

APRIL 2022 and MARCH 2023 SOIL VAPOR
INTRUSION SAMPLING REPORT

**Armonk Private Wells
Site No. 3-60-005
Armonk, New York**

Prepared For:



**New York State Department of
Environmental Conservation**

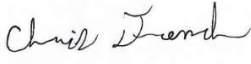


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1. Introduction

This report has been prepared by AECOM USA, Inc. (AECOM) on behalf of the New York State Department of Environmental Conservation (NYSDEC) to document the April 2022 Soil Vapor Investigation at the Armonk Private Wells Superfund Site (herein referred to as the “Site”). The Site is located in the central business district of the Hamlet of Armonk, Town of North Castle, County of Westchester, New York. This report presents the findings, conclusions and recommendations from a soil vapor intrusion investigation performed at the Site in general accordance with the AECOM Soil Vapor Intrusion Sampling Scope of Work approved by the New York State Department of Health (NYSDOH) on April 2, 2021 and finalized on April 28, 2021 (AECOM, 2021).

1.1 Site History

The Armonk Private Wells Site is located in a mixed commercial and residential area in the vicinity of Main Street, Maple Avenue and Bedford Road in the Town of Armonk, Westchester County, New York. This area is referred to as Armonk Square. The site location is provided on **Figure 1-1** and a site features map is provided as **Figure 1-2**.

The Site was identified after the Westchester County Department of Health (WCDOH) sampled private and commercial water supply wells in the vicinity of past and present dry-cleaning establishments in 1979, several of which contained halogenated solvents, primarily tetrachloroethene (PCE) and its breakdown products, trichloroethene (TCE) and total 1,2-dichloroethene (DCE).

In the early 1990s, the contents of the septic tanks and drywells, the primary sources of contamination, were removed or closed in-place and the US EPA completed construction of a municipal water supply system to which all affected residences and businesses were connected. The groundwater extraction and treatment system (GWETS) has operated from 1998 to 2002 and from 2005 to the present. Additionally, a soil vapor extraction (SVE) system was operated for less than one year. In 2001, the Site was reclassified as Class 4, requiring site management. An NYSDEC contractor, LaBella Associates (f/k/a Aztech Environmental Technologies) completes regularly scheduled maintenance and sampling of the GWETS, while AECOM performs periodic sampling of the monitoring well network and other required sampling.

The geology underlying the Site generally consists of fractured gneiss bedrock with widely variable depths of glacial soils and alluvium ranging from 10 feet to greater than 125 feet thick. The glacial soils consist mainly of sand, but also contain a varying amount of silt and gravel. Groundwater flow in both the unconfined overburden and bedrock aquifers is naturally toward the east and southeast, with estimated velocities ranging from 5×10^{-4} to 2 feet per day. The GWETS has modified local groundwater flow on-site by drawing groundwater toward the extraction wells. Based on historical groundwater elevation data, a groundwater divide is present along Maple Avenue. The Wampus River appears to be the localized discharge area for shallow groundwater.

1.2 Previous Site-Related Soil Vapor Investigations

Per the Site Management Plan (SMP; AECOM, 2014), soil gas sampling conducted early in the remedial investigation/feasibility study indicated that elevated levels of volatile organic compounds (VOCs) were found in soil vapors in the vicinity of the leach fields of all three dry cleaners. As a result, a soil vapor extraction (SVE) system was reportedly installed at the Site in 1998 to lower the concentrations of contaminants to values protective of human health. No documentation is available regarding this effort; however, the June 2006 Preliminary Soil Vapor Investigation Summary Report (NYSDOH and NYSDEC, 2006) indicates that it was installed and operated until VOC soil gas concentrations diminished.

Additionally, a soil vapor investigation was completed at on-site and off-site locations in Fall 2005 (NYSDOH/NYSDEC, 2006). Six shallow soil vapor samples were collected from 6 to 8 feet below ground surface (bgs) at locations selected by the NYSDEC and NYSDOH to determine the extent of vapor phase contaminants present within the investigation area. Groundwater samples were also collected from 21 temporary and permanent well locations in the vicinity of the Site. The

Site was separated into three areas for the evaluation: (1) on-site area; (2) north of the on-site area; and (3) south of the on-site area.

Four vapor sampling points were installed on-site (V-1, V-4, V-5, and V-6). PCE concentrations ranged from non-detect to 6 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). TCE concentrations ranged from non-detect to $2.2 \mu\text{g}/\text{m}^3$. Total DCE was non-detect at all four sample locations. Additionally, benzene, toluene, ethylbenzene, and xylenes (BTEX) were reported in all samples at concentrations ranging from 1 to $60 \mu\text{g}/\text{m}^3$.

One vapor sampling point was installed north of the Site (V-2) and one sampling point was installed south of the Site (V-3) near the well (AW-8) historically impacted by petroleum compounds. Sample V-2S-Dupe exhibited elevated concentrations of VOCs as follows: PCE at $1,700 \mu\text{g}/\text{m}^3$, TCE at $97 \mu\text{g}/\text{m}^3$, and total DCE at $56 \mu\text{g}/\text{m}^3$. Additionally, BTEX compounds were reported at concentrations ranging from 3.8 to $51.5 \mu\text{g}/\text{m}^3$. Sample V-3S exhibited a PCE concentration of $2.2 \mu\text{g}/\text{m}^3$, and BTEX compounds were detected at a range of 6.9 to $83 \mu\text{g}/\text{m}^3$. No methyl tert-butyl ether (MTBE) was reported in either sample.

The NYSDEC generated the following conclusions related to the soil vapor investigation:

- Overall, the 2005 soil vapor sampling results indicated lower concentrations of VOCs in both on-site and off-site areas than were reported during the 1988 Remedial Investigation (RI). This reduction is likely a result of various remedial efforts and natural attenuation.
- Only one sample, V-2S, exhibited elevated VOC concentrations. Since this location is found off-site, the NYSDEC determined that the Site was not the source of contamination. The NYSDEC indicated that the off-site source and the potential for exposures would be addressed under another remedial program/project.
- Despite the low VOC soil gas concentrations, the NYSDEC recommended that future building development at the Site include sub-slab depressurization piping so that the potential for soil vapor intrusion can be assessed after building completion. If sampling indicates a potential SVI issue from vapors accumulating beneath the foundation/concrete slab, then the system will require activation.

1.3 Remedial Action Implementation

Redevelopment of the Site in 2012 included the construction of three new buildings on the property. Each building was equipped with a liquid boot membrane and a robust collection of passive polyvinyl chloride (PVC) vent laterals beneath the basement to reduce the potential for exposure to indoor impacts via the soil vapor intrusion pathway. This passive ventilation system is not a sub-slab depressurization system in the traditional sense (i.e., does not generate any vacuum with an active blower) and does not require a New York State Mitigation System Installation Record to be filed or the production of any New York State Periodic Operations Visit Forms. Minimum maintenance must be performed by the property owner and/or tenants.

1.4 Operation and Maintenance

The systems located within Buildings 1, 2, and 3 are passive ventilation systems requiring little to no maintenance or upkeep. Furthermore, it has been the responsibility of the property owner or tenants to perform this maintenance. As such, the NYSDEC has not performed maintenance or monitoring of the passive systems.

2. Vapor Intrusion Investigations

The following section details the vapor intrusion investigations performed by NYSDEC in April 2022 and March 2023. The purpose of these sampling events was to:

1. Evaluate the concentrations of VOCs in indoor air and/or sub-slab vapor for these buildings in the Armonk Square Complex;
2. Collect an outdoor air sample in a secure location to evaluate the presence of VOCs in the outdoor air on-site; and
3. Use the data collected to determine whether the vapor barriers and passive ventilation systems installed beneath the buildings are effective and whether follow-up sampling or remedial action may be necessary in any of the locations.

April 2022 Sampling Event

Indoor air samples were collected from Buildings 1, 2 and 3 (see **Figures 2-1 through 2-3**) during the April 2022 sampling event. Indoor air samples were biased toward the area(s) mostly likely to have the highest concentrations of contaminants of concern and were co-located with port samples from the passive ventilation system or sub-slab samples when possible.

Samples of sub-slab vapor were collected from the passive ventilation systems in Buildings 1 and 2 by way of sampling ports. The sample ports were located on the vertical discharge lines (PVC piping) of the ventilation system. The ports consisted of holes drilled in the exhaust pipe which were threaded for a swage lock fitting. Swage lock tubing was secured to the exhaust pipe with this fitting. Another swage lock fitting was attached to the end of the swage lock tubing for attachment to a SUMMA canister. When not in use, the swage lock tubing has a rubber stopper placed over the opening to seal the port. In Building 3, a sub-slab sample could not be collected since a sampling port could not be located and installation of a point would puncture the sub-floor vapor barrier (see **Figures 2-1 through 2-3**). In Buildings 1 and 2, samples were collected from ports installed on passive soil vapor ventilation system piping and not from points installed within the slab itself. Since VOCs in the soil vapor ventilation system originate from the sub-slab, samples collected from the ports are considered to be representative of vapors beneath the sub-slab.

In addition to the indoor air and passive ventilation system port samples, one outdoor ambient air sample was collected concurrently to determine background levels and the extent to which outdoor sources may be influencing indoor air quality within the sampling area. **Figure 2-1** provides the location of the outdoor air sample, which was placed upwind of the buildings. The weather conditions at the time of the sampling event, including the prevailing wind direction at the time of the outdoor canister placement, are included in **Appendix A**.

March 2023 Sampling Event

Prior to the March 2023 SVI sampling event, a geophysical investigation was performed by an AECOM subcontractor, Advanced Geological Services (AGS), on March 6, 2023. The purpose of the investigation was to pre-clear the proposed vapor pin installation locations in the Building 4 basement foundations in order to ensure no subsurface utilities or other obstructions would be encountered during drilling of the sub-slab sampling points. The report prepared by AGS is provided as **Appendix B**.

Indoor air samples were collected from Buildings 1, 2, 3 and 4 (**Figures 2-1 through 2-4**) during the March 2023 sampling event. Indoor air samples were biased toward the area(s) mostly likely to have the highest concentrations of contaminants of concern and were co-located with port samples from the passive ventilation system or sub-slab samples when possible.

Samples of sub-slab vapor were collected from the passive ventilation systems in Buildings 1 and 2 by way of sampling ports, and from installed vapor pin points in Building 4. The sample ports were located on the vertical discharge lines

(PVC piping) of the ventilation system. The ports consisted of holes drilled in the exhaust pipe which were threaded for a swage lock fitting. Swage lock tubing was secured to the exhaust pipe with this fitting. Another swage lock fitting was attached to the end of the swage lock tubing for attachment to a SUMMA canister. When not in use, the swage lock tubing has a rubber stopper placed over the opening to seal the port. In Building 3, a sub-slab sample could not be collected since a sampling port could not be located and installation of a point would puncture the sub-floor vapor barrier (see **Figures 2-1 through 2-3**). In Buildings 1 and 2, samples were collected from ports installed on passive soil vapor ventilation system piping and not from points installed within the slab itself. Since VOCs in the soil vapor ventilation system originate from the sub-slab, samples collected from the ports are considered to be representative of vapors beneath the sub-slab. Building 4 had vapor sampling points installed prior to the March 2023 sampling event (**Figure 2-4**). This was possible because it is an older building with no sub-floor vapor barrier.

In addition to the indoor air and sub-slab vapor/passive ventilation system port samples, one outdoor ambient air sample was collected concurrently to determine background levels and the extent to which outdoor sources may be influencing indoor air quality within the sampling area. **Figure 2-1** provides the location of the outdoor air sample, which was placed upwind of the buildings. The weather conditions at the time of the sampling event, including the prevailing wind direction at the time of the outdoor canister placement, are included in **Appendix A**.

2.1 Sample Collection Methods

2.1.1 April 2022 Sampling Event

The April 2022 monitoring event was conducted in general accordance with the Soil Vapor Intrusion Sampling Scope of Work submitted to the NYSDEC on April 28, 2021, and in accordance with the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYSDOH October 2006; updated September 2013 and August 2015). It should be noted that in order to maintain the integrity of the passive ventilation system which includes a liquid boot membrane, no vapor points were installed in the sub-slab during the monitoring event for Buildings 1, 2 or 3. Instead, samples were collected from pre-existing ports (discussed in detail in the above section) installed in the vapor collection exhaust pipes in Buildings 1 and 2. Building 3 is not equipped with sampling ports for the sub-slab ventilation system.

A New York State Department of Health Indoor Air Quality Questionnaire and Building Inventory form was completed for each building prior to sample collection. A photoionization detector (PID) was used to record VOC readings in parts per billion (ppb) at each chemical inventory location. Copies of the completed questionnaires are provided in **Appendix C**. Questionnaire findings did not indicate the presence of substances in the buildings that would impact the air sampling results; generally, low volumes of household substances were present. Air samples are collected when HVAC systems are active because their operation may cause negative pressures which can draw impacted vapors into the building. At the time of sampling, heating, ventilation, and air conditioning (HVAC) systems were in use in occupied sections of Buildings 1, 2, and 3; however, whether all windows and doors in each building remained closed during the sampling event could not be verified.

Sampling log sheets indicating the canister/regulator identifications, sampling start and stop times and vacuum readings of the canisters before and after sampling are included in **Appendix D**. A PID was used to measure VOC readings in ambient air at each sample location. Results of these readings are provided on the NYSDOH Indoor Air Quality Questionnaires in **Appendix C**. All samples were collected in a certified pre-evacuated 6-liter Summa® canister with an 8-hour regulator provided by the laboratory. Sample canisters were set up in the locations displayed on **Figures 2-1, 2-2 and 2-3** and allowed to collect the samples for an approximately 8-hour period. Indoor air sample canisters were set up with flexible tubing mechanically attached to the laboratory-provided flow regulator (compression fitting). The tubing was then attached to a stand that held the end of the tubing within the breathing zone. Port and sub-slab samples were collected by attaching flexible tubing to the sample canister and attaching tubing to the designated sample collection port or vapor pin point. After the sample collection period, the sample canisters were retrieved, closed, and packaged for shipment to ALS Laboratory in Simi Valley, California for analysis of targeted VOCs via EPA method TO-15 SIM.

2.1.2 March 2023 Sampling Event

The March 2023 monitoring event was conducted in general accordance with the Soil Vapor Intrusion Sampling Scope of Work submitted to the NYSDEC on April 28, 2021, and in accordance with the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYSDOH October 2006; updated September 2013 and August 2015). It should be noted that in order to maintain the integrity of the passive ventilation system which includes a liquid boot membrane, no vapor points were installed in the sub-slab during the monitoring event for Buildings 1, 2 or 3. Instead, samples were collected from pre-existing ports (discussed in detail in the above section) installed in the vapor collection exhaust pipes in Buildings 1 and 2. Building 3 is not equipped with sampling ports for the sub-slab ventilation system. Sub-slab samples collected from Building 4 were obtained via two vapor points installed in March 2023.

At the time of sampling, HVAC systems were in use in occupied sections of Buildings 1, 2, 3 and 4; however, whether all windows and doors in each building remained closed during the sampling event could not be verified. Sampling log sheets indicating the canister/regulator identifications, sampling start and stop times and vacuum readings of the canisters before and after sampling are included in **Appendix D**. A PID was used to measure VOC readings in ambient air at each sample location. Results of these readings are provided on the NYSDOH Indoor Air Quality Questionnaires in **Appendix C**. Due to an unidentified error with the PID during the March 2023 chemical inventory, no detections of VOCs were obtained. We believe the nature of the error led to artificially low (non-detect) readings.

All samples were collected in a certified pre-evacuated 6-liter Summa® canister with an 8-hour regulator provided by the laboratory. Sample canisters were set up in the locations displayed on **Figures 2-1, 2-2, 2-3 and 2-4** and allowed to collect the samples for an approximately 8-hour period. Indoor air sample canisters were set up with flexible tubing mechanically attached to the laboratory-provided flow regulator (compression fitting). The tubing was then attached to a stand that held the end of the tubing within the breathing zone. Port and sub-slab samples were collected by attaching flexible tubing to the sample canister and attaching tubing to the designated sample collection port or vapor pin point. After the sample collection period, the sample canisters were retrieved, closed, and packaged for shipment to ALS Laboratory in Simi Valley, California for analysis of targeted VOCs via EPA method TO-15 SIM.

Refer to Section 2.1.1 for additional information regarding sampling procedures.

2.2 Air Sampling Results

Laboratory results for the indoor air, sub-slab/passive ventilation system port and outdoor air samples are presented in **Table 2-1**. The laboratory reports were validated by a third-party chemist and full data usability summary reports (DUSRs) were prepared. The DUSRs, included as **Appendix E**, indicated that all data points were usable without qualification, and no data points were rejected. The full laboratory reports are provided as **Appendix F**.

Table 2-2 displays the April 2022 and March 2023 indoor air and sub-slab/passive ventilation system port vapor sampling results in comparison to the May 2017 New York State Department of Health Soil Vapor/Indoor Air Matrices for soil vapor intrusion evaluation (NYSDOH Decision Matrix), **Appendix G**. Based on a comparison to the NYSDOH Decision Matrix, further monitoring is required at Building 1. No further monitoring or mitigation is required for Buildings 2 and 4. There is not enough data to use the Decision Matrix for Building 3 due to the absence of passive ventilation system sampling ports for the building. The results of the soil vapor intrusion evaluations, which were performed on April 7, 2022 and March 14, 2023, are summarized below.

- **Building 1:**
 - During the April 2022 event, PID readings at the indoor air sample locations ranged from 0-135 ppb and the highest reading was observed in the basement workshop at 906 ppb where chemicals were stored. No PID readings above background (0.0 ppb) were recorded during the 2023 sampling event. Laboratory reported concentrations of compounds of concern (carbon tetrachloride, 1,1,1-trichloroethane, tetrachloroethene, 1,1-dichloroethene, cis-1,2-dichloroethene, methylene chloride, vinyl chloride and trichloroethene) ranged from non-detect (1,1-dichloroethene and vinyl chloride) to 110 µg/m³ (tetrachloroethene). The analyte with the highest reported indoor air concentrations was tetrachloroethene at 4.9 µg/m³ (April 2022) and 3.5 µg/m³ (March 2023), respectively. The analyte with the highest reported sub slab (SS1) concentrations was also Tetrachloroethene at 88 µg/m³ (April 2022)

and 110 $\mu\text{g}/\text{m}^3$ (March 2023), respectively. From April of 2022 to March of 2023 the only significant change in concentrations was an increase in tetrachloroethene from 88 $\mu\text{g}/\text{m}^3$ to 110 $\mu\text{g}/\text{m}^3$ in the samples collected from the sub slab at SS1. Based on a comparison to the NYSDOH Decision Matrix, reported concentrations of sub-slab vapors and indoor air were below action limits for the April 2022 event. However, for the March 2023 event, reported concentrations of Tetrachloroethene indicate that monitoring should be continued. It should be noted that the indoor air concentration of Tetrachloroethene decreased from 4.9 $\mu\text{g}/\text{m}^3$ to 3.5 $\mu\text{g}/\text{m}^3$ between the 2022 and 2023 sampling events.

- **Building 2:**

- During the April 2022 sampling event, PID readings at the indoor air sample locations ranged from 63-98 ppb. The highest recorded reading was 1200 ppb in the basement in the chemical cabinet. No PID readings above background (0.0 ppb) were recorded during the 2023 sampling event. Concentrations of compounds of concern ranged from non-detect (1,1-dichloroethene and vinyl chloride) to 48 $\mu\text{g}/\text{m}^3$ (tetrachloroethene). The highest indoor air concentration from the April 2022 and March 2023 events was methylene chloride at 28 $\mu\text{g}/\text{m}^3$ (March 2023). The analyte with the highest reported sub slab concentrations was Tetrachloroethene reported at 48 $\mu\text{g}/\text{m}^3$ (April 2022) and 36 $\mu\text{g}/\text{m}^3$ (March 2023), respectively. Reported concentrations of Tetrachloroethene in the passive ventilation system port sample designated as Building-2-SS2 decreased from 48 $\mu\text{g}/\text{m}^3$ in April 2022 to 36 $\mu\text{g}/\text{m}^3$ in March 2023. Sub-slab concentrations in the sample collected at Building-2-SS1 decreased across all compounds of concern from April 2022 to March 2023. Based on a comparison to the NYSDOH Decision Matrix, reported concentrations of methylene chloride in the indoor air sample collected during the March 2023 event were reported at levels that require source identification and further monitoring. It should be noted that methylene chloride concentrations were non-detect in the passive ventilation system port samples. This is indicative of a methylene chloride source that is not originating from beneath the slab, but rather an indoor air source of methylene chloride unrelated to site contamination. NYSDOH recommends the source of the methylene chloride be identified and reasonable and practicable action be taken to address the indoor air impacts..

- **Building 3:**

- During the 2022 sampling event, the PID reading at the indoor air sample location was 17 ppb and the highest reading was recorded in the basement at 163 ppb in a chemical storage area. No PID readings above background (0.0 ppb) were recorded during the 2023 sampling event. There are no sub-slab sampling ports in Building 3. As a result, only an indoor air sample was collected and the NYSDOH Decision Matrix cannot be used to evaluate the laboratory results. However, it should be noted that Carbon Tetrachloride was the only compound reported in the indoor air sample collected in Building 3 for the April 2022 event, at a concentration of 0.38 $\mu\text{g}/\text{m}^3$. Similarly, carbon tetrachloride and methylene chloride were the only compounds detected in the March 2023 event at 0.51 $\mu\text{g}/\text{m}^3$ and 0.79 $\mu\text{g}/\text{m}^3$, respectively. Carbon tetrachloride was also detected in the outdoor air sample during both the April 2022 and March 2023 events, with reported concentrations of 0.42 $\mu\text{g}/\text{m}^3$ and 0.54 $\mu\text{g}/\text{m}^3$, respectively.

- **Building 4:**

- No samples were collected during the April 2022 sampling event. No PID readings above background (0.0 ppb) were recorded during the March 2023 sampling event. Concentrations of compounds of concern ranged from non-detect to 3.6 $\mu\text{g}/\text{m}^3$ (methylene chloride) in the March 2023 event. The analyte with the highest concentration reported in the indoor air sample was methylene chloride (3.6 $\mu\text{g}/\text{m}^3$), and the highest reported sub-slab analyte was tetrachloroethene at 3.3 $\mu\text{g}/\text{m}^3$. Based on a comparison to the NYSDOH decision matrix, concentrations of contaminants of concern were below action limits.

3. Summary and Recommendations

This report presents data from the April 2022 and March 2023 soil vapor intrusion investigations at the Armonk Private Wells Site. At the request of the NYSDEC and NYSDOH, the indoor air and sub-slab vapor was evaluated where possible to determine the presence and magnitude of VOCs in indoor air and beneath the sub-slab. Based upon this evaluation, the following actions are recommended:

- Building 1: The passive ventilation system should continue to be maintained by the property owner. Based on a comparison of the April 2022 and March 2023 data to the NYSDOH Decision Matrix, monitoring should continue.
- Building 2: The passive ventilation system should continue to be maintained by the property owner. Based on a comparison of the April 2022 and March 2023 data to the NYSDOH Decision Matrix, NYSDOH recommends the source of the methylene chloride be identified and reasonable and practicable action be taken to address the indoor air impacts.
- Building 3: The passive ventilation system should continue to be maintained by the property owner. As discussed in Section 2.1, a sub-slab sampling port is not present in Building 3 and therefore a passive ventilation system port sample could not be collected. As such, the NYSDOH Decision Matrix for comparison of indoor air and sub-slab sampling results could not be applied. While sub-slab concentrations are unknown, of the contaminants of concern, only carbon tetrachloride and methylene chloride were reported above laboratory method detection limits. Reported concentrations of both compounds were below $1 \mu\text{g}/\text{m}^3$.
- Building 4: Based on a comparison of the results from the March 2023 sampling event to the NYSDOH Decision Matrix, no further action is necessary at this time.

AECOM recommends that the passive ventilation systems remain in place and operational in Buildings 1, 2, and 3. In accordance with the NYSDOH Decision Matrix recommendations, a third round of SVI sampling should be conducted during the next heating season (2023-2024) at Building 1. Additionally, NYSDOH recommends the source of the methylene chloride be identified and reasonable and practicable action be taken to address the indoor air impacts.

4. References

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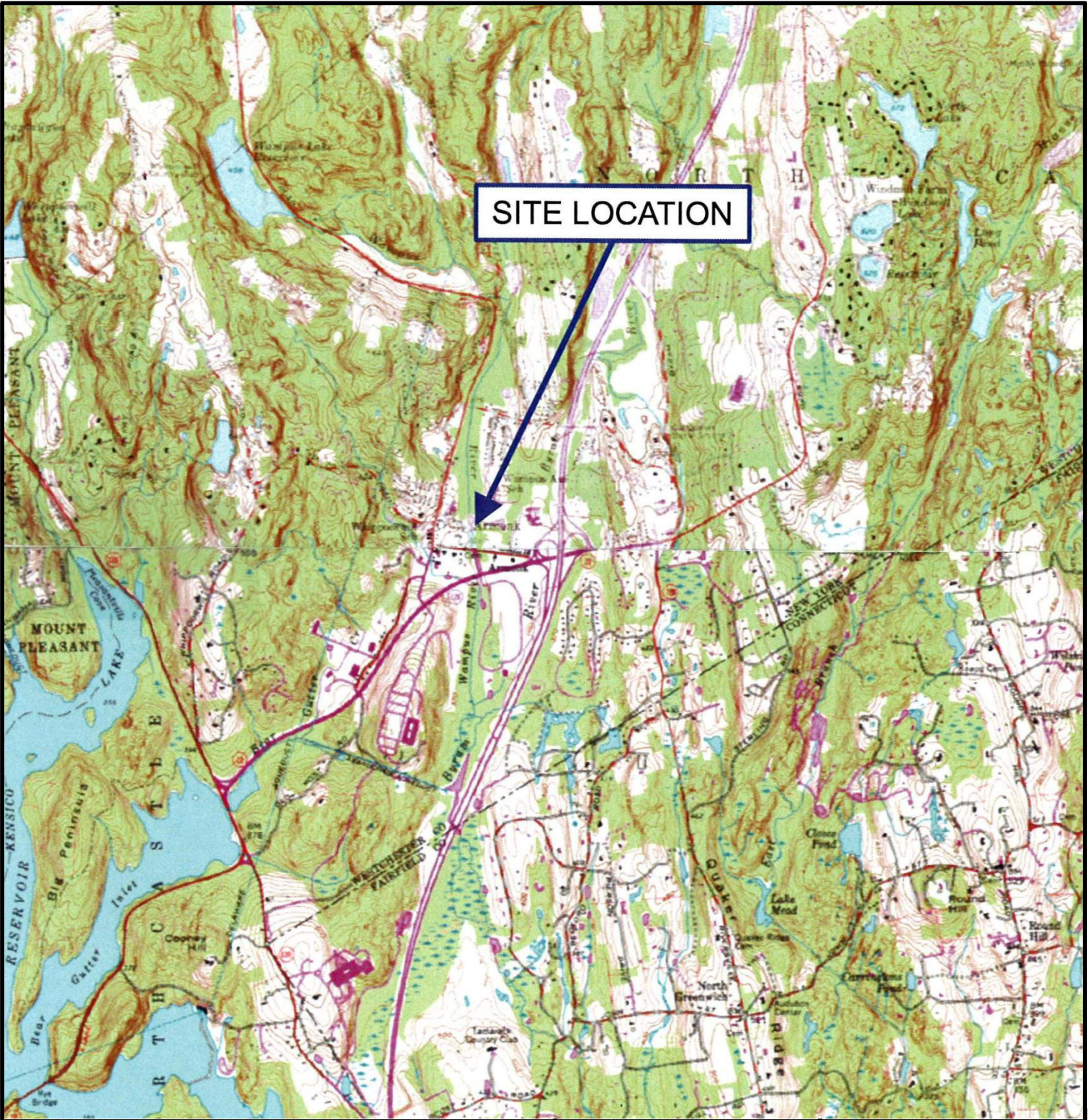
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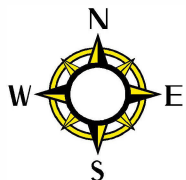
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Figures



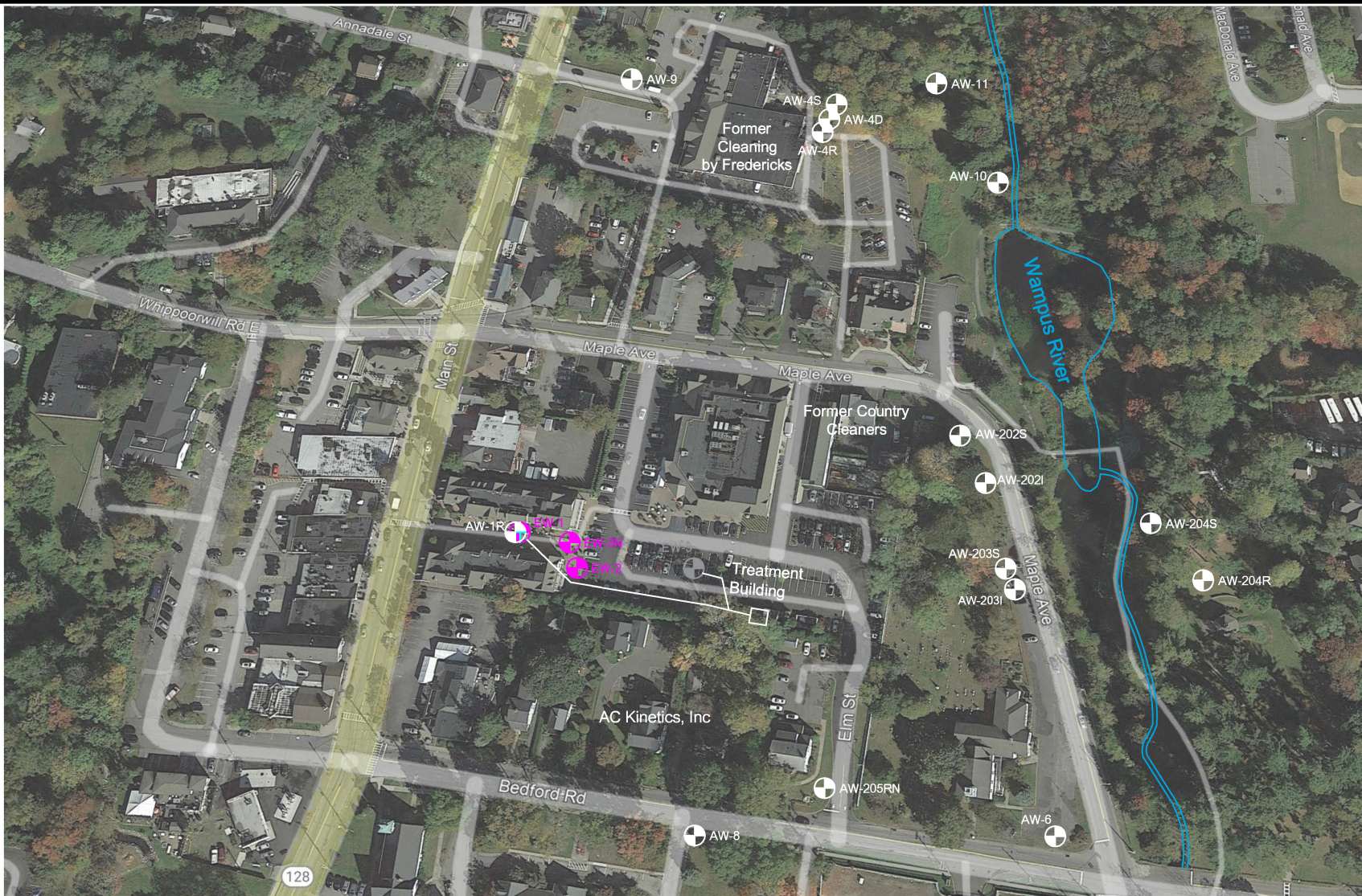
SITE LOCATION



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FIGURE 1-1
SITE LOCATION
 ARMONK PRIVATE WELLS
 MAPLE AVENUE
 NORTH CASTLE, NEW YORK

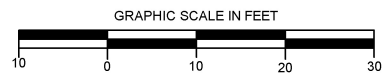


LEGEND:

- ⊕ EW-2 EXTRACTION WELL
- ⊕ AW-10 MONITORING WELL
- ⊕ EW-3 ABANDONED WELL

NOTES:

1. WELL LOCATIONS ARE APPROXIMATE.

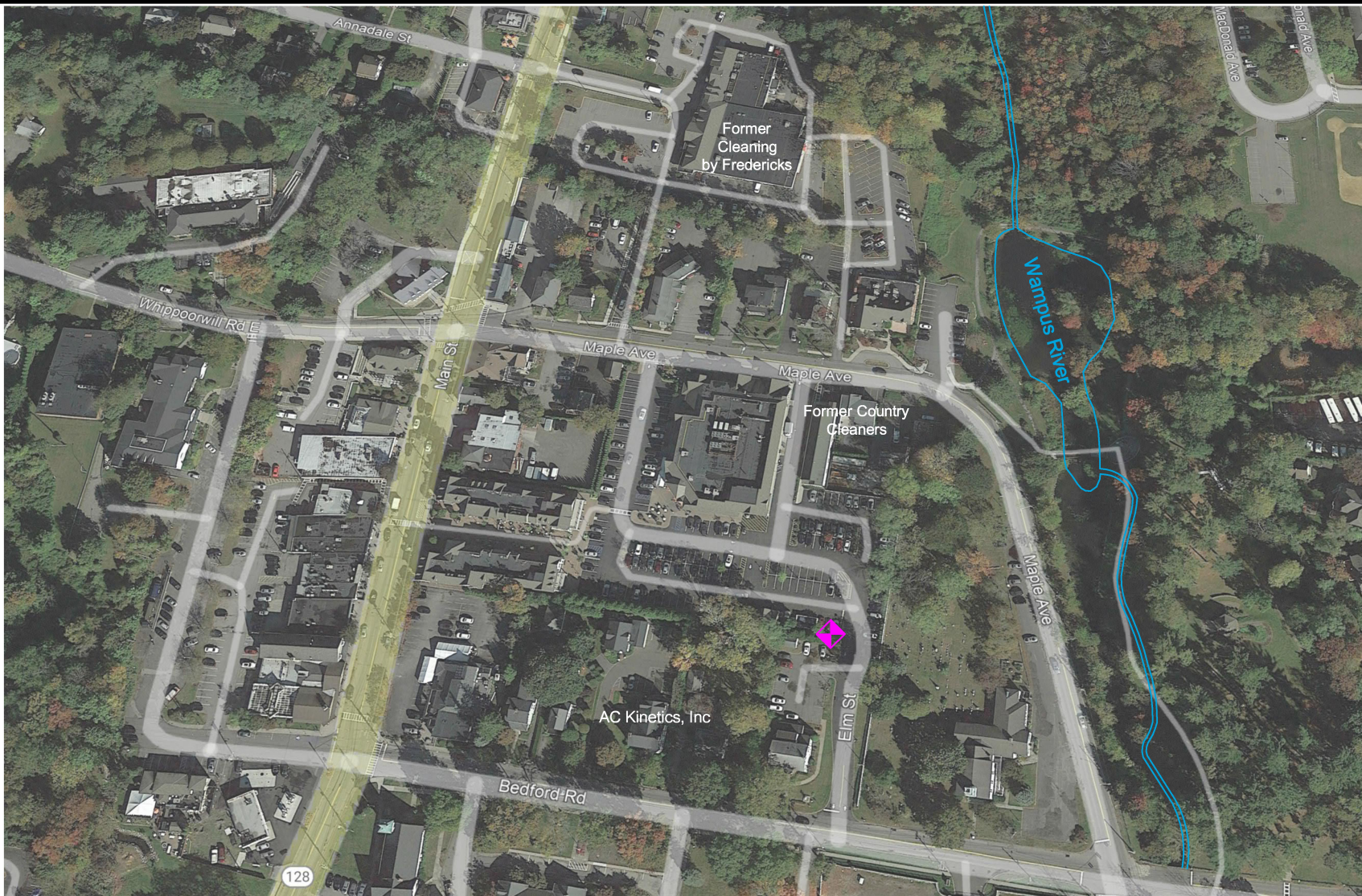


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**ARMONK PRIVATE WELLS
SITE NO. 360005
SITE FEATURES
MAP**

NYSDEC 625 Broadway, Albany NY, 12233

FILE NAME:	DRN	PROJECT NO.	DATE	FIGURE NO.
Site Features Map_2023.dwg	CLS	60628211	9/2022	1-2



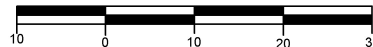
LEGEND:

 OUTDOOR AIR SAMPLE

NOTES:

1. OUTDOOR AIR SAMPLE LOCATION IS APPROXIMATE.

GRAPHIC SCALE IN FEET

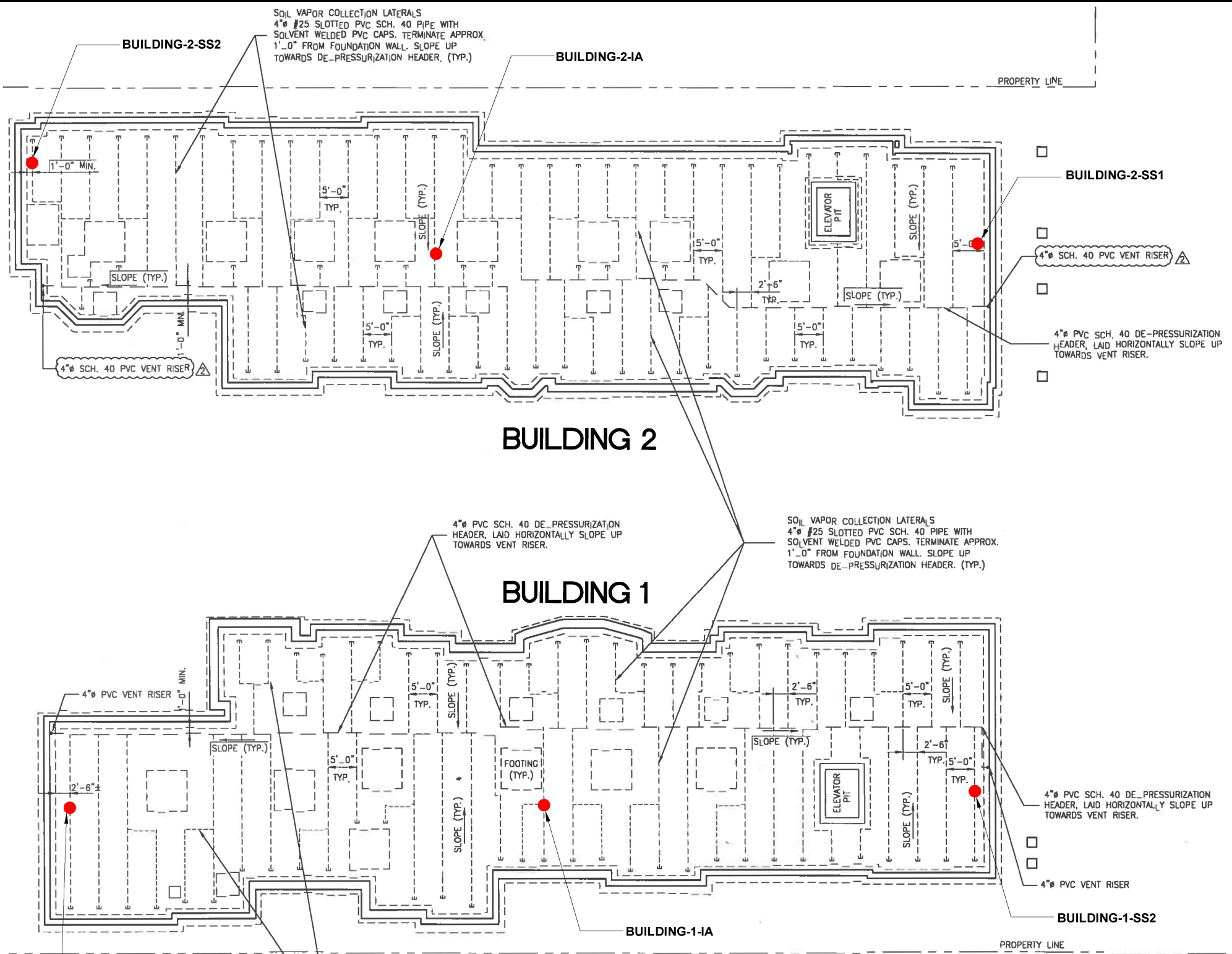


AECOM

**ARMONK PRIVATE WELLS
SITE NO. 360005
OUTDOOR AIR
SAMPLE LOCATION**

NYSDEC 625 Broadway, Albany NY, 12233

FILE NAME:	DRN	PROJECT NO.	DATE	FIGURE NO.
Outdoor Air Sample Location_2023.dwg	CLS	60628211	10/2022	2-1



NOTES:

1. THE VAPOR INTRUSION REMOVAL SYSTEM (VIRS) SHOWN HEREIN IS REFERENCED TO A FOUNDATION AND TUNNEL DESIGN PREPARED BY R.S. GRANOFF ARCHITECTS. THE FOUNDATION DESIGN IS SHOWN "AS RECEIVED" FROM GRANOFF AND HAS NOT BEEN SUBJECT TO TECHNICAL REVIEW BY GANNETT FLEMING. THE INTENT OF THE VIRS/FOUNDATION IS TO SHOW THE ENTIRE WORK AS A BASIS FOR PERMITS AND BIDS. AS SUCH, IT IS CONCEPTUAL AND IS NOT INTENDED TO SHOW CONSTRUCTABILITY OR CONVEY ASSURANCE OF ANY AS BUILT.
2. FOUNDATION LAYOUT BASED ON "OVERALL SITE BASEMENT PLAN", PREPARED BY R.S. GRANOFF ARCHITECTS P.C. DATED OCTOBER 30, 2006.
3. FOR BUILDING DIMENSIONS SEE STRUCTURAL/ARCHITECTURAL DRAWINGS.
4. ALL PVC JOINTS TO BE SOLVENT WELDED.
5. ALL PVC PIPING SHALL BE ASTM D1785.
6. REFER TO ARCHITECTURAL DRAWINGS FOR VAPOR PIPING ELEVATIONS.
7. THIS DRAWING IS AND SHALL REMAIN THE PROPERTY OF GANNETT FLEMING, INC.; REUSE ON PROJECT EXTENSIONS OR ANY OTHER PROJECT, OR ALTERATIONS OR ADDITIONS TO THIS PROJECT SHALL BE AT THE USER'S SOLE RISK, AND WITHOUT LIABILITY TO GANNETT FLEMING, INC. UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DOCUMENT IS A VIOLATION OF THE PROFESSIONAL LICENSE LAW.
8. NOT TO SCALE.

