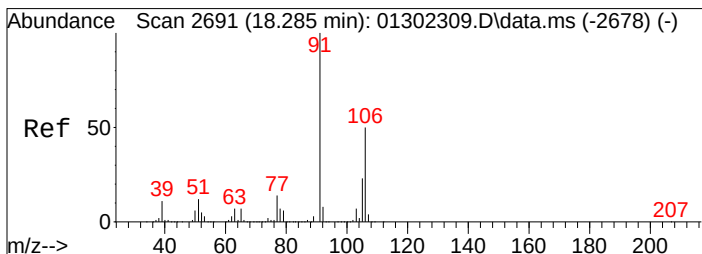
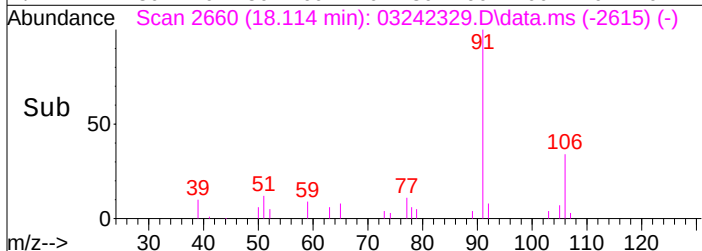
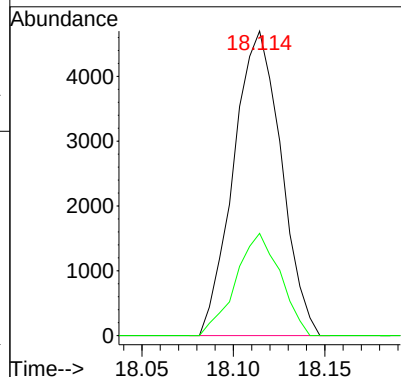
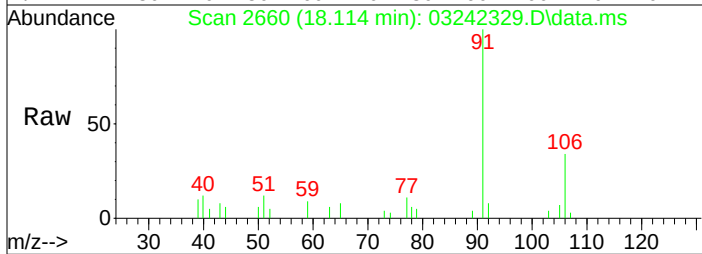
Tgt Ion:	166	Resp:	1271
Ion Ratio		Lower	Upper
166	100		
164	67.4	58.7	98.7





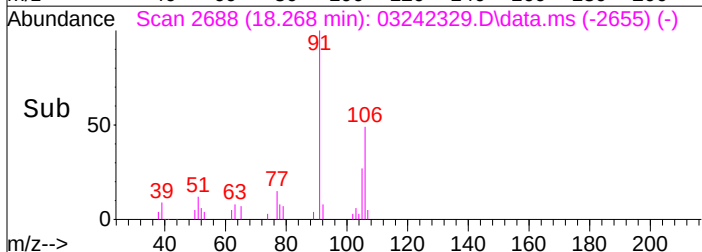
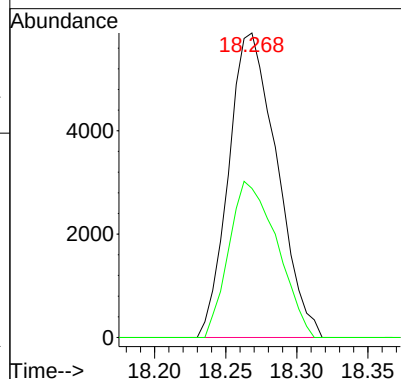
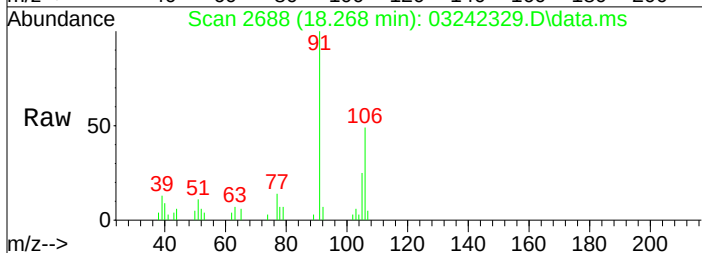
#66
Ethylbenzene
Concen: 0.10 ng
RT: 18.11 min Scan# 2660
Delta R.T. -0.005 min
Lab File: 03242329.D
Acq: 24 Mar 2023 22:32

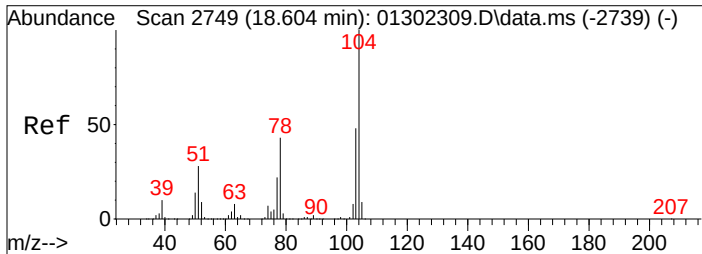
Tgt Ion: 91 Resp: 8502
Ion Ratio Lower Upper
91 100
106 31.5 11.5 51.5



#67
m- & p-Xylenes
Concen: 0.20 ng
RT: 18.27 min Scan# 2688
Delta R.T. -0.016 min
Lab File: 03242329.D
Acq: 24 Mar 2023 22:32

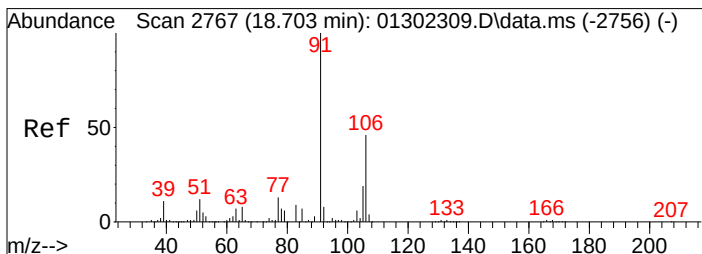
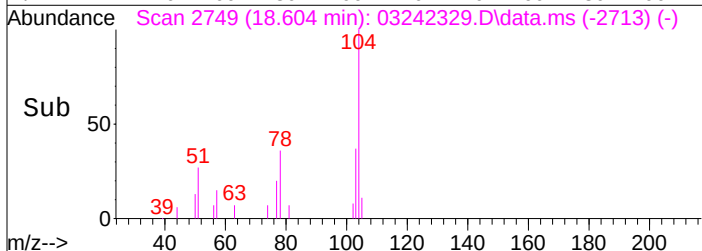
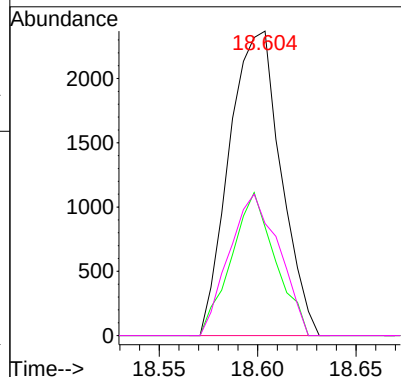
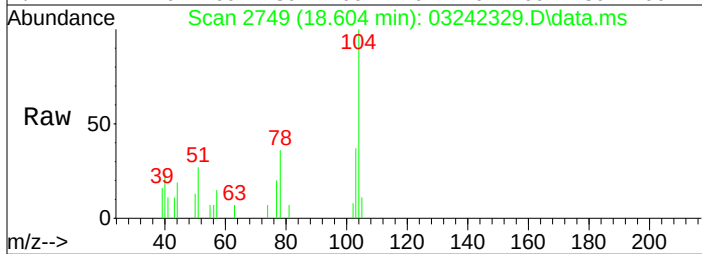
Tgt Ion: 91 Resp: 13896
Ion Ratio Lower Upper
91 100
106 51.2 29.2 69.2





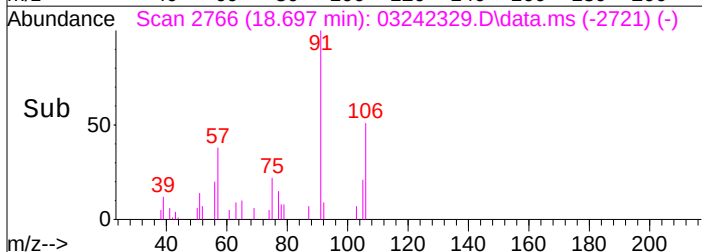
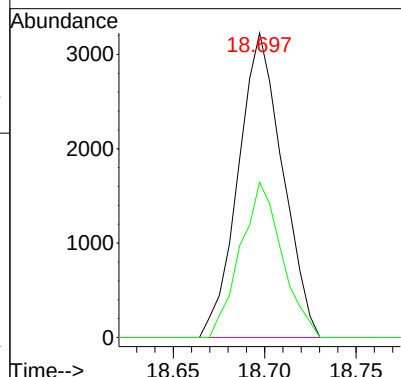
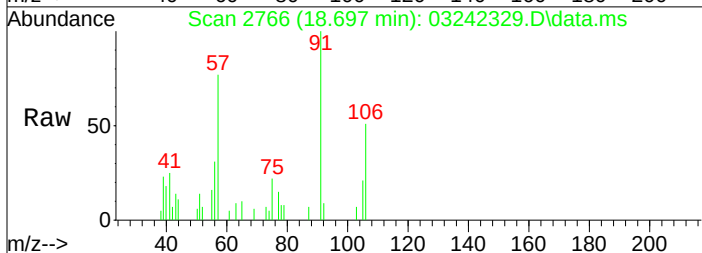
#69
Styrene
Concen: 0.09 ng
RT: 18.60 min Scan# 2749
Delta R.T. 0.000 min
Lab File: 03242329.D
Acq: 24 Mar 2023 22:32

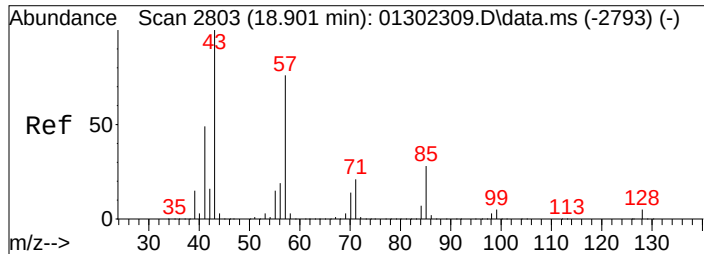
Tgt Ion: 104	Resp:	4310
Ion Ratio	Lower	Upper
104	100	
78	40.3	20.0 60.0
103	44.9	26.9 66.9



#70
o-Xylene
Concen: 0.08 ng
RT: 18.70 min Scan# 2766
Delta R.T. -0.005 min
Lab File: 03242329.D
Acq: 24 Mar 2023 22:32

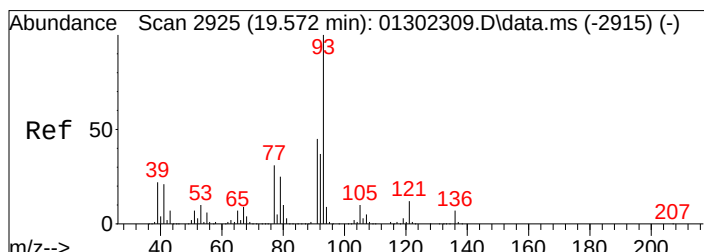
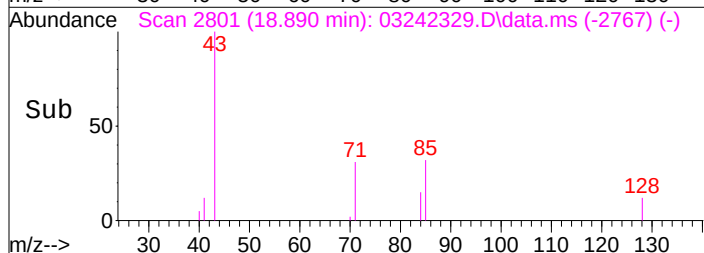
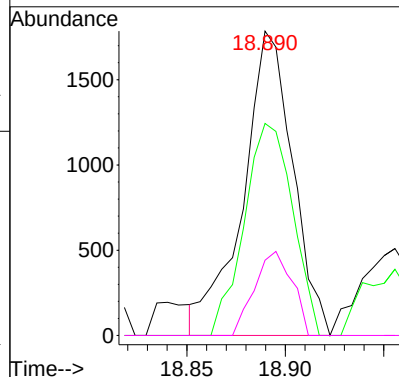
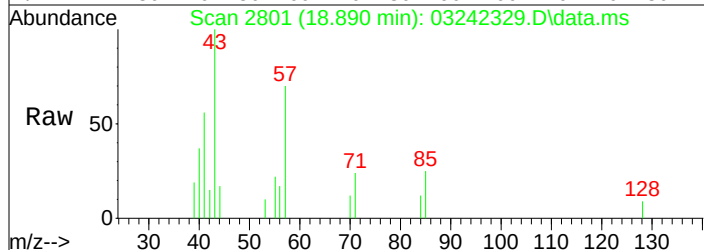
Tgt Ion: 91	Resp:	5430
Ion Ratio	Lower	Upper
91	100	
106	48.0	27.3 67.3





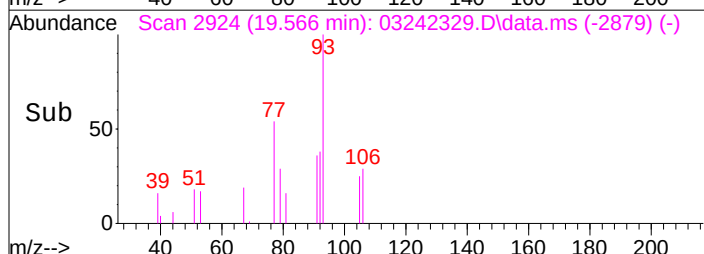
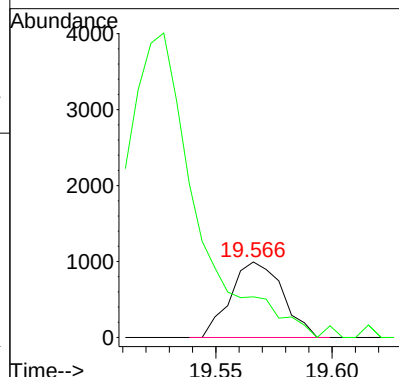
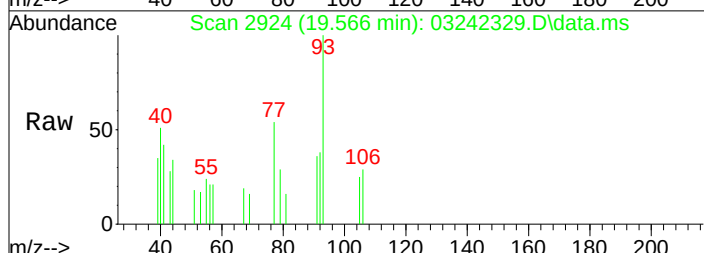
#71
n-Nonane
Concen: 0.06 ng
RT: 18.89 min Scan# 2801
Delta R.T. -0.011 min
Lab File: 03242329.D
Acq: 24 Mar 2023 22:32

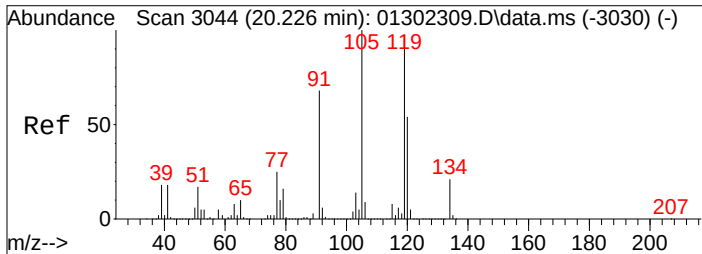
Tgt Ion:	43	Resp:	3134
Ion Ratio	Lower	Upper	
43	100		
57	67.8	64.6	104.6
85	20.9	9.6	49.6



#75
alpha-Pinene
Concen: 0.07 ng
RT: 19.57 min Scan# 2924
Delta R.T. -0.005 min
Lab File: 03242329.D
Acq: 24 Mar 2023 22:32

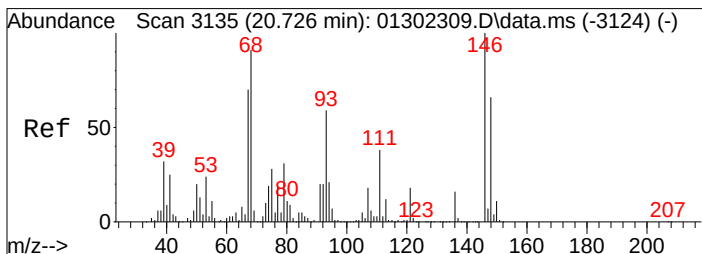
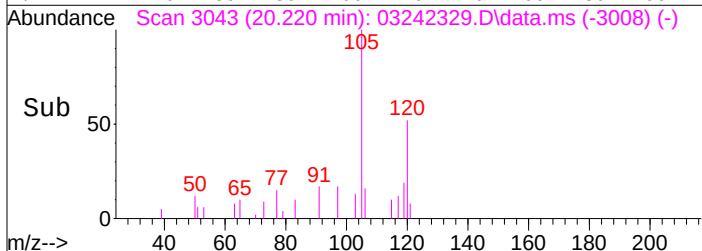
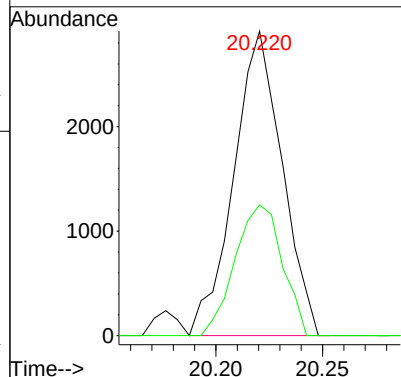
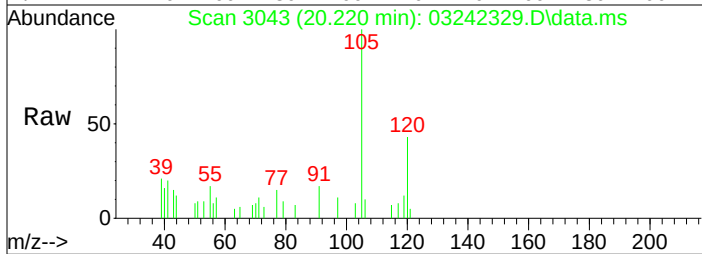
Tgt Ion:	93	Resp:	1547
Ion Ratio	Lower	Upper	
93	100		
77	539.2	11.7	51.7#





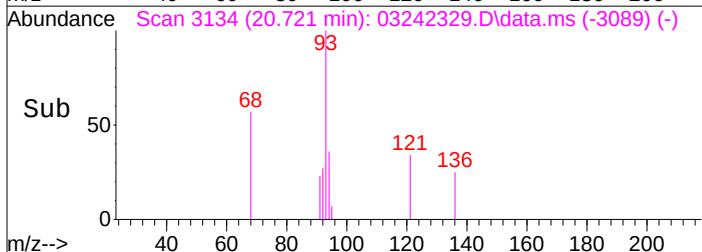
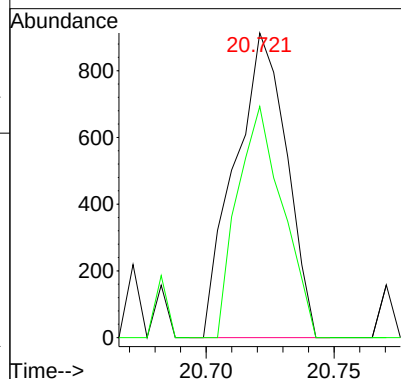
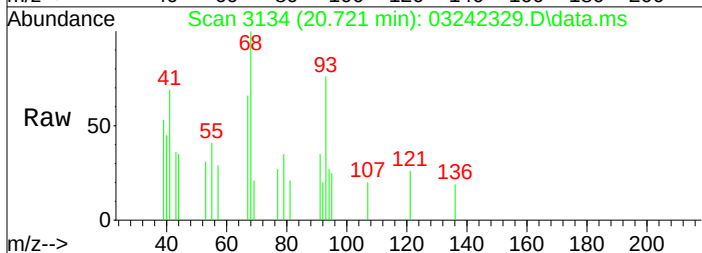
#82
 1,2,4-Trimethylbenzene
 Concen: 0.07 ng
 RT: 20.22 min Scan# 3043
 Delta R.T. -0.005 min
 Lab File: 03242329.D
 Acq: 24 Mar 2023 22:32

Tgt Ion: 105 Resp: 4598
 Ion Ratio Lower Upper
 105 100
 120 41.9 37.2 77.2



#91
 d-Limonene
 Concen: 0.06 ng
 RT: 20.72 min Scan# 3134
 Delta R.T. -0.005 min
 Lab File: 03242329.D
 Acq: 24 Mar 2023 22:32

Tgt Ion: 68 Resp: 1287
 Ion Ratio Lower Upper
 68 100
 93 66.6 49.6 89.6



Data File : I:\MS16\DATA\2023_03\24\03242329.D
 Acq On : 24 Mar 2023 22:32
 Sample : P2301250-051 (1000mL)
 Misc : S35-01312301

Vial: 13
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 09:52:41 2023
 Quant Method : I:\MS16\METHODS\C16122022.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Dec 21 05:02:49 2022
 Response via : Initial Calibration
 DataAcq Meth:T015B.M

 3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.30	130	198966	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	13.42	114	916719	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	17.72	54	202501	12.500	ng	0.00

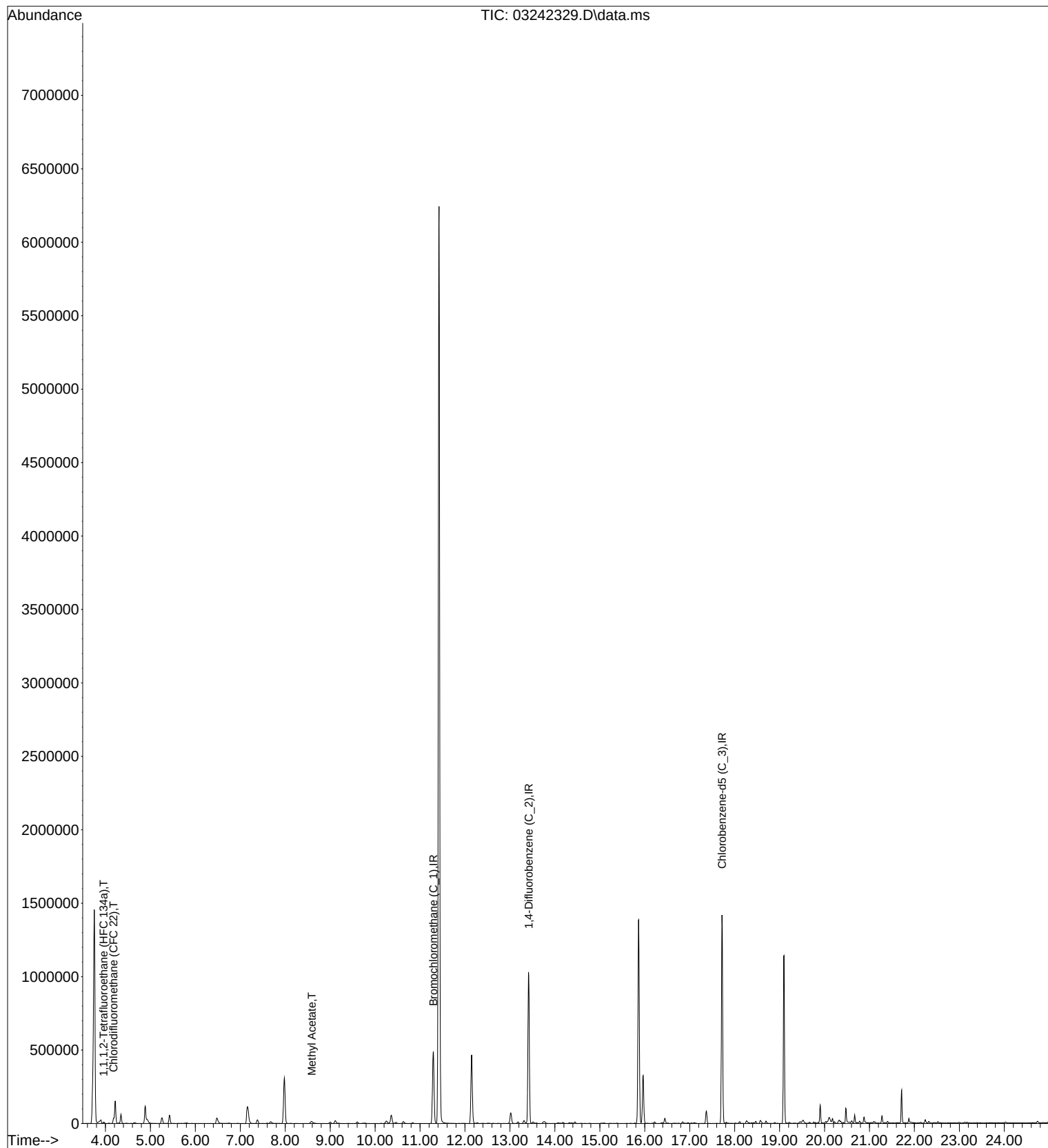
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.88	85	626	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.96	83	4990	0.316	ng	93
4) 1,1-Difluoroethane	4.08	65	1169	N.D.		
5) Chlorodifluoromethane ...	4.18	67	2263	0.460	ng	85
6) 1-Chloro-1,1-Difluoroe...	4.65	65	2130	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	8.59	43	16927	0.343	ng	# 77
12) 2-Methylpentane	0.00	71	0	N.D.	d	
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	13.17	84	1146	N.D.		
17) 2,3-Dimethylpentane	13.59	56	1669	N.D.		
18) Dibromomethane	13.84	174	115	N.D.		
20) Methyl Cyclohexane	15.08	55	1681	N.D.		
21) 1,3-Dichloropropane	15.97	76	1171	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	0.00	91	0	N.D.		
24) 1,2,3-Trichloropropane	18.69	75	1205	N.D.		
25) Bromobenzene	19.22	77	58	N.D.		
26) 2-Chlorotoluene	19.67	91	1934	N.D.		
27) 4-Chlorotoluene	19.67	91	1934	N.D.		
28) Indane	20.78	117	570	N.D.		
29) Indene	20.85	115	52	N.D.		
30) 1,2,4,5-Tetramethylben...	21.61	119	554	N.D.		
31) 1,2,3,4-Tetramethylben...	21.64	119	950	N.D.		
32) 1,2,3,5-Tetramethylben...	21.99	119	713	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\24\03242329.D
Acq On : 24 Mar 2023 22:32
Sample : P2301250-051 (1000mL)
Misc : S35-01312301

Vial: 13
Operator: WA
Inst : GCMS-16

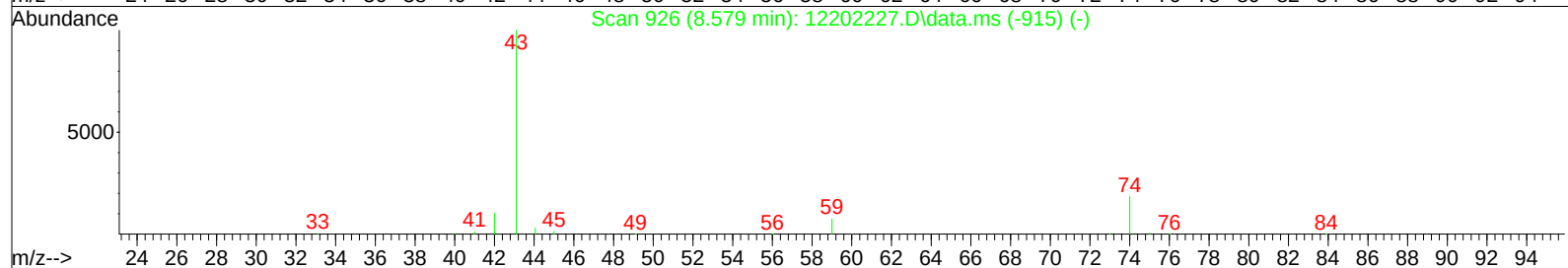
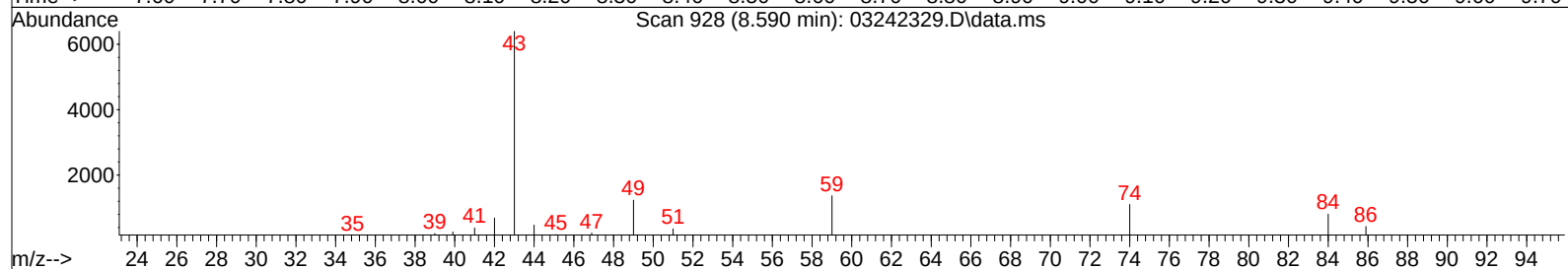
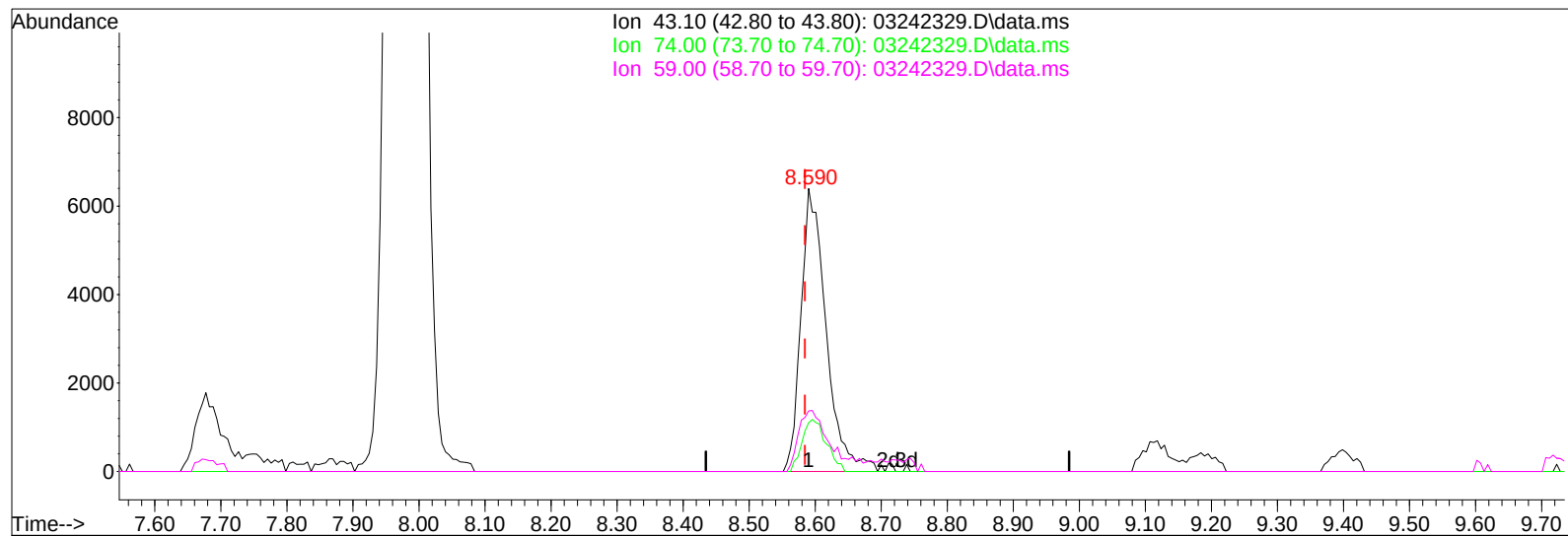
Quant Time: Mar 27 09:52:41 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



Data File : I:\MS16\DATA\2023_03\24\03242329.D
Acq On : 24 Mar 2023 22:32
Sample : P2301250-051 (1000mL)
Misc : S35-01312301

Vial: 13
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 09:26:50 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



TIC: 03242329.D\data.ms

(11) Methyl Acetate (T)

8.590min (+0.006) 0.34ng

response 16927

Ion	Exp%	Act%
43.10	100	100
74.00	18.10	17.68
59.00	7.20	34.21#
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG34-2

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-052

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02226

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.98 Final Pressure (psig): 5.11

Container Dilution Factor: 1.56

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.7	0.83	0.14	0.55	0.17	0.027	
74-87-3	Chloromethane	0.31	0.33	0.13	0.15	0.16	0.065	J
75-01-4	Vinyl Chloride	ND	0.17	0.089	ND	0.067	0.035	
74-83-9	Bromomethane	ND	0.33	0.12	ND	0.084	0.030	
75-00-3	Chloroethane	ND	0.33	0.10	ND	0.12	0.039	
67-64-1	Acetone	3.3	8.2	1.9	1.4	3.5	0.79	J
75-69-4	Trichlorofluoromethane	1.4	0.81	0.13	0.25	0.14	0.022	
75-35-4	1,1-Dichloroethene	ND	0.17	0.12	ND	0.043	0.029	
75-09-2	Methylene Chloride	0.40	0.83	0.23	0.12	0.24	0.067	J
76-13-1	Trichlorotrifluoroethane	0.49	0.84	0.12	0.065	0.11	0.015	J
75-15-0	Carbon Disulfide	ND	1.7	0.25	ND	0.54	0.080	
156-60-5	trans-1,2-Dichloroethene	ND	0.17	0.12	ND	0.043	0.029	
75-34-3	1,1-Dichloroethane	ND	0.17	0.12	ND	0.042	0.030	
1634-04-4	Methyl tert-Butyl Ether	ND	0.84	0.098	ND	0.23	0.027	
78-93-3	2-Butanone (MEK)	0.63	1.6	0.17	0.21	0.55	0.058	J
156-59-2	cis-1,2-Dichloroethene	ND	0.17	0.12	ND	0.043	0.030	
67-66-3	Chloroform	ND	0.17	0.11	ND	0.035	0.023	
107-06-2	1,2-Dichloroethane	ND	0.17	0.092	ND	0.042	0.023	
71-55-6	1,1,1-Trichloroethane	ND	0.17	0.10	ND	0.031	0.019	
71-43-2	Benzene	0.61	0.17	0.12	0.19	0.054	0.038	
56-23-5	Carbon Tetrachloride	0.45	0.17	0.12	0.072	0.027	0.018	
110-82-7	Cyclohexane	ND	1.6	0.23	ND	0.48	0.068	
78-87-5	1,2-Dichloropropane	ND	0.17	0.10	ND	0.037	0.022	
75-27-4	Bromodichloromethane	ND	0.17	0.12	ND	0.026	0.018	
79-01-6	Trichloroethene	ND	0.17	0.11	ND	0.032	0.021	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG34-2

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-052

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02226

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.98 Final Pressure (psig): 5.11

Container Dilution Factor: 1.56

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.84	0.13	ND	0.19	0.029	
108-10-1	4-Methyl-2-pentanone	ND	1.7	0.11	ND	0.42	0.028	
10061-02-6	trans-1,3-Dichloropropene	ND	0.80	0.17	ND	0.18	0.038	
79-00-5	1,1,2-Trichloroethane	ND	0.17	0.084	ND	0.031	0.015	
108-88-3	Toluene	0.84	0.83	0.10	0.22	0.22	0.027	
591-78-6	2-Hexanone	ND	1.7	0.10	ND	0.42	0.025	
124-48-1	Dibromochloromethane	ND	0.17	0.11	ND	0.020	0.013	
106-93-4	1,2-Dibromoethane	ND	0.17	0.097	ND	0.022	0.013	
127-18-4	Tetrachloroethene	0.12	0.17	0.11	0.017	0.025	0.016	J
108-90-7	Chlorobenzene	ND	0.83	0.11	ND	0.18	0.024	
100-41-4	Ethylbenzene	ND	0.83	0.12	ND	0.19	0.027	
179601-23-1	m,p-Xylenes	0.26	1.7	0.22	0.059	0.40	0.050	J
75-25-2	Bromoform	ND	0.84	0.17	ND	0.082	0.017	
100-42-5	Styrene	ND	0.83	0.13	ND	0.19	0.032	
95-47-6	o-Xylene	ND	0.83	0.12	ND	0.19	0.028	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.17	0.12	ND	0.025	0.017	
98-82-8	Cumene	ND	0.84	0.12	ND	0.17	0.024	
541-73-1	1,3-Dichlorobenzene	ND	0.83	0.12	ND	0.14	0.021	
106-46-7	1,4-Dichlorobenzene	ND	0.83	0.13	ND	0.14	0.021	
95-50-1	1,2-Dichlorobenzene	ND	0.84	0.12	ND	0.14	0.021	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.7	0.16	ND	0.18	0.016	
120-82-1	1,2,4-Trichlorobenzene	ND	1.7	0.20	ND	0.23	0.027	
79-20-9	Methyl Acetate	ND	0.78	0.37	ND	0.26	0.12	X
108-87-2	Methylcyclohexane	ND	0.78	0.41	ND	0.19	0.10	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS16\DATA\2023_03\24\03242330.D
 Acq On : 24 Mar 2023 23:06
 Sample : P2301250-052 (1000mL)
 Misc : S35-01312301

Vial: 14
 Operator: WA
 Inst : GCMS-16

WA 3/27/23

Quant Time: Mar 27 09:22:05 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:TO15B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	197382	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	908063	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.72	54	199227	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	355759	13.553	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	108.40%
57) Toluene-d8 (SS2)	15.86	98	1036001	11.878	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	95.04%
73) Bromofluorobenzene (SS3)	19.10	174	311508	11.451	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	91.60%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	4.34	85	51600	1.749	ng	99
4) Chloromethane	4.64	50	5508	0.200	ng	95
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	1263	0.077	ng	75
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.33	54	363	N.D.		
8) Bromomethane	5.77	94	282	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.48	45	32692	1.721	ng	95
11) Acetonitrile	6.74	41	3088	0.065	ng	73
12) Acrolein	6.95	56	1798	0.134	ng	97
13) Acetone	7.16	58	30935	2.129	ng	# 77
14) Trichlorofluoromethane	7.38	101	24326	0.894	ng	98
15) 2-Propanol (Isopropanol)	7.69	45	10269	0.203	ng	92
16) Acrylonitrile	7.91	53	104	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	8.61	59	474	N.D.		
19) Methylene Chloride	8.56	84	4110	0.256	ng	92
20) 3-Chloro-1-propene (Al...	8.67	41	112	N.D.		
21) Trichlorotrifluoroethane	9.00	151	4304	0.317	ng	87
22) Carbon Disulfide	8.83	76	2796	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	10.24	73	781	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	10.62	72	4222	0.401	ng	96
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	11.42	61	90369	13.119	ng	95
31) n-Hexane	11.40	57	3898	0.113	ng	92
32) Chloroform	11.45	83	1477	0.056	ng	91
34) Tetrahydrofuran (THF)	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	12.25	62	1100	0.051	ng	80
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.02	78	24929	0.390	ng	98
42) Carbon Tetrachloride	13.18	117	6006	0.289	ng	100
43) Cyclohexane	13.31	84	1001	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	14.11	130	321	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	14.18	57	5126	0.059	ng	71
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS16\DATA\2023_03\24\03242330.D
 Acq On : 24 Mar 2023 23:06
 Sample : P2301250-052 (1000mL)
 Misc : S35-01312301

Vial: 14
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 09:22:05 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

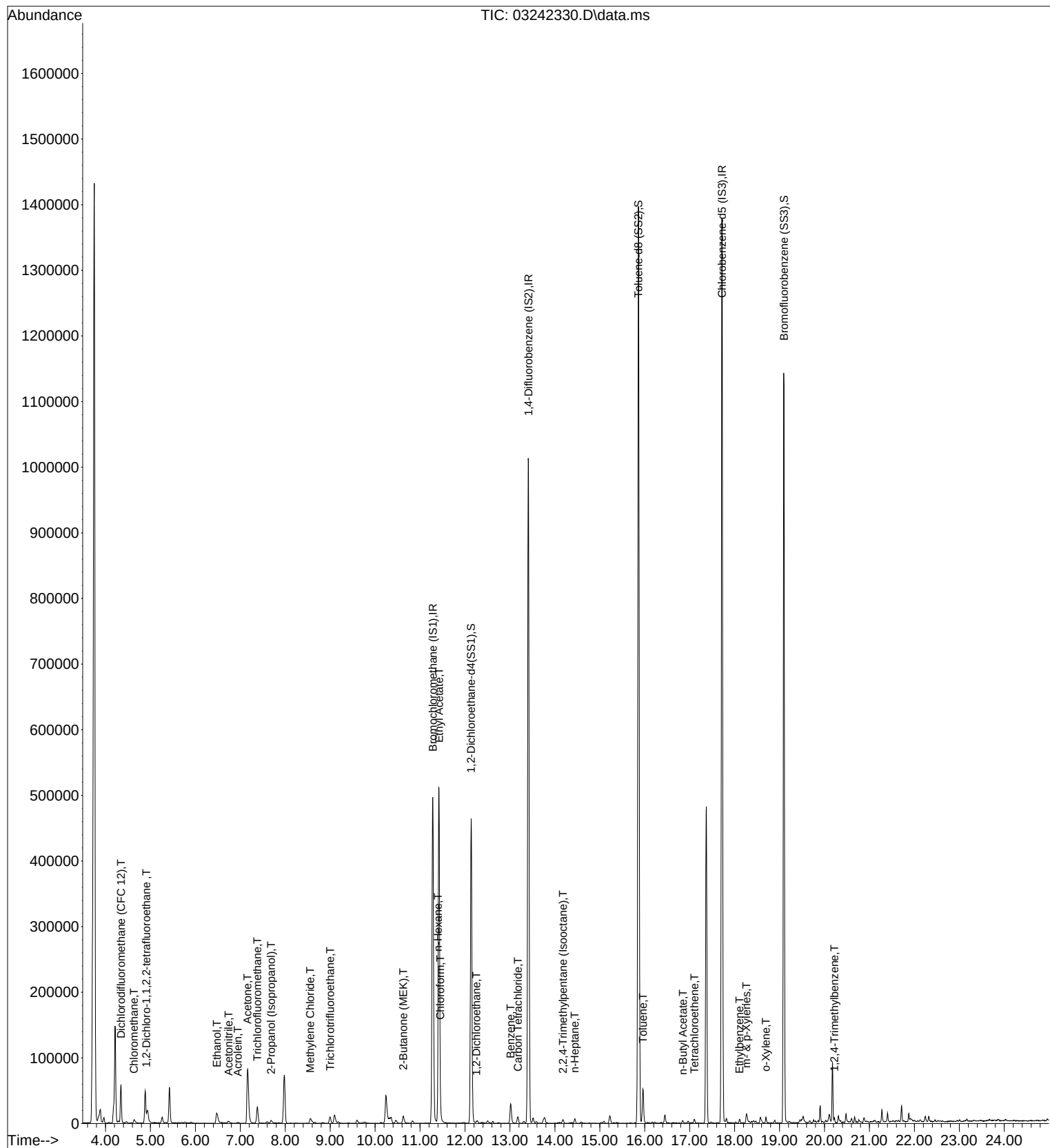
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.44	71	1619	0.086	ng	94
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	15.03	58	216	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.96	91	41363	0.541	ng	97
59) 2-Hexanone	16.22	43	1858	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.85	43	3492	0.076	ng	96
63) n-Octane	16.96	57	522	N.D.		
64) Tetrachloroethene	17.11	166	1454	0.075	ng	93
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	18.11	91	4895	0.057	ng	100
67) m- & p-Xylenes	18.26	91	11183	0.164	ng	98
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.59	104	1923	N.D.		
70) o-Xylene	18.70	91	4072	0.061	ng	100
71) n-Nonane	18.89	43	2235	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	19.21	105	710	N.D.		
75) alpha-Pinene	19.57	93	791	N.D.		
76) n-Propylbenzene	19.67	91	1301	N.D.		
77) 3-Ethyltoluene	20.22	105	3526	No Calib	#	
78) 4-Ethyltoluene	19.79	105	1196	N.D.		
79) 1,3,5-Trimethylbenzene	19.86	105	1235	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.22	105	3526	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.22	105	3526	0.051	ng	86
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
86) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
87) sec-Butylbenzene	20.45	105	252	N.D.		
88) 4-Isopropyltoluene (p-...	20.59	119	1482	N.D.		
89) 1,2,3-Trimethylbenzene	20.22	105	3526	No Calib	#	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	20.72	68	575	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	21.28	58	136	No Calib	#	
94) 1,2,4-Trichlorobenzene	22.22	180	175	N.D.		
95) Naphthalene	22.33	128	1232	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	18.19	55	247	No Calib	#	
99) tert-Butylbenzene	20.23	119	596	N.D.		
100) n-Butylbenzene	20.95	91	810	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\24\03242330.D
Acq On : 24 Mar 2023 23:06
Sample : P2301250-052 (1000mL)
Misc : S35-01312301

Vial: 14
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 09:22:05 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



Data File : I:\MS16\DATA\2023_03\24\03242330.D
 Acq On : 24 Mar 2023 23:06
 Sample : P2301250-052 (1000mL)
 Misc : S35-01312301

Vial: 14
 Operator: WA
 Inst : GCMS-16

3/27/23

Quant Time: Mar 27 09:22:05 2023
 Quant Method : I:\MS16\METHODS\R16122022.M
 Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
 QLast Update : Wed Dec 21 03:06:38 2022
 Response via : Initial Calibration
 DataAcq Meth:T015B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	197382	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	908063	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.72	54	199227	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	355759	13.553	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	108.40%	
57) Toluene-d8 (SS2)	15.86	98	1036001	11.878	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	95.04%	
73) Bromofluorobenzene (SS3)	19.10	174	311508	11.451	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	91.60%	

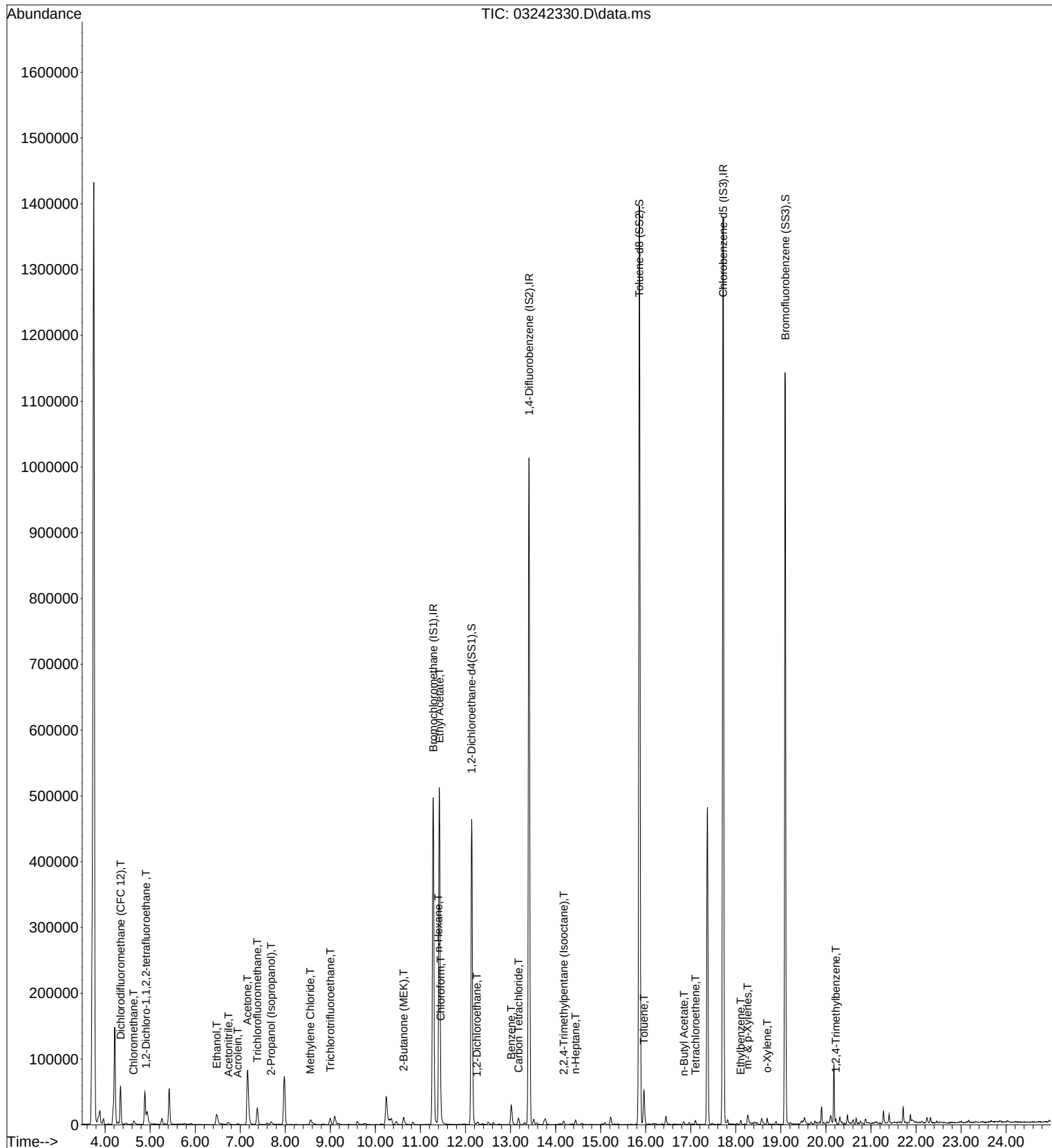
Target Compounds

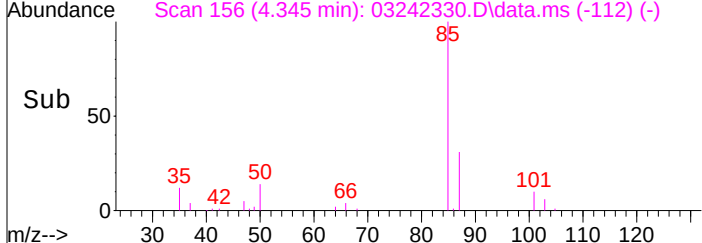
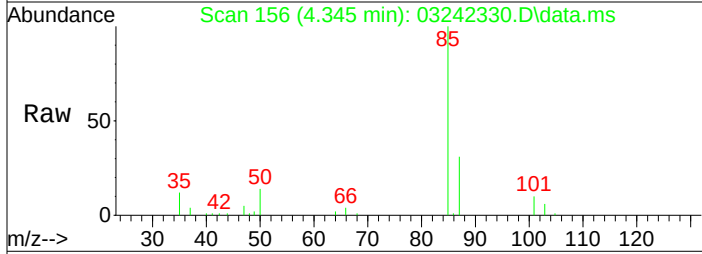
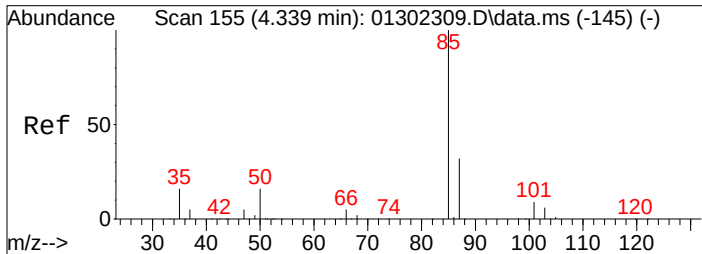
						Qvalue
3) Dichlorodifluoromethan...	4.34	85	51600	1.749	ng	99
4) Chloromethane	4.64	50	5508	0.200	ng	95
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	1263	0.077	ng	75
10) Ethanol	6.48	45	32692	1.721	ng	95
11) Acetonitrile	6.74	41	3088	0.065	ng	73
12) Acrolein	6.95	56	1798	0.134	ng	97
13) Acetone	7.16	58	30935	2.129	ng	# 77
14) Trichlorofluoromethane	7.38	101	24326	0.894	ng	98
15) 2-Propanol (Isopropanol)	7.69	45	10269	0.203	ng	92
19) Methylene Chloride	8.56	84	4110	0.256	ng	92
21) Trichlorotrifluoroethane	9.00	151	4304	0.317	ng	87
27) 2-Butanone (MEK)	10.62	72	4222	0.401	ng	96
30) Ethyl Acetate	11.42	61	90369	13.119	ng	95
31) n-Hexane	11.40	57	3898	0.113	ng	92
32) Chloroform	11.45	83	1477	0.056	ng	91
36) 1,2-Dichloroethane	12.25	62	1100	0.051	ng	80
41) Benzene	13.02	78	24929	0.390	ng	98
42) Carbon Tetrachloride	13.18	117	6006	0.289	ng	100
49) 2,2,4-Trimethylpentane...	14.18	57	5126	0.059	ng	71
51) n-Heptane	14.44	71	1619	0.086	ng	94
58) Toluene	15.96	91	41363	0.541	ng	97
62) n-Butyl Acetate	16.85	43	3492	0.076	ng	96
64) Tetrachloroethene	17.11	166	1454	0.075	ng	93
66) Ethylbenzene	18.11	91	4895	0.057	ng	100
67) m- & p-Xylenes	18.26	91	11183	0.164	ng	98
70) o-Xylene	18.70	91	4072	0.061	ng	100
82) 1,2,4-Trimethylbenzene	20.22	105	3526	0.051	ng	86

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

Vial: 14
Operator: WA
Inst : GCMS-16

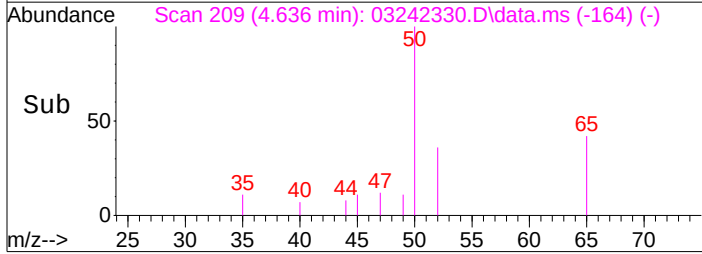
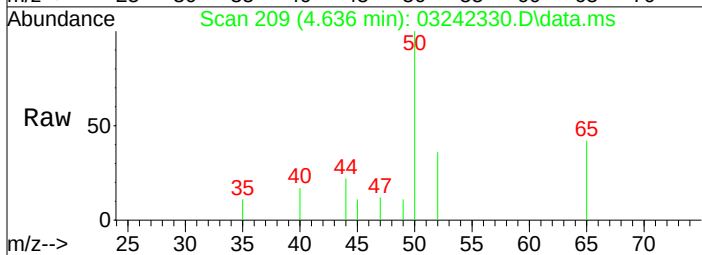
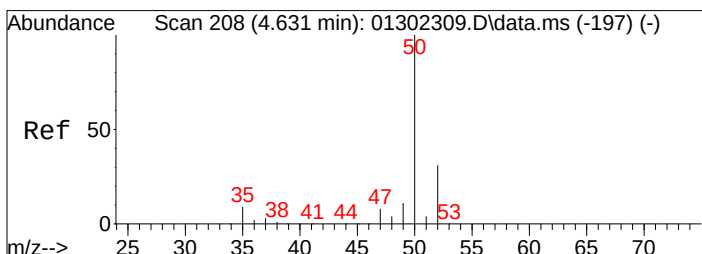
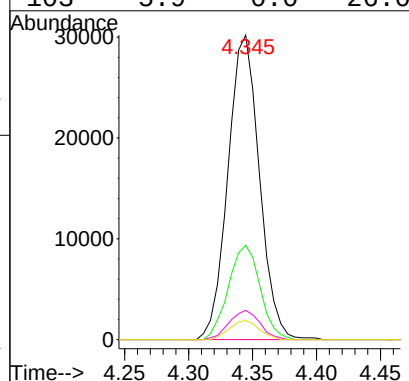
Quant Time: Mar 27 09:22:05 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:TO15B.M





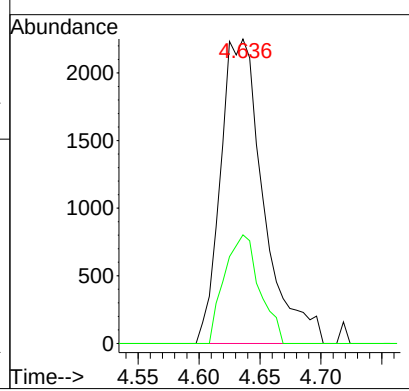
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.75 ng
 RT: 4.34 min Scan# 156
 Delta R.T. -0.005 min
 Lab File: 03242330.D
 Acq: 24 Mar 2023 23:06

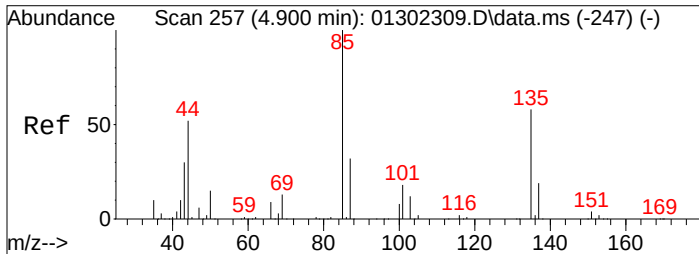
Tgt Ion:	85	Resp:	51600
Ion Ratio	Lower	Upper	
85	100		
87	31.1	12.1	52.1
101	9.3	0.0	29.3
103	5.9	0.0	26.0



#4
 Chloromethane
 Concen: 0.20 ng
 RT: 4.64 min Scan# 209
 Delta R.T. 0.000 min
 Lab File: 03242330.D
 Acq: 24 Mar 2023 23:06

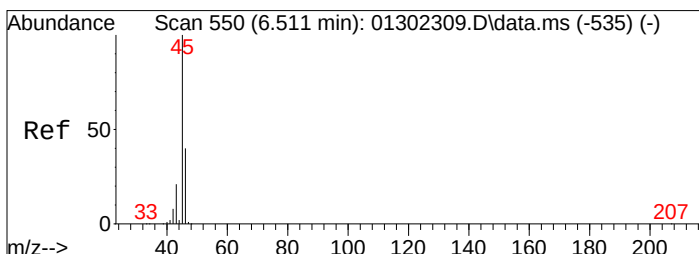
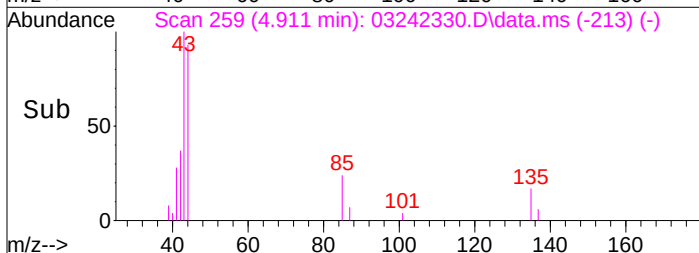
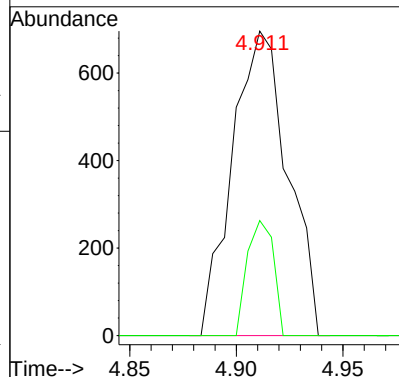
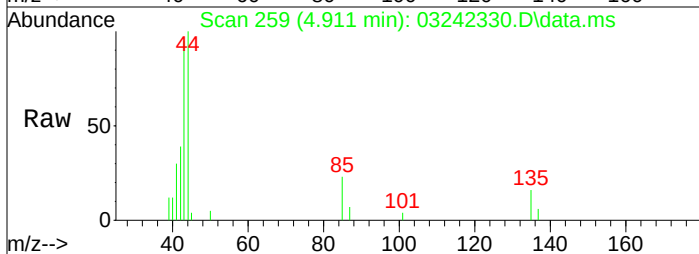
Tgt Ion:	50	Resp:	5508
Ion Ratio	Lower	Upper	
50	100		
52	29.3	12.2	52.2





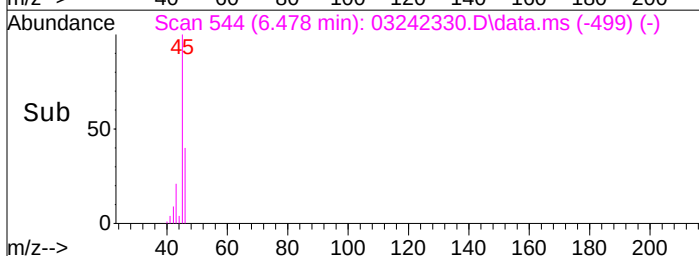
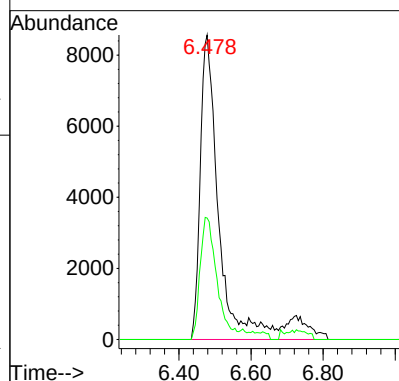
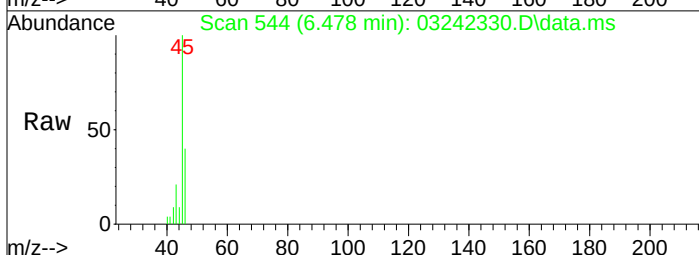
#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.08 ng
 RT: 4.91 min Scan# 259
 Delta R.T. 0.006 min
 Lab File: 03242330.D
 Acq: 24 Mar 2023 23:06

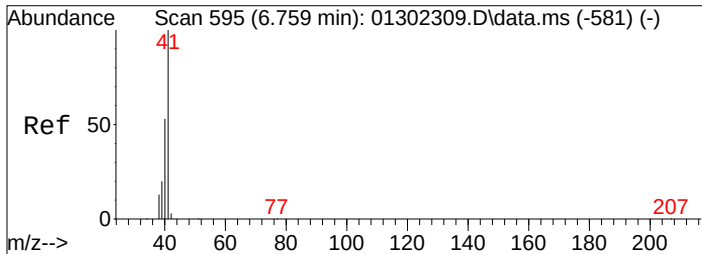
Tgt Ion: 135 Resp: 1263
 Ion Ratio Lower Upper
 135 100
 137 17.8 12.0 52.0



#10
 Ethanol
 Concen: 1.72 ng
 RT: 6.48 min Scan# 544
 Delta R.T. 0.000 min
 Lab File: 03242330.D
 Acq: 24 Mar 2023 23:06

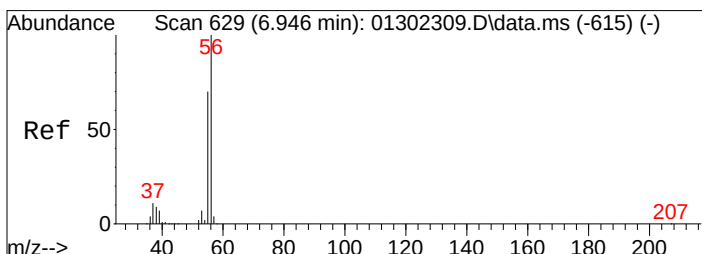
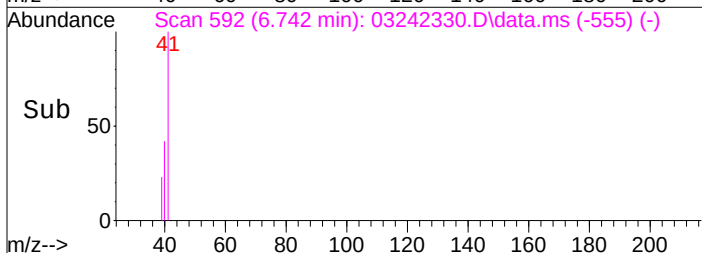
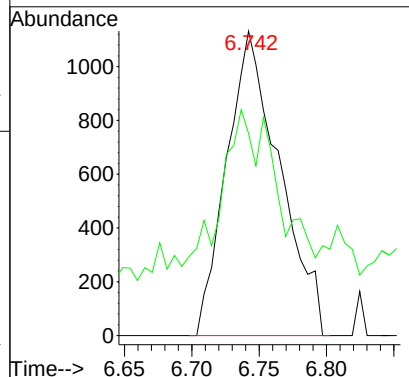
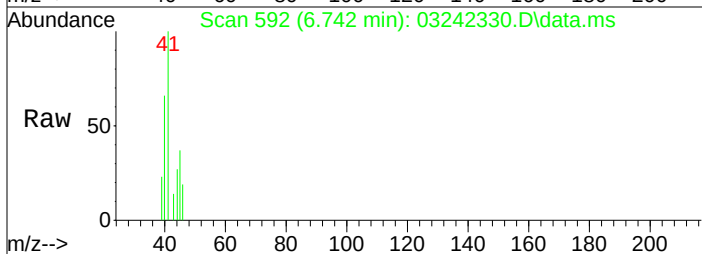
Tgt Ion: 45 Resp: 32692
 Ion Ratio Lower Upper
 45 100
 46 37.1 20.5 60.5





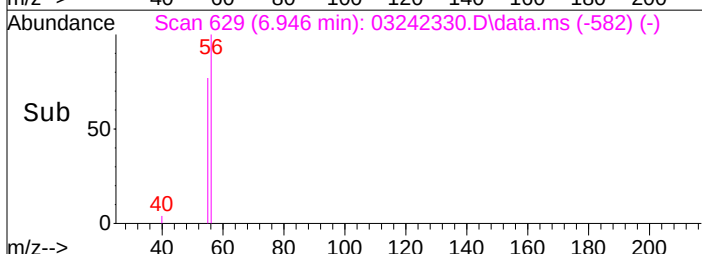
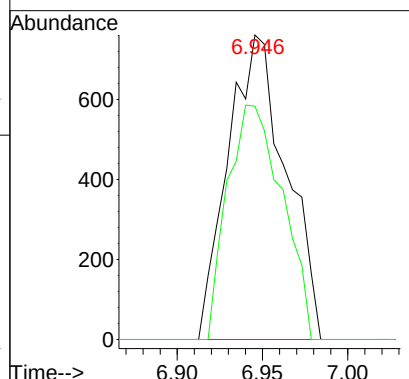
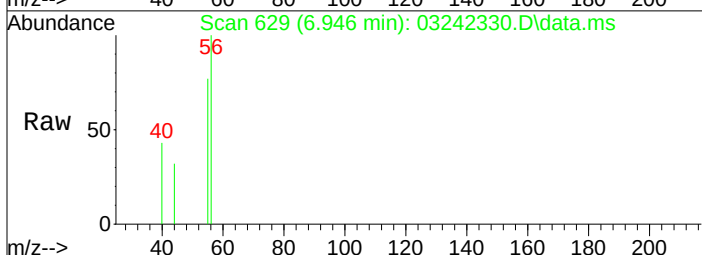
#11
Acetonitrile
Concen: 0.06 ng
RT: 6.74 min Scan# 592
Delta R.T. 0.005 min
Lab File: 03242330.D
Acq: 24 Mar 2023 23:06

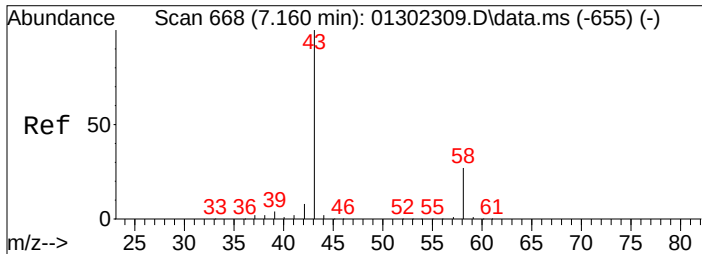
Tgt Ion: 41 Resp: 3088
Ion Ratio Lower Upper
41 100
40 71.4 32.4 72.4



#12
Acrolein
Concen: 0.13 ng
RT: 6.95 min Scan# 629
Delta R.T. 0.011 min
Lab File: 03242330.D
Acq: 24 Mar 2023 23:06

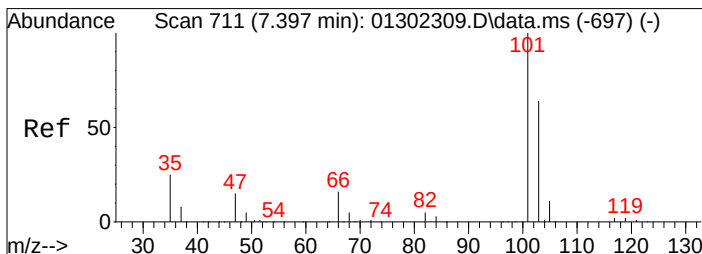
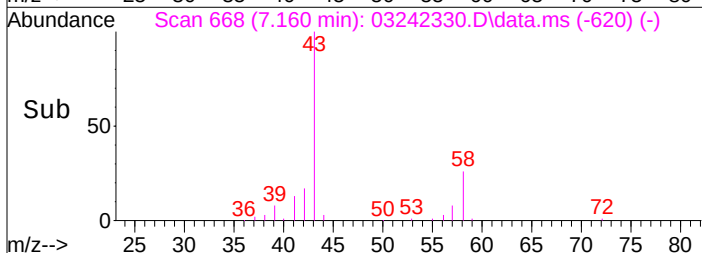
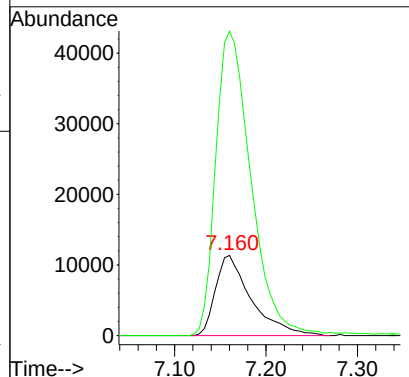
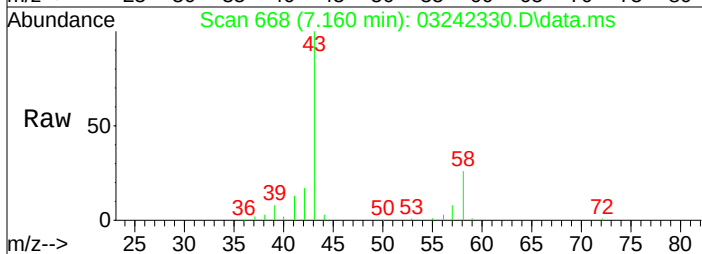
Tgt Ion: 56 Resp: 1798
Ion Ratio Lower Upper
56 100
55 72.7 49.9 89.9





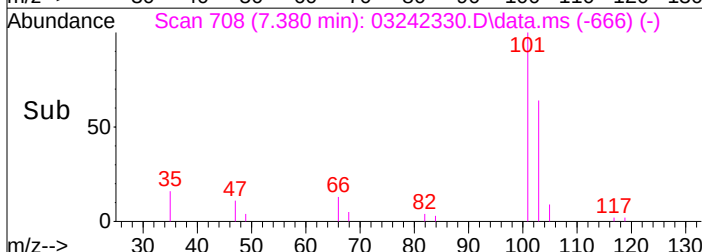
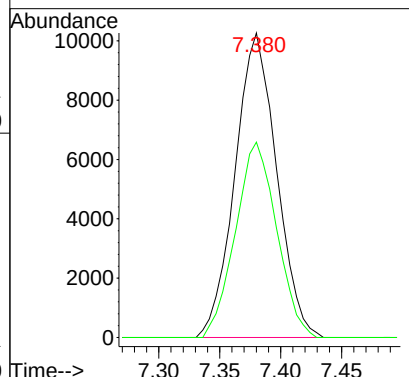
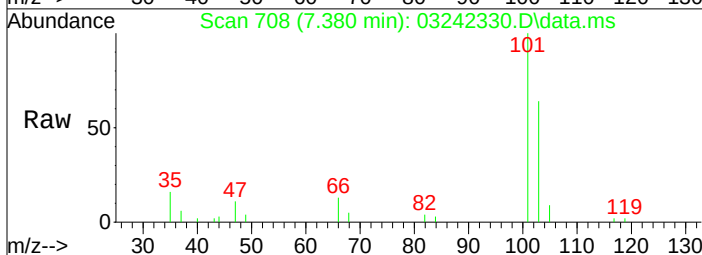
#13
Acetone
Concen: 2.13 ng
RT: 7.16 min Scan# 668
Delta R.T. 0.016 min
Lab File: 03242330.D
Acq: 24 Mar 2023 23:06

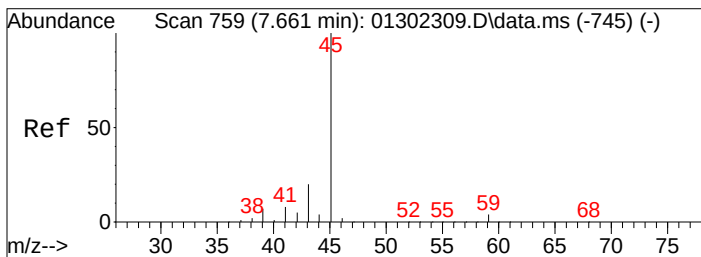
Tgt Ion	Ratio	Lower	Upper
58	100		
43	376.0	298.5	358.5#



#14
Trichlorofluoromethane
Concen: 0.89 ng
RT: 7.38 min Scan# 708
Delta R.T. -0.016 min
Lab File: 03242330.D
Acq: 24 Mar 2023 23:06

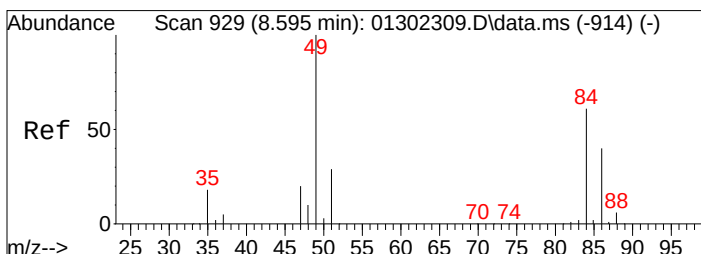
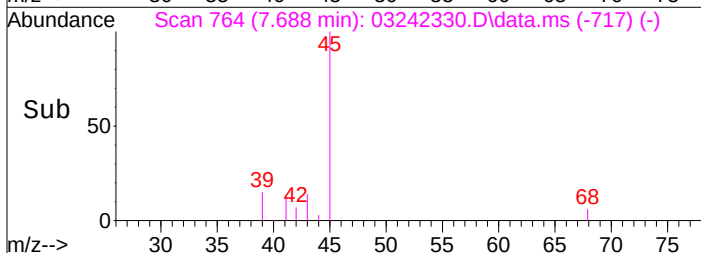
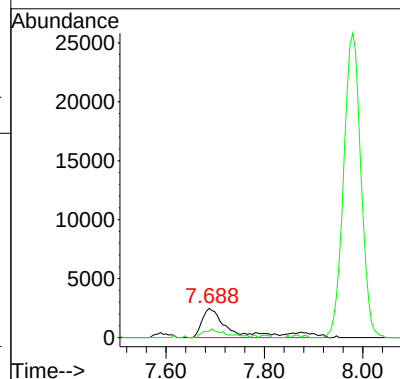
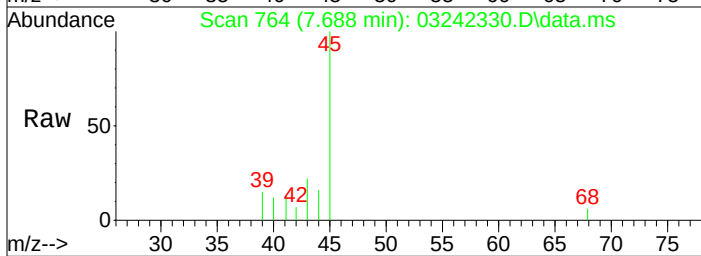
Tgt Ion	Ratio	Lower	Upper
101	100		
103	63.6	44.8	84.8





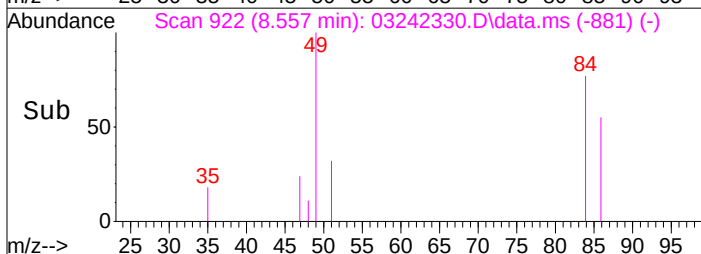
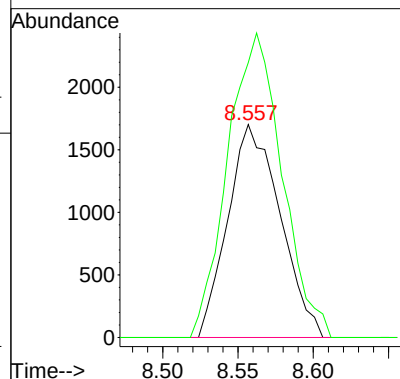
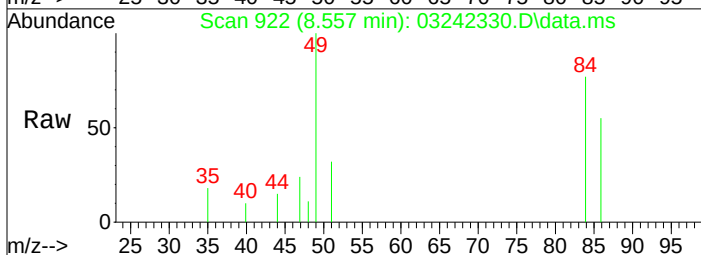
#15
2-Propanol (Isopropanol)
Concen: 0.20 ng
RT: 7.69 min Scan# 764
Delta R.T. 0.008 min
Lab File: 03242330.D
Acq: 24 Mar 2023 23:06

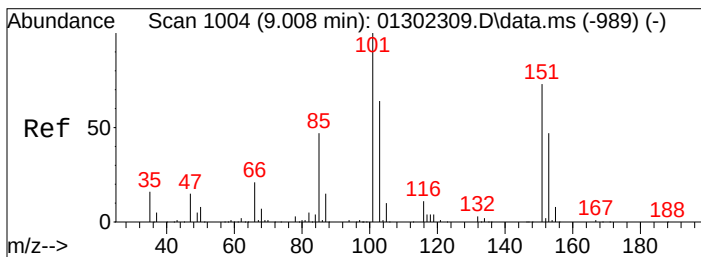
Tgt Ion: 45 Resp: 10269
Ion Ratio Lower Upper
45 100
43 21.5 0.0 37.9



#19
Methylene Chloride
Concen: 0.26 ng
RT: 8.56 min Scan# 922
Delta R.T. -0.022 min
Lab File: 03242330.D
Acq: 24 Mar 2023 23:06

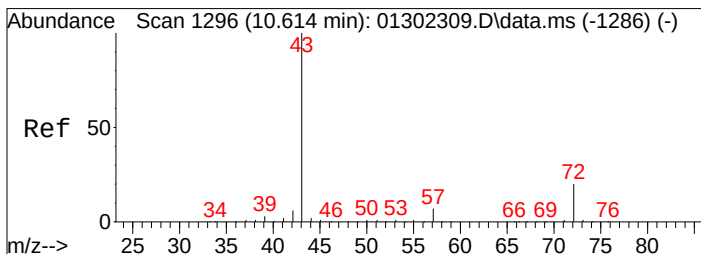
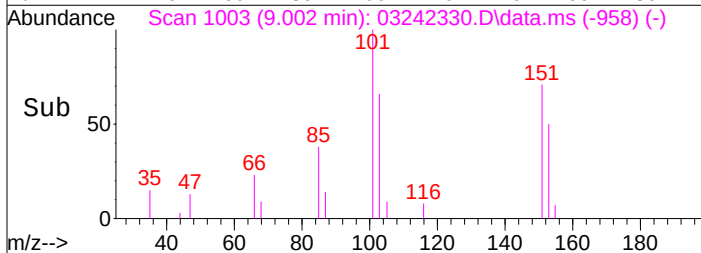
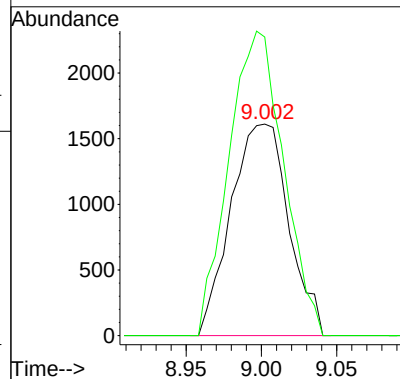
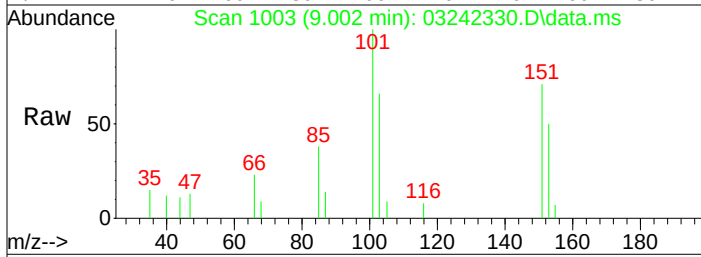
Tgt Ion: 84 Resp: 4110
Ion Ratio Lower Upper
84 100
49 148.9 135.0 185.0





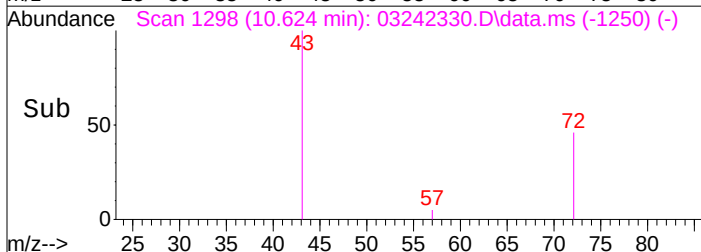
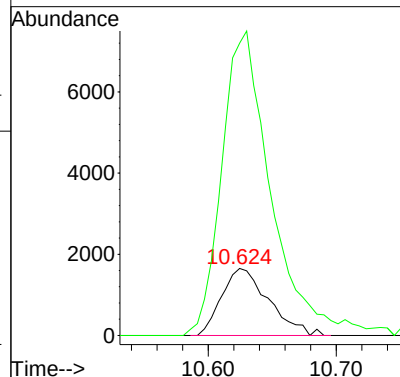
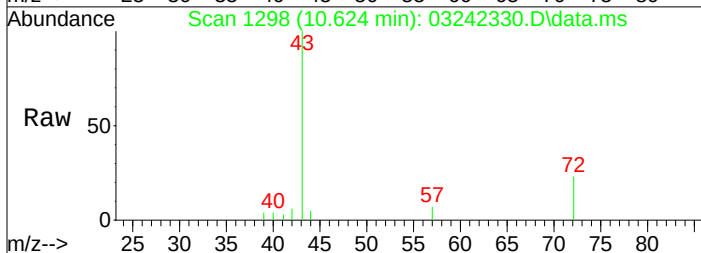
#21
 Trichlorotrifluoroethane
 Concen: 0.32 ng
 RT: 9.00 min Scan# 1003
 Delta R.T. 0.000 min
 Lab File: 03242330.D
 Acq: 24 Mar 2023 23:06

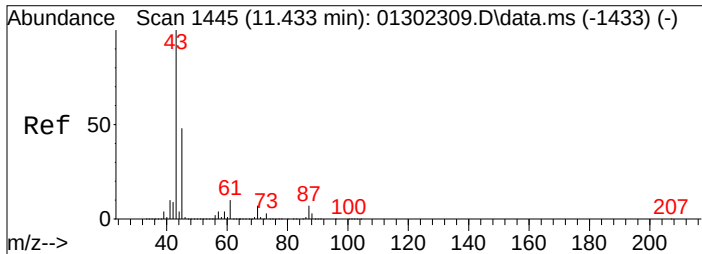
Tgt Ion: 151 Resp: 4304
 Ion Ratio Lower Upper
 151 100
 101 136.0 101.5 141.5



#27
 2-Butanone (MEK)
 Concen: 0.40 ng
 RT: 10.62 min Scan# 1298
 Delta R.T. 0.017 min
 Lab File: 03242330.D
 Acq: 24 Mar 2023 23:06

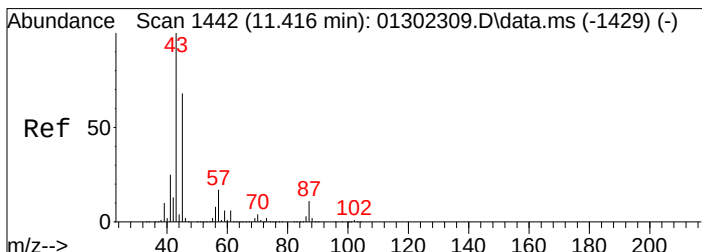
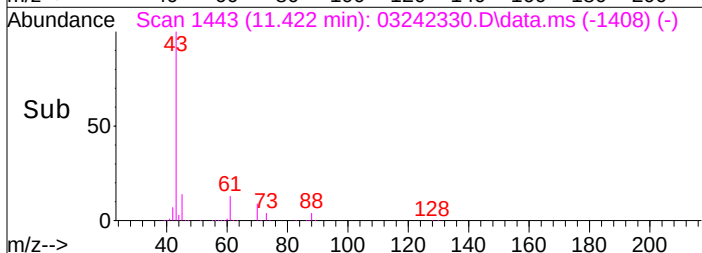
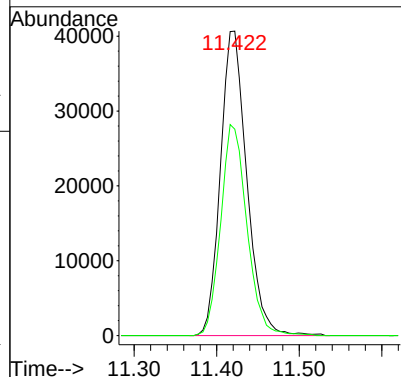
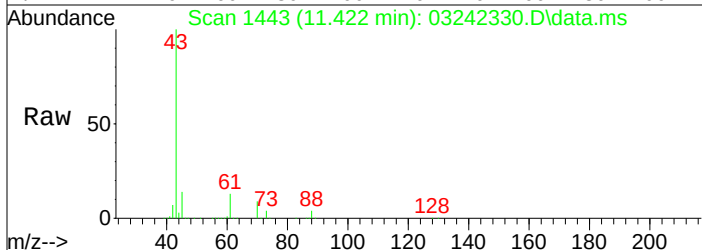
Tgt Ion: 72 Resp: 4222
 Ion Ratio Lower Upper
 72 100
 43 478.8 449.4 489.4





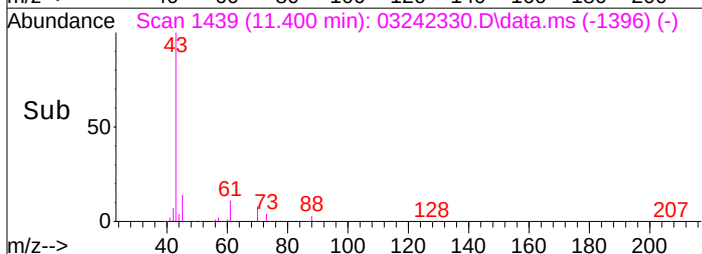
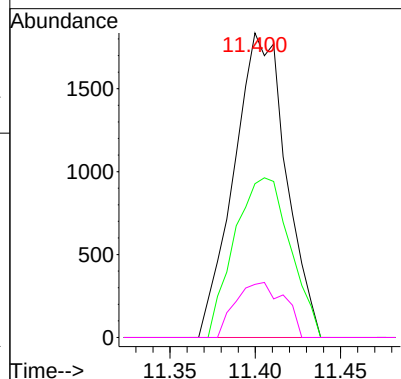
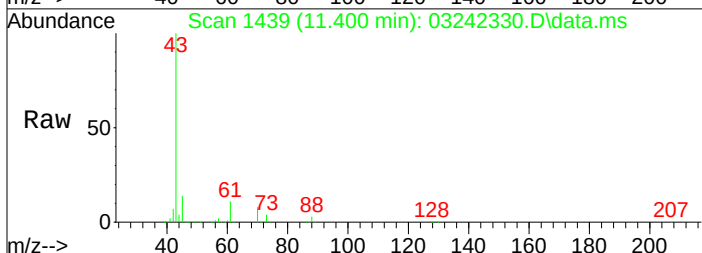
#30
Ethyl Acetate
Concen: 13.12 ng
RT: 11.42 min Scan# 1443
Delta R.T. -0.005 min
Lab File: 03242330.D
Acq: 24 Mar 2023 23:06

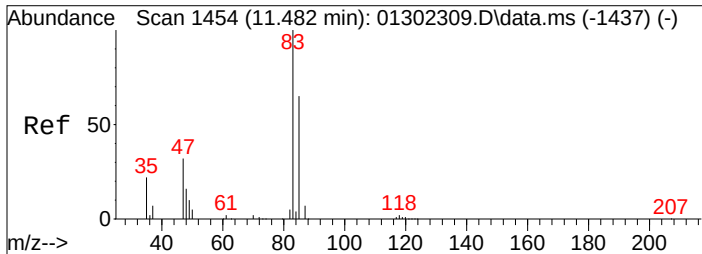
Tgt Ion: 61 Resp: 90369
Ion Ratio Lower Upper
61 100
70 68.9 52.8 92.8



#31
n-Hexane
Concen: 0.11 ng
RT: 11.40 min Scan# 1439
Delta R.T. -0.011 min
Lab File: 03242330.D
Acq: 24 Mar 2023 23:06

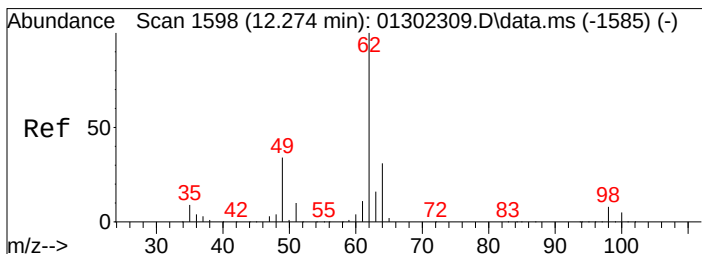
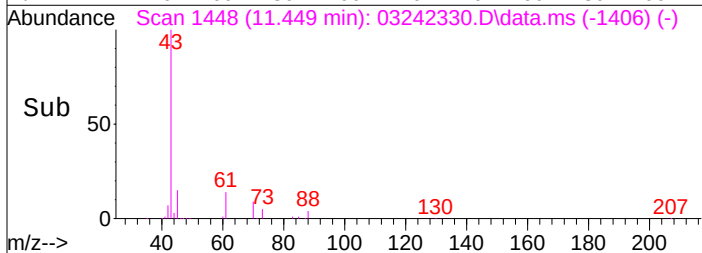
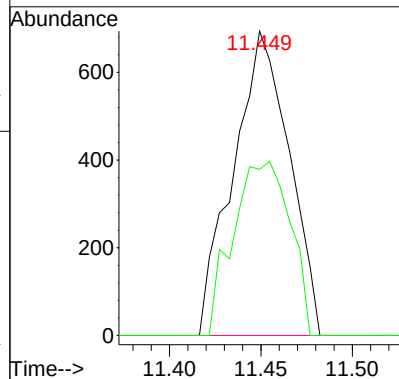
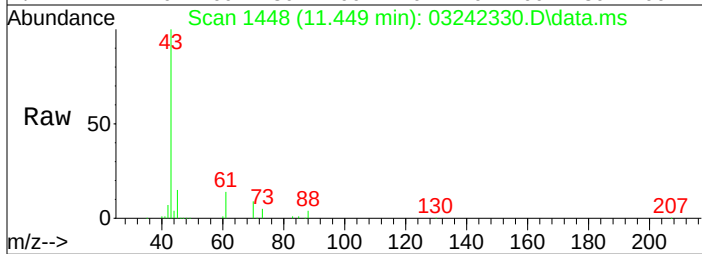
Tgt Ion: 57 Resp: 3898
Ion Ratio Lower Upper
57 100
56 56.2 39.9 59.9
86 17.0 12.3 18.5





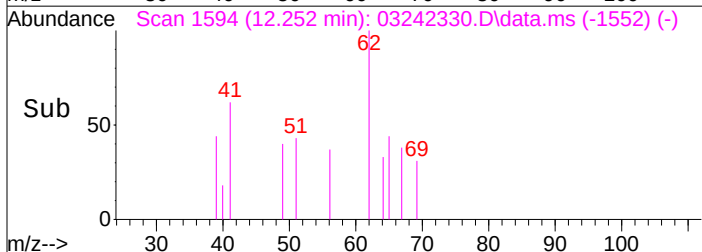
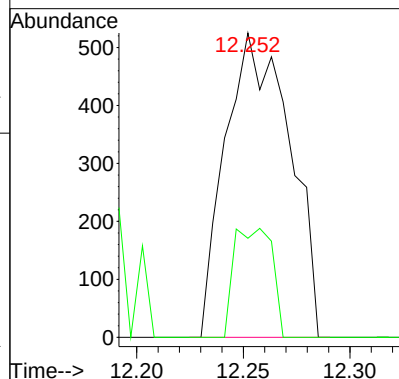
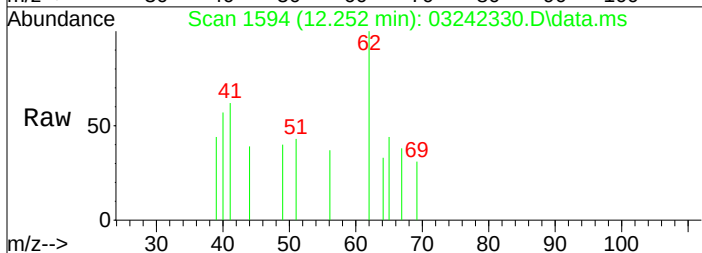
#32
Chloroform
Concen: 0.06 ng
RT: 11.45 min Scan# 1448
Delta R.T. -0.016 min
Lab File: 03242330.D
Acq: 24 Mar 2023 23:06

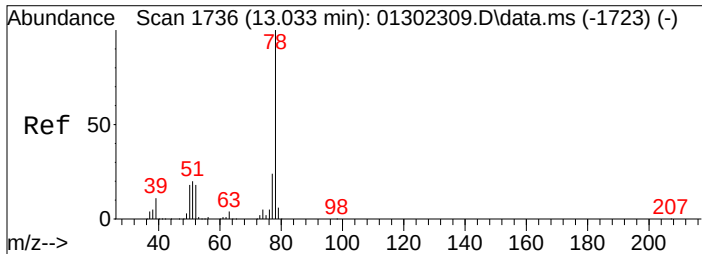
Tgt Ion: 83 Resp: 1477
Ion Ratio Lower Upper
83 100
85 58.5 45.5 85.5



#36
1,2-Dichloroethane
Concen: 0.05 ng
RT: 12.25 min Scan# 1594
Delta R.T. -0.016 min
Lab File: 03242330.D
Acq: 24 Mar 2023 23:06

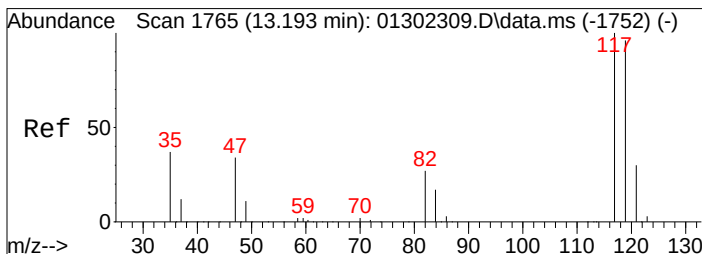
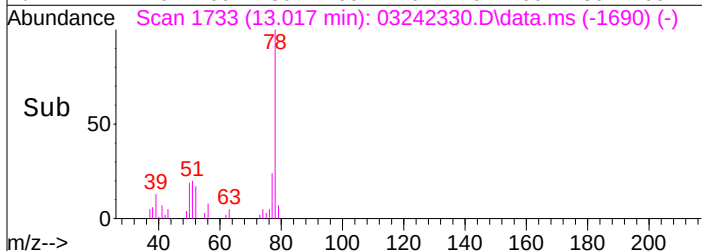
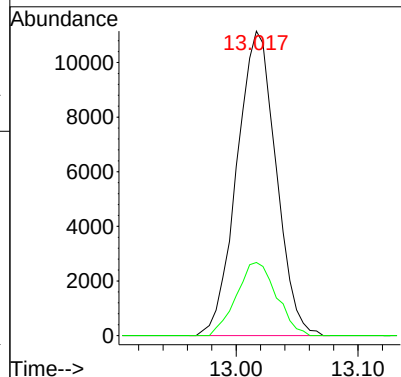
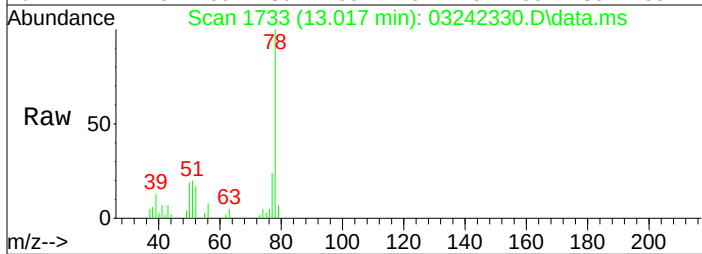
Tgt Ion: 62 Resp: 1100
Ion Ratio Lower Upper
62 100
64 21.4 12.5 52.5





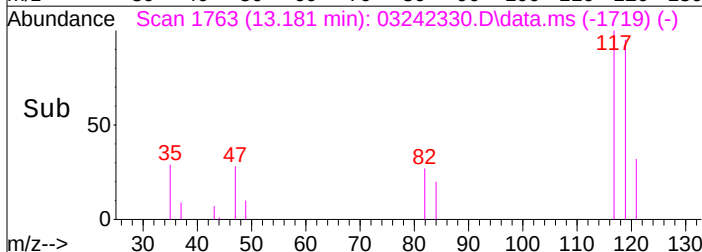
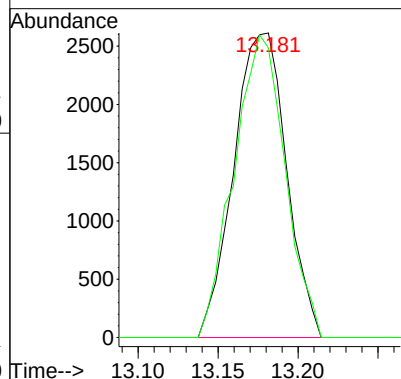
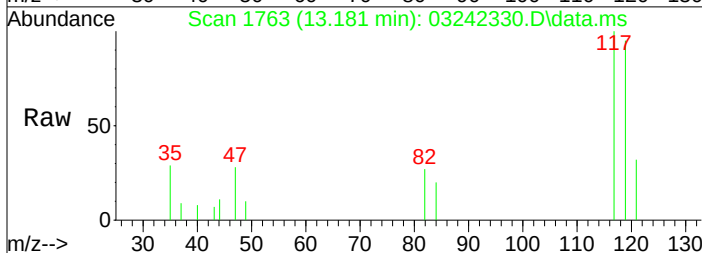
#41
Benzene
Concen: 0.39 ng
RT: 13.02 min Scan# 1733
Delta R.T. -0.011 min
Lab File: 03242330.D
Acq: 24 Mar 2023 23:06

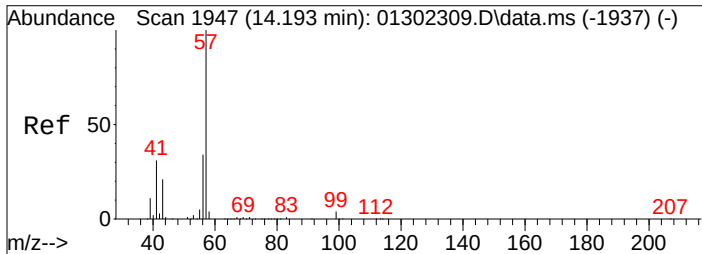
Tgt Ion: 78 Resp: 24929
Ion Ratio Lower Upper
78 100
77 24.5 3.3 43.3



#42
Carbon Tetrachloride
Concen: 0.29 ng
RT: 13.18 min Scan# 1763
Delta R.T. -0.005 min
Lab File: 03242330.D
Acq: 24 Mar 2023 23:06

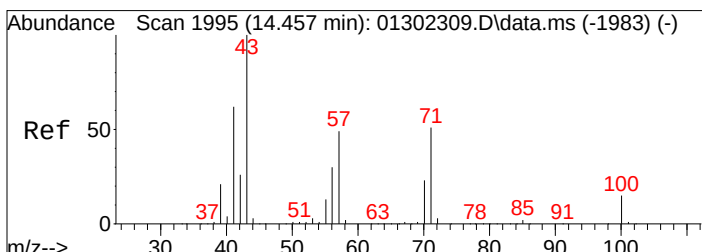
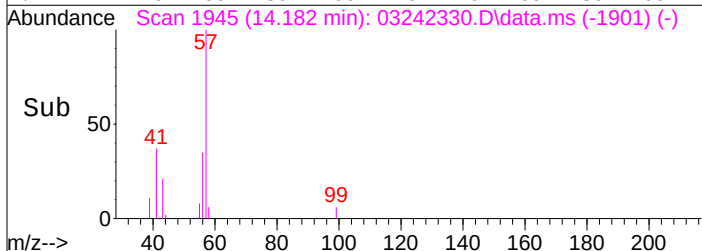
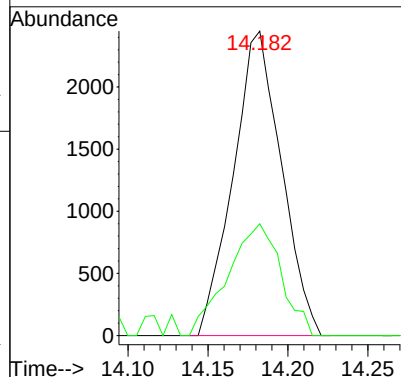
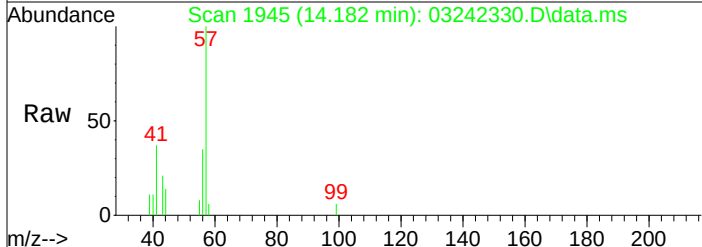
Tgt Ion: 117 Resp: 6006
Ion Ratio Lower Upper
117 100
119 96.3 76.2 116.2





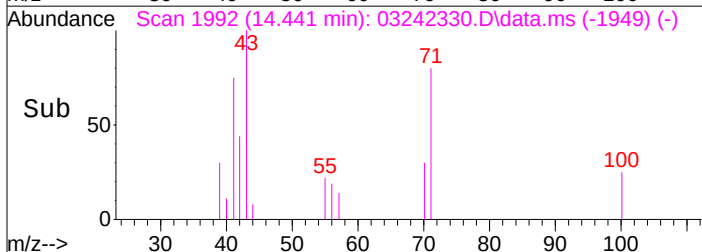
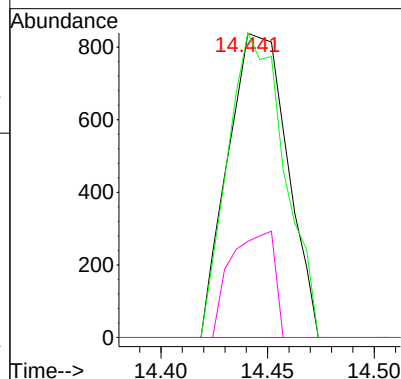
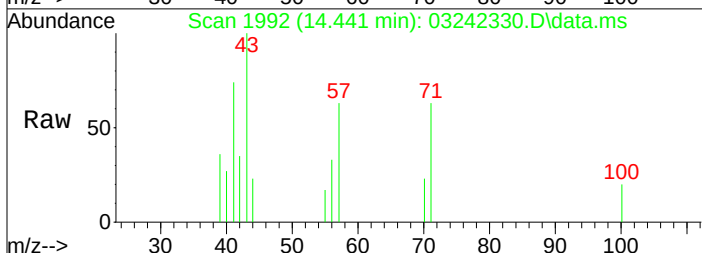
#49
 2,2,4-Trimethylpentane (Isooctane)
 Concen: 0.06 ng
 RT: 14.18 min Scan# 1945
 Delta R.T. -0.005 min
 Lab File: 03242330.D
 Acq: 24 Mar 2023 23:06

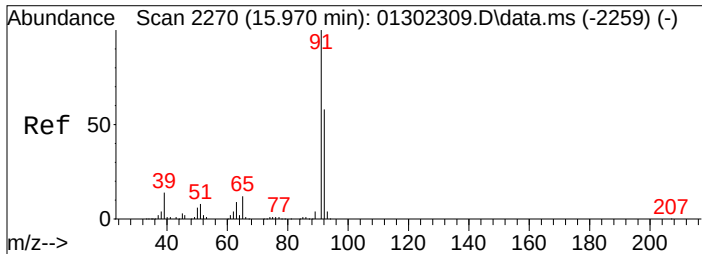
Tgt Ion:	57	Resp:	5126
Ion Ratio	Lower	Upper	
57	100		
41	40.6	5.8	45.8



#51
 n-Heptane
 Concen: 0.09 ng
 RT: 14.44 min Scan# 1992
 Delta R.T. -0.011 min
 Lab File: 03242330.D
 Acq: 24 Mar 2023 23:06

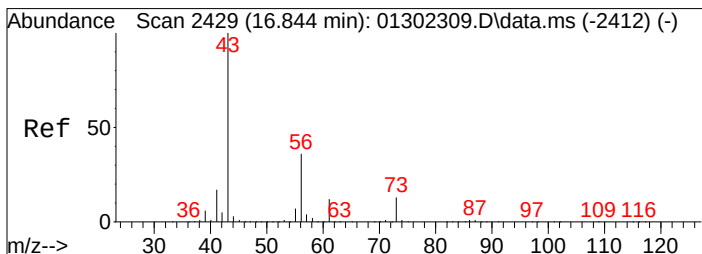
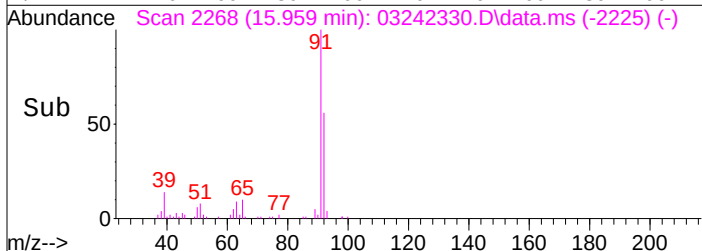
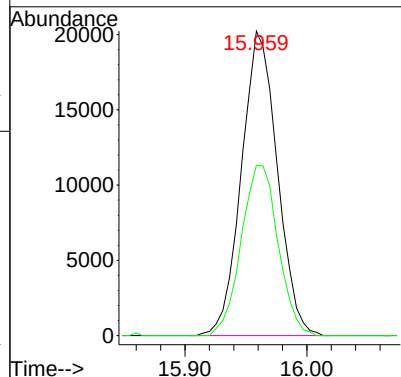
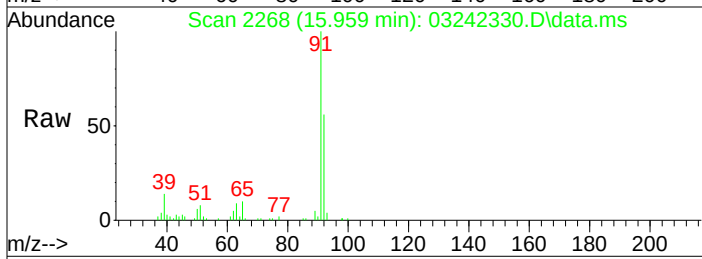
Tgt Ion:	71	Resp:	1619
Ion Ratio	Lower	Upper	
71	100		
57	96.3	81.4	121.4
100	25.9	11.8	51.8





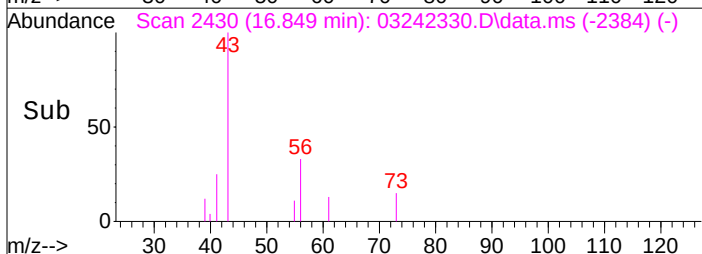
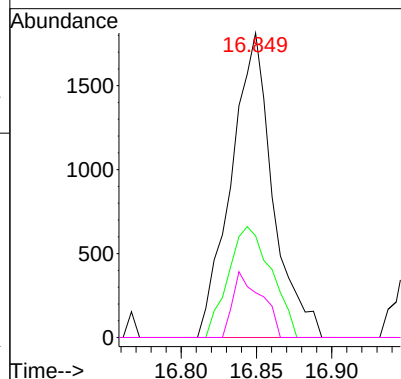
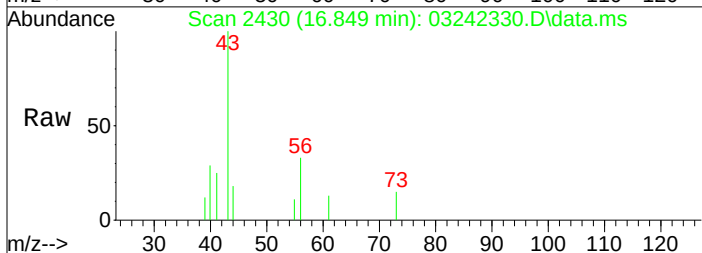
#58
Toluene
Concen: 0.54 ng
RT: 15.96 min Scan# 2268
Delta R.T. -0.011 min
Lab File: 03242330.D
Acq: 24 Mar 2023 23:06

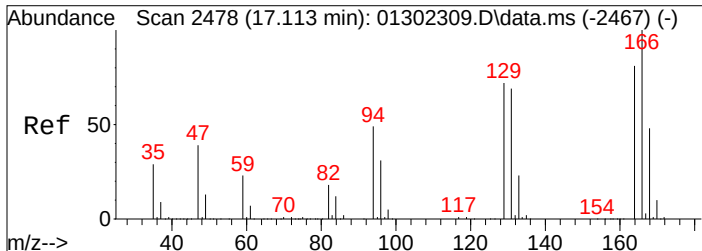
Tgt Ion: 91 Resp: 41363
Ion Ratio Lower Upper
91 100
92 57.5 39.8 79.8



#62
n-Butyl Acetate
Concen: 0.08 ng
RT: 16.85 min Scan# 2430
Delta R.T. 0.005 min
Lab File: 03242330.D
Acq: 24 Mar 2023 23:06

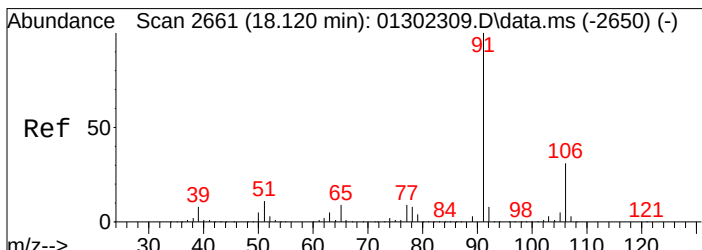
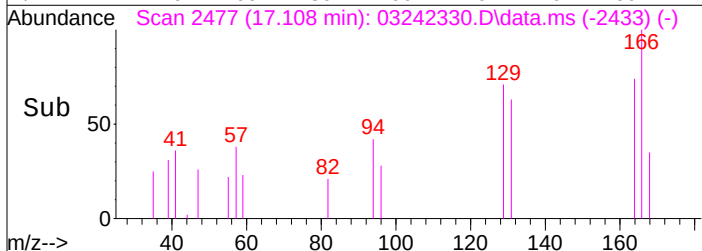
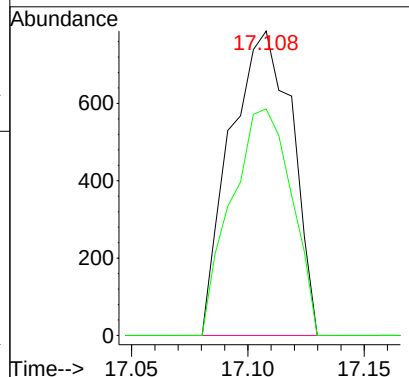
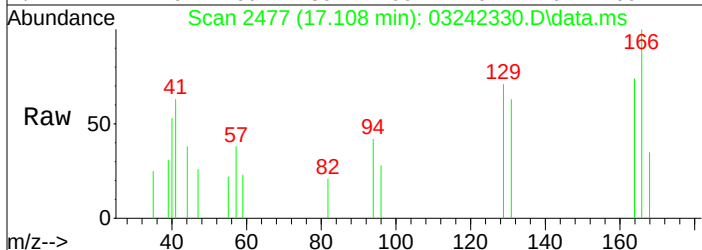
Tgt Ion: 43 Resp: 3492
Ion Ratio Lower Upper
43 100
56 37.6 21.0 61.0
73 14.7 0.0 34.3





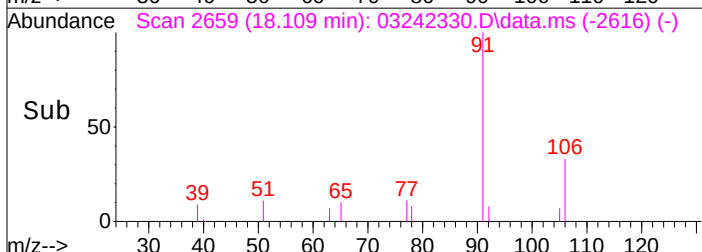
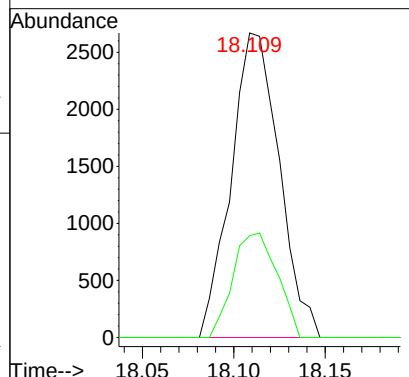
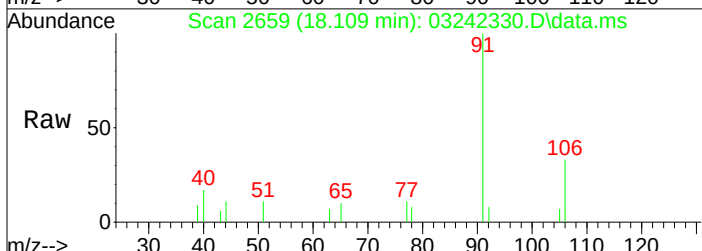
#64
Tetrachloroethene
Concen: 0.07 ng
RT: 17.11 min Scan# 2477
Delta R.T. -0.005 min
Lab File: 03242330.D
Acq: 24 Mar 2023 23:06

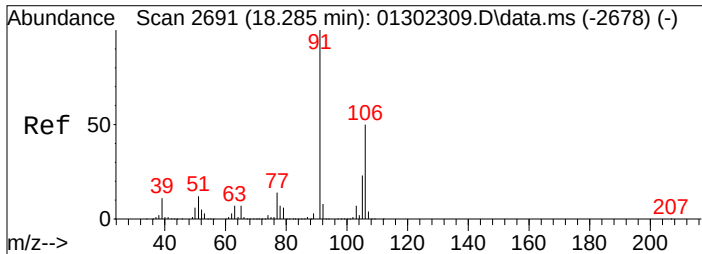
Tgt Ion: 166 Resp: 1454
Ion Ratio Lower Upper
166 100
164 72.5 58.7 98.7



#66
Ethylbenzene
Concen: 0.06 ng
RT: 18.11 min Scan# 2659
Delta R.T. -0.011 min
Lab File: 03242330.D
Acq: 24 Mar 2023 23:06

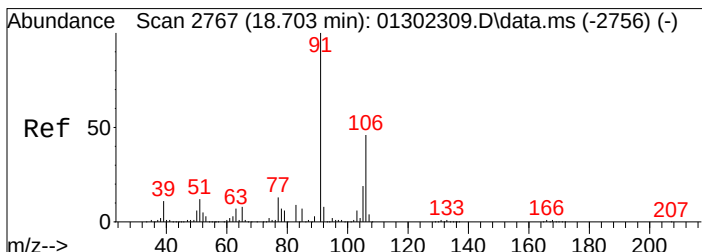
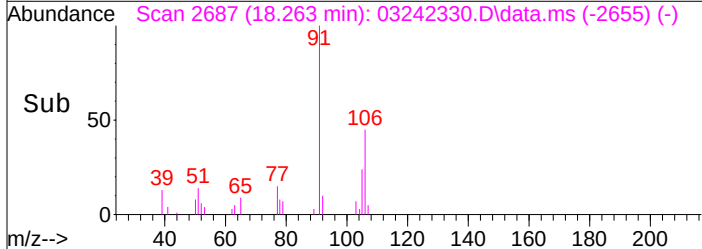
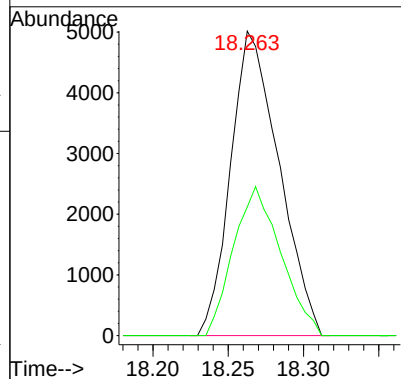
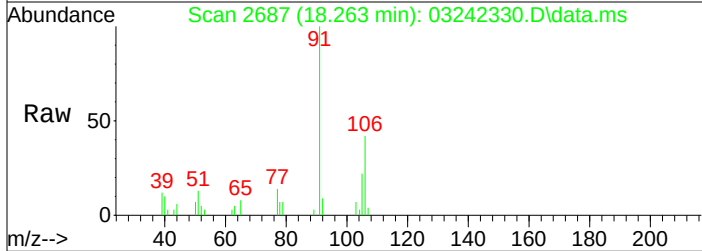
Tgt Ion: 91 Resp: 4895
Ion Ratio Lower Upper
91 100
106 31.5 11.5 51.5





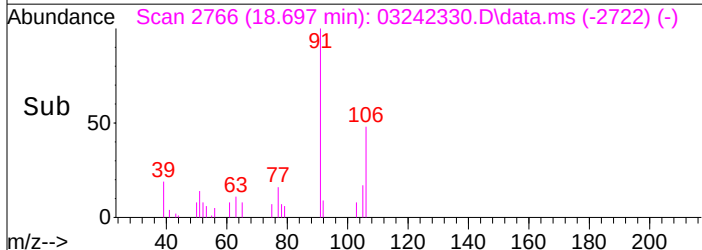
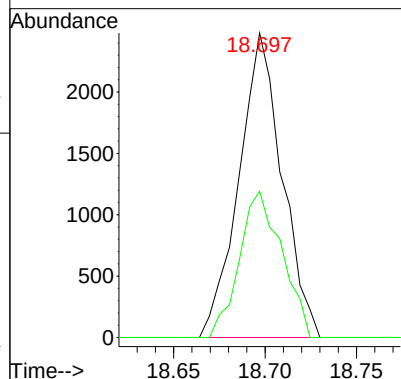
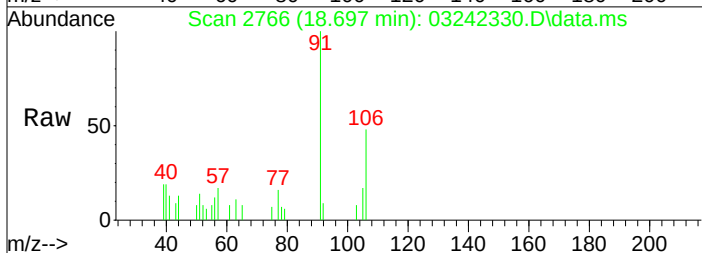
#67
 m- & p-Xylenes
 Concen: 0.16 ng
 RT: 18.26 min Scan# 2687
 Delta R.T. -0.022 min
 Lab File: 03242330.D
 Acq: 24 Mar 2023 23:06

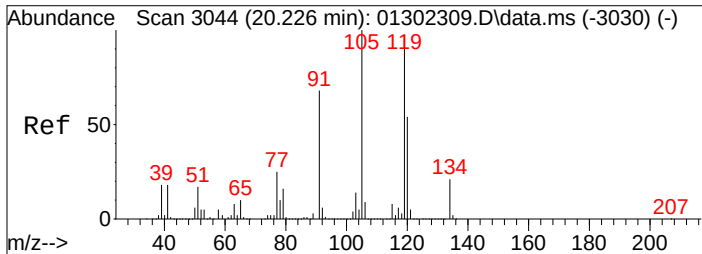
Tgt Ion:	91	Resp:	11183
Ion Ratio	Lower	Upper	
91	100		
106	47.9	29.2	69.2



#70
 o-Xylene
 Concen: 0.06 ng
 RT: 18.70 min Scan# 2766
 Delta R.T. -0.005 min
 Lab File: 03242330.D
 Acq: 24 Mar 2023 23:06

Tgt Ion:	91	Resp:	4072
Ion Ratio	Lower	Upper	
91	100		
106	47.2	27.3	67.3

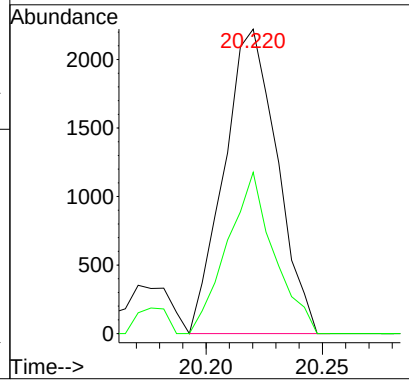
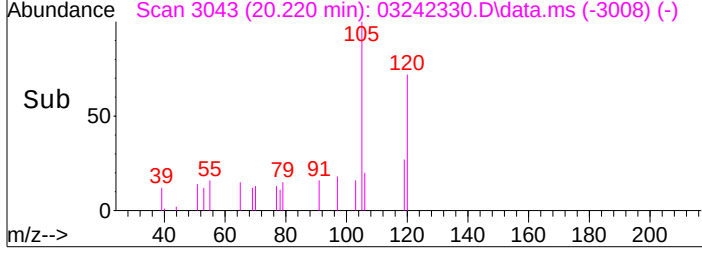
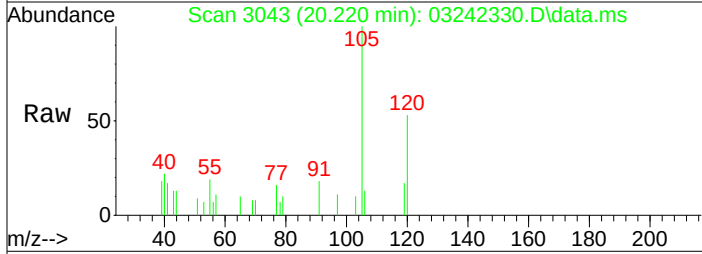




#82
 1,2,4-Trimethylbenzene
 Concen: 0.05 ng
 RT: 20.22 min Scan# 3043
 Delta R.T. -0.005 min
 Lab File: 03242330.D
 Acq: 24 Mar 2023 23:06

Tgt Ion: 105 Resp: 3526

Ion	Ratio	Lower	Upper
105	100		
120	46.6	37.2	77.2



Data File : I:\MS16\DATA\2023_03\24\03242330.D
 Acq On : 24 Mar 2023 23:06
 Sample : P2301250-052 (1000mL)
 Misc : S35-01312301

Vial: 14
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 09:53:01 2023
 Quant Method : I:\MS16\METHODS\C16122022.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Dec 21 05:02:49 2022
 Response via : Initial Calibration
 DataAcq Meth: T015B.M

3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.28	130	197382	12.500	ng	-0.02
16) 1,4-Difluorobenzene (C_2)	13.41	114	908063	12.500	ng	-0.01
19) Chlorobenzene-d5 (C_3)	17.72	54	199227	12.500	ng	0.00

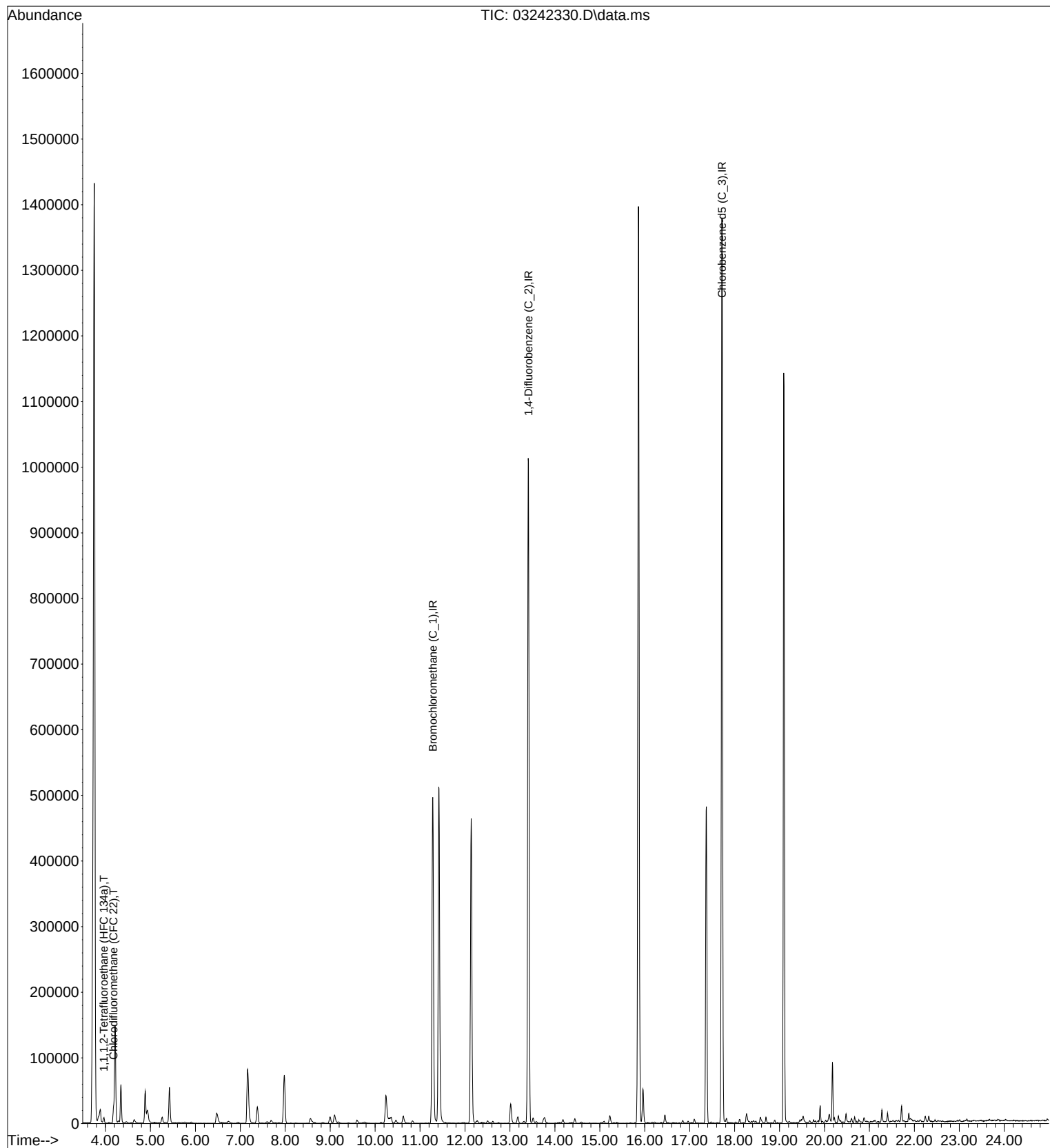
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.87	85	602	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.97	83	4926	0.315	ng	87
4) 1,1-Difluoroethane	4.08	65	502	N.D.		
5) Chlorodifluoromethane ...	4.18	67	2231	0.457	ng	84
6) 1-Chloro-1,1-Difluoroe...	4.64	65	2336	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	8.60	43	4723	N.D.		
12) 2-Methylpentane	10.37	71	1842	N.D.		
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	13.18	84	1069	N.D.		
17) 2,3-Dimethylpentane	13.59	56	1167	N.D.		
18) Dibromomethane	13.82	174	107	N.D.		
20) Methyl Cyclohexane	15.09	55	1014	N.D.		
21) 1,3-Dichloropropane	15.96	76	106	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	0.00	91	0	N.D.		
24) 1,2,3-Trichloropropane	18.70	75	60	N.D.		
25) Bromobenzene	0.00	77	0	N.D.		
26) 2-Chlorotoluene	19.67	91	1301	N.D.		
27) 4-Chlorotoluene	19.67	91	1301	N.D.		
28) Indane	20.77	117	237	N.D.		
29) Indene	0.00	115	0	N.D.		
30) 1,2,4,5-Tetramethylben...	21.61	119	792	N.D.		
31) 1,2,3,4-Tetramethylben...	21.65	119	1331	N.D.		
32) 1,2,3,5-Tetramethylben...	21.99	119	743	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\24\03242330.D
Acq On : 24 Mar 2023 23:06
Sample : P2301250-052 (1000mL)
Misc : S35-01312301

Vial: 14
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 09:53:01 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG34-3

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-053

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02522

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.67 Final Pressure (psig): 5.55

Container Dilution Factor: 1.55

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.9	0.82	0.13	0.58	0.17	0.027	
74-87-3	Chloromethane	0.35	0.33	0.13	0.17	0.16	0.065	
75-01-4	Vinyl Chloride	ND	0.17	0.088	ND	0.067	0.035	
74-83-9	Bromomethane	ND	0.33	0.11	ND	0.084	0.030	
75-00-3	Chloroethane	ND	0.33	0.10	ND	0.12	0.039	
67-64-1	Acetone	4.0	8.2	1.9	1.7	3.4	0.78	J
75-69-4	Trichlorofluoromethane	1.4	0.81	0.13	0.25	0.14	0.022	
75-35-4	1,1-Dichloroethene	ND	0.17	0.11	ND	0.043	0.029	
75-09-2	Methylene Chloride	0.40	0.82	0.23	0.11	0.24	0.067	J
76-13-1	Trichlorotrifluoroethane	0.51	0.84	0.12	0.067	0.11	0.015	J
75-15-0	Carbon Disulfide	ND	1.7	0.25	ND	0.53	0.080	
156-60-5	trans-1,2-Dichloroethene	ND	0.17	0.11	ND	0.043	0.029	
75-34-3	1,1-Dichloroethane	ND	0.17	0.12	ND	0.042	0.030	
1634-04-4	Methyl tert-Butyl Ether	ND	0.84	0.098	ND	0.23	0.027	
78-93-3	2-Butanone (MEK)	0.71	1.6	0.17	0.24	0.55	0.058	J
156-59-2	cis-1,2-Dichloroethene	ND	0.17	0.12	ND	0.043	0.029	
67-66-3	Chloroform	0.29	0.17	0.11	0.059	0.035	0.023	
107-06-2	1,2-Dichloroethane	ND	0.17	0.091	ND	0.042	0.023	
71-55-6	1,1,1-Trichloroethane	ND	0.17	0.10	ND	0.031	0.019	
71-43-2	Benzene	1.2	0.17	0.12	0.37	0.053	0.037	
56-23-5	Carbon Tetrachloride	0.44	0.17	0.11	0.069	0.027	0.018	
110-82-7	Cyclohexane	ND	1.6	0.23	ND	0.47	0.068	
78-87-5	1,2-Dichloropropane	ND	0.17	0.10	ND	0.037	0.022	
75-27-4	Bromodichloromethane	ND	0.17	0.12	ND	0.025	0.018	
79-01-6	Trichloroethene	1.9	0.17	0.11	0.35	0.032	0.021	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG34-3

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-053

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02522

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.67 Final Pressure (psig): 5.55

Container Dilution Factor: 1.55

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.84	0.13	ND	0.18	0.028	
108-10-1	4-Methyl-2-pentanone	ND	1.7	0.11	ND	0.42	0.028	
10061-02-6	trans-1,3-Dichloropropene	ND	0.79	0.17	ND	0.17	0.038	
79-00-5	1,1,2-Trichloroethane	ND	0.17	0.084	ND	0.031	0.015	
108-88-3	Toluene	0.60	0.82	0.10	0.16	0.22	0.027	J
591-78-6	2-Hexanone	ND	1.7	0.10	ND	0.42	0.025	
124-48-1	Dibromochloromethane	ND	0.17	0.11	ND	0.020	0.013	
106-93-4	1,2-Dibromoethane	ND	0.17	0.096	ND	0.022	0.013	
127-18-4	Tetrachloroethene	0.29	0.17	0.11	0.042	0.025	0.016	
108-90-7	Chlorobenzene	ND	0.82	0.11	ND	0.18	0.024	
100-41-4	Ethylbenzene	ND	0.82	0.12	ND	0.19	0.027	
179601-23-1	m,p-Xylenes	ND	1.7	0.22	ND	0.39	0.050	
75-25-2	Bromoform	ND	0.84	0.17	ND	0.081	0.016	
100-42-5	Styrene	ND	0.82	0.13	ND	0.19	0.031	
95-47-6	o-Xylene	ND	0.82	0.12	ND	0.19	0.027	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.17	0.11	ND	0.025	0.017	
98-82-8	Cumene	ND	0.84	0.12	ND	0.17	0.024	
541-73-1	1,3-Dichlorobenzene	ND	0.82	0.12	ND	0.14	0.021	
106-46-7	1,4-Dichlorobenzene	ND	0.82	0.13	ND	0.14	0.021	
95-50-1	1,2-Dichlorobenzene	ND	0.84	0.12	ND	0.14	0.020	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.7	0.16	ND	0.18	0.016	
120-82-1	1,2,4-Trichlorobenzene	ND	1.7	0.20	ND	0.23	0.027	
79-20-9	Methyl Acetate	ND	0.78	0.37	ND	0.26	0.12	X
108-87-2	Methylcyclohexane	ND	0.78	0.40	ND	0.19	0.10	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS16\DATA\2023_03\24\03242331.D
 Acq On : 24 Mar 2023 23:40
 Sample : P2301250-053 (1000mL)
 Misc : S35-01312301

Vial: 1
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 09:24:00 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	193534	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	900178	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.72	54	196963	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	350749	13.628	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	109.04%	
57) Toluene-d8 (SS2)	15.86	98	1029686	11.941	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	95.52%	
73) Bromofluorobenzene (SS3)	19.10	174	303388	11.281	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	90.24%	

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	4.34	85	53410	1.846	ng	99
4) Chloromethane	4.64	50	6027	0.223	ng	95
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	1234	0.076	ng	72
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.35	54	372	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.47	45	25161	1.351	ng	91
11) Acetonitrile	6.75	41	3399	0.073	ng	# 68
12) Acrolein	6.95	56	1486	0.113	ng	99
13) Acetone	7.15	58	36843	2.587	ng	# 69
14) Trichlorofluoromethane	7.38	101	23777	0.891	ng	99
15) 2-Propanol (Isopropanol)	7.69	45	10040	0.202	ng	92
16) Acrylonitrile	7.99	53	680	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	8.61	59	1238	N.D.		
19) Methylene Chloride	8.56	84	4017	0.255	ng	89
20) 3-Chloro-1-propene (Al...	8.65	41	342	N.D.		
21) Trichlorotrifluoroethane	9.00	151	4382	0.330	ng	93
22) Carbon Disulfide	8.85	76	1869	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	10.62	72	4732	0.458	ng	# 92
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	11.42	61	31518	4.667	ng	96
31) n-Hexane	11.40	57	7081	0.209	ng	98
32) Chloroform	11.45	83	4812	0.186	ng	95
34) Tetrahydrofuran (THF)	11.93	72	399	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	12.26	62	1152	0.055	ng	# 59
38) 1,1,1-Trichloroethane	12.54	97	364	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.02	78	48373	0.763	ng	99
42) Carbon Tetrachloride	13.18	117	5796	0.281	ng	92
43) Cyclohexane	13.31	84	1591	0.059	ng	98
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	14.06	83	226	N.D.		
47) Trichloroethene	14.11	130	21112	1.225	ng	98
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	14.18	57	6100	0.071	ng	75
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS16\DATA\2023_03\24\03242331.D
 Acq On : 24 Mar 2023 23:40
 Sample : P2301250-053 (1000mL)
 Misc : S35-01312301

Vial: 1
 Operator: WA
 Inst : GCMS-16

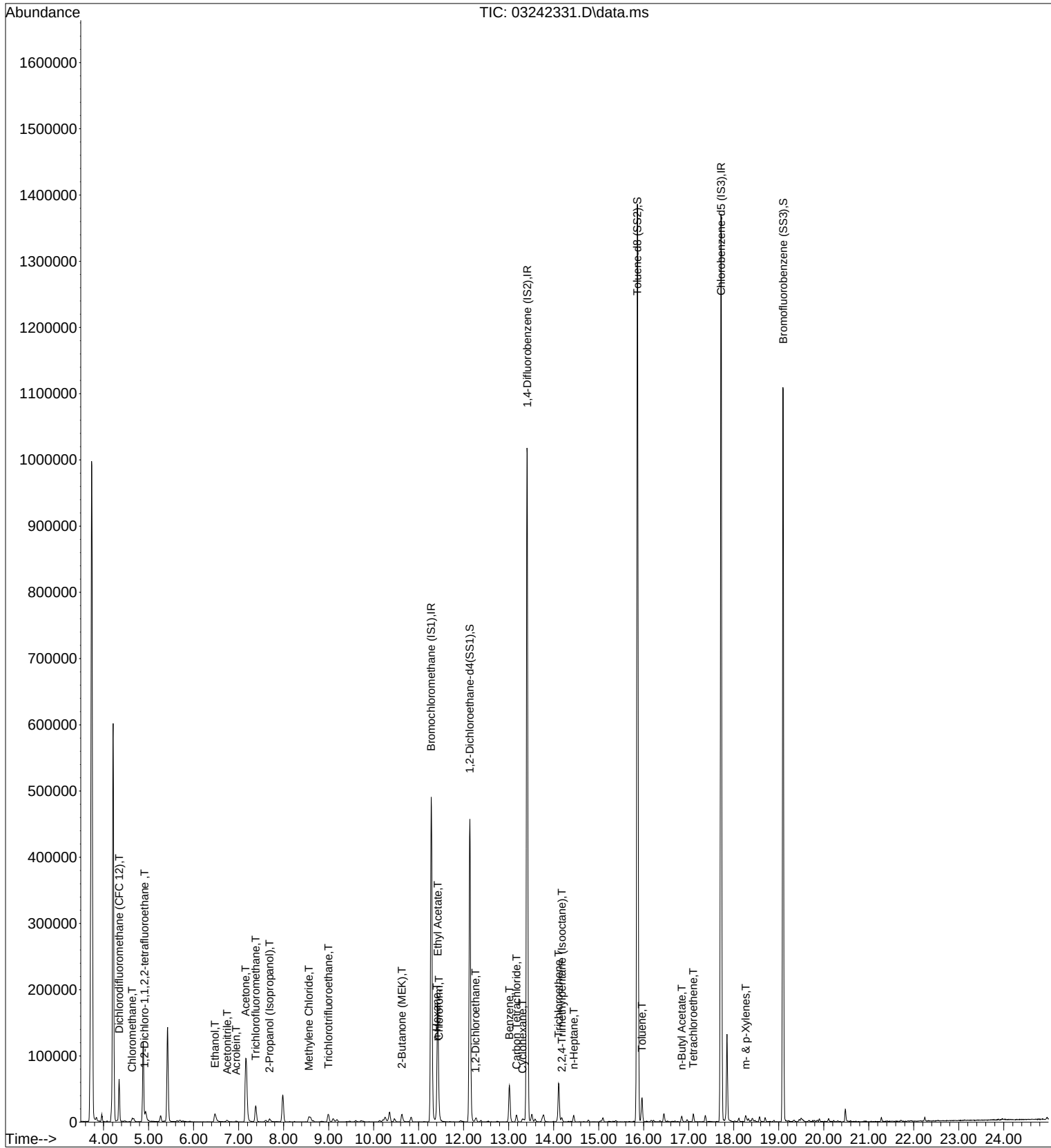
Quant Time: Mar 27 09:24:00 2023
 Quant Method : I:\MS16\METHODS\R16122022.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Dec 21 03:06:38 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.45	71	2290	0.123	ng	99
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	15.04	58	139	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.96	91	29184	0.386	ng	98
59) 2-Hexanone	0.00	43	0	N.D.	d	
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.84	43	7661	0.168	ng	96
63) n-Octane	16.97	57	560	N.D.		
64) Tetrachloroethene	17.10	166	3555	0.185	ng	96
65) Chlorobenzene	17.76	112	100	N.D.		
66) Ethylbenzene	18.11	91	4204	N.D.		
67) m- & p-Xylenes	18.27	91	7519	0.111	ng	97
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.60	104	347	N.D.		
70) o-Xylene	18.70	91	2737	N.D.		
71) n-Nonane	18.88	43	999	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	19.21	105	460	N.D.		
75) alpha-Pinene	19.57	93	545	N.D.		
76) n-Propylbenzene	19.66	91	902	N.D.		
77) 3-Ethyltoluene	20.21	105	919	No Calib	#	
78) 4-Ethyltoluene	19.79	105	524	N.D.		
79) 1,3,5-Trimethylbenzene	19.86	105	340	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.21	105	919	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.21	105	919	N.D.		
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
86) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
87) sec-Butylbenzene	0.00	105	0	N.D.		
88) 4-Isopropyltoluene (p-...	20.59	119	497	N.D.		
89) 1,2,3-Trimethylbenzene	20.21	105	919	No Calib	#	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	20.72	68	137	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	22.34	128	218	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	20.23	119	106	N.D.		
100) n-Butylbenzene	0.00	91	0	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Vial: 1
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 09:24:00 2023



Data File : I:\MS16\DATA\2023_03\24\03242331.D
 Acq On : 24 Mar 2023 23:40
 Sample : P2301250-053 (1000mL)
 Misc : S35-01312301

Vial: 1
 Operator: WA
 Inst : GCMS-16

3/27/23

Quant Time: Mar 27 09:24:00 2023
 Quant Method : I:\MS16\METHODS\R16122022.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Wed Dec 21 03:06:38 2022
 Response via : Initial Calibration
 DataAcq Meth:T015B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	193534	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	900178	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.72	54	196963	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	350749	13.628	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	109.04%	
57) Toluene-d8 (SS2)	15.86	98	1029686	11.941	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	95.52%	
73) Bromofluorobenzene (SS3)	19.10	174	303388	11.281	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	90.24%	

Target Compounds

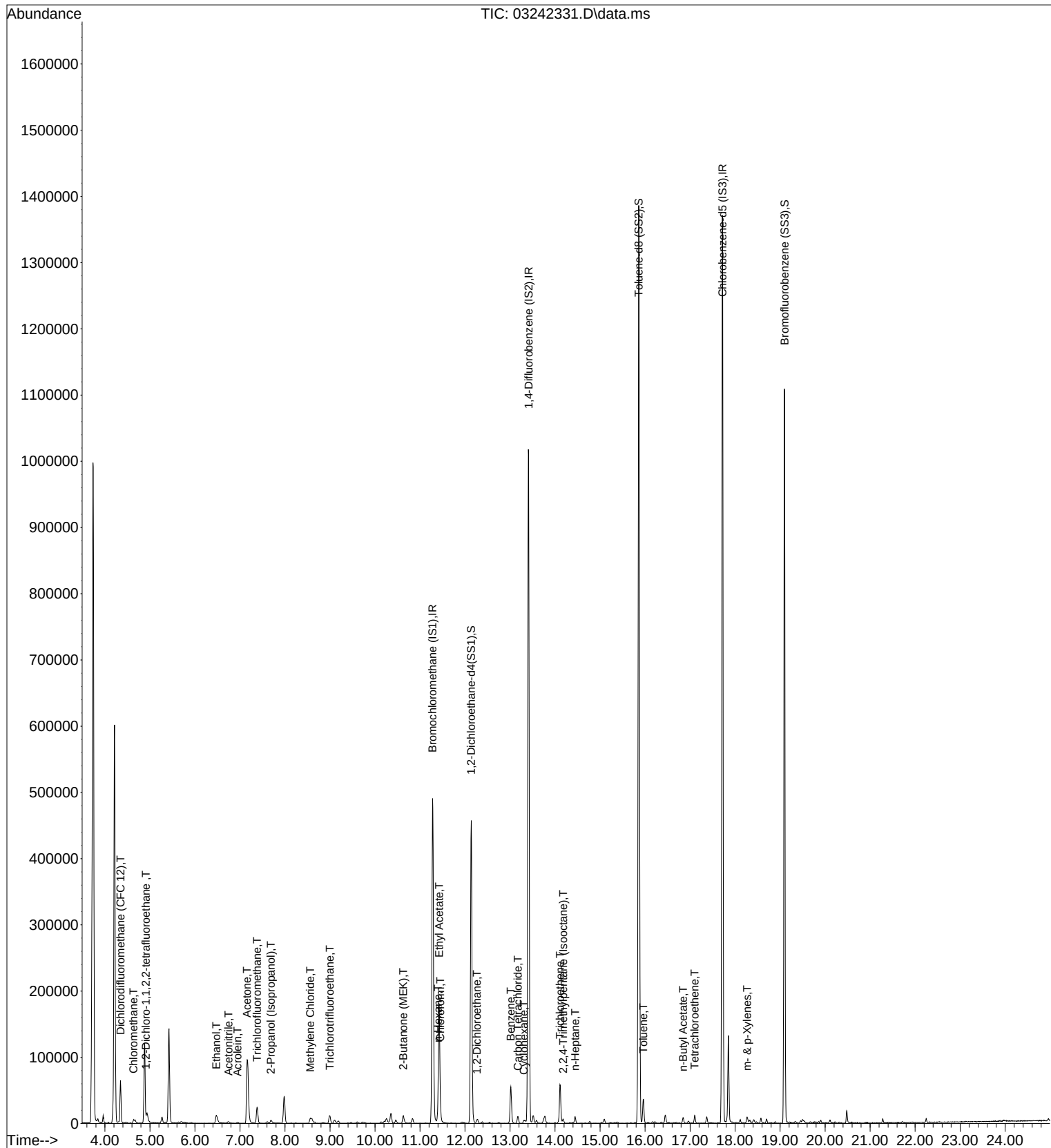
						Qvalue
3) Dichlorodifluoromethan...	4.34	85	53410	1.846	ng	99
4) Chloromethane	4.64	50	6027	0.223	ng	95
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	1234	0.076	ng	72
10) Ethanol	6.47	45	25161	1.351	ng	91
11) Acetonitrile	6.75	41	3399	0.073	ng	# 68
12) Acrolein	6.95	56	1486	0.113	ng	99
13) Acetone	7.15	58	36843	2.587	ng	# 69
14) Trichlorofluoromethane	7.38	101	23777	0.891	ng	99
15) 2-Propanol (Isopropanol)	7.69	45	10040	0.202	ng	92
19) Methylene Chloride	8.56	84	4017	0.255	ng	89
21) Trichlorotrifluoroethane	9.00	151	4382	0.330	ng	93
27) 2-Butanone (MEK)	10.62	72	4732	0.458	ng	# 92
30) Ethyl Acetate	11.42	61	31518	4.667	ng	96
31) n-Hexane	11.40	57	7081	0.209	ng	98
32) Chloroform	11.45	83	4812	0.186	ng	95
36) 1,2-Dichloroethane	12.26	62	1152	0.055	ng	# 59
41) Benzene	13.02	78	48373	0.763	ng	99
42) Carbon Tetrachloride	13.18	117	5796	0.281	ng	92
43) Cyclohexane	13.31	84	1591	0.059	ng	98
47) Trichloroethene	14.11	130	21112	1.225	ng	98
49) 2,2,4-Trimethylpentane...	14.18	57	6100	0.071	ng	75
51) n-Heptane	14.45	71	2290	0.123	ng	99
58) Toluene	15.96	91	29184	0.386	ng	98
62) n-Butyl Acetate	16.84	43	7661	0.168	ng	96
64) Tetrachloroethene	17.10	166	3555	0.185	ng	96
67) m- & p-Xylenes	18.27	91	7519	0.111	ng	97

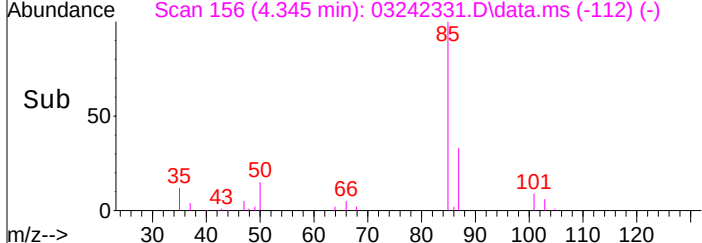
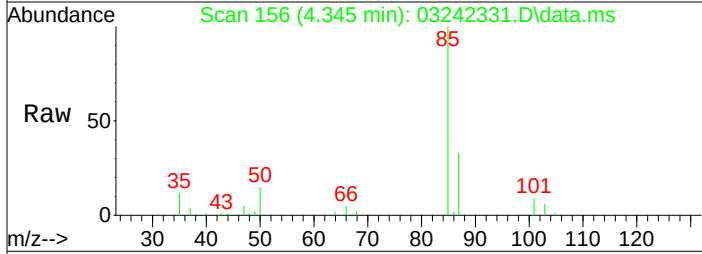
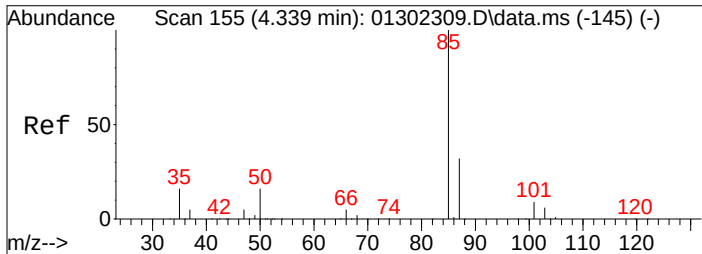
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS16\DATA\2023_03\24\03242331.D
Acq On : 24 Mar 2023 23:40
Sample : P2301250-053 (1000mL)
Misc : S35-01312301

Vial: 1
Operator: WA
Inst : GCMS-16

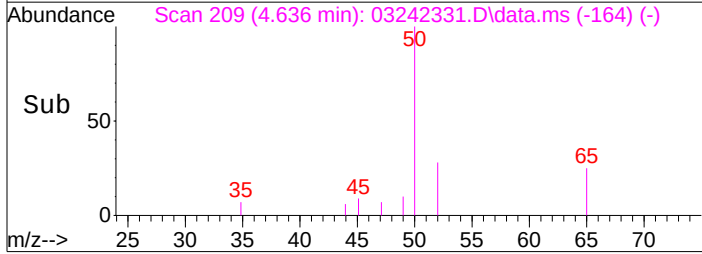
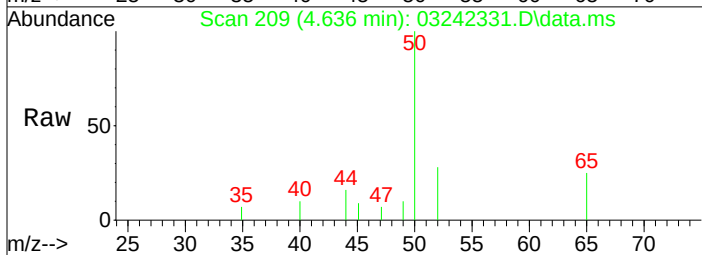
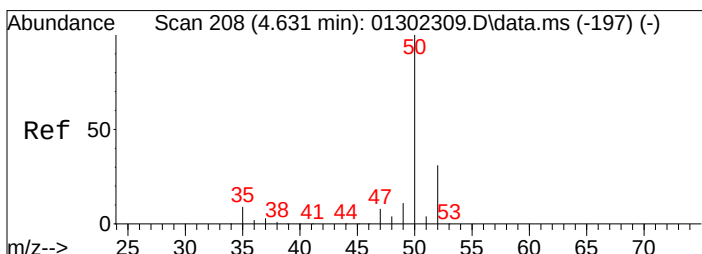
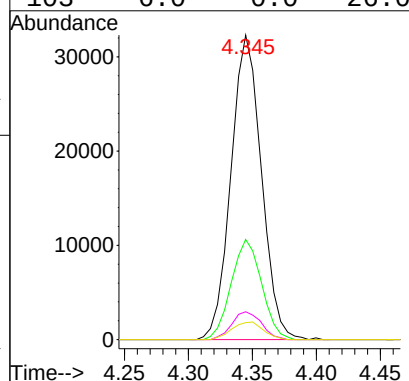
Quant Time: Mar 27 09:24:00 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M





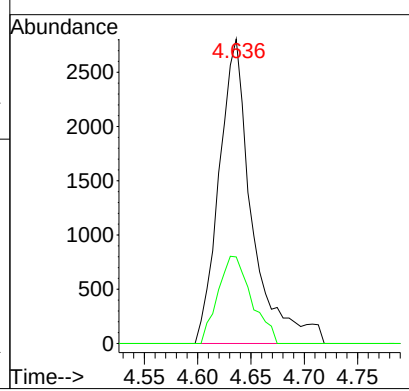
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.85 ng
 RT: 4.34 min Scan# 156
 Delta R.T. -0.005 min
 Lab File: 03242331.D
 Acq: 24 Mar 2023 23:40

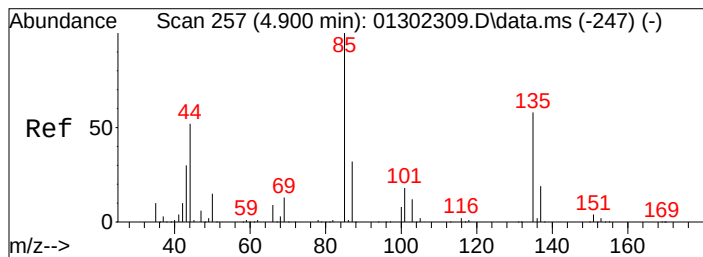
Tgt Ion:	85	Resp:	53410
Ion Ratio		Lower	Upper
85	100		
87	32.7	12.1	52.1
101	8.9	0.0	29.3
103	6.0	0.0	26.0



#4
 Chloromethane
 Concen: 0.22 ng
 RT: 4.64 min Scan# 209
 Delta R.T. 0.000 min
 Lab File: 03242331.D
 Acq: 24 Mar 2023 23:40

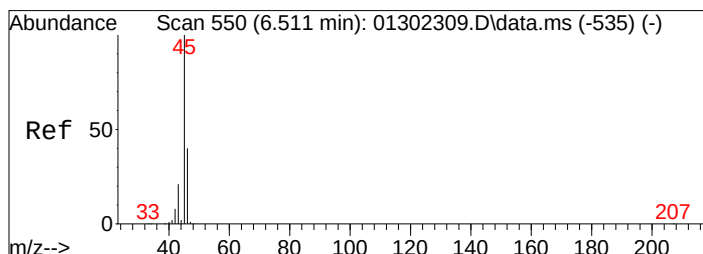
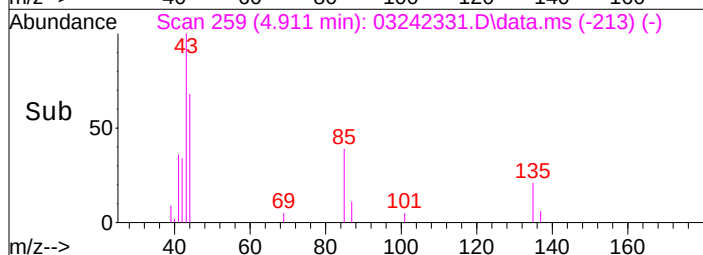
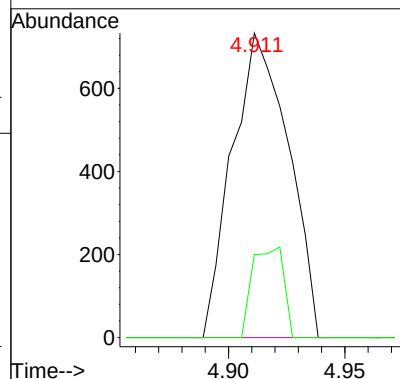
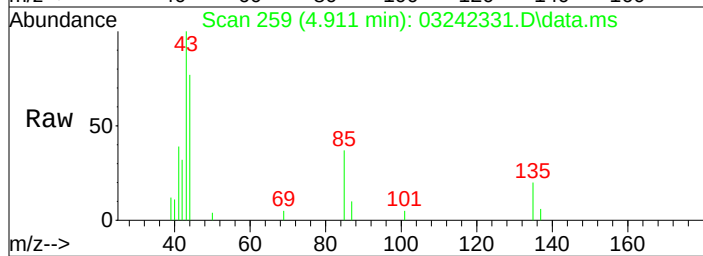
Tgt Ion:	50	Resp:	6027
Ion Ratio		Lower	Upper
50	100		
52	29.3	12.2	52.2





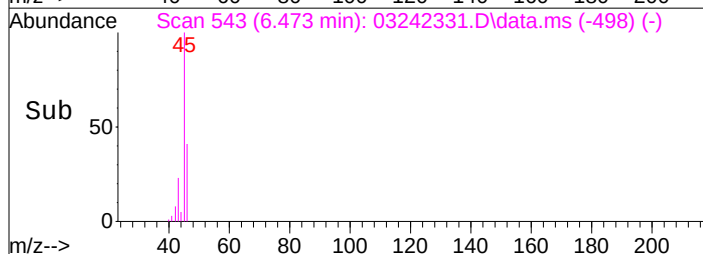
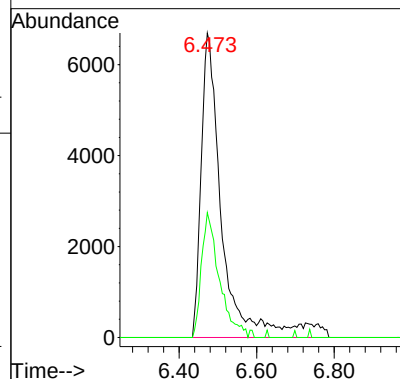
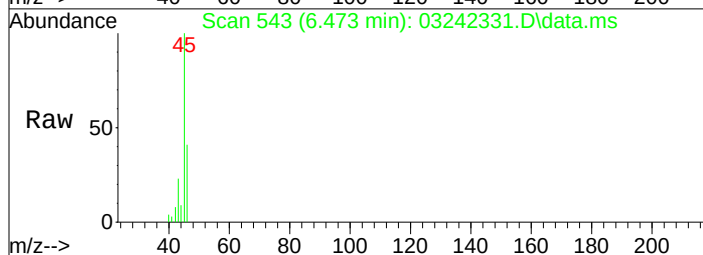
#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.08 ng
 RT: 4.91 min Scan# 259
 Delta R.T. 0.006 min
 Lab File: 03242331.D
 Acq: 24 Mar 2023 23:40

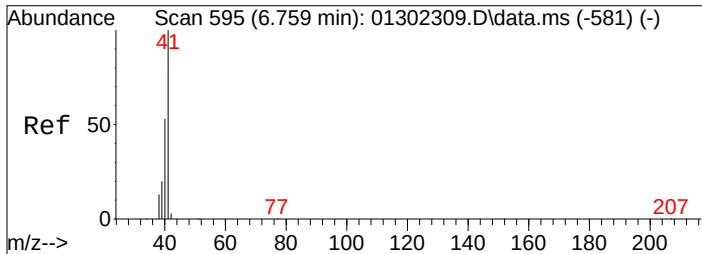
Tgt Ion: 135 Resp: 1234
 Ion Ratio Lower Upper
 135 100
 137 16.6 12.0 52.0



#10
 Ethanol
 Concen: 1.35 ng
 RT: 6.47 min Scan# 543
 Delta R.T. -0.005 min
 Lab File: 03242331.D
 Acq: 24 Mar 2023 23:40

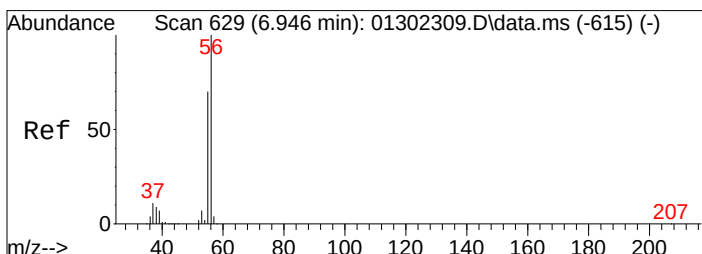
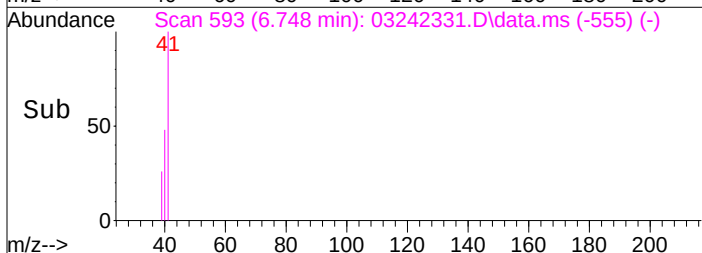
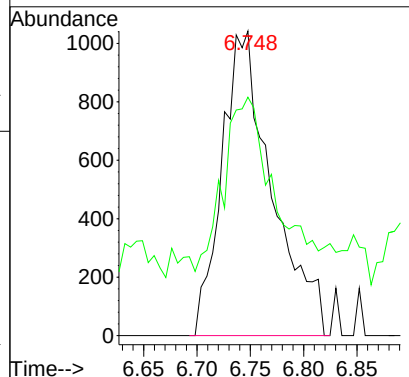
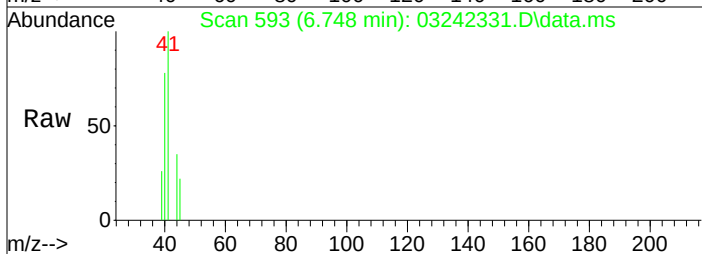
Tgt Ion: 45 Resp: 25161
 Ion Ratio Lower Upper
 45 100
 46 34.7 20.5 60.5





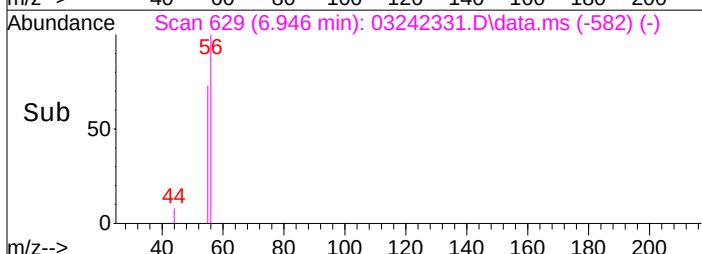
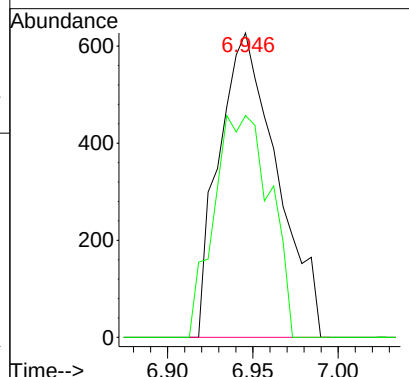
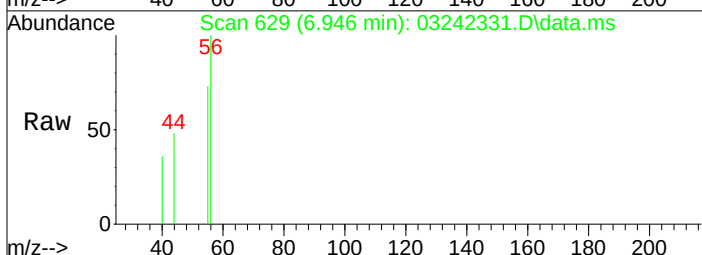
#11
Acetonitrile
Concen: 0.07 ng
RT: 6.75 min Scan# 593
Delta R.T. 0.011 min
Lab File: 03242331.D
Acq: 24 Mar 2023 23:40

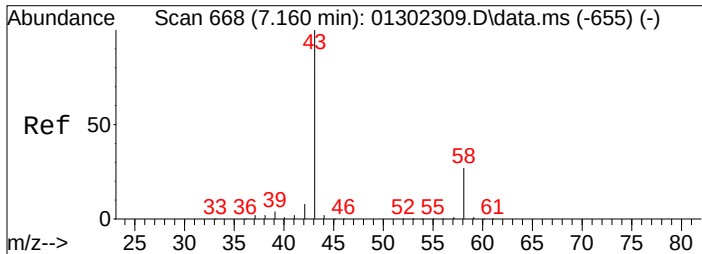
Tgt Ion: 41 Resp: 3399
Ion Ratio Lower Upper
41 100
40 75.0 32.4 72.4#



#12
Acrolein
Concen: 0.11 ng
RT: 6.95 min Scan# 629
Delta R.T. 0.011 min
Lab File: 03242331.D
Acq: 24 Mar 2023 23:40

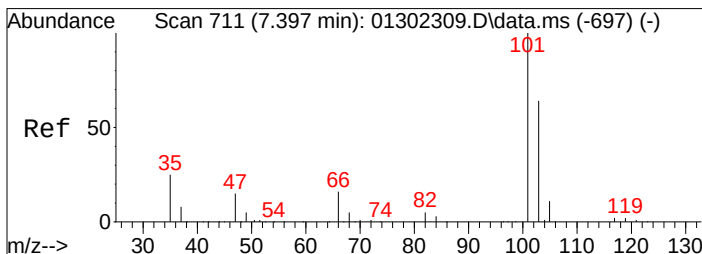
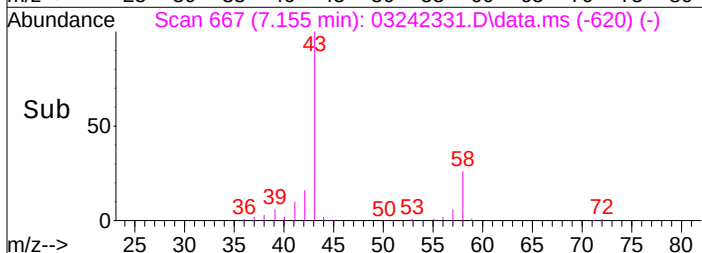
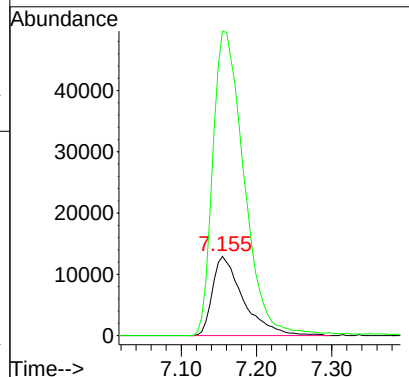
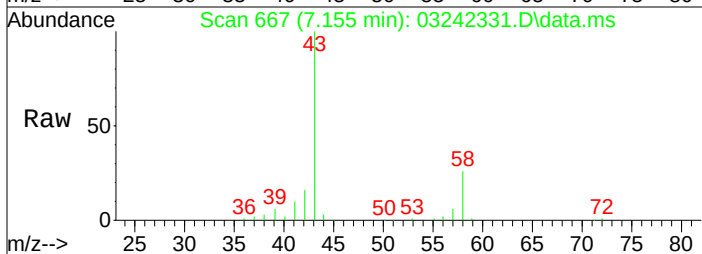
Tgt Ion: 56 Resp: 1486
Ion Ratio Lower Upper
56 100
55 70.8 49.9 89.9





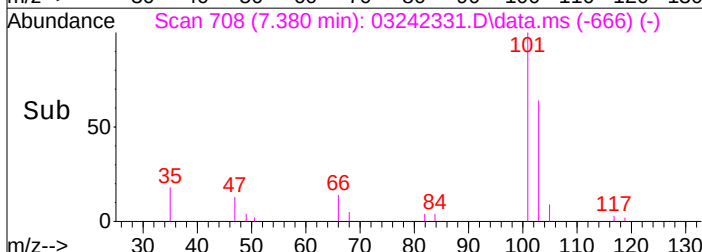
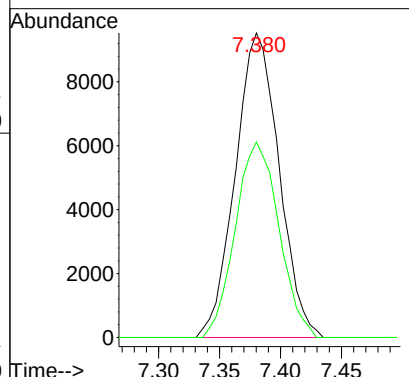
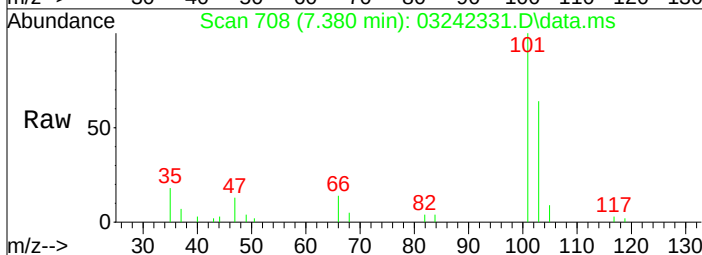
#13
Acetone
Concen: 2.59 ng
RT: 7.15 min Scan# 667
Delta R.T. 0.011 min
Lab File: 03242331.D
Acq: 24 Mar 2023 23:40

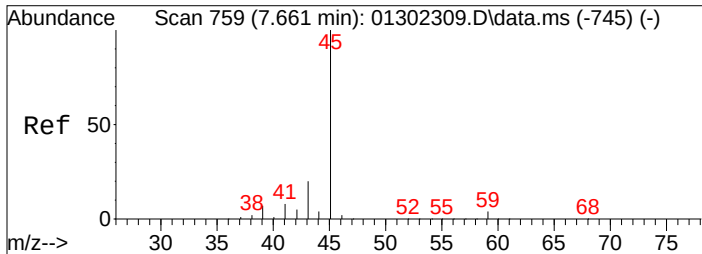
Tgt Ion: 58 Resp: 36843
Ion Ratio Lower Upper
58 100
43 392.2 298.5 358.5#



#14
Trichlorofluoromethane
Concen: 0.89 ng
RT: 7.38 min Scan# 708
Delta R.T. -0.016 min
Lab File: 03242331.D
Acq: 24 Mar 2023 23:40

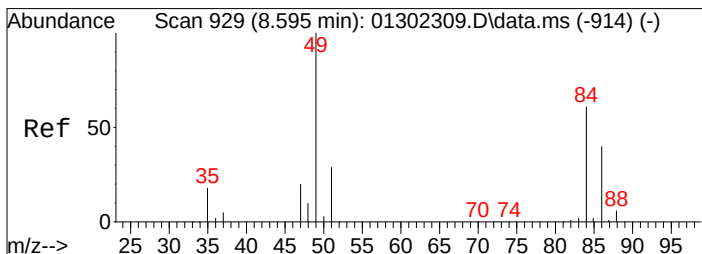
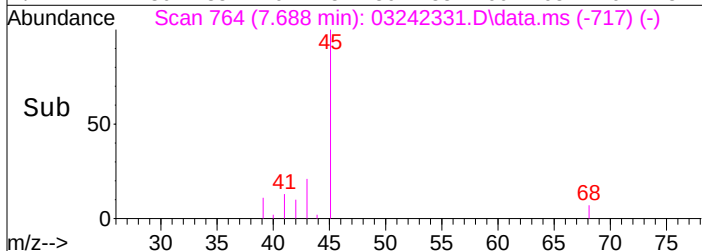
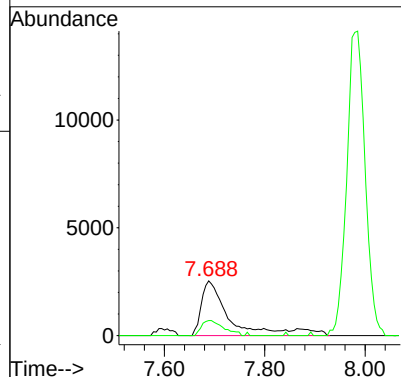
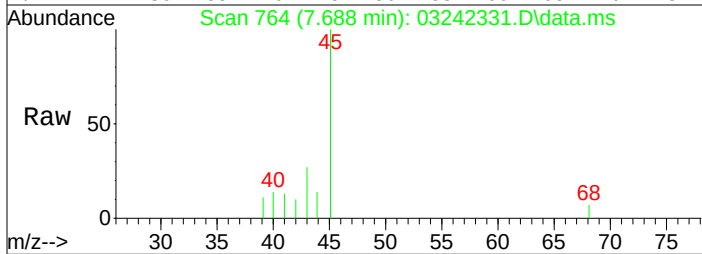
Tgt Ion: 101 Resp: 23777
Ion Ratio Lower Upper
101 100
103 63.9 44.8 84.8





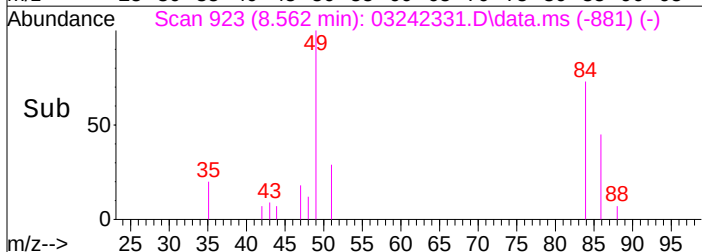
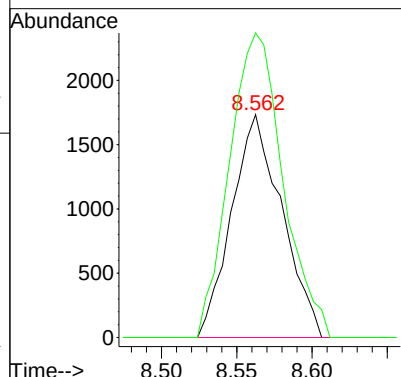
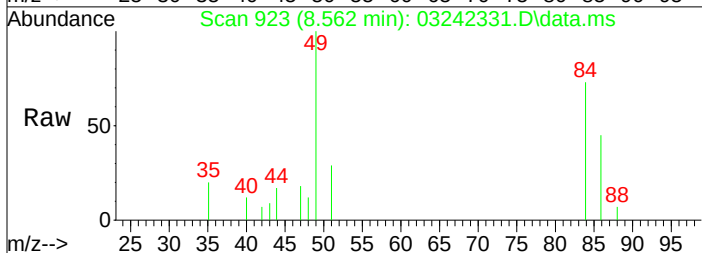
#15
 2-Propanol (Isopropanol)
 Concen: 0.20 ng
 RT: 7.69 min Scan# 764
 Delta R.T. 0.008 min
 Lab File: 03242331.D
 Acq: 24 Mar 2023 23:40

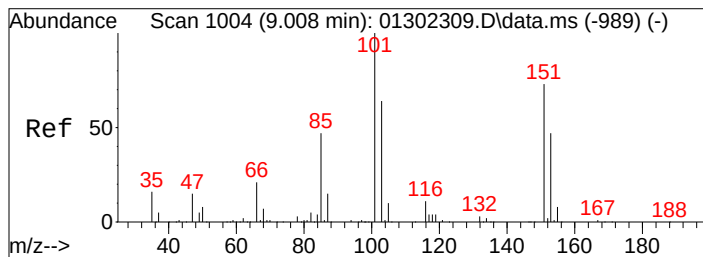
Tgt Ion:	45	Resp:	10040
Ion Ratio		Lower	Upper
45	100		
43	21.3	0.0	37.9



#19
 Methylene Chloride
 Concen: 0.26 ng
 RT: 8.56 min Scan# 923
 Delta R.T. -0.016 min
 Lab File: 03242331.D
 Acq: 24 Mar 2023 23:40

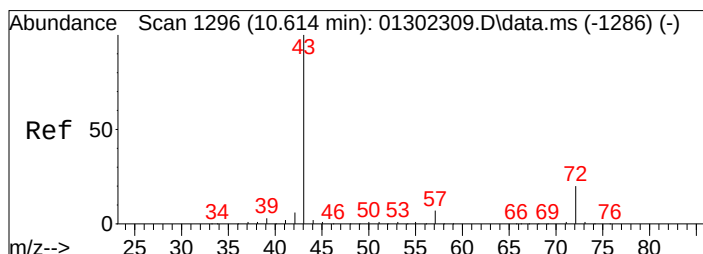
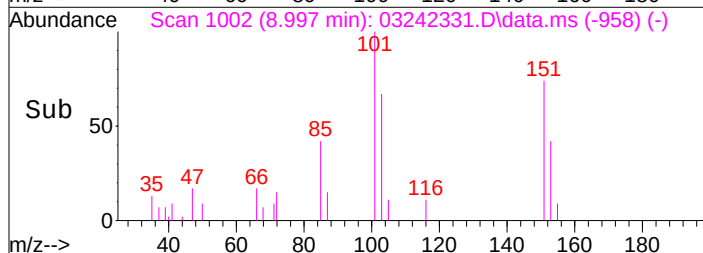
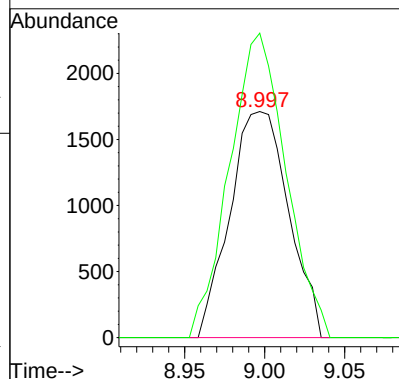
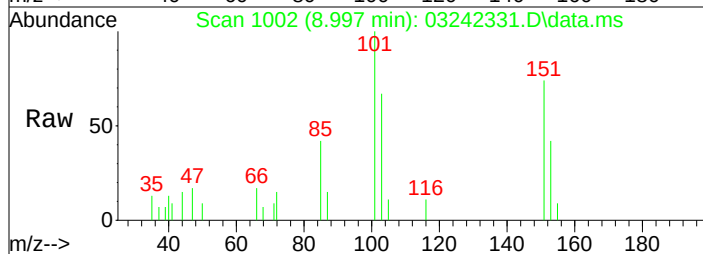
Tgt Ion:	84	Resp:	4017
Ion Ratio		Lower	Upper
84	100		
49	145.8	135.0	185.0





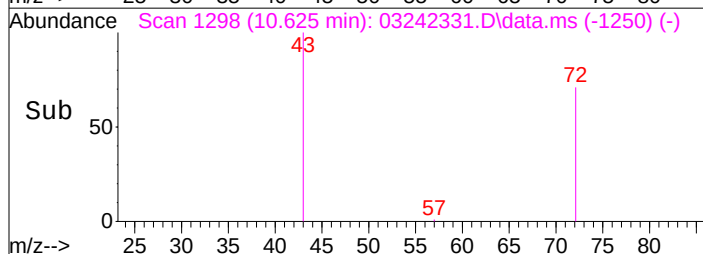
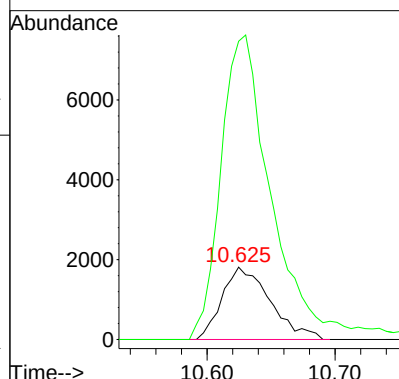
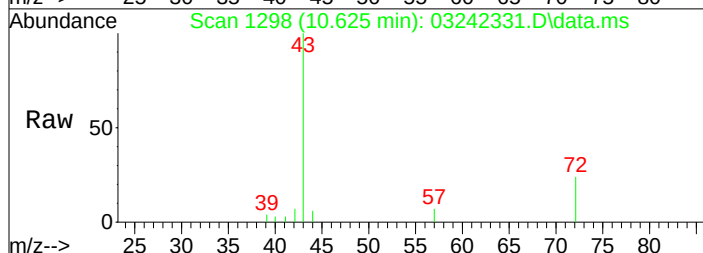
#21
 Trichlorotrifluoroethane
 Concen: 0.33 ng
 RT: 9.00 min Scan# 1002
 Delta R.T. -0.005 min
 Lab File: 03242331.D
 Acq: 24 Mar 2023 23:40

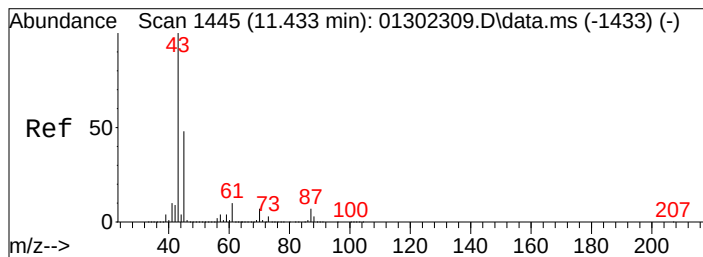
Tgt Ion: 151 Resp: 4382
 Ion Ratio Lower Upper
 151 100
 101 129.2 101.5 141.5



#27
 2-Butanone (MEK)
 Concen: 0.46 ng
 RT: 10.62 min Scan# 1298
 Delta R.T. 0.017 min
 Lab File: 03242331.D
 Acq: 24 Mar 2023 23:40

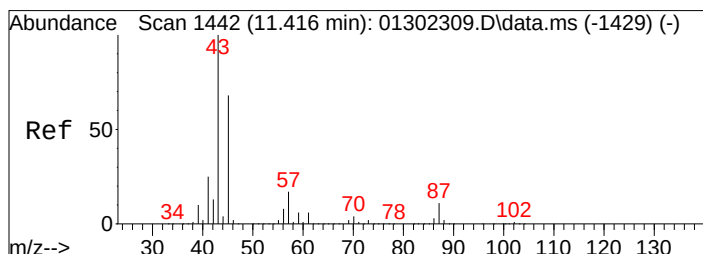
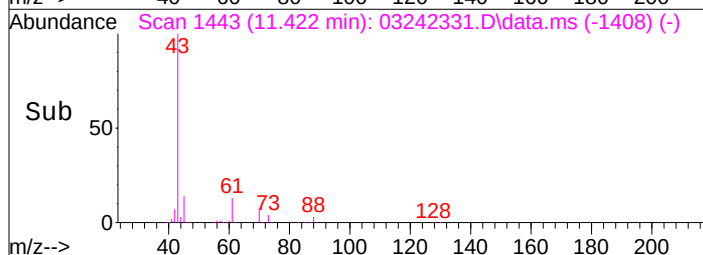
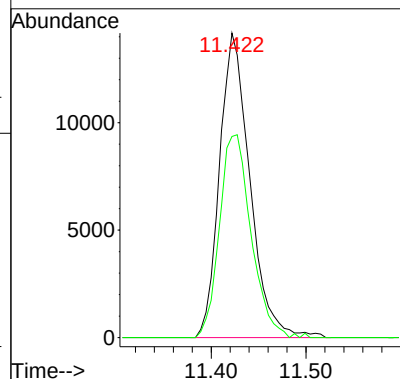
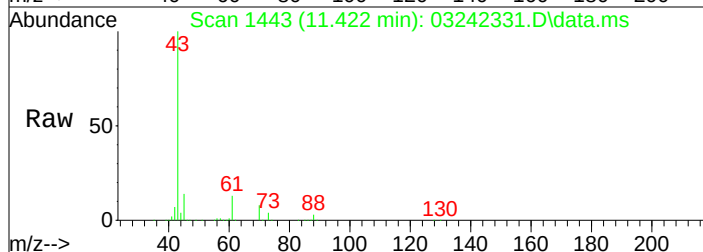
Tgt Ion: 72 Resp: 4732
 Ion Ratio Lower Upper
 72 100
 43 448.9 449.4 489.4#





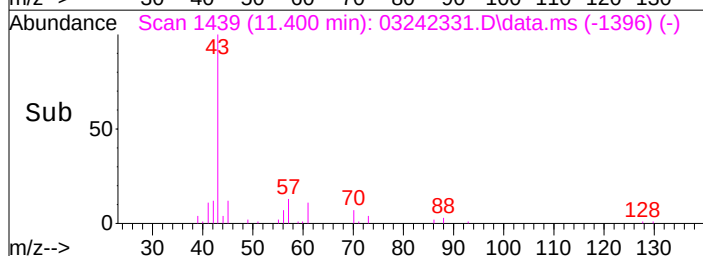
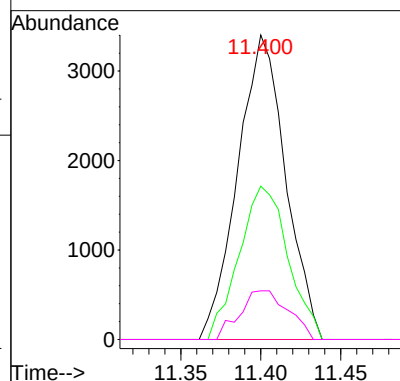
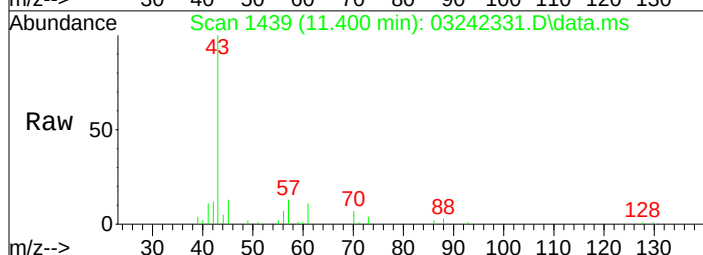
#30
Ethyl Acetate
Concen: 4.67 ng
RT: 11.42 min Scan# 1443
Delta R.T. -0.005 min
Lab File: 03242331.D
Acq: 24 Mar 2023 23:40

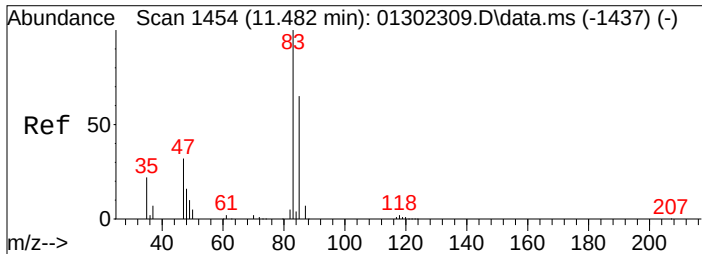
Tgt Ion: 61 Resp: 31518
Ion Ratio Lower Upper
61 100
70 69.5 52.8 92.8



#31
n-Hexane
Concen: 0.21 ng
RT: 11.40 min Scan# 1439
Delta R.T. -0.011 min
Lab File: 03242331.D
Acq: 24 Mar 2023 23:40

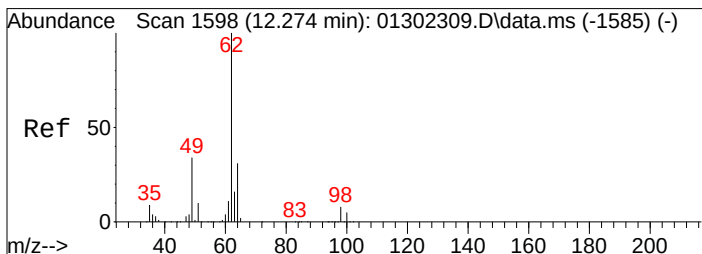
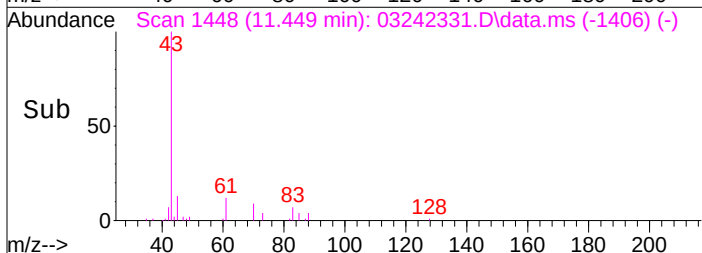
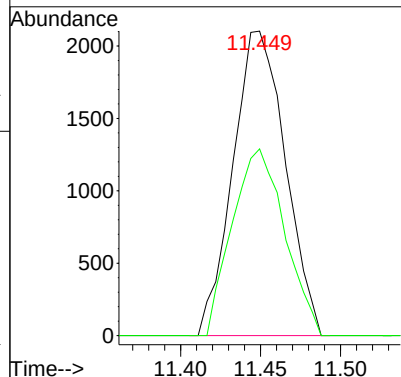
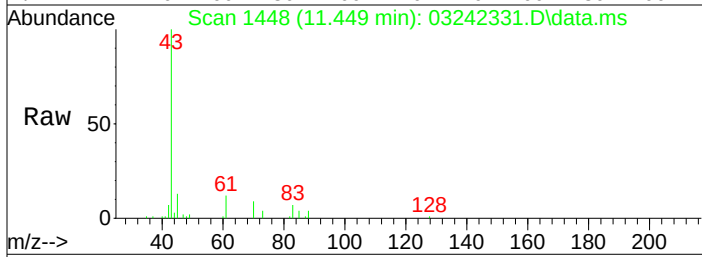
Tgt Ion: 57 Resp: 7081
Ion Ratio Lower Upper
57 100
56 51.4 39.9 59.9
86 16.3 12.3 18.5





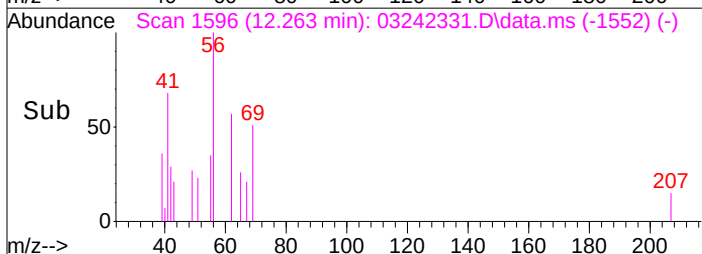
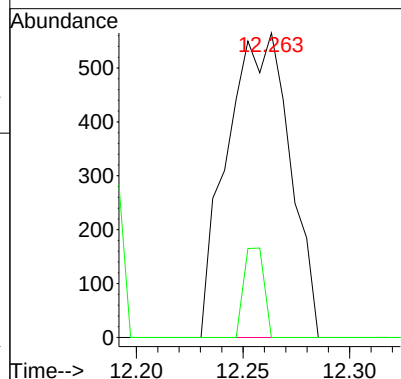
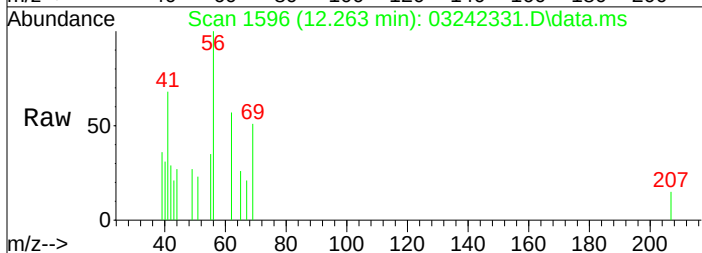
#32
Chloroform
Concen: 0.19 ng
RT: 11.45 min Scan# 1448
Delta R.T. -0.016 min
Lab File: 03242331.D
Acq: 24 Mar 2023 23:40

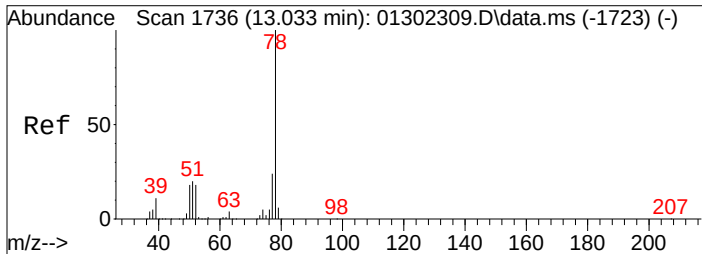
Tgt Ion: 83 Resp: 4812
Ion Ratio Lower Upper
83 100
85 61.3 45.5 85.5



#36
1,2-Dichloroethane
Concen: 0.05 ng
RT: 12.26 min Scan# 1596
Delta R.T. -0.005 min
Lab File: 03242331.D
Acq: 24 Mar 2023 23:40

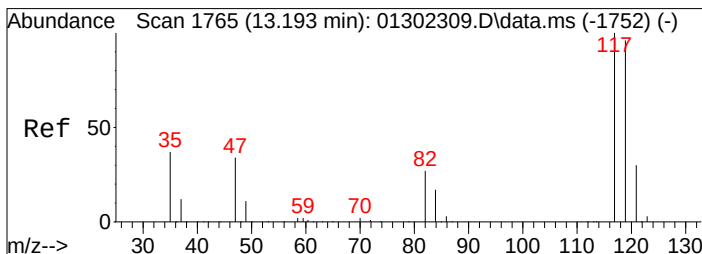
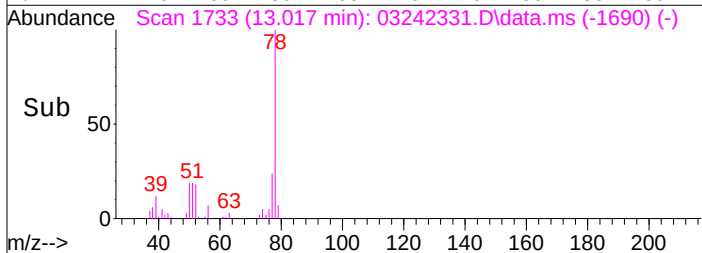
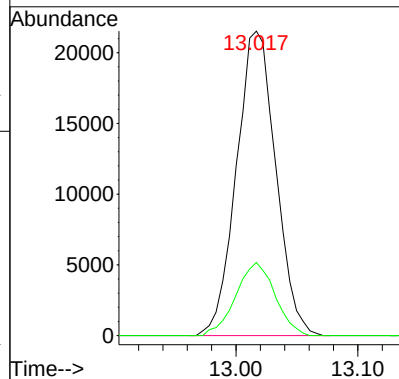
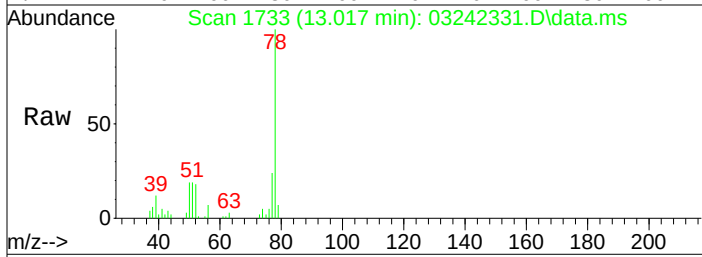
Tgt Ion: 62 Resp: 1152
Ion Ratio Lower Upper
62 100
64 9.5 12.5 52.5#





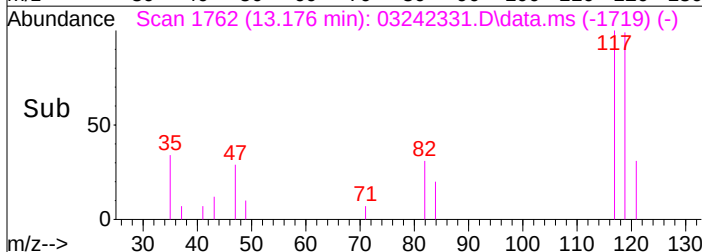
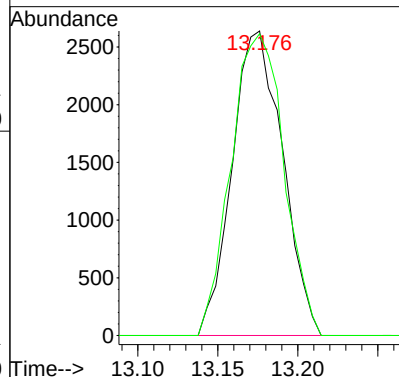
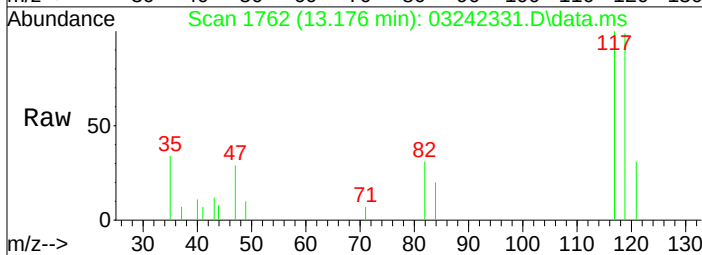
#41
Benzene
Concen: 0.76 ng
RT: 13.02 min Scan# 1733
Delta R.T. -0.011 min
Lab File: 03242331.D
Acq: 24 Mar 2023 23:40

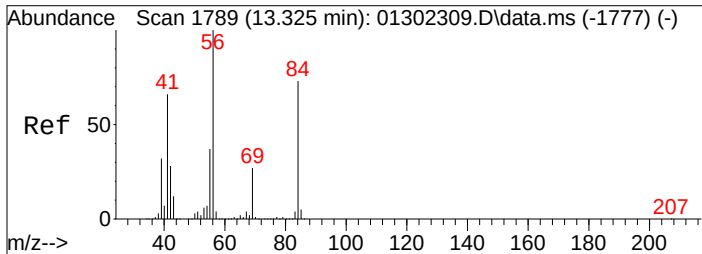
Tgt Ion: 78 Resp: 48373
Ion Ratio Lower Upper
78 100
77 23.8 3.3 43.3



#42
Carbon Tetrachloride
Concen: 0.28 ng
RT: 13.18 min Scan# 1762
Delta R.T. -0.011 min
Lab File: 03242331.D
Acq: 24 Mar 2023 23:40

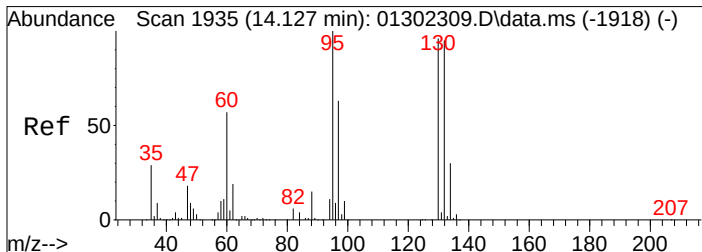
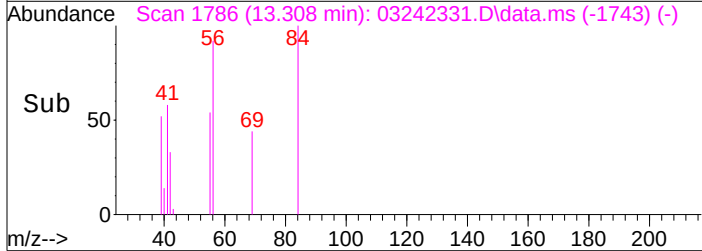
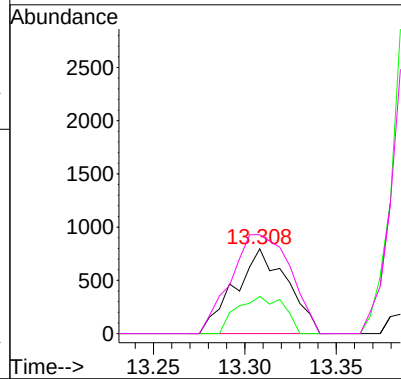
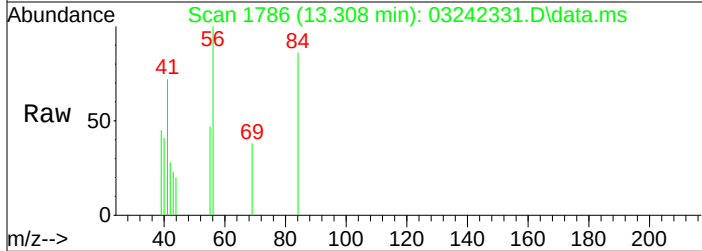
Tgt Ion: 117 Resp: 5796
Ion Ratio Lower Upper
117 100
119 103.9 76.2 116.2





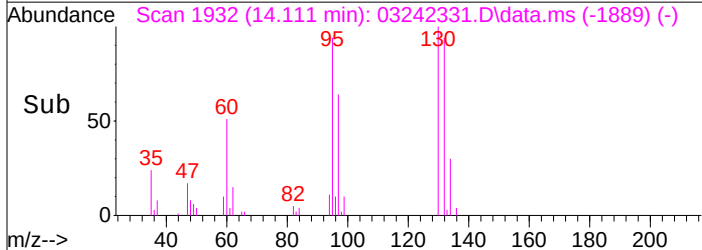
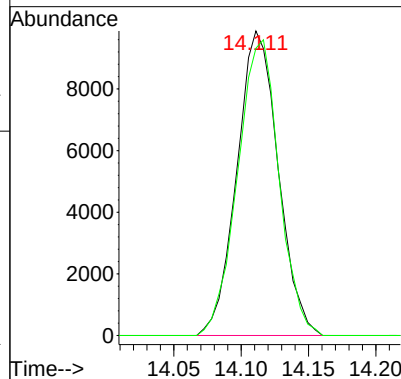
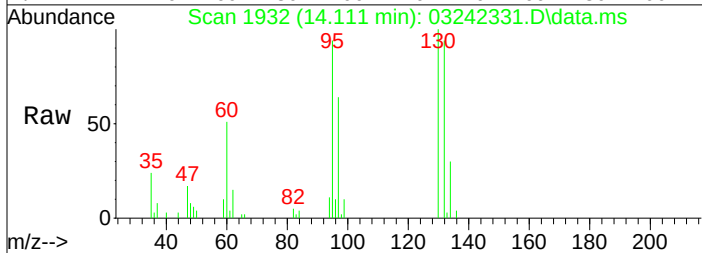
#43
Cyclohexane
Concen: 0.06 ng
RT: 13.31 min Scan# 1786
Delta R.T. -0.011 min
Lab File: 03242331.D
Acq: 24 Mar 2023 23:40

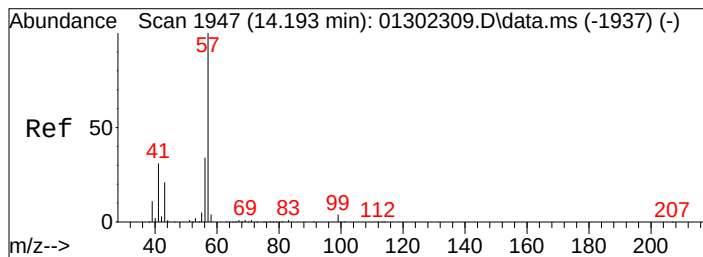
Tgt Ion:	84	Resp:	1591
Ion Ratio		Lower	Upper
84	100		
69	39.0	16.2	56.2
56	133.0	115.2	155.2



#47
Trichloroethene
Concen: 1.22 ng
RT: 14.11 min Scan# 1932
Delta R.T. -0.011 min
Lab File: 03242331.D
Acq: 24 Mar 2023 23:40

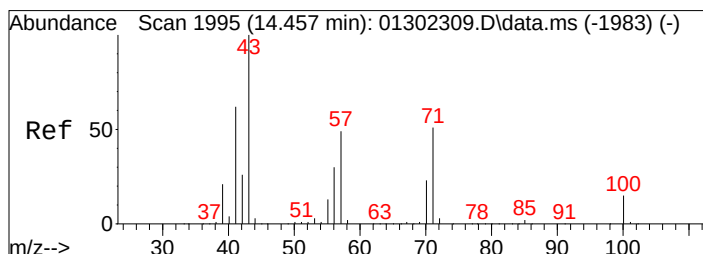
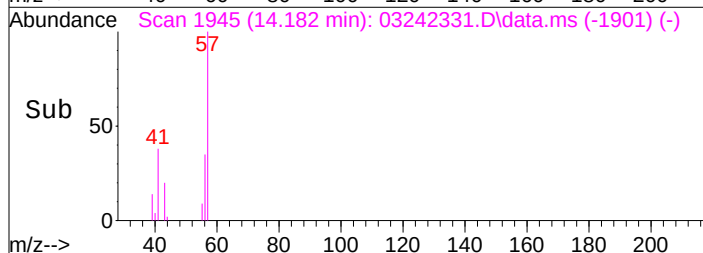
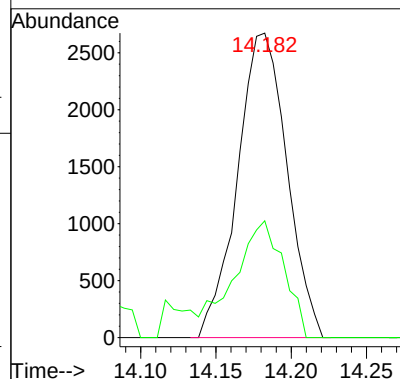
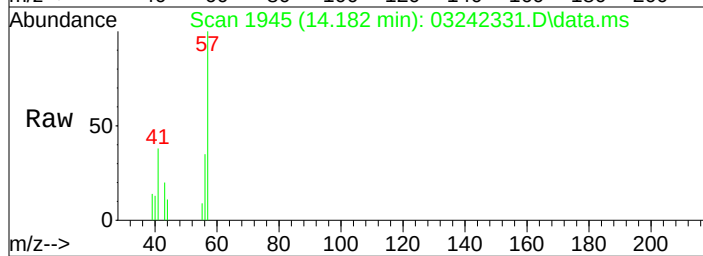
Tgt Ion:	130	Resp:	21112
Ion Ratio		Lower	Upper
130	100		
132	97.1	78.7	118.7





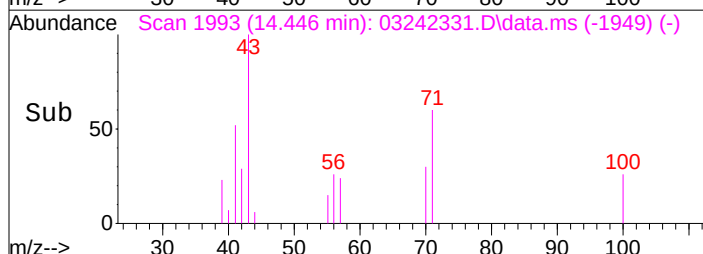
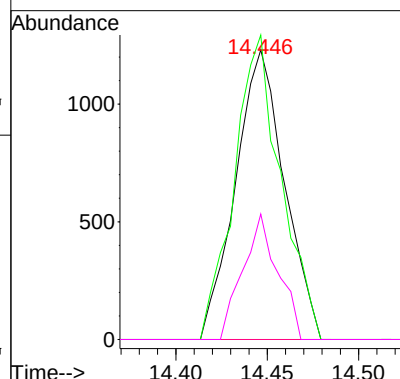
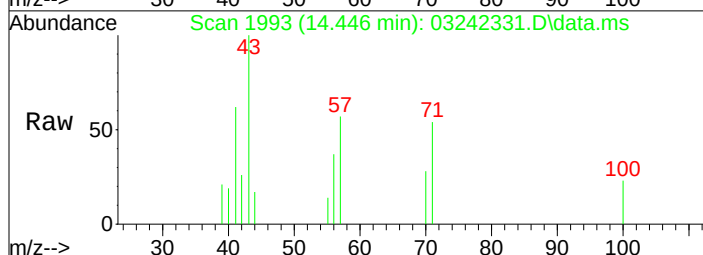
#49
2,2,4-Trimethylpentane (Isooctane)
Concen: 0.07 ng
RT: 14.18 min Scan# 1945
Delta R.T. -0.005 min
Lab File: 03242331.D
Acq: 24 Mar 2023 23:40

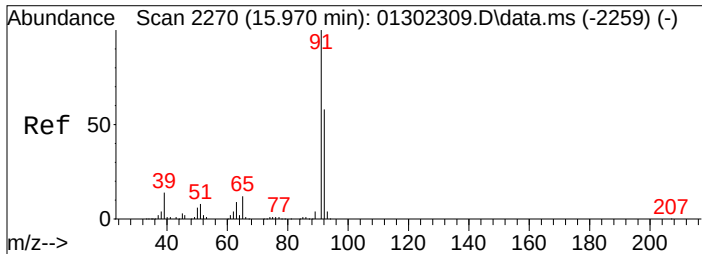
Tgt Ion: 57 Resp: 6100
Ion Ratio Lower Upper
57 100
41 38.5 5.8 45.8



#51
n-Heptane
Concen: 0.12 ng
RT: 14.45 min Scan# 1993
Delta R.T. -0.005 min
Lab File: 03242331.D
Acq: 24 Mar 2023 23:40

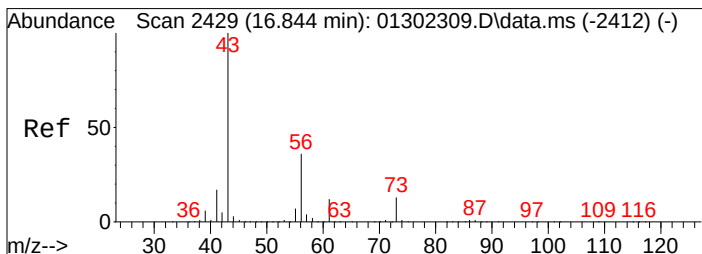
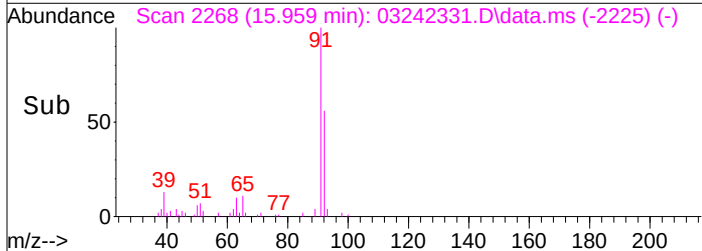
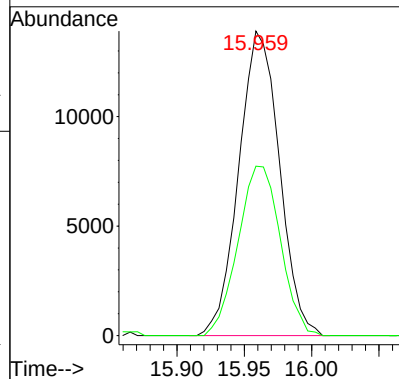
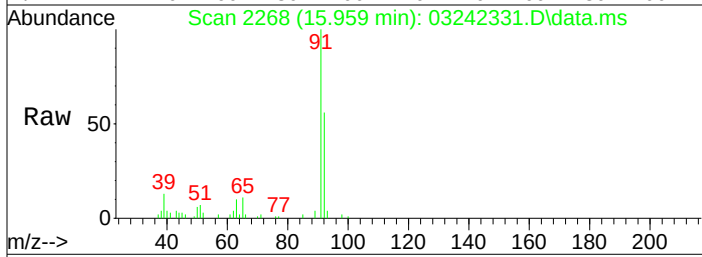
Tgt Ion: 71 Resp: 2290
Ion Ratio Lower Upper
71 100
57 100.2 81.4 121.4
100 31.0 11.8 51.8





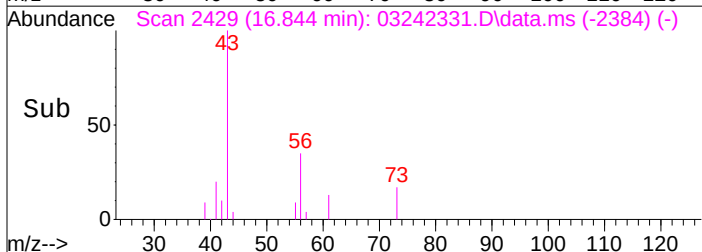
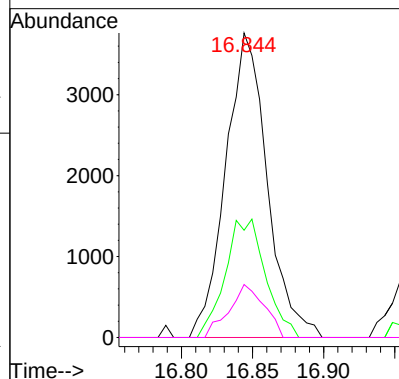
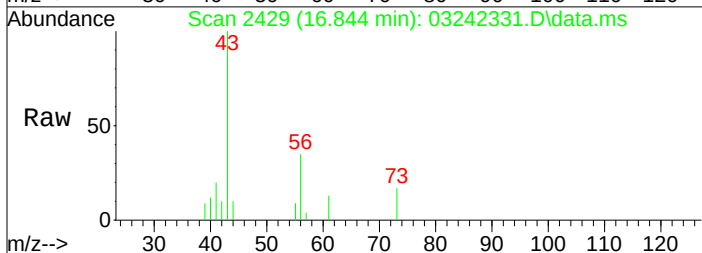
#58
Toluene
Concen: 0.39 ng
RT: 15.96 min Scan# 2268
Delta R.T. -0.011 min
Lab File: 03242331.D
Acq: 24 Mar 2023 23:40

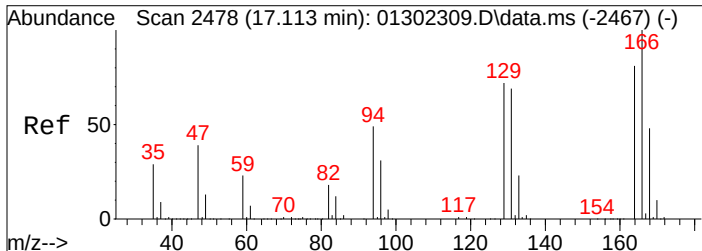
Tgt Ion: 91 Resp: 29184
Ion Ratio Lower Upper
91 100
92 58.0 39.8 79.8



#62
n-Butyl Acetate
Concen: 0.17 ng
RT: 16.84 min Scan# 2429
Delta R.T. -0.000 min
Lab File: 03242331.D
Acq: 24 Mar 2023 23:40

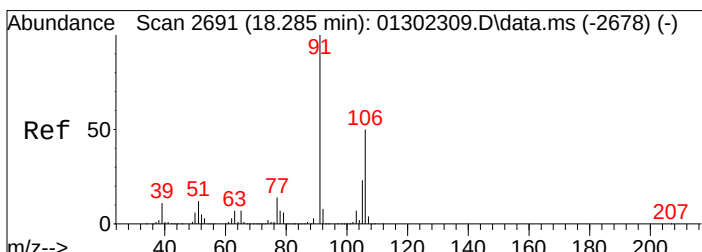
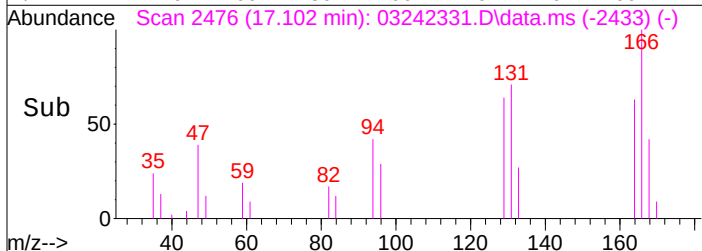
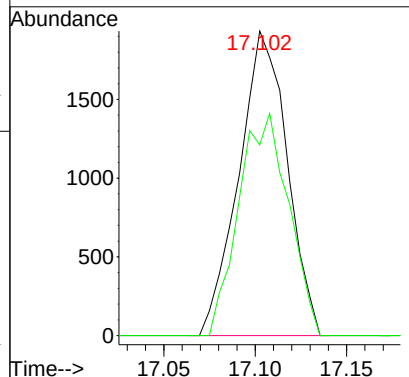
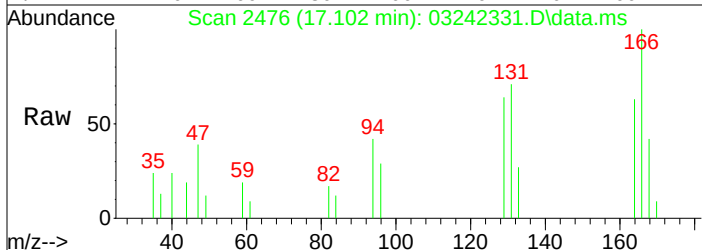
Tgt Ion: 43 Resp: 7661
Ion Ratio Lower Upper
43 100
56 37.6 21.0 61.0
73 14.7 0.0 34.3





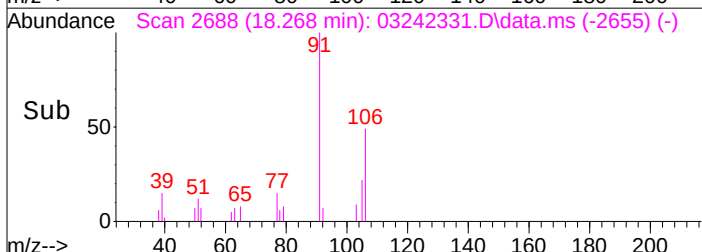
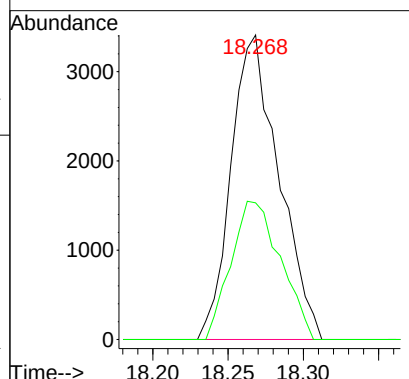
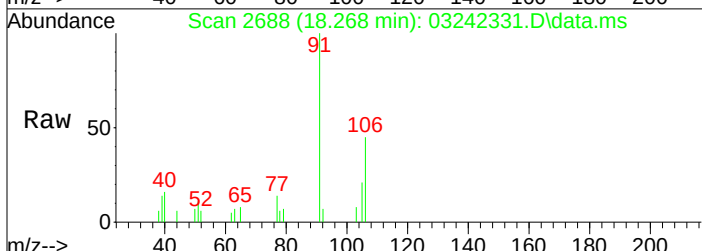
#64
Tetrachloroethene
Concen: 0.18 ng
RT: 17.10 min Scan# 2476
Delta R.T. -0.011 min
Lab File: 03242331.D
Acq: 24 Mar 2023 23:40

Tgt Ion: 166 Resp: 3555
Ion Ratio Lower Upper
166 100
164 75.2 58.7 98.7



#67
m- & p-Xylenes
Concen: 0.11 ng
RT: 18.27 min Scan# 2688
Delta R.T. -0.016 min
Lab File: 03242331.D
Acq: 24 Mar 2023 23:40

Tgt Ion: 91 Resp: 7519
Ion Ratio Lower Upper
91 100
106 47.1 29.2 69.2



Data File : I:\MS16\DATA\2023_03\24\03242331.D
 Acq On : 24 Mar 2023 23:40
 Sample : P2301250-053 (1000mL)
 Misc : S35-01312301

Vial: 1
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 09:53:18 2023

Quant Method : I:\MS16\METHODS\C16122022.M

Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD

QLast Update : Wed Dec 21 05:02:49 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.28	130	193534	12.500	ng	-0.02
16) 1,4-Difluorobenzene (C_2)	13.41	114	900497	12.500	ng	-0.01
19) Chlorobenzene-d5 (C_3)	17.72	54	196963	12.500	ng	0.00

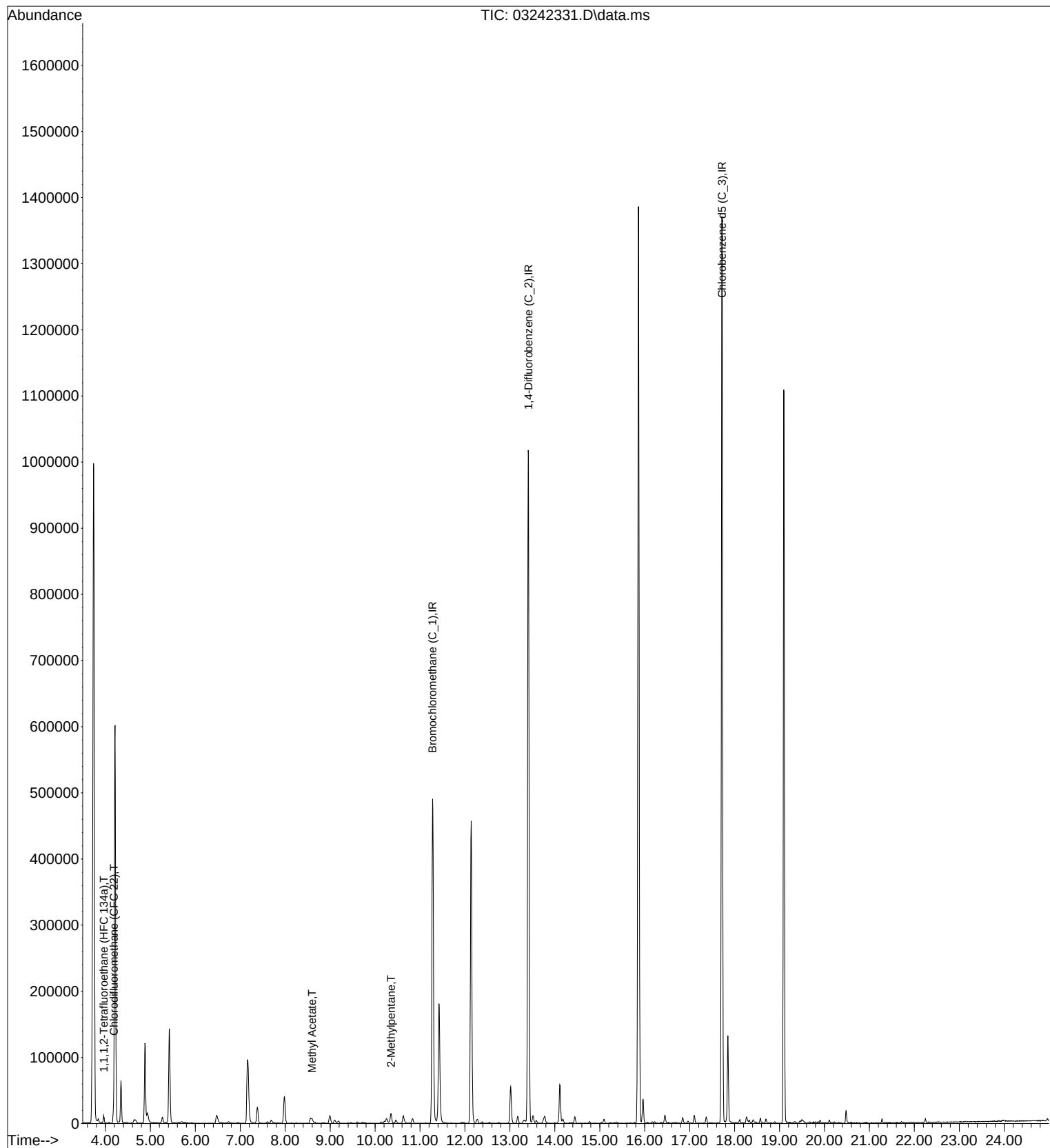
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.85	85	607	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.97	83	5253	0.343	ng	88
4) 1,1-Difluoroethane	4.08	65	464	N.D.		
5) Chlorodifluoromethane ...	4.19	67	2596	0.542	ng	73
6) 1-Chloro-1,1-Difluoroe...	4.65	65	2339	N.D.		
7) Dichlorofluoromethane ...	6.36	67	55	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	8.60	43	10814	0.226	ng	# 93
12) 2-Methylpentane	10.36	71	3532	0.186	ng	# 52
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	13.17	84	1169	N.D.		
17) 2,3-Dimethylpentane	13.59	56	1746	N.D.		
18) Dibromomethane	13.82	174	298	N.D.		
20) Methyl Cyclohexane	15.10	55	2215	N.D.		
21) 1,3-Dichloropropane	15.96	76	63	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	0.00	91	0	N.D.		
24) 1,2,3-Trichloropropane	18.69	75	100	N.D.		
25) Bromobenzene	0.00	77	0	N.D.		
26) 2-Chlorotoluene	19.66	91	902	N.D.		
27) 4-Chlorotoluene	19.66	91	902	N.D.		
28) Indane	20.76	117	114	N.D.		
29) Indene	0.00	115	0	N.D.		
30) 1,2,4,5-Tetramethylben...	0.00	119	0	N.D.		
31) 1,2,3,4-Tetramethylben...	0.00	119	0	N.D.		
32) 1,2,3,5-Tetramethylben...	0.00	119	0	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\24\03242331.D
Acq On : 24 Mar 2023 23:40
Sample : P2301250-053 (1000mL)
Misc : S35-01312301

Vial: 1
Operator: WA
Inst : GCMS-16

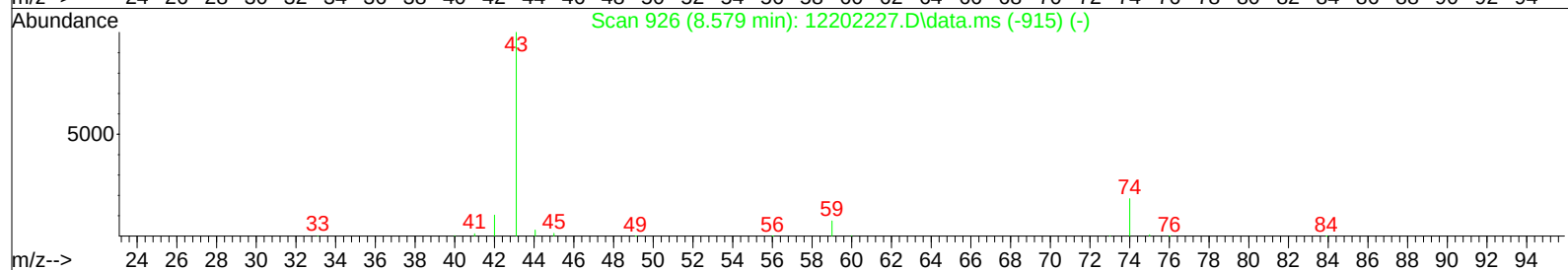
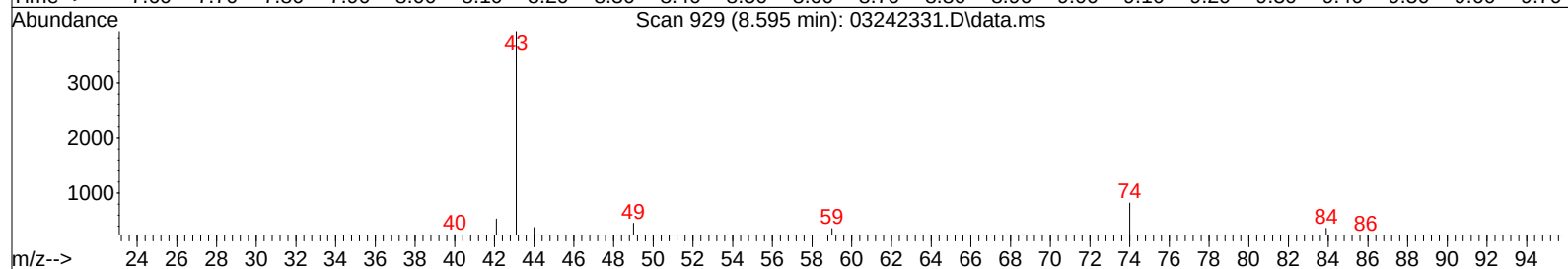
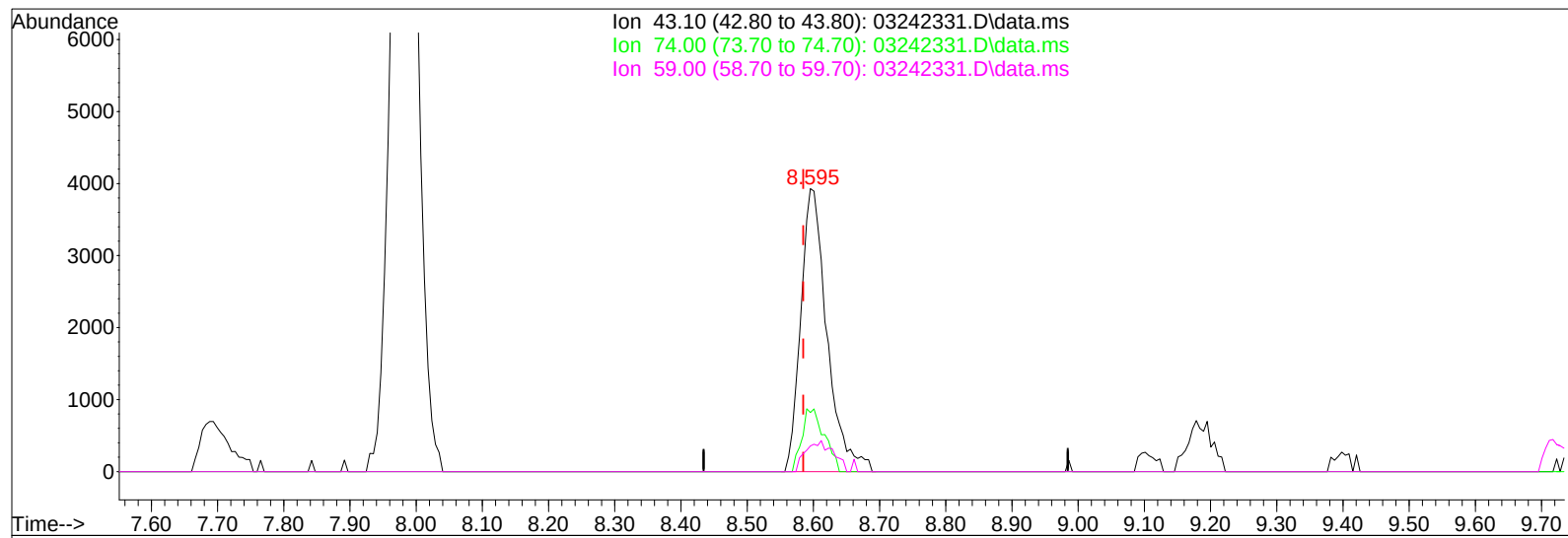
Quant Time: Mar 27 09:53:18 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



Data File : I:\MS16\DATA\2023_03\24\03242331.D
Acq On : 24 Mar 2023 23:40
Sample : P2301250-053 (1000mL)
Misc : S35-01312301

Vial: 1
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 09:26:52 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



TIC: 03242331.D\data.ms

(11) Methyl Acetate (T)

8.595min (+0.011) 0.23ng

response 10814

Ion	Exp%	Act%
43.10	100	100
74.00	18.10	19.03
59.00	7.20	0.00#
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG34-4

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-054

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02148

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.56 Final Pressure (psig): 3.85

Container Dilution Factor: 1.31

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.8	0.69	0.11	0.57	0.14	0.023	
74-87-3	Chloromethane	0.30	0.28	0.11	0.15	0.13	0.055	
75-01-4	Vinyl Chloride	ND	0.14	0.075	ND	0.056	0.029	
74-83-9	Bromomethane	ND	0.28	0.097	ND	0.071	0.025	
75-00-3	Chloroethane	ND	0.28	0.086	ND	0.10	0.033	
67-64-1	Acetone	4.8	6.9	1.6	2.0	2.9	0.66	J
75-69-4	Trichlorofluoromethane	1.3	0.68	0.11	0.24	0.12	0.019	
75-35-4	1,1-Dichloroethene	ND	0.14	0.097	ND	0.036	0.024	
75-09-2	Methylene Chloride	0.79	0.69	0.20	0.23	0.20	0.057	
76-13-1	Trichlorotrifluoroethane	0.52	0.71	0.10	0.067	0.092	0.013	J
75-15-0	Carbon Disulfide	ND	1.4	0.21	ND	0.45	0.067	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	0.097	ND	0.036	0.024	
75-34-3	1,1-Dichloroethane	ND	0.14	0.10	ND	0.036	0.025	
1634-04-4	Methyl tert-Butyl Ether	ND	0.71	0.083	ND	0.20	0.023	
78-93-3	2-Butanone (MEK)	0.85	1.4	0.14	0.29	0.46	0.049	J
156-59-2	cis-1,2-Dichloroethene	ND	0.14	0.098	ND	0.036	0.025	
67-66-3	Chloroform	0.28	0.14	0.093	0.058	0.030	0.019	
107-06-2	1,2-Dichloroethane	0.077	0.14	0.077	0.019	0.036	0.019	J
71-55-6	1,1,1-Trichloroethane	ND	0.14	0.086	ND	0.026	0.016	
71-43-2	Benzene	1.6	0.14	0.10	0.50	0.045	0.032	
56-23-5	Carbon Tetrachloride	0.46	0.14	0.097	0.073	0.023	0.015	
110-82-7	Cyclohexane	ND	1.4	0.20	ND	0.40	0.057	
78-87-5	1,2-Dichloropropane	ND	0.14	0.086	ND	0.031	0.019	
75-27-4	Bromodichloromethane	ND	0.14	0.10	ND	0.022	0.015	
79-01-6	Trichloroethene	0.59	0.14	0.094	0.11	0.027	0.018	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG34-4

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-054

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02148

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.56 Final Pressure (psig): 3.85

Container Dilution Factor: 1.31

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.71	0.11	ND	0.16	0.024	
108-10-1	4-Methyl-2-pentanone	ND	1.4	0.096	ND	0.35	0.023	
10061-02-6	trans-1,3-Dichloropropene	ND	0.67	0.14	ND	0.15	0.032	
79-00-5	1,1,2-Trichloroethane	ND	0.14	0.071	ND	0.026	0.013	
108-88-3	Toluene	1.1	0.69	0.085	0.29	0.18	0.023	
591-78-6	2-Hexanone	0.13	1.4	0.086	0.033	0.35	0.021	J
124-48-1	Dibromochloromethane	ND	0.14	0.092	ND	0.017	0.011	
106-93-4	1,2-Dibromoethane	ND	0.14	0.081	ND	0.019	0.011	
127-18-4	Tetrachloroethene	0.21	0.14	0.090	0.031	0.021	0.013	
108-90-7	Chlorobenzene	ND	0.69	0.093	ND	0.15	0.020	
100-41-4	Ethylbenzene	0.15	0.69	0.098	0.035	0.16	0.023	J
179601-23-1	m,p-Xylenes	0.32	1.4	0.18	0.074	0.33	0.042	J
75-25-2	Bromoform	ND	0.71	0.14	ND	0.068	0.014	
100-42-5	Styrene	ND	0.69	0.11	ND	0.16	0.026	
95-47-6	o-Xylene	0.12	0.69	0.10	0.028	0.16	0.023	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	0.097	ND	0.021	0.014	
98-82-8	Cumene	ND	0.71	0.10	ND	0.14	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.69	0.10	ND	0.12	0.017	
106-46-7	1,4-Dichlorobenzene	ND	0.69	0.11	ND	0.12	0.018	
95-50-1	1,2-Dichlorobenzene	ND	0.71	0.10	ND	0.12	0.017	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.4	0.13	ND	0.15	0.014	
120-82-1	1,2,4-Trichlorobenzene	ND	1.4	0.17	ND	0.19	0.023	
79-20-9	Methyl Acetate	ND	0.66	0.31	ND	0.22	0.10	X
108-87-2	Methylcyclohexane	ND	0.66	0.34	ND	0.16	0.085	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS16\DATA\2023_03\24\03242317.D
 Acq On : 24 Mar 2023 15:43
 Sample : P2301250-054 (1000mL)
 Misc : S35-01312301

Vial: 3
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 24 21:02:23 2023

3/26/23

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:TO15B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	212868	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	986211	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.72	54	222512	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	385428	13.615	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	108.96%
57) Toluene-d8 (SS2)	15.87	98	1139255	11.695	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.52%
73) Bromofluorobenzene (SS3)	19.10	174	351453	11.567	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.56%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	4.34	85	68213	2.144	ng	100
4) Chloromethane	4.63	50	6899	0.232	ng	96
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	1600	0.090	ng	93
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.34	54	862	N.D.		
8) Bromomethane	5.77	94	257	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.47	45	44741	2.184	ng	94
11) Acetonitrile	6.74	41	4357	0.085	ng	# 57
12) Acrolein	6.94	56	3349	0.231	ng	97
13) Acetone	7.15	58	57750	3.686	ng	# 73
14) Trichlorofluoromethane	7.37	101	30089	1.025	ng	100
15) 2-Propanol (Isopropanol)	7.67	45	19705	0.361	ng	89
16) Acrylonitrile	7.89	53	406	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	8.60	59	1321	N.D.		
19) Methylene Chloride	8.56	84	10453	0.604	ng	93
20) 3-Chloro-1-propene (Al...	8.66	41	756	N.D.		
21) Trichlorotrifluoroethane	9.00	151	5756	0.394	ng	92
22) Carbon Disulfide	8.84	76	7666	0.124	ng	94
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	10.26	73	164	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	10.62	72	7337	0.646	ng	100
28) cis-1,2-Dichloroethene	11.11	61	792	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	11.42	61	140952	18.974	ng	96
31) n-Hexane	11.40	57	12231	0.329	ng	97
32) Chloroform	11.45	83	6162	0.217	ng	98
34) Tetrahydrofuran (THF)	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	12.26	62	1363	0.059	ng	84
38) 1,1,1-Trichloroethane	12.53	97	169	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.02	78	84591	1.218	ng	99
42) Carbon Tetrachloride	13.18	117	7863	0.348	ng	98
43) Cyclohexane	13.31	84	4241	0.145	ng	95
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	13.86	63	124	N.D.		
46) Bromodichloromethane	14.06	83	568	N.D.		
47) Trichloroethene	14.12	130	8521	0.451	ng	99
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	14.18	57	7358	0.079	ng	64
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS16\DATA\2023_03\24\03242317.D
 Acq On : 24 Mar 2023 15:43
 Sample : P2301250-054 (1000mL)
 Misc : S35-01312301

Vial: 3
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 24 21:02:23 2023
 Quant Method : I:\MS16\METHODS\R16122022.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Dec 21 03:06:38 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15B.M

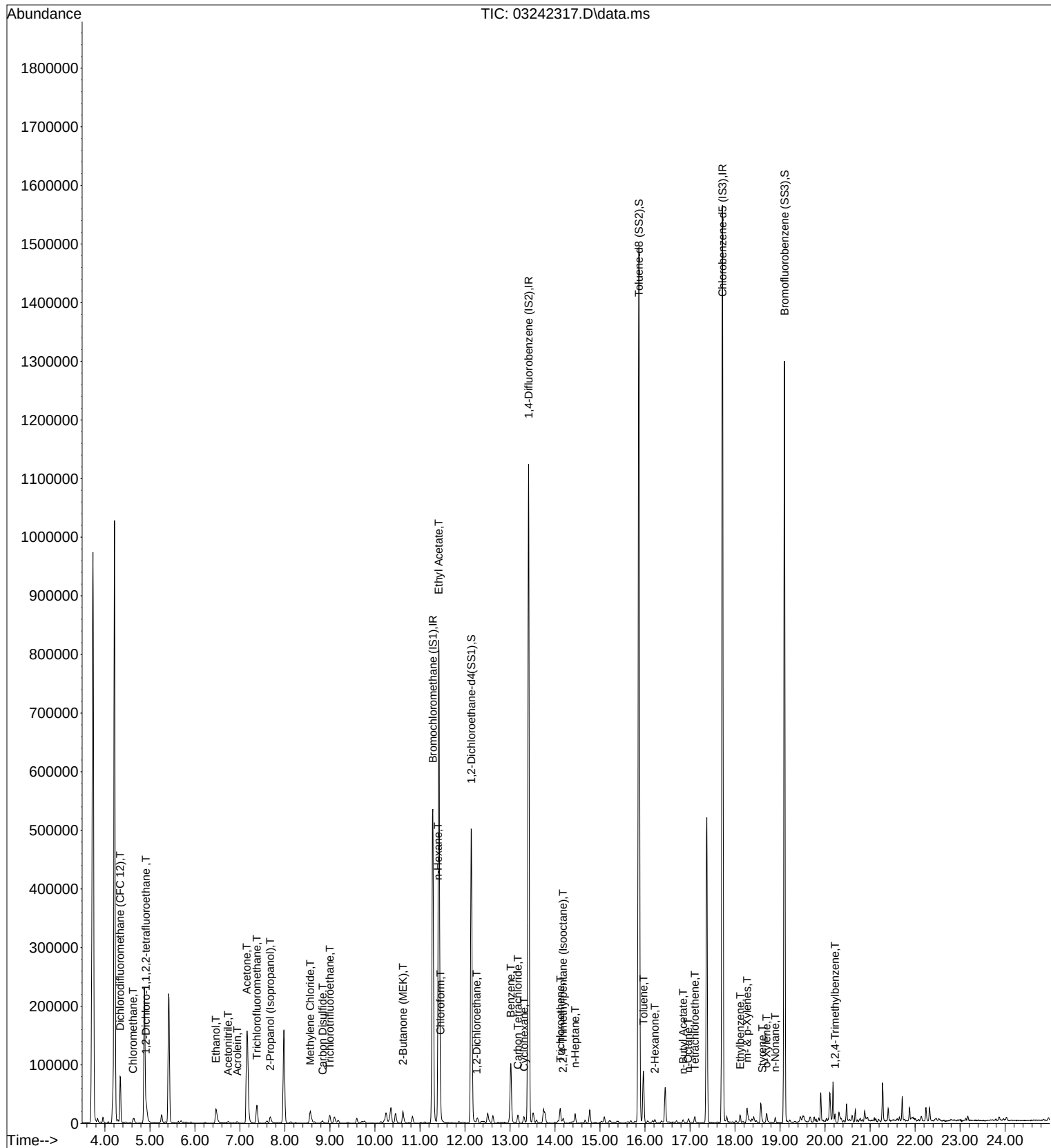
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.45	71	3889	0.191	ng	95
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.	d	
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.96	91	70353	0.825	ng	97
59) 2-Hexanone	16.22	43	4637	0.103	ng	78
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.84	43	4925	0.096	ng	92
63) n-Octane	16.96	57	1339	0.061	ng	96
64) Tetrachloroethene	17.11	166	3422	0.158	ng	99
65) Chlorobenzene	17.77	112	225	N.D.		
66) Ethylbenzene	18.11	91	11146	0.116	ng	98
67) m- & p-Xylenes	18.27	91	18642	0.245	ng	100
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.60	104	2844	0.053	ng	95
70) o-Xylene	18.70	91	6871	0.092	ng	97
71) n-Nonane	18.89	43	3973	0.074	ng	90
72) 1,1,2,2-Tetrachloroethane	18.71	83	194	N.D.		
74) Cumene	19.22	105	882	N.D.		
75) alpha-Pinene	19.57	93	861	N.D.		
76) n-Propylbenzene	19.67	91	2159	N.D.		
77) 3-Ethyltoluene	20.22	105	5953	No Calib	#	
78) 4-Ethyltoluene	19.80	105	2052	N.D.		
79) 1,3,5-Trimethylbenzene	19.86	105	2121	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.22	105	5953	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.22	105	5953	0.078	ng	83
83) n-Decane	20.31	58	126	No Calib	#	
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	20.41	146	129	N.D.		
86) 1,4-Dichlorobenzene	20.41	146	129	N.D.		
87) sec-Butylbenzene	20.46	105	307	N.D.		
88) 4-Isopropyltoluene (p-...	20.59	119	1734	N.D.		
89) 1,2,3-Trimethylbenzene	20.22	105	5953	No Calib	#	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	20.72	68	969	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	21.40	58	186	No Calib	#	
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	22.33	128	3349	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	18.17	55	1351	No Calib	#	
99) tert-Butylbenzene	20.23	119	910	N.D.		
100) n-Butylbenzene	20.94	91	2281	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\24\03242317.D
Acq On : 24 Mar 2023 15:43
Sample : P2301250-054 (1000mL)
Misc : S35-01312301

Vial: 3
Operator: WA
Inst : GCMS-16

Quant Time: Mar 24 21:02:23 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



Data File : I:\MS16\DATA\2023_03\24\03242317.D
 Acq On : 24 Mar 2023 15:43
 Sample : P2301250-054 (1000mL)
 Misc : S35-01312301

Vial: 3
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 24 21:02:23 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

3/24/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	212868	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	986211	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.72	54	222512	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	385428	13.615	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	108.96%
57) Toluene-d8 (SS2)	15.87	98	1139255	11.695	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.52%
73) Bromofluorobenzene (SS3)	19.10	174	351453	11.567	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.56%

Target Compounds

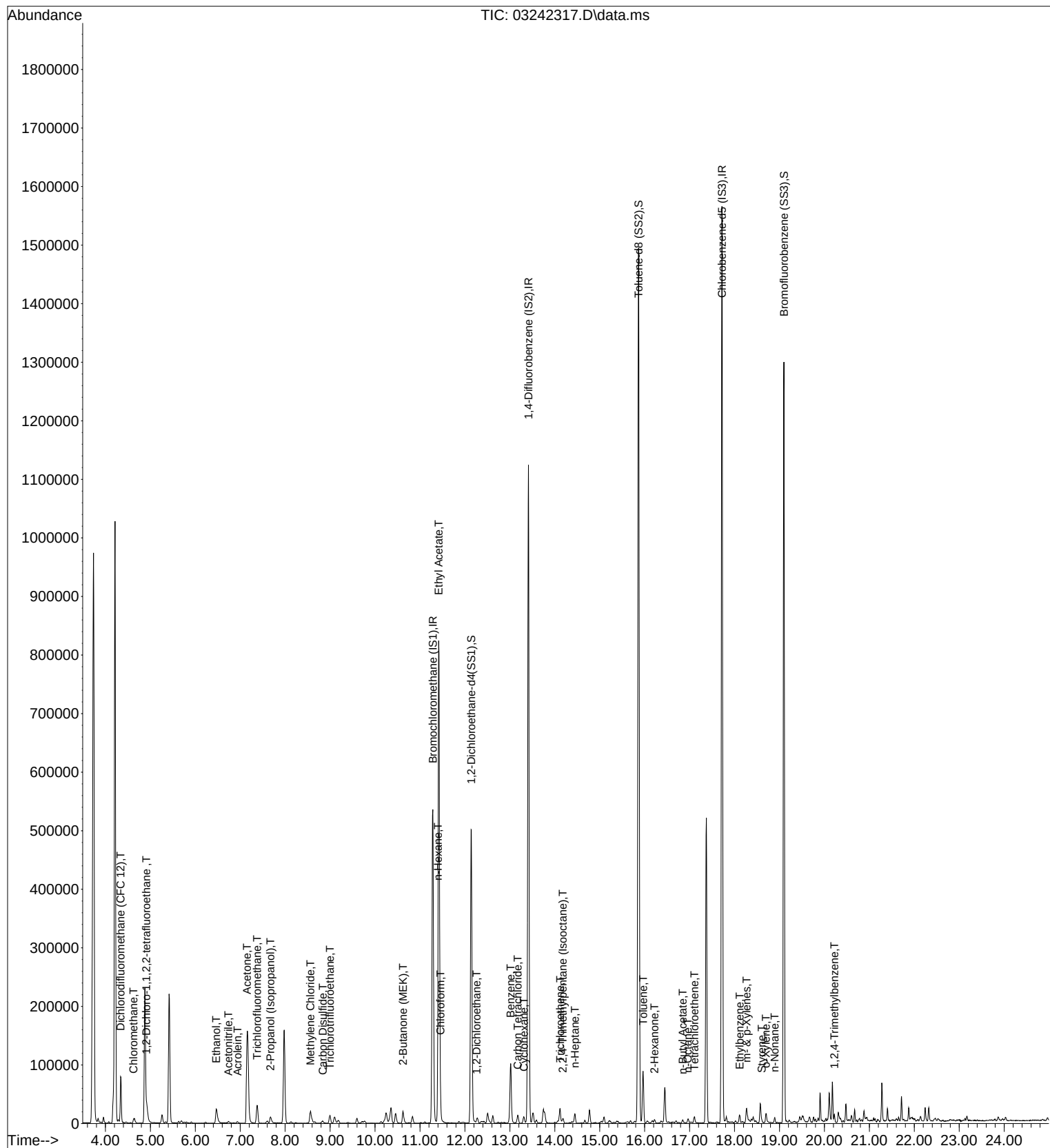
						Qvalue
3) Dichlorodifluoromethan...	4.34	85	68213	2.144	ng	100
4) Chloromethane	4.63	50	6899	0.232	ng	96
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	1600	0.090	ng	93
10) Ethanol	6.47	45	44741	2.184	ng	94
11) Acetonitrile	6.74	41	4357	0.085	ng	# 57
12) Acrolein	6.94	56	3349	0.231	ng	97
13) Acetone	7.15	58	57750	3.686	ng	# 73
14) Trichlorofluoromethane	7.37	101	30089	1.025	ng	100
15) 2-Propanol (Isopropanol)	7.67	45	19705	0.361	ng	89
19) Methylene Chloride	8.56	84	10453	0.604	ng	93
21) Trichlorotrifluoroethane	9.00	151	5756	0.394	ng	92
22) Carbon Disulfide	8.84	76	7666	0.124	ng	94
27) 2-Butanone (MEK)	10.62	72	7337	0.646	ng	100
30) Ethyl Acetate	11.42	61	140952	18.974	ng	96
31) n-Hexane	11.40	57	12231	0.329	ng	97
32) Chloroform	11.45	83	6162	0.217	ng	98
36) 1,2-Dichloroethane	12.26	62	1363	0.059	ng	84
41) Benzene	13.02	78	84591	1.218	ng	99
42) Carbon Tetrachloride	13.18	117	7863	0.348	ng	98
43) Cyclohexane	13.31	84	4241	0.145	ng	95
47) Trichloroethene	14.12	130	8521	0.451	ng	99
49) 2,2,4-Trimethylpentane...	14.18	57	7358	0.079	ng	64
51) n-Heptane	14.45	71	3889	0.191	ng	95
58) Toluene	15.96	91	70353	0.825	ng	97
59) 2-Hexanone	16.22	43	4637	0.103	ng	78
62) n-Butyl Acetate	16.84	43	4925	0.096	ng	92
63) n-Octane	16.96	57	1339	0.061	ng	96
64) Tetrachloroethene	17.11	166	3422	0.158	ng	99
66) Ethylbenzene	18.11	91	11146	0.116	ng	98
67) m- & p-Xylenes	18.27	91	18642	0.245	ng	100
69) Styrene	18.60	104	2844	0.053	ng	95
70) o-Xylene	18.70	91	6871	0.092	ng	97
71) n-Nonane	18.89	43	3973	0.074	ng	90
82) 1,2,4-Trimethylbenzene	20.22	105	5953	0.078	ng	83

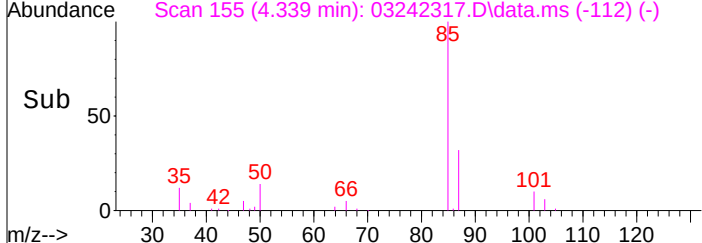
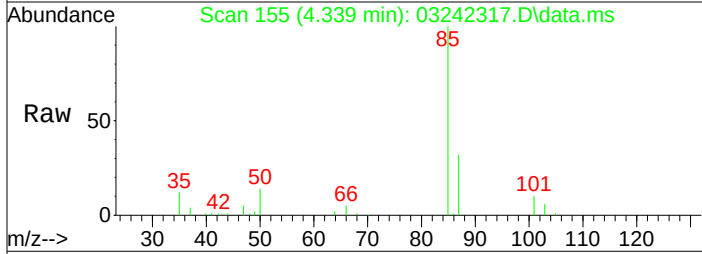
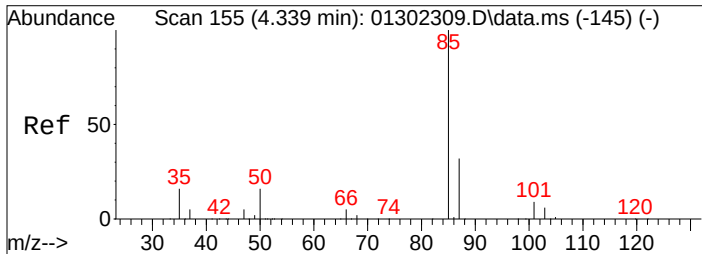
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS16\DATA\2023_03\24\03242317.D
Acq On : 24 Mar 2023 15:43
Sample : P2301250-054 (1000mL)
Misc : S35-01312301

Vial: 3
Operator: WA
Inst : GCMS-16

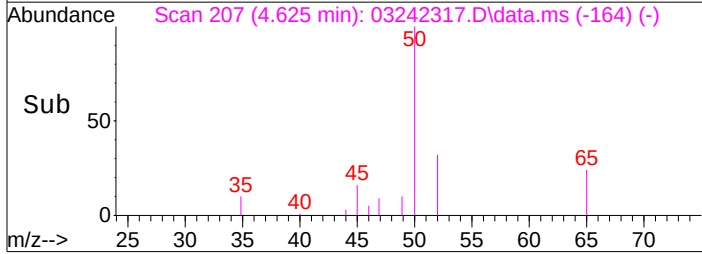
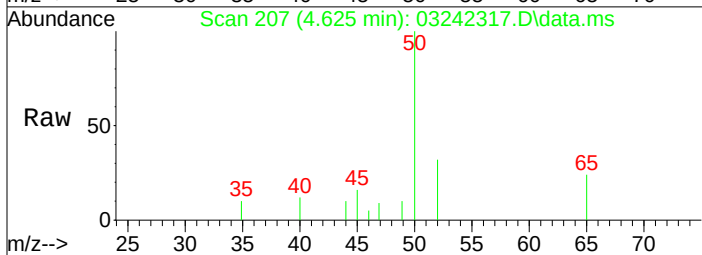
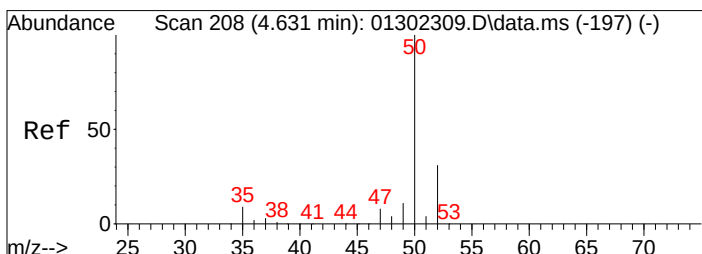
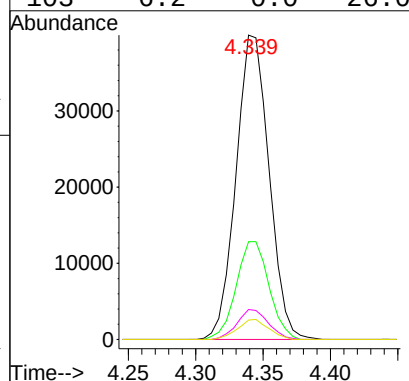
Quant Time: Mar 24 21:02:23 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M





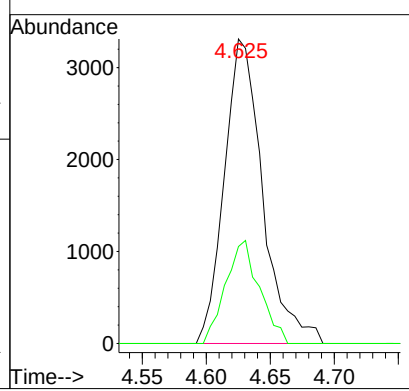
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 2.14 ng
 RT: 4.34 min Scan# 155
 Delta R.T. -0.011 min
 Lab File: 03242317.D
 Acq: 24 Mar 2023 15:43

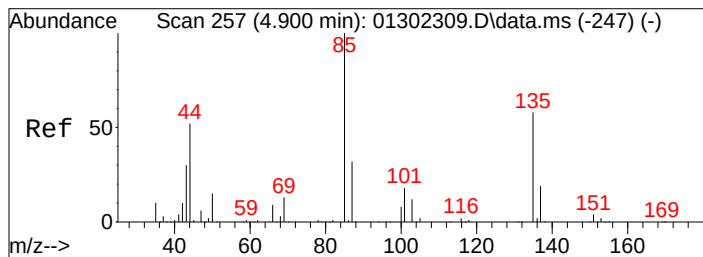
Tgt Ion:	85	Resp:	68213
Ion Ratio		Lower	Upper
85	100		
87	31.9	12.1	52.1
101	9.3	0.0	29.3
103	6.2	0.0	26.0



#4
 Chloromethane
 Concen: 0.23 ng
 RT: 4.63 min Scan# 207
 Delta R.T. -0.011 min
 Lab File: 03242317.D
 Acq: 24 Mar 2023 15:43

Tgt Ion:	50	Resp:	6899
Ion Ratio		Lower	Upper
50	100		
52	29.8	12.2	52.2





#5

1,2-Dichloro-1,1,2,2-tetrafluoroethane

Concen: 0.09 ng

RT: 4.91 min Scan# 259

Delta R.T. 0.006 min

Lab File: 03242317.D

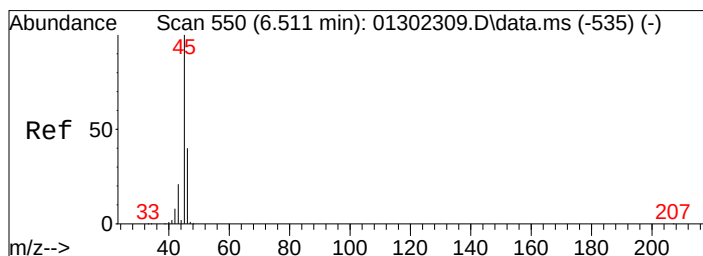
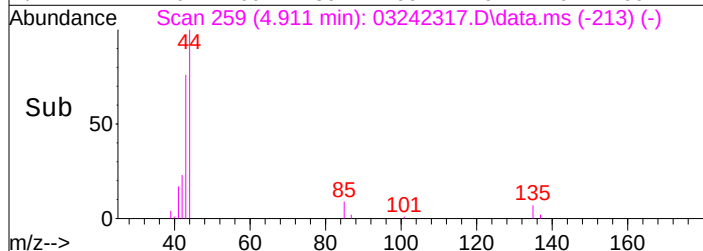
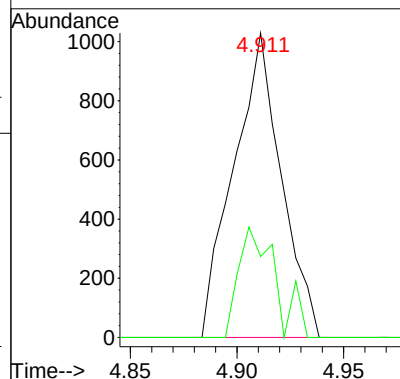
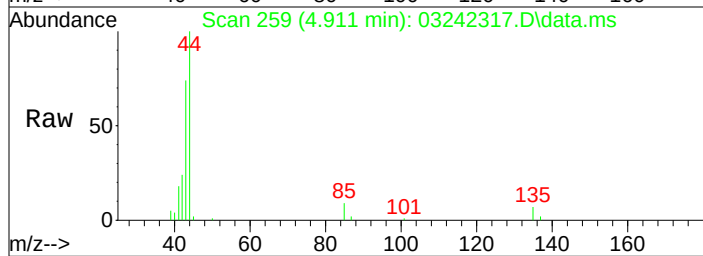
Acq: 24 Mar 2023 15:43

Tgt Ion: 135 Resp: 1600

Ion Ratio Lower Upper

135 100

137 28.2 12.0 52.0



#10

Ethanol

Concen: 2.18 ng

RT: 6.47 min Scan# 542

Delta R.T. -0.011 min

Lab File: 03242317.D

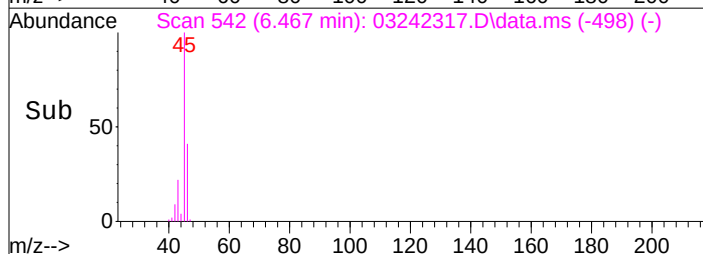
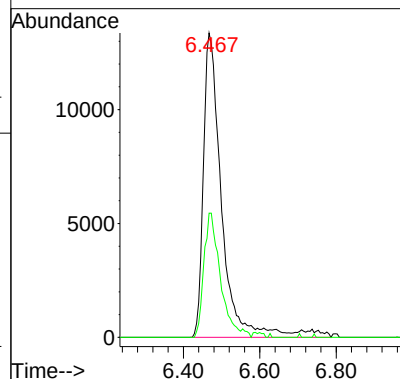
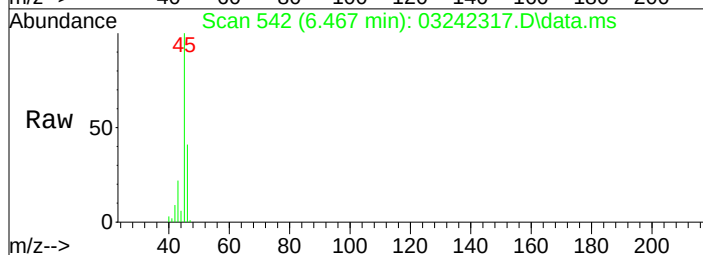
Acq: 24 Mar 2023 15:43

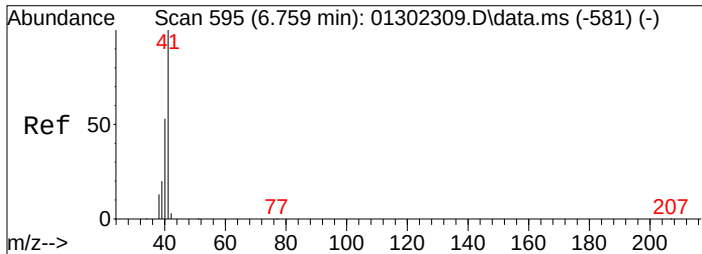
Tgt Ion: 45 Resp: 44741

Ion Ratio Lower Upper

45 100

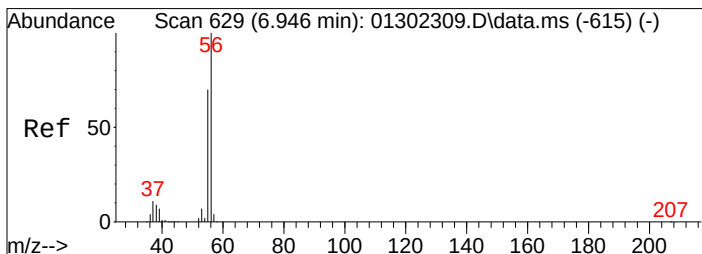
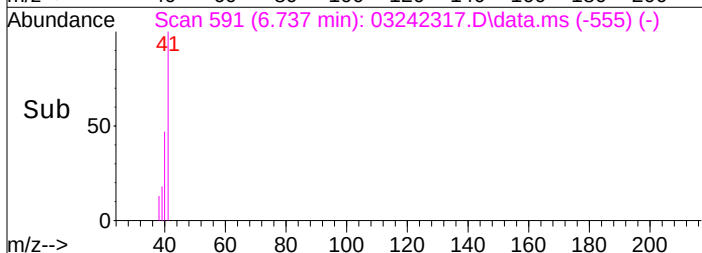
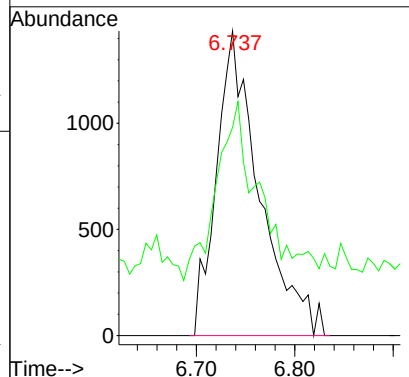
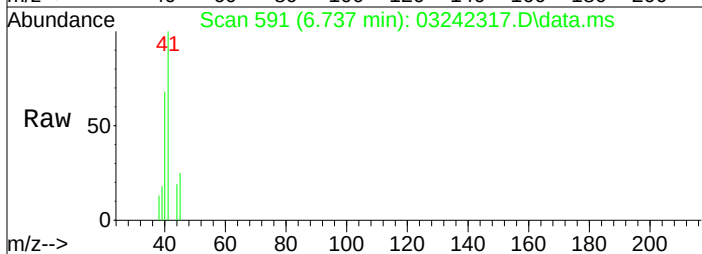
46 36.8 20.5 60.5





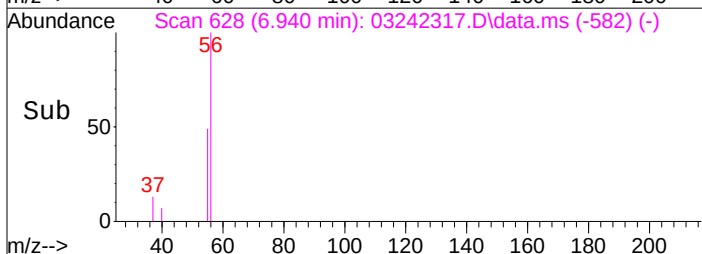
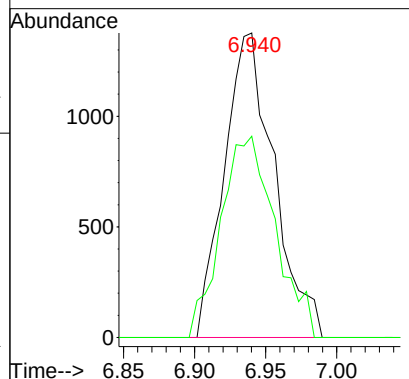
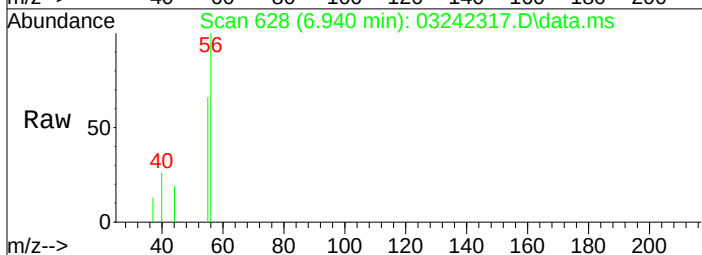
#11
Acetonitrile
Concen: 0.08 ng
RT: 6.74 min Scan# 591
Delta R.T. -0.000 min
Lab File: 03242317.D
Acq: 24 Mar 2023 15:43

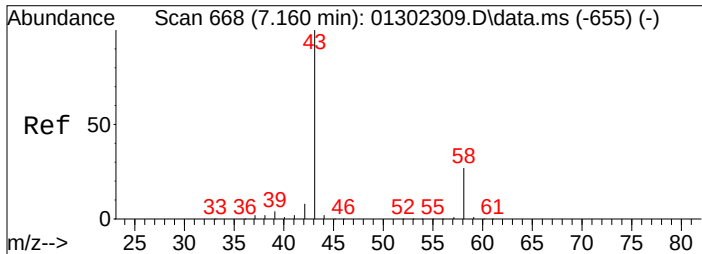
Tgt Ion: 41 Resp: 4357
Ion Ratio Lower Upper
41 100
40 83.0 32.4 72.4#



#12
Acrolein
Concen: 0.23 ng
RT: 6.94 min Scan# 628
Delta R.T. 0.005 min
Lab File: 03242317.D
Acq: 24 Mar 2023 15:43

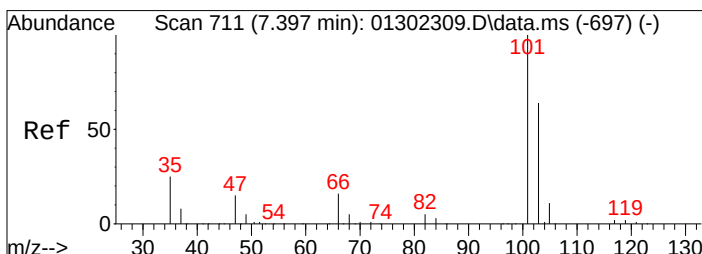
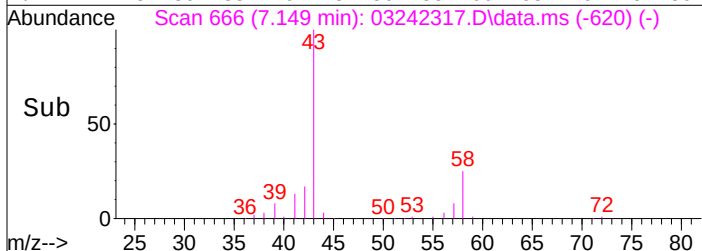
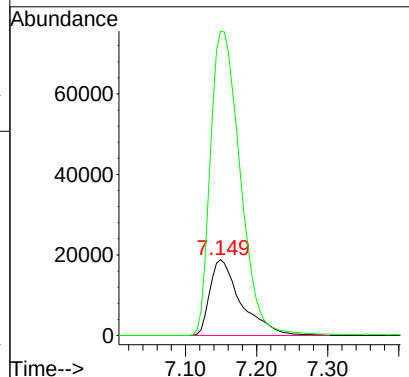
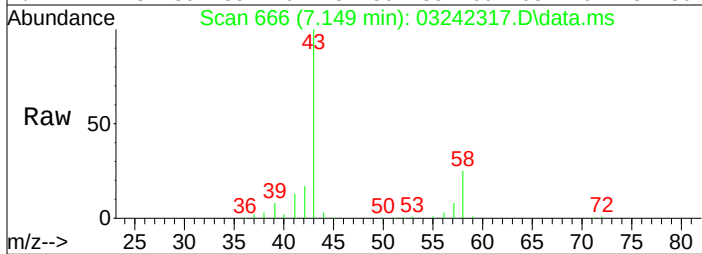
Tgt Ion: 56 Resp: 3349
Ion Ratio Lower Upper
56 100
55 72.1 49.9 89.9





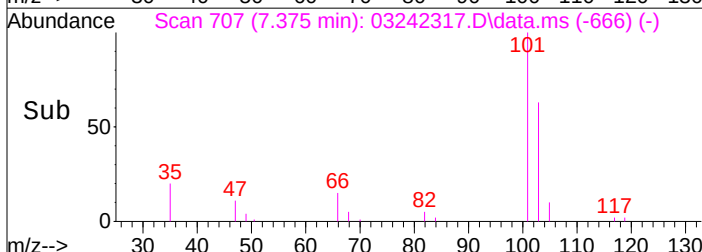
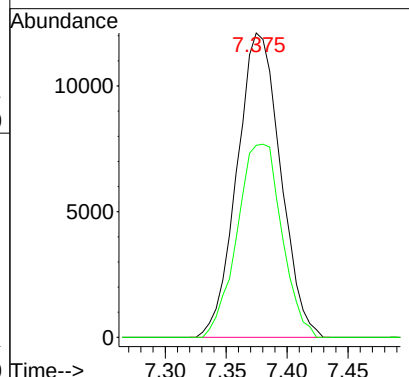
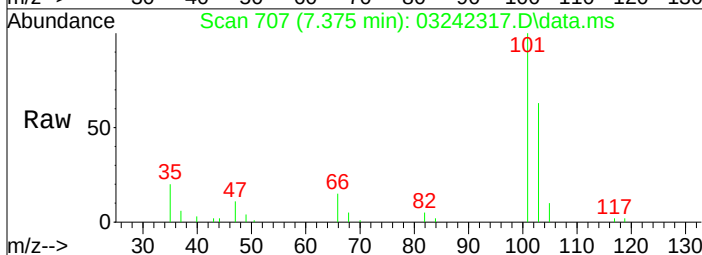
#13
 Acetone
 Concen: 3.69 ng
 RT: 7.15 min Scan# 666
 Delta R.T. 0.005 min
 Lab File: 03242317.D
 Acq: 24 Mar 2023 15:43

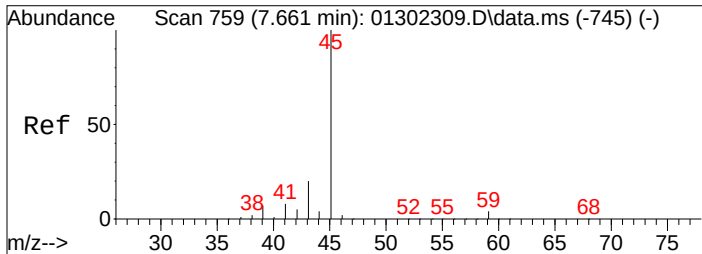
Tgt Ion: 58 Resp: 57750
 Ion Ratio Lower Upper
 58 100
 43 383.8 298.5 358.5#



#14
 Trichlorofluoromethane
 Concen: 1.03 ng
 RT: 7.37 min Scan# 707
 Delta R.T. -0.022 min
 Lab File: 03242317.D
 Acq: 24 Mar 2023 15:43

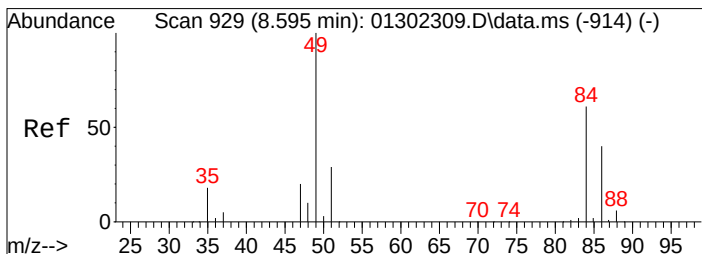
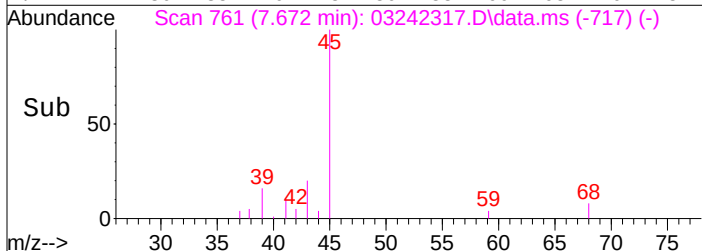
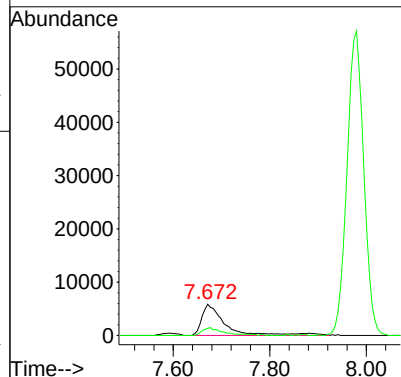
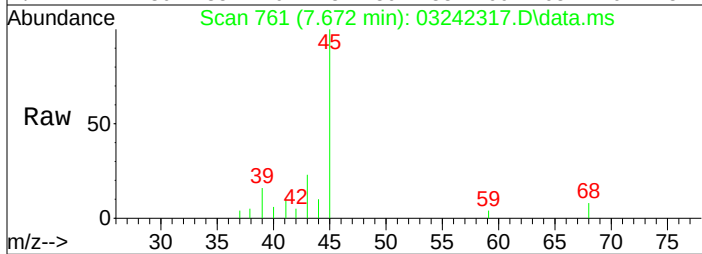
Tgt Ion: 101 Resp: 30089
 Ion Ratio Lower Upper
 101 100
 103 65.0 44.8 84.8





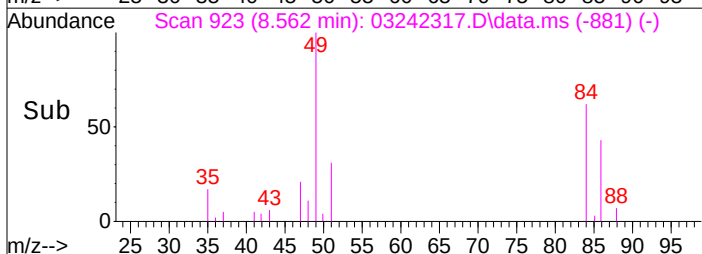
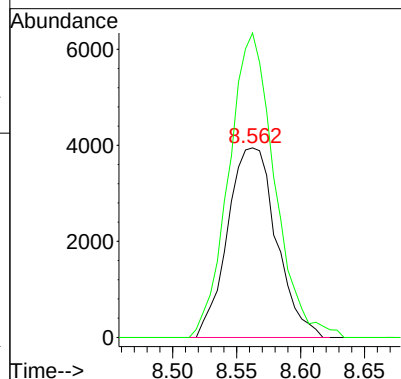
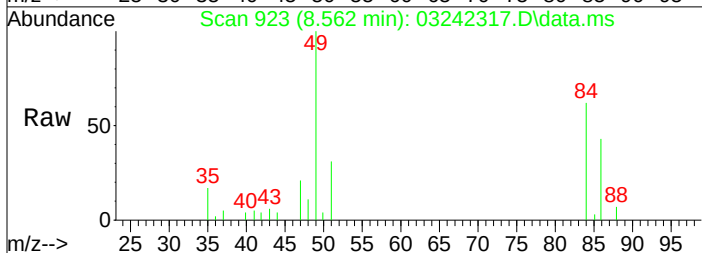
#15
 2-Propanol (Isopropanol)
 Concen: 0.36 ng
 RT: 7.67 min Scan# 761
 Delta R.T. -0.008 min
 Lab File: 03242317.D
 Acq: 24 Mar 2023 15:43

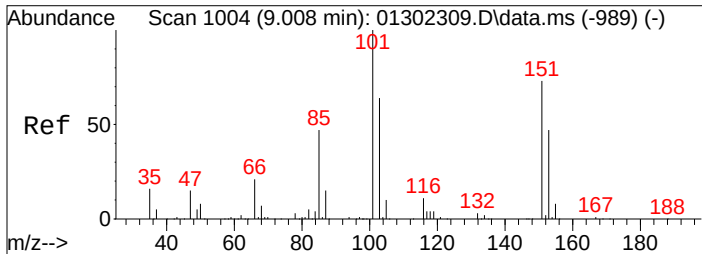
Tgt Ion:	45	Resp:	19705
Ion Ratio		Lower	Upper
45	100		
43	22.6	0.0	37.9



#19
 Methylene Chloride
 Concen: 0.60 ng
 RT: 8.56 min Scan# 923
 Delta R.T. -0.016 min
 Lab File: 03242317.D
 Acq: 24 Mar 2023 15:43

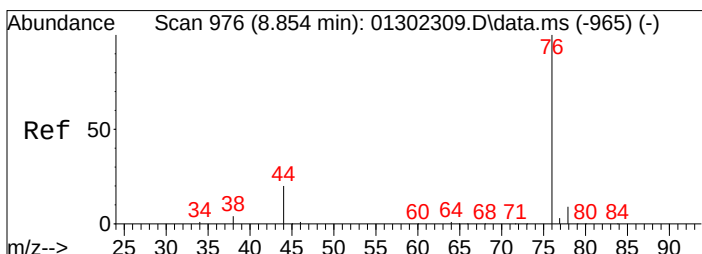
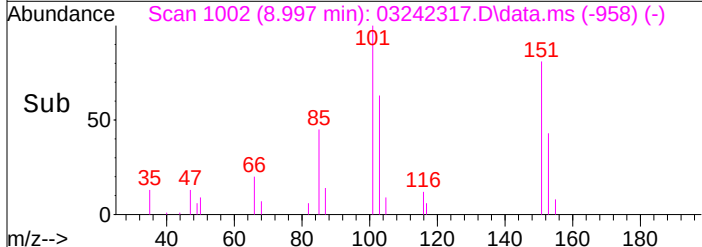
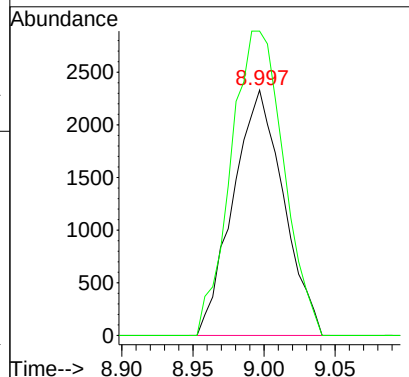
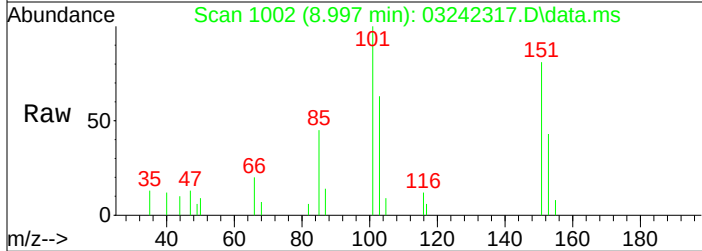
Tgt Ion:	84	Resp:	10453
Ion Ratio		Lower	Upper
84	100		
49	151.0	135.0	185.0





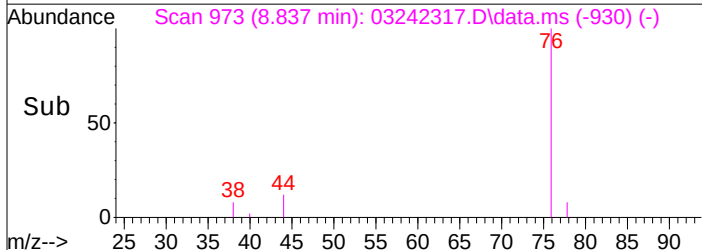
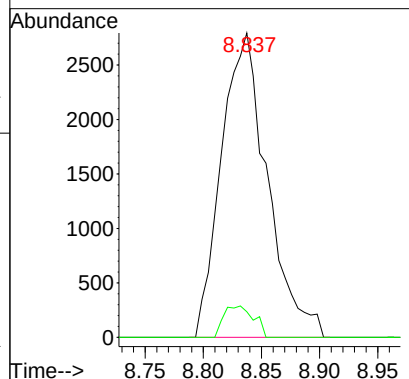
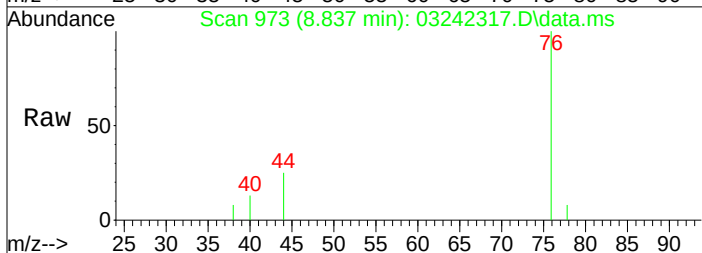
#21
 Trichlorotrifluoroethane
 Concen: 0.39 ng
 RT: 9.00 min Scan# 1002
 Delta R.T. -0.005 min
 Lab File: 03242317.D
 Acq: 24 Mar 2023 15:43

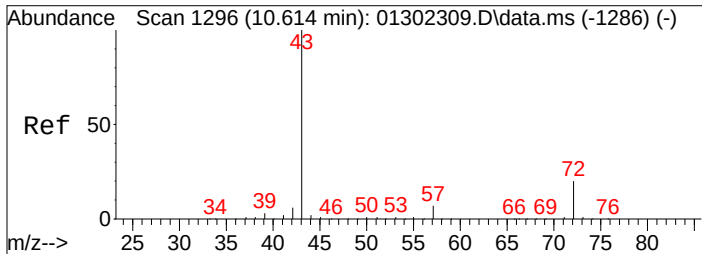
Tgt Ion	Resp	Lower	Upper
151	5756		
101	100	129.9	141.5



#22
 Carbon Disulfide
 Concen: 0.12 ng
 RT: 8.84 min Scan# 973
 Delta R.T. -0.011 min
 Lab File: 03242317.D
 Acq: 24 Mar 2023 15:43

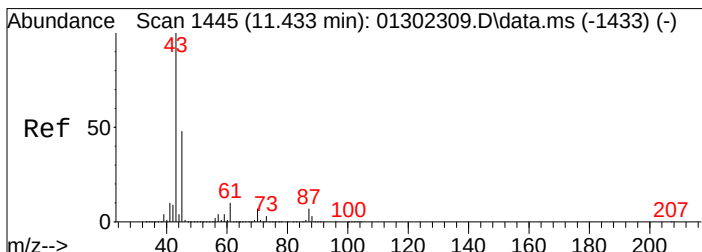
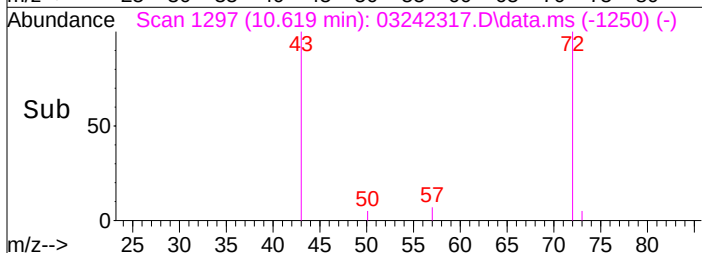
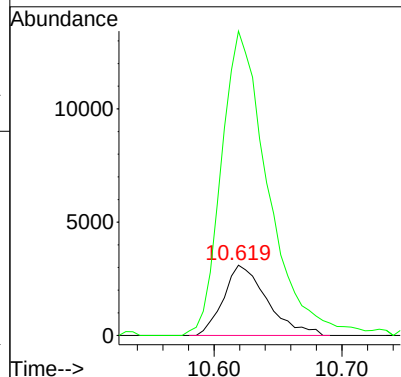
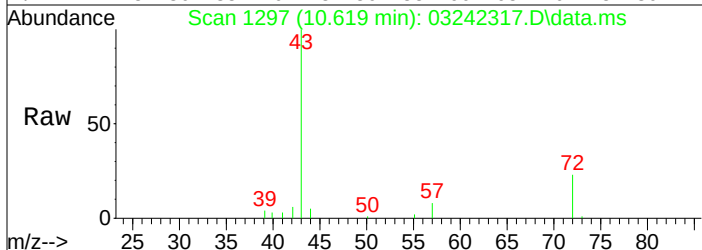
Tgt Ion	Resp	Lower	Upper
76	7666		
78	100	6.8	29.1





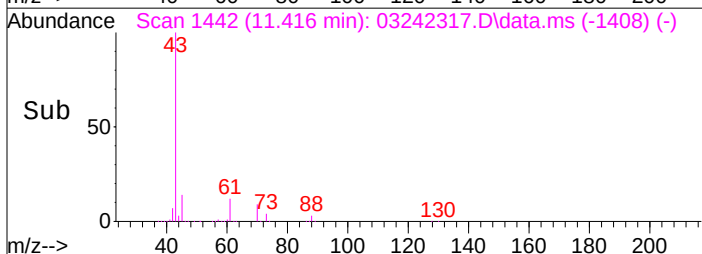
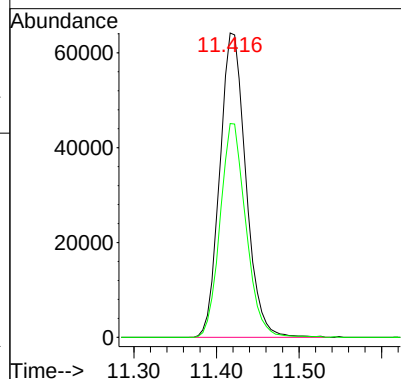
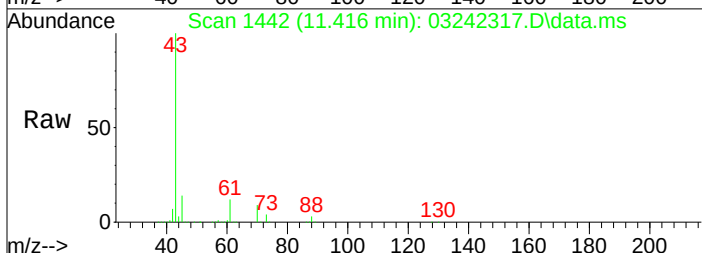
#27
 2-Butanone (MEK)
 Concen: 0.65 ng
 RT: 10.62 min Scan# 1297
 Delta R.T. 0.011 min
 Lab File: 03242317.D
 Acq: 24 Mar 2023 15:43

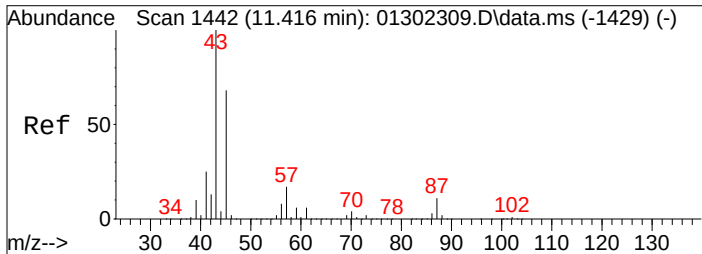
Tgt Ion: 72 Resp: 7337
 Ion Ratio Lower Upper
 72 100
 43 468.6 449.4 489.4



#30
 Ethyl Acetate
 Concen: 18.97 ng
 RT: 11.42 min Scan# 1442
 Delta R.T. -0.011 min
 Lab File: 03242317.D
 Acq: 24 Mar 2023 15:43

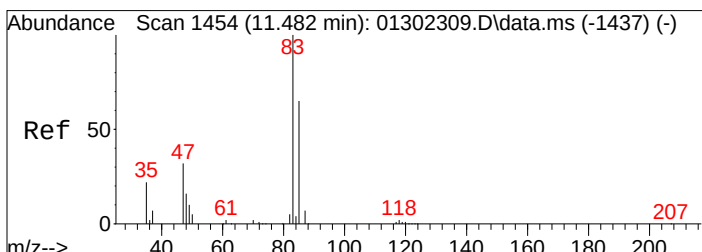
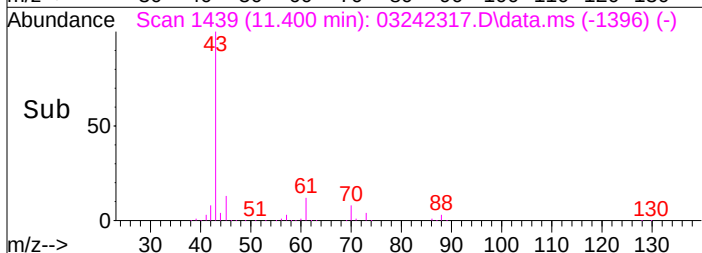
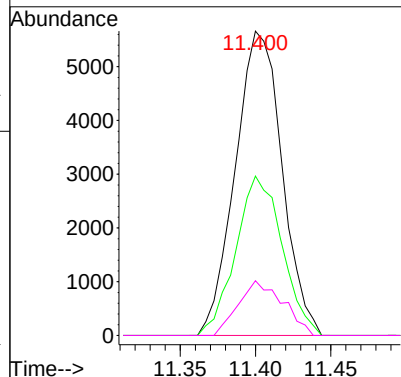
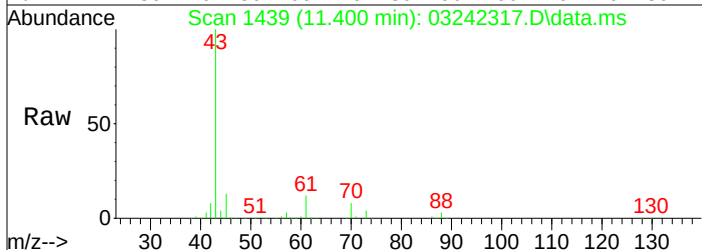
Tgt Ion: 61 Resp: 140952
 Ion Ratio Lower Upper
 61 100
 70 69.6 52.8 92.8





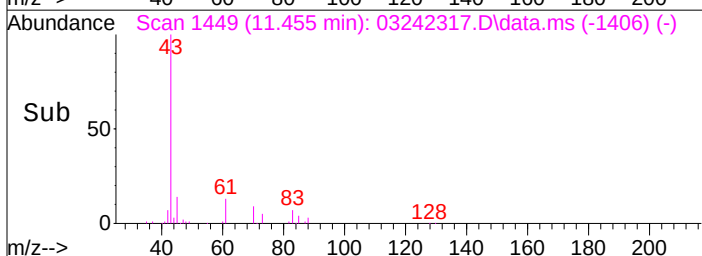
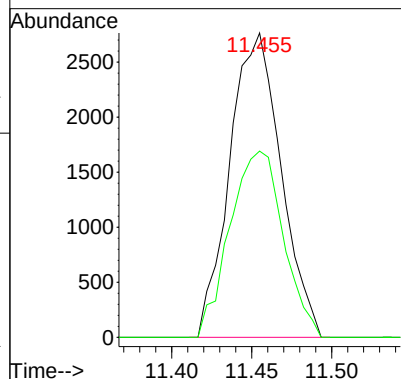
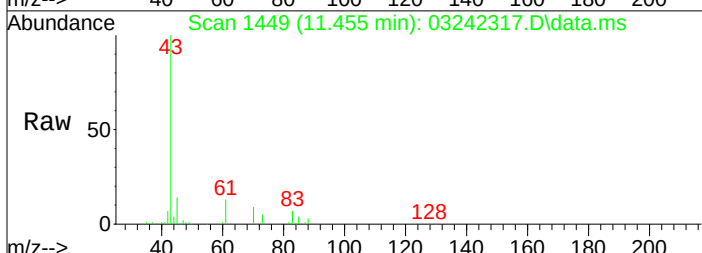
#31
n-Hexane
Concen: 0.33 ng
RT: 11.40 min Scan# 1439
Delta R.T. -0.011 min
Lab File: 03242317.D
Acq: 24 Mar 2023 15:43

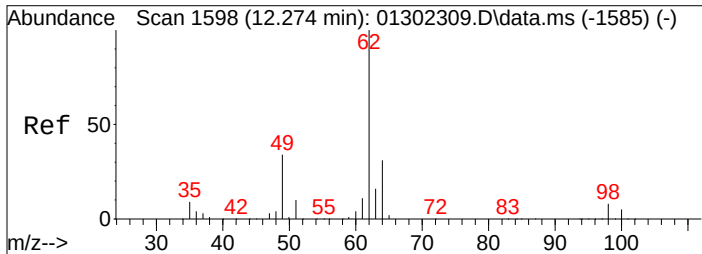
Tgt Ion:	57	Resp:	12231
Ion Ratio		Lower	Upper
57	100		
56	52.0	39.9	59.9
86	17.2	12.3	18.5



#32
Chloroform
Concen: 0.22 ng
RT: 11.45 min Scan# 1449
Delta R.T. -0.011 min
Lab File: 03242317.D
Acq: 24 Mar 2023 15:43

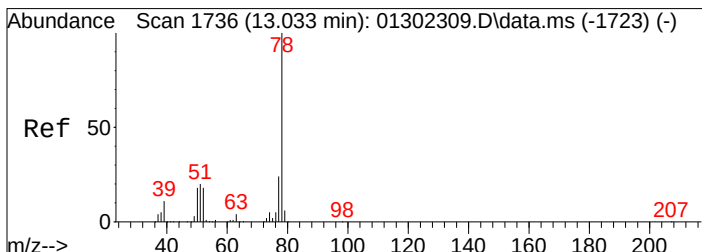
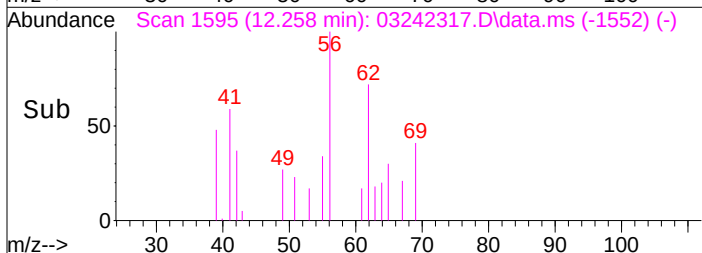
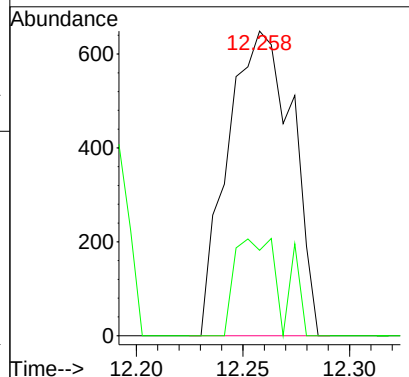
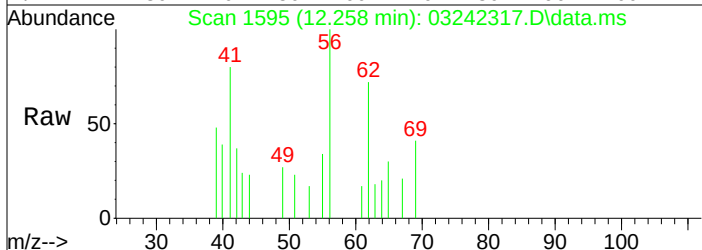
Tgt Ion:	83	Resp:	6162
Ion Ratio		Lower	Upper
83	100		
85	63.8	45.5	85.5





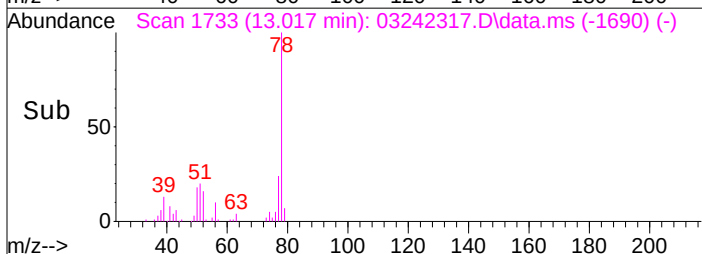
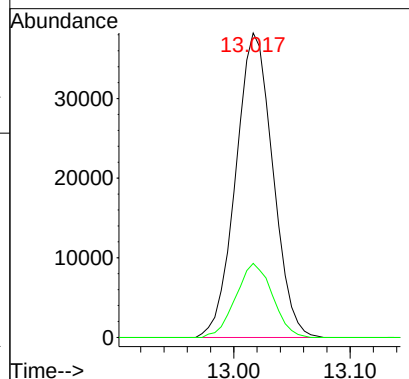
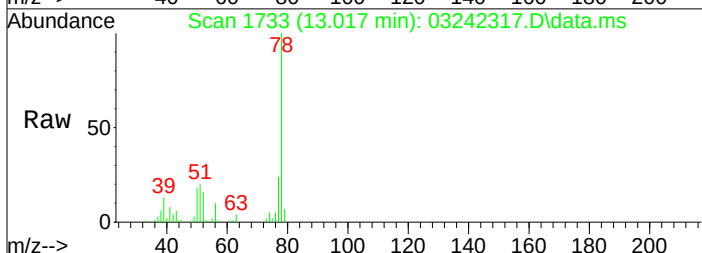
#36
 1,2-Dichloroethane
 Concen: 0.06 ng
 RT: 12.26 min Scan# 1595
 Delta R.T. -0.011 min
 Lab File: 03242317.D
 Acq: 24 Mar 2023 15:43

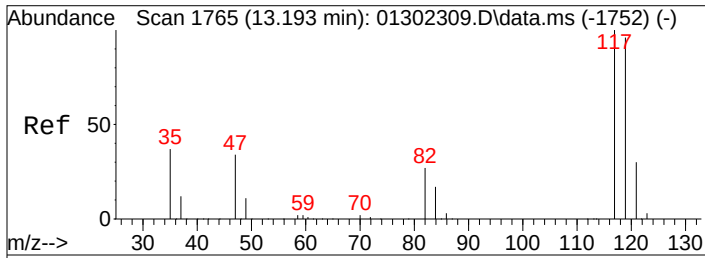
Tgt Ion: 62 Resp: 1363
 Ion Ratio Lower Upper
 62 100
 64 23.7 12.5 52.5



#41
 Benzene
 Concen: 1.22 ng
 RT: 13.02 min Scan# 1733
 Delta R.T. -0.011 min
 Lab File: 03242317.D
 Acq: 24 Mar 2023 15:43

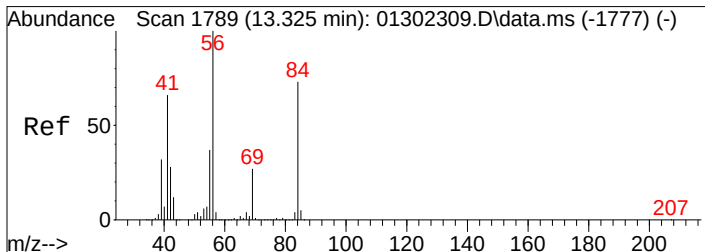
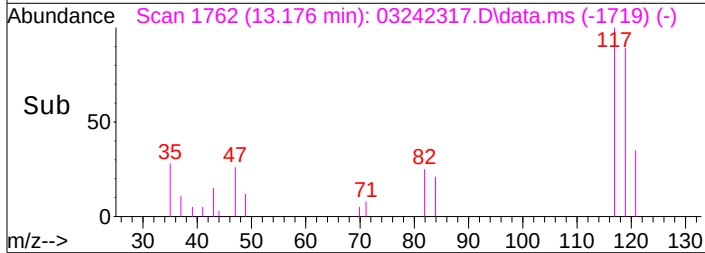
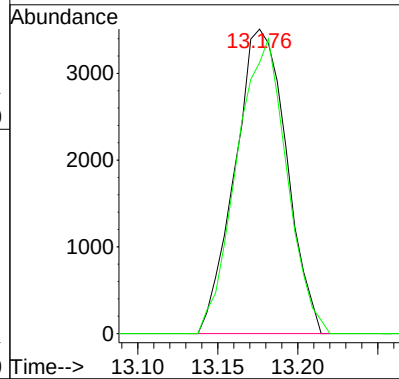
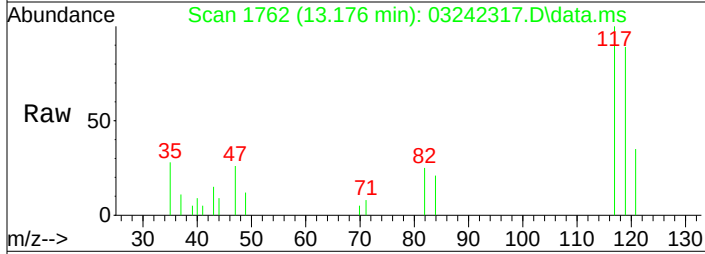
Tgt Ion: 78 Resp: 84591
 Ion Ratio Lower Upper
 78 100
 77 24.0 3.3 43.3





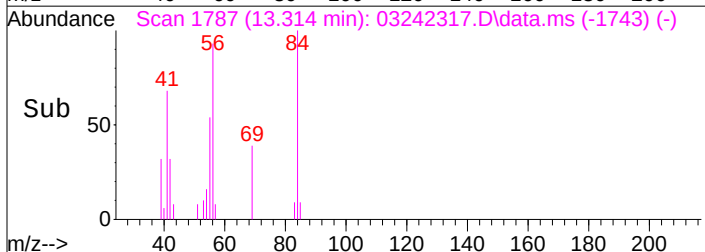
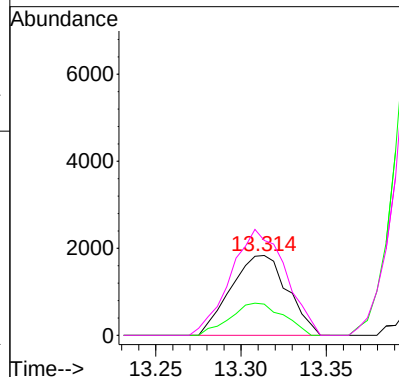
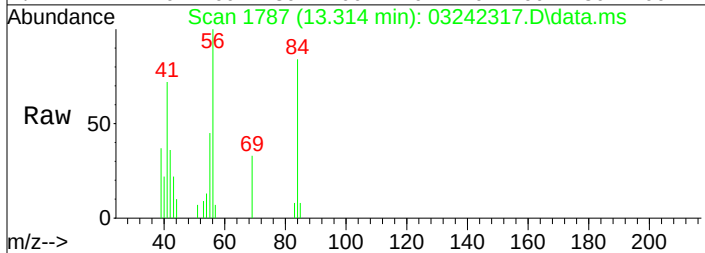
#42
Carbon Tetrachloride
Concen: 0.35 ng
RT: 13.18 min Scan# 1762
Delta R.T. -0.011 min
Lab File: 03242317.D
Acq: 24 Mar 2023 15:43

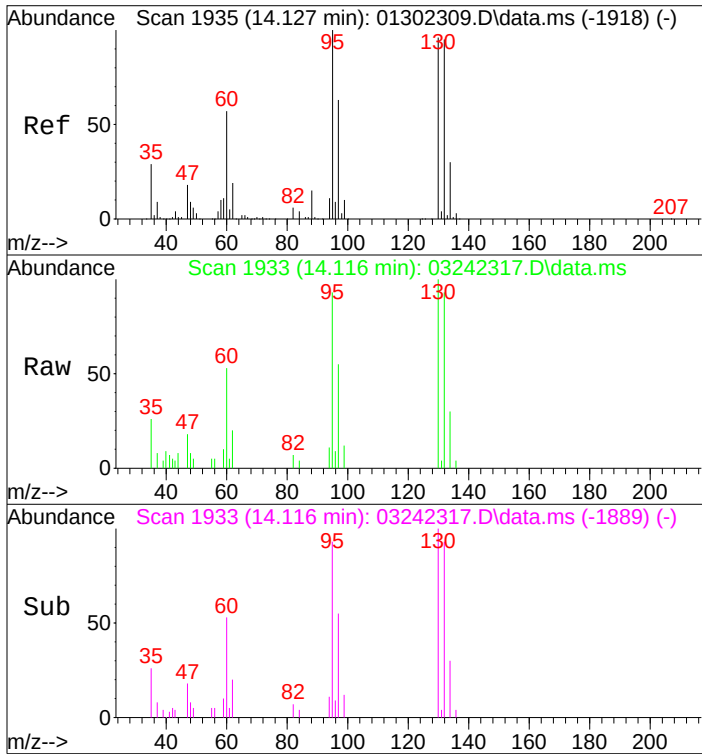
Tgt Ion: 117 Resp: 7863
Ion Ratio Lower Upper
117 100
119 94.0 76.2 116.2



#43
Cyclohexane
Concen: 0.14 ng
RT: 13.31 min Scan# 1787
Delta R.T. -0.005 min
Lab File: 03242317.D
Acq: 24 Mar 2023 15:43

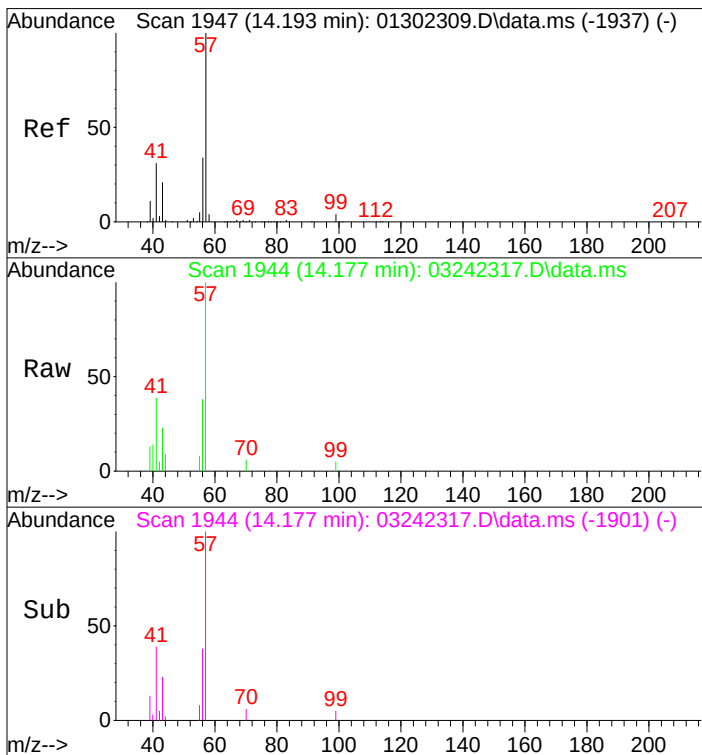
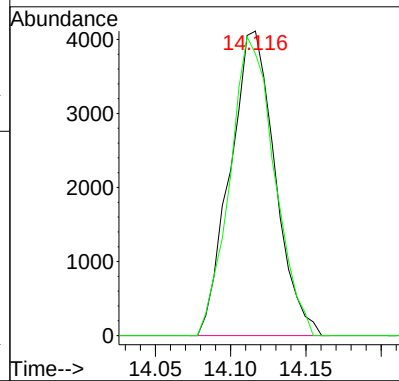
Tgt Ion: 84 Resp: 4241
Ion Ratio Lower Upper
84 100
69 38.0 16.2 56.2
56 129.2 115.2 155.2





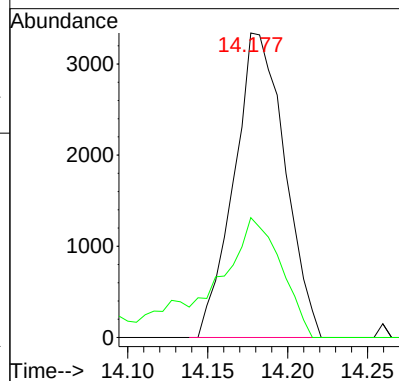
#47
 Trichloroethene
 Concen: 0.45 ng
 RT: 14.12 min Scan# 1933
 Delta R.T. -0.005 min
 Lab File: 03242317.D
 Acq: 24 Mar 2023 15:43

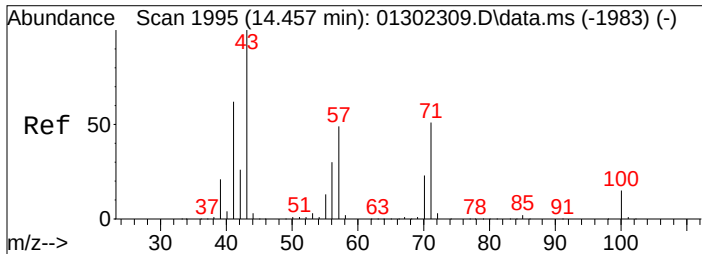
Tgt Ion:130 Resp: 8521
 Ion Ratio Lower Upper
 130 100
 132 97.4 78.7 118.7



#49
 2,2,4-Trimethylpentane (Isooctane)
 Concen: 0.08 ng
 RT: 14.18 min Scan# 1944
 Delta R.T. -0.011 min
 Lab File: 03242317.D
 Acq: 24 Mar 2023 15:43

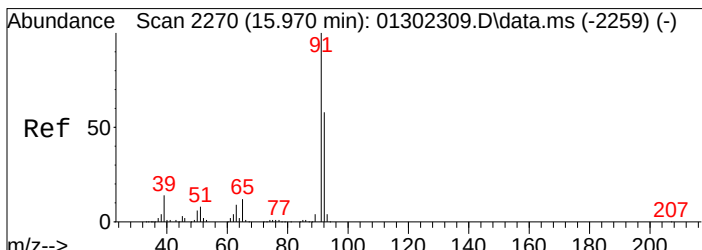
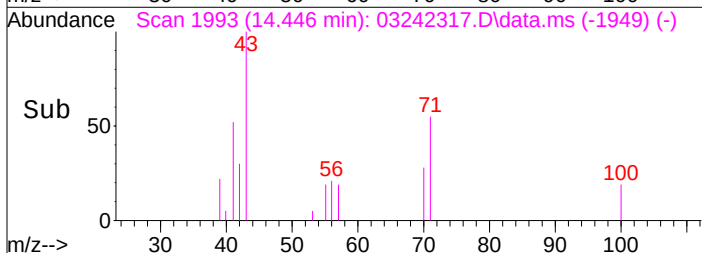
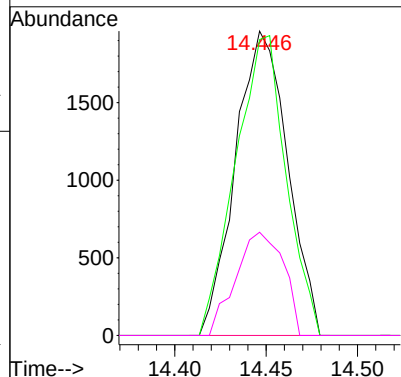
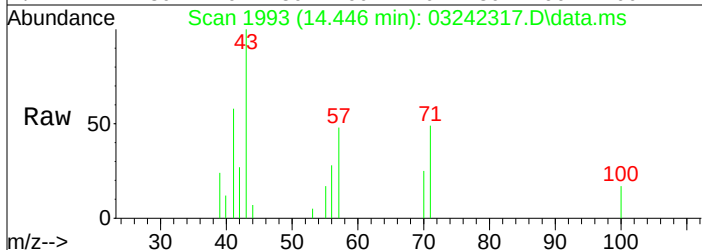
Tgt Ion: 57 Resp: 7358
 Ion Ratio Lower Upper
 57 100
 41 44.0 5.8 45.8





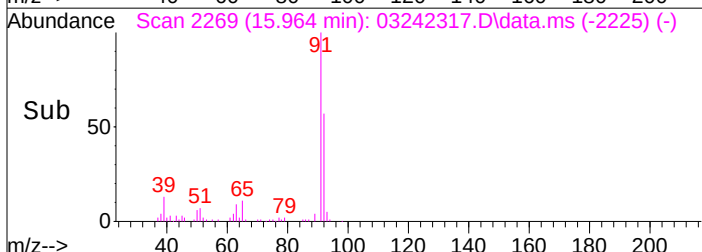
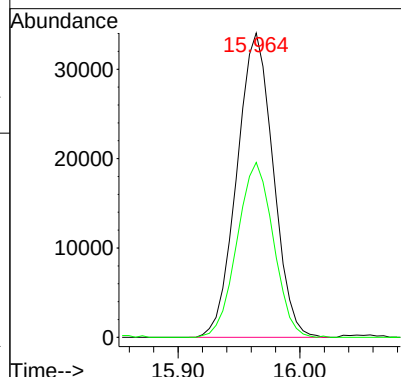
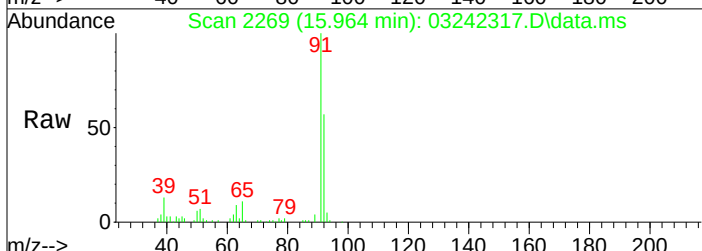
#51
n-Heptane
Concen: 0.19 ng
RT: 14.45 min Scan# 1993
Delta R.T. -0.005 min
Lab File: 03242317.D
Acq: 24 Mar 2023 15:43

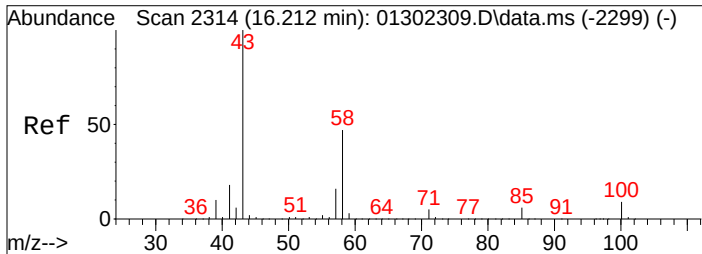
Tgt Ion:	71	Resp:	3889
Ion Ratio	Lower	Upper	
71	100		
57	95.7	81.4	121.4
100	31.0	11.8	51.8



#58
Toluene
Concen: 0.82 ng
RT: 15.96 min Scan# 2269
Delta R.T. -0.005 min
Lab File: 03242317.D
Acq: 24 Mar 2023 15:43

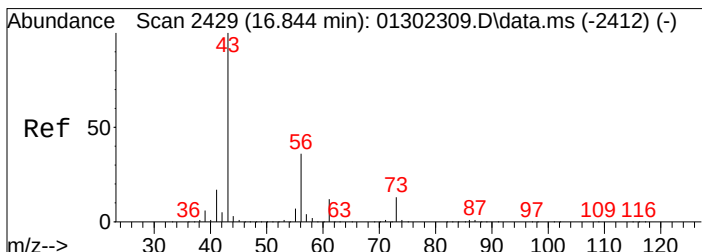
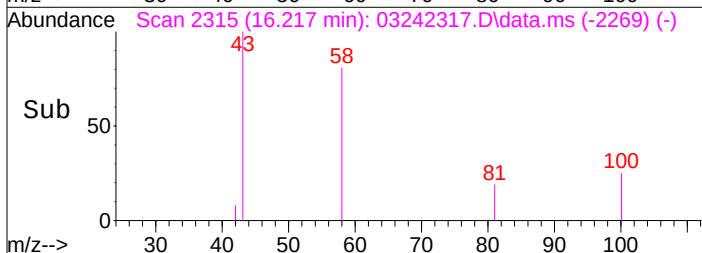
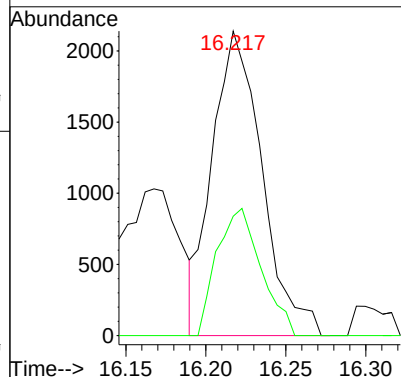
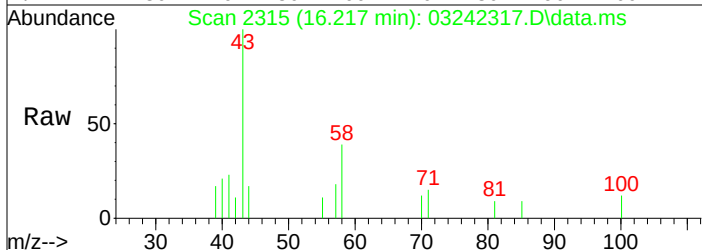
Tgt Ion:	91	Resp:	70353
Ion Ratio	Lower	Upper	
91	100		
92	57.4	39.8	79.8





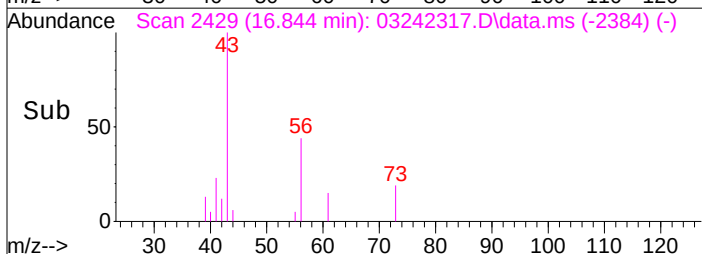
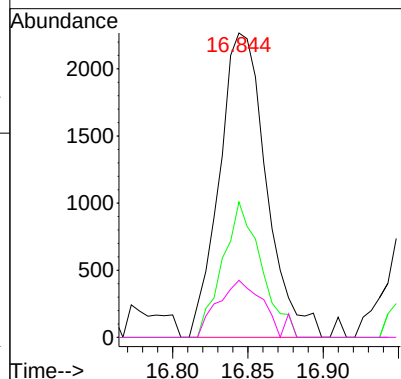
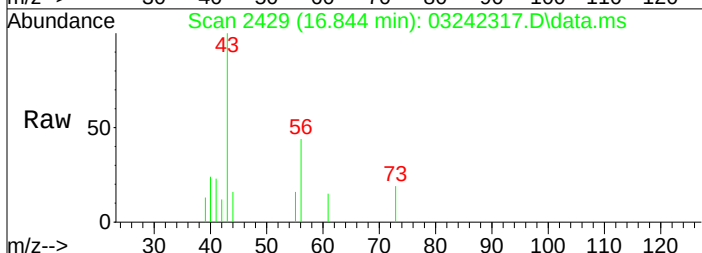
#59
2-Hexanone
Concen: 0.10 ng
RT: 16.22 min Scan# 2315
Delta R.T. 0.006 min
Lab File: 03242317.D
Acq: 24 Mar 2023 15:43

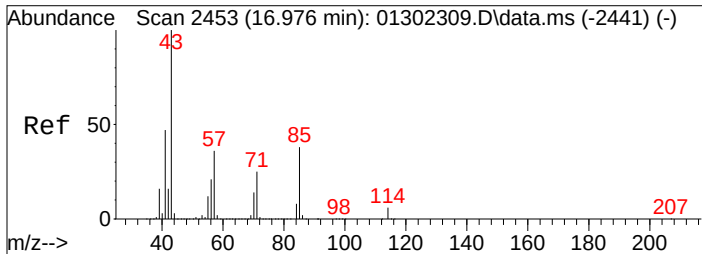
Tgt Ion: 43 Resp: 4637
Ion Ratio Lower Upper
43 100
58 37.0 32.3 72.3



#62
n-Butyl Acetate
Concen: 0.10 ng
RT: 16.84 min Scan# 2429
Delta R.T. -0.000 min
Lab File: 03242317.D
Acq: 24 Mar 2023 15:43

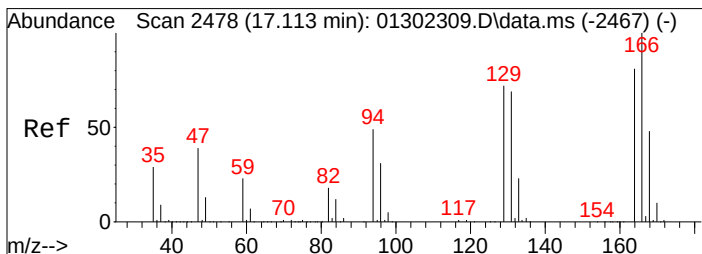
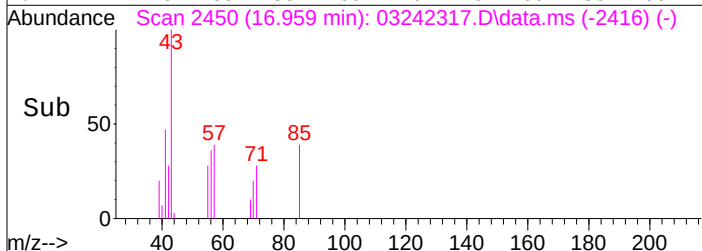
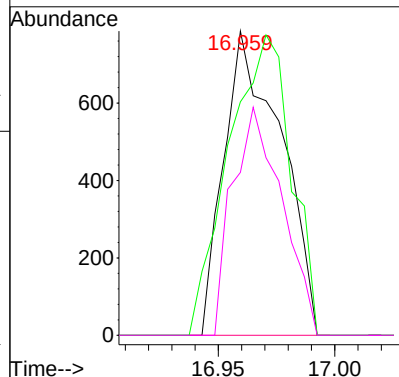
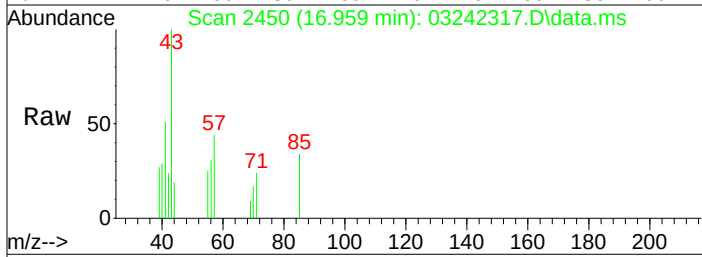
Tgt Ion: 43 Resp: 4925
Ion Ratio Lower Upper
43 100
56 36.6 21.0 61.0
73 18.6 0.0 34.3





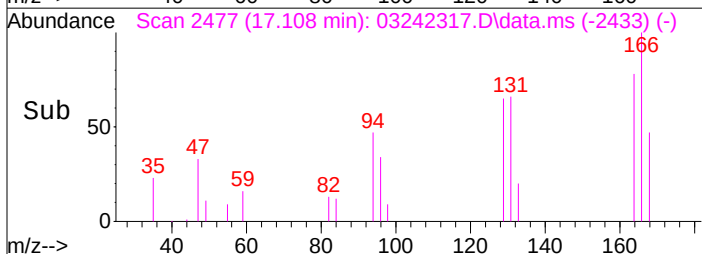
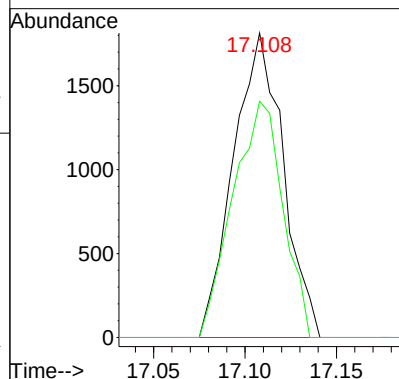
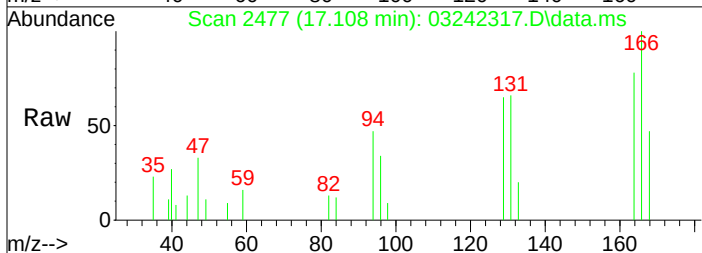
#63
n-Octane
Concen: 0.06 ng
RT: 16.96 min Scan# 2450
Delta R.T. -0.011 min
Lab File: 03242317.D
Acq: 24 Mar 2023 15:43

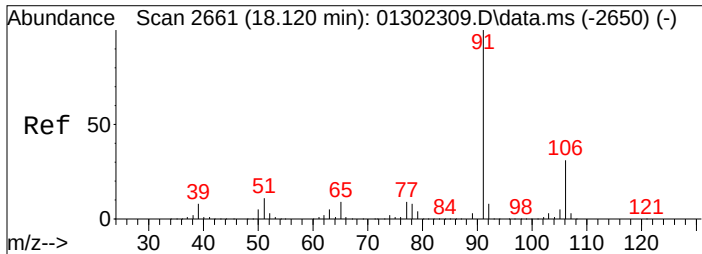
Tgt Ion: 57 Resp: 1339
Ion Ratio Lower Upper
57 100
85 108.1 81.4 122.2
71 65.0 51.7 77.5



#64
Tetrachloroethene
Concen: 0.16 ng
RT: 17.11 min Scan# 2477
Delta R.T. -0.005 min
Lab File: 03242317.D
Acq: 24 Mar 2023 15:43

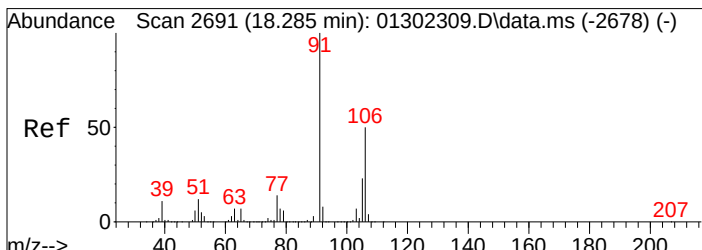
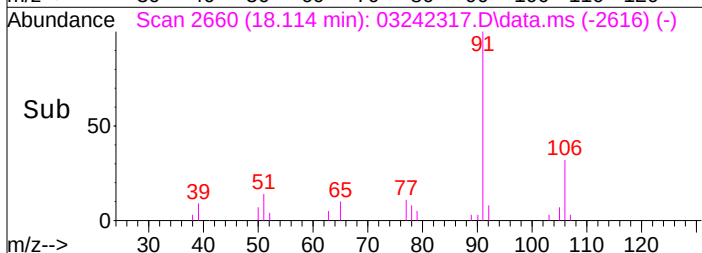
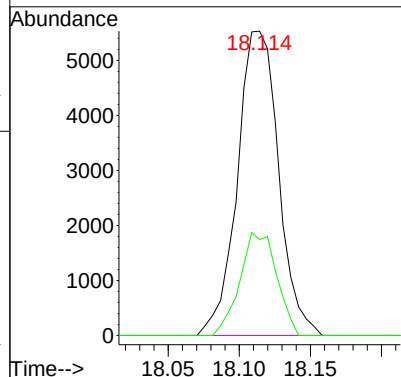
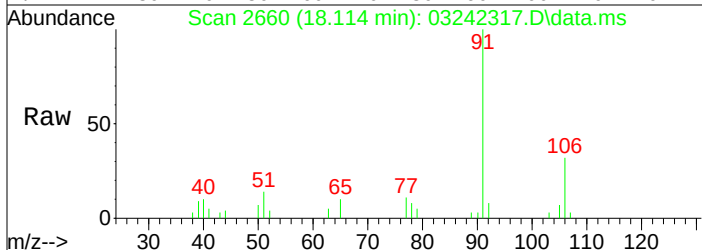
Tgt Ion: 166 Resp: 3422
Ion Ratio Lower Upper
166 100
164 78.2 58.7 98.7





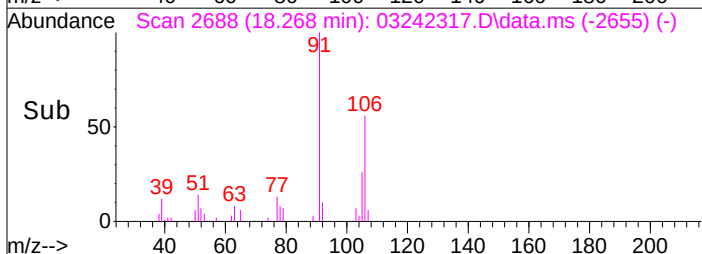
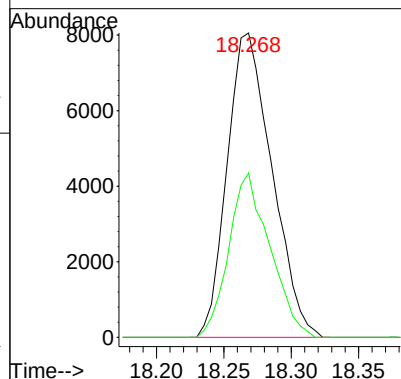
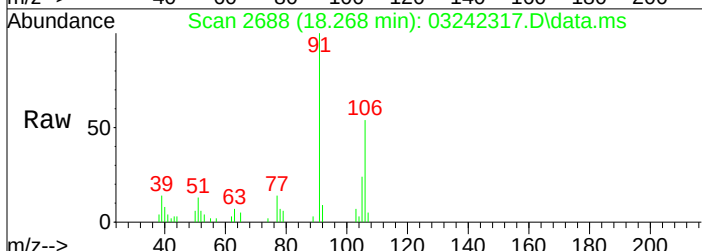
#66
Ethylbenzene
Concen: 0.12 ng
RT: 18.11 min Scan# 2660
Delta R.T. -0.005 min
Lab File: 03242317.D
Acq: 24 Mar 2023 15:43

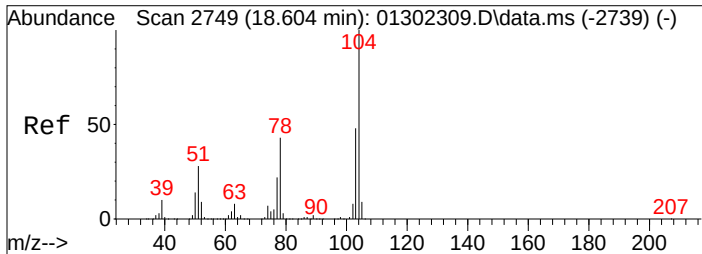
Tgt Ion	91	106	Resp	11146	Lower	Upper
Ion Ratio	100	30.2	11.5	51.5		



#67
m- & p-Xylenes
Concen: 0.24 ng
RT: 18.27 min Scan# 2688
Delta R.T. -0.016 min
Lab File: 03242317.D
Acq: 24 Mar 2023 15:43

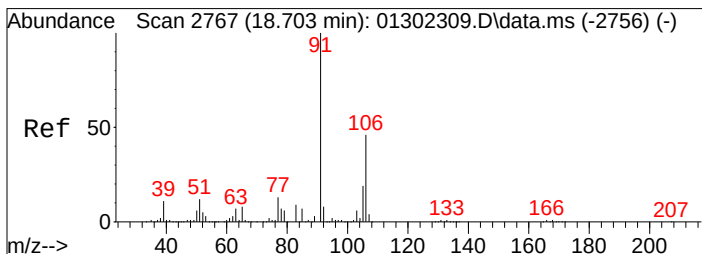
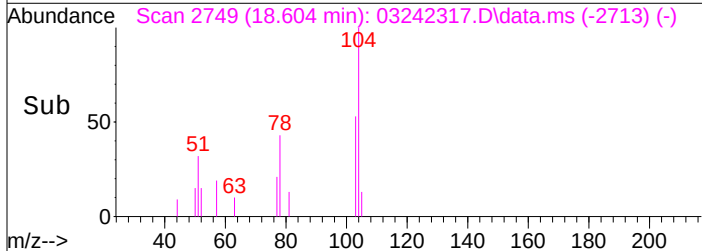
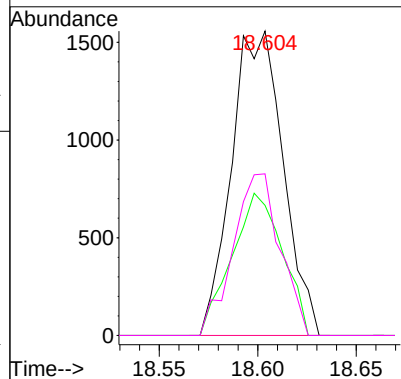
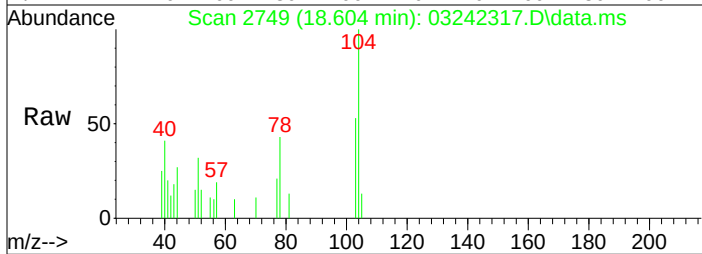
Tgt Ion	91	106	Resp	18642	Lower	Upper
Ion Ratio	100	49.4	29.2	69.2		





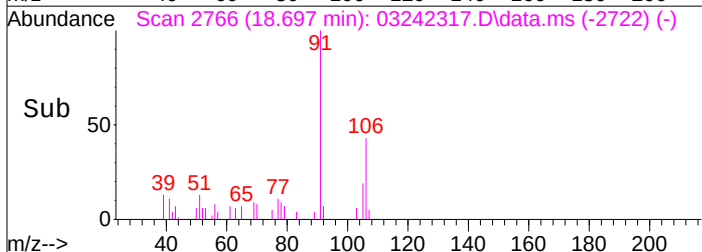
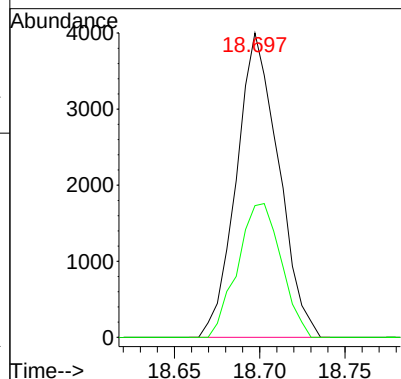
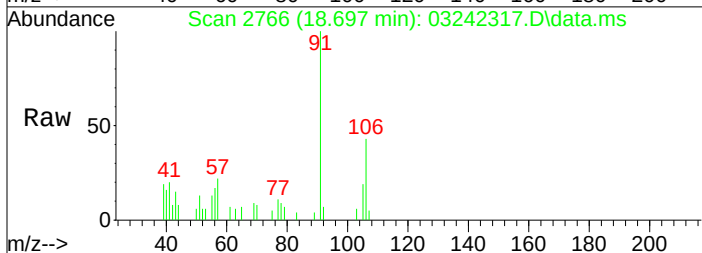
#69
Styrene
Concen: 0.05 ng
RT: 18.60 min Scan# 2749
Delta R.T. 0.000 min
Lab File: 03242317.D
Acq: 24 Mar 2023 15:43

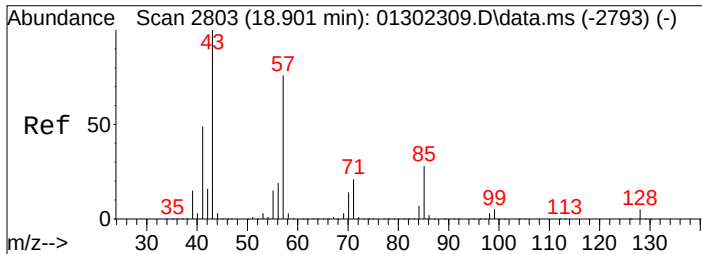
Tgt Ion: 104	Resp: 2844
Ion Ratio	Lower Upper
104 100	
78 45.8	20.0 60.0
103 48.3	26.9 66.9



#70
o-Xylene
Concen: 0.09 ng
RT: 18.70 min Scan# 2766
Delta R.T. -0.005 min
Lab File: 03242317.D
Acq: 24 Mar 2023 15:43

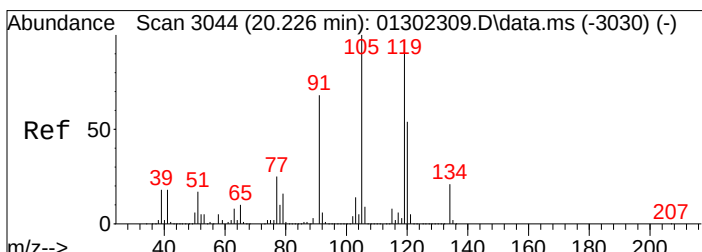
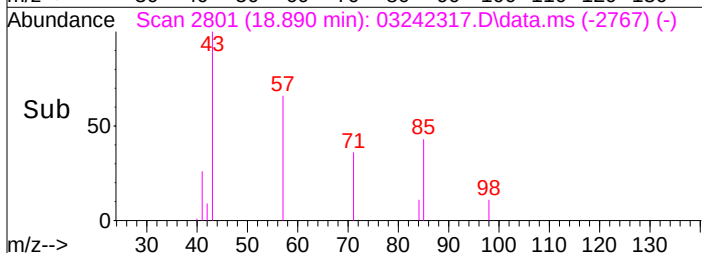
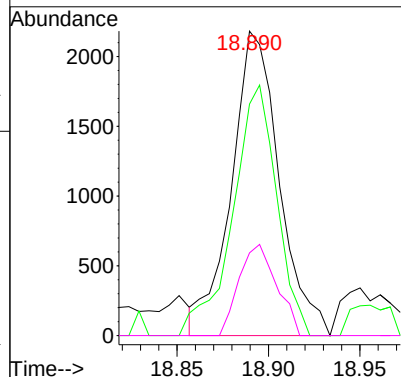
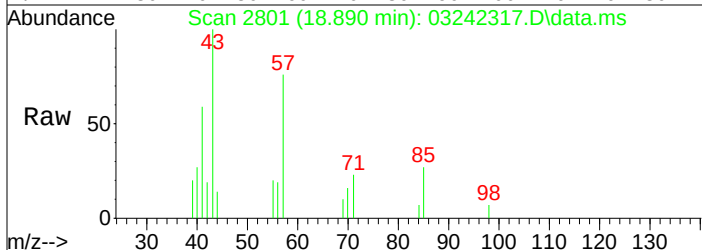
Tgt Ion: 91	Resp: 6871
Ion Ratio	Lower Upper
91 100	
106 45.4	27.3 67.3





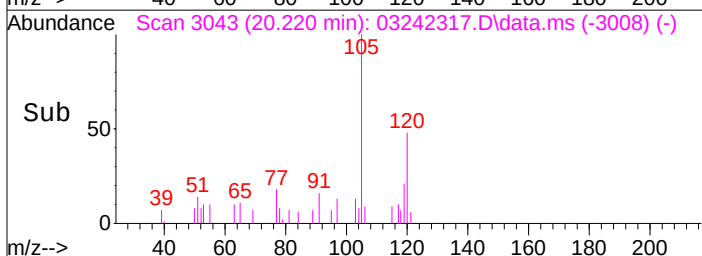
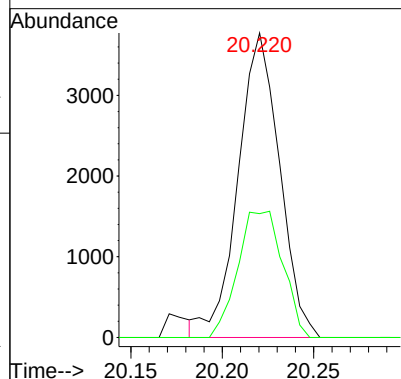
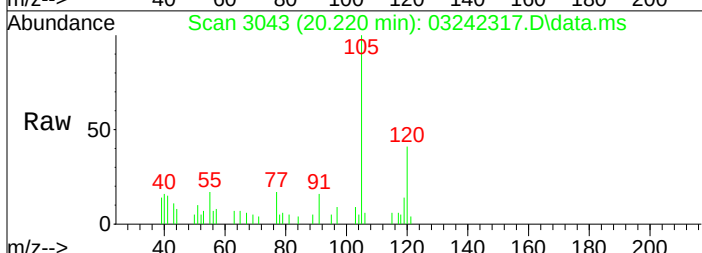
#71
n-Nonane
Concen: 0.07 ng
RT: 18.89 min Scan# 2801
Delta R.T. -0.011 min
Lab File: 03242317.D
Acq: 24 Mar 2023 15:43

Tgt Ion:	43	Resp:	3973
Ion Ratio		Lower	Upper
43	100		
57	75.6	64.6	104.6
85	23.6	9.6	49.6



#82
1,2,4-Trimethylbenzene
Concen: 0.08 ng
RT: 20.22 min Scan# 3043
Delta R.T. -0.005 min
Lab File: 03242317.D
Acq: 24 Mar 2023 15:43

Tgt Ion:	105	Resp:	5953
Ion Ratio		Lower	Upper
105	100		
120	44.9	37.2	77.2



Data File : I:\MS16\DATA\2023_03\24\03242317.D
 Acq On : 24 Mar 2023 15:43
 Sample : P2301250-054 (1000mL)
 Misc : S35-01312301

Vial: 3
 Operator: WA
 Inst : GCMS-16

3/26/23

Quant Time: Mar 26 20:32:46 2023
 Quant Method : I:\MS16\METHODS\C16122022.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Dec 21 05:02:49 2022
 Response via : Initial Calibration
 DataAcq Meth:T015B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.28	130	212868	12.500	ng	-0.02
16) 1,4-Difluorobenzene (C_2)	13.41	114	986211	12.500	ng	-0.01
19) Chlorobenzene-d5 (C_3)	17.72	54	222512	12.500	ng	0.00

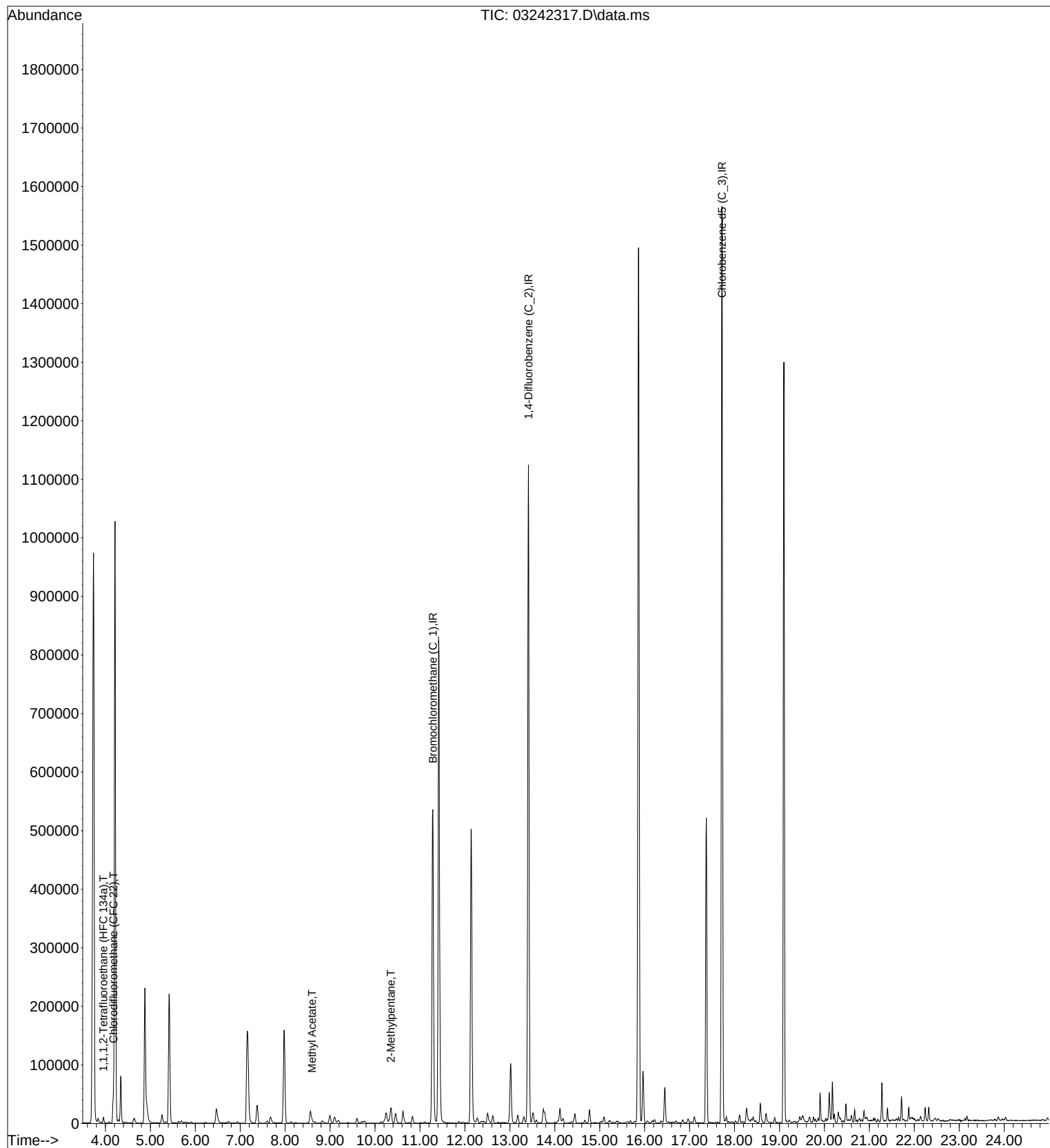
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.84	85	683	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.95	83	6423	0.381	ng	86
4) 1,1-Difluoroethane	4.08	65	815	N.D.		
5) Chlorodifluoromethane ...	4.18	67	2943	0.559	ng	85
6) 1-Chloro-1,1-Difluoroe...	4.64	65	2874	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	8.60	43	9019	0.171	ng	# 93
12) 2-Methylpentane	10.35	71	5248	0.251	ng	# 1
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	13.18	84	1550	N.D.		
17) 2,3-Dimethylpentane	13.58	56	2321	N.D.		
18) Dibromomethane	13.83	174	220	N.D.		
20) Methyl Cyclohexane	15.10	55	3737	N.D.		
21) 1,3-Dichloropropane	15.97	76	205	N.D.		
22) 1,1,1,2-Tetrachloroethane	17.68	131	61	N.D.		
23) 1-Chlorohexane	0.00	91	0	N.D.		
24) 1,2,3-Trichloropropane	18.71	75	296	N.D.		
25) Bromobenzene	19.22	77	104	N.D.		
26) 2-Chlorotoluene	19.67	91	2159	N.D.		
27) 4-Chlorotoluene	19.67	91	2159	N.D.		
28) Indane	20.77	117	682	N.D.		
29) Indene	20.85	115	167	N.D.		
30) 1,2,4,5-Tetramethylben...	21.61	119	1733	N.D.		
31) 1,2,3,4-Tetramethylben...	21.65	119	3195	N.D.		
32) 1,2,3,5-Tetramethylben...	21.99	119	1703	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\24\03242317.D
Acq On : 24 Mar 2023 15:43
Sample : P2301250-054 (1000mL)
Misc : S35-01312301

Vial: 3
Operator: WA
Inst : GCMS-16

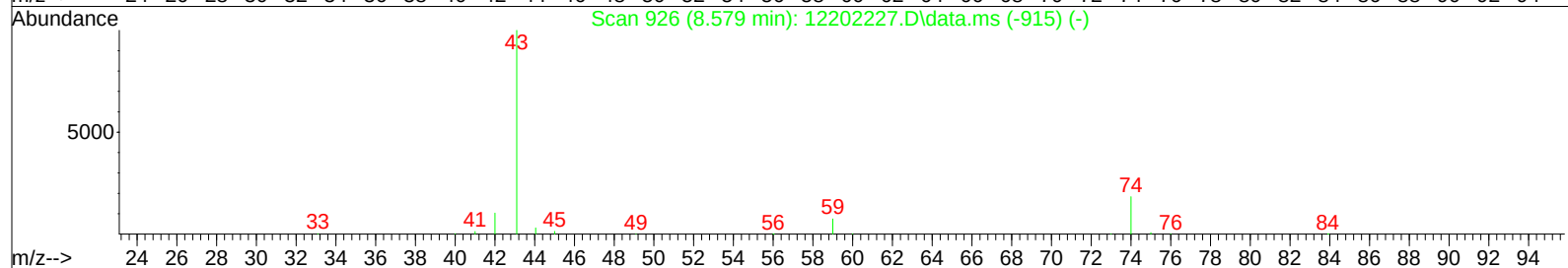
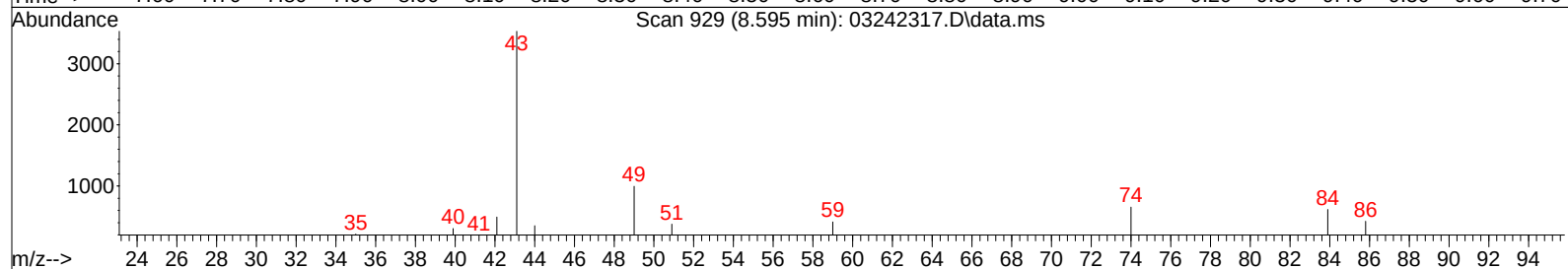
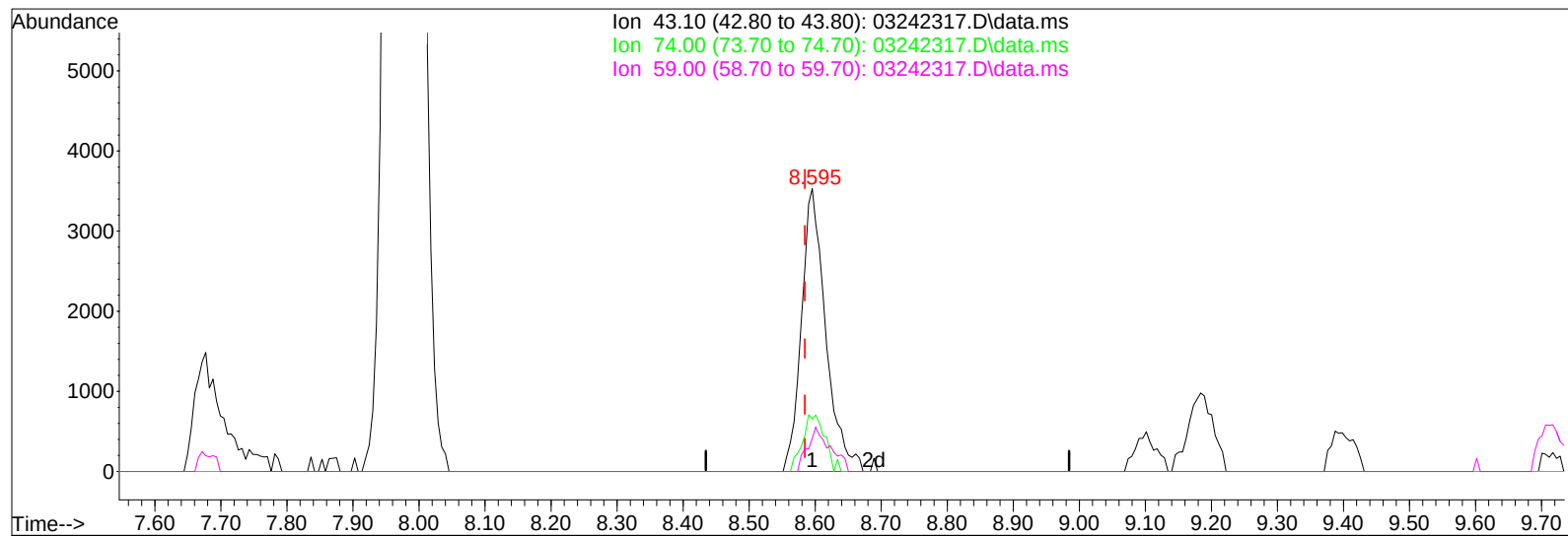
Quant Time: Mar 26 20:32:46 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



Data File : I:\MS16\DATA\2023_03\24\03242317.D
Acq On : 24 Mar 2023 15:43
Sample : P2301250-054 (1000mL)
Misc : S35-01312301

Vial: 3
Operator: WA
Inst : GCMS-16

Quant Time: Mar 26 20:27:33 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



TIC: 03242317.D\data.ms

(11) Methyl Acetate (T)

8.595min (+0.011) 0.17ng

response 9019

Ion	Exp%	Act%
43.10	100	100
74.00	18.10	18.63
59.00	7.20	14.65#
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: IA-031523A

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-055

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01617

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.48 Final Pressure (psig): 3.73

Container Dilution Factor: 1.21

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.9	0.64	0.11	0.58	0.13	0.021	
74-87-3	Chloromethane	0.26	0.25	0.10	0.13	0.12	0.050	V
75-01-4	Vinyl Chloride	ND	0.13	0.069	ND	0.052	0.027	
74-83-9	Bromomethane	ND	0.25	0.090	ND	0.065	0.023	
75-00-3	Chloroethane	ND	0.25	0.080	ND	0.096	0.030	
67-64-1	Acetone	7.0	6.4	1.5	2.9	2.7	0.61	
75-69-4	Trichlorofluoromethane	1.7	0.63	0.098	0.31	0.11	0.017	
75-35-4	1,1-Dichloroethene	ND	0.13	0.090	ND	0.034	0.023	
75-09-2	Methylene Chloride	0.37	0.64	0.18	0.11	0.18	0.052	J
76-13-1	Trichlorotrifluoroethane	0.51	0.65	0.092	0.066	0.085	0.012	J
75-15-0	Carbon Disulfide	ND	1.3	0.19	ND	0.42	0.062	
156-60-5	trans-1,2-Dichloroethene	ND	0.13	0.090	ND	0.034	0.023	
75-34-3	1,1-Dichloroethane	ND	0.13	0.094	ND	0.033	0.023	
1634-04-4	Methyl tert-Butyl Ether	ND	0.65	0.076	ND	0.18	0.021	
78-93-3	2-Butanone (MEK)	1.2	1.3	0.13	0.40	0.43	0.045	J
156-59-2	cis-1,2-Dichloroethene	0.11	0.13	0.091	0.027	0.034	0.023	J
67-66-3	Chloroform	0.20	0.13	0.086	0.041	0.027	0.018	
107-06-2	1,2-Dichloroethane	0.093	0.13	0.071	0.023	0.033	0.018	J
71-55-6	1,1,1-Trichloroethane	0.20	0.13	0.080	0.037	0.024	0.015	
71-43-2	Benzene	1.5	0.13	0.093	0.46	0.042	0.029	
56-23-5	Carbon Tetrachloride	0.47	0.13	0.090	0.075	0.021	0.014	
110-82-7	Cyclohexane	ND	1.3	0.18	ND	0.37	0.053	
78-87-5	1,2-Dichloropropane	ND	0.13	0.080	ND	0.029	0.017	
75-27-4	Bromodichloromethane	ND	0.13	0.093	ND	0.020	0.014	
79-01-6	Trichloroethene	0.90	0.13	0.087	0.17	0.025	0.016	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: IA-031523A

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-055

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01617

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.48 Final Pressure (psig): 3.73

Container Dilution Factor: 1.21

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.65	0.10	ND	0.14	0.022	
108-10-1	4-Methyl-2-pentanone	0.17	1.3	0.088	0.043	0.32	0.022	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.62	0.13	ND	0.14	0.029	
79-00-5	1,1,2-Trichloroethane	ND	0.13	0.065	ND	0.024	0.012	
108-88-3	Toluene	2.1	0.64	0.079	0.55	0.17	0.021	
591-78-6	2-Hexanone	0.39	1.3	0.080	0.095	0.33	0.020	J
124-48-1	Dibromochloromethane	ND	0.13	0.085	ND	0.016	0.0099	
106-93-4	1,2-Dibromoethane	ND	0.13	0.075	ND	0.017	0.0098	
127-18-4	Tetrachloroethene	0.25	0.13	0.083	0.036	0.020	0.012	
108-90-7	Chlorobenzene	ND	0.64	0.086	ND	0.14	0.019	
100-41-4	Ethylbenzene	0.37	0.64	0.091	0.085	0.15	0.021	J
179601-23-1	m,p-Xylenes	1.1	1.3	0.17	0.25	0.31	0.039	J
75-25-2	Bromoform	ND	0.65	0.13	ND	0.063	0.013	
100-42-5	Styrene	ND	0.64	0.10	ND	0.15	0.024	
95-47-6	o-Xylene	0.43	0.64	0.093	0.099	0.15	0.021	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	0.090	ND	0.019	0.013	
98-82-8	Cumene	ND	0.65	0.093	ND	0.13	0.019	
541-73-1	1,3-Dichlorobenzene	ND	0.64	0.097	ND	0.11	0.016	
106-46-7	1,4-Dichlorobenzene	ND	0.64	0.099	ND	0.11	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.65	0.096	ND	0.11	0.016	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.3	0.12	ND	0.14	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	1.3	0.16	ND	0.18	0.021	
79-20-9	Methyl Acetate	0.36	0.61	0.29	0.12	0.20	0.096	J, X
108-87-2	Methylcyclohexane	ND	0.61	0.31	ND	0.15	0.078	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS16\DATA\2023_03\27\03272307.D
 Acq On : 27 Mar 2023 8:21
 Sample : P2301250-055 (1000mL)
 Misc : S35-01312301

Vial: 4
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 11:50:01 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	208580	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	968650	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.72	54	202856	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	371057	13.377	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	107.04%	
57) Toluene-d8 (SS2)	15.87	98	1083435	12.199	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	97.60%	
73) Bromofluorobenzene (SS3)	19.10	174	316928	11.442	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	91.52%	

Target Compounds

						Qvalue
2) Propene	4.17	42	42196	1.500	ng	93
3) Dichlorodifluoromethan...	4.33	85	74062	2.376	ng	99
4) Chloromethane	4.62	50	6241	0.214	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	4.89	135	1837	0.106	ng	88
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.31	54	2116	0.093	ng	# 80
8) Bromomethane	5.76	94	390	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.46	45	65001	3.238	ng	100
11) Acetonitrile	6.73	41	7603	0.151	ng	90
12) Acrolein	6.93	56	4377	0.308	ng	99
13) Acetone	7.14	58	88858	5.788	ng	# 66
14) Trichlorofluoromethane	7.37	101	41421	1.440	ng	98
15) 2-Propanol (Isopropanol)	7.67	45	9601	0.180	ng	86
16) Acrylonitrile	7.89	53	2585	0.090	ng	94
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	8.55	84	5189	0.306	ng	94
20) 3-Chloro-1-propene (Al...	8.73	41	104	N.D.		
21) Trichlorotrifluoroethane	8.99	151	6020	0.420	ng	93
22) Carbon Disulfide	0.00	76	0	N.D.	d	
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	10.09	63	1740	0.056	ng	81
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	10.62	72	10966	0.985	ng	98
28) cis-1,2-Dichloroethene	11.10	61	2296	0.090	ng	90
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	11.42	61	43544	5.982	ng	97
31) n-Hexane	11.40	57	18642	0.512	ng	97
32) Chloroform	11.44	83	4596	0.165	ng	99
34) Tetrahydrofuran (THF)	0.00	72	0	N.D.	d	
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	12.26	62	1733	0.077	ng	72
38) 1,1,1-Trichloroethane	12.53	97	4388	0.167	ng	98
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.02	78	82903	1.215	ng	98
42) Carbon Tetrachloride	13.17	117	8670	0.391	ng	95
43) Cyclohexane	13.31	84	3858	0.134	ng	100
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	13.87	63	265	N.D.		
46) Bromodichloromethane	14.06	83	949	N.D.		
47) Trichloroethene	14.11	130	13777	0.743	ng	99
48) 1,4-Dioxane	14.14	88	131	N.D.		
49) 2,2,4-Trimethylpentane...	14.18	57	29524	0.321	ng	77
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS16\DATA\2023_03\27\03272307.D
 Acq On : 27 Mar 2023 8:21
 Sample : P2301250-055 (1000mL)
 Misc : S35-01312301

Vial: 4
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 11:50:01 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

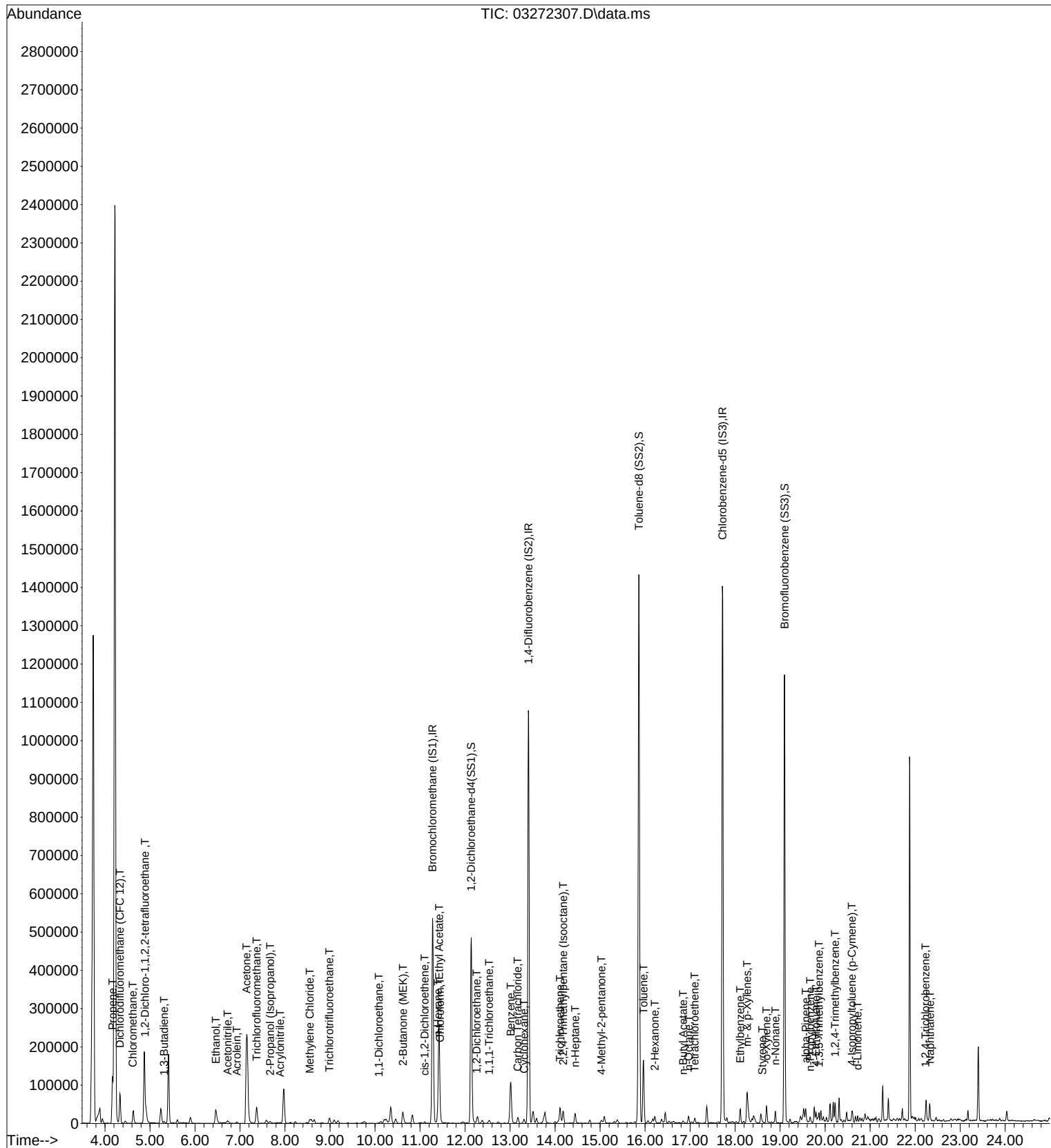
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.45	71	6663	0.333	ng	92
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	15.03	58	2272	0.144	ng	78
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.96	91	132722	1.706	ng	97
59) 2-Hexanone	16.22	43	13163	0.320	ng	82
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.84	43	5088	0.108	ng	99
63) n-Octane	16.97	57	3383	0.170	ng	97
64) Tetrachloroethene	17.10	166	4019	0.203	ng	99
65) Chlorobenzene	17.76	112	1138	N.D.		
66) Ethylbenzene	18.11	91	26830	0.305	ng	100
67) m- & p-Xylenes	18.27	91	61911	0.891	ng	100
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.60	104	2678	0.055	ng	96
70) o-Xylene	18.70	91	24389	0.357	ng	98
71) n-Nonane	18.90	43	12152	0.249	ng	89
72) 1,1,2,2-Tetrachloroethane	18.68	83	116	N.D.		
74) Cumene	19.22	105	3641	N.D.		
75) alpha-Pinene	19.57	93	13108	0.593	ng	99
76) n-Propylbenzene	19.67	91	8322	0.079	ng	88
77) 3-Ethyltoluene	20.22	105	22388	No Calib	#	
78) 4-Ethyltoluene	19.80	105	8734	0.107	ng	97
79) 1,3,5-Trimethylbenzene	19.86	105	7824	0.107	ng	92
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.22	105	22388	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.22	105	22388	0.320	ng	86
83) n-Decane	20.22	58	616	No Calib	#	
84) Benzyl Chloride	20.34	91	448	N.D.		
85) 1,3-Dichlorobenzene	20.35	146	737	N.D.		
86) 1,4-Dichlorobenzene	20.41	146	1059	N.D.		
87) sec-Butylbenzene	20.46	105	1546	N.D.		
88) 4-Isopropyltoluene (p-...	20.59	119	7186	0.070	ng	86
89) 1,2,3-Trimethylbenzene	20.22	105	22388	No Calib	#	
90) 1,2-Dichlorobenzene	20.72	146	609	N.D.		
91) d-Limonene	20.72	68	3369	0.169	ng	99
92) 1,2-Dibromo-3-Chloropr...	21.10	157	181	N.D.		
93) n-Undecane	21.28	58	1064	No Calib	#	
94) 1,2,4-Trichlorobenzene	22.23	180	1892	0.072	ng	97
95) Naphthalene	22.33	128	5562	0.065	ng	98
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	18.19	55	567	No Calib	#	
99) tert-Butylbenzene	20.22	119	3387	N.D.		
100) n-Butylbenzene	20.96	91	3601	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\27\03272307.D
Acq On : 27 Mar 2023 8:21
Sample : P2301250-055 (1000mL)
Misc : S35-01312301

Vial: 4
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 11:50:01 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



Data File : I:\MS16\DATA\2023_03\27\03272307.D
 Acq On : 27 Mar 2023 8:21
 Sample : P2301250-055 (1000mL)
 Misc : S35-01312301

Vial: 4
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 11:50:01 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

USA 3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	208580	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	968650	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.72	54	202856	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	371057	13.377	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	107.04%	
57) Toluene-d8 (SS2)	15.87	98	1083435	12.199	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	97.60%	
73) Bromofluorobenzene (SS3)	19.10	174	316928	11.442	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	91.52%	

Target Compounds

						Qvalue
2) Propene	4.17	42	42196	1.500	ng	93
3) Dichlorodifluoromethan...	4.33	85	74062	2.376	ng	99
4) Chloromethane	4.62	50	6241	0.214	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	4.89	135	1837	0.106	ng	88
7) 1,3-Butadiene	5.31	54	2116	0.093	ng	# 80
10) Ethanol	6.46	45	65001	3.238	ng	100
11) Acetonitrile	6.73	41	7603	0.151	ng	90
12) Acrolein	6.93	56	4377	0.308	ng	99
13) Acetone	7.14	58	88858	5.788	ng	# 66
14) Trichlorofluoromethane	7.37	101	41421	1.440	ng	98
15) 2-Propanol (Isopropanol)	7.67	45	9601	0.180	ng	86
16) Acrylonitrile	7.89	53	2585	0.090	ng	94
19) Methylene Chloride	8.55	84	5189	0.306	ng	94
21) Trichlorotrifluoroethane	8.99	151	6020	0.420	ng	93
24) 1,1-Dichloroethane	10.09	63	1740	0.056	ng	81
27) 2-Butanone (MEK)	10.62	72	10966	0.985	ng	98
28) cis-1,2-Dichloroethene	11.10	61	2296	0.090	ng	90
30) Ethyl Acetate	11.42	61	43544	5.982	ng	97
31) n-Hexane	11.40	57	18642	0.512	ng	97
32) Chloroform	11.44	83	4596	0.165	ng	99
36) 1,2-Dichloroethane	12.26	62	1733	0.077	ng	72
38) 1,1,1-Trichloroethane	12.53	97	4388	0.167	ng	98
41) Benzene	13.02	78	82903	1.215	ng	98
42) Carbon Tetrachloride	13.17	117	8670	0.391	ng	95
43) Cyclohexane	13.31	84	3858	0.134	ng	100
47) Trichloroethene	14.11	130	13777	0.743	ng	99
49) 2,2,4-Trimethylpentane...	14.18	57	29524	0.321	ng	77
51) n-Heptane	14.45	71	6663	0.333	ng	92
53) 4-Methyl-2-pentanone	15.03	58	2272	0.144	ng	78
58) Toluene	15.96	91	132722	1.706	ng	97
59) 2-Hexanone	16.22	43	13163	0.320	ng	82
62) n-Butyl Acetate	16.84	43	5088	0.108	ng	99
63) n-Octane	16.97	57	3383	0.170	ng	97
64) Tetrachloroethene	17.10	166	4019	0.203	ng	99
66) Ethylbenzene	18.11	91	26830	0.305	ng	100
67) m- & p-Xylenes	18.27	91	61911	0.891	ng	100
69) Styrene	18.60	104	2678	0.055	ng	96
70) o-Xylene	18.70	91	24389	0.357	ng	98
71) n-Nonane	18.90	43	12152	0.249	ng	89
75) alpha-Pinene	19.57	93	13108	0.593	ng	99
76) n-Propylbenzene	19.67	91	8322	0.079	ng	88
78) 4-Ethyltoluene	19.80	105	8734	0.107	ng	97
79) 1,3,5-Trimethylbenzene	19.86	105	7824	0.107	ng	92
82) 1,2,4-Trimethylbenzene	20.22	105	22388	0.320	ng	86
88) 4-Isopropyltoluene (p-...	20.59	119	7186	0.070	ng	86
91) d-Limonene	20.72	68	3369	0.169	ng	99
94) 1,2,4-Trichlorobenzene	22.23	180	1892	0.072	ng	97

Data File : I:\MS16\DATA\2023_03\27\03272307.D
Acq On : 27 Mar 2023 8:21
Sample : P2301250-055 (1000mL)
Misc : S35-01312301

Vial: 4
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 11:50:01 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M

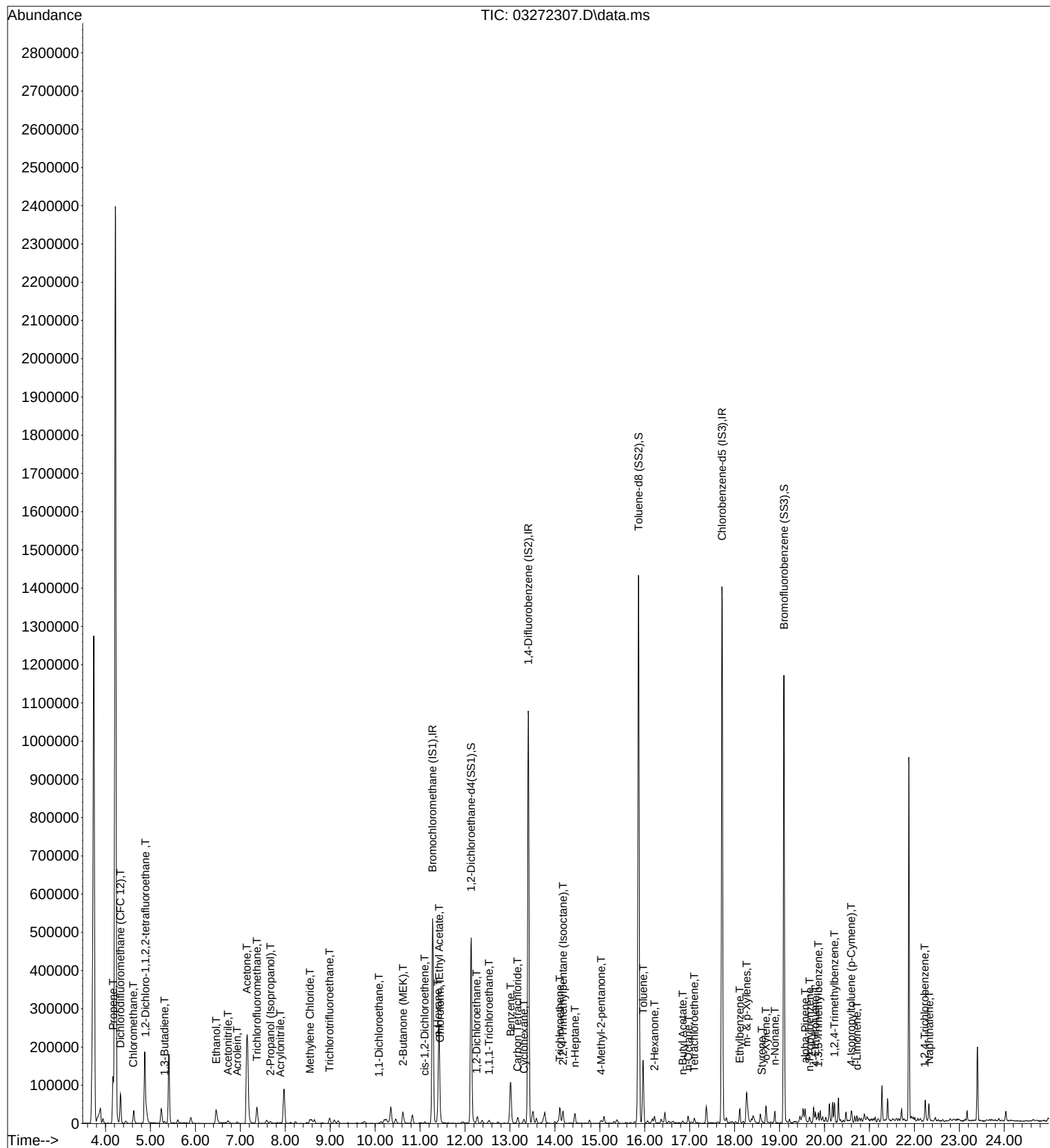
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) Naphthalene	22.33	128	5562	0.065	ng	98

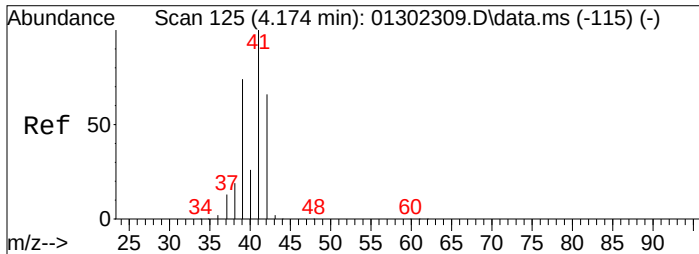
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS16\DATA\2023_03\27\03272307.D
Acq On : 27 Mar 2023 8:21
Sample : P2301250-055 (1000mL)
Misc : S35-01312301

Vial: 4
Operator: WA
Inst : GCMS-16

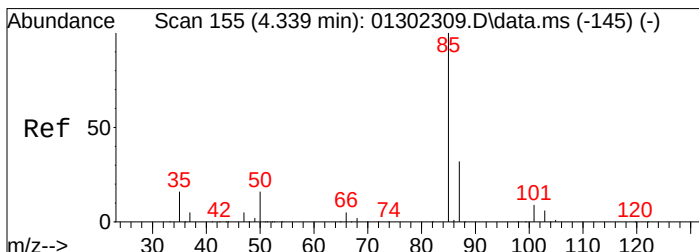
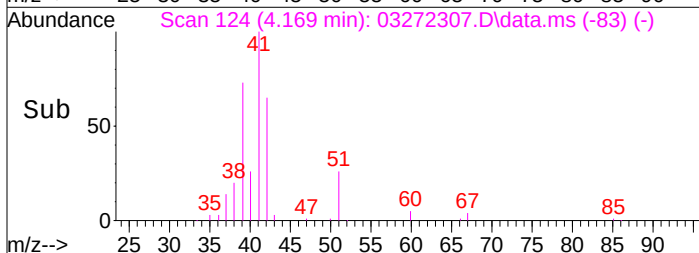
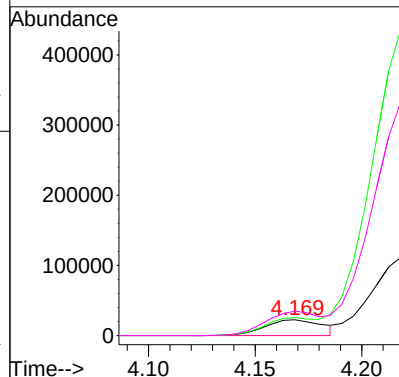
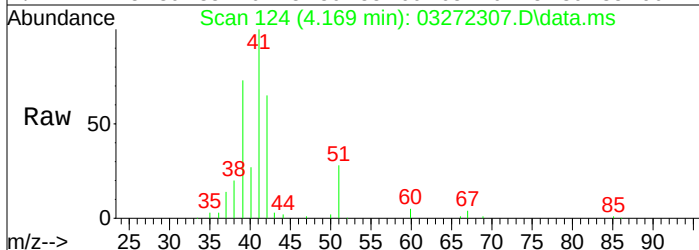
Quant Time: Mar 27 11:50:01 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M





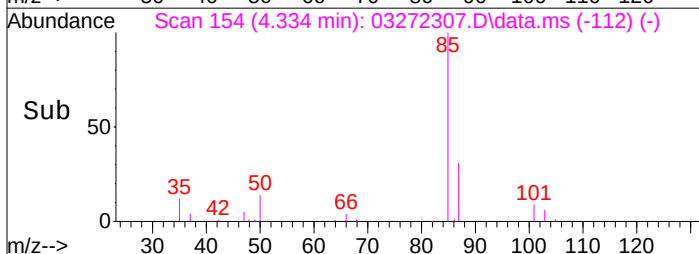
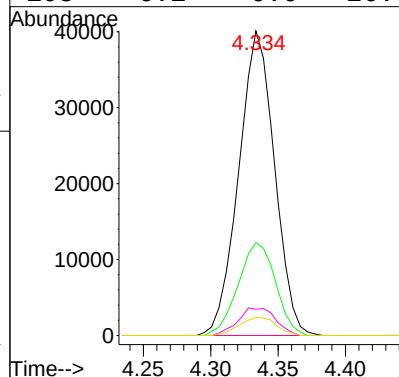
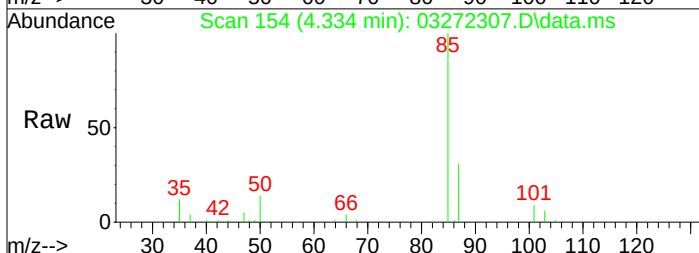
#2
 Propene
 Concen: 1.50 ng
 RT: 4.17 min Scan# 124
 Delta R.T. -0.022 min
 Lab File: 03272307.D
 Acq: 27 Mar 2023 8:21

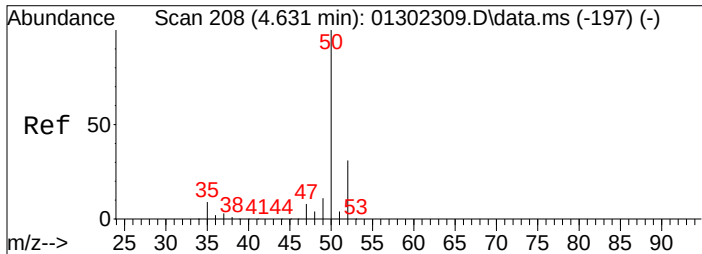
Tgt Ion:	42	Resp:	42196
Ion Ratio		Lower	Upper
42	100		
39	105.5	87.4	127.4
41	137.8	131.0	171.0



#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 2.38 ng
 RT: 4.33 min Scan# 154
 Delta R.T. -0.016 min
 Lab File: 03272307.D
 Acq: 27 Mar 2023 8:21

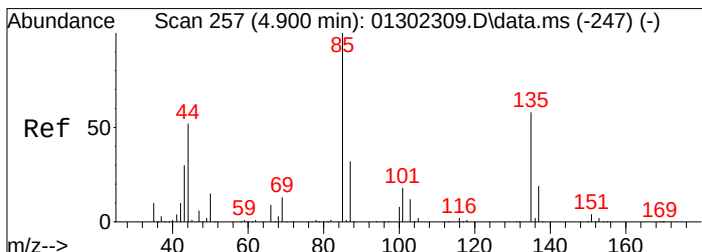
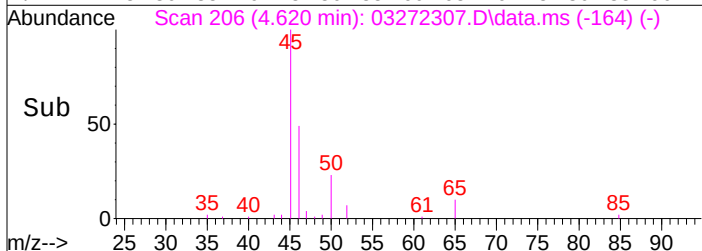
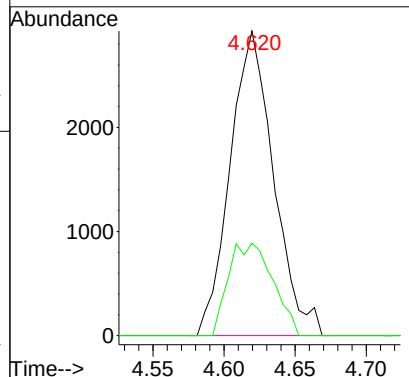
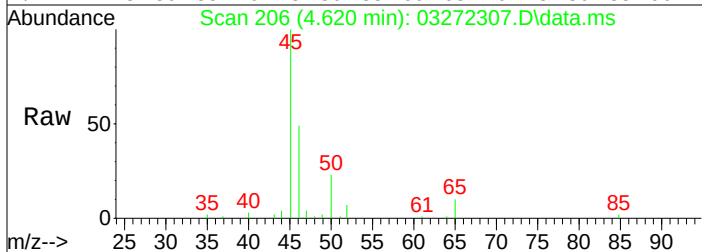
Tgt Ion:	85	Resp:	74062
Ion Ratio		Lower	Upper
85	100		
87	31.8	12.1	52.1
101	9.5	0.0	29.3
103	6.1	0.0	26.0





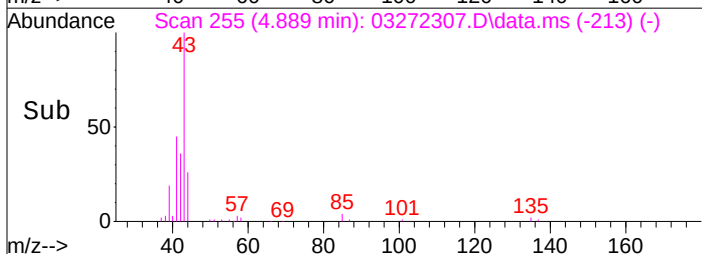
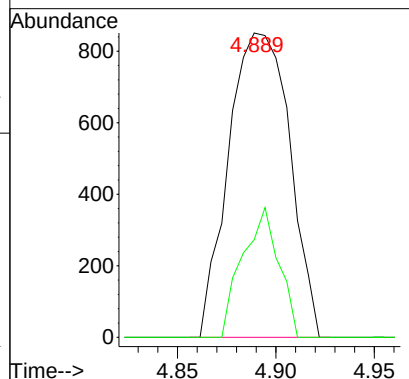
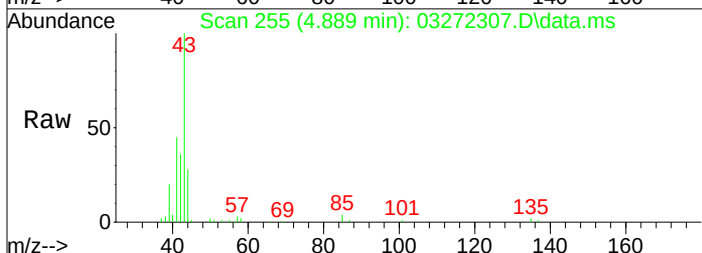
#4
 Chloromethane
 Concen: 0.21 ng
 RT: 4.62 min Scan# 206
 Delta R.T. -0.016 min
 Lab File: 03272307.D
 Acq: 27 Mar 2023 8:21

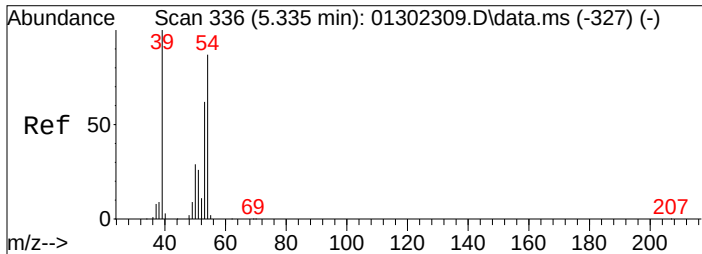
Tgt Ion:	50	Resp:	6241
Ion Ratio	Lower	Upper	
50	100		
52	31.0	12.2	52.2



#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.11 ng
 RT: 4.89 min Scan# 255
 Delta R.T. -0.016 min
 Lab File: 03272307.D
 Acq: 27 Mar 2023 8:21

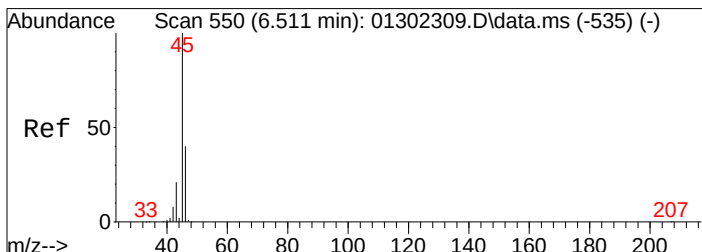
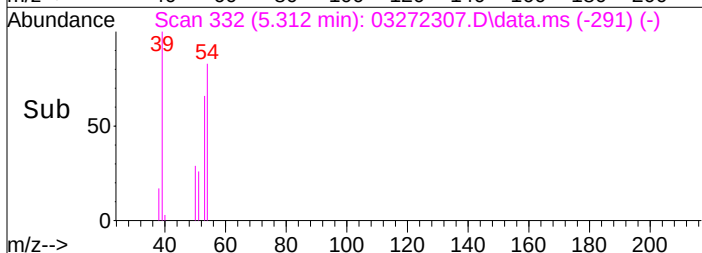
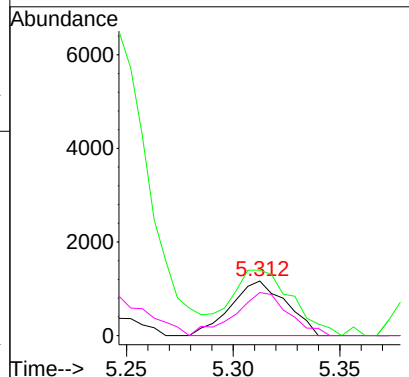
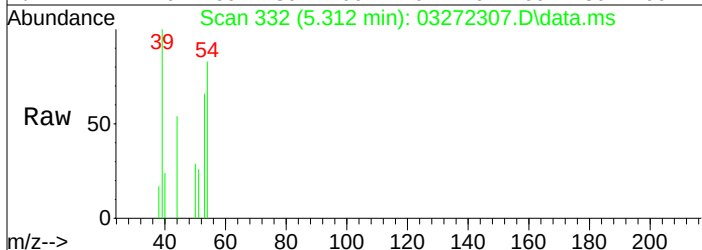
Tgt Ion:	135	Resp:	1837
Ion Ratio	Lower	Upper	
135	100		
137	25.4	12.0	52.0





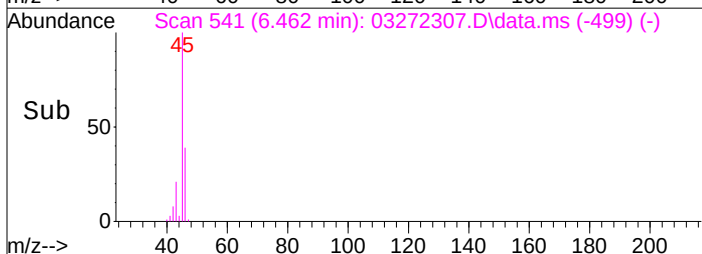
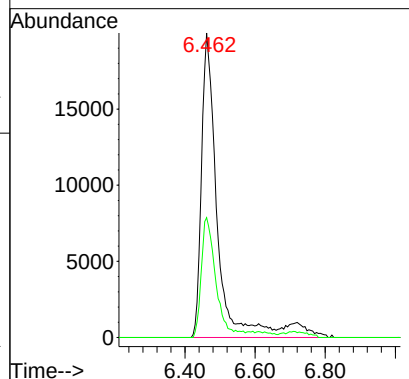
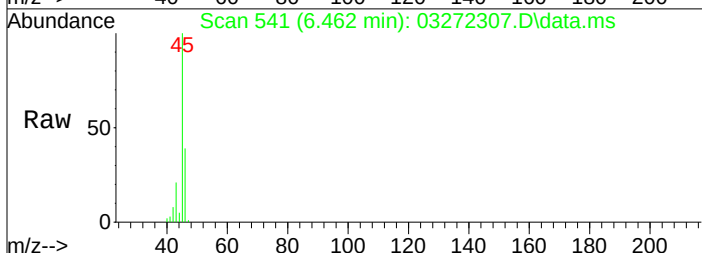
#7
1,3-Butadiene
Concen: 0.09 ng
RT: 5.31 min Scan# 332
Delta R.T. -0.022 min
Lab File: 03272307.D
Acq: 27 Mar 2023 8:21

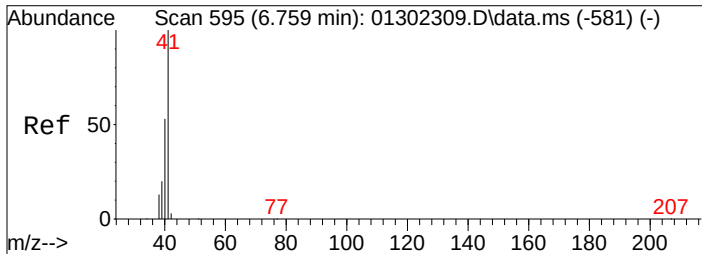
Tgt Ion: 54 Resp: 2116
Ion Ratio Lower Upper
54 100
39 134.5 84.6 124.6#
53 76.5 51.1 91.1



#10
Ethanol
Concen: 3.24 ng
RT: 6.46 min Scan# 541
Delta R.T. -0.016 min
Lab File: 03272307.D
Acq: 27 Mar 2023 8:21

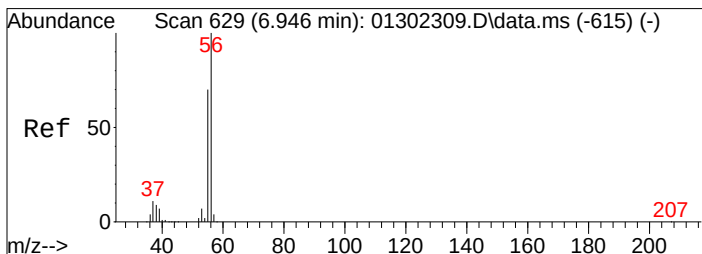
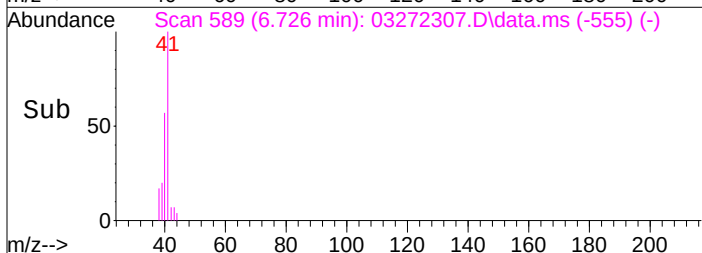
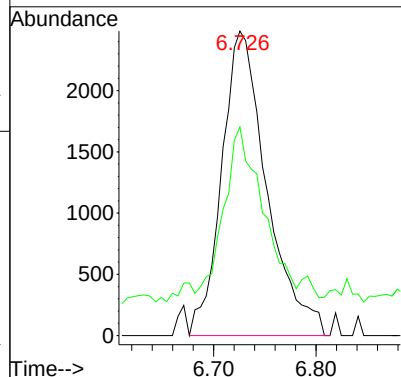
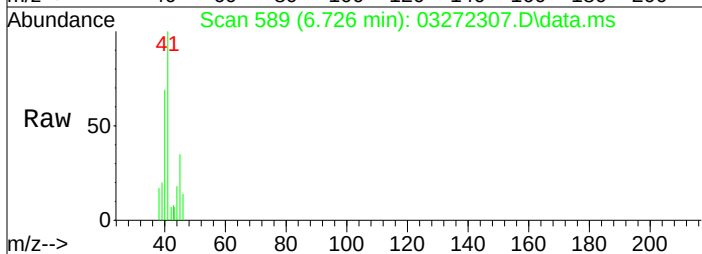
Tgt Ion: 45 Resp: 65001
Ion Ratio Lower Upper
45 100
46 40.7 20.5 60.5





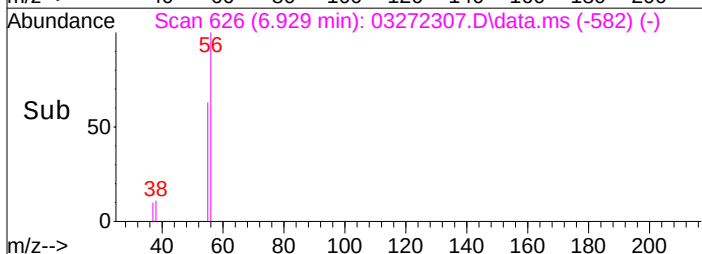
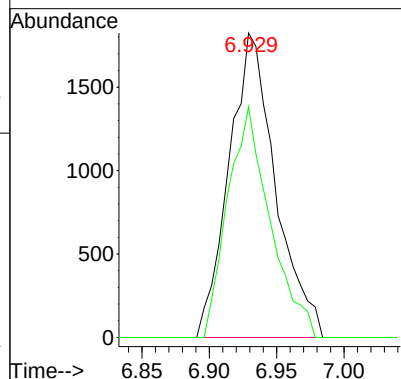
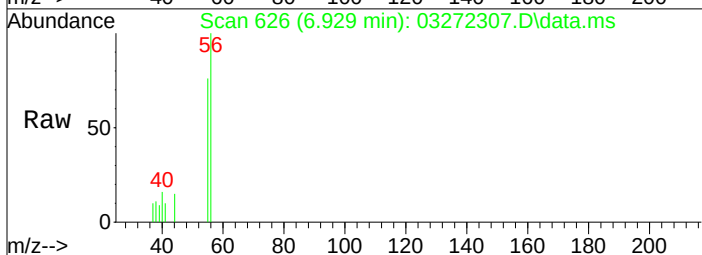
#11
Acetonitrile
Concen: 0.15 ng
RT: 6.73 min Scan# 589
Delta R.T. -0.011 min
Lab File: 03272307.D
Acq: 27 Mar 2023 8:21

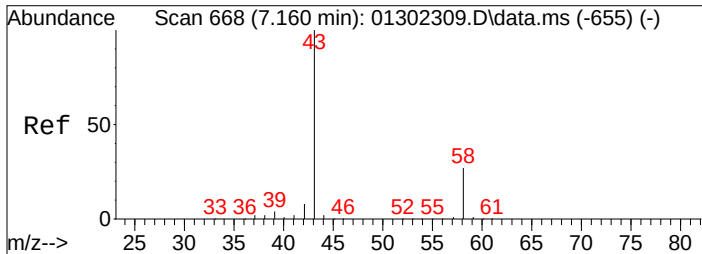
Tgt Ion: 41 Resp: 7603
Ion Ratio Lower Upper
41 100
40 59.7 32.4 72.4



#12
Acrolein
Concen: 0.31 ng
RT: 6.93 min Scan# 626
Delta R.T. -0.006 min
Lab File: 03272307.D
Acq: 27 Mar 2023 8:21

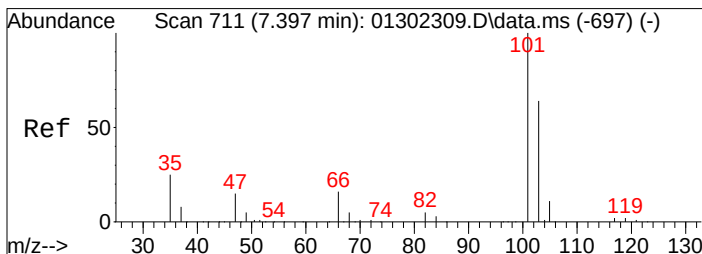
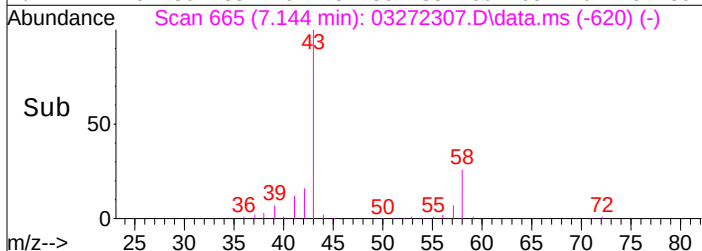
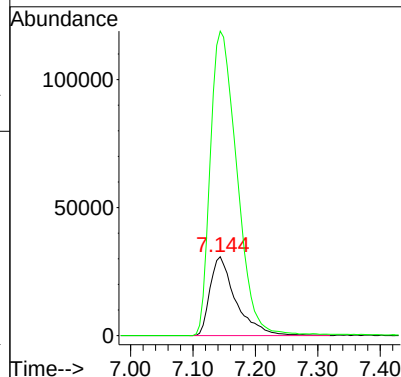
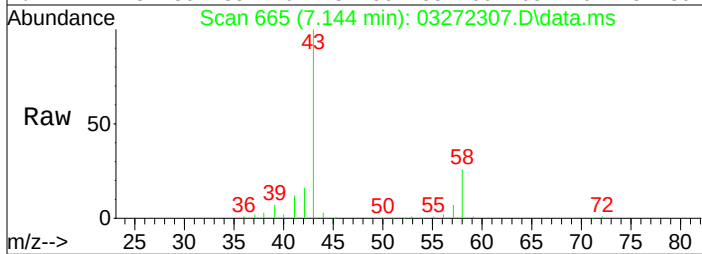
Tgt Ion: 56 Resp: 4377
Ion Ratio Lower Upper
56 100
55 69.1 49.9 89.9





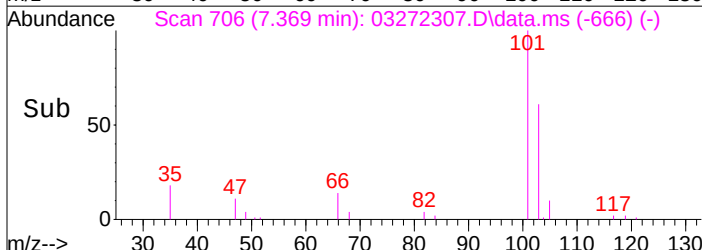
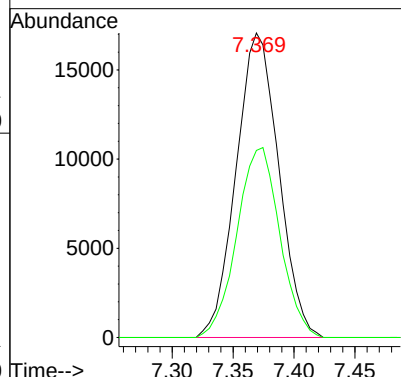
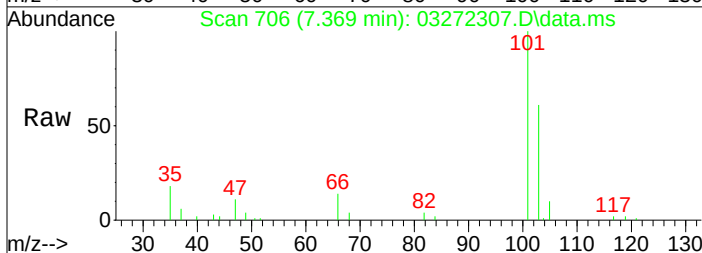
#13
 Acetone
 Concen: 5.79 ng
 RT: 7.14 min Scan# 665
 Delta R.T. -0.000 min
 Lab File: 03272307.D
 Acq: 27 Mar 2023 8:21

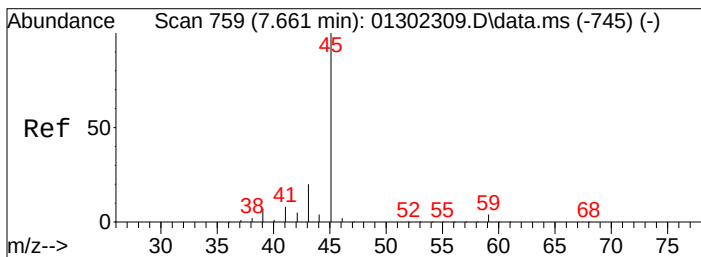
Tgt Ion	58	43	Resp	88858	Lower	Upper
Ion Ratio	100	398.9	298.5	358.5#		



#14
 Trichlorofluoromethane
 Concen: 1.44 ng
 RT: 7.37 min Scan# 706
 Delta R.T. -0.027 min
 Lab File: 03272307.D
 Acq: 27 Mar 2023 8:21

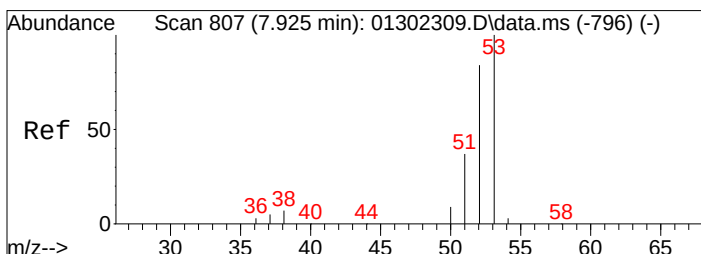
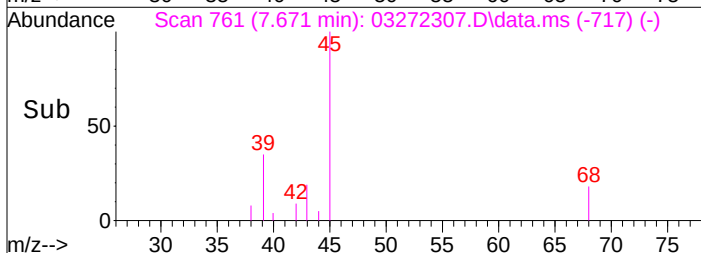
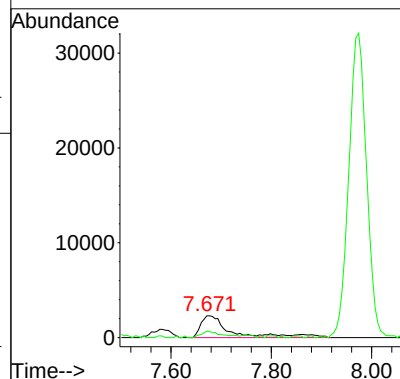
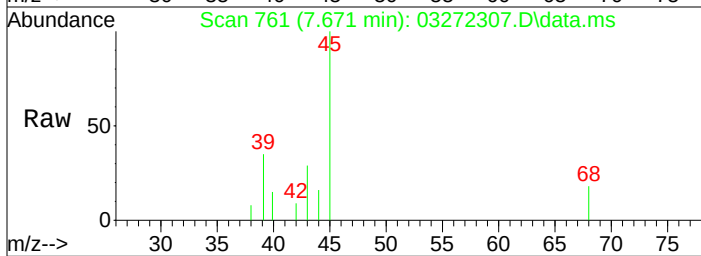
Tgt Ion	101	103	Resp	41421	Lower	Upper
Ion Ratio	100	62.9	44.8	84.8		





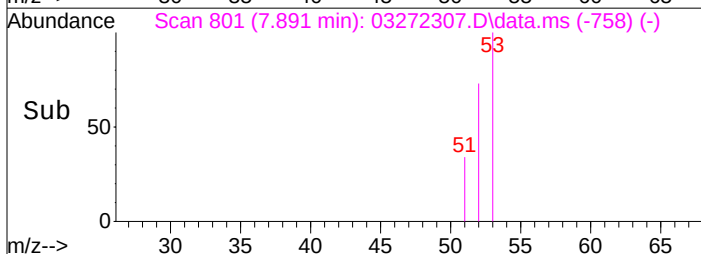
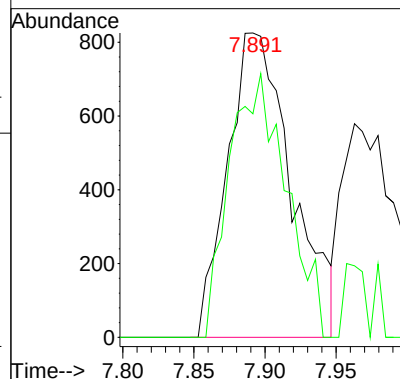
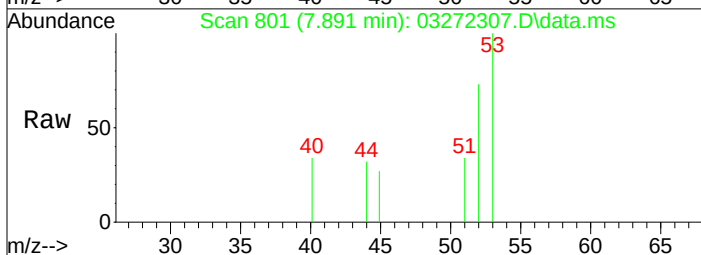
#15
2-Propanol (Isopropanol)
Concen: 0.18 ng
RT: 7.67 min Scan# 761
Delta R.T. -0.009 min
Lab File: 03272307.D
Acq: 27 Mar 2023 8:21

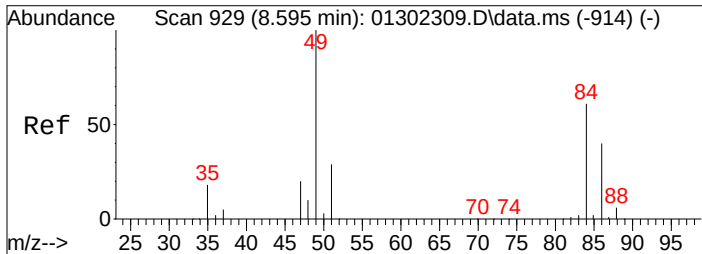
Tgt Ion: 45 Resp: 9601
Ion Ratio Lower Upper
45 100
43 24.2 0.0 37.9



#16
Acrylonitrile
Concen: 0.09 ng
RT: 7.89 min Scan# 801
Delta R.T. -0.011 min
Lab File: 03272307.D
Acq: 27 Mar 2023 8:21

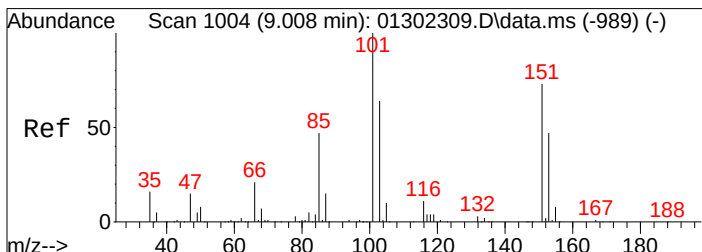
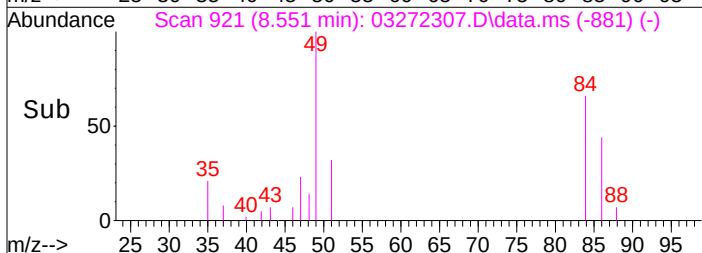
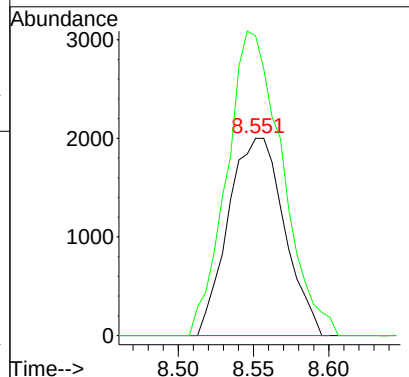
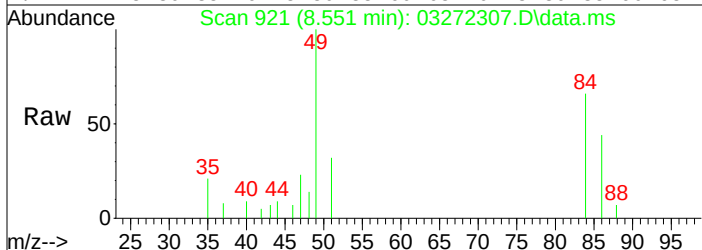
Tgt Ion: 53 Resp: 2585
Ion Ratio Lower Upper
53 100
52 76.8 62.1 102.1





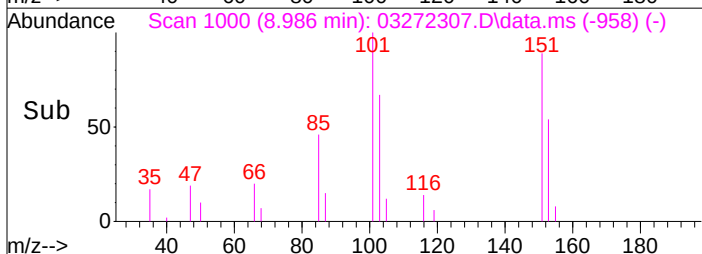
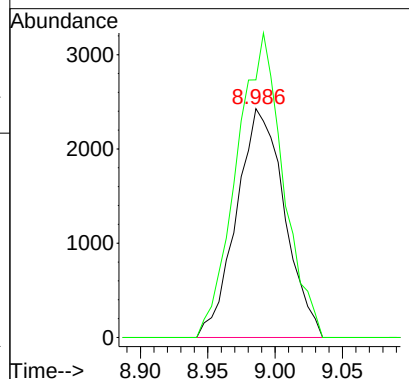
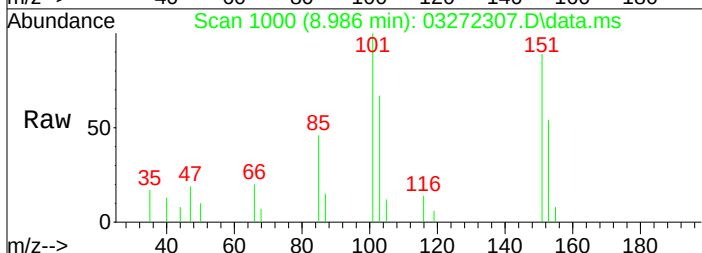
#19
Methylene Chloride
Concen: 0.31 ng
RT: 8.55 min Scan# 921
Delta R.T. -0.027 min
Lab File: 03272307.D
Acq: 27 Mar 2023 8:21

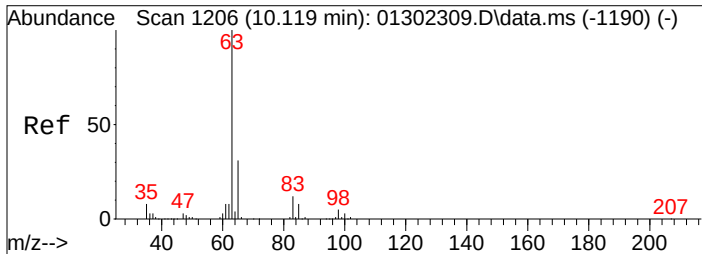
Tgt Ion:	84	Resp:	5189
Ion Ratio	Lower	Upper	
84	100		
49	152.4	135.0	185.0



#21
Trichlorotrifluoroethane
Concen: 0.42 ng
RT: 8.99 min Scan# 1000
Delta R.T. -0.016 min
Lab File: 03272307.D
Acq: 27 Mar 2023 8:21

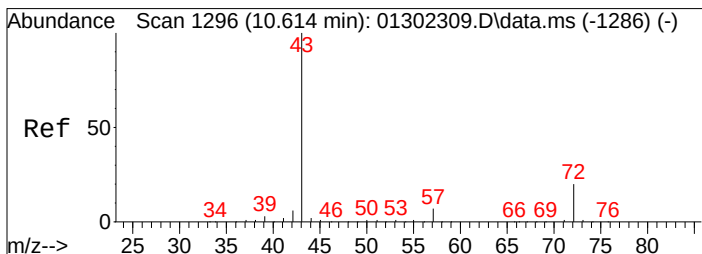
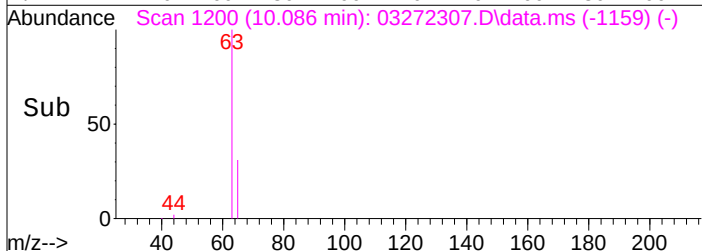
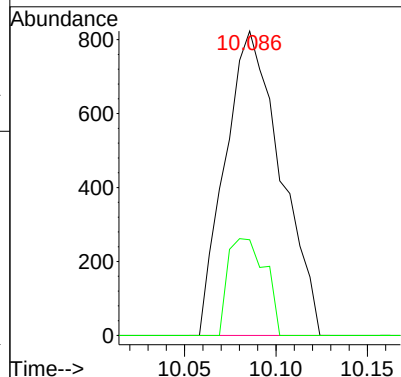
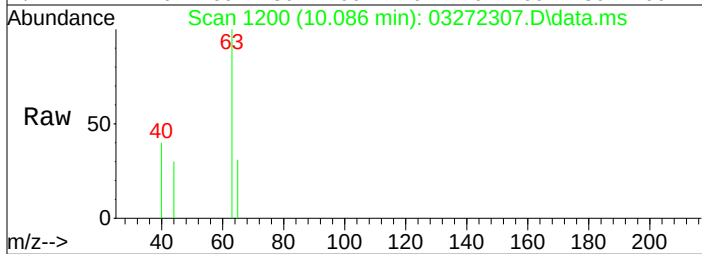
Tgt Ion:	151	Resp:	6020
Ion Ratio	Lower	Upper	
151	100		
101	129.5	101.5	141.5





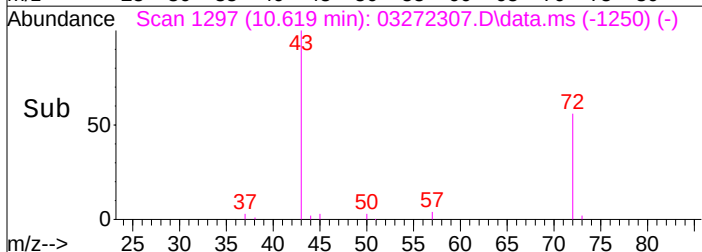
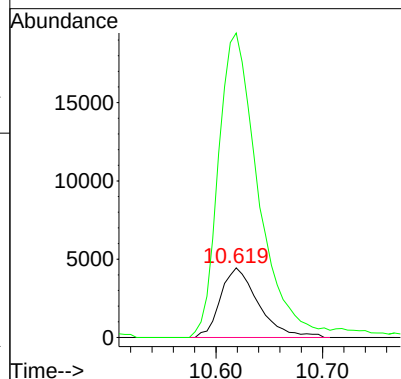
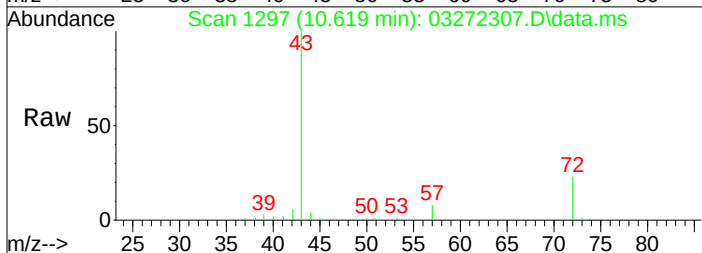
#24
 1,1-Dichloroethane
 Concen: 0.06 ng
 RT: 10.09 min Scan# 1200
 Delta R.T. -0.022 min
 Lab File: 03272307.D
 Acq: 27 Mar 2023 8:21

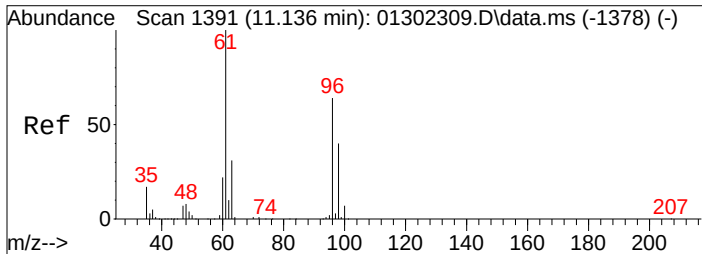
Tgt Ion	63	65	Resp	1740	Lower	Upper
Ion Ratio	100	21.3			11.7	51.7



#27
 2-Butanone (MEK)
 Concen: 0.99 ng
 RT: 10.62 min Scan# 1297
 Delta R.T. 0.011 min
 Lab File: 03272307.D
 Acq: 27 Mar 2023 8:21

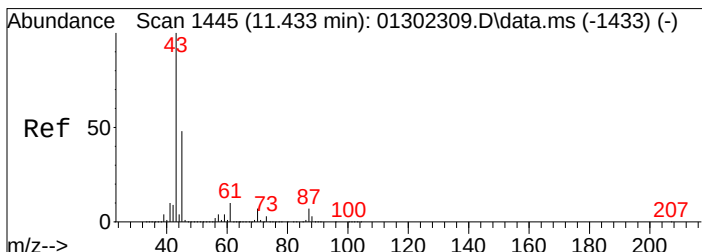
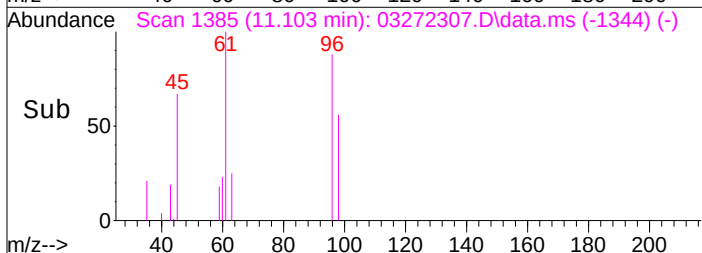
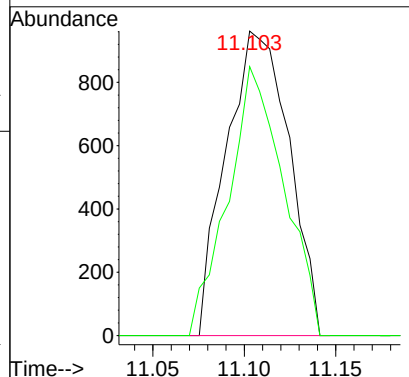
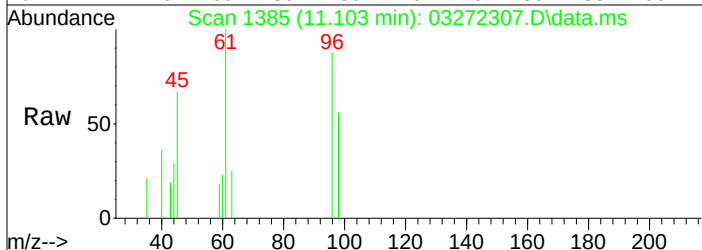
Tgt Ion	72	43	Resp	10966	Lower	Upper
Ion Ratio	100	475.4			449.4	489.4





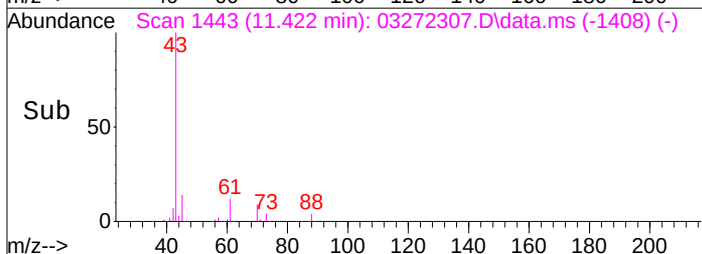
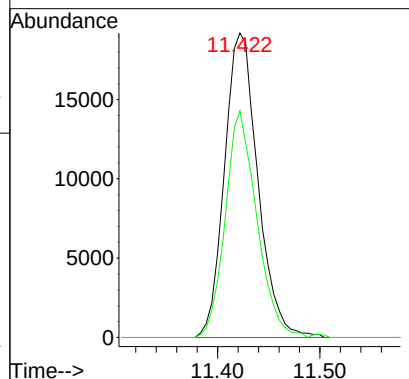
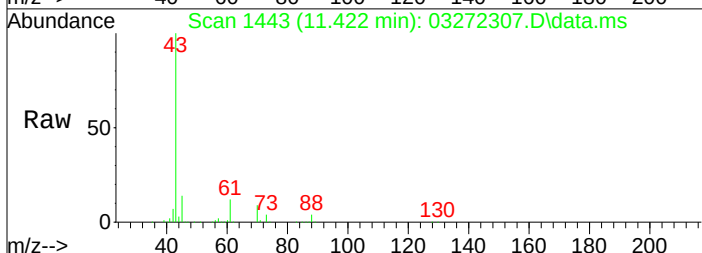
#28
 cis-1,2-Dichloroethene
 Concen: 0.09 ng
 RT: 11.10 min Scan# 1385
 Delta R.T. -0.022 min
 Lab File: 03272307.D
 Acq: 27 Mar 2023 8:21

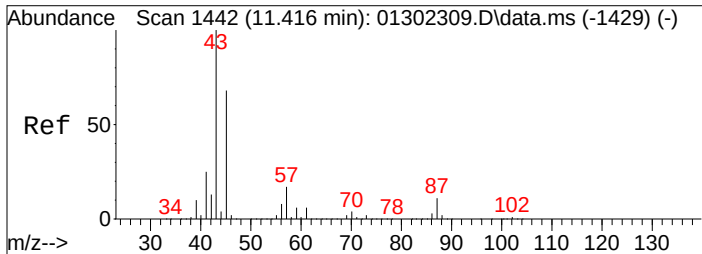
Tgt Ion:	61	Resp:	2296
Ion Ratio		Lower	Upper
61	100		
96	78.4	49.9	89.9



#30
 Ethyl Acetate
 Concen: 5.98 ng
 RT: 11.42 min Scan# 1443
 Delta R.T. -0.005 min
 Lab File: 03272307.D
 Acq: 27 Mar 2023 8:21

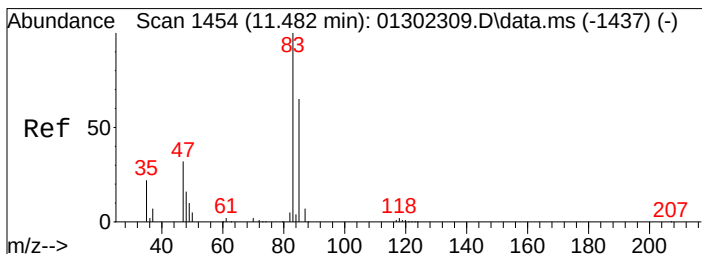
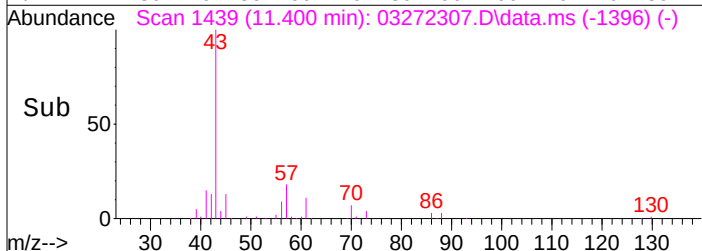
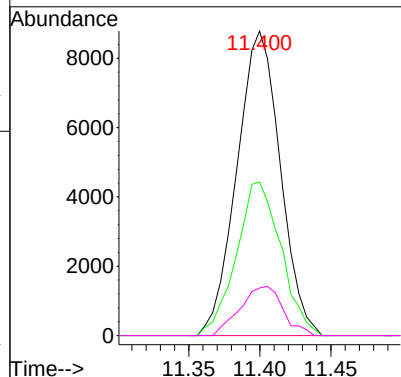
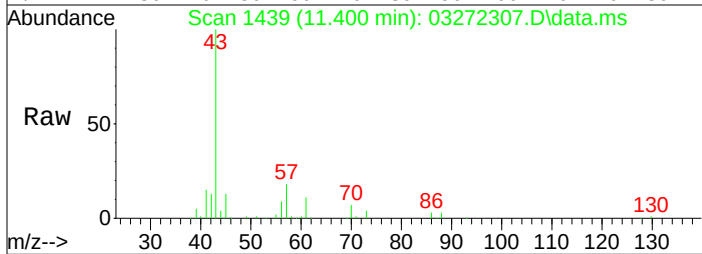
Tgt Ion:	61	Resp:	43544
Ion Ratio		Lower	Upper
61	100		
70	70.1	52.8	92.8





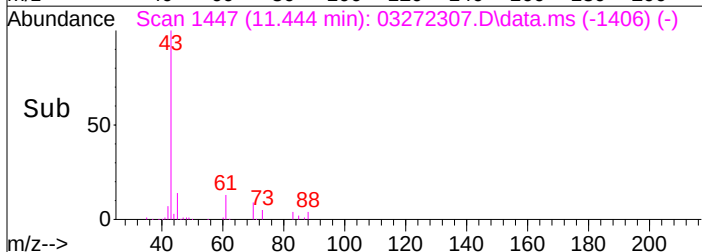
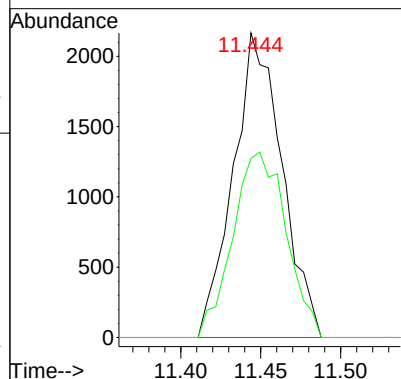
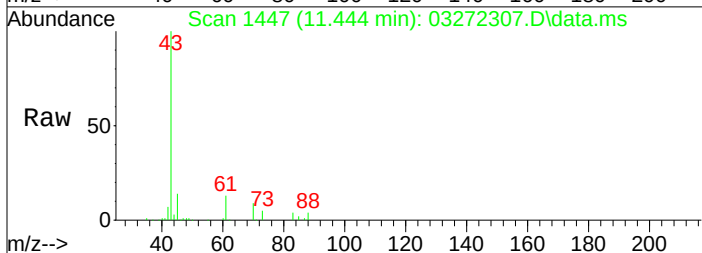
#31
n-Hexane
Concen: 0.51 ng
RT: 11.40 min Scan# 1439
Delta R.T. -0.011 min
Lab File: 03272307.D
Acq: 27 Mar 2023 8:21

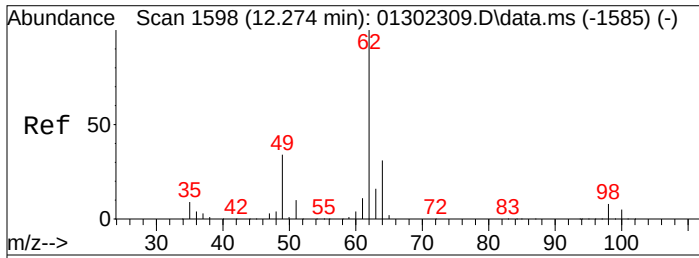
Tgt Ion:	57	Resp:	18642
Ion Ratio		Lower	Upper
57	100		
56	51.9	39.9	59.9
86	16.0	12.3	18.5



#32
Chloroform
Concen: 0.17 ng
RT: 11.44 min Scan# 1447
Delta R.T. -0.022 min
Lab File: 03272307.D
Acq: 27 Mar 2023 8:21

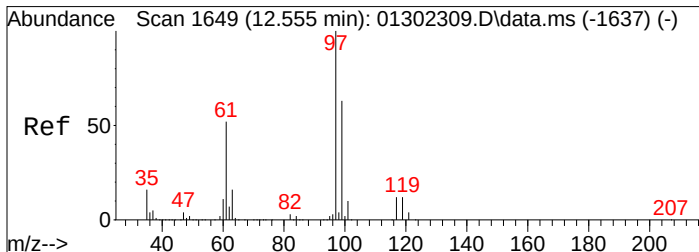
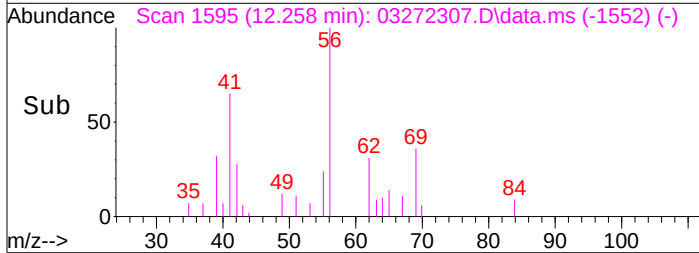
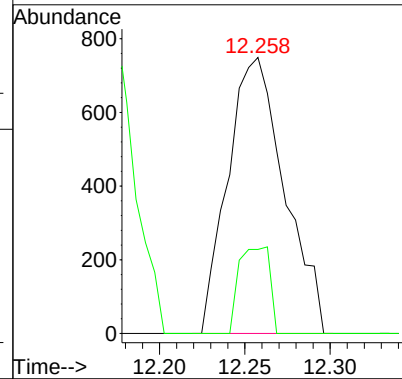
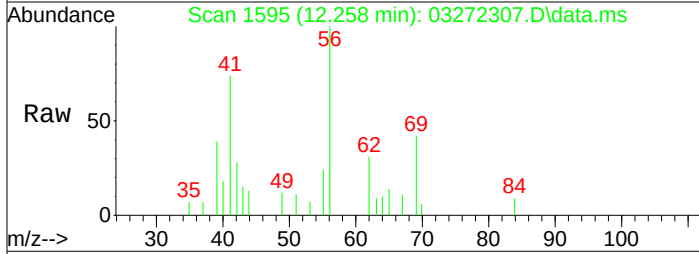
Tgt Ion:	83	Resp:	4596
Ion Ratio		Lower	Upper
83	100		
85	66.6	45.5	85.5





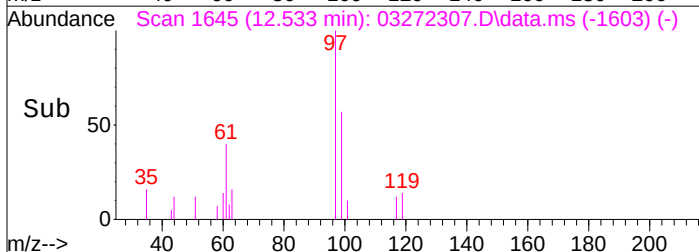
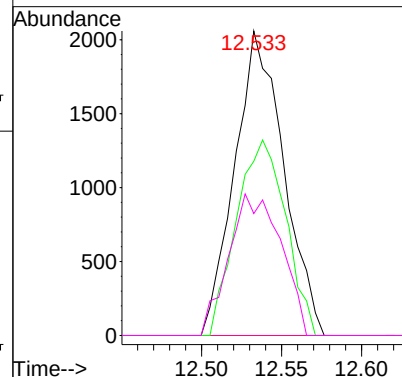
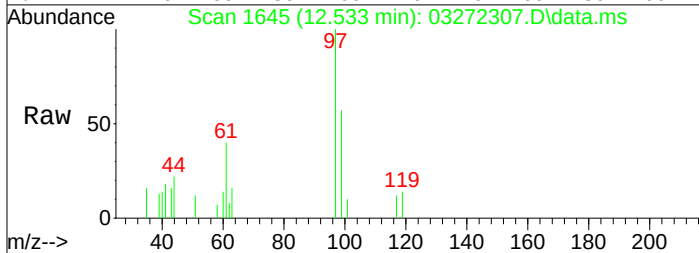
#36
 1,2-Dichloroethane
 Concen: 0.08 ng
 RT: 12.26 min Scan# 1595
 Delta R.T. -0.011 min
 Lab File: 03272307.D
 Acq: 27 Mar 2023 8:21

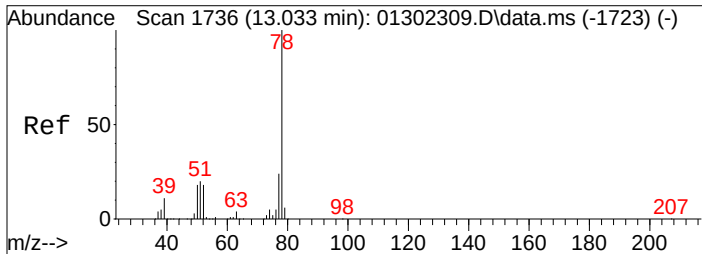
Tgt Ion: 62 Resp: 1733
 Ion Ratio Lower Upper
 62 100
 64 17.0 12.5 52.5



#38
 1,1,1-Trichloroethane
 Concen: 0.17 ng
 RT: 12.53 min Scan# 1645
 Delta R.T. -0.016 min
 Lab File: 03272307.D
 Acq: 27 Mar 2023 8:21

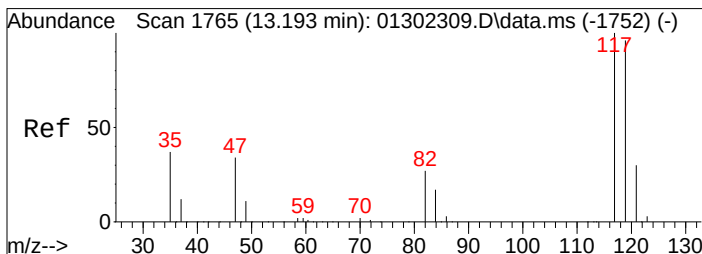
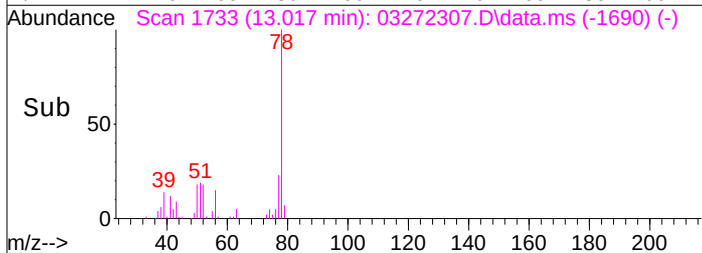
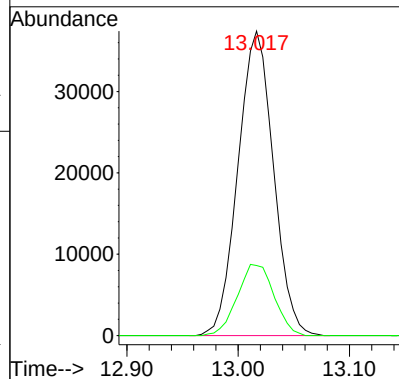
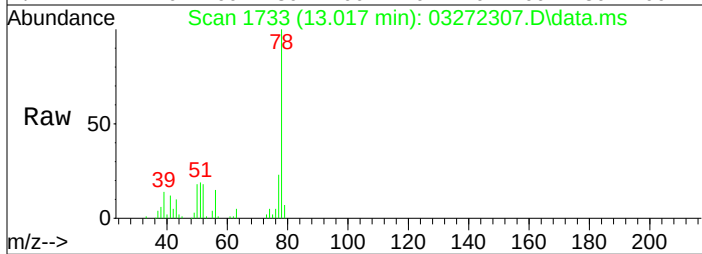
Tgt Ion: 97 Resp: 4388
 Ion Ratio Lower Upper
 97 100
 99 64.5 44.0 84.0
 61 49.5 26.8 66.8





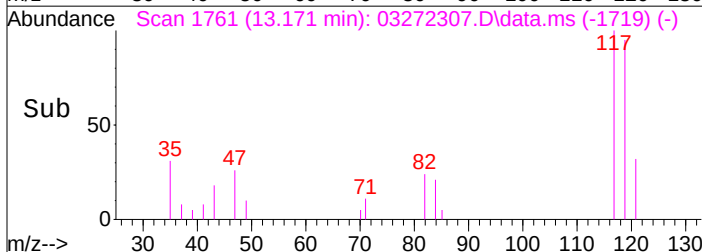
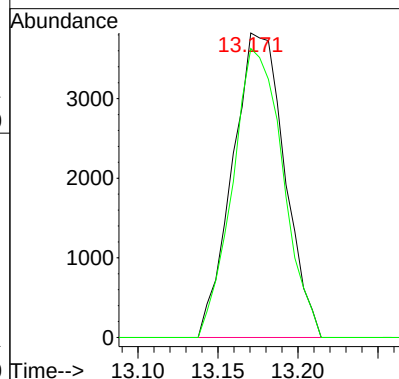
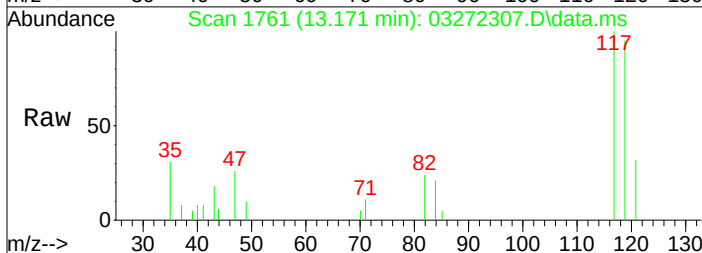
#41
Benzene
Concen: 1.22 ng
RT: 13.02 min Scan# 1733
Delta R.T. -0.011 min
Lab File: 03272307.D
Acq: 27 Mar 2023 8:21

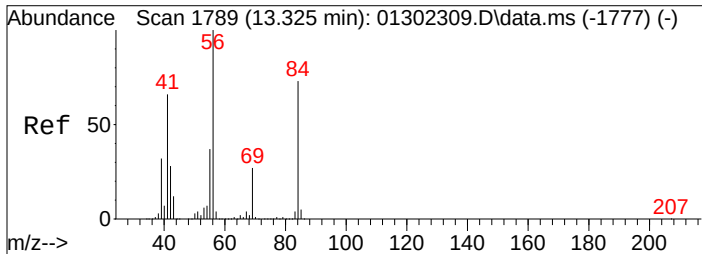
Tgt Ion: 78 Resp: 82903
Ion Ratio Lower Upper
78 100
77 24.2 3.3 43.3



#42
Carbon Tetrachloride
Concen: 0.39 ng
RT: 13.17 min Scan# 1761
Delta R.T. -0.016 min
Lab File: 03272307.D
Acq: 27 Mar 2023 8:21

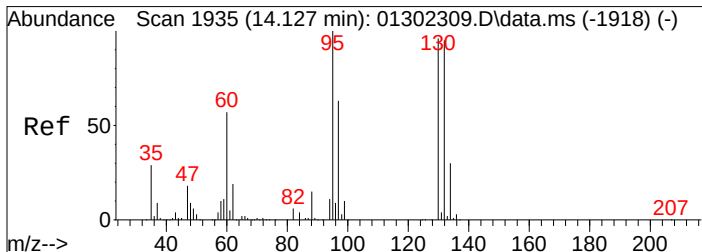
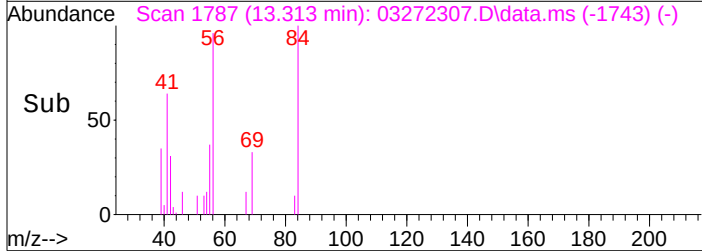
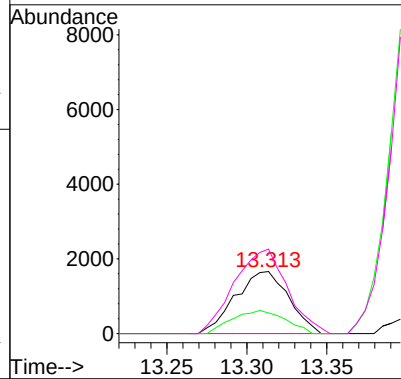
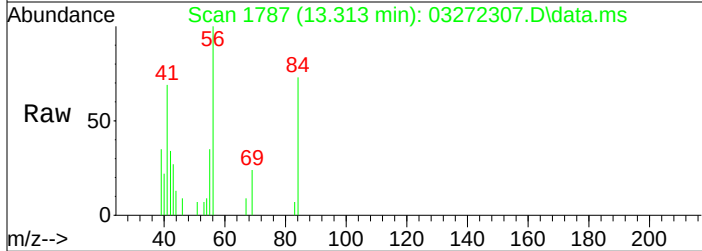
Tgt Ion: 117 Resp: 8670
Ion Ratio Lower Upper
117 100
119 91.8 76.2 116.2





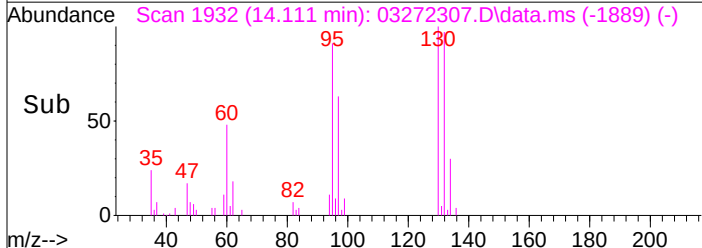
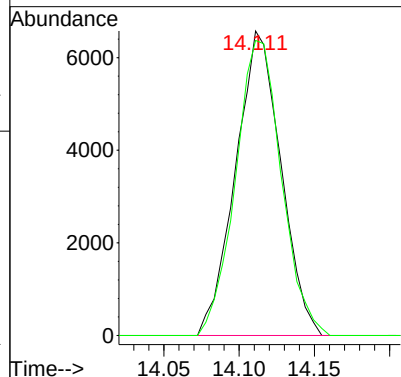
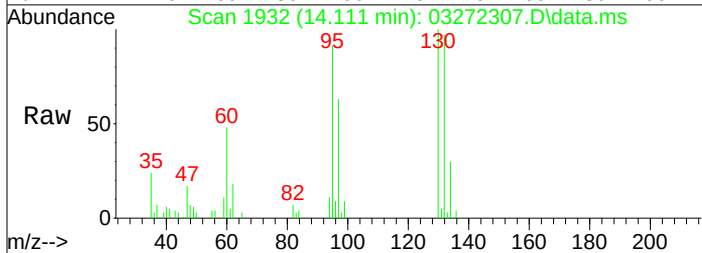
#43
Cyclohexane
Concen: 0.13 ng
RT: 13.31 min Scan# 1787
Delta R.T. -0.005 min
Lab File: 03272307.D
Acq: 27 Mar 2023 8:21

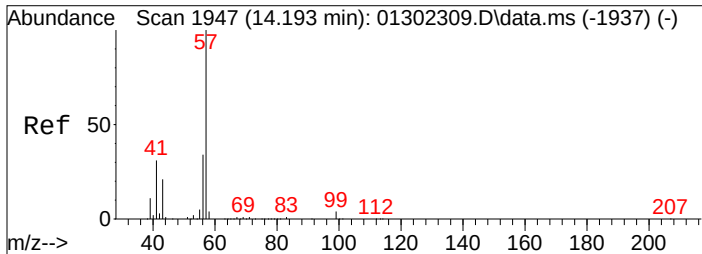
Tgt Ion:	84	Resp:	3858
Ion Ratio	Lower	Upper	
84	100		
69	37.2	16.2	56.2
56	135.3	115.2	155.2



#47
Trichloroethene
Concen: 0.74 ng
RT: 14.11 min Scan# 1932
Delta R.T. -0.011 min
Lab File: 03272307.D
Acq: 27 Mar 2023 8:21

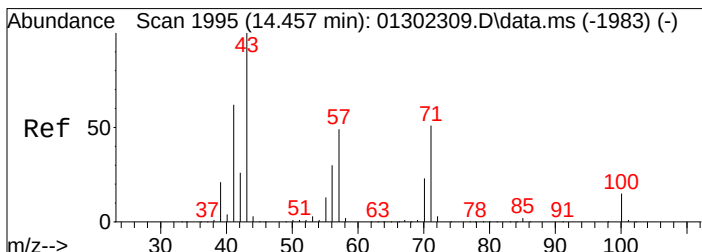
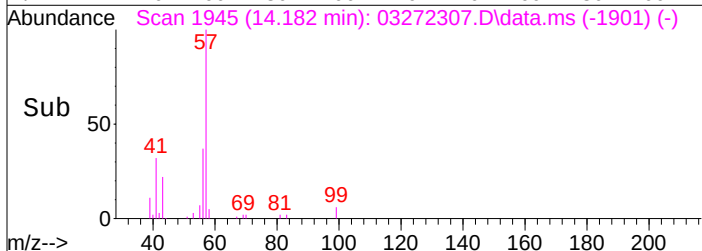
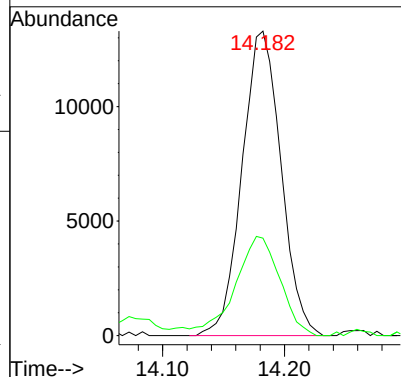
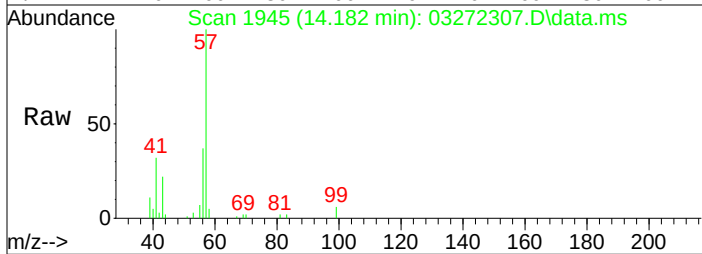
Tgt Ion:	130	Resp:	13777
Ion Ratio	Lower	Upper	
130	100		
132	98.0	78.7	118.7





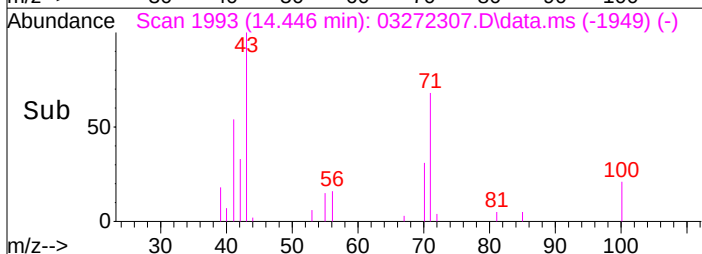
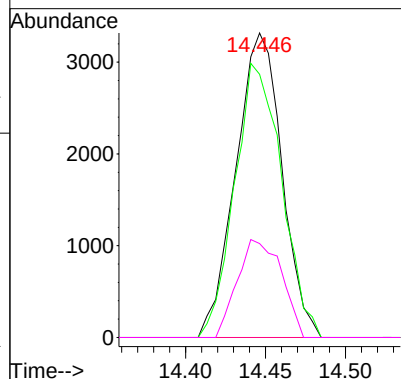
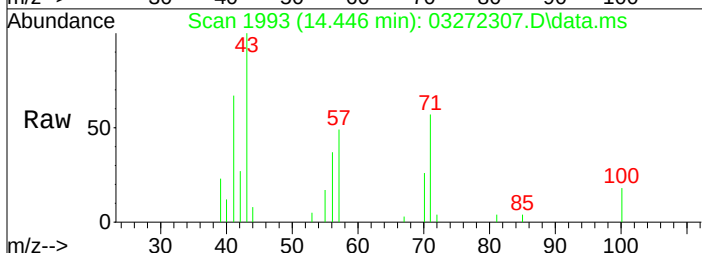
#49
 2,2,4-Trimethylpentane (Isooctane)
 Concen: 0.32 ng
 RT: 14.18 min Scan# 1945
 Delta R.T. -0.005 min
 Lab File: 03272307.D
 Acq: 27 Mar 2023 8:21

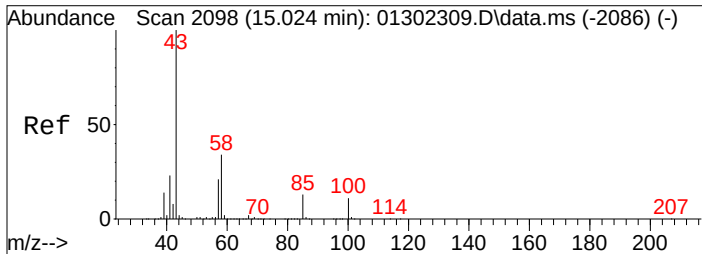
Tgt Ion:	57	Resp:	29524
Ion Ratio	Lower	Upper	
57	100		
41	37.3	5.8	45.8



#51
 n-Heptane
 Concen: 0.33 ng
 RT: 14.45 min Scan# 1993
 Delta R.T. -0.005 min
 Lab File: 03272307.D
 Acq: 27 Mar 2023 8:21

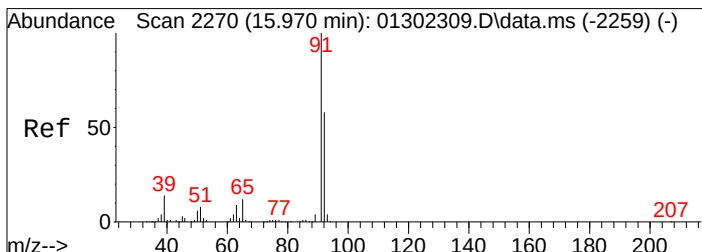
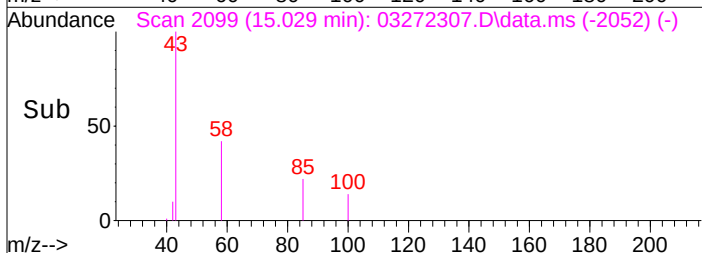
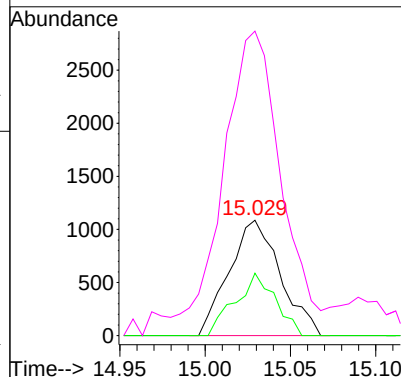
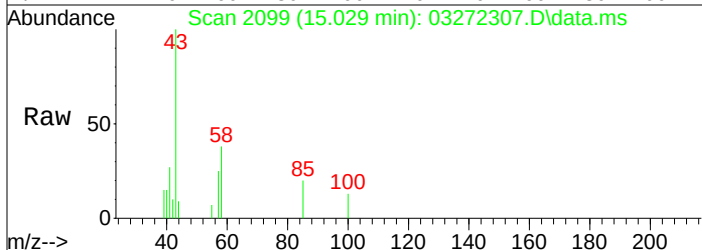
Tgt Ion:	71	Resp:	6663
Ion Ratio	Lower	Upper	
71	100		
57	91.5	81.4	121.4
100	30.8	11.8	51.8





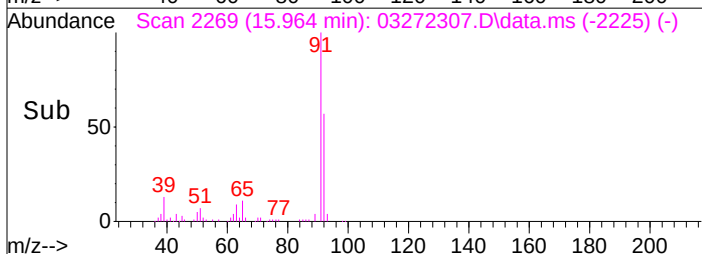
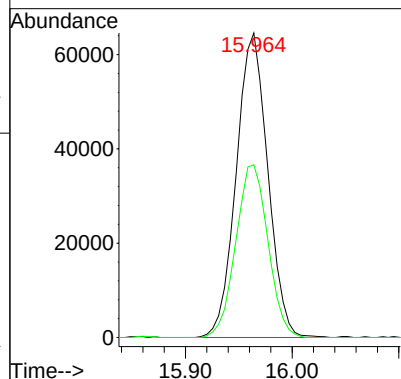
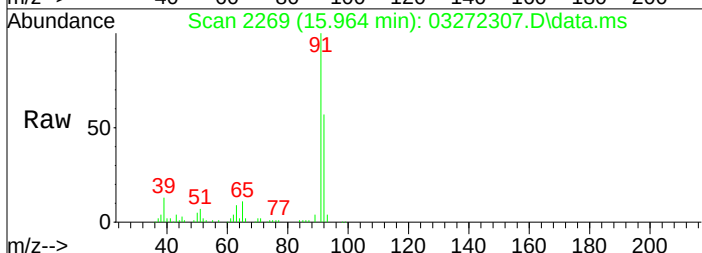
#53
 4-Methyl-2-pentanone
 Concen: 0.14 ng
 RT: 15.03 min Scan# 2099
 Delta R.T. 0.011 min
 Lab File: 03272307.D
 Acq: 27 Mar 2023 8:21

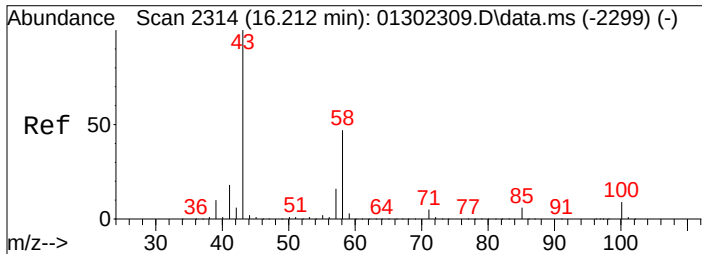
Tgt Ion:	58	Resp:	2272
Ion Ratio	Lower	Upper	
58	100		
85	42.4	31.7	47.5
43	312.7	214.3	321.5



#58
 Toluene
 Concen: 1.71 ng
 RT: 15.96 min Scan# 2269
 Delta R.T. -0.005 min
 Lab File: 03272307.D
 Acq: 27 Mar 2023 8:21

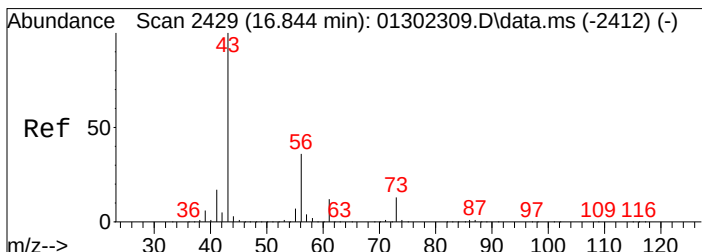
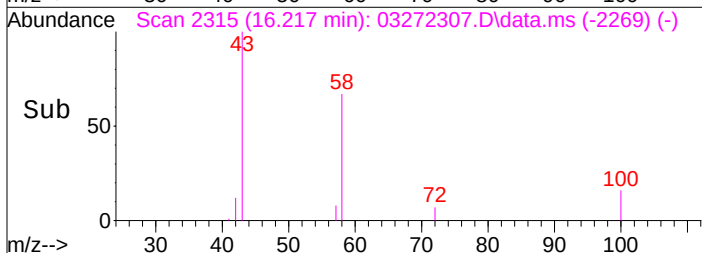
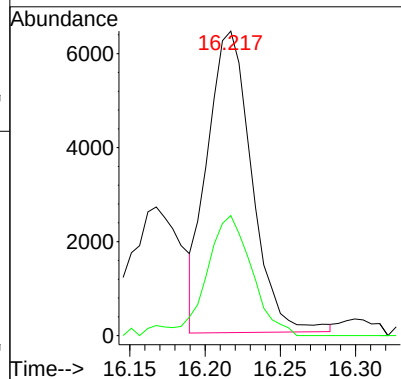
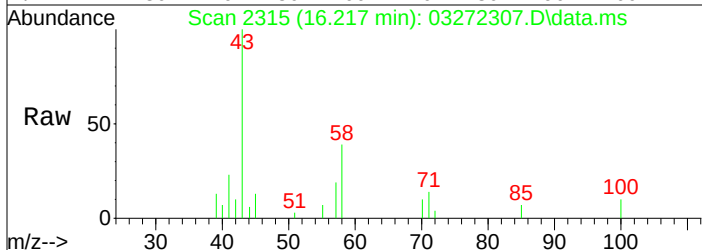
Tgt Ion:	91	Resp:	132722
Ion Ratio	Lower	Upper	
91	100		
92	57.8	39.8	79.8





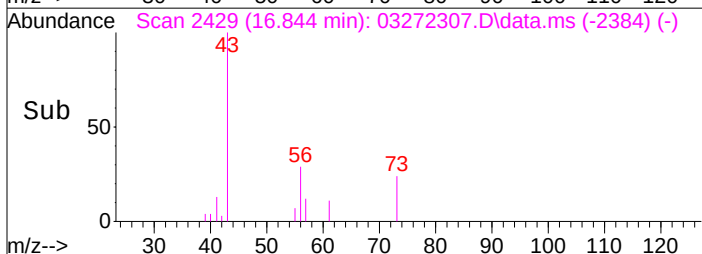
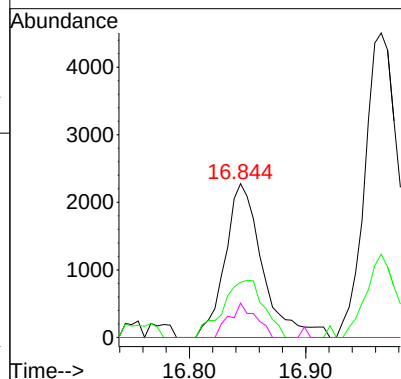
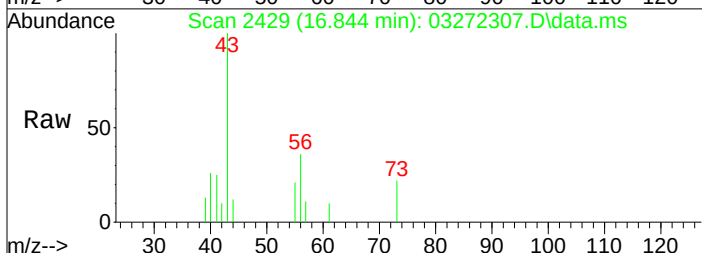
#59
2-Hexanone
Concen: 0.32 ng
RT: 16.22 min Scan# 2315
Delta R.T. 0.006 min
Lab File: 03272307.D
Acq: 27 Mar 2023 8:21

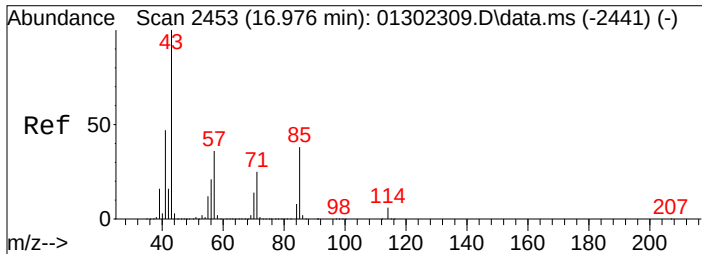
Tgt Ion: 43 Resp: 13163
Ion Ratio Lower Upper
43 100
58 39.5 32.3 72.3



#62
n-Butyl Acetate
Concen: 0.11 ng
RT: 16.84 min Scan# 2429
Delta R.T. -0.000 min
Lab File: 03272307.D
Acq: 27 Mar 2023 8:21

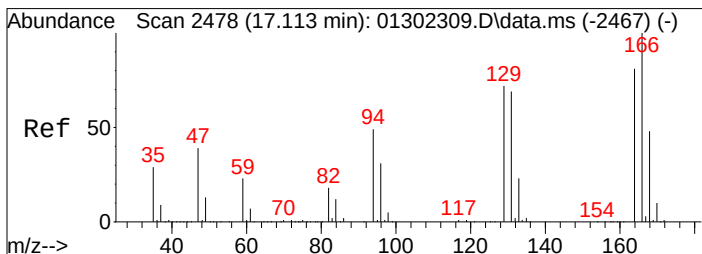
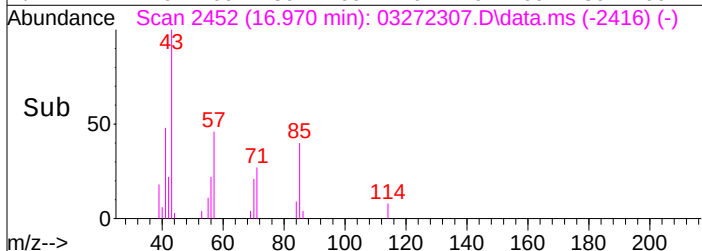
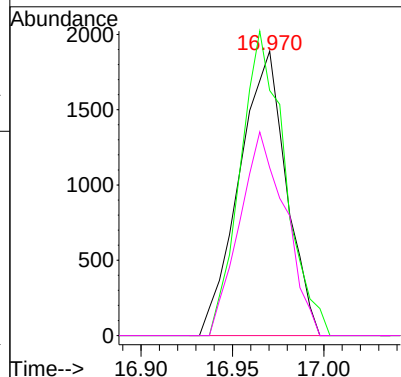
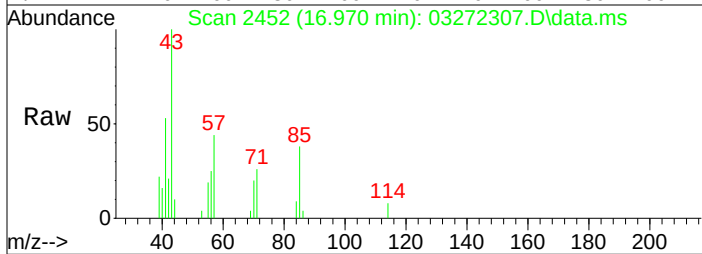
Tgt Ion: 43 Resp: 5088
Ion Ratio Lower Upper
43 100
56 40.7 21.0 61.0
73 15.8 0.0 34.3





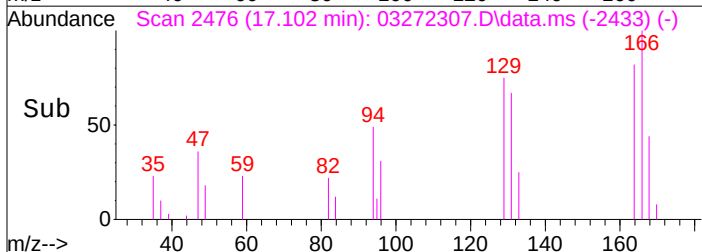
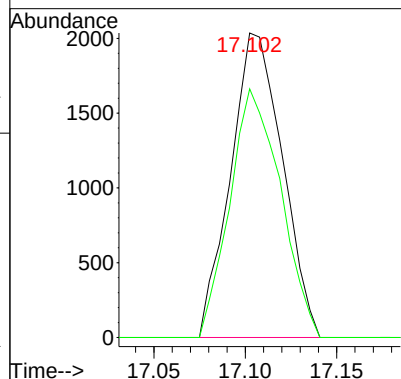
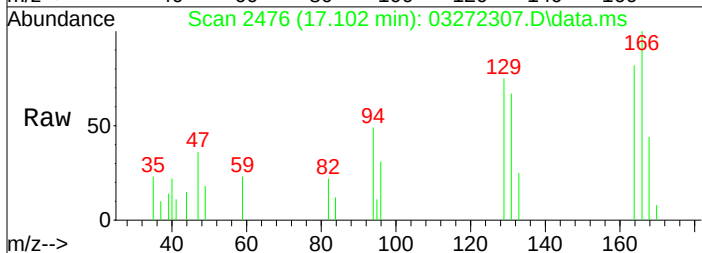
#63
n-Octane
Concen: 0.17 ng
RT: 16.97 min Scan# 2452
Delta R.T. 0.000 min
Lab File: 03272307.D
Acq: 27 Mar 2023 8:21

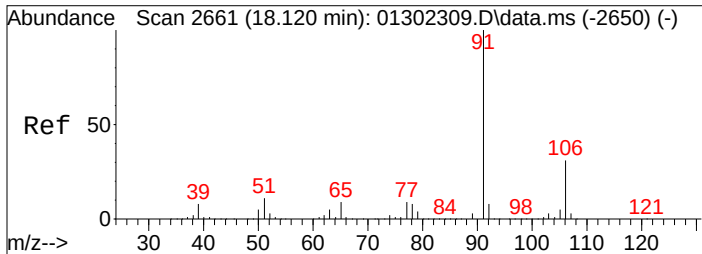
Tgt Ion: 57 Resp: 3383
Ion Ratio Lower Upper
57 100
85 101.4 81.4 122.2
71 70.1 51.7 77.5



#64
Tetrachloroethene
Concen: 0.20 ng
RT: 17.10 min Scan# 2476
Delta R.T. -0.011 min
Lab File: 03272307.D
Acq: 27 Mar 2023 8:21

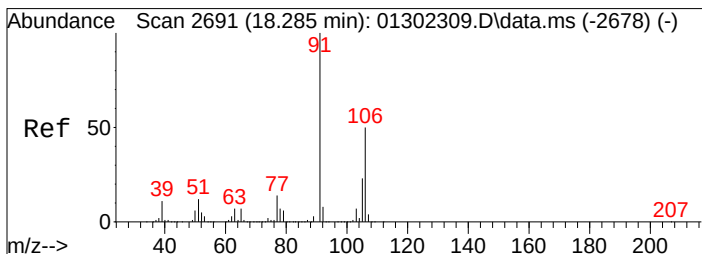
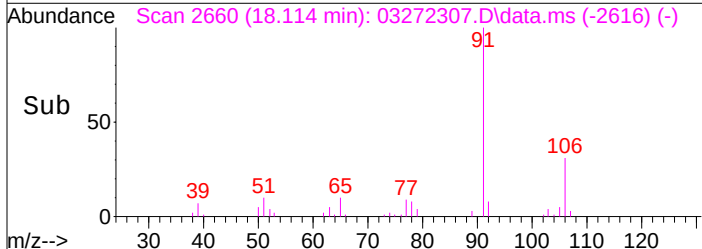
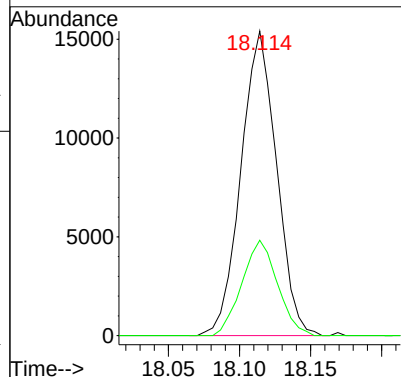
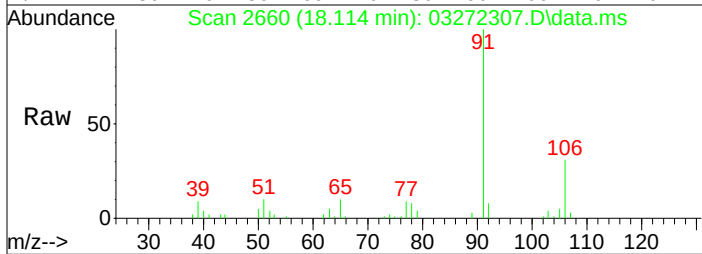
Tgt Ion: 166 Resp: 4019
Ion Ratio Lower Upper
166 100
164 79.8 58.7 98.7





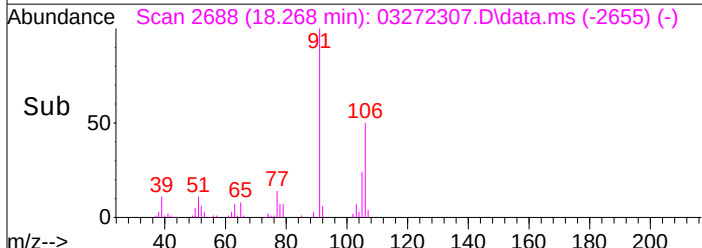
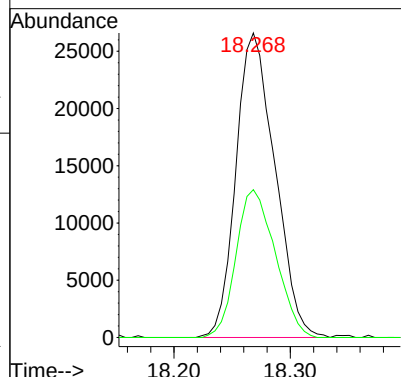
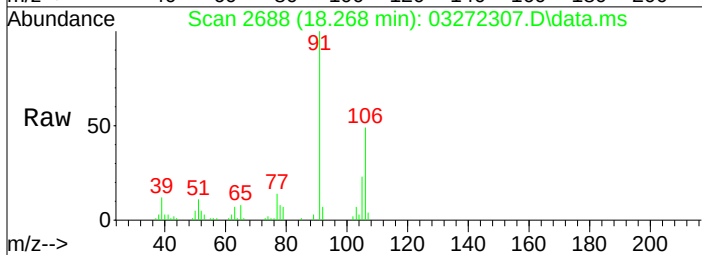
#66
Ethylbenzene
Concen: 0.31 ng
RT: 18.11 min Scan# 2660
Delta R.T. -0.005 min
Lab File: 03272307.D
Acq: 27 Mar 2023 8:21

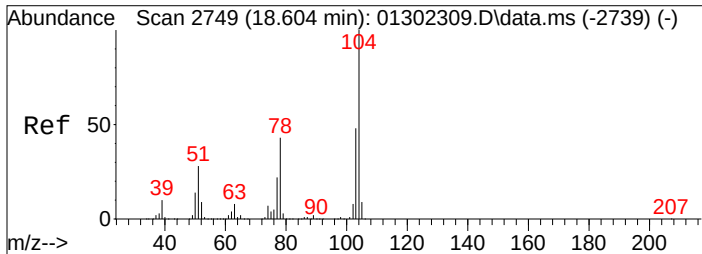
Tgt Ion	91	106	Resp	26830	Lower	Upper
Ion Ratio	100	31.3				
		11.5				51.5



#67
m- & p-Xylenes
Concen: 0.89 ng
RT: 18.27 min Scan# 2688
Delta R.T. -0.016 min
Lab File: 03272307.D
Acq: 27 Mar 2023 8:21

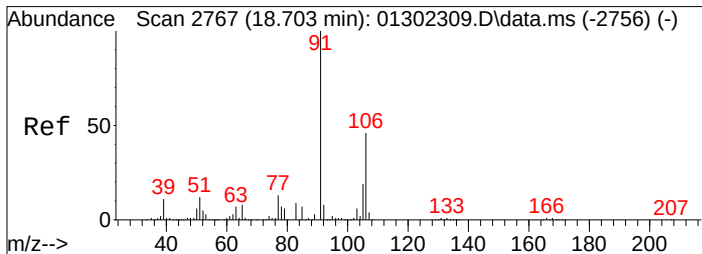
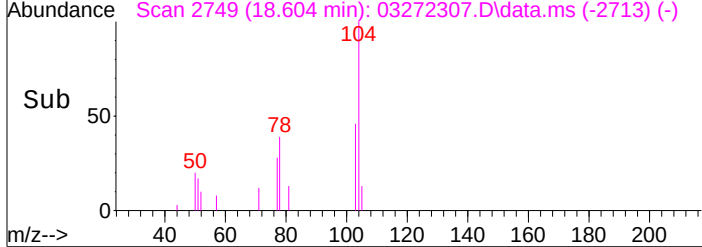
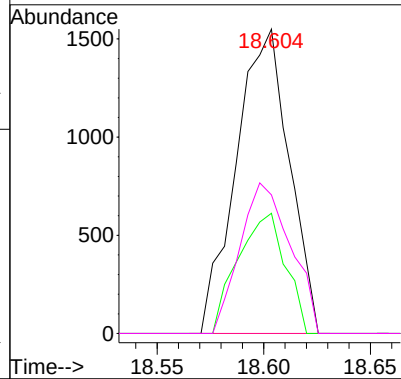
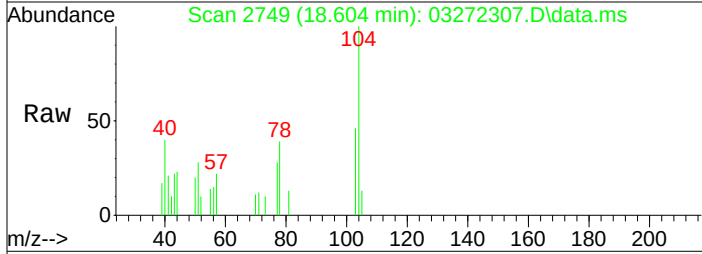
Tgt Ion	91	106	Resp	61911	Lower	Upper
Ion Ratio	100	48.9				
		29.2				69.2





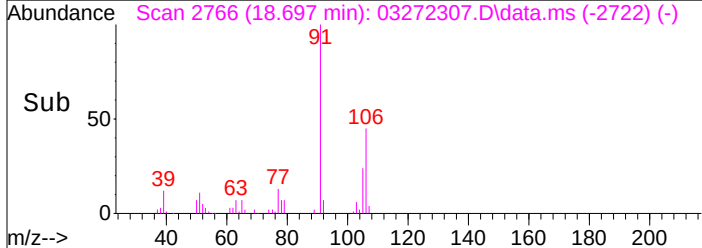
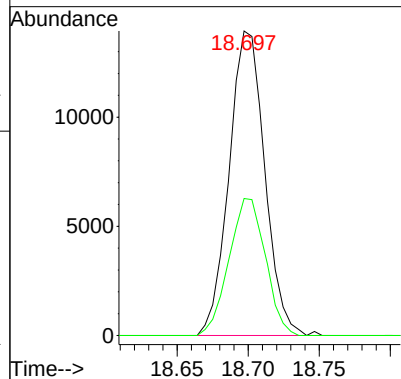
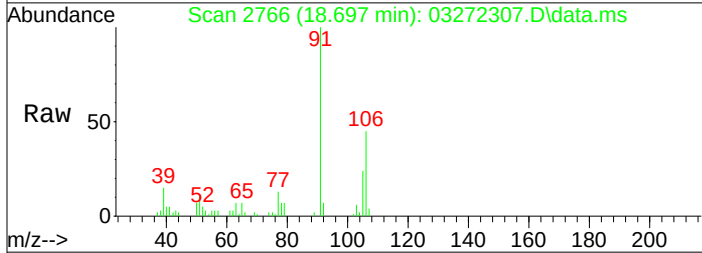
#69
Styrene
Concen: 0.05 ng
RT: 18.60 min Scan# 2749
Delta R.T. 0.000 min
Lab File: 03272307.D
Acq: 27 Mar 2023 8:21

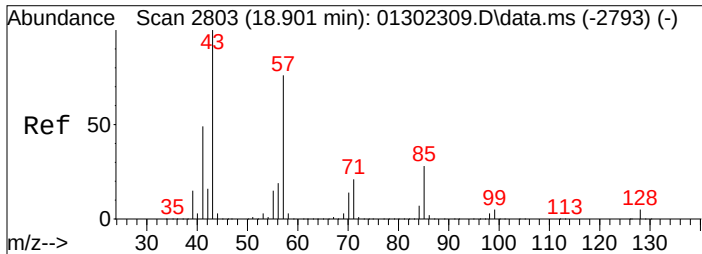
Tgt Ion: 104	Resp: 2678
Ion Ratio	Lower Upper
104 100	
78 35.6	20.0 60.0
103 47.4	26.9 66.9



#70
o-Xylene
Concen: 0.36 ng
RT: 18.70 min Scan# 2766
Delta R.T. -0.005 min
Lab File: 03272307.D
Acq: 27 Mar 2023 8:21

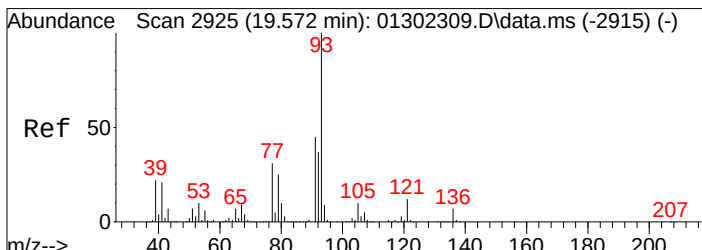
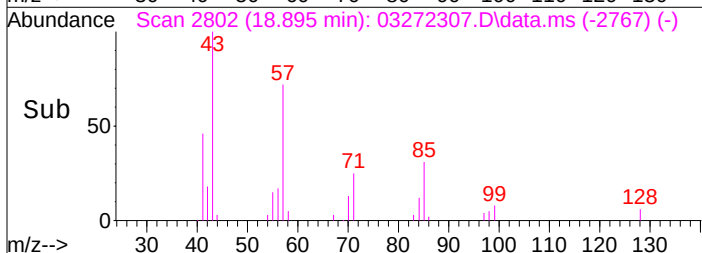
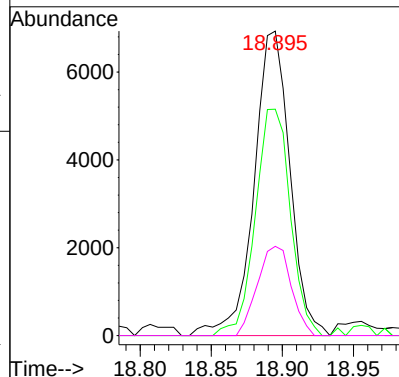
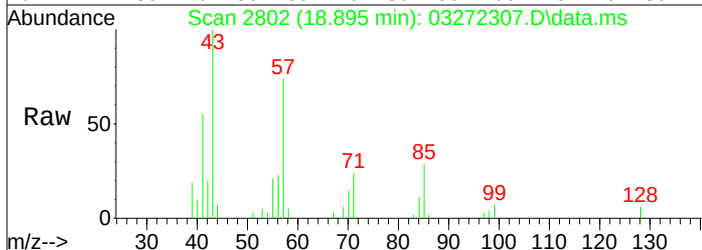
Tgt Ion: 91	Resp: 24389
Ion Ratio	Lower Upper
91 100	
106 45.8	27.3 67.3





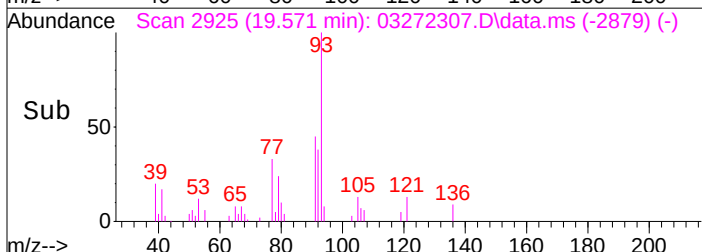
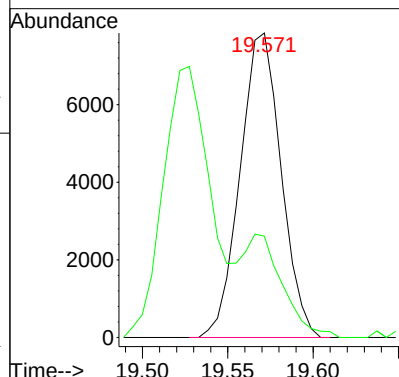
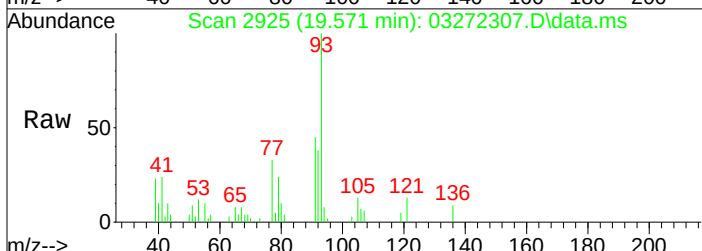
#71
n-Nonane
Concen: 0.25 ng
RT: 18.90 min Scan# 2802
Delta R.T. -0.005 min
Lab File: 03272307.D
Acq: 27 Mar 2023 8:21

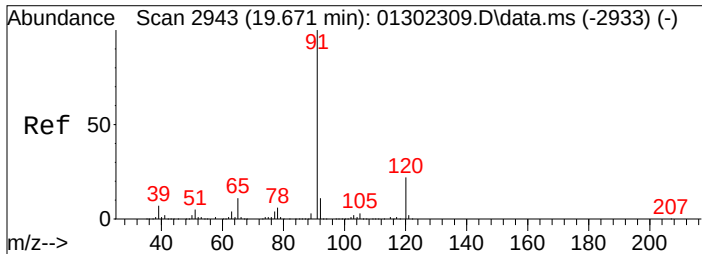
Tgt Ion:	43	Resp:	12152
Ion Ratio		Lower	Upper
43	100		
57	72.6	64.6	104.6
85	27.7	9.6	49.6



#75
alpha-Pinene
Concen: 0.59 ng
RT: 19.57 min Scan# 2925
Delta R.T. 0.000 min
Lab File: 03272307.D
Acq: 27 Mar 2023 8:21

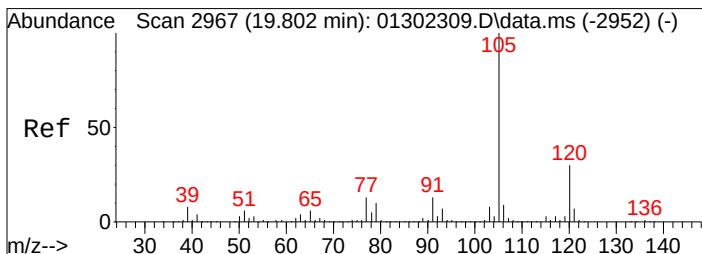
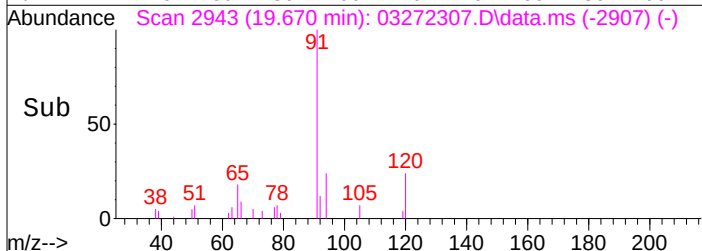
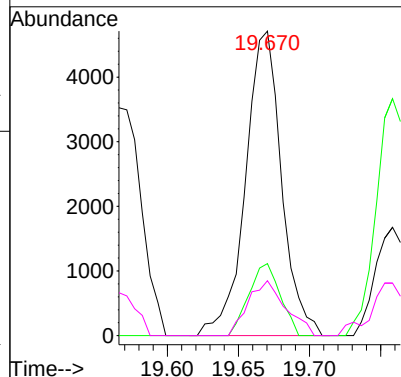
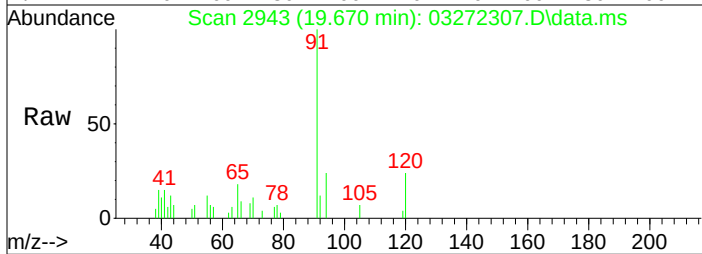
Tgt Ion:	93	Resp:	13108
Ion Ratio		Lower	Upper
93	100		
77	31.4	11.7	51.7





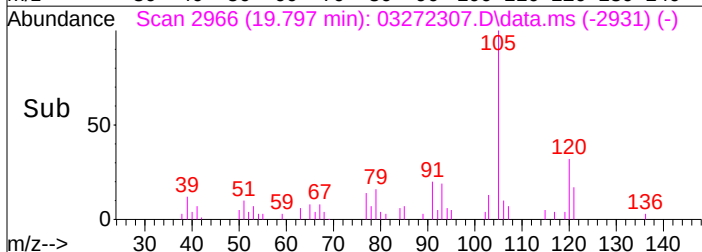
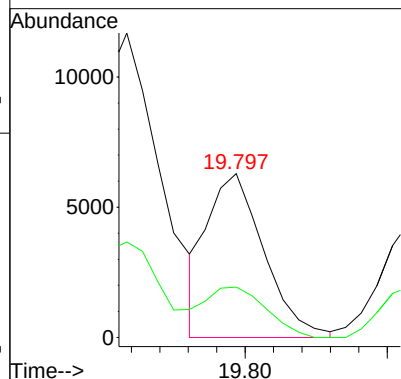
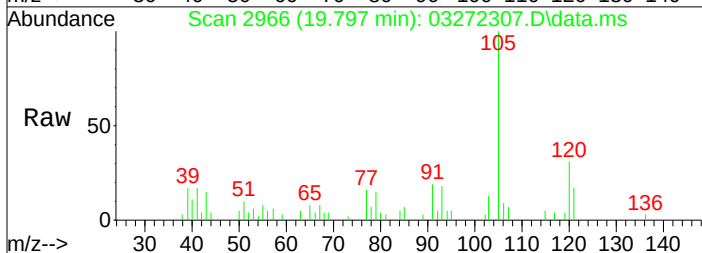
#76
n-Propylbenzene
Concen: 0.08 ng
RT: 19.67 min Scan# 2943
Delta R.T. 0.000 min
Lab File: 03272307.D
Acq: 27 Mar 2023 8:21

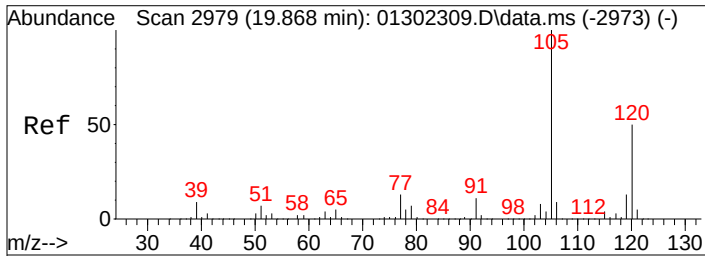
Tgt Ion:	91	Resp:	8322
Ion Ratio	Lower	Upper	
91	100		
120	20.5	4.0	44.0
65	18.7	0.0	29.9



#78
4-Ethyltoluene
Concen: 0.11 ng
RT: 19.80 min Scan# 2966
Delta R.T. -0.005 min
Lab File: 03272307.D
Acq: 27 Mar 2023 8:21

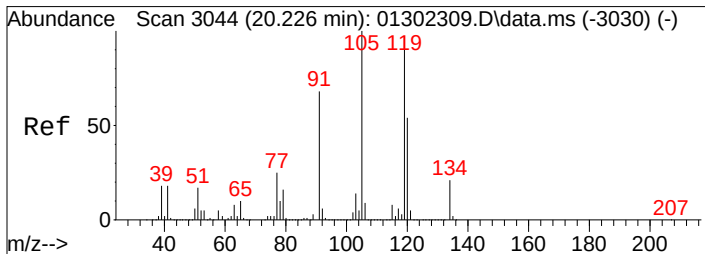
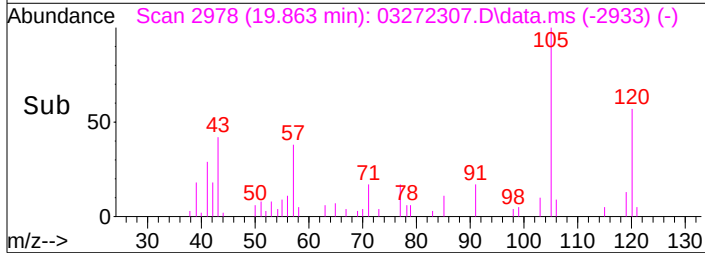
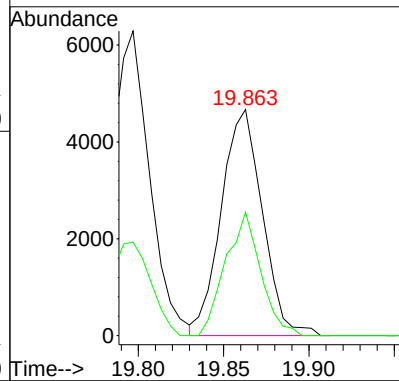
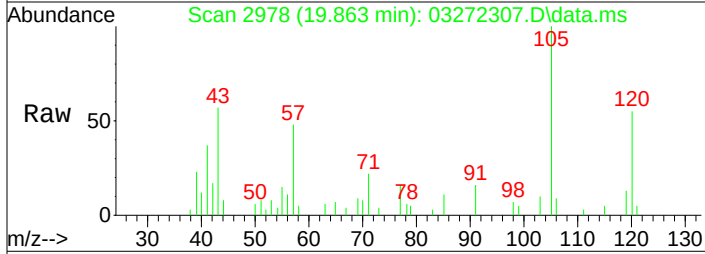
Tgt Ion:	105	Resp:	8734
Ion Ratio	Lower	Upper	
105	100		
120	32.6	11.1	51.1





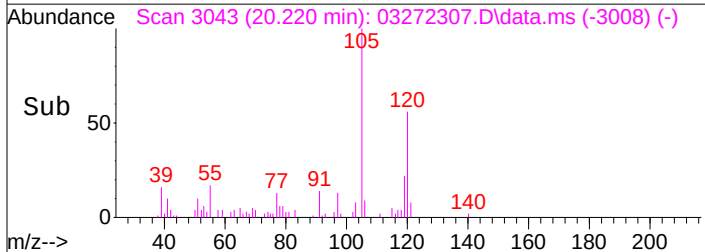
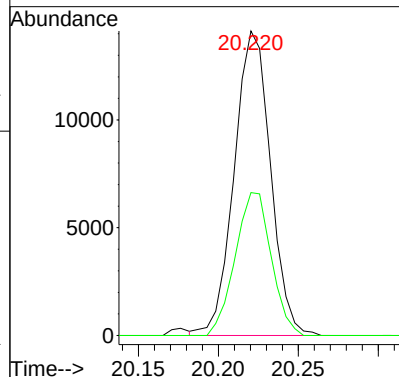
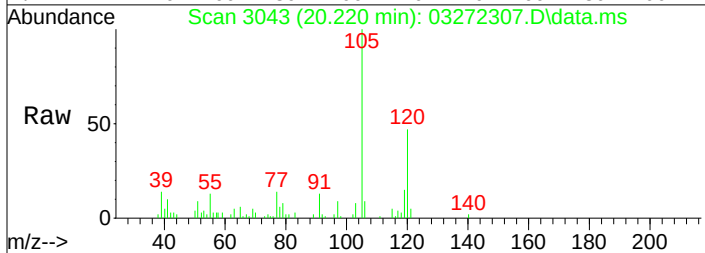
#79
1,3,5-Trimethylbenzene
Concen: 0.11 ng
RT: 19.86 min Scan# 2978
Delta R.T. 0.000 min
Lab File: 03272307.D
Acq: 27 Mar 2023 8:21

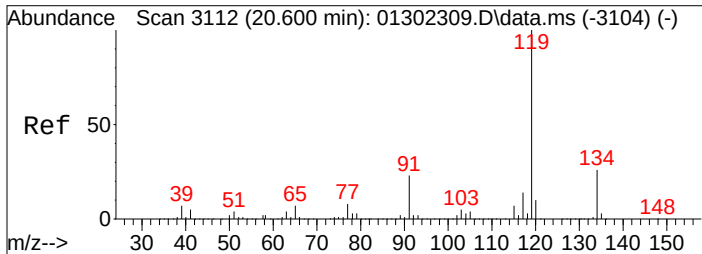
Tgt Ion:105 Resp: 7824
Ion Ratio Lower Upper
105 100
120 46.8 32.5 72.5



#82
1,2,4-Trimethylbenzene
Concen: 0.32 ng
RT: 20.22 min Scan# 3043
Delta R.T. -0.005 min
Lab File: 03272307.D
Acq: 27 Mar 2023 8:21

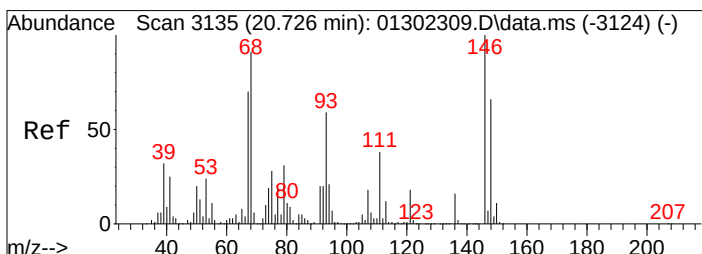
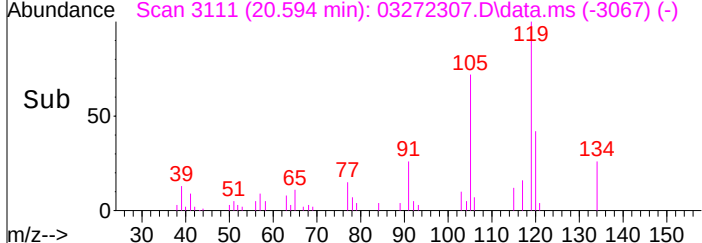
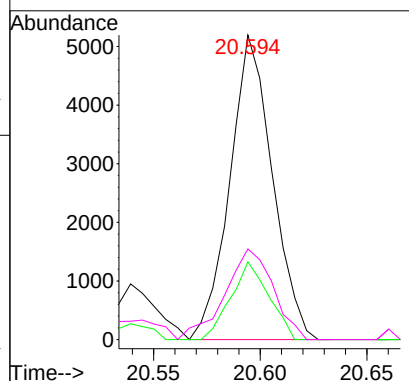
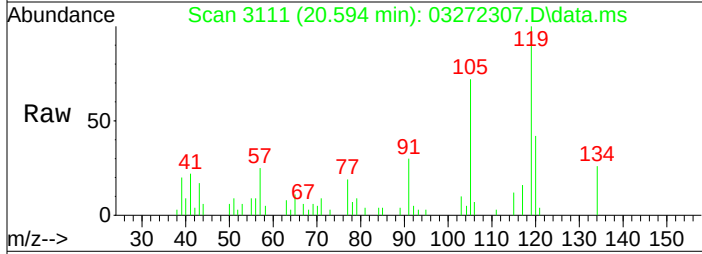
Tgt Ion:105 Resp: 22388
Ion Ratio Lower Upper
105 100
120 46.5 37.2 77.2





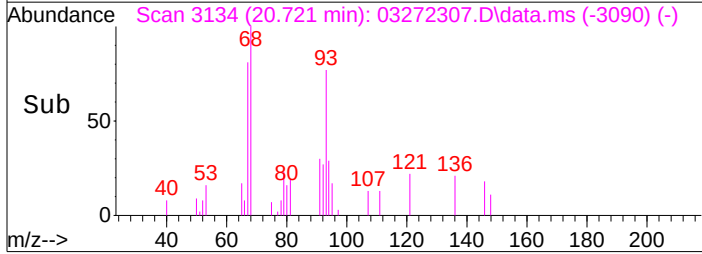
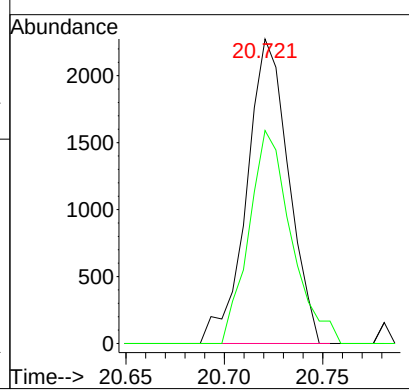
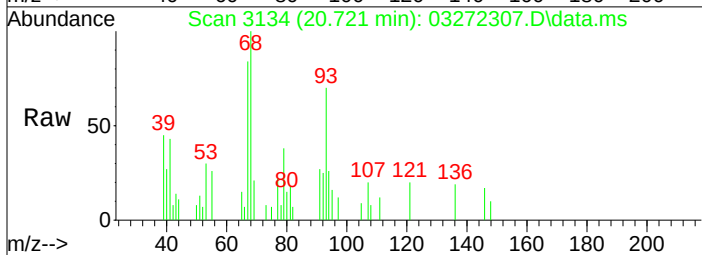
#88
 4-Isopropyltoluene (p-Cymene)
 Concen: 0.07 ng
 RT: 20.59 min Scan# 3111
 Delta R.T. -0.005 min
 Lab File: 03272307.D
 Acq: 27 Mar 2023 8:21

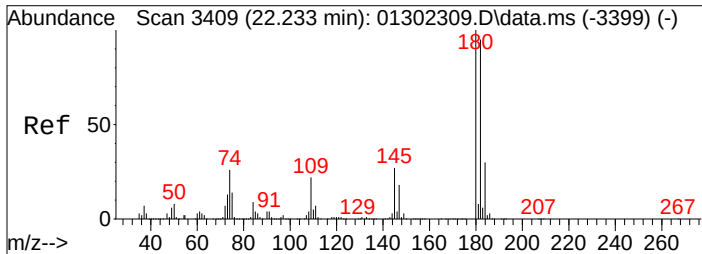
Tgt Ion: 119	Resp: 7186
Ion Ratio	Lower Upper
119 100	
134 22.9	7.5 47.5
91 33.8	3.7 43.7



#91
 d-Limonene
 Concen: 0.17 ng
 RT: 20.72 min Scan# 3134
 Delta R.T. -0.005 min
 Lab File: 03272307.D
 Acq: 27 Mar 2023 8:21

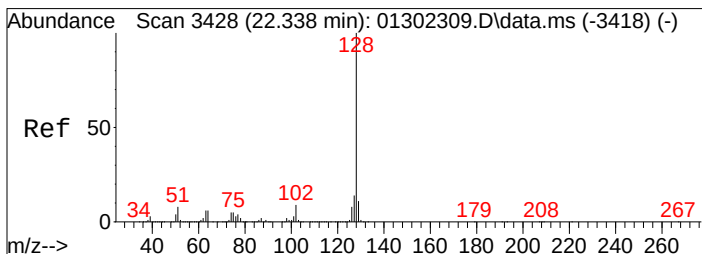
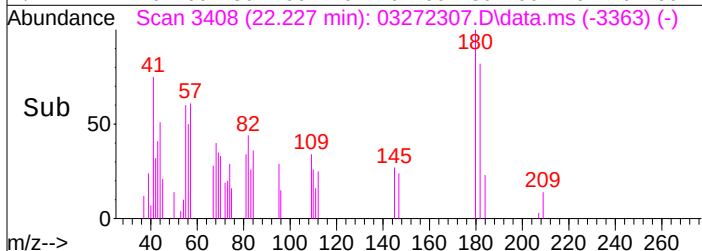
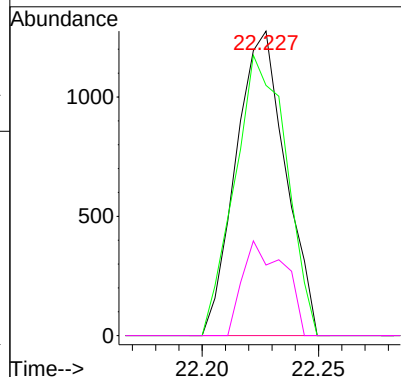
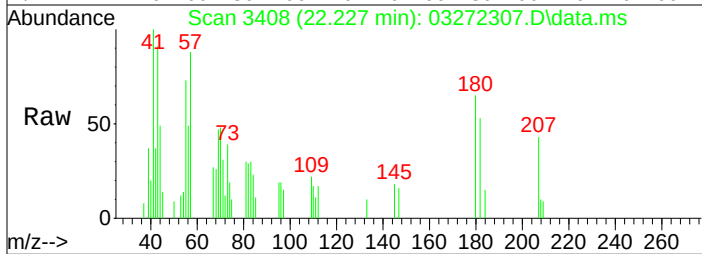
Tgt Ion: 68	Resp: 3369
Ion Ratio	Lower Upper
68 100	
93 70.6	49.6 89.6





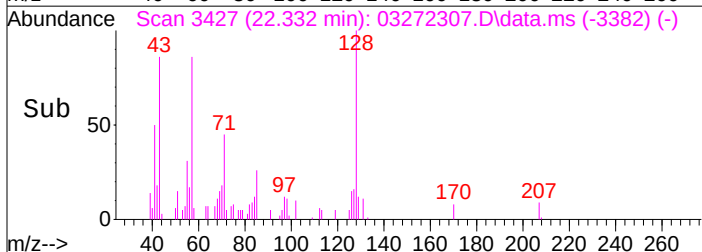
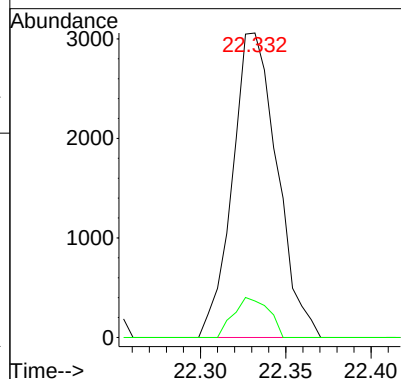
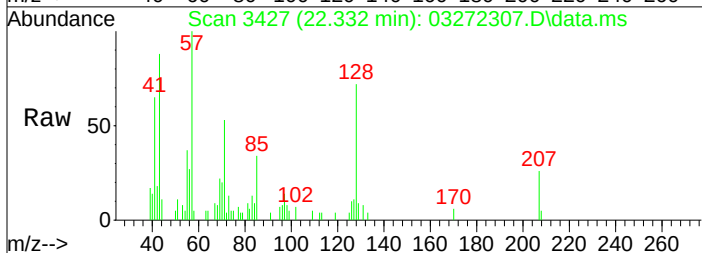
#94
 1,2,4-Trichlorobenzene
 Concen: 0.07 ng
 RT: 22.23 min Scan# 3408
 Delta R.T. 0.000 min
 Lab File: 03272307.D
 Acq: 27 Mar 2023 8:21

Tgt Ion:180	Resp:	1892
Ion Ratio	Lower	Upper
180	100	
182	95.9	75.3
184	26.2	23.9



#95
 Naphthalene
 Concen: 0.06 ng
 RT: 22.33 min Scan# 3427
 Delta R.T. -0.005 min
 Lab File: 03272307.D
 Acq: 27 Mar 2023 8:21

Tgt Ion:128	Resp:	5562
Ion Ratio	Lower	Upper
128	100	
129	10.3	0.0
		31.0



Data File : I:\MS16\DATA\2023_03\27\03272307.D
 Acq On : 27 Mar 2023 8:21
 Sample : P2301250-055 (1000mL)
 Misc : S35-01312301

Vial: 4
 Operator: WA
 Inst : GCMS-16

3/27/23

Quant Time: Mar 27 12:09:40 2023
 Quant Method : I:\MS16\METHODS\C16122022.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Dec 21 05:02:49 2022
 Response via : Initial Calibration
 DataAcq Meth:T015B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.28	130	208580	12.500	ng	-0.02
16) 1,4-Difluorobenzene (C_2)	13.41	114	968650	12.500	ng	-0.02
19) Chlorobenzene-d5 (C_3)	17.72	54	202856	12.500	ng	0.00

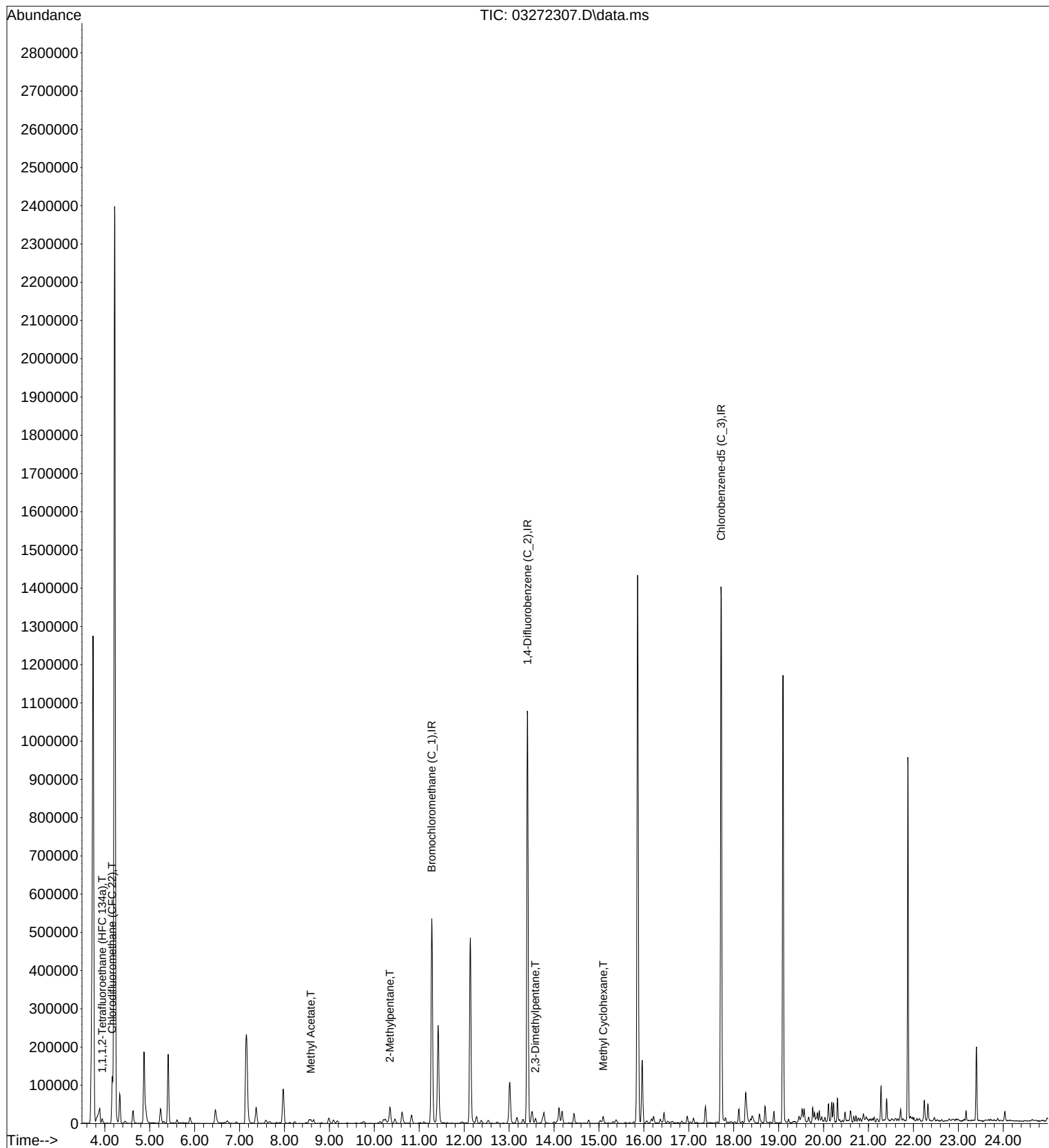
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.84	85	823	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.94	83	7123	0.431	ng	93
4) 1,1-Difluoroethane	4.05	65	378	N.D.		
5) Chlorodifluoromethane ...	4.16	67	3076	0.596	ng	79
6) 1-Chloro-1,1-Difluoroe...	4.63	65	2810	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	8.58	43	15456	0.299	ng	# 94
12) 2-Methylpentane	10.34	71	10261	0.500	ng	# 66
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	13.18	84	1840	N.D.		
17) 2,3-Dimethylpentane	13.58	56	5867	0.140	ng	91
18) Dibromomethane	13.83	174	208	N.D.		
20) Methyl Cyclohexane	15.10	55	7511	0.220	ng	86
21) 1,3-Dichloropropane	15.96	76	653	N.D.		
22) 1,1,1,2-Tetrachloroethane	17.69	131	52	N.D.		
23) 1-Chlorohexane	17.95	91	211	N.D.		
24) 1,2,3-Trichloropropane	18.70	75	457	N.D.		
25) Bromobenzene	19.30	77	52	N.D.		
26) 2-Chlorotoluene	0.00	91	0	N.D.	d	
27) 4-Chlorotoluene	0.00	91	0	N.D.	d	
28) Indane	20.77	117	3088	N.D.		
29) Indene	20.85	115	650	N.D.		
30) 1,2,4,5-Tetramethylben...	21.61	119	1524	N.D.		
31) 1,2,3,4-Tetramethylben...	21.65	119	2332	N.D.		
32) 1,2,3,5-Tetramethylben...	22.00	119	1777	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\27\03272307.D
Acq On : 27 Mar 2023 8:21
Sample : P2301250-055 (1000mL)
Misc : S35-01312301

Vial: 4
Operator: WA
Inst : GCMS-16

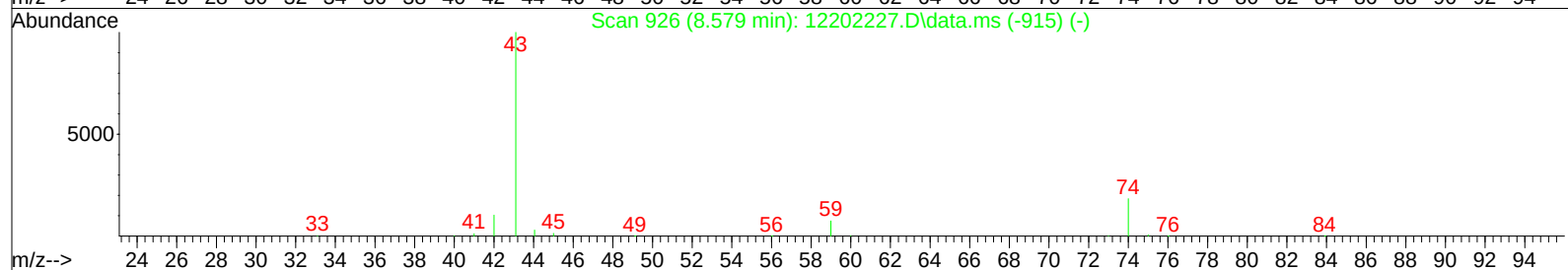
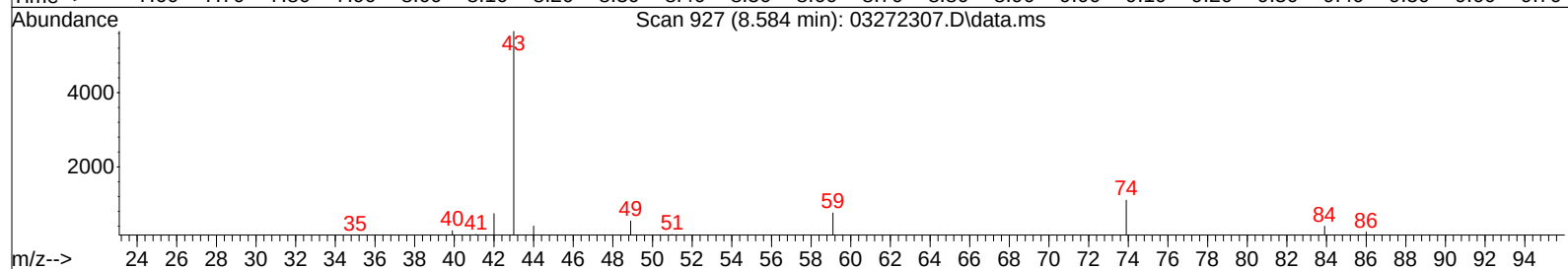
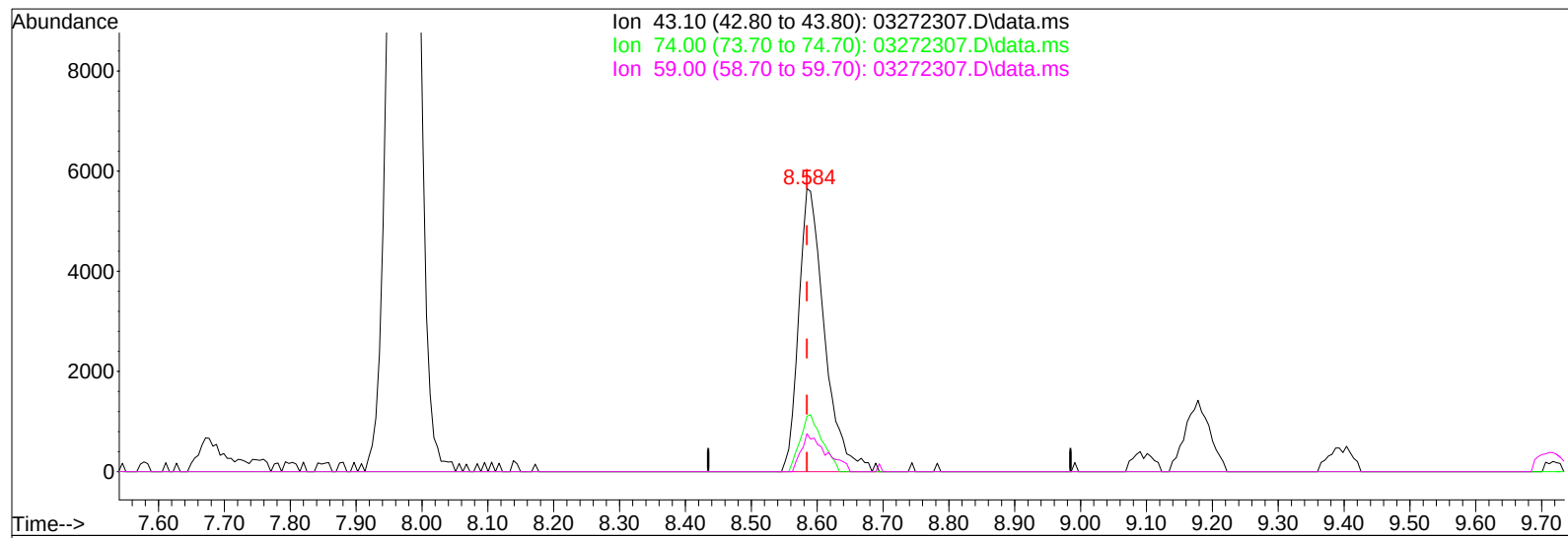
Quant Time: Mar 27 12:09:40 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



Data File : I:\MS16\DATA\2023_03\27\03272307.D
Acq On : 27 Mar 2023 8:21
Sample : P2301250-055 (1000mL)
Misc : S35-01312301

Vial: 4
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 12:03:58 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



TIC: 03272307.D\data.ms

(11) Methyl Acetate (T)

8.584min (-0.000) 0.30ng

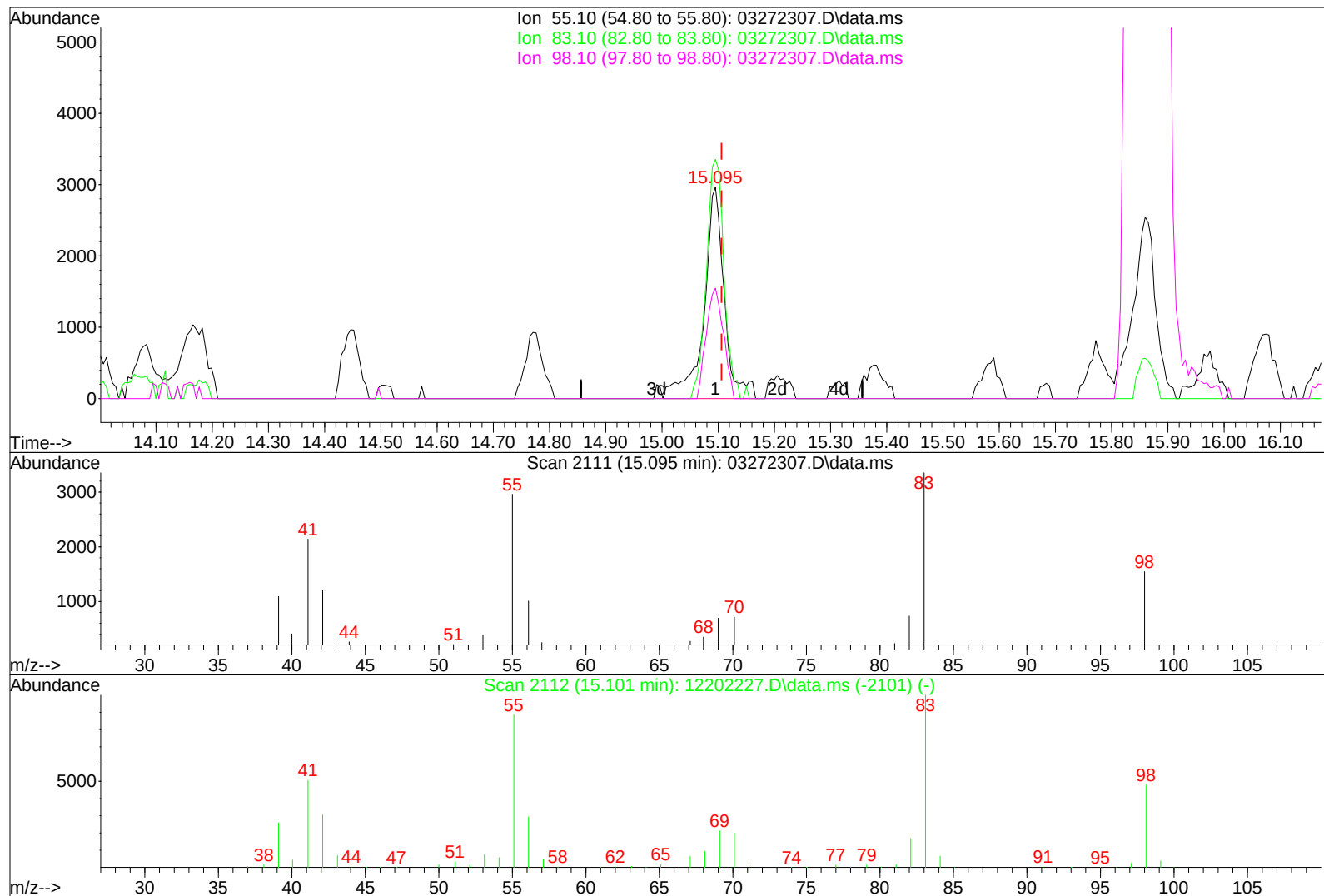
response 15456

Ion	Exp%	Act%
43.10	100	100
74.00	18.10	17.16
59.00	7.20	12.79#
0.00	0.00	0.00

Data File : I:\MS16\DATA\2023_03\27\03272307.D
Acq On : 27 Mar 2023 8:21
Sample : P2301250-055 (1000mL)
Misc : S35-01312301

Vial: 4
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 12:03:58 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



TIC: 03272307.D\data.ms

(20) Methyl Cyclohexane (T)

15.095min (-0.011) 0.22ng

response 7511

Ion	Exp%	Act%
55.10	100	100
83.10	111.60	97.30
98.10	53.80	43.78
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: OA-031523A

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-056

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: SSC00589

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.73 Final Pressure (psig): 3.67

Container Dilution Factor: 1.31

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.9	0.69	0.11	0.58	0.14	0.023	
74-87-3	Chloromethane	0.29	0.28	0.11	0.14	0.13	0.055	V
75-01-4	Vinyl Chloride	ND	0.14	0.075	ND	0.056	0.029	
74-83-9	Bromomethane	ND	0.28	0.097	ND	0.071	0.025	
75-00-3	Chloroethane	ND	0.28	0.086	ND	0.10	0.033	
67-64-1	Acetone	4.2	6.9	1.6	1.8	2.9	0.66	J
75-69-4	Trichlorofluoromethane	1.4	0.68	0.11	0.25	0.12	0.019	
75-35-4	1,1-Dichloroethene	ND	0.14	0.097	ND	0.036	0.024	
75-09-2	Methylene Chloride	0.38	0.69	0.20	0.11	0.20	0.057	J
76-13-1	Trichlorotrifluoroethane	0.52	0.71	0.10	0.068	0.092	0.013	J
75-15-0	Carbon Disulfide	0.32	1.4	0.21	0.10	0.45	0.067	J
156-60-5	trans-1,2-Dichloroethene	ND	0.14	0.097	ND	0.036	0.024	
75-34-3	1,1-Dichloroethane	ND	0.14	0.10	ND	0.036	0.025	
1634-04-4	Methyl tert-Butyl Ether	ND	0.71	0.083	ND	0.20	0.023	
78-93-3	2-Butanone (MEK)	0.78	1.4	0.14	0.27	0.46	0.049	J
156-59-2	cis-1,2-Dichloroethene	ND	0.14	0.098	ND	0.036	0.025	
67-66-3	Chloroform	ND	0.14	0.093	ND	0.030	0.019	
107-06-2	1,2-Dichloroethane	0.077	0.14	0.077	0.019	0.036	0.019	J
71-55-6	1,1,1-Trichloroethane	ND	0.14	0.086	ND	0.026	0.016	
71-43-2	Benzene	0.51	0.14	0.10	0.16	0.045	0.032	
56-23-5	Carbon Tetrachloride	0.47	0.14	0.097	0.075	0.023	0.015	
110-82-7	Cyclohexane	ND	1.4	0.20	ND	0.40	0.057	
78-87-5	1,2-Dichloropropane	ND	0.14	0.086	ND	0.031	0.019	
75-27-4	Bromodichloromethane	ND	0.14	0.10	ND	0.022	0.015	
79-01-6	Trichloroethene	ND	0.14	0.094	ND	0.027	0.018	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: OA-031523A

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-056

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: SSC00589

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.73 Final Pressure (psig): 3.67

Container Dilution Factor: 1.31

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.71	0.11	ND	0.16	0.024	
108-10-1	4-Methyl-2-pentanone	ND	1.4	0.096	ND	0.35	0.023	
10061-02-6	trans-1,3-Dichloropropene	ND	0.67	0.14	ND	0.15	0.032	
79-00-5	1,1,2-Trichloroethane	ND	0.14	0.071	ND	0.026	0.013	
108-88-3	Toluene	0.66	0.69	0.085	0.18	0.18	0.023	J
591-78-6	2-Hexanone	0.24	1.4	0.086	0.060	0.35	0.021	J
124-48-1	Dibromochloromethane	ND	0.14	0.092	ND	0.017	0.011	
106-93-4	1,2-Dibromoethane	ND	0.14	0.081	ND	0.019	0.011	
127-18-4	Tetrachloroethene	ND	0.14	0.090	ND	0.021	0.013	
108-90-7	Chlorobenzene	ND	0.69	0.093	ND	0.15	0.020	
100-41-4	Ethylbenzene	0.10	0.69	0.098	0.024	0.16	0.023	J
179601-23-1	m,p-Xylenes	0.24	1.4	0.18	0.056	0.33	0.042	J
75-25-2	Bromoform	ND	0.71	0.14	ND	0.068	0.014	
100-42-5	Styrene	ND	0.69	0.11	ND	0.16	0.026	
95-47-6	o-Xylene	ND	0.69	0.10	ND	0.16	0.023	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	0.097	ND	0.021	0.014	
98-82-8	Cumene	ND	0.71	0.10	ND	0.14	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.69	0.10	ND	0.12	0.017	
106-46-7	1,4-Dichlorobenzene	ND	0.69	0.11	ND	0.12	0.018	
95-50-1	1,2-Dichlorobenzene	ND	0.71	0.10	ND	0.12	0.017	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.4	0.13	ND	0.15	0.014	
120-82-1	1,2,4-Trichlorobenzene	ND	1.4	0.17	ND	0.19	0.023	
79-20-9	Methyl Acetate	ND	0.66	0.31	ND	0.22	0.10	X
108-87-2	Methylcyclohexane	ND	0.66	0.34	ND	0.16	0.085	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS16\DATA\2023_03\27\03272308.D
 Acq On : 27 Mar 2023 8:55
 Sample : P2301250-056 (1000mL)
 Misc : S35-01312301

Vial: 3
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 11:52:23 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:TO15B.M

3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	205158	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	948064	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.72	54	200004	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	364746	13.369	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	106.96%	
57) Toluene-d8 (SS2)	15.86	98	1076227	12.291	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	98.32%	
73) Bromofluorobenzene (SS3)	19.10	174	314588	11.519	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	92.16%	

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	4.34	85	67145	2.190	ng	99
4) Chloromethane	4.64	50	6462	0.225	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	1665	0.097	ng	89
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.33	54	196	N.D.		
8) Bromomethane	5.77	94	187	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.47	45	37004	1.874	ng	97
11) Acetonitrile	6.75	41	3528	0.071	ng	75
12) Acrolein	6.95	56	1743	0.125	ng	95
13) Acetone	7.15	58	47999	3.179	ng	93
14) Trichlorofluoromethane	7.39	101	29814	1.054	ng	98
15) 2-Propanol (Isopropanol)	7.68	45	12988	0.247	ng	97
16) Acrylonitrile	7.92	53	172	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.		
19) Methylene Chloride	8.57	84	4850	0.291	ng	95
20) 3-Chloro-1-propene (Al...	8.66	41	185	N.D.		
21) Trichlorotrifluoroethane	9.00	151	5570	0.395	ng	100
22) Carbon Disulfide	8.84	76	14361	0.241	ng	98
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	10.62	72	6544	0.598	ng	99
28) cis-1,2-Dichloroethene	11.11	61	497	N.D.		
29) Diisopropyl Ether	11.44	87	153	N.D.		
30) Ethyl Acetate	11.43	61	12645	1.766	ng	97
31) n-Hexane	11.41	57	4630	0.129	ng	96
32) Chloroform	11.44	83	1774	0.065	ng	98
34) Tetrahydrofuran (THF)	11.94	72	185	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	12.26	62	1315	0.059	ng	92
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.02	78	26025	0.390	ng	99
42) Carbon Tetrachloride	13.18	117	7814	0.360	ng	98
43) Cyclohexane	13.31	84	1084	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	13.87	63	114	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	14.12	130	456	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	14.18	57	8588	0.095	ng	72
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS16\DATA\2023_03\27\03272308.D
 Acq On : 27 Mar 2023 8:55
 Sample : P2301250-056 (1000mL)
 Misc : S35-01312301

Vial: 3
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 11:52:23 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

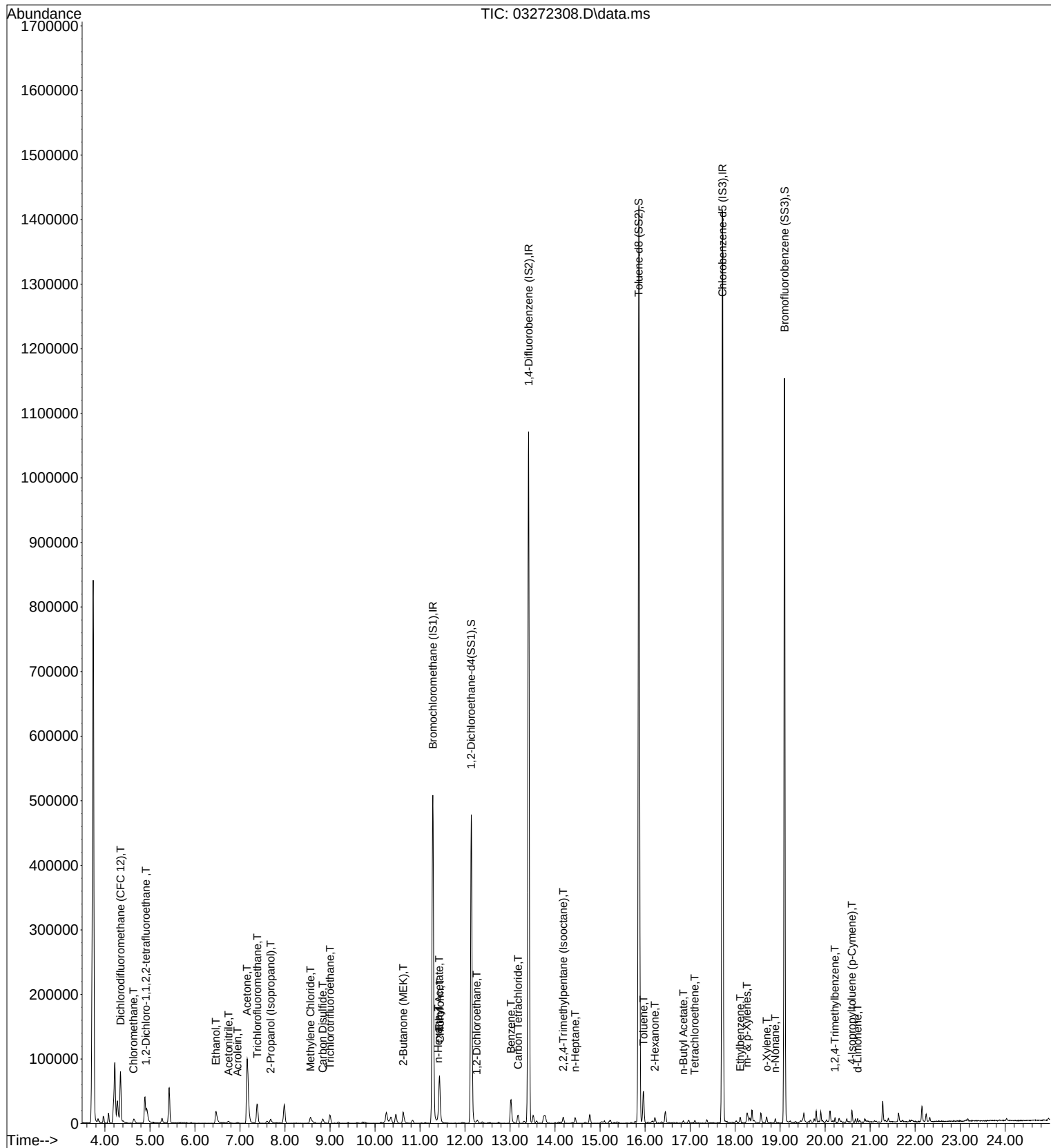
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.45	71	2183	0.111	ng	92
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	15.04	58	615	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.96	91	38869	0.507	ng	97
59) 2-Hexanone	16.22	43	7525	0.186	ng	86
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.85	43	3162	0.068	ng	94
63) n-Octane	16.96	57	841	N.D.		
64) Tetrachloroethene	17.10	166	1186	0.061	ng	96
65) Chlorobenzene	17.76	112	180	N.D.		
66) Ethylbenzene	18.11	91	6839	0.079	ng	100
67) m- & p-Xylenes	18.26	91	12601	0.184	ng	99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.60	104	580	N.D.		
70) o-Xylene	18.70	91	5085	0.075	ng	95
71) n-Nonane	18.89	43	2663	0.055	ng	92
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	19.21	105	846	N.D.		
75) alpha-Pinene	19.57	93	514	N.D.		
76) n-Propylbenzene	19.67	91	1933	N.D.		
77) 3-Ethyltoluene	20.21	105	3740	No Calib	#	
78) 4-Ethyltoluene	19.80	105	1882	N.D.		
79) 1,3,5-Trimethylbenzene	19.86	105	919	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.21	105	3740	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.21	105	3740	0.054	ng	82
83) n-Decane	20.10	58	224	No Calib	#	
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	20.41	146	252	N.D.		
86) 1,4-Dichlorobenzene	20.41	146	252	N.D.		
87) sec-Butylbenzene	20.46	105	251	N.D.		
88) 4-Isopropyltoluene (p-...	20.59	119	9276	0.092	ng	97
89) 1,2,3-Trimethylbenzene	20.21	105	3740	No Calib	#	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	20.72	68	1385	0.070	ng	98
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	21.28	58	436	No Calib	#	
94) 1,2,4-Trichlorobenzene	22.23	180	246	N.D.		
95) Naphthalene	22.33	128	2128	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	18.19	55	404	No Calib	#	
99) tert-Butylbenzene	20.23	119	602	N.D.		
100) n-Butylbenzene	20.96	91	1162	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\27\03272308.D
Acq On : 27 Mar 2023 8:55
Sample : P2301250-056 (1000mL)
Misc : S35-01312301

Vial: 3
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 11:52:23 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:TO15B.M



Data File : I:\MS16\DATA\2023_03\27\03272308.D
 Acq On : 27 Mar 2023 8:55
 Sample : P2301250-056 (1000mL)
 Misc : S35-01312301

Vial: 3
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 11:52:23 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	205158	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	948064	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.72	54	200004	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	364746	13.369	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	106.96%	
57) Toluene-d8 (SS2)	15.86	98	1076227	12.291	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	98.32%	
73) Bromofluorobenzene (SS3)	19.10	174	314588	11.519	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	92.16%	

Target Compounds

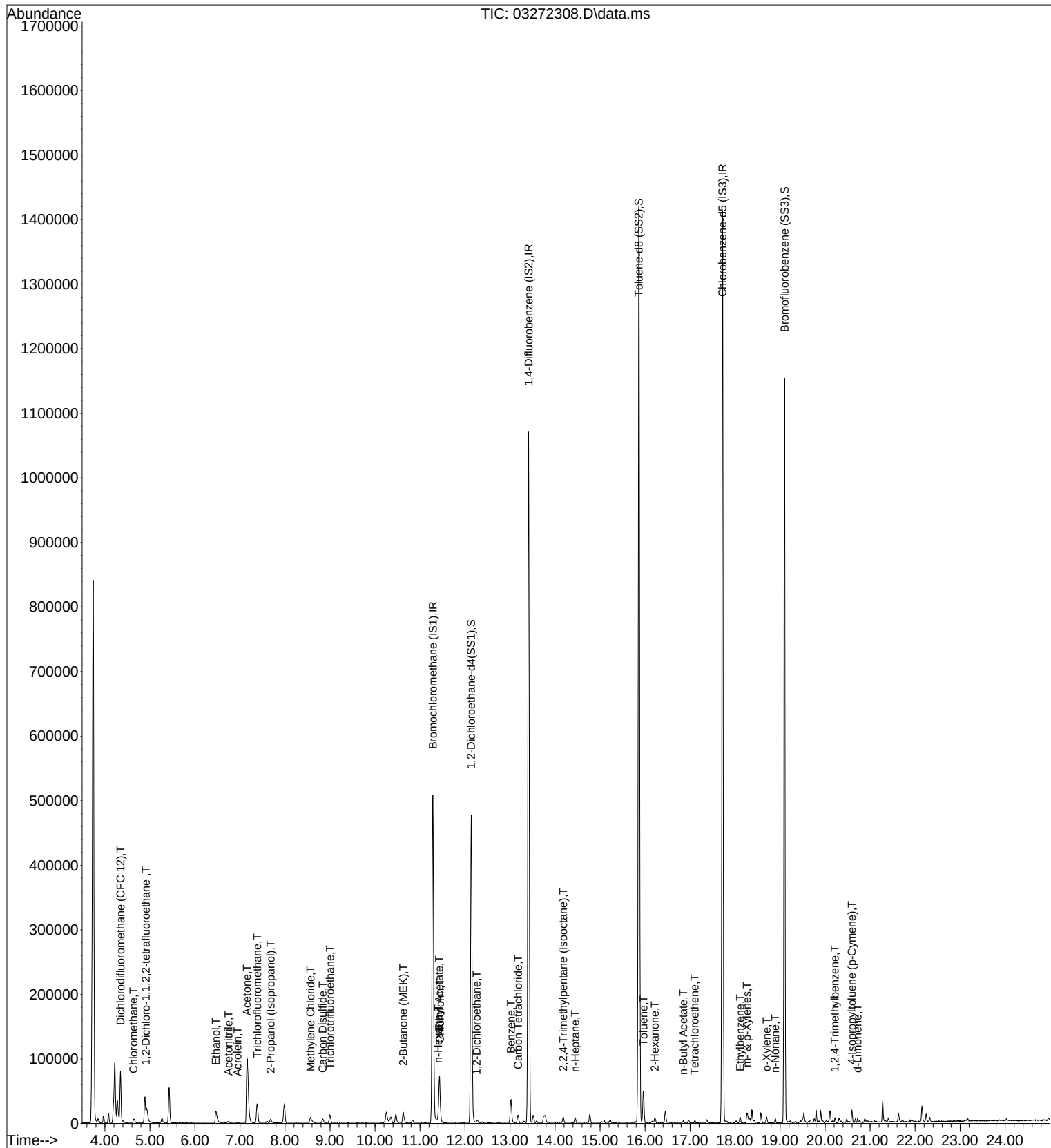
					Qvalue
3) Dichlorodifluoromethan...	4.34	85	67145	2.190 ng	99
4) Chloromethane	4.64	50	6462	0.225 ng	98
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	1665	0.097 ng	89
10) Ethanol	6.47	45	37004	1.874 ng	97
11) Acetonitrile	6.75	41	3528	0.071 ng	75
12) Acrolein	6.95	56	1743	0.125 ng	95
13) Acetone	7.15	58	47999	3.179 ng	93
14) Trichlorofluoromethane	7.39	101	29814	1.054 ng	98
15) 2-Propanol (Isopropanol)	7.68	45	12988	0.247 ng	97
19) Methylene Chloride	8.57	84	4850	0.291 ng	95
21) Trichlorotrifluoroethane	9.00	151	5570	0.395 ng	100
22) Carbon Disulfide	8.84	76	14361	0.241 ng	98
27) 2-Butanone (MEK)	10.62	72	6544	0.598 ng	99
30) Ethyl Acetate	11.43	61	12645	1.766 ng	97
31) n-Hexane	11.41	57	4630	0.129 ng	96
32) Chloroform	11.44	83	1774	0.065 ng	98
36) 1,2-Dichloroethane	12.26	62	1315	0.059 ng	92
41) Benzene	13.02	78	26025	0.390 ng	99
42) Carbon Tetrachloride	13.18	117	7814	0.360 ng	98
49) 2,2,4-Trimethylpentane...	14.18	57	8588	0.095 ng	72
51) n-Heptane	14.45	71	2183	0.111 ng	92
58) Toluene	15.96	91	38869	0.507 ng	97
59) 2-Hexanone	16.22	43	7525	0.186 ng	86
62) n-Butyl Acetate	16.85	43	3162	0.068 ng	94
64) Tetrachloroethene	17.10	166	1186	0.061 ng	96
66) Ethylbenzene	18.11	91	6839	0.079 ng	100
67) m- & p-Xylenes	18.26	91	12601	0.184 ng	99
70) o-Xylene	18.70	91	5085	0.075 ng	95
71) n-Nonane	18.89	43	2663	0.055 ng	92
82) 1,2,4-Trimethylbenzene	20.21	105	3740	0.054 ng	82
88) 4-Isopropyltoluene (p-...	20.59	119	9276	0.092 ng	97
91) d-Limonene	20.72	68	1385	0.070 ng	98

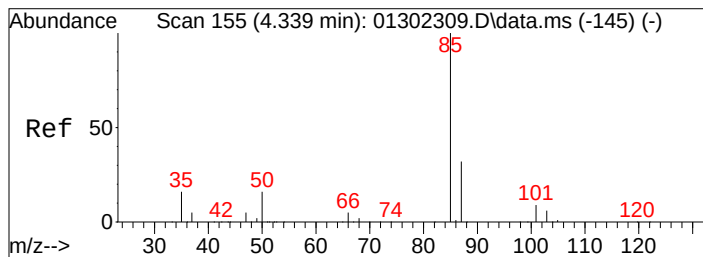
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS16\DATA\2023_03\27\03272308.D
Acq On : 27 Mar 2023 8:55
Sample : P2301250-056 (1000mL)
Misc : S35-01312301

Vial: 3
Operator: WA
Inst : GCMS-16

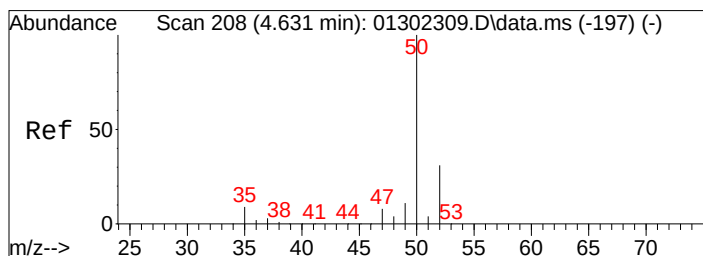
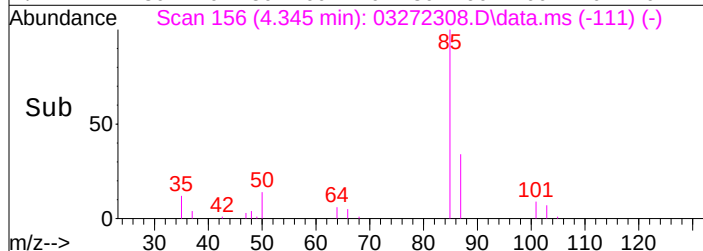
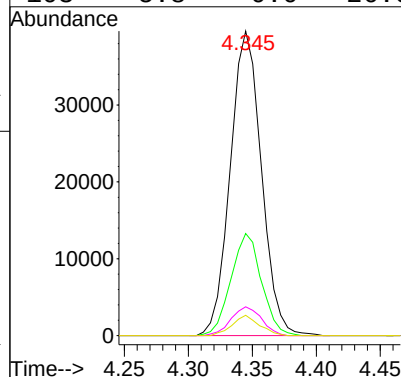
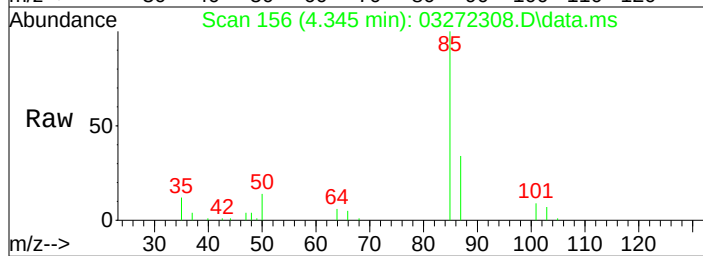
Quant Time: Mar 27 11:52:23 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:TO15B.M





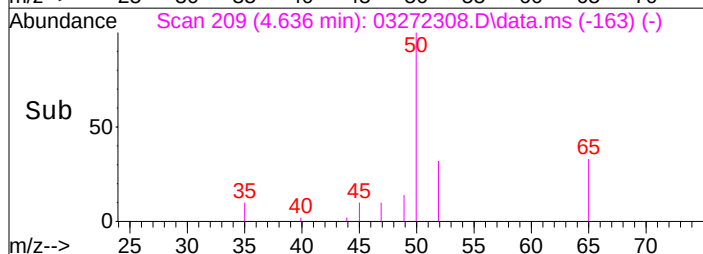
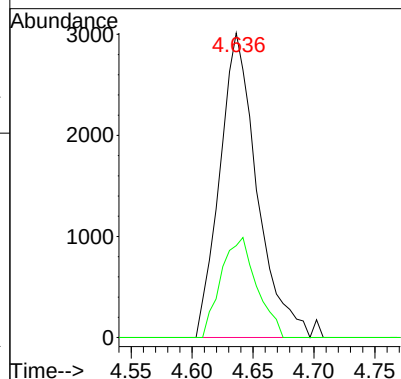
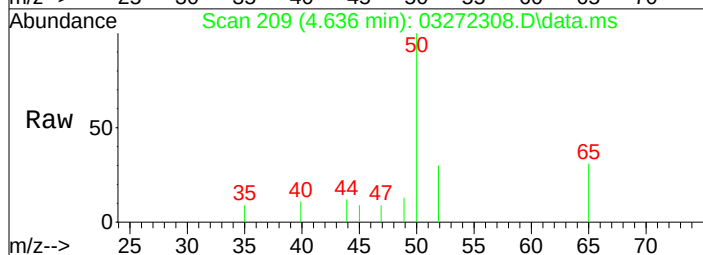
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 2.19 ng
 RT: 4.34 min Scan# 156
 Delta R.T. -0.005 min
 Lab File: 03272308.D
 Acq: 27 Mar 2023 8:55

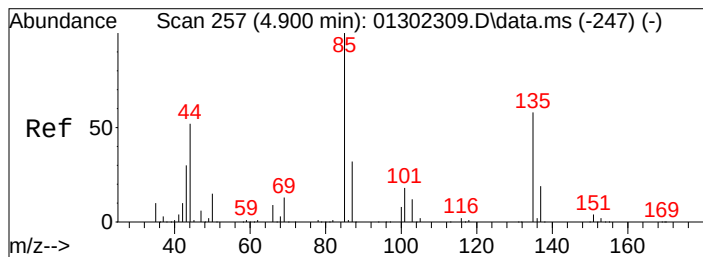
Tgt Ion:	85	Resp:	67145
Ion Ratio		Lower	Upper
85	100		
87	32.8	12.1	52.1
101	9.3	0.0	29.3
103	5.8	0.0	26.0



#4
 Chloromethane
 Concen: 0.23 ng
 RT: 4.64 min Scan# 209
 Delta R.T. 0.000 min
 Lab File: 03272308.D
 Acq: 27 Mar 2023 8:55

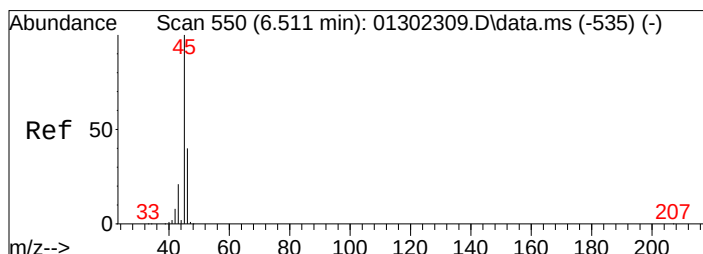
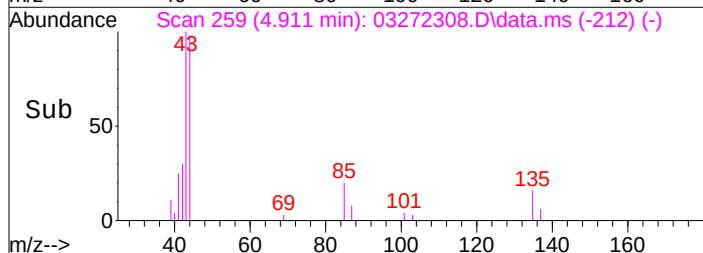
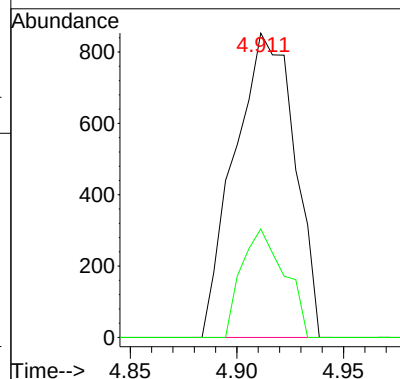
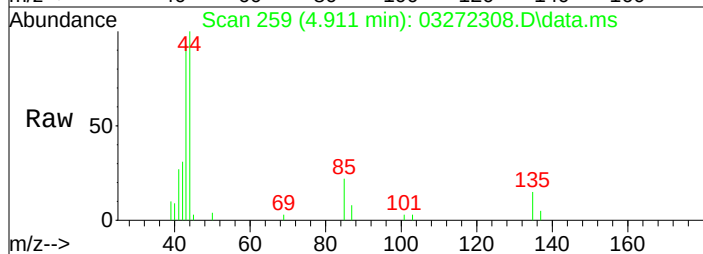
Tgt Ion:	50	Resp:	6462
Ion Ratio		Lower	Upper
50	100		
52	31.2	12.2	52.2





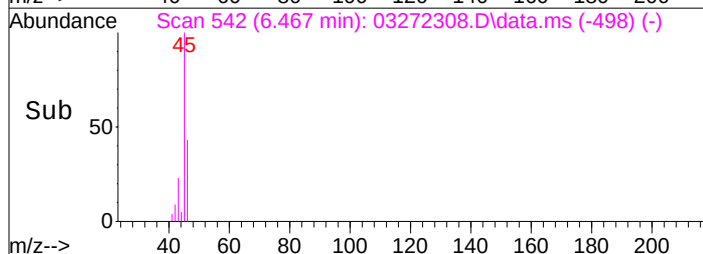
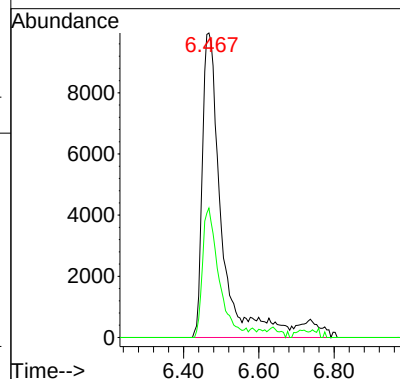
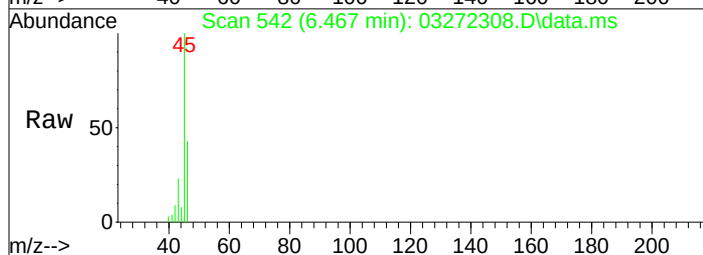
#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.10 ng
 RT: 4.91 min Scan# 259
 Delta R.T. 0.006 min
 Lab File: 03272308.D
 Acq: 27 Mar 2023 8:55

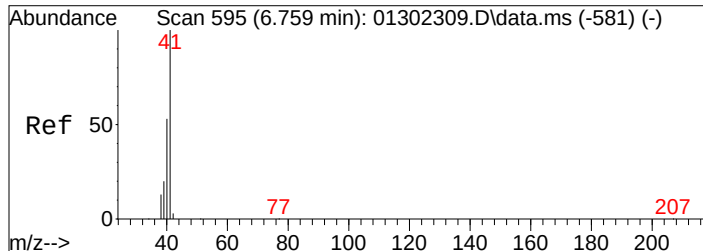
Tgt Ion: 135 Resp: 1665
 Ion Ratio Lower Upper
 135 100
 137 25.7 12.0 52.0



#10
 Ethanol
 Concen: 1.87 ng
 RT: 6.47 min Scan# 542
 Delta R.T. -0.011 min
 Lab File: 03272308.D
 Acq: 27 Mar 2023 8:55

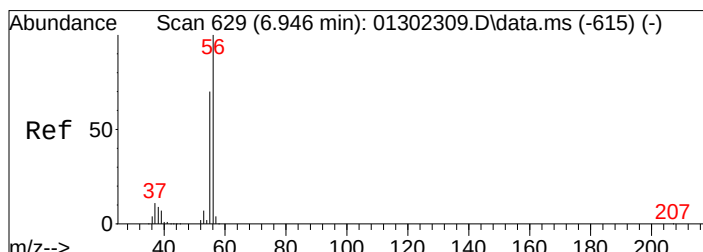
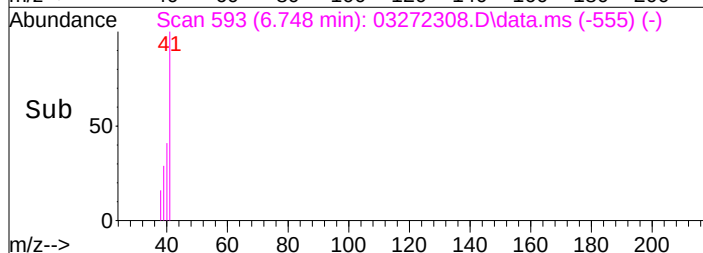
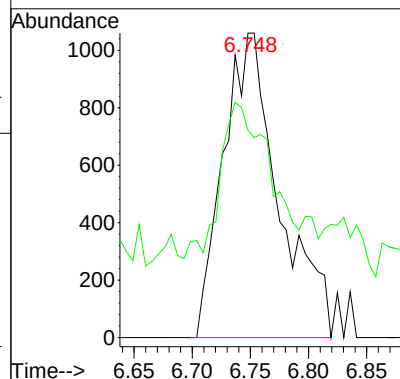
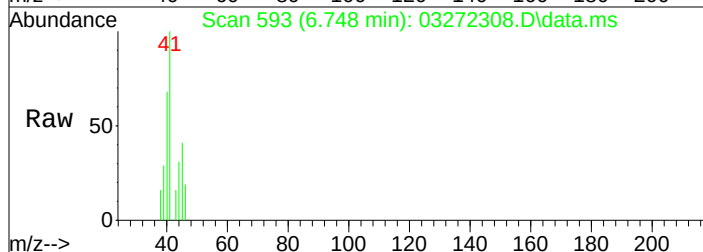
Tgt Ion: 45 Resp: 37004
 Ion Ratio Lower Upper
 45 100
 46 38.5 20.5 60.5





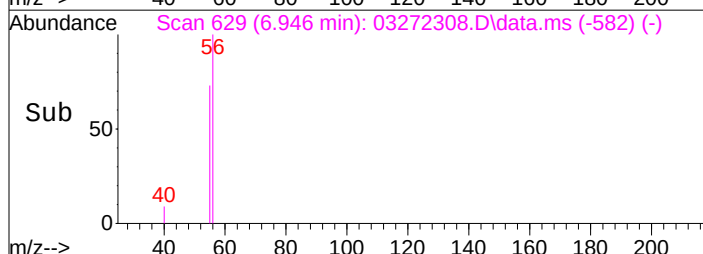
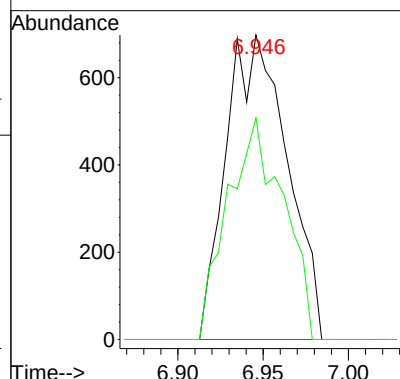
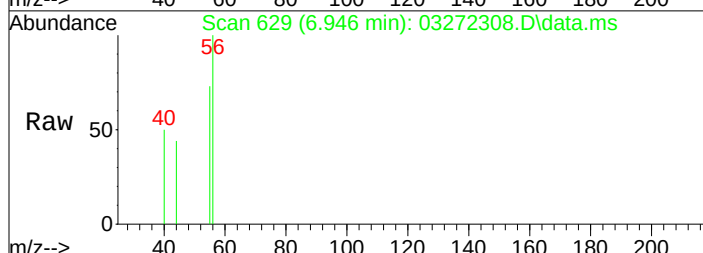
#11
Acetonitrile
Concen: 0.07 ng
RT: 6.75 min Scan# 593
Delta R.T. 0.011 min
Lab File: 03272308.D
Acq: 27 Mar 2023 8:55

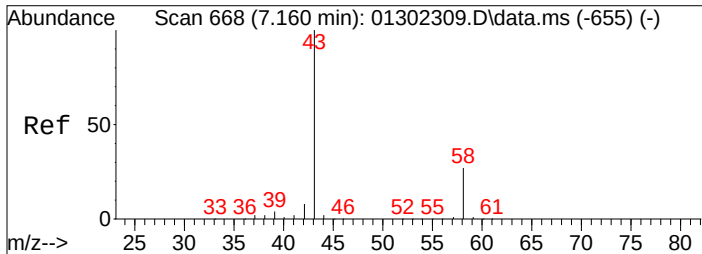
Tgt Ion: 41 Resp: 3528
Ion Ratio Lower Upper
41 100
40 70.0 32.4 72.4



#12
Acrolein
Concen: 0.12 ng
RT: 6.95 min Scan# 629
Delta R.T. 0.011 min
Lab File: 03272308.D
Acq: 27 Mar 2023 8:55

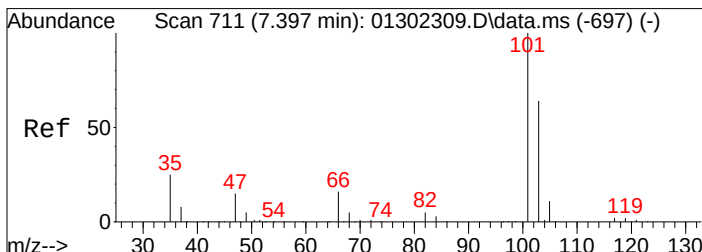
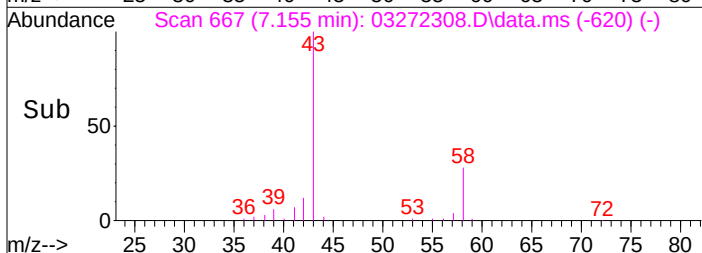
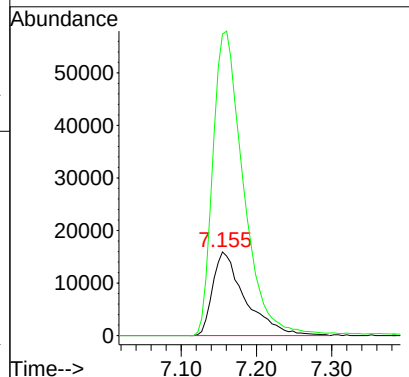
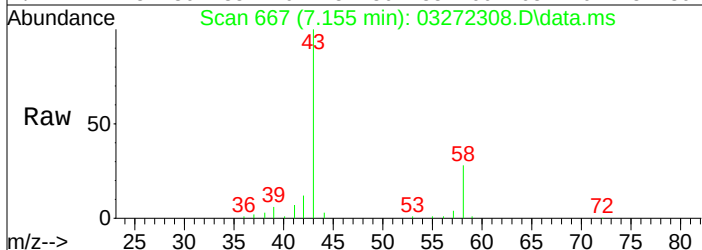
Tgt Ion: 56 Resp: 1743
Ion Ratio Lower Upper
56 100
55 66.2 49.9 89.9





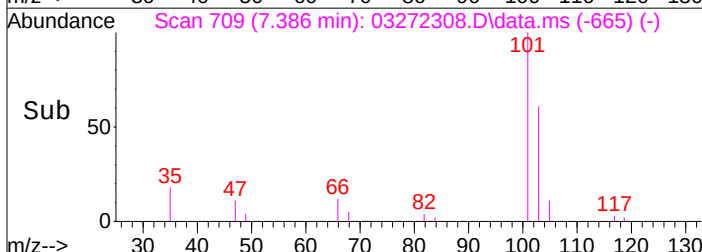
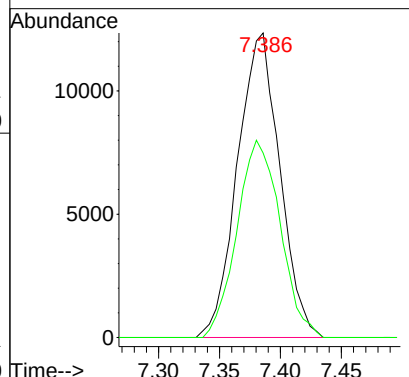
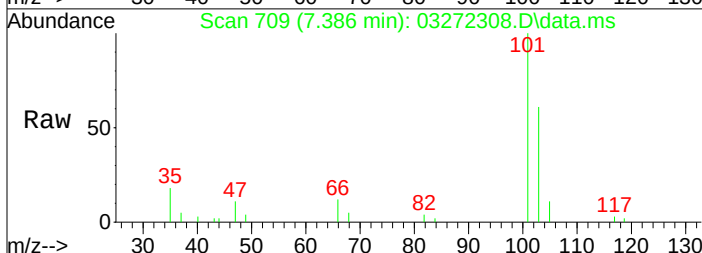
#13
 Acetone
 Concen: 3.18 ng
 RT: 7.15 min Scan# 667
 Delta R.T. 0.011 min
 Lab File: 03272308.D
 Acq: 27 Mar 2023 8:55

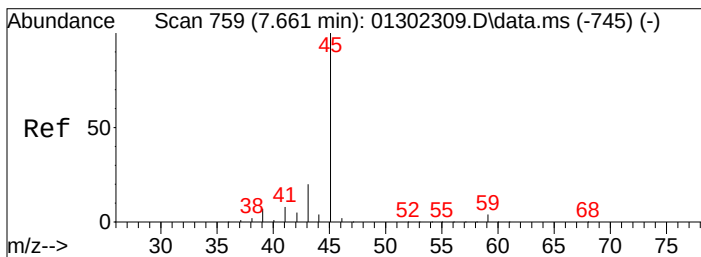
Tgt Ion	58	43	Resp	47999	Lower	Upper
Ion Ratio	100	342.9			298.5	358.5



#14
 Trichlorofluoromethane
 Concen: 1.05 ng
 RT: 7.39 min Scan# 709
 Delta R.T. -0.011 min
 Lab File: 03272308.D
 Acq: 27 Mar 2023 8:55

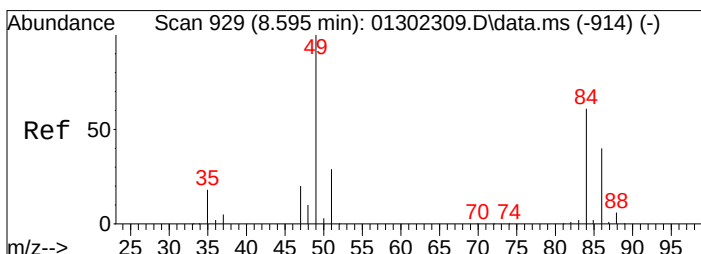
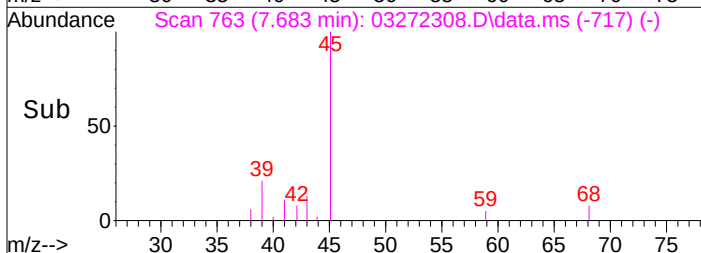
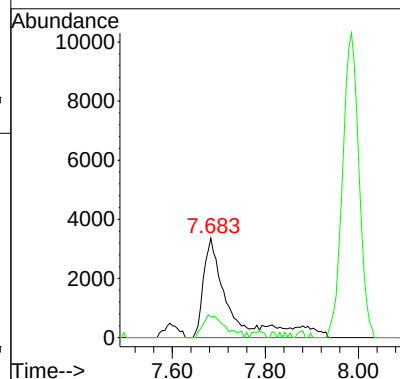
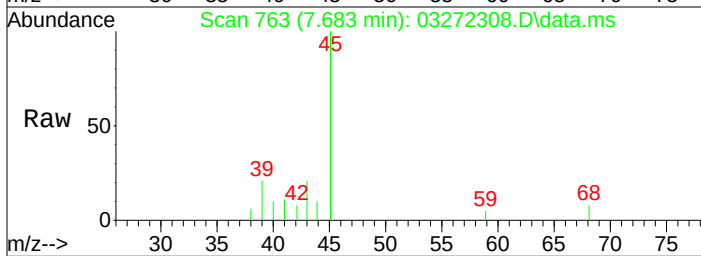
Tgt Ion	101	103	Resp	29814	Lower	Upper
Ion Ratio	100	66.3			44.8	84.8





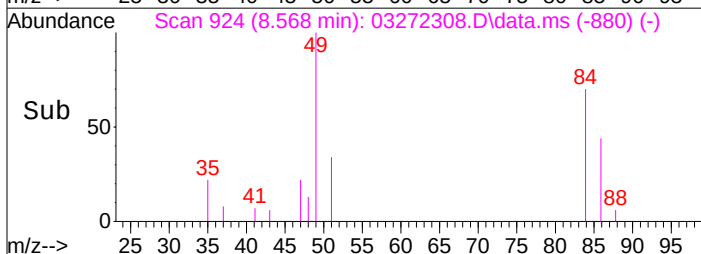
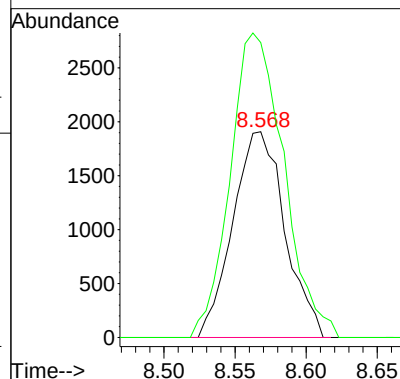
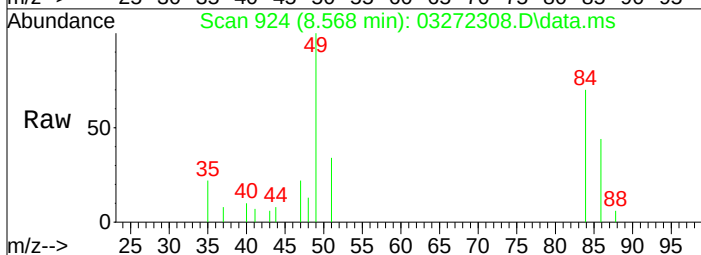
#15
2-Propanol (Isopropanol)
Concen: 0.25 ng
RT: 7.68 min Scan# 763
Delta R.T. 0.003 min
Lab File: 03272308.D
Acq: 27 Mar 2023 8:55

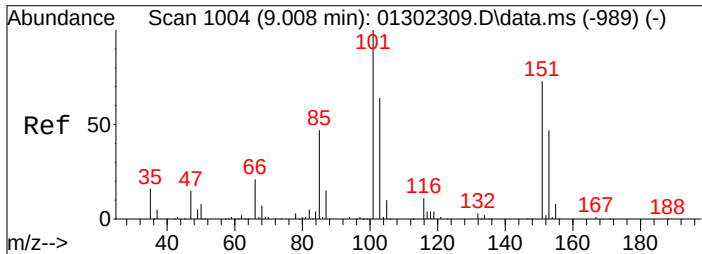
Tgt Ion: 45 Resp: 12988
Ion Ratio Lower Upper
45 100
43 19.1 0.0 37.9



#19
Methylene Chloride
Concen: 0.29 ng
RT: 8.57 min Scan# 924
Delta R.T. -0.011 min
Lab File: 03272308.D
Acq: 27 Mar 2023 8:55

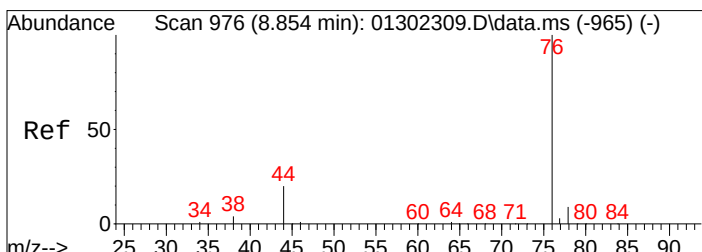
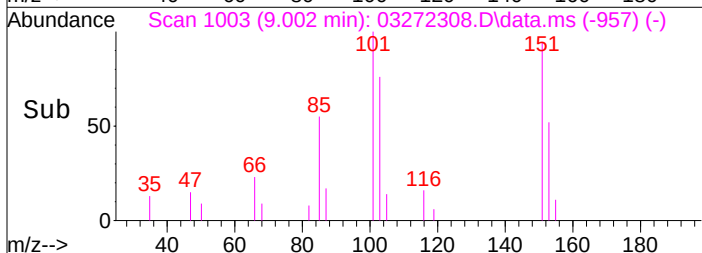
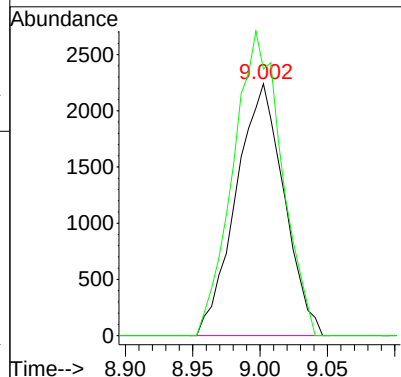
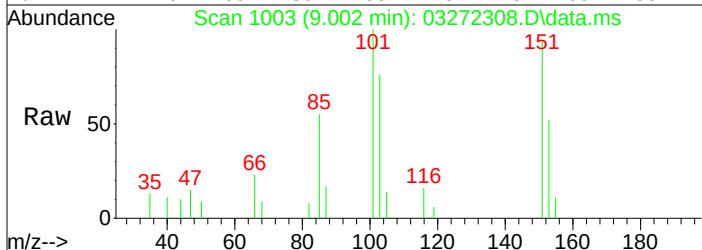
Tgt Ion: 84 Resp: 4850
Ion Ratio Lower Upper
84 100
49 152.9 135.0 185.0





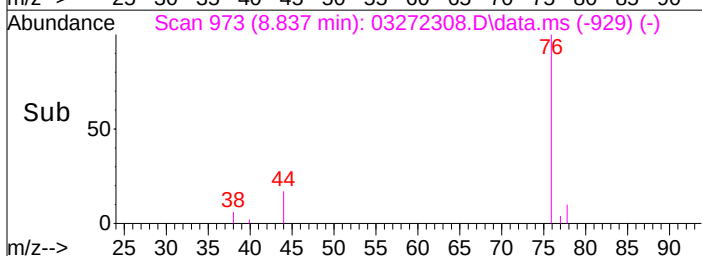
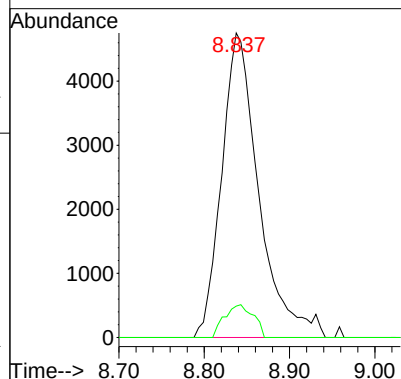
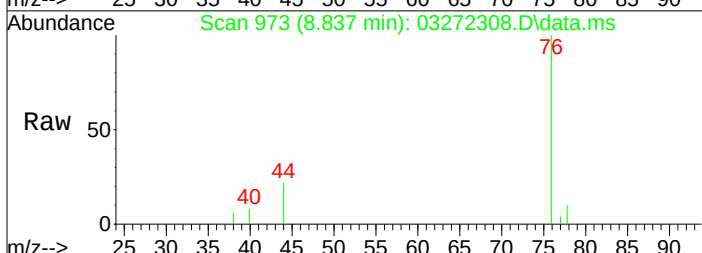
#21
 Trichlorotrifluoroethane
 Concen: 0.40 ng
 RT: 9.00 min Scan# 1003
 Delta R.T. 0.000 min
 Lab File: 03272308.D
 Acq: 27 Mar 2023 8:55

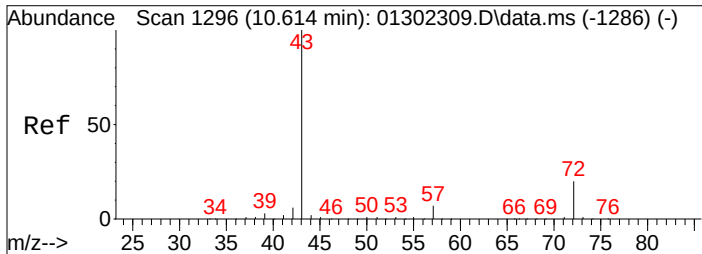
Tgt Ion	Ratio	Lower	Upper
151	100		
101	121.6	101.5	141.5



#22
 Carbon Disulfide
 Concen: 0.24 ng
 RT: 8.84 min Scan# 973
 Delta R.T. -0.011 min
 Lab File: 03272308.D
 Acq: 27 Mar 2023 8:55

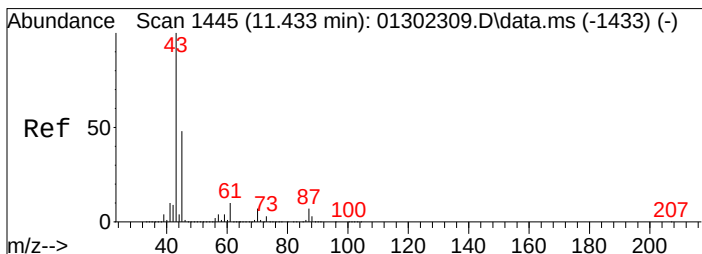
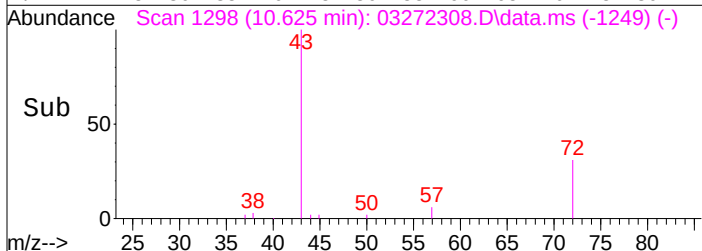
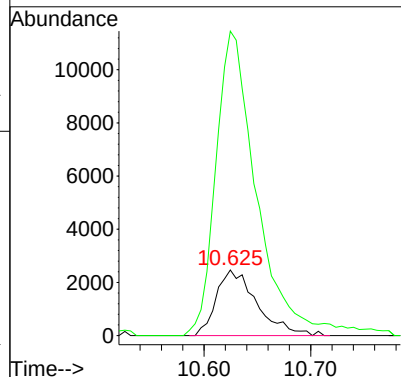
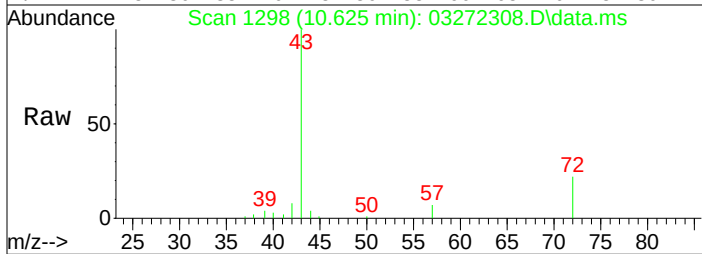
Tgt Ion	Ratio	Lower	Upper
76	100		
78	8.3	0.0	29.1





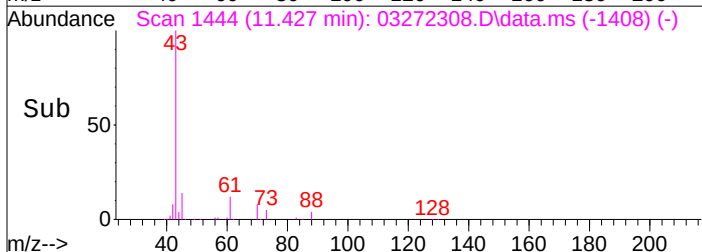
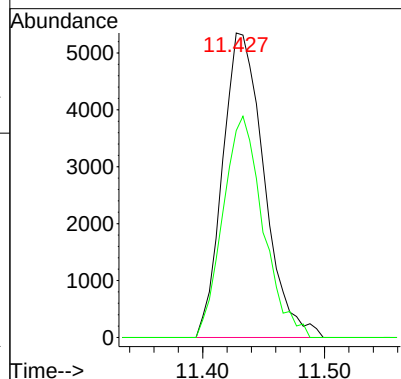
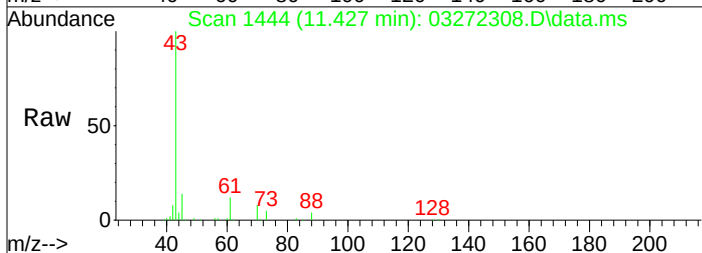
#27
 2-Butanone (MEK)
 Concen: 0.60 ng
 RT: 10.62 min Scan# 1298
 Delta R.T. 0.017 min
 Lab File: 03272308.D
 Acq: 27 Mar 2023 8:55

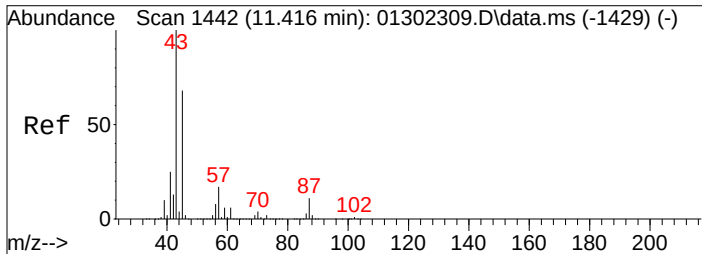
Tgt Ion: 72 Resp: 6544
 Ion Ratio Lower Upper
 72 100
 43 471.4 449.4 489.4



#30
 Ethyl Acetate
 Concen: 1.77 ng
 RT: 11.43 min Scan# 1444
 Delta R.T. 0.000 min
 Lab File: 03272308.D
 Acq: 27 Mar 2023 8:55

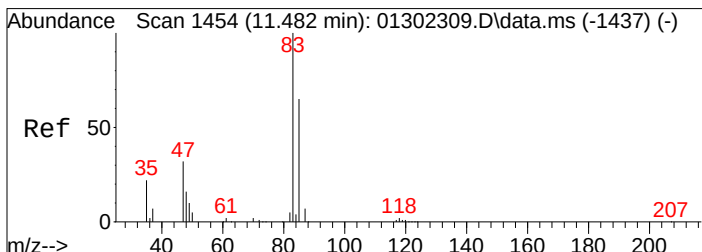
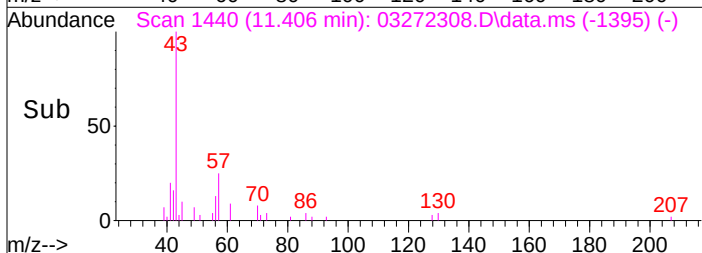
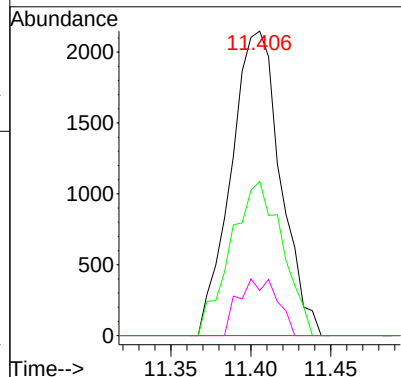
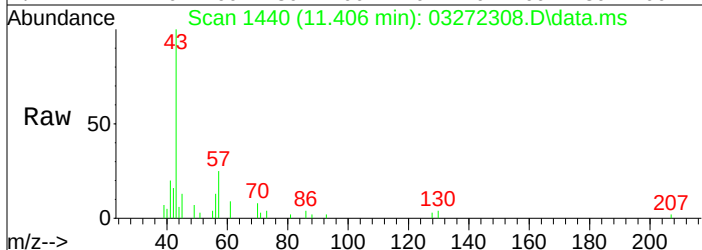
Tgt Ion: 61 Resp: 12645
 Ion Ratio Lower Upper
 61 100
 70 70.2 52.8 92.8





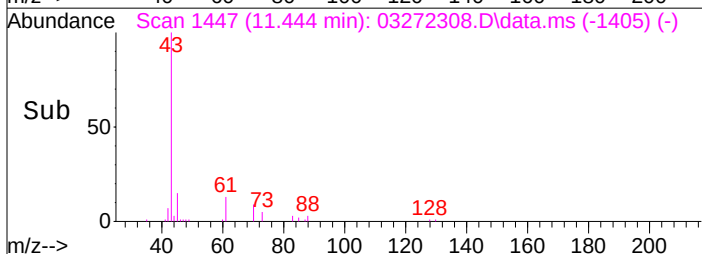
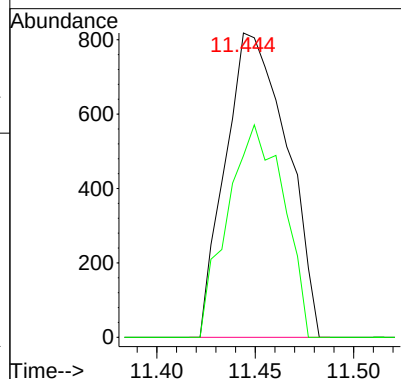
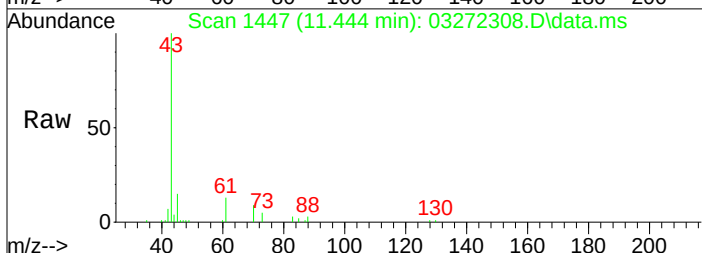
#31
n-Hexane
Concen: 0.13 ng
RT: 11.41 min Scan# 1440
Delta R.T. -0.005 min
Lab File: 03272308.D
Acq: 27 Mar 2023 8:55

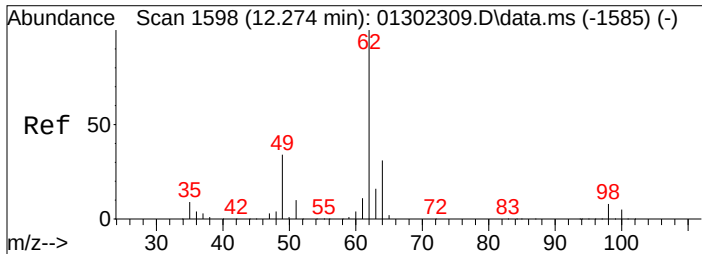
Tgt Ion:	57	Resp:	4630
Ion Ratio		Lower	Upper
57	100		
56	52.9	39.9	59.9
86	14.7	12.3	18.5



#32
Chloroform
Concen: 0.06 ng
RT: 11.44 min Scan# 1447
Delta R.T. -0.022 min
Lab File: 03272308.D
Acq: 27 Mar 2023 8:55

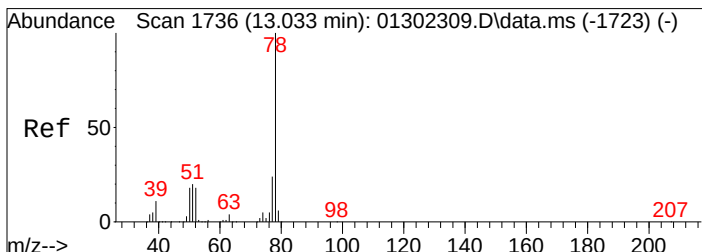
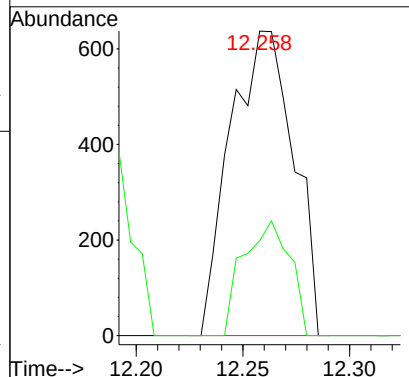
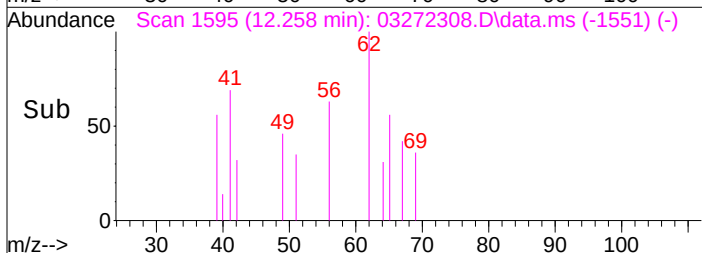
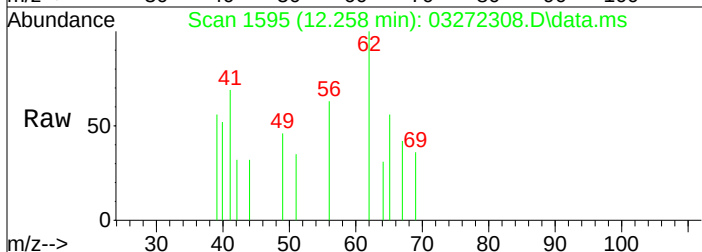
Tgt Ion:	83	Resp:	1774
Ion Ratio		Lower	Upper
83	100		
85	63.9	45.5	85.5





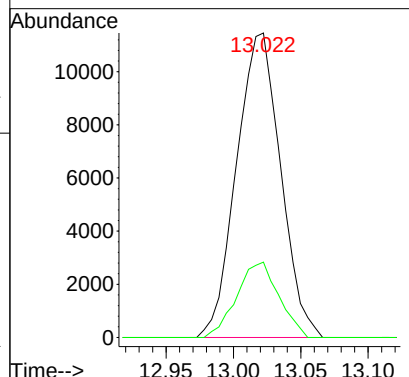
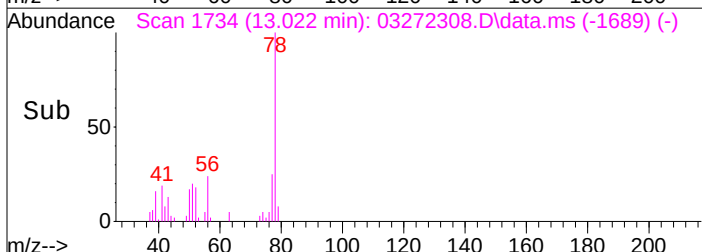
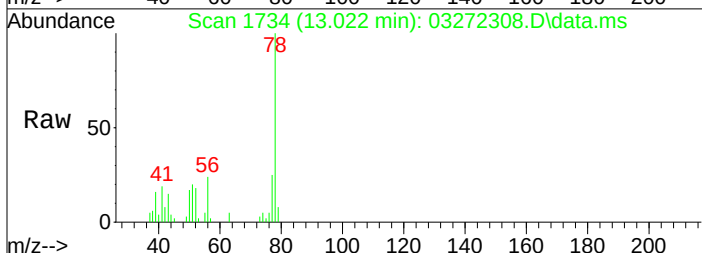
#36
 1,2-Dichloroethane
 Concen: 0.06 ng
 RT: 12.26 min Scan# 1595
 Delta R.T. -0.011 min
 Lab File: 03272308.D
 Acq: 27 Mar 2023 8:55

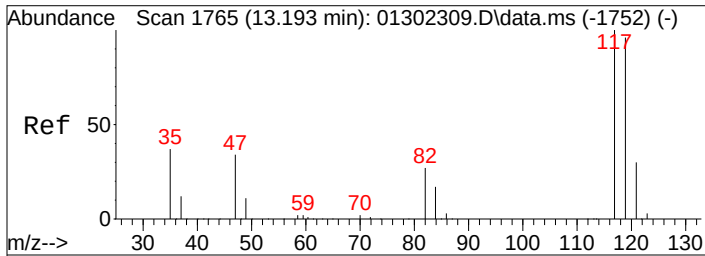
Tgt Ion: 62 Resp: 1315
 Ion Ratio Lower Upper
 62 100
 64 27.8 12.5 52.5



#41
 Benzene
 Concen: 0.39 ng
 RT: 13.02 min Scan# 1734
 Delta R.T. -0.005 min
 Lab File: 03272308.D
 Acq: 27 Mar 2023 8:55

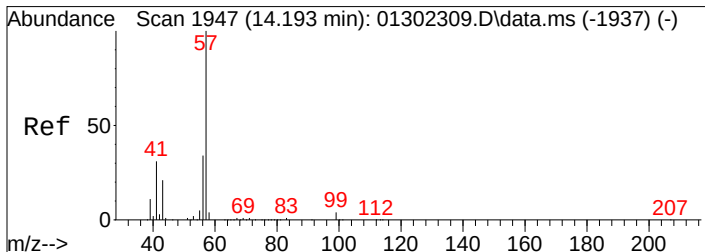
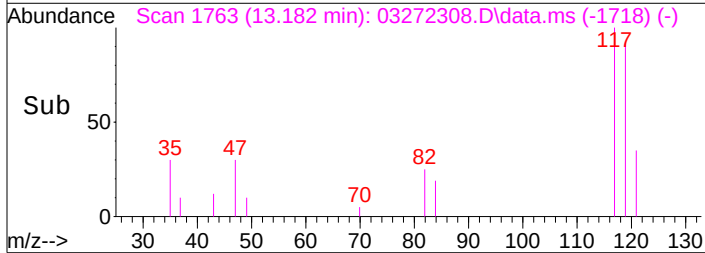
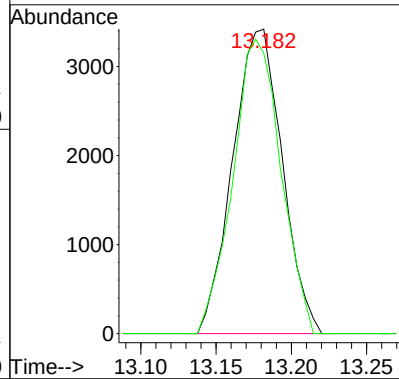
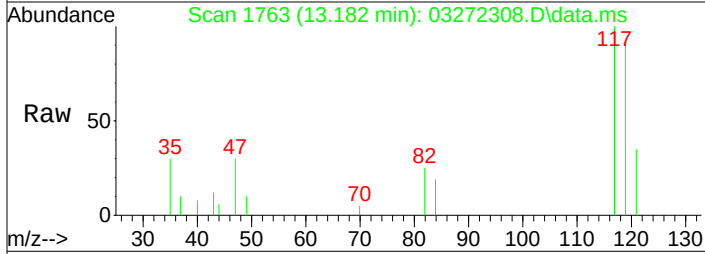
Tgt Ion: 78 Resp: 26025
 Ion Ratio Lower Upper
 78 100
 77 23.6 3.3 43.3





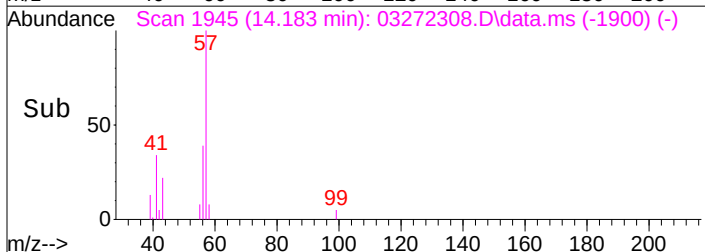
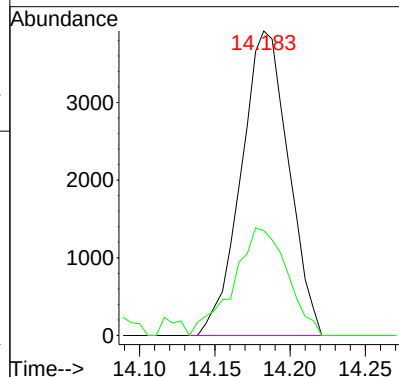
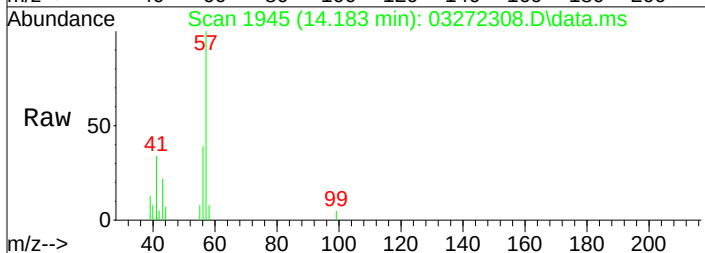
#42
Carbon Tetrachloride
Concen: 0.36 ng
RT: 13.18 min Scan# 1763
Delta R.T. -0.005 min
Lab File: 03272308.D
Acq: 27 Mar 2023 8:55

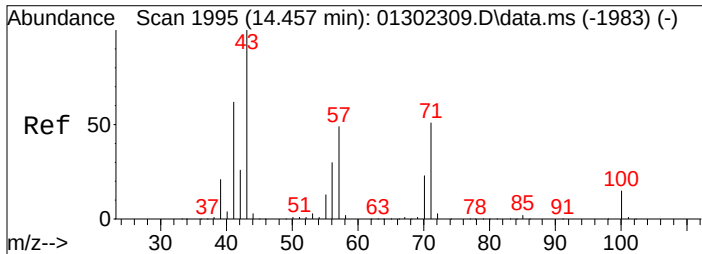
Tgt Ion: 117 Resp: 7814
Ion Ratio Lower Upper
117 100
119 93.8 76.2 116.2



#49
2,2,4-Trimethylpentane (Isooctane)
Concen: 0.10 ng
RT: 14.18 min Scan# 1945
Delta R.T. -0.005 min
Lab File: 03272308.D
Acq: 27 Mar 2023 8:55

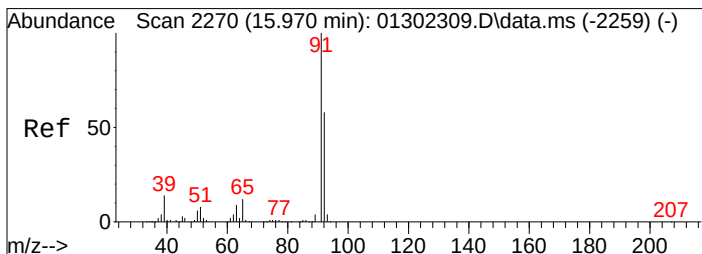
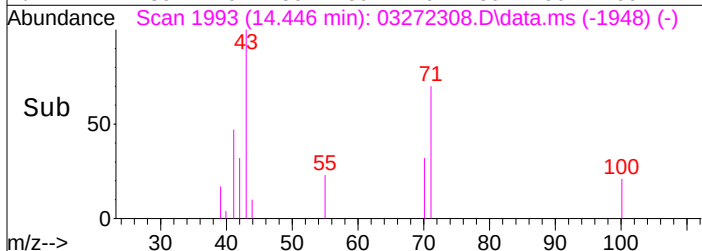
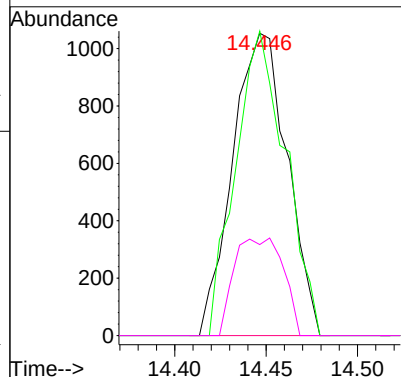
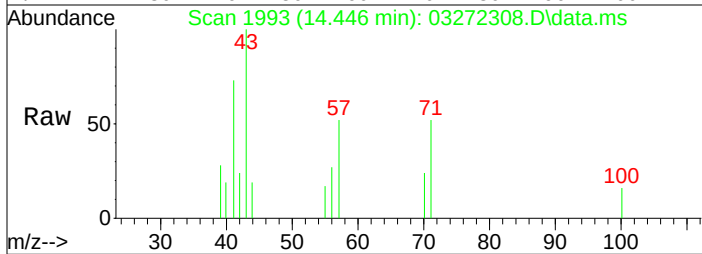
Tgt Ion: 57 Resp: 8588
Ion Ratio Lower Upper
57 100
41 39.8 5.8 45.8





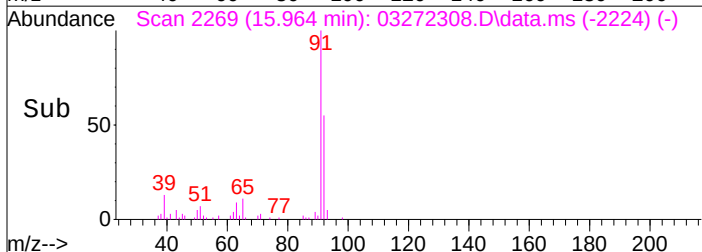
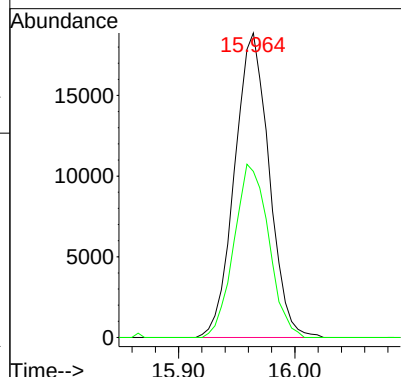
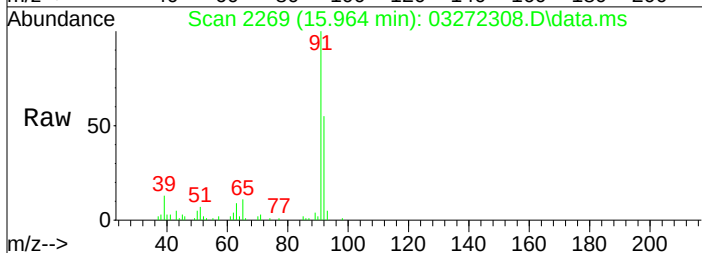
#51
n-Heptane
Concen: 0.11 ng
RT: 14.45 min Scan# 1993
Delta R.T. -0.005 min
Lab File: 03272308.D
Acq: 27 Mar 2023 8:55

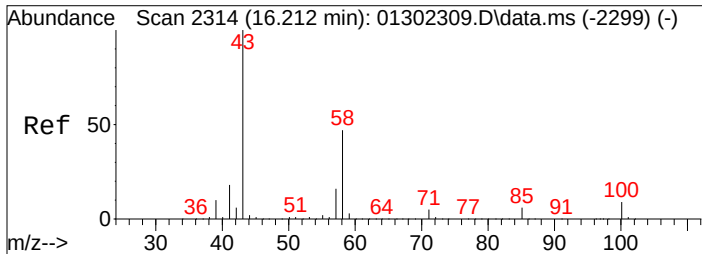
Tgt Ion: 71 Resp: 2183
Ion Ratio Lower Upper
71 100
57 92.2 81.4 121.4
100 29.0 11.8 51.8



#58
Toluene
Concen: 0.51 ng
RT: 15.96 min Scan# 2269
Delta R.T. -0.005 min
Lab File: 03272308.D
Acq: 27 Mar 2023 8:55

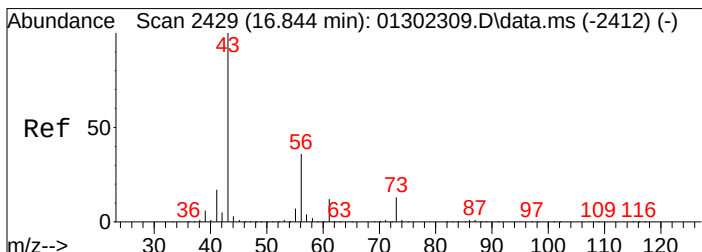
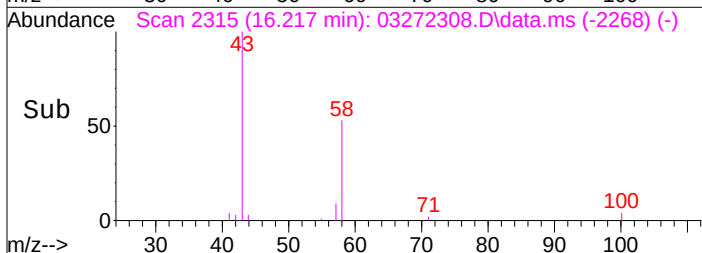
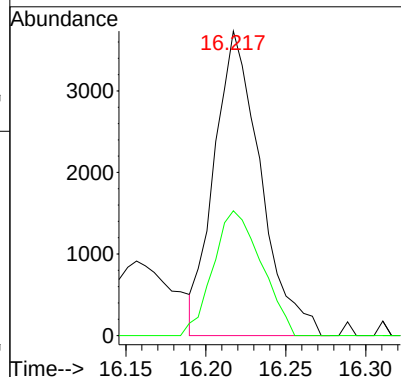
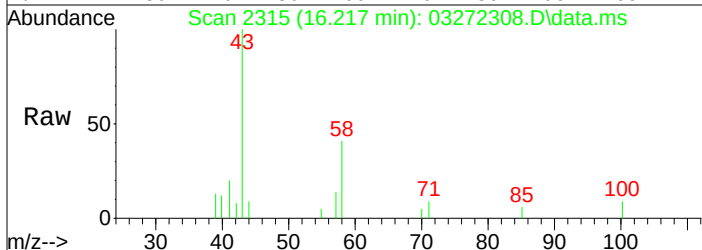
Tgt Ion: 91 Resp: 38869
Ion Ratio Lower Upper
91 100
92 57.3 39.8 79.8





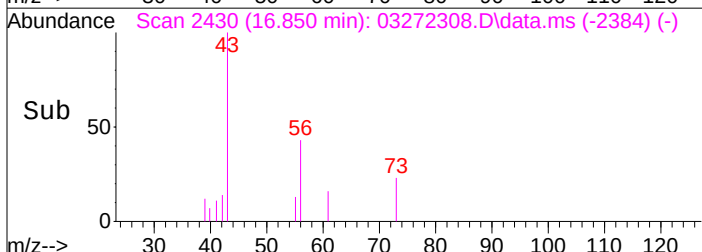
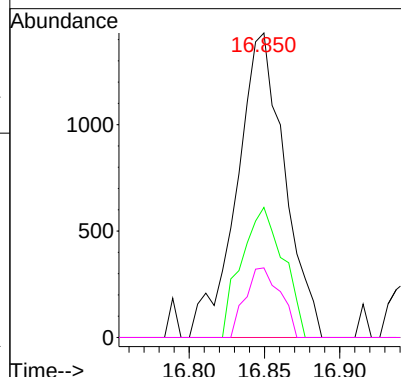
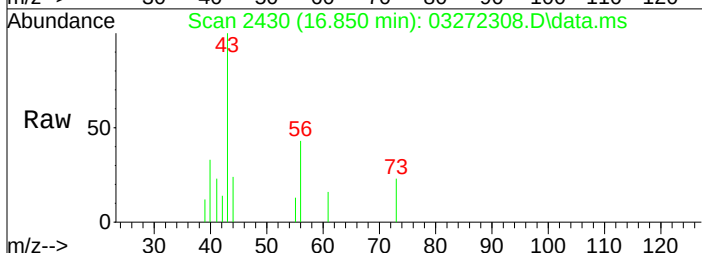
#59
2-Hexanone
Concen: 0.19 ng
RT: 16.22 min Scan# 2315
Delta R.T. 0.006 min
Lab File: 03272308.D
Acq: 27 Mar 2023 8:55

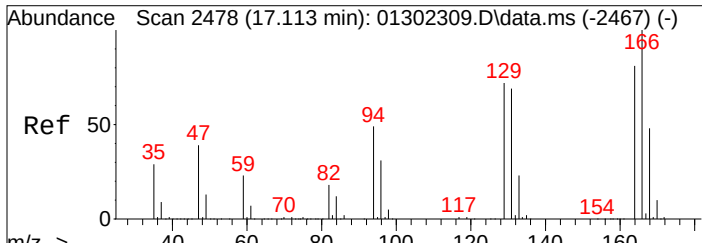
Tgt Ion: 43 Resp: 7525
Ion Ratio Lower Upper
43 100
58 42.6 32.3 72.3



#62
n-Butyl Acetate
Concen: 0.07 ng
RT: 16.85 min Scan# 2430
Delta R.T. 0.006 min
Lab File: 03272308.D
Acq: 27 Mar 2023 8:55

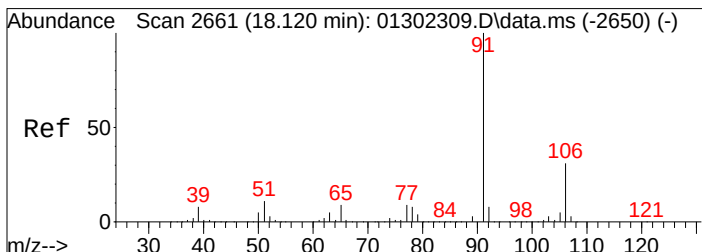
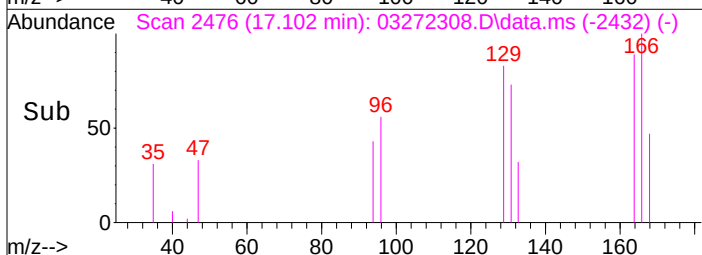
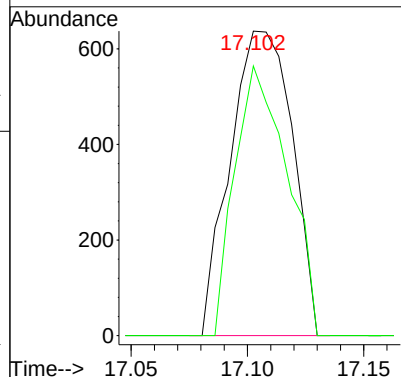
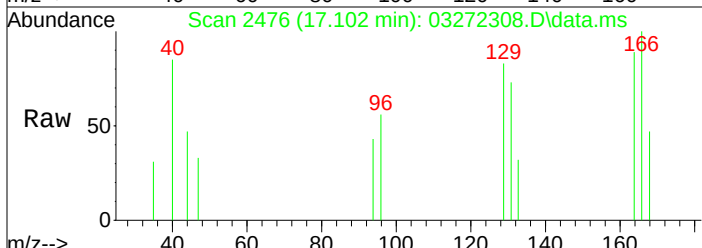
Tgt Ion: 43 Resp: 3162
Ion Ratio Lower Upper
43 100
56 37.4 21.0 61.0
73 16.7 0.0 34.3





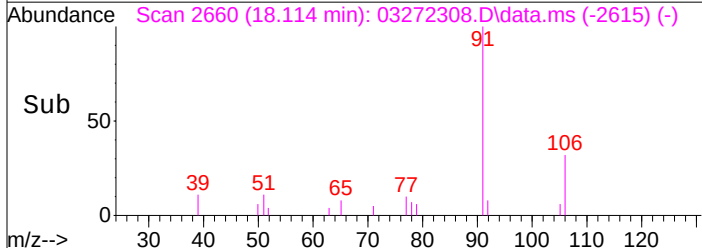
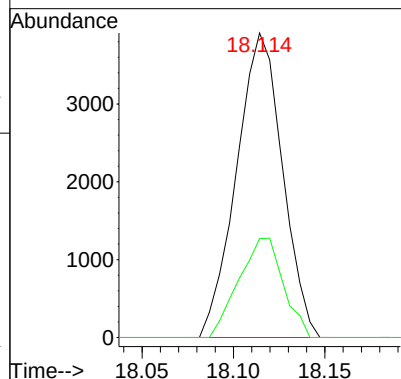
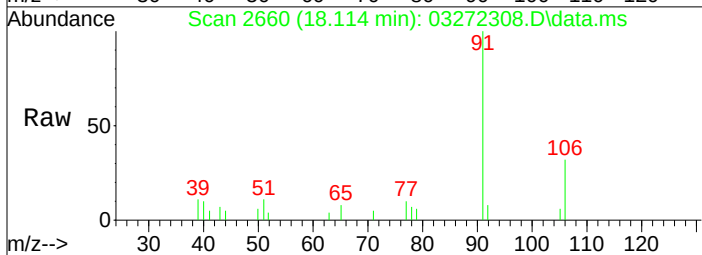
#64
 Tetrachloroethene
 Concen: 0.06 ng
 RT: 17.10 min Scan# 2476
 Delta R.T. -0.011 min
 Lab File: 03272308.D
 Acq: 27 Mar 2023 8:55

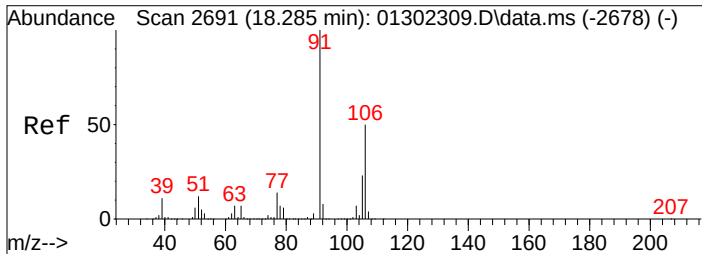
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	1186		
164	75.0	58.7		98.7



#66
 Ethylbenzene
 Concen: 0.08 ng
 RT: 18.11 min Scan# 2660
 Delta R.T. -0.005 min
 Lab File: 03272308.D
 Acq: 27 Mar 2023 8:55

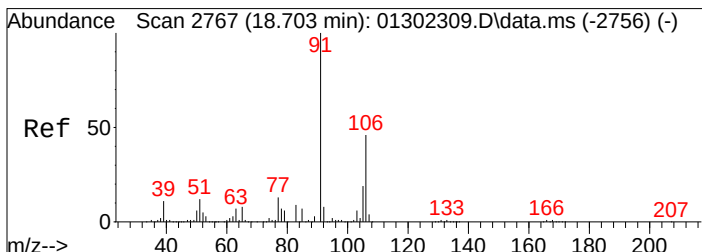
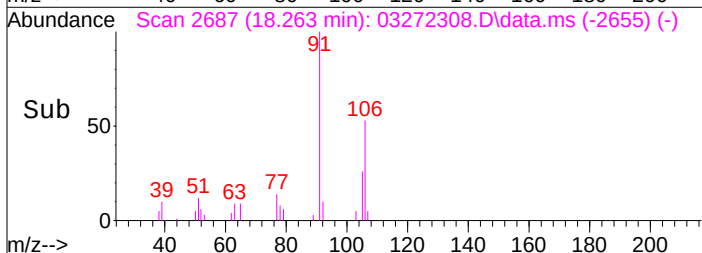
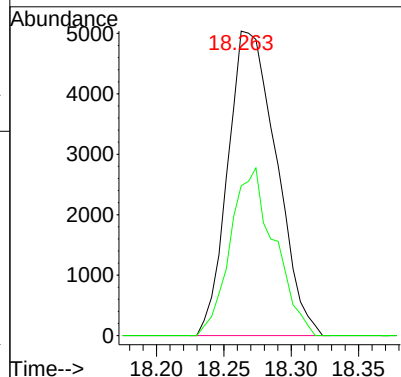
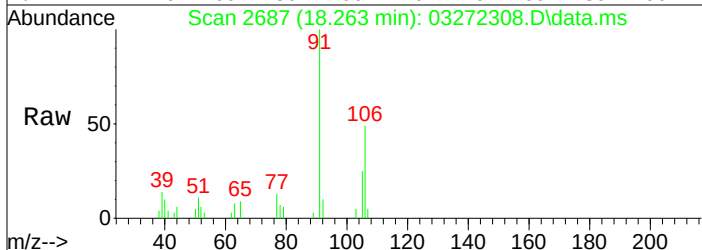
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	6839		
106	31.5	11.5		51.5





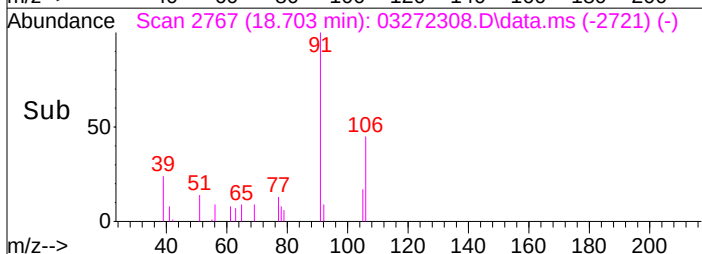
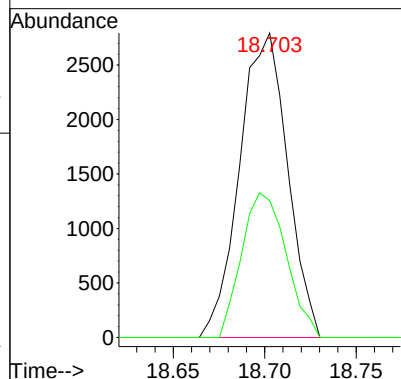
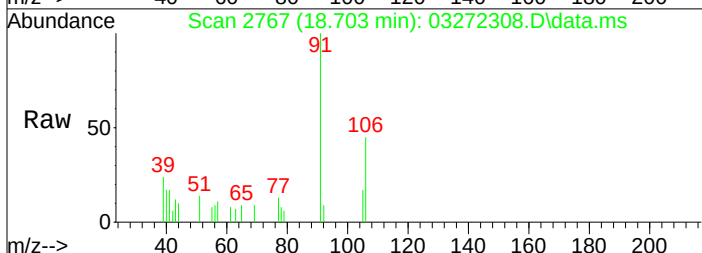
#67
 m- & p-Xylenes
 Concen: 0.18 ng
 RT: 18.26 min Scan# 2687
 Delta R.T. -0.022 min
 Lab File: 03272308.D
 Acq: 27 Mar 2023 8:55

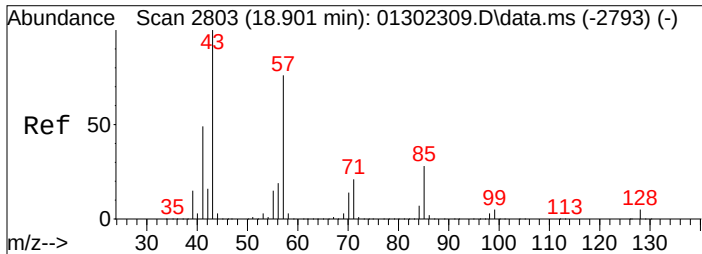
Tgt Ion:	91	Resp:	12601
Ion Ratio	Lower	Upper	
91	100		
106	50.2	29.2	69.2



#70
 o-Xylene
 Concen: 0.08 ng
 RT: 18.70 min Scan# 2767
 Delta R.T. 0.000 min
 Lab File: 03272308.D
 Acq: 27 Mar 2023 8:55

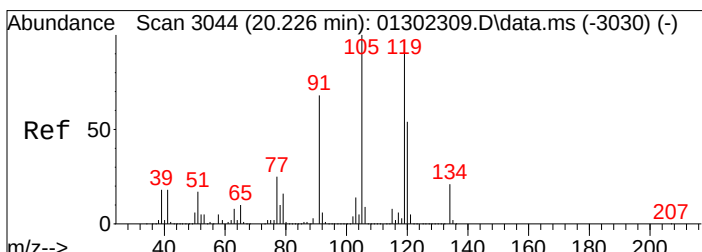
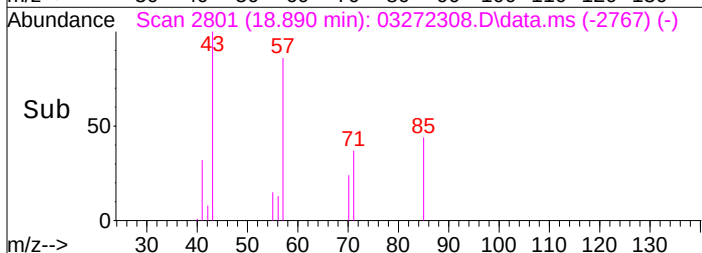
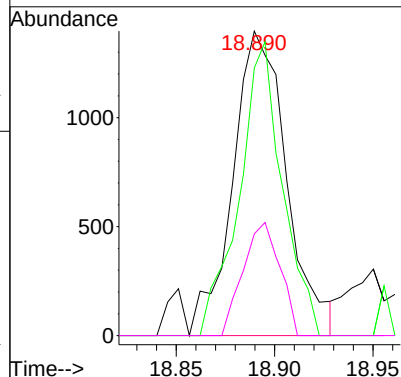
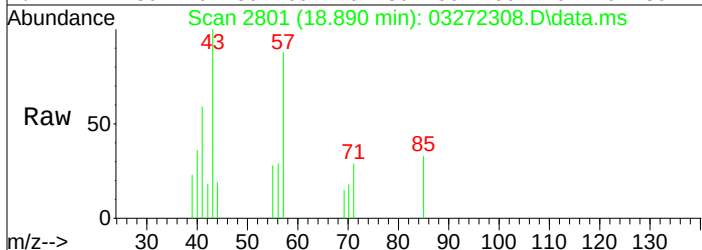
Tgt Ion:	91	Resp:	5085
Ion Ratio	Lower	Upper	
91	100		
106	44.2	27.3	67.3





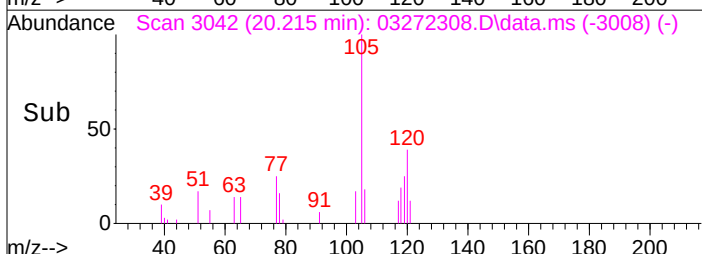
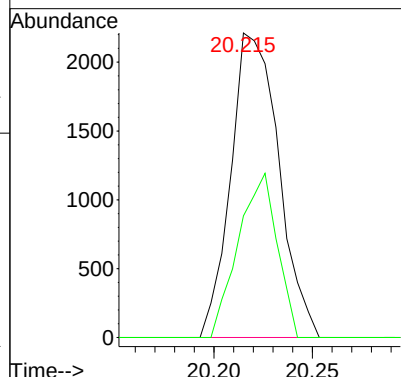
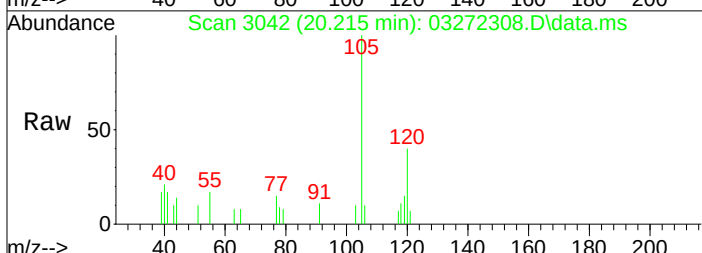
#71
n-Nonane
Concen: 0.06 ng
RT: 18.89 min Scan# 2801
Delta R.T. -0.011 min
Lab File: 03272308.D
Acq: 27 Mar 2023 8:55

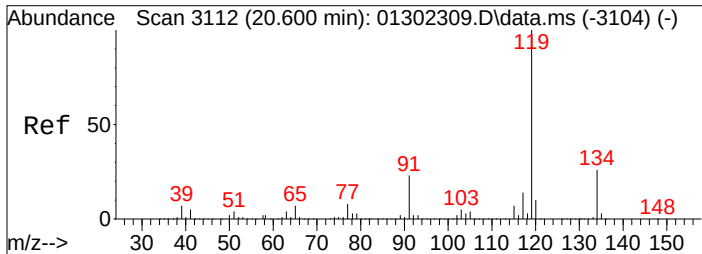
Tgt Ion: 43 Resp: 2663
Ion Ratio Lower Upper
43 100
57 77.2 64.6 104.6
85 25.4 9.6 49.6



#82
1,2,4-Trimethylbenzene
Concen: 0.05 ng
RT: 20.21 min Scan# 3042
Delta R.T. -0.011 min
Lab File: 03272308.D
Acq: 27 Mar 2023 8:55

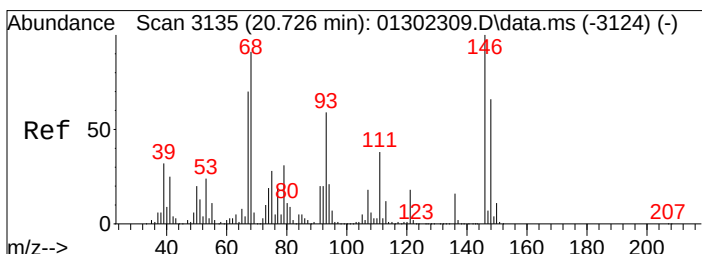
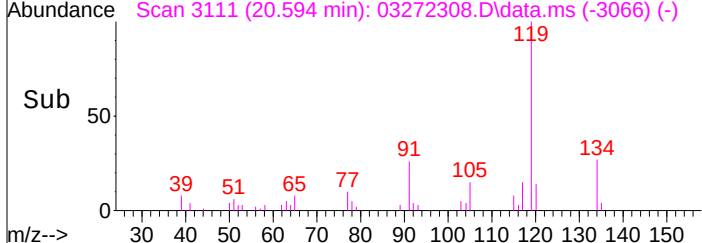
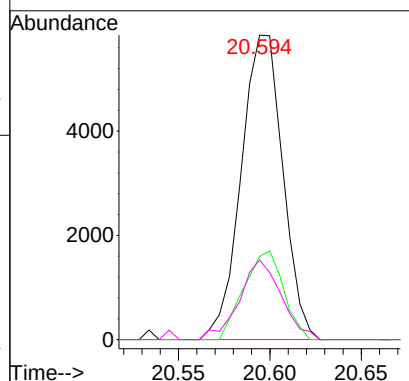
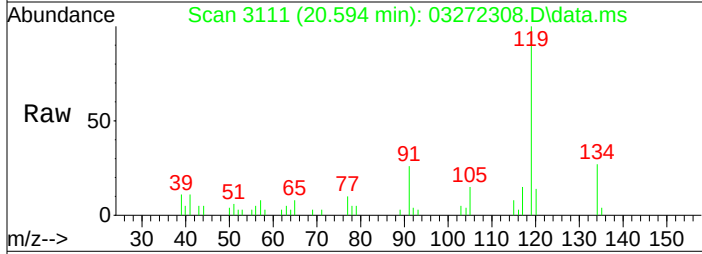
Tgt Ion: 105 Resp: 3740
Ion Ratio Lower Upper
105 100
120 43.8 37.2 77.2





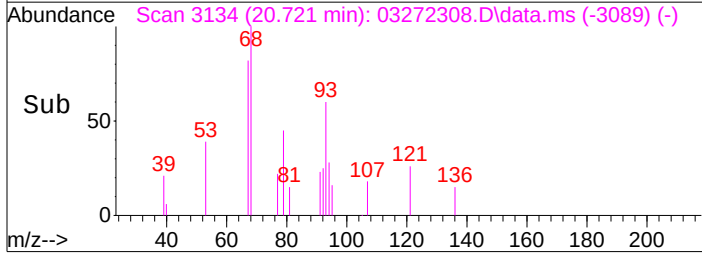
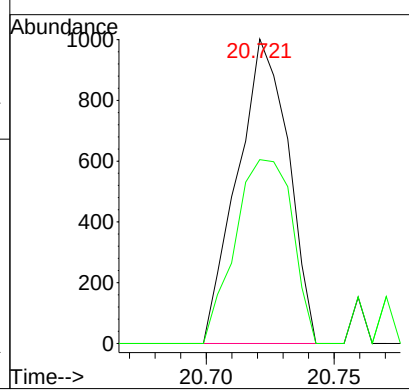
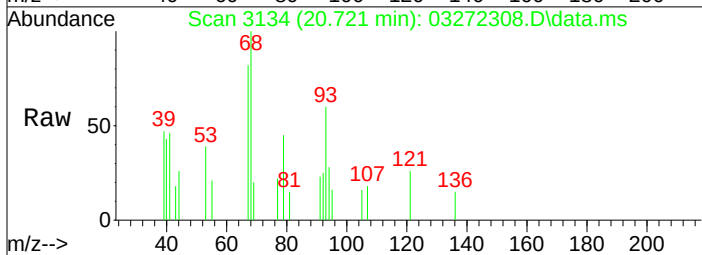
#88
 4-Isopropyltoluene (p-Cymene)
 Concen: 0.09 ng
 RT: 20.59 min Scan# 3111
 Delta R.T. -0.005 min
 Lab File: 03272308.D
 Acq: 27 Mar 2023 8:55

Tgt Ion:	119	Resp:	9276
Ion Ratio		Lower	Upper
119	100		
134	27.7	7.5	47.5
91	26.2	3.7	43.7



#91
 d-Limonene
 Concen: 0.07 ng
 RT: 20.72 min Scan# 3134
 Delta R.T. -0.005 min
 Lab File: 03272308.D
 Acq: 27 Mar 2023 8:55

Tgt Ion:	68	Resp:	1385
Ion Ratio		Lower	Upper
68	100		
93	68.2	49.6	89.6



Data File : I:\MS16\DATA\2023_03\27\03272308.D
 Acq On : 27 Mar 2023 8:55
 Sample : P2301250-056 (1000mL)
 Misc : S35-01312301

Vial: 3
 Operator: WA
 Inst : GCMS-16

 3/27/23

Quant Time: Mar 27 12:10:16 2023
 Quant Method : I:\MS16\METHODS\C16122022.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Dec 21 05:02:49 2022
 Response via : Initial Calibration
 DataAcq Meth:T015B.M

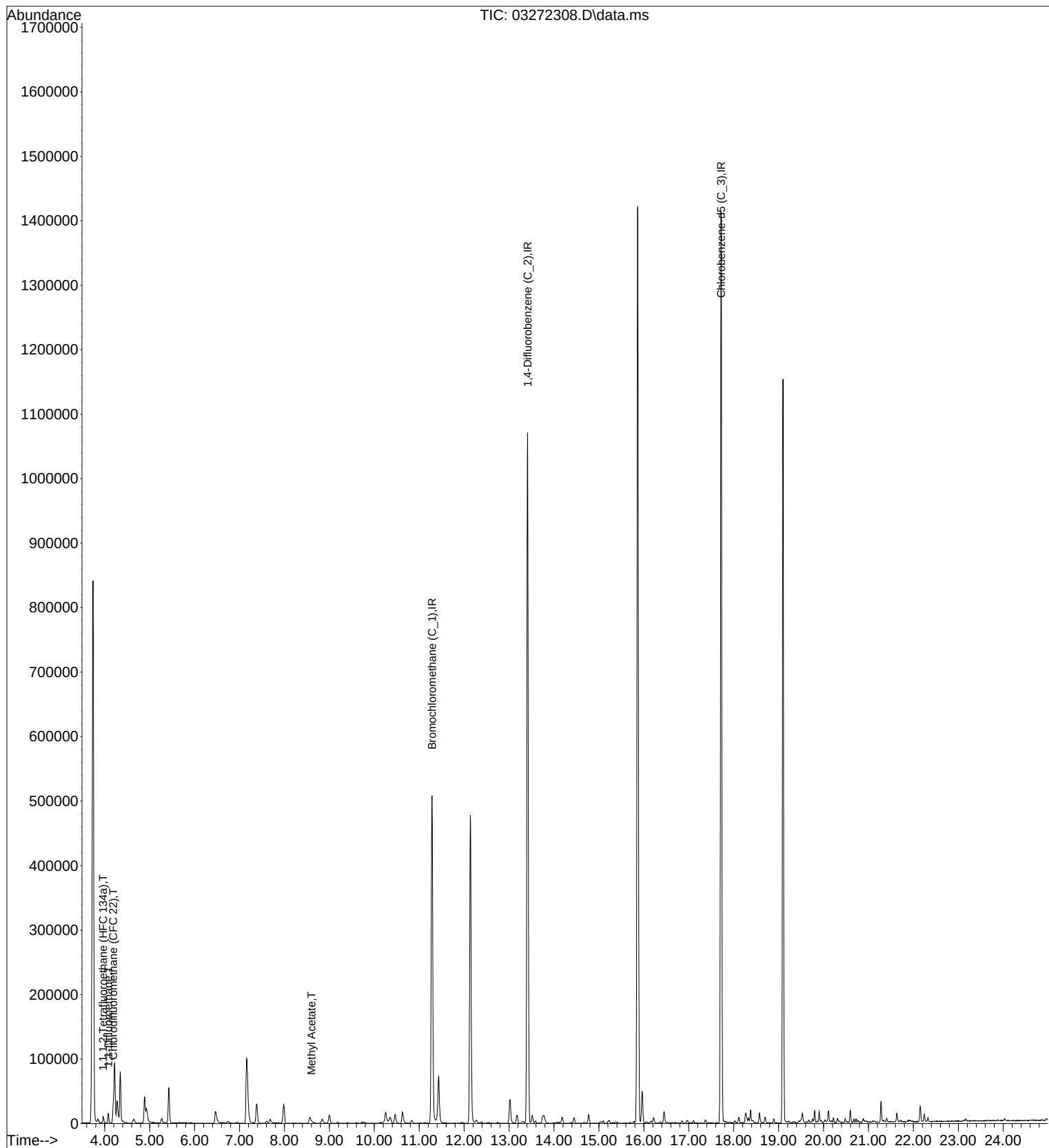
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.28	130	205545	12.500	ng	-0.02
16) 1,4-Difluorobenzene (C_2)	13.41	114	948064	12.500	ng	-0.01
19) Chlorobenzene-d5 (C_3)	17.72	54	200004	12.500	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.88	85	738	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.97	83	6456	0.396	ng	84
4) 1,1-Difluoroethane	4.08	65	6166	0.396	ng	93
5) Chlorodifluoromethane ...	4.19	67	2979	0.586	ng	83
6) 1-Chloro-1,1-Difluoroe...	4.65	65	3040	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	8.60	43	5832	0.115	ng	# 65
12) 2-Methylpentane	0.00	71	0	N.D.	d	
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	13.18	84	1580	N.D.		
17) 2,3-Dimethylpentane	13.59	56	1559	N.D.		
18) Dibromomethane	13.82	174	127	N.D.		
20) Methyl Cyclohexane	15.10	55	1475	N.D.		
21) 1,3-Dichloropropane	15.96	76	52	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	0.00	91	0	N.D.		
24) 1,2,3-Trichloropropane	0.00	75	0	N.D.		
25) Bromobenzene	19.42	77	54	N.D.		
26) 2-Chlorotoluene	19.67	91	1933	N.D.		
27) 4-Chlorotoluene	19.67	91	1933	N.D.		
28) Indane	20.77	117	393	N.D.		
29) Indene	0.00	115	0	N.D.		
30) 1,2,4,5-Tetramethylben...	21.62	119	58	N.D.		
31) 1,2,3,4-Tetramethylben...	21.65	119	206	N.D.		
32) 1,2,3,5-Tetramethylben...	0.00	119	0	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Vial: 3
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 12:10:16 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: OA-031523B

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-057

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: SC02093

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.17 Final Pressure (psig): 3.63

Container Dilution Factor: 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.8	0.67	0.11	0.58	0.14	0.022	
74-87-3	Chloromethane	0.30	0.26	0.11	0.15	0.13	0.052	V
75-01-4	Vinyl Chloride	ND	0.14	0.072	ND	0.054	0.028	
74-83-9	Bromomethane	ND	0.26	0.093	ND	0.068	0.024	
75-00-3	Chloroethane	ND	0.26	0.083	ND	0.10	0.032	
67-64-1	Acetone	3.8	6.6	1.5	1.6	2.8	0.64	J
75-69-4	Trichlorofluoromethane	1.4	0.66	0.10	0.24	0.12	0.018	
75-35-4	1,1-Dichloroethene	ND	0.14	0.093	ND	0.035	0.024	
75-09-2	Methylene Chloride	0.39	0.67	0.19	0.11	0.19	0.054	J
76-13-1	Trichlorotrifluoroethane	0.51	0.68	0.096	0.067	0.089	0.013	J
75-15-0	Carbon Disulfide	0.29	1.3	0.20	0.094	0.43	0.065	J
156-60-5	trans-1,2-Dichloroethene	ND	0.14	0.093	ND	0.035	0.024	
75-34-3	1,1-Dichloroethane	ND	0.14	0.098	ND	0.034	0.024	
1634-04-4	Methyl tert-Butyl Ether	ND	0.68	0.079	ND	0.19	0.022	
78-93-3	2-Butanone (MEK)	0.68	1.3	0.14	0.23	0.44	0.047	J
156-59-2	cis-1,2-Dichloroethene	ND	0.14	0.095	ND	0.035	0.024	
67-66-3	Chloroform	ND	0.14	0.089	ND	0.028	0.018	
107-06-2	1,2-Dichloroethane	0.089	0.14	0.074	0.022	0.034	0.018	J
71-55-6	1,1,1-Trichloroethane	ND	0.14	0.083	ND	0.025	0.015	
71-43-2	Benzene	0.53	0.14	0.097	0.17	0.043	0.030	
56-23-5	Carbon Tetrachloride	0.46	0.14	0.093	0.074	0.022	0.015	
110-82-7	Cyclohexane	ND	1.3	0.19	ND	0.38	0.055	
78-87-5	1,2-Dichloropropane	ND	0.14	0.083	ND	0.030	0.018	
75-27-4	Bromodichloromethane	ND	0.14	0.097	ND	0.021	0.014	
79-01-6	Trichloroethene	ND	0.14	0.091	ND	0.026	0.017	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: OA-031523B

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-057

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: SC02093

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.17 Final Pressure (psig): 3.63

Container Dilution Factor: 1.26

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.68	0.10	ND	0.15	0.023	
108-10-1	4-Methyl-2-pentanone	ND	1.4	0.092	ND	0.34	0.022	
10061-02-6	trans-1,3-Dichloropropene	ND	0.64	0.14	ND	0.14	0.031	
79-00-5	1,1,2-Trichloroethane	ND	0.14	0.068	ND	0.025	0.012	
108-88-3	Toluene	0.74	0.67	0.082	0.20	0.18	0.022	
591-78-6	2-Hexanone	0.084	1.4	0.083	0.021	0.34	0.020	J
124-48-1	Dibromochloromethane	ND	0.14	0.088	ND	0.016	0.010	
106-93-4	1,2-Dibromoethane	ND	0.14	0.078	ND	0.018	0.010	
127-18-4	Tetrachloroethene	0.12	0.14	0.087	0.018	0.020	0.013	J
108-90-7	Chlorobenzene	ND	0.67	0.089	ND	0.15	0.019	
100-41-4	Ethylbenzene	0.11	0.67	0.095	0.025	0.15	0.022	J
179601-23-1	m,p-Xylenes	0.30	1.4	0.18	0.070	0.32	0.041	J
75-25-2	Bromoform	ND	0.68	0.14	ND	0.066	0.013	
100-42-5	Styrene	ND	0.67	0.11	ND	0.16	0.025	
95-47-6	o-Xylene	0.12	0.67	0.097	0.028	0.15	0.022	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	0.093	ND	0.020	0.014	
98-82-8	Cumene	ND	0.68	0.097	ND	0.14	0.020	
541-73-1	1,3-Dichlorobenzene	ND	0.67	0.10	ND	0.11	0.017	
106-46-7	1,4-Dichlorobenzene	ND	0.67	0.10	ND	0.11	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.68	0.10	ND	0.11	0.017	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.4	0.13	ND	0.14	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	1.4	0.16	ND	0.19	0.022	
79-20-9	Methyl Acetate	ND	0.63	0.30	ND	0.21	0.10	X
108-87-2	Methylcyclohexane	ND	0.63	0.33	ND	0.16	0.082	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS16\DATA\2023_03\27\03272309.D
 Acq On : 27 Mar 2023 9:29
 Sample : P2301250-057 (1000mL)
 Misc : S35-01312301

Vial: 5
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 11:53:44 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

407 3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	204665	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	946813	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.72	54	199840	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	362621	13.323	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	106.56%	
57) Toluene-d8 (SS2)	15.86	98	1068126	12.209	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	97.68%	
73) Bromofluorobenzene (SS3)	19.10	174	312614	11.456	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	91.68%	

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	4.33	85	69165	2.261	ng	100
4) Chloromethane	4.62	50	6866	0.240	ng	94
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	1616	0.095	ng	99
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.33	54	377	N.D.		
8) Bromomethane	5.77	94	238	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.46	45	50406	2.559	ng	96
11) Acetonitrile	6.74	41	3425	0.069	ng	79
12) Acrolein	6.94	56	2167	0.155	ng	94
13) Acetone	7.15	58	45984	3.053	ng	# 82
14) Trichlorofluoromethane	7.38	101	30504	1.081	ng	99
15) 2-Propanol (Isopropanol)	7.67	45	15818	0.302	ng	91
16) Acrylonitrile	7.90	53	213	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	8.60	59	1155	N.D.		
19) Methylene Chloride	8.56	84	5154	0.310	ng	91
20) 3-Chloro-1-propene (Al...	8.66	41	549	N.D.		
21) Trichlorotrifluoroethane	8.99	151	5723	0.407	ng	92
22) Carbon Disulfide	8.84	76	13857	0.233	ng	97
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	10.32	86	1336	0.397	ng	# 86
27) 2-Butanone (MEK)	10.62	72	5868	0.537	ng	99
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	11.42	61	35862	5.021	ng	97
31) n-Hexane	11.41	57	5522	0.154	ng	100
32) Chloroform	11.45	83	1912	0.070	ng	100
34) Tetrahydrofuran (THF)	11.94	72	176	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	12.26	62	1572	0.071	ng	84
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.02	78	28045	0.421	ng	98
42) Carbon Tetrachloride	13.18	117	8003	0.369	ng	99
43) Cyclohexane	13.31	84	1194	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	13.87	63	164	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	14.18	57	9621	0.107	ng	73
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS16\DATA\2023_03\27\03272309.D
 Acq On : 27 Mar 2023 9:29
 Sample : P2301250-057 (1000mL)
 Misc : S35-01312301

Vial: 5
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 11:53:44 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

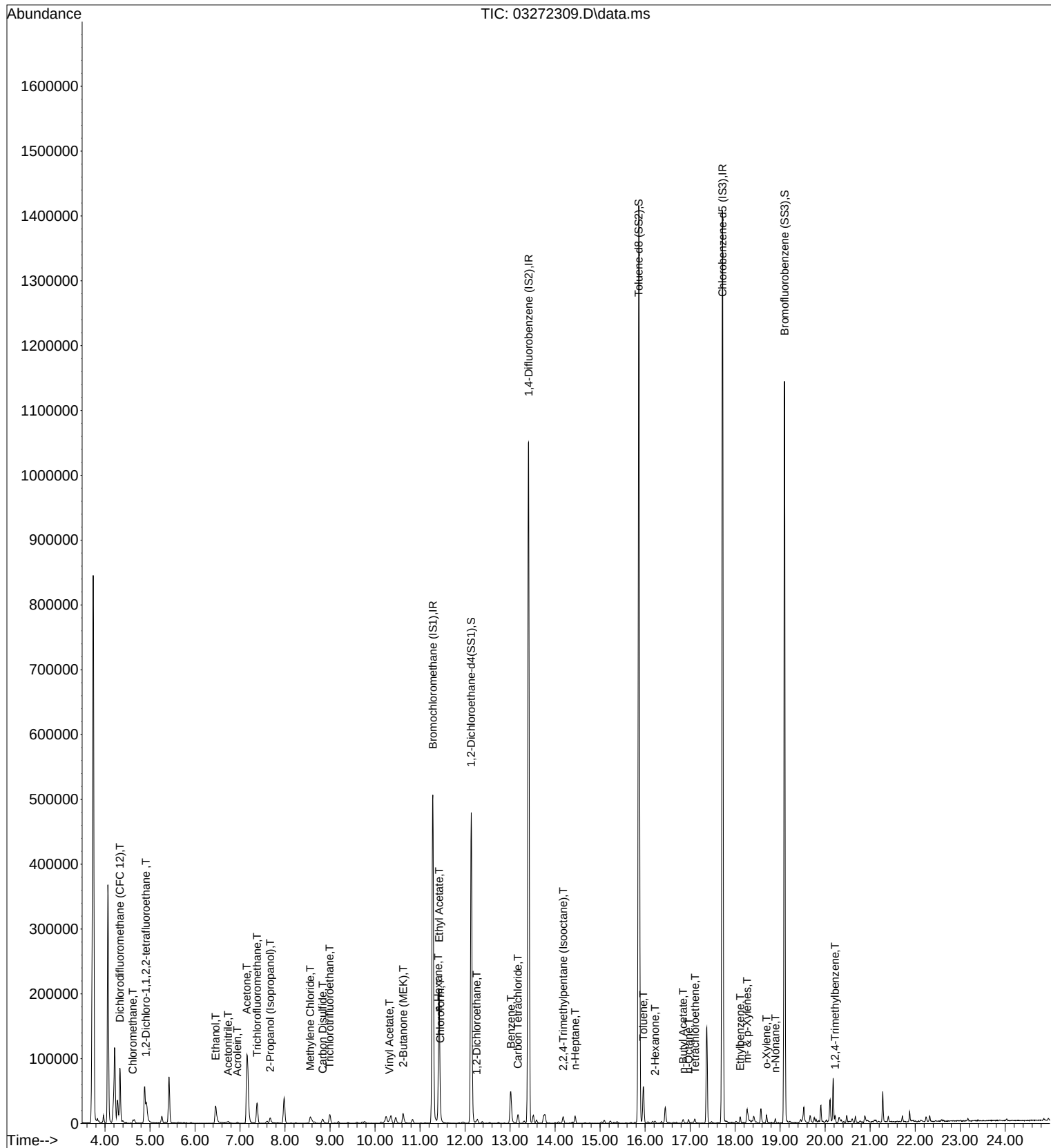
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.45	71	2715	0.139	ng	95
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	15.04	58	369	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.96	91	44821	0.585	ng	97
59) 2-Hexanone	16.22	43	2703	0.067	ng	# 70
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.84	43	5169	0.112	ng	92
63) n-Octane	16.97	57	1001	0.051	ng	# 89
64) Tetrachloroethene	17.11	166	1907	0.098	ng	98
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	18.11	91	7511	0.087	ng	95
67) m- & p-Xylenes	18.27	91	16578	0.242	ng	98
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.60	104	740	N.D.		
70) o-Xylene	18.70	91	6513	0.097	ng	93
71) n-Nonane	18.89	43	3062	0.064	ng	# 75
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	19.22	105	865	N.D.		
75) alpha-Pinene	19.57	93	574	N.D.		
76) n-Propylbenzene	19.66	91	2120	N.D.		
77) 3-Ethyltoluene	20.22	105	5329	No Calib	#	
78) 4-Ethyltoluene	19.80	105	1888	N.D.		
79) 1,3,5-Trimethylbenzene	19.86	105	1457	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.22	105	5329	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.22	105	5329	0.077	ng	87
83) n-Decane	20.12	58	598	No Calib	#	
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	20.42	146	296	N.D.		
86) 1,4-Dichlorobenzene	20.42	146	296	N.D.		
87) sec-Butylbenzene	20.46	105	257	N.D.		
88) 4-Isopropyltoluene (p-...	20.59	119	1326	N.D.		
89) 1,2,3-Trimethylbenzene	20.22	105	5329	No Calib	#	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	20.72	68	167	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	21.28	58	460	No Calib	#	
94) 1,2,4-Trichlorobenzene	22.23	180	119	N.D.		
95) Naphthalene	22.33	128	2301	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	18.20	55	346	No Calib	#	
99) tert-Butylbenzene	20.22	119	752	N.D.		
100) n-Butylbenzene	20.96	91	1435	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\27\03272309.D
Acq On : 27 Mar 2023 9:29
Sample : P2301250-057 (1000mL)
Misc : S35-01312301

Vial: 5
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 11:53:44 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



Data File : I:\MS16\DATA\2023_03\27\03272309.D
 Acq On : 27 Mar 2023 9:29
 Sample : P2301250-057 (1000mL)
 Misc : S35-01312301

Vial: 5
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Quant Time: Mar 27 11:53:44 2023
 Quant Method : I:\MS16\METHODS\R16122022.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Wed Dec 21 03:06:38 2022
 Response via : Initial Calibration
 DataAcq Meth:T015B.M

107 3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	204665	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	946813	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.72	54	199840	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	362621	13.323	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	106.56%
57) Toluene-d8 (SS2)	15.86	98	1068126	12.209	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	97.68%
73) Bromofluorobenzene (SS3)	19.10	174	312614	11.456	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	91.68%

Target Compounds

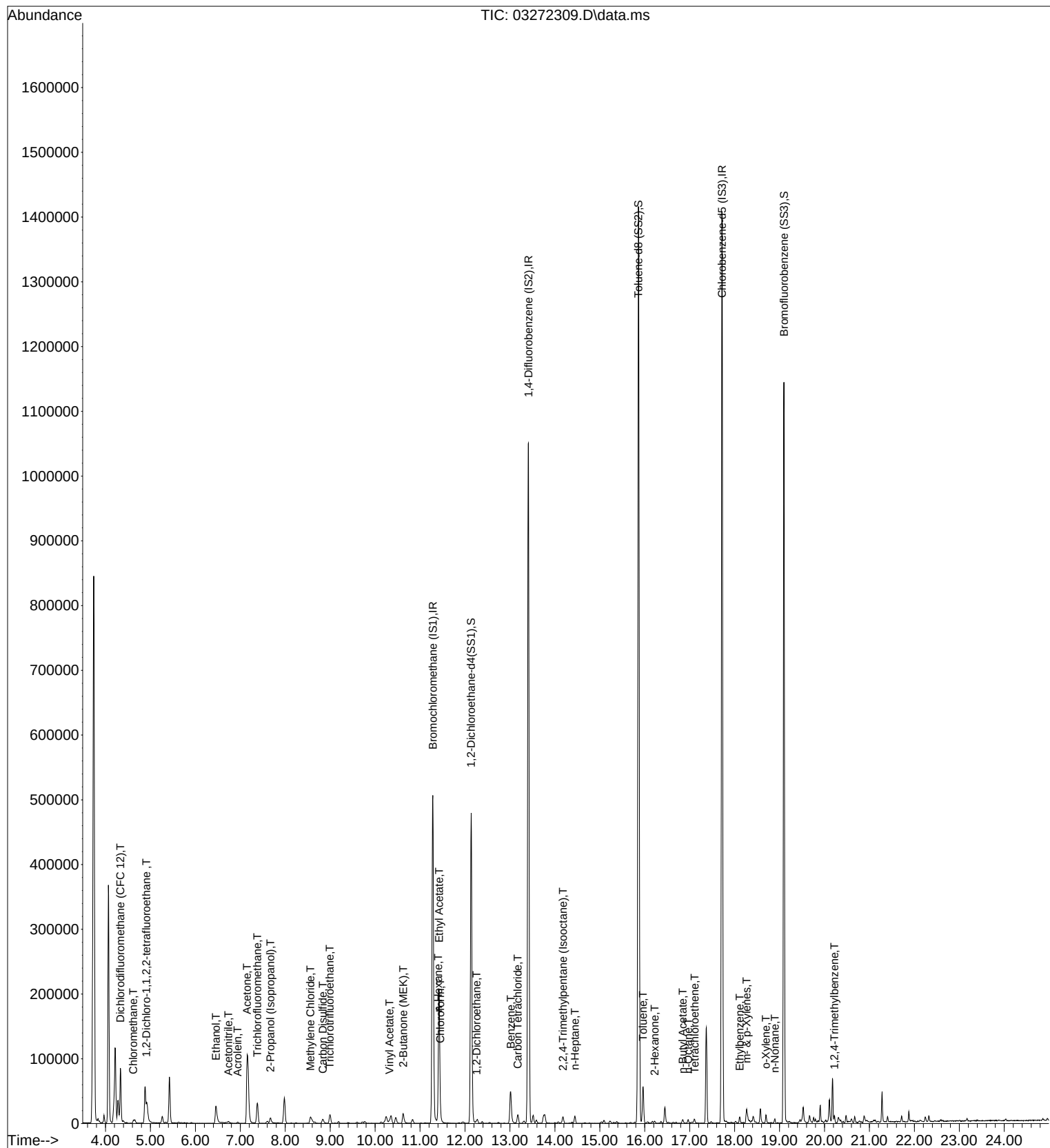
						Qvalue
3) Dichlorodifluoromethan...	4.33	85	69165	2.261	ng	100
4) Chloromethane	4.62	50	6866	0.240	ng	94
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	1616	0.095	ng	99
10) Ethanol	6.46	45	50406	2.559	ng	96
11) Acetonitrile	6.74	41	3425	0.069	ng	79
12) Acrolein	6.94	56	2167	0.155	ng	94
13) Acetone	7.15	58	45984	3.053	ng	# 82
14) Trichlorofluoromethane	7.38	101	30504	1.081	ng	99
15) 2-Propanol (Isopropanol)	7.67	45	15818	0.302	ng	91
19) Methylene Chloride	8.56	84	5154	0.310	ng	91
21) Trichlorotrifluoroethane	8.99	151	5723	0.407	ng	92
22) Carbon Disulfide	8.84	76	13857	0.233	ng	97
26) Vinyl Acetate	10.32	86	1336	0.397	ng	# 86
27) 2-Butanone (MEK)	10.62	72	5868	0.537	ng	99
30) Ethyl Acetate	11.42	61	35862	5.021	ng	97
31) n-Hexane	11.41	57	5522	0.154	ng	100
32) Chloroform	11.45	83	1912	0.070	ng	100
36) 1,2-Dichloroethane	12.26	62	1572	0.071	ng	84
41) Benzene	13.02	78	28045	0.421	ng	98
42) Carbon Tetrachloride	13.18	117	8003	0.369	ng	99
49) 2,2,4-Trimethylpentane...	14.18	57	9621	0.107	ng	73
51) n-Heptane	14.45	71	2715	0.139	ng	95
58) Toluene	15.96	91	44821	0.585	ng	97
59) 2-Hexanone	16.22	43	2703	0.067	ng	# 70
62) n-Butyl Acetate	16.84	43	5169	0.112	ng	92
63) n-Octane	16.97	57	1001	0.051	ng	# 89
64) Tetrachloroethene	17.11	166	1907	0.098	ng	98
66) Ethylbenzene	18.11	91	7511	0.087	ng	95
67) m- & p-Xylenes	18.27	91	16578	0.242	ng	98
70) o-Xylene	18.70	91	6513	0.097	ng	93
71) n-Nonane	18.89	43	3062	0.064	ng	# 75
82) 1,2,4-Trimethylbenzene	20.22	105	5329	0.077	ng	87

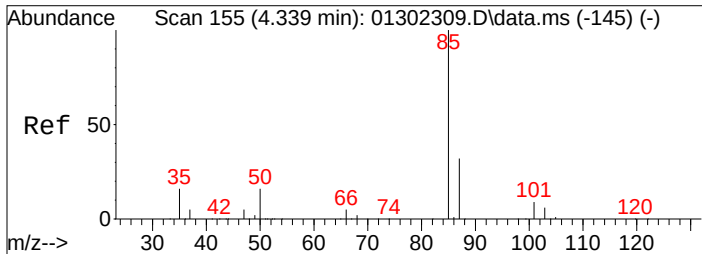
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS16\DATA\2023_03\27\03272309.D
Acq On : 27 Mar 2023 9:29
Sample : P2301250-057 (1000mL)
Misc : S35-01312301

Vial: 5
Operator: WA
Inst : GCMS-16

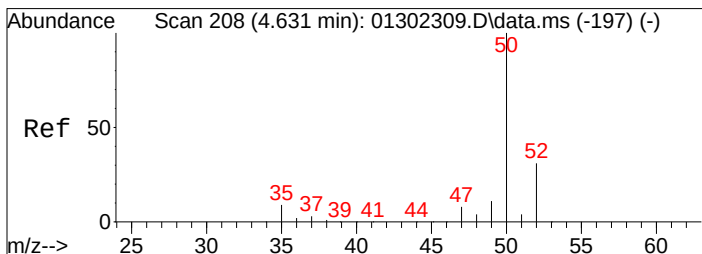
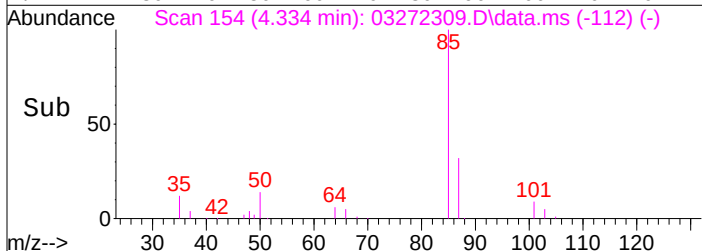
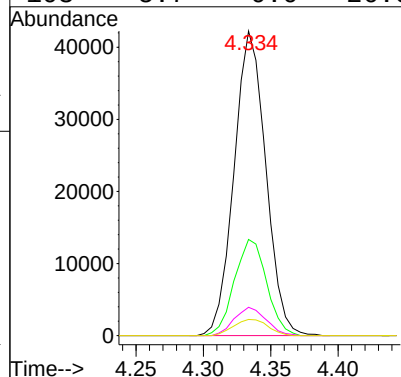
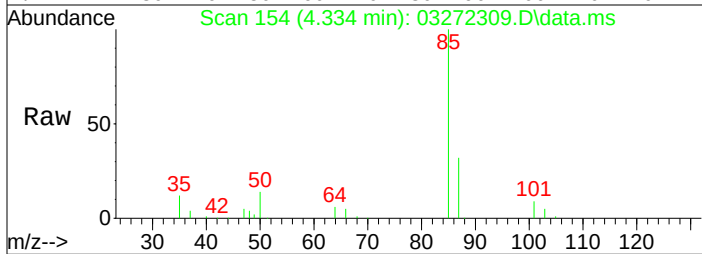
Quant Time: Mar 27 11:53:44 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:TO15B.M





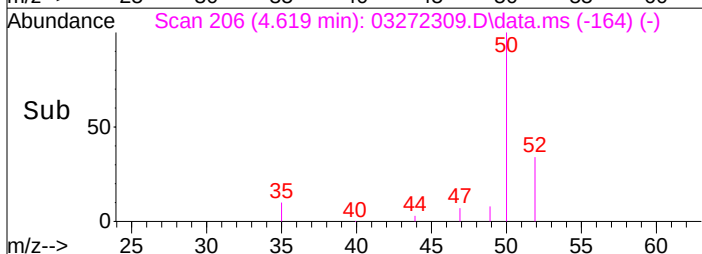
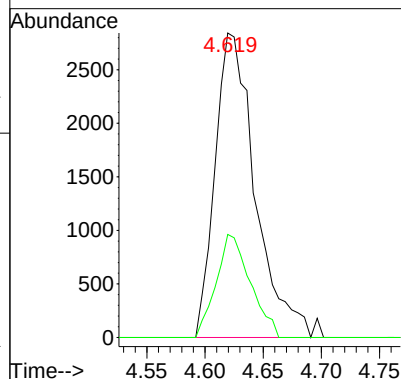
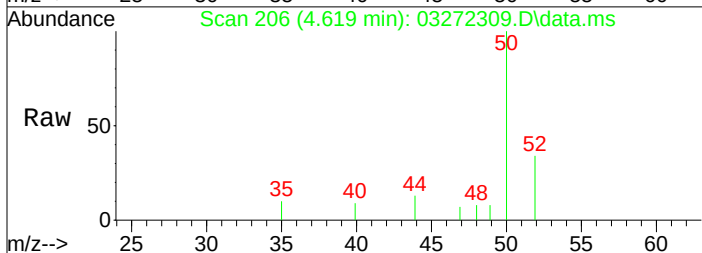
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 2.26 ng
 RT: 4.33 min Scan# 154
 Delta R.T. -0.016 min
 Lab File: 03272309.D
 Acq: 27 Mar 2023 9:29

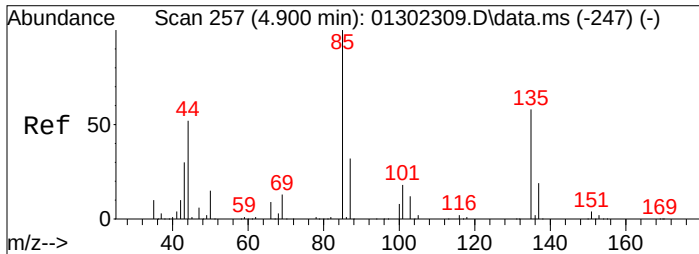
Tgt Ion:	85	Resp:	69165
Ion Ratio		Lower	Upper
85	100		
87	32.0	12.1	52.1
101	9.3	0.0	29.3
103	5.7	0.0	26.0



#4
 Chloromethane
 Concen: 0.24 ng
 RT: 4.62 min Scan# 206
 Delta R.T. -0.016 min
 Lab File: 03272309.D
 Acq: 27 Mar 2023 9:29

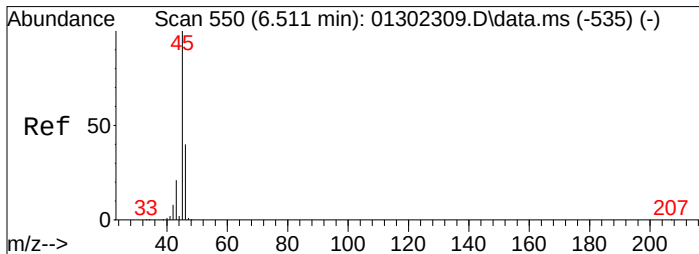
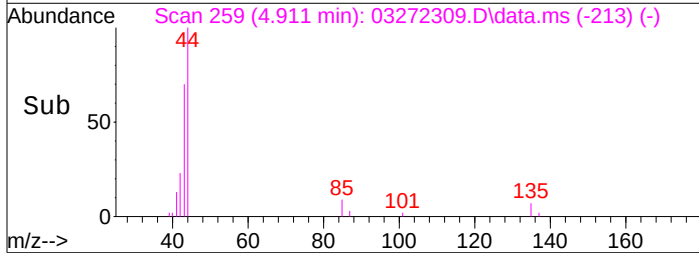
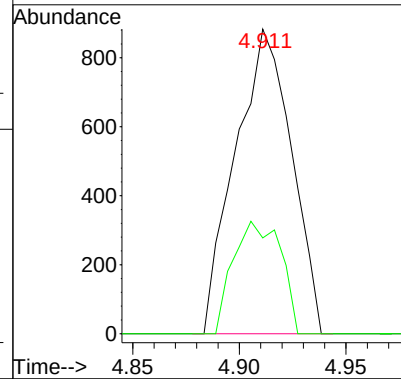
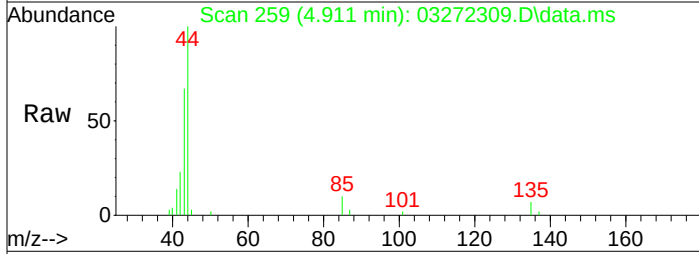
Tgt Ion:	50	Resp:	6866
Ion Ratio		Lower	Upper
50	100		
52	28.7	12.2	52.2