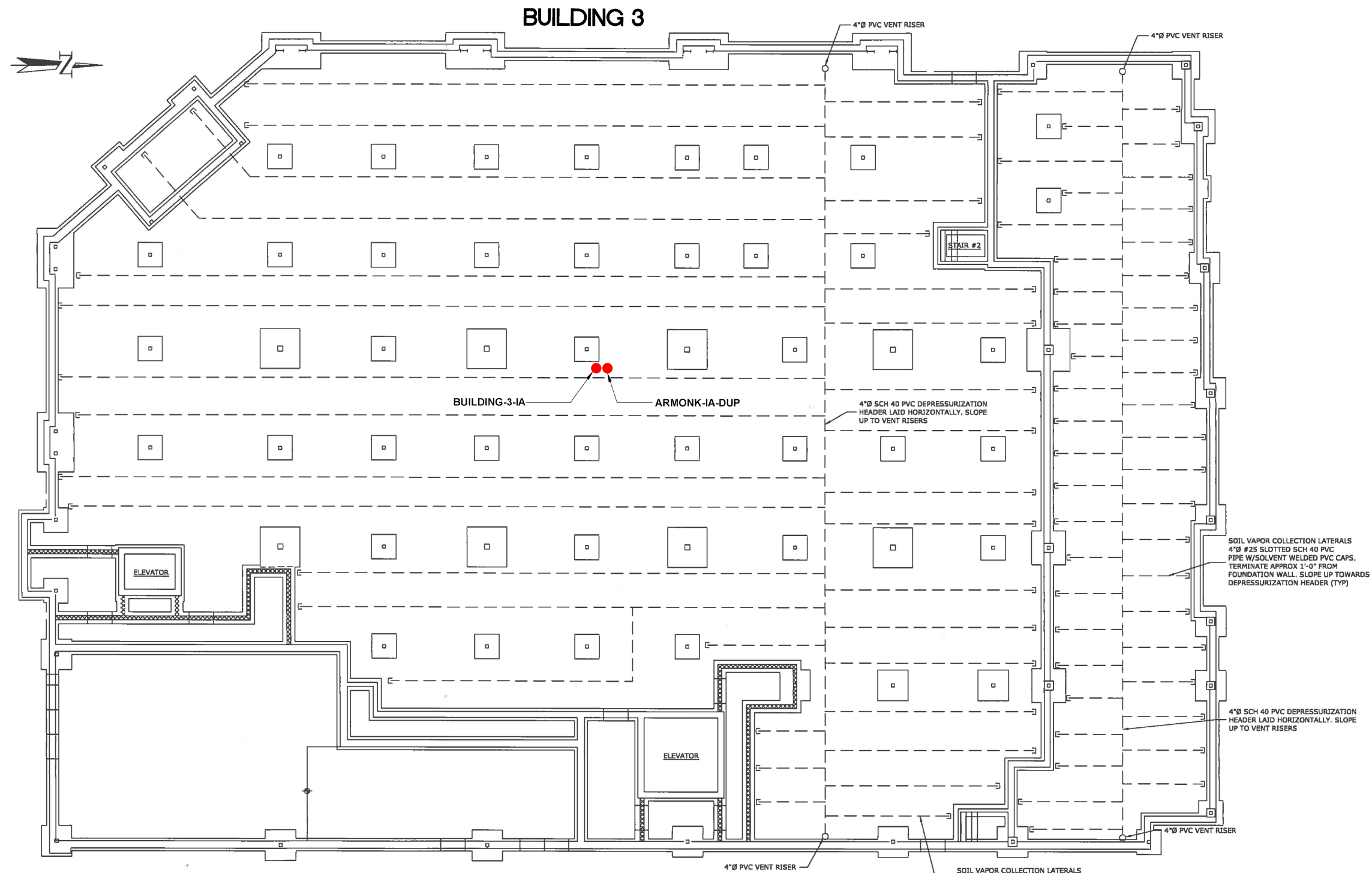
REFERENCE:

PROJECT: VAPOR INTRUSION REMOVAL SYSTEM
 PEMBROKE SQUARE
 ANTARES REAL ESTATE
 ARMONK, NEW YORK

TITLE: SUB-SLAB DE-PRESSURIZATION SYSTEM LAYOUT BUILDINGS A, B & C

SHEET NO: V101
 DRAWN BY: GANNETT FLEMING, INC.
 DATE: 12/2006
 REVISIONS: 02/2008 AND 09/2008

Title: SUB-SLAB DE-PRESSURIZATION SYSTEM LAYOUT BUILDINGS A, B & C					
Location: ARMONK PRIVATE RESIDENTIAL AND PUBLIC WATER SUPPLY WELLS SITE NO. 3-60-005					
Client: NYSDEC 625 BROADWAY, ALBANY NY 12233					
AECOM 40 British American Boulevard Latham, New York 12110	<table border="1"> <tr> <td>Drafter: CLS</td> <td>Date: December 2022</td> </tr> <tr> <td>Drg. Size: 11 x 17</td> <td>Job No.: 60628211</td> </tr> </table>	Drafter: CLS	Date: December 2022	Drg. Size: 11 x 17	Job No.: 60628211
Drafter: CLS	Date: December 2022				
Drg. Size: 11 x 17	Job No.: 60628211				
FIGURE 2-2					



NOTES:

1. THIS DRAWING IS AND SHALL REMAIN THE PROPERTY OF GANNETT FLEMING, INC.; REUSE ON PROJECT EXTENSIONS OR ANY OTHER PROJECT, OR ALTERATIONS OR ADDITIONS TO THIS PROJECT SHALL BE AT THE USER'S SOLE RISK, AND WITHOUT LIABILITY TO GANNETT FLEMING, INC. UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DOCUMENT IS A VIOLATION OF THE PROFESSIONAL LICENSE LAW.
2. NOT TO SCALE.

REFERENCE:

PROJECT: VAPOR INTRUSION REMOVAL SYSTEM
 ARMONK SQUARE
 ARMONK, NEW YORK

TITLE: SUB-SLAB DEPRESSURIZATION SYSTEM LAYOUT
 BUILDING C

SHEET NO: V106
 DRAWN BY: GANNETT FLEMING, INC.
 DATE: 12/2011

Title:	SUB-SLAB DEPRESSURIZATION SYSTEM LAYOUT BUILDING C	
Location:	ARMONK PRIVATE RESIDENTIAL AND PUBLIC WATER SUPPLY WELLS SITE NO. 3-60-005	
Client:	NYSDEC 625 BROADWAY, ALBANY NY 12233	

 <small>AECOM 40 British American Boulevard Latham, New York 12110</small>	Drafter: CLS	Date: December 2022
	Drg. Size: 11 x 17	Job No.: 60628211
FIGURE 2-3		



LEGEND

● CO-LOCATED INDOOR AIR AND SUB-SLAB VAPOR SAMPLE LOCATIONS

NOTES:

1. SAMPLE LOCATIONS ARE APPROXIMATE.
2. DRAWING NOT TO SCALE.



AECOM

**SVI SAMPLING LOCATIONS
BUILDING 4
SITE NO. 360005**

NYSDEC 625 Broadway, Albany NY, 12233

FILE NAME:	DRN	PROJECT NO.	DATE	FIGURE NO.
Building_4_2023.dwg	CLS	60628211	04/2023	2-4

Tables

Table 3-1
Soil Vapor Intrusion Sampling Analytical Results
Armonk Private Wells Site, North Castle, NY
NYSDEC Site No. 360005

Location ID	Sampling Date	Carbon Tetrachloride (µg/m ³)	1,1,1-Trichloroethane (µg/m ³)	Tetrachloroethene (µg/m ³)	Trichloroethene (µg/m ³)	Vinyl Chloride (µg/m ³)	1,1-Dichloroethene (µg/m ³)	cis-1,2-Dichloroethene (µg/m ³)	1,3,5-Trimethylbenzene (µg/m ³)	1,2,4-Trimethylbenzene (µg/m ³)	1,2-Dichloroethane (µg/m ³)	1,2-Dichloropropane (µg/m ³)
Outdoor Air												
Armonk-OA	4/7/2022	0.42	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.63 U	0.63 U	0.13 U	0.13 U
	3/14/2023	0.34	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.67 U	0.67 U	0.14 U	0.14 U
Building 1												
Building-1-SS1	4/7/2022	0.74	0.37	88	2.5	0.18 U	0.18 U	0.74	0.85 U	1.3	0.18 U	0.18 U
	3/14/2023	0.49	0.18	110	2.8	0.15 U	0.15 U	0.48	0.70 U	0.70 U	0.15 U	0.15 U
Building-1-SS2	4/7/2022	0.69	0.41	12	0.14 U	0.14 U	0.14 U	0.14 U	0.66 U	1.0	0.14 U	0.14 U
	3/14/2023	0.43	0.15 U	20	0.27	0.15 U	0.15 U	0.15 U	0.70 U	1.4	0.17	1.1
Building-1-IA	4/7/2022	0.63	0.28	4.9	0.14 U	0.14 U	0.14 U	0.14 U	0.76	2.7	0.14 U	0.14 U
	3/14/2023	0.43	0.15 U	3.5	0.15 U	0.15 U	0.15 U	0.15 U	0.71 U	2.4	0.15 U	0.15 U
Building 2												
Building-2-SS1	4/7/2022	1.2	2.8	0.73	0.14 U	0.14 U	0.14 U	0.14 U	0.64 U	0.64 U	0.14 U	0.14 U
	3/14/2023	1.0	1.8	0.47	0.15 U	0.15 U	0.15 U	0.15 U	0.70 U	0.70 U	0.15 U	0.15 U
Building-2-SS2	4/7/2022	0.51	0.90	48	1.5	0.16 U	0.16 U	0.53	0.76 U	0.76 U	0.16 U	0.16 U
	3/14/2023	0.55	0.85	36	1.2	0.15 U	0.15 U	0.41	0.74 U	0.74 U	0.15 U	0.15 U
Building-2-IA	4/7/2022	0.62	1.1	0.27	0.14 U	0.14 U	0.14 U	0.14 U	0.66 U	1.2	0.16	0.14 U
	3/14/2023	0.46 U	0.46 U	1.5	0.46 U	0.46 U	0.46 U	0.46 U	2.9	11	7.6	24
Building 3												
Building-3-IA	4/7/2022	0.38	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.66 U	1.8	0.14 U	0.14 U
	3/14/2023	0.51	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.75 U	0.75 U	0.19	0.38
Armonk-IA-DUP	4/7/2022	0.40	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.64 U	1.9	0.14 U	0.14 U
	3/14/2023	0.54	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.70 U	0.70 U	0.15 U	0.15 U
Building 4												
Building-4-SS1	3/14/2023	0.14 U	0.14 U	3.3	0.14 U	0.14 U	0.14 U	0.14 U	0.68 U	0.70	0.17	0.49
Building-4-SS2	3/14/2023	0.17	0.18	2.3	0.14 U	0.14 U	0.14 U	0.14 U	0.69 U	0.69 U	0.14 U	0.14 U
Building-4-IA1	3/14/2023	0.34	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.65 U	0.65 U	0.14 U	0.14 U
Building-4-IA2	3/14/2023	0.32	0.14 U	0.98	0.14 U	0.14 U	0.14 U	0.14 U	0.66 U	1.7	0.97	2.7

Notes:

µg/m³ = micrograms per cubic meter

U = Not Detected; Method Reporting Limit is provided

D = The reported result is from a dilution

Results in bold font were detected in the sample

Table 3-1
Soil Vapor Intrusion Sampling Analytical Results
Armonk Private Wells Site, North Castle, NY
NYSDEC Site No. 360005

Location ID	Sampling Date	2-Butanone (MEK) (µg/m ³)	2-Propanol (Isopropyl Alcohol) (µg/m ³)	4-Ethyltoluene (µg/m ³)	4-Methyl-2- pentanone (µg/m ³)	Acetone (µg/m ³)	Acrolein (µg/m ³)	alpha- Pinene (µg/m ³)	Benzene (µg/m ³)	Chloroform (µg/m ³)	Chloromethane (µg/m ³)	Cyclohexane (µg/m ³)	Dichlorodifluoromethane (µg/m ³)
Outdoor Air													
Armonk-OA	4/7/2022	1.2 U	1.5	0.64 U	1.3 U	6.3 U	1.2 U	0.65 U	0.61	0.13 U	0.48	1.3 U	2.4
	3/14/2023	1.3 U	1.3 U	0.69 U	1.4 U	6.6 U	1.3 U	1.4 U	0.99	0.14 U	0.59	1.3 U	2.1
Building 1													
Building-1-SS1	4/7/2022	1.6 U	3.6	0.86 U	1.8 U	8.5 U	1.6 U	0.88 U	1.3	1.4	0.34 U	1.8 U	2.3
	3/14/2023	2.8	4.0	0.73 U	1.5 U	9.7	1.3 U	1.5 U	0.30	0.90	0.28 U	1.4 U	2.1
Building-1-SS2	4/7/2022	2.0	5.7	0.67 U	1.4 U	15	1.3 U	0.68 U	0.93	0.33	0.26 U	1.4 U	2.4
	3/14/2023	5.2	6.1	0.73 U	1.5 U	7.0 U	1.3 U	1.5 U	1.4	0.26	0.28 U	1.4 U	2.1
Building-1-IA	4/7/2022	8.4	28	0.81	1.4 U	48	1.3	2.9	2.5	0.38	0.57	1.8	2.4
	3/14/2023	4.2	23	0.80	1.5 U	34	1.3 U	2.5	0.98	0.29	0.62	1.4 U	2.1
Building 2													
Building-2-SS1	4/7/2022	1.2 U	19	0.66 U	1.4 U	23	1.2 U	1.3	0.31	0.39	0.26 U	1.4 U	4.9
	3/14/2023	1.4 U	3.5	0.73 U	1.5 U	7.0 U	1.3 U	1.5 U	0.25	0.37	0.28 U	1.4 U	3.8
Building-2-SS2	4/7/2022	1.8	59	0.77 U	1.6 U	22	1.5 U	0.98	0.31	0.59	0.31 U	1.6 U	2.9
	3/14/2023	1.9	40	0.77 U	1.5 U	20	1.4 U	1.5 U	0.42	0.68	0.29 U	1.5 U	2.7
Building-2-IA	4/7/2022	3.5	200	0.67 U	1.4 U	57	1.6	5.8	0.60	0.59	0.57	1.4 U	3.1
	3/14/2023	45	140	3.5	6.9	230	4.2 U	17	16	3.3	1.5	27	2.4
Building 3													
Building-3-IA	4/7/2022	1.7	12	0.67 U	1.4 U	16	1.3 U	2.6	2.2	0.37	0.57	1.4 U	2.4
	3/14/2023	3.0	17	0.78 U	1.6 U	31	1.4 U	10	1.3	1.2	0.64	1.5 U	2.2
Armonk-IA-DUP	4/7/2022	1.5	12	0.66 U	1.4 U	17	1.2 U	2.6	2.0	0.37	0.56	1.4 U	2.4
	3/14/2023	2.5	16	0.73 U	1.5 U	26	1.3 U	9.3	1.0	1.3	0.64	1.4 U	2.2
Building 4													
Building-4-SS1	3/14/2023	1.6	2.3	0.71 U	1.4 U	6.8 U	1.3 U	1.6	0.97	0.14 U	0.61	1.4 U	2.2
Building-4-SS2	3/14/2023	1.4 U	1.6	0.72 U	1.4 U	8.6	1.3 U	1.4 U	0.54	0.14 U	0.28 U	1.4 U	2.2
Building-4-IA1	3/14/2023	1.3 U	1.6	0.68 U	1.4 U	6.5 U	1.2 U	1.4 U	0.51	0.14 U	0.52	1.3 U	2.2
Building-4-IA2	3/14/2023	6.1	8.5	0.68 U	1.4 U	42	1.2 U	16	2.8	0.40	0.43	3.4	2.0

Notes:

µg/m³ = micrograms per cubic meter

U = Not Detected; Method Reporting Limit is provided

D = The reported result is from a dilution

Results in bold font were detected in the sample

Table 3-1
Soil Vapor Intrusion Sampling Analytical Results
Armonk Private Wells Site, North Castle, NY
NYSDEC Site No. 360005

Location ID	Sampling Date	d-Limonene ($\mu\text{g}/\text{m}^3$)	Ethanol ($\mu\text{g}/\text{m}^3$)	Ethyl Acetate ($\mu\text{g}/\text{m}^3$)	Ethylbenzene ($\mu\text{g}/\text{m}^3$)	m,p- Xylenes ($\mu\text{g}/\text{m}^3$)	Methyl Methacrylate ($\mu\text{g}/\text{m}^3$)	Methylene Chloride ($\mu\text{g}/\text{m}^3$)	n-Butyl Acetate ($\mu\text{g}/\text{m}^3$)	n-Heptane ($\mu\text{g}/\text{m}^3$)	n-Hexane ($\mu\text{g}/\text{m}^3$)	n-Nonane ($\mu\text{g}/\text{m}^3$)
Outdoor Air												
Armonk-OA	4/7/2022	0.63 U	6.1 U	10	0.63 U	1.4	1.3 U	0.71	1.3 U	0.64 U	0.64 U	0.63 U
	3/14/2023	1.4 U	6.3 U	5.1	0.73	2.2	1.4 U	0.67 U	1.3 U	0.67 U	0.67 U	0.67 U
Building 1												
Building-1-SS1	4/7/2022	0.85 U	8.2 U	180	1.6	6.2	1.8 U	0.85 U	1.8 U	1.2	1.5	0.85 U
	3/14/2023	1.5 U	6.7 U	13	0.76	2.8	1.5 U	0.70 U	1.3 U	0.70 U	0.70 U	0.70 U
Building-1-SS2	4/7/2022	1.2	17	63	1.1	4.3	1.4 U	0.66 U	1.4 U	1.1	1.3	0.66 U
	3/14/2023	1.8	11	22	2.3	7.2	1.5 U	1.3	1.3 U	1.3	2.0	0.70 U
Building-1-IA	4/7/2022	9.7	310	72	2.1	7.6	1.4 U	1.0	1.4 U	2.6	3.6	1.6
	3/14/2023	3.1	390	6.7	1.7	5.3	1.5 U	0.71 U	1.4	1.2	1.8	0.79
Building 2												
Building-2-SS1	4/7/2022	1.3	81	2.6 U	0.64 U	2.2	3.5	0.86	1.4 U	0.66 U	0.66 U	0.64 U
	3/14/2023	1.5 U	7.4	2.8 U	0.70 U	2.1	1.5 U	0.70 U	1.3 U	0.70 U	0.70 U	0.70 U
Building-2-SS2	4/7/2022	1.3	96	4.2	0.76 U	1.8	1.7	0.76 U	1.6 U	0.77 U	0.77 U	0.76 U
	3/14/2023	1.5 U	49	7.7	0.74	2.6	3.6	0.74 U	1.4 U	0.74 U	0.74 U	0.74 U
Building-2-IA	4/7/2022	4.9	1100 D	3.6	0.92	2.9	12	1.2	1.4 U	0.92	0.69	0.66 U
	3/14/2023	57	350	570	35	93	11	28	11	17	29	2.5
Building 3												
Building-3-IA	4/7/2022	9.9	490 D	18	1.8	6.1	1.4 U	0.66 U	1.4 U	1.5	2.3	0.86
	3/14/2023	29	880 D	18	1.3	3.9	1.6 U	0.79	1.4 U	0.83	3.1	1.8
Armonk-IA-DUP	4/7/2022	10	480 D	16	1.6	5.3	1.4 U	0.64	1.4 U	1.3	2.0	0.85
	3/14/2023	22	890 D	12	0.78	2.4	1.5 U	0.70 U	1.3 U	0.70 U	2.6	1.7
Building 4												
Building-4-SS1	3/14/2023	2.3	9.9	21	1.7	5.0	1.4 U	0.68 U	1.3 U	0.88	1.3	0.68 U
Building-4-SS2	3/14/2023	1.4 U	27	13	0.69 U	2.2	1.4 U	0.69 U	1.3 U	0.69 U	0.69 U	0.69 U
Building-4-IA1	3/14/2023	1.4 U	8.1	4.8	0.65 U	1.8	1.4 U	0.65 U	1.2 U	0.65 U	0.65 U	0.65 U
Building-4-IA2	3/14/2023	10	63	69	5.5	15	1.4 U	3.6	1.5	2.5	4.6	0.66 U

Notes:

$\mu\text{g}/\text{m}^3$ = micrograms per cubic meter

U = Not Detected; Method Reporting Limit is provided

D = The reported result is from a dilution

Results in bold font were detected in the sample

Table 3-1
Soil Vapor Intrusion Sampling Analytical Results
Armonk Private Wells Site, North Castle, NY
NYSDEC Site No. 360005

Location ID	Sampling Date	n-Octane (µg/m ³)	n-Propylbenzene (µg/m ³)	o-Xylene (µg/m ³)	Propene (µg/m ³)	Styrene (µg/m ³)	Tetrahydrofuran (µg/m ³)	Toluene (µg/m ³)	Trichlorofluoromethane (µg/m ³)	Trichlorotrifluoroethane (µg/m ³)	1,3- Butadiene (µg/m ³)	Bromodichloromethane (µg/m ³)
Outdoor Air												
Armonk-OA	4/7/2022	0.64 U	0.64 U	0.63 U	0.78	0.63 U	1.2 U	2.8	1.1	0.65 U	0.25 U	0.13 U
	3/14/2023	0.68 U	0.68 U	0.83	1.7	0.67 U	1.1	3.7	1.0	0.68 U	0.26 U	0.14 U
Building 1												
Building-1-SS1	4/7/2022	0.86 U	0.86 U	2.0	0.99	0.85 U	1.8	13	1.1	0.88 U	0.34 U	0.18 U
	3/14/2023	0.72 U	0.72 U	1.0	0.70 U	0.70 U	2.7	3.7	1.0	0.72 U	0.28 U	0.15 U
Building-1-SS2	4/7/2022	0.67 U	0.67 U	1.4	1.8	0.66 U	2.2	8.5	1.2	0.68 U	0.26 U	0.14 U
	3/14/2023	0.71 U	0.71 U	2.6	0.70 U	0.72	4.9	19	0.99	0.71 U	0.28 U	0.15 U
Building-1-IA	4/7/2022	1.3	0.67 U	2.6	8.3	0.77	13	18	1.1	0.68 U	0.26 U	0.14 U
	3/14/2023	0.75	0.72 U	2.1	8.5	0.71 U	6.6	7.2	0.98	0.72 U	0.28 U	0.15 U
Building 2												
Building-2-SS1	4/7/2022	0.66 U	0.66 U	0.71	3.7	0.64 U	1.2 U	16	4.3	0.81	0.26 U	0.14 U
	3/14/2023	0.72 U	0.72 U	0.76	0.70 U	0.70 U	1.3	4.8	2.5	0.72 U	0.28 U	0.15 U
Building-2-SS2	4/7/2022	0.77 U	0.77 U	0.76 U	11	0.76 U	1.5 U	6.1	1.7	0.79 U	0.31 U	0.16 U
	3/14/2023	0.76 U	0.76 U	0.92	16	0.74 U	2.6	5.3	1.5	0.76 U	0.29 U	0.15 U
Building-2-IA	4/7/2022	0.67 U	0.67 U	0.94	26	0.66 U	1.3 U	25	1.9	0.69 U	0.27 U	0.14 U
	3/14/2023	5.4	2.4	38	20	12	43	430	2.2 U	2.3 U	0.88 U	0.46 U
Building 3												
Building-3-IA	4/7/2022	1.1	0.67 U	2.3	5.7	0.66 U	1.3 U	9.4	2.4	0.68 U	1.0	0.16
	3/14/2023	1.0	0.76 U	1.5	5.8	0.75 U	2.1	17	1.8	0.76 U	0.30 U	0.22
Armonk-IA-DUP	4/7/2022	0.92	0.66 U	2.0	5.5	0.64 U	1.2 U	7.3	2.3	0.67 U	0.98	0.15
	3/14/2023	0.90	0.71 U	0.92	6.1	0.70 U	1.2	10	1.8	0.71 U	0.28 U	0.22
Building 4												
Building-4-SS1	3/14/2023	0.70 U	0.70 U	1.9	1.5	0.68 U	2.4	16	1.1	0.70 U	0.27 U	0.14 U
Building-4-SS2	3/14/2023	0.71 U	0.71 U	0.82	1.2	0.69 U	1.4	4.6	1.2	0.71 U	0.28 U	0.14 U
Building-4-IA1	3/14/2023	0.66 U	0.66 U	0.67	1.0	0.65 U	2.2	4.6	1.0	0.66 U	0.26 U	0.14 U
Building-4-IA2	3/14/2023	0.84	0.67 U	5.7	2.5	1.8	7.5	62	0.94	0.67 U	0.26 U	0.14 U

Notes:

µg/m³ = micrograms per cubic meter
U = Not Detected; Method Reporting Limit is provided
D = The reported result is from a dilution
Results in bold font were detected in the sample

Table 3-2
 NYSDOH Guidance Decision Matrix Outcomes
 (April 2022 and March 2023)
 Armonk Private Wells Site, North Castle, New York
 NYSDEC Site No. 360005

Sample Location	NYSDOH Guidance for Evaluating SVI	Building-1-IA, Building-1-SS1						Building-1-IA, Building-1-SS2						Building-2-IA, Building-2-SS1						Building-2-IA, Building-2-SS2					
Location Description		Lowest Level (Basement)						Lowest Level (Basement)						Lowest Level (Basement)						Lowest Level (Basement)					
Sample Date		April 7, 2022			March 14, 2023			April 7, 2022			March 14, 2023			April 7, 2022			March 14, 2023			April 7, 2022			March 14, 2023		
Sample and Action		Indoor Air	Sub-Slab Air	Action	Indoor Air	Sub-Slab Air	Action	Indoor Air	Sub-Slab Air	Action	Indoor Air	Sub-Slab Air	Action	Indoor Air	Sub-Slab Air	Action	Indoor Air	Sub-Slab Air	Action	Indoor Air	Sub-Slab Air	Action	Indoor Air	Sub-Slab Air	Action
Analytical Results (µg/m ³)																									
Carbon Tetrachloride	Matrix A	0.63	0.74	NFA	0.43	0.49	NFA	0.63	0.69	NFA	0.43	0.43	NFA	0.62	1.2	NFA	0.46 U	1.0	NFA	0.62	0.51	NFA	0.46 U	0.55	NFA
1,1-Dichloroethene	Matrix A	0.14 U	0.18 U	NFA	0.15 U	0.15 U	NFA	0.14 U	0.14 U	NFA	0.15 U	0.15 U	NFA	0.14 U	0.14 U	NFA	0.46 U	0.15 U	NFA	0.14 U	0.16 U	NFA	0.46 U	0.15 U	NFA
cis-1,2-Dichloroethene	Matrix A	0.14 U	0.74	NFA	0.15 U	0.48	NFA	0.14 U	0.14 U	NFA	0.15 U	0.15 U	NFA	0.14 U	0.14 U	NFA	0.46 U	0.15 U	NFA	0.14 U	0.53	NFA	0.46 U	0.41	NFA
Methylene Chloride	Matrix B	1.0	0.85 U	NFA	0.71 U	0.70 U	NFA	1.0	0.66 U	NFA	0.71 U	1.3	NFA	1.2	0.86	NFA	28	0.70 U	IS	1.2	0.76 U	NFA	28	0.74 U	IS
Tetrachloroethene	Matrix B	4.9	88	NFA	3.5	110	MO	4.9	12	NFA	3.5	20	NFA	0.27	0.73	NFA	1.5	0.47	NFA	0.27	48	NFA	1.5	36	NFA
1,1,1-Trichloroethane	Matrix B	0.28	0.37	NFA	0.15 U	0.18	NFA	0.28	0.41	NFA	0.15 U	0.15 U	NFA	1.1	2.8	NFA	0.46 U	1.8	NFA	1.1	0.90	NFA	0.46 U	0.85	NFA
Trichloroethene	Matrix A	0.14 U	2.5	NFA	0.15 U	2.8	NFA	0.14 U	0.14 U	NFA	0.15 U	0.27	NFA	0.14 U	0.14 U	NFA	0.46 U	0.15 U	NFA	0.14 U	1.5	NFA	0.46 U	1.2	NFA
Vinyl Chloride	Matrix C	0.14 U	0.18 U	NFA	0.15 U	0.15 U	NFA	0.14 U	0.14 U	NFA	0.15 U	0.15 U	NFA	0.14 U	0.14 U	NFA	0.46 U	0.15 U	NFA	0.14 U	0.16 U	NFA	0.46 U	0.15 U	NFA

Sample Location	NYSDOH Guidance for Evaluating SVI	Building-3-IA						Building-4-IA1, Building-4-SS1			Building-4-IA2, Building-4-SS2		
Location Description		Lowest Level (Basement)						Lowest Level (Basement)			Lowest Level (Basement)		
Sample Date		April 7, 2022			March 14, 2023			March 14, 2023			March 14, 2023		
Sample and Action		Indoor Air	Sub-Slab Air	Action	Indoor Air	Sub-Slab Air	Action	Indoor Air	Sub-Slab Air	Action	Indoor Air	Sub-Slab Air	Action
Analytical Results (µg/m ³)													
Carbon Tetrachloride	Matrix A	0.38	NS	NA	0.51	NS	NA	0.34	0.14 U	NFA	0.32	0.17	NFA
1,1-Dichloroethene	Matrix A	0.14 U	NS	NA	0.16 U	NS	NA	0.14 U	0.14 U	NFA	0.14 U	0.14 U	NFA
cis-1,2-Dichloroethene	Matrix A	0.14 U	NS	NA	0.16 U	NS	NA	0.14 U	0.14 U	NFA	0.14 U	0.14 U	NFA
Methylene Chloride	Matrix B	0.66 U	NS	NA	0.79	NS	NA	0.65 U	0.68 U	NFA	3.6	0.69 U	NFA
Tetrachloroethene	Matrix B	0.14 U	NS	NA	0.16 U	NS	NA	0.14 U	3.3	NFA	0.98	2.3	NFA
1,1,1-Trichloroethane	Matrix B	0.14 U	NS	NA	0.16 U	NS	NA	0.14 U	0.14 U	NFA	0.14 U	0.18	NFA
Trichloroethene	Matrix A	0.14 U	NS	NA	0.16 U	NS	NA	0.14 U	0.14 U	NFA	0.14 U	0.14 U	NFA
Vinyl Chloride	Matrix C	0.14 U	NS	NA	0.16 U	NS	NA	0.14 U	0.14 U	NFA	0.14 U	0.14 U	NFA

Sub-Slab Vapor Concentration (µg/m ³)	Matrix A			Sub-Slab Vapor Concentration (µg/m ³)	Matrix B			Sub-Slab Vapor Concentration (µg/m ³)	Matrix C	
	Indoor Air Concentration (µg/m ³)				Indoor Air Concentration (µg/m ³)				Indoor Air Concentration (µg/m ³)	
	<0.2	0.2 to <1	1 and above		<3	3 to <10	10 and above		<0.2	0.2 and above
<6	NFA	NFA	IS	<100	NFA	NFA	IS	<6	NFA	IS
6 to <60	NFA	MO	MI	100 to <1,000	NFA	MO	MI	6 to <60	MO	MI
60 and above	MI	MI	MI	1,000 and above	MI	MI	MI	60 and above	MI	MI

Notes:
 NYSDOH - New York State Dept. of Health
 SVI - Soil Vapor Intrusion
 µg/m³ - micrograms per cubic meter
 U - Not detected; sample quantitation limit shown.
BOLD - The compound was detected.
 NA - Not applicable
 NS - Not sampled. A sub-slab sample could not be collected from Building 3 due to the absence of pre-installed sub-slab sampling ports.