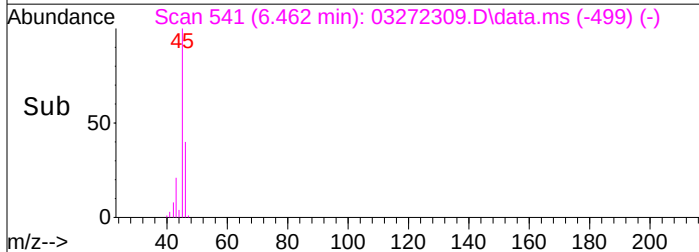
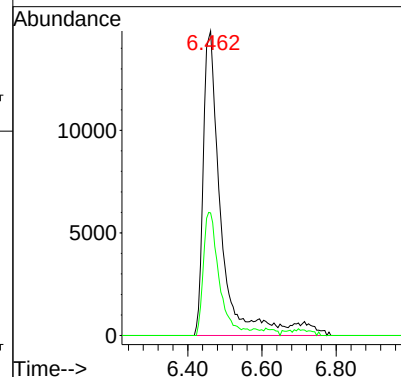
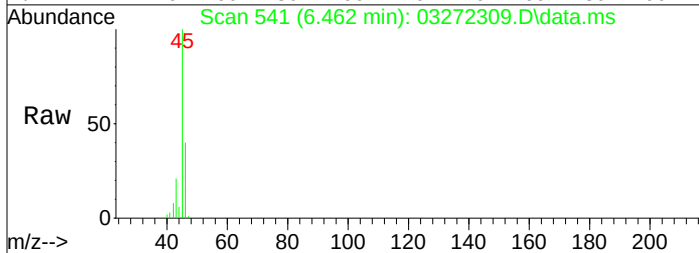
#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.09 ng
 RT: 4.91 min Scan# 259
 Delta R.T. 0.006 min
 Lab File: 03272309.D
 Acq: 27 Mar 2023 9:29

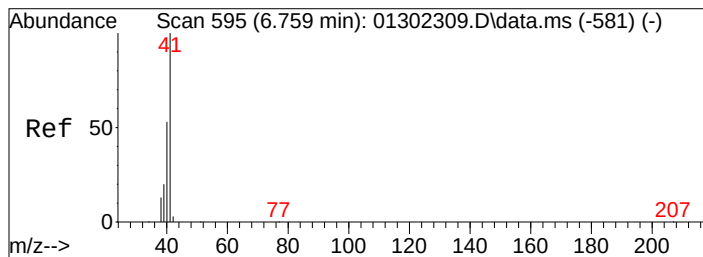
Tgt Ion: 135 Resp: 1616
 Ion Ratio Lower Upper
 135 100
 137 31.4 12.0 52.0



#10
 Ethanol
 Concen: 2.56 ng
 RT: 6.46 min Scan# 541
 Delta R.T. -0.016 min
 Lab File: 03272309.D
 Acq: 27 Mar 2023 9:29

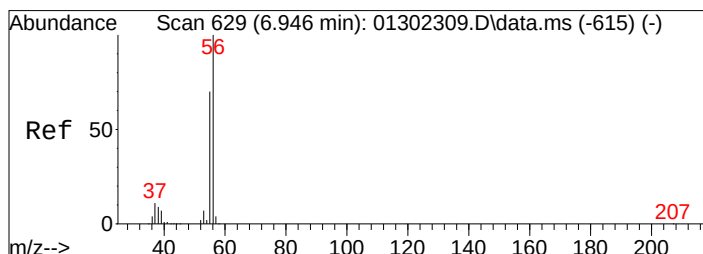
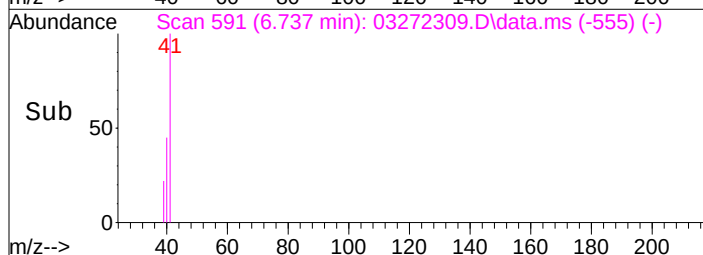
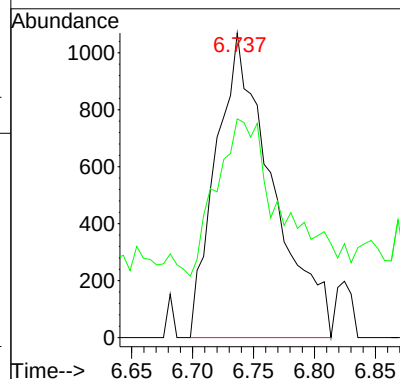
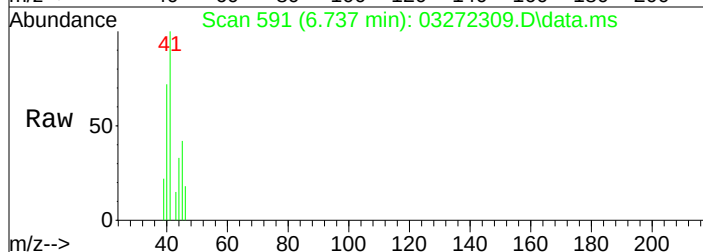
Tgt Ion: 45 Resp: 50406
 Ion Ratio Lower Upper
 45 100
 46 38.0 20.5 60.5





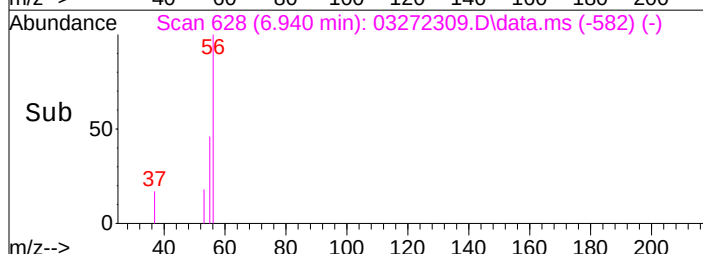
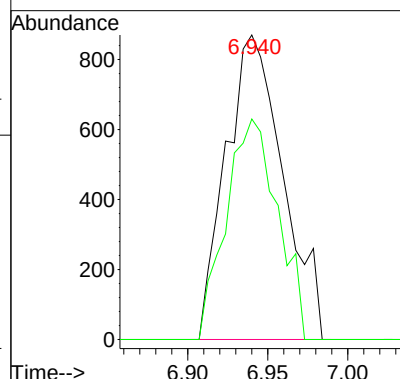
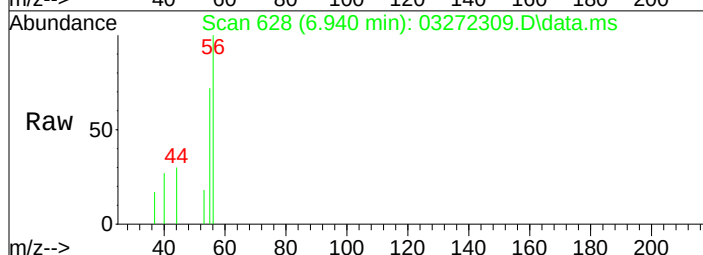
#11
Acetonitrile
Concen: 0.07 ng
RT: 6.74 min Scan# 591
Delta R.T. -0.000 min
Lab File: 03272309.D
Acq: 27 Mar 2023 9:29

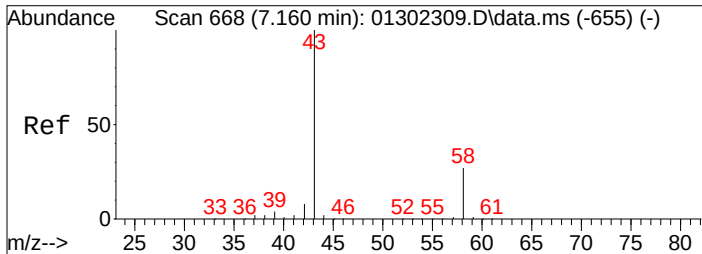
Tgt Ion: 41 Resp: 3425
Ion Ratio Lower Upper
41 100
40 67.4 32.4 72.4



#12
Acrolein
Concen: 0.16 ng
RT: 6.94 min Scan# 628
Delta R.T. 0.005 min
Lab File: 03272309.D
Acq: 27 Mar 2023 9:29

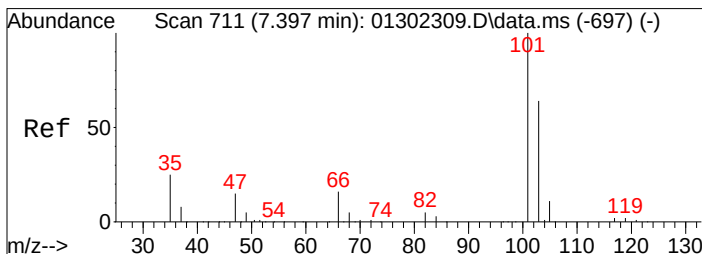
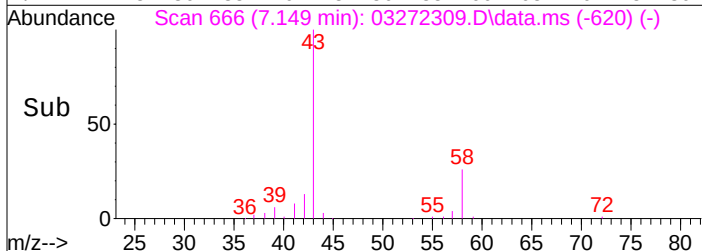
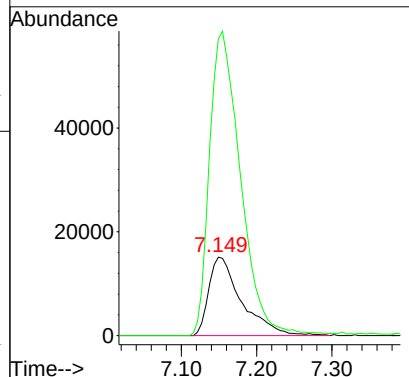
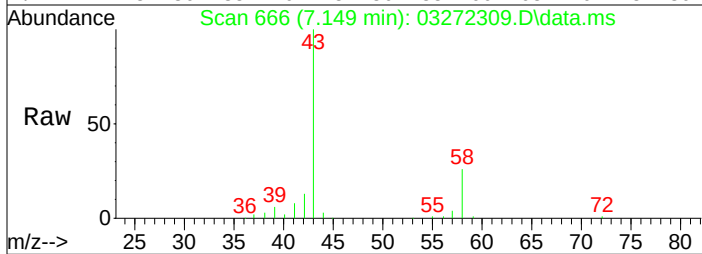
Tgt Ion: 56 Resp: 2167
Ion Ratio Lower Upper
56 100
55 65.3 49.9 89.9





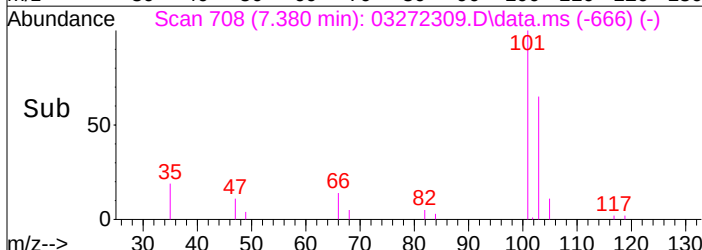
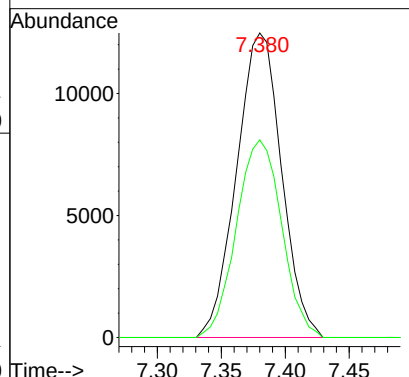
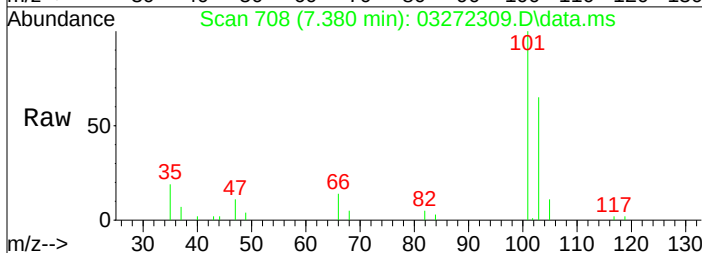
#13
Acetone
Concen: 3.05 ng
RT: 7.15 min Scan# 666
Delta R.T. 0.005 min
Lab File: 03272309.D
Acq: 27 Mar 2023 9:29

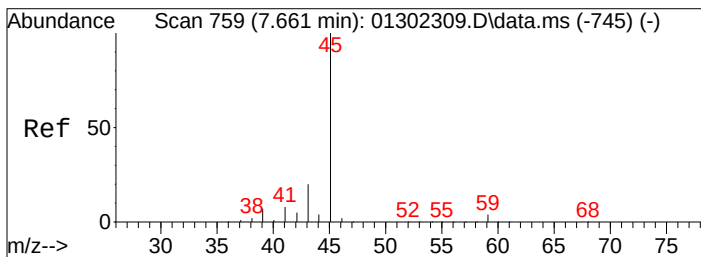
Tgt Ion	Ratio	Lower	Upper
58	100		
43	366.2	298.5	358.5#



#14
Trichlorofluoromethane
Concen: 1.08 ng
RT: 7.38 min Scan# 708
Delta R.T. -0.016 min
Lab File: 03272309.D
Acq: 27 Mar 2023 9:29

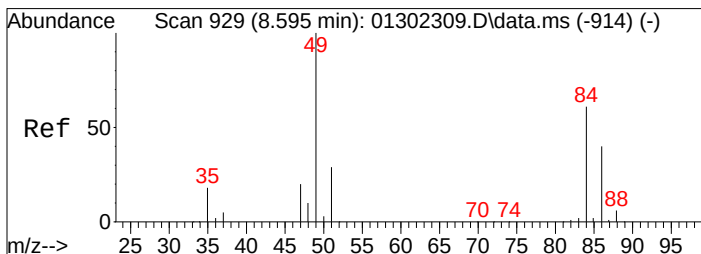
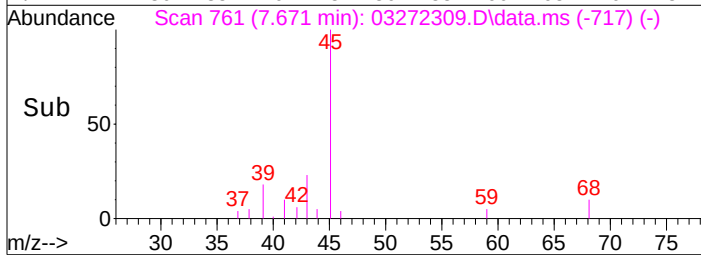
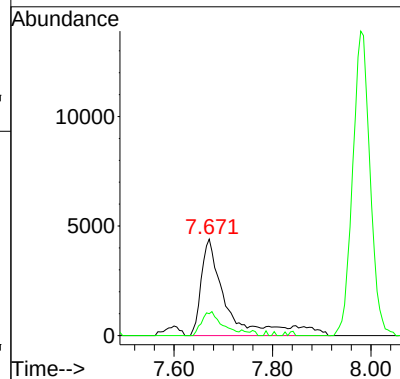
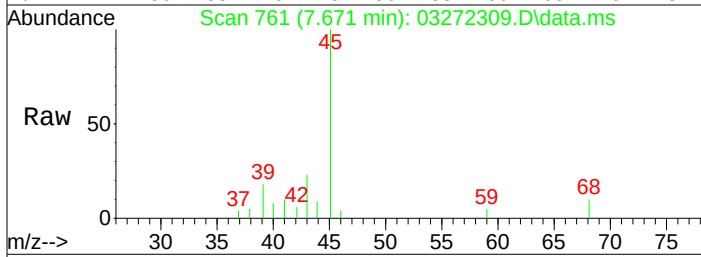
Tgt Ion	Ratio	Lower	Upper
101	100		
103	65.3	44.8	84.8





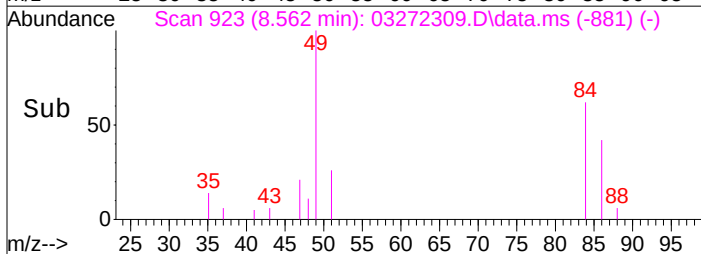
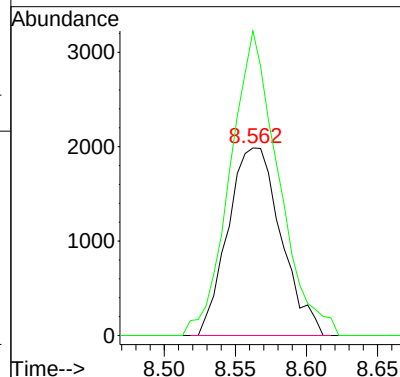
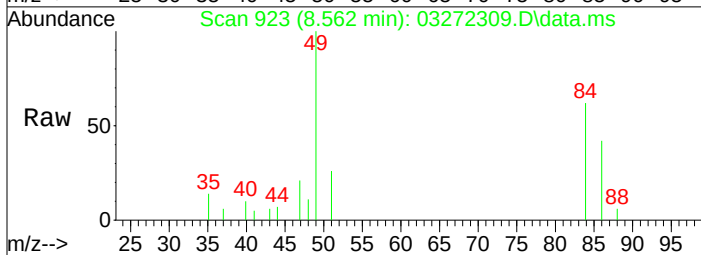
#15
2-Propanol (Isopropanol)
Concen: 0.30 ng
RT: 7.67 min Scan# 761
Delta R.T. -0.009 min
Lab File: 03272309.D
Acq: 27 Mar 2023 9:29

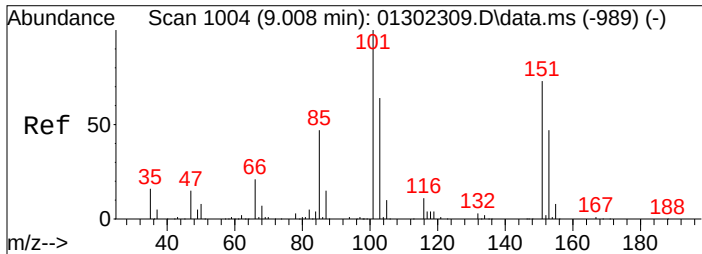
Tgt Ion: 45 Resp: 15818
Ion Ratio Lower Upper
45 100
43 22.1 0.0 37.9



#19
Methylene Chloride
Concen: 0.31 ng
RT: 8.56 min Scan# 923
Delta R.T. -0.016 min
Lab File: 03272309.D
Acq: 27 Mar 2023 9:29

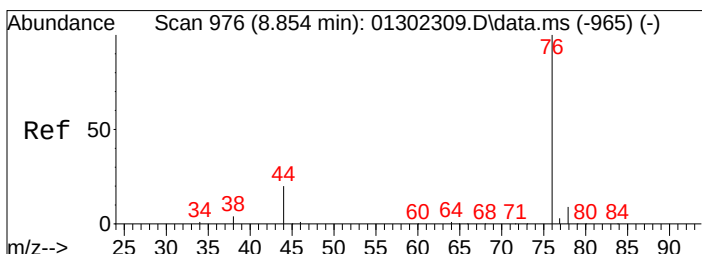
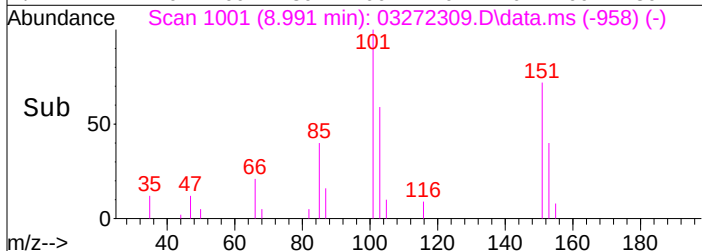
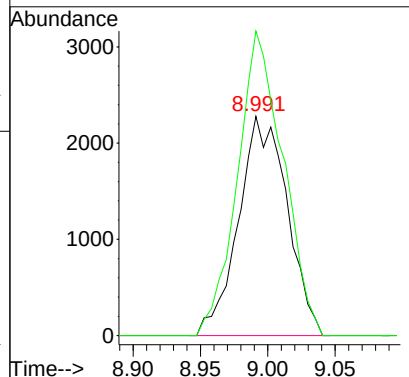
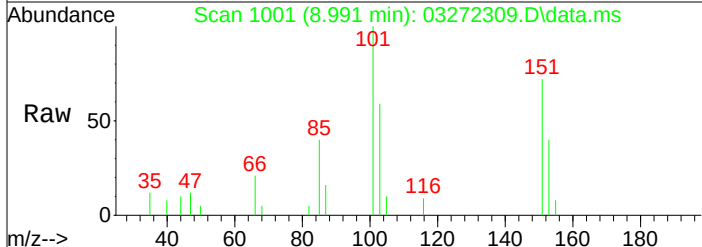
Tgt Ion: 84 Resp: 5154
Ion Ratio Lower Upper
84 100
49 148.2 135.0 185.0





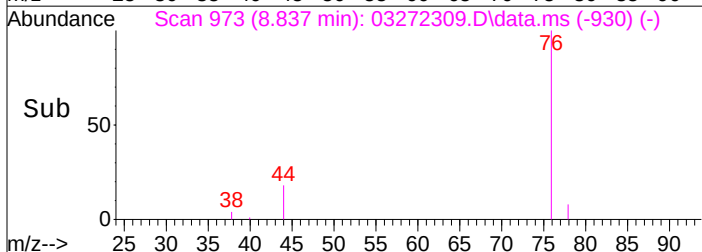
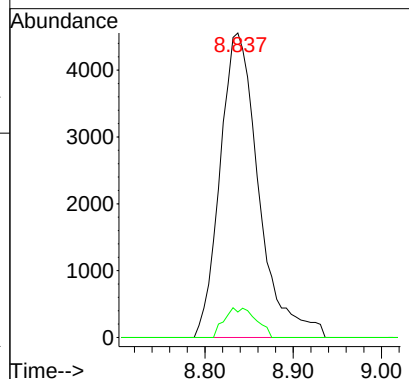
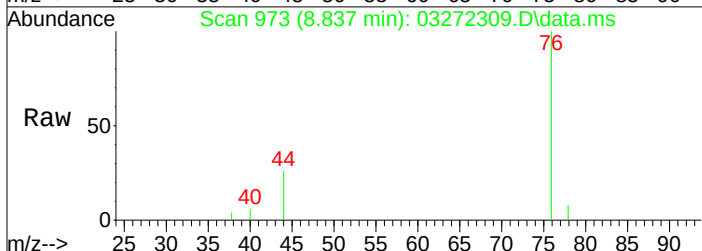
#21
 Trichlorotrifluoroethane
 Concen: 0.41 ng
 RT: 8.99 min Scan# 1001
 Delta R.T. -0.011 min
 Lab File: 03272309.D
 Acq: 27 Mar 2023 9:29

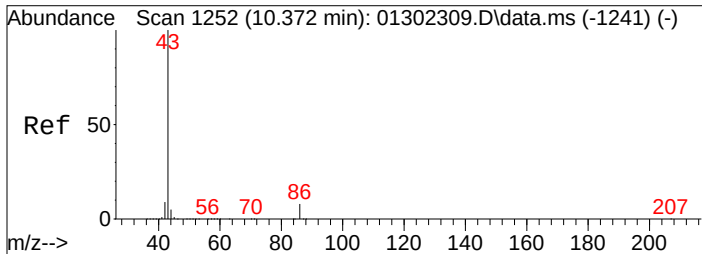
Tgt Ion:	151	Resp:	5723
Ion Ratio		Lower	Upper
151	100		
101	130.3	101.5	141.5



#22
 Carbon Disulfide
 Concen: 0.23 ng
 RT: 8.84 min Scan# 973
 Delta R.T. -0.011 min
 Lab File: 03272309.D
 Acq: 27 Mar 2023 9:29

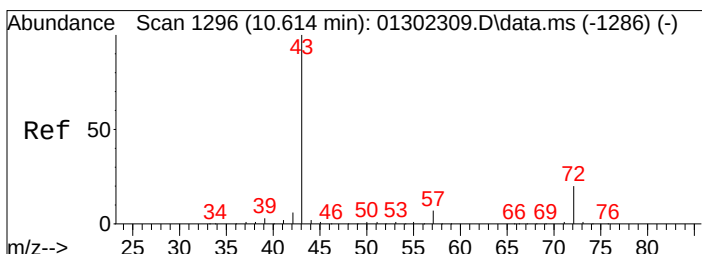
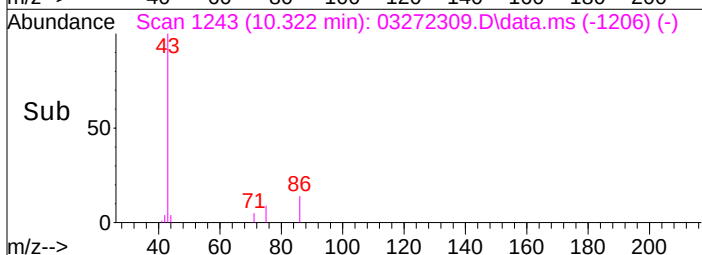
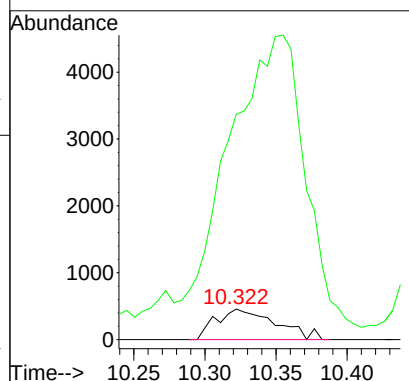
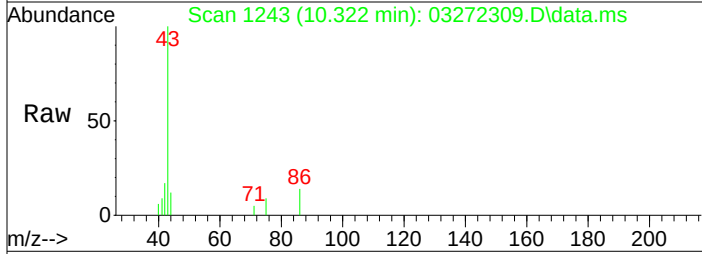
Tgt Ion:	76	Resp:	13857
Ion Ratio		Lower	Upper
76	100		
78	7.9	0.0	29.1





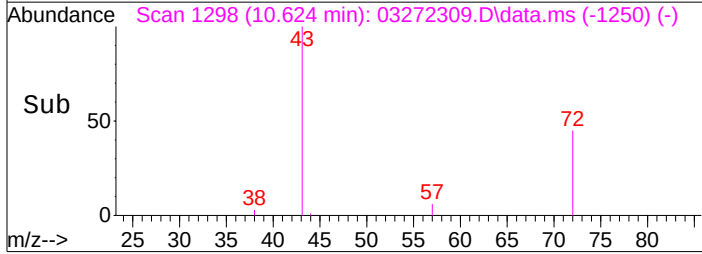
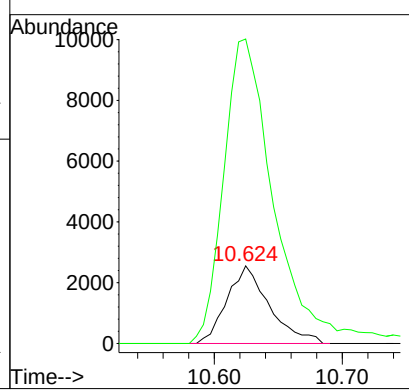
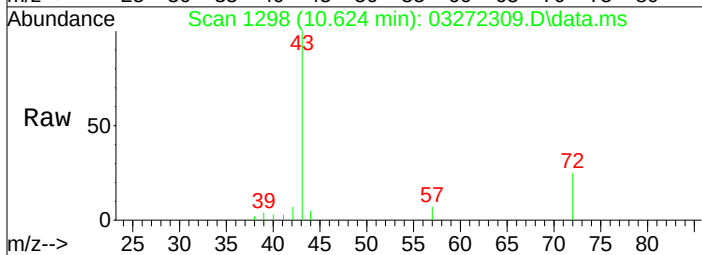
#26
 Vinyl Acetate
 Concen: 0.40 ng
 RT: 10.32 min Scan# 1243
 Delta R.T. -0.044 min
 Lab File: 03272309.D
 Acq: 27 Mar 2023 9:29

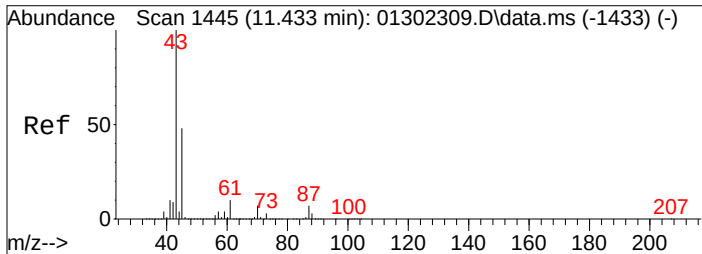
Tgt Ion: 86 Resp: 1336
 Ion Ratio Lower Upper
 86 100
 43 1313.4 1219.3 1259.3#



#27
 2-Butanone (MEK)
 Concen: 0.54 ng
 RT: 10.62 min Scan# 1298
 Delta R.T. 0.017 min
 Lab File: 03272309.D
 Acq: 27 Mar 2023 9:29

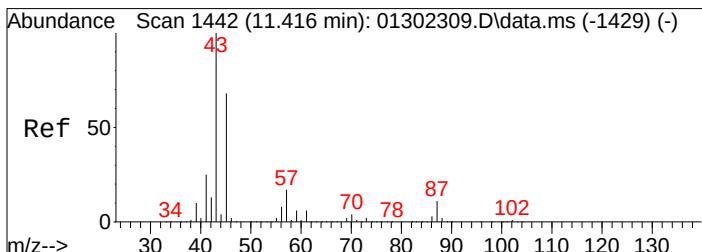
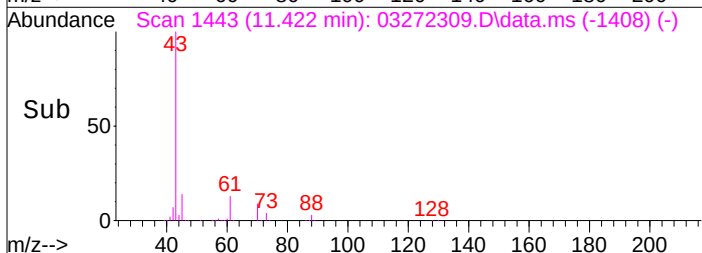
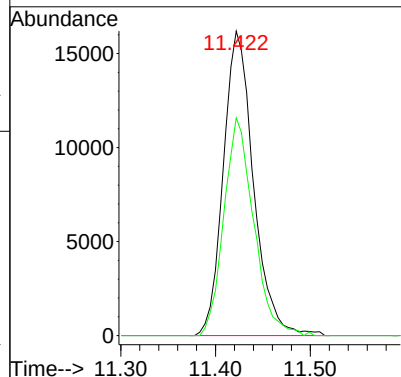
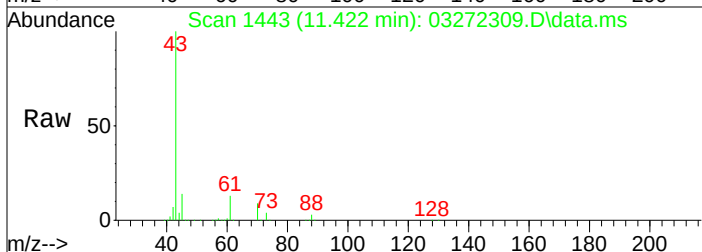
Tgt Ion: 72 Resp: 5868
 Ion Ratio Lower Upper
 72 100
 43 472.6 449.4 489.4





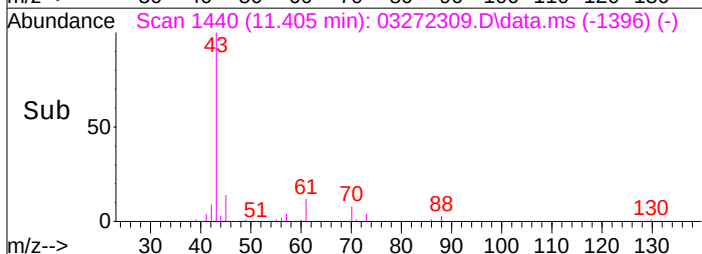
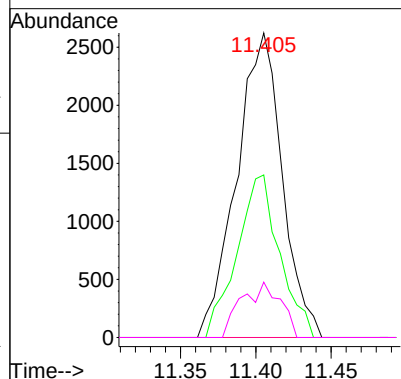
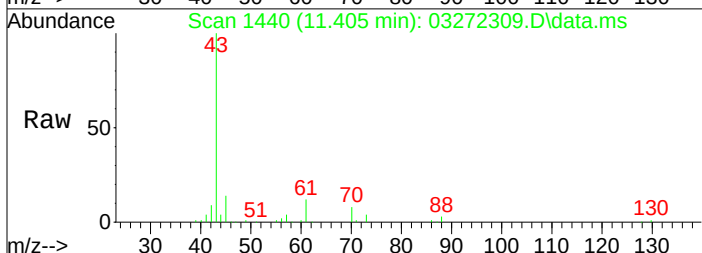
#30
Ethyl Acetate
Concen: 5.02 ng
RT: 11.42 min Scan# 1443
Delta R.T. -0.005 min
Lab File: 03272309.D
Acq: 27 Mar 2023 9:29

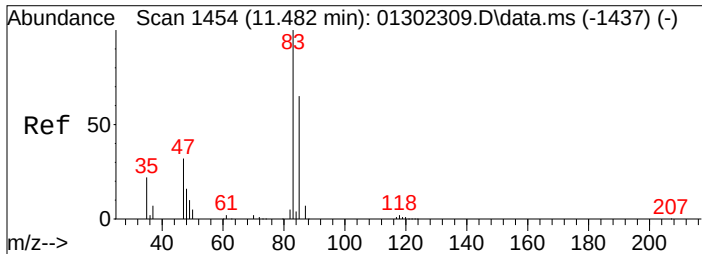
Tgt Ion: 61 Resp: 35862
Ion Ratio Lower Upper
61 100
70 70.6 52.8 92.8



#31
n-Hexane
Concen: 0.15 ng
RT: 11.41 min Scan# 1440
Delta R.T. -0.005 min
Lab File: 03272309.D
Acq: 27 Mar 2023 9:29

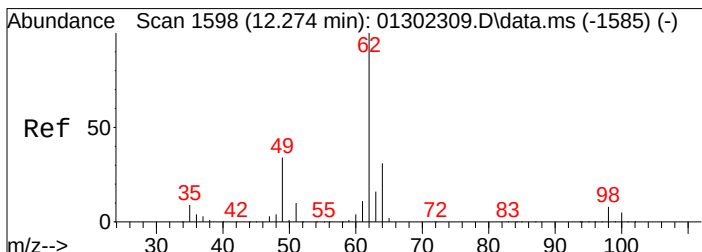
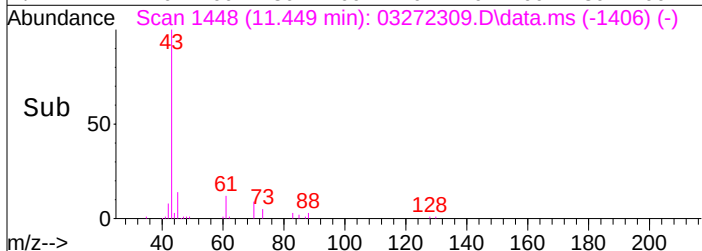
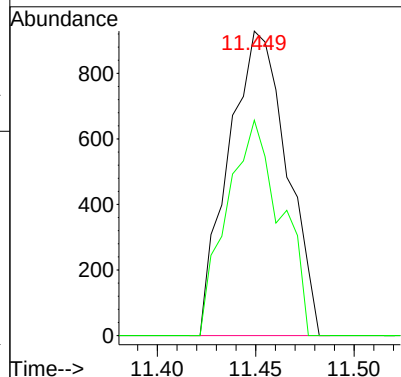
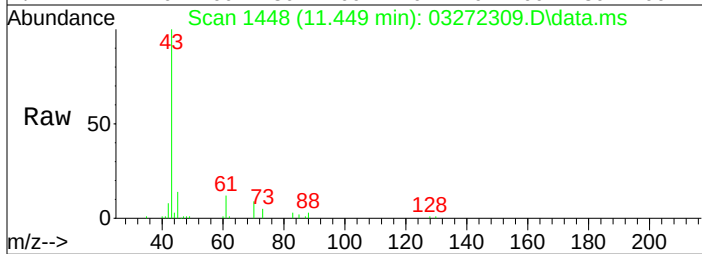
Tgt Ion: 57 Resp: 5522
Ion Ratio Lower Upper
57 100
56 49.7 39.9 59.9
86 15.5 12.3 18.5





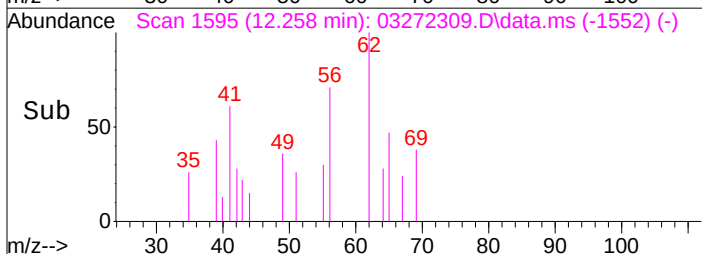
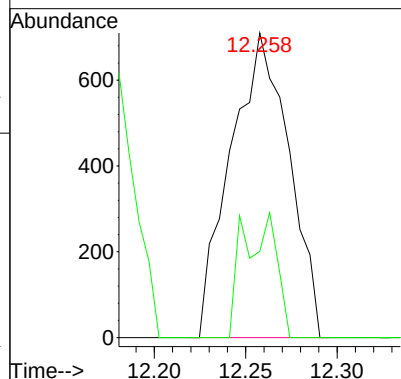
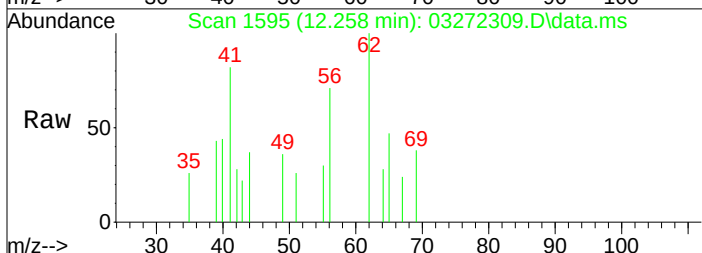
#32
Chloroform
Concen: 0.07 ng
RT: 11.45 min Scan# 1448
Delta R.T. -0.016 min
Lab File: 03272309.D
Acq: 27 Mar 2023 9:29

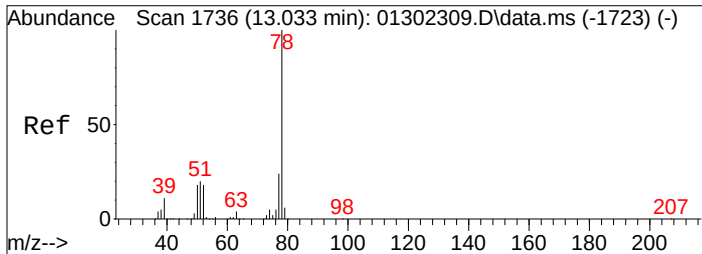
Tgt Ion: 83 Resp: 1912
Ion Ratio Lower Upper
83 100
85 65.7 45.5 85.5



#36
1,2-Dichloroethane
Concen: 0.07 ng
RT: 12.26 min Scan# 1595
Delta R.T. -0.011 min
Lab File: 03272309.D
Acq: 27 Mar 2023 9:29

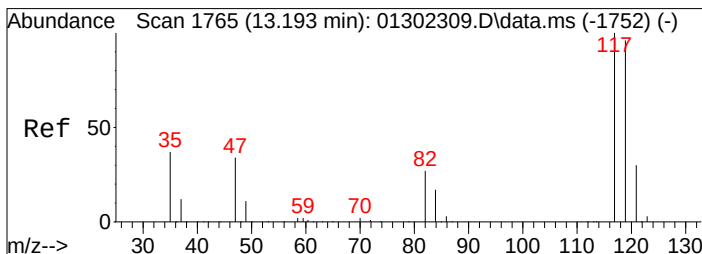
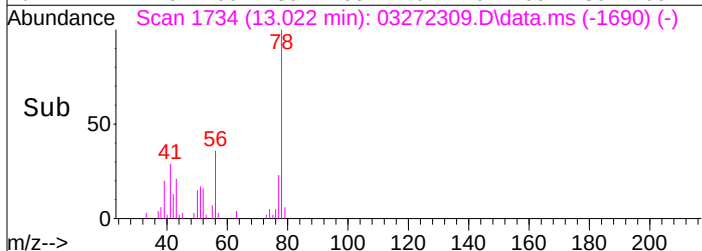
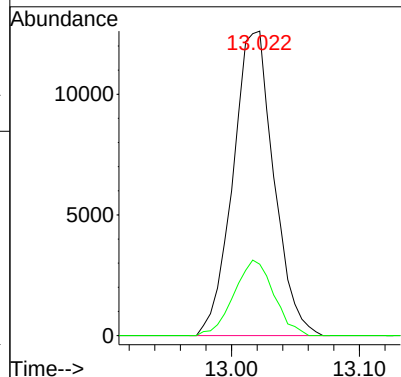
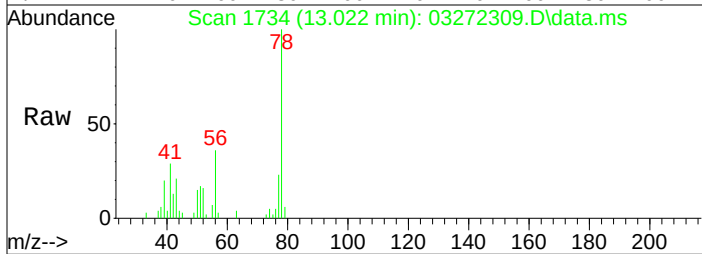
Tgt Ion: 62 Resp: 1572
Ion Ratio Lower Upper
62 100
64 23.3 12.5 52.5





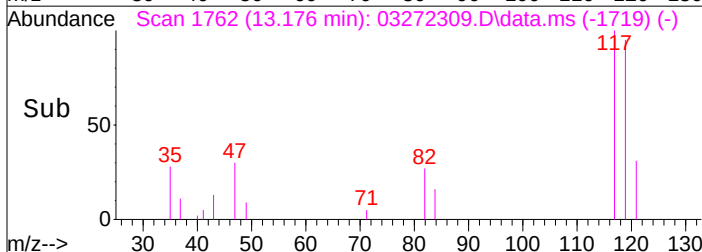
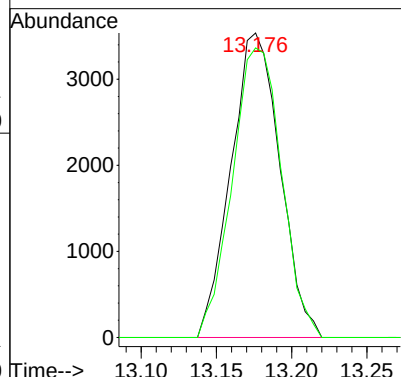
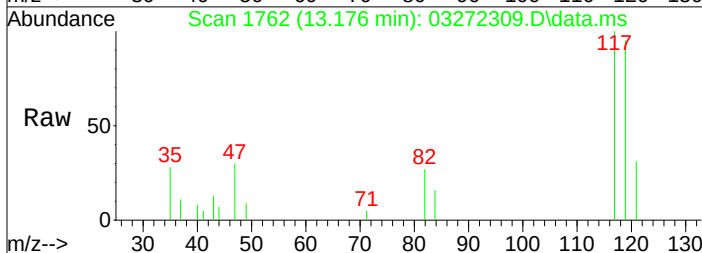
#41
Benzene
Concen: 0.42 ng
RT: 13.02 min Scan# 1734
Delta R.T. -0.005 min
Lab File: 03272309.D
Acq: 27 Mar 2023 9:29

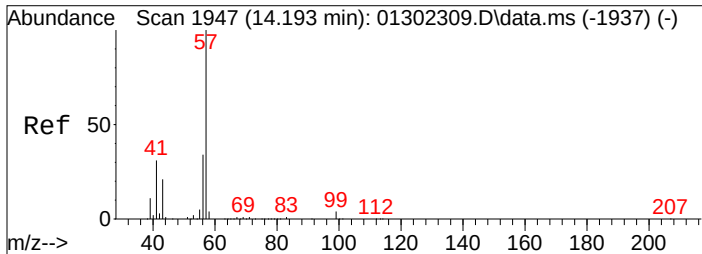
Tgt Ion: 78 Resp: 28045
Ion Ratio Lower Upper
78 100
77 24.2 3.3 43.3



#42
Carbon Tetrachloride
Concen: 0.37 ng
RT: 13.18 min Scan# 1762
Delta R.T. -0.011 min
Lab File: 03272309.D
Acq: 27 Mar 2023 9:29

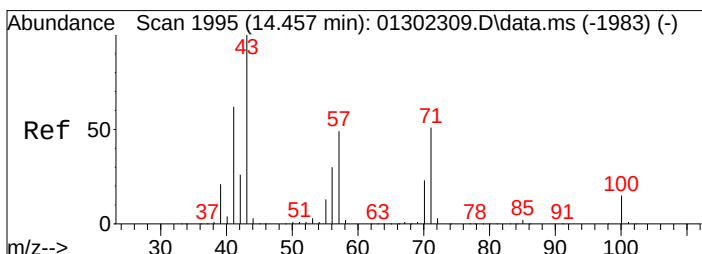
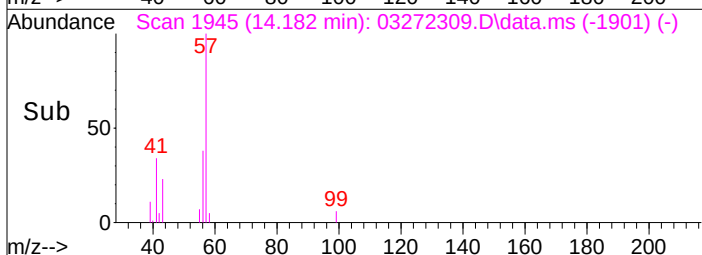
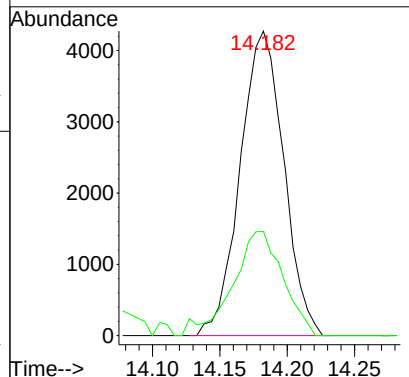
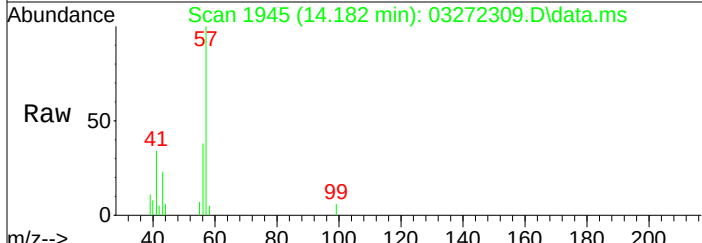
Tgt Ion: 117 Resp: 8003
Ion Ratio Lower Upper
117 100
119 95.6 76.2 116.2





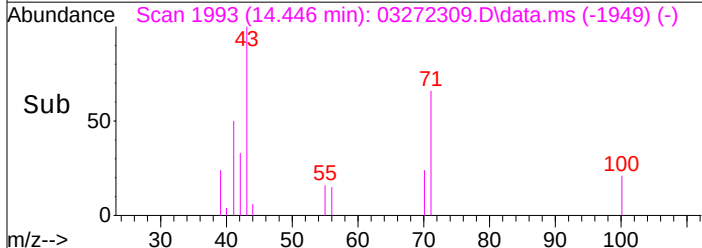
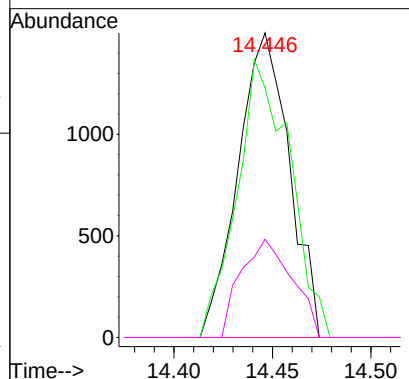
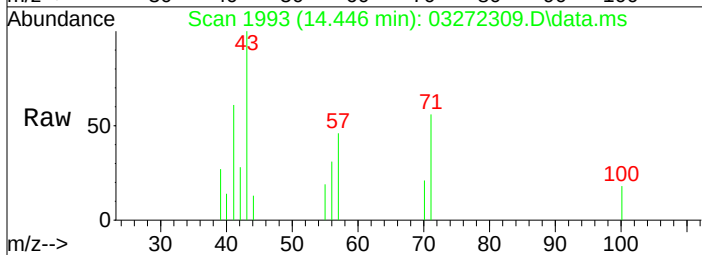
#49
 2,2,4-Trimethylpentane (Isooctane)
 Concen: 0.11 ng
 RT: 14.18 min Scan# 1945
 Delta R.T. -0.005 min
 Lab File: 03272309.D
 Acq: 27 Mar 2023 9:29

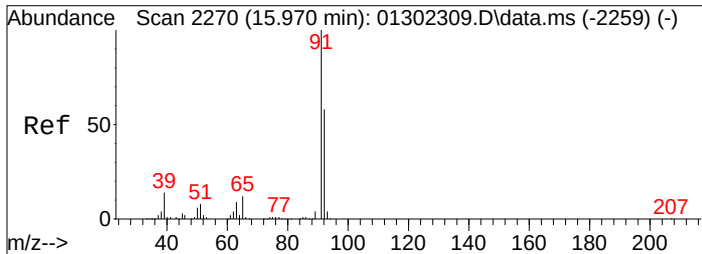
Tgt Ion:	57	Resp:	9621
Ion Ratio		Lower	Upper
57	100		
41	39.4	5.8	45.8



#51
 n-Heptane
 Concen: 0.14 ng
 RT: 14.45 min Scan# 1993
 Delta R.T. -0.005 min
 Lab File: 03272309.D
 Acq: 27 Mar 2023 9:29

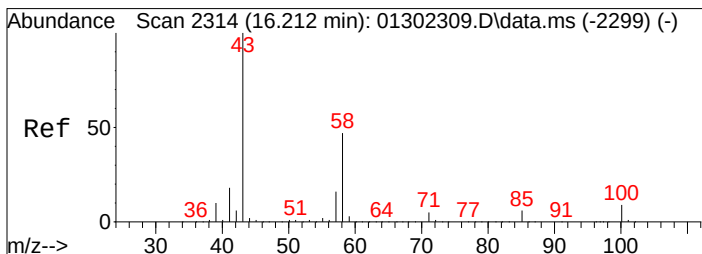
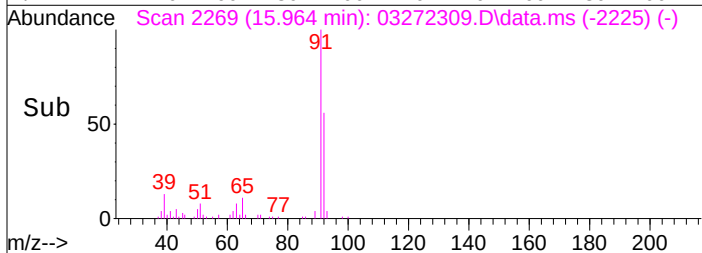
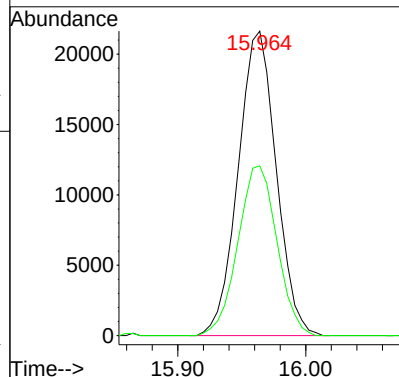
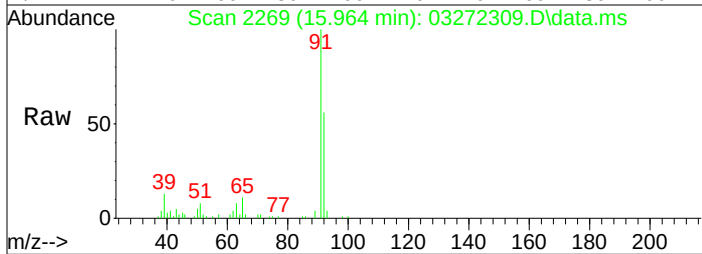
Tgt Ion:	71	Resp:	2715
Ion Ratio		Lower	Upper
71	100		
57	94.5	81.4	121.4
100	32.3	11.8	51.8





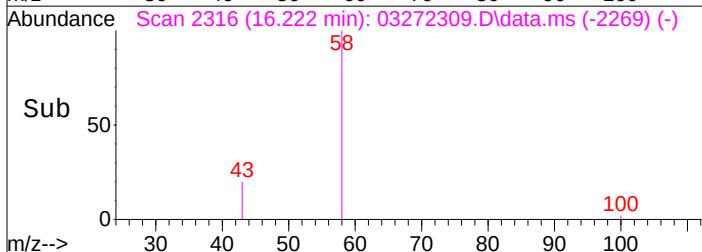
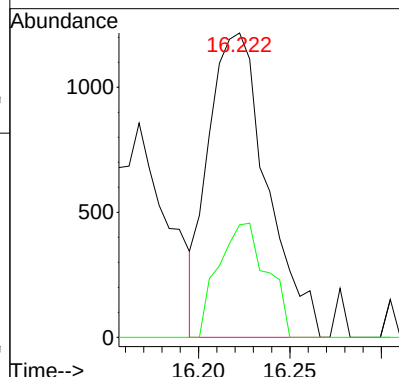
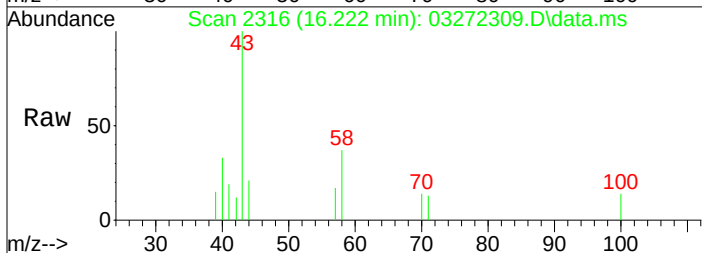
#58
Toluene
Concen: 0.58 ng
RT: 15.96 min Scan# 2269
Delta R.T. -0.005 min
Lab File: 03272309.D
Acq: 27 Mar 2023 9:29

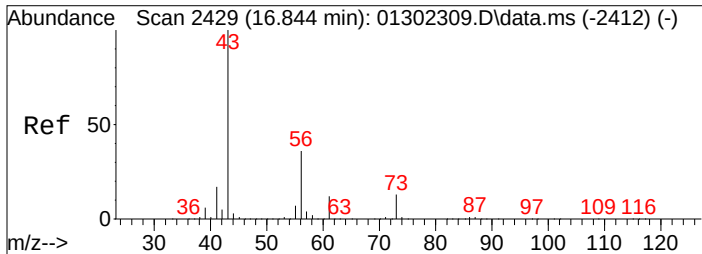
Tgt Ion: 91 Resp: 44821
Ion Ratio Lower Upper
91 100
92 57.3 39.8 79.8



#59
2-Hexanone
Concen: 0.07 ng
RT: 16.22 min Scan# 2316
Delta R.T. 0.011 min
Lab File: 03272309.D
Acq: 27 Mar 2023 9:29

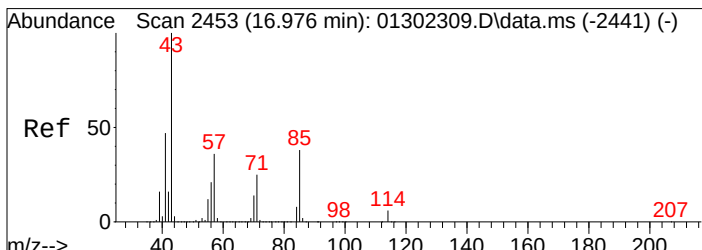
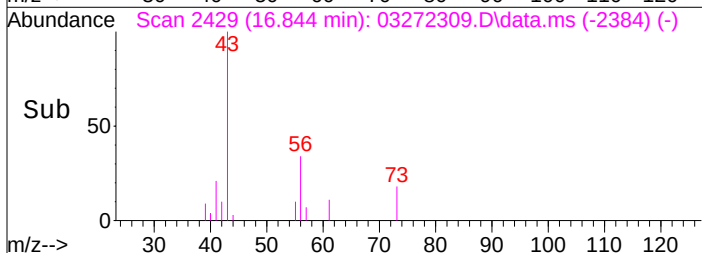
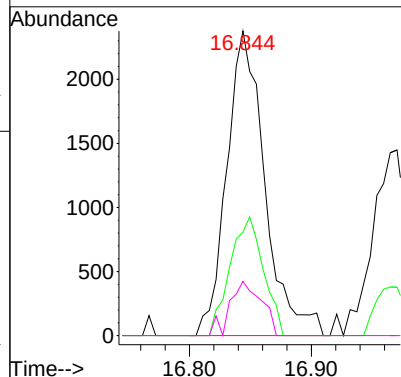
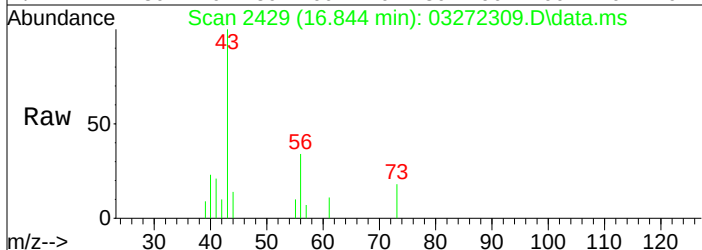
Tgt Ion: 43 Resp: 2703
Ion Ratio Lower Upper
43 100
58 31.2 32.3 72.3#





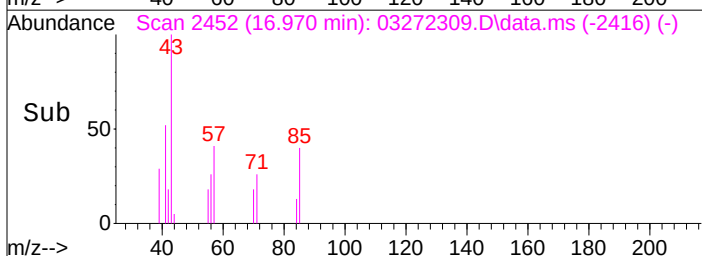
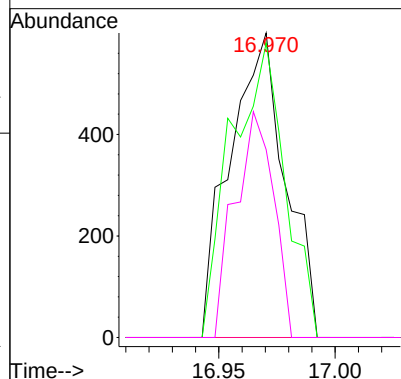
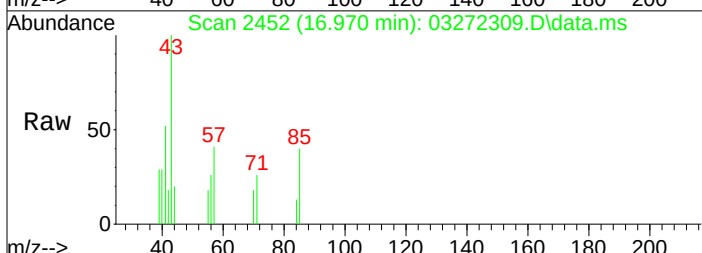
#62
 n-Butyl Acetate
 Concen: 0.11 ng
 RT: 16.84 min Scan# 2429
 Delta R.T. -0.000 min
 Lab File: 03272309.D
 Acq: 27 Mar 2023 9:29

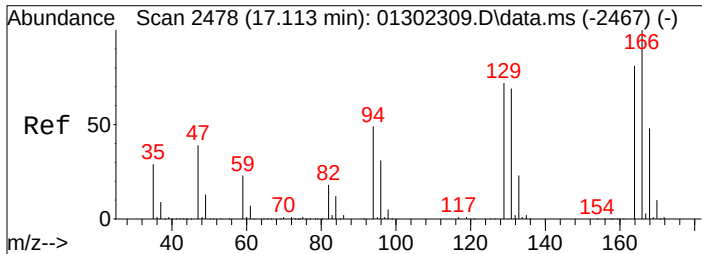
Tgt Ion:	43	Resp:	5169
Ion Ratio		Lower	Upper
43	100		
56	34.1	21.0	61.0
73	14.8	0.0	34.3



#63
 n-Octane
 Concen: 0.05 ng
 RT: 16.97 min Scan# 2452
 Delta R.T. 0.000 min
 Lab File: 03272309.D
 Acq: 27 Mar 2023 9:29

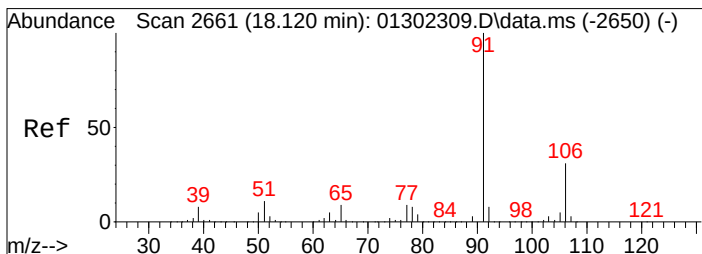
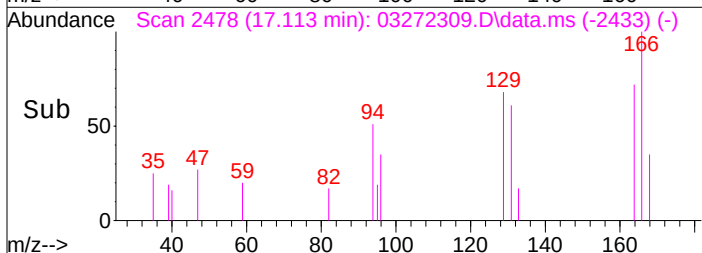
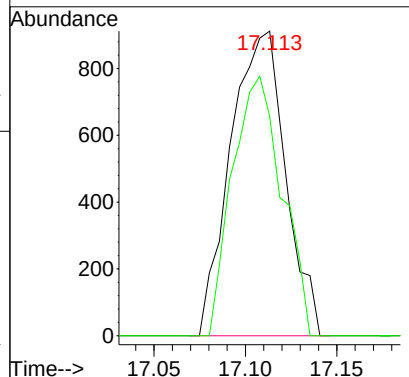
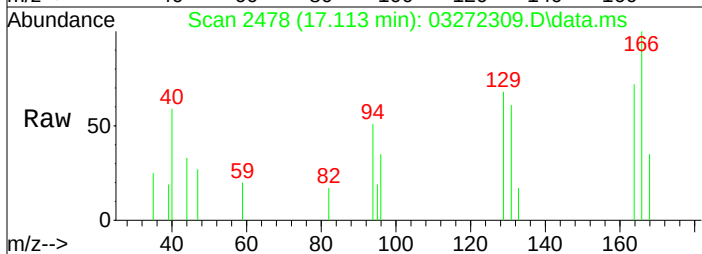
Tgt Ion:	57	Resp:	1001
Ion Ratio		Lower	Upper
57	100		
85	93.4	81.4	122.2
71	51.6	51.7	77.5#





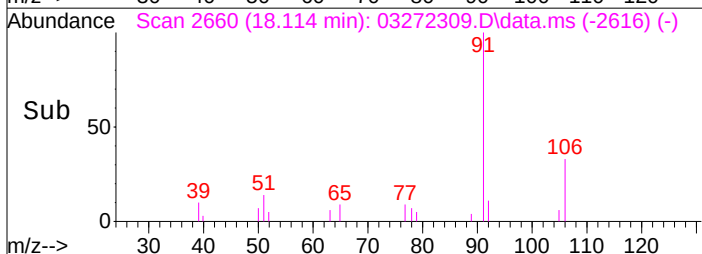
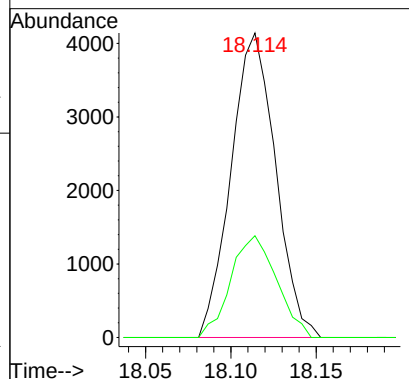
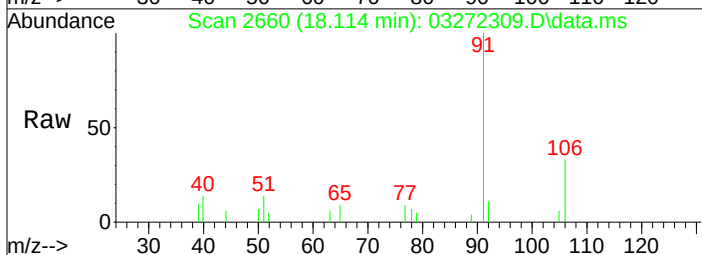
#64
Tetrachloroethene
Concen: 0.10 ng
RT: 17.11 min Scan# 2478
Delta R.T. 0.000 min
Lab File: 03272309.D
Acq: 27 Mar 2023 9:29

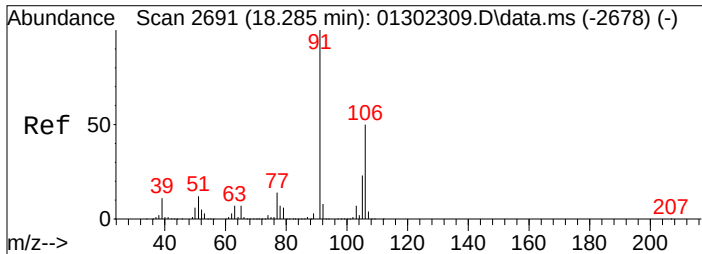
Tgt Ion: 166 Resp: 1907
Ion Ratio Lower Upper
166 100
164 77.0 58.7 98.7



#66
Ethylbenzene
Concen: 0.09 ng
RT: 18.11 min Scan# 2660
Delta R.T. -0.005 min
Lab File: 03272309.D
Acq: 27 Mar 2023 9:29

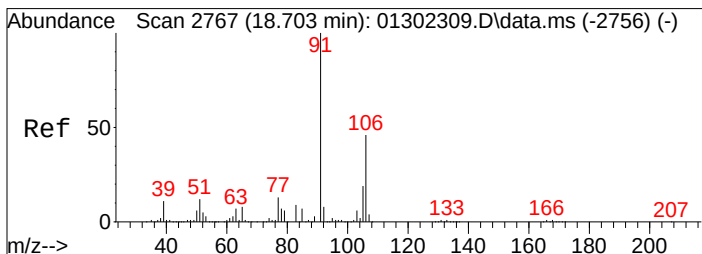
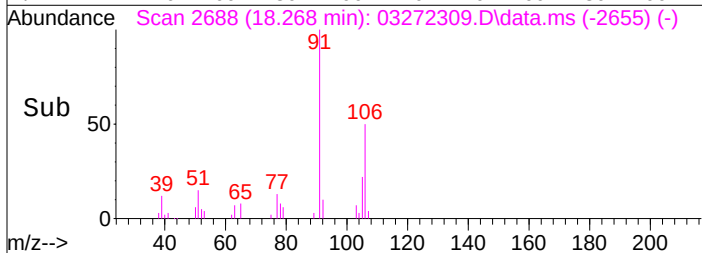
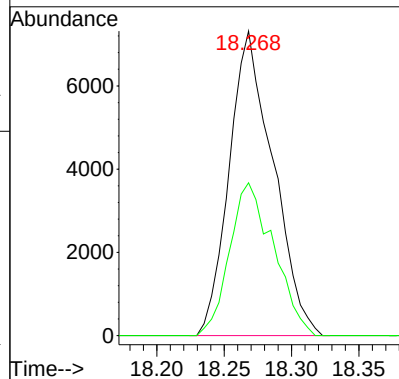
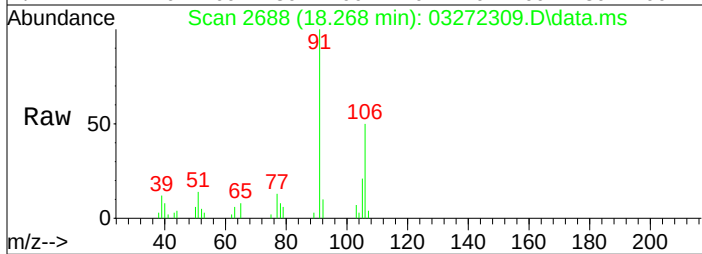
Tgt Ion: 91 Resp: 7511
Ion Ratio Lower Upper
91 100
106 34.4 11.5 51.5





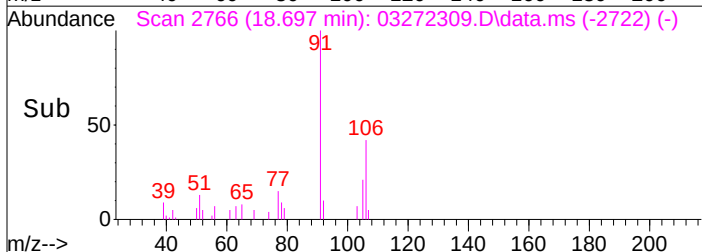
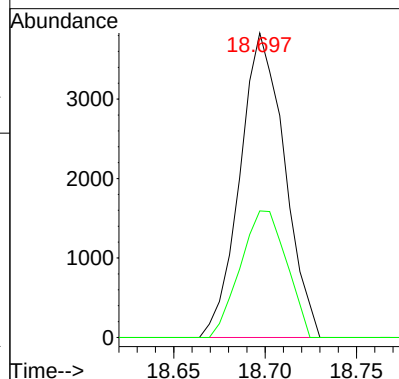
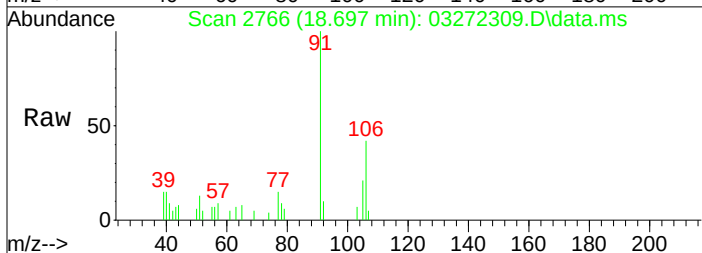
#67
m- & p-Xylenes
Concen: 0.24 ng
RT: 18.27 min Scan# 2688
Delta R.T. -0.016 min
Lab File: 03272309.D
Acq: 27 Mar 2023 9:29

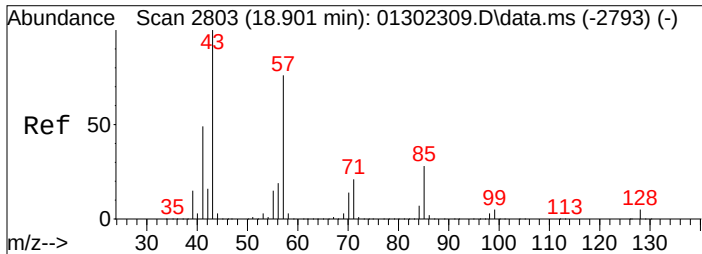
Tgt Ion: 91 Resp: 16578
Ion Ratio Lower Upper
91 100
106 50.5 29.2 69.2



#70
o-Xylene
Concen: 0.10 ng
RT: 18.70 min Scan# 2766
Delta R.T. -0.005 min
Lab File: 03272309.D
Acq: 27 Mar 2023 9:29

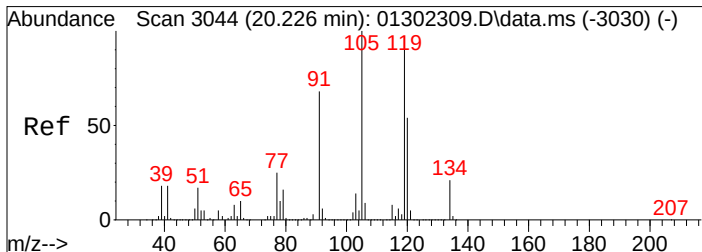
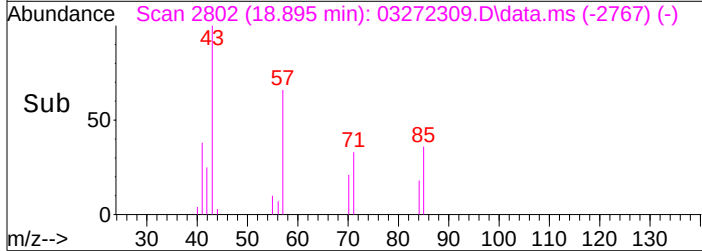
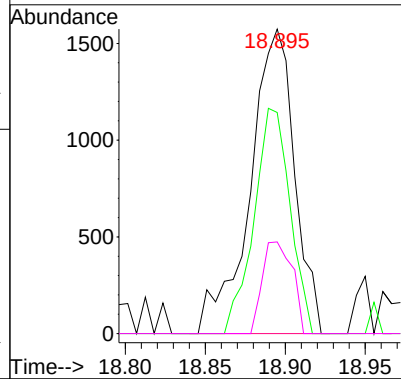
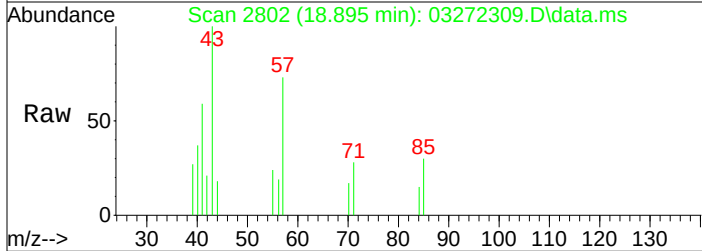
Tgt Ion: 91 Resp: 6513
Ion Ratio Lower Upper
91 100
106 42.9 27.3 67.3





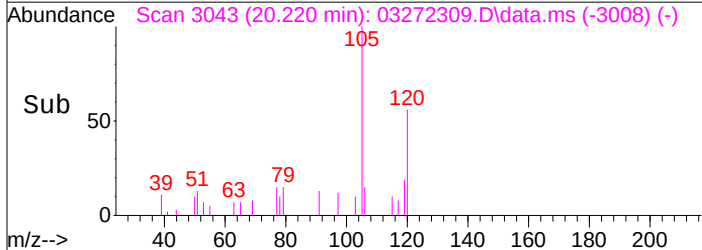
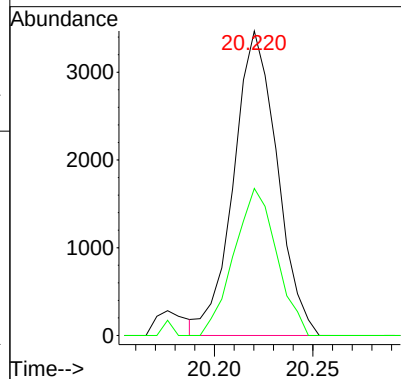
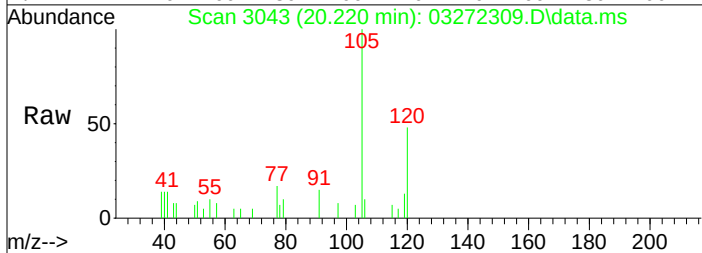
#71
n-Nonane
Concen: 0.06 ng
RT: 18.89 min Scan# 2802
Delta R.T. -0.005 min
Lab File: 03272309.D
Acq: 27 Mar 2023 9:29

Tgt Ion:	43	Resp:	3062
Ion Ratio		Lower	Upper
43	100		
57	59.7	64.6	104.6#
85	20.2	9.6	49.6



#82
1,2,4-Trimethylbenzene
Concen: 0.08 ng
RT: 20.22 min Scan# 3043
Delta R.T. -0.005 min
Lab File: 03272309.D
Acq: 27 Mar 2023 9:29

Tgt Ion:	105	Resp:	5329
Ion Ratio		Lower	Upper
105	100		
120	47.3	37.2	77.2



Data File : I:\MS16\DATA\2023_03\27\03272309.D
 Acq On : 27 Mar 2023 9:29
 Sample : P2301250-057 (1000mL)
 Misc : S35-01312301

Vial: 5
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 12:10:58 2023
 Quant Method : I:\MS16\METHODS\C16122022.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Dec 21 05:02:49 2022
 Response via : Initial Calibration
 DataAcq Meth: T015B.M

USA 3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.28	130	204665	12.500	ng	-0.02
16) 1,4-Difluorobenzene (C_2)	13.41	114	946813	12.500	ng	-0.01
19) Chlorobenzene-d5 (C_3)	17.72	54	199840	12.500	ng	0.00

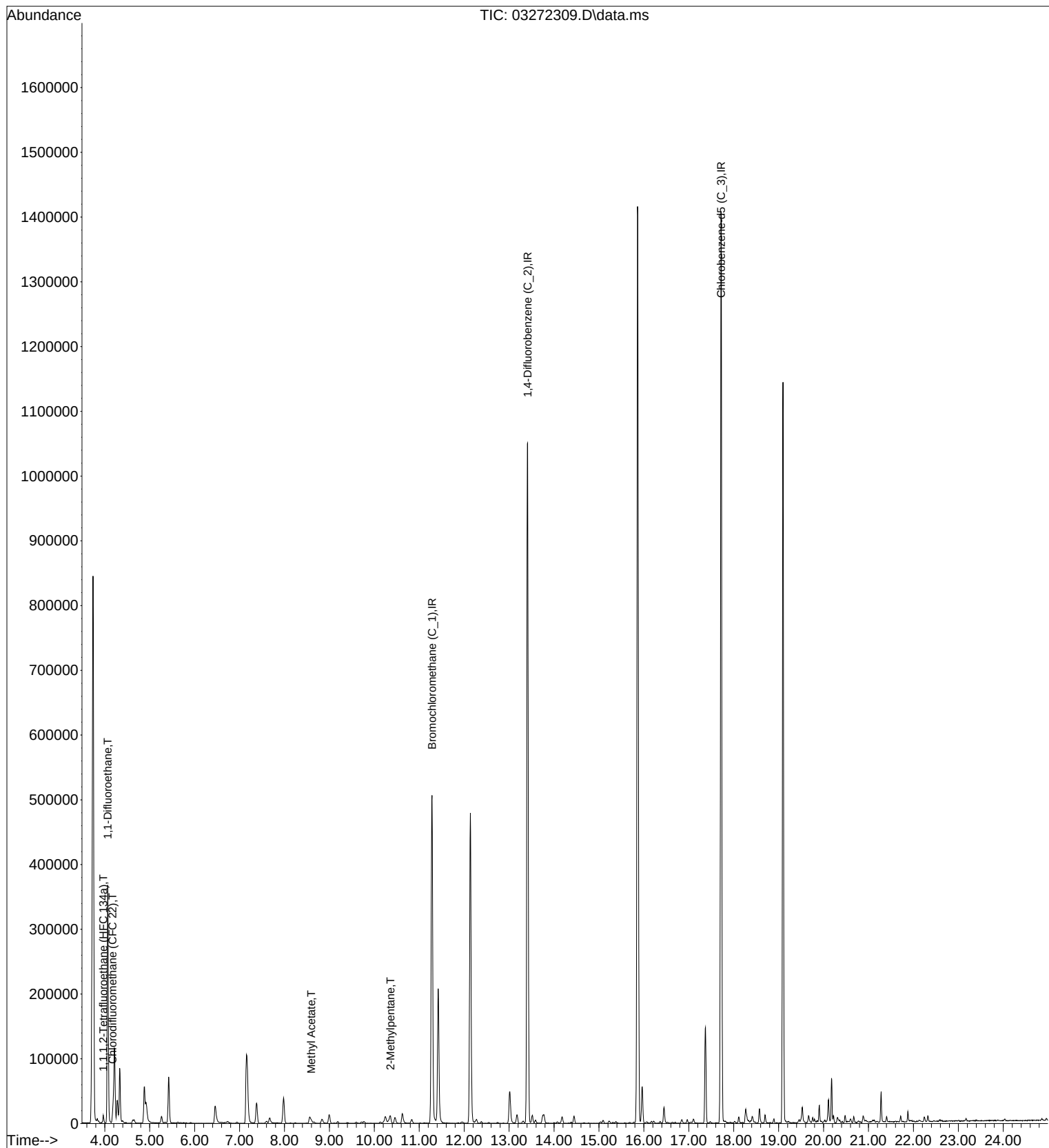
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.87	85	790	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.97	83	6894	0.425	ng	90
4) 1,1-Difluoroethane	4.06	65	156720	10.104	ng	95
5) Chlorodifluoromethane ...	4.17	67	3022	0.597	ng	90
6) 1-Chloro-1,1-Difluoroe...	4.65	65	3085	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	8.60	43	7585	0.150	ng	# 91
12) 2-Methylpentane	10.36	71	2861	0.142	ng	# 10
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	13.18	84	1417	N.D.		
17) 2,3-Dimethylpentane	13.59	56	2004	N.D.		
18) Dibromomethane	13.83	174	123	N.D.		
20) Methyl Cyclohexane	15.10	55	1561	N.D.		
21) 1,3-Dichloropropane	0.00	76	0	N.D.	d	
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	0.00	91	0	N.D.		
24) 1,2,3-Trichloropropane	18.69	75	121	N.D.		
25) Bromobenzene	19.21	77	50	N.D.		
26) 2-Chlorotoluene	19.66	91	2120	N.D.		
27) 4-Chlorotoluene	19.75	91	657	N.D.		
28) Indane	20.77	117	509	N.D.		
29) Indene	20.77	115	56	N.D.		
30) 1,2,4,5-Tetramethylben...	21.61	119	275	N.D.		
31) 1,2,3,4-Tetramethylben...	21.65	119	548	N.D.		
32) 1,2,3,5-Tetramethylben...	22.00	119	381	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\27\03272309.D
Acq On : 27 Mar 2023 9:29
Sample : P2301250-057 (1000mL)
Misc : S35-01312301

Vial: 5
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 12:10:58 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: IA-031523BR

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-058

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01482

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.11 Final Pressure (psig): 3.71

Container Dilution Factor: 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.9	0.66	0.11	0.58	0.13	0.022	
74-87-3	Chloromethane	0.29	0.26	0.11	0.14	0.13	0.052	V
75-01-4	Vinyl Chloride	ND	0.14	0.071	ND	0.053	0.028	
74-83-9	Bromomethane	ND	0.26	0.092	ND	0.067	0.024	
75-00-3	Chloroethane	ND	0.26	0.082	ND	0.099	0.031	
67-64-1	Acetone	3.3	6.5	1.5	1.4	2.8	0.63	J
75-69-4	Trichlorofluoromethane	1.4	0.64	0.10	0.25	0.11	0.018	
75-35-4	1,1-Dichloroethene	ND	0.14	0.092	ND	0.034	0.023	
75-09-2	Methylene Chloride	0.43	0.66	0.19	0.12	0.19	0.054	J
76-13-1	Trichlorotrifluoroethane	0.53	0.67	0.094	0.069	0.087	0.012	J
75-15-0	Carbon Disulfide	ND	1.3	0.20	ND	0.43	0.064	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	0.092	ND	0.034	0.023	
75-34-3	1,1-Dichloroethane	ND	0.14	0.097	ND	0.034	0.024	
1634-04-4	Methyl tert-Butyl Ether	ND	0.67	0.078	ND	0.19	0.022	
78-93-3	2-Butanone (MEK)	0.60	1.3	0.14	0.20	0.44	0.046	J
156-59-2	cis-1,2-Dichloroethene	ND	0.14	0.093	ND	0.034	0.023	
67-66-3	Chloroform	0.091	0.14	0.088	0.019	0.028	0.018	J
107-06-2	1,2-Dichloroethane	0.088	0.14	0.073	0.022	0.034	0.018	J
71-55-6	1,1,1-Trichloroethane	ND	0.14	0.082	ND	0.025	0.015	
71-43-2	Benzene	0.51	0.14	0.095	0.16	0.043	0.030	
56-23-5	Carbon Tetrachloride	0.47	0.14	0.092	0.074	0.022	0.015	
110-82-7	Cyclohexane	ND	1.3	0.19	ND	0.38	0.054	
78-87-5	1,2-Dichloropropane	ND	0.14	0.082	ND	0.030	0.018	
75-27-4	Bromodichloromethane	ND	0.14	0.095	ND	0.020	0.014	
79-01-6	Trichloroethene	0.21	0.14	0.089	0.040	0.025	0.017	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: IA-031523BR

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-058

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01482

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.11 Final Pressure (psig): 3.71

Container Dilution Factor: 1.24

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.67	0.10	ND	0.15	0.023	
108-10-1	4-Methyl-2-pentanone	ND	1.4	0.091	ND	0.33	0.022	
10061-02-6	trans-1,3-Dichloropropene	ND	0.63	0.14	ND	0.14	0.030	
79-00-5	1,1,2-Trichloroethane	ND	0.14	0.067	ND	0.025	0.012	
108-88-3	Toluene	0.60	0.66	0.081	0.16	0.17	0.021	J
591-78-6	2-Hexanone	ND	1.4	0.082	ND	0.33	0.020	
124-48-1	Dibromochloromethane	ND	0.14	0.087	ND	0.016	0.010	
106-93-4	1,2-Dibromoethane	ND	0.14	0.077	ND	0.018	0.010	
127-18-4	Tetrachloroethene	0.097	0.14	0.086	0.014	0.020	0.013	J
108-90-7	Chlorobenzene	ND	0.66	0.088	ND	0.14	0.019	
100-41-4	Ethylbenzene	0.097	0.66	0.093	0.022	0.15	0.021	J
179601-23-1	m,p-Xylenes	0.27	1.4	0.17	0.062	0.31	0.040	J
75-25-2	Bromoform	ND	0.67	0.14	ND	0.065	0.013	
100-42-5	Styrene	ND	0.66	0.11	ND	0.15	0.025	
95-47-6	o-Xylene	0.11	0.66	0.095	0.025	0.15	0.022	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	0.092	ND	0.020	0.013	
98-82-8	Cumene	ND	0.67	0.095	ND	0.14	0.019	
541-73-1	1,3-Dichlorobenzene	ND	0.66	0.099	ND	0.11	0.017	
106-46-7	1,4-Dichlorobenzene	ND	0.66	0.10	ND	0.11	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.67	0.098	ND	0.11	0.016	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.4	0.12	ND	0.14	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	1.4	0.16	ND	0.18	0.022	
79-20-9	Methyl Acetate	ND	0.62	0.30	ND	0.20	0.098	X
108-87-2	Methylcyclohexane	ND	0.62	0.32	ND	0.15	0.080	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS16\DATA\2023_03\27\03272310.D
 Acq On : 27 Mar 2023 10:02
 Sample : P2301250-058 (1000mL)
 Misc : S35-01312301

Vial: 6
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 11:54:58 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	200570	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	934031	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.72	54	198017	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	358143	13.427	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	107.44%	
57) Toluene-d8 (SS2)	15.86	98	1056022	12.181	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	97.44%	
73) Bromofluorobenzene (SS3)	19.10	174	314116	11.617	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	92.96%	

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	4.34	85	68937	2.299	ng	100
4) Chloromethane	4.63	50	6655	0.237	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	1605	0.096	ng	86
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.35	54	455	N.D.		
8) Bromomethane	5.77	94	256	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.46	45	36570	1.895	ng	94
11) Acetonitrile	6.74	41	2952	0.061	ng	73
12) Acrolein	6.93	56	1309	0.096	ng	88
13) Acetone	7.15	58	39322	2.664	ng	# 77
14) Trichlorofluoromethane	7.39	101	31266	1.131	ng	98
15) 2-Propanol (Isopropanol)	7.68	45	13709	0.267	ng	88
16) Acrylonitrile	7.97	53	572	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	8.61	59	383	N.D.		
19) Methylene Chloride	8.57	84	5666	0.347	ng	93
20) 3-Chloro-1-propene (Al...	8.66	41	407	N.D.		
21) Trichlorotrifluoroethane	9.00	151	5878	0.427	ng	92
22) Carbon Disulfide	8.85	76	1277	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	10.62	72	5193	0.485	ng	98
28) cis-1,2-Dichloroethene	11.10	61	1358	0.055	ng	92
29) Diisopropyl Ether	11.43	87	670	N.D.		
30) Ethyl Acetate	11.42	61	29557	4.223	ng	97
31) n-Hexane	11.41	57	5098	0.146	ng	96
32) Chloroform	11.44	83	1950	0.073	ng	97
34) Tetrahydrofuran (THF)	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	12.25	62	1542	0.071	ng	86
38) 1,1,1-Trichloroethane	12.53	97	167	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.02	78	27321	0.415	ng	100
42) Carbon Tetrachloride	13.18	117	8011	0.375	ng	99
43) Cyclohexane	13.31	84	1490	0.054	ng	93
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	13.87	63	188	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	14.12	130	3103	0.173	ng	98
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	14.18	57	9554	0.108	ng	74
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS16\DATA\2023_03\27\03272310.D
 Acq On : 27 Mar 2023 10:02
 Sample : P2301250-058 (1000mL)
 Misc : S35-01312301

Vial: 6
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 11:54:58 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

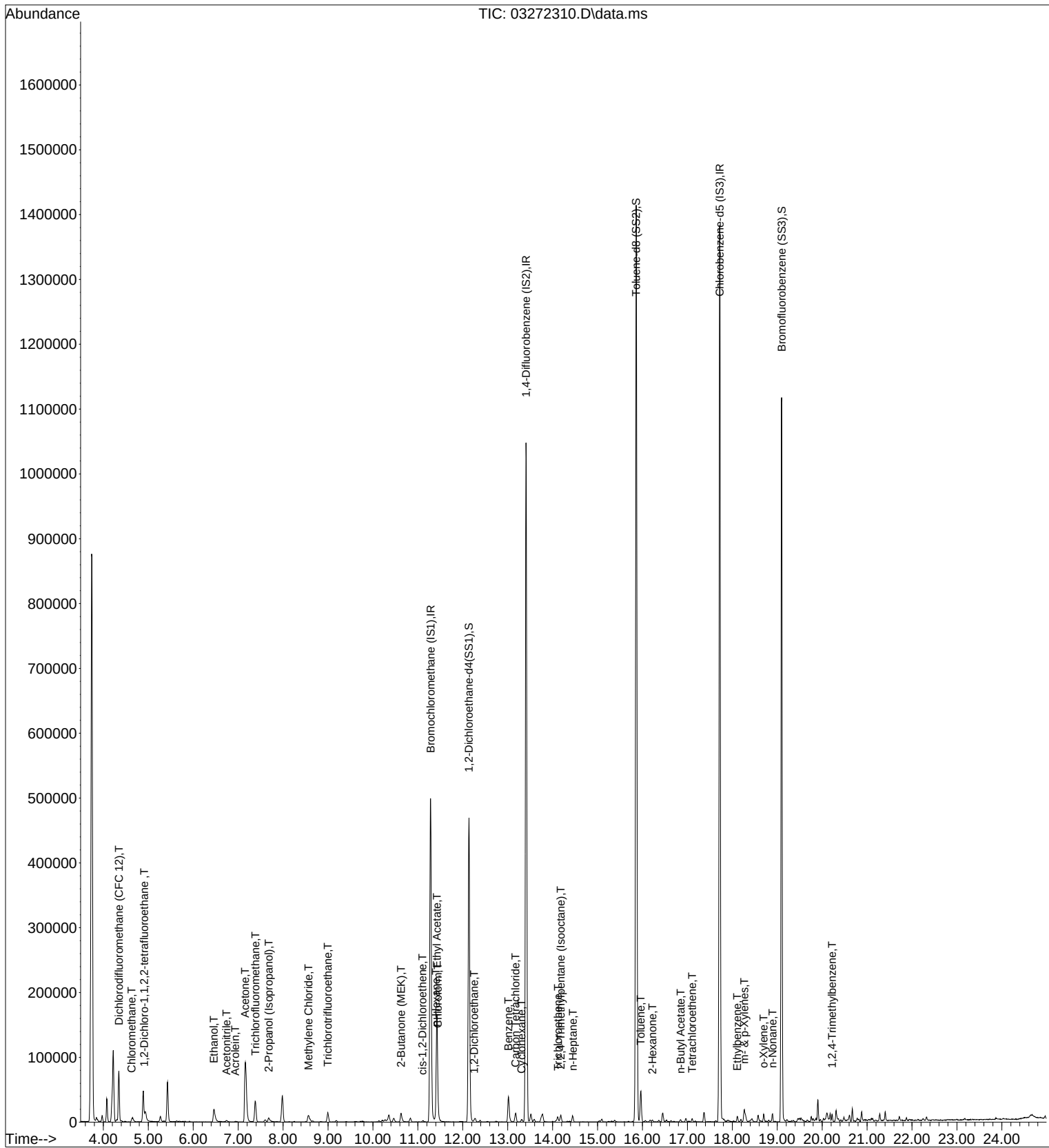
DataAcq Meth:T015B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.45	71	2393	0.124	ng	89
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	15.03	58	340	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.96	91	37003	0.487	ng	98
59) 2-Hexanone	16.22	43	2599	0.065	ng	# 71
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.85	43	2997	0.065	ng	93
63) n-Octane	16.97	57	971	N.D.		
64) Tetrachloroethene	17.11	166	1517	0.078	ng	96
65) Chlorobenzene	17.76	112	201	N.D.		
66) Ethylbenzene	18.11	91	6688	0.078	ng	99
67) m- & p-Xylenes	18.27	91	14766	0.218	ng	98
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.60	104	736	N.D.		
70) o-Xylene	18.70	91	5936	0.089	ng	97
71) n-Nonane	18.90	43	5002	0.105	ng	89
72) 1,1,2,2-Tetrachloroethane	18.75	83	110	N.D.		
74) Cumene	19.22	105	912	N.D.		
75) alpha-Pinene	19.57	93	722	N.D.		
76) n-Propylbenzene	19.67	91	1985	N.D.		
77) 3-Ethyltoluene	20.22	105	5099	No Calib	#	
78) 4-Ethyltoluene	19.80	105	1822	N.D.		
79) 1,3,5-Trimethylbenzene	19.86	105	1553	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.22	105	5099	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.22	105	5099	0.075	ng	83
83) n-Decane	20.31	58	115	No Calib	#	
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	20.41	146	105	N.D.		
86) 1,4-Dichlorobenzene	20.41	146	105	N.D.		
87) sec-Butylbenzene	20.46	105	375	N.D.		
88) 4-Isopropyltoluene (p-...	20.59	119	1269	N.D.		
89) 1,2,3-Trimethylbenzene	20.22	105	5099	No Calib	#	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	20.72	68	427	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	22.34	128	1372	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	18.19	55	844	No Calib	#	
99) tert-Butylbenzene	20.22	119	839	N.D.		
100) n-Butylbenzene	20.96	91	836	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Vial: 6
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 11:54:58 2023



Data File : I:\MS16\DATA\2023_03\27\03272310.D
 Acq On : 27 Mar 2023 10:02
 Sample : P2301250-058 (1000mL)
 Misc : S35-01312301

Vial: 6
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 11:54:58 2023
 Quant Method : I:\MS16\METHODS\R16122022.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Dec 21 03:06:38 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15B.M

107 3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	200570	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	934031	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.72	54	198017	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	358143	13.427	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	107.44%
57) Toluene-d8 (SS2)	15.86	98	1056022	12.181	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	97.44%
73) Bromofluorobenzene (SS3)	19.10	174	314116	11.617	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.96%

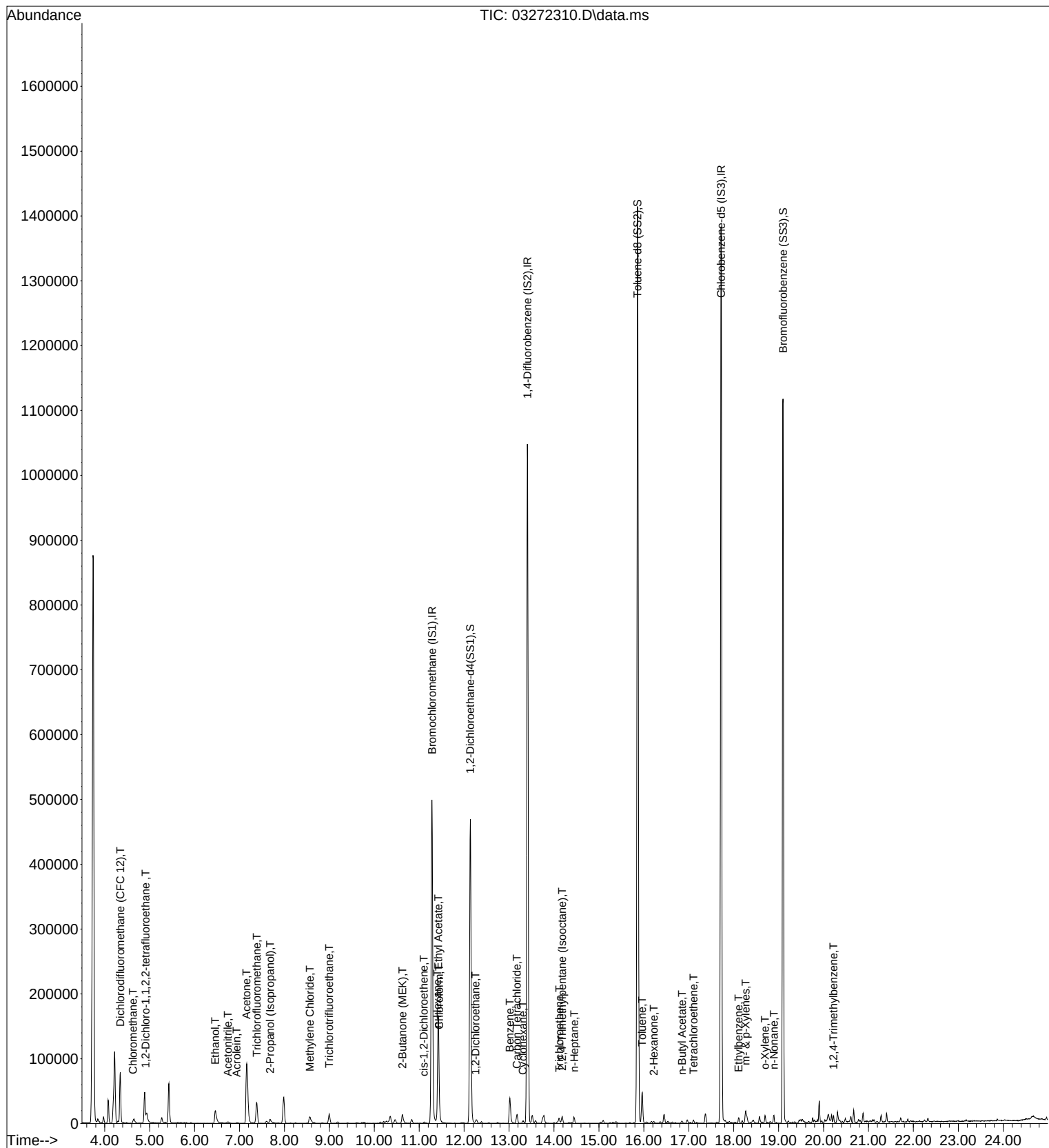
Target Compounds

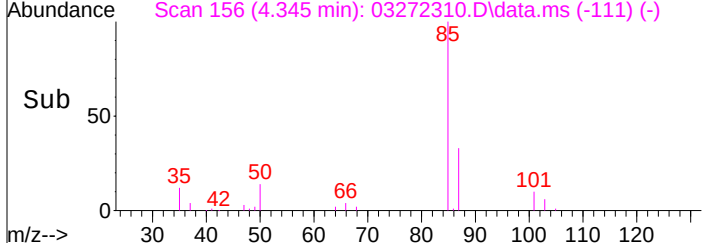
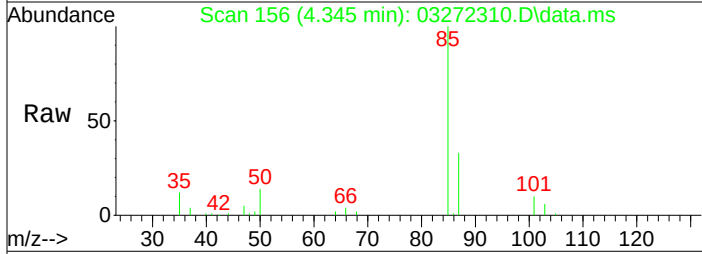
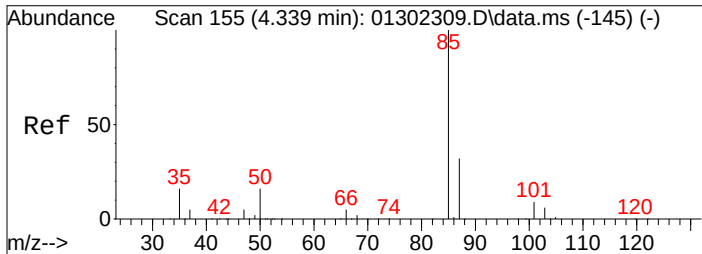
						Qvalue
3) Dichlorodifluoromethan...	4.34	85	68937	2.299	ng	100
4) Chloromethane	4.63	50	6655	0.237	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	1605	0.096	ng	86
10) Ethanol	6.46	45	36570	1.895	ng	94
11) Acetonitrile	6.74	41	2952	0.061	ng	73
12) Acrolein	6.93	56	1309	0.096	ng	88
13) Acetone	7.15	58	39322	2.664	ng	# 77
14) Trichlorofluoromethane	7.39	101	31266	1.131	ng	98
15) 2-Propanol (Isopropanol)	7.68	45	13709	0.267	ng	88
19) Methylene Chloride	8.57	84	5666	0.347	ng	93
21) Trichlorotrifluoroethane	9.00	151	5878	0.427	ng	92
27) 2-Butanone (MEK)	10.62	72	5193	0.485	ng	98
28) cis-1,2-Dichloroethene	11.10	61	1358	0.055	ng	92
30) Ethyl Acetate	11.42	61	29557	4.223	ng	97
31) n-Hexane	11.41	57	5098	0.146	ng	96
32) Chloroform	11.44	83	1950	0.073	ng	97
36) 1,2-Dichloroethane	12.25	62	1542	0.071	ng	86
41) Benzene	13.02	78	27321	0.415	ng	100
42) Carbon Tetrachloride	13.18	117	8011	0.375	ng	99
43) Cyclohexane	13.31	84	1490	0.054	ng	93
47) Trichloroethene	14.12	130	3103	0.173	ng	98
49) 2,2,4-Trimethylpentane...	14.18	57	9554	0.108	ng	74
51) n-Heptane	14.45	71	2393	0.124	ng	89
58) Toluene	15.96	91	37003	0.487	ng	98
59) 2-Hexanone	16.22	43	2599	0.065	ng	# 71
62) n-Butyl Acetate	16.85	43	2997	0.065	ng	93
64) Tetrachloroethene	17.11	166	1517	0.078	ng	96
66) Ethylbenzene	18.11	91	6688	0.078	ng	99
67) m- & p-Xylenes	18.27	91	14766	0.218	ng	98
70) o-Xylene	18.70	91	5936	0.089	ng	97
71) n-Nonane	18.90	43	5002	0.105	ng	89
82) 1,2,4-Trimethylbenzene	20.22	105	5099	0.075	ng	83

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

Vial: 6
Operator: WA
Inst : GCMS-16

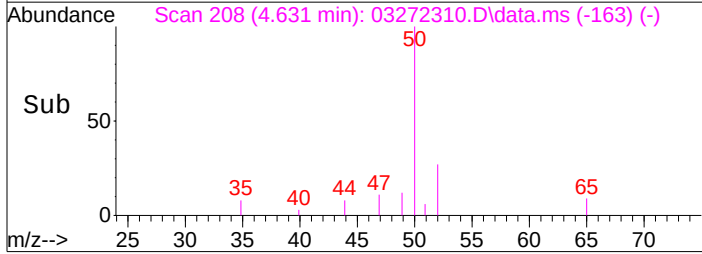
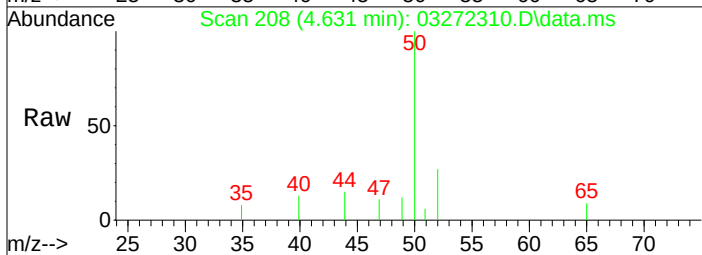
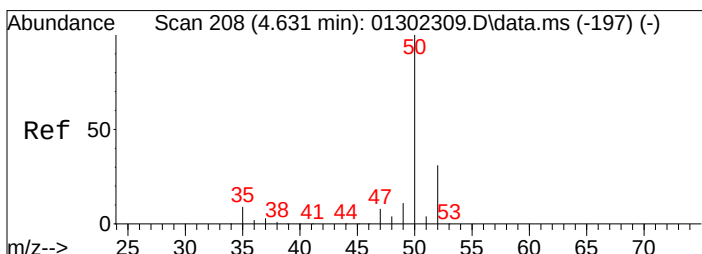
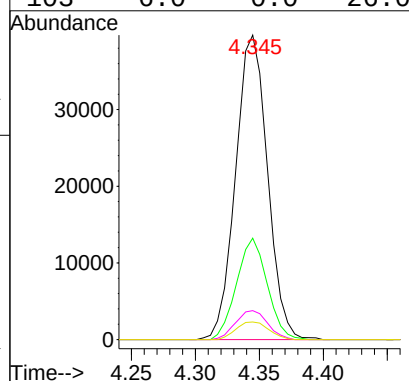
Quant Time: Mar 27 11:54:58 2023





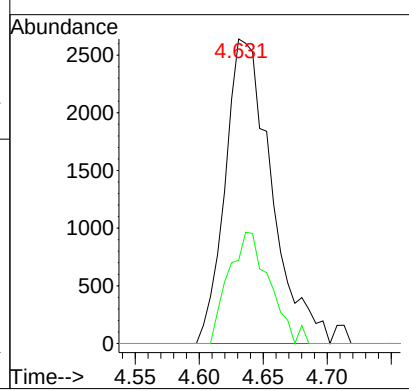
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 2.30 ng
 RT: 4.34 min Scan# 156
 Delta R.T. -0.005 min
 Lab File: 03272310.D
 Acq: 27 Mar 2023 10:02

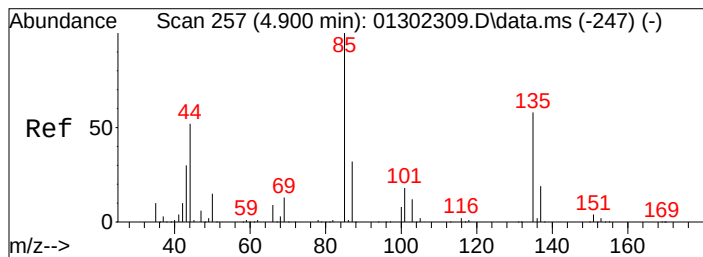
Tgt Ion:	85	Resp:	68937
Ion Ratio		Lower	Upper
85	100		
87	31.9	12.1	52.1
101	9.6	0.0	29.3
103	6.0	0.0	26.0



#4
 Chloromethane
 Concen: 0.24 ng
 RT: 4.63 min Scan# 208
 Delta R.T. -0.005 min
 Lab File: 03272310.D
 Acq: 27 Mar 2023 10:02

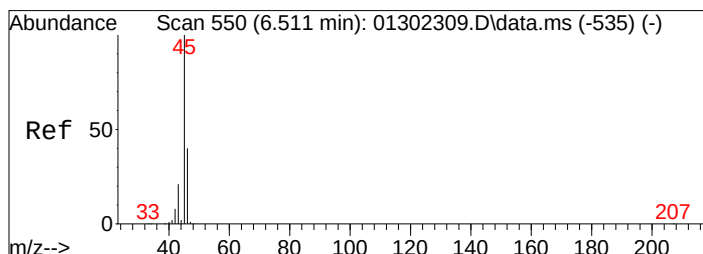
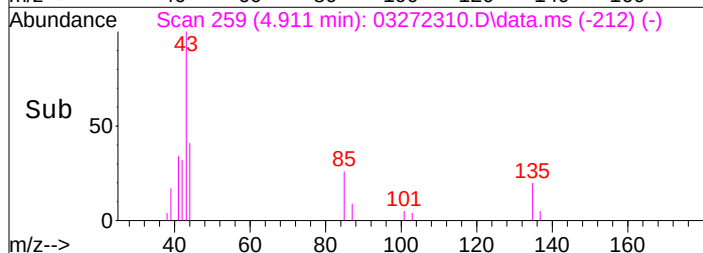
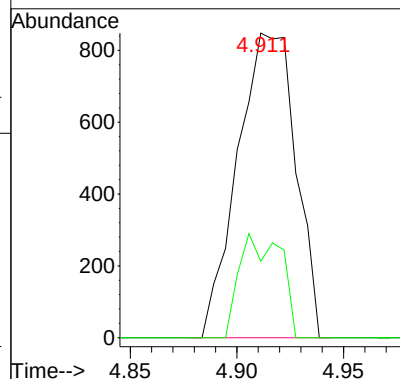
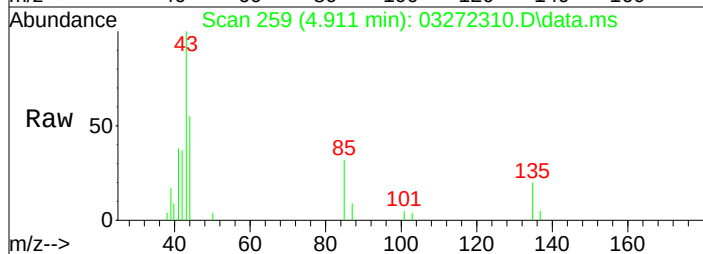
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Ion Ratio		Lower	Upper
50	100		
52	32.2	12.2	52.2





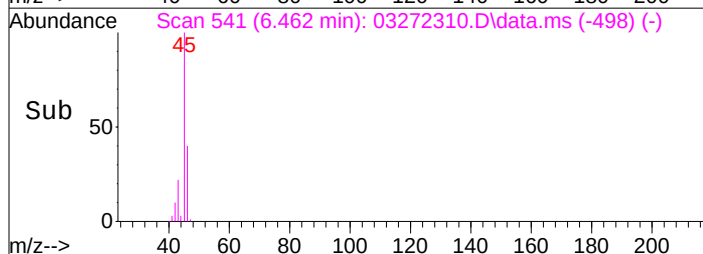
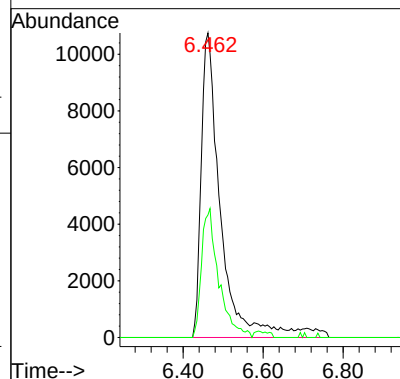
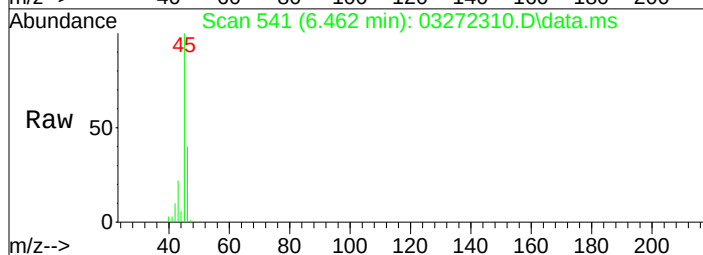
#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.10 ng
 RT: 4.91 min Scan# 259
 Delta R.T. 0.006 min
 Lab File: 03272310.D
 Acq: 27 Mar 2023 10:02

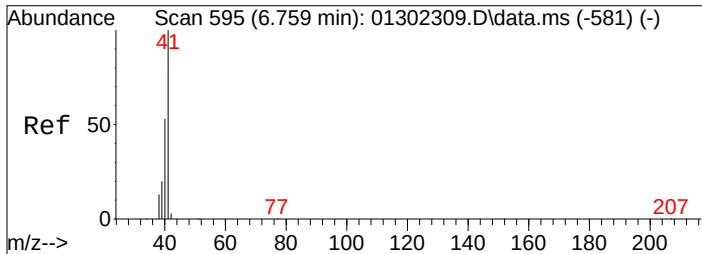
Tgt Ion: 135 Resp: 1605
 Ion Ratio Lower Upper
 135 100
 137 24.4 12.0 52.0



#10
 Ethanol
 Concen: 1.89 ng
 RT: 6.46 min Scan# 541
 Delta R.T. -0.016 min
 Lab File: 03272310.D
 Acq: 27 Mar 2023 10:02

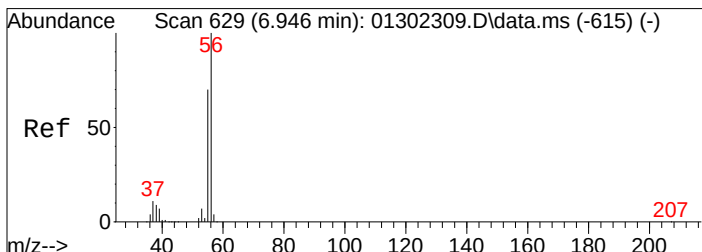
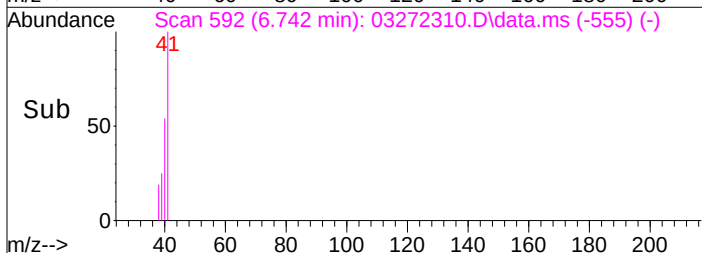
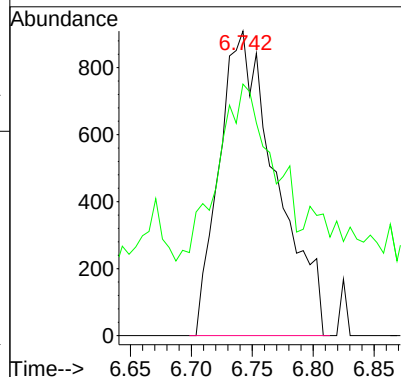
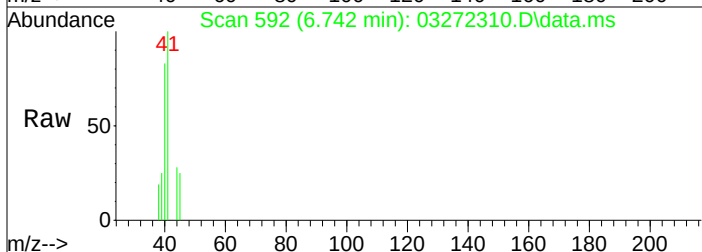
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 Ion Ratio Lower Upper
 45 100
 46 37.1 20.5 60.5





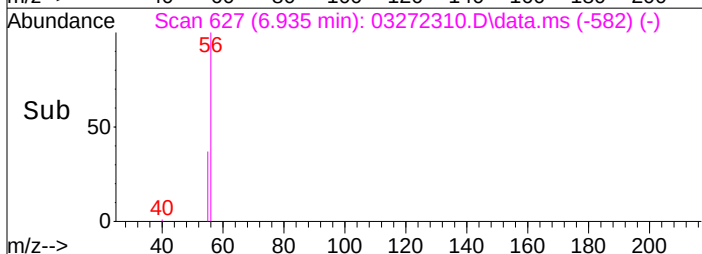
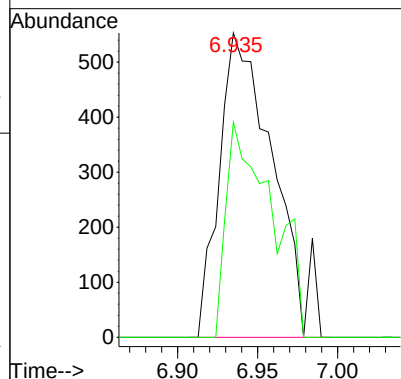
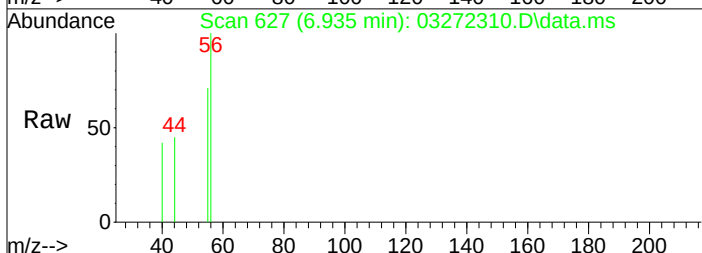
#11
Acetonitrile
Concen: 0.06 ng
RT: 6.74 min Scan# 592
Delta R.T. 0.005 min
Lab File: 03272310.D
Acq: 27 Mar 2023 10:02

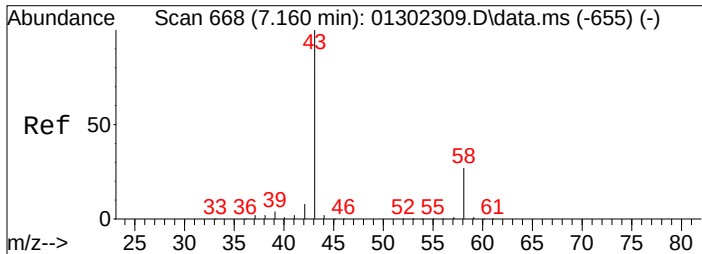
Tgt Ion: 41 Resp: 2952
Ion Ratio Lower Upper
41 100
40 71.4 32.4 72.4



#12
Acrolein
Concen: 0.10 ng
RT: 6.93 min Scan# 627
Delta R.T. -0.000 min
Lab File: 03272310.D
Acq: 27 Mar 2023 10:02

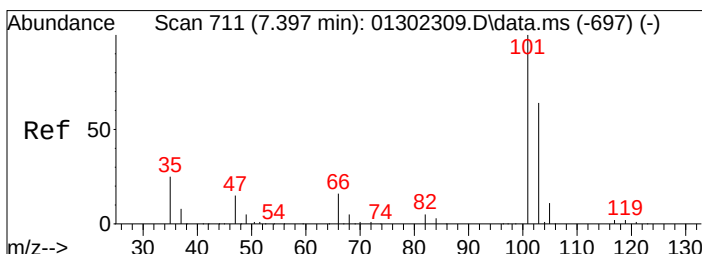
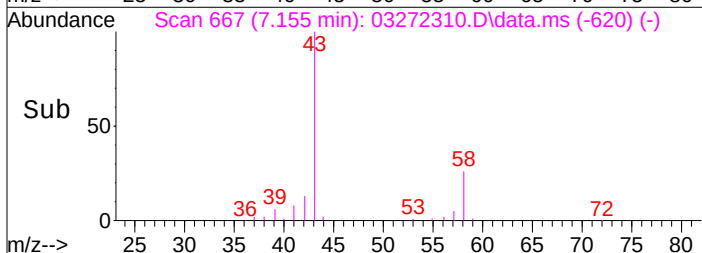
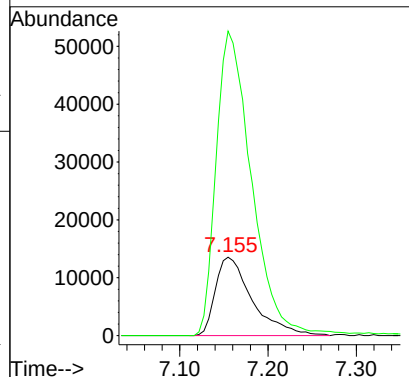
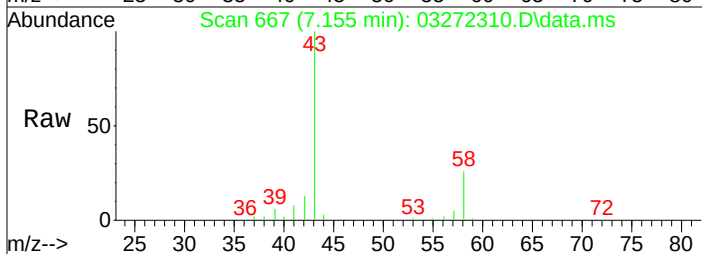
Tgt Ion: 56 Resp: 1309
Ion Ratio Lower Upper
56 100
55 59.7 49.9 89.9





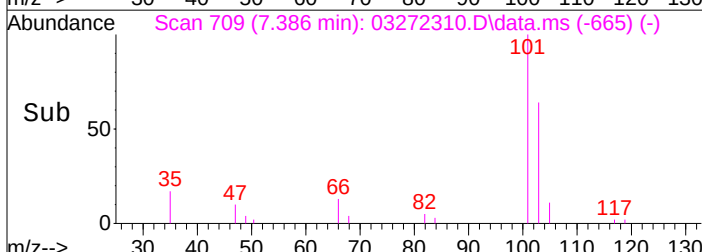
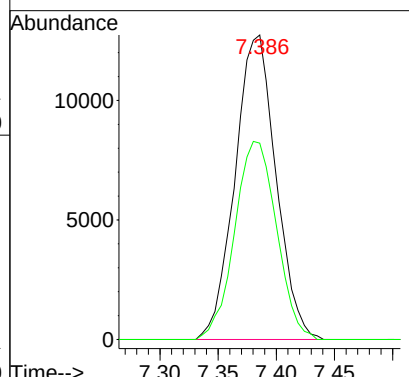
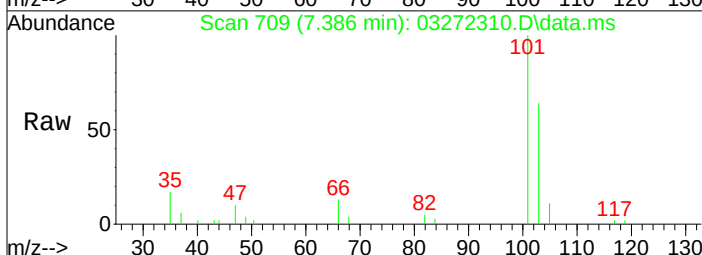
#13
 Acetone
 Concen: 2.66 ng
 RT: 7.15 min Scan# 667
 Delta R.T. 0.011 min
 Lab File: 03272310.D
 Acq: 27 Mar 2023 10:02

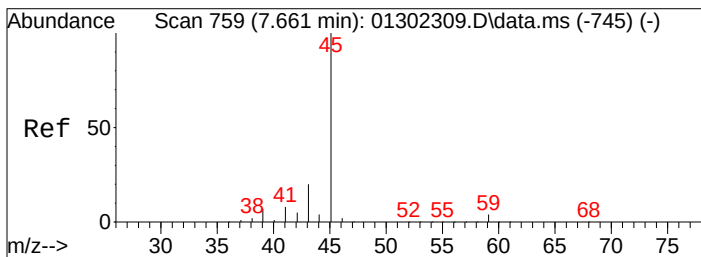
Tgt Ion	Ratio	Lower	Upper
58	100		
43	376.5	298.5	358.5#



#14
 Trichlorofluoromethane
 Concen: 1.13 ng
 RT: 7.39 min Scan# 709
 Delta R.T. -0.011 min
 Lab File: 03272310.D
 Acq: 27 Mar 2023 10:02

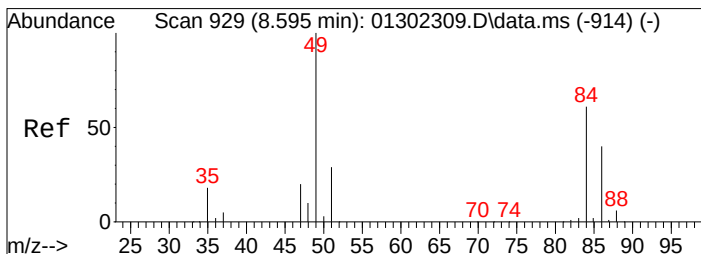
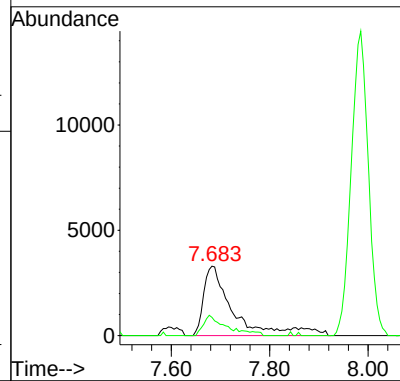
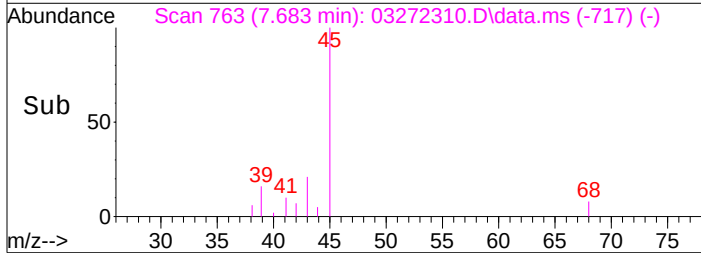
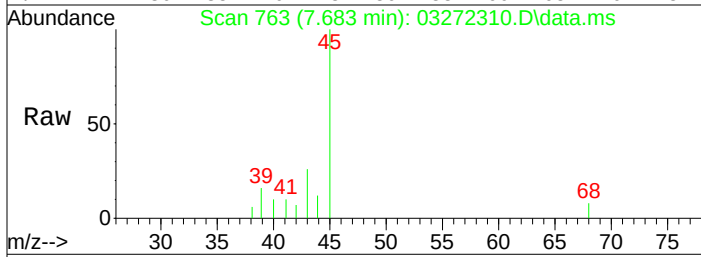
Tgt Ion	Ratio	Lower	Upper
101	100		
103	66.4	44.8	84.8





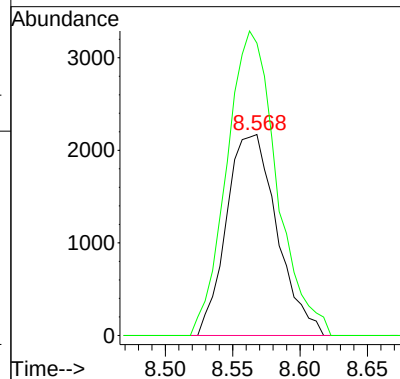
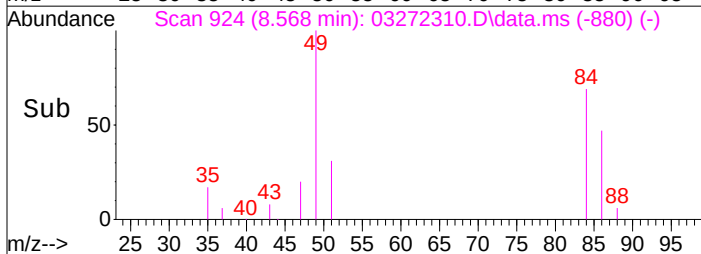
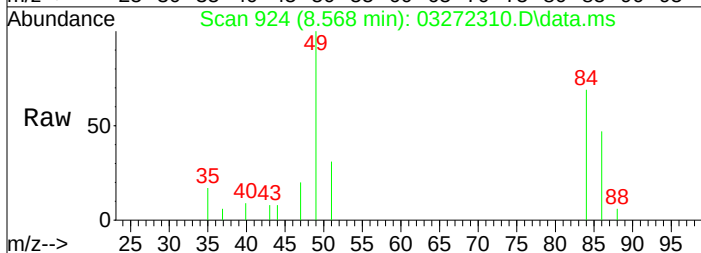
#15
2-Propanol (Isopropanol)
Concen: 0.27 ng
RT: 7.68 min Scan# 763
Delta R.T. 0.003 min
Lab File: 03272310.D
Acq: 27 Mar 2023 10:02

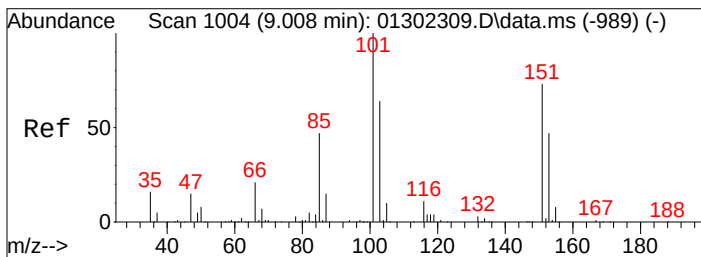
Tgt Ion: 45 Resp: 13709
Ion Ratio Lower Upper
45 100
43 23.1 0.0 37.9



#19
Methylene Chloride
Concen: 0.35 ng
RT: 8.57 min Scan# 924
Delta R.T. -0.011 min
Lab File: 03272310.D
Acq: 27 Mar 2023 10:02

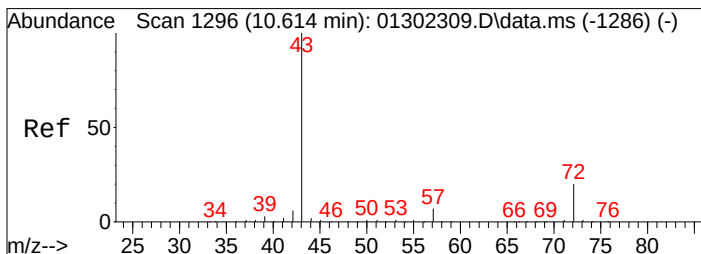
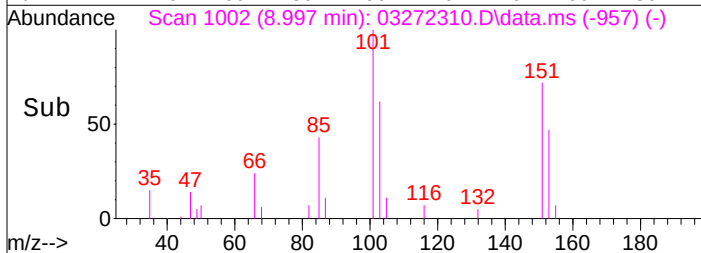
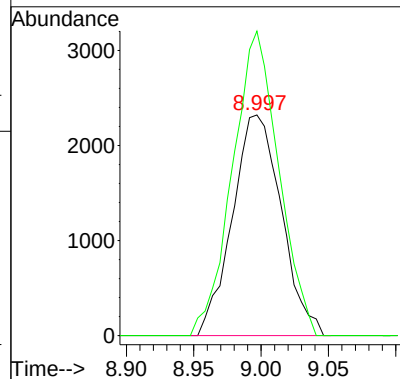
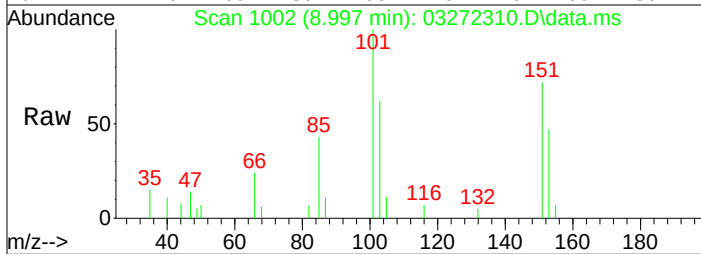
Tgt Ion: 84 Resp: 5666
Ion Ratio Lower Upper
84 100
49 150.2 135.0 185.0





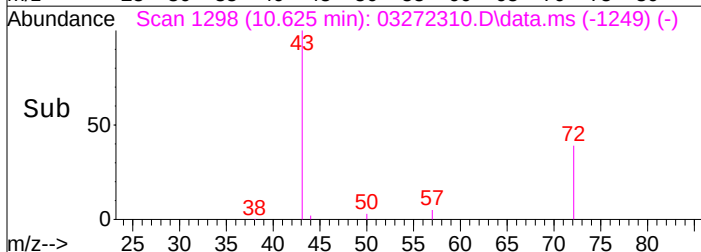
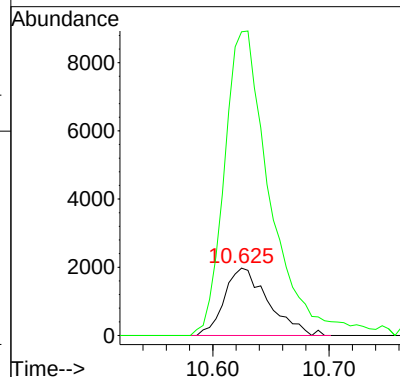
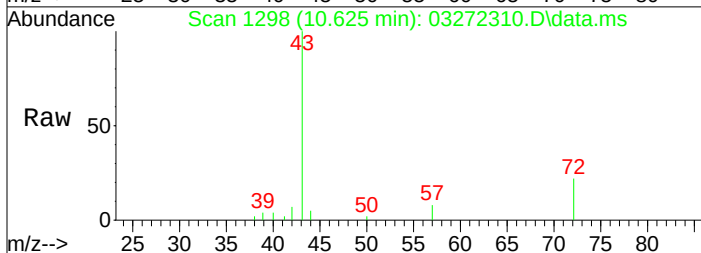
#21
 Trichlorotrifluoroethane
 Concen: 0.43 ng
 RT: 9.00 min Scan# 1002
 Delta R.T. -0.005 min
 Lab File: 03272310.D
 Acq: 27 Mar 2023 10:02

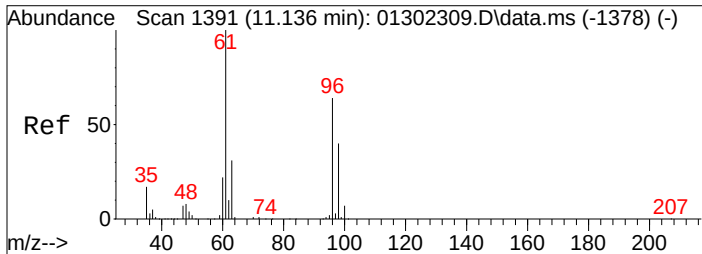
Tgt Ion: 151 Resp: 5878
 Ion Ratio Lower Upper
 151 100
 101 130.2 101.5 141.5



#27
 2-Butanone (MEK)
 Concen: 0.49 ng
 RT: 10.62 min Scan# 1298
 Delta R.T. 0.017 min
 Lab File: 03272310.D
 Acq: 27 Mar 2023 10:02

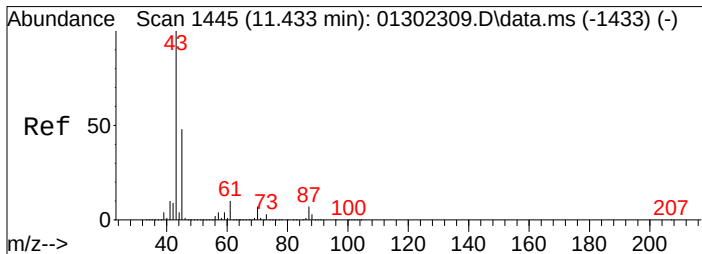
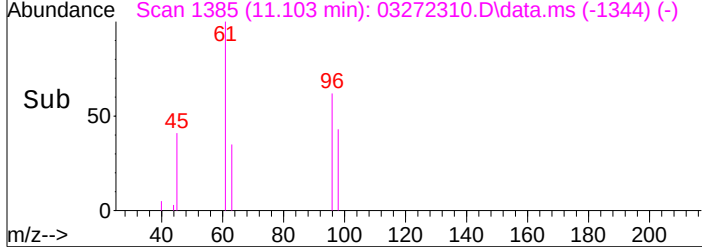
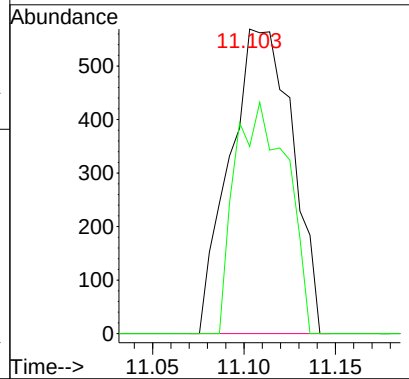
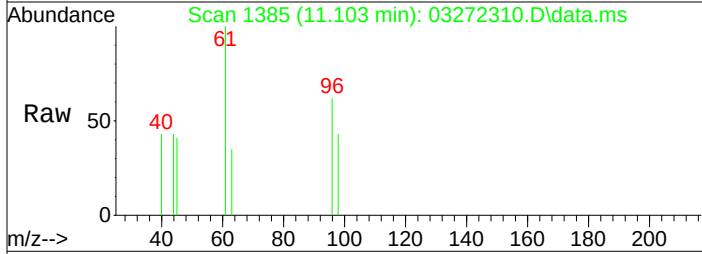
Tgt Ion: 72 Resp: 5193
 Ion Ratio Lower Upper
 72 100
 43 474.8 449.4 489.4





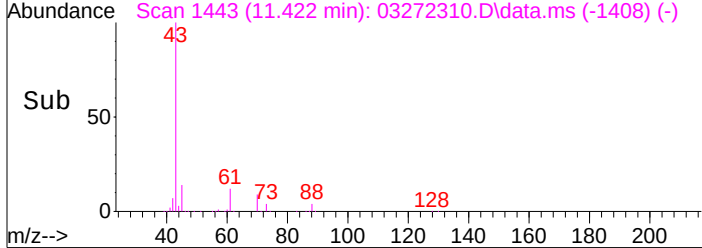
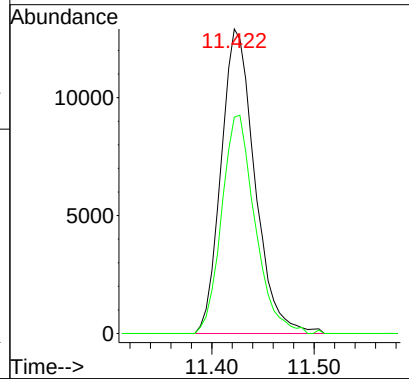
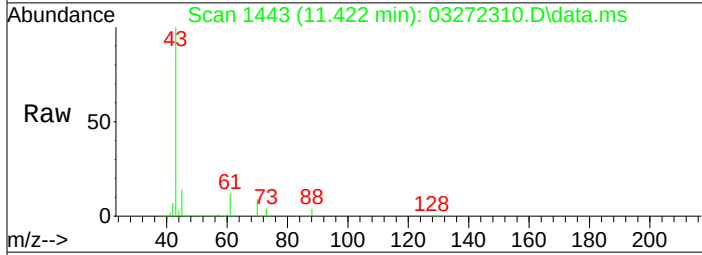
#28
 cis-1,2-Dichloroethene
 Concen: 0.06 ng
 RT: 11.10 min Scan# 1385
 Delta R.T. -0.022 min
 Lab File: 03272310.D
 Acq: 27 Mar 2023 10:02

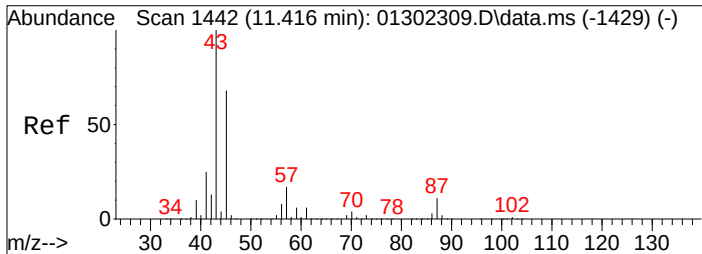
Tgt Ion: 61 Resp: 1358
 Ion Ratio Lower Upper
 61 100
 96 63.5 49.9 89.9



#30
 Ethyl Acetate
 Concen: 4.22 ng
 RT: 11.42 min Scan# 1443
 Delta R.T. -0.005 min
 Lab File: 03272310.D
 Acq: 27 Mar 2023 10:02

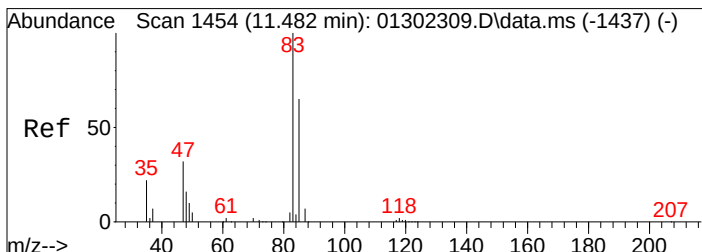
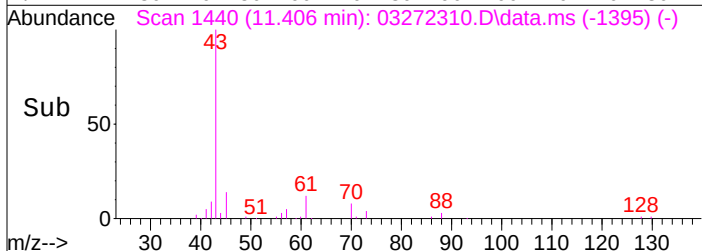
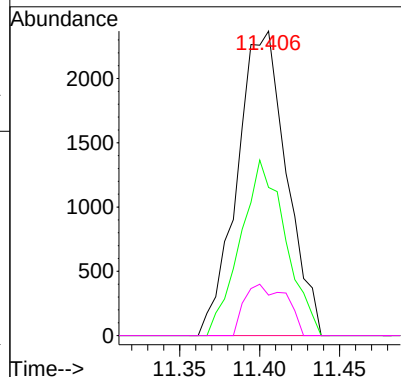
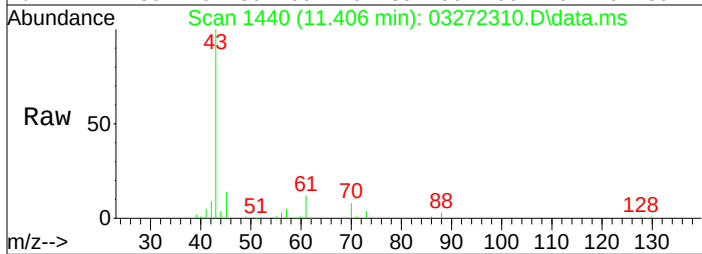
Tgt Ion: 61 Resp: 29557
 Ion Ratio Lower Upper
 61 100
 70 70.7 52.8 92.8





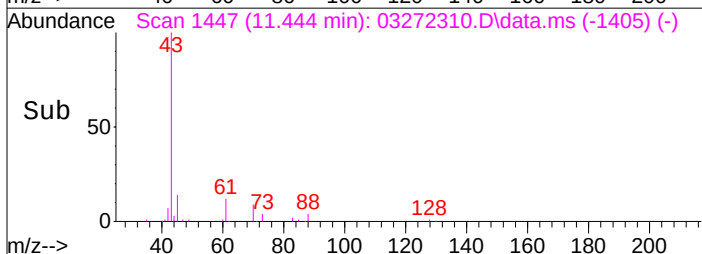
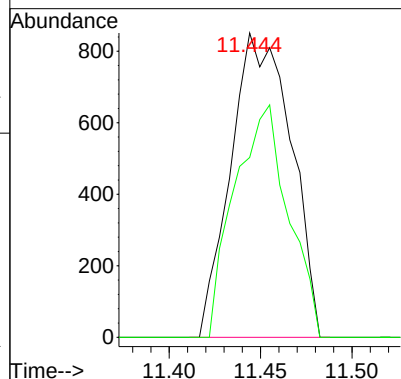
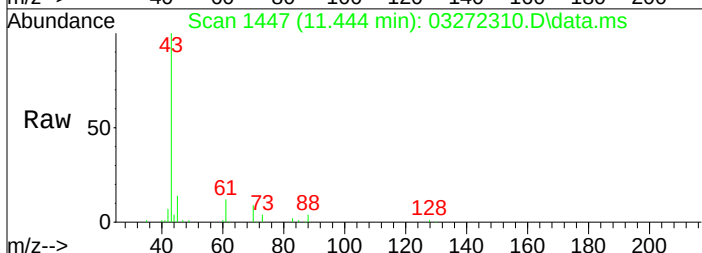
#31
n-Hexane
Concen: 0.15 ng
RT: 11.41 min Scan# 1440
Delta R.T. -0.005 min
Lab File: 03272310.D
Acq: 27 Mar 2023 10:02

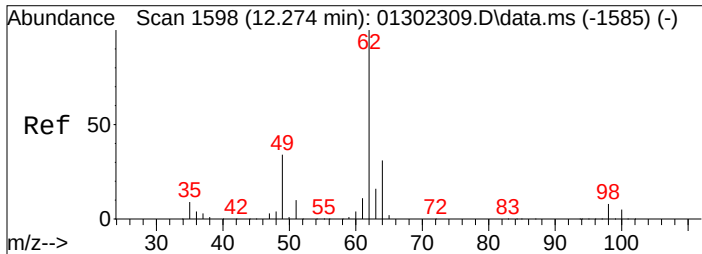
Tgt Ion:	57	Resp:	5098
Ion Ratio		Lower	Upper
57	100		
56	52.7	39.9	59.9
86	14.2	12.3	18.5



#32
Chloroform
Concen: 0.07 ng
RT: 11.44 min Scan# 1447
Delta R.T. -0.022 min
Lab File: 03272310.D
Acq: 27 Mar 2023 10:02

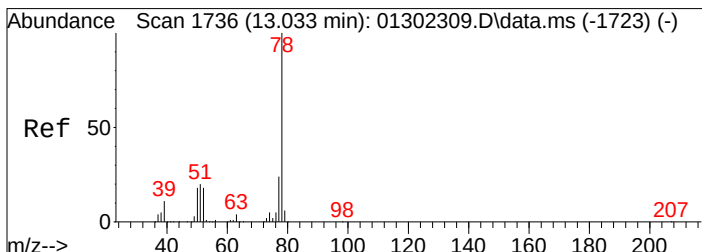
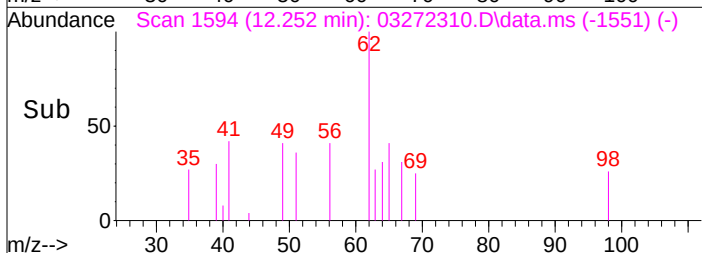
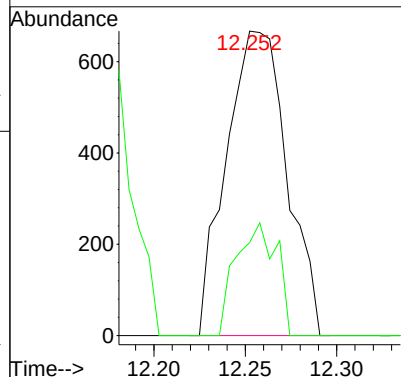
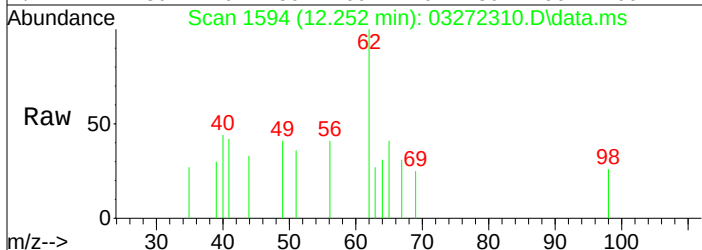
Tgt Ion:	83	Resp:	1950
Ion Ratio		Lower	Upper
83	100		
85	68.2	45.5	85.5





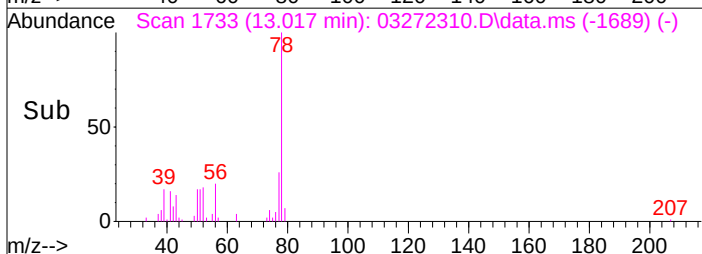
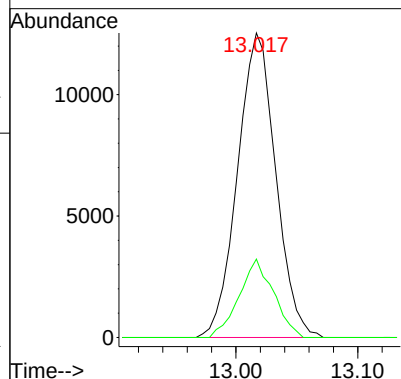
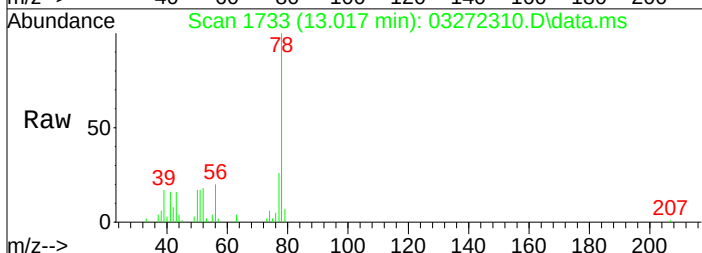
#36
 1,2-Dichloroethane
 Concen: 0.07 ng
 RT: 12.25 min Scan# 1594
 Delta R.T. -0.016 min
 Lab File: 03272310.D
 Acq: 27 Mar 2023 10:02

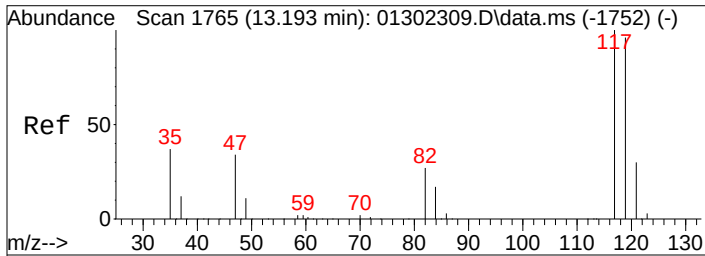
Tgt Ion: 62 Resp: 1542
 Ion Ratio Lower Upper
 62 100
 64 24.8 12.5 52.5



#41
 Benzene
 Concen: 0.42 ng
 RT: 13.02 min Scan# 1733
 Delta R.T. -0.011 min
 Lab File: 03272310.D
 Acq: 27 Mar 2023 10:02

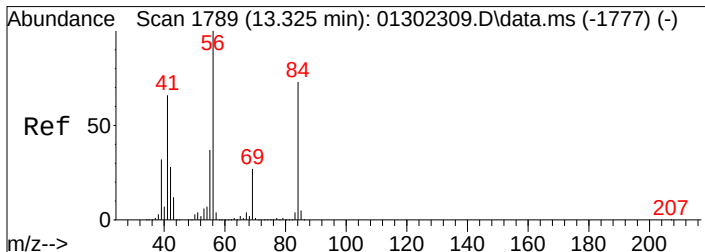
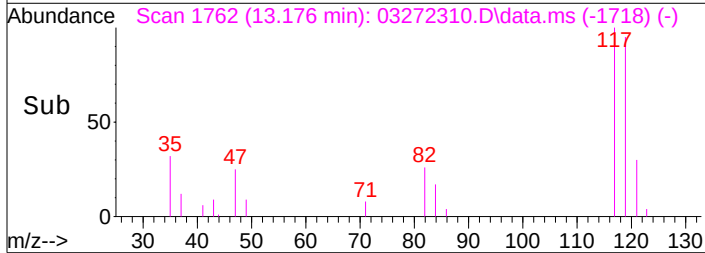
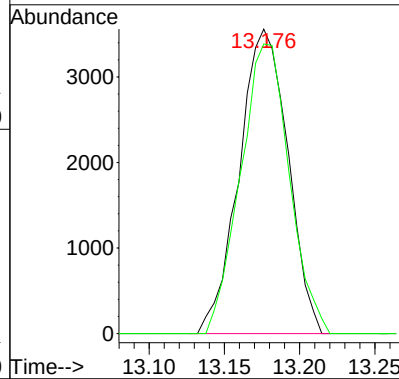
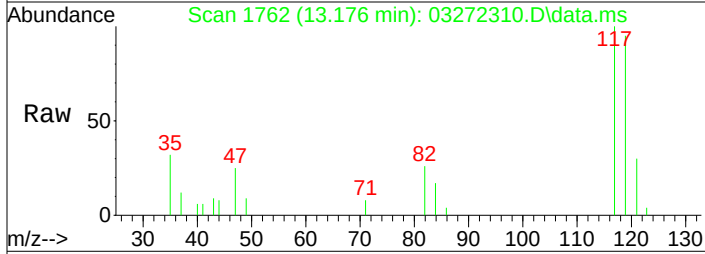
Tgt Ion: 78 Resp: 27321
 Ion Ratio Lower Upper
 78 100
 77 23.2 3.3 43.3





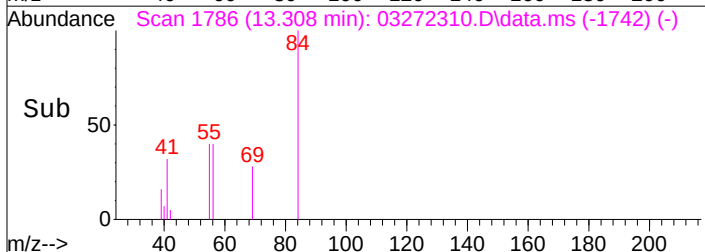
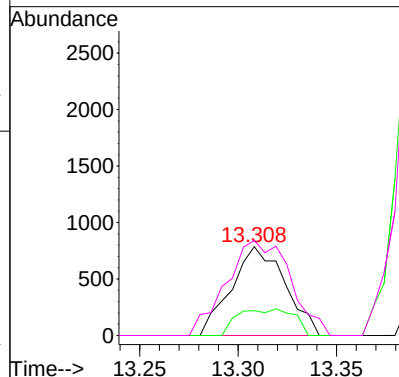
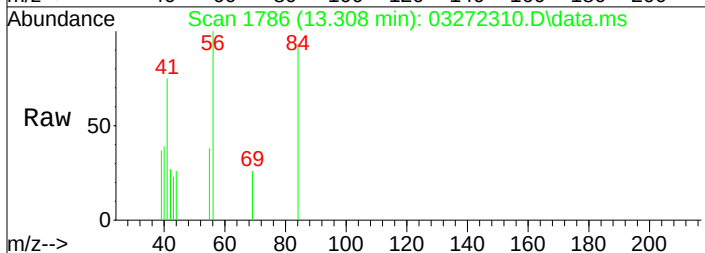
#42
Carbon Tetrachloride
Concen: 0.37 ng
RT: 13.18 min Scan# 1762
Delta R.T. -0.011 min
Lab File: 03272310.D
Acq: 27 Mar 2023 10:02

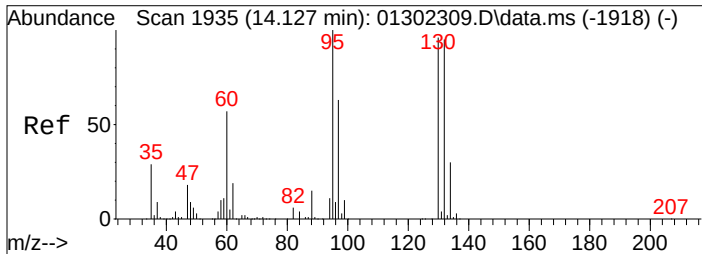
Tgt Ion: 117 Resp: 8011
Ion Ratio Lower Upper
117 100
119 95.2 76.2 116.2



#43
Cyclohexane
Concen: 0.05 ng
RT: 13.31 min Scan# 1786
Delta R.T. -0.011 min
Lab File: 03272310.D
Acq: 27 Mar 2023 10:02

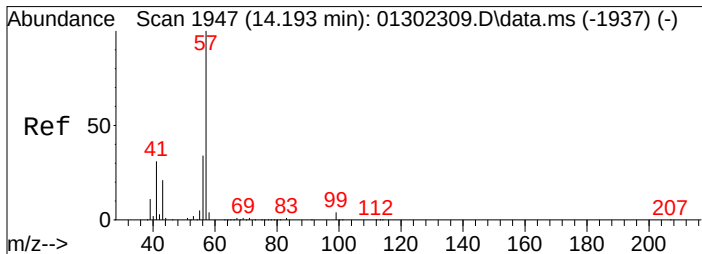
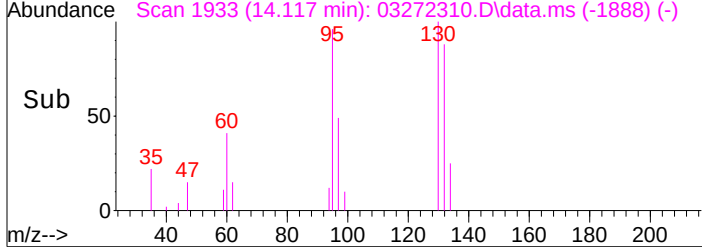
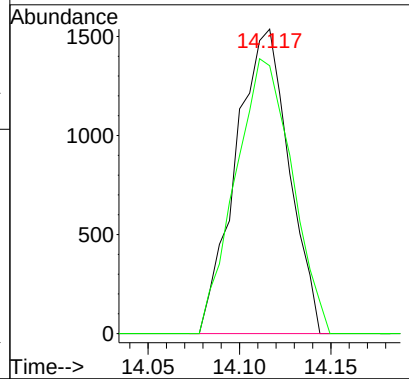
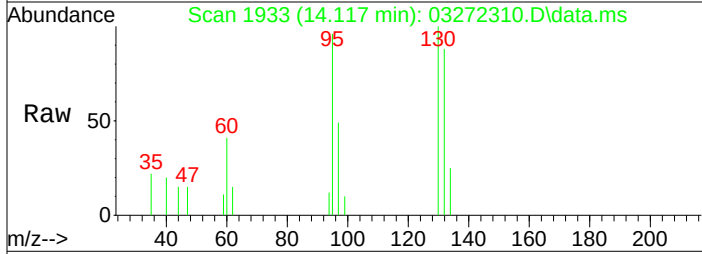
Tgt Ion: 84 Resp: 1490
Ion Ratio Lower Upper
84 100
69 31.1 16.2 56.2
56 127.4 115.2 155.2





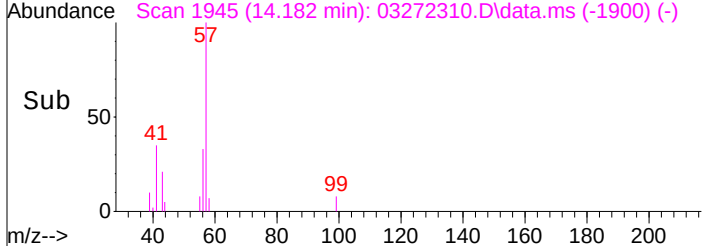
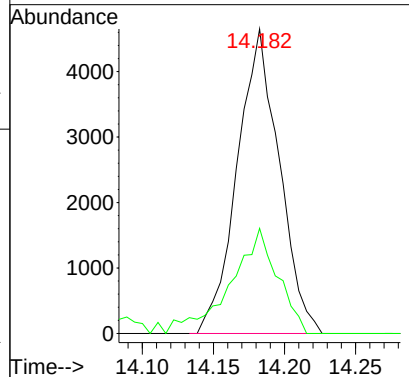
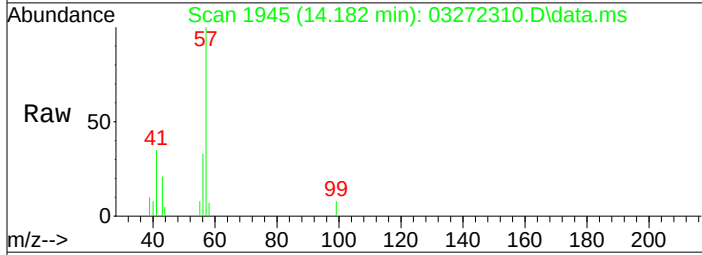
#47
 Trichloroethene
 Concen: 0.17 ng
 RT: 14.12 min Scan# 1933
 Delta R.T. -0.005 min
 Lab File: 03272310.D
 Acq: 27 Mar 2023 10:02

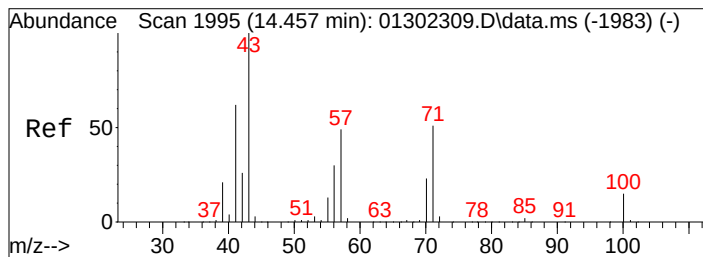
Tgt Ion: 130 Resp: 3103
 Ion Ratio Lower Upper
 130 100
 132 96.4 78.7 118.7



#49
 2,2,4-Trimethylpentane (Isooctane)
 Concen: 0.11 ng
 RT: 14.18 min Scan# 1945
 Delta R.T. -0.005 min
 Lab File: 03272310.D
 Acq: 27 Mar 2023 10:02

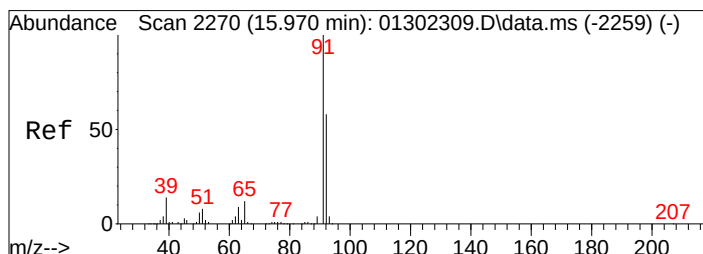
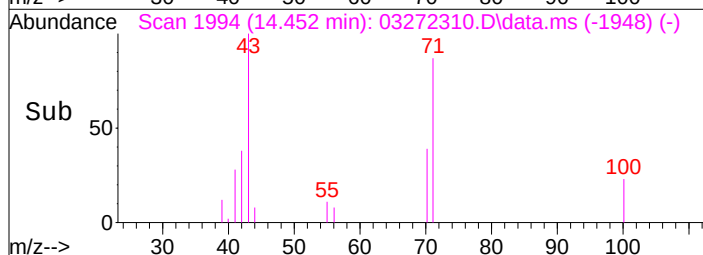
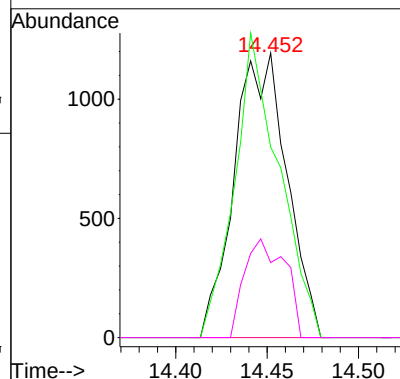
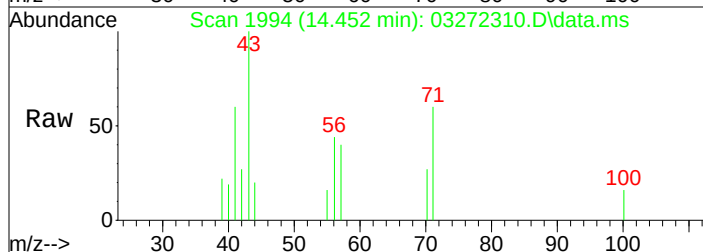
Tgt Ion: 57 Resp: 9554
 Ion Ratio Lower Upper
 57 100
 41 39.1 5.8 45.8





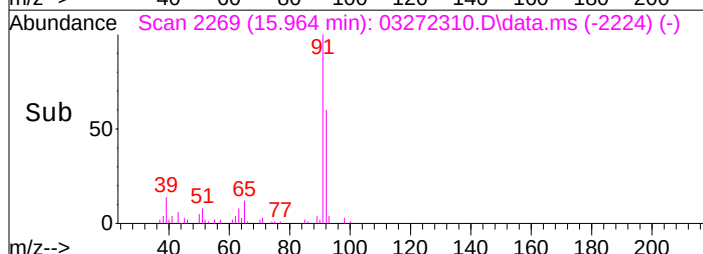
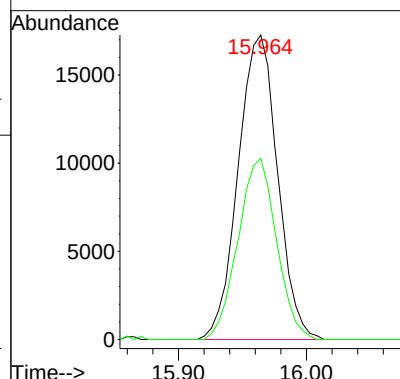
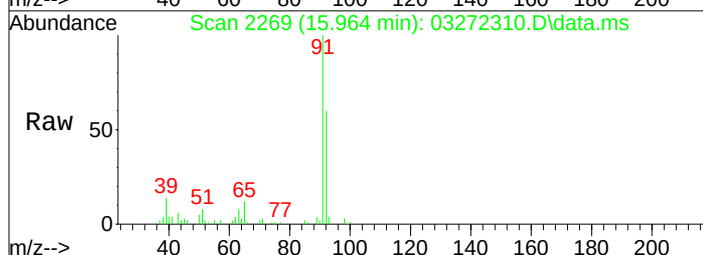
#51
n-Heptane
Concen: 0.12 ng
RT: 14.45 min Scan# 1994
Delta R.T. 0.000 min
Lab File: 03272310.D
Acq: 27 Mar 2023 10:02

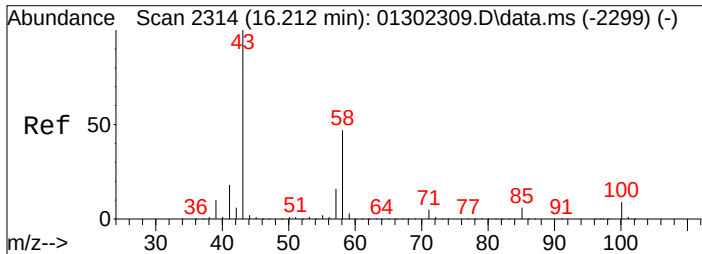
Tgt Ion: 71 Resp: 2393
Ion Ratio Lower Upper
71 100
57 90.4 81.4 121.4
100 26.7 11.8 51.8



#58
Toluene
Concen: 0.49 ng
RT: 15.96 min Scan# 2269
Delta R.T. -0.005 min
Lab File: 03272310.D
Acq: 27 Mar 2023 10:02

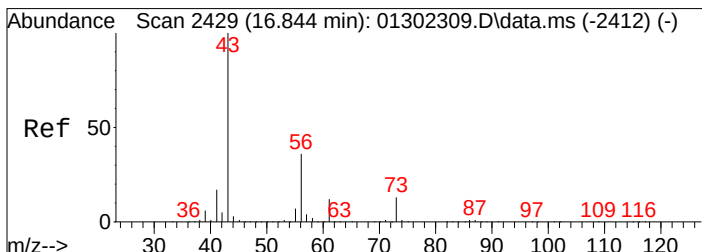
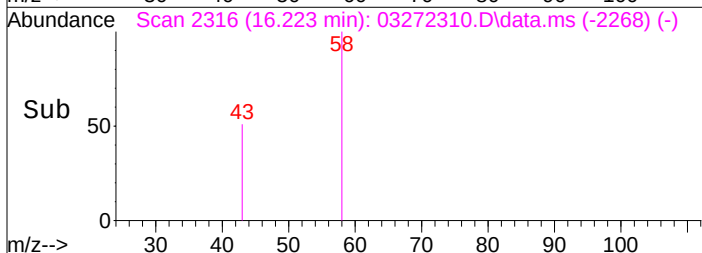
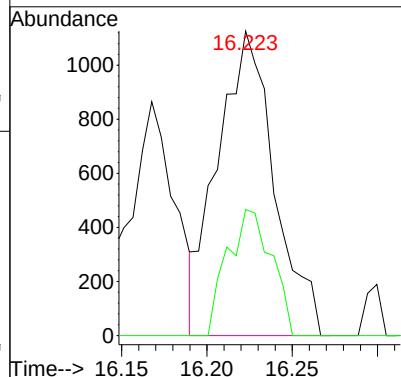
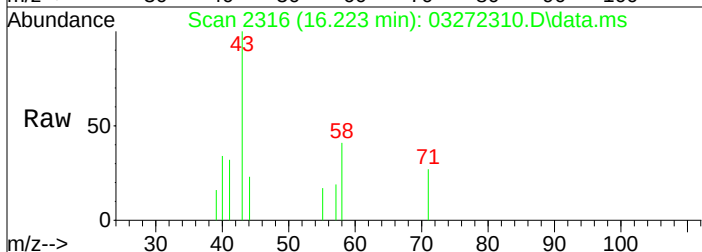
Tgt Ion: 91 Resp: 37003
Ion Ratio Lower Upper
91 100
92 58.1 39.8 79.8





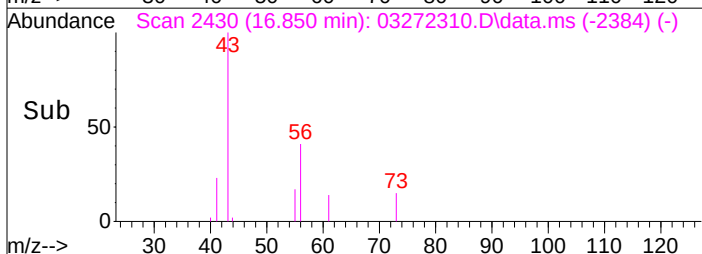
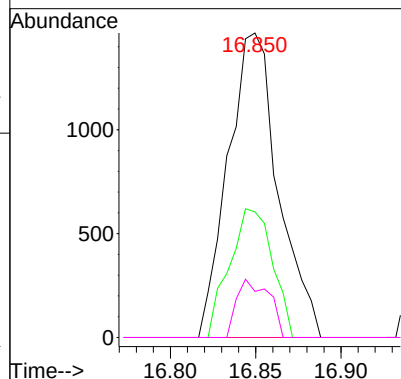
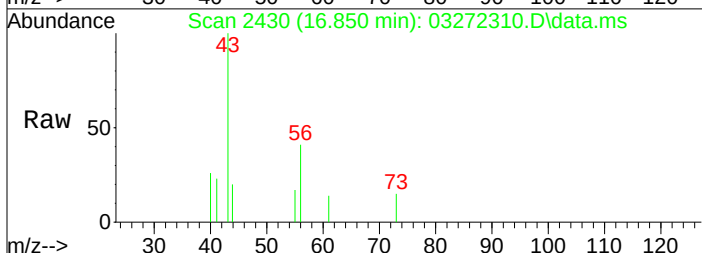
#59
2-Hexanone
Concen: 0.06 ng
RT: 16.22 min Scan# 2316
Delta R.T. 0.011 min
Lab File: 03272310.D
Acq: 27 Mar 2023 10:02

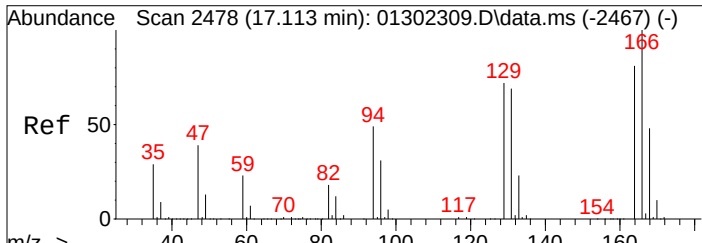
Tgt Ion: 43 Resp: 2599
Ion Ratio Lower Upper
43 100
58 32.2 32.3 72.3#



#62
n-Butyl Acetate
Concen: 0.07 ng
RT: 16.85 min Scan# 2430
Delta R.T. 0.006 min
Lab File: 03272310.D
Acq: 27 Mar 2023 10:02

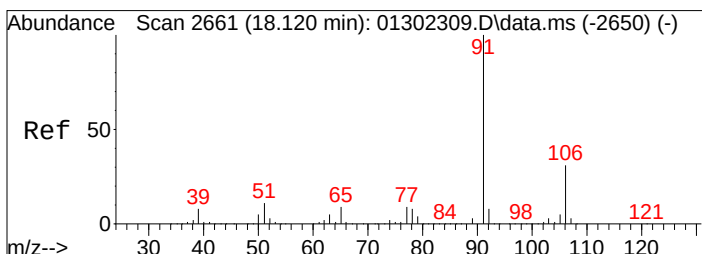
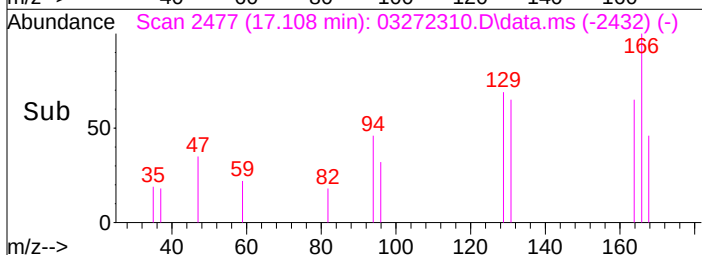
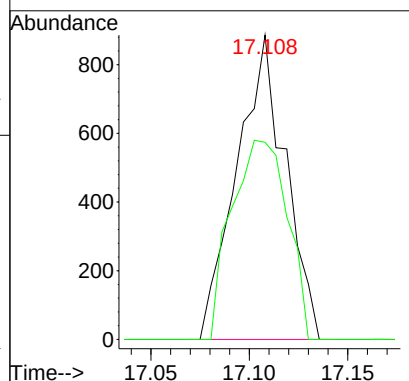
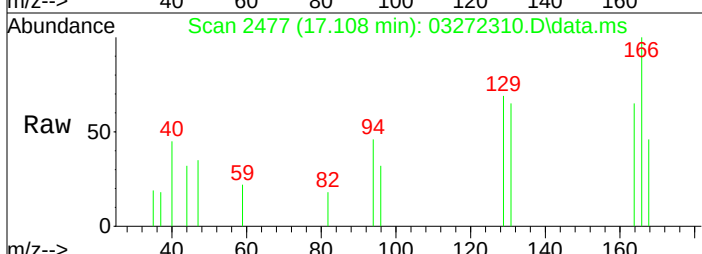
Tgt Ion: 43 Resp: 2997
Ion Ratio Lower Upper
43 100
56 36.2 21.0 61.0
73 12.3 0.0 34.3





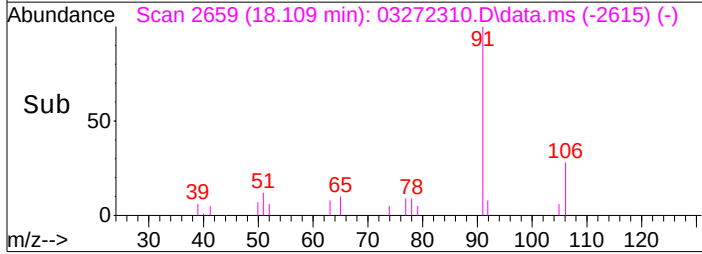
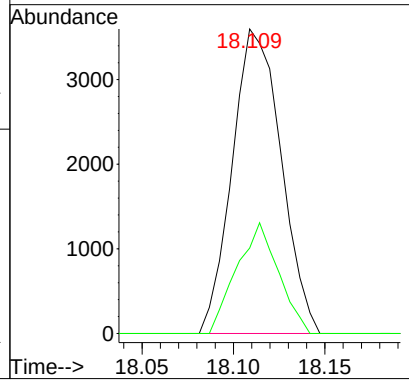
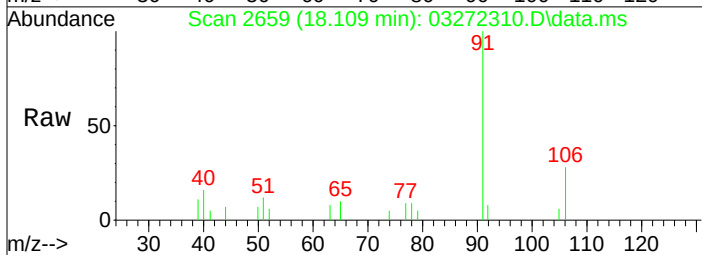
#64
 Tetrachloroethene
 Concen: 0.08 ng
 RT: 17.11 min Scan# 2477
 Delta R.T. -0.005 min
 Lab File: 03272310.D
 Acq: 27 Mar 2023 10:02

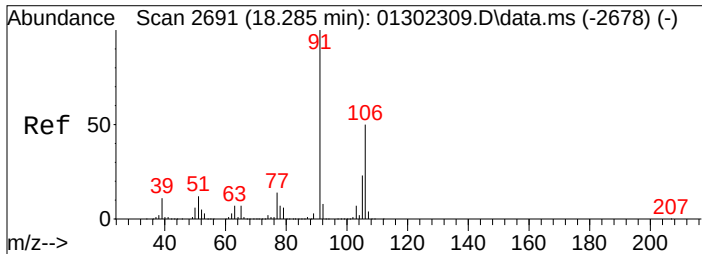
Tgt Ion:	166	Resp:	1517
Ion Ratio		Lower	Upper
166	100		
164	75.5	58.7	98.7



#66
 Ethylbenzene
 Concen: 0.08 ng
 RT: 18.11 min Scan# 2659
 Delta R.T. -0.011 min
 Lab File: 03272310.D
 Acq: 27 Mar 2023 10:02

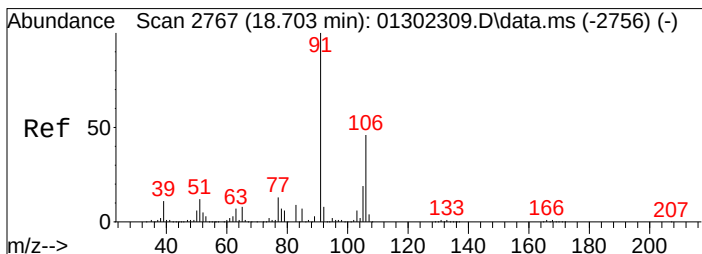
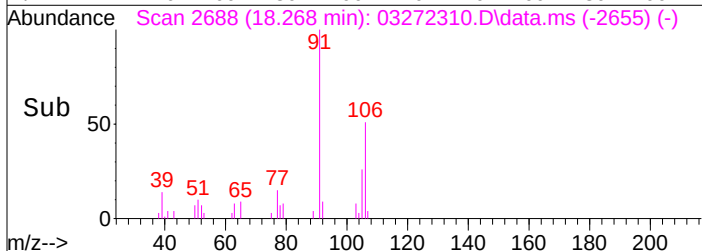
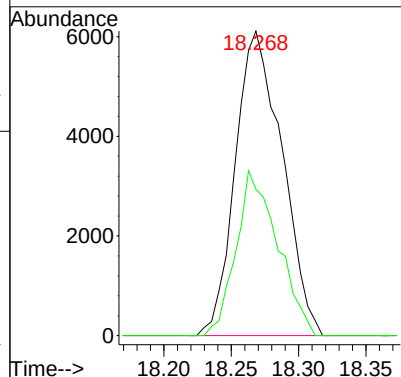
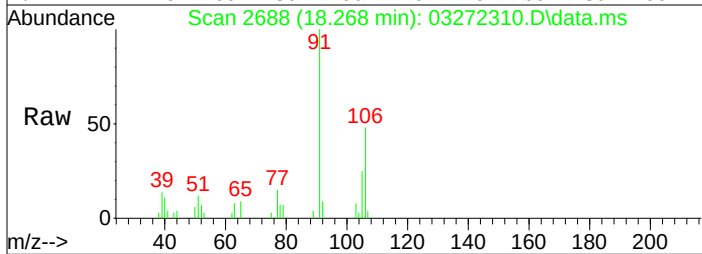
Tgt Ion:	91	Resp:	6688
Ion Ratio		Lower	Upper
91	100		
106	31.1	11.5	51.5





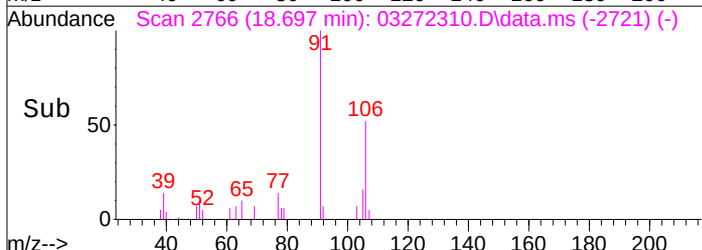
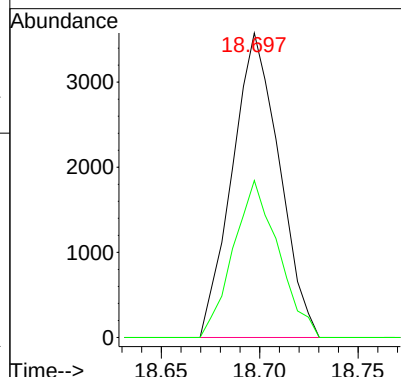
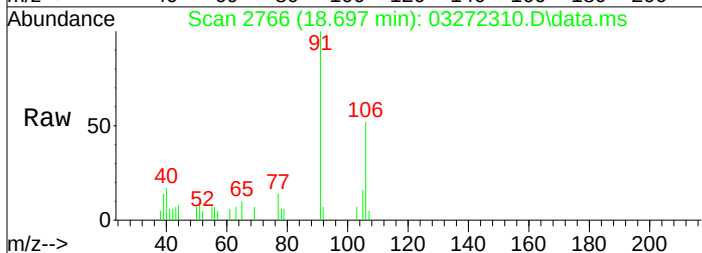
#67
 m- & p-Xylenes
 Concen: 0.22 ng
 RT: 18.27 min Scan# 2688
 Delta R.T. -0.016 min
 Lab File: 03272310.D
 Acq: 27 Mar 2023 10:02

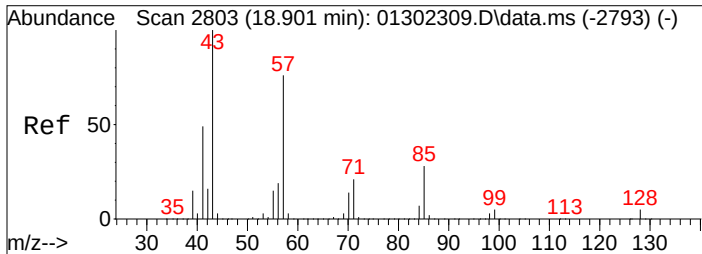
Tgt Ion:	91	Resp:	14766
Ion Ratio	Lower	Upper	
91	100		
106	48.1	29.2	69.2



#70
 o-Xylene
 Concen: 0.09 ng
 RT: 18.70 min Scan# 2766
 Delta R.T. -0.005 min
 Lab File: 03272310.D
 Acq: 27 Mar 2023 10:02

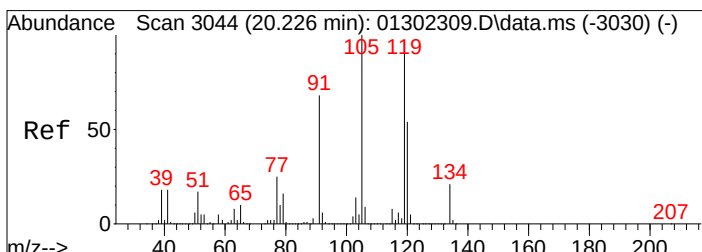
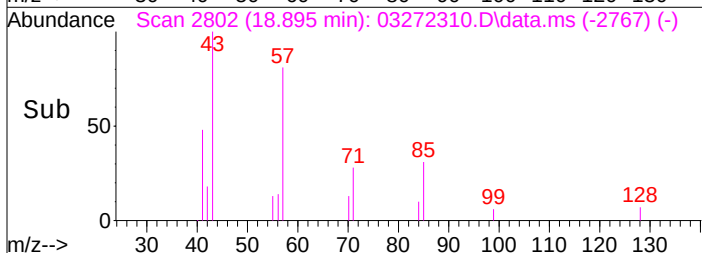
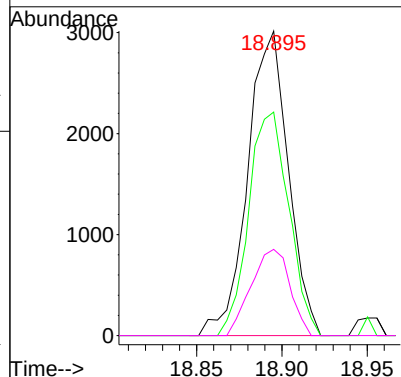
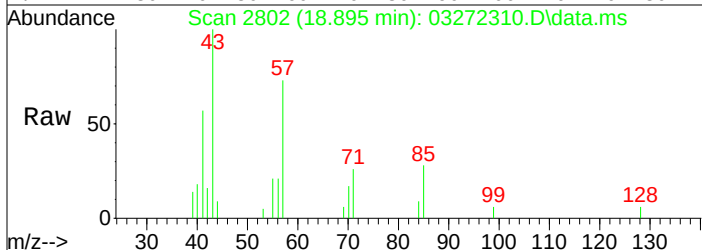
Tgt Ion:	91	Resp:	5936
Ion Ratio	Lower	Upper	
91	100		
106	49.5	27.3	67.3





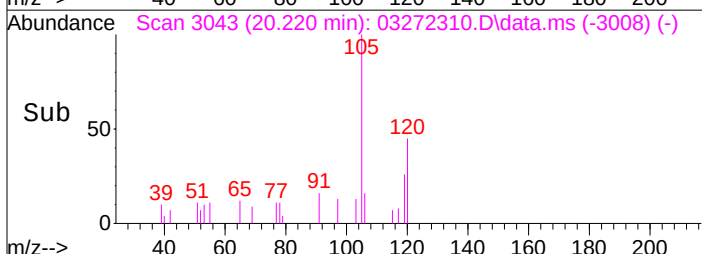
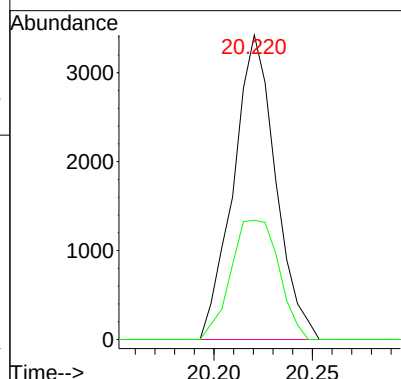
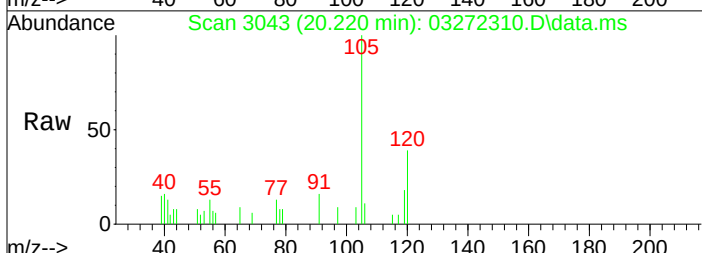
#71
n-Nonane
Concen: 0.11 ng
RT: 18.90 min Scan# 2802
Delta R.T. -0.005 min
Lab File: 03272310.D
Acq: 27 Mar 2023 10:02

Tgt Ion:	43	Resp:	5002
Ion Ratio		Lower	Upper
43	100		
57	72.5	64.6	104.6
85	27.0	9.6	49.6



#82
1,2,4-Trimethylbenzene
Concen: 0.07 ng
RT: 20.22 min Scan# 3043
Delta R.T. -0.005 min
Lab File: 03272310.D
Acq: 27 Mar 2023 10:02

Tgt Ion:	105	Resp:	5099
Ion Ratio		Lower	Upper
105	100		
120	44.6	37.2	77.2



Data File : I:\MS16\DATA\2023_03\27\03272310.D
 Acq On : 27 Mar 2023 10:02
 Sample : P2301250-058 (1000mL)
 Misc : S35-01312301

Vial: 6
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 12:11:38 2023

Quant Method : I:\MS16\METHODS\C16122022.M

Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD

QLast Update : Wed Dec 21 05:02:49 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.28	130	201363	12.500	ng	-0.02
16) 1,4-Difluorobenzene (C_2)	13.41	114	934031	12.500	ng	-0.02
19) Chlorobenzene-d5 (C_3)	17.72	54	198017	12.500	ng	0.00

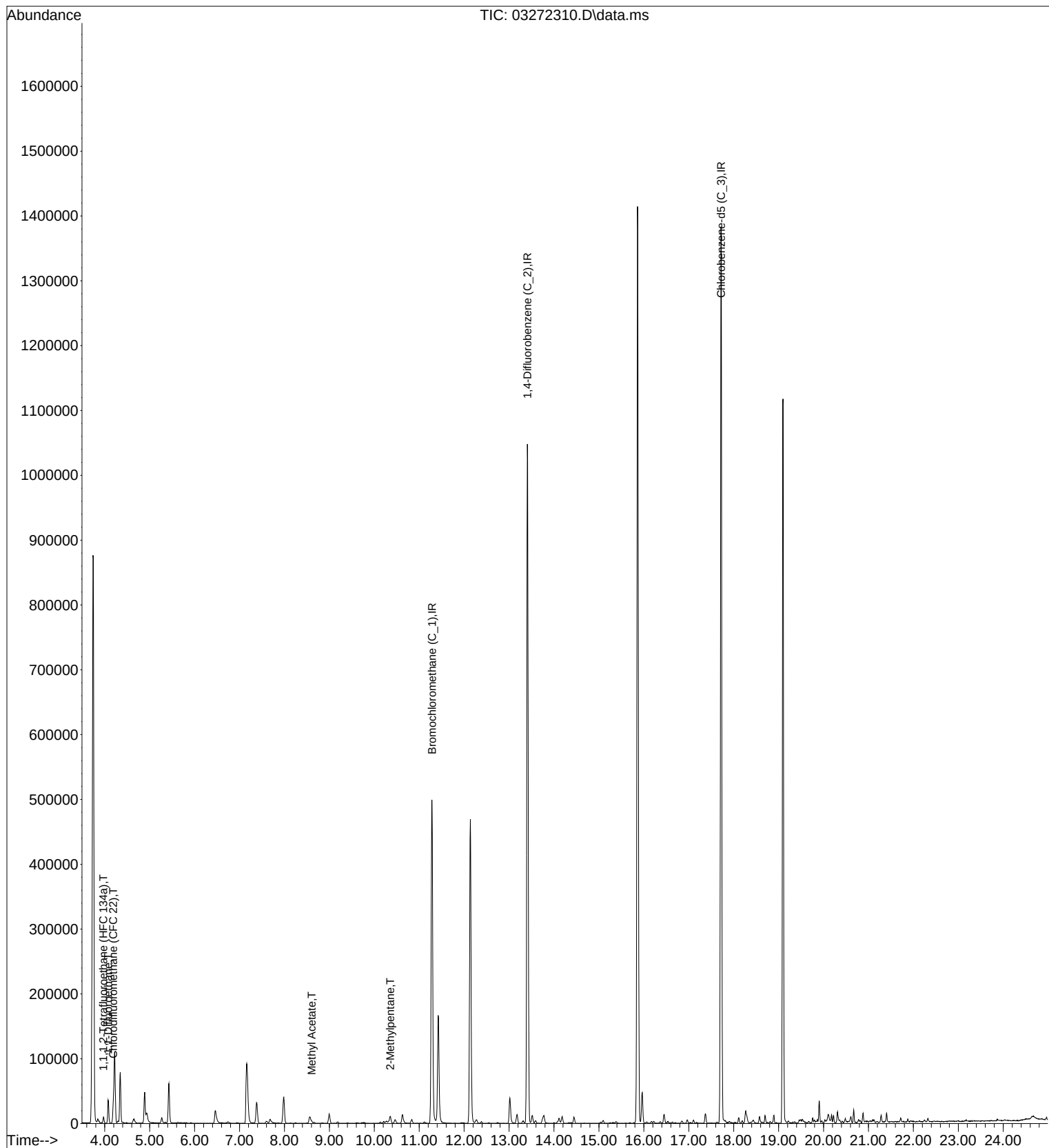
Target Compounds						Qvalue
2) Chloropentafluoroethane	3.87	85	724	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.97	83	6472	0.406 ng		87
4) 1,1-Difluoroethane	4.08	65	14589	0.956 ng		97
5) Chlorodifluoromethane ...	4.19	67	3208	0.644 ng		83
6) 1-Chloro-1,1-Difluoroe...	4.65	65	3194	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D. d		
11) Methyl Acetate	8.61	43	5731	0.115 ng		97
12) 2-Methylpentane	10.36	71	2569	0.130 ng	#	19
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	13.17	84	1446	N.D.		
17) 2,3-Dimethylpentane	13.59	56	1725	N.D.		
18) Dibromomethane	13.83	174	161	N.D.		
20) Methyl Cyclohexane	15.09	55	1505	N.D.		
21) 1,3-Dichloropropane	0.00	76	0	N.D. d		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	0.00	91	0	N.D.		
24) 1,2,3-Trichloropropane	0.00	75	0	N.D.		
25) Bromobenzene	19.22	77	50	N.D.		
26) 2-Chlorotoluene	19.67	91	1985	N.D.		
27) 4-Chlorotoluene	19.75	91	579	N.D.		
28) Indane	20.76	117	383	N.D.		
29) Indene	0.00	115	0	N.D.		
30) 1,2,4,5-Tetramethylben...	21.61	119	205	N.D.		
31) 1,2,3,4-Tetramethylben...	21.65	119	458	N.D.		
32) 1,2,3,5-Tetramethylben...	22.01	119	137	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\27\03272310.D
Acq On : 27 Mar 2023 10:02
Sample : P2301250-058 (1000mL)
Misc : S35-01312301

Vial: 6
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 12:11:38 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG18

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-059

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01352

Date Collected: 3/17/23

Date Received: 3/20/23

Date Analyzed: 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.52 Final Pressure (psig): 3.75

Container Dilution Factor: 1.30

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.8	0.69	0.11	0.57	0.14	0.023	
74-87-3	Chloromethane	0.18	0.27	0.11	0.086	0.13	0.054	J, V
75-01-4	Vinyl Chloride	0.44	0.14	0.074	0.17	0.056	0.029	
74-83-9	Bromomethane	ND	0.27	0.096	ND	0.070	0.025	
75-00-3	Chloroethane	ND	0.27	0.086	ND	0.10	0.033	
67-64-1	Acetone	4.2	6.9	1.6	1.8	2.9	0.66	J
75-69-4	Trichlorofluoromethane	1.4	0.68	0.11	0.25	0.12	0.019	
75-35-4	1,1-Dichloroethene	ND	0.14	0.096	ND	0.036	0.024	
75-09-2	Methylene Chloride	0.36	0.69	0.20	0.10	0.20	0.056	J
76-13-1	Trichlorotrifluoroethane	0.53	0.70	0.099	0.069	0.092	0.013	J
75-15-0	Carbon Disulfide	0.21	1.4	0.21	0.067	0.45	0.067	J
156-60-5	trans-1,2-Dichloroethene	ND	0.14	0.096	ND	0.036	0.024	
75-34-3	1,1-Dichloroethane	0.21	0.14	0.10	0.053	0.035	0.025	
1634-04-4	Methyl tert-Butyl Ether	ND	0.70	0.082	ND	0.19	0.023	
78-93-3	2-Butanone (MEK)	0.87	1.4	0.14	0.29	0.46	0.049	J
156-59-2	cis-1,2-Dichloroethene	1.0	0.14	0.098	0.26	0.036	0.025	
67-66-3	Chloroform	1.6	0.14	0.092	0.32	0.029	0.019	
107-06-2	1,2-Dichloroethane	ND	0.14	0.077	ND	0.035	0.019	
71-55-6	1,1,1-Trichloroethane	0.33	0.14	0.086	0.061	0.026	0.016	
71-43-2	Benzene	0.45	0.14	0.10	0.14	0.045	0.031	
56-23-5	Carbon Tetrachloride	0.46	0.14	0.096	0.073	0.023	0.015	
110-82-7	Cyclohexane	ND	1.4	0.20	ND	0.40	0.057	
78-87-5	1,2-Dichloropropane	ND	0.14	0.086	ND	0.031	0.019	
75-27-4	Bromodichloromethane	0.32	0.14	0.10	0.048	0.021	0.015	
79-01-6	Trichloroethene	2.8	0.14	0.094	0.53	0.027	0.017	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG18

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-059

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01352

Date Collected: 3/17/23

Date Received: 3/20/23

Date Analyzed: 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.52 Final Pressure (psig): 3.75

Container Dilution Factor: 1.30

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.70	0.11	ND	0.15	0.024	
108-10-1	4-Methyl-2-pentanone	ND	1.4	0.095	ND	0.35	0.023	
10061-02-6	trans-1,3-Dichloropropene	ND	0.66	0.14	ND	0.15	0.032	
79-00-5	1,1,2-Trichloroethane	ND	0.14	0.070	ND	0.026	0.013	
108-88-3	Toluene	0.56	0.69	0.085	0.15	0.18	0.022	J
591-78-6	2-Hexanone	0.17	1.4	0.086	0.043	0.35	0.021	J
124-48-1	Dibromochloromethane	ND	0.14	0.091	ND	0.017	0.011	
106-93-4	1,2-Dibromoethane	ND	0.14	0.081	ND	0.019	0.010	
127-18-4	Tetrachloroethene	0.31	0.14	0.090	0.046	0.021	0.013	
108-90-7	Chlorobenzene	ND	0.69	0.092	ND	0.15	0.020	
100-41-4	Ethylbenzene	ND	0.69	0.098	ND	0.16	0.022	
179601-23-1	m,p-Xylenes	0.26	1.4	0.18	0.060	0.33	0.042	J
75-25-2	Bromoform	ND	0.70	0.14	ND	0.068	0.014	
100-42-5	Styrene	ND	0.69	0.11	ND	0.16	0.026	
95-47-6	o-Xylene	0.10	0.69	0.10	0.024	0.16	0.023	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	0.096	ND	0.021	0.014	
98-82-8	Cumene	ND	0.70	0.10	ND	0.14	0.020	
541-73-1	1,3-Dichlorobenzene	ND	0.69	0.10	ND	0.11	0.017	
106-46-7	1,4-Dichlorobenzene	ND	0.69	0.11	ND	0.11	0.018	
95-50-1	1,2-Dichlorobenzene	ND	0.70	0.10	ND	0.12	0.017	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.4	0.13	ND	0.15	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	1.4	0.17	ND	0.19	0.023	
79-20-9	Methyl Acetate	ND	0.65	0.31	ND	0.21	0.10	X
108-87-2	Methylcyclohexane	ND	0.65	0.34	ND	0.16	0.084	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS16\DATA\2023_03\27\03272311.D
 Acq On : 27 Mar 2023 10:36
 Sample : P2301250-059 (1000mL)
 Misc : S35-01312301

Vial: 7
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 11:56:47 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:TO15B.M

3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	198989	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	919275	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.72	54	199035	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	354591	13.400	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	107.20%
57) Toluene-d8 (SS2)	15.86	98	1056153	12.121	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	96.96%
73) Bromofluorobenzene (SS3)	19.10	174	312944	11.515	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.08%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	4.34	85	64948	2.184	ng	100
4) Chloromethane	4.63	50	3814	0.137	ng	92
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	1441	0.087	ng	100
6) Vinyl Chloride	5.05	62	8784	0.340	ng	100
7) 1,3-Butadiene	5.25	54	502	N.D.		
8) Bromomethane	5.77	94	235	N.D.		
9) Chloroethane	6.11	64	247	N.D.		
10) Ethanol	6.47	45	14515	0.758	ng	95
11) Acetonitrile	6.75	41	3743	0.078	ng	86
12) Acrolein	6.94	56	1279	0.094	ng	98
13) Acetone	7.15	58	47790	3.263	ng	# 40
14) Trichlorofluoromethane	7.37	101	30045	1.095	ng	99
15) 2-Propanol (Isopropanol)	7.68	45	6734	0.132	ng	89
16) Acrylonitrile	7.91	53	52	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	8.61	59	973	N.D.		
19) Methylene Chloride	8.56	84	4527	0.280	ng	86
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	9.00	151	5592	0.409	ng	96
22) Carbon Disulfide	8.83	76	9247	0.160	ng	94
23) trans-1,2-Dichloroethene	9.84	61	734	N.D.		
24) 1,1-Dichloroethane	10.09	63	4855	0.164	ng	99
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	10.62	72	7090	0.668	ng	97
28) cis-1,2-Dichloroethene	11.11	61	19555	0.802	ng	95
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	11.43	61	14427	2.078	ng	97
31) n-Hexane	11.40	57	7416	0.213	ng	# 96
32) Chloroform	11.45	83	31995	1.205	ng	100
34) Tetrahydrofuran (THF)	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	12.26	62	1194	0.055	ng	85
38) 1,1,1-Trichloroethane	12.54	97	6347	0.255	ng	98
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.02	78	22501	0.348	ng	100
42) Carbon Tetrachloride	13.18	117	7427	0.353	ng	96
43) Cyclohexane	13.31	84	1554	0.057	ng	89
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	14.06	83	5317	0.249	ng	90
47) Trichloroethene	14.11	130	38525	2.188	ng	99
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	14.18	57	11459	0.131	ng	79
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS16\DATA\2023_03\27\03272311.D
 Acq On : 27 Mar 2023 10:36
 Sample : P2301250-059 (1000mL)
 Misc : S35-01312301

Vial: 7
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 11:56:47 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:TO15B.M

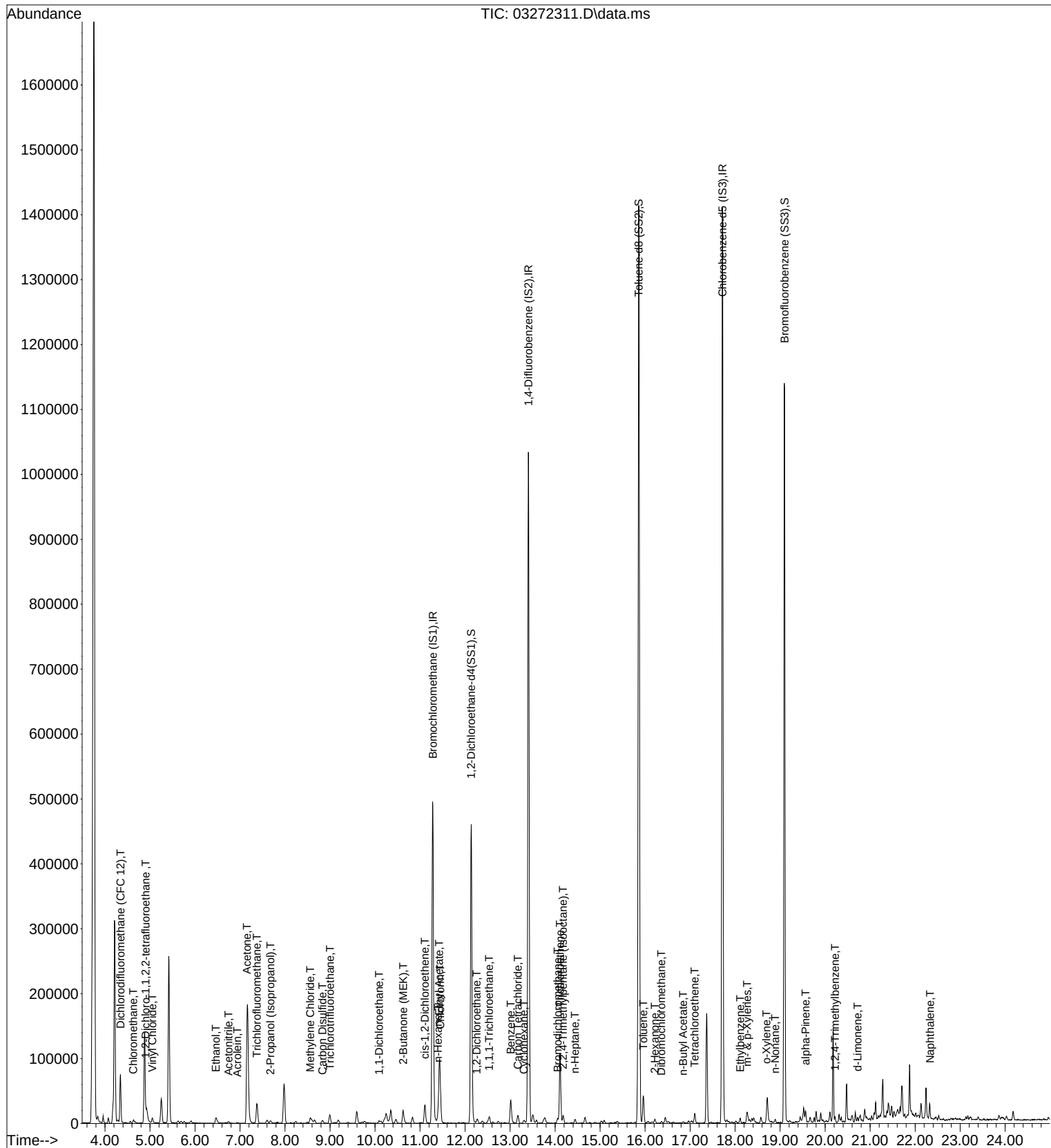
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.44	71	1310	0.069	ng	89
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.	d	
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.96	91	32572	0.427	ng	99
59) 2-Hexanone	16.22	43	5398	0.134	ng	84
60) Dibromochloromethane	16.36	129	1137	0.059	ng	96
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.84	43	2302	0.050	ng	93
63) n-Octane	16.97	57	488	N.D.		
64) Tetrachloroethene	17.10	166	4707	0.242	ng	99
65) Chlorobenzene	17.76	112	110	N.D.		
66) Ethylbenzene	18.11	91	6019	0.070	ng	96
67) m- & p-Xylenes	18.27	91	13769	0.202	ng	100
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.60	104	1010	N.D.		
70) o-Xylene	18.70	91	5302	0.079	ng	95
71) n-Nonane	18.89	43	2961	0.062	ng	# 77
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	19.21	105	882	N.D.		
75) alpha-Pinene	19.57	93	6777	0.312	ng	# 1
76) n-Propylbenzene	19.67	91	1463	N.D.		
77) 3-Ethyltoluene	20.22	105	3941	No Calib	#	
78) 4-Ethyltoluene	19.80	105	1581	N.D.		
79) 1,3,5-Trimethylbenzene	19.86	105	1243	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.22	105	3941	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.22	105	3941	0.057	ng	87
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	20.36	146	115	N.D.		
86) 1,4-Dichlorobenzene	20.41	146	358	N.D.		
87) sec-Butylbenzene	20.46	105	482	N.D.		
88) 4-Isopropyltoluene (p-...	20.59	119	3072	N.D.		
89) 1,2,3-Trimethylbenzene	20.22	105	3941	No Calib	#	
90) 1,2-Dichlorobenzene	20.72	146	169	N.D.		
91) d-Limonene	20.72	68	1805	0.092	ng	99
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	21.40	58	440	No Calib	#	
94) 1,2,4-Trichlorobenzene	22.22	180	613	N.D.		
95) Naphthalene	22.33	128	5268	0.063	ng	100
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	18.20	55	295	No Calib	#	
99) tert-Butylbenzene	20.22	119	626	N.D.		
100) n-Butylbenzene	20.96	91	1373	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\27\03272311.D
Acq On : 27 Mar 2023 10:36
Sample : P2301250-059 (1000mL)
Misc : S35-01312301

Vial: 7
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 11:56:47 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



Data File : I:\MS16\DATA\2023_03\27\03272311.D
 Acq On : 27 Mar 2023 10:36
 Sample : P2301250-059 (1000mL)
 Misc : S35-01312301

Vial: 7
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 11:56:47 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	198989	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	919275	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.72	54	199035	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	354591	13.400	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	107.20%	
57) Toluene-d8 (SS2)	15.86	98	1056153	12.121	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	96.96%	
73) Bromofluorobenzene (SS3)	19.10	174	312944	11.515	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	92.08%	

Target Compounds

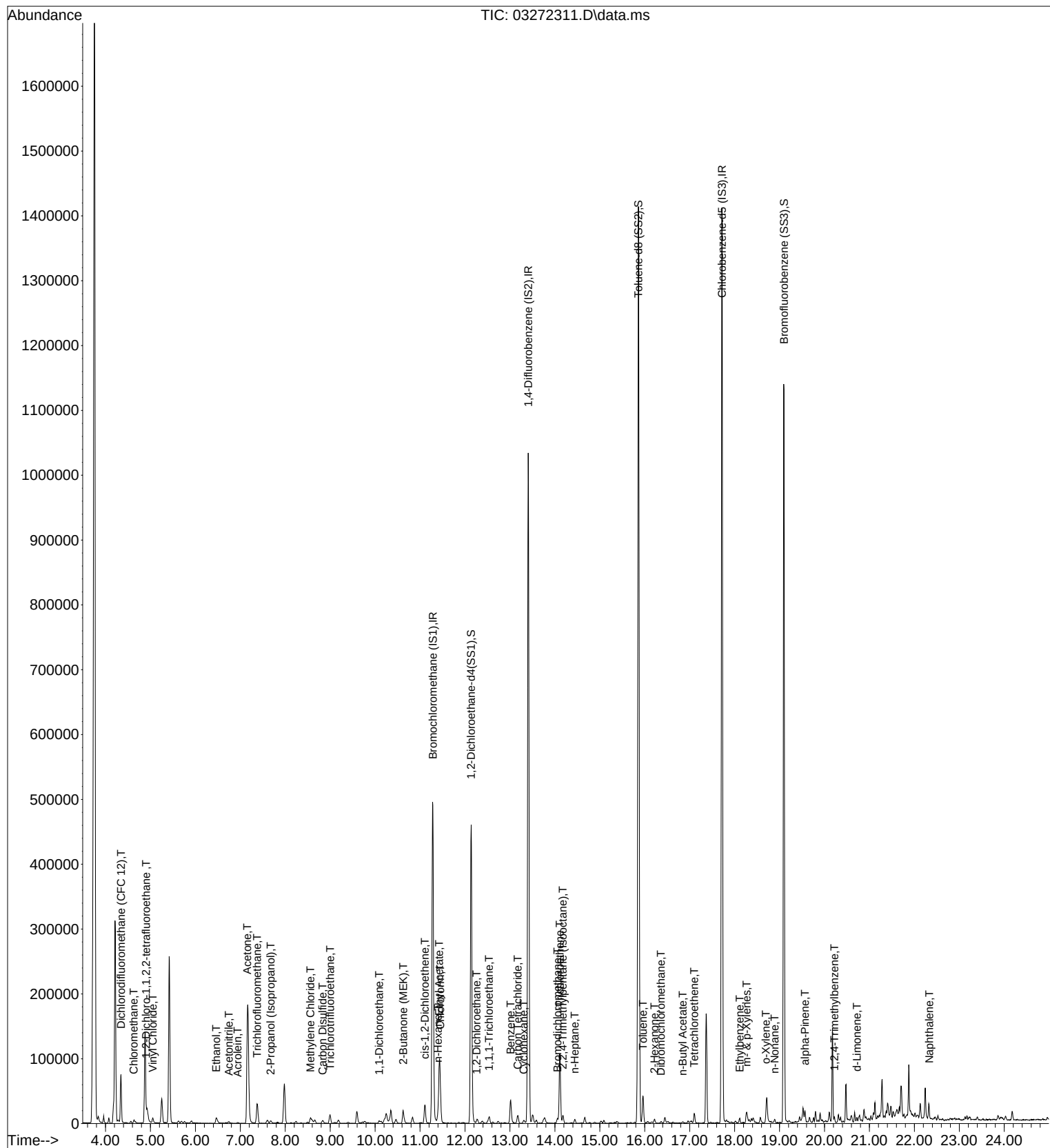
						Qvalue
3) Dichlorodifluoromethan...	4.34	85	64948	2.184	ng	100
4) Chloromethane	4.63	50	3814	0.137	ng	92
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	1441	0.087	ng	100
6) Vinyl Chloride	5.05	62	8784	0.340	ng	100
10) Ethanol	6.47	45	14515	0.758	ng	95
11) Acetonitrile	6.75	41	3743	0.078	ng	86
12) Acrolein	6.94	56	1279	0.094	ng	98
13) Acetone	7.15	58	47790	3.263	ng	# 40
14) Trichlorofluoromethane	7.37	101	30045	1.095	ng	99
15) 2-Propanol (Isopropanol)	7.68	45	6734	0.132	ng	89
19) Methylene Chloride	8.56	84	4527	0.280	ng	86
21) Trichlorotrifluoroethane	9.00	151	5592	0.409	ng	96
22) Carbon Disulfide	8.83	76	9247	0.160	ng	94
24) 1,1-Dichloroethane	10.09	63	4855	0.164	ng	99
27) 2-Butanone (MEK)	10.62	72	7090	0.668	ng	97
28) cis-1,2-Dichloroethene	11.11	61	19555	0.802	ng	95
30) Ethyl Acetate	11.43	61	14427	2.078	ng	97
31) n-Hexane	11.40	57	7416	0.213	ng	# 96
32) Chloroform	11.45	83	31995	1.205	ng	100
36) 1,2-Dichloroethane	12.26	62	1194	0.055	ng	85
38) 1,1,1-Trichloroethane	12.54	97	6347	0.255	ng	98
41) Benzene	13.02	78	22501	0.348	ng	100
42) Carbon Tetrachloride	13.18	117	7427	0.353	ng	96
43) Cyclohexane	13.31	84	1554	0.057	ng	89
46) Bromodichloromethane	14.06	83	5317	0.249	ng	90
47) Trichloroethene	14.11	130	38525	2.188	ng	99
49) 2,2,4-Trimethylpentane...	14.18	57	11459	0.131	ng	79
51) n-Heptane	14.44	71	1310	0.069	ng	89
58) Toluene	15.96	91	32572	0.427	ng	99
59) 2-Hexanone	16.22	43	5398	0.134	ng	84
60) Dibromochloromethane	16.36	129	1137	0.059	ng	96
62) n-Butyl Acetate	16.84	43	2302	0.050	ng	93
64) Tetrachloroethene	17.10	166	4707	0.242	ng	99
66) Ethylbenzene	18.11	91	6019	0.070	ng	96
67) m- & p-Xylenes	18.27	91	13769	0.202	ng	100
70) o-Xylene	18.70	91	5302	0.079	ng	95
71) n-Nonane	18.89	43	2961	0.062	ng	# 77
75) alpha-Pinene	19.57	93	6777	0.312	ng	# 1
82) 1,2,4-Trimethylbenzene	20.22	105	3941	0.057	ng	87
91) d-Limonene	20.72	68	1805	0.092	ng	99
95) Naphthalene	22.33	128	5268	0.063	ng	100

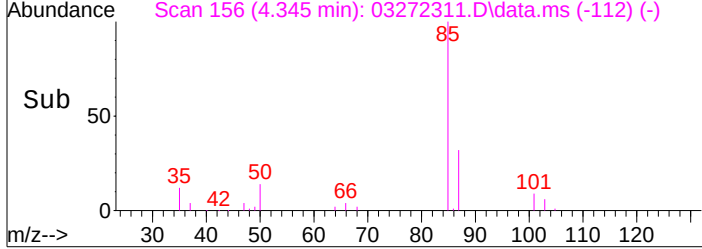
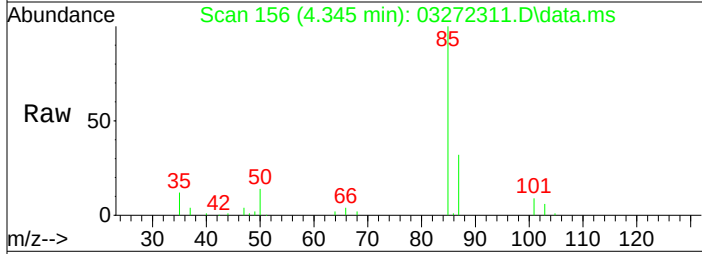
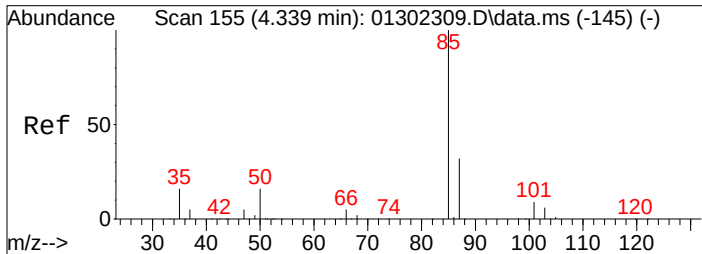
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS16\DATA\2023_03\27\03272311.D
Acq On : 27 Mar 2023 10:36
Sample : P2301250-059 (1000mL)
Misc : S35-01312301

Vial: 7
Operator: WA
Inst : GCMS-16

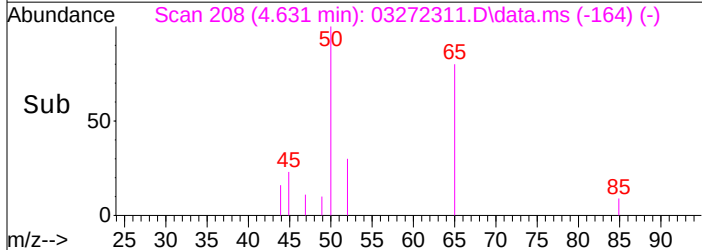
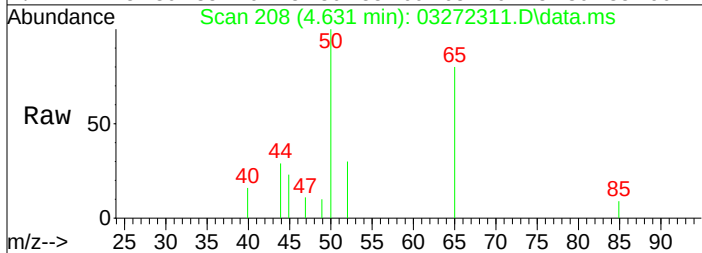
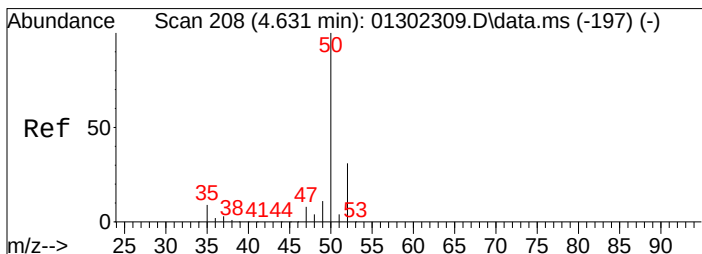
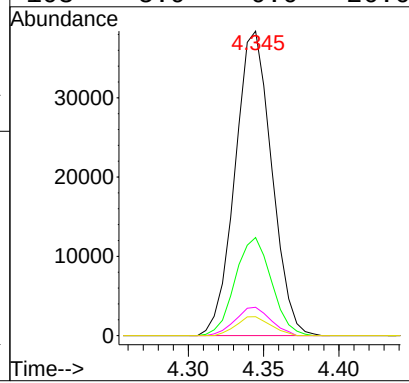
Quant Time: Mar 27 11:56:47 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M





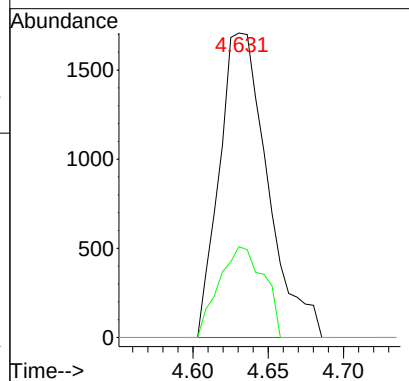
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 2.18 ng
 RT: 4.34 min Scan# 156
 Delta R.T. -0.005 min
 Lab File: 03272311.D
 Acq: 27 Mar 2023 10:36

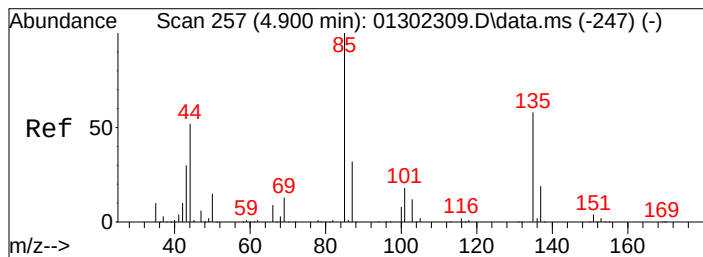
Tgt Ion:	85	Resp:	64948
Ion Ratio	Lower	Upper	
85	100		
87	31.9	12.1	52.1
101	9.1	0.0	29.3
103	5.9	0.0	26.0



#4
 Chloromethane
 Concen: 0.14 ng
 RT: 4.63 min Scan# 208
 Delta R.T. -0.005 min
 Lab File: 03272311.D
 Acq: 27 Mar 2023 10:36

Tgt Ion:	50	Resp:	3814
Ion Ratio	Lower	Upper	
50	100		
52	27.7	12.2	52.2





#5

1,2-Dichloro-1,1,2,2-tetrafluoroethane

Concen: 0.09 ng

RT: 4.91 min Scan# 258

Delta R.T. 0.000 min

Lab File: 03272311.D

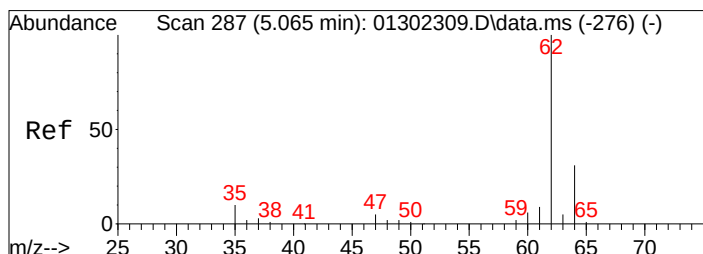
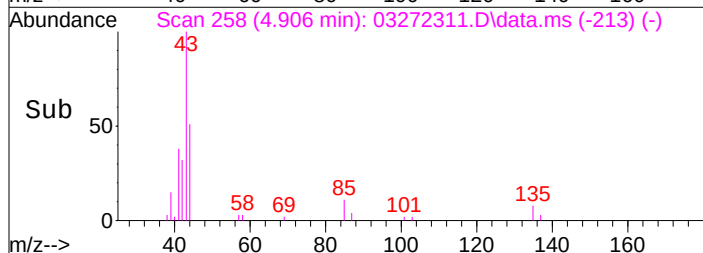
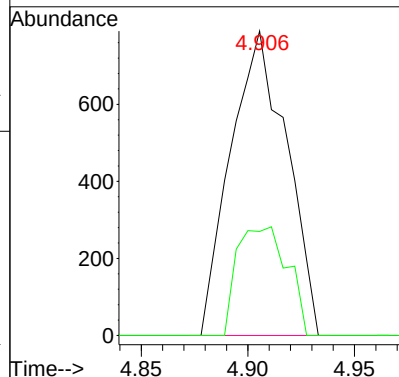
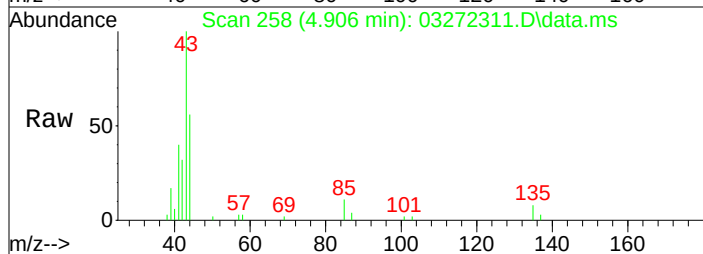
Acq: 27 Mar 2023 10:36

Tgt Ion: 135 Resp: 1441

Ion Ratio Lower Upper

135 100

137 32.1 12.0 52.0



#6

Vinyl Chloride

Concen: 0.34 ng

RT: 5.05 min Scan# 285

Delta R.T. -0.011 min

Lab File: 03272311.D

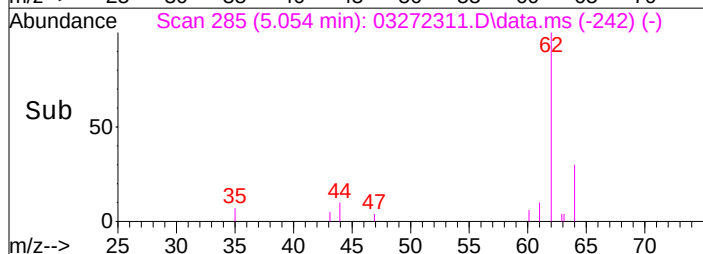
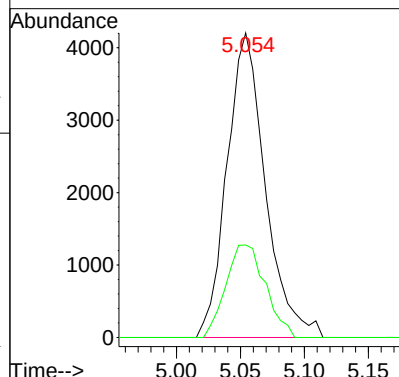
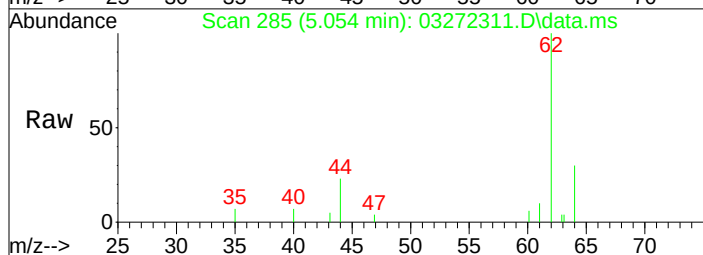
Acq: 27 Mar 2023 10:36

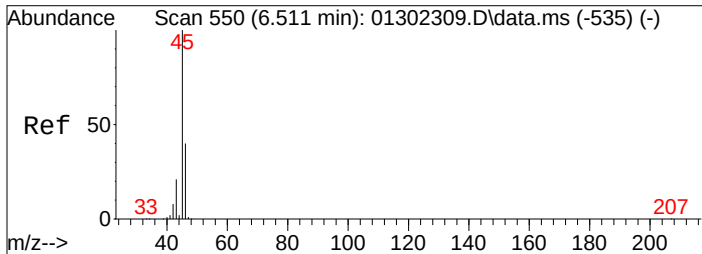
Tgt Ion: 62 Resp: 8784

Ion Ratio Lower Upper

62 100

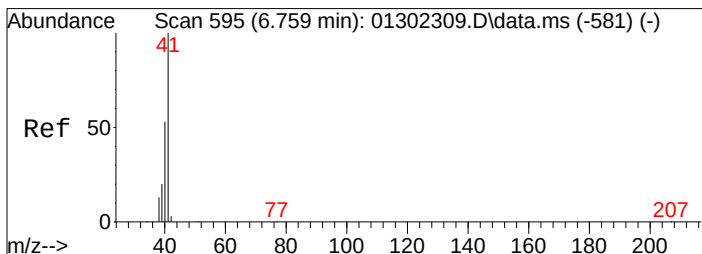
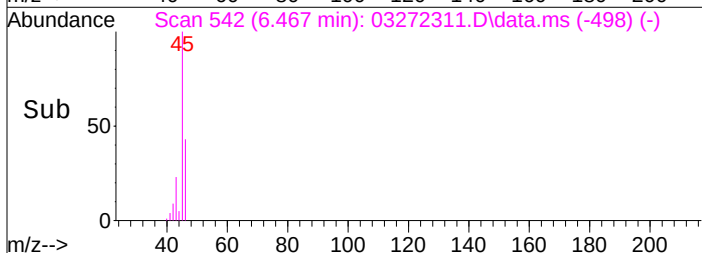
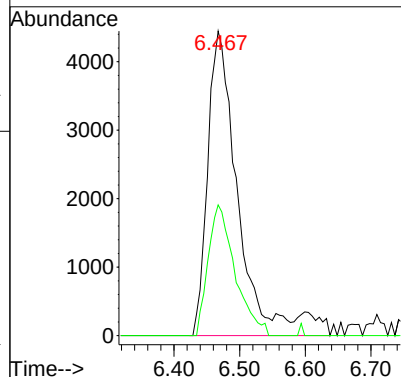
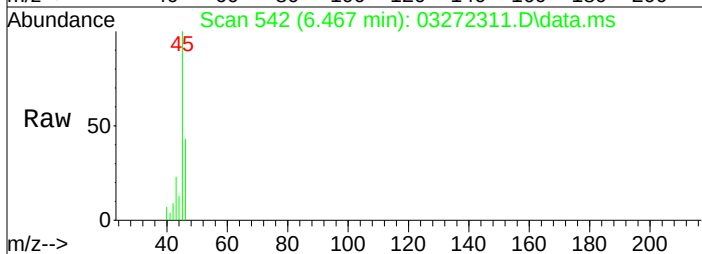
64 31.3 11.6 51.6





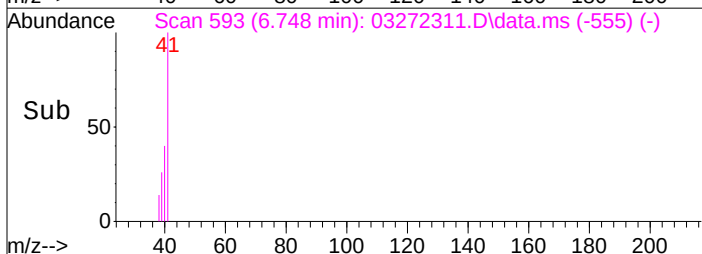
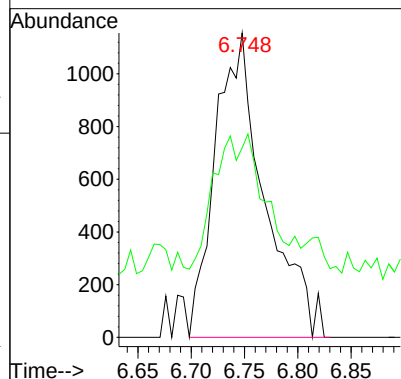
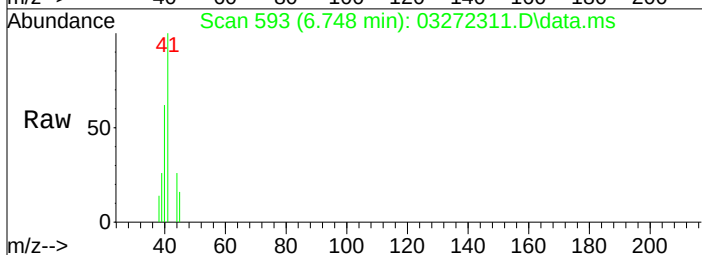
#10
 Ethanol
 Concen: 0.76 ng
 RT: 6.47 min Scan# 542
 Delta R.T. -0.011 min
 Lab File: 03272311.D
 Acq: 27 Mar 2023 10:36

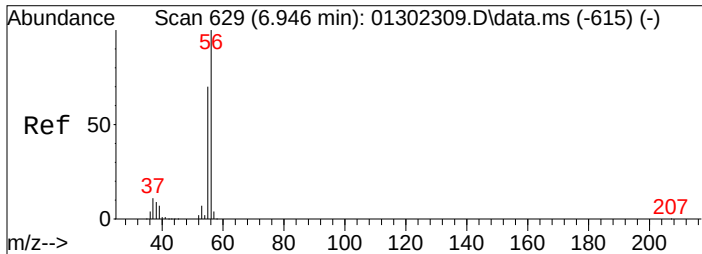
Tgt Ion:	45	Resp:	14515
Ion Ratio		Lower	Upper
45	100		
46	37.5	20.5	60.5



#11
 Acetonitrile
 Concen: 0.08 ng
 RT: 6.75 min Scan# 593
 Delta R.T. 0.011 min
 Lab File: 03272311.D
 Acq: 27 Mar 2023 10:36

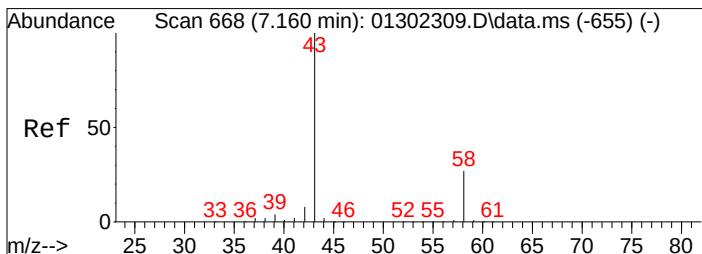
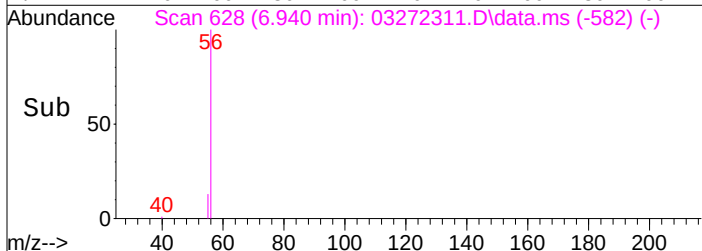
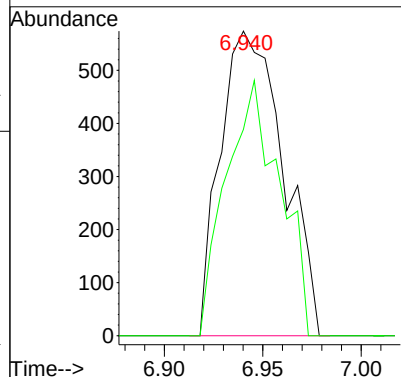
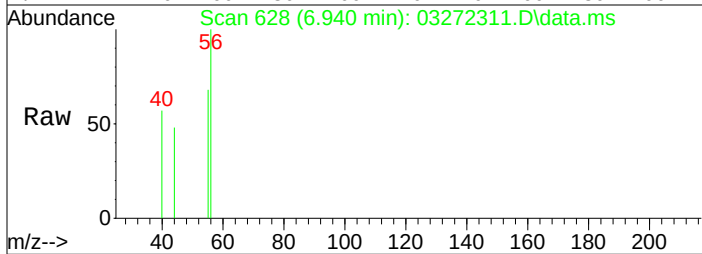
Tgt Ion:	41	Resp:	3743
Ion Ratio		Lower	Upper
41	100		
40	62.2	32.4	72.4





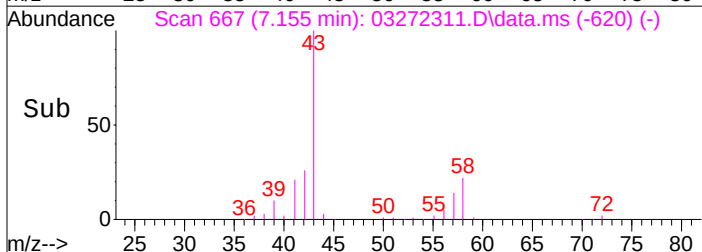
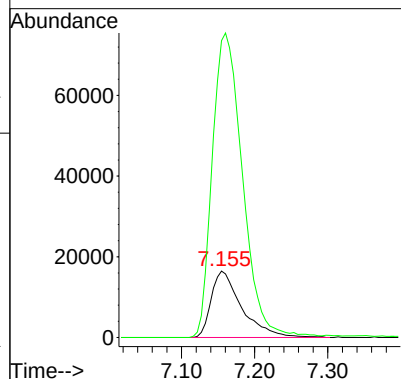
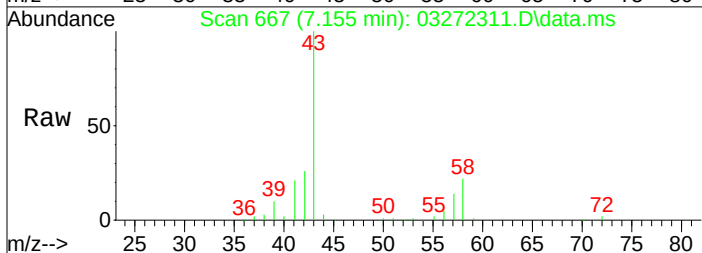
#12
Acrolein
Concen: 0.09 ng
RT: 6.94 min Scan# 628
Delta R.T. 0.005 min
Lab File: 03272311.D
Acq: 27 Mar 2023 10:36

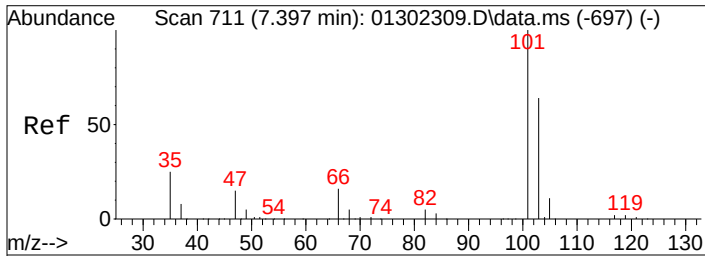
Tgt Ion: 56 Resp: 1279
Ion Ratio Lower Upper
56 100
55 71.3 49.9 89.9



#13
Acetone
Concen: 3.26 ng
RT: 7.15 min Scan# 667
Delta R.T. 0.011 min
Lab File: 03272311.D
Acq: 27 Mar 2023 10:36

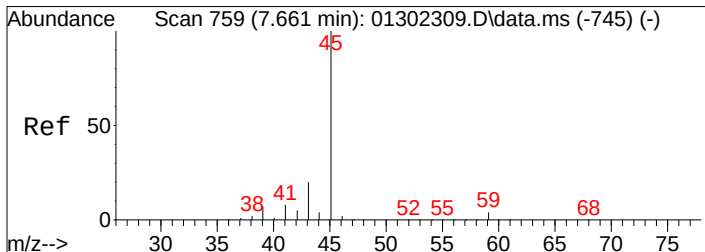
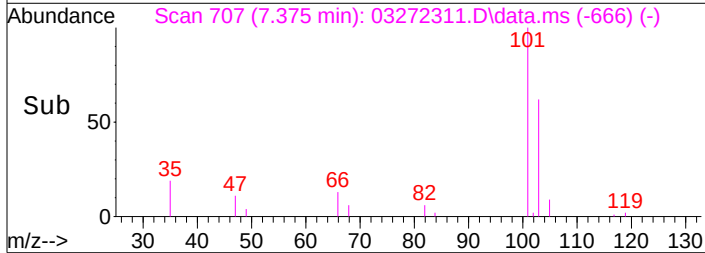
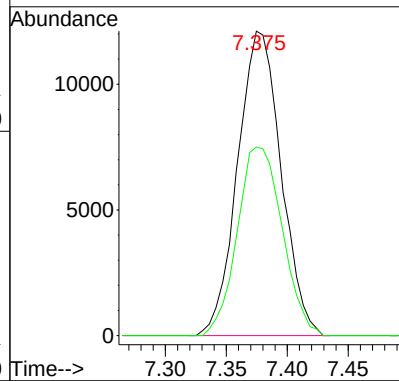
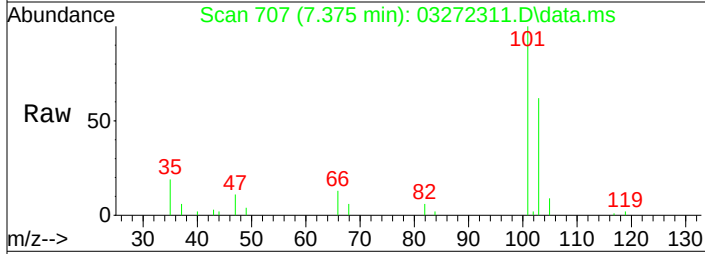
Tgt Ion: 58 Resp: 47790
Ion Ratio Lower Upper
58 100
43 453.7 298.5 358.5#





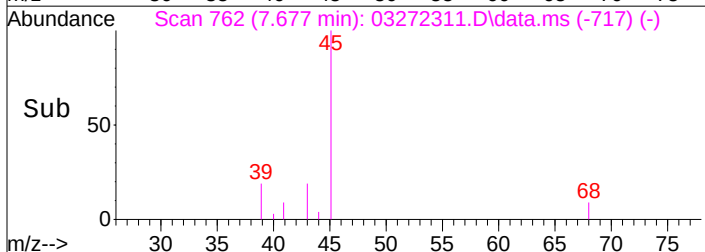
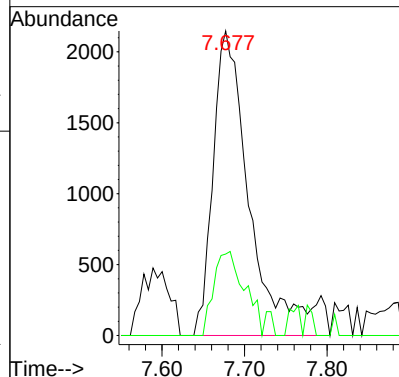
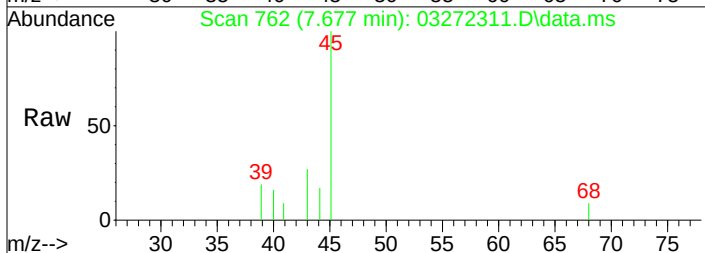
#14
 Trichlorofluoromethane
 Concen: 1.09 ng
 RT: 7.37 min Scan# 707
 Delta R.T. -0.022 min
 Lab File: 03272311.D
 Acq: 27 Mar 2023 10:36

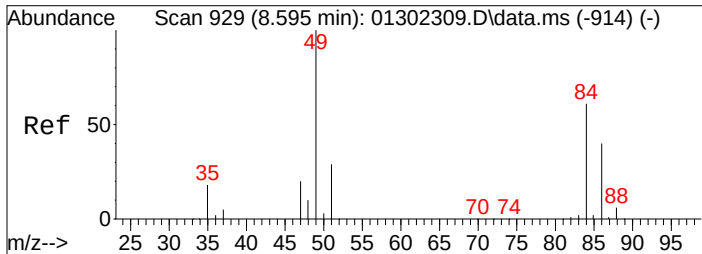
Tgt Ion: 101 Resp: 30045
 Ion Ratio Lower Upper
 101 100
 103 64.2 44.8 84.8



#15
 2-Propanol (Isopropanol)
 Concen: 0.13 ng
 RT: 7.68 min Scan# 762
 Delta R.T. -0.003 min
 Lab File: 03272311.D
 Acq: 27 Mar 2023 10:36

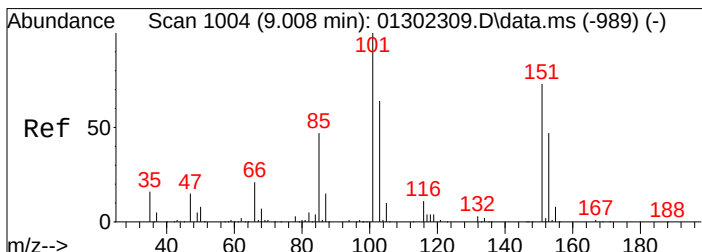
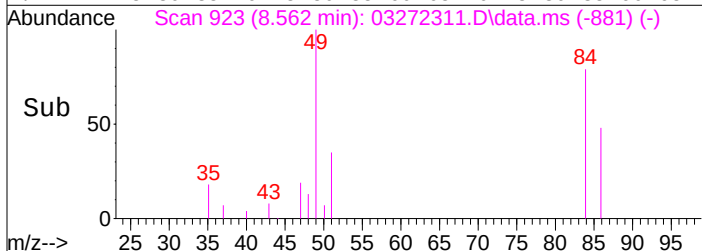
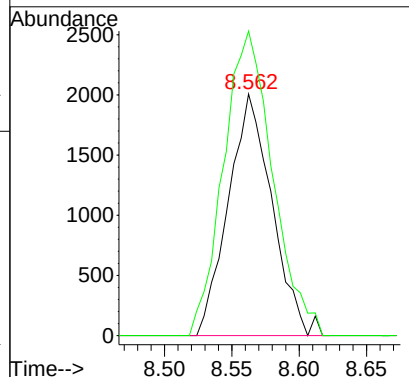
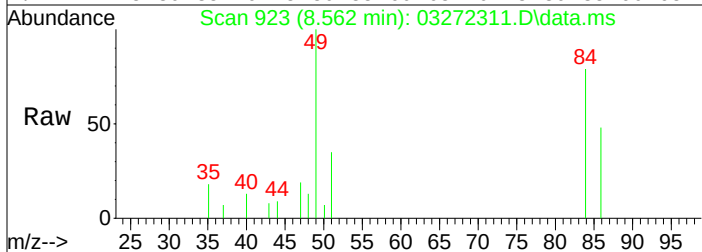
Tgt Ion: 45 Resp: 6734
 Ion Ratio Lower Upper
 45 100
 43 22.8 0.0 37.9





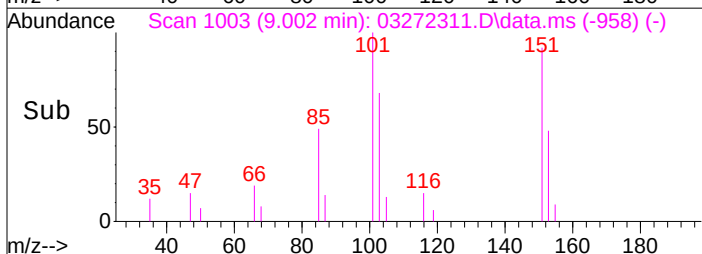
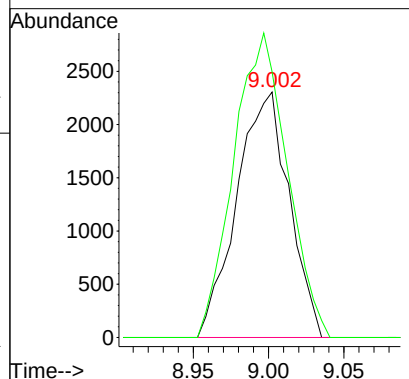
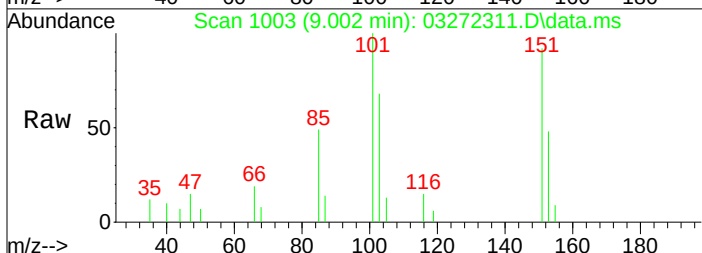
#19
 Methylene Chloride
 Concen: 0.28 ng
 RT: 8.56 min Scan# 923
 Delta R.T. -0.016 min
 Lab File: 03272311.D
 Acq: 27 Mar 2023 10:36

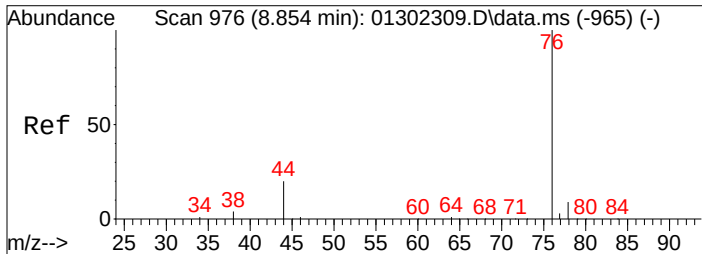
Tgt Ion:	84	Resp:	4527
Ion Ratio	Lower	Upper	
84	100		
49	142.1	135.0	185.0



#21
 Trichlorotrifluoroethane
 Concen: 0.41 ng
 RT: 9.00 min Scan# 1003
 Delta R.T. 0.000 min
 Lab File: 03272311.D
 Acq: 27 Mar 2023 10:36

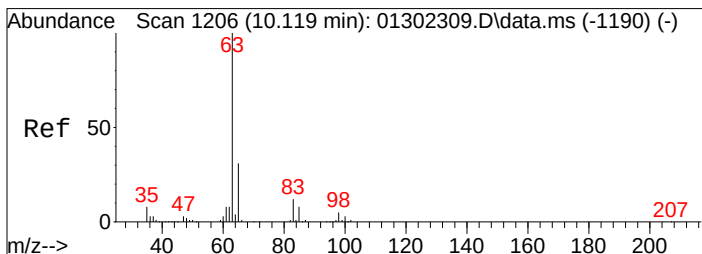
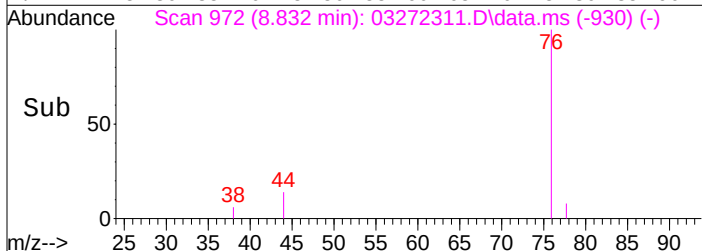
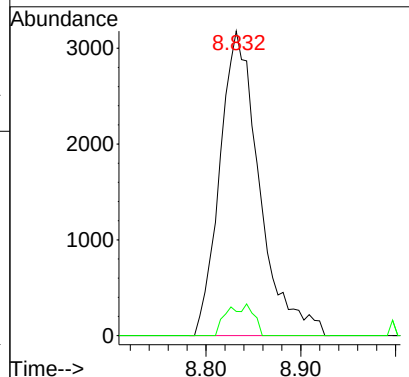
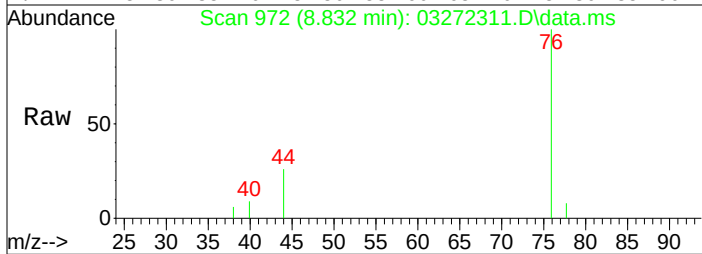
Tgt Ion:	151	Resp:	5592
Ion Ratio	Lower	Upper	
151	100		
101	126.4	101.5	141.5





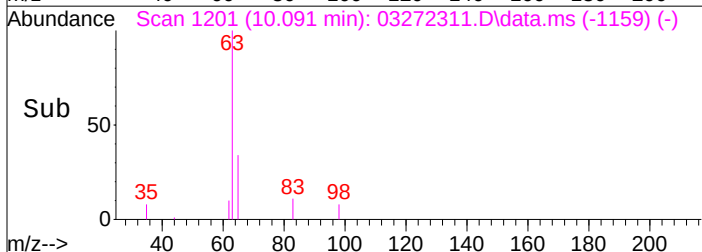
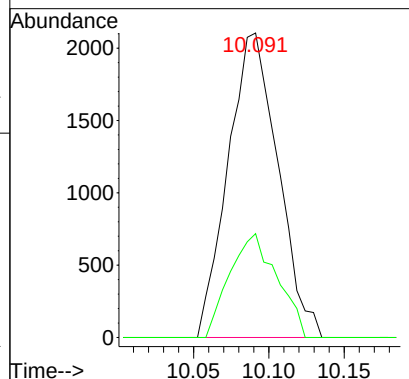
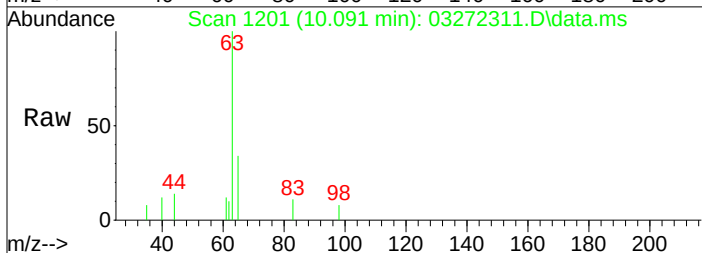
#22
Carbon Disulfide
Concen: 0.16 ng
RT: 8.83 min Scan# 972
Delta R.T. -0.016 min
Lab File: 03272311.D
Acq: 27 Mar 2023 10:36

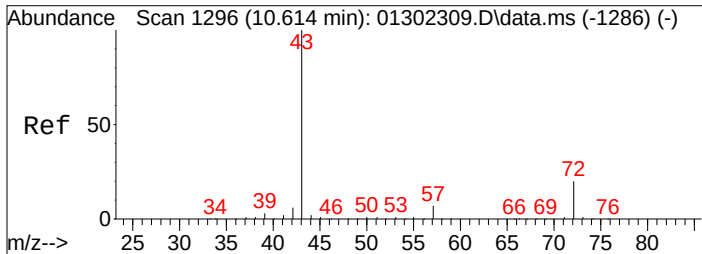
Tgt Ion: 76 Resp: 9247
Ion Ratio Lower Upper
76 100
78 7.0 0.0 29.1



#24
1,1-Dichloroethane
Concen: 0.16 ng
RT: 10.09 min Scan# 1201
Delta R.T. -0.016 min
Lab File: 03272311.D
Acq: 27 Mar 2023 10:36

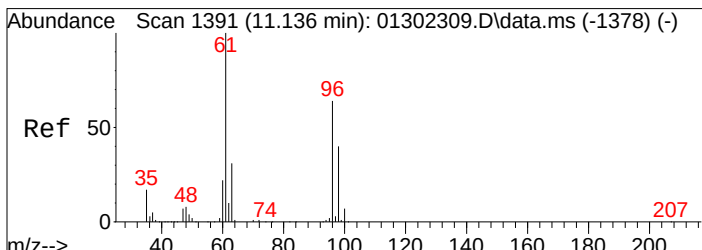
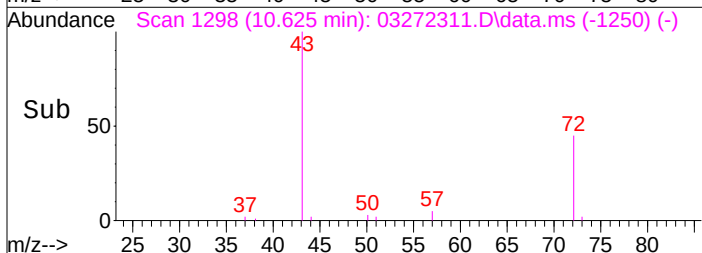
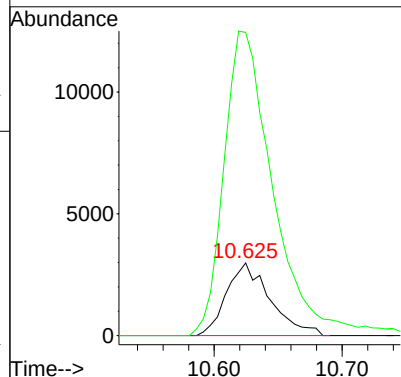
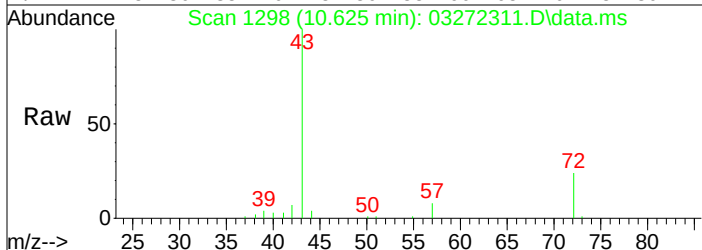
Tgt Ion: 63 Resp: 4855
Ion Ratio Lower Upper
63 100
65 32.4 11.7 51.7





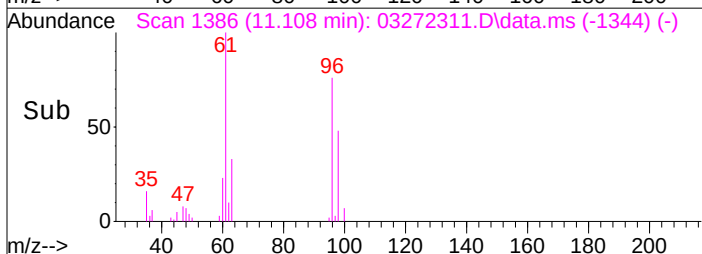
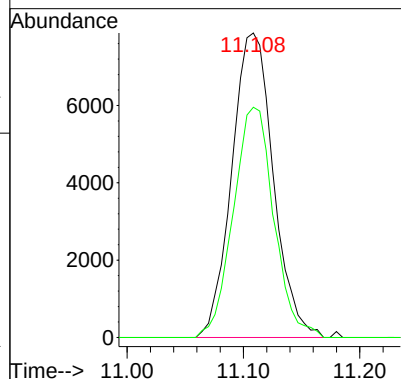
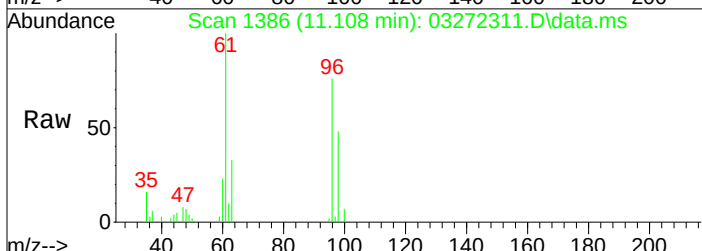
#27
2-Butanone (MEK)
Concen: 0.67 ng
RT: 10.62 min Scan# 1298
Delta R.T. 0.017 min
Lab File: 03272311.D
Acq: 27 Mar 2023 10:36

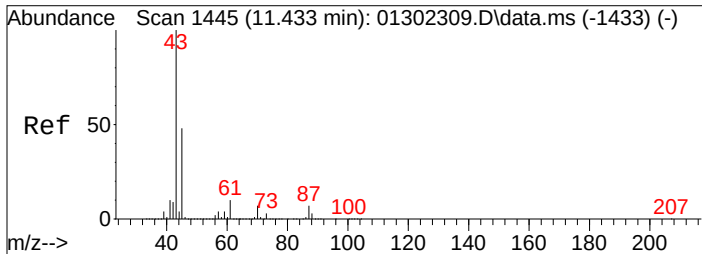
Tgt Ion	Ratio	Lower	Upper
72	100		
43	478.0	449.4	489.4



#28
cis-1,2-Dichloroethene
Concen: 0.80 ng
RT: 11.11 min Scan# 1386
Delta R.T. -0.017 min
Lab File: 03272311.D
Acq: 27 Mar 2023 10:36

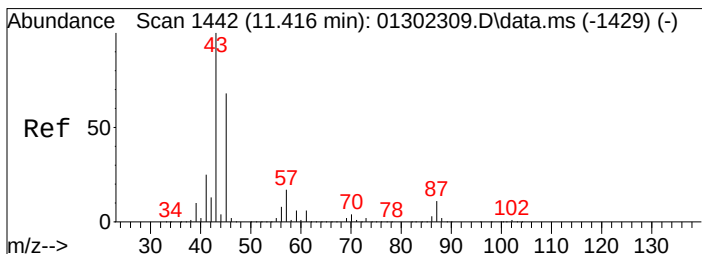
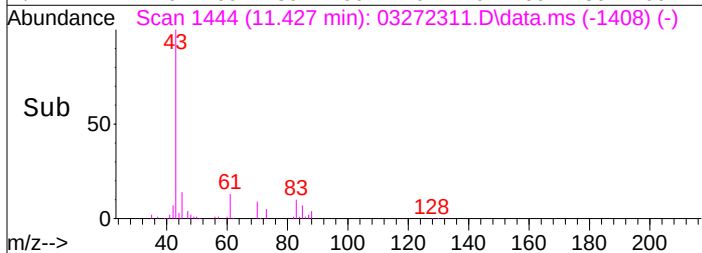
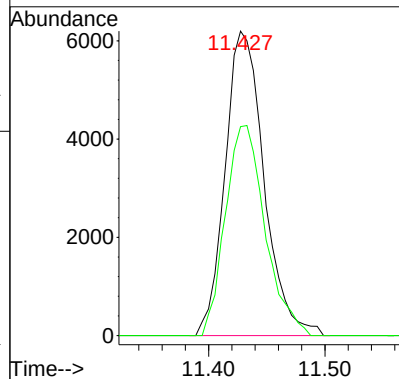
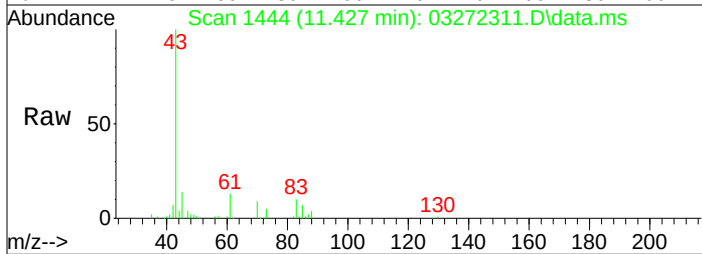
Tgt Ion	Ratio	Lower	Upper
61	100		
96	73.9	49.9	89.9





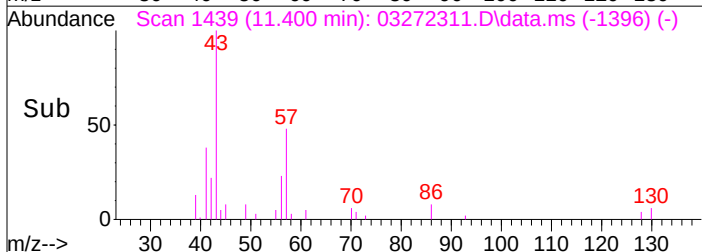
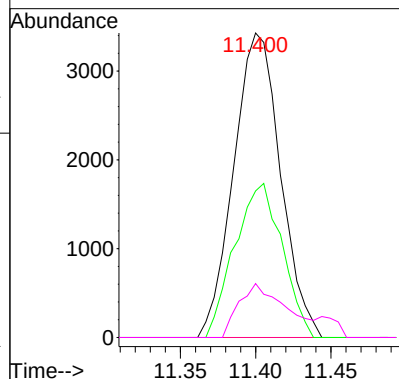
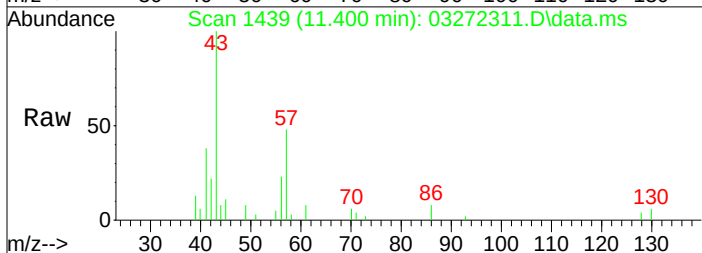
#30
Ethyl Acetate
Concen: 2.08 ng
RT: 11.43 min Scan# 1444
Delta R.T. 0.000 min
Lab File: 03272311.D
Acq: 27 Mar 2023 10:36

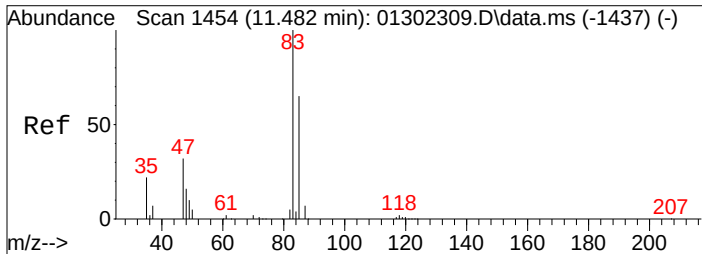
Tgt Ion: 61 Resp: 14427
Ion Ratio Lower Upper
61 100
70 70.4 52.8 92.8



#31
n-Hexane
Concen: 0.21 ng
RT: 11.40 min Scan# 1439
Delta R.T. -0.011 min
Lab File: 03272311.D
Acq: 27 Mar 2023 10:36

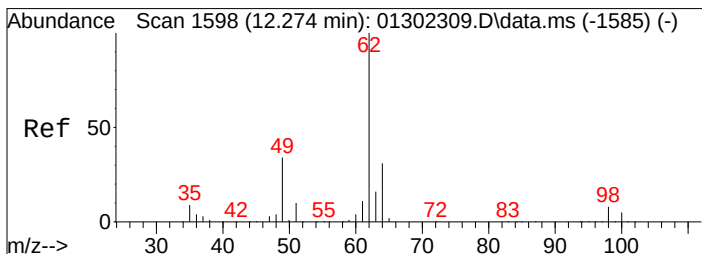
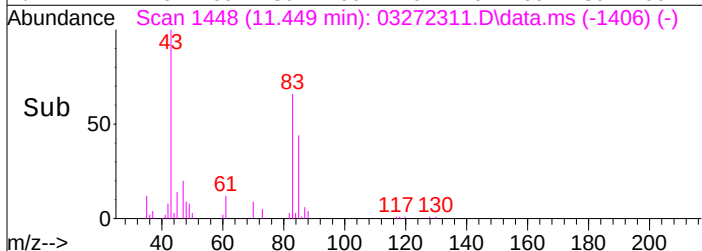
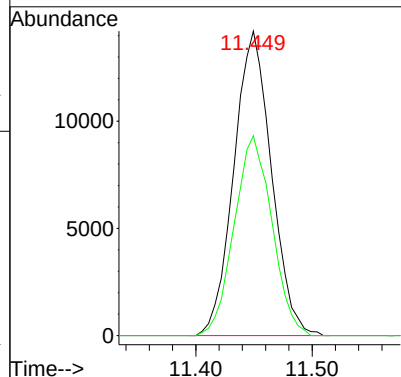
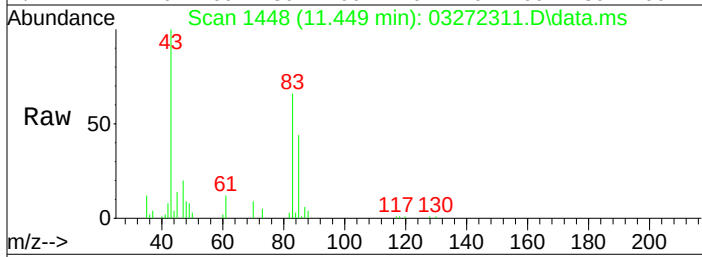
Tgt Ion: 57 Resp: 7416
Ion Ratio Lower Upper
57 100
56 51.2 39.9 59.9
86 20.7 12.3 18.5#





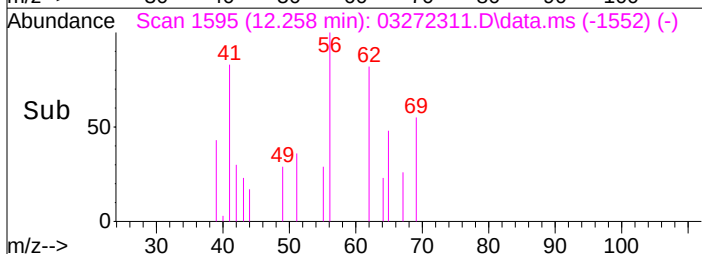
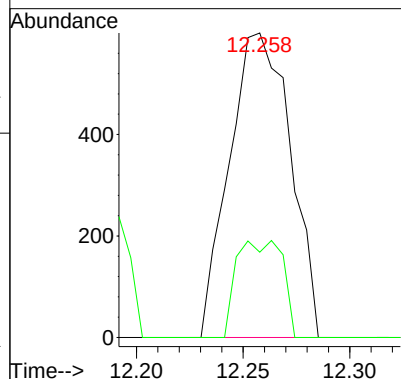
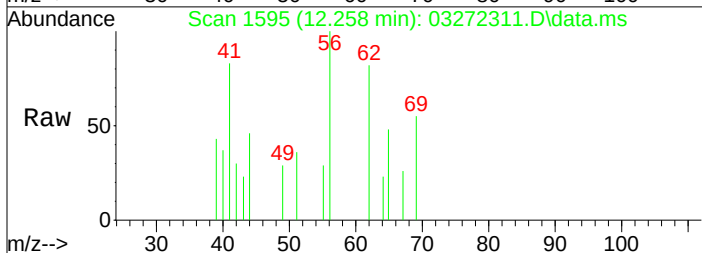
#32
Chloroform
Concen: 1.20 ng
RT: 11.45 min Scan# 1448
Delta R.T. -0.016 min
Lab File: 03272311.D
Acq: 27 Mar 2023 10:36

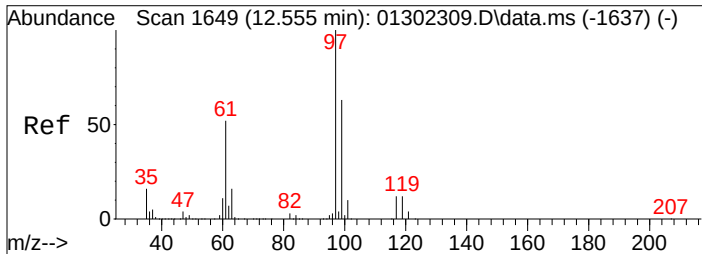
Tgt Ion: 83 Resp: 31995
Ion Ratio Lower Upper
83 100
85 65.9 45.5 85.5



#36
1,2-Dichloroethane
Concen: 0.06 ng
RT: 12.26 min Scan# 1595
Delta R.T. -0.011 min
Lab File: 03272311.D
Acq: 27 Mar 2023 10:36

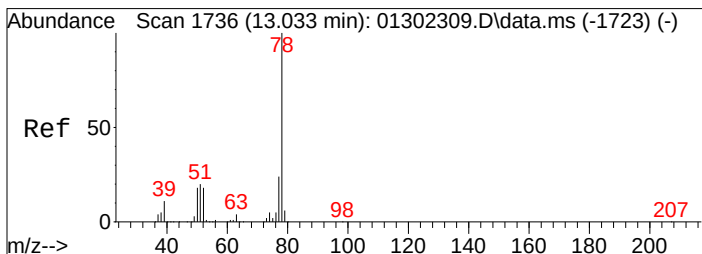
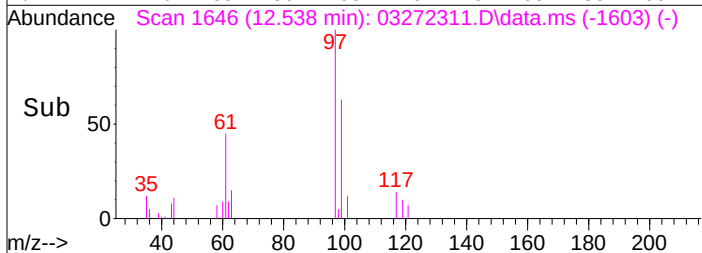
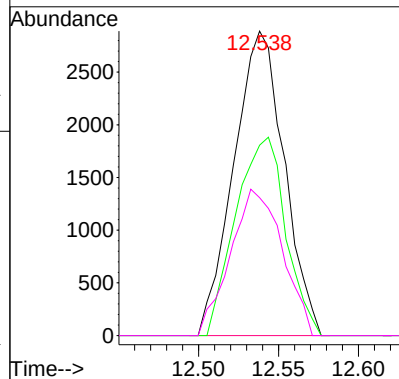
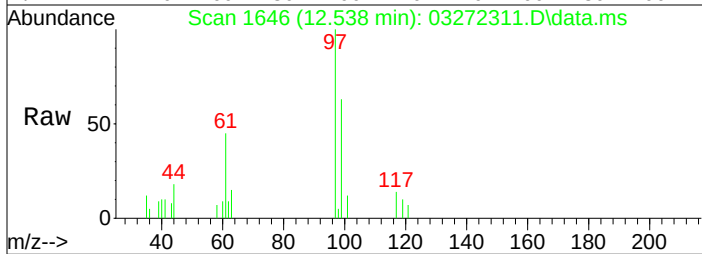
Tgt Ion: 62 Resp: 1194
Ion Ratio Lower Upper
62 100
64 24.0 12.5 52.5





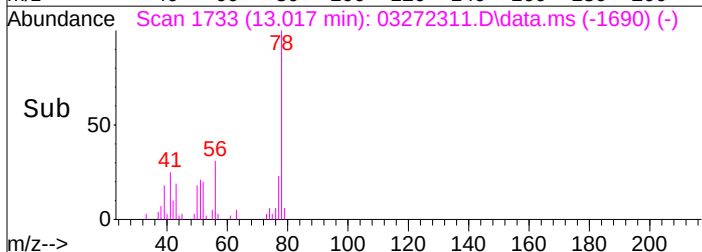
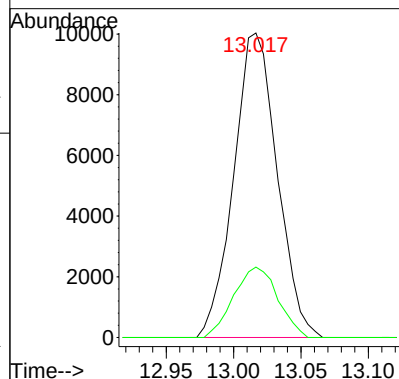
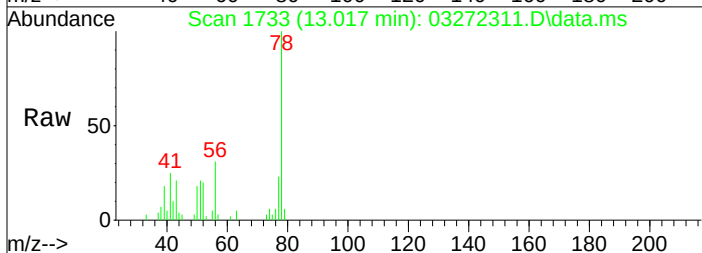
#38
 1,1,1-Trichloroethane
 Concen: 0.26 ng
 RT: 12.54 min Scan# 1646
 Delta R.T. -0.011 min
 Lab File: 03272311.D
 Acq: 27 Mar 2023 10:36

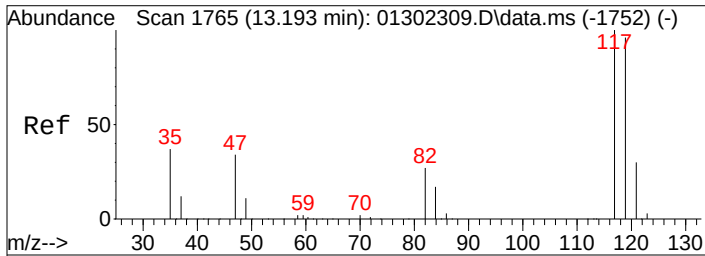
Tgt Ion:	97	Resp:	6347
Ion Ratio	Lower	Upper	
97	100		
99	64.7	44.0	84.0
61	49.5	26.8	66.8



#41
 Benzene
 Concen: 0.35 ng
 RT: 13.02 min Scan# 1733
 Delta R.T. -0.011 min
 Lab File: 03272311.D
 Acq: 27 Mar 2023 10:36

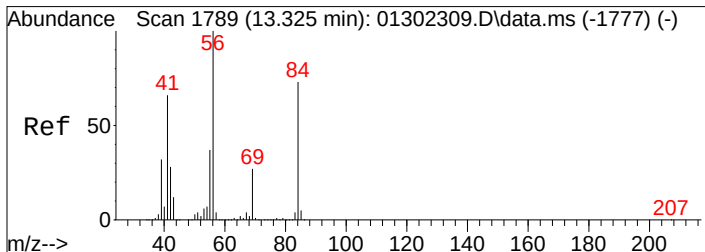
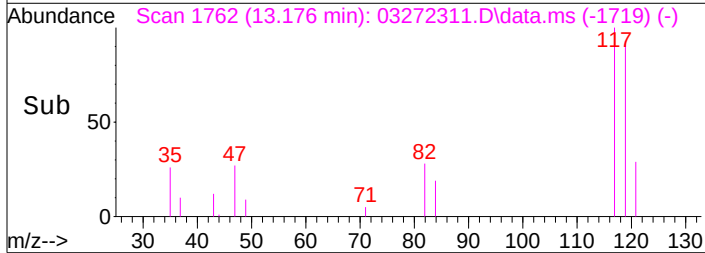
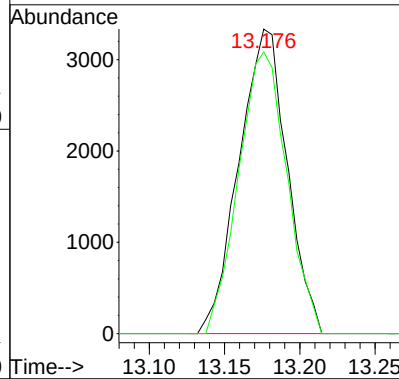
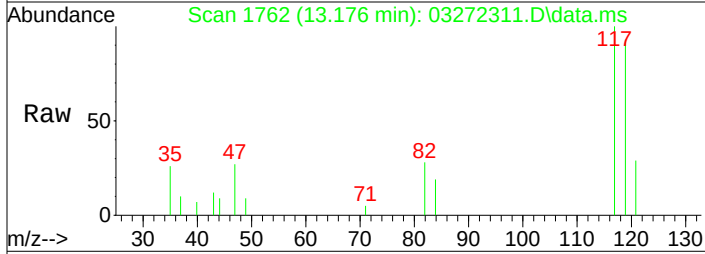
Tgt Ion:	78	Resp:	22501
Ion Ratio	Lower	Upper	
78	100		
77	23.5	3.3	43.3





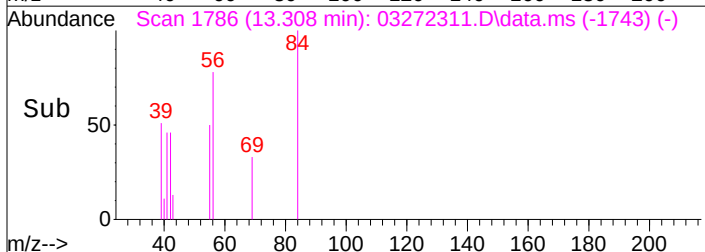
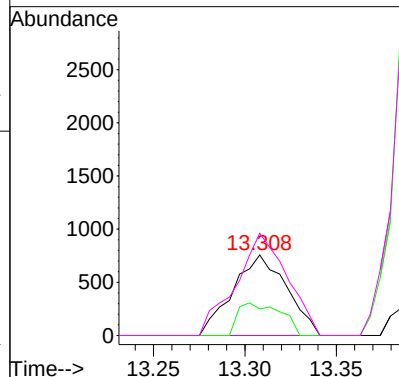
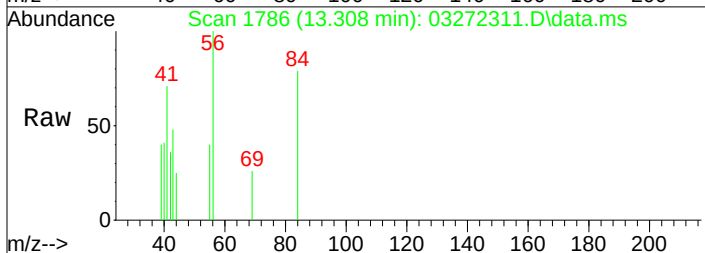
#42
Carbon Tetrachloride
Concen: 0.35 ng
RT: 13.18 min Scan# 1762
Delta R.T. -0.011 min
Lab File: 03272311.D
Acq: 27 Mar 2023 10:36

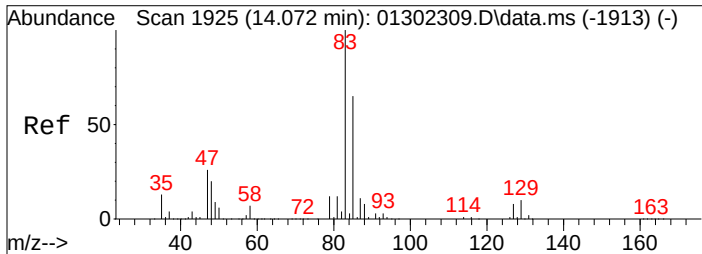
Tgt Ion: 117 Resp: 7427
Ion Ratio Lower Upper
117 100
119 92.4 76.2 116.2



#43
Cyclohexane
Concen: 0.06 ng
RT: 13.31 min Scan# 1786
Delta R.T. -0.011 min
Lab File: 03272311.D
Acq: 27 Mar 2023 10:36

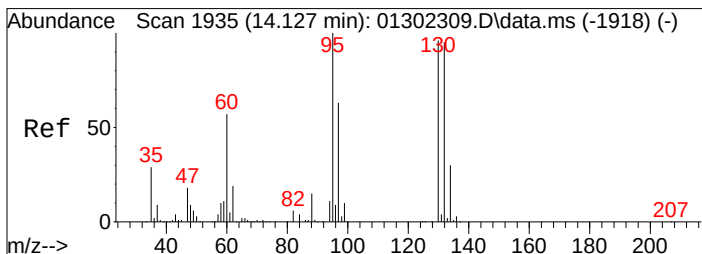
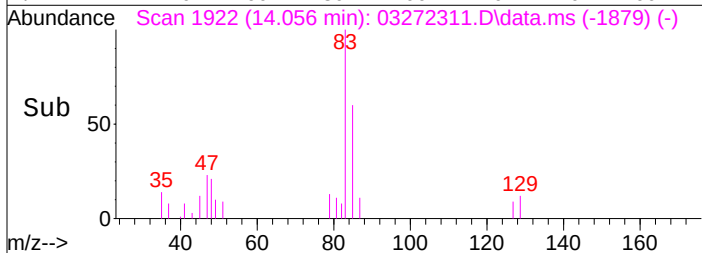
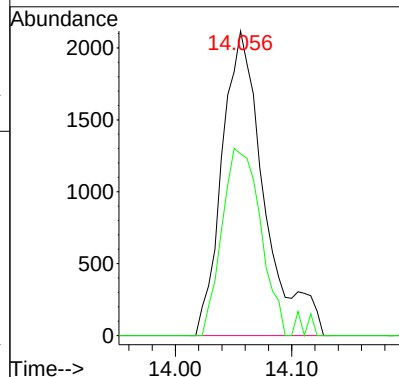
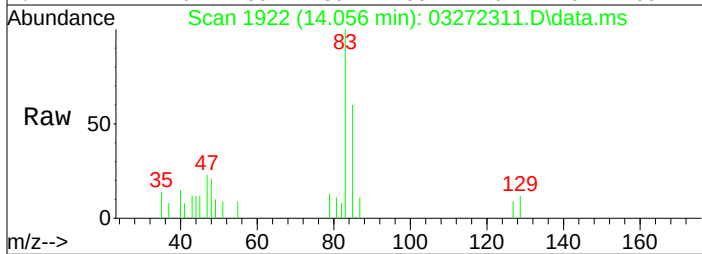
Tgt Ion: 84 Resp: 1554
Ion Ratio Lower Upper
84 100
69 31.9 16.2 56.2
56 121.1 115.2 155.2





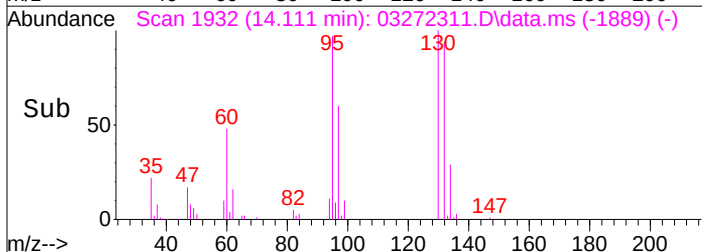
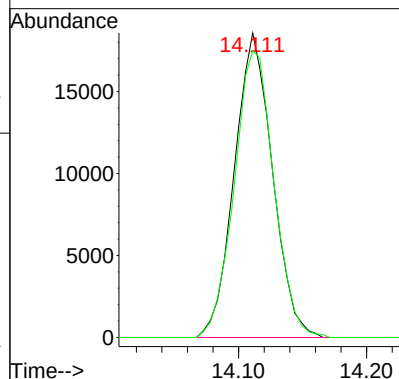
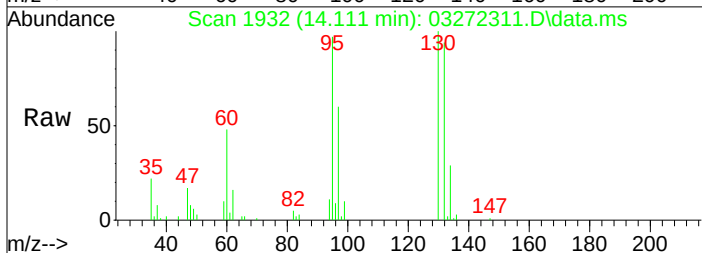
#46
Bromodichloromethane
Concen: 0.25 ng
RT: 14.06 min Scan# 1922
Delta R.T. -0.011 min
Lab File: 03272311.D
Acq: 27 Mar 2023 10:36

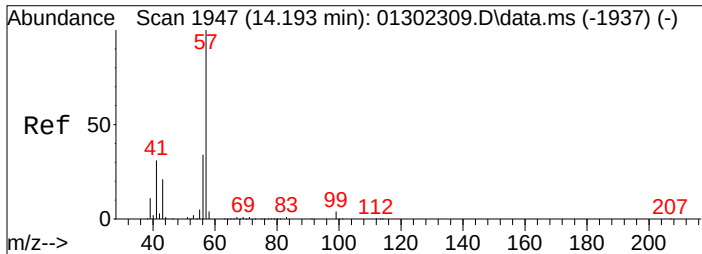
Tgt Ion: 83 Resp: 5317
Ion Ratio Lower Upper
83 100
85 56.5 44.3 84.3



#47
Trichloroethene
Concen: 2.19 ng
RT: 14.11 min Scan# 1932
Delta R.T. -0.011 min
Lab File: 03272311.D
Acq: 27 Mar 2023 10:36

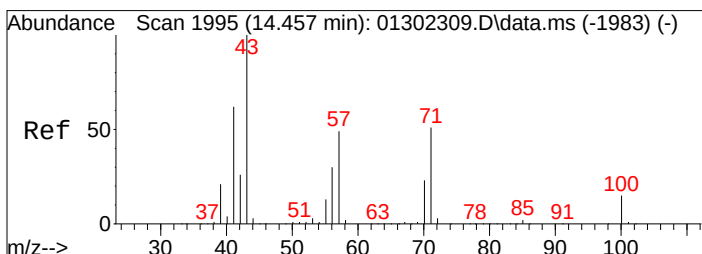
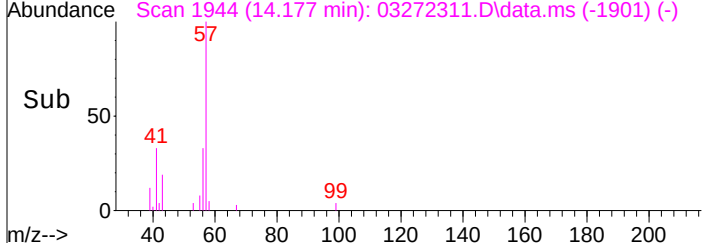
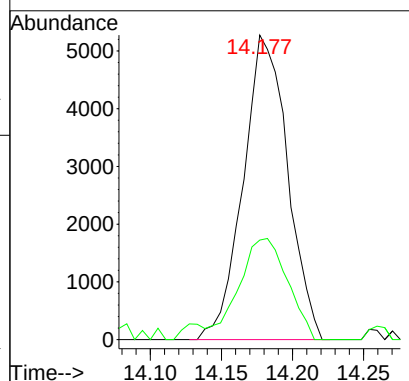
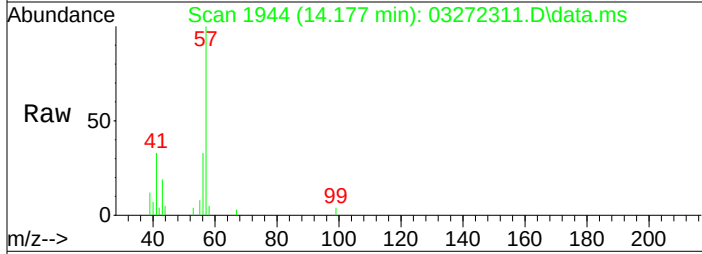
Tgt Ion: 130 Resp: 38525
Ion Ratio Lower Upper
130 100
132 98.0 78.7 118.7





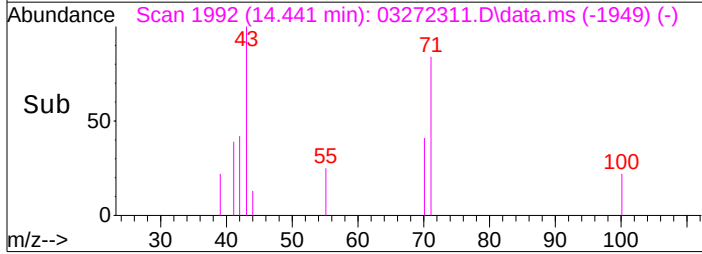
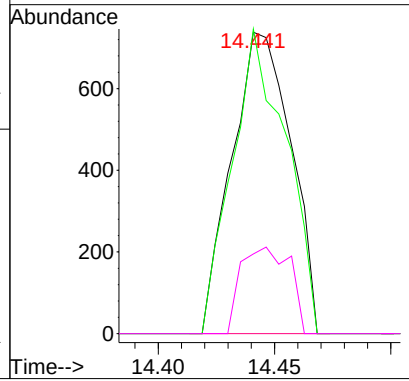
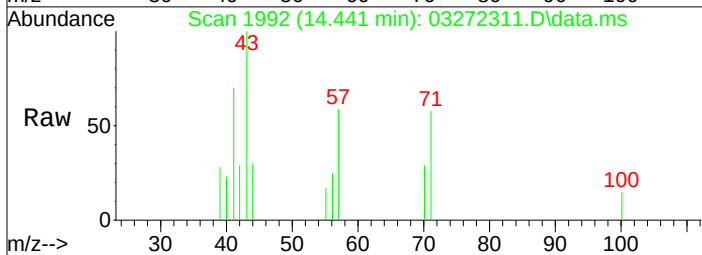
#49
 2,2,4-Trimethylpentane (Isooctane)
 Concen: 0.13 ng
 RT: 14.18 min Scan# 1944
 Delta R.T. -0.011 min
 Lab File: 03272311.D
 Acq: 27 Mar 2023 10:36

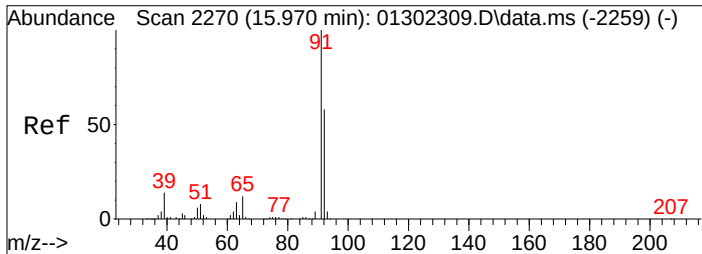
Tgt Ion:	57	Resp:	11459
Ion Ratio		Lower	Upper
57	100		
41	36.3	5.8	45.8



#51
 n-Heptane
 Concen: 0.07 ng
 RT: 14.44 min Scan# 1992
 Delta R.T. -0.011 min
 Lab File: 03272311.D
 Acq: 27 Mar 2023 10:36

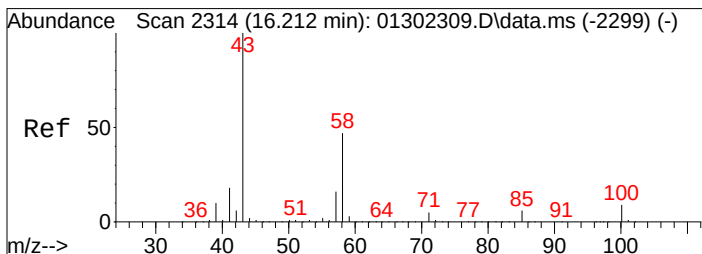
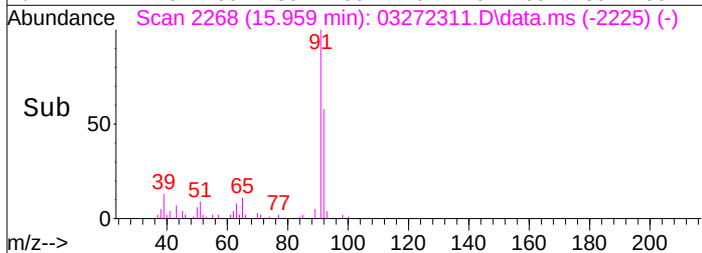
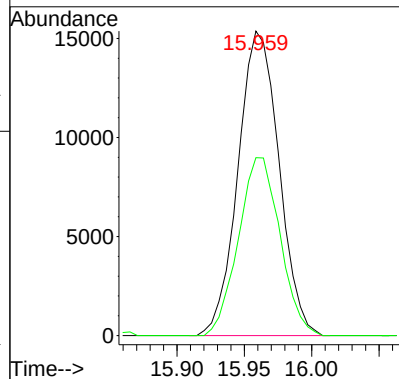
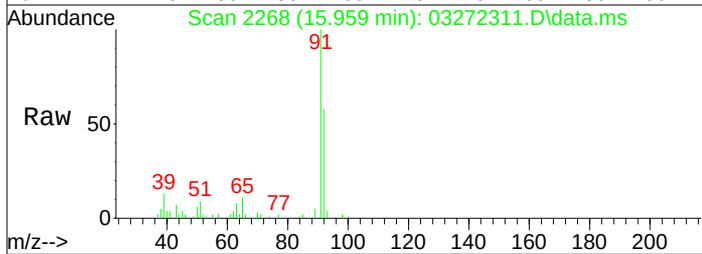
Tgt Ion:	71	Resp:	1310
Ion Ratio		Lower	Upper
71	100		
57	92.1	81.4	121.4
100	23.7	11.8	51.8





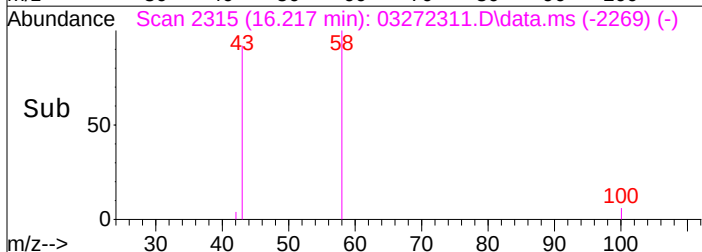
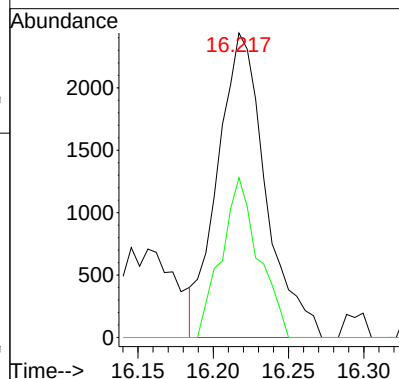
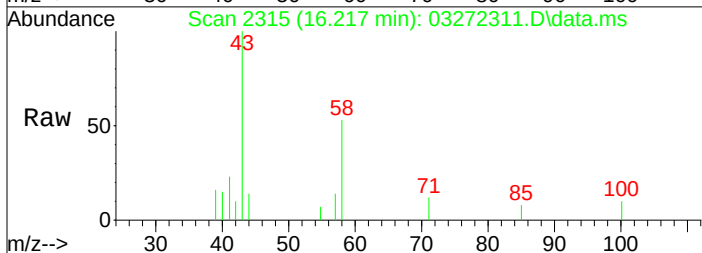
#58
Toluene
Concen: 0.43 ng
RT: 15.96 min Scan# 2268
Delta R.T. -0.011 min
Lab File: 03272311.D
Acq: 27 Mar 2023 10:36

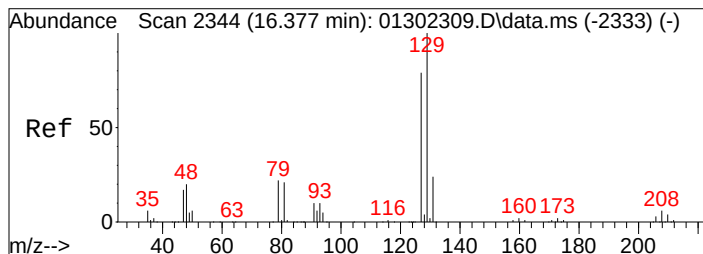
Tgt Ion: 91 Resp: 32572
Ion Ratio Lower Upper
91 100
92 59.3 39.8 79.8



#59
2-Hexanone
Concen: 0.13 ng
RT: 16.22 min Scan# 2315
Delta R.T. 0.006 min
Lab File: 03272311.D
Acq: 27 Mar 2023 10:36

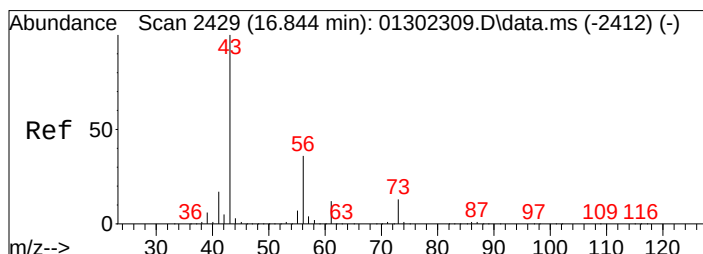
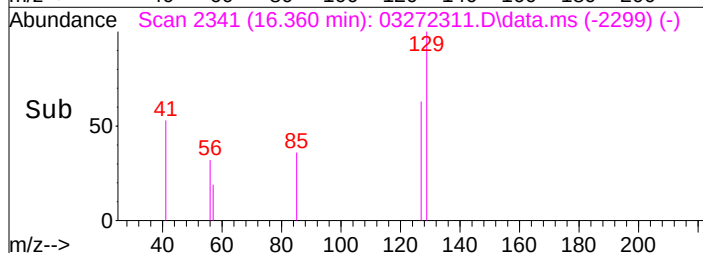
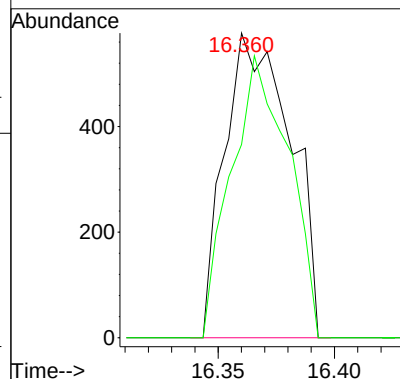
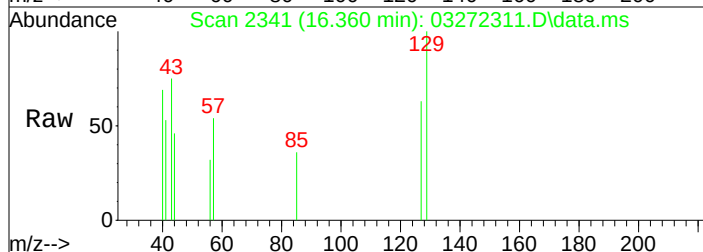
Tgt Ion: 43 Resp: 5398
Ion Ratio Lower Upper
43 100
58 40.7 32.3 72.3





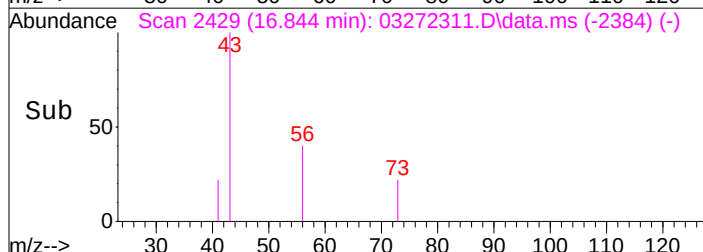
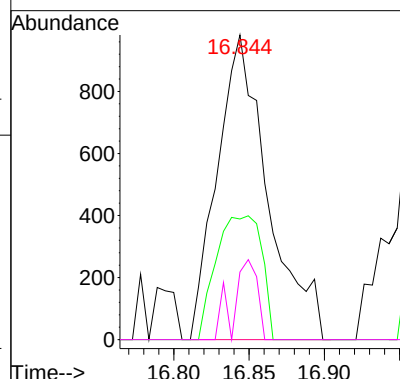
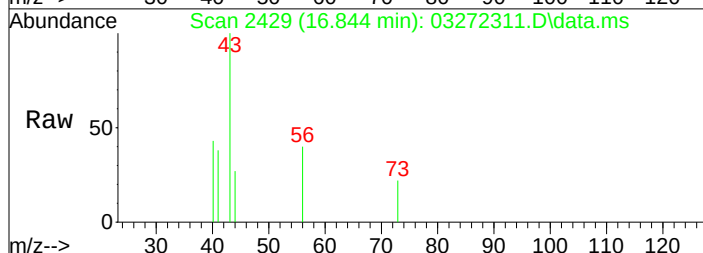
#60
 Dibromochloromethane
 Concen: 0.06 ng
 RT: 16.36 min Scan# 2341
 Delta R.T. -0.016 min
 Lab File: 03272311.D
 Acq: 27 Mar 2023 10:36

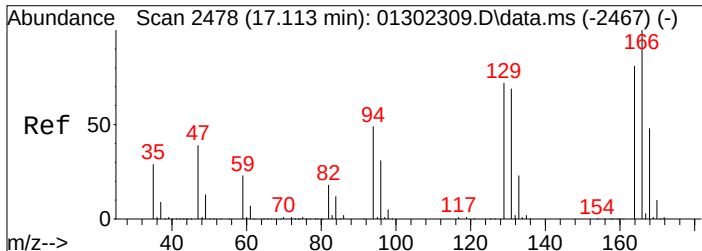
Tgt Ion: 129 Resp: 1137
 Ion Ratio Lower Upper
 129 100
 127 80.7 57.4 97.4



#62
 n-Butyl Acetate
 Concen: 0.05 ng
 RT: 16.84 min Scan# 2429
 Delta R.T. -0.000 min
 Lab File: 03272311.D
 Acq: 27 Mar 2023 10:36

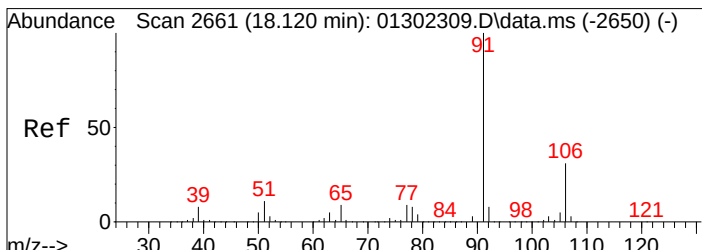
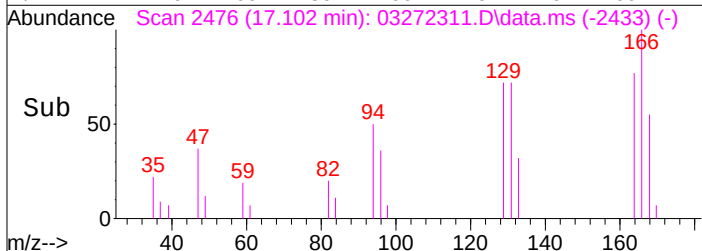
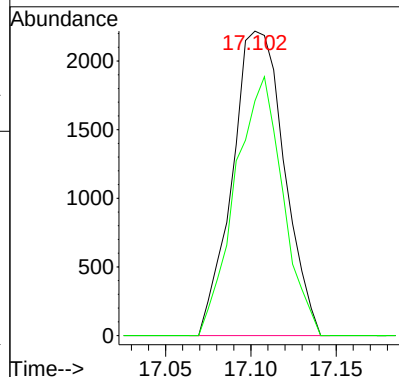
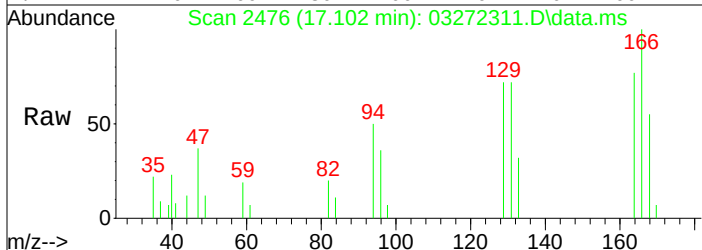
Tgt Ion: 43 Resp: 2302
 Ion Ratio Lower Upper
 43 100
 56 36.4 21.0 61.0
 73 12.4 0.0 34.3





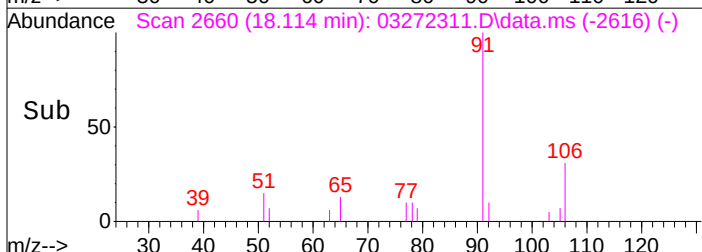
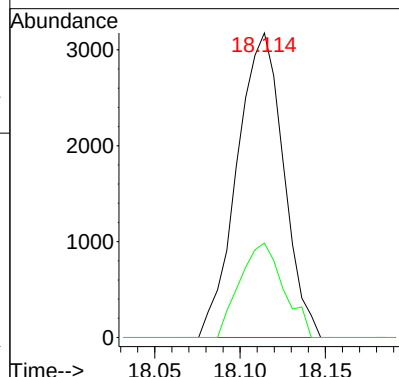
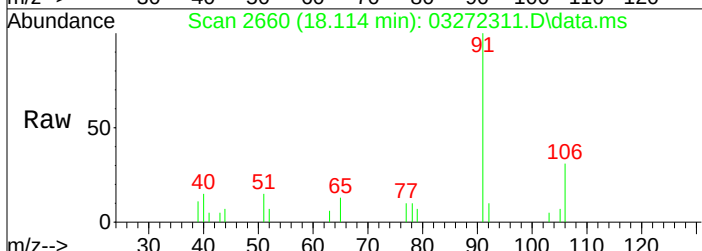
#64
Tetrachloroethene
Concen: 0.24 ng
RT: 17.10 min Scan# 2476
Delta R.T. -0.011 min
Lab File: 03272311.D
Acq: 27 Mar 2023 10:36

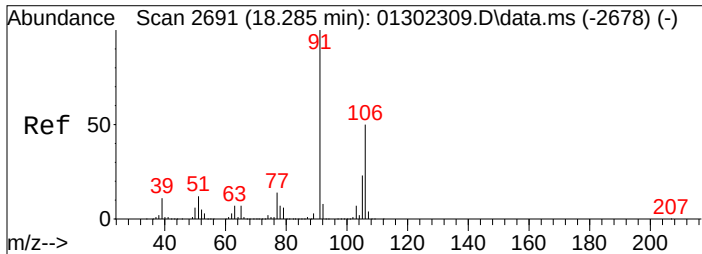
Tgt Ion: 166 Resp: 4707
Ion Ratio Lower Upper
166 100
164 77.9 58.7 98.7



#66
Ethylbenzene
Concen: 0.07 ng
RT: 18.11 min Scan# 2660
Delta R.T. -0.005 min
Lab File: 03272311.D
Acq: 27 Mar 2023 10:36

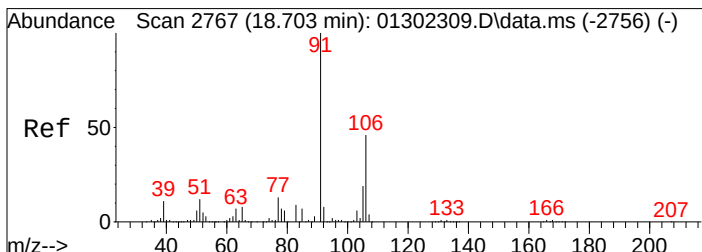
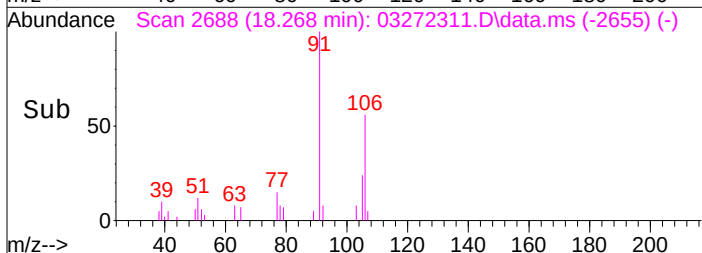
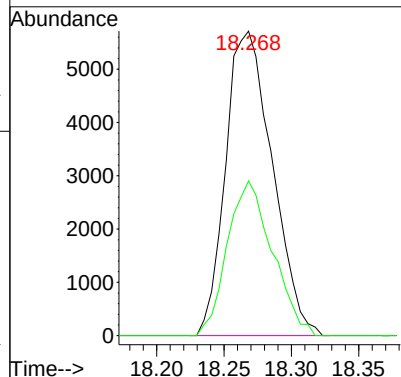
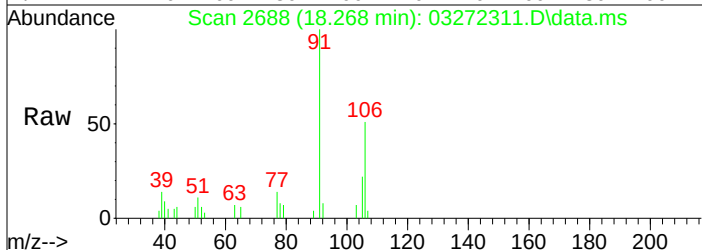
Tgt Ion: 91 Resp: 6019
Ion Ratio Lower Upper
91 100
106 29.3 11.5 51.5





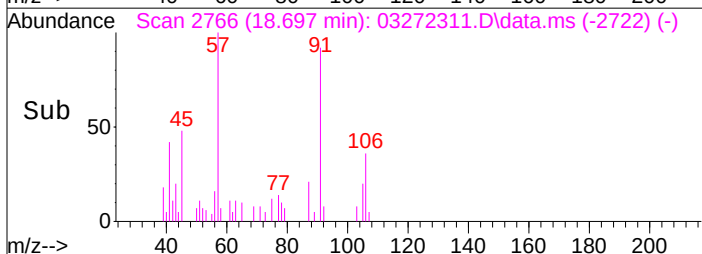
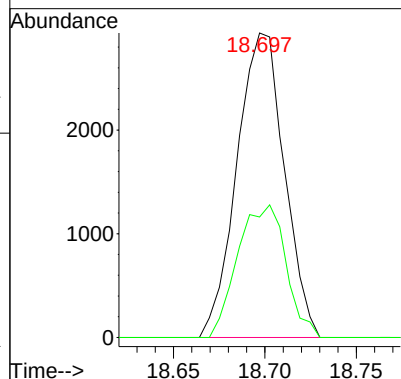
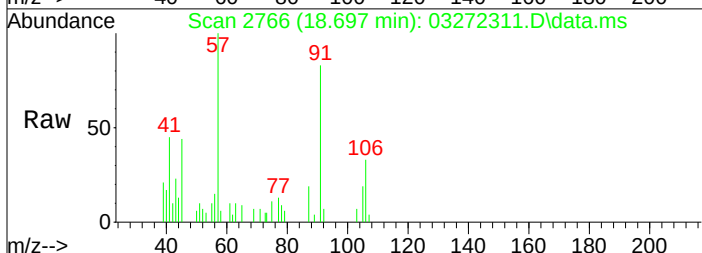
#67
 m- & p-Xylenes
 Concen: 0.20 ng
 RT: 18.27 min Scan# 2688
 Delta R.T. -0.016 min
 Lab File: 03272311.D
 Acq: 27 Mar 2023 10:36

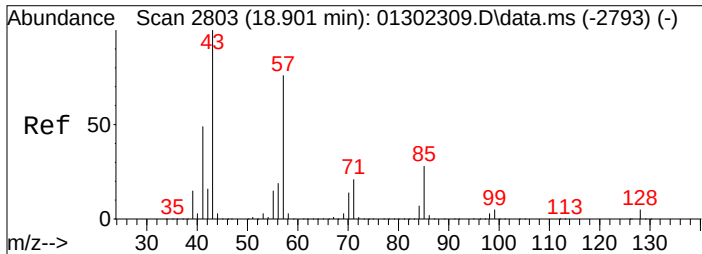
Tgt Ion	91	106	Resp	13769	Lower	Upper
Ion Ratio	100	49.0			29.2	69.2



#70
 o-Xylene
 Concen: 0.08 ng
 RT: 18.70 min Scan# 2766
 Delta R.T. -0.005 min
 Lab File: 03272311.D
 Acq: 27 Mar 2023 10:36

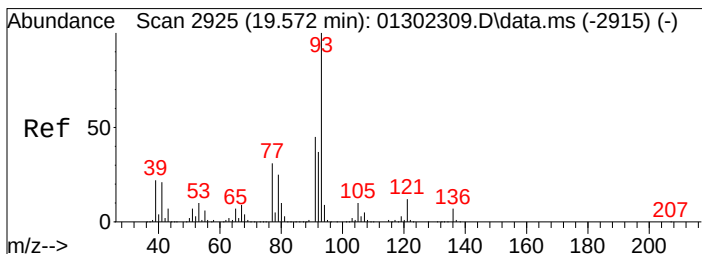
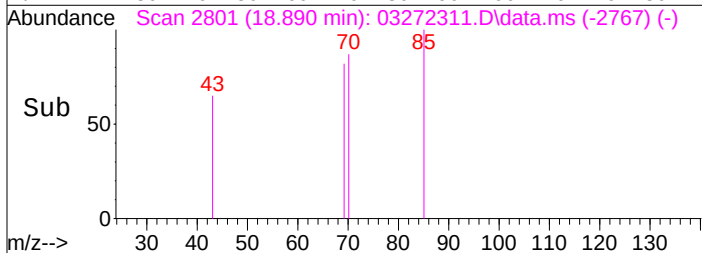
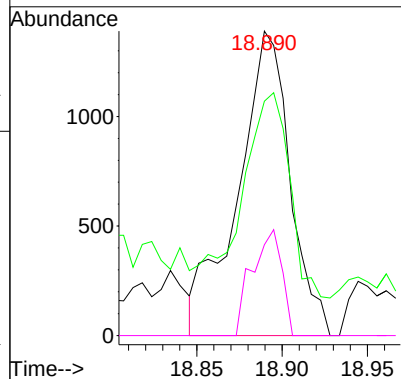
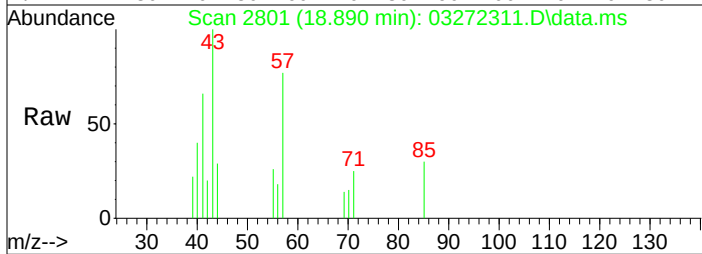
Tgt Ion	91	106	Resp	5302	Lower	Upper
Ion Ratio	100	44.2			27.3	67.3





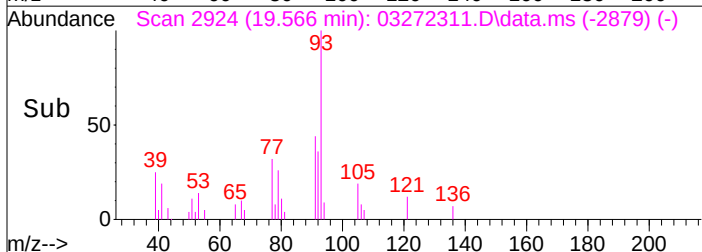
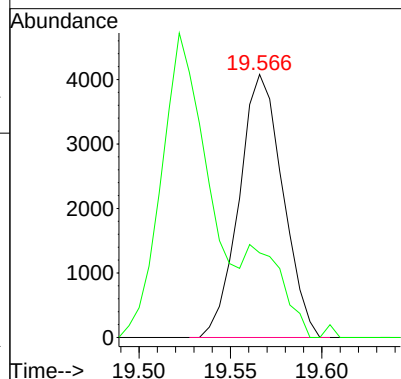
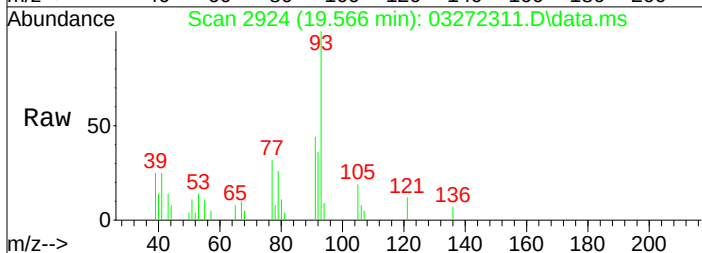
#71
n-Nonane
Concen: 0.06 ng
RT: 18.89 min Scan# 2801
Delta R.T. -0.011 min
Lab File: 03272311.D
Acq: 27 Mar 2023 10:36

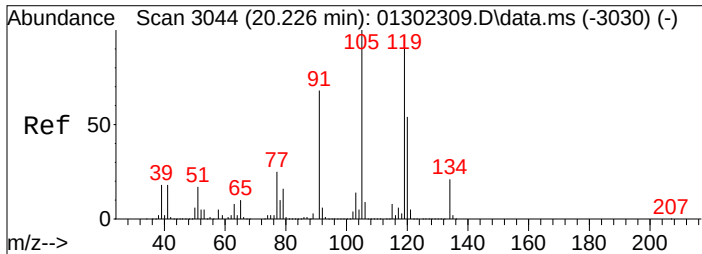
Tgt Ion:	43	Resp:	2961
Ion Ratio		Lower	Upper
43	100		
57	61.7	64.6	104.6#
85	19.8	9.6	49.6



#75
alpha-Pinene
Concen: 0.31 ng
RT: 19.57 min Scan# 2924
Delta R.T. -0.005 min
Lab File: 03272311.D
Acq: 27 Mar 2023 10:36

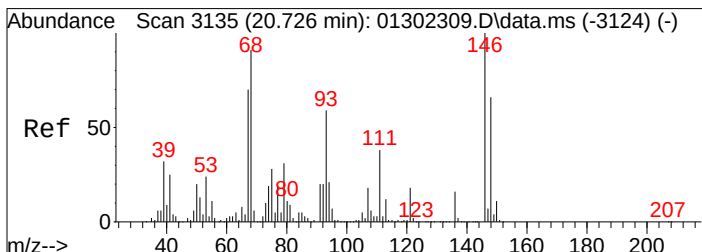
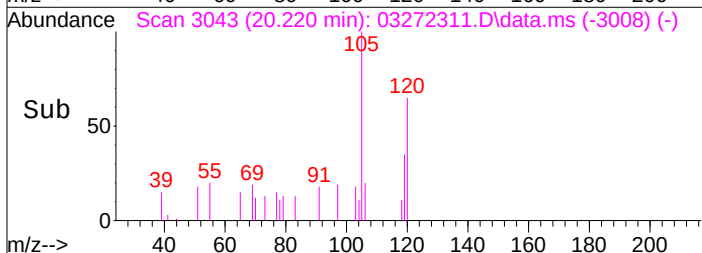
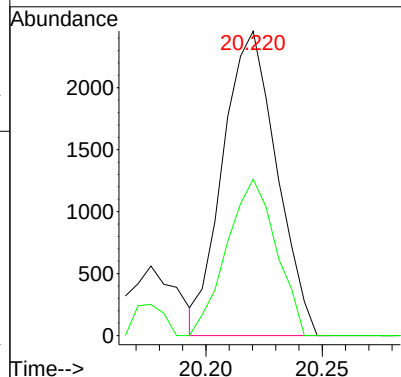
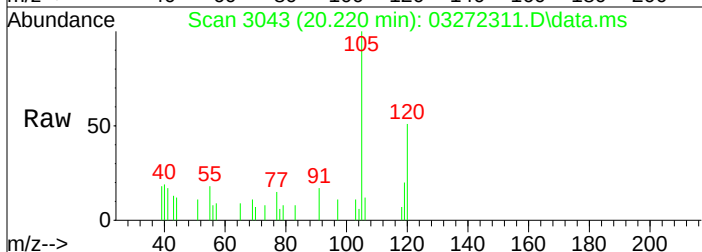
Tgt Ion:	93	Resp:	6777
Ion Ratio		Lower	Upper
93	100		
77	125.5	11.7	51.7#





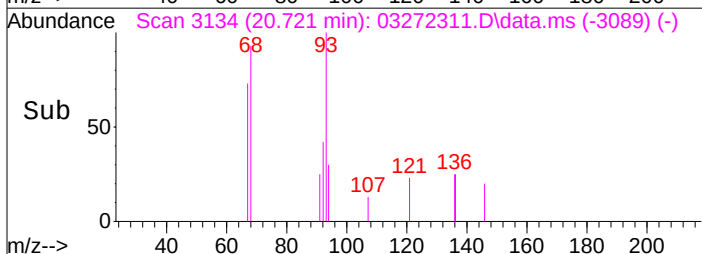
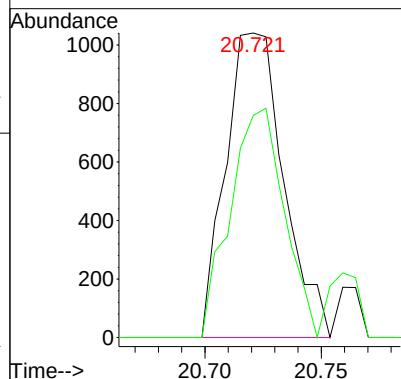
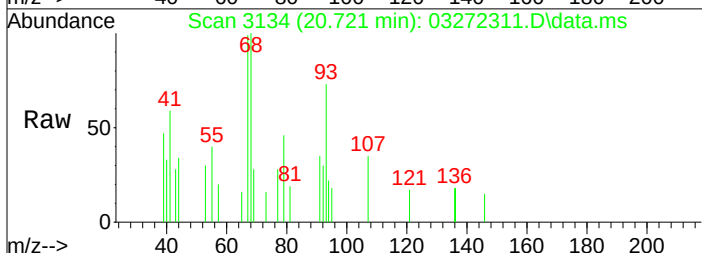
#82
 1,2,4-Trimethylbenzene
 Concen: 0.06 ng
 RT: 20.22 min Scan# 3043
 Delta R.T. -0.005 min
 Lab File: 03272311.D
 Acq: 27 Mar 2023 10:36

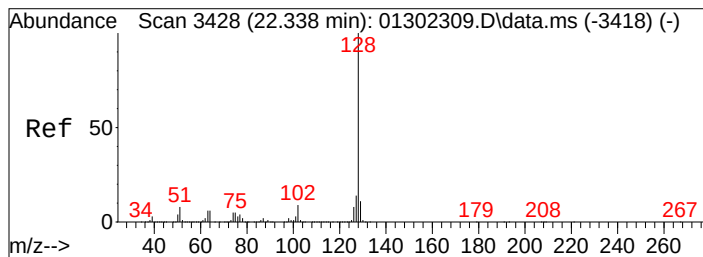
Tgt Ion: 105 Resp: 3941
 Ion Ratio Lower Upper
 105 100
 120 47.3 37.2 77.2



#91
 d-Limonene
 Concen: 0.09 ng
 RT: 20.72 min Scan# 3134
 Delta R.T. -0.005 min
 Lab File: 03272311.D
 Acq: 27 Mar 2023 10:36

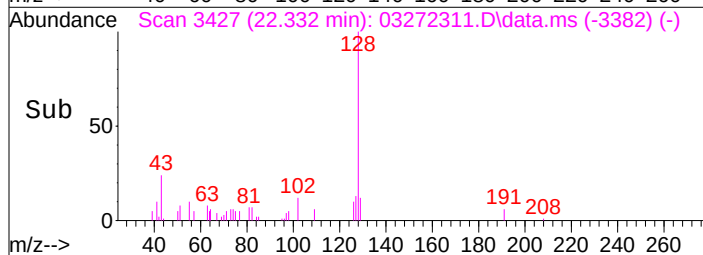
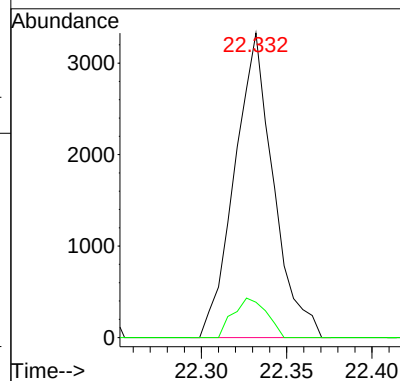
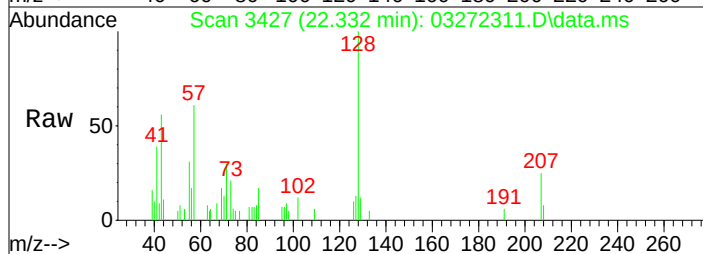
Tgt Ion: 68 Resp: 1805
 Ion Ratio Lower Upper
 68 100
 93 70.1 49.6 89.6





#95
Naphthalene
Concen: 0.06 ng
RT: 22.33 min Scan# 3427
Delta R.T. -0.005 min
Lab File: 03272311.D
Acq: 27 Mar 2023 10:36

Tgt Ion:128 Resp: 5268
Ion Ratio Lower Upper
128 100
129 11.2 0.0 31.0



Data File : I:\MS16\DATA\2023_03\27\03272311.D
 Acq On : 27 Mar 2023 10:36
 Sample : P2301250-059 (1000mL)
 Misc : S35-01312301

Vial: 7
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 12:12:16 2023
 Quant Method : I:\MS16\METHODS\C16122022.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Dec 21 05:02:49 2022
 Response via : Initial Calibration
 DataAcq Meth:T015B.M

 3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.28	130	198989	12.500	ng	-0.02
16) 1,4-Difluorobenzene (C_2)	13.41	114	919791	12.500	ng	-0.02
19) Chlorobenzene-d5 (C_3)	17.72	54	199035	12.500	ng	0.00

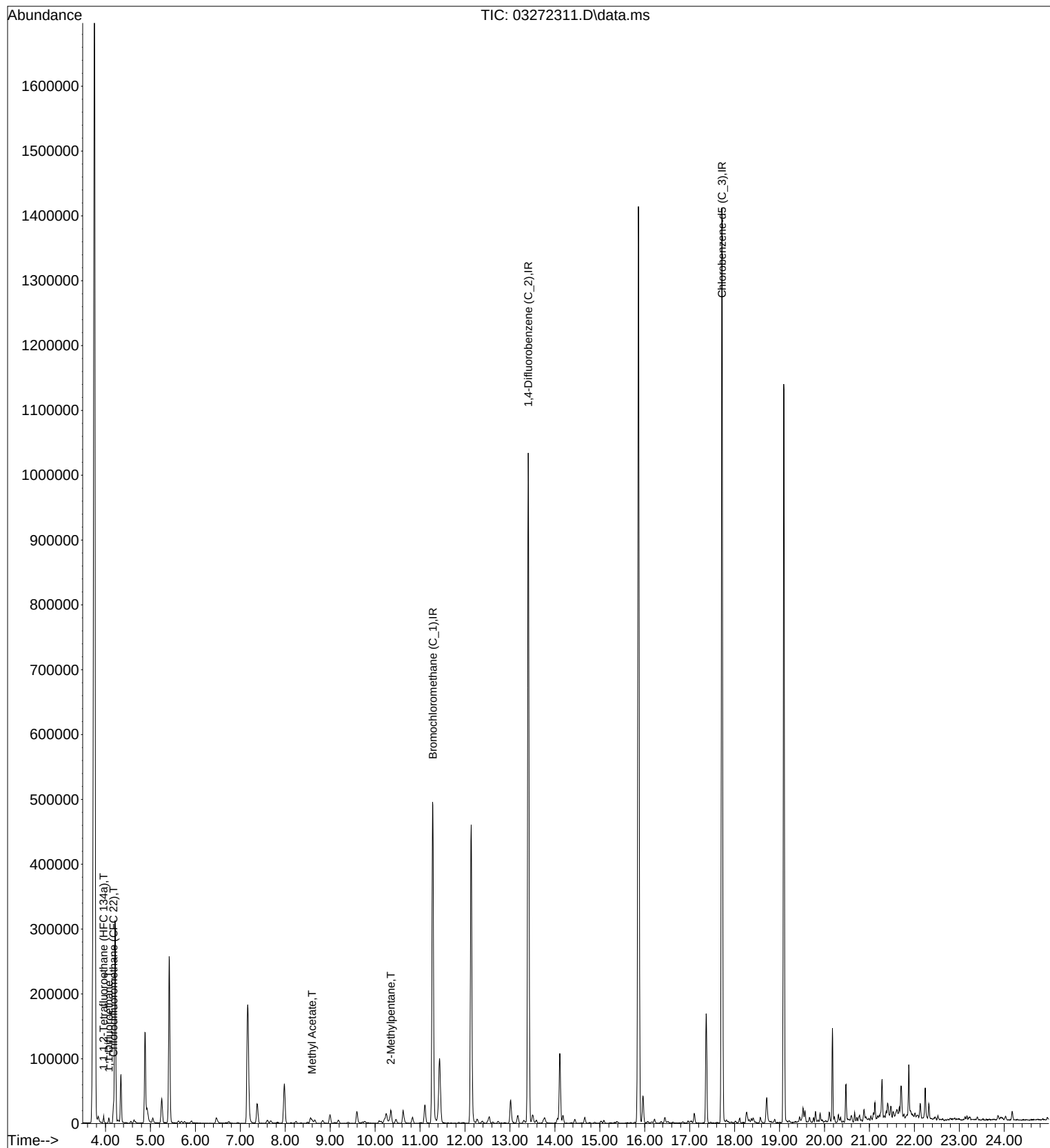
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.87	85	663	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.96	83	4936	0.313	ng	86
4) 1,1-Difluoroethane	4.08	65	2991	0.198	ng	98
5) Chlorodifluoromethane ...	4.18	67	2124	0.432	ng	96
6) 1-Chloro-1,1-Difluoroe...	4.64	65	2659	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	8.60	43	8006	0.162	ng	# 94
12) 2-Methylpentane	10.35	71	4554	0.233	ng	# 31
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	13.18	84	1672	N.D.		
17) 2,3-Dimethylpentane	13.59	56	1976	N.D.		
18) Dibromomethane	13.82	174	145	N.D.		
20) Methyl Cyclohexane	15.09	55	1595	N.D.		
21) 1,3-Dichloropropane	0.00	76	0	N.D.	d	
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	0.00	91	0	N.D.		
24) 1,2,3-Trichloropropane	18.72	75	2138	N.D.		
25) Bromobenzene	19.22	77	102	N.D.		
26) 2-Chlorotoluene	19.67	91	1463	N.D.		
27) 4-Chlorotoluene	19.67	91	1463	N.D.		
28) Indane	20.77	117	459	N.D.		
29) Indene	20.76	115	165	N.D.		
30) 1,2,4,5-Tetramethylben...	21.61	119	755	N.D.		
31) 1,2,3,4-Tetramethylben...	21.61	119	755	N.D.		
32) 1,2,3,5-Tetramethylben...	21.99	119	1096	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\27\03272311.D
Acq On : 27 Mar 2023 10:36
Sample : P2301250-059 (1000mL)
Misc : S35-01312301

Vial: 7
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 12:12:16 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



Method Path : I:\MS13\METHODS\
Method File : R13022223.M
Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
Last Update : Thu Feb 23 07:57:30 2023
Response Via : Initial Calibration

T 2/23/23

Calibration Files

0:1 =02222311.D 0.2 =02222312.D 0.5 =02222313.D 1.0 =02222314.D 5.0 =02222315.D 25 =02222316.D 50 =02222317.D
100 =02222318.D

Compound		0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD

1) IR	Bromochloromethane...	-----ISTD-----									
2) T	Propene		1.453	1.409	1.264	1.178	1.159	1.089	1.200	1.250	10.75
3) T	Dichlorodifluo...	2.292	2.324	2.425	2.407	2.273	2.281	2.178	2.137	2.290	4.35
4) T	Chloromethane		1.822	1.796	1.828	1.797	1.606	1.672	1.522	1.651	13.70
5) T	1,2-Dichloro-1...		1.120	1.070	1.230	1.234	1.180	1.191	1.118	1.104	5.30
6) T	Vinyl Chloride		1.708	1.455	1.596	1.582	1.514	1.527	1.464	1.386	6.53
7) T	1,3-Butadiene		1.201	1.216	1.275	1.190	1.117	1.136	1.090	1.042	6.52
8) T	Bromomethane		0.979	1.031	1.066	1.083	1.026	1.036	0.993	0.982	3.73
9) T	Chloroethane		0.740	0.679	0.752	0.781	0.728	0.722	0.696	0.688	4.77
10) T	Ethanol			1.109	0.951	0.939	0.831	0.843	0.786	0.755	13.68
11) T	Acetonitrile			2.808	2.438	2.380	2.159	2.168	2.101	2.092	11.23
12) T	Acrolein			0.773	0.725	0.791	0.732	0.721	0.737	0.691	4.56
13) T	Acetone			0.927	0.857	0.799	0.773	0.732	0.708	0.654	13.73
14) T	Trichlorofluor...			2.030	2.102	2.162	2.120	2.037	2.057	1.995	3.01
15) T	2-Propanol (Is...				3.932	3.415	3.160	2.884	2.908	2.748	16.52
16) T	Acrylonitrile				1.609	1.462	1.496	1.464	1.418	1.421	5.93
17) T	1,1-Dichloroet...				0.982	1.098	1.110	1.112	1.044	1.061	4.33
18) T	2-Methyl-2-Pro...				2.989	2.981	3.127	3.057	2.923	2.996	2.83
19) T	Methylene Chlo...				1.161	1.177	1.210	1.147	1.083	1.041	6.84
20) T	3-Chloro-1-pro...				1.873	1.816	1.847	1.884	1.715	1.722	5.16
21) T	Trichlorotrifl...				1.156	1.047	1.139	1.084	1.061	1.076	3.81
22) T	Carbon Disulfide				5.510	4.990	4.656	4.356	4.031	4.029	13.95
23) T	trans-1,2-Dich...				1.499	1.646	1.684	1.625	1.618	1.646	3.32
24) T	1,1-Dichloroet...				2.063	2.025	2.083	2.046	1.931	1.935	4.47
25) T	Methyl tert-Bu...				3.636	3.465	3.612	3.518	3.368	3.441	3.38
26) T	Vinyl Acetate				0.195	0.207	0.203	0.210	0.206	0.211	2.55
27) T	2-Butanone (MEK)				0.666	0.666	0.688	0.680	0.680	0.688	2.00
28) T	cis-1,2-Dichlo...				1.680	1.574	1.723	1.576	1.542	1.579	4.21
29) T	Diisopropyl Ether				0.969	0.916	0.894	0.873	0.828	0.795	11.70
30) T	Ethyl Acetate				0.464	0.456	0.502	0.483	0.458	0.428	10.85
31) T	n-Hexane				1.937	1.916	1.866	1.873	1.707	1.573	13.97
32) T	Chloroform				2.063	2.040	2.083	2.071	1.945	1.993	2.81
33) S	1,2-Dichloroet...				1.637	1.657	1.635	1.634	1.660	1.658	1.84
34) T	Tetrahydrofura...				0.839	0.710	0.710	0.676	0.654	0.662	9.62
35) T	Ethyl tert-But...				1.278	1.302	1.338	1.295	1.271	1.278	3.08
36) T	1,2-Dichloroet...				1.458	1.544	1.522	1.534	1.531	1.558	1.95

37) IR	1,4-Difluorobenzen...	-----ISTD-----									
38) T	1,1,1-Trichlor...	0.433	0.417	0.443	0.426	0.408	0.413	0.396	0.374	0.414	5.22

[illegible]

92)	T	1,2-Dibromo-3-	...	1.515	1.193	1.189	1.222	1.292	1.371	1.336	1.248	1.296	8.51
93)	T	n-Undecane										0.000	-1.00
94)	T	1,2,4-Trichlor	...		2.937	2.354	2.464	2.490	2.728	2.652	2.391	2.574	8.14
95)	T	Naphthalene			6.916	5.040	5.584	5.753	6.776	6.843	6.460	6.196	11.87
96)	T	n-Dodecane										0.000	-1.00
97)	T	Hexachlorobuta	...	2.620	2.172	1.921	1.999	1.890	1.859	1.813	1.689	1.995	14.46
98)	T	Cyclohexanone										0.000	-1.00
99)	T	tert-Butylbenzene		6.091	5.462	5.715	5.674	5.387	5.246	4.900	4.456	5.366	9.48
100)	T	n-Butylbenzene		6.648	5.796	5.918	5.844	5.731	5.943	5.710	5.305	5.862	6.39
101)	T	1,1,1,2-Tetrac	...	1.556	1.465	1.617	1.563	1.500	1.544	1.495	1.431	1.522	3.93

(#) = Out of Range

Primary Source Standards Concentrations (Working & Initial Calibration)

1ng/L Std. ID: S35-02222302
4ng/L Std. ID: S35-02222302
20ng/L Std. ID: S35-02222301

40ng/L Std. ID: S35-02162304
200ng/L Std. ID: S35-02162304
1000ng/L Std. ID: S35-02162304

Dilution Factors:													Working STD Conc.(ng/L):																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
		1		5		25		50		250		1000		Injection (L): ICAL Points:	4	4	20	20	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200

Primary Source Standards Concentrations (Working & Initial Calibration)

1ng/L Std. ID: S35-02222302			40ng/L Std. ID: S35-02162304			200ng/L Std. ID: S35-02162304			1000ng/L Std. ID: S35-02222301											
Dilution Factors:			1			5			25			50			250			1000		
Compounds	Source Std. mg/m ³	1000ng/L	Primary Working Standards			200ng/L	40ng/L	20ng/L	4ng/L	20ng/L	4ng/L	20ng/L	4ng/L	20ng/L	4ng/L	20ng/L	4ng/L			
cis-1,3-Dichloropropene	1.08	1080	216	432	216	4.32	1.08													
4-Methyl-2-pentanone	2.15	2150	430	860	430	8.60	2.15													
trans-1,3-Dichloropropene	1.02	1020	204	408	204	4.08	1.02													
1,1,2-Trichloroethane	1.06	1060	212	424	212	4.24	1.06													
Toluene	1.05	1050	210	420	210	4.20	1.05													
2-Hexanone	2.12	2120	424	848	424	8.48	2.12													
Dibromochloromethane	1.08	1080	216	432	216	4.32	1.08													
1,2-Dibromoethane	1.04	1040	208	416	208	4.16	1.04													
n-Butyl Acetate	2.05	2050	410	820	410	8.20	2.05													
n-Octane	1.07	1070	214	428	214	4.28	1.07													
Tetrachloroethene	1.06	1060	212	424	212	4.24	1.06													
Chlorobenzene	1.06	1060	212	424	212	4.24	1.06													
Ethylbenzene	1.05	1050	210	420	210	4.20	1.05													
m- & p-Xylene	2.10	2100	420	840	420	8.40	2.10													
Bromoforn	1.07	1070	214	428	214	4.28	1.07													
Styrene	1.06	1060	212	424	212	4.24	1.06													
o-Xylene	1.06	1060	212	424	212	4.24	1.06													
n-Nonane	1.06	1060	212	424	212	4.24	1.06													
1,1,1,2,2-Tetrachloroethane	1.06	1060	212	424	212	4.24	1.06													
p-Xylene	1.07	1070	214	428	214	4.28	1.07													
alpha-Pinene	1.09	1090	218	436	218	4.36	1.09													
n-Propylbenzene	1.07	1070	214	428	214	4.28	1.07													
4-Ethyltoluene	1.09	1090	218	436	218	4.36	1.09													
1,3,5-Trimethylbenzene	1.06	1060	212	424	212	4.24	1.06													
1,2,4-Trimethylbenzene	1.05	1050	210	420	210	4.20	1.05													
Benzyl Chloride	2.12	2120	424	848	424	8.48	2.12													
1,3-Dichlorobenzene	1.06	1060	212	424	212	4.24	1.06													
1,4-Dichlorobenzene	1.06	1060	212	424	212	4.24	1.06													
sec-Butylbenzene	1.06	1060	212	424	212	4.24	1.06													
p-Isopropyltoluene	1.06	1060	212	424	212	4.24	1.06													
1,2-Dichlorobenzene	1.07	1070	214	428	214	4.28	1.07													
d-Limonene	1.07	1070	214	428	214	4.28	1.07													
1,2-Dibromo-3-chloropropane	2.10	2100	420	840	420	8.40	2.10													
1,2,4-Trichlorobenzene	2.09	2090	418	836	418	8.36	2.09													
Naphthalene	1.10	1100	220	440	220	4.40	1.10													
Hexachloro-1,3-butadiene	1.06	1060	212	424	212	4.24	1.06													
tert-Butylbenzene	1.06	1060	212	424	212	4.24	1.06													
n-Butylbenzene	1.07	1070	214	428	214	4.28	1.07													
1,1,1,2-Tetrachloroethane	1.06	1060	212	424	212	4.24	1.06													

Working STD Conc.(ng/L):	4	4	20	20	20	20	200	200	200
	0.025	0.050	0.0250	0.050	0.25	0.50	0.125	0.25	200
	0.10ng	0.20ng	0.50ng	1.0ng	5.0ng	25ng	50ng	100ng	100ng
Injection (L):									
ICAL Points:									

Method : I:\MS13\METHODS\R13022223.M (RTE Integrator)
Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
Last Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration

Feb 23/23

#	ID	Conc	ISTD Conc	Path\File
1	0.1	0	13	I:\MS13\DATA\2023_02\22\022222311.D
2	0.2	0	13	I:\MS13\DATA\2023_02\22\022222312.D
3	0.5	1	13	I:\MS13\DATA\2023_02\22\022222313.D
4	1.0	1	13	I:\MS13\DATA\2023_02\22\022222314.D
5	5.0	5	13	I:\MS13\DATA\2023_02\22\022222315.D
6	25	26	13	I:\MS13\DATA\2023_02\22\022222316.D
7	50	53	13	I:\MS13\DATA\2023_02\22\022222317.D
8	100	105	13	I:\MS13\DATA\2023_02\22\022222318.D

#	ID	Update Time	Quant Time	Acquisition Time
1	0.1	Feb 23 07:48 2023	Feb 23 07:47 2023	22 Feb 2023 15:07
2	0.2	Feb 23 07:42 2023	Feb 23 07:42 2023	22 Feb 2023 15:44
3	0.5	Feb 23 07:42 2023	Feb 23 07:42 2023	22 Feb 2023 16:21
4	1.0	Feb 23 07:44 2023	Feb 23 07:42 2023	22 Feb 2023 16:58
5	5.0	Feb 23 07:44 2023	Feb 23 07:42 2023	22 Feb 2023 17:35
6	25	Feb 23 07:57 2023	Feb 23 07:42 2023	22 Feb 2023 18:11
7	50	Feb 23 07:44 2023	Feb 23 07:42 2023	22 Feb 2023 18:47
8	100	Feb 23 07:44 2023	Feb 23 07:42 2023	22 Feb 2023 19:23

R13022223.M Thu Feb 23 08:54:40 2023

Data File : I:\MS13\DATA\2023_02\22\02222311.D
 Acq On : 22 Feb 2023 15:07
 Sample : 0.1ng R13022223 ICAL Std.
 Misc : S35-01202301/S35-02222302 (3/18)

Vial: 13
 Operator: TZ
 Inst : MS13

Quant Time: Feb 23 07:47:07 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:41:41 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	202988	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.37	114	874682	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.88	54	155806	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	332306	12.352	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	98.80%
57) Toluene-d8 (SS2)	12.48	98	995902	13.570	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	108.56%
73) Bromofluorobenzene (SS3)	16.85	174	353663	15.200	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	121.60%

Target Compounds

						Qvalue
2) Propene	3.43	42	3131	0.128	ng	95
3) Dichlorodifluoromethan...	3.50	85	3945	0.107	ng	99
4) Chloromethane	3.64	50	3047m	0.082	ng	
5) 1,2-Dichloro-1,1,2,2-t...	3.74	135	1891	0.107	ng	92
6) Vinyl Chloride	3.83	62	2802	0.102	ng	90
7) 1,3-Butadiene	3.95	54	2067	0.090	ng	87
8) Bromomethane	4.15	94	1622	0.090	ng	92
9) Chloroethane	4.30	64	1238	0.082	ng	68
10) Ethanol	4.41	45	8331	0.410	ng	93
11) Acetonitrile	4.58	41	5643	0.105	ng	# 1
12) Acrolein	4.66	56	2422	0.160	ng	94
13) Acetone	4.77	58	7931	0.506	ng	93
14) Trichlorofluoromethane	4.89	101	3428	0.107	ng	100
15) 2-Propanol (Isopropanol)	4.97	45	16899	0.247	ng	83
16) Acrylonitrile	5.11	53	5358	0.177	ng	99
17) 1,1-Dichloroethene	5.37	96	1722	0.093	ng	91
18) 2-Methyl-2-Propanol (t...	5.47	59	10242	0.194	ng	88
19) Methylene Chloride	5.45	84	1998	0.097	ng	93
20) 3-Chloro-1-propene (Al...	5.56	41	3224	0.085	ng	87
21) Trichlorotrifluoroethane	5.69	151	2027	0.124	ng	97
22) Carbon Disulfide	5.73	76	19058	0.228	ng	98
23) trans-1,2-Dichloroethene	6.25	61	2629	0.085	ng	100
24) 1,1-Dichloroethane	6.42	63	3584	0.095	ng	91
25) Methyl tert-Butyl Ether	6.49	73	6317	0.107	ng	96
26) Vinyl Acetate	6.55	86	885	0.242	ng	# 41
27) 2-Butanone (MEK)	6.78	72	2260	0.168	ng	# 42
28) cis-1,2-Dichloroethene	7.16	61	2892	0.097	ng	99
29) Diisopropyl Ether	7.38	87	3336	0.230	ng	# 97
30) Ethyl Acetate	7.38	61	3181	0.354	ng	97
31) n-Hexane	7.39	57	3302	0.097	ng	# 91
32) Chloroform	7.43	83	3551	0.104	ng	95
34) Tetrahydrofuran (THF)	7.87	72	2780	0.207	ng	# 81
35) Ethyl tert-Butyl Ether	7.92	87	4400	0.202	ng	95
36) 1,2-Dichloroethane	8.19	62	2557	0.099	ng	90
38) 1,1,1-Trichloroethane	8.46	97	3180	0.117	ng	96
39) Isopropyl Acetate	9.37	61	23977	No Calib		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	8.97	78	8324	0.110	ng	100
42) Carbon Tetrachloride	9.14	117	2608	0.111	ng	100
43) Cyclohexane	9.29	84	5546	0.200	ng	93
44) tert-Amyl Methyl Ether	9.69	73	10789	0.201	ng	96
45) 1,2-Dichloropropane	9.92	63	1933	0.090	ng	98
46) Bromodichloromethane	10.14	83	2865	0.112	ng	93
47) Trichloroethene	10.21	130	2172	0.112	ng	96
48) 1,4-Dioxane	10.23	88	1560	0.102	ng	81
49) 2,2,4-Trimethylpentane...	10.30	57	8076	0.093	ng	99
50) Methyl Methacrylate	10.48	100	1509	0.220	ng	91

Data File : I:\MS13\DATA\2023_02\22\02222311.D
 Acq On : 22 Feb 2023 15:07
 Sample : 0.1ng R13022223 ICAL Std.
 Misc : S35-01202301/S35-02222302 (3/18)

Vial: 13
 Operator: TZ
 Inst : MS13

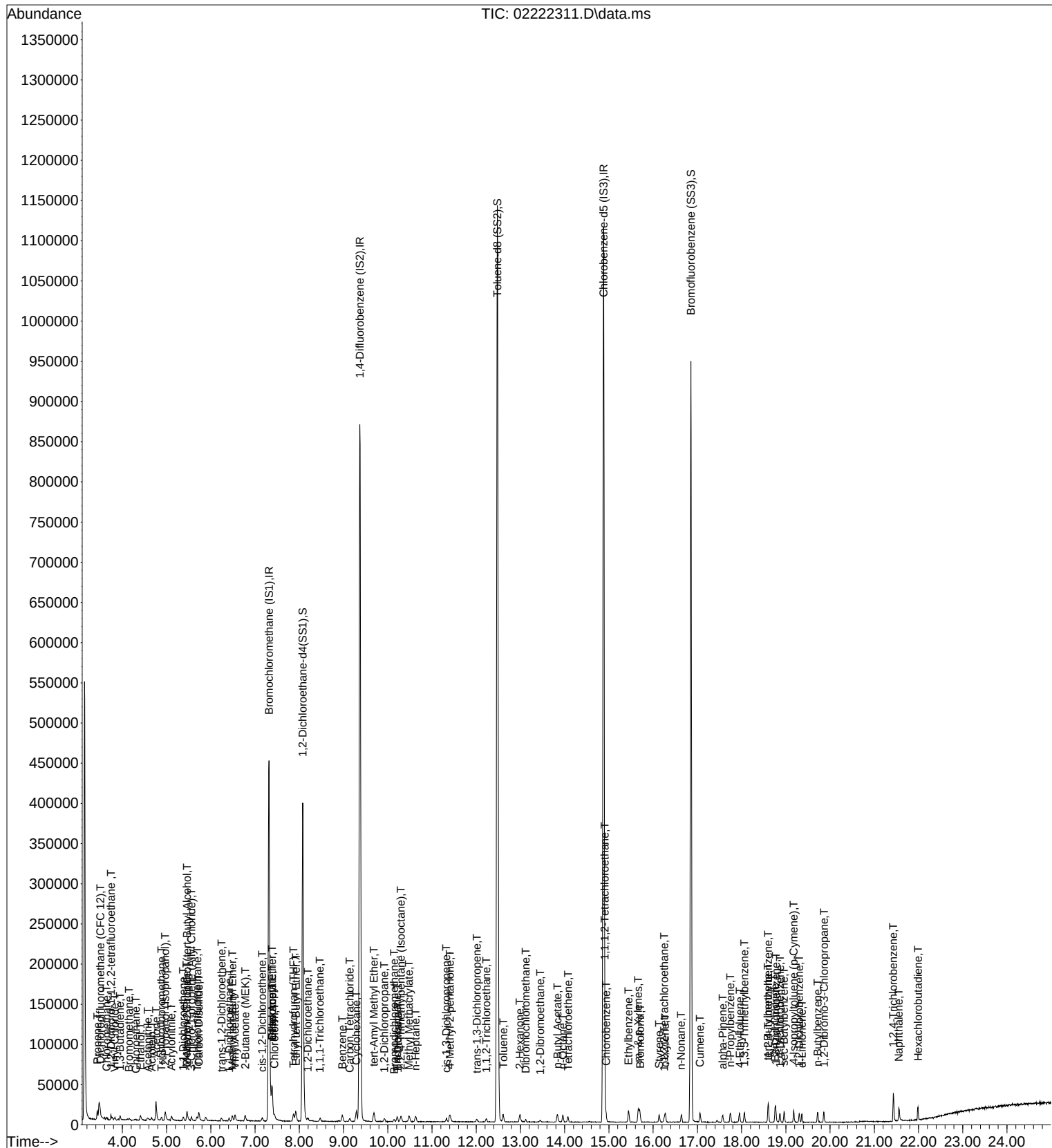
Quant Time: Feb 23 07:47:07 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:41:41 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.63	71	1961	0.101	ng	93
52) cis-1,3-Dichloropropene	11.32	75	2993	0.099	ng	75
53) 4-Methyl-2-pentanone	11.41	58	3433	0.188	ng	86
54) trans-1,3-Dichloropropene	12.02	75	2634	0.094	ng	95
55) 1,1,2-Trichloroethane	12.23	97	1849	0.101	ng	90
58) Toluene	12.61	91	9807	0.141	ng	94
59) 2-Hexanone	12.98	43	9294	0.220	ng	98
60) Dibromochloromethane	13.12	129	2317	0.123	ng	98
61) 1,2-Dibromoethane	13.44	107	2189	0.115	ng	96
62) n-Butyl Acetate	13.84	43	10444	0.214	ng	94
63) n-Octane	13.96	57	1751	0.108	ng	93
64) Tetrachloroethene	14.08	166	2427	0.130	ng	79
65) Chlorobenzene	14.94	112	5992	0.134	ng	94
66) Ethylbenzene	15.44	91	12972	0.165	ng	96
67) m- & p-Xylenes	15.66	91	20803	0.345	ng	99
68) Bromoform	15.71	173	2146	0.137	ng	91
69) Styrene	16.14	104	5671	0.132	ng	99
70) o-Xylene	16.27	91	8601	0.141	ng	99
71) n-Nonane	16.63	43	3806	0.094	ng	99
72) 1,1,2,2-Tetrachloroethane	16.25	83	3302	0.108	ng	95
74) Cumene	17.06	105	10249	0.139	ng	94
75) alpha-Pinene	17.58	93	4159	0.119	ng	79
76) n-Propylbenzene	17.74	91	12305	0.136	ng	99
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.96	105	9469	0.138	ng	97
79) 1,3,5-Trimethylbenzene	18.07	105	8683	0.149	ng	94
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.60	105	8303	0.143	ng	96
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	18.75	91	13391	0.280	ng	93
85) 1,3-Dichlorobenzene	18.78	146	5725	0.174	ng	97
86) 1,4-Dichlorobenzene	18.87	146	6455	0.192	ng	93
87) sec-Butylbenzene	18.96	105	10585	0.132	ng	96
88) 4-Isopropyltoluene (p-...	19.18	119	9816	0.149	ng	96
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.30	146	5383	0.164	ng	99
91) d-Limonene	19.36	68	2573	0.113	ng	93
92) 1,2-Dibromo-3-Chloropr...	19.86	157	3966	0.339	ng	83
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	21.43	180	13981	0.671	ng	98
95) Naphthalene	21.55	128	20694	0.361	ng	95
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	21.99	225	3461	0.227	ng	94
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	18.59	119	8047	0.148	ng	98
100) n-Butylbenzene	19.72	91	8867	0.143	ng	# 92
101) 1,1,1,2-Tetrachloroethane	14.91	131	2056	0.132	ng	97

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

Vial: 13
Operator: TZ
Inst : MS13

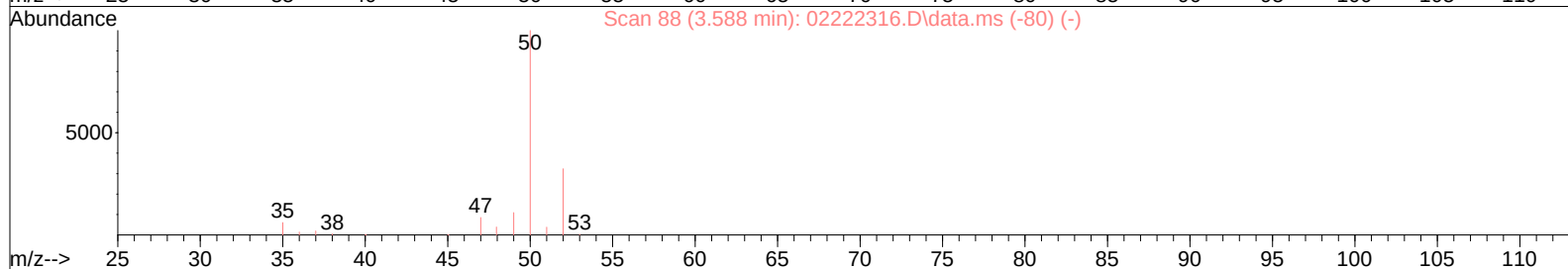
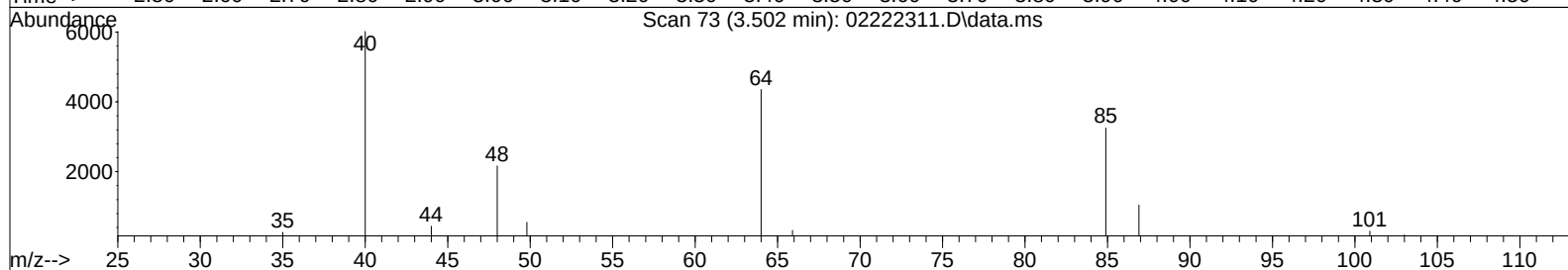
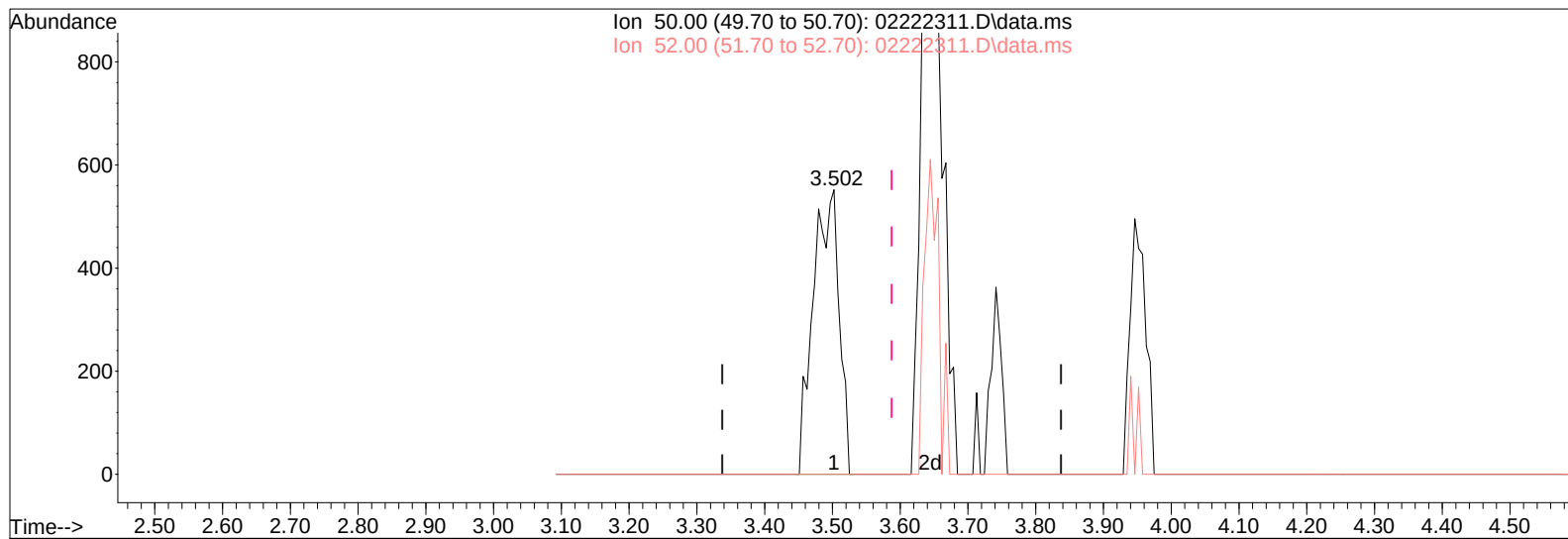
Quant Time: Feb 23 07:47:07 2023



Data File : I:\MS13\DATA\2023_02\22\02222311.D
Acq On : 22 Feb 2023 15:07
Sample : 0.1ng R13022223 ICAL Std.
Misc : S35-01202301/S35-02222302 (3/18)

Vial: 13
Operator: TZ
Inst : MS13

Quant Time: Feb 23 07:42:06 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:41:41 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 02222311.D\data.ms

(4) Chloromethane (T)

3.502min (-0.085) 0.04ng

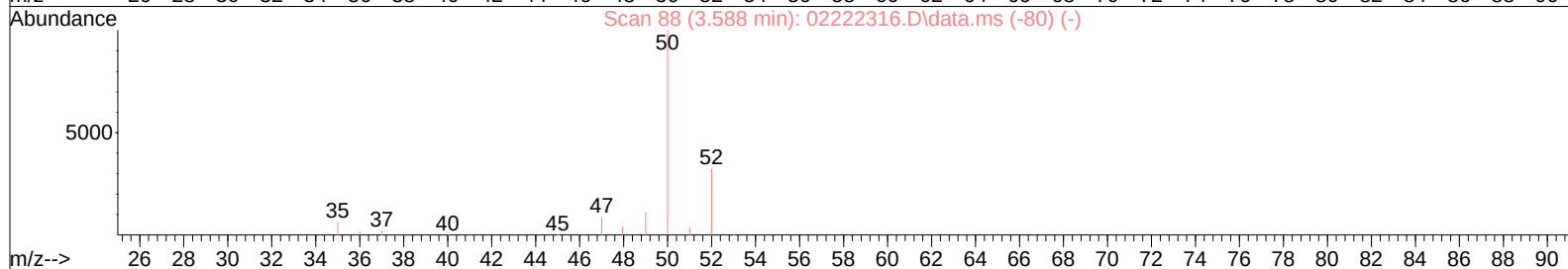
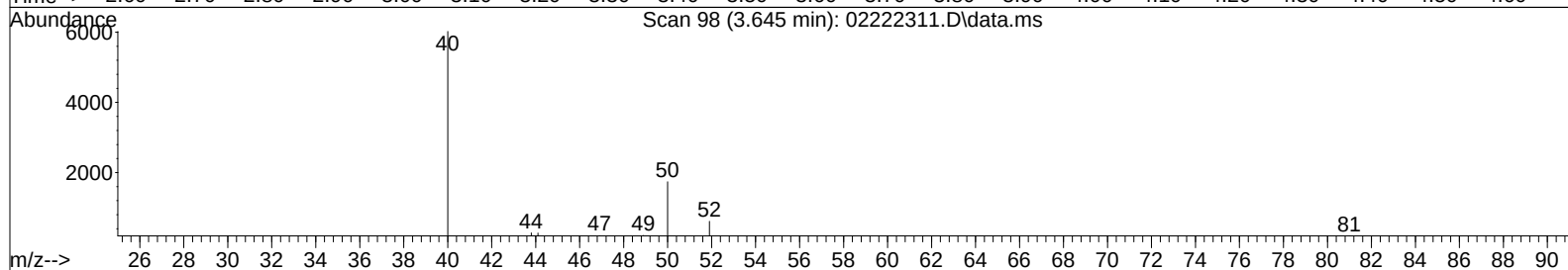
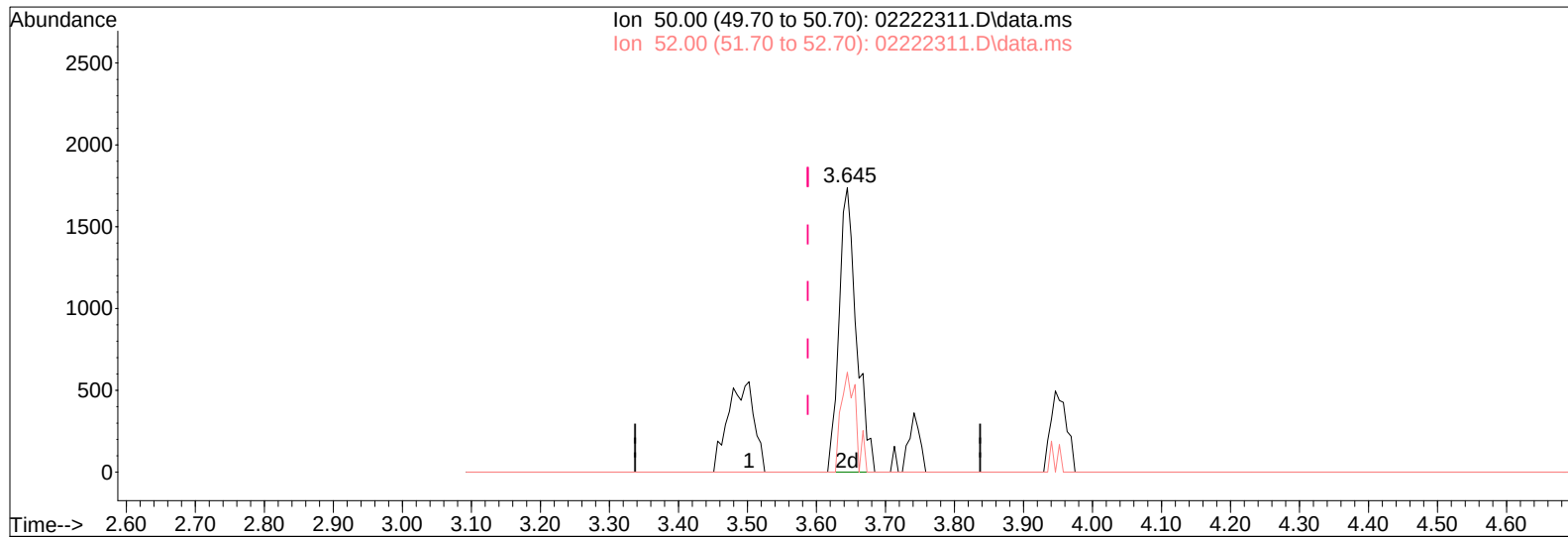
response 1461

Ion	Exp%	Act%
50.00	100	100
52.00	33.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data File : I:\MS13\DATA\2023_02\22\02222311.D
Acq On : 22 Feb 2023 15:07
Sample : 0.1ng R13022223 ICAL Std.
Misc : S35-01202301/S35-02222302 (3/18)

Vial: 13
Operator: TZ
Inst : MS13

Quant Time: Feb 23 07:42:06 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:41:41 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



TIC: 02222311.D\data.ms

(4) Chloromethane (T)

3.645min (+0.057) 0.08ng m

response 3047

Ion	Exp%	Act%
50.00	100	100
52.00	33.00	27.34
0.00	0.00	0.00
0.00	0.00	0.00

MP

TZ 2/23/23

CG 3/2/23

Data File : I:\MS13\DATA\2023_02\22\02222312.D
 Acq On : 22 Feb 2023 15:44
 Sample : 0.2ng R13022223 ICAL Std.
 Misc : S35-01202301/S35-02222302 (3/18)

Vial: 13
 Operator: TZ
 Inst : MS13

TZ 2/23/23

Quant Time: Feb 23 07:42:07 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:41:41 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	196637	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.37	114	859289	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.88	54	153573	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	325889	12.505	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery	=	100.08%	
57) Toluene-d8 (SS2)	12.48	98	972771	13.447	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	107.60%	
73) Bromofluorobenzene (SS3)	16.85	174	346185	15.095	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	120.72%	

Target Compounds

						Qvalue
2) Propene	3.43	42	4799	0.202	ng	93
3) Dichlorodifluoromethan...	3.50	85	7750	0.217	ng	98
4) Chloromethane	3.64	50	5821	0.162	ng	93
5) 1,2-Dichloro-1,1,2,2-t...	3.74	135	3501	0.205	ng	97
6) Vinyl Chloride	3.82	62	4623	0.173	ng	97
7) 1,3-Butadiene	3.94	54	4054	0.183	ng	# 80
8) Bromomethane	4.15	94	3308	0.189	ng	96
9) Chloroethane	4.29	64	2201	0.151	ng	97
10) Ethanol	4.40	45	12033	0.611	ng	95
11) Acetonitrile	4.56	41	8038	0.154	ng	# 1
12) Acrolein	4.66	56	4404	0.300	ng	98
13) Acetone	4.75	58	14202	0.936	ng	99
14) Trichlorofluoromethane	4.88	101	6878	0.221	ng	100
15) 2-Propanol (Isopropanol)	4.95	45	25361	0.383	ng	93
16) Acrylonitrile	5.10	53	9430	0.321	ng	95
17) 1,1-Dichloroethene	5.38	96	3730	0.208	ng	99
18) 2-Methyl-2-Propanol (t...	5.46	59	19788	0.386	ng	93
19) Methylene Chloride	5.45	84	3925	0.197	ng	98
20) 3-Chloro-1-propene (Al...	5.56	41	6057	0.165	ng	90
21) Trichlorotrifluoroethane	5.68	151	3558	0.224	ng	97
22) Carbon Disulfide	5.73	76	33438	0.413	ng	99
23) trans-1,2-Dichloroethene	6.24	61	5592	0.187	ng	95
24) 1,1-Dichloroethane	6.42	63	6816	0.187	ng	91
25) Methyl tert-Butyl Ether	6.48	73	11666	0.203	ng	94
26) Vinyl Acetate	6.54	86	1823	0.515	ng	# 91
27) 2-Butanone (MEK)	6.76	72	4382	0.337	ng	# 79
28) cis-1,2-Dichloroethene	7.16	61	5250	0.182	ng	98
29) Diisopropyl Ether	7.38	87	6112	0.436	ng	99
30) Ethyl Acetate	7.38	61	6051	0.696	ng	99
31) n-Hexane	7.39	57	6331	0.191	ng	99
32) Chloroform	7.43	83	6802	0.206	ng	99
34) Tetrahydrofuran (THF)	7.86	72	4558	0.351	ng	# 80
35) Ethyl tert-Butyl Ether	7.91	87	8684	0.412	ng	99
36) 1,2-Dichloroethane	8.19	62	5245	0.210	ng	95
38) 1,1,1-Trichloroethane	8.47	97	6024	0.225	ng	99
39) Isopropyl Acetate	9.37	61	23206	No Calib		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	8.98	78	14838	0.200	ng	99
42) Carbon Tetrachloride	9.14	117	5343	0.232	ng	98
43) Cyclohexane	9.28	84	11227	0.411	ng	99
44) tert-Amyl Methyl Ether	9.68	73	20689	0.393	ng	96
45) 1,2-Dichloropropane	9.92	63	3640	0.172	ng	98
46) Bromodichloromethane	10.14	83	5692	0.226	ng	91
47) Trichloroethene	10.21	130	4264	0.224	ng	98
48) 1,4-Dioxane	10.21	88	3058	0.204	ng	92
49) 2,2,4-Trimethylpentane...	10.30	57	15601	0.183	ng	96
50) Methyl Methacrylate	10.48	100	2987	0.443	ng	98

Data File : I:\MS13\DATA\2023_02\22\02222312.D
 Acq On : 22 Feb 2023 15:44
 Sample : 0.2ng R13022223 ICAL Std.
 Misc : S35-01202301/S35-02222302 (3/18)

Vial: 13
 Operator: TZ
 Inst : MS13

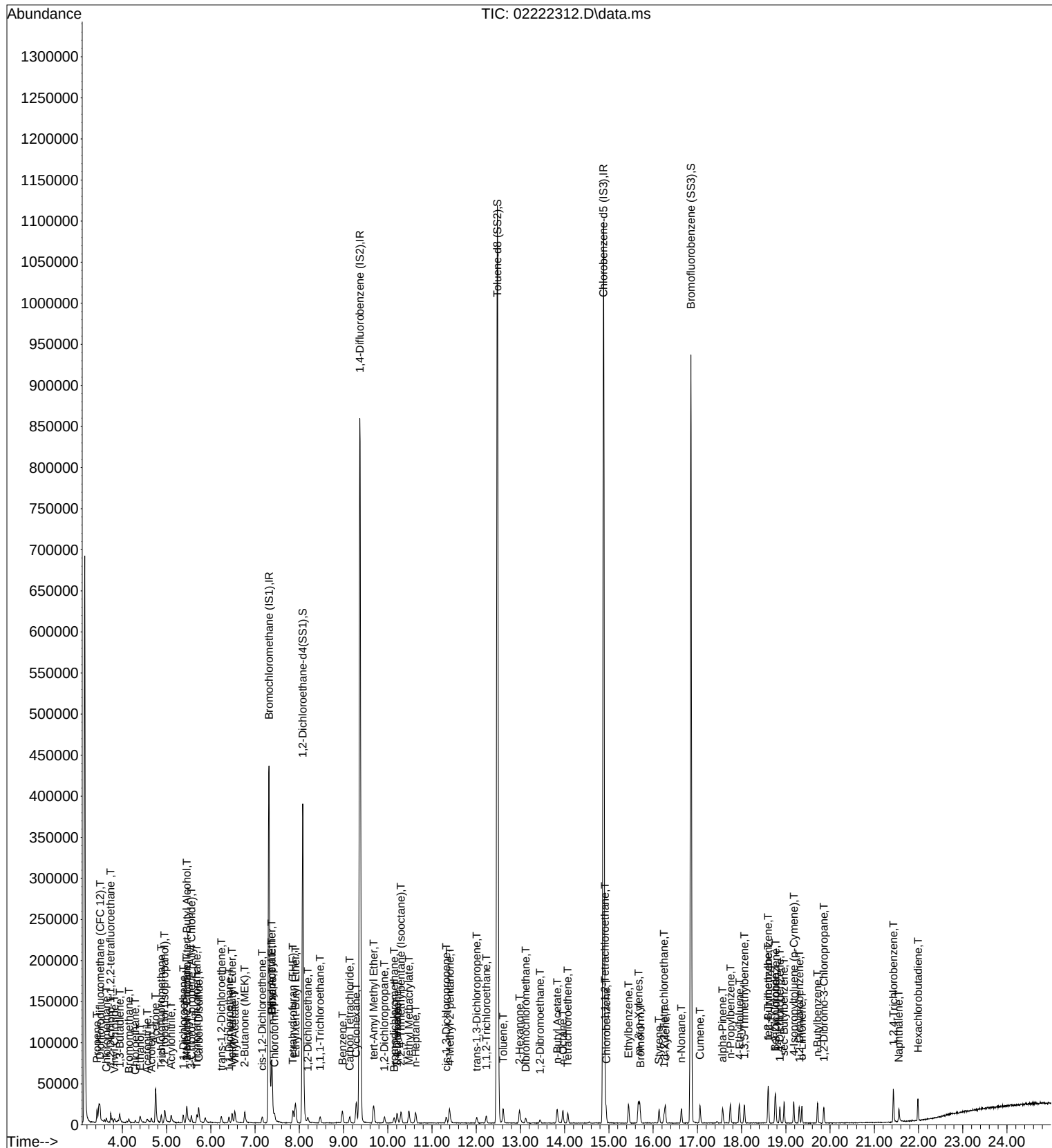
Quant Time: Feb 23 07:42:07 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:41:41 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.63	71	3622	0.191	ng	97
52) cis-1,3-Dichloropropene	11.32	75	5897	0.199	ng	96
53) 4-Methyl-2-pentanone	11.41	58	6348	0.353	ng	95
54) trans-1,3-Dichloropropene	12.01	75	5360	0.195	ng	96
55) 1,1,2-Trichloroethane	12.23	97	4064	0.225	ng	92
58) Toluene	12.61	91	16285	0.237	ng	97
59) 2-Hexanone	12.98	43	16098	0.387	ng	95
60) Dibromochloromethane	13.12	129	4690	0.253	ng	96
61) 1,2-Dibromoethane	13.44	107	4526	0.240	ng	86
62) n-Butyl Acetate	13.83	43	17342	0.360	ng	97
63) n-Octane	13.96	57	3464	0.216	ng	96
64) Tetrachloroethene	14.07	166	4861	0.264	ng	96
65) Chlorobenzene	14.94	112	11028	0.250	ng	95
66) Ethylbenzene	15.44	91	20704	0.268	ng	99
67) m- & p-Xylenes	15.67	91	32803	0.551	ng	98
68) Bromoform	15.72	173	3978	0.257	ng	92
69) Styrene	16.13	104	9967	0.236	ng	97
70) o-Xylene	16.28	91	15693	0.262	ng	100
71) n-Nonane	16.64	43	7612	0.191	ng	93
72) 1,1,2,2-Tetrachloroethane	16.24	83	6254	0.207	ng	95
74) Cumene	17.06	105	18018	0.248	ng	97
75) alpha-Pinene	17.57	93	8488	0.246	ng	94
76) n-Propylbenzene	17.75	91	22199	0.249	ng	98
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	17834	0.264	ng	99
79) 1,3,5-Trimethylbenzene	18.06	105	15284	0.266	ng	96
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.60	105	15131	0.264	ng	100
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	18.75	91	22989	0.488	ng	98
85) 1,3-Dichlorobenzene	18.77	146	9193	0.283	ng	98
86) 1,4-Dichlorobenzene	18.86	146	9361	0.283	ng	94
87) sec-Butylbenzene	18.96	105	20056	0.254	ng	98
88) 4-Isopropyltoluene (p-...	19.18	119	17058	0.263	ng	98
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.31	146	9035	0.279	ng	99
91) d-Limonene	19.36	68	4919	0.219	ng	98
92) 1,2-Dibromo-3-Chloropr...	19.86	157	6158	0.534	ng	85
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	21.43	180	15084	0.735	ng	98
95) Naphthalene	21.55	128	18692	0.331	ng	98
96) n-Dodecane	19.19	58	143	No Calib	#	
97) Hexachlorobutadiene	21.99	225	5656	0.377	ng	95
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	18.60	119	14226	0.265	ng	99
100) n-Butylbenzene	19.72	91	15238	0.250	ng	98
101) 1,1,1,2-Tetrachloroethane	14.91	131	3817	0.248	ng	92

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

Vial: 13
Operator: TZ
Inst : MS13

Quant Time: Feb 23 07:42:07 2023



Data File : I:\MS13\DATA\2023_02\22\02222313.D
 Acq On : 22 Feb 2023 16:21
 Sample : 0.5ng R13022223 ICAL Std.
 Misc : S35-01202301/S35-02222301 (3/18)

Vial: 14
 Operator: TZ
 Inst : MS13

T2 2/23/23

Quant Time: Feb 23 07:42:09 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:41:41 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	197296	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.37	114	865931	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.88	54	153054	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	322562	12.336	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery	=	98.72%	
57) Toluene-d8 (SS2)	12.48	98	975006	13.524	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	108.16%	
73) Bromofluorobenzene (SS3)	16.85	174	352604	15.427	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	123.44%	

Target Compounds

						Qvalue
2) Propene	3.41	42	11673	0.491	ng	98
3) Dichlorodifluoromethan...	3.49	85	20288	0.565	ng	100
4) Chloromethane	3.62	50	14861	0.412	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	3.72	135	10098	0.589	ng	98
6) Vinyl Chloride	3.81	62	12720	0.476	ng	97
7) 1,3-Butadiene	3.92	54	10663	0.478	ng	91
8) Bromomethane	4.13	94	8584	0.490	ng	98
9) Chloroethane	4.28	64	6110	0.418	ng	98
10) Ethanol	4.39	45	25881	1.310	ng	99
11) Acetonitrile	4.55	41	17509	0.335	ng	96
12) Acrolein	4.64	56	12048	0.817	ng	94
13) Acetone	4.74	58	33246	2.183	ng	99
14) Trichlorofluoromethane	4.87	101	17747	0.568	ng	100
15) 2-Propanol (Isopropanol)	4.94	45	55241	0.831	ng	92
16) Acrylonitrile	5.10	53	24201	0.821	ng	98
17) 1,1-Dichloroethene	5.37	96	9460	0.525	ng	97
18) 2-Methyl-2-Propanol (t...	5.44	59	52066	1.012	ng	98
19) Methylene Chloride	5.45	84	10118	0.505	ng	98
20) 3-Chloro-1-propene (Al...	5.56	41	15453	0.419	ng	96
21) Trichlorotrifluoroethane	5.68	151	9706	0.610	ng	99
22) Carbon Disulfide	5.72	76	78271	0.964	ng	100
23) trans-1,2-Dichloroethene	6.23	61	14356	0.477	ng	99
24) 1,1-Dichloroethane	6.40	63	17592	0.482	ng	100
25) Methyl tert-Butyl Ether	6.47	73	30504	0.529	ng	97
26) Vinyl Acetate	6.54	86	4482	1.263	ng	# 81
27) 2-Butanone (MEK)	6.76	72	11355	0.870	ng	# 89
28) cis-1,2-Dichloroethene	7.16	61	14415	0.498	ng	100
29) Diisopropyl Ether	7.37	87	14957	1.063	ng	# 92
30) Ethyl Acetate	7.37	61	16709	1.915	ng	95
31) n-Hexane	7.39	57	15459	0.465	ng	100
32) Chloroform	7.44	83	17425	0.526	ng	98
34) Tetrahydrofuran (THF)	7.84	72	11428	0.877	ng	# 87
35) Ethyl tert-Butyl Ether	7.91	87	22379	1.057	ng	98
36) 1,2-Dichloroethane	8.19	62	12970	0.517	ng	97
38) 1,1,1-Trichloroethane	8.47	97	16099	0.596	ng	98
39) Isopropyl Acetate	9.37	61	23631	No Calib		
40) 1-Butanol	8.95	56	116	No Calib	#	
41) Benzene	8.97	78	36364	0.485	ng	98
42) Carbon Tetrachloride	9.14	117	13646	0.589	ng	97
43) Cyclohexane	9.29	84	28000	1.018	ng	98
44) tert-Amyl Methyl Ether	9.67	73	54617	1.029	ng	98
45) 1,2-Dichloropropane	9.92	63	9874	0.464	ng	97
46) Bromodichloromethane	10.14	83	13302	0.524	ng	96
47) Trichloroethene	10.22	130	11006	0.573	ng	96
48) 1,4-Dioxane	10.20	88	7250	0.480	ng	98
49) 2,2,4-Trimethylpentane...	10.30	57	40216	0.468	ng	98
50) Methyl Methacrylate	10.47	100	7371	1.084	ng	96

Data File : I:\MS13\DATA\2023_02\22\02222313.D
 Acq On : 22 Feb 2023 16:21
 Sample : 0.5ng R13022223 ICAL Std.
 Misc : S35-01202301/S35-02222301 (3/18)

Vial: 14
 Operator: TZ
 Inst : MS13

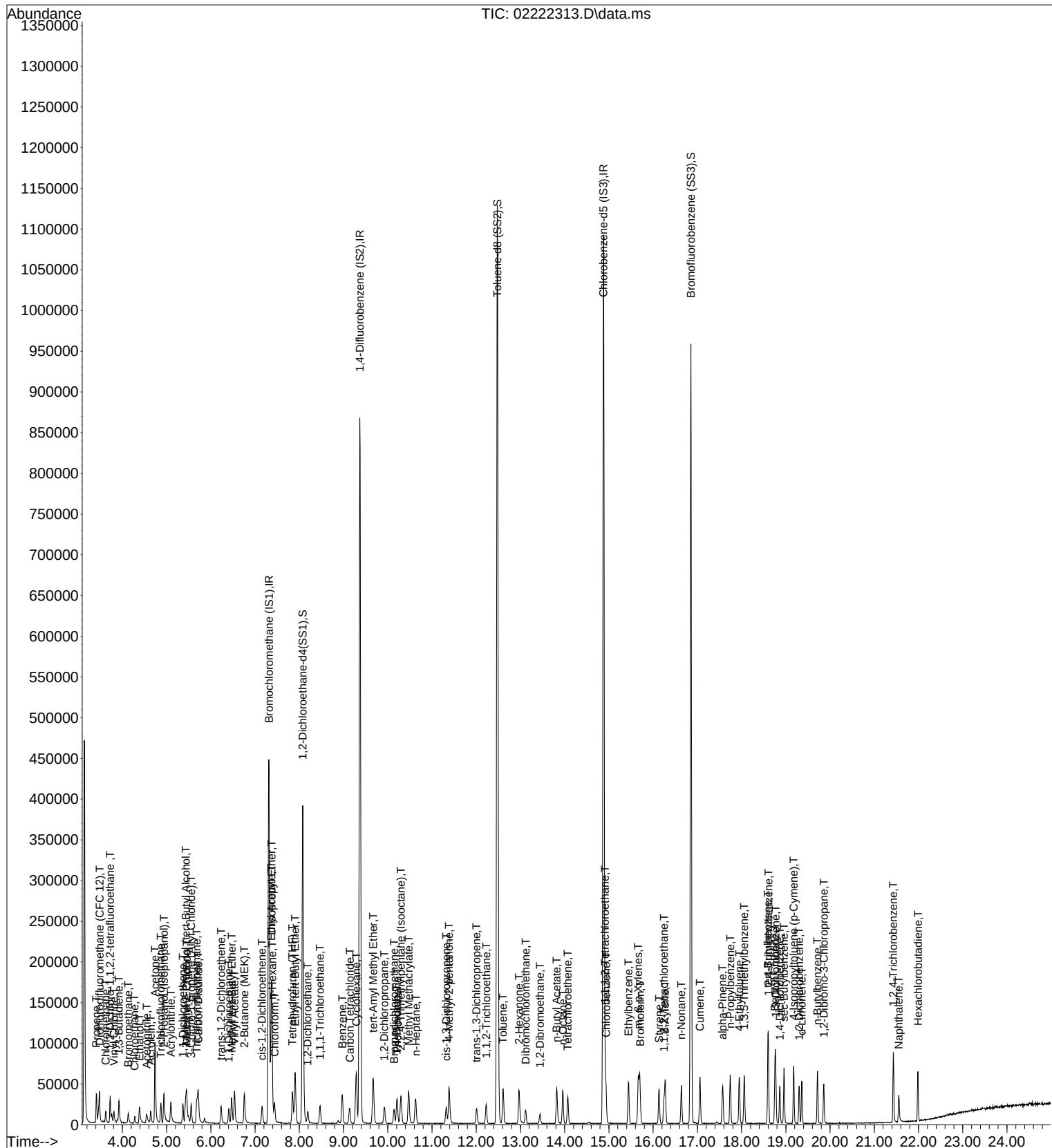
Quant Time: Feb 23 07:42:09 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:41:41 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.64	71	8747	0.457	ng	96
52) cis-1,3-Dichloropropene	11.32	75	15905	0.532	ng	100
53) 4-Methyl-2-pentanone	11.38	58	16116	0.890	ng	94
54) trans-1,3-Dichloropropene	12.00	75	13540	0.488	ng	95
55) 1,1,2-Trichloroethane	12.23	97	9696	0.533	ng	96
58) Toluene	12.60	91	39736	0.581	ng	97
59) 2-Hexanone	12.97	43	38563	0.931	ng	97
60) Dibromochloromethane	13.12	129	11990	0.650	ng	99
61) 1,2-Dibromoethane	13.44	107	10738	0.572	ng	99
62) n-Butyl Acetate	13.82	43	42250	0.881	ng	99
63) n-Octane	13.96	57	8568	0.536	ng	95
64) Tetrachloroethene	14.07	166	13187	0.717	ng	96
65) Chlorobenzene	14.94	112	26893	0.612	ng	97
66) Ethylbenzene	15.44	91	45806	0.594	ng	100
67) m- & p-Xylenes	15.66	91	74528	1.257	ng	100
68) Bromoform	15.71	173	10508	0.682	ng	96
69) Styrene	16.14	104	25573	0.607	ng	99
70) o-Xylene	16.27	91	36933	0.618	ng	98
71) n-Nonane	16.64	43	18702	0.470	ng	98
72) 1,1,2,2-Tetrachloroethane	16.24	83	16226	0.539	ng	98
74) Cumene	17.06	105	46380	0.642	ng	98
75) alpha-Pinene	17.57	93	22243	0.647	ng	95
76) n-Propylbenzene	17.74	91	55005	0.619	ng	99
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	44306	0.659	ng	99
79) 1,3,5-Trimethylbenzene	18.06	105	38190	0.666	ng	100
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.61	105	37344	0.653	ng	99
83) n-Decane	17.06	58	400	No Calib	#	
84) Benzyl Chloride	18.75	91	55758	1.187	ng	98
85) 1,3-Dichlorobenzene	18.77	146	22130	0.684	ng	100
86) 1,4-Dichlorobenzene	18.86	146	21523	0.653	ng	99
87) sec-Butylbenzene	18.96	105	51260	0.652	ng	99
88) 4-Isopropyltoluene (p-...	19.18	119	43745	0.678	ng	100
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.30	146	22241	0.690	ng	97
91) d-Limonene	19.36	68	12409	0.554	ng	99
92) 1,2-Dibromo-3-Chloropr...	19.86	157	15282	1.329	ng	92
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	21.43	180	30117	1.472	ng	98
95) Naphthalene	21.55	128	33943	0.603	ng	98
96) n-Dodecane	19.18	58	1264	No Calib	#	
97) Hexachlorobutadiene	21.99	225	12469	0.833	ng	98
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	18.59	119	37088	0.693	ng	99
100) n-Butylbenzene	19.72	91	38765	0.638	ng	98
101) 1,1,1,2-Tetrachloroethane	14.91	131	10495	0.685	ng	96

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

Vial: 14
Operator: TZ
Inst : MS13

Quant Time: Feb 23 07:42:09 2023



Data File : I:\MS13\DATA\2023_02\22\02222314.D
 Acq On : 22 Feb 2023 16:58
 Sample : 1.0ng R13022223 ICAL Std.
 Misc : S35-01202301/S35-02222301 (3/18)

Vial: 14
 Operator: TZ
 Inst : MS13

T2 2/23/23

Quant Time: Feb 23 07:42:10 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:41:41 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	194376	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.38	114	845104	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	149605	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	317545	12.327	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	98.64%
57) Toluene-d8 (SS2)	12.48	98	953895	13.536	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	108.32%
73) Bromofluorobenzene (SS3)	16.85	174	349014	15.622	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	124.96%

Target Compounds

						Qvalue
2) Propene	3.40	42	20631	0.881	ng	99
3) Dichlorodifluoromethan...	3.47	85	39670	1.121	ng	98
4) Chloromethane	3.61	50	28774	0.809	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	3.71	135	19955	1.181	ng	100
6) Vinyl Chloride	3.80	62	24847	0.943	ng	97
7) 1,3-Butadiene	3.91	54	19616	0.893	ng	93
8) Bromomethane	4.12	94	17181	0.995	ng	99
9) Chloroethane	4.26	64	12504	0.869	ng	96
10) Ethanol	4.39	45	50397	2.590	ng	99
11) Acetonitrile	4.54	41	33680	0.655	ng	96
12) Acrolein	4.63	56	21975	1.513	ng	92
13) Acetone	4.73	58	63383	4.224	ng	98
14) Trichlorofluoromethane	4.86	101	34292	1.114	ng	99
15) 2-Propanol (Isopropanol)	4.94	45	100726	1.539	ng	92
16) Acrylonitrile	5.10	53	46663	1.607	ng	99
17) 1,1-Dichloroethene	5.36	96	18667	1.051	ng	96
18) 2-Methyl-2-Propanol (t...	5.42	59	100286	1.979	ng	98
19) Methylene Chloride	5.45	84	18913	0.958	ng	99
20) 3-Chloro-1-propene (Al...	5.55	41	31048	0.855	ng	92
21) Trichlorotrifluoroethane	5.68	151	18210	1.161	ng	98
22) Carbon Disulfide	5.70	76	144284	1.805	ng	99
23) trans-1,2-Dichloroethene	6.22	61	27289	0.921	ng	100
24) 1,1-Dichloroethane	6.40	63	34045	0.947	ng	98
25) Methyl tert-Butyl Ether	6.47	73	58535	1.031	ng	99
26) Vinyl Acetate	6.54	86	9161	2.620	ng	# 95
27) 2-Butanone (MEK)	6.75	72	22114	1.720	ng	# 90
28) cis-1,2-Dichloroethene	7.16	61	25981	0.911	ng	100
29) Diisopropyl Ether	7.37	87	28765	2.074	ng	95
30) Ethyl Acetate	7.37	61	31690	3.686	ng	96
31) n-Hexane	7.38	57	30586	0.935	ng	97
32) Chloroform	7.44	83	34130	1.046	ng	98
34) Tetrahydrofuran (THF)	7.84	72	21445	1.671	ng	# 89
35) Ethyl tert-Butyl Ether	7.90	87	42698	2.047	ng	96
36) 1,2-Dichloroethane	8.19	62	25767	1.043	ng	99
38) 1,1,1-Trichloroethane	8.46	97	30235	1.147	ng	99
39) Isopropyl Acetate	9.37	61	22865	No Calib		
40) 1-Butanol	8.93	56	349	No Calib	#	
41) Benzene	8.97	78	72705	0.995	ng	100
42) Carbon Tetrachloride	9.13	117	26392	1.167	ng	99
43) Cyclohexane	9.28	84	52452	1.955	ng	97
44) tert-Amyl Methyl Ether	9.67	73	105882	2.043	ng	99
45) 1,2-Dichloropropane	9.93	63	18204	0.876	ng	98
46) Bromodichloromethane	10.14	83	26038	1.052	ng	100
47) Trichloroethene	10.21	130	20608	1.099	ng	99
48) 1,4-Dioxane	10.20	88	13971	0.947	ng	97
49) 2,2,4-Trimethylpentane...	10.30	57	75673	0.902	ng	98
50) Methyl Methacrylate	10.47	100	14759	2.224	ng	97

Data File : I:\MS13\DATA\2023_02\22\02222314.D
 Acq On : 22 Feb 2023 16:58
 Sample : 1.0ng R13022223 ICAL Std.
 Misc : S35-01202301/S35-02222301 (3/18)

Vial: 14
 Operator: TZ
 Inst : MS13

Quant Time: Feb 23 07:42:10 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:41:41 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.63	71	17173	0.919	ng	98
52) cis-1,3-Dichloropropene	11.32	75	29597	1.014	ng	100
53) 4-Methyl-2-pentanone	11.38	58	31368	1.775	ng	98
54) trans-1,3-Dichloropropene	12.00	75	27738	1.024	ng	98
55) 1,1,2-Trichloroethane	12.23	97	18814	1.059	ng	99
58) Toluene	12.61	91	76661	1.146	ng	99
59) 2-Hexanone	12.97	43	73271	1.809	ng	100
60) Dibromochloromethane	13.11	129	23256	1.290	ng	97
61) 1,2-Dibromoethane	13.44	107	21179	1.155	ng	99
62) n-Butyl Acetate	13.82	43	81774	1.745	ng	99
63) n-Octane	13.96	57	15780	1.011	ng	98
64) Tetrachloroethene	14.07	166	24407	1.358	ng	99
65) Chlorobenzene	14.94	112	52062	1.213	ng	99
66) Ethylbenzene	15.44	91	87454	1.161	ng	100
67) m- & p-Xylenes	15.67	91	144046	2.485	ng	100
68) Bromoform	15.71	173	20721	1.376	ng	99
69) Styrene	16.13	104	51299	1.246	ng	99
70) o-Xylene	16.27	91	71204	1.219	ng	99
71) n-Nonane	16.64	43	35770	0.920	ng	97
72) 1,1,2,2-Tetrachloroethane	16.24	83	30963	1.053	ng	97
74) Cumene	17.06	105	88894	1.258	ng	98
75) alpha-Pinene	17.57	93	43487	1.295	ng	98
76) n-Propylbenzene	17.74	91	105751	1.218	ng	99
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	88747	1.350	ng	97
79) 1,3,5-Trimethylbenzene	18.06	105	73709	1.314	ng	99
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.60	105	73751	1.319	ng	99
83) n-Decane	17.06	58	867	No Calib	#	
84) Benzyl Chloride	18.75	91	115608	2.518	ng	99
85) 1,3-Dichlorobenzene	18.77	146	43924	1.388	ng	100
86) 1,4-Dichlorobenzene	18.86	146	42822	1.330	ng	100
87) sec-Butylbenzene	18.96	105	98318	1.279	ng	98
88) 4-Isopropyltoluene (p-...	19.18	119	84790	1.344	ng	98
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.30	146	42944	1.362	ng	99
91) d-Limonene	19.36	68	24823	1.135	ng	99
92) 1,2-Dibromo-3-Chloropr...	19.86	157	30711	2.732	ng	94
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	21.43	180	61624	3.081	ng	99
95) Naphthalene	21.55	128	73520	1.337	ng	98
96) n-Dodecane	19.18	58	2420	No Calib	#	
97) Hexachlorobutadiene	21.99	225	25365	1.734	ng	98
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	18.59	119	71978	1.376	ng	100
100) n-Butylbenzene	19.72	91	74844	1.261	ng	98
101) 1,1,1,2-Tetrachloroethane	14.91	131	19833	1.324	ng	99

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

Data File : I:\MS13\DATA\2023_02\22\02222314.D
Acq On : 22 Feb 2023 16:58
Sample : 1.0ng R13022223 ICAL Std.
Misc : S35-01202301/S35-02222301 (3/18)

Vial: 14
Operator: TZ
Inst : MS13

Quant Time: Feb 23 07:42:10 2023

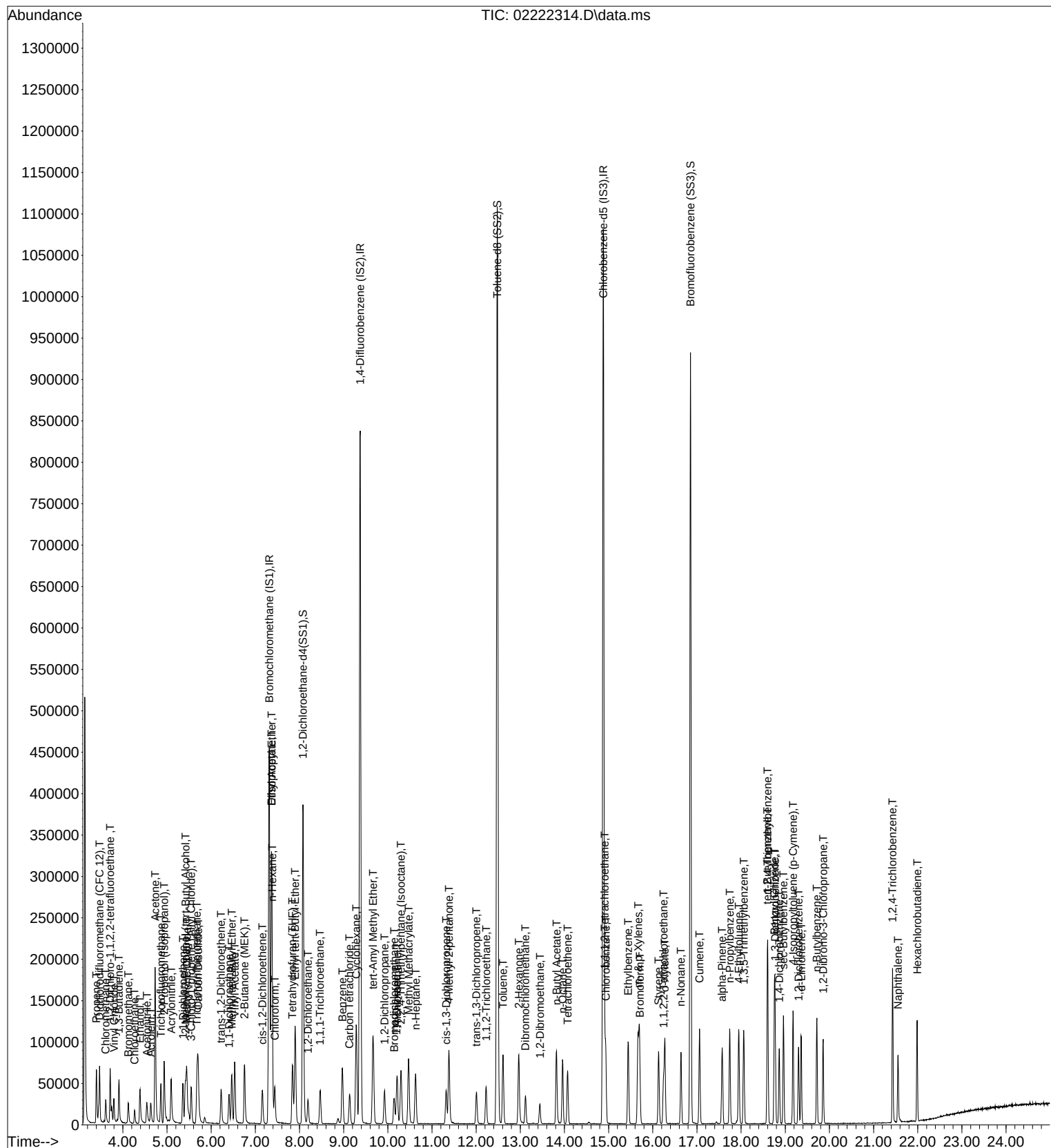
Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Thu Feb 23 07:41:41 2023

Response via : Initial Calibration

DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_02\22\02222315.D
 Acq On : 22 Feb 2023 17:35
 Sample : 5.0ng R1302223 ICAL Std.
 Misc : S35-01202301/S35-02222301 (3/18)

Vial: 14
 Operator: TZ
 Inst : MS13

TZ 2/23/23

Quant Time: Feb 23 07:42:12 2023

Quant Method : I:\MS13\METHODS\R1302223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:41:41 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.34	130	196894	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	9.39	114	865078	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	14.88	54	153959	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.09	65	326845	12.525	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	100.24%
57) Toluene-d8 (SS2)	12.48	98	972936	13.416	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	107.36%
73) Bromofluorobenzene (SS3)	16.86	174	361375	15.718	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	125.76%

Target Compounds

						Qvalue
2) Propene	3.39	42	97454	4.106	ng	99
3) Dichlorodifluoromethan...	3.47	85	189755	5.295	ng	100
4) Chloromethane	3.60	50	130289	3.617	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	3.71	135	96653	5.648	ng	99
6) Vinyl Chloride	3.79	62	120396	4.512	ng	99
7) 1,3-Butadiene	3.91	54	93285	4.194	ng	98
8) Bromomethane	4.12	94	82442	4.715	ng	99
9) Chloroethane	4.26	64	59056	4.050	ng	98
10) Ethanol	4.41	45	225879	11.460	ng	100
11) Acetonitrile	4.56	41	154722	2.969	ng	100
12) Acrolein	4.63	56	109644	7.453	ng	100
13) Acetone	4.74	58	303843	19.992	ng	97
14) Trichlorofluoromethane	4.86	101	166814	5.349	ng	98
15) 2-Propanol (Isopropanol)	4.96	45	465642	7.022	ng	96
16) Acrylonitrile	5.11	53	228923	7.785	ng	100
17) 1,1-Dichloroethene	5.36	96	88832	4.939	ng	98
18) 2-Methyl-2-Propanol (t...	5.43	59	485775	9.463	ng	100
19) Methylene Chloride	5.47	84	90443	4.523	ng	100
20) 3-Chloro-1-propene (Al...	5.55	41	143143	3.891	ng	98
21) Trichlorotrifluoroethane	5.68	151	90245	5.680	ng	100
22) Carbon Disulfide	5.70	76	676216	8.349	ng	99
23) trans-1,2-Dichloroethene	6.24	61	137650	4.587	ng	98
24) 1,1-Dichloroethane	6.42	63	162746	4.469	ng	100
25) Methyl tert-Butyl Ether	6.47	73	283833	4.934	ng	98
26) Vinyl Acetate	6.55	86	45358	12.807	ng	98
27) 2-Butanone (MEK)	6.76	72	111868	8.590	ng	99
28) cis-1,2-Dichloroethene	7.18	61	128737	4.458	ng	100
29) Diisopropyl Ether	7.37	87	138251	9.842	ng	97
30) Ethyl Acetate	7.38	61	152174	17.472	ng	98
31) n-Hexane	7.39	57	141170	4.259	ng	99
32) Chloroform	7.46	83	162369	4.911	ng	99
34) Tetrahydrofuran (THF)	7.84	72	105070	8.082	ng	99
35) Ethyl tert-Butyl Ether	7.91	87	212291	10.048	ng	99
36) 1,2-Dichloroethane	8.21	62	130204	5.203	ng	100
38) 1,1,1-Trichloroethane	8.48	97	148229	5.492	ng	100
39) Isopropyl Acetate	9.39	61	24233	No Calib		
40) 1-Butanol	8.89	56	4295	No Calib		
41) Benzene	8.98	78	351983	4.704	ng	100
42) Carbon Tetrachloride	9.15	117	130786	5.652	ng	99
43) Cyclohexane	9.30	84	254835	9.278	ng	99
44) tert-Amyl Methyl Ether	9.67	73	520180	9.805	ng	99
45) 1,2-Dichloropropane	9.93	63	86331	4.057	ng	100
46) Bromodichloromethane	10.15	83	130457	5.149	ng	99
47) Trichloroethene	10.22	130	101284	5.276	ng	100
48) 1,4-Dioxane	10.19	88	68981	4.568	ng	100
49) 2,2,4-Trimethylpentane...	10.30	57	363938	4.238	ng	100
50) Methyl Methacrylate	10.47	100	72911	10.732	ng	98

Data File : I:\MS13\DATA\2023_02\22\02222315.D
 Acq On : 22 Feb 2023 17:35
 Sample : 5.0ng R13022223 ICAL Std.
 Misc : S35-01202301/S35-02222301 (3/18)

Vial: 14
 Operator: TZ
 Inst : MS13

Quant Time: Feb 23 07:42:12 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:41:41 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

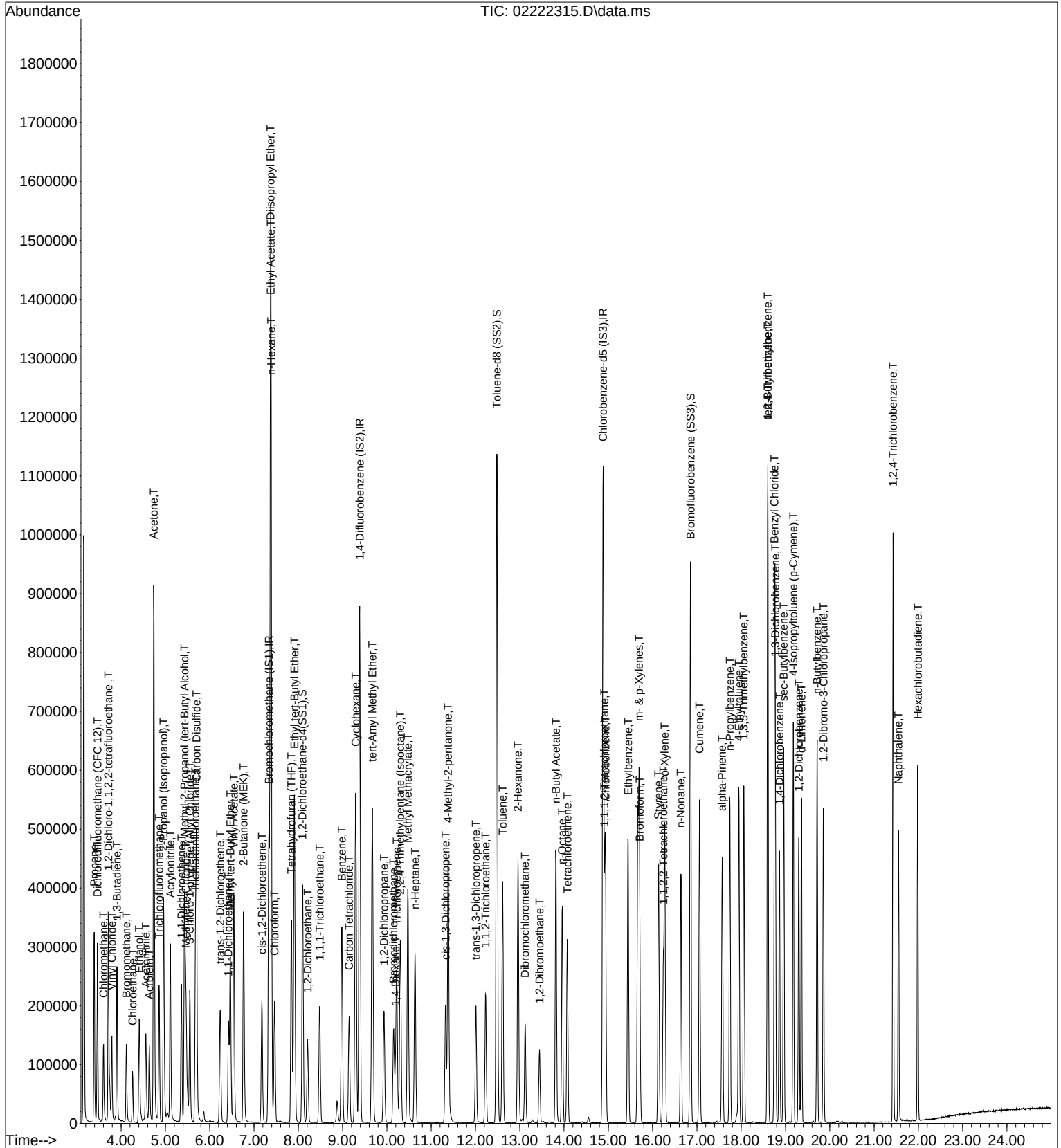
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.64	71	85147	4.450	ng	99
52) cis-1,3-Dichloropropene	11.33	75	148223	4.960	ng	100
53) 4-Methyl-2-pentanone	11.38	58	154486	8.539	ng	98
54) trans-1,3-Dichloropropene	12.01	75	137516	4.957	ng	100
55) 1,1,2-Trichloroethane	12.23	97	90133	4.957	ng	99
58) Toluene	12.61	91	373776	5.432	ng	100
59) 2-Hexanone	12.96	43	367090	8.807	ng	100
60) Dibromochloromethane	13.12	129	117185	6.317	ng	99
61) 1,2-Dibromoethane	13.44	107	105751	5.605	ng	99
62) n-Butyl Acetate	13.81	43	403520	8.366	ng	100
63) n-Octane	13.96	57	75125	4.676	ng	99
64) Tetrachloroethene	14.08	166	118413	6.403	ng	100
65) Chlorobenzene	14.94	112	250581	5.672	ng	99
66) Ethylbenzene	15.45	91	430348	5.552	ng	99
67) m- & p-Xylenes	15.69	91	701452	11.760	ng	99
68) Bromoform	15.71	173	105827	6.829	ng	100
69) Styrene	16.13	104	260316	6.143	ng	100
70) o-Xylene	16.27	91	349169	5.808	ng	99
71) n-Nonane	16.64	43	173469	4.336	ng	99
72) 1,1,2,2-Tetrachloroethane	16.24	83	157584	5.208	ng	99
74) Cumene	17.06	105	435022	5.983	ng	100
75) alpha-Pinene	17.57	93	212603	6.152	ng	99
76) n-Propylbenzene	17.74	91	520443	5.826	ng	100
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	425730	6.292	ng	100
79) 1,3,5-Trimethylbenzene	18.06	105	364899	6.323	ng	100
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.60	105	361919	6.289	ng	98
83) n-Decane	17.06	58	3500	No Calib		
84) Benzyl Chloride	18.75	91	609021	12.889	ng	100
85) 1,3-Dichlorobenzene	18.77	146	217375	6.677	ng	100
86) 1,4-Dichlorobenzene	18.86	146	215644	6.507	ng	100
87) sec-Butylbenzene	18.96	105	479577	6.060	ng	100
88) 4-Isopropyltoluene (p-...	19.18	119	418732	6.448	ng	100
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.30	146	215951	6.656	ng	100
91) d-Limonene	19.36	68	128923	5.727	ng	99
92) 1,2-Dibromo-3-Chloropr...	19.86	157	167105	14.444	ng	99
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	21.43	180	320445	15.567	ng	99
95) Naphthalene	21.55	128	389723	6.887	ng	100
96) n-Dodecane	19.18	58	12499	No Calib	#	
97) Hexachlorobutadiene	21.99	225	123386	8.198	ng	99
98) Cyclohexanone	15.66	55	409	No Calib	#	
99) tert-Butylbenzene	18.60	119	351649	6.533	ng	100
100) n-Butylbenzene	19.72	91	377617	6.183	ng	99
101) 1,1,1,2-Tetrachloroethane	14.91	131	97940	6.354	ng	99

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

Data File : I:\MS13\DATA\2023_02\22\02222315.D
Acq On : 22 Feb 2023 17:35
Sample : 5.0ng R13022223 ICAL Std.
Misc : S35-01202301/S35-02222301 (3/18)

Vial: 14
Operator: TZ
Inst : MS13

Quant Time: Feb 23 07:42:12 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:41:41 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_02\22\02222316.D
 Acq On : 22 Feb 2023 18:11
 Sample : 25ng R13022223 ICAL Std.
 Misc : S35-01202301/S35-02162304 (3/18)

Vial: 15
 Operator: TZ
 Inst : MS13

TZ 2/23/23

Quant Time: Feb 23 07:42:14 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:41:41 2023

Response via : Initial Calibration

DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.36	130	196118	12.500	ng	0.00
37) 1,4-Difluorobenzene (IS2)	9.40	114	869429	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	14.88	54	151692	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.11	65	325087	12.507	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	100.08%
57) Toluene-d8 (SS2)	12.49	98	980325	13.720	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	109.76%
73) Bromofluorobenzene (SS3)	16.86	174	362583	16.006	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	128.08%

Target Compounds

						Qvalue
2) Propene	3.37	42	477371	20.194	ng	100
3) Dichlorodifluoromethan...	3.45	85	948192	26.565	ng	100
4) Chloromethane	3.59	50	675548	18.826	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	3.70	135	486004	28.514	ng	100
6) Vinyl Chloride	3.78	62	605029	22.764	ng	100
7) 1,3-Butadiene	3.90	54	472175	21.313	ng	100
8) Bromomethane	4.12	94	414409	23.792	ng	100
9) Chloroethane	4.26	64	291602	20.075	ng	100
10) Ethanol	4.44	45	1141250	58.128	ng	100
11) Acetonitrile	4.58	41	773895	14.910	ng	100
12) Acrolein	4.65	56	558174	38.093	ng	100
13) Acetone	4.75	58	1463979	96.707	ng	100
14) Trichlorofluoromethane	4.86	101	839191	27.016	ng	100
15) 2-Propanol (Isopropanol)	4.98	45	2338481	35.405	ng	99
16) Acrylonitrile	5.13	53	1142281	38.999	ng	100
17) 1,1-Dichloroethene	5.36	96	449585	25.095	ng	100
18) 2-Methyl-2-Propanol (t...	5.45	59	2479355	48.490	ng	100
19) Methylene Chloride	5.49	84	450253	22.604	ng	100
20) 3-Chloro-1-propene (Al...	5.56	41	715918	19.536	ng	100
21) Trichlorotrifluoroethane	5.68	151	455983	28.814	ng	100
22) Carbon Disulfide	5.71	76	3366280	41.729	ng	100
23) trans-1,2-Dichloroethene	6.26	61	697156	23.326	ng	100
24) 1,1-Dichloroethane	6.44	63	811994	22.387	ng	100
25) Methyl tert-Butyl Ether	6.47	73	1444098	25.203	ng	100
26) Vinyl Acetate	6.56	86	231644	65.663	ng	100
27) 2-Butanone (MEK)	6.78	72	563872	43.468	ng	100
28) cis-1,2-Dichloroethene	7.20	61	656379	22.818	ng	100
29) Diisopropyl Ether	7.38	87	661314	47.267	ng	100
30) Ethyl Acetate	7.39	61	709023	81.728	ng	100
31) n-Hexane	7.39	57	647919	19.623	ng	100
32) Chloroform	7.49	83	828690	25.165	ng	100
34) Tetrahydrofuran (THF)	7.85	72	529978	40.930	ng	100
35) Ethyl tert-Butyl Ether	7.92	87	1062604	50.493	ng	100
36) 1,2-Dichloroethane	8.23	62	659844	26.470	ng	100
38) 1,1,1-Trichloroethane	8.50	97	753957	27.796	ng	100
39) Isopropyl Acetate	9.39	61	23997	No Calib		
40) 1-Butanol	8.89	56	23666	No Calib		
41) Benzene	8.99	78	1778544	23.649	ng	100
42) Carbon Tetrachloride	9.16	117	673507	28.959	ng	100
43) Cyclohexane	9.30	84	1277540	46.278	ng	100
44) tert-Amyl Methyl Ether	9.68	73	2636106	49.441	ng	100
45) 1,2-Dichloropropane	9.94	63	435927	20.382	ng	100
46) Bromodichloromethane	10.16	83	671421	26.367	ng	100
47) Trichloroethene	10.23	130	519021	26.903	ng	100
48) 1,4-Dioxane	10.20	88	365397	24.076	ng	100
49) 2,2,4-Trimethylpentane...	10.31	57	1781627	20.641	ng	100
50) Methyl Methacrylate	10.49	100	381374	55.852	ng	100

Data File : I:\MS13\DATA\2023_02\22\02222316.D
 Acq On : 22 Feb 2023 18:11
 Sample : 25ng R13022223 ICAL Std.
 Misc : S35-01202301/S35-02162304 (3/18)

Vial: 15
 Operator: TZ
 Inst : MS13

Quant Time: Feb 23 07:42:14 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:41:41 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.64	71	427635	22.238	ng	100
52) cis-1,3-Dichloropropene	11.33	75	764284	25.445	ng	100
53) 4-Methyl-2-pentanone	11.39	58	796869	43.828	ng	100
54) trans-1,3-Dichloropropene	12.02	75	714101	25.614	ng	100
55) 1,1,2-Trichloroethane	12.24	97	458135	25.070	ng	100
58) Toluene	12.62	91	1883948	27.786	ng	100
59) 2-Hexanone	12.97	43	1934416	47.103	ng	100
60) Dibromochloromethane	13.13	129	612003	33.482	ng	100
61) 1,2-Dibromoethane	13.45	107	550571	29.616	ng	100
62) n-Butyl Acetate	13.82	43	2117995	44.566	ng	100
63) n-Octane	13.96	57	376501	23.783	ng	100
64) Tetrachloroethene	14.08	166	598090	32.826	ng	100
65) Chlorobenzene	14.94	112	1280190	29.411	ng	100
66) Ethylbenzene	15.45	91	2181775	28.570	ng	100
67) m- & p-Xylenes	15.69	91	3530445	60.071	ng	100
68) Bromoform	15.72	173	562177	36.819	ng	100
69) Styrene	16.14	104	1359499	32.560	ng	100
70) o-Xylene	16.28	91	1758224	29.682	ng	100
71) n-Nonane	16.64	43	863621	21.910	ng	100
72) 1,1,2,2-Tetrachloroethane	16.24	83	798343	26.781	ng	100
74) Cumene	17.06	105	2199170	30.700	ng	100
75) alpha-Pinene	17.58	93	1061716	31.181	ng	100
76) n-Propylbenzene	17.75	91	2643269	30.034	ng	100
77) 3-Ethyltoluene	17.35	105	678	No Calib	#	
78) 4-Ethyltoluene	17.95	105	2189837	32.847	ng	100
79) 1,3,5-Trimethylbenzene	18.06	105	1857117	32.662	ng	100
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.35	105	678	No Calib	#	
82) 1,2,4-Trimethylbenzene	18.61	105	1839996	32.451	ng	100
83) n-Decane	17.06	58	16831	No Calib		
84) Benzyl Chloride	18.76	91	3218974	69.142	ng	100
85) 1,3-Dichlorobenzene	18.78	146	1099584	34.278	ng	100
86) 1,4-Dichlorobenzene	18.87	146	1123763	34.416	ng	100
87) sec-Butylbenzene	18.96	105	2428004	31.140	ng	100
88) 4-Isopropyltoluene (p-...	19.18	119	2147600	33.563	ng	100
89) 1,2,3-Trimethylbenzene	17.35	105	678	No Calib	#	
90) 1,2-Dichlorobenzene	19.30	146	1104109	34.539	ng	100
91) d-Limonene	19.36	68	671497	30.274	ng	100
92) 1,2-Dibromo-3-Chloropr...	19.86	157	873269	76.610	ng	100
93) n-Undecane	18.27	58	126	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	1729586	85.277	ng	100
95) Naphthalene	21.55	128	2261205	40.557	ng	100
96) n-Dodecane	19.18	58	67141	No Calib	#	
97) Hexachlorobutadiene	21.99	225	597928	40.322	ng	100
98) Cyclohexanone	15.69	55	2409	No Calib		
99) tert-Butylbenzene	18.60	119	1686946	31.807	ng	100
100) n-Butylbenzene	19.72	91	1929324	32.060	ng	100
101) 1,1,1,2-Tetrachloroethane	14.92	131	496552	32.696	ng	100

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

Data File : I:\MS13\DATA\2023_02\22\02222316.D
Acq On : 22 Feb 2023 18:11
Sample : 25ng R13022223 ICAL Std.
Misc : S35-01202301/S35-02162304 (3/18)

Vial: 15
Operator: TZ
Inst : MS13

Quant Time: Feb 23 07:42:14 2023

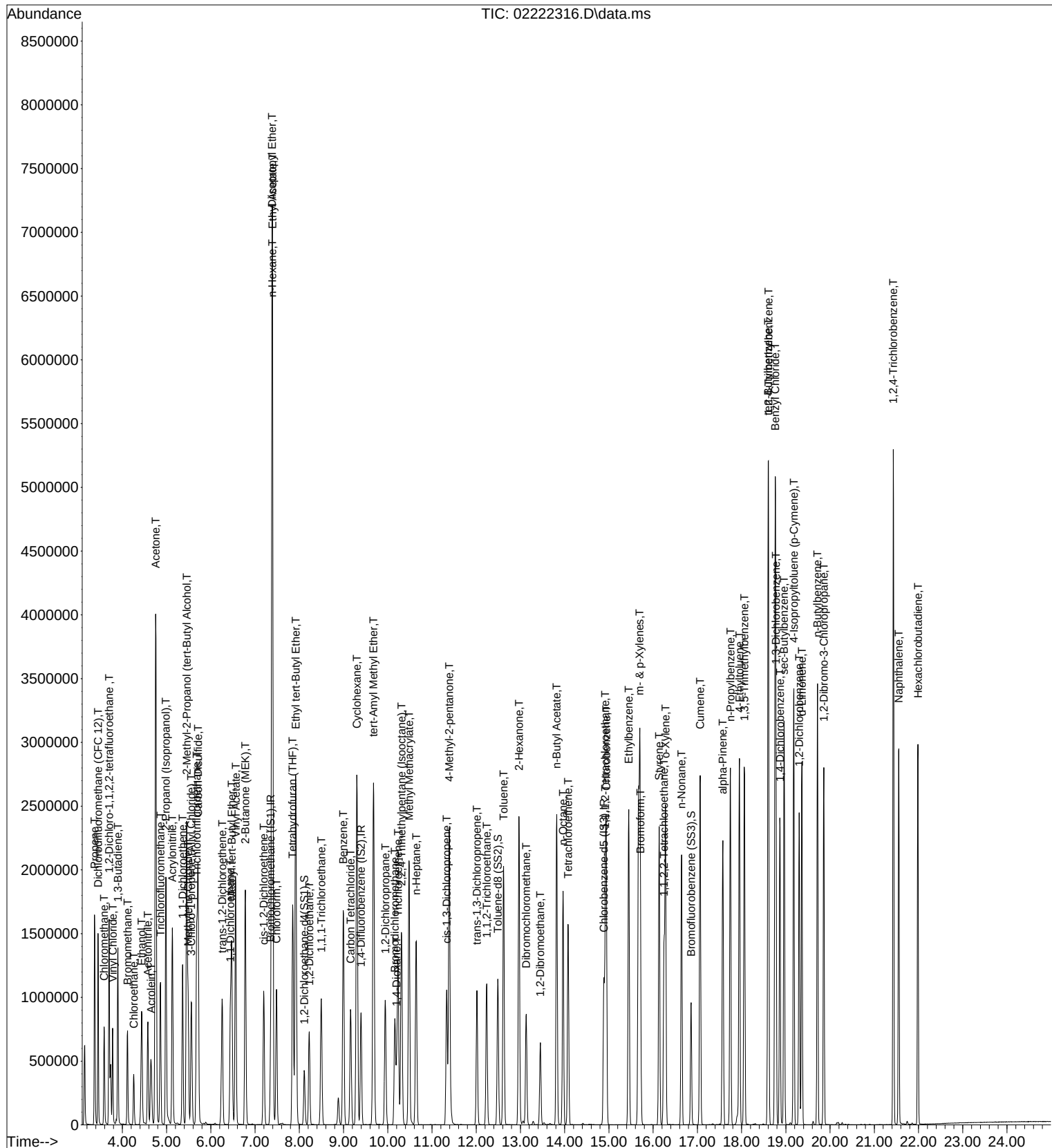
Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Thu Feb 23 07:41:41 2023

Response via : Initial Calibration

DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_02\22\02222321.D
 Acq On : 22 Feb 2023 21:10
 Sample : 25ng R13022223 ICV Std.
 Misc : S35-01202301/S35-02062302 (3/8)

Vial: 1
 Operator: TZ
 Inst : MS13

Tz 2/23/23

Quant Time: Feb 23 08:08:13 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.35	130	220775	12.500	ng	0.00
37) 1,4-Difluorobenzene (IS2)	9.40	114	967607	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	14.88	54	155159	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.12	65	340247	11.613	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.88%
57) Toluene-d8 (SS2)	12.49	98	1064943	13.346	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	106.80%
73) Bromofluorobenzene (SS3)	16.86	174	398905	13.649	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	109.20%

Target Compounds

						Qvalue
2) Propene	3.38	42	461231	20.888	ng	99
3) Dichlorodifluoromethan...	3.46	85	988475	24.444	ng	100
4) Chloromethane	3.59	50	684995	23.490	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	3.71	135	521783	25.557	ng	99
6) Vinyl Chloride	3.79	62	604224	22.375	ng	99
7) 1,3-Butadiene	3.90	54	423487	20.700	ng	96
8) Bromomethane	4.12	94	443948	24.533	ng	99
9) Chloroethane	4.26	64	301713	23.621	ng	99
10) Ethanol	4.45	45	1664014	106.126	ng	99
11) Acetonitrile	4.58	41	776235	19.054	ng	100
12) Acrolein	4.65	56	632453	48.774	ng	99
13) Acetone	4.76	58	1470596	109.894	ng	97
14) Trichlorofluoromethane	4.86	101	876430	24.075	ng	100
15) 2-Propanol (Isopropanol)	4.99	45	2420935	44.812	ng	100
16) Acrylonitrile	5.14	53	1158058	45.364	ng	100
17) 1,1-Dichloroethene	5.36	96	472008	25.249	ng	95
18) 2-Methyl-2-Propanol (t...	5.47	59	2533580	47.957	ng	99
19) Methylene Chloride	5.49	84	472927	24.107	ng	94
20) 3-Chloro-1-propene (Al...	5.56	41	640886	20.459	ng	96
21) Trichlorotrifluoroethane	5.68	151	495306	25.875	ng	97
22) Carbon Disulfide	5.72	76	3521804	45.336	ng	100
23) trans-1,2-Dichloroethene	6.26	61	721229	25.189	ng	97
24) 1,1-Dichloroethane	6.44	63	834811	23.911	ng	100
25) Methyl tert-Butyl Ether	6.48	73	1517692	24.802	ng	99
26) Vinyl Acetate	6.57	86	521718	144.176	ng	# 83
27) 2-Butanone (MEK)	6.79	72	583581	49.125	ng	# 92
28) cis-1,2-Dichloroethene	7.20	61	669422	23.738	ng	96
29) Diisopropyl Ether	7.39	87	712983	48.321	ng	# 22
30) Ethyl Acetate	7.40	61	316025	40.456	ng	95
31) n-Hexane	7.39	57	689138	22.920	ng	99
32) Chloroform	7.49	83	866431	24.359	ng	100
34) Tetrahydrofuran (THF)	7.86	72	540110	44.269	ng	95
35) Ethyl tert-Butyl Ether	7.92	87	1133627	50.300	ng	95
36) 1,2-Dichloroethane	8.23	62	683170	25.358	ng	100
38) 1,1,1-Trichloroethane	8.50	97	802261	25.049	ng	99
39) Isopropyl Acetate	9.39	61	25303	No Calib		
40) 1-Butanol	8.91	56	3419	No Calib	#	
41) Benzene	9.00	78	1873597	24.890	ng	100
42) Carbon Tetrachloride	9.16	117	760309	26.911	ng	99
43) Cyclohexane	9.31	84	1360426	49.300	ng	98
44) tert-Amyl Methyl Ether	9.68	73	2773714	50.809	ng	98
45) 1,2-Dichloropropane	9.94	63	456354	24.030	ng	100
46) Bromodichloromethane	10.16	83	707596	25.422	ng	99
47) Trichloroethene	10.23	130	574511	26.052	ng	99
48) 1,4-Dioxane	10.21	88	402034	26.494	ng	97
49) 2,2,4-Trimethylpentane...	10.31	57	1820129	23.779	ng	99
50) Methyl Methacrylate	10.49	100	408266	52.744	ng	95

Data File : I:\MS13\DATA\2023_02\22\02222321.D
 Acq On : 22 Feb 2023 21:10
 Sample : 25ng R13022223 ICV Std.
 Misc : S35-01202301/S35-02062302 (3/8)

Vial: 1
 Operator: TZ
 Inst : MS13

Quant Time: Feb 23 08:08:13 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.64	71	451986	24.814	ng	97
52) cis-1,3-Dichloropropene	11.33	75	876018	28.386	ng	100
53) 4-Methyl-2-pentanone	11.40	58	819409	50.493	ng	96
54) trans-1,3-Dichloropropene	12.02	75	711813	23.812	ng	100
55) 1,1,2-Trichloroethane	12.24	97	492781	25.293	ng	98
58) Toluene	12.62	91	2019661	26.587	ng	100
59) 2-Hexanone	12.97	43	1933183	52.392	ng	98
60) Dibromochloromethane	13.13	129	653503	29.314	ng	100
61) 1,2-Dibromoethane	13.45	107	585092	27.667	ng	100
62) n-Butyl Acetate	13.82	43	2154260	51.360	ng	98
63) n-Octane	13.96	57	382478	25.605	ng	97
64) Tetrachloroethene	14.08	166	664426	28.752	ng	99
65) Chlorobenzene	14.94	112	1390541	27.753	ng	100
66) Ethylbenzene	15.45	91	2331441	25.727	ng	99
67) m- & p-Xylenes	15.69	91	3763861	51.605	ng	99
68) Bromoform	15.72	173	632952	31.426	ng	100
69) Styrene	16.14	104	1434647	28.607	ng	100
70) o-Xylene	16.28	91	1870717	26.823	ng	99
71) n-Nonane	16.64	43	851480	25.231	ng	97
72) 1,1,2,2-Tetrachloroethane	16.24	83	851029	28.247	ng	100
74) Cumene	17.06	105	2331478	27.487	ng	99
75) alpha-Pinene	17.58	93	1125929	28.770	ng	99
76) n-Propylbenzene	17.75	91	2754929	27.092	ng	99
77) 3-Ethyltoluene	17.34	105	808	No Calib	#	
78) 4-Ethyltoluene	17.95	105	2324976	28.574	ng	99
79) 1,3,5-Trimethylbenzene	18.06	105	2012208	27.966	ng	99
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.34	105	808	No Calib	#	
82) 1,2,4-Trimethylbenzene	18.61	105	1976115	27.852	ng	99
83) n-Decane	17.06	58	16606	No Calib		
84) Benzyl Chloride	18.76	91	3477770	60.581	ng	99
85) 1,3-Dichlorobenzene	18.78	146	1196507	27.880	ng	99
86) 1,4-Dichlorobenzene	18.87	146	1221762	27.488	ng	100
87) sec-Butylbenzene	18.96	105	2564696	27.404	ng	99
88) 4-Isopropyltoluene (p-...	19.18	119	2283366	27.758	ng	99
89) 1,2,3-Trimethylbenzene	17.34	105	808	No Calib	#	
90) 1,2-Dichlorobenzene	19.30	146	1213247	28.564	ng	100
91) d-Limonene	19.36	68	628470	26.195	ng	97
92) 1,2-Dibromo-3-Chloropr...	19.86	157	964258	59.954	ng	94
93) n-Undecane	18.26	58	115	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	1974162	61.798	ng	100
95) Naphthalene	21.55	128	2597899	33.779	ng	100
96) n-Dodecane	19.17	58	63718	No Calib		
97) Hexachlorobutadiene	21.99	225	684132	27.620	ng	99
98) Cyclohexanone	15.67	55	2442	No Calib		
99) tert-Butylbenzene	18.60	119	1863827	27.982	ng	100
100) n-Butylbenzene	19.72	91	2002288	27.518	ng	99
101) 1,1,1,2-Tetrachloroethane	14.92	131	544704	28.840	ng	100

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

Data File : I:\MS13\DATA\2023_02\22\02222321.D
Acq On : 22 Feb 2023 21:10
Sample : 25ng R13022223 ICV Std.
Misc : S35-01202301/S35-02062302 (3/8)

Vial: 1
Operator: TZ
Inst : MS13

Quant Time: Feb 23 08:08:13 2023

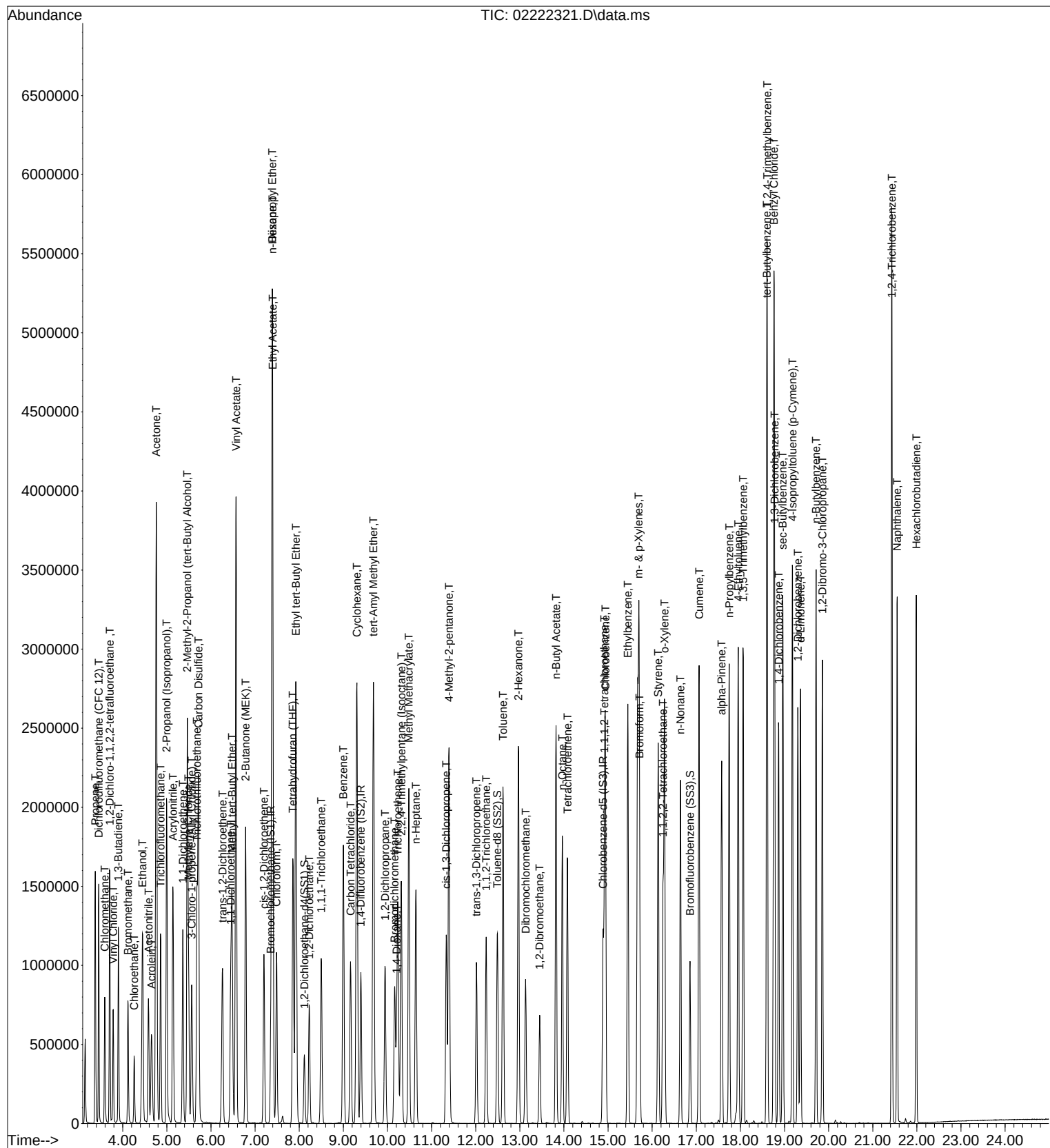
Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_02\22\02222317.D
 Acq On : 22 Feb 2023 18:47
 Sample : 50ng R13022223 ICAL Std.
 Misc : S35-01202301/S35-02162304 (3/18)

Vial: 15
 Operator: TZ
 Inst : MS13

Tz 2/23/23

Quant Time: Feb 23 07:42:16 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:41:41 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.37	130	202839	12.500	ng	0.01
37) 1,4-Difluorobenzene (IS2)	9.40	114	915507	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	14.88	54	157912	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.12	65	337099	12.540	ng	0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	100.32%
57) Toluene-d8 (SS2)	12.49	98	1032687	13.883	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	111.04%
73) Bromofluorobenzene (SS3)	16.86	174	385685	16.355	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	130.88%#

Target Compounds

						Qvalue
2) Propene	3.38	42	927485	37.934	ng	99
3) Dichlorodifluoromethan...	3.46	85	1873343	50.746	ng	100
4) Chloromethane	3.59	50	1272251	34.280	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	3.71	135	943586	53.526	ng	100
6) Vinyl Chloride	3.79	62	1199336	43.630	ng	99
7) 1,3-Butadiene	3.91	54	937568	40.917	ng	99
8) Bromomethane	4.12	94	821384	45.595	ng	99
9) Chloroethane	4.27	64	581863	38.731	ng	100
10) Ethanol	4.46	45	2201107	108.396	ng	99
11) Acetonitrile	4.59	41	1550919	28.890	ng	100
12) Acrolein	4.67	56	1100527	72.617	ng	96
13) Acetone	4.77	58	2796942	178.637	ng	99
14) Trichlorofluoromethane	4.87	101	1683410	52.399	ng	99
15) 2-Propanol (Isopropanol)	5.00	45	4571231	66.916	ng	99
16) Acrylonitrile	5.15	53	2261780	74.661	ng	100
17) 1,1-Dichloroethene	5.37	96	906240	48.908	ng	99
18) 2-Methyl-2-Propanol (t...	5.47	59	4906479	92.778	ng	100
19) Methylene Chloride	5.50	84	894897	43.438	ng	99
20) 3-Chloro-1-propene (Al...	5.57	41	1437913	37.937	ng	100
21) Trichlorotrifluoroethane	5.69	151	922168	56.342	ng	99
22) Carbon Disulfide	5.72	76	6700529	80.309	ng	100
23) trans-1,2-Dichloroethene	6.27	61	1419725	45.929	ng	100
24) 1,1-Dichloroethane	6.46	63	1629941	43.449	ng	100
25) Methyl tert-Butyl Ether	6.48	73	2906070	49.038	ng	100
26) Vinyl Acetate	6.58	86	467527	128.136	ng	97
27) 2-Butanone (MEK)	6.80	72	1120443	83.511	ng	100
28) cis-1,2-Dichloroethene	7.21	61	1330732	44.729	ng	100
29) Diisopropyl Ether	7.39	87	1257882	86.927	ng	98
30) Ethyl Acetate	7.41	61	1330890	148.327	ng	99
31) n-Hexane	7.39	57	1217225	35.643	ng	100
32) Chloroform	7.50	83	1679433	49.309	ng	100
34) Tetrahydrofuran (THF)	7.86	72	1063693	79.426	ng	99
35) Ethyl tert-Butyl Ether	7.93	87	2126761	97.710	ng	100
36) 1,2-Dichloroethane	8.24	62	1332121	51.667	ng	100
38) 1,1,1-Trichloroethane	8.50	97	1523378	53.336	ng	100
39) Isopropyl Acetate	9.40	61	25619	No Calib		
40) 1-Butanol	8.89	56	48921	No Calib		
41) Benzene	9.01	78	3587019	45.296	ng	100
42) Carbon Tetrachloride	9.17	117	1363000	55.656	ng	99
43) Cyclohexane	9.31	84	2540044	87.379	ng	100
44) tert-Amyl Methyl Ether	9.69	73	5264315	93.765	ng	100
45) 1,2-Dichloropropane	9.95	63	878038	38.988	ng	100
46) Bromodichloromethane	10.17	83	1360023	50.721	ng	100
47) Trichloroethene	10.24	130	1057693	52.066	ng	100
48) 1,4-Dioxane	10.21	88	741182	46.378	ng	100
49) 2,2,4-Trimethylpentane...	10.32	57	3572956	39.310	ng	100
50) Methyl Methacrylate	10.49	100	765478	106.462	ng	100

Data File : I:\MS13\DATA\2023_02\22\02222317.D
 Acq On : 22 Feb 2023 18:47
 Sample : 50ng R13022223 ICAL Std.
 Misc : S35-01202301/S35-02162304 (3/18)

Vial: 15
 Operator: TZ
 Inst : MS13

Quant Time: Feb 23 07:42:16 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:41:41 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.65	71	858735	42.408	ng	99
52) cis-1,3-Dichloropropene	11.34	75	1552003	49.070	ng	100
53) 4-Methyl-2-pentanone	11.40	58	1575341	82.283	ng	99
54) trans-1,3-Dichloropropene	12.02	75	1460655	49.756	ng	100
55) 1,1,2-Trichloroethane	12.24	97	929948	48.328	ng	100
58) Toluene	12.62	91	3790355	53.701	ng	100
59) 2-Hexanone	12.98	43	3819365	89.338	ng	100
60) Dibromochloromethane	13.14	129	1250681	65.728	ng	100
61) 1,2-Dibromoethane	13.46	107	1126619	58.215	ng	99
62) n-Butyl Acetate	13.83	43	4185706	84.605	ng	100
63) n-Octane	13.97	57	754207	45.765	ng	100
64) Tetrachloroethene	14.08	166	1209479	63.768	ng	99
65) Chlorobenzene	14.95	112	2566110	56.631	ng	100
66) Ethylbenzene	15.45	91	4381745	55.119	ng	100
67) m- & p-Xylenes	15.70	91	7012827	114.624	ng	100
68) Bromoform	15.72	173	1143390	71.935	ng	100
69) Styrene	16.14	104	2740162	63.042	ng	100
70) o-Xylene	16.28	91	3541110	57.426	ng	100
71) n-Nonane	16.64	43	1701154	41.459	ng	99
72) 1,1,2,2-Tetrachloroethane	16.25	83	1607035	51.786	ng	100
74) Cumene	17.06	105	4430122	59.407	ng	100
75) alpha-Pinene	17.58	93	2096214	59.137	ng	100
76) n-Propylbenzene	17.75	91	5293743	57.780	ng	100
77) 3-Ethyltoluene	17.35	105	1660	No Calib	#	
78) 4-Ethyltoluene	17.95	105	4383711	63.164	ng	100
79) 1,3,5-Trimethylbenzene	18.07	105	3728630	62.995	ng	100
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.35	105	1660	No Calib	#	
82) 1,2,4-Trimethylbenzene	18.61	105	3623017	61.380	ng	100
83) n-Decane	17.06	58	32558	No Calib		
84) Benzyl Chloride	18.77	91	6336466	130.744	ng	100
85) 1,3-Dichlorobenzene	18.78	146	2169730	64.974	ng	100
86) 1,4-Dichlorobenzene	18.87	146	2281884	67.131	ng	100
87) sec-Butylbenzene	18.96	105	4861966	59.899	ng	100
88) 4-Isopropyltoluene (p-...	19.18	119	4332091	65.036	ng	99
89) 1,2,3-Trimethylbenzene	17.35	105	1660	No Calib	#	
90) 1,2-Dichlorobenzene	19.31	146	2235912	67.190	ng	100
91) d-Limonene	19.36	68	1332757	57.719	ng	99
92) 1,2-Dibromo-3-Chloropr...	19.86	157	1772203	149.347	ng	99
93) n-Undecane	18.25	58	794	No Calib		
94) 1,2,4-Trichlorobenzene	21.43	180	3501327	165.832	ng	100
95) Naphthalene	21.55	128	4754492	81.917	ng	100
96) n-Dodecane	19.18	58	129792	No Calib	#	
97) Hexachlorobutadiene	21.99	225	1213959	78.639	ng	100
98) Cyclohexanone	15.70	55	2831	No Calib	#	
99) tert-Butylbenzene	18.61	119	3281022	59.427	ng	99
100) n-Butylbenzene	19.72	91	3859077	61.601	ng	100
101) 1,1,1,2-Tetrachloroethane	14.92	131	1000959	63.312	ng	100

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

Vial: 15
Operator: TZ
Inst : MS13

Quant Time: Feb 23 07:42:16 2023

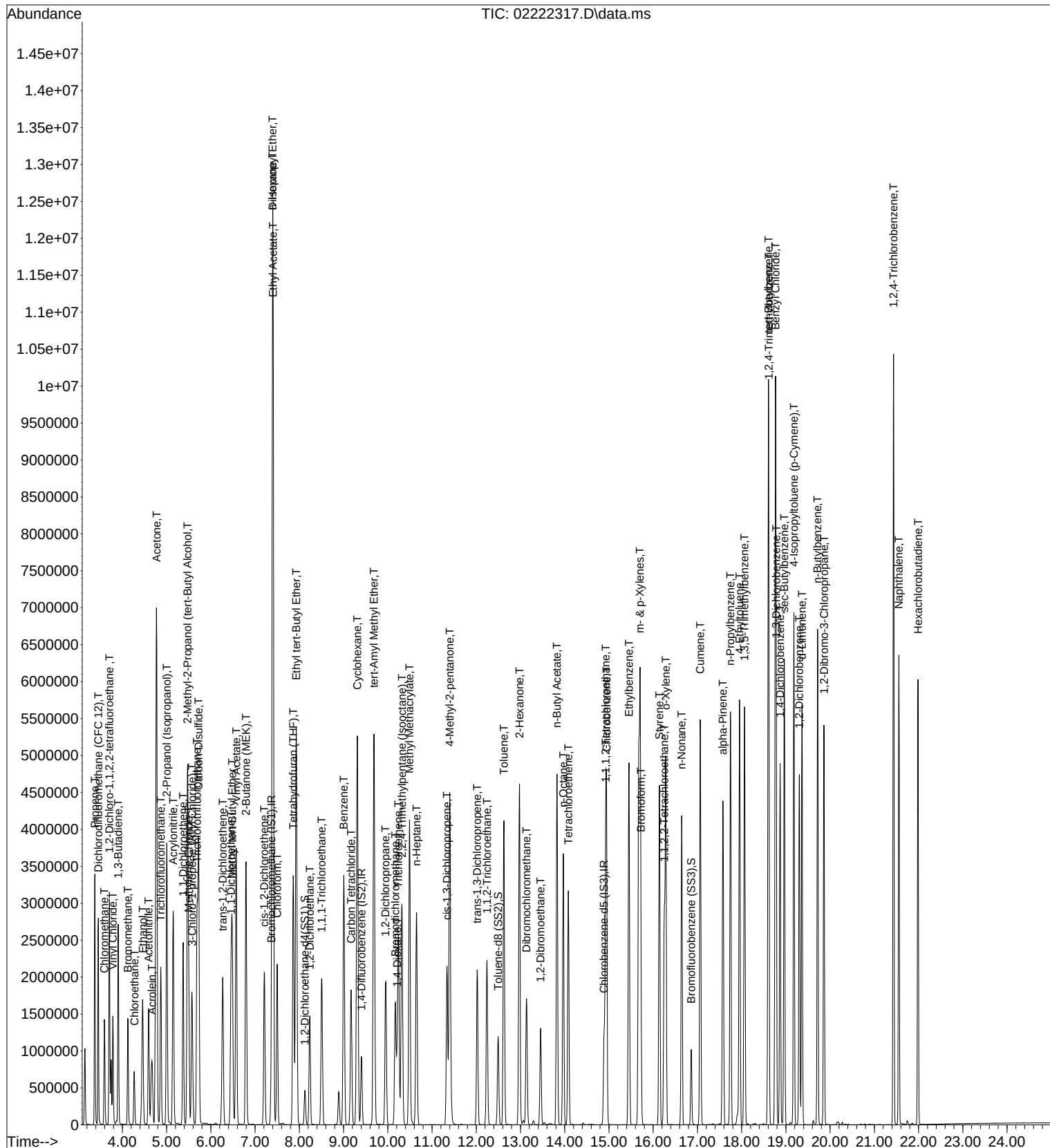
Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA T0-15 per SOP V0A-T015 (CASS T0-15/GC-MS)

QLast Update : Thu Feb 23 07:41:41 2023

Response via : Initial Calibration

DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_02\22\02222318.D
 Acq On : 22 Feb 2023 19:23
 Sample : 100ng R13022223 ICAL Std.
 Misc : S35-01202301/S35-02162304 (3/18)

Vial: 15
 Operator: TZ
 Inst : MS13

TZ 2/23/23

Quant Time: Feb 23 07:42:18 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:41:41 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.38	130	203449	12.500	ng	0.02
37) 1,4-Difluorobenzene (IS2)	9.42	114	981984	12.500	ng	0.02
56) Chlorobenzene-d5 (IS3)	14.89	54	164417	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.13	65	351595	13.040	ng	0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	104.32%
57) Toluene-d8 (SS2)	12.50	98	1090579	14.082	ng	0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	112.64%
73) Bromofluorobenzene (SS3)	16.86	174	410261	16.709	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	133.68%#

Target Compounds

						Qvalue
2) Propene	3.38	42	2050902	83.631	ng	99
3) Dichlorodifluoromethan...	3.46	85	3686554	99.564	ng	100
4) Chloromethane	3.59	50	1953251	52.472	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	3.71	135	1868758	105.689	ng	100
6) Vinyl Chloride	3.79	62	2278913	82.655	ng	100
7) 1,3-Butadiene	3.91	54	1797910	78.228	ng	99
8) Bromomethane	4.13	94	1630875	90.259	ng	100
9) Chloroethane	4.27	64	1152978	76.516	ng	100
10) Ethanol	4.48	45	4238011	208.080	ng	99
11) Acetonitrile	4.61	41	3099150	57.558	ng	100
12) Acrolein	4.68	56	2169553	142.727	ng	95
13) Acetone	4.78	58	5239404	333.631	ng	99
14) Trichlorofluoromethane	4.87	101	3361852	104.330	ng	100
15) 2-Propanol (Isopropanol)	5.02	45	7888393	115.127	ng	99
16) Acrylonitrile	5.16	53	4448590	146.408	ng	100
17) 1,1-Dichloroethene	5.38	96	1804813	97.110	ng	99
18) 2-Methyl-2-Propanol (t...	5.49	59	9461558	178.375	ng	100
19) Methylene Chloride	5.51	84	1698315	82.188	ng	99
20) 3-Chloro-1-propene (Al...	5.58	41	2864159	75.340	ng	98
21) Trichlorotrifluoroethane	5.69	151	1853843	112.926	ng	99
22) Carbon Disulfide	5.73	76	12953405	154.786	ng	99
23) trans-1,2-Dichloroethene	6.27	61	2866639	92.459	ng	100
24) 1,1-Dichloroethane	6.46	63	3228509	85.804	ng	100
25) Methyl tert-Butyl Ether	6.49	73	5798693	97.555	ng	99
26) Vinyl Acetate	6.59	86	919818	251.340	ng	# 92
27) 2-Butanone (MEK)	6.81	72	2216161	164.684	ng	97
28) cis-1,2-Dichloroethene	7.22	61	2676784	89.703	ng	99
29) Diisopropyl Ether	7.40	87	2335493	160.912	ng	# 96
30) Ethyl Acetate	7.42	61	2464259	273.816	ng	99
31) n-Hexane	7.40	57	2252139	65.749	ng	100
32) Chloroform	7.51	83	3388436	99.189	ng	100
34) Tetrahydrofuran (THF)	7.87	72	2098824	156.250	ng	98
35) Ethyl tert-Butyl Ether	7.94	87	4174148	191.199	ng	98
36) 1,2-Dichloroethane	8.24	62	2701152	104.452	ng	99
38) 1,1,1-Trichloroethane	8.52	97	3086599	100.751	ng	99
39) Isopropyl Acetate	9.42	61	26811	No Calib		
40) 1-Butanol	8.90	56	101282	No Calib		
41) Benzene	9.02	78	7151518	84.194	ng	100
42) Carbon Tetrachloride	9.18	117	2777464	105.737	ng	99
43) Cyclohexane	9.32	84	4955772	158.941	ng	99
44) tert-Amyl Methyl Ether	9.69	73	10324756	171.449	ng	100
45) 1,2-Dichloropropane	9.96	63	1771826	73.349	ng	100
46) Bromodichloromethane	10.18	83	2755873	95.821	ng	100
47) Trichloroethene	10.25	130	2120130	97.300	ng	100
48) 1,4-Dioxane	10.22	88	1485748	86.675	ng	98
49) 2,2,4-Trimethylpentane...	10.33	57	7245157	74.316	ng	100
50) Methyl Methacrylate	10.50	100	1515038	196.446	ng	99

Data File : I:\MS13\DATA\2023_02\22\02222318.D
 Acq On : 22 Feb 2023 19:23
 Sample : 100ng R13022223 ICAL Std.
 Misc : S35-01202301/S35-02162304 (3/18)

Vial: 15
 Operator: TZ
 Inst : MS13

Quant Time: Feb 23 07:42:18 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:41:41 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.66	71	1718167	79.107	ng	99
52) cis-1,3-Dichloropropene	11.34	75	3136459	92.453	ng	100
53) 4-Methyl-2-pentanone	11.41	58	3058808	148.952	ng	98
54) trans-1,3-Dichloropropene	12.03	75	2959407	93.985	ng	99
55) 1,1,2-Trichloroethane	12.25	97	1872929	90.744	ng	99
58) Toluene	12.63	91	7543896	102.651	ng	100
59) 2-Hexanone	12.99	43	7370179	165.573	ng	100
60) Dibromochloromethane	13.14	129	2562678	129.350	ng	100
61) 1,2-Dibromoethane	13.46	107	2285535	113.426	ng	100
62) n-Butyl Acetate	13.84	43	8007110	155.443	ng	99
63) n-Octane	13.97	57	1464759	85.365	ng	98
64) Tetrachloroethene	14.09	166	2446286	123.873	ng	99
65) Chlorobenzene	14.95	112	5052211	107.084	ng	100
66) Ethylbenzene	15.46	91	8664642	104.683	ng	100
67) m- & p-Xylenes	15.70	91	13596605	213.443	ng	100
68) Bromoform	15.73	173	2261760	136.666	ng	100
69) Styrene	16.15	104	5452714	120.486	ng	99
70) o-Xylene	16.29	91	6978242	108.689	ng	100
71) n-Nonane	16.65	43	3293425	77.088	ng	98
72) 1,1,2,2-Tetrachloroethane	16.26	83	3177840	98.352	ng	100
74) Cumene	17.07	105	8694138	111.974	ng	100
75) alpha-Pinene	17.58	93	4162593	112.786	ng	100
76) n-Propylbenzene	17.75	91	10329761	108.287	ng	99
77) 3-Ethyltoluene	17.35	105	1988	No Calib	#	
78) 4-Ethyltoluene	17.96	105	8658799	119.826	ng	100
79) 1,3,5-Trimethylbenzene	18.07	105	7396937	120.027	ng	100
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.35	105	1988	No Calib	#	
82) 1,2,4-Trimethylbenzene	18.62	105	6913004	112.485	ng	99
83) n-Decane	17.06	58	62021	No Calib		
84) Benzyl Chloride	18.77	91	11890817	235.643	ng	100
85) 1,3-Dichlorobenzene	18.79	146	4091346	117.671	ng	100
86) 1,4-Dichlorobenzene	18.87	146	4557404	128.770	ng	100
87) sec-Butylbenzene	18.97	105	9480932	112.184	ng	100
88) 4-Isopropyltoluene (p-...	19.19	119	8435853	121.634	ng	100
89) 1,2,3-Trimethylbenzene	17.35	105	1988	No Calib	#	
90) 1,2-Dichlorobenzene	19.31	146	4457027	128.636	ng	100
91) d-Limonene	19.37	68	2579957	107.312	ng	97
92) 1,2-Dibromo-3-Chloropr...	19.86	157	3446254	278.932	ng	99
93) n-Undecane	18.26	58	1368	No Calib		
94) 1,2,4-Trichlorobenzene	21.44	180	6572813	298.989	ng	100
95) Naphthalene	21.56	128	9346593	154.665	ng	100
96) n-Dodecane	19.18	58	229729	No Calib	#	
97) Hexachlorobutadiene	21.99	225	2355455	146.548	ng	100
98) Cyclohexanone	15.71	55	8903	No Calib		
99) tert-Butylbenzene	18.61	119	6212299	108.067	ng	99
100) n-Butylbenzene	19.72	91	7466214	114.466	ng	100
101) 1,1,1,2-Tetrachloroethane	14.93	131	1995252	121.210	ng	100

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

Vial: 15
Operator: TZ
Inst : MS13

Quant Time: Feb 23 07:42:18 2023

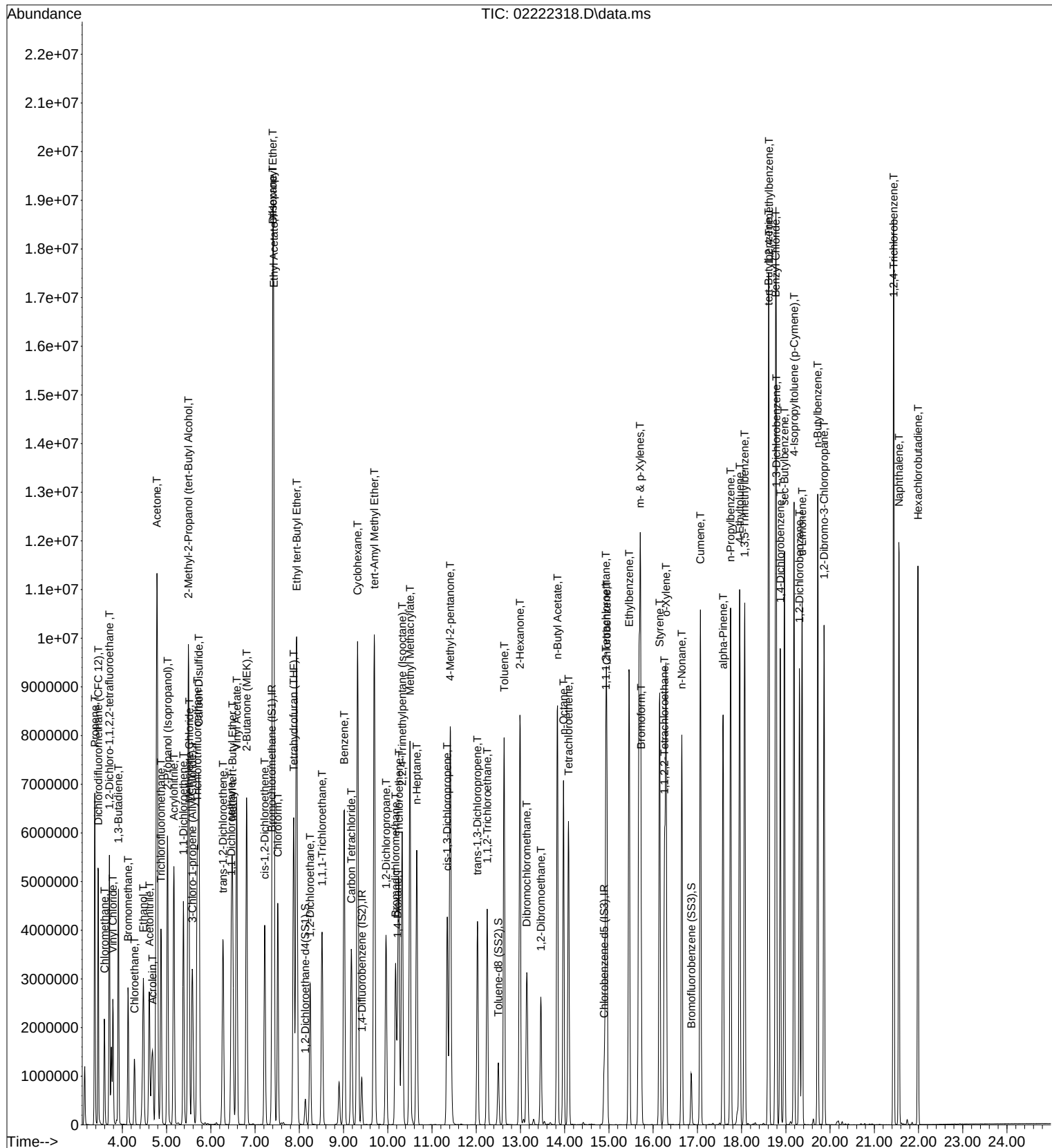
Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA T0-15 per SOP V0A-T015 (CASS T0-15/GC-MS)

QLast Update : Thu Feb 23 07:41:41 2023

Response via : Initial Calibration

DataAcq Meth:T015.M



ALS Environmental

LCS Acceptance Criteria

TE 2/23/23

25ng R13022223 ICV Std.

	RT
Bromochloromethane (IS1)	7.35
1,4-Difluorobenzene (IS2)	9.40
Chlorobenzene-d5 (IS3)	14.88

Datafile: 02222321.D
Instrument: MS-13
Date: 2/22/2023

CAS No	Analyte	Amount	Spike	%	ALS		70-130		DOD	
		Found	Amount	REC	LCS Limits	Pass/Fail	LCS Limits	Pass/Fail	LCS Limits	Pass/Fail
115-07-1	Propene	20.888	26.5	79	56-128	ok	70-130	ok	57-136	ok
75-71-8	Dichlorodifluoromethane	24.444	26.5	92	71-112	ok	70-130	ok	59-128	ok
74-87-3	Chloromethane	23.490	26.3	89	53-126	ok	70-130	ok	59-132	ok
76-14-2	Freon 114	25.557	26.8	95	62-121	ok	70-130	ok	63-121	ok
75-01-4	Vinyl Chloride	22.375	26.3	85	63-123	ok	70-130	ok	64-127	ok
106-99-0	1,3-Butadiene	20.700	26.3	79	63-135	ok	70-130	ok	66-134	ok
74-83-9	Bromomethane	24.533	26.3	93	71-112	ok	70-130	ok	63-134	ok
75-00-3	Chloroethane	23.621	26.5	89	66-117	ok	70-130	ok	63-127	ok
64-17-5	Ethanol	106.126	138	77	57-117	ok	70-130	ok	59-125	ok
75-05-8	Acetonitrile	19.054	26.8	71	59-131	ok	70-130	ok	63-132	ok
107-02-8	Acrolein	48.774	55.0	89	71-123	ok	70-130	ok	62-126	ok
67-64-1	Acetone	109.894	133	83	60-117	ok	70-130	ok	58-128	ok
75-69-4	Trichlorofluoromethane	24.075	26.3	92	71-114	ok	70-130	ok	62-126	ok
67-63-0	Isopropanol	44.812	51.8	87	61-124	ok	70-130	ok	52-125	ok
107-13-1	Acrylonitrile	45.364	52.3	87	65-130	ok	70-130	ok	71-137	ok
75-35-4	1,1-Dichloroethene	25.249	25.5	99	74-114	ok	70-130	ok	61-133	ok
75-65-0	tert-Butanol	47.957	51.0	94	56-135	ok	70-130	ok	24-150	ok
75-09-2	Methylene Chloride	24.107	25.5	95	75-112	ok	70-130	ok	62-115	ok
107-05-1	Allyl Chloride	20.459	26.5	77	57-127	ok	70-130	ok	71-131	ok
76-13-1	Trichlorotrifluoroethane	25.875	26.3	98	73-114	ok	70-130	ok	66-126	ok
75-15-0	Carbon Disulfide	45.336	53.8	84	70-113	ok	70-130	ok	57-134	ok
156-60-5	trans-1,2-Dichloroethene	25.189	27.0	93	76-119	ok	70-130	ok	67-124	ok
75-34-3	1,1-Dichloroethane	23.911	27.0	89	70-114	ok	70-130	ok	68-126	ok
1634-04-4	Methyl tert-Butyl Ether	24.802	27.0	92	72-118	ok	70-130	ok	66-126	ok
108-05-4	Vinyl Acetate	144.176	138	104	56-137	ok	70-130	ok	56-139	ok
78-93-3	2-Butanone	49.125	51.8	95	74-121	ok	70-130	ok	67-130	ok
156-59-2	cis-1,2-Dichloroethene	23.738	26.8	89	73-117	ok	70-130	ok	70-121	ok
108-20-3	Diisopropyl Ether	48.321	53.3	91	58-124	ok	70-130	ok	70-117	ok
141-78-6	Ethyl Acetate	40.456	49.8	81	59-161	ok	70-130	ok	65-128	ok
110-54-3	n-Hexane	22.920	26.5	86	55-130	ok	70-130	ok	63-120	ok
67-66-3	Chloroform	24.359	27.0	90	71-114	ok	70-130	ok	68-123	ok
109-99-9	Tetrahydrofuran	44.269	50.3	88	73-114	ok	70-130	ok	64-123	ok
637-92-3	Ethyl tert-Butyl Ether	50.300	53.3	94	76-119	ok	70-130	ok	61-130	ok
107-06-2	1,2-Dichloroethane	25.358	25.5	99	71-119	ok	70-130	ok	65-128	ok
71-55-6	1,1,1-Trichloroethane	25.049	26.3	95	73-119	ok	70-130	ok	68-125	ok
108-21-4	Isopropyl Acetate	0.000	#N/A	#N/A	0	#N/A	70-130	#N/A	65-129	#N/A
71-36-3	1-Butanol	0.000	#N/A	#N/A	0	#N/A	70-130	#N/A	62-133	#N/A
71-43-2	Benzene	24.890	25.5	98	72-113	ok	70-130	ok	69-119	ok
56-23-5	Carbon Tetrachloride	26.911	26.3	102	67-123	ok	70-130	ok	68-132	ok
110-82-7	Cyclohexane	49.300	53.3	92	70-119	ok	70-130	ok	70-117	ok
994-05-8	tert-Amyl Methyl Ether	50.809	53.3	95	74-120	ok	70-130	ok	62-133	ok
78-87-5	1,2-Dichloropropane	24.030	26.8	90	70-118	ok	70-130	ok	69-123	ok
75-27-4	Bromodichloromethane	25.422	27.0	94	74-119	ok	70-130	ok	72-128	ok
79-01-6	Trichloroethene	26.052	26.5	98	74-115	ok	70-130	ok	71-123	ok
123-91-1	1,4-Dioxane	26.494	26.5	100	77-124	ok	70-130	ok	71-122	ok
540-84-1	Isooctane	23.779	26.8	89	65-120	ok	70-130	ok	68-121	ok
80-62-6	Methyl Methacrylate	52.744	53.5	99	78-126	ok	70-130	ok	70-128	ok
142-82-5	n-Heptane	24.814	26.8	93	70-119	ok	70-130	ok	69-123	ok
10061-01-5	cis-1,3-Dichloropropene	28.386	26.5	107	81-126	ok	70-130	ok	70-128	ok
108-10-1	4-Methyl-2-pentanone	50.493	53.3	95	73-129	ok	70-130	ok	67-130	ok

ALS Environmental

LCS Acceptance Criteria

25ng R13022223 ICV Std.

	RT
Bromochloromethane (IS1)	7.35
1,4-Difluorobenzene (IS2)	9.40
Chlorobenzene-d5 (IS3)	14.88

Datafile: 02222321.D
Instrument: MS-13
Date: 2/22/2023

CAS No	Analyte	Amount	Spike	%	ALS		70-130		DOD	
		Found	Amount	REC	LCS Limits	Pass/Fail	LCS Limits	Pass/Fail	LCS Limits	Pass/Fail
10061-02-6	trans-1,3-Dichloropropene	23.812	24.5	97	80-127	ok	70-130	ok	75-133	ok
79-00-5	1,1,2-Trichloroethane	25.293	27.0	94	78-117	ok	70-130	ok	73-119	ok
108-88-3	Toluene	26.587	26.8	99	70-118	ok	70-130	ok	66-119	ok
591-78-6	2-Hexanone	52.392	53.3	98	74-132	ok	70-130	ok	62-128	ok
124-48-1	Dibromochloromethane	29.314	26.8	109	69-137	ok	70-130	ok	70-130	ok
106-93-4	1,2-Dibromoethane	27.667	25.5	108	76-128	ok	70-130	ok	74-122	ok
123-86-4	Butyl Acetate	51.360	53.0	97	75-134	ok	70-130	ok	65-134	ok
111-65-9	n-Octane	25.605	26.5	97	68-120	ok	70-130	ok	69-121	ok
127-18-4	Tetrachloroethene	28.752	26.8	107	63-130	ok	70-130	ok	66-124	ok
108-90-7	Chlorobenzene	27.753	27.0	103	70-118	ok	70-130	ok	70-119	ok
100-41-4	Ethylbenzene	25.727	27.3	94	71-123	ok	70-130	ok	70-124	ok
179601-23-1	m- & p-Xylene	51.605	53.8	96	67-127	ok	70-130	ok	61-134	ok
75-25-2	Bromoform	31.426	27.3	115	65-149	ok	70-130	ok	66-139	ok
100-42-5	Styrene	28.607	26.8	107	76-132	ok	70-130	ok	73-127	ok
95-47-6	o-Xylene	26.823	27.0	99	69-124	ok	70-130	ok	67-125	ok
111-84-2	n-Nonane	25.231	26.8	94	64-127	ok	70-130	ok	63-128	ok
79-34-5	1,1,2,2-Tetrachloroethane	28.247	27.0	105	69-128	ok	70-130	ok	65-127	ok
98-82-8	Cumene	27.487	26.5	104	69-125	ok	70-130	ok	68-124	ok
80-56-8	alpha-Pinene	28.770	27.0	107	68-129	ok	70-130	ok	62-136	ok
103-65-1	n-Propylbenzene	27.092	26.5	102	70-127	ok	70-130	ok	69-123	ok
620-14-4	3-Ethyltoluene	0.000	#N/A	#N/A	0	#N/A	70-130	#N/A	62-123	#N/A
622-96-8	4-Ethyltoluene	28.574	27.3	105	69-127	ok	70-130	ok	67-129	ok
108-67-8	1,3,5-Trimethylbenzene	27.966	27.0	104	66-129	ok	70-130	ok	67-130	ok
98-83-9	alpha-Methylstyrene	0.000	#N/A	#N/A	0	#N/A	70-130	#N/A	67-128	#N/A
611-14-3	2-Ethyltoluene	0.000	#N/A	#N/A	0	#N/A	70-130	#N/A	66-121	#N/A
95-63-6	1,2,4-Trimethylbenzene	27.852	26.5	105	63-142	ok	70-130	ok	66-132	ok
124-18-5	n-Decane	0.000	#N/A	#N/A	0	#N/A	70-130	#N/A	70-118	#N/A
100-44-7	Benzyl Chloride	60.581	53.5	113	73-145	ok	70-130	ok	50-147	ok
541-73-1	1,3-Dichlorobenzene	27.880	26.8	104	67-136	ok	70-130	ok	65-130	ok
106-46-7	1,4-Dichlorobenzene	27.488	26.8	103	63-134	ok	70-130	ok	60-131	ok
135-98-8	sec-Butylbenzene	27.404	26.3	104	68-130	ok	70-130	ok	68-125	ok
99-87-6	p-Isopropyltoluene	27.758	26.3	106	60-139	ok	70-130	ok	67-130	ok
526-73-8	1,2,3-Trimethylbenzene	0.000	#N/A	#N/A	0	#N/A	70-130	#N/A	60-134	#N/A
95-50-1	1,2-Dichlorobenzene	28.564	26.5	108	64-139	ok	70-130	ok	63-129	ok
5989-27-5	d-Limonene	26.195	26.0	101	63-137	ok	70-130	ok	65-136	ok
96-12-8	1,2-Dibromo-3-Chloropropane	59.954	52.0	115	72-145	ok	70-130	ok	73-133	ok
1120-21-4	n-Undecane	0.000	#N/A	#N/A	0	#N/A	70-130	#N/A	69-123	#N/A
120-82-1	1,2,4-Trichlorobenzene	61.798	55.0	112	62-154	ok	70-130	ok	55-142	ok
91-20-3	Naphthalene	33.779	27.5	123	62-156	ok	70-130	ok	57-138	ok
112-40-3	n-Dodecane	0.000	#N/A	#N/A	0	#N/A	70-130	#N/A	62-147	#N/A
87-68-3	Hexachloro-1,3-butadiene	27.620	27.3	101	55-142	ok	70-130	ok	56-138	ok
108-94-1	Cyclohexanone	0.000	#N/A	#N/A	0	#N/A	70-130	#N/A	61-132	#N/A
98-06-6	tert-Butylbenzene	27.982	26.5	106	61-140	ok	70-130	ok	65-124	ok
104-51-8	n-Butylbenzene	27.518	26.0	106	70-131	ok	70-130	ok	66-130	ok

Method Path : I:\MS13\METHODS\
Method File : C13022823.M
Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
Last Update : Wed Mar 01 07:58:55 2023
Response Via : Initial Calibration

Tr 3/1/23

Calibration Files

0.40=02282326.D 1.0 =02282327.D 2.5 =02282328.D 5.0 =02282329.D 25 =02282330.D 50 =02282331.D 100 =02282332.D

Compound	0.40	1.0	2.5	5.0	25	50	100	Avg	%RSD

1) IR Bromochloromethane...	-----ISTD-----								
2) T Chloropentaflu...	1.362	1.354	1.333	1.313	1.349	1.272	1.214	1.314	4.10
3) T 1,1,1,2-Tetraflu...	1.082	0.998	1.009	0.989	1.057	0.999	0.925	1.009	5.00
4) T 1,1-Difluoroeth...	0.914	0.887	0.881	0.856	0.908	0.841	0.715	0.857	7.94
5) T Chlorodifluoro...	0.306	0.294	0.303	0.302	0.330	0.305	0.295	0.305	3.91
6) T 1-Chloro-1,1-D...	2.069	2.065	2.019	2.014	2.086	1.979	1.942	2.025	2.58
7) T Dichlorofluoro...	2.196	2.125	2.141	2.097	2.166	2.051	2.010	2.112	3.08
8) T Vinylbromide	0.944	0.961	1.005	0.974	1.011	0.957	0.943	0.971	2.82
9) T 2,2-Dichloro-1...	1.500	1.496	1.502	1.453	1.506	1.426	1.386	1.467	3.20
10) T 2-Methylbutane	0.983	0.912	0.945	0.923	0.932	0.869	0.835	0.914	5.37
11) T Methyl Acetate	2.086	2.079	2.052	2.038	2.146	2.033	1.988	2.060	2.42
12) T 2-Methylpentane	0.916	0.890	0.896	0.861	0.893	0.846	0.813	0.873	4.06
13) T 2,2-Dichloropr...	1.706	1.731	1.720	1.691	1.766	1.689	1.656	1.708	2.07
14) T 1,1-Dichloropr...	1.405	1.420	1.432	1.398	1.457	1.392	1.363	1.409	2.15
15) T Thiophene	2.245	2.165	2.173	2.182	2.255	2.147	2.087	2.179	2.63

16) IR 1,4-Difluorobenzen...	-----ISTD-----								
17) T 2,3-Dimethylpe...	0.397	0.366	0.368	0.366	0.380	0.360	0.341	0.368	4.61
18) T Dibromomethane	0.225	0.222	0.224	0.222	0.228	0.219	0.213	0.222	2.16

19) IR Chlorobenzene-d5 (...)	-----ISTD-----								
20) T Methyl Cyclohe...	2.181	2.113	2.110	2.065	2.097	2.041	1.960	2.081	3.32
21) T 1,3-Dichloropr...	2.301	2.239	2.261	2.160	2.262	2.193	2.126	2.220	2.83
22) T 1,1,1,2-Tetrac...	1.595	1.582	1.636	1.608	1.674	1.636	1.572	1.615	2.24
23) T 1-Chlorohexane	2.120	2.192	2.244	2.203	2.274	2.193	2.098	2.189	2.87
24) T 1,2,3-Trichlor...	2.320	2.364	2.419	2.356	2.346	2.290	2.207	2.329	2.88
25) T Bromobenzene	2.777	2.739	2.785	2.725	2.837	2.777	2.685	2.761	1.77
26) T 2-Chlorotoluene	5.046	4.889	5.076	4.959	5.164	5.019	4.810	4.995	2.38
27) T 4-Chlorotoluene	5.229	5.298	5.341	5.305	5.503	5.357	5.174	5.315	1.97
28) T Indane	6.080	6.195	6.412	6.359	6.601	6.395	6.015	6.294	3.28
29) T Indene	4.684	5.062	5.449	5.581	6.021	5.912	5.610	5.474	8.56
30) T 1,2,4,5-Tetram...	5.588	5.974	6.336	6.524	6.696	6.708	6.136	6.280	6.54
31) T 1,2,3,4-Tetram...	6.250	6.372	6.583	6.594	6.663	6.687	5.970	6.446	4.09
32) T 1,2,3,5-Tetram...	5.303	5.985	6.163	6.397	6.309	6.529	5.788	6.068	6.92
33) T 1,2,3-Trichlor...	2.300	2.480	2.711	2.914	2.732	2.984	2.700	2.689	8.78

(#) = Out of Range									

Std#:

Working Standards

(1) 200 ng/L Working Std. ID:

S35-02282306

(2) 20 ng/L Working Std. ID:

S35-02282308

Injection Amts.(L):	0.020	0.050	0.125	0.250	0.125	0.250	0.500
Standards Used:	(2)	(2)	(2)	(2)	(1)	(1)	(1)
Compounds/ Concentrations (ng):	0.4ng	1.0ng	2.5ng	5.0ng	25ng	50ng	100ng
Vinyl bromide	0.400	1.000	2.500	5.00	25.00	50.0	100
2-Methylbutane (Isopentane)	0.408	1.020	2.550	5.10	25.50	51.0	102
2-Methylpentane	0.400	1.000	2.500	5.00	25.00	50.0	100
2,2-Dichloropropane	0.396	0.990	2.475	4.95	24.75	49.5	99
1,1-Dichloropropene	0.416	1.040	2.600	5.20	26.00	52.0	104
Thiophene	0.404	1.010	2.525	5.05	25.25	50.5	101
2,3-Dimethylpentane	0.416	1.040	2.600	5.20	26.00	52.0	104
Dibromomethane	0.432	1.080	2.700	5.40	27.00	54.0	108
1,3-Dichloropropane	0.420	1.050	2.625	5.25	26.25	52.5	105
1,1,1,2-Tetrachloroethane	0.352	0.880	2.200	4.40	22.00	44.0	88
1-Chlorohexane	0.412	1.030	2.575	5.15	25.75	51.5	103
1,2,3-Trichloropropane	0.420	1.050	2.625	5.25	26.25	52.5	105
Bromobenzene	0.420	1.050	2.625	5.25	26.25	52.5	105
2-Chlorotoluene	0.424	1.060	2.650	5.30	26.50	53.0	106
4-Chlorotoluene	0.404	1.010	2.525	5.05	25.25	50.5	101
Indane	0.392	0.980	2.450	4.90	24.50	49.0	98
Indene	0.372	0.930	2.325	4.65	23.25	46.5	93
1,2,4,5-Tetramethylbenzene	0.400	1.000	2.500	5.00	25.00	50.0	100
1,2,3,4-Tetramethylbenzene	0.404	1.010	2.525	5.05	25.25	50.5	101
1,2,3,5-Tetramethylbenzene	0.396	0.990	2.475	4.95	24.75	49.5	99
1,2,3-Trichlorobenzene	0.400	1.000	2.500	5.00	25.00	50.0	100
Chloropentafluoroethane (R115)	0.416	1.040	2.600	5.20	26.00	52.0	104
2,2-Dichloro-1,1,1-trifluoroethane (R123)	0.420	1.050	2.625	5.25	26.25	52.5	105
1,1-Difluoroethane (R152a)	0.424	1.060	2.650	5.30	26.50	53.0	106
Chlorodifluoromethane (R22)	0.424	1.060	2.650	5.30	26.50	53.0	106
Dichlorofluoromethane (R21)	0.404	1.010	2.525	5.05	25.25	50.5	101
1,1,1,2-Tetrafluoroethane (R134a)	0.408	1.020	2.550	5.10	25.50	51.0	102
1-Chloro-1,1-Difluoroethane	0.416	1.040	2.600	5.20	26.00	52.0	104
Methyl Acetate	0.388	0.970	2.425	4.85	24.25	48.5	97
Methylcyclohexane	0.428	1.070	2.675	5.35	26.75	53.5	107
Chlorotrifluoroethene	0.408	1.020	2.550	5.10	25.50	51.0	102

Method : I:\MS13\METHODS\C13022823.M (RTE Integrator)
 Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 Last Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration

T₂ 3/1/23

#	ID	Conc	ISTD Conc	Path\File
1	0.40	0	13	I:\MS13\DATA\2023_02\28\02282326.D
2	1.0	1	13	I:\MS13\DATA\2023_02\28\02282327.D
3	2.5	3	13	I:\MS13\DATA\2023_02\28\02282328.D
4	5.0	5	13	I:\MS13\DATA\2023_02\28\02282329.D
5	25	26	13	I:\MS13\DATA\2023_02\28\02282330.D
6	50	52	13	I:\MS13\DATA\2023_02\28\02282331.D
7	100	104	13	I:\MS13\DATA\2023_02\28\02282332.D

#	ID	Update Time	Quant Time	Acquisition Time
1	0.40	Mar 01 07:57 2023	Mar 01 07:57 2023	28 Feb 2023 21:22
2	1.0	Mar 01 07:58 2023	Mar 01 07:57 2023	28 Feb 2023 21:58
3	2.5	Mar 01 07:58 2023	Mar 01 07:57 2023	28 Feb 2023 22:33
4	5.0	Mar 01 07:58 2023	Mar 01 07:57 2023	28 Feb 2023 23:09
5	25	Mar 01 07:58 2023	Mar 01 07:57 2023	28 Feb 2023 23:45
6	50	Mar 01 07:58 2023	Mar 01 07:57 2023	1 Mar 2023 00:21
7	100	Mar 01 07:58 2023	Mar 01 07:57 2023	1 Mar 2023 00:57

C13022823.M

Wed Mar 01 12:08:40 2023

Data File : I:\MS13\DATA\2023_02\28\02282326.D
 Acq On : 28 Feb 2023 21:22
 Sample : 0.4ng C13022823 ICAL Std.
 Misc : S35-01202301/S35-02282308 (3/30)

Vial: 14
 Operator: TZ
 Inst : MS13

Quant Time: Mar 01 07:57:18 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:56:00 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.32	130	201775	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	9.38	114	845008	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	14.88	54	134493	12.500	ng	0.00

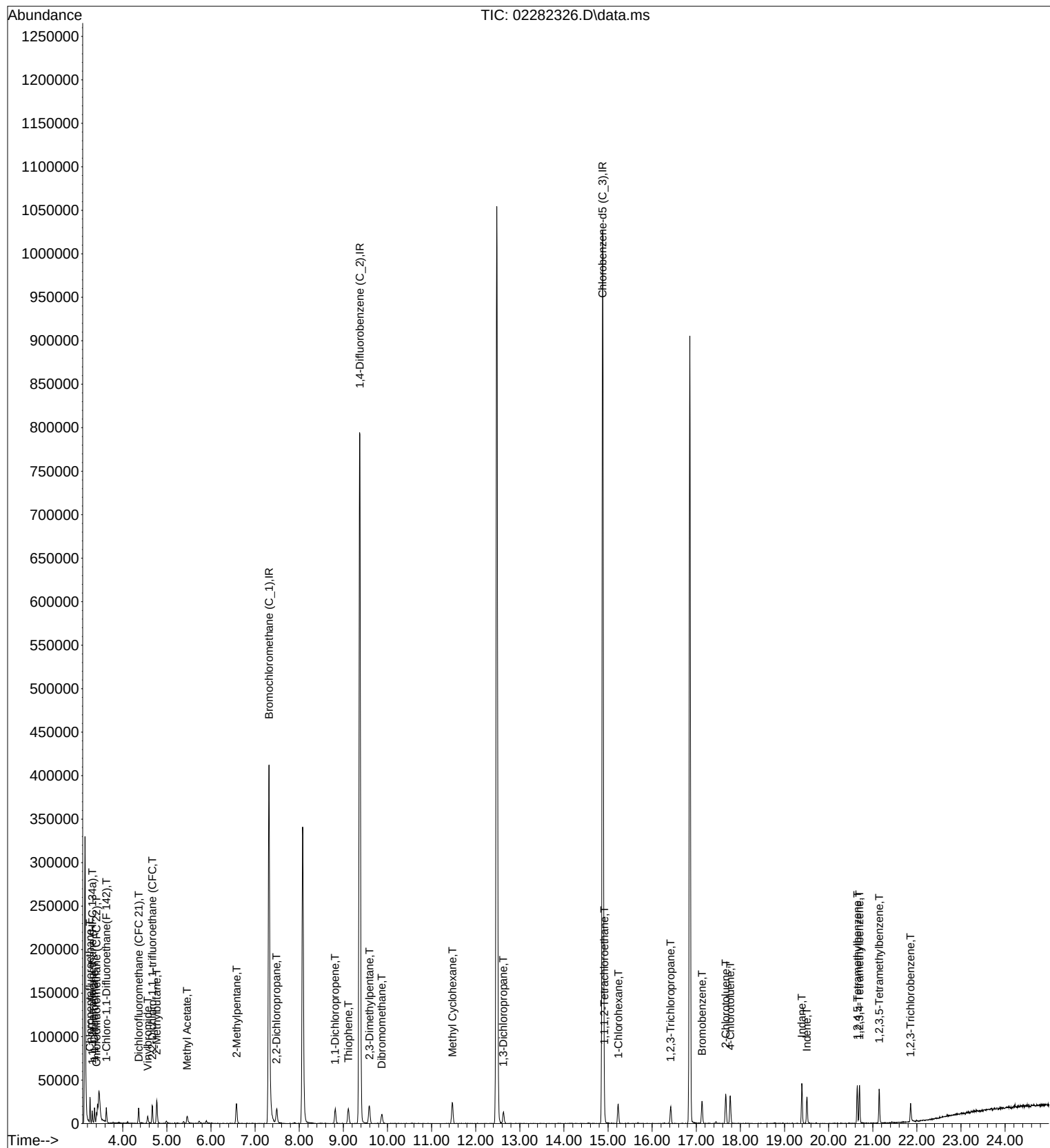
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.26	85	9149	0.380	ng	99
3) 1,1,1,2-Tetrafluoroeth...	3.31	83	7126	0.409	ng	100
4) 1,1-Difluoroethane	3.36	65	6256	0.383	ng	89
5) Chlorodifluoromethane ...	3.41	67	2092	0.390	ng	94
6) 1-Chloro-1,1-Difluoroe...	3.63	65	13895	0.401	ng	99
7) Dichlorofluoromethane ...	4.36	67	14322	0.367	ng	99
8) Vinylbromide	4.57	108	6034	0.343	ng	99
9) 2,2-Dichloro-1,1,1-tri...	4.67	83	10167	0.377	ng	98
10) 2-Methylbutane	4.77	57	6477	0.379	ng	99
11) Methyl Acetate	5.46	43	13066	0.366	ng	97
12) 2-Methylpentane	6.58	71	5914	0.361	ng	95
13) 2,2-Dichloropropane	7.49	77	10902	0.364	ng	95
14) 1,1-Dichloropropene	8.81	75	9432	0.371	ng	99
15) Thiophene	9.11	84	14639	0.369	ng	99
17) 2,3-Dimethylpentane	9.59	56	11152	0.393	ng	98
18) Dibromomethane	9.87	174	6575	0.463	ng	98
20) Methyl Cyclohexane	11.48	55	10043	0.395	ng	99
21) 1,3-Dichloropropane	12.62	76	10399	0.394	ng	96
22) 1,1,1,2-Tetrachloroethane	14.92	131	6040	0.338	ng	98
23) 1-Chlorohexane	15.23	91	9396	0.361	ng	93
24) 1,2,3-Trichloropropane	16.42	75	10485	0.389	ng	99
25) Bromobenzene	17.13	77	12550	0.389	ng	98
26) 2-Chlorotoluene	17.67	91	23018	0.403	ng	100
27) 4-Chlorotoluene	17.77	91	22729	0.379	ng	99
28) Indane	19.39	117	25643	0.370	ng	98
29) Indene	19.51	115	18747	0.339	ng	99
30) 1,2,4,5-Tetramethylben...	20.65	119	24048	0.371	ng	98
31) 1,2,3,4-Tetramethylben...	20.70	119	27169	0.409	ng	100
32) 1,2,3,5-Tetramethylben...	21.14	119	22593	0.366	ng	98
33) 1,2,3-Trichlorobenzene	21.86	180	9900	0.432	ng	98

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

Data File : I:\MS13\DATA\2023_02\28\02282326.D
Acq On : 28 Feb 2023 21:22
Sample : 0.4ng C13022823 ICAL Std.
Misc : S35-01202301/S35-02282308 (3/30)

Vial: 14
Operator: TZ
Inst : MS13

Quant Time: Mar 01 07:57:18 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:56:00 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_02\28\02282327.D
 Acq On : 28 Feb 2023 21:58
 Sample : 1.0ng C13022823 ICAL Std.
 Misc : S35-01202301/S35-02282308 (3/30)

Vial: 14
 Operator: TZ
 Inst : MS13

TZ 3/1/23

Quant Time: Mar 01 07:57:19 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:56:00 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.32	130	200802	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	9.38	114	840406	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	14.88	54	133857	12.500	ng	0.00

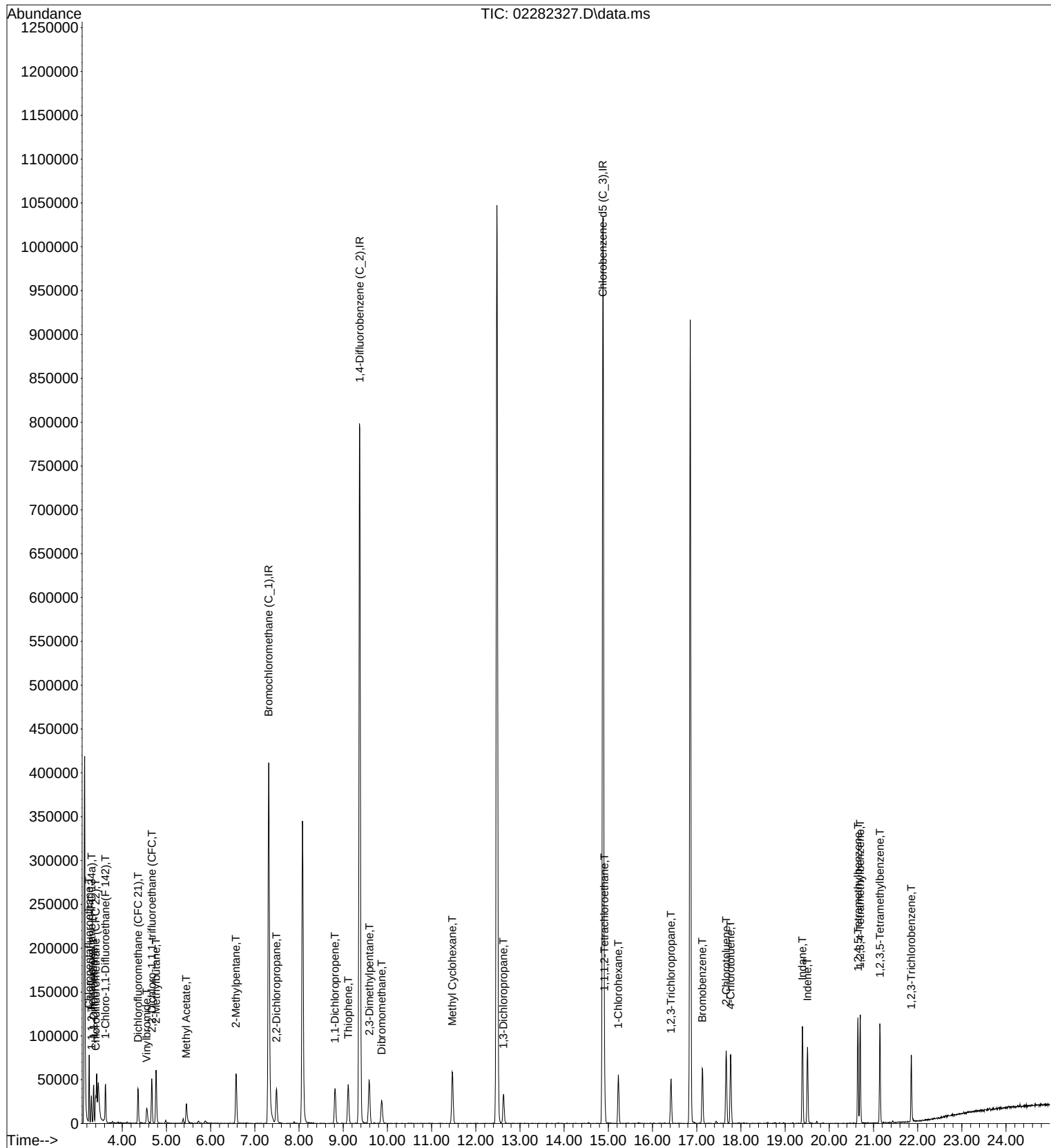
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.25	85	22619	0.944	ng	98
3) 1,1,1,2-Tetrafluoroeth...	3.30	83	16356	0.944	ng	96
4) 1,1-Difluoroethane	3.35	65	15096	0.929	ng	92
5) Chlorodifluoromethane ...	3.40	67	5007	0.939	ng	96
6) 1-Chloro-1,1-Difluoroe...	3.62	65	34494	1.000	ng	99
7) Dichlorofluoromethane ...	4.36	67	34485	0.889	ng	99
8) Vinylbromide	4.56	108	15290	0.874	ng	100
9) 2,2-Dichloro-1,1,1-tri...	4.67	83	25235	0.940	ng	99
10) 2-Methylbutane	4.77	57	14943	0.878	ng	97
11) Methyl Acetate	5.45	43	32391	0.912	ng	98
12) 2-Methylpentane	6.58	71	14290	0.877	ng	95
13) 2,2-Dichloropropane	7.49	77	27526	0.922	ng	99
14) 1,1-Dichloropropene	8.81	75	23716	0.937	ng	99
15) Thiophene	9.11	84	35129	0.891	ng	99
17) 2,3-Dimethylpentane	9.59	56	25562	0.905	ng	98
18) Dibromomethane	9.87	174	16104	1.141	ng	99
20) Methyl Cyclohexane	11.47	55	24206	0.956	ng	98
21) 1,3-Dichloropropane	12.62	76	25177	0.959	ng	100
22) 1,1,1,2-Tetrachloroethane	14.91	131	14904	0.838	ng	99
23) 1-Chlorohexane	15.23	91	24172	0.934	ng	99
24) 1,2,3-Trichloropropane	16.42	75	26586	0.990	ng	99
25) Bromobenzene	17.13	77	30795	0.959	ng	99
26) 2-Chlorotoluene	17.67	91	55496	0.975	ng	98
27) 4-Chlorotoluene	17.76	91	57301	0.959	ng	100
28) Indane	19.39	117	65009	0.943	ng	100
29) Indene	19.51	115	50412	0.915	ng	99
30) 1,2,4,5-Tetramethylben...	20.65	119	63978	0.992	ng	99
31) 1,2,3,4-Tetramethylben...	20.70	119	68915	1.042	ng	99
32) 1,2,3,5-Tetramethylben...	21.14	119	63454	1.032	ng	98
33) 1,2,3-Trichlorobenzene	21.86	180	26557	1.164	ng	99

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

Data File : I:\MS13\DATA\2023_02\28\02282327.D
Acq On : 28 Feb 2023 21:58
Sample : 1.0ng C13022823 ICAL Std.
Misc : S35-01202301/S35-02282308 (3/30)

Vial: 14
Operator: TZ
Inst : MS13

Quant Time: Mar 01 07:57:19 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:56:00 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_02\28\02282328.D
 Acq On : 28 Feb 2023 22:33
 Sample : 2.5ng C13022823 ICAL Std.
 Misc : S35-01202301/S35-02282308 (3/30)

Vial: 14
 Operator: TZ
 Inst : MS13

Tz 3/1/23

Quant Time: Mar 01 07:57:20 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:56:00 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.32	130	197671	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	9.38	114	834341	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	14.88	54	131880	12.500	ng	0.00

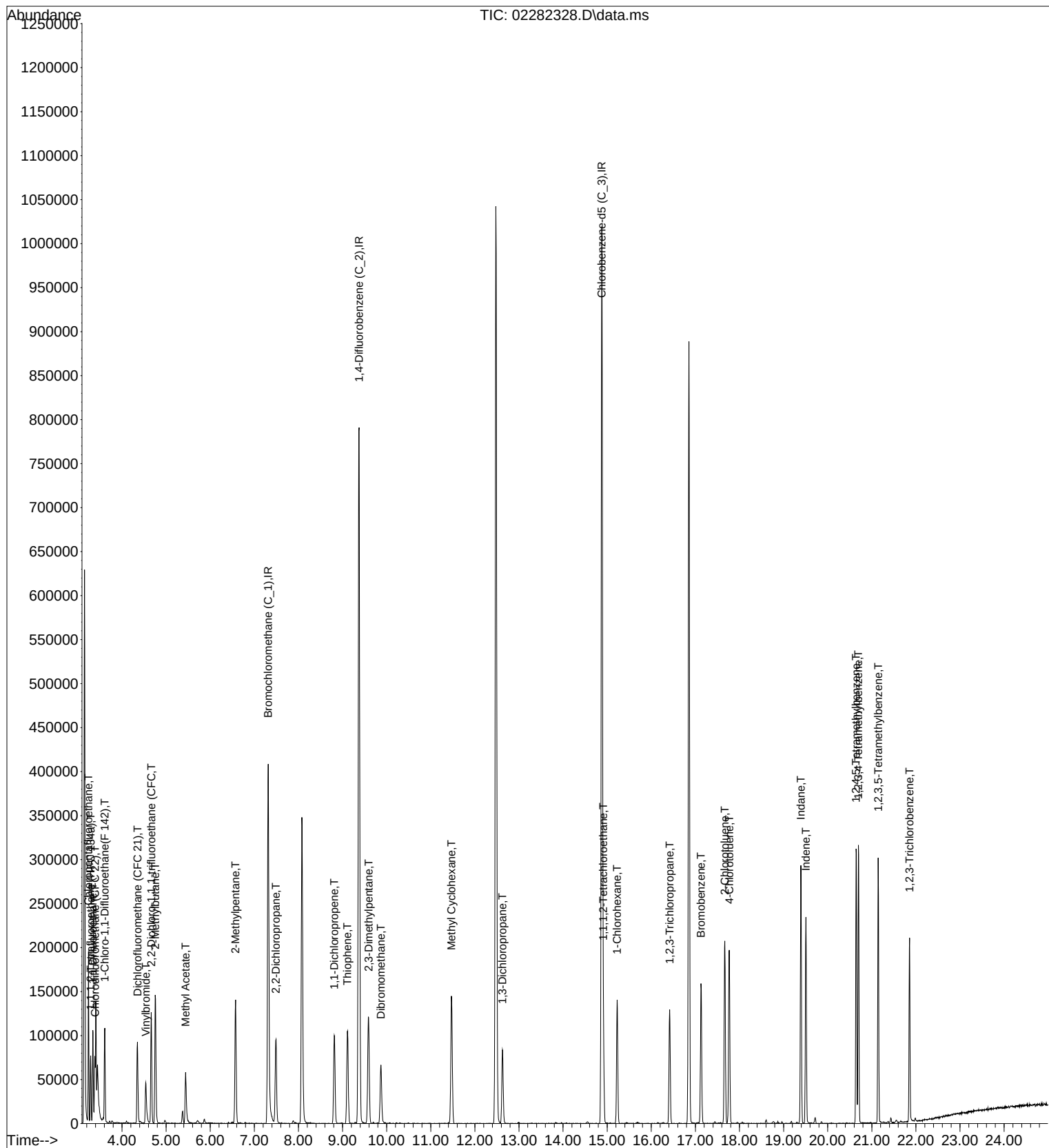
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.24	85	54804	2.324	ng	99
3) 1,1,1,2-Tetrafluoroeth...	3.29	83	40691	2.387	ng	96
4) 1,1-Difluoroethane	3.34	65	36911	2.307	ng	94
5) Chlorodifluoromethane ...	3.39	67	12697	2.418	ng	94
6) 1-Chloro-1,1-Difluoroe...	3.61	65	82995	2.444	ng	100
7) Dichlorofluoromethane ...	4.35	67	85490	2.238	ng	99
8) Vinylbromide	4.54	108	39323	2.282	ng	100
9) 2,2-Dichloro-1,1,1-tri...	4.66	83	62364	2.359	ng	99
10) 2-Methylbutane	4.75	57	38118	2.275	ng	98
11) Methyl Acetate	5.44	43	78680	2.251	ng	# 98
12) 2-Methylpentane	6.58	71	35420	2.207	ng	98
13) 2,2-Dichloropropane	7.49	77	67300	2.291	ng	98
14) 1,1-Dichloropropene	8.81	75	58884	2.362	ng	98
15) Thiophene	9.11	84	86754	2.235	ng	100
17) 2,3-Dimethylpentane	9.59	56	63814	2.275	ng	98
18) Dibromomethane	9.87	174	40333	2.878	ng	99
20) Methyl Cyclohexane	11.47	55	59546	2.388	ng	100
21) 1,3-Dichloropropane	12.63	76	62625	2.420	ng	99
22) 1,1,1,2-Tetrachloroethane	14.91	131	37967	2.168	ng	99
23) 1-Chlorohexane	15.23	91	60971	2.392	ng	99
24) 1,2,3-Trichloropropane	16.42	75	66997	2.533	ng	99
25) Bromobenzene	17.13	77	77118	2.437	ng	99
26) 2-Chlorotoluene	17.67	91	141920	2.532	ng	100
27) 4-Chlorotoluene	17.77	91	142292	2.418	ng	100
28) Indane	19.39	117	165728	2.440	ng	100
29) Indene	19.51	115	133669	2.462	ng	99
30) 1,2,4,5-Tetramethylben...	20.64	119	167125	2.630	ng	100
31) 1,2,3,4-Tetramethylben...	20.69	119	175363	2.692	ng	100
32) 1,2,3,5-Tetramethylben...	21.14	119	160925	2.656	ng	100
33) 1,2,3-Trichlorobenzene	21.86	180	71498	3.181	ng	97

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

Data File : I:\MS13\DATA\2023_02\28\02282328.D
Acq On : 28 Feb 2023 22:33
Sample : 2.5ng C13022823 ICAL Std.
Misc : S35-01202301/S35-02282308 (3/30)

Vial: 14
Operator: TZ
Inst : MS13

Quant Time: Mar 01 07:57:20 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:56:00 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_02\28\02282329.D
 Acq On : 28 Feb 2023 23:09
 Sample : 5.0ng C13022823 ICAL Std.
 Misc : S35-01202301/S35-02282308 (3/30)

Vial: 14
 Operator: TZ
 Inst : MS13

TZ 3/1/23

Quant Time: Mar 01 07:57:21 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:56:00 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.32	130	199070	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	9.38	114	837571	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	14.88	54	133737	12.500	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.23	85	108736	4.578	ng	99
3) 1,1,1,2-Tetrafluoroeth...	3.28	83	80366	4.681	ng	99
4) 1,1-Difluoroethane	3.33	65	72290	4.487	ng	98
5) Chlorodifluoromethane ...	3.37	67	25484	4.819	ng	96
6) 1-Chloro-1,1-Difluoroe...	3.60	65	166806	4.877	ng	100
7) Dichlorofluoromethane ...	4.34	67	168617	4.383	ng	100
8) Vinylbromide	4.53	108	76785	4.425	ng	99
9) 2,2-Dichloro-1,1,1-tri...	4.66	83	121485	4.563	ng	100
10) 2-Methylbutane	4.75	57	74942	4.441	ng	99
11) Methyl Acetate	5.43	43	157382	4.471	ng	# 98
12) 2-Methylpentane	6.57	71	68525	4.240	ng	95
13) 2,2-Dichloropropane	7.49	77	133281	4.506	ng	100
14) 1,1-Dichloropropene	8.81	75	115752	4.611	ng	99
15) Thiophene	9.11	84	175522	4.490	ng	99
17) 2,3-Dimethylpentane	9.59	56	127666	4.534	ng	100
18) Dibromomethane	9.87	174	80295	5.708	ng	99
20) Methyl Cyclohexane	11.47	55	118174	4.673	ng	100
21) 1,3-Dichloropropane	12.63	76	121351	4.625	ng	99
22) 1,1,1,2-Tetrachloroethane	14.91	131	75713	4.263	ng	99
23) 1-Chlorohexane	15.23	91	121391	4.696	ng	99
24) 1,2,3-Trichloropropane	16.42	75	132343	4.933	ng	100
25) Bromobenzene	17.13	77	153087	4.770	ng	100
26) 2-Chlorotoluene	17.67	91	281215	4.947	ng	100
27) 4-Chlorotoluene	17.76	91	286642	4.803	ng	100
28) Indane	19.39	117	333370	4.841	ng	100
29) Indene	19.51	115	277645	5.042	ng	100
30) 1,2,4,5-Tetramethylben...	20.64	119	348989	5.416	ng	100
31) 1,2,3,4-Tetramethylben...	20.69	119	356295	5.393	ng	99
32) 1,2,3,5-Tetramethylben...	21.14	119	338776	5.514	ng	99
33) 1,2,3-Trichlorobenzene	21.86	180	155868	6.839	ng	99

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

Vial: 14
Operator: TZ
Inst : MS13

Quant Time: Mar 01 07:57:21 2023

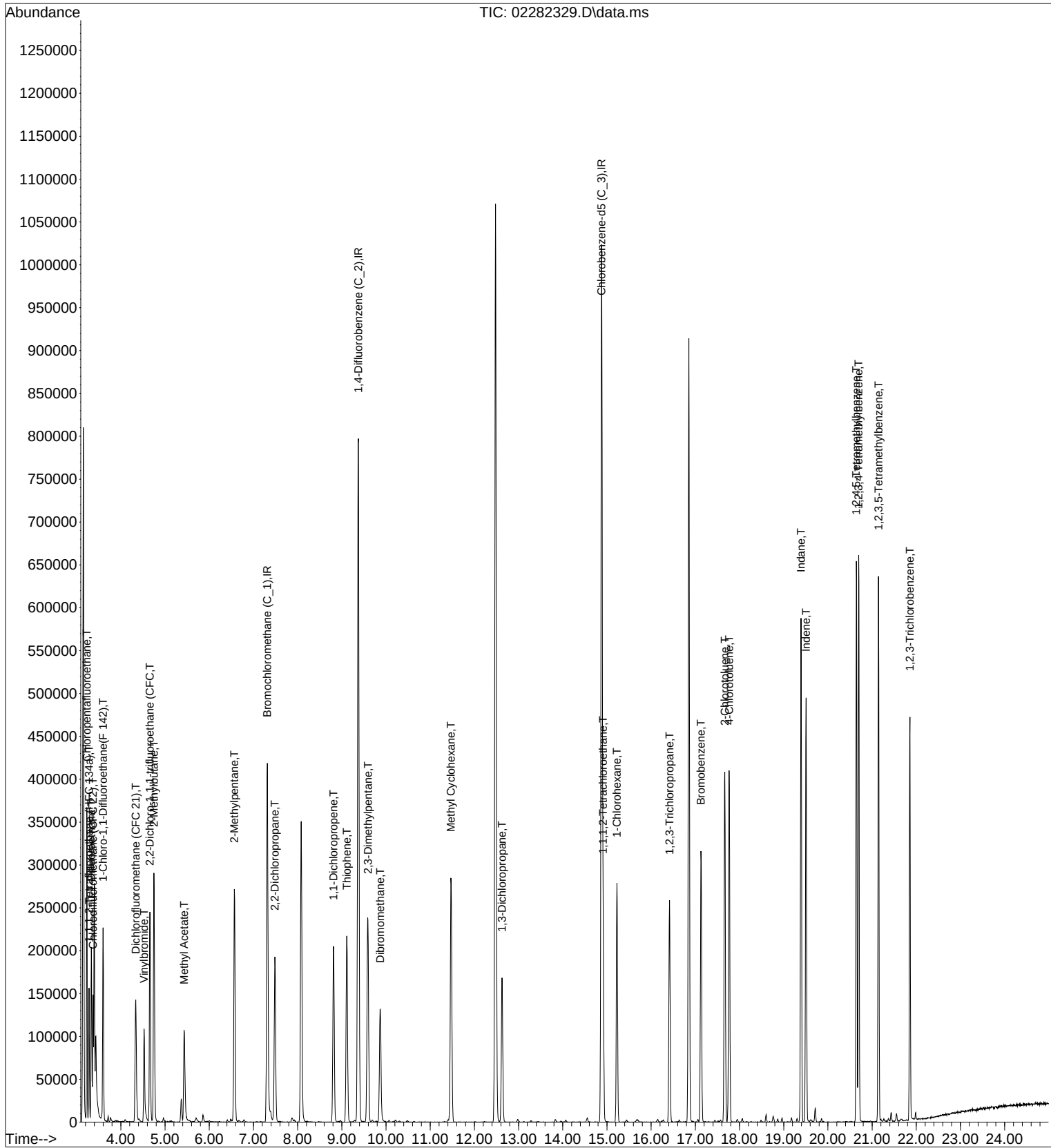
Quant Method : I:\MS13\METHODS\C13022823.M

Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD

QLast Update : Wed Mar 01 07:56:00 2023

Response via : Initial Calibration

DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_02\28\02282330.D
 Acq On : 28 Feb 2023 23:45
 Sample : 25ng C13022823 ICAL Std.
 Misc : S35-01202301/S35-02282306 (3/30)

Vial: 15
 Operator: TZ
 Inst : MS13

Tz 3/1/23

Quant Time: Mar 01 07:57:22 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:56:00 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.32	130	197973	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	9.38	114	834390	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	14.88	54	134156	12.500	ng	0.00

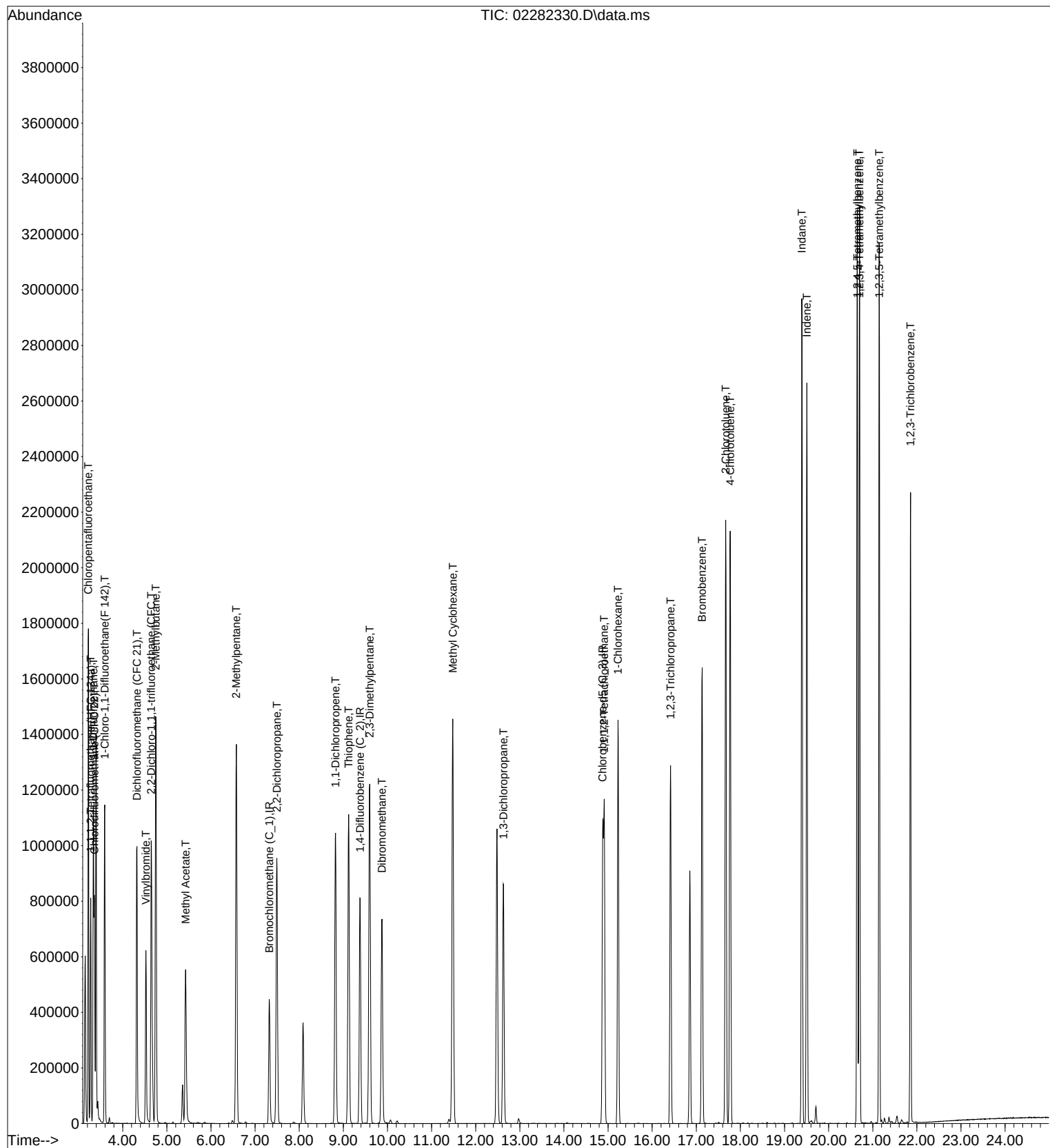
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.22	85	555429	23.517	ng	100
3) 1,1,1,2-Tetrafluoroeth...	3.27	83	426957	25.005	ng	100
4) 1,1-Difluoroethane	3.34	65	381193	23.793	ng	100
5) Chlorodifluoromethane ...	3.36	67	138395	26.314	ng	100
6) 1-Chloro-1,1-Difluoroe...	3.59	65	859125	25.258	ng	100
7) Dichlorofluoromethane ...	4.32	67	865996	22.635	ng	100
8) Vinylbromide	4.53	108	396155	22.957	ng	100
9) 2,2-Dichloro-1,1,1-tri...	4.65	83	626261	23.652	ng	100
10) 2-Methylbutane	4.75	57	376486	22.435	ng	100
11) Methyl Acetate	5.43	43	824203	23.544	ng	100
12) 2-Methylpentane	6.58	71	353678	22.006	ng	100
13) 2,2-Dichloropropane	7.49	77	692341	23.534	ng	100
14) 1,1-Dichloropropene	8.82	75	600023	24.037	ng	100
15) Thiophene	9.12	84	901841	23.196	ng	100
17) 2,3-Dimethylpentane	9.60	56	659085	23.498	ng	100
18) Dibromomethane	9.88	174	411569	29.371	ng	100
20) Methyl Cyclohexane	11.48	55	602128	23.735	ng	100
21) 1,3-Dichloropropane	12.63	76	637326	24.213	ng	100
22) 1,1,1,2-Tetrachloroethane	14.91	131	395327	22.191	ng	100
23) 1-Chlorohexane	15.23	91	628472	24.235	ng	100
24) 1,2,3-Trichloropropane	16.42	75	660984	24.563	ng	100
25) Bromobenzene	17.13	77	799153	24.821	ng	100
26) 2-Chlorotoluene	17.67	91	1468668	25.753	ng	100
27) 4-Chlorotoluene	17.77	91	1491333	24.910	ng	100
28) Indane	19.39	117	1735590	25.122	ng	100
29) Indene	19.51	115	1502444	27.199	ng	100
30) 1,2,4,5-Tetramethylben...	20.65	119	1796540	27.794	ng	100
31) 1,2,3,4-Tetramethylben...	20.70	119	1805726	27.249	ng	100
32) 1,2,3,5-Tetramethylben...	21.14	119	1675916	27.192	ng	100
33) 1,2,3-Trichlorobenzene	21.86	180	733129	32.065	ng	100

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

Data File : I:\MS13\DATA\2023_02\28\02282330.D
Acq On : 28 Feb 2023 23:45
Sample : 25ng C13022823 ICAL Std.
Misc : S35-01202301/S35-02282306 (3/30)

Vial: 15
Operator: TZ
Inst : MS13

Quant Time: Mar 01 07:57:22 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:56:00 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_02\28\02282331.D
 Acq On : 1 Mar 2023 00:21
 Sample : 50ng C13022823 ICAL Std.
 Misc : S35-01202301/S35-02282306 (3/30)

Vial: 15
 Operator: TZ
 Inst : MS13

T2 3/1/23

Quant Time: Mar 01 07:57:23 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:56:00 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.33	130	203498	12.500	ng	0.01
16) 1,4-Difluorobenzene (C_2)	9.38	114	854802	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	14.88	54	134406	12.500	ng	0.00

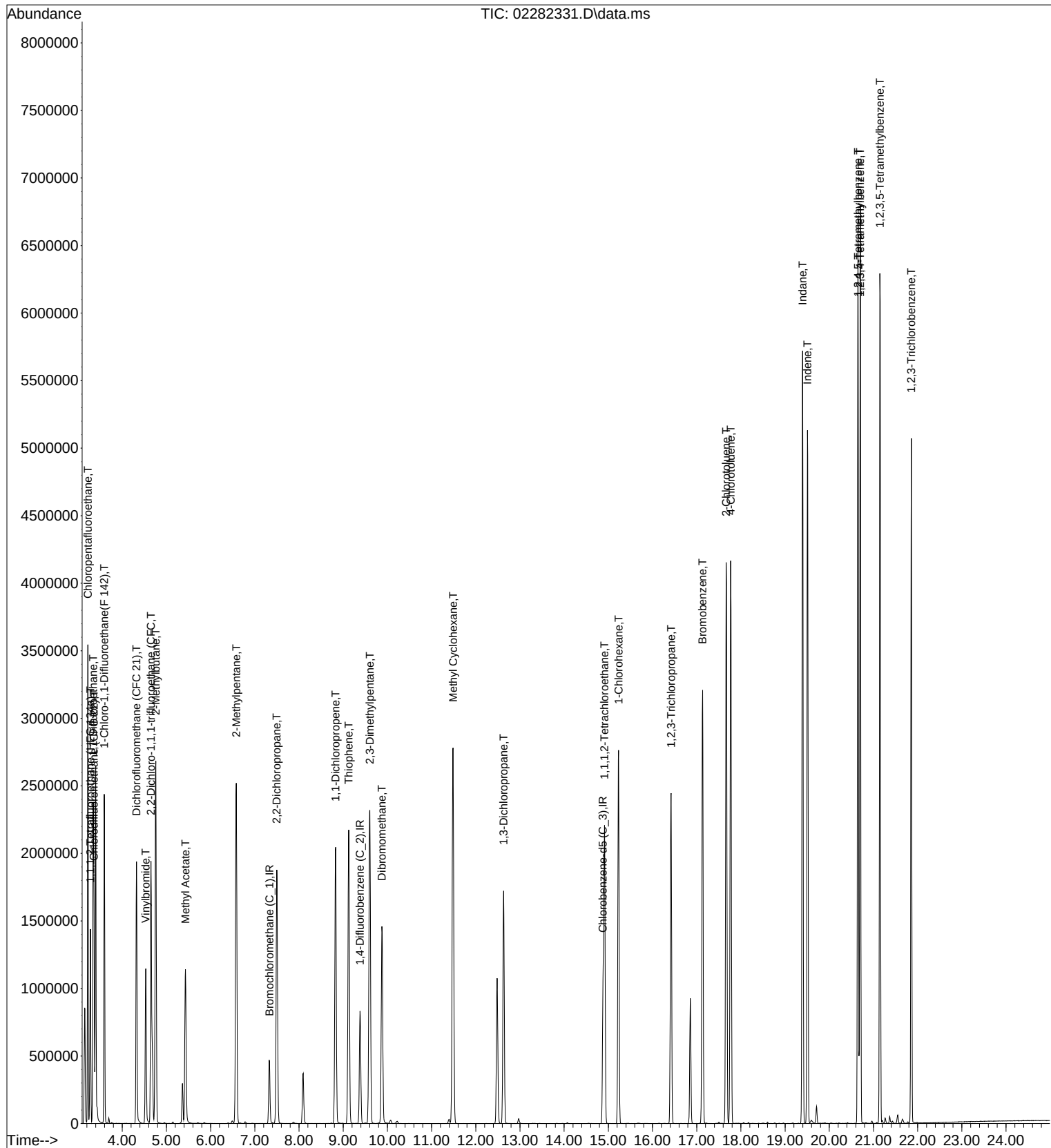
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.22	85	1076548	44.343	ng	99
3) 1,1,1,2-Tetrafluoroeth...	3.28	83	829471	47.260	ng	99
4) 1,1-Difluoroethane	3.34	65	725303	44.043	ng	99
5) Chlorodifluoromethane ...	3.36	67	263439	48.730	ng	97
6) 1-Chloro-1,1-Difluoroe...	3.59	65	1675391	47.918	ng	100
7) Dichlorofluoromethane ...	4.32	67	1686137	42.874	ng	99
8) Vinylbromide	4.53	108	771278	43.482	ng	100
9) 2,2-Dichloro-1,1,1-tri...	4.65	83	1218629	44.774	ng	100
10) 2-Methylbutane	4.76	57	721143	41.807	ng	100
11) Methyl Acetate	5.43	43	1605303	44.611	ng	100
12) 2-Methylpentane	6.58	71	688374	41.668	ng	98
13) 2,2-Dichloropropane	7.50	77	1360999	45.007	ng	99
14) 1,1-Dichloropropene	8.83	75	1178206	45.917	ng	99
15) Thiophene	9.13	84	1765066	44.166	ng	100
17) 2,3-Dimethylpentane	9.60	56	1281905	44.611	ng	99
18) Dibromomethane	9.88	174	809086	56.360	ng	100
20) Methyl Cyclohexane	11.49	55	1173843	46.185	ng	100
21) 1,3-Dichloropropane	12.63	76	1237723	46.936	ng	100
22) 1,1,1,2-Tetrachloroethane	14.91	131	774136	43.375	ng	100
23) 1-Chlorohexane	15.23	91	1214368	46.741	ng	100
24) 1,2,3-Trichloropropane	16.42	75	1292988	47.959	ng	100
25) Bromobenzene	17.13	77	1567598	48.598	ng	100
26) 2-Chlorotoluene	17.67	91	2860110	50.059	ng	100
27) 4-Chlorotoluene	17.77	91	2908851	48.496	ng	100
28) Indane	19.40	117	3369231	48.678	ng	100
29) Indene	19.51	115	2956022	53.413	ng	100
30) 1,2,4,5-Tetramethylben...	20.65	119	3606203	55.688	ng	100
31) 1,2,3,4-Tetramethylben...	20.70	119	3630800	54.688	ng	99
32) 1,2,3,5-Tetramethylben...	21.14	119	3474938	56.277	ng	99
33) 1,2,3-Trichlorobenzene	21.86	180	1604013	70.025	ng	100

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

Data File : I:\MS13\DATA\2023_02\28\02282331.D
Acq On : 1 Mar 2023 00:21
Sample : 50ng C13022823 ICAL Std.
Misc : S35-01202301/S35-02282306 (3/30)

Vial: 15
Operator: TZ
Inst : MS13

Quant Time: Mar 01 07:57:23 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:56:00 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_02\28\02282332.D
 Acq On : 1 Mar 2023 00:57
 Sample : 100ng C13022823 ICAL Std.
 Misc : S35-01202301/S35-02282306 (3/30)

Vial: 15
 Operator: TZ
 Inst : MS13

T2 3/1/23

Quant Time: Mar 01 07:57:24 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:56:00 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.33	130	204563	12.500	ng	0.01
16) 1,4-Difluorobenzene (C_2)	9.39	114	868107	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	14.88	54	135731	12.500	ng	0.00

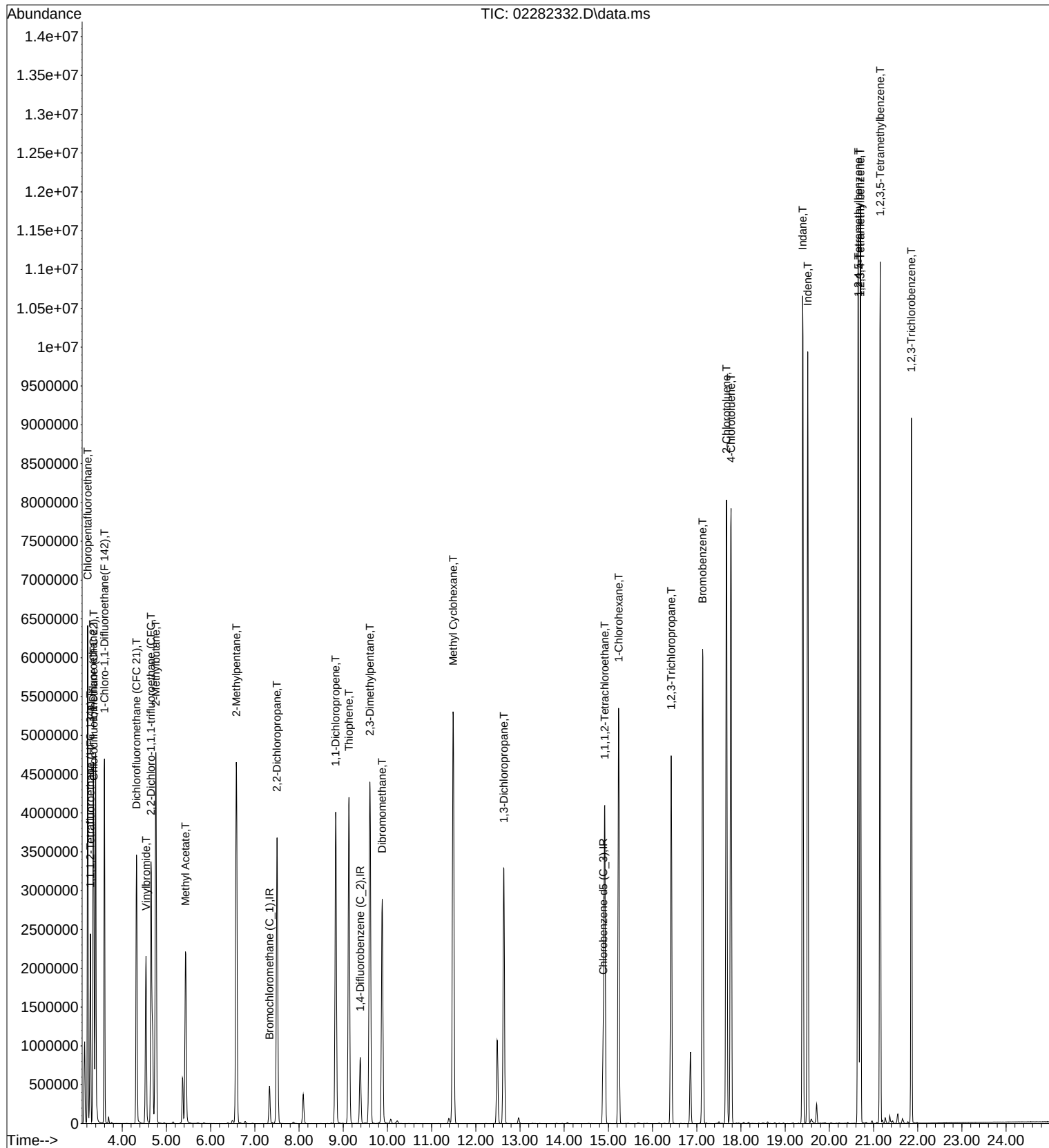
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.22	85	2065497	84.635	ng	100
3) 1,1,1,2-Tetrafluoroeth...	3.28	83	1544275	87.529	ng	99
4) 1,1-Difluoroethane	3.34	65	1239889	74.899	ng	95
5) Chlorodifluoromethane ...	3.35	67	511232	94.074	ng	98
6) 1-Chloro-1,1-Difluoroe...	3.60	65	3305773	94.056	ng	99
7) Dichlorofluoromethane ...	4.32	67	3322173	84.035	ng	99
8) Vinylbromide	4.54	108	1528510	85.723	ng	99
9) 2,2-Dichloro-1,1,1-tri...	4.65	83	2380880	87.021	ng	100
10) 2-Methylbutane	4.76	57	1394601	80.429	ng	99
11) Methyl Acetate	5.43	43	3155103	87.223	ng	100
12) 2-Methylpentane	6.58	71	1330611	80.124	ng	98
13) 2,2-Dichloropropane	7.50	77	2682190	88.236	ng	99
14) 1,1-Dichloropropene	8.83	75	2319843	89.938	ng	99
15) Thiophene	9.13	84	3450239	85.883	ng	99
17) 2,3-Dimethylpentane	9.60	56	2465686	84.493	ng	99
18) Dibromomethane	9.88	174	1599623	109.720	ng	100
20) Methyl Cyclohexane	11.49	55	2276878	88.709	ng	99
21) 1,3-Dichloropropane	12.64	76	2423541	91.007	ng	99
22) 1,1,1,2-Tetrachloroethane	14.92	131	1501911	83.331	ng	99
23) 1-Chlorohexane	15.23	91	2346453	89.433	ng	100
24) 1,2,3-Trichloropropane	16.42	75	2515904	92.408	ng	100
25) Bromobenzene	17.13	77	3061034	93.971	ng	99
26) 2-Chlorotoluene	17.67	91	5536445	95.956	ng	99
27) 4-Chlorotoluene	17.78	91	5674399	93.679	ng	99
28) Indane	19.40	117	6400561	91.571	ng	100
29) Indene	19.51	115	5665644	101.375	ng	100
30) 1,2,4,5-Tetramethylben...	20.66	119	6662949	101.887	ng	99
31) 1,2,3,4-Tetramethylben...	20.71	119	6547112	97.652	ng	99
32) 1,2,3,5-Tetramethylben...	21.15	119	6222078	99.784	ng	99
33) 1,2,3-Trichlorobenzene	21.86	180	2931966	126.748	ng	100

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

Data File : I:\MS13\DATA\2023_02\28\02282332.D
Acq On : 1 Mar 2023 00:57
Sample : 100ng C13022823 ICAL Std.
Misc : S35-01202301/S35-02282306 (3/30)

Vial: 15
Operator: TZ
Inst : MS13

Quant Time: Mar 01 07:57:24 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:56:00 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_02\28\02282334.D
 Acq On : 1 Mar 2023 2:10
 Sample : 25ng C13022823 ICV Std.
 Misc : S35-01202301/S35-02282311 (3/30)

Vial: 16
 Operator: TZ
 Inst : MS13

Tz 3/1/23

Quant Time: Mar 01 07:59:23 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.32	130	201290	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	9.38	114	850538	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	14.88	54	133441	12.500	ng	0.00

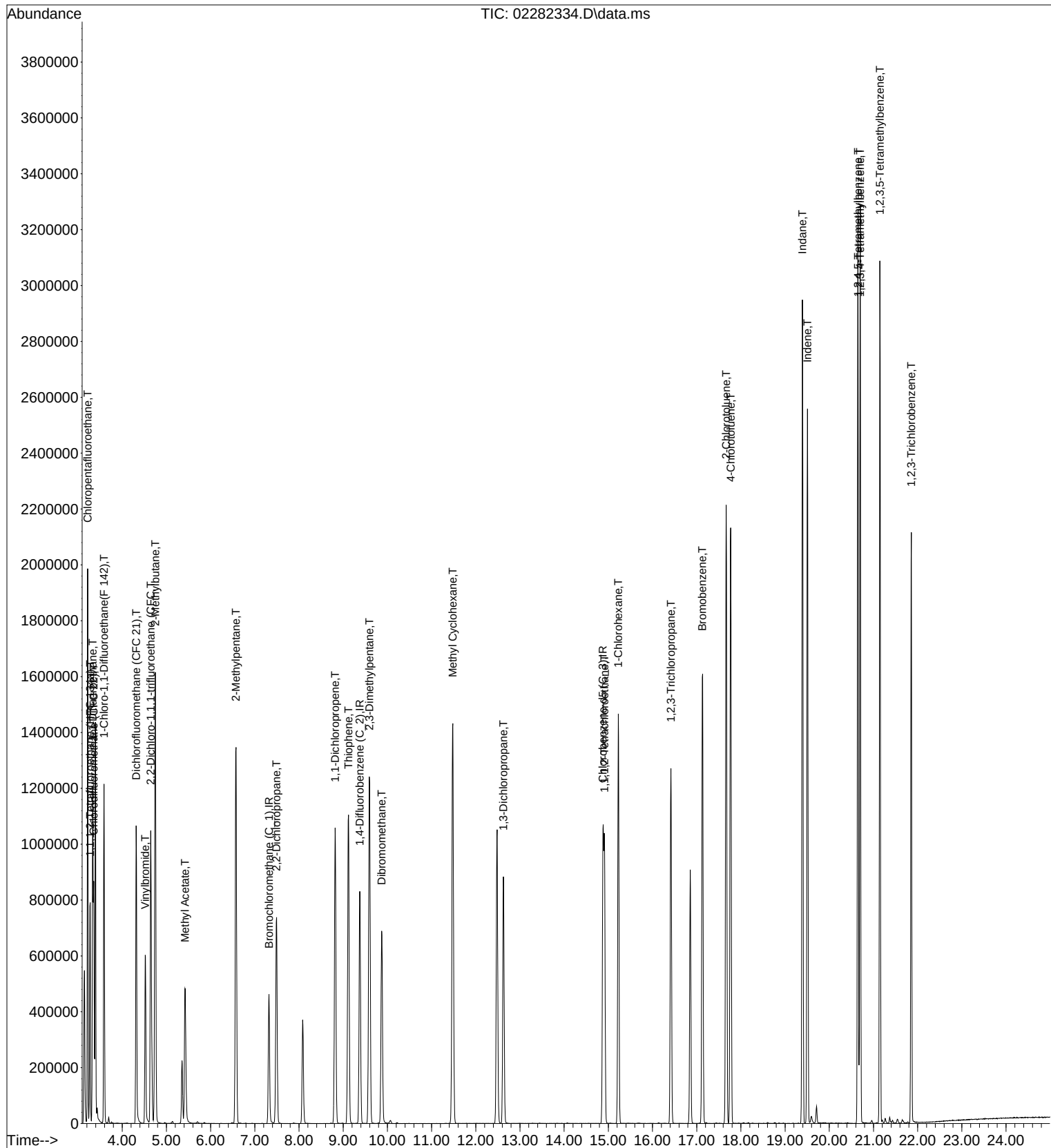
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.22	85	571149	26.997	ng	99
3) 1,1,1,2-Tetrafluoroeth...	3.27	83	435466	26.812	ng	99
4) 1,1-Difluoroethane	3.33	65	395764	28.666	ng	100
5) Chlorodifluoromethane ...	3.35	67	139877	28.488	ng	98
6) 1-Chloro-1,1-Difluoroe...	3.59	65	879318	26.967	ng	100
7) Dichlorofluoromethane ...	4.32	67	891140	26.199	ng	100
8) Vinylbromide	4.52	108	393167	25.151	ng	99
9) 2,2-Dichloro-1,1,1-tri...	4.65	83	620812	26.280	ng	100
10) 2-Methylbutane	4.75	57	390951	26.555	ng	90
11) Methyl Acetate	5.42	43	734237	22.132	ng	100
12) 2-Methylpentane	6.58	71	352488	25.061	ng	100
13) 2,2-Dichloropropane	7.49	77	534598	19.435	ng	99
14) 1,1-Dichloropropene	8.82	75	600844	26.473	ng	100
15) Thiophene	9.12	84	905836	25.813	ng	99
17) 2,3-Dimethylpentane	9.59	56	665244	26.548	ng	99
18) Dibromomethane	9.87	174	388416	25.724	ng	100
20) Methyl Cyclohexane	11.48	55	603752	27.180	ng	100
21) 1,3-Dichloropropane	12.63	76	640500	27.022	ng	100
22) 1,1,1,2-Tetrachloroethane	14.91	131	346332	20.092	ng	99
23) 1-Chlorohexane	15.23	91	626665	26.816	ng	100
24) 1,2,3-Trichloropropane	16.42	75	659350	26.519	ng	99
25) Bromobenzene	17.13	77	802615	27.235	ng	99
26) 2-Chlorotoluene	17.67	91	1499441	28.122	ng	100
27) 4-Chlorotoluene	17.77	91	1495261	26.351	ng	100
28) Indane	19.39	117	1713648	25.506	ng	100
29) Indene	19.51	115	1445176	24.730	ng	100
30) 1,2,4,5-Tetramethylben...	20.65	119	1753827	26.160	ng	100
31) 1,2,3,4-Tetramethylben...	20.70	119	1775365	25.802	ng	100
32) 1,2,3,5-Tetramethylben...	21.14	119	1650862	25.486	ng	99
33) 1,2,3-Trichlorobenzene	21.86	180	691460	24.091	ng	99

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

Data File : I:\MS13\DATA\2023_02\28\02282334.D
Acq On : 1 Mar 2023 2:10
Sample : 25ng C13022823 ICV Std.
Misc : S35-01202301/S35-02282311 (3/30)

Vial: 16
Operator: TZ
Inst : MS13

Quant Time: Mar 01 07:59:23 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



LABORATORY CONTROL SAMPLE CHECK SHEETData File Name: **02282334.D**Acq. Method File: **TO15.M**Data File Path: **I:\MS13\DATA\2023_02\28**Sample Name: **25ng C13022823 ICV :**Operator: **TZ**Misc Info: **S35-01202301/S35-02**Date Acquired: **3/1/2023****2:10**Instrument Name: **MS13**

#	Compound Name	Ret. Time	Amt. (ng)	Spike Amt.(ng)	% Rec.	Lower Limit	Upper Limit	AZ Check 70-130%
2)	Chloropentafluoroethane	3.22	27.0	27.00	100	70	130	*
3)	1,1,1,2-Tetrafluoroethane (HFC 134a)	3.27	26.8	26.00	103	70	130	*
4)	1,1-Difluoroethane	3.33	28.7	27.00	106	70	130	*
5)	Chlorodifluoromethane (CFC 22)	3.35	28.5	27.25	105	70	130	*
6)	1-Chloro-1,1-Difluoroethane(F 143)	3.59	27.0	26.50	102	70	130	*
7)	Dichlorofluoromethane (CFC 21)	4.32	26.2	25.75	102	70	130	*
8)	Vinylbromide	4.52	25.2	24.75	102	70	130	*
9)	2,2-Dichloro-1,1,1-trifluoroethane	4.65	26.3	27.00	97	70	130	*
10)	2-Methylbutane	4.75	26.6	28.00	95	70	130	*
11)	Methyl Acetate	5.42	22.1	22.00	100	70	130	*
12)	2-Methylpentane	6.58	25.1	24.75	101	70	130	*
13)	2,2-Dichloropropane	7.49	19.4	19.25	101	70	130	*
14)	1,1-Dichloropropene	8.82	26.5	25.75	103	70	130	*
15)	Thiophene	9.12	25.8	25.25	102	70	130	*
17)	2,3-Dimethylpentane	9.59	26.5	26.25	101	70	130	*
18)	Dibromomethane	9.87	25.7	25.75	100	70	130	*
20)	Methyl Cyclohexane	11.48	27.2	26.75	102	70	130	*
21)	1,3-Dichloropropane	12.63	27.0	26.50	102	70	130	*
22)	1,1,1,2-Tetrachloroethane	14.91	20.1	19.50	103	70	130	*
23)	1-Chlorohexane	15.23	26.8	26.00	103	70	130	*
24)	1,2,3-Trichloropropane	16.42	26.5	26.50	100	70	130	*
25)	Bromobenzene	17.13	27.2	26.50	103	70	130	*
26)	2-Chlorotoluene	17.67	28.1	27.50	102	70	130	*
27)	4-Chlorotoluene	17.77	26.4	25.75	103	70	130	*
28)	Indane	19.39	25.5	25.00	102	70	130	*
29)	Indene	19.51	24.7	24.00	103	70	130	*
30)	1,2,4,5-Tetramethylbenzene	20.65	26.2	25.50	103	70	130	*
31)	1,2,3,4-Tetramethylbenzene	20.70	25.8	26.00	99	70	130	*
32)	1,2,3,5-Tetramethylbenzene	21.14	25.5	25.50	100	70	130	*
33)	1,2,3-Trichlorobenzene	21.86	24.1	25.25	95	70	130	*

* = Pass

Method Path : I:\MS16\METHODS\
Method File : R16122022.M
Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
Last Update : Wed Dec 21 03:06:38 2022
Response Via : Initial Calibration

12/21/22

Calibration Files

0.1 =12202209.D 0.2 =12202210.D 0.5 =12202211.D 1.0 =12202212.D 5.0 =12202219.D 25 =12202214.D 50 =12202215.D
100 =12202217.D

Compound	0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD

1) IR Bromochloromethane...	-----ISTD-----									
2) T Propene	1.481	1.625	1.678	1.608	1.534	1.735	1.847	1.983	1.686	9.81
3) T Dichlorodifluo...	1.698	1.841	2.046	1.947	1.976	1.918	1.817	1.704	1.868	6.75
4) T Chloromethane	1.665	1.709	2.021	1.916	1.974	1.895	1.688	1.112	1.747	16.64
5) T 1,2-Dichloro-1...	0.950	0.957	1.126	1.063	1.130	1.080	1.034	1.008	1.043	6.64
6) T Vinyl Chloride	1.332	1.464	1.756	1.697	1.800	1.716	1.634	1.573	1.622	9.78
7) T 1,3-Butadiene	1.028	1.104	1.428	1.395	1.545	1.514	1.444	1.408	1.359	13.89
8) T Bromomethane	0.670	0.753	0.866	0.835	0.901	0.872	0.829	0.797	0.815	9.13
9) T Chloroethane	0.578	0.725	0.871	0.811	0.860	0.834	0.796	0.769	0.780	12.15
10) T Ethanol	1.371	1.307	1.287	1.196	1.221	1.138	1.074	1.029	1.203	9.81
11) T Acetonitrile	4.023	3.101	3.020	2.820	2.931	2.851	2.735	2.621	3.013	14.46
12) T Acrolein	0.806	0.837	0.922	0.874	0.881	0.862	0.838	0.795	0.852	4.87
13) T Acetone	1.037	0.985	0.936	0.901	0.924	0.908	0.865	0.804	0.920	7.69
14) T Trichlorofluor...	1.460	1.666	1.882	1.827	1.846	1.790	1.695	1.625	1.724	8.16
15) T 2-Propanol (Is...	3.356	3.194	3.750	3.510	3.709	3.273	2.695	2.142	3.204	16.94
16) T Acrylonitrile	1.588	1.577	1.798	1.792	1.843	1.794	1.709	1.630	1.716	6.14
17) T 1,1-Dichloroet...	0.854	0.953	1.083	1.038	1.034	1.026	0.983	0.963	0.992	7.10
18) T 2-Methyl-2-Pro...	1.810	1.889	2.270	2.301	2.711	2.807	2.199	2.284	2.284	16.42
19) T Methylene Chlo...	1.024	0.953	1.055	1.042	1.041	1.041	1.012	0.967	1.017	3.71
20) T 3-Chloro-1-pro...	1.727	1.778	1.747	1.920	1.939	2.029	1.956	1.861	1.870	5.86
21) T Trichlorotrifl...	0.694	0.816	0.922	0.906	0.922	0.905	0.870	0.834	0.859	9.02
22) T Carbon Disulfide	3.336	3.479	3.909	3.790	3.734	3.766	3.557	3.425	3.625	5.61
23) T trans-1,2-Dich...	1.147	1.316	1.645	1.656	1.674	1.668	1.624	1.535	1.533	12.82
24) T 1,1-Dichloroet...	1.571	1.745	1.978	1.999	1.997	1.964	1.877	1.773	1.863	8.30
25) T Methyl tert-Bu...	2.264	2.423	2.772	2.768	2.909	3.070	2.988	2.417	2.701	11.01
26) T Vinyl Acetate	0.127 0.148 0.225 0.246 0.246 0.246 0.242 0.206 0.206 0.206									
27) T 2-Butanone (MEK)	0.410	0.512	0.668	0.693	0.780	0.789	0.756	0.726	0.667	20.44
28) T cis-1,2-Dichlo...	1.306	1.380	1.598	1.649	1.650	1.635	1.552	1.485	1.532	8.54
29) T Diisopropyl Ether	0.816	0.870	1.055	1.013	1.056	1.057	0.965	0.763	0.949	12.41
30) T Ethyl Acetate	0.289	0.356	0.441	0.463	0.525	0.537	0.479	0.398	0.436	19.45
31) T n-Hexane	2.006	2.083	2.408	2.312	2.314	2.327	2.141	1.874	2.183	8.55
32) T Chloroform	1.434	1.550	1.798	1.797	1.794	1.753	1.650	1.573	1.668	8.31
33) S 1,2-Dichloroet...	1.692	1.680	1.720	1.686	1.648	1.675	1.623	1.576	1.662	2.73
34) T Tetrahydrofura...	0.631	0.656	0.707	0.698	0.717	0.720	0.690	0.653	0.684	4.84
35) T Ethyl tert-But...	0.833 0.846 0.946 1.123 1.121 1.094 0.994 0.994 0.994 0.994									
36) T 1,2-Dichloroet...	1.111	1.257	1.483	1.445	1.478	1.446	1.349	1.266	1.354	9.85

37) IR 1,4-Difluorobenzen...	-----ISTD-----									
38) T 1,1,1-Trichlor...	0.284	0.315	0.351	0.354	0.366	0.356	0.349	0.332	0.338	7.97
39) T Isopropyl Acetate	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000									
40) T 1-Butanol	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000									
41) T Benzene	0.802	0.824	0.910	0.907	0.932	0.907	0.892	0.868	0.880	5.18
42) T Carbon Tetrach...	0.225	0.253	0.288	0.297	0.316	0.310	0.305	0.296	0.286	10.91

Method Path : I:\MS16\METHODS\
Method File : R16122022.M

Title		: EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)														ISTD														
43)	T	Cyclohexane	0.322	0.347	0.395	0.390	0.394	0.389	0.383	0.355	0.372																		7.29	
44)	T	tert-Amyl Meth...			0.333	0.353	0.402	0.505	0.525	0.532	0.442																			20.34
45)	T	1,2-Dichloropr...	0.217	0.226	0.262	0.257	0.260	0.258	0.251	0.243	0.247																			6.83
46)	T	Bromodichlorom...	0.242	0.255	0.307	0.298	0.314	0.308	0.300	0.296	0.290																			9.15
47)	T	Trichloroethene	0.187	0.204	0.249	0.248	0.262	0.260	0.256	0.249	0.239																			11.73
48)	T	1,4-Dioxane	0.109	0.131	0.173	0.171	0.187	0.186	0.185	0.183	0.166																			17.62
49)	T	2,2,4-Trimethy...	1.095	1.130	1.271	1.252	1.251	1.224	1.178	1.100	1.188																			6.06
50)	T	Methyl Methacr...			0.082	0.088	0.106	0.108	0.106	0.104	0.099																			11.25
51)	T	n-Heptane	0.213	0.231	0.274	0.269	0.279	0.276	0.269	0.256	0.258																			9.20
52)	T	cis-1,3-Dichlo...	0.192	0.244	0.322	0.332	0.382	0.385	0.377	0.369	0.325																			22.00
53)	T	4-Methyl-2-pen...	0.134	0.145	0.186	0.199	0.243	0.251	0.245	0.229	0.204																			22.46
54)	T	trans-1,3-Dich...			0.225	0.259	0.337	0.352	0.354	0.346	0.312																			17.83
55)	T	1,1,2-Trichlor...	0.171	0.189	0.222	0.221	0.229	0.230	0.225	0.222	0.214																			10.05
Chlorobenzene-d5 (.....ISTD.....)																														
56)	IR	Chlorobenzene-d5	5.480	5.445	5.434	5.346	5.558	5.441	5.532	5.543	5.472																			1.29
57)	S	Toluene-d8 (SS2)	4.486	4.419	4.875	4.768	5.168	4.985	4.881	4.765	4.793																			5.15
58)	T	Toluene	2.532	1.405	2.086	2.319	3.100	3.081	3.000	2.731	2.532																			23.11
59)	T	2-Hexanone	0.887	0.965	1.181	1.190	1.354	1.344	1.347	1.333	1.200																			15.34
60)	T	Dibromochlorom...	0.887	0.965	1.181	1.190	1.354	1.344	1.347	1.333	1.200																			15.34
61)	T	1,2-Dibromoethane	0.741	0.924	1.131	1.179	1.322	1.299	1.295	1.285	1.147																			18.38
62)	T	n-Butyl Acetate			1.900	2.129	3.243	3.465	3.439	3.165	2.890																			23.92
63)	T	n-Octane	1.127	1.083	1.272	1.251	1.338	1.295	1.254	1.195	1.227																			7.01
64)	T	Tetrachloroethene	0.948	1.033	1.272	1.210	1.342	1.326	1.320	1.313	1.220																			12.26
65)	T	Chlorobenzene	2.734	2.913	3.171	3.181	3.426	3.357	3.352	3.210	3.168																			7.47
66)	T	Ethylbenzene	4.674	4.842	5.495	5.455	5.905	5.776	5.708	5.447	5.413																			8.09
67)	T	m- & p-Xylenes	3.895	3.951	4.332	4.310	4.665	4.569	4.381	4.141	4.281																			6.38
68)	T	Bromoform			0.885	0.907	1.070	1.081	1.100	1.095	1.023																			9.68
69)	T	Styrene	2.112	2.202	2.800	2.981	3.550	3.550	3.529	3.372	3.012																			19.80
70)	T	o-Xylene	3.827	3.740	4.244	4.289	4.614	4.496	4.381	4.089	4.210																			7.32
71)	T	n-Nonane	2.752	2.857	3.229	3.204	3.311	3.141	2.949	2.593	3.005																			8.54
72)	T	1,1,2,2-Tetrac...	1.441	1.653	1.847	1.877	2.054	2.023	1.984	1.900	1.847																			11.19
73)	S	Bromofluoroben...	1.693	1.695	1.661	1.665	1.707	1.722	1.747	1.763	1.707																			2.11
74)	T	Cumene	4.518	4.746	5.357	5.333	5.896	5.765	5.623	5.230	5.308																			9.01
75)	T	alpha-Pinene																												39.73
76)	T	n-Propylbenzene	5.674	5.803	6.500	6.420	7.188	7.030	6.823	6.256	6.462																			8.44
77)	T	3-Ethyltoluene																												-1.00
78)	T	4-Ethyltoluene	3.875	4.291	4.990	5.052	5.821	5.678	5.536	5.050	5.037																			13.39
79)	T	1,3,5-Trimethy...	4.239	4.180	4.699	4.525	4.900	4.712	4.583	4.258	4.512																			5.81
80)	T	alpha-Methylst...																												-1.00
81)	T	2-Ethyltoluene																												-1.00
82)	T	1,2,4-Trimethy...																												-1.00
83)	T	n-Decane	3.602	3.625	4.389	4.401	5.029	4.908	4.645	3.913	4.314																			12.78
84)	T	Benzyl Chloride					1.082	2.645	3.044	3.286	3.059																			-1.00
85)	T	1,3-Dichlorobe...	1.850	1.862	2.346	2.317	2.829	2.773	2.727	2.408	2.623																			34.00
86)	T	1,4-Dichlorobe...	2.118	1.950	2.477	2.442	2.854	2.771	2.726	2.553	2.486																			16.07
87)	T	sec-Butylbenzene	4.859	5.196	6.116	5.989	6.705	6.447	6.212	5.512	5.880																			12.75
88)	T	4-Isopropyltol...	5.928	6.178	7.352	6.948	7.067	6.270	5.853	5.064	6.332																			10.81
89)	T	1,2,3-Trimethy...																												11.92
90)	T	1,2-Dichlorobe...	1.899	1.965	2.335	2.325	2.748	2.686	2.601	2.257	2.352																			-1.00
91)	T	d-Limonene					0.813	1.059	1.451	1.488	1.232																			13.40
92)	T	1,2-Dibromo-3-...	0.621	0.671	0.827	0.859	1.045	1.048	1.033	0.959	0.883																			23.38
93)	T	n-Undecane																												19.09
94)	T	1,2,4-Trichlor...	1.240	1.017	1.431	1.493	1.948	2.000	1.994	1.772	1.612																			-1.00
	T																													23.14

Method Path : I:\MS16\METHODS\
Method File : R16122022.M
Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

95)	T	Naphthalene	3.940	4.029	5.957	6.010	6.102	5.712	5.292	19.29
96)	T	n-Dodecane							0.000	-1.00
97)	T	Hexachlorobuta...	0.956	0.980	1.057	1.044	1.172	1.195	1.189	9.51
98)	T	Cyclohexanone							0.000	-1.00
99)	T	tert-Butylbenzene	3.823	3.975	4.577	4.563	5.143	4.980	4.649	11.41
100)	T	n-Butylbenzene	3.551	3.732	4.670	4.821	5.326	5.243	5.065	14.30
101)	T	1,1,1,2-Tetrac...	0.897	0.988	1.117	1.122	1.213	1.199	1.156	10.13

(#) = Out of Range

Primary Source Standards Concentrations (Working & Initial Calibration)

12/21/22

1ng/L Std. ID: S35-11292204
4ng/L Std. ID: S35-11292204
20ng/L Std. ID: S35-12192205

40ng/L Std. ID: S35-12162204
200ng/L Std. ID: S35-12162204
1000ng/L Std. ID: S35-12192205

Dilution Factors:															Working STD Conc.(ng/L):	Injection (L):	ICAL Points:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
		Source Std.		1		5		25		50		250		1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										

Primary Source Standards Concentrations (Working & Initial Calibration)

1ng/L Std. ID: S35-11292204 4ng/L Std. ID: S35-12162204 20ng/L Std. ID: S35-12192205			40ng/L Std. ID: S35-12162204 200ng/L Std. ID: S35-12162204 1000ng/L Std. ID: S35-12192205			Primary Working Standards												
Dilution Factors:			1	5	25	50	250	1000										
Compounds	Source Std. mg/m ³	1000ng/L	200ng/L	40ng/L	20ng/L	4ng/L	1ng/L											
cis-1,3-Dichloropropene	1.08	1080	216	432	216	4.32	1.08											
4-Methyl-2-pentanone	2.15	2150	430	860	430	8.60	2.15											
trans-1,3-Dichloropropene	1.02	1020	204	408	204	4.08	1.02											
1,1,2-Trichloroethane	1.06	1060	212	424	212	4.24	1.06											
Toluene	1.05	1050	210	420	210	4.20	1.05											
2-Hexanone	2.12	2120	424	848	424	8.48	2.12											
Dibromochloromethane	1.08	1080	216	432	216	4.32	1.08											
1,2-Dibromoethane	1.04	1040	208	416	208	4.16	1.04											
n-Butyl Acetate	2.05	2050	410	820	410	8.20	2.05											
n-Octane	1.07	1070	214	428	214	4.28	1.07											
Tetrachloroethene	1.06	1060	212	424	212	4.24	1.06											
Chlorobenzene	1.06	1060	212	424	212	4.24	1.06											
Ethylbenzene	1.05	1050	210	420	210	4.20	1.05											
m- & p-Xylene	2.10	2100	420	840	420	8.40	2.10											
Bromoform	1.07	1070	214	428	214	4.28	1.07											
Styrene	1.06	1060	212	424	212	4.24	1.06											
o-Xylene	1.06	1060	212	424	212	4.24	1.06											
n-Nonane	1.06	1060	212	424	212	4.24	1.06											
1,1,1,2,2-Tetrachloroethane	1.06	1060	212	424	212	4.24	1.06											
Cumene	1.07	1070	214	428	214	4.28	1.07											
Alpha-Pinene	1.09	1090	218	436	218	4.36	1.09											
n-Propylbenzene	1.07	1070	214	428	214	4.28	1.07											
4-Ethyltoluene	1.09	1090	218	436	218	4.36	1.09											
1,3,5-Trimethylbenzene	1.06	1060	212	424	212	4.24	1.06											
1,2,4-Trimethylbenzene	1.05	1050	210	420	210	4.20	1.05											
Benzyl Chloride	2.12	2120	424	848	424	8.48	2.12											
1,3-Dichlorobenzene	1.06	1060	212	424	212	4.24	1.06											
1,4-Dichlorobenzene	1.06	1060	212	424	212	4.24	1.06											
sec-Butylbenzene	1.06	1060	212	424	212	4.24	1.06											
p-Isopropyltoluene	1.06	1060	212	424	212	4.24	1.06											
1,2-Dichlorobenzene	1.07	1070	214	428	214	4.28	1.07											
d-Limonene	1.07	1070	214	428	214	4.28	1.07											
1,2-Dibromo-3-chloropropane	2.10	2100	420	840	420	8.40	2.10											
1,2,4-Trichlorobenzene	2.09	2090	418	836	418	8.36	2.09											
Naphthalene	1.10	1100	220	440	220	4.40	1.10											
Hexachloro-1,3-butadiene	1.06	1060	212	424	212	4.24	1.06											
tert-Butylbenzene	1.06	1060	212	424	212	4.24	1.06											
n-Butylbenzene	1.07	1070	214	428	214	4.28	1.07											
1,1,1,2-Tetrachloroethane	1.06	1060	212	424	212	4.24	1.06											

Working STD Conc.(ng/L):										Injection (L):										ICAL Points:																						
4	4	20	20	200	200	200	200	200	200	0.025	0.050	0.050	0.0250	0.0250	0.050	0.050	0.100	0.100	0.250	0.250	0.250	0.250	0.500	0.500	1.000	1.000	2.000	2.000	2.000	2.000	5.000	5.000	10.000	10.000	20.000	20.000	50.000	50.000	100.000	100.000		
0.025	0.108	0.215	0.102	0.106	0.105	0.210	0.212	0.424	0.424	0.050	0.204	0.216	0.510	0.510	1.015	1.015	2.030	2.030	4.060	4.060	10.150	10.150	20.300	20.300	40.600	40.600	81.200	81.200	162.400	162.400	324.800	324.800	649.600	649.600	1299.200	1299.200	2598.400	2598.400	5196.800	5196.800	10393.600	10393.600
0.108	0.430	0.860	0.424	0.424	0.848	0.848	1.696	1.696	3.392	0.204	0.816	0.816	1.632	1.632	3.264	3.264	6.528	6.528	13.056	13.056	26.112	26.112	52.224	52.224	104.448	104.448	208.896	208.896	417.792	417.792	835.584	835.584	1671.168	1671.168	3342.336	3342.336	6684.672	6684.672	13369.344	13369.344	26738.688	26738.688
0.215	0.860	1.720	0.848	0.848	1.696	1.696	3.392	3.392	6.784	0.408	1.632	1.632	3.264	3.264	6.528	6.528	13.056	13.056	26.112	26.112	52.224	52.224	104.448	104.448	208.896	208.896	417.792	417.792	835.584	835.584	1671.168	1671.168	3342.336	3342.336	6684.672	6684.672	13369.344	13369.344	26738.688	26738.688	53477.376	53477.376
0.430	1.720	3.440	1.696	1.696	3.392	3.392	6.784	6.784	13.568	0.816	3.264	3.264	6.528	6.528	13.056	13.056	26.112	26.112	52.224	52.224	104.448	104.448	208.896	208.896	417.792	417.792	835.584	835.584	1671.168	1671.168	3342.336	3342.336	6684.672	6684.672	13369.344	13369.344	26738.688	26738.688	53477.376	53477.376	106954.752	106954.752
0.860	3.440	6.880	3.392	3.392	6.784	6.784	13.568	13.568	27.136	1.632	6.528	6.528	13.056	13.056	26.112	26.112	52.224	52.224	104.448	104.448	208.896	208.896	417.792	417.792	835.584	835.584	1671.168	1671.168	3342.336	3342.336	6684.672	6684.672	13369.344	13369.344	26738.688	26738.688	53477.376	53477.376	106954.752	106954.752	213909.504	213909.504
1.720	6.880	13.760	6.784	6.784	13.568	13.568	27.136	27.136	54.272	3.264	13.056	13.056	26.112	26.112	52.224	52.224	104.448	104.448	208.896	208.896	417.792	417.792	835.584	835.584	1671.168	1671.168	3342.336	3342.336	6684.672	6684.672	13369.344	13369.344	26738.688	26738.688	53477.376	53477.376	106954.752	106954.752	213909.504	213909.504	427819.008	427819.008
3.440	13.760	27.520	13.568	13.568	27.136	27.136	54.272	54.272	108.544	6.528	26.112	26.112	52.224	52.224	104.448	104.448	208.896	208.896	417.792	417.792	835.584	835.584	1671.168	1671.168	3342.336	3342.336	6684.672	6684.672	13369.344	13369.344	26738.688	26738.688	53477.376	53477.376	106954.752	106954.752	213909.504	213909.504	427819.008	427819.008	855638.016	855638.016
6.880	27.520	55.040	27.136	27.136	54.272	54.272	108.544	108.544	217.088	13.056	52.224	52.224	104.448	104.448	208.896	208.896	417.792	417.792	835.584	835.584	1671.168	1671.168	3342.336	3342.336	6684.672	6684.672	13369.344	13369.344	26738.688	26738.688	53477.376	53477.376	106954.752	106954.752	213909.504	213909.504	427819.008	427819.008	855638.016	855638.016	1711276.032	1711276.032
13.760	55.040	110.080	54.272	54.272	108.544	108.544	217.088	217.088	434.176	26.112	104.448	104.448	208.896	208.896	417.792	417.792	835.584	835.584	1671.168	1671.168	3342.336	3342.336	6684.672	6684.672	13369.344	13369.344	26738.688	26738.688	53477.376	53477.376	106954.752	106954.752	213909.504	213909.504	427819.008	427819.008	855638.016	855638.016	1711276.032	1711276.032	3422552.064	3422552.064
27.520	110.080	220.160	108.544	108.544	217.088	217.088	434.176	434.176	868.352	52.224	208.896	208.896	417.792	417.792	835.584	835.584	1671.168	1671.168	3342.336	3342.336	6684.672	6684.672	13369.344	13369.344	26738.688	26738.688	53477.376	53477.376	106954.752	106954.752	213909.504	213909.504	427819.008	427819.008	855638.016	855638.016	1711276.032	1711276.032	3422552.064	3422552.064	6845104.128	6845104.128
55.040	220.160	440.320	217.088	217.088	434.176	434.176	868.352	868.352	1736.704	104.448	417.792	417.792	835.584	835.584	1671.168	1671.168	3342.336	3342.336	6684.672	6684.672	13369.344	13369.344	26738.688	26738.688	53477.376	53477.376	106954.752	106954.752	213909.504	213909.504	427819.008	427819.008	855638.016	855638.016	1711276.032	1711276.032	3422552.064	3422552.064	6845104.128	6845104.128	13690208.256	13690208.256
110.080	440.320	880.640	434.176	434.176	868.352	868.352	1736.704	1736.704	3473.408	208.896	835.584	835.584	1671.168	1671.168	3342.336	3342.336	6684.672	6684.672	13369.344	13369.344	26738.688	26738.688	53477.376	53477.376	106954.752	106954.752	213909.504	213909.504	427819.008	427819.008	855638.016	855638.016	1711276.032	1711276.032	3422552.064	3422552.064	6845104.128	6845104.128	13690208.256	13690208.256	27380416.512	27380416.512
220.160	880.640	1761.280	868.352	868.352	1736.704	1736.704	3473.408	3473.408	6946.816	417.792	1671.168	1671.168	3342.336	3342.336	6684.672	6684.672	13369.344	13369.344	26738.688	26738.688	53477.376	53477.376	106954.752	106954.752	213909.504	213909.504	427819.008	427819.008	855638.016	855638.016	1711276.032	1711276.032	3422552.064	3422552.064	6845104.128	6845104.128	13690208.256	13690208.256	27380416.512	27380416.512	54760833.024	54760833.024
440.320	1761.280	3522.560	1736.704	1736.704	3473.408	3473.408	6946.816	6946.816	13893.632	835.584	3342.336	3342.336	6684.672	6684.672	13369.344	13369.344	26738.688	26738.688	53477.376	53477.376	106954.752	106954.752	213909.504	213909.504	427819.008	427819.008	855638.016	855638.016	1711276.032	1711276.032	3422552.064	3422552.064	6845104.128	6845104.128	13690208.256	13690208.256	27380416.512	27380416.512	54760833.024	54760833.024	109521666.048	109521666.048
880.640	3522.560	7045.120	3473.408	3473.408	6946.816	6946.816	13893.632	13893.632	27787.264	1671.168	6684.672	6684.672	13369.344	13369.344	26738.688	26738.688	53477.376	53477.376	106954.752	106954.752	213909.504	213909.504	427819.008	427819.008	855638.016	855638.016	1711276.032	1711276.032	3422552.064	3422552.064	6845104.128	6845104.128	13690208.256	13690208.256	27380416.512	27380416.512	54760833.024	54760833.024	109521666.			

Method : I:\MS16\METHODS\R16122022.M (RTE Integrator)
 Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
 Last Update : Wed Dec 21 03:06:38 2022
 Response via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.1	0	13	I:\MS16\DATA\2022_12\20\12202209.D
2	0.2	0	13	I:\MS16\DATA\2022_12\20\12202210.D
3	0.5	1	13	I:\MS16\DATA\2022_12\20\12202211.D
4	1.0	1	13	I:\MS16\DATA\2022_12\20\12202212.D
5	5.0	5	13	I:\MS16\DATA\2022_12\20\12202219.D
6	25	26	13	I:\MS16\DATA\2022_12\20\12202214.D
7	50	53	13	I:\MS16\DATA\2022_12\20\12202215.D
8	100	105	13	I:\MS16\DATA\2022_12\20\12202217.D

 12/21/22

#	ID	Update Time	Quant Time	Acquisition Time
1	0.1	Dec 21 02:41 2022	Dec 20 20:41 2022	20 Dec 2022 17:18
2	0.2	Dec 21 02:42 2022	Dec 20 20:43 2022	20 Dec 2022 17:52
3	0.5	Dec 21 02:42 2022	Dec 20 20:46 2022	20 Dec 2022 18:26
4	1.0	Dec 21 02:42 2022	Dec 20 20:47 2022	20 Dec 2022 19:00
5	5.0	Dec 21 03:06 2022	Dec 21 02:39 2022	20 Dec 2022 22:58
6	25	Dec 21 02:43 2022	Dec 20 20:39 2022	20 Dec 2022 20:08
7	50	Dec 21 02:43 2022	Dec 21 02:35 2022	20 Dec 2022 20:42
8	100	Dec 21 02:43 2022	Dec 21 02:37 2022	20 Dec 2022 21:50

R16122022.M

Wed Dec 21 03:08:36 2022

Data File : I:\MS16\DATA\2022_12\20\12202209.D
 Acq On : 20 Dec 2022 17:18
 Sample : 0.1ng R16122022 ICAL Std
 Misc : S35-11092201/S35-11292204 (12/29)

Vial: 15
 Operator: WA
 Inst : GCMS-16

Quant Time: Dec 20 20:41:47 2022

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Tue Dec 20 20:36:21 2022

Response via : Initial Calibration

DataAcq Meth:T015.M

12/21/22

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.30	130	173515	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.42	114	806081	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.72	54	164902	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.15	65	293557	12.102	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	96.80%	
57) Toluene-d8 (SS2)	15.87	98	903581	15.263	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	122.08%	
73) Bromofluorobenzene (SS3)	19.10	174	279189	14.621	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	116.96%	

Target Compounds

						Qvalue
2) Propene	4.23	42	2159	0.069	ng	95
3) Dichlorodifluoromethan...	4.38	85	2498	0.084	ng	# 88
4) Chloromethane	4.67	50	2380	0.076	ng	94
5) 1,2-Dichloro-1,1,2,2-t...	4.94	135	1371	0.084	ng	77
6) Vinyl Chloride	5.10	62	1867	0.071	ng	83
7) 1,3-Butadiene	5.37	54	1513	0.063	ng	# 69
8) Bromomethane	5.80	94	949	0.078	ng	83
9) Chloroethane	6.14	64	826	0.070	ng	# 44
10) Ethanol	6.50	45	6565	0.362	ng	87
11) Acetonitrile	6.76	41	5082	0.109	ng	# 1
12) Acrolein	6.97	56	2160	0.171	ng	92
13) Acetone	7.19	58	7585	0.501	ng	# 85
14) Trichlorofluoromethane	7.41	101	2107	0.079	ng	98
15) 2-Propanol (Isopropanol)	7.72	45	9550	0.202	ng	75
16) Acrylonitrile	7.93	53	4520	0.162	ng	96
17) 1,1-Dichloroethene	8.38	96	1281	0.097	ng	98
18) 2-Methyl-2-Propanol (t...	8.63	59	5302m	0.154	ng	
19) Methylene Chloride	8.58	84	1506	0.104	ng	99
20) 3-Chloro-1-propene (Al...	8.75	41	2541	0.089	ng	81
21) Trichlorotrifluoroethane	9.01	151	1041	0.080	ng	98
22) Carbon Disulfide	8.86	76	9864	0.190	ng	91
23) trans-1,2-Dichloroethene	9.87	61	1719	0.078	ng	98
24) 1,1-Dichloroethane	10.10	63	2333	0.081	ng	90
25) Methyl tert-Butyl Ether	10.27	73	3363	0.090	ng	99
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone (MEK)	10.67	72	1189	0.133	ng	# 4
28) cis-1,2-Dichloroethene	11.13	61	1921	0.087	ng	99
29) Diisopropyl Ether	11.45	87	2401	0.177	ng	# 84
30) Ethyl Acetate	11.47	61	1693	0.230	ng	87
31) n-Hexane	11.42	57	2924	0.087	ng	# 95
32) Chloroform	11.47	83	2110	0.083	ng	99
34) Tetrahydrofuran (THF)	11.93	72	1787	0.205	ng	# 80
35) Ethyl tert-Butyl Ether	12.05	87	1879	0.117	ng	92
36) 1,2-Dichloroethane	12.27	62	1666	0.076	ng	91
38) 1,1,1-Trichloroethane	12.54	97	1925	0.080	ng	95
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.03	78	5537	0.098	ng	99
42) Carbon Tetrachloride	13.19	117	1509	0.071	ng	99
43) Cyclohexane	13.32	84	4367	0.196	ng	97
44) tert-Amyl Methyl Ether	13.70	73	3756	0.100	ng	85
45) 1,2-Dichloropropane	13.89	63	1471	0.084	ng	85
46) Bromodichloromethane	14.07	83	1671	0.083	ng	94
47) Trichloroethene	14.13	130	1265	0.078	ng	98
48) 1,4-Dioxane	14.16	88	748	0.066	ng	# 34
49) 2,2,4-Trimethylpentane...	14.19	57	7623	0.090	ng	92
50) Methyl Methacrylate	14.35	100	207	0.032	ng	# 1

Data File : I:\MS16\DATA\2022_12\20\12202209.D
 Acq On : 20 Dec 2022 17:18
 Sample : 0.1ng R16122022 ICAL Std
 Misc : S35-11092201/S35-11292204 (12/29)

Vial: 15
 Operator: WA
 Inst : GCMS-16

Quant Time: Dec 20 20:41:47 2022

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Tue Dec 20 20:36:21 2022

Response via : Initial Calibration

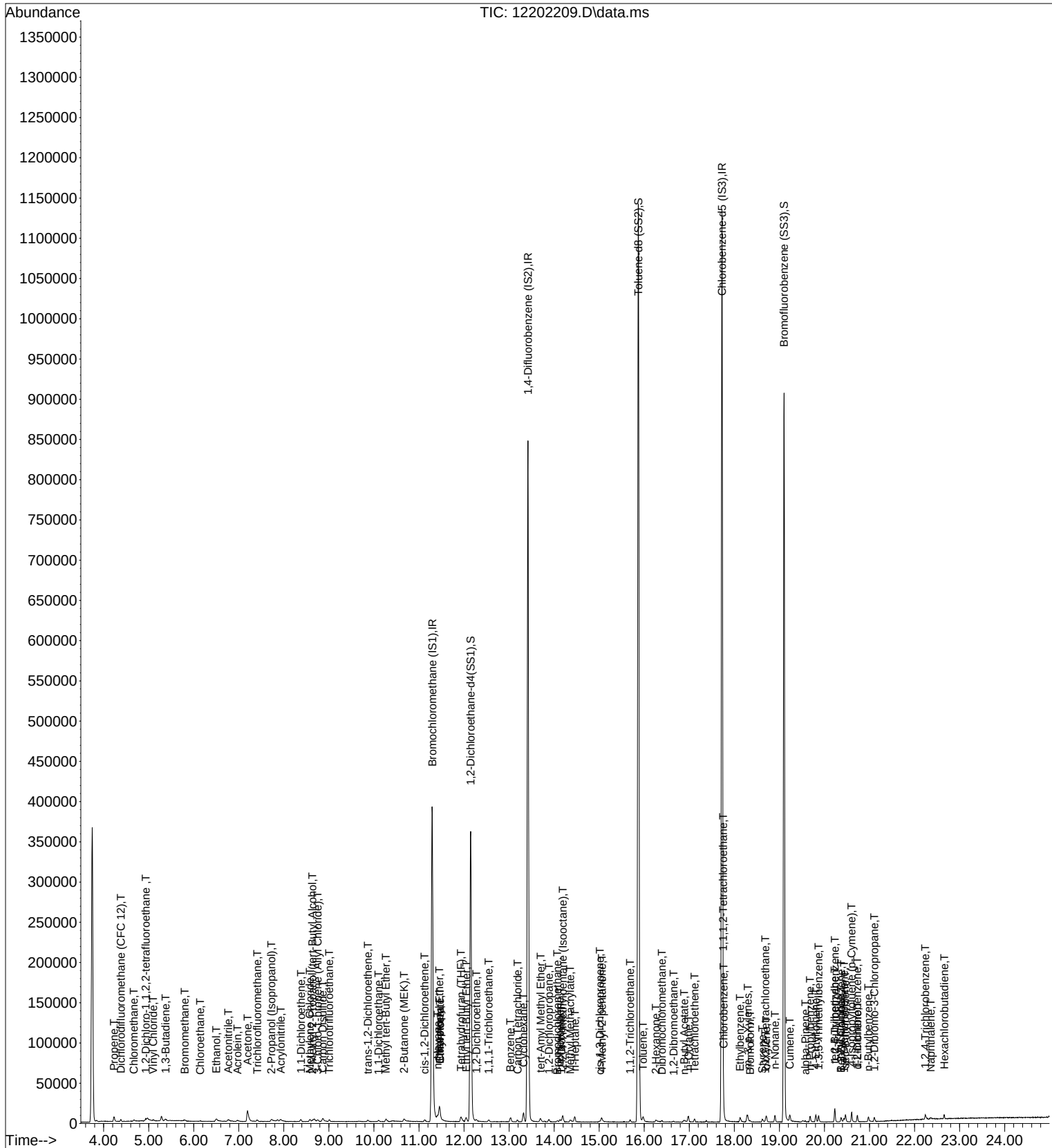
DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.46	71	1458	0.094	ng	94
52) cis-1,3-Dichloropropene	15.01	75	1334	0.066	ng	65
53) 4-Methyl-2-pentanone	15.06	58	1863	0.115	ng	# 34
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.	d	
55) 1,1,2-Trichloroethane	15.68	97	1172	0.082	ng	99
58) Toluene	15.98	91	6214	0.118	ng	89
59) 2-Hexanone	16.26	43	7080	0.199	ng	# 63
60) Dibromochloromethane	16.39	129	1264	0.085	ng	96
61) 1,2-Dibromoethane	16.65	107	1016	0.076	ng	96
62) n-Butyl Acetate	16.89	43	4158	0.106	ng	86
63) n-Octane	16.98	57	1591	0.111	ng	84
64) Tetrachloroethene	17.12	166	1325	0.091	ng	99
65) Chlorobenzene	17.76	112	3823	0.100	ng	98
66) Ethylbenzene	18.13	91	6474	0.113	ng	92
67) m- & p-Xylenes	18.30	91	10790	0.233	ng	89
68) Bromoform	18.35	173	872	0.073	ng	74
69) Styrene	18.62	104	2953	0.086	ng	88
70) o-Xylene	18.71	91	5351	0.117	ng	92
71) n-Nonane	18.90	43	3849	0.105	ng	89
72) 1,1,2,2-Tetrachloroethane	18.69	83	2015	0.090	ng	97
74) Cumene	19.23	105	6377	0.104	ng	95
75) alpha-Pinene	19.58	93	535	0.021	ng	95
76) n-Propylbenzene	19.68	91	8009	0.110	ng	92
77) 3-Ethyltoluene	20.23	105	4989	No Calib	#	
78) 4-Ethyltoluene	19.81	105	5572	0.099	ng	99
79) 1,3,5-Trimethylbenzene	19.87	105	5927	0.120	ng	86
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.23	105	4989	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.23	105	4989	0.101	ng	97
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	20.36	91	2036	0.053	ng	# 54
85) 1,3-Dichlorobenzene	20.37	146	2587	0.085	ng	97
86) 1,4-Dichlorobenzene	20.43	146	2962	0.095	ng	97
87) sec-Butylbenzene	20.46	105	6794	0.101	ng	92
88) 4-Isopropyltoluene (p-...	20.60	119	8289	0.137	ng	96
89) 1,2,3-Trimethylbenzene	20.23	105	4989	No Calib	#	
90) 1,2-Dichlorobenzene	20.73	146	2681	0.091	ng	98
91) d-Limonene	20.73	68	910	0.046	ng	83
92) 1,2-Dibromo-3-Chloropr...	21.11	157	1720	0.151	ng	# 69
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	22.24	180	3418	0.145	ng	# 94
95) Naphthalene	22.36	128	5045	0.072	ng	# 71
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	22.66	225	1337	0.091	ng	95
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	20.23	119	5346	0.104	ng	98
100) n-Butylbenzene	20.97	91	5013	0.094	ng	94
101) 1,1,1,2-Tetrachloroethane	17.75	131	1255	0.089	ng	# 89

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

Vial: 15
Operator: WA
Inst : GCMS-16

Quant Time: Dec 20 20:41:47 2022



Data File : I:\MS16\DATA\2022_12\20\12202209.D
Acq On : 20 Dec 2022 17:18
Sample : 0.1ng R16122022 ICAL Std
Misc : S35-11092201/S35-11292204 (12/29)

Vial: 15
Operator: WA
Inst : GCMS-16

Quant Time: Dec 20 20:37:08 2022

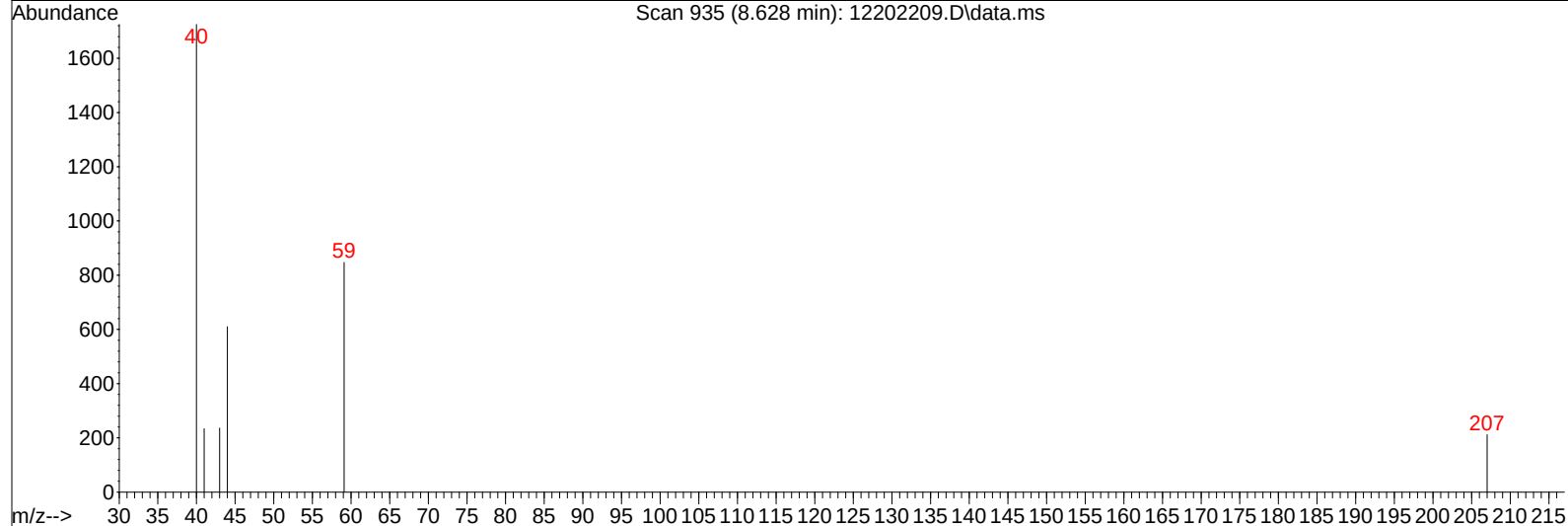
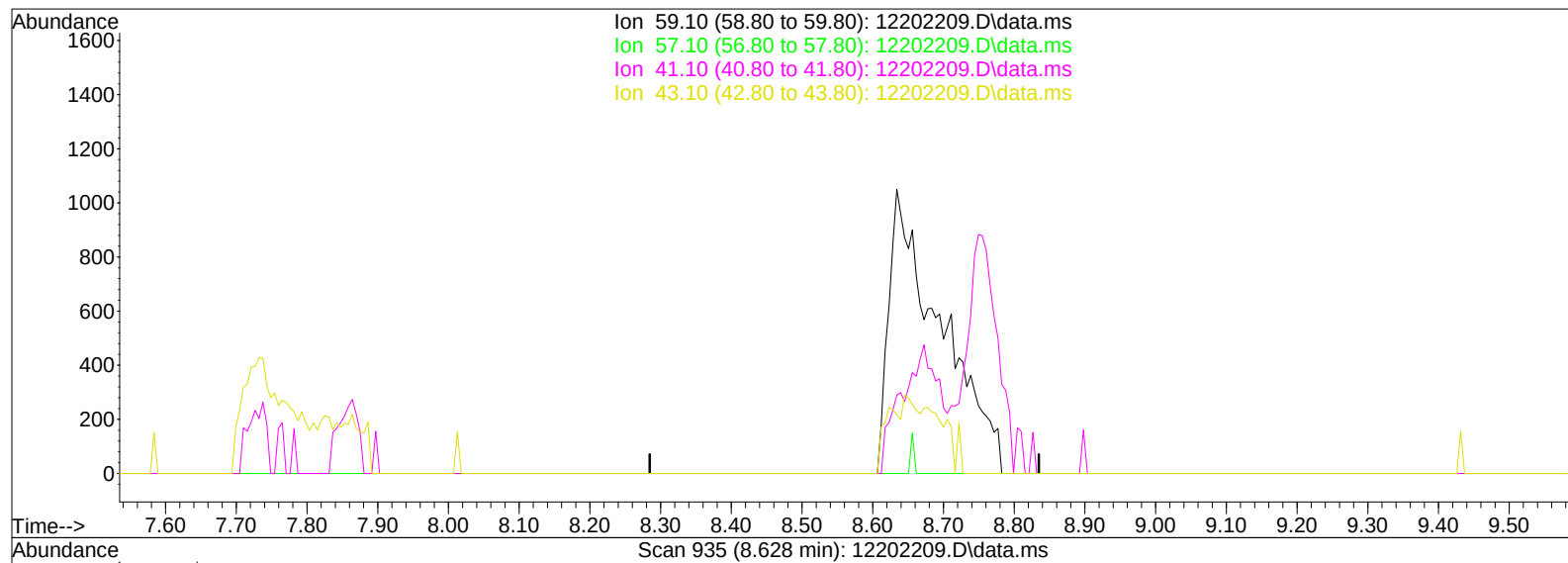
Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Tue Dec 20 20:36:21 2022

Response via : Initial Calibration

DataAcq Meth:T015.M



TIC: 12202209.D\data.ms

(18) 2-Methyl-2-Propanol (tert-Butyl Alcohol (T)

8.535min (-8.535) 0.00ng

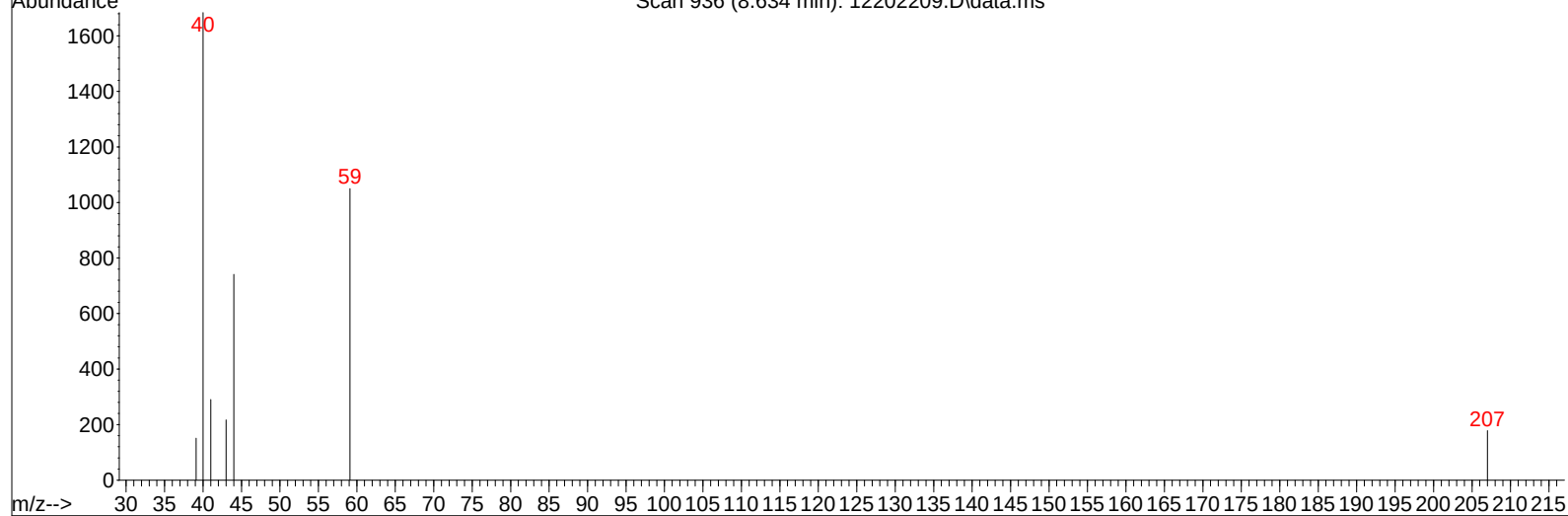
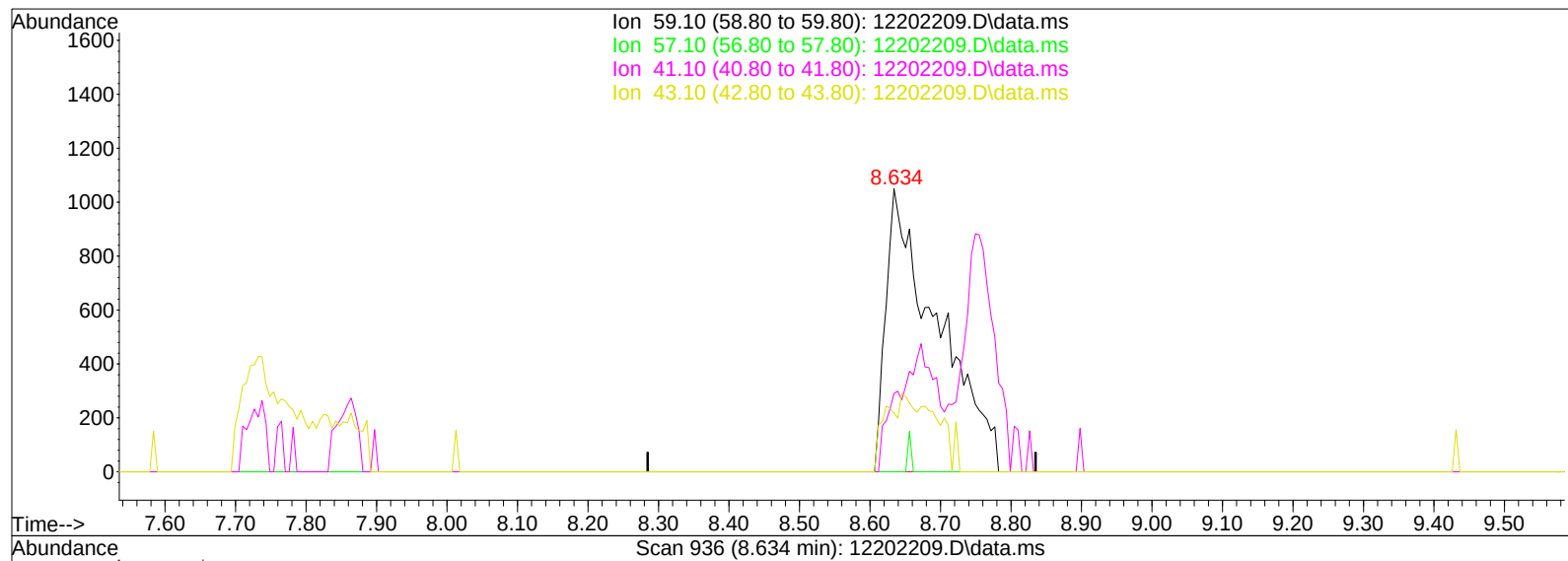
response 0

Ion	Exp%	Act%
59.10	100	0.00
57.10	10.40	0.00
41.10	26.10	0.00#
43.10	15.00	0.00

Data File : I:\MS16\DATA\2022_12\20\12202209.D
 Acq On : 20 Dec 2022 17:18
 Sample : 0.1ng R16122022 ICAL Std
 Misc : S35-11092201/S35-11292204 (12/29)

Vial: 15
 Operator: WA
 Inst : GCMS-16

Quant Time: Dec 20 20:37:08 2022
 Quant Method : I:\MS16\METHODS\R16122022.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Tue Dec 20 20:36:21 2022
 Response via : Initial Calibration
 DataAcq Meth:T015.M



TIC: 12202209.D\data.ms

(18) 2-Methyl-2-Propanol (tert-Butyl Alcohol) (T)

8.634min (+0.099) 0.15ng m

response 5302

MP

Ion	Exp%	Act%
59.10	100	100
57.10	10.40	0.00
41.10	26.10	0.00#
43.10	15.00	0.00

107 12/20/22

Data File : I:\MS16\DATA\2022_12\20\12202210.D
 Acq On : 20 Dec 2022 17:52
 Sample : 0.2ng R16122022 ICAL Std
 Misc : S35-11092201/S35-11292204 (12/29)

Vial: 15
 Operator: WA
 Inst : GCMS-16

Quant Time: Dec 20 20:43:16 2022

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Tue Dec 20 20:36:41 2022

Response via : Initial Calibration

DataAcq Meth:T015.M

12/21/22

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.29	130	172486	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.42	114	794758	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.72	54	163494	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.15	65	289732	12.015	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	96.16%	
57) Toluene-d8 (SS2)	15.87	98	890222	15.166	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	121.36%	
73) Bromofluorobenzene (SS3)	19.10	174	277204	14.642	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	117.12%	

Target Compounds

						Qvalue
2) Propene	4.22	42	4708	0.152	ng	98
3) Dichlorodifluoromethan...	4.37	85	5385	0.183	ng	97
4) Chloromethane	4.66	50	4858	0.157	ng	96
5) 1,2-Dichloro-1,1,2,2-t...	4.93	135	2747	0.169	ng	96
6) Vinyl Chloride	5.09	62	4080	0.156	ng	93
7) 1,3-Butadiene	5.36	54	3229	0.136	ng	# 85
8) Bromomethane	5.79	94	2121	0.175	ng	93
9) Chloroethane	6.13	64	2060	0.175	ng	91
10) Ethanol	6.48	45	12443	0.690	ng	88
11) Acetonitrile	6.75	41	7788	0.168	ng	73
12) Acrolein	6.96	56	4458	0.354	ng	98
13) Acetone	7.18	58	14320	0.951	ng	92
14) Trichlorofluoromethane	7.40	101	4782	0.180	ng	96
15) 2-Propanol (Isopropanol)	7.70	45	18069	0.384	ng	85
16) Acrylonitrile	7.92	53	8924	0.322	ng	95
17) 1,1-Dichloroethene	8.37	96	2841	0.216	ng	96
18) 2-Methyl-2-Propanol (t...	8.62	59	11000	0.321	ng	# 60
19) Methylene Chloride	8.58	84	2787	0.194	ng	92
20) 3-Chloro-1-propene (Al...	8.75	41	5202	0.184	ng	84
21) Trichlorotrifluoroethane	9.01	151	2431	0.188	ng	98
22) Carbon Disulfide	8.86	76	20450	0.395	ng	95
23) trans-1,2-Dichloroethene	9.85	61	3922	0.179	ng	93
24) 1,1-Dichloroethane	10.11	63	5153	0.180	ng	96
25) Methyl tert-Butyl Ether	10.25	73	7156	0.194	ng	98
26) Vinyl Acetate	10.40	86	388	0.150	ng	# 1
27) 2-Butanone (MEK)	10.65	72	2954	0.333	ng	# 58
28) cis-1,2-Dichloroethene	11.12	61	4037	0.184	ng	99
29) Diisopropyl Ether	11.44	87	5088	0.377	ng	# 92
30) Ethyl Acetate	11.45	61	4143	0.565	ng	93
31) n-Hexane	11.41	57	6035	0.180	ng	98
32) Chloroform	11.46	83	4533	0.180	ng	96
34) Tetrahydrofuran (THF)	11.92	72	3695	0.426	ng	# 89
35) Ethyl tert-Butyl Ether	12.04	87	4338	0.272	ng	96
36) 1,2-Dichloroethane	12.27	62	3747	0.173	ng	95
38) 1,1,1-Trichloroethane	12.55	97	4202	0.176	ng	98
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.03	78	11209	0.202	ng	98
42) Carbon Tetrachloride	13.19	117	3349	0.160	ng	99
43) Cyclohexane	13.32	84	9254	0.421	ng	97
44) tert-Amyl Methyl Ether	13.69	73	8471	0.229	ng	94
45) 1,2-Dichloropropane	13.89	63	3017	0.175	ng	94
46) Bromodichloromethane	14.07	83	3466	0.176	ng	95
47) Trichloroethene	14.12	130	2721	0.170	ng	95
48) 1,4-Dioxane	14.14	88	1771	0.158	ng	79
49) 2,2,4-Trimethylpentane...	14.19	57	15514	0.186	ng	95
50) Methyl Methacrylate	14.35	100	1358	0.216	ng	# 65

Data File : I:\MS16\DATA\2022_12\20\12202210.D
 Acq On : 20 Dec 2022 17:52
 Sample : 0.2ng R16122022 ICAL Std
 Misc : S35-11092201/S35-11292204 (12/29)

Vial: 15
 Operator: WA
 Inst : GCMS-16

Quant Time: Dec 20 20:43:16 2022

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Tue Dec 20 20:36:41 2022

Response via : Initial Calibration

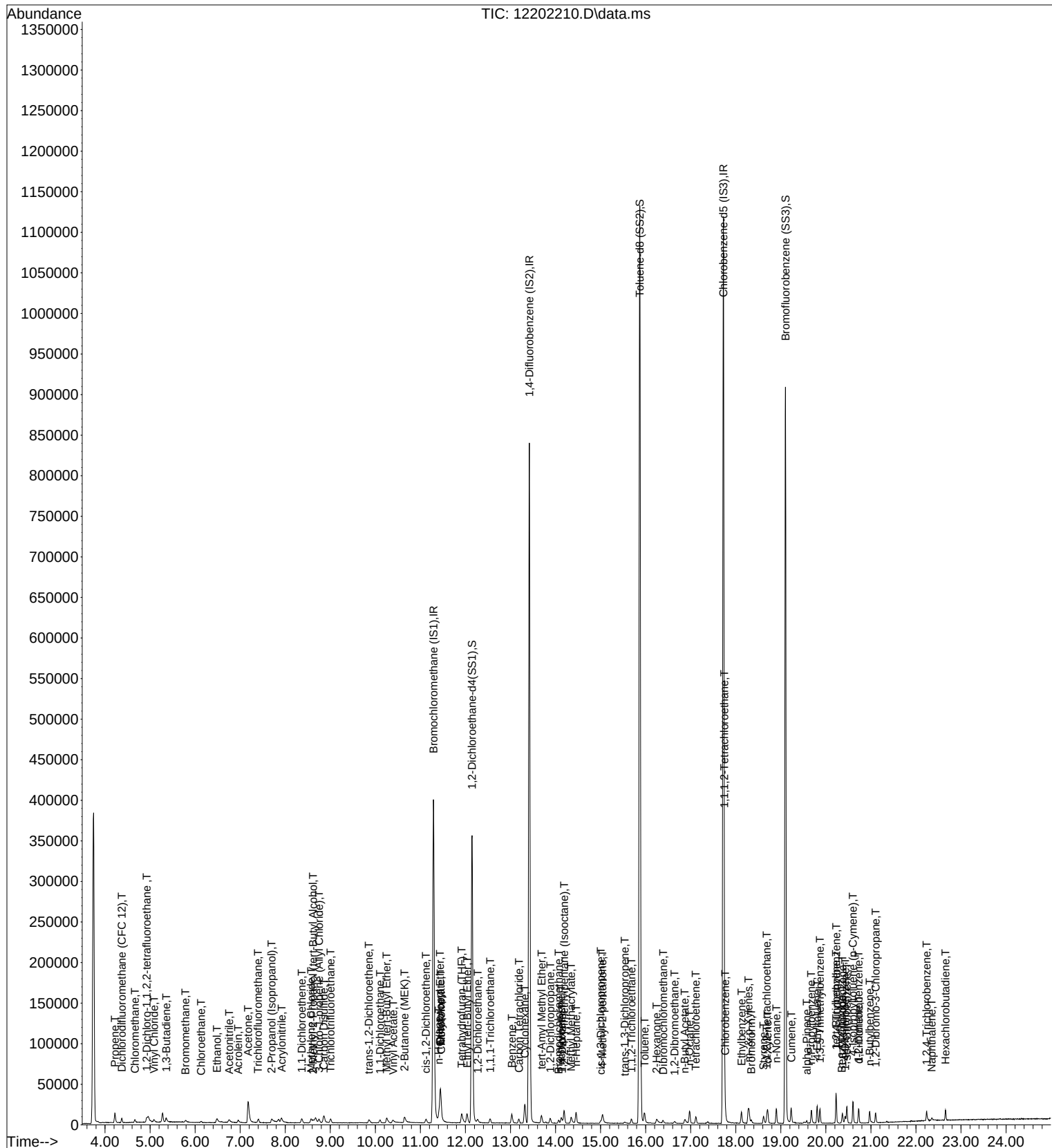
DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.46	71	3115	0.204	ng	96
52) cis-1,3-Dichloropropene	15.01	75	3356	0.167	ng	96
53) 4-Methyl-2-pentanone	15.04	58	3955	0.248	ng	# 66
54) trans-1,3-Dichloropropene	15.54	75	1887	0.092	ng	74
55) 1,1,2-Trichloroethane	15.68	97	2542	0.180	ng	99
58) Toluene	15.98	91	12137	0.232	ng	98
59) 2-Hexanone	16.24	43	7793	0.221	ng	98
60) Dibromochloromethane	16.39	129	2727	0.185	ng	100
61) 1,2-Dibromoethane	16.64	107	2513	0.189	ng	96
62) n-Butyl Acetate	16.87	43	7235	0.187	ng	96
63) n-Octane	16.97	57	3032	0.213	ng	98
64) Tetrachloroethene	17.11	166	2864	0.199	ng	97
65) Chlorobenzene	17.77	112	8076	0.213	ng	98
66) Ethylbenzene	18.13	91	13299	0.234	ng	94
67) m- & p-Xylenes	18.28	91	21705	0.473	ng	92
68) Bromoform	18.35	173	2063	0.173	ng	97
69) Styrene	18.61	104	6106	0.180	ng	98
70) o-Xylene	18.71	91	10370	0.228	ng	97
71) n-Nonane	18.90	43	7921	0.219	ng	91
72) 1,1,2,2-Tetrachloroethane	18.69	83	4583	0.207	ng	97
74) Cumene	19.23	105	13284	0.219	ng	96
75) alpha-Pinene	19.58	93	1531	0.060	ng	93
76) n-Propylbenzene	19.68	91	16244	0.226	ng	95
77) 3-Ethyltoluene	0.00	105	0	N.D.	d	
78) 4-Ethyltoluene	19.81	105	12236	0.219	ng	96
79) 1,3,5-Trimethylbenzene	19.87	105	11590	0.236	ng	91
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.	d	
82) 1,2,4-Trimethylbenzene	20.23	105	9958	0.203	ng	100
83) n-Decane	0.00	58	0	N.D.	d	
84) Benzyl Chloride	20.35	91	3514	0.093	ng	80
85) 1,3-Dichlorobenzene	20.37	146	5163	0.170	ng	99
86) 1,4-Dichlorobenzene	20.43	146	5407	0.175	ng	100
87) sec-Butylbenzene	20.47	105	14408	0.216	ng	94
88) 4-Isopropyltoluene (p-...	20.60	119	17132	0.285	ng	97
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.	d	
90) 1,2-Dichlorobenzene	20.73	146	5500	0.187	ng	99
91) d-Limonene	20.73	68	1829	0.093	ng	99
92) 1,2-Dibromo-3-Chloropr...	21.11	157	3688	0.327	ng	# 73
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	22.24	180	5562	0.239	ng	97
95) Naphthalene	22.35	128	7041	0.101	ng	79
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	22.66	225	2718	0.187	ng	98
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	20.23	119	11022	0.216	ng	98
100) n-Butylbenzene	20.97	91	10447	0.198	ng	97
101) 1,1,1,2-Tetrachloroethane	17.75	131	2739	0.196	ng	97

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

Vial: 15
Operator: WA
Inst : GCMS-16

Quant Time: Dec 20 20:43:16 2022



Data File : I:\MS16\DATA\2022_12\20\12202211.D
 Acq On : 20 Dec 2022 18:26
 Sample : 0.5ng R16122022 ICAL Std
 Misc : S35-11092201/S35-12192205 (1/18)

Vial: 14
 Operator: WA
 Inst : GCMS-16

Quant Time: Dec 20 20:46:00 2022

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Tue Dec 20 20:36:41 2022

Response via : Initial Calibration

DataAcq Meth:T015.M

12/21/22

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.29	130	164757	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.42	114	770877	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.72	54	158577	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.15	65	283309	12.300	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	98.40%	
57) Toluene-d8 (SS2)	15.87	98	861771	15.137	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	121.12%	
73) Bromofluorobenzene (SS3)	19.10	174	263473	14.348	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	114.80%	

Target Compounds

						Qvalue
2) Propene	4.21	42	11611	0.393	ng	97
3) Dichlorodifluoromethan...	4.36	85	14291	0.507	ng	98
4) Chloromethane	4.65	50	13717	0.464	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	4.92	135	7716	0.496	ng	97
6) Vinyl Chloride	5.08	62	11690	0.467	ng	98
7) 1,3-Butadiene	5.35	54	9978	0.439	ng	95
8) Bromomethane	5.78	94	5820	0.504	ng	95
9) Chloroethane	6.13	64	5912	0.525	ng	99
10) Ethanol	6.47	45	29269	1.699	ng	93
11) Acetonitrile	6.74	41	18111	0.408	ng	91
12) Acrolein	6.95	56	11729	0.976	ng	100
13) Acetone	7.16	58	32518	2.260	ng	88
14) Trichlorofluoromethane	7.40	101	12897	0.508	ng	99
15) 2-Propanol (Isopropanol)	7.67	45	50668	1.126	ng	92
16) Acrylonitrile	7.91	53	24285	0.917	ng	97
17) 1,1-Dichloroethene	8.36	96	7709	0.615	ng	97
18) 2-Methyl-2-Propanol (t...	8.59	59	31571	0.964	ng	88
19) Methylene Chloride	8.57	84	7372	0.537	ng	92
20) 3-Chloro-1-propene (Al...	8.74	41	12204	0.452	ng	99
21) Trichlorotrifluoroethane	9.00	151	6564	0.533	ng	99
22) Carbon Disulfide	8.85	76	54875	1.111	ng	98
23) trans-1,2-Dichloroethene	9.86	61	11708	0.559	ng	98
24) 1,1-Dichloroethane	10.10	63	13945	0.511	ng	98
25) Methyl tert-Butyl Ether	10.23	73	19548	0.554	ng	98
26) Vinyl Acetate	10.38	86	2336	0.947	ng	# 34
27) 2-Butanone (MEK)	10.63	72	9207	1.087	ng	# 90
28) cis-1,2-Dichloroethene	11.12	61	11163	0.531	ng	97
29) Diisopropyl Ether	11.43	87	14746	1.144	ng	# 96
30) Ethyl Acetate	11.44	61	12274	1.753	ng	99
31) n-Hexane	11.41	57	16666	0.521	ng	99
32) Chloroform	11.46	83	12557	0.523	ng	98
34) Tetrahydrofuran (THF)	11.90	72	9502	1.147	ng	93
35) Ethyl tert-Butyl Ether	12.03	87	11633	0.763	ng	95
36) 1,2-Dichloroethane	12.27	62	10552	0.509	ng	99
38) 1,1,1-Trichloroethane	12.55	97	11352	0.491	ng	99
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.03	78	30036	0.558	ng	100
42) Carbon Tetrachloride	13.19	117	9239	0.455	ng	99
43) Cyclohexane	13.32	84	25569	1.200	ng	98
44) tert-Amyl Methyl Ether	13.68	73	21794	0.608	ng	96
45) 1,2-Dichloropropane	13.88	63	8496	0.508	ng	99
46) Bromodichloromethane	14.07	83	10133	0.529	ng	97
47) Trichloroethene	14.13	130	8054	0.520	ng	98
48) 1,4-Dioxane	14.13	88	5648	0.520	ng	87
49) 2,2,4-Trimethylpentane...	14.19	57	42341	0.524	ng	96
50) Methyl Methacrylate	14.34	100	5361	0.877	ng	# 84

Data File : I:\MS16\DATA\2022_12\20\12202211.D
 Acq On : 20 Dec 2022 18:26
 Sample : 0.5ng R16122022 ICAL Std
 Misc : S35-11092201/S35-12192205 (1/18)

Vial: 14
 Operator: WA
 Inst : GCMS-16

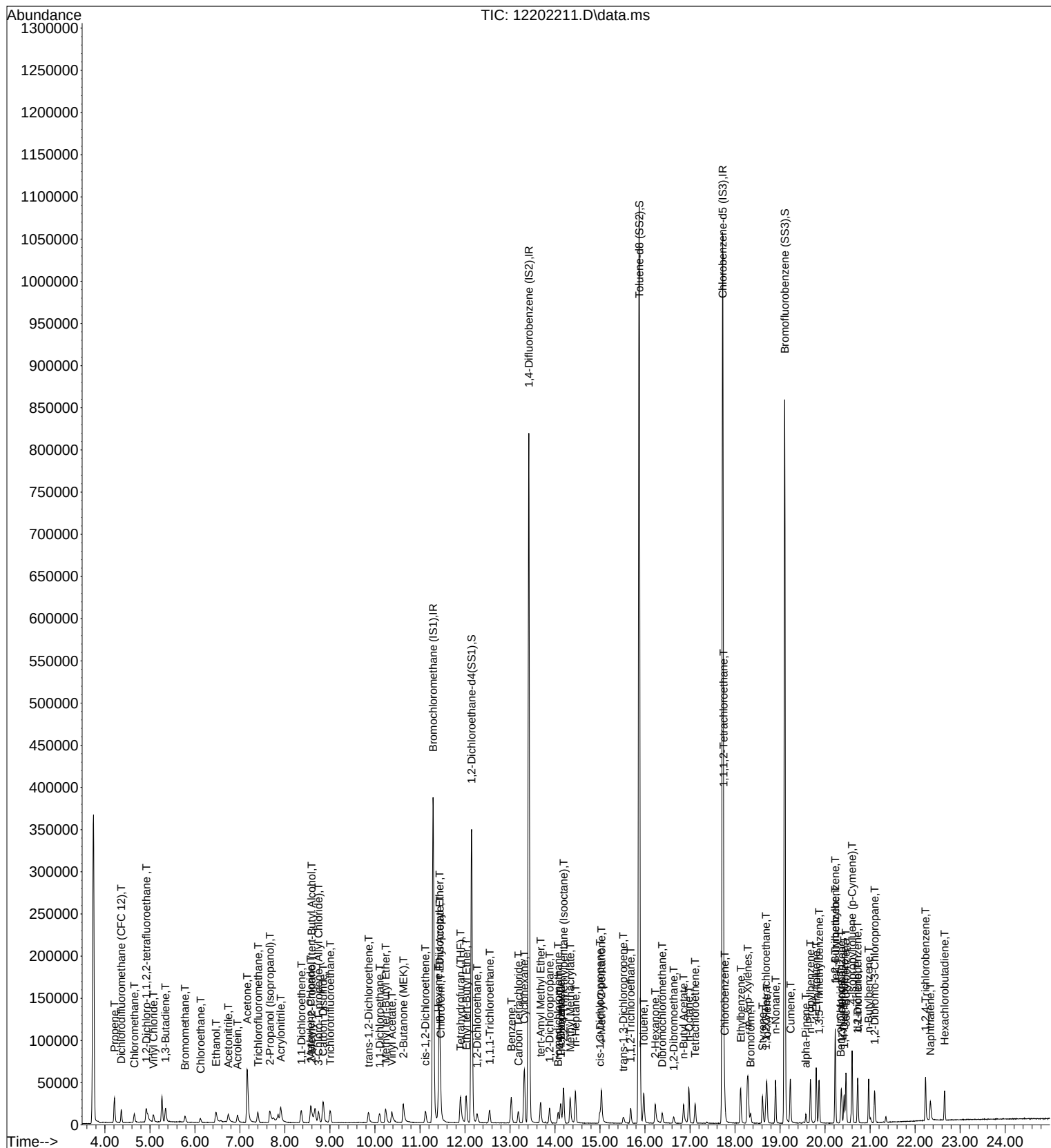
Quant Time: Dec 20 20:46:00 2022
 Quant Method : I:\MS16\METHODS\R16122022.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Tue Dec 20 20:36:41 2022
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.46	71	8942	0.605	ng	97
52) cis-1,3-Dichloropropene	15.00	75	10720	0.552	ng	98
53) 4-Methyl-2-pentanone	15.03	58	12351	0.799	ng	82
54) trans-1,3-Dichloropropene	15.52	75	7085	0.355	ng	92
55) 1,1,2-Trichloroethane	15.68	97	7264	0.531	ng	99
58) Toluene	15.97	91	32466	0.638	ng	98
59) 2-Hexanone	16.23	43	28051	0.822	ng	93
60) Dibromochloromethane	16.38	129	8088	0.566	ng	99
61) 1,2-Dibromoethane	16.64	107	7460	0.578	ng	99
62) n-Butyl Acetate	16.86	43	24712	0.657	ng	98
63) n-Octane	16.97	57	8636	0.624	ng	96
64) Tetrachloroethene	17.11	166	8550	0.611	ng	99
65) Chlorobenzene	17.77	112	21318	0.580	ng	100
66) Ethylbenzene	18.13	91	36596	0.664	ng	97
67) m- & p-Xylenes	18.28	91	57709	1.296	ng	97
68) Bromoform	18.35	173	6008	0.521	ng	96
69) Styrene	18.61	104	18826	0.572	ng	98
70) o-Xylene	18.71	91	28537	0.648	ng	97
71) n-Nonane	18.90	43	21710	0.618	ng	94
72) 1,1,2,2-Tetrachloroethane	18.69	83	12420	0.579	ng	98
74) Cumene	19.23	105	36361	0.619	ng	99
75) alpha-Pinene	19.57	93	4162	0.168	ng	# 62
76) n-Propylbenzene	19.68	91	44116	0.632	ng	98
77) 3-Ethyltoluene	0.00	105	0	N.D.	d	
78) 4-Ethyltoluene	19.80	105	34500	0.638	ng	99
79) 1,3,5-Trimethylbenzene	19.87	105	31596	0.663	ng	95
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.	d	
82) 1,2,4-Trimethylbenzene	20.23	105	29229	0.613	ng	98
83) n-Decane	0.00	58	0	N.D.	d	
84) Benzyl Chloride	20.35	91	12621	0.344	ng	94
85) 1,3-Dichlorobenzene	20.36	146	15775	0.537	ng	99
86) 1,4-Dichlorobenzene	20.42	146	16656	0.556	ng	100
87) sec-Butylbenzene	20.46	105	41123	0.634	ng	96
88) 4-Isopropyltoluene (p-...	20.60	119	49434	0.848	ng	98
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.	d	
90) 1,2-Dichlorobenzene	20.72	146	15848	0.556	ng	99
91) d-Limonene	20.73	68	5321	0.279	ng	98
92) 1,2-Dibromo-3-Chloropr...	21.10	157	11021	1.008	ng	# 79
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	22.23	180	18973	0.839	ng	99
95) Naphthalene	22.34	128	27493	0.407	ng	95
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	22.66	225	7104	0.504	ng	100
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	20.23	119	30771	0.621	ng	100
100) n-Butylbenzene	20.97	91	31695	0.620	ng	97
101) 1,1,1,2-Tetrachloroethane	17.75	131	7507	0.555	ng	100

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

Vial: 14
Operator: WA
Inst : GCMS-16

Quant Time: Dec 20 20:46:00 2022



Data File : I:\MS16\DATA\2022_12\20\12202212.D
 Acq On : 20 Dec 2022 19:00
 Sample : 1.0ng R16122022 ICAL Std
 Misc : S35-11092201/S35-12192205 (1/18)

Vial: 14
 Operator: WA
 Inst : GCMS-16

Quant Time: Dec 20 20:47:48 2022

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Tue Dec 20 20:36:41 2022

Response via : Initial Calibration

DataAcq Meth:T015.M

WA 12/21/22

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.29	130	166655	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.42	114	764819	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.72	54	157976	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.15	65	280914	12.057	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	96.48%	
57) Toluene-d8 (SS2)	15.87	98	844540	14.891	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	119.12%	
73) Bromofluorobenzene (SS3)	19.10	174	263078	14.381	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	115.04%	

Target Compounds

						Qvalue
2) Propene	4.21	42	22504	0.752	ng	97
3) Dichlorodifluoromethan...	4.36	85	27517	0.965	ng	100
4) Chloromethane	4.65	50	26311	0.879	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	14739	0.936	ng	99
6) Vinyl Chloride	5.07	62	22846	0.903	ng	98
7) 1,3-Butadiene	5.34	54	19721	0.857	ng	95
8) Bromomethane	5.78	94	11355	0.972	ng	97
9) Chloroethane	6.11	64	11134	0.978	ng	98
10) Ethanol	6.46	45	55016	3.157	ng	100
11) Acetonitrile	6.73	41	34219	0.763	ng	91
12) Acrolein	6.93	56	22477	1.848	ng	100
13) Acetone	7.15	58	63336	4.352	ng	88
14) Trichlorofluoromethane	7.39	101	25326	0.986	ng	99
15) 2-Propanol (Isopropanol)	7.65	45	95920	2.108	ng	94
16) Acrylonitrile	7.90	53	48991	1.828	ng	97
17) 1,1-Dichloroethene	8.36	96	14946	1.178	ng	97
18) 2-Methyl-2-Propanol (t...	8.60	59	64732	1.954	ng	# 72
19) Methylene Chloride	8.57	84	14725	1.061	ng	94
20) 3-Chloro-1-propene (Al...	8.74	41	27131	0.992	ng	94
21) Trichlorotrifluoroethane	9.00	151	13040	1.046	ng	98
22) Carbon Disulfide	8.84	76	107632	2.154	ng	99
23) trans-1,2-Dichloroethene	9.85	61	23847	1.125	ng	99
24) 1,1-Dichloroethane	10.10	63	28515	1.033	ng	98
25) Methyl tert-Butyl Ether	10.23	73	39493	1.106	ng	99
26) Vinyl Acetate	10.37	86	5542	2.221	ng	# 67
27) 2-Butanone (MEK)	10.62	72	19304	2.252	ng	93
28) cis-1,2-Dichloroethene	11.12	61	23308	1.097	ng	98
29) Diisopropyl Ether	11.43	87	28622	2.194	ng	# 92
30) Ethyl Acetate	11.43	61	26073	3.682	ng	98
31) n-Hexane	11.41	57	32361	0.999	ng	99
32) Chloroform	11.46	83	25392	1.045	ng	98
34) Tetrahydrofuran (THF)	11.89	72	18985	2.267	ng	96
35) Ethyl tert-Butyl Ether	12.02	87	23912	1.551	ng	96
36) 1,2-Dichloroethane	12.27	62	20808	0.993	ng	97
38) 1,1,1-Trichloroethane	12.55	97	22712	0.990	ng	99
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.03	78	59375	1.112	ng	99
42) Carbon Tetrachloride	13.19	117	18872	0.938	ng	99
43) Cyclohexane	13.32	84	50073	2.368	ng	98
44) tert-Amyl Methyl Ether	13.67	73	45752	1.286	ng	97
45) 1,2-Dichloropropane	13.87	63	16518	0.995	ng	99
46) Bromodichloromethane	14.07	83	19527	1.028	ng	99
47) Trichloroethene	14.12	130	15939	1.038	ng	99
48) 1,4-Dioxane	14.12	88	11080	1.027	ng	97
49) 2,2,4-Trimethylpentane...	14.19	57	82708	1.031	ng	97
50) Methyl Methacrylate	14.34	100	11463	1.890	ng	93

Data File : I:\MS16\DATA\2022_12\20\12202212.D
 Acq On : 20 Dec 2022 19:00
 Sample : 1.0ng R16122022 ICAL Std
 Misc : S35-11092201/S35-12192205 (1/18)

Vial: 14
 Operator: WA
 Inst : GCMS-16

Quant Time: Dec 20 20:47:48 2022

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Tue Dec 20 20:36:41 2022

Response via : Initial Calibration

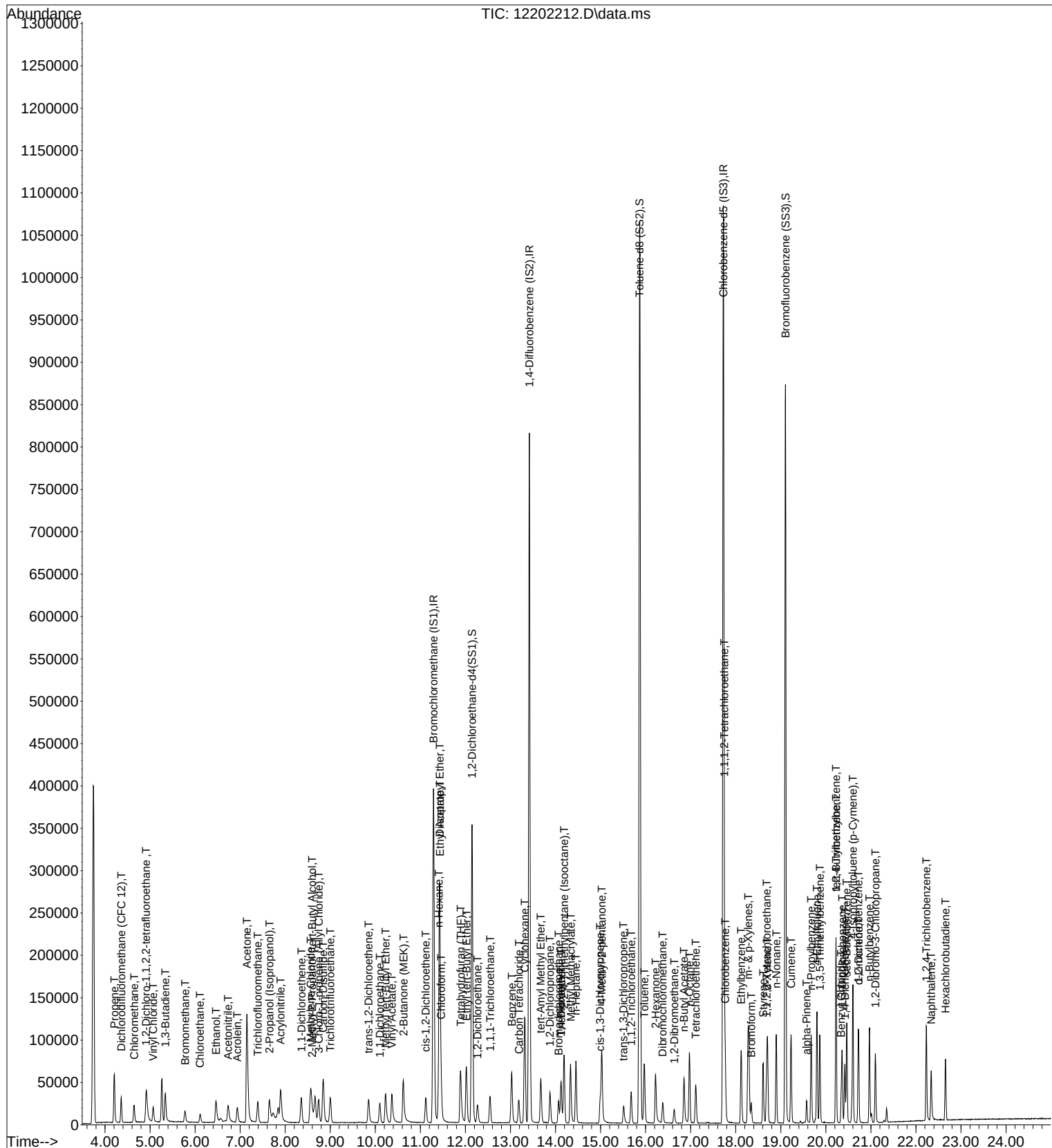
DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.45	71	17446	1.190	ng	98
52) cis-1,3-Dichloropropene	14.99	75	21968	1.139	ng	97
53) 4-Methyl-2-pentanone	15.02	58	26239	1.710	ng	87
54) trans-1,3-Dichloropropene	15.51	75	16183	0.817	ng	96
55) 1,1,2-Trichloroethane	15.68	97	14308	1.054	ng	98
58) Toluene	15.97	91	63273	1.249	ng	98
59) 2-Hexanone	16.22	43	62130	1.827	ng	91
60) Dibromochloromethane	16.38	129	16248	1.142	ng	99
61) 1,2-Dibromoethane	16.64	107	15499	1.206	ng	98
62) n-Butyl Acetate	16.85	43	55170	1.472	ng	96
63) n-Octane	16.97	57	16912	1.227	ng	97
64) Tetrachloroethene	17.11	166	16212	1.164	ng	98
65) Chlorobenzene	17.77	112	42616	1.163	ng	99
66) Ethylbenzene	18.12	91	72394	1.319	ng	98
67) m- & p-Xylenes	18.28	91	114398	2.578	ng	98
68) Bromoform	18.35	173	12268	1.068	ng	99
69) Styrene	18.61	104	39931	1.218	ng	99
70) o-Xylene	18.70	91	57457	1.309	ng	97
71) n-Nonane	18.90	43	42920	1.227	ng	94
72) 1,1,2,2-Tetrachloroethane	18.69	83	25147	1.176	ng	100
74) Cumene	19.23	105	72123	1.232	ng	100
75) alpha-Pinene	19.57	93	9662	0.392	ng	67
76) n-Propylbenzene	19.68	91	86810	1.249	ng	99
77) 3-Ethyltoluene	0.00	105	0	N.D.	d	
78) 4-Ethyltoluene	19.80	105	69591	1.291	ng	100
79) 1,3,5-Trimethylbenzene	19.87	105	60613	1.277	ng	97
80) alpha-Methylstyrene	0.00	118	0	N.D.	d	
81) 2-Ethyltoluene	0.00	105	0	N.D.	d	
82) 1,2,4-Trimethylbenzene	20.23	105	58402	1.230	ng	99
83) n-Decane	0.00	58	0	N.D.	d	
84) Benzyl Chloride	20.34	91	28986	0.794	ng	97
85) 1,3-Dichlorobenzene	20.36	146	31033	1.060	ng	98
86) 1,4-Dichlorobenzene	20.42	146	32709	1.096	ng	99
87) sec-Butylbenzene	20.46	105	80229	1.242	ng	98
88) 4-Isopropyltoluene (p-...	20.60	119	93072	1.603	ng	98
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.	d	
90) 1,2-Dichlorobenzene	20.72	146	31437	1.108	ng	100
91) d-Limonene	20.73	68	10999	0.579	ng	98
92) 1,2-Dibromo-3-Chloropr...	21.10	157	22808	2.095	ng	83
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	22.23	180	39424	1.750	ng	99
95) Naphthalene	22.34	128	56017	0.832	ng	97
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	22.66	225	13989	0.996	ng	99
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	20.23	119	61122	1.239	ng	100
100) n-Butylbenzene	20.97	91	65198	1.280	ng	97
101) 1,1,1,2-Tetrachloroethane	17.75	131	15026	1.115	ng	99

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

Vial: 14
Operator: WA
Inst : GCMS-16

Quant Time: Dec 20 20:47:48 2022



Data File : I:\MS16\DATA\2022_12\20\12202219.D
 Acq On : 20 Dec 2022 22:58
 Sample : 5ng R16122022 ICAL Std
 Misc : S35-11092201/S35-12162204 (1/15)

Vial: 2
 Operator: WA
 Inst : GCMS-16

Quant Time: Dec 21 02:39:02 2022

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Tue Dec 20 20:36:41 2022

Response via : Initial Calibration

DataAcq Meth:T015.M

12/21/22

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.30	130	180971	12.500	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	13.42	114	817599	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	17.72	54	162106	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.15	65	298321	11.791	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	94.32%	
57) Toluene-d8 (SS2)	15.87	98	900990	15.481	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	123.84%	
73) Bromofluorobenzene (SS3)	19.10	174	276771	14.744	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	117.92%	

Target Compounds

						Qvalue
2) Propene	4.19	42	116568	3.588	ng	99
3) Dichlorodifluoromethan...	4.35	85	151650	4.899	ng	100
4) Chloromethane	4.64	50	147177	4.528	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	85054	4.976	ng	99
6) Vinyl Chloride	5.06	62	131618	4.791	ng	100
7) 1,3-Butadiene	5.33	54	118585	4.746	ng	99
8) Bromomethane	5.77	94	66518	5.244	ng	100
9) Chloroethane	6.12	64	64155	5.187	ng	100
10) Ethanol	6.48	45	304936	16.115	ng	100
11) Acetonitrile	6.74	41	193066	3.963	ng	99
12) Acrolein	6.93	56	123101	9.323	ng	100
13) Acetone	7.14	58	352352	22.296	ng	96
14) Trichlorofluoromethane	7.40	101	138937	4.980	ng	99
15) 2-Propanol (Isopropanol)	7.64	45	550345	11.138	ng	99
16) Acrylonitrile	7.90	53	273497	9.400	ng	98
17) 1,1-Dichloroethene	8.36	96	80842	5.868	ng	98
18) 2-Methyl-2-Propanol (t...	8.52	59	414039	11.508	ng	96
19) Methylene Chloride	8.58	84	79878	5.302	ng	99
20) 3-Chloro-1-propene (Al...	8.75	41	148815	5.012	ng	99
21) Trichlorotrifluoroethane	9.00	151	72087	5.326	ng	100
22) Carbon Disulfide	8.85	76	575729	10.611	ng	100
23) trans-1,2-Dichloroethene	9.85	61	130862	5.685	ng	99
24) 1,1-Dichloroethane	10.11	63	154682	5.159	ng	100
25) Methyl tert-Butyl Ether	10.22	73	225319	5.809	ng	100
26) Vinyl Acetate	10.37	86	45593	16.827	ng	# 95
27) 2-Butanone (MEK)	10.61	72	118061	12.685	ng	99
28) cis-1,2-Dichloroethene	11.12	61	126592	5.485	ng	100
29) Diisopropyl Ether	11.42	87	162024	11.440	ng	# 93
30) Ethyl Acetate	11.43	61	160471	20.869	ng	98
31) n-Hexane	11.41	57	175896	5.002	ng	99
32) Chloroform	11.47	83	137641	5.216	ng	100
34) Tetrahydrofuran (THF)	11.88	72	105898	11.642	ng	99
35) Ethyl tert-Butyl Ether	12.02	87	145175	8.671	ng	99
36) 1,2-Dichloroethane	12.27	62	115528	5.075	ng	100
38) 1,1,1-Trichloroethane	12.55	97	125573	5.118	ng	100
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.03	78	326294	5.718	ng	100
42) Carbon Tetrachloride	13.19	117	107351	4.989	ng	100
43) Cyclohexane	13.32	84	270709	11.974	ng	99
44) tert-Amyl Methyl Ether	13.67	73	278808	7.332	ng	99
45) 1,2-Dichloropropane	13.88	63	89212	5.026	ng	99
46) Bromodichloromethane	14.07	83	109925	5.415	ng	100
47) Trichloroethene	14.12	130	90132	5.489	ng	100
48) 1,4-Dioxane	14.10	88	64746	5.615	ng	99
49) 2,2,4-Trimethylpentane...	14.19	57	441945	5.153	ng	98
50) Methyl Methacrylate	14.33	100	73686	11.368	ng	100

Data File : I:\MS16\DATA\2022_12\20\12202219.D
 Acq On : 20 Dec 2022 22:58
 Sample : 5ng R16122022 ICAL Std
 Misc : S35-11092201/S35-12162204 (1/15)

Vial: 2
 Operator: WA
 Inst : GCMS-16

Quant Time: Dec 21 02:39:02 2022

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Tue Dec 20 20:36:41 2022

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.45	71	96557	6.159	ng	99
52) cis-1,3-Dichloropropene	14.99	75	134897	6.544	ng	100
53) 4-Methyl-2-pentanone	15.02	58	170799	10.413	ng	97
54) trans-1,3-Dichloropropene	15.50	75	112421	5.310	ng	100
55) 1,1,2-Trichloroethane	15.68	97	79340	5.466	ng	100
58) Toluene	15.97	91	351844	6.769	ng	100
59) 2-Hexanone	16.21	43	426125	12.212	ng	97
60) Dibromochloromethane	16.38	129	94817	6.492	ng	100
61) 1,2-Dibromoethane	16.63	107	89174	6.760	ng	100
62) n-Butyl Acetate	16.84	43	431028	11.208	ng	99
63) n-Octane	16.97	57	92798	6.560	ng	99
64) Tetrachloroethene	17.11	166	92255	6.453	ng	99
65) Chlorobenzene	17.77	112	235474	6.264	ng	99
66) Ethylbenzene	18.12	91	402049	7.136	ng	100
67) m- & p-Xylenes	18.28	91	635277	13.953	ng	100
68) Bromoform	18.34	173	74246	6.297	ng	99
69) Styrene	18.60	104	244005	7.253	ng	100
70) o-Xylene	18.70	91	317168	7.043	ng	100
71) n-Nonane	18.90	43	227605	6.339	ng	98
72) 1,1,2,2-Tetrachloroethane	18.68	83	141186	6.435	ng	100
74) Cumene	19.22	105	409051	6.811	ng	100
75) alpha-Pinene	19.57	93	62101	2.458	ng	86
76) n-Propylbenzene	19.67	91	498694	6.993	ng	99
77) 3-Ethyltoluene	0.00	105	0	N.D.	d	
78) 4-Ethyltoluene	19.80	105	411413	7.437	ng	99
79) 1,3,5-Trimethylbenzene	19.86	105	336823	6.914	ng	100
80) alpha-Methylstyrene	0.00	118	0	N.D.	d	
81) 2-Ethyltoluene	0.00	105	0	N.D.	d	
82) 1,2,4-Trimethylbenzene	20.23	105	342416	7.029	ng	100
83) n-Decane	0.00	58	0	N.D.	d	
84) Benzyl Chloride	20.34	91	363570	9.707	ng	99
85) 1,3-Dichlorobenzene	20.36	146	194442	6.472	ng	100
86) 1,4-Dichlorobenzene	20.42	146	196162	6.405	ng	100
87) sec-Butylbenzene	20.46	105	460865	6.953	ng	100
88) 4-Isopropyltoluene (p-...	20.60	119	485750	8.155	ng	98
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.	d	
90) 1,2-Dichlorobenzene	20.72	146	190663	6.548	ng	100
91) d-Limonene	20.73	68	73501	3.772	ng	100
92) 1,2-Dibromo-3-Chloropr...	21.10	157	142298	12.737	ng	92
93) n-Undecane	0.00	58	0	N.D.	d	
94) 1,2,4-Trichlorobenzene	22.23	180	263944	11.417	ng	99
95) Naphthalene	22.34	128	424863	6.147	ng	100
96) n-Dodecane	0.00	58	0	N.D.	d	
97) Hexachlorobutadiene	22.66	225	80560	5.589	ng	99
98) Cyclohexanone	0.00	55	0	N.D.	d	
99) tert-Butylbenzene	20.23	119	353521	6.982	ng	100
100) n-Butylbenzene	20.97	91	369505	7.071	ng	100
101) 1,1,1,2-Tetrachloroethane	17.75	131	83373	6.027	ng	100

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

Data File : I:\MS16\DATA\2022_12\20\12202214.D
 Acq On : 20 Dec 2022 20:08
 Sample : 25ng R16122022 ICAL Std
 Misc : S35-11092201/S35-12162204 (1/15)

Vial: 2
 Operator: WA
 Inst : GCMS-16

Quant Time: Dec 20 20:39:42 2022

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Tue Dec 20 20:36:41 2022

Response via : Initial Calibration

DataAcq Meth:T015.M

12/21/22

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.31	130	174922	12.500	ng	0.00
37) 1,4-Difluorobenzene (IS2)	13.43	114	806576	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	17.73	54	163275	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.16	65	292986	11.981	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	95.84%	
57) Toluene-d8 (SS2)	15.87	98	888433	15.156	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	121.28%	
73) Bromofluorobenzene (SS3)	19.10	174	281104	14.868	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	118.96%	

Target Compounds

						Qvalue
2) Propene	4.18	42	637358	20.294	ng	100
3) Dichlorodifluoromethan...	4.34	85	711277	23.773	ng	100
4) Chloromethane	4.64	50	682693	21.728	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	392960	23.786	ng	100
6) Vinyl Chloride	5.07	62	606334	22.832	ng	100
7) 1,3-Butadiene	5.34	54	561481	23.249	ng	100
8) Bromomethane	5.79	94	310994	25.366	ng	100
9) Chloroethane	6.12	64	300587	25.143	ng	100
10) Ethanol	6.52	45	1373766	75.112	ng	100
11) Acetonitrile	6.76	41	907636	19.277	ng	100
12) Acrolein	6.95	56	582127	45.610	ng	100
13) Acetone	7.16	58	1674364	109.612	ng	100
14) Trichlorofluoromethane	7.40	101	651235	24.152	ng	100
15) 2-Propanol (Isopropanol)	7.66	45	2347657	49.155	ng	100
16) Acrylonitrile	7.92	53	1286627	45.748	ng	100
17) 1,1-Dichloroethene	8.37	96	387829	29.122	ng	100
18) 2-Methyl-2-Propanol (t...	8.53	59	2071920	59.578	ng	100
19) Methylene Chloride	8.60	84	385992	26.504	ng	100
20) 3-Chloro-1-propene (Al...	8.75	41	752414	26.219	ng	100
21) Trichlorotrifluoroethane	9.01	151	341961	26.137	ng	100
22) Carbon Disulfide	8.85	76	2806372	53.511	ng	100
23) trans-1,2-Dichloroethene	9.87	61	630309	28.327	ng	100
24) 1,1-Dichloroethane	10.12	63	735077	25.362	ng	100
25) Methyl tert-Butyl Ether	10.21	73	1149055	30.650	ng	100
26) Vinyl Acetate	10.37	86	240904	91.985	ng	100
27) 2-Butanone (MEK)	10.61	72	577149	64.157	ng	100
28) cis-1,2-Dichloroethene	11.14	61	606474	27.185	ng	100
29) Diisopropyl Ether	11.43	87	783772	57.252	ng	100
30) Ethyl Acetate	11.44	61	793322	106.740	ng	100
31) n-Hexane	11.42	57	854660	25.147	ng	100
32) Chloroform	11.48	83	650086	25.489	ng	100
34) Tetrahydrofuran (THF)	11.88	72	514092	58.474	ng	100
35) Ethyl tert-Butyl Ether	12.02	87	832750	51.459	ng	100
36) 1,2-Dichloroethane	12.27	62	546494	24.836	ng	100
38) 1,1,1-Trichloroethane	12.55	97	603769	24.943	ng	100
39) Isopropyl Acetate	0.00	61	0	N.D.	d	
40) 1-Butanol	0.00	56	0	N.D.	d	
41) Benzene	13.03	78	1564697	27.793	ng	100
42) Carbon Tetrachloride	13.19	117	519572	24.477	ng	100
43) Cyclohexane	13.32	84	1317676	59.081	ng	100
44) tert-Amyl Methyl Ether	13.67	73	1725342	45.994	ng	100
45) 1,2-Dichloropropane	13.88	63	437336	24.977	ng	100
46) Bromodichloromethane	14.07	83	531099	26.521	ng	100
47) Trichloroethene	14.13	130	440831	27.211	ng	100
48) 1,4-Dioxane	14.10	88	318542	28.004	ng	100
49) 2,2,4-Trimethylpentane...	14.19	57	2132064	25.200	ng	100
50) Methyl Methacrylate	14.33	100	370853	57.994	ng	100

Data File : I:\MS16\DATA\2022_12\20\12202214.D
 Acq On : 20 Dec 2022 20:08
 Sample : 25ng R16122022 ICAL Std
 Misc : S35-11092201/S35-12162204 (1/15)

Vial: 2
 Operator: WA
 Inst : GCMS-16

Quant Time: Dec 20 20:39:42 2022
 Quant Method : I:\MS16\METHODS\R16122022.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Tue Dec 20 20:36:41 2022
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.46	71	471634	30.494	ng	100
52) cis-1,3-Dichloropropene	14.99	75	670601	32.978	ng	100
53) 4-Methyl-2-pentanone	15.02	58	870676	53.806	ng	100
54) trans-1,3-Dichloropropene	15.51	75	579620	27.753	ng	100
55) 1,1,2-Trichloroethane	15.68	97	392732	27.426	ng	100
58) Toluene	15.98	91	1709144	32.644	ng	100
59) 2-Hexanone	16.21	43	2132740	60.683	ng	100
60) Dibromochloromethane	16.38	129	474046	32.225	ng	100
61) 1,2-Dibromoethane	16.63	107	441173	33.205	ng	100
62) n-Butyl Acetate	16.84	43	2319778	59.888	ng	100
63) n-Octane	16.98	57	452351	31.750	ng	100
64) Tetrachloroethene	17.11	166	458875	31.868	ng	100
65) Chlorobenzene	17.77	112	1161851	30.685	ng	100
66) Ethylbenzene	18.12	91	1980376	34.898	ng	100
67) m- & p-Xylenes	18.28	91	3132895	68.317	ng	100
68) Bromoform	18.35	173	377564	31.792	ng	100
69) Styrene	18.60	104	1228937	36.266	ng	100
70) o-Xylene	18.71	91	1556322	34.314	ng	100
71) n-Nonane	18.90	43	1087406	30.067	ng	100
72) 1,1,2,2-Tetrachloroethane	18.68	83	700196	31.683	ng	100
74) Cumene	19.23	105	2014182	33.300	ng	100
75) alpha-Pinene	19.58	93	551593	21.674	ng	100
76) n-Propylbenzene	19.67	91	2456477	34.202	ng	100
77) 3-Ethyltoluene	0.00	105	0	N.D.	d	
78) 4-Ethyltoluene	19.80	105	2020939	36.269	ng	100
79) 1,3,5-Trimethylbenzene	19.87	105	1630963	33.237	ng	100
80) alpha-Methylstyrene	0.00	118	0	N.D.	d	
81) 2-Ethyltoluene	0.00	105	0	N.D.	d	
82) 1,2,4-Trimethylbenzene	20.23	105	1682765	34.295	ng	100
83) n-Decane	0.00	58	0	N.D.	d	
84) Benzyl Chloride	20.34	91	2106975	55.853	ng	100
85) 1,3-Dichlorobenzene	20.36	146	960020	31.724	ng	100
86) 1,4-Dichlorobenzene	20.42	146	959127	31.093	ng	100
87) sec-Butylbenzene	20.46	105	2231574	33.427	ng	100
88) 4-Isopropyltoluene (p-...	20.60	119	2170192	36.172	ng	100
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.	d	
90) 1,2-Dichlorobenzene	20.72	146	938394	31.999	ng	100
91) d-Limonene	20.73	68	507151	25.837	ng	100
92) 1,2-Dibromo-3-Chloropr...	21.10	157	718879	63.887	ng	100
93) n-Undecane	0.00	58	0	N.D.	d	
94) 1,2,4-Trichlorobenzene	22.23	180	1364675	58.606	ng	100
95) Naphthalene	22.34	128	2158683	31.009	ng	100
96) n-Dodecane	0.00	58	0	N.D.	d	
97) Hexachlorobutadiene	22.66	225	413630	28.490	ng	100
98) Cyclohexanone	0.00	55	0	N.D.	d	
99) tert-Butylbenzene	20.23	119	1723782	33.803	ng	100
100) n-Butylbenzene	20.97	91	1831821	34.802	ng	100
101) 1,1,1,2-Tetrachloroethane	17.75	131	415013	29.785	ng	100

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

Data File : I:\MS16\DATA\2022_12\20\12202214.D
Acq On : 20 Dec 2022 20:08
Sample : 25ng R16122022 ICAL Std
Misc : S35-11092201/S35-12162204 (1/15)

Vial: 2
Operator: WA
Inst : GCMS-16

Quant Time: Dec 20 20:39:42 2022

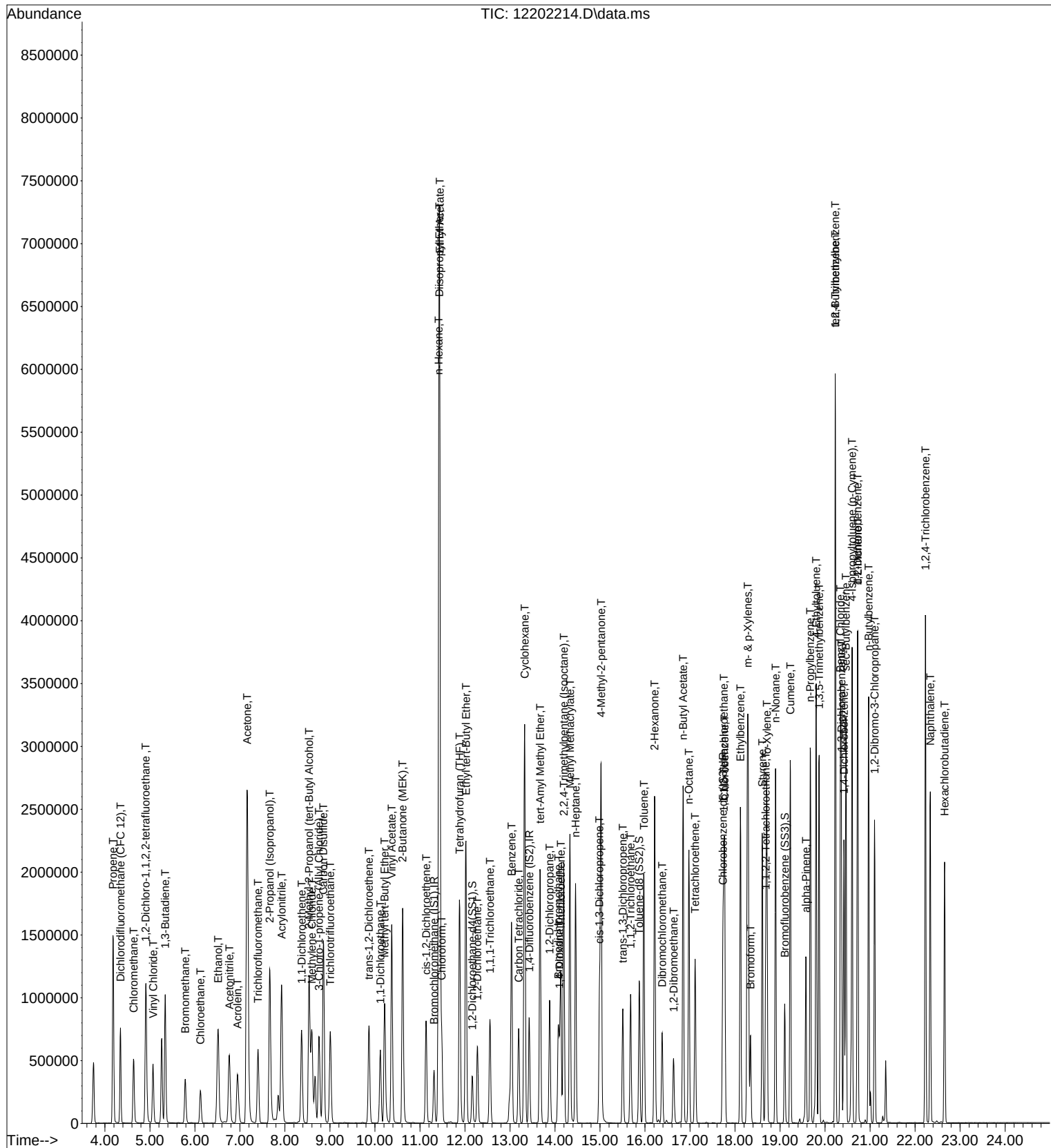
Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Tue Dec 20 20:36:41 2022

Response via : Initial Calibration

DataAcq Meth:T015.M



Data File : I:\MS16\DATA\2022_12\20\12202220.D
 Acq On : 20 Dec 2022 23:31
 Sample : 25ng R16122022 ICV Std
 Misc : S35-11092201/S35-11292206 (12/29)

Vial: 9
 Operator: WA
 Inst : GCMS-16

12/21/22

Quant Time: Dec 21 03:10:27 2022

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.31	130	173358	12.500	ng	0.01
37) 1,4-Difluorobenzene (IS2)	13.43	114	798180	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	17.72	54	158044	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.16	65	288311	12.506	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	100.08%	
57) Toluene-d8 (SS2)	15.87	98	879974	12.718	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	101.76%	
73) Bromofluorobenzene (SS3)	19.10	174	271957	12.602	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	100.80%	

Target Compounds

						Qvalue
2) Propene	4.19	42	639546	27.347	ng	99
3) Dichlorodifluoromethan...	4.35	85	682474	26.338	ng	100
4) Chloromethane	4.64	50	645608	26.641	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	376829	26.043	ng	99
6) Vinyl Chloride	5.07	62	589124	26.197	ng	100
7) 1,3-Butadiene	5.35	54	531638	28.217	ng	100
8) Bromomethane	5.79	94	303815	26.870	ng	100
9) Chloroethane	6.13	64	288548	26.659	ng	99
10) Ethanol	6.52	45	1597180	95.737	ng	100
11) Acetonitrile	6.76	41	848723	20.312	ng	100
12) Acrolein	6.95	56	570674	48.301	ng	100
13) Acetone	7.16	58	1614344	126.525	ng	98
14) Trichlorofluoromethane	7.40	101	623845	26.098	ng	100
15) 2-Propanol (Isopropanol)	7.67	45	2185384	49.187	ng	100
16) Acrylonitrile	7.92	53	1198093	50.329	ng	100
17) 1,1-Dichloroethene	8.37	96	372527	27.082	ng	100
18) 2-Methyl-2-Propanol (t...	8.53	59	1829861	57.771	ng	99
19) Methylene Chloride	8.60	84	371600	26.351	ng	99
20) 3-Chloro-1-propene (Al...	8.75	41	671131	25.882	ng	100
21) Trichlorotrifluoroethane	9.01	151	329112	27.638	ng	99
22) Carbon Disulfide	8.85	76	2587678	51.478	ng	100
23) trans-1,2-Dichloroethene	9.87	61	599982	28.219	ng	100
24) 1,1-Dichloroethane	10.12	63	711480	27.540	ng	100
25) Methyl tert-Butyl Ether	10.21	73	1066666	28.471	ng	100
26) Vinyl Acetate	10.37	86	386815	135.670	ng	# 94
27) 2-Butanone (MEK)	10.61	72	552902	59.775	ng	97
28) cis-1,2-Dichloroethene	11.14	61	572746	26.960	ng	100
29) Diisopropyl Ether	11.43	87	748172	56.829	ng	# 65
30) Ethyl Acetate	11.44	61	530271	87.650	ng	99
31) n-Hexane	11.42	57	822372	27.162	ng	100
32) Chloroform	11.48	83	629276	27.195	ng	99
34) Tetrahydrofuran (THF)	11.88	72	513475	54.124	ng	97
35) Ethyl tert-Butyl Ether	12.02	87	772779	56.074	ng	99
36) 1,2-Dichloroethane	12.27	62	522586	27.820	ng	100
38) 1,1,1-Trichloroethane	12.55	97	581855	26.944	ng	100
39) Isopropyl Acetate	0.00	61	0	N.D.	d	
40) 1-Butanol	0.00	56	0	N.D.	d	
41) Benzene	13.03	78	1526677	27.162	ng	100
42) Carbon Tetrachloride	13.19	117	475821	26.040	ng	100
43) Cyclohexane	13.32	84	1265843	53.321	ng	99
44) tert-Amyl Methyl Ether	13.67	73	1582416	56.101	ng	100
45) 1,2-Dichloropropane	13.88	63	420724	26.701	ng	100
46) Bromodichloromethane	14.07	83	513929	27.753	ng	100
47) Trichloroethene	14.13	130	428929	28.062	ng	99
48) 1,4-Dioxane	14.10	88	304851	28.809	ng	100
49) 2,2,4-Trimethylpentane...	14.19	57	1972418	26.011	ng	100
50) Methyl Methacrylate	14.33	100	356362	56.229	ng	98

Data File : I:\MS16\DATA\2022_12\20\12202220.D
 Acq On : 20 Dec 2022 23:31
 Sample : 25ng R16122022 ICV Std
 Misc : S35-11092201/S35-11292206 (12/29)

Vial: 9
 Operator: WA
 Inst : GCMS-16

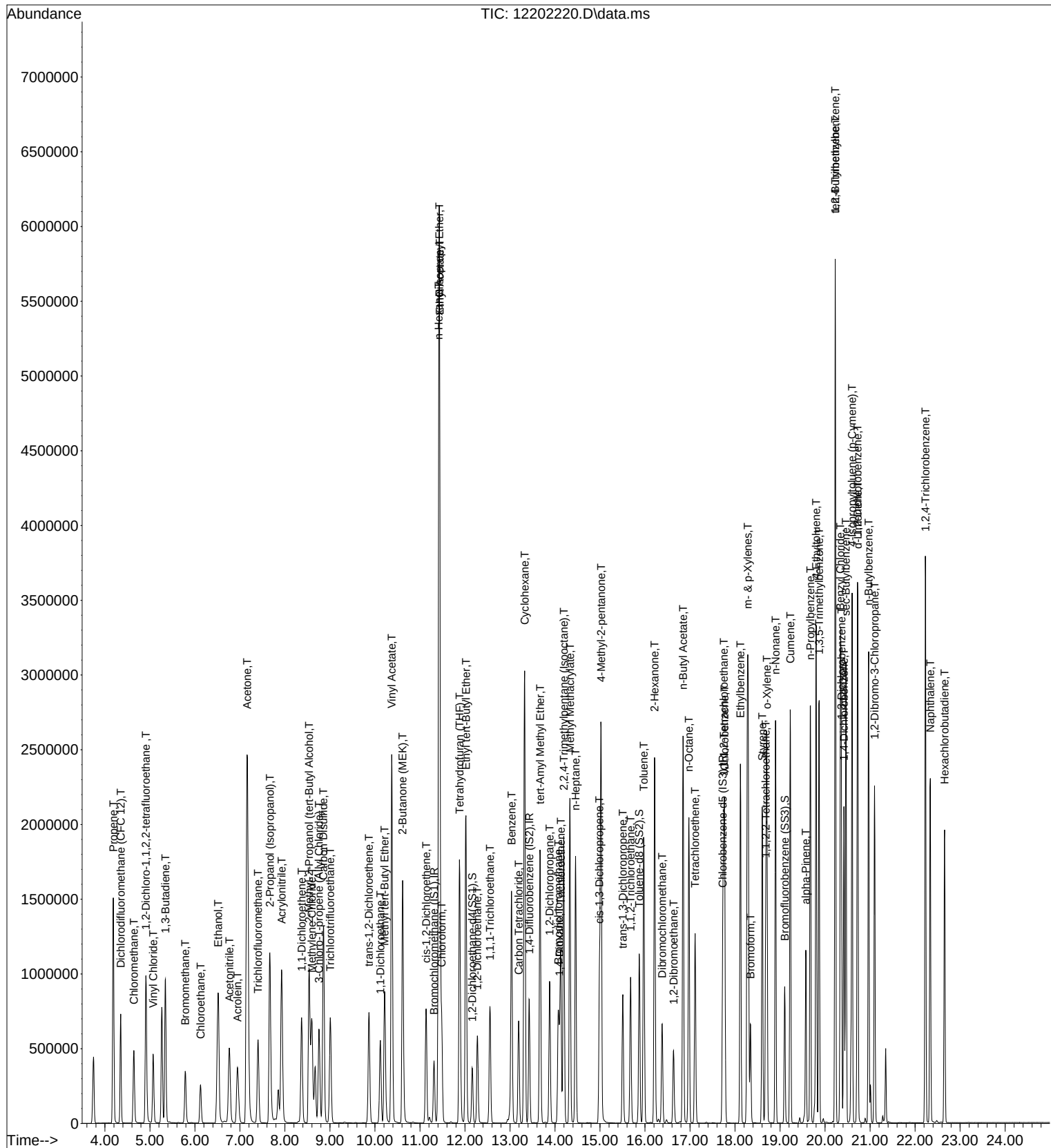
Quant Time: Dec 21 03:10:27 2022
 Quant Method : I:\MS16\METHODS\R16122022.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Wed Dec 21 03:06:38 2022
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.46	71	445358	27.007	ng	99
52) cis-1,3-Dichloropropene	14.99	75	641536	30.874	ng	100
53) 4-Methyl-2-pentanone	15.02	58	818678	62.849	ng	99
54) trans-1,3-Dichloropropene	15.51	75	549869	27.562	ng	100
55) 1,1,2-Trichloroethane	15.68	97	374761	27.478	ng	99
58) Toluene	15.97	91	1651582	27.253	ng	100
59) 2-Hexanone	16.21	43	1996137	62.361	ng	99
60) Dibromochloromethane	16.38	129	440445	29.025	ng	100
61) 1,2-Dibromoethane	16.64	107	417295	28.775	ng	100
62) n-Butyl Acetate	16.84	43	2231029	61.052	ng	99
63) n-Octane	16.98	57	424994	27.399	ng	100
64) Tetrachloroethene	17.11	166	443315	28.733	ng	100
65) Chlorobenzene	17.77	112	1103626	27.554	ng	100
66) Ethylbenzene	18.12	91	1902165	27.795	ng	100
67) m- & p-Xylenes	18.28	91	3010786	55.631	ng	100
68) Bromoform	18.35	173	358454	27.715	ng	100
69) Styrene	18.60	104	1143844	30.035	ng	100
70) o-Xylene	18.71	91	1492502	28.038	ng	99
71) n-Nonane	18.90	43	1026197	27.012	ng	99
72) 1,1,2,2-Tetrachloroethane	18.68	83	670522	28.706	ng	100
74) Cumene	19.23	105	1917469	28.569	ng	100
75) alpha-Pinene	19.57	93	470586	27.312	ng	100
76) n-Propylbenzene	19.68	91	2306134	28.227	ng	99
77) 3-Ethyltoluene	0.00	105	0	N.D.	d	
78) 4-Ethyltoluene	19.80	105	1907732	29.958	ng	100
79) 1,3,5-Trimethylbenzene	19.87	105	1566149	27.454	ng	99
80) alpha-Methylstyrene	0.00	118	0	N.D.	d	
81) 2-Ethyltoluene	0.00	105	0	N.D.	d	
82) 1,2,4-Trimethylbenzene	20.23	105	1621873	29.735	ng	99
83) n-Decane	0.00	58	0	N.D.	d	
84) Benzyl Chloride	20.34	91	2010164	60.615	ng	100
85) 1,3-Dichlorobenzene	20.36	146	914670	30.281	ng	100
86) 1,4-Dichlorobenzene	20.42	146	895704	28.493	ng	100
87) sec-Butylbenzene	20.46	105	2102776	28.287	ng	100
88) 4-Isopropyltoluene (p-...	20.60	119	2044065	25.530	ng	100
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.	d	
90) 1,2-Dichlorobenzene	20.72	146	883899	29.724	ng	100
91) d-Limonene	20.73	68	451149	28.972	ng	99
92) 1,2-Dibromo-3-Chloropr...	21.10	157	679766	60.890	ng	99
93) n-Undecane	0.00	58	0	N.D.	d	
94) 1,2,4-Trichlorobenzene	22.23	180	1258176	61.742	ng	100
95) Naphthalene	22.34	128	1904516	28.466	ng	100
96) n-Dodecane	0.00	58	0	N.D.	d	
97) Hexachlorobutadiene	22.66	225	388472	27.886	ng	100
98) Cyclohexanone	0.00	55	0	N.D.	d	
99) tert-Butylbenzene	20.23	119	1648431	29.326	ng	100
100) n-Butylbenzene	20.97	91	1735184	29.689	ng	100
101) 1,1,1,2-Tetrachloroethane	17.75	131	393603	28.014	ng	100

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

Vial: 9
Operator: WA
Inst : GCMS-16

Quant Time: Dec 21 03:10:27 2022



Data File : I:\MS16\DATA\2022_12\20\12202215.D

Vial: 2

Acq On : 20 Dec 2022 20:42

Operator: WA

Sample : 50ng R16122022 ICAL Std

Inst : GCMS-16

Misc : S35-11092201/S35-12162204 (1/15)

Quant Time: Dec 21 02:35:40 2022

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Tue Dec 20 20:36:41 2022

Response via : Initial Calibration

DataAcq Meth:TO15.M

12/21/22

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.32	130	181772	12.500	ng	0.01
37) 1,4-Difluorobenzene (IS2)	13.43	114	819249	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	17.73	54	164087	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.17	65	295008	11.609	ng	0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	92.88%	
57) Toluene-d8 (SS2)	15.88	98	907757	15.409	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	123.28%	
73) Bromofluorobenzene (SS3)	19.10	174	286644	15.086	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	120.72%	