Sample Matrix Results (Based on May 2017 Decision Matrices)
NFA - No further action
IS - Identify Source(s) and Resample or Mitigate
MO - Monitor
MI - Mitigate

Appendix A - Weather Data at the Time of Sample Collection

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:56 AM	47 °F	43 °F	86 %	E	6 mph	0 mph	29.42 in	0.0 in	Cloudy
1:56 AM	47 °F	43 °F	86 %	E	5 mph	0 mph	29.43 in	0.0 in	Mostly Cloudy
2:56 AM	47 °F	42 °F	83 %	VAR	3 mph	0 mph	29.44 in	0.0 in	Cloudy
3:56 AM	46 °F	40 °F	79 %	CALM	0 mph	0 mph	29.44 in	0.0 in	Cloudy
4:56 AM	46 °F	39 °F	76 %	E	9 mph	17 mph	29.39 in	0.0 in	Cloudy
5:56 AM	45 °F	38 °F	76 %	E	12 mph	0 mph	29.38 in	0.0 in	Cloudy
6:56 AM	44 °F	39 °F	82 %	E	12 mph	21 mph	29.38 in	0.0 in	Cloudy
7:54 AM	43 °F	39 °F	87 %	E	14 mph	26 mph	29.36 in	0.0 in	Fog
7:56 AM	43 °F	40 °F	89 %	E	18 mph	28 mph	29.36 in	0.0 in	Fog
8:56 AM	45 °F	42 °F	90 %	ESE	12 mph	21 mph	29.38 in	0.0 in	Fog
9:24 AM	45 °F	42 °F	90 %	ESE	14 mph	21 mph	29.37 in	0.0 in	Fog
9:56 AM	45 °F	42 °F	90 %	E	17 mph	25 mph	29.35 in	0.0 in	Fog
10:12 AM	45 °F	43 °F	93 %	E	13 mph	21 mph	29.36 in	0.0 in	Fog
10:33 AM	45 °F	43 °F	93 %	E	12 mph	23 mph	29.37 in	0.0 in	Fog
10:56 AM	46 °F	43 °F	89 %	ESE	9 mph	20 mph	29.38 in	0.0 in	Fog
11:56 AM	46 °F	43 °F	89 %	E	7 mph	0 mph	29.36 in	0.0 in	Light Rain
12:04 PM	46 °F	43 °F	89 %	E	9 mph	0 mph	29.36 in	0.0 in	Light Rain
12:56 PM	46 °F	43 °F	89 %	E	9 mph	0 mph	29.33 in	0.1 in	Light Rain
1:56 PM	47 °F	44 °F	90 %	E	16 mph	23 mph	29.27 in	0.1 in	Light Rain
2:56 PM	47 °F	45 °F	93 %	ESE	16 mph	23 mph	29.25 in	0.1 in	Light Rain
3:56 PM	47 °F	44 °F	90 %	E	14 mph	21 mph	29.20 in	0.1 in	Rain
4:56 PM	47 °F	44 °F	90 %	E	15 mph	25 mph	29.20 in	0.2 in	Light Rain
5:56 PM	47 °F	44 °F	90 %	E	18 mph	29 mph	29.19 in	0.2 in	Light Rain
6:56 PM	47 °F	45 °F	93 %	E	18 mph	25 mph	29.16 in	0.0 in	Light Rain
7:56 PM	47 °F	45 °F	93 %	E	20 mph	29 mph	29.12 in	0.1 in	Rain
8:56 PM	48 °F	45 °F	89 %	E	17 mph	24 mph	29.11 in	0.2 in	Rain
9:27 PM	48 °F	45 °F	89 %	E	17 mph	28 mph	29.08 in	0.1 in	T-Storm
9:56 PM	48 °F	46 °F	93 %	E	13 mph	18 mph	29.09 in	0.3 in	Heavy T-Storm
10:56 PM	50 °F	48 °F	93 %	E	12 mph	21 mph	29.06 in	0.4 in	Heavy Rain
11:56 PM	51 °F	49 °F	92 %	W	6 mph	0 mph	29.07 in	0.6 in	Heavy Rain

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:56 AM	38 °F	35 °F	89 %	NNW	15 mph	0 mph	29.13 in	0.1 in	Rain
1:56 AM	35 °F	32 °F	89 %	NW	17 mph	30 mph	29.11 in	0.2 in	Wintry Mix
2:56 AM	35 °F	32 °F	89 %	NW	17 mph	25 mph	29.08 in	0.0 in	Light Rain
3:56 AM	35 °F	32 °F	89 %	NW	18 mph	0 mph	29.04 in	0.0 in	Wintry Mix
4:56 AM	35 °F	32 °F	89 %	NW	16 mph	24 mph	29.02 in	0.0 in	Wintry Mix
5:56 AM	34 °F	31 °F	89 %	WNW	17 mph	0 mph	29.02 in	0.0 in	Wintry Mix
6:56 AM	34 °F	32 °F	92 %	WNW	14 mph	23 mph	29.01 in	0.0 in	Wintry Mix
7:56 AM	34 °F	32 °F	92 %	WNW	13 mph	0 mph	29.01 in	0.0 in	Wintry Mix
8:56 AM	34 °F	31 °F	89 %	WNW	15 mph	25 mph	28.99 in	0.0 in	Wintry Mix
9:56 AM	34 °F	30 °F	85 %	WNW	20 mph	29 mph	28.98 in	0.0 in	Wintry Mix
10:56 AM	34 °F	31 °F	89 %	WNW	21 mph	35 mph	28.97 in	0.0 in	Wintry Mix / Windy
11:56 AM	34 °F	30 °F	85 %	WNW	18 mph	24 mph	28.97 in	0.0 in	Light Snow
12:56 PM	34 °F	30 °F	85 %	WNW	20 mph	31 mph	28.95 in	0.0 in	Light Snow
1:19 PM	34 °F	30 °F	85 %	WNW	18 mph	30 mph	28.95 in	0.0 in	Light Snow
1:56 PM	33 °F	30 °F	89 %	WNW	25 mph	30 mph	28.94 in	0.0 in	Snow / Windy
1:59 PM	33 °F	30 °F	89 %	WNW	21 mph	30 mph	28.94 in	0.0 in	Snow / Windy
2:04 PM	33 °F	30 °F	89 %	WNW	22 mph	30 mph	28.94 in	0.0 in	Snow / Windy
2:16 PM	33 °F	30 °F	89 %	WNW	22 mph	31 mph	28.94 in	0.0 in	Snow / Windy
2:52 PM	34 °F	30 °F	87 %	WNW	24 mph	32 mph	28.94 in	0.0 in	Light Snow / Windy
2:56 PM	33 °F	30 °F	89 %	WNW	21 mph	32 mph	28.94 in	0.0 in	Light Snow / Windy
3:56 PM	33 °F	30 °F	89 %	WNW	28 mph	36 mph	28.96 in	0.0 in	Light Snow / Windy
4:56 PM	34 °F	29 °F	82 %	WNW	22 mph	37 mph	28.98 in	0.0 in	Light Snow / Windy
5:56 PM	33 °F	29 °F	85 %	WNW	20 mph	35 mph	29.00 in	0.0 in	Light Snow
6:56 PM	32 °F	28 °F	85 %	WNW	26 mph	38 mph	29.04 in	0.0 in	Light Snow / Windy
7:56 PM	32 °F	27 °F	82 %	WNW	26 mph	35 mph	29.05 in	0.0 in	Light Snow / Windy
7:58 PM	32 °F	27 °F	82 %	WNW	25 mph	35 mph	29.05 in	0.0 in	Light Snow / Windy
8:56 PM	32 °F	25 °F	75 %	WNW	24 mph	36 mph	29.06 in	0.0 in	Light Drizzle / Windy
9:56 PM	32 °F	25 °F	75 %	WNW	31 mph	38 mph	29.07 in	0.0 in	Mostly Cloudy / Windy
10:56 PM	32 °F	25 °F	75 %	WNW	23 mph	35 mph	29.08 in	0.0 in	Blowing Snow / Windy
11:56 PM	33 °F	25 °F	72 %	WNW	24 mph	33 mph	29.08 in	0.0 in	Blowing Snow / Windy

Appendix B - Advanced Geological Services Geophysical Investigation Results



Malvern, PA19355
(610) 722-5500 (ph.)
(610) 722-0250 (fax)

April 13, 2023

Ms. Lindsay Mitchell
AECOM Environment
40 British American Blvd.
Latham, New York

Subject: Geophysical Investigation Results
NYSDEC Armonk Site
Armonk, New York

Dear Ms. Lindsay Mitchell

Advanced Geological Services (AGS) presents this letter report to AECOM Environment of Latham, New York, detailing the methods and results of the geophysical investigation conducted at the NYSDEC Armonk site located at 410 Main Street, Armonk, New York. The objectives of the geophysical investigation were to locate and identify potential utilities and other potential drilling obstructions for the installation of several soil vapor points in the two basements of a retail store. The field activities for this geophysical investigation were completed by AGS on March 6, 2023.

Methods

The ground penetrating radar (GPR) and radio frequency (RF) were utilized for this geophysical investigation. The MD (metal detection) method was not utilized due to the close proximity of metallic objects within and around the basements. To locate utilities around each proposed drilling location AGS collected RF data in a grid pattern and placed a traceable signal on surficially identifiable utilities. Additional GPR profiles were collected in a grid pattern, as space permitted, to locate potential obstructions or utilities around each proposed drilling location. All identified features were marked on the ground surface with chalk as the onsite representative requested that no spray paint be used.

Ground Penetrating Radar (GPR) Method

The ground penetrating radar (GPR) method was used to locate and identify potential utilities and other buried features. The GPR method is based upon the transmission of repetitive, radio frequency electromagnetic (EM) pulses into the subsurface. When the transmitted energy of down going wave contacts an interface of dissimilar electrical character, part of the energy is returned to the surface in the form of a reflected signal. This reflected signal is detected by a receiving transducer and is displayed on the screen of the GPR unit as well as being recorded on the internal hard-drive. The received GPR response remains constant as long as the electrical contrast between media is present and constant. Lateral or vertical changes in the electrical properties of the subsurface result in equivalent changes in the GPR responses. The system records a continuous image of the subsurface by plotting two way travel time of the reflected EM pulse versus distance traveled along the ground surface. Two way travel time values are then converted to depth using known soil velocity functions.

The GPR field procedures involved (1) instrument calibration, (2) test run completion, (3) production profile collection and recording, and (4) data storage for subsequent processing and analysis in the office. Each radar profile was examined for characteristic GPR signatures that may indicate the presence of buried targets. A Geophysical Survey System SIR System 3000 and a 2.6 gigahertz (GHz) antenna were used with a recording window of 12 nanoseconds (ns) to provide the required depth penetration and subsurface detail.

Radio Frequency (RF) Utility Locating Method

A Radiodetection RD400/PDL2 multi-frequency RF utility locating system was used for this project to locate potential electric lines and other surficially identifiable utilities and/or features. This instrument consists of a receiver/tracer and a remote transmitter, which operates at frequencies ranging between 8 kHz and 65 kHz. In addition, the receiver can be used in 60 Hz passive mode to identify active buried electrical lines. This utility tracing instrument provides audible and visual feedback to the operator when a utility that is coupled with the transmitted signal is crossed. The transmitter produces a radio-frequency signal in the utility to be traced by either induction coupling or direct hook-up. The receiver output provides measured field strength of the received signal and varies an audible pitch depending upon how far the utility is from the receiver. By carefully adjusting the gain of the receiver it is possible to determine the location of the utility and to separate it from adjacent utilities.

Ms. Lindsay Mitchell
AECOM Environment
April 13, 2023
Page 3 of 3

Results

AGS "cleared" numerous proposed drilling locations. Each "cleared" proposed drilling location exhibited a reflection-free GPR signature and no RF response. The final locations for each proposed drilling location was discussed and reviewed with the onsite representative. All locations were marked on the ground surface with chalk and documented with photographs. All photographs are available upon request.

Closing

AGS "cleared" several proposed drilling locations. Upon completion of the geophysical investigation AGS reviewed the results with the onsite AECOM representative.

All geophysical data and field notes collected as a part of this investigation will be stored at the AGS office. The data collection and interpretation methods used in this investigation are consistent with standard practices applied to similar geophysical investigations. The correlation of geophysical responses with probable subsurface features is based on the past results of similar surveys although it is possible that some variation could exist at this site. Due to the nature of geophysical data, no guarantees can be made or implied regarding the presence or absence of additional objects or targets beyond those identified.

If you have any questions regarding the results of this field investigation, please contact me at 610-722-5500. It was a pleasure working with you on this project and we look forward to being able to provide you with sub-surface imaging services in the future.

Sincerely,
Prepared by



Christopher Call P.G.
Senior Geophysicist

Appendix C - New York State Department of Health Indoor Air Quality Questionnaire and Building Inventory Forms

Appendix D - Sampling Log Sheets

Vapor Intrusion Survey
Outdoor Air Sampling Log Sheet

Sampled by: Chris French, Steve Gray

						ppb ¹	Inches of Mercury		
Sample ID	Sample Date	Canister Number	Regulator Number	Sample Start Time	Sample Stop Time	PID Reading	Vacuum Before	Vacuum at Start	Vacuum After
Armonk-OA 040722	4/7/2022	AC01909	SFC00021	0756	1420	0	0	30	1.5

Notes:

- 1 - Parts per billion (isobutylene equivalent).
- 2 - Regulators were preset by laboratory to 0.0125 Liters/minute sampling rate.
- 3 - All outdoor air (OA) samples were collected in 6-liter SUMMA® canisters.

Vapor Intrusion Survey
Outdoor Air Sampling Log Sheet

Sampled by: Mike Izdebski, Steve Gray

						ppb ¹	Inches of Mercury		
Sample ID	Sample Date	Canister Number	Regulator Number	Sample Start Time	Sample Stop Time	PID Reading	Vacuum Before	Vacuum at Start	Vacuum After
Armonk-OA 031423	3/14/2023	AS01085	SFC00512	0755	1559	0.000	0.0	29.5	3.5

Notes:

- 1 - Parts per billion (isobutylene equivalent).
- 2 - Regulators were preset by laboratory to 0.0125 Liters/minute sampling rate.
- 3 - All outdoor air (OA) samples were collected in 6-liter SUMMA® canisters.

Appendix E - Data Usability Summary Reports

VALIDATA

Chemical Services, Inc.

2159 Wynnton Pointe, Duluth, GA 30097

(770) 232-0130

(770) 232-5082 (Fax)

www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY: AECOM Technical Services Northeast, Inc.
PROJECT NAME: Armonk Private Wells #60628211
CONTRACTED LAB: ALS Environmental
QA/QC LEVEL: DUSR
ANALYTICAL METHOD(S): EPA Method TO-15
VALIDATION GUIDELINES: USEPA Region II data validation SOP ((VOA-TO15 HW-31 Rev.6, Analysis of VOCs in Air contained in Canisters by Method TO-15, September 2016), Professional Judgment
SAMPLE MATRIX: Air
TYPES OF ANALYSES: Volatile Organic Carbons (VOC)
DATA REVIEWER(S): Amy L. Hogan
SDG NUMBER: P2201602
SAMPLING DATE(S): April 7, 2022

SAMPLES:

<u>Client Sample ID</u>	<u>Laboratory ID</u>	<u>VOC</u>
Armonk-OA-040722	P2201602-001	X
Building-1-SS1-040722	P2201602-002	X
Building-1-IA-040722	P2201602-003	X
Building-1-SS2-040722	P2201602-004	X
Building-2-SS1-040722	P2201602-005	X
Building-2-IA-040722	P2201602-006	X
Building-2-IA-040722DL	P2201602-006DL	X
Building-2-SS2-040722	P2201602-007	X
Buidling-3-IA-040722	P2201602-008	X
Building-3-IA-040722DL	P2201602-008DL	X
Armonk-IA-DUP-040722	P2201602-009	X
Armonk-IA-DUP-040722DL	P2201602-009DL	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been "tentatively identified" or "presumptively" as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY REPORT

ALS Environmental – P2201602

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per EPA Method TO-15.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

All Initial Calibration Verification criteria were met. No data qualification was necessary.

Continuing Calibration:

All Continuing Calibration criteria were met. No data qualification was necessary.

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Canister Blanks:

There were no detects in the canister check blanks for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

Two LCS / LCSD sets were analyzed by the laboratory for this SDG. All criteria were met. No data qualification was necessary.

IX.) Matrix Duplicate:

Matrix Duplicate analysis data was not submitted for this SDG. Data qualification based on the absence of MD data was not required. No data qualification was necessary.

X.) Field Duplicates:

One set of field duplicate samples (Building-3-IA-040722 / Armonk-IA-DUP-040722) was identified as part of this SDG. The calculable Relative Percent Differences (RPDs) for the first set were:

Propene	3.6%
Dichlorodifluoromethane	0%
Chloromethane	1.8%
1,3-butadiene	2.0%
Ethanol	2.1%
Acetone	6.1%
Trichlorofluoromethane	4.3%
2-propanol	0%
2-butanone	13%
Ethyl acetate	12%
n-hexane	14%
chloroform	0%
benzene	9.5%
carbon tetrachloride	5.1%
bromodichloromethane	6.5%

n-heptane	14%
toluene	25%
n-octane	18%
ethylbenzene	12%
m,p-xylene	14%
o-xylene	14%
n-nonane	2.4%
alpha-pinene	0%
1,2,4-trimethylbenzene	5.4%
d-Limonene	1.0%

All RPDs were within the QC limit. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

The initial analysis ethanol results for samples Building-2-IA-040722, Building-3-IA-040722 and Armonk-IA-DUP-040722 exceeded the linear calibration range. A dilution analysis was performed for each of the listed samples with all calibration criteria met. Since the Form I for each of the samples was a composite of the results, no data qualification was necessary.

All other CRQL criteria were met.

Attachment A

Sample Result Forms (FORM Is) Corrected for Validation Qualifiers

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: NYS Department of Environmental Conservation

Client Sample ID: Armonk-OA-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC01909

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14/22

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.75 Final Pressure (psig): 3.94

Canister Dilution Factor: 1.21

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	0.78	0.63	0.45	0.37	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	0.64	0.48	0.13	
74-87-3	Chloromethane	0.48	0.25	0.23	0.12	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.65	ND	0.094	
75-01-4	Vinyl Chloride	ND	0.13	ND	0.052	
106-99-0	1,3-Butadiene	ND	0.25	ND	0.11	
74-83-9	Bromomethane	ND	0.25	ND	0.065	
75-00-3	Chloroethane	ND	0.25	ND	0.096	
64-17-5	Ethanol	ND	6.1	ND	3.2	
75-05-8	Acetonitrile	ND	1.2	ND	0.72	
107-02-8	Acrolein	ND	1.2	ND	0.53	
67-64-1	Acetone	ND	6.3	ND	2.6	
75-69-4	Trichlorofluoromethane (CFC 11)	1.1	0.63	0.20	0.11	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.5	1.2	0.60	0.49	
107-13-1	Acrylonitrile	ND	1.2	ND	0.56	
75-35-4	1,1-Dichloroethene	ND	0.13	ND	0.034	
75-09-2	Methylene Chloride	0.71	0.63	0.20	0.18	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.64	ND	0.20	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.65	ND	0.085	
75-15-0	Carbon Disulfide	ND	1.3	ND	0.43	
156-60-5	trans-1,2-Dichloroethene	ND	0.13	ND	0.034	
75-34-3	1,1-Dichloroethane	ND	0.13	ND	0.033	
1634-04-4	Methyl tert-Butyl Ether	ND	0.64	ND	0.18	
108-05-4	Vinyl Acetate	ND	6.1	ND	1.7	
78-93-3	2-Butanone (MEK)	ND	1.2	ND	0.41	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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

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Client: NYS Department of Environmental Conservation

Client Sample ID: Armonk-OA-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC01909

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14/22

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.75 Final Pressure (psig): 3.94

Canister Dilution Factor: 1.21

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.13	ND	0.034	
141-78-6	Ethyl Acetate	10	2.5	2.9	0.71	
110-54-3	n-Hexane	ND	0.64	ND	0.18	
67-66-3	Chloroform	ND	0.13	ND	0.027	
109-99-9	Tetrahydrofuran (THF)	ND	1.2	ND	0.41	
107-06-2	1,2-Dichloroethane	ND	0.13	ND	0.033	
71-55-6	1,1,1-Trichloroethane	ND	0.13	ND	0.024	
71-43-2	Benzene	0.61	0.13	0.19	0.042	
56-23-5	Carbon Tetrachloride	0.42	0.13	0.067	0.021	
110-82-7	Cyclohexane	ND	1.3	ND	0.39	
78-87-5	1,2-Dichloropropane	ND	0.13	ND	0.029	
75-27-4	Bromodichloromethane	ND	0.13	ND	0.020	
79-01-6	Trichloroethene	ND	0.13	ND	0.025	
123-91-1	1,4-Dioxane	ND	0.63	ND	0.17	
80-62-6	Methyl Methacrylate	ND	1.3	ND	0.33	
142-82-5	n-Heptane	ND	0.64	ND	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.64	ND	0.14	
108-10-1	4-Methyl-2-pentanone	ND	1.3	ND	0.32	
10061-02-6	trans-1,3-Dichloropropene	ND	0.62	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.13	ND	0.024	
108-88-3	Toluene	2.8	0.63	0.74	0.17	
591-78-6	2-Hexanone	ND	1.3	ND	0.33	
124-48-1	Dibromochloromethane	ND	0.13	ND	0.016	
106-93-4	1,2-Dibromoethane	ND	0.13	ND	0.017	
123-86-4	n-Butyl Acetate	ND	1.3	ND	0.28	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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

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Client: NYS Department of Environmental Conservation

Client Sample ID: Armonk-OA-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC01909

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14/22

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.75 Final Pressure (psig): 3.94

Canister Dilution Factor: 1.21

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.64	ND	0.14	
127-18-4	Tetrachloroethene	ND	0.13	ND	0.020	
108-90-7	Chlorobenzene	ND	0.63	ND	0.14	
100-41-4	Ethylbenzene	ND	0.63	ND	0.14	
179601-23-1	m,p-Xylenes	1.4	1.3	0.32	0.31	
75-25-2	Bromoform	ND	0.63	ND	0.061	
100-42-5	Styrene	ND	0.63	ND	0.15	
95-47-6	o-Xylene	ND	0.63	ND	0.14	
111-84-2	n-Nonane	ND	0.63	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	ND	0.019	
98-82-8	Cumene	ND	0.63	ND	0.13	
80-56-8	alpha-Pinene	ND	0.65	ND	0.12	
103-65-1	n-Propylbenzene	ND	0.64	ND	0.13	
622-96-8	4-Ethyltoluene	ND	0.64	ND	0.13	
108-67-8	1,3,5-Trimethylbenzene	ND	0.63	ND	0.13	
95-63-6	1,2,4-Trimethylbenzene	ND	0.63	ND	0.13	
100-44-7	Benzyl Chloride	ND	1.3	ND	0.26	
541-73-1	1,3-Dichlorobenzene	ND	0.63	ND	0.10	
106-46-7	1,4-Dichlorobenzene	ND	0.63	ND	0.10	
95-50-1	1,2-Dichlorobenzene	ND	0.64	ND	0.11	
5989-27-5	d-Limonene	ND	0.63	ND	0.11	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.2	ND	0.13	
120-82-1	1,2,4-Trichlorobenzene	ND	1.2	ND	0.16	
91-20-3	Naphthalene	ND	0.63	ND	0.12	
87-68-3	Hexachlorobutadiene	ND	0.63	ND	0.059	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

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Client: NYS Department of Environmental Conservation

Client Sample ID: Building-1-SS1-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02308

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14/22

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.15 Final Pressure (psig): 4.10

Canister Dilution Factor: 1.63

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	0.99	0.85	0.57	0.49	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.3	0.86	0.47	0.17	
74-87-3	Chloromethane	ND	0.34	ND	0.17	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.88	ND	0.13	
75-01-4	Vinyl Chloride	ND	0.18	ND	0.070	
106-99-0	1,3-Butadiene	ND	0.34	ND	0.15	
74-83-9	Bromomethane	ND	0.34	ND	0.088	
75-00-3	Chloroethane	ND	0.34	ND	0.13	
64-17-5	Ethanol	ND	8.2	ND	4.3	
75-05-8	Acetonitrile	ND	1.6	ND	0.97	
107-02-8	Acrolein	ND	1.6	ND	0.71	
67-64-1	Acetone	ND	8.5	ND	3.6	
75-69-4	Trichlorofluoromethane (CFC 11)	1.1	0.85	0.20	0.15	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.6	1.6	1.5	0.66	
107-13-1	Acrylonitrile	ND	1.6	ND	0.75	
75-35-4	1,1-Dichloroethene	ND	0.18	ND	0.045	
75-09-2	Methylene Chloride	ND	0.85	ND	0.24	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.86	ND	0.28	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.88	ND	0.11	
75-15-0	Carbon Disulfide	ND	1.8	ND	0.58	
156-60-5	trans-1,2-Dichloroethene	ND	0.18	ND	0.045	
75-34-3	1,1-Dichloroethane	ND	0.18	ND	0.044	
1634-04-4	Methyl tert-Butyl Ether	ND	0.86	ND	0.24	
108-05-4	Vinyl Acetate	ND	8.2	ND	2.3	
78-93-3	2-Butanone (MEK)	ND	1.6	ND	0.55	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

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Client: NYS Department of Environmental Conservation

Client Sample ID: Building-1-SS1-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-002

Test Code: EPA TO-15

Date Collected: 4/7/22

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 4/8/22

Analyst: Simon Cao

Date Analyzed: 4/14/22

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC02308

Initial Pressure (psig): -3.15 Final Pressure (psig): 4.10

Canister Dilution Factor: 1.63

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	0.74	0.18	0.19	0.045	
141-78-6	Ethyl Acetate	180	3.4	51	0.95	
110-54-3	n-Hexane	1.5	0.86	0.41	0.25	
67-66-3	Chloroform	1.4	0.18	0.29	0.037	
109-99-9	Tetrahydrofuran (THF)	1.8	1.6	0.61	0.55	
107-06-2	1,2-Dichloroethane	ND	0.18	ND	0.044	
71-55-6	1,1,1-Trichloroethane	0.37	0.18	0.068	0.033	
71-43-2	Benzene	1.3	0.18	0.42	0.056	
56-23-5	Carbon Tetrachloride	0.74	0.18	0.12	0.029	
110-82-7	Cyclohexane	ND	1.8	ND	0.52	
78-87-5	1,2-Dichloropropane	ND	0.18	ND	0.039	
75-27-4	Bromodichloromethane	ND	0.18	ND	0.027	
79-01-6	Trichloroethene	2.5	0.18	0.47	0.033	
123-91-1	1,4-Dioxane	ND	0.85	ND	0.24	
80-62-6	Methyl Methacrylate	ND	1.8	ND	0.44	
142-82-5	n-Heptane	1.2	0.86	0.29	0.21	
10061-01-5	cis-1,3-Dichloropropene	ND	0.86	ND	0.19	
108-10-1	4-Methyl-2-pentanone	ND	1.8	ND	0.44	
10061-02-6	trans-1,3-Dichloropropene	ND	0.83	ND	0.18	
79-00-5	1,1,2-Trichloroethane	ND	0.18	ND	0.033	
108-88-3	Toluene	13	0.85	3.5	0.23	
591-78-6	2-Hexanone	ND	1.8	ND	0.44	
124-48-1	Dibromochloromethane	ND	0.18	ND	0.021	
106-93-4	1,2-Dibromoethane	ND	0.18	ND	0.023	
123-86-4	n-Butyl Acetate	ND	1.8	ND	0.38	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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

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Client: NYS Department of Environmental Conservation

Client Sample ID: Building-1-SS1-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-002

Test Code: EPA TO-15

Date Collected: 4/7/22

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 4/8/22

Analyst: Simon Cao

Date Analyzed: 4/14/22

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC02308

Initial Pressure (psig): -3.15 Final Pressure (psig): 4.10

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.86	ND	0.18	
127-18-4	Tetrachloroethene	88	0.18	13	0.026	
108-90-7	Chlorobenzene	ND	0.85	ND	0.18	
100-41-4	Ethylbenzene	1.6	0.85	0.37	0.20	
179601-23-1	m,p-Xylenes	6.2	1.8	1.4	0.41	
75-25-2	Bromoform	ND	0.85	ND	0.082	
100-42-5	Styrene	ND	0.85	ND	0.20	
95-47-6	o-Xylene	2.0	0.85	0.46	0.20	
111-84-2	n-Nonane	ND	0.85	ND	0.16	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.18	ND	0.026	
98-82-8	Cumene	ND	0.85	ND	0.17	
80-56-8	alpha-Pinene	ND	0.88	ND	0.16	
103-65-1	n-Propylbenzene	ND	0.86	ND	0.18	
622-96-8	4-Ethyltoluene	ND	0.86	ND	0.18	
108-67-8	1,3,5-Trimethylbenzene	ND	0.85	ND	0.17	
95-63-6	1,2,4-Trimethylbenzene	1.3	0.85	0.27	0.17	
100-44-7	Benzyl Chloride	ND	1.8	ND	0.35	
541-73-1	1,3-Dichlorobenzene	ND	0.85	ND	0.14	
106-46-7	1,4-Dichlorobenzene	ND	0.85	ND	0.14	
95-50-1	1,2-Dichlorobenzene	ND	0.86	ND	0.14	
5989-27-5	d-Limonene	ND	0.85	ND	0.15	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.6	ND	0.17	
120-82-1	1,2,4-Trichlorobenzene	ND	1.6	ND	0.22	
91-20-3	Naphthalene	ND	0.85	ND	0.16	
87-68-3	Hexachlorobutadiene	ND	0.85	ND	0.079	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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

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Client: NYS Department of Environmental Conservation
Client Sample ID: Building-1-IA-040722
Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602
 ALS Sample ID: P2201602-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS00848

Date Collected: 4/7/22
 Date Received: 4/8/22
 Date Analyzed: 4/14/22
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.33 Final Pressure (psig): 4.26

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	8.3	0.66	4.8	0.38	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	0.67	0.48	0.14	
74-87-3	Chloromethane	0.57	0.26	0.28	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.68	ND	0.097	
75-01-4	Vinyl Chloride	ND	0.14	ND	0.054	
106-99-0	1,3-Butadiene	ND	0.26	ND	0.12	
74-83-9	Bromomethane	ND	0.26	ND	0.068	
75-00-3	Chloroethane	ND	0.26	ND	0.10	
64-17-5	Ethanol	310	6.3	170	3.3	
75-05-8	Acetonitrile	ND	1.3	ND	0.75	
107-02-8	Acrolein	1.3	1.3	0.57	0.55	
67-64-1	Acetone	48	6.6	20	2.8	
75-69-4	Trichlorofluoromethane (CFC 11)	1.1	0.66	0.20	0.12	
67-63-0	2-Propanol (Isopropyl Alcohol)	28	1.3	11	0.51	
107-13-1	Acrylonitrile	ND	1.3	ND	0.58	
75-35-4	1,1-Dichloroethene	ND	0.14	ND	0.035	
75-09-2	Methylene Chloride	1.0	0.66	0.30	0.19	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.67	ND	0.21	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.68	ND	0.089	
75-15-0	Carbon Disulfide	ND	1.4	ND	0.45	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	ND	0.035	
75-34-3	1,1-Dichloroethane	ND	0.14	ND	0.034	
1634-04-4	Methyl tert-Butyl Ether	ND	0.67	ND	0.19	
108-05-4	Vinyl Acetate	ND	6.3	ND	1.8	
78-93-3	2-Butanone (MEK)	8.4	1.3	2.8	0.43	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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

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Client: NYS Department of Environmental Conservation

Client Sample ID: Building-1-IA-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00848

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14/22

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.33 Final Pressure (psig): 4.26

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.14	ND	0.035	
141-78-6	Ethyl Acetate	72	2.6	20	0.73	
110-54-3	n-Hexane	3.6	0.67	1.0	0.19	
67-66-3	Chloroform	0.38	0.14	0.077	0.028	
109-99-9	Tetrahydrofuran (THF)	13	1.3	4.3	0.43	
107-06-2	1,2-Dichloroethane	ND	0.14	ND	0.034	
71-55-6	1,1,1-Trichloroethane	0.28	0.14	0.052	0.025	
71-43-2	Benzene	2.5	0.14	0.79	0.043	
56-23-5	Carbon Tetrachloride	0.63	0.14	0.10	0.022	
110-82-7	Cyclohexane	1.8	1.4	0.53	0.40	
78-87-5	1,2-Dichloropropane	ND	0.14	ND	0.030	
75-27-4	Bromodichloromethane	ND	0.14	ND	0.021	
79-01-6	Trichloroethene	ND	0.14	ND	0.026	
123-91-1	1,4-Dioxane	ND	0.66	ND	0.18	
80-62-6	Methyl Methacrylate	ND	1.4	ND	0.34	
142-82-5	n-Heptane	2.6	0.67	0.63	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.67	ND	0.15	
108-10-1	4-Methyl-2-pentanone	ND	1.4	ND	0.34	
10061-02-6	trans-1,3-Dichloropropene	ND	0.64	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.14	ND	0.025	
108-88-3	Toluene	18	0.66	4.7	0.17	
591-78-6	2-Hexanone	ND	1.4	ND	0.34	
124-48-1	Dibromochloromethane	ND	0.14	ND	0.016	
106-93-4	1,2-Dibromoethane	ND	0.14	ND	0.018	
123-86-4	n-Butyl Acetate	ND	1.4	ND	0.29	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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

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Client: NYS Department of Environmental Conservation

Client Sample ID: Building-1-IA-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00848

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14/22

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.33 Final Pressure (psig): 4.26

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	1.3	0.67	0.27	0.14	
127-18-4	Tetrachloroethene	4.9	0.14	0.72	0.020	
108-90-7	Chlorobenzene	ND	0.66	ND	0.14	
100-41-4	Ethylbenzene	2.1	0.66	0.49	0.15	
179601-23-1	m,p-Xylenes	7.6	1.4	1.7	0.32	
75-25-2	Bromoform	ND	0.66	ND	0.063	
100-42-5	Styrene	0.77	0.66	0.18	0.15	
95-47-6	o-Xylene	2.6	0.66	0.59	0.15	
111-84-2	n-Nonane	1.6	0.66	0.31	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	ND	0.020	
98-82-8	Cumene	ND	0.66	ND	0.13	
80-56-8	alpha-Pinene	2.9	0.68	0.52	0.12	
103-65-1	n-Propylbenzene	ND	0.67	ND	0.14	
622-96-8	4-Ethyltoluene	0.81	0.67	0.17	0.14	
108-67-8	1,3,5-Trimethylbenzene	0.76	0.66	0.16	0.13	
95-63-6	1,2,4-Trimethylbenzene	2.7	0.66	0.55	0.13	
100-44-7	Benzyl Chloride	ND	1.4	ND	0.27	
541-73-1	1,3-Dichlorobenzene	ND	0.66	ND	0.11	
106-46-7	1,4-Dichlorobenzene	ND	0.66	ND	0.11	
95-50-1	1,2-Dichlorobenzene	ND	0.67	ND	0.11	
5989-27-5	d-Limonene	9.7	0.66	1.7	0.12	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.3	ND	0.13	
120-82-1	1,2,4-Trichlorobenzene	ND	1.3	ND	0.17	
91-20-3	Naphthalene	ND	0.66	ND	0.13	
87-68-3	Hexachlorobutadiene	ND	0.66	ND	0.061	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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

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Client: NYS Department of Environmental Conservation

Client Sample ID: Building-1-SS2-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02152

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14/22

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.41 Final Pressure (psig): 4.33

Canister Dilution Factor: 1.26

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	1.8	0.66	1.0	0.38	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	0.67	0.48	0.14	
74-87-3	Chloromethane	ND	0.26	ND	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.68	ND	0.097	
75-01-4	Vinyl Chloride	ND	0.14	ND	0.054	
106-99-0	1,3-Butadiene	ND	0.26	ND	0.12	
74-83-9	Bromomethane	ND	0.26	ND	0.068	
75-00-3	Chloroethane	ND	0.26	ND	0.10	
64-17-5	Ethanol	17	6.3	8.9	3.3	
75-05-8	Acetonitrile	ND	1.3	ND	0.75	
107-02-8	Acrolein	ND	1.3	ND	0.55	
67-64-1	Acetone	15	6.6	6.1	2.8	
75-69-4	Trichlorofluoromethane (CFC 11)	1.2	0.66	0.21	0.12	
67-63-0	2-Propanol (Isopropyl Alcohol)	5.7	1.3	2.3	0.51	
107-13-1	Acrylonitrile	ND	1.3	ND	0.58	
75-35-4	1,1-Dichloroethene	ND	0.14	ND	0.035	
75-09-2	Methylene Chloride	ND	0.66	ND	0.19	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.67	ND	0.21	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.68	ND	0.089	
75-15-0	Carbon Disulfide	ND	1.4	ND	0.45	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	ND	0.035	
75-34-3	1,1-Dichloroethane	ND	0.14	ND	0.034	
1634-04-4	Methyl tert-Butyl Ether	ND	0.67	ND	0.19	
108-05-4	Vinyl Acetate	ND	6.3	ND	1.8	
78-93-3	2-Butanone (MEK)	2.0	1.3	0.67	0.43	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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

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Client: NYS Department of Environmental Conservation

Client Sample ID: Building-1-SS2-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-004