Target Compounds

						Qvalue
2) Propene	4.19	42	1410010	43.203	ng	100
3) Dichlorodifluoromethan...	4.35	85	1400675	45.050	ng	100
4) Chloromethane	4.65	50	1264272	38.722	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	781649	45.530	ng	100
6) Vinyl Chloride	5.08	62	1200073	43.487	ng	100
7) 1,3-Butadiene	5.35	54	1113225	44.358	ng	99
8) Bromomethane	5.80	94	614637	48.244	ng	100
9) Chloroethane	6.13	64	596211	47.991	ng	100
10) Ethanol	6.54	45	2694788	141.788	ng	100
11) Acetonitrile	6.78	41	1809925	36.991	ng	100
12) Acrolein	6.96	56	1175610	88.639	ng	100
13) Acetone	7.18	58	3312965	208.710	ng	95
14) Trichlorofluoromethane	7.41	101	1281724	45.743	ng	100
15) 2-Propanol (Isopropanol)	7.68	45	4017601	80.951	ng	99
16) Acrylonitrile	7.95	53	2546978	87.149	ng	100
17) 1,1-Dichloroethene	8.38	96	771943	55.781	ng	99
18) 2-Methyl-2-Propanol (t...	8.55	59	3373584	93.352	ng	99
19) Methylene Chloride	8.61	84	780089	51.547	ng	97
20) 3-Chloro-1-propene (Al...	8.77	41	1507822	50.563	ng	99
21) Trichlorotrifluoroethane	9.01	151	683436	50.268	ng	99
22) Carbon Disulfide	8.86	76	5509098	101.088	ng	100
23) trans-1,2-Dichloroethene	9.87	61	1275155	55.148	ng	99
24) 1,1-Dichloroethane	10.12	63	1460326	48.487	ng	100
25) Methyl tert-Butyl Ether	10.22	73	2324257	59.661	ng	100
26) Vinyl Acetate	10.38	86	500837	184.028	ng	# 93
27) 2-Butanone (MEK)	10.62	72	1149212	122.935	ng	95
28) cis-1,2-Dichloroethene	11.14	61	1195978	51.590	ng	99
29) Diisopropyl Ether	11.43	87	1486997	104.528	ng	# 85
30) Ethyl Acetate	11.45	61	1470935	190.453	ng	97
31) n-Hexane	11.42	57	1634471	46.279	ng	100
32) Chloroform	11.49	83	1272034	47.996	ng	99
34) Tetrahydrofuran (THF)	11.88	72	1022712	111.941	ng	96
35) Ethyl tert-Butyl Ether	12.02	87	1728128	102.763	ng	98
36) 1,2-Dichloroethane	12.28	62	1059369	46.330	ng	100
38) 1,1,1-Trichloroethane	12.56	97	1199494	48.788	ng	99
39) Isopropyl Acetate	0.00	61	0	N.D.	d	
40) 1-Butanol	0.00	56	0	N.D.	d	
41) Benzene	13.04	78	3127338	54.691	ng	100
42) Carbon Tetrachloride	13.20	117	1040641	48.267	ng	100
43) Cyclohexane	13.32	84	2635931	116.359	ng	99
44) tert-Amyl Methyl Ether	13.67	73	3649962	95.795	ng	99
45) 1,2-Dichloropropane	13.89	63	862810	48.514	ng	100
46) Bromodichloromethane	14.07	83	1052289	51.734	ng	100
47) Trichloroethene	14.13	130	879416	53.445	ng	100
48) 1,4-Dioxane	14.10	88	642880	55.643	ng	99
49) 2,2,4-Trimethylpentane...	14.20	57	4170661	48.533	ng	99
50) Methyl Methacrylate	14.34	100	738871	113.757	ng	99

Data File : I:\MS16\DATA\2022_12\20\12202215.D
 Acq On : 20 Dec 2022 20:42
 Sample : 50ng R16122022 ICAL Std
 Misc : S35-11092201/S35-12162204 (1/15)

Vial: 2
 Operator: WA
 Inst : GCMS-16

Quant Time: Dec 21 02:35:40 2022
 Quant Method : I:\MS16\METHODS\R16122022.M
 Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
 QLast Update : Tue Dec 20 20:36:41 2022
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.46	71	934155	59.464	ng	99
52) cis-1,3-Dichloropropene	14.99	75	1334268	64.599	ng	100
53) 4-Methyl-2-pentanone	15.03	58	1724229	104.906	ng	96
54) trans-1,3-Dichloropropene	15.51	75	1184412	55.834	ng	100
55) 1,1,2-Trichloroethane	15.68	97	782939	53.831	ng	100
58) Toluene	15.98	91	3363556	63.925	ng	100
59) 2-Hexanone	16.22	43	4174034	118.177	ng	98
60) Dibromochloromethane	16.38	129	954723	64.580	ng	99
61) 1,2-Dibromoethane	16.64	107	883867	66.194	ng	100
62) n-Butyl Acetate	16.85	43	4626749	118.855	ng	98
63) n-Octane	16.98	57	880517	61.498	ng	99
64) Tetrachloroethene	17.11	166	918080	63.443	ng	100
65) Chlorobenzene	17.77	112	2332235	61.291	ng	100
66) Ethylbenzene	18.12	91	3933977	68.981	ng	100
67) m- & p-Xylenes	18.29	91	6038526	131.026	ng	99
68) Bromoform	18.35	173	772300	64.708	ng	100
69) Styrene	18.60	104	2455359	72.100	ng	100
70) o-Xylene	18.71	91	3048314	66.876	ng	99
71) n-Nonane	18.90	43	2051926	56.455	ng	97
72) 1,1,2,2-Tetrachloroethane	18.69	83	1380395	62.152	ng	100
74) Cumene	19.23	105	3948743	64.960	ng	99
75) alpha-Pinene	19.58	93	1277969	49.968	ng	97
76) n-Propylbenzene	19.68	91	4791526	66.382	ng	99
77) 3-Ethyltoluene	0.00	105	0	N.D.	d	
78) 4-Ethyltoluene	19.80	105	3960910	70.734	ng	100
79) 1,3,5-Trimethylbenzene	19.87	105	3188463	64.656	ng	100
80) alpha-Methylstyrene	0.00	118	0	N.D.	d	
81) 2-Ethyltoluene	0.00	105	0	N.D.	d	
82) 1,2,4-Trimethylbenzene	20.23	105	3201276	64.919	ng	99
83) n-Decane	0.00	58	0	N.D.	d	
84) Benzyl Chloride	20.35	91	4572293	120.605	ng	100
85) 1,3-Dichlorobenzene	20.36	146	1897298	62.387	ng	100
86) 1,4-Dichlorobenzene	20.42	146	1896241	61.167	ng	99
87) sec-Butylbenzene	20.47	105	4321796	64.417	ng	100
88) 4-Isopropyltoluene (p-...	20.61	119	4072123	67.536	ng	100
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.	d	
90) 1,2-Dichlorobenzene	20.72	146	1826557	61.977	ng	100
91) d-Limonene	20.73	68	1045131	52.981	ng	98
92) 1,2-Dibromo-3-Chloropr...	21.11	157	1423689	125.898	ng	96
93) n-Undecane	0.00	58	0	N.D.	d	
94) 1,2,4-Trichlorobenzene	22.23	180	2734956	116.871	ng	99
95) Naphthalene	22.34	128	4405694	62.974	ng	100
96) n-Dodecane	0.00	58	0	N.D.	d	
97) Hexachlorobutadiene	22.66	225	849334	58.212	ng	100
98) Cyclohexanone	0.00	55	0	N.D.	d	
99) tert-Butylbenzene	20.23	119	3234786	63.119	ng	100
100) n-Butylbenzene	20.97	91	3556794	67.239	ng	100
101) 1,1,1,2-Tetrachloroethane	17.75	131	834124	59.569	ng	100

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

Data File : I:\MS16\DATA\2022_12\20\12202215.D
Acq On : 20 Dec 2022 20:42
Sample : 50ng R16122022 ICAL Std
Misc : S35-11092201/S35-12162204 (1/15)

Vial: 2
Operator: WA
Inst : GCMS-16

Quant Time: Dec 21 02:35:40 2022

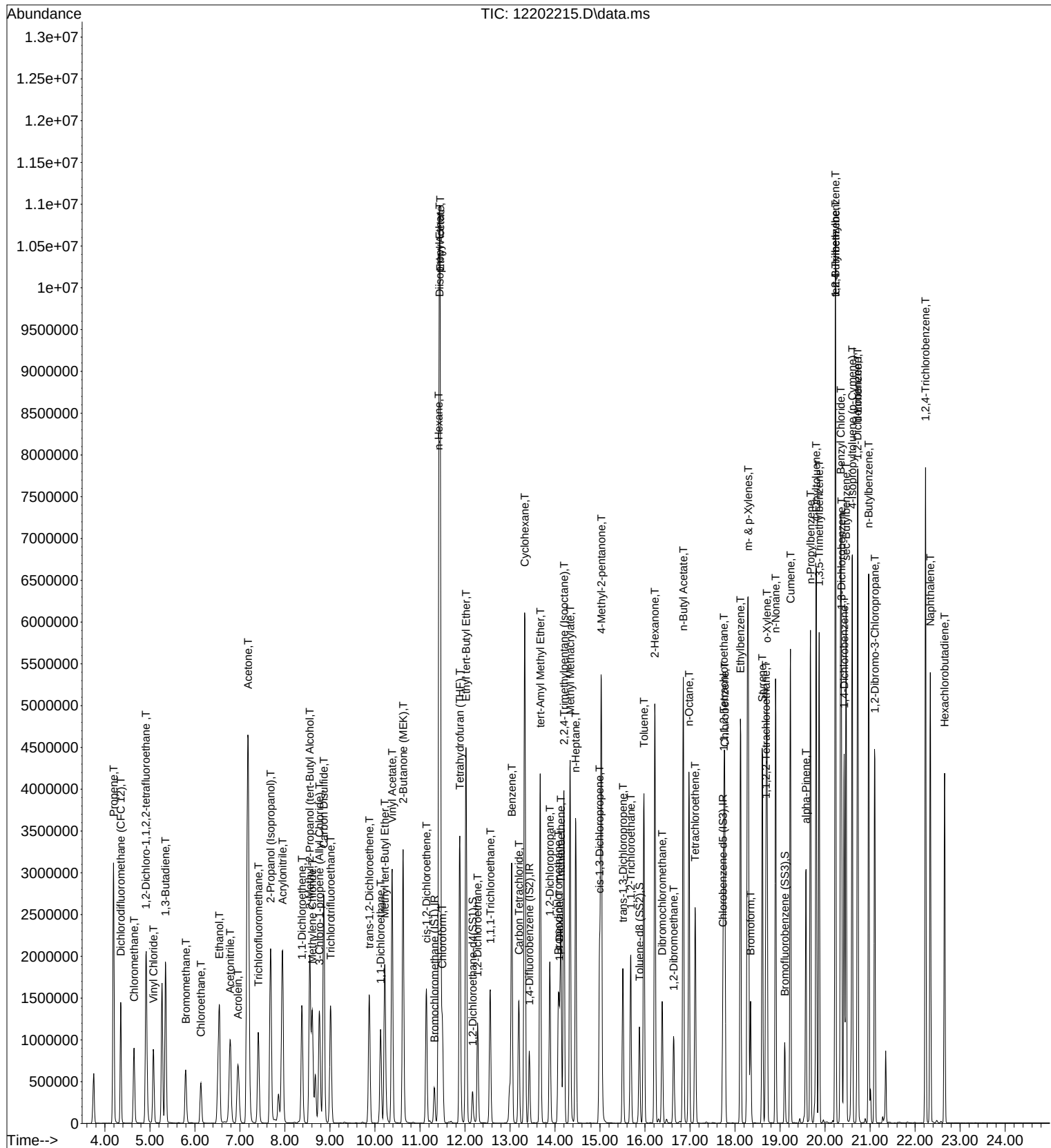
Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Tue Dec 20 20:36:41 2022

Response via : Initial Calibration

DataAcq Meth:T015.M



Data File : I:\MS16\DATA\2022_12\20\12202217.D

Vial: 2

Acq On : 20 Dec 2022 21:50

Operator: WA

Sample : 100ng R16122022 ICAL Std

Inst : GCMS-16

Misc : S35-11092201/S35-12162204 (1/15)

Quant Time: Dec 21 02:37:04 2022

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

12/21/22

QLast Update : Tue Dec 20 20:36:41 2022

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.33	130	187658	12.500	ng	0.02
37) 1,4-Difluorobenzene (IS2)	13.43	114	835782	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	17.73	54	166233	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.18	65	295667	11.270	ng	0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	90.16%	
57) Toluene-d8 (SS2)	15.88	98	921487	15.440	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	123.52%	
73) Bromofluorobenzene (SS3)	19.10	174	293129	15.228	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	121.84%	

Target Compounds

						Qvalue
2) Propene	4.19	42	3125738	92.770	ng	99
3) Dichlorodifluoromethan...	4.36	85	2711427	84.473	ng	100
4) Chloromethane	4.65	50	1719354	51.009	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	4.92	135	1573103	88.756	ng	100
6) Vinyl Chloride	5.08	62	2385666	83.737	ng	100
7) 1,3-Butadiene	5.36	54	2241192	86.503	ng	98
8) Bromomethane	5.80	94	1219851	92.745	ng	100
9) Chloroethane	6.14	64	1188680	92.680	ng	100
10) Ethanol	6.59	45	5328616	271.575	ng	100
11) Acetonitrile	6.81	41	3580413	70.881	ng	100
12) Acrolein	6.98	56	2304632	168.314	ng	100
13) Acetone	7.20	58	6364286	388.362	ng	89
14) Trichlorofluoromethane	7.41	101	2536665	87.690	ng	100
15) 2-Propanol (Isopropanol)	7.72	45	6591907	128.654	ng	99
16) Acrylonitrile	7.97	53	5016950	166.278	ng	100
17) 1,1-Dichloroethene	8.39	96	1560674	109.238	ng	97
18) 2-Methyl-2-Propanol (t...	8.57	59	3427550	91.871	ng	96
19) Methylene Chloride	8.62	84	1538742	98.488	ng	94
20) 3-Chloro-1-propene (Al...	8.78	41	2961885	96.208	ng	99
21) Trichlorotrifluoroethane	9.02	151	1351757	96.306	ng	97
22) Carbon Disulfide	8.87	76	10951107	194.641	ng	100
23) trans-1,2-Dichloroethene	9.88	61	2488714	104.256	ng	98
24) 1,1-Dichloroethane	10.14	63	2847375	91.576	ng	100
25) Methyl tert-Butyl Ether	10.22	73	3882268	96.528	ng	100
26) Vinyl Acetate	10.39	86	1015424	361.406	ng	# 85
27) 2-Butanone (MEK)	10.64	72	2279304	236.177	ng	# 89
28) cis-1,2-Dichloroethene	11.15	61	2362494	98.712	ng	98
29) Diisopropyl Ether	11.44	87	2429892	165.450	ng	# 82
30) Ethyl Acetate	11.47	61	2523077	316.435	ng	94
31) n-Hexane	11.42	57	2954336	81.026	ng	100
32) Chloroform	11.52	83	2502709	91.469	ng	99
34) Tetrahydrofuran (THF)	11.89	72	2001126	212.164	ng	# 92
35) Ethyl tert-Butyl Ether	12.03	87	3480833	200.495	ng	95
36) 1,2-Dichloroethane	12.29	62	2053455	86.988	ng	100
38) 1,1,1-Trichloroethane	12.57	97	2328015	92.815	ng	98
39) Isopropyl Acetate	0.00	61	0	N.D.	d	
40) 1-Butanol	0.00	56	0	N.D.	d	
41) Benzene	13.04	78	6206404	106.390	ng	100
42) Carbon Tetrachloride	13.20	117	2056284	93.487	ng	100
43) Cyclohexane	13.33	84	4978041	215.401	ng	97
44) tert-Amyl Methyl Ether	13.68	73	7544559	194.093	ng	97
45) 1,2-Dichloropropane	13.89	63	1703402	93.884	ng	100
46) Bromodichloromethane	14.08	83	2116246	101.984	ng	99
47) Trichloroethene	14.13	130	1749458	104.216	ng	100
48) 1,4-Dioxane	14.11	88	1298152	110.136	ng	97
49) 2,2,4-Trimethylpentane...	14.20	57	7942075	90.591	ng	97
50) Methyl Methacrylate	14.34	100	1474969	222.595	ng	97

Data File : I:\MS16\DATA\2022_12\20\12202217.D
 Acq On : 20 Dec 2022 21:50
 Sample : 100ng R16122022 ICAL Std
 Misc : S35-11092201/S35-12162204 (1/15)

Vial: 2
 Operator: WA
 Inst : GCMS-16

Quant Time: Dec 21 02:37:04 2022
 Quant Method : I:\MS16\METHODS\R16122022.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Tue Dec 20 20:36:41 2022
 Response via : Initial Calibration
 DataAcq Meth:T015.M

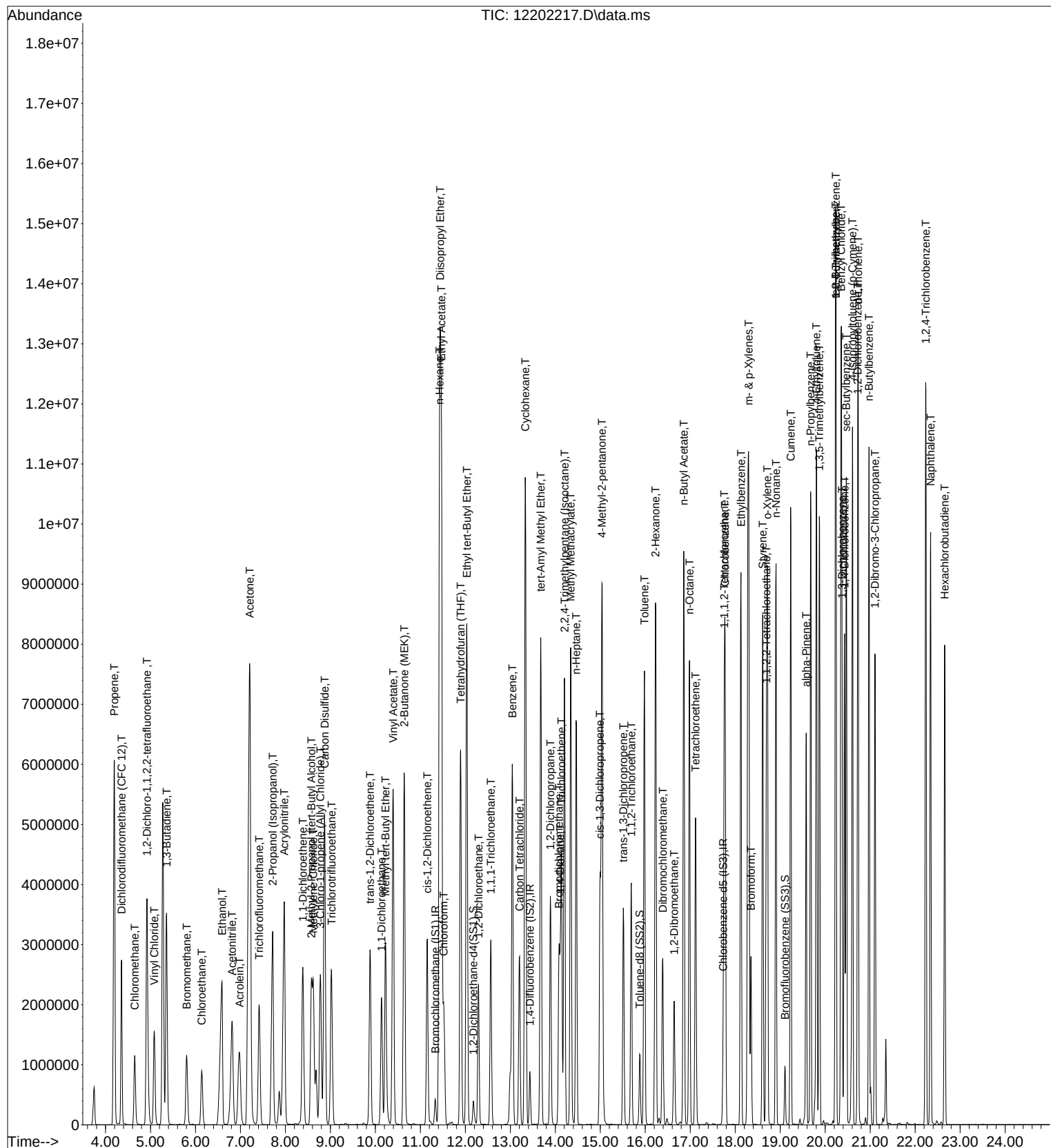
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.46	71	1812936	113.121	ng	98
52) cis-1,3-Dichloropropene	14.99	75	2666092	126.526	ng	99
53) 4-Methyl-2-pentanone	15.03	58	3285004	195.914	ng	91
54) trans-1,3-Dichloropropene	15.51	75	2362500	109.167	ng	100
55) 1,1,2-Trichloroethane	15.69	97	1572641	105.988	ng	100
58) Toluene	15.98	91	6653411	124.817	ng	100
59) 2-Hexanone	16.23	43	7700892	215.215	ng	95
60) Dibromochloromethane	16.39	129	1914557	127.834	ng	99
61) 1,2-Dibromoethane	16.64	107	1777774	131.422	ng	99
62) n-Butyl Acetate	16.86	43	8628747	218.799	ng	96
63) n-Octane	16.98	57	1700570	117.239	ng	98
64) Tetrachloroethene	17.12	166	1850424	126.222	ng	99
65) Chlorobenzene	17.77	112	4524666	117.373	ng	100
66) Ethylbenzene	18.13	91	7606262	131.651	ng	100
67) m- & p-Xylenes	18.30	91	11563249	247.664	ng	99
68) Bromoform	18.35	173	1557993	128.853	ng	100
69) Styrene	18.61	104	4753931	137.794	ng	99
70) o-Xylene	18.71	91	5764111	124.825	ng	100
71) n-Nonane	18.91	43	3655882	99.287	ng	93
72) 1,1,2,2-Tetrachloroethane	18.69	83	2678732	119.053	ng	100
74) Cumene	19.23	105	7442433	120.854	ng	99
75) alpha-Pinene	19.58	93	2750905	106.171	ng	95
76) n-Propylbenzene	19.68	91	8901772	121.734	ng	99
77) 3-Ethyltoluene	0.00	105	0	N.D.	d	
78) 4-Ethyltoluene	19.80	105	7319659	129.027	ng	100
79) 1,3,5-Trimethylbenzene	19.87	105	6002730	120.152	ng	99
80) alpha-Methylstyrene	0.00	118	0	N.D.	d	
81) 2-Ethyltoluene	0.00	105	0	N.D.	d	
82) 1,2,4-Trimethylbenzene	20.24	105	5464350	109.382	ng	96
83) n-Decane	0.00	58	0	N.D.	d	
84) Benzyl Chloride	20.35	91	8622888	224.513	ng	100
85) 1,3-Dichlorobenzene	20.37	146	3394724	110.184	ng	100
86) 1,4-Dichlorobenzene	20.43	146	3598800	114.589	ng	99
87) sec-Butylbenzene	20.47	105	7770720	114.328	ng	99
88) 4-Isopropyltoluene (p-...	20.61	119	7138199	116.858	ng	100
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.	d	
90) 1,2-Dichlorobenzene	20.72	146	3211637	107.567	ng	100
91) d-Limonene	20.73	68	1914957	95.822	ng	96
92) 1,2-Dibromo-3-Chloropr...	21.11	157	2676948	233.669	ng	91
93) n-Undecane	0.00	58	0	N.D.	d	
94) 1,2,4-Trichlorobenzene	22.24	180	4925808	207.774	ng	98
95) Naphthalene	22.34	128	8355380	117.888	ng	100
96) n-Dodecane	0.00	58	0	N.D.	d	
97) Hexachlorobutadiene	22.66	225	1676574	113.426	ng	99
98) Cyclohexanone	0.00	55	0	N.D.	d	
99) tert-Butylbenzene	20.23	119	5435803	104.698	ng	99
100) n-Butylbenzene	20.97	91	6506782	121.419	ng	99
101) 1,1,1,2-Tetrachloroethane	17.76	131	1629050	114.837	ng	100

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

Data File : I:\MS16\DATA\2022_12\20\12202217.D
Acq On : 20 Dec 2022 21:50
Sample : 100ng R16122022 ICAL Std
Misc : S35-11092201/S35-12162204 (1/15)

Vial: 2
Operator: WA
Inst : GCMS-16

Quant Time: Dec 21 02:37:04 2022
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
QLast Update : Tue Dec 20 20:36:41 2022
Response via : Initial Calibration
DataAcq Meth:T015.M



ALS Environmental

LCS Acceptance Criteria

12/21/22

25ng R16122022 ICV Std

	RT
Bromochloromethane (IS1)	11.31
1,4-Difluorobenzene (IS2)	13.43
Chlorobenzene-d5 (IS3)	17.72

Datafile: 12202220.D
Instrument: MS-16
Date: 12/20/2022

CAS No	Analyte	Amount Found	Spike Amount	% REC	ALS		70-130		DOD	
					LCS Limits	Pass/Fail	LCS Limits	Pass/Fail	LCS Limits	Pass/Fail
115-07-1	Propene	27.347	26.5	103	56-128	ok	70-130	ok	57-136	ok
75-71-8	Dichlorodifluoromethane	26.338	26.5	99	71-112	ok	70-130	ok	59-128	ok
74-87-3	Chloromethane	26.641	25.8	103	53-126	ok	70-130	ok	59-132	ok
76-14-2	Freon 114	26.043	25.8	101	62-121	ok	70-130	ok	63-121	ok
75-01-4	Vinyl Chloride	26.197	25.5	103	63-123	ok	70-130	ok	64-127	ok
106-99-0	1,3-Butadiene	28.217	26.5	106	63-135	ok	70-130	ok	66-134	ok
74-83-9	Bromomethane	26.870	25.8	104	71-112	ok	70-130	ok	63-134	ok
75-00-3	Chloroethane	26.659	26.0	103	66-117	ok	70-130	ok	63-127	ok
64-17-5	Ethanol	95.737	88.3	108	57-117	ok	70-130	ok	59-125	ok
75-05-8	Acetonitrile	20.312	22.8	89	59-131	ok	70-130	ok	63-132	ok
107-02-8	Acrolein	48.301	48.5	100	71-123	ok	70-130	ok	62-126	ok
67-64-1	Acetone	126.525	133	95	60-117	ok	70-130	ok	58-128	ok
75-69-4	Trichlorofluoromethane	26.098	26.3	99	71-114	ok	70-130	ok	62-126	ok
67-63-0	Isopropanol	49.187	51.5	96	61-124	ok	70-130	ok	52-125	ok
107-13-1	Acrylonitrile	50.329	51.5	98	65-130	ok	70-130	ok	71-137	ok
75-35-4	1,1-Dichloroethene	27.082	27.0	100	74-114	ok	70-130	ok	61-133	ok
75-65-0	tert-Butanol	57.771	53.3	108	56-135	ok	70-130	ok	24-150	ok
75-09-2	Methylene Chloride	26.351	26.5	99	75-112	ok	70-130	ok	62-115	ok
107-05-1	Allyl Chloride	25.882	26.8	97	57-127	ok	70-130	ok	71-131	ok
76-13-1	Trichlorotrifluoroethane	27.638	27.0	102	73-114	ok	70-130	ok	66-126	ok
75-15-0	Carbon Disulfide	51.478	53.3	97	70-113	ok	70-130	ok	57-134	ok
156-60-5	trans-1,2-Dichloroethene	28.219	27.0	105	76-119	ok	70-130	ok	67-124	ok
75-34-3	1,1-Dichloroethane	27.540	27.0	102	70-114	ok	70-130	ok	68-126	ok
1634-04-4	Methyl tert-Butyl Ether	28.471	26.8	106	72-118	ok	70-130	ok	66-126	ok
108-05-4	Vinyl Acetate	135.670	70.5	192	56-137	FAIL	70-130	FAIL	56-139	FAIL
78-93-3	2-Butanone	59.775	52.3	114	74-121	ok	70-130	ok	67-130	ok
156-59-2	cis-1,2-Dichloroethene	26.960	26.8	101	73-117	ok	70-130	ok	70-121	ok
108-20-3	Diisopropyl Ether	56.829	52.5	108	58-124	ok	70-130	ok	70-117	ok
141-78-6	Ethyl Acetate	87.650	107	82	59-161	ok	70-130	ok	65-128	ok
110-54-3	n-Hexane	27.162	26.5	102	55-130	ok	70-130	ok	63-120	ok
67-66-3	Chloroform	27.195	26.5	103	71-114	ok	70-130	ok	68-123	ok
109-99-9	Tetrahydrofuran	54.124	51.5	105	73-114	ok	70-130	ok	64-123	ok
637-92-3	Ethyl tert-Butyl Ether	56.074	53.5	105	76-119	ok	70-130	ok	61-130	ok
107-06-2	1,2-Dichloroethane	27.820	27.0	103	71-119	ok	70-130	ok	65-128	ok
71-55-6	1,1,1-Trichloroethane	26.944	26.3	102	73-119	ok	70-130	ok	68-125	ok
108-21-4	Isopropyl Acetate	0.000	#N/A	#N/A	0	#N/A	70-130	#N/A	65-129	#N/A
71-36-3	1-Butanol	0.000	#N/A	#N/A	0	#N/A	70-130	#N/A	62-133	#N/A
71-43-2	Benzene	27.162	27.0	101	72-113	ok	70-130	ok	69-119	ok
56-23-5	Carbon Tetrachloride	26.040	25.8	101	67-123	ok	70-130	ok	68-132	ok
110-82-7	Cyclohexane	53.321	52.8	101	70-119	ok	70-130	ok	70-117	ok
994-05-8	tert-Amyl Methyl Ether	56.101	53.5	105	74-120	ok	70-130	ok	62-133	ok
78-87-5	1,2-Dichloropropane	26.701	26.5	101	70-118	ok	70-130	ok	69-123	ok
75-27-4	Bromodichloromethane	27.753	27.0	103	74-119	ok	70-130	ok	72-128	ok
79-01-6	Trichloroethene	28.062	26.5	106	74-115	ok	70-130	ok	71-123	ok
123-91-1	1,4-Dioxane	28.809	26.5	109	77-124	ok	70-130	ok	71-122	ok
540-84-1	Isooctane	26.011	27.0	96	65-120	ok	70-130	ok	68-121	ok
80-62-6	Methyl Methacrylate	56.229	53.3	105	78-126	ok	70-130	ok	70-128	ok
142-82-5	n-Heptane	27.007	26.5	102	70-119	ok	70-130	ok	69-123	ok
10061-01-5	cis-1,3-Dichloropropene	30.874	27.0	114	81-126	ok	70-130	ok	70-128	ok
108-10-1	4-Methyl-2-pentanone	62.849	54.0	116	73-129	ok	70-130	ok	67-130	ok

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	RT
Bromochloromethane (IS1)	11.31
1,4-Difluorobenzene (IS2)	13.43
Chlorobenzene-d5 (IS3)	17.72

Datafile: 12202220.D
Instrument: MS-16
Date: 12/20/2022

CAS No	Analyte	Amount	Spike	%	ALS		70-130		DOD	
		Found	Amount	REC	LCS Limits	Pass/Fail	LCS Limits	Pass/Fail	LCS Limits	Pass/Fail
10061-02-6	trans-1,3-Dichloropropene	27.562	25.8	107	80-127	ok	70-130	ok	75-133	ok
79-00-5	1,1,2-Trichloroethane	27.478	26.5	104	78-117	ok	70-130	ok	73-119	ok
108-88-3	Toluene	27.253	26.5	103	70-118	ok	70-130	ok	66-119	ok
591-78-6	2-Hexanone	62.361	53.3	117	74-132	ok	70-130	ok	62-128	ok
124-48-1	Dibromochloromethane	29.025	27.0	108	69-137	ok	70-130	ok	70-130	ok
106-93-4	1,2-Dibromoethane	28.775	26.0	111	76-128	ok	70-130	ok	74-122	ok
123-86-4	Butyl Acetate	61.052	51.3	119	75-134	ok	70-130	ok	65-134	ok
111-65-9	n-Octane	27.399	26.8	102	68-120	ok	70-130	ok	69-121	ok
127-18-4	Tetrachloroethene	28.733	26.5	108	63-130	ok	70-130	ok	66-124	ok
108-90-7	Chlorobenzene	27.554	26.5	104	70-118	ok	70-130	ok	70-119	ok
100-41-4	Ethylbenzene	27.795	26.3	106	71-123	ok	70-130	ok	70-124	ok
179601-23-1	m- & p-Xylene	55.631	52.5	106	67-127	ok	70-130	ok	61-134	ok
75-25-2	Bromoform	27.715	26.8	103	65-149	ok	70-130	ok	66-139	ok
100-42-5	Styrene	30.035	26.5	113	76-132	ok	70-130	ok	73-127	ok
95-47-6	o-Xylene	28.038	26.5	106	69-124	ok	70-130	ok	67-125	ok
111-84-2	n-Nonane	27.012	26.5	102	64-127	ok	70-130	ok	63-128	ok
79-34-5	1,1,2,2-Tetrachloroethane	28.706	26.5	108	69-128	ok	70-130	ok	65-127	ok
98-82-8	Cumene	28.569	26.5	108	69-125	ok	70-130	ok	68-124	ok
80-56-8	alpha-Pinene	27.312	27.3	100	68-129	ok	70-130	ok	62-136	ok
103-65-1	n-Propylbenzene	28.227	26.8	105	70-127	ok	70-130	ok	69-123	ok
620-14-4	3-Ethyltoluene	0.000	#N/A	#N/A	0	#N/A	70-130	#N/A	62-123	#N/A
622-96-8	4-Ethyltoluene	29.958	27.0	111	69-127	ok	70-130	ok	67-129	ok
108-67-8	1,3,5-Trimethylbenzene	27.454	26.3	104	66-129	ok	70-130	ok	67-130	ok
98-83-9	alpha-Methylstyrene	0.000	#N/A	#N/A	0	#N/A	70-130	#N/A	67-128	#N/A
611-14-3	2-Ethyltoluene	0.000	#N/A	#N/A	0	#N/A	70-130	#N/A	66-121	#N/A
95-63-6	1,2,4-Trimethylbenzene	29.735	26.0	114	63-142	ok	70-130	ok	66-132	ok
124-18-5	n-Decane	0.000	#N/A	#N/A	0	#N/A	70-130	#N/A	70-118	#N/A
100-44-7	Benzyl Chloride	60.615	52.5	115	73-145	ok	70-130	ok	50-147	ok
541-73-1	1,3-Dichlorobenzene	30.281	26.3	115	67-136	ok	70-130	ok	65-130	ok
106-46-7	1,4-Dichlorobenzene	28.493	26.5	108	63-134	ok	70-130	ok	60-131	ok
135-98-8	sec-Butylbenzene	28.287	26.3	108	68-130	ok	70-130	ok	68-125	ok
99-87-6	p-Isopropyltoluene	25.530	26.3	97	60-139	ok	70-130	ok	67-130	ok
526-73-8	1,2,3-Trimethylbenzene	0.000	#N/A	#N/A	0	#N/A	70-130	#N/A	60-134	#N/A
95-50-1	1,2-Dichlorobenzene	29.724	26.5	112	64-139	ok	70-130	ok	63-129	ok
5989-27-5	d-Limonene	28.972	26.3	110	63-137	ok	70-130	ok	65-136	ok
96-12-8	1,2-Dibromo-3-Chloropropane	60.890	52.0	117	72-145	ok	70-130	ok	73-133	ok
1120-21-4	n-Undecane	0.000	#N/A	#N/A	0	#N/A	70-130	#N/A	69-123	#N/A
120-82-1	1,2,4-Trichlorobenzene	61.742	51.5	120	62-154	ok	70-130	ok	55-142	ok
91-20-3	Naphthalene	28.466	27.0	105	62-156	ok	70-130	ok	57-138	ok
112-40-3	n-Dodecane	0.000	#N/A	#N/A	0	#N/A	70-130	#N/A	62-147	#N/A
87-68-3	Hexachloro-1,3-butadiene	27.886	26.3	106	55-142	ok	70-130	ok	56-138	ok
108-94-1	Cyclohexanone	0.000	#N/A	#N/A	0	#N/A	70-130	#N/A	61-132	#N/A
98-06-6	tert-Butylbenzene	29.326	26.3	112	61-140	ok	70-130	ok	65-124	ok
104-51-8	n-Butylbenzene	29.689	26.3	113	70-131	ok	70-130	ok	66-130	ok

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	RT
Bromochloromethane (IS1)	11.31
1,4-Difluorobenzene (IS2)	13.43
Chlorobenzene-d5 (IS3)	17.73

Datafile: 12202221.D
Instrument: MS-16
Date: 12/21/2022

CAS No	Analyte	Amount	Spike	%	ALS		70-130		DOD	
		Found	Amount	REC	LCS Limits	Pass/Fail	LCS Limits	Pass/Fail	LCS Limits	Pass/Fail
115-07-1	Propene	26.044	26.5	98	56-128	ok	70-130	ok	57-136	ok
75-71-8	Dichlorodifluoromethane	25.979	26.5	98	71-112	ok	70-130	ok	59-128	ok
74-87-3	Chloromethane	26.902	25.8	104	53-126	ok	70-130	ok	59-132	ok
76-14-2	Freon 114	26.479	25.8	103	62-121	ok	70-130	ok	63-121	ok
75-01-4	Vinyl Chloride	26.256	25.5	103	63-123	ok	70-130	ok	64-127	ok
106-99-0	1,3-Butadiene	28.405	26.5	107	63-135	ok	70-130	ok	66-134	ok
74-83-9	Bromomethane	26.941	25.8	104	71-112	ok	70-130	ok	63-134	ok
75-00-3	Chloroethane	27.035	26.0	104	66-117	ok	70-130	ok	63-127	ok
64-17-5	Ethanol	97.206	88.3	110	57-117	ok	70-130	ok	59-125	ok
75-05-8	Acetonitrile	20.773	22.8	91	59-131	ok	70-130	ok	63-132	ok
107-02-8	Acrolein	48.495	48.5	100	71-123	ok	70-130	ok	62-126	ok
67-64-1	Acetone	126.299	133	95	60-117	ok	70-130	ok	58-128	ok
75-69-4	Trichlorofluoromethane	26.203	26.3	100	71-114	ok	70-130	ok	62-126	ok
67-63-0	Isopropanol	51.264	51.5	100	61-124	ok	70-130	ok	52-125	ok
107-13-1	Acrylonitrile	50.597	51.5	98	65-130	ok	70-130	ok	71-137	ok
75-35-4	1,1-Dichloroethene	27.267	27.0	101	74-114	ok	70-130	ok	61-133	ok
75-65-0	tert-Butanol	62.589	53.3	117	56-135	ok	70-130	ok	24-150	ok
75-09-2	Methylene Chloride	26.553	26.5	100	75-112	ok	70-130	ok	62-115	ok
107-05-1	Allyl Chloride	25.599	26.8	96	57-127	ok	70-130	ok	71-131	ok
76-13-1	Trichlorotrifluoroethane	27.601	27.0	102	73-114	ok	70-130	ok	66-126	ok
75-15-0	Carbon Disulfide	52.264	53.3	98	70-113	ok	70-130	ok	57-134	ok
156-60-5	trans-1,2-Dichloroethene	28.144	27.0	104	76-119	ok	70-130	ok	67-124	ok
75-34-3	1,1-Dichloroethane	27.689	27.0	103	70-114	ok	70-130	ok	68-126	ok
1634-04-4	Methyl tert-Butyl Ether	29.019	26.8	108	72-118	ok	70-130	ok	66-126	ok
108-05-4	Vinyl Acetate	135.313	70.5	192	56-137	FAIL	70-130	FAIL	56-139	FAIL
78-93-3	2-Butanone	59.818	52.3	114	74-121	ok	70-130	ok	67-130	ok
156-59-2	cis-1,2-Dichloroethene	27.048	26.8	101	73-117	ok	70-130	ok	70-121	ok
108-20-3	Diisopropyl Ether	56.784	52.5	108	58-124	ok	70-130	ok	70-117	ok
141-78-6	Ethyl Acetate	87.470	107	82	59-161	ok	70-130	ok	65-128	ok
110-54-3	n-Hexane	26.757	26.5	101	55-130	ok	70-130	ok	63-120	ok
67-66-3	Chloroform	27.209	26.5	103	71-114	ok	70-130	ok	68-123	ok
109-99-9	Tetrahydrofuran	54.578	51.5	106	73-114	ok	70-130	ok	64-123	ok
637-92-3	Ethyl tert-Butyl Ether	57.015	53.5	107	76-119	ok	70-130	ok	61-130	ok
107-06-2	1,2-Dichloroethane	27.468	27.0	102	71-119	ok	70-130	ok	65-128	ok
71-55-6	1,1,1-Trichloroethane	27.663	26.3	105	73-119	ok	70-130	ok	68-125	ok
108-21-4	Isopropyl Acetate	0.000	#N/A	#N/A	0	#N/A	70-130	#N/A	65-129	#N/A
71-36-3	1-Butanol	0.000	#N/A	#N/A	0	#N/A	70-130	#N/A	62-133	#N/A
71-43-2	Benzene	27.940	27.0	103	72-113	ok	70-130	ok	69-119	ok
56-23-5	Carbon Tetrachloride	26.440	25.8	102	67-123	ok	70-130	ok	68-132	ok
110-82-7	Cyclohexane	54.152	52.8	103	70-119	ok	70-130	ok	70-117	ok
994-05-8	tert-Amyl Methyl Ether	58.691	53.5	110	74-120	ok	70-130	ok	62-133	ok
78-87-5	1,2-Dichloropropane	27.075	26.5	102	70-118	ok	70-130	ok	69-123	ok
75-27-4	Bromodichloromethane	28.133	27.0	104	74-119	ok	70-130	ok	72-128	ok
79-01-6	Trichloroethene	28.585	26.5	108	74-115	ok	70-130	ok	71-123	ok
123-91-1	1,4-Dioxane	31.182	26.5	118	77-124	ok	70-130	ok	71-122	ok
540-84-1	Isooctane	26.356	27.0	98	65-120	ok	70-130	ok	68-121	ok
80-62-6	Methyl Methacrylate	57.295	53.3	107	78-126	ok	70-130	ok	70-128	ok
142-82-5	n-Heptane	27.557	26.5	104	70-119	ok	70-130	ok	69-123	ok
10061-01-5	cis-1,3-Dichloropropene	31.113	27.0	115	81-126	ok	70-130	ok	70-128	ok
108-10-1	4-Methyl-2-pentanone	66.249	54.0	123	73-129	ok	70-130	ok	67-130	ok

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LCS Acceptance Criteria

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	RT
Bromochloromethane (IS1)	11.31
1,4-Difluorobenzene (IS2)	13.43
Chlorobenzene-d5 (IS3)	17.73

Datafile: 12202221.D
Instrument: MS-16
Date: 12/21/2022

CAS No	Analyte	Amount	Spike	%	ALS		70-130		DOD	
		Found	Amount	REC	LCS Limits	Pass/Fail	LCS Limits	Pass/Fail	LCS Limits	Pass/Fail
10061-02-6	trans-1,3-Dichloropropene	27.648	25.8	107	80-127	ok	70-130	ok	75-133	ok
79-00-5	1,1,2-Trichloroethane	28.127	26.5	106	78-117	ok	70-130	ok	73-119	ok
108-88-3	Toluene	27.965	26.5	106	70-118	ok	70-130	ok	66-119	ok
591-78-6	2-Hexanone	66.801	53.3	125	74-132	ok	70-130	ok	62-128	ok
124-48-1	Dibromochloromethane	29.894	27.0	111	69-137	ok	70-130	ok	70-130	ok
106-93-4	1,2-Dibromoethane	29.332	26.0	113	76-128	ok	70-130	ok	74-122	ok
123-86-4	Butyl Acetate	64.298	51.3	125	75-134	ok	70-130	ok	65-134	ok
111-65-9	n-Octane	27.849	26.8	104	68-120	ok	70-130	ok	69-121	ok
127-18-4	Tetrachloroethene	29.628	26.5	112	63-130	ok	70-130	ok	66-124	ok
108-90-7	Chlorobenzene	28.121	26.5	106	70-118	ok	70-130	ok	70-119	ok
100-41-4	Ethylbenzene	28.458	26.3	108	71-123	ok	70-130	ok	70-124	ok
179601-23-1	m- & p-Xylene	57.031	52.5	109	67-127	ok	70-130	ok	61-134	ok
75-25-2	Bromoform	28.169	26.8	105	65-149	ok	70-130	ok	66-139	ok
100-42-5	Styrene	30.389	26.5	115	76-132	ok	70-130	ok	73-127	ok
95-47-6	o-Xylene	28.707	26.5	108	69-124	ok	70-130	ok	67-125	ok
111-84-2	n-Nonane	27.366	26.5	103	64-127	ok	70-130	ok	63-128	ok
79-34-5	1,1,2,2-Tetrachloroethane	29.391	26.5	111	69-128	ok	70-130	ok	65-127	ok
98-82-8	Cumene	29.145	26.5	110	69-125	ok	70-130	ok	68-124	ok
80-56-8	alpha-Pinene	28.602	27.3	105	68-129	ok	70-130	ok	62-136	ok
103-65-1	n-Propylbenzene	28.763	26.8	107	70-127	ok	70-130	ok	69-123	ok
620-14-4	3-Ethyltoluene	0.000	#N/A	#N/A	0	#N/A	70-130	#N/A	62-123	#N/A
622-96-8	4-Ethyltoluene	30.470	27.0	113	69-127	ok	70-130	ok	67-129	ok
108-67-8	1,3,5-Trimethylbenzene	28.253	26.3	107	66-129	ok	70-130	ok	67-130	ok
98-83-9	alpha-Methylstyrene	0.000	#N/A	#N/A	0	#N/A	70-130	#N/A	67-128	#N/A
611-14-3	2-Ethyltoluene	0.000	#N/A	#N/A	0	#N/A	70-130	#N/A	66-121	#N/A
95-63-6	1,2,4-Trimethylbenzene	30.291	26.0	117	63-142	ok	70-130	ok	66-132	ok
124-18-5	n-Decane	0.000	#N/A	#N/A	0	#N/A	70-130	#N/A	70-118	#N/A
100-44-7	Benzyl Chloride	59.465	52.5	113	73-145	ok	70-130	ok	50-147	ok
541-73-1	1,3-Dichlorobenzene	30.033	26.3	114	67-136	ok	70-130	ok	65-130	ok
106-46-7	1,4-Dichlorobenzene	28.048	26.5	106	63-134	ok	70-130	ok	60-131	ok
135-98-8	sec-Butylbenzene	28.947	26.3	110	68-130	ok	70-130	ok	68-125	ok
99-87-6	p-Isopropyltoluene	25.857	26.3	98	60-139	ok	70-130	ok	67-130	ok
526-73-8	1,2,3-Trimethylbenzene	0.000	#N/A	#N/A	0	#N/A	70-130	#N/A	60-134	#N/A
95-50-1	1,2-Dichlorobenzene	29.901	26.5	113	64-139	ok	70-130	ok	63-129	ok
5989-27-5	d-Limonene	30.288	26.3	115	63-137	ok	70-130	ok	65-136	ok
96-12-8	1,2-Dibromo-3-Chloropropane	59.702	52.0	115	72-145	ok	70-130	ok	73-133	ok
1120-21-4	n-Undecane	0.000	#N/A	#N/A	0	#N/A	70-130	#N/A	69-123	#N/A
120-82-1	1,2,4-Trichlorobenzene	58.478	51.5	114	62-154	ok	70-130	ok	55-142	ok
91-20-3	Naphthalene	25.866	27.0	96	62-156	ok	70-130	ok	57-138	ok
112-40-3	n-Dodecane	0.000	#N/A	#N/A	0	#N/A	70-130	#N/A	62-147	#N/A
87-68-3	Hexachloro-1,3-butadiene	28.036	26.3	107	55-142	ok	70-130	ok	56-138	ok
108-94-1	Cyclohexanone	0.000	#N/A	#N/A	0	#N/A	70-130	#N/A	61-132	#N/A
98-06-6	tert-Butylbenzene	29.958	26.3	114	61-140	ok	70-130	ok	65-124	ok
104-51-8	n-Butylbenzene	30.112	26.3	114	70-131	ok	70-130	ok	66-130	ok

Method Path : I:\MS16\METHODS\
 Method File : C16122022.M
 Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 Last Update : Wed Dec 21 05:02:49 2022
 Response Via : Initial Calibration

Calibration Files

0.40=12202223.D 1.0 =12202224.D 2.5 =12202225.D 5.0 =12202226.D 25 =12202227.D 50 =12202228.D 100 =12202229.D

	Compound	0.40	1.0	2.5	5.0	25	50	100	Avg	%RSD
1) IR	Bromochloromethane...	-----ISTD-----								
2) T	Chloropentaflu...	1.463	1.324	1.197	1.174	1.178	1.182	1.135	1.236	9.41
3) T	1,1,1,2-Tetra...	1.203	1.069	0.976	0.951	0.948	0.933	0.853	0.991	11.45
4) T	1,1-Difluoroet...	1.178	1.026	0.948	0.903	0.932	0.903	0.741	0.947	14.04
5) T	Chlorodifluoro...	0.365	0.324	0.302	0.302	0.298	0.296	0.276	0.309	9.14
6) T	1-Chloro-1,1-D...	2.526	2.237	2.096	2.076	2.031	2.016	1.933	2.131	9.26
7) T	Dichlorofluoro...	2.727	2.394	2.220	2.168	2.150	2.170	2.093	2.274	9.72
8) T	Vinylbromide	0.998	0.915	0.857	0.847	0.871	0.883	0.869	0.891	5.79
9) T	2,2-Dichloro-1...	1.755	1.543	1.425	1.396	1.398	1.402	1.381	1.471	9.27
10) T	2-Methylbutane	1.687	1.459	1.340	1.322	1.329	1.352	1.313	1.400	9.69
11) T	Methyl Acetate	3.600	3.220	3.009	2.904	2.979	3.011	2.954	3.097	7.85
12) T	2-Methylpentane	1.438	1.257	1.182	1.153	1.175	1.194	1.202	1.229	7.97
13) T	2,2-Dichloropr...	0.649	0.578	0.591	0.576	0.716	0.719	0.600	0.633	9.94
14) T	1,1-Dichloropr...	1.851	1.654	1.583	1.542	1.568	1.600	1.590	1.627	6.43
15) T	Thiophene	2.765	2.460	2.343	2.297	2.388	2.437	2.428	2.445	6.21
16) IR	1,4-Difluorobenzen...	-----ISTD-----								
17) T	2,3-Dimethylpe...	0.629	0.559	0.529	0.515	0.516	0.523	0.526	0.543	7.57
18) T	Dibromomethane	0.190	0.164	0.157	0.158	0.162	0.166	0.170	0.167	6.70
19) IR	Chlorobenzene-d5 (...)	-----ISTD-----								
20) T	Methyl Cyclohe...	2.542	2.158	2.014	1.967	1.998	2.032	2.031	2.106	9.56
21) T	1,3-Dichloropr...	2.273	1.937	1.918	1.854	1.889	1.919	1.926	1.959	7.21
22) T	1,1,1,2-Tetrac...	1.328	1.134	1.069	1.051	1.074	1.106	1.123	1.126	8.34
23) T	1-Chlorohexane	2.053	1.771	1.725	1.713	1.768	1.841	1.866	1.820	6.44
24) T	1,2,3-Trichlor...	2.144	1.902	1.768	1.741	1.764	1.809	1.840	1.853	7.54
25) T	Bromobenzene	2.598	2.218	2.086	2.058	2.111	2.193	2.221	2.212	8.24
26) T	2-Chlorotoluene	4.606	3.994	3.793	3.706	3.885	4.044	4.089	4.017	7.32
27) T	4-Chlorotoluene	4.755	4.060	3.878	3.879	4.136	4.243	4.294	4.178	7.22
28) T	Indane	5.395	4.700	4.523	4.499	4.933	5.115	5.074	4.891	6.81
29) T	Indene	3.962	3.621	3.537	3.606	4.312	4.528	4.593	4.023	11.29
30) T	1,2,4,5-Tetram...	5.247	4.820	4.764	4.507	5.499	5.667	5.420	5.132	8.49
31) T	1,2,3,4-Tetram...	5.270	4.504	4.286	4.646	4.955	5.297	5.274	4.890	8.49
32) T	1,2,3,5-Tetram...	4.976	4.395	4.306	4.308	4.971	5.231	5.180	4.767	8.71
33) T	1,2,3-Trichlor...	1.734	1.607	1.565	1.600	1.857	1.973	2.044	1.769	10.88

(#) = Out of Range

12/21/22

Std#:

Working Standards

(1) 200 ng/L Working Std. ID:

S35-12192206

(2) 20 ng/L Working Std. ID:

S35-12192207

Injection Amts.(L):	0.020	0.050	0.125	0.250	0.125	0.250	0.500
Standards Used:	(2)	(2)	(2)	(2)	(1)	(1)	(1)
Compounds/ Concentrations (ng):	0.4ng	1.0ng	2.5ng	5.0ng	25ng	50ng	100ng
Vinyl bromide	0.396	0.990	2.475	4.95	24.75	49.5	99
2-Methylbutane (Isopentane)	0.448	1.120	2.800	5.60	28.00	56.0	112
2-Methylpentane	0.392	0.980	2.450	4.90	24.50	49.0	98
2,2-Dichloropropane	0.312	0.780	1.950	3.90	19.50	39.0	78
1,1-Dichloropropene	0.408	1.020	2.550	5.10	25.50	51.0	102
Thiophene	0.404	1.010	2.525	5.05	25.25	50.5	101
2,3-Dimethylpentane	0.416	1.040	2.600	5.20	26.00	52.0	104
Dibromomethane	0.408	1.020	2.550	5.10	25.50	51.0	102
1,3-Dichloropropane	0.420	1.050	2.625	5.25	26.25	52.5	105
1,1,1,2-Tetrachloroethane	0.312	0.780	1.950	3.90	19.50	39.0	78
1-Chlorohexane	0.412	1.030	2.575	5.15	25.75	51.5	103
1,2,3-Trichloropropane	0.428	1.070	2.675	5.35	26.75	53.5	107
Bromobenzene	0.424	1.060	2.650	5.30	26.50	53.0	106
2-Chlorotoluene	0.440	1.100	2.750	5.50	27.50	55.0	110
4-Chlorotoluene	0.412	1.030	2.575	5.15	25.75	51.5	103
Indane	0.400	1.000	2.500	5.00	25.00	50.0	100
Indene	0.384	0.960	2.400	4.80	24.00	48.0	96
1,2,4,5-Tetramethylbenzene	0.408	1.020	2.550	5.10	25.50	51.0	102
1,2,3,4-Tetramethylbenzene	0.412	1.030	2.575	5.15	25.75	51.5	103
1,2,3,5-Tetramethylbenzene	0.408	1.020	2.550	5.10	25.50	51.0	102
1,2,3-Trichlorobenzene	0.392	0.980	2.450	4.90	24.50	49.0	98
Chloropentafluoroethane (R115)	0.432	1.080	2.700	5.40	27.00	54.0	108
2,2-Dichloro-1,1,1-trifluoroethane (R123)	0.432	1.080	2.700	5.40	27.00	54.0	108
1,1-Difluoroethane (R152a)	0.428	1.070	2.675	5.35	26.75	53.5	107
Chlorodifluoromethane (R22)	0.432	1.080	2.700	5.40	27.00	54.0	108
Dichlorofluoromethane (R21)	0.408	1.020	2.550	5.10	25.50	51.0	102
1,1,1,2-Tetrafluoroethane (R134a)	0.408	1.020	2.550	5.10	25.50	51.0	102
1-Chloro-1,1-Difluoroethane	0.420	1.050	2.625	5.25	26.25	52.5	105
Methyl Acetate	0.352	0.880	2.200	4.40	22.00	44.0	88
Methylcyclohexane	0.424	1.060	2.650	5.30	26.50	53.0	106
Chlorotrifluoroethene	0.400	1.000	2.500	5.00	25.00	50.0	100

Method : I:\MS16\METHODS\C16122022.M (RTE Integrator)
 Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 Last Update : Wed Dec 21 05:02:49 2022
 Response via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.40	0	13	I:\MS16\DATA\2022_12\20\12202223.D
2	1.0	1	13	I:\MS16\DATA\2022_12\20\12202224.D
3	2.5	3	13	I:\MS16\DATA\2022_12\20\12202225.D
4	5.0	5	13	I:\MS16\DATA\2022_12\20\12202226.D
5	25	26	13	I:\MS16\DATA\2022_12\20\12202227.D
6	50	52	13	I:\MS16\DATA\2022_12\20\12202228.D
7	100	104	13	I:\MS16\DATA\2022_12\20\12202229.D

#	ID	Update Time	Quant Time	Acquisition Time
1	0.40	Dec 21 04:49 2022	Dec 21 04:47 2022	21 Dec 2022 1:12
2	1.0	Dec 21 04:50 2022	Dec 21 04:47 2022	21 Dec 2022 1:46
3	2.5	Dec 21 04:50 2022	Dec 21 04:47 2022	21 Dec 2022 2:20
4	5.0	Dec 21 04:50 2022	Dec 21 04:47 2022	21 Dec 2022 2:54
5	25	Dec 21 04:50 2022	Dec 21 04:47 2022	21 Dec 2022 3:28
6	50	Dec 21 04:50 2022	Dec 21 04:47 2022	21 Dec 2022 4:02
7	100	Dec 21 05:02 2022	Dec 21 05:02 2022	21 Dec 2022 4:36

 1/4/23

C16122022.M

Wed Jan 04 09:10:49 2023

Data File : I:\MS16\DATA\2022_12\20\12202223.D
 Acq On : 21 Dec 2022 1:12
 Sample : 0.4ng C16122022 ICAL Std
 Misc : S35-11092201/S35-12192207 (1/18)

Vial: 11
 Operator: WA
 Inst : GCMS-16

Quant Time: Dec 21 04:47:17 2022

12/21/22

Quant Method : I:\MS16\METHODS\C16122022.M

Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD

QLast Update : Wed Dec 21 04:46:40 2022

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.29	130	160841	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	13.42	114	747769	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	17.72	54	150928	12.500	ng	0.00

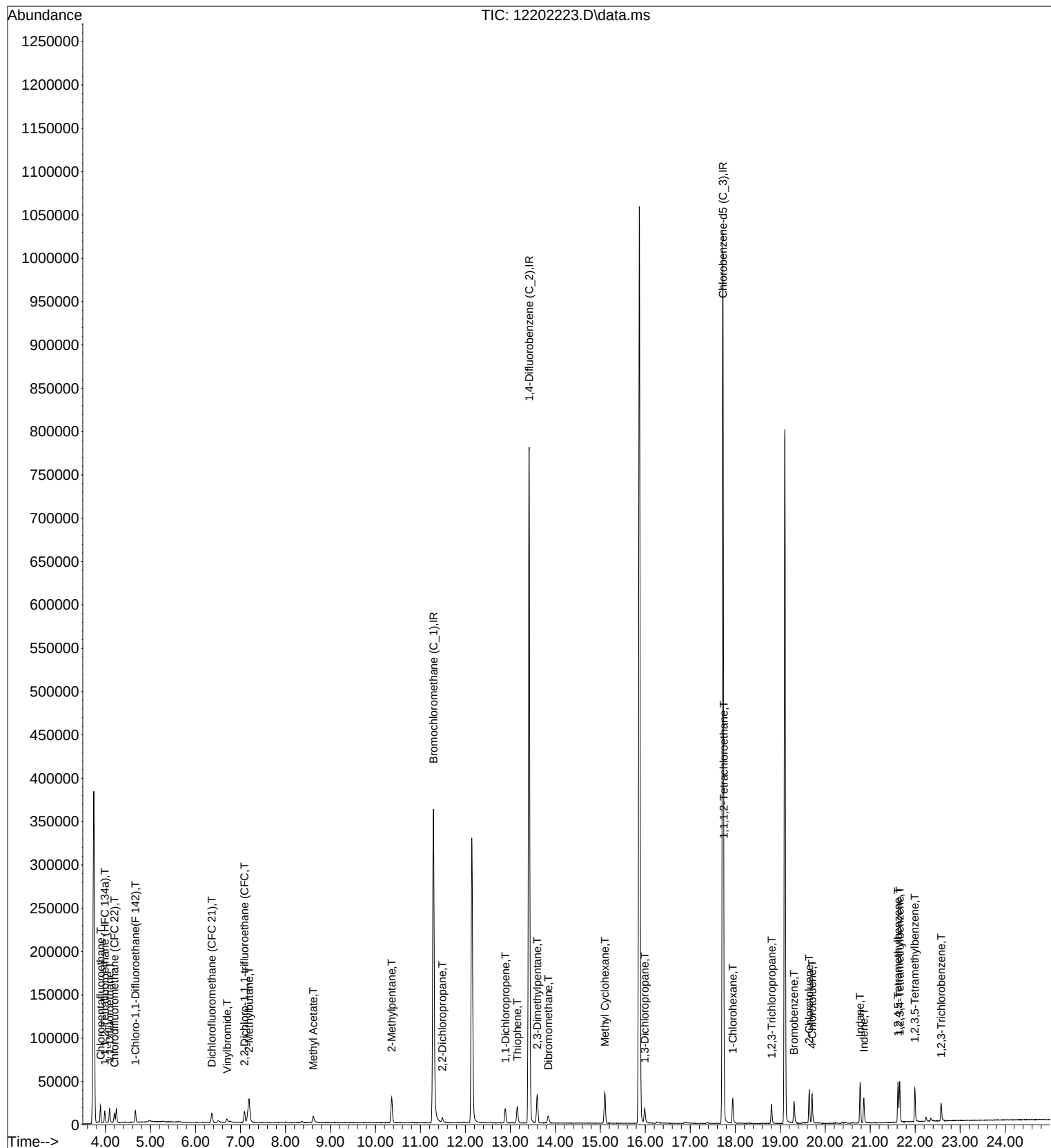
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.89	85	7832	0.468	ng	97
3) 1,1,1,2-Tetrafluoroeth...	3.98	83	6317	0.468	ng	98
4) 1,1-Difluoroethane	4.09	65	6427	0.537	ng	99
5) Chlorodifluoromethane ...	4.20	67	1990	0.476	ng	89
6) 1-Chloro-1,1-Difluoroe...	4.66	65	13521	0.425	ng	99
7) Dichlorofluoromethane ...	6.36	67	14178	0.488	ng	97
8) Vinylbromide	6.70	108	5083	0.439	ng	96
9) 2,2-Dichloro-1,1,1-tri...	7.09	83	9483	0.508	ng	99
10) 2-Methylbutane	7.19	57	8856	0.512	ng	91
11) Methyl Acetate	8.62	43	17972	0.456	ng	# 95
12) 2-Methylpentane	10.36	71	7403	0.518	ng	96
13) 2,2-Dichloropropane	11.49	77	3309	0.204	ng	# 94
14) 1,1-Dichloropropene	12.89	75	9909	0.512	ng	96
15) Thiophene	13.15	84	14371	0.486	ng	99
17) 2,3-Dimethylpentane	13.59	56	15661	0.471	ng	96
18) Dibromomethane	13.84	174	4916	0.426	ng	97
20) Methyl Cyclohexane	15.10	55	13136	0.582	ng	96
21) 1,3-Dichloropropane	15.99	76	11529	0.567	ng	98
22) 1,1,1,2-Tetrachloroethane	17.75	131	5645	0.423	ng	98
23) 1-Chlorohexane	17.94	91	10212	0.538	ng	100
24) 1,2,3-Trichloropropane	18.81	75	10874	0.590	ng	97
25) Bromobenzene	19.31	77	13177	0.599	ng	92
26) 2-Chlorotoluene	19.64	91	23582	0.577	ng	97
27) 4-Chlorotoluene	19.71	91	23193	0.556	ng	98
28) Indane	20.78	117	25535	0.497	ng	98
29) Indene	20.86	115	17795	0.445	ng	99
30) 1,2,4,5-Tetramethylben...	21.62	119	25340	0.546	ng	99
31) 1,2,3,4-Tetramethylben...	21.66	119	25705	0.549	ng	98
32) 1,2,3,5-Tetramethylben...	21.99	119	23791	0.562	ng	96
33) 1,2,3-Trichlorobenzene	22.58	180	8377	0.553	ng	97

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

Data File : I:\MS16\DATA\2022_12\20\12202223.D
Acq On : 21 Dec 2022 1:12
Sample : 0.4ng C16122022 ICAL Std
Misc : S35-11092201/S35-12192207 (1/18)

Vial: 11
Operator: WA
Inst : GCMS-16

Quant Time: Dec 21 04:47:17 2022
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 04:46:40 2022
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS16\DATA\2022_12\20\12202224.D
 Acq On : 21 Dec 2022 1:46
 Sample : 1.0ng C16122022 ICAL Std
 Misc : S35-11092201/S35-12192207 (1/18)

Vial: 11
 Operator: WA
 Inst : GCMS-16

Quant Time: Dec 21 04:47:18 2022

Quant Method : I:\MS16\METHODS\C16122022.M

Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD

QLast Update : Wed Dec 21 04:46:40 2022

Response via : Initial Calibration

DataAcq Meth: T015.M

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.29	130	154878	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	13.42	114	718170	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	17.72	54	147624	12.500	ng	0.00

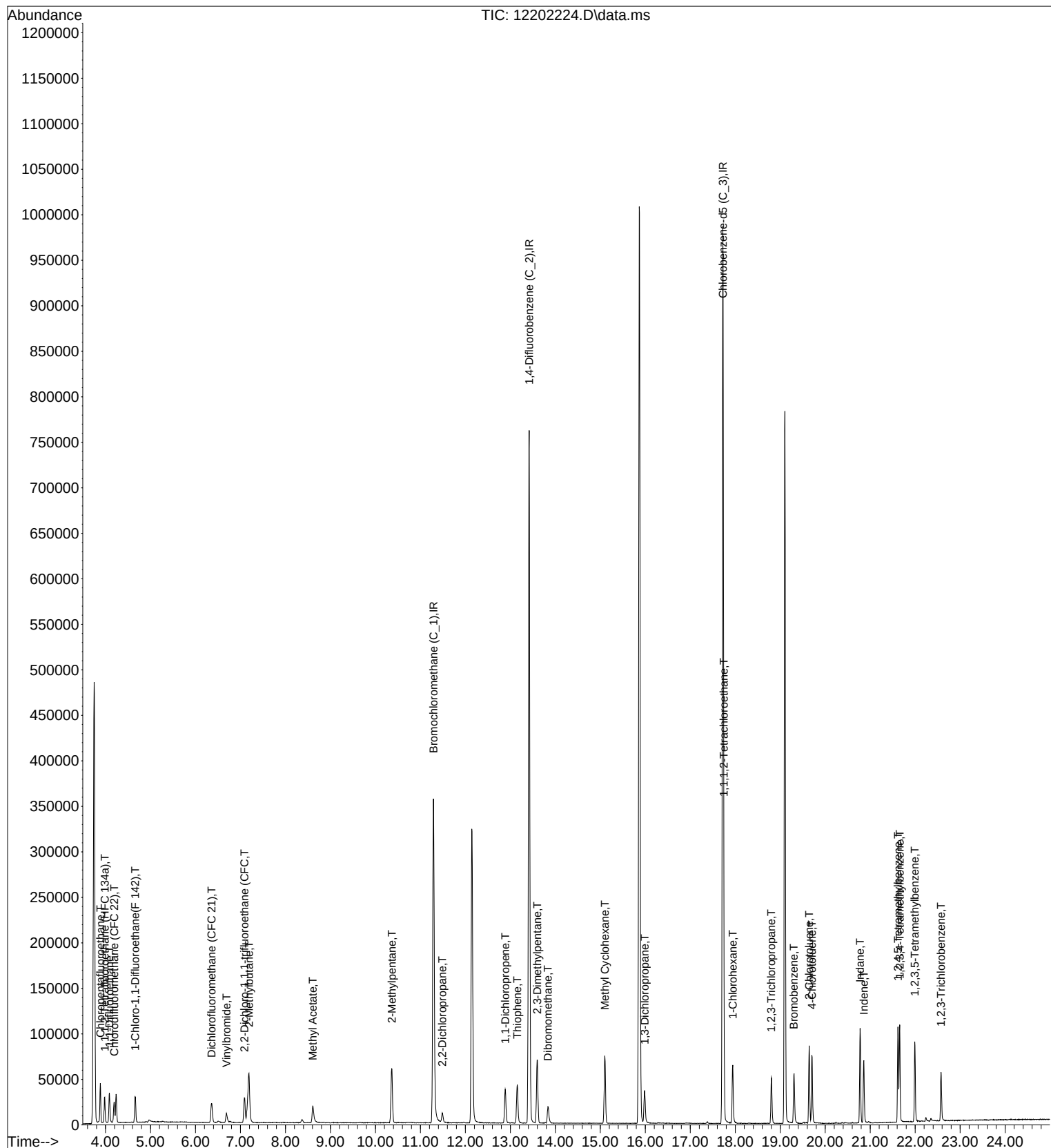
Target Compounds						Qvalue
2) Chloropentafluoroethane	3.88	85	17067	1.059	ng	100
3) 1,1,1,2-Tetrafluoroeth...	3.98	83	13510	1.040	ng	98
4) 1,1-Difluoroethane	4.09	65	13480	1.169	ng	97
5) Chlorodifluoromethane ...	4.19	67	4258	1.057	ng	94
6) 1-Chloro-1,1-Difluoro...	4.66	65	28825	0.942	ng	100
7) Dichlorofluoromethane ...	6.36	67	29953	1.071	ng	99
8) Vinylbromide	6.69	108	11221	1.006	ng	99
9) 2,2-Dichloro-1,1,1-tri...	7.09	83	20076	1.117	ng	100
10) 2-Methylbutane	7.19	57	18435	1.107	ng	93
11) Methyl Acetate	8.61	43	38700	1.019	ng	98
12) 2-Methylpentane	10.37	71	15580	1.132	ng	96
13) 2,2-Dichloropropane	11.49	77	7087	0.453	ng	97
14) 1,1-Dichloropropene	12.88	75	21308	1.143	ng	97
15) Thiophene	13.15	84	30779	1.080	ng	99
17) 2,3-Dimethylpentane	13.60	56	33426	1.046	ng	98
18) Dibromomethane	13.84	174	10206	0.922	ng	99
20) Methyl Cyclohexane	15.10	55	27275	1.235	ng	98
21) 1,3-Dichloropropane	15.99	76	24019	1.208	ng	96
22) 1,1,1,2-Tetrachloroethane	17.75	131	11787	0.902	ng	99
23) 1-Chlorohexane	17.94	91	21538	1.160	ng	97
24) 1,2,3-Trichloropropane	18.80	75	23587	1.308	ng	97
25) Bromobenzene	19.30	77	27499	1.277	ng	95
26) 2-Chlorotoluene	19.64	91	49995	1.251	ng	98
27) 4-Chlorotoluene	19.70	91	48426	1.187	ng	100
28) Indane	20.78	117	54392	1.081	ng	100
29) Indene	20.86	115	39772	1.018	ng	100
30) 1,2,4,5-Tetramethylben...	21.62	119	56923	1.255	ng	99
31) 1,2,3,4-Tetramethylben...	21.66	119	53720	1.173	ng	100
32) 1,2,3,5-Tetramethylben...	21.99	119	51386	1.241	ng	97
33) 1,2,3-Trichlorobenzene	22.57	180	18984	1.282	ng	99

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

Data File : I:\MS16\DATA\2022_12\20\12202224.D
Acq On : 21 Dec 2022 1:46
Sample : 1.0ng C16122022 ICAL Std
Misc : S35-11092201/S35-12192207 (1/18)

Vial: 11
Operator: WA
Inst : GCMS-16

Quant Time: Dec 21 04:47:18 2022
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 04:46:40 2022
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS16\DATA\2022_12\20\12202225.D
 Acq On : 21 Dec 2022 2:20
 Sample : 2.5ng C16122022 ICAL Std
 Misc : S35-11092201/S35-12192207 (1/18)

Vial: 11
 Operator: WA
 Inst : GCMS-16

Quant Time: Dec 21 04:47:19 2022
 Quant Method : I:\MS16\METHODS\C16122022.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Dec 21 04:46:40 2022
 Response via : Initial Calibration
 DataAcq Meth: T015.M

 12/21/22

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.29	130	152943	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	13.42	114	711297	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	17.72	54	146872	12.500	ng	0.00

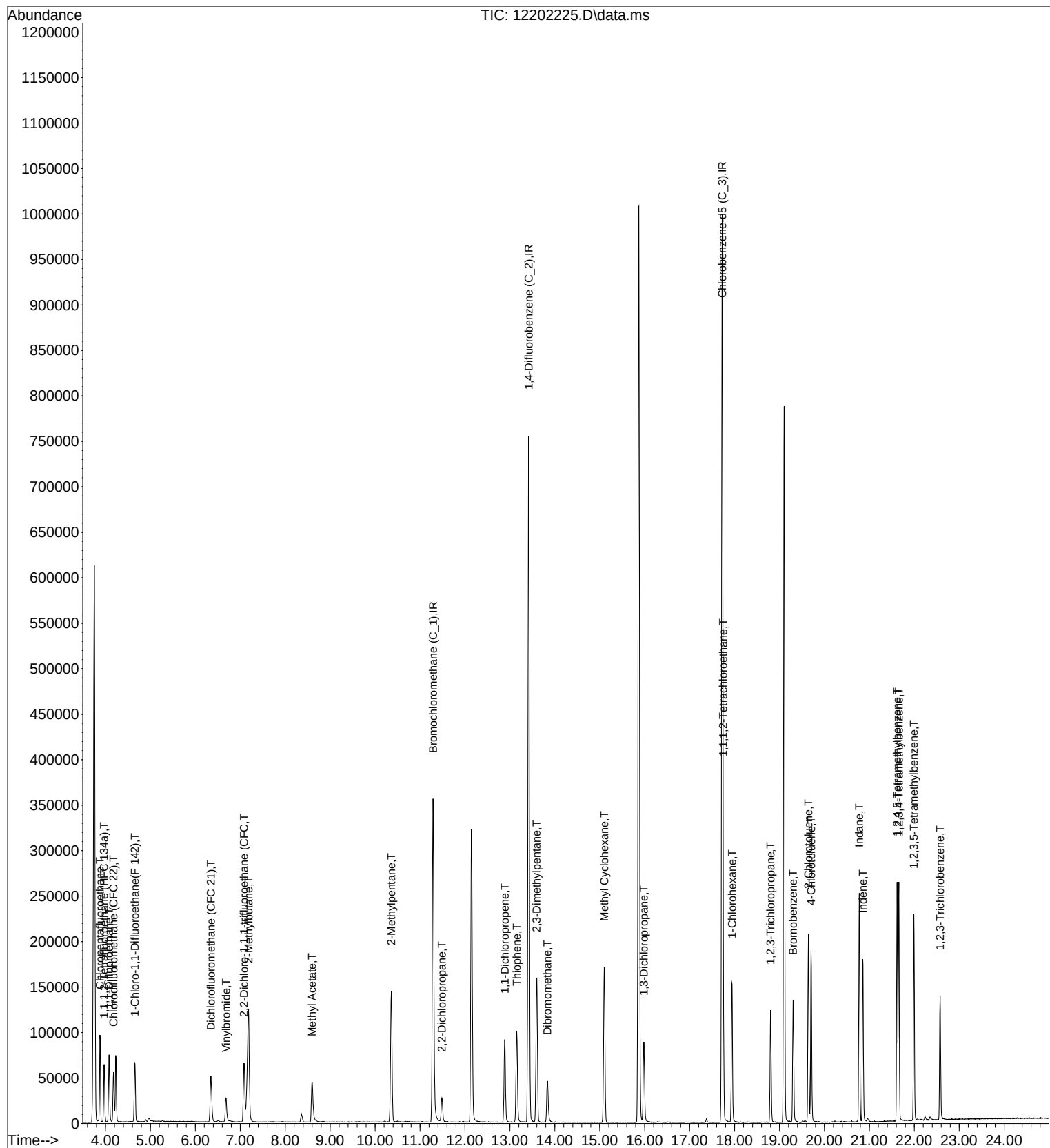
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.88	85	38091	2.395	ng	99
3) 1,1,1,2-Tetrafluoroeth...	3.97	83	30452	2.373	ng	100
4) 1,1-Difluoroethane	4.08	65	30741	2.699	ng	98
5) Chlorodifluoromethane ...	4.18	67	9800	2.465	ng	95
6) 1-Chloro-1,1-Difluoroe...	4.65	65	66683	2.206	ng	100
7) Dichlorofluoromethane ...	6.35	67	68578	2.483	ng	99
8) Vinylbromide	6.68	108	25943	2.356	ng	99
9) 2,2-Dichloro-1,1,1-tri...	7.08	83	45753	2.577	ng	100
10) 2-Methylbutane	7.18	57	41810	2.543	ng	93
11) Methyl Acetate	8.60	43	89283	2.380	ng	98
12) 2-Methylpentane	10.36	71	36146	2.659	ng	96
13) 2,2-Dichloropropane	11.49	77	17899	1.160	ng	98
14) 1,1-Dichloropropene	12.88	75	50355	2.735	ng	98
15) Thiophene	13.15	84	72386	2.573	ng	100
17) 2,3-Dimethylpentane	13.59	56	78242	2.473	ng	98
18) Dibromomethane	13.84	174	24162	2.204	ng	98
20) Methyl Cyclohexane	15.10	55	63286	2.881	ng	98
21) 1,3-Dichloropropane	15.98	76	59146	2.990	ng	99
22) 1,1,1,2-Tetrachloroethane	17.75	131	27635	2.126	ng	99
23) 1-Chlorohexane	17.94	91	52201	2.827	ng	99
24) 1,2,3-Trichloropropane	18.80	75	54537	3.041	ng	99
25) Bromobenzene	19.30	77	64337	3.003	ng	97
26) 2-Chlorotoluene	19.64	91	118103	2.970	ng	99
27) 4-Chlorotoluene	19.70	91	115066	2.834	ng	100
28) Indane	20.78	117	130200	2.602	ng	99
29) Indene	20.85	115	96612	2.485	ng	99
30) 1,2,4,5-Tetramethylben...	21.62	119	139934	3.100	ng	99
31) 1,2,3,4-Tetramethylben...	21.66	119	127151	2.790	ng	100
32) 1,2,3,5-Tetramethylben...	21.99	119	125209	3.040	ng	98
33) 1,2,3-Trichlorobenzene	22.57	180	45973	3.121	ng	99

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

Data File : I:\MS16\DATA\2022_12\20\12202225.D
Acq On : 21 Dec 2022 2:20
Sample : 2.5ng C16122022 ICAL Std
Misc : S35-11092201/S35-12192207 (1/18)

Vial: 11
Operator: WA
Inst : GCMS-16

Quant Time: Dec 21 04:47:19 2022
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 04:46:40 2022
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS16\DATA\2022_12\20\12202226.D
 Acq On : 21 Dec 2022 2:54
 Sample : 5.0ng C16122022 ICAL Std
 Misc : S35-11092201/S35-12192207 (1/18)

Vial: 11
 Operator: WA
 Inst : GCMS-16

Quant Time: Dec 21 04:47:20 2022

Quant Method : I:\MS16\METHODS\C16122022.M

Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD

QLast Update : Wed Dec 21 04:46:40 2022

Response via : Initial Calibration

DataAcq Meth: T015.M

12/21/22

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.29	130	150124	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	13.42	114	697064	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	17.72	54	145135	12.500	ng	0.00

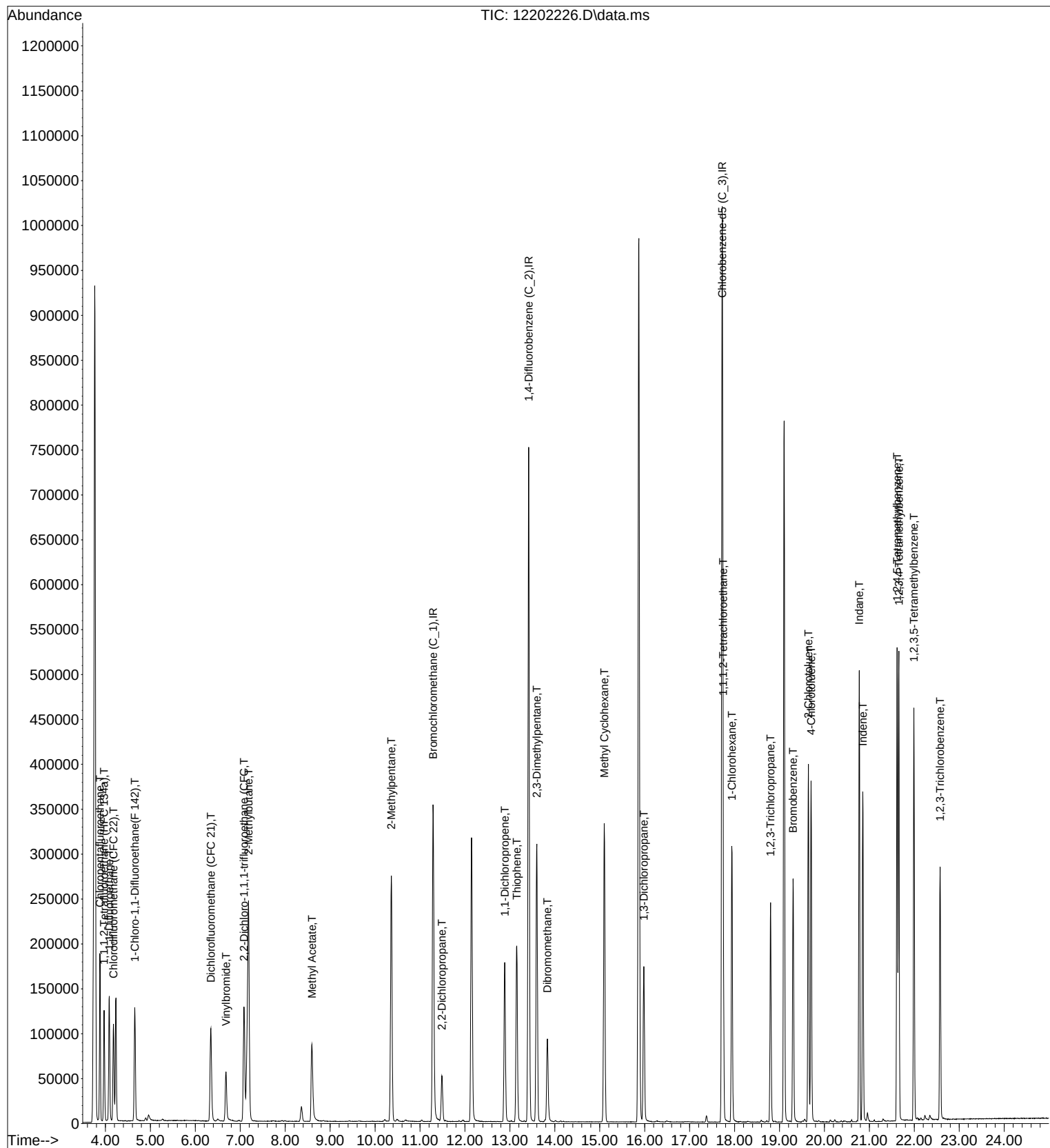
Target Compounds						Qvalue
2) Chloropentafluoroethane	3.88	85	73302	4.695	ng	99
3) 1,1,1,2-Tetrafluoroeth...	3.97	83	58230	4.624	ng	100
4) 1,1-Difluoroethane	4.09	65	57470	5.141	ng	100
5) Chlorodifluoromethane ...	4.18	67	19229	4.927	ng	99
6) 1-Chloro-1,1-Difluoroe...	4.65	65	129666	4.371	ng	100
7) Dichlorofluoromethane ...	6.35	67	131480	4.849	ng	100
8) Vinylbromide	6.68	108	50333	4.657	ng	99
9) 2,2-Dichloro-1,1,1-tri...	7.08	83	88025	5.052	ng	100
10) 2-Methylbutane	7.18	57	80963	5.017	ng	94
11) Methyl Acetate	8.60	43	169177	4.595	ng	99
12) 2-Methylpentane	10.36	71	69253	5.191	ng	97
13) 2,2-Dichloropropane	11.49	77	34267	2.262	ng	99
14) 1,1-Dichloropropene	12.88	75	96311	5.330	ng	98
15) Thiophene	13.15	84	139319	5.044	ng	99
17) 2,3-Dimethylpentane	13.60	56	149438	4.820	ng	98
18) Dibromomethane	13.84	174	47618	4.431	ng	100
20) Methyl Cyclohexane	15.10	55	122208	5.630	ng	99
21) 1,3-Dichloropropane	15.98	76	113044	5.782	ng	99
22) 1,1,1,2-Tetrachloroethane	17.75	131	53675	4.179	ng	100
23) 1-Chlorohexane	17.94	91	102427	5.613	ng	99
24) 1,2,3-Trichloropropane	18.80	75	106106	5.987	ng	99
25) Bromobenzene	19.30	77	125439	5.925	ng	97
26) 2-Chlorotoluene	19.64	91	228029	5.803	ng	99
27) 4-Chlorotoluene	19.70	91	227425	5.669	ng	100
28) Indane	20.78	117	255978	5.176	ng	99
29) Indene	20.85	115	194714	5.069	ng	99
30) 1,2,4,5-Tetramethylben...	21.62	119	261656	5.867	ng	100
31) 1,2,3,4-Tetramethylben...	21.66	119	272429	6.050	ng	100
32) 1,2,3,5-Tetramethylben...	21.99	119	247586	6.084	ng	100
33) 1,2,3-Trichlorobenzene	22.57	180	92898	6.383	ng	99

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

Data File : I:\MS16\DATA\2022_12\20\12202226.D
Acq On : 21 Dec 2022 2:54
Sample : 5.0ng C16122022 ICAL Std
Misc : S35-11092201/S35-12192207 (1/18)

Vial: 11
Operator: WA
Inst : GCMS-16

Quant Time: Dec 21 04:47:20 2022
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 04:46:40 2022
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS16\DATA\2022_12\20\12202227.D
 Acq On : 21 Dec 2022 3:28
 Sample : 25ng C16122022 ICAL Std
 Misc : S35-11092201/S35-12192206 (1/18)

Vial: 12
 Operator: WA
 Inst : GCMS-16

Quant Time: Dec 21 04:47:21 2022
 Quant Method : I:\MS16\METHODS\C16122022.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Dec 21 04:46:40 2022
 Response via : Initial Calibration
 DataAcq Meth:T015.M

 12/21/22

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.30	130	150737	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	13.42	114	712000	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	17.72	54	146277	12.500	ng	0.00

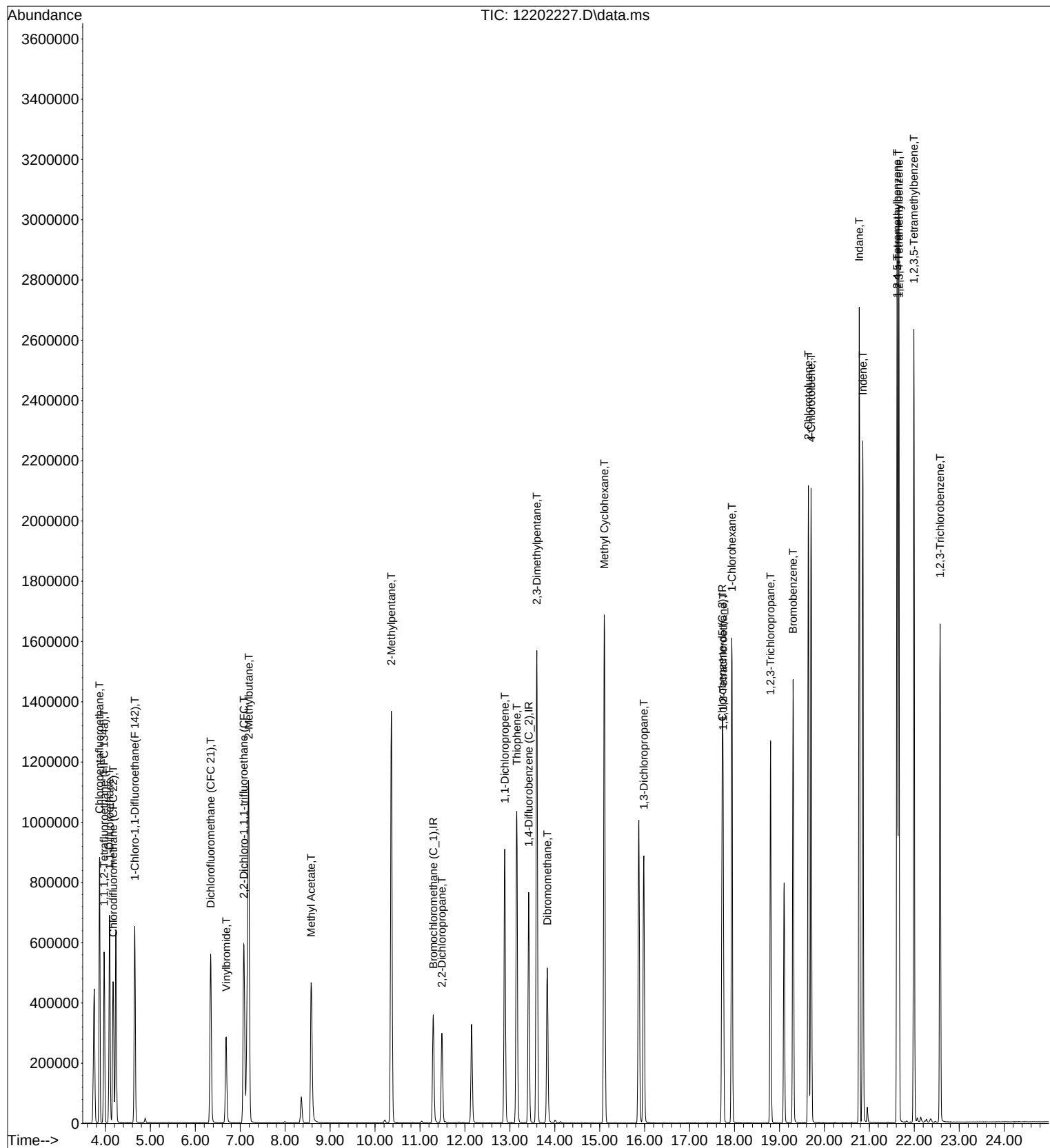
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.87	85	369302	23.556	ng	100
3) 1,1,1,2-Tetrafluoroeth...	3.97	83	291666	23.064	ng	100
4) 1,1-Difluoroethane	4.09	65	297960	26.546	ng	100
5) Chlorodifluoromethane ...	4.17	67	95348	24.329	ng	100
6) 1-Chloro-1,1-Difluoro...	4.65	65	636895	21.380	ng	100
7) Dichlorofluoromethane ...	6.34	67	654539	24.042	ng	100
8) Vinylbromide	6.69	108	260051	23.964	ng	100
9) 2,2-Dichloro-1,1,1-tri...	7.08	83	442427	25.289	ng	100
10) 2-Methylbutane	7.19	57	408602	25.216	ng	100
11) Methyl Acetate	8.58	43	871180	23.564	ng	100
12) 2-Methylpentane	10.36	71	354116	26.434	ng	100
13) 2,2-Dichloropropane	11.49	77	213832	14.056	ng	100
14) 1,1-Dichloropropene	12.88	75	491470	27.086	ng	100
15) Thiophene	13.15	84	727230	26.224	ng	100
17) 2,3-Dimethylpentane	13.60	56	764511	24.139	ng	100
18) Dibromomethane	13.84	174	249699	22.750	ng	100
20) Methyl Cyclohexane	15.10	55	625567	28.595	ng	100
21) 1,3-Dichloropropane	15.98	76	580119	29.441	ng	100
22) 1,1,1,2-Tetrachloroethane	17.75	131	276510	21.358	ng	100
23) 1-Chlorohexane	17.94	91	532671	28.963	ng	100
24) 1,2,3-Trichloropropane	18.80	75	541860	30.335	ng	100
25) Bromobenzene	19.30	77	648584	30.398	ng	100
26) 2-Chlorotoluene	19.64	91	1204624	30.415	ng	100
27) 4-Chlorotoluene	19.70	91	1222219	30.227	ng	100
28) Indane	20.78	117	1414408	28.379	ng	100
29) Indene	20.85	115	1173087	30.299	ng	100
30) 1,2,4,5-Tetramethylben...	21.62	119	1608633	35.786	ng	100
31) 1,2,3,4-Tetramethylben...	21.66	119	1464044	32.261	ng	100
32) 1,2,3,5-Tetramethylben...	21.99	119	1439817	35.103	ng	100
33) 1,2,3-Trichlorobenzene	22.57	180	543215	37.033	ng	100

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

Data File : I:\MS16\DATA\2022_12\20\12202227.D
Acq On : 21 Dec 2022 3:28
Sample : 25ng C16122022 ICAL Std
Misc : S35-11092201/S35-12192206 (1/18)

Vial: 12
Operator: WA
Inst : GCMS-16

Quant Time: Dec 21 04:47:21 2022
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 04:46:40 2022
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS16\DATA\2022_12\20\12202228.D
 Acq On : 21 Dec 2022 4:02
 Sample : 50ng C16122022 ICAL Std
 Misc : S35-11092201/S35-12192206 (1/18)

Vial: 12
 Operator: WA
 Inst : GCMS-16

Quant Time: Dec 21 04:47:22 2022

Quant Method : I:\MS16\METHODS\C16122022.M

Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD

QLast Update : Wed Dec 21 04:46:40 2022

Response via : Initial Calibration

DataAcq Meth: T015.M

12/21/22

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.30	130	149344	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	13.42	114	710549	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	17.72	54	144343	12.500	ng	0.00

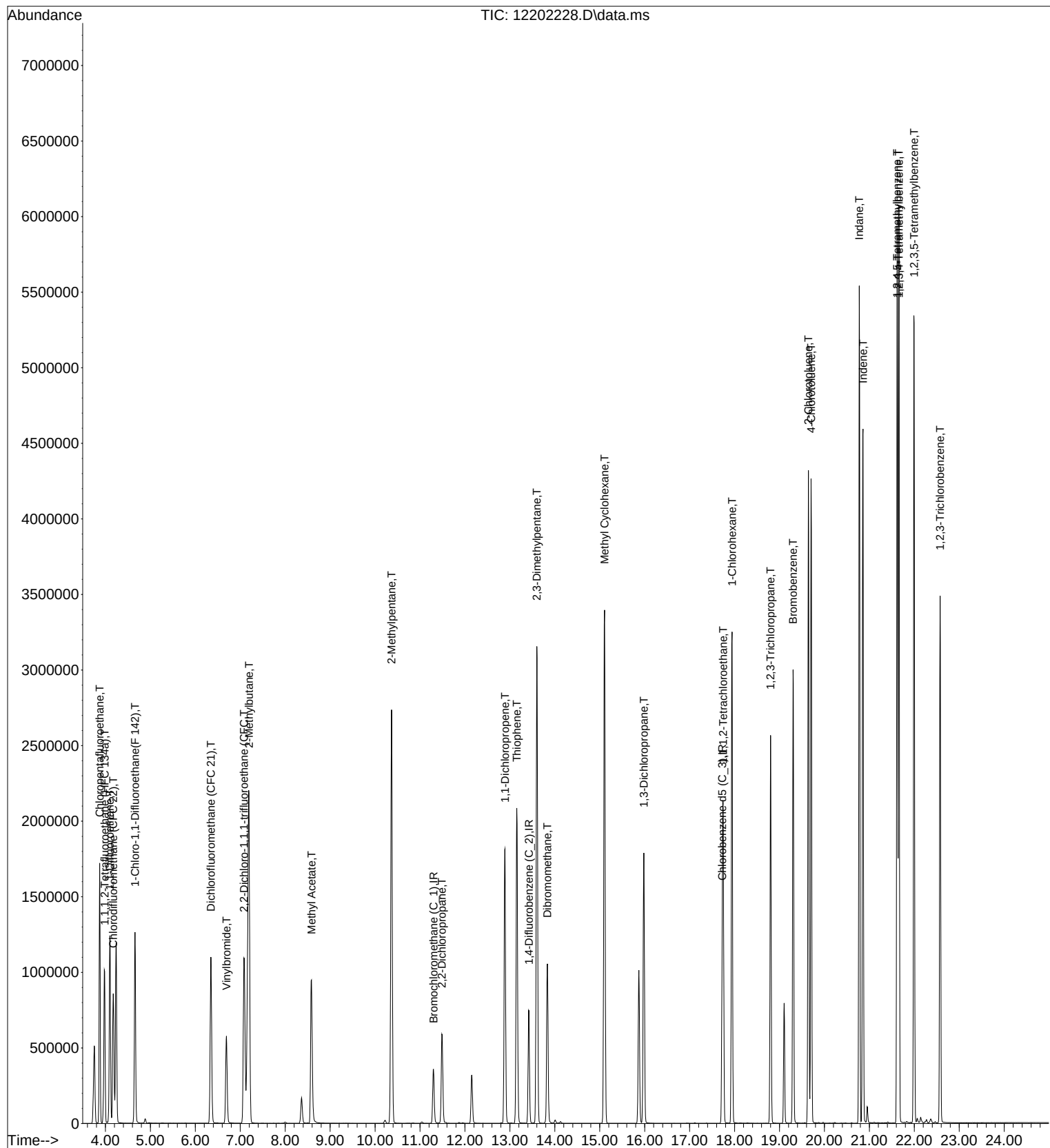
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.87	85	734100	47.261	ng	99
3) 1,1,1,2-Tetrafluoroeth...	3.98	83	568552	45.379	ng	99
4) 1,1-Difluoroethane	4.10	65	571669	51.406	ng	98
5) Chlorodifluoromethane ...	4.17	67	187641	48.326	ng	100
6) 1-Chloro-1,1-Difluoroe...	4.66	65	1252418	42.435	ng	99
7) Dichlorofluoromethane ...	6.35	67	1309280	48.540	ng	100
8) Vinylbromide	6.69	108	522387	48.588	ng	100
9) 2,2-Dichloro-1,1,1-tri...	7.08	83	879214	50.724	ng	100
10) 2-Methylbutane	7.19	57	823858	51.317	ng	98
11) Methyl Acetate	8.58	43	1744656	47.630	ng	100
12) 2-Methylpentane	10.37	71	713550	53.763	ng	98
13) 2,2-Dichloropropane	11.49	77	425278	28.215	ng	100
14) 1,1-Dichloropropene	12.89	75	993853	55.284	ng	98
15) Thiophene	13.15	84	1470271	53.512	ng	99
17) 2,3-Dimethylpentane	13.60	56	1544468	48.865	ng	99
18) Dibromomethane	13.84	174	508417	46.417	ng	99
20) Methyl Cyclohexane	15.11	55	1255158	58.142	ng	98
21) 1,3-Dichloropropane	15.98	76	1163483	59.838	ng	99
22) 1,1,1,2-Tetrachloroethane	17.75	131	562140	44.003	ng	99
23) 1-Chlorohexane	17.94	91	1094858	60.329	ng	98
24) 1,2,3-Trichloropropane	18.80	75	1096930	62.233	ng	100
25) Bromobenzene	19.30	77	1329290	63.137	ng	99
26) 2-Chlorotoluene	19.64	91	2475149	63.331	ng	100
27) 4-Chlorotoluene	19.70	91	2474157	62.009	ng	99
28) Indane	20.78	117	2894311	58.850	ng	100
29) Indene	20.86	115	2431409	63.640	ng	100
30) 1,2,4,5-Tetramethylben...	21.62	119	3272085	73.766	ng	100
31) 1,2,3,4-Tetramethylben...	21.66	119	3088788	68.975	ng	100
32) 1,2,3,5-Tetramethylben...	22.00	119	2990100	73.875	ng	100
33) 1,2,3-Trichlorobenzene	22.57	180	1139357	78.716	ng	100

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

Data File : I:\MS16\DATA\2022_12\20\12202228.D
Acq On : 21 Dec 2022 4:02
Sample : 50ng C16122022 ICAL Std
Misc : S35-11092201/S35-12192206 (1/18)

Vial: 12
Operator: WA
Inst : GCMS-16

Quant Time: Dec 21 04:47:22 2022
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 04:46:40 2022
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS16\DATA\2022_12\20\12202229.D
 Acq On : 21 Dec 2022 4:36
 Sample : 100ng C16122022 ICAL Std
 Misc : S35-11092201/S35-12192206 (1/18)

Vial: 12
 Operator: WA
 Inst : GCMS-16

Quant Time: Dec 21 05:02:32 2022

Quant Method : I:\MS16\METHODS\C16122022.M

Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD

QLast Update : Wed Dec 21 04:50:55 2022

Response via : Initial Calibration

DataAcq Meth: T015.M

12/21/22

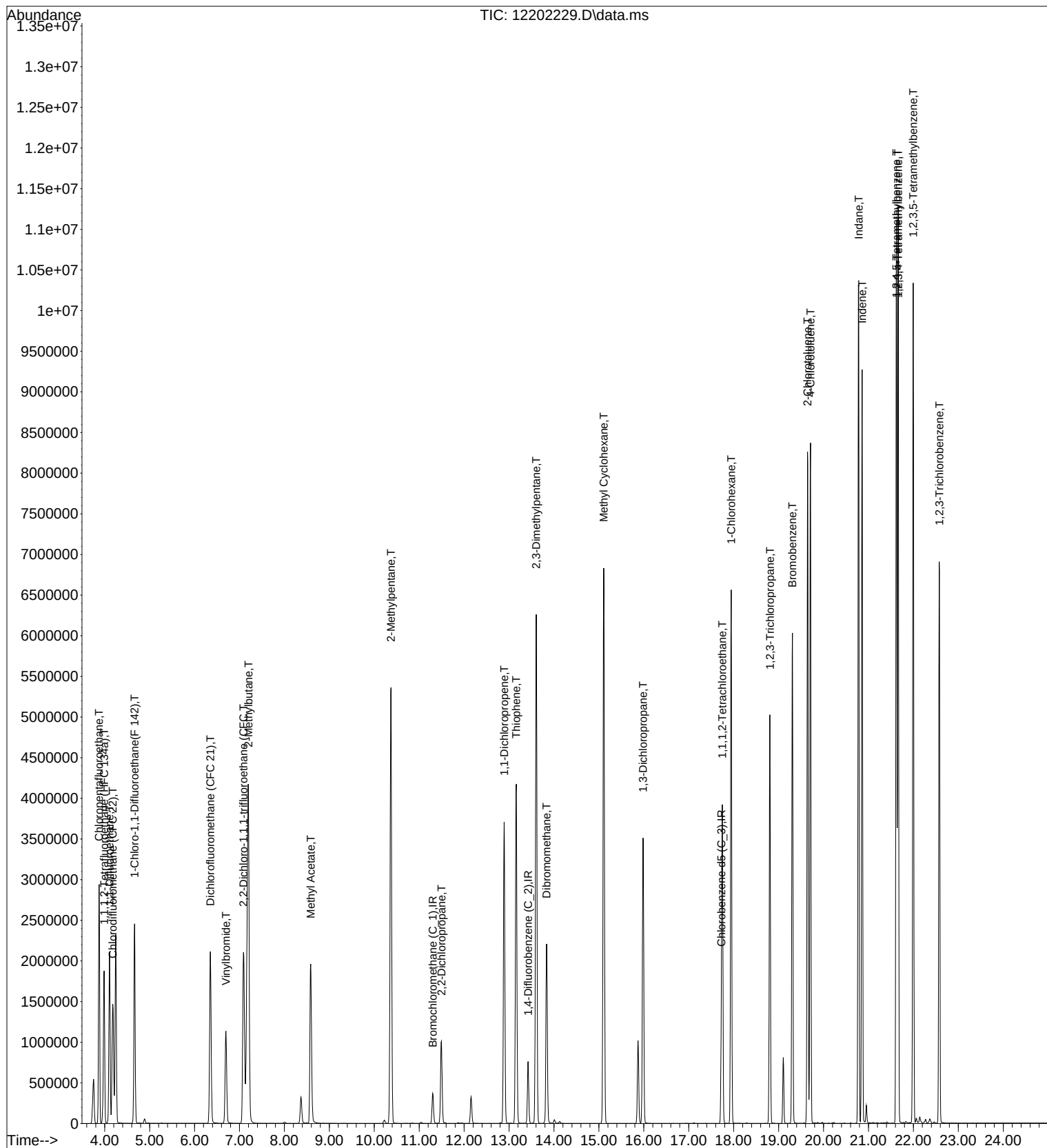
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.30	130	152560	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	13.42	114	711710	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	17.72	54	145276	12.500	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.87	85	1441211	94.239	ng	99
3) 1,1,1,2-Tetrafluoroeth...	3.99	83	1062170	85.876	ng	98
4) 1,1-Difluoroethane	4.11	65	958634	80.005	ng	99
5) Chlorodifluoromethane ...	4.18	67	357073	92.977	ng	99
6) 1-Chloro-1,1-Difluoroe...	4.66	65	2454182	92.932	ng	99
7) Dichlorofluoromethane ...	6.35	67	2580411	91.737	ng	100
8) Vinylbromide	6.70	108	1050265	96.144	ng	100
9) 2,2-Dichloro-1,1,1-tri...	7.09	83	1770238	97.587	ng	100
10) 2-Methylbutane	7.20	57	1634291	94.651	ng	98
11) Methyl Acetate	8.58	43	3497164	91.823	ng	99
12) 2-Methylpentane	10.37	71	1466868	97.452	ng	94
13) 2,2-Dichloropropane	11.49	77	724819	93.031	ng	100
14) 1,1-Dichloropropene	12.89	75	2018421	101.283	ng	96
15) Thiophene	13.16	84	2992366	100.146	ng	98
17) 2,3-Dimethylpentane	13.61	56	3113916	100.299	ng	97
18) Dibromomethane	13.84	174	1042892	110.110	ng	98
20) Methyl Cyclohexane	15.11	55	2525613	102.576	ng	97
21) 1,3-Dichloropropane	15.98	76	2350421	102.918	ng	97
22) 1,1,1,2-Tetrachloroethane	17.75	131	1148137	87.650	ng	99
23) 1-Chlorohexane	17.94	91	2234108	106.102	ng	97
24) 1,2,3-Trichloropropane	18.81	75	2244898	104.141	ng	99
25) Bromobenzene	19.31	77	2710547	105.501	ng	97
26) 2-Chlorotoluene	19.64	91	5036903	108.224	ng	100
27) 4-Chlorotoluene	19.71	91	5040484	104.293	ng	99
28) Indane	20.78	117	5779012	102.295	ng	99
29) Indene	20.86	115	4964208	108.752	ng	100
30) 1,2,4,5-Tetramethylben...	21.62	119	6298901	106.607	ng	100
31) 1,2,3,4-Tetramethylben...	21.66	119	6191044	110.377	ng	99
32) 1,2,3,5-Tetramethylben...	22.00	119	5960451	109.170	ng	99
33) 1,2,3-Trichlorobenzene	22.58	180	2375112	118.616	ng	99

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

Vial: 12
Operator: WA
Inst : GCMS-16

Quant Time: Dec 21 05:02:32 2022
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 04:50:55 2022
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS16\DATA\2022_12\20\12202230.D
 Acq On : 21 Dec 2022 5:09
 Sample : 25ng C16122022 ICV Std
 Misc : S35-11092201/S35-12192208 (1/18)

Vial: 10
 Operator: WA
 Inst : GCMS-16

12/21/22

Quant Time: Dec 21 06:31:51 2022
 Quant Method : I:\MS16\METHODS\C16122022.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Dec 21 05:02:49 2022
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.30	130	149291	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	13.42	114	701186	12.500	ng	0.00
19) Chlorobenzene-d5 (C_3)	17.72	54	143037	12.500	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.87	85	400148	27.102	ng	99
3) 1,1,1,2-Tetrafluoroeth...	3.98	83	311585	26.338	ng	98
4) 1,1-Difluoroethane	4.10	65	324425	28.673	ng	100
5) Chlorodifluoromethane ...	4.17	67	100414	27.196	ng	98
6) 1-Chloro-1,1-Difluoroe...	4.65	65	681825	26.791	ng	100
7) Dichlorofluoromethane ...	6.35	67	694020	25.548	ng	100
8) Vinylbromide	6.69	108	268303	25.203	ng	99
9) 2,2-Dichloro-1,1,1-tri...	7.08	83	450082	25.613	ng	100
10) 2-Methylbutane	7.19	57	439291	26.269	ng	99
11) Methyl Acetate	8.58	43	821320	22.207	ng	100
12) 2-Methylpentane	10.37	71	358661	24.439	ng	99
13) 2,2-Dichloropropane	11.49	77	182251	24.112	ng	100
14) 1,1-Dichloropropene	12.88	75	504691	25.977	ng	100
15) Thiophene	13.15	84	748943	25.645	ng	100
17) 2,3-Dimethylpentane	13.60	56	794975	26.123	ng	100
18) Dibromomethane	13.84	174	241997	25.862	ng	100
20) Methyl Cyclohexane	15.10	55	636750	26.422	ng	99
21) 1,3-Dichloropropane	15.98	76	592987	26.446	ng	100
22) 1,1,1,2-Tetrachloroethane	17.75	131	245139	19.018	ng	100
23) 1-Chlorohexane	17.94	91	553976	26.607	ng	99
24) 1,2,3-Trichloropropane	18.80	75	550859	25.985	ng	100
25) Bromobenzene	19.30	77	665603	26.294	ng	100
26) 2-Chlorotoluene	19.64	91	1285361	27.966	ng	99
27) 4-Chlorotoluene	19.70	91	1257402	26.302	ng	99
28) Indane	20.78	117	1442796	25.777	ng	100
29) Indene	20.85	115	1175161	25.530	ng	99
30) 1,2,4,5-Tetramethylben...	21.62	119	1713257	29.175	ng	100
31) 1,2,3,4-Tetramethylben...	21.66	119	1556857	27.822	ng	100
32) 1,2,3,5-Tetramethylben...	21.99	119	1559828	28.597	ng	100
33) 1,2,3-Trichlorobenzene	22.57	180	551593	27.254	ng	100

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

Vial: 10
Operator: WA
Inst : GCMS-16

Quant Time: Dec 21 06:31:51 2022

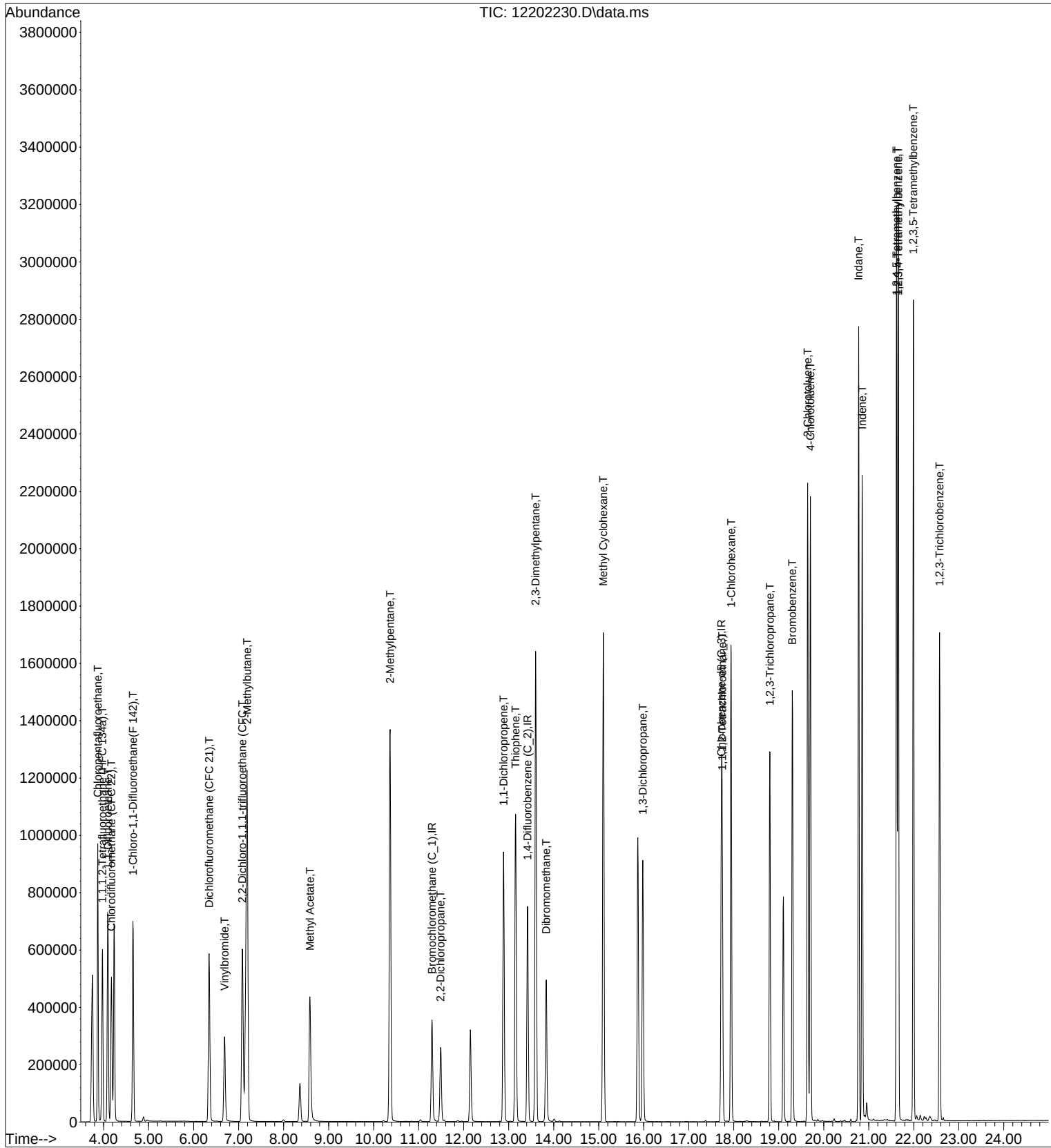
Quant Method : I:\MS16\METHODS\C16122022.M

Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD

QLast Update : Wed Dec 21 05:02:49 2022

Response via : Initial Calibration

DataAcq Meth:T015.M



LABORATORY CONTROL SAMPLE CHECK SHEET

12/21/22

Data File Name: **12202230.D**

Acq. Method File: **TO15.M**

Data File Path: **I:\MS16\DATA\2022_12\20**

Sample Name: **25ng C16122022 ICV :**

Operator: **WA**

Misc Info: **S35-11092201/S35-12**

Date Acquired: **12/21/2022 5:09**

Instrument Name: **GCMS-16**

#	Compound Name	Ret. Time	Amt. (ng)	Spike Amt.(ng)	% Rec.	Lower Limit	Upper Limit	AZ Check 70-130%
2)	Chloropentafluoroethane	3.87	27.1	27.00	100	70	130	*
3)	1,1,1,2-Tetrafluoroethane (HFC 134a)	3.98	26.3	27.00	97	70	130	*
4)	1,1-Difluoroethane	4.10	28.7	26.00	110	70	130	*
5)	Chlorodifluoromethane (CFC 22)	4.17	27.2	27.00	101	70	130	*
6)	1-Chloro-1,1-Difluoroethane(F 143b)	4.65	26.8	26.25	102	70	130	*
7)	Dichlorofluoromethane (CFC 21)	6.35	25.5	25.75	99	70	130	*
8)	Vinylbromide	6.69	25.2	24.75	102	70	130	*
9)	2,2-Dichloro-1,1,1-trifluoroethane	7.08	25.6	27.25	94	70	130	*
10)	2-Methylbutane	7.19	26.3	27.50	96	70	130	*
11)	Methyl Acetate	8.58	22.2	21.75	102	70	130	*
12)	2-Methylpentane	10.37	24.4	24.75	99	70	130	*
13)	2,2-Dichloropropane	11.49	24.1	21.50	112	70	130	*
14)	1,1-Dichloropropene	12.88	26.0	25.75	101	70	130	*
15)	Thiophene	13.15	25.6	25.25	101	70	130	*
17)	2,3-Dimethylpentane	13.60	26.1	26.25	99	70	130	*
18)	Dibromomethane	13.84	25.9	26.25	99	70	130	*
20)	Methyl Cyclohexane	15.10	26.4	26.75	99	70	130	*
21)	1,3-Dichloropropane	15.98	26.4	26.75	99	70	130	*
22)	1,1,1,2-Tetrachloroethane	17.75	19.0	21.75	87	70	130	*
23)	1-Chlorohexane	17.94	26.6	25.75	103	70	130	*
24)	1,2,3-Trichloropropane	18.80	26.0	26.25	99	70	130	*
25)	Bromobenzene	19.30	26.3	27.00	97	70	130	*
26)	2-Chlorotoluene	19.64	28.0	27.50	102	70	130	*
27)	4-Chlorotoluene	19.70	26.3	26.75	98	70	130	*
28)	Indane	20.78	25.8	25.25	102	70	130	*
29)	Indene	20.85	25.5	23.25	110	70	130	*
30)	1,2,4,5-Tetramethylbenzene	21.62	29.2	24.75	118	70	130	*
31)	1,2,3,4-Tetramethylbenzene	21.66	27.8	24.75	112	70	130	*
32)	1,2,3,5-Tetramethylbenzene	21.99	28.6	24.75	116	70	130	*
33)	1,2,3-Trichlorobenzene	22.57	27.3	22.50	121	70	130	*

* = Pass

Data File : I:\MS13\DATA\2023_03\23\03232301.D
 Acq On : 23 Mar 2023 1:02
 Sample : CCV R13032323 25ng
 Misc : S35-01202301/S35-03012301 (3/31)

Vial: 1
 Operator: TZ
 Inst : MS13

TZ 3/23/23

Quant Time: Mar 23 07:31:18 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 IR	Bromochloromethane (IS1)	1.000	1.000	0.0	121	0.00
2 T	Propene	1.250	1.068	14.6	112	0.00
3 T	Dichlorodifluoromethane (CF	2.290	2.090	8.7	111	-0.03
4 T	Chloromethane	1.651	1.492	9.6	108	0.00
5 T	1,2-Dichloro-1,1,2,2-tetra	1.156	1.068	7.6	109	0.00
6 T	Vinyl Chloride	1.529	1.381	9.7	110	0.00
7 T	1,3-Butadiene	1.158	1.023	11.7	109	0.00
8 T	Bromomethane	1.025	0.824	19.6	97	0.00
9 T	Chloroethane	0.723	0.661	8.6	111	0.00
10 T	Ethanol	0.888	0.791	10.9	114	0.00
11 T	Acetonitrile	2.307	2.034	11.8	114	0.00
12 T	Acrolein	0.734	0.681	7.2	112	0.00
13 T	Acetone	0.758	0.667	12.0	114	0.00
14 T	Trichlorofluoromethane	2.061	1.902	7.7	112	0.00
15 T	2-Propanol (Isopropanol)	3.059	2.719	11.1	114	0.00
16 T	Acrylonitrile	1.445	1.330	8.0	114	0.00
17 T	1,1-Dichloroethene	1.058	0.962	9.1	110	0.00
18 T	2-Methyl-2-Propanol (tert-B	2.991	2.755	7.9	112	0.00
19 T	Methylene Chloride	1.111	0.996	10.4	112	0.00
20 T	3-Chloro-1-propene (Allyl C	1.774	1.593	10.2	112	0.00
21 T	Trichlorotrifluoroethane	1.084	0.977	9.9	110	0.00
22 T	Carbon Disulfide	4.398	3.699	15.9	111	0.00
23 T	trans-1,2-Dichloroethene	1.621	1.518	6.4	112	0.00
24 T	1,1-Dichloroethane	1.977	1.774	10.3	111	0.00
25 T	Methyl tert-Butyl Ether	3.465	3.144	9.3	111	0.00
26 T	Vinyl Acetate	0.205	0.194	5.4	112	0.00
27 T	2-Butanone (MEK)	0.673	0.634	5.8	112	0.00
28 T	cis-1,2-Dichloroethene	1.597	1.454	9.0	112	0.00
29 T	Diisopropyl Ether	0.835	0.738	11.6	113	0.00
30 T	Ethyl Acetate	0.442	0.410	7.2	116	0.00
31 T	n-Hexane	1.702	1.498	12.0	116	0.00
32 T	Chloroform	2.014	1.838	8.7	112	0.00
33 S	1,2-Dichloroethane-d4(SS1)	1.659	1.674	-0.9	123	0.00
34 T	Tetrahydrofuran (THF)	0.691	0.612	11.4	112	0.00
35 T	Ethyl tert-Butyl Ether	1.276	1.172	8.2	111	0.00
36 T	1,2-Dichloroethane	1.525	1.441	5.5	112	0.00
37 IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	122	0.00
38 T	1,1,1-Trichloroethane	0.414	0.382	7.7	113	0.00
39 T	Isopropyl Acetate	0.000	0.000	0.0	122	0.00
40 T	1-Butanol	0.000	0.000	0.0	107	0.00
41 T	Benzene	0.972	0.875	10.0	111	0.00
42 T	Carbon Tetrachloride	0.365	0.341	6.6	112	0.00
43 T	Cyclohexane	0.356	0.319	10.4	111	0.00
44 T	tert-Amyl Methyl Ether	0.705	0.640	9.2	109	0.00
45 T	1,2-Dichloropropane	0.245	0.221	9.8	112	0.00
46 T	Bromodichloromethane	0.360	0.330	8.3	111	0.00
47 T	Trichloroethene	0.285	0.258	9.5	110	0.00
48 T	1,4-Dioxane	0.196	0.179	8.7	110	0.00
49 T	2,2,4-Trimethylpentane (Iso	0.989	0.839	15.2	108	0.00
50 T	Methyl Methacrylate	0.100	0.094	6.0	110	0.00
51 T	n-Heptane	0.235	0.213	9.4	112	0.00
52 T	cis-1,3-Dichloropropene	0.399	0.372	6.8	111	0.00
53 T	4-Methyl-2-pentanone	0.210	0.196	6.7	112	0.00
54 T	trans-1,3-Dichloropropene	0.386	0.372	3.6	113	0.00
55 T	1,1,2-Trichloroethane	0.252	0.226	10.3	111	0.00

Data File : I:\MS13\DATA\2023_03\23\03232301.D
 Acq On : 23 Mar 2023 1:02
 Sample : CCV R13032323 25ng
 Misc : S35-01202301/S35-03012301 (3/31)

Vial: 1
 Operator: TZ
 Inst : MS13

Quant Time: Mar 23 07:31:18 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
56	IR Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	124	0.00
57	S Toluene-d8 (SS2)	6.428	6.286	2.2	121	0.00
58	T Toluene	6.120	5.277	13.8	111	0.00
59	T 2-Hexanone	2.973	2.751	7.5	114	0.00
60	T Dibromochloromethane	1.796	1.669	7.1	111	0.00
61	T 1,2-Dibromoethane	1.704	1.565	8.2	112	0.00
62	T n-Butyl Acetate	3.379	3.132	7.3	114	0.00
63	T n-Octane	1.203	1.054	12.4	113	0.00
64	T Tetrachloroethene	1.862	1.648	11.5	110	0.00
65	T Chlorobenzene	4.037	3.556	11.9	111	0.00
66	T Ethylbenzene	7.301	6.107	16.4	111	0.00
67	T m- & p-Xylenes	5.876	4.950	15.8	111	0.00
68	T Bromoform	1.623	1.545	4.8	111	0.00
69	T Styrene	4.040	3.767	6.8	111	0.00
70	T o-Xylene	5.619	4.881	13.1	111	0.00
71	T n-Nonane	2.719	2.487	8.5	115	0.00
72	T 1,1,2,2-Tetrachloroethane	2.427	2.237	7.8	112	0.00
73	S Bromofluorobenzene (SS3)	2.354	2.315	1.7	120	0.00
74	T Cumene	6.833	5.992	12.3	110	0.00
75	T alpha-Pinene	3.153	2.808	10.9	109	0.00
76	T n-Propylbenzene	8.192	7.319	10.7	112	0.00
77	T 3-Ethyltoluene	0.000	0.000	0.0	67	0.00
78	T 4-Ethyltoluene	6.555	5.881	10.3	110	0.00
79	T 1,3,5-Trimethylbenzene	5.797	5.046	13.0	109	0.00
80	T alpha-Methylstyrene	0.000	0.000	0.0	0#	-17.19#
81	T 2-Ethyltoluene	0.000	0.000	0.0	67	0.00
82	T 1,2,4-Trimethylbenzene	5.716	5.130	10.3	110	0.00
83	T n-Decane	0.000	0.000	0.0	110	0.00
84	T Benzyl Chloride	4.625	4.609	0.3	115	0.00
85	T 1,3-Dichlorobenzene	3.457	3.061	11.5	111	0.00
86	T 1,4-Dichlorobenzene	3.581	3.150	12.0	112	0.00
87	T sec-Butylbenzene	7.540	6.292	16.6	104	0.00
88	T 4-Isopropyltoluene (p-Cymen	6.627	5.728	13.6	107	0.00
89	T 1,2,3-Trimethylbenzene	0.000	0.000	0.0	67	0.00
90	T 1,2-Dichlorobenzene	3.422	2.985	12.8	109	0.00
91	T d-Limonene	1.933	1.738	10.1	105	0.00
92	T 1,2-Dibromo-3-Chloropropane	1.296	1.130	12.8	103	0.00
93	T n-Undecane	0.000	0.000	0.0	144	-0.03
94	T 1,2,4-Trichlorobenzene	2.574	2.202	14.5	100	0.00
95	T Naphthalene	6.196	5.202	16.0	96	0.00
96	T n-Dodecane	0.000	0.000	0.0	90	0.00
97	T Hexachlorobutadiene	1.995	1.335	33.1#	89	0.00
98	T Cyclohexanone	0.000	0.000	0.0	110	-0.02
99	T tert-Butylbenzene	5.366	4.267	20.5	101	0.00
100	T n-Butylbenzene	5.862	5.250	10.4	110	0.00
101	T 1,1,1,2-Tetrachloroethane	1.522	1.335	12.3	108	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data File : I:\MS13\DATA\2023_03\23\03232301.D
 Acq On : 23 Mar 2023 1:02
 Sample : CCV R13032323 25ng
 Misc : S35-01202301/S35-03012301 (3/31)

Vial: 1
 Operator: TZ
 Inst : MS13

TZ 3/23/23

Quant Time: Mar 23 07:31:18 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.35	130	238161	12.500	ng	0.00
37) 1,4-Difluorobenzene (IS2)	9.39	114	1057908	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	14.88	54	188684	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.11	65	398614	12.612	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	100.88%
57) Toluene-d8 (SS2)	12.49	98	1186091	12.223	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	97.76%
73) Bromofluorobenzene (SS3)	16.86	174	436831	12.291	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	98.32%

Target Compounds

						Qvalue
2) Propene	3.38	42	534293	22.431	ng	99
3) Dichlorodifluoromethan...	3.45	85	1055345	24.193	ng	100
4) Chloromethane	3.59	50	732204	23.276	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	3.70	135	529056	24.022	ng	100
6) Vinyl Chloride	3.78	62	664235	22.801	ng	100
7) 1,3-Butadiene	3.90	54	516416	23.400	ng	100
8) Bromomethane	4.12	94	400343	20.508	ng	98
9) Chloroethane	4.26	64	324101	23.522	ng	99
10) Ethanol	4.43	45	1300474	76.886	ng	100
11) Acetonitrile	4.57	41	881841	20.066	ng	99
12) Acrolein	4.65	56	626109	44.760	ng	100
13) Acetone	4.75	58	1675528	116.067	ng	99
14) Trichlorofluoromethane	4.86	101	942231	23.993	ng	100
15) 2-Propanol (Isopropanol)	4.98	45	2655225	45.561	ng	99
16) Acrylonitrile	5.12	53	1298504	47.153	ng	99
17) 1,1-Dichloroethene	5.36	96	494823	24.537	ng	98
18) 2-Methyl-2-Propanol (t...	5.45	59	2769355	48.593	ng	100
19) Methylene Chloride	5.48	84	502817	23.760	ng	98
20) 3-Chloro-1-propene (Al...	5.56	41	804401	23.805	ng	99
21) Trichlorotrifluoroethane	5.68	151	502422	24.331	ng	99
22) Carbon Disulfide	5.71	76	3753271	44.789	ng	100
23) trans-1,2-Dichloroethene	6.25	61	780798	25.279	ng	99
24) 1,1-Dichloroethane	6.44	63	904315	24.011	ng	100
25) Methyl tert-Butyl Ether	6.47	73	1602582	24.277	ng	100
26) Vinyl Acetate	6.56	86	258893	66.322	ng	# 96
27) 2-Butanone (MEK)	6.77	72	631091	49.246	ng	97
28) cis-1,2-Dichloroethene	7.19	61	734070	24.130	ng	99
29) Diisopropyl Ether	7.38	87	745145	46.814	ng	# 93
30) Ethyl Acetate	7.39	61	824470	97.839	ng	98
31) n-Hexane	7.39	57	749296	23.102	ng	99
32) Chloroform	7.48	83	928048	24.187	ng	100
34) Tetrahydrofuran (THF)	7.85	72	594302	45.155	ng	99
35) Ethyl tert-Butyl Ether	7.92	87	1183095	48.662	ng	99
36) 1,2-Dichloroethane	8.22	62	741308	25.507	ng	99
38) 1,1,1-Trichloroethane	8.49	97	848858	24.242	ng	99
39) Isopropyl Acetate	9.39	61	29269	No Calib		
40) 1-Butanol	8.89	56	25234	No Calib		
41) Benzene	8.99	78	1981289	24.074	ng	99
42) Carbon Tetrachloride	9.16	117	751143	24.317	ng	99
43) Cyclohexane	9.30	84	1419540	47.051	ng	98
44) tert-Amyl Methyl Ether	9.68	73	2870184	48.089	ng	100
45) 1,2-Dichloropropane	9.94	63	490108	23.604	ng	100
46) Bromodichloromethane	10.16	83	748185	24.586	ng	99
47) Trichloroethene	10.23	130	573256	23.777	ng	100
48) 1,4-Dioxane	10.20	88	400620	24.148	ng	99
49) 2,2,4-Trimethylpentane...	10.31	57	1916144	22.896	ng	100
50) Methyl Methacrylate	10.48	100	420229	49.655	ng	97

Data File : I:\MS13\DATA\2023_03\23\03232301.D
 Acq On : 23 Mar 2023 1:02
 Sample : CCV R13032323 25ng
 Misc : S35-01202301/S35-03012301 (3/31)

Vial: 1
 Operator: TZ
 Inst : MS13

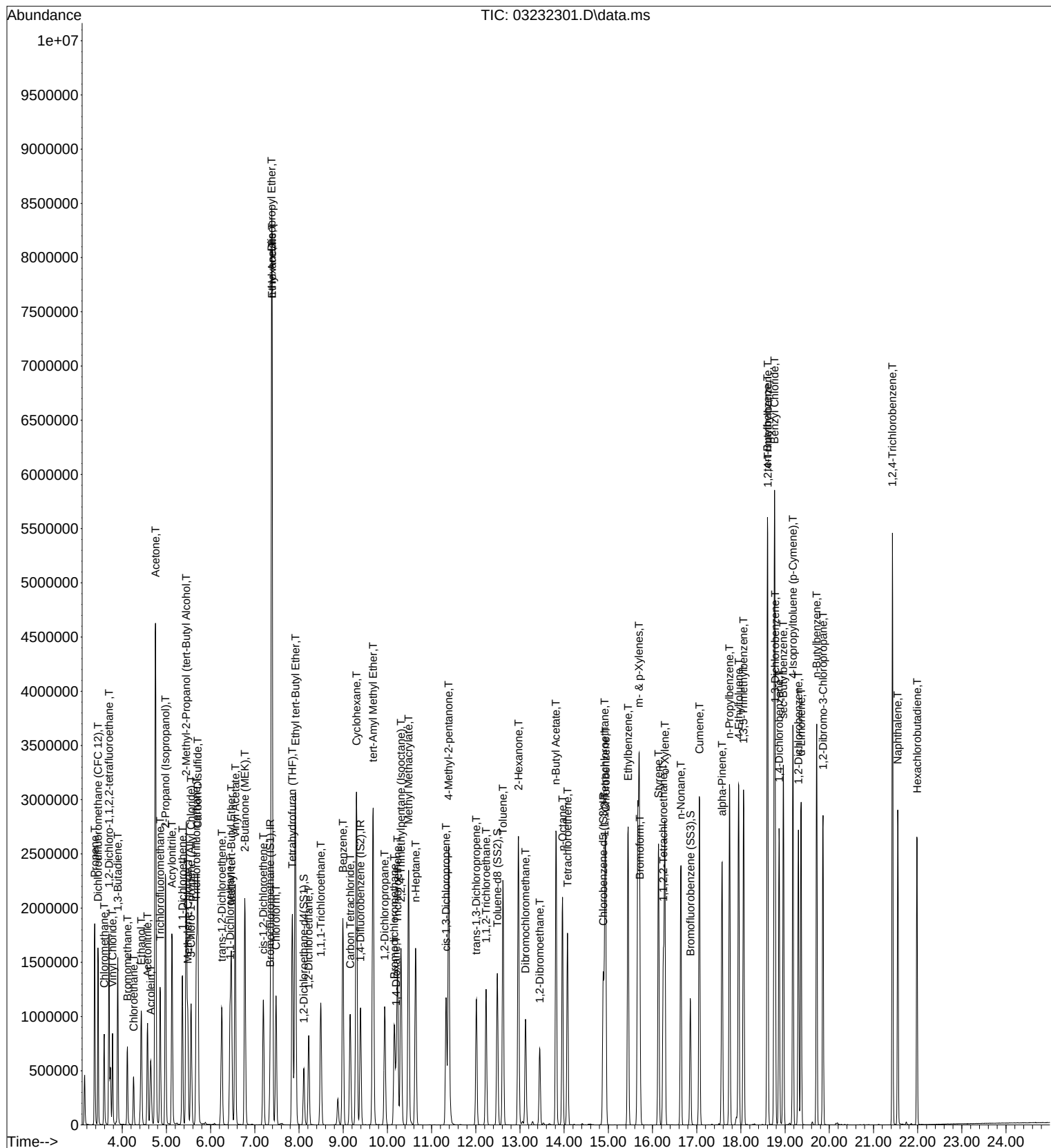
Quant Time: Mar 23 07:31:18 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.64	71	478042	24.004	ng	100
52) cis-1,3-Dichloropropene	11.33	75	851089	25.224	ng	100
53) 4-Methyl-2-pentanone	11.38	58	889725	50.146	ng	98
54) trans-1,3-Dichloropropene	12.01	75	803533	24.586	ng	100
55) 1,1,2-Trichloroethane	12.23	97	507941	23.846	ng	99
58) Toluene	12.61	91	2090850	22.634	ng	100
59) 2-Hexanone	12.97	43	2200971	49.051	ng	100
60) Dibromochloromethane	13.13	129	680291	25.093	ng	100
61) 1,2-Dibromoethane	13.45	107	614276	23.886	ng	100
62) n-Butyl Acetate	13.81	43	2422634	47.496	ng	99
63) n-Octane	13.96	57	425392	23.418	ng	99
64) Tetrachloroethene	14.08	166	659300	23.461	ng	100
65) Chlorobenzene	14.94	112	1422579	23.347	ng	100
66) Ethylbenzene	15.45	91	2419778	21.958	ng	100
67) m- & p-Xylenes	15.69	91	3922921	44.229	ng	100
68) Bromoform	15.72	173	623798	25.469	ng	100
69) Styrene	16.14	104	1506648	24.705	ng	100
70) o-Xylene	16.28	91	1952345	23.020	ng	100
71) n-Nonane	16.64	43	994675	24.237	ng	99
72) 1,1,2,2-Tetrachloroethane	16.24	83	895014	24.429	ng	99
74) Cumene	17.06	105	2419300	23.454	ng	100
75) alpha-Pinene	17.58	93	1154912	24.267	ng	99
76) n-Propylbenzene	17.74	91	2955294	23.899	ng	100
77) 3-Ethyltoluene	17.35	105	455	No Calib	#	
78) 4-Ethyltoluene	17.95	105	2418856	24.446	ng	99
79) 1,3,5-Trimethylbenzene	18.06	105	2018425	23.068	ng	99
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.35	105	455	No Calib	#	
82) 1,2,4-Trimethylbenzene	18.61	105	2032837	23.561	ng	99
83) n-Decane	17.06	58	18524	No Calib		
84) Benzyl Chloride	18.76	91	3687336	52.819	ng	99
85) 1,3-Dichlorobenzene	18.78	146	1224472	23.462	ng	100
86) 1,4-Dichlorobenzene	18.86	146	1260087	23.313	ng	99
87) sec-Butylbenzene	18.96	105	2517045	22.116	ng	100
88) 4-Isopropyltoluene (p-...	19.18	119	2291447	22.907	ng	100
89) 1,2,3-Trimethylbenzene	17.35	105	455	No Calib	#	
90) 1,2-Dichlorobenzene	19.30	146	1205131	23.332	ng	100
91) d-Limonene	19.36	68	701951	24.059	ng	100
92) 1,2-Dibromo-3-Chloropr...	19.86	157	895584	45.791	ng	98
93) n-Undecane	18.24	58	182	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	1736570	44.702	ng	100
95) Naphthalene	21.55	128	2159451	23.089	ng	99
96) n-Dodecane	19.18	58	60643	No Calib		
97) Hexachlorobutadiene	21.99	225	534025	17.729	ng	100
98) Cyclohexanone	15.68	55	2646	No Calib	#	
99) tert-Butylbenzene	18.60	119	1706786	21.071	ng	99
100) n-Butylbenzene	19.72	91	2119689	23.956	ng	100
101) 1,1,1,2-Tetrachloroethane	14.92	131	534095	23.254	ng	99

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

Vial: 1
Operator: TZ
Inst : MS13

Quant Time: Mar 23 07:31:18 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:TO15.M



Data File : I:\MS13\DATA\2023_03\23\03232302.D
 Acq On : 23 Mar 2023 1:38
 Sample : CCV C13032323 5.0ng
 Misc : S35-01202301/S35-02282306 (3/30)

Vial: 16
 Operator: TZ
 Inst : MS13

TZ 3/23/23

Quant Time: Mar 23 09:01:19 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 IR	Bromochloromethane (C_1)	1.000	1.000	0.0	116	0.00
2 T	Chloropentafluoroethane	1.314	1.369	-4.2	121	0.02
3 T	1,1,1,2-Tetrafluoroethane (	1.009	1.044	-3.5	123	0.01
4 T	1,1-Difluoroethane	0.857	0.964	-12.5	131	0.00
5 T	Chlorodifluoromethane (CFC	0.305	0.323	-5.9	124	0.01
6 T	1-Chloro-1,1-Difluoroethane	2.025	2.146	-6.0	124	0.01
7 T	Dichlorofluoromethane (CFC	2.112	2.266	-7.3	126	0.02
8 T	Vinylbromide	0.971	0.990	-2.0	118	0.00
9 T	2,2-Dichloro-1,1,1-trifluor	1.467	1.524	-3.9	122	0.01
10 T	2-Methylbutane	0.914	1.005	-10.0	127	0.00
11 T	Methyl Acetate	2.060	2.428	-17.9	139	0.00
12 T	2-Methylpentane	0.873	0.928	-6.3	125	0.00
13 T	2,2-Dichloropropane	1.708	1.765	-3.3	121	0.00
14 T	1,1-Dichloropropene	1.409	1.486	-5.5	124	-0.01
15 T	Thiophene	2.179	2.230	-2.3	119	0.00
16 IR	1,4-Difluorobenzene (C_2)	1.000	1.000	0.0	120	-0.01
17 T	2,3-Dimethylpentane	0.368	0.403	-9.5	132	-0.01
18 T	Dibromomethane	0.222	0.201	9.5	109	0.00
19 IR	Chlorobenzene-d5 (C_3)	1.000	1.000	0.0	133	0.00
20 T	Methyl Cyclohexane	2.081	1.988	4.5	128	-0.01
21 T	1,3-Dichloropropane	2.220	2.015	9.2	124	0.00
22 T	1,1,1,2-Tetrachloroethane	1.615	1.360	15.8	112	0.00
23 T	1-Chlorohexane	2.189	1.995	8.9	120	0.00
24 T	1,2,3-Trichloropropane	2.329	2.095	10.0	118	0.00
25 T	Bromobenzene	2.761	2.460	10.9	120	0.00
26 T	2-Chlorotoluene	4.995	4.435	11.2	119	0.00
27 T	4-Chlorotoluene	5.315	4.633	12.8	116	0.00
28 T	Indane	6.294	5.520	12.3	115	0.00
29 T	Indene	5.474	4.660	14.9	111	0.00
30 T	1,2,4,5-Tetramethylbenzene	6.280	5.263	16.2	107	0.00
31 T	1,2,3,4-Tetramethylbenzene	6.446	5.277	18.1	106	0.00
32 T	1,2,3,5-Tetramethylbenzene	6.068	4.891	19.4	102	0.00
33 T	1,2,3-Trichlorobenzene	2.689	1.877	30.2#	86	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data File : I:\MS13\DATA\2023_03\23\03232302.D
 Acq On : 23 Mar 2023 1:38
 Sample : CCV C13032323 5.0ng
 Misc : S35-01202301/S35-02282306 (3/30)

Vial: 16
 Operator: TZ
 Inst : MS13

Tz 3/23/23

Quant Time: Mar 23 09:01:19 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.32	130	231686	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	9.37	114	1004231	12.500	ng	-0.01
19) Chlorobenzene-d5 (C_3)	14.88	54	177560	12.500	ng	0.00

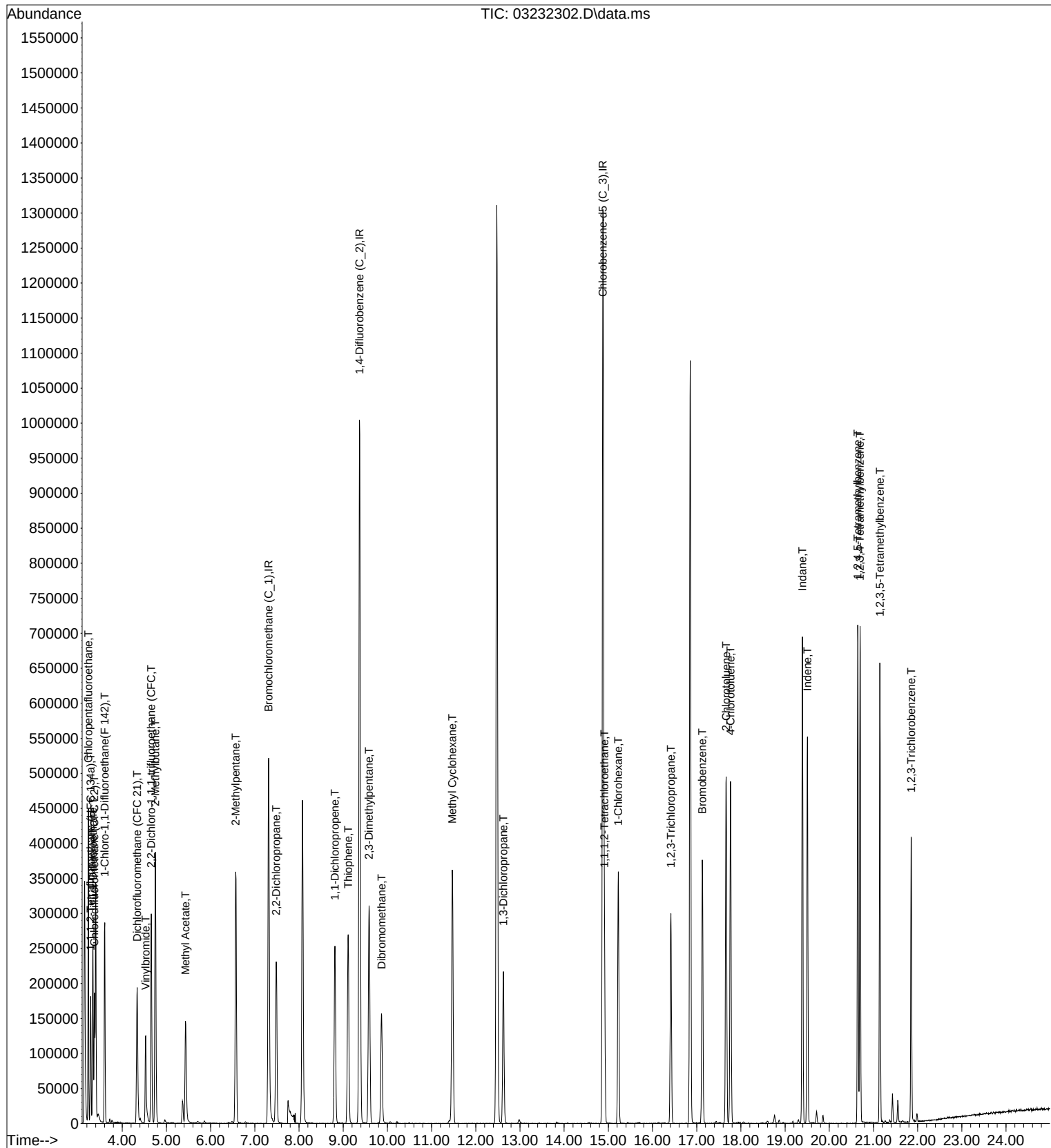
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.23	85	131945	5.419	ng	96
3) 1,1,1,2-Tetrafluoroeth...	3.29	83	98672	5.278	ng	98
4) 1,1-Difluoroethane	3.34	65	94666	5.957	ng	98
5) Chlorodifluoromethane ...	3.37	67	31690	5.607	ng	98
6) 1-Chloro-1,1-Difluoroe...	3.60	65	206856	5.511	ng	99
7) Dichlorofluoromethane ...	4.34	67	212062	5.417	ng	99
8) Vinylbromide	4.53	108	90866	5.050	ng	99
9) 2,2-Dichloro-1,1,1-tri...	4.66	83	148325	5.455	ng	100
10) 2-Methylbutane	4.75	57	95021	5.608	ng	92
11) Methyl Acetate	5.43	43	218265	5.716	ng	96
12) 2-Methylpentane	6.57	71	85968	5.310	ng	84
13) 2,2-Dichloropropane	7.49	77	161920	5.114	ng	99
14) 1,1-Dichloropropene	8.81	75	143177	5.481	ng	95
15) Thiophene	9.11	84	208708	5.167	ng	96
17) 2,3-Dimethylpentane	9.59	56	168457	5.694	ng	98
18) Dibromomethane	9.87	174	87321	4.898	ng	93
20) Methyl Cyclohexane	11.47	55	151114	5.113	ng	93
21) 1,3-Dichloropropane	12.63	76	150244	4.764	ng	95
22) 1,1,1,2-Tetrachloroethane	14.91	131	84973	3.705	ng	99
23) 1-Chlorohexane	15.23	91	145957	4.694	ng	95
24) 1,2,3-Trichloropropane	16.42	75	156213	4.722	ng	97
25) Bromobenzene	17.13	77	183442	4.678	ng	93
26) 2-Chlorotoluene	17.67	91	333885	4.706	ng	98
27) 4-Chlorotoluene	17.76	91	332309	4.401	ng	99
28) Indane	19.39	117	384224	4.298	ng	99
29) Indene	19.51	115	307787	3.958	ng	99
30) 1,2,4,5-Tetramethylben...	20.64	119	373821	4.190	ng	100
31) 1,2,3,4-Tetramethylben...	20.69	119	378508	4.134	ng	100
32) 1,2,3,5-Tetramethylben...	21.14	119	343892	3.990	ng	99
33) 1,2,3-Trichlorobenzene	21.86	180	133346	3.491	ng	98

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

Data File : I:\MS13\DATA\2023_03\23\03232302.D
Acq On : 23 Mar 2023 1:38
Sample : CCV C13032323 5.0ng
Misc : S35-01202301/S35-02282306 (3/30)

Vial: 16
Operator: TZ
Inst : MS13

Quant Time: Mar 23 09:01:19 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242301.D

Vial: 1

Acq On : 24 Mar 2023 2:00

Operator: TZ

Sample : CCV R13032423 25ng

Inst : MS13

Misc : S35-01202301/S35-03012301 (3/31)

Tz 3/24/23

Quant Time: Mar 24 07:43:35 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 IR	Bromochloromethane (IS1)	1.000	1.000	0.0	125	0.00
2 T	Propene	1.250	1.102	11.8	119	0.00
3 T	Dichlorodifluoromethane (CF	2.290	2.077	9.3	114	-0.02
4 T	Chloromethane	1.651	1.563	5.3	117	0.00
5 T	1,2-Dichloro-1,1,2,2-tetra	1.156	1.055	8.7	111	0.00
6 T	Vinyl Chloride	1.529	1.387	9.3	114	0.00
7 T	1,3-Butadiene	1.158	1.045	9.8	115	0.00
8 T	Bromomethane	1.025	0.921	10.1	112	0.00
9 T	Chloroethane	0.723	0.678	6.2	118	0.00
10 T	Ethanol	0.888	0.800	9.9	119	0.00
11 T	Acetonitrile	2.307	2.097	9.1	121	0.00
12 T	Acrolein	0.734	0.689	6.1	117	0.00
13 T	Acetone	0.758	0.678	10.6	120	0.00
14 T	Trichlorofluoromethane	2.061	1.881	8.7	115	0.00
15 T	2-Propanol (Isopropanol)	3.059	2.798	8.5	121	0.00
16 T	Acrylonitrile	1.445	1.357	6.1	120	0.00
17 T	1,1-Dichloroethene	1.058	0.964	8.9	114	0.00
18 T	2-Methyl-2-Propanol (tert-B	2.991	2.808	6.1	118	0.00
19 T	Methylene Chloride	1.111	1.003	9.7	116	0.00
20 T	3-Chloro-1-propene (Allyl C	1.774	1.649	7.0	120	0.00
21 T	Trichlorotrifluoroethane	1.084	0.972	10.3	113	0.00
22 T	Carbon Disulfide	4.398	3.730	15.2	116	0.00
23 T	trans-1,2-Dichloroethene	1.621	1.546	4.6	118	0.00
24 T	1,1-Dichloroethane	1.977	1.803	8.8	117	0.00
25 T	Methyl tert-Butyl Ether	3.465	3.179	8.3	116	0.00
26 T	Vinyl Acetate	0.205	0.196	4.4	117	0.00
27 T	2-Butanone (MEK)	0.673	0.641	4.8	117	0.00
28 T	cis-1,2-Dichloroethene	1.597	1.477	7.5	117	0.00
29 T	Diisopropyl Ether	0.835	0.738	11.6	116	0.00
30 T	Ethyl Acetate	0.442	0.415	6.1	122	0.00
31 T	n-Hexane	1.702	1.515	11.0	121	0.00
32 T	Chloroform	2.014	1.839	8.7	116	0.00
33 S	1,2-Dichloroethane-d4(SS1)	1.659	1.690	-1.9	128	0.00
34 T	Tetrahydrofuran (THF)	0.691	0.612	11.4	116	0.00
35 T	Ethyl tert-Butyl Ether	1.276	1.172	8.2	115	0.00
36 T	1,2-Dichloroethane	1.525	1.448	5.0	117	0.00
37 IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	125	0.00
38 T	1,1,1-Trichloroethane	0.414	0.379	8.5	115	0.00
39 T	Isopropyl Acetate	0.000	0.000	0.0	127	0.00
40 T	1-Butanol	0.000	0.000	0.0	111	0.00
41 T	Benzene	0.972	0.883	9.2	116	0.00
42 T	Carbon Tetrachloride	0.365	0.340	6.8	114	0.00
43 T	Cyclohexane	0.356	0.323	9.3	116	0.00
44 T	tert-Amyl Methyl Ether	0.705	0.651	7.7	114	0.00
45 T	1,2-Dichloropropane	0.245	0.223	9.0	117	0.00
46 T	Bromodichloromethane	0.360	0.332	7.8	115	0.00
47 T	Trichloroethene	0.285	0.256	10.2	113	0.00
48 T	1,4-Dioxane	0.196	0.179	8.7	113	0.00
49 T	2,2,4-Trimethylpentane (Iso	0.989	0.856	13.4	113	0.00
50 T	Methyl Methacrylate	0.100	0.094	6.0	113	0.00
51 T	n-Heptane	0.235	0.218	7.2	118	0.00
52 T	cis-1,3-Dichloropropene	0.399	0.376	5.8	116	0.00
53 T	4-Methyl-2-pentanone	0.210	0.201	4.3	118	0.00
54 T	trans-1,3-Dichloropropene	0.386	0.377	2.3	117	0.00
55 T	1,1,2-Trichloroethane	0.252	0.227	9.9	115	0.00

Data File : I:\MS13\DATA\2023_03\24\03242301.D
 Acq On : 24 Mar 2023 2:00
 Sample : CCV R13032423 25ng
 Misc : S35-01202301/S35-03012301 (3/31)

Vial: 1
 Operator: TZ
 Inst : MS13

Quant Time: Mar 24 07:43:35 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
56	IR Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	133	0.00
57	S Toluene-d8 (SS2)	6.428	6.069	5.6	125	0.00
58	T Toluene	6.120	5.068	17.2	114	0.00
59	T 2-Hexanone	2.973	2.738	7.9	121	0.00
60	T Dibromochloromethane	1.796	1.581	12.0	113	0.00
61	T 1,2-Dibromoethane	1.704	1.501	11.9	115	0.00
62	T n-Butyl Acetate	3.379	3.119	7.7	122	0.00
63	T n-Octane	1.203	1.041	13.5	120	0.00
64	T Tetrachloroethene	1.862	1.550	16.8	111	0.00
65	T Chlorobenzene	4.037	3.397	15.9	114	0.00
66	T Ethylbenzene	7.301	5.886	19.4	114	0.00
67	T m- & p-Xylenes	5.876	4.762	19.0	114	0.00
68	T Bromoform	1.623	1.457	10.2	112	0.00
69	T Styrene	4.040	3.597	11.0	113	0.00
70	T o-Xylene	5.619	4.710	16.2	115	0.00
71	T n-Nonane	2.719	2.486	8.6	123	0.00
72	T 1,1,2,2-Tetrachloroethane	2.427	2.152	11.3	115	0.00
73	S Bromofluorobenzene (SS3)	2.354	2.216	5.9	123	0.00
74	T Cumene	6.833	5.759	15.7	113	0.00
75	T alpha-Pinene	3.153	2.689	14.7	112	0.00
76	T n-Propylbenzene	8.192	7.070	13.7	116	0.00
77	T 3-Ethyltoluene	0.000	0.000	0.0	107	-0.01
78	T 4-Ethyltoluene	6.555	5.648	13.8	114	0.00
79	T 1,3,5-Trimethylbenzene	5.797	4.858	16.2	112	0.00
80	T alpha-Methylstyrene	0.000	0.000	0.0	0#	-17.19#
81	T 2-Ethyltoluene	0.000	0.000	0.0	107	-0.01
82	T 1,2,4-Trimethylbenzene	5.716	4.940	13.6	114	0.00
83	T n-Decane	0.000	0.000	0.0	118	0.00
84	T Benzyl Chloride	4.625	4.439	4.0	118	0.00
85	T 1,3-Dichlorobenzene	3.457	2.903	16.0	113	0.00
86	T 1,4-Dichlorobenzene	3.581	2.983	16.7	114	0.00
87	T sec-Butylbenzene	7.540	6.209	17.7	110	0.00
88	T 4-Isopropyltoluene (p-Cymen	6.627	5.590	15.6	111	0.00
89	T 1,2,3-Trimethylbenzene	0.000	0.000	0.0	107	-0.01
90	T 1,2-Dichlorobenzene	3.422	2.848	16.8	112	0.00
91	T d-Limonene	1.933	1.745	9.7	112	0.00
92	T 1,2-Dibromo-3-Chloropropane	1.296	1.131	12.7	110	0.00
93	T n-Undecane	0.000	0.000	0.0	0#	-18.27#
94	T 1,2,4-Trichlorobenzene	2.574	2.272	11.7	111	0.00
95	T Naphthalene	6.196	5.639	9.0	111	0.00
96	T n-Dodecane	0.000	0.000	0.0	127	0.00
97	T Hexachlorobutadiene	1.995	1.350	32.3#	97	0.00
98	T Cyclohexanone	0.000	0.000	0.0	59	0.00
99	T tert-Butylbenzene	5.366	4.174	22.2	106	0.00
100	T n-Butylbenzene	5.862	5.199	11.3	117	0.00
101	T 1,1,1,2-Tetrachloroethane	1.522	1.292	15.1	111	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data File : I:\MS13\DATA\2023_03\24\03242301.D
 Acq On : 24 Mar 2023 2:00
 Sample : CCV R13032423 25ng
 Misc : S35-01202301/S35-03012301 (3/31)

Vial: 1
 Operator: TZ
 Inst : MS13

TZ 3/24/23

Quant Time: Mar 24 07:43:35 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.36	130	245997	12.500	ng	0.00
37) 1,4-Difluorobenzene (IS2)	9.40	114	1087738	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	14.88	54	202018	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.12	65	415695	12.734	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	101.84%
57) Toluene-d8 (SS2)	12.49	98	1226130	11.802	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.40%
73) Bromofluorobenzene (SS3)	16.86	174	447649	11.764	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.08%

Target Compounds

						Qvalue
2) Propene	3.38	42	569426	23.144	ng	99
3) Dichlorodifluoromethan...	3.46	85	1083213	24.041	ng	100
4) Chloromethane	3.59	50	792041	24.376	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	3.71	135	539698	23.724	ng	99
6) Vinyl Chloride	3.79	62	688982	22.898	ng	99
7) 1,3-Butadiene	3.91	54	544945	23.906	ng	100
8) Bromomethane	4.12	94	462349	22.930	ng	100
9) Chloroethane	4.26	64	343406	24.129	ng	99
10) Ethanol	4.44	45	1357086	77.677	ng	100
11) Acetonitrile	4.58	41	938730	20.681	ng	99
12) Acrolein	4.65	56	654632	45.308	ng	99
13) Acetone	4.76	58	1756985	117.833	ng	99
14) Trichlorofluoromethane	4.87	101	962408	23.726	ng	99
15) 2-Propanol (Isopropanol)	4.99	45	2822101	46.882	ng	99
16) Acrylonitrile	5.14	53	1368772	48.121	ng	99
17) 1,1-Dichloroethene	5.37	96	512142	24.587	ng	96
18) 2-Methyl-2-Propanol (t...	5.46	59	2914543	49.512	ng	100
19) Methylene Chloride	5.49	84	523248	23.938	ng	96
20) 3-Chloro-1-propene (Al...	5.56	41	859915	24.637	ng	98
21) Trichlorotrifluoroethane	5.68	151	516227	24.203	ng	99
22) Carbon Disulfide	5.72	76	3909196	45.164	ng	100
23) trans-1,2-Dichloroethene	6.26	61	821227	25.741	ng	97
24) 1,1-Dichloroethane	6.44	63	949070	24.396	ng	100
25) Methyl tert-Butyl Ether	6.47	73	1673522	24.544	ng	99
26) Vinyl Acetate	6.56	86	270328	67.046	ng	# 91
27) 2-Butanone (MEK)	6.79	72	658817	49.772	ng	93
28) cis-1,2-Dichloroethene	7.20	61	770067	24.507	ng	98
29) Diisopropyl Ether	7.38	87	770181	46.845	ng	# 87
30) Ethyl Acetate	7.39	61	861810	99.012	ng	97
31) n-Hexane	7.39	57	782760	23.365	ng	99
32) Chloroform	7.49	83	959285	24.204	ng	100
34) Tetrahydrofuran (THF)	7.86	72	614386	45.194	ng	96
35) Ethyl tert-Butyl Ether	7.92	87	1221922	48.658	ng	97
36) 1,2-Dichloroethane	8.23	62	769525	25.635	ng	99
38) 1,1,1-Trichloroethane	8.50	97	865023	24.026	ng	99
39) Isopropyl Acetate	9.40	61	30458	No Calib		
40) 1-Butanol	8.89	56	26346	No Calib		
41) Benzene	9.00	78	2054315	24.277	ng	100
42) Carbon Tetrachloride	9.16	117	769669	24.233	ng	100
43) Cyclohexane	9.31	84	1477022	47.613	ng	98
44) tert-Amyl Methyl Ether	9.68	73	3002624	48.928	ng	99
45) 1,2-Dichloropropane	9.94	63	510460	23.910	ng	99
46) Bromodichloromethane	10.16	83	771719	24.664	ng	100
47) Trichloroethene	10.23	130	585885	23.634	ng	100
48) 1,4-Dioxane	10.21	88	412657	24.191	ng	98
49) 2,2,4-Trimethylpentane...	10.31	57	2010418	23.364	ng	100
50) Methyl Methacrylate	10.49	100	432453	49.698	ng	96

Data File : I:\MS13\DATA\2023_03\24\03242301.D
 Acq On : 24 Mar 2023 2:00
 Sample : CCV R13032423 25ng
 Misc : S35-01202301/S35-03012301 (3/31)

Vial: 1
 Operator: TZ
 Inst : MS13

Quant Time: Mar 24 07:43:35 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.64	71	502906	24.560	ng	100
52) cis-1,3-Dichloropropene	11.33	75	883858	25.477	ng	100
53) 4-Methyl-2-pentanone	11.39	58	938866	51.465	ng	96
54) trans-1,3-Dichloropropene	12.02	75	835712	24.870	ng	99
55) 1,1,2-Trichloroethane	12.24	97	524614	23.953	ng	100
58) Toluene	12.62	91	2149917	21.737	ng	100
59) 2-Hexanone	12.97	43	2344972	48.811	ng	98
60) Dibromochloromethane	13.13	129	689797	23.765	ng	100
61) 1,2-Dibromoethane	13.45	107	630752	22.908	ng	100
62) n-Butyl Acetate	13.82	43	2583679	47.310	ng	98
63) n-Octane	13.96	57	449955	23.136	ng	97
64) Tetrachloroethene	14.08	166	663899	22.065	ng	100
65) Chlorobenzene	14.94	112	1454667	22.298	ng	100
66) Ethylbenzene	15.45	91	2497164	21.164	ng	99
67) m- & p-Xylenes	15.69	91	4040776	42.551	ng	100
68) Bromoform	15.72	173	629697	24.013	ng	99
69) Styrene	16.14	104	1540442	23.592	ng	99
70) o-Xylene	16.28	91	2017022	22.213	ng	99
71) n-Nonane	16.64	43	1064875	24.235	ng	97
72) 1,1,2,2-Tetrachloroethane	16.24	83	921448	23.491	ng	100
74) Cumene	17.06	105	2489601	22.543	ng	100
75) alpha-Pinene	17.58	93	1184420	23.245	ng	100
76) n-Propylbenzene	17.75	91	3056448	23.086	ng	99
77) 3-Ethyltoluene	17.34	105	723	No Calib	#	
78) 4-Ethyltoluene	17.95	105	2487478	23.480	ng	100
79) 1,3,5-Trimethylbenzene	18.06	105	2080694	22.210	ng	100
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.34	105	723	No Calib	#	
82) 1,2,4-Trimethylbenzene	18.61	105	2095914	22.688	ng	99
83) n-Decane	17.06	58	19842	No Calib		
84) Benzyl Chloride	18.76	91	3802060	50.868	ng	99
85) 1,3-Dichlorobenzene	18.78	146	1243390	22.252	ng	100
86) 1,4-Dichlorobenzene	18.86	146	1277700	22.079	ng	100
87) sec-Butylbenzene	18.96	105	2659178	21.823	ng	100
88) 4-Isopropyltoluene (p-...	19.18	119	2394123	22.354	ng	99
89) 1,2,3-Trimethylbenzene	17.34	105	723	No Calib	#	
90) 1,2-Dichlorobenzene	19.30	146	1231162	22.263	ng	100
91) d-Limonene	19.36	68	754316	24.147	ng	99
92) 1,2-Dibromo-3-Chloropr...	19.86	157	959707	45.830	ng	97
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	21.43	180	1918876	46.135	ng	100
95) Naphthalene	21.55	128	2506024	25.026	ng	100
96) n-Dodecane	19.18	58	85482	No Calib		
97) Hexachlorobutadiene	21.99	225	578026	17.923	ng	100
98) Cyclohexanone	15.69	55	1413	No Calib	#	
99) tert-Butylbenzene	18.60	119	1787466	20.611	ng	99
100) n-Butylbenzene	19.72	91	2247673	23.726	ng	99
101) 1,1,1,2-Tetrachloroethane	14.92	131	553142	22.494	ng	100

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

Vial: 1
Operator: TZ
Inst : MS13

Quant Time: Mar 24 07:43:35 2023

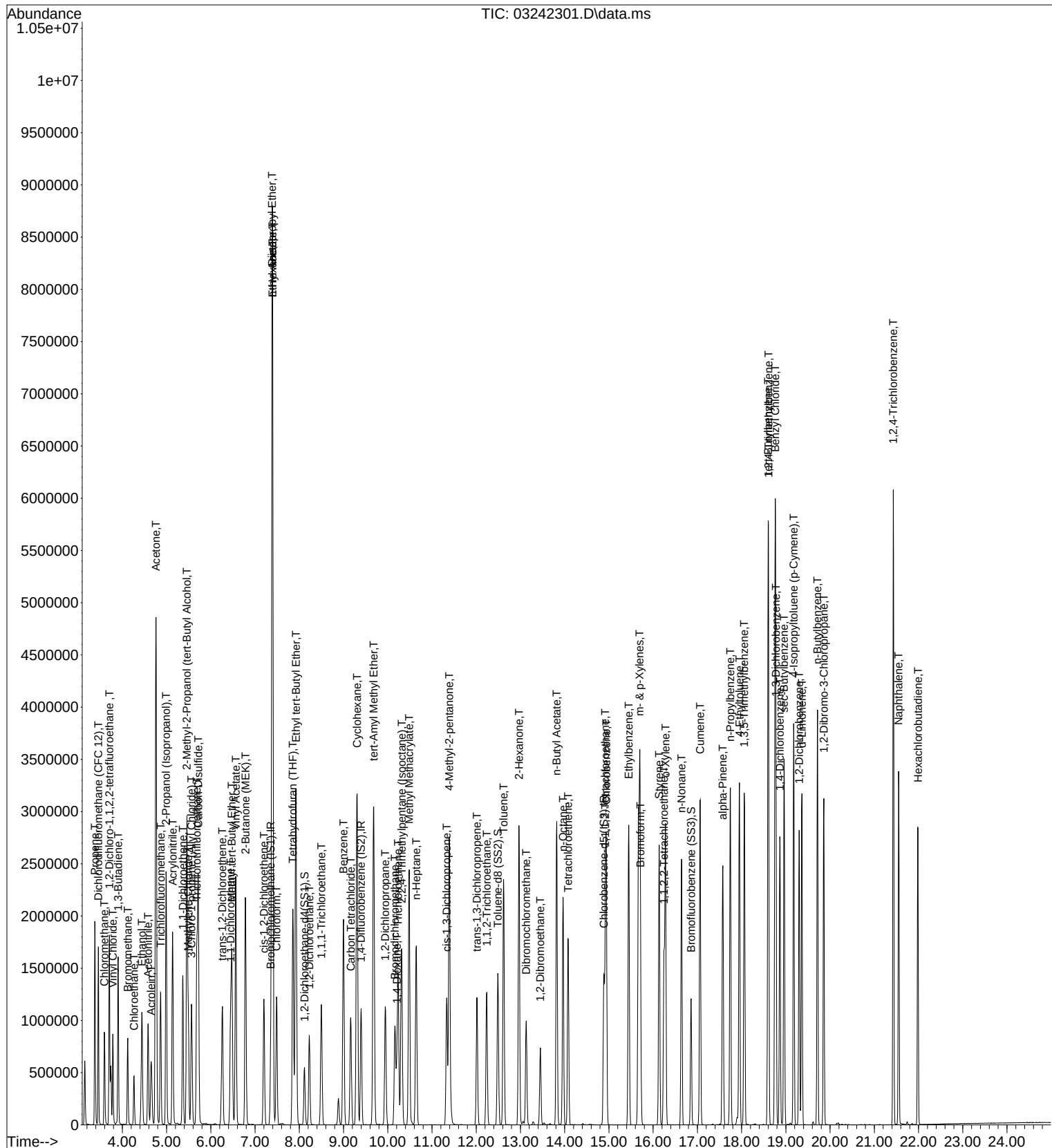
Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA T0-15 per SOP V0A-T015 (CASS T0-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242302.D
 Acq On : 24 Mar 2023 2:35
 Sample : CCV C13032423 5.0ng
 Misc : S35-01202301/S35-02282306 (3/30)

Vial: 16
 Operator: TZ
 Inst : MS13

TZ 3/24/23

Quant Time: Mar 24 09:13:19 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 IR	Bromochloromethane (C_1)	1.000	1.000	0.0	119	0.00
2 T	Chloropentafluoroethane	1.314	1.374	-4.6	124	0.01
3 T	1,1,1,2-Tetrafluoroethane (	1.009	1.066	-5.6	128	0.00
4 T	1,1-Difluoroethane	0.857	0.988	-15.3	137	0.00
5 T	Chlorodifluoromethane (CFC	0.305	0.329	-7.9	129	0.00
6 T	1-Chloro-1,1-Difluoroethane	2.025	2.170	-7.2	128	0.00
7 T	Dichlorofluoromethane (CFC	2.112	2.309	-9.3	131	0.01
8 T	Vinylbromide	0.971	0.986	-1.5	120	0.00
9 T	2,2-Dichloro-1,1,1-trifluor	1.467	1.551	-5.7	127	0.01
10 T	2-Methylbutane	0.914	1.038	-13.6	133	0.00
11 T	Methyl Acetate	2.060	2.507	-21.7	146	0.00
12 T	2-Methylpentane	0.873	0.949	-8.7	131	0.00
13 T	2,2-Dichloropropane	1.708	1.767	-3.5	124	0.00
14 T	1,1-Dichloropropene	1.409	1.515	-7.5	128	-0.01
15 T	Thiophene	2.179	2.282	-4.7	124	0.00
16 IR	1,4-Difluorobenzene (C_2)	1.000	1.000	0.0	121	-0.01
17 T	2,3-Dimethylpentane	0.368	0.408	-10.9	135	-0.01
18 T	Dibromomethane	0.222	0.204	8.1	111	-0.01
19 IR	Chlorobenzene-d5 (C_3)	1.000	1.000	0.0	138	0.00
20 T	Methyl Cyclohexane	2.081	2.006	3.6	134	-0.01
21 T	1,3-Dichloropropane	2.220	2.013	9.3	129	0.00
22 T	1,1,1,2-Tetrachloroethane	1.615	1.349	16.5	116	0.00
23 T	1-Chlorohexane	2.189	1.964	10.3	123	0.00
24 T	1,2,3-Trichloropropane	2.329	2.035	12.6	119	0.00
25 T	Bromobenzene	2.761	2.452	11.2	124	0.00
26 T	2-Chlorotoluene	4.995	4.393	12.1	122	0.00
27 T	4-Chlorotoluene	5.315	4.544	14.5	118	0.00
28 T	Indane	6.294	5.316	15.5	116	0.00
29 T	Indene	5.474	4.518	17.5	112	0.00
30 T	1,2,4,5-Tetramethylbenzene	6.280	5.174	17.6	110	0.00
31 T	1,2,3,4-Tetramethylbenzene	6.446	5.201	19.3	109	0.00
32 T	1,2,3,5-Tetramethylbenzene	6.068	4.827	20.5	104	0.00
33 T	1,2,3-Trichlorobenzene	2.689	1.902	29.3	90	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data File : I:\MS13\DATA\2023_03\24\03242302.D
 Acq On : 24 Mar 2023 2:35
 Sample : CCV C13032423 5.0ng
 Misc : S35-01202301/S35-02282306 (3/30)

Vial: 16
 Operator: TZ
 Inst : MS13

TZ 3/24/23

Quant Time: Mar 24 09:13:19 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

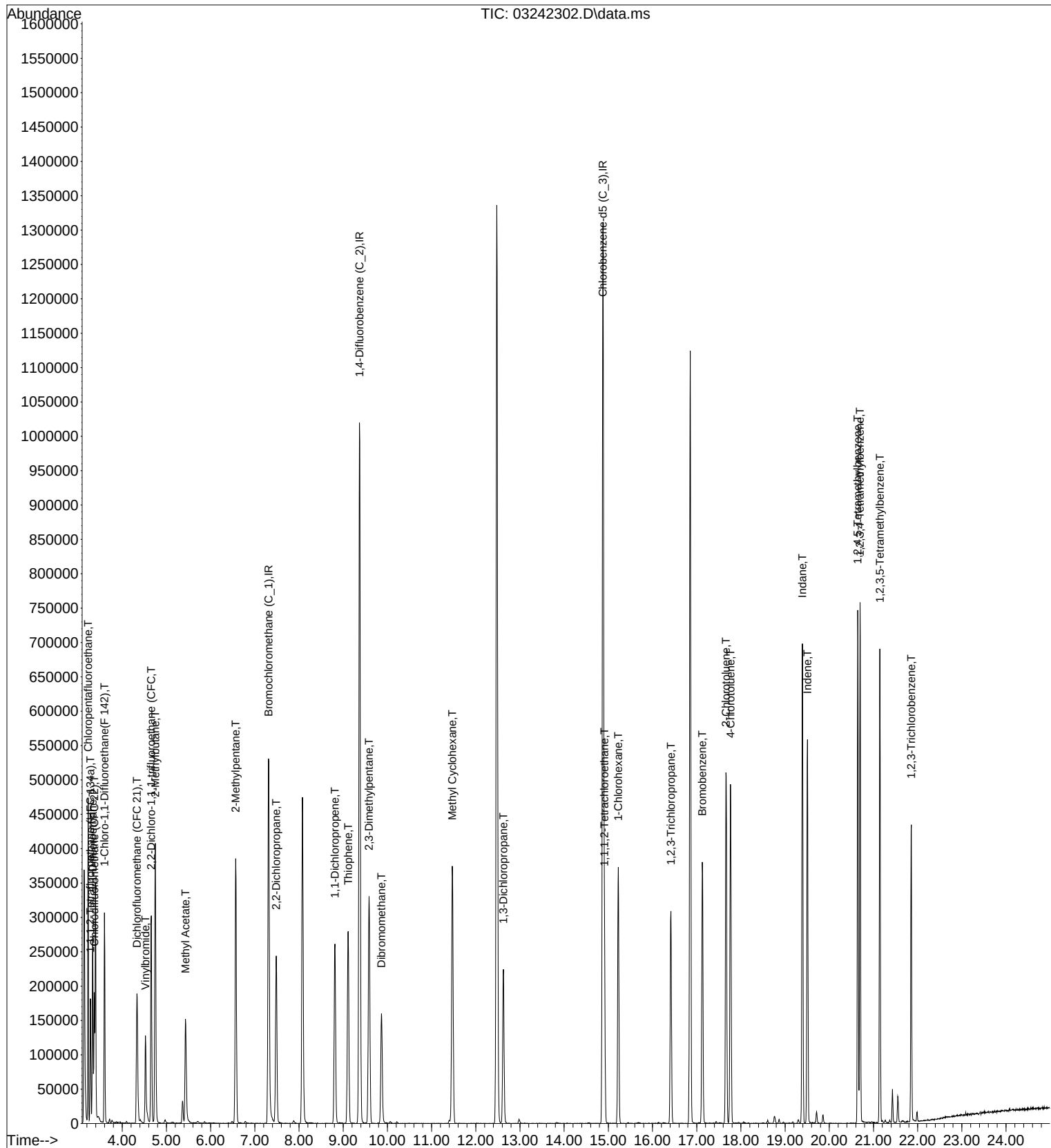
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.32	130	236076	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	9.37	114	1013005	12.500	ng	-0.01
19) Chlorobenzene-d5 (C_3)	14.88	54	184885	12.500	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.23	85	134961	5.439	ng	97
3) 1,1,1,2-Tetrafluoroeth...	3.28	83	102681	5.391	ng	97
4) 1,1-Difluoroethane	3.33	65	98870	6.106	ng	95
5) Chlorodifluoromethane ...	3.37	67	32888	5.711	ng	95
6) 1-Chloro-1,1-Difluoroe...	3.60	65	213112	5.573	ng	100
7) Dichlorofluoromethane ...	4.33	67	220231	5.521	ng	99
8) Vinylbromide	4.53	108	92163	5.027	ng	99
9) 2,2-Dichloro-1,1,1-tri...	4.66	83	153826	5.552	ng	100
10) 2-Methylbutane	4.75	57	99952	5.789	ng	92
11) Methyl Acetate	5.43	43	229639	5.902	ng	96
12) 2-Methylpentane	6.57	71	89654	5.435	ng	83
13) 2,2-Dichloropropane	7.49	77	165185	5.120	ng	100
14) 1,1-Dichloropropene	8.81	75	148739	5.588	ng	95
15) Thiophene	9.11	84	217651	5.288	ng	94
17) 2,3-Dimethylpentane	9.59	56	172107	5.767	ng	95
18) Dibromomethane	9.86	174	89259	4.963	ng	94
20) Methyl Cyclohexane	11.47	55	158741	5.158	ng	91
21) 1,3-Dichloropropane	12.62	76	156316	4.760	ng	93
22) 1,1,1,2-Tetrachloroethane	14.91	131	87778	3.675	ng	100
23) 1-Chlorohexane	15.23	91	149623	4.621	ng	95
24) 1,2,3-Trichloropropane	16.42	75	157986	4.586	ng	97
25) Bromobenzene	17.13	77	190375	4.662	ng	91
26) 2-Chlorotoluene	17.66	91	344340	4.661	ng	97
27) 4-Chlorotoluene	17.76	91	339387	4.317	ng	97
28) Indane	19.39	117	385262	4.139	ng	100
29) Indene	19.51	115	310748	3.838	ng	100
30) 1,2,4,5-Tetramethylben...	20.64	119	382616	4.119	ng	100
31) 1,2,3,4-Tetramethylben...	20.69	119	388501	4.075	ng	99
32) 1,2,3,5-Tetramethylben...	21.14	119	353442	3.938	ng	99
33) 1,2,3-Trichlorobenzene	21.86	180	140641	3.537	ng	98

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

Vial: 16
Operator: TZ
Inst : MS13

Quant Time: Mar 24 09:13:19 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS16\DATA\2023_03\24\03242302.D

Vial: 2

Acq On : 24 Mar 2023 5:38

Operator: WA

Sample : CCV R16032423_5ng

Inst : GCMS-16

Misc : S35-01312301/S37-03012302 (3/31)

Quant Time: Mar 24 06:14:41 2023

Quant Method : I:\MS16\METHODS\R16122022.M

3/24/23

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:TO15B.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 IR	Bromochloromethane (IS1)	1.000	1.000	0.0	122	0.00
2 T	Propene	1.686	1.795	-6.5	143	-0.02
3 T	Dichlorodifluoromethane (CF	1.868	2.080	-11.3	129	-0.01
4 T	Chloromethane	1.747	1.272	27.2	79	-0.01
5 T	1,2-Dichloro-1,1,2,2-tetra	1.043	1.121	-7.5	121	0.00
6 T	Vinyl Chloride	1.622	1.785	-10.0	121	-0.02
7 T	1,3-Butadiene	1.359	1.464	-7.7	116	-0.02
8 T	Bromomethane	0.815	0.860	-5.5	117	-0.01
9 T	Chloroethane	0.780	0.784	-0.5	112	-0.02
10 T	Ethanol	1.203	0.984	18.2	99	0.00
11 T	Acetonitrile	3.013	2.540	15.7	106	0.00
12 T	Acrolein	0.852	0.776	8.9	108	-0.01
13 T	Acetone	0.920	0.850	7.6	113	-0.01
14 T	Trichlorofluoromethane	1.724	1.871	-8.5	124	-0.02
15 T	2-Propanol (Isopropanol)	3.204	2.485	22.4	82	-0.04
16 T	Acrylonitrile	1.716	1.578	8.0	105	0.00
17 T	1,1-Dichloroethene	0.992	0.996	-0.4	118	-0.02
18 T	2-Methyl-2-Propanol (tert-B	2.284	2.004	12.3	91	0.00
19 T	Methylene Chloride	1.017	1.047	-2.9	123	0.00
20 T	3-Chloro-1-propene (Allyl C	1.870	1.684	9.9	106	-0.01
21 T	Trichlorotrifluoroethane	0.859	0.817	4.9	109	-0.01
22 T	Carbon Disulfide	3.625	3.678	-1.5	121	-0.01
23 T	trans-1,2-Dichloroethene	1.533	1.527	0.4	112	0.00
24 T	1,1-Dichloroethane	1.863	1.864	-0.1	114	-0.01
25 T	Methyl tert-Butyl Ether	2.701	2.956	-9.4	124	-0.01
26 T	Vinyl Acetate	0.206	0.203	1.5	111	-0.01
27 T	2-Butanone (MEK)	0.667	0.749	-12.3	118	0.00
28 T	cis-1,2-Dichloroethene	1.532	1.479	3.5	110	-0.01
29 T	Diisopropyl Ether	0.949	1.044	-10.0	121	0.00
30 T	Ethyl Acetate	0.436	0.491	-12.6	115	0.00
31 T	n-Hexane	2.183	2.131	2.4	113	0.00
32 T	Chloroform	1.668	1.818	-9.0	124	0.00
33 S	1,2-Dichloroethane-d4(SS1)	1.662	1.775	-6.8	132	0.00
34 T	Tetrahydrofuran (THF)	0.684	0.694	-1.5	119	0.00
35 T	Ethyl tert-Butyl Ether	0.994	1.080	-8.7	140	0.00
36 T	1,2-Dichloroethane	1.354	1.470	-8.6	122	0.00
37 IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	126	0.00
38 T	1,1,1-Trichloroethane	0.338	0.338	0.0	116	0.00
39 T	Isopropyl Acetate	0.000	0.000	0.0	0#	-13.67#
40 T	1-Butanol	0.000	0.000	0.0	0#	-12.65#
41 T	Benzene	0.880	0.884	-0.5	119	0.00
42 T	Carbon Tetrachloride	0.286	0.295	-3.1	118	0.00
43 T	Cyclohexane	0.372	0.375	-0.8	120	0.00
44 T	tert-Amyl Methyl Ether	0.442	0.502	-13.6	157	0.00
45 T	1,2-Dichloropropane	0.247	0.240	2.8	116	0.00
46 T	Bromodichloromethane	0.290	0.310	-6.9	124	0.00
47 T	Trichloroethene	0.239	0.240	-0.4	115	0.00
48 T	1,4-Dioxane	0.166	0.179	-7.8	120	0.00
49 T	2,2,4-Trimethylpentane (Iso	1.188	1.063	10.5	107	0.00
50 T	Methyl Methacrylate	0.099	0.097	2.0	115	0.00
51 T	n-Heptane	0.258	0.262	-1.6	118	0.00
52 T	cis-1,3-Dichloropropene	0.325	0.349	-7.4	115	0.00
53 T	4-Methyl-2-pentanone	0.204	0.222	-8.8	115	0.00
54 T	trans-1,3-Dichloropropene	0.312	0.306	1.9	114	0.00
55 T	1,1,2-Trichloroethane	0.214	0.216	-0.9	119	0.00

Data File : I:\MS16\DATA\2023_03\24\03242302.D
 Acq On : 24 Mar 2023 5:38
 Sample : CCV R16032423_5ng
 Misc : S35-01312301/S37-03012302 (3/31)

Vial: 2
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 24 06:14:41 2023
 Quant Method : I:\MS16\METHODS\R16122022.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Dec 21 03:06:38 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15B.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
56	IR Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	132	0.00
57	S Toluene-d8 (SS2)	5.472	5.411	1.1	128	0.00
58	T Toluene	4.793	4.674	2.5	119	0.00
59	T 2-Hexanone	2.532	2.790	-10.2	119	0.00
60	T Dibromochloromethane	1.200	1.182	1.5	115	0.00
61	T 1,2-Dibromoethane	1.147	1.209	-5.4	121	0.00
62	T n-Butyl Acetate	2.890	3.081	-6.6	125	0.00
63	T n-Octane	1.227	1.087	11.4	107	0.00
64	T Tetrachloroethene	1.220	1.190	2.5	117	0.00
65	T Chlorobenzene	3.168	3.045	3.9	117	0.00
66	T Ethylbenzene	5.413	5.344	1.3	119	0.00
67	T m- & p-Xylenes	4.281	4.149	3.1	117	-0.01
68	T Bromoform	1.023	0.934	8.7	115	0.00
69	T Styrene	3.012	3.135	-4.1	116	0.00
70	T o-Xylene	4.210	4.207	0.1	120	0.00
71	T n-Nonane	3.005	2.801	6.8	111	0.00
72	T 1,1,2,2-Tetrachloroethane	1.847	1.959	-6.1	126	0.00
73	S Bromofluorobenzene (SS3)	1.707	1.592	6.7	123	0.00
74	T Cumene	5.308	5.404	-1.8	121	0.00
75	T alpha-Pinene	1.363	1.471	-7.9	221#	0.00
76	T n-Propylbenzene	6.462	6.632	-2.6	122	0.00
77	T 3-Ethyltoluene	0.000	0.000	0.0	0#	-0.01
78	T 4-Ethyltoluene	5.037	5.273	-4.7	119	0.00
79	T 1,3,5-Trimethylbenzene	4.512	4.357	3.4	117	0.00
80	T alpha-Methylstyrene	0.000	0.000	0.0	0#	0.00
81	T 2-Ethyltoluene	0.000	0.000	0.0	0#	-0.01
82	T 1,2,4-Trimethylbenzene	4.314	4.562	-5.7	120	0.00
83	T n-Decane	0.000	0.000	0.0	0#	0.00
84	T Benzyl Chloride	2.623	2.130	18.8	106	0.00
85	T 1,3-Dichlorobenzene	2.389	2.460	-3.0	115	0.00
86	T 1,4-Dichlorobenzene	2.486	2.446	1.6	113	0.00
87	T sec-Butylbenzene	5.880	6.145	-4.5	121	0.00
88	T 4-Isopropyltoluene (p-Cymen	6.332	5.854	7.5	109	0.00
89	T 1,2,3-Trimethylbenzene	0.000	0.000	0.0	0#	-0.01
90	T 1,2-Dichlorobenzene	2.352	2.423	-3.0	116	0.00
91	T d-Limonene	1.232	1.290	-4.7	160	0.00
92	T 1,2-Dibromo-3-Chloropropane	0.883	0.897	-1.6	113	0.00
93	T n-Undecane	0.000	0.000	0.0	0#	0.00
94	T 1,2,4-Trichlorobenzene	1.612	1.765	-9.5	119	0.00
95	T Naphthalene	5.292	5.379	-1.6	119	0.00
96	T n-Dodecane	0.000	0.000	0.0	0#	-22.59#
97	T Hexachlorobutadiene	1.102	1.096	0.5	123	0.00
98	T Cyclohexanone	0.000	0.000	0.0	0#	0.06
99	T tert-Butylbenzene	4.446	4.558	-2.5	117	0.00
100	T n-Butylbenzene	4.623	5.082	-9.9	126	0.00
101	T 1,1,1,2-Tetrachloroethane	1.111	1.090	1.9	118	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data File : I:\MS16\DATA\2023_03\24\03242302.D

Vial: 2

Acq On : 24 Mar 2023 5:38

Operator: WA

Sample : CCV R16032423_5ng

Inst : GCMS-16

Misc : S35-01312301/S37-03012302 (3/31)

Quant Time: Mar 24 06:14:41 2023

3/24/23

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.30	130	221645	12.500	ng	0.00
37) 1,4-Difluorobenzene (IS2)	13.42	114	1029043	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	17.72	54	213638	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.15	65	393529	13.351	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	106.80%
57) Toluene-d8 (SS2)	15.87	98	1155938	12.359	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	98.88%
73) Bromofluorobenzene (SS3)	19.10	174	340028	11.656	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.28%

Target Compounds

						Qvalue
2) Propene	4.17	42	167064	5.587	ng	98
3) Dichlorodifluoromethan...	4.34	85	195511	5.901	ng	99
4) Chloromethane	4.63	50	116183	3.750	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	4.90	135	103321	5.585	ng	100
6) Vinyl Chloride	5.05	62	159815	5.558	ng	100
7) 1,3-Butadiene	5.32	54	137617	5.713	ng	95
8) Bromomethane	5.76	94	77788	5.381	ng	98
9) Chloroethane	6.10	64	71580	5.172	ng	98
10) Ethanol	6.48	45	301069	14.115	ng	99
11) Acetonitrile	6.73	41	204908	3.836	ng	99
12) Acrolein	6.92	56	132715	8.786	ng	99
13) Acetone	7.13	58	397018	24.337	ng	89
14) Trichlorofluoromethane	7.38	101	172491	5.644	ng	98
15) 2-Propanol (Isopropanol)	7.64	45	451624	7.950	ng	95
16) Acrylonitrile	7.90	53	286864	9.425	ng	100
17) 1,1-Dichloroethene	8.35	96	95364	5.422	ng	98
18) 2-Methyl-2-Propanol (t...	8.52	59	374959	9.259	ng	97
19) Methylene Chloride	8.57	84	98357	5.455	ng	92
20) 3-Chloro-1-propene (Al...	8.74	41	158256	4.773	ng	96
21) Trichlorotrifluoroethane	8.99	151	78268	5.141	ng	92
22) Carbon Disulfide	8.84	76	694560	10.807	ng	100
23) trans-1,2-Dichloroethene	9.85	61	146225	5.379	ng	96
24) 1,1-Dichloroethane	10.10	63	176800	5.353	ng	99
25) Methyl tert-Butyl Ether	10.21	73	280441	5.855	ng	95
26) Vinyl Acetate	10.36	86	50403	13.827	ng	# 90
27) 2-Butanone (MEK)	10.60	72	138825	11.739	ng	93
28) cis-1,2-Dichloroethene	11.11	61	138986	5.117	ng	96
29) Diisopropyl Ether	11.42	87	196197	11.656	ng	# 93
30) Ethyl Acetate	11.42	61	183766	23.758	ng	100
31) n-Hexane	11.41	57	198402	5.125	ng	99
32) Chloroform	11.46	83	170845	5.775	ng	99
34) Tetrahydrofuran (THF)	11.87	72	125534	10.349	ng	94
35) Ethyl tert-Butyl Ether	12.01	87	203042	11.523	ng	92
36) 1,2-Dichloroethane	12.26	62	140795	5.862	ng	99
38) 1,1,1-Trichloroethane	12.54	97	146075	5.247	ng	100
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.02	78	389261	5.372	ng	99
42) Carbon Tetrachloride	13.18	117	126463	5.368	ng	99
43) Cyclohexane	13.31	84	324256	10.594	ng	91
44) tert-Amyl Methyl Ether	13.66	73	438006	12.045	ng	99
45) 1,2-Dichloropropane	13.87	63	103628	5.101	ng	99
46) Bromodichloromethane	14.06	83	136652	5.724	ng	99
47) Trichloroethene	14.12	130	103839	5.269	ng	99
48) 1,4-Dioxane	14.09	88	77992	5.717	ng	93
49) 2,2,4-Trimethylpentane...	14.18	57	472588	4.834	ng	91
50) Methyl Methacrylate	14.33	100	84595	10.353	ng	92

Data File : I:\MS16\DATA\2023_03\24\03242302.D

Vial: 2

Acq On : 24 Mar 2023 5:38

Operator: WA

Sample : CCV R16032423_5ng

Inst : GCMS-16

Misc : S35-01312301/S37-03012302 (3/31)

Quant Time: Mar 24 06:14:41 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

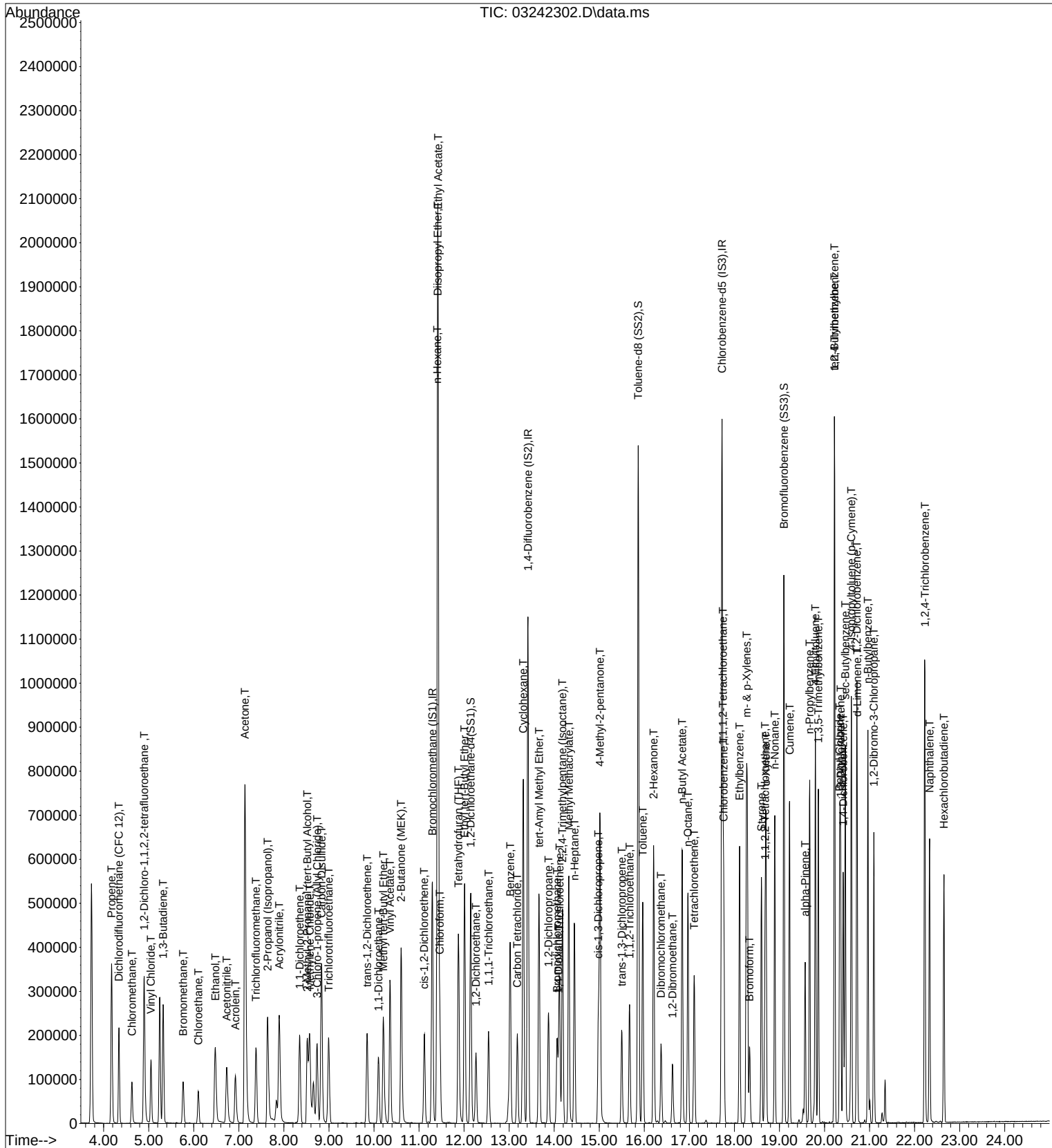
DataAcq Meth:TO15B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.45	71	114130	5.368	ng	92
52) cis-1,3-Dichloropropene	14.98	75	155247	5.795	ng	100
53) 4-Methyl-2-pentanone	15.01	58	196232	11.685	ng	92
54) trans-1,3-Dichloropropene	15.50	75	128464	4.995	ng	99
55) 1,1,2-Trichloroethane	15.67	97	94308	5.363	ng	94
58) Toluene	15.96	91	419355	5.119	ng	98
59) 2-Hexanone	16.21	43	505388	11.680	ng	96
60) Dibromochloromethane	16.37	129	109089	5.318	ng	99
61) 1,2-Dibromoethane	16.62	107	107465	5.482	ng	100
62) n-Butyl Acetate	16.84	43	539793	10.928	ng	96
63) n-Octane	16.97	57	99383	4.740	ng	93
64) Tetrachloroethene	17.11	166	107796	5.169	ng	99
65) Chlorobenzene	17.76	112	275781	5.094	ng	99
66) Ethylbenzene	18.11	91	479498	5.183	ng	99
67) m- & p-Xylenes	18.27	91	744482	10.176	ng	100
68) Bromoform	18.33	173	85428	4.886	ng	100
69) Styrene	18.60	104	283936	5.516	ng	98
70) o-Xylene	18.70	91	381111	5.297	ng	99
71) n-Nonane	18.90	43	253757	4.941	ng	94
72) 1,1,2,2-Tetrachloroethane	18.68	83	177457	5.620	ng	100
74) Cumene	19.23	105	494089	5.446	ng	97
75) alpha-Pinene	19.57	93	137058	5.885	ng	98
76) n-Propylbenzene	19.67	91	606447	5.491	ng	98
77) 3-Ethyltoluene	20.22	105	409314	No Calib	#	
78) 4-Ethyltoluene	19.80	105	491179	5.706	ng	97
79) 1,3,5-Trimethylbenzene	19.86	105	394627	5.117	ng	97
80) alpha-Methylstyrene	20.46	118	1917	No Calib	#	
81) 2-Ethyltoluene	20.22	105	409314	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.22	105	409314	5.551	ng	98
83) n-Decane	20.22	58	20156	No Calib		
84) Benzyl Chloride	20.34	91	385908	8.609	ng	98
85) 1,3-Dichlorobenzene	20.36	146	222865	5.458	ng	100
86) 1,4-Dichlorobenzene	20.41	146	221527	5.213	ng	100
87) sec-Butylbenzene	20.46	105	556609	5.539	ng	98
88) 4-Isopropyltoluene (p-...	20.59	119	530259	4.899	ng	98
89) 1,2,3-Trimethylbenzene	20.22	105	409314	No Calib	#	
90) 1,2-Dichlorobenzene	20.72	146	221594	5.513	ng	100
91) d-Limonene	20.73	68	117923	5.602	ng	99
92) 1,2-Dibromo-3-Chloropr...	21.09	157	160939	10.665	ng	# 78
93) n-Undecane	21.35	58	363	No Calib		
94) 1,2,4-Trichlorobenzene	22.23	180	315231	11.444	ng	99
95) Naphthalene	22.33	128	505602	5.590	ng	99
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	22.65	225	99303	5.273	ng	99
98) Cyclohexanone	18.26	55	803	No Calib	#	
99) tert-Butylbenzene	20.22	119	412900	5.434	ng	100
100) n-Butylbenzene	20.96	91	464672	5.882	ng	96
101) 1,1,1,2-Tetrachloroethane	17.75	131	98757	5.200	ng	99

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

Vial: 2
Operator: WA
Inst : GCMS-16

Quant Time: Mar 24 06:14:41 2023



Data File : I:\MS16\DATA\2023_03\24\03242301.D
 Acq On : 24 Mar 2023 5:04
 Sample : CCV C16032423_5ng
 Misc : S35-01312301/S35-02282307 (3/30)

Vial: 16
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 24 06:15:25 2023

3/24/23

Quant Method : I:\MS16\METHODS\C16122022.M

Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD

QLast Update : Wed Dec 21 05:02:49 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 IR	Bromochloromethane (C_1)	1.000	1.000	0.0	144	-0.02
2 T	Chloropentafluoroethane	1.236	1.228	0.6	151	-0.01
3 T	1,1,1,2-Tetrafluoroethane (	0.991	1.055	-6.5	160	-0.03
4 T	1,1-Difluoroethane	0.947	0.877	7.4	140	-0.04
5 T	Chlorodifluoromethane (CFC	0.309	0.323	-4.5	154	-0.02
6 T	1-Chloro-1,1-Difluoroethane	2.131	2.309	-8.4	160	-0.03
7 T	Dichlorofluoromethane (CFC	2.274	2.201	3.2	146	-0.02
8 T	Vinylbromide	0.891	0.866	2.8	147	-0.03
9 T	2,2-Dichloro-1,1,1-trifluor	1.471	1.447	1.6	149	-0.02
10 T	2-Methylbutane	1.400	1.276	8.9	139	-0.03
11 T	Methyl Acetate	3.097	2.787	10.0	138	0.00
12 T	2-Methylpentane	1.229	1.167	5.0	146	-0.02
13 T	2,2-Dichloropropane	0.633	0.494	22.0	123	-0.01
14 T	1,1-Dichloropropene	1.627	1.558	4.2	146	-0.01
15 T	Thiophene	2.445	2.348	4.0	147	-0.01
16 IR	1,4-Difluorobenzene (C_2)	1.000	1.000	0.0	144	-0.01
17 T	2,3-Dimethylpentane	0.543	0.473	12.9	132	-0.01
18 T	Dibromomethane	0.167	0.157	6.0	142	0.00
19 IR	Chlorobenzene-d5 (C_3)	1.000	1.000	0.0	142	0.00
20 T	Methyl Cyclohexane	2.106	1.776	15.7	128	-0.01
21 T	1,3-Dichloropropane	1.959	1.834	6.4	141	0.00
22 T	1,1,1,2-Tetrachloroethane	1.126	1.041	7.5	141	0.00
23 T	1-Chlorohexane	1.820	1.642	9.8	136	0.00
24 T	1,2,3-Trichloropropane	1.853	1.688	8.9	138	-0.01
25 T	Bromobenzene	2.212	1.861	15.9	129	0.00
26 T	2-Chlorotoluene	4.017	3.459	13.9	133	0.00
27 T	4-Chlorotoluene	4.178	3.340	20.1	123	-0.01
28 T	Indane	4.891	3.974	18.7	126	-0.01
29 T	Indene	4.023	2.574	36.0#	102	0.00
30 T	1,2,4,5-Tetramethylbenzene	5.132	1.483	71.1#	47#	-0.01
31 T	1,2,3,4-Tetramethylbenzene	4.890	1.471	69.9#	45#	-0.01
32 T	1,2,3,5-Tetramethylbenzene	4.767	0.994	79.1#	33#	0.00
33 T	1,2,3-Trichlorobenzene	1.769	0.520	70.6#	46#	-0.01

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data File : I:\MS16\DATA\2023_03\24\03242301.D
 Acq On : 24 Mar 2023 5:04
 Sample : CCV C16032423_5ng
 Misc : S35-01312301/S35-02282307 (3/30)

Vial: 16
 Operator: WA
 Inst : GCMS-16

DA 3/24/23

Quant Time: Mar 24 06:15:25 2023
 Quant Method : I:\MS16\METHODS\C16122022.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Dec 21 05:02:49 2022
 Response via : Initial Calibration
 DataAcq Meth:T015B.M

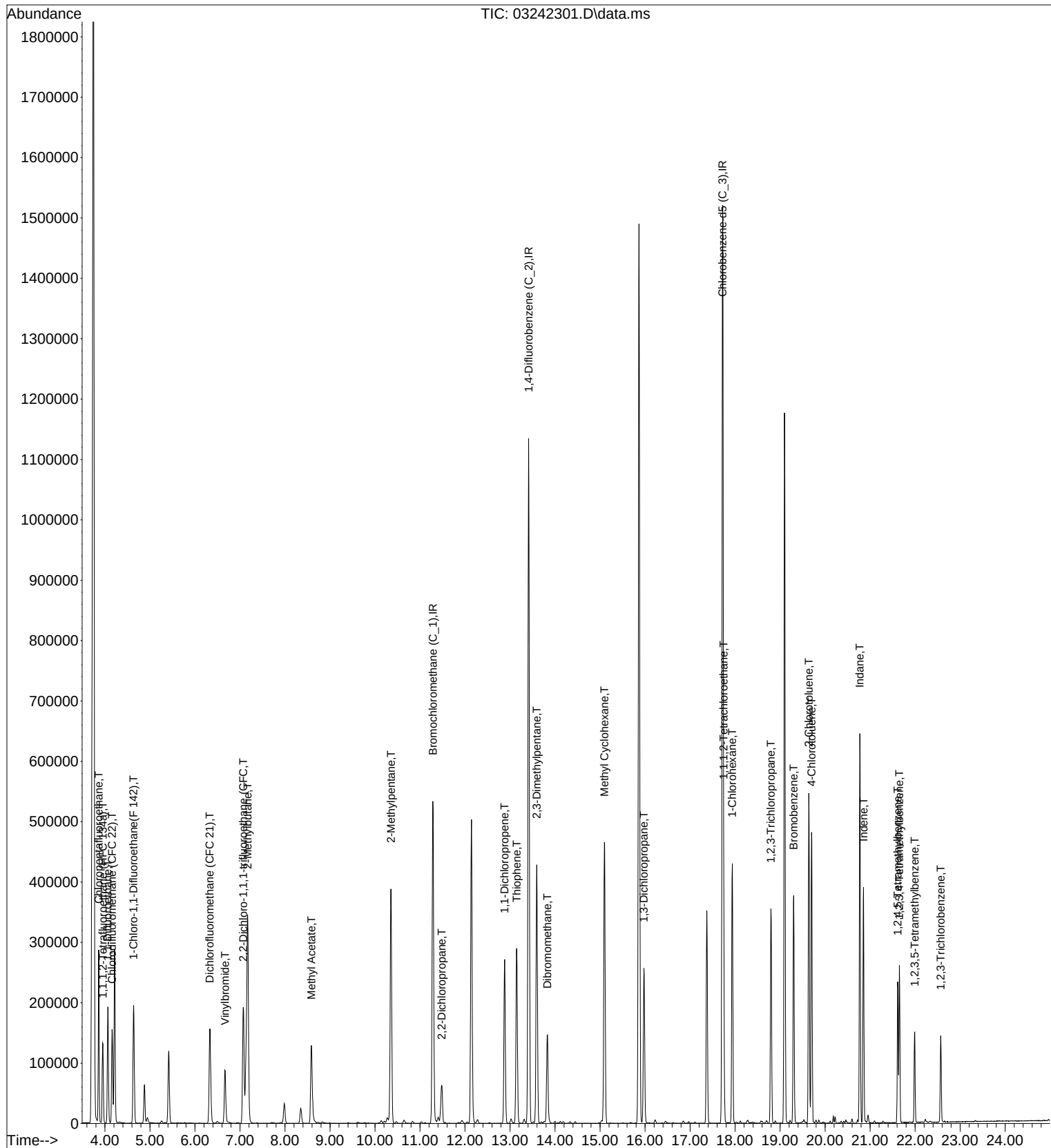
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.28	130	216282	12.500	ng	-0.02
16) 1,4-Difluorobenzene (C_2)	13.41	114	1001300	12.500	ng	-0.01
19) Chlorobenzene-d5 (C_3)	17.72	54	206544	12.500	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.86	85	110459	5.164	ng	96
3) 1,1,1,2-Tetrafluoroeth...	3.95	83	93087	5.431	ng	96
4) 1,1-Difluoroethane	4.06	65	80413	4.906	ng	93
5) Chlorodifluoromethane ...	4.16	67	29656	5.544	ng	80
6) 1-Chloro-1,1-Difluoroe...	4.64	65	207767	5.635	ng	99
7) Dichlorofluoromethane ...	6.33	67	192321	4.887	ng	99
8) Vinylbromide	6.67	108	74190	4.810	ng	99
9) 2,2-Dichloro-1,1,1-tri...	7.07	83	131474	5.164	ng	100
10) 2-Methylbutane	7.17	57	112618	4.649	ng	93
11) Methyl Acetate	8.58	43	233842	4.364	ng	# 96
12) 2-Methylpentane	10.36	71	100944	4.748	ng	92
13) 2,2-Dichloropropane	11.48	77	42304	3.863	ng	100
14) 1,1-Dichloropropene	12.88	75	140134	4.979	ng	99
15) Thiophene	13.15	84	205127	4.848	ng	95
17) 2,3-Dimethylpentane	13.59	56	197118	4.536	ng	97
18) Dibromomethane	13.83	174	67753	5.070	ng	96
20) Methyl Cyclohexane	15.10	55	157010	4.512	ng	90
21) 1,3-Dichloropropane	15.98	76	159086	4.913	ng	97
22) 1,1,1,2-Tetrachloroethane	17.75	131	75667	4.065	ng	99
23) 1-Chlorohexane	17.94	91	139705	4.647	ng	95
24) 1,2,3-Trichloropropane	18.80	75	146465	4.785	ng	100
25) Bromobenzene	19.30	77	161418	4.416	ng	97
26) 2-Chlorotoluene	19.64	91	302895	4.564	ng	99
27) 4-Chlorotoluene	19.70	91	278684	4.037	ng	100
28) Indane	20.77	117	321785	3.981	ng	97
29) Indene	20.85	115	197747	2.975	ng	97
30) 1,2,4,5-Tetramethylben...	21.61	119	122497	1.445	ng	98
31) 1,2,3,4-Tetramethylben...	21.65	119	122710	1.519	ng	99
32) 1,2,3,5-Tetramethylben...	21.99	119	81276	1.032	ng	98
33) 1,2,3-Trichlorobenzene	22.57	180	42956	1.470	ng	99

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

Vial: 16
Operator: WA
Inst : GCMS-16

Quant Time: Mar 24 06:15:25 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



Data File : I:\MS13\DATA\2023_03\27\03272301.D
 Acq On : 27 Mar 2023 3:42
 Sample : CCV R13032723 5.0ng
 Misc : S35-01202301/S35-03242307 (4/23)

Vial: 1
 Operator: WA
 Inst : MS13

T₂ 3/27/23

Quant Time: Mar 27 04:46:59 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 IR	Bromochloromethane (IS1)	1.000	1.000	0.0	132	-0.03
2 T	Propene	1.250	1.371	-9.7	153	0.01
3 T	Dichlorodifluoromethane (CF	2.290	2.336	-2.0	135	-0.02
4 T	Chloromethane	1.651	1.915	-16.0	157	0.00
5 T	1,2-Dichloro-1,1,2,2-tetra	1.156	1.115	3.5	125	0.00
6 T	Vinyl Chloride	1.529	1.579	-3.3	137	0.00
7 T	1,3-Butadiene	1.158	1.234	-6.6	146	0.00
8 T	Bromomethane	1.025	1.085	-5.9	139	0.00
9 T	Chloroethane	0.723	0.801	-10.8	145	0.00
10 T	Ethanol	0.888	1.044	-17.6	166	-0.04
11 T	Acetonitrile	2.307	2.662	-15.4	163	-0.03
12 T	Acrolein	0.734	0.835	-13.8	153	-0.02
13 T	Acetone	0.758	0.851	-12.3	153	-0.03
14 T	Trichlorofluoromethane	2.061	2.106	-2.2	136	-0.01
15 T	2-Propanol (Isopropanol)	3.059	3.408	-11.4	156	-0.03
16 T	Acrylonitrile	1.445	1.652	-14.3	154	-0.03
17 T	1,1-Dichloroethene	1.058	1.116	-5.5	141	-0.01
18 T	2-Methyl-2-Propanol (tert-B	2.991	3.270	-9.3	147	-0.03
19 T	Methylene Chloride	1.111	1.170	-5.3	142	-0.03
20 T	3-Chloro-1-propene (Allyl C	1.774	2.026	-14.2	156	-0.02
21 T	Trichlorotrifluoroethane	1.084	1.095	-1.0	136	-0.01
22 T	Carbon Disulfide	4.398	4.437	-0.9	145	-0.02
23 T	trans-1,2-Dichloroethene	1.621	1.799	-11.0	147	-0.03
24 T	1,1-Dichloroethane	1.977	2.124	-7.4	145	-0.02
25 T	Methyl tert-Butyl Ether	3.465	3.643	-5.1	143	-0.02
26 T	Vinyl Acetate	0.205	0.218	-6.3	140	-0.03
27 T	2-Butanone (MEK)	0.673	0.758	-12.6	147	-0.03
28 T	cis-1,2-Dichloroethene	1.597	1.725	-8.0	147	-0.03
29 T	Diisopropyl Ether	0.835	0.910	-9.0	145	-0.02
30 T	Ethyl Acetate	0.442	0.535	-21.0	154	-0.03
31 T	n-Hexane	1.702	1.951	-14.6	151	-0.01
32 T	Chloroform	2.014	2.081	-3.3	141	-0.03
33 S	1,2-Dichloroethane-d4(SS1)	1.659	1.679	-1.2	133	-0.02
34 T	Tetrahydrofuran (THF)	0.691	0.917	-32.7#	185	-0.02
35 T	Ethyl tert-Butyl Ether	1.276	1.359	-6.5	141	-0.02
36 T	1,2-Dichloroethane	1.525	1.628	-6.8	140	-0.03
37 IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	132	-0.02
38 T	1,1,1-Trichloroethane	0.414	0.422	-1.9	136	-0.03
39 T	Isopropyl Acetate	0.000	0.000	0.0	133	-0.02
40 T	1-Butanol	0.000	0.000	0.0	204#	-0.01
41 T	Benzene	0.972	1.037	-6.7	144	-0.02
42 T	Carbon Tetrachloride	0.365	0.364	0.3	132	-0.02
43 T	Cyclohexane	0.356	0.380	-6.7	143	-0.01
44 T	tert-Amyl Methyl Ether	0.705	0.781	-10.8	145	-0.02
45 T	1,2-Dichloropropane	0.245	0.266	-8.6	147	-0.02
46 T	Bromodichloromethane	0.360	0.370	-2.8	138	-0.02
47 T	Trichloroethene	0.285	0.292	-2.5	138	-0.02
48 T	1,4-Dioxane	0.196	0.218	-11.2	153	-0.02
49 T	2,2,4-Trimethylpentane (Iso	0.989	1.080	-9.2	146	-0.01
50 T	Methyl Methacrylate	0.100	0.106	-6.0	141	-0.02
51 T	n-Heptane	0.235	0.253	-7.7	144	-0.02
52 T	cis-1,3-Dichloropropene	0.399	0.427	-7.0	142	-0.02
53 T	4-Methyl-2-pentanone	0.210	0.241	-14.8	153	-0.02
54 T	trans-1,3-Dichloropropene	0.386	0.416	-7.8	141	-0.01
55 T	1,1,2-Trichloroethane	0.252	0.257	-2.0	138	-0.02

Data File : I:\MS13\DATA\2023_03\27\03272301.D
 Acq On : 27 Mar 2023 3:42
 Sample : CCV R13032723 5.0ng
 Misc : S35-01202301/S35-03242307 (4/23)

Vial: 1
 Operator: WA
 Inst : MS13

Quant Time: Mar 27 04:46:59 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
56	IR Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	135	0.00
57	S Toluene-d8 (SS2)	6.428	6.256	2.7	133	-0.01
58	T Toluene	6.120	5.964	2.5	139	-0.01
59	T 2-Hexanone	2.973	3.377	-13.6	162	-0.01
60	T Dibromochloromethane	1.796	1.769	1.5	135	-0.02
61	T 1,2-Dibromoethane	1.704	1.719	-0.9	140	-0.01
62	T n-Butyl Acetate	3.379	3.828	-13.3	161	-0.01
63	T n-Octane	1.203	1.254	-4.2	148	0.00
64	T Tetrachloroethene	1.862	1.773	4.8	132	0.00
65	T Chlorobenzene	4.037	3.953	2.1	139	0.00
66	T Ethylbenzene	7.301	6.760	7.4	137	0.00
67	T m- & p-Xylenes	5.876	5.481	6.7	136	0.00
68	T Bromoform	1.623	1.551	4.4	130	0.00
69	T Styrene	4.040	4.018	0.5	136	0.00
70	T o-Xylene	5.619	5.380	4.3	135	0.00
71	T n-Nonane	2.719	2.995	-10.2	152	0.00
72	T 1,1,2,2-Tetrachloroethane	2.427	2.513	-3.5	140	0.00
73	S Bromofluorobenzene (SS3)	2.354	2.077	11.8	119	0.00
74	T Cumene	6.833	6.616	3.2	135	0.00
75	T alpha-Pinene	3.153	3.247	-3.0	138	0.00
76	T n-Propylbenzene	8.192	8.131	0.7	139	0.00
77	T 3-Ethyltoluene	0.000	0.000	0.0	0#	-17.35#
78	T 4-Ethyltoluene	6.555	6.414	2.2	136	0.00
79	T 1,3,5-Trimethylbenzene	5.797	5.509	5.0	133	0.00
80	T alpha-Methylstyrene	0.000	0.000	0.0	0#	-17.19#
81	T 2-Ethyltoluene	0.000	0.000	0.0	0#	-17.35#
82	T 1,2,4-Trimethylbenzene	5.716	5.630	1.5	135	0.00
83	T n-Decane	0.000	0.000	0.0	162	0.00
84	T Benzyl Chloride	4.625	4.827	-4.4	139	0.00
85	T 1,3-Dichlorobenzene	3.457	3.265	5.6	132	0.00
86	T 1,4-Dichlorobenzene	3.581	3.283	8.3	134	0.00
87	T sec-Butylbenzene	7.540	7.358	2.4	135	0.00
88	T 4-Isopropyltoluene (p-Cymen	6.627	6.404	3.4	134	0.00
89	T 1,2,3-Trimethylbenzene	0.000	0.000	0.0	0#	-17.35#
90	T 1,2-Dichlorobenzene	3.422	3.177	7.2	130	0.00
91	T d-Limonene	1.933	2.053	-6.2	141	0.00
92	T 1,2-Dibromo-3-Chloropropane	1.296	1.248	3.7	130	0.00
93	T n-Undecane	0.000	0.000	0.0	0#	-0.03
94	T 1,2,4-Trichlorobenzene	2.574	2.338	9.2	126	0.00
95	T Naphthalene	6.196	5.705	7.9	133	0.00
96	T n-Dodecane	0.000	0.000	0.0	157	0.00
97	T Hexachlorobutadiene	1.995	1.637	17.9	117	0.00
98	T Cyclohexanone	0.000	0.000	0.0	86	0.01
99	T tert-Butylbenzene	5.366	5.183	3.4	129	0.00
100	T n-Butylbenzene	5.862	5.855	0.1	138	0.00
101	T 1,1,1,2-Tetrachloroethane	1.522	1.471	3.4	132	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data File : I:\MS13\DATA\2023_03\27\03272301.D
 Acq On : 27 Mar 2023 3:42
 Sample : CCV R13032723 5.0ng
 Misc : S35-01202301/S35-03242307 (4/23)

Vial: 1
 Operator: WA
 Inst : MS13

T2 3/27/23

Quant Time: Mar 27 04:46:59 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.33	130	259497	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	9.38	114	1140830	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	207206	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.09	65	435738	12.653	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	101.20%
57) Toluene-d8 (SS2)	12.48	98	1296232	12.164	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	97.28%
73) Bromofluorobenzene (SS3)	16.85	174	430283	11.025	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	88.16%

Target Compounds

						Qvalue
2) Propene	3.38	42	149413	5.757	ng	98
3) Dichlorodifluoromethan...	3.46	85	257011	5.407	ng	100
4) Chloromethane	3.59	50	204734	5.973	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	3.71	135	120335	5.015	ng	99
6) Vinyl Chloride	3.78	62	165491	5.214	ng	100
7) 1,3-Butadiene	3.90	54	135750	5.645	ng	98
8) Bromomethane	4.11	94	114851	5.400	ng	98
9) Chloroethane	4.25	64	85677	5.707	ng	99
10) Ethanol	4.40	45	373954	20.291	ng	99
11) Acetonitrile	4.54	41	251442	5.251	ng	100
12) Acrolein	4.63	56	167265	10.974	ng	99
13) Acetone	4.73	58	465677	29.606	ng	97
14) Trichlorofluoromethane	4.85	101	227372	5.314	ng	99
15) 2-Propanol (Isopropanol)	4.95	45	725113	11.419	ng	99
16) Acrylonitrile	5.10	53	351504	11.715	ng	99
17) 1,1-Dichloroethene	5.35	96	125058	5.691	ng	94
18) 2-Methyl-2-Propanol (t...	5.42	59	716214	11.534	ng	99
19) Methylene Chloride	5.45	84	128726	5.583	ng	91
20) 3-Chloro-1-propene (Al...	5.54	41	222938	6.055	ng	95
21) Trichlorotrifluoroethane	5.67	151	122728	5.455	ng	97
22) Carbon Disulfide	5.69	76	980908	10.743	ng	99
23) trans-1,2-Dichloroethene	6.23	61	201697	5.993	ng	97
24) 1,1-Dichloroethane	6.42	63	235915	5.749	ng	99
25) Methyl tert-Butyl Ether	6.46	73	404576	5.625	ng	97
26) Vinyl Acetate	6.54	86	63330	14.890	ng	# 79
27) 2-Butanone (MEK)	6.75	72	164487	11.780	ng	# 89
28) cis-1,2-Dichloroethene	7.17	61	189834	5.727	ng	97
29) Diisopropyl Ether	7.36	87	200240	11.546	ng	# 78
30) Ethyl Acetate	7.37	61	234281	25.516	ng	94
31) n-Hexane	7.38	57	212677	6.018	ng	97
32) Chloroform	7.45	83	228950	5.476	ng	100
34) Tetrahydrofuran (THF)	7.83	72	194087	13.534	ng	91
35) Ethyl tert-Butyl Ether	7.90	87	299050	11.289	ng	94
36) 1,2-Dichloroethane	8.20	62	182501	5.763	ng	99
38) 1,1,1-Trichloroethane	8.47	97	202221	5.355	ng	98
41) Benzene	8.98	78	506177	5.703	ng	100
42) Carbon Tetrachloride	9.14	117	172629	5.182	ng	98
43) Cyclohexane	9.29	84	364505	11.203	ng	95
44) tert-Amyl Methyl Ether	9.66	73	755235	11.734	ng	98
45) 1,2-Dichloropropane	9.93	63	127329	5.687	ng	98
46) Bromodichloromethane	10.14	83	180550	5.502	ng	98
47) Trichloroethene	10.21	130	139729	5.374	ng	99
48) 1,4-Dioxane	10.18	88	105485	5.896	ng	96
49) 2,2,4-Trimethylpentane...	10.30	57	532173	5.897	ng	100
50) Methyl Methacrylate	10.47	100	102908	11.276	ng	91
51) n-Heptane	10.63	71	122442	5.701	ng	97
52) cis-1,3-Dichloropropene	11.32	75	210642	5.789	ng	100

Data File : I:\MS13\DATA\2023_03\27\03272301.D
 Acq On : 27 Mar 2023 3:42
 Sample : CCV R13032723 5.0ng
 Misc : S35-01202301/S35-03242307 (4/23)

Vial: 1
 Operator: WA
 Inst : MS13

Quant Time: Mar 27 04:46:59 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

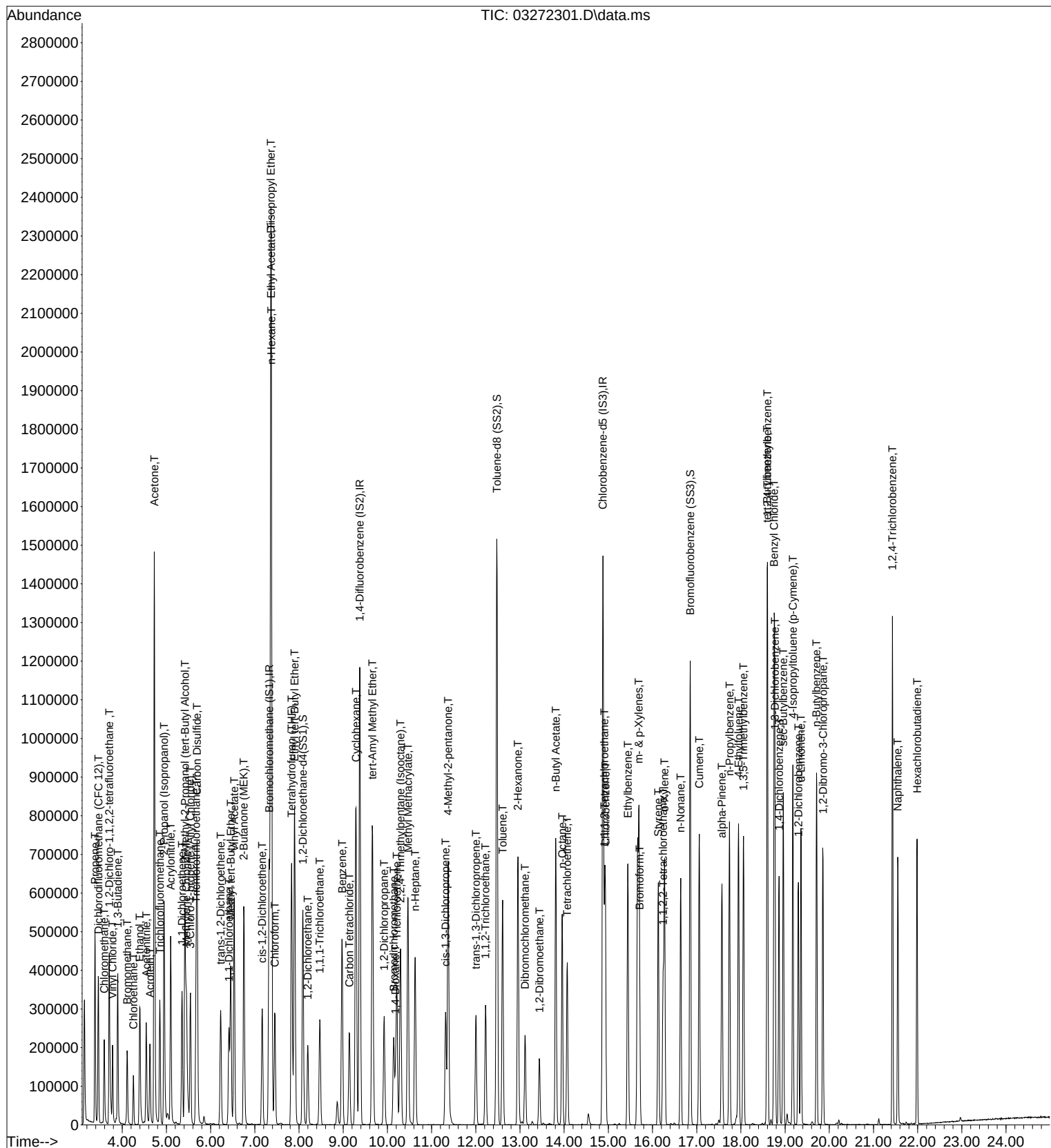
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) 4-Methyl-2-pentanone	11.37	58	236662	12.369	ng	94
54) trans-1,3-Dichloropropene	12.00	75	193526	5.491	ng	100
55) 1,1,2-Trichloroethane	12.22	97	124546	5.422	ng	99
58) Toluene	12.61	91	519058	5.117	ng	99
59) 2-Hexanone	12.96	43	593345	12.041	ng	98
60) Dibromochloromethane	13.11	129	158366	5.319	ng	99
61) 1,2-Dibromoethane	13.44	107	148159	5.246	ng	98
62) n-Butyl Acetate	13.81	43	650327	11.610	ng	98
63) n-Octane	13.96	57	111176	5.573	ng	96
64) Tetrachloroethene	14.07	166	155725	5.046	ng	99
65) Chlorobenzene	14.94	112	347320	5.191	ng	100
66) Ethylbenzene	15.44	91	588305	4.861	ng	99
67) m- & p-Xylenes	15.69	91	953912	9.794	ng	100
68) Bromoform	15.71	173	137554	5.114	ng	99
69) Styrene	16.13	104	353005	5.271	ng	100
70) o-Xylene	16.27	91	472646	5.075	ng	100
71) n-Nonane	16.64	43	263140	5.839	ng	95
72) 1,1,2,2-Tetrachloroethane	16.24	83	220751	5.487	ng	100
74) Cumene	17.06	105	586738	5.180	ng	100
75) alpha-Pinene	17.57	93	293301	5.612	ng	100
76) n-Propylbenzene	17.74	91	721053	5.310	ng	99
78) 4-Ethyltoluene	17.95	105	579436	5.332	ng	99
79) 1,3,5-Trimethylbenzene	18.06	105	484031	5.037	ng	100
82) 1,2,4-Trimethylbenzene	18.60	105	489946	5.171	ng	99
84) Benzyl Chloride	18.75	91	848149	11.063	ng	100
85) 1,3-Dichlorobenzene	18.77	146	286885	5.006	ng	100
86) 1,4-Dichlorobenzene	18.86	146	288405	4.859	ng	100
87) sec-Butylbenzene	18.96	105	646438	5.172	ng	99
88) 4-Isopropyltoluene (p-...	19.18	119	562659	5.122	ng	99
90) 1,2-Dichlorobenzene	19.30	146	281719	4.967	ng	100
91) d-Limonene	19.36	68	182082	5.683	ng	97
92) 1,2-Dibromo-3-Chloropr...	19.86	157	217240	10.114	ng	94
94) 1,2,4-Trichlorobenzene	21.43	180	404921	9.492	ng	100
95) Naphthalene	21.55	128	520146	5.064	ng	100
97) Hexachlorobutadiene	21.99	225	143844	4.349	ng	99
99) tert-Butylbenzene	18.59	119	455320	5.119	ng	100
100) n-Butylbenzene	19.71	91	519265	5.344	ng	99
101) 1,1,1,2-Tetrachloroethane	14.91	131	129239	5.124	ng	100

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

Data File : I:\MS13\DATA\2023_03\27\03272301.D
Acq On : 27 Mar 2023 3:42
Sample : CCV R13032723 5.0ng
Misc : S35-01202301/S35-03242307 (4/23)

Vial: 1
Operator: WA
Inst : MS13

Quant Time: Mar 27 04:46:59 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\27\03272303.D
 Acq On : 27 Mar 2023 4:54
 Sample : CCV C13032723 5.0ng
 Misc : S35-01202301/S35-02282306 (3/30)

Vial: 16
 Operator: WA
 Inst : MS13

Tz 3/27/23

Quant Time: Mar 27 08:58:46 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 IR	Bromochloromethane (C_1)	1.000	1.000	0.0	119	0.00
2 T	Chloropentafluoroethane	1.314	1.360	-3.5	123	0.02
3 T	1,1,1,2-Tetrafluoroethane (	1.009	1.040	-3.1	125	0.02
4 T	1,1-Difluoroethane	0.857	0.958	-11.8	133	0.00
5 T	Chlorodifluoromethane (CFC	0.305	0.316	-3.6	124	0.02
6 T	1-Chloro-1,1-Difluoroethane	2.025	2.120	-4.7	125	0.01
7 T	Dichlorofluoromethane (CFC	2.112	2.339	-10.7	133	0.02
8 T	Vinylbromide	0.971	0.986	-1.5	120	0.00
9 T	2,2-Dichloro-1,1,1-trifluor	1.467	1.540	-5.0	126	0.02
10 T	2-Methylbutane	0.914	1.060	-16.0	136	0.00
11 T	Methyl Acetate	2.060	2.588	-25.6	151	0.00
12 T	2-Methylpentane	0.873	0.963	-10.3	133	0.00
13 T	2,2-Dichloropropane	1.708	1.775	-3.9	125	0.00
14 T	1,1-Dichloropropene	1.409	1.517	-7.7	129	-0.01
15 T	Thiophene	2.179	2.319	-6.4	126	-0.01
16 IR	1,4-Difluorobenzene (C_2)	1.000	1.000	0.0	124	-0.01
17 T	2,3-Dimethylpentane	0.368	0.421	-14.4	142	-0.01
18 T	Dibromomethane	0.222	0.198	10.8	110	-0.01
19 IR	Chlorobenzene-d5 (C_3)	1.000	1.000	0.0	140	0.00
20 T	Methyl Cyclohexane	2.081	2.006	3.6	136	-0.01
21 T	1,3-Dichloropropane	2.220	1.999	10.0	129	0.00
22 T	1,1,1,2-Tetrachloroethane	1.615	1.323	18.1	115	0.00
23 T	1-Chlorohexane	2.189	1.965	10.2	125	0.00
24 T	1,2,3-Trichloropropane	2.329	2.054	11.8	122	0.00
25 T	Bromobenzene	2.761	2.419	12.4	124	0.00
26 T	2-Chlorotoluene	4.995	4.339	13.1	122	0.00
27 T	4-Chlorotoluene	5.315	4.515	15.1	119	0.00
28 T	Indane	6.294	5.336	15.2	117	0.00
29 T	Indene	5.474	4.464	18.5	112	0.00
30 T	1,2,4,5-Tetramethylbenzene	6.280	5.306	15.5	114	0.00
31 T	1,2,3,4-Tetramethylbenzene	6.446	5.349	17.0	113	0.00
32 T	1,2,3,5-Tetramethylbenzene	6.068	5.012	17.4	110	0.00
33 T	1,2,3-Trichlorobenzene	2.689	1.834	31.8#	88	0.00

(#)= Out of Range

SPCC's out = 0 CCC's out = 0

Data File : I:\MS13\DATA\2023_03\27\03272303.D
 Acq On : 27 Mar 2023 4:54
 Sample : CCV C13032723 5.0ng
 Misc : S35-01202301/S35-02282306 (3/30)

Vial: 16
 Operator: WA
 Inst : MS13

T2 3/27/23

Quant Time: Mar 27 08:58:46 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.32	130	236406	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	9.37	114	1035143	12.500	ng	-0.01
19) Chlorobenzene-d5 (C_3)	14.88	54	186981	12.500	ng	0.00

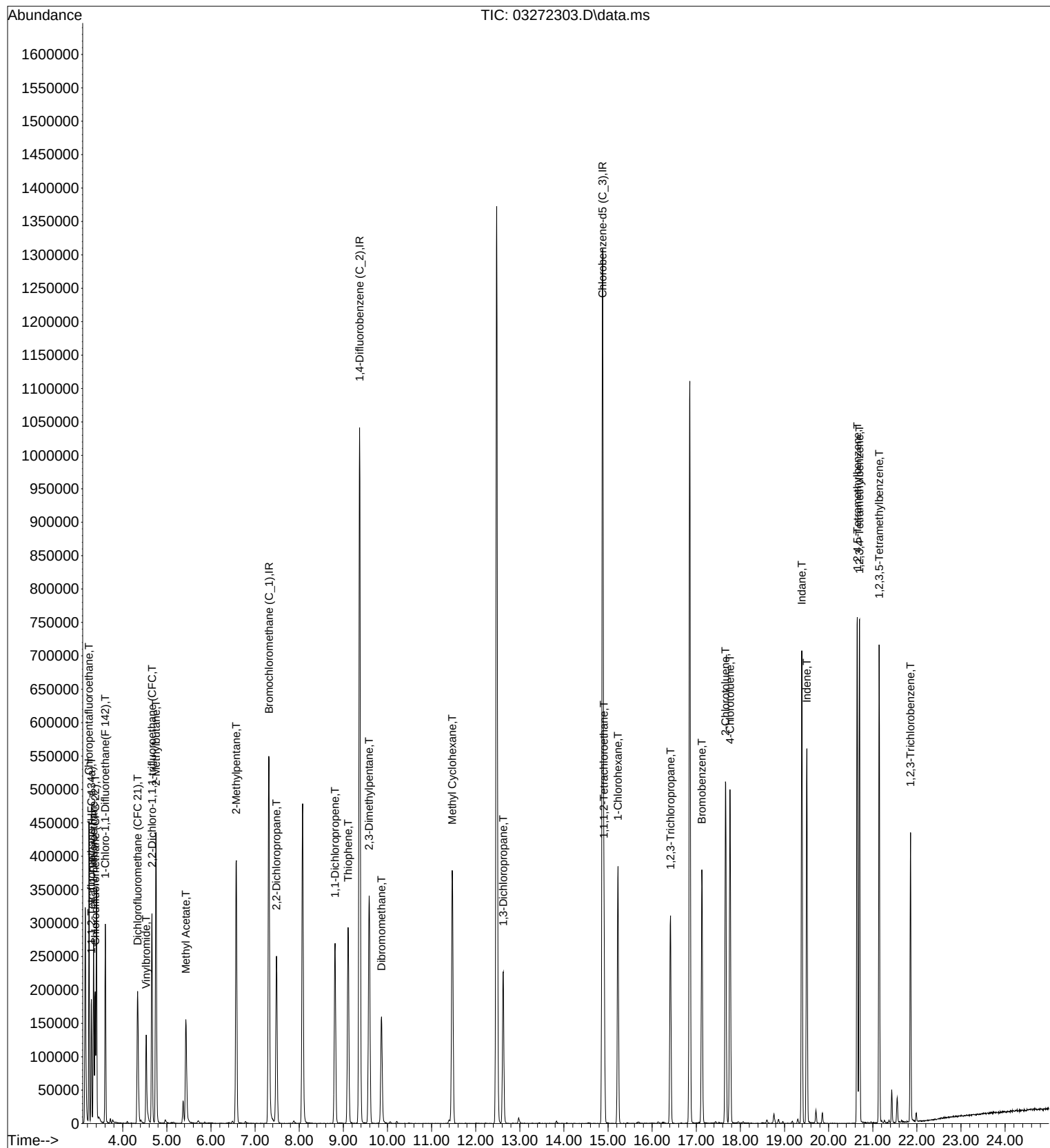
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.23	85	133753	5.383	ng	96
3) 1,1,1,2-Tetrafluoroeth...	3.29	83	100264	5.256	ng	93
4) 1,1-Difluoroethane	3.34	65	96057	5.924	ng	100
5) Chlorodifluoromethane ...	3.38	67	31656	5.489	ng	94
6) 1-Chloro-1,1-Difluoroe...	3.60	65	208485	5.444	ng	99
7) Dichlorofluoromethane ...	4.34	67	223432	5.593	ng	98
8) Vinylbromide	4.53	108	92343	5.030	ng	99
9) 2,2-Dichloro-1,1,1-tri...	4.66	83	152950	5.513	ng	99
10) 2-Methylbutane	4.75	57	102245	5.913	ng	89
11) Methyl Acetate	5.43	43	237425	6.094	ng	94
12) 2-Methylpentane	6.58	71	91105	5.515	ng	79
13) 2,2-Dichloropropane	7.49	77	166206	5.145	ng	99
14) 1,1-Dichloropropene	8.81	75	149215	5.598	ng	93
15) Thiophene	9.11	84	221503	5.374	ng	94
17) 2,3-Dimethylpentane	9.59	56	181207	5.942	ng	95
18) Dibromomethane	9.86	174	88342	4.807	ng	93
20) Methyl Cyclohexane	11.47	55	160544	5.158	ng	92
21) 1,3-Dichloropropane	12.62	76	156980	4.726	ng	93
22) 1,1,1,2-Tetrachloroethane	14.91	131	87065	3.605	ng	99
23) 1-Chlorohexane	15.23	91	151389	4.623	ng	93
24) 1,2,3-Trichloropropane	16.42	75	161325	4.631	ng	96
25) Bromobenzene	17.13	77	189968	4.600	ng	90
26) 2-Chlorotoluene	17.66	91	344026	4.605	ng	98
27) 4-Chlorotoluene	17.76	91	341030	4.289	ng	97
28) Indane	19.39	117	391147	4.155	ng	100
29) Indene	19.51	115	310515	3.792	ng	100
30) 1,2,4,5-Tetramethylben...	20.65	119	396847	4.224	ng	100
31) 1,2,3,4-Tetramethylben...	20.70	119	404048	4.191	ng	99
32) 1,2,3,5-Tetramethylben...	21.14	119	371092	4.089	ng	99
33) 1,2,3-Trichlorobenzene	21.86	180	137138	3.410	ng	100

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

Data File : I:\MS13\DATA\2023_03\27\03272303.D
Acq On : 27 Mar 2023 4:54
Sample : CCV C13032723 5.0ng
Misc : S35-01202301/S35-02282306 (3/30)

Vial: 16
Operator: WA
Inst : MS13

Quant Time: Mar 27 08:58:46 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS16\DATA\2023_03\27\03272301.D
 Acq On : 27 Mar 2023 4:21
 Sample : CCV R1603273_5ng
 Misc : S35-01312301/S37-03012302 (3/31)

Vial: 2
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 04:44:26 2023
 Quant Method : I:\MS16\METHODS\R16122022.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Dec 21 03:06:38 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15B.M

107 3/27/23

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 IR	Bromochloromethane (IS1)	1.000	1.000	0.0	120	0.00
2 T	Propene	1.686	1.760	-4.4	138	-0.02
3 T	Dichlorodifluoromethane (CF	1.868	2.070	-10.8	126	-0.01
4 T	Chloromethane	1.747	1.206	31.0#	74	-0.01
5 T	1,2-Dichloro-1,1,2,2-tetra	1.043	1.134	-8.7	121	-0.01
6 T	Vinyl Chloride	1.622	1.755	-8.2	117	-0.02
7 T	1,3-Butadiene	1.359	1.436	-5.7	112	-0.02
8 T	Bromomethane	0.815	0.895	-9.8	120	-0.01
9 T	Chloroethane	0.780	0.779	0.1	109	-0.02
10 T	Ethanol	1.203	0.991	17.6	98	0.00
11 T	Acetonitrile	3.013	2.616	13.2	107	-0.01
12 T	Acrolein	0.852	0.777	8.8	106	-0.01
13 T	Acetone	0.920	0.844	8.3	110	-0.01
14 T	Trichlorofluoromethane	1.724	1.840	-6.7	120	-0.02
15 T	2-Propanol (Isopropanol)	3.204	2.549	20.4	83	-0.05
16 T	Acrylonitrile	1.716	1.567	8.7	102	-0.01
17 T	1,1-Dichloroethene	0.992	0.977	1.5	114	-0.02
18 T	2-Methyl-2-Propanol (tert-B	2.284	1.965	14.0	87	0.00
19 T	Methylene Chloride	1.017	1.042	-2.5	121	-0.01
20 T	3-Chloro-1-propene (Allyl C	1.870	1.677	10.3	104	-0.02
21 T	Trichlorotrifluoroethane	0.859	0.806	6.2	105	0.00
22 T	Carbon Disulfide	3.625	3.656	-0.9	118	-0.02
23 T	trans-1,2-Dichloroethene	1.533	1.499	2.2	108	-0.01
24 T	1,1-Dichloroethane	1.863	1.834	1.6	111	-0.01
25 T	Methyl tert-Butyl Ether	2.701	2.898	-7.3	120	-0.01
26 T	Vinyl Acetate	0.206	0.210	-1.9	113	-0.01
27 T	2-Butanone (MEK)	0.667	0.747	-12.0	115	0.00
28 T	cis-1,2-Dichloroethene	1.532	1.467	4.2	107	-0.01
29 T	Diisopropyl Ether	0.949	1.028	-8.3	117	0.00
30 T	Ethyl Acetate	0.436	0.490	-12.4	112	0.00
31 T	n-Hexane	2.183	2.081	4.7	108	0.00
32 T	Chloroform	1.668	1.804	-8.2	121	0.00
33 S	1,2-Dichloroethane-d4(SS1)	1.662	1.793	-7.9	131	0.00
34 T	Tetrahydrofuran (THF)	0.684	0.683	0.1	115	0.00
35 T	Ethyl tert-Butyl Ether	0.994	1.118	-12.5	142	0.00
36 T	1,2-Dichloroethane	1.354	1.458	-7.7	119	0.00
37 IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	123	0.00
38 T	1,1,1-Trichloroethane	0.338	0.333	1.5	112	0.00
39 T	Isopropyl Acetate	0.000	0.000	0.0	0#	-13.67#
40 T	1-Butanol	0.000	0.000	0.0	0#	-12.65#
41 T	Benzene	0.880	0.867	1.5	115	0.00
42 T	Carbon Tetrachloride	0.286	0.290	-1.4	114	0.00
43 T	Cyclohexane	0.372	0.365	1.9	114	0.00
44 T	tert-Amyl Methyl Ether	0.442	0.530	-19.9	163	0.00
45 T	1,2-Dichloropropane	0.247	0.238	3.6	113	0.00
46 T	Bromodichloromethane	0.290	0.305	-5.2	120	0.00
47 T	Trichloroethene	0.239	0.237	0.8	112	0.00
48 T	1,4-Dioxane	0.166	0.177	-6.6	117	0.00
49 T	2,2,4-Trimethylpentane (Iso	1.188	1.052	11.4	104	0.00
50 T	Methyl Methacrylate	0.099	0.097	2.0	112	0.00
51 T	n-Heptane	0.258	0.257	0.4	114	0.00
52 T	cis-1,3-Dichloropropene	0.325	0.344	-5.8	111	0.00
53 T	4-Methyl-2-pentanone	0.204	0.220	-7.8	112	0.00
54 T	trans-1,3-Dichloropropene	0.312	0.312	0.0	114	0.00
55 T	1,1,2-Trichloroethane	0.214	0.211	1.4	114	0.00

Data File : I:\MS16\DATA\2023_03\27\03272301.D
 Acq On : 27 Mar 2023 4:21
 Sample : CCV R1603273_5ng
 Misc : S35-01312301/S37-03012302 (3/31)

Vial: 2
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 04:44:26 2023
 Quant Method : I:\MS16\METHODS\R16122022.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Dec 21 03:06:38 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15B.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
56	IR Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	132	0.00
57	S Toluene-d8 (SS2)	5.472	5.367	1.9	127	0.00
58	T Toluene	4.793	4.510	5.9	115	0.00
59	T 2-Hexanone	2.532	2.750	-8.6	117	0.00
60	T Dibromochloromethane	1.200	1.150	4.2	112	0.00
61	T 1,2-Dibromoethane	1.147	1.172	-2.2	117	0.00
62	T n-Butyl Acetate	2.890	3.056	-5.7	124	0.00
63	T n-Octane	1.227	1.046	14.8	103	0.00
64	T Tetrachloroethene	1.220	1.136	6.9	112	0.00
65	T Chlorobenzene	3.168	2.954	6.8	114	0.00
66	T Ethylbenzene	5.413	5.172	4.5	115	0.00
67	T m- & p-Xylenes	4.281	3.986	6.9	113	0.00
68	T Bromoform	1.023	0.908	11.2	112	0.00
69	T Styrene	3.012	3.009	0.1	112	0.00
70	T o-Xylene	4.210	4.046	3.9	116	0.00
71	T n-Nonane	3.005	2.689	10.5	107	0.00
72	T 1,1,2,2-Tetrachloroethane	1.847	1.880	-1.8	121	0.00
73	S Bromofluorobenzene (SS3)	1.707	1.624	4.9	125	0.00
74	T Cumene	5.308	5.138	3.2	115	0.00
75	T alpha-Pinene	1.363	1.578	-15.8	237#	0.00
76	T n-Propylbenzene	6.462	6.348	1.8	116	0.00
77	T 3-Ethyltoluene	0.000	0.000	0.0	0#	-0.01
78	T 4-Ethyltoluene	5.037	5.059	-0.4	115	0.00
79	T 1,3,5-Trimethylbenzene	4.512	4.200	6.9	113	0.00
80	T alpha-Methylstyrene	0.000	0.000	0.0	0#	0.00
81	T 2-Ethyltoluene	0.000	0.000	0.0	0#	-0.01
82	T 1,2,4-Trimethylbenzene	4.314	4.414	-2.3	116	0.00
83	T n-Decane	0.000	0.000	0.0	0#	0.00
84	T Benzyl Chloride	2.623	2.373	9.5	118	0.00
85	T 1,3-Dichlorobenzene	2.389	2.388	0.0	111	0.00
86	T 1,4-Dichlorobenzene	2.486	2.378	4.3	110	0.00
87	T sec-Butylbenzene	5.880	5.928	-0.8	117	0.00
88	T 4-Isopropyltoluene (p-Cymen	6.332	5.504	13.1	103	0.00
89	T 1,2,3-Trimethylbenzene	0.000	0.000	0.0	0#	-0.01
90	T 1,2-Dichlorobenzene	2.352	2.338	0.6	112	0.00
91	T d-Limonene	1.232	1.339	-8.7	167	0.00
92	T 1,2-Dibromo-3-Chloropropane	0.883	0.878	0.6	111	0.00
93	T n-Undecane	0.000	0.000	0.0	0#	0.00
94	T 1,2,4-Trichlorobenzene	1.612	1.713	-6.3	116	0.00
95	T Naphthalene	5.292	5.228	1.2	116	0.00
96	T n-Dodecane	0.000	0.000	0.0	0#	-22.59#
97	T Hexachlorobutadiene	1.102	1.076	2.4	121	0.00
98	T Cyclohexanone	0.000	0.000	0.0	0#	-0.01
99	T tert-Butylbenzene	4.446	4.390	1.3	112	0.00
100	T n-Butylbenzene	4.623	4.906	-6.1	121	0.00
101	T 1,1,1,2-Tetrachloroethane	1.111	1.068	3.9	116	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data File : I:\MS16\DATA\2023_03\27\03272301.D

Vial: 2

Acq On : 27 Mar 2023 4:21

Operator: WA

Sample : CCV R1603273_5ng

Inst : GCMS-16

Misc : S35-01312301/S37-03012302 (3/31)

107A 3/27/23

Quant Time: Mar 27 04:44:26 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:TO15B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.30	130	217846	12.500	ng	0.00
37) 1,4-Difluorobenzene (IS2)	13.42	114	1009472	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	17.72	54	213618	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.15	65	390692	13.486	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	107.92%
57) Toluene-d8 (SS2)	15.87	98	1146486	12.259	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	98.08%
73) Bromofluorobenzene (SS3)	19.10	174	347012	11.897	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	95.20%

Target Compounds

						Qvalue
2) Propene	4.17	42	161000	5.479	ng	97
3) Dichlorodifluoromethan...	4.34	85	191245	5.873	ng	100
4) Chloromethane	4.63	50	108239	3.554	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	4.89	135	102743	5.651	ng	99
6) Vinyl Chloride	5.05	62	154457	5.466	ng	99
7) 1,3-Butadiene	5.32	54	132602	5.601	ng	96
8) Bromomethane	5.76	94	79511	5.596	ng	99
9) Chloroethane	6.10	64	69902	5.139	ng	98
10) Ethanol	6.47	45	297837	14.207	ng	99
11) Acetonitrile	6.73	41	207427	3.950	ng	99
12) Acrolein	6.92	56	130664	8.801	ng	99
13) Acetone	7.13	58	387681	24.180	ng	88
14) Trichlorofluoromethane	7.38	101	166727	5.550	ng	100
15) 2-Propanol (Isopropanol)	7.63	45	455394	8.157	ng	94
16) Acrylonitrile	7.89	53	279920	9.357	ng	99
17) 1,1-Dichloroethene	8.35	96	91989	5.322	ng	99
18) 2-Methyl-2-Propanol (t...	8.52	59	361332	9.078	ng	97
19) Methylene Chloride	8.57	84	96267	5.433	ng	91
20) 3-Chloro-1-propene (Al...	8.73	41	154883	4.753	ng	96
21) Trichlorotrifluoroethane	9.00	151	75864	5.070	ng	93
22) Carbon Disulfide	8.83	76	678555	10.742	ng	100
23) trans-1,2-Dichloroethene	9.84	61	141057	5.280	ng	95
24) 1,1-Dichloroethane	10.10	63	171015	5.268	ng	100
25) Methyl tert-Butyl Ether	10.21	73	270189	5.739	ng	95
26) Vinyl Acetate	10.36	86	51341	14.330	ng	# 92
27) 2-Butanone (MEK)	10.60	72	136008	11.701	ng	94
28) cis-1,2-Dichloroethene	11.11	61	135521	5.077	ng	95
29) Diisopropyl Ether	11.42	87	189941	11.481	ng	# 91
30) Ethyl Acetate	11.42	61	180040	23.682	ng	99
31) n-Hexane	11.41	57	190432	5.005	ng	98
32) Chloroform	11.46	83	166652	5.731	ng	99
34) Tetrahydrofuran (THF)	11.87	72	121423	10.185	ng	95
35) Ethyl tert-Butyl Ether	12.01	87	206568	11.928	ng	92
36) 1,2-Dichloroethane	12.26	62	137227	5.813	ng	100
38) 1,1,1-Trichloroethane	12.54	97	141157	5.168	ng	100
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.02	78	374806	5.273	ng	98
42) Carbon Tetrachloride	13.18	117	121864	5.273	ng	99
43) Cyclohexane	13.31	84	309519	10.309	ng	91
44) tert-Amyl Methyl Ether	13.66	73	453660	12.717	ng	99
45) 1,2-Dichloropropane	13.87	63	100824	5.059	ng	100
46) Bromodichloromethane	14.06	83	131963	5.635	ng	99
47) Trichloroethene	14.12	130	100566	5.202	ng	99
48) 1,4-Dioxane	14.09	88	75673	5.654	ng	93
49) 2,2,4-Trimethylpentane...	14.18	57	458670	4.783	ng	91
50) Methyl Methacrylate	14.33	100	82822	10.333	ng	93

Data File : I:\MS16\DATA\2023_03\27\03272301.D
 Acq On : 27 Mar 2023 4:21
 Sample : CCV R1603273_5ng
 Misc : S35-01312301/S37-03012302 (3/31)

Vial: 2
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 04:44:26 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:TO15B.M

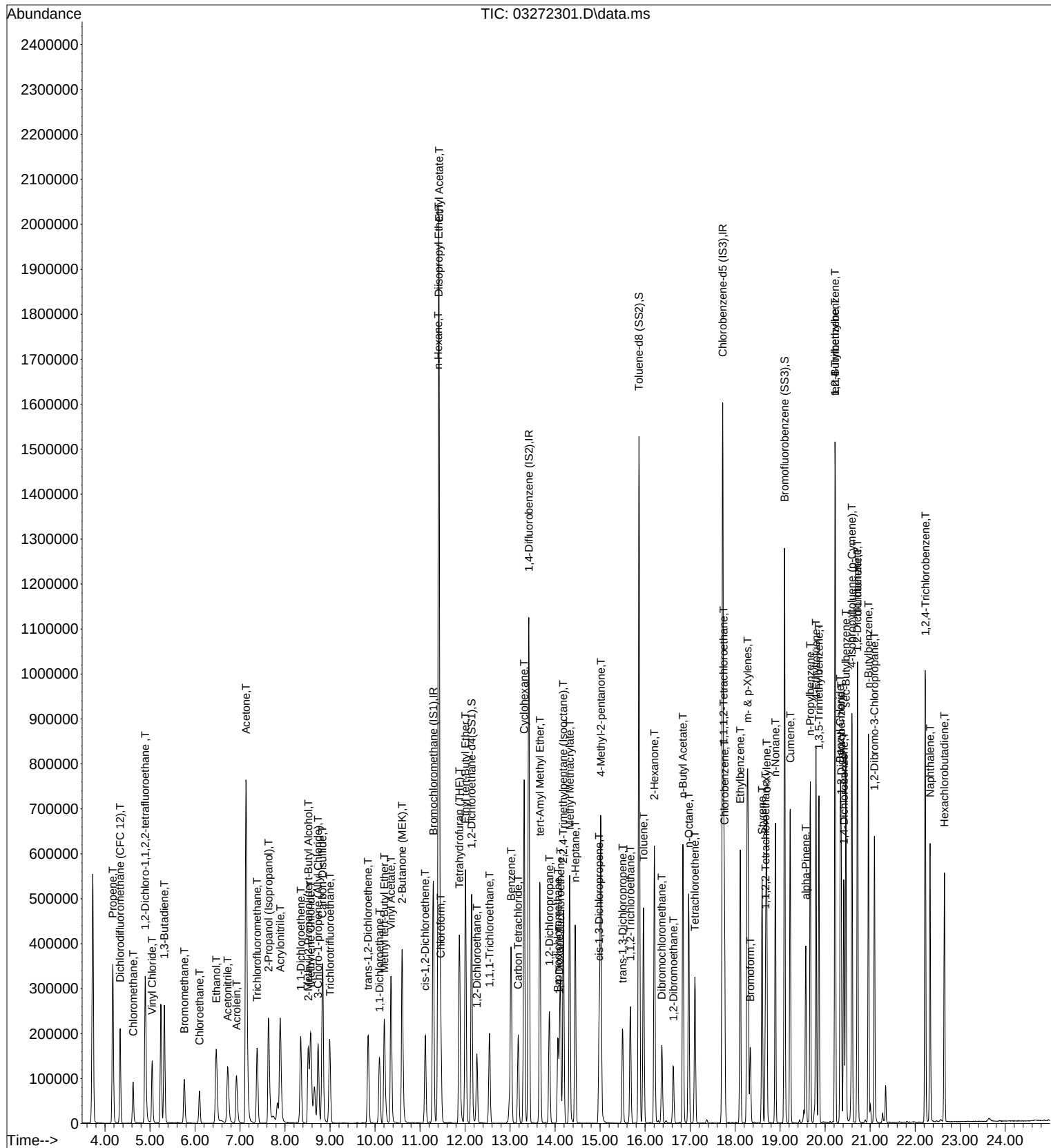
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.45	71	110177	5.283	ng	93
52) cis-1,3-Dichloropropene	14.98	75	150089	5.711	ng	100
53) 4-Methyl-2-pentanone	15.02	58	190716	11.576	ng	91
54) trans-1,3-Dichloropropene	15.50	75	128681	5.100	ng	100
55) 1,1,2-Trichloroethane	15.67	97	90424	5.242	ng	94
58) Toluene	15.96	91	404622	4.940	ng	98
59) 2-Hexanone	16.21	43	498188	11.515	ng	95
60) Dibromochloromethane	16.37	129	106094	5.173	ng	99
61) 1,2-Dibromoethane	16.63	107	104158	5.314	ng	99
62) n-Butyl Acetate	16.84	43	535395	10.840	ng	96
63) n-Octane	16.97	57	95653	4.562	ng	93
64) Tetrachloroethene	17.11	166	102906	4.935	ng	99
65) Chlorobenzene	17.76	112	267591	4.943	ng	100
66) Ethylbenzene	18.11	91	464063	5.017	ng	98
67) m- & p-Xylenes	18.28	91	715334	9.779	ng	100
68) Bromoform	18.34	173	82978	4.747	ng	100
69) Styrene	18.60	104	272520	5.294	ng	98
70) o-Xylene	18.70	91	366438	5.093	ng	99
71) n-Nonane	18.90	43	243544	4.743	ng	94
72) 1,1,2,2-Tetrachloroethane	18.68	83	170322	5.395	ng	99
74) Cumene	19.22	105	469743	5.178	ng	98
75) alpha-Pinene	19.57	93	146939	6.309	ng	100
76) n-Propylbenzene	19.67	91	580433	5.256	ng	97
77) 3-Ethyltoluene	20.22	105	395988	No Calib	#	
78) 4-Ethyltoluene	19.80	105	471196	5.474	ng	97
79) 1,3,5-Trimethylbenzene	19.86	105	380366	4.933	ng	96
80) alpha-Methylstyrene	20.46	118	1768	No Calib	#	
81) 2-Ethyltoluene	20.22	105	395988	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.22	105	395988	5.371	ng	97
83) n-Decane	20.22	58	19480	No Calib		
84) Benzyl Chloride	20.34	91	429875	9.590	ng	97
85) 1,3-Dichlorobenzene	20.36	146	216257	5.297	ng	99
86) 1,4-Dichlorobenzene	20.42	146	215349	5.068	ng	99
87) sec-Butylbenzene	20.46	105	536956	5.344	ng	98
88) 4-Isopropyltoluene (p-...	20.59	119	498539	4.607	ng	99
89) 1,2,3-Trimethylbenzene	20.22	105	395988	No Calib	#	
90) 1,2-Dichlorobenzene	20.72	146	213754	5.318	ng	100
91) d-Limonene	20.72	68	122438	5.817	ng	99
92) 1,2-Dibromo-3-Chloropr...	21.09	157	157477	10.436	ng	# 78
93) n-Undecane	21.35	58	249	No Calib		
94) 1,2,4-Trichlorobenzene	22.23	180	305961	11.108	ng	99
95) Naphthalene	22.33	128	491396	5.434	ng	100
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	22.65	225	97498	5.178	ng	100
98) Cyclohexanone	18.19	55	167	No Calib	#	
99) tert-Butylbenzene	20.22	119	397604	5.233	ng	99
100) n-Butylbenzene	20.96	91	448515	5.678	ng	97
101) 1,1,1,2-Tetrachloroethane	17.75	131	96743	5.094	ng	98

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

Data File : I:\MS16\DATA\2023_03\27\03272301.D
Acq On : 27 Mar 2023 4:21
Sample : CCV R1603273_5ng
Misc : S35-01312301/S37-03012302 (3/31)

Vial: 2
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 04:44:26 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



Data File : I:\MS16\DATA\2023_03\27\03272302.D
 Acq On : 27 Mar 2023 4:55
 Sample : CCV C16032723_5ng
 Misc : S35-01312301/S35-02282307 (3/30)

Vial: 16
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 08:40:04 2023
 Quant Method : I:\MS16\METHODS\C16122022.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Dec 21 05:02:49 2022
 Response via : Initial Calibration
 DataAcq Meth:T015B.M

107 3/27/23

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 IR	Bromochloromethane (C_1)	1.000	1.000	0.0	136	-0.02
2 T	Chloropentafluoroethane	1.236	1.296	-4.9	150	0.00
3 T	1,1,1,2-Tetrafluoroethane (	0.991	1.091	-10.1	156	-0.03
4 T	1,1-Difluoroethane	0.947	0.913	3.6	137	-0.04
5 T	Chlorodifluoromethane (CFC	0.309	0.339	-9.7	152	-0.02
6 T	1-Chloro-1,1-Difluoroethane	2.131	2.471	-16.0	161	-0.02
7 T	Dichlorofluoromethane (CFC	2.274	2.283	-0.4	143	-0.02
8 T	Vinylbromide	0.891	0.901	-1.1	144	-0.03
9 T	2,2-Dichloro-1,1,1-trifluor	1.471	1.477	-0.4	143	-0.02
10 T	2-Methylbutane	1.400	1.332	4.9	137	-0.03
11 T	Methyl Acetate	3.097	2.883	6.9	135	0.00
12 T	2-Methylpentane	1.229	1.170	4.8	138	-0.02
13 T	2,2-Dichloropropane	0.633	0.532	16.0	125	-0.01
14 T	1,1-Dichloropropene	1.627	1.576	3.1	139	-0.01
15 T	Thiophene	2.445	2.389	2.3	141	-0.02
16 IR	1,4-Difluorobenzene (C_2)	1.000	1.000	0.0	137	-0.01
17 T	2,3-Dimethylpentane	0.543	0.471	13.3	126	-0.01
18 T	Dibromomethane	0.167	0.157	6.0	136	0.00
19 IR	Chlorobenzene-d5 (C_3)	1.000	1.000	0.0	140	0.00
20 T	Methyl Cyclohexane	2.106	1.731	17.8	123	-0.01
21 T	1,3-Dichloropropane	1.959	1.806	7.8	136	0.00
22 T	1,1,1,2-Tetrachloroethane	1.126	1.032	8.3	137	0.00
23 T	1-Chlorohexane	1.820	1.644	9.7	134	0.00
24 T	1,2,3-Trichloropropane	1.853	1.647	11.1	132	-0.01
25 T	Bromobenzene	2.212	1.824	17.5	124	-0.01
26 T	2-Chlorotoluene	4.017	3.402	15.3	128	0.00
27 T	4-Chlorotoluene	4.178	3.238	22.5	117	-0.01
28 T	Indane	4.891	3.954	19.2	123	-0.01
29 T	Indene	4.023	2.605	35.2#	101	0.00
30 T	1,2,4,5-Tetramethylbenzene	5.132	1.548	69.8#	48#	-0.01
31 T	1,2,3,4-Tetramethylbenzene	4.890	1.500	69.3#	45#	-0.01
32 T	1,2,3,5-Tetramethylbenzene	4.767	1.040	78.2#	34#	-0.01
33 T	1,2,3-Trichlorobenzene	1.769	0.527	70.2#	46#	-0.01

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data File : I:\MS16\DATA\2023_03\27\03272302.D
 Acq On : 27 Mar 2023 4:55
 Sample : CCV C16032723_5ng
 Misc : S35-01312301/S35-02282307 (3/30)

Vial: 16
 Operator: WA
 Inst : GCMS-16

407 3/27/23

Quant Time: Mar 27 08:40:04 2023
 Quant Method : I:\MS16\METHODS\C16122022.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Dec 21 05:02:49 2022
 Response via : Initial Calibration
 DataAcq Meth:T015B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.28	130	203546	12.500	ng	-0.02
16) 1,4-Difluorobenzene (C_2)	13.41	114	958072	12.500	ng	-0.01
19) Chlorobenzene-d5 (C_3)	17.72	54	202915	12.500	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.87	85	109701	5.449	ng	96
3) 1,1,1,2-Tetrafluoroeth...	3.96	83	90581	5.616	ng	97
4) 1,1-Difluoroethane	4.07	65	78831	5.110	ng	94
5) Chlorodifluoromethane ...	4.16	67	29251	5.811	ng	79
6) 1-Chloro-1,1-Difluoroe...	4.64	65	209240	6.030	ng	99
7) Dichlorofluoromethane ...	6.34	67	187770	5.070	ng	99
8) Vinylbromide	6.67	108	72661	5.006	ng	99
9) 2,2-Dichloro-1,1,1-tri...	7.07	83	126304	5.272	ng	100
10) 2-Methylbutane	7.17	57	110642	4.853	ng	92
11) Methyl Acetate	8.58	43	227683	4.515	ng	# 97
12) 2-Methylpentane	10.36	71	95240	4.760	ng	95
13) 2,2-Dichloropropane	11.48	77	42856	4.159	ng	99
14) 1,1-Dichloropropene	12.88	75	133415	5.037	ng	99
15) Thiophene	13.14	84	196413	4.933	ng	96
17) 2,3-Dimethylpentane	13.59	56	187624	4.512	ng	96
18) Dibromomethane	13.83	174	64819	5.070	ng	95
20) Methyl Cyclohexane	15.10	55	150366	4.398	ng	92
21) 1,3-Dichloropropane	15.98	76	153903	4.838	ng	97
22) 1,1,1,2-Tetrachloroethane	17.74	131	73747	4.033	ng	99
23) 1-Chlorohexane	17.94	91	137451	4.654	ng	96
24) 1,2,3-Trichloropropane	18.80	75	140388	4.668	ng	99
25) Bromobenzene	19.30	77	155424	4.328	ng	96
26) 2-Chlorotoluene	19.64	91	292720	4.489	ng	99
27) 4-Chlorotoluene	19.70	91	265476	3.914	ng	100
28) Indane	20.77	117	314501	3.961	ng	97
29) Indene	20.85	115	196604	3.011	ng	96
30) 1,2,4,5-Tetramethylben...	21.61	119	125653	1.508	ng	100
31) 1,2,3,4-Tetramethylben...	21.65	119	123004	1.550	ng	98
32) 1,2,3,5-Tetramethylben...	21.99	119	83607	1.080	ng	99
33) 1,2,3-Trichlorobenzene	22.57	180	42810	1.491	ng	100

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

Data File : I:\MS16\DATA\2023_03\27\03272302.D

Vial: 16

Acq On : 27 Mar 2023 4:55

Operator: WA

Sample : CCV C16032723_5ng

Inst : GCMS-16

Misc : S35-01312301/S35-02282307 (3/30)

Quant Time: Mar 27 08:40:04 2023

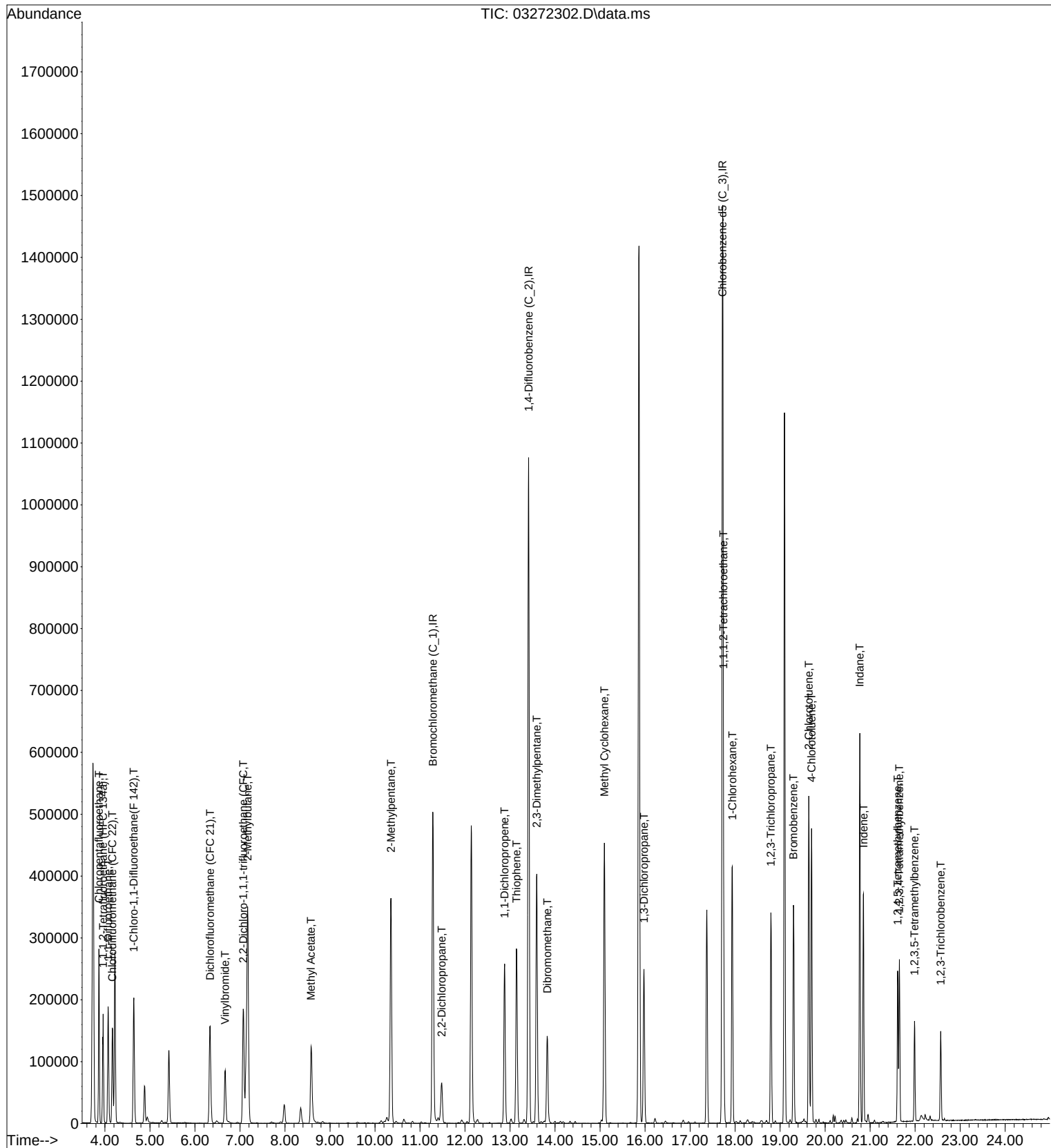
Quant Method : I:\MS16\METHODS\C16122022.M

Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD

QLast Update : Wed Dec 21 05:02:49 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M



Data File : I:\MS13\DATA\2023_03\28\03282301.D
 Acq On : 28 Mar 2023 3:02
 Sample : CCV R13032823 5.0ng
 Misc : S35-01202301/S35-03242307 (4/23)

Vial: 1
 Operator: TZ
 Inst : MS13

TZ 3/28/23

Quant Time: Mar 28 08:03:58 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 IR	Bromochloromethane (IS1)	1.000	1.000	0.0	119	-0.02
2 T	Propene	1.250	1.290	-3.2	130	0.02
3 T	Dichlorodifluoromethane (CF	2.290	2.350	-2.6	123	0.00
4 T	Chloromethane	1.651	1.841	-11.5	136	0.02
5 T	1,2-Dichloro-1,1,2,2-tetra	1.156	1.105	4.4	111	0.01
6 T	Vinyl Chloride	1.529	1.495	2.2	117	0.01
7 T	1,3-Butadiene	1.158	1.122	3.1	119	0.00
8 T	Bromomethane	1.025	1.052	-2.6	122	0.00
9 T	Chloroethane	0.723	0.759	-5.0	124	0.00
10 T	Ethanol	0.888	0.973	-9.6	139	-0.03
11 T	Acetonitrile	2.307	2.424	-5.1	133	-0.03
12 T	Acrolein	0.734	0.777	-5.9	128	-0.01
13 T	Acetone	0.758	0.789	-4.1	128	-0.02
14 T	Trichlorofluoromethane	2.061	2.143	-4.0	125	0.00
15 T	2-Propanol (Isopropanol)	3.059	3.231	-5.6	133	-0.03
16 T	Acrylonitrile	1.445	1.571	-8.7	132	-0.03
17 T	1,1-Dichloroethene	1.058	1.077	-1.8	123	0.00
18 T	2-Methyl-2-Propanol (tert-B	2.991	3.154	-5.4	128	-0.03
19 T	Methylene Chloride	1.111	1.121	-0.9	123	-0.03
20 T	3-Chloro-1-propene (Allyl C	1.774	1.889	-6.5	131	0.00
21 T	Trichlorotrifluoroethane	1.084	1.056	2.6	118	0.00
22 T	Carbon Disulfide	4.398	4.214	4.2	124	0.00
23 T	trans-1,2-Dichloroethene	1.621	1.721	-6.2	126	-0.02
24 T	1,1-Dichloroethane	1.977	2.024	-2.4	125	-0.02
25 T	Methyl tert-Butyl Ether	3.465	3.540	-2.2	125	-0.01
26 T	Vinyl Acetate	0.205	0.210	-2.4	122	-0.03
27 T	2-Butanone (MEK)	0.673	0.711	-5.6	124	-0.02
28 T	cis-1,2-Dichloroethene	1.597	1.638	-2.6	126	-0.02
29 T	Diisopropyl Ether	0.835	0.872	-4.4	125	-0.02
30 T	Ethyl Acetate	0.442	0.495	-12.0	129	-0.02
31 T	n-Hexane	1.702	1.857	-9.1	129	0.00
32 T	Chloroform	2.014	2.032	-0.9	124	-0.03
33 S	1,2-Dichloroethane-d4(SS1)	1.659	1.729	-4.2	124	-0.02
34 T	Tetrahydrofuran (THF)	0.691	0.695	-0.6	126	-0.01
35 T	Ethyl tert-Butyl Ether	1.276	1.317	-3.2	123	-0.01
36 T	1,2-Dichloroethane	1.525	1.629	-6.8	126	-0.02
37 IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	119	-0.02
38 T	1,1,1-Trichloroethane	0.414	0.423	-2.2	124	-0.02
39 T	Isopropyl Acetate	0.000	0.000	0.0	122	-0.01
40 T	1-Butanol	0.000	0.000	0.0	118	0.00
41 T	Benzene	0.972	0.984	-1.2	124	-0.02
42 T	Carbon Tetrachloride	0.365	0.375	-2.7	123	-0.02
43 T	Cyclohexane	0.356	0.365	-2.5	124	-0.01
44 T	tert-Amyl Methyl Ether	0.705	0.752	-6.7	127	-0.01
45 T	1,2-Dichloropropane	0.245	0.254	-3.7	128	-0.02
46 T	Bromodichloromethane	0.360	0.370	-2.8	125	-0.01
47 T	Trichloroethene	0.285	0.283	0.7	121	-0.02
48 T	1,4-Dioxane	0.196	0.204	-4.1	130	-0.01
49 T	2,2,4-Trimethylpentane (Iso	0.989	1.021	-3.2	125	0.00
50 T	Methyl Methacrylate	0.100	0.101	-1.0	122	-0.02
51 T	n-Heptane	0.235	0.243	-3.4	125	-0.01
52 T	cis-1,3-Dichloropropene	0.399	0.409	-2.5	123	-0.01
53 T	4-Methyl-2-pentanone	0.210	0.228	-8.6	131	-0.01
54 T	trans-1,3-Dichloropropene	0.386	0.413	-7.0	127	-0.01
55 T	1,1,2-Trichloroethane	0.252	0.250	0.8	122	-0.01

Data File : I:\MS13\DATA\2023_03\28\03282301.D
 Acq On : 28 Mar 2023 3:02
 Sample : CCV R13032823 5.0ng
 Misc : S35-01202301/S35-03242307 (4/23)

Vial: 1
 Operator: TZ
 Inst : MS13

Quant Time: Mar 28 08:03:58 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
56	IR Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	128	0.00
57	S Toluene-d8 (SS2)	6.428	5.930	7.7	120	0.00
58	T Toluene	6.120	5.489	10.3	122	-0.01
59	T 2-Hexanone	2.973	3.029	-1.9	138	-0.01
60	T Dibromochloromethane	1.796	1.663	7.4	121	-0.01
61	T 1,2-Dibromoethane	1.704	1.595	6.4	124	-0.01
62	T n-Butyl Acetate	3.379	3.434	-1.6	138	0.00
63	T n-Octane	1.203	1.134	5.7	128	0.00
64	T Tetrachloroethene	1.862	1.639	12.0	116	0.00
65	T Chlorobenzene	4.037	3.663	9.3	122	0.00
66	T Ethylbenzene	7.301	6.315	13.5	122	0.00
67	T m- & p-Xylenes	5.876	5.136	12.6	122	0.00
68	T Bromoform	1.623	1.542	5.0	123	0.00
69	T Styrene	4.040	3.745	7.3	121	0.00
70	T o-Xylene	5.619	5.091	9.4	122	0.00
71	T n-Nonane	2.719	2.713	0.2	131	0.00
72	T 1,1,2,2-Tetrachloroethane	2.427	2.326	4.2	124	0.00
73	S Bromofluorobenzene (SS3)	2.354	2.160	8.2	118	0.00
74	T Cumene	6.833	6.221	9.0	121	0.00
75	T alpha-Pinene	3.153	3.052	3.2	124	0.00
76	T n-Propylbenzene	8.192	7.550	7.8	123	0.00
77	T 3-Ethyltoluene	0.000	0.000	0.0	0#	-0.05
78	T 4-Ethyltoluene	6.555	5.978	8.8	121	0.00
79	T 1,3,5-Trimethylbenzene	5.797	5.202	10.3	119	0.00
80	T alpha-Methylstyrene	0.000	0.000	0.0	0#	-17.19#
81	T 2-Ethyltoluene	0.000	0.000	0.0	0#	-0.05
82	T 1,2,4-Trimethylbenzene	5.716	5.290	7.5	121	0.00
83	T n-Decane	0.000	0.000	0.0	129	0.00
84	T Benzyl Chloride	4.625	4.640	-0.3	128	0.00
85	T 1,3-Dichlorobenzene	3.457	3.115	9.9	120	0.00
86	T 1,4-Dichlorobenzene	3.581	3.120	12.9	121	0.00
87	T sec-Butylbenzene	7.540	6.936	8.0	121	0.00
88	T 4-Isopropyltoluene (p-Cymen	6.627	5.955	10.1	119	0.00
89	T 1,2,3-Trimethylbenzene	0.000	0.000	0.0	0#	-0.05
90	T 1,2-Dichlorobenzene	3.422	3.028	11.5	119	0.00
91	T d-Limonene	1.933	1.901	1.7	125	0.00
92	T 1,2-Dibromo-3-Chloropropane	1.296	1.200	7.4	119	0.00
93	T n-Undecane	0.000	0.000	0.0	0#	-18.27#
94	T 1,2,4-Trichlorobenzene	2.574	2.299	10.7	119	0.00
95	T Naphthalene	6.196	5.585	9.9	125	0.00
96	T n-Dodecane	0.000	0.000	0.0	111	0.00
97	T Hexachlorobutadiene	1.995	1.629	18.3	111	0.00
98	T Cyclohexanone	0.000	0.000	0.0	80	0.00
99	T tert-Butylbenzene	5.366	4.912	8.5	117	0.00
100	T n-Butylbenzene	5.862	5.509	6.0	123	0.00
101	T 1,1,1,2-Tetrachloroethane	1.522	1.426	6.3	122	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data File : I:\MS13\DATA\2023_03\28\03282301.D
 Acq On : 28 Mar 2023 3:02
 Sample : CCV R13032823 5.0ng
 Misc : S35-01202301/S35-03242307 (4/23)

Vial: 1
 Operator: TZ
 Inst : MS13

TZ 3/28/23

Quant Time: Mar 28 08:03:58 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.33	130	234049	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	9.38	114	1032450	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.88	54	197595	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.09	65	404701	13.030	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	104.24%
57) Toluene-d8 (SS2)	12.48	98	1171739	11.531	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.24%
73) Bromofluorobenzene (SS3)	16.85	174	426759	11.466	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	91.76%

Target Compounds

						Qvalue
2) Propene	3.39	42	126770	5.416	ng	99
3) Dichlorodifluoromethan...	3.47	85	233213	5.440	ng	100
4) Chloromethane	3.60	50	177571	5.744	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	3.71	135	107585	4.971	ng	100
6) Vinyl Chloride	3.79	62	141357	4.938	ng	99
7) 1,3-Butadiene	3.91	54	111329	5.133	ng	98
8) Bromomethane	4.12	94	100505	5.239	ng	98
9) Chloroethane	4.26	64	73222	5.407	ng	99
10) Ethanol	4.40	45	314249	18.905	ng	100
11) Acetonitrile	4.55	41	206528	4.782	ng	99
12) Acrolein	4.63	56	140318	10.207	ng	100
13) Acetone	4.73	58	389319	27.443	ng	99
14) Trichlorofluoromethane	4.86	101	208698	5.408	ng	99
15) 2-Propanol (Isopropanol)	4.95	45	620051	10.826	ng	96
16) Acrylonitrile	5.10	53	301483	11.140	ng	100
17) 1,1-Dichloroethene	5.36	96	108860	5.493	ng	94
18) 2-Methyl-2-Propanol (t...	5.43	59	622958	11.123	ng	99
19) Methylene Chloride	5.46	84	111197	5.347	ng	93
20) 3-Chloro-1-propene (Al...	5.55	41	187483	5.646	ng	94
21) Trichlorotrifluoroethane	5.68	151	106751	5.260	ng	95
22) Carbon Disulfide	5.70	76	840243	10.203	ng	100
23) trans-1,2-Dichloroethene	6.23	61	174046	5.734	ng	96
24) 1,1-Dichloroethane	6.42	63	202746	5.478	ng	100
25) Methyl tert-Butyl Ether	6.46	73	354627	5.467	ng	99
26) Vinyl Acetate	6.54	86	55173	14.382	ng	# 87
27) 2-Butanone (MEK)	6.76	72	139199	11.053	ng	# 88
28) cis-1,2-Dichloroethene	7.17	61	162507	5.436	ng	97
29) Diisopropyl Ether	7.37	87	172983	11.059	ng	# 83
30) Ethyl Acetate	7.37	61	195725	23.635	ng	95
31) n-Hexane	7.39	57	182515	5.726	ng	97
32) Chloroform	7.46	83	201666	5.348	ng	100
34) Tetrahydrofuran (THF)	7.84	72	132777	10.266	ng	95
35) Ethyl tert-Butyl Ether	7.91	87	261387	10.940	ng	94
36) 1,2-Dichloroethane	8.20	62	164695	5.766	ng	100
38) 1,1,1-Trichloroethane	8.48	97	183559	5.371	ng	98
39) Isopropyl Acetate	9.38	61	29679	No Calib		
40) 1-Butanol	8.89	56	5077	No Calib	#	
41) Benzene	8.98	78	434974	5.416	ng	99
42) Carbon Tetrachloride	9.14	117	161185	5.347	ng	99
43) Cyclohexane	9.29	84	316840	10.761	ng	97
44) tert-Amyl Methyl Ether	9.67	73	658310	11.302	ng	98
45) 1,2-Dichloropropane	9.93	63	110231	5.440	ng	99
46) Bromodichloromethane	10.15	83	163425	5.503	ng	99
47) Trichloroethene	10.22	130	122835	5.220	ng	99
48) 1,4-Dioxane	10.19	88	89422	5.523	ng	97
49) 2,2,4-Trimethylpentane...	10.30	57	455506	5.577	ng	99
50) Methyl Methacrylate	10.47	100	88682	10.737	ng	91

Data File : I:\MS13\DATA\2023_03\28\03282301.D
 Acq On : 28 Mar 2023 3:02
 Sample : CCV R13032823 5.0ng
 Misc : S35-01202301/S35-03242307 (4/23)

Vial: 1
 Operator: TZ
 Inst : MS13

Quant Time: Mar 28 08:03:58 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.63	71	106293	5.469	ng	97
52) cis-1,3-Dichloropropene	11.32	75	182310	5.536	ng	100
53) 4-Methyl-2-pentanone	11.38	58	202579	11.699	ng	95
54) trans-1,3-Dichloropropene	12.00	75	174051	5.457	ng	99
55) 1,1,2-Trichloroethane	12.23	97	109516	5.268	ng	98
58) Toluene	12.61	91	455543	4.709	ng	99
59) 2-Hexanone	12.96	43	507621	10.803	ng	98
60) Dibromochloromethane	13.12	129	141922	4.999	ng	99
61) 1,2-Dibromoethane	13.44	107	131147	4.870	ng	98
62) n-Butyl Acetate	13.81	43	556450	10.417	ng	98
63) n-Octane	13.96	57	95889	5.041	ng	95
64) Tetrachloroethene	14.07	166	137277	4.665	ng	99
65) Chlorobenzene	14.94	112	306892	4.810	ng	99
66) Ethylbenzene	15.44	91	524061	4.541	ng	99
67) m- & p-Xylenes	15.69	91	852540	9.179	ng	99
68) Bromoform	15.71	173	130437	5.085	ng	100
69) Styrene	16.13	104	313760	4.913	ng	99
70) o-Xylene	16.27	91	426524	4.802	ng	99
71) n-Nonane	16.64	43	227257	5.288	ng	95
72) 1,1,2,2-Tetrachloroethane	16.24	83	194845	5.078	ng	100
74) Cumene	17.06	105	526083	4.870	ng	99
75) alpha-Pinene	17.57	93	262901	5.275	ng	98
76) n-Propylbenzene	17.74	91	638479	4.930	ng	99
77) 3-Ethyltoluene	17.30	105	1301	No Calib	#	
78) 4-Ethyltoluene	17.95	105	514988	4.970	ng	100
79) 1,3,5-Trimethylbenzene	18.06	105	435827	4.756	ng	99
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.30	105	1301	No Calib	#	
82) 1,2,4-Trimethylbenzene	18.60	105	439036	4.859	ng	100
83) n-Decane	17.06	58	4519	No Calib		
84) Benzyl Chloride	18.75	91	777488	10.635	ng	99
85) 1,3-Dichlorobenzene	18.77	146	261016	4.776	ng	100
86) 1,4-Dichlorobenzene	18.86	146	261379	4.618	ng	99
87) sec-Butylbenzene	18.96	105	581109	4.876	ng	99
88) 4-Isopropyltoluene (p-...	19.18	119	498925	4.763	ng	99
89) 1,2,3-Trimethylbenzene	17.30	105	1301	No Calib	#	
90) 1,2-Dichlorobenzene	19.30	146	256057	4.734	ng	99
91) d-Limonene	19.36	68	160727	5.260	ng	97
92) 1,2-Dibromo-3-Chloropr...	19.86	157	199239	9.728	ng	92
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	21.43	180	379799	9.336	ng	100
95) Naphthalene	21.55	128	485550	4.957	ng	100
96) n-Dodecane	19.18	58	13830	No Calib		
97) Hexachlorobutadiene	21.99	225	136499	4.327	ng	98
98) Cyclohexanone	15.69	55	329	No Calib	#	
99) tert-Butylbenzene	18.59	119	411563	4.852	ng	100
100) n-Butylbenzene	19.71	91	465933	5.028	ng	99
101) 1,1,1,2-Tetrachloroethane	14.91	131	119454	4.966	ng	100

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

Data File : I:\MS13\DATA\2023_03\28\03282301.D
Acq On : 28 Mar 2023 3:02
Sample : CCV R13032823 5.0ng
Misc : S35-01202301/S35-03242307 (4/23)

Data File : I:\MS13\DATA\2023_03\28\03282302.D
 Acq On : 28 Mar 2023 3:38
 Sample : CCV C13032823 5.0ng
 Misc : S35-01202301/S35-02282306 (3/30)

Vial: 16
 Operator: TZ
 Inst : MS13

TZ 3/28/23

Quant Time: Mar 28 08:08:38 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 IR	Bromochloromethane (C_1)	1.000	1.000	0.0	115	-0.01
2 T	Chloropentafluoroethane	1.314	1.339	-1.9	117	0.01
3 T	1,1,1,2-Tetrafluoroethane (	1.009	1.045	-3.6	121	0.00
4 T	1,1-Difluoroethane	0.857	0.965	-12.6	129	0.00
5 T	Chlorodifluoromethane (CFC	0.305	0.342	-12.1	130	0.00
6 T	1-Chloro-1,1-Difluoroethane	2.025	2.179	-7.6	124	0.00
7 T	Dichlorofluoromethane (CFC	2.112	2.298	-8.8	126	0.01
8 T	Vinylbromide	0.971	0.949	2.3	112	0.00
9 T	2,2-Dichloro-1,1,1-trifluor	1.467	1.515	-3.3	120	0.00
10 T	2-Methylbutane	0.914	1.028	-12.5	128	0.00
11 T	Methyl Acetate	2.060	2.517	-22.2	142	0.00
12 T	2-Methylpentane	0.873	0.933	-6.9	124	0.00
13 T	2,2-Dichloropropane	1.708	1.758	-2.9	119	-0.01
14 T	1,1-Dichloropropene	1.409	1.467	-4.1	120	-0.02
15 T	Thiophene	2.179	2.219	-1.8	117	-0.02
16 IR	1,4-Difluorobenzene (C_2)	1.000	1.000	0.0	119	-0.02
17 T	2,3-Dimethylpentane	0.368	0.405	-10.1	131	-0.01
18 T	Dibromomethane	0.222	0.192	13.5	103	-0.01
19 IR	Chlorobenzene-d5 (C_3)	1.000	1.000	0.0	139	0.00
20 T	Methyl Cyclohexane	2.081	1.892	9.1	128	-0.01
21 T	1,3-Dichloropropane	2.220	1.891	14.8	122	-0.01
22 T	1,1,1,2-Tetrachloroethane	1.615	1.268	21.5	110	0.00
23 T	1-Chlorohexane	2.189	1.823	16.7	115	0.00
24 T	1,2,3-Trichloropropane	2.329	1.949	16.3	115	0.00
25 T	Bromobenzene	2.761	2.281	17.4	117	0.00
26 T	2-Chlorotoluene	4.995	4.086	18.2	115	0.00
27 T	4-Chlorotoluene	5.315	4.239	20.2	111	0.00
28 T	Indane	6.294	4.969	21.1	109	0.00
29 T	Indene	5.474	4.122	24.7	103	0.00
30 T	1,2,4,5-Tetramethylbenzene	6.280	4.919	21.7	105	0.00
31 T	1,2,3,4-Tetramethylbenzene	6.446	4.972	22.9	105	0.00
32 T	1,2,3,5-Tetramethylbenzene	6.068	4.601	24.2	100	0.00
33 T	1,2,3-Trichlorobenzene	2.689	1.716	36.2#	82	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data File : I:\MS13\DATA\2023_03\28\03282302.D
 Acq On : 28 Mar 2023 3:38
 Sample : CCV C13032823 5.0ng
 Misc : S35-01202301/S35-02282306 (3/30)

Vial: 16
 Operator: TZ
 Inst : MS13

TZ 3/28/23

Quant Time: Mar 28 08:08:38 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.31	130	228154	12.500	ng	-0.01
16) 1,4-Difluorobenzene (C_2)	9.36	114	993978	12.500	ng	-0.02
19) Chlorobenzene-d5 (C_3)	14.87	54	186392	12.500	ng	0.00

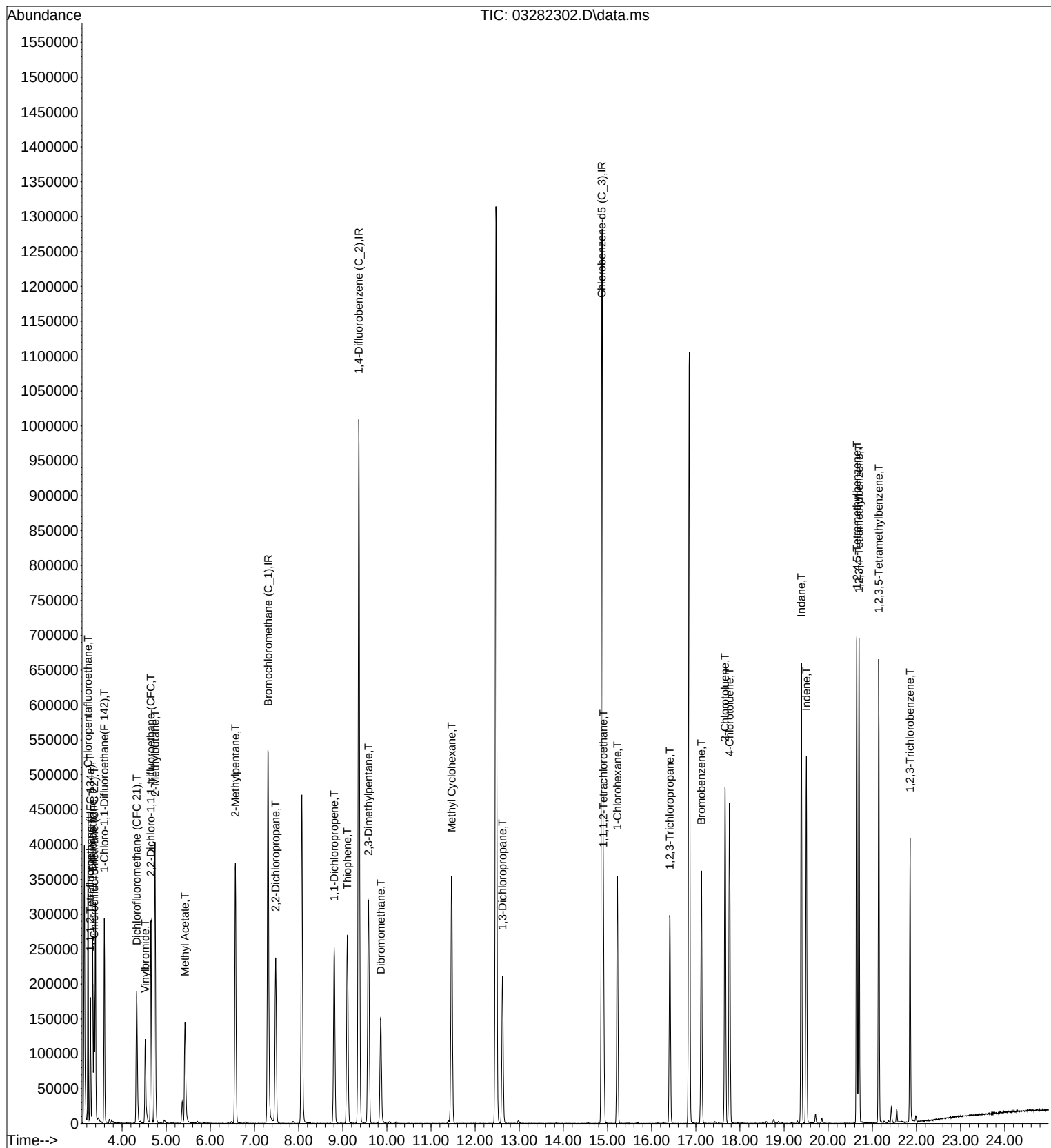
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.23	85	127074	5.299	ng	96
3) 1,1,1,2-Tetrafluoroeth...	3.28	83	97312	5.286	ng	97
4) 1,1-Difluoroethane	3.33	65	93352	5.965	ng	98
5) Chlorodifluoromethane ...	3.37	67	33121	5.951	ng	100
6) 1-Chloro-1,1-Difluoroe...	3.60	65	206849	5.597	ng	99
7) Dichlorofluoromethane ...	4.33	67	211772	5.493	ng	98
8) Vinylbromide	4.53	108	85736	4.839	ng	99
9) 2,2-Dichloro-1,1,1-tri...	4.65	83	145213	5.423	ng	100
10) 2-Methylbutane	4.75	57	95687	5.734	ng	87
11) Methyl Acetate	5.43	43	222808	5.925	ng	94
12) 2-Methylpentane	6.57	71	85142	5.341	ng	80
13) 2,2-Dichloropropane	7.48	77	158827	5.094	ng	99
14) 1,1-Dichloropropene	8.81	75	139272	5.414	ng	93
15) Thiophene	9.10	84	204497	5.141	ng	92
17) 2,3-Dimethylpentane	9.59	56	167361	5.715	ng	94
18) Dibromomethane	9.86	174	82447	4.672	ng	92
20) Methyl Cyclohexane	11.47	55	150931	4.864	ng	90
21) 1,3-Dichloropropane	12.62	76	148014	4.471	ng	94
22) 1,1,1,2-Tetrachloroethane	14.91	131	83170	3.454	ng	98
23) 1-Chlorohexane	15.23	91	140025	4.290	ng	92
24) 1,2,3-Trichloropropane	16.41	75	152589	4.394	ng	97
25) Bromobenzene	17.13	77	178556	4.338	ng	90
26) 2-Chlorotoluene	17.66	91	322888	4.335	ng	97
27) 4-Chlorotoluene	17.76	91	319226	4.028	ng	97
28) Indane	19.39	117	363066	3.869	ng	99
29) Indene	19.51	115	285784	3.501	ng	98
30) 1,2,4,5-Tetramethylben...	20.65	119	366763	3.916	ng	98
31) 1,2,3,4-Tetramethylben...	20.70	119	374433	3.896	ng	99
32) 1,2,3,5-Tetramethylben...	21.14	119	339576	3.753	ng	98
33) 1,2,3-Trichlorobenzene	21.86	180	127915	3.191	ng	99

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

Data File : I:\MS13\DATA\2023_03\28\03282302.D
Acq On : 28 Mar 2023 3:38
Sample : CCV C13032823 5.0ng
Misc : S35-01202301/S35-02282306 (3/30)

Vial: 16
Operator: TZ
Inst : MS13

Quant Time: Mar 28 08:08:38 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: WSP USA Inc. **ALS Project ID:** P2301250
Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

Internal Standard Area and RT Summary

Test Code: EPA TO-15 **Lab File ID:** 03232301.D
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 **Date Analyzed:** 3/23/23
Analyst: Topacio Zavala **Time Analyzed:** 01:02
Sample Type: 6.0 L Summa Canister(s)
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA	#	RT	#	AREA	#
24 Hour Standard	238161		7.35		188684	
Upper Limit	333425		7.68		264158	
Lower Limit	142897		7.02		113210	

Client Sample ID							
01	Method Blank	231707	7.31	1024202	9.37	183901	14.88
02	Lab Control Sample	241425	7.36	1051948	9.40	189790	14.88
03	Duplicate Lab Control Sample	241434	7.36	1067971	9.40	189651	14.88
04	SS-BLDG1	217678	7.32	950901	9.38	182577	14.88
05	SS-BLDG2-1	241670	7.34	1062024	9.38	199519	14.88
06	SS-BLDG2-2	247870	7.32	1090213	9.38	204220	14.88
07	SS-BLDG4-1	240346	7.32	1067128	9.37	197117	14.88
08	SS-BLDG4-2	242209	7.31	1069441	9.37	194912	14.87
09	SS-BLDG5	246686	7.33	1087274	9.39	202509	14.88
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

ALS Project ID: P2301250

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

Internal Standard Area and RT Summary

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Lab File ID: 03242301.D

Analyst: Topacio Zavala

Date Analyzed: 3/24/23

Sample Type: 6.0 L Silonite Canister(s)

Time Analyzed: 02:00

Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA	# RT	AREA	# RT	AREA	# RT
24 Hour Standard	245997	7.36	1087738	9.40	202018	14.88
Upper Limit	344396	7.69	1522833	9.73	282825	15.21
Lower Limit	147598	7.03	652643	9.07	121211	14.55

Client Sample ID		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA	# RT	AREA	# RT	AREA	# RT
01	Method Blank	233321	7.32	1028417	9.37	187025	14.88
02	Lab Control Sample	242748	7.35	1062031	9.39	195834	14.88
03	Duplicate Lab Control Sample	245775	7.36	1075118	9.40	196120	14.88
04	SS-BLDG3	251877	7.32	1099782	9.38	197841	14.88
05	SS-BLDG5 (Dilution)	242747	7.32	1044426	9.38	188566	14.88
06	SS-BLDG6A-1	243211	7.32	1055277	9.38	196737	14.88
07	SS-BLDG6A-2	236495	7.33	1021652	9.38	198367	14.88
08	SS-BLDG8	251407	7.33	1096437	9.38	208150	14.88
09	SS-BLDG9	250646	7.34	1102989	9.40	207604	14.88
10	SS-BLDG10	250353	7.33	1096020	9.38	213841	14.88
11	SS-BLDG8 (Dilution)	246688	7.32	1068381	9.37	199092	14.88
12	SS-BLDG10 (Dilution)	242512	7.32	1051819	9.37	198799	14.88
13	SS-BLDG9 (Dilution)	240214	7.32	1023652	9.38	193306	14.88
14	SS-BLDG11A	245357	7.33	1075408	9.38	207405	14.88
15	SS-BLDG13A	245241	7.34	1072736	9.39	220317	14.88
16	SS-BLDG13B	247342	7.33	1080478	9.38	213157	14.88
17	SS-BLDG18	249337	7.32	1111653	9.38	223930	14.88
18	SS-BLDG21-1	247107	7.32	1092519	9.38	205611	14.88
19	SS-BLDG21-2	240980	7.32	1060372	9.38	201891	14.88
20	SS-BLDG24-1	245098	7.32	1072536	9.38	203309	14.88

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc. **ALS Project ID:** P2301250
Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

Internal Standard Area and RT Summary

Test Code: EPA TO-15 **Lab File ID:** 03242301.D
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 **Date Analyzed:** 3/24/23
Analyst: Topacio Zavala **Time Analyzed:** 02:00
Sample Type: 6.0 L Silonite Canister(s)
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA	#	RT	#	AREA	#
24 Hour Standard	245997	7.36	1087738	9.40	202018	14.88
Upper Limit	344396	7.69	1522833	9.73	282825	15.21
Lower Limit	147598	7.03	652643	9.07	121211	14.55

Client Sample ID						
21	SS-BLDG24-2	235053	7.32	1031723	9.37	190767
22	SS-BLDG33-1	234567	7.32	1040579	9.38	195355
23	SS-BLDG33-2	239906	7.32	1052992	9.38	202123
24	SS-BLDG34-1	248856	7.34	1089688	9.38	203040
25	SS-BLDG34-2	246155	7.33	1092479	9.38	203816
26	SS-BLDG34-3	246431	7.32	1092128	9.38	208197
27	SS-BLDG34-3 (Dilution)	243013	7.31	1054001	9.37	194380
28	SS-BLDG34-4	232683	7.32	1048580	9.38	196951
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

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RT UPPER LIMIT = 0.33 minutes of internal standard RT

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Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: WSP USA Inc.

ALS Project ID: P2301250

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

Internal Standard Area and RT Summary

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Lab File ID: 03242302.D

Analyst: Wida Ang

Date Analyzed: 3/24/23

Sample Type: 6.0 L Silonite Canister(s)

Time Analyzed: 05:38

Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA	# RT	AREA	# RT	AREA	# RT
24 Hour Standard	221645	11.30	1029043	13.42	213638	17.72
Upper Limit	310303	11.63	1440660	13.75	299093	18.05
Lower Limit	132987	10.97	617426	13.09	128183	17.39

Client Sample ID		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA	# RT	AREA	# RT	AREA	# RT
01	Method Blank	205906	11.28	967198	13.41	203106	17.72
02	Lab Control Sample	226753	11.29	1035722	13.42	222619	17.72
03	Duplicate Lab Control Sample	221876	11.30	1015719	13.41	220368	17.72
04	IA-BLDG1-1	222697	11.28	1026833	13.41	225270	17.72
05	IA-BLDG8	212187	11.28	981281	13.41	215785	17.72
06	IA-BLDG9	210287	11.28	967153	13.41	214375	17.72
07	IA-BLDG10	211718	11.28	974392	13.41	217472	17.72
08	IA-BLDG11A	207996	11.28	952003	13.41	213916	17.72
09	IA-BLDG34-4	212868	11.28	986211	13.41	222512	17.72
10	IA-BLDG13A	208917	11.28	957268	13.41	215617	17.72
11	IA-BLDG13B	204294	11.28	941947	13.41	210305	17.72
12	IA-BLDG13B (Lab Duplicate)	204128	11.28	939486	13.41	210797	17.72
13	IA-BLDG21-1	201438	11.28	921602	13.41	204767	17.72
14	IA-BLDG21-2	199463	11.28	919256	13.41	206545	17.72
15	IA-BLDG24-1	200601	11.28	929152	13.41	208123	17.72
16	IA-BLDG24-2	203218	11.28	935743	13.41	207755	17.72
17	IA-BLDG33-1	200235	11.30	919675	13.42	205517	17.72
18	IA-BLDG33-2	200114	11.28	913191	13.41	204407	17.72
19	IA-BLDG34-1	198966	11.30	916719	13.42	202501	17.72
20	IA-BLDG34-2	197382	11.28	908063	13.41	199227	17.72
21	IA-BLDG34-3	193534	11.28	900178	13.41	196963	17.72

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: WSP USA Inc. **ALS Project ID:** P2301250
Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

Internal Standard Area and RT Summary

Test Code: EPA TO-15 **Lab File ID:** 03272301.D
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 **Date Analyzed:** 3/27/23
Analyst: Wida Ang **Time Analyzed:** 03:42
Sample Type: 6.0 L Summa Canister(s)
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA	# RT	AREA	# RT	AREA	# RT
24 Hour Standard	259497	7.33	1140830	9.38	207206	14.88
Upper Limit	363296	7.66	1597162	9.71	290088	15.21
Lower Limit	155698	7.00	684498	9.05	124324	14.55

Client Sample ID		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA	# RT	AREA	# RT	AREA	# RT
01	Method Blank	232832	7.31	1040138	9.36	191886	14.87
02	Lab Control Sample	236345	7.35	1047621	9.39	192464	14.88
03	Duplicate Lab Control Sample	240878	7.35	1075301	9.39	196733	14.88
04	SS-BLDG13A (Dilution)	233577	7.32	1025311	9.37	189342	14.88
05	SS-BLDG13B (Dilution)	234789	7.32	1028274	9.36	191425	14.88
06	SS-BLDG21-2 (Dilution)	228923	7.31	1006724	9.36	186893	14.87
07	SS-BLDG11A (Dilution)	233412	7.32	1003815	9.37	185585	14.87
08	SS-031523A	228976	7.32	1007645	9.38	196210	14.87
09	SS-031523A (Dilution)	230248	7.30	974430	9.36	185143	14.87
10	SS-031523B	228733	7.33	1011616	9.38	197129	14.88
11	IA-BLDG1-2	240177	7.31	1067053	9.36	201732	14.87
12	IA-BLDG2-1	231388	7.31	1030024	9.37	196384	14.88
13	IA-BLDG2-2	231293	7.31	1019821	9.37	196000	14.88
14	IA-BLDG3	225475	7.31	985942	9.36	192259	14.87
15							
16							
17							
18							
19							
20							

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

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RT LOWER LIMIT = 0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: WSP USA Inc.

ALS Project ID: P2301250

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

Internal Standard Area and RT Summary

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Lab File ID: 03272301.D

Analyst: Wida Ang

Date Analyzed: 3/27/23

Sample Type: 6.0 L Summa Canister(s)

Time Analyzed: 04:21

Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA	# RT	AREA	# RT	AREA	# RT
24 Hour Standard	217846	11.30	1009472	13.42	213618	17.72
Upper Limit	304984	11.63	1413261	13.75	299065	18.05
Lower Limit	130708	10.97	605683	13.09	128171	17.39

Client Sample ID		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA	# RT	AREA	# RT	AREA	# RT
01	Method Blank	199201	11.28	939227	13.41	195607	17.72
02	Lab Control Sample	208121	11.29	966771	13.41	201678	17.72
03	Duplicate Lab Control Sample	216341	11.29	995074	13.41	208160	17.72
04	IA-031523A	208580	11.28	968650	13.41	202856	17.72
05	OA-031523A	205158	11.28	948064	13.41	200004	17.72
06	OA-031523B	204665	11.28	946813	13.41	199840	17.72
07	IA-031523BR	200570	11.28	934031	13.41	198017	17.72
08	IA-BLDG18	198989	11.28	919275	13.41	199035	17.72
09	IA-BLDG6A-2	242789	11.28	1107858	13.41	230017	17.72
10	IA-BLDG6A-1	235376	11.28	1067909	13.41	224607	17.72
11	IA-BLDG5	226196	11.28	1030384	13.41	217973	17.72
12	IA-BLDG4-2	221826	11.28	1019430	13.41	214197	17.72
13	IA-BLDG4-1	216547	11.28	979913	13.41	210249	17.72
14							
15							
16							
17							
18							
19							
20							

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: WSP USA Inc. **ALS Project ID:** P2301250
Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

Internal Standard Area and RT Summary

Test Code: EPA TO-15 **Lab File ID:** 03282301.D
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 **Date Analyzed:** 3/28/23
Analyst: Topacio Zavala **Time Analyzed:** 03:02
Sample Type: 6.0 L Summa Canister(s)
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA	#	RT	#	AREA	#
24 Hour Standard	234049	7.33	1032450	9.38	197595	14.88
Upper Limit	327669	7.66	1445430	9.71	276633	15.21
Lower Limit	140429	7.00	619470	9.05	118557	14.55

Client Sample ID		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA	#	RT	#	AREA	#
01	Method Blank	216174	7.32	974420	9.37	183462	14.87
02	Lab Control Sample	231709	7.34	1025442	9.39	196634	14.88
03	Duplicate Lab Control Sample	235870	7.34	1032284	9.39	198101	14.88
04	SS-BLDG18 (Dilution)	233601	7.30	1019495	9.36	192884	14.87
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

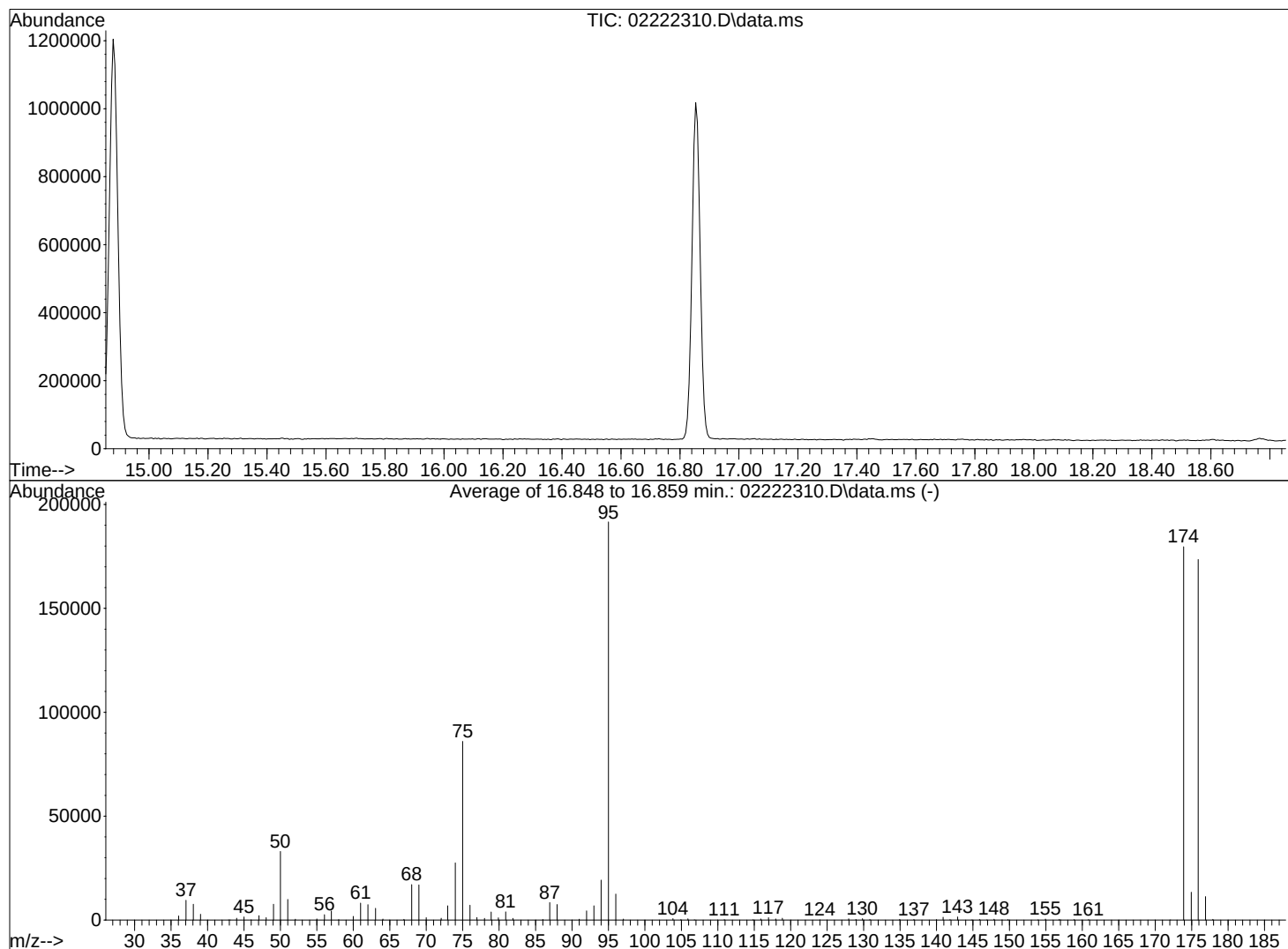
Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.