Test Code: EPA TO-15

Date Collected: 4/7/22

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 4/8/22

Analyst: Simon Cao

Date Analyzed: 4/14/22

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC02152

Initial Pressure (psig): 0.41 Final Pressure (psig): 4.33

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.14	ND	0.035	
141-78-6	Ethyl Acetate	63	2.6	18	0.73	
110-54-3	n-Hexane	1.3	0.67	0.38	0.19	
67-66-3	Chloroform	0.33	0.14	0.067	0.028	
109-99-9	Tetrahydrofuran (THF)	2.2	1.3	0.74	0.43	
107-06-2	1,2-Dichloroethane	ND	0.14	ND	0.034	
71-55-6	1,1,1-Trichloroethane	0.41	0.14	0.076	0.025	
71-43-2	Benzene	0.93	0.14	0.29	0.043	
56-23-5	Carbon Tetrachloride	0.69	0.14	0.11	0.022	
110-82-7	Cyclohexane	ND	1.4	ND	0.40	
78-87-5	1,2-Dichloropropane	ND	0.14	ND	0.030	
75-27-4	Bromodichloromethane	ND	0.14	ND	0.021	
79-01-6	Trichloroethene	ND	0.14	ND	0.026	
123-91-1	1,4-Dioxane	ND	0.66	ND	0.18	
80-62-6	Methyl Methacrylate	ND	1.4	ND	0.34	
142-82-5	n-Heptane	1.1	0.67	0.26	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.67	ND	0.15	
108-10-1	4-Methyl-2-pentanone	ND	1.4	ND	0.34	
10061-02-6	trans-1,3-Dichloropropene	ND	0.64	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.14	ND	0.025	
108-88-3	Toluene	8.5	0.66	2.2	0.17	
591-78-6	2-Hexanone	ND	1.4	ND	0.34	
124-48-1	Dibromochloromethane	ND	0.14	ND	0.016	
106-93-4	1,2-Dibromoethane	ND	0.14	ND	0.018	
123-86-4	n-Butyl Acetate	ND	1.4	ND	0.29	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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

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Client: NYS Department of Environmental Conservation

Client Sample ID: Building-1-SS2-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-004

Test Code: EPA TO-15

Date Collected: 4/7/22

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 4/8/22

Analyst: Simon Cao

Date Analyzed: 4/14/22

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC02152

Initial Pressure (psig): 0.41 Final Pressure (psig): 4.33

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.67	ND	0.14	
127-18-4	Tetrachloroethene	12	0.14	1.7	0.020	
108-90-7	Chlorobenzene	ND	0.66	ND	0.14	
100-41-4	Ethylbenzene	1.1	0.66	0.25	0.15	
179601-23-1	m,p-Xylenes	4.3	1.4	0.99	0.32	
75-25-2	Bromoform	ND	0.66	ND	0.063	
100-42-5	Styrene	ND	0.66	ND	0.15	
95-47-6	o-Xylene	1.4	0.66	0.33	0.15	
111-84-2	n-Nonane	ND	0.66	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	ND	0.020	
98-82-8	Cumene	ND	0.66	ND	0.13	
80-56-8	alpha-Pinene	ND	0.68	ND	0.12	
103-65-1	n-Propylbenzene	ND	0.67	ND	0.14	
622-96-8	4-Ethyltoluene	ND	0.67	ND	0.14	
108-67-8	1,3,5-Trimethylbenzene	ND	0.66	ND	0.13	
95-63-6	1,2,4-Trimethylbenzene	1.0	0.66	0.21	0.13	
100-44-7	Benzyl Chloride	ND	1.4	ND	0.27	
541-73-1	1,3-Dichlorobenzene	ND	0.66	ND	0.11	
106-46-7	1,4-Dichlorobenzene	ND	0.66	ND	0.11	
95-50-1	1,2-Dichlorobenzene	ND	0.67	ND	0.11	
5989-27-5	d-Limonene	1.2	0.66	0.21	0.12	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.3	ND	0.13	
120-82-1	1,2,4-Trichlorobenzene	ND	1.3	ND	0.17	
91-20-3	Naphthalene	ND	0.66	ND	0.13	
87-68-3	Hexachlorobutadiene	ND	0.66	ND	0.061	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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

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Client: NYS Department of Environmental Conservation

Client Sample ID: Building-2-SS1-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-005

Test Code: EPA TO-15

Date Collected: 4/7/22

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 4/8/22

Analyst: Simon Cao

Date Analyzed: 4/14/22

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC02365

Initial Pressure (psig): 0.44 Final Pressure (psig): 4.02

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	3.7	0.64	2.1	0.37	
75-71-8	Dichlorodifluoromethane (CFC 12)	4.9	0.66	1.0	0.13	
74-87-3	Chloromethane	ND	0.26	ND	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.67	ND	0.096	
75-01-4	Vinyl Chloride	ND	0.14	ND	0.053	
106-99-0	1,3-Butadiene	ND	0.26	ND	0.12	
74-83-9	Bromomethane	ND	0.26	ND	0.067	
75-00-3	Chloroethane	ND	0.26	ND	0.099	
64-17-5	Ethanol	81	6.2	43	3.3	
75-05-8	Acetonitrile	ND	1.2	ND	0.74	
107-02-8	Acrolein	ND	1.2	ND	0.54	
67-64-1	Acetone	23	6.4	9.8	2.7	
75-69-4	Trichlorofluoromethane (CFC 11)	4.3	0.64	0.76	0.11	
67-63-0	2-Propanol (Isopropyl Alcohol)	19	1.2	7.8	0.50	
107-13-1	Acrylonitrile	ND	1.2	ND	0.57	
75-35-4	1,1-Dichloroethene	ND	0.14	ND	0.034	
75-09-2	Methylene Chloride	0.86	0.64	0.25	0.19	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.66	ND	0.21	
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.81	0.67	0.11	0.087	
75-15-0	Carbon Disulfide	ND	1.4	ND	0.44	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	ND	0.034	
75-34-3	1,1-Dichloroethane	ND	0.14	ND	0.034	
1634-04-4	Methyl tert-Butyl Ether	ND	0.66	ND	0.18	
108-05-4	Vinyl Acetate	ND	6.2	ND	1.8	
78-93-3	2-Butanone (MEK)	ND	1.2	ND	0.42	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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

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Client: NYS Department of Environmental Conservation

Client Sample ID: Building-2-SS1-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02365

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14/22

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.44 Final Pressure (psig): 4.02

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.14	ND	0.034	
141-78-6	Ethyl Acetate	ND	2.6	ND	0.72	
110-54-3	n-Hexane	ND	0.66	ND	0.19	
67-66-3	Chloroform	0.39	0.14	0.081	0.028	
109-99-9	Tetrahydrofuran (THF)	ND	1.2	ND	0.42	
107-06-2	1,2-Dichloroethane	ND	0.14	ND	0.034	
71-55-6	1,1,1-Trichloroethane	2.8	0.14	0.52	0.025	
71-43-2	Benzene	0.31	0.14	0.096	0.043	
56-23-5	Carbon Tetrachloride	1.2	0.14	0.20	0.022	
110-82-7	Cyclohexane	ND	1.4	ND	0.40	
78-87-5	1,2-Dichloropropane	ND	0.14	ND	0.030	
75-27-4	Bromodichloromethane	ND	0.14	ND	0.020	
79-01-6	Trichloroethene	ND	0.14	ND	0.025	
123-91-1	1,4-Dioxane	ND	0.64	ND	0.18	
80-62-6	Methyl Methacrylate	3.5	1.4	0.84	0.33	
142-82-5	n-Heptane	ND	0.66	ND	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.66	ND	0.14	
108-10-1	4-Methyl-2-pentanone	ND	1.4	ND	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	0.63	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.14	ND	0.025	
108-88-3	Toluene	16	0.64	4.3	0.17	
591-78-6	2-Hexanone	ND	1.4	ND	0.33	
124-48-1	Dibromochloromethane	ND	0.14	ND	0.016	
106-93-4	1,2-Dibromoethane	ND	0.14	ND	0.018	
123-86-4	n-Butyl Acetate	ND	1.4	ND	0.29	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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

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Client: NYS Department of Environmental Conservation

Client Sample ID: Building-2-SS1-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-005

Test Code: EPA TO-15

Date Collected: 4/7/22

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 4/8/22

Analyst: Simon Cao

Date Analyzed: 4/14/22

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC02365

Initial Pressure (psig): 0.44 Final Pressure (psig): 4.02

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.66	ND	0.14	
127-18-4	Tetrachloroethene	0.73	0.14	0.11	0.020	
108-90-7	Chlorobenzene	ND	0.64	ND	0.14	
100-41-4	Ethylbenzene	ND	0.64	ND	0.15	
179601-23-1	m,p-Xylenes	2.2	1.4	0.51	0.31	
75-25-2	Bromoform	ND	0.64	ND	0.062	
100-42-5	Styrene	ND	0.64	ND	0.15	
95-47-6	o-Xylene	0.71	0.64	0.16	0.15	
111-84-2	n-Nonane	ND	0.64	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	ND	0.020	
98-82-8	Cumene	ND	0.64	ND	0.13	
80-56-8	alpha-Pinene	1.3	0.67	0.23	0.12	
103-65-1	n-Propylbenzene	ND	0.66	ND	0.13	
622-96-8	4-Ethyltoluene	ND	0.66	ND	0.13	
108-67-8	1,3,5-Trimethylbenzene	ND	0.64	ND	0.13	
95-63-6	1,2,4-Trimethylbenzene	ND	0.64	ND	0.13	
100-44-7	Benzyl Chloride	ND	1.4	ND	0.26	
541-73-1	1,3-Dichlorobenzene	ND	0.64	ND	0.11	
106-46-7	1,4-Dichlorobenzene	ND	0.64	ND	0.11	
95-50-1	1,2-Dichlorobenzene	ND	0.66	ND	0.11	
5989-27-5	d-Limonene	1.3	0.64	0.23	0.12	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.2	ND	0.13	
120-82-1	1,2,4-Trichlorobenzene	ND	1.2	ND	0.17	
91-20-3	Naphthalene	ND	0.64	ND	0.12	
87-68-3	Hexachlorobutadiene	ND	0.64	ND	0.060	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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

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Client: NYS Department of Environmental Conservation
Client Sample ID: Building-2-IA-040722
Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602
 ALS Sample ID: P2201602-006

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao/Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01687

Date Collected: 4/7/22
 Date Received: 4/8/22
 Date Analyzed: 4/14 - 4/15/22
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -0.03 Final Pressure (psig): 4.00

Canister Dilution Factor: 1.27

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	26	0.66	15	0.38	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.1	0.67	0.62	0.14	
74-87-3	Chloromethane	0.57	0.27	0.28	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.69	ND	0.098	
75-01-4	Vinyl Chloride	ND	0.14	ND	0.055	
106-99-0	1,3-Butadiene	ND	0.27	ND	0.12	
74-83-9	Bromomethane	ND	0.27	ND	0.069	
75-00-3	Chloroethane	ND	0.27	ND	0.10	
64-17-5	Ethanol	1,100	64	560	34	D
75-05-8	Acetonitrile	ND	1.3	ND	0.76	
107-02-8	Acrolein	1.6	1.3	0.70	0.55	
67-64-1	Acetone	57	6.6	24	2.8	
75-69-4	Trichlorofluoromethane (CFC 11)	1.9	0.66	0.33	0.12	
67-63-0	2-Propanol (Isopropyl Alcohol)	200	1.3	80	0.52	
107-13-1	Acrylonitrile	ND	1.3	ND	0.59	
75-35-4	1,1-Dichloroethene	ND	0.14	ND	0.035	
75-09-2	Methylene Chloride	1.2	0.66	0.36	0.19	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.67	ND	0.22	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.69	ND	0.090	
75-15-0	Carbon Disulfide	ND	1.4	ND	0.45	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	ND	0.035	
75-34-3	1,1-Dichloroethane	ND	0.14	ND	0.035	
1634-04-4	Methyl tert-Butyl Ether	ND	0.67	ND	0.19	
108-05-4	Vinyl Acetate	ND	6.4	ND	1.8	
78-93-3	2-Butanone (MEK)	3.5	1.3	1.2	0.43	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: NYS Department of Environmental Conservation

Client Sample ID: Building-2-IA-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao/Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01687

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14 - 4/15/22

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -0.03 Final Pressure (psig): 4.00

Canister Dilution Factor: 1.27

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.14	ND	0.035	
141-78-6	Ethyl Acetate	3.6	2.7	0.99	0.74	
110-54-3	n-Hexane	0.69	0.67	0.20	0.19	
67-66-3	Chloroform	0.59	0.14	0.12	0.029	
109-99-9	Tetrahydrofuran (THF)	ND	1.3	ND	0.43	
107-06-2	1,2-Dichloroethane	0.16	0.14	0.040	0.035	
71-55-6	1,1,1-Trichloroethane	1.1	0.14	0.20	0.026	
71-43-2	Benzene	0.60	0.14	0.19	0.044	
56-23-5	Carbon Tetrachloride	0.62	0.14	0.098	0.022	
110-82-7	Cyclohexane	ND	1.4	ND	0.41	
78-87-5	1,2-Dichloropropane	ND	0.14	ND	0.030	
75-27-4	Bromodichloromethane	ND	0.14	ND	0.021	
79-01-6	Trichloroethene	ND	0.14	ND	0.026	
123-91-1	1,4-Dioxane	ND	0.66	ND	0.18	
80-62-6	Methyl Methacrylate	12	1.4	2.8	0.34	
142-82-5	n-Heptane	0.92	0.67	0.22	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.67	ND	0.15	
108-10-1	4-Methyl-2-pentanone	ND	1.4	ND	0.34	
10061-02-6	trans-1,3-Dichloropropene	ND	0.65	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.14	ND	0.026	
108-88-3	Toluene	25	0.66	6.6	0.18	
591-78-6	2-Hexanone	ND	1.4	ND	0.34	
124-48-1	Dibromochloromethane	ND	0.14	ND	0.016	
106-93-4	1,2-Dibromoethane	ND	0.14	ND	0.018	
123-86-4	n-Butyl Acetate	ND	1.4	ND	0.29	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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

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Client: NYS Department of Environmental Conservation

Client Sample ID: Building-2-IA-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao/Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01687

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14 - 4/15/22

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -0.03 Final Pressure (psig): 4.00

Canister Dilution Factor: 1.27

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.67	ND	0.14	
127-18-4	Tetrachloroethene	0.27	0.14	0.040	0.021	
108-90-7	Chlorobenzene	ND	0.66	ND	0.14	
100-41-4	Ethylbenzene	0.92	0.66	0.21	0.15	
179601-23-1	m,p-Xylenes	2.9	1.4	0.67	0.32	
75-25-2	Bromoform	ND	0.66	ND	0.064	
100-42-5	Styrene	ND	0.66	ND	0.16	
95-47-6	o-Xylene	0.94	0.66	0.22	0.15	
111-84-2	n-Nonane	ND	0.66	ND	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	ND	0.020	
98-82-8	Cumene	ND	0.66	ND	0.13	
80-56-8	alpha-Pinene	5.8	0.69	1.0	0.12	
103-65-1	n-Propylbenzene	ND	0.67	ND	0.14	
622-96-8	4-Ethyltoluene	ND	0.67	ND	0.14	
108-67-8	1,3,5-Trimethylbenzene	ND	0.66	ND	0.13	
95-63-6	1,2,4-Trimethylbenzene	1.2	0.66	0.25	0.13	
100-44-7	Benzyl Chloride	ND	1.4	ND	0.27	
541-73-1	1,3-Dichlorobenzene	ND	0.66	ND	0.11	
106-46-7	1,4-Dichlorobenzene	ND	0.66	ND	0.11	
95-50-1	1,2-Dichlorobenzene	ND	0.67	ND	0.11	
5989-27-5	d-Limonene	4.9	0.66	0.89	0.12	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.3	ND	0.13	
120-82-1	1,2,4-Trichlorobenzene	ND	1.3	ND	0.17	
91-20-3	Naphthalene	ND	0.66	ND	0.13	
87-68-3	Hexachlorobutadiene	ND	0.66	ND	0.062	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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

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Client: NYS Department of Environmental Conservation

Client Sample ID: Building-2-SS2-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC01564

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14/22

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.85 Final Pressure (psig): 4.05

Canister Dilution Factor: 1.46

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	11	0.76	6.6	0.44	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.9	0.77	0.59	0.16	
74-87-3	Chloromethane	ND	0.31	ND	0.15	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.79	ND	0.11	
75-01-4	Vinyl Chloride	ND	0.16	ND	0.063	
106-99-0	1,3-Butadiene	ND	0.31	ND	0.14	
74-83-9	Bromomethane	ND	0.31	ND	0.079	
75-00-3	Chloroethane	ND	0.31	ND	0.12	
64-17-5	Ethanol	96	7.3	51	3.9	
75-05-8	Acetonitrile	ND	1.5	ND	0.87	
107-02-8	Acrolein	ND	1.5	ND	0.64	
67-64-1	Acetone	22	7.6	9.3	3.2	
75-69-4	Trichlorofluoromethane (CFC 11)	1.7	0.76	0.31	0.14	
67-63-0	2-Propanol (Isopropyl Alcohol)	59	1.5	24	0.59	
107-13-1	Acrylonitrile	ND	1.5	ND	0.67	
75-35-4	1,1-Dichloroethene	ND	0.16	ND	0.041	
75-09-2	Methylene Chloride	ND	0.76	ND	0.22	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.77	ND	0.25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.79	ND	0.10	
75-15-0	Carbon Disulfide	ND	1.6	ND	0.52	
156-60-5	trans-1,2-Dichloroethene	ND	0.16	ND	0.041	
75-34-3	1,1-Dichloroethane	ND	0.16	ND	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	0.77	ND	0.21	
108-05-4	Vinyl Acetate	ND	7.3	ND	2.1	
78-93-3	2-Butanone (MEK)	1.8	1.5	0.62	0.50	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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

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Client: NYS Department of Environmental Conservation

Client Sample ID: Building-2-SS2-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC01564

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14/22

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.85 Final Pressure (psig): 4.05

Canister Dilution Factor: 1.46

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	0.53	0.16	0.13	0.041	
141-78-6	Ethyl Acetate	4.2	3.1	1.2	0.85	
110-54-3	n-Hexane	ND	0.77	ND	0.22	
67-66-3	Chloroform	0.59	0.16	0.12	0.033	
109-99-9	Tetrahydrofuran (THF)	ND	1.5	ND	0.50	
107-06-2	1,2-Dichloroethane	ND	0.16	ND	0.040	
71-55-6	1,1,1-Trichloroethane	0.90	0.16	0.17	0.029	
71-43-2	Benzene	0.31	0.16	0.096	0.050	
56-23-5	Carbon Tetrachloride	0.51	0.16	0.081	0.026	
110-82-7	Cyclohexane	ND	1.6	ND	0.47	
78-87-5	1,2-Dichloropropane	ND	0.16	ND	0.035	
75-27-4	Bromodichloromethane	ND	0.16	ND	0.024	
79-01-6	Trichloroethene	1.5	0.16	0.29	0.030	
123-91-1	1,4-Dioxane	ND	0.76	ND	0.21	
80-62-6	Methyl Methacrylate	1.7	1.6	0.41	0.39	
142-82-5	n-Heptane	ND	0.77	ND	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	0.77	ND	0.17	
108-10-1	4-Methyl-2-pentanone	ND	1.6	ND	0.39	
10061-02-6	trans-1,3-Dichloropropene	ND	0.74	ND	0.16	
79-00-5	1,1,2-Trichloroethane	ND	0.16	ND	0.029	
108-88-3	Toluene	6.1	0.76	1.6	0.20	
591-78-6	2-Hexanone	ND	1.6	ND	0.39	
124-48-1	Dibromochloromethane	ND	0.16	ND	0.019	
106-93-4	1,2-Dibromoethane	ND	0.16	ND	0.021	
123-86-4	n-Butyl Acetate	ND	1.6	ND	0.34	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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

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Client: NYS Department of Environmental Conservation

Client Sample ID: Building-2-SS2-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-007

Test Code: EPA TO-15

Date Collected: 4/7/22

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 4/8/22

Analyst: Simon Cao

Date Analyzed: 4/14/22

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC01564

Initial Pressure (psig): -1.85 Final Pressure (psig): 4.05

Canister Dilution Factor: 1.46

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.77	ND	0.17	
127-18-4	Tetrachloroethene	48	0.16	7.1	0.024	
108-90-7	Chlorobenzene	ND	0.76	ND	0.16	
100-41-4	Ethylbenzene	ND	0.76	ND	0.17	
179601-23-1	m,p-Xylenes	1.8	1.6	0.41	0.37	
75-25-2	Bromoform	ND	0.76	ND	0.073	
100-42-5	Styrene	ND	0.76	ND	0.18	
95-47-6	o-Xylene	ND	0.76	ND	0.17	
111-84-2	n-Nonane	ND	0.76	ND	0.14	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	ND	0.023	
98-82-8	Cumene	ND	0.76	ND	0.15	
80-56-8	alpha-Pinene	0.98	0.79	0.18	0.14	
103-65-1	n-Propylbenzene	ND	0.77	ND	0.16	
622-96-8	4-Ethyltoluene	ND	0.77	ND	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND	0.76	ND	0.15	
95-63-6	1,2,4-Trimethylbenzene	ND	0.76	ND	0.15	
100-44-7	Benzyl Chloride	ND	1.6	ND	0.31	
541-73-1	1,3-Dichlorobenzene	ND	0.76	ND	0.13	
106-46-7	1,4-Dichlorobenzene	ND	0.76	ND	0.13	
95-50-1	1,2-Dichlorobenzene	ND	0.77	ND	0.13	
5989-27-5	d-Limonene	1.3	0.76	0.24	0.14	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.5	ND	0.15	
120-82-1	1,2,4-Trichlorobenzene	ND	1.5	ND	0.20	
91-20-3	Naphthalene	ND	0.76	ND	0.14	
87-68-3	Hexachlorobutadiene	ND	0.76	ND	0.071	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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

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Client: NYS Department of Environmental Conservation

Client Sample ID: Building-3-IA-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao/Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02099

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14 - 4/15/22

Volume(s) Analyzed: 1.00 Liter(s)

0.20 Liter(s)

Initial Pressure (psig): 0.43 Final Pressure (psig): 4.30

Canister Dilution Factor: 1.26

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	5.7	0.66	3.3	0.38	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	0.67	0.49	0.14	
74-87-3	Chloromethane	0.57	0.26	0.27	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.68	ND	0.097	
75-01-4	Vinyl Chloride	ND	0.14	ND	0.054	
106-99-0	1,3-Butadiene	1.0	0.26	0.46	0.12	
74-83-9	Bromomethane	ND	0.26	ND	0.068	
75-00-3	Chloroethane	ND	0.26	ND	0.10	
64-17-5	Ethanol	490	32	260	17	D
75-05-8	Acetonitrile	ND	1.3	ND	0.75	
107-02-8	Acrolein	ND	1.3	ND	0.55	
67-64-1	Acetone	16	6.6	6.6	2.8	
75-69-4	Trichlorofluoromethane (CFC 11)	2.4	0.66	0.42	0.12	
67-63-0	2-Propanol (Isopropyl Alcohol)	12	1.3	4.9	0.51	
107-13-1	Acrylonitrile	ND	1.3	ND	0.58	
75-35-4	1,1-Dichloroethene	ND	0.14	ND	0.035	
75-09-2	Methylene Chloride	ND	0.66	ND	0.19	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.67	ND	0.21	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.68	ND	0.089	
75-15-0	Carbon Disulfide	ND	1.4	ND	0.45	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	ND	0.035	
75-34-3	1,1-Dichloroethane	ND	0.14	ND	0.034	
1634-04-4	Methyl tert-Butyl Ether	ND	0.67	ND	0.19	
108-05-4	Vinyl Acetate	ND	6.3	ND	1.8	
78-93-3	2-Butanone (MEK)	1.7	1.3	0.58	0.43	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: NYS Department of Environmental Conservation

Client Sample ID: Building-3-IA-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao/Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02099

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14 - 4/15/22

Volume(s) Analyzed: 1.00 Liter(s)

0.20 Liter(s)

Initial Pressure (psig): 0.43 Final Pressure (psig): 4.30

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.14	ND	0.035	
141-78-6	Ethyl Acetate	18	2.6	5.1	0.73	
110-54-3	n-Hexane	2.3	0.67	0.65	0.19	
67-66-3	Chloroform	0.37	0.14	0.075	0.028	
109-99-9	Tetrahydrofuran (THF)	ND	1.3	ND	0.43	
107-06-2	1,2-Dichloroethane	ND	0.14	ND	0.034	
71-55-6	1,1,1-Trichloroethane	ND	0.14	ND	0.025	
71-43-2	Benzene	2.2	0.14	0.69	0.043	
56-23-5	Carbon Tetrachloride	0.38	0.14	0.060	0.022	
110-82-7	Cyclohexane	ND	1.4	ND	0.40	
78-87-5	1,2-Dichloropropane	ND	0.14	ND	0.030	
75-27-4	Bromodichloromethane	0.16	0.14	0.024	0.021	
79-01-6	Trichloroethene	ND	0.14	ND	0.026	
123-91-1	1,4-Dioxane	ND	0.66	ND	0.18	
80-62-6	Methyl Methacrylate	ND	1.4	ND	0.34	
142-82-5	n-Heptane	1.5	0.67	0.37	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.67	ND	0.15	
108-10-1	4-Methyl-2-pentanone	ND	1.4	ND	0.34	
10061-02-6	trans-1,3-Dichloropropene	ND	0.64	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.14	ND	0.025	
108-88-3	Toluene	9.4	0.66	2.5	0.17	
591-78-6	2-Hexanone	ND	1.4	ND	0.34	
124-48-1	Dibromochloromethane	ND	0.14	ND	0.016	
106-93-4	1,2-Dibromoethane	ND	0.14	ND	0.018	
123-86-4	n-Butyl Acetate	ND	1.4	ND	0.29	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3 of 3

Client: NYS Department of Environmental Conservation

Client Sample ID: Building-3-IA-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao/Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02099

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14 - 4/15/22

Volume(s) Analyzed: 1.00 Liter(s)

0.20 Liter(s)

Initial Pressure (psig): 0.43 Final Pressure (psig): 4.30

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	1.1	0.67	0.23	0.14	
127-18-4	Tetrachloroethene	ND	0.14	ND	0.020	
108-90-7	Chlorobenzene	ND	0.66	ND	0.14	
100-41-4	Ethylbenzene	1.8	0.66	0.42	0.15	
179601-23-1	m,p-Xylenes	6.1	1.4	1.4	0.32	
75-25-2	Bromoform	ND	0.66	ND	0.063	
100-42-5	Styrene	ND	0.66	ND	0.15	
95-47-6	o-Xylene	2.3	0.66	0.52	0.15	
111-84-2	n-Nonane	0.86	0.66	0.16	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	ND	0.020	
98-82-8	Cumene	ND	0.66	ND	0.13	
80-56-8	alpha-Pinene	2.6	0.68	0.48	0.12	
103-65-1	n-Propylbenzene	ND	0.67	ND	0.14	
622-96-8	4-Ethyltoluene	ND	0.67	ND	0.14	
108-67-8	1,3,5-Trimethylbenzene	ND	0.66	ND	0.13	
95-63-6	1,2,4-Trimethylbenzene	1.8	0.66	0.36	0.13	
100-44-7	Benzyl Chloride	ND	1.4	ND	0.27	
541-73-1	1,3-Dichlorobenzene	ND	0.66	ND	0.11	
106-46-7	1,4-Dichlorobenzene	ND	0.66	ND	0.11	
95-50-1	1,2-Dichlorobenzene	ND	0.67	ND	0.11	
5989-27-5	d-Limonene	9.9	0.66	1.8	0.12	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.3	ND	0.13	
120-82-1	1,2,4-Trichlorobenzene	ND	1.3	ND	0.17	
91-20-3	Naphthalene	ND	0.66	ND	0.13	
87-68-3	Hexachlorobutadiene	ND	0.66	ND	0.061	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 1 of 3

Client: NYS Department of Environmental Conservation

Client Sample ID: Armonk-IA-DUP-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao/Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC01608

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14 - 4/15/22

Volume(s) Analyzed: 1.00 Liter(s)

0.20 Liter(s)

Initial Pressure (psig): 0.43 Final Pressure (psig): 4.07

Canister Dilution Factor: 1.24

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	5.5	0.64	3.2	0.37	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	0.66	0.49	0.13	
74-87-3	Chloromethane	0.56	0.26	0.27	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.67	ND	0.096	
75-01-4	Vinyl Chloride	ND	0.14	ND	0.053	
106-99-0	1,3-Butadiene	0.98	0.26	0.44	0.12	
74-83-9	Bromomethane	ND	0.26	ND	0.067	
75-00-3	Chloroethane	ND	0.26	ND	0.099	
64-17-5	Ethanol	480	31	250	16	D
75-05-8	Acetonitrile	ND	1.2	ND	0.74	
107-02-8	Acrolein	ND	1.2	ND	0.54	
67-64-1	Acetone	17	6.4	7.3	2.7	
75-69-4	Trichlorofluoromethane (CFC 11)	2.3	0.64	0.41	0.11	
67-63-0	2-Propanol (Isopropyl Alcohol)	12	1.2	4.7	0.50	
107-13-1	Acrylonitrile	ND	1.2	ND	0.57	
75-35-4	1,1-Dichloroethene	ND	0.14	ND	0.034	
75-09-2	Methylene Chloride	ND	0.64	ND	0.19	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.66	ND	0.21	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.67	ND	0.087	
75-15-0	Carbon Disulfide	ND	1.4	ND	0.44	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	ND	0.034	
75-34-3	1,1-Dichloroethane	ND	0.14	ND	0.034	
1634-04-4	Methyl tert-Butyl Ether	ND	0.66	ND	0.18	
108-05-4	Vinyl Acetate	ND	6.2	ND	1.8	
78-93-3	2-Butanone (MEK)	1.5	1.2	0.51	0.42	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: NYS Department of Environmental Conservation

Client Sample ID: Armonk-IA-DUP-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao/Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC01608

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14 - 4/15/22

Volume(s) Analyzed: 1.00 Liter(s)

0.20 Liter(s)

Initial Pressure (psig): 0.43 Final Pressure (psig): 4.07

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.14	ND	0.034	
141-78-6	Ethyl Acetate	16	2.6	4.5	0.72	
110-54-3	n-Hexane	2.0	0.66	0.58	0.19	
67-66-3	Chloroform	0.37	0.14	0.075	0.028	
109-99-9	Tetrahydrofuran (THF)	ND	1.2	ND	0.42	
107-06-2	1,2-Dichloroethane	ND	0.14	ND	0.034	
71-55-6	1,1,1-Trichloroethane	ND	0.14	ND	0.025	
71-43-2	Benzene	2.0	0.14	0.63	0.043	
56-23-5	Carbon Tetrachloride	0.40	0.14	0.064	0.022	
110-82-7	Cyclohexane	ND	1.4	ND	0.40	
78-87-5	1,2-Dichloropropane	ND	0.14	ND	0.030	
75-27-4	Bromodichloromethane	0.15	0.14	0.023	0.020	
79-01-6	Trichloroethene	ND	0.14	ND	0.025	
123-91-1	1,4-Dioxane	ND	0.64	ND	0.18	
80-62-6	Methyl Methacrylate	ND	1.4	ND	0.33	
142-82-5	n-Heptane	1.3	0.66	0.32	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.66	ND	0.14	
108-10-1	4-Methyl-2-pentanone	ND	1.4	ND	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	0.63	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.14	ND	0.025	
108-88-3	Toluene	7.3	0.64	1.9	0.17	
591-78-6	2-Hexanone	ND	1.4	ND	0.33	
124-48-1	Dibromochloromethane	ND	0.14	ND	0.016	
106-93-4	1,2-Dibromoethane	ND	0.14	ND	0.018	
123-86-4	n-Butyl Acetate	ND	1.4	ND	0.29	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3 of 3

Client: NYS Department of Environmental Conservation

Client Sample ID: Armonk-IA-DUP-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao/Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC01608

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14 - 4/15/22

Volume(s) Analyzed: 1.00 Liter(s)

0.20 Liter(s)

Initial Pressure (psig): 0.43 Final Pressure (psig): 4.07

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	0.92	0.66	0.20	0.14	
127-18-4	Tetrachloroethene	ND	0.14	ND	0.020	
108-90-7	Chlorobenzene	ND	0.64	ND	0.14	
100-41-4	Ethylbenzene	1.6	0.64	0.36	0.15	
179601-23-1	m,p-Xylenes	5.3	1.4	1.2	0.31	
75-25-2	Bromoform	ND	0.64	ND	0.062	
100-42-5	Styrene	ND	0.64	ND	0.15	
95-47-6	o-Xylene	2.0	0.64	0.45	0.15	
111-84-2	n-Nonane	0.85	0.64	0.16	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	ND	0.020	
98-82-8	Cumene	ND	0.64	ND	0.13	
80-56-8	alpha-Pinene	2.6	0.67	0.47	0.12	
103-65-1	n-Propylbenzene	ND	0.66	ND	0.13	
622-96-8	4-Ethyltoluene	ND	0.66	ND	0.13	
108-67-8	1,3,5-Trimethylbenzene	ND	0.64	ND	0.13	
95-63-6	1,2,4-Trimethylbenzene	1.9	0.64	0.38	0.13	
100-44-7	Benzyl Chloride	ND	1.4	ND	0.26	
541-73-1	1,3-Dichlorobenzene	ND	0.64	ND	0.11	
106-46-7	1,4-Dichlorobenzene	ND	0.64	ND	0.11	
95-50-1	1,2-Dichlorobenzene	ND	0.66	ND	0.11	
5989-27-5	d-Limonene	10	0.64	1.8	0.12	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.2	ND	0.13	
120-82-1	1,2,4-Trichlorobenzene	ND	1.2	ND	0.17	
91-20-3	Naphthalene	ND	0.64	ND	0.12	
87-68-3	Hexachlorobutadiene	ND	0.64	ND	0.060	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

VALIDATA

Chemical Services, Inc.

2159 Wynnton Pointe, Duluth, GA 30097

(770) 232-0130

(770) 232-5082 (Fax)

www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY: AECOM Technical Services Northeast, Inc.
PROJECT NAME: Armonk Private Wells #60628211
CONTRACTED LAB: ALS Environmental
QA/QC LEVEL: DUSR
ANALYTICAL METHOD(S): EPA Method TO-15
VALIDATION GUIDELINES: USEPA Region II data validation SOP (VOA-TO15 HW-31 Rev.6, Analysis of VOCs in Air contained in Canisters by Method TO-15, September 2016), Professional Judgment
SAMPLE MATRIX: Air
TYPES OF ANALYSES: Volatile Organic Carbons (VOC)
DATA REVIEWER(S): Amy L. Hogan
SDG NUMBER: P2301184
SAMPLING DATE(S): March 14, 2023

SAMPLES:

<u>Client Sample ID</u>	<u>Laboratory ID</u>	<u>VOC</u>
Armonk-OA-031423	P2301184-001	X
Building-1-SS1-031423	P2301184-002	X
Building-1-SS2-031423	P2301184-003	X
Building-1-IA-031423	P2301184-004	X
Building-2-SS1-031423	P2301184-005	X
Building-2-SS2-031423	P2301184-006	X
Building-2-IA-031423	P2301184-007	X
Building-2-IA-031423MD	P2301184-007MD	X
Building-3-IA-031423	P2301184-008	X
Buidling-3-IA-031423DL	P2301184-008DL	X
Building-4-SS1-031423	P2301184-009	X
Building-4-IA1-031423	P2301184-010	X
Building-4-SS2-031423	P2301184-011	X
Building-4-IA2-031423	P2301184-012	X
Armonk-IA-DUP-031423	P2301184-013	X
Armonk-IA-DUP-031423DL	P2301184-013DL	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY REPORT

ALS Environmental – P2301184

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per EPA Method TO-15.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

It was noted that the difference between sample collection and sample receipt PSI was greater than 5 for sample Building-2-SS2-031423. Since the sample was analyzed within the 30-day QC limit, the positive and non-detect results for the sample were qualified as estimated (J) and (UJ).

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

All Initial Calibration Verification criteria were met. No data qualification was necessary.

Continuing Calibration:

The Percent Differences (%Ds) for the standards run on 3/21/23 at 00:20 on instrument MS9 exceeded the 30% QC limit for the following compounds:

Benzyl chloride	-37.8%
-----------------	--------

Naphthalene -35.2%

The results for these compounds in the SDG samples, which were all non-detect, were qualified as estimated (UJ).

The Percent Differences (%Ds) for the standards run on 3/21/23 at 22:07 on instrument MS9 exceeded the 30% QC limit for the following compounds:

Benzyl chloride -39.6%
Naphthalene -35.6%

Since the associated sample analyses were dilutions and the listed compounds were not target compounds, no data qualification was necessary.

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Canister Blanks:

There were no detects in the canister check blanks for this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

Two LCS / LCSD sets were analyzed by the laboratory for this SDG. The Percent Recoveries (%Rs) exceeded the 70-130% QC limits for the following compounds for P230321-LCS/LCSD:

<u>Compound</u>	<u>LCS, %R</u>	<u>LCSD, %R</u>
Vinyl acetate	144%	145%
Cis-1,3-dichloropropene	133%	132%
Trans-1,3-dichloropropene	131%	131%
Benzyl chloride	158%	156%

Since there were no positive results for these compounds in the samples, no data qualification was necessary.

The %Rs for the second LCS / LCSD set exceeded the 70-130% QC limit for the following compounds:

<u>Compound</u>	<u>LCS, %R</u>	<u>LCSD, %R</u>
Vinyl acetate	145%	140%
Cis-1,3-dichloropropene	131%	
Benzyl chloride	155%	152%

Since the listed compounds were not target compounds for the associated sample dilution analyses, no data qualification was necessary.