Data Path : I:\MS13\DATA\2023_02\22\
Data File : 02222310.D
Acq On : 22 Feb 2023 14:30
Operator : TZ
Sample : BFB R13022223
Misc : S35-01202301
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : I:\MS13\METHODS\R13022223.M
Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
Last Update : Thu Feb 23 07:44:44 2023



AutoFind: Scans 2418, 2419, 2420; Background Corrected with Scan 2410

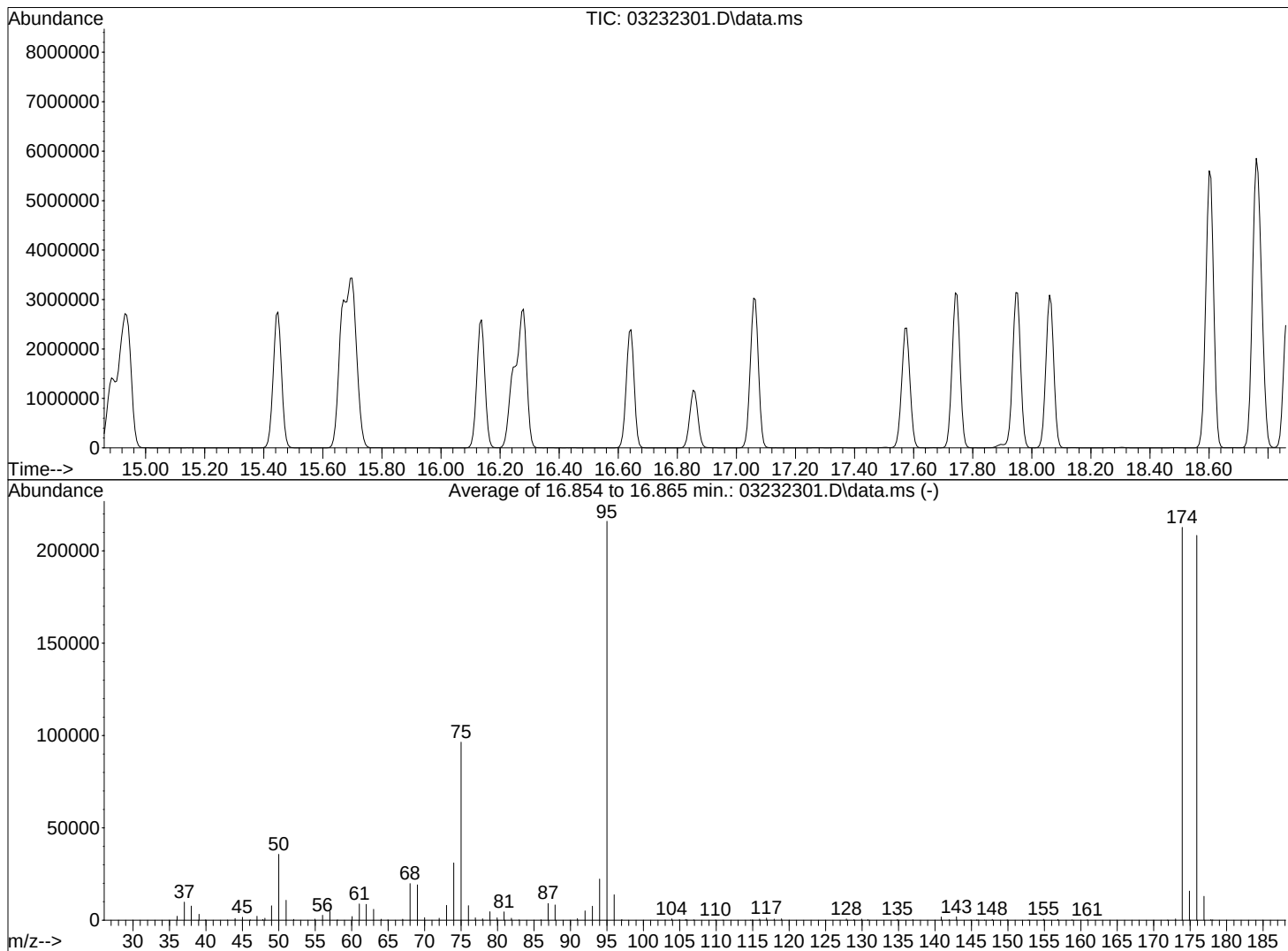
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.2	33005	PASS
75	95	30	66	44.9	85988	PASS
95	95	100	100	100.0	191595	PASS
96	95	5	9	6.5	12490	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	93.8	179627	PASS
175	174	4	9	7.4	13359	PASS
176	174	93	101	96.6	173504	PASS
177	176	5	9	6.5	11293	PASS

TZ 2/23/23

Data Path : I:\MS13\DATA\2023_03\23\
Data File : 03232301.D
Acq On : 23 Mar 2023 1:02
Operator : TZ
Sample : CCV R13032323 25ng
Misc : S35-01202301/S35-03012301 (3/31)
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : I:\MS13\METHODS\R13022223.M
Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
Last Update : Thu Feb 23 07:57:30 2023



AutoFind: Scans 2419, 2420, 2421; Background Corrected with Scan 2410

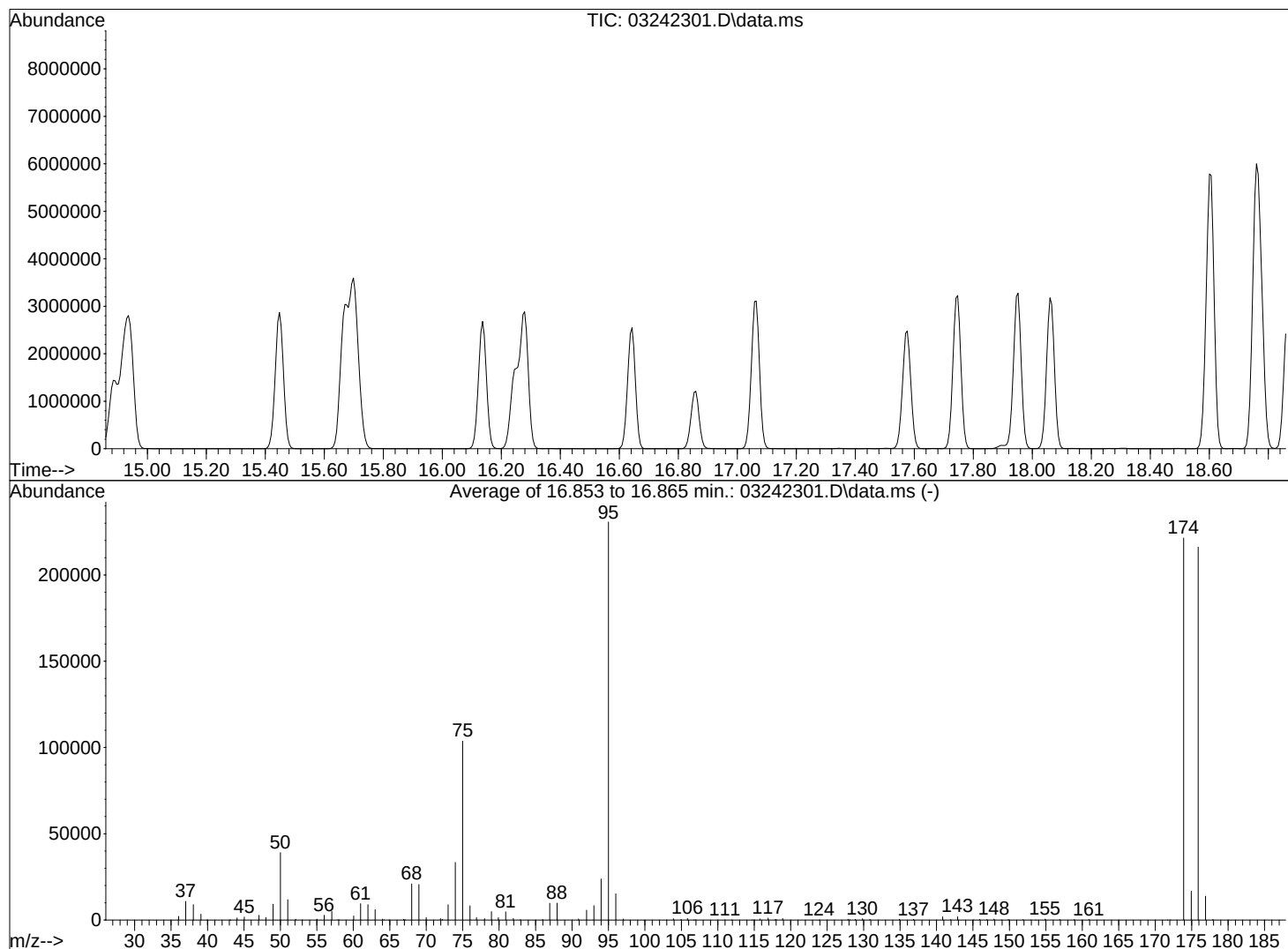
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.5	35677	PASS
75	95	30	66	44.6	96440	PASS
95	95	100	100	100.0	216043	PASS
96	95	5	9	6.4	13758	PASS
173	174	0.00	2	0.3	678	PASS
174	95	50	120	98.5	212779	PASS
175	174	4	9	7.4	15774	PASS
176	174	93	101	98.0	208427	PASS
177	176	5	9	6.2	12976	PASS

TZ 3/23/23

Data Path : I:\MS13\DATA\2023_03\24\
 Data File : 03242301.D
 Acq On : 24 Mar 2023 2:00
 Operator : TZ
 Sample : CCV R13032423 25ng
 Misc : S35-01202301/S35-03012301 (3/31)
 ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : I:\MS13\METHODS\R13022223.M
 Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
 Last Update : Thu Feb 23 07:57:30 2023



AutoFind: Scans 2419, 2420, 2421; Background Corrected with Scan 2410

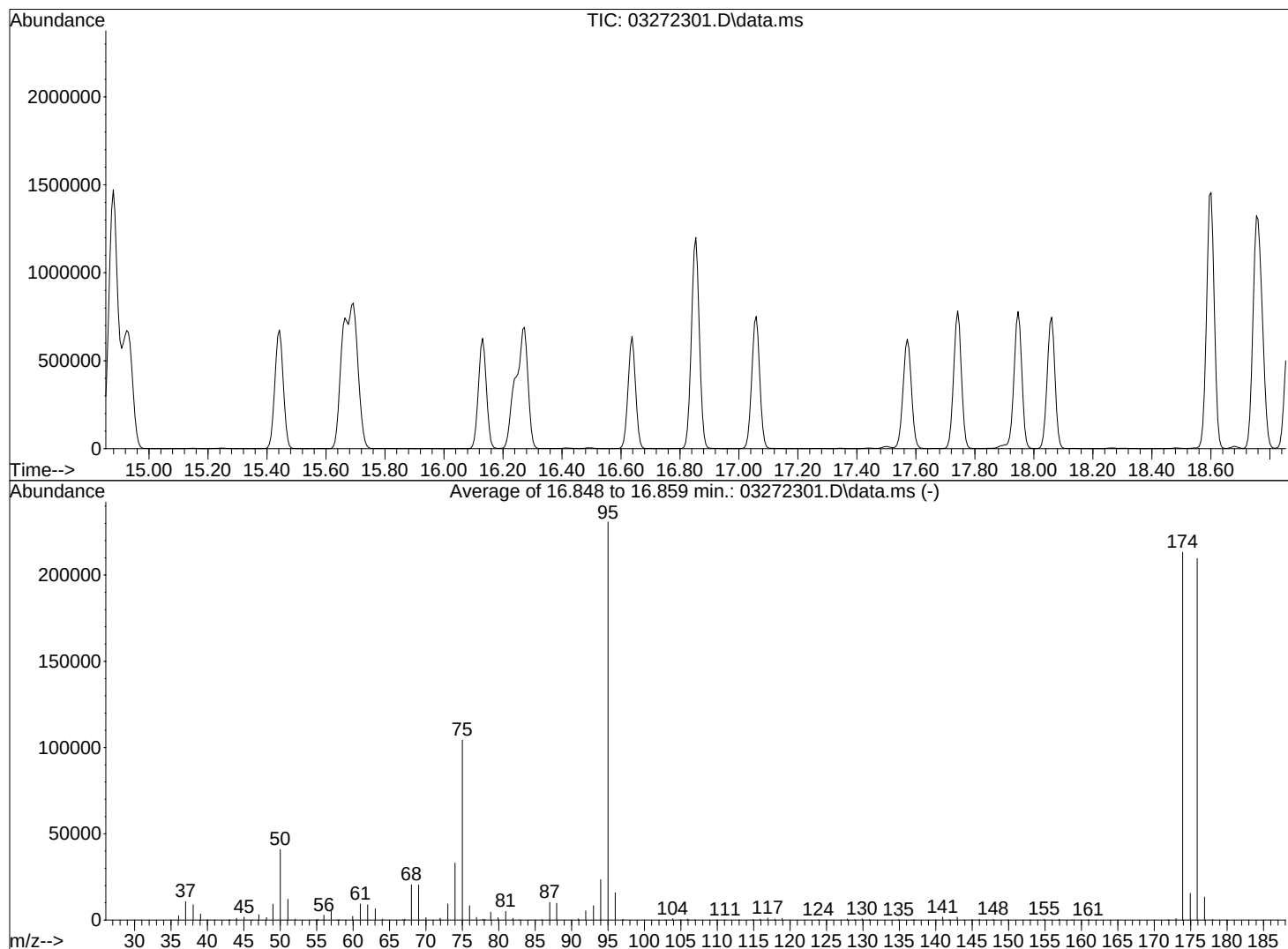
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.9	39099	PASS
75	95	30	66	44.9	103701	PASS
95	95	100	100	100.0	230720	PASS
96	95	5	9	6.6	15224	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	96.0	221419	PASS
175	174	4	9	7.5	16652	PASS
176	174	93	101	97.6	216213	PASS
177	176	5	9	6.4	13809	PASS

TZ 3/24/23

Data Path : I:\MS13\DATA\2023_03\27\
 Data File : 03272301.D
 Acq On : 27 Mar 2023 3:42
 Operator : WA
 Sample : CCV R13032723 5.0ng
 Misc : S35-01202301/S35-03242307 (4/23)
 ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : I:\MS13\METHODS\R13022223.M
 Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
 Last Update : Thu Feb 23 07:57:30 2023



AutoFind: Scans 2418, 2419, 2420; Background Corrected with Scan 2409

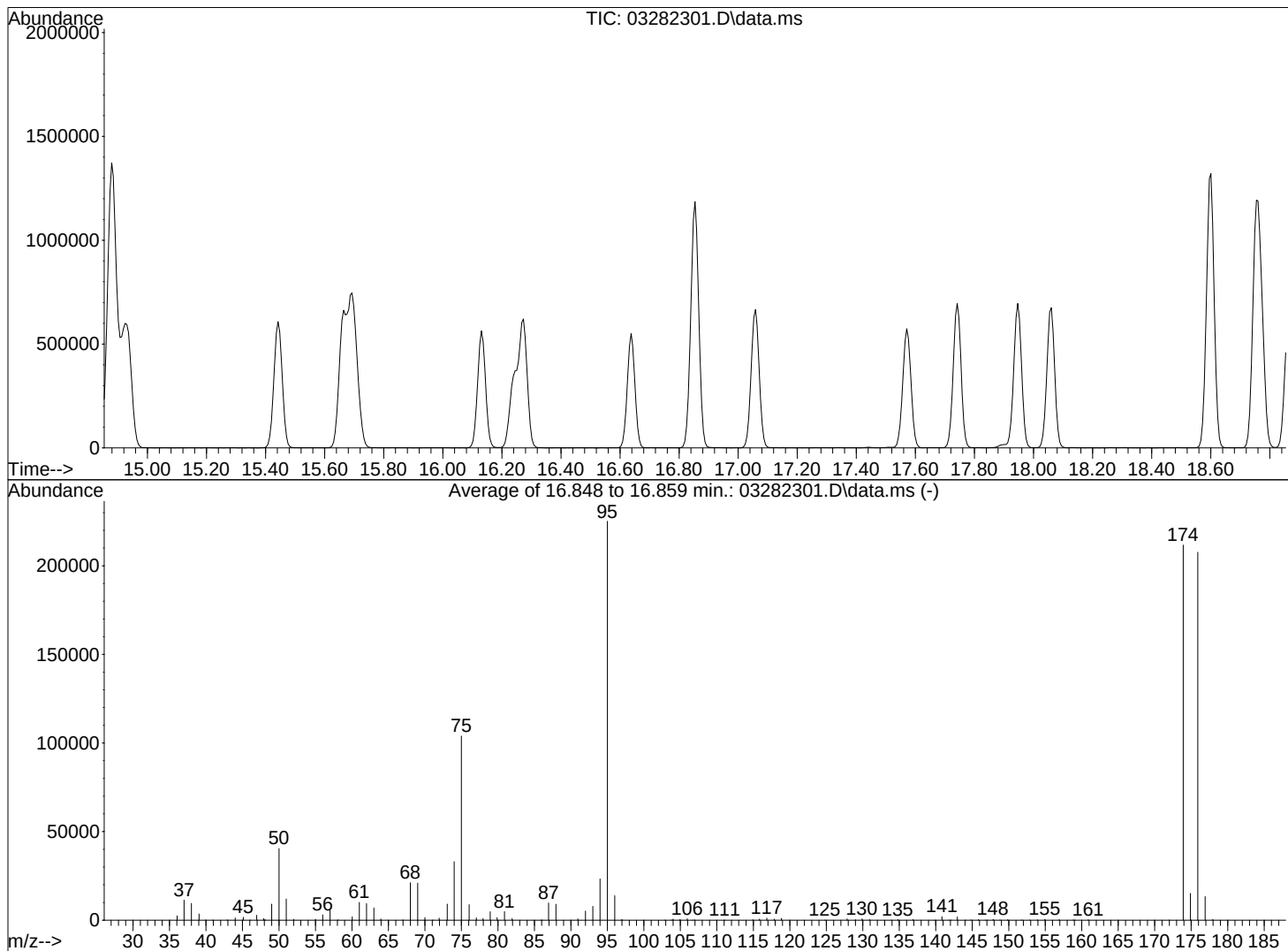
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.7	40880	PASS
75	95	30	66	45.2	104397	PASS
95	95	100	100	100.0	230784	PASS
96	95	5	9	6.9	15868	PASS
173	174	0.00	2	0.4	791	PASS
174	95	50	120	92.4	213291	PASS
175	174	4	9	7.3	15507	PASS
176	174	93	101	98.3	209579	PASS
177	176	5	9	6.4	13351	PASS

T2 3/27/23

Data Path : I:\MS13\DATA\2023_03\28\
Data File : 03282301.D
Acq On : 28 Mar 2023 3:02
Operator : TZ
Sample : CCV R13032823 5.0ng
Misc : S35-01202301/S35-03242307 (4/23)
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : I:\MS13\METHODS\R13022223.M
Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
Last Update : Thu Feb 23 07:57:30 2023



AutoFind: Scans 2418, 2419, 2420; Background Corrected with Scan 2409

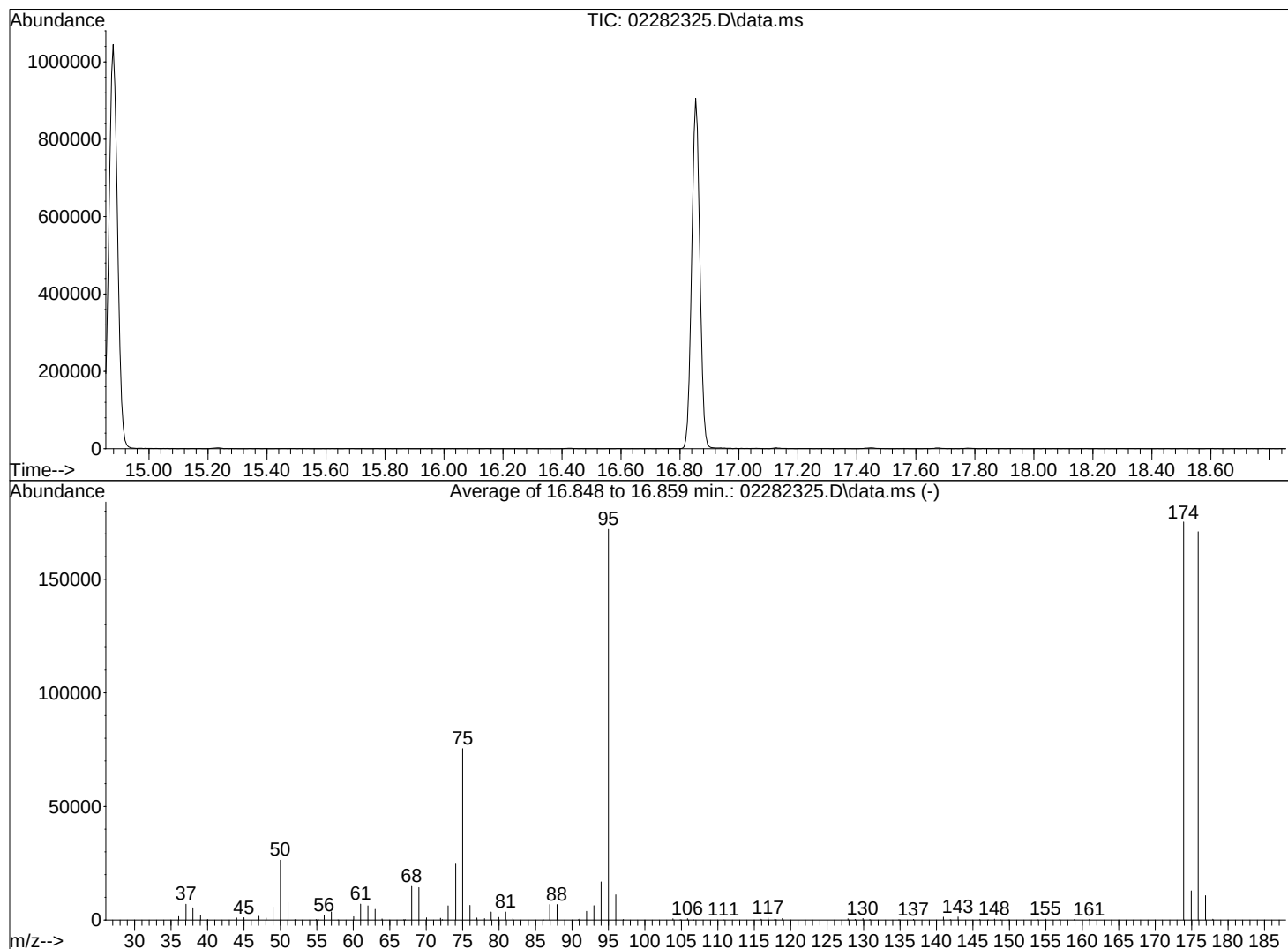
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.0	40499	PASS
75	95	30	66	46.1	103883	PASS
95	95	100	100	100.0	225109	PASS
96	95	5	9	6.2	13901	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	94.0	211712	PASS
175	174	4	9	7.2	15156	PASS
176	174	93	101	98.1	207637	PASS
177	176	5	9	6.4	13299	PASS

TZ 3/28/23

Data Path : I:\MS13\DATA\2023_02\28\
 Data File : 02282325.D
 Acq On : 28 Feb 2023 20:46
 Operator : TZ
 Sample : T0-15 BFB Std.
 Misc : S35-01202301
 ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINTVB.P

Method : I:\MS13\METHODS\C13022823.M
 Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 Last Update : Wed Mar 01 07:58:55 2023



AutoFind: Scans 2418, 2419, 2420; Background Corrected with Scan 2408

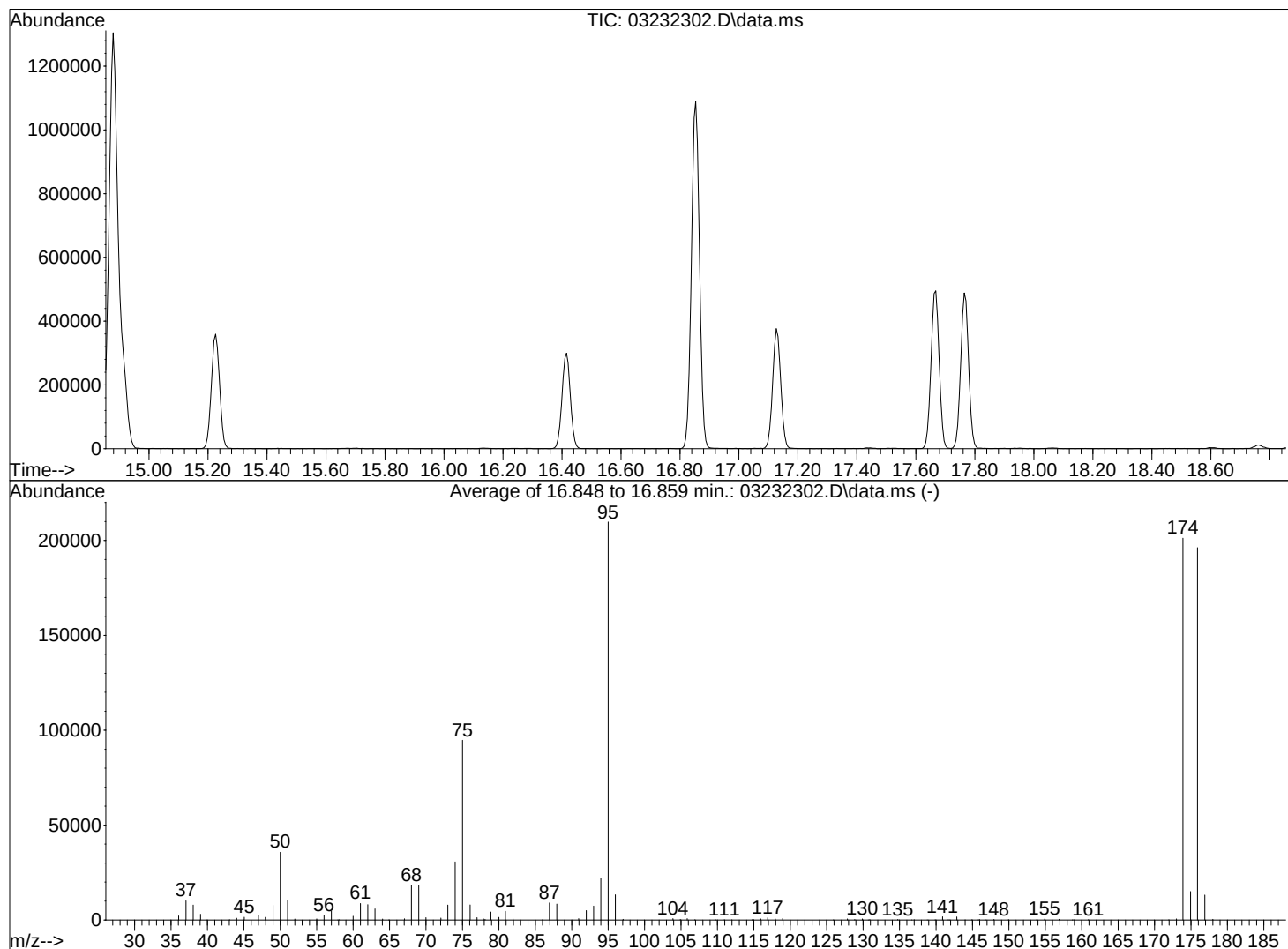
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	15.3	26371	PASS
75	95	30	66	43.9	75459	PASS
95	95	100	100	100.0	172011	PASS
96	95	5	9	6.5	11103	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	101.9	175232	PASS
175	174	4	9	7.3	12862	PASS
176	174	93	101	97.6	170944	PASS
177	176	5	9	6.3	10726	PASS

TZ 3/1/23

Data Path : I:\MS13\DATA\2023_03\23\
Data File : 03232302.D
Acq On : 23 Mar 2023 1:38
Operator : TZ
Sample : CCV C13032323 5.0ng
Misc : S35-01202301/S35-02282306 (3/30)
ALS Vial : 16 Sample Multiplier: 1

Integration File: RTEINTVB.P

Method : I:\MS13\METHODS\C13022823.M
Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
Last Update : Wed Mar 01 07:58:55 2023



AutoFind: Scans 2418, 2419, 2420; Background Corrected with Scan 2408

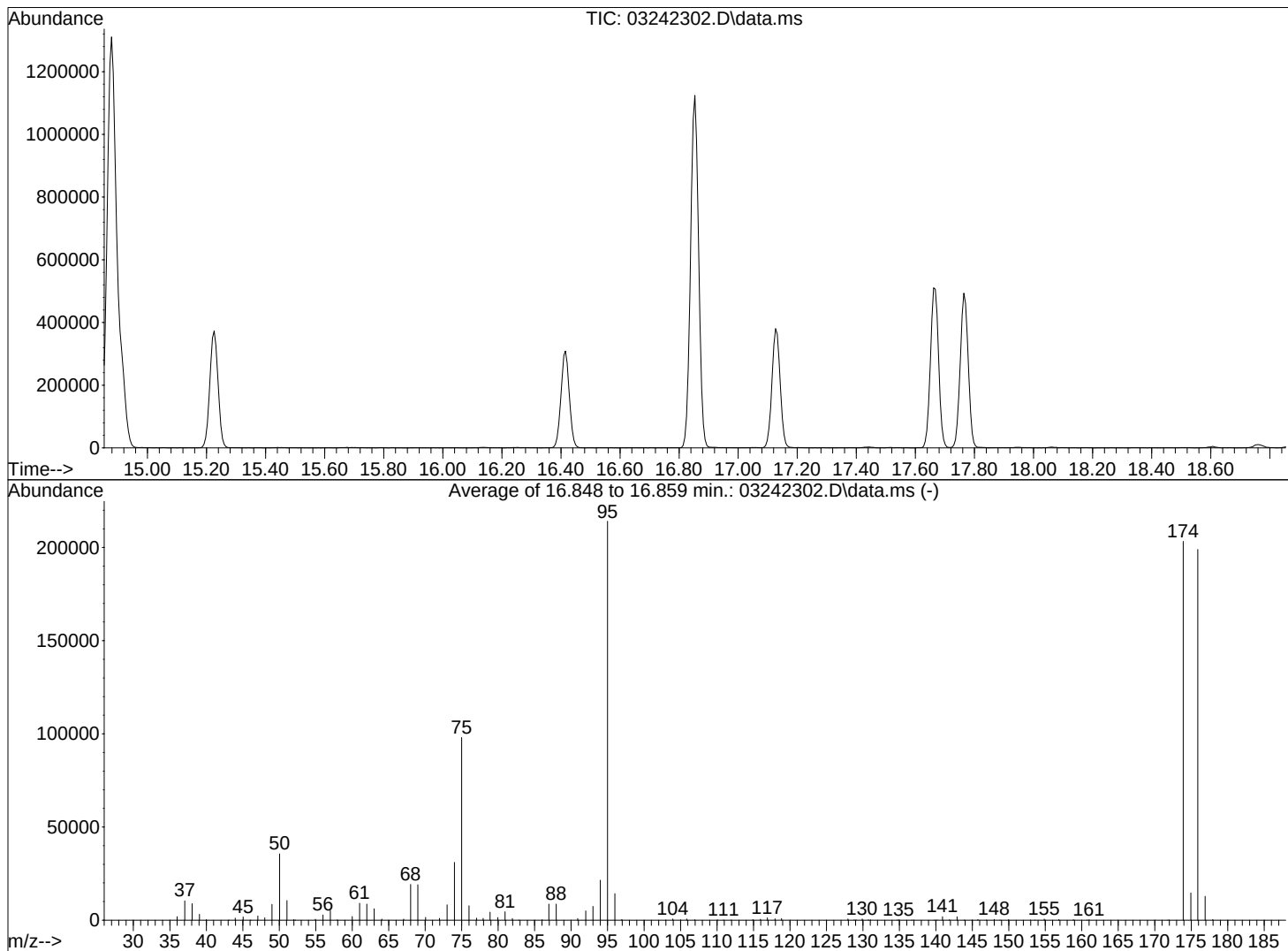
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.0	35715	PASS
75	95	30	66	45.2	94725	PASS
95	95	100	100	100.0	209771	PASS
96	95	5	9	6.3	13289	PASS
173	174	0.00	2	0.3	626	PASS
174	95	50	120	95.9	201259	PASS
175	174	4	9	7.5	15010	PASS
176	174	93	101	97.5	196267	PASS
177	176	5	9	6.7	13174	PASS

TZ 3/23/23

Data Path : I:\MS13\DATA\2023_03\24\
Data File : 03242302.D
Acq On : 24 Mar 2023 2:35
Operator : TZ
Sample : CCV C13032423 5.0ng
Misc : S35-01202301/S35-02282306 (3/30)
ALS Vial : 16 Sample Multiplier: 1

Integration File: RTEINTVB.P

Method : I:\MS13\METHODS\C13022823.M
Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
Last Update : Wed Mar 01 07:58:55 2023



AutoFind: Scans 2418, 2419, 2420; Background Corrected with Scan 2408

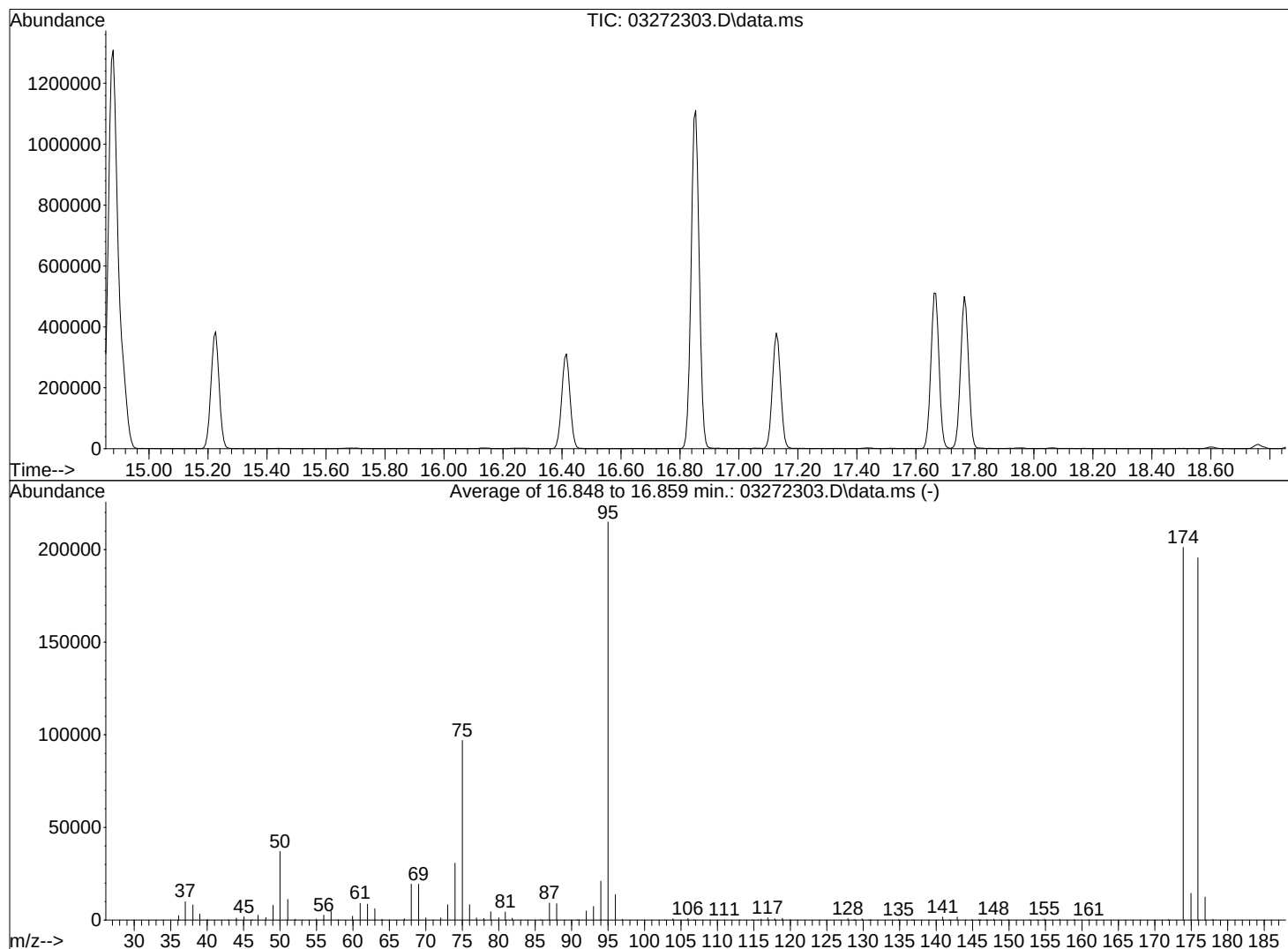
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.6	35571	PASS
75	95	30	66	45.8	98024	PASS
95	95	100	100	100.0	214059	PASS
96	95	5	9	6.7	14237	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	95.0	203264	PASS
175	174	4	9	7.2	14647	PASS
176	174	93	101	97.9	198976	PASS
177	176	5	9	6.5	12870	PASS

TZ 3/24/23

Data Path : I:\MS13\DATA\2023_03\27\
Data File : 03272303.D
Acq On : 27 Mar 2023 4:54
Operator : WA
Sample : CCV C13032723 5.0ng
Misc : S35-01202301/S35-02282306 (3/30)
ALS Vial : 16 Sample Multiplier: 1

Integration File: RTEINTVB.P

Method : I:\MS13\METHODS\C13022823.M
Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
Last Update : Wed Mar 01 07:58:55 2023



AutoFind: Scans 2418, 2419, 2420; Background Corrected with Scan 2408

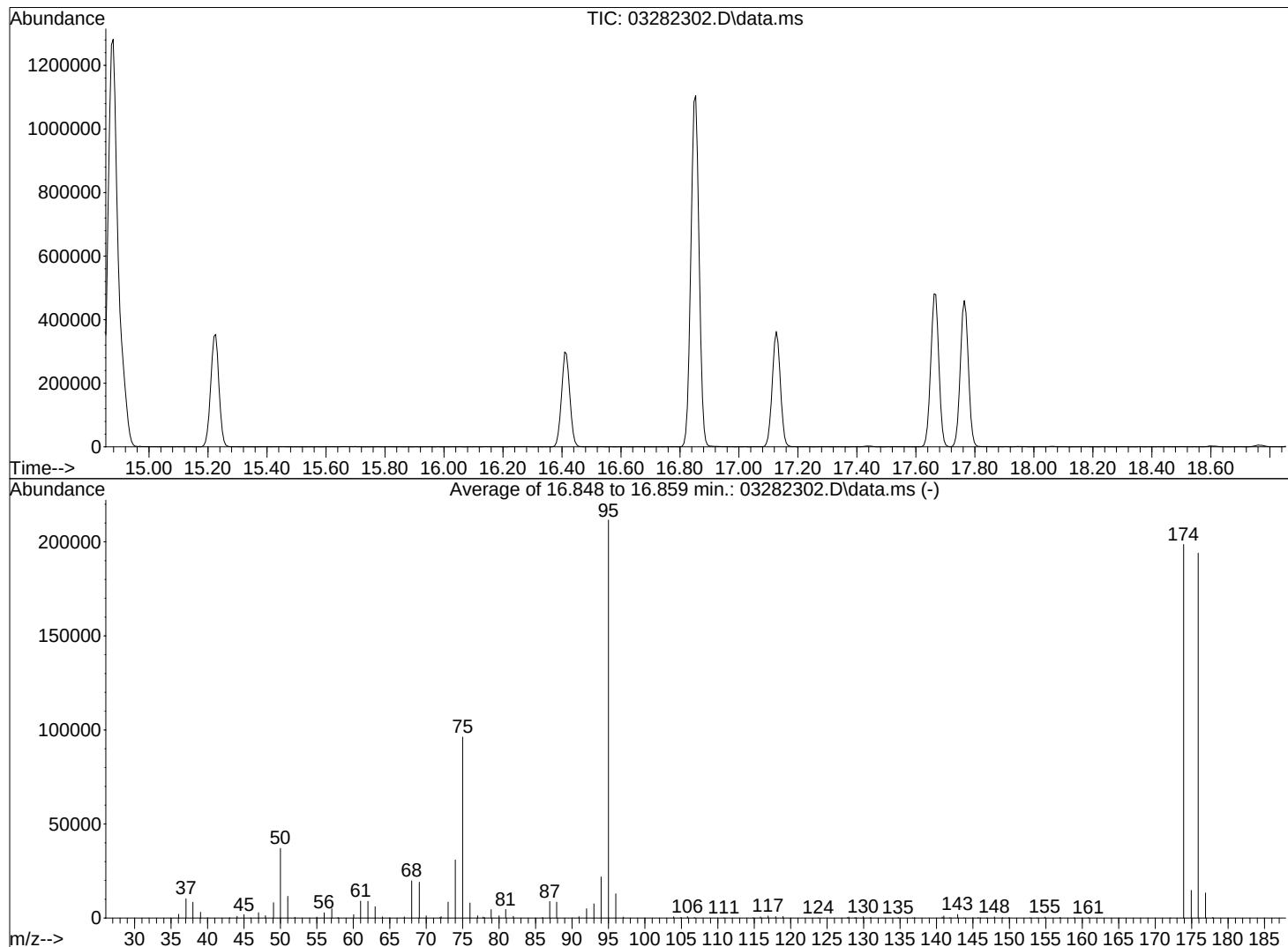
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.2	37019	PASS
75	95	30	66	45.1	97000	PASS
95	95	100	100	100.0	214912	PASS
96	95	5	9	6.4	13704	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	93.6	201173	PASS
175	174	4	9	7.2	14480	PASS
176	174	93	101	97.2	195541	PASS
177	176	5	9	6.4	12420	PASS

T2 3/27/23

Data Path : I:\MS13\DATA\2023_03\28\
 Data File : 03282302.D
 Acq On : 28 Mar 2023 3:38
 Operator : TZ
 Sample : CCV C13032823 5.0ng
 Misc : S35-01202301/S35-02282306 (3/30)
 ALS Vial : 16 Sample Multiplier: 1

Integration File: RTEINTVB.P

Method : I:\MS13\METHODS\C13022823.M
 Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 Last Update : Wed Mar 01 07:58:55 2023



AutoFind: Scans 2418, 2419, 2420; Background Corrected with Scan 2407

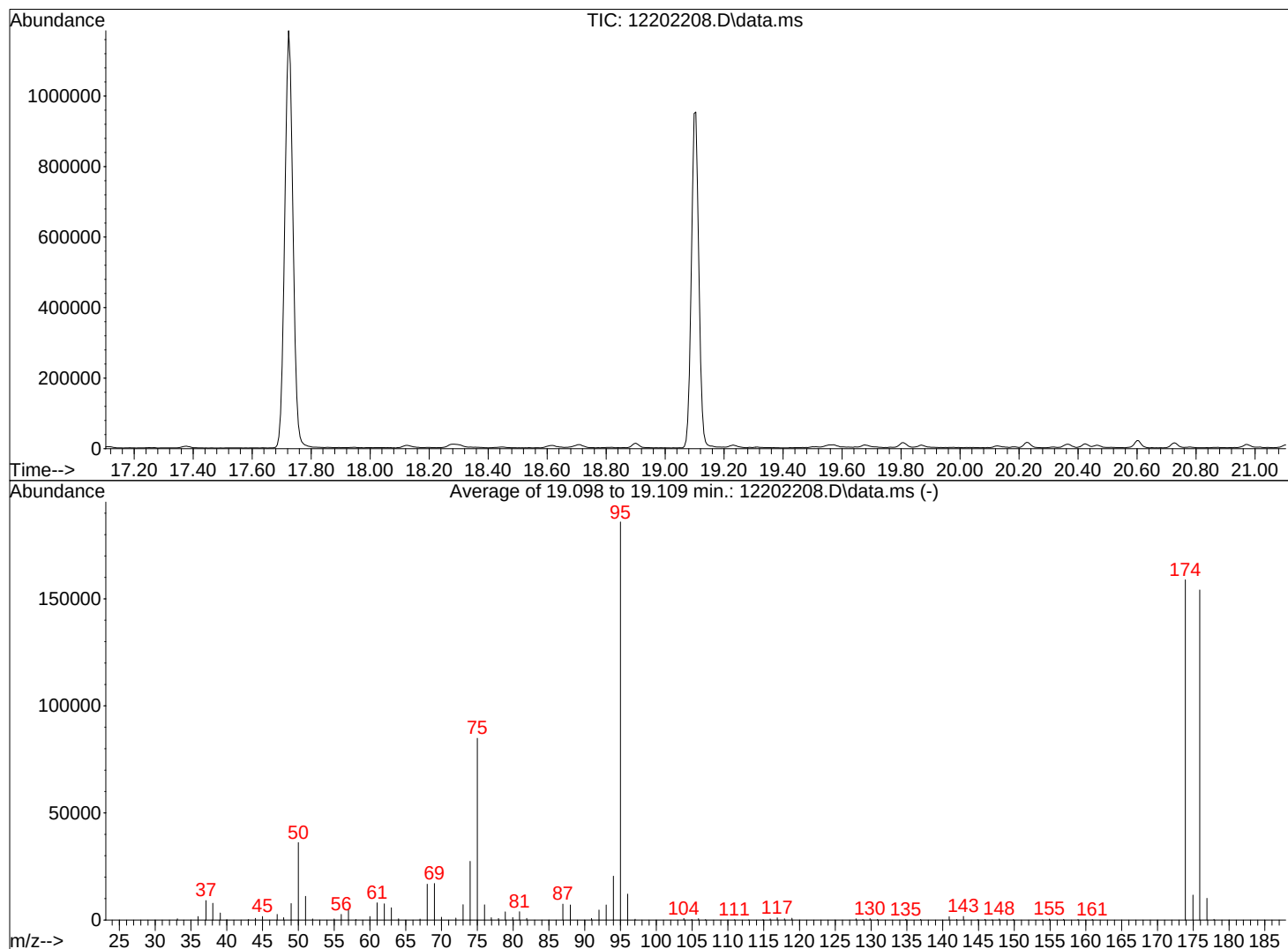
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.5	37067	PASS
75	95	30	66	45.5	96211	PASS
95	95	100	100	100.0	211563	PASS
96	95	5	9	6.1	12874	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	93.9	198592	PASS
175	174	4	9	7.4	14665	PASS
176	174	93	101	97.7	194005	PASS
177	176	5	9	6.9	13339	PASS

TZ 3/28/23

Data Path : I:\MS16\DATA\2022_12\20\
 Data File : 12202208.D
 Acq On : 20 Dec 2022 16:44
 Operator : WA
 Sample : BFB
 Misc : S35-11092201
 ALS Vial : 2 Sample Multiplier: 1

Integration File: LSCINT.P

Method : I:\MS16\METHODS\R16122022.M
 Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
 Last Update : Wed Dec 21 03:06:38 2022



AutoFind: Scans 2839, 2840, 2841; Background Corrected with Scan 2831

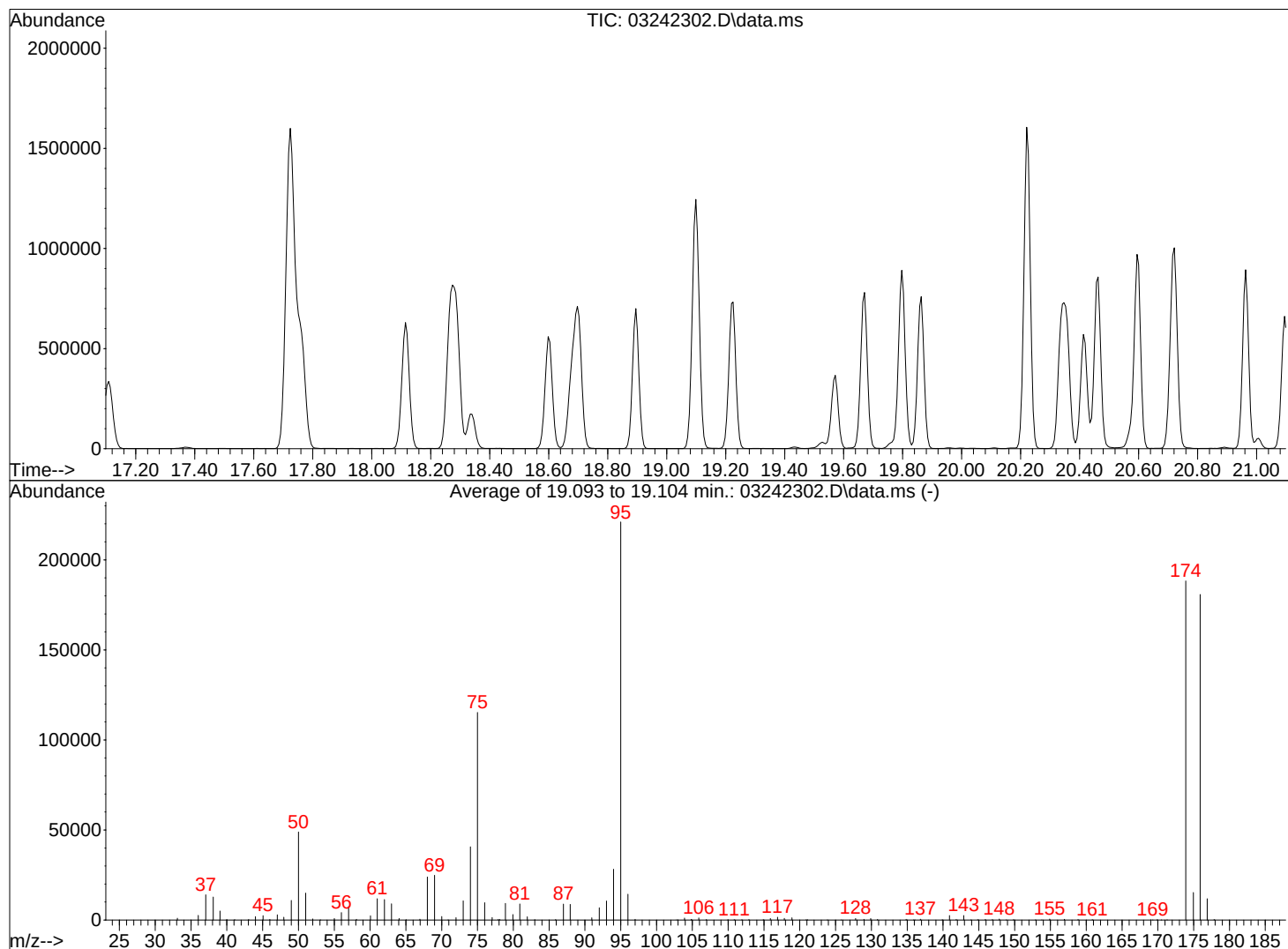
WA 12/21/22

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.4	36139	PASS
75	95	30	66	45.6	84845	PASS
95	95	100	100	100.0	185941	PASS
96	95	5	9	6.5	12103	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	85.5	158891	PASS
175	174	4	9	7.3	11618	PASS
176	174	93	101	97.0	154155	PASS
177	176	5	9	6.6	10129	PASS

Data Path : I:\MS16\DATA\2023_03\24\
 Data File : 03242302.D
 Acq On : 24 Mar 2023 5:38
 Operator : WA
 Sample : CCV R16032423_5ng
 Misc : S35-01312301/S37-03012302 (3/31)
 ALS Vial : 2 Sample Multiplier: 1

Integration File: LSCINT.P

Method : I:\MS16\METHODS\R16122022.M
 Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
 Last Update : Wed Dec 21 03:06:38 2022



AutoFind: Scans 2838, 2839, 2840; Background Corrected with Scan 2830

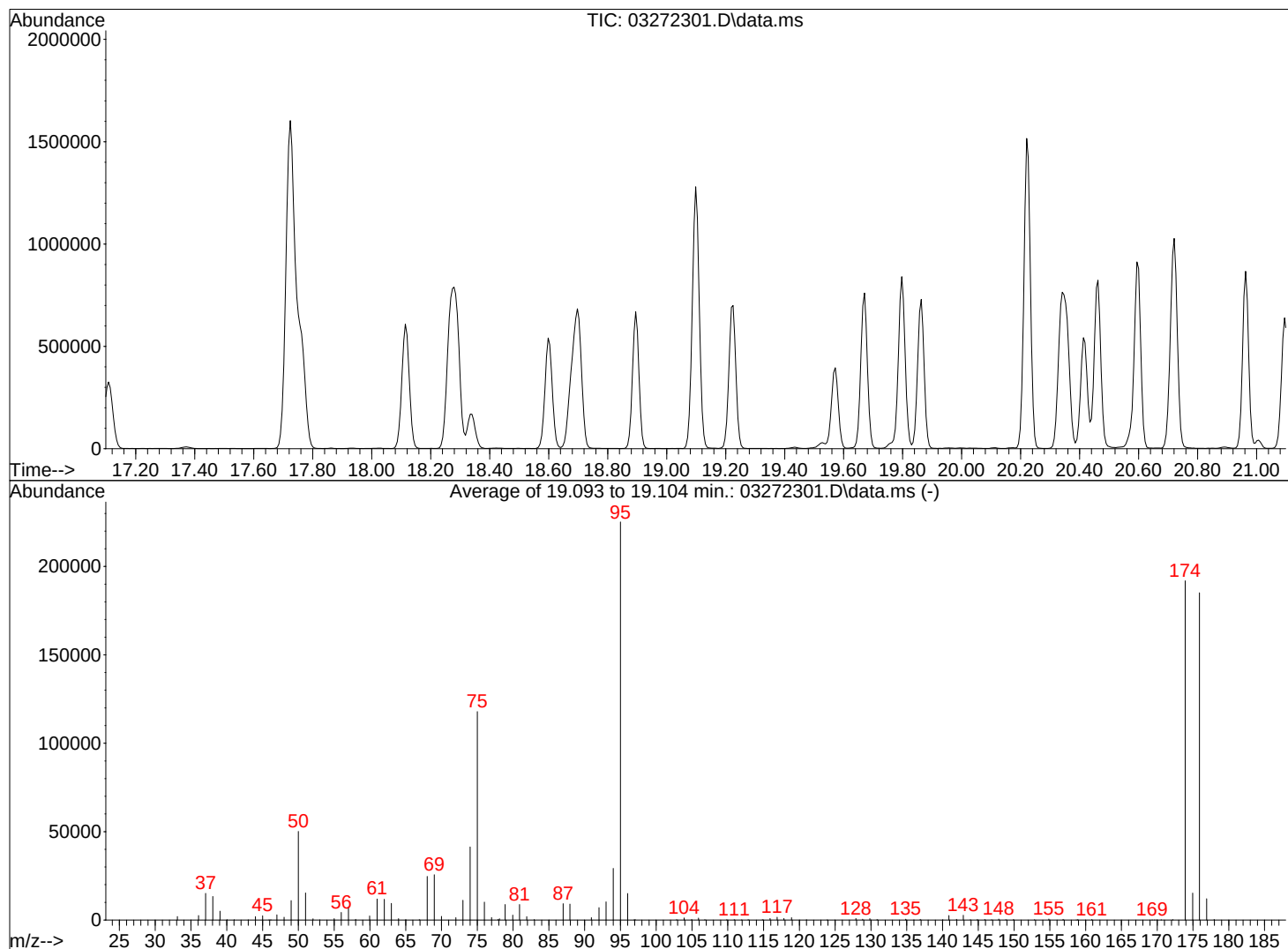
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.1	48893	PASS
75	95	30	66	52.1	115280	PASS
95	95	100	100	100.0	221056	PASS
96	95	5	9	6.5	14382	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	85.2	188331	PASS
175	174	4	9	8.1	15289	PASS
176	174	93	101	96.0	180779	PASS
177	176	5	9	6.5	11805	PASS

IDA 3/24/23

Data Path : I:\MS16\DATA\2023_03\27\
 Data File : 03272301.D
 Acq On : 27 Mar 2023 4:21
 Operator : WA
 Sample : CCV R1603273_5ng
 Misc : S35-01312301/S37-03012302 (3/31)
 ALS Vial : 2 Sample Multiplier: 1

Integration File: LSCINT.P

Method : I:\MS16\METHODS\R16122022.M
 Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
 Last Update : Wed Dec 21 03:06:38 2022



AutoFind: Scans 2838, 2839, 2840; Background Corrected with Scan 2830

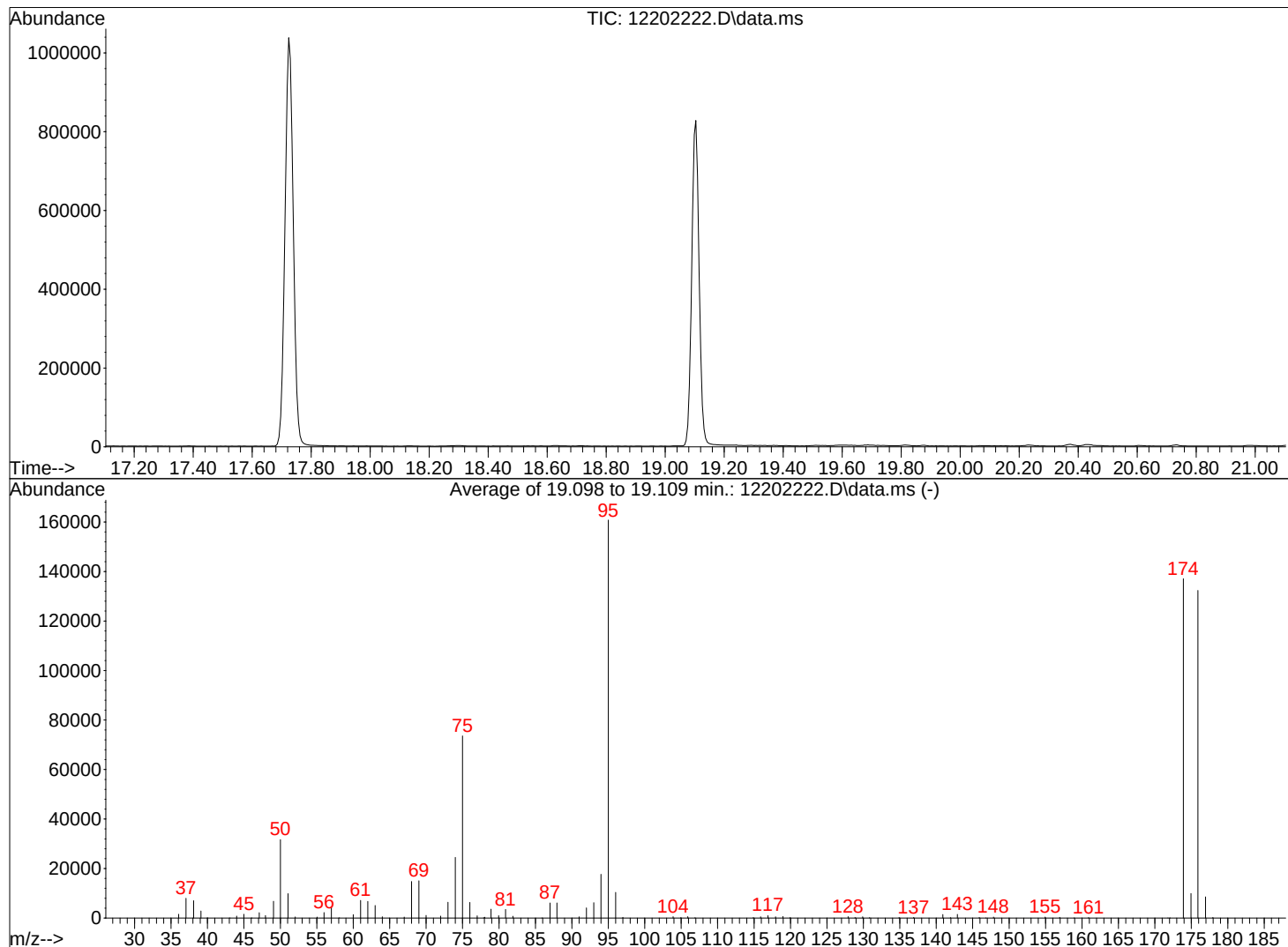
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.3	50168	PASS
75	95	30	66	52.4	117915	PASS
95	95	100	100	100.0	225173	PASS
96	95	5	9	6.7	14992	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	85.2	191872	PASS
175	174	4	9	8.0	15271	PASS
176	174	93	101	96.5	185109	PASS
177	176	5	9	6.5	12060	PASS

WA 3/27/23

Data Path : I:\MS16\DATA\2022_12\20\
 Data File : 12202222.D
 Acq On : 21 Dec 2022 00:38
 Operator : WA
 Sample : BFB
 Misc : S35-11092201
 ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINTVB.P

Method : I:\MS16\METHODS\C16122022.M
 Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 Last Update : Wed Dec 21 05:02:49 2022



AutoFind: Scans 2839, 2840, 2841; Background Corrected with Scan 2830

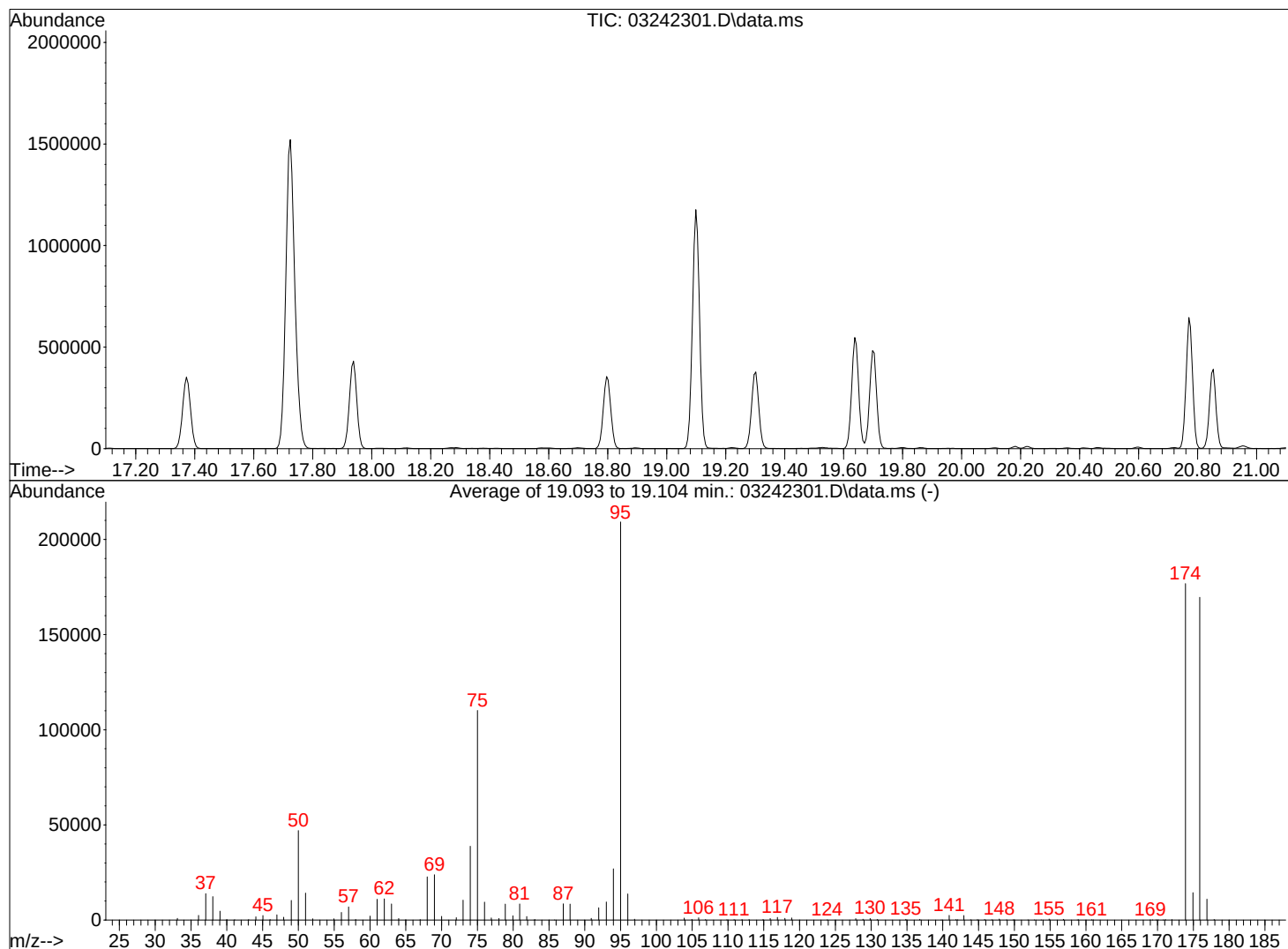
107 1/4/23

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.7	31677	PASS
75	95	30	66	45.8	73584	PASS
95	95	100	100	100.0	160789	PASS
96	95	5	9	6.4	10356	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	85.2	137069	PASS
175	174	4	9	7.2	9936	PASS
176	174	93	101	96.6	132344	PASS
177	176	5	9	6.4	8532	PASS

Data Path : I:\MS16\DATA\2023_03\24\
 Data File : 03242301.D
 Acq On : 24 Mar 2023 5:04
 Operator : WA
 Sample : CCV C16032423_5ng
 Misc : S35-01312301/S35-02282307 (3/30)
 ALS Vial : 16 Sample Multiplier: 1

Integration File: RTEINTVB.P

Method : I:\MS16\METHODS\C16122022.M
 Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 Last Update : Wed Dec 21 05:02:49 2022



AutoFind: Scans 2838, 2839, 2840; Background Corrected with Scan 2829

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.5	47005	PASS
75	95	30	66	52.6	110141	PASS
95	95	100	100	100.0	209216	PASS
96	95	5	9	6.6	13723	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	84.5	176832	PASS
175	174	4	9	8.2	14431	PASS
176	174	93	101	95.9	169600	PASS
177	176	5	9	6.5	10962	PASS

WA 3/24/23

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: Method Blank

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P230323-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 3/23/23

Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.53	0.087	ND	0.11	0.018	
74-87-3	Chloromethane	ND	0.21	0.086	ND	0.10	0.042	
75-01-4	Vinyl Chloride	ND	0.11	0.057	ND	0.043	0.022	
74-83-9	Bromomethane	ND	0.21	0.074	ND	0.054	0.019	
75-00-3	Chloroethane	ND	0.21	0.066	ND	0.080	0.025	
67-64-1	Acetone	ND	5.3	1.2	ND	2.2	0.51	
75-69-4	Trichlorofluoromethane	ND	0.52	0.081	ND	0.093	0.014	
75-35-4	1,1-Dichloroethene	ND	0.11	0.074	ND	0.028	0.019	
75-09-2	Methylene Chloride	ND	0.53	0.15	ND	0.15	0.043	
76-13-1	Trichlorotrifluoroethane	ND	0.54	0.076	ND	0.070	0.0099	
75-15-0	Carbon Disulfide	ND	1.1	0.16	ND	0.34	0.051	
156-60-5	trans-1,2-Dichloroethene	ND	0.11	0.074	ND	0.028	0.019	
75-34-3	1,1-Dichloroethane	ND	0.11	0.078	ND	0.027	0.019	
1634-04-4	Methyl tert-Butyl Ether	ND	0.54	0.063	ND	0.15	0.017	
78-93-3	2-Butanone (MEK)	ND	1.0	0.11	ND	0.35	0.037	
156-59-2	cis-1,2-Dichloroethene	ND	0.11	0.075	ND	0.028	0.019	
67-66-3	Chloroform	ND	0.11	0.071	ND	0.023	0.015	
107-06-2	1,2-Dichloroethane	ND	0.11	0.059	ND	0.027	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.11	0.066	ND	0.020	0.012	
71-43-2	Benzene	ND	0.11	0.077	ND	0.034	0.024	
56-23-5	Carbon Tetrachloride	ND	0.11	0.074	ND	0.017	0.012	
110-82-7	Cyclohexane	ND	1.1	0.15	ND	0.31	0.044	
78-87-5	1,2-Dichloropropane	ND	0.11	0.066	ND	0.024	0.014	
75-27-4	Bromodichloromethane	ND	0.11	0.077	ND	0.016	0.011	
79-01-6	Trichloroethene	ND	0.11	0.072	ND	0.020	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: Method Blank

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P230323-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 3/23/23

Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.54	0.083	ND	0.12	0.018	
108-10-1	4-Methyl-2-pentanone	ND	1.1	0.073	ND	0.27	0.018	
10061-02-6	trans-1,3-Dichloropropene	ND	0.51	0.11	ND	0.11	0.024	
79-00-5	1,1,2-Trichloroethane	ND	0.11	0.054	ND	0.020	0.0099	
108-88-3	Toluene	ND	0.53	0.065	ND	0.14	0.017	
591-78-6	2-Hexanone	ND	1.1	0.066	ND	0.27	0.016	
124-48-1	Dibromochloromethane	ND	0.11	0.070	ND	0.013	0.0082	
106-93-4	1,2-Dibromoethane	ND	0.11	0.062	ND	0.014	0.0081	
127-18-4	Tetrachloroethene	ND	0.11	0.069	ND	0.016	0.010	
108-90-7	Chlorobenzene	ND	0.53	0.071	ND	0.12	0.015	
100-41-4	Ethylbenzene	ND	0.53	0.075	ND	0.12	0.017	
179601-23-1	m,p-Xylenes	ND	1.1	0.14	ND	0.25	0.032	
75-25-2	Bromoform	ND	0.54	0.11	ND	0.052	0.011	
100-42-5	Styrene	ND	0.53	0.086	ND	0.12	0.020	
95-47-6	o-Xylene	ND	0.53	0.077	ND	0.12	0.018	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.11	0.074	ND	0.016	0.011	
98-82-8	Cumene	ND	0.54	0.077	ND	0.11	0.016	
541-73-1	1,3-Dichlorobenzene	ND	0.53	0.080	ND	0.088	0.013	
106-46-7	1,4-Dichlorobenzene	ND	0.53	0.082	ND	0.088	0.014	
95-50-1	1,2-Dichlorobenzene	ND	0.54	0.079	ND	0.090	0.013	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	0.10	ND	0.11	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.13	ND	0.15	0.018	
79-20-9	Methyl Acetate	ND	0.50	0.24	ND	0.17	0.079	X
108-87-2	Methylcyclohexane	ND	0.50	0.26	ND	0.12	0.065	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

X = See case narrative.

Data File : I:\MS13\DATA\2023_03\23\03232303.D
 Acq On : 23 Mar 2023 2:13
 Sample : MB R13032323 1000mL
 Misc : S35-01202301_AS01837

Vial: 1
 Operator: TZ
 Inst : MS13

TZ 3/23/23

Quant Time: Mar 23 08:06:30 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.31	130	231707	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	9.37	114	1024202	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.88	54	183901	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	389311	12.661	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	101.28%
57) Toluene-d8 (SS2)	12.48	98	1158235	12.247	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	98.00%
73) Bromofluorobenzene (SS3)	16.85	174	412005	11.894	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	95.12%

Target Compounds

						Qvalue
2) Propene	3.43	42	419	N.D.		
3) Dichlorodifluoromethan...	0.00	85	0	N.D.		
4) Chloromethane	0.00	50	0	N.D.	d	
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	4.41	45	7406	0.450	ng	93
11) Acetonitrile	4.58	41	886	N.D.		
12) Acrolein	4.66	56	365	N.D.		
13) Acetone	4.78	58	3097	0.221	ng	94
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) 2-Propanol (Isopropanol)	4.98	45	4332	0.076	ng	99
16) Acrylonitrile	5.11	53	80	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.		
19) Methylene Chloride	5.45	84	436	N.D.		
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	5.73	76	5060	0.062	ng	98
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone (MEK)	0.00	72	0	N.D.		
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	0.00	57	0	N.D.		
32) Chloroform	0.00	83	0	N.D.		
34) Tetrahydrofuran (THF)	7.88	72	223	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.09	62	183	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	9.37	61	28576	No Calib		
40) 1-Butanol	8.95	56	367	No Calib	#	
41) Benzene	8.98	78	787	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	9.36	84	732	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS13\DATA\2023_03\23\03232303.D
 Acq On : 23 Mar 2023 2:13
 Sample : MB R13032323 1000mL
 Misc : S35-01202301_AS01837

Vial: 1
 Operator: TZ
 Inst : MS13

Quant Time: Mar 23 08:06:30 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.61	91	4617	0.051	ng	92
59) 2-Hexanone	13.00	43	594	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.85	43	887	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	14.06	166	171	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	15.45	91	433	N.D.		
67) m- & p-Xylenes	15.67	91	2390	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	16.28	91	286	N.D.		
71) n-Nonane	0.00	43	0	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	0.00	105	0	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	17.77	91	1640	N.D.		
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.97	105	364	N.D.		
79) 1,3,5-Trimethylbenzene	18.07	105	148	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.62	105	426	N.D.		
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	18.77	91	1505	N.D.		
85) 1,3-Dichlorobenzene	18.78	146	465	N.D.		
86) 1,4-Dichlorobenzene	18.86	146	635	N.D.		
87) sec-Butylbenzene	18.95	105	325	N.D.		
88) 4-Isopropyltoluene (p-...	19.18	119	468	N.D.		
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.30	146	527	N.D.		
91) d-Limonene	0.00	68	0	N.D.		
92) 1,2-Dibromo-3-Chloropr...	19.86	157	615	N.D.		
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	21.43	180	3264	0.086	ng #	90
95) Naphthalene	21.55	128	4425	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	21.99	225	554	N.D.		
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	0.00	119	0	N.D.		
100) n-Butylbenzene	19.72	91	439	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\23\03232303.D
Acq On : 23 Mar 2023 2:13
Sample : MB R13032323 1000mL
Misc : S35-01202301_AS01837

Vial: 1
Operator: TZ
Inst : MS13

Quant Time: Mar 23 08:06:30 2023

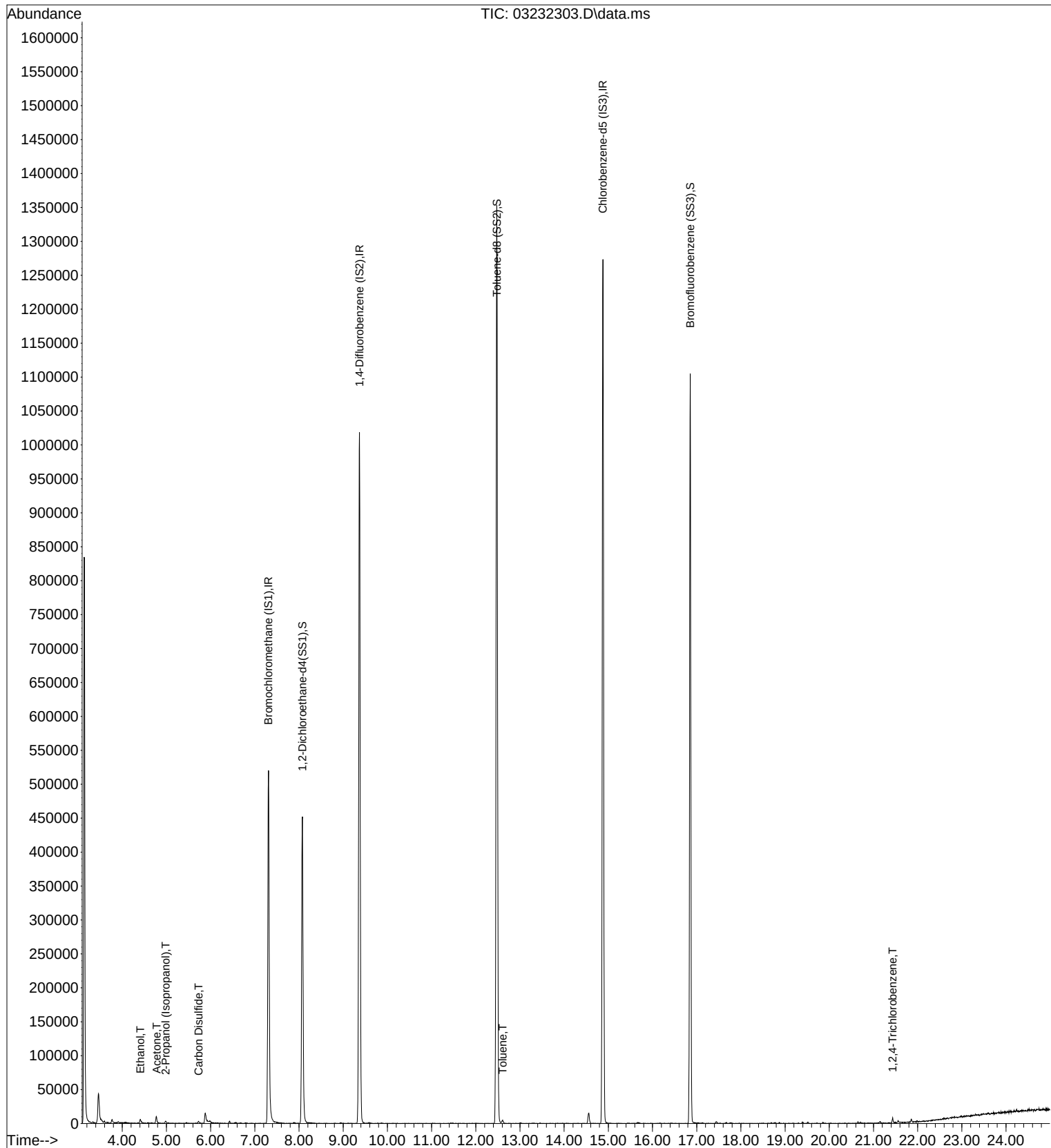
Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\23\03232303.D
 Acq On : 23 Mar 2023 2:13
 Sample : MB R13032323 1000mL
 Misc : S35-01202301_AS01837

Vial: 1
 Operator: TZ
 Inst : MS13

Tz 3/23/23

Quant Time: Mar 23 09:01:56 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.31	130	234046	12.500	ng	-0.01
16) 1,4-Difluorobenzene (C_2)	9.37	114	1025104	12.500	ng	-0.01
19) Chlorobenzene-d5 (C_3)	14.88	54	183901	12.500	ng	0.00

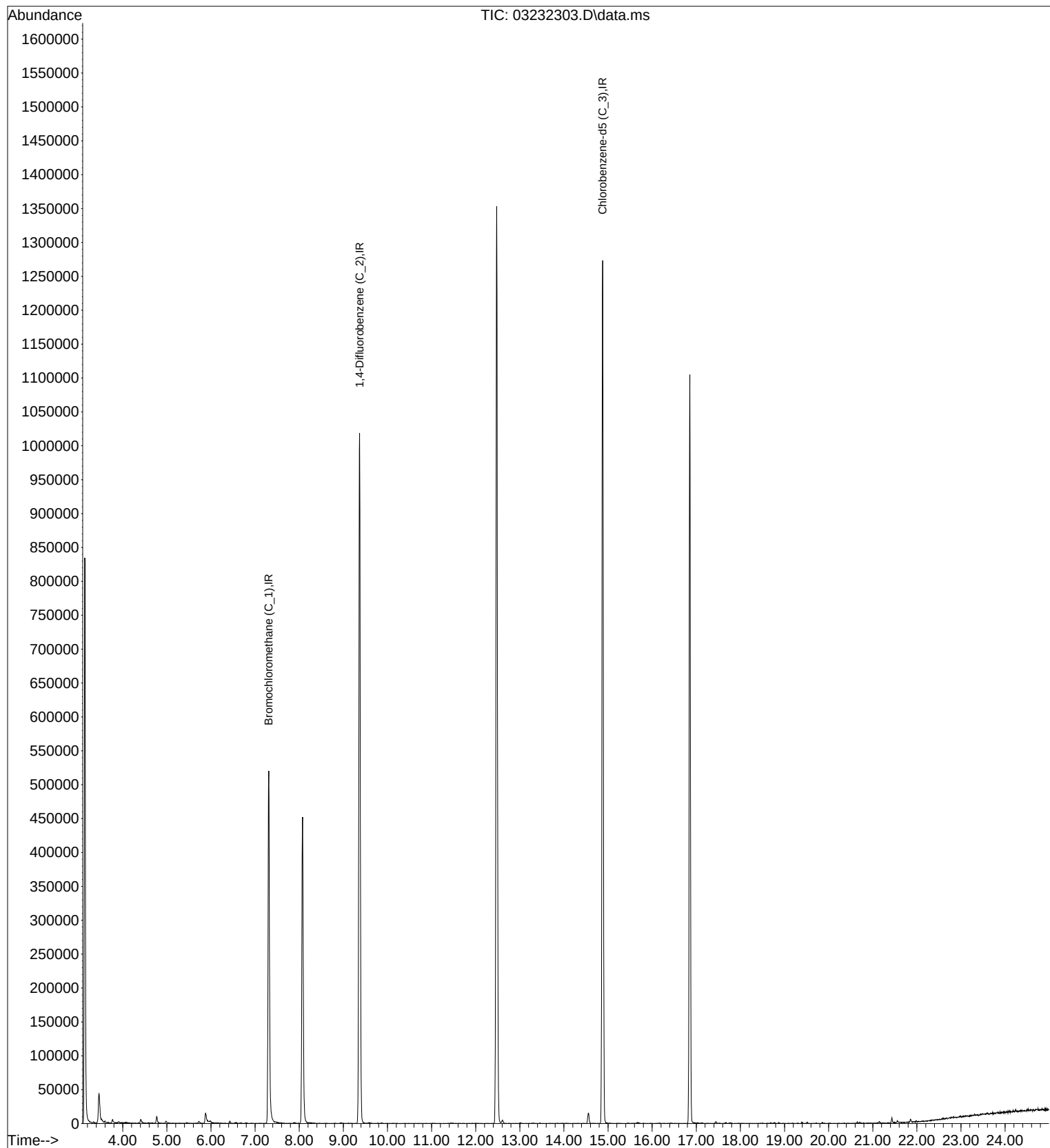
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.27	85	526	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.32	83	180	N.D.		
4) 1,1-Difluoroethane	3.37	65	158	N.D.		
5) Chlorodifluoromethane ...	0.00	67	0	N.D.		
6) 1-Chloro-1,1-Difluoroe...	3.64	65	718	N.D.		
7) Dichlorofluoromethane ...	4.36	67	590	N.D.		
8) Vinylbromide	4.57	108	62	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	4.66	83	147	N.D.		
10) 2-Methylbutane	4.77	57	544	N.D.		
11) Methyl Acetate	5.45	43	708	N.D.		
12) 2-Methylpentane	0.00	71	0	N.D.		
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	8.81	75	135	N.D.		
15) Thiophene	9.11	84	293	N.D.		
17) 2,3-Dimethylpentane	9.58	56	221	N.D.		
18) Dibromomethane	9.88	174	458	N.D.		
20) Methyl Cyclohexane	11.47	55	408	N.D.		
21) 1,3-Dichloropropane	12.63	76	233	N.D.		
22) 1,1,1,2-Tetrachloroethane	14.92	131	54	N.D.		
23) 1-Chlorohexane	15.23	91	107	N.D.		
24) 1,2,3-Trichloropropane	16.42	75	600	N.D.		
25) Bromobenzene	17.13	77	588	N.D.		
26) 2-Chlorotoluene	17.67	91	1213	N.D.		
27) 4-Chlorotoluene	17.67	91	1213	N.D.		
28) Indane	19.39	117	1581	N.D.		
29) Indene	19.52	115	1412	N.D.		
30) 1,2,4,5-Tetramethylben...	20.65	119	1658	N.D.		
31) 1,2,3,4-Tetramethylben...	20.70	119	2266	N.D.		
32) 1,2,3,5-Tetramethylben...	21.15	119	1884	N.D.		
33) 1,2,3-Trichlorobenzene	21.86	180	2148	N.D.		

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

Data File : I:\MS13\DATA\2023_03\23\03232303.D
Acq On : 23 Mar 2023 2:13
Sample : MB R13032323 1000mL
Misc : S35-01202301_AS01837

Vial: 1
Operator: TZ
Inst : MS13

Quant Time: Mar 23 09:01:56 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: Method Blank

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P230324-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.53	0.087	ND	0.11	0.018	
74-87-3	Chloromethane	ND	0.21	0.086	ND	0.10	0.042	
75-01-4	Vinyl Chloride	ND	0.11	0.057	ND	0.043	0.022	
74-83-9	Bromomethane	ND	0.21	0.074	ND	0.054	0.019	
75-00-3	Chloroethane	ND	0.21	0.066	ND	0.080	0.025	
67-64-1	Acetone	ND	5.3	1.2	ND	2.2	0.51	
75-69-4	Trichlorofluoromethane	ND	0.52	0.081	ND	0.093	0.014	
75-35-4	1,1-Dichloroethene	ND	0.11	0.074	ND	0.028	0.019	
75-09-2	Methylene Chloride	ND	0.53	0.15	ND	0.15	0.043	
76-13-1	Trichlorotrifluoroethane	ND	0.54	0.076	ND	0.070	0.0099	
75-15-0	Carbon Disulfide	ND	1.1	0.16	ND	0.34	0.051	
156-60-5	trans-1,2-Dichloroethene	ND	0.11	0.074	ND	0.028	0.019	
75-34-3	1,1-Dichloroethane	ND	0.11	0.078	ND	0.027	0.019	
1634-04-4	Methyl tert-Butyl Ether	ND	0.54	0.063	ND	0.15	0.017	
78-93-3	2-Butanone (MEK)	ND	1.0	0.11	ND	0.35	0.037	
156-59-2	cis-1,2-Dichloroethene	ND	0.11	0.075	ND	0.028	0.019	
67-66-3	Chloroform	ND	0.11	0.071	ND	0.023	0.015	
107-06-2	1,2-Dichloroethane	ND	0.11	0.059	ND	0.027	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.11	0.066	ND	0.020	0.012	
71-43-2	Benzene	ND	0.11	0.077	ND	0.034	0.024	
56-23-5	Carbon Tetrachloride	ND	0.11	0.074	ND	0.017	0.012	
110-82-7	Cyclohexane	ND	1.1	0.15	ND	0.31	0.044	
78-87-5	1,2-Dichloropropane	ND	0.11	0.066	ND	0.024	0.014	
75-27-4	Bromodichloromethane	ND	0.11	0.077	ND	0.016	0.011	
79-01-6	Trichloroethene	ND	0.11	0.072	ND	0.020	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: Method Blank

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P230324-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.54	0.083	ND	0.12	0.018	
108-10-1	4-Methyl-2-pentanone	ND	1.1	0.073	ND	0.27	0.018	
10061-02-6	trans-1,3-Dichloropropene	ND	0.51	0.11	ND	0.11	0.024	
79-00-5	1,1,2-Trichloroethane	ND	0.11	0.054	ND	0.020	0.0099	
108-88-3	Toluene	ND	0.53	0.065	ND	0.14	0.017	
591-78-6	2-Hexanone	ND	1.1	0.066	ND	0.27	0.016	
124-48-1	Dibromochloromethane	ND	0.11	0.070	ND	0.013	0.0082	
106-93-4	1,2-Dibromoethane	ND	0.11	0.062	ND	0.014	0.0081	
127-18-4	Tetrachloroethene	ND	0.11	0.069	ND	0.016	0.010	
108-90-7	Chlorobenzene	ND	0.53	0.071	ND	0.12	0.015	
100-41-4	Ethylbenzene	ND	0.53	0.075	ND	0.12	0.017	
179601-23-1	m,p-Xylenes	ND	1.1	0.14	ND	0.25	0.032	
75-25-2	Bromoform	ND	0.54	0.11	ND	0.052	0.011	
100-42-5	Styrene	ND	0.53	0.086	ND	0.12	0.020	
95-47-6	o-Xylene	ND	0.53	0.077	ND	0.12	0.018	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.11	0.074	ND	0.016	0.011	
98-82-8	Cumene	ND	0.54	0.077	ND	0.11	0.016	
541-73-1	1,3-Dichlorobenzene	ND	0.53	0.080	ND	0.088	0.013	
106-46-7	1,4-Dichlorobenzene	ND	0.53	0.082	ND	0.088	0.014	
95-50-1	1,2-Dichlorobenzene	ND	0.54	0.079	ND	0.090	0.013	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	0.10	ND	0.11	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.13	ND	0.15	0.018	
79-20-9	Methyl Acetate	ND	0.50	0.24	ND	0.17	0.079	X
108-87-2	Methylcyclohexane	ND	0.50	0.26	ND	0.12	0.065	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

X = See case narrative.

Data File : I:\MS13\DATA\2023_03\24\03242303.D
 Acq On : 24 Mar 2023 3:11
 Sample : MB R13032423 1000mL
 Misc : S35-01202301_AS01837

Vial: 1
 Operator: TZ
 Inst : MS13

Tz 3/24/23

Quant Time: Mar 24 07:43:40 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	233321	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.37	114	1028417	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.88	54	187025	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	394763	12.749	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.00%
57) Toluene-d8 (SS2)	12.48	98	1157851	12.038	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	96.32%
73) Bromofluorobenzene (SS3)	16.85	174	411746	11.688	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.52%

Target Compounds

						Qvalue
2) Propene	3.44	42	731	N.D.		
3) Dichlorodifluoromethan...	0.00	85	0	N.D.		
4) Chloromethane	3.64	50	108	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	4.43	45	3070	0.185	ng	90
11) Acetonitrile	4.60	41	1256	N.D.		
12) Acrolein	4.68	56	197	N.D.		
13) Acetone	4.78	58	3329	0.235	ng	94
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) 2-Propanol (Isopropanol)	4.98	45	4551	0.080	ng	91
16) Acrylonitrile	5.13	53	464	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	5.47	59	53	N.D.		
19) Methylene Chloride	5.47	84	372	N.D.		
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	5.73	76	5043	0.061	ng	96
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone (MEK)	6.68	72	127	N.D.		
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	0.00	57	0	N.D.		
32) Chloroform	0.00	83	0	N.D.		
34) Tetrahydrofuran (THF)	7.90	72	371	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	9.37	61	28599	No Calib		
40) 1-Butanol	8.93	56	817	No Calib	#	
41) Benzene	8.98	78	823	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	9.37	84	679	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	10.24	88	146	N.D.		
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS13\DATA\2023_03\24\03242303.D
 Acq On : 24 Mar 2023 3:11
 Sample : MB R13032423 1000mL
 Misc : S35-01202301_AS01837

Vial: 1
 Operator: TZ
 Inst : MS13

Quant Time: Mar 24 07:43:40 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

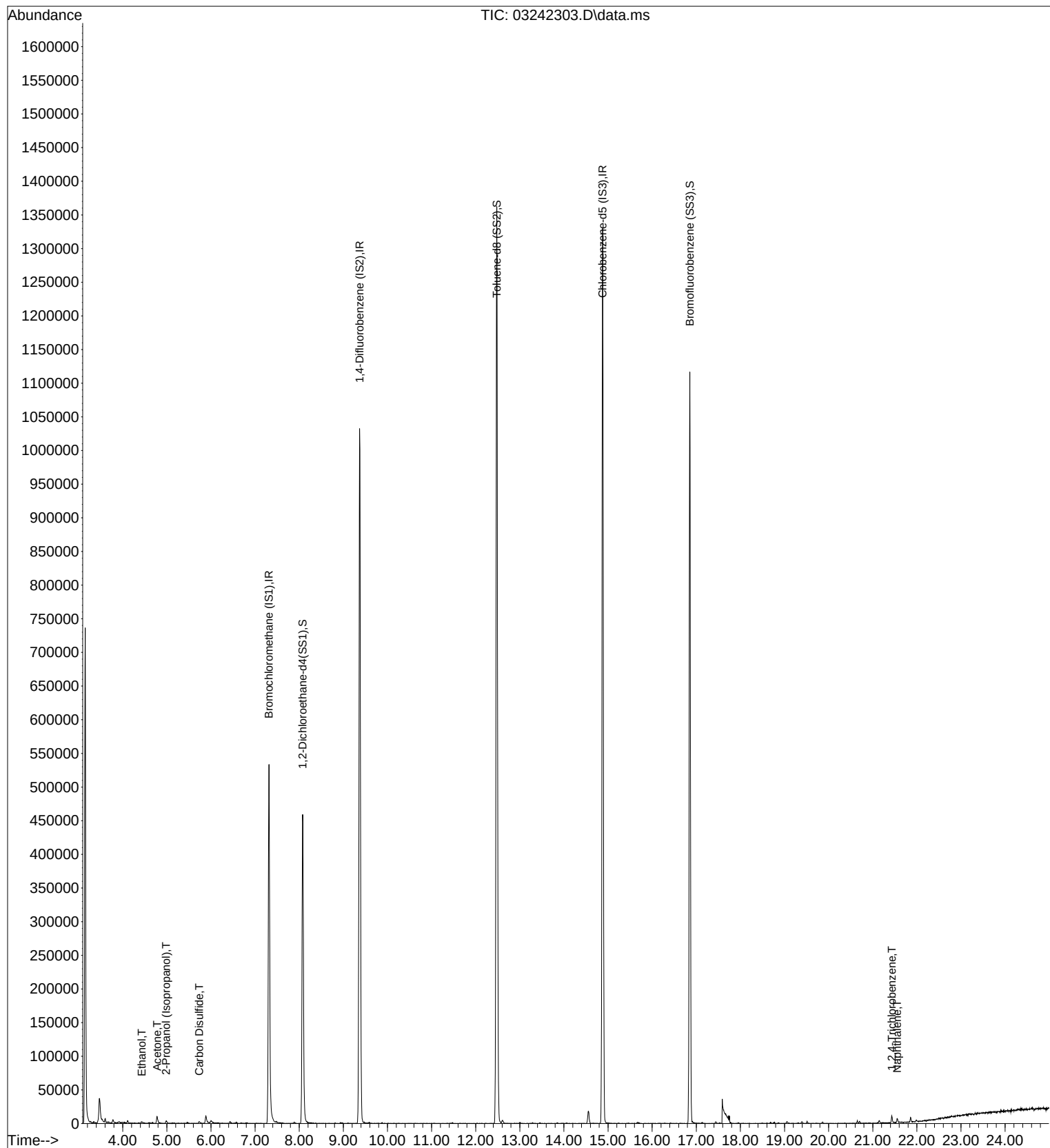
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.61	91	4474	N.D.		
59) 2-Hexanone	12.99	43	1377	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.85	43	1073	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	14.06	166	135	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	15.44	91	404	N.D.		
67) m- & p-Xylenes	15.67	91	2251	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	16.29	91	755	N.D.		
71) n-Nonane	0.00	43	0	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	17.06	105	262	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	17.77	91	2082	N.D.		
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	429	N.D.		
79) 1,3,5-Trimethylbenzene	18.07	105	362	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.61	105	351	N.D.		
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	18.76	91	1783	N.D.		
85) 1,3-Dichlorobenzene	18.78	146	383	N.D.		
86) 1,4-Dichlorobenzene	18.87	146	726	N.D.		
87) sec-Butylbenzene	18.96	105	237	N.D.		
88) 4-Isopropyltoluene (p-...	19.19	119	488	N.D.		
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.30	146	647	N.D.		
91) d-Limonene	0.00	68	0	N.D.		
92) 1,2-Dibromo-3-Chloropr...	19.86	157	810	N.D.		
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	21.43	180	4068	0.106 ng		96
95) Naphthalene	21.55	128	7313	0.079 ng		92
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	21.99	225	714	N.D.		
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	18.59	119	221	N.D.		
100) n-Butylbenzene	19.72	91	523	N.D.		
101) 1,1,1,2-Tetrachloroethane	14.91	131	139	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242303.D
Acq On : 24 Mar 2023 3:11
Sample : MB R13032423 1000mL
Misc : S35-01202301_AS01837

Vial: 1
Operator: TZ
Inst : MS13

Quant Time: Mar 24 07:43:40 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242303.D
 Acq On : 24 Mar 2023 3:11
 Sample : MB R13032423 1000mL
 Misc : S35-01202301_AS01837

Vial: 1
 Operator: TZ
 Inst : MS13

TZ 3/24/23

Quant Time: Mar 24 09:13:49 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.32	130	233246	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	9.37	114	1030115	12.500	ng	-0.01
19) Chlorobenzene-d5 (C_3)	14.88	54	187025	12.500	ng	0.00

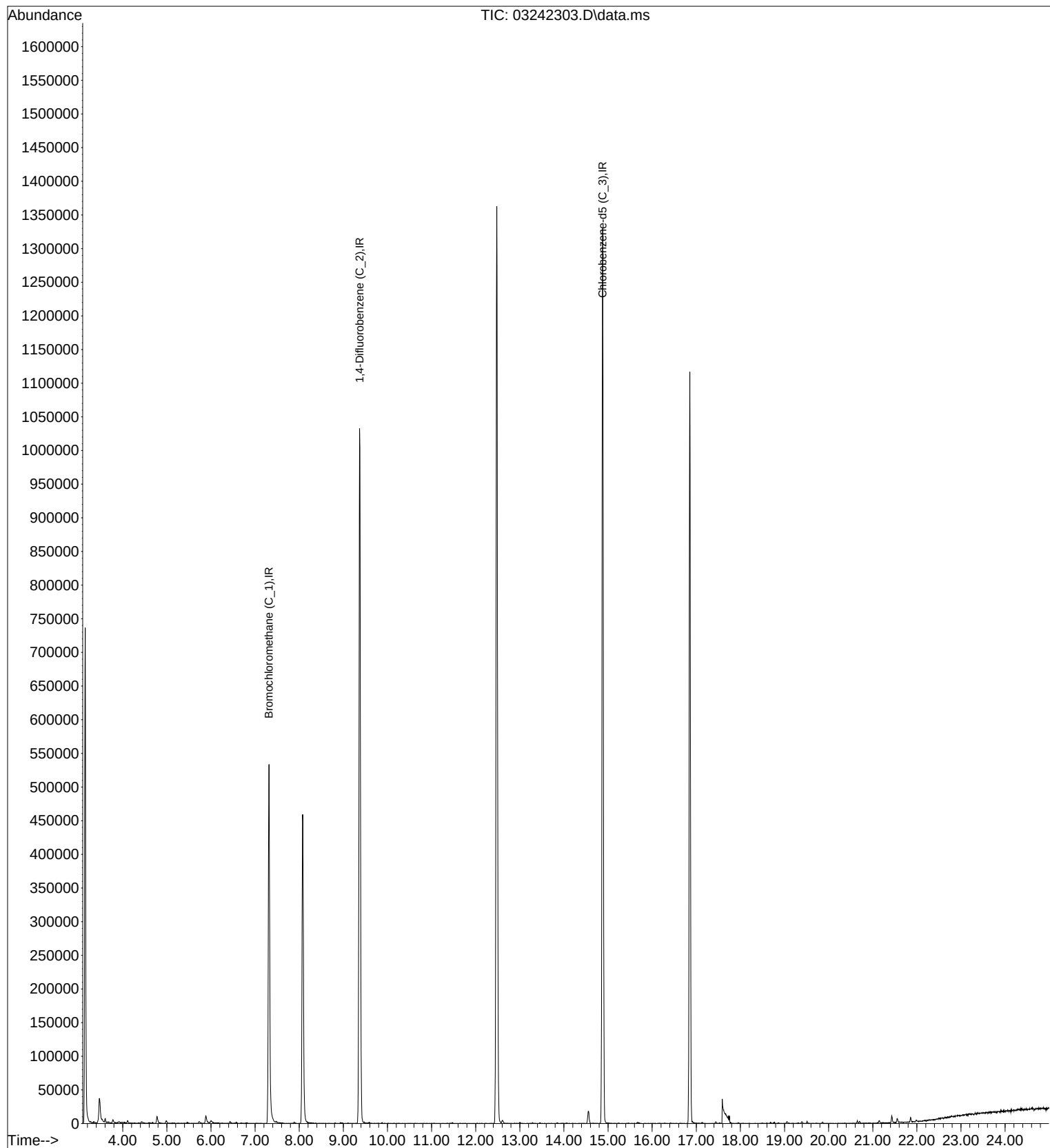
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.27	85	824	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.33	83	234	N.D.		
4) 1,1-Difluoroethane	3.38	65	250	N.D.		
5) Chlorodifluoromethane ...	0.00	67	0	N.D.		
6) 1-Chloro-1,1-Difluoroe...	3.64	65	699	N.D.		
7) Dichlorofluoromethane ...	4.37	67	836	N.D.		
8) Vinylbromide	4.58	108	173	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	4.67	83	494	N.D.		
10) 2-Methylbutane	4.78	57	523	N.D.		
11) Methyl Acetate	5.46	43	856	N.D.		
12) 2-Methylpentane	6.58	71	314	N.D.		
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	8.82	75	494	N.D.		
15) Thiophene	9.11	84	598	N.D.		
17) 2,3-Dimethylpentane	9.60	56	339	N.D.		
18) Dibromomethane	9.87	174	632	N.D.		
20) Methyl Cyclohexane	11.47	55	420	N.D.		
21) 1,3-Dichloropropane	12.63	76	317	N.D.		
22) 1,1,1,2-Tetrachloroethane	14.91	131	139	N.D.		
23) 1-Chlorohexane	15.24	91	209	N.D.		
24) 1,2,3-Trichloropropane	16.42	75	592	N.D.		
25) Bromobenzene	17.12	77	877	N.D.		
26) 2-Chlorotoluene	17.67	91	1441	N.D.		
27) 4-Chlorotoluene	17.67	91	1441	N.D.		
28) Indane	19.40	117	2040	N.D.		
29) Indene	19.51	115	1934	N.D.		
30) 1,2,4,5-Tetramethylben...	20.65	119	2176	N.D.		
31) 1,2,3,4-Tetramethylben...	20.69	119	2577	N.D.		
32) 1,2,3,5-Tetramethylben...	21.15	119	2807	N.D.		
33) 1,2,3-Trichlorobenzene	21.86	180	2776	N.D.		

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

Data File : I:\MS13\DATA\2023_03\24\03242303.D
Acq On : 24 Mar 2023 3:11
Sample : MB R13032423 1000mL
Misc : S35-01202301_AS01837

Vial: 1
Operator: TZ
Inst : MS13

Quant Time: Mar 24 09:13:49 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: Method Blank

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P230324-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.53	0.087	ND	0.11	0.018	
74-87-3	Chloromethane	ND	0.21	0.086	ND	0.10	0.042	
75-01-4	Vinyl Chloride	ND	0.11	0.057	ND	0.043	0.022	
74-83-9	Bromomethane	ND	0.21	0.074	ND	0.054	0.019	
75-00-3	Chloroethane	ND	0.21	0.066	ND	0.080	0.025	
67-64-1	Acetone	ND	5.3	1.2	ND	2.2	0.51	
75-69-4	Trichlorofluoromethane	ND	0.52	0.081	ND	0.093	0.014	
75-35-4	1,1-Dichloroethene	ND	0.11	0.074	ND	0.028	0.019	
75-09-2	Methylene Chloride	ND	0.53	0.15	ND	0.15	0.043	
76-13-1	Trichlorotrifluoroethane	ND	0.54	0.076	ND	0.070	0.0099	
75-15-0	Carbon Disulfide	ND	1.1	0.16	ND	0.34	0.051	
156-60-5	trans-1,2-Dichloroethene	ND	0.11	0.074	ND	0.028	0.019	
75-34-3	1,1-Dichloroethane	ND	0.11	0.078	ND	0.027	0.019	
1634-04-4	Methyl tert-Butyl Ether	ND	0.54	0.063	ND	0.15	0.017	
78-93-3	2-Butanone (MEK)	ND	1.0	0.11	ND	0.35	0.037	
156-59-2	cis-1,2-Dichloroethene	ND	0.11	0.075	ND	0.028	0.019	
67-66-3	Chloroform	ND	0.11	0.071	ND	0.023	0.015	
107-06-2	1,2-Dichloroethane	ND	0.11	0.059	ND	0.027	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.11	0.066	ND	0.020	0.012	
71-43-2	Benzene	ND	0.11	0.077	ND	0.034	0.024	
56-23-5	Carbon Tetrachloride	ND	0.11	0.074	ND	0.017	0.012	
110-82-7	Cyclohexane	ND	1.1	0.15	ND	0.31	0.044	
78-87-5	1,2-Dichloropropane	ND	0.11	0.066	ND	0.024	0.014	
75-27-4	Bromodichloromethane	ND	0.11	0.077	ND	0.016	0.011	
79-01-6	Trichloroethene	ND	0.11	0.072	ND	0.020	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: Method Blank

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P230324-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.54	0.083	ND	0.12	0.018	
108-10-1	4-Methyl-2-pentanone	ND	1.1	0.073	ND	0.27	0.018	
10061-02-6	trans-1,3-Dichloropropene	ND	0.51	0.11	ND	0.11	0.024	
79-00-5	1,1,2-Trichloroethane	ND	0.11	0.054	ND	0.020	0.0099	
108-88-3	Toluene	ND	0.53	0.065	ND	0.14	0.017	
591-78-6	2-Hexanone	ND	1.1	0.066	ND	0.27	0.016	
124-48-1	Dibromochloromethane	ND	0.11	0.070	ND	0.013	0.0082	
106-93-4	1,2-Dibromoethane	ND	0.11	0.062	ND	0.014	0.0081	
127-18-4	Tetrachloroethene	ND	0.11	0.069	ND	0.016	0.010	
108-90-7	Chlorobenzene	ND	0.53	0.071	ND	0.12	0.015	
100-41-4	Ethylbenzene	ND	0.53	0.075	ND	0.12	0.017	
179601-23-1	m,p-Xylenes	ND	1.1	0.14	ND	0.25	0.032	
75-25-2	Bromoform	ND	0.54	0.11	ND	0.052	0.011	
100-42-5	Styrene	ND	0.53	0.086	ND	0.12	0.020	
95-47-6	o-Xylene	ND	0.53	0.077	ND	0.12	0.018	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.11	0.074	ND	0.016	0.011	
98-82-8	Cumene	ND	0.54	0.077	ND	0.11	0.016	
541-73-1	1,3-Dichlorobenzene	ND	0.53	0.080	ND	0.088	0.013	
106-46-7	1,4-Dichlorobenzene	ND	0.53	0.082	ND	0.088	0.014	
95-50-1	1,2-Dichlorobenzene	ND	0.54	0.079	ND	0.090	0.013	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	0.10	ND	0.11	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.13	ND	0.15	0.018	
79-20-9	Methyl Acetate	ND	0.50	0.24	ND	0.17	0.079	X
108-87-2	Methylcyclohexane	ND	0.50	0.26	ND	0.12	0.065	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

X = See case narrative.

Data File : I:\MS16\DATA\2023_03\24\03242304.D
 Acq On : 24 Mar 2023 7:27
 Sample : MB R16032423_1000mL
 Misc : S35-01312301_AS01319

Vial: 2
 Operator: WA
 Inst : GCMS-16

107 3/24/23

Quant Time: Mar 24 08:42:11 2023
 Quant Method : I:\MS16\METHODS\R16122022.M
 Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
 QLast Update : Wed Dec 21 03:06:38 2022
 Response via : Initial Calibration
 DataAcq Meth:T015B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	205906	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	967198	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.72	54	203106	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	372837	13.616	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	108.96%
57) Toluene-d8 (SS2)	15.87	98	1089699	12.255	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	98.00%
73) Bromofluorobenzene (SS3)	19.10	174	311533	11.233	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	89.84%

Target Compounds

						Qvalue
2) Propene	4.23	42	273	N.D.		
3) Dichlorodifluoromethan...	0.00	85	0	N.D.		
4) Chloromethane	0.00	50	0	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.52	45	1809	0.091	ng	84
11) Acetonitrile	6.78	41	862	N.D.		
12) Acrolein	6.98	56	162	N.D.		
13) Acetone	7.22	58	2180	0.144	ng	# 86
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) 2-Propanol (Isopropanol)	0.00	45	0	N.D.		
16) Acrylonitrile	7.93	53	287	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.		
19) Methylene Chloride	8.58	84	125	N.D.		
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	8.88	76	124	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone (MEK)	0.00	72	0	N.D.		
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	11.40	57	602	N.D.		
32) Chloroform	0.00	83	0	N.D.		
34) Tetrahydrofuran (THF)	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.02	78	1612	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	0.00	84	0	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS16\DATA\2023_03\24\03242304.D
 Acq On : 24 Mar 2023 7:27
 Sample : MB R16032423_1000mL
 Misc : S35-01312301_AS01319

Vial: 2
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 24 08:42:11 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

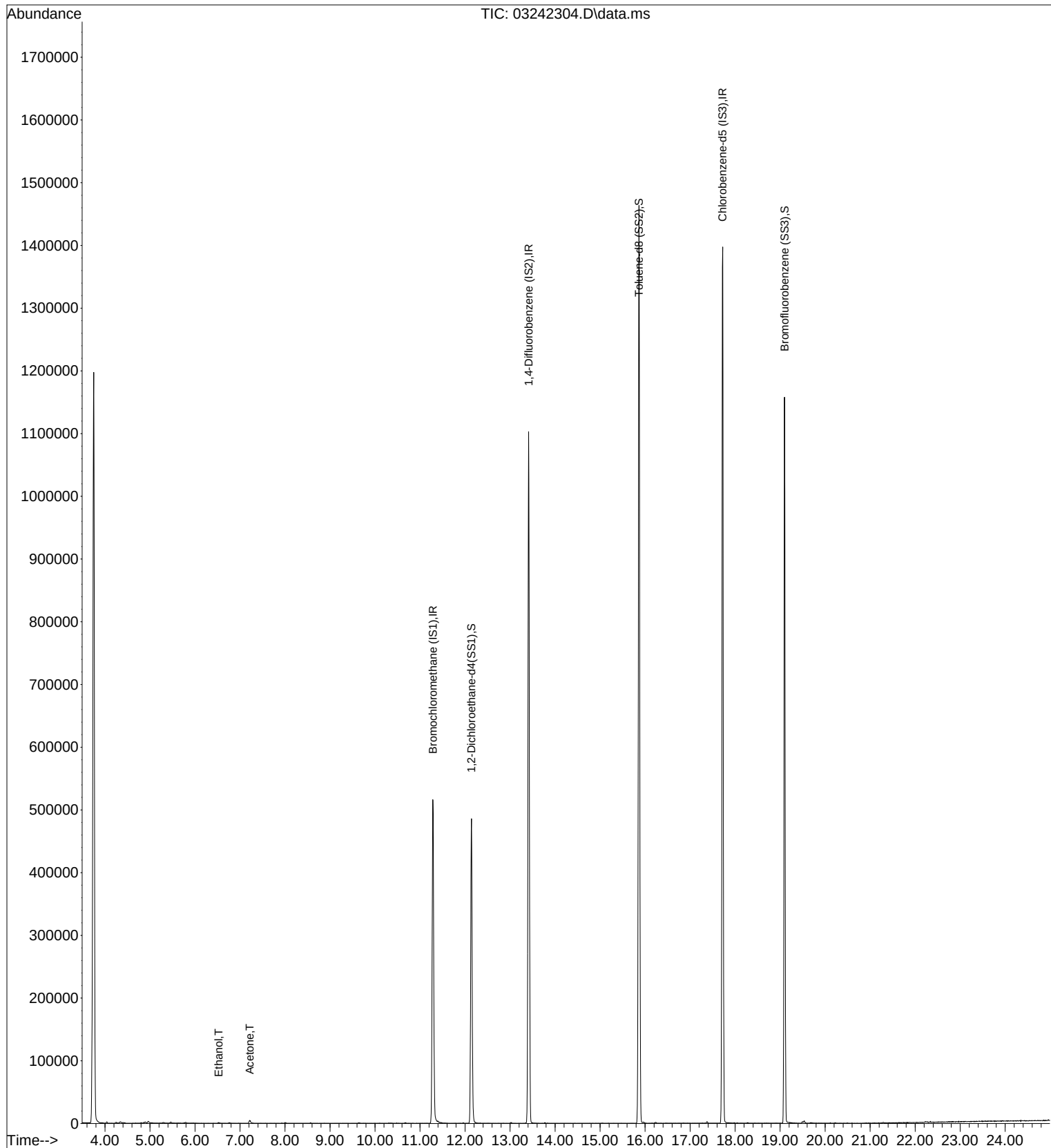
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.96	91	1367	N.D.		
59) 2-Hexanone	16.24	43	1365	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.86	43	492	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	18.11	91	126	N.D.		
67) m- & p-Xylenes	18.27	91	806	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	18.70	91	160	N.D.		
71) n-Nonane	0.00	43	0	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	19.22	105	240	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	19.66	91	388	N.D.		
77) 3-Ethyltoluene	20.23	105	269	No Calib	#	
78) 4-Ethyltoluene	19.80	105	284	N.D.		
79) 1,3,5-Trimethylbenzene	19.80	105	284	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.23	105	269	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.23	105	269	N.D.		
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	20.36	146	110	N.D.		
86) 1,4-Dichlorobenzene	20.42	146	204	N.D.		
87) sec-Butylbenzene	0.00	105	0	N.D.		
88) 4-Isopropyltoluene (p-...	20.61	119	290	N.D.		
89) 1,2,3-Trimethylbenzene	20.23	105	269	No Calib	#	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	0.00	68	0	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	22.23	180	431	N.D.		
95) Naphthalene	22.34	128	913	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	20.23	119	137	N.D.		
100) n-Butylbenzene	20.96	91	231	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\24\03242304.D
Acq On : 24 Mar 2023 7:27
Sample : MB R16032423_1000mL
Misc : S35-01312301_AS01319

Vial: 2
Operator: WA
Inst : GCMS-16

Quant Time: Mar 24 08:42:11 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



Data File : I:\MS16\DATA\2023_03\24\03242304.D
 Acq On : 24 Mar 2023 7:27
 Sample : MB R16032423_1000mL
 Misc : S35-01312301_AS01319

Vial: 2
 Operator: WA
 Inst : GCMS-16

WA 3/24/23

Quant Time: Mar 24 08:51:05 2023
 Quant Method : I:\MS16\METHODS\C16122022.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Dec 21 05:02:49 2022
 Response via : Initial Calibration
 DataAcq Meth:T015B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.28	130	205906	12.500	ng	-0.02
16) 1,4-Difluorobenzene (C_2)	13.41	114	967762	12.500	ng	-0.01
19) Chlorobenzene-d5 (C_3)	17.72	54	203106	12.500	ng	0.00

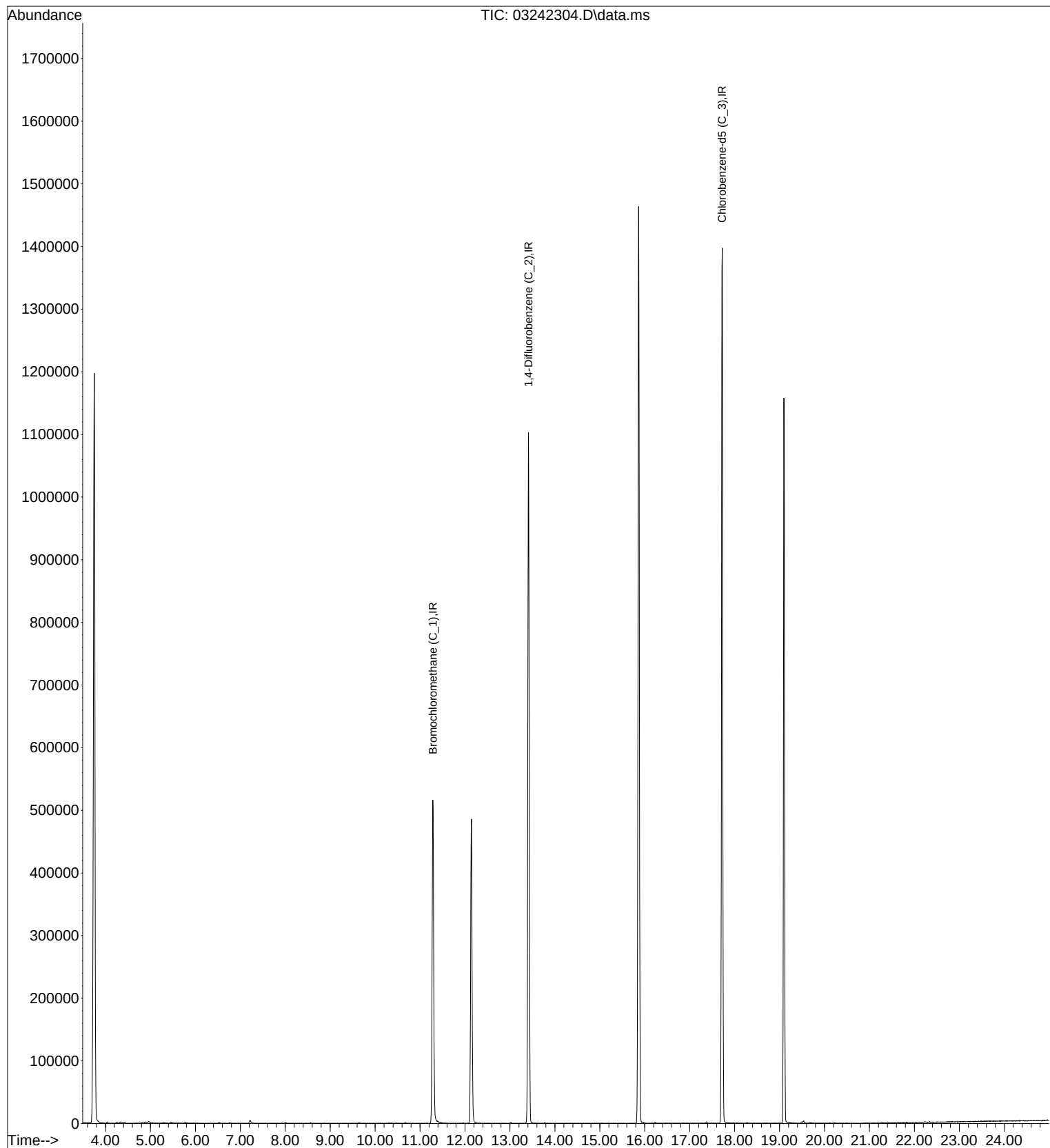
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	0.00	85	0	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	0.00	83	0	N.D.		
4) 1,1-Difluoroethane	0.00	65	0	N.D.		
5) Chlorodifluoromethane ...	0.00	67	0	N.D.		
6) 1-Chloro-1,1-Difluoroe...	0.00	65	0	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.		
11) Methyl Acetate	0.00	43	0	N.D.		
12) 2-Methylpentane	0.00	71	0	N.D.		
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	0.00	84	0	N.D.		
17) 2,3-Dimethylpentane	0.00	56	0	N.D.		
18) Dibromomethane	13.84	174	111	N.D.		
20) Methyl Cyclohexane	0.00	55	0	N.D.		
21) 1,3-Dichloropropane	0.00	76	0	N.D.	d	
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	0.00	91	0	N.D.		
24) 1,2,3-Trichloropropane	0.00	75	0	N.D.		
25) Bromobenzene	0.00	77	0	N.D.		
26) 2-Chlorotoluene	19.66	91	388	N.D.		
27) 4-Chlorotoluene	19.66	91	388	N.D.		
28) Indane	0.00	117	0	N.D.		
29) Indene	0.00	115	0	N.D.		
30) 1,2,4,5-Tetramethylben...	0.00	119	0	N.D.		
31) 1,2,3,4-Tetramethylben...	0.00	119	0	N.D.		
32) 1,2,3,5-Tetramethylben...	0.00	119	0	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\24\03242304.D
Acq On : 24 Mar 2023 7:27
Sample : MB R16032423_1000mL
Misc : S35-01312301_AS01319

Vial: 2
Operator: WA
Inst : GCMS-16

Quant Time: Mar 24 08:51:05 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: Method Blank

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P230327-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.53	0.087	ND	0.11	0.018	
74-87-3	Chloromethane	ND	0.21	0.086	ND	0.10	0.042	
75-01-4	Vinyl Chloride	ND	0.11	0.057	ND	0.043	0.022	
74-83-9	Bromomethane	ND	0.21	0.074	ND	0.054	0.019	
75-00-3	Chloroethane	ND	0.21	0.066	ND	0.080	0.025	
67-64-1	Acetone	ND	5.3	1.2	ND	2.2	0.51	
75-69-4	Trichlorofluoromethane	ND	0.52	0.081	ND	0.093	0.014	
75-35-4	1,1-Dichloroethene	ND	0.11	0.074	ND	0.028	0.019	
75-09-2	Methylene Chloride	ND	0.53	0.15	ND	0.15	0.043	
76-13-1	Trichlorotrifluoroethane	ND	0.54	0.076	ND	0.070	0.0099	
75-15-0	Carbon Disulfide	ND	1.1	0.16	ND	0.34	0.051	
156-60-5	trans-1,2-Dichloroethene	ND	0.11	0.074	ND	0.028	0.019	
75-34-3	1,1-Dichloroethane	ND	0.11	0.078	ND	0.027	0.019	
1634-04-4	Methyl tert-Butyl Ether	ND	0.54	0.063	ND	0.15	0.017	
78-93-3	2-Butanone (MEK)	ND	1.0	0.11	ND	0.35	0.037	
156-59-2	cis-1,2-Dichloroethene	ND	0.11	0.075	ND	0.028	0.019	
67-66-3	Chloroform	ND	0.11	0.071	ND	0.023	0.015	
107-06-2	1,2-Dichloroethane	ND	0.11	0.059	ND	0.027	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.11	0.066	ND	0.020	0.012	
71-43-2	Benzene	ND	0.11	0.077	ND	0.034	0.024	
56-23-5	Carbon Tetrachloride	ND	0.11	0.074	ND	0.017	0.012	
110-82-7	Cyclohexane	ND	1.1	0.15	ND	0.31	0.044	
78-87-5	1,2-Dichloropropane	ND	0.11	0.066	ND	0.024	0.014	
75-27-4	Bromodichloromethane	ND	0.11	0.077	ND	0.016	0.011	
79-01-6	Trichloroethene	ND	0.11	0.072	ND	0.020	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: Method Blank

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P230327-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.54	0.083	ND	0.12	0.018	
108-10-1	4-Methyl-2-pentanone	ND	1.1	0.073	ND	0.27	0.018	
10061-02-6	trans-1,3-Dichloropropene	ND	0.51	0.11	ND	0.11	0.024	
79-00-5	1,1,2-Trichloroethane	ND	0.11	0.054	ND	0.020	0.0099	
108-88-3	Toluene	ND	0.53	0.065	ND	0.14	0.017	
591-78-6	2-Hexanone	ND	1.1	0.066	ND	0.27	0.016	
124-48-1	Dibromochloromethane	ND	0.11	0.070	ND	0.013	0.0082	
106-93-4	1,2-Dibromoethane	ND	0.11	0.062	ND	0.014	0.0081	
127-18-4	Tetrachloroethene	ND	0.11	0.069	ND	0.016	0.010	
108-90-7	Chlorobenzene	ND	0.53	0.071	ND	0.12	0.015	
100-41-4	Ethylbenzene	ND	0.53	0.075	ND	0.12	0.017	
179601-23-1	m,p-Xylenes	ND	1.1	0.14	ND	0.25	0.032	
75-25-2	Bromoform	ND	0.54	0.11	ND	0.052	0.011	
100-42-5	Styrene	ND	0.53	0.086	ND	0.12	0.020	
95-47-6	o-Xylene	ND	0.53	0.077	ND	0.12	0.018	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.11	0.074	ND	0.016	0.011	
98-82-8	Cumene	ND	0.54	0.077	ND	0.11	0.016	
541-73-1	1,3-Dichlorobenzene	ND	0.53	0.080	ND	0.088	0.013	
106-46-7	1,4-Dichlorobenzene	ND	0.53	0.082	ND	0.088	0.014	
95-50-1	1,2-Dichlorobenzene	ND	0.54	0.079	ND	0.090	0.013	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	0.10	ND	0.11	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.13	ND	0.15	0.018	
79-20-9	Methyl Acetate	ND	0.50	0.24	ND	0.17	0.079	X
108-87-2	Methylcyclohexane	ND	0.50	0.26	ND	0.12	0.065	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

X = See case narrative.

Data File : I:\MS13\DATA\2023_03\27\03272304.D
 Acq On : 27 Mar 2023 5:29
 Sample : MB R13032723 1000mL
 Misc : S35-01202301_AS01837

Vial: 1
 Operator: WA
 Inst : MS13

T2 3/27/23

Quant Time: Mar 27 08:17:09 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.31	130	232832	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	9.36	114	1040138	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.87	54	191886	12.500	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.07	65	400513	12.962	ng	-0.04
Spiked Amount	12.500	Range	70 - 130	Recovery	=	103.68%
57) Toluene-d8 (SS2)	12.48	98	1190749	12.067	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	96.56%
73) Bromofluorobenzene (SS3)	16.85	174	406912	11.258	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	90.08%

Target Compounds

						Qvalue
2) Propene	3.44	42	861	N.D.		
3) Dichlorodifluoromethan...	3.45	85	287	N.D.		
4) Chloromethane	3.47	50	1106	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	4.41	45	2925	0.177	ng	92
11) Acetonitrile	4.58	41	1332	N.D.		
12) Acrolein	4.68	56	360	N.D.		
13) Acetone	4.77	58	4217	0.299	ng	96
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) 2-Propanol (Isopropanol)	4.98	45	4830	0.085	ng	83
16) Acrylonitrile	5.14	53	507	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	5.46	59	322	N.D.		
19) Methylene Chloride	5.46	84	391	N.D.		
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	5.73	76	5519	0.067	ng	89
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone (MEK)	6.79	72	262	N.D.		
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	0.00	57	0	N.D.		
32) Chloroform	0.00	83	0	N.D.		
34) Tetrahydrofuran (THF)	7.89	72	383	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.07	62	366	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	9.36	61	29747	No Calib		
40) 1-Butanol	8.93	56	715	No Calib	#	
41) Benzene	8.97	78	931	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	9.35	84	313	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	10.22	88	134	N.D.		
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS13\DATA\2023_03\27\03272304.D
 Acq On : 27 Mar 2023 5:29
 Sample : MB R13032723 1000mL
 Misc : S35-01202301_AS01837

Vial: 1
 Operator: WA
 Inst : MS13

Quant Time: Mar 27 08:17:09 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

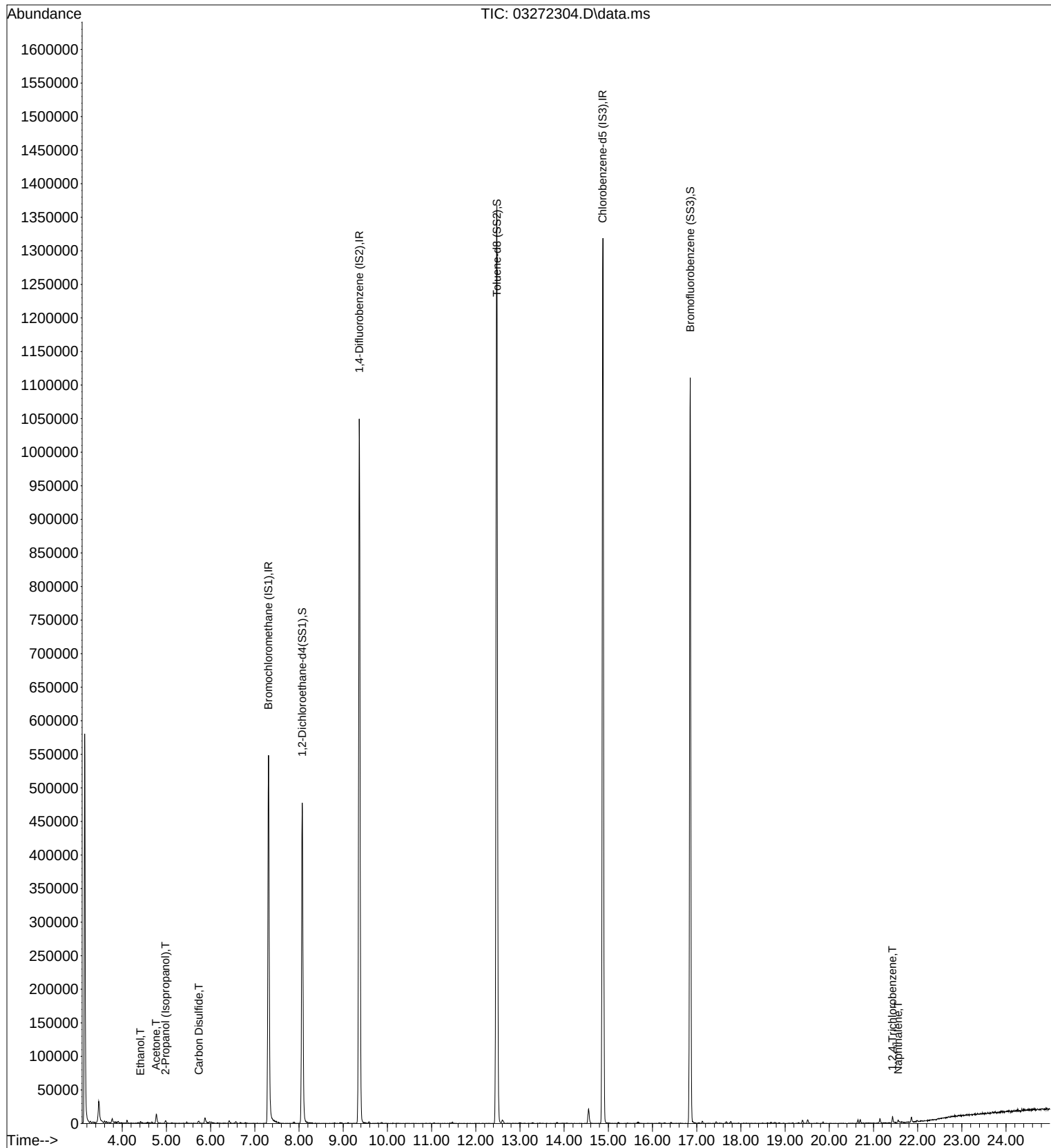
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.60	91	4628	N.D.		
59) 2-Hexanone	12.99	43	1677	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.83	43	1174	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	14.09	166	308	N.D.		
65) Chlorobenzene	14.94	112	142	N.D.		
66) Ethylbenzene	15.44	91	776	N.D.		
67) m- & p-Xylenes	15.68	91	2467	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.15	104	208	N.D.		
70) o-Xylene	16.27	91	637	N.D.		
71) n-Nonane	16.63	43	160	N.D.		
72) 1,1,2,2-Tetrachloroethane	16.24	83	203	N.D.		
74) Cumene	17.07	105	343	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	17.78	91	3071	N.D.		
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.95	105	641	N.D.		
79) 1,3,5-Trimethylbenzene	18.07	105	449	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.61	105	566	N.D.		
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	18.76	91	2281	N.D.		
85) 1,3-Dichlorobenzene	18.78	146	508	N.D.		
86) 1,4-Dichlorobenzene	18.87	146	774	N.D.		
87) sec-Butylbenzene	18.96	105	506	N.D.		
88) 4-Isopropyltoluene (p-...	19.18	119	544	N.D.		
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.31	146	587	N.D.		
91) d-Limonene	0.00	68	0	N.D.		
92) 1,2-Dibromo-3-Chloropr...	19.86	157	829	N.D.		
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	21.43	180	3854	0.098 ng		97
95) Naphthalene	21.56	128	5425	0.057 ng		85
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	21.99	225	512	N.D.		
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	18.60	119	349	N.D.		
100) n-Butylbenzene	19.72	91	656	N.D.		
101) 1,1,1,2-Tetrachloroethane	14.91	131	416	N.D.		

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

Data File : I:\MS13\DATA\2023_03\27\03272304.D
Acq On : 27 Mar 2023 5:29
Sample : MB R13032723 1000mL
Misc : S35-01202301_AS01837

Vial: 1
Operator: WA
Inst : MS13

Quant Time: Mar 27 08:17:09 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\27\03272304.D
 Acq On : 27 Mar 2023 5:29
 Sample : MB R13032723 1000mL
 Misc : S35-01202301_AS01837

Vial: 1
 Operator: WA
 Inst : MS13

Tz 3/27/23

Quant Time: Mar 27 09:00:00 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.31	130	235527	12.500	ng	-0.01
16) 1,4-Difluorobenzene (C_2)	9.36	114	1041777	12.500	ng	-0.02
19) Chlorobenzene-d5 (C_3)	14.87	54	191886	12.500	ng	0.00

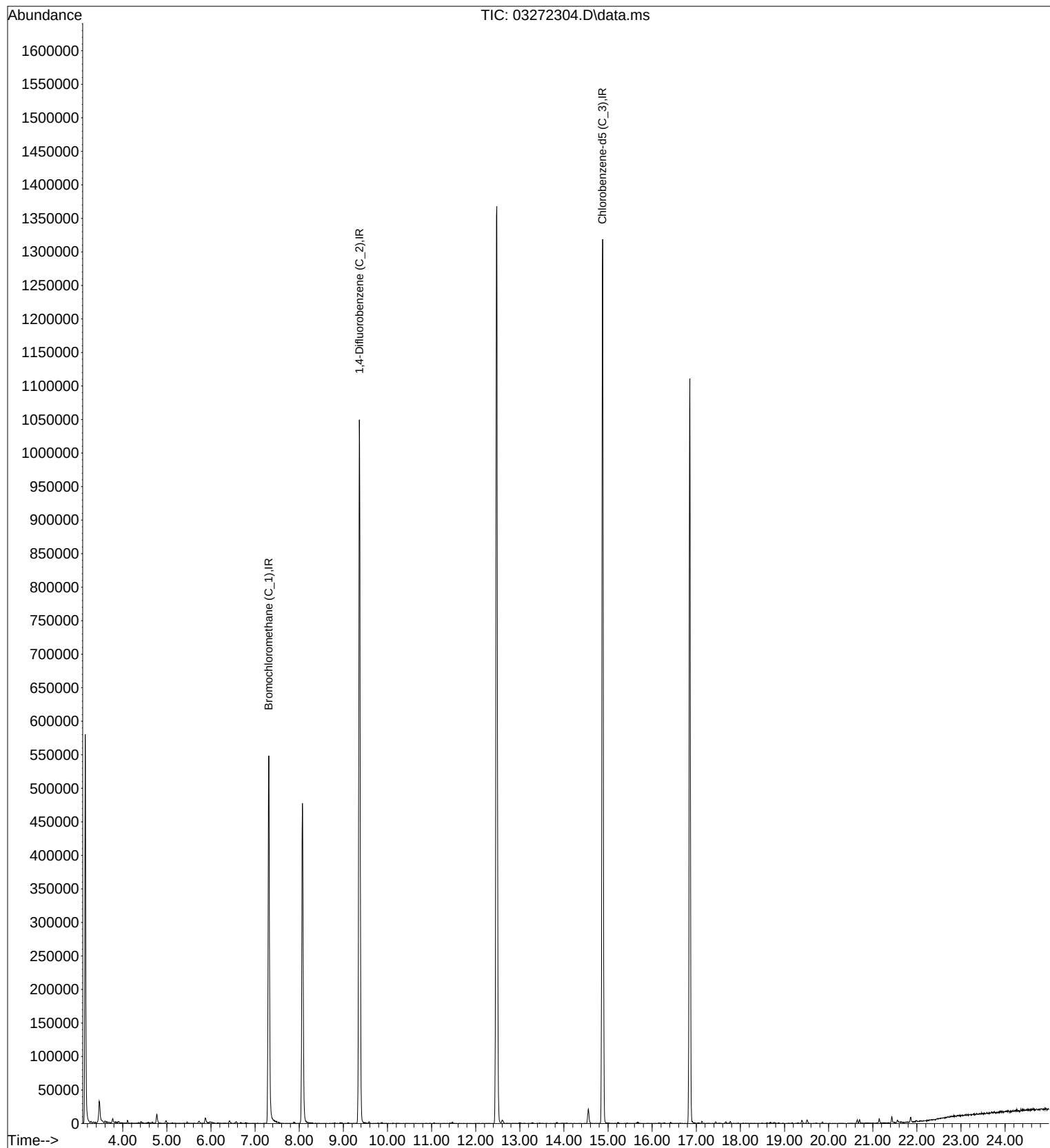
Target Compounds				Qvalue
2) Chloropentafluoroethane	0.00	85	0	N.D.
3) 1,1,1,2-Tetrafluoroeth...	3.33	83	347	N.D.
4) 1,1-Difluoroethane	3.38	65	354	N.D.
5) Chlorodifluoromethane ...	0.00	67	0	N.D.
6) 1-Chloro-1,1-Difluoroe...	3.64	65	1329	N.D.
7) Dichlorofluoromethane ...	4.36	67	1144	N.D.
8) Vinylbromide	4.57	108	369	N.D.
9) 2,2-Dichloro-1,1,1-tri...	4.67	83	997	N.D.
10) 2-Methylbutane	4.78	57	694	N.D.
11) Methyl Acetate	5.46	43	1312	N.D.
12) 2-Methylpentane	6.57	71	357	N.D.
13) 2,2-Dichloropropane	0.00	77	0	N.D.
14) 1,1-Dichloropropene	8.80	75	536	N.D.
15) Thiophene	9.11	84	1117	N.D.
17) 2,3-Dimethylpentane	9.59	56	947	N.D.
18) Dibromomethane	9.86	174	865	N.D.
20) Methyl Cyclohexane	11.47	55	784	N.D.
21) 1,3-Dichloropropane	12.63	76	1106	N.D.
22) 1,1,1,2-Tetrachloroethane	14.91	131	416	N.D.
23) 1-Chlorohexane	15.21	91	672	N.D.
24) 1,2,3-Trichloropropane	16.43	75	1205	N.D.
25) Bromobenzene	17.13	77	1508	N.D.
26) 2-Chlorotoluene	17.67	91	2445	N.D.
27) 4-Chlorotoluene	17.67	91	2445	N.D.
28) Indane	19.40	117	3102	N.D.
29) Indene	19.51	115	3845	N.D.
30) 1,2,4,5-Tetramethylben...	20.65	119	3565	N.D.
31) 1,2,3,4-Tetramethylben...	20.70	119	3833	N.D.
32) 1,2,3,5-Tetramethylben...	21.14	119	4094	N.D.
33) 1,2,3-Trichlorobenzene	21.86	180	3274	N.D.

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

Data File : I:\MS13\DATA\2023_03\27\03272304.D
Acq On : 27 Mar 2023 5:29
Sample : MB R13032723 1000mL
Misc : S35-01202301_AS01837

Vial: 1
Operator: WA
Inst : MS13

Quant Time: Mar 27 09:00:00 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: Method Blank

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P230327-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.53	0.087	ND	0.11	0.018	V
74-87-3	Chloromethane	ND	0.21	0.086	ND	0.10	0.042	
75-01-4	Vinyl Chloride	ND	0.11	0.057	ND	0.043	0.022	
74-83-9	Bromomethane	ND	0.21	0.074	ND	0.054	0.019	
75-00-3	Chloroethane	ND	0.21	0.066	ND	0.080	0.025	
67-64-1	Acetone	ND	5.3	1.2	ND	2.2	0.51	
75-69-4	Trichlorofluoromethane	ND	0.52	0.081	ND	0.093	0.014	
75-35-4	1,1-Dichloroethene	ND	0.11	0.074	ND	0.028	0.019	
75-09-2	Methylene Chloride	ND	0.53	0.15	ND	0.15	0.043	
76-13-1	Trichlorotrifluoroethane	ND	0.54	0.076	ND	0.070	0.0099	
75-15-0	Carbon Disulfide	ND	1.1	0.16	ND	0.34	0.051	
156-60-5	trans-1,2-Dichloroethene	ND	0.11	0.074	ND	0.028	0.019	
75-34-3	1,1-Dichloroethane	ND	0.11	0.078	ND	0.027	0.019	
1634-04-4	Methyl tert-Butyl Ether	ND	0.54	0.063	ND	0.15	0.017	
78-93-3	2-Butanone (MEK)	ND	1.0	0.11	ND	0.35	0.037	
156-59-2	cis-1,2-Dichloroethene	ND	0.11	0.075	ND	0.028	0.019	
67-66-3	Chloroform	ND	0.11	0.071	ND	0.023	0.015	
107-06-2	1,2-Dichloroethane	ND	0.11	0.059	ND	0.027	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.11	0.066	ND	0.020	0.012	
71-43-2	Benzene	ND	0.11	0.077	ND	0.034	0.024	
56-23-5	Carbon Tetrachloride	ND	0.11	0.074	ND	0.017	0.012	
110-82-7	Cyclohexane	ND	1.1	0.15	ND	0.31	0.044	
78-87-5	1,2-Dichloropropane	ND	0.11	0.066	ND	0.024	0.014	
75-27-4	Bromodichloromethane	ND	0.11	0.077	ND	0.016	0.011	
79-01-6	Trichloroethene	ND	0.11	0.072	ND	0.020	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: Method Blank

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P230327-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 3/27/23

Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.54	0.083	ND	0.12	0.018	
108-10-1	4-Methyl-2-pentanone	ND	1.1	0.073	ND	0.27	0.018	
10061-02-6	trans-1,3-Dichloropropene	ND	0.51	0.11	ND	0.11	0.024	
79-00-5	1,1,2-Trichloroethane	ND	0.11	0.054	ND	0.020	0.0099	
108-88-3	Toluene	ND	0.53	0.065	ND	0.14	0.017	
591-78-6	2-Hexanone	ND	1.1	0.066	ND	0.27	0.016	
124-48-1	Dibromochloromethane	ND	0.11	0.070	ND	0.013	0.0082	
106-93-4	1,2-Dibromoethane	ND	0.11	0.062	ND	0.014	0.0081	
127-18-4	Tetrachloroethene	ND	0.11	0.069	ND	0.016	0.010	
108-90-7	Chlorobenzene	ND	0.53	0.071	ND	0.12	0.015	
100-41-4	Ethylbenzene	ND	0.53	0.075	ND	0.12	0.017	
179601-23-1	m,p-Xylenes	ND	1.1	0.14	ND	0.25	0.032	
75-25-2	Bromoform	ND	0.54	0.11	ND	0.052	0.011	
100-42-5	Styrene	ND	0.53	0.086	ND	0.12	0.020	
95-47-6	o-Xylene	ND	0.53	0.077	ND	0.12	0.018	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.11	0.074	ND	0.016	0.011	
98-82-8	Cumene	ND	0.54	0.077	ND	0.11	0.016	
541-73-1	1,3-Dichlorobenzene	ND	0.53	0.080	ND	0.088	0.013	
106-46-7	1,4-Dichlorobenzene	ND	0.53	0.082	ND	0.088	0.014	
95-50-1	1,2-Dichlorobenzene	ND	0.54	0.079	ND	0.090	0.013	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	0.10	ND	0.11	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.13	ND	0.15	0.018	
79-20-9	Methyl Acetate	ND	0.50	0.24	ND	0.17	0.079	X
108-87-2	Methylcyclohexane	ND	0.50	0.26	ND	0.12	0.065	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

X = See case narrative.

Data File : I:\MS16\DATA\2023_03\27\03272304.D
 Acq On : 27 Mar 2023 6:02
 Sample : MB R16032723_1000mL
 Misc : S35-01312301_AS01319

Vial: 2
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 06:25:47 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	199201	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	939227	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.72	54	195607	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	360291	13.600	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	108.80%	
57) Toluene-d8 (SS2)	15.86	98	1059332	12.370	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	98.96%	
73) Bromofluorobenzene (SS3)	19.10	174	301514	11.289	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	90.32%	

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.		
3) Dichlorodifluoromethan...	0.00	85	0	N.D.		
4) Chloromethane	0.00	50	0	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.53	45	1199	0.063	ng	68
11) Acetonitrile	6.77	41	817	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) Acetone	7.21	58	2095	0.143	ng	98
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) 2-Propanol (Isopropanol)	0.00	45	0	N.D.		
16) Acrylonitrile	7.92	53	194	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.		
19) Methylene Chloride	8.56	84	221	N.D.		
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	8.86	76	852	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone (MEK)	0.00	72	0	N.D.		
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	11.41	57	160	N.D.		
32) Chloroform	0.00	83	0	N.D.		
34) Tetrahydrofuran (THF)	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.02	78	1234	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	0.00	84	0	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS16\DATA\2023_03\27\03272304.D
 Acq On : 27 Mar 2023 6:02
 Sample : MB R16032723_1000mL
 Misc : S35-01312301_AS01319

Vial: 2
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 06:25:47 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

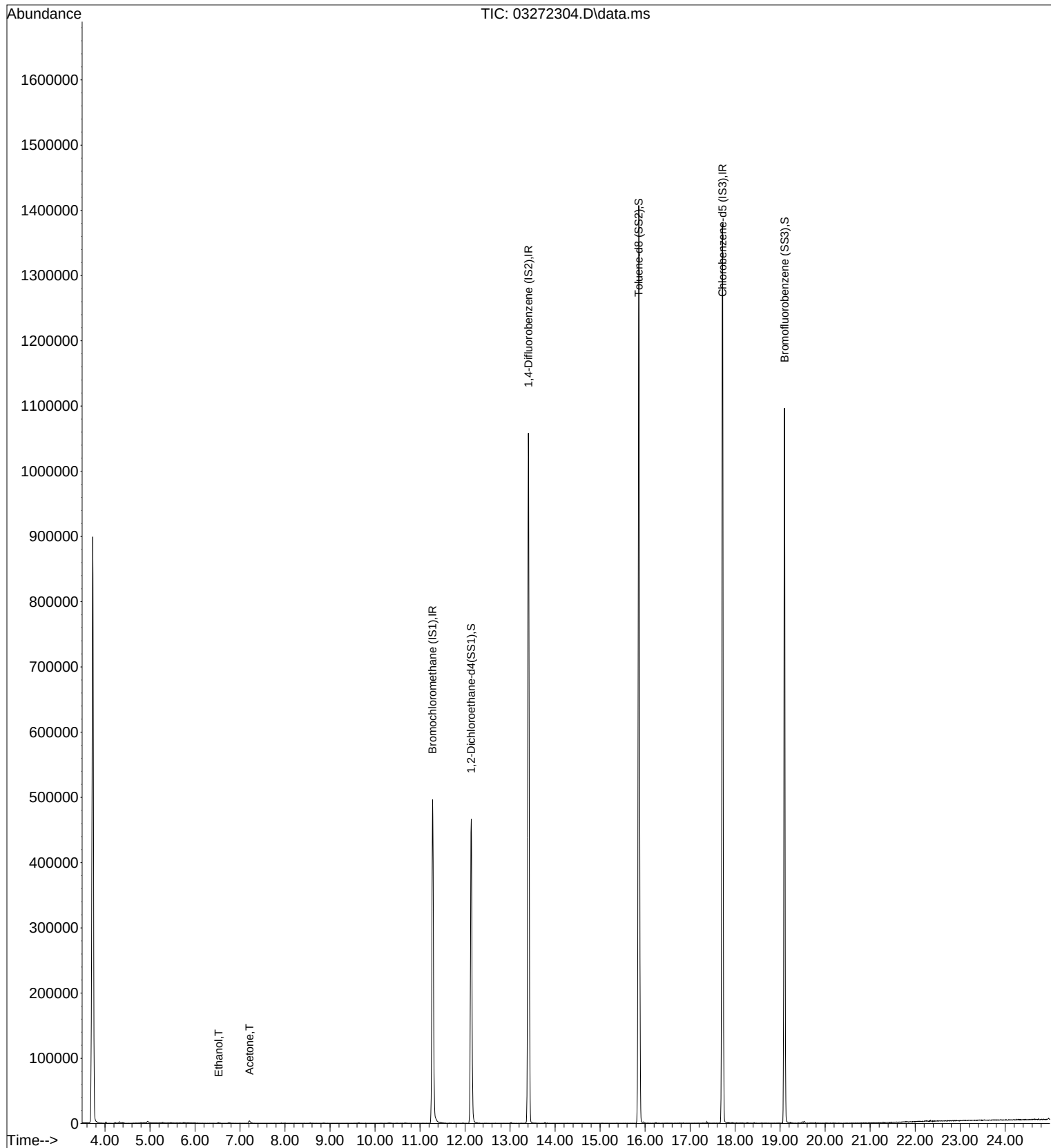
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.97	91	1511	N.D.		
59) 2-Hexanone	16.23	43	880	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.85	43	329	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	18.11	91	216	N.D.		
67) m- & p-Xylenes	18.27	91	697	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	0.00	91	0	N.D.		
71) n-Nonane	0.00	43	0	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	19.22	105	111	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	19.66	91	365	N.D.		
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	19.80	105	209	N.D.		
79) 1,3,5-Trimethylbenzene	19.80	105	209	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	0.00	105	0	N.D.		
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	20.42	146	136	N.D.		
86) 1,4-Dichlorobenzene	20.42	146	136	N.D.		
87) sec-Butylbenzene	20.46	105	205	N.D.		
88) 4-Isopropyltoluene (p-...	20.60	119	293	N.D.		
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	0.00	68	0	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	22.23	180	326	N.D.		
95) Naphthalene	22.34	128	721	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	20.23	119	112	N.D.		
100) n-Butylbenzene	20.97	91	109	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\27\03272304.D
Acq On : 27 Mar 2023 6:02
Sample : MB R16032723_1000mL
Misc : S35-01312301_AS01319

Vial: 2
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 06:25:47 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



Data File : I:\MS16\DATA\2023_03\27\03272304.D
 Acq On : 27 Mar 2023 6:02
 Sample : MB R16032723_1000mL
 Misc : S35-01312301_AS01319

Vial: 2
 Operator: WA
 Inst : GCMS-16

 3/27/23

Quant Time: Mar 27 08:52:34 2023
 Quant Method : I:\MS16\METHODS\C16122022.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Dec 21 05:02:49 2022
 Response via : Initial Calibration
 DataAcq Meth:T015B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.28	130	199201	12.500	ng	-0.02
16) 1,4-Difluorobenzene (C_2)	13.41	114	939227	12.500	ng	-0.02
19) Chlorobenzene-d5 (C_3)	17.72	54	195607	12.500	ng	0.00

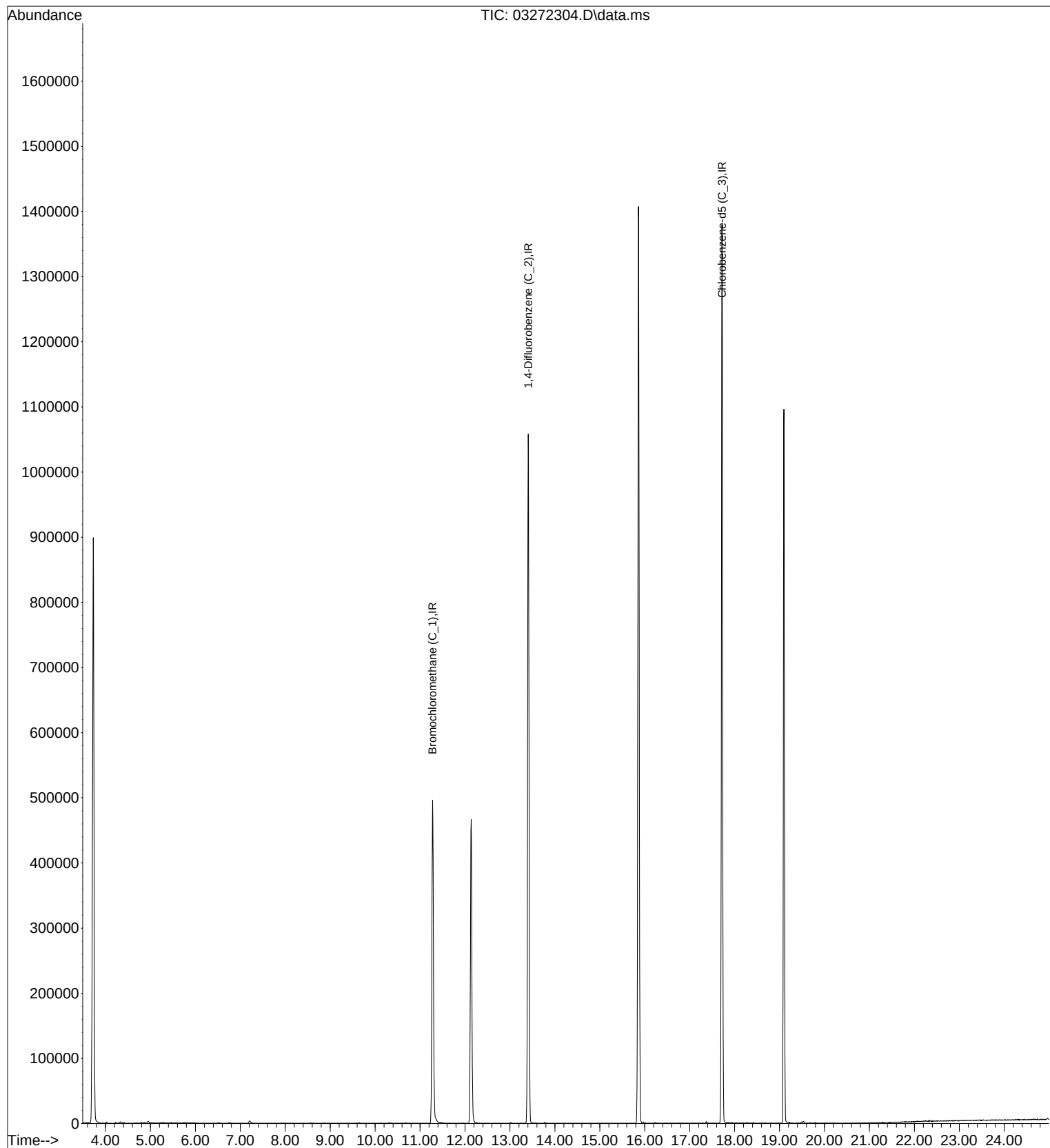
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	0.00	85	0	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	0.00	83	0	N.D.		
4) 1,1-Difluoroethane	0.00	65	0	N.D.		
5) Chlorodifluoromethane ...	0.00	67	0	N.D.		
6) 1-Chloro-1,1-Difluoroe...	0.00	65	0	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.		
11) Methyl Acetate	8.63	43	50	N.D.		
12) 2-Methylpentane	0.00	71	0	N.D.		
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	0.00	84	0	N.D.		
17) 2,3-Dimethylpentane	0.00	56	0	N.D.		
18) Dibromomethane	13.84	174	176	N.D.		
20) Methyl Cyclohexane	0.00	55	0	N.D.		
21) 1,3-Dichloropropane	0.00	76	0	N.D.	d	
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	0.00	91	0	N.D.		
24) 1,2,3-Trichloropropane	0.00	75	0	N.D.		
25) Bromobenzene	0.00	77	0	N.D.		
26) 2-Chlorotoluene	19.66	91	365	N.D.		
27) 4-Chlorotoluene	19.69	91	56	N.D.		
28) Indane	0.00	117	0	N.D.		
29) Indene	0.00	115	0	N.D.		
30) 1,2,4,5-Tetramethylben...	0.00	119	0	N.D.		
31) 1,2,3,4-Tetramethylben...	0.00	119	0	N.D.		
32) 1,2,3,5-Tetramethylben...	0.00	119	0	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\27\03272304.D
Acq On : 27 Mar 2023 6:02
Sample : MB R16032723_1000mL
Misc : S35-01312301_AS01319

Vial: 2
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 08:52:34 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: Method Blank

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P230328-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 3/28/23

Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.53	0.087	ND	0.11	0.018	
74-87-3	Chloromethane	ND	0.21	0.086	ND	0.10	0.042	
75-01-4	Vinyl Chloride	ND	0.11	0.057	ND	0.043	0.022	
74-83-9	Bromomethane	ND	0.21	0.074	ND	0.054	0.019	
75-00-3	Chloroethane	ND	0.21	0.066	ND	0.080	0.025	
67-64-1	Acetone	ND	5.3	1.2	ND	2.2	0.51	
75-69-4	Trichlorofluoromethane	ND	0.52	0.081	ND	0.093	0.014	
75-35-4	1,1-Dichloroethene	ND	0.11	0.074	ND	0.028	0.019	
75-09-2	Methylene Chloride	ND	0.53	0.15	ND	0.15	0.043	
76-13-1	Trichlorotrifluoroethane	ND	0.54	0.076	ND	0.070	0.0099	
75-15-0	Carbon Disulfide	ND	1.1	0.16	ND	0.34	0.051	
156-60-5	trans-1,2-Dichloroethene	ND	0.11	0.074	ND	0.028	0.019	
75-34-3	1,1-Dichloroethane	ND	0.11	0.078	ND	0.027	0.019	
1634-04-4	Methyl tert-Butyl Ether	ND	0.54	0.063	ND	0.15	0.017	
78-93-3	2-Butanone (MEK)	ND	1.0	0.11	ND	0.35	0.037	
156-59-2	cis-1,2-Dichloroethene	ND	0.11	0.075	ND	0.028	0.019	
67-66-3	Chloroform	ND	0.11	0.071	ND	0.023	0.015	
107-06-2	1,2-Dichloroethane	ND	0.11	0.059	ND	0.027	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.11	0.066	ND	0.020	0.012	
71-43-2	Benzene	ND	0.11	0.077	ND	0.034	0.024	
56-23-5	Carbon Tetrachloride	ND	0.11	0.074	ND	0.017	0.012	
110-82-7	Cyclohexane	ND	1.1	0.15	ND	0.31	0.044	
78-87-5	1,2-Dichloropropane	ND	0.11	0.066	ND	0.024	0.014	
75-27-4	Bromodichloromethane	ND	0.11	0.077	ND	0.016	0.011	
79-01-6	Trichloroethene	ND	0.11	0.072	ND	0.020	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: Method Blank

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P230328-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 3/28/23

Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
10061-01-5	cis-1,3-Dichloropropene	ND	0.54	0.083	ND	0.12	0.018	
108-10-1	4-Methyl-2-pentanone	ND	1.1	0.073	ND	0.27	0.018	
10061-02-6	trans-1,3-Dichloropropene	ND	0.51	0.11	ND	0.11	0.024	
79-00-5	1,1,2-Trichloroethane	ND	0.11	0.054	ND	0.020	0.0099	
108-88-3	Toluene	ND	0.53	0.065	ND	0.14	0.017	
591-78-6	2-Hexanone	ND	1.1	0.066	ND	0.27	0.016	
124-48-1	Dibromochloromethane	ND	0.11	0.070	ND	0.013	0.0082	
106-93-4	1,2-Dibromoethane	ND	0.11	0.062	ND	0.014	0.0081	
127-18-4	Tetrachloroethene	ND	0.11	0.069	ND	0.016	0.010	
108-90-7	Chlorobenzene	ND	0.53	0.071	ND	0.12	0.015	
100-41-4	Ethylbenzene	ND	0.53	0.075	ND	0.12	0.017	
179601-23-1	m,p-Xylenes	ND	1.1	0.14	ND	0.25	0.032	
75-25-2	Bromoform	ND	0.54	0.11	ND	0.052	0.011	
100-42-5	Styrene	ND	0.53	0.086	ND	0.12	0.020	
95-47-6	o-Xylene	ND	0.53	0.077	ND	0.12	0.018	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.11	0.074	ND	0.016	0.011	
98-82-8	Cumene	ND	0.54	0.077	ND	0.11	0.016	
541-73-1	1,3-Dichlorobenzene	ND	0.53	0.080	ND	0.088	0.013	
106-46-7	1,4-Dichlorobenzene	ND	0.53	0.082	ND	0.088	0.014	
95-50-1	1,2-Dichlorobenzene	ND	0.54	0.079	ND	0.090	0.013	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	0.10	ND	0.11	0.010	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.13	ND	0.15	0.018	
79-20-9	Methyl Acetate	ND	0.50	0.24	ND	0.17	0.079	X
108-87-2	Methylcyclohexane	ND	0.50	0.26	ND	0.12	0.065	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

X = See case narrative.

Data File : I:\MS13\DATA\2023_03\28\03282303.D
 Acq On : 28 Mar 2023 4:13
 Sample : MB R13032823 1000mL
 Misc : S35-01202301_AS01837

Vial: 1
 Operator: TZ
 Inst : MS13

Tz 3/28/23

Quant Time: Mar 28 08:04:02 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	216174	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.37	114	974420	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.87	54	183462	12.500	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	385565	13.440	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	107.52%
57) Toluene-d8 (SS2)	12.48	98	1101723	11.677	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.44%
73) Bromofluorobenzene (SS3)	16.85	174	393816	11.396	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	91.20%

Target Compounds

						Qvalue
2) Propene	3.45	42	717	N.D.		
3) Dichlorodifluoromethan...	0.00	85	0	N.D.		
4) Chloromethane	3.49	50	932	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	4.44	45	1936	0.126	ng	76
11) Acetonitrile	4.59	41	758	N.D.		
12) Acrolein	4.68	56	254	N.D.		
13) Acetone	4.79	58	3820	0.292	ng	# 81
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) 2-Propanol (Isopropanol)	4.99	45	3983	0.075	ng	88
16) Acrylonitrile	5.14	53	81	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.		
19) Methylene Chloride	5.45	84	373	N.D.		
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	5.73	76	4646	0.061	ng	94
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone (MEK)	0.00	72	0	N.D.		
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	0.00	57	0	N.D.		
32) Chloroform	0.00	83	0	N.D.		
34) Tetrahydrofuran (THF)	7.90	72	148	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.07	62	449	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	9.36	61	28666	No Calib		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	8.98	78	694	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	9.36	84	919	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS13\DATA\2023_03\28\03282303.D
 Acq On : 28 Mar 2023 4:13
 Sample : MB R13032823 1000mL
 Misc : S35-01202301_AS01837

Vial: 1
 Operator: TZ
 Inst : MS13

Quant Time: Mar 28 08:04:02 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

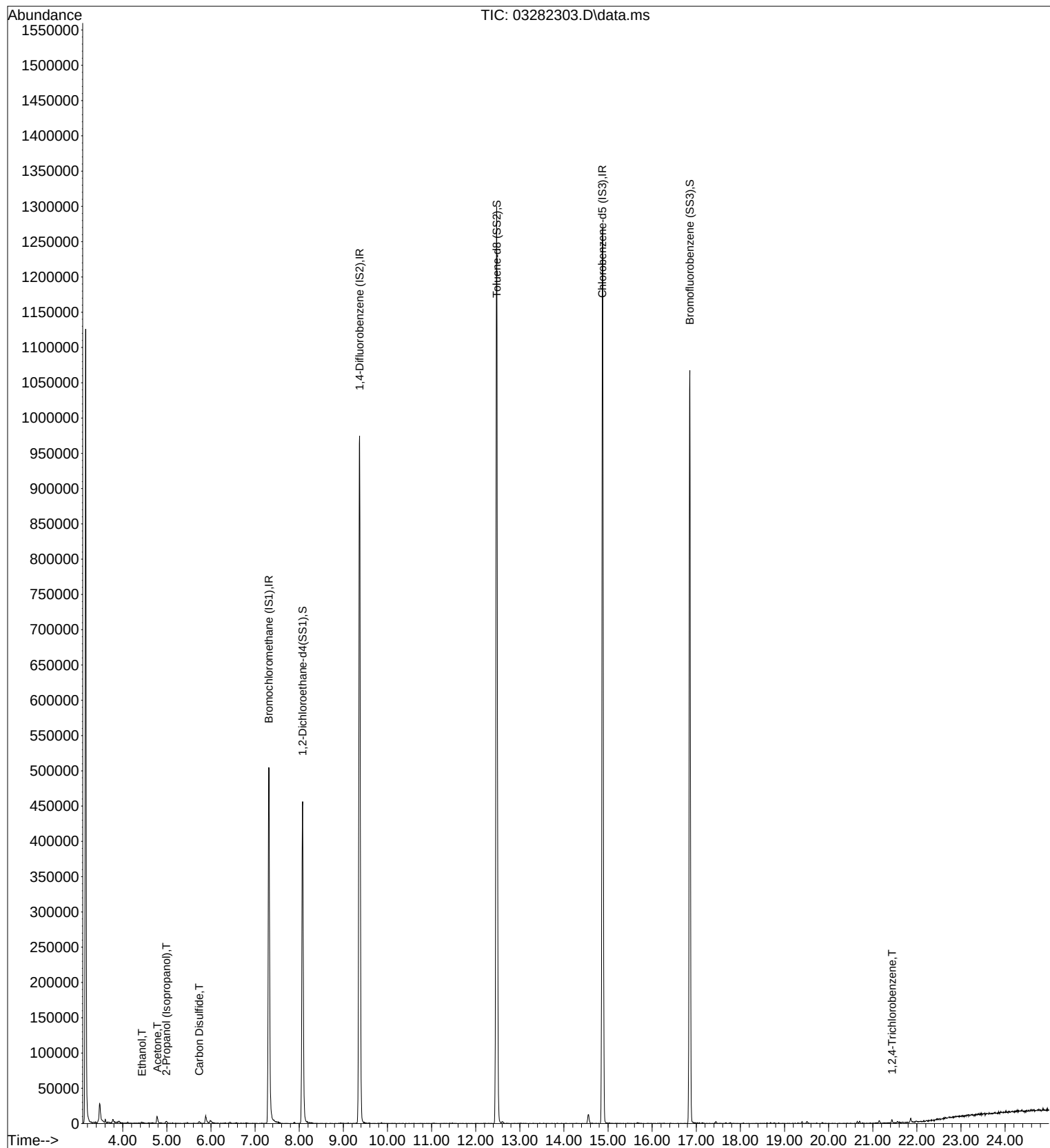
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.61	91	3020	N.D.		
59) 2-Hexanone	13.01	43	645	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.85	43	495	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	14.93	112	159	N.D.		
66) Ethylbenzene	15.45	91	490	N.D.		
67) m- & p-Xylenes	15.66	91	1320	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	16.28	91	249	N.D.		
71) n-Nonane	0.00	43	0	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	0.00	105	0	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	17.76	91	1543	N.D.		
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.96	105	257	N.D.		
79) 1,3,5-Trimethylbenzene	18.07	105	143	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.62	105	277	N.D.		
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	18.76	91	1150	N.D.		
85) 1,3-Dichlorobenzene	18.78	146	222	N.D.		
86) 1,4-Dichlorobenzene	18.87	146	470	N.D.		
87) sec-Butylbenzene	18.96	105	252	N.D.		
88) 4-Isopropyltoluene (p-...	19.18	119	535	N.D.		
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	19.31	146	419	N.D.		
91) d-Limonene	0.00	68	0	N.D.		
92) 1,2-Dibromo-3-Chloropr...	19.86	157	276	N.D.		
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	21.44	180	2339	0.062 ng	#	88
95) Naphthalene	21.55	128	3377	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	21.99	225	530	N.D.		
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	18.59	119	127	N.D.		
100) n-Butylbenzene	19.72	91	387	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\28\03282303.D
Acq On : 28 Mar 2023 4:13
Sample : MB R13032823 1000mL
Misc : S35-01202301_AS01837

Vial: 1
Operator: TZ
Inst : MS13

Quant Time: Mar 28 08:04:02 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\28\03282303.D
 Acq On : 28 Mar 2023 4:13
 Sample : MB R13032823 1000mL
 Misc : S35-01202301_AS01837

Vial: 1
 Operator: TZ
 Inst : MS13

TZ 3/28/23

Quant Time: Mar 28 08:09:09 2023
 Quant Method : I:\MS13\METHODS\C13022823.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Mar 01 07:58:55 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	7.32	130	217428	12.500	ng	0.00
16) 1,4-Difluorobenzene (C_2)	9.37	114	974451	12.500	ng	-0.01
19) Chlorobenzene-d5 (C_3)	14.87	54	183462	12.500	ng	0.00

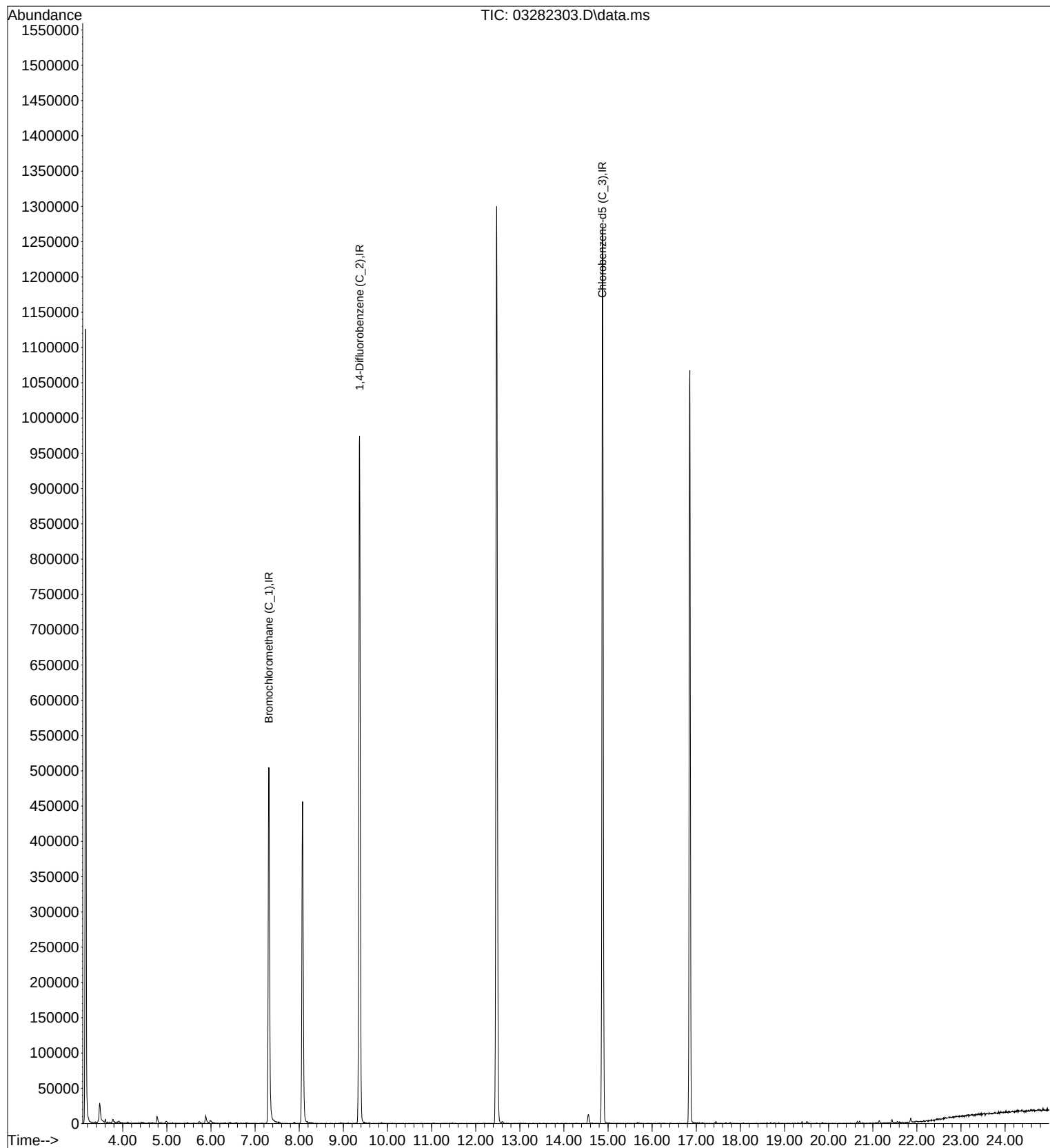
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	0.00	85	0	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.33	83	73	N.D.		
4) 1,1-Difluoroethane	3.39	65	502	N.D.		
5) Chlorodifluoromethane ...	0.00	67	0	N.D.		
6) 1-Chloro-1,1-Difluoroe...	3.64	65	434	N.D.		
7) Dichlorofluoromethane ...	4.37	67	480	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	4.67	83	201	N.D.		
10) 2-Methylbutane	4.79	57	424	N.D.		
11) Methyl Acetate	5.46	43	462	N.D.		
12) 2-Methylpentane	6.59	71	173	N.D.		
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	8.82	75	52	N.D.		
15) Thiophene	9.11	84	292	N.D.		
17) 2,3-Dimethylpentane	9.60	56	193	N.D.		
18) Dibromomethane	9.87	174	472	N.D.		
20) Methyl Cyclohexane	11.48	55	340	N.D.		
21) 1,3-Dichloropropane	12.63	76	146	N.D.		
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	0.00	91	0	N.D.		
24) 1,2,3-Trichloropropane	16.43	75	393	N.D.		
25) Bromobenzene	17.13	77	493	N.D.		
26) 2-Chlorotoluene	17.67	91	1160	N.D.		
27) 4-Chlorotoluene	17.76	91	1543	N.D.		
28) Indane	19.39	117	1777	N.D.		
29) Indene	19.51	115	2161	N.D.		
30) 1,2,4,5-Tetramethylben...	20.65	119	2020	N.D.		
31) 1,2,3,4-Tetramethylben...	20.70	119	2372	N.D.		
32) 1,2,3,5-Tetramethylben...	21.14	119	2516	N.D.		
33) 1,2,3-Trichlorobenzene	21.86	180	2213	N.D.		

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

Data File : I:\MS13\DATA\2023_03\28\03282303.D
Acq On : 28 Mar 2023 4:13
Sample : MB R13032823 1000mL
Misc : S35-01202301_AS01837

Vial: 1
Operator: TZ
Inst : MS13

Quant Time: Mar 28 08:09:09 2023
Quant Method : I:\MS13\METHODS\C13022823.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Mar 01 07:58:55 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

Client: WSP USA Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250
 ALS Sample ID: P230323-DLCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Topacio Zavala
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/23/23
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
75-71-8	Dichlorodifluoromethane (CFC 12)	212	184	186	87	88	71-112	1	25	
74-87-3	Chloromethane	210	180	185	86	88	53-126	2	25	
75-01-4	Vinyl Chloride	210	177	188	84	90	63-123	7	25	
74-83-9	Bromomethane	210	179	183	85	87	71-112	2	25	
75-00-3	Chloroethane	212	182	187	86	88	66-117	2	25	
67-64-1	Acetone	1,060	875	898	83	85	60-117	2	25	
75-69-4	Trichlorofluoromethane	210	184	185	88	88	71-114	0	25	
75-35-4	1,1-Dichloroethene	204	183	188	90	92	74-114	2	25	
75-09-2	Methylene Chloride	204	181	185	89	91	75-112	2	25	
76-13-1	Trichlorotrifluoroethane	210	185	188	88	90	73-114	2	25	
75-15-0	Carbon Disulfide	430	341	349	79	81	70-113	3	25	
156-60-5	trans-1,2-Dichloroethene	216	192	196	89	91	76-119	2	25	
75-34-3	1,1-Dichloroethane	216	182	186	84	86	70-114	2	25	
1634-04-4	Methyl tert-Butyl Ether	216	185	190	86	88	72-118	2	25	
78-93-3	2-Butanone (MEK)	414	372	381	90	92	74-121	2	25	
156-59-2	cis-1,2-Dichloroethene	214	182	185	85	86	73-117	1	25	
67-66-3	Chloroform	216	184	187	85	87	71-114	2	25	
107-06-2	1,2-Dichloroethane	204	196	199	96	98	71-119	2	25	
71-55-6	1,1,1-Trichloroethane	210	188	189	90	90	73-119	0	25	
71-43-2	Benzene	204	187	187	92	92	72-113	0	25	
56-23-5	Carbon Tetrachloride	210	202	200	96	95	67-123	1	25	
110-82-7	Cyclohexane	426	367	369	86	87	70-119	1	25	
78-87-5	1,2-Dichloropropane	214	184	186	86	87	70-118	1	25	
75-27-4	Bromodichloromethane	216	193	193	89	89	74-119	0	25	
79-01-6	Trichloroethene	212	187	187	88	88	74-115	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

Client: WSP USA Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250
 ALS Sample ID: P230323-DLCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Topacio Zavala
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/23/23
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
10061-01-5	cis-1,3-Dichloropropene	212	214	214	101	101	81-126	0	25	
108-10-1	4-Methyl-2-pentanone	426	393	398	92	93	73-129	1	25	
10061-02-6	trans-1,3-Dichloropropene	196	182	182	93	93	80-127	0	25	
79-00-5	1,1,2-Trichloroethane	216	187	187	87	87	78-117	0	25	
108-88-3	Toluene	214	174	178	81	83	70-118	2	25	
591-78-6	2-Hexanone	426	380	388	89	91	74-132	2	25	
124-48-1	Dibromochloromethane	214	191	194	89	91	69-137	2	25	
106-93-4	1,2-Dibromoethane	204	181	184	89	90	76-128	1	25	
127-18-4	Tetrachloroethene	214	180	185	84	86	63-130	2	25	
108-90-7	Chlorobenzene	216	180	184	83	85	70-118	2	25	
100-41-4	Ethylbenzene	218	171	175	78	80	71-123	3	25	
179601-23-1	m,p-Xylenes	430	344	349	80	81	67-127	1	25	
75-25-2	Bromoform	218	201	203	92	93	65-149	1	25	
100-42-5	Styrene	214	189	193	88	90	76-132	2	25	
95-47-6	o-Xylene	216	179	181	83	84	69-124	1	25	
79-34-5	1,1,2,2-Tetrachloroethane	216	192	195	89	90	69-128	1	25	
98-82-8	Cumene	212	180	183	85	86	69-125	1	25	
541-73-1	1,3-Dichlorobenzene	214	182	186	85	87	67-136	2	25	
106-46-7	1,4-Dichlorobenzene	214	178	182	83	85	63-134	2	25	
95-50-1	1,2-Dichlorobenzene	212	183	185	86	87	64-139	1	25	
96-12-8	1,2-Dibromo-3-chloropropane	416	383	396	92	95	72-145	3	25	
120-82-1	1,2,4-Trichlorobenzene	440	395	420	90	95	62-154	5	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Data File : I:\MS13\DATA\2023_03\23\03232304.D
 Acq On : 23 Mar 2023 2:49
 Sample : LCS R13032323 25ng
 Misc : S35-01202301/S35-02242304 (3/26)

Vial: 1
 Operator: TZ
 Inst : MS13

Tz 3/23/23

Quant Time: Mar 23 07:31:24 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.36	130	241425	12.500	ng	0.00
37) 1,4-Difluorobenzene (IS2)	9.40	114	1051948	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	14.88	54	189790	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.11	65	399068	12.456	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	99.68%
57) Toluene-d8 (SS2)	12.49	98	1180745	12.097	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	96.80%
73) Bromofluorobenzene (SS3)	16.86	174	440799	12.330	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	98.64%

Target Compounds

						Qvalue
2) Propene	3.37	42	507308	21.010	ng	99
3) Dichlorodifluoromethan...	3.45	85	1016525	22.988	ng	100
4) Chloromethane	3.59	50	716202	22.459	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	3.70	135	515974	23.111	ng	100
6) Vinyl Chloride	3.78	62	653102	22.116	ng	100
7) 1,3-Butadiene	3.90	54	492382	22.009	ng	100
8) Bromomethane	4.12	94	443925	22.433	ng	100
9) Chloroethane	4.26	64	317796	22.752	ng	99
10) Ethanol	4.45	45	1827145	106.563	ng	100
11) Acetonitrile	4.58	41	879406	19.741	ng	100
12) Acrolein	4.65	56	680888	48.018	ng	100
13) Acetone	4.76	58	1599903	109.330	ng	99
14) Trichlorofluoromethane	4.86	101	915177	22.989	ng	99
15) 2-Propanol (Isopropanol)	4.99	45	2688016	45.500	ng	100
16) Acrylonitrile	5.14	53	1255463	44.973	ng	100
17) 1,1-Dichloroethene	5.36	96	468333	22.909	ng	98
18) 2-Methyl-2-Propanol (t...	5.46	59	2674721	46.298	ng	100
19) Methylene Chloride	5.49	84	484840	22.601	ng	98
20) 3-Chloro-1-propene (Al...	5.56	41	702980	20.522	ng	99
21) Trichlorotrifluoroethane	5.68	151	483603	23.103	ng	99
22) Carbon Disulfide	5.71	76	3618919	42.602	ng	100
23) trans-1,2-Dichloroethene	6.26	61	749777	23.946	ng	99
24) 1,1-Dichloroethane	6.44	63	870025	22.788	ng	99
25) Methyl tert-Butyl Ether	6.47	73	1549099	23.150	ng	100
26) Vinyl Acetate	6.56	86	543100	137.248	ng	# 96
27) 2-Butanone (MEK)	6.78	72	603699	46.471	ng	97
28) cis-1,2-Dichloroethene	7.20	61	701832	22.759	ng	100
29) Diisopropyl Ether	7.38	87	722826	44.798	ng	# 35
30) Ethyl Acetate	7.39	61	338876	39.670	ng	98
31) n-Hexane	7.39	57	745811	22.683	ng	99
32) Chloroform	7.49	83	894370	22.994	ng	100
34) Tetrahydrofuran (THF)	7.86	72	560070	41.978	ng	100
35) Ethyl tert-Butyl Ether	7.92	87	1146743	46.530	ng	99
36) 1,2-Dichloroethane	8.23	62	720979	24.472	ng	100
38) 1,1,1-Trichloroethane	8.50	97	819679	23.541	ng	100
39) Isopropyl Acetate	9.40	61	28987	No Calib		
40) 1-Butanol	8.90	56	1470	No Calib	#	
41) Benzene	9.00	78	1910806	23.350	ng	100
42) Carbon Tetrachloride	9.16	117	775633	25.252	ng	99
43) Cyclohexane	9.30	84	1375089	45.836	ng	98
44) tert-Amyl Methyl Ether	9.68	73	2833375	47.741	ng	100
45) 1,2-Dichloropropane	9.94	63	474974	23.005	ng	99
46) Bromodichloromethane	10.16	83	729871	24.120	ng	100
47) Trichloroethene	10.23	130	559823	23.351	ng	100
48) 1,4-Dioxane	10.20	88	387309	23.478	ng	99
49) 2,2,4-Trimethylpentane...	10.31	57	1877401	22.561	ng	100
50) Methyl Methacrylate	10.48	100	403717	47.974	ng	97

Data File : I:\MS13\DATA\2023_03\23\03232304.D
 Acq On : 23 Mar 2023 2:49
 Sample : LCS R13032323 25ng
 Misc : S35-01202301/S35-02242304 (3/26)

Vial: 1
 Operator: TZ
 Inst : MS13

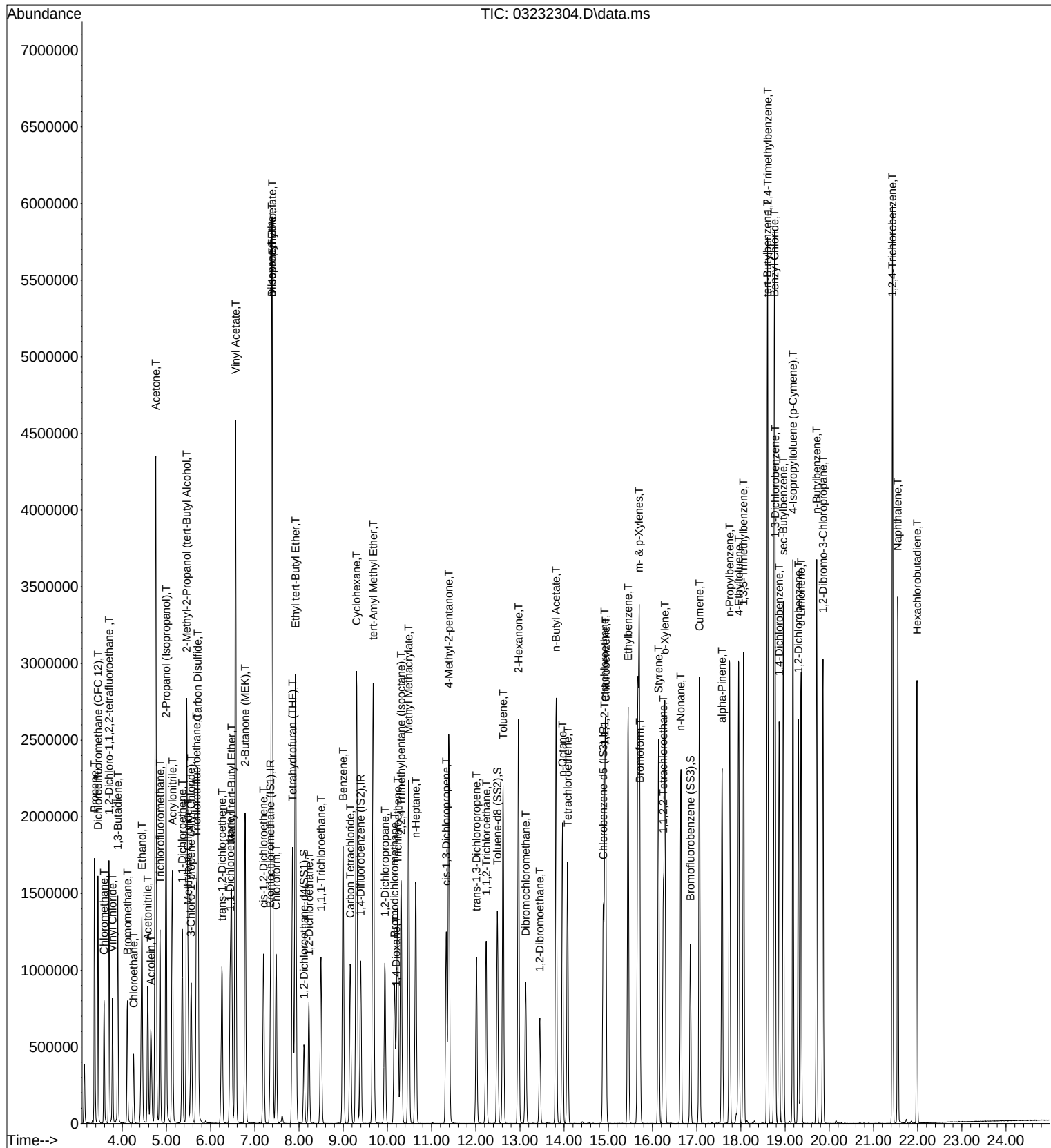
Quant Time: Mar 23 07:31:24 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.64	71	466199	23.542	ng	99
52) cis-1,3-Dichloropropene	11.33	75	897115	26.739	ng	100
53) 4-Methyl-2-pentanone	11.39	58	866272	49.101	ng	99
54) trans-1,3-Dichloropropene	12.02	75	739712	22.762	ng	99
55) 1,1,2-Trichloroethane	12.24	97	494851	23.363	ng	100
58) Toluene	12.62	91	2025824	21.802	ng	100
59) 2-Hexanone	12.97	43	2142598	47.472	ng	99
60) Dibromochloromethane	13.13	129	650703	23.862	ng	100
61) 1,2-Dibromoethane	13.45	107	586867	22.687	ng	100
62) n-Butyl Acetate	13.82	43	2418700	47.142	ng	99
63) n-Octane	13.96	57	406400	22.242	ng	99
64) Tetrachloroethene	14.08	166	637433	22.550	ng	98
65) Chlorobenzene	14.94	112	1380708	22.528	ng	100
66) Ethylbenzene	15.45	91	2366467	21.349	ng	100
67) m- & p-Xylenes	15.69	91	3833505	42.969	ng	100
68) Bromoform	15.72	173	619218	25.134	ng	99
69) Styrene	16.14	104	1447561	23.598	ng	99
70) o-Xylene	16.28	91	1905414	22.336	ng	100
71) n-Nonane	16.64	43	966465	23.412	ng	99
72) 1,1,2,2-Tetrachloroethane	16.24	83	882688	23.952	ng	100
74) Cumene	17.06	105	2337000	22.524	ng	100
75) alpha-Pinene	17.58	93	1113158	23.254	ng	100
76) n-Propylbenzene	17.75	91	2830840	22.759	ng	100
77) 3-Ethyltoluene	17.35	105	481	No Calib	#	
78) 4-Ethyltoluene	17.95	105	2336605	23.477	ng	100
79) 1,3,5-Trimethylbenzene	18.06	105	2005719	22.789	ng	100
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.35	105	481	No Calib	#	
82) 1,2,4-Trimethylbenzene	18.61	105	2007494	23.131	ng	99
83) n-Decane	17.06	58	17050	No Calib		
84) Benzyl Chloride	18.76	91	3684233	52.467	ng	100
85) 1,3-Dichlorobenzene	18.78	146	1197364	22.809	ng	100
86) 1,4-Dichlorobenzene	18.86	146	1212114	22.295	ng	100
87) sec-Butylbenzene	18.96	105	2591183	22.635	ng	100
88) 4-Isopropyltoluene (p-...	19.18	119	2285961	22.719	ng	99
89) 1,2,3-Trimethylbenzene	17.35	105	481	No Calib	#	
90) 1,2-Dichlorobenzene	19.30	146	1185843	22.825	ng	100
91) d-Limonene	19.36	68	690294	23.522	ng	100
92) 1,2-Dibromo-3-Chloropr...	19.86	157	940679	47.816	ng	98
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	21.43	180	1931107	49.420	ng	100
95) Naphthalene	21.55	128	2557153	27.182	ng	100
96) n-Dodecane	19.18	58	74550	No Calib		
97) Hexachlorobutadiene	21.99	225	594429	19.620	ng	99
98) Cyclohexanone	15.67	55	2590	No Calib		
99) tert-Butylbenzene	18.60	119	1796753	22.052	ng	99
100) n-Butylbenzene	19.72	91	2099768	23.592	ng	99
101) 1,1,1,2-Tetrachloroethane	14.92	131	539325	23.345	ng	100

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

Vial: 1
Operator: TZ
Inst : MS13

Quant Time: Mar 23 07:31:24 2023



Data File : I:\MS13\DATA\2023_03\23\03232305.D

Vial: 1

TZ 3/23/23

Acq On : 23 Mar 2023 3:24

Operator: TZ

Sample : LCSD R13032323 25ng

Inst : MS13

Misc : S35-01202301/S35-02242304 (3/26)

Quant Time: Mar 23 07:31:26 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.36	130	241434	12.500	ng	0.00
37) 1,4-Difluorobenzene (IS2)	9.40	114	1067971	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	14.88	54	189651	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.12	65	400190	12.490	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	99.92%
57) Toluene-d8 (SS2)	12.49	98	1200379	12.307	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	98.48%
73) Bromofluorobenzene (SS3)	16.86	174	439879	12.314	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	98.48%

Target Compounds

						Qvalue
2) Propene	3.38	42	516900	21.406	ng	99
3) Dichlorodifluoromethan...	3.46	85	1030703	23.308	ng	100
4) Chloromethane	3.59	50	736300	23.089	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	3.71	135	523792	23.460	ng	100
6) Vinyl Chloride	3.79	62	692397	23.446	ng	100
7) 1,3-Butadiene	3.91	54	511038	22.842	ng	100
8) Bromomethane	4.12	94	453103	22.896	ng	100
9) Chloroethane	4.26	64	325938	23.334	ng	99
10) Ethanol	4.45	45	1880486	109.670	ng	100
11) Acetonitrile	4.58	41	901478	20.235	ng	99
12) Acrolein	4.65	56	698231	49.239	ng	100
13) Acetone	4.76	58	1642023	112.204	ng	100
14) Trichlorofluoromethane	4.86	101	918249	23.065	ng	99
15) 2-Propanol (Isopropanol)	4.99	45	2757847	46.681	ng	100
16) Acrylonitrile	5.14	53	1291571	46.265	ng	99
17) 1,1-Dichloroethene	5.36	96	481229	23.539	ng	100
18) 2-Methyl-2-Propanol (t...	5.46	59	2724828	47.164	ng	100
19) Methylene Chloride	5.49	84	496956	23.164	ng	100
20) 3-Chloro-1-propene (Al...	5.56	41	715748	20.894	ng	100
21) Trichlorotrifluoroethane	5.68	151	492595	23.532	ng	100
22) Carbon Disulfide	5.72	76	3701580	43.573	ng	100
23) trans-1,2-Dichloroethene	6.26	61	768353	24.539	ng	98
24) 1,1-Dichloroethane	6.44	63	889315	23.292	ng	100
25) Methyl tert-Butyl Ether	6.47	73	1586210	23.703	ng	100
26) Vinyl Acetate	6.57	86	553433	139.854	ng	# 96
27) 2-Butanone (MEK)	6.79	72	619458	47.683	ng	98
28) cis-1,2-Dichloroethene	7.20	61	713201	23.126	ng	99
29) Diisopropyl Ether	7.38	87	742962	46.044	ng	# 34
30) Ethyl Acetate	7.39	61	348829	40.834	ng	100
31) n-Hexane	7.39	57	761392	23.156	ng	98
32) Chloroform	7.49	83	907727	23.336	ng	100
34) Tetrahydrofuran (THF)	7.86	72	568804	42.632	ng	98
35) Ethyl tert-Butyl Ether	7.92	87	1167604	47.374	ng	100
36) 1,2-Dichloroethane	8.23	62	734393	24.927	ng	99
38) 1,1,1-Trichloroethane	8.50	97	835626	23.639	ng	99
39) Isopropyl Acetate	9.40	61	29459	No Calib		
40) 1-Butanol	8.90	56	1569	No Calib	#	
41) Benzene	9.00	78	1947094	23.436	ng	100
42) Carbon Tetrachloride	9.16	117	781453	25.060	ng	99
43) Cyclohexane	9.31	84	1405632	46.151	ng	98
44) tert-Amyl Methyl Ether	9.68	73	2907677	48.258	ng	100
45) 1,2-Dichloropropane	9.94	63	487183	23.242	ng	100
46) Bromodichloromethane	10.16	83	739240	24.063	ng	100
47) Trichloroethene	10.23	130	567598	23.320	ng	99
48) 1,4-Dioxane	10.20	88	400146	23.892	ng	100
49) 2,2,4-Trimethylpentane...	10.31	57	1963780	23.245	ng	99
50) Methyl Methacrylate	10.49	100	409877	47.976	ng	96

Data File : I:\MS13\DATA\2023_03\23\03232305.D
 Acq On : 23 Mar 2023 3:24
 Sample : LCSD R13032323 25ng
 Misc : S35-01202301/S35-02242304 (3/26)

Vial: 1
 Operator: TZ
 Inst : MS13

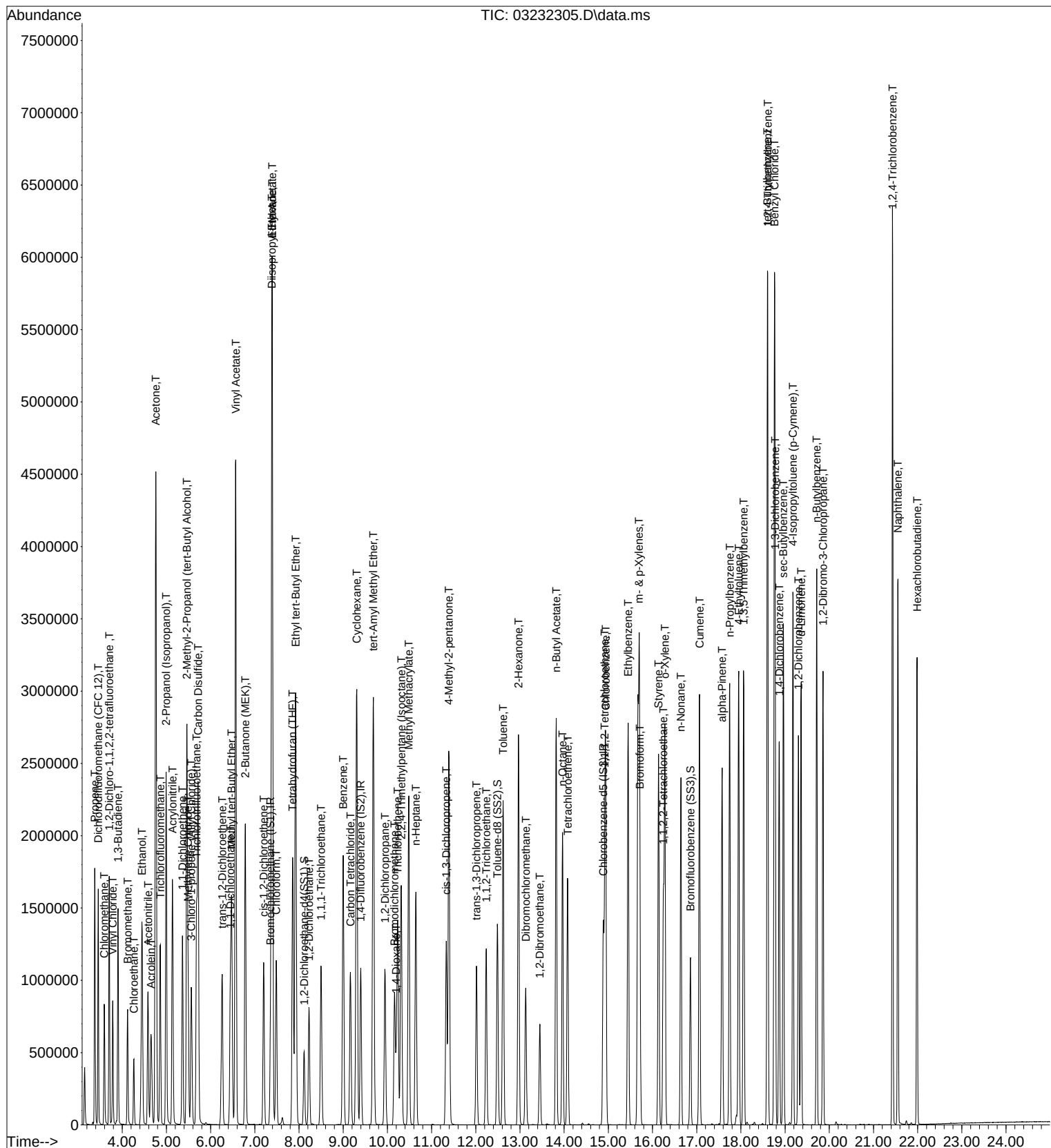
Quant Time: Mar 23 07:31:26 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.64	71	473810	23.568	ng	99
52) cis-1,3-Dichloropropene	11.33	75	912854	26.800	ng	100
53) 4-Methyl-2-pentanone	11.39	58	891363	49.765	ng	99
54) trans-1,3-Dichloropropene	12.02	75	750787	22.756	ng	100
55) 1,1,2-Trichloroethane	12.24	97	502758	23.380	ng	100
58) Toluene	12.62	91	2061025	22.197	ng	100
59) 2-Hexanone	12.97	43	2187537	48.503	ng	99
60) Dibromochloromethane	13.13	129	660861	24.252	ng	100
61) 1,2-Dibromoethane	13.45	107	595217	23.027	ng	100
62) n-Butyl Acetate	13.82	43	2480373	48.380	ng	99
63) n-Octane	13.96	57	416291	22.800	ng	99
64) Tetrachloroethene	14.08	166	651897	23.079	ng	100
65) Chlorobenzene	14.94	112	1406072	22.959	ng	100
66) Ethylbenzene	15.45	91	2416586	21.817	ng	100
67) m- & p-Xylenes	15.69	91	3889475	43.629	ng	100
68) Bromoform	15.72	173	623708	25.335	ng	100
69) Styrene	16.14	104	1480960	24.160	ng	100
70) o-Xylene	16.28	91	1930520	22.647	ng	100
71) n-Nonane	16.64	43	980875	23.779	ng	99
72) 1,1,2,2-Tetrachloroethane	16.24	83	899874	24.437	ng	99
74) Cumene	17.06	105	2372653	22.885	ng	100
75) alpha-Pinene	17.58	93	1170819	24.476	ng	99
76) n-Propylbenzene	17.75	91	2877222	23.149	ng	100
77) 3-Ethyltoluene	17.35	105	675	No Calib	#	
78) 4-Ethyltoluene	17.95	105	2390656	24.037	ng	100
79) 1,3,5-Trimethylbenzene	18.06	105	2047194	23.277	ng	100
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.35	105	675	No Calib	#	
82) 1,2,4-Trimethylbenzene	18.61	105	2044211	23.572	ng	100
83) n-Decane	17.06	58	18064	No Calib		
84) Benzyl Chloride	18.76	91	3769894	53.726	ng	100
85) 1,3-Dichlorobenzene	18.78	146	1216673	23.194	ng	100
86) 1,4-Dichlorobenzene	18.87	146	1238030	22.788	ng	99
87) sec-Butylbenzene	18.96	105	2670324	23.343	ng	100
88) 4-Isopropyltoluene (p-...	19.18	119	2330947	23.183	ng	100
89) 1,2,3-Trimethylbenzene	17.35	105	675	No Calib	#	
90) 1,2-Dichlorobenzene	19.30	146	1203150	23.175	ng	100
91) d-Limonene	19.36	68	719961	24.551	ng	100
92) 1,2-Dibromo-3-Chloropr...	19.86	157	972974	49.494	ng	99
93) n-Undecane	18.30	58	388	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	2051302	52.535	ng	100
95) Naphthalene	21.55	128	2846811	30.283	ng	100
96) n-Dodecane	19.18	58	77771	No Calib		
97) Hexachlorobutadiene	21.99	225	648305	21.414	ng	100
98) Cyclohexanone	15.66	55	1212	No Calib	#	
99) tert-Butylbenzene	18.60	119	1891635	23.234	ng	99
100) n-Butylbenzene	19.72	91	2140904	24.072	ng	99
101) 1,1,1,2-Tetrachloroethane	14.92	131	545851	23.645	ng	100

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

Vial: 1
Operator: TZ
Inst : MS13

Quant Time: Mar 23 07:31:26 2023



ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

Client: WSP USA Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250
 ALS Sample ID: P230324-DLCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Topacio Zavala
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/24/23
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
75-71-8	Dichlorodifluoromethane (CFC 12)	212	184	185	87	87	71-112	0	25	
74-87-3	Chloromethane	210	185	185	88	88	53-126	0	25	
75-01-4	Vinyl Chloride	210	182	184	87	88	63-123	1	25	
74-83-9	Bromomethane	210	182	182	87	87	71-112	0	25	
75-00-3	Chloroethane	212	185	186	87	88	66-117	1	25	
67-64-1	Acetone	1,060	897	903	85	85	60-117	0	25	
75-69-4	Trichlorofluoromethane	210	182	182	87	87	71-114	0	25	
75-35-4	1,1-Dichloroethene	204	184	187	90	92	74-114	2	25	
75-09-2	Methylene Chloride	204	183	184	90	90	75-112	0	25	
76-13-1	Trichlorotrifluoroethane	210	182	182	87	87	73-114	0	25	
75-15-0	Carbon Disulfide	430	346	347	80	81	70-113	1	25	
156-60-5	trans-1,2-Dichloroethene	216	194	196	90	91	76-119	1	25	
75-34-3	1,1-Dichloroethane	216	186	187	86	87	70-114	1	25	
1634-04-4	Methyl tert-Butyl Ether	216	188	188	87	87	72-118	0	25	
78-93-3	2-Butanone (MEK)	414	379	378	92	91	74-121	1	25	
156-59-2	cis-1,2-Dichloroethene	214	186	185	87	86	73-117	1	25	
67-66-3	Chloroform	216	184	186	85	86	71-114	1	25	
107-06-2	1,2-Dichloroethane	204	198	198	97	97	71-119	0	25	
71-55-6	1,1,1-Trichloroethane	210	188	188	90	90	73-119	0	25	
71-43-2	Benzene	204	189	189	93	93	72-113	0	25	
56-23-5	Carbon Tetrachloride	210	201	200	96	95	67-123	1	25	
110-82-7	Cyclohexane	426	370	371	87	87	70-119	0	25	
78-87-5	1,2-Dichloropropane	214	186	187	87	87	70-118	0	25	
75-27-4	Bromodichloromethane	216	193	194	89	90	74-119	1	25	
79-01-6	Trichloroethene	212	186	186	88	88	74-115	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

Client: WSP USA Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250
 ALS Sample ID: P230324-DLCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Topacio Zavala
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/24/23
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
10061-01-5	cis-1,3-Dichloropropene	212	215	215	101	101	81-126	0	25	
108-10-1	4-Methyl-2-pentanone	426	401	405	94	95	73-129	1	25	
10061-02-6	trans-1,3-Dichloropropene	196	184	183	94	93	80-127	1	25	
79-00-5	1,1,2-Trichloroethane	216	185	185	86	86	78-117	0	25	
108-88-3	Toluene	214	171	173	80	81	70-118	1	25	
591-78-6	2-Hexanone	426	383	388	90	91	74-132	1	25	
124-48-1	Dibromochloromethane	214	186	186	87	87	69-137	0	25	
106-93-4	1,2-Dibromoethane	204	177	179	87	88	76-128	1	25	
127-18-4	Tetrachloroethene	214	175	176	82	82	63-130	0	25	
108-90-7	Chlorobenzene	216	175	177	81	82	70-118	1	25	
100-41-4	Ethylbenzene	218	167	169	77	78	71-123	1	25	
179601-23-1	m,p-Xylenes	430	335	339	78	79	67-127	1	25	
75-25-2	Bromoform	218	192	194	88	89	65-149	1	25	
100-42-5	Styrene	214	185	187	86	87	76-132	1	25	
95-47-6	o-Xylene	216	175	177	81	82	69-124	1	25	
79-34-5	1,1,2,2-Tetrachloroethane	216	188	192	87	89	69-128	2	25	
98-82-8	Cumene	212	176	178	83	84	69-125	1	25	
541-73-1	1,3-Dichlorobenzene	214	177	179	83	84	67-136	1	25	
106-46-7	1,4-Dichlorobenzene	214	172	176	80	82	63-134	2	25	
95-50-1	1,2-Dichlorobenzene	212	177	180	83	85	64-139	2	25	
96-12-8	1,2-Dibromo-3-chloropropane	416	369	379	89	91	72-145	2	25	
120-82-1	1,2,4-Trichlorobenzene	440	387	402	88	91	62-154	3	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Data File : I:\MS13\DATA\2023_03\24\03242304.D

Vial: 1

Acq On : 24 Mar 2023 3:47

Operator: TZ

Sample : LCS R13032423 25ng

Inst : MS13

TZ 3/24/23

Misc : S35-01202301/S35-02242304 (3/26)

Quant Time: Mar 24 07:43:41 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.35	130	242748	12.500	ng	0.00
37) 1,4-Difluorobenzene (IS2)	9.39	114	1062031	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	14.88	54	195834	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.11	65	408306	12.675	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	101.36%
57) Toluene-d8 (SS2)	12.49	98	1199863	11.914	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	95.28%
73) Bromofluorobenzene (SS3)	16.86	174	438577	11.890	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	95.12%

Target Compounds

						Qvalue
2) Propene	3.37	42	530383	21.846	ng	100
3) Dichlorodifluoromethan...	3.45	85	1023756	23.025	ng	100
4) Chloromethane	3.59	50	740169	23.085	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	3.70	135	516338	23.001	ng	100
6) Vinyl Chloride	3.78	62	673884	22.696	ng	100
7) 1,3-Butadiene	3.90	54	505455	22.470	ng	100
8) Bromomethane	4.11	94	453433	22.789	ng	99
9) Chloroethane	4.25	64	324611	23.113	ng	100
10) Ethanol	4.44	45	1883709	109.263	ng	100
11) Acetonitrile	4.57	41	907502	20.260	ng	100
12) Acrolein	4.65	56	700403	49.125	ng	100
13) Acetone	4.75	58	1650096	112.146	ng	98
14) Trichlorofluoromethane	4.85	101	910228	22.740	ng	100
15) 2-Propanol (Isopropanol)	4.99	45	2796987	47.087	ng	100
16) Acrylonitrile	5.13	53	1297486	46.225	ng	99
17) 1,1-Dichloroethene	5.36	96	473825	23.051	ng	97
18) 2-Methyl-2-Propanol (t...	5.45	59	2738693	47.147	ng	100
19) Methylene Chloride	5.48	84	493990	22.902	ng	97
20) 3-Chloro-1-propene (Al...	5.56	41	727974	21.136	ng	98
21) Trichlorotrifluoroethane	5.68	151	478408	22.730	ng	98
22) Carbon Disulfide	5.71	76	3689143	43.192	ng	100
23) trans-1,2-Dichloroethene	6.26	61	765407	24.312	ng	98
24) 1,1-Dichloroethane	6.44	63	894000	23.288	ng	100
25) Methyl tert-Butyl Ether	6.47	73	1580566	23.491	ng	99
26) Vinyl Acetate	6.56	86	550459	138.350	ng	# 90
27) 2-Butanone (MEK)	6.78	72	618343	47.339	ng	94
28) cis-1,2-Dichloroethene	7.20	61	721186	23.259	ng	98
29) Diisopropyl Ether	7.38	87	733161	45.191	ng	# 39
30) Ethyl Acetate	7.39	61	347756	40.488	ng	100
31) n-Hexane	7.39	57	761618	23.038	ng	99
32) Chloroform	7.48	83	901142	23.042	ng	100
34) Tetrahydrofuran (THF)	7.86	72	560992	41.818	ng	94
35) Ethyl tert-Butyl Ether	7.92	87	1160832	46.844	ng	98
36) 1,2-Dichloroethane	8.22	62	732868	24.740	ng	99
38) 1,1,1-Trichloroethane	8.49	97	826342	23.507	ng	100
39) Isopropyl Acetate	9.39	61	30125	No Calib		
40) 1-Butanol	8.90	56	1621	No Calib	#	
41) Benzene	8.99	78	1947168	23.568	ng	100
42) Carbon Tetrachloride	9.16	117	780532	25.170	ng	100
43) Cyclohexane	9.30	84	1400627	46.244	ng	97
44) tert-Amyl Methyl Ether	9.68	73	2885590	48.159	ng	99
45) 1,2-Dichloropropane	9.94	63	485135	23.274	ng	99
46) Bromodichloromethane	10.16	83	738059	24.159	ng	99
47) Trichloroethene	10.23	130	562464	23.238	ng	100
48) 1,4-Dioxane	10.20	88	391752	23.521	ng	99
49) 2,2,4-Trimethylpentane...	10.31	57	1920939	22.865	ng	100
50) Methyl Methacrylate	10.48	100	403063	47.442	ng	94

Data File : I:\MS13\DATA\2023_03\24\03242304.D
 Acq On : 24 Mar 2023 3:47
 Sample : LCS R13032423 25ng
 Misc : S35-01202301/S35-02242304 (3/26)

Vial: 1
 Operator: TZ
 Inst : MS13

Quant Time: Mar 24 07:43:41 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.64	71	477451	23.881	ng	99
52) cis-1,3-Dichloropropene	11.33	75	908715	26.828	ng	100
53) 4-Methyl-2-pentanone	11.39	58	893920	50.187	ng	97
54) trans-1,3-Dichloropropene	12.02	75	752796	22.944	ng	99
55) 1,1,2-Trichloroethane	12.23	97	494846	23.141	ng	98
58) Toluene	12.62	91	2044151	21.320	ng	100
59) 2-Hexanone	12.97	43	2228044	47.842	ng	99
60) Dibromochloromethane	13.13	129	653342	23.219	ng	99
61) 1,2-Dibromoethane	13.44	107	589119	22.071	ng	99
62) n-Butyl Acetate	13.82	43	2519185	47.585	ng	99
63) n-Octane	13.96	57	416851	22.110	ng	98
64) Tetrachloroethene	14.08	166	637116	21.844	ng	100
65) Chlorobenzene	14.94	112	1385424	21.907	ng	100
66) Ethylbenzene	15.45	91	2381467	20.821	ng	100
67) m- & p-Xylenes	15.69	91	3852578	41.850	ng	100
68) Bromoform	15.72	173	611254	24.045	ng	99
69) Styrene	16.14	104	1461896	23.096	ng	99
70) o-Xylene	16.28	91	1921074	21.824	ng	99
71) n-Nonane	16.64	43	995681	23.376	ng	98
72) 1,1,2,2-Tetrachloroethane	16.24	83	893662	23.502	ng	100
74) Cumene	17.06	105	2350403	21.954	ng	100
75) alpha-Pinene	17.58	93	1110179	22.476	ng	99
76) n-Propylbenzene	17.74	91	2851538	22.218	ng	99
77) 3-Ethyltoluene	17.35	105	239	No Calib	#	
78) 4-Ethyltoluene	17.95	105	2346832	22.852	ng	100
79) 1,3,5-Trimethylbenzene	18.06	105	2021153	22.256	ng	99
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.35	105	239	No Calib	#	
82) 1,2,4-Trimethylbenzene	18.61	105	2009841	22.444	ng	100
83) n-Decane	17.06	58	18698	No Calib		
84) Benzyl Chloride	18.76	91	3711603	51.225	ng	100
85) 1,3-Dichlorobenzene	18.78	146	1200341	22.160	ng	100
86) 1,4-Dichlorobenzene	18.86	146	1207519	21.525	ng	100
87) sec-Butylbenzene	18.96	105	2610130	22.096	ng	100
88) 4-Isopropyltoluene (p-...	19.18	119	2295105	22.106	ng	99
89) 1,2,3-Trimethylbenzene	17.35	105	239	No Calib	#	
90) 1,2-Dichlorobenzene	19.30	146	1185455	22.113	ng	100
91) d-Limonene	19.36	68	708230	23.388	ng	99
92) 1,2-Dibromo-3-Chloropr...	19.86	157	936296	46.124	ng	96
93) n-Undecane	18.30	58	171	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	1951519	48.401	ng	99
95) Naphthalene	21.55	128	2658313	27.385	ng	100
96) n-Dodecane	19.18	58	81605	No Calib		
97) Hexachlorobutadiene	21.99	225	599727	19.184	ng	99
98) Cyclohexanone	15.67	55	1329	No Calib	#	
99) tert-Butylbenzene	18.60	119	1804134	21.460	ng	100
100) n-Butylbenzene	19.72	91	2125099	23.140	ng	99
101) 1,1,1,2-Tetrachloroethane	14.92	131	538477	22.589	ng	100

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

Vial: 1
Operator: TZ
Inst : MS13

Quant Time: Mar 24 07:43:41 2023

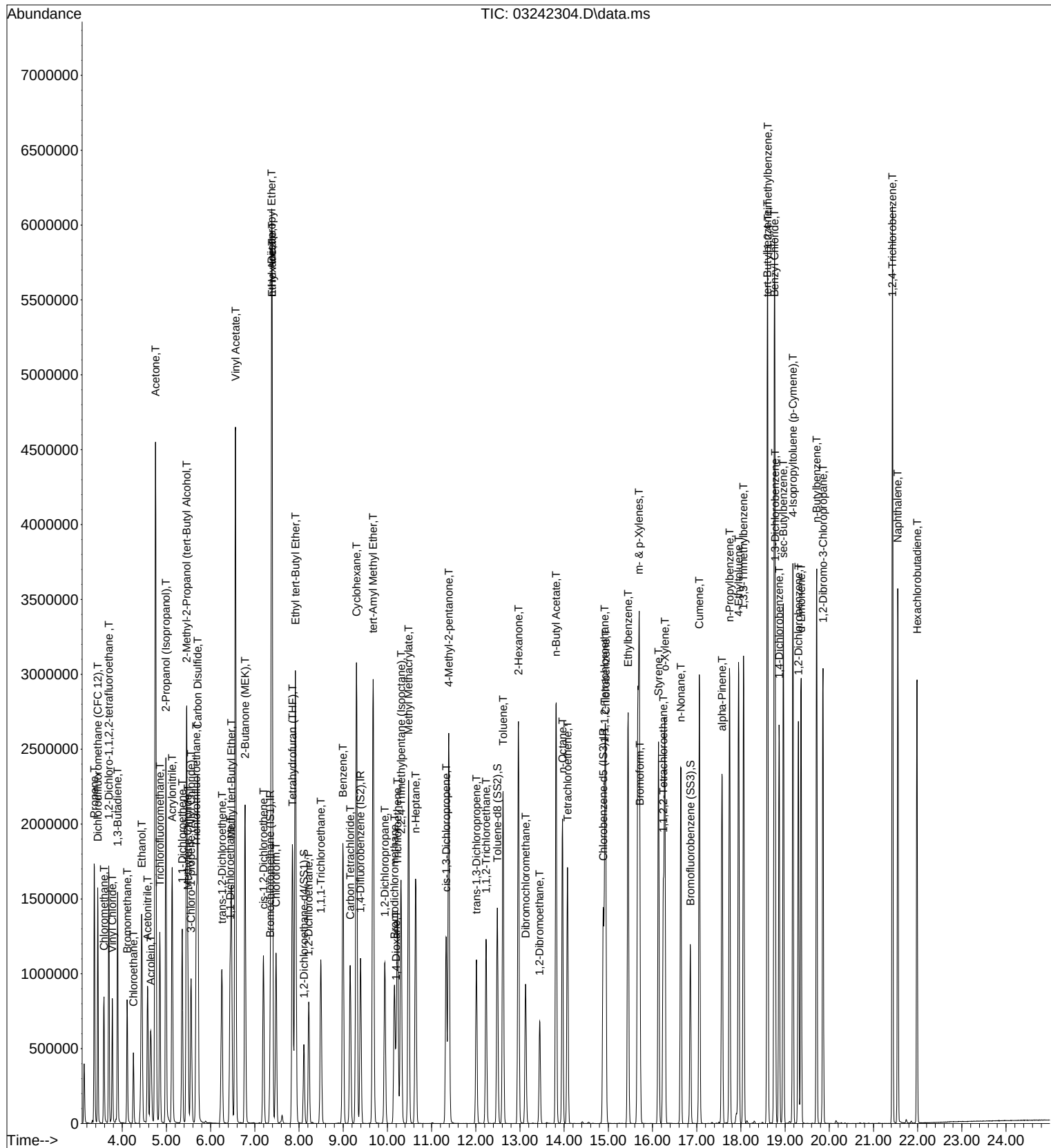
Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA T0-15 per SOP V0A-T015 (CASS T0-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M



Data File : I:\MS13\DATA\2023_03\24\03242305.D
 Acq On : 24 Mar 2023 4:23
 Sample : LCSD R13032423 25ng
 Misc : S35-01202301/S35-02242304 (3/26)

Vial: 1
 Operator: TZ
 Inst : MS13

TZ 3/24/23

Quant Time: Mar 24 07:43:43 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.36	130	245775	12.500	ng	0.00
37) 1,4-Difluorobenzene (IS2)	9.40	114	1075118	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	14.88	54	196120	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.11	65	412181	12.637	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	101.12%
57) Toluene-d8 (SS2)	12.49	98	1217912	12.075	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	96.64%
73) Bromofluorobenzene (SS3)	16.86	174	440477	11.924	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	95.36%

Target Compounds

						Qvalue
2) Propene	3.37	42	539784	21.959	ng	99
3) Dichlorodifluoromethan...	3.45	85	1042296	23.154	ng	99
4) Chloromethane	3.59	50	749616	23.091	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	3.70	135	522321	22.981	ng	100
6) Vinyl Chloride	3.78	62	691463	23.001	ng	100
7) 1,3-Butadiene	3.90	54	520223	22.842	ng	99
8) Bromomethane	4.12	94	458812	22.775	ng	99
9) Chloroethane	4.25	64	329786	23.193	ng	99
10) Ethanol	4.45	45	1939816	111.132	ng	100
11) Acetonitrile	4.58	41	934636	20.609	ng	100
12) Acrolein	4.65	56	714121	49.470	ng	100
13) Acetone	4.75	58	1680748	112.822	ng	99
14) Trichlorofluoromethane	4.86	101	921315	22.733	ng	100
15) 2-Propanol (Isopropanol)	4.99	45	2847388	47.345	ng	100
16) Acrylonitrile	5.14	53	1321579	46.504	ng	99
17) 1,1-Dichloroethene	5.36	96	485406	23.324	ng	98
18) 2-Methyl-2-Propanol (t...	5.46	59	2789625	47.433	ng	100
19) Methylene Chloride	5.49	84	501482	22.963	ng	97
20) 3-Chloro-1-propene (Al...	5.56	41	737874	21.159	ng	98
21) Trichlorotrifluoroethane	5.68	151	484239	22.724	ng	98
22) Carbon Disulfide	5.71	76	3748302	43.344	ng	100
23) trans-1,2-Dichloroethene	6.26	61	782847	24.560	ng	97
24) 1,1-Dichloroethane	6.44	63	907231	23.342	ng	100
25) Methyl tert-Butyl Ether	6.47	73	1599978	23.487	ng	99
26) Vinyl Acetate	6.56	86	559042	138.776	ng	# 90
27) 2-Butanone (MEK)	6.78	72	625289	47.281	ng	94
28) cis-1,2-Dichloroethene	7.20	61	726256	23.134	ng	98
29) Diisopropyl Ether	7.38	87	744671	45.335	ng	# 38
30) Ethyl Acetate	7.39	61	354170	40.727	ng	100
31) n-Hexane	7.39	57	774869	23.150	ng	99
32) Chloroform	7.48	83	919632	23.225	ng	100
34) Tetrahydrofuran (THF)	7.86	72	574756	42.317	ng	96
35) Ethyl tert-Butyl Ether	7.92	87	1173661	46.779	ng	97
36) 1,2-Dichloroethane	8.23	62	741973	24.739	ng	100
38) 1,1,1-Trichloroethane	8.50	97	834398	23.447	ng	99
39) Isopropyl Acetate	9.39	61	30076	No Calib		
40) 1-Butanol	8.90	56	1463	No Calib	#	
41) Benzene	8.99	78	1972374	23.582	ng	100
42) Carbon Tetrachloride	9.16	117	785164	25.011	ng	100
43) Cyclohexane	9.30	84	1422530	46.395	ng	97
44) tert-Amyl Methyl Ether	9.68	73	2936312	48.409	ng	99
45) 1,2-Dichloropropane	9.94	63	494172	23.419	ng	100
46) Bromodichloromethane	10.16	83	750745	24.275	ng	100
47) Trichloroethene	10.23	130	569029	23.223	ng	100
48) 1,4-Dioxane	10.20	88	402477	23.871	ng	99
49) 2,2,4-Trimethylpentane...	10.31	57	2019651	23.747	ng	100
50) Methyl Methacrylate	10.49	100	412756	47.992	ng	95

Data File : I:\MS13\DATA\2023_03\24\03242305.D
 Acq On : 24 Mar 2023 4:23
 Sample : LCSD R13032423 25ng
 Misc : S35-01202301/S35-02242304 (3/26)

Vial: 1
 Operator: TZ
 Inst : MS13

Quant Time: Mar 24 07:43:43 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

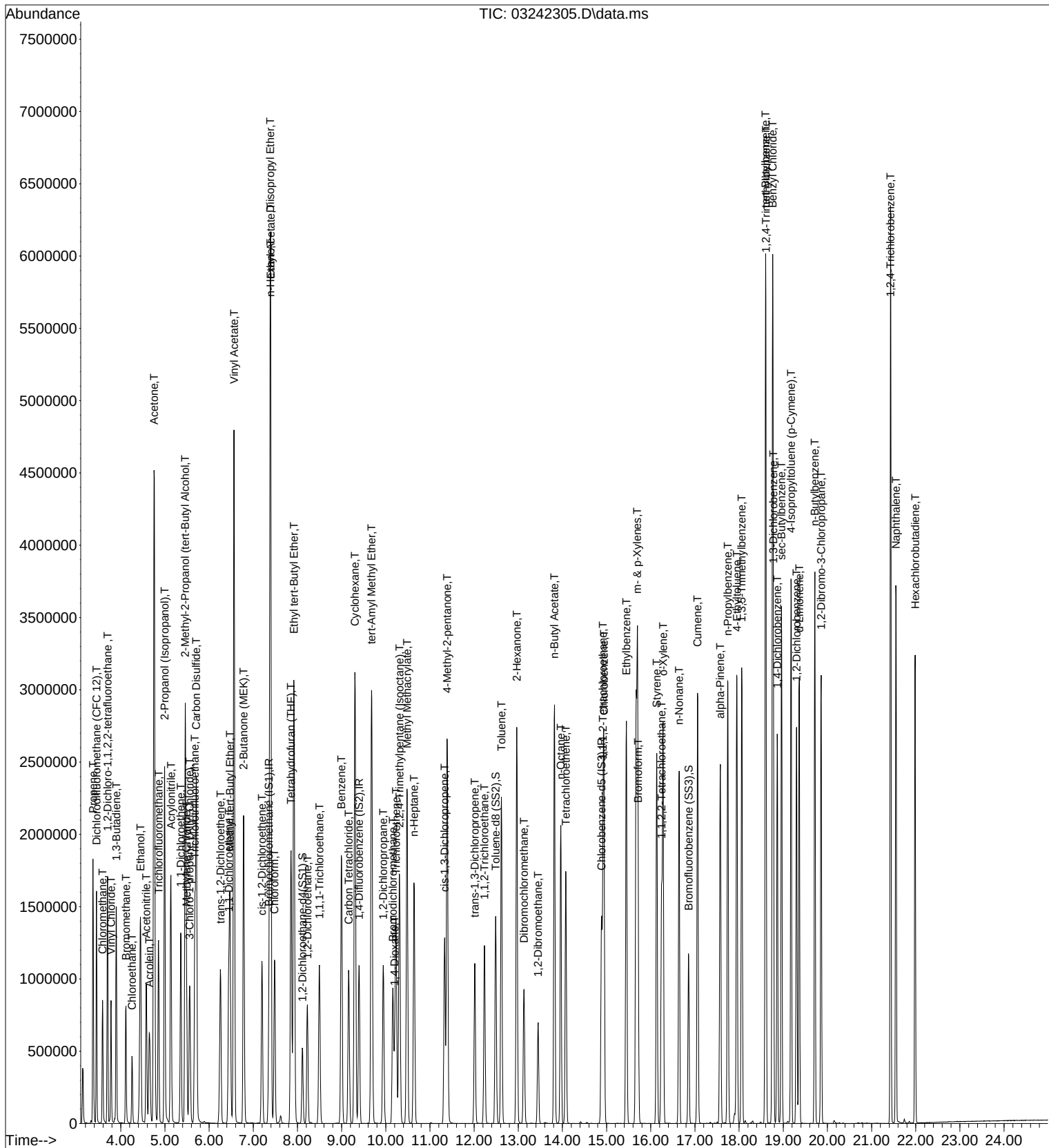
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.64	71	479382	23.686	ng	99
52) cis-1,3-Dichloropropene	11.33	75	923303	26.927	ng	100
53) 4-Methyl-2-pentanone	11.39	58	912527	50.608	ng	98
54) trans-1,3-Dichloropropene	12.02	75	757917	22.819	ng	100
55) 1,1,2-Trichloroethane	12.23	97	501300	23.157	ng	99
58) Toluene	12.62	91	2078226	21.644	ng	100
59) 2-Hexanone	12.97	43	2260816	48.475	ng	99
60) Dibromochloromethane	13.13	129	654365	23.222	ng	99
61) 1,2-Dibromoethane	13.45	107	596880	22.330	ng	99
62) n-Butyl Acetate	13.82	43	2561781	48.319	ng	99
63) n-Octane	13.96	57	424335	22.474	ng	97
64) Tetrachloroethene	14.08	166	644070	22.050	ng	99
65) Chlorobenzene	14.94	112	1404615	22.178	ng	99
66) Ethylbenzene	15.45	91	2424712	21.168	ng	99
67) m- & p-Xylenes	15.69	91	3906967	42.379	ng	100
68) Bromoform	15.72	173	618663	24.301	ng	100
69) Styrene	16.14	104	1485498	23.434	ng	100
70) o-Xylene	16.28	91	1953205	22.157	ng	99
71) n-Nonane	16.64	43	1015136	23.798	ng	97
72) 1,1,2,2-Tetrachloroethane	16.24	83	911862	23.945	ng	100
74) Cumene	17.06	105	2382339	22.220	ng	99
75) alpha-Pinene	17.58	93	1178966	23.833	ng	99
76) n-Propylbenzene	17.75	91	2890466	22.488	ng	100
77) 3-Ethyltoluene	17.34	105	499	No Calib	#	
78) 4-Ethyltoluene	17.95	105	2385622	23.196	ng	100
79) 1,3,5-Trimethylbenzene	18.06	105	2053970	22.584	ng	99
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.34	105	499	No Calib	#	
82) 1,2,4-Trimethylbenzene	18.61	105	2044912	22.802	ng	100
83) n-Decane	17.06	58	19241	No Calib		
84) Benzyl Chloride	18.76	91	3796840	52.325	ng	99
85) 1,3-Dichlorobenzene	18.78	146	1216769	22.431	ng	99
86) 1,4-Dichlorobenzene	18.86	146	1234558	21.975	ng	99
87) sec-Butylbenzene	18.96	105	2664973	22.528	ng	100
88) 4-Isopropyltoluene (p-...	19.18	119	2340892	22.514	ng	99
89) 1,2,3-Trimethylbenzene	17.34	105	499	No Calib	#	
90) 1,2-Dichlorobenzene	19.30	146	1207357	22.489	ng	99
91) d-Limonene	19.36	68	730829	24.099	ng	99
92) 1,2-Dibromo-3-Chloropr...	19.86	157	963755	47.408	ng	96
93) n-Undecane	18.30	58	204	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	2030349	50.283	ng	100
95) Naphthalene	21.55	128	2831218	29.124	ng	100
96) n-Dodecane	19.18	58	59502	No Calib		
97) Hexachlorobutadiene	21.99	225	648083	20.700	ng	100
98) Cyclohexanone	15.67	55	2344	No Calib	#	
99) tert-Butylbenzene	18.60	119	1904467	22.620	ng	100
100) n-Butylbenzene	19.72	91	2150448	23.382	ng	99
101) 1,1,1,2-Tetrachloroethane	14.92	131	546083	22.875	ng	100

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

Data File : I:\MS13\DATA\2023_03\24\03242305.D
Acq On : 24 Mar 2023 4:23
Sample : LCSD R13032423 25ng
Misc : S35-01202301/S35-02242304 (3/26)

Vial: 1
Operator: TZ
Inst : MS13

Quant Time: Mar 24 07:43:43 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:TO15.M



ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: Duplicate Lab Control Sample

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P230324-DLCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 3/24/23

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
75-71-8	Dichlorodifluoromethane (CFC 12)	42.4	41.9	44.2	99	104	71-112	5	25	
74-87-3	Chloromethane	42.0	37.3	40.0	89	95	53-126	7	25	
75-01-4	Vinyl Chloride	42.0	42.1	44.7	100	106	63-123	6	25	
74-83-9	Bromomethane	42.0	39.4	41.4	94	99	71-112	5	25	
75-00-3	Chloroethane	42.4	38.6	39.7	91	94	66-117	3	25	
67-64-1	Acetone	212	179	186	84	88	60-117	5	25	
75-69-4	Trichlorofluoromethane	42.0	41.3	42.7	98	102	71-114	4	25	
75-35-4	1,1-Dichloroethene	40.8	38.2	39.8	94	98	74-114	4	25	
75-09-2	Methylene Chloride	40.8	40.1	41.5	98	102	75-112	4	25	
76-13-1	Trichlorotrifluoroethane	42.0	37.5	38.5	89	92	73-114	3	25	
75-15-0	Carbon Disulfide	86.0	79.4	81.9	92	95	70-113	3	25	
156-60-5	trans-1,2-Dichloroethene	43.2	38.8	40.5	90	94	76-119	4	25	
75-34-3	1,1-Dichloroethane	43.2	39.0	40.4	90	94	70-114	4	25	
1634-04-4	Methyl tert-Butyl Ether	43.2	44.1	45.0	102	104	72-118	2	25	
78-93-3	2-Butanone (MEK)	82.8	84.9	88.6	103	107	74-121	4	25	
156-59-2	cis-1,2-Dichloroethene	42.8	37.1	38.3	87	89	73-117	2	25	
67-66-3	Chloroform	43.2	41.9	43.6	97	101	71-114	4	25	
107-06-2	1,2-Dichloroethane	40.8	42.9	44.6	105	109	71-119	4	25	
71-55-6	1,1,1-Trichloroethane	42.0	40.2	41.5	96	99	73-119	3	25	
71-43-2	Benzene	40.8	39.8	41.1	98	101	72-113	3	25	
56-23-5	Carbon Tetrachloride	42.0	42.3	43.8	101	104	67-123	3	25	
110-82-7	Cyclohexane	85.2	78.9	81.7	93	96	70-119	3	25	
78-87-5	1,2-Dichloropropane	42.8	38.0	39.2	89	92	70-118	3	25	
75-27-4	Bromodichloromethane	43.2	42.4	43.9	98	102	74-119	4	25	
79-01-6	Trichloroethene	42.4	39.1	41.0	92	97	74-115	5	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

Client: WSP USA Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250
 ALS Sample ID: P230324-DLCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/24/23
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
10061-01-5	cis-1,3-Dichloropropene	42.4	45.9	47.5	108	112	81-126	4	25	
108-10-1	4-Methyl-2-pentanone	85.2	91.3	94.0	107	110	73-129	3	25	
10061-02-6	trans-1,3-Dichloropropene	39.2	33.6	35.0	86	89	80-127	3	25	
79-00-5	1,1,2-Trichloroethane	43.2	39.7	41.5	92	96	78-117	4	25	
108-88-3	Toluene	42.8	36.4	37.2	85	87	70-118	2	25	
591-78-6	2-Hexanone	85.2	88.3	90.2	104	106	74-132	2	25	
124-48-1	Dibromochloromethane	42.8	36.6	37.7	86	88	69-137	2	25	
106-93-4	1,2-Dibromoethane	40.8	37.4	38.2	92	94	76-128	2	25	
127-18-4	Tetrachloroethene	42.8	36.4	37.1	85	87	63-130	2	25	
108-90-7	Chlorobenzene	43.2	35.6	36.5	82	84	70-118	2	25	
100-41-4	Ethylbenzene	43.6	37.4	38.0	86	87	71-123	1	25	
179601-23-1	m,p-Xylenes	86.0	72.1	73.7	84	86	67-127	2	25	
75-25-2	Bromoform	43.6	34.6	35.2	79	81	65-149	3	25	
100-42-5	Styrene	42.8	37.1	38.1	87	89	76-132	2	25	
95-47-6	o-Xylene	43.2	37.6	38.4	87	89	69-124	2	25	
79-34-5	1,1,2,2-Tetrachloroethane	43.2	40.4	41.3	94	96	69-128	2	25	
98-82-8	Cumene	42.4	37.8	38.6	89	91	69-125	2	25	
541-73-1	1,3-Dichlorobenzene	42.8	35.4	36.0	83	84	67-136	1	25	
106-46-7	1,4-Dichlorobenzene	42.8	31.6	32.5	74	76	63-134	3	25	
95-50-1	1,2-Dichlorobenzene	42.4	36.6	37.1	86	88	64-139	2	25	
96-12-8	1,2-Dibromo-3-chloropropane	83.2	71.6	73.2	86	88	72-145	2	25	
120-82-1	1,2,4-Trichlorobenzene	88.0	61.9	63.2	70	72	62-154	3	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Data File : I:\MS16\DATA\2023_03\24\03242306.D

Vial: 2

Acq On : 24 Mar 2023 8:35

Operator: WA

Sample : LCS R23032423_5ng

Inst : GCMS-16

Misc : S35-01312301/S35-02282302 (3/26)

3/24/23

Quant Time: Mar 24 09:01:13 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.29	130	226753	12.500	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	13.42	114	1035722	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	17.72	54	222619	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	406322	13.474	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	107.76%
57) Toluene-d8 (SS2)	15.87	98	1176969	12.076	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	96.64%
73) Bromofluorobenzene (SS3)	19.10	174	350142	11.519	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.16%

Target Compounds

						Qvalue
2) Propene	4.17	42	118610	3.878	ng	98
3) Dichlorodifluoromethan...	4.33	85	177399	5.234	ng	100
4) Chloromethane	4.62	50	147770	4.662	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	4.89	135	99582	5.262	ng	99
6) Vinyl Chloride	5.04	62	154940	5.267	ng	99
7) 1,3-Butadiene	5.32	54	132027	5.357	ng	94
8) Bromomethane	5.76	94	72780	4.921	ng	100
9) Chloroethane	6.09	64	68321	4.826	ng	98
10) Ethanol	6.48	45	421869	19.333	ng	99
11) Acetonitrile	6.73	41	194954	3.567	ng	99
12) Acrolein	6.92	56	137003	8.865	ng	99
13) Acetone	7.13	58	374104	22.416	ng	89
14) Trichlorofluoromethane	7.38	101	161263	5.158	ng	100
15) 2-Propanol (Isopropanol)	7.63	45	585874	10.081	ng	93
16) Acrylonitrile	7.90	53	265404	8.524	ng	99
17) 1,1-Dichloroethene	8.35	96	85890	4.774	ng	100
18) 2-Methyl-2-Propanol (t...	8.52	59	494360	11.932	ng	99
19) Methylene Chloride	8.57	84	92415	5.010	ng	91
20) 3-Chloro-1-propene (Al...	8.73	41	133116	3.925	ng	95
21) Trichlorotrifluoroethane	8.99	151	72963	4.684	ng	92
22) Carbon Disulfide	8.83	76	652590	9.925	ng	100
23) trans-1,2-Dichloroethene	9.84	61	134916	4.851	ng	96
24) 1,1-Dichloroethane	10.10	63	164745	4.875	ng	99
25) Methyl tert-Butyl Ether	10.21	73	269890	5.508	ng	96
26) Vinyl Acetate	10.36	86	113142	30.339	ng	# 92
27) 2-Butanone (MEK)	10.60	72	128352	10.609	ng	94
28) cis-1,2-Dichloroethene	11.11	61	128792	4.635	ng	96
29) Diisopropyl Ether	11.42	87	176594	10.255	ng	# 37
30) Ethyl Acetate	11.42	61	71044	8.978	ng	95
31) n-Hexane	11.40	57	182023	4.596	ng	99
32) Chloroform	11.46	83	158448	5.235	ng	100
34) Tetrahydrofuran (THF)	11.87	72	114112	9.196	ng	94
35) Ethyl tert-Butyl Ether	12.01	87	191252	10.610	ng	93
36) 1,2-Dichloroethane	12.26	62	131856	5.366	ng	99
38) 1,1,1-Trichloroethane	12.54	97	140771	5.024	ng	99
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.02	78	363247	4.980	ng	99
42) Carbon Tetrachloride	13.18	117	125261	5.283	ng	100
43) Cyclohexane	13.31	84	303855	9.864	ng	91
44) tert-Amyl Methyl Ether	13.66	73	415655	11.356	ng	99
45) 1,2-Dichloropropane	13.87	63	96989	4.744	ng	100
46) Bromodichloromethane	14.06	83	127377	5.301	ng	100
47) Trichloroethene	14.12	130	96908	4.886	ng	98
48) 1,4-Dioxane	14.09	88	77421	5.638	ng	92
49) 2,2,4-Trimethylpentane...	14.18	57	427246	4.342	ng	91
50) Methyl Methacrylate	14.33	100	79268	9.639	ng	95

Data File : I:\MS16\DATA\2023_03\24\03242306.D
 Acq On : 24 Mar 2023 8:35
 Sample : LCS R23032423_5ng
 Misc : S35-01312301/S35-02282302 (3/26)

Vial: 2
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 24 09:01:13 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:TO15B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.45	71	107099	5.005	ng	93
52) cis-1,3-Dichloropropene	14.98	75	154831	5.742	ng	99
53) 4-Methyl-2-pentanone	15.01	58	192844	11.409	ng	92
54) trans-1,3-Dichloropropene	15.50	75	108800	4.203	ng	100
55) 1,1,2-Trichloroethane	15.67	97	87863	4.965	ng	94
58) Toluene	15.96	91	388913	4.556	ng	98
59) 2-Hexanone	16.21	43	497864	11.042	ng	96
60) Dibromochloromethane	16.37	129	97821	4.577	ng	100
61) 1,2-Dibromoethane	16.62	107	95422	4.671	ng	99
62) n-Butyl Acetate	16.84	43	550481	10.694	ng	96
63) n-Octane	16.97	57	90268	4.131	ng	93
64) Tetrachloroethene	17.11	166	98926	4.552	ng	99
65) Chlorobenzene	17.76	112	250981	4.449	ng	100
66) Ethylbenzene	18.11	91	451197	4.681	ng	98
67) m- & p-Xylenes	18.27	91	687265	9.015	ng	100
68) Bromoform	18.33	173	78706	4.320	ng	100
69) Styrene	18.60	104	248614	4.635	ng	98
70) o-Xylene	18.70	91	352296	4.699	ng	99
71) n-Nonane	18.90	43	235175	4.395	ng	94
72) 1,1,2,2-Tetrachloroethane	18.68	83	166153	5.050	ng	100
74) Cumene	19.22	105	447125	4.729	ng	97
75) alpha-Pinene	19.57	93	114654	4.724	ng	99
76) n-Propylbenzene	19.67	91	544691	4.733	ng	97
77) 3-Ethyltoluene	20.22	105	375978	No Calib	#	
78) 4-Ethyltoluene	19.80	105	444679	4.957	ng	97
79) 1,3,5-Trimethylbenzene	19.86	105	369667	4.600	ng	95
80) alpha-Methylstyrene	20.46	118	1816	No Calib	#	
81) 2-Ethyltoluene	20.22	105	375978	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.22	105	375978	4.894	ng	97
83) n-Decane	20.22	58	18912	No Calib		
84) Benzyl Chloride	20.34	91	343365	7.351	ng	97
85) 1,3-Dichlorobenzene	20.36	146	188036	4.419	ng	100
86) 1,4-Dichlorobenzene	20.41	146	175128	3.955	ng	99
87) sec-Butylbenzene	20.46	105	507690	4.848	ng	98
88) 4-Isopropyltoluene (p-...	20.59	119	479306	4.250	ng	98
89) 1,2,3-Trimethylbenzene	20.22	105	375978	No Calib	#	
90) 1,2-Dichlorobenzene	20.72	146	191395	4.569	ng	100
91) d-Limonene	20.72	68	106250	4.844	ng	99
92) 1,2-Dibromo-3-Chloropr...	21.09	157	140680	8.946	ng	# 76
93) n-Undecane	21.34	58	410	No Calib	#	
94) 1,2,4-Trichlorobenzene	22.22	180	222202	7.741	ng	100
95) Naphthalene	22.33	128	301417	3.198	ng	99
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	22.65	225	86151	4.390	ng	99
98) Cyclohexanone	18.27	55	597	No Calib	#	
99) tert-Butylbenzene	20.22	119	379873	4.798	ng	99
100) n-Butylbenzene	20.96	91	407529	4.950	ng	96
101) 1,1,1,2-Tetrachloroethane	17.74	131	91414	4.619	ng	99

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

Data File : I:\MS16\DATA\2023_03\24\03242306.D
Acq On : 24 Mar 2023 8:35
Sample : LCS R23032423_5ng
Misc : S35-01312301/S35-02282302 (3/26)

Vial: 2
Operator: WA
Inst : GCMS-16

Quant Time: Mar 24 09:01:13 2023

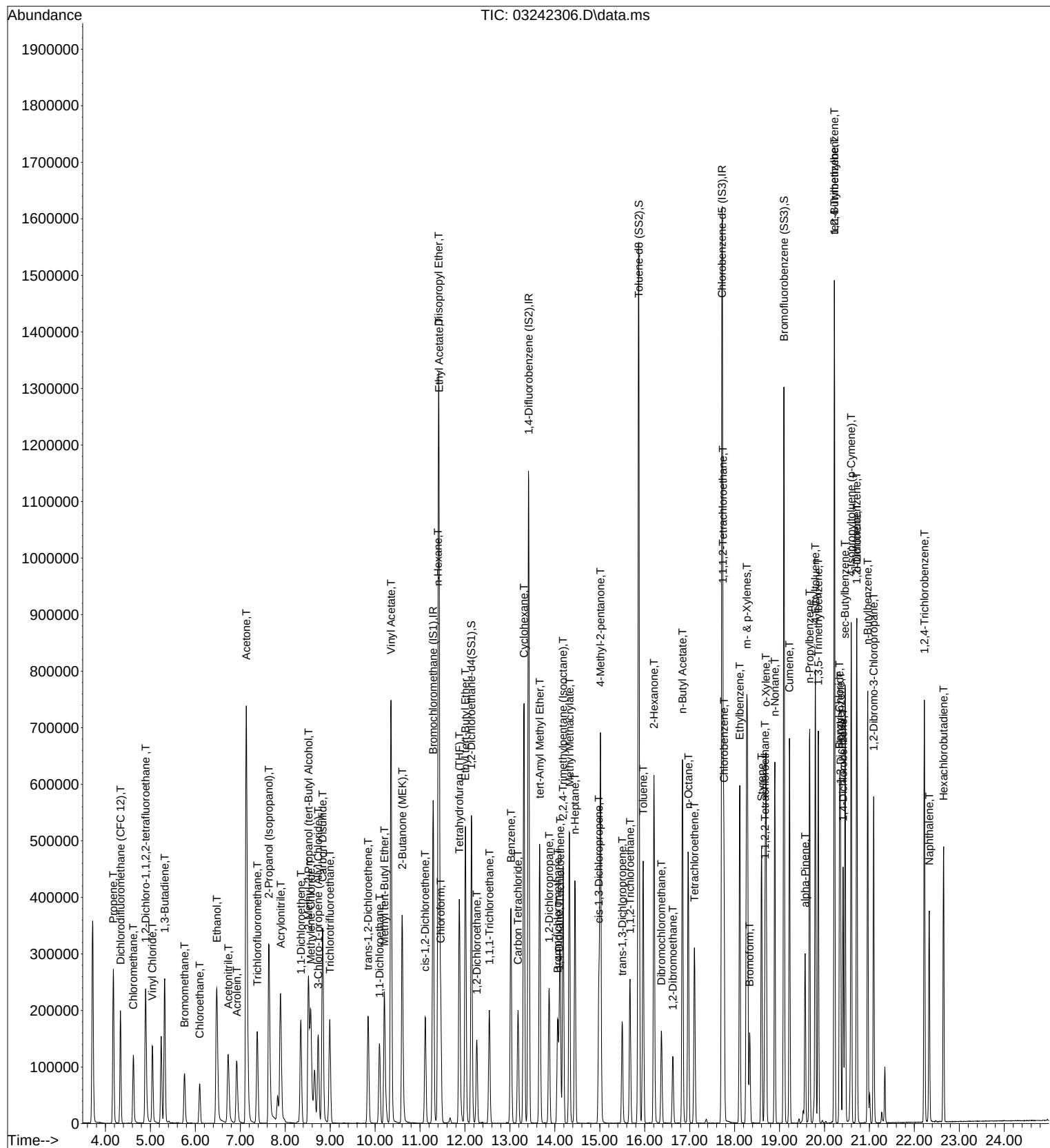
Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M



Data File : I:\MS16\DATA\2023_03\24\03242307.D

Vial: 2

Acq On : 24 Mar 2023 9:09

Operator: WA

Sample : LCSD R23032423_5ng

Inst : GCMS-16

Misc : S35-01312301/S35-02282302 (3/26)

Quant Time: Mar 24 09:32:49 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

3/24/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.30	130	221876	12.500	ng	0.00
37) 1,4-Difluorobenzene (IS2)	13.41	114	1015719	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.72	54	220368	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	400823	13.584	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	108.64%
57) Toluene-d8 (SS2)	15.87	98	1158015	12.003	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	96.00%
73) Bromofluorobenzene (SS3)	19.10	174	348271	11.574	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.56%

Target Compounds

						Qvalue
2) Propene	4.18	42	120296	4.019	ng	96
3) Dichlorodifluoromethan...	4.34	85	183137	5.522	ng	99
4) Chloromethane	4.63	50	155117	5.001	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	4.90	135	102479	5.534	ng	99
6) Vinyl Chloride	5.05	62	160704	5.584	ng	99
7) 1,3-Butadiene	5.32	54	133604	5.541	ng	95
8) Bromomethane	5.76	94	74942	5.179	ng	99
9) Chloroethane	6.10	64	68777	4.965	ng	98
10) Ethanol	6.48	45	429053	20.094	ng	99
11) Acetonitrile	6.73	41	202051	3.778	ng	99
12) Acrolein	6.92	56	139516	9.226	ng	99
13) Acetone	7.13	58	378983	23.208	ng	87
14) Trichlorofluoromethane	7.38	101	163159	5.333	ng	99
15) 2-Propanol (Isopropanol)	7.64	45	598142	10.519	ng	95
16) Acrylonitrile	7.90	53	268859	8.824	ng	99
17) 1,1-Dichloroethene	8.35	96	87629	4.977	ng	100
18) 2-Methyl-2-Propanol (t...	8.52	59	491359	12.121	ng	98
19) Methylene Chloride	8.57	84	93557	5.184	ng	92
20) 3-Chloro-1-propene (Al...	8.73	41	136774	4.121	ng	95
21) Trichlorotrifluoroethane	9.00	151	73268	4.807	ng	92
22) Carbon Disulfide	8.83	76	658882	10.241	ng	100
23) trans-1,2-Dichloroethene	9.85	61	137764	5.063	ng	96
24) 1,1-Dichloroethane	10.10	63	166885	5.047	ng	100
25) Methyl tert-Butyl Ether	10.21	73	269835	5.627	ng	95
26) Vinyl Acetate	10.36	86	116627	31.960	ng	# 89
27) 2-Butanone (MEK)	10.60	72	131178	11.081	ng	93
28) cis-1,2-Dichloroethene	11.12	61	130032	4.782	ng	96
29) Diisopropyl Ether	11.42	87	181599	10.777	ng	# 35
30) Ethyl Acetate	11.42	61	72074	9.308	ng	96
31) n-Hexane	11.41	57	182585	4.712	ng	98
32) Chloroform	11.46	83	161243	5.445	ng	100
34) Tetrahydrofuran (THF)	11.87	72	117460	9.674	ng	93
35) Ethyl tert-Butyl Ether	12.01	87	186086	10.550	ng	92
36) 1,2-Dichloroethane	12.26	62	134156	5.580	ng	100
38) 1,1,1-Trichloroethane	12.54	97	142616	5.190	ng	100
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.02	78	367824	5.143	ng	99
42) Carbon Tetrachloride	13.18	117	127239	5.472	ng	100
43) Cyclohexane	13.31	84	308586	10.215	ng	91
44) tert-Amyl Methyl Ether	13.66	73	395557	11.020	ng	99
45) 1,2-Dichloropropane	13.87	63	98353	4.905	ng	100
46) Bromodichloromethane	14.06	83	129360	5.490	ng	100
47) Trichloroethene	14.12	130	99619	5.122	ng	98
48) 1,4-Dioxane	14.09	88	77695	5.770	ng	92
49) 2,2,4-Trimethylpentane...	14.18	57	435541	4.513	ng	91
50) Methyl Methacrylate	14.32	100	79918	9.909	ng	94

Data File : I:\MS16\DATA\2023_03\24\03242307.D
 Acq On : 24 Mar 2023 9:09
 Sample : LCSD R23032423_5ng
 Misc : S35-01312301/S35-02282302 (3/26)

Vial: 2
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 24 09:32:49 2023
 Quant Method : I:\MS16\METHODS\R16122022.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Wed Dec 21 03:06:38 2022
 Response via : Initial Calibration
 DataAcq Meth:T015B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.45	71	107964	5.145	ng	93
52) cis-1,3-Dichloropropene	14.98	75	156936	5.935	ng	100
53) 4-Methyl-2-pentanone	15.01	58	194756	11.749	ng	92
54) trans-1,3-Dichloropropene	15.50	75	111220	4.381	ng	100
55) 1,1,2-Trichloroethane	15.67	97	90067	5.189	ng	96
58) Toluene	15.96	91	392981	4.651	ng	98
59) 2-Hexanone	16.21	43	503090	11.272	ng	96
60) Dibromochloromethane	16.37	129	99623	4.708	ng	99
61) 1,2-Dibromoethane	16.62	107	96586	4.777	ng	99
62) n-Butyl Acetate	16.84	43	558336	10.958	ng	96
63) n-Octane	16.96	57	91862	4.247	ng	93
64) Tetrachloroethene	17.11	166	99692	4.634	ng	99
65) Chlorobenzene	17.76	112	254782	4.562	ng	100
66) Ethylbenzene	18.11	91	453057	4.748	ng	99
67) m- & p-Xylenes	18.28	91	695544	9.217	ng	100
68) Bromoform	18.33	173	79265	4.395	ng	100
69) Styrene	18.60	104	252704	4.759	ng	98
70) o-Xylene	18.70	91	356739	4.806	ng	99
71) n-Nonane	18.90	43	235673	4.449	ng	95
72) 1,1,2,2-Tetrachloroethane	18.68	83	167952	5.157	ng	100
74) Cumene	19.22	105	451890	4.829	ng	98
75) alpha-Pinene	19.57	93	103193	4.295	ng	99
76) n-Propylbenzene	19.67	91	549987	4.828	ng	97
77) 3-Ethyltoluene	20.22	105	382893	No Calib	#	
78) 4-Ethyltoluene	19.80	105	451565	5.086	ng	97
79) 1,3,5-Trimethylbenzene	19.86	105	371912	4.676	ng	97
80) alpha-Methylstyrene	20.46	118	1695	No Calib	#	
81) 2-Ethyltoluene	20.22	105	382893	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.22	105	382893	5.034	ng	96
83) n-Decane	20.22	58	19181	No Calib		
84) Benzyl Chloride	20.34	91	348177	7.530	ng	96
85) 1,3-Dichlorobenzene	20.36	146	189580	4.501	ng	99
86) 1,4-Dichlorobenzene	20.41	146	178317	4.068	ng	99
87) sec-Butylbenzene	20.46	105	511547	4.935	ng	98
88) 4-Isopropyltoluene (p-...	20.59	119	492764	4.414	ng	97
89) 1,2,3-Trimethylbenzene	20.22	105	382893	No Calib	#	
90) 1,2-Dichlorobenzene	20.72	146	192215	4.636	ng	99
91) d-Limonene	20.72	68	99920	4.602	ng	98
92) 1,2-Dibromo-3-Chloropr...	21.09	157	142388	9.147	ng	# 76
93) n-Undecane	21.35	58	519	No Calib	#	
94) 1,2,4-Trichlorobenzene	22.22	180	224436	7.899	ng	99
95) Naphthalene	22.33	128	309233	3.315	ng	99
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	22.65	225	87876	4.524	ng	99
98) Cyclohexanone	18.13	55	1177	No Calib	#	
99) tert-Butylbenzene	20.22	119	382648	4.882	ng	99
100) n-Butylbenzene	20.96	91	405434	4.975	ng	97
101) 1,1,1,2-Tetrachloroethane	17.74	131	93380	4.767	ng	98

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

Data File : I:\MS16\DATA\2023_03\24\03242307.D
Acq On : 24 Mar 2023 9:09
Sample : LCSD R23032423_5ng
Misc : S35-01312301/S35-02282302 (3/26)

Vial: 2
Operator: WA
Inst : GCMS-16

Quant Time: Mar 24 09:32:49 2023

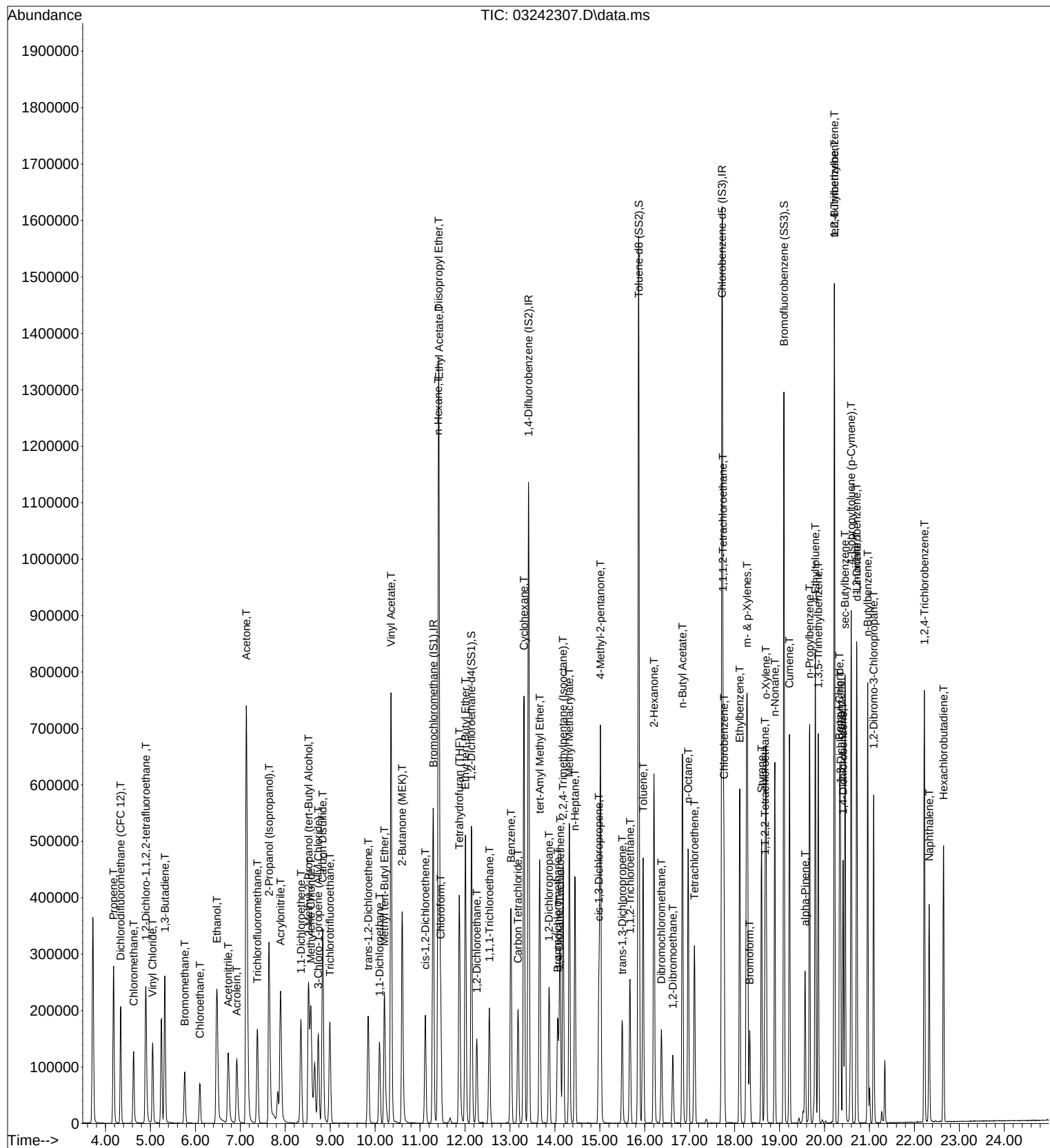
Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M



ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

Client: WSP USA Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250
 ALS Sample ID: P230327-DLCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/27/23
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
75-71-8	Dichlorodifluoromethane (CFC 12)	212	210	208	99	98	71-112	1	25	
74-87-3	Chloromethane	210	223	222	106	106	53-126	0	25	
75-01-4	Vinyl Chloride	210	197	196	94	93	63-123	1	25	
74-83-9	Bromomethane	210	208	207	99	99	71-112	0	25	
75-00-3	Chloroethane	212	216	214	102	101	66-117	1	25	
67-64-1	Acetone	1,060	1050	1040	99	98	60-117	1	25	
75-69-4	Trichlorofluoromethane	210	208	206	99	98	71-114	1	25	
75-35-4	1,1-Dichloroethene	204	215	213	105	104	74-114	1	25	
75-09-2	Methylene Chloride	204	211	210	103	103	75-112	0	25	
76-13-1	Trichlorotrifluoroethane	210	210	207	100	99	73-114	1	25	
75-15-0	Carbon Disulfide	430	403	398	94	93	70-113	1	25	
156-60-5	trans-1,2-Dichloroethene	216	228	225	106	104	76-119	2	25	
75-34-3	1,1-Dichloroethane	216	218	215	101	100	70-114	1	25	
1634-04-4	Methyl tert-Butyl Ether	216	220	217	102	100	72-118	2	25	
78-93-3	2-Butanone (MEK)	414	442	439	107	106	74-121	0.9	25	
156-59-2	cis-1,2-Dichloroethene	214	216	215	101	100	73-117	1	25	
67-66-3	Chloroform	216	214	210	99	97	71-114	2	25	
107-06-2	1,2-Dichloroethane	204	229	226	112	111	71-119	0.9	25	
71-55-6	1,1,1-Trichloroethane	210	214	209	102	100	73-119	2	25	
71-43-2	Benzene	204	216	213	106	104	72-113	2	25	
56-23-5	Carbon Tetrachloride	210	225	221	107	105	67-123	2	25	
110-82-7	Cyclohexane	426	424	418	100	98	70-119	2	25	
78-87-5	1,2-Dichloropropane	214	216	214	101	100	70-118	1	25	
75-27-4	Bromodichloromethane	216	219	219	101	101	74-119	0	25	
79-01-6	Trichloroethene	212	210	207	99	98	74-115	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

Client:	WSP USA Inc.	
Client Sample ID:	Duplicate Lab Control Sample	ALS Project ID: P2301250
Client Project ID:	Former Emerson Power Transmission Facility / 31405608.001	ALS Sample ID: P230327-DLCS
Test Code:	EPA TO-15	Date Collected: NA
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13	Date Received: NA
Analyst:	Wida Ang	Date Analyzed: 3/27/23
Sample Type:	6.0 L Summa Canister	Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:		

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
10061-01-5	cis-1,3-Dichloropropene	212	248	243	117	115	81-126	2	25	
108-10-1	4-Methyl-2-pentanone	426	473	465	111	109	73-129	2	25	
10061-02-6	trans-1,3-Dichloropropene	196	211	206	108	105	80-127	3	25	
79-00-5	1,1,2-Trichloroethane	216	212	210	98	97	78-117	1	25	
108-88-3	Toluene	214	196	194	92	91	70-118	1	25	
591-78-6	2-Hexanone	426	459	453	108	106	74-132	2	25	
124-48-1	Dibromochloromethane	214	210	208	98	97	69-137	1	25	
106-93-4	1,2-Dibromoethane	204	202	201	99	99	76-128	0	25	
127-18-4	Tetrachloroethene	214	197	195	92	91	63-130	1	25	
108-90-7	Chlorobenzene	216	200	198	93	92	70-118	1	25	
100-41-4	Ethylbenzene	218	192	189	88	87	71-123	1	25	
179601-23-1	m,p-Xylenes	430	384	379	89	88	67-127	1	25	
75-25-2	Bromoform	218	216	214	99	98	65-149	1	25	
100-42-5	Styrene	214	211	209	99	98	76-132	1	25	
95-47-6	o-Xylene	216	200	198	93	92	69-124	1	25	
79-34-5	1,1,2,2-Tetrachloroethane	216	216	214	100	99	69-128	1	25	
98-82-8	Cumene	212	201	198	95	93	69-125	2	25	
541-73-1	1,3-Dichlorobenzene	214	199	198	93	93	67-136	0	25	
106-46-7	1,4-Dichlorobenzene	214	196	194	92	91	63-134	1	25	
95-50-1	1,2-Dichlorobenzene	212	199	198	94	93	64-139	1	25	
96-12-8	1,2-Dibromo-3-chloropropane	416	413	410	99	99	72-145	0	25	
120-82-1	1,2,4-Trichlorobenzene	440	409	411	93	93	62-154	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Data File : I:\MS13\DATA\2023_03\27\03272305.D

Vial: 1

Acq On : 27 Mar 2023 6:04

Operator: WA

Sample : LCS R13032723 25ng

Inst : MS13

Misc : S35-01202301/S35-03162301 (4/15)

T2 3/27/23

Quant Time: Mar 27 09:01:02 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.35	130	236345	12.500	ng	0.00
37) 1,4-Difluorobenzene (IS2)	9.39	114	1047621	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	14.88	54	192464	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.11	65	406144	12.949	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	103.60%
57) Toluene-d8 (SS2)	12.48	98	1193360	12.057	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	96.48%
73) Bromofluorobenzene (SS3)	16.86	174	421177	11.618	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.96%

Target Compounds

						Qvalue
2) Propene	3.38	42	606306	25.650	ng	99
3) Dichlorodifluoromethan...	3.46	85	1135722	26.236	ng	100
4) Chloromethane	3.59	50	869841	27.864	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	3.71	135	520940	23.835	ng	100
6) Vinyl Chloride	3.79	62	713659	24.686	ng	100
7) 1,3-Butadiene	3.90	54	556875	25.427	ng	98
8) Bromomethane	4.12	94	504585	26.047	ng	98
9) Chloroethane	4.26	64	369201	27.001	ng	99
10) Ethanol	4.44	45	2225640	132.594	ng	100
11) Acetonitrile	4.57	41	1044973	23.961	ng	100
12) Acrolein	4.64	56	794882	57.262	ng	100
13) Acetone	4.75	58	1875937	130.949	ng	98
14) Trichlorofluoromethane	4.86	101	1012684	25.985	ng	100
15) 2-Propanol (Isopropanol)	4.98	45	3213302	55.561	ng	100
16) Acrylonitrile	5.12	53	1496065	54.744	ng	99
17) 1,1-Dichloroethene	5.36	96	536751	26.820	ng	96
18) 2-Methyl-2-Propanol (t...	5.45	59	3163694	55.939	ng	99
19) Methylene Chloride	5.48	84	554684	26.412	ng	94
20) 3-Chloro-1-propene (Al...	5.56	41	846022	25.229	ng	97
21) Trichlorotrifluoroethane	5.68	151	537432	26.226	ng	98
22) Carbon Disulfide	5.71	76	4185094	50.326	ng	100
23) trans-1,2-Dichloroethene	6.25	61	874605	28.534	ng	97
24) 1,1-Dichloroethane	6.43	63	1017041	27.211	ng	100
25) Methyl tert-Butyl Ether	6.47	73	1800005	27.477	ng	99
26) Vinyl Acetate	6.56	86	623400	160.927	ng	# 86
27) 2-Butanone (MEK)	6.77	72	702050	55.204	ng	# 91
28) cis-1,2-Dichloroethene	7.19	61	815646	27.018	ng	98
29) Diisopropyl Ether	7.38	87	827270	52.373	ng	# 42
30) Ethyl Acetate	7.39	61	398119	47.607	ng	99
31) n-Hexane	7.39	57	875058	27.186	ng	98
32) Chloroform	7.47	83	1016892	26.706	ng	99
34) Tetrahydrofuran (THF)	7.85	72	649011	49.690	ng	95
35) Ethyl tert-Butyl Ether	7.91	87	1313036	54.422	ng	96
36) 1,2-Dichloroethane	8.21	62	826100	28.643	ng	99
38) 1,1,1-Trichloroethane	8.49	97	925848	26.700	ng	99
39) Isopropyl Acetate	9.39	61	29626	No Calib		
40) 1-Butanol	8.91	56	2543	No Calib	#	
41) Benzene	8.99	78	2202120	27.020	ng	100
42) Carbon Tetrachloride	9.15	117	860233	28.122	ng	100
43) Cyclohexane	9.30	84	1584517	53.035	ng	96
44) tert-Amyl Methyl Ether	9.68	73	3287707	55.625	ng	99
45) 1,2-Dichloropropane	9.94	63	555211	27.002	ng	99
46) Bromodichloromethane	10.16	83	823798	27.336	ng	99
47) Trichloroethene	10.23	130	628072	26.306	ng	100
48) 1,4-Dioxane	10.20	88	465655	28.343	ng	97
49) 2,2,4-Trimethylpentane...	10.30	57	2208680	26.651	ng	100
50) Methyl Methacrylate	10.48	100	457210	54.556	ng	94

Data File : I:\MS13\DATA\2023_03\27\03272305.D
 Acq On : 27 Mar 2023 6:04
 Sample : LCS R13032723 25ng
 Misc : S35-01202301/S35-03162301 (4/15)

Vial: 1
 Operator: WA
 Inst : MS13

Quant Time: Mar 27 09:01:02 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

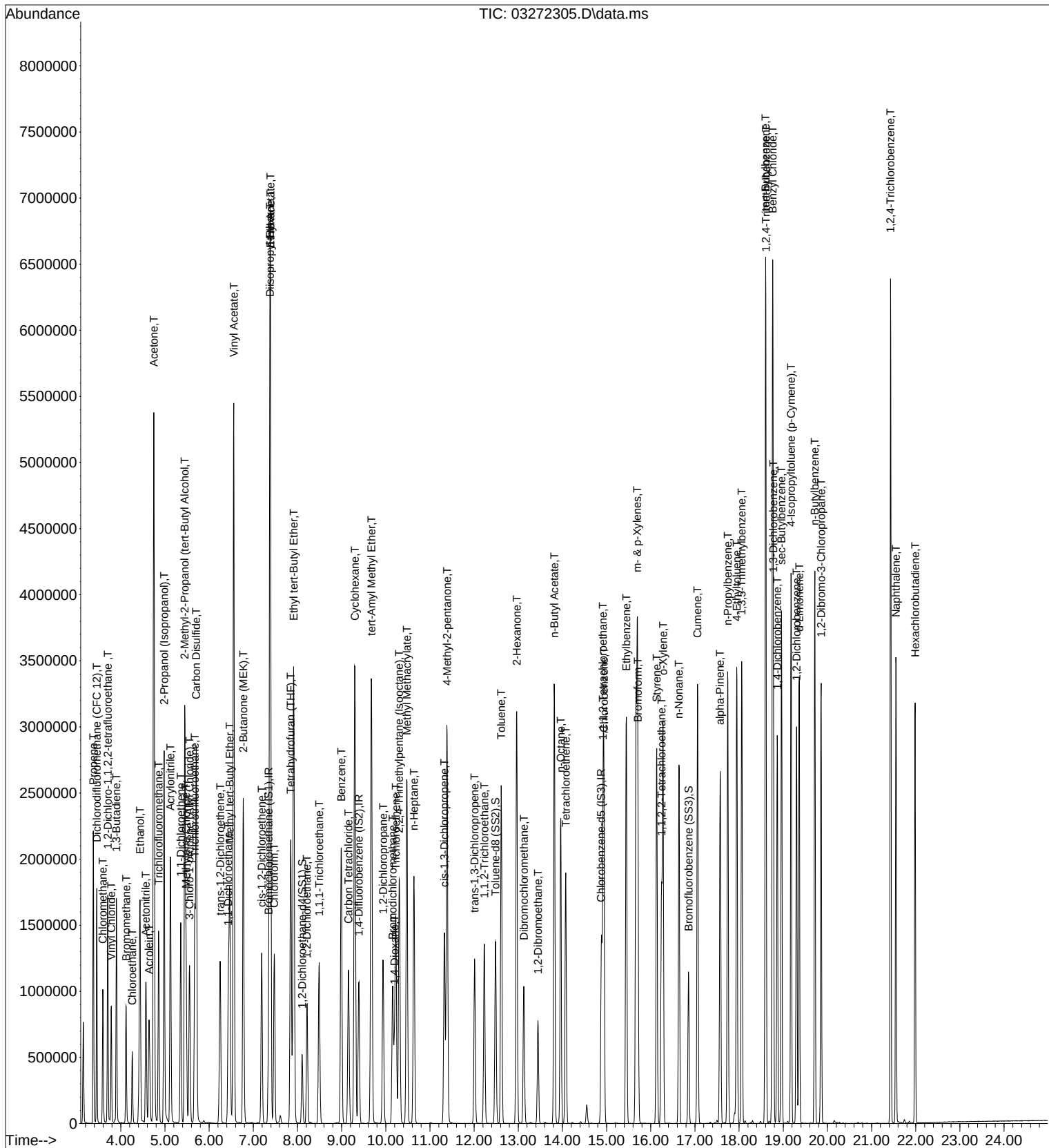
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.64	71	540493	27.407	ng	99
52) cis-1,3-Dichloropropene	11.33	75	1036091	31.009	ng	100
53) 4-Methyl-2-pentanone	11.39	58	1038615	59.113	ng	96
54) trans-1,3-Dichloropropene	12.01	75	852146	26.330	ng	99
55) 1,1,2-Trichloroethane	12.23	97	558358	26.470	ng	98
58) Toluene	12.61	91	2311977	24.536	ng	100
59) 2-Hexanone	12.97	43	2626454	57.384	ng	98
60) Dibromochloromethane	13.13	129	724261	26.191	ng	100
61) 1,2-Dibromoethane	13.44	107	661836	25.230	ng	100
62) n-Butyl Acetate	13.81	43	2953112	56.759	ng	98
63) n-Octane	13.96	57	477973	25.796	ng	96
64) Tetrachloroethene	14.08	166	706203	24.636	ng	99
65) Chlorobenzene	14.94	112	1557532	25.060	ng	100
66) Ethylbenzene	15.45	91	2703199	24.048	ng	99
67) m- & p-Xylenes	15.69	91	4347906	48.058	ng	100
68) Bromoform	15.71	173	674678	27.005	ng	99
69) Styrene	16.14	104	1643939	26.427	ng	99
70) o-Xylene	16.28	91	2165057	25.027	ng	100
71) n-Nonane	16.64	43	1153874	27.564	ng	96
72) 1,1,2,2-Tetrachloroethane	16.24	83	1009409	27.010	ng	100
74) Cumene	17.06	105	2646329	25.151	ng	99
75) alpha-Pinene	17.57	93	1265906	26.077	ng	99
76) n-Propylbenzene	17.74	91	3223205	25.554	ng	99
77) 3-Ethyltoluene	17.35	105	774	No Calib	#	
78) 4-Ethyltoluene	17.95	105	2647661	26.232	ng	100
79) 1,3,5-Trimethylbenzene	18.06	105	2269703	25.430	ng	99
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.35	105	774	No Calib	#	
82) 1,2,4-Trimethylbenzene	18.61	105	2260009	25.679	ng	99
83) n-Decane	17.06	58	21047	No Calib		
84) Benzyl Chloride	18.76	91	4128509	57.977	ng	99
85) 1,3-Dichlorobenzene	18.78	146	1327520	24.937	ng	100
86) 1,4-Dichlorobenzene	18.86	146	1352884	24.538	ng	99
87) sec-Butylbenzene	18.96	105	2921270	25.163	ng	99
88) 4-Isopropyltoluene (p-...	19.18	119	2574492	25.231	ng	99
89) 1,2,3-Trimethylbenzene	17.35	105	774	No Calib	#	
90) 1,2-Dichlorobenzene	19.30	146	1311839	24.899	ng	100
91) d-Limonene	19.36	68	806693	27.106	ng	98
92) 1,2-Dibromo-3-Chloropr...	19.86	157	1029015	51.579	ng	95
93) n-Undecane	18.23	58	1081	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	2024132	51.081	ng	100
95) Naphthalene	21.55	128	2660624	27.889	ng	99
96) n-Dodecane	19.18	58	83298	No Calib		
97) Hexachlorobutadiene	21.99	225	637117	20.736	ng	99
98) Cyclohexanone	15.67	55	1487	No Calib	#	
99) tert-Butylbenzene	18.60	119	2025680	24.517	ng	99
100) n-Butylbenzene	19.72	91	2396219	26.549	ng	99
101) 1,1,1,2-Tetrachloroethane	14.92	131	595265	25.408	ng	100

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

Data File : I:\MS13\DATA\2023_03\27\03272305.D
Acq On : 27 Mar 2023 6:04
Sample : LCS R13032723 25ng
Misc : S35-01202301/S35-03162301 (4/15)

Vial: 1
Operator: WA
Inst : MS13

Quant Time: Mar 27 09:01:02 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:TO15.M



Data File : I:\MS13\DATA\2023_03\27\03272306.D
 Acq On : 27 Mar 2023 6:39
 Sample : LCSD R13032723 25ng
 Misc : S35-01202301/S35-03162301 (4/15)

Vial: 1
 Operator: WA
 Inst : MS13

T2 3/27/23

Quant Time: Mar 27 09:02:13 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.35	130	240878	12.500	ng	0.00
37) 1,4-Difluorobenzene (IS2)	9.39	114	1075301	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	14.88	54	196733	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.11	65	413827	12.946	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	103.60%
57) Toluene-d8 (SS2)	12.49	98	1215432	12.013	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	96.08%
73) Bromofluorobenzene (SS3)	16.85	174	433217	11.691	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	93.52%

Target Compounds

						Qvalue
2) Propene	3.38	42	612504	25.424	ng	99
3) Dichlorodifluoromethan...	3.45	85	1147386	26.006	ng	100
4) Chloromethane	3.59	50	881581	27.708	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	3.70	135	531923	23.879	ng	100
6) Vinyl Chloride	3.78	62	722307	24.515	ng	100
7) 1,3-Butadiene	3.90	54	567742	25.435	ng	99
8) Bromomethane	4.12	94	510323	25.847	ng	98
9) Chloroethane	4.26	64	372721	26.745	ng	100
10) Ethanol	4.44	45	2259012	132.049	ng	100
11) Acetonitrile	4.57	41	1069322	24.058	ng	100
12) Acrolein	4.64	56	806417	57.000	ng	100
13) Acetone	4.75	58	1897796	129.982	ng	98
14) Trichlorofluoromethane	4.86	101	1023188	25.760	ng	99
15) 2-Propanol (Isopropanol)	4.98	45	3257620	55.267	ng	99
16) Acrylonitrile	5.12	53	1513096	54.325	ng	99
17) 1,1-Dichloroethene	5.36	96	543068	26.625	ng	96
18) 2-Methyl-2-Propanol (t...	5.45	59	3199286	55.504	ng	100
19) Methylene Chloride	5.48	84	562174	26.265	ng	95
20) 3-Chloro-1-propene (Al...	5.56	41	851067	24.901	ng	97
21) Trichlorotrifluoroethane	5.68	151	539365	25.825	ng	98
22) Carbon Disulfide	5.71	76	4214879	49.730	ng	100
23) trans-1,2-Dichloroethene	6.25	61	880333	28.180	ng	98
24) 1,1-Dichloroethane	6.43	63	1023086	26.858	ng	99
25) Methyl tert-Butyl Ether	6.47	73	1812024	27.140	ng	99
26) Vinyl Acetate	6.56	86	621414	157.396	ng	# 84
27) 2-Butanone (MEK)	6.77	72	711327	54.881	ng	# 91
28) cis-1,2-Dichloroethene	7.19	61	825523	26.830	ng	97
29) Diisopropyl Ether	7.38	87	839792	52.165	ng	# 41
30) Ethyl Acetate	7.38	61	401854	47.150	ng	99
31) n-Hexane	7.39	57	882702	26.908	ng	98
32) Chloroform	7.47	83	1018091	26.234	ng	100
34) Tetrahydrofuran (THF)	7.84	72	655229	49.222	ng	94
35) Ethyl tert-Butyl Ether	7.91	87	1327862	54.001	ng	96
36) 1,2-Dichloroethane	8.21	62	830994	28.271	ng	99
38) 1,1,1-Trichloroethane	8.49	97	928835	26.097	ng	99
39) Isopropyl Acetate	9.39	61	30031	No Calib		
40) 1-Butanol	8.90	56	2328	No Calib	#	
41) Benzene	8.99	78	2228692	26.643	ng	100
42) Carbon Tetrachloride	9.15	117	867585	27.632	ng	100
43) Cyclohexane	9.30	84	1603283	52.281	ng	96
44) tert-Amyl Methyl Ether	9.67	73	3354614	55.296	ng	99
45) 1,2-Dichloropropane	9.94	63	563505	26.700	ng	100
46) Bromodichloromethane	10.16	83	846590	27.370	ng	99
47) Trichloroethene	10.23	130	634826	25.904	ng	99
48) 1,4-Dioxane	10.19	88	471710	27.973	ng	98
49) 2,2,4-Trimethylpentane...	10.30	57	2272791	26.719	ng	100
50) Methyl Methacrylate	10.48	100	465956	54.168	ng	94

Data File : I:\MS13\DATA\2023_03\27\03272306.D
 Acq On : 27 Mar 2023 6:39
 Sample : LCSD R13032723 25ng
 Misc : S35-01202301/S35-03162301 (4/15)

Vial: 1
 Operator: WA
 Inst : MS13

Quant Time: Mar 27 09:02:13 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.64	71	548849	27.114	ng	99
52) cis-1,3-Dichloropropene	11.33	75	1042835	30.407	ng	100
53) 4-Methyl-2-pentanone	11.38	58	1047214	58.068	ng	96
54) trans-1,3-Dichloropropene	12.01	75	855350	25.748	ng	100
55) 1,1,2-Trichloroethane	12.23	97	567020	26.188	ng	99
58) Toluene	12.61	91	2340057	24.295	ng	100
59) 2-Hexanone	12.96	43	2650060	56.643	ng	98
60) Dibromochloromethane	13.13	129	736149	26.043	ng	100
61) 1,2-Dibromoethane	13.44	107	672733	25.089	ng	99
62) n-Butyl Acetate	13.81	43	2984876	56.124	ng	98
63) n-Octane	13.96	57	482295	25.465	ng	96
64) Tetrachloroethene	14.08	166	713733	24.359	ng	99
65) Chlorobenzene	14.94	112	1573946	24.775	ng	100
66) Ethylbenzene	15.45	91	2715756	23.635	ng	100
67) m- & p-Xylenes	15.69	91	4386043	47.428	ng	100
68) Bromoform	15.72	173	684237	26.793	ng	100
69) Styrene	16.14	104	1664990	26.184	ng	100
70) o-Xylene	16.28	91	2183555	24.693	ng	99
71) n-Nonane	16.64	43	1159566	27.099	ng	97
72) 1,1,2,2-Tetrachloroethane	16.24	83	1024032	26.807	ng	99
74) Cumene	17.06	105	2663602	24.766	ng	100
75) alpha-Pinene	17.58	93	1313105	26.462	ng	99
76) n-Propylbenzene	17.74	91	3249724	25.205	ng	99
77) 3-Ethyltoluene	17.34	105	1203	No Calib	#	
78) 4-Ethyltoluene	17.95	105	2676365	25.941	ng	99
79) 1,3,5-Trimethylbenzene	18.06	105	2302154	25.234	ng	100
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.34	105	1203	No Calib	#	
82) 1,2,4-Trimethylbenzene	18.61	105	2279908	25.343	ng	100
83) n-Decane	17.06	58	21449	No Calib		
84) Benzyl Chloride	18.76	91	4192786	57.602	ng	99
85) 1,3-Dichlorobenzene	18.78	146	1344443	24.707	ng	100
86) 1,4-Dichlorobenzene	18.86	146	1369867	24.307	ng	99
87) sec-Butylbenzene	18.96	105	2977275	25.089	ng	99
88) 4-Isopropyltoluene (p-...	19.18	119	2607826	25.003	ng	99
89) 1,2,3-Trimethylbenzene	17.34	105	1203	No Calib	#	
90) 1,2-Dichlorobenzene	19.30	146	1331782	24.729	ng	100
91) d-Limonene	19.36	68	827740	27.210	ng	98
92) 1,2-Dibromo-3-Chloropr...	19.86	157	1044132	51.202	ng	96
93) n-Undecane	18.29	58	239	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	2082689	51.418	ng	100
95) Naphthalene	21.55	128	2758117	28.284	ng	100
96) n-Dodecane	19.17	58	73967	No Calib		
97) Hexachlorobutadiene	21.99	225	662810	21.105	ng	99
98) Cyclohexanone	15.66	55	2660	No Calib		
99) tert-Butylbenzene	18.60	119	2099994	24.865	ng	99
100) n-Butylbenzene	19.72	91	2420714	26.239	ng	99
101) 1,1,1,2-Tetrachloroethane	14.92	131	605971	25.304	ng	100

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

Data File : I:\MS13\DATA\2023_03\27\03272306.D
Acq On : 27 Mar 2023 6:39
Sample : LCSD R13032723 25ng
Misc : S35-01202301/S35-03162301 (4/15)

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

Client: WSP USA Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250
 ALS Sample ID: P230327-DLCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/27/23
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
75-71-8	Dichlorodifluoromethane (CFC 12)	42.4	44.9	44.9	106	106	71-112	0	25	
74-87-3	Chloromethane	42.0	39.9	40.7	95	97	53-126	2	25	
75-01-4	Vinyl Chloride	42.0	43.1	43.1	103	103	63-123	0	25	
74-83-9	Bromomethane	42.0	41.7	41.4	99	99	71-112	0	25	
75-00-3	Chloroethane	42.4	40.3	40.3	95	95	66-117	0	25	
67-64-1	Acetone	212	191	187	90	88	60-117	2	25	
75-69-4	Trichlorofluoromethane	42.0	42.3	42.5	101	101	71-114	0	25	
75-35-4	1,1-Dichloroethene	40.8	40.6	40.3	100	99	74-114	1	25	
75-09-2	Methylene Chloride	40.8	42.6	42.0	104	103	75-112	1	25	
76-13-1	Trichlorotrifluoroethane	42.0	38.9	39.4	93	94	73-114	1	25	
75-15-0	Carbon Disulfide	86.0	83.2	83.1	97	97	70-113	0	25	
156-60-5	trans-1,2-Dichloroethene	43.2	41.2	40.3	95	93	76-119	2	25	
75-34-3	1,1-Dichloroethane	43.2	41.4	40.7	96	94	70-114	2	25	
1634-04-4	Methyl tert-Butyl Ether	43.2	45.2	44.2	105	102	72-118	3	25	
78-93-3	2-Butanone (MEK)	82.8	90.9	88.6	110	107	74-121	3	25	
156-59-2	cis-1,2-Dichloroethene	42.8	39.2	38.5	92	90	73-117	2	25	
67-66-3	Chloroform	43.2	45.1	44.0	104	102	71-114	2	25	
107-06-2	1,2-Dichloroethane	40.8	45.6	44.9	112	110	71-119	2	25	
71-55-6	1,1,1-Trichloroethane	42.0	41.8	41.4	100	99	73-119	1	25	
71-43-2	Benzene	40.8	41.7	41.6	102	102	72-113	0	25	
56-23-5	Carbon Tetrachloride	42.0	44.0	44.2	105	105	67-123	0	25	
110-82-7	Cyclohexane	85.2	82.3	81.1	97	95	70-119	2	25	
78-87-5	1,2-Dichloropropane	42.8	40.2	39.2	94	92	70-118	2	25	
75-27-4	Bromodichloromethane	43.2	44.6	44.1	103	102	74-119	1	25	
79-01-6	Trichloroethene	42.4	41.2	40.7	97	96	74-115	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: Duplicate Lab Control Sample

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P230327-DLCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 3/27/23

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
10061-01-5	cis-1,3-Dichloropropene	42.4	47.8	47.6	113	112	81-126	0.9	25	
108-10-1	4-Methyl-2-pentanone	85.2	93.8	93.3	110	110	73-129	0	25	
10061-02-6	trans-1,3-Dichloropropene	39.2	34.9	35.0	89	89	80-127	0	25	
79-00-5	1,1,2-Trichloroethane	43.2	41.7	41.4	97	96	78-117	1	25	
108-88-3	Toluene	42.8	39.3	38.7	92	90	70-118	2	25	
591-78-6	2-Hexanone	85.2	93.4	93.5	110	110	74-132	0	25	
124-48-1	Dibromochloromethane	42.8	39.7	39.3	93	92	69-137	1	25	
106-93-4	1,2-Dibromoethane	40.8	39.8	39.1	98	96	76-128	2	25	
127-18-4	Tetrachloroethene	42.8	39.6	38.9	93	91	63-130	2	25	
108-90-7	Chlorobenzene	43.2	38.2	38.1	88	88	70-118	0	25	
100-41-4	Ethylbenzene	43.6	39.9	39.1	92	90	71-123	2	25	
179601-23-1	m,p-Xylenes	86.0	77.3	75.8	90	88	67-127	2	25	
75-25-2	Bromoform	43.6	37.4	37.5	86	86	65-149	0	25	
100-42-5	Styrene	42.8	39.7	39.4	93	92	76-132	1	25	
95-47-6	o-Xylene	43.2	40.1	39.6	93	92	69-124	1	25	
79-34-5	1,1,2,2-Tetrachloroethane	43.2	43.2	43.1	100	100	69-128	0	25	
98-82-8	Cumene	42.4	40.7	40.0	96	94	69-125	2	25	
541-73-1	1,3-Dichlorobenzene	42.8	38.8	37.9	91	89	67-136	2	25	
106-46-7	1,4-Dichlorobenzene	42.8	34.6	34.4	81	80	63-134	1	25	
95-50-1	1,2-Dichlorobenzene	42.4	39.8	39.4	94	93	64-139	1	25	
96-12-8	1,2-Dibromo-3-chloropropane	83.2	78.6	78.0	94	94	72-145	0	25	
120-82-1	1,2,4-Trichlorobenzene	88.0	68.1	67.9	77	77	62-154	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Data File : I:\MS16\DATA\2023_03\27\03272305.D

Vial: 2

Acq On : 27 Mar 2023 6:36

Operator: WA

Sample : LCS R23032723_5ng

Inst : GCMS-16

Misc : S35-01312301/S35-03212304 (4/20)

Quant Time: Mar 27 08:41:39 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:TO15B.M

4074 3/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.29	130	208121	12.500	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	13.41	114	966771	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.72	54	201678	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	377372	13.635	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	109.04%	
57) Toluene-d8 (SS2)	15.86	98	1087590	12.318	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	98.56%	
73) Bromofluorobenzene (SS3)	19.10	174	323631	11.752	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	94.00%	

Target Compounds

						Qvalue
2) Propene	4.17	42	116949	4.166	ng	97
3) Dichlorodifluoromethan...	4.33	85	174411	5.607	ng	100
4) Chloromethane	4.62	50	145033	4.985	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	4.89	135	90385	5.203	ng	99
6) Vinyl Chloride	5.04	62	145559	5.392	ng	99
7) 1,3-Butadiene	5.31	54	121267	5.361	ng	94
8) Bromomethane	5.76	94	70676	5.207	ng	98
9) Chloroethane	6.09	64	65391	5.032	ng	97
10) Ethanol	6.47	45	411750	20.558	ng	99
11) Acetonitrile	6.72	41	194050	3.868	ng	98
12) Acrolein	6.91	56	133855	9.437	ng	100
13) Acetone	7.13	58	365480	23.860	ng	88
14) Trichlorofluoromethane	7.37	101	151667	5.285	ng	99
15) 2-Propanol (Isopropanol)	7.63	45	567641	10.642	ng	93
16) Acrylonitrile	7.89	53	261723	9.158	ng	99
17) 1,1-Dichloroethene	8.34	96	83818	5.076	ng	98
18) 2-Methyl-2-Propanol (t...	8.51	59	458597	12.060	ng	97
19) Methylene Chloride	8.56	84	90231	5.330	ng	91
20) 3-Chloro-1-propene (Al...	8.73	41	129176	4.149	ng	96
21) Trichlorotrifluoroethane	8.99	151	69537	4.864	ng	92
22) Carbon Disulfide	8.83	76	627486	10.398	ng	100
23) trans-1,2-Dichloroethene	9.84	61	131550	5.154	ng	96
24) 1,1-Dichloroethane	10.09	63	160697	5.181	ng	99
25) Methyl tert-Butyl Ether	10.20	73	254236	5.653	ng	96
26) Vinyl Acetate	10.35	86	110226	32.203	ng	# 93
27) 2-Butanone (MEK)	10.60	72	126117	11.357	ng	94
28) cis-1,2-Dichloroethene	11.11	61	125047	4.903	ng	96
29) Diisopropyl Ether	11.41	87	172191	10.894	ng	# 38
30) Ethyl Acetate	11.42	61	68380	9.415	ng	96
31) n-Hexane	11.40	57	176027	4.843	ng	98
32) Chloroform	11.46	83	156751	5.643	ng	98
34) Tetrahydrofuran (THF)	11.87	72	111168	9.761	ng	95
35) Ethyl tert-Butyl Ether	12.00	87	177037	10.700	ng	94
36) 1,2-Dichloroethane	12.26	62	128413	5.694	ng	99
38) 1,1,1-Trichloroethane	12.54	97	136599	5.222	ng	100
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.02	78	354469	5.207	ng	99
42) Carbon Tetrachloride	13.18	117	121766	5.502	ng	99
43) Cyclohexane	13.31	84	295977	10.293	ng	92
44) tert-Amyl Methyl Ether	13.66	73	376844	11.030	ng	99
45) 1,2-Dichloropropane	13.87	63	95847	5.022	ng	99
46) Bromodichloromethane	14.06	83	124977	5.572	ng	99
47) Trichloroethene	14.12	130	95406	5.153	ng	98
48) 1,4-Dioxane	14.09	88	74387	5.804	ng	93
49) 2,2,4-Trimethylpentane...	14.18	57	417517	4.546	ng	91
50) Methyl Methacrylate	14.32	100	75870	9.884	ng	92

Data File : I:\MS16\DATA\2023_03\27\03272305.D
 Acq On : 27 Mar 2023 6:36
 Sample : LCS R23032723_5ng
 Misc : S35-01312301/S35-03212304 (4/20)

Vial: 2
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 08:41:39 2023
 Quant Method : I:\MS16\METHODS\R16122022.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Dec 21 03:06:38 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.45	71	104511	5.232	ng	93
52) cis-1,3-Dichloropropene	14.98	75	150275	5.971	ng	100
53) 4-Methyl-2-pentanone	15.01	58	185005	11.726	ng	91
54) trans-1,3-Dichloropropene	15.50	75	105386	4.361	ng	98
55) 1,1,2-Trichloroethane	15.67	97	86062	5.210	ng	95
58) Toluene	15.96	91	379840	4.912	ng	98
59) 2-Hexanone	16.21	43	476756	11.672	ng	95
60) Dibromochloromethane	16.37	129	96071	4.961	ng	99
61) 1,2-Dibromoethane	16.62	107	92162	4.980	ng	99
62) n-Butyl Acetate	16.84	43	525951	11.279	ng	96
63) n-Octane	16.97	57	88644	4.478	ng	94
64) Tetrachloroethene	17.11	166	97363	4.945	ng	100
65) Chlorobenzene	17.76	112	244261	4.779	ng	100
66) Ethylbenzene	18.11	91	435419	4.986	ng	98
67) m- & p-Xylenes	18.27	91	667719	9.668	ng	100
68) Bromoform	18.33	173	77061	4.669	ng	100
69) Styrene	18.60	104	241135	4.962	ng	98
70) o-Xylene	18.70	91	340240	5.009	ng	99
71) n-Nonane	18.90	43	229048	4.725	ng	94
72) 1,1,2,2-Tetrachloroethane	18.68	83	160925	5.399	ng	100
74) Cumene	19.22	105	435458	5.084	ng	98
75) alpha-Pinene	19.57	93	100576	4.574	ng	99
76) n-Propylbenzene	19.67	91	530644	5.090	ng	97
77) 3-Ethyltoluene	20.22	105	366175	No Calib	#	
78) 4-Ethyltoluene	19.80	105	431171	5.306	ng	97
79) 1,3,5-Trimethylbenzene	19.86	105	359811	4.943	ng	96
80) alpha-Methylstyrene	20.46	118	1587	No Calib	#	
81) 2-Ethyltoluene	20.22	105	366175	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.22	105	366175	5.261	ng	98
83) n-Decane	20.22	58	18978	No Calib		
84) Benzyl Chloride	20.34	91	331828	7.841	ng	97
85) 1,3-Dichlorobenzene	20.36	146	187016	4.852	ng	100
86) 1,4-Dichlorobenzene	20.41	146	173737	4.331	ng	99
87) sec-Butylbenzene	20.46	105	496272	5.232	ng	98
88) 4-Isopropyltoluene (p-...	20.59	119	479933	4.697	ng	98
89) 1,2,3-Trimethylbenzene	20.22	105	366175	No Calib	#	
90) 1,2-Dichlorobenzene	20.72	146	189007	4.981	ng	100
91) d-Limonene	20.72	68	96674	4.865	ng	100
92) 1,2-Dibromo-3-Chloropr...	21.09	157	140048	9.831	ng	# 78
93) n-Undecane	21.34	58	403	No Calib	#	
94) 1,2,4-Trichlorobenzene	22.22	180	221377	8.513	ng	99
95) Naphthalene	22.33	128	301787	3.535	ng	100
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	22.65	225	85655	4.818	ng	99
98) Cyclohexanone	18.13	55	992	No Calib	#	
99) tert-Butylbenzene	20.22	119	371892	5.185	ng	99
100) n-Butylbenzene	20.96	91	394472	5.289	ng	98
101) 1,1,1,2-Tetrachloroethane	17.74	131	90434	5.044	ng	98

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

Data File : I:\MS16\DATA\2023_03\27\03272305.D
Acq On : 27 Mar 2023 6:36
Sample : LCS R23032723_5ng
Misc : S35-01312301/S35-03212304 (4/20)

Vial: 2
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 08:41:39 2023

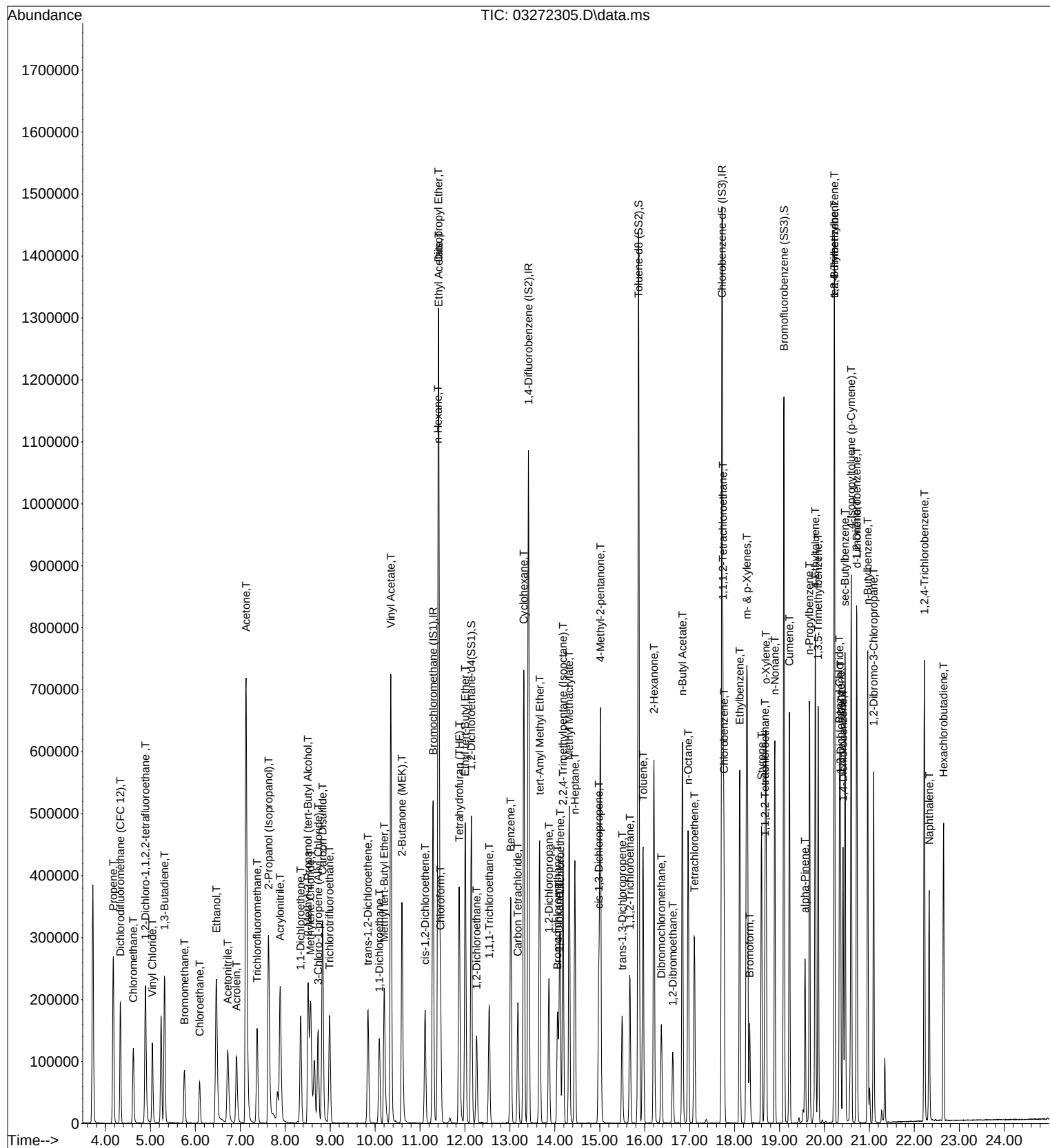
Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M



Data File : I:\MS16\DATA\2023_03\27\03272306.D

Vial: 2

Acq On : 27 Mar 2023 7:10

Operator: WA

Sample : LCSD R23032723_5ng

Inst : GCMS-16

Misc : S35-01312301/S35-03212304 (4/20)

Quant Time: Mar 27 08:41:44 2023

3/27/23

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:TO15B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.29	130	216341	12.500	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	13.41	114	995074	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.72	54	208160	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	389128	13.525	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	108.24%
57) Toluene-d8 (SS2)	15.86	98	1116086	12.247	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	98.00%
73) Bromofluorobenzene (SS3)	19.10	174	336901	11.853	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	94.80%

Target Compounds

						Qvalue
2) Propene	4.17	42	121458	4.162	ng	97
3) Dichlorodifluoromethan...	4.33	85	181539	5.614	ng	100
4) Chloromethane	4.62	50	153940	5.090	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	4.89	135	95084	5.266	ng	99
6) Vinyl Chloride	5.05	62	151254	5.390	ng	100
7) 1,3-Butadiene	5.32	54	126951	5.399	ng	95
8) Bromomethane	5.76	94	72960	5.171	ng	100
9) Chloroethane	6.10	64	68095	5.041	ng	99
10) Ethanol	6.47	45	424908	20.409	ng	99
11) Acetonitrile	6.73	41	201291	3.860	ng	99
12) Acrolein	6.92	56	137418	9.320	ng	99
13) Acetone	7.13	58	371683	23.343	ng	87
14) Trichlorofluoromethane	7.37	101	158426	5.311	ng	100
15) 2-Propanol (Isopropanol)	7.63	45	584784	10.547	ng	93
16) Acrylonitrile	7.89	53	271398	9.136	ng	100
17) 1,1-Dichloroethene	8.35	96	86472	5.037	ng	99
18) 2-Methyl-2-Propanol (t...	8.51	59	463564	11.727	ng	97
19) Methylene Chloride	8.57	84	92372	5.249	ng	91
20) 3-Chloro-1-propene (Al...	8.73	41	135874	4.199	ng	97
21) Trichlorotrifluoroethane	8.99	151	73105	4.919	ng	93
22) Carbon Disulfide	8.83	76	651907	10.392	ng	100
23) trans-1,2-Dichloroethene	9.84	61	133579	5.034	ng	95
24) 1,1-Dichloroethane	10.10	63	163855	5.082	ng	99
25) Methyl tert-Butyl Ether	10.21	73	258327	5.525	ng	95
26) Vinyl Acetate	10.35	86	115454	32.448	ng	# 91
27) 2-Butanone (MEK)	10.60	72	127828	11.074	ng	96
28) cis-1,2-Dichloroethene	11.11	61	127593	4.813	ng	96
29) Diisopropyl Ether	11.41	87	176877	10.766	ng	# 37
30) Ethyl Acetate	11.42	61	69483	9.203	ng	96
31) n-Hexane	11.40	57	181078	4.793	ng	98
32) Chloroform	11.45	83	158956	5.505	ng	100
34) Tetrahydrofuran (THF)	11.87	72	114310	9.655	ng	95
35) Ethyl tert-Butyl Ether	12.00	87	178364	10.371	ng	93
36) 1,2-Dichloroethane	12.26	62	131590	5.613	ng	99
38) 1,1,1-Trichloroethane	12.54	97	139254	5.173	ng	99
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.02	78	364355	5.200	ng	99
42) Carbon Tetrachloride	13.18	117	125798	5.522	ng	98
43) Cyclohexane	13.31	84	299983	10.136	ng	92
44) tert-Amyl Methyl Ether	13.66	73	375667	10.683	ng	99
45) 1,2-Dichloropropane	13.87	63	96165	4.895	ng	99
46) Bromodichloromethane	14.06	83	127380	5.518	ng	99
47) Trichloroethene	14.12	130	97048	5.093	ng	98
48) 1,4-Dioxane	14.09	88	75569	5.728	ng	93
49) 2,2,4-Trimethylpentane...	14.18	57	430945	4.558	ng	91
50) Methyl Methacrylate	14.32	100	78186	9.896	ng	94

Data File : I:\MS16\DATA\2023_03\27\03272306.D
 Acq On : 27 Mar 2023 7:10
 Sample : LCSD R23032723_5ng
 Misc : S35-01312301/S35-03212304 (4/20)

Vial: 2
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 27 08:41:44 2023
 Quant Method : I:\MS16\METHODS\R16122022.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Dec 21 03:06:38 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.45	71	106044	5.158	ng	95
52) cis-1,3-Dichloropropene	14.98	75	154243	5.954	ng	100
53) 4-Methyl-2-pentanone	15.01	58	189341	11.659	ng	91
54) trans-1,3-Dichloropropene	15.50	75	108861	4.377	ng	99
55) 1,1,2-Trichloroethane	15.67	97	87927	5.171	ng	96
58) Toluene	15.96	91	386293	4.840	ng	98
59) 2-Hexanone	16.21	43	492803	11.689	ng	95
60) Dibromochloromethane	16.37	129	98301	4.918	ng	100
61) 1,2-Dibromoethane	16.62	107	93414	4.891	ng	100
62) n-Butyl Acetate	16.84	43	542176	11.265	ng	96
63) n-Octane	16.96	57	90837	4.446	ng	94
64) Tetrachloroethene	17.11	166	98839	4.864	ng	100
65) Chlorobenzene	17.76	112	251171	4.761	ng	100
66) Ethylbenzene	18.11	91	440495	4.887	ng	99
67) m- & p-Xylenes	18.28	91	675452	9.476	ng	99
68) Bromoform	18.33	173	79818	4.686	ng	99
69) Styrene	18.60	104	247161	4.928	ng	98
70) o-Xylene	18.70	91	346819	4.947	ng	99
71) n-Nonane	18.90	43	234055	4.678	ng	93
72) 1,1,2,2-Tetrachloroethane	18.68	83	165604	5.383	ng	100
74) Cumene	19.22	105	442340	5.004	ng	98
75) alpha-Pinene	19.57	93	95820	4.222	ng	99
76) n-Propylbenzene	19.66	91	539001	5.009	ng	98
77) 3-Ethyltoluene	20.22	105	375207	No Calib	#	
78) 4-Ethyltoluene	19.80	105	443937	5.293	ng	97
79) 1,3,5-Trimethylbenzene	19.86	105	367576	4.892	ng	97
80) alpha-Methylstyrene	20.46	118	1744	No Calib	#	
81) 2-Ethyltoluene	20.22	105	375207	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.22	105	375207	5.223	ng	98
83) n-Decane	20.22	58	19490	No Calib		
84) Benzyl Chloride	20.34	91	347854	7.964	ng	98
85) 1,3-Dichlorobenzene	20.36	146	188702	4.743	ng	99
86) 1,4-Dichlorobenzene	20.41	146	177843	4.295	ng	99
87) sec-Butylbenzene	20.46	105	507983	5.188	ng	98
88) 4-Isopropyltoluene (p-...	20.59	119	493908	4.684	ng	98
89) 1,2,3-Trimethylbenzene	20.22	105	375207	No Calib	#	
90) 1,2-Dichlorobenzene	20.72	146	192842	4.924	ng	100
91) d-Limonene	20.72	68	94651	4.615	ng	98
92) 1,2-Dibromo-3-Chloropr...	21.09	157	143407	9.753	ng	# 79
93) n-Undecane	21.34	58	544	No Calib	#	
94) 1,2,4-Trichlorobenzene	22.22	180	227908	8.491	ng	99
95) Naphthalene	22.33	128	313009	3.552	ng	100
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	22.65	225	87478	4.768	ng	99
98) Cyclohexanone	18.13	55	993	No Calib	#	
99) tert-Butylbenzene	20.22	119	383509	5.180	ng	99
100) n-Butylbenzene	20.96	91	398633	5.178	ng	97
101) 1,1,1,2-Tetrachloroethane	17.74	131	92932	5.022	ng	98

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

Data File : I:\MS16\DATA\2023_03\27\03272306.D
Acq On : 27 Mar 2023 7:10
Sample : LCSD R23032723_5ng
Misc : S35-01312301/S35-03212304 (4/20)

Vial: 2
Operator: WA
Inst : GCMS-16

Quant Time: Mar 27 08:41:44 2023

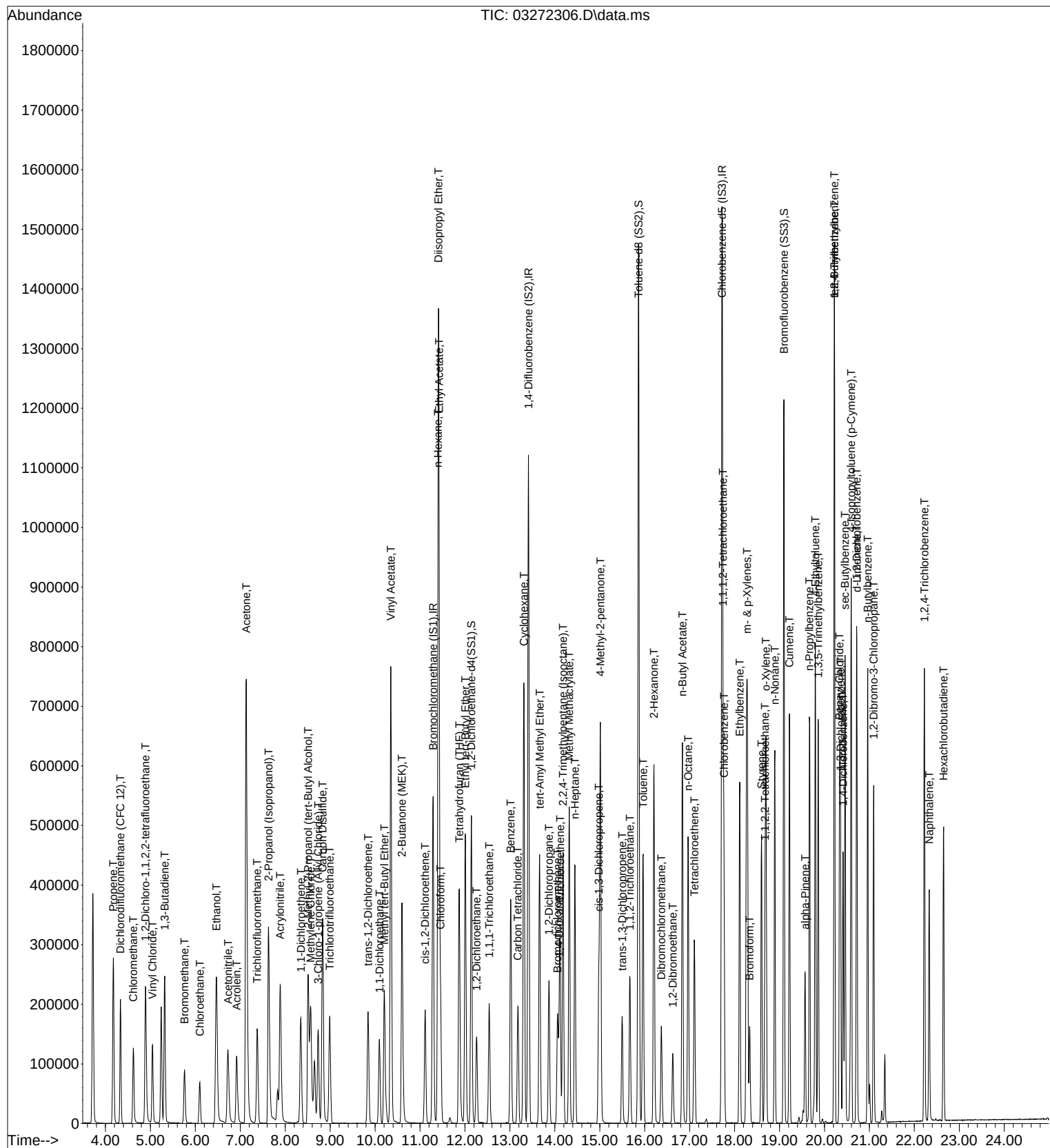
Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M



ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

Client: WSP USA Inc.
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250
 ALS Sample ID: P230328-DLCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Topacio Zavala
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/28/23
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
75-71-8	Dichlorodifluoromethane (CFC 12)	212	207	208	98	98	71-112	0	25	
74-87-3	Chloromethane	210	218	219	104	104	53-126	0	25	
75-01-4	Vinyl Chloride	210	187	190	89	90	63-123	1	25	
74-83-9	Bromomethane	210	202	201	96	96	71-112	0	25	
75-00-3	Chloroethane	212	210	211	99	100	66-117	1	25	
67-64-1	Acetone	1,060	1020	1030	96	97	60-117	1	25	
75-69-4	Trichlorofluoromethane	210	206	205	98	98	71-114	0	25	
75-35-4	1,1-Dichloroethene	204	208	209	102	102	74-114	0	25	
75-09-2	Methylene Chloride	204	205	207	100	101	75-112	1	25	
76-13-1	Trichlorotrifluoroethane	210	204	203	97	97	73-114	0	25	
75-15-0	Carbon Disulfide	430	392	391	91	91	70-113	0	25	
156-60-5	trans-1,2-Dichloroethene	216	222	224	103	104	76-119	1	25	
75-34-3	1,1-Dichloroethane	216	213	212	99	98	70-114	1	25	
1634-04-4	Methyl tert-Butyl Ether	216	213	213	99	99	72-118	0	25	
78-93-3	2-Butanone (MEK)	414	428	429	103	104	74-121	1	25	
156-59-2	cis-1,2-Dichloroethene	214	212	212	99	99	73-117	0	25	
67-66-3	Chloroform	216	210	208	97	96	71-114	1	25	
107-06-2	1,2-Dichloroethane	204	227	225	111	110	71-119	0.9	25	
71-55-6	1,1,1-Trichloroethane	210	212	212	101	101	73-119	0	25	
71-43-2	Benzene	204	210	213	103	104	72-113	1	25	
56-23-5	Carbon Tetrachloride	210	223	225	106	107	67-123	0.9	25	
110-82-7	Cyclohexane	426	413	416	97	98	70-119	1	25	
78-87-5	1,2-Dichloropropane	214	209	213	98	100	70-118	2	25	
75-27-4	Bromodichloromethane	216	217	220	100	102	74-119	2	25	
79-01-6	Trichloroethene	212	204	206	96	97	74-115	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: Duplicate Lab Control Sample

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P230328-DLCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Topacio Zavala

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 3/28/23

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
10061-01-5	cis-1,3-Dichloropropene	212	241	245	114	116	81-126	2	25	
108-10-1	4-Methyl-2-pentanone	426	459	466	108	109	73-129	0.9	25	
10061-02-6	trans-1,3-Dichloropropene	196	205	207	105	106	80-127	0.9	25	
79-00-5	1,1,2-Trichloroethane	216	207	209	96	97	78-117	1	25	
108-88-3	Toluene	214	181	184	85	86	70-118	1	25	
591-78-6	2-Hexanone	426	431	435	101	102	74-132	1	25	
124-48-1	Dibromochloromethane	214	198	199	93	93	69-137	0	25	
106-93-4	1,2-Dibromoethane	204	188	191	92	94	76-128	2	25	
127-18-4	Tetrachloroethene	214	184	185	86	86	63-130	0	25	
108-90-7	Chlorobenzene	216	187	189	87	88	70-118	1	25	
100-41-4	Ethylbenzene	218	180	181	83	83	71-123	0	25	
179601-23-1	m,p-Xylenes	430	360	362	84	84	67-127	0	25	
75-25-2	Bromoform	218	202	204	93	94	65-149	1	25	
100-42-5	Styrene	214	196	199	92	93	76-132	1	25	
95-47-6	o-Xylene	216	187	189	87	88	69-124	1	25	
79-34-5	1,1,2,2-Tetrachloroethane	216	202	204	94	94	69-128	0	25	
98-82-8	Cumene	212	187	189	88	89	69-125	1	25	
541-73-1	1,3-Dichlorobenzene	214	186	187	87	87	67-136	0	25	
106-46-7	1,4-Dichlorobenzene	214	182	185	85	86	63-134	1	25	
95-50-1	1,2-Dichlorobenzene	212	186	188	88	89	64-139	1	25	
96-12-8	1,2-Dibromo-3-chloropropane	416	378	391	91	94	72-145	3	25	
120-82-1	1,2,4-Trichlorobenzene	440	368	391	84	89	62-154	6	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Data File : I:\MS13\DATA\2023_03\28\03282304.D
 Acq On : 28 Mar 2023 4:49
 Sample : LCS R13032823 25ng
 Misc : S35-01202301/S35-03162301 (4/15)

Vial: 1
 Operator: TZ
 Inst : MS13

TZ 3/28/23

Quant Time: Mar 28 08:04:05 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.34	130	231709	12.500	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	9.39	114	1025442	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	14.88	54	196634	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.10	65	400963	13.040	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	104.32%
57) Toluene-d8 (SS2)	12.48	98	1165988	11.530	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.24%
73) Bromofluorobenzene (SS3)	16.85	174	427834	11.551	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.40%

Target Compounds

						Qvalue
2) Propene	3.37	42	581133	25.077	ng	99
3) Dichlorodifluoromethan...	3.45	85	1099754	25.913	ng	100
4) Chloromethane	3.59	50	833814	27.244	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	3.70	135	487551	22.753	ng	99
6) Vinyl Chloride	3.78	62	663107	23.397	ng	100
7) 1,3-Butadiene	3.89	54	585131	27.252	ng	99
8) Bromomethane	4.12	94	479367	25.240	ng	100
9) Chloroethane	4.25	64	352172	26.271	ng	99
10) Ethanol	4.42	45	2117893	128.699	ng	100
11) Acetonitrile	4.56	41	1000407	23.398	ng	100
12) Acrolein	4.63	56	759410	55.801	ng	100
13) Acetone	4.74	58	1797252	127.966	ng	96
14) Trichlorofluoromethane	4.85	101	982429	25.713	ng	100
15) 2-Propanol (Isopropanol)	4.97	45	3076696	54.263	ng	100
16) Acrylonitrile	5.12	53	1424598	53.172	ng	99
17) 1,1-Dichloroethene	5.35	96	509876	25.987	ng	95
18) 2-Methyl-2-Propanol (t...	5.44	59	3025175	54.560	ng	99
19) Methylene Chloride	5.47	84	528312	25.660	ng	93
20) 3-Chloro-1-propene (Al...	5.55	41	803611	24.443	ng	97
21) Trichlorotrifluoroethane	5.67	151	512861	25.528	ng	98
22) Carbon Disulfide	5.70	76	3991182	48.954	ng	100
23) trans-1,2-Dichloroethene	6.25	61	835113	27.790	ng	96
24) 1,1-Dichloroethane	6.43	63	976038	26.637	ng	100
25) Methyl tert-Butyl Ether	6.46	73	1710950	26.640	ng	99
26) Vinyl Acetate	6.55	86	589046	155.101	ng	# 84
27) 2-Butanone (MEK)	6.77	72	667047	53.501	ng	# 90
28) cis-1,2-Dichloroethene	7.18	61	784569	26.508	ng	97
29) Diisopropyl Ether	7.37	87	791164	51.089	ng	# 42
30) Ethyl Acetate	7.38	61	375748	45.831	ng	100
31) n-Hexane	7.38	57	825889	26.172	ng	98
32) Chloroform	7.47	83	979142	26.229	ng	100
34) Tetrahydrofuran (THF)	7.84	72	611314	47.741	ng	94
35) Ethyl tert-Butyl Ether	7.91	87	1249358	52.819	ng	97
36) 1,2-Dichloroethane	8.21	62	803432	28.415	ng	99
38) 1,1,1-Trichloroethane	8.49	97	897466	26.441	ng	99
39) Isopropyl Acetate	9.39	61	29243	No Calib	#	
40) 1-Butanol	8.89	56	2124	No Calib	#	
41) Benzene	8.99	78	2092655	26.233	ng	100
42) Carbon Tetrachloride	9.15	117	833682	27.843	ng	99
43) Cyclohexane	9.30	84	1509043	51.601	ng	97
44) tert-Amyl Methyl Ether	9.67	73	3082422	53.280	ng	98
45) 1,2-Dichloropropane	9.93	63	526033	26.137	ng	100
46) Bromodichloromethane	10.15	83	799619	27.108	ng	99
47) Trichloroethene	10.22	130	596022	25.503	ng	100
48) 1,4-Dioxane	10.19	88	439435	27.326	ng	98
49) 2,2,4-Trimethylpentane...	10.30	57	2039549	25.143	ng	100
50) Methyl Methacrylate	10.47	100	438031	53.398	ng	95

Data File : I:\MS13\DATA\2023_03\28\03282304.D
 Acq On : 28 Mar 2023 4:49
 Sample : LCS R13032823 25ng
 Misc : S35-01202301/S35-03162301 (4/15)

Vial: 1
 Operator: TZ
 Inst : MS13

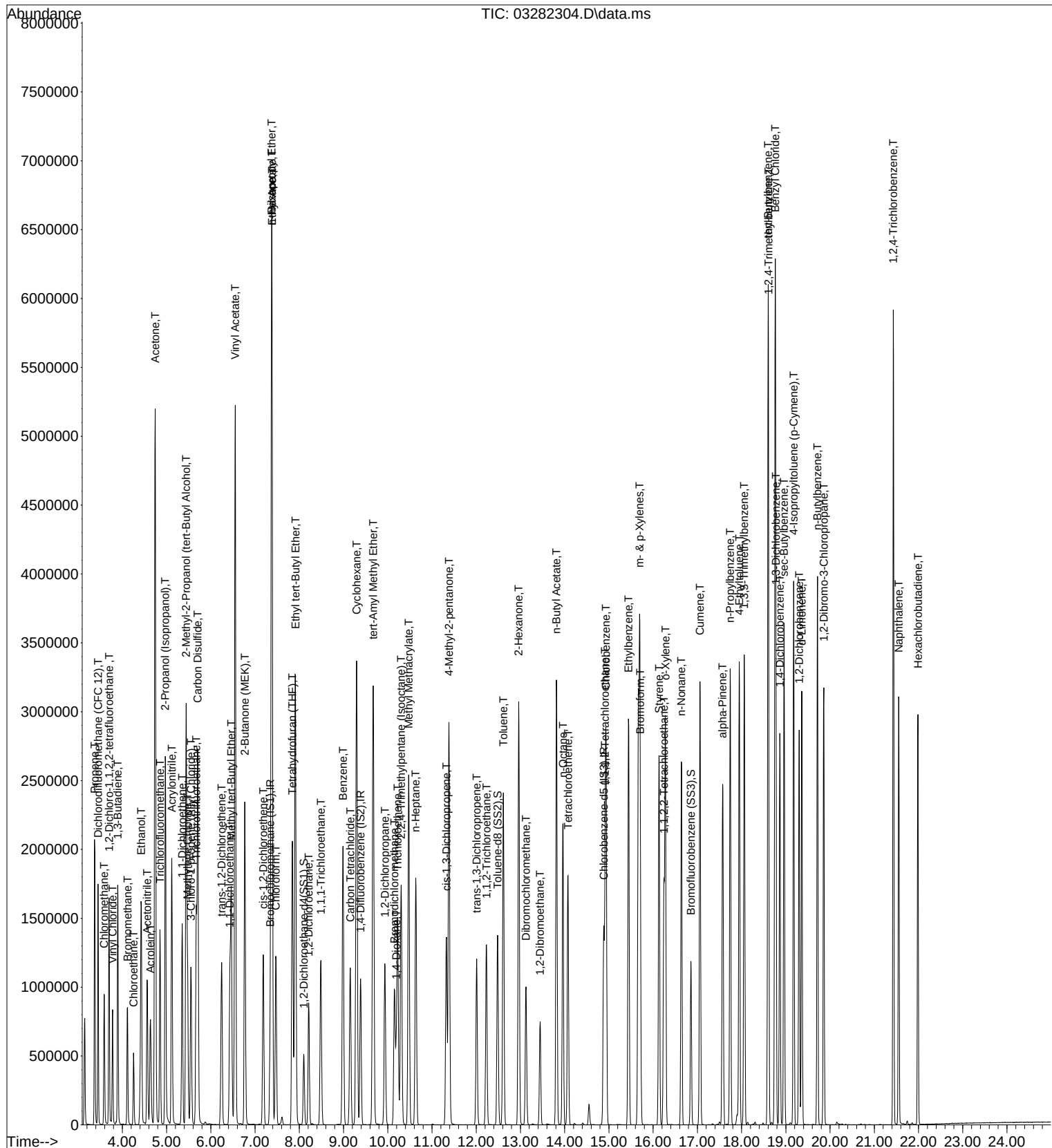
Quant Time: Mar 28 08:04:05 2023
 Quant Method : I:\MS13\METHODS\R13022223.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Feb 23 07:57:30 2023
 Response via : Initial Calibration
 DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.63	71	511540	26.499	ng	99
52) cis-1,3-Dichloropropene	11.33	75	983799	30.081	ng	100
53) 4-Methyl-2-pentanone	11.38	58	987676	57.430	ng	95
54) trans-1,3-Dichloropropene	12.01	75	813326	25.674	ng	100
55) 1,1,2-Trichloroethane	12.23	97	533690	25.848	ng	99
58) Toluene	12.61	91	2182615	22.672	ng	100
59) 2-Hexanone	12.96	43	2521373	53.920	ng	97
60) Dibromochloromethane	13.13	129	699483	24.758	ng	99
61) 1,2-Dibromoethane	13.44	107	629994	23.507	ng	100
62) n-Butyl Acetate	13.81	43	2836955	53.370	ng	98
63) n-Octane	13.96	57	457085	24.146	ng	96
64) Tetrachloroethene	14.08	166	673588	23.000	ng	99
65) Chlorobenzene	14.94	112	1481394	23.330	ng	100
66) Ethylbenzene	15.44	91	2579307	22.459	ng	99
67) m- & p-Xylenes	15.69	91	4154968	44.951	ng	99
68) Bromoform	15.71	173	645335	25.283	ng	99
69) Styrene	16.14	104	1560843	24.559	ng	99
70) o-Xylene	16.28	91	2065992	23.375	ng	99
71) n-Nonane	16.64	43	1101689	25.759	ng	97
72) 1,1,2,2-Tetrachloroethane	16.24	83	964410	25.259	ng	100
74) Cumene	17.06	105	2506998	23.322	ng	100
75) alpha-Pinene	17.57	93	1189107	23.976	ng	99
76) n-Propylbenzene	17.74	91	3073631	23.851	ng	99
77) 3-Ethyltoluene	17.35	105	520	No Calib	#	
78) 4-Ethyltoluene	17.95	105	2516671	24.406	ng	100
79) 1,3,5-Trimethylbenzene	18.06	105	2155642	23.640	ng	100
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.35	105	520	No Calib	#	
82) 1,2,4-Trimethylbenzene	18.61	105	2157409	23.993	ng	98
83) n-Decane	17.06	58	20343	No Calib		
84) Benzyl Chloride	18.76	91	3945172	54.227	ng	99
85) 1,3-Dichlorobenzene	18.78	146	1264959	23.258	ng	99
86) 1,4-Dichlorobenzene	18.86	146	1279091	22.708	ng	100
87) sec-Butylbenzene	18.96	105	2716765	22.906	ng	99
88) 4-Isopropyltoluene (p-...	19.18	119	2419238	23.207	ng	99
89) 1,2,3-Trimethylbenzene	17.35	105	520	No Calib	#	
90) 1,2-Dichlorobenzene	19.30	146	1250595	23.233	ng	100
91) d-Limonene	19.36	68	754060	24.800	ng	99
92) 1,2-Dibromo-3-Chloropr...	19.86	157	963944	47.293	ng	94
93) n-Undecane	18.30	58	341	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	1863820	46.038	ng	100
95) Naphthalene	21.55	128	2367043	24.286	ng	100
96) n-Dodecane	19.18	58	73610	No Calib		
97) Hexachlorobutadiene	21.99	225	573594	18.273	ng	100
98) Cyclohexanone	15.69	55	2747	No Calib	#	
99) tert-Butylbenzene	18.60	119	1838702	21.782	ng	99
100) n-Butylbenzene	19.72	91	2265868	24.573	ng	99
101) 1,1,1,2-Tetrachloroethane	14.91	131	568510	23.752	ng	100

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

Vial: 1
Operator: TZ
Inst : MS13

Quant Time: Mar 28 08:04:05 2023



Data File : I:\MS13\DATA\2023_03\28\03282305.D
 Acq On : 28 Mar 2023 5:25
 Sample : LCSD R13032823 25ng
 Misc : S35-01202301/S35-03162301 (4/15)

Vial: 1
 Operator: TZ
 Inst : MS13

Tz 3/28/23

Quant Time: Mar 28 08:04:06 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.34	130	235870	12.500	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	9.39	114	1032284	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	14.88	54	198101	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.11	65	401616	12.831	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.64%
57) Toluene-d8 (SS2)	12.48	98	1174090	11.524	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.16%
73) Bromofluorobenzene (SS3)	16.86	174	430926	11.549	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	92.40%

Target Compounds

						Qvalue
2) Propene	3.38	42	596022	25.265	ng	99
3) Dichlorodifluoromethan...	3.46	85	1121345	25.956	ng	100
4) Chloromethane	3.59	50	854585	27.430	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	3.70	135	508811	23.327	ng	100
6) Vinyl Chloride	3.78	62	685794	23.770	ng	100
7) 1,3-Butadiene	3.90	54	595883	27.263	ng	99
8) Bromomethane	4.12	94	486750	25.177	ng	99
9) Chloroethane	4.26	64	360075	26.386	ng	99
10) Ethanol	4.43	45	2187105	130.560	ng	100
11) Acetonitrile	4.57	41	1037028	23.827	ng	100
12) Acrolein	4.64	56	777099	56.094	ng	100
13) Acetone	4.75	58	1833818	128.266	ng	96
14) Trichlorofluoromethane	4.86	101	997230	25.640	ng	99
15) 2-Propanol (Isopropanol)	4.98	45	3158413	54.722	ng	100
16) Acrylonitrile	5.12	53	1461645	53.592	ng	99
17) 1,1-Dichloroethene	5.36	96	521157	26.093	ng	96
18) 2-Methyl-2-Propanol (t...	5.45	59	3085832	54.673	ng	99
19) Methylene Chloride	5.48	84	541364	25.830	ng	94
20) 3-Chloro-1-propene (Al...	5.55	41	825737	24.673	ng	96
21) Trichlorotrifluoroethane	5.68	151	519058	25.381	ng	98
22) Carbon Disulfide	5.71	76	4052587	48.830	ng	100
23) trans-1,2-Dichloroethene	6.25	61	855313	27.960	ng	96
24) 1,1-Dichloroethane	6.43	63	989242	26.521	ng	100
25) Methyl tert-Butyl Ether	6.47	73	1742123	26.647	ng	99
26) Vinyl Acetate	6.55	86	598328	154.766	ng	# 82
27) 2-Butanone (MEK)	6.77	72	681203	53.672	ng	# 90
28) cis-1,2-Dichloroethene	7.19	61	797007	26.454	ng	97
29) Diisopropyl Ether	7.37	87	802722	50.921	ng	# 42
30) Ethyl Acetate	7.38	61	385204	46.156	ng	100
31) n-Hexane	7.39	57	845032	26.306	ng	99
32) Chloroform	7.47	83	988912	26.023	ng	100
34) Tetrahydrofuran (THF)	7.84	72	626802	48.087	ng	94
35) Ethyl tert-Butyl Ether	7.91	87	1273789	52.902	ng	96
36) 1,2-Dichloroethane	8.21	62	810909	28.173	ng	99
38) 1,1,1-Trichloroethane	8.49	97	906230	26.523	ng	99
39) Isopropyl Acetate	9.39	61	29826	No Calib		
40) 1-Butanol	8.90	56	2327	No Calib	#	
41) Benzene	8.99	78	2136097	26.600	ng	100
42) Carbon Tetrachloride	9.15	117	847464	28.116	ng	100
43) Cyclohexane	9.30	84	1531965	52.038	ng	96
44) tert-Amyl Methyl Ether	9.67	73	3211628	55.145	ng	99
45) 1,2-Dichloropropane	9.94	63	539673	26.637	ng	100
46) Bromodichloromethane	10.16	83	815972	27.479	ng	100
47) Trichloroethene	10.22	130	605035	25.718	ng	99
48) 1,4-Dioxane	10.19	88	453620	28.021	ng	98
49) 2,2,4-Trimethylpentane...	10.30	57	2147528	26.298	ng	100
50) Methyl Methacrylate	10.47	100	445494	53.947	ng	94

Data File : I:\MS13\DATA\2023_03\28\03282305.D
 Acq On : 28 Mar 2023 5:25
 Sample : LCSD R13032823 25ng
 Misc : S35-01202301/S35-03162301 (4/15)

Vial: 1
 Operator: TZ
 Inst : MS13

Quant Time: Mar 28 08:04:06 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.64	71	522646	26.895	ng	99
52) cis-1,3-Dichloropropene	11.33	75	1006614	30.574	ng	100
53) 4-Methyl-2-pentanone	11.38	58	1009164	58.290	ng	95
54) trans-1,3-Dichloropropene	12.01	75	823777	25.831	ng	100
55) 1,1,2-Trichloroethane	12.23	97	542596	26.105	ng	98
58) Toluene	12.61	91	2235535	23.050	ng	100
59) 2-Hexanone	12.96	43	2564028	54.426	ng	98
60) Dibromochloromethane	13.13	129	709530	24.928	ng	100
61) 1,2-Dibromoethane	13.44	107	645427	23.904	ng	99
62) n-Butyl Acetate	13.81	43	2884913	53.870	ng	98
63) n-Octane	13.96	57	465081	24.386	ng	96
64) Tetrachloroethene	14.08	166	682844	23.143	ng	99
65) Chlorobenzene	14.94	112	1510738	23.616	ng	100
66) Ethylbenzene	15.45	91	2621616	22.658	ng	99
67) m- & p-Xylenes	15.69	91	4214387	45.257	ng	100
68) Bromoform	15.71	173	657013	25.550	ng	99
69) Styrene	16.14	104	1592526	24.872	ng	100
70) o-Xylene	16.28	91	2102720	23.614	ng	99
71) n-Nonane	16.64	43	1126844	26.152	ng	96
72) 1,1,2,2-Tetrachloroethane	16.24	83	980502	25.490	ng	100
74) Cumene	17.06	105	2557132	23.612	ng	99
75) alpha-Pinene	17.57	93	1249177	25.000	ng	99
76) n-Propylbenzene	17.74	91	3137155	24.164	ng	99
77) 3-Ethyltoluene	17.33	105	300	No Calib	#	
78) 4-Ethyltoluene	17.95	105	2567903	24.718	ng	100
79) 1,3,5-Trimethylbenzene	18.06	105	2207639	24.031	ng	100
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.33	105	300	No Calib	#	
82) 1,2,4-Trimethylbenzene	18.61	105	2196759	24.250	ng	99
83) n-Decane	17.06	58	20336	No Calib		
84) Benzyl Chloride	18.76	91	4052586	55.291	ng	99
85) 1,3-Dichlorobenzene	18.78	146	1282134	23.400	ng	100
86) 1,4-Dichlorobenzene	18.86	146	1310707	23.097	ng	99
87) sec-Butylbenzene	18.96	105	2822428	23.620	ng	99
88) 4-Isopropyltoluene (p-...	19.18	119	2491474	23.723	ng	99
89) 1,2,3-Trimethylbenzene	17.33	105	300	No Calib	#	
90) 1,2-Dichlorobenzene	19.30	146	1273013	23.475	ng	100
91) d-Limonene	19.36	68	783465	25.576	ng	98
92) 1,2-Dibromo-3-Chloropr...	19.86	157	1004425	48.914	ng	95
93) n-Undecane	18.28	58	260	No Calib	#	
94) 1,2,4-Trichlorobenzene	21.43	180	1993434	48.875	ng	100
95) Naphthalene	21.55	128	2612805	26.609	ng	100
96) n-Dodecane	19.17	58	71953	No Calib		
97) Hexachlorobutadiene	21.99	225	619378	19.585	ng	99
98) Cyclohexanone	15.66	55	2875	No Calib		
99) tert-Butylbenzene	18.60	119	1957322	23.015	ng	99
100) n-Butylbenzene	19.72	91	2333454	25.118	ng	99
101) 1,1,1,2-Tetrachloroethane	14.92	131	588164	24.391	ng	100

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

Data File : I:\MS13\DATA\2023_03\28\03282305.D
Acq On : 28 Mar 2023 5:25
Sample : LCSD R13032823 25ng
Misc : S35-01202301/S35-03162301 (4/15)

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG13B

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-044DUP

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00760

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.42

Final Pressure (psig): 4.21

Container Dilution Factor: 2.28

Compound	Sample Result		Duplicate Sample Result		Average µg/m³	% RPD	RPD Limit	Data Qualifier
	µg/m³	ppbV	µg/m³	ppbV				
Dichlorodifluoromethane (CFC 12)	2.77	0.560	2.80	0.566	2.785	1	25	
Chloromethane	0.331	0.160	0.267	0.129	0.299	21	25	J
Vinyl Chloride	ND	ND	ND	ND	-	-	25	
Bromomethane	ND	ND	ND	ND	-	-	25	
Chloroethane	ND	ND	ND	ND	-	-	25	
Acetone	5.86	2.47	5.73	2.41	5.795	2	25	J
Trichlorofluoromethane	1.87	0.333	1.85	0.329	1.86	1	25	
1,1-Dichloroethene	ND	ND	ND	ND	-	-	25	
Methylene Chloride	0.404	0.116	0.404	0.116	0.404	0	25	J
Trichlorotrifluoroethane	0.479	0.0625	0.531	0.0693	0.505	10	25	J
Carbon Disulfide	ND	ND	ND	ND	-	-	25	
trans-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethane	ND	ND	ND	ND	-	-	25	
Methyl tert-Butyl Ether	ND	ND	ND	ND	-	-	25	
2-Butanone (MEK)	0.901	0.305	0.955	0.324	0.928	6	25	J
cis-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
Chloroform	ND	ND	ND	ND	-	-	25	
1,2-Dichloroethane	ND	ND	ND	ND	-	-	25	
1,1,1-Trichloroethane	ND	ND	ND	ND	-	-	25	
Benzene	1.07	0.336	1.06	0.333	1.065	0.9	25	
Carbon Tetrachloride	0.472	0.0751	0.451	0.0718	0.4615	5	25	
Cyclohexane	ND	ND	ND	ND	-	-	25	
1,2-Dichloropropane	ND	ND	ND	ND	-	-	25	
Bromodichloromethane	ND	ND	ND	ND	-	-	25	
Trichloroethene	0.422	0.0785	0.424	0.0789	0.423	0.5	25	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 2

Client: WSP USA Inc.

Client Sample ID: IA-BLDG13B

Client Project ID: Former Emerson Power Transmission Facility / 31405608.001

ALS Project ID: P2301250

ALS Sample ID: P2301250-044DUP

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00760

Date Collected: 3/16/23

Date Received: 3/20/23

Date Analyzed: 3/24/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.42

Final Pressure (psig): 4.21

Container Dilution Factor: 2.28

Compound	Sample Result		Duplicate Sample Result		Average µg/m³	% RPD	RPD Limit	Data Qualifier
	µg/m³	ppbV	µg/m³	ppbV				
cis-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
4-Methyl-2-pentanone	ND	ND	ND	ND	-	-	25	
trans-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
1,1,2-Trichloroethane	ND	ND	ND	ND	-	-	25	
Toluene	1.03	0.274	1.01	0.269	1.02	2	25	J
2-Hexanone	0.242	0.0590	0.219	0.0535	0.2305	10	25	J
Dibromochloromethane	ND	ND	ND	ND	-	-	25	
1,2-Dibromoethane	ND	ND	ND	ND	-	-	25	
Tetrachloroethene	0.226	0.0333	0.212	0.0313	0.219	6	25	J
Chlorobenzene	ND	ND	ND	ND	-	-	25	
Ethylbenzene	0.205	0.0473	0.205	0.0473	0.205	0	25	J
m,p-Xylenes	0.611	0.141	0.586	0.135	0.5985	4	25	J
Bromoform	ND	ND	ND	ND	-	-	25	
Styrene	ND	ND	ND	ND	-	-	25	
o-Xylene	0.235	0.0541	0.233	0.0536	0.234	0.9	25	J
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	-	-	25	
Cumene	ND	ND	ND	ND	-	-	25	
1,3-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,4-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,2-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	-	-	25	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	-	-	25	
Methyl Acetate	ND	ND	ND	ND	-	-	25	X
Methylcyclohexane	ND	ND	ND	ND	-	-	25	X

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

X = See case narrative.