IX.) Matrix Duplicate:

Matrix Duplicate analysis was performed using sample Building-2-IA-031423. All criteria were met. No data qualification was necessary.

X.) Field Duplicates:

One set of field duplicate samples (Building-3-IA-031423 / Armonk-IA-DUP-031423) was identified as part of this SDG. The calculable Relative Percent Differences (RPDs) for the first set were:

Propene	5.0%
Dichlorodifluoromethane	0%
Chloromethane	0%
Ethanol	1.1%
Acetone	18%
Trichlorofluoromethane	0%
2-propanol	6.1%
2-butanone	18%
Ethyl acetate	40%
n-hexane	18%
chloroform	8.0%
tetrahydrofuran	55%
benzene	26%
carbon tetrachloride	5.7%
bromodichloromethane	0%
toluene	52%
n-octane	11%
ethylbenzene	50%
m,p-xylene	48%
o-xylene	48%
n-nonane	5.7%
alpha-pinene	7.3%
d-Limonene	27%

The RPDs for tetrahydrofuran and toluene exceeded the 50% QC limit. Citing professional

judgment, the validator qualified the results for these compounds in the two samples as estimated (J).

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

The initial analysis ethanol results for samples Building-3-IA-031423 and Armonk-IA-DUP-031423 exceeded the linear calibration range. A dilution analysis was performed for each of the listed samples with all calibration criteria met. Since the Form I for each of the samples was a composite of the results, no data qualification was necessary.

All other CRQL criteria were met.

Attachment A

Sample Result Forms (FORM Is) Corrected for Validation Qualifiers

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: New York State DEC
Client Sample ID: Armonk-OA-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01085

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.28 Final Pressure (psig): 3.54

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	1.7	0.67	0.99	0.39	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	0.67	0.43	0.14	
74-87-3	Chloromethane	0.59	0.26	0.28	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.66	ND	0.094	
75-01-4	Vinyl Chloride	ND	0.14	ND	0.054	
106-99-0	1,3-Butadiene	ND	0.26	ND	0.12	
74-83-9	Bromomethane	ND	0.26	ND	0.068	
75-00-3	Chloroethane	ND	0.26	ND	0.10	
64-17-5	Ethanol	ND	6.3	ND	3.3	
75-05-8	Acetonitrile	ND	1.3	ND	0.75	
107-02-8	Acrolein	ND	1.3	ND	0.55	
67-64-1	Acetone	ND	6.6	ND	2.8	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	0.66	0.18	0.12	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.3	ND	0.53	
107-13-1	Acrylonitrile	ND	1.3	ND	0.58	
75-35-4	1,1-Dichloroethene	ND	0.14	ND	0.035	
75-09-2	Methylene Chloride	ND	0.67	ND	0.19	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.67	ND	0.21	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.68	ND	0.089	
75-15-0	Carbon Disulfide	ND	1.3	ND	0.43	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	ND	0.035	
75-34-3	1,1-Dichloroethane	ND	0.14	ND	0.034	
1634-04-4	Methyl tert-Butyl Ether	ND	0.68	ND	0.19	
108-05-4	Vinyl Acetate	ND	6.3	ND	1.8	
78-93-3	2-Butanone (MEK)	ND	1.3	ND	0.44	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3

Client: New York State DEC
Client Sample ID: Armonk-OA-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01085

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.28 Final Pressure (psig): 3.54

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.14	ND	0.035	
141-78-6	Ethyl Acetate	5.1	2.6	1.4	0.73	
110-54-3	n-Hexane	ND	0.67	ND	0.19	
67-66-3	Chloroform	ND	0.14	ND	0.028	
109-99-9	Tetrahydrofuran (THF)	1.1	0.63	0.36	0.21	
107-06-2	1,2-Dichloroethane	ND	0.14	ND	0.034	
71-55-6	1,1,1-Trichloroethane	ND	0.14	ND	0.025	
71-43-2	Benzene	0.99	0.14	0.31	0.043	
56-23-5	Carbon Tetrachloride	0.34	0.14	0.053	0.022	
110-82-7	Cyclohexane	ND	1.3	ND	0.38	
78-87-5	1,2-Dichloropropane	ND	0.14	ND	0.030	
75-27-4	Bromodichloromethane	ND	0.14	ND	0.021	
79-01-6	Trichloroethene	ND	0.14	ND	0.026	
123-91-1	1,4-Dioxane	ND	0.67	ND	0.19	
80-62-6	Methyl Methacrylate	ND	1.4	ND	0.34	
142-82-5	n-Heptane	ND	0.67	ND	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.68	ND	0.15	
108-10-1	4-Methyl-2-pentanone	ND	1.4	ND	0.34	
10061-02-6	trans-1,3-Dichloropropene	ND	0.64	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.14	ND	0.025	
108-88-3	Toluene	3.7	0.67	0.97	0.18	
591-78-6	2-Hexanone	ND	1.4	ND	0.34	
124-48-1	Dibromochloromethane	ND	0.14	ND	0.016	
106-93-4	1,2-Dibromoethane	ND	0.14	ND	0.018	
123-86-4	n-Butyl Acetate	ND	1.3	ND	0.27	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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

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Client: New York State DEC
Client Sample ID: Armonk-OA-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01085

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.28 Final Pressure (psig): 3.54

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.68	ND	0.15	
127-18-4	Tetrachloroethene	ND	0.14	ND	0.020	
108-90-7	Chlorobenzene	ND	0.67	ND	0.15	
100-41-4	Ethylbenzene	0.73	0.67	0.17	0.15	
179601-23-1	m,p-Xylenes	2.2	1.4	0.51	0.32	
75-25-2	Bromoform	ND	0.68	ND	0.066	
100-42-5	Styrene	ND	0.67	ND	0.16	
95-47-6	o-Xylene	0.83	0.67	0.19	0.15	
111-84-2	n-Nonane	ND	0.67	ND	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	ND	0.020	
98-82-8	Cumene	ND	0.68	ND	0.14	
80-56-8	alpha-Pinene	ND	1.4	ND	0.25	
103-65-1	n-Propylbenzene	ND	0.68	ND	0.14	
622-96-8	4-Ethyltoluene	ND	0.69	ND	0.14	
108-67-8	1,3,5-Trimethylbenzene	ND	0.67	ND	0.14	
95-63-6	1,2,4-Trimethylbenzene	ND	0.67	ND	0.14	
100-44-7	Benzyl Chloride	ND	UJ 2.7	ND	0.52	
541-73-1	1,3-Dichlorobenzene	ND	0.67	ND	0.11	
106-46-7	1,4-Dichlorobenzene	ND	0.67	ND	0.11	
95-50-1	1,2-Dichlorobenzene	ND	0.68	ND	0.11	
5989-27-5	d-Limonene	ND	1.4	ND	0.25	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.4	ND	0.14	
120-82-1	1,2,4-Trichlorobenzene	ND	1.4	ND	0.19	
91-20-3	Naphthalene	ND	UJ 0.69	ND	0.13	
87-68-3	Hexachlorobutadiene	ND	0.67	ND	0.063	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

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Client: New York State DEC
Client Sample ID: Building-1-SS1-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01533

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.02 Final Pressure (psig): 3.56

Canister Dilution Factor: 1.33

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.70	ND	0.41	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	0.70	0.43	0.14	
74-87-3	Chloromethane	ND	0.28	ND	0.14	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.69	ND	0.099	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.057	
106-99-0	1,3-Butadiene	ND	0.28	ND	0.13	
74-83-9	Bromomethane	ND	0.28	ND	0.072	
75-00-3	Chloroethane	ND	0.28	ND	0.11	
64-17-5	Ethanol	ND	6.7	ND	3.5	
75-05-8	Acetonitrile	ND	1.3	ND	0.79	
107-02-8	Acrolein	ND	1.3	ND	0.58	
67-64-1	Acetone	9.7	7.0	4.1	3.0	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	0.69	0.18	0.12	
67-63-0	2-Propanol (Isopropyl Alcohol)	4.0	1.4	1.6	0.55	
107-13-1	Acrylonitrile	ND	1.3	ND	0.61	
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.037	
75-09-2	Methylene Chloride	ND	0.70	ND	0.20	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.70	ND	0.23	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.72	ND	0.094	
75-15-0	Carbon Disulfide	ND	1.4	ND	0.46	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.037	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.036	
1634-04-4	Methyl tert-Butyl Ether	ND	0.72	ND	0.20	
108-05-4	Vinyl Acetate	ND	6.7	ND	1.9	
78-93-3	2-Butanone (MEK)	2.8	1.4	0.96	0.47	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

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Client: New York State DEC
Client Sample ID: Building-1-SS1-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01533

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.02 Final Pressure (psig): 3.56

Canister Dilution Factor: 1.33

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	0.48	0.15	0.12	0.037	
141-78-6	Ethyl Acetate	13	2.8	3.5	0.78	
110-54-3	n-Hexane	ND	0.70	ND	0.20	
67-66-3	Chloroform	0.90	0.15	0.18	0.030	
109-99-9	Tetrahydrofuran (THF)	2.7	0.67	0.91	0.23	
107-06-2	1,2-Dichloroethane	ND	0.15	ND	0.036	
71-55-6	1,1,1-Trichloroethane	0.18	0.15	0.032	0.027	
71-43-2	Benzene	0.30	0.15	0.092	0.046	
56-23-5	Carbon Tetrachloride	0.49	0.15	0.077	0.023	
110-82-7	Cyclohexane	ND	1.4	ND	0.41	
78-87-5	1,2-Dichloropropane	ND	0.15	ND	0.032	
75-27-4	Bromodichloromethane	ND	0.15	ND	0.022	
79-01-6	Trichloroethene	2.8	0.15	0.52	0.027	
123-91-1	1,4-Dioxane	ND	0.70	ND	0.20	
80-62-6	Methyl Methacrylate	ND	1.5	ND	0.36	
142-82-5	n-Heptane	ND	0.70	ND	0.17	
10061-01-5	cis-1,3-Dichloropropene	ND	0.72	ND	0.16	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.36	
10061-02-6	trans-1,3-Dichloropropene	ND	0.68	ND	0.15	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.027	
108-88-3	Toluene	3.7	0.70	0.97	0.19	
591-78-6	2-Hexanone	ND	1.5	ND	0.36	
124-48-1	Dibromochloromethane	ND	0.15	ND	0.017	
106-93-4	1,2-Dibromoethane	ND	0.15	ND	0.019	
123-86-4	n-Butyl Acetate	ND	1.3	ND	0.28	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

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Client: New York State DEC
Client Sample ID: Building-1-SS1-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01533

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.02 Final Pressure (psig): 3.56

Canister Dilution Factor: 1.33

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.72	ND	0.15	
127-18-4	Tetrachloroethene	110	0.15	17	0.022	
108-90-7	Chlorobenzene	ND	0.70	ND	0.15	
100-41-4	Ethylbenzene	0.76	0.70	0.17	0.16	
179601-23-1	m,p-Xylenes	2.8	1.5	0.65	0.34	
75-25-2	Bromoform	ND	0.72	ND	0.069	
100-42-5	Styrene	ND	0.70	ND	0.17	
95-47-6	o-Xylene	1.0	0.70	0.24	0.16	
111-84-2	n-Nonane	ND	0.70	ND	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.021	
98-82-8	Cumene	ND	0.72	ND	0.15	
80-56-8	alpha-Pinene	ND	1.5	ND	0.26	
103-65-1	n-Propylbenzene	ND	0.72	ND	0.15	
622-96-8	4-Ethyltoluene	ND	0.73	ND	0.15	
108-67-8	1,3,5-Trimethylbenzene	ND	0.70	ND	0.14	
95-63-6	1,2,4-Trimethylbenzene	ND	0.70	ND	0.14	
100-44-7	Benzyl Chloride	ND UJ	2.8	ND	0.54	
541-73-1	1,3-Dichlorobenzene	ND	0.70	ND	0.12	
106-46-7	1,4-Dichlorobenzene	ND	0.70	ND	0.12	
95-50-1	1,2-Dichlorobenzene	ND	0.72	ND	0.12	
5989-27-5	d-Limonene	ND	1.5	ND	0.26	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.5	ND	0.15	
120-82-1	1,2,4-Trichlorobenzene	ND	1.5	ND	0.20	
91-20-3	Naphthalene	ND UJ	0.73	ND	0.14	
87-68-3	Hexachlorobutadiene	ND	0.70	ND	0.066	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

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Client: New York State DEC
Client Sample ID: Building-1-SS2-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC02194

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.91 Final Pressure (psig): 3.56

Canister Dilution Factor: 1.32

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.70	ND	0.41	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	0.70	0.43	0.14	
74-87-3	Chloromethane	ND	0.28	ND	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.69	ND	0.098	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.057	
106-99-0	1,3-Butadiene	ND	0.28	ND	0.13	
74-83-9	Bromomethane	ND	0.28	ND	0.071	
75-00-3	Chloroethane	ND	0.28	ND	0.11	
64-17-5	Ethanol	11	6.6	6.0	3.5	
75-05-8	Acetonitrile	ND	1.3	ND	0.79	
107-02-8	Acrolein	ND	1.3	ND	0.58	
67-64-1	Acetone	ND	7.0	ND	2.9	
75-69-4	Trichlorofluoromethane (CFC 11)	0.99	0.69	0.18	0.12	
67-63-0	2-Propanol (Isopropyl Alcohol)	6.1	1.4	2.5	0.55	
107-13-1	Acrylonitrile	ND	1.3	ND	0.61	
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.037	
75-09-2	Methylene Chloride	1.3	0.70	0.36	0.20	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.70	ND	0.22	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.71	ND	0.093	
75-15-0	Carbon Disulfide	ND	1.4	ND	0.45	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.037	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.036	
1634-04-4	Methyl tert-Butyl Ether	ND	0.71	ND	0.20	
108-05-4	Vinyl Acetate	ND	6.6	ND	1.9	
78-93-3	2-Butanone (MEK)	5.2	1.4	1.8	0.47	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

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Client: New York State DEC
Client Sample ID: Building-1-SS2-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC02194

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.91 Final Pressure (psig): 3.56

Canister Dilution Factor: 1.32

CAS #	Compound	Result $\mu\text{g}/\text{m}^3$	MRL $\mu\text{g}/\text{m}^3$	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.15	ND	0.037	
141-78-6	Ethyl Acetate	22	2.8	6.1	0.77	
110-54-3	n-Hexane	2.0	0.70	0.57	0.20	
67-66-3	Chloroform	0.26	0.15	0.053	0.030	
109-99-9	Tetrahydrofuran (THF)	4.9	0.66	1.7	0.22	
107-06-2	1,2-Dichloroethane	0.17	0.15	0.042	0.036	
71-55-6	1,1,1-Trichloroethane	ND	0.15	ND	0.027	
71-43-2	Benzene	1.4	0.15	0.43	0.045	
56-23-5	Carbon Tetrachloride	0.43	0.15	0.068	0.023	
110-82-7	Cyclohexane	ND	1.4	ND	0.40	
78-87-5	1,2-Dichloropropane	1.1	0.15	0.23	0.031	
75-27-4	Bromodichloromethane	ND	0.15	ND	0.022	
79-01-6	Trichloroethene	0.27	0.15	0.050	0.027	
123-91-1	1,4-Dioxane	ND	0.70	ND	0.19	
80-62-6	Methyl Methacrylate	ND	1.5	ND	0.35	
142-82-5	n-Heptane	1.3	0.70	0.31	0.17	
10061-01-5	cis-1,3-Dichloropropene	ND	0.71	ND	0.16	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.35	
10061-02-6	trans-1,3-Dichloropropene	ND	0.67	ND	0.15	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.027	
108-88-3	Toluene	19	0.70	5.0	0.19	
591-78-6	2-Hexanone	ND	1.5	ND	0.35	
124-48-1	Dibromochloromethane	ND	0.15	ND	0.017	
106-93-4	1,2-Dibromoethane	ND	0.15	ND	0.019	
123-86-4	n-Butyl Acetate	ND	1.3	ND	0.28	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

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Client: New York State DEC
Client Sample ID: Building-1-SS2-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC02194

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.91 Final Pressure (psig): 3.56

Canister Dilution Factor: 1.32

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.71	ND	0.15	
127-18-4	Tetrachloroethene	20	0.15	2.9	0.021	
108-90-7	Chlorobenzene	ND	0.70	ND	0.15	
100-41-4	Ethylbenzene	2.3	0.70	0.53	0.16	
179601-23-1	m,p-Xylenes	7.2	1.5	1.7	0.33	
75-25-2	Bromoform	ND	0.71	ND	0.069	
100-42-5	Styrene	0.72	0.70	0.17	0.16	
95-47-6	o-Xylene	2.6	0.70	0.59	0.16	
111-84-2	n-Nonane	ND	0.70	ND	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.021	
98-82-8	Cumene	ND	0.71	ND	0.15	
80-56-8	alpha-Pinene	ND	1.5	ND	0.26	
103-65-1	n-Propylbenzene	ND	0.71	ND	0.15	
622-96-8	4-Ethyltoluene	ND	0.73	ND	0.15	
108-67-8	1,3,5-Trimethylbenzene	ND	0.70	ND	0.14	
95-63-6	1,2,4-Trimethylbenzene	1.4	0.70	0.28	0.14	
100-44-7	Benzyl Chloride	ND UJ	2.8	ND	0.54	
541-73-1	1,3-Dichlorobenzene	ND	0.70	ND	0.12	
106-46-7	1,4-Dichlorobenzene	ND	0.70	ND	0.12	
95-50-1	1,2-Dichlorobenzene	ND	0.71	ND	0.12	
5989-27-5	d-Limonene	1.8	1.5	0.33	0.26	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.5	ND	0.15	
120-82-1	1,2,4-Trichlorobenzene	ND	1.5	ND	0.20	
91-20-3	Naphthalene	ND UJ	0.73	ND	0.14	
87-68-3	Hexachlorobutadiene	ND	0.70	ND	0.066	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

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Client: New York State DEC
Client Sample ID: Building-1-IA-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-004

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01261

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.99 Final Pressure (psig): 3.64

Canister Dilution Factor: 1.34

CAS #	Compound	Result $\mu\text{g}/\text{m}^3$	MRL $\mu\text{g}/\text{m}^3$	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	8.5	0.71	4.9	0.41	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	0.71	0.43	0.14	
74-87-3	Chloromethane	0.62	0.28	0.30	0.14	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.70	ND	0.10	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.058	
106-99-0	1,3-Butadiene	ND	0.28	ND	0.13	
74-83-9	Bromomethane	ND	0.28	ND	0.072	
75-00-3	Chloroethane	ND	0.28	ND	0.11	
64-17-5	Ethanol	390	6.7	210	3.6	
75-05-8	Acetonitrile	ND	1.3	ND	0.80	
107-02-8	Acrolein	ND	1.3	ND	0.58	
67-64-1	Acetone	34	7.1	14	3.0	
75-69-4	Trichlorofluoromethane (CFC 11)	0.98	0.70	0.17	0.12	
67-63-0	2-Propanol (Isopropyl Alcohol)	23	1.4	9.2	0.56	
107-13-1	Acrylonitrile	ND	1.3	ND	0.62	
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.037	
75-09-2	Methylene Chloride	ND	0.71	ND	0.20	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.71	ND	0.23	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.72	ND	0.094	
75-15-0	Carbon Disulfide	ND	1.4	ND	0.46	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.037	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.036	
1634-04-4	Methyl tert-Butyl Ether	ND	0.72	ND	0.20	
108-05-4	Vinyl Acetate	ND	6.7	ND	1.9	
78-93-3	2-Butanone (MEK)	4.2	1.4	1.4	0.47	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

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Client: New York State DEC
Client Sample ID: Building-1-IA-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-004

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01261

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.99 Final Pressure (psig): 3.64

Canister Dilution Factor: 1.34

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.15	ND	0.037	
141-78-6	Ethyl Acetate	6.7	2.8	1.9	0.78	
110-54-3	n-Hexane	1.8	0.71	0.52	0.20	
67-66-3	Chloroform	0.29	0.15	0.059	0.030	
109-99-9	Tetrahydrofuran (THF)	6.6	0.67	2.2	0.23	
107-06-2	1,2-Dichloroethane	ND	0.15	ND	0.036	
71-55-6	1,1,1-Trichloroethane	ND	0.15	ND	0.027	
71-43-2	Benzene	0.98	0.15	0.31	0.046	
56-23-5	Carbon Tetrachloride	0.43	0.15	0.068	0.023	
110-82-7	Cyclohexane	ND	1.4	ND	0.41	
78-87-5	1,2-Dichloropropane	ND	0.15	ND	0.032	
75-27-4	Bromodichloromethane	ND	0.15	ND	0.022	
79-01-6	Trichloroethene	ND	0.15	ND	0.027	
123-91-1	1,4-Dioxane	ND	0.71	ND	0.20	
80-62-6	Methyl Methacrylate	ND	1.5	ND	0.36	
142-82-5	n-Heptane	1.2	0.71	0.30	0.17	
10061-01-5	cis-1,3-Dichloropropene	ND	0.72	ND	0.16	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.36	
10061-02-6	trans-1,3-Dichloropropene	ND	0.68	ND	0.15	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.027	
108-88-3	Toluene	7.2	0.71	1.9	0.19	
591-78-6	2-Hexanone	ND	1.5	ND	0.36	
124-48-1	Dibromochloromethane	ND	0.15	ND	0.017	
106-93-4	1,2-Dibromoethane	ND	0.15	ND	0.019	
123-86-4	n-Butyl Acetate	1.4	1.3	0.30	0.28	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

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Client: New York State DEC
Client Sample ID: Building-1-IA-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-004

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01261

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.99 Final Pressure (psig): 3.64

Canister Dilution Factor: 1.34

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	0.75	0.72	0.16	0.15	
127-18-4	Tetrachloroethene	3.5	0.15	0.52	0.022	
108-90-7	Chlorobenzene	ND	0.71	ND	0.15	
100-41-4	Ethylbenzene	1.7	0.71	0.39	0.16	
179601-23-1	m,p-Xylenes	5.3	1.5	1.2	0.34	
75-25-2	Bromoform	ND	0.72	ND	0.070	
100-42-5	Styrene	ND	0.71	ND	0.17	
95-47-6	o-Xylene	2.1	0.71	0.49	0.16	
111-84-2	n-Nonane	0.79	0.71	0.15	0.14	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.021	
98-82-8	Cumene	ND	0.72	ND	0.15	
80-56-8	alpha-Pinene	2.5	1.5	0.45	0.26	
103-65-1	n-Propylbenzene	ND	0.72	ND	0.15	
622-96-8	4-Ethyltoluene	0.80	0.74	0.16	0.15	
108-67-8	1,3,5-Trimethylbenzene	ND	0.71	ND	0.14	
95-63-6	1,2,4-Trimethylbenzene	2.4	0.71	0.48	0.14	
100-44-7	Benzyl Chloride	ND UJ	2.8	ND	0.55	
541-73-1	1,3-Dichlorobenzene	ND	0.71	ND	0.12	
106-46-7	1,4-Dichlorobenzene	ND	0.71	ND	0.12	
95-50-1	1,2-Dichlorobenzene	ND	0.72	ND	0.12	
5989-27-5	d-Limonene	3.1	1.5	0.55	0.26	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.5	ND	0.15	
120-82-1	1,2,4-Trichlorobenzene	ND	1.5	ND	0.20	
91-20-3	Naphthalene	ND UJ	0.74	ND	0.14	
87-68-3	Hexachlorobutadiene	ND	0.71	ND	0.067	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

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Client: New York State DEC
Client Sample ID: Building-2-SS1-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-005

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01101

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.99 Final Pressure (psig): 3.51

Canister Dilution Factor: 1.33

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.70	ND	0.41	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.8	0.70	0.77	0.14	
74-87-3	Chloromethane	ND	0.28	ND	0.14	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.69	ND	0.099	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.057	
106-99-0	1,3-Butadiene	ND	0.28	ND	0.13	
74-83-9	Bromomethane	ND	0.28	ND	0.072	
75-00-3	Chloroethane	ND	0.28	ND	0.11	
64-17-5	Ethanol	7.4	6.7	3.9	3.5	
75-05-8	Acetonitrile	ND	1.3	ND	0.79	
107-02-8	Acrolein	ND	1.3	ND	0.58	
67-64-1	Acetone	ND	7.0	ND	3.0	
75-69-4	Trichlorofluoromethane (CFC 11)	2.5	0.69	0.44	0.12	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.5	1.4	1.4	0.55	
107-13-1	Acrylonitrile	ND	1.3	ND	0.61	
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.037	
75-09-2	Methylene Chloride	ND	0.70	ND	0.20	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.70	ND	0.23	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.72	ND	0.094	
75-15-0	Carbon Disulfide	ND	1.4	ND	0.46	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.037	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.036	
1634-04-4	Methyl tert-Butyl Ether	ND	0.72	ND	0.20	
108-05-4	Vinyl Acetate	ND	6.7	ND	1.9	
78-93-3	2-Butanone (MEK)	ND	1.4	ND	0.47	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

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Client: New York State DEC
Client Sample ID: Building-2-SS1-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-005

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01101

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.99 Final Pressure (psig): 3.51

Canister Dilution Factor: 1.33

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.15	ND	0.037	
141-78-6	Ethyl Acetate	ND	2.8	ND	0.78	
110-54-3	n-Hexane	ND	0.70	ND	0.20	
67-66-3	Chloroform	0.37	0.15	0.077	0.030	
109-99-9	Tetrahydrofuran (THF)	1.3	0.67	0.44	0.23	
107-06-2	1,2-Dichloroethane	ND	0.15	ND	0.036	
71-55-6	1,1,1-Trichloroethane	1.8	0.15	0.33	0.027	
71-43-2	Benzene	0.25	0.15	0.078	0.046	
56-23-5	Carbon Tetrachloride	1.0	0.15	0.16	0.023	
110-82-7	Cyclohexane	ND	1.4	ND	0.41	
78-87-5	1,2-Dichloropropane	ND	0.15	ND	0.032	
75-27-4	Bromodichloromethane	ND	0.15	ND	0.022	
79-01-6	Trichloroethene	ND	0.15	ND	0.027	
123-91-1	1,4-Dioxane	ND	0.70	ND	0.20	
80-62-6	Methyl Methacrylate	ND	1.5	ND	0.36	
142-82-5	n-Heptane	ND	0.70	ND	0.17	
10061-01-5	cis-1,3-Dichloropropene	ND	0.72	ND	0.16	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.36	
10061-02-6	trans-1,3-Dichloropropene	ND	0.68	ND	0.15	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.027	
108-88-3	Toluene	4.8	0.70	1.3	0.19	
591-78-6	2-Hexanone	ND	1.5	ND	0.36	
124-48-1	Dibromochloromethane	ND	0.15	ND	0.017	
106-93-4	1,2-Dibromoethane	ND	0.15	ND	0.019	
123-86-4	n-Butyl Acetate	ND	1.3	ND	0.28	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

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Client: New York State DEC
Client Sample ID: Building-2-SS1-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-005

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01101

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.99 Final Pressure (psig): 3.51

Canister Dilution Factor: 1.33

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.72	ND	0.15	
127-18-4	Tetrachloroethene	0.47	0.15	0.070	0.022	
108-90-7	Chlorobenzene	ND	0.70	ND	0.15	
100-41-4	Ethylbenzene	ND	0.70	ND	0.16	
179601-23-1	m,p-Xylenes	2.1	1.5	0.48	0.34	
75-25-2	Bromoform	ND	0.72	ND	0.069	
100-42-5	Styrene	ND	0.70	ND	0.17	
95-47-6	o-Xylene	0.76	0.70	0.17	0.16	
111-84-2	n-Nonane	ND	0.70	ND	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.021	
98-82-8	Cumene	ND	0.72	ND	0.15	
80-56-8	alpha-Pinene	ND	1.5	ND	0.26	
103-65-1	n-Propylbenzene	ND	0.72	ND	0.15	
622-96-8	4-Ethyltoluene	ND	0.73	ND	0.15	
108-67-8	1,3,5-Trimethylbenzene	ND	0.70	ND	0.14	
95-63-6	1,2,4-Trimethylbenzene	ND	0.70	ND	0.14	
100-44-7	Benzyl Chloride	ND UJ	2.8	ND	0.54	
541-73-1	1,3-Dichlorobenzene	ND	0.70	ND	0.12	
106-46-7	1,4-Dichlorobenzene	ND	0.70	ND	0.12	
95-50-1	1,2-Dichlorobenzene	ND	0.72	ND	0.12	
5989-27-5	d-Limonene	ND	1.5	ND	0.26	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.5	ND	0.15	
120-82-1	1,2,4-Trichlorobenzene	ND	1.5	ND	0.20	
91-20-3	Naphthalene	ND UJ	0.73	ND	0.14	
87-68-3	Hexachlorobutadiene	ND	0.70	ND	0.066	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: New York State DEC
Client Sample ID: Building-2-SS2-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-006

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01468

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.41 Final Pressure (psig): 3.88

Canister Dilution Factor: 1.40

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	16	0.74	9.3	0.43	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2.7	0.74	0.56	0.15	J
74-87-3	Chloromethane	ND	0.29	ND	0.14	UJ
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.73	ND	0.10	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.060	
106-99-0	1,3-Butadiene	ND	0.29	ND	0.13	
74-83-9	Bromomethane	ND	0.29	ND	0.076	
75-00-3	Chloroethane	ND	0.29	ND	0.11	
64-17-5	Ethanol	49	7.0	26	3.7	J
75-05-8	Acetonitrile	ND	1.4	ND	0.83	UJ
107-02-8	Acrolein	ND	1.4	ND	0.61	UJ
67-64-1	Acetone	20	7.4	8.3	3.1	J
75-69-4	Trichlorofluoromethane (CFC 11)	1.5	0.73	0.27	0.13	
67-63-0	2-Propanol (Isopropyl Alcohol)	40	1.4	16	0.58	
107-13-1	Acrylonitrile	ND	1.4	ND	0.65	UJ
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.039	
75-09-2	Methylene Chloride	ND	0.74	ND	0.21	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.74	ND	0.24	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.76	ND	0.099	
75-15-0	Carbon Disulfide	ND	1.5	ND	0.48	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.039	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.038	
1634-04-4	Methyl tert-Butyl Ether	ND	0.76	ND	0.21	
108-05-4	Vinyl Acetate	ND	7.0	ND	2.0	
78-93-3	2-Butanone (MEK)	1.9	1.5	0.64	0.49	J

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

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Client: New York State DEC
Client Sample ID: Building-2-SS2-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-006

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01468

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.41 Final Pressure (psig): 3.88

Canister Dilution Factor: 1.40

CAS #	Compound	Result		MRL		Data Qualifier
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	ppbV	
156-59-2	cis-1,2-Dichloroethene	0.41	J	0.15	0.10	0.039
141-78-6	Ethyl Acetate	7.7	J	2.9	2.1	0.82
110-54-3	n-Hexane	ND	UJ	0.74	ND	0.21
67-66-3	Chloroform	0.68	J	0.15	0.14	0.032
109-99-9	Tetrahydrofuran (THF)	2.6	J	0.70	0.87	0.24
107-06-2	1,2-Dichloroethane	ND	UJ	0.15	ND	0.038
71-55-6	1,1,1-Trichloroethane	0.85	J	0.15	0.16	0.028
71-43-2	Benzene	0.42	↓	0.15	0.13	0.048
56-23-5	Carbon Tetrachloride	0.55	↓	0.15	0.088	0.024
110-82-7	Cyclohexane	ND	UJ	1.5	ND	0.43
78-87-5	1,2-Dichloropropane	ND	↓	0.15	ND	0.033
75-27-4	Bromodichloromethane	ND	↓	0.15	ND	0.023
79-01-6	Trichloroethene	1.2	J	0.15	0.23	0.029
123-91-1	1,4-Dioxane	ND	UJ	0.74	ND	0.21
80-62-6	Methyl Methacrylate	3.6	J	1.5	0.88	0.38
142-82-5	n-Heptane	ND	UJ	0.74	ND	0.18
10061-01-5	cis-1,3-Dichloropropene	ND	↓	0.76	ND	0.17
108-10-1	4-Methyl-2-pentanone	ND	↓	1.5	ND	0.38
10061-02-6	trans-1,3-Dichloropropene	ND	↓	0.71	ND	0.16
79-00-5	1,1,2-Trichloroethane	ND	↓	0.15	ND	0.028
108-88-3	Toluene	5.3	J	0.74	1.4	0.20
591-78-6	2-Hexanone	ND	UJ	1.5	ND	0.38
124-48-1	Dibromochloromethane	ND	↓	0.15	ND	0.018
106-93-4	1,2-Dibromoethane	ND	↓	0.15	ND	0.020
123-86-4	n-Butyl Acetate	ND	↓	1.4	ND	0.29

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: New York State DEC
Client Sample ID: Building-2-SS2-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-006

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01468

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.41 Final Pressure (psig): 3.88

Canister Dilution Factor: 1.40

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.76	ND	0.16	
127-18-4	Tetrachloroethene	36	0.15	5.3	0.023	
108-90-7	Chlorobenzene	ND	0.74	ND	0.16	
100-41-4	Ethylbenzene	0.74	0.74	0.17	0.17	
179601-23-1	m,p-Xylenes	2.6	1.5	0.59	0.35	
75-25-2	Bromoform	ND	0.76	ND	0.073	
100-42-5	Styrene	ND	0.74	ND	0.17	
95-47-6	o-Xylene	0.92	0.74	0.21	0.17	
111-84-2	n-Nonane	ND	0.74	ND	0.14	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.022	
98-82-8	Cumene	ND	0.76	ND	0.15	
80-56-8	alpha-Pinene	ND	1.5	ND	0.28	
103-65-1	n-Propylbenzene	ND	0.76	ND	0.15	
622-96-8	4-Ethyltoluene	ND	0.77	ND	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND	0.74	ND	0.15	
95-63-6	1,2,4-Trimethylbenzene	ND	0.74	ND	0.15	
100-44-7	Benzyl Chloride	ND	3.0	ND	0.57	
541-73-1	1,3-Dichlorobenzene	ND	0.74	ND	0.12	
106-46-7	1,4-Dichlorobenzene	ND	0.74	ND	0.12	
95-50-1	1,2-Dichlorobenzene	ND	0.76	ND	0.13	
5989-27-5	d-Limonene	ND	1.5	ND	0.28	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.5	ND	0.16	
120-82-1	1,2,4-Trichlorobenzene	ND	1.5	ND	0.21	
91-20-3	Naphthalene	ND	0.77	ND	0.15	
87-68-3	Hexachlorobutadiene	ND	0.74	ND	0.070	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

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Client: New York State DEC
Client Sample ID: Building-2-IA-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-007

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC02178

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 0.30 Liter(s)

Initial Pressure (psig): 0.0 Final Pressure (psig): 3.86

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	20	2.2	12	1.3	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	2.2	0.48	0.45	
74-87-3	Chloromethane	1.5	0.88	0.75	0.43	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.2	ND	0.31	
75-01-4	Vinyl Chloride	ND	0.46	ND	0.18	
106-99-0	1,3-Butadiene	ND	0.88	ND	0.40	
74-83-9	Bromomethane	ND	0.88	ND	0.23	
75-00-3	Chloroethane	ND	0.88	ND	0.33	
64-17-5	Ethanol	350	21	190	11	
75-05-8	Acetonitrile	ND	4.2	ND	2.5	
107-02-8	Acrolein	ND	4.2	ND	1.8	
67-64-1	Acetone	230	22	97	9.3	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	2.2	ND	0.39	
67-63-0	2-Propanol (Isopropyl Alcohol)	140	4.3	58	1.8	
107-13-1	Acrylonitrile	ND	4.2	ND	1.9	
75-35-4	1,1-Dichloroethene	ND	0.46	ND	0.12	
75-09-2	Methylene Chloride	28	2.2	8.0	0.64	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.2	ND	0.71	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	2.3	ND	0.30	
75-15-0	Carbon Disulfide	ND	4.5	ND	1.4	
156-60-5	trans-1,2-Dichloroethene	ND	0.46	ND	0.12	
75-34-3	1,1-Dichloroethane	ND	0.46	ND	0.11	
1634-04-4	Methyl tert-Butyl Ether	ND	2.3	ND	0.63	
108-05-4	Vinyl Acetate	ND	21	ND	6.0	
78-93-3	2-Butanone (MEK)	45	4.4	15	1.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

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Client: New York State DEC
Client Sample ID: Building-2-IA-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-007

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC02178

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 0.30 Liter(s)

Initial Pressure (psig): 0.0 Final Pressure (psig): 3.86

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.46	ND	0.12	
141-78-6	Ethyl Acetate	570	8.8	160	2.4	
110-54-3	n-Hexane	29	2.2	8.1	0.63	
67-66-3	Chloroform	3.3	0.46	0.68	0.095	
109-99-9	Tetrahydrofuran (THF)	43	2.1	15	0.71	
107-06-2	1,2-Dichloroethane	7.6	0.46	1.9	0.11	
71-55-6	1,1,1-Trichloroethane	ND	0.46	ND	0.085	
71-43-2	Benzene	16	0.46	5.0	0.14	
56-23-5	Carbon Tetrachloride	ND	0.46	ND	0.073	
110-82-7	Cyclohexane	27	4.4	7.9	1.3	
78-87-5	1,2-Dichloropropane	24	0.46	5.1	0.10	
75-27-4	Bromodichloromethane	ND	0.46	ND	0.069	
79-01-6	Trichloroethene	ND	0.46	ND	0.086	
123-91-1	1,4-Dioxane	ND	2.2	ND	0.62	
80-62-6	Methyl Methacrylate	11	4.6	2.8	1.1	
142-82-5	n-Heptane	17	2.2	4.1	0.54	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	ND	0.50	
108-10-1	4-Methyl-2-pentanone	6.9	4.6	1.7	1.1	
10061-02-6	trans-1,3-Dichloropropene	ND	2.1	ND	0.47	
79-00-5	1,1,2-Trichloroethane	ND	0.46	ND	0.085	
108-88-3	Toluene	430	2.2	110	0.59	
591-78-6	2-Hexanone	ND	4.6	ND	1.1	
124-48-1	Dibromochloromethane	ND	0.46	ND	0.054	
106-93-4	1,2-Dibromoethane	ND	0.46	ND	0.060	
123-86-4	n-Butyl Acetate	11	4.2	2.4	0.88	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