Data File : I:\MS16\DATA\2023_03\24\03242321.D
 Acq On : 24 Mar 2023 17:59
 Sample : P2301250-044dup (1000mL)
 Misc : S35-01312301

Vial: 6
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 26 20:41:31 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:TO15B.M

3/26/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	204128	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	939486	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.72	54	210797	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	369245	13.602	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	108.80%	
57) Toluene-d8 (SS2)	15.86	98	1084397	11.750	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	94.00%	
73) Bromofluorobenzene (SS3)	19.10	174	330243	11.473	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	91.76%	

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	4.34	85	37458	1.228	ng	99
4) Chloromethane	4.64	50	3339	0.117	ng	90
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	896	0.053	ng	# 64
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.34	54	399	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.48	45	21065	1.072	ng	87
11) Acetonitrile	6.73	41	2532	0.051	ng	94
12) Acrolein	6.94	56	1068	0.077	ng	97
13) Acetone	7.16	58	37777	2.514	ng	# 64
14) Trichlorofluoromethane	7.37	101	22808	0.810	ng	99
15) 2-Propanol (Isopropanol)	7.69	45	7396	0.141	ng	99
16) Acrylonitrile	7.90	53	59	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	8.61	59	769	N.D.		
19) Methylene Chloride	8.56	84	2939	0.177	ng	95
20) 3-Chloro-1-propene (Al...	8.65	41	1234	N.D.		
21) Trichlorotrifluoroethane	8.99	151	3267	0.233	ng	97
22) Carbon Disulfide	8.84	76	1569	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	10.10	63	284	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	10.62	72	4566	0.419	ng	100
28) cis-1,2-Dichloroethene	11.11	61	633	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	11.42	61	27977	3.927	ng	97
31) n-Hexane	11.40	57	15400	0.432	ng	98
32) Chloroform	11.45	83	1630	0.060	ng	98
34) Tetrahydrofuran (THF)	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	12.26	62	799	N.D.		
38) 1,1,1-Trichloroethane	12.54	97	1408	0.055	ng	99
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	13.02	78	30928	0.467	ng	100
42) Carbon Tetrachloride	13.18	117	4259	0.198	ng	97
43) Cyclohexane	13.31	84	1107	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	14.11	130	3339	0.186	ng	96
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	14.18	57	12390	0.139	ng	75
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS16\DATA\2023_03\24\03242321.D
 Acq On : 24 Mar 2023 17:59
 Sample : P2301250-044dup (1000mL)
 Misc : S35-01312301

Vial: 6
 Operator: WA
 Inst : GCMS-16

Quant Time: Mar 26 20:41:31 2023

Quant Method : I:\MS16\METHODS\R16122022.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Wed Dec 21 03:06:38 2022

Response via : Initial Calibration

DataAcq Meth:T015B.M

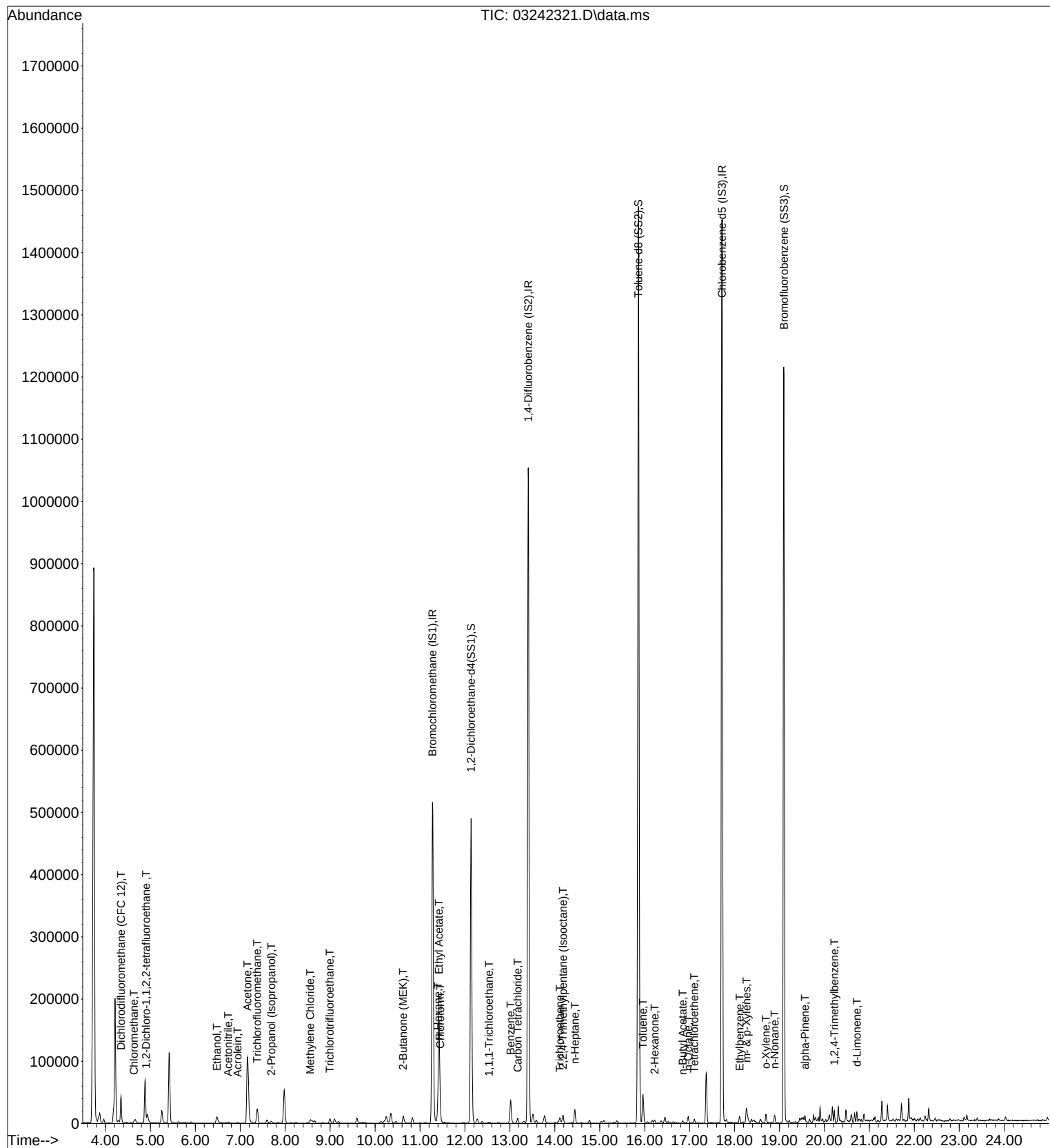
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.45	71	5412	0.279	ng	93
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	15.03	58	710	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.96	91	35903	0.444	ng	97
59) 2-Hexanone	16.22	43	4082	0.096	ng	79
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.84	43	3116	0.064	ng	96
63) n-Octane	16.97	57	1885	0.091	ng	99
64) Tetrachloroethene	17.10	166	1914	0.093	ng	99
65) Chlorobenzene	17.77	112	167	N.D.		
66) Ethylbenzene	18.11	91	8179	0.090	ng	96
67) m- & p-Xylenes	18.27	91	18521	0.257	ng	98
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.60	104	1055	N.D.		
70) o-Xylene	18.70	91	7220	0.102	ng	99
71) n-Nonane	18.89	43	5739	0.113	ng	85
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	19.22	105	1175	N.D.		
75) alpha-Pinene	19.57	93	4277	0.186	ng	94
76) n-Propylbenzene	19.66	91	2456	N.D.		
77) 3-Ethyltoluene	20.22	105	7737	No Calib	#	
78) 4-Ethyltoluene	19.79	105	2405	N.D.		
79) 1,3,5-Trimethylbenzene	19.86	105	2532	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.22	105	7737	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.22	105	7737	0.106	ng	86
83) n-Decane	20.31	58	304	No Calib	#	
84) Benzyl Chloride	20.42	91	171	N.D.		
85) 1,3-Dichlorobenzene	20.41	146	130	N.D.		
86) 1,4-Dichlorobenzene	20.41	146	130	N.D.		
87) sec-Butylbenzene	20.45	105	551	N.D.		
88) 4-Isopropyltoluene (p-...	20.59	119	3559	N.D.		
89) 1,2,3-Trimethylbenzene	20.22	105	7737	No Calib	#	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	20.72	68	3494	0.168	ng	98
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	21.28	58	317	No Calib	#	
94) 1,2,4-Trichlorobenzene	22.23	180	105	N.D.		
95) Naphthalene	22.33	128	3658	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	18.19	55	432	No Calib	#	
99) tert-Butylbenzene	20.22	119	982	N.D.		
100) n-Butylbenzene	20.96	91	1215	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS16\DATA\2023_03\24\03242321.D
Acq On : 24 Mar 2023 17:59
Sample : P2301250-044dup (1000mL)
Misc : S35-01312301

Vial: 6
Operator: WA
Inst : GCMS-16

Quant Time: Mar 26 20:41:31 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:TO15B.M



Data File : I:\MS16\DATA\2023_03\24\03242321.D
 Acq On : 24 Mar 2023 17:59
 Sample : P2301250-044dup (1000mL)
 Misc : S35-01312301

Vial: 6
 Operator: WA
 Inst : GCMS-16

3/26/23

Quant Time: Mar 26 20:41:31 2023
 Quant Method : I:\MS16\METHODS\R16122022.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Wed Dec 21 03:06:38 2022
 Response via : Initial Calibration
 DataAcq Meth:T015B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.28	130	204128	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.41	114	939486	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.72	54	210797	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.14	65	369245	13.602	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	108.80%	
57) Toluene-d8 (SS2)	15.86	98	1084397	11.750	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	94.00%	
73) Bromofluorobenzene (SS3)	19.10	174	330243	11.473	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	91.76%	

Target Compounds

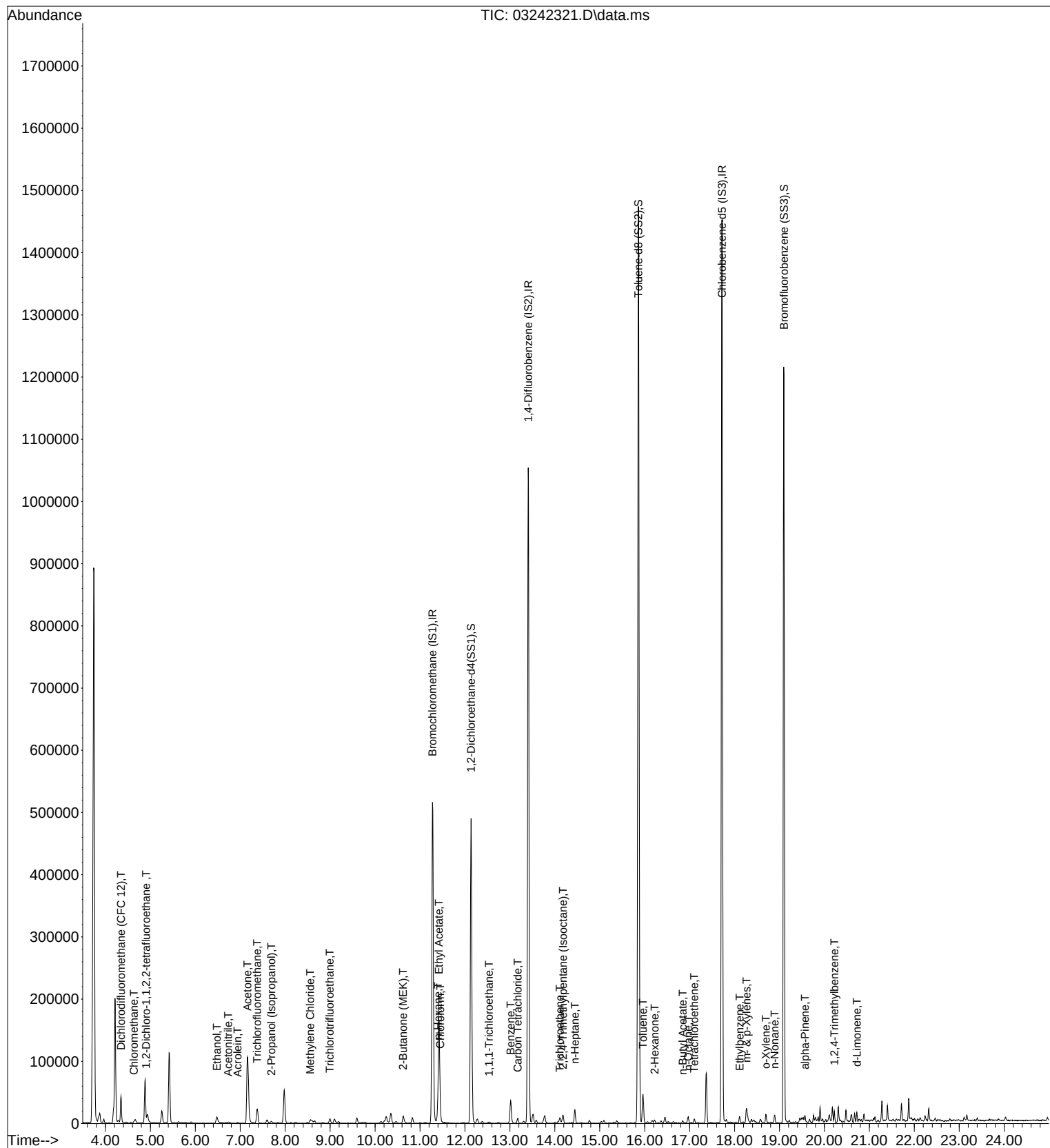
						Qvalue
3) Dichlorodifluoromethan...	4.34	85	37458	1.228	ng	99
4) Chloromethane	4.64	50	3339	0.117	ng	90
5) 1,2-Dichloro-1,1,2,2-t...	4.91	135	896	0.053	ng	# 64
10) Ethanol	6.48	45	21065	1.072	ng	87
11) Acetonitrile	6.73	41	2532	0.051	ng	94
12) Acrolein	6.94	56	1068	0.077	ng	97
13) Acetone	7.16	58	37777	2.514	ng	# 64
14) Trichlorofluoromethane	7.37	101	22808	0.810	ng	99
15) 2-Propanol (Isopropanol)	7.69	45	7396	0.141	ng	99
19) Methylene Chloride	8.56	84	2939	0.177	ng	95
21) Trichlorotrifluoroethane	8.99	151	3267	0.233	ng	97
27) 2-Butanone (MEK)	10.62	72	4566	0.419	ng	100
30) Ethyl Acetate	11.42	61	27977	3.927	ng	97
31) n-Hexane	11.40	57	15400	0.432	ng	98
32) Chloroform	11.45	83	1630	0.060	ng	98
38) 1,1,1-Trichloroethane	12.54	97	1408	0.055	ng	99
41) Benzene	13.02	78	30928	0.467	ng	100
42) Carbon Tetrachloride	13.18	117	4259	0.198	ng	97
47) Trichloroethene	14.11	130	3339	0.186	ng	96
49) 2,2,4-Trimethylpentane...	14.18	57	12390	0.139	ng	75
51) n-Heptane	14.45	71	5412	0.279	ng	93
58) Toluene	15.96	91	35903	0.444	ng	97
59) 2-Hexanone	16.22	43	4082	0.096	ng	79
62) n-Butyl Acetate	16.84	43	3116	0.064	ng	96
63) n-Octane	16.97	57	1885	0.091	ng	99
64) Tetrachloroethene	17.10	166	1914	0.093	ng	99
66) Ethylbenzene	18.11	91	8179	0.090	ng	96
67) m- & p-Xylenes	18.27	91	18521	0.257	ng	98
70) o-Xylene	18.70	91	7220	0.102	ng	99
71) n-Nonane	18.89	43	5739	0.113	ng	85
75) alpha-Pinene	19.57	93	4277	0.186	ng	94
82) 1,2,4-Trimethylbenzene	20.22	105	7737	0.106	ng	86
91) d-Limonene	20.72	68	3494	0.168	ng	98

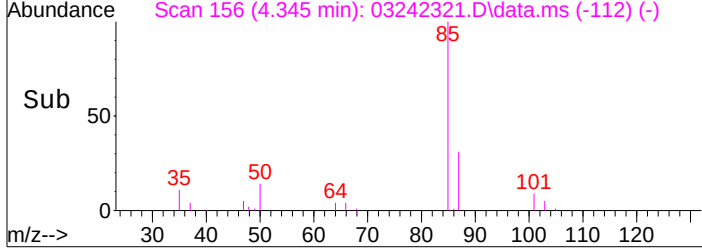
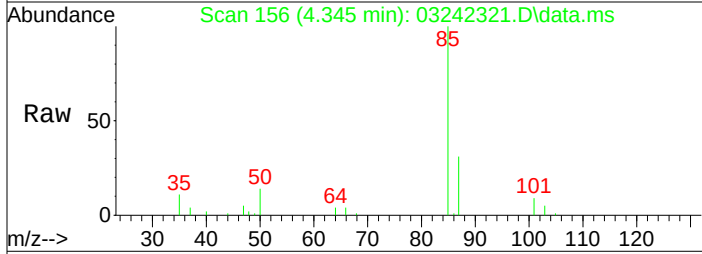
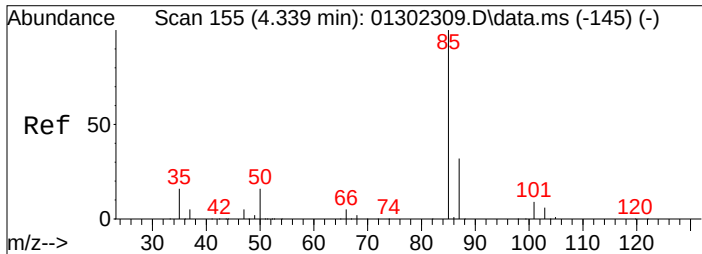
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS16\DATA\2023_03\24\03242321.D
Acq On : 24 Mar 2023 17:59
Sample : P2301250-044dup (1000mL)
Misc : S35-01312301

Vial: 6
Operator: WA
Inst : GCMS-16

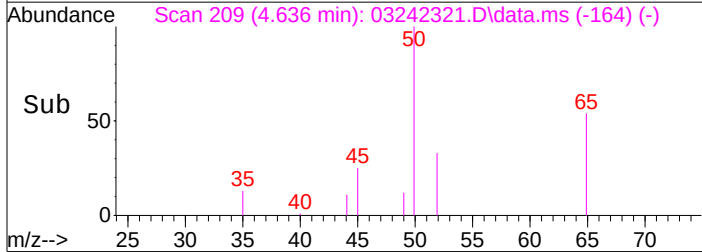
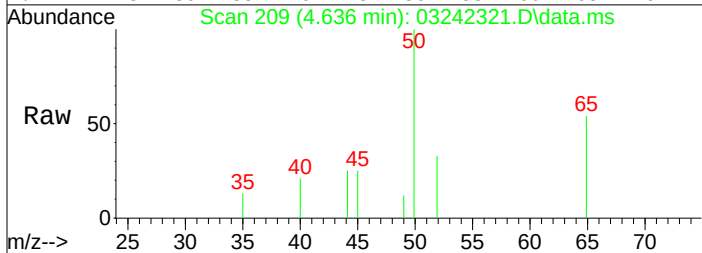
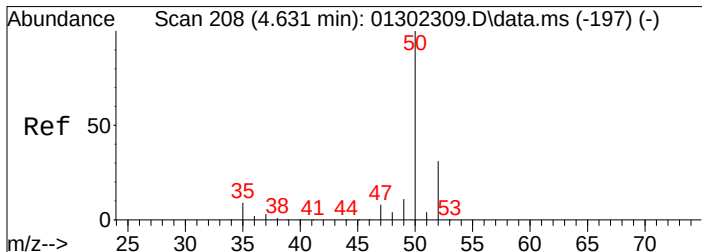
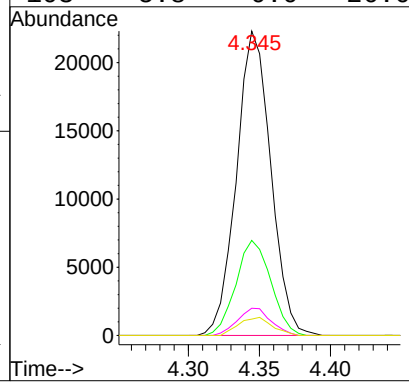
Quant Time: Mar 26 20:41:31 2023
Quant Method : I:\MS16\METHODS\R16122022.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Dec 21 03:06:38 2022
Response via : Initial Calibration
DataAcq Meth:TO15B.M





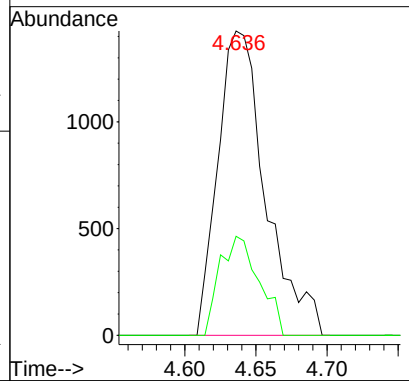
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.23 ng
 RT: 4.34 min Scan# 156
 Delta R.T. -0.005 min
 Lab File: 03242321.D
 Acq: 24 Mar 2023 17:59

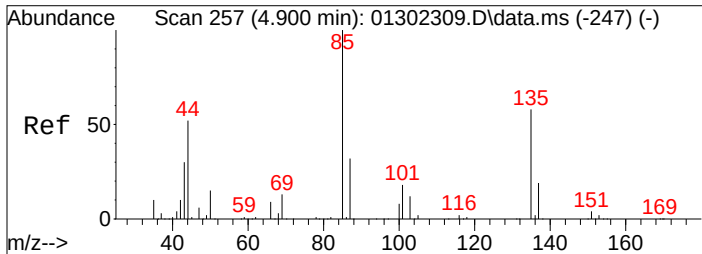
Tgt Ion:	85	Resp:	37458
Ion Ratio		Lower	Upper
85	100		
87	31.8	12.1	52.1
101	8.8	0.0	29.3
103	5.8	0.0	26.0



#4
 Chloromethane
 Concen: 0.12 ng
 RT: 4.64 min Scan# 209
 Delta R.T. 0.000 min
 Lab File: 03242321.D
 Acq: 24 Mar 2023 17:59

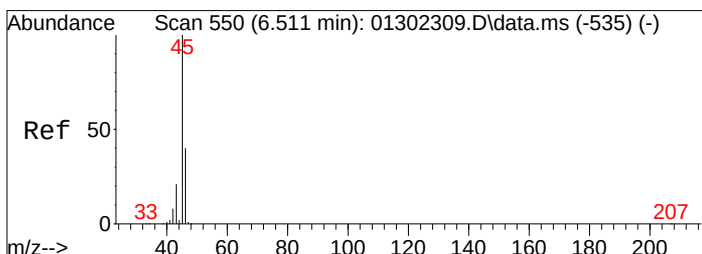
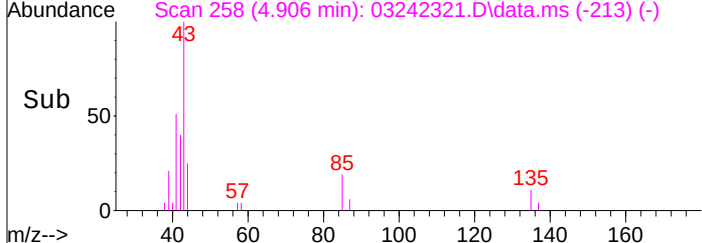
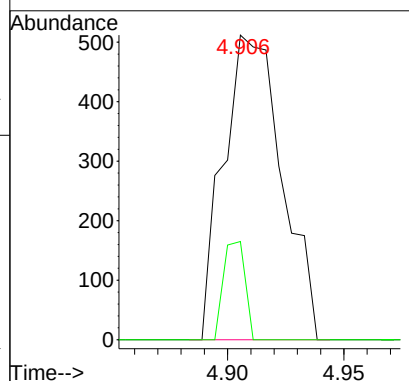
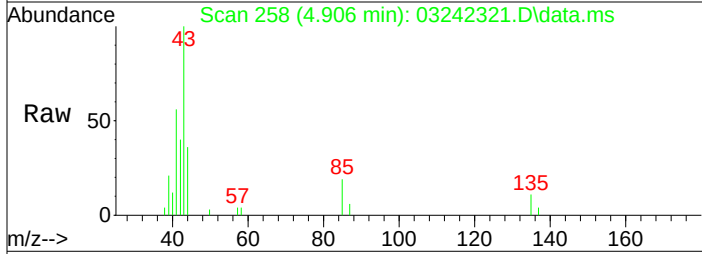
Tgt Ion:	50	Resp:	3339
Ion Ratio		Lower	Upper
50	100		
52	26.8	12.2	52.2





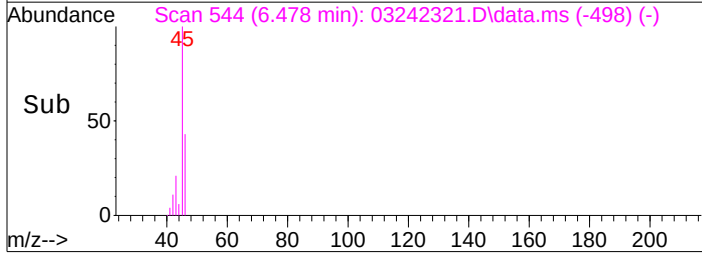
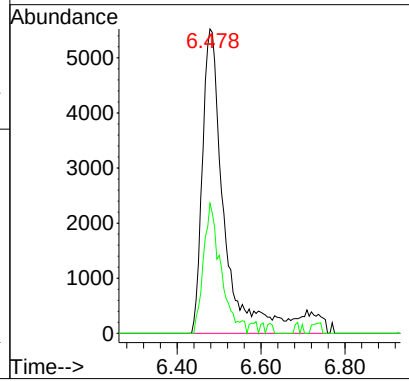
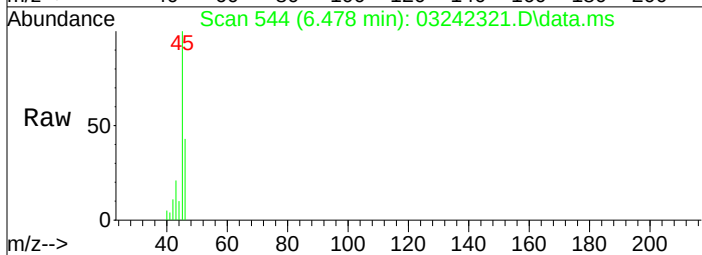
#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.05 ng
 RT: 4.91 min Scan# 258
 Delta R.T. 0.000 min
 Lab File: 03242321.D
 Acq: 24 Mar 2023 17:59

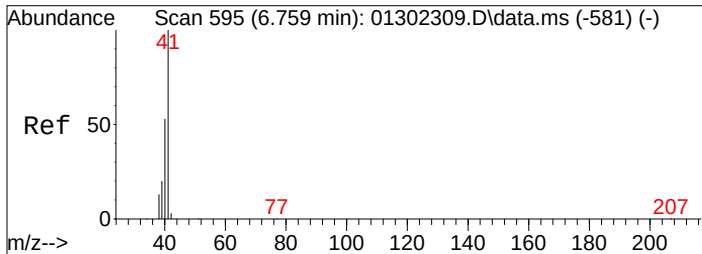
Tgt Ion: 135	Resp:	896
Ion Ratio	Lower	Upper
135	100	
137	11.9	12.0 52.0#



#10
 Ethanol
 Concen: 1.07 ng
 RT: 6.48 min Scan# 544
 Delta R.T. 0.000 min
 Lab File: 03242321.D
 Acq: 24 Mar 2023 17:59

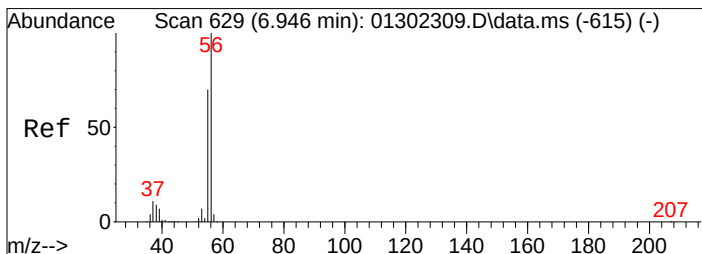
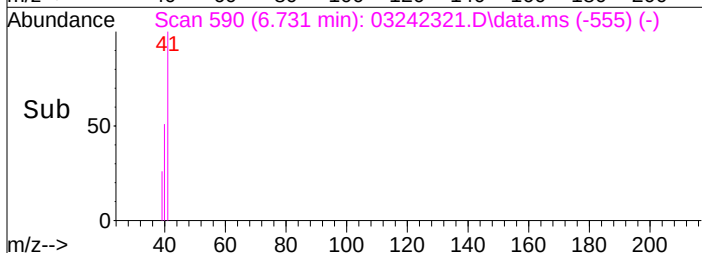
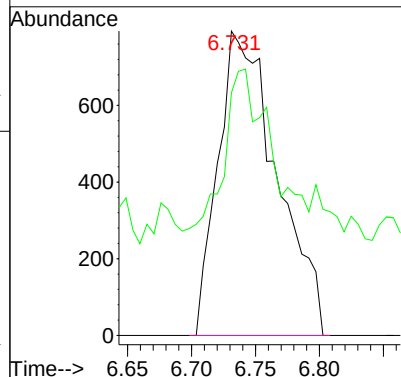
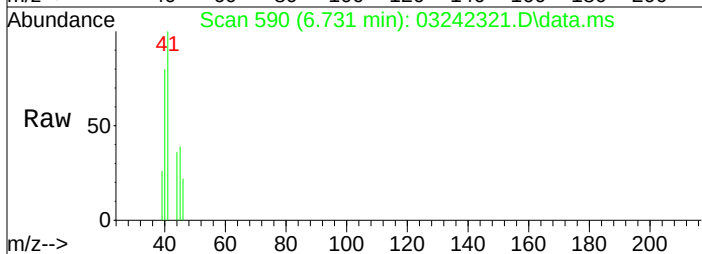
Tgt Ion: 45	Resp:	21065
Ion Ratio	Lower	Upper
45	100	
46	32.5	20.5 60.5





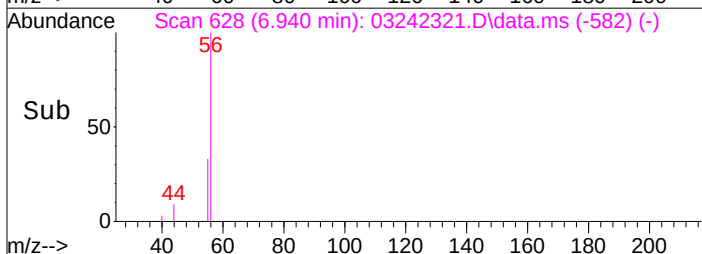
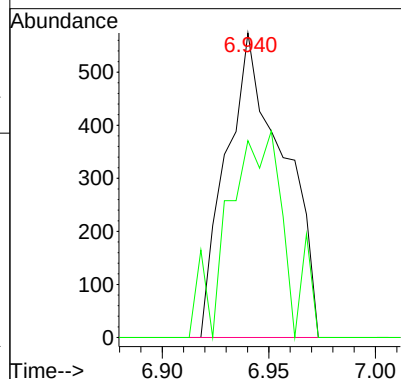
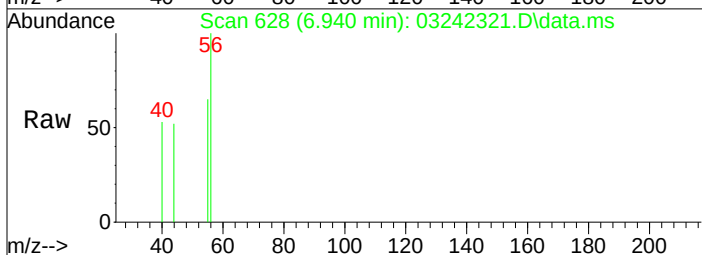
#11
Acetonitrile
Concen: 0.05 ng
RT: 6.73 min Scan# 590
Delta R.T. -0.006 min
Lab File: 03242321.D
Acq: 24 Mar 2023 17:59

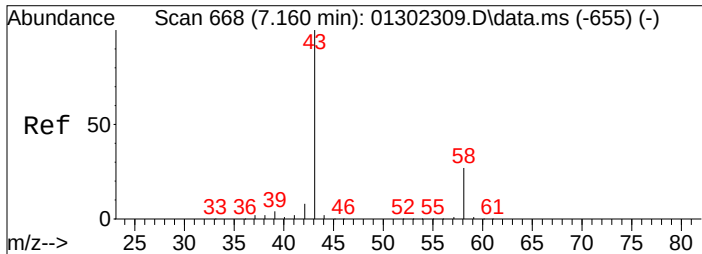
Tgt Ion: 41 Resp: 2532
Ion Ratio Lower Upper
41 100
40 47.9 32.4 72.4



#12
Acrolein
Concen: 0.08 ng
RT: 6.94 min Scan# 628
Delta R.T. 0.005 min
Lab File: 03242321.D
Acq: 24 Mar 2023 17:59

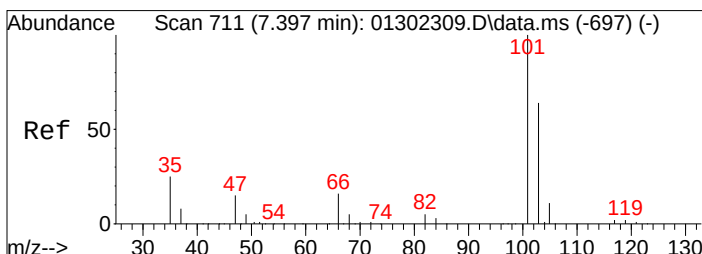
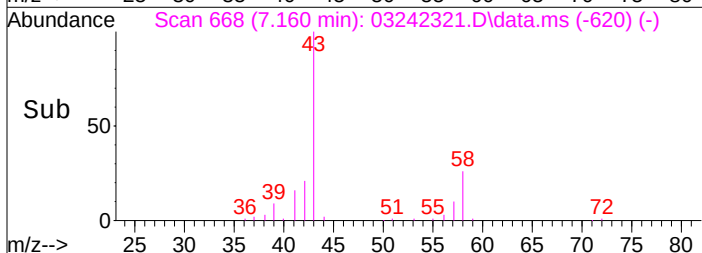
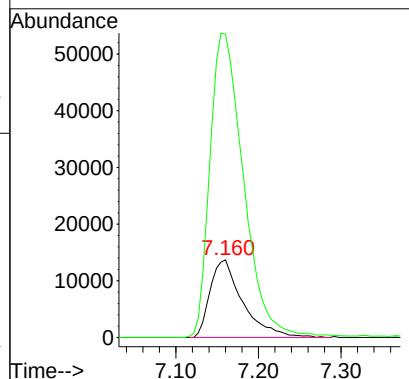
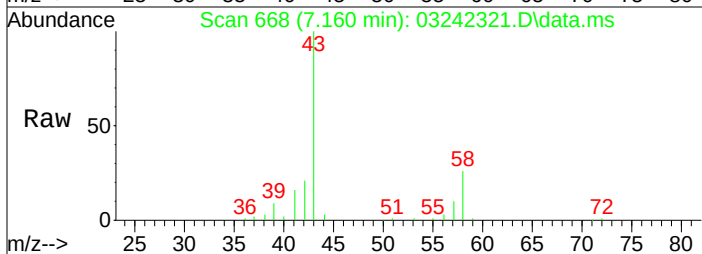
Tgt Ion: 56 Resp: 1068
Ion Ratio Lower Upper
56 100
55 67.4 49.9 89.9





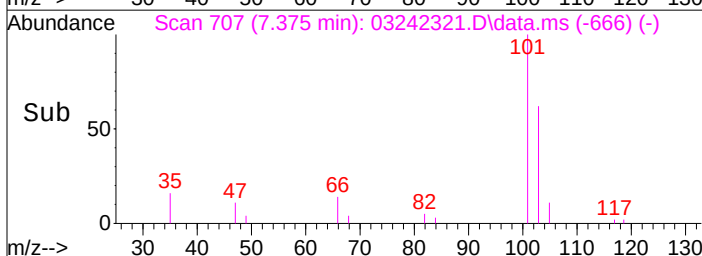
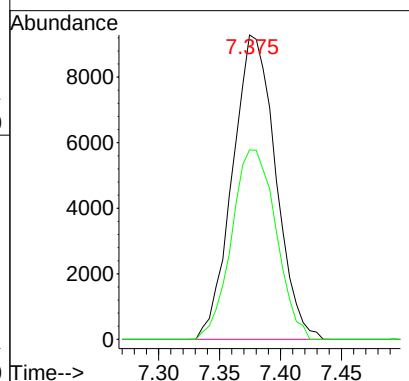
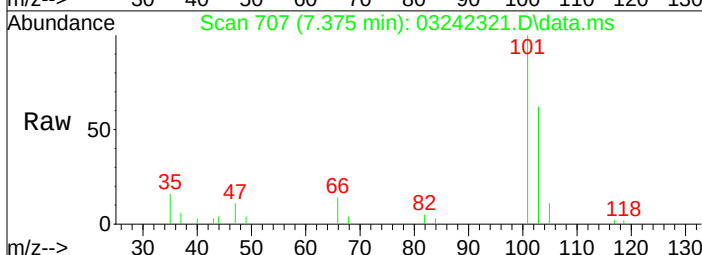
#13
Acetone
Concen: 2.51 ng
RT: 7.16 min Scan# 668
Delta R.T. 0.016 min
Lab File: 03242321.D
Acq: 24 Mar 2023 17:59

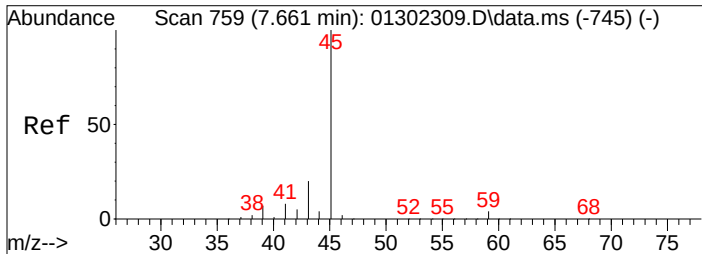
Tgt Ion	Ratio	Lower	Upper
58	100		
43	403.7	298.5	358.5#



#14
Trichlorofluoromethane
Concen: 0.81 ng
RT: 7.37 min Scan# 707
Delta R.T. -0.022 min
Lab File: 03242321.D
Acq: 24 Mar 2023 17:59

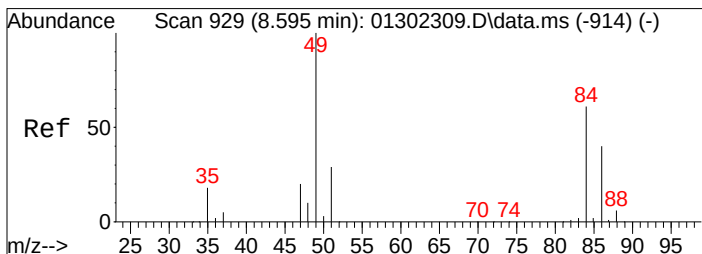
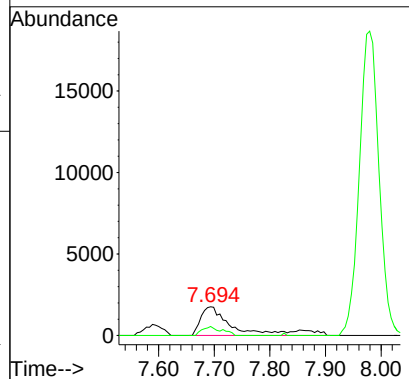
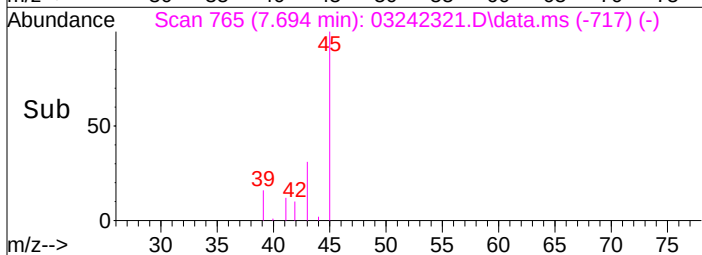
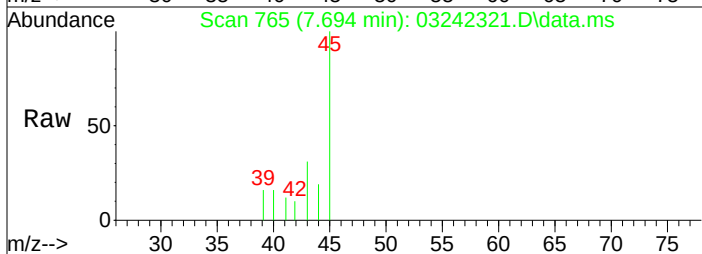
Tgt Ion	Ratio	Lower	Upper
101	100		
103	63.9	44.8	84.8





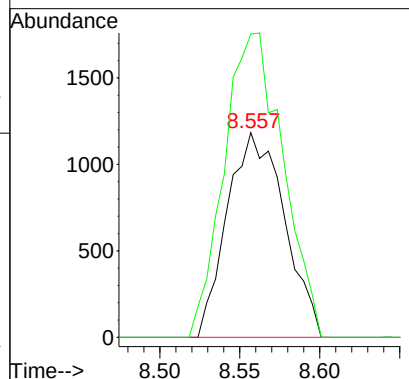
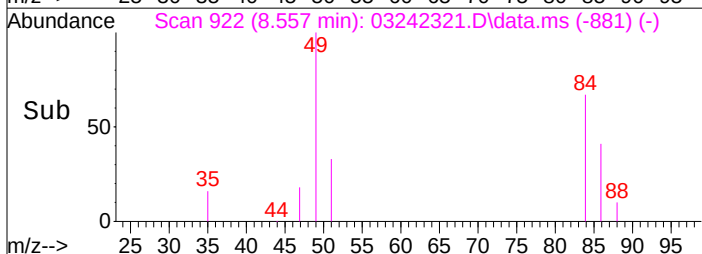
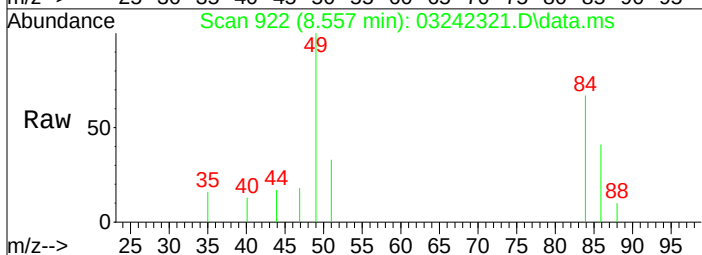
#15
 2-Propanol (Isopropanol)
 Concen: 0.14 ng
 RT: 7.69 min Scan# 765
 Delta R.T. 0.014 min
 Lab File: 03242321.D
 Acq: 24 Mar 2023 17:59

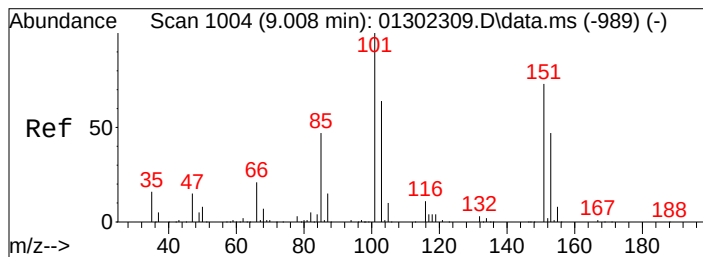
Tgt Ion: 45 Resp: 7396
 Ion Ratio Lower Upper
 45 100
 43 18.1 0.0 37.9



#19
 Methylene Chloride
 Concen: 0.18 ng
 RT: 8.56 min Scan# 922
 Delta R.T. -0.022 min
 Lab File: 03242321.D
 Acq: 24 Mar 2023 17:59

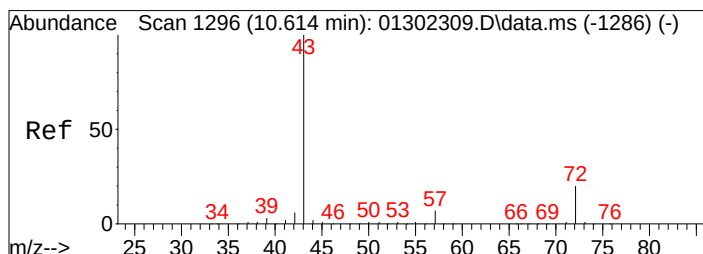
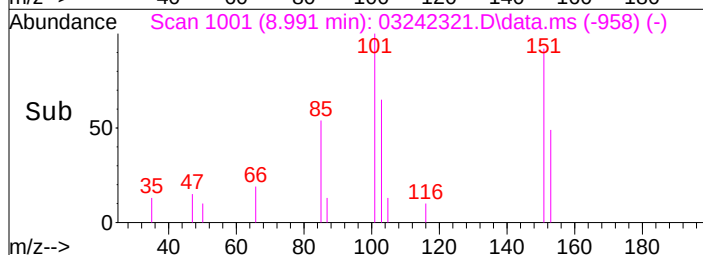
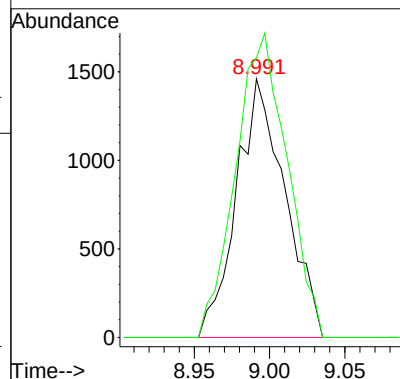
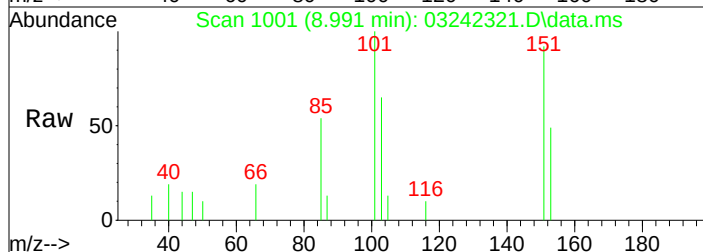
Tgt Ion: 84 Resp: 2939
 Ion Ratio Lower Upper
 84 100
 49 153.2 135.0 185.0





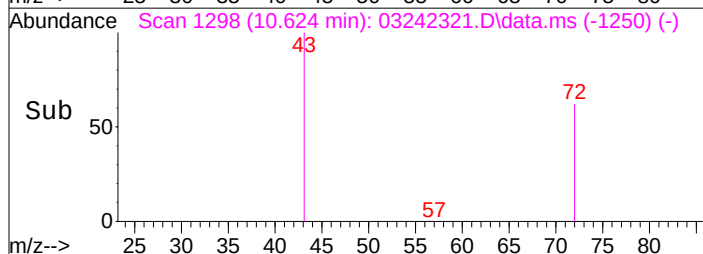
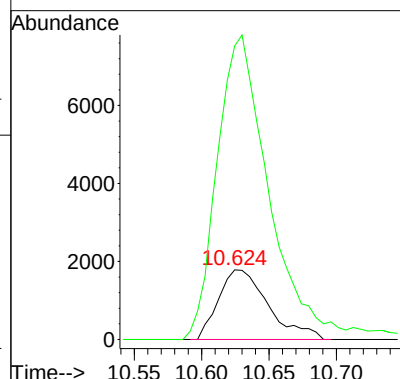
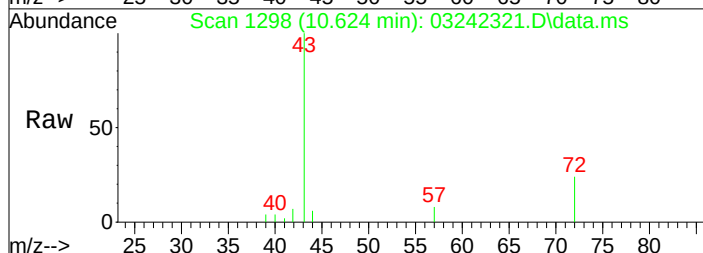
#21
Trichlorotrifluoroethane
Concen: 0.23 ng
RT: 8.99 min Scan# 1001
Delta R.T. -0.011 min
Lab File: 03242321.D
Acq: 24 Mar 2023 17:59

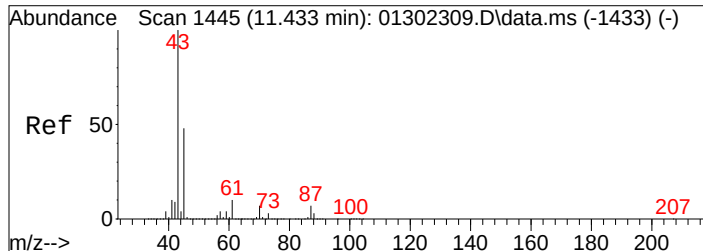
Tgt Ion: 151 Resp: 3267
Ion Ratio Lower Upper
151 100
101 125.2 101.5 141.5



#27
2-Butanone (MEK)
Concen: 0.42 ng
RT: 10.62 min Scan# 1298
Delta R.T. 0.017 min
Lab File: 03242321.D
Acq: 24 Mar 2023 17:59

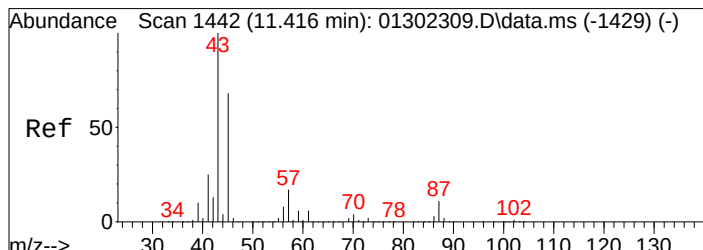
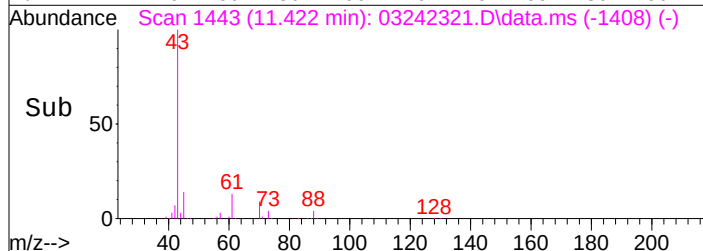
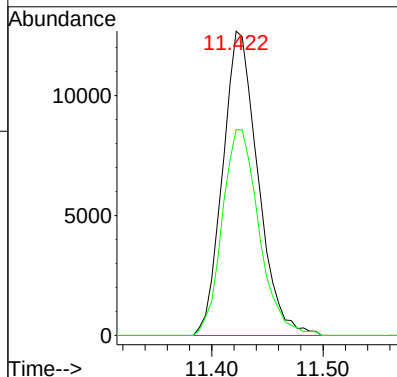
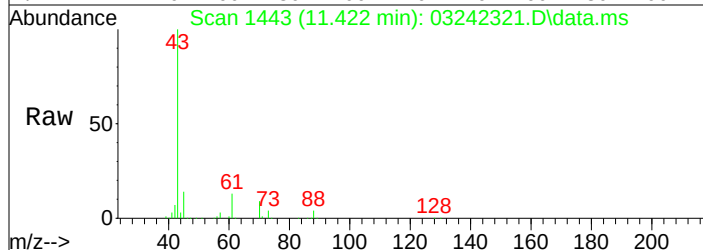
Tgt Ion: 72 Resp: 4566
Ion Ratio Lower Upper
72 100
43 468.4 449.4 489.4





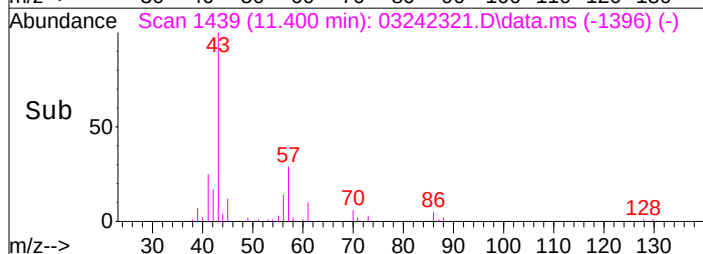
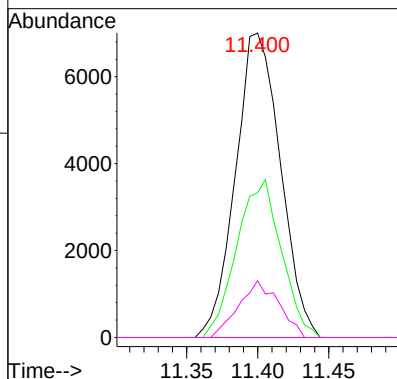
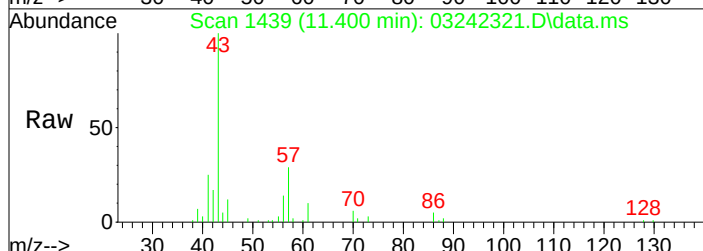
#30
Ethyl Acetate
Concen: 3.93 ng
RT: 11.42 min Scan# 1443
Delta R.T. -0.005 min
Lab File: 03242321.D
Acq: 24 Mar 2023 17:59

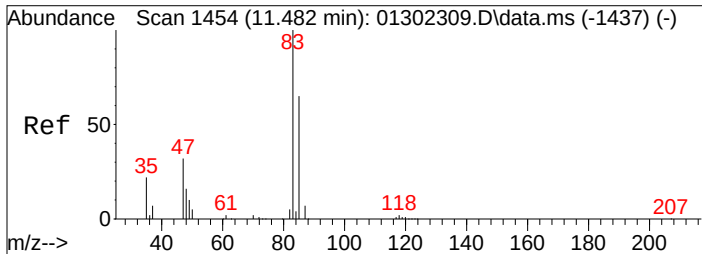
Tgt Ion: 61 Resp: 27977
Ion Ratio Lower Upper
61 100
70 70.5 52.8 92.8



#31
n-Hexane
Concen: 0.43 ng
RT: 11.40 min Scan# 1439
Delta R.T. -0.011 min
Lab File: 03242321.D
Acq: 24 Mar 2023 17:59

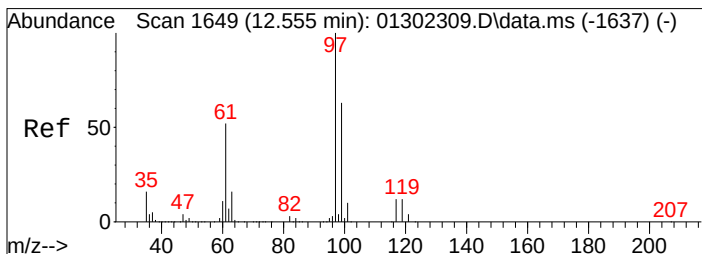
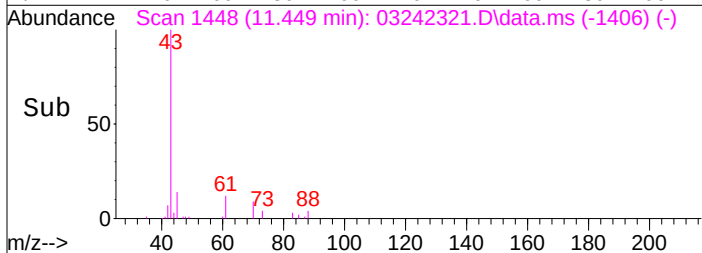
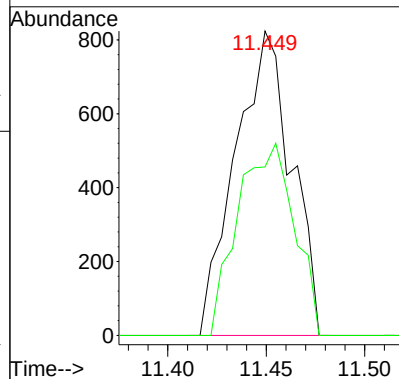
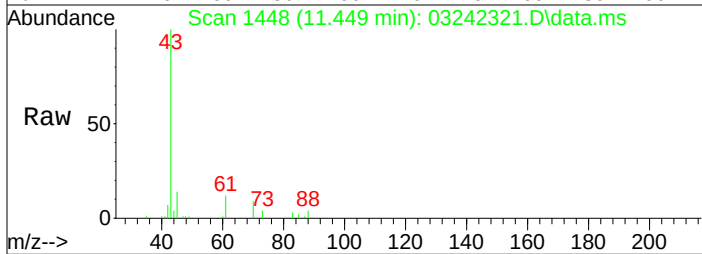
Tgt Ion: 57 Resp: 15400
Ion Ratio Lower Upper
57 100
56 51.2 39.9 59.9
86 16.6 12.3 18.5





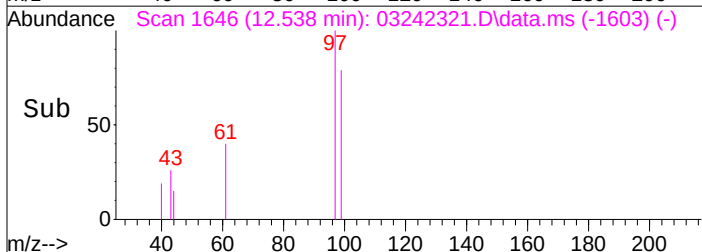
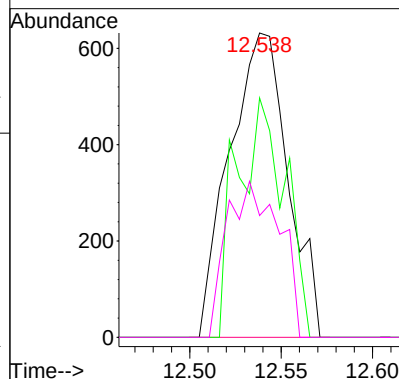
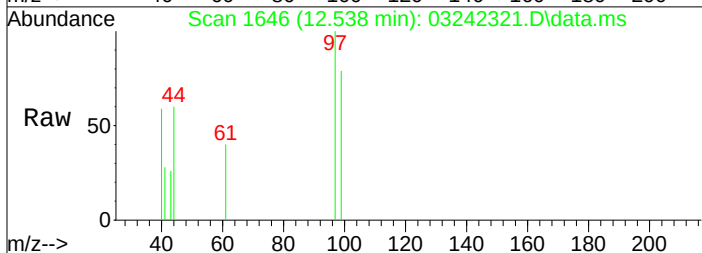
#32
Chloroform
Concen: 0.06 ng
RT: 11.45 min Scan# 1448
Delta R.T. -0.016 min
Lab File: 03242321.D
Acq: 24 Mar 2023 17:59

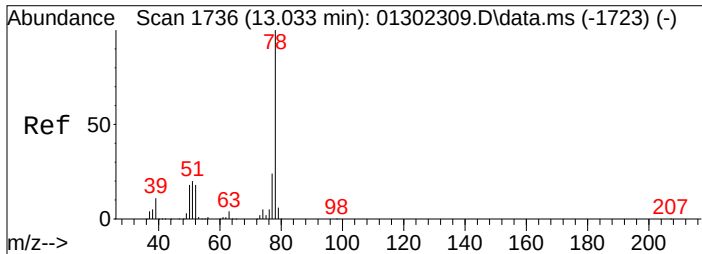
Tgt Ion: 83 Resp: 1630
Ion Ratio Lower Upper
83 100
85 63.7 45.5 85.5



#38
1,1,1-Trichloroethane
Concen: 0.06 ng
RT: 12.54 min Scan# 1646
Delta R.T. -0.011 min
Lab File: 03242321.D
Acq: 24 Mar 2023 17:59

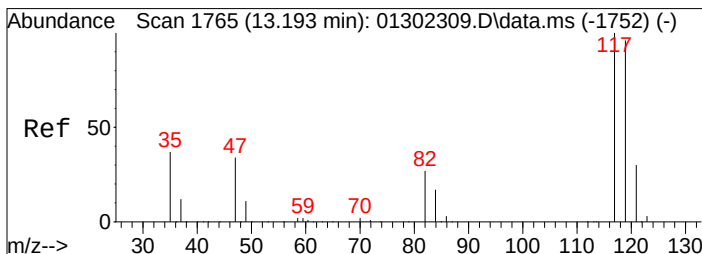
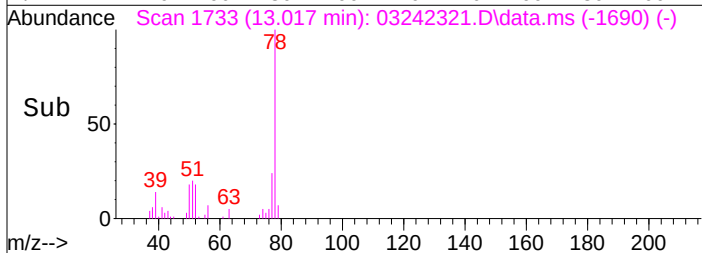
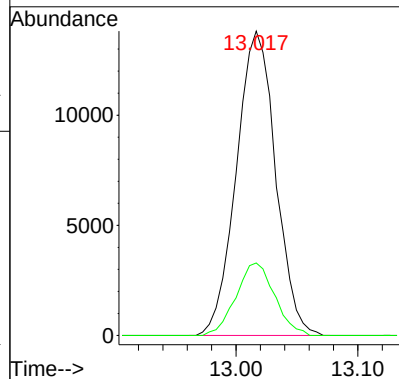
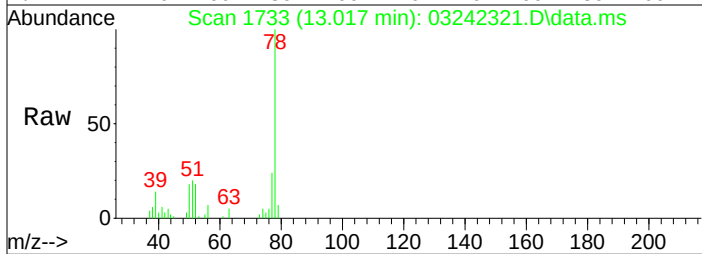
Tgt Ion: 97 Resp: 1408
Ion Ratio Lower Upper
97 100
99 64.8 44.0 84.0
61 46.3 26.8 66.8





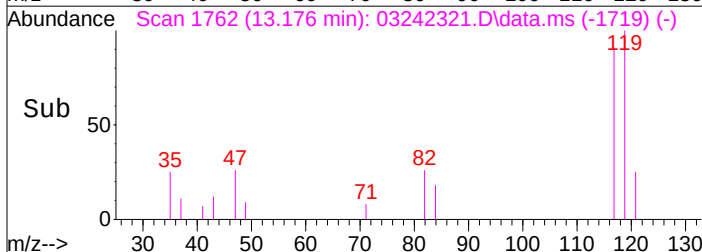
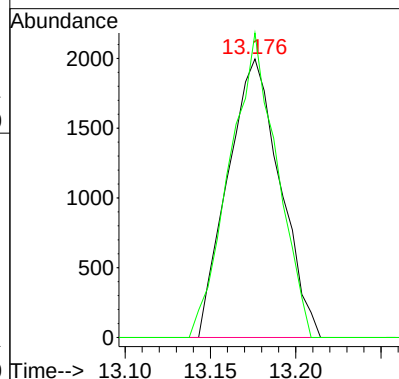
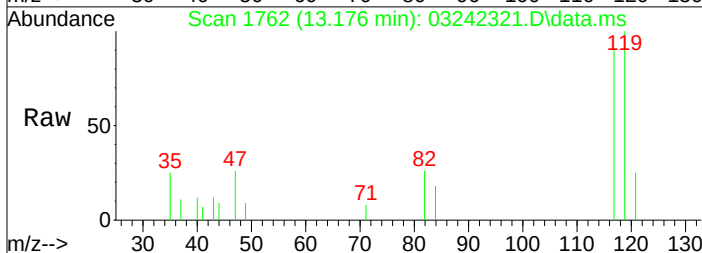
#41
Benzene
Concen: 0.47 ng
RT: 13.02 min Scan# 1733
Delta R.T. -0.011 min
Lab File: 03242321.D
Acq: 24 Mar 2023 17:59

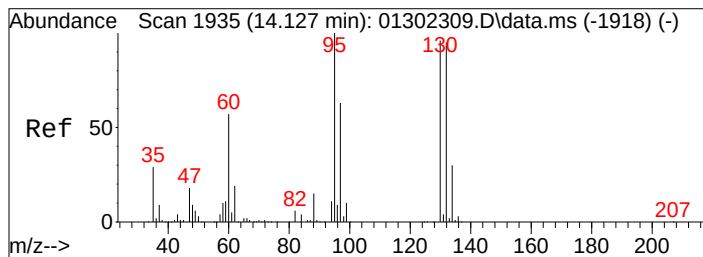
Tgt Ion: 78 Resp: 30928
Ion Ratio Lower Upper
78 100
77 23.4 3.3 43.3



#42
Carbon Tetrachloride
Concen: 0.20 ng
RT: 13.18 min Scan# 1762
Delta R.T. -0.011 min
Lab File: 03242321.D
Acq: 24 Mar 2023 17:59

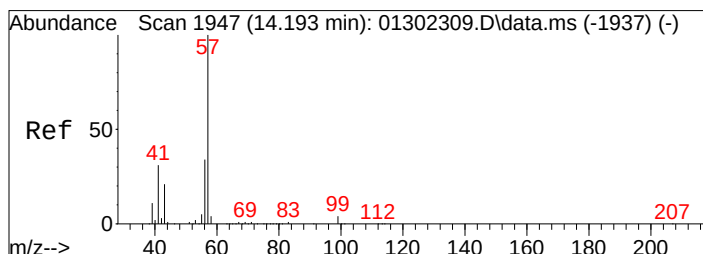
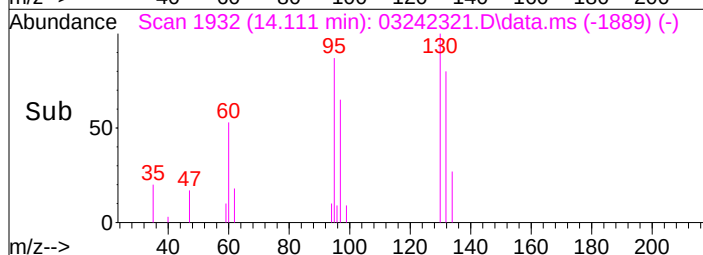
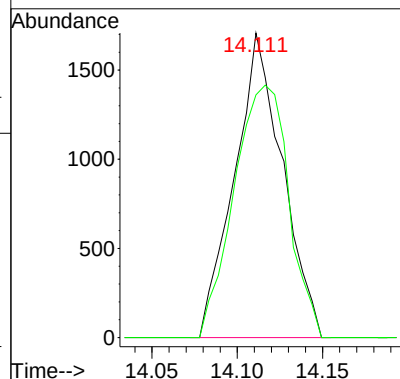
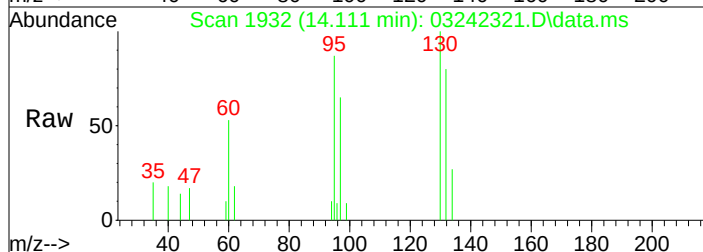
Tgt Ion: 117 Resp: 4259
Ion Ratio Lower Upper
117 100
119 99.6 76.2 116.2





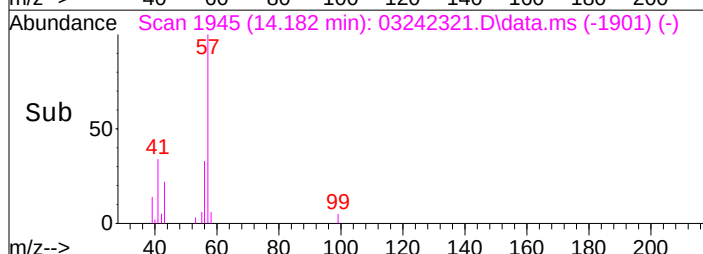
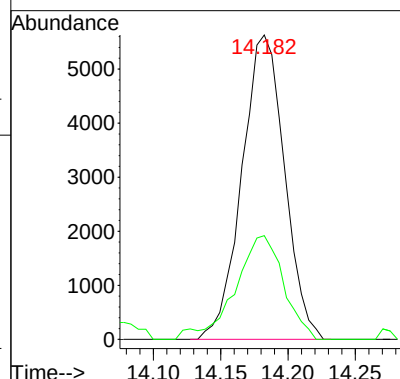
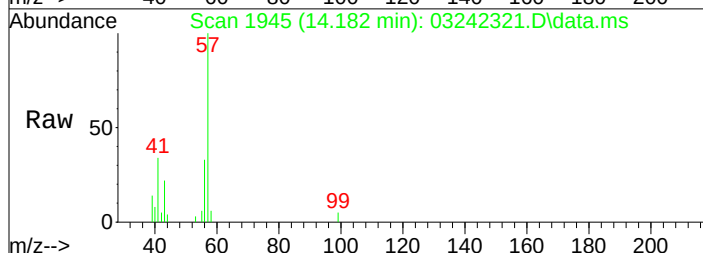
#47
Trichloroethene
Concen: 0.19 ng
RT: 14.11 min Scan# 1932
Delta R.T. -0.011 min
Lab File: 03242321.D
Acq: 24 Mar 2023 17:59

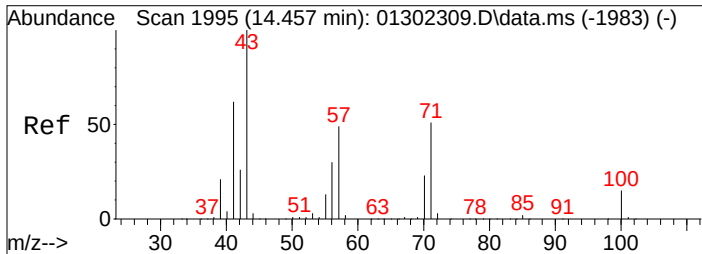
Tgt Ion:130 Resp: 3339
Ion Ratio Lower Upper
130 100
132 94.6 78.7 118.7



#49
2,2,4-Trimethylpentane (Isooctane)
Concen: 0.14 ng
RT: 14.18 min Scan# 1945
Delta R.T. -0.005 min
Lab File: 03242321.D
Acq: 24 Mar 2023 17:59

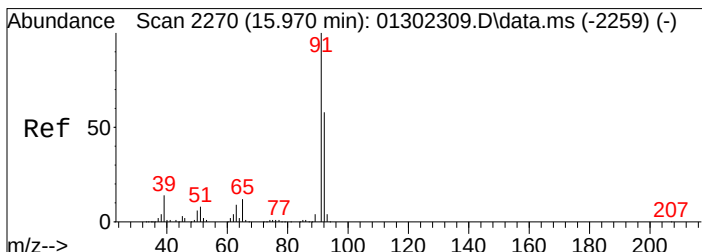
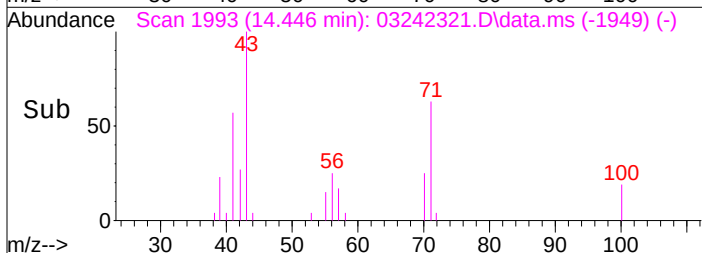
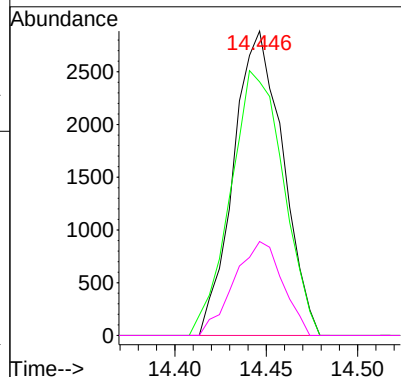
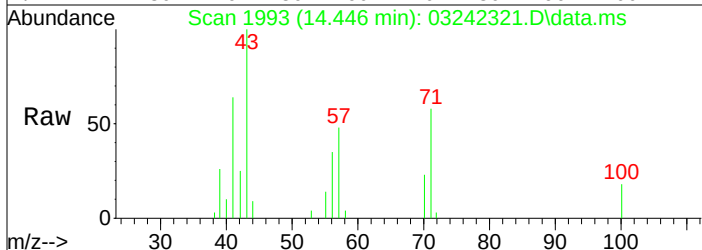
Tgt Ion: 57 Resp: 12390
Ion Ratio Lower Upper
57 100
41 38.7 5.8 45.8





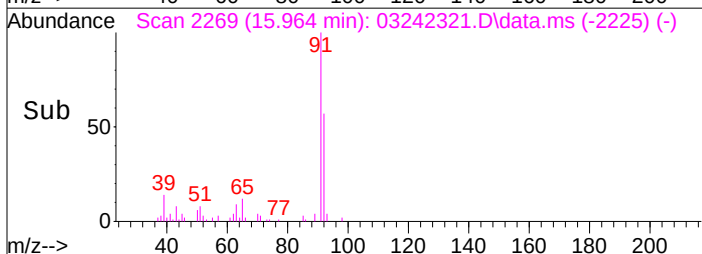
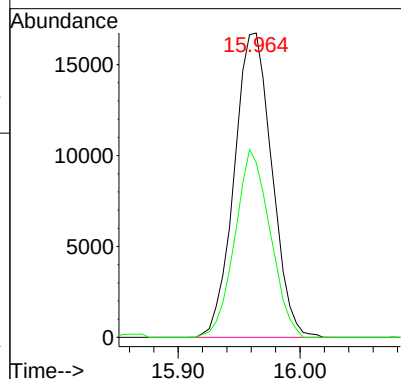
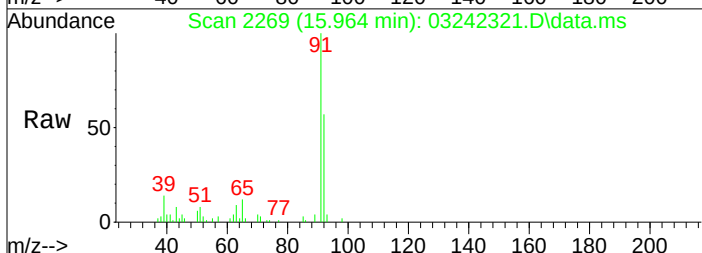
#51
n-Heptane
Concen: 0.28 ng
RT: 14.45 min Scan# 1993
Delta R.T. -0.005 min
Lab File: 03242321.D
Acq: 24 Mar 2023 17:59

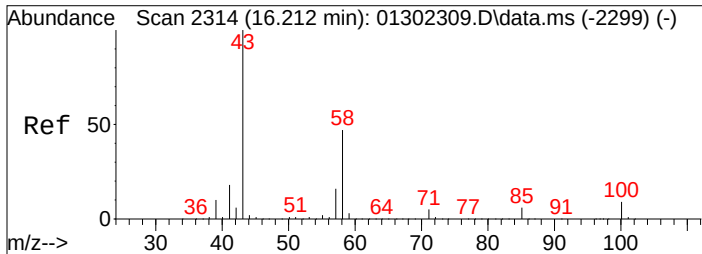
Tgt Ion:	71	Resp:	5412
Ion Ratio	Lower	Upper	
71	100		
57	93.2	81.4	121.4
100	30.4	11.8	51.8



#58
Toluene
Concen: 0.44 ng
RT: 15.96 min Scan# 2269
Delta R.T. -0.005 min
Lab File: 03242321.D
Acq: 24 Mar 2023 17:59

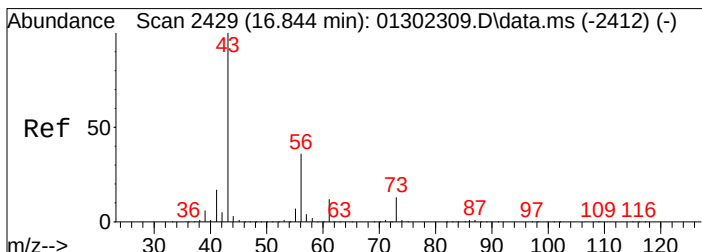
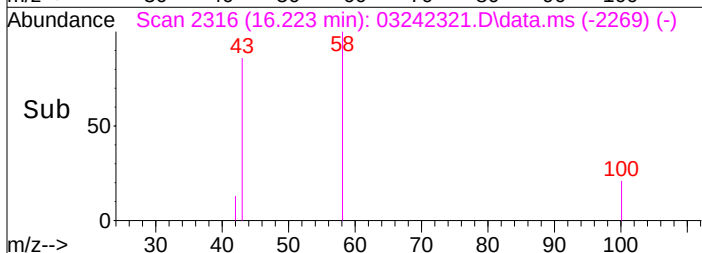
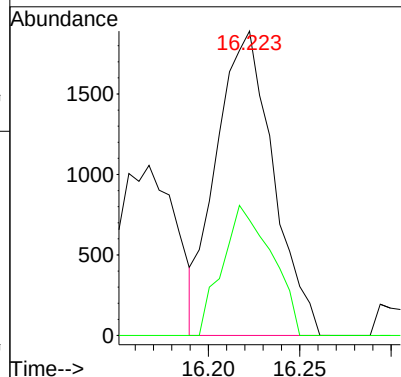
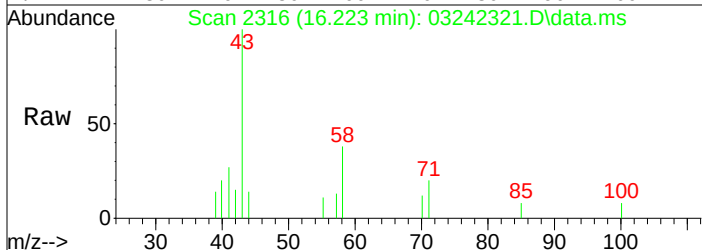
Tgt Ion:	91	Resp:	35903
Ion Ratio	Lower	Upper	
91	100		
92	57.7	39.8	79.8





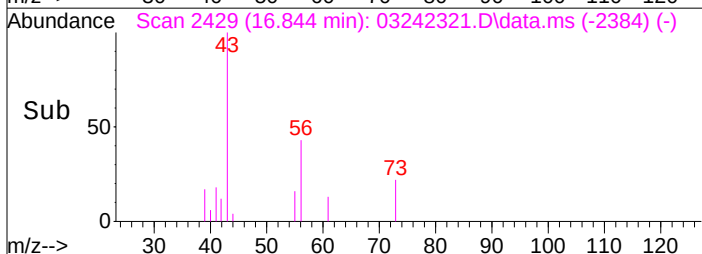
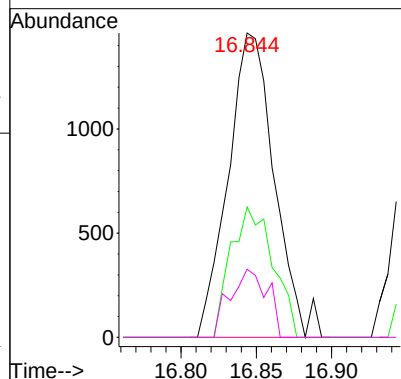
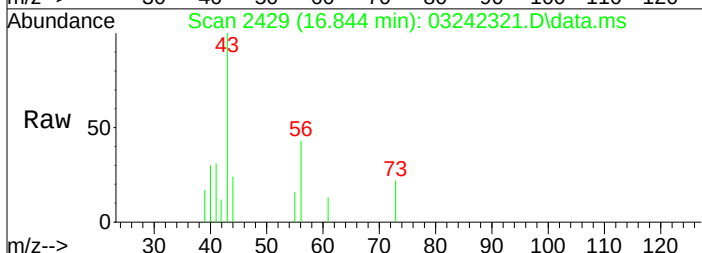
#59
2-Hexanone
Concen: 0.10 ng
RT: 16.22 min Scan# 2316
Delta R.T. 0.011 min
Lab File: 03242321.D
Acq: 24 Mar 2023 17:59

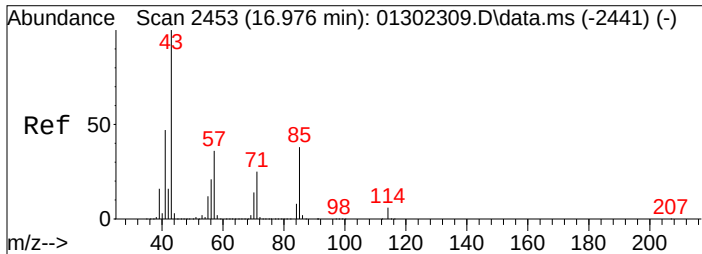
Tgt Ion: 43 Resp: 4082
Ion Ratio Lower Upper
43 100
58 37.2 32.3 72.3



#62
n-Butyl Acetate
Concen: 0.06 ng
RT: 16.84 min Scan# 2429
Delta R.T. -0.000 min
Lab File: 03242321.D
Acq: 24 Mar 2023 17:59

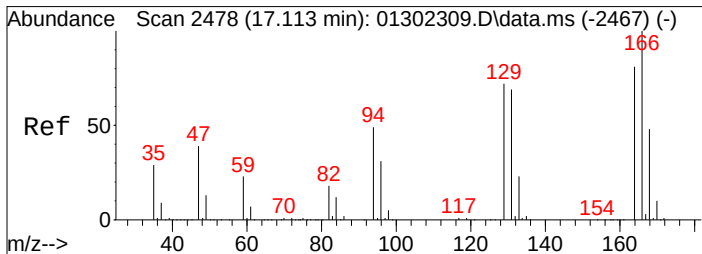
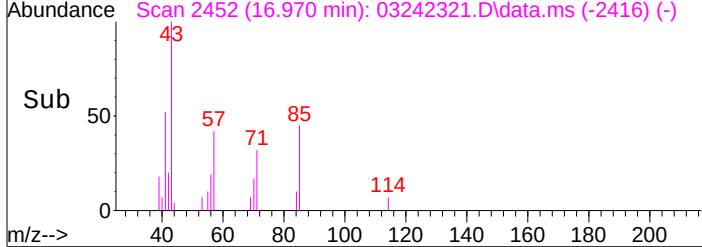
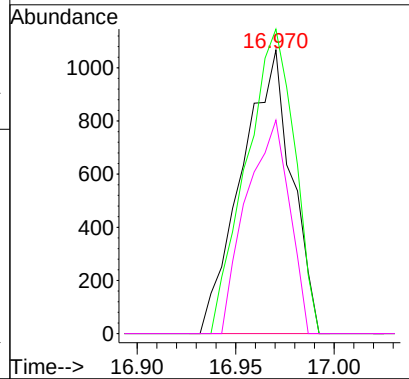
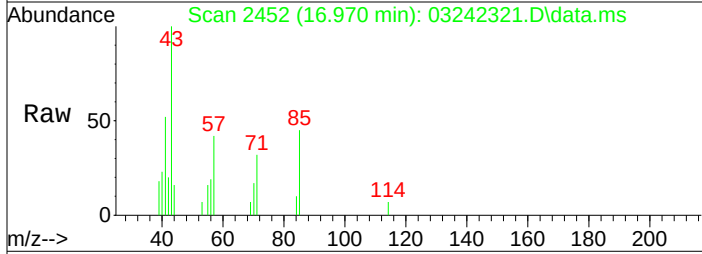
Tgt Ion: 43 Resp: 3116
Ion Ratio Lower Upper
43 100
56 39.3 21.0 61.0
73 18.1 0.0 34.3





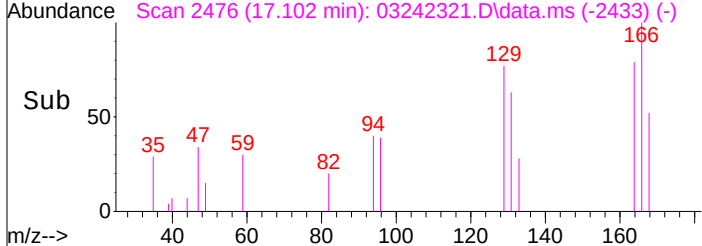
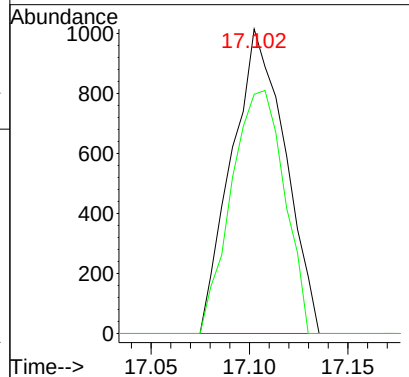
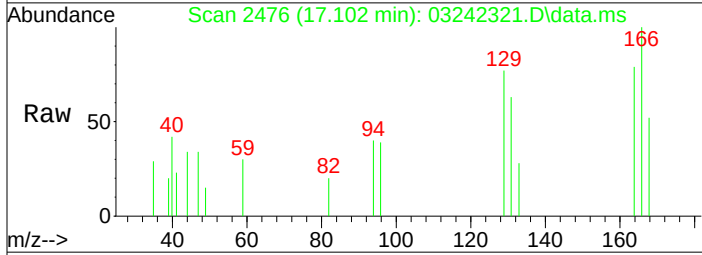
#63
n-Octane
Concen: 0.09 ng
RT: 16.97 min Scan# 2452
Delta R.T. 0.000 min
Lab File: 03242321.D
Acq: 24 Mar 2023 17:59

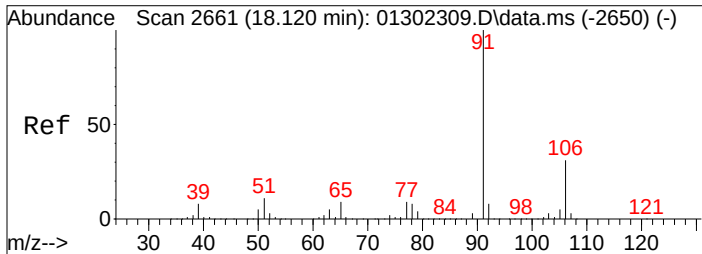
Tgt Ion:	57	Resp:	1885
Ion Ratio		Lower	Upper
57	100		
85	103.7	81.4	122.2
71	64.6	51.7	77.5



#64
Tetrachloroethene
Concen: 0.09 ng
RT: 17.10 min Scan# 2476
Delta R.T. -0.011 min
Lab File: 03242321.D
Acq: 24 Mar 2023 17:59

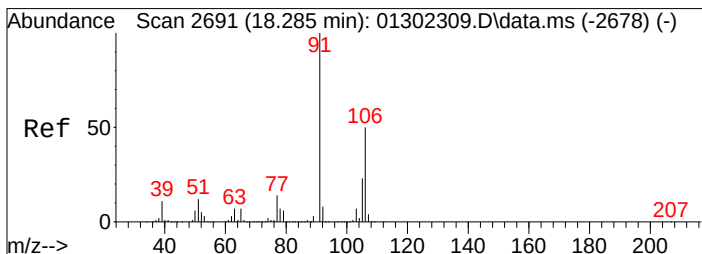
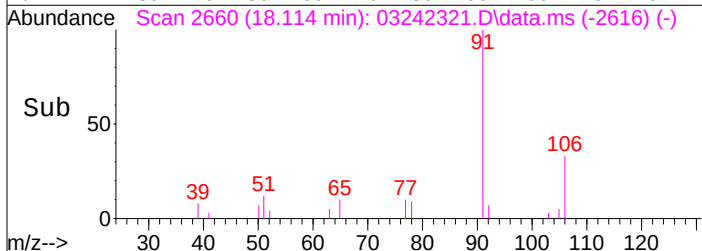
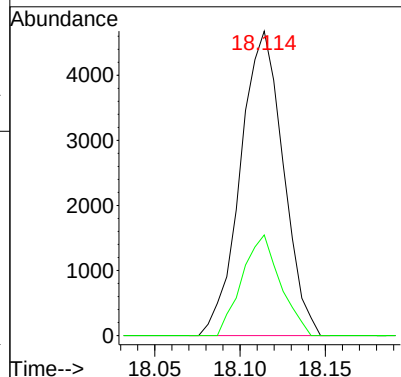
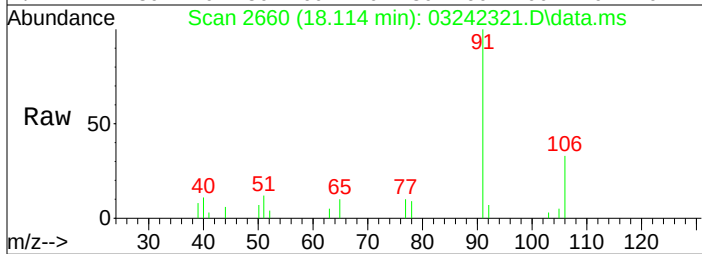
Tgt Ion:	166	Resp:	1914
Ion Ratio		Lower	Upper
166	100		
164	79.2	58.7	98.7





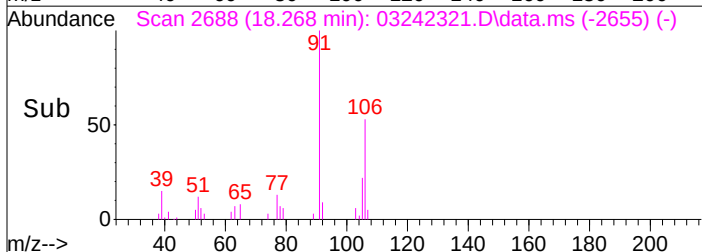
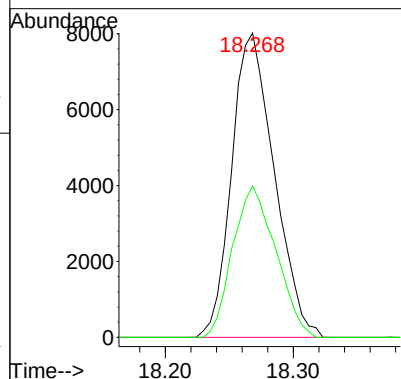
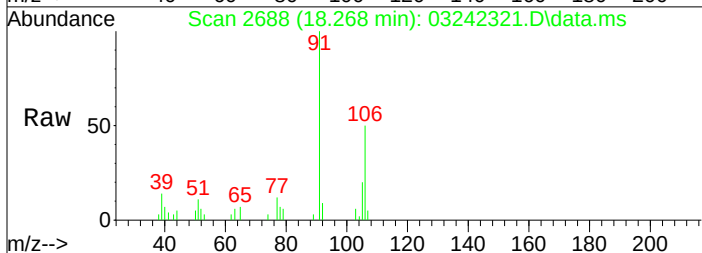
#66
Ethylbenzene
Concen: 0.09 ng
RT: 18.11 min Scan# 2660
Delta R.T. -0.005 min
Lab File: 03242321.D
Acq: 24 Mar 2023 17:59

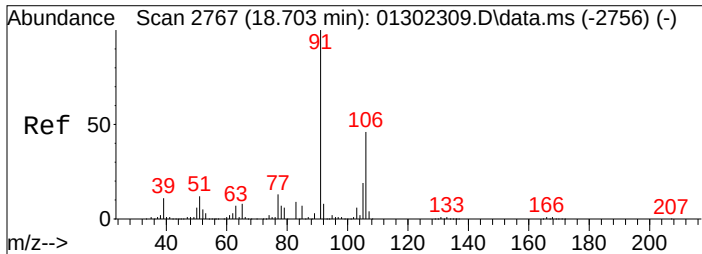
Tgt Ion:	91	Resp:	8179
Ion Ratio	Lower	Upper	
91	100		
106	29.5	11.5	51.5



#67
m- & p-Xylenes
Concen: 0.26 ng
RT: 18.27 min Scan# 2688
Delta R.T. -0.016 min
Lab File: 03242321.D
Acq: 24 Mar 2023 17:59

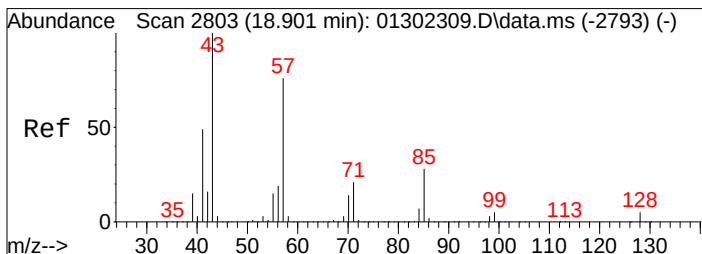
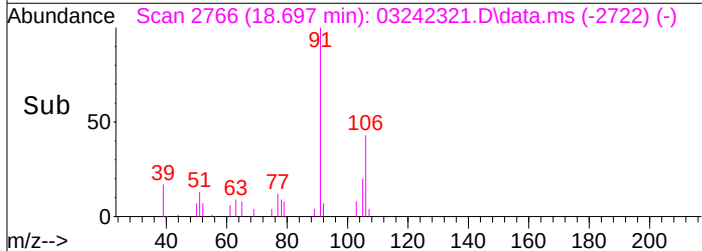
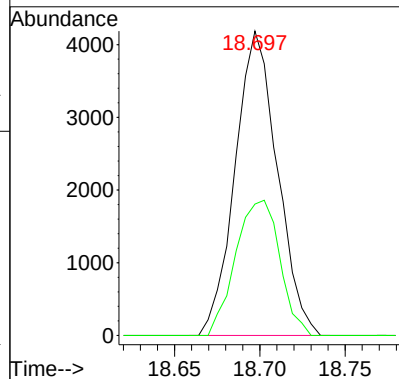
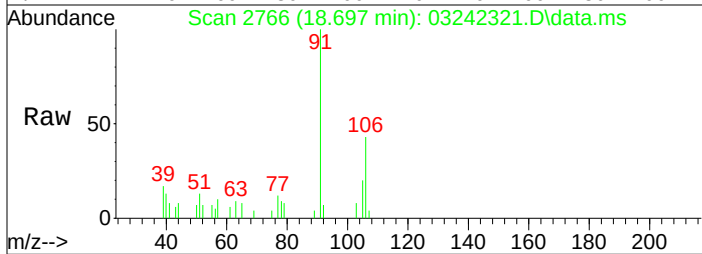
Tgt Ion:	91	Resp:	18521
Ion Ratio	Lower	Upper	
91	100		
106	50.3	29.2	69.2





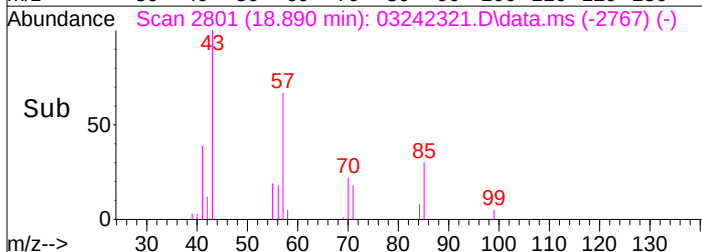
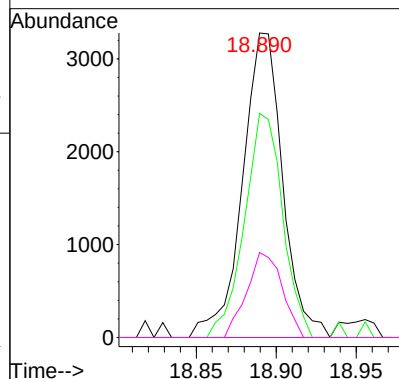
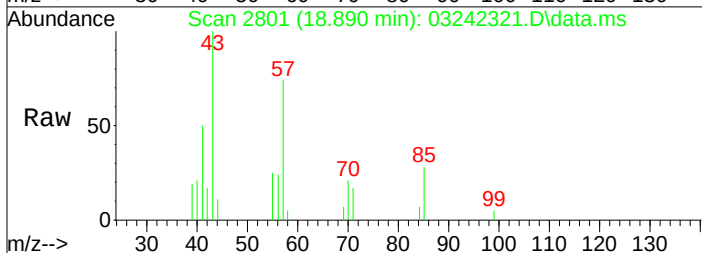
#70
o-Xylene
Concen: 0.10 ng
RT: 18.70 min Scan# 2766
Delta R.T. -0.005 min
Lab File: 03242321.D
Acq: 24 Mar 2023 17:59

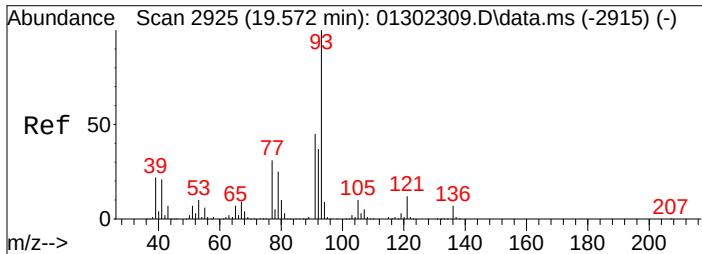
Tgt Ion: 91 Resp: 7220
Ion Ratio Lower Upper
91 100
106 46.3 27.3 67.3



#71
n-Nonane
Concen: 0.11 ng
RT: 18.89 min Scan# 2801
Delta R.T. -0.011 min
Lab File: 03242321.D
Acq: 24 Mar 2023 17:59

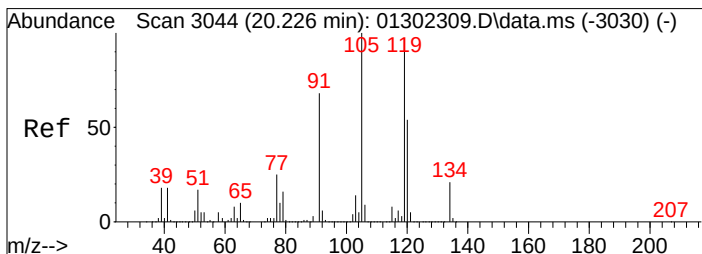
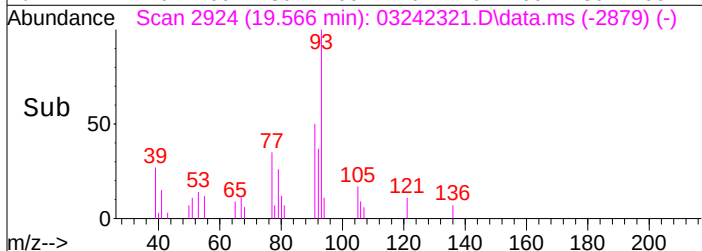
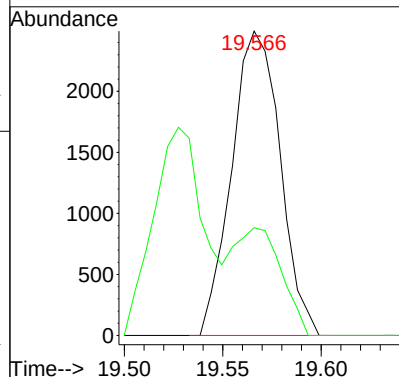
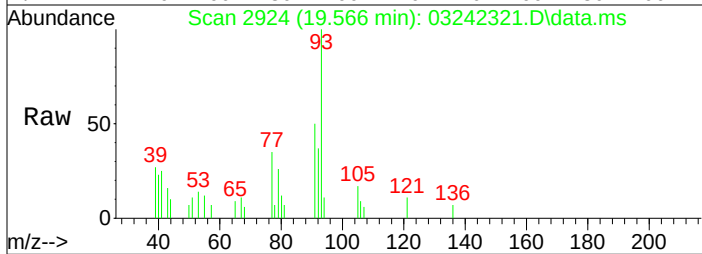
Tgt Ion: 43 Resp: 5739
Ion Ratio Lower Upper
43 100
57 69.7 64.6 104.6
85 24.5 9.6 49.6





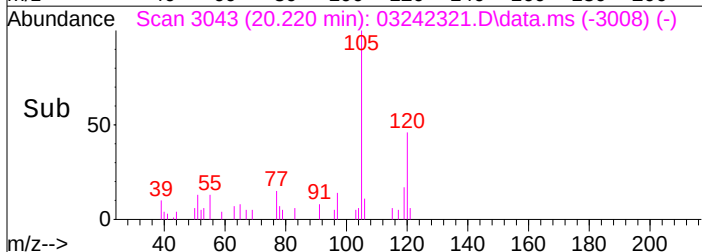
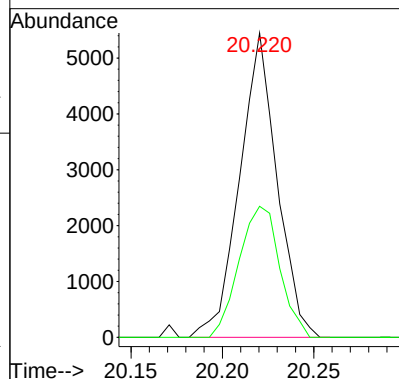
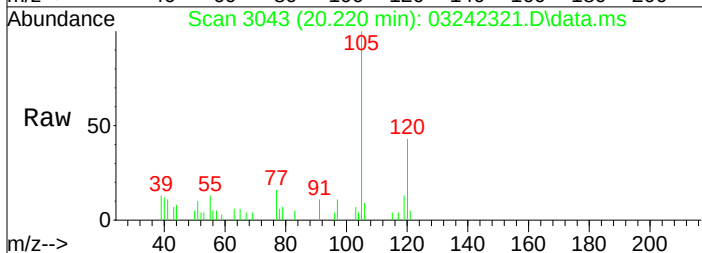
#75
 alpha-Pinene
 Concen: 0.19 ng
 RT: 19.57 min Scan# 2924
 Delta R.T. -0.005 min
 Lab File: 03242321.D
 Acq: 24 Mar 2023 17:59

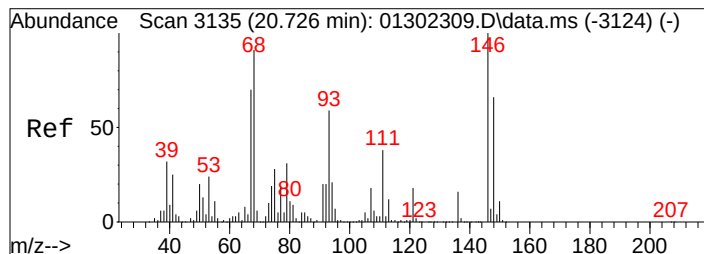
Tgt Ion: 93 Resp: 4277
 Ion Ratio Lower Upper
 93 100
 77 35.1 11.7 51.7



#82
 1,2,4-Trimethylbenzene
 Concen: 0.11 ng
 RT: 20.22 min Scan# 3043
 Delta R.T. -0.005 min
 Lab File: 03242321.D
 Acq: 24 Mar 2023 17:59

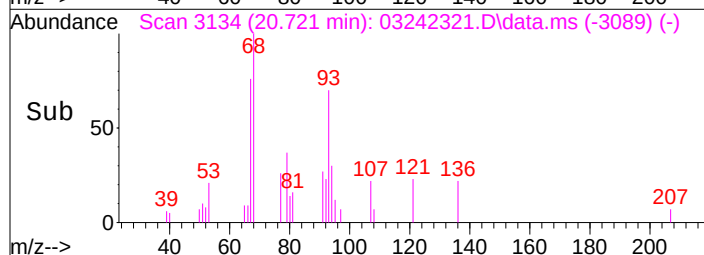
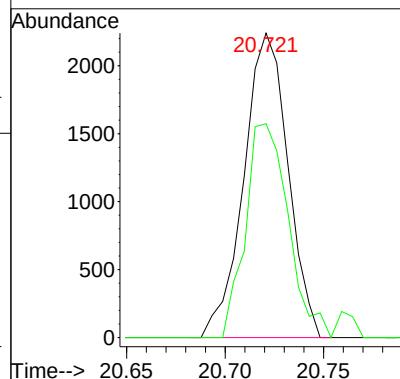
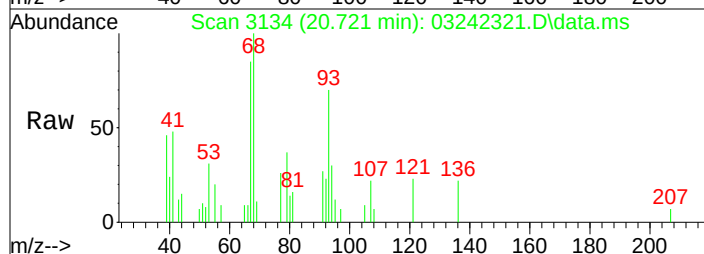
Tgt Ion: 105 Resp: 7737
 Ion Ratio Lower Upper
 105 100
 120 47.0 37.2 77.2





#91
d-Limonene
Concen: 0.17 ng
RT: 20.72 min Scan# 3134
Delta R.T. -0.005 min
Lab File: 03242321.D
Acq: 24 Mar 2023 17:59

Tgt Ion: 68 Resp: 3494
Ion Ratio Lower Upper
68 100
93 67.9 49.6 89.6



Data File : I:\MS16\DATA\2023_03\24\03242321.D
 Acq On : 24 Mar 2023 17:59
 Sample : P2301250-044dup (1000mL)
 Misc : S35-01312301

Vial: 6
 Operator: WA
 Inst : GCMS-16

3/26/23

Quant Time: Mar 26 20:49:02 2023
 Quant Method : I:\MS16\METHODS\C16122022.M
 Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Wed Dec 21 05:02:49 2022
 Response via : Initial Calibration
 DataAcq Meth:T015B.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (C_1)	11.28	130	204128	12.500	ng	-0.02
16) 1,4-Difluorobenzene (C_2)	13.41	114	939486	12.500	ng	-0.02
19) Chlorobenzene-d5 (C_3)	17.72	54	210797	12.500	ng	0.00

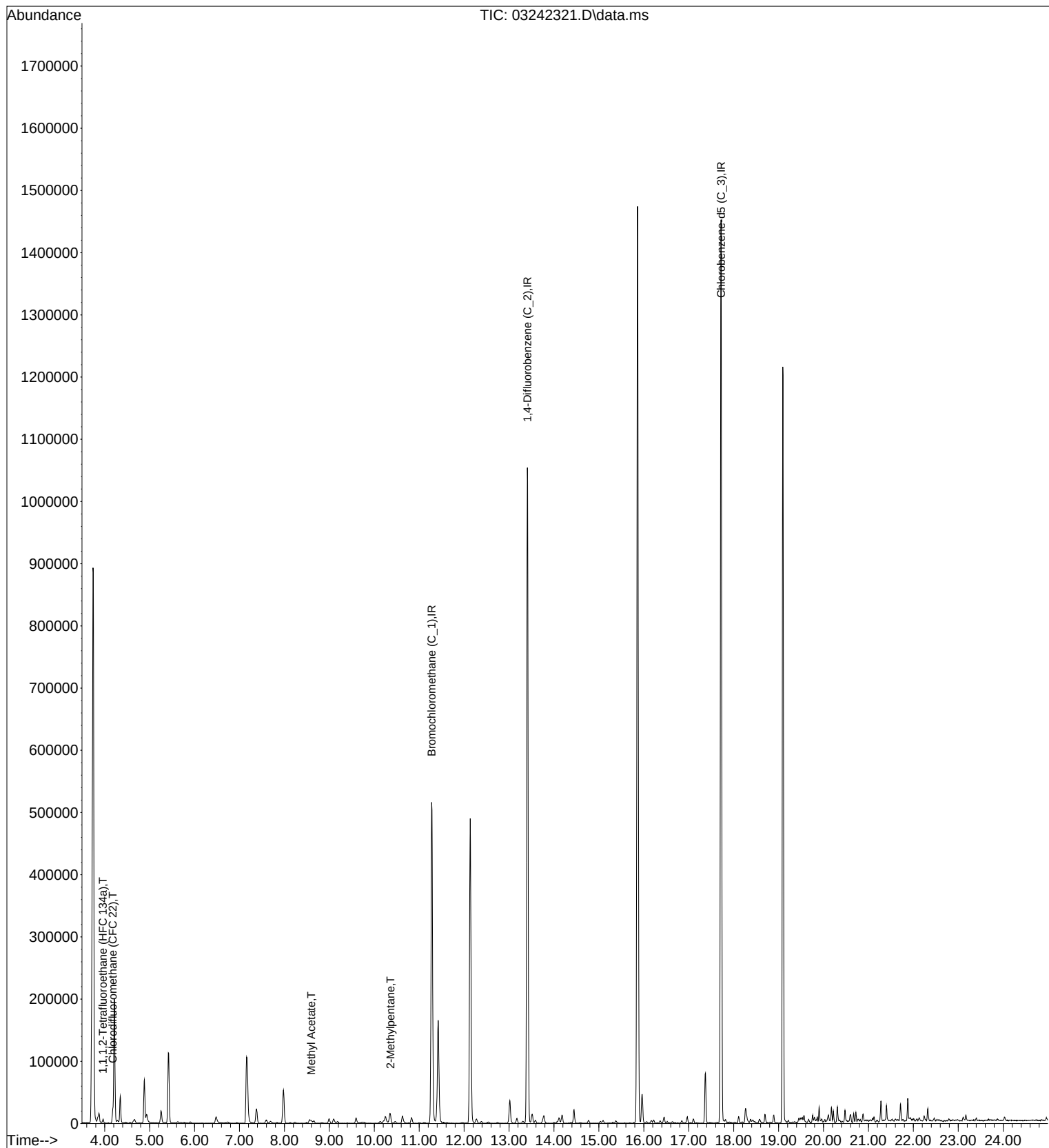
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloropentafluoroethane	3.87	85	302	N.D.		
3) 1,1,1,2-Tetrafluoroeth...	3.96	83	3763	0.233	ng	93
4) 1,1-Difluoroethane	4.09	65	263	N.D.		
5) Chlorodifluoromethane ...	4.18	67	1501	0.297	ng	92
6) 1-Chloro-1,1-Difluoroe...	4.64	65	1481	N.D.		
7) Dichlorofluoromethane ...	0.00	67	0	N.D.		
8) Vinylbromide	0.00	108	0	N.D.		
9) 2,2-Dichloro-1,1,1-tri...	0.00	83	0	N.D.		
10) 2-Methylbutane	0.00	57	0	N.D.	d	
11) Methyl Acetate	8.60	43	7916	0.157	ng	# 95
12) 2-Methylpentane	10.36	71	4046	0.202	ng	# 73
13) 2,2-Dichloropropane	0.00	77	0	N.D.		
14) 1,1-Dichloropropene	0.00	75	0	N.D.		
15) Thiophene	13.17	84	814	N.D.		
17) 2,3-Dimethylpentane	13.58	56	2094	N.D.		
18) Dibromomethane	13.82	174	118	N.D.		
20) Methyl Cyclohexane	15.10	55	1641	N.D.		
21) 1,3-Dichloropropane	0.00	76	0	N.D.	d	
22) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		
23) 1-Chlorohexane	0.00	91	0	N.D.		
24) 1,2,3-Trichloropropane	18.70	75	116	N.D.		
25) Bromobenzene	0.00	77	0	N.D.		
26) 2-Chlorotoluene	19.66	91	2456	N.D.		
27) 4-Chlorotoluene	19.75	91	781	N.D.		
28) Indane	20.77	117	706	N.D.		
29) Indene	20.95	115	58	N.D.		
30) 1,2,4,5-Tetramethylben...	21.62	119	908	N.D.		
31) 1,2,3,4-Tetramethylben...	21.65	119	1342	N.D.		
32) 1,2,3,5-Tetramethylben...	21.99	119	811	N.D.		
33) 1,2,3-Trichlorobenzene	0.00	180	0	N.D.		

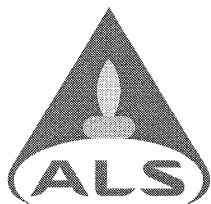
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS16\DATA\2023_03\24\03242321.D
Acq On : 24 Mar 2023 17:59
Sample : P2301250-044dup (1000mL)
Misc : S35-01312301

Vial: 6
Operator: WA
Inst : GCMS-16

Quant Time: Mar 26 20:49:02 2023
Quant Method : I:\MS16\METHODS\C16122022.M
Quant Title : T0-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Dec 21 05:02:49 2022
Response via : Initial Calibration
DataAcq Meth:T015B.M





Instructions for Data Validation-Method TO-15 (SCAN)

Page 1 of 3

1. Determination of Pressure Dilution Factor

Upon receipt at the laboratory the pressure or vacuum of the sample canisters is measured using a digital pressure gauge. The canisters are then pressurized with humidified zero air to approximately +3.5 psig (pounds per square inch gauge).

Pressure Dilution factor is calculated as:

$$PDF = \frac{P_f + 14.7}{P_i + 14.7}$$

P_f final pressure in psig

P_i initial pressure in psig

2. Validating Initial and Continuing Calibration Results

GC/MS target compound analysis is performed using internal standard quantitation. Three internal standard compounds (Bromochloromethane, 1,4-Difluorobenzene and Chlorobenzene-d5) are added to each aliquot of sample, blank, standard and duplicate at an amount of 25 nanograms(ng). Internal standard responses are used to calculate RRFs (relative response factors) as follows:

$$RRF = \frac{A_x C_{is}}{A_{is} C_x}$$

A_x area response of the analyte quantitation ion

A_{is} area response of the corresponding internal standard quantitation ion

C_{is} internal standard concentration, ng

C_x analyte concentration, ng

The percent relative standard deviation (%RSD) for the five or six initial calibration points should be less than 30% (with a maximum of two analytes $\leq 40\%$) for the calibration to be considered valid and linear.

$$\%RSD = \frac{SD}{\overline{RRF}}(100)$$

SD standard deviation

$\overline{RRF}$ average or mean RRF (ICAL)



Instructions for Data Validation-Method TO-15 (SCAN)

Page 2 of 3

The initial calibration is verified once per twenty-four hour analytical sequence with the analysis of a continuing calibration standard at one of the initial calibration levels (actual analyte concentrations of the CCV are the same as the corresponding concentrations in the initial calibration). The relative response factor of each target analyte from the daily continuing calibration standard is compared to the average relative response factor from the initial multipoint calibration. The percent difference (%D) of the initial and continuing calibration relative response factors is calculated as follows:

$$\%D = \left(\frac{\overline{RRF} - RRF_{cont}}{\overline{RRF}} \right) (100)$$

$\overline{RRF}$ average relative response factor from the initial calibration

RRF_{cont} relative response factor from the daily continuing calibration standard

Note: the percent difference (%D) should be less than 30% for an acceptable continuing calibration standard.

3. Validating GC/MS Target Analyte Quantitation Results

Target analytes are measured in nanograms using internal standard quantitation as follows:

$$ng_x = \frac{A_x ng_{is}}{A_{is} \overline{RRF}}$$

ng_x nanogram concentration of analyte x

A_x area response of the analyte's quantitation ion

A_{is} area response of the corresponding internal standard's quantitation ion

ng_{is} internal standard amount, in nanograms

$\overline{RRF}$ average or mean RRFs (ICAL)



Instructions for Data Validation-Method TO-15 (SCAN)

Page 3 of 3

4. Calculation of $\mu\text{g}/\text{m}^3$ (microgram per cubic meter) Results

Target compound results reported on the "Results of Analysis" form in units of $\mu\text{g}/\text{m}^3$ are calculated as follows:

$$\mu\text{g}/\text{m}^3 = \frac{(ng)(PDF)}{L}$$

ng nanograms of analyte (measured on the GC/MS quantitation report)

PDF pressure dilution factor (see equation 1)

L sample aliquot in Liters

5. Conversion to ppb (parts per billion) Volume

$$C_{ppbv} = C_x \left(\frac{24.46}{FW} \right)$$

FW formula weight of the target analytes (i.e. formula weight of Dichloromethane is 84.94; 1,2-Dichloropropane is 113)

24.46 molar volume of ideal gas at 25°C and 1 atmosphere

C_x final analyte concentration calculated in equation 4 ($\mu\text{g}/\text{m}^3$)

SIMIVALLEY QC Certification

Conditioner: P-Conditioner-11

Cycles: 30

Batch: 30701

Batch Started By: on 3/6/23 0922
Finished Cleaning By: KYLAN.MALLOY on 3/7/23 0837

Container IDs	Cleaned Date	QC Date Analyzed	QC Results		Initial Vacuum		Final Vacuum		Comments
			Vacuum	Date/Time	Date/Time	User	Vacuum	Date/Time	User
AC02519	3/6/23	3/6/23	-14.3	3/7/23 0837	3/13/23 1108	KYLAN.MALLOY	-14.0	3/13/23 1108	GC22_032223
AC02129	3/6/23	3/6/23	-14.3	3/7/23 0837	3/24/23 1151	KYLAN.MALLOY	-14.0	3/24/23 1151	
AS01263	3/6/23	3/6/23	-14.3	3/7/23 0837	3/23/23 1121	KYLAN.MALLOY	-14.0	3/23/23 1121	
AC02376	3/6/23	3/6/23	-14.3	3/7/23 0837	3/24/23 0747	KYLAN.MALLOY	-14.0	3/24/23 0747	
AS00757	3/6/23	3/6/23	-14.3	3/7/23 0837	3/23/23 1121	KYLAN.MALLOY	-14.0	3/23/23 1121	
AS01771	3/6/23	3/6/23	-14.3	3/7/23 0837	3/23/23 1121	KYLAN.MALLOY	-14.0	3/23/23 1121	
AS01145	3/6/23	3/6/23	-14.3	3/7/23 0837	3/23/23 1121	KYLAN.MALLOY	-14.0	3/23/23 1121	
AS00711	3/6/23	3/6/23	-14.3	3/7/23 0837	3/23/23 1121	KYLAN.MALLOY	-14.0	3/23/23 1121	
AS01321	3/6/23	3/6/23	-14.3	3/7/23 0837	3/23/23 1121	KYLAN.MALLOY	-14.0	3/23/23 1121	
AS01308	3/6/23	3/6/23	-14.3	3/7/23 0837	3/23/23 1121	KYLAN.MALLOY	-14.0	3/23/23 1121	

Passed For: TO-15 (75 Comp 0.1 ug/m3 + TICs)

Exceptions:

COMPONENTID	Date / Time	MODULE	USER	COMMENTS
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Batch Comment:

* QC Canister

Data Path : I:\MS21\DATA\2023_03\10\
 Data File : 03102327.D
 Acq On : 11 Mar 2023 11:10
 Operator : KM
 Sample : AC02015
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 209 Sample Multiplier: 1

APL 3/13/23

Quant Time: Mar 13 08:26:29 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.727	130	47990	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.901	114	158948	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	24926	1000.00	pg	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.545	65	75802	1030.33	pg	0.00
Spiked Amount 1000.000			Recovery	=	103.03%	
57) Toluene-d8 (SS2)	12.697	98	151377	859.28	pg	0.00
Spiked Amount 1000.000			Recovery	=	85.93%	
74) Bromofluorobenzene (SS3)	16.228	174	62992	905.86	pg	0.00
Spiked Amount 1000.000			Recovery	=	90.59%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3] * Dichlorodifluoromethane	3.720	85	7940	97.473	pg	100
4] * Chloromethane	3.851	50	1382	36.935	pg	100
5] * 1,2-Dichloro-1,1,2,2...	3.936	85	277	5.494	pg	94
7] * 1,3-Butadiene	4.147	54	70	2.343	pg	# 1
8] * Bromomethane	4.367	94	120	4.197	pg	# 20
10] * Ethanol	4.596	45	6751	394.570	pg	98
11] * Acetonitrile	4.768	41	1305	21.189	pg	97
12] * Acrolein	4.878	56	324	13.183	pg	98
13] * Acetone	5.002	58	10107	305.401	pg	76
14] * Trichlorofluoromethane	5.126	101	4895	47.080	pg	99
15] * 2-Propanol (Isopropa...	5.200	45	12833	435.462	pg	95
16] * Acrylonitrile	5.362	53	72	1.567	pg	99
18] tert-Butanol	5.754	59	328	7.426	pg	# 37
19] * Methylene Chloride	5.739	84	3206	63.677	pg	99
21] * Trichlorotrifluoroet...	5.992	151	1021	19.347	pg	97
22] * Carbon Disulfide	6.016	76	3900	22.862	pg	99
26] * Vinyl Acetate	6.887	86	304	83.023	pg	# 1
27] * 2-Butanone (MEK)	7.174	72	723	23.645	pg	86
29] DIPE	7.831	45	641	5.645	pg	# 52
30] * Ethyl Acetate	7.831	61	757	82.622	pg	93
31] * n-Hexane	7.818	57	411	6.175	pg	99
32] * Chloroform	7.864	83	331	3.797	pg	97
36] * 1,2-Dichloroethane	8.666	62	183	2.836	pg	99
39] * Benzene	9.490	78	3143	22.215	pg	97
42] * Carbon Tetrachloride	9.661	117	1086	60.330	pg	99
43] * Cyclohexane	9.818	84	219	3.988	pg	92
46] * Bromodichloromethane	10.626	83	78	2.638	pg	# 75
47] * Trichloroethene	10.698	130	65	1.336	pg	82
48] * 1,4-Dioxane	10.757	88	631	16.698	pg	85
49] Isooctane	10.778	56	473	10.092	pg	82
51] * n-Heptane	11.083	71	221	5.293	pg	# 81
53] * 4-Methyl-2-pentanone	11.804	58	230	8.074	pg	98
58] * Toluene	12.810	91	6495	35.857	pg	98
60] * Dibromochloromethane	13.260	129	151	9.119	pg	97
63] * n-Octane	14.005	85	80	2.004	pg	94
64] * Tetrachloroethene	14.103	166	92	1.707	pg	85
65] * Chlorobenzene	14.826	112	141	1.139	pg	# 42
66] * Ethylbenzene	15.214	91	1065	5.435	pg	100
67] * m- & p-Xylenes	15.381	91	2756	17.897	pg	98
68] * Bromoform	15.417	173	103	8.755	pg	# 26
70] * Styrene	15.721	104	461	4.402	pg	100
71] * o-Xylene	15.822	91	1013	6.347	pg	98
72] * n-Nonane	16.067	57	131	2.344	pg	98
75] * Cumene	16.363	105	122	0.567	pg	# 48

Data Path : I:\MS21\DATA\2023_03\10\
 Data File : 03102327.D
 Acq On : 11 Mar 2023 11:10
 Operator : KM
 Sample : AC02015
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 209 Sample Multiplier: 1

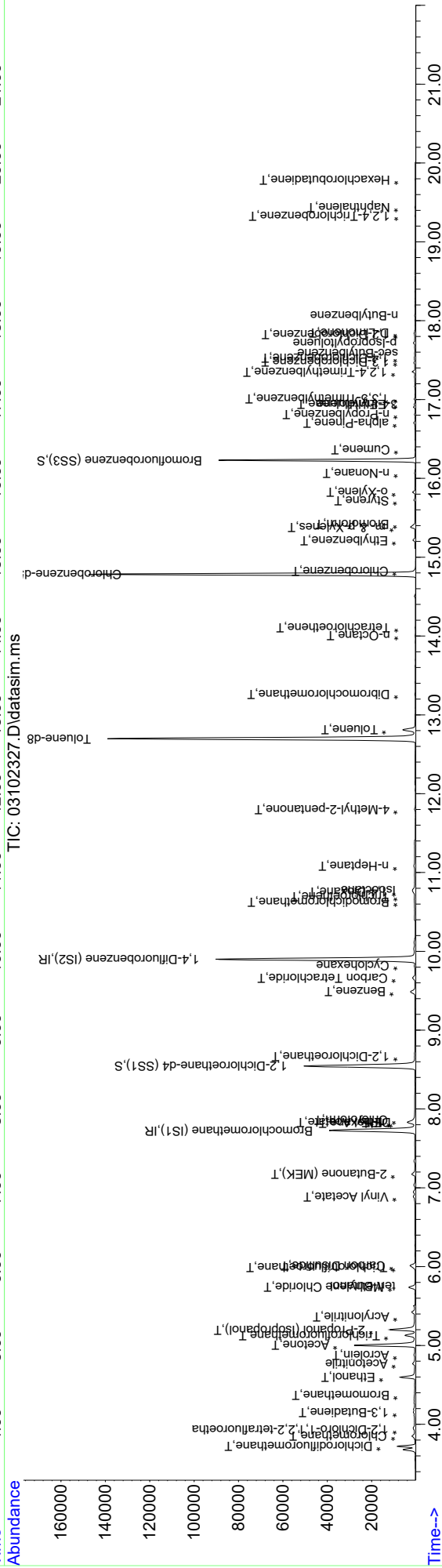
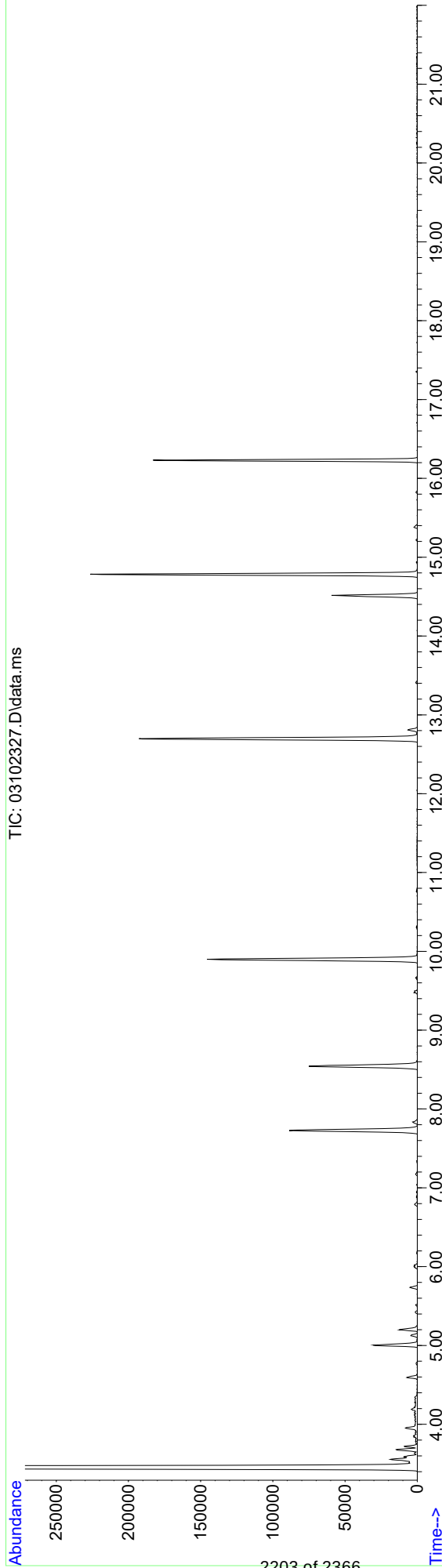
Quant Time: Mar 13 08:26:29 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA TO-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76]	* alpha-Pinene	16.705	93	434	4.478	pg	# 85
77]	* n-Propylbenzene	16.812	91	314	1.311	pg	98
78]	3-Ethyltoluene	16.938	105	314	1.598	pg	96
79]	* 4-Ethyltoluene	16.938	105	311	1.629	pg	94
80]	* 1,3,5-Trimethylbenzene	17.006	105	276	1.622	pg	99
84]	* 1,2,4-Trimethylbenzene	17.351	105	839	4.870	pg	87
86]	* 1,3-Dichlorobenzene	17.476	146	99	0.927	pg	99
87]	* 1,4-Dichlorobenzene	17.530	146	178	1.719	pg	100
89]	sec-Butylbenzene	17.584	105	74	0.305	pg	# 56
91]	p-Isopropyltoluene	17.718	119	322	1.566	pg	98
92]	* 1,2-Dichlorobenzene	17.821	146	80	0.726	pg	96
93]	* D-Limonene	17.843	68	132	4.393	pg	# 79
94]	n-Butylbenzene	18.070	134	69	1.404	pg	# 57
97]	* 1,2,4-Trichlorobenzene	19.331	180	60	0.846	pg	# 2
98]	* Naphthalene	19.434	128	225	1.463	pg	# 68
100]	* Hexachlorobutadiene	19.788	225	89	1.352	pg	# 41

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

Data Path : I:\MS21\DATA\2023_03\10\
Data File : 03102327.D
Acq On : 11 Mar 2023 11:10
Operator : KM
Sample : AC02015
Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial : 209 Sample Multiplier: 1

Quant Time: Mar 13 08:26:29 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA T0-15
QLast Update : Wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data Path : I:\MS21\DATA\2023_03\08\
 Data File : 03082317.D
 Acq On : 9 Mar 2023 1:58
 Operator : KM
 Sample : AC02250
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 13 Sample Multiplier: 1

APL 3/9/23

Quant Time: Mar 09 05:50:28 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA TO-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.734	130	55700	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.902	114	186301	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.782	54	29490	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.550	65	87400	1023.53	pg	0.00
Spiked Amount 1000.000			Recovery =	102.35%		
57) Toluene-d8 (SS2)	12.697	98	172588	828.06	pg	0.00
Spiked Amount 1000.000			Recovery =	82.81%		
74) Bromofluorobenzene (SS3)	16.229	174	75112	912.98	pg	0.00
Spiked Amount 1000.000			Recovery =	91.30%		
Target Compounds						Qvalue
2] * Propene	3.682	42	377	10.454	pg	# 1
3] * Dichlorodifluoromethane	3.729	85	1649	17.441	pg	100
4] * Chloromethane	3.861	50	524	12.066	pg	99
5] * 1,2-Dichloro-1,1,2,2...	3.946	85	259	4.426	pg	96
6] * Vinyl Chloride	4.042	62	132	2.551	pg	# 77
7] * 1,3-Butadiene	4.152	54	123	3.548	pg	# 61
8] * Bromomethane	4.372	94	366	11.029	pg	95
9] * Chloroethane	4.513	64	156	5.173	pg	# 42
10] * Ethanol	4.606	45	4788	241.105	pg	98
11] * Acetonitrile	4.778	41	940	13.150	pg	99
12] * Acrolein	4.884	56	434	15.214	pg	92
13] * Acetone	5.014	58	7178	186.873	pg	91
14] * Trichlorofluoromethane	5.138	101	1252	10.375	pg	100
15] * 2-Propanol (Isopropa...	5.213	45	2116	61.863	pg	# 88
16] * Acrylonitrile	5.356	53	239	4.481	pg	99
17] * 1,1-Dichloroethene	5.657	96	128	2.232	pg	90
18] tert-Butanol	5.764	59	1096	21.378	pg	# 75
19] * Methylene Chloride	5.744	84	596	10.199	pg	97
20] * 3-Chloro-1-propene (...)	5.856	41	106	2.880	pg	94
21] * Trichlorotrifluoroet...	6.002	151	358	5.845	pg	98
22] * Carbon Disulfide	6.021	76	3423	17.288	pg	100
23] * trans-1,2-Dichloroet...	6.581	96	145	2.495	pg	99
24] * 1,1-Dichloroethane	6.767	63	210	2.459	pg	# 42
25] * Methyl tert-Butyl Ether	6.893	73	268	1.805	pg	# 59
26] * Vinyl Acetate	6.898	86	628	147.768	pg	# 1
27] * 2-Butanone (MEK)	7.179	72	699	19.696	pg	85
28] * cis-1,2-Dichloroethene	7.572	96	152	2.464	pg	96
29] DIPE	7.857	45	686	5.205	pg	89
30] * Ethyl Acetate	7.844	61	415	39.025	pg	91
31] * n-Hexane	7.825	57	176	2.278	pg	# 88
32] * Chloroform	7.870	83	461	4.556	pg	97
34] * Tetrahydrofuran	8.349	71	196	6.427	pg	96
35] ETBE	8.440	87	221	4.272	pg	100
36] * 1,2-Dichloroethane	8.676	62	115	1.535	pg	# 42
38] * 1,1,1-Trichloroethane	8.972	97	282	6.183	pg	99
39] * Benzene	9.485	78	1225	7.387	pg	98
42] * Carbon Tetrachloride	9.667	117	405	19.195	pg	95
43] * Cyclohexane	9.823	84	264	4.102	pg	100
44] TAME	10.243	87	148	5.477	pg	# 27
45] * 1,2-Dichloropropane	10.423	63	133	3.592	pg	90
46] * Bromodichloromethane	10.619	83	269	7.762	pg	99
47] * Trichloroethene	10.699	130	195	3.418	pg	# 78
48] * 1,4-Dioxane	10.764	88	242	5.464	pg	97
49] Isooctane	10.786	56	158	2.876	pg	83

Data Path : I:\MS21\DATA\2023_03\08\
 Data File : 03082317.D
 Acq On : 9 Mar 2023 1:58
 Operator : KM
 Sample : AC02250
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 13 Sample Multiplier: 1

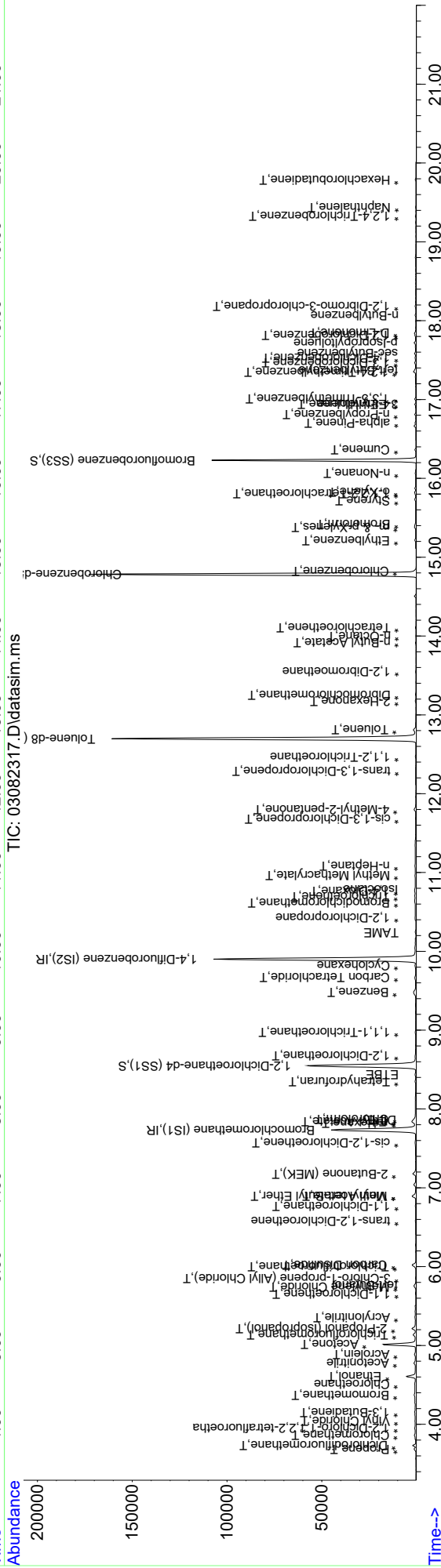
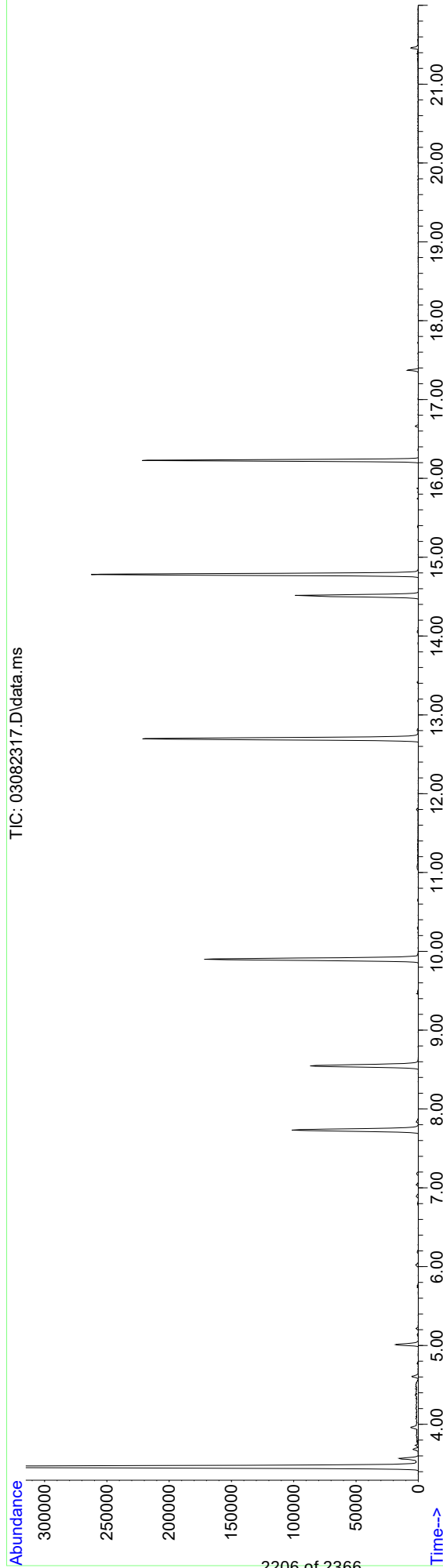
Quant Time: Mar 09 05:50:28 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA TO-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50]	* Methyl Methacrylate	10.960	69	228	10.248	pg	98
51]	* n-Heptane	11.083	71	121	2.473	pg	90
52]	* cis-1,3-Dichloropropene	11.681	75	112	3.522	pg	99
53]	* 4-Methyl-2-pentanone	11.798	58	484	14.495	pg	97
54]	* trans-1,3-Dichloropr...	12.286	75	82	3.475	pg	# 42
55]	* 1,1,2-Trichloroethane	12.470	97	148	3.712	pg	98
58]	* Toluene	12.811	91	1146	5.348	pg	99
59]	* 2-Hexanone	13.173	58	407	9.886	pg	92
60]	* Dibromochloromethane	13.255	129	208	10.618	pg	95
61]	* 1,2-Dibromoethane	13.548	107	120	4.398	pg	95
62]	* n-Butyl Acetate	13.913	56	258	17.924	pg	# 85
63]	* n-Octane	14.000	85	92	1.948	pg	88
64]	* Tetrachloroethene	14.109	166	266	4.171	pg	97
65]	* Chlorobenzene	14.827	112	386	2.637	pg	98
66]	* Ethylbenzene	15.214	91	511	2.204	pg	98
67]	* m- & p-Xylenes	15.381	91	947	5.198	pg	97
68]	* Bromoform	15.423	173	172	12.357	pg	94
70]	* Styrene	15.721	104	264	2.131	pg	98
71]	* o-Xylene	15.823	91	466	2.468	pg	99
72]	* n-Nonane	16.061	57	147	2.223	pg	99
73]	* 1,1,2,2-Tetrachloroe...	15.805	83	260	4.121	pg	95
75]	* Cumene	16.363	105	516	2.028	pg	97
76]	* alpha-Pinene	16.705	93	236	2.058	pg	# 74
77]	* n-Propylbenzene	16.812	91	505	1.782	pg	97
78]	3-Ethyltoluene	16.938	105	390	1.678	pg	100
79]	* 4-Ethyltoluene	16.938	105	390	1.726	pg	100
80]	* 1,3,5-Trimethylbenzene	17.006	105	372	1.848	pg	97
83]	tert-Butylbenzene	17.373	134	291	5.950	pg	# 2
84]	* 1,2,4-Trimethylbenzene	17.352	105	448	2.198	pg	96
86]	* 1,3-Dichlorobenzene	17.471	146	191	1.512	pg	98
87]	* 1,4-Dichlorobenzene	17.530	146	156	1.273	pg	91
89]	sec-Butylbenzene	17.584	105	449	1.562	pg	93
91]	p-Isopropyltoluene	17.719	119	498	2.047	pg	98
92]	* 1,2-Dichlorobenzene	17.816	146	201	1.542	pg	91
93]	* D-Limonene	17.843	68	231	6.498	pg	92
94]	n-Butylbenzene	18.070	134	95	1.634	pg	96
95]	* 1,2-Dibromo-3-chloro...	18.187	157	241	17.961	pg	97
97]	* 1,2,4-Trichlorobenzene	19.326	180	176	2.098	pg	96
98]	* Naphthalene	19.435	128	148	0.813	pg	# 68
100]	* Hexachlorobutadiene	19.788	225	305	3.916	pg	99

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

Data Path : I:\MS21\DATA\2023_03\08\
Data File : 03082317.D
Acq On : 9 Mar 2023 1:58
Operator : KM
Sample : AC02250
Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 09 05:50:28 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA T0-15
QLast Update : Wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data Path : I:\MS21\DATA\2023_03\03\
 Data File : 03032321.D
 Acq On : 4 Mar 2023 6:50
 Operator : KM
 Sample : AS01743
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 202 Sample Multiplier: 1

APL 3/6/23

Quant Time: Mar 06 08:19:00 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA TO-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.727	130	63268	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.896	114	183521	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	28165	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.540	65	91217	940.45	pg	0.00
Spiked Amount 1000.000			Recovery	=	94.05%	
57) Toluene-d8 (SS2)	12.697	98	180893	908.74	pg	0.00
Spiked Amount 1000.000			Recovery	=	90.87%	
74) Bromofluorobenzene (SS3)	16.228	174	72381	921.17	pg	0.00
Spiked Amount 1000.000			Recovery	=	92.12%	

Target	Compounds					Qvalue
2]	* Propene	3.673	42	616	15.037 pg	# 1
3]	* Dichlorodifluoromethane	3.720	85	3497	32.563 pg	99
4]	* Chloromethane	3.846	50	927	18.792 pg	100
5]	* 1,2-Dichloro-1,1,2,2...	3.936	85	159	2.392 pg	89
6]	* Vinyl Chloride	4.032	62	50	0.851 pg	# 42
7]	* 1,3-Butadiene	4.147	54	61	1.549 pg	# 5
8]	* Bromomethane	4.362	94	142	3.767 pg	# 1
9]	* Chloroethane	4.497	64	78	2.277 pg	# 42
10]	* Ethanol	4.591	45	14087	624.513 pg	98
11]	* Acetonitrile	4.768	41	934	11.503 pg	97
12]	* Acrolein	4.877	56	463	14.289 pg	100
13]	* Acetone	5.002	58	7718	176.897 pg	91
14]	* Trichlorofluoromethane	5.126	101	2089	15.240 pg	99
15]	* 2-Propanol (Isopropa...	5.200	45	2681	69.006 pg	93
16]	* Acrylonitrile	5.349	53	71	1.172 pg	94
18]	tert-Butanol	5.744	59	428	7.350 pg	# 72
19]	* Methylene Chloride	5.734	84	1671	25.175 pg	99
21]	* Trichlorotrifluoroet...	5.987	151	438	6.296 pg	94
22]	* Carbon Disulfide	6.011	76	2470	10.983 pg	100
24]	* 1,1-Dichloroethane	6.772	63	85	0.876 pg	# 42
25]	* Methyl tert-Butyl Ether	6.882	73	51	0.302 pg	# 59
26]	* Vinyl Acetate	6.887	86	178	36.873 pg	# 1
27]	* 2-Butanone (MEK)	7.169	72	698	17.315 pg	90
29]	DIPE	7.825	45	1968	13.147 pg	# 45
30]	* Ethyl Acetate	7.825	61	2467	204.237 pg	93
31]	* n-Hexane	7.818	57	153	1.744 pg	# 53
32]	* Chloroform	7.863	83	226	1.966 pg	98
34]	* Tetrahydrofuran	8.354	71	66	1.905 pg	88
36]	* 1,2-Dichloroethane	8.656	62	108	1.269 pg	# 1
39]	* Benzene	9.484	78	1396	8.546 pg	98
42]	* Carbon Tetrachloride	9.656	117	445	21.411 pg	97
46]	* Bromodichloromethane	10.619	83	106	3.105 pg	91
47]	* Trichloroethene	10.698	130	65	1.157 pg	99
48]	* 1,4-Dioxane	10.756	88	109	2.498 pg	84
49]	Isooctane	10.778	56	124	2.292 pg	81
51]	* n-Heptane	11.083	71	78	1.618 pg	# 39
53]	* 4-Methyl-2-pentanone	11.792	58	258	7.844 pg	100
58]	* Toluene	12.805	91	1973	9.640 pg	97
59]	* 2-Hexanone	13.173	58	148	3.764 pg	# 48
60]	* Dibromochloromethane	13.260	129	87	4.650 pg	96
64]	* Tetrachloroethene	14.109	166	74	1.215 pg	93
65]	* Chlorobenzene	14.826	112	134	0.958 pg	# 42
66]	* Ethylbenzene	15.214	91	260	1.174 pg	99
67]	* m- & p-Xylenes	15.381	91	495	2.845 pg	98

Data Path : I:\MS21\DATA\2023_03\03\
 Data File : 03032321.D
 Acq On : 4 Mar 2023 6:50
 Operator : KM
 Sample : AS01743
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 202 Sample Multiplier: 1

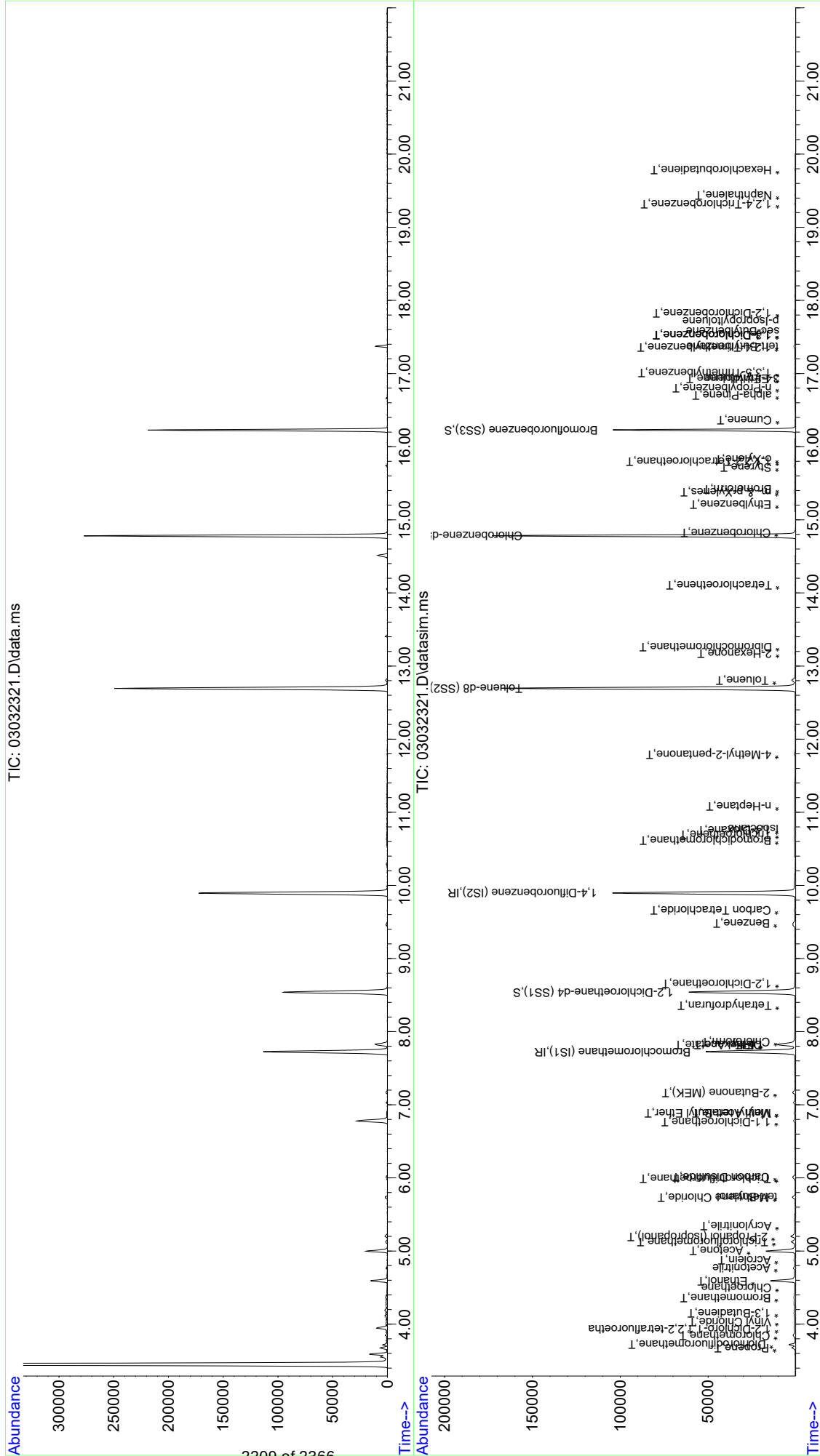
Quant Time: Mar 06 08:19:00 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
68]	* Bromoform	15.417	173	86	6.469	pg	#	26
70]	* Styrene	15.721	104	127	1.073	pg		87
71]	* o-Xylene	15.822	91	189	1.048	pg		90
73]	* 1,1,2,2-Tetrachloroe...	15.798	83	63	1.045	pg	#	18
75]	* Cumene	16.363	105	115	0.473	pg	#	48
76]	* alpha-Pinene	16.705	93	87	0.794	pg	#	73
77]	* n-Propylbenzene	16.807	91	167	0.617	pg	#	51
78]	3-Ethyltoluene	16.933	105	99	0.446	pg	#	44
79]	* 4-Ethyltoluene	16.933	105	99	0.459	pg	#	44
80]	* 1,3,5-Trimethylbenzene	17.006	105	76	0.395	pg	#	28
83]	tert-Butylbenzene	17.373	134	260	5.567	pg	#	1
84]	* 1,2,4-Trimethylbenzene	17.357	105	191	0.981	pg		99
86]	* 1,3-Dichlorobenzene	17.529	146	72	0.597	pg		90
87]	* 1,4-Dichlorobenzene	17.529	146	78	0.667	pg		97
89]	sec-Butylbenzene	17.583	105	77	0.281	pg	#	56
91]	p-Isopropyltoluene	17.718	119	186	0.800	pg		99
92]	* 1,2-Dichlorobenzene	17.821	146	61	0.490	pg	#	18
97]	* 1,2,4-Trichlorobenzene	19.321	180	90	1.123	pg		97
98]	* Naphthalene	19.439	128	82	0.472	pg	#	68
100]	* Hexachlorobutadiene	19.788	225	112	1.506	pg	#	41

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

Data Path : I:\MS21\DATA\2023_03\03\
Data File : 03032321.D
Acq On : 4 Mar 2023 6:50
Operator : KM
Sample : AS01743
Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial : 202 Sample Multiplier: 1

Quant Time: Mar 06 08:19:00 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA T0-15
QLast Update : Wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data Path : I:\MS21\DATA\2023_03\09\
 Data File : 03092326.D
 Acq On : 10 Mar 2023 11:05
 Operator : KM
 Sample : AS01454
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 208 Sample Multiplier: 1

APL 3/10/23

Quant Time: Mar 10 11:30:31 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.734	130	57260	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.901	114	205906	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	30079	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.550	65	89326	1017.59	pg	0.00
Spiked Amount 1000.000			Recovery	=	101.76%	
57) Toluene-d8 (SS2)	12.697	98	179826	845.89	pg	0.00
Spiked Amount 1000.000			Recovery	=	84.59%	
74) Bromofluorobenzene (SS3)	16.228	174	79381	945.98	pg	0.00
Spiked Amount 1000.000			Recovery	=	94.60%	
Target Compounds						Qvalue
3] * Dichlorodifluoromethane	3.729	85	3010	30.969	pg	100
4] * Chloromethane	3.856	50	894	20.025	pg	96
5] * 1,2-Dichloro-1,1,2,2...	3.946	85	99	1.646	pg	# 42
7] * 1,3-Butadiene	4.157	54	15	0.421	pg	# 5
8] * Bromomethane	4.367	94	147	4.309	pg	# 76
9] * Chloroethane	4.507	64	317	10.225	pg	95
10] * Ethanol	4.606	45	15348	751.809	pg	98
11] * Acetonitrile	4.778	41	1627	22.140	pg	90
12] * Acrolein	4.884	56	1441	49.139	pg	99
13] * Acetone	5.008	58	11268	285.361	pg	94
14] * Trichlorofluoromethane	5.132	101	1793	14.453	pg	100
15] * 2-Propanol (Isopropa...	5.213	45	2664	75.763	pg	97
16] * Acrylonitrile	5.362	53	339	6.182	pg	96
18] tert-Butanol	5.759	59	553	10.493	pg	# 55
19] * Methylene Chloride	5.744	84	3576	59.527	pg	99
21] * Trichlorotrifluoroet...	5.992	151	373	5.924	pg	100
22] * Carbon Disulfide	6.016	76	2214	10.878	pg	100
26] * Vinyl Acetate	6.893	86	1130	258.645	pg	# 1
27] * 2-Butanone (MEK)	7.174	72	1586	43.472	pg	94
29] DIPE	7.838	45	546	4.030	pg	# 36
30] * Ethyl Acetate	7.838	61	708	64.764	pg	95
31] * n-Hexane	7.825	57	154	1.939	pg	# 53
32] * Chloroform	7.864	83	134	1.288	pg	98
34] * Tetrahydrofuran	8.349	71	61	1.946	pg	# 79
36] * 1,2-Dichloroethane	8.666	62	116	1.507	pg	# 42
39] * Benzene	9.490	78	1365	7.448	pg	100
42] * Carbon Tetrachloride	9.667	117	431	18.483	pg	97
46] * Bromodichloromethane	10.619	83	70	1.827	pg	# 18
47] * Trichloroethene	10.699	130	56	0.888	pg	# 1
48] * 1,4-Dioxane	10.757	88	176	3.595	pg	83
49] Isooctane	10.778	56	63	1.038	pg	88
51] * n-Heptane	11.083	71	58	1.072	pg	# 39
53] * 4-Methyl-2-pentanone	11.798	58	330	8.942	pg	99
58] * Toluene	12.810	91	1435	6.565	pg	99
59] * 2-Hexanone	13.179	58	117	2.786	pg	# 23
60] * Dibromochloromethane	13.260	129	69	3.453	pg	99
64] * Tetrachloroethene	14.109	166	52	0.799	pg	# 11
65] * Chlorobenzene	14.826	112	150	1.004	pg	# 42
66] * Ethylbenzene	15.220	91	328	1.387	pg	99
67] * m- & p-Xylenes	15.381	91	720	3.875	pg	100
68] * Bromoform	15.423	173	73	5.142	pg	# 26
70] * Styrene	15.721	104	334	2.643	pg	99
71] * o-Xylene	15.822	91	265	1.376	pg	100
75] * Cumene	16.363	105	93	0.358	pg	# 48

Data Path : I:\MS21\DATA\2023_03\09\
 Data File : 03092326.D
 Acq On : 10 Mar 2023 11:05
 Operator : KM
 Sample : AS01454
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 208 Sample Multiplier: 1

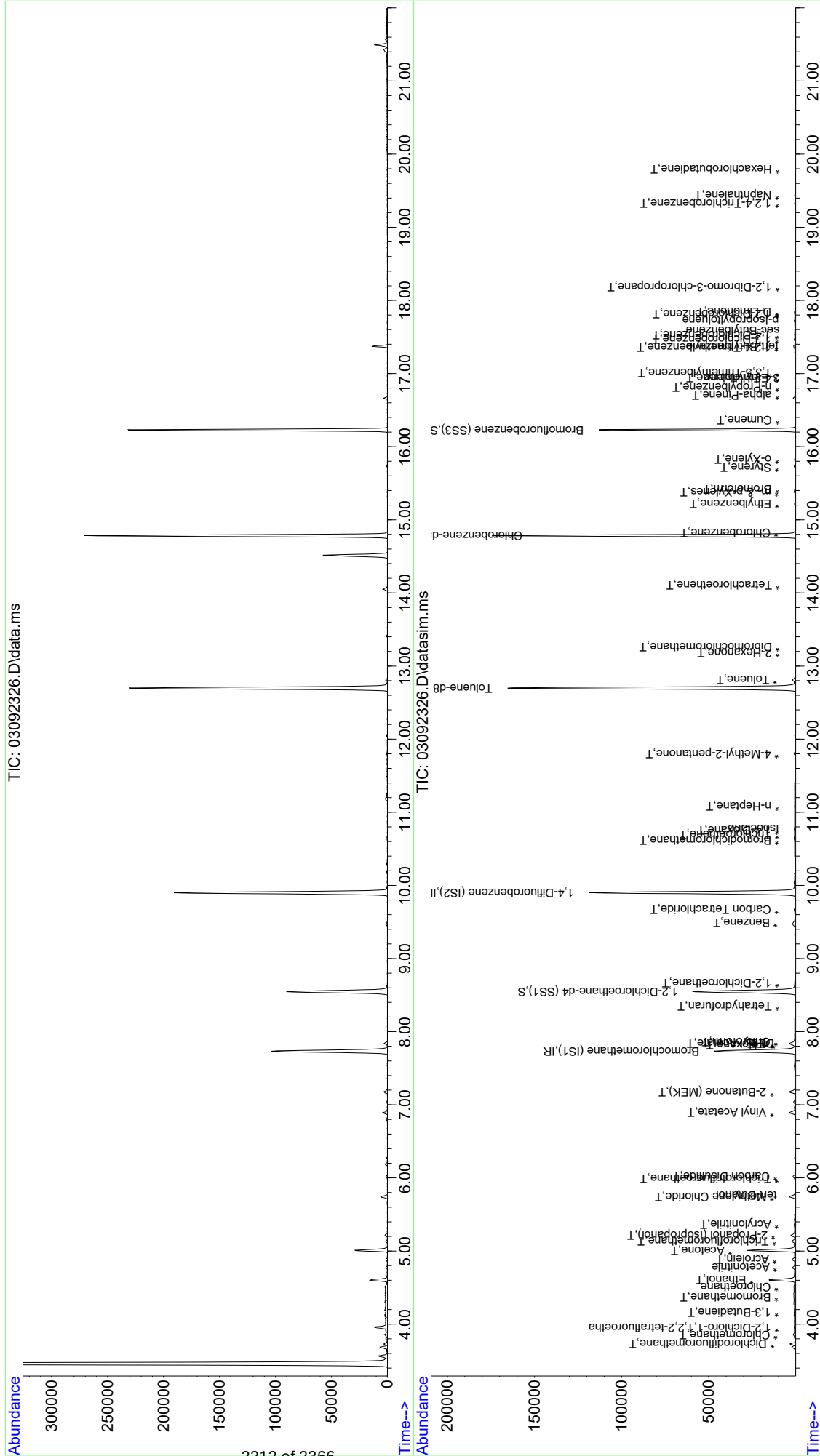
Quant Time: Mar 10 11:30:31 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76]	* alpha-Pinene	16.705	93	110	0.941	pg	# 83
77]	* n-Propylbenzene	16.812	91	165	0.571	pg	# 51
78]	3-Ethyltoluene	16.938	105	145	0.612	pg	# 44
79]	* 4-Ethyltoluene	16.938	105	142	0.616	pg	# 44
80]	* 1,3,5-Trimethylbenzene	17.011	105	104	0.507	pg	98
83]	tert-Butylbenzene	17.373	134	322	6.455	pg	# 1
84]	* 1,2,4-Trimethylbenzene	17.357	105	343	1.650	pg	92
86]	* 1,3-Dichlorobenzene	17.470	146	131	1.017	pg	99
87]	* 1,4-Dichlorobenzene	17.530	146	178	1.424	pg	92
89]	sec-Butylbenzene	17.584	105	67	0.229	pg	# 56
91]	p-Isopropyltoluene	17.724	119	255	1.027	pg	97
92]	* 1,2-Dichlorobenzene	17.816	146	103	0.775	pg	# 82
93]	* D-Limonene	17.843	68	121	3.337	pg	98
95]	* 1,2-Dibromo-3-chloro...	18.187	157	57	4.165	pg	# 14
97]	* 1,2,4-Trichlorobenzene	19.326	180	255	2.980	pg	100
98]	* Naphthalene	19.434	128	419	2.257	pg	96
100]	* Hexachlorobutadiene	19.792	225	137	1.724	pg	# 41

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

Data Path : I:\MS21\DATA\2023_03\09\
Data File : 03092326.D
Acq On : 10 Mar 2023 11:05
Operator : KM
Sample : AS01454
Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial : 208 Sample Multiplier: 1

Quant Time: Mar 10 11:30:31 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA T0-15
QLast Update : Wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data Path : I:\MS21\DATA\2023_03\10\
 Data File : 03102308.D
 Acq On : 10 Mar 2023 20:54
 Operator : KM
 Sample : AS01256_SFC00347,642,158,436,346 (24HR)
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 4 Sample Multiplier: 1

APL 3/13/23

Quant Time: Mar 13 06:55:31 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.728	130	53816	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.896	114	198135	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	25862	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.545	65	84430	1023.37	pg	0.00
Spiked Amount 1000.000			Recovery	=	102.34%	
57) Toluene-d8 (SS2)	12.697	98	165288	904.28	pg	0.00
Spiked Amount 1000.000			Recovery	=	90.43%	
74) Bromofluorobenzene (SS3)	16.228	174	66858	926.65	pg	0.00
Spiked Amount 1000.000			Recovery	=	92.66%	
Target Compounds						Qvalue
3] * Dichlorodifluoromethane	3.725	85	2002	21.916	pg	96
4] * Chloromethane	3.856	50	471	11.225	pg	94
5] * 1,2-Dichloro-1,1,2,2...	3.941	85	91	1.609	pg	# 42
7] * 1,3-Butadiene	4.152	54	35	1.045	pg	# 5
8] * Bromomethane	4.367	94	69	2.152	pg	# 3
9] * Chloroethane	4.502	64	57	1.956	pg	# 42
10] * Ethanol	4.596	45	5686	296.348	pg	99
11] * Acetonitrile	4.768	41	390	5.647	pg	94
12] * Acrolein	4.878	56	263	9.542	pg	99
13] * Acetone	5.002	58	4481	120.743	pg	96
14] * Trichlorofluoromethane	5.132	101	1180	10.121	pg	100
15] * 2-Propanol (Isopropa...	5.200	45	2035	61.578	pg	88
16] * Acrylonitrile	5.356	53	73	1.417	pg	86
18] tert-Butanol	5.749	59	267	5.390	pg	# 1
19] * Methylene Chloride	5.739	84	7853	139.089	pg	100
21] * Trichlorotrifluoroet...	5.992	151	265	4.478	pg	97
22] * Carbon Disulfide	6.016	76	2218	11.595	pg	99
25] * Methyl tert-Butyl Ether	6.882	73	55	0.383	pg	# 1
26] * Vinyl Acetate	6.887	86	116	28.250	pg	# 31
27] * 2-Butanone (MEK)	7.174	72	344	10.032	pg	81
29] DIPE	7.831	45	1677	13.171	pg	# 45
30] * Ethyl Acetate	7.831	61	1923	187.162	pg	95
31] * n-Hexane	7.818	57	378	5.064	pg	98
32] * Chloroform	7.864	83	145	1.483	pg	98
36] * 1,2-Dichloroethane	8.661	62	105	1.451	pg	# 1
38] * 1,1,1-Trichloroethane	8.967	97	57	1.175	pg	# 18
39] * Benzene	9.490	78	1499	8.500	pg	100
42] * Carbon Tetrachloride	9.667	117	271	12.077	pg	94
43] * Cyclohexane	9.823	84	148	2.162	pg	92
46] * Bromodichloromethane	10.619	83	81	2.198	pg	93
47] * Trichloroethene	10.691	130	74	1.220	pg	88
49] Isooctane	10.771	56	210	3.595	pg	70
50] * Methyl Methacrylate	10.960	69	65	2.747	pg	# 32
51] * n-Heptane	11.083	71	265	5.092	pg	92
53] * 4-Methyl-2-pentanone	11.798	58	128	3.604	pg	97
58] * Toluene	12.810	91	2719	14.467	pg	97
60] * Dibromochloromethane	13.254	129	76	4.424	pg	97
63] * n-Octane	14.000	85	120	2.897	pg	97
64] * Tetrachloroethene	14.109	166	74	1.323	pg	94
65] * Chlorobenzene	14.826	112	101	0.787	pg	# 42
66] * Ethylbenzene	15.220	91	466	2.292	pg	100
67] * m- & p-Xylenes	15.381	91	940	5.883	pg	98
68] * Bromoform	15.417	173	65	5.325	pg	# 26
70] * Styrene	15.721	104	186	1.712	pg	97

Data Path : I:\MS21\DATA\2023_03\10\
 Data File : 03102308.D
 Acq On : 10 Mar 2023 20:54
 Operator : KM
 Sample : AS01256_SFC00347,642,158,436,346 (24HR)
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 4 Sample Multiplier: 1

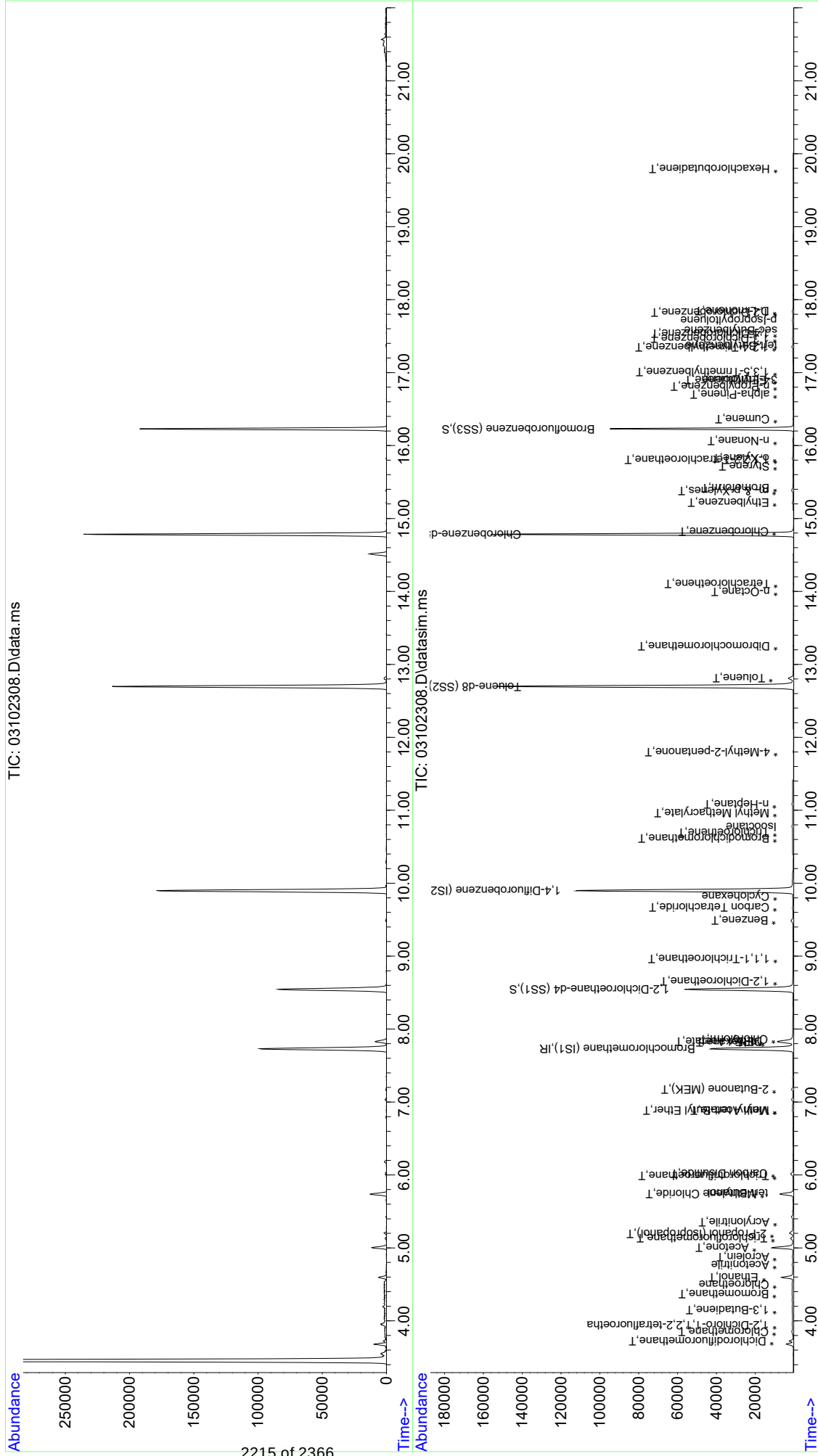
Quant Time: Mar 13 06:55:31 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71]	* o-Xylene	15.822	91	388	2.343	pg	100
72]	* n-Nonane	16.067	57	143	2.466	pg	94
73]	* 1,1,2,2-Tetrachloroe...	15.804	83	59	1.066	pg	# 18
75]	* Cumene	16.363	105	150	0.672	pg	# 48
76]	* alpha-Pinene	16.705	93	202	2.009	pg	# 82
77]	* n-Propylbenzene	16.812	91	204	0.821	pg	# 88
78]	3-Ethyltoluene	16.904	105	176	0.863	pg	90
79]	* 4-Ethyltoluene	16.904	105	176	0.888	pg	90
80]	* 1,3,5-Trimethylbenzene	17.006	105	129	0.731	pg	87
83]	tert-Butylbenzene	17.373	134	58	1.352	pg	# 50
84]	* 1,2,4-Trimethylbenzene	17.351	105	314	1.757	pg	94
86]	* 1,3-Dichlorobenzene	17.470	146	57	0.515	pg	# 18
87]	* 1,4-Dichlorobenzene	17.535	146	66	0.614	pg	# 80
89]	sec-Butylbenzene	17.584	105	116	0.460	pg	# 56
91]	p-Isopropyltoluene	17.718	119	195	0.914	pg	91
92]	* 1,2-Dichlorobenzene	17.821	146	51	0.446	pg	# 18
93]	* D-Limonene	17.843	68	148	4.747	pg	100
100]	* Hexachlorobutadiene	19.792	225	106	1.552	pg	# 41

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

Data Path : I:\MS21\DATA\2023_03\10\
Data File : 03102308.D
Acq On : 10 Mar 2023 20:54
Operator : KM
Sample : AS01256_SFC00347,642,158,436,346 (24HR)
Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 13 06:55:31 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA T0-15
QLast Update : Wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data Path : I:\MS21\DATA\2023_03\10\
 Data File : 03102333.D
 Acq On : 11 Mar 2023 15:40
 Operator : KM
 Sample : AS01356
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 215 Sample Multiplier: 1

APL 3/13/23

Quant Time: Mar 13 08:56:58 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.734	130	52077	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.901	114	176252	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	28631	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.545	65	82345	1031.42	pg	0.00
Spiked Amount 1000.000			Recovery	=	103.14%	
57) Toluene-d8 (SS2)	12.697	98	167104	825.80	pg	0.00
Spiked Amount 1000.000			Recovery	=	82.58%	
74) Bromofluorobenzene (SS3)	16.228	174	71562	895.93	pg	0.00
Spiked Amount 1000.000			Recovery	=	89.59%	
Target Compounds						Qvalue
3] * Dichlorodifluoromethane	3.725	85	3909	44.221	pg	100
4] * Chloromethane	3.851	50	918	22.609	pg	98
5] * 1,2-Dichloro-1,1,2,2...	3.941	85	333	6.086	pg	93
6] * Vinyl Chloride	4.037	62	139	2.873	pg	# 75
7] * 1,3-Butadiene	4.147	54	147	4.535	pg	# 1
8] * Bromomethane	4.367	94	307	9.895	pg	92
9] * Chloroethane	4.508	64	112	3.972	pg	# 42
10] * Ethanol	4.596	45	21335	1149.089	pg	99
11] * Acetonitrile	4.768	41	764	11.431	pg	86
12] * Acrolein	4.884	56	483	18.110	pg	99
13] * Acetone	5.002	58	10109	281.489	pg	81
14] * Trichlorofluoromethane	5.132	101	2577	22.840	pg	99
15] * 2-Propanol (Isopropa...	5.207	45	2944	92.059	pg	93
16] * Acrylonitrile	5.350	53	239	4.793	pg	91
17] * 1,1-Dichloroethene	5.652	96	129	2.406	pg	100
18] tert-Butanol	5.754	59	1234	25.745	pg	# 67
19] * Methylene Chloride	5.739	84	2699	49.400	pg	99
20] * 3-Chloro-1-propene (...)	5.856	41	85	2.470	pg	87
21] * Trichlorotrifluoroet...	5.992	151	663	11.578	pg	98
22] * Carbon Disulfide	6.017	76	5708	30.835	pg	100
23] * trans-1,2-Dichloroet...	6.581	96	148	2.724	pg	100
24] * 1,1-Dichloroethane	6.767	63	199	2.492	pg	100
25] * Methyl tert-Butyl Ether	6.888	73	240	1.729	pg	# 84
26] * Vinyl Acetate	6.893	86	380	95.634	pg	# 1
27] * 2-Butanone (MEK)	7.174	72	1106	33.332	pg	83
28] * cis-1,2-Dichloroethene	7.572	96	137	2.376	pg	98
29] DIPE	7.831	45	893	7.248	pg	# 73
30] * Ethyl Acetate	7.831	61	694	69.801	pg	95
31] * n-Hexane	7.818	57	306	4.237	pg	99
32] * Chloroform	7.864	83	474	5.010	pg	99
34] * Tetrahydrofuran	8.349	71	144	5.050	pg	88
35] ETBE	8.430	87	174	3.597	pg	100
36] * 1,2-Dichloroethane	8.671	62	282	4.027	pg	90
38] * 1,1,1-Trichloroethane	8.972	97	254	5.886	pg	98
39] * Benzene	9.490	78	1688	10.760	pg	98
42] * Carbon Tetrachloride	9.662	117	681	34.117	pg	100
43] * Cyclohexane	9.818	84	302	4.960	pg	91
44] TAME	10.237	87	140	5.476	pg	93
45] * 1,2-Dichloropropane	10.416	63	125	3.568	pg	92
46] * Bromodichloromethane	10.626	83	339	10.339	pg	92
47] * Trichloroethene	10.691	130	216	4.002	pg	98
48] * 1,4-Dioxane	10.764	88	165	3.938	pg	# 58
49] Isooctane	10.778	56	306	5.888	pg	78
50] * Methyl Methacrylate	10.960	69	247	11.736	pg	89

Data Path : I:\MS21\DATA\2023_03\10\
 Data File : 03102333.D
 Acq On : 11 Mar 2023 15:40
 Operator : KM
 Sample : AS01356
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 215 Sample Multiplier: 1

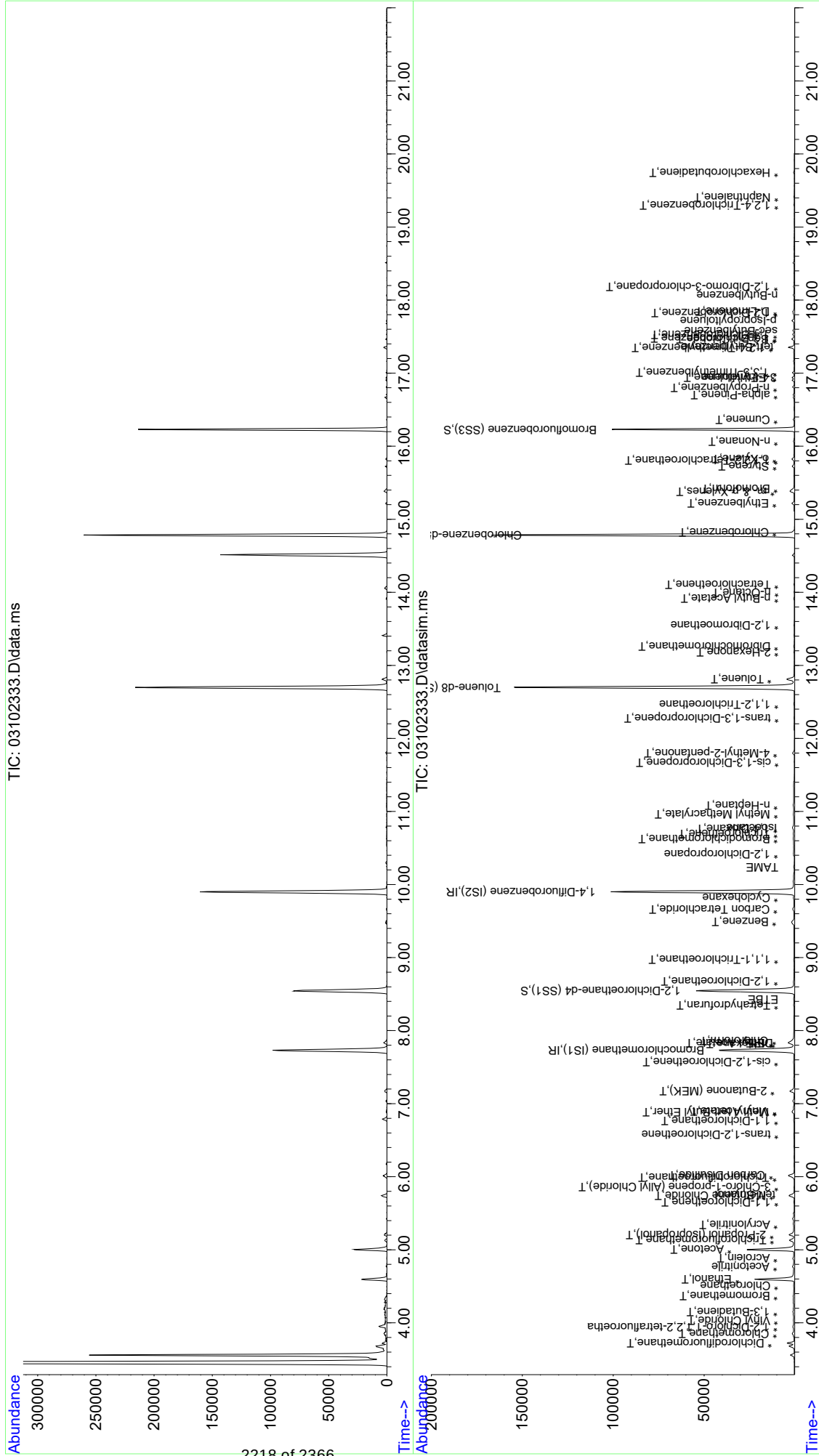
Quant Time: Mar 13 08:56:58 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51]	* n-Heptane	11.083	71	192	4.147	pg	98
52]	* cis-1,3-Dichloropropene	11.675	75	111	3.689	pg	# 11
53]	* 4-Methyl-2-pentanone	11.798	58	530	16.778	pg	95
54]	* trans-1,3-Dichloropr...	12.280	75	90	4.031	pg	# 42
55]	* 1,1,2-Trichloroethane	12.470	97	136	3.606	pg	100
58]	* Toluene	12.810	91	4617	22.191	pg	98
59]	* 2-Hexanone	13.179	58	263	6.580	pg	99
60]	* Dibromochloromethane	13.260	129	289	15.195	pg	99
61]	* 1,2-Dibromoethane	13.547	107	138	5.209	pg	90
62]	* n-Butyl Acetate	13.912	56	381	27.264	pg	95
63]	* n-Octane	14.000	85	119	2.595	pg	94
64]	* Tetrachloroethene	14.104	166	238	3.844	pg	99
65]	* Chlorobenzene	14.826	112	445	3.131	pg	94
66]	* Ethylbenzene	15.220	91	1285	5.709	pg	99
67]	* m- & p-Xylenes	15.381	91	3278	18.532	pg	99
68]	* Bromoform	15.423	173	201	14.874	pg	96
70]	* Styrene	15.727	104	939	7.805	pg	99
71]	* o-Xylene	15.822	91	1092	5.957	pg	98
72]	* n-Nonane	16.067	57	203	3.162	pg	94
73]	* 1,1,2,2-Tetrachloroe...	15.804	83	227	3.706	pg	98
75]	* Cumene	16.363	105	535	2.166	pg	97
76]	* alpha-Pinene	16.700	93	362	3.252	pg	# 82
77]	* n-Propylbenzene	16.807	91	799	2.904	pg	100
78]	3-Ethyltoluene	16.938	105	821	3.638	pg	100
79]	* 4-Ethyltoluene	16.938	105	821	3.743	pg	100
80]	* 1,3,5-Trimethylbenzene	17.006	105	614	3.142	pg	98
83]	tert-Butylbenzene	17.357	134	125	2.633	pg	97
84]	* 1,2,4-Trimethylbenzene	17.352	105	1910	9.652	pg	92
85]	* Benzyl Chloride	17.465	126	67	9.635	pg	71
86]	* 1,3-Dichlorobenzene	17.476	146	250	2.039	pg	97
87]	* 1,4-Dichlorobenzene	17.530	146	433	3.640	pg	95
89]	sec-Butylbenzene	17.584	105	451	1.616	pg	96
91]	p-Isopropyltoluene	17.719	119	595	2.519	pg	99
92]	* 1,2-Dichlorobenzene	17.821	146	264	2.086	pg	98
93]	* D-Limonene	17.843	68	268	7.765	pg	88
94]	n-Butylbenzene	18.070	134	176	3.119	pg	# 57
95]	* 1,2-Dibromo-3-chloro...	18.187	157	250	19.191	pg	97
97]	* 1,2,4-Trichlorobenzene	19.303	180	150	1.842	pg	99
98]	* Naphthalene	19.411	128	220	1.245	pg	# 68
100]	* Hexachlorobutadiene	19.745	225	349	4.615	pg	99

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

Data Path : I:\MS21\DATA\2023_03\10\
Data File : 03102333.D
Acq On : 11 Mar 2023 15:40
Operator : KM
Sample : AS01356
Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial : 215 Sample Multiplier: 1

Quant Time: Mar 13 08:56:58 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA TO-15
QLast Update : Wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data File: I:\MS09\DATA\2023_03\06\03062330.D

Sample : AS01284_30697

Acq On : 6 Mar 2023 22:13

Misc : S35-02212305

ALS Vial : 6 Sample Multiplier: 1

Inst : MS09

Operator: SC

KM 3/7/23

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

Quant Time: Mar 07 08:33:46 2023

Quant Method : I:\MS09\METHODS\R9022723.M

QLast Update : Tue Feb 28 08:30:18 2023

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.19	130	183264	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	9.26	114	814459	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.80	54	181385	12.500	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.96	65	386603	12.461	ng	-0.04
Spiked Amount	12.500	Range	70 - 130	Recovery	=	99.68%
57) Toluene-d8 (SS2)	12.39	98	959045	13.915	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	111.28%
73) Bromofluorobenzene (SS3)	16.79	174	306540	10.907	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	87.28%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	3.38	85	361	N.D.		
4) Chloromethane	0.00	50	0	N.D.	d	
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	3.88	94	372	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	4.31	45	1550	0.089	ng	74
11) Acetonitrile	4.49	41	398	N.D.		
12) Acrolein	4.55	56	70	N.D.		
13) Acetone	4.65	58	2411	0.183	ng	# 81
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) 2-Propanol (Isopropanol)	4.89	45	2452	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	5.40	59	639	N.D.		
19) Methylene Chloride	5.33	84	370	N.D.		
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	5.60	76	1172	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	6.29	63	426	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone (MEK)	0.00	72	0	N.D.		
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	0.00	57	0	N.D.		
32) Chloroform	0.00	83	0	N.D.		
34) Tetrahydrofuran (THF)	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	8.87	78	979	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	9.26	84	553	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File: I:\MS09\DATA\2023_03\06\03062330.D

Sample : AS01284_30697

Acq On : 6 Mar 2023 22:13

Misc : S35-02212305

ALS Vial : 6 Sample Multiplier: 1

Inst : MS09

Operator: SC

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

Quant Time: Mar 07 08:33:46 2023

Quant Method : I:\MS09\METHODS\R9022723.M

QLast Update : Tue Feb 28 08:30:18 2023

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.53	91	728	N.D.		
59) 2-Hexanone	0.00	43	0	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	0.00	43	0	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	15.38	91	370	N.D.		
67) m- & p-Xylenes	15.61	91	431	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	16.21	91	213	N.D.		
71) n-Nonane	16.57	43	417	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	17.00	105	145	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	17.65	91	366	N.D.		
77) 3-Ethyltoluene	17.00	105	145	No Calib	#	
78) 4-Ethyltoluene	17.84	105	295	N.D.		
79) 1,3,5-Trimethylbenzene	17.93	105	117	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.00	105	145	No Calib	#	
82) 1,2,4-Trimethylbenzene	18.41	105	286	N.D.		
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
86) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
87) sec-Butylbenzene	18.72	105	399	N.D.		
88) 4-Isopropyltoluene (p-...	18.90	119	1277	N.D.		
89) 1,2,3-Trimethylbenzene	17.00	105	145	No Calib	#	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	0.00	68	0	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	20.83	180	199	N.D.		
95) Naphthalene	20.93	128	339	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	0.00	119	0	N.D.		
100) n-Butylbenzene	19.37	91	337	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File: I:\MS09\DATA\2023_03\06\03062330.D

Sample : AS01284_30697

Acq On : 6 Mar 2023 22:13

Misc : S35-02212305

ALS Vial : 6 Sample Multiplier: 1

Inst : MS09

Operator: SC

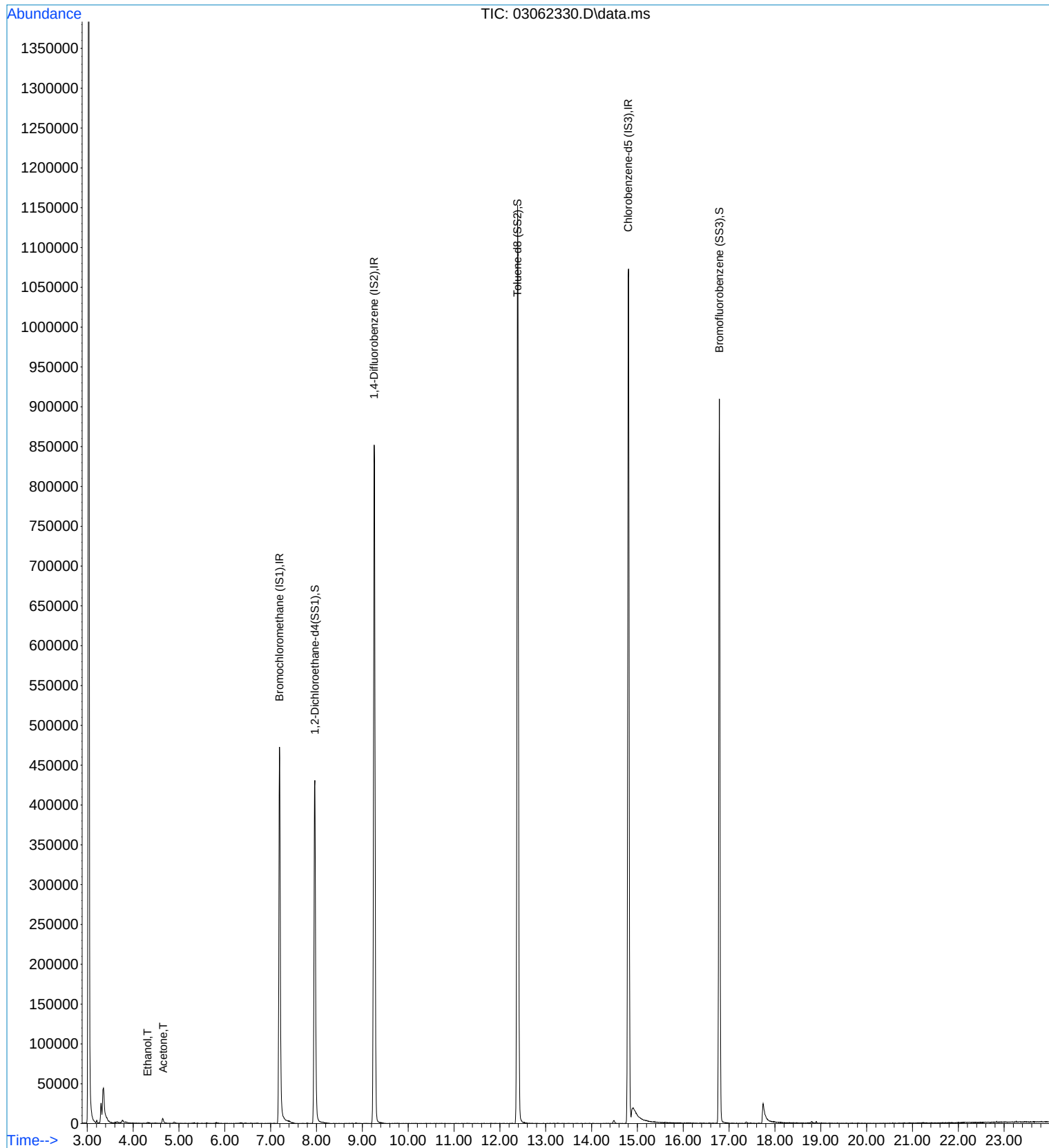
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

Quant Time: Mar 07 08:33:46 2023

Quant Method : I:\MS09\METHODS\R9022723.M

QLast Update : Tue Feb 28 08:30:18 2023

Response via : Initial Calibration



Data File : I:\MS09\DATA\2023_03\08\03082312.D
 Acq On : 8 Mar 2023 16:01
 Sample : AS01226_30709
 Misc : S35-02212305

Vial: 14
 Operator: SC
 Inst : MS09

Quant Time: Mar 08 16:22:46 2023

Quant Method : I:\MS09\METHODS\R9022723.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Tue Feb 28 08:30:18 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

 3/8/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.20	130	176164	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	9.26	114	778089	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.80	54	177867	12.500	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.96	65	376226	12.615	ng	-0.04
Spiked Amount	12.500	Range	70 - 130	Recovery	=	100.88%
57) Toluene-d8 (SS2)	12.39	98	914371	13.529	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	108.24%
73) Bromofluorobenzene (SS3)	16.79	174	296890	10.773	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	86.16%

Target Compounds

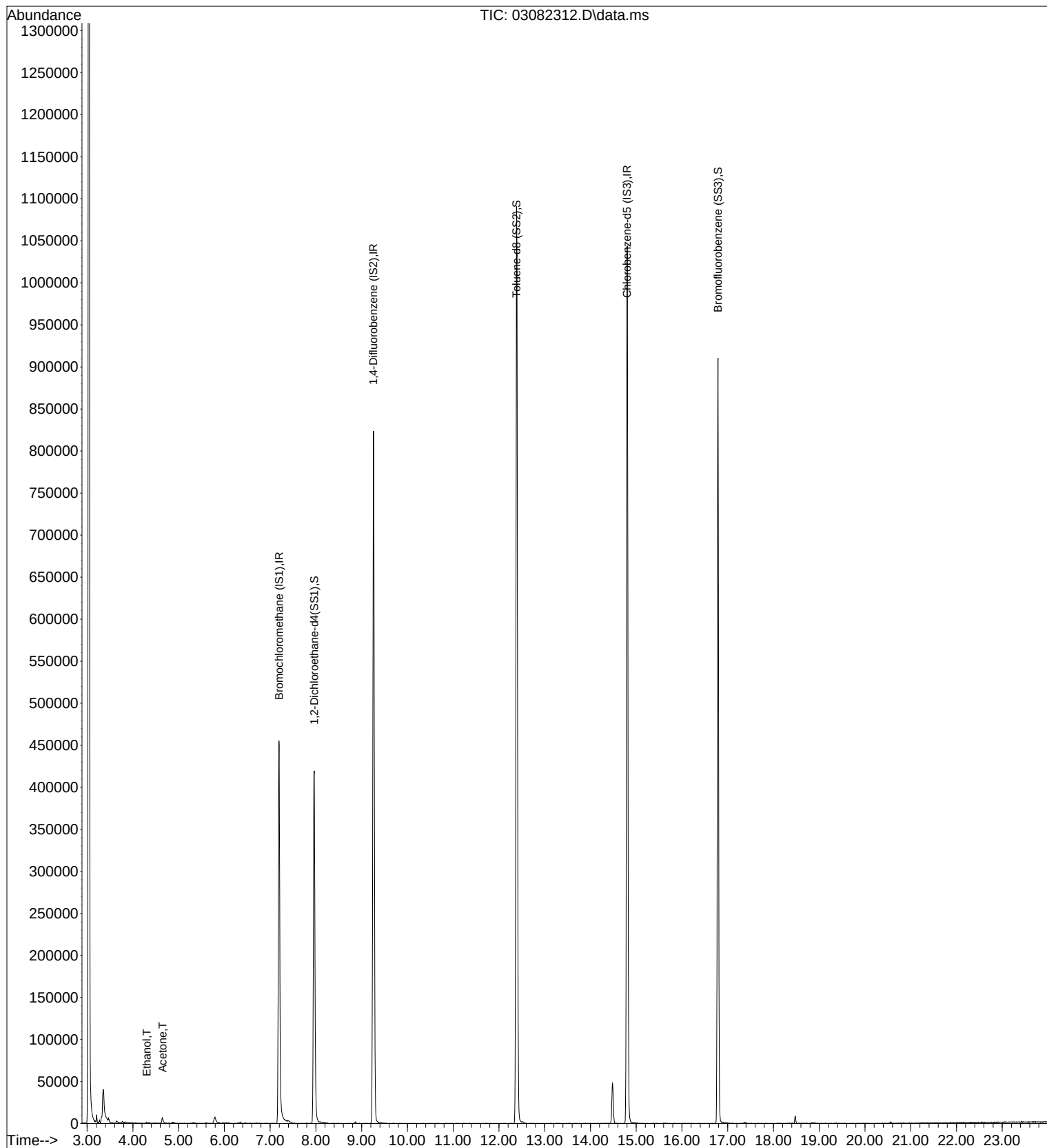
					Qvalue
10) Ethanol	4.31	45	1561	0.093 ng	88
13) Acetone	4.65	58	2193	0.173 ng	94

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

Data File : I:\MS09\DATA\2023_03\08\03082312.D
Acq On : 8 Mar 2023 16:01
Sample : AS01226_30709
Misc : S35-02212305

Vial: 14
Operator: SC
Inst : MS09

Quant Time: Mar 08 16:22:46 2023
Quant Method : I:\MS09\METHODS\R9022723.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Tue Feb 28 08:30:18 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data Path : I:\MS21\DATA\2023_03\09\
 Data File : 03092328.D
 Acq On : 10 Mar 2023 12:35
 Operator : KM
 Sample : AS00657
 Misc : LL (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 211 Sample Multiplier: 1

APL 3/13/23

Quant Time: Mar 13 06:21:26 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.734	130	55640	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.901	114	186844	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	32661	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.550	65	85993	1008.14	pg	0.00
Spiked Amount 1000.000			Recovery	=	100.81%	
57) Toluene-d8 (SS2)	12.697	98	183544	795.13	pg	0.00
Spiked Amount 1000.000			Recovery	=	79.51%	
74) Bromofluorobenzene (SS3)	16.228	174	87056	955.42	pg	0.00
Spiked Amount 1000.000			Recovery	=	95.54%	
Target Compounds						Qvalue
3] * Dichlorodifluoromethane	3.729	85	353	3.738	pg	98
4] * Chloromethane	3.856	50	479	11.042	pg	98
7] * 1,3-Butadiene	4.127	54	20	0.578	pg	# 1
8] * Bromomethane	4.372	94	179	5.400	pg	99
9] * Chloroethane	4.518	64	301	9.992	pg	97
10] * Ethanol	4.601	45	2577	129.908	pg	97
11] * Acetonitrile	4.768	41	1558	21.819	pg	99
12] * Acrolein	4.884	56	3807	133.600	pg	97
13] * Acetone	5.008	58	29663	773.084	pg	73
14] * Trichlorofluoromethane	5.132	101	207	1.717	pg	96
15] * 2-Propanol (Isopropa...	5.207	45	2020	59.120	pg	91
16] * Acrylonitrile	5.356	53	153	2.872	pg	95
18] tert-Butanol	5.749	59	475	9.275	pg	# 91
19] * Methylene Chloride	5.739	84	469	8.034	pg	99
21] * Trichlorotrifluoroet...	5.997	151	50	0.817	pg	# 18
22] * Carbon Disulfide	6.021	76	24055	121.625	pg	99
26] * Vinyl Acetate	6.892	86	1861	438.365	pg	# 1
27] * 2-Butanone (MEK)	7.169	72	7806	220.191	pg	88
29] DIPE	7.838	45	316	2.400	pg	# 36
30] * Ethyl Acetate	7.831	61	405	38.126	pg	98
31] * n-Hexane	7.825	57	109	1.412	pg	# 53
32] * Chloroform	7.877	83	110	1.088	pg	# 83
34] * Tetrahydrofuran	8.349	71	259	8.501	pg	96
39] * Benzene	9.490	78	3723	22.386	pg	99
46] * Bromodichloromethane	10.626	83	57	1.640	pg	# 18
47] * Trichloroethene	10.691	130	74	1.293	pg	96
48] * 1,4-Dioxane	10.728	88	11719	263.823	pg	# 80
49] Isooctane	10.720	56	334	6.063	pg	# 1
51] * n-Heptane	11.090	71	62	1.263	pg	# 39
53] * 4-Methyl-2-pentanone	11.793	58	318	9.496	pg	92
58] * Toluene	12.810	91	2092	8.814	pg	98
59] * 2-Hexanone	13.168	58	289	6.338	pg	97
60] * Dibromochloromethane	13.265	129	53	2.443	pg	# 11
62] * n-Butyl Acetate	13.907	56	58	3.638	pg	# 30
65] * Chlorobenzene	14.826	112	225	1.388	pg	# 86
66] * Ethylbenzene	15.214	91	249	0.970	pg	96
67] * m- & p-Xylenes	15.381	91	969	4.802	pg	97
68] * Bromoform	15.423	173	67	4.346	pg	# 26
70] * Styrene	15.727	104	381	2.776	pg	100
71] * o-Xylene	15.822	91	238	1.138	pg	# 55
72] * n-Nonane	16.073	57	55	0.751	pg	# 28
73] * 1,1,2,2-Tetrachloroe...	15.804	83	57	0.816	pg	# 18
75] * Cumene	16.363	105	105	0.373	pg	# 48
76] * alpha-Pinene	16.705	93	62	0.488	pg	# 30

Data Path : I:\MS21\DATA\2023_03\09\
 Data File : 03092328.D
 Acq On : 10 Mar 2023 12:35
 Operator : KM
 Sample : AS00657
 Misc : LL (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 211 Sample Multiplier: 1

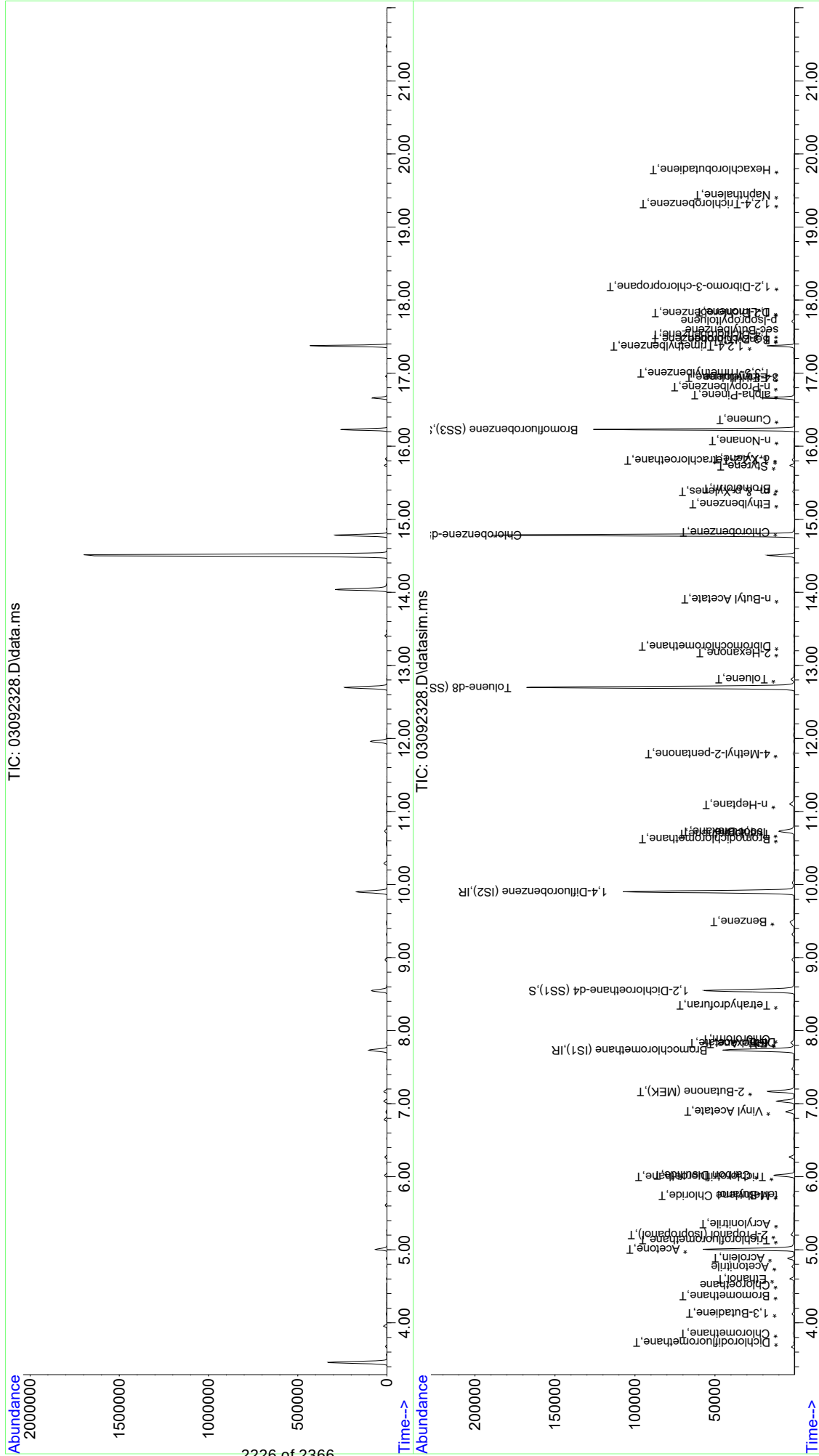
Quant Time: Mar 13 06:21:26 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77]	* n-Propylbenzene	16.812	91	360	1.147	pg	# 78
78]	3-Ethyltoluene	16.938	105	148	0.575	pg	# 44
79]	* 4-Ethyltoluene	16.938	105	148	0.592	pg	# 44
80]	* 1,3,5-Trimethylbenzene	17.001	105	120	0.538	pg	90
84]	* 1,2,4-Trimethylbenzene	17.373	105	2119	9.387	pg	92
85]	* Benzyl Chloride	17.459	126	58	7.312	pg	79
86]	* 1,3-Dichlorobenzene	17.470	146	165	1.180	pg	95
87]	* 1,4-Dichlorobenzene	17.530	146	189	1.393	pg	100
89]	sec-Butylbenzene	17.584	105	99	0.311	pg	# 56
91]	p-Isopropyltoluene	17.718	119	369	1.369	pg	93
92]	* 1,2-Dichlorobenzene	17.821	146	121	0.838	pg	93
93]	* D-Limonene	17.837	68	234	5.944	pg	89
95]	* 1,2-Dibromo-3-chloro...	18.187	157	51	3.432	pg	# 14
97]	* 1,2,4-Trichlorobenzene	19.321	180	247	2.658	pg	99
98]	* Naphthalene	19.434	128	415	2.059	pg	94
100]	* Hexachlorobutadiene	19.788	225	119	1.379	pg	# 41

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

Data Path : I:\MS21\DATA\2023_03\09\
Data File : 03092328.D
Acq On : 10 Mar 2023 12:35
Operator : KM
Sample : AS00657
Misc : LL (Sig #1); S35-02272301 (Sig #2)
ALS Vial : 211 Sample Multiplier: 1

Quant Time: Mar 13 06:21:26 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA T0-15
QLast Update : wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data Path : I:\MS21\DATA\2023_03\07\
 Data File : 03072316.D
 Acq On : 7 Mar 2023 20:26
 Operator : KM
 Sample : AC02268
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 7 Sample Multiplier: 1

APL 3/8/23

Quant Time: Mar 08 06:49:44 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.728	130	51030	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.901	114	171839	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	28911	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.545	65	82350	1052.65	pg	0.00
Spiked Amount 1000.000			Recovery	=	105.27%	
57) Toluene-d8 (SS2)	12.697	98	166827	816.45	pg	0.00
Spiked Amount 1000.000			Recovery	=	81.64%	
74) Bromofluorobenzene (SS3)	16.228	174	73606	912.59	pg	0.00
Spiked Amount 1000.000			Recovery	=	91.26%	
Target Compounds						Qvalue
3] * Dichlorodifluoromethane	3.720	85	5683	65.609	pg	99
4] * Chloromethane	3.851	50	1108	27.848	pg	97
5] * 1,2-Dichloro-1,1,2,2...	3.941	85	201	3.749	pg	99
7] * 1,3-Butadiene	4.147	54	33	1.039	pg	# 5
8] * Bromomethane	4.362	94	70	2.302	pg	# 78
9] * Chloroethane	4.502	64	123	4.452	pg	# 42
10] * Ethanol	4.596	45	21441	1178.492	pg	99
11] * Acetonitrile	4.768	41	1054	16.094	pg	96
12] * Acrolein	4.878	56	384	14.693	pg	100
13] * Acetone	5.002	58	7000	198.917	pg	84
14] * Trichlorofluoromethane	5.126	101	3378	30.554	pg	100
15] * 2-Propanol (Isopropa...	5.200	45	3921	125.125	pg	94
16] * Acrylonitrile	5.356	53	70	1.432	pg	87
18] tert-Butanol	5.754	59	479	10.198	pg	# 55
19] * Methylene Chloride	5.734	84	1743	32.557	pg	99
21] * Trichlorotrifluoroet...	5.987	151	694	12.368	pg	98
22] * Carbon Disulfide	6.016	76	3181	17.537	pg	99
26] * Vinyl Acetate	6.888	86	253	64.979	pg	# 7
27] * 2-Butanone (MEK)	7.169	72	509	15.655	pg	81
30] * Ethyl Acetate	7.825	61	6644	681.951	pg	94
31] * n-Hexane	7.818	57	254	3.589	pg	# 62
32] * Chloroform	7.864	83	209	2.255	pg	94
36] * 1,2-Dichloroethane	8.666	62	83	1.210	pg	# 42
39] * Benzene	9.484	78	1835	11.997	pg	98
42] * Carbon Tetrachloride	9.662	117	769	39.515	pg	98
43] * Cyclohexane	9.818	84	99	1.668	pg	94
46] * Bromodichloromethane	10.626	83	58	1.814	pg	# 18
48] * 1,4-Dioxane	10.757	88	103	2.521	pg	89
49] Isooctane	10.778	56	241	4.756	pg	# 41
51] * n-Heptane	11.083	71	101	2.238	pg	# 39
53] * 4-Methyl-2-pentanone	11.798	58	313	10.163	pg	99
58] * Toluene	12.810	91	3620	17.230	pg	99
59] * 2-Hexanone	13.179	58	115	2.849	pg	# 48
60] * Dibromochloromethane	13.260	129	88	4.582	pg	97
62] * n-Butyl Acetate	13.917	56	64	4.535	pg	# 30
64] * Tetrachloroethene	14.104	166	102	1.632	pg	97
65] * Chlorobenzene	14.826	112	103	0.718	pg	# 42
66] * Ethylbenzene	15.214	91	567	2.495	pg	98
67] * m- & p-Xylenes	15.381	91	1319	7.385	pg	98
68] * Bromoform	15.423	173	80	5.862	pg	# 26
70] * Styrene	15.721	104	231	1.902	pg	99
71] * o-Xylene	15.822	91	496	2.679	pg	99
72] * n-Nonane	16.067	57	64	0.987	pg	# 28
75] * Cumene	16.363	105	111	0.445	pg	# 48

Data Path : I:\MS21\DATA\2023_03\07\
 Data File : 03072316.D
 Acq On : 7 Mar 2023 20:26
 Operator : KM
 Sample : AC02268
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 08 06:49:44 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
76]	* alpha-Pinene	16.705	93	190	1.690	pg	#	84
77]	* n-Propylbenzene	16.807	91	206	0.741	pg	#	51
78]	3-Ethyltoluene	16.938	105	203	0.891	pg		98
79]	* 4-Ethyltoluene	16.938	105	203	0.917	pg		96
80]	* 1,3,5-Trimethylbenzene	17.006	105	152	0.770	pg		94
83]	tert-Butylbenzene	17.373	134	58	1.210	pg	#	14
84]	* 1,2,4-Trimethylbenzene	17.352	105	410	2.052	pg		90
86]	* 1,3-Dichlorobenzene	17.530	146	80	0.646	pg		88
87]	* 1,4-Dichlorobenzene	17.530	146	85	0.708	pg		89
89]	sec-Butylbenzene	17.589	105	71	0.252	pg	#	56
91]	p-Isopropyltoluene	17.719	119	271	1.136	pg		96
92]	* 1,2-Dichlorobenzene	17.816	146	70	0.548	pg	#	18
93]	* D-Limonene	17.843	68	321	9.211	pg		89
97]	* 1,2,4-Trichlorobenzene	19.326	180	101	1.228	pg		94
98]	* Naphthalene	19.435	128	209	1.172	pg	#	68
100]	* Hexachlorobutadiene	19.797	225	120	1.571	pg	#	41

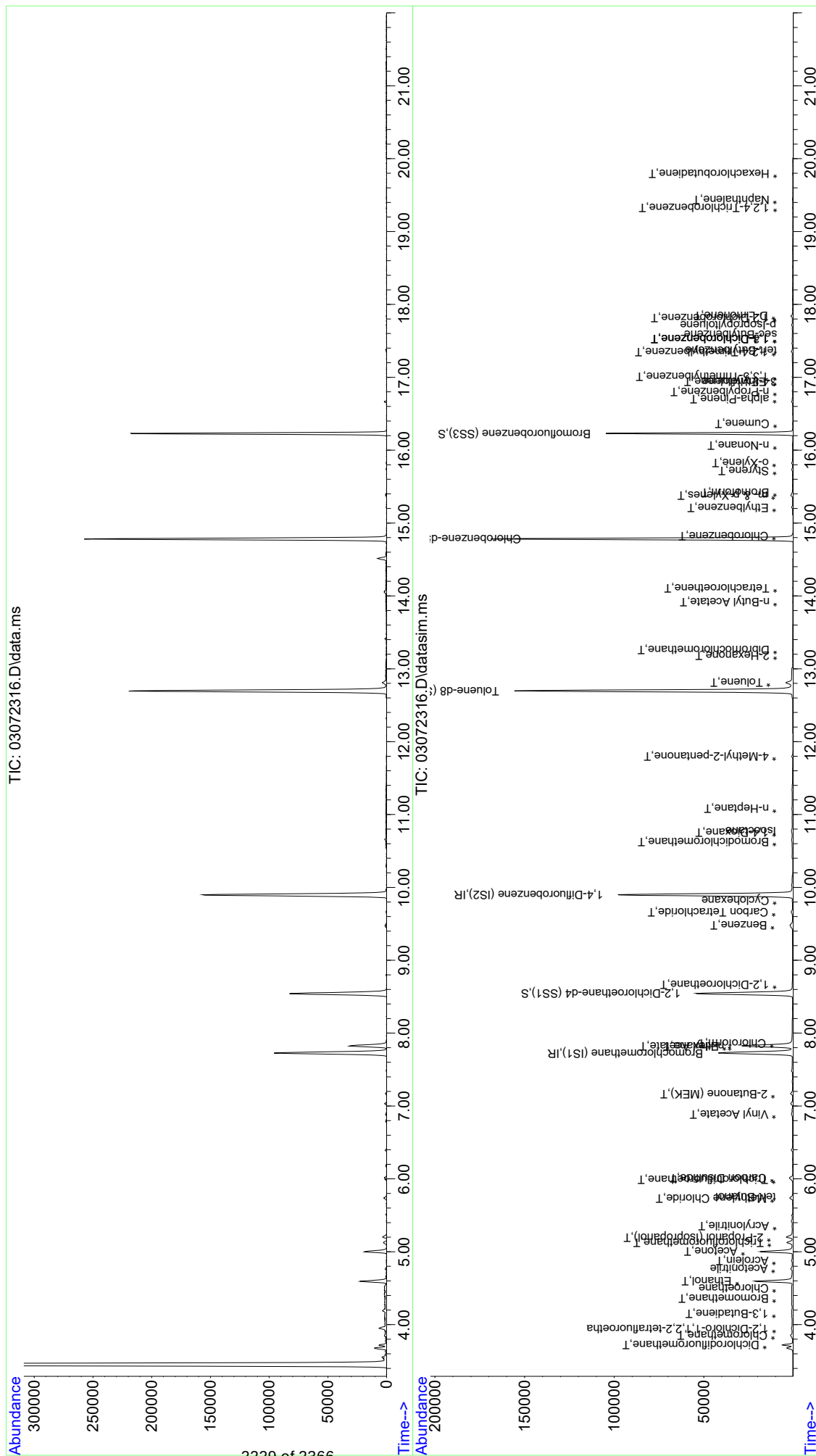
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data Path      : I:\MS21\DATA\2023_03\07\
Data File     : 03072316.D
Acq On       : 7 Mar 2023 20:26
Operator      : KM
Sample        : AC02268
Msc           : LL + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial     : 7 Sample Multiplier: 1

```

Quant Time: Mar 08 06:49:44 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA 10-15
QLast Update : wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data Path : I:\MS21\DATA\2023_03\09\
 Data File : 03092323.D
 Acq On : 10 Mar 2023 8:49
 Operator : KM
 Sample : SC00778
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 204 Sample Multiplier: 1

APL 3/10/23

Quant Time: Mar 10 10:53:56 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.734	130	57429	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.901	114	204870	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	32979	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.545	65	89600	1017.71	pg	0.00
Spiked Amount 1000.000			Recovery =	101.77%		
57) Toluene-d8 (SS2)	12.697	98	190882	818.94	pg	0.00
Spiked Amount 1000.000			Recovery =	81.89%		
74) Bromofluorobenzene (SS3)	16.228	174	84950	923.32	pg	0.00
Spiked Amount 1000.000			Recovery =	92.33%		
Target Compounds						Qvalue
3] * Dichlorodifluoromethane	3.725	85	1836	18.835	pg	97
4] * Chloromethane	3.856	50	1630	36.403	pg	99
5] * 1,2-Dichloro-1,1,2,2...	3.946	85	65	1.077	pg	# 42
7] * 1,3-Butadiene	4.152	54	36	1.007	pg	# 1
8] * Bromomethane	4.362	94	93	2.718	pg	84
9] * Chloroethane	4.508	64	182	5.853	pg	100
10] * Ethanol	4.601	45	14450	705.738	pg	98
11] * Acetonitrile	4.768	41	1098	14.898	pg	93
12] * Acrolein	4.878	56	2981	101.354	pg	98
13] * Acetone	5.002	58	29006	732.412	pg	97
14] * Trichlorofluoromethane	5.132	101	1160	9.323	pg	99
15] * 2-Propanol (Isopropa...	5.200	45	5642	159.983	pg	96
16] * Acrylonitrile	5.356	53	141	2.564	pg	97
18] tert-Butanol	5.744	59	1351	25.559	pg	# 60
19] * Methylene Chloride	5.739	84	2578	42.788	pg	99
21] * Trichlorotrifluoroet...	5.992	151	265	4.196	pg	96
22] * Carbon Disulfide	6.016	76	19939	97.674	pg	99
24] * 1,1-Dichloroethane	6.777	63	78	0.886	pg	# 42
26] * Vinyl Acetate	6.888	86	1673	381.805	pg	# 1
27] * 2-Butanone (MEK)	7.169	72	3534	96.581	pg	91
29] DIPE	7.831	45	739	5.439	pg	# 36
30] * Ethyl Acetate	7.831	61	930	84.820	pg	92
31] * n-Hexane	7.818	57	121	1.519	pg	# 53
32] * Chloroform	7.864	83	122	1.169	pg	91
34] * Tetrahydrofuran	8.344	71	277	8.809	pg	# 61
36] * 1,2-Dichloroethane	8.666	62	109	1.411	pg	# 1
39] * Benzene	9.484	78	2044	11.209	pg	100
42] * Carbon Tetrachloride	9.667	117	214	9.223	pg	96
44] TAME	10.179	87	90	3.029	pg	# 1
46] * Bromodichloromethane	10.619	83	71	1.863	pg	# 18
47] * Trichloroethene	10.699	130	999	15.925	pg	99
48] * 1,4-Dioxane	10.742	88	3702	76.008	pg	83
49] Isooctane	10.786	56	122	2.020	pg	# 1
50] * Methyl Methacrylate	10.952	69	96	3.924	pg	# 32
51] * n-Heptane	11.090	71	92	1.710	pg	# 39
53] * 4-Methyl-2-pentanone	11.787	58	592	16.123	pg	100
58] * Toluene	12.810	91	3716	15.505	pg	98
59] * 2-Hexanone	13.168	58	1065	23.132	pg	99
60] * Dibromochloromethane	13.255	129	74	3.378	pg	97
62] * n-Butyl Acetate	13.907	56	154	9.567	pg	92
63] * n-Octane	14.000	85	52	0.985	pg	# 16
64] * Tetrachloroethene	14.109	166	276	3.870	pg	99
65] * Chlorobenzene	14.826	112	197	1.203	pg	97
66] * Ethylbenzene	15.214	91	448	1.728	pg	97

Data Path : I:\MS21\DATA\2023_03\09\
 Data File : 03092323.D
 Acq On : 10 Mar 2023 8:49
 Operator : KM
 Sample : SC00778
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 204 Sample Multiplier: 1

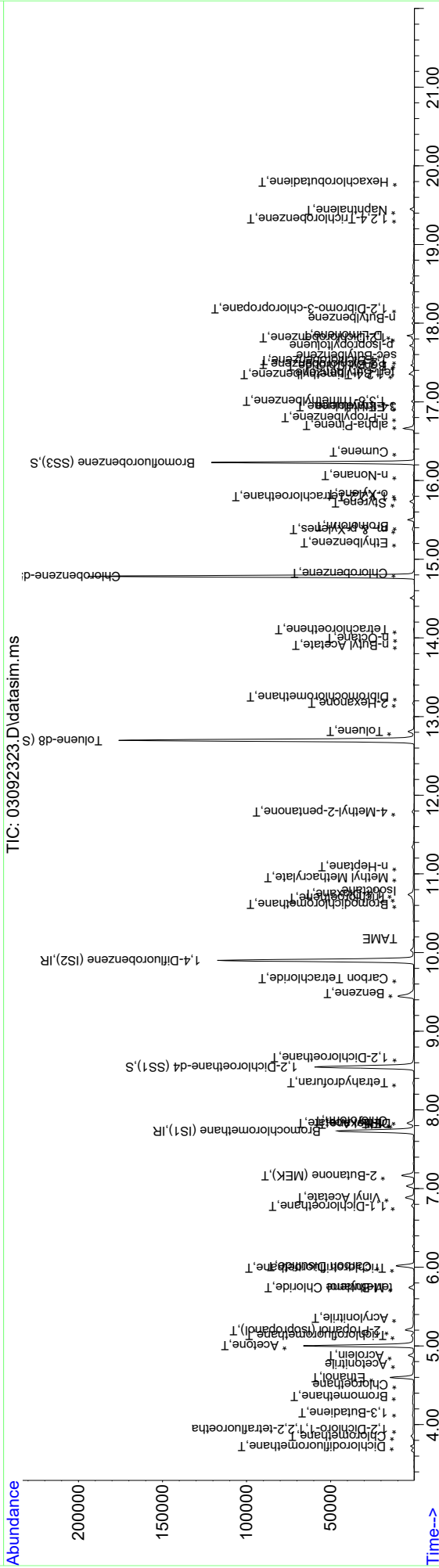
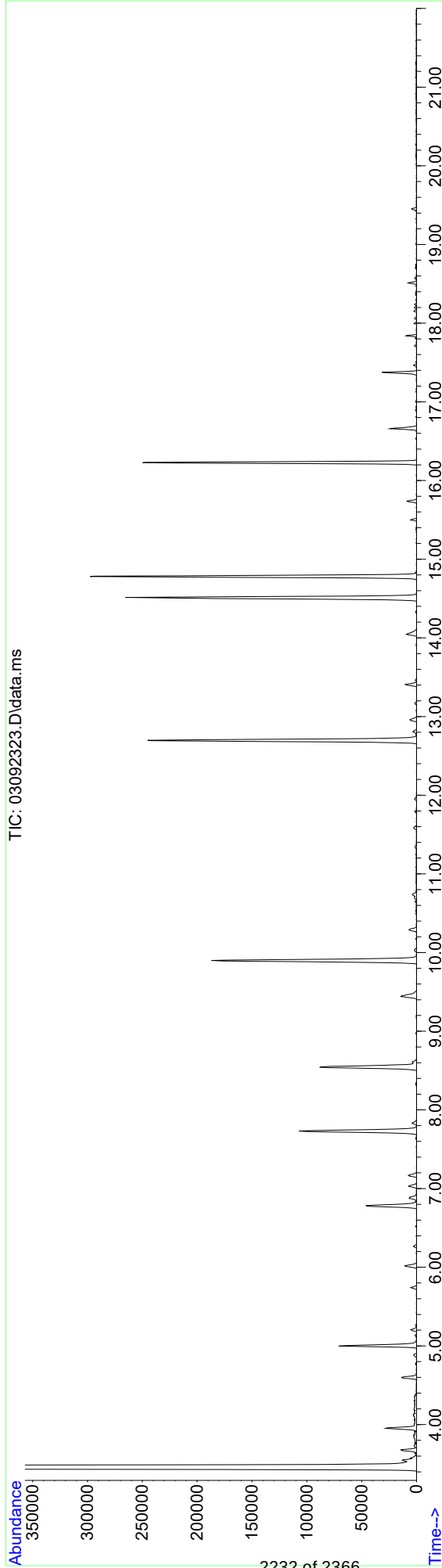
Quant Time: Mar 10 10:53:56 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
67]	* m- & p-Xylenes	15.381	91	1033	5.070	pg		97
68]	* Bromoform	15.423	173	72	4.625	pg	#	26
70]	* Styrene	15.721	104	935	6.747	pg		97
71]	* o-Xylene	15.822	91	502	2.377	pg		99
72]	* n-Nonane	16.067	57	222	3.002	pg		95
73]	* 1,1,2,2-Tetrachloroe...	15.798	83	99	1.403	pg	#	18
75]	* Cumene	16.363	105	318	1.118	pg		98
76]	* alpha-Pinene	16.705	93	202	1.575	pg	#	58
77]	* n-Propylbenzene	16.807	91	433	1.366	pg		93
78]	3-Ethyltoluene	16.938	105	359	1.381	pg		99
79]	* 4-Ethyltoluene	16.938	105	359	1.421	pg		99
80]	* 1,3,5-Trimethylbenzene	17.006	105	892	3.963	pg		99
83]	tert-Butylbenzene	17.373	134	582	10.642	pg	#	1
84]	* 1,2,4-Trimethylbenzene	17.352	105	1992	8.739	pg		87
85]	* Benzyl Chloride	17.459	126	60	7.491	pg		75
86]	* 1,3-Dichlorobenzene	17.476	146	222	1.572	pg		99
87]	* 1,4-Dichlorobenzene	17.530	146	242	1.766	pg		91
89]	sec-Butylbenzene	17.584	105	213	0.663	pg		93
91]	p-Isopropyltoluene	17.719	119	953	3.502	pg		94
92]	* 1,2-Dichlorobenzene	17.816	146	165	1.132	pg		98
93]	* D-Limonene	17.843	68	1601	40.273	pg		95
94]	n-Butylbenzene	18.063	134	387	5.953	pg	#	25
95]	* 1,2-Dibromo-3-chloro...	18.187	157	75	4.998	pg	#	80
97]	* 1,2,4-Trichlorobenzene	19.326	180	345	3.677	pg		98
98]	* Naphthalene	19.435	128	930	4.570	pg	#	89
100]	* Hexachlorobutadiene	19.792	225	136	1.561	pg	#	41

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

Data Path : I:\MS21\DATA\2023_03\09\
Data File : 03092323.D
Acq On : 10 Mar 2023 8:49
Operator : KM
Sample : SC00778
Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial : 204 Sample Multiplier: 1

Quant Time: Mar 10 10:53:56 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA T0-15
QLast Update : Wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data Path : I:\MS21\DATA\2023_03\08\
 Data File : 03082332.D
 Acq On : 9 Mar 2023 13:15
 Operator : KM
 Sample : AC02288
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 214 Sample Multiplier: 1

APL 3/10/23

Quant Time: Mar 10 05:08:22 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.727	130	53189	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.901	114	184092	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	28869	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.545	65	83275	1021.26	pg	0.00
Spiked Amount 1000.000			Recovery	=	102.13%	
57) Toluene-d8 (SS2)	12.697	98	172492	845.40	pg	0.00
Spiked Amount 1000.000			Recovery	=	84.54%	
74) Bromofluorobenzene (SS3)	16.228	174	79403	985.90	pg	0.00
Spiked Amount 1000.000			Recovery	=	98.59%	
Target Compounds						Qvalue
3] * Dichlorodifluoromethane	3.720	85	6018	66.657	pg	100
4] * Chloromethane	3.851	50	1084	26.139	pg	99
5] * 1,2-Dichloro-1,1,2,2...	3.936	85	237	4.241	pg	94
7] * 1,3-Butadiene	4.142	54	59	1.782	pg	# 5
8] * Bromomethane	4.362	94	235	7.416	pg	95
9] * Chloroethane	4.502	64	133	4.618	pg	# 42
10] * Ethanol	4.596	45	5843	308.121	pg	99
11] * Acetonitrile	4.768	41	1454	21.300	pg	96
12] * Acrolein	4.877	56	358	13.142	pg	99
13] * Acetone	5.002	58	7827	213.389	pg	82
14] * Trichlorofluoromethane	5.126	101	3760	32.629	pg	99
15] * 2-Propanol (Isopropa...	5.207	45	2773	84.899	pg	96
16] * Acrylonitrile	5.349	53	90	1.767	pg	98
18] tert-Butanol	5.759	59	460	9.396	pg	# 52
19] * Methylene Chloride	5.739	84	4086	73.223	pg	100
21] * Trichlorotrifluoroet...	5.987	151	770	13.165	pg	98
22] * Carbon Disulfide	6.016	76	3118	16.491	pg	98
26] * Vinyl Acetate	6.887	86	276	68.009	pg	# 1
27] * 2-Butanone (MEK)	7.174	72	650	19.180	pg	86
29] DIPE	7.831	45	346	2.749	pg	# 63
30] * Ethyl Acetate	7.831	61	362	35.648	pg	99
31] * n-Hexane	7.818	57	369	5.002	pg	99
32] * Chloroform	7.863	83	318	3.291	pg	98
34] * Tetrahydrofuran	8.344	71	117	4.017	pg	# 78
36] * 1,2-Dichloroethane	8.666	62	172	2.405	pg	93
39] * Benzene	9.484	78	2261	13.798	pg	100
42] * Carbon Tetrachloride	9.661	117	877	42.065	pg	100
43] * Cyclohexane	9.812	84	141	2.217	pg	99
46] * Bromodichloromethane	10.626	83	131	3.825	pg	87
47] * Trichloroethene	10.691	130	57	1.011	pg	94
48] * 1,4-Dioxane	10.764	88	67	1.531	pg	# 41
49] Isooctane	10.778	56	410	7.553	pg	# 66
50] * Methyl Methacrylate	10.952	69	54	2.456	pg	# 32
51] * n-Heptane	11.090	71	155	3.205	pg	# 84
53] * 4-Methyl-2-pentanone	11.792	58	333	10.093	pg	95
58] * Toluene	12.810	91	5295	25.239	pg	98
59] * 2-Hexanone	13.173	58	116	2.878	pg	# 48
60] * Dibromochloromethane	13.260	129	142	7.405	pg	95
62] * n-Butyl Acetate	13.912	56	68	4.826	pg	# 30
63] * n-Octane	14.005	85	85	1.838	pg	92
64] * Tetrachloroethene	14.109	166	94	1.506	pg	91
65] * Chlorobenzene	14.826	112	141	0.984	pg	# 42
66] * Ethylbenzene	15.214	91	845	3.723	pg	98
67] * m- & p-Xylenes	15.381	91	1950	10.933	pg	98

Data Path : I:\MS21\DATA\2023_03\08\
 Data File : 03082332.D
 Acq On : 9 Mar 2023 13:15
 Operator : KM
 Sample : AC02288
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 214 Sample Multiplier: 1

Quant Time: Mar 10 05:08:22 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68]	* Bromoform	15.423	173	111	8.146	pg	96
70]	* Styrene	15.721	104	321	2.646	pg	97
71]	* o-Xylene	15.822	91	770	4.166	pg	99
72]	* n-Nonane	16.067	57	81	1.251	pg	# 28
73]	* 1,1,2,2-Tetrachloroe...	15.804	83	54	0.874	pg	# 18
75]	* Cumene	16.363	105	147	0.590	pg	# 48
76]	* alpha-Pinene	16.705	93	242	2.156	pg	# 72
77]	* n-Propylbenzene	16.811	91	263	0.948	pg	95
78]	3-Ethyltoluene	16.938	105	262	1.152	pg	92
79]	* 4-Ethyltoluene	16.938	105	262	1.185	pg	93
80]	* 1,3,5-Trimethylbenzene	17.006	105	203	1.030	pg	93
83]	tert-Butylbenzene	17.373	134	100	2.089	pg	# 11
84]	* 1,2,4-Trimethylbenzene	17.351	105	633	3.172	pg	89
86]	* 1,3-Dichlorobenzene	17.475	146	108	0.874	pg	94
87]	* 1,4-Dichlorobenzene	17.529	146	251	2.093	pg	99
89]	sec-Butylbenzene	17.583	105	89	0.316	pg	# 56
91]	p-Isopropyltoluene	17.718	119	281	1.180	pg	100
92]	* 1,2-Dichlorobenzene	17.821	146	105	0.823	pg	94
93]	* D-Limonene	17.837	68	92	2.644	pg	86
94]	n-Butylbenzene	18.063	134	58	1.019	pg	93
95]	* 1,2-Dibromo-3-chloro...	18.187	157	52	3.959	pg	# 14
97]	* 1,2,4-Trichlorobenzene	19.331	180	203	2.472	pg	86
98]	* Naphthalene	19.439	128	457	2.565	pg	95
100]	* Hexachlorobutadiene	19.792	225	133	1.744	pg	# 41

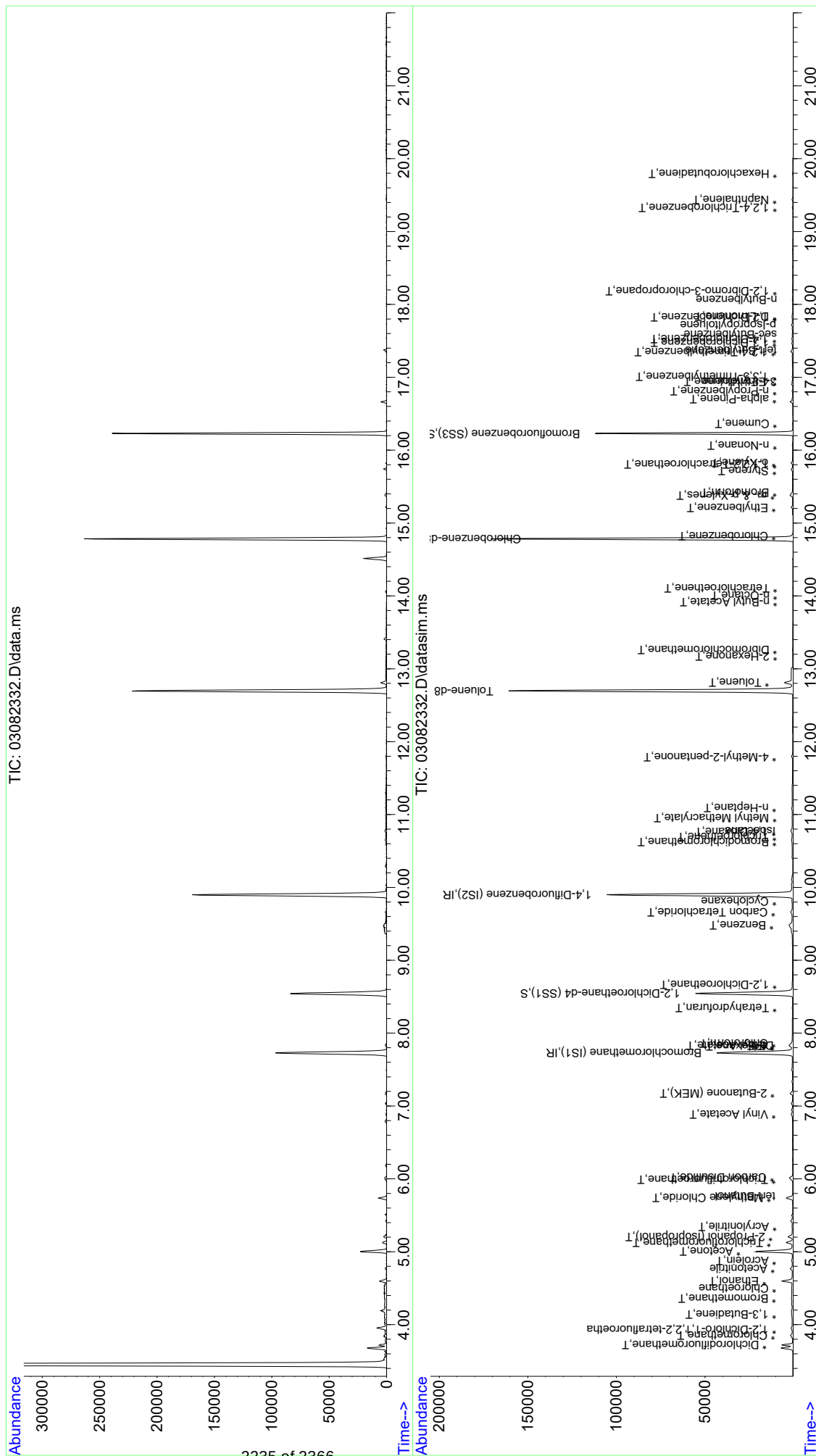
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data Path      : I:\MS21\DATA\2023_03\08\
Data File     : 03082332.D
Acq On       : 9 Mar 2023 13:15
Operator      : KM
Sample        : AC02288
Misc          : LL + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial     : 214 Sample Multiplier: 1

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Quant Time: Mar 10 05:08:22 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA 10-15
Quant Update : wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data Path : I:\MS21\DATA\2023_03\08\
 Data File : 03082315.D
 Acq On : 9 Mar 2023 00:27
 Operator : KM
 Sample : AC01850
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 11 Sample Multiplier: 1

APL 3/9/23

Quant Time: Mar 09 05:41:21 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.734	130	58733	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.901	114	196135	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	32562	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.550	65	92844	1031.14	pg	0.00
Spiked Amount 1000.000			Recovery =	103.11%		
57) Toluene-d8 (SS2)	12.697	98	193253	839.73	pg	0.00
Spiked Amount 1000.000			Recovery =	83.97%		
74) Bromofluorobenzene (SS3)	16.228	174	81325	895.24	pg	0.00
Spiked Amount 1000.000			Recovery =	89.52%		
Target Compounds						Qvalue
3] * Dichlorodifluoromethane	3.729	85	2891	28.999	pg	99
4] * Chloromethane	3.861	50	659	14.391	pg	95
5] * 1,2-Dichloro-1,1,2,2...	3.946	85	297	4.813	pg	96
6] * Vinyl Chloride	4.042	62	150	2.749	pg	# 42
7] * 1,3-Butadiene	4.157	54	119	3.255	pg	# 47
8] * Bromomethane	4.372	94	277	7.916	pg	# 70
9] * Chloroethane	4.507	64	87	2.736	pg	# 42
10] * Ethanol	4.606	45	3351	160.029	pg	99
11] * Acetonitrile	4.778	41	1188	15.761	pg	99
12] * Acrolein	4.890	56	292	9.708	pg	96
13] * Acetone	5.014	58	4858	119.943	pg	84
14] * Trichlorofluoromethane	5.132	101	2117	16.637	pg	99
15] * 2-Propanol (Isopropa...	5.213	45	2163	59.972	pg	96
16] * Acrylonitrile	5.368	53	208	3.698	pg	95
17] * 1,1-Dichloroethene	5.657	96	125	2.067	pg	# 18
18] tert-Butanol	5.764	59	897	16.593	pg	# 64
19] * Methylene Chloride	5.744	84	2146	34.827	pg	100
20] * 3-Chloro-1-propene (...)	5.856	41	85	2.190	pg	# 26
21] * Trichlorotrifluoroet...	5.992	151	535	8.284	pg	95
22] * Carbon Disulfide	6.021	76	2947	14.116	pg	100
23] * trans-1,2-Dichloroet...	6.581	96	127	2.073	pg	86
24] * 1,1-Dichloroethane	6.767	63	198	2.199	pg	96
25] * Methyl tert-Butyl Ether	6.892	73	234	1.495	pg	# 59
26] * Vinyl Acetate	6.902	86	188	41.952	pg	# 1
27] * 2-Butanone (MEK)	7.184	72	563	15.045	pg	94
28] * cis-1,2-Dichloroethene	7.572	96	125	1.922	pg	94
29] DIPE	7.844	45	801	5.764	pg	# 75
30] * Ethyl Acetate	7.838	61	614	54.756	pg	90
31] * n-Hexane	7.825	57	262	3.216	pg	# 88
32] * Chloroform	7.870	83	458	4.293	pg	98
34] * Tetrahydrofuran	8.354	71	177	5.504	pg	97
35] ETBE	8.434	87	176	3.226	pg	99
36] * 1,2-Dichloroethane	8.666	62	283	3.583	pg	94
38] * 1,1,1-Trichloroethane	8.977	97	262	5.456	pg	99
39] * Benzene	9.489	78	1648	9.440	pg	98
42] * Carbon Tetrachloride	9.661	117	574	25.841	pg	96
43] * Cyclohexane	9.813	84	275	4.059	pg	97
44] TAME	10.243	87	146	5.132	pg	# 29
45] * 1,2-Dichloropropane	10.423	63	140	3.591	pg	93
46] * Bromodichloromethane	10.626	83	290	7.948	pg	99
47] * Trichloroethene	10.698	130	350	5.828	pg	99
48] * 1,4-Dioxane	10.764	88	261	5.597	pg	87
49] Isooctane	10.786	56	302	5.222	pg	82
50] * Methyl Methacrylate	10.960	69	216	9.222	pg	96

Data Path : I:\MS21\DATA\2023_03\08\
 Data File : 03082315.D
 Acq On : 9 Mar 2023 00:27
 Operator : KM
 Sample : AC01850
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 11 Sample Multiplier: 1

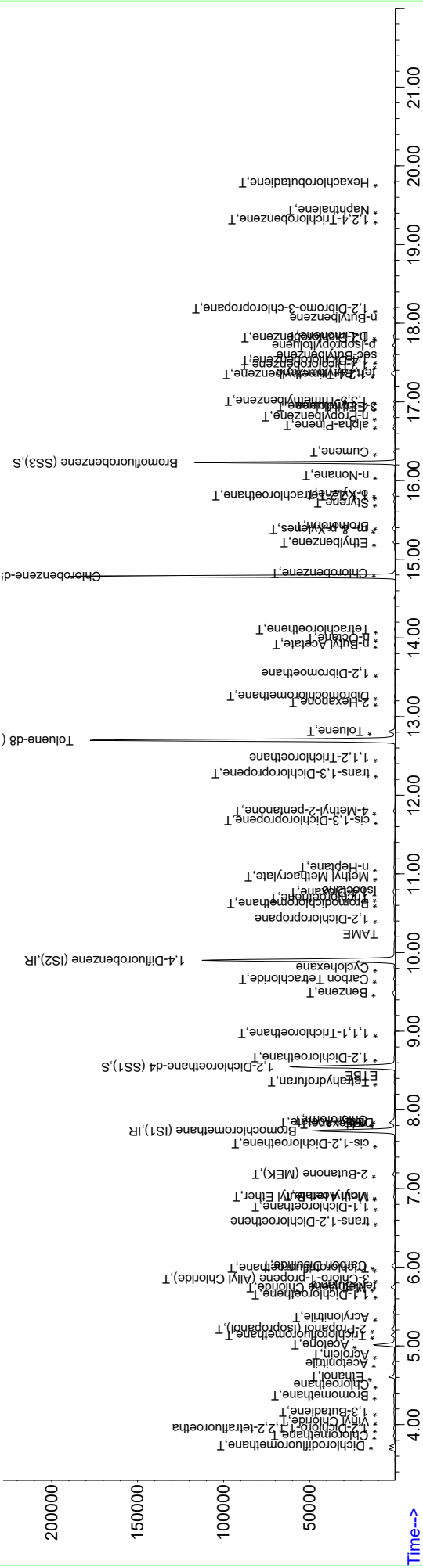
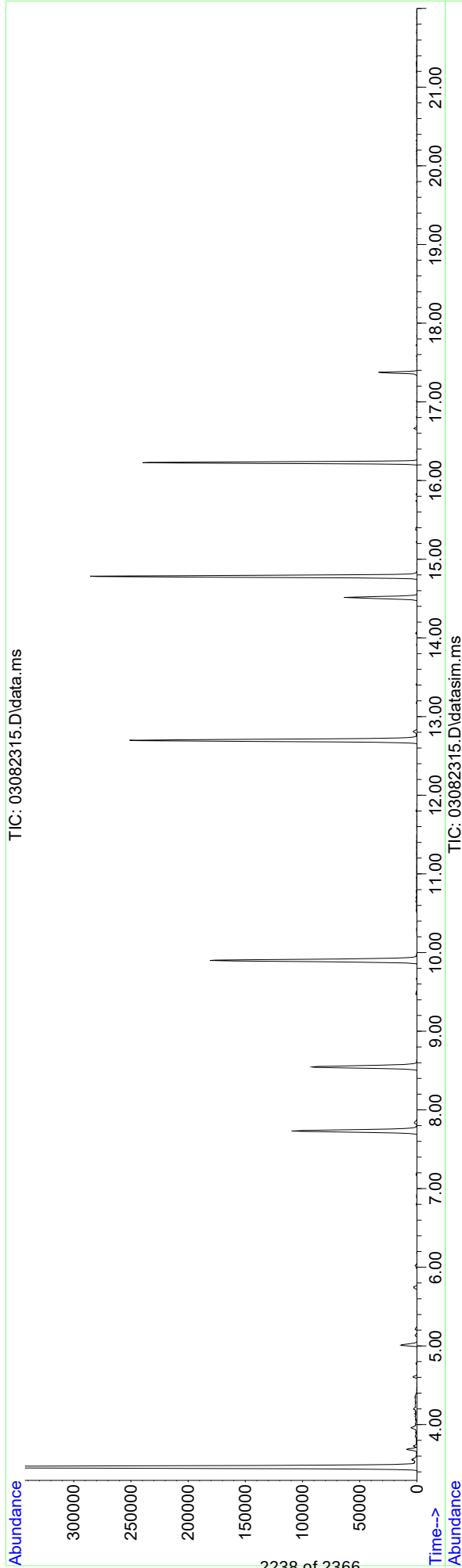
Quant Time: Mar 09 05:41:21 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51]	* n-Heptane	11.083	71	158	3.067	pg	100
52]	* cis-1,3-Dichloropropene	11.680	75	97	2.897	pg	84
53]	* 4-Methyl-2-pentanone	11.798	58	478	13.598	pg	96
54]	* trans-1,3-Dichloropr...	12.280	75	73	2.938	pg	# 42
55]	* 1,1,2-Trichloroethane	12.475	97	137	3.264	pg	100
58]	* Toluene	12.810	91	3937	16.638	pg	96
59]	* 2-Hexanone	13.178	58	418	9.195	pg	100
60]	* Dibromochloromethane	13.260	129	284	13.130	pg	98
61]	* 1,2-Dibromoethane	13.547	107	113	3.751	pg	94
62]	* n-Butyl Acetate	13.912	56	328	20.638	pg	95
63]	* n-Octane	14.000	85	112	2.148	pg	93
64]	* Tetrachloroethene	14.103	166	238	3.380	pg	99
65]	* Chlorobenzene	14.826	112	373	2.307	pg	94
66]	* Ethylbenzene	15.214	91	956	3.734	pg	99
67]	* m- & p-Xylenes	15.381	91	2024	10.061	pg	99
68]	* Bromoform	15.423	173	200	13.013	pg	95
70]	* Styrene	15.721	104	396	2.894	pg	97
71]	* o-Xylene	15.822	91	830	3.981	pg	99
72]	* n-Nonane	16.067	57	143	1.959	pg	95
73]	* 1,1,2,2-Tetrachloroe...	15.804	83	240	3.445	pg	99
75]	* Cumene	16.363	105	550	1.958	pg	99
76]	* alpha-Pinene	16.700	93	304	2.401	pg	# 80
77]	* n-Propylbenzene	16.811	91	608	1.943	pg	99
78]	3-Ethyltoluene	16.938	105	528	2.057	pg	97
79]	* 4-Ethyltoluene	16.938	105	530	2.125	pg	98
80]	* 1,3,5-Trimethylbenzene	17.006	105	470	2.115	pg	100
83]	tert-Butylbenzene	17.373	134	697	12.908	pg	# 1
84]	* 1,2,4-Trimethylbenzene	17.351	105	1046	4.648	pg	91
86]	* 1,3-Dichlorobenzene	17.470	146	233	1.671	pg	97
87]	* 1,4-Dichlorobenzene	17.529	146	216	1.597	pg	99
89]	sec-Butylbenzene	17.583	105	511	1.610	pg	99
91]	p-Isopropyltoluene	17.718	119	760	2.829	pg	99
92]	* 1,2-Dichlorobenzene	17.816	146	213	1.480	pg	95
93]	* D-Limonene	17.837	68	269	6.853	pg	91
94]	n-Butylbenzene	18.070	134	132	2.057	pg	97
95]	* 1,2-Dibromo-3-chloro...	18.187	157	245	16.537	pg	86
97]	* 1,2,4-Trichlorobenzene	19.321	180	173	1.868	pg	98
98]	* Naphthalene	19.434	128	253	1.259	pg	# 68
100]	* Hexachlorobutadiene	19.788	225	316	3.674	pg	98

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

Data Path : I:\MS21\DATA\2023_03\08\
Data File : 03082315.D
Acq On : 9 Mar 2023 00:27
Operator : KM
Sample : AC01850
Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 09 05:41:21 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA T0-15
QLast Update : Wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data Path : I:\MS21\DATA\2023_02\28\
 Data File : 02282314.D
 Acq On : 28 Feb 2023 23:28
 Operator : KM
 Sample : AC02291
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 10 Sample Multiplier: 1

APL 3/1/23

Quant Time: Mar 01 08:34:46 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.728	130	69015	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.896	114	214555	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	33841	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.545	65	104232	985.15	pg	0.00
Spiked Amount 1000.000			Recovery	=	98.52%	
57) Toluene-d8 (SS2)	12.697	98	207082	865.81	pg	0.00
Spiked Amount 1000.000			Recovery	=	86.58%	
74) Bromofluorobenzene (SS3)	16.228	174	82342	872.18	pg	0.00
Spiked Amount 1000.000			Recovery	=	87.22%	

Target	Compounds					Qvalue
3]	* Dichlorodifluoromethane	3.720	85	2194	18.729 pg	100
4]	* Chloromethane	3.851	50	747	13.882 pg	98
5]	* 1,2-Dichloro-1,1,2,2...	3.941	85	356	4.910 pg	94
6]	* Vinyl Chloride	4.037	62	229	3.571 pg	# 88
7]	* 1,3-Butadiene	4.147	54	172	4.004 pg	# 61
8]	* Bromomethane	4.362	94	260	6.323 pg	94
9]	* Chloroethane	4.502	64	189	5.058 pg	99
10]	* Ethanol	4.596	45	6322	256.932 pg	99
11]	* Acetonitrile	4.768	41	672	7.587 pg	96
12]	* Acrolein	4.878	56	1278	36.157 pg	95
13]	* Acetone	5.008	58	6926	145.525 pg	99
14]	* Trichlorofluoromethane	5.126	101	1702	11.383 pg	99
15]	* 2-Propanol (Isopropa...	5.207	45	2859	67.459 pg	100
16]	* Acrylonitrile	5.349	53	383	5.795 pg	98
17]	* 1,1-Dichloroethene	5.652	96	204	2.871 pg	94
18]	tert-Butanol	5.754	59	921	14.499 pg	# 74
19]	* Methylene Chloride	5.735	84	1504	20.772 pg	99
20]	* 3-Chloro-1-propene (...)	5.846	41	151	3.311 pg	97
21]	* Trichlorotrifluoroet...	5.982	151	473	6.233 pg	96
22]	* Carbon Disulfide	6.012	76	4567	18.616 pg	99
23]	* trans-1,2-Dichloroet...	6.571	96	230	3.195 pg	96
24]	* 1,1-Dichloroethane	6.757	63	328	3.100 pg	93
25]	* Methyl tert-Butyl Ether	6.888	73	396	2.153 pg	92
26]	* Vinyl Acetate	6.893	86	398	75.582 pg	# 4
27]	* 2-Butanone (MEK)	7.174	72	751	17.079 pg	79
28]	* cis-1,2-Dichloroethene	7.566	96	209	2.735 pg	98
29]	DIPE	7.838	45	1183	7.245 pg	# 77
30]	* Ethyl Acetate	7.831	61	886	67.242 pg	87
31]	* n-Hexane	7.818	57	263	2.748 pg	# 88
32]	* Chloroform	7.864	83	558	4.451 pg	100
34]	* Tetrahydrofuran	8.344	71	246	6.510 pg	96
35]	ETBE	8.430	87	270	4.212 pg	99
36]	* 1,2-Dichloroethane	8.661	62	364	3.922 pg	98
38]	* 1,1,1-Trichloroethane	8.967	97	396	7.539 pg	97
39]	* Benzene	9.484	78	1704	8.923 pg	99
42]	* Carbon Tetrachloride	9.656	117	559	23.005 pg	99
43]	* Cyclohexane	9.818	84	357	4.817 pg	98
44]	TAME	10.243	87	219	7.037 pg	# 49
45]	* 1,2-Dichloropropane	10.416	63	212	4.971 pg	93
46]	* Bromodichloromethane	10.619	83	473	11.851 pg	93
47]	* Trichloroethene	10.691	130	292	4.445 pg	89
48]	* 1,4-Dioxane	10.764	88	191	3.745 pg	90
49]	Isooctane	10.778	56	255	4.031 pg	85
50]	* Methyl Methacrylate	10.953	69	564	22.013 pg	95

Data Path : I:\MS21\DATA\2023_02\28\
 Data File : 02282314.D
 Acq On : 28 Feb 2023 23:28
 Operator : KM
 Sample : AC02291
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 01 08:34:46 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51]	* n-Heptane	11.083	71	216	3.833	pg	91
52]	* cis-1,3-Dichloropropene	11.680	75	186	5.078	pg	# 49
53]	* 4-Methyl-2-pentanone	11.798	58	478	12.430	pg	94
54]	* trans-1,3-Dichloropr...	12.275	75	171	6.292	pg	# 68
55]	* 1,1,2-Trichloroethane	12.475	97	220	4.791	pg	94
58]	* Toluene	12.810	91	1903	7.738	pg	98
59]	* 2-Hexanone	13.173	58	301	6.371	pg	92
60]	* Dibromochloromethane	13.260	129	374	16.637	pg	97
61]	* 1,2-Dibromoethane	13.547	107	234	7.473	pg	94
62]	* n-Butyl Acetate	13.912	56	176	10.655	pg	89
63]	* n-Octane	14.000	85	120	2.214	pg	94
64]	* Tetrachloroethene	14.109	166	447	6.109	pg	98
65]	* Chlorobenzene	14.826	112	627	3.732	pg	100
66]	* Ethylbenzene	15.214	91	811	3.048	pg	100
67]	* m- & p-Xylenes	15.381	91	1469	7.026	pg	96
68]	* Bromoform	15.423	173	272	17.029	pg	100
70]	* Styrene	15.721	104	612	4.304	pg	98
71]	* o-Xylene	15.822	91	630	2.907	pg	97
72]	* n-Nonane	16.067	57	161	2.122	pg	99
73]	* 1,1,2,2-Tetrachloroe...	15.804	83	402	5.552	pg	98
75]	* Cumene	16.363	105	713	2.442	pg	99
76]	* alpha-Pinene	16.705	93	404	3.070	pg	# 82
77]	* n-Propylbenzene	16.807	91	746	2.294	pg	95
78]	3-Ethyltoluene	16.938	105	552	2.070	pg	97
79]	* 4-Ethyltoluene	16.938	105	554	2.137	pg	97
80]	* 1,3,5-Trimethylbenzene	17.006	105	460	1.992	pg	99
83]	tert-Butylbenzene	17.373	134	292	5.203	pg	# 11
84]	* 1,2,4-Trimethylbenzene	17.352	105	599	2.561	pg	98
85]	* Benzyl Chloride	17.459	126	109	13.262	pg	# 64
86]	* 1,3-Dichlorobenzene	17.470	146	335	2.312	pg	98
87]	* 1,4-Dichlorobenzene	17.530	146	288	2.048	pg	96
89]	sec-Butylbenzene	17.584	105	576	1.746	pg	100
91]	p-Isopropyltoluene	17.719	119	598	2.142	pg	98
92]	* 1,2-Dichlorobenzene	17.816	146	341	2.280	pg	98
93]	* D-Limonene	17.843	68	179	4.388	pg	85
94]	n-Butylbenzene	18.070	134	111	1.664	pg	71
95]	* 1,2-Dibromo-3-chloro...	18.187	157	266	17.276	pg	87
97]	* 1,2,4-Trichlorobenzene	19.326	180	278	2.888	pg	99
98]	* Naphthalene	19.439	128	318	1.523	pg	# 68
100]	* Hexachlorobutadiene	19.792	225	354	3.961	pg	96

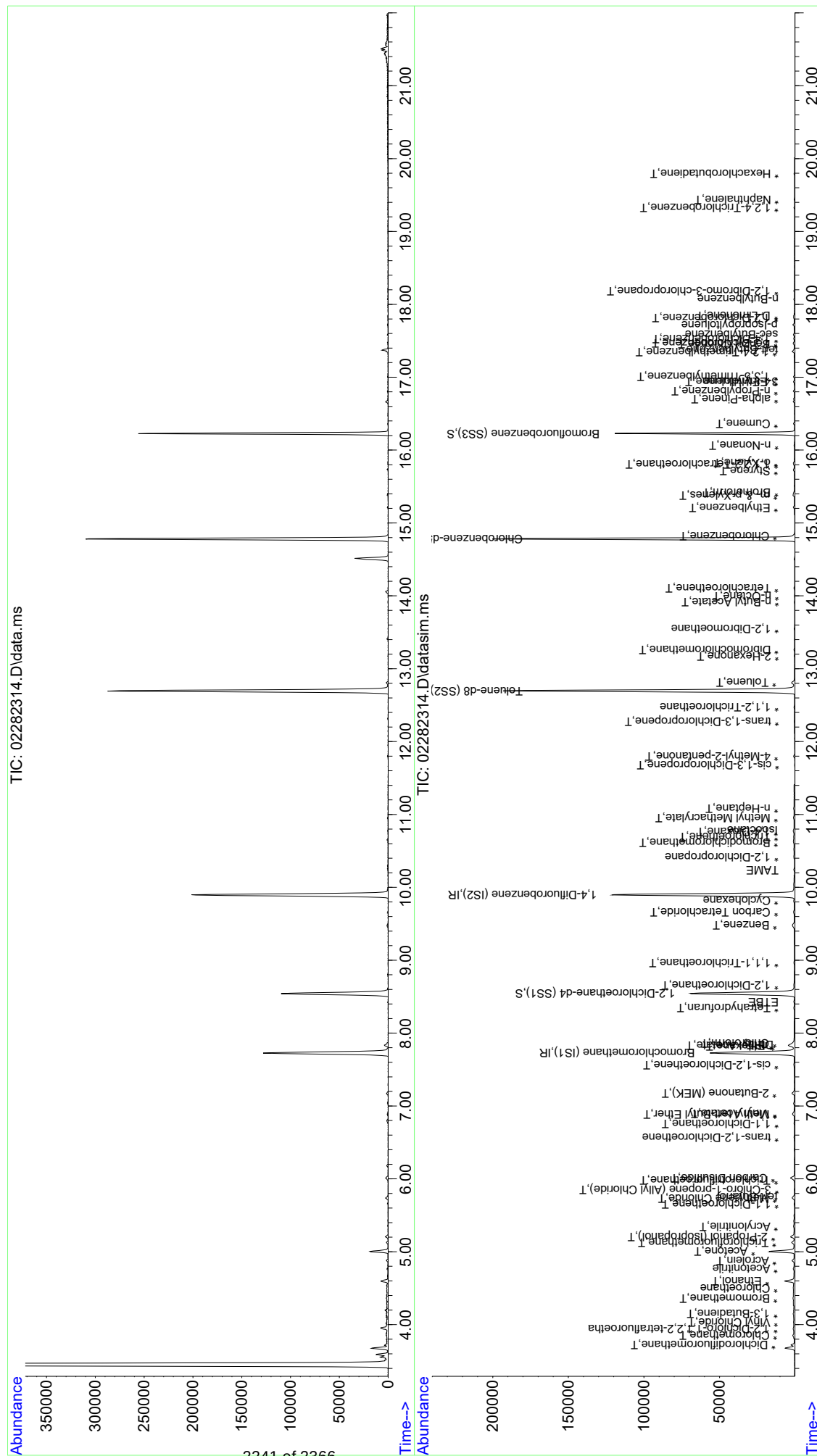
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data Path      : I:\MS21\DATA\2023_02\28\
Data File     : 02282314.D
Acq On       : 28 Feb 2023   23:28
Operator      : KM
Sample        : AC02291
MS1           : LL + TICS (Sig #1); S35-02272301 (Sig #2)
MS2           : 10 Sample Multiplier: 1
ALS Vial      :

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Quant Time: Mar 01 08:34:46 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA 10-15
QLast Update : wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data Path : I:\MS21\DATA\2023_03\07\
 Data File : 03072317.D
 Acq On : 7 Mar 2023 21:11
 Operator : KM
 Sample : SC00921
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 8 Sample Multiplier: 1

APL 3/8/23

Quant Time: Mar 08 06:52:49 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.728	130	51062	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.901	114	171929	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	29607	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.545	65	81661	1043.19	pg	0.00
Spiked Amount 1000.000			Recovery	=	104.32%	
57) Toluene-d8 (SS2)	12.697	98	170244	813.59	pg	0.00
Spiked Amount 1000.000			Recovery	=	81.36%	
74) Bromofluorobenzene (SS3)	16.228	174	75729	916.84	pg	0.00
Spiked Amount 1000.000			Recovery	=	91.68%	

Target	Compounds					Qvalue
2]	* Propene	3.665	42	533	16.122 pg	# 32
3]	* Dichlorodifluoromethane	3.720	85	164	1.892 pg	99
4]	* Chloromethane	3.851	50	164	4.119 pg	98
7]	* 1,3-Butadiene	4.142	54	23	0.724 pg	# 5
10]	* Ethanol	4.596	45	3324	182.587 pg	99
11]	* Acetonitrile	4.768	41	918	14.008 pg	96
12]	* Acrolein	4.878	56	380	14.531 pg	89
13]	* Acetone	5.008	58	10790	306.424 pg	78
14]	* Trichlorofluoromethane	5.126	101	82	0.741 pg	99
15]	* 2-Propanol (Isopropa...	5.201	45	2450	78.134 pg	91
16]	* Acrylonitrile	5.350	53	88	1.800 pg	92
18]	tert-Butanol	5.754	59	331	7.043 pg	# 83
19]	* Methylene Chloride	5.735	84	311	5.805 pg	100
22]	* Carbon Disulfide	6.012	76	11935	65.755 pg	99
26]	* Vinyl Acetate	6.893	86	532	136.550 pg	# 1
27]	* 2-Butanone (MEK)	7.169	72	1493	45.890 pg	80
29]	DIPE	7.831	45	560	4.635 pg	# 36
30]	* Ethyl Acetate	7.831	61	607	62.264 pg	93
31]	* n-Hexane	7.818	57	69	0.974 pg	# 53
32]	* Chloroform	7.864	83	60	0.647 pg	# 17
38]	* 1,1,1-Trichloroethane	8.967	97	89	2.114 pg	# 18
39]	* Benzene	9.484	78	3384	22.113 pg	100
42]	* Carbon Tetrachloride	9.662	117	153	7.858 pg	81
46]	* Bromodichloromethane	10.626	83	71	2.220 pg	# 18
48]	* 1,4-Dioxane	10.742	88	2828	69.188 pg	# 80
49]	Isooctane	10.713	56	125	2.466 pg	# 6
51]	* n-Heptane	11.083	71	59	1.306 pg	# 39
53]	* 4-Methyl-2-pentanone	11.793	58	714	23.171 pg	94
58]	* Toluene	12.810	91	913	4.243 pg	96
59]	* 2-Hexanone	13.168	58	556	13.452 pg	99
60]	* Dibromochloromethane	13.260	129	55	2.796 pg	# 11
62]	* n-Butyl Acetate	13.907	56	63	4.360 pg	# 30
64]	* Tetrachloroethene	14.104	166	119	1.859 pg	94
65]	* Chlorobenzene	14.826	112	110	0.748 pg	# 42
66]	* Ethylbenzene	15.220	91	210	0.902 pg	92
67]	* m- & p-Xylenes	15.381	91	470	2.570 pg	96
68]	* Bromoform	15.417	173	61	4.365 pg	# 26
70]	* Styrene	15.721	104	226	1.817 pg	98
71]	* o-Xylene	15.822	91	204	1.076 pg	94
72]	* n-Nonane	16.067	57	81	1.220 pg	# 28
73]	* 1,1,2,2-Tetrachloroe...	15.804	83	61	0.963 pg	# 18
75]	* Cumene	16.363	105	91	0.356 pg	# 48
77]	* n-Propylbenzene	16.812	91	153	0.538 pg	# 76
78]	3-Ethyltoluene	16.904	105	172	0.737 pg	96

Data Path : I:\MS21\DATA\2023_03\07\
 Data File : 03072317.D
 Acq On : 7 Mar 2023 21:11
 Operator : KM
 Sample : SC00921
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 8 Sample Multiplier: 1

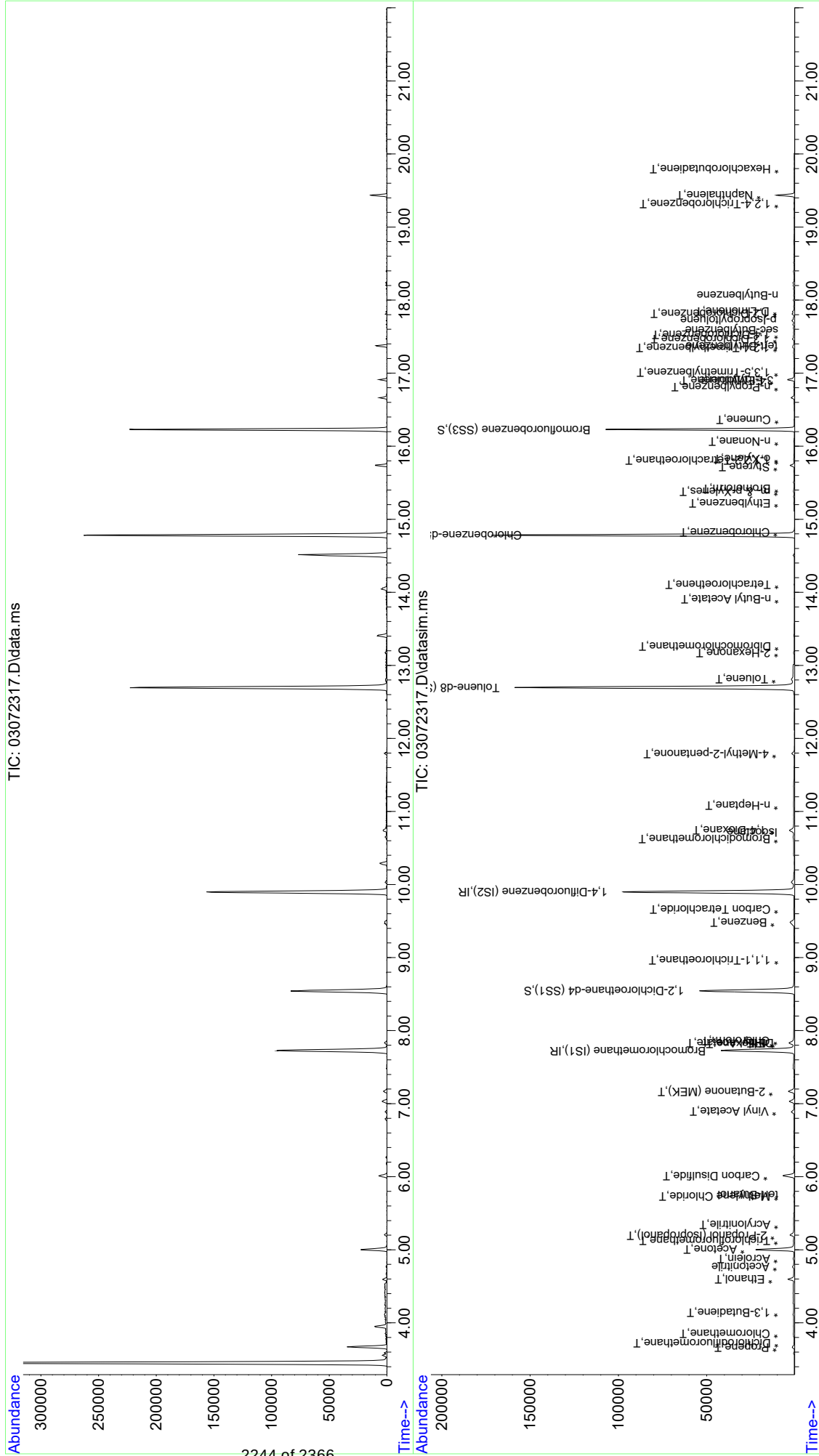
Quant Time: Mar 08 06:52:49 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79]	* 4-Ethyltoluene	16.904	105	174	0.767	pg	97
80]	* 1,3,5-Trimethylbenzene	17.006	105	155	0.767	pg	92
83]	tert-Butylbenzene	17.373	134	237	4.827	pg	# 1
84]	* 1,2,4-Trimethylbenzene	17.352	105	468	2.287	pg	90
86]	* 1,3-Dichlorobenzene	17.470	146	84	0.663	pg	# 18
87]	* 1,4-Dichlorobenzene	17.530	146	88	0.715	pg	85
89]	sec-Butylbenzene	17.584	105	75	0.260	pg	# 56
91]	p-Isopropyltoluene	17.724	119	641	2.624	pg	100
92]	* 1,2-Dichlorobenzene	17.816	146	72	0.550	pg	# 18
93]	* D-Limonene	17.843	68	329	9.219	pg	92
94]	n-Butylbenzene	18.063	134	74	1.268	pg	79
97]	* 1,2,4-Trichlorobenzene	19.322	180	117	1.389	pg	96
98]	* Naphthalene	19.435	128	13099	71.700	pg	100
100]	* Hexachlorobutadiene	19.793	225	117	1.496	pg	# 41

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

Data Path : I:\MS21\DATA\2023_03\07\
Data File : 03072317.D
Acq On : 7 Mar 2023 21:11
Operator : KM
Sample : SC00921
Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 08 06:52:49 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA T0-15
QLast Update : Wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data File : I:\MS09\DATA\2023_03\10\03102324.D
 Acq On : 10 Mar 2023 23:52
 Sample : SC02356_30739
 Misc : S35-02212305

Vial: 15
 Operator: SC
 Inst : MS09

Quant Time: Mar 12 18:23:51 2023

Pass Low-Level, no TICs

Quant Method : I:\MS09\METHODS\R9022723.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Tue Feb 28 08:30:18 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.20	130	173424	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	9.26	114	768085	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.80	54	176093	12.500	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.96	65	372344	12.682	ng	-0.04
Spiked Amount	12.500	Range 70 - 130	Recovery	=	101.44%	
57) Toluene-d8 (SS2)	12.39	98	904543	13.519	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	108.16%	
73) Bromofluorobenzene (SS3)	16.79	174	281552	10.319	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	82.56%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.30	42	2716	0.118	ng	96
10) Ethanol	4.27	45	9954	0.605	ng	74
12) Acrolein	4.52	56	2385	0.217	ng	92
13) Acetone	4.62	58	30041	2.409	ng	# 61
15) 2-Propanol (Isopropanol)	4.84	45	4320	0.089	ng	# 54
26) Vinyl Acetate	6.41	86	1062	0.439	ng	# 48
27) 2-Butanone (MEK)	6.66	72	3272	0.329	ng	# 77
48) 1,4-Dioxane	10.12	88	2526	0.197	ng	99
58) Toluene	12.52	91	4614	0.065	ng	95

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

Data File : I:\MS09\DATA\2023_03\10\03102324.D
Acq On : 10 Mar 2023 23:52
Sample : SC02356_30739
Misc : S35-02212305

Vial: 15
Operator: SC
Inst : MS09

Quant Time: Mar 12 18:23:51 2023

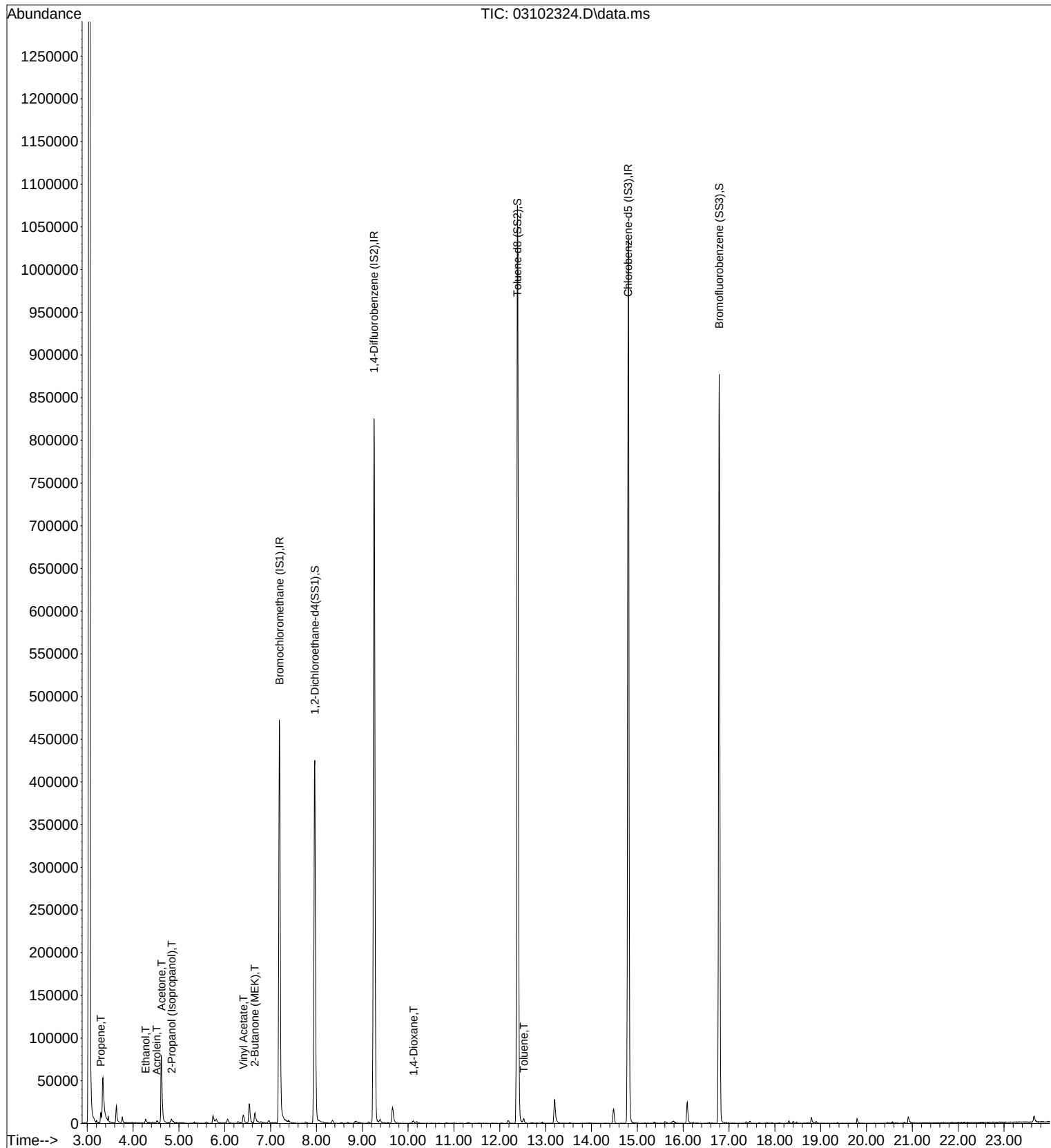
Quant Method : I:\MS09\METHODS\R9022723.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Tue Feb 28 08:30:18 2023

Response via : Initial Calibration

DataAcq Meth:T015.M



Data File : I:\MS09\DATA\2023_03\08\03082325.D
 Acq On : 8 Mar 2023 23:16
 Sample : AS01666_30722
 Misc : S35-02212305

Vial: 14
 Operator: SC
 Inst : MS09

Quant Time: Mar 09 08:41:28 2023

Quant Method : I:\MS09\METHODS\R9022723.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Tue Feb 28 08:30:18 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

 3/9/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.19	130	180244	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	9.26	114	792406	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.80	54	175394	12.500	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.96	65	377618	12.375	ng	-0.05
Spiked Amount	12.500	Range	70 - 130	Recovery	=	98.96%
57) Toluene-d8 (SS2)	12.39	98	929954	13.954	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	111.60%
73) Bromofluorobenzene (SS3)	16.79	174	287562	10.581	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	84.64%

Target Compounds

					Qvalue
10) Ethanol	4.30	45	4742	0.277 ng	92
13) Acetone	4.65	58	1934	0.149 ng	# 84

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

Data File : I:\MS09\DATA\2023_03\08\03082325.D
Acq On : 8 Mar 2023 23:16
Sample : AS01666_30722
Misc : S35-02212305

Vial: 14
Operator: SC
Inst : MS09

Quant Time: Mar 09 08:41:28 2023

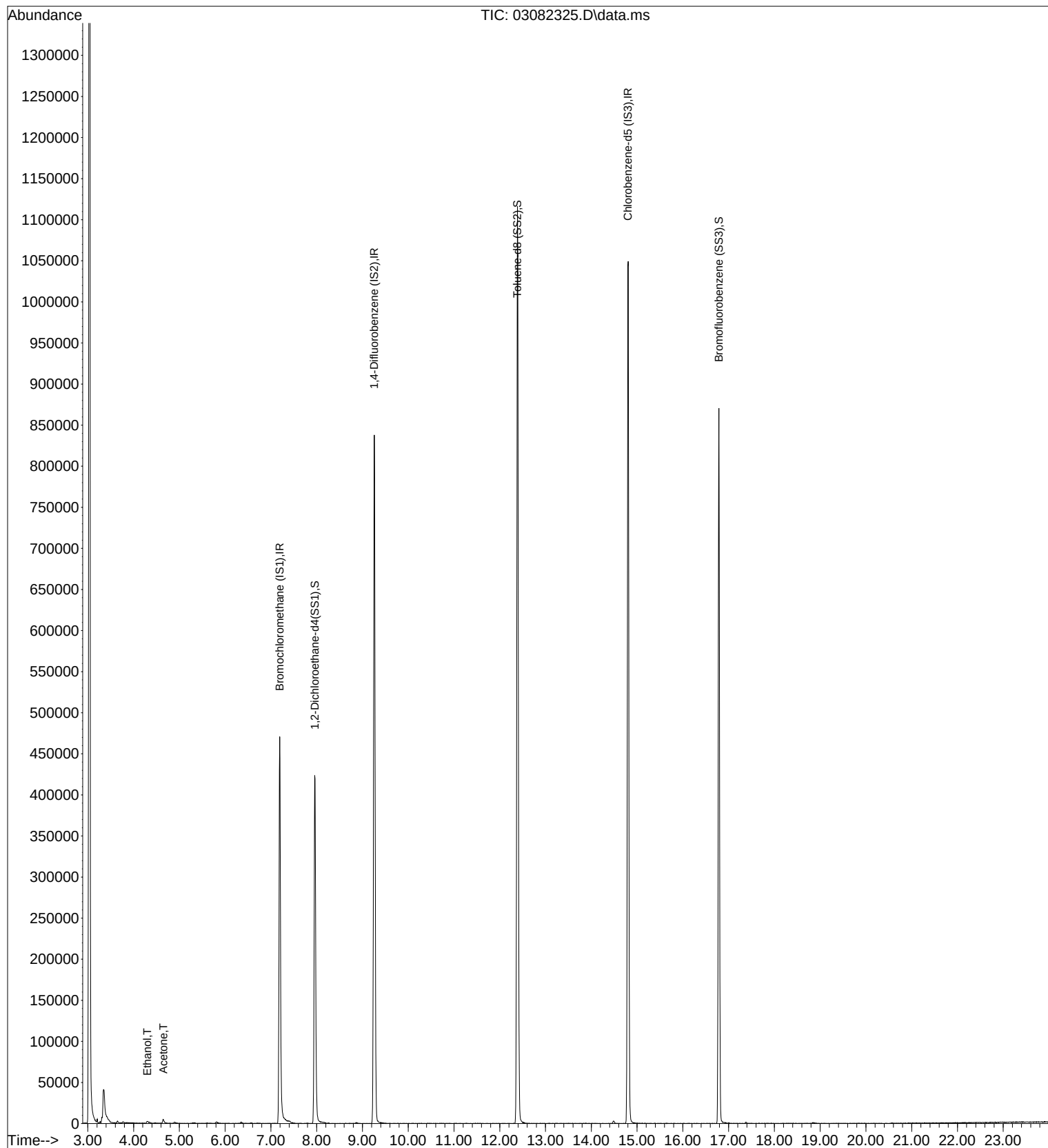
Quant Method : I:\MS09\METHODS\R9022723.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Tue Feb 28 08:30:18 2023

Response via : Initial Calibration

DataAcq Meth:T015.M



Data Path : I:\MS21\DATA\2023_03\07\
 Data File : 03072331.D
 Acq On : 8 Mar 2023 11:37
 Operator : KM
 Sample : AC02225
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 213 Sample Multiplier: 1

APL 3/8/23

Quant Time: Mar 08 12:02:52 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA TO-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.727	130	51044	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.896	114	168782	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	30664	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.545	65	82004	1047.94	pg	0.00
Spiked Amount 1000.000			Recovery	=	104.79%	
57) Toluene-d8 (SS2)	12.697	98	165433	763.34	pg	0.00
Spiked Amount 1000.000			Recovery	=	76.33%	
74) Bromofluorobenzene (SS3)	16.228	174	68990	806.46	pg	0.00
Spiked Amount 1000.000			Recovery	=	80.65%	
Target Compounds						Qvalue
3] * Dichlorodifluoromethane	3.720	85	2890	33.355	pg	98
4] * Chloromethane	3.851	50	865	21.735	pg	98
5] * 1,2-Dichloro-1,1,2,2...	3.936	85	109	2.032	pg	# 42
7] * 1,3-Butadiene	4.132	54	8	0.252	pg	# 5
8] * Bromomethane	4.356	94	224	7.366	pg	96
9] * Chloroethane	4.497	64	50	1.809	pg	# 42
10] * Ethanol	4.596	45	6104	335.411	pg	98
11] * Acetonitrile	4.768	41	1006	15.357	pg	93
12] * Acrolein	4.878	56	450	17.214	pg	100
13] * Acetone	5.002	58	8123	230.765	pg	90
14] * Trichlorofluoromethane	5.126	101	1752	15.843	pg	100
15] * 2-Propanol (Isopropa...	5.200	45	2554	81.480	pg	93
16] * Acrylonitrile	5.349	53	67	1.371	pg	99
18] tert-Butanol	5.744	59	558	11.877	pg	# 70
19] * Methylene Chloride	5.734	84	1401	26.161	pg	99
21] * Trichlorotrifluoroet...	5.987	151	370	6.592	pg	99
22] * Carbon Disulfide	6.016	76	9308	51.300	pg	99
26] * Vinyl Acetate	6.887	86	421	108.097	pg	# 1
27] * 2-Butanone (MEK)	7.169	72	880	27.058	pg	84
29] DIPE	7.825	45	634	5.250	pg	# 36
30] * Ethyl Acetate	7.831	61	771	79.115	pg	92
31] * n-Hexane	7.818	57	106	1.497	pg	# 53
32] * Chloroform	7.864	83	207	2.232	pg	100
34] * Tetrahydrofuran	8.349	71	69	2.469	pg	99
36] * 1,2-Dichloroethane	8.661	62	109	1.588	pg	# 1
39] * Benzene	9.484	78	1320	8.786	pg	97
42] * Carbon Tetrachloride	9.661	117	376	19.671	pg	99
46] * Bromodichloromethane	10.626	83	68	2.166	pg	# 18
47] * Trichloroethene	10.691	130	198	3.831	pg	94
48] * 1,4-Dioxane	10.749	88	595	14.828	pg	84
49] Isooctane	10.778	56	65	1.306	pg	# 36
53] * 4-Methyl-2-pentanone	11.792	58	534	17.653	pg	99
58] * Toluene	12.810	91	1583	7.104	pg	99
59] * 2-Hexanone	13.178	58	96	2.243	pg	# 48
60] * Dibromochloromethane	13.254	129	57	2.798	pg	# 11
64] * Tetrachloroethene	14.103	166	66	0.995	pg	95
65] * Chlorobenzene	14.826	112	84	0.552	pg	# 42
66] * Ethylbenzene	15.214	91	254	1.054	pg	100
67] * m- & p-Xylenes	15.381	91	558	2.945	pg	99
68] * Bromoform	15.423	173	69	4.767	pg	# 26
70] * Styrene	15.721	104	155	1.203	pg	93
71] * o-Xylene	15.822	91	208	1.059	pg	98
72] * n-Nonane	16.067	57	52	0.756	pg	# 28
75] * Cumene	16.363	105	80	0.302	pg	# 48

Data Path : I:\MS21\DATA\2023_03\07\
 Data File : 03072331.D
 Acq On : 8 Mar 2023 11:37
 Operator : KM
 Sample : AC02225
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 213 Sample Multiplier: 1

Quant Time: Mar 08 12:02:52 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76]	* alpha-Pinene	16.705	93	113	0.948	pg	# 64
77]	* n-Propylbenzene	16.807	91	112	0.380	pg	# 51
78]	3-Ethyltoluene	16.938	105	91	0.377	pg	# 44
79]	* 4-Ethyltoluene	16.938	105	92	0.392	pg	# 44
80]	* 1,3,5-Trimethylbenzene	17.006	105	81	0.387	pg	# 28
84]	* 1,2,4-Trimethylbenzene	17.373	105	518	2.444	pg	91
86]	* 1,3-Dichlorobenzene	17.470	146	60	0.457	pg	# 71
87]	* 1,4-Dichlorobenzene	17.529	146	85	0.667	pg	96
89]	sec-Butylbenzene	17.583	105	61	0.204	pg	# 56
91]	p-Isopropyltoluene	17.718	119	223	0.881	pg	96
92]	* 1,2-Dichlorobenzene	17.816	146	50	0.369	pg	# 18
93]	* D-Limonene	17.843	68	588	15.908	pg	92
97]	* 1,2,4-Trichlorobenzene	19.307	180	81	0.929	pg	96
98]	* Naphthalene	19.416	128	112	0.592	pg	# 68
100]	* Hexachlorobutadiene	19.750	225	102	1.259	pg	# 41

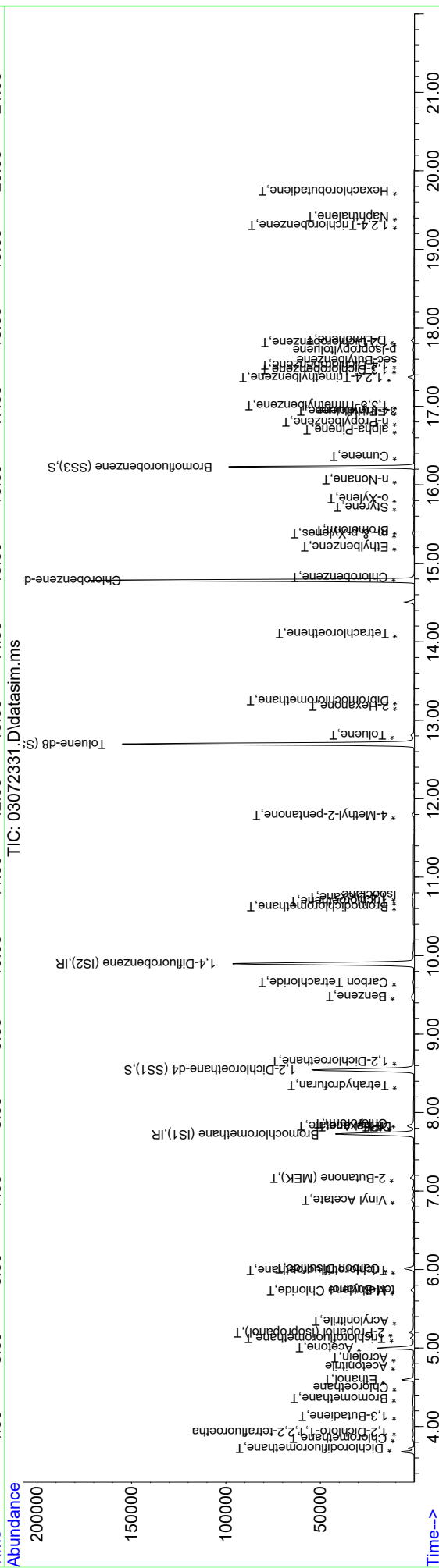
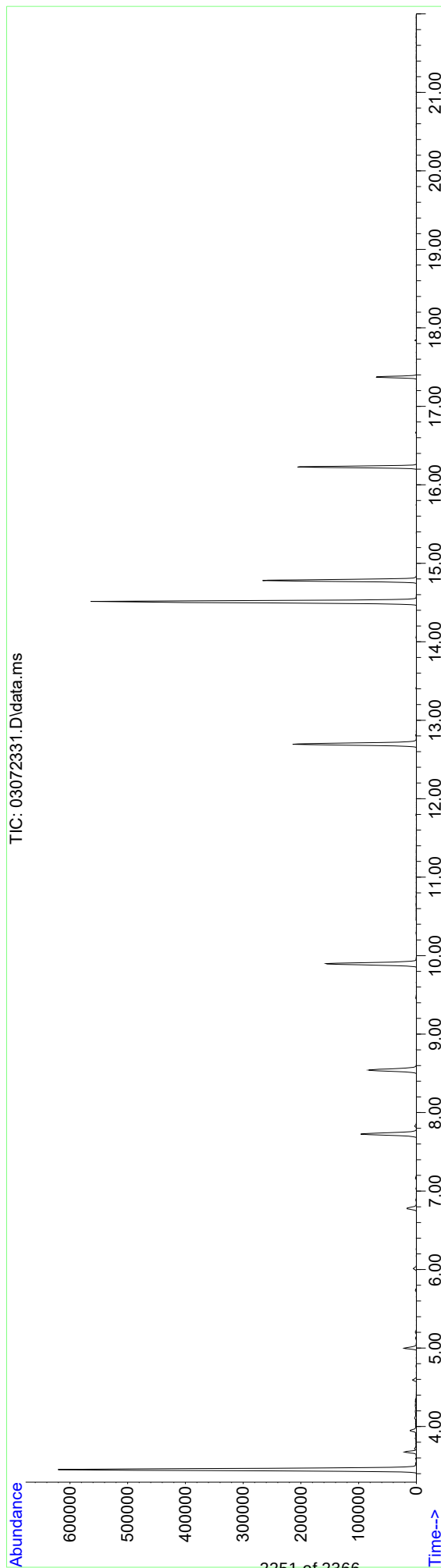
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data Path      : I:\MS21\DATA\2023_03\07\
Data File     : 03072331.D
Acq On       : 8 Mar 2023 11:37
Operator      : KM
Sample        : AC02225
Misc          : LL + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial     : 213 Sample Multiplier: 1

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Quant Time: Mar 08 12:02:52 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA 10-15
QLast Update : wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data File : I:\MS09\DATA\2023_03\07\03072326.D
 Acq On : 7 Mar 2023 22:29
 Sample : AS01189_30702
 Misc : S35-02212305

Vial: 12
 Operator: SC
 Inst : MS09

Quant Time: Mar 08 08:16:18 2023

 3/8/23

Quant Method : I:\MS09\METHODS\R9022723.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Tue Feb 28 08:30:18 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.20	130	178377	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	9.26	114	789789	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.80	54	175058	12.500	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.96	65	375848	12.446	ng	-0.04
Spiked Amount	12.500	Range	70 - 130	Recovery	=	99.60%
57) Toluene-d8 (SS2)	12.39	98	926158	13.923	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	111.36%
73) Bromofluorobenzene (SS3)	16.79	174	295719	10.902	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	87.20%

Target Compounds

						Qvalue
10) Ethanol	4.28	45	5211	0.308	ng	91
12) Acrolein	4.53	56	992	0.088	ng	86
13) Acetone	4.64	58	10912	0.851	ng	# 52
15) 2-Propanol (Isopropanol)	4.85	45	4498	0.090	ng	67
22) Carbon Disulfide	5.60	76	5418	0.088	ng	89
26) Vinyl Acetate	6.42	86	466	0.187	ng	# 39
27) 2-Butanone (MEK)	6.68	72	894	0.087	ng	# 36

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

Data File : I:\MS09\DATA\2023_03\07\03072326.D
Acq On : 7 Mar 2023 22:29
Sample : AS01189_30702
Misc : S35-02212305

Vial: 12
Operator: SC
Inst : MS09

Quant Time: Mar 08 08:16:18 2023

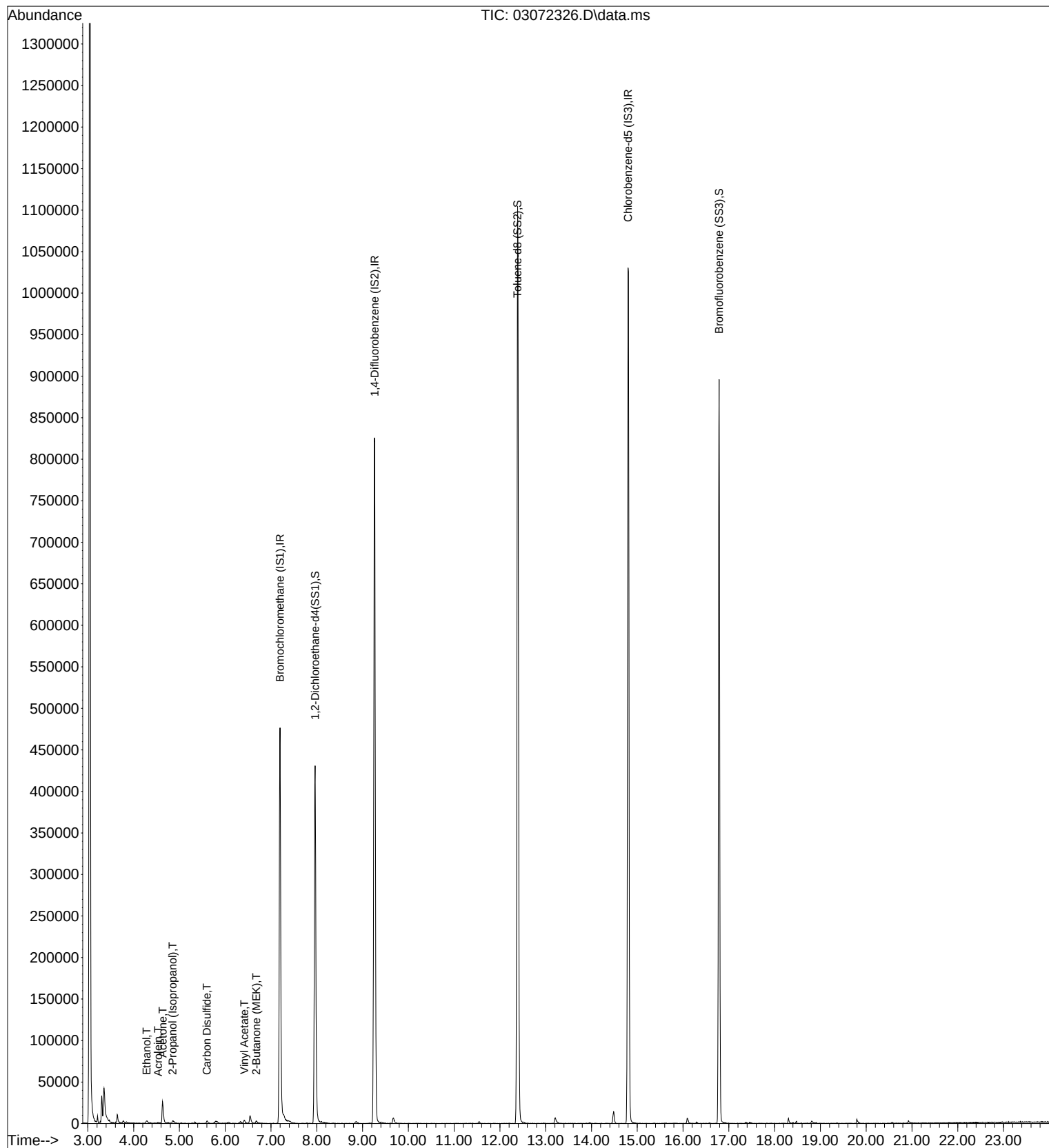
Quant Method : I:\MS09\METHODS\R9022723.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Tue Feb 28 08:30:18 2023

Response via : Initial Calibration

DataAcq Meth:T015.M



Data Path : I:\MS21\DATA\2023_03\08\
 Data File : 03082313.D
 Acq On : 8 Mar 2023 22:56
 Operator : KM
 Sample : AC02472
 Misc : SIM + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 9 Sample Multiplier: 1

APL 3/9/23

Quant Time: Mar 09 05:35:11 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.727	130	57909	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.896	114	211113	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	29130	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.545	65	91526	1030.96	pg	0.00
Spiked Amount 1000.000			Recovery	=	103.10%	
57) Toluene-d8 (SS2)	12.697	98	180386	876.17	pg	0.00
Spiked Amount 1000.000			Recovery	=	87.62%	
74) Bromofluorobenzene (SS3)	16.228	174	76986	947.32	pg	0.00
Spiked Amount 1000.000			Recovery	=	94.73%	
Target Compounds						Qvalue
2] * Propene	3.673	42	283	7.548	pg	# 13
3] * Dichlorodifluoromethane	3.720	85	1205	12.259	pg	99
4] * Chloromethane	3.846	50	358	7.929	pg	99
5] * 1,2-Dichloro-1,1,2,2...	3.936	85	256	4.208	pg	100
6] * Vinyl Chloride	4.037	62	134	2.490	pg	# 42
7] * 1,3-Butadiene	4.147	54	111	3.080	pg	82
8] * Bromomethane	4.362	94	162	4.696	pg	85
9] * Chloroethane	4.502	64	195	6.220	pg	# 42
10] * Ethanol	4.596	45	3762	182.213	pg	95
11] * Acetonitrile	4.768	41	618	8.316	pg	93
12] * Acrolein	4.878	56	275	9.272	pg	98
13] * Acetone	5.008	58	3093	77.452	pg	93
14] * Trichlorofluoromethane	5.126	101	949	7.564	pg	100
15] * 2-Propanol (Isopropa...	5.207	45	1840	51.742	pg	93
16] * Acrylonitrile	5.349	53	233	4.202	pg	93
17] * 1,1-Dichloroethene	5.647	96	127	2.130	pg	100
18] tert-Butanol	5.754	59	923	17.317	pg	# 69
19] * Methylene Chloride	5.734	84	476	7.835	pg	99
20] * 3-Chloro-1-propene (...)	5.846	41	87	2.274	pg	# 76
21] * Trichlorotrifluoroet...	5.982	151	291	4.570	pg	99
22] * Carbon Disulfide	6.016	76	3091	15.016	pg	100
23] * trans-1,2-Dichloroet...	6.581	96	137	2.268	pg	97
24] * 1,1-Dichloroethane	6.767	63	207	2.331	pg	99
25] * Methyl tert-Butyl Ether	6.892	73	295	1.912	pg	99
26] * Vinyl Acetate	6.892	86	146	33.043	pg	# 15
27] * 2-Butanone (MEK)	7.179	72	357	9.676	pg	85
28] * cis-1,2-Dichloroethene	7.565	96	140	2.183	pg	93
29] DIPE	7.838	45	739	5.394	pg	# 78
30] * Ethyl Acetate	7.831	61	460	41.606	pg	99
31] * n-Hexane	7.818	57	166	2.067	pg	# 53
32] * Chloroform	7.864	83	314	2.985	pg	87
34] * Tetrahydrofuran	8.344	71	176	5.551	pg	# 58
35] ETBE	8.424	87	231	4.295	pg	90
36] * 1,2-Dichloroethane	8.666	62	235	3.018	pg	97
38] * 1,1,1-Trichloroethane	8.972	97	280	5.417	pg	99
39] * Benzene	9.484	78	1013	5.391	pg	99
42] * Carbon Tetrachloride	9.656	117	338	14.137	pg	100
43] * Cyclohexane	9.818	84	264	3.620	pg	99
44] TAME	10.243	87	177	5.780	pg	93
45] * 1,2-Dichloropropane	10.423	63	158	3.765	pg	99
46] * Bromodichloromethane	10.619	83	285	7.257	pg	97
47] * Trichloroethene	10.691	130	224	3.465	pg	98
48] * 1,4-Dioxane	10.757	88	307	6.117	pg	89
49] Isooctane	10.771	56	185	2.972	pg	85

Data Path : I:\MS21\DATA\2023_03\08\
 Data File : 03082313.D
 Acq On : 8 Mar 2023 22:56
 Operator : KM
 Sample : AC02472
 Misc : SIM + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 09 05:35:11 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50]	* Methyl Methacrylate	10.953	69	282	11.186	pg	100
51]	* n-Heptane	11.083	71	141	2.543	pg	# 39
52]	* cis-1,3-Dichloropropene	11.680	75	105	2.914	pg	# 11
53]	* 4-Methyl-2-pentanone	11.793	58	507	13.400	pg	97
54]	* trans-1,3-Dichloropr...	12.275	75	84	3.141	pg	# 42
55]	* 1,1,2-Trichloroethane	12.475	97	144	3.187	pg	99
58]	* Toluene	12.810	91	863	4.077	pg	99
59]	* 2-Hexanone	13.179	58	363	8.926	pg	97
60]	* Dibromochloromethane	13.255	129	195	10.077	pg	98
61]	* 1,2-Dibromoethane	13.542	107	122	4.526	pg	92
62]	* n-Butyl Acetate	13.912	56	267	18.779	pg	89
63]	* n-Octane	14.005	85	73	1.565	pg	92
64]	* Tetrachloroethene	14.104	166	214	3.397	pg	95
65]	* Chlorobenzene	14.821	112	332	2.296	pg	94
66]	* Ethylbenzene	15.214	91	432	1.886	pg	98
67]	* m- & p-Xylenes	15.381	91	671	3.728	pg	99
68]	* Bromoform	15.417	173	153	11.128	pg	97
70]	* Styrene	15.721	104	216	1.765	pg	100
71]	* o-Xylene	15.822	91	332	1.780	pg	99
72]	* n-Nonane	16.067	57	97	1.485	pg	# 28
73]	* 1,1,2,2-Tetrachloroe...	15.798	83	245	3.931	pg	99
75]	* Cumene	16.363	105	494	1.966	pg	99
76]	* alpha-Pinene	16.705	93	212	1.872	pg	# 81
77]	* n-Propylbenzene	16.812	91	450	1.608	pg	98
78]	3-Ethyltoluene	16.938	105	321	1.398	pg	97
79]	* 4-Ethyltoluene	16.938	105	321	1.438	pg	97
80]	* 1,3,5-Trimethylbenzene	17.006	105	325	1.635	pg	100
83]	tert-Butylbenzene	17.352	134	118	2.443	pg	# 52
84]	* 1,2,4-Trimethylbenzene	17.352	105	348	1.728	pg	99
86]	* 1,3-Dichlorobenzene	17.470	146	166	1.331	pg	100
87]	* 1,4-Dichlorobenzene	17.530	146	134	1.107	pg	93
89]	sec-Butylbenzene	17.584	105	433	1.525	pg	95
91]	p-Isopropyltoluene	17.719	119	432	1.797	pg	100
92]	* 1,2-Dichlorobenzene	17.816	146	185	1.437	pg	98
93]	* D-Limonene	17.837	68	130	3.702	pg	89
94]	n-Butylbenzene	18.070	134	86	1.498	pg	95
95]	* 1,2-Dibromo-3-chloro...	18.187	157	227	17.127	pg	85
97]	* 1,2,4-Trichlorobenzene	19.326	180	165	1.991	pg	94
98]	* Naphthalene	19.435	128	180	1.001	pg	# 68
100]	* Hexachlorobutadiene	19.793	225	315	4.094	pg	98

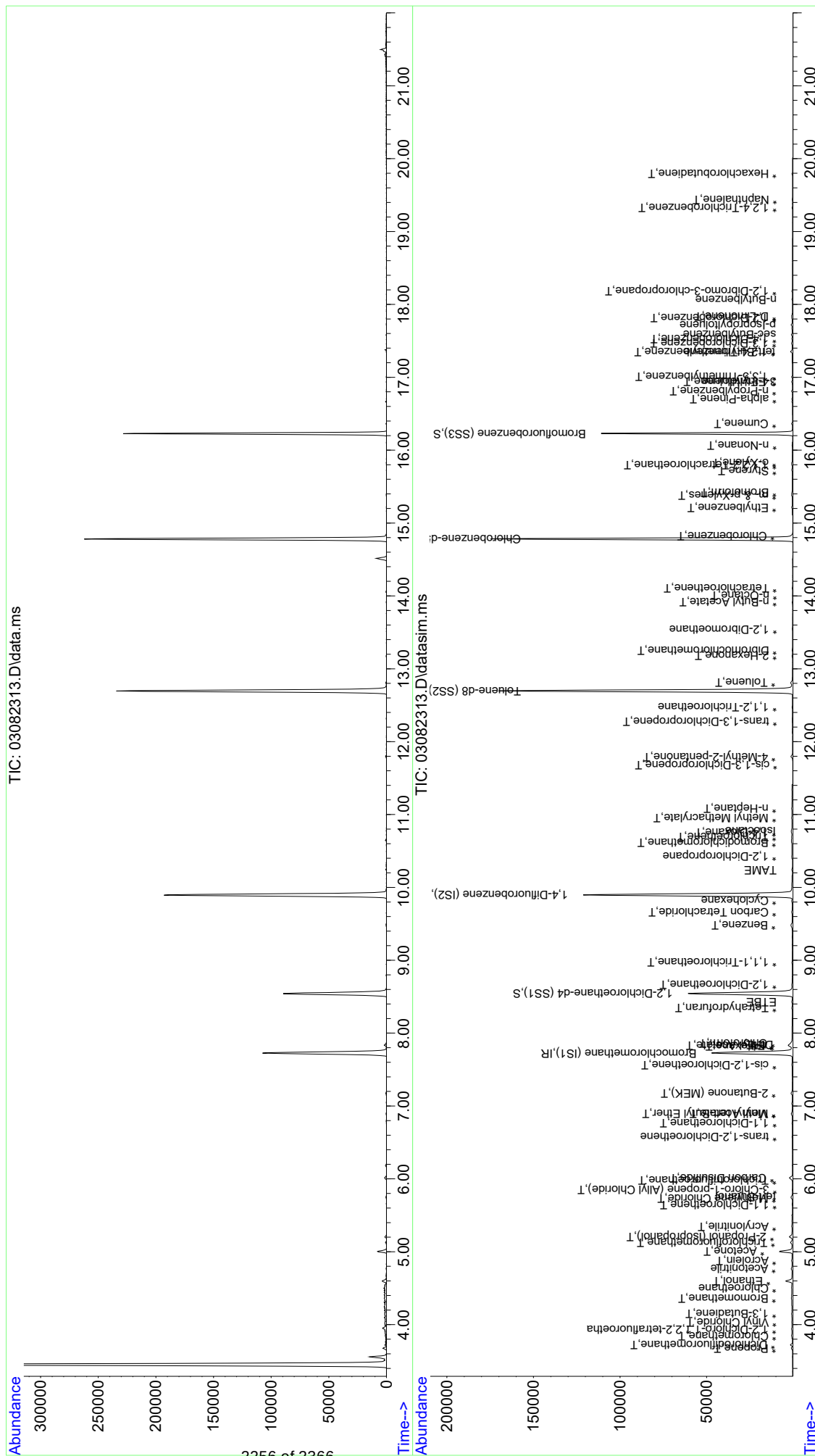
(#) = qualifier out of range (m) = manual integration (+) = signals summed


```

Data Path      : I:\MS21\DATA\2023_03\08\
Data File     : 03082313.D
Acq On       : 8 Mar 2023 22:56
Operator      : KM
Sample        : AC02472
MISC         : SIM + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial     : 9 Sample Multiplier: 1

```

Quant Time: Mar 09 05:35:11 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA 10-15
QLast Update : wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data Path : I:\MS21\DATA\2023_03\09\

Data File : 03092312.D

Acq On : 10 Mar 2023 00:25

Operator : KM

Sample : AC02069_OA01202,1335,1921,1540,680,1184 (6L24HR)

Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)

APL 3/10/23

ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 10 07:27:17 2023

Quant Method : I:\MS21\Methods\F21011723.M

Quant Title : EPA T0-15

QLast Update : Wed Jan 18 06:49:07 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.734	130	54407	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.901	114	179224	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	29009	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.550	65	83338	999.16	pg	0.00
Spiked Amount 1000.000			Recovery	=	99.92%	
57) Toluene-d8 (SS2)	12.697	98	171856	838.22	pg	0.00
Spiked Amount 1000.000			Recovery	=	83.82%	
74) Bromofluorobenzene (SS3)	16.228	174	77789	961.20	pg	0.00
Spiked Amount 1000.000			Recovery	=	96.12%	
Target Compounds						Qvalue
3] * Dichlorodifluoromethane	3.729	85	2309	25.002	pg	98
4] * Chloromethane	3.856	50	809	19.071	pg	97
5] * 1,2-Dichloro-1,1,2,2...	3.946	85	197	3.446	pg	92
6] * Vinyl Chloride	4.037	62	98	1.939	pg	# 42
7] * 1,3-Butadiene	4.152	54	64	1.890	pg	# 1
8] * Bromomethane	4.367	94	137	4.227	pg	98
9] * Chloroethane	4.502	64	117	3.972	pg	# 42
10] * Ethanol	4.606	45	6641	342.362	pg	98
11] * Acetonitrile	4.773	41	770	11.028	pg	# 83
12] * Acrolein	4.884	56	672	24.117	pg	97
13] * Acetone	5.014	58	11158	297.393	pg	93
14] * Trichlorofluoromethane	5.132	101	1595	13.531	pg	99
15] * 2-Propanol (Isopropa...	5.213	45	2312	69.200	pg	94
16] * Acrylonitrile	5.362	53	174	3.340	pg	99
18] tert-Butanol	5.764	59	1049	20.948	pg	# 64
19] * Methylene Chloride	5.744	84	4574	80.133	pg	100
20] * 3-Chloro-1-propene (...)	5.851	41	75	2.086	pg	# 26
21] * Trichlorotrifluoroet...	5.997	151	389	6.502	pg	97
22] * Carbon Disulfide	6.021	76	4644	24.013	pg	98
23] * trans-1,2-Dichloroet...	6.581	96	92	1.621	pg	96
24] * 1,1-Dichloroethane	6.762	63	129	1.546	pg	# 42
25] * Methyl tert-Butyl Ether	6.897	73	147	1.014	pg	# 62
26] * Vinyl Acetate	6.897	86	688	165.734	pg	# 1
27] * 2-Butanone (MEK)	7.179	72	985	28.414	pg	85
28] * cis-1,2-Dichloroethene	7.578	96	93	1.544	pg	98
29] DIPE	7.838	45	1411	10.961	pg	# 56
30] * Ethyl Acetate	7.838	61	1461	140.652	pg	97
31] * n-Hexane	7.825	57	942	12.484	pg	100
32] * Chloroform	7.864	83	312	3.157	pg	100
34] * Tetrahydrofuran	8.349	71	112	3.760	pg	98
35] ETBE	8.434	87	126	2.493	pg	85
36] * 1,2-Dichloroethane	8.671	62	197	2.693	pg	98
38] * 1,1,1-Trichloroethane	8.972	97	245	5.584	pg	100
39] * Benzene	9.489	78	1439	9.020	pg	97
42] * Carbon Tetrachloride	9.661	117	550	27.097	pg	96
43] * Cyclohexane	9.823	84	174	2.810	pg	97
44] TAME	10.243	87	89	3.424	pg	# 1
45] * 1,2-Dichloropropane	10.423	63	85	2.386	pg	# 23
46] * Bromodichloromethane	10.626	83	189	5.669	pg	99
47] * Trichloroethene	10.691	130	195	3.553	pg	90
48] * 1,4-Dioxane	10.764	88	146	3.427	pg	97
49] Isooctane	10.778	56	191	3.614	pg	80
50] * Methyl Methacrylate	10.952	69	172	8.037	pg	99
51] * n-Heptane	11.090	71	571	12.129	pg	99

Data Path : I:\MS21\DATA\2023_03\09\
 Data File : 03092312.D
 Acq On : 10 Mar 2023 00:25
 Operator : KM
 Sample : AC02069_OA01202,1335,1921,1540,680,1184 (6L24HR)
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 8 Sample Multiplier: 1

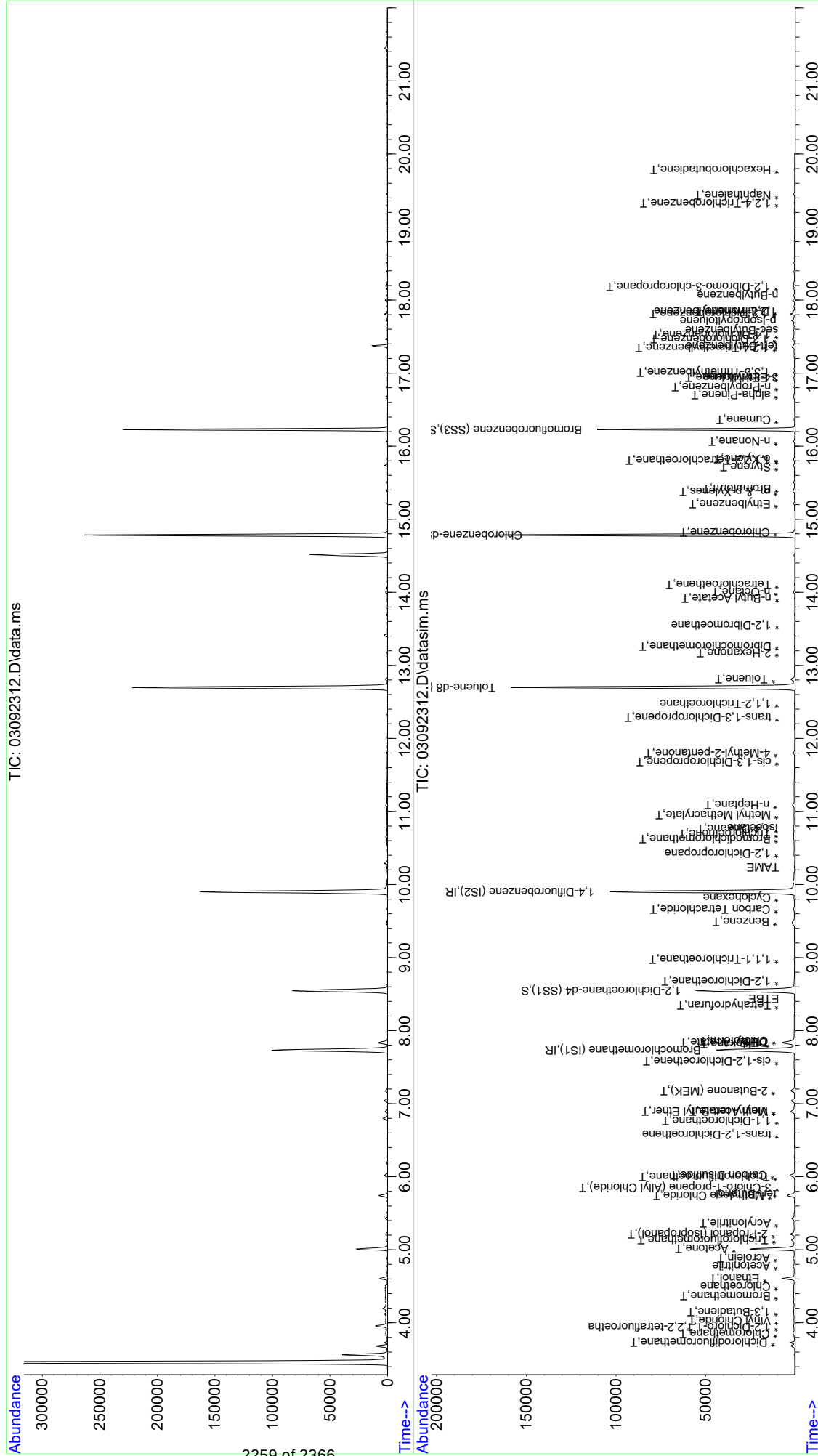
Quant Time: Mar 10 07:27:17 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
52]	* cis-1,3-Dichloropropene	11.680	75	72	2.353	pg	# 48
53]	* 4-Methyl-2-pentanone	11.798	58	471	14.663	pg	100
54]	* trans-1,3-Dichloropr...	12.285	75	61	2.687	pg	# 42
55]	* 1,1,2-Trichloroethane	12.475	97	82	2.138	pg	92
58]	* Toluene	12.810	91	2163	10.260	pg	98
59]	* 2-Hexanone	13.173	58	368	9.087	pg	94
60]	* Dibromochloromethane	13.260	129	176	9.133	pg	100
61]	* 1,2-Dibromoethane	13.547	107	76	2.831	pg	91
62]	* n-Butyl Acetate	13.912	56	199	14.055	pg	94
63]	* n-Octane	14.005	85	632	13.603	pg	98
64]	* Tetrachloroethene	14.109	166	241	3.842	pg	95
65]	* Chlorobenzene	14.826	112	299	2.076	pg	93
66]	* Ethylbenzene	15.214	91	574	2.517	pg	95
67]	* m- & p-Xylenes	15.381	91	1169	6.523	pg	95
68]	* Bromoform	15.423	173	134	9.786	pg	94
70]	* Styrene	15.721	104	285	2.338	pg	97
71]	* o-Xylene	15.822	91	526	2.832	pg	99
72]	* n-Nonane	16.067	57	369	5.673	pg	92
73]	* 1,1,2,2-Tetrachloroe...	15.804	83	176	2.836	pg	97
75]	* Cumene	16.363	105	383	1.531	pg	97
76]	* alpha-Pinene	16.700	93	347	3.077	pg	# 78
77]	* n-Propylbenzene	16.811	91	442	1.586	pg	95
78]	3-Ethyltoluene	16.938	105	342	1.496	pg	97
79]	* 4-Ethyltoluene	16.938	105	344	1.548	pg	97
80]	* 1,3,5-Trimethylbenzene	17.006	105	353	1.783	pg	99
83]	tert-Butylbenzene	17.373	134	334	6.943	pg	# 1
84]	* 1,2,4-Trimethylbenzene	17.351	105	706	3.521	pg	93
86]	* 1,3-Dichlorobenzene	17.470	146	149	1.199	pg	98
87]	* 1,4-Dichlorobenzene	17.529	146	153	1.269	pg	98
89]	sec-Butylbenzene	17.583	105	327	1.157	pg	95
90]	1,2,3-Trimethylbenzene	17.843	105	70	13.789	pg	# 53
91]	p-Isopropyltoluene	17.718	119	945	3.948	pg	97
92]	* 1,2-Dichlorobenzene	17.816	146	158	1.232	pg	95
93]	* D-Limonene	17.843	68	415	11.868	pg	88
94]	n-Butylbenzene	18.070	134	121	2.116	pg	# 33
95]	* 1,2-Dibromo-3-chloro...	18.187	157	171	12.956	pg	96
97]	* 1,2,4-Trichlorobenzene	19.326	180	162	1.963	pg	95
98]	* Naphthalene	19.434	128	241	1.346	pg	# 68
100]	* Hexachlorobutadiene	19.788	225	248	3.237	pg	95

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

Data Path : I:\MS21\DATA\2023_03\09\
Data File : 03092312.D
Acq On : 10 Mar 2023 00:25
Operator : KM
Sample : AC02069_OA01202,1335,1921,1540,680,1184 (6L24HR)
Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 10 07:27:17 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA T0-15
QLast Update : Wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data Path : I:\MS21\DATA\2023_03\09\
 Data File : 03092327.D
 Acq On : 10 Mar 2023 11:50
 Operator : KM
 Sample : AS01484
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 210 Sample Multiplier: 1

APL 3/10/23

Quant Time: Mar 10 12:14:57 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.734	130	55317	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.901	114	182826	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	28534	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.550	65	86490	1019.89	pg	0.00
Spiked Amount 1000.000			Recovery	=	101.99%	
57) Toluene-d8 (SS2)	12.697	98	173062	858.15	pg	0.00
Spiked Amount 1000.000			Recovery	=	85.81%	
74) Bromofluorobenzene (SS3)	16.228	174	76155	956.67	pg	0.00
Spiked Amount 1000.000			Recovery	=	95.67%	
Target Compounds						Qvalue
3] * Dichlorodifluoromethane	3.729	85	4754	50.631	pg	98
4] * Chloromethane	3.856	50	987	22.885	pg	98
5] * 1,2-Dichloro-1,1,2,2...	3.941	85	173	2.977	pg	99
7] * 1,3-Butadiene	4.147	54	6	0.174	pg	# 5
8] * Bromomethane	4.372	94	161	4.885	pg	96
9] * Chloroethane	4.513	64	135	4.508	pg	# 49
10] * Ethanol	4.606	45	6359	322.431	pg	98
11] * Acetonitrile	4.768	41	1472	20.735	pg	98
12] * Acrolein	4.884	56	440	15.531	pg	95
13] * Acetone	5.008	58	10246	268.593	pg	90
14] * Trichlorofluoromethane	5.132	101	3060	25.533	pg	99
15] * 2-Propanol (Isopropa...	5.213	45	2805	82.575	pg	95
16] * Acrylonitrile	5.356	53	79	1.491	pg	94
18] tert-Butanol	5.759	59	310	6.089	pg	# 1
19] * Methylene Chloride	5.744	84	9307	160.369	pg	99
21] * Trichlorotrifluoroet...	5.992	151	629	10.340	pg	100
22] * Carbon Disulfide	6.021	76	2157	10.970	pg	99
26] * Vinyl Acetate	6.897	86	355	84.110	pg	# 1
27] * 2-Butanone (MEK)	7.179	72	1175	33.338	pg	89
29] DIPE	7.838	45	1117	8.535	pg	# 46
30] * Ethyl Acetate	7.838	61	1356	128.396	pg	93
31] * n-Hexane	7.825	57	180	2.346	pg	# 53
32] * Chloroform	7.870	83	189	1.881	pg	92
34] * Tetrahydrofuran	8.354	71	93	3.070	pg	86
36] * 1,2-Dichloroethane	8.666	62	147	1.976	pg	# 1
39] * Benzene	9.489	78	1442	8.861	pg	97
42] * Carbon Tetrachloride	9.661	117	738	35.643	pg	94
46] * Bromodichloromethane	10.633	83	97	2.852	pg	# 18
48] * 1,4-Dioxane	10.757	88	210	4.831	pg	92
49] Isooctane	10.778	56	117	2.170	pg	88
50] * Methyl Methacrylate	10.960	69	67	3.069	pg	# 32
51] * n-Heptane	11.083	71	73	1.520	pg	# 39
53] * 4-Methyl-2-pentanone	11.804	58	279	8.515	pg	96
58] * Toluene	12.810	91	1934	9.327	pg	99
59] * 2-Hexanone	13.173	58	136	3.414	pg	# 48
60] * Dibromochloromethane	13.260	129	58	3.060	pg	# 11
64] * Tetrachloroethene	14.103	166	64	1.037	pg	87
65] * Chlorobenzene	14.826	112	112	0.791	pg	# 42
66] * Ethylbenzene	15.214	91	362	1.614	pg	99
67] * m- & p-Xylenes	15.381	91	764	4.334	pg	98
68] * Bromoform	15.423	173	68	5.049	pg	# 26
70] * Styrene	15.721	104	214	1.785	pg	98
71] * o-Xylene	15.822	91	313	1.713	pg	96
72] * n-Nonane	16.067	57	88	1.376	pg	# 28

Data Path : I:\MS21\DATA\2023_03\09\
 Data File : 03092327.D
 Acq On : 10 Mar 2023 11:50
 Operator : KM
 Sample : AS01484
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 210 Sample Multiplier: 1

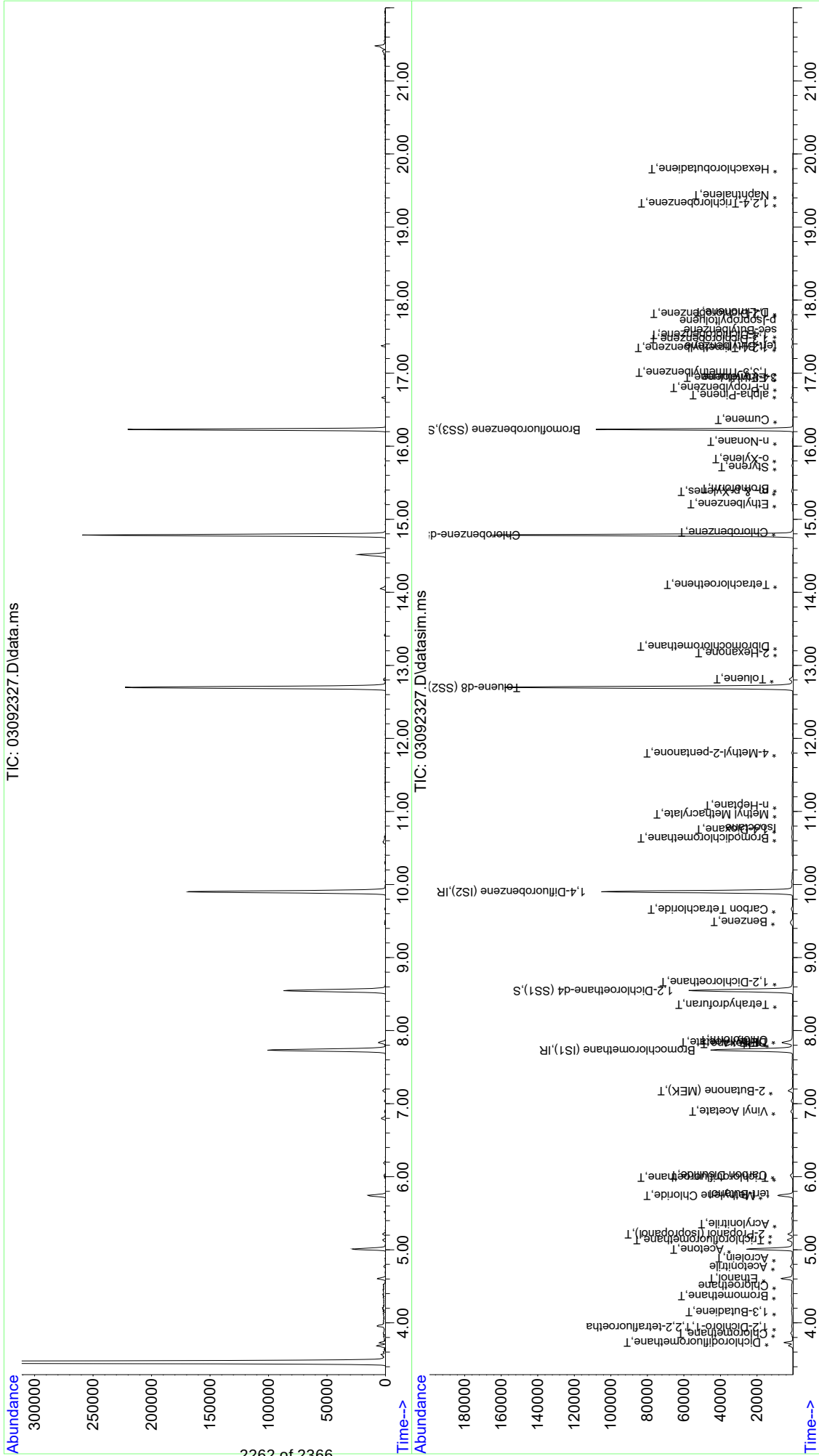
Quant Time: Mar 10 12:14:57 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75]	* Cumene	16.363	105	97	0.394	pg	# 48
76]	* alpha-Pinene	16.705	93	227	2.046	pg	# 82
77]	* n-Propylbenzene	16.807	91	161	0.587	pg	# 51
78]	3-Ethyltoluene	16.938	105	131	0.583	pg	# 44
79]	* 4-Ethyltoluene	16.938	105	131	0.599	pg	# 44
80]	* 1,3,5-Trimethylbenzene	17.006	105	124	0.637	pg	99
83]	tert-Butylbenzene	17.373	134	120	2.536	pg	# 1
84]	* 1,2,4-Trimethylbenzene	17.351	105	294	1.491	pg	87
86]	* 1,3-Dichlorobenzene	17.470	146	113	0.925	pg	86
87]	* 1,4-Dichlorobenzene	17.529	146	139	1.172	pg	100
89]	sec-Butylbenzene	17.583	105	69	0.248	pg	# 56
91]	p-Isopropyltoluene	17.718	119	338	1.436	pg	96
92]	* 1,2-Dichlorobenzene	17.816	146	91	0.721	pg	96
93]	* D-Limonene	17.837	68	81	2.355	pg	90
97]	* 1,2,4-Trichlorobenzene	19.326	180	213	2.624	pg	99
98]	* Naphthalene	19.434	128	328	1.863	pg	# 93
100]	* Hexachlorobutadiene	19.792	225	113	1.499	pg	# 41

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

Data Path : I:\MS21\DATA\2023_03\09\
Data File : 03092327.D
Acq On : 10 Mar 2023 11:50
Operator : KM
Sample : AS01484
Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial : 210 Sample Multiplier: 1

Quant Time: Mar 10 12:14:57 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA T0-15
QLast Update : Wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data Path : I:\MS21\DATA\2023_03\03\
 Data File : 03032331.D
 Acq On : 4 Mar 2023 14:20
 Operator : KM
 Sample : AC02447
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 213 Sample Multiplier: 1

APL 3/6/23

Quant Time: Mar 06 09:08:48 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA TO-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.727	130	59950	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.901	114	178874	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	27873	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.545	65	86055	936.34	pg	0.00
Spiked Amount 1000.000			Recovery	=	93.63%	
57) Toluene-d8 (SS2)	12.697	98	175296	889.84	pg	0.00
Spiked Amount 1000.000			Recovery	=	88.98%	
74) Bromofluorobenzene (SS3)	16.228	174	77740	999.74	pg	0.00
Spiked Amount 1000.000			Recovery	=	99.97%	

Target	Compounds					Qvalue
2]	* Propene	3.664	42	431	11.104 pg	# 7
3]	* Dichlorodifluoromethane	3.720	85	1136	11.164 pg	98
4]	* Chloromethane	3.851	50	769	16.452 pg	99
5]	* 1,2-Dichloro-1,1,2,2...	3.931	85	74	1.175 pg	# 42
7]	* 1,3-Butadiene	4.152	54	18	0.482 pg	# 5
9]	* Chloroethane	4.502	64	154	4.745 pg	# 42
10]	* Ethanol	4.596	45	3919	183.355 pg	100
11]	* Acetonitrile	4.768	41	968	12.582 pg	93
12]	* Acrolein	4.878	56	708	23.060 pg	99
13]	* Acetone	5.002	58	18331	443.400 pg	97
14]	* Trichlorofluoromethane	5.126	101	631	4.858 pg	98
15]	* 2-Propanol (Isopropa...	5.200	45	2661	72.282 pg	89
16]	* Acrylonitrile	5.343	53	61	1.063 pg	# 8
18]	tert-Butanol	5.749	59	661	11.979 pg	# 74
19]	* Methylene Chloride	5.734	84	1425	22.657 pg	98
21]	* Trichlorotrifluoroet...	5.982	151	139	2.109 pg	97
22]	* Carbon Disulfide	6.011	76	10322	48.437 pg	99
26]	* Vinyl Acetate	6.887	86	610	133.358 pg	# 1
27]	* 2-Butanone (MEK)	7.169	72	1174	30.735 pg	91
29]	DIPE	7.825	45	787	5.548 pg	# 36
30]	* Ethyl Acetate	7.825	61	1024	89.466 pg	93
31]	* n-Hexane	7.825	57	73	0.878 pg	# 53
32]	* Chloroform	7.864	83	114	1.047 pg	90
34]	* Tetrahydrofuran	8.344	71	157	4.783 pg	99
39]	* Benzene	9.484	78	1358	8.529 pg	97
42]	* Carbon Tetrachloride	9.656	117	144	7.108 pg	95
47]	* Trichloroethene	10.691	130	266	4.857 pg	100
48]	* 1,4-Dioxane	10.727	88	12326	289.851 pg	# 80
49]	Isooctane	10.720	56	318	6.029 pg	# 1
51]	* n-Heptane	11.083	71	55	1.171 pg	# 39
53]	* 4-Methyl-2-pentanone	11.792	58	327	10.200 pg	98
58]	* Toluene	12.810	91	1779	8.783 pg	97
59]	* 2-Hexanone	13.173	58	241	6.194 pg	95
60]	* Dibromochloromethane	13.254	129	57	3.078 pg	# 11
65]	* Chlorobenzene	14.826	112	105	0.759 pg	# 42
66]	* Ethylbenzene	15.214	91	212	0.967 pg	99
67]	* m- & p-Xylenes	15.381	91	512	2.973 pg	97
68]	* Bromoform	15.423	173	63	4.789 pg	# 26
70]	* Styrene	15.727	104	180	1.537 pg	87
71]	* o-Xylene	15.822	91	196	1.098 pg	94
72]	* n-Nonane	16.067	57	56	0.896 pg	# 28
75]	* Cumene	16.363	105	82	0.341 pg	# 48
76]	* alpha-Pinene	16.705	93	67	0.618 pg	# 30
77]	* n-Propylbenzene	16.807	91	134	0.500 pg	# 51

Data Path : I:\MS21\DATA\2023_03\03\
 Data File : 03032331.D
 Acq On : 4 Mar 2023 14:20
 Operator : KM
 Sample : AC02447
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 213 Sample Multiplier: 1

Quant Time: Mar 06 09:08:48 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78]	3-Ethyltoluene	16.933	105	91	0.414	pg	# 44
79]	* 4-Ethyltoluene	16.933	105	91	0.426	pg	# 44
80]	* 1,3,5-Trimethylbenzene	17.001	105	117	0.615	pg	# 28
83]	tert-Butylbenzene	17.373	134	230	4.976	pg	# 1
84]	* 1,2,4-Trimethylbenzene	17.357	105	234	1.215	pg	88
86]	* 1,3-Dichlorobenzene	17.529	146	67	0.561	pg	87
87]	* 1,4-Dichlorobenzene	17.529	146	67	0.579	pg	85
89]	sec-Butylbenzene	17.583	105	70	0.258	pg	# 56
91]	p-Isopropyltoluene	17.718	119	184	0.800	pg	# 48
93]	* D-Limonene	17.843	68	533	15.864	pg	94
97]	* 1,2,4-Trichlorobenzene	19.326	180	87	1.097	pg	97
98]	* Naphthalene	19.434	128	96	0.558	pg	# 68
100]	* Hexachlorobutadiene	19.792	225	119	1.616	pg	# 41

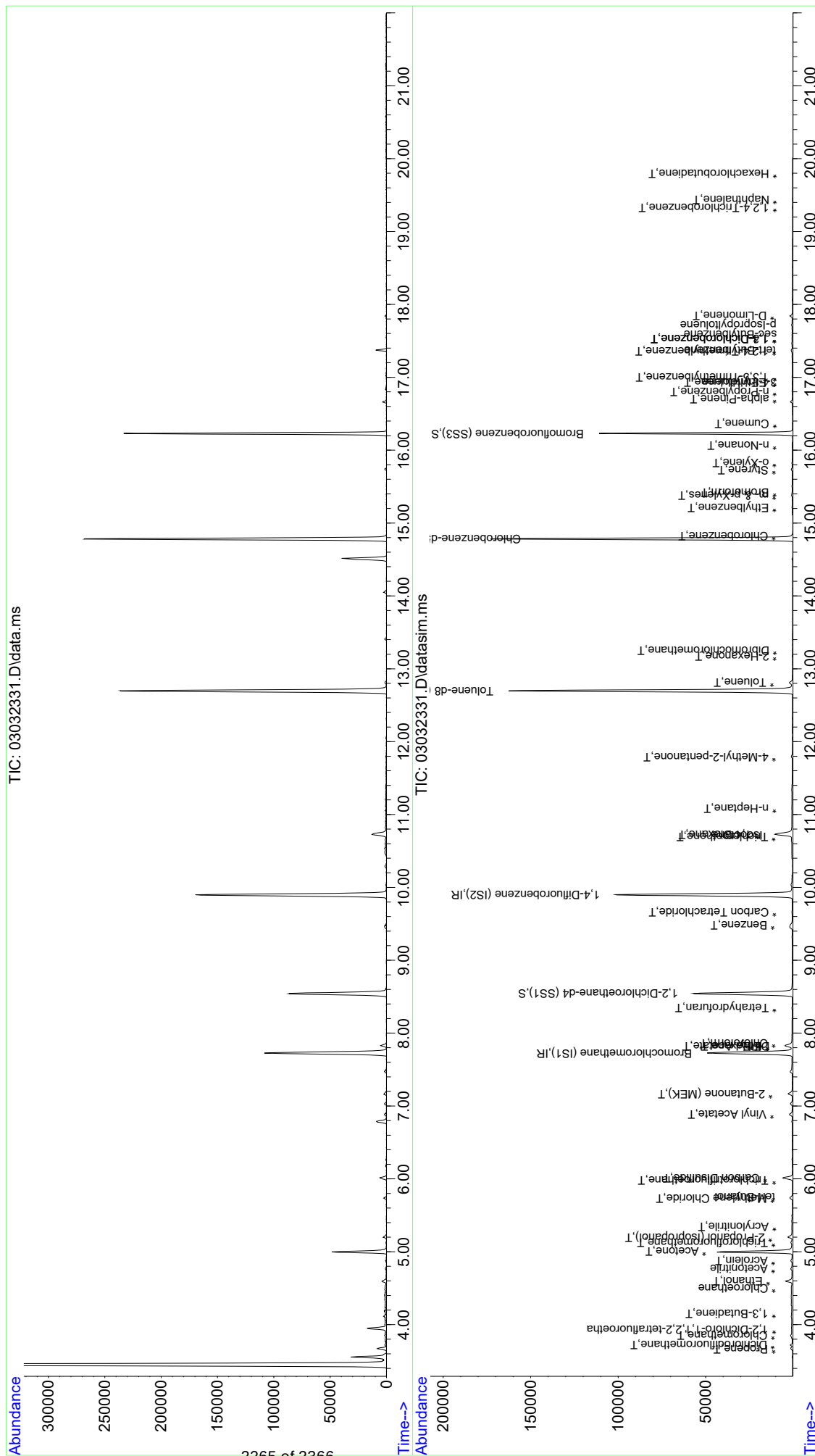
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data Path      : I:\MS21\DATA\2023_03\03\
Data File     : 0302331.D
Acq On       : 4 Mar 2023 14:20
Operator      : KM
Sample        : AC02447
Misc          : LL + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial     : 213 Sample Multiplier: 1

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Quant Time: Mar 06 09:08:48 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA 10-15
QLast Update : wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data Path : I:\MS21\DATA\2023_02\28\
 Data File : 02282315.D
 Acq On : 1 Mar 2023 00:14
 Operator : KM
 Sample : AS00640
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 11 Sample Multiplier: 1

APL 3/1/23

Quant Time: Mar 01 08:41:44 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.728	130	68650	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.901	114	208113	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	34715	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.545	65	103106	979.69	pg	0.00
Spiked Amount 1000.000			Recovery	=	97.97%	
57) Toluene-d8 (SS2)	12.697	98	205456	837.39	pg	0.00
Spiked Amount 1000.000			Recovery	=	83.74%	
74) Bromofluorobenzene (SS3)	16.228	174	80592	832.15	pg	0.00
Spiked Amount 1000.000			Recovery	=	83.21%	

Target	Compounds					Qvalue
3]	* Dichlorodifluoromethane	3.720	85	2987	25.634 pg	99
4]	* Chloromethane	3.851	50	955	17.842 pg	99
5]	* 1,2-Dichloro-1,1,2,2...	3.941	85	332	4.603 pg	96
6]	* Vinyl Chloride	4.032	62	177	2.775 pg	97
7]	* 1,3-Butadiene	4.142	54	161	3.768 pg	# 73
8]	* Bromomethane	4.367	94	218	5.330 pg	# 49
9]	* Chloroethane	4.502	64	166	4.466 pg	99
10]	* Ethanol	4.601	45	6105	249.432 pg	98
11]	* Acetonitrile	4.773	41	772	8.762 pg	98
12]	* Acrolein	4.878	56	877	24.944 pg	98
13]	* Acetone	5.008	58	8133	171.794 pg	95
14]	* Trichlorofluoromethane	5.126	101	2152	14.469 pg	99
15]	* 2-Propanol (Isopropa...	5.207	45	2956	70.119 pg	96
16]	* Acrylonitrile	5.356	53	261	3.970 pg	94
17]	* 1,1-Dichloroethene	5.652	96	138	1.953 pg	99
18]	tert-Butanol	5.754	59	668	10.572 pg	# 62
19]	* Methylene Chloride	5.735	84	2324	32.267 pg	99
20]	* 3-Chloro-1-propene (...)	5.846	41	96	2.116 pg	# 78
21]	* Trichlorotrifluoroet...	5.987	151	531	7.034 pg	100
22]	* Carbon Disulfide	6.016	76	4156	17.031 pg	99
23]	* trans-1,2-Dichloroet...	6.576	96	163	2.276 pg	91
24]	* 1,1-Dichloroethane	6.762	63	237	2.252 pg	93
25]	* Methyl tert-Butyl Ether	6.888	73	273	1.492 pg	97
26]	* Vinyl Acetate	6.893	86	393	75.029 pg	# 1
27]	* 2-Butanone (MEK)	7.174	72	855	19.547 pg	85
28]	* cis-1,2-Dichloroethene	7.566	96	153	2.013 pg	95
29]	DIPE	7.831	45	1433	8.822 pg	# 62
30]	* Ethyl Acetate	7.831	61	1399	106.740 pg	86
31]	* n-Hexane	7.818	57	253	2.657 pg	# 83
32]	* Chloroform	7.864	83	493	3.953 pg	95
34]	* Tetrahydrofuran	8.354	71	137	3.645 pg	99
35]	ETBE	8.435	87	191	2.996 pg	98
36]	* 1,2-Dichloroethane	8.666	62	324	3.510 pg	97
38]	* 1,1,1-Trichloroethane	8.962	97	292	5.731 pg	95
39]	* Benzene	9.484	78	1806	9.750 pg	99
42]	* Carbon Tetrachloride	9.662	117	560	23.760 pg	99
43]	* Cyclohexane	9.813	84	286	3.978 pg	96
44]	TAME	10.243	87	161	5.333 pg	# 30
45]	* 1,2-Dichloropropane	10.416	63	171	4.134 pg	96
46]	* Bromodichloromethane	10.626	83	352	9.092 pg	99
47]	* Trichloroethene	10.691	130	396	6.214 pg	97
48]	* 1,4-Dioxane	10.764	88	185	3.739 pg	97
49]	Isooctane	10.778	56	259	4.221 pg	# 65
50]	* Methyl Methacrylate	10.960	69	229	9.215 pg	97

Data Path : I:\MS21\DATA\2023_02\28\
 Data File : 02282315.D
 Acq On : 1 Mar 2023 00:14
 Operator : KM
 Sample : AS00640
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 11 Sample Multiplier: 1

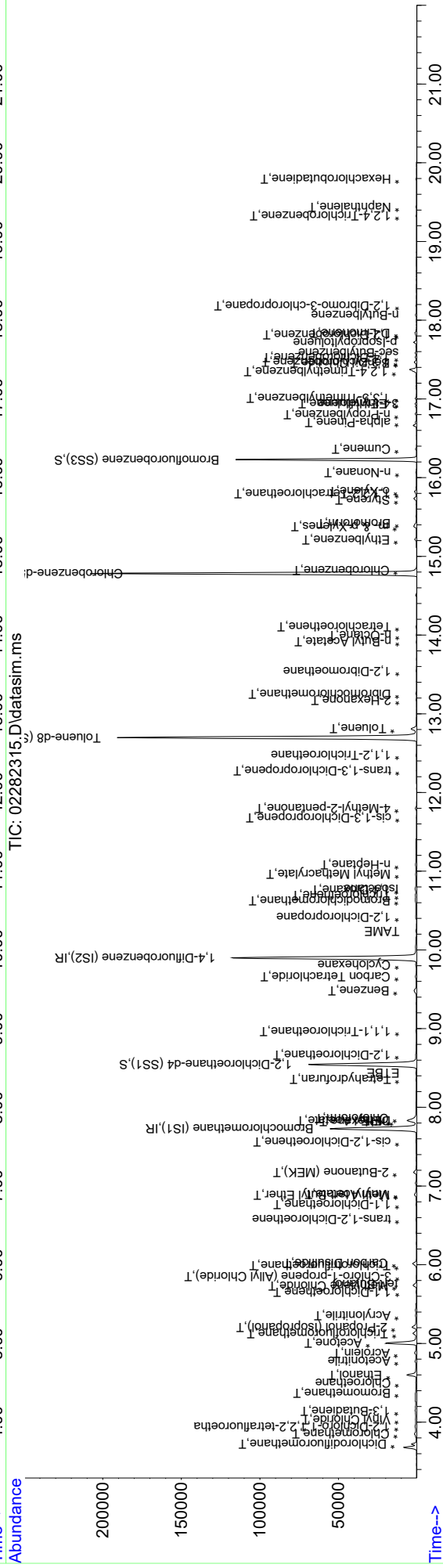
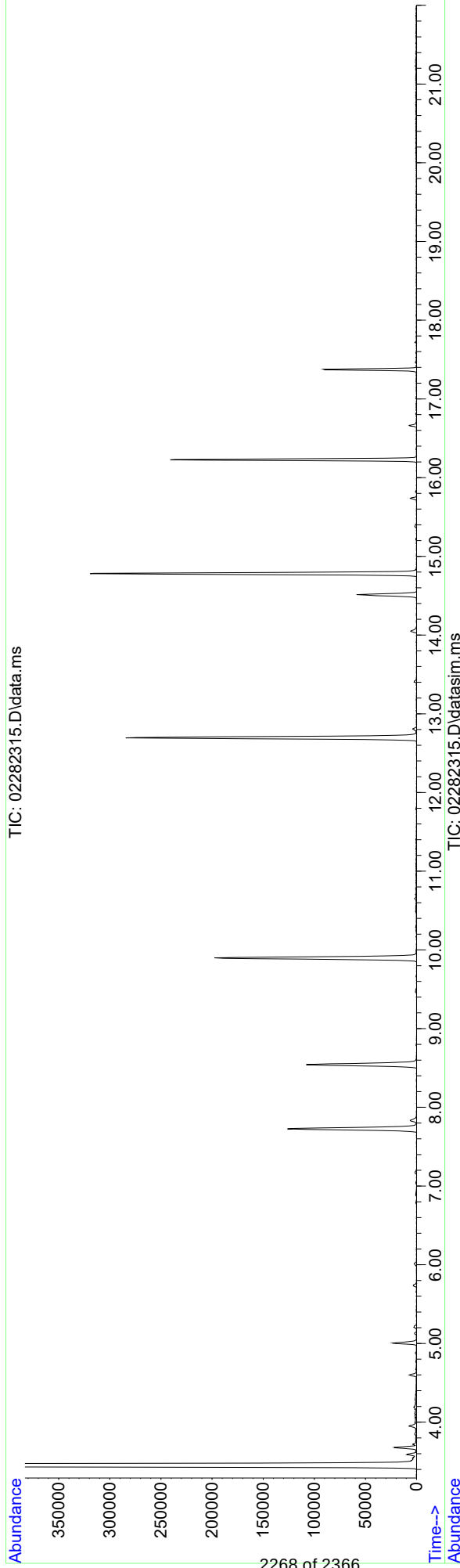
Quant Time: Mar 01 08:41:44 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51]	* n-Heptane	11.083	71	202	3.695	pg	89
52]	* cis-1,3-Dichloropropene	11.680	75	148	4.166	pg	85
53]	* 4-Methyl-2-pentanone	11.798	58	435	11.662	pg	95
54]	* trans-1,3-Dichloropr...	12.275	75	129	4.894	pg	# 42
55]	* 1,1,2-Trichloroethane	12.475	97	171	3.839	pg	93
58]	* Toluene	12.810	91	3638	14.421	pg	99
59]	* 2-Hexanone	13.173	58	252	5.200	pg	95
60]	* Dibromochloromethane	13.255	129	329	14.267	pg	99
61]	* 1,2-Dibromoethane	13.542	107	175	5.448	pg	97
62]	* n-Butyl Acetate	13.912	56	208	12.276	pg	97
63]	* n-Octane	14.000	85	120	2.158	pg	95
64]	* Tetrachloroethene	14.104	166	294	3.917	pg	97
65]	* Chlorobenzene	14.826	112	524	3.040	pg	99
66]	* Ethylbenzene	15.214	91	1050	3.847	pg	98
67]	* m- & p-Xylenes	15.381	91	2405	11.214	pg	98
68]	* Bromoform	15.423	173	228	13.915	pg	94
70]	* Styrene	15.721	104	688	4.717	pg	98
71]	* o-Xylene	15.822	91	951	4.278	pg	100
72]	* n-Nonane	16.067	57	162	2.081	pg	100
73]	* 1,1,2,2-Tetrachloroe...	15.798	83	318	4.281	pg	93
75]	* Cumene	16.363	105	562	1.877	pg	96
76]	* alpha-Pinene	16.705	93	404	2.993	pg	# 73
77]	* n-Propylbenzene	16.807	91	706	2.116	pg	97
78]	3-Ethyltoluene	16.938	105	610	2.229	pg	98
79]	* 4-Ethyltoluene	16.938	105	610	2.294	pg	99
80]	* 1,3,5-Trimethylbenzene	17.006	105	477	2.013	pg	99
84]	* 1,2,4-Trimethylbenzene	17.352	105	1513	6.306	pg	89
85]	* Benzyl Chloride	17.460	126	84	9.963	pg	80
86]	* 1,3-Dichlorobenzene	17.470	146	535	3.599	pg	99
87]	* 1,4-Dichlorobenzene	17.530	146	428	2.967	pg	96
89]	sec-Butylbenzene	17.584	105	553	1.634	pg	99
91]	p-Isopropyltoluene	17.719	119	1050	3.666	pg	96
92]	* 1,2-Dichlorobenzene	17.816	146	292	1.903	pg	98
93]	* D-Limonene	17.837	68	332	7.934	pg	91
94]	n-Butylbenzene	18.070	134	136	1.987	pg	72
95]	* 1,2-Dibromo-3-chloro...	18.187	157	186	11.776	pg	85
97]	* 1,2,4-Trichlorobenzene	19.326	180	189	1.914	pg	96
98]	* Naphthalene	19.435	128	382	1.783	pg	96
100]	* Hexachlorobutadiene	19.793	225	286	3.119	pg	99

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

Data Path : I:\MS21\DATA\2023_02\28\
Data File : 02282315.D
Acq On : 1 Mar 2023 00:14
Operator : KM
Sample : AS00640
Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 01 08:41:44 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA T0-15
QLast Update : Wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data File : I:\MS09\DATA\2023_03\09\03092331.D
 Acq On : 10 Mar 2023 10:40
 Sample : AC02389
 Misc : S35-02212305

Vial: 14
 Operator: SC
 Inst : MS09

Quant Time: Mar 10 11:01:22 2023

Quant Method : I:\MS09\METHODS\R9022723.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Tue Feb 28 08:30:18 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

 3/10/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.20	130	169524	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	9.26	114	756824	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.81	54	172909	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.96	65	364272	12.692	ng	-0.04
Spiked Amount	12.500	Range	70 - 130	Recovery	=	101.52%
57) Toluene-d8 (SS2)	12.39	98	889903	13.545	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	108.32%
73) Bromofluorobenzene (SS3)	16.79	174	281222	10.497	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	84.00%

Target Compounds

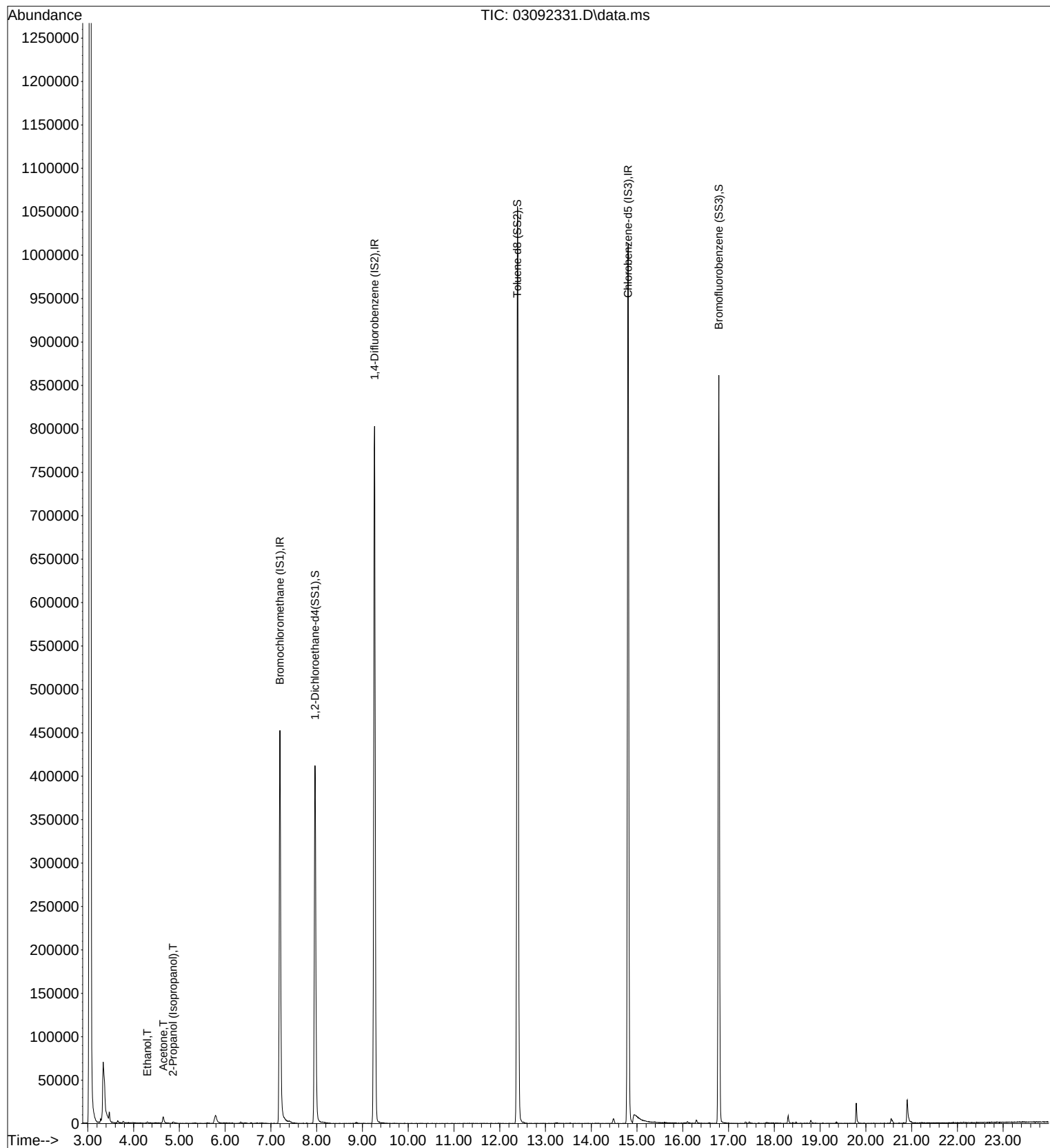
					Qvalue
10) Ethanol	4.30	45	1724	0.107 ng	95
13) Acetone	4.65	58	2589	0.212 ng	97
15) 2-Propanol (Isopropanol)	4.86	45	2464	0.052 ng	85

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

Data File : I:\MS09\DATA\2023_03\09\03092331.D
Acq On : 10 Mar 2023 10:40
Sample : AC02389
Misc : S35-02212305

Vial: 14
Operator: SC
Inst : MS09

Quant Time: Mar 10 11:01:22 2023
Quant Method : I:\MS09\METHODS\R9022723.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Tue Feb 28 08:30:18 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data Path : I:\MS21\DATA\2023_03\07\
 Data File : 03072319.D
 Acq On : 7 Mar 2023 22:41
 Operator : KM
 Sample : AC01918
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 10 Sample Multiplier: 1

APL 3/8/23

Quant Time: Mar 08 06:57:24 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.727	130	50197	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.896	114	169136	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	27971	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.545	65	80463	1045.60	pg	0.00
Spiked Amount 1000.000			Recovery	=	104.56%	
57) Toluene-d8 (SS2)	12.697	98	163080	824.93	pg	0.00
Spiked Amount 1000.000			Recovery	=	82.49%	
74) Bromofluorobenzene (SS3)	16.228	174	71762	919.63	pg	0.00
Spiked Amount 1000.000			Recovery	=	91.96%	

Target	Compounds					Qvalue
2]	* Propene	3.677	42	338	10.400 pg	# 1
3]	* Dichlorodifluoromethane	3.720	85	1740	20.421 pg	99
4]	* Chloromethane	3.846	50	418	10.680 pg	98
5]	* 1,2-Dichloro-1,1,2,2...	3.936	85	58	1.100 pg	# 42
7]	* 1,3-Butadiene	4.152	54	11	0.352 pg	# 5
10]	* Ethanol	4.596	45	12466	696.557 pg	99
11]	* Acetonitrile	4.768	41	1038	16.113 pg	99
12]	* Acrolein	4.878	56	273	10.619 pg	97
13]	* Acetone	5.002	58	4834	139.646 pg	88
14]	* Trichlorofluoromethane	5.126	101	987	9.076 pg	99
15]	* 2-Propanol (Isopropa...	5.200	45	6405	207.785 pg	89
16]	* Acrylonitrile	5.349	53	64	1.331 pg	93
18]	tert-Butanol	5.754	59	428	9.264 pg	# 1
19]	* Methylene Chloride	5.734	84	9532	180.999 pg	100
21]	* Trichlorotrifluoroet...	5.987	151	200	3.623 pg	100
22]	* Carbon Disulfide	6.016	76	2854	15.995 pg	98
26]	* Vinyl Acetate	6.882	86	263	68.668 pg	# 1
27]	* 2-Butanone (MEK)	7.169	72	492	15.383 pg	87
29]	DIPE	7.831	45	423	3.562 pg	# 36
30]	* Ethyl Acetate	7.831	61	510	53.216 pg	94
31]	* n-Hexane	7.818	57	82	1.178 pg	# 53
32]	* Chloroform	7.864	83	88	0.965 pg	99
34]	* Tetrahydrofuran	8.344	71	65	2.365 pg	89
39]	* Benzene	9.484	78	743	4.935 pg	98
42]	* Carbon Tetrachloride	9.656	117	225	11.746 pg	100
46]	* Bromodichloromethane	10.619	83	76	2.415 pg	# 18
48]	* 1,4-Dioxane	10.749	88	555	13.802 pg	# 75
49]	Isooctane	10.778	56	69	1.384 pg	# 37
53]	* 4-Methyl-2-pentanone	11.798	58	269	8.874 pg	99
58]	* Toluene	12.805	91	1901	9.352 pg	100
59]	* 2-Hexanone	13.173	58	101	2.587 pg	# 48
60]	* Dibromochloromethane	13.260	129	58	3.121 pg	# 11
65]	* Chlorobenzene	14.826	112	89	0.641 pg	# 42
66]	* Ethylbenzene	15.214	91	209	0.950 pg	91
67]	* m- & p-Xylenes	15.381	91	477	2.760 pg	100
68]	* Bromoform	15.423	173	62	4.696 pg	# 26
70]	* Styrene	15.721	104	152	1.293 pg	98
71]	* o-Xylene	15.822	91	191	1.066 pg	98
75]	* Cumene	16.363	105	81	0.336 pg	# 48
76]	* alpha-Pinene	16.705	93	92	0.846 pg	# 70
77]	* n-Propylbenzene	16.811	91	123	0.458 pg	# 51
78]	3-Ethyltoluene	16.938	105	101	0.458 pg	# 44
79]	* 4-Ethyltoluene	16.938	105	101	0.471 pg	# 44
80]	* 1,3,5-Trimethylbenzene	17.006	105	94	0.492 pg	# 28

Data Path : I:\MS21\DATA\2023_03\07\
 Data File : 03072319.D
 Acq On : 7 Mar 2023 22:41
 Operator : KM
 Sample : AC01918
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 08 06:57:24 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
84]	* 1,2,4-Trimethylbenzene	17.351	105	201	1.040	pg	92
86]	* 1,3-Dichlorobenzene	17.470	146	60	0.501	pg #	18
87]	* 1,4-Dichlorobenzene	17.529	146	64	0.551	pg #	18
89]	sec-Butylbenzene	17.578	105	68	0.249	pg #	56
91]	p-Isopropyltoluene	17.718	119	190	0.823	pg #	48
92]	* 1,2-Dichlorobenzene	17.816	146	55	0.445	pg #	18
93]	* D-Limonene	17.837	68	409	12.130	pg	88
97]	* 1,2,4-Trichlorobenzene	19.321	180	81	1.018	pg	89
98]	* Naphthalene	19.439	128	181	1.049	pg #	68
100]	* Hexachlorobutadiene	19.792	225	96	1.299	pg #	41

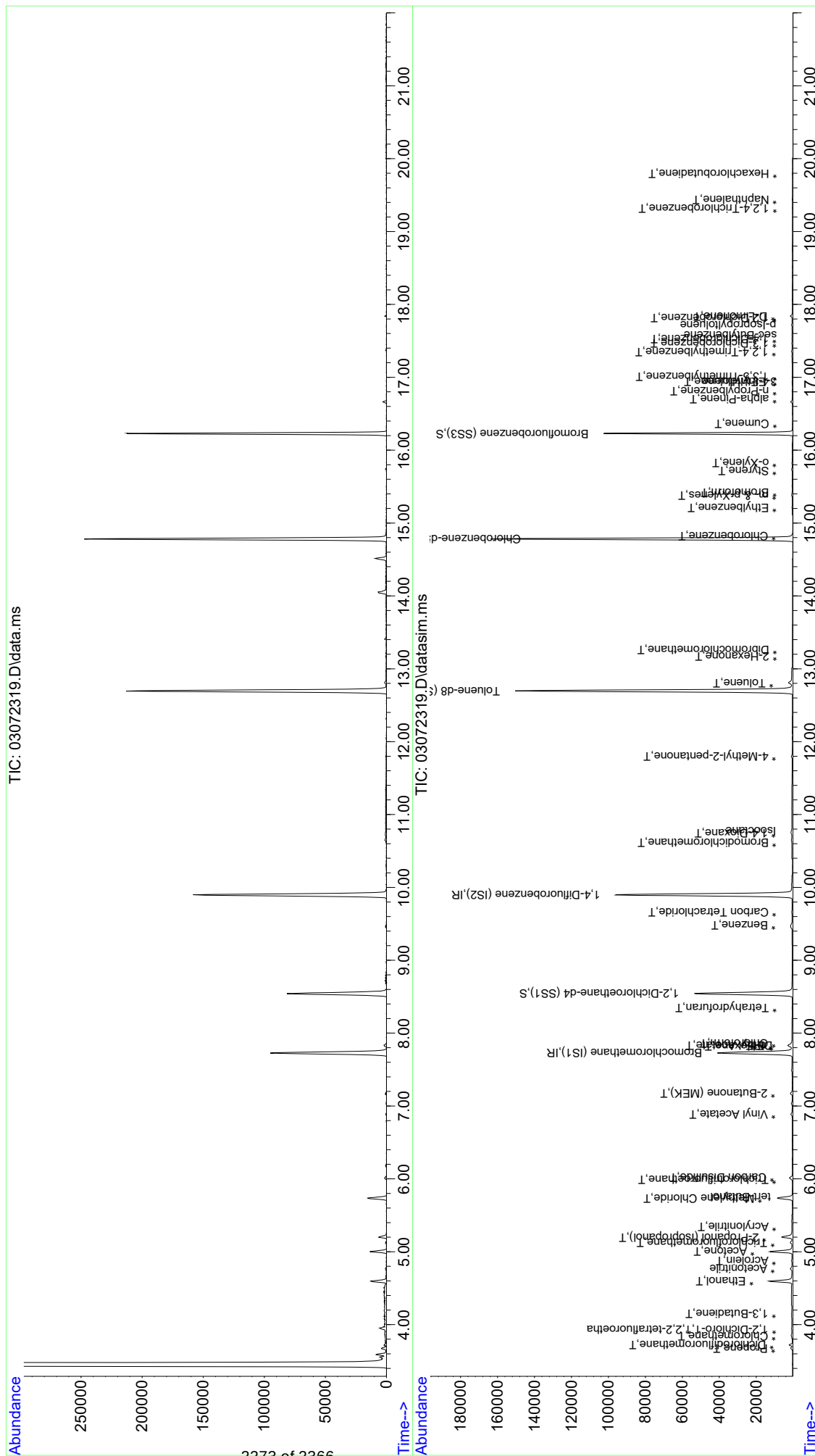
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data Path      : I:\MS21\DATA\2023_03\07\
Data File     : 03072319.D
Acq On       : 7 Mar 2023 22:41
Operator      : KM
Sample        : AC01918
Msc          : LL + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial     : 10 Sample Multiplier: 1

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Quant Time: Mar 08 06:57:24 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA 10-15
Quant Update : wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data File : I:\MS09\DATA\2023_03\08\03082326.D
 Acq On : 8 Mar 2023 23:48
 Sample : AS01009_30710
 Misc : S35-02212305

Vial: 15
 Operator: SC
 Inst : MS09

Quant Time: Mar 09 08:42:13 2023

Quant Method : I:\MS09\METHODS\R9022723.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Tue Feb 28 08:30:18 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

 3/9/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.20	130	171331	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	9.26	114	783131	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.80	54	172690	12.500	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.96	65	373450	12.875	ng	-0.04
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.96%
57) Toluene-d8 (SS2)	12.39	98	915313	13.949	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	111.60%
73) Bromofluorobenzene (SS3)	16.79	174	283620	10.600	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	84.80%

Target Compounds

						Qvalue
2) Propene	3.31	42	1445	0.063	ng	87
10) Ethanol	4.30	45	2119	0.130	ng	89
13) Acetone	4.65	58	4503	0.365	ng	93
15) 2-Propanol (Isopropanol)	4.87	45	2746	0.057	ng	# 53
22) Carbon Disulfide	5.60	76	16017	0.271	ng	96

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

Data File : I:\MS09\DATA\2023_03\08\03082326.D
Acq On : 8 Mar 2023 23:48
Sample : AS01009_30710
Misc : S35-02212305

Vial: 15
Operator: SC
Inst : MS09

Quant Time: Mar 09 08:42:13 2023

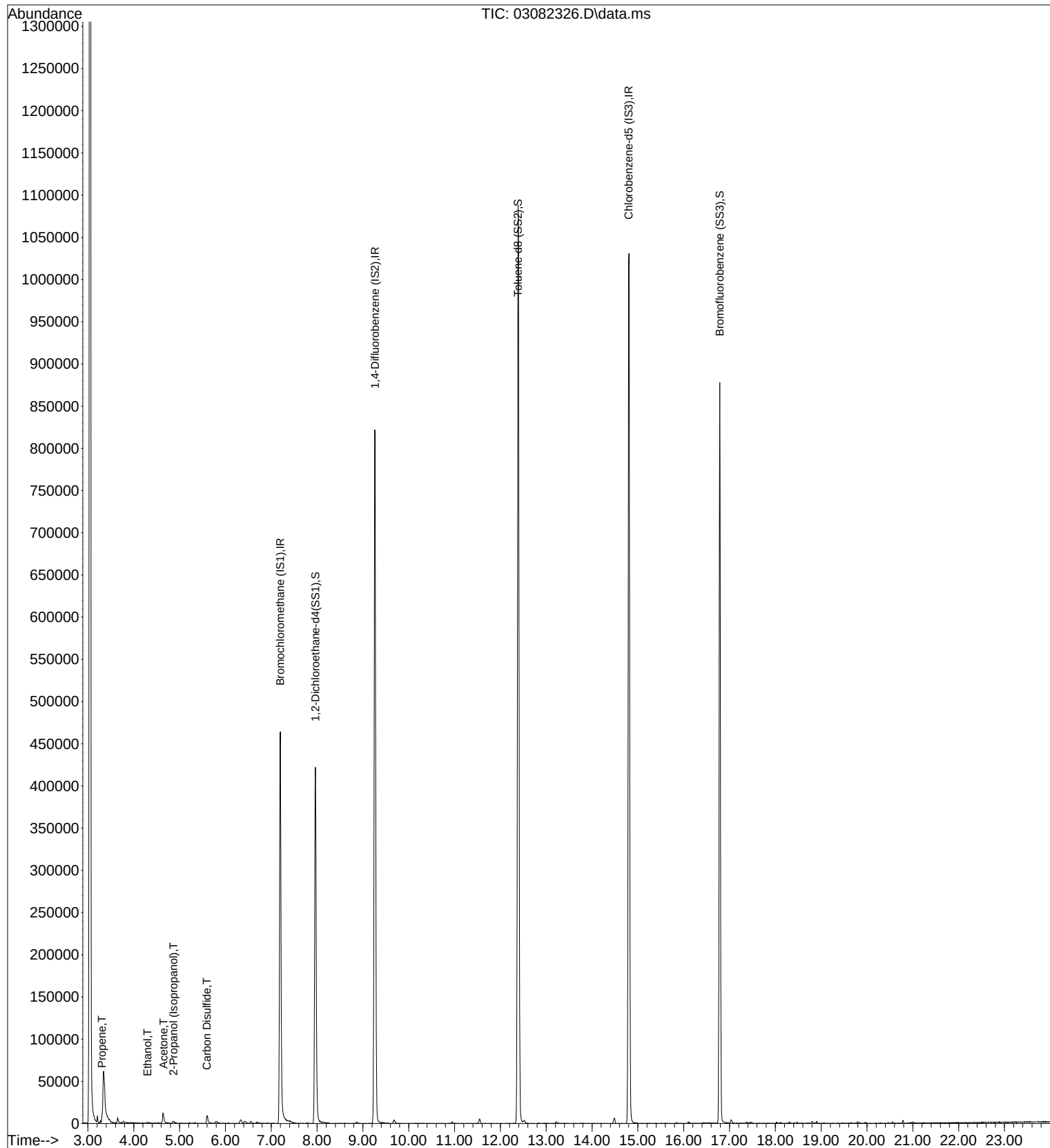
Quant Method : I:\MS09\METHODS\R9022723.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Tue Feb 28 08:30:18 2023

Response via : Initial Calibration

DataAcq Meth:T015.M



Data Path : I:\MS21\DATA\2023_03\03\
 Data File : 03032322.D
 Acq On : 4 Mar 2023 7:35
 Operator : KM
 Sample : AC02414
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 203 Sample Multiplier: 1

APL 3/6/23

Quant Time: Mar 06 08:22:23 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA TO-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.727	130	64095	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.896	114	192573	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	31595	1000.00	pg	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.540	65	92744	943.86	pg	0.00
Spiked Amount 1000.000			Recovery	=	94.39%	
57) Toluene-d8 (SS2)	12.697	98	189065	846.68	pg	0.00
Spiked Amount 1000.000			Recovery	=	84.67%	
74) Bromofluorobenzene (SS3)	16.228	174	79161	898.09	pg	0.00
Spiked Amount 1000.000			Recovery	=	89.81%	

Target Compounds						Qvalue
3] * Dichlorodifluoromethane	3.716	85	5952	54.708	pg	99
4] * Chloromethane	3.846	50	2514	50.307	pg	99
5] * 1,2-Dichloro-1,1,2,2...	3.931	85	247	3.668	pg	95
7] * 1,3-Butadiene	4.147	54	67	1.679	pg	# 5
8] * Bromomethane	4.356	94	350	9.166	pg	98
9] * Chloroethane	4.502	64	258	7.435	pg	98
10] * Ethanol	4.591	45	32676	1429.920	pg	99
11] * Acetonitrile	4.762	41	1691	20.557	pg	97
12] * Acrolein	4.878	56	1002	30.525	pg	98
13] * Acetone	4.995	58	15037	340.201	pg	97
14] * Trichlorofluoromethane	5.126	101	3692	26.587	pg	98
15] * 2-Propanol (Isopropa...	5.200	45	6095	154.854	pg	95
16] * Acrylonitrile	5.349	53	88	1.434	pg	# 78
18] tert-Butanol	5.744	59	909	15.408	pg	# 60
19] * Methylene Chloride	5.734	84	3292	48.956	pg	98
21] * Trichlorotrifluoroet...	5.982	151	803	11.393	pg	98
22] * Carbon Disulfide	6.011	76	2576	11.306	pg	98
26] * Vinyl Acetate	6.882	86	870	177.898	pg	# 1
27] * 2-Butanone (MEK)	7.164	72	1347	32.984	pg	93
30] * Ethyl Acetate	7.825	61	3560	290.921	pg	93
31] * n-Hexane	7.818	57	250	2.812	pg	# 50
32] * Chloroform	7.864	83	1100	9.447	pg	99
34] * Tetrahydrofuran	8.344	71	133	3.790	pg	93
36] * 1,2-Dichloroethane	8.656	62	161	1.868	pg	91
39] * Benzene	9.484	78	2464	14.375	pg	98
42] * Carbon Tetrachloride	9.656	117	800	36.682	pg	100
46] * Bromodichloromethane	10.626	83	118	3.294	pg	91
47] * Trichloroethene	10.691	130	532	9.022	pg	95
48] * 1,4-Dioxane	10.757	88	435	9.502	pg	95
49] Isooctane	10.778	56	227	3.998	pg	94
51] * n-Heptane	11.083	71	127	2.511	pg	# 39
53] * 4-Methyl-2-pentanone	11.792	58	308	8.924	pg	100
58] * Toluene	12.805	91	3701	16.119	pg	97
59] * 2-Hexanone	13.173	58	223	5.056	pg	99
60] * Dibromochloromethane	13.254	129	86	4.098	pg	98
62] * n-Butyl Acetate	13.907	56	53	3.437	pg	# 30
63] * n-Octane	14.000	85	63	1.245	pg	# 16
64] * Tetrachloroethene	14.109	166	247	3.615	pg	99
65] * Chlorobenzene	14.821	112	161	1.026	pg	# 42
66] * Ethylbenzene	15.214	91	595	2.395	pg	99
67] * m- & p-Xylenes	15.381	91	1249	6.399	pg	97
68] * Bromoform	15.417	173	94	6.303	pg	96
70] * Styrene	15.721	104	298	2.245	pg	93
71] * o-Xylene	15.822	91	473	2.338	pg	97

Data Path : I:\MS21\DATA\2023_03\03\
 Data File : 03032322.D
 Acq On : 4 Mar 2023 7:35
 Operator : KM
 Sample : AC02414
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 203 Sample Multiplier: 1

Quant Time: Mar 06 08:22:23 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA TO-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

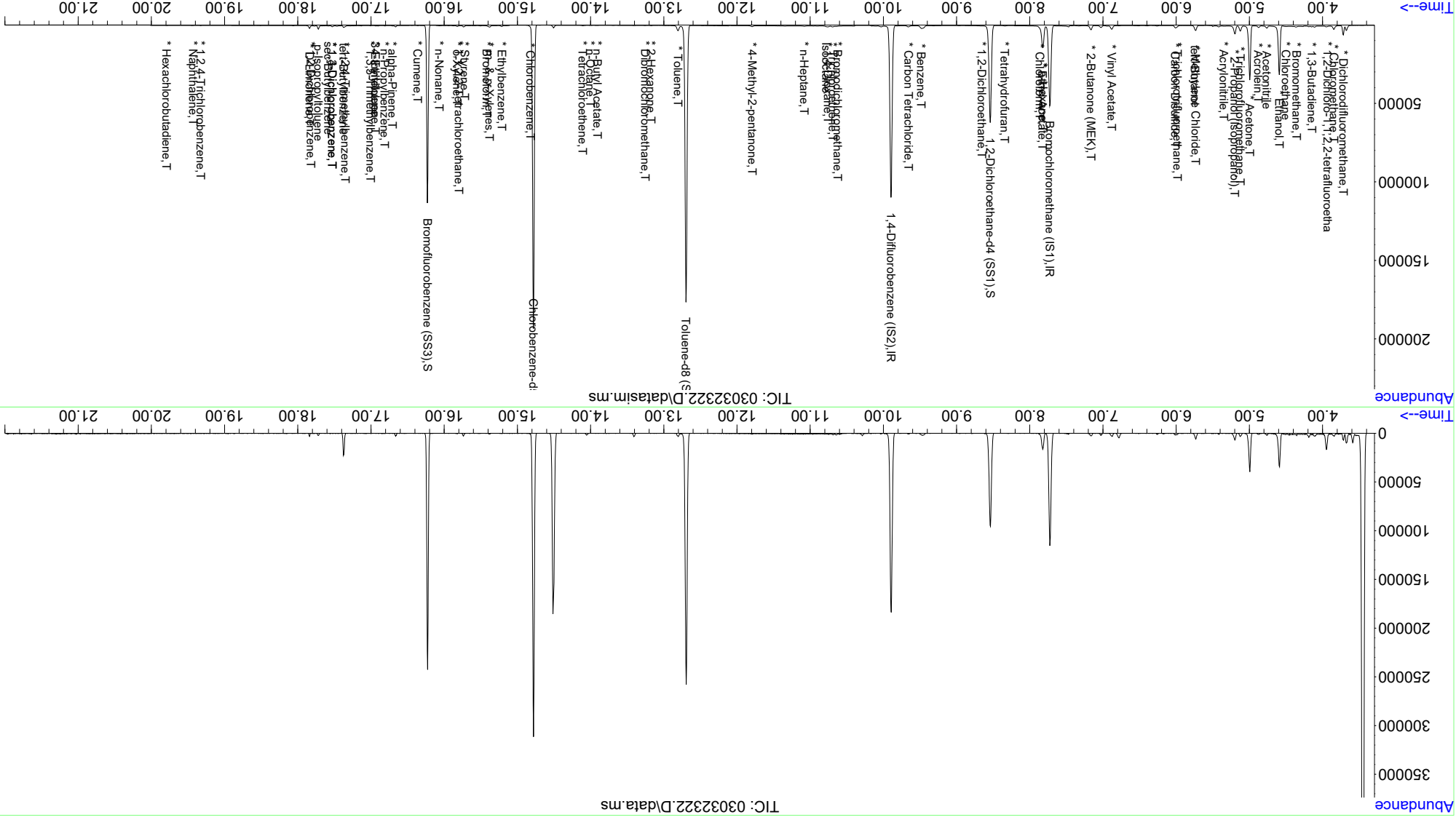
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72]	* n-Nonane	16.067	57	86	1.214	pg	# 28
73]	* 1,1,2,2-Tetrachloroe...	15.798	83	57	0.843	pg	# 18
75]	* Cumene	16.363	105	117	0.429	pg	# 48
76]	* alpha-Pinene	16.705	93	194	1.579	pg	# 83
77]	* n-Propylbenzene	16.812	91	221	0.728	pg	# 88
78]	3-Ethyltoluene	16.938	105	153	0.614	pg	94
79]	* 4-Ethyltoluene	16.938	105	151	0.624	pg	94
80]	* 1,3,5-Trimethylbenzene	17.006	105	133	0.617	pg	96
83]	tert-Butylbenzene	17.373	134	451	8.608	pg	# 1
84]	* 1,2,4-Trimethylbenzene	17.351	105	431	1.974	pg	91
86]	* 1,3-Dichlorobenzene	17.530	146	91	0.673	pg	96
87]	* 1,4-Dichlorobenzene	17.530	146	102	0.777	pg	96
89]	sec-Butylbenzene	17.583	105	93	0.302	pg	# 56
91]	p-Isopropyltoluene	17.718	119	1530	5.869	pg	100
92]	* 1,2-Dichlorobenzene	17.821	146	51	0.365	pg	# 55
93]	* D-Limonene	17.837	68	733	19.246	pg	94
97]	* 1,2,4-Trichlorobenzene	19.326	180	94	1.046	pg	98
98]	* Naphthalene	19.430	128	122	0.626	pg	# 68
100]	* Hexachlorobutadiene	19.792	225	131	1.570	pg	# 41

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

```

quant Time: Mar 06 08:22:23 2023
quant Method : I:\MS21\Methods\F21011723.M
quant Title : EPA 10-15
quant Update : Wed Jan 18 06:49:07 2023
Response via : Initial Calibration

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Data Path : I:\MS21\DATA\2023_03\10\
 Data File : 03102317.D
 Acq On : 11 Mar 2023 3:39
 Operator : KM
 Sample : AS01093
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 13 Sample Multiplier: 1

APL 3/13/23

Quant Time: Mar 13 07:37:38 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.728	130	52576	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.896	114	176044	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	28989	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.545	65	82421	1022.58	pg	0.00
Spiked Amount 1000.000			Recovery	=	102.26%	
57) Toluene-d8 (SS2)	12.697	98	168440	822.12	pg	0.00
Spiked Amount 1000.000			Recovery	=	82.21%	
74) Bromofluorobenzene (SS3)	16.228	174	70824	875.74	pg	0.00
Spiked Amount 1000.000			Recovery	=	87.57%	

Target Compounds						Qvalue
3] * Dichlorodifluoromethane	3.720	85	3016	33.795	pg	99
4] * Chloromethane	3.851	50	700	17.076	pg	95
5] * 1,2-Dichloro-1,1,2,2...	3.941	85	198	3.584	pg	93
6] * Vinyl Chloride	4.032	62	76	1.556	pg	# 42
7] * 1,3-Butadiene	4.152	54	92	2.811	pg	# 1
8] * Bromomethane	4.367	94	150	4.789	pg	# 48
9] * Chloroethane	4.508	64	76	2.670	pg	# 42
10] * Ethanol	4.596	45	6439	343.509	pg	98
11] * Acetonitrile	4.768	41	741	10.982	pg	95
12] * Acrolein	4.878	56	366	13.593	pg	100
13] * Acetone	5.002	58	8058	222.248	pg	88
14] * Trichlorofluoromethane	5.126	101	1915	16.812	pg	98
15] * 2-Propanol (Isopropa...	5.201	45	2646	81.955	pg	95
16] * Acrylonitrile	5.356	53	121	2.403	pg	94
17] * 1,1-Dichloroethene	5.652	96	66	1.219	pg	# 18
18] tert-Butanol	5.749	59	550	11.366	pg	# 18
19] * Methylene Chloride	5.735	84	8131	147.409	pg	100
21] * Trichlorotrifluoroet...	5.992	151	438	7.576	pg	99
22] * Carbon Disulfide	6.012	76	3265	17.470	pg	100
23] * trans-1,2-Dichloroet...	6.576	96	87	1.586	pg	# 18
24] * 1,1-Dichloroethane	6.762	63	131	1.625	pg	# 42
25] * Methyl tert-Butyl Ether	6.878	73	133	0.949	pg	# 18
26] * Vinyl Acetate	6.888	86	414	103.202	pg	# 1
27] * 2-Butanone (MEK)	7.169	72	627	18.717	pg	91
28] * cis-1,2-Dichloroethene	7.566	96	77	1.323	pg	100
30] * Ethyl Acetate	7.825	61	2849	283.827	pg	95
31] * n-Hexane	7.825	57	317	4.347	pg	# 83
32] * Chloroform	7.864	83	291	3.047	pg	98
35] ETBE	8.430	87	72	1.474	pg	88
36] * 1,2-Dichloroethane	8.671	62	177	2.504	pg	# 42
38] * 1,1,1-Trichloroethane	8.972	97	133	3.086	pg	# 18
39] * Benzene	9.484	78	2157	13.766	pg	99
42] * Carbon Tetrachloride	9.662	117	484	24.276	pg	99
43] * Cyclohexane	9.813	84	230	3.782	pg	93
44] TAME	10.237	87	68	2.663	pg	# 1
45] * 1,2-Dichloropropane	10.423	63	70	2.000	pg	# 65
46] * Bromodichloromethane	10.619	83	175	5.344	pg	94
47] * Trichloroethene	10.691	130	139	2.579	pg	92
48] * 1,4-Dioxane	10.749	88	295	7.049	pg	92
49] Isooctane	10.771	56	356	6.858	pg	# 68
50] * Methyl Methacrylate	10.953	69	165	7.849	pg	93
51] * n-Heptane	11.083	71	189	4.087	pg	98
52] * cis-1,3-Dichloropropene	11.675	75	56	1.863	pg	# 11
53] * 4-Methyl-2-pentanone	11.798	58	312	9.888	pg	95

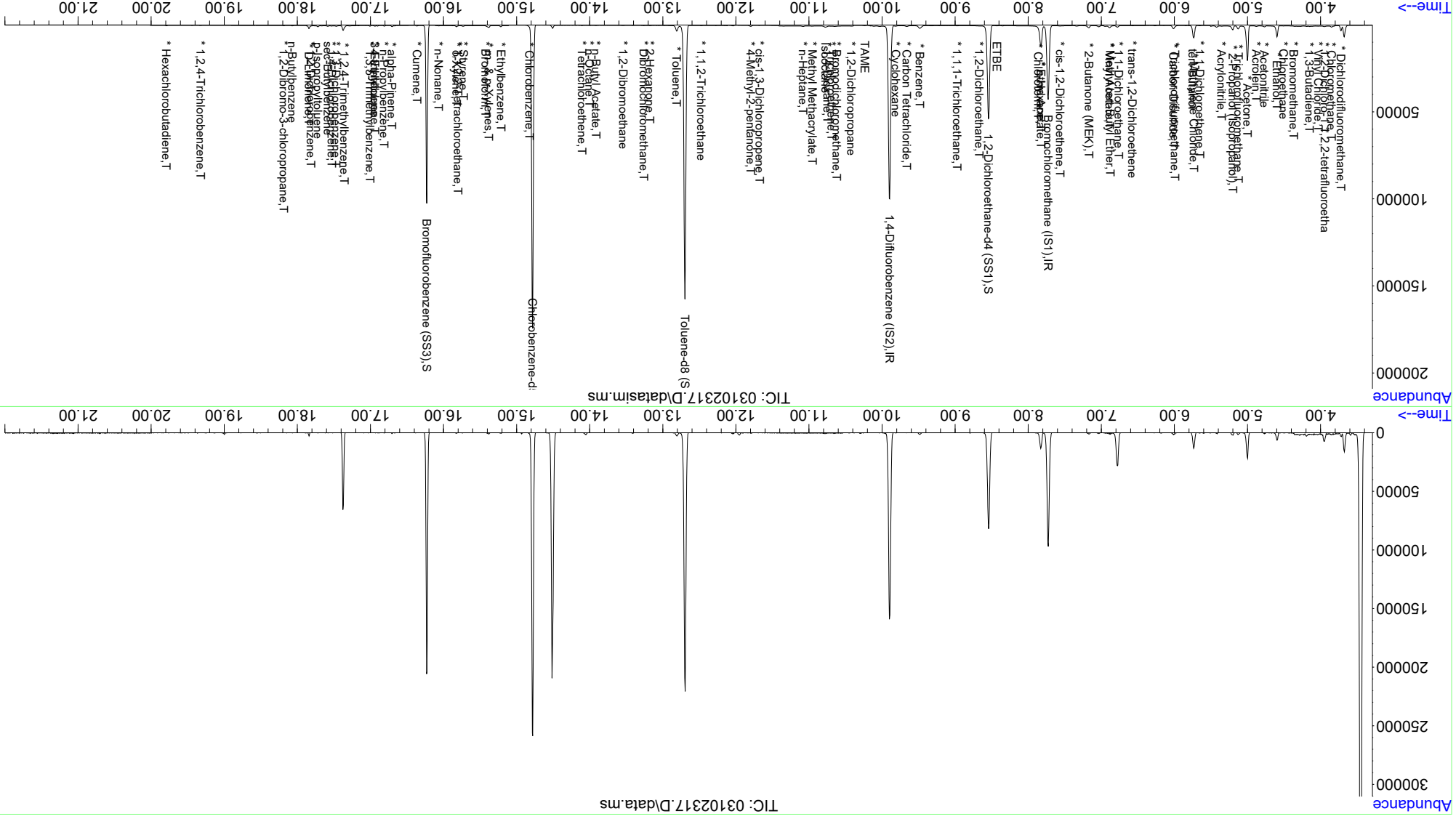
Data Path : I:\MS21\DATA\2023_03\10\
 Data File : 03102317.D
 Acq On : 11 Mar 2023 3:39
 Operator : KM
 Sample : AS01093
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 13 07:37:38 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
55]	* 1,1,2-Trichloroethane	12.475	97	69	1.831	pg	# 19
58]	* Toluene	12.810	91	3551	16.856	pg	98
59]	* 2-Hexanone	13.179	58	199	4.917	pg	# 87
60]	* Dibromochloromethane	13.260	129	120	6.231	pg	97
61]	* 1,2-Dibromoethane	13.542	107	53	1.976	pg	81
62]	* n-Butyl Acetate	13.912	56	152	10.743	pg	87
63]	* n-Octane	14.000	85	88	1.895	pg	# 16
64]	* Tetrachloroethene	14.104	166	154	2.457	pg	100
65]	* Chlorobenzene	14.826	112	205	1.424	pg	93
66]	* Ethylbenzene	15.214	91	721	3.164	pg	98
67]	* m- & p-Xylenes	15.381	91	1480	8.264	pg	97
68]	* Bromoform	15.423	173	114	8.332	pg	97
70]	* Styrene	15.727	104	268	2.200	pg	92
71]	* o-Xylene	15.822	91	575	3.098	pg	97
72]	* n-Nonane	16.067	57	101	1.554	pg	98
73]	* 1,1,2,2-Tetrachloroe...	15.804	83	126	2.031	pg	100
75]	* Cumene	16.363	105	314	1.256	pg	98
76]	* alpha-Pinene	16.705	93	462	4.099	pg	# 82
77]	* n-Propylbenzene	16.812	91	339	1.217	pg	95
78]	3-Ethyltoluene	16.938	105	270	1.182	pg	96
79]	* 4-Ethyltoluene	16.938	105	270	1.216	pg	96
80]	* 1,3,5-Trimethylbenzene	17.006	105	254	1.284	pg	100
84]	* 1,2,4-Trimethylbenzene	17.357	105	702	3.504	pg	92
86]	* 1,3-Dichlorobenzene	17.470	146	126	1.015	pg	100
87]	* 1,4-Dichlorobenzene	17.530	146	114	0.946	pg	93
89]	sec-Butylbenzene	17.584	105	272	0.963	pg	96
91]	p-Isopropyltoluene	17.719	119	377	1.576	pg	100
92]	* 1,2-Dichlorobenzene	17.816	146	119	0.929	pg	91
93]	* D-Limonene	17.843	68	663	18.973	pg	92
94]	n-Butylbenzene	18.070	134	64	1.120	pg	84
95]	* 1,2-Dibromo-3-chloro...	18.187	157	106	8.037	pg	97
97]	* 1,2,4-Trichlorobenzene	19.321	180	61	0.740	pg	97
100]	* Hexachlorobutadiene	19.792	225	196	2.560	pg	94

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

```
Quant Time: Mar 13 07:37:38 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA TO-15
Last Update : Wed Jan 18 06:49:07 2023
Response via : Initial Calibration
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Data File : I:\MS09\DATA\2023_03\10\03102322.D
 Acq On : 10 Mar 2023 22:47
 Sample : SC00533_30729
 Misc : S35-02212305

Vial: 13
 Operator: SC
 Inst : MS09

Quant Time: Mar 12 18:28:54 2023

Quant Method : I:\MS09\METHODS\R9022723.M

Pass LOW lwvwl, no TICS

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Tue Feb 28 08:30:18 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.20	130	175452	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	9.26	114	775126	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.80	54	177105	12.500	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.96	65	373183	12.564	ng	-0.04
Spiked Amount	12.500	Range 70 - 130	Recovery	=	100.48%	
57) Toluene-d8 (SS2)	12.39	98	913715	13.578	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	108.64%	
73) Bromofluorobenzene (SS3)	16.79	174	283813	10.343	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	82.72%	

Target Compounds

						Qvalue
2) Propene	3.30	42	3148	0.135	ng	99
10) Ethanol	4.27	45	9547	0.573	ng	93
11) Acetonitrile	4.45	41	2437	0.058	ng	# 31
12) Acrolein	4.52	56	1188	0.107	ng	85
13) Acetone	4.62	58	20692	1.640	ng	# 77
15) 2-Propanol (Isopropanol)	4.83	45	6342	0.129	ng	# 54
27) 2-Butanone (MEK)	6.66	72	2663	0.265	ng	# 26
30) Ethyl Acetate	7.28	61	819	0.106	ng	87
34) Tetrahydrofuran (THF)	7.76	72	504	0.050	ng	# 84
59) 2-Hexanone	12.92	43	3396	0.075	ng	92
92) 1,2-Dibromo-3-Chloropr...	19.49	157	898	0.058	ng	# 67
94) 1,2,4-Trichlorobenzene	20.82	180	2531	0.081	ng	98
95) Naphthalene	20.93	128	5509	0.088	ng	88

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

Data File : I:\MS09\DATA\2023_03\10\03102322.D
Acq On : 10 Mar 2023 22:47
Sample : SC00533_30729
Misc : S35-02212305

Vial: 13
Operator: SC
Inst : MS09

Quant Time: Mar 12 18:28:54 2023

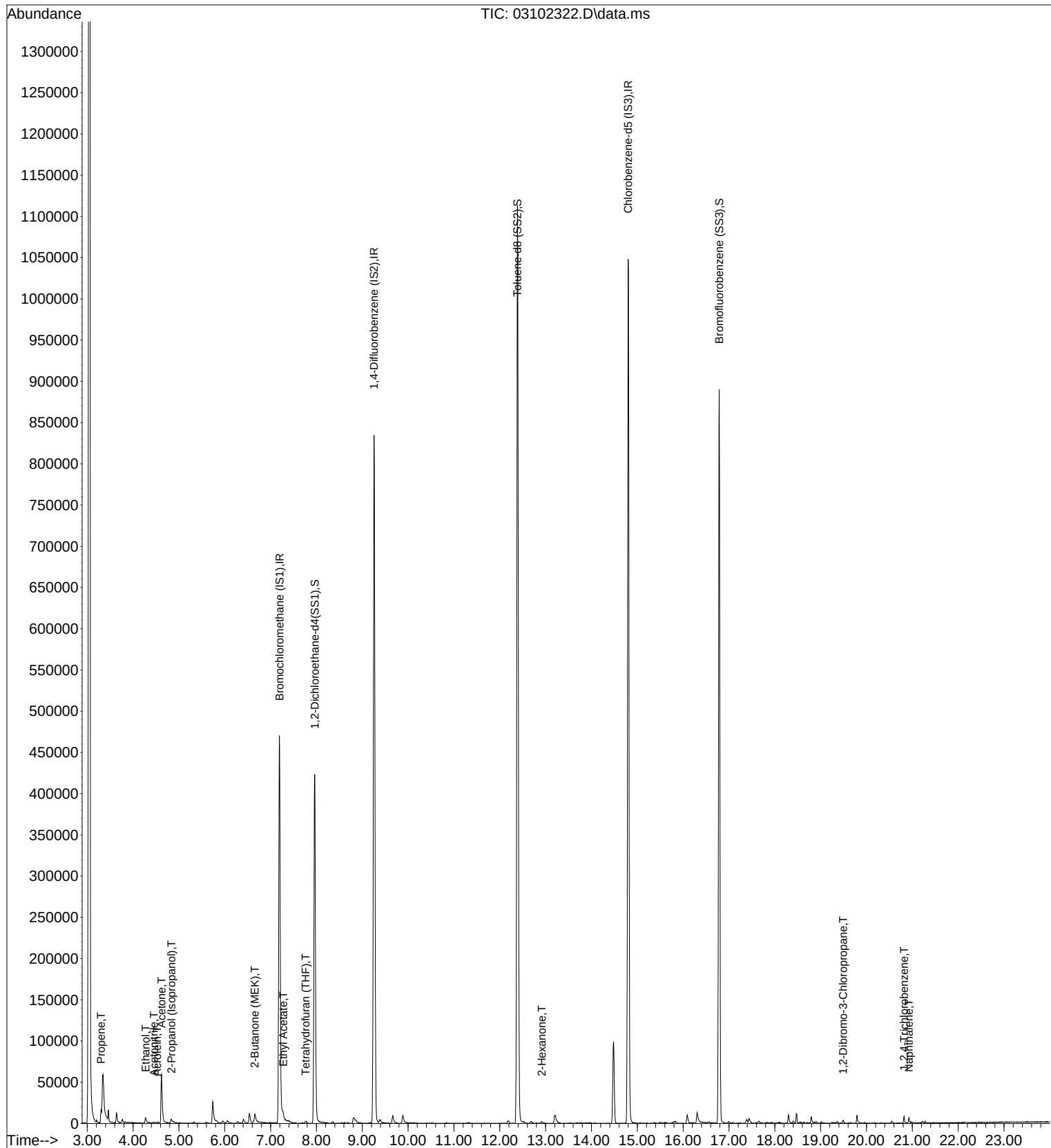
Quant Method : I:\MS09\METHODS\R9022723.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Tue Feb 28 08:30:18 2023

Response via : Initial Calibration

DataAcq Meth:T015.M



Data Path : I:\MS21\DATA\2023_03\08\
 Data File : 03082311.D
 Acq On : 8 Mar 2023 21:25
 Operator : KM
 Sample : AC02204
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 7 Sample Multiplier: 1

APL 3/9/23

Quant Time: Mar 09 05:17:59 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.734	130	54046	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.901	114	174534	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	27898	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.550	65	85583	1032.93	pg	0.00
Spiked Amount 1000.000			Recovery	=	103.29%	
57) Toluene-d8 (SS2)	12.697	98	168123	852.67	pg	0.00
Spiked Amount 1000.000			Recovery	=	85.27%	
74) Bromofluorobenzene (SS3)	16.228	174	71979	924.82	pg	0.00
Spiked Amount 1000.000			Recovery	=	92.48%	
Target Compounds						Qvalue
2] * Propene	3.682	42	321	9.173	pg	# 1
3] * Dichlorodifluoromethane	3.729	85	1402	15.283	pg	98
4] * Chloromethane	3.856	50	407	9.659	pg	97
5] * 1,2-Dichloro-1,1,2,2...	3.951	85	232	4.086	pg	92
6] * Vinyl Chloride	4.042	62	139	2.768	pg	# 42
7] * 1,3-Butadiene	4.157	54	110	3.270	pg	# 34
8] * Bromomethane	4.372	94	154	4.783	pg	# 72
9] * Chloroethane	4.513	64	159	5.434	pg	# 85
10] * Ethanol	4.606	45	3642	189.009	pg	99
11] * Acetonitrile	4.778	41	737	10.626	pg	98
12] * Acrolein	4.884	56	458	16.547	pg	98
13] * Acetone	5.014	58	3751	100.643	pg	93
14] * Trichlorofluoromethane	5.132	101	1043	8.907	pg	99
15] * 2-Propanol (Isopropa...	5.213	45	1764	53.151	pg	96
16] * Acrylonitrile	5.362	53	216	4.174	pg	99
17] * 1,1-Dichloroethene	5.652	96	123	2.211	pg	99
18] tert-Butanol	5.764	59	1012	20.344	pg	# 75
19] * Methylene Chloride	5.744	84	538	9.488	pg	99
20] * 3-Chloro-1-propene (...)	5.851	41	86	2.408	pg	# 77
21] * Trichlorotrifluoroet...	5.992	151	316	5.317	pg	100
22] * Carbon Disulfide	6.021	76	3343	17.401	pg	99
23] * trans-1,2-Dichloroet...	6.581	96	117	2.075	pg	92
24] * 1,1-Dichloroethane	6.772	63	201	2.426	pg	96
25] * Methyl tert-Butyl Ether	6.893	73	269	1.868	pg	# 59
26] * Vinyl Acetate	6.898	86	170	41.225	pg	# 14
27] * 2-Butanone (MEK)	7.184	72	431	12.516	pg	88
28] * cis-1,2-Dichloroethene	7.572	96	133	2.222	pg	98
29] DIPE	7.844	45	617	4.825	pg	# 84
30] * Ethyl Acetate	7.838	61	326	31.594	pg	96
31] * n-Hexane	7.825	57	163	2.175	pg	# 53
32] * Chloroform	7.870	83	322	3.280	pg	91
34] * Tetrahydrofuran	8.349	71	161	5.440	pg	94
35] ETBE	8.435	87	200	3.984	pg	96
36] * 1,2-Dichloroethane	8.671	62	217	2.986	pg	90
38] * 1,1,1-Trichloroethane	8.977	97	261	6.108	pg	96
39] * Benzene	9.490	78	1024	6.592	pg	100
42] * Carbon Tetrachloride	9.667	117	357	18.061	pg	99
43] * Cyclohexane	9.823	84	216	3.583	pg	92
44] TAME	10.243	87	140	5.530	pg	# 18
45] * 1,2-Dichloropropane	10.423	63	134	3.863	pg	97
46] * Bromodichloromethane	10.626	83	266	8.193	pg	98
47] * Trichloroethene	10.691	130	178	3.331	pg	# 80
48] * 1,4-Dioxane	10.764	88	221	5.326	pg	91
49] Isooctane	10.786	56	151	2.934	pg	89

Data Path : I:\MS21\DATA\2023_03\08\
 Data File : 03082311.D
 Acq On : 8 Mar 2023 21:25
 Operator : KM
 Sample : AC02204
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 09 05:17:59 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA TO-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50]	* Methyl Methacrylate	10.960	69	227	10.891	pg	97
51]	* n-Heptane	11.083	71	117	2.552	pg	# 39
52]	* cis-1,3-Dichloropropene	11.680	75	98	3.289	pg	# 1
53]	* 4-Methyl-2-pentanone	11.798	58	475	15.185	pg	95
54]	* trans-1,3-Dichloropr...	12.280	75	74	3.347	pg	# 6
55]	* 1,1,2-Trichloroethane	12.469	97	128	3.427	pg	100
58]	* Toluene	12.810	91	1131	5.579	pg	100
59]	* 2-Hexanone	13.179	58	315	8.088	pg	98
60]	* Dibromochloromethane	13.260	129	196	10.576	pg	97
61]	* 1,2-Dibromoethane	13.542	107	99	3.835	pg	90
62]	* n-Butyl Acetate	13.912	56	244	17.919	pg	97
63]	* n-Octane	14.000	85	80	1.791	pg	98
64]	* Tetrachloroethene	14.109	166	200	3.315	pg	99
65]	* Chlorobenzene	14.826	112	309	2.231	pg	98
66]	* Ethylbenzene	15.220	91	464	2.116	pg	100
67]	* m- & p-Xylenes	15.381	91	787	4.566	pg	95
68]	* Bromoform	15.423	173	157	11.923	pg	95
70]	* Styrene	15.727	104	220	1.877	pg	99
71]	* o-Xylene	15.822	91	366	2.049	pg	98
72]	* n-Nonane	16.067	57	104	1.663	pg	91
73]	* 1,1,2,2-Tetrachloroe...	15.804	83	226	3.786	pg	94
75]	* Cumene	16.363	105	480	1.995	pg	99
76]	* alpha-Pinene	16.705	93	214	1.973	pg	# 71
77]	* n-Propylbenzene	16.807	91	446	1.664	pg	98
78]	3-Ethyltoluene	16.938	105	325	1.478	pg	96
79]	* 4-Ethyltoluene	16.938	105	326	1.525	pg	96
80]	* 1,3,5-Trimethylbenzene	17.006	105	334	1.754	pg	95
83]	tert-Butylbenzene	17.373	134	213	4.604	pg	# 12
84]	* 1,2,4-Trimethylbenzene	17.351	105	385	1.997	pg	98
86]	* 1,3-Dichlorobenzene	17.470	146	164	1.373	pg	98
87]	* 1,4-Dichlorobenzene	17.530	146	132	1.139	pg	98
89]	sec-Butylbenzene	17.584	105	409	1.504	pg	97
91]	p-Isopropyltoluene	17.718	119	438	1.903	pg	98
92]	* 1,2-Dichlorobenzene	17.816	146	156	1.265	pg	98
93]	* D-Limonene	17.843	68	148	4.401	pg	94
94]	n-Butylbenzene	18.070	134	89	1.618	pg	85
95]	* 1,2-Dibromo-3-chloro...	18.187	157	205	16.150	pg	88
97]	* 1,2,4-Trichlorobenzene	19.326	180	137	1.726	pg	93
98]	* Naphthalene	19.434	128	178	1.034	pg	# 68
100]	* Hexachlorobutadiene	19.792	225	303	4.112	pg	99

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

Data Path : I:\MS21\DATA\2023_03\01\
 Data File : 03012327.D
 Acq On : 2 Mar 2023 11:26
 Operator : KM
 Sample : AS01712
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 209 Sample Multiplier: 1

APL 3/2/23

Quant Time: Mar 02 12:01:44 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA TO-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.728	130	66329	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.896	114	198992	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	31351	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.540	65	96942	953.35	pg	0.00
Spiked Amount 1000.000			Recovery	=	95.34%	
57) Toluene-d8 (SS2)	12.697	98	199995	902.60	pg	0.00
Spiked Amount 1000.000			Recovery	=	90.26%	
74) Bromofluorobenzene (SS3)	16.228	174	79008	903.33	pg	0.00
Spiked Amount 1000.000			Recovery	=	90.33%	

Target	Compounds					Qvalue
3]	* Dichlorodifluoromethane	3.720	85	5236	46.506 pg	100
4]	* Chloromethane	3.851	50	1134	21.928 pg	99
5]	* 1,2-Dichloro-1,1,2,2...	3.936	85	191	2.741 pg	98
7]	* 1,3-Butadiene	4.132	54	50	1.211 pg	# 5
8]	* Bromomethane	4.362	94	77	1.949 pg	# 1
10]	* Ethanol	4.596	45	3513	148.553 pg	97
11]	* Acetonitrile	4.768	41	879	10.326 pg	92
12]	* Acrolein	4.878	56	196	5.770 pg	88
13]	* Acetone	5.002	58	4396	96.107 pg	96
14]	* Trichlorofluoromethane	5.126	101	3088	21.489 pg	99
15]	* 2-Propanol (Isopropa...	5.201	45	2551	62.630 pg	90
16]	* Acrylonitrile	5.350	53	64	1.008 pg	# 8
18]	tert-Butanol	5.744	59	245	4.013 pg	# 60
19]	* Methylene Chloride	5.735	84	1959	28.151 pg	99
21]	* Trichlorotrifluoroet...	5.987	151	663	9.090 pg	99
22]	* Carbon Disulfide	6.012	76	3169	13.441 pg	100
26]	* Vinyl Acetate	6.893	86	76	15.017 pg	# 1
27]	* 2-Butanone (MEK)	7.174	72	562	13.298 pg	91
29]	DIPE	7.831	45	304	1.937 pg	# 36
30]	* Ethyl Acetate	7.831	61	387	30.560 pg	91
31]	* n-Hexane	7.818	57	135	1.467 pg	# 53
32]	* Chloroform	7.864	83	201	1.668 pg	98
34]	* Tetrahydrofuran	8.349	71	52	1.432 pg	# 71
36]	* 1,2-Dichloroethane	8.656	62	119	1.334 pg	# 1
39]	* Benzene	9.490	78	1142	6.448 pg	99
42]	* Carbon Tetrachloride	9.662	117	652	28.931 pg	98
46]	* Bromodichloromethane	10.612	83	102	2.755 pg	96
50]	* Methyl Methacrylate	10.953	69	172	7.238 pg	100
53]	* 4-Methyl-2-pentanone	11.798	58	376	10.543 pg	98
58]	* Toluene	12.805	91	923	4.051 pg	99
59]	* 2-Hexanone	13.179	58	60	1.371 pg	# 48
60]	* Dibromochloromethane	13.255	129	120	5.762 pg	97
64]	* Tetrachloroethene	14.109	166	68	1.003 pg	# 11
65]	* Chlorobenzene	14.826	112	116	0.745 pg	# 42
66]	* Ethylbenzene	15.214	91	315	1.278 pg	99
67]	* m- & p-Xylenes	15.381	91	649	3.351 pg	97
68]	* Bromoform	15.423	173	87	5.879 pg	# 26
70]	* Styrene	15.721	104	217	1.647 pg	93
71]	* o-Xylene	15.822	91	274	1.365 pg	97
75]	* Cumene	16.363	105	87	0.322 pg	# 48
76]	* alpha-Pinene	16.700	93	148	1.214 pg	# 74
77]	* n-Propylbenzene	16.812	91	107	0.355 pg	# 51
78]	3-Ethyltoluene	16.938	105	86	0.348 pg	# 44
79]	* 4-Ethyltoluene	16.938	105	81	0.337 pg	# 44

Data Path : I:\MS21\DATA\2023_03\01\
 Data File : 03012327.D
 Acq On : 2 Mar 2023 11:26
 Operator : KM
 Sample : AS01712
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 209 Sample Multiplier: 1

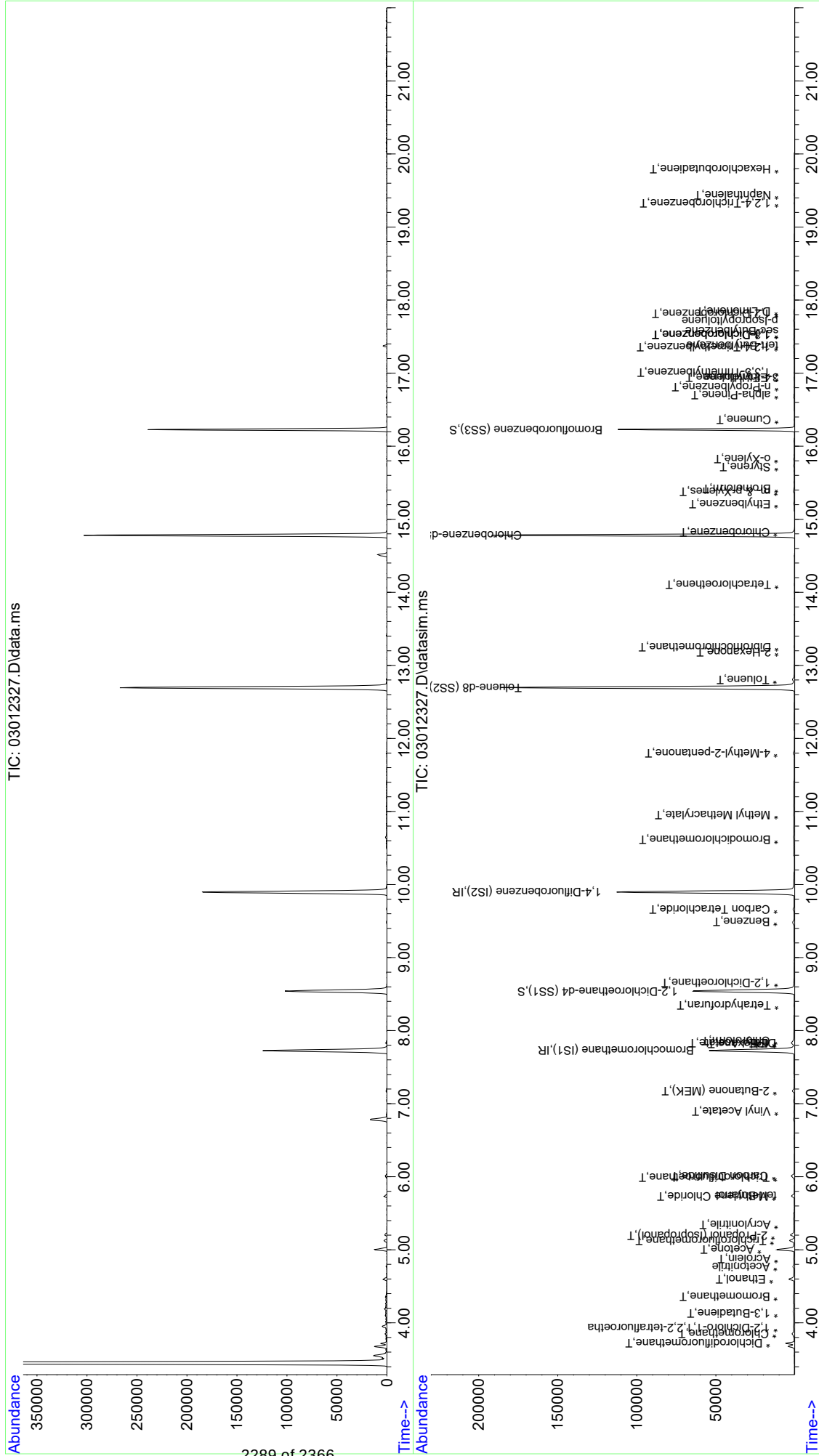
Quant Time: Mar 02 12:01:44 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80]	* 1,3,5-Trimethylbenzene	17.006	105	77	0.360	pg	# 28
83]	tert-Butylbenzene	17.379	134	119	2.289	pg	# 1
84]	* 1,2,4-Trimethylbenzene	17.357	105	173	0.798	pg	# 82
86]	* 1,3-Dichlorobenzene	17.530	146	81	0.603	pg	95
87]	* 1,4-Dichlorobenzene	17.530	146	81	0.622	pg	95
89]	sec-Butylbenzene	17.578	105	74	0.242	pg	# 56
91]	p-Isopropyltoluene	17.719	119	226	0.874	pg	97
92]	* 1,2-Dichlorobenzene	17.816	146	65	0.469	pg	# 18
93]	* D-Limonene	17.843	68	74	1.958	pg	# 73
97]	* 1,2,4-Trichlorobenzene	19.323	180	102	1.144	pg	96
98]	* Naphthalene	19.436	128	125	0.646	pg	# 68
100]	* Hexachlorobutadiene	19.794	225	134	1.618	pg	# 41

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

Data Path : I:\MS21\DATA\2023_03\01\
Data File : 03012327.D
Acq On : 2 Mar 2023 11:26
Operator : KM
Sample : AS01712
Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial : 209 Sample Multiplier: 1

Quant Time: Mar 02 12:01:44 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA T0-15
QLast Update : Wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data Path : I:\MS21\DATA\2023_03\09\
 Data File : 03092306.D
 Acq On : 9 Mar 2023 19:55
 Operator : KM
 Sample : 030923_SC00151_30730
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

APL 3/10/23

Quant Time: Mar 10 06:42:20 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.734	130	56553	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.901	114	200559	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	32605	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.545	65	87604	1010.45	pg	0.00
Spiked Amount 1000.000			Recovery =	101.05%		
57) Toluene-d8 (SS2)	12.697	98	198898	863.12	pg	0.00
Spiked Amount 1000.000			Recovery =	86.31%		
74) Bromofluorobenzene (SS3)	16.228	174	92712	1019.24	pg	0.00
Spiked Amount 1000.000			Recovery =	101.92%		

Target	Compounds					Qvalue
3]	* Dichlorodifluoromethane	3.725	85	415	4.323 pg	95
4]	* Chloromethane	3.856	50	895	20.298 pg	98
5]	* 1,2-Dichloro-1,1,2,2...	3.946	85	63	1.060 pg	# 42
6]	* Vinyl Chloride	4.032	62	50	0.952 pg	# 42
7]	* 1,3-Butadiene	4.122	54	68	1.932 pg	# 1
8]	* Bromomethane	4.367	94	84	2.493 pg	# 3
9]	* Chloroethane	4.507	64	800	26.128 pg	94
10]	* Ethanol	4.601	45	6626	328.627 pg	99
11]	* Acetonitrile	4.773	41	1151	15.859 pg	98
12]	* Acrolein	4.878	56	1809	62.459 pg	97
13]	* Acetone	5.008	58	62548	1603.823 pg	# 65
14]	* Trichlorofluoromethane	5.132	101	288	2.351 pg	95
15]	* 2-Propanol (Isopropa...	5.207	45	7856	226.213 pg	99
16]	* Acrylonitrile	5.356	53	176	3.250 pg	90
18]	tert-Butanol	5.754	59	1133	21.767 pg	# 80
19]	* Methylene Chloride	5.744	84	430	7.247 pg	95
21]	* Trichlorotrifluoroet...	5.997	151	90	1.447 pg	87
22]	* Carbon Disulfide	6.016	76	10686	53.158 pg	99
23]	* trans-1,2-Dichloroet...	6.571	96	55	0.932 pg	# 18
24]	* 1,1-Dichloroethane	6.767	63	50	0.577 pg	# 42
25]	* Methyl tert-Butyl Ether	6.893	73	65	0.431 pg	# 1
26]	* Vinyl Acetate	6.943	86	120	27.810 pg	64
27]	* 2-Butanone (MEK)	7.164	72	13147	364.863 pg	90
29]	DIPE	7.831	45	449	3.356 pg	# 70
30]	* Ethyl Acetate	7.838	61	379	35.102 pg	100
31]	* n-Hexane	7.825	57	2477	31.580 pg	95
32]	* Chloroform	7.864	83	127	1.236 pg	88
34]	* Tetrahydrofuran	8.349	71	548	17.697 pg	99
36]	* 1,2-Dichloroethane	8.666	62	98	1.289 pg	# 42
38]	* 1,1,1-Trichloroethane	8.972	97	68	1.385 pg	# 18
39]	* Benzene	9.490	78	1562	8.750 pg	96
42]	* Carbon Tetrachloride	9.667	117	110	4.843 pg	91
43]	* Cyclohexane	9.818	84	178	2.569 pg	# 75
45]	* 1,2-Dichloropropane	10.416	63	52	1.304 pg	# 23
46]	* Bromodichloromethane	10.626	83	103	2.761 pg	# 82
47]	* Trichloroethene	10.699	130	200	3.257 pg	93
48]	* 1,4-Dioxane	10.749	88	2001	41.967 pg	# 81
49]	Isooctane	10.778	56	130	2.198 pg	# 52
50]	* Methyl Methacrylate	10.952	69	125	5.219 pg	96
51]	* n-Heptane	11.083	71	1616	30.675 pg	97
53]	* 4-Methyl-2-pentanone	11.793	58	723	20.114 pg	98
55]	* 1,1,2-Trichloroethane	12.469	97	53	1.235 pg	# 19
58]	* Toluene	12.810	91	3528	14.890 pg	99
59]	* 2-Hexanone	13.168	58	2202	48.377 pg	98

Data Path : I:\MS21\DATA\2023_03\09\
 Data File : 03092306.D
 Acq On : 9 Mar 2023 19:55
 Operator : KM
 Sample : 030923_SC00151_30730
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

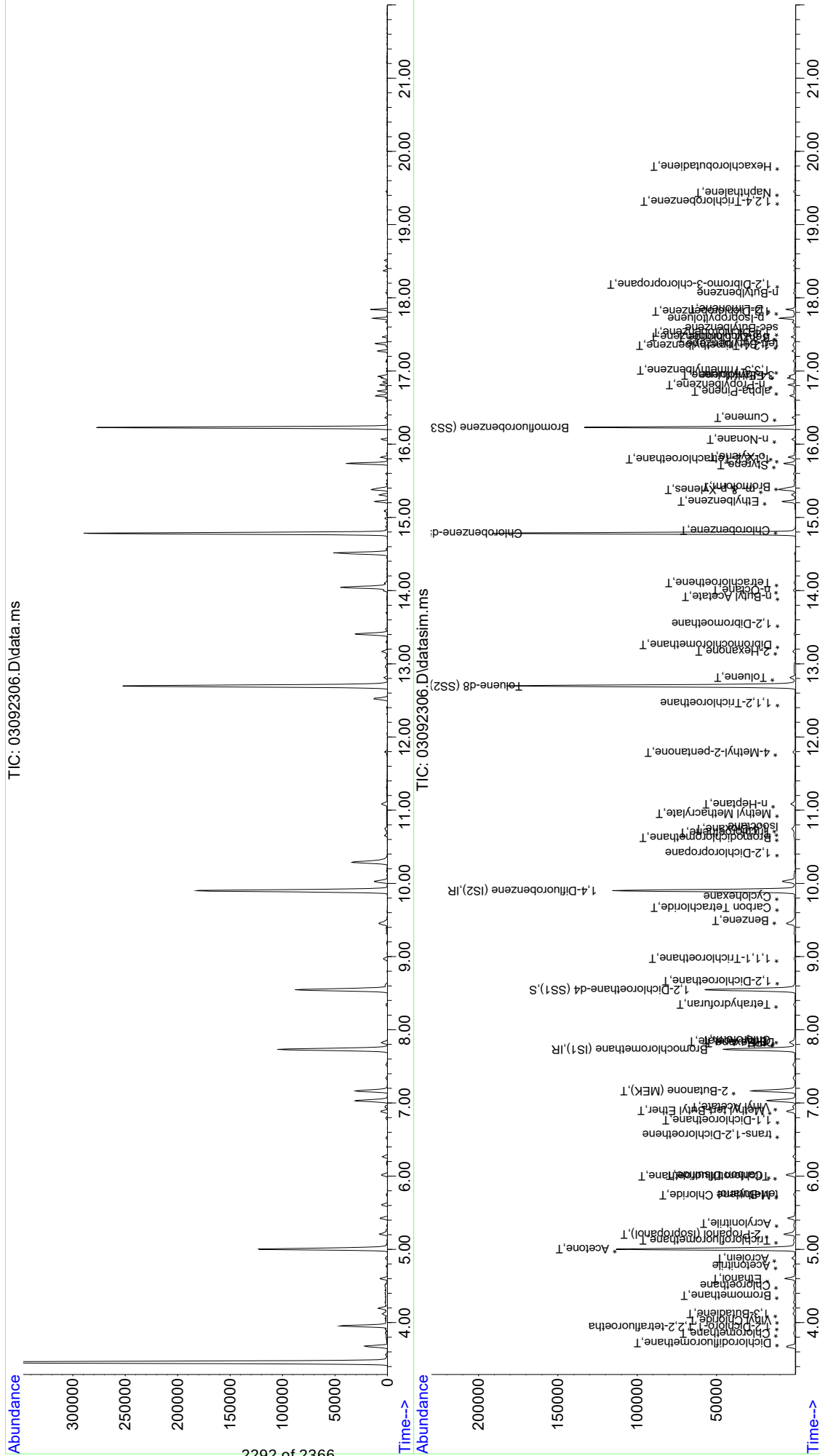
Quant Time: Mar 10 06:42:20 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
60]	* Dibromochloromethane	13.260	129	107	4.940	pg	96
61]	* 1,2-Dibromoethane	13.547	107	52	1.724	pg	# 2
62]	* n-Butyl Acetate	13.912	56	236	14.829	pg	# 83
63]	* n-Octane	14.005	85	910	17.427	pg	97
64]	* Tetrachloroethene	14.109	166	712	10.099	pg	99
65]	* Chlorobenzene	14.826	112	605	3.738	pg	98
66]	* Ethylbenzene	15.220	91	8974	35.009	pg	100
67]	* m- & p-Xylenes	15.381	91	13570	67.367	pg	98
68]	* Bromoform	15.423	173	94	6.108	pg	98
70]	* Styrene	15.721	104	580	4.234	pg	97
71]	* o-Xylene	15.822	91	4095	19.615	pg	98
72]	* n-Nonane	16.067	57	1283	17.551	pg	97
73]	* 1,1,2,2-Tetrachloroe...	15.792	83	172	2.466	pg	# 71
75]	* Cumene	16.363	105	1876	6.670	pg	100
76]	* alpha-Pinene	16.724	93	158	1.246	pg	# 1
77]	* n-Propylbenzene	16.812	91	3710	11.841	pg	95
78]	3-Ethyltoluene	16.938	105	1704	6.631	pg	100
79]	* 4-Ethyltoluene	16.938	105	1708	6.838	pg	100
80]	* 1,3,5-Trimethylbenzene	17.006	105	316	1.420	pg	93
83]	tert-Butylbenzene	17.373	134	297	5.493	pg	# 1
84]	* 1,2,4-Trimethylbenzene	17.351	105	527	2.338	pg	93
85]	* Benzyl Chloride	17.454	126	55	6.946	pg	84
86]	* 1,3-Dichlorobenzene	17.470	146	155	1.110	pg	95
87]	* 1,4-Dichlorobenzene	17.530	146	172	1.270	pg	97
89]	sec-Butylbenzene	17.584	105	594	1.869	pg	96
91]	p-Isopropyltoluene	17.718	119	7197	26.752	pg	99
92]	* 1,2-Dichlorobenzene	17.816	146	138	0.957	pg	98
93]	* D-Limonene	17.843	68	2254	57.350	pg	92
94]	n-Butylbenzene	18.070	134	79	1.229	pg	# 1
95]	* 1,2-Dibromo-3-chloro...	18.187	157	103	6.943	pg	94
97]	* 1,2,4-Trichlorobenzene	19.321	180	198	2.135	pg	94
98]	* Naphthalene	19.434	128	394	1.958	pg	# 82
100]	* Hexachlorobutadiene	19.792	225	166	1.928	pg	96

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

Data Path : I:\MS21\DATA\2023_03\09\
Data File : 03092306.D
Acq On : 9 Mar 2023 19:55
Operator : KM
Sample : 030923_SC00151_30730
Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 10 06:42:20 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA T0-15
QLast Update : Wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data Path : I:\MS21\DATA\2023_03\03\
 Data File : 03032325.D
 Acq On : 4 Mar 2023 9:50
 Operator : KM
 Sample : AC02002
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 206 Sample Multiplier: 1

3/6/23

Quant Time: Mar 06 08:38:26 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA TO-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.728	130	64121	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.896	114	194914	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.782	54	29414	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.540	65	92130	937.23	pg	0.00
Spiked Amount 1000.000			Recovery	=	93.72%	
57) Toluene-d8 (SS2)	12.697	98	187491	901.89	pg	0.00
Spiked Amount 1000.000			Recovery	=	90.19%	
74) Bromofluorobenzene (SS3)	16.228	174	78231	953.35	pg	0.00
Spiked Amount 1000.000			Recovery	=	95.34%	

Target	Compounds					Qvalue
2]	* Propene	3.669	42	627	15.102 pg	# 1
3]	* Dichlorodifluoromethane	3.716	85	2431	22.336 pg	# 99
4]	* Chloromethane	3.851	50	936	18.722 pg	# 94
5]	* 1,2-Dichloro-1,1,2,2...	3.936	85	110	1.633 pg	# 42
7]	* 1,3-Butadiene	4.147	54	58	1.453 pg	# 5
8]	* Bromomethane	4.362	94	103	2.696 pg	# 53
9]	* Chloroethane	4.497	64	118	3.399 pg	# 42
10]	* Ethanol	4.596	45	12167	532.219 pg	# 98
11]	* Acetonitrile	4.762	41	1252	15.214 pg	# 99
12]	* Acrolein	4.878	56	897	27.315 pg	# 96
13]	* Acetone	5.002	58	17673	399.677 pg	# 67
14]	* Trichlorofluoromethane	5.126	101	1812	13.043 pg	# 99
15]	* 2-Propanol (Isopropa...	5.200	45	7317	185.825 pg	# 90
16]	* Acrylonitrile	5.343	53	89	1.449 pg	# 8
18]	tert-Butanol	5.749	59	1147	19.435 pg	# 81
19]	* Methylene Chloride	5.734	84	1602	23.814 pg	# 98
21]	* Trichlorotrifluoroet...	5.982	151	693	9.828 pg	# 99
22]	* Carbon Disulfide	6.012	76	18363	80.565 pg	# 99
26]	* Vinyl Acetate	6.882	86	387	79.102 pg	# 1
27]	* 2-Butanone (MEK)	7.164	72	2050	50.178 pg	# 92
28]	* cis-1,2-Dichloroethene	7.566	96	68	0.958 pg	# 18
29]	DIPE	7.825	45	2459	16.209 pg	# 45
30]	* Ethyl Acetate	7.825	61	3168	258.782 pg	# 92
31]	* n-Hexane	7.818	57	437	4.914 pg	# 82
32]	* Chloroform	7.857	83	347	2.979 pg	# 96
34]	* Tetrahydrofuran	8.339	71	160	4.557 pg	# 94
36]	* 1,2-Dichloroethane	8.666	62	81	0.939 pg	# 22
39]	* Benzene	9.485	78	1822	10.502 pg	# 100
42]	* Carbon Tetrachloride	9.656	117	442	20.023 pg	# 99
43]	* Cyclohexane	9.808	84	111	1.649 pg	# 91
47]	* Trichloroethene	10.691	130	151	2.530 pg	# 99
48]	* 1,4-Dioxane	10.749	88	238	5.136 pg	# 92
49]	Isooctane	10.779	56	270	4.698 pg	# 56
51]	* n-Heptane	11.076	71	101	1.973 pg	# 39
53]	* 4-Methyl-2-pentanone	11.798	58	255	7.300 pg	# 95
58]	* Toluene	12.805	91	526	2.461 pg	# 100
60]	* Dibromochloromethane	13.260	129	50	2.559 pg	# 11
64]	* Tetrachloroethene	14.104	166	73	1.148 pg	# 88
65]	* Chlorobenzene	14.821	112	62	0.425 pg	# 42
66]	* Ethylbenzene	15.214	91	64	0.277 pg	# 42
67]	* m- & p-Xylenes	15.381	91	109	0.600 pg	# 99
68]	* Bromoform	15.417	173	62	4.466 pg	# 26
70]	* Styrene	15.721	104	64	0.518 pg	# 29
75]	* Cumene	16.358	105	68	0.268 pg	# 48

Data Path : I:\MS21\DATA\2023_03\03\
 Data File : 03032325.D
 Acq On : 4 Mar 2023 9:50
 Operator : KM
 Sample : AC02002
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 206 Sample Multiplier: 1

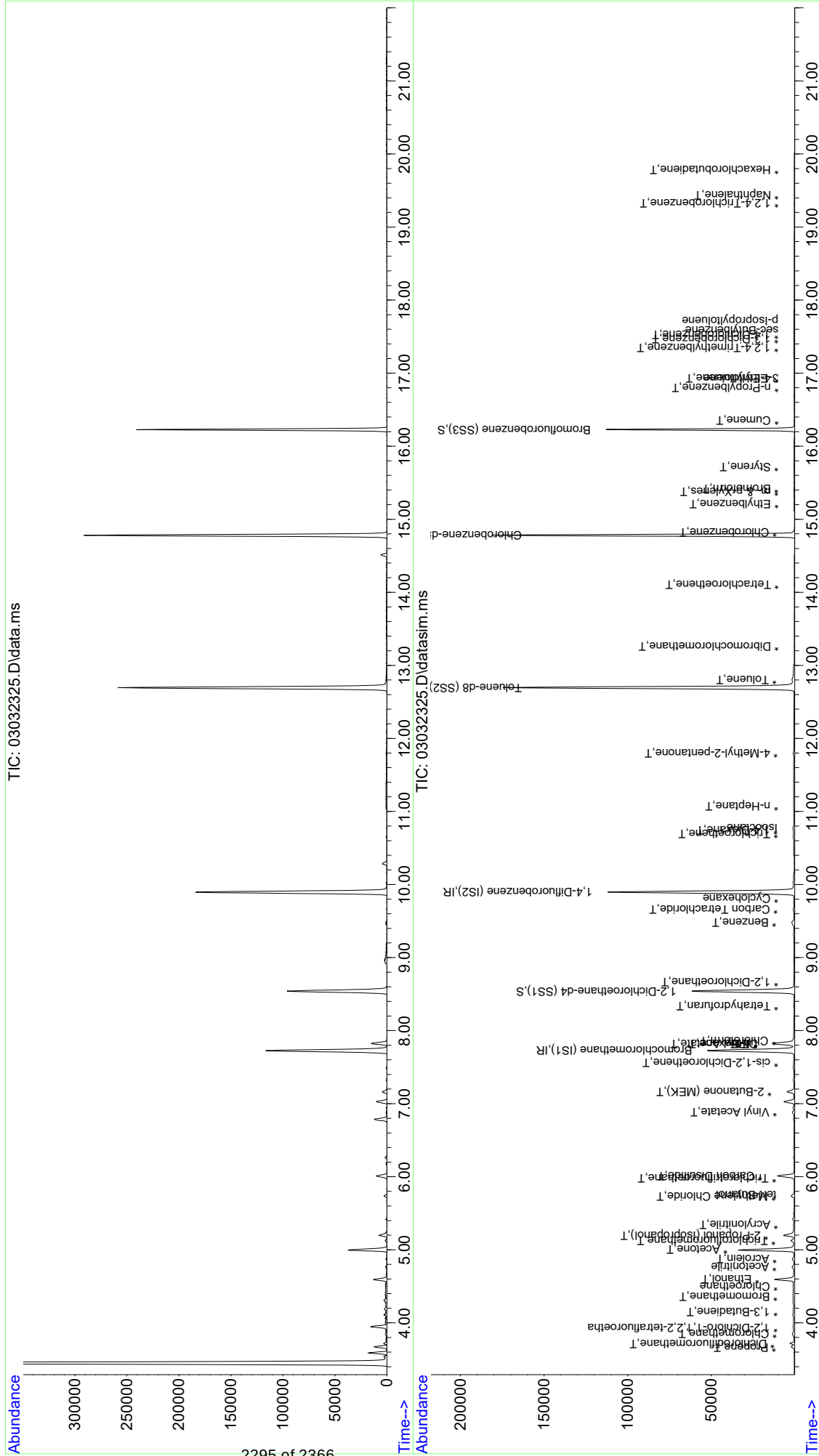
Quant Time: Mar 06 08:38:26 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77]	* n-Propylbenzene	16.807	91	67	0.237	pg	# 51
78]	3-Ethyltoluene	16.933	105	54	0.233	pg	# 44
79]	* 4-Ethyltoluene	16.933	105	54	0.240	pg	# 44
84]	* 1,2,4-Trimethylbenzene	17.352	105	50	0.246	pg	# 23
86]	* 1,3-Dichlorobenzene	17.470	146	55	0.437	pg	# 18
87]	* 1,4-Dichlorobenzene	17.530	146	51	0.417	pg	# 18
89]	sec-Butylbenzene	17.584	105	57	0.199	pg	# 56
91]	p-Isopropyltoluene	17.719	119	64	0.264	pg	# 48
97]	* 1,2,4-Trichlorobenzene	19.327	180	78	0.932	pg	# 98
98]	* Naphthalene	19.436	128	66	0.364	pg	# 68
100]	* Hexachlorobutadiene	19.789	225	122	1.570	pg	# 41

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

Data Path : I:\MS21\DATA\2023_03\03\
Data File : 03032325.D
Acq On : 4 Mar 2023 9:50
Operator : KM
Sample : AC02002
Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial : 206 Sample Multiplier: 1

Quant Time: Mar 06 08:38:26 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA T0-15
QLast Update : Wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data Path : I:\MS21\DATA\2023_03\09\
 Data File : 03092325.D
 Acq On : 10 Mar 2023 10:20
 Operator : KM
 Sample : SC01645
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 206 Sample Multiplier: 1

APL 3/10/23

Quant Time: Mar 10 10:59:27 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA TO-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.734	130	62602	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.901	114	228582	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	34850	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.550	65	97102	1011.78	pg	0.00
Spiked Amount 1000.000			Recovery	=	101.18%	
57) Toluene-d8 (SS2)	12.697	98	212711	863.60	pg	0.00
Spiked Amount 1000.000			Recovery	=	86.36%	
74) Bromofluorobenzene (SS3)	16.228	174	100098	1029.55	pg	0.00
Spiked Amount 1000.000			Recovery	=	102.96%	

Target Compounds						Qvalue
3] * Dichlorodifluoromethane	3.729	85	4697	44.202	pg	100
4] * Chloromethane	3.861	50	2071	42.431	pg	97
5] * 1,2-Dichloro-1,1,2,2...	3.951	85	181	2.752	pg	93
7] * 1,3-Butadiene	4.152	54	49	1.258	pg	# 5
8] * Bromomethane	4.372	94	280	7.507	pg	95
9] * Chloroethane	4.507	64	255	7.524	pg	95
10] * Ethanol	4.601	45	23647	1059.485	pg	98
11] * Acetonitrile	4.773	41	5227	65.059	pg	98
12] * Acrolein	4.884	56	2401	74.888	pg	98
13] * Acetone	5.008	58	38376	888.935	pg	80
14] * Trichlorofluoromethane	5.132	101	3074	22.665	pg	99
15] * 2-Propanol (Isopropa...	5.207	45	4764	123.924	pg	98
16] * Acrylonitrile	5.356	53	174	2.903	pg	92
18] tert-Butanol	5.754	59	2147	37.262	pg	# 64
19] * Methylene Chloride	5.744	84	6024	91.720	pg	99
21] * Trichlorotrifluoroet...	5.997	151	639	9.282	pg	97
22] * Carbon Disulfide	6.021	76	44263	198.911	pg	99
26] * Vinyl Acetate	6.888	86	3044	637.284	pg	# 1
27] * 2-Butanone (MEK)	7.169	72	4790	120.090	pg	91
29] DIPE	7.831	45	931	6.286	pg	# 49
30] * Ethyl Acetate	7.831	61	1048	87.684	pg	94
31] * n-Hexane	7.825	57	214	2.465	pg	94
32] * Chloroform	7.870	83	416	3.658	pg	95
34] * Tetrahydrofuran	8.344	71	514	14.995	pg	98
36] * 1,2-Dichloroethane	8.666	62	212	2.518	pg	99
39] * Benzene	9.490	78	2886	14.185	pg	100
42] * Carbon Tetrachloride	9.667	117	767	29.629	pg	99
43] * Cyclohexane	9.818	84	88	1.114	pg	89
45] * 1,2-Dichloropropane	10.430	63	121	2.663	pg	# 1
46] * Bromodichloromethane	10.633	83	78	1.834	pg	86
47] * Trichloroethene	10.699	130	117	1.672	pg	97
48] * 1,4-Dioxane	10.742	88	3549	65.308	pg	# 82
49] Isooctane	10.713	56	195	2.893	pg	72
50] * Methyl Methacrylate	10.960	69	82	3.004	pg	# 32
51] * n-Heptane	11.076	71	116	1.932	pg	# 39
53] * 4-Methyl-2-pentanone	11.793	58	526	12.839	pg	94
58] * Toluene	12.810	91	2587	10.215	pg	98
59] * 2-Hexanone	13.168	58	1230	25.282	pg	99
60] * Dibromochloromethane	13.265	129	86	3.715	pg	94
62] * n-Butyl Acetate	13.907	56	84	4.938	pg	# 30
63] * n-Octane	14.000	85	59	1.057	pg	# 16
64] * Tetrachloroethene	14.104	166	98	1.300	pg	91
65] * Chlorobenzene	14.826	112	251	1.451	pg	# 73
66] * Ethylbenzene	15.220	91	523	1.909	pg	99

Data Path : I:\MS21\DATA\2023_03\09\
 Data File : 03092325.D
 Acq On : 10 Mar 2023 10:20
 Operator : KM
 Sample : SC01645
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 206 Sample Multiplier: 1

Quant Time: Mar 10 10:59:27 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA TO-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67]	* m- & p-Xylenes	15.381	91	1151	5.346	pg	97
68]	* Bromoform	15.423	173	99	6.018	pg	96
70]	* Styrene	15.727	104	531	3.626	pg	99
71]	* o-Xylene	15.822	91	548	2.456	pg	100
72]	* n-Nonane	16.067	57	142	1.817	pg	91
73]	* 1,1,2,2-Tetrachloroe...	15.798	83	65	0.872	pg	# 18
75]	* Cumene	16.363	105	136	0.452	pg	# 48
76]	* alpha-Pinene	16.705	93	257	1.897	pg	# 72
77]	* n-Propylbenzene	16.812	91	317	0.947	pg	# 86
78]	3-Ethyltoluene	16.938	105	228	0.830	pg	93
79]	* 4-Ethyltoluene	16.938	105	228	0.854	pg	94
80]	* 1,3,5-Trimethylbenzene	17.006	105	198	0.832	pg	92
83]	tert-Butylbenzene	17.373	134	191	3.305	pg	# 1
84]	* 1,2,4-Trimethylbenzene	17.351	105	559	2.321	pg	# 82
85]	* Benzyl Chloride	17.459	126	75	8.861	pg	77
86]	* 1,3-Dichlorobenzene	17.470	146	228	1.528	pg	99
87]	* 1,4-Dichlorobenzene	17.530	146	280	1.934	pg	100
89]	sec-Butylbenzene	17.584	105	106	0.312	pg	# 56
91]	p-Isopropyltoluene	17.718	119	709	2.466	pg	99
92]	* 1,2-Dichlorobenzene	17.816	146	164	1.065	pg	99
93]	* D-Limonene	17.843	68	258	6.142	pg	96
94]	n-Butylbenzene	18.070	134	72	1.048	pg	# 1
95]	* 1,2-Dibromo-3-chloro...	18.187	157	95	5.991	pg	83
97]	* 1,2,4-Trichlorobenzene	19.321	180	451	4.549	pg	97
98]	* Naphthalene	19.434	128	988	4.594	pg	98
100]	* Hexachlorobutadiene	19.792	225	138	1.499	pg	89

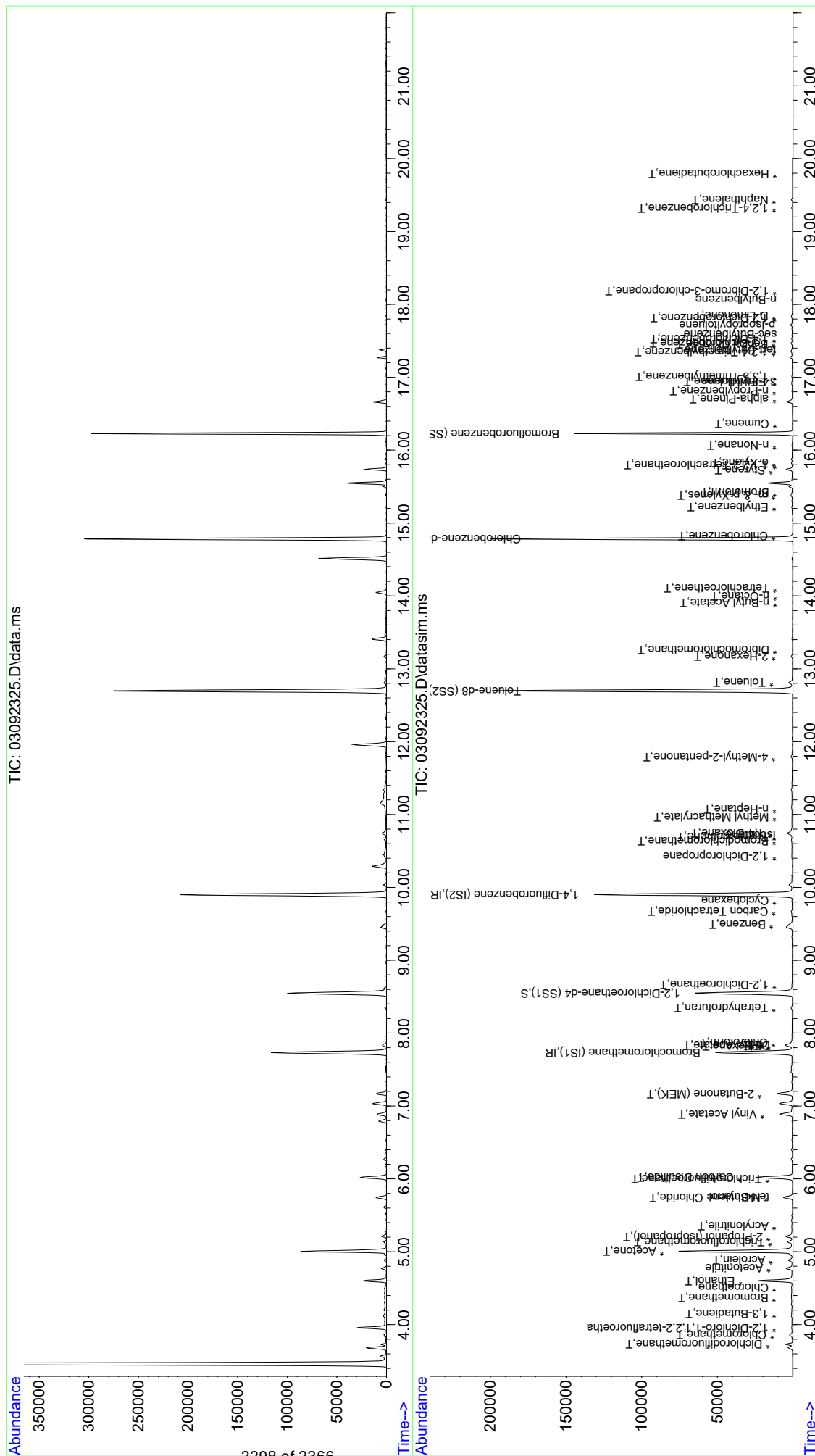
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data Path      : I:\MS21\DATA\2023_03\09\
Data File     : 03092325.D
Acq On       : 10 Mar 2023  10:20
Operator      : KM
Sample        : SC01645
MISC         : LL + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial     : 206 Sample Multiplier: 1

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Quant Time: Mar 10 10:59:27 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA 10-15
Quant Update : wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data Path : I:\MS21\DATA\2023_03\08\
 Data File : 03082333.D
 Acq On : 9 Mar 2023 14:01
 Operator : KM
 Sample : AS01023
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 215 Sample Multiplier: 1

APL 3/10/23

Quant Time: Mar 10 05:14:20 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.727	130	52820	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.901	114	182611	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	29841	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.545	65	82868	1023.37	pg	0.00
Spiked Amount 1000.000			Recovery	=	102.34%	
57) Toluene-d8 (SS2)	12.697	98	181512	860.63	pg	0.00
Spiked Amount 1000.000			Recovery	=	86.06%	
74) Bromofluorobenzene (SS3)	16.228	174	84097	1010.17	pg	0.00
Spiked Amount 1000.000			Recovery	=	101.02%	

Target Compounds						Qvalue
3] * Dichlorodifluoromethane	3.720	85	2446	27.282	pg	99
4] * Chloromethane	3.851	50	1465	35.573	pg	100
5] * 1,2-Dichloro-1,1,2,2...	3.936	85	1048	18.884	pg	99
6] * Vinyl Chloride	4.032	62	679	13.836	pg	99
7] * 1,3-Butadiene	4.147	54	544	16.547	pg	# 51
8] * Bromomethane	4.362	94	843	26.789	pg	93
9] * Chloroethane	4.502	64	577	20.177	pg	89
10] * Ethanol	4.596	45	6402	339.957	pg	97
11] * Acetonitrile	4.762	41	2073	30.581	pg	99
12] * Acrolein	4.877	56	3662	135.372	pg	98
13] * Acetone	5.002	58	25978	713.191	pg	91
14] * Trichlorofluoromethane	5.126	101	2464	21.532	pg	99
15] * 2-Propanol (Isopropa...	5.200	45	5742	177.026	pg	94
16] * Acrylonitrile	5.349	53	1099	21.728	pg	98
17] * 1,1-Dichloroethene	5.652	96	615	11.310	pg	98
18] tert-Butanol	5.744	59	4973	102.291	pg	# 72
19] * Methylene Chloride	5.739	84	1084	19.561	pg	98
20] * 3-Chloro-1-propene (...)	5.846	41	402	11.519	pg	89
21] * Trichlorotrifluoroet...	5.992	151	1000	17.217	pg	99
22] * Carbon Disulfide	6.011	76	17766	94.623	pg	98
23] * trans-1,2-Dichloroet...	6.576	96	640	11.615	pg	98
24] * 1,1-Dichloroethane	6.767	63	952	11.755	pg	98
25] * Methyl tert-Butyl Ether	6.882	73	1237	8.788	pg	98
26] * Vinyl Acetate	6.887	86	1518	376.661	pg	# 1
27] * 2-Butanone (MEK)	7.164	72	5042	149.818	pg	87
28] * cis-1,2-Dichloroethene	7.572	96	640	10.942	pg	96
30] * Ethyl Acetate	7.831	61	1024	101.543	pg	92
31] * n-Hexane	7.818	57	723	9.869	pg	96
32] * Chloroform	7.863	83	1451	15.122	pg	100
34] * Tetrahydrofuran	8.334	71	714	24.687	pg	97
35] ETBE	8.429	87	999	20.363	pg	94
36] * 1,2-Dichloroethane	8.666	62	1029	14.488	pg	100
38] * 1,1,1-Trichloroethane	8.972	97	1247	27.892	pg	98
39] * Benzene	9.484	78	2973	18.291	pg	100
42] * Carbon Tetrachloride	9.661	117	1180	57.057	pg	98
43] * Cyclohexane	9.812	84	1175	18.626	pg	94
44] TAME	10.237	87	823	31.071	pg	93
45] * 1,2-Dichloropropane	10.423	63	590	16.254	pg	87
46] * Bromodichloromethane	10.619	83	1180	34.736	pg	97
47] * Trichloroethene	10.698	130	928	16.597	pg	98
48] * 1,4-Dioxane	10.742	88	1303	30.014	pg	86
49] Isooctane	10.778	56	654	12.146	pg	91
50] * Methyl Methacrylate	10.952	69	1288	59.065	pg	97
51] * n-Heptane	11.083	71	598	12.467	pg	99

Data Path : I:\MS21\DATA\2023_03\08\
 Data File : 03082333.D
 Acq On : 9 Mar 2023 14:01
 Operator : KM
 Sample : AS01023
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 215 Sample Multiplier: 1

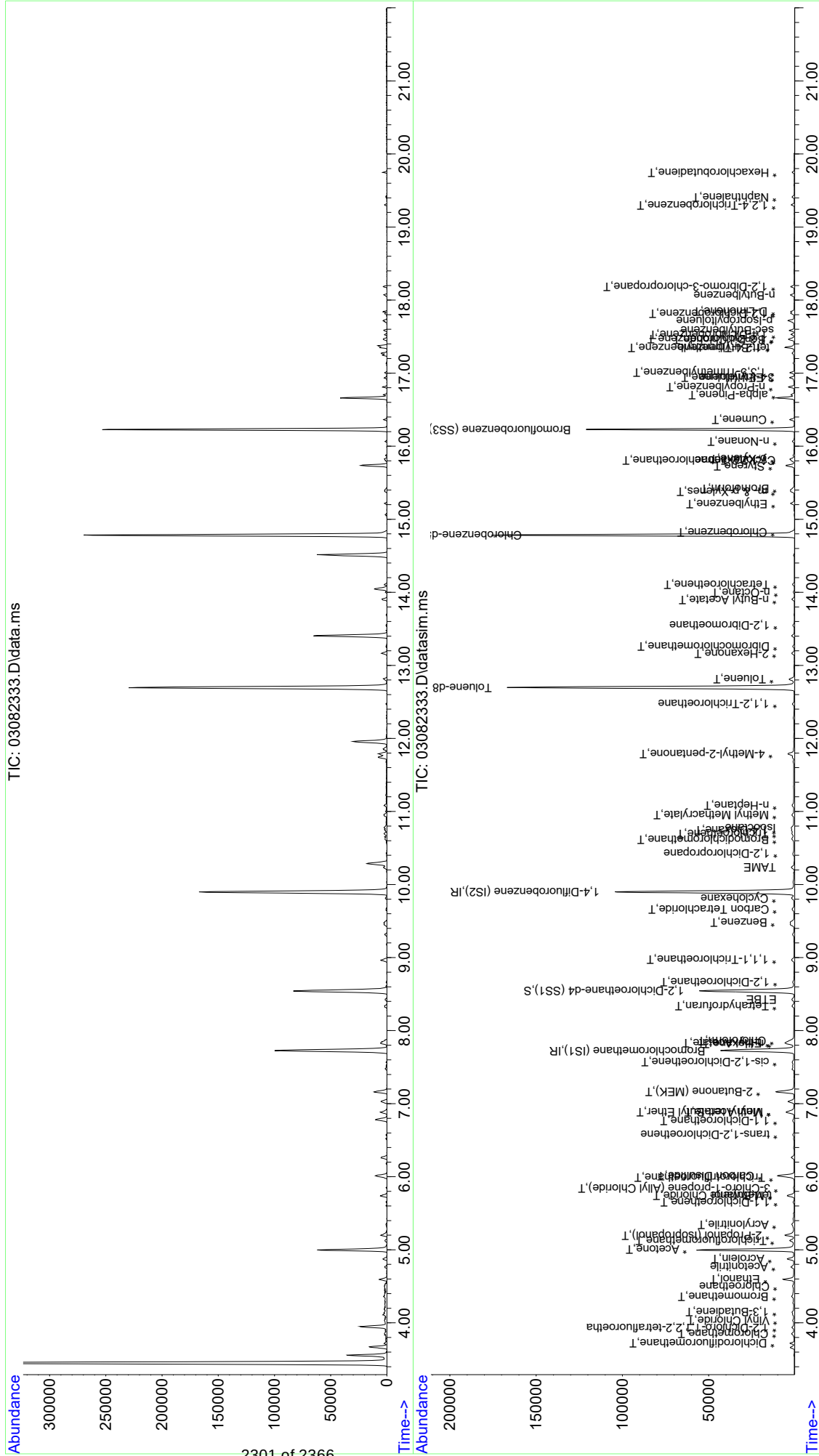
Quant Time: Mar 10 05:14:20 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
53]	* 4-Methyl-2-pentanone	11.787	58	1738	53.103	pg	89
55]	* 1,1,2-Trichloroethane	12.475	97	673	17.221	pg	99
58]	* Toluene	12.810	91	3088	14.240	pg	98
59]	* 2-Hexanone	13.162	58	2115	50.770	pg	98
60]	* Dibromochloromethane	13.260	129	855	43.132	pg	100
61]	* 1,2-Dibromoethane	13.547	107	773	27.996	pg	97
62]	* n-Butyl Acetate	13.902	56	1609	110.469	pg	93
63]	* n-Octane	14.000	85	492	10.295	pg	99
64]	* Tetrachloroethene	14.103	166	1012	15.684	pg	100
65]	* Chlorobenzene	14.826	112	1958	13.217	pg	97
66]	* Ethylbenzene	15.214	91	2206	9.403	pg	100
67]	* m- & p-Xylenes	15.381	91	3539	19.196	pg	96
68]	* Bromoform	15.422	173	696	49.414	pg	97
69]	Cyclohexanone	15.804	98	138	11.844	pg	# 100
70]	* Styrene	15.727	104	1364	10.878	pg	98
71]	* o-Xylene	15.822	91	2016	10.551	pg	99
72]	* n-Nonane	16.067	57	597	8.923	pg	97
73]	* 1,1,2,2-Tetrachloroe...	15.804	83	1188	18.607	pg	98
75]	* Cumene	16.363	105	2520	9.790	pg	100
76]	* alpha-Pinene	16.705	93	1228	10.584	pg	# 86
77]	* n-Propylbenzene	16.811	91	3122	10.887	pg	94
78]	3-Ethyltoluene	16.938	105	2021	8.593	pg	99
79]	* 4-Ethyltoluene	16.938	105	2021	8.841	pg	99
80]	* 1,3,5-Trimethylbenzene	17.006	105	1748	8.583	pg	100
83]	tert-Butylbenzene	17.351	134	608	12.286	pg	# 61
84]	* 1,2,4-Trimethylbenzene	17.351	105	1941	9.411	pg	96
85]	* Benzyl Chloride	17.459	126	562	77.545	pg	72
86]	* 1,3-Dichlorobenzene	17.470	146	1363	10.666	pg	100
87]	* 1,4-Dichlorobenzene	17.529	146	1235	9.961	pg	99
89]	sec-Butylbenzene	17.583	105	2376	8.170	pg	100
91]	p-Isopropyltoluene	17.718	119	2333	9.475	pg	100
92]	* 1,2-Dichlorobenzene	17.815	146	1373	10.408	pg	99
93]	* D-Limonene	17.842	68	782	21.740	pg	93
94]	n-Butylbenzene	18.070	134	482	8.194	pg	# 42
95]	* 1,2-Dibromo-3-chloro...	18.187	157	1367	100.682	pg	94
97]	* 1,2,4-Trichlorobenzene	19.302	180	1197	14.100	pg	97
98]	* Naphthalene	19.411	128	1444	7.842	pg	99
100]	* Hexachlorobutadiene	19.750	225	1094	13.880	pg	100

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

Data Path : I:\MS21\DATA\2023_03\08\
Data File : 03082333.D
Acq On : 9 Mar 2023 14:01
Operator : KM
Sample : AS01023
Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial : 215 Sample Multiplier: 1

Quant Time: Mar 10 05:14:20 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA T0-15
QLast Update : wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data Path : I:\MS21\DATA\2023_03\07\
 Data File : 03072328.D
 Acq On : 8 Mar 2023 9:22
 Operator : KM
 Sample : AC02387
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 210 Sample Multiplier: 1

APL 3/8/23

Quant Time: Mar 08 10:31:12 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.727	130	53853	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.896	114	196667	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	31051	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.540	65	86954	1053.23	pg	0.00
Spiked Amount 1000.000			Recovery =	105.32%		
57) Toluene-d8 (SS2)	12.697	98	175889	801.47	pg	0.00
Spiked Amount 1000.000			Recovery =	80.15%		
74) Bromofluorobenzene (SS3)	16.228	174	80714	931.75	pg	0.00
Spiked Amount 1000.000			Recovery =	93.17%		
Target Compounds						Qvalue
3] * Dichlorodifluoromethane	3.720	85	4720	51.635	pg	100
4] * Chloromethane	3.851	50	1004	23.912	pg	98
5] * 1,2-Dichloro-1,1,2,2...	3.941	85	162	2.863	pg	92
7] * 1,3-Butadiene	4.132	54	10	0.298	pg	# 5
8] * Bromomethane	4.367	94	51	1.590	pg	# 37
9] * Chloroethane	4.497	64	205	7.031	pg	# 42
10] * Ethanol	4.591	45	20112	1047.496	pg	98
11] * Acetonitrile	4.762	41	907	13.123	pg	97
12] * Acrolein	4.878	56	425	15.410	pg	96
13] * Acetone	4.995	58	6993	188.301	pg	82
14] * Trichlorofluoromethane	5.126	101	2874	24.633	pg	99
15] * 2-Propanol (Isopropa...	5.194	45	3004	90.837	pg	96
16] * Acrylonitrile	5.349	53	70	1.357	pg	# 8
18] tert-Butanol	5.749	59	582	11.742	pg	# 71
19] * Methylene Chloride	5.734	84	1457	25.788	pg	99
21] * Trichlorotrifluoroet...	5.987	151	589	9.946	pg	99
22] * Carbon Disulfide	6.011	76	2343	12.240	pg	99
26] * Vinyl Acetate	6.887	86	348	84.693	pg	# 3
27] * 2-Butanone (MEK)	7.164	72	606	17.661	pg	90
30] * Ethyl Acetate	7.818	61	6176	600.684	pg	93
31] * n-Hexane	7.818	57	245	3.280	pg	# 63
32] * Chloroform	7.864	83	233	2.382	pg	98
36] * 1,2-Dichloroethane	8.656	62	135	1.864	pg	# 42
39] * Benzene	9.484	78	1880	10.740	pg	100
42] * Carbon Tetrachloride	9.661	117	689	30.935	pg	99
43] * Cyclohexane	9.807	84	103	1.516	pg	89
46] * Bromodichloromethane	10.619	83	87	2.378	pg	# 18
48] * 1,4-Dioxane	10.757	88	79	1.690	pg	# 13
49] Isooctane	10.778	56	195	3.363	pg	# 50
51] * n-Heptane	11.076	71	93	1.800	pg	# 39
53] * 4-Methyl-2-pentanone	11.792	58	298	8.454	pg	96
58] * Toluene	12.805	91	3026	13.410	pg	99
59] * 2-Hexanone	13.173	58	85	1.961	pg	# 48
60] * Dibromochloromethane	13.254	129	90	4.363	pg	97
63] * n-Octane	14.005	85	58	1.166	pg	# 16
64] * Tetrachloroethene	14.103	166	69	1.028	pg	98
65] * Chlorobenzene	14.826	112	77	0.499	pg	# 42
66] * Ethylbenzene	15.214	91	527	2.159	pg	97
67] * m- & p-Xylenes	15.381	91	1508	7.861	pg	99
68] * Bromoform	15.417	173	76	5.186	pg	# 26
70] * Styrene	15.721	104	347	2.660	pg	98
71] * o-Xylene	15.822	91	699	3.516	pg	99
72] * n-Nonane	16.061	57	114	1.638	pg	99
75] * Cumene	16.363	105	117	0.437	pg	# 48

Data Path : I:\MS21\DATA\2023_03\07\
 Data File : 03072328.D
 Acq On : 8 Mar 2023 9:22
 Operator : KM
 Sample : AC02387
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 210 Sample Multiplier: 1

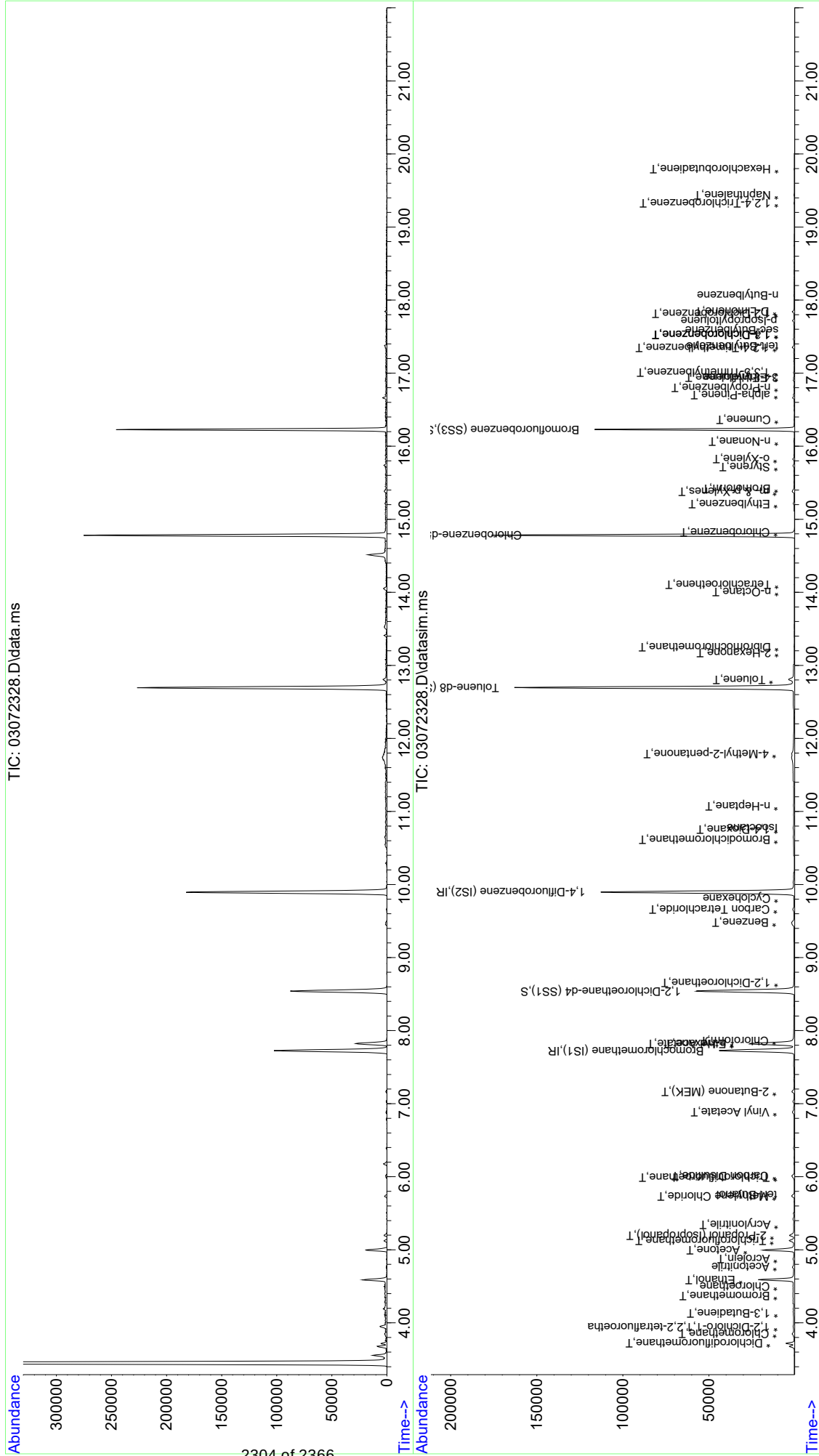
Quant Time: Mar 08 10:31:12 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA TO-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
76]	* alpha-Pinene	16.705	93	294	2.435	pg	#	73
77]	* n-Propylbenzene	16.807	91	257	0.861	pg		96
78]	3-Ethyltoluene	16.938	105	237	0.968	pg		96
79]	* 4-Ethyltoluene	16.938	105	226	0.950	pg		99
80]	* 1,3,5-Trimethylbenzene	17.006	105	228	1.076	pg		96
83]	tert-Butylbenzene	17.373	134	85	1.651	pg	#	13
84]	* 1,2,4-Trimethylbenzene	17.351	105	703	3.276	pg		85
86]	* 1,3-Dichlorobenzene	17.530	146	116	0.872	pg		98
87]	* 1,4-Dichlorobenzene	17.530	146	123	0.953	pg		97
89]	sec-Butylbenzene	17.589	105	83	0.274	pg	#	56
91]	p-Isopropyltoluene	17.718	119	420	1.639	pg		95
92]	* 1,2-Dichlorobenzene	17.816	146	63	0.459	pg	#	18
93]	* D-Limonene	17.843	68	403	10.767	pg		93
94]	n-Butylbenzene	18.063	134	58	0.948	pg		72
97]	* 1,2,4-Trichlorobenzene	19.326	180	127	1.438	pg		96
98]	* Naphthalene	19.434	128	216	1.127	pg	#	68
100]	* Hexachlorobutadiene	19.792	225	130	1.585	pg	#	41

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

Data Path : I:\MS21\DATA\2023_03\07\
Data File : 03072328.D
Acq On : 8 Mar 2023 9:22
Operator : KM
Sample : AC02387
Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial : 210 Sample Multiplier: 1

Quant Time: Mar 08 10:31:12 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA T0-15
QLast Update : Wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data Path : I:\MS21\DATA\2023_03\10\
 Data File : 03102319.D
 Acq On : 11 Mar 2023 5:09
 Operator : KM
 Sample : AC02349
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 15 Sample Multiplier: 1

APL 3/13/23

Quant Time: Mar 13 07:44:42 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.728	130	49258	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.901	114	162551	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	25009	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.545	65	77137	1021.48	pg	0.00
Spiked Amount 1000.000			Recovery	=	102.15%	
57) Toluene-d8 (SS2)	12.697	98	154267	872.78	pg	0.00
Spiked Amount 1000.000			Recovery	=	87.28%	
74) Bromofluorobenzene (SS3)	16.228	174	63622	911.88	pg	0.00
Spiked Amount 1000.000			Recovery	=	91.19%	
Target Compounds						Qvalue
3] * Dichlorodifluoromethane	3.720	85	6490	77.621	pg	98
4] * Chloromethane	3.851	50	1250	32.548	pg	99
5] * 1,2-Dichloro-1,1,2,2...	3.936	85	298	5.758	pg	95
6] * Vinyl Chloride	4.032	62	71	1.551	pg	# 42
7] * 1,3-Butadiene	4.147	54	101	3.294	pg	# 1
8] * Bromomethane	4.367	94	275	9.371	pg	87
9] * Chloroethane	4.508	64	91	3.412	pg	# 42
10] * Ethanol	4.596	45	13377	761.709	pg	98
11] * Acetonitrile	4.768	41	1253	19.821	pg	98
12] * Acrolein	4.878	56	516	20.454	pg	93
13] * Acetone	5.002	58	12122	356.859	pg	81
14] * Trichlorofluoromethane	5.126	101	3919	36.723	pg	99
15] * 2-Propanol (Isopropa...	5.201	45	3766	124.502	pg	95
16] * Acrylonitrile	5.356	53	138	2.926	pg	92
17] * 1,1-Dichloroethene	5.647	96	63	1.242	pg	# 18
18] tert-Butanol	5.754	59	669	14.756	pg	# 1
19] * Methylene Chloride	5.735	84	16986	328.687	pg	100
20] * 3-Chloro-1-propene (...)	5.842	41	52	1.598	pg	# 26
21] * Trichlorotrifluoroet...	5.992	151	839	15.489	pg	100
22] * Carbon Disulfide	6.017	76	2665	15.220	pg	99
23] * trans-1,2-Dichloroet...	6.576	96	83	1.615	pg	85
24] * 1,1-Dichloroethane	6.757	63	103	1.364	pg	# 42
25] * Methyl tert-Butyl Ether	6.883	73	123	0.937	pg	# 1
26] * Vinyl Acetate	6.888	86	395	105.099	pg	# 9
27] * 2-Butanone (MEK)	7.169	72	758	24.152	pg	84
28] * cis-1,2-Dichloroethene	7.566	96	68	1.247	pg	# 18
30] * Ethyl Acetate	7.825	61	6291	668.947	pg	95
31] * n-Hexane	7.818	57	599	8.768	pg	# 83
32] * Chloroform	7.864	83	450	5.029	pg	91
34] * Tetrahydrofuran	8.344	71	53	1.965	pg	# 1
35] ETBE	8.435	87	77	1.683	pg	95
36] * 1,2-Dichloroethane	8.656	62	236	3.563	pg	100
38] * 1,1,1-Trichloroethane	8.972	97	142	3.568	pg	98
39] * Benzene	9.490	78	2842	19.643	pg	99
42] * Carbon Tetrachloride	9.656	117	924	50.193	pg	100
43] * Cyclohexane	9.813	84	350	6.233	pg	97
44] TAME	10.243	87	67	2.842	pg	# 1
45] * 1,2-Dichloropropane	10.416	63	82	2.538	pg	88
46] * Bromodichloromethane	10.626	83	186	6.151	pg	91
47] * Trichloroethene	10.699	130	176	3.536	pg	99
48] * 1,4-Dioxane	10.757	88	388	10.040	pg	96
49] Isooctane	10.778	56	696	14.521	pg	# 62
50] * Methyl Methacrylate	10.953	69	150	7.728	pg	95
51] * n-Heptane	11.083	71	313	7.331	pg	98

Data Path : I:\MS21\DATA\2023_03\10\
 Data File : 03102319.D
 Acq On : 11 Mar 2023 5:09
 Operator : KM
 Sample : AC02349
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 15 Sample Multiplier: 1

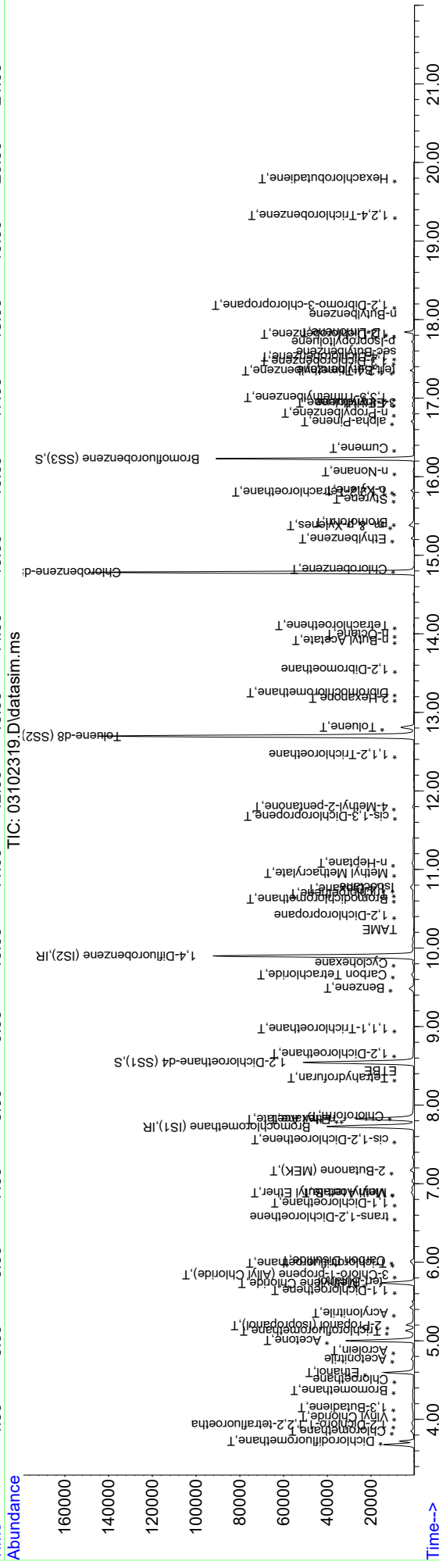
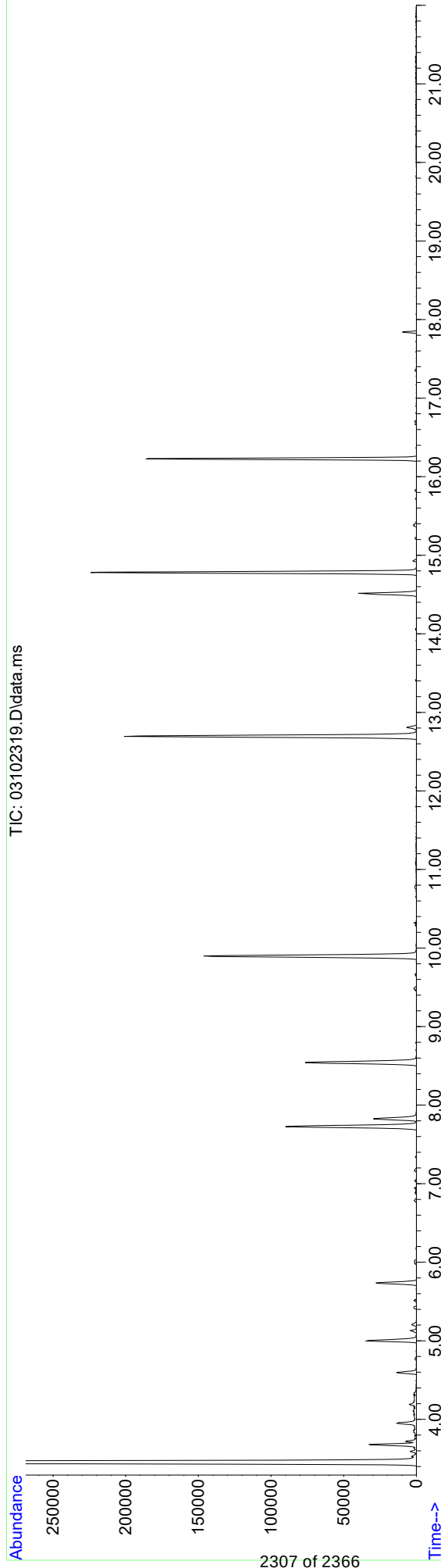
Quant Time: Mar 13 07:44:42 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
52]	* cis-1,3-Dichloropropene	11.680	75	54	1.946	pg	# 11
53]	* 4-Methyl-2-pentanone	11.798	58	340	11.670	pg	99
55]	* 1,1,2-Trichloroethane	12.470	97	73	2.098	pg	# 19
58]	* Toluene	12.810	91	6832	37.592	pg	97
59]	* 2-Hexanone	13.179	58	176	5.041	pg	# 86
60]	* Dibromochloromethane	13.255	129	158	9.510	pg	99
61]	* 1,2-Dibromoethane	13.547	107	65	2.809	pg	88
62]	* n-Butyl Acetate	13.917	56	184	15.074	pg	# 79
63]	* n-Octane	14.000	85	121	3.021	pg	86
64]	* Tetrachloroethene	14.109	166	186	3.439	pg	92
65]	* Chlorobenzene	14.826	112	199	1.603	pg	97
66]	* Ethylbenzene	15.214	91	1225	6.230	pg	100
67]	* m- & p-Xylenes	15.381	91	2759	17.857	pg	99
68]	* Bromoform	15.423	173	246	20.840	pg	97
70]	* Styrene	15.721	104	558	5.310	pg	100
71]	* o-Xylene	15.822	91	1118	6.982	pg	100
72]	* n-Nonane	16.067	57	153	2.729	pg	98
73]	* 1,1,2,2-Tetrachloroe...	15.804	83	129	2.411	pg	93
75]	* Cumene	16.363	105	325	1.507	pg	98
76]	* alpha-Pinene	16.705	93	840	8.639	pg	# 83
77]	* n-Propylbenzene	16.812	91	473	1.968	pg	95
78]	3-Ethyltoluene	16.938	105	415	2.105	pg	98
79]	* 4-Ethyltoluene	16.938	105	403	2.104	pg	97
80]	* 1,3,5-Trimethylbenzene	17.006	105	358	2.097	pg	95
83]	tert-Butylbenzene	17.362	134	53	1.278	pg	# 50
84]	* 1,2,4-Trimethylbenzene	17.352	105	883	5.108	pg	88
86]	* 1,3-Dichlorobenzene	17.470	146	94	0.878	pg	94
87]	* 1,4-Dichlorobenzene	17.530	146	137	1.318	pg	93
89]	sec-Butylbenzene	17.584	105	254	1.042	pg	91
91]	p-Isopropyltoluene	17.719	119	479	2.321	pg	96
92]	* 1,2-Dichlorobenzene	17.816	146	103	0.932	pg	88
93]	* D-Limonene	17.837	68	1774	58.846	pg	87
94]	n-Butylbenzene	18.070	134	85	1.724	pg	# 61
95]	* 1,2-Dibromo-3-chloro...	18.187	157	105	9.228	pg	95
97]	* 1,2,4-Trichlorobenzene	19.331	180	59	0.829	pg	91
100]	* Hexachlorobutadiene	19.793	225	191	2.892	pg	98

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

```
Data Path      : I:\MS21\DATA\2023_03\10\
Data File     : 03102319.D
Acq On       : 11 Mar 2023   5:09
Operator      : KM
Sample        : AC02349
Misc          : LL + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial      : 15 Sample Multiplier: 1
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Quant Time: Mar 13 07:44:42 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA TO-15
Quant Update : Wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data Path : I:\MS21\DATA\2023_03\09\
 Data File : 03092318.D
 Acq On : 10 Mar 2023 4:55
 Operator : KM
 Sample : AS01610
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 14 Sample Multiplier: 1

APL 3/10/23

Quant Time: Mar 10 08:07:53 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.734	130	54752	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.901	114	183875	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	29208	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.550	65	85752	1021.62	pg	0.00
Spiked Amount 1000.000			Recovery	=	102.16%	
57) Toluene-d8 (SS2)	12.697	98	181533	879.39	pg	0.00
Spiked Amount 1000.000			Recovery	=	87.94%	
74) Bromofluorobenzene (SS3)	16.228	174	81797	1003.83	pg	0.00
Spiked Amount 1000.000			Recovery	=	100.38%	

Target Compounds						Qvalue
3] * Dichlorodifluoromethane	3.729	85	4361	46.924	pg	100
4] * Chloromethane	3.861	50	911	21.341	pg	99
5] * 1,2-Dichloro-1,1,2,2...	3.946	85	231	4.016	pg	95
6] * Vinyl Chloride	4.047	62	77	1.514	pg	# 42
7] * 1,3-Butadiene	4.157	54	74	2.171	pg	# 66
8] * Bromomethane	4.372	94	178	5.457	pg	# 53
9] * Chloroethane	4.513	64	83	2.800	pg	# 42
10] * Ethanol	4.606	45	12792	655.308	pg	98
11] * Acetonitrile	4.778	41	988	14.061	pg	93
12] * Acrolein	4.890	56	734	26.176	pg	99
13] * Acetone	5.014	58	9045	239.556	pg	99
14] * Trichlorofluoromethane	5.132	101	2738	23.082	pg	100
15] * 2-Propanol (Isopropa...	5.213	45	2130	63.351	pg	96
16] * Acrylonitrile	5.356	53	149	2.842	pg	100
17] * 1,1-Dichloroethene	5.657	96	58	1.029	pg	# 18
18] tert-Butanol	5.764	59	626	12.422	pg	# 37
19] * Methylene Chloride	5.744	84	5334	92.859	pg	100
21] * Trichlorotrifluoroet...	5.997	151	605	10.049	pg	98
22] * Carbon Disulfide	6.021	76	2661	13.673	pg	99
23] * trans-1,2-Dichloroet...	6.581	96	78	1.366	pg	97
24] * 1,1-Dichloroethane	6.762	63	92	1.096	pg	# 42
25] * Methyl tert-Butyl Ether	6.897	73	110	0.754	pg	# 59
26] * Vinyl Acetate	6.892	86	279	66.785	pg	# 13
27] * 2-Butanone (MEK)	7.179	72	853	24.452	pg	81
28] * cis-1,2-Dichloroethene	7.578	96	70	1.155	pg	# 18
29] DIPE	7.838	45	1019	7.866	pg	# 55
30] * Ethyl Acetate	7.838	61	1086	103.891	pg	96
31] * n-Hexane	7.825	57	175	2.305	pg	# 81
32] * Chloroform	7.870	83	276	2.775	pg	96
34] * Tetrahydrofuran	8.354	71	96	3.202	pg	# 61
35] ETBE	8.440	87	73	1.435	pg	97
36] * 1,2-Dichloroethane	8.671	62	204	2.771	pg	98
38] * 1,1,1-Trichloroethane	8.982	97	122	2.710	pg	94
39] * Benzene	9.489	78	1605	9.807	pg	98
42] * Carbon Tetrachloride	9.661	117	657	31.550	pg	95
43] * Cyclohexane	9.818	84	138	2.173	pg	91
44] TAME	10.248	87	61	2.287	pg	# 1
45] * 1,2-Dichloropropane	10.423	63	129	3.530	pg	# 1
46] * Bromodichloromethane	10.626	83	146	4.268	pg	88
47] * Trichloroethene	10.691	130	118	2.096	pg	89
48] * 1,4-Dioxane	10.764	88	191	4.369	pg	98
49] Isooctane	10.778	56	132	2.435	pg	100
50] * Methyl Methacrylate	10.952	69	144	6.558	pg	99
51] * n-Heptane	11.083	71	104	2.153	pg	# 39

Data Path : I:\MS21\DATA\2023_03\09\
 Data File : 03092318.D
 Acq On : 10 Mar 2023 4:55
 Operator : KM
 Sample : AS01610
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 10 08:07:53 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
52]	* cis-1,3-Dichloropropene	11.680	75	58	1.848	pg	# 11
53]	* 4-Methyl-2-pentanone	11.804	58	366	11.106	pg	99
55]	* 1,1,2-Trichloroethane	12.469	97	79	2.008	pg	# 19
58]	* Toluene	12.810	91	1952	9.196	pg	98
59]	* 2-Hexanone	13.173	58	303	7.431	pg	97
60]	* Dibromochloromethane	13.260	129	138	7.112	pg	98
61]	* 1,2-Dibromoethane	13.547	107	57	2.109	pg	96
62]	* n-Butyl Acetate	13.912	56	137	9.610	pg	100
63]	* n-Octane	14.000	85	81	1.732	pg	92
64]	* Tetrachloroethene	14.109	166	135	2.138	pg	100
65]	* Chlorobenzene	14.826	112	229	1.579	pg	93
66]	* Ethylbenzene	15.214	91	448	1.951	pg	97
67]	* m- & p-Xylenes	15.381	91	848	4.699	pg	97
68]	* Bromoform	15.423	173	123	8.922	pg	99
70]	* Styrene	15.721	104	414	3.373	pg	# 69
71]	* o-Xylene	15.822	91	447	2.390	pg	99
72]	* n-Nonane	16.067	57	144	2.199	pg	96
73]	* 1,1,2,2-Tetrachloroe...	15.798	83	138	2.208	pg	99
75]	* Cumene	16.363	105	288	1.143	pg	99
76]	* alpha-Pinene	16.705	93	243	2.140	pg	# 83
77]	* n-Propylbenzene	16.812	91	341	1.215	pg	# 90
78]	3-Ethyltoluene	16.938	105	240	1.043	pg	99
79]	* 4-Ethyltoluene	16.938	105	240	1.073	pg	99
80]	* 1,3,5-Trimethylbenzene	17.006	105	225	1.129	pg	99
83]	tert-Butylbenzene	17.373	134	107	2.209	pg	# 22
84]	* 1,2,4-Trimethylbenzene	17.346	105	711	3.522	pg	# 59
86]	* 1,3-Dichlorobenzene	17.476	146	120	0.959	pg	90
87]	* 1,4-Dichlorobenzene	17.529	146	119	0.981	pg	94
89]	sec-Butylbenzene	17.583	105	256	0.899	pg	92
91]	p-Isopropyltoluene	17.718	119	424	1.759	pg	98
92]	* 1,2-Dichlorobenzene	17.821	146	122	0.945	pg	99
93]	* D-Limonene	17.837	68	142	4.033	pg	89
94]	n-Butylbenzene	18.070	134	60	1.042	pg	# 38
95]	* 1,2-Dibromo-3-chloro...	18.187	157	119	8.955	pg	84
97]	* 1,2,4-Trichlorobenzene	19.321	180	110	1.324	pg	98
98]	* Naphthalene	19.434	128	122	0.677	pg	# 68
100]	* Hexachlorobutadiene	19.792	225	200	2.593	pg	94

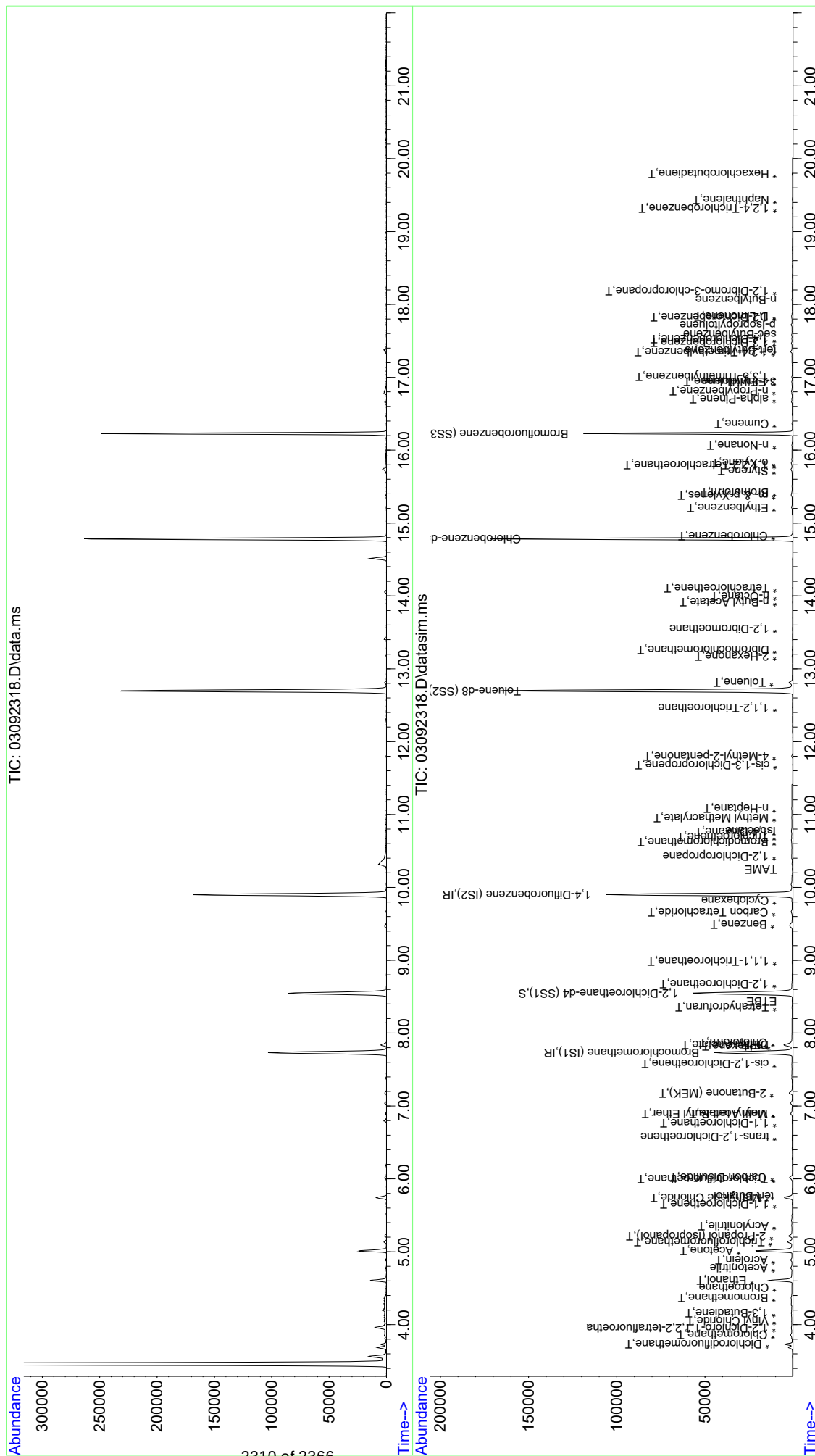
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File     : 03092318.D
Acq On       : 10 Mar 2023   4:55
Operator      : KM
Sample        : AS01610
Mwisc        : LL + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial     : 14   Sample Multiplier: 1

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Quant Time: Mar 10 08:07:53 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA 10-15
QLast Update : wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data Path : I:\MS21\DATA\2023_03\10\
 Data File : 03102314.D
 Acq On : 11 Mar 2023 1:24
 Operator : KM
 Sample : AC02385
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 10 Sample Multiplier: 1

APL 3/13/23

Quant Time: Mar 13 07:26:21 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.734	130	51774	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.901	114	173340	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	26153	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.550	65	80904	1019.30	pg	0.00
Spiked Amount 1000.000			Recovery	=	101.93%	
57) Toluene-d8 (SS2)	12.697	98	162249	877.78	pg	0.00
Spiked Amount 1000.000			Recovery	=	87.78%	
74) Bromofluorobenzene (SS3)	16.228	174	65523	898.05	pg	0.00
Spiked Amount 1000.000			Recovery	=	89.80%	
Target Compounds						Qvalue
3] * Dichlorodifluoromethane	3.733	85	833	9.479	pg	99
4] * Chloromethane	3.856	50	575	14.244	pg	98
5] * 1,2-Dichloro-1,1,2,2...	3.946	85	116	2.132	pg	# 42
6] * Vinyl Chloride	4.042	62	84	1.746	pg	# 42
7] * 1,3-Butadiene	4.147	54	44	1.365	pg	# 5
8] * Bromomethane	4.377	94	119	3.858	pg	94
9] * Chloroethane	4.508	64	119	4.245	pg	# 42
10] * Ethanol	4.606	45	3372	182.677	pg	98
11] * Acetonitrile	4.773	41	475	7.149	pg	99
12] * Acrolein	4.884	56	442	16.669	pg	98
13] * Acetone	5.002	58	124511	3487.343	pg	75
14] * Trichlorofluoromethane	5.138	101	565	5.037	pg	98
15] * 2-Propanol (Isopropa...	5.213	45	2272	71.461	pg	# 66
16] * Acrylonitrile	5.362	53	128	2.582	pg	89
17] * 1,1-Dichloroethene	5.662	96	60	1.126	pg	# 18
18] tert-Butanol	5.764	59	765	16.053	pg	# 64
19] * Methylene Chloride	5.744	84	1871	34.445	pg	99
21] * Trichlorotrifluoroet...	5.992	151	161	2.828	pg	97
22] * Carbon Disulfide	6.021	76	2446	13.291	pg	99
23] * trans-1,2-Dichloroet...	6.586	96	69	1.278	pg	# 18
24] * 1,1-Dichloroethane	6.772	63	93	1.172	pg	# 42
25] * Methyl tert-Butyl Ether	6.888	73	112	0.812	pg	# 59
26] * Vinyl Acetate	6.888	86	449	113.661	pg	# 12
27] * 2-Butanone (MEK)	7.179	72	941	28.526	pg	87
28] * cis-1,2-Dichloroethene	7.579	96	70	1.221	pg	92
29] DIPE	7.838	45	614	5.012	pg	# 62
30] * Ethyl Acetate	7.838	61	566	57.260	pg	97
31] * n-Hexane	7.825	57	142	1.978	pg	# 53
32] * Chloroform	7.870	83	218	2.318	pg	97
34] * Tetrahydrofuran	8.349	71	276	9.736	pg	89
36] * 1,2-Dichloroethane	8.671	62	111	1.594	pg	# 72
38] * 1,1,1-Trichloroethane	8.977	97	124	2.922	pg	96
39] * Benzene	9.490	78	1185	7.680	pg	97
42] * Carbon Tetrachloride	9.662	117	166	8.456	pg	97
43] * Cyclohexane	9.823	84	112	1.870	pg	# 62
44] TAME	10.243	87	63	2.506	pg	92
45] * 1,2-Dichloropropane	10.423	63	58	1.683	pg	# 23
46] * Bromodichloromethane	10.626	83	137	4.249	pg	98
47] * Trichloroethene	10.699	130	129	2.430	pg	95
48] * 1,4-Dioxane	10.757	88	1395	33.851	pg	# 78
49] Isooctane	10.786	56	148	2.896	pg	# 25
50] * Methyl Methacrylate	10.960	69	101	4.879	pg	# 86
51] * n-Heptane	11.083	71	88	1.933	pg	# 39
52] * cis-1,3-Dichloropropene	11.680	75	51	1.724	pg	# 1

Data Path : I:\MS21\DATA\2023_03\10\
 Data File : 03102314.D
 Acq On : 11 Mar 2023 1:24
 Operator : KM
 Sample : AC02385
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 10 Sample Multiplier: 1

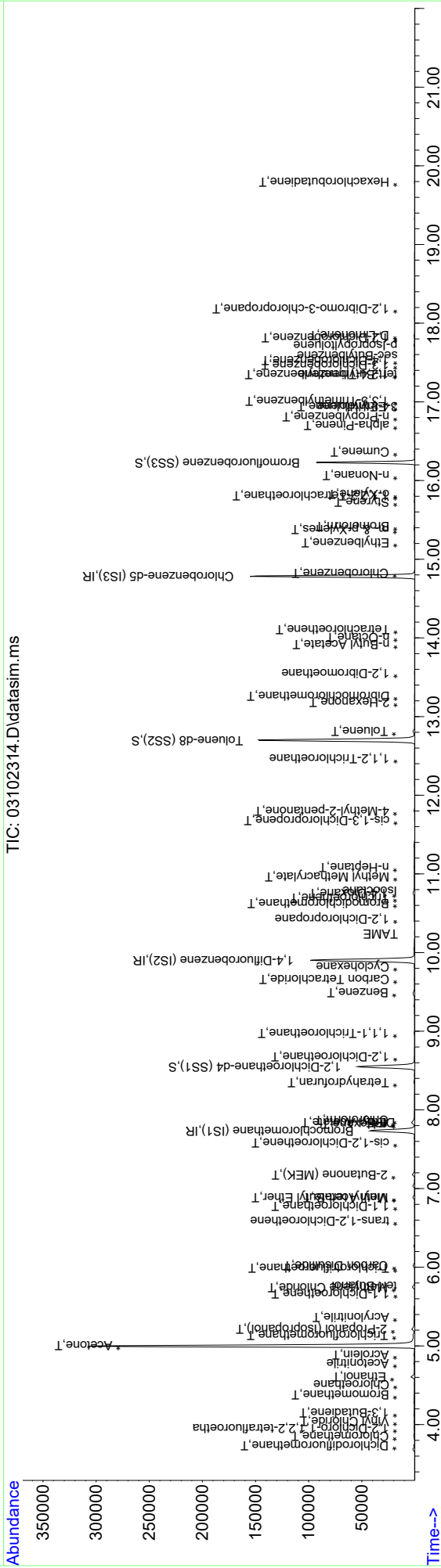
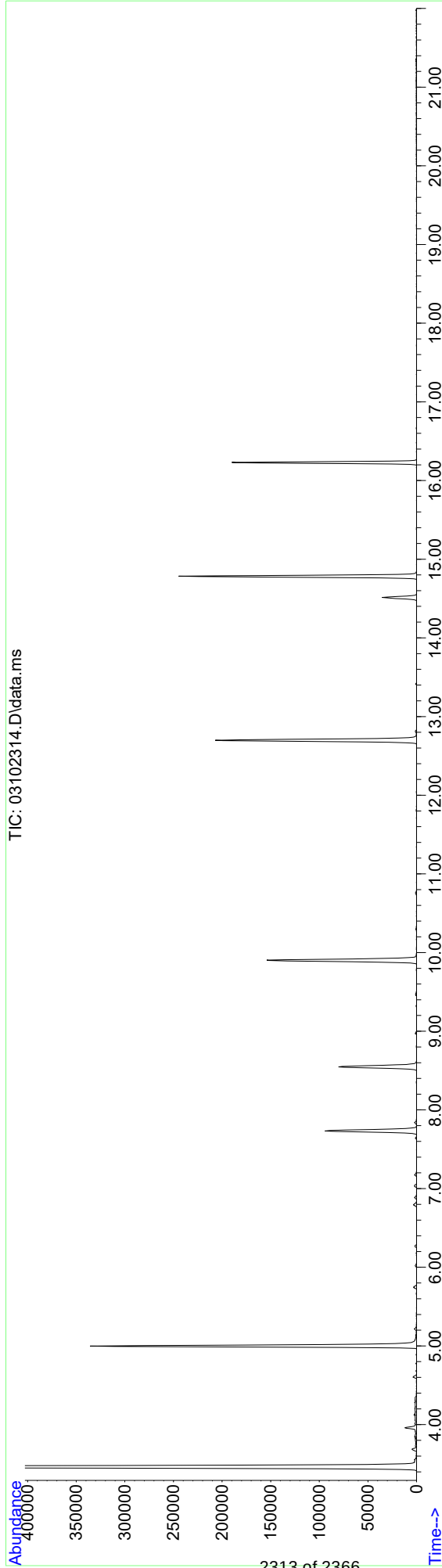
Quant Time: Mar 13 07:26:21 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
53]	* 4-Methyl-2-pentanone	11.804	58	299	9.624	pg	92
55]	* 1,1,2-Trichloroethane	12.469	97	71	1.914	pg	# 19
58]	* Toluene	12.810	91	1394	7.335	pg	99
59]	* 2-Hexanone	13.179	58	227	6.217	pg	94
60]	* Dibromochloromethane	13.265	129	115	6.619	pg	99
61]	* 1,2-Dibromoethane	13.547	107	59	2.438	pg	99
62]	* n-Butyl Acetate	13.917	56	237	18.566	pg	98
63]	* n-Octane	14.005	85	58	1.385	pg	# 16
64]	* Tetrachloroethene	14.104	166	118	2.087	pg	96
65]	* Chlorobenzene	14.826	112	195	1.502	pg	98
66]	* Ethylbenzene	15.214	91	305	1.483	pg	96
67]	* m- & p-Xylenes	15.381	91	598	3.701	pg	99
68]	* Bromoform	15.423	173	97	7.858	pg	# 26
70]	* Styrene	15.727	104	156	1.420	pg	94
71]	* o-Xylene	15.822	91	247	1.475	pg	99
72]	* n-Nonane	16.067	57	82	1.398	pg	# 28
73]	* 1,1,2,2-Tetrachloroe...	15.804	83	137	2.448	pg	92
75]	* Cumene	16.363	105	253	1.121	pg	99
76]	* alpha-Pinene	16.700	93	141	1.387	pg	# 77
77]	* n-Propylbenzene	16.812	91	274	1.090	pg	97
78]	3-Ethyltoluene	16.938	105	195	0.946	pg	100
79]	* 4-Ethyltoluene	16.938	105	195	0.973	pg	100
80]	* 1,3,5-Trimethylbenzene	17.006	105	202	1.132	pg	98
83]	tert-Butylbenzene	17.352	134	55	1.268	pg	71
84]	* 1,2,4-Trimethylbenzene	17.352	105	251	1.389	pg	96
86]	* 1,3-Dichlorobenzene	17.470	146	96	0.857	pg	98
87]	* 1,4-Dichlorobenzene	17.530	146	85	0.782	pg	99
89]	sec-Butylbenzene	17.584	105	211	0.828	pg	92
91]	p-Isopropyltoluene	17.719	119	344	1.594	pg	99
92]	* 1,2-Dichlorobenzene	17.816	146	114	0.986	pg	100
93]	* D-Limonene	17.843	68	125	3.965	pg	95
95]	* 1,2-Dibromo-3-chloro...	18.187	157	87	7.311	pg	90
100]	* Hexachlorobutadiene	19.792	225	188	2.722	pg	94

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

Data Path : I:\MS21\DATA\2023_03\10\
Data File : 03102314.D
Acq On : 11 Mar 2023 1:24
Operator : KM
Sample : AC02385
Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 13 07:26:21 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA T0-15
QLast Update : Wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data Path : I:\MS21\DATA\2023_03\02\
 Data File : 03022327.D
 Acq On : 3 Mar 2023 11:36
 Operator : KM
 Sample : AC02215
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 209 Sample Multiplier: 1

APL 3/3/23

Quant Time: Mar 03 12:07:39 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA TO-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.734	130	66009	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.901	114	201343	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	31635	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.545	65	95772	946.41	pg	0.00
Spiked Amount 1000.000			Recovery	=	94.64%	
57) Toluene-d8 (SS2)	12.697	98	200675	897.53	pg	0.00
Spiked Amount 1000.000			Recovery	=	89.75%	
74) Bromofluorobenzene (SS3)	16.228	174	84866	961.60	pg	0.00
Spiked Amount 1000.000			Recovery	=	96.16%	
Target Compounds						Qvalue
3] * Dichlorodifluoromethane	3.729	85	4352	38.842	pg	100
4] * Chloromethane	3.856	50	1021	19.839	pg	98
5] * 1,2-Dichloro-1,1,2,2...	3.946	85	161	2.321	pg	91
7] * 1,3-Butadiene	4.147	54	25	0.608	pg	# 5
8] * Bromomethane	4.367	94	73	1.856	pg	# 58
9] * Chloroethane	4.513	64	100	2.798	pg	# 38
10] * Ethanol	4.606	45	4875	207.147	pg	99
11] * Acetonitrile	4.773	41	938	11.073	pg	98
12] * Acrolein	4.884	56	539	15.944	pg	98
13] * Acetone	5.008	58	7346	161.379	pg	97
14] * Trichlorofluoromethane	5.132	101	2675	18.705	pg	100
15] * 2-Propanol (Isopropa...	5.213	45	2566	63.303	pg	96
16] * Acrylonitrile	5.362	53	58	0.918	pg	# 8
18] tert-Butanol	5.763	59	320	5.267	pg	# 1
19] * Methylene Chloride	5.744	84	9048	130.653	pg	99
21] * Trichlorotrifluoroet...	5.992	151	568	7.825	pg	98
22] * Carbon Disulfide	6.021	76	3042	12.965	pg	98
26] * Vinyl Acetate	6.892	86	318	63.139	pg	# 1
27] * 2-Butanone (MEK)	7.179	72	616	14.647	pg	91
30] * Ethyl Acetate	7.831	61	4350	345.172	pg	92
31] * n-Hexane	7.825	57	227	2.480	pg	# 55
32] * Chloroform	7.870	83	155	1.293	pg	95
34] * Tetrahydrofuran	8.354	71	76	2.103	pg	# 78
36] * 1,2-Dichloroethane	8.666	62	112	1.262	pg	# 42
39] * Benzene	9.489	78	1724	9.620	pg	100
42] * Carbon Tetrachloride	9.661	117	578	25.348	pg	99
43] * Cyclohexane	9.818	84	112	1.610	pg	86
45] * 1,2-Dichloropropane	10.423	63	56	1.399	pg	# 23
46] * Bromodichloromethane	10.626	83	64	1.709	pg	# 18
48] * 1,4-Dioxane	10.756	88	316	6.602	pg	92
49] Isooctane	10.771	56	172	2.897	pg	# 43
51] * n-Heptane	11.083	71	119	2.250	pg	# 39
53] * 4-Methyl-2-pentanone	11.798	58	354	9.810	pg	100
58] * Toluene	12.810	91	3804	16.547	pg	99
59] * 2-Hexanone	13.178	58	75	1.698	pg	# 48
60] * Dibromochloromethane	13.254	129	66	3.141	pg	100
64] * Tetrachloroethene	14.109	166	63	0.921	pg	# 11
65] * Chlorobenzene	14.826	112	112	0.713	pg	# 42
66] * Ethylbenzene	15.214	91	387	1.556	pg	98
67] * m- & p-Xylenes	15.381	91	887	4.538	pg	98
68] * Bromoform	15.423	173	75	5.023	pg	# 26
70] * Styrene	15.721	104	234	1.760	pg	100
71] * o-Xylene	15.822	91	353	1.743	pg	99
73] * 1,1,2,2-Tetrachloroe...	15.798	83	55	0.813	pg	# 18

Data Path : I:\MS21\DATA\2023_03\02\
 Data File : 03022327.D
 Acq On : 3 Mar 2023 11:36
 Operator : KM
 Sample : AC02215
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 209 Sample Multiplier: 1

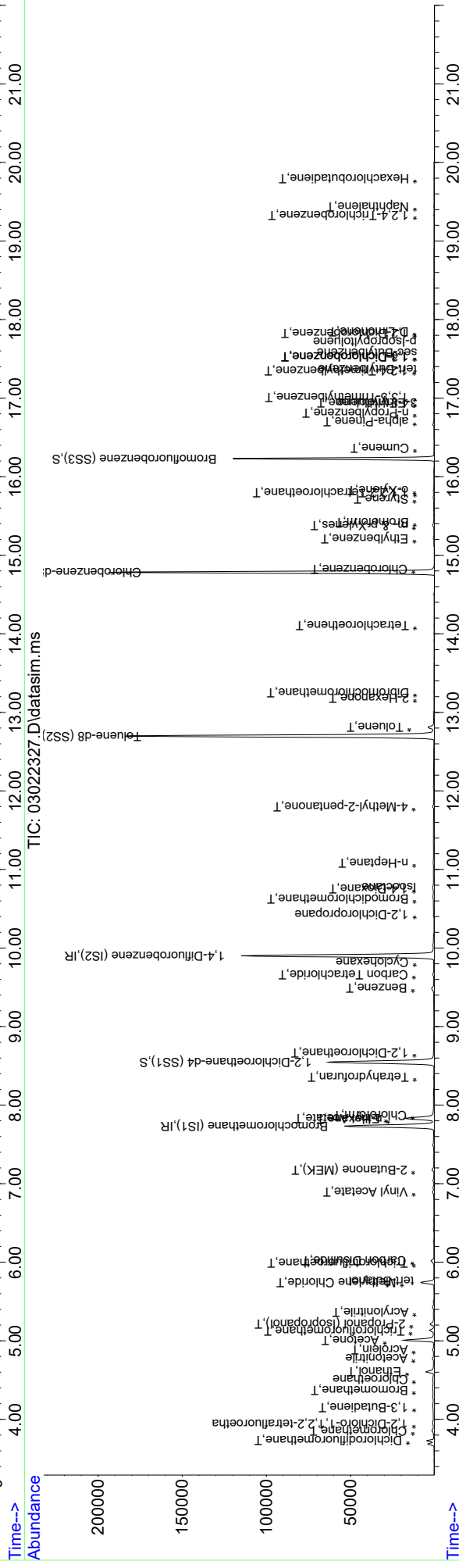
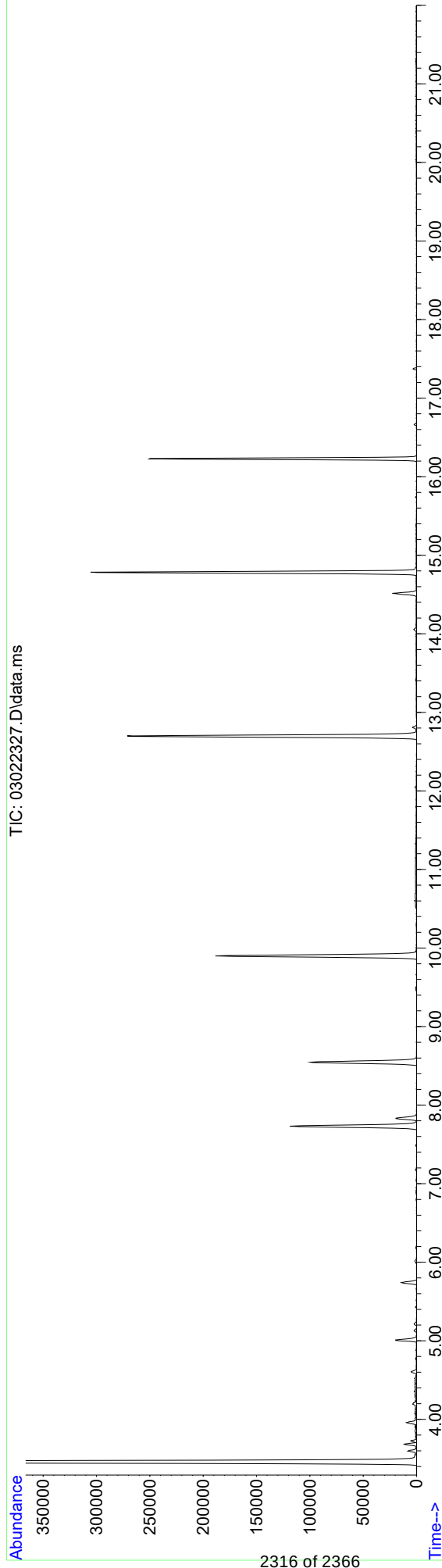
Quant Time: Mar 03 12:07:39 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75]	* Cumene	16.368	105	102	0.374	pg	# 48
76]	* alpha-Pinene	16.705	93	194	1.577	pg	# 79
77]	* n-Propylbenzene	16.811	91	151	0.497	pg	# 51
78]	3-Ethyltoluene	16.942	105	119	0.477	pg	# 44
79]	* 4-Ethyltoluene	16.942	105	119	0.491	pg	# 44
80]	* 1,3,5-Trimethylbenzene	17.006	105	121	0.560	pg	# 28
83]	tert-Butylbenzene	17.373	134	111	2.116	pg	# 1
84]	* 1,2,4-Trimethylbenzene	17.351	105	277	1.267	pg	92
86]	* 1,3-Dichlorobenzene	17.529	146	87	0.642	pg	88
87]	* 1,4-Dichlorobenzene	17.529	146	87	0.662	pg	85
89]	sec-Butylbenzene	17.583	105	62	0.201	pg	# 56
91]	p-Isopropyltoluene	17.718	119	189	0.724	pg	97
92]	* 1,2-Dichlorobenzene	17.821	146	50	0.358	pg	# 18
93]	* D-Limonene	17.842	68	100	2.622	pg	97
97]	* 1,2,4-Trichlorobenzene	19.326	180	107	1.189	pg	98
98]	* Naphthalene	19.439	128	162	0.830	pg	# 68
100]	* Hexachlorobutadiene	19.792	225	128	1.532	pg	# 41

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

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Data Path      : I:\MS21\DATA\2023_03\02\  
Data File     : 03022327.D  
Acq On       : 3 Mar 2023 11:36  
Operator      : KM  
Sample        : AC02215  
Misc          : LL + TICS (Sig #1); S35-02272301 (Sig #2)  
ALS Vial     : 209 Sample Multiplier: 1
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Quant Time: Mar 03 12:07:39 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA TO-15
Quant Update : Wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data File : I:\MS13\DATA\2023_03\06\03062314.D
 Acq On : 6 Mar 2023 12:49
 Sample : AC02339_30695
 Misc : S35-01202301

Vial: 16
 Operator: TZ
 Inst : MS13

TZ 3/6/23

Quant Time: Mar 06 13:15:33 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	192435	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.37	114	825397	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.88	54	146657	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	314850	12.329	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery	=	98.64%	
57) Toluene-d8 (SS2)	12.48	98	922673	12.234	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	97.84%	
73) Bromofluorobenzene (SS3)	16.85	174	349181	12.640	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	101.12%	

Target Compounds

						Qvalue
2) Propene	3.44	42	891	N.D.		
3) Dichlorodifluoromethan...	3.50	85	270	N.D.		
4) Chloromethane	3.64	50	249	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	4.42	45	2445	0.179	ng	93
11) Acetonitrile	4.59	41	572	N.D.		
12) Acrolein	4.68	56	65	N.D.		
13) Acetone	4.78	58	1733	0.149	ng	96
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) 2-Propanol (Isopropanol)	4.98	45	2739	0.058	ng	100
16) Acrylonitrile	5.14	53	116	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.		
19) Methylene Chloride	5.46	84	333	N.D.		
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	5.73	76	5050	0.075	ng	93
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone (MEK)	0.00	72	0	N.D.		
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	0.00	57	0	N.D.		
32) Chloroform	0.00	83	0	N.D.		
34) Tetrahydrofuran (THF)	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	9.37	61	22578	No	Calib	
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	8.97	78	490	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	9.36	84	454	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS13\DATA\2023_03\06\03062314.D
 Acq On : 6 Mar 2023 12:49
 Sample : AC02339_30695
 Misc : S35-01202301

Vial: 16
 Operator: TZ
 Inst : MS13

Quant Time: Mar 06 13:15:33 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

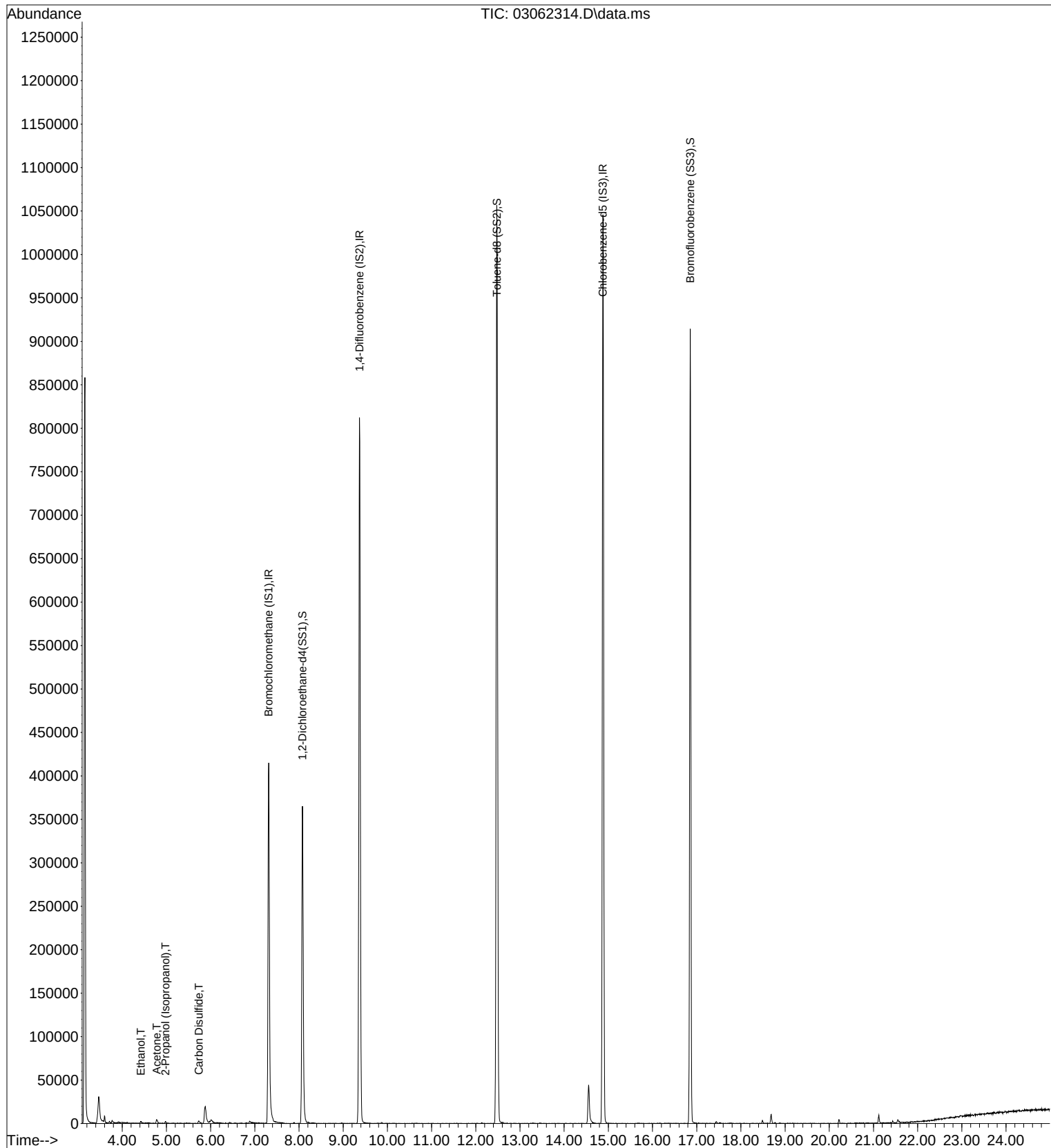
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.60	91	480	N.D.		
59) 2-Hexanone	0.00	43	0	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	0.00	43	0	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	15.44	91	146	N.D.		
67) m- & p-Xylenes	15.70	91	459	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	16.27	91	125	N.D.		
71) n-Nonane	0.00	43	0	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	0.00	105	0	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	17.75	91	170	N.D.		
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	0.00	105	0	N.D.		
79) 1,3,5-Trimethylbenzene	0.00	105	0	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	18.61	105	241	N.D.		
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	18.77	91	437	N.D.		
85) 1,3-Dichlorobenzene	18.77	146	286	N.D.		
86) 1,4-Dichlorobenzene	18.86	146	379	N.D.		
87) sec-Butylbenzene	0.00	105	0	N.D.		
88) 4-Isopropyltoluene (p-...	19.18	119	229	N.D.		
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	0.00	68	0	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	21.43	180	907	N.D.		
95) Naphthalene	21.57	128	1410	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	0.00	119	0	N.D.		
100) n-Butylbenzene	0.00	91	0	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\06\03062314.D
Acq On : 6 Mar 2023 12:49
Sample : AC02339_30695
Misc : S35-01202301

Vial: 16
Operator: TZ
Inst : MS13

Quant Time: Mar 06 13:15:33 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data Path : I:\MS21\DATA\2023_03\10\
 Data File : 03102310.D
 Acq On : 10 Mar 2023 22:24
 Operator : KM
 Sample : AS00760_SFC00309,264,257,318,483 (24HR)
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 6 Sample Multiplier: 1

APL 3/13/23

Quant Time: Mar 13 07:02:46 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA TO-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.728	130	49170	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.901	114	164887	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	25570	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.545	65	77264	1025.00	pg	0.00
Spiked Amount 1000.000			Recovery	=	102.50%	
57) Toluene-d8 (SS2)	12.697	98	156899	868.19	pg	0.00
Spiked Amount 1000.000			Recovery	=	86.82%	
74) Bromofluorobenzene (SS3)	16.228	174	67874	951.48	pg	0.00
Spiked Amount 1000.000			Recovery	=	95.15%	

Target	Compounds					Qvalue
2]	* Propene	3.677	42	496	15.580 pg	# 1
3]	* Dichlorodifluoromethane	3.725	85	936	11.215 pg	99
4]	* Chloromethane	3.851	50	316	8.243 pg	94
5]	* 1,2-Dichloro-1,1,2,2...	3.941	85	103	1.994 pg	# 42
6]	* Vinyl Chloride	4.027	62	51	1.116 pg	# 42
7]	* 1,3-Butadiene	4.152	54	38	1.242 pg	# 5
8]	* Bromomethane	4.362	94	69	2.355 pg	82
9]	* Chloroethane	4.497	64	97	3.644 pg	# 42
10]	* Ethanol	4.601	45	2712	154.702 pg	98
11]	* Acetonitrile	4.773	41	253	4.009 pg	# 80
12]	* Acrolein	4.884	56	247	9.809 pg	96
13]	* Acetone	5.008	58	3640	107.349 pg	100
14]	* Trichlorofluoromethane	5.126	101	597	5.604 pg	100
15]	* 2-Propanol (Isopropa...	5.207	45	1278	42.326 pg	92
16]	* Acrylonitrile	5.356	53	85	1.805 pg	94
18]	tert-Butanol	5.754	59	400	8.838 pg	# 52
19]	* Methylene Chloride	5.735	84	4107	79.615 pg	100
21]	* Trichlorotrifluoroet...	5.987	151	165	3.052 pg	96
22]	* Carbon Disulfide	6.016	76	1998	11.431 pg	98
23]	* trans-1,2-Dichloroet...	6.576	96	53	1.033 pg	# 18
24]	* 1,1-Dichloroethane	6.767	63	72	0.955 pg	# 42
25]	* Methyl tert-Butyl Ether	6.888	73	87	0.664 pg	# 59
26]	* Vinyl Acetate	6.898	86	152	40.515 pg	# 1
27]	* 2-Butanone (MEK)	7.174	72	320	10.214 pg	78
30]	* Ethyl Acetate	7.831	61	2298	244.793 pg	92
31]	* n-Hexane	7.812	57	294	4.311 pg	# 86
32]	* Chloroform	7.864	83	138	1.545 pg	90
34]	* Tetrahydrofuran	8.354	71	74	2.749 pg	91
36]	* 1,2-Dichloroethane	8.661	62	102	1.543 pg	# 1
38]	* 1,1,1-Trichloroethane	8.972	97	86	2.130 pg	97
39]	* Benzene	9.490	78	2920	19.896 pg	98
42]	* Carbon Tetrachloride	9.667	117	149	7.979 pg	92
43]	* Cyclohexane	9.823	84	108	1.896 pg	84
45]	* 1,2-Dichloropropane	10.416	63	56	1.709 pg	# 23
46]	* Bromodichloromethane	10.619	83	121	3.945 pg	91
47]	* Trichloroethene	10.699	130	91	1.802 pg	98
48]	* 1,4-Dioxane	10.771	88	92	2.347 pg	97
49]	Isooctane	10.778	56	121	2.489 pg	# 57
50]	* Methyl Methacrylate	10.960	69	76	3.860 pg	# 32
51]	* n-Heptane	11.090	71	212	4.895 pg	92
53]	* 4-Methyl-2-pentanone	11.804	58	253	8.561 pg	95
55]	* 1,1,2-Trichloroethane	12.475	97	50	1.417 pg	# 19
58]	* Toluene	12.810	91	2069	11.135 pg	97
59]	* 2-Hexanone	13.173	58	133	3.726 pg	# 48

Data Path : I:\MS21\DATA\2023_03\10\
 Data File : 03102310.D
 Acq On : 10 Mar 2023 22:24
 Operator : KM
 Sample : AS00760_SFC00309,264,257,318,483 (24HR)
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 6 Sample Multiplier: 1

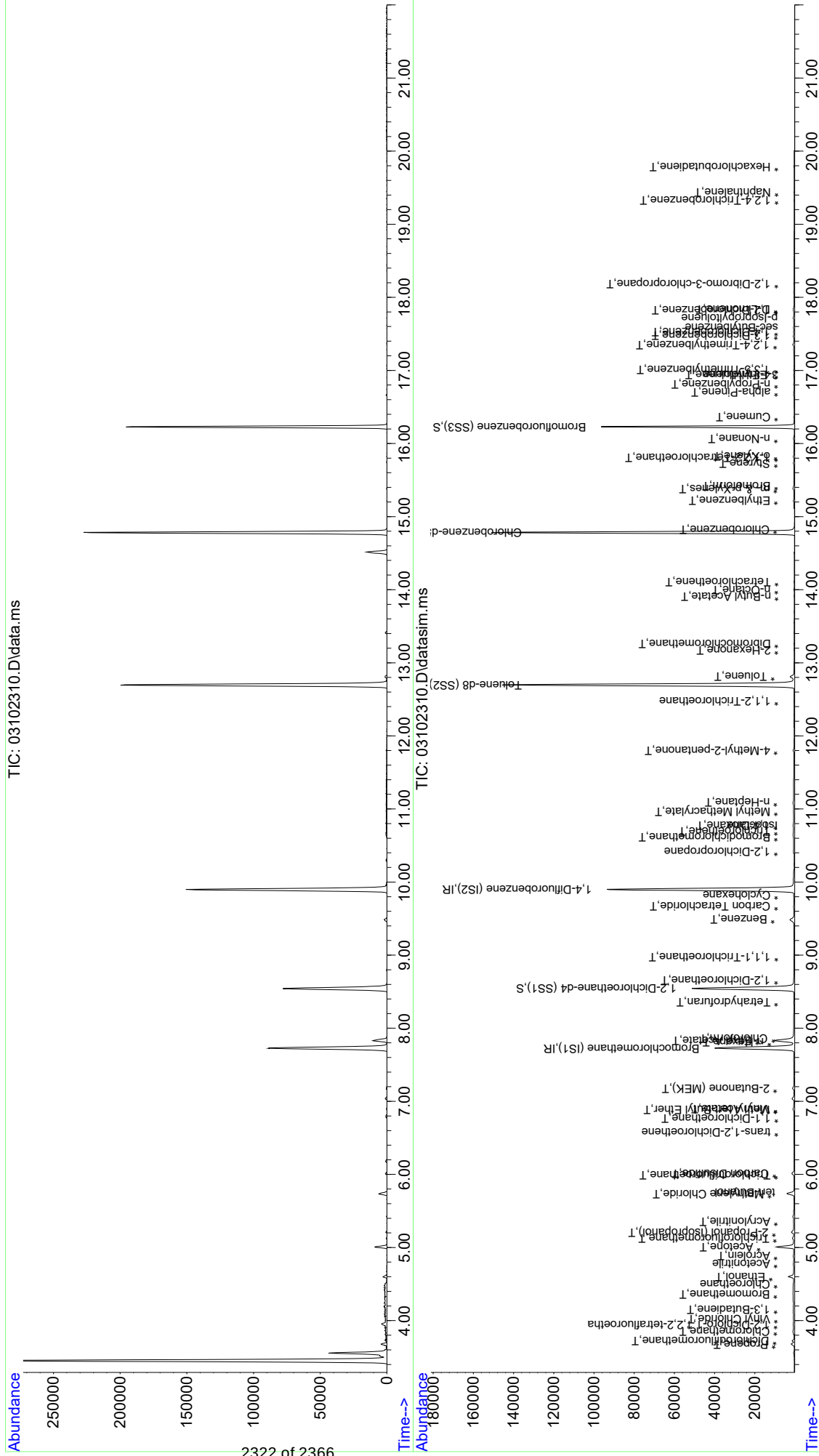
Quant Time: Mar 13 07:02:46 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
60]	* Dibromochloromethane	13.260	129	89	5.240	pg	92
62]	* n-Butyl Acetate	13.907	56	95	7.612	pg	# 83
63]	* n-Octane	14.000	85	172	4.200	pg	96
64]	* Tetrachloroethene	14.104	166	129	2.333	pg	92
65]	* Chlorobenzene	14.826	112	160	1.260	pg	99
66]	* Ethylbenzene	15.220	91	379	1.885	pg	96
67]	* m- & p-Xylenes	15.381	91	721	4.564	pg	98
68]	* Bromoform	15.423	173	81	6.711	pg	# 26
70]	* Styrene	15.727	104	215	2.001	pg	99
71]	* o-Xylene	15.822	91	333	2.034	pg	100
72]	* n-Nonane	16.067	57	206	3.593	pg	93
73]	* 1,1,2,2-Tetrachloroe...	15.804	83	103	1.883	pg	97
75]	* Cumene	16.363	105	214	0.970	pg	99
76]	* alpha-Pinene	16.700	93	144	1.448	pg	# 76
77]	* n-Propylbenzene	16.812	91	223	0.908	pg	99
78]	3-Ethyltoluene	16.938	105	175	0.868	pg	97
79]	* 4-Ethyltoluene	16.938	105	172	0.878	pg	96
80]	* 1,3,5-Trimethylbenzene	17.006	105	171	0.980	pg	98
84]	* 1,2,4-Trimethylbenzene	17.352	105	244	1.381	pg	94
86]	* 1,3-Dichlorobenzene	17.476	146	73	0.667	pg	# 18
87]	* 1,4-Dichlorobenzene	17.530	146	81	0.762	pg	# 18
89]	sec-Butylbenzene	17.584	105	170	0.682	pg	# 56
91]	p-Isopropyltoluene	17.719	119	214	1.014	pg	99
92]	* 1,2-Dichlorobenzene	17.821	146	74	0.655	pg	89
93]	* D-Limonene	17.837	68	134	4.347	pg	90
95]	* 1,2-Dibromo-3-chloro...	18.181	157	70	6.017	pg	# 81
97]	* 1,2,4-Trichlorobenzene	19.326	180	61	0.839	pg	98
98]	* Naphthalene	19.435	128	63	0.399	pg	# 68
100]	* Hexachlorobutadiene	19.788	225	156	2.310	pg	95

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

Data Path : I:\MS21\DATA\2023_03\10\
Data File : 03102310.D
Acq On : 10 Mar 2023 22:24
Operator : KM
Sample : AS00760_SFC00309,264,257,318,483 (24HR)
Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 13 07:02:46 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA T0-15
QLast Update : Wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data Path : I:\MS21\DATA\2023_03\01\
 Data File : 03012314.D
 Acq On : 2 Mar 2023 1:32
 Operator : KM
 Sample : AC02348
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 10 Sample Multiplier: 1

APL 3/2/23

Quant Time: Mar 02 04:50:26 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA TO-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.734	130	67687	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.901	114	205205	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	31941	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.545	65	100248	966.09	pg	0.00
Spiked Amount 1000.000			Recovery	=	96.61%	
57) Toluene-d8 (SS2)	12.697	98	205166	908.83	pg	0.00
Spiked Amount 1000.000			Recovery	=	90.88%	
74) Bromofluorobenzene (SS3)	16.228	174	77486	869.56	pg	0.00
Spiked Amount 1000.000			Recovery	=	86.96%	

Target Compounds						Qvalue
3] * Dichlorodifluoromethane	3.729	85	7721	67.202	pg	100
4] * Chloromethane	3.861	50	1702	32.251	pg	99
5] * 1,2-Dichloro-1,1,2,2...	3.946	85	342	4.809	pg	90
6] * Vinyl Chloride	4.042	62	62	0.986	pg	# 42
7] * 1,3-Butadiene	4.152	54	62	1.472	pg	# 5
8] * Bromomethane	4.372	94	110	2.728	pg	# 3
9] * Chloroethane	4.513	64	83	2.265	pg	# 42
10] * Ethanol	4.606	45	6460	267.691	pg	99
11] * Acetonitrile	4.778	41	1257	14.470	pg	99
12] * Acrolein	4.884	56	430	12.404	pg	96
13] * Acetone	5.008	58	19556	418.961	pg	91
14] * Trichlorofluoromethane	5.138	101	4696	32.023	pg	100
15] * 2-Propanol (Isopropa...	5.213	45	4659	112.088	pg	90
16] * Acrylonitrile	5.362	53	102	1.574	pg	91
18] tert-Butanol	5.764	59	381	6.116	pg	98
19] * Methylene Chloride	5.744	84	2924	41.176	pg	99
21] * Trichlorotrifluoroet...	5.992	151	1012	13.596	pg	100
22] * Carbon Disulfide	6.021	76	3172	13.184	pg	100
25] * Methyl tert-Butyl Ether	6.892	73	74	0.410	pg	# 59
26] * Vinyl Acetate	6.887	86	230	44.535	pg	# 1
27] * 2-Butanone (MEK)	7.174	72	3501	81.179	pg	92
29] DIPE	7.838	45	843	5.264	pg	# 48
30] * Ethyl Acetate	7.838	61	971	75.139	pg	92
31] * n-Hexane	7.825	57	217	2.312	pg	# 81
32] * Chloroform	7.870	83	368	2.993	pg	100
34] * Tetrahydrofuran	8.354	71	132	3.562	pg	96
36] * 1,2-Dichloroethane	8.666	62	220	2.417	pg	99
38] * 1,1,1-Trichloroethane	8.972	97	80	1.592	pg	# 18
39] * Benzene	9.489	78	1886	10.326	pg	97
42] * Carbon Tetrachloride	9.661	117	1056	45.439	pg	98
43] * Cyclohexane	9.823	84	82	1.157	pg	# 3
45] * 1,2-Dichloropropane	10.416	63	60	1.471	pg	# 23
46] * Bromodichloromethane	10.626	83	142	3.720	pg	93
47] * Trichloroethene	10.691	130	87	1.385	pg	91
48] * 1,4-Dioxane	10.757	88	353	7.236	pg	# 80
49] Isooctane	10.786	56	64	1.058	pg	# 1
50] * Methyl Methacrylate	10.960	69	295	12.039	pg	98
51] * n-Heptane	11.083	71	86	1.595	pg	# 39
53] * 4-Methyl-2-pentanone	11.798	58	317	8.619	pg	99
55] * 1,1,2-Trichloroethane	12.475	97	60	1.366	pg	# 19
58] * Toluene	12.810	91	10769	46.395	pg	98
59] * 2-Hexanone	13.178	58	141	3.162	pg	# 48
60] * Dibromochloromethane	13.254	129	177	8.342	pg	93
62] * n-Butyl Acetate	13.917	56	57	3.656	pg	# 30

Data Path : I:\MS21\DATA\2023_03\01\
 Data File : 03012314.D
 Acq On : 2 Mar 2023 1:32
 Operator : KM
 Sample : AC02348
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 02 04:50:26 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
63]	* n-Octane	14.000	85	55	1.075	pg	# 16
64]	* Tetrachloroethene	14.103	166	151	2.186	pg	99
65]	* Chlorobenzene	14.826	112	191	1.204	pg	94
66]	* Ethylbenzene	15.214	91	1124	4.476	pg	99
67]	* m- & p-Xylenes	15.381	91	3204	16.237	pg	98
68]	* Bromoform	15.423	173	132	8.755	pg	99
70]	* Styrene	15.721	104	518	3.860	pg	95
71]	* o-Xylene	15.822	91	863	4.220	pg	99
72]	* n-Nonane	16.067	57	83	1.159	pg	# 28
73]	* 1,1,2,2-Tetrachloroe...	15.804	83	97	1.419	pg	100
75]	* Cumene	16.363	105	211	0.766	pg	98
76]	* alpha-Pinene	16.700	93	288	2.319	pg	# 83
77]	* n-Propylbenzene	16.812	91	494	1.609	pg	99
78]	3-Ethyltoluene	16.938	105	605	2.403	pg	95
79]	* 4-Ethyltoluene	16.938	105	607	2.481	pg	93
80]	* 1,3,5-Trimethylbenzene	17.006	105	274	1.257	pg	96
83]	tert-Butylbenzene	17.373	134	114	2.152	pg	# 32
84]	* 1,2,4-Trimethylbenzene	17.351	105	1138	5.155	pg	90
86]	* 1,3-Dichlorobenzene	17.470	146	96	0.702	pg	99
87]	* 1,4-Dichlorobenzene	17.530	146	134	1.010	pg	93
89]	sec-Butylbenzene	17.583	105	160	0.514	pg	# 56
91]	p-Isopropyltoluene	17.718	119	420	1.594	pg	98
92]	* 1,2-Dichlorobenzene	17.821	146	84	0.595	pg	93
93]	* D-Limonene	17.837	68	199	5.169	pg	88
94]	n-Butylbenzene	18.063	134	85	1.350	pg	69
97]	* 1,2,4-Trichlorobenzene	19.321	180	85	0.935	pg	89
98]	* Naphthalene	19.434	128	283	1.436	pg	# 68
100]	* Hexachlorobutadiene	19.792	225	145	1.719	pg	97

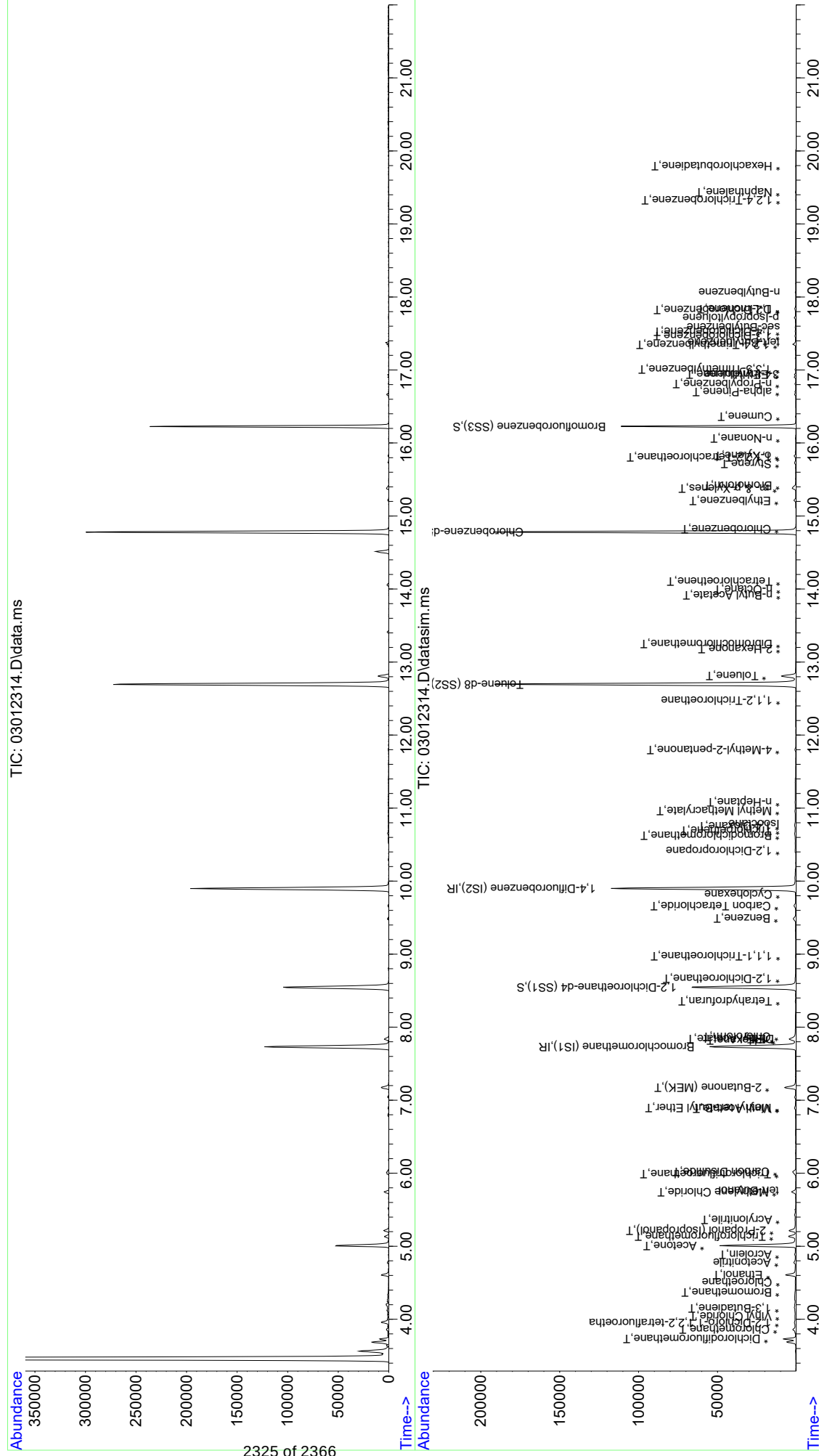
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data Path      : I:\MS21\DATA\2023_03\01\
Data File     : 03012314.D
Acq On        : 2 Mar 2023   1:32
Operator      : KM
Sample        : AC02348
Misc          : LL + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial      : 10 Sample Multiplier: 1

```

Quant Time: Mar 02 04:50:26 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA T0-15
Quant Update : Wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data Path : I:\MS21\DATA\2023_03\10\
 Data File : 03102305.D
 Acq On : 10 Mar 2023 18:39
 Operator : KM
 Sample : AS01152_13x SAMPLING CANES
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

KM 3/13/23

Quant Time: Mar 13 06:43:48 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA TO-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.728	130	56723	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.896	114	208465	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	29235	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.545	65	89041	1023.94	pg	0.00
Spiked Amount 1000.000			Recovery	=	102.39%	
57) Toluene-d8 (SS2)	12.697	98	175336	848.58	pg	0.00
Spiked Amount 1000.000			Recovery	=	84.86%	
74) Bromofluorobenzene (SS3)	16.228	174	77240	947.03	pg	0.00
Spiked Amount 1000.000			Recovery	=	94.70%	
Target Compounds						Qvalue
3] * Dichlorodifluoromethane	3.720	85	1613	16.75	pg	99
4] * Chloromethane	3.851	50	479	10.83	pg	100
5] * 1,2-Dichloro-1,1,2,2...	3.941	85	55	0.92	pg	# 42
7] * 1,3-Butadiene	4.137	54	25	0.71	pg	# 5
8] * Bromomethane	4.362	94	64	1.89	pg	97
9] * Chloroethane	4.502	64	165	5.37	pg	# 42
10] * Ethanol	4.596	45	38756	1916.40	pg	98
11] * Acetonitrile	4.768	41	465	6.39	pg	97
12] * Acrolein	4.878	56	530	18.24	pg	96
13] * Acetone	5.002	58	11771	300.92	pg	87
14] * Trichlorofluoromethane	5.126	101	1011	8.23	pg	100
15] * 2-Propanol (Isopropa...	5.207	45	3623	104.01	pg	89
16] * Acrylonitrile	5.350	53	75	1.38	pg	88
18] tert-Butanol	5.754	59	966	18.50	pg	# 49
19] * Methylene Chloride	5.739	84	5648	94.91	pg	100
21] * Trichlorotrifluoroet...	5.987	151	209	3.35	pg	97
22] * Carbon Disulfide	6.012	76	3881	19.25	pg	99
26] * Vinyl Acetate	6.888	86	306	70.70	pg	# 1
27] * 2-Butanone (MEK)	7.174	72	1312	36.30	pg	89
29] DIPE	7.831	45	563	4.20	pg	# 36
30] * Ethyl Acetate	7.831	61	683	63.07	pg	89
31] * n-Hexane	7.818	57	274	3.48	pg	96
32] * Chloroform	7.864	83	153	1.48	pg	100
36] * 1,2-Dichloroethane	8.671	62	82	1.08	pg	# 42
39] * Benzene	9.484	78	1223	6.59	pg	98
42] * Carbon Tetrachloride	9.662	117	213	9.02	pg	# 58
43] * Cyclohexane	9.813	84	159	2.21	pg	95
46] * Bromodichloromethane	10.612	83	61	1.57	pg	# 18
47] * Trichloroethene	10.691	130	64	1.00	pg	93
48] * 1,4-Dioxane	10.757	88	95	1.92	pg	95
49] Isooctane	10.771	56	193	3.14	pg	72
51] * n-Heptane	11.083	71	148	2.70	pg	# 39
53] * 4-Methyl-2-pentanone	11.798	58	298	7.98	pg	98
58] * Toluene	12.810	91	2377	11.19	pg	97
59] * 2-Hexanone	13.173	58	351	8.60	pg	94
60] * Dibromochloromethane	13.255	129	74	3.81	pg	99
62] * n-Butyl Acetate	13.917	56	71	4.98	pg	# 30
63] * n-Octane	14.000	85	83	1.77	pg	94
64] * Tetrachloroethene	14.109	166	57	0.90	pg	# 11
65] * Chlorobenzene	14.826	112	119	0.82	pg	# 42
66] * Ethylbenzene	15.214	91	436	1.90	pg	98
67] * m- & p-Xylenes	15.381	91	1024	5.67	pg	98
68] * Bromoform	15.423	173	72	5.22	pg	# 26
70] * Styrene	15.721	104	386	3.14	pg	98

Data Path : I:\MS21\DATA\2023_03\10\
 Data File : 03102305.D
 Acq On : 10 Mar 2023 18:39
 Operator : KM
 Sample : AS01152_13x SAMPLING CANES
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

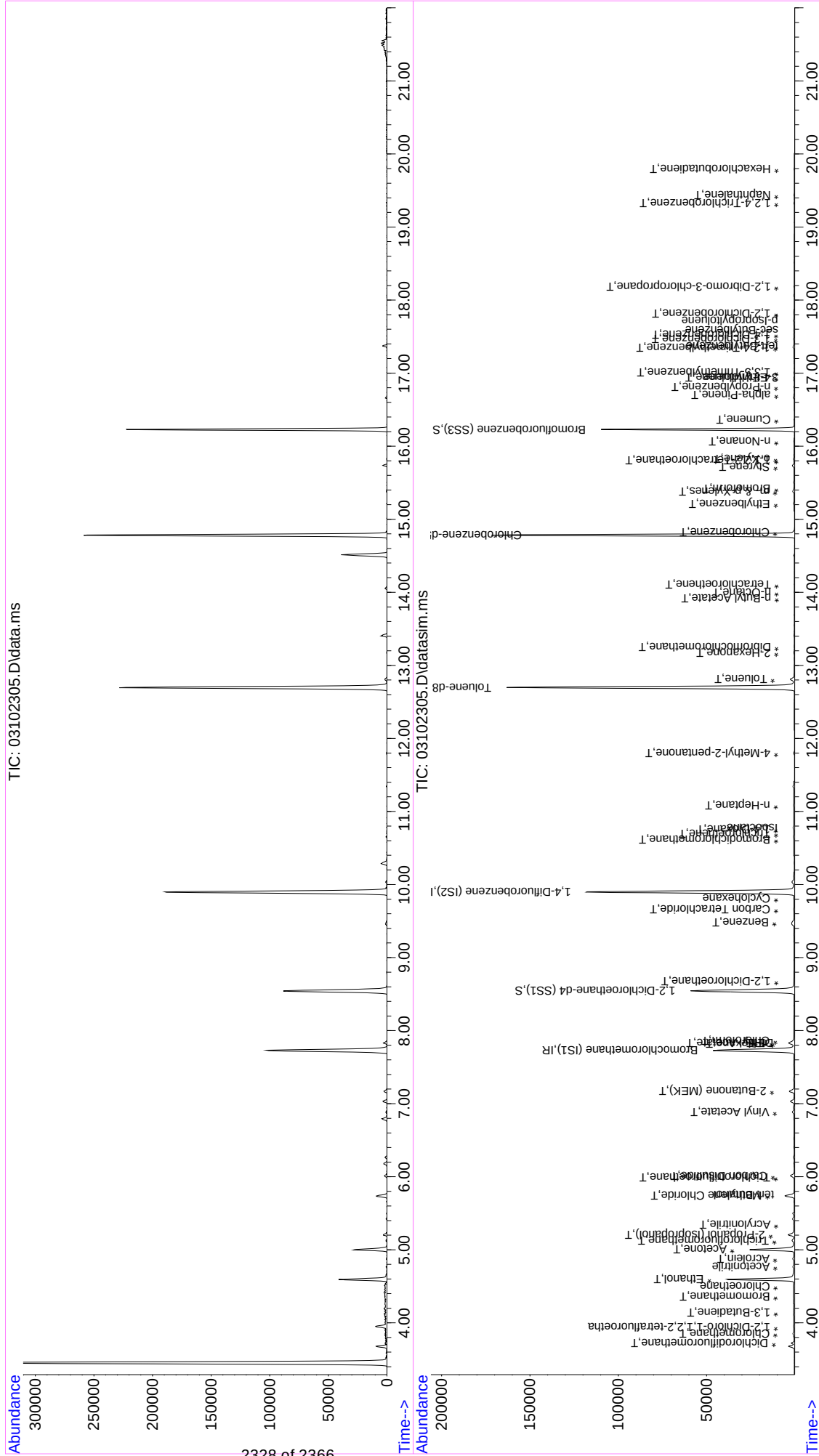
Quant Time: Mar 13 06:43:48 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71]	* o-Xylene	15.822	91	418	2.23	pg	99
72]	* n-Nonane	16.067	57	76	1.16	pg	# 28
73]	* 1,1,2,2-Tetrachloroe...	15.804	83	73	1.17	pg	# 18
75]	* Cumene	16.363	105	129	0.51	pg	# 48
76]	* alpha-Pinene	16.700	93	112	0.99	pg	# 65
77]	* n-Propylbenzene	16.812	91	224	0.80	pg	# 84
78]	3-Ethyltoluene	16.938	105	177	0.77	pg	97
79]	* 4-Ethyltoluene	16.938	105	177	0.79	pg	98
80]	* 1,3,5-Trimethylbenzene	17.006	105	154	0.77	pg	99
83]	tert-Butylbenzene	17.373	134	123	2.54	pg	# 1
84]	* 1,2,4-Trimethylbenzene	17.352	105	358	1.77	pg	89
86]	* 1,3-Dichlorobenzene	17.470	146	80	0.64	pg	94
87]	* 1,4-Dichlorobenzene	17.530	146	100	0.82	pg	96
89]	sec-Butylbenzene	17.589	105	106	0.37	pg	# 56
91]	p-Isopropyltoluene	17.719	119	211	0.87	pg	95
92]	* 1,2-Dichlorobenzene	17.816	146	86	0.67	pg	95
95]	* 1,2-Dibromo-3-chloro...	18.187	157	68	5.11	pg	# 74
97]	* 1,2,4-Trichlorobenzene	19.326	180	134	1.61	pg	97
98]	* Naphthalene	19.435	128	202	1.12	pg	# 68
100]	* Hexachlorobutadiene	19.793	225	138	1.79	pg	# 41

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

Data Path : I:\MS21\DATA\2023_03\10\
Data File : 03102305.D
Acq On : 10 Mar 2023 18:39
Operator : KM
Sample : AS01152_13x SAMPLING CANES
Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 13 06:43:48 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA T0-15
QLast Update : Wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data Path : I:\MS21\DATA\2023_03\10\
 Data File : 03102328.D
 Acq On : 11 Mar 2023 11:55
 Operator : KM
 Sample : AC02172
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 210 Sample Multiplier: 1

APL 3/13/23

Quant Time: Mar 13 08:33:10 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.734	130	49424	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.901	114	165873	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	25044	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.545	65	77649	1024.81	pg	0.00
Spiked Amount 1000.000			Recovery	=	102.48%	
57) Toluene-d8 (SS2)	12.697	98	155669	879.48	pg	0.00
Spiked Amount 1000.000			Recovery	=	87.95%	
74) Bromofluorobenzene (SS3)	16.228	174	65373	935.67	pg	0.00
Spiked Amount 1000.000			Recovery	=	93.57%	

Target Compounds						Qvalue
3] * Dichlorodifluoromethane	3.725	85	8696	103.656	pg	100
4] * Chloromethane	3.851	50	1546	40.120	pg	99
5] * 1,2-Dichloro-1,1,2,2...	3.941	85	299	5.758	pg	# 86
7] * 1,3-Butadiene	4.147	54	52	1.690	pg	# 5
8] * Bromomethane	4.362	94	119	4.041	pg	95
10] * Ethanol	4.596	45	8051	456.898	pg	98
11] * Acetonitrile	4.773	41	1306	20.590	pg	98
12] * Acrolein	4.878	56	367	14.499	pg	91
13] * Acetone	5.002	58	9934	291.464	pg	73
14] * Trichlorofluoromethane	5.132	101	5398	50.412	pg	99
15] * 2-Propanol (Isopropa...	5.207	45	4181	137.757	pg	94
16] * Acrylonitrile	5.356	53	69	1.458	pg	86
18] tert-Butanol	5.759	59	420	9.233	pg	# 45
19] * Methylene Chloride	5.739	84	3747	72.263	pg	99
21] * Trichlorotrifluoroet...	5.992	151	1109	20.405	pg	97
22] * Carbon Disulfide	6.016	76	2205	12.551	pg	98
26] * Vinyl Acetate	6.887	86	265	70.272	pg	# 1
27] * 2-Butanone (MEK)	7.174	72	750	23.817	pg	81
29] DIPE	7.831	45	1059	9.056	pg	# 49
30] * Ethyl Acetate	7.831	61	1268	134.379	pg	95
31] * n-Hexane	7.818	57	455	6.638	pg	100
32] * Chloroform	7.870	83	354	3.943	pg	99
36] * 1,2-Dichloroethane	8.661	62	234	3.521	pg	91
39] * Benzene	9.489	78	2125	14.393	pg	99
42] * Carbon Tetrachloride	9.661	117	1197	63.720	pg	100
43] * Cyclohexane	9.818	84	247	4.311	pg	86
46] * Bromodichloromethane	10.619	83	85	2.755	pg	# 81
47] * Trichloroethene	10.698	130	62	1.221	pg	# 1
49] Isooctane	10.778	56	564	11.532	pg	# 60
50] * Methyl Methacrylate	10.960	69	50	2.524	pg	# 32
51] * n-Heptane	11.083	71	244	5.600	pg	99
53] * 4-Methyl-2-pentanone	11.804	58	255	8.577	pg	98
58] * Toluene	12.810	91	8455	46.457	pg	99
59] * 2-Hexanone	13.189	58	94	2.689	pg	# 48
60] * Dibromochloromethane	13.265	129	145	8.716	pg	100
62] * n-Butyl Acetate	13.917	56	84	6.872	pg	# 30
63] * n-Octane	14.005	85	84	2.094	pg	# 82
64] * Tetrachloroethene	14.109	166	214	3.952	pg	99
65] * Chlorobenzene	14.826	112	117	0.941	pg	# 42
66] * Ethylbenzene	15.220	91	1159	5.887	pg	99
67] * m- & p-Xylenes	15.381	91	3117	20.146	pg	100
68] * Bromoform	15.423	173	103	8.713	pg	99
70] * Styrene	15.721	104	562	5.341	pg	98
71] * o-Xylene	15.822	91	1186	7.396	pg	99

Data Path : I:\MS21\DATA\2023_03\10\
 Data File : 03102328.D
 Acq On : 11 Mar 2023 11:55
 Operator : KM
 Sample : AC02172
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 210 Sample Multiplier: 1

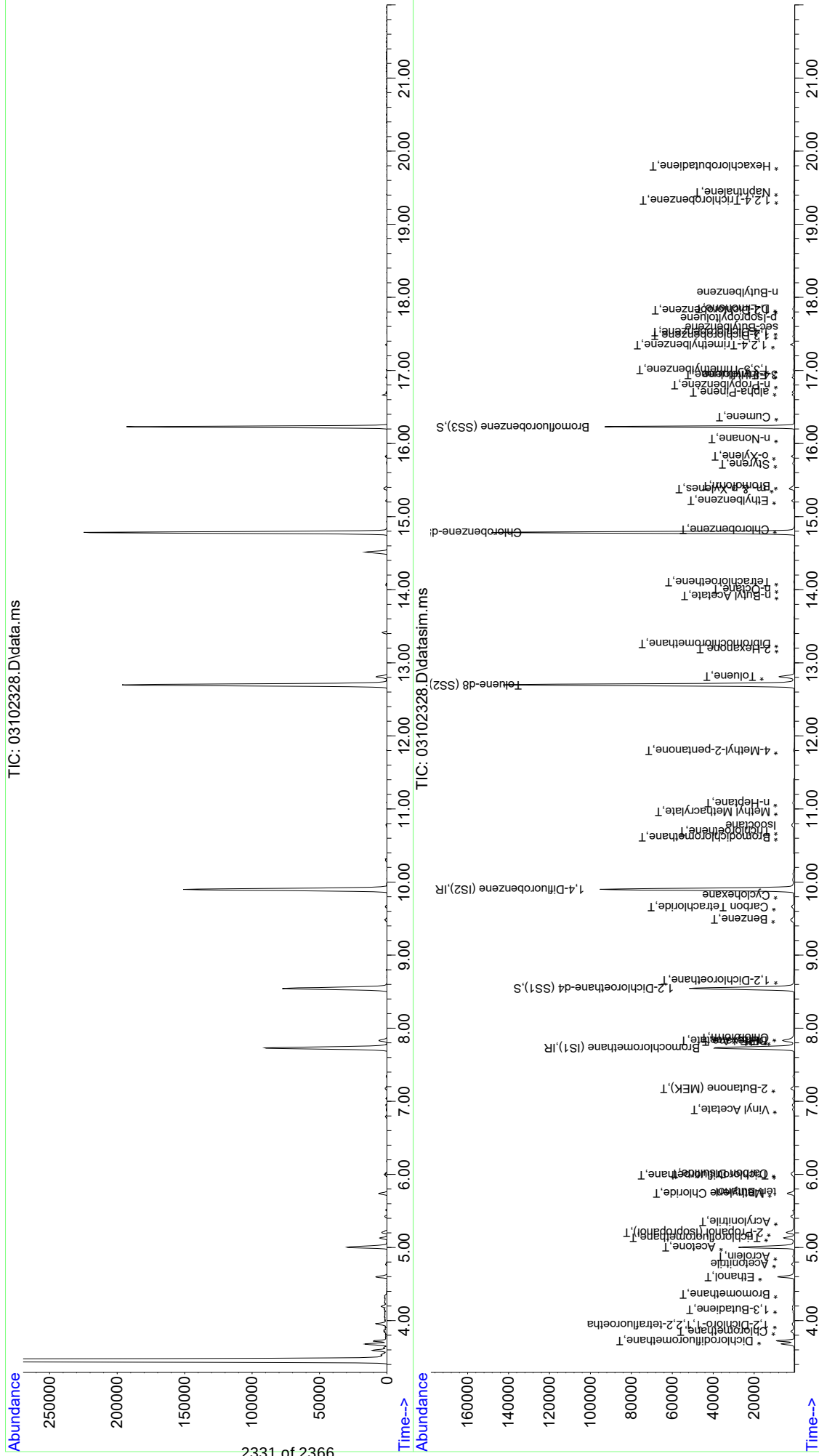
Quant Time: Mar 13 08:33:10 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72]	* n-Nonane	16.067	57	118	2.102	pg	# 84
75]	* Cumene	16.368	105	137	0.634	pg	# 48
76]	* alpha-Pinene	16.705	93	588	6.039	pg	# 80
77]	* n-Propylbenzene	16.807	91	364	1.513	pg	92
78]	3-Ethyltoluene	16.938	105	407	2.062	pg	99
79]	* 4-Ethyltoluene	16.938	105	407	2.121	pg	99
80]	* 1,3,5-Trimethylbenzene	17.006	105	326	1.907	pg	100
84]	* 1,2,4-Trimethylbenzene	17.351	105	1175	6.788	pg	87
86]	* 1,3-Dichlorobenzene	17.476	146	132	1.231	pg	89
87]	* 1,4-Dichlorobenzene	17.529	146	247	2.374	pg	98
89]	sec-Butylbenzene	17.583	105	72	0.295	pg	# 56
91]	p-Isopropyltoluene	17.718	119	390	1.887	pg	99
92]	* 1,2-Dichlorobenzene	17.821	146	85	0.768	pg	97
93]	* D-Limonene	17.843	68	222	7.354	pg	# 72
94]	n-Butylbenzene	18.063	134	91	1.843	pg	# 29
97]	* 1,2,4-Trichlorobenzene	19.326	180	107	1.502	pg	99
98]	* Naphthalene	19.439	128	332	2.148	pg	# 68
100]	* Hexachlorobutadiene	19.792	225	112	1.693	pg	# 41

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

Data Path : I:\MS21\DATA\2023_03\10\
Data File : 03102328.D
Acq On : 11 Mar 2023 11:55
Operator : KM
Sample : AC02172
Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial : 210 Sample Multiplier: 1

Quant Time: Mar 13 08:33:10 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA T0-15
QLast Update : Wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data Path : I:\MS21\DATA\2023_03\02\
 Data File : 03022314.D
 Acq On : 3 Mar 2023 1:52
 Operator : KM
 Sample : SC01810
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 10 Sample Multiplier: 1

APL 3/3/23

Quant Time: Mar 03 05:04:15 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.734	130	68212	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.901	114	210828	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	35574	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.545	65	98982	946.54	pg	0.00
Spiked Amount 1000.000			Recovery	=	94.65%	
57) Toluene-d8 (SS2)	12.697	98	207243	824.28	pg	0.00
Spiked Amount 1000.000			Recovery	=	82.43%	
74) Bromofluorobenzene (SS3)	16.228	174	87077	877.40	pg	0.00
Spiked Amount 1000.000			Recovery	=	87.74%	
Target Compounds						Qvalue
2] * Propene	3.669	42	439	9.940	pg	# 13
3] * Dichlorodifluoromethane	3.729	85	605	5.225	pg	# 100
4] * Chloromethane	3.861	50	454	8.537	pg	# 97
5] * 1,2-Dichloro-1,1,2,2...	3.941	85	84	1.172	pg	# 42
6] * Vinyl Chloride	4.042	62	83	1.310	pg	# 42
7] * 1,3-Butadiene	4.157	54	117	2.756	pg	# 1
8] * Bromomethane	4.372	94	110	2.707	pg	# 46
9] * Chloroethane	4.513	64	109	2.951	pg	# 42
10] * Ethanol	4.601	45	5212	214.314	pg	# 98
11] * Acetonitrile	4.773	41	4605	52.604	pg	# 99
12] * Acrolein	4.884	56	4473	128.041	pg	# 99
13] * Acetone	5.008	58	17135	364.269	pg	# 77
14] * Trichlorofluoromethane	5.132	101	428	2.896	pg	# 100
15] * 2-Propanol (Isopropa...	5.207	45	3144	75.058	pg	# 80
16] * Acrylonitrile	5.356	53	186	2.848	pg	# 87
18] tert-Butanol	5.754	59	1778	28.320	pg	# 88
19] * Methylene Chloride	5.739	84	500	6.987	pg	# 98
21] * Trichlorotrifluoroet...	5.992	151	129	1.720	pg	# 97
22] * Carbon Disulfide	6.021	76	6288	25.933	pg	# 98
23] * trans-1,2-Dichloroet...	6.581	96	58	0.815	pg	# 18
24] * 1,1-Dichloroethane	6.772	63	91	0.870	pg	# 42
25] * Methyl tert-Butyl Ether	6.882	73	84	0.462	pg	# 3
26] * Vinyl Acetate	6.887	86	2215	425.588	pg	# 1
27] * 2-Butanone (MEK)	7.169	72	2080	47.859	pg	# 90
28] * cis-1,2-Dichloroethene	7.579	96	52	0.688	pg	# 18
29] DIPE	7.838	45	397	2.460	pg	# 67
30] * Ethyl Acetate	7.831	61	393	30.177	pg	# 98
31] * n-Hexane	7.818	57	86	0.909	pg	# 53
32] * Chloroform	7.870	83	180	1.453	pg	# 95
34] * Tetrahydrofuran	8.344	71	396	10.602	pg	# 99
36] * 1,2-Dichloroethane	8.661	62	100	1.090	pg	# 1
38] * 1,1,1-Trichloroethane	8.972	97	101	1.957	pg	# 18
39] * Benzene	9.490	78	1125	5.995	pg	# 99
42] * Carbon Tetrachloride	9.662	117	131	5.487	pg	# 98
43] * Cyclohexane	9.807	84	83	1.140	pg	# 94
46] * Bromodichloromethane	10.626	83	120	3.060	pg	# 87
47] * Trichloroethene	10.691	130	99	1.534	pg	# 99
48] * 1,4-Dioxane	10.742	88	5202	103.787	pg	# 86
49] Isooctane	10.778	56	127	2.043	pg	# 1
50] * Methyl Methacrylate	10.945	69	112	4.449	pg	# 5
51] * n-Heptane	11.083	71	84	1.517	pg	# 39
53] * 4-Methyl-2-pentanone	11.793	58	474	12.544	pg	# 97
55] * 1,1,2-Trichloroethane	12.469	97	68	1.507	pg	# 19
58] * Toluene	12.810	91	937	3.625	pg	# 96

Data Path : I:\MS21\DATA\2023_03\02\
 Data File : 03022314.D
 Acq On : 3 Mar 2023 1:52
 Operator : KM
 Sample : SC01810
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 10 Sample Multiplier: 1

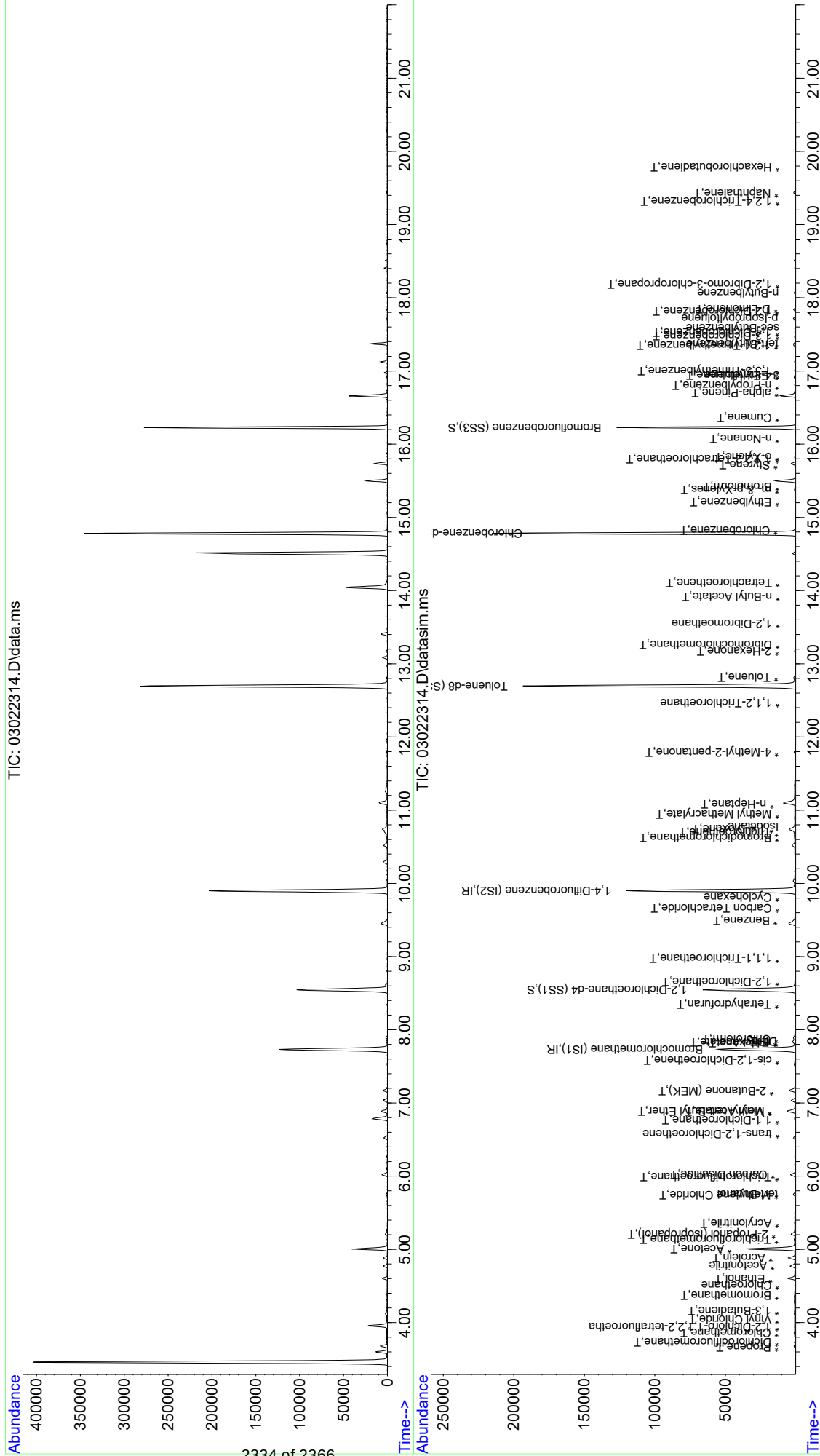
Quant Time: Mar 03 05:04:15 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
59]	* 2-Hexanone	13.168	58	829	16.693	pg	99
60]	* Dibromochloromethane	13.260	129	124	5.247	pg	98
61]	* 1,2-Dibromoethane	13.547	107	56	1.701	pg	95
62]	* n-Butyl Acetate	13.912	56	88	5.068	pg	# 30
64]	* Tetrachloroethene	14.104	166	114	1.482	pg	92
65]	* Chlorobenzene	14.821	112	199	1.127	pg	98
66]	* Ethylbenzene	15.214	91	288	1.030	pg	95
67]	* m- & p-Xylenes	15.381	91	516	2.348	pg	95
68]	* Bromoform	15.423	173	108	6.432	pg	95
70]	* Styrene	15.721	104	589	3.940	pg	99
71]	* o-Xylene	15.822	91	266	1.168	pg	99
72]	* n-Nonane	16.073	57	99	1.241	pg	# 79
73]	* 1,1,2,2-Tetrachloroe...	15.798	83	139	1.826	pg	99
75]	* Cumene	16.363	105	241	0.785	pg	95
76]	* alpha-Pinene	16.700	93	296	2.140	pg	# 54
77]	* n-Propylbenzene	16.807	91	314	0.919	pg	92
78]	3-Ethyltoluene	16.938	105	194	0.692	pg	96
79]	* 4-Ethyltoluene	16.938	105	185	0.679	pg	98
80]	* 1,3,5-Trimethylbenzene	17.001	105	209	0.861	pg	99
83]	tert-Butylbenzene	17.373	134	438	7.424	pg	# 1
84]	* 1,2,4-Trimethylbenzene	17.351	105	641	2.607	pg	91
86]	* 1,3-Dichlorobenzene	17.476	146	101	0.663	pg	99
87]	* 1,4-Dichlorobenzene	17.530	146	102	0.690	pg	84
89]	sec-Butylbenzene	17.584	105	186	0.536	pg	# 56
91]	p-Isopropyltoluene	17.718	119	721	2.456	pg	98
92]	* 1,2-Dichlorobenzene	17.816	146	97	0.617	pg	100
93]	* D-Limonene	17.843	68	485	11.310	pg	99
94]	n-Butylbenzene	18.063	134	88	1.255	pg	# 1
95]	* 1,2-Dibromo-3-chloro...	18.187	157	59	3.645	pg	# 66
97]	* 1,2,4-Trichlorobenzene	19.321	180	108	1.067	pg	91
98]	* Naphthalene	19.430	128	1308	5.959	pg	98
100]	* Hexachlorobutadiene	19.788	225	175	1.863	pg	95

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

Data Path : I:\MS21\DATA\2023_03\02\
Data File : 03022314.D
Acq On : 3 Mar 2023 1:52
Operator : KM
Sample : SC01810
Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 03 05:04:15 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA T0-15
QLast Update : Wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data Path : I:\MS21\DATA\2023_03\07\
 Data File : 03072321.D
 Acq On : 8 Mar 2023 00:12
 Operator : KM
 Sample : SC01086
 Misc : LL (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 12 Sample Multiplier: 1

AL 3/8/23

Quant Time: Mar 08 07:07:20 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.728	130	52907	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.896	114	192033	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.782	54	28775	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.540	65	84242	1038.63	pg	0.00
Spiked Amount 1000.000			Recovery	=	103.86%	
57) Toluene-d8 (SS2)	12.697	98	173507	853.15	pg	0.00
Spiked Amount 1000.000			Recovery	=	85.31%	
74) Bromofluorobenzene (SS3)	16.228	174	79643	992.11	pg	0.00
Spiked Amount 1000.000			Recovery	=	99.21%	

Target	Compounds					Qvalue
3]	* Dichlorodifluoromethane	3.720	85	1491	16.603 pg	100
4]	* Chloromethane	3.851	50	643	15.588 pg	94
5]	* 1,2-Dichloro-1,1,2,2...	3.936	85	54	0.971 pg	# 42
7]	* 1,3-Butadiene	4.147	54	19	0.577 pg	# 5
8]	* Bromomethane	4.367	94	60	1.904 pg	94
9]	* Chloroethane	4.508	64	89	3.107 pg	# 57
10]	* Ethanol	4.591	45	24374	1292.173 pg	99
11]	* Acetonitrile	4.763	41	2556	37.644 pg	100
12]	* Acrolein	4.871	56	1040	38.382 pg	96
13]	* Acetone	4.996	58	26530	727.148 pg	98
14]	* Trichlorofluoromethane	5.126	101	891	7.773 pg	99
15]	* 2-Propanol (Isopropa...	5.194	45	16670	513.092 pg	96
16]	* Acrylonitrile	5.349	53	77	1.520 pg	96
18]	tert-Butanol	5.735	59	4096	84.113 pg	# 67
19]	* Methylene Chloride	5.735	84	8839	159.242 pg	100
21]	* Trichlorotrifluoroet...	5.987	151	201	3.455 pg	92
22]	* Carbon Disulfide	6.012	76	2660	14.144 pg	99
24]	* 1,1-Dichloroethane	6.772	63	122	1.504 pg	# 42
26]	* Vinyl Acetate	6.883	86	3522	872.475 pg	# 1
27]	* 2-Butanone (MEK)	7.159	72	6023	178.673 pg	85
30]	* Ethyl Acetate	7.818	61	6346	628.255 pg	94
31]	* n-Hexane	7.818	57	124	1.690 pg	# 54
32]	* Chloroform	7.857	83	105	1.092 pg	87
34]	* Tetrahydrofuran	8.339	71	236	8.147 pg	92
36]	* 1,2-Dichloroethane	8.661	62	78	1.096 pg	# 1
39]	* Benzene	9.485	78	1350	7.898 pg	99
42]	* Carbon Tetrachloride	9.657	117	185	8.507 pg	92
46]	* Bromodichloromethane	10.619	83	55	1.540 pg	# 18
48]	* 1,4-Dioxane	10.742	88	306	6.703 pg	83
49]	Isooctane	10.779	56	97	1.713 pg	# 46
50]	* Methyl Methacrylate	10.953	69	90	3.925 pg	# 81
51]	* n-Heptane	11.076	71	90	1.784 pg	# 39
53]	* 4-Methyl-2-pentanone	11.787	58	854	24.813 pg	100
58]	* Toluene	12.811	91	3866	18.488 pg	98
59]	* 2-Hexanone	13.157	58	2228	55.463 pg	97
60]	* Dibromochloromethane	13.255	129	57	2.982 pg	# 11
62]	* n-Butyl Acetate	13.897	56	352	25.063 pg	97
64]	* Tetrachloroethene	14.109	166	104	1.671 pg	96
65]	* Chlorobenzene	14.827	112	109	0.763 pg	# 42
66]	* Ethylbenzene	15.214	91	625	2.763 pg	97
67]	* m- & p-Xylenes	15.381	91	1712	9.630 pg	98
68]	* Bromoform	15.417	173	78	5.743 pg	# 26
70]	* Styrene	15.721	104	730	6.038 pg	100
71]	* o-Xylene	15.822	91	863	4.684 pg	95

Data Path : I:\MS21\DATA\2023_03\07\
 Data File : 03072321.D
 Acq On : 8 Mar 2023 00:12
 Operator : KM
 Sample : SC01086
 Misc : LL (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 12 Sample Multiplier: 1

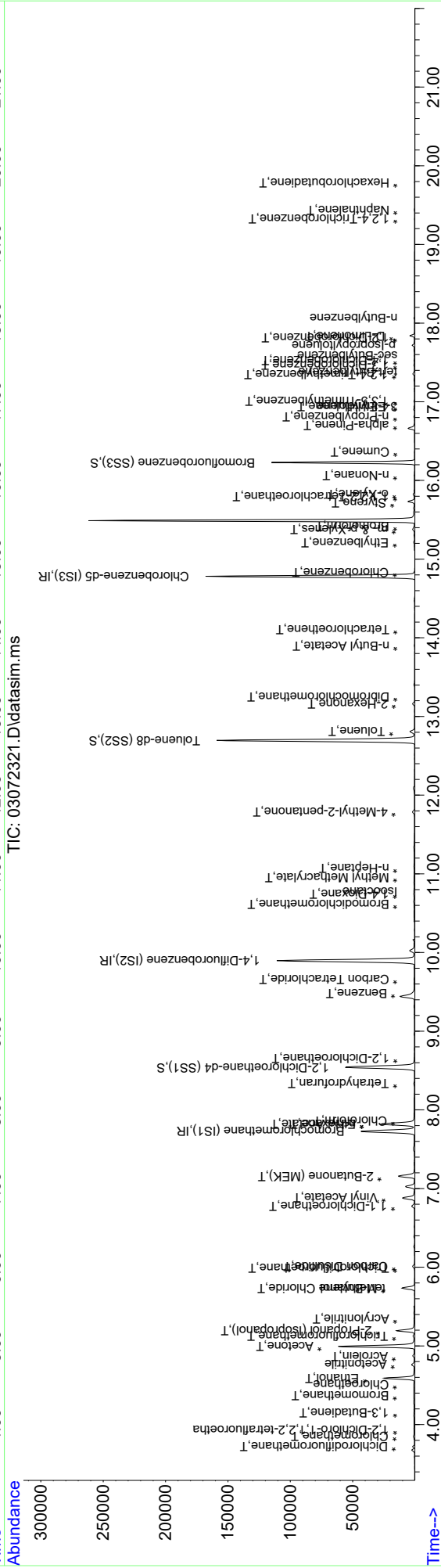
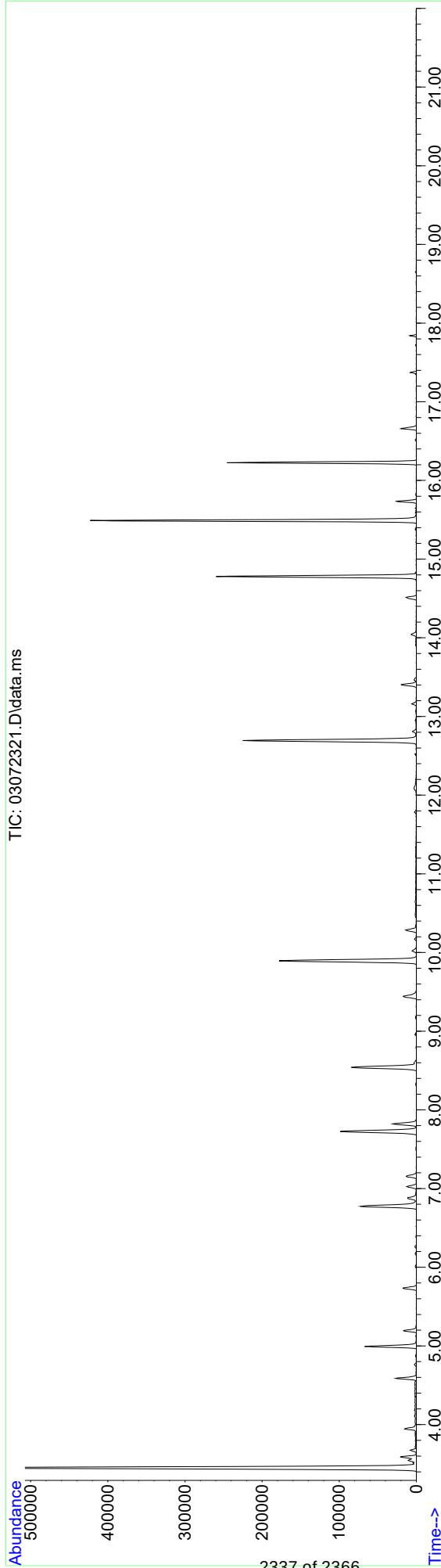
Quant Time: Mar 08 07:07:20 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72]	* n-Nonane	16.061	57	89	1.380	pg	# 28
73]	* 1,1,2,2-Tetrachloroe...	15.799	83	64	1.040	pg	# 18
75]	* Cumene	16.363	105	115	0.463	pg	# 48
76]	* alpha-Pinene	16.700	93	116	1.037	pg	# 55
77]	* n-Propylbenzene	16.812	91	357	1.291	pg	# 86
78]	3-Ethyltoluene	16.938	105	296	1.305	pg	97
79]	* 4-Ethyltoluene	16.938	105	296	1.343	pg	96
80]	* 1,3,5-Trimethylbenzene	17.006	105	241	1.227	pg	95
83]	tert-Butylbenzene	17.373	134	199	4.170	pg	# 1
84]	* 1,2,4-Trimethylbenzene	17.352	105	865	4.349	pg	87
86]	* 1,3-Dichlorobenzene	17.470	146	87	0.706	pg	93
87]	* 1,4-Dichlorobenzene	17.530	146	146	1.221	pg	95
89]	sec-Butylbenzene	17.584	105	78	0.278	pg	# 56
91]	p-Isopropyltoluene	17.719	119	1025	4.317	pg	97
92]	* 1,2-Dichlorobenzene	17.816	146	62	0.487	pg	# 18
93]	* D-Limonene	17.837	68	1507	43.447	pg	91
94]	n-Butylbenzene	18.063	134	79	1.393	pg	# 28
97]	* 1,2,4-Trichlorobenzene	19.326	180	104	1.270	pg	92
98]	* Naphthalene	19.435	128	312	1.757	pg	# 68
100]	* Hexachlorobutadiene	19.788	225	130	1.710	pg	# 41

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

Data Path : I:\MS21\DATA\2023_03\07\
Data File : 03072321.D
Acq On : 8 Mar 2023 00:12
Operator : KM
Sample : SC01086
Misc : LL (Sig #1); S35-02272301 (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 08 07:07:20 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA T0-15
QLast Update : wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data File : I:\MS09\DATA\2023_03\09\03092330.D
 Acq On : 10 Mar 2023 10:08
 Sample : AC02372
 Misc : S35-02212305

Vial: 15
 Operator: SC
 Inst : MS09

Quant Time: Mar 10 10:32:22 2023

Quant Method : I:\MS09\METHODS\R9022723.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Tue Feb 28 08:30:18 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

 3/10/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.20	130	172588	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	9.26	114	778606	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.80	54	175013	12.500	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.96	65	375935	12.866	ng	-0.04
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.96%
57) Toluene-d8 (SS2)	12.39	98	913902	13.743	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	109.92%
73) Bromofluorobenzene (SS3)	16.79	174	285562	10.531	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	84.24%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.30	42	1912	0.083	ng	# 77
10) Ethanol	4.30	45	4132	0.252	ng	91
13) Acetone	4.64	58	3821	0.308	ng	92
15) 2-Propanol (Isopropanol)	4.86	45	3225	0.067	ng	76

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

Data File : I:\MS09\DATA\2023_03\09\03092330.D
Acq On : 10 Mar 2023 10:08
Sample : AC02372
Misc : S35-02212305

Vial: 15
Operator: SC
Inst : MS09

Quant Time: Mar 10 10:32:22 2023

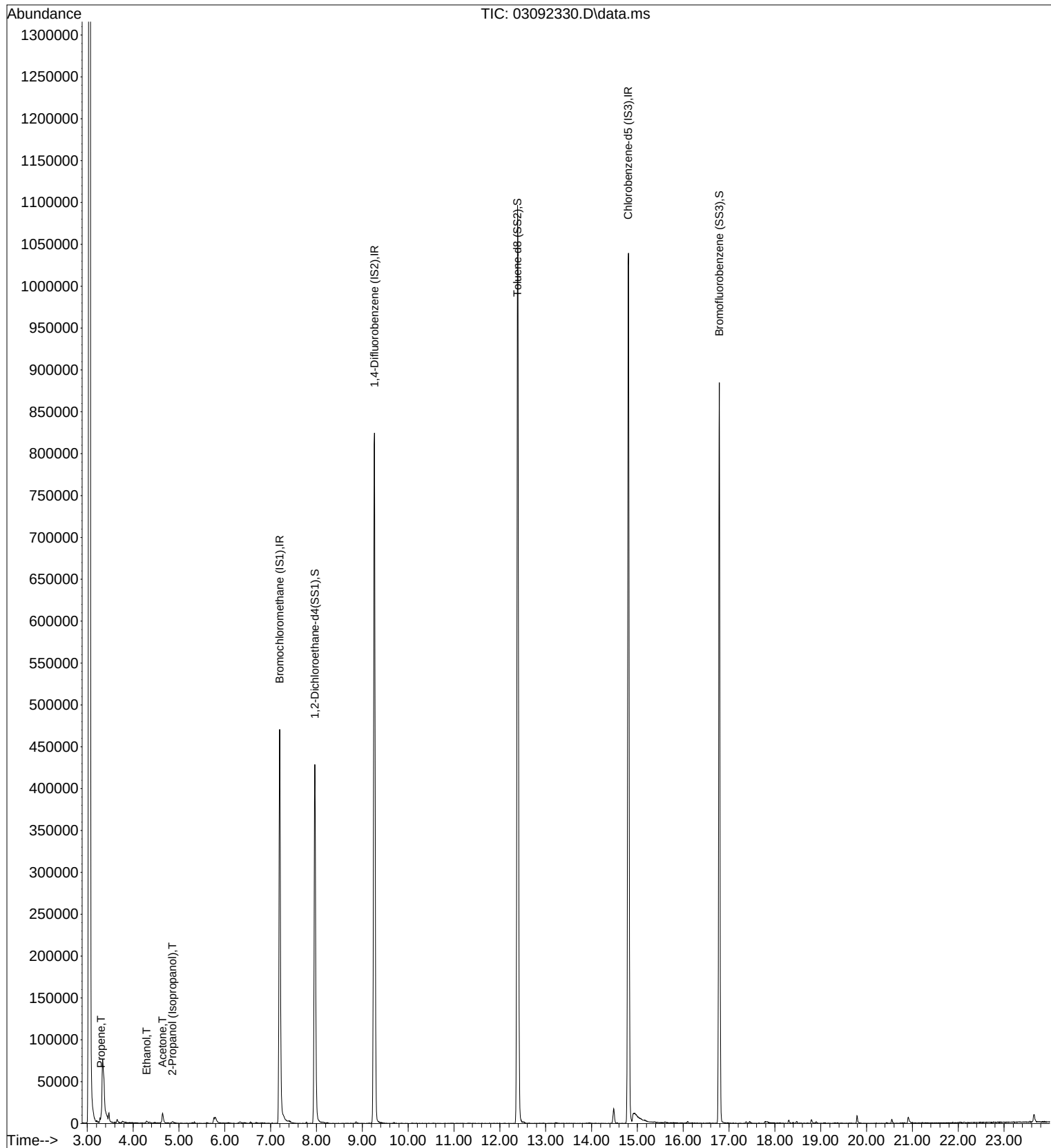
Quant Method : I:\MS09\METHODS\R9022723.M

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

QLast Update : Tue Feb 28 08:30:18 2023

Response via : Initial Calibration

DataAcq Meth:T015.M



Data Path : I:\MS21\DATA\2023_03\03\
 Data File : 03032305.D
 Acq On : 3 Mar 2023 18:51
 Operator : KM
 Sample : 030323_AC02261_30687
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

APL 3/6/23

Quant Time: Mar 06 06:50:58 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.728	130	69613	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.901	114	215206	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	32585	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.545	65	100232	939.21	pg	0.00
Spiked Amount 1000.000			Recovery	=	93.92%	
57) Toluene-d8 (SS2)	12.697	98	209705	910.58	pg	0.00
Spiked Amount 1000.000			Recovery	=	91.06%	
74) Bromofluorobenzene (SS3)	16.228	174	91495	1006.48	pg	0.00
Spiked Amount 1000.000			Recovery	=	100.65%	

Target Compounds						Qvalue
3] * Dichlorodifluoromethane	3.720	85	5513	46.656	pg	100
4] * Chloromethane	3.851	50	1218	22.441	pg	98
5] * 1,2-Dichloro-1,1,2,2...	3.936	85	213	2.912	pg	90
7] * 1,3-Butadiene	4.147	54	65	1.500	pg	# 5
8] * Bromomethane	4.367	94	66	1.591	pg	# 3
9] * Chloroethane	4.539	64	117	3.104	pg	# 42
10] * Ethanol	4.596	45	9476	381.805	pg	98
11] * Acetonitrile	4.768	41	1365	15.279	pg	96
12] * Acrolein	4.878	56	311	8.723	pg	99
13] * Acetone	5.002	58	8177	170.334	pg	94
14] * Trichlorofluoromethane	5.126	101	3382	22.424	pg	100
15] * 2-Propanol (Isopropa...	5.207	45	2799	65.476	pg	98
16] * Acrylonitrile	5.349	53	72	1.080	pg	98
18] tert-Butanol	5.754	59	510	7.960	pg	# 48
19] * Methylene Chloride	5.739	84	5174	70.844	pg	99
21] * Trichlorotrifluoroet...	5.987	151	713	9.314	pg	99
22] * Carbon Disulfide	6.016	76	3599	14.544	pg	98
26] * Vinyl Acetate	6.893	86	158	29.747	pg	# 1
27] * 2-Butanone (MEK)	7.174	72	590	13.302	pg	90
29] DIPE	7.831	45	457	2.775	pg	# 58
30] * Ethyl Acetate	7.831	61	606	45.596	pg	91
31] * n-Hexane	7.818	57	309	3.200	pg	100
32] * Chloroform	7.864	83	316	2.499	pg	96
34] * Tetrahydrofuran	8.344	71	62	1.627	pg	# 59
36] * 1,2-Dichloroethane	8.661	62	138	1.474	pg	# 1
39] * Benzene	9.490	78	3139	16.387	pg	99
42] * Carbon Tetrachloride	9.662	117	751	30.814	pg	99
43] * Cyclohexane	9.818	84	118	1.587	pg	100
46] * Bromodichloromethane	10.626	83	141	3.522	pg	95
47] * Trichloroethene	10.699	130	67	1.017	pg	# 1
48] * 1,4-Dioxane	10.757	88	75	1.466	pg	# 69
49] Isooctane	10.778	56	383	6.036	pg	# 55
51] * n-Heptane	11.090	71	154	2.724	pg	98
53] * 4-Methyl-2-pentanone	11.798	58	372	9.645	pg	95
58] * Toluene	12.810	91	3749	15.832	pg	99
59] * 2-Hexanone	13.173	58	91	2.000	pg	# 48
60] * Dibromochloromethane	13.260	129	216	9.979	pg	100
62] * n-Butyl Acetate	13.912	56	51	3.207	pg	# 30
63] * n-Octane	14.005	85	66	1.265	pg	# 16
64] * Tetrachloroethene	14.104	166	90	1.277	pg	100
65] * Chlorobenzene	14.826	112	176	1.088	pg	99
66] * Ethylbenzene	15.220	91	700	2.733	pg	100
67] * m- & p-Xylenes	15.381	91	1491	7.406	pg	99
68] * Bromoform	15.423	173	131	8.517	pg	100

Data Path : I:\MS21\DATA\2023_03\03\
 Data File : 03032305.D
 Acq On : 3 Mar 2023 18:51
 Operator : KM
 Sample : 030323_AC02261_30687
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 06 06:50:58 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70]	* Styrene	15.721	104	249	1.819	pg	97
71]	* o-Xylene	15.822	91	604	2.895	pg	100
72]	* n-Nonane	16.067	57	81	1.109	pg	# 28
73]	* 1,1,2,2-Tetrachloroe...	15.798	83	79	1.133	pg	# 18
75]	* Cumene	16.363	105	145	0.516	pg	# 48
76]	* alpha-Pinene	16.705	93	264	2.084	pg	# 81
77]	* n-Propylbenzene	16.812	91	230	0.735	pg	97
78]	3-Ethyltoluene	16.938	105	221	0.861	pg	98
79]	* 4-Ethyltoluene	16.938	105	219	0.877	pg	97
80]	* 1,3,5-Trimethylbenzene	17.006	105	159	0.715	pg	96
83]	tert-Butylbenzene	17.373	134	110	2.036	pg	# 3
84]	* 1,2,4-Trimethylbenzene	17.352	105	444	1.971	pg	85
86]	* 1,3-Dichlorobenzene	17.470	146	90	0.645	pg	96
87]	* 1,4-Dichlorobenzene	17.530	146	209	1.544	pg	97
89]	sec-Butylbenzene	17.584	105	105	0.331	pg	# 56
91]	p-Isopropyltoluene	17.719	119	304	1.131	pg	98
92]	* 1,2-Dichlorobenzene	17.821	146	80	0.555	pg	96
93]	* D-Limonene	17.843	68	114	2.902	pg	91
97]	* 1,2,4-Trichlorobenzene	19.326	180	136	1.467	pg	95
98]	* Naphthalene	19.434	128	383	1.905	pg	95
100]	* Hexachlorobutadiene	19.792	225	150	1.743	pg	96

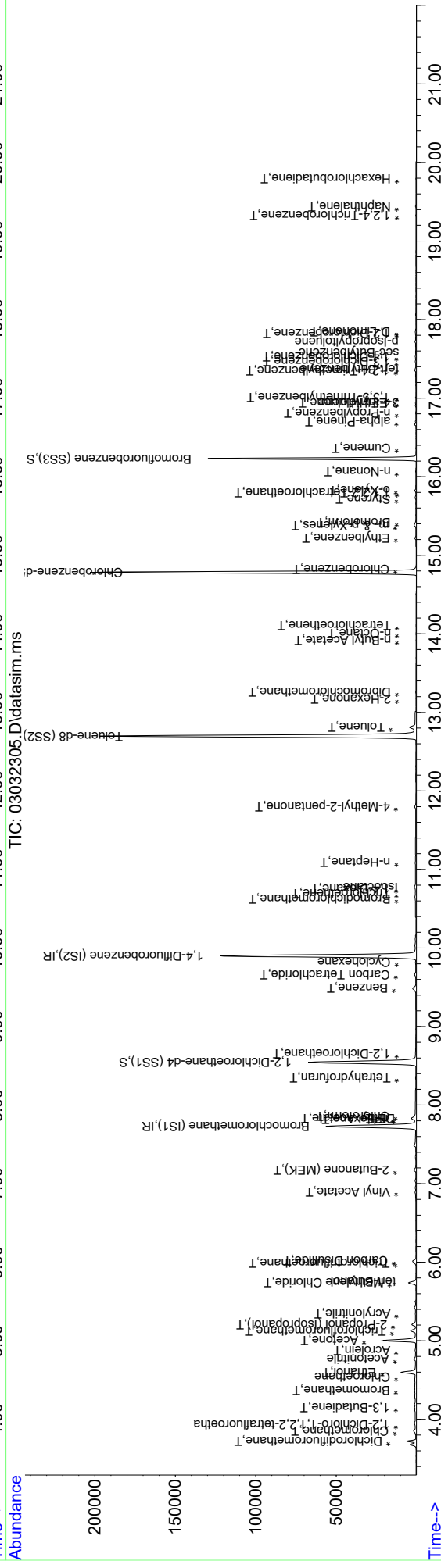
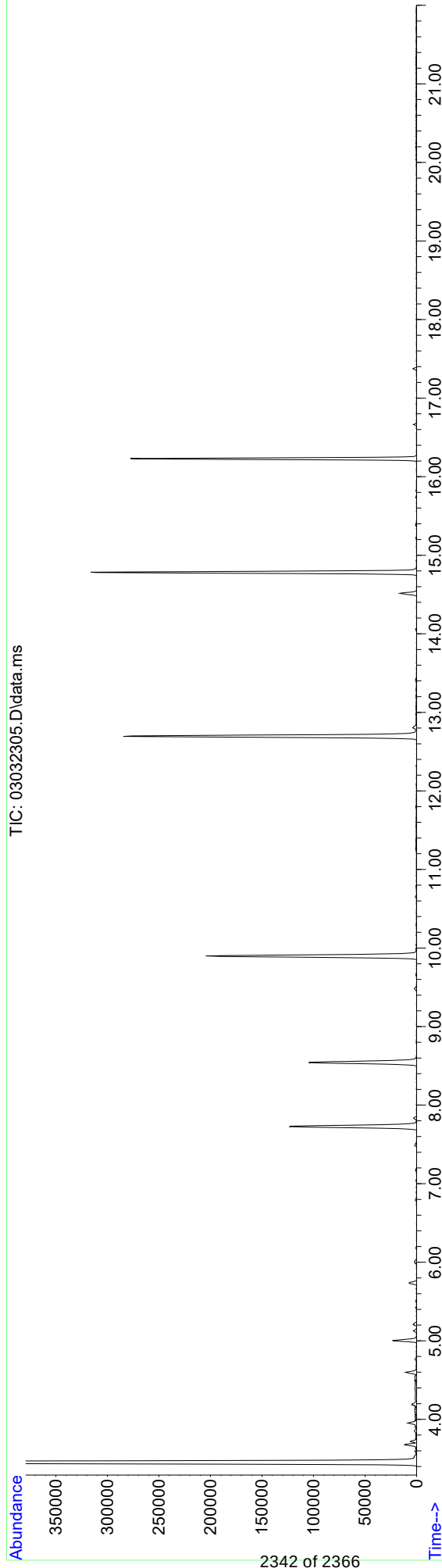
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data Path      : I:\MS21\DATA\2023_03\03\
Data File     : 03032305.D
Acq On       : 3 Mar 2023  18:51
Operator      : KM
Sample        : 030323_AC02261_30687
Misc          : LL + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial     : 1 Sample Multiplier: 1

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Quant Time: Mar 06 06:50:58 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA TO-15
Quant Update : Wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data Path : I:\MS21\DATA\2023_03\09\
 Data File : 03092314.D
 Acq On : 10 Mar 2023 1:55
 Operator : KM
 Sample : AC02226
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 10 Sample Multiplier: 1

APL 3/10/23

Quant Time: Mar 10 07:40:40 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.734	130	54864	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.901	114	180143	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	28872	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.550	65	84289	1002.14	pg	0.00
Spiked Amount 1000.000			Recovery	=	100.21%	
57) Toluene-d8 (SS2)	12.697	98	172247	844.11	pg	0.00
Spiked Amount 1000.000			Recovery	=	84.41%	
74) Bromofluorobenzene (SS3)	16.228	174	78005	968.44	pg	0.00
Spiked Amount 1000.000			Recovery	=	96.84%	

Target Compounds						Qvalue
3] * Dichlorodifluoromethane	3.729	85	7538	80.943	pg	99
4] * Chloromethane	3.861	50	1411	32.986	pg	100
5] * 1,2-Dichloro-1,1,2,2...	3.946	85	326	5.656	pg	94
6] * Vinyl Chloride	4.037	62	66	1.295	pg	# 42
7] * 1,3-Butadiene	4.157	54	74	2.167	pg	# 1
8] * Bromomethane	4.372	94	128	3.916	pg	89
9] * Chloroethane	4.507	64	146	4.915	pg	# 87
10] * Ethanol	4.606	45	22161	1132.945	pg	98
11] * Acetonitrile	4.773	41	1496	21.247	pg	97
12] * Acrolein	4.884	56	902	32.102	pg	99
13] * Acetone	5.008	58	14660	387.476	pg	94
14] * Trichlorofluoromethane	5.132	101	4676	39.339	pg	100
15] * 2-Propanol (Isopropa...	5.213	45	4477	132.884	pg	97
16] * Acrylonitrile	5.356	53	153	2.912	pg	96
17] * 1,1-Dichloroethene	5.652	96	66	1.169	pg	# 18
18] tert-Butanol	5.764	59	902	17.862	pg	# 42
19] * Methylene Chloride	5.744	84	8720	151.495	pg	99
21] * Trichlorotrifluoroet...	5.992	151	1025	16.990	pg	100
22] * Carbon Disulfide	6.016	76	3487	17.880	pg	100
23] * trans-1,2-Dichloroet...	6.581	96	84	1.468	pg	99
24] * 1,1-Dichloroethane	6.767	63	98	1.165	pg	# 42
25] * Methyl tert-Butyl Ether	6.892	73	110	0.752	pg	# 59
26] * Vinyl Acetate	6.887	86	972	232.197	pg	# 1
27] * 2-Butanone (MEK)	7.179	72	1342	38.390	pg	87
28] * cis-1,2-Dichloroethene	7.565	96	87	1.432	pg	95
29] DIPE	7.838	45	1774	13.666	pg	# 50
30] * Ethyl Acetate	7.838	61	2026	193.420	pg	93
31] * n-Hexane	7.825	57	261	3.430	pg	# 82
32] * Chloroform	7.870	83	381	3.823	pg	98
34] * Tetrahydrofuran	8.354	71	86	2.863	pg	95
35] ETBE	8.440	87	75	1.472	pg	96
36] * 1,2-Dichloroethane	8.666	62	268	3.633	pg	# 1
38] * 1,1,1-Trichloroethane	8.972	97	126	2.857	pg	96
39] * Benzene	9.489	78	1908	11.899	pg	98
42] * Carbon Tetrachloride	9.661	117	991	48.575	pg	99
43] * Cyclohexane	9.823	84	154	2.475	pg	93
44] TAME	10.248	87	71	2.717	pg	# 1
45] * 1,2-Dichloropropane	10.430	63	77	2.150	pg	86
46] * Bromodichloromethane	10.619	83	172	5.133	pg	94
47] * Trichloroethene	10.691	130	129	2.339	pg	89
48] * 1,4-Dioxane	10.757	88	146	3.409	pg	# 13
49] Isooctane	10.778	56	213	4.010	pg	70
50] * Methyl Methacrylate	10.960	69	155	7.205	pg	87
51] * n-Heptane	11.083	71	118	2.494	pg	# 39

Data Path : I:\MS21\DATA\2023_03\09\
 Data File : 03092314.D
 Acq On : 10 Mar 2023 1:55
 Operator : KM
 Sample : AC02226
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 10 07:40:40 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
52]	* cis-1,3-Dichloropropene	11.686	75	62	2.016	pg	# 1
53]	* 4-Methyl-2-pentanone	11.798	58	413	12.792	pg	96
55]	* 1,1,2-Trichloroethane	12.475	97	71	1.842	pg	# 19
58]	* Toluene	12.810	91	2775	13.226	pg	98
59]	* 2-Hexanone	13.178	58	307	7.617	pg	# 87
60]	* Dibromochloromethane	13.260	129	138	7.195	pg	94
61]	* 1,2-Dibromoethane	13.547	107	67	2.508	pg	96
62]	* n-Butyl Acetate	13.907	56	166	11.780	pg	98
63]	* n-Octane	14.000	85	87	1.881	pg	99
64]	* Tetrachloroethene	14.109	166	153	2.451	pg	97
65]	* Chlorobenzene	14.826	112	225	1.570	pg	99
66]	* Ethylbenzene	15.214	91	657	2.894	pg	96
67]	* m- & p-Xylenes	15.381	91	1250	7.008	pg	99
68]	* Bromoform	15.423	173	129	9.466	pg	89
70]	* Styrene	15.721	104	345	2.844	pg	99
71]	* o-Xylene	15.822	91	574	3.105	pg	100
72]	* n-Nonane	16.061	57	189	2.920	pg	87
73]	* 1,1,2,2-Tetrachloroe...	15.804	83	138	2.234	pg	94
75]	* Cumene	16.363	105	286	1.148	pg	98
76]	* alpha-Pinene	16.700	93	375	3.341	pg	# 81
77]	* n-Propylbenzene	16.812	91	374	1.348	pg	91
78]	3-Ethyltoluene	16.938	105	276	1.213	pg	100
79]	* 4-Ethyltoluene	16.938	105	276	1.248	pg	100
80]	* 1,3,5-Trimethylbenzene	17.006	105	262	1.330	pg	92
83]	tert-Butylbenzene	17.373	134	191	3.989	pg	# 1
84]	* 1,2,4-Trimethylbenzene	17.351	105	504	2.526	pg	94
86]	* 1,3-Dichlorobenzene	17.470	146	124	1.003	pg	100
87]	* 1,4-Dichlorobenzene	17.529	146	136	1.134	pg	98
89]	sec-Butylbenzene	17.583	105	265	0.942	pg	# 56
91]	p-Isopropyltoluene	17.718	119	612	2.569	pg	96
92]	* 1,2-Dichlorobenzene	17.821	146	134	1.050	pg	97
93]	* D-Limonene	17.843	68	262	7.528	pg	88
94]	n-Butylbenzene	18.070	134	72	1.265	pg	# 64
95]	* 1,2-Dibromo-3-chloro...	18.187	157	132	10.048	pg	94
97]	* 1,2,4-Trichlorobenzene	19.326	180	154	1.875	pg	94
98]	* Naphthalene	19.434	128	288	1.617	pg	# 68
100]	* Hexachlorobutadiene	19.792	225	221	2.898	pg	94

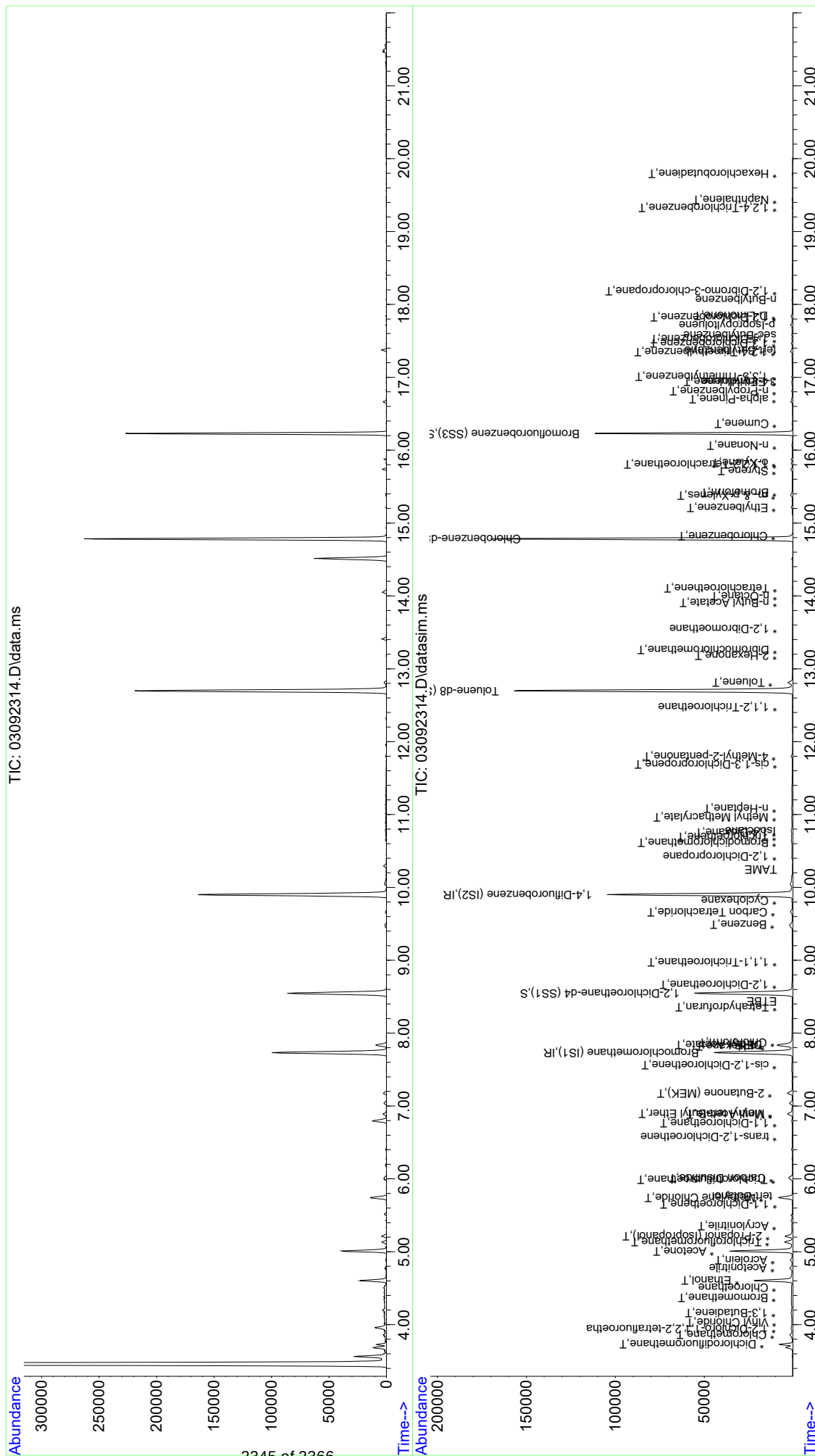
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data Path      : I:\MS21\DATA\2023_03\09\
Data File     : 03092314.D
Acq On       : 10 Mar 2023   1:55
Operator      : KM
Sample        : AC02226
Mwisc         : LL + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial      : 10 Sample Multiplier: 1

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Quant Time: Mar 10 07:40:40 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA 10-15
Quant Update : wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data File : I:\MS13\DATA\2023_03\08\03082304.D
 Acq On : 8 Mar 2023 5:19
 Sample : AC02522_30708
 Misc : S35-01202301

Vial: 14
 Operator: TZ
 Inst : MS13

TZ 3/8/23

Quant Time: Mar 08 07:48:25 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.32	130	185447	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.37	114	806482	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.88	54	137078	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.08	65	303334	12.326	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	98.64%
57) Toluene-d8 (SS2)	12.48	98	896721	12.720	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	101.76%
73) Bromofluorobenzene (SS3)	16.85	174	319631	12.379	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	99.04%

Target Compounds

						Qvalue
2) Propene	3.44	42	505	N.D.		
3) Dichlorodifluoromethan...	0.00	85	0	N.D.		
4) Chloromethane	3.47	50	588	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	4.42	45	992	0.075	ng	# 55
11) Acetonitrile	4.60	41	626	N.D.		
12) Acrolein	4.67	56	289	N.D.		
13) Acetone	4.78	58	3580	0.318	ng	# 77
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) 2-Propanol (Isopropanol)	4.98	45	3304	0.073	ng	85
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	5.46	59	156	N.D.		
19) Methylene Chloride	5.47	84	295	N.D.		
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	5.73	76	4536	0.070	ng	96
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone (MEK)	6.80	72	252	N.D.		
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	0.00	57	0	N.D.		
32) Chloroform	0.00	83	0	N.D.		
34) Tetrahydrofuran (THF)	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	9.37	61	21824	No Calib		
40) 1-Butanol	8.94	56	838	No Calib	#	
41) Benzene	8.97	78	253	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	9.36	84	341	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	10.23	88	545	N.D.		
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS13\DATA\2023_03\08\03082304.D
 Acq On : 8 Mar 2023 5:19
 Sample : AC02522_30708
 Misc : S35-01202301

Vial: 14
 Operator: TZ
 Inst : MS13

Quant Time: Mar 08 07:48:25 2023

Quant Method : I:\MS13\METHODS\R13022223.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Thu Feb 23 07:57:30 2023

Response via : Initial Calibration

DataAcq Meth:T015.M

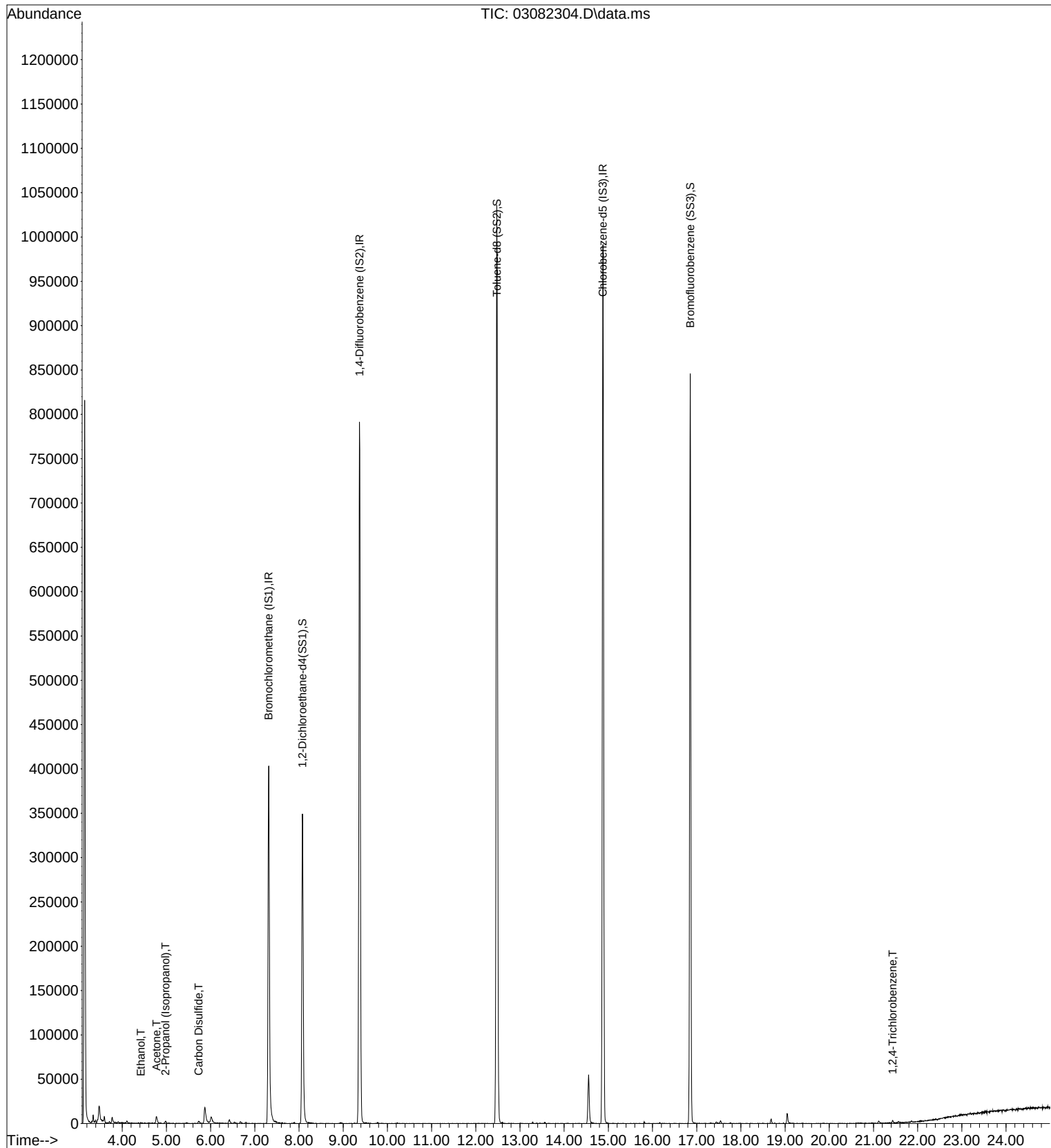
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.61	91	367	N.D.		
59) 2-Hexanone	13.01	43	536	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.85	43	190	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	0.00	91	0	N.D.		
67) m- & p-Xylenes	0.00	91	0	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	16.27	91	157	N.D.		
71) n-Nonane	0.00	43	0	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	0.00	105	0	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	17.75	91	129	N.D.		
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	0.00	105	0	N.D.		
79) 1,3,5-Trimethylbenzene	0.00	105	0	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	0.00	105	0	N.D.		
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	18.76	91	572	N.D.		
85) 1,3-Dichlorobenzene	18.77	146	130	N.D.		
86) 1,4-Dichlorobenzene	18.87	146	132	N.D.		
87) sec-Butylbenzene	0.00	105	0	N.D.		
88) 4-Isopropyltoluene (p-...	19.18	119	264	N.D.		
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	0.00	68	0	N.D.		
92) 1,2-Dibromo-3-Chloropr...	19.86	157	110	N.D.		
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	21.43	180	1649	0.058 ng	#	86
95) Naphthalene	21.56	128	2065	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	21.98	225	241	N.D.		
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	18.60	119	124	N.D.		
100) n-Butylbenzene	19.72	91	197	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File : I:\MS13\DATA\2023_03\08\03082304.D
Acq On : 8 Mar 2023 5:19
Sample : AC02522_30708
Misc : S35-01202301

Vial: 14
Operator: TZ
Inst : MS13

Quant Time: Mar 08 07:48:25 2023
Quant Method : I:\MS13\METHODS\R13022223.M
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)
QLast Update : Thu Feb 23 07:57:30 2023
Response via : Initial Calibration
DataAcq Meth:T015.M



Data Path : I:\MS21\DATA\2023_03\08\
 Data File : 03082318.D
 Acq On : 9 Mar 2023 2:43
 Operator : KM
 Sample : AC02148
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 14 Sample Multiplier: 1

APL 3/9/23

Quant Time: Mar 09 05:54:03 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.728	130	55563	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.896	114	182851	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	29637	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.545	65	86938	1020.63	pg	0.00
Spiked Amount 1000.000			Recovery	=	102.06%	
57) Toluene-d8 (SS2)	12.697	98	174742	834.24	pg	0.00
Spiked Amount 1000.000			Recovery	=	83.42%	
74) Bromofluorobenzene (SS3)	16.228	174	76956	930.75	pg	0.00
Spiked Amount 1000.000			Recovery	=	93.08%	
Target Compounds						Qvalue
2] * Propene	3.677	42	580	16.122	pg	# 1
3] * Dichlorodifluoromethane	3.720	85	2813	29.826	pg	100
4] * Chloromethane	3.851	50	722	16.666	pg	99
5] * 1,2-Dichloro-1,1,2,2...	3.941	85	312	5.345	pg	97
6] * Vinyl Chloride	4.032	62	143	2.770	pg	# 42
7] * 1,3-Butadiene	4.147	54	136	3.932	pg	# 1
8] * Bromomethane	4.367	94	196	5.921	pg	# 76
9] * Chloroethane	4.502	64	201	6.682	pg	# 42
10] * Ethanol	4.596	45	8102	408.991	pg	98
11] * Acetonitrile	4.763	41	1197	16.786	pg	97
12] * Acrolein	4.878	56	1012	35.564	pg	99
13] * Acetone	5.008	58	12187	318.061	pg	84
14] * Trichlorofluoromethane	5.126	101	1953	16.224	pg	99
15] * 2-Propanol (Isopropa...	5.200	45	3308	96.951	pg	# 87
16] * Acrylonitrile	5.356	53	246	4.623	pg	100
17] * 1,1-Dichloroethene	5.647	96	125	2.185	pg	100
18] tert-Butanol	5.749	59	1391	27.199	pg	# 69
19] * Methylene Chloride	5.735	84	857	14.702	pg	97
20] * 3-Chloro-1-propene (...)	5.846	41	94	2.560	pg	88
21] * Trichlorotrifluoroet...	5.992	151	501	8.200	pg	97
22] * Carbon Disulfide	6.016	76	6074	30.753	pg	99
23] * trans-1,2-Dichloroet...	6.571	96	144	2.484	pg	92
24] * 1,1-Dichloroethane	6.762	63	213	2.500	pg	95
25] * Methyl tert-Butyl Ether	6.883	73	285	1.925	pg	99
26] * Vinyl Acetate	6.888	86	813	191.770	pg	# 1
27] * 2-Butanone (MEK)	7.169	72	1385	39.122	pg	88
28] * cis-1,2-Dichloroethene	7.572	96	151	2.454	pg	97
29] DIPE	7.838	45	753	5.728	pg	# 79
30] * Ethyl Acetate	7.831	61	484	45.626	pg	94
31] * n-Hexane	7.818	57	222	2.881	pg	# 90
32] * Chloroform	7.864	83	418	4.141	pg	99
34] * Tetrahydrofuran	8.339	71	198	6.508	pg	96
35] ETBE	8.430	87	205	3.972	pg	98
36] * 1,2-Dichloroethane	8.661	62	272	3.641	pg	# 42
38] * 1,1,1-Trichloroethane	8.967	97	272	6.076	pg	98
39] * Benzene	9.484	78	1482	9.106	pg	96
42] * Carbon Tetrachloride	9.662	117	571	27.574	pg	95
43] * Cyclohexane	9.813	84	260	4.116	pg	84
44] TAME	10.243	87	156	5.882	pg	98
45] * 1,2-Dichloropropane	10.423	63	131	3.604	pg	89
46] * Bromodichloromethane	10.626	83	270	7.938	pg	94
47] * Trichloroethene	10.691	130	215	3.840	pg	84
48] * 1,4-Dioxane	10.757	88	299	6.878	pg	89
49] Isooctane	10.771	56	190	3.524	pg	99

Data Path : I:\MS21\DATA\2023_03\08\
 Data File : 03082318.D
 Acq On : 9 Mar 2023 2:43
 Operator : KM
 Sample : AC02148
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 14 Sample Multiplier: 1

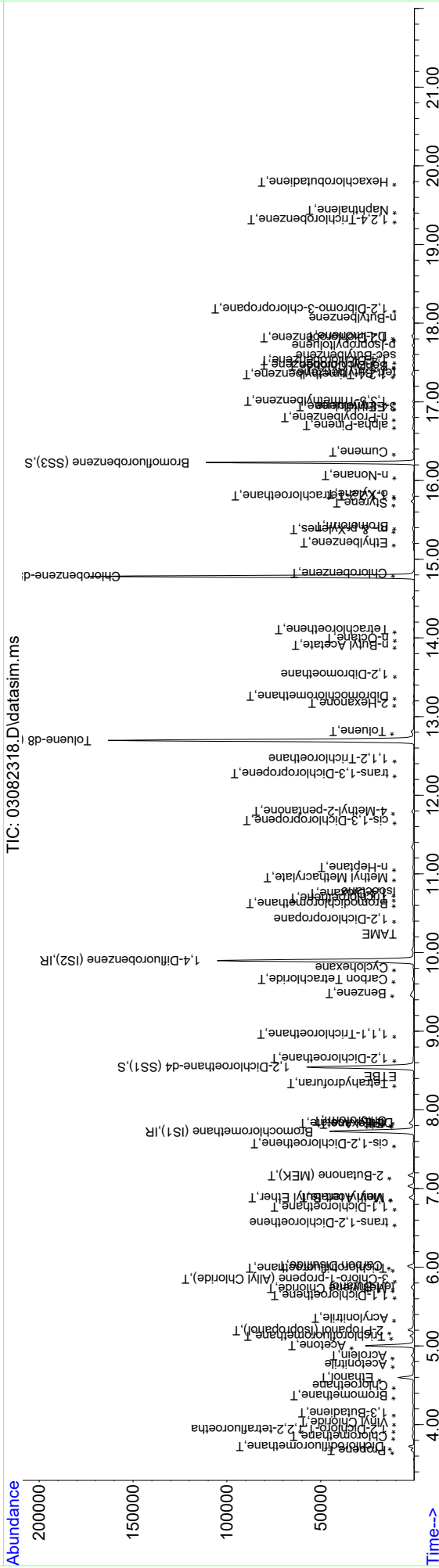
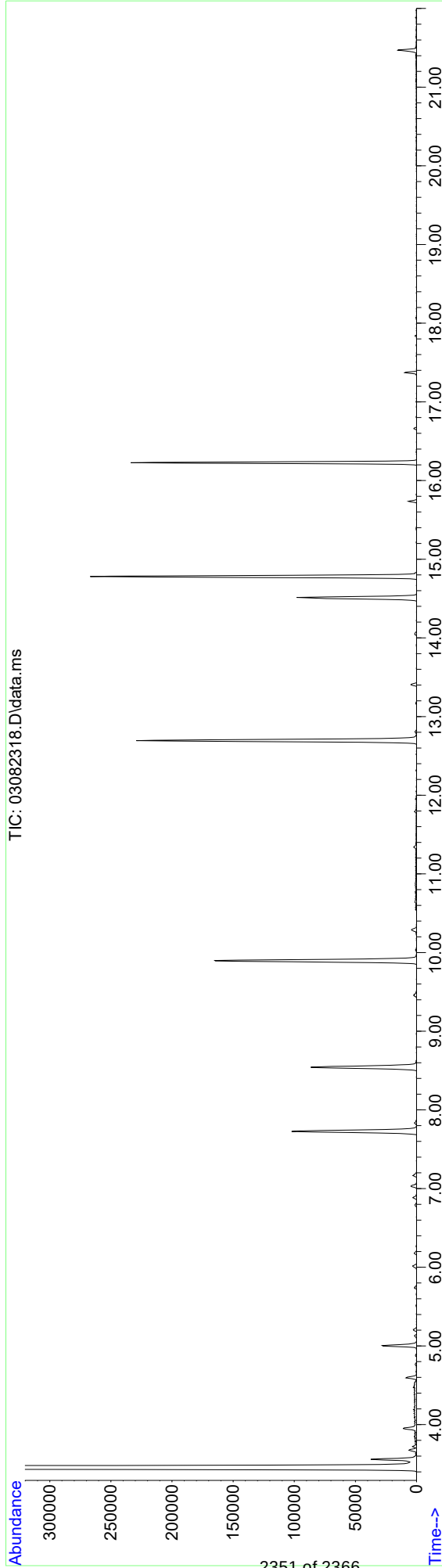
Quant Time: Mar 09 05:54:03 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA TO-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50]	* Methyl Methacrylate	10.953	69	254	11.633	pg	96
51]	* n-Heptane	11.083	71	163	3.394	pg	97
52]	* cis-1,3-Dichloropropene	11.680	75	127	4.069	pg	# 66
53]	* 4-Methyl-2-pentanone	11.798	58	532	16.233	pg	95
54]	* trans-1,3-Dichloropr...	12.280	75	100	4.318	pg	# 42
55]	* 1,1,2-Trichloroethane	12.469	97	139	3.552	pg	99
58]	* Toluene	12.810	91	1484	6.890	pg	98
59]	* 2-Hexanone	13.168	58	624	15.082	pg	93
60]	* Dibromochloromethane	13.260	129	209	10.616	pg	100
61]	* 1,2-Dibromoethane	13.542	107	126	4.595	pg	98
62]	* n-Butyl Acetate	13.907	56	284	19.633	pg	95
63]	* n-Octane	14.000	85	104	2.191	pg	95
64]	* Tetrachloroethene	14.109	166	225	3.511	pg	95
65]	* Chlorobenzene	14.826	112	354	2.406	pg	93
66]	* Ethylbenzene	15.214	91	587	2.519	pg	98
67]	* m- & p-Xylenes	15.381	91	968	5.287	pg	97
68]	* Bromoform	15.423	173	184	13.153	pg	93
70]	* Styrene	15.721	104	270	2.168	pg	96
71]	* o-Xylene	15.822	91	474	2.498	pg	99
72]	* n-Nonane	16.067	57	159	2.393	pg	96
73]	* 1,1,2,2-Tetrachloroe...	15.804	83	274	4.321	pg	92
75]	* Cumene	16.363	105	553	2.163	pg	97
76]	* alpha-Pinene	16.705	93	261	2.265	pg	# 71
77]	* n-Propylbenzene	16.807	91	524	1.840	pg	99
78]	3-Ethyltoluene	16.938	105	379	1.623	pg	98
79]	* 4-Ethyltoluene	16.938	105	379	1.669	pg	98
80]	* 1,3,5-Trimethylbenzene	17.006	105	381	1.884	pg	99
83]	tert-Butylbenzene	17.373	134	281	5.717	pg	# 7
84]	* 1,2,4-Trimethylbenzene	17.352	105	453	2.211	pg	98
85]	* Benzyl Chloride	17.459	126	50	6.947	pg	68
86]	* 1,3-Dichlorobenzene	17.470	146	199	1.568	pg	97
87]	* 1,4-Dichlorobenzene	17.530	146	162	1.316	pg	89
89]	sec-Butylbenzene	17.584	105	458	1.586	pg	95
91]	p-Isopropyltoluene	17.719	119	515	2.106	pg	98
92]	* 1,2-Dichlorobenzene	17.816	146	208	1.588	pg	99
93]	* D-Limonene	17.837	68	443	12.400	pg	99
94]	n-Butylbenzene	18.070	134	98	1.678	pg	# 49
95]	* 1,2-Dibromo-3-chloro...	18.181	157	242	17.946	pg	95
97]	* 1,2,4-Trichlorobenzene	19.321	180	178	2.111	pg	90
98]	* Naphthalene	19.439	128	178	0.973	pg	# 68
100]	* Hexachlorobutadiene	19.792	225	299	3.820	pg	100

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

Data Path : I:\MS21\DATA\2023_03\08\
Data File : 03082318.D
Acq On : 9 Mar 2023 2:43
Operator : KM
Sample : AC02148
Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 09 05:54:03 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA T0-15
QLast Update : Wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data Path : I:\MS21\DATA\2023_02\28\
 Data File : 02282325.D
 Acq On : 1 Mar 2023 7:46
 Operator : KM
 Sample : AS01617
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 206 Sample Multiplier: 1

APL 3/1/23

Quant Time: Mar 01 09:30:29 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.727	130	67948	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.896	114	223975	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	35492	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.545	65	101425	973.67	pg	0.00
Spiked Amount 1000.000			Recovery	=	97.37%	
57) Toluene-d8 (SS2)	12.697	98	221230	881.94	pg	0.00
Spiked Amount 1000.000			Recovery	=	88.19%	
74) Bromofluorobenzene (SS3)	16.228	174	79506	802.96	pg	0.00
Spiked Amount 1000.000			Recovery	=	80.30%	
Target Compounds						Qvalue
3] * Dichlorodifluoromethane	3.720	85	8485	73.568	pg	100
4] * Chloromethane	3.851	50	1866	35.223	pg	96
5] * 1,2-Dichloro-1,1,2,2...	3.936	85	331	4.637	pg	96
7] * 1,3-Butadiene	4.147	54	65	1.537	pg	# 5
8] * Bromomethane	4.362	94	85	2.100	pg	94
9] * Chloroethane	4.497	64	152	4.132	pg	# 42
10] * Ethanol	4.601	45	18788	775.552	pg	99
11] * Acetonitrile	4.768	41	1129	12.947	pg	98
12] * Acrolein	4.878	56	544	15.633	pg	98
13] * Acetone	5.002	58	15889	339.093	pg	87
14] * Trichlorofluoromethane	5.126	101	5778	39.250	pg	99
15] * 2-Propanol (Isopropa...	5.207	45	6003	143.868	pg	95
16] * Acrylonitrile	5.356	53	91	1.399	pg	94
18] tert-Butanol	5.754	59	488	7.803	pg	# 37
19] * Methylene Chloride	5.734	84	6200	86.973	pg	100
21] * Trichlorotrifluoroet...	5.992	151	1139	15.244	pg	99
22] * Carbon Disulfide	6.016	76	2877	11.912	pg	100
26] * Vinyl Acetate	6.882	86	227	43.785	pg	# 1
27] * 2-Butanone (MEK)	7.169	72	1208	27.903	pg	83
29] DIPE	7.831	45	729	4.535	pg	# 36
30] * Ethyl Acetate	7.831	61	897	69.146	pg	87
31] * n-Hexane	7.818	57	430	4.563	pg	99
32] * Chloroform	7.864	83	333	2.698	pg	98
34] * Tetrahydrofuran	8.344	71	107	2.876	pg	90
36] * 1,2-Dichloroethane	8.661	62	220	2.408	pg	90
39] * Benzene	9.484	78	3130	15.700	pg	100
42] * Carbon Tetrachloride	9.661	117	1272	50.147	pg	100
43] * Cyclohexane	9.813	84	180	2.326	pg	100
45] * 1,2-Dichloropropane	10.423	63	70	1.572	pg	# 23
46] * Bromodichloromethane	10.619	83	65	1.560	pg	# 59
49] Isooctane	10.778	56	408	6.178	pg	# 52
50] * Methyl Methacrylate	10.945	69	52	1.944	pg	# 32
51] * n-Heptane	11.083	71	337	5.728	pg	96
53] * 4-Methyl-2-pentanone	11.798	58	412	10.263	pg	98
58] * Toluene	12.810	91	3878	15.036	pg	98
59] * 2-Hexanone	13.179	58	127	2.563	pg	# 48
60] * Dibromochloromethane	13.260	129	124	5.259	pg	92
62] * n-Butyl Acetate	13.907	56	122	7.043	pg	# 30
63] * n-Octane	13.995	85	93	1.636	pg	85
64] * Tetrachloroethene	14.103	166	101	1.316	pg	97
65] * Chlorobenzene	14.826	112	176	0.999	pg	# 42
66] * Ethylbenzene	15.214	91	1141	4.089	pg	99
67] * m- & p-Xylenes	15.381	91	2712	12.368	pg	99
68] * Bromoform	15.417	173	114	6.805	pg	99

Data Path : I:\MS21\DATA\2023_02\28\
 Data File : 02282325.D
 Acq On : 1 Mar 2023 7:46
 Operator : KM
 Sample : AS01617
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 206 Sample Multiplier: 1

Quant Time: Mar 01 09:30:29 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70]	* Styrene	15.721	104	581	3.896	pg	98
71]	* o-Xylene	15.822	91	1065	4.686	pg	99
72]	* n-Nonane	16.067	57	116	1.458	pg	96
73]	* 1,1,2,2-Tetrachloroe...	15.798	83	54	0.711	pg	# 18
75]	* Cumene	16.363	105	120	0.392	pg	# 48
76]	* alpha-Pinene	16.700	93	558	4.044	pg	# 82
77]	* n-Propylbenzene	16.812	91	229	0.671	pg	# 51
78]	3-Ethyltoluene	16.938	105	201	0.719	pg	97
79]	* 4-Ethyltoluene	16.938	105	196	0.721	pg	98
80]	* 1,3,5-Trimethylbenzene	17.006	105	183	0.755	pg	95
83]	tert-Butylbenzene	17.373	134	111	1.886	pg	# 2
84]	* 1,2,4-Trimethylbenzene	17.351	105	535	2.181	pg	# 83
86]	* 1,3-Dichlorobenzene	17.476	146	97	0.638	pg	91
87]	* 1,4-Dichlorobenzene	17.530	146	131	0.888	pg	98
89]	sec-Butylbenzene	17.584	105	70	0.202	pg	# 56
91]	p-Isopropyltoluene	17.718	119	440	1.502	pg	100
92]	* 1,2-Dichlorobenzene	17.816	146	75	0.478	pg	# 18
93]	* D-Limonene	17.837	68	199	4.651	pg	88
97]	* 1,2,4-Trichlorobenzene	19.326	180	135	1.337	pg	94
98]	* Naphthalene	19.434	128	155	0.708	pg	# 68
100]	* Hexachlorobutadiene	19.792	225	113	1.205	pg	# 41

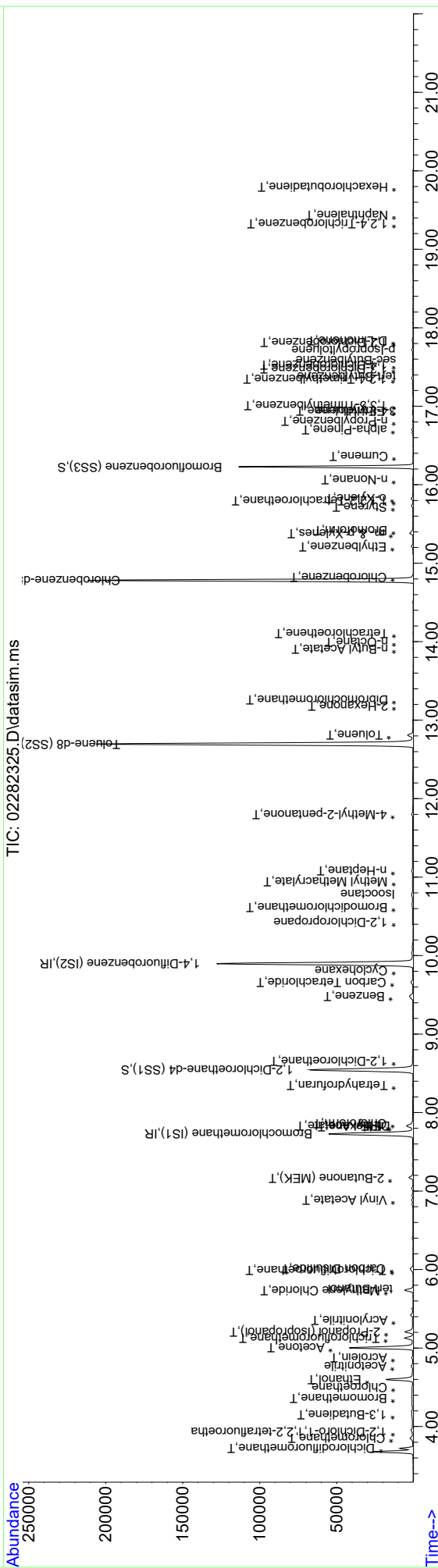
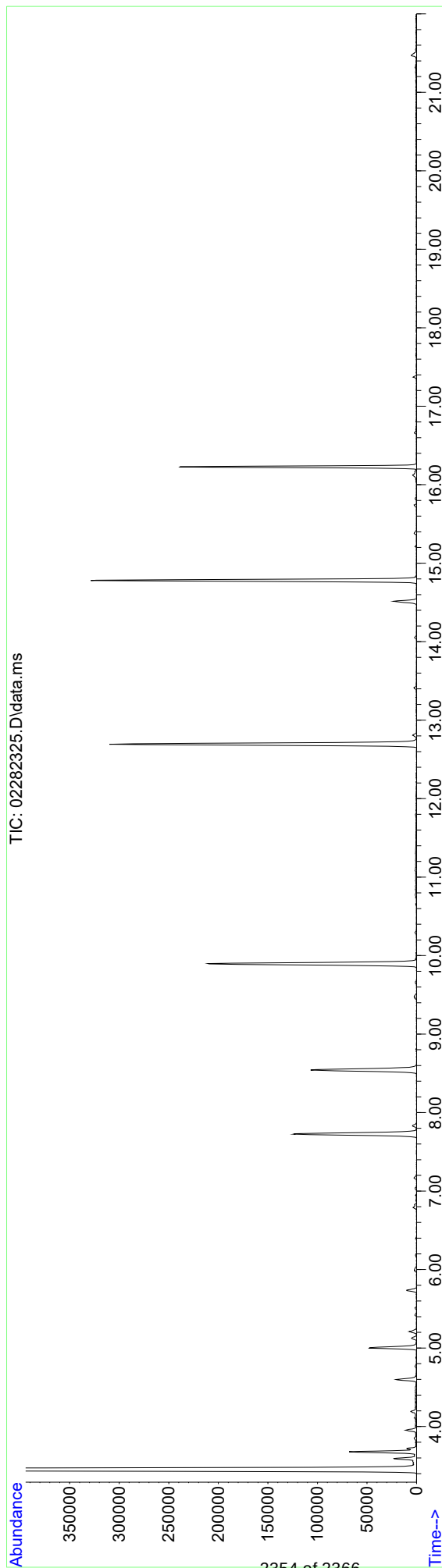
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data Path      : I:\MS21\DATA\2023_02\28\
Data File     : 02282325.D
Acq On       : 1 Mar 2023   7:46
Operator      : KM
Sample        : AS01617
Misc          : LL + TICS (Sig #1); S35-
ALS Vial      : 206 Sample Multiplier:

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Quant Time: Mar 01 09:30:29 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA 10-15
QLast Update : wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data Path : I:\MS21\DATA\2023_03\03\
 Data File : 03032306.D
 Acq On : 3 Mar 2023 19:36
 Operator : KM
 Sample : 030323_SSC00589_30690
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

APL 3/6/23

Quant Time: Mar 06 06:56:35 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.727	130	68487	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.901	114	212156	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.781	54	32072	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.545	65	97913	932.56	pg	0.00
Spiked Amount 1000.000			Recovery	=	93.26%	
57) Toluene-d8 (SS2)	12.697	98	212988	939.63	pg	0.00
Spiked Amount 1000.000			Recovery	=	93.96%	
74) Bromofluorobenzene (SS3)	16.228	174	90850	1015.37	pg	0.00
Spiked Amount 1000.000			Recovery	=	101.54%	

Target	Compounds					Qvalue
2]	* Propene	3.660	42	633	14.275 pg	# 76
3]	* Dichlorodifluoromethane	3.720	85	247	2.125 pg	# 92
4]	* Chloromethane	3.851	50	162	3.034 pg	# 56
7]	* 1,3-Butadiene	4.147	54	24	0.563 pg	# 5
9]	* Chloroethane	4.492	64	253	6.823 pg	# 42
10]	* Ethanol	4.596	45	2538	103.942 pg	# 97
11]	* Acetonitrile	4.768	41	676	7.691 pg	# 89
12]	* Acrolein	4.877	56	345	9.836 pg	# 95
13]	* Acetone	5.002	58	38474	814.625 pg	# 92
14]	* Trichlorofluoromethane	5.126	101	133	0.896 pg	# 90
15]	* 2-Propanol (Isopropa...	5.200	45	3244	77.134 pg	# 86
16]	* Acrylonitrile	5.356	53	67	1.022 pg	# 8
18]	tert-Butanol	5.744	59	424	6.726 pg	# 72
19]	* Methylene Chloride	5.734	84	265	3.688 pg	# 96
22]	* Carbon Disulfide	6.011	76	23465	96.387 pg	# 98
24]	* 1,1-Dichloroethane	6.777	63	184	1.752 pg	# 96
26]	* Vinyl Acetate	6.887	86	425	81.331 pg	# 1
27]	* 2-Butanone (MEK)	7.164	72	6051	138.668 pg	# 96
30]	* Ethyl Acetate	7.825	61	61	4.665 pg	# 94
31]	* n-Hexane	7.825	57	167	1.758 pg	# 53
34]	* Tetrahydrofuran	8.344	71	186	4.960 pg	# 60
39]	* Benzene	9.484	78	985	5.216 pg	# 100
46]	* Bromodichloromethane	10.626	83	88	2.230 pg	# 99
47]	* Trichloroethene	10.691	130	66	1.016 pg	# 1
48]	* 1,4-Dioxane	10.749	88	101	2.002 pg	# 99
51]	* n-Heptane	11.090	71	153	2.745 pg	# 100
53]	* 4-Methyl-2-pentanone	11.792	58	818	21.513 pg	# 98
58]	* Toluene	12.810	91	18306	78.544 pg	# 98
59]	* 2-Hexanone	13.168	58	4456	99.524 pg	# 99
60]	* Dibromochloromethane	13.254	129	125	5.867 pg	# 99
63]	* n-Octane	14.005	85	141	2.745 pg	# 97
64]	* Tetrachloroethene	14.109	166	53	0.764 pg	# 11
65]	* Chlorobenzene	14.821	112	124	0.779 pg	# 42
66]	* Ethylbenzene	15.214	91	870	3.450 pg	# 98
67]	* m- & p-Xylenes	15.381	91	1614	8.146 pg	# 99
68]	* Bromoform	15.417	173	85	5.615 pg	# 26
70]	* Styrene	15.727	104	165	1.224 pg	# 99
71]	* o-Xylene	15.822	91	338	1.646 pg	# 99
72]	* n-Nonane	16.067	57	170	2.364 pg	# 90
73]	* 1,1,2,2-Tetrachloroe...	15.798	83	72	1.049 pg	# 18
75]	* Cumene	16.363	105	181	0.654 pg	# 48
76]	* alpha-Pinene	16.753	93	110	0.882 pg	# 35
77]	* n-Propylbenzene	16.811	91	224	0.727 pg	# 99
78]	3-Ethyltoluene	16.933	105	569	2.251 pg	# 63

Data Path : I:\MS21\DATA\2023_03\03\
 Data File : 03032306.D
 Acq On : 3 Mar 2023 19:36
 Operator : KM
 Sample : 030323_SSC00589_30690
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

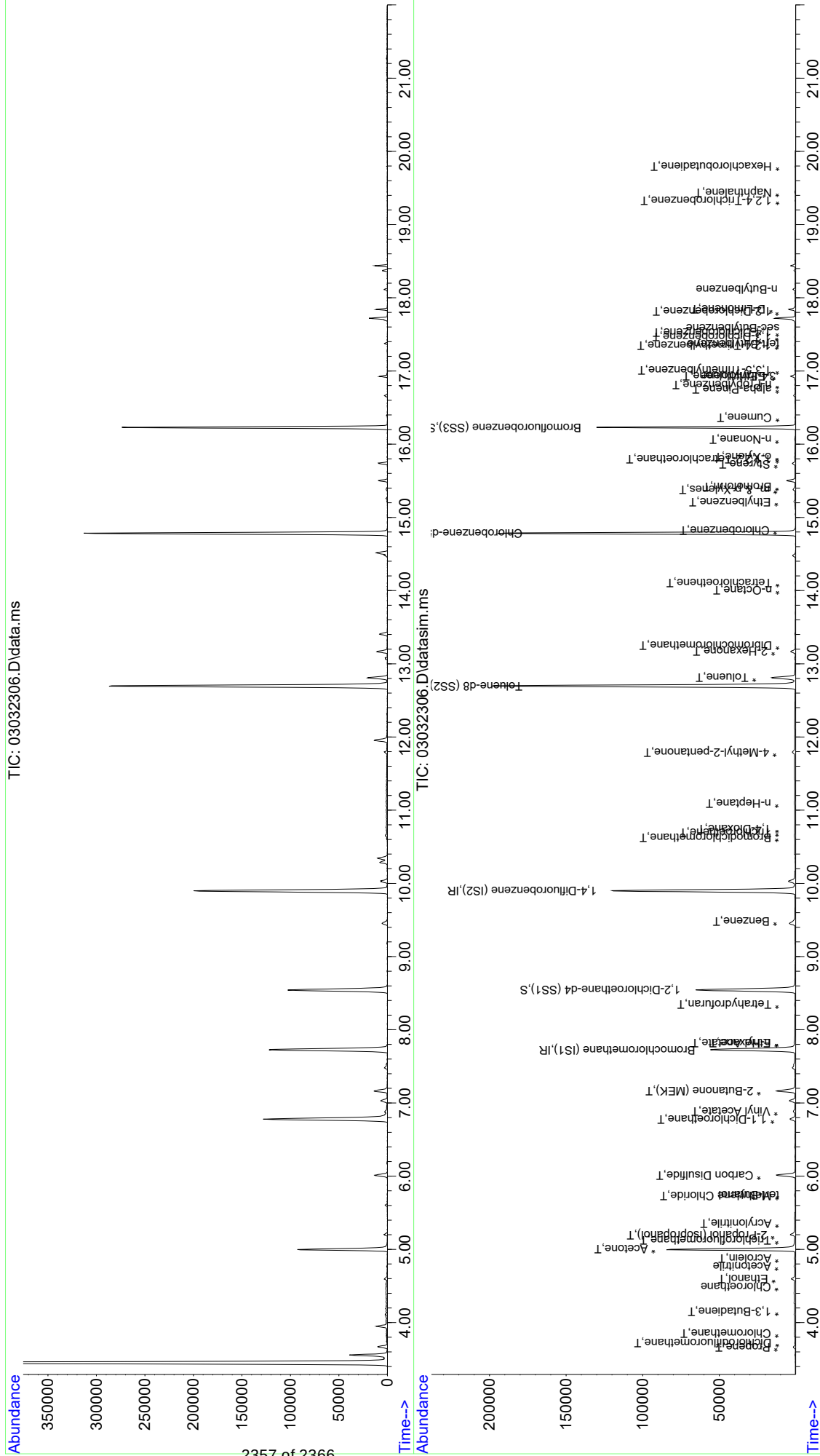
Quant Time: Mar 06 06:56:35 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA TO-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79]	* 4-Ethyltoluene	16.933	105	566	2.304	pg	# 63
80]	* 1,3,5-Trimethylbenzene	17.006	105	106	0.484	pg	# 28
83]	tert-Butylbenzene	17.373	134	109	2.049	pg	# 1
84]	* 1,2,4-Trimethylbenzene	17.351	105	210	0.947	pg	87
86]	* 1,3-Dichlorobenzene	17.470	146	71	0.517	pg	85
87]	* 1,4-Dichlorobenzene	17.524	146	100	0.750	pg	92
89]	sec-Butylbenzene	17.589	105	73	0.234	pg	# 56
92]	* 1,2-Dichlorobenzene	17.815	146	71	0.501	pg	87
93]	* D-Limonene	17.842	68	1792	46.352	pg	85
94]	n-Butylbenzene	18.115	134	117	1.851	pg	# 1
97]	* 1,2,4-Trichlorobenzene	19.326	180	117	1.282	pg	94
98]	* Naphthalene	19.439	128	268	1.354	pg	# 68
100]	* Hexachlorobutadiene	19.792	225	141	1.665	pg	# 41

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

Data Path : I:\MS21\DATA\2023_03\03\
Data File : 03032306.D
Acq On : 3 Mar 2023 19:36
Operator : KM
Sample : 030323_SSC00589_30690
Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 06 06:56:35 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA T0-15
QLast Update : Wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data Path : I:\MS21\DATA\2023_03\02\
 Data File : 03022312.D
 Acq On : 3 Mar 2023 00:22
 Operator : KM
 Sample : SC02093
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 8 Sample Multiplier: 1

AL 3/3/23

Quant Time: Mar 03 04:56:56 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.734	130	70736	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.901	114	239083	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.782	54	35113	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.545	65	103386	953.38	pg	0.00
Spiked Amount 1000.000			Recovery	=	95.34%	
57) Toluene-d8 (SS2)	12.697	98	211057	850.47	pg	0.00
Spiked Amount 1000.000			Recovery	=	85.05%	
74) Bromofluorobenzene (SS3)	16.228	174	89441	913.05	pg	0.00
Spiked Amount 1000.000			Recovery	=	91.30%	

Target	Compounds					Qvalue
3]	* Dichlorodifluoromethane	3.729	85	1694	14.109 pg	98
4]	* Chloromethane	3.856	50	1279	23.191 pg	96
5]	* 1,2-Dichloro-1,1,2,2...	3.946	85	167	2.247 pg	# 42
6]	* Vinyl Chloride	4.037	62	89	1.354 pg	# 42
7]	* 1,3-Butadiene	4.152	54	140	3.180 pg	82
8]	* Bromomethane	4.372	94	291	6.905 pg	97
9]	* Chloroethane	4.507	64	304	7.938 pg	# 77
10]	* Ethanol	4.606	45	7995	317.019 pg	98
11]	* Acetonitrile	4.768	41	5626	61.973 pg	99
12]	* Acrolein	4.884	56	3525	97.304 pg	98
13]	* Acetone	5.008	58	40657	833.477 pg	85
14]	* Trichlorofluoromethane	5.132	101	1180	7.700 pg	99
15]	* 2-Propanol (Isopropa...	5.207	45	5801	133.547 pg	97
16]	* Acrylonitrile	5.356	53	221	3.263 pg	91
17]	* 1,1-Dichloroethene	5.657	96	64	0.879 pg	# 18
18]	tert-Butanol	5.754	59	2268	34.835 pg	# 81
19]	* Methylene Chloride	5.744	84	2249	30.305 pg	98
20]	* 3-Chloro-1-propene (...)	5.846	41	53	1.134 pg	# 26
21]	* Trichlorotrifluoroet...	5.997	151	281	3.613 pg	99
22]	* Carbon Disulfide	6.016	76	35687	141.930 pg	99
23]	* trans-1,2-Dichloroet...	6.576	96	64	0.867 pg	# 18
24]	* 1,1-Dichloroethane	6.772	63	120	1.106 pg	# 42
25]	* Methyl tert-Butyl Ether	6.887	73	124	0.658 pg	# 1
26]	* Vinyl Acetate	6.887	86	2918	540.657 pg	# 1
27]	* 2-Butanone (MEK)	7.169	72	3994	88.619 pg	93
28]	* cis-1,2-Dichloroethene	7.572	96	59	0.753 pg	# 18
29]	DIPE	7.838	45	781	4.667 pg	# 36
30]	* Ethyl Acetate	7.831	61	868	64.273 pg	92
31]	* n-Hexane	7.825	57	149	1.519 pg	# 75
32]	* Chloroform	7.870	83	504	3.922 pg	98
34]	* Tetrahydrofuran	8.349	71	477	12.315 pg	86
35]	ETBE	8.430	87	71	1.081 pg	83
36]	* 1,2-Dichloroethane	8.671	62	203	2.134 pg	92
38]	* 1,1,1-Trichloroethane	8.967	97	187	3.195 pg	94
39]	* Benzene	9.485	78	2686	12.622 pg	99
42]	* Carbon Tetrachloride	9.662	117	429	15.844 pg	98
43]	* Cyclohexane	9.818	84	137	1.659 pg	# 56
44]	TAME	10.237	87	54	1.557 pg	# 1
45]	* 1,2-Dichloropropane	10.423	63	70	1.473 pg	# 23
46]	* Bromodichloromethane	10.626	83	154	3.463 pg	99
47]	* Trichloroethene	10.699	130	189	2.582 pg	95
48]	* 1,4-Dioxane	10.742	88	5343	94.002 pg	83
49]	Isooctane	10.778	56	165	2.341 pg	# 1
50]	* Methyl Methacrylate	10.953	69	126	4.413 pg	96

Data Path : I:\MS21\DATA\2023_03\02\
 Data File : 03022312.D
 Acq On : 3 Mar 2023 00:22
 Operator : KM
 Sample : SC02093
 Misc : LL + TICS (Sig #1); S35-02272301 (Sig #2)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 03 04:56:56 2023
 Quant Method : I:\MS21\Methods\F21011723.M
 Quant Title : EPA T0-15
 QLast Update : Wed Jan 18 06:49:07 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51]	* n-Heptane	11.083	71	149	2.373	pg	# 39
52]	* cis-1,3-Dichloropropene	11.680	75	55	1.348	pg	# 11
53]	* 4-Methyl-2-pentanone	11.793	58	596	13.909	pg	95
55]	* 1,1,2-Trichloroethane	12.475	97	82	1.603	pg	# 19
58]	* Toluene	12.810	91	2197	8.610	pg	98
59]	* 2-Hexanone	13.168	58	966	19.707	pg	98
60]	* Dibromochloromethane	13.260	129	123	5.273	pg	99
61]	* 1,2-Dibromoethane	13.553	107	54	1.662	pg	# 2
62]	* n-Butyl Acetate	13.912	56	111	6.477	pg	99
63]	* n-Octane	14.000	85	60	1.067	pg	# 16
64]	* Tetrachloroethene	14.109	166	237	3.121	pg	97
65]	* Chlorobenzene	14.826	112	228	1.308	pg	96
66]	* Ethylbenzene	15.214	91	457	1.656	pg	99
67]	* m- & p-Xylenes	15.381	91	884	4.075	pg	97
68]	* Bromoform	15.417	173	105	6.335	pg	97
70]	* Styrene	15.721	104	742	5.029	pg	100
71]	* o-Xylene	15.822	91	452	2.010	pg	99
72]	* n-Nonane	16.067	57	117	1.486	pg	94
73]	* 1,1,2,2-Tetrachloroe...	15.798	83	163	2.170	pg	87
75]	* Cumene	16.363	105	265	0.875	pg	99
76]	* alpha-Pinene	16.700	93	305	2.234	pg	# 60
77]	* n-Propylbenzene	16.807	91	393	1.165	pg	95
78]	3-Ethyltoluene	16.938	105	235	0.849	pg	98
79]	* 4-Ethyltoluene	16.938	105	235	0.874	pg	97
80]	* 1,3,5-Trimethylbenzene	17.006	105	240	1.001	pg	99
83]	tert-Butylbenzene	17.373	134	386	6.629	pg	# 1
84]	* 1,2,4-Trimethylbenzene	17.352	105	618	2.546	pg	89
86]	* 1,3-Dichlorobenzene	17.530	146	134	0.891	pg	96
87]	* 1,4-Dichlorobenzene	17.530	146	136	0.932	pg	96
89]	sec-Butylbenzene	17.584	105	211	0.617	pg	# 56
91]	p-Isopropyltoluene	17.719	119	831	2.868	pg	100
92]	* 1,2-Dichlorobenzene	17.816	146	107	0.689	pg	93
93]	* D-Limonene	17.837	68	653	15.428	pg	99
94]	n-Butylbenzene	18.064	134	83	1.199	pg	# 1
95]	* 1,2-Dibromo-3-chloro...	18.182	157	66	4.131	pg	# 67
97]	* 1,2,4-Trichlorobenzene	19.323	180	115	1.151	pg	87
98]	* Naphthalene	19.436	128	1189	5.488	pg	98
100]	* Hexachlorobutadiene	19.789	225	188	2.027	pg	95

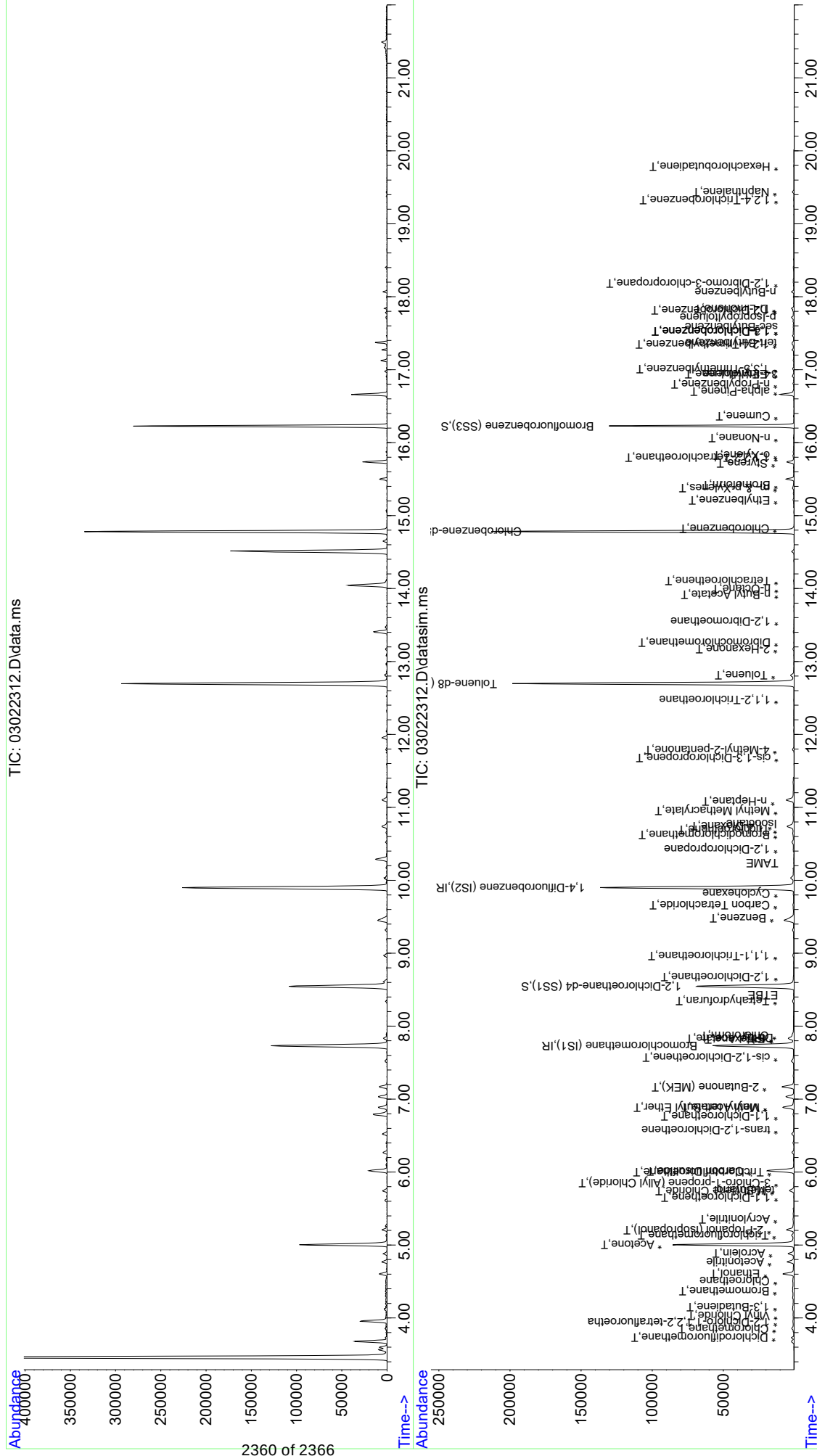
(#) = qualifier out of range (m) = manual integration (+) = signals summed


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Data Path      : I:\MS21\DATA\2023_03\02\
Data File     : 03022312.D
Acq On       : 3 Mar 2023  00:22
Operator      : KM
Sample        : SC02093
Misc          : LL + TICS (Sig #1); S35-02272301 (Sig #2)
ALS Vial     : 8 Sample Multiplier: 1

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Quant Time: Mar 03 04:56:56 2023
Quant Method : I:\MS21\Methods\F21011723.M
Quant Title : EPA TO-15
Quant Update : Wed Jan 18 06:49:07 2023
Response via : Initial Calibration



Data File: I:\MS09\DATA\2023_03\06\03062332.D

Sample : AS01482_30699

Acq On : 6 Mar 2023 23:17

Misc : S35-02212305

ALS Vial : 8 Sample Multiplier: 1

Inst : MS09

Operator: SC

KM 3/7/23

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

Quant Time: Mar 07 08:34:41 2023

Quant Method : I:\MS09\METHODS\R9022723.M

QLast Update : Tue Feb 28 08:30:18 2023

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.20	130	182650	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	9.26	114	806731	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.80	54	175842	12.500	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.96	65	380262	12.297	ng	-0.04
Spiked Amount	12.500	Range	70 - 130	Recovery	=	98.40%
57) Toluene-d8 (SS2)	12.39	98	945044	14.144	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	113.12%
73) Bromofluorobenzene (SS3)	16.79	174	298632	10.961	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	87.68%

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	0.00	85	0	N.D.		
4) Chloromethane	0.00	50	0	N.D.	d	
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	4.32	45	1170	0.068	ng	80
11) Acetonitrile	4.48	41	59	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) Acetone	4.65	58	2433	0.185	ng	94
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) 2-Propanol (Isopropanol)	4.90	45	2148	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.		
19) Methylene Chloride	5.35	84	225	N.D.		
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	5.61	76	1186	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone (MEK)	0.00	72	0	N.D.		
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	0.00	57	0	N.D.		
32) Chloroform	0.00	83	0	N.D.		
34) Tetrahydrofuran (THF)	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	9.26	61	26238	No Calib	#	
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	8.87	78	1025	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	9.26	84	630	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File: I:\MS09\DATA\2023_03\06\03062332.D

Sample : AS01482_30699

Acq On : 6 Mar 2023 23:17

Misc : S35-02212305

ALS Vial : 8 Sample Multiplier: 1

Inst : MS09

Operator: SC

Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

Quant Time: Mar 07 08:34:41 2023

Quant Method : I:\MS09\METHODS\R9022723.M

QLast Update : Tue Feb 28 08:30:18 2023

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.52	91	448	N.D.		
59) 2-Hexanone	0.00	43	0	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	0.00	43	0	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	13.99	166	346	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	15.39	91	141	N.D.		
67) m- & p-Xylenes	15.65	91	222	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	0.00	91	0	N.D.		
71) n-Nonane	0.00	43	0	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	17.00	105	172	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	17.67	91	108	N.D.		
77) 3-Ethyltoluene	17.00	105	172	No Calib	#	
78) 4-Ethyltoluene	17.85	105	187	N.D.		
79) 1,3,5-Trimethylbenzene	17.85	105	187	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.00	105	172	No Calib	#	
82) 1,2,4-Trimethylbenzene	18.41	105	105	N.D.		
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
86) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
87) sec-Butylbenzene	18.72	105	329	N.D.		
88) 4-Isopropyltoluene (p-...	18.91	119	935	N.D.		
89) 1,2,3-Trimethylbenzene	17.00	105	172	No Calib	#	
90) 1,2-Dichlorobenzene	19.02	146	110	N.D.		
91) d-Limonene	0.00	68	0	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	0.00	128	0	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	0.00	119	0	N.D.		
100) n-Butylbenzene	0.00	91	0	N.D.		
101) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.		

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

Data File: I:\MS09\DATA\2023_03\06\03062332.D

Sample : AS01482_30699

Acq On : 6 Mar 2023 23:17

Misc : S35-02212305

ALS Vial : 8 Sample Multiplier: 1

Inst : MS09

Operator: SC

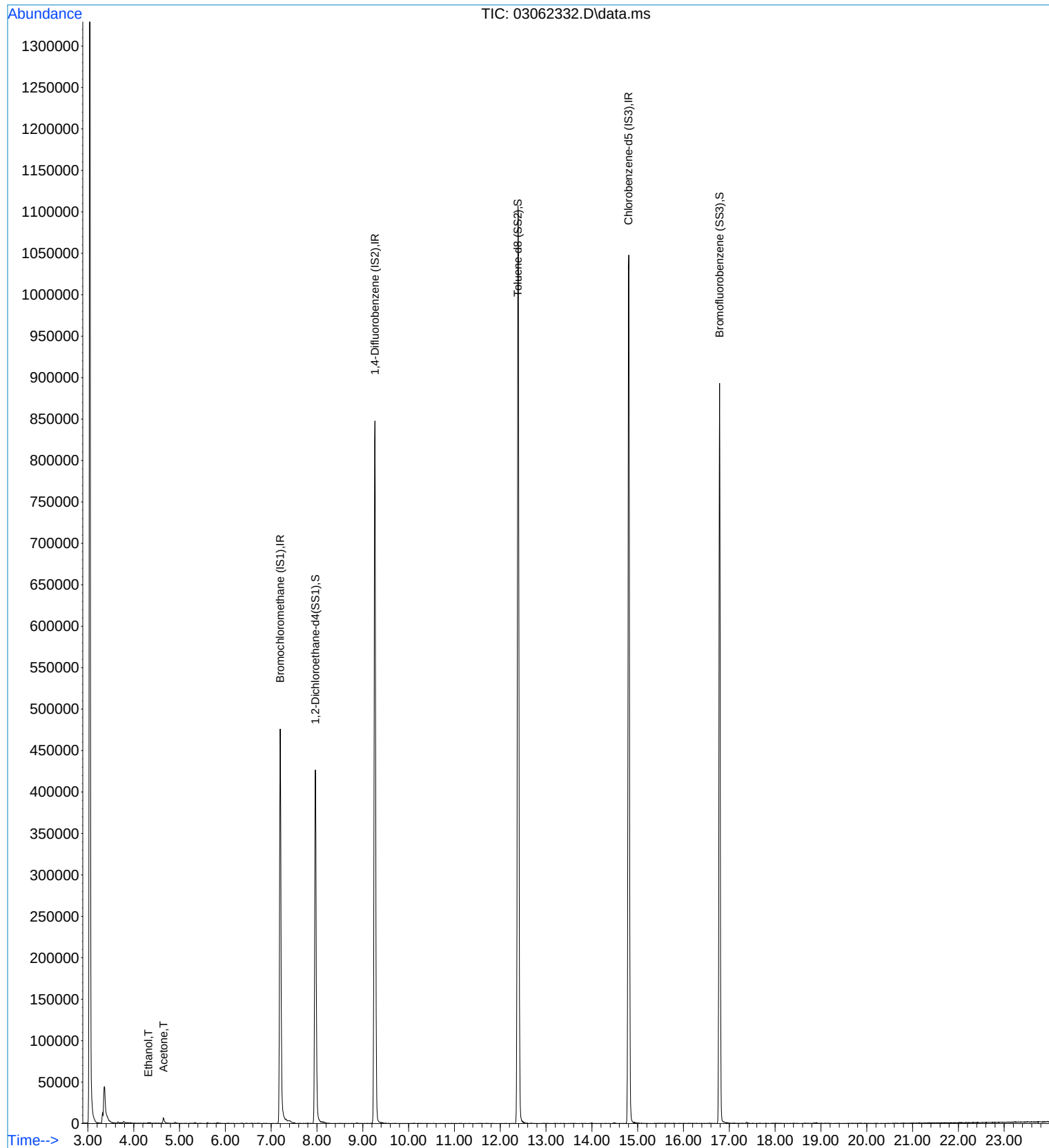
Quant Title : EPA T0-15 per SOP VOA-T015 (CASS T0-15/GC-MS)

Quant Time: Mar 07 08:34:41 2023

Quant Method : I:\MS09\METHODS\R9022723.M

QLast Update : Tue Feb 28 08:30:18 2023

Response via : Initial Calibration



Data Path : I:\MS26\Data\2023_02\27\
 Data File : 02272313.D
 Acq On : 27 Feb 2023 18:22
 Operator : KM
 Sample : AS01352 (Sig #1); AS01362 (Sig #2)
 Misc : LL + TICS (Sig #1); S35-02212302 (Sig #2)
 ALS Vial : 4 Sample Multiplier: 1

APL 2/28/23

Quant Time: Feb 28 09:39:03 2023
 Quant Method : I:\MS26\Methods\R26022223.M
 Quant Title : EPA T0-15
 QLast Update : Fri Feb 24 11:35:58 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.290	130	114040	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.358	114	526552	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.903	54	61918	1000.00	pg	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.058	65	223323	1386.15	pg	0.00
Spiked Amount 1000.000			Recovery	=	138.62%	
57) Toluene-d8 (SS2)	12.489	98	401744	968.23	pg	0.00
Spiked Amount 1000.000			Recovery	=	96.82%	
74) Bromofluorobenzene (SS3)	16.883	174	145070	1025.08	pg	0.00
Spiked Amount 1000.000			Recovery	=	102.51%	
Target Compounds						Qvalue
3] * Dichlorodifluoromethane	3.486	85	1690	30.153	pg	98
5] * 1,2-Dichloro-1,1,2,2...	3.682	85	100	2.664	pg	# 42
6] * Vinyl Chloride	3.806	62	59	1.979	pg	# 37
7] * 1,3-Butadiene	3.879	54	80	4.231	pg	83
10] * Ethanol	4.288	45	3228	349.934	pg	100
12] * Acrolein	4.573	56	605	51.491	pg	97
13] * Acetone	4.683	58	3929	251.936	pg	93
14] * Trichlorofluoromethane	4.833	101	877	17.498	pg	93
15] * 2-Propanol (Isopropa...	4.833	45	947	38.900	pg	# 87
16] * Acrylonitrile	5.023	53	4477	186.781	pg	99
17] * 1,1-Dichloroethene	5.331	96	83	3.531	pg	98
18] tert-Butanol	5.325	59	187	7.339	pg	# 52
19] * Methylene Chloride	5.414	84	1031	32.085	pg	99
20] * 3-Chloro-1-propene (...)	5.508	41	183	9.725	pg	# 75
21] * Trichlorotrifluoroet...	5.652	151	219	8.799	pg	95
22] * Carbon Disulfide	5.685	76	4275	47.795	pg	98
23] * trans-1,2-Dichloroet...	6.200	96	453	17.531	pg	98
24] * 1,1-Dichloroethane	6.366	63	128	3.300	pg	# 42
25] * Methyl tert-Butyl Ether	6.420	73	53	1.047	pg	# 58
26] * Vinyl Acetate	6.478	86	339	77.111	pg	95
27] * 2-Butanone (MEK)	6.719	72	769	58.659	pg	81
28] * cis-1,2-Dichloroethene	7.130	96	486	19.031	pg	95
30] * Ethyl Acetate	7.331	61	1219	171.843	pg	94
31] * n-Hexane	7.355	57	238	8.761	pg	# 69
32] * Chloroform	7.408	83	340	7.236	pg	96
34] * Tetrahydrofuran	7.842	71	159	16.052	pg	87
36] * 1,2-Dichloroethane	8.163	62	770	24.531	pg	97
38] * 1,1,1-Trichloroethane	8.462	97	263	4.772	pg	# 81
39] * Benzene	8.956	78	1800	17.107	pg	97
42] * Carbon Tetrachloride	9.143	117	423	9.177	pg	85
43] * Cyclohexane	9.302	84	305	7.773	pg	# 9
45] * 1,2-Dichloropropane	9.911	63	95	3.054	pg	# 29
46] * Bromodichloromethane	10.128	83	349	7.539	pg	91
47] * Trichloroethene	10.207	130	545	14.288	pg	95
48] * 1,4-Dioxane	10.201	88	212	13.536	pg	90
49] Isooctane	10.293	56	87	3.221	pg	91
50] * Methyl Methacrylate	10.464	69	367	17.370	pg	96
52] * cis-1,3-Dichloropropene	11.322	75	764	20.148	pg	98
53] * 4-Methyl-2-pentanone	11.399	58	105	6.880	pg	92
54] * trans-1,3-Dichloropr...	12.008	75	1762	50.174	pg	96
55] * 1,1,2-Trichloroethane	12.235	97	281	8.243	pg	94
58] * Toluene	12.622	91	1945	23.332	pg	99
59] * 2-Hexanone	12.989	58	452	38.646	pg	93
60] * Dibromochloromethane	13.133	129	519	17.623	pg	98

Data Path : I:\MS26\Data\2023_02\27\
 Data File : 02272313.D
 Acq On : 27 Feb 2023 18:22
 Operator : KM
 Sample : AS01352 (Sig #1); AS01362 (Sig #2)
 Misc : LL + TICS (Sig #1); S35-02212302 (Sig #2)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 28 09:39:03 2023
 Quant Method : I:\MS26\Methods\R26022223.M
 Quant Title : EPA T0-15
 QLast Update : Fri Feb 24 11:35:58 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
61]	* 1,2-Dibromoethane	13.456	107	1184	41.439	pg	94
62]	* n-Butyl Acetate	13.842	56	191	21.198	pg	# 39
64]	* Tetrachloroethene	14.095	166	290	9.420	pg	97
65]	* Chlorobenzene	14.955	112	1647	24.891	pg	90
66]	* Ethylbenzene	15.468	91	945	11.182	pg	100
67]	* m- & p-Xylenes	15.695	91	2113	32.661	pg	98
68]	* Bromoform	15.733	173	530	23.318	pg	100
70]	* Styrene	16.159	104	1254	28.147	pg	93
71]	* o-Xylene	16.303	91	811	12.747	pg	97
72]	* n-Nonane	16.670	57	76	3.633	pg	# 27
73]	* 1,1,2,2-Tetrachloroe...	16.270	83	524	11.625	pg	92
75]	* Cumene	17.092	105	328	3.958	pg	95
76]	* alpha-Pinene	17.611	93	85	2.243	pg	# 45
77]	* n-Propylbenzene	17.776	91	815	8.672	pg	100
78]	3-Ethyltoluene	17.092	105	328	3.922	pg	89
79]	* 4-Ethyltoluene	17.983	105	737	10.700	pg	97
80]	* 1,3,5-Trimethylbenzene	18.098	105	448	7.601	pg	95
82]	2-Ethyltoluene	18.636	105	777	13.868	pg	# 52
83]	tert-Butylbenzene	19.211	134	157	9.829	pg	94
84]	* 1,2,4-Trimethylbenzene	18.636	105	777	13.481	pg	92
85]	* Benzyl Chloride	18.785	126	1094	133.355	pg	91
86]	* 1,3-Dichlorobenzene	18.896	146	3167	71.113	pg	97
87]	* 1,4-Dichlorobenzene	19.333	146	3337	69.998	pg	100
89]	sec-Butylbenzene	18.990	105	462	5.623	pg	98
90]	1,2,3-Trimethylbenzene	17.983	105	737	9.886	pg	# 88
91]	p-Isopropyltoluene	19.211	119	605	10.258	pg	98
92]	* 1,2-Dichlorobenzene	19.333	146	3337	70.665	pg	100
93]	* D-Limonene	19.394	68	439	26.787	pg	99
94]	n-Butylbenzene	19.749	134	198	16.275	pg	89
95]	* 1,2-Dibromo-3-chloro...	19.891	157	1189	80.977	pg	93
97]	* 1,2,4-Trichlorobenzene	21.461	180	4999	312.534	pg	99
98]	* Naphthalene	21.584	128	8130	233.662	pg	98
100]	* Hexachlorobutadiene	22.018	225	886	33.237	pg	96

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

Data Path : I:\MS26\Data\2023_02\27\
Data File : 02272313.D
Acq On : 27 Feb 2023 18:22
Operator : KM
Sample : AS01352 (Sig #1); AS01362 (Sig #2)
Misc : LL + TICS (Sig #1); S35-02212302 (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 28 09:39:03 2023
Quant Method : I:\MS26\Methods\R26022223.M
Quant Title : EPA T0-15
QLast Update : Fri Feb 24 11:35:58 2023
Response via : Initial Calibration