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Client: New York State DEC
Client Sample ID: Building-2-IA-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-007

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC02178

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 0.30 Liter(s)

Initial Pressure (psig): 0.0 Final Pressure (psig): 3.86

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	5.4	2.3	1.2	0.49	
127-18-4	Tetrachloroethene	1.5	0.46	0.22	0.068	
108-90-7	Chlorobenzene	ND	2.2	ND	0.48	
100-41-4	Ethylbenzene	35	2.2	8.1	0.51	
179601-23-1	m,p-Xylenes	93	4.6	22	1.1	
75-25-2	Bromoform	ND	2.3	ND	0.22	
100-42-5	Styrene	12	2.2	2.9	0.52	
95-47-6	o-Xylene	38	2.2	8.7	0.51	
111-84-2	n-Nonane	2.5	2.2	0.47	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.46	ND	0.067	
98-82-8	Cumene	ND	2.3	ND	0.46	
80-56-8	alpha-Pinene	17	4.6	3.0	0.83	
103-65-1	n-Propylbenzene	2.4	2.3	0.49	0.46	
622-96-8	4-Ethyltoluene	3.5	2.3	0.71	0.47	
108-67-8	1,3,5-Trimethylbenzene	2.9	2.2	0.59	0.45	
95-63-6	1,2,4-Trimethylbenzene	11	2.2	2.2	0.45	
100-44-7	Benzyl Chloride	ND	8.9	ND	1.7	UJ
541-73-1	1,3-Dichlorobenzene	ND	2.2	ND	0.37	
106-46-7	1,4-Dichlorobenzene	ND	2.2	ND	0.37	
95-50-1	1,2-Dichlorobenzene	ND	2.3	ND	0.38	
5989-27-5	d-Limonene	57	4.6	10	0.83	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.6	ND	0.48	
120-82-1	1,2,4-Trichlorobenzene	ND	4.6	ND	0.62	
91-20-3	Naphthalene	ND	2.3	ND	0.44	UJ
87-68-3	Hexachlorobutadiene	ND	2.2	ND	0.21	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

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Client: New York State DEC
Client Sample ID: Building-3-IA-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-008

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS00369

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21 - 3/22/23
 Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -1.22 Final Pressure (psig): 4.34

Canister Dilution Factor: 1.41

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	5.8	0.75	3.4	0.43	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	0.75	0.45	0.15	
74-87-3	Chloromethane	0.64	0.30	0.31	0.14	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.73	ND	0.10	
75-01-4	Vinyl Chloride	ND	0.16	ND	0.061	
106-99-0	1,3-Butadiene	ND	0.30	ND	0.13	
74-83-9	Bromomethane	ND	0.30	ND	0.076	
75-00-3	Chloroethane	ND	0.30	ND	0.11	
64-17-5	Ethanol	880	35	470	19	D
75-05-8	Acetonitrile	ND	1.4	ND	0.84	
107-02-8	Acrolein	ND	1.4	ND	0.62	
67-64-1	Acetone	31	7.4	13	3.1	
75-69-4	Trichlorofluoromethane (CFC 11)	1.8	0.73	0.32	0.13	
67-63-0	2-Propanol (Isopropyl Alcohol)	17	1.4	7.0	0.59	
107-13-1	Acrylonitrile	ND	1.4	ND	0.65	
75-35-4	1,1-Dichloroethene	ND	0.16	ND	0.039	
75-09-2	Methylene Chloride	0.79	0.75	0.23	0.22	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.75	ND	0.24	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.76	ND	0.099	
75-15-0	Carbon Disulfide	ND	1.5	ND	0.48	
156-60-5	trans-1,2-Dichloroethene	ND	0.16	ND	0.039	
75-34-3	1,1-Dichloroethane	ND	0.16	ND	0.038	
1634-04-4	Methyl tert-Butyl Ether	ND	0.76	ND	0.21	
108-05-4	Vinyl Acetate	ND	7.1	ND	2.0	
78-93-3	2-Butanone (MEK)	3.0	1.5	1.0	0.50	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

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RESULTS OF ANALYSIS

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Client: New York State DEC
Client Sample ID: Building-3-IA-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-008

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS00369

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21 - 3/22/23
 Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -1.22 Final Pressure (psig): 4.34

Canister Dilution Factor: 1.41

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.16	ND	0.039	
141-78-6	Ethyl Acetate	18	3.0	5.1	0.82	
110-54-3	n-Hexane	3.1	0.75	0.88	0.21	
67-66-3	Chloroform	1.2	0.16	0.26	0.032	
109-99-9	Tetrahydrofuran (THF)	2.1 J	0.71	0.70	0.24	
107-06-2	1,2-Dichloroethane	0.19	0.16	0.046	0.038	
71-55-6	1,1,1-Trichloroethane	ND	0.16	ND	0.028	
71-43-2	Benzene	1.3	0.16	0.40	0.049	
56-23-5	Carbon Tetrachloride	0.51	0.16	0.081	0.025	
110-82-7	Cyclohexane	ND	1.5	ND	0.43	
78-87-5	1,2-Dichloropropane	0.38	0.16	0.081	0.034	
75-27-4	Bromodichloromethane	0.22	0.16	0.032	0.023	
79-01-6	Trichloroethene	ND	0.16	ND	0.029	
123-91-1	1,4-Dioxane	ND	0.75	ND	0.21	
80-62-6	Methyl Methacrylate	ND	1.6	ND	0.38	
142-82-5	n-Heptane	0.83	0.75	0.20	0.18	
10061-01-5	cis-1,3-Dichloropropene	ND	0.76	ND	0.17	
108-10-1	4-Methyl-2-pentanone	ND	1.6	ND	0.38	
10061-02-6	trans-1,3-Dichloropropene	ND	0.72	ND	0.16	
79-00-5	1,1,2-Trichloroethane	ND	0.16	ND	0.028	
108-88-3	Toluene	17 J	0.75	4.4	0.20	
591-78-6	2-Hexanone	ND	1.6	ND	0.38	
124-48-1	Dibromochloromethane	ND	0.16	ND	0.018	
106-93-4	1,2-Dibromoethane	ND	0.16	ND	0.020	
123-86-4	n-Butyl Acetate	ND	1.4	ND	0.30	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

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Client: New York State DEC
Client Sample ID: Building-3-IA-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-008

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS00369

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21 - 3/22/23
 Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -1.22 Final Pressure (psig): 4.34

Canister Dilution Factor: 1.41

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	1.0	0.76	0.22	0.16	
127-18-4	Tetrachloroethene	ND	0.16	ND	0.023	
108-90-7	Chlorobenzene	ND	0.75	ND	0.16	
100-41-4	Ethylbenzene	1.3	0.75	0.30	0.17	
179601-23-1	m,p-Xylenes	3.9	1.6	0.90	0.36	
75-25-2	Bromoform	ND	0.76	ND	0.074	
100-42-5	Styrene	ND	0.75	ND	0.18	
95-47-6	o-Xylene	1.5	0.75	0.36	0.17	
111-84-2	n-Nonane	1.8	0.75	0.34	0.14	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	ND	0.023	
98-82-8	Cumene	ND	0.76	ND	0.15	
80-56-8	alpha-Pinene	10	1.6	1.9	0.28	
103-65-1	n-Propylbenzene	ND	0.76	ND	0.15	
622-96-8	4-Ethyltoluene	ND	0.78	ND	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND	0.75	ND	0.15	
95-63-6	1,2,4-Trimethylbenzene	ND	0.75	ND	0.15	
100-44-7	Benzyl Chloride	ND ^{UJ}	3.0	ND	0.58	
541-73-1	1,3-Dichlorobenzene	ND	0.75	ND	0.12	
106-46-7	1,4-Dichlorobenzene	ND	0.75	ND	0.12	
95-50-1	1,2-Dichlorobenzene	ND	0.76	ND	0.13	
5989-27-5	d-Limonene	29	1.6	5.3	0.28	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.6	ND	0.16	
120-82-1	1,2,4-Trichlorobenzene	ND	1.6	ND	0.21	
91-20-3	Naphthalene	ND ^{UJ}	0.78	ND	0.15	
87-68-3	Hexachlorobutadiene	ND	0.75	ND	0.070	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: New York State DEC
Client Sample ID: Building-4-SS1-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-009

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS00380

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.55 Final Pressure (psig): 3.58

Canister Dilution Factor: 1.29

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	1.5	0.68	0.87	0.40	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	0.68	0.44	0.14	
74-87-3	Chloromethane	0.61	0.27	0.29	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.67	ND	0.096	
75-01-4	Vinyl Chloride	ND	0.14	ND	0.056	
106-99-0	1,3-Butadiene	ND	0.27	ND	0.12	
74-83-9	Bromomethane	ND	0.27	ND	0.070	
75-00-3	Chloroethane	ND	0.27	ND	0.10	
64-17-5	Ethanol	9.9	6.5	5.3	3.4	
75-05-8	Acetonitrile	ND	1.3	ND	0.77	
107-02-8	Acrolein	ND	1.3	ND	0.56	
67-64-1	Acetone	ND	6.8	ND	2.9	
75-69-4	Trichlorofluoromethane (CFC 11)	1.1	0.67	0.20	0.12	
67-63-0	2-Propanol (Isopropyl Alcohol)	2.3	1.3	0.92	0.54	
107-13-1	Acrylonitrile	ND	1.3	ND	0.59	
75-35-4	1,1-Dichloroethene	ND	0.14	ND	0.036	
75-09-2	Methylene Chloride	ND	0.68	ND	0.20	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.68	ND	0.22	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.70	ND	0.091	
75-15-0	Carbon Disulfide	ND	1.4	ND	0.44	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	ND	0.036	
75-34-3	1,1-Dichloroethane	ND	0.14	ND	0.035	
1634-04-4	Methyl tert-Butyl Ether	ND	0.70	ND	0.19	
108-05-4	Vinyl Acetate	ND	6.5	ND	1.8	
78-93-3	2-Butanone (MEK)	1.6	1.3	0.54	0.46	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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

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Client: New York State DEC
Client Sample ID: Building-4-SS1-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-009

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS00380

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.55 Final Pressure (psig): 3.58

Canister Dilution Factor: 1.29

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.14	ND	0.036	
141-78-6	Ethyl Acetate	21	2.7	5.8	0.75	
110-54-3	n-Hexane	1.3	0.68	0.37	0.19	
67-66-3	Chloroform	ND	0.14	ND	0.029	
109-99-9	Tetrahydrofuran (THF)	2.4	0.65	0.82	0.22	
107-06-2	1,2-Dichloroethane	0.17	0.14	0.042	0.035	
71-55-6	1,1,1-Trichloroethane	ND	0.14	ND	0.026	
71-43-2	Benzene	0.97	0.14	0.30	0.044	
56-23-5	Carbon Tetrachloride	ND	0.14	ND	0.023	
110-82-7	Cyclohexane	ND	1.4	ND	0.39	
78-87-5	1,2-Dichloropropane	0.49	0.14	0.11	0.031	
75-27-4	Bromodichloromethane	ND	0.14	ND	0.021	
79-01-6	Trichloroethene	ND	0.14	ND	0.026	
123-91-1	1,4-Dioxane	ND	0.68	ND	0.19	
80-62-6	Methyl Methacrylate	ND	1.4	ND	0.35	
142-82-5	n-Heptane	0.88	0.68	0.21	0.17	
10061-01-5	cis-1,3-Dichloropropene	ND	0.70	ND	0.15	
108-10-1	4-Methyl-2-pentanone	ND	1.4	ND	0.35	
10061-02-6	trans-1,3-Dichloropropene	ND	0.66	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.14	ND	0.026	
108-88-3	Toluene	16	0.68	4.2	0.18	
591-78-6	2-Hexanone	ND	1.4	ND	0.35	
124-48-1	Dibromochloromethane	ND	0.14	ND	0.017	
106-93-4	1,2-Dibromoethane	ND	0.14	ND	0.018	
123-86-4	n-Butyl Acetate	ND	1.3	ND	0.27	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

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Client: New York State DEC
Client Sample ID: Building-4-SS1-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-009

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS00380

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.55 Final Pressure (psig): 3.58

Canister Dilution Factor: 1.29

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.70	ND	0.15	
127-18-4	Tetrachloroethene	3.3	0.14	0.48	0.021	
108-90-7	Chlorobenzene	ND	0.68	ND	0.15	
100-41-4	Ethylbenzene	1.7	0.68	0.38	0.16	
179601-23-1	m,p-Xylenes	5.0	1.4	1.1	0.33	
75-25-2	Bromoform	ND	0.70	ND	0.067	
100-42-5	Styrene	ND	0.68	ND	0.16	
95-47-6	o-Xylene	1.9	0.68	0.44	0.16	
111-84-2	n-Nonane	ND	0.68	ND	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	ND	0.021	
98-82-8	Cumene	ND	0.70	ND	0.14	
80-56-8	alpha-Pinene	1.6	1.4	0.28	0.25	
103-65-1	n-Propylbenzene	ND	0.70	ND	0.14	
622-96-8	4-Ethyltoluene	ND	0.71	ND	0.14	
108-67-8	1,3,5-Trimethylbenzene	ND	0.68	ND	0.14	
95-63-6	1,2,4-Trimethylbenzene	0.70	0.68	0.14	0.14	
100-44-7	Benzyl Chloride	ND UJ	2.7	ND	0.53	
541-73-1	1,3-Dichlorobenzene	ND	0.68	ND	0.11	
106-46-7	1,4-Dichlorobenzene	ND	0.68	ND	0.11	
95-50-1	1,2-Dichlorobenzene	ND	0.70	ND	0.12	
5989-27-5	d-Limonene	2.3	1.4	0.42	0.25	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.4	ND	0.15	
120-82-1	1,2,4-Trichlorobenzene	ND	1.4	ND	0.19	
91-20-3	Naphthalene	ND UJ	0.71	ND	0.14	
87-68-3	Hexachlorobutadiene	ND	0.68	ND	0.064	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

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Client: New York State DEC
Client Sample ID: Building-4-IA1-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-010

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01764

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.28 Final Pressure (psig): 3.74

Canister Dilution Factor: 1.23

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	1.0	0.65	0.60	0.38	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	0.65	0.44	0.13	
74-87-3	Chloromethane	0.52	0.26	0.25	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.64	ND	0.092	
75-01-4	Vinyl Chloride	ND	0.14	ND	0.053	
106-99-0	1,3-Butadiene	ND	0.26	ND	0.12	
74-83-9	Bromomethane	ND	0.26	ND	0.067	
75-00-3	Chloroethane	ND	0.26	ND	0.098	
64-17-5	Ethanol	8.1	6.2	4.3	3.3	
75-05-8	Acetonitrile	ND	1.2	ND	0.73	
107-02-8	Acrolein	ND	1.2	ND	0.54	
67-64-1	Acetone	ND	6.5	ND	2.7	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	0.64	0.18	0.11	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.6	1.3	0.64	0.51	
107-13-1	Acrylonitrile	ND	1.2	ND	0.57	
75-35-4	1,1-Dichloroethene	ND	0.14	ND	0.034	
75-09-2	Methylene Chloride	ND	0.65	ND	0.19	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.65	ND	0.21	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.66	ND	0.087	
75-15-0	Carbon Disulfide	ND	1.3	ND	0.42	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	ND	0.034	
75-34-3	1,1-Dichloroethane	ND	0.14	ND	0.033	
1634-04-4	Methyl tert-Butyl Ether	ND	0.66	ND	0.18	
108-05-4	Vinyl Acetate	ND	6.2	ND	1.7	
78-93-3	2-Butanone (MEK)	ND	1.3	ND	0.43	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

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Client: New York State DEC
Client Sample ID: Building-4-IA1-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-010

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01764

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.28 Final Pressure (psig): 3.74

Canister Dilution Factor: 1.23

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.14	ND	0.034	
141-78-6	Ethyl Acetate	4.8	2.6	1.3	0.72	
110-54-3	n-Hexane	ND	0.65	ND	0.19	
67-66-3	Chloroform	ND	0.14	ND	0.028	
109-99-9	Tetrahydrofuran (THF)	2.2	0.62	0.73	0.21	
107-06-2	1,2-Dichloroethane	ND	0.14	ND	0.033	
71-55-6	1,1,1-Trichloroethane	ND	0.14	ND	0.025	
71-43-2	Benzene	0.51	0.14	0.16	0.042	
56-23-5	Carbon Tetrachloride	0.34	0.14	0.053	0.022	
110-82-7	Cyclohexane	ND	1.3	ND	0.38	
78-87-5	1,2-Dichloropropane	ND	0.14	ND	0.029	
75-27-4	Bromodichloromethane	ND	0.14	ND	0.020	
79-01-6	Trichloroethene	ND	0.14	ND	0.025	
123-91-1	1,4-Dioxane	ND	0.65	ND	0.18	
80-62-6	Methyl Methacrylate	ND	1.4	ND	0.33	
142-82-5	n-Heptane	ND	0.65	ND	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.66	ND	0.15	
108-10-1	4-Methyl-2-pentanone	ND	1.4	ND	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	0.63	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.14	ND	0.025	
108-88-3	Toluene	4.6	0.65	1.2	0.17	
591-78-6	2-Hexanone	ND	1.4	ND	0.33	
124-48-1	Dibromochloromethane	ND	0.14	ND	0.016	
106-93-4	1,2-Dibromoethane	ND	0.14	ND	0.018	
123-86-4	n-Butyl Acetate	ND	1.2	ND	0.26	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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

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Client: New York State DEC
Client Sample ID: Building-4-IA1-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-010

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01764

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.28 Final Pressure (psig): 3.74

Canister Dilution Factor: 1.23

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.66	ND	0.14	
127-18-4	Tetrachloroethene	ND	0.14	ND	0.020	
108-90-7	Chlorobenzene	ND	0.65	ND	0.14	
100-41-4	Ethylbenzene	ND	0.65	ND	0.15	
179601-23-1	m,p-Xylenes	1.8	1.4	0.42	0.31	
75-25-2	Bromoform	ND	0.66	ND	0.064	
100-42-5	Styrene	ND	0.65	ND	0.15	
95-47-6	o-Xylene	0.67	0.65	0.16	0.15	
111-84-2	n-Nonane	ND	0.65	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	ND	0.020	
98-82-8	Cumene	ND	0.66	ND	0.14	
80-56-8	alpha-Pinene	ND	1.4	ND	0.24	
103-65-1	n-Propylbenzene	ND	0.66	ND	0.14	
622-96-8	4-Ethyltoluene	ND	0.68	ND	0.14	
108-67-8	1,3,5-Trimethylbenzene	ND	0.65	ND	0.13	
95-63-6	1,2,4-Trimethylbenzene	ND	0.65	ND	0.13	
100-44-7	Benzyl Chloride	ND	2.6	ND	0.50	UJ
541-73-1	1,3-Dichlorobenzene	ND	0.65	ND	0.11	
106-46-7	1,4-Dichlorobenzene	ND	0.65	ND	0.11	
95-50-1	1,2-Dichlorobenzene	ND	0.66	ND	0.11	
5989-27-5	d-Limonene	ND	1.4	ND	0.24	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.4	ND	0.14	
120-82-1	1,2,4-Trichlorobenzene	ND	1.4	ND	0.18	
91-20-3	Naphthalene	ND	0.68	ND	0.13	UJ
87-68-3	Hexachlorobutadiene	ND	0.65	ND	0.061	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: New York State DEC
Client Sample ID: Building-4-SS2-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-011

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC02405

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.88 Final Pressure (psig): 3.45

Canister Dilution Factor: 1.31

CAS #	Compound	Result $\mu\text{g}/\text{m}^3$	MRL $\mu\text{g}/\text{m}^3$	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	1.2	0.69	0.70	0.40	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	0.69	0.44	0.14	
74-87-3	Chloromethane	ND	0.28	ND	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.68	ND	0.097	
75-01-4	Vinyl Chloride	ND	0.14	ND	0.056	
106-99-0	1,3-Butadiene	ND	0.28	ND	0.12	
74-83-9	Bromomethane	ND	0.28	ND	0.071	
75-00-3	Chloroethane	ND	0.28	ND	0.10	
64-17-5	Ethanol	27	6.6	14	3.5	
75-05-8	Acetonitrile	ND	1.3	ND	0.78	
107-02-8	Acrolein	ND	1.3	ND	0.57	
67-64-1	Acetone	8.6	6.9	3.6	2.9	
75-69-4	Trichlorofluoromethane (CFC 11)	1.2	0.68	0.22	0.12	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.6	1.3	0.64	0.55	
107-13-1	Acrylonitrile	ND	1.3	ND	0.60	
75-35-4	1,1-Dichloroethene	ND	0.14	ND	0.036	
75-09-2	Methylene Chloride	ND	0.69	ND	0.20	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.69	ND	0.22	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.71	ND	0.092	
75-15-0	Carbon Disulfide	ND	1.4	ND	0.45	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	ND	0.036	
75-34-3	1,1-Dichloroethane	ND	0.14	ND	0.036	
1634-04-4	Methyl tert-Butyl Ether	ND	0.71	ND	0.20	
108-05-4	Vinyl Acetate	ND	6.6	ND	1.9	
78-93-3	2-Butanone (MEK)	ND	1.4	ND	0.46	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

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Client: New York State DEC
Client Sample ID: Building-4-SS2-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-011

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC02405

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.88 Final Pressure (psig): 3.45

Canister Dilution Factor: 1.31

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.14	ND	0.036	
141-78-6	Ethyl Acetate	13	2.8	3.5	0.76	
110-54-3	n-Hexane	ND	0.69	ND	0.20	
67-66-3	Chloroform	ND	0.14	ND	0.030	
109-99-9	Tetrahydrofuran (THF)	1.4	0.66	0.47	0.22	
107-06-2	1,2-Dichloroethane	ND	0.14	ND	0.036	
71-55-6	1,1,1-Trichloroethane	0.18	0.14	0.032	0.026	
71-43-2	Benzene	0.54	0.14	0.17	0.045	
56-23-5	Carbon Tetrachloride	0.17	0.14	0.026	0.023	
110-82-7	Cyclohexane	ND	1.4	ND	0.40	
78-87-5	1,2-Dichloropropane	ND	0.14	ND	0.031	
75-27-4	Bromodichloromethane	ND	0.14	ND	0.022	
79-01-6	Trichloroethene	ND	0.14	ND	0.027	
123-91-1	1,4-Dioxane	ND	0.69	ND	0.19	
80-62-6	Methyl Methacrylate	ND	1.4	ND	0.35	
142-82-5	n-Heptane	ND	0.69	ND	0.17	
10061-01-5	cis-1,3-Dichloropropene	ND	0.71	ND	0.16	
108-10-1	4-Methyl-2-pentanone	ND	1.4	ND	0.35	
10061-02-6	trans-1,3-Dichloropropene	ND	0.67	ND	0.15	
79-00-5	1,1,2-Trichloroethane	ND	0.14	ND	0.026	
108-88-3	Toluene	4.6	0.69	1.2	0.18	
591-78-6	2-Hexanone	ND	1.4	ND	0.35	
124-48-1	Dibromochloromethane	ND	0.14	ND	0.017	
106-93-4	1,2-Dibromoethane	ND	0.14	ND	0.019	
123-86-4	n-Butyl Acetate	ND	1.3	ND	0.28	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

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Client: New York State DEC
Client Sample ID: Building-4-SS2-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-011

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC02405

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.88 Final Pressure (psig): 3.45

Canister Dilution Factor: 1.31

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.71	ND	0.15	
127-18-4	Tetrachloroethene	2.3	0.14	0.34	0.021	
108-90-7	Chlorobenzene	ND	0.69	ND	0.15	
100-41-4	Ethylbenzene	ND	0.69	ND	0.16	
179601-23-1	m,p-Xylenes	2.2	1.4	0.50	0.33	
75-25-2	Bromoform	ND	0.71	ND	0.068	
100-42-5	Styrene	ND	0.69	ND	0.16	
95-47-6	o-Xylene	0.82	0.69	0.19	0.16	
111-84-2	n-Nonane	ND	0.69	ND	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	ND	0.021	
98-82-8	Cumene	ND	0.71	ND	0.14	
80-56-8	alpha-Pinene	ND	1.4	ND	0.26	
103-65-1	n-Propylbenzene	ND	0.71	ND	0.14	
622-96-8	4-Ethyltoluene	ND	0.72	ND	0.15	
108-67-8	1,3,5-Trimethylbenzene	ND	0.69	ND	0.14	
95-63-6	1,2,4-Trimethylbenzene	ND	0.69	ND	0.14	
100-44-7	Benzyl Chloride	ND UJ	2.8	ND	0.54	
541-73-1	1,3-Dichlorobenzene	ND	0.69	ND	0.12	
106-46-7	1,4-Dichlorobenzene	ND	0.69	ND	0.12	
95-50-1	1,2-Dichlorobenzene	ND	0.71	ND	0.12	
5989-27-5	d-Limonene	ND	1.4	ND	0.26	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.4	ND	0.15	
120-82-1	1,2,4-Trichlorobenzene	ND	1.4	ND	0.19	
91-20-3	Naphthalene	ND UJ	0.72	ND	0.14	
87-68-3	Hexachlorobutadiene	ND	0.69	ND	0.065	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALH 4/4/23

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: New York State DEC
Client Sample ID: Building-4-IA2-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-012

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01079

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.03 Final Pressure (psig): 3.58

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	2.5	0.66	1.5	0.38	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.0	0.66	0.41	0.13	
74-87-3	Chloromethane	0.43	0.26	0.21	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.64	ND	0.092	
75-01-4	Vinyl Chloride	ND	0.14	ND	0.053	
106-99-0	1,3-Butadiene	ND	0.26	ND	0.12	
74-83-9	Bromomethane	ND	0.26	ND	0.067	
75-00-3	Chloroethane	ND	0.26	ND	0.099	
64-17-5	Ethanol	63	6.2	33	3.3	
75-05-8	Acetonitrile	ND	1.2	ND	0.74	
107-02-8	Acrolein	ND	1.2	ND	0.54	
67-64-1	Acetone	42	6.5	18	2.8	
75-69-4	Trichlorofluoromethane (CFC 11)	0.94	0.64	0.17	0.11	
67-63-0	2-Propanol (Isopropyl Alcohol)	8.5	1.3	3.5	0.52	
107-13-1	Acrylonitrile	ND	1.2	ND	0.57	
75-35-4	1,1-Dichloroethene	ND	0.14	ND	0.034	
75-09-2	Methylene Chloride	3.6	0.66	1.0	0.19	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.66	ND	0.21	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.67	ND	0.087	
75-15-0	Carbon Disulfide	ND	1.3	ND	0.43	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	ND	0.034	
75-34-3	1,1-Dichloroethane	ND	0.14	ND	0.034	
1634-04-4	Methyl tert-Butyl Ether	ND	0.67	ND	0.19	
108-05-4	Vinyl Acetate	ND	6.2	ND	1.8	
78-93-3	2-Butanone (MEK)	6.1	1.3	2.1	0.44	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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

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Client: New York State DEC
Client Sample ID: Building-4-IA2-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-012

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01079

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.03 Final Pressure (psig): 3.58

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.14	ND	0.034	
141-78-6	Ethyl Acetate	69	2.6	19	0.72	
110-54-3	n-Hexane	4.6	0.66	1.3	0.19	
67-66-3	Chloroform	0.40	0.14	0.081	0.028	
109-99-9	Tetrahydrofuran (THF)	7.5	0.62	2.5	0.21	
107-06-2	1,2-Dichloroethane	0.97	0.14	0.24	0.034	
71-55-6	1,1,1-Trichloroethane	ND	0.14	ND	0.025	
71-43-2	Benzene	2.8	0.14	0.87	0.043	
56-23-5	Carbon Tetrachloride	0.32	0.14	0.051	0.022	
110-82-7	Cyclohexane	3.4	1.3	0.98	0.38	
78-87-5	1,2-Dichloropropane	2.7	0.14	0.59	0.030	
75-27-4	Bromodichloromethane	ND	0.14	ND	0.020	
79-01-6	Trichloroethene	ND	0.14	ND	0.025	
123-91-1	1,4-Dioxane	ND	0.66	ND	0.18	
80-62-6	Methyl Methacrylate	ND	1.4	ND	0.33	
142-82-5	n-Heptane	2.5	0.66	0.62	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.67	ND	0.15	
108-10-1	4-Methyl-2-pentanone	ND	1.4	ND	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	0.63	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.14	ND	0.025	
108-88-3	Toluene	62	0.66	16	0.17	
591-78-6	2-Hexanone	ND	1.4	ND	0.33	
124-48-1	Dibromochloromethane	ND	0.14	ND	0.016	
106-93-4	1,2-Dibromoethane	ND	0.14	ND	0.018	
123-86-4	n-Butyl Acetate	1.5	1.2	0.31	0.26	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

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Client: New York State DEC
Client Sample ID: Building-4-IA2-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-012

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01079

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.03 Final Pressure (psig): 3.58

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	0.84	0.67	0.18	0.14	
127-18-4	Tetrachloroethene	0.98	0.14	0.14	0.020	
108-90-7	Chlorobenzene	ND	0.66	ND	0.14	
100-41-4	Ethylbenzene	5.5	0.66	1.3	0.15	
179601-23-1	m,p-Xylenes	15	1.4	3.4	0.31	
75-25-2	Bromoform	ND	0.67	ND	0.065	
100-42-5	Styrene	1.8	0.66	0.43	0.15	
95-47-6	o-Xylene	5.7	0.66	1.3	0.15	
111-84-2	n-Nonane	ND	0.66	ND	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	ND	0.020	
98-82-8	Cumene	ND	0.67	ND	0.14	
80-56-8	alpha-Pinene	16	1.4	2.9	0.24	
103-65-1	n-Propylbenzene	ND	0.67	ND	0.14	
622-96-8	4-Ethyltoluene	ND	0.68	ND	0.14	
108-67-8	1,3,5-Trimethylbenzene	ND	0.66	ND	0.13	
95-63-6	1,2,4-Trimethylbenzene	1.7	0.66	0.36	0.13	
100-44-7	Benzyl Chloride	ND UJ	2.6	ND	0.51	
541-73-1	1,3-Dichlorobenzene	ND	0.66	ND	0.11	
106-46-7	1,4-Dichlorobenzene	ND	0.66	ND	0.11	
95-50-1	1,2-Dichlorobenzene	ND	0.67	ND	0.11	
5989-27-5	d-Limonene	10	1.4	1.9	0.24	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.4	ND	0.14	
120-82-1	1,2,4-Trichlorobenzene	ND	1.4	ND	0.18	
91-20-3	Naphthalene	ND UJ	0.68	ND	0.13	
87-68-3	Hexachlorobutadiene	ND	0.66	ND	0.062	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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RESULTS OF ANALYSIS

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Client: New York State DEC
Client Sample ID: Armonk-IA-Dup-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-013

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01667

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21 - 3/22/23
 Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -0.95 Final Pressure (psig): 3.43

Canister Dilution Factor: 1.32

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	6.1	0.70	3.5	0.41	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	0.70	0.45	0.14	
74-87-3	Chloromethane	0.64	0.28	0.31	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.69	ND	0.098	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.057	
106-99-0	1,3-Butadiene	ND	0.28	ND	0.13	
74-83-9	Bromomethane	ND	0.28	ND	0.071	
75-00-3	Chloroethane	ND	0.28	ND	0.11	
64-17-5	Ethanol	890	33	470	18	D
75-05-8	Acetonitrile	ND	1.3	ND	0.79	
107-02-8	Acrolein	ND	1.3	ND	0.58	
67-64-1	Acetone	26	7.0	11	2.9	
75-69-4	Trichlorofluoromethane (CFC 11)	1.8	0.69	0.31	0.12	
67-63-0	2-Propanol (Isopropyl Alcohol)	16	1.4	6.4	0.55	
107-13-1	Acrylonitrile	ND	1.3	ND	0.61	
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.037	
75-09-2	Methylene Chloride	ND	0.70	ND	0.20	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.70	ND	0.22	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.71	ND	0.093	
75-15-0	Carbon Disulfide	ND	1.4	ND	0.45	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.037	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.036	
1634-04-4	Methyl tert-Butyl Ether	ND	0.71	ND	0.20	
108-05-4	Vinyl Acetate	ND	6.6	ND	1.9	
78-93-3	2-Butanone (MEK)	2.5	1.4	0.84	0.47	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

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RESULTS OF ANALYSIS

Page 2 of 3

Client: New York State DEC
Client Sample ID: Armonk-IA-Dup-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-013

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01667

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21 - 3/22/23
 Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -0.95 Final Pressure (psig): 3.43

Canister Dilution Factor: 1.32

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.15	ND	0.037	
141-78-6	Ethyl Acetate	12	2.8	3.3	0.77	
110-54-3	n-Hexane	2.6	0.70	0.74	0.20	
67-66-3	Chloroform	1.3	0.15	0.26	0.030	
109-99-9	Tetrahydrofuran (THF)	1.2 J	0.66	0.41	0.22	
107-06-2	1,2-Dichloroethane	ND	0.15	ND	0.036	
71-55-6	1,1,1-Trichloroethane	ND	0.15	ND	0.027	
71-43-2	Benzene	1.0	0.15	0.32	0.045	
56-23-5	Carbon Tetrachloride	0.54	0.15	0.085	0.023	
110-82-7	Cyclohexane	ND	1.4	ND	0.40	
78-87-5	1,2-Dichloropropane	ND	0.15	ND	0.031	
75-27-4	Bromodichloromethane	0.22	0.15	0.033	0.022	
79-01-6	Trichloroethene	ND	0.15	ND	0.027	
123-91-1	1,4-Dioxane	ND	0.70	ND	0.19	
80-62-6	Methyl Methacrylate	ND	1.5	ND	0.35	
142-82-5	n-Heptane	ND	0.70	ND	0.17	
10061-01-5	cis-1,3-Dichloropropene	ND	0.71	ND	0.16	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.35	
10061-02-6	trans-1,3-Dichloropropene	ND	0.67	ND	0.15	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.027	
108-88-3	Toluene	10 J	0.70	2.7	0.19	
591-78-6	2-Hexanone	ND	1.5	ND	0.35	
124-48-1	Dibromochloromethane	ND	0.15	ND	0.017	
106-93-4	1,2-Dibromoethane	ND	0.15	ND	0.019	
123-86-4	n-Butyl Acetate	ND	1.3	ND	0.28	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: New York State DEC
Client Sample ID: Armonk-IA-Dup-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-013

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01667

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21 - 3/22/23
 Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -0.95 Final Pressure (psig): 3.43

Canister Dilution Factor: 1.32

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	0.90	0.71	0.19	0.15	
127-18-4	Tetrachloroethene	ND	0.15	ND	0.021	
108-90-7	Chlorobenzene	ND	0.70	ND	0.15	
100-41-4	Ethylbenzene	0.78	0.70	0.18	0.16	
179601-23-1	m,p-Xylenes	2.4	1.5	0.54	0.33	
75-25-2	Bromoform	ND	0.71	ND	0.069	
100-42-5	Styrene	ND	0.70	ND	0.16	
95-47-6	o-Xylene	0.92	0.70	0.21	0.16	
111-84-2	n-Nonane	1.7	0.70	0.33	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.021	
98-82-8	Cumene	ND	0.71	ND	0.15	
80-56-8	alpha-Pinene	9.3	1.5	1.7	0.26	
103-65-1	n-Propylbenzene	ND	0.71	ND	0.15	
622-96-8	4-Ethyltoluene	ND	0.73	ND	0.15	
108-67-8	1,3,5-Trimethylbenzene	ND	0.70	ND	0.14	
95-63-6	1,2,4-Trimethylbenzene	ND	0.70	ND	0.14	
100-44-7	Benzyl Chloride	ND UJ	2.8	ND	0.54	
541-73-1	1,3-Dichlorobenzene	ND	0.70	ND	0.12	
106-46-7	1,4-Dichlorobenzene	ND	0.70	ND	0.12	
95-50-1	1,2-Dichlorobenzene	ND	0.71	ND	0.12	
5989-27-5	d-Limonene	22	1.5	3.9	0.26	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.5	ND	0.15	
120-82-1	1,2,4-Trichlorobenzene	ND	1.5	ND	0.20	
91-20-3	Naphthalene	ND UJ	0.73	ND	0.14	
87-68-3	Hexachlorobutadiene	ND	0.70	ND	0.066	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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Appendix F - Laboratory Reports



LABORATORY REPORT

April 26, 2022

Robert Strang
NYS Department of Environmental Conservation
625 Broadway 12th Floor
Albany, NY 12233-7017

RE: Armonk PWS / 60628211

Dear Robert:

Enclosed are the results of the samples submitted to our laboratory on April 8, 2022. For your reference, these analyses have been assigned our service request number P2201602.

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 Nicole.Bryson at 3:00 pm, Apr 26, 2022

Nicole Bryson
Laboratory Director



Client: NYS Department of Environmental Conservation
Project: Armonk PWS / 60628211

Service Request No: P2201602
New York Lab ID: 11221

CASE NARRATIVE

The samples were received intact under chain of custody on April 8, 2022 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 containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.3 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	http://dec.alaska.gov/eh/lab.aspx	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)	http://www.deq.louisiana.gov/page/la-lab-accreditation	05071
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml	2018027
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	1776326
New Jersey DEP (NELAP)	http://www.nj.gov/dep/enforcement/oqa.html	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	4068-008
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	T104704413-19-10
Utah DOH (NELAP)	http://health.utah.gov/lab/lab_cert_env	CA016272019-10
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: NYS Department of Environmental Conservation
 Project ID: Armonk PWS / 60628211

Service Request: P2201602

Date Received: 4/8/2022
 Time Received: 16:04

TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	
Armonk-OA-040722	P2201602-001	Air	4/7/2022	14:20	AC01909	0.75	3.94	X
Building-1-SS1-040722	P2201602-002	Air	4/7/2022	14:44	AC02308	-3.15	4.10	X
Building-1-IA-040722	P2201602-003	Air	4/7/2022	14:34	AS00848	0.33	4.26	X
Building-1-SS2-040722	P2201602-004	Air	4/7/2022	14:37	AC02152	0.41	4.33	X
Building-2-SS1-040722	P2201602-005	Air	4/7/2022	14:52	AC02365	0.44	4.02	X
Building-2-IA-040722	P2201602-006	Air	4/7/2022	14:50	AS01687	-0.03	4.00	X
Building-2-SS2-040722	P2201602-007	Air	4/7/2022	14:55	AC01564	-1.85	4.05	X
Building-3-IA-040722	P2201602-008	Air	4/7/2022	15:03	AC02099	0.43	4.30	X
Armonk-IA-DUP-040722	P2201602-009	Air	4/7/2022	00:00	AC01608	0.43	4.07	X

**ALS Environmental
Sample Acceptance Check Form**

Client: AECOM Work order: P2201602
 Project: Armonk PWS / 60628211
 Sample(s) received on: 4/8/22 Date opened: 4/8/22 by: KYLE.WOODIN

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? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 | Did sample containers arrive in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 | Were chain-of-custody papers used and filled out? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 | Did sample container labels and/or tags agree with custody papers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 | Was sample volume received adequate for analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 | Are samples within specified holding times? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 | Was proper temperature (thermal preservation) of cooler at receipt adhered to? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 | Were custody seals on outside of cooler/Box/Container? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 9 | Do containers have appropriate preservation , according to method/SOP or Client specified information? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | Is there a client indication that the submitted samples are pH preserved? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | Were VOA vials checked for presence/absence of air bubbles? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 | Tubes: Are the tubes capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 | Badges: Are the badges properly capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | Are dual bed badges separated and individually capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2201602-001.01	6.0 L Ambient Can					
P2201602-002.01	6.0 L Ambient Can					
P2201602-003.01	6.0 L Silonite Can					
P2201602-004.01	6.0 L Ambient Can					
P2201602-005.01	6.0 L Ambient Can					
P2201602-006.01	6.0 L Silonite Can					
P2201602-007.01	6.0 L Ambient Can					
P2201602-008.01	6.0 L Ambient Can					
P2201602-009.01	6.0 L Ambient Can					

Explain any discrepancies: (include lab sample ID numbers): _____

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
P2201602-001	Air	4/7/2022	4/8/2022	NA	4/14/2022
P2201602-002	Air	4/7/2022	4/8/2022	NA	4/14/2022
P2201602-003	Air	4/7/2022	4/8/2022	NA	4/14/2022
P2201602-004	Air	4/7/2022	4/8/2022	NA	4/14/2022
P2201602-005	Air	4/7/2022	4/8/2022	NA	4/14/2022
P2201602-006	Air	4/7/2022	4/8/2022	NA	4/14/2022-4/15/2022
P2201602-007	Air	4/7/2022	4/8/2022	NA	4/14/2022
P2201602-008	Air	4/7/2022	4/8/2022	NA	4/14/2022-4/15/2022
P2201602-009	Air	4/7/2022	4/8/2022	NA	4/14/2022-4/15/2022



Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A
 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. **P2201602**

Company Name & Address (Reporting Information)
 AECOM
 40 British American Blvd.
 Latham NY 12110

Project Manager
 Lindsay Mitchell

Phone: 518-951-2373

Project Name
 Armonk PWS

Project Number
 60628211

P.O. # / Billing Information
 AECOM Accounts Receivable
 40 British American Blvd.
 Latham NY 12110

ALS Contact:
Analysis Method
 TD-15 L1 STD
 750.1

Comments
 e.g. Actual Preservative or specific instructions

Email Address for Result Reporting
 lindsay.mitchell@aecom.com

Sampler (Print & Sign)
 Steve Gray, Chris French *Steve Gray*

Client Sample ID	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		
Armonk-OA-040722	1	4/7/22	1420	AC1909	SFC00021	30 27.63	1.5	6L	X	
Building-1-SS1-040722	2		1444	AC02308	SFC00598	29	8.0			
Building-1-IA-040722	3		1434	AS00848	SFC00114	18	0.0			
Building-1-SS2-040722	4		1437	AC02152	SFC00344	24	0.5			
Building-2-SS1-040722	5		1452	AC02365	SFC00211	30	20			
Building-2-IA-040722	6		1450	AS01687	SFC00493	30	0.0			
Building-2-SS2-040722	7		1455	AC01564	SFC00477	30	5.0			
Building-3-IA-040722	8		1503	AC02099	SFC00596	730	3.0			
Armonk-IA-Dup-040722	9			AC01608	SFC0049	30	0.0			
/										

Report Tier Levels - please select

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 _____

EDD required Yes No _____
 Type: **NYSDEC Equi's** Units: _____

Chain of Custody Seal: (Circle)
 INTACT BROKEN _____ ABSENT _____

Project Requirements (MRLs, QAPP)

Relinquished by: (Signature) *Chris French*
 Date: 4/7/22

Time: 1705

Received by: (Signature) *[Signature]*
 Date: 4/8

Time: 1604

Cooler / Blank Temperature _____ °C

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: NYS Department of Environmental Conservation
Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister(s) / 6.0 L Silonite Canister(s)
 Test Notes:

Date(s) Collected: 4/7/22
 Date(s) Received: 4/8/22
 Date(s) Analyzed: 4/14 - 4/15/22

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	P220414-MB	104	100	80	70-130	
Method Blank	P220415-MB	105	99	82	70-130	
Lab Control Sample	P220414-LCS	103	95	83	70-130	
Lab Control Sample	P220415-LCS	102	96	86	70-130	
Duplicate Lab Control Sample	P220414-DLCS	102	102	85	70-130	
Duplicate Lab Control Sample	P220415-DLCS	102	95	92	70-130	
Armonk-OA-040722	P2201602-001	98	104	94	70-130	
Building-1-SS1-040722	P2201602-002	102	100	89	70-130	
Building-1-IA-040722	P2201602-003	104	100	96	70-130	
Building-1-SS2-040722	P2201602-004	104	100	88	70-130	
Building-2-SS1-040722	P2201602-005	103	99	86	70-130	
Building-2-IA-040722	P2201602-006	103	99	87	70-130	
Building-2-SS2-040722	P2201602-007	103	100	85	70-130	
Building-3-IA-040722	P2201602-008	104	99	86	70-130	
Armonk-IA-DUP-040722	P2201602-009	103	98	86	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 3

Client: NYS Department of Environmental Conservation
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602
 ALS Sample ID: P220414-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/14/22
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
115-07-1	Propene	206	210	209	102	101	56-128	1	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	208	199	204	96	98	71-112	2	25	
74-87-3	Chloromethane	206	227	230	110	112	53-126	2	25	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	208	200	205	96	99	62-121	3	25	
75-01-4	Vinyl Chloride	208	222	223	107	107	63-123	0	25	
106-99-0	1,3-Butadiene	206	232	231	113	112	63-135	0.9	25	
74-83-9	Bromomethane	206	215	218	104	106	71-112	2	25	
75-00-3	Chloroethane	206	209	212	101	103	66-117	2	25	
64-17-5	Ethanol	832	876	865	105	104	57-117	1	25	
75-05-8	Acetonitrile	202	193	191	96	95	59-131	1	25	
107-02-8	Acrolein	416	443	437	106	105	71-123	0.9	25	
67-64-1	Acetone	1,020	1040	1020	102	100	60-117	2	25	
75-69-4	Trichlorofluoromethane (CFC 11)	202	194	197	96	98	71-114	2	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	400	448	446	112	112	61-124	0	25	
107-13-1	Acrylonitrile	402	429	421	107	105	65-130	2	25	
75-35-4	1,1-Dichloroethene	210	214	214	102	102	74-114	0	25	
75-09-2	Methylene Chloride	208	210	207	101	100	75-112	1	25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	204	208	204	102	100	57-127	2	25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	216	199	199	92	92	73-114	0	25	
75-15-0	Carbon Disulfide	414	447	449	108	108	70-113	0	25	
156-60-5	trans-1,2-Dichloroethene	208	224	223	108	107	76-119	0.9	25	
75-34-3	1,1-Dichloroethane	214	218	216	102	101	70-114	1	25	
1634-04-4	Methyl tert-Butyl Ether	206	216	206	105	100	72-118	5	25	
108-05-4	Vinyl Acetate	942	1260	1260	134	134	56-137	0	25	
78-93-3	2-Butanone (MEK)	408	442	437	108	107	74-121	0.9	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 3

Client: NYS Department of Environmental Conservation

Client Sample ID: Duplicate Lab Control Sample

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P220414-DLCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/14/22

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		ALS		RPD	RPD	Data
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	% Recovery LCS DLCS	Acceptance Limits	Limit			
156-59-2	cis-1,2-Dichloroethene	206	216	214	105	104	73-117	1	25	
141-78-6	Ethyl Acetate	580	666	650	115	112	59-161	3	25	
110-54-3	n-Hexane	208	238	233	114	112	55-130	2	25	
67-66-3	Chloroform	210	215	212	102	101	71-114	1	25	
109-99-9	Tetrahydrofuran (THF)	404	431	425	107	105	73-114	2	25	
107-06-2	1,2-Dichloroethane	210	215	215	102	102	71-119	0	25	
71-55-6	1,1,1-Trichloroethane	208	207	210	100	101	73-119	1	25	
71-43-2	Benzene	208	208	209	100	100	72-113	0	25	
56-23-5	Carbon Tetrachloride	202	203	206	100	102	67-123	2	25	
110-82-7	Cyclohexane	412	425	427	103	104	70-119	1	25	
78-87-5	1,2-Dichloropropane	206	212	220	103	107	70-118	4	25	
75-27-4	Bromodichloromethane	208	221	239	106	115	74-119	8	25	
79-01-6	Trichloroethene	204	199	216	98	106	74-115	8	25	
123-91-1	1,4-Dioxane	206	217	234	105	114	77-124	8	25	
80-62-6	Methyl Methacrylate	410	441	479	108	117	78-126	8	25	
142-82-5	n-Heptane	206	215	230	104	112	70-119	7	25	
10061-01-5	cis-1,3-Dichloropropene	208	232	248	112	119	81-126	6	25	
108-10-1	4-Methyl-2-pentanone	412	454	476	110	116	73-129	5	25	
10061-02-6	trans-1,3-Dichloropropene	200	225	242	113	121	80-127	7	25	
79-00-5	1,1,2-Trichloroethane	208	207	220	100	106	78-117	6	25	
108-88-3	Toluene	206	191	206	93	100	70-118	7	25	
591-78-6	2-Hexanone	406	432	455	106	112	74-132	6	25	
124-48-1	Dibromochloromethane	210	202	221	96	105	69-137	9	25	
106-93-4	1,2-Dibromoethane	208	198	202	95	97	76-128	2	25	
123-86-4	n-Butyl Acetate	406	444	446	109	110	75-134	0.9	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 3 of 3

Client: NYS Department of Environmental Conservation
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602
 ALS Sample ID: P220414-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/14/22
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
111-65-9	n-Octane	208	202	203	97	98	68-120	1	25	
127-18-4	Tetrachloroethene	212	184	187	87	88	63-130	1	25	
108-90-7	Chlorobenzene	206	189	193	92	94	70-118	2	25	
100-41-4	Ethylbenzene	206	200	204	97	99	71-123	2	25	
179601-23-1	m,p-Xylenes	416	407	413	98	99	67-127	1	25	
75-25-2	Bromoform	210	203	208	97	99	65-149	2	25	
100-42-5	Styrene	202	199	201	99	100	76-132	1	25	
95-47-6	o-Xylene	208	203	206	98	99	69-124	1	25	
111-84-2	n-Nonane	208	210	209	101	100	64-127	1	25	
79-34-5	1,1,2,2-Tetrachloroethane	208	206	209	99	100	69-128	1	25	
98-82-8	Cumene	206	197	200	96	97	69-125	1	25	
80-56-8	alpha-Pinene	210	209	212	100	101	68-129	1	25	
103-65-1	n-Propylbenzene	208	204	206	98	99	70-127	1	25	
622-96-8	4-Ethyltoluene	208	206	207	99	100	69-127	1	25	
108-67-8	1,3,5-Trimethylbenzene	208	205	207	99	100	66-129	1	25	
95-63-6	1,2,4-Trimethylbenzene	206	218	221	106	107	63-142	0.9	25	
100-44-7	Benzyl Chloride	416	459	472	110	113	73-145	3	25	
541-73-1	1,3-Dichlorobenzene	208	201	204	97	98	67-136	1	25	
106-46-7	1,4-Dichlorobenzene	210	194	195	92	93	63-134	1	25	
95-50-1	1,2-Dichlorobenzene	210	198	200	94	95	64-139	1	25	
5989-27-5	d-Limonene	206	216	218	105	106	63-137	0.9	25	
96-12-8	1,2-Dibromo-3-chloropropane	404	377	392	93	97	72-145	4	25	
120-82-1	1,2,4-Trichlorobenzene	420	314	337	75	80	62-154	6	25	
91-20-3	Naphthalene	210	155	169	74	80	62-156	8	25	
87-68-3	Hexachlorobutadiene	212	155	164	73	77	55-142	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 3

Client: NYS Department of Environmental Conservation
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602
 ALS Sample ID: P220415-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/15/22
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
115-07-1	Propene	206	202	206	98	100	56-128	2	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	208	197	203	95	98	71-112	3	25	
74-87-3	Chloromethane	206	223	227	108	110	53-126	2	25	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	208	201	209	97	100	62-121	3	25	
75-01-4	Vinyl Chloride	208	217	222	104	107	63-123	3	25	
106-99-0	1,3-Butadiene	206	228	231	111	112	63-135	0.9	25	
74-83-9	Bromomethane	206	212	218	103	106	71-112	3	25	
75-00-3	Chloroethane	206	205	213	100	103	66-117	3	25	
64-17-5	Ethanol	832	852	855	102	103	57-117	1	25	
75-05-8	Acetonitrile	202	187	188	93	93	59-131	0	25	
107-02-8	Acrolein	416	431	430	104	103	71-123	1	25	
67-64-1	Acetone	1,020	1020	1010	100	99	60-117	1	25	
75-69-4	Trichlorofluoromethane (CFC 11)	202	191	197	95	98	71-114	3	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	400	438	440	110	110	61-124	0	25	
107-13-1	Acrylonitrile	402	418	415	104	103	65-130	1	25	
75-35-4	1,1-Dichloroethene	210	211	213	100	101	74-114	1	25	
75-09-2	Methylene Chloride	208	208	207	100	100	75-112	0	25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	204	201	201	99	99	57-127	0	25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	216	198	201	92	93	73-114	1	25	
75-15-0	Carbon Disulfide	414	438	443	106	107	70-113	0.9	25	
156-60-5	trans-1,2-Dichloroethene	208	220	222	106	107	76-119	0.9	25	
75-34-3	1,1-Dichloroethane	214	213	215	100	100	70-114	0	25	
1634-04-4	Methyl tert-Butyl Ether	206	215	206	104	100	72-118	4	25	
108-05-4	Vinyl Acetate	942	1250	1250	133	133	56-137	0	25	
78-93-3	2-Butanone (MEK)	408	437	436	107	107	74-121	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 3

Client: NYS Department of Environmental Conservation

Client Sample ID: Duplicate Lab Control Sample

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P220415-DLCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/15/22

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
156-59-2	cis-1,2-Dichloroethene	206	212	213	103	103	73-117	0	25	
141-78-6	Ethyl Acetate	580	650	642	112	111	59-161	0.9	25	
110-54-3	n-Hexane	208	232	230	112	111	55-130	0.9	25	
67-66-3	Chloroform	210	211	214	100	102	71-114	2	25	
109-99-9	Tetrahydrofuran (THF)	404	425	427	105	106	73-114	0.9	25	
107-06-2	1,2-Dichloroethane	210	211	213	100	101	71-119	1	25	
71-55-6	1,1,1-Trichloroethane	208	206	207	99	100	73-119	1	25	
71-43-2	Benzene	208	205	206	99	99	72-113	0	25	
56-23-5	Carbon Tetrachloride	202	201	203	100	100	67-123	0	25	
110-82-7	Cyclohexane	412	419	419	102	102	70-119	0	25	
78-87-5	1,2-Dichloropropane	206	208	209	101	101	70-118	0	25	
75-27-4	Bromodichloromethane	208	218	219	105	105	74-119	0	25	
79-01-6	Trichloroethene	204	196	197	96	97	74-115	1	25	
123-91-1	1,4-Dioxane	206	217	218	105	106	77-124	0.9	25	
80-62-6	Methyl Methacrylate	410	439	439	107	107	78-126	0	25	
142-82-5	n-Heptane	206	210	211	102	102	70-119	0	25	
10061-01-5	cis-1,3-Dichloropropene	208	228	230	110	111	81-126	0.9	25	
108-10-1	4-Methyl-2-pentanone	412	443	442	108	107	73-129	0.9	25	
10061-02-6	trans-1,3-Dichloropropene	200	221	223	111	112	80-127	0.9	25	
79-00-5	1,1,2-Trichloroethane	208	203	204	98	98	78-117	0	25	
108-88-3	Toluene	206	191	191	93	93	70-118	0	25	
591-78-6	2-Hexanone	406	419	418	103	103	74-132	0	25	
124-48-1	Dibromochloromethane	210	203	204	97	97	69-137	0	25	
106-93-4	1,2-Dibromoethane	208	198	199	95	96	76-128	1	25	
123-86-4	n-Butyl Acetate	406	435	430	107	106	75-134	0.9	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 3 of 3

Client: NYS Department of Environmental Conservation
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602
 ALS Sample ID: P220415-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/15/22
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
111-65-9	n-Octane	208	200	199	96	96	68-120	0	25	
127-18-4	Tetrachloroethene	212	185	187	87	88	63-130	1	25	
108-90-7	Chlorobenzene	206	190	190	92	92	70-118	0	25	
100-41-4	Ethylbenzene	206	199	199	97	97	71-123	0	25	
179601-23-1	m,p-Xylenes	416	413	406	99	98	67-127	1	25	
75-25-2	Bromoform	210	220	206	105	98	65-149	7	25	
100-42-5	Styrene	202	209	198	103	98	76-132	5	25	
95-47-6	o-Xylene	208	213	202	102	97	69-124	5	25	
111-84-2	n-Nonane	208	208	202	100	97	64-127	3	25	
79-34-5	1,1,2,2-Tetrachloroethane	208	212	204	102	98	69-128	4	25	
98-82-8	Cumene	206	195	198	95	96	69-125	1	25	
80-56-8	alpha-Pinene	210	206	207	98	99	68-129	1	25	
103-65-1	n-Propylbenzene	208	201	201	97	97	70-127	0	25	
622-96-8	4-Ethyltoluene	208	203	203	98	98	69-127	0	25	
108-67-8	1,3,5-Trimethylbenzene	208	202	203	97	98	66-129	1	25	
95-63-6	1,2,4-Trimethylbenzene	206	215	215	104	104	63-142	0	25	
100-44-7	Benzyl Chloride	416	455	460	109	111	73-145	2	25	
541-73-1	1,3-Dichlorobenzene	208	200	202	96	97	67-136	1	25	
106-46-7	1,4-Dichlorobenzene	210	194	193	92	92	63-134	0	25	
95-50-1	1,2-Dichlorobenzene	210	198	197	94	94	64-139	0	25	
5989-27-5	d-Limonene	206	209	210	101	102	63-137	1	25	
96-12-8	1,2-Dibromo-3-chloropropane	404	392	396	97	98	72-145	1	25	
120-82-1	1,2,4-Trichlorobenzene	420	344	353	82	84	62-154	2	25	
91-20-3	Naphthalene	210	173	179	82	85	62-156	4	25	
87-68-3	Hexachlorobutadiene	212	162	168	76	79	55-142	4	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

RESULTS OF ANALYSIS

Page 1 of 1

Client: NYS Department of Environmental Conservation ALS Project ID: P2201602
Client Project ID: Armonk PWS / 60628211

Method Blank Summary

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Lab File ID: 04142203.D
Analyst: Simon Cao Date Analyzed: 4/14/22
Sample Type: 6.0 L Summa Canister(s) Time Analyzed: 01:27
Test Notes:

Client Sample ID	ALS Sample ID	Lab File ID	Time Analyzed
Lab Control Sample	P220414-LCS	04142204.D	02:00
Duplicate Lab Control Sample	P220414-DLCS	04142205.D	02:33
Armonk-OA-040722	P2201602-001	04142218.D	16:06
Building-1-SS1-040722	P2201602-002	04142219.D	16:40
Building-1-IA-040722	P2201602-003	04142220.D	17:13
Building-1-SS2-040722	P2201602-004	04142221.D	17:46
Building-2-SS1-040722	P2201602-005	04142222.D	18:19
Building-2-IA-040722	P2201602-006	04142223.D	18:52
Building-2-SS2-040722	P2201602-007	04142225.D	19:59
Building-3-IA-040722	P2201602-008	04142226.D	20:32
Armonk-IA-DUP-040722	P2201602-009	04142227.D	21:06

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: NYS Department of Environmental Conservation ALS Project ID: P2201602
Client Project ID: Armonk PWS / 60628211

Method Blank Summary

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Lab File ID: 04152203.D
Analyst: Simon Cao Date Analyzed: 4/15/22
Sample Type: 6.0 L Summa Canister(s) Time Analyzed: 02:05
Test Notes:

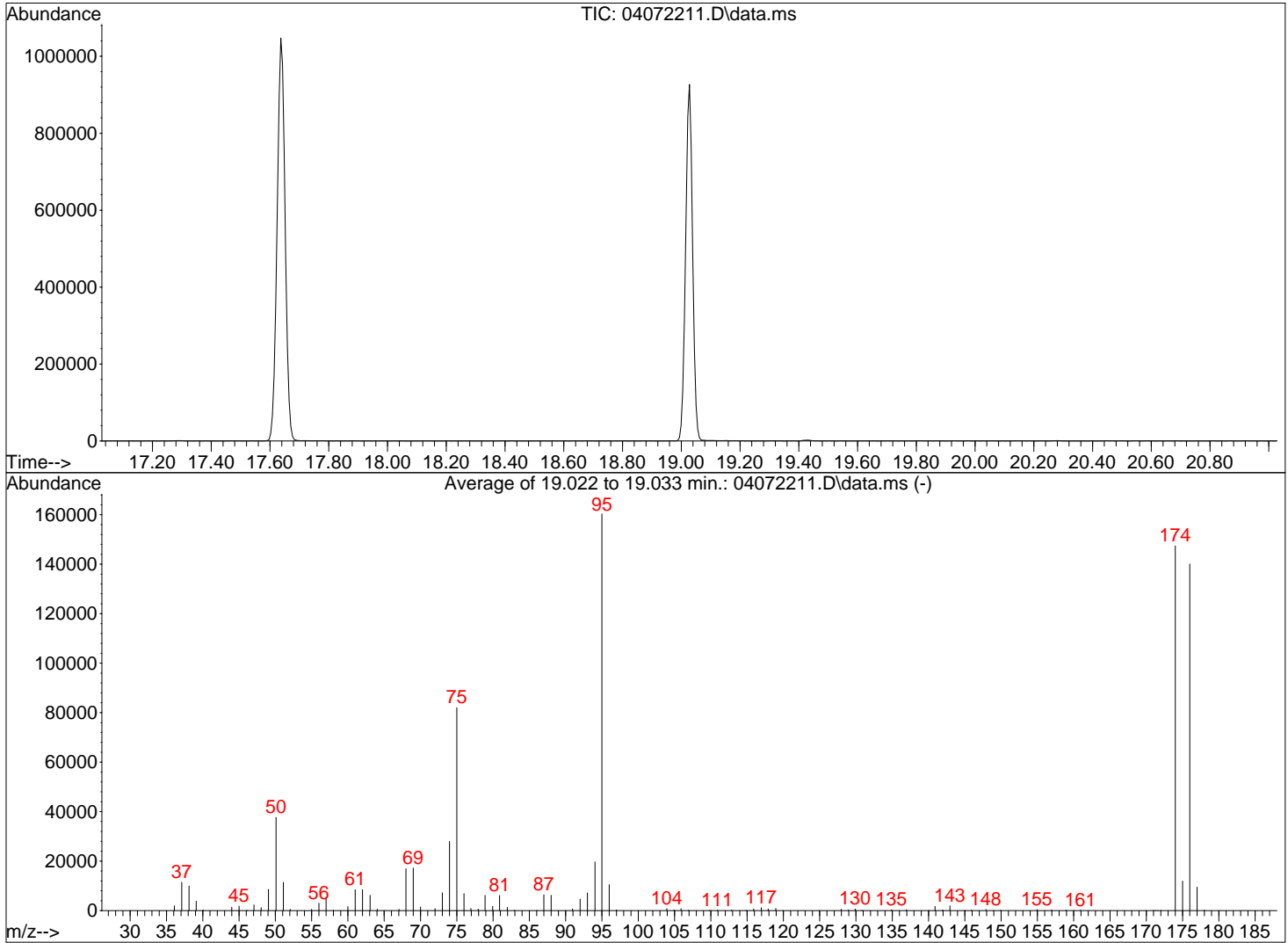
Client Sample ID	ALS Sample ID	Lab File ID	Time Analyzed
Lab Control Sample	P220415-LCS	04152204.D	02:38
Duplicate Lab Control Sample	P220415-DLCS	04152205.D	03:12
Building-2-IA-040722 (Dilution)	P2201602-006	04152207.D	07:29
Building-3-IA-040722 (Dilution)	P2201602-008	04152217.D	13:52
Armonk-IA-DUP-040722 (Dilution)	P2201602-009	04152218.D	14:26

Data Path : I:\MS09\DATA\2022 04\07\
 Data File : 04072211.D
 Acq On : 7 Apr 2022 11:37
 Operator : SC
 Sample : 12.5ng TO-15 BFB STD
 Misc : S35-03082201
 ALS Vial : 2 Sample Multiplier: 1

4/7/22

Integration File: LSCINT.P

Method : I:\MS09\Methods\R9040722.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Apr 07 15:24:56 2022



AutoFind: Scans 2684, 2685, 2686; Background Corrected with Scan 2676

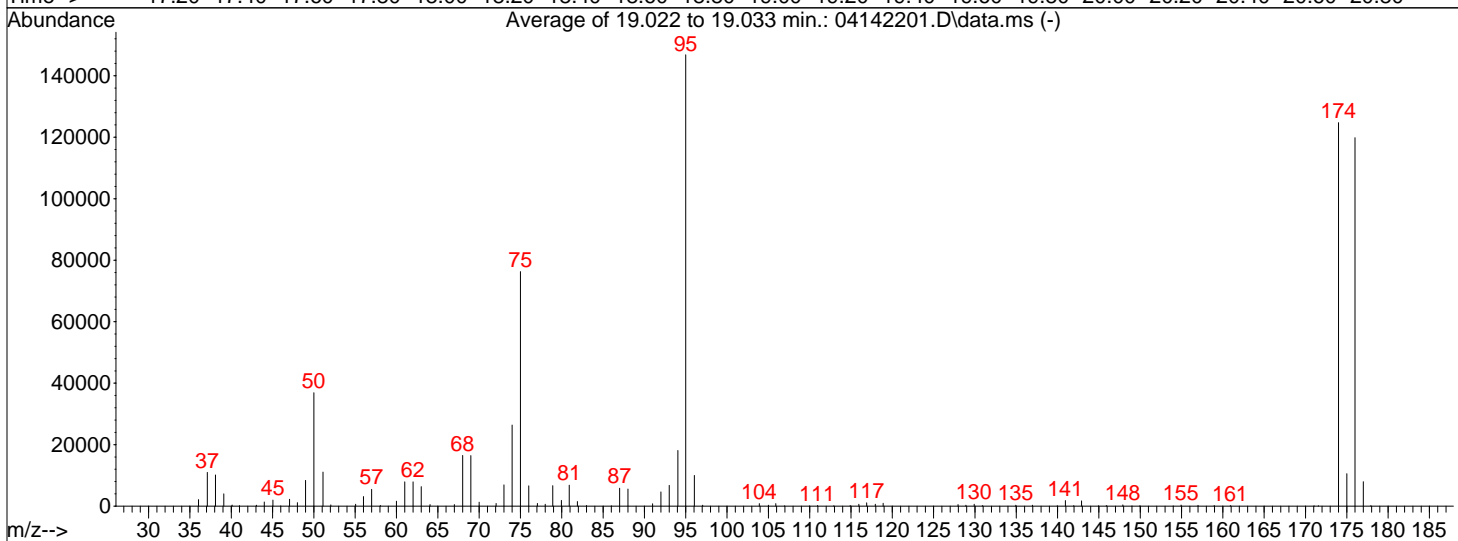
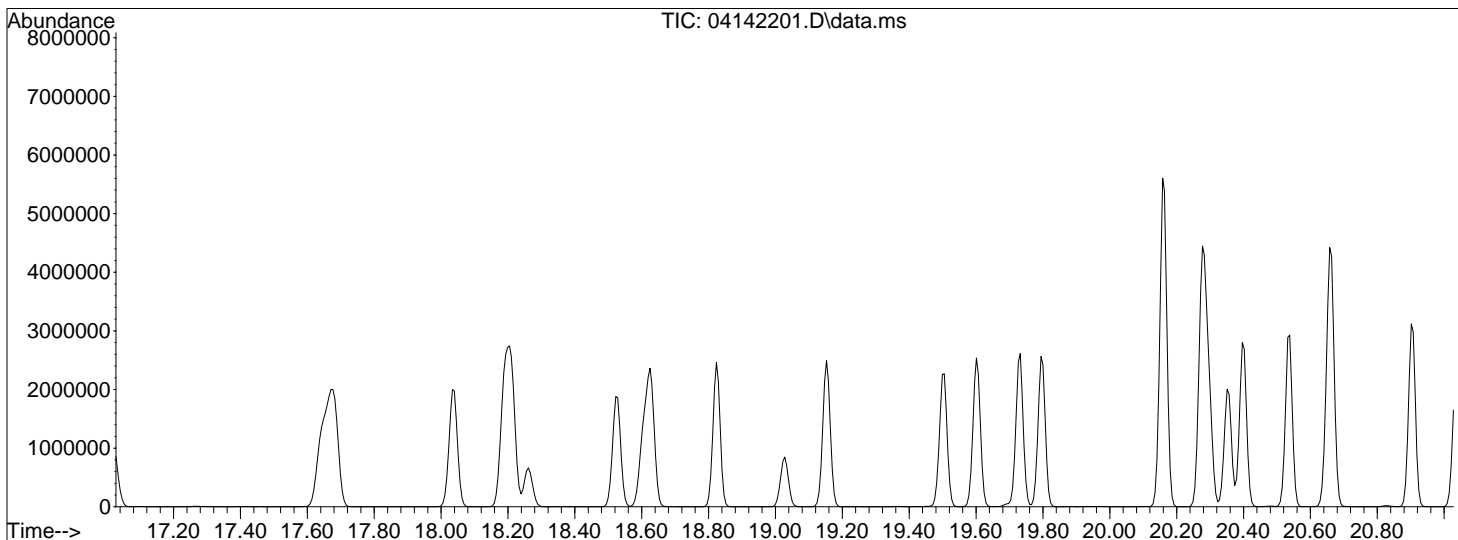
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.5	37707	PASS
75	95	30	66	51.1	81976	PASS
95	95	100	100	100.0	160299	PASS
96	95	5	9	6.5	10495	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	91.9	147392	PASS
175	174	4	9	8.1	11942	PASS
176	174	93	101	95.0	140048	PASS
177	176	5	9	6.8	9498	PASS

Data Path : I:\MS09\DATA\2022 04\14\
 Data File : 04142201.D
 Acq On : 14 Apr 2022 00:21
 Operator : SC
 Sample : CCV R9041422 25ng
 Misc : S35-04132201/S35-04052201 (5/5)
 ALS Vial : 2 Sample Multiplier: 1

4/14/22

Integration File: LSCINT.P

Method : I:\MS09\Methods\R9040722.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Apr 07 16:31:14 2022



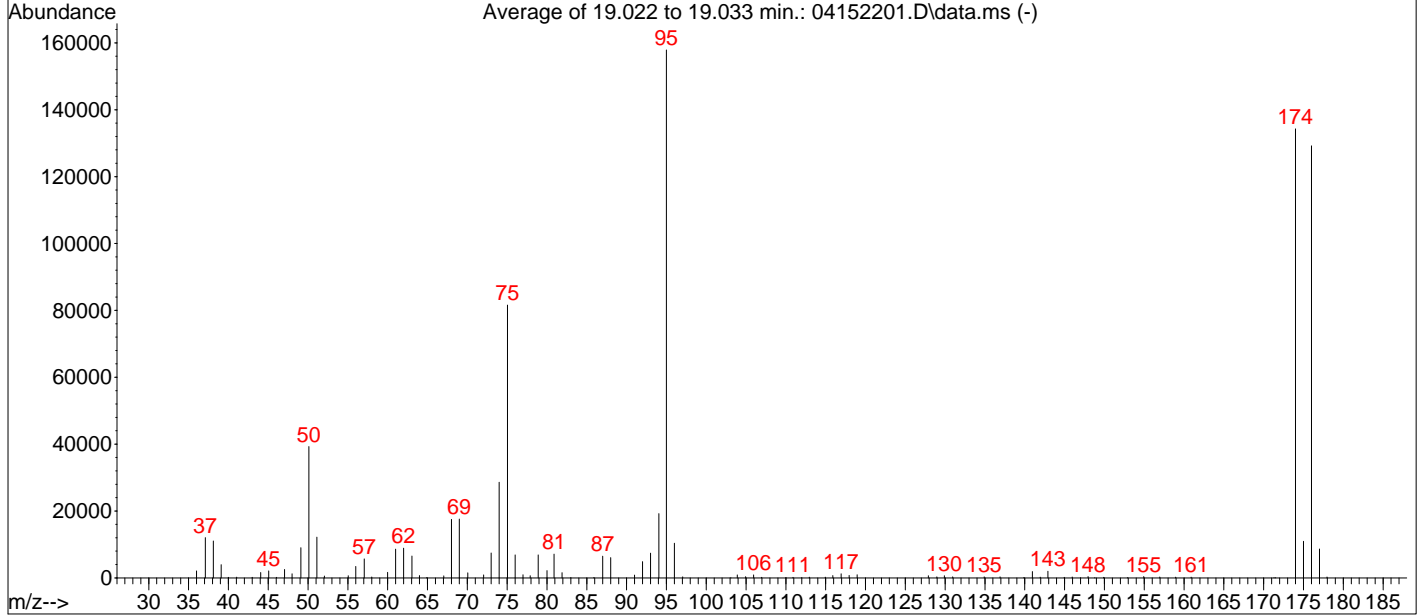
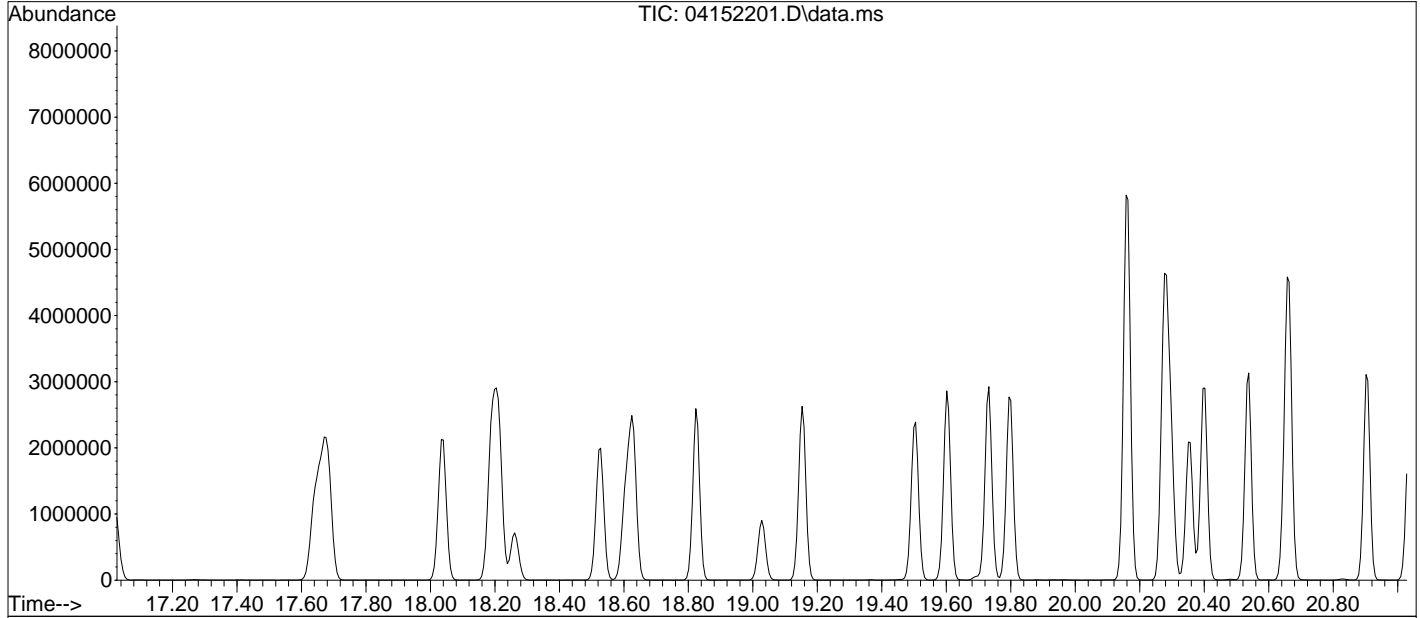
AutoFind: Scans 2684, 2685, 2686; Background Corrected with Scan 2677

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	25.1	36896	PASS
75	95	30	66	52.0	76299	PASS
95	95	100	100	100.0	146816	PASS
96	95	5	9	6.8	9993	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	85.0	124765	PASS
175	174	4	9	8.5	10581	PASS
176	174	93	101	96.1	119883	PASS
177	176	5	9	6.6	7957	PASS

Data Path : I:\MS09\DATA\2022 04\15\
 Data File : 04152201.D
 Acq On : 15 Apr 2022 00:59
 Operator : SC
 Sample : CCV R9041522 25ng
 Misc : S35-04132201/S35-04052201 (5/5)
 ALS Vial : 2 Sample Multiplier: 1

Integration File: LSCINT.P

Method : I:\MS09\Methods\R9040722.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Apr 07 16:31:14 2022



AutoFind: Scans 2684, 2685, 2686; Background Corrected with Scan 2677

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	24.9	39275	PASS
75	95	30	66	51.7	81613	PASS
95	95	100	100	100.0	157867	PASS
96	95	5	9	6.6	10358	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	85.1	134291	PASS
175	174	4	9	8.2	10949	PASS
176	174	93	101	96.2	129219	PASS
177	176	5	9	6.7	8664	PASS

CG 4/15/22

USA 4/15/22

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: NYS Department of Environmental Conservation ALS Project ID: P2201602
Client Project ID: Armonk PWS / 60628211

Internal Standard Area and RT Summary

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Lab File ID: 04142201.D
 Analyst: Simon Cao Date Analyzed: 4/14/22
 Sample Type: 6.0 L Summa Canister(s) Time Analyzed: 00:21
 Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
24 Hour Standard	140516	11.19	610377	13.32	166540	17.64
Upper Limit	196722	11.52	854528	13.65	233156	17.97
Lower Limit	84310	10.86	366226	12.99	99924	17.31

Client Sample ID		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
01	Method Blank	119674	11.17	533292	13.30	138356	17.64
02	Lab Control Sample	133884	11.18	581139	13.32	158669	17.64
03	Duplicate Lab Control Sample	140780	11.19	601587	13.32	161704	17.64
04	Armonk-OA-040722	164445	11.16	714159	13.31	173503	17.64
05	Building-1-SS1-040722	151761	11.17	667294	13.31	172528	17.64
06	Building-1-IA-040722	148688	11.17	661464	13.31	170007	17.64
07	Building-1-SS2-040722	146351	11.17	655278	13.31	168122	17.64
08	Building-2-SS1-040722	143007	11.17	633662	13.31	165284	17.64
09	Building-2-IA-040722	146438	11.17	641196	13.31	167931	17.64
10	Building-2-SS2-040722	141728	11.17	627452	13.31	161961	17.64
11	Building-3-IA-040722	140562	11.17	623491	13.31	162624	17.64
12	Armonk-IA-DUP-040722	141971	11.17	627259	13.31	166284	17.64
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 1

Client: NYS Department of Environmental Conservation ALS Project ID: P2201602
 Client Project ID: Armonk PWS / 60628211

Internal Standard Area and RT Summary

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Lab File ID: 04152201.D
 Analyst: Simon Cao Date Analyzed: 4/15/22
 Sample Type: 6.0 L Summa Canister(s) Time Analyzed: 00:59
 Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
24 Hour Standard	150178	11.19	654117	13.32	177665	17.64
Upper Limit	210249	11.52	915764	13.65	248731	17.97
Lower Limit	90107	10.86	392470	12.99	106599	17.31

Client Sample ID	IS1 (BCM) AREA #	IS1 (BCM) RT #	IS2 (DFB) AREA #	IS2 (DFB) RT #	IS3 (CBZ) AREA #	IS3 (CBZ) RT #
01 Method Blank	128916	11.17	580665	13.30	151148	17.64
02 Lab Control Sample	145061	11.19	626906	13.32	169059	17.64
03 Duplicate Lab Control Sample	146797	11.18	636065	13.32	170815	17.64
04 Building-2-IA-040722 (Dilution)	133809	11.16	589859	13.30	147784	17.64
05 Building-3-IA-040722 (Dilution)	120680	11.17	536974	13.31	145036	17.64
06 Armonk-IA-DUP-040722 (Dilution)	119877	11.17	533294	13.31	145768	17.64
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.

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 amended 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	MAX			MW	FINAL	
	MS3	MS08	MS09	MS13	MS16					MDL _R	MDL _R
	MDL _R	MDL _R	MDL _R	MDL _R	MDL _R					µg/m ³	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 3

Client: NYS Department of Environmental Conservation

Client Sample ID: Armonk-OA-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC01909

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14/22

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.75 Final Pressure (psig): 3.94

Canister Dilution Factor: 1.21

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	0.78	0.63	0.45	0.37	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	0.64	0.48	0.13	
74-87-3	Chloromethane	0.48	0.25	0.23	0.12	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.65	ND	0.094	
75-01-4	Vinyl Chloride	ND	0.13	ND	0.052	
106-99-0	1,3-Butadiene	ND	0.25	ND	0.11	
74-83-9	Bromomethane	ND	0.25	ND	0.065	
75-00-3	Chloroethane	ND	0.25	ND	0.096	
64-17-5	Ethanol	ND	6.1	ND	3.2	
75-05-8	Acetonitrile	ND	1.2	ND	0.72	
107-02-8	Acrolein	ND	1.2	ND	0.53	
67-64-1	Acetone	ND	6.3	ND	2.6	
75-69-4	Trichlorofluoromethane (CFC 11)	1.1	0.63	0.20	0.11	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.5	1.2	0.60	0.49	
107-13-1	Acrylonitrile	ND	1.2	ND	0.56	
75-35-4	1,1-Dichloroethene	ND	0.13	ND	0.034	
75-09-2	Methylene Chloride	0.71	0.63	0.20	0.18	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.64	ND	0.20	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.65	ND	0.085	
75-15-0	Carbon Disulfide	ND	1.3	ND	0.43	
156-60-5	trans-1,2-Dichloroethene	ND	0.13	ND	0.034	
75-34-3	1,1-Dichloroethane	ND	0.13	ND	0.033	
1634-04-4	Methyl tert-Butyl Ether	ND	0.64	ND	0.18	
108-05-4	Vinyl Acetate	ND	6.1	ND	1.7	
78-93-3	2-Butanone (MEK)	ND	1.2	ND	0.41	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3

Client: NYS Department of Environmental Conservation

Client Sample ID: Armonk-OA-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC01909

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14/22

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.75 Final Pressure (psig): 3.94

Canister Dilution Factor: 1.21

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.13	ND	0.034	
141-78-6	Ethyl Acetate	10	2.5	2.9	0.71	
110-54-3	n-Hexane	ND	0.64	ND	0.18	
67-66-3	Chloroform	ND	0.13	ND	0.027	
109-99-9	Tetrahydrofuran (THF)	ND	1.2	ND	0.41	
107-06-2	1,2-Dichloroethane	ND	0.13	ND	0.033	
71-55-6	1,1,1-Trichloroethane	ND	0.13	ND	0.024	
71-43-2	Benzene	0.61	0.13	0.19	0.042	
56-23-5	Carbon Tetrachloride	0.42	0.13	0.067	0.021	
110-82-7	Cyclohexane	ND	1.3	ND	0.39	
78-87-5	1,2-Dichloropropane	ND	0.13	ND	0.029	
75-27-4	Bromodichloromethane	ND	0.13	ND	0.020	
79-01-6	Trichloroethene	ND	0.13	ND	0.025	
123-91-1	1,4-Dioxane	ND	0.63	ND	0.17	
80-62-6	Methyl Methacrylate	ND	1.3	ND	0.33	
142-82-5	n-Heptane	ND	0.64	ND	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.64	ND	0.14	
108-10-1	4-Methyl-2-pentanone	ND	1.3	ND	0.32	
10061-02-6	trans-1,3-Dichloropropene	ND	0.62	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.13	ND	0.024	
108-88-3	Toluene	2.8	0.63	0.74	0.17	
591-78-6	2-Hexanone	ND	1.3	ND	0.33	
124-48-1	Dibromochloromethane	ND	0.13	ND	0.016	
106-93-4	1,2-Dibromoethane	ND	0.13	ND	0.017	
123-86-4	n-Butyl Acetate	ND	1.3	ND	0.28	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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

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Client: NYS Department of Environmental Conservation

Client Sample ID: Armonk-OA-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC01909

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14/22

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.75 Final Pressure (psig): 3.94

Canister Dilution Factor: 1.21

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.64	ND	0.14	
127-18-4	Tetrachloroethene	ND	0.13	ND	0.020	
108-90-7	Chlorobenzene	ND	0.63	ND	0.14	
100-41-4	Ethylbenzene	ND	0.63	ND	0.14	
179601-23-1	m,p-Xylenes	1.4	1.3	0.32	0.31	
75-25-2	Bromoform	ND	0.63	ND	0.061	
100-42-5	Styrene	ND	0.63	ND	0.15	
95-47-6	o-Xylene	ND	0.63	ND	0.14	
111-84-2	n-Nonane	ND	0.63	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	ND	0.019	
98-82-8	Cumene	ND	0.63	ND	0.13	
80-56-8	alpha-Pinene	ND	0.65	ND	0.12	
103-65-1	n-Propylbenzene	ND	0.64	ND	0.13	
622-96-8	4-Ethyltoluene	ND	0.64	ND	0.13	
108-67-8	1,3,5-Trimethylbenzene	ND	0.63	ND	0.13	
95-63-6	1,2,4-Trimethylbenzene	ND	0.63	ND	0.13	
100-44-7	Benzyl Chloride	ND	1.3	ND	0.26	
541-73-1	1,3-Dichlorobenzene	ND	0.63	ND	0.10	
106-46-7	1,4-Dichlorobenzene	ND	0.63	ND	0.10	
95-50-1	1,2-Dichlorobenzene	ND	0.64	ND	0.11	
5989-27-5	d-Limonene	ND	0.63	ND	0.11	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.2	ND	0.13	
120-82-1	1,2,4-Trichlorobenzene	ND	1.2	ND	0.16	
91-20-3	Naphthalene	ND	0.63	ND	0.12	
87-68-3	Hexachlorobutadiene	ND	0.63	ND	0.059	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Data File : I:\MS09\DATA\2022 04\14\04142218.D
 Acq On : 14 Apr 2022 16:06
 Sample : P2201602-001 (1000mL)
 Misc : S35-04132201

Vial: 3
 Operator: SC
 Inst : MS09

Quant Time: Apr 14 16:35:19 2022

Quant Method : I:\MS09\Methods\R9040722.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

4/14/22

QLast Update : Thu Apr 07 16:31:14 2022

Response via : Initial Calibration

DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	11.16	130	164445	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	13.31	114	714159	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.64	54	173503	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.03	65	308949	12.282	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery	=	98.24%	
57) Toluene-d8 (SS2)	15.77	98	823658	13.028	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	104.24%	
73) Bromofluorobenzene (SS3)	19.03	174	261722	11.754	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	94.00%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.08	42	14667	0.646	ng	# 38
3) Dichlorodifluoromethan...	4.22	85	60487	1.947	ng	99
4) Chloromethane	4.51	50	10257	0.398	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	4.77	135	1341	0.096	ng	81
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.20	54	659	N.D.		
8) Bromomethane	5.64	94	405	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.30	45	71993	4.349	ng	100
11) Acetonitrile	6.59	41	10239	0.247	ng	76
12) Acrolein	6.79	56	2141	0.211	ng	96
13) Acetone	7.00	58	45235	3.471	ng	# 66
14) Trichlorofluoromethane	7.23	101	26814	0.926	ng	99
15) 2-Propanol (Isopropanol)	7.49	45	62391	1.211	ng	95
16) Acrylonitrile	7.76	53	52	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	8.44	59	536	N.D.		
19) Methylene Chloride	8.43	84	7951	0.586	ng	99
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	8.86	151	5084	0.411	ng	99
22) Carbon Disulfide	8.70	76	6062	0.133	ng	90
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)	10.49	72	6773	0.744	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	11.30	61	55185	8.488	ng	98
31) n-Hexane	11.29	57	10615	0.362	ng	97
32) Chloroform	11.34	83	1548	0.061	ng	98
34) Tetrahydrofuran (THF)	11.78	72	1911	0.219	ng	# 80
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	12.15	62	1081	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	13.30	61	24172	No Calib		
40) 1-Butanol	12.91	56	6484	No Calib	#	
41) Benzene	12.91	78	27616	0.500	ng	99
42) Carbon Tetrachloride	13.07	117	7402	0.348	ng	99
43) Cyclohexane	13.21	84	2881	0.136	ng	96
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	13.77	63	178	N.D.		
46) Bromodichloromethane	13.89	83	116	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	14.02	88	273	N.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:\MS09\DATA\2022 04\14\04142218.D
 Acq On : 14 Apr 2022 16:06
 Sample : P2201602-001 (1000mL)
 Misc : S35-04132201

Vial: 3
 Operator: SC
 Inst : MS09

Quant Time: Apr 14 16:35:19 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

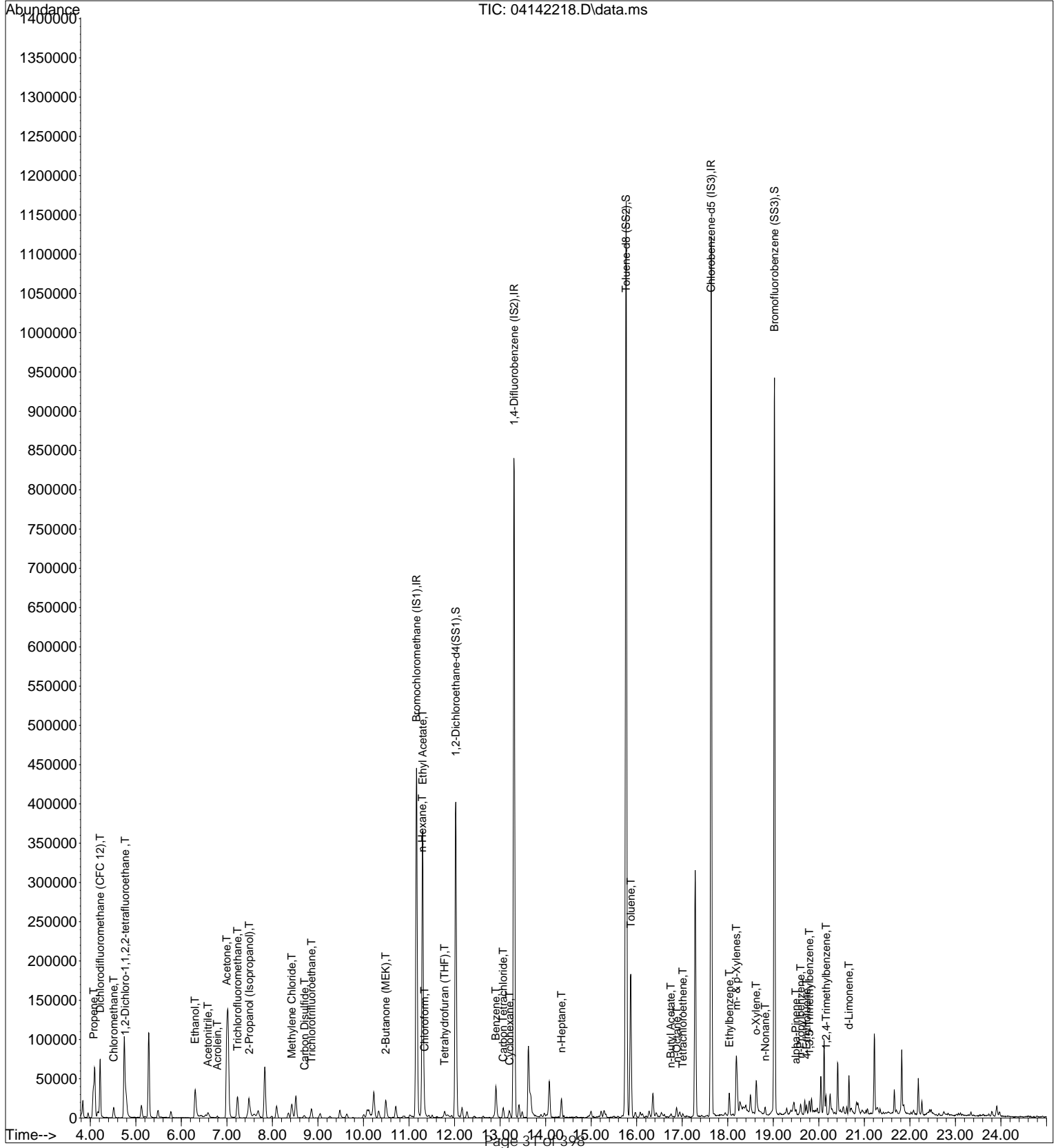
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.35	71	4798	0.332	ng	98
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	14.93	58	418	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.87	91	134421	2.312	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	16.75	43	4216	0.086	ng	93
63) n-Octane	16.88	57	3125	0.215	ng	86
64) Tetrachloroethene	17.01	166	1460	0.088	ng	84
65) Chlorobenzene	17.68	112	296	N.D.		
66) Ethylbenzene	18.03	91	21387	0.323	ng	98
67) m- & p-Xylenes	18.19	91	60674	1.141	ng	100
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.53	104	1439	N.D.		
70) o-Xylene	18.62	91	21138	0.394	ng	100
71) n-Nonane	18.82	43	4486	0.109	ng	# 79
72) 1,1,2,2-Tetrachloroethane	18.64	83	877	N.D.		
74) Cumene	19.15	105	1210	N.D.		
75) alpha-Pinene	19.50	93	2427	0.076	ng	# 1
76) n-Propylbenzene	19.60	91	4602	0.057	ng	# 74
77) 3-Ethyltoluene	19.73	105	4542	No Calib		
78) 4-Ethyltoluene	19.73	105	4542	0.069	ng	97
79) 1,3,5-Trimethylbenzene	19.79	105	3432	0.062	ng	99
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.66	105	602	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.16	105	12261	0.214	ng	90
83) n-Decane	20.41	58	1473	No Calib	#	
84) Benzyl Chloride	20.28	91	274	N.D.		
85) 1,3-Dichlorobenzene	20.36	146	204	N.D.		
86) 1,4-Dichlorobenzene	20.36	146	204	N.D.		
87) sec-Butylbenzene	20.40	105	229	N.D.		
88) 4-Isopropyltoluene (p-...	20.54	119	2646	N.D.		
89) 1,2,3-Trimethylbenzene	20.40	105	229	No Calib	#	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	20.66	68	10363	0.486	ng	98
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	21.22	58	1183	No Calib		
94) 1,2,4-Trichlorobenzene	22.17	180	119	N.D.		
95) Naphthalene	22.28	128	1391	N.D.		
96) n-Dodecane	22.27	58	210	No Calib	#	
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	18.64	55	2577	No Calib	#	
99) tert-Butylbenzene	20.16	119	1430	N.D.		
100) n-Butylbenzene	20.89	91	1465	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\2022 04\14\04142218.D
 Acq On : 14 Apr 2022 16:06
 Sample : P2201602-001 (1000mL)
 Misc : S35-04132201

Vial: 3
 Operator: SC
 Inst : MS09

Quant Time: Apr 14 16:35:19 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
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Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Thu Apr 07 16:31:14 2022

Response via : Initial Calibration

DataAcq Meth:TO15.M

 4/14/22

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.16	130	164445	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	13.31	114	714159	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.64	54	173503	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.03	65	308949	12.282	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery =	98.24%		
57) Toluene-d8 (SS2)	15.77	98	823658	13.028	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery =	104.24%		
73) Bromofluorobenzene (SS3)	19.03	174	261722	11.754	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery =	94.00%		

Target Compounds

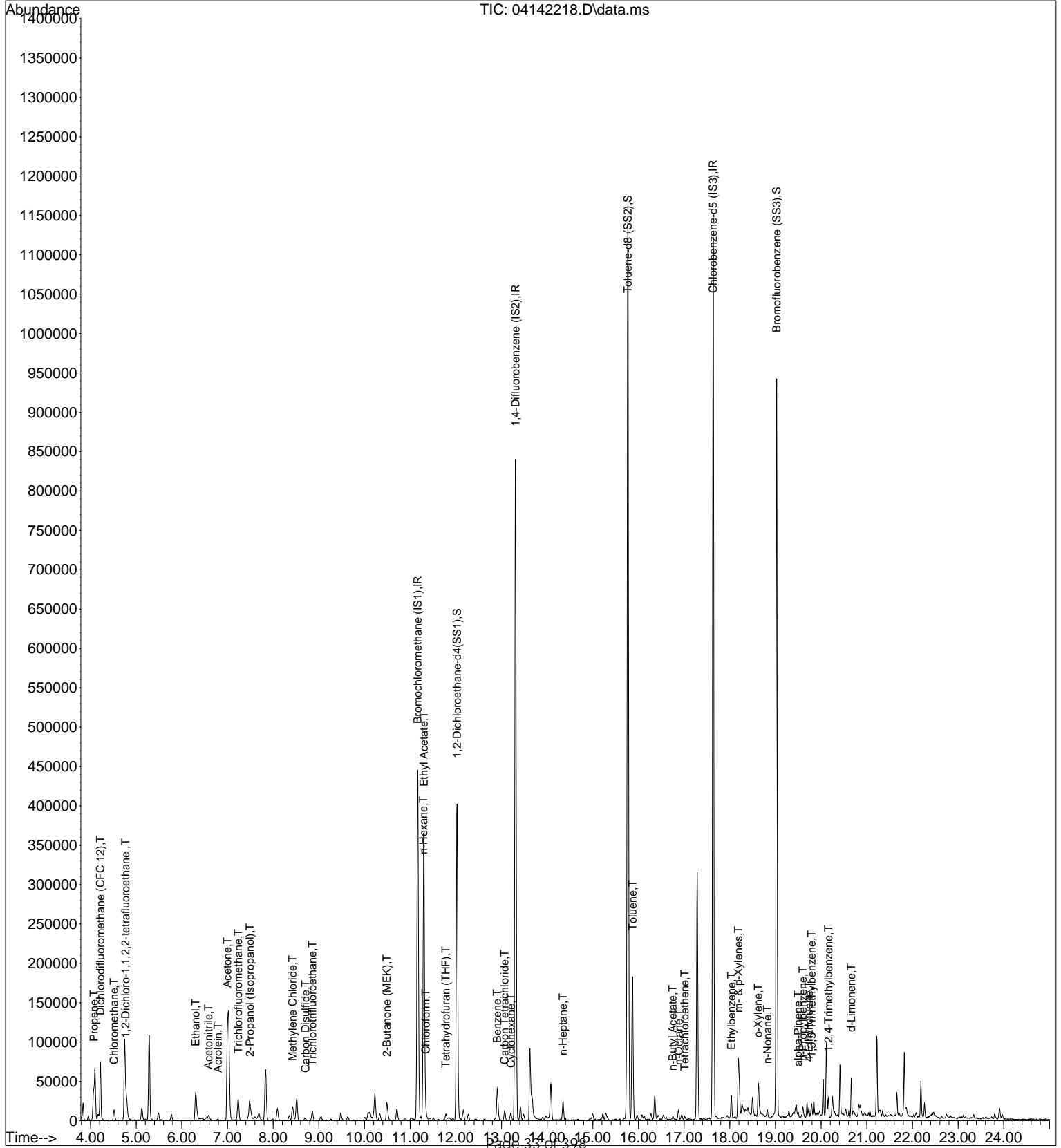
						Qvalue
2) Propene	4.08	42	14667	0.646	ng	# 38
3) Dichlorodifluoromethan...	4.22	85	60487	1.947	ng	99
4) Chloromethane	4.51	50	10257	0.398	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	4.77	135	1341	0.096	ng	81
10) Ethanol	6.30	45	71993	4.349	ng	100
11) Acetonitrile	6.59	41	10239	0.247	ng	76
12) Acrolein	6.79	56	2141	0.211	ng	96
13) Acetone	7.00	58	45235	3.471	ng	# 66
14) Trichlorofluoromethane	7.23	101	26814	0.926	ng	99
15) 2-Propanol (Isopropanol)	7.49	45	62391	1.211	ng	95
19) Methylene Chloride	8.43	84	7951	0.586	ng	99
21) Trichlorotrifluoroethane	8.86	151	5084	0.411	ng	99
22) Carbon Disulfide	8.70	76	6062	0.133	ng	90
27) 2-Butanone (MEK)	10.49	72	6773	0.744	ng	# 92
30) Ethyl Acetate	11.30	61	55185	8.488	ng	98
31) n-Hexane	11.29	57	10615	0.362	ng	97
32) Chloroform	11.34	83	1548	0.061	ng	98
34) Tetrahydrofuran (THF)	11.78	72	1911	0.219	ng	# 80
41) Benzene	12.91	78	27616	0.500	ng	99
42) Carbon Tetrachloride	13.07	117	7402	0.348	ng	99
43) Cyclohexane	13.21	84	2881	0.136	ng	96
51) n-Heptane	14.35	71	4798	0.332	ng	98
58) Toluene	15.87	91	134421	2.312	ng	99
62) n-Butyl Acetate	16.75	43	4216	0.086	ng	93
63) n-Octane	16.88	57	3125	0.215	ng	86
64) Tetrachloroethene	17.01	166	1460	0.088	ng	84
66) Ethylbenzene	18.03	91	21387	0.323	ng	98
67) m- & p-Xylenes	18.19	91	60674	1.141	ng	100
70) o-Xylene	18.62	91	21138	0.394	ng	100
71) n-Nonane	18.82	43	4486	0.109	ng	# 79
75) alpha-Pinene	19.50	93	2427	0.076	ng	# 1
76) n-Propylbenzene	19.60	91	4602	0.057	ng	# 74
78) 4-Ethyltoluene	19.73	105	4542	0.069	ng	97
79) 1,3,5-Trimethylbenzene	19.79	105	3432	0.062	ng	99
82) 1,2,4-Trimethylbenzene	20.16	105	12261	0.214	ng	90
91) d-Limonene	20.66	68	10363	0.486	ng	98

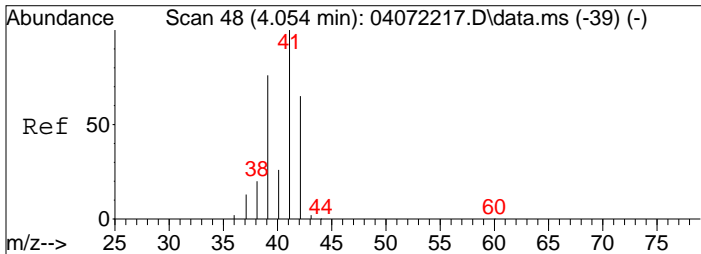
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS09\DATA\2022 04\14\04142218.D
 Acq On : 14 Apr 2022 16:06
 Sample : P2201602-001 (1000mL)
 Misc : S35-04132201

Vial: 3
 Operator: SC
 Inst : MS09

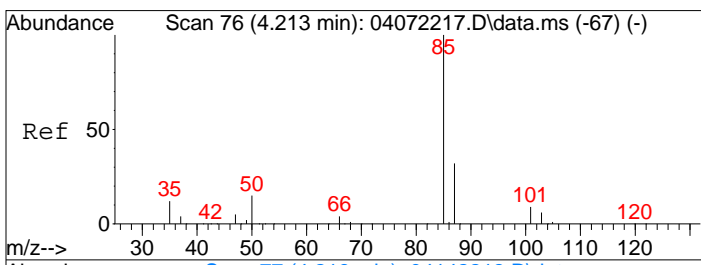
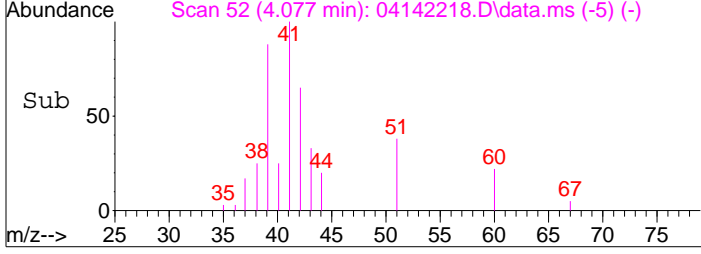
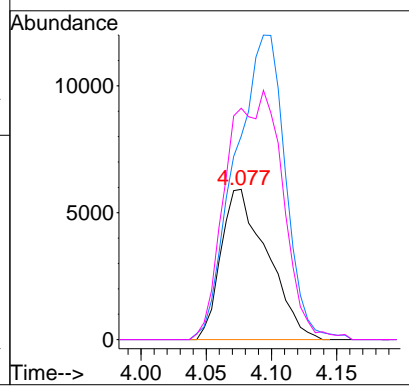
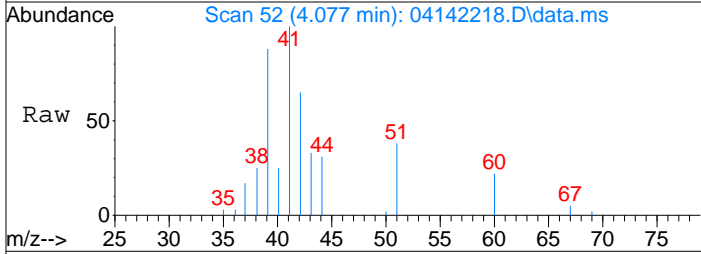
Quant Time: Apr 14 16:35:19 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M





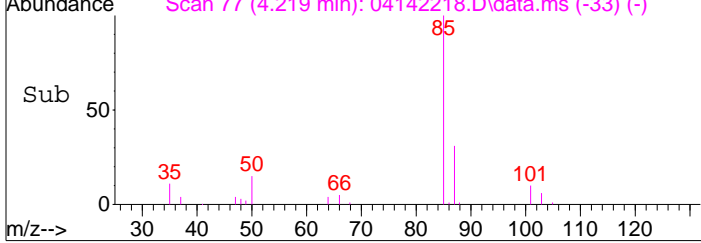
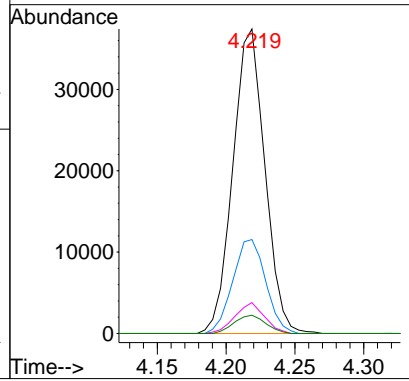
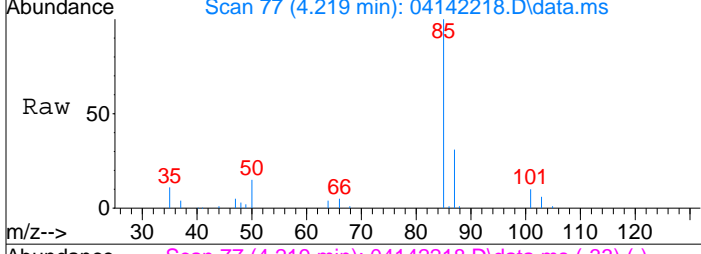
#2
 Propene
 Concen: 0.65 ng
 RT: 4.08 min Scan# 52
 Delta R.T. 0.017 min
 Lab File: 04142218.D
 Acq: 14 Apr 2022 16:06

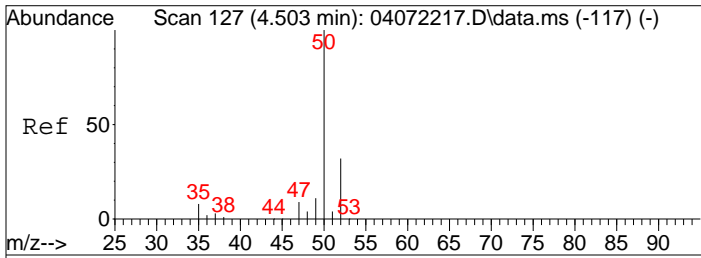
Tgt Ion:	Resp:	Lower	Upper
42	14667		
42	100		
39	219.3	96.7	136.7#
41	201.1	132.4	172.4#



#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.95 ng
 RT: 4.22 min Scan# 77
 Delta R.T. -0.000 min
 Lab File: 04142218.D
 Acq: 14 Apr 2022 16:06

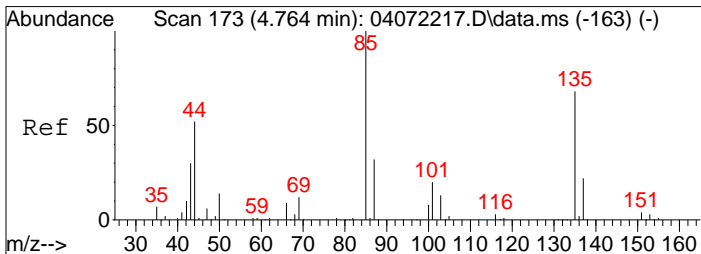
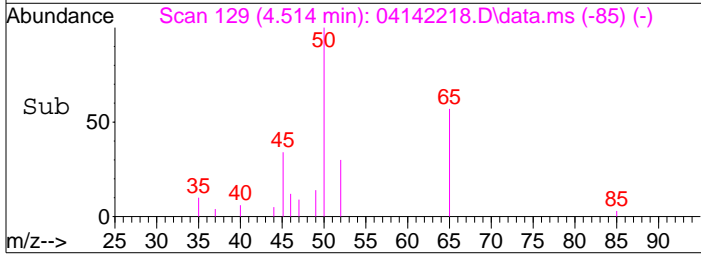
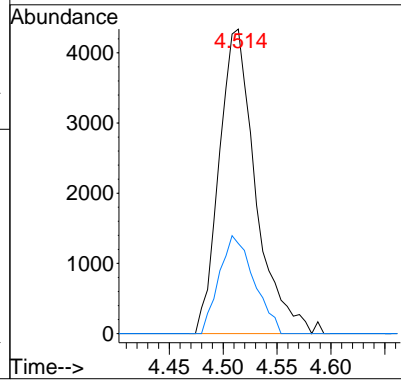
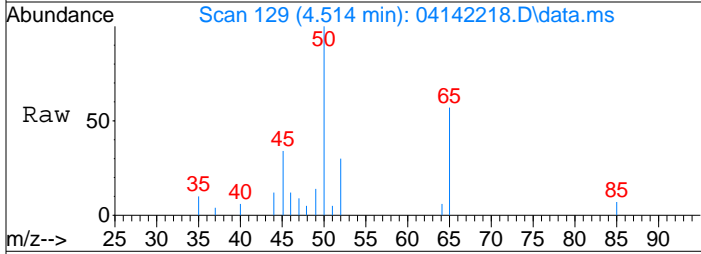
Tgt Ion:	Resp:	Lower	Upper
85	60487		
85	100		
87	31.8	12.2	52.2
101	9.3	0.0	29.3
103	5.9	0.0	26.0





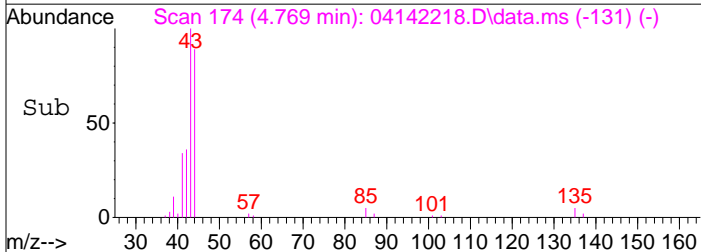
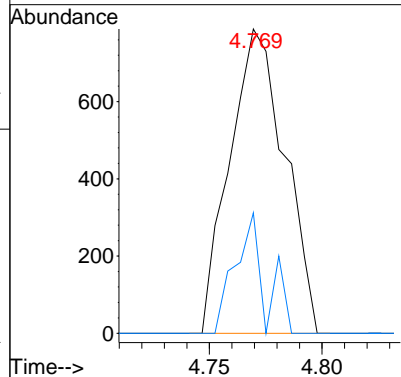
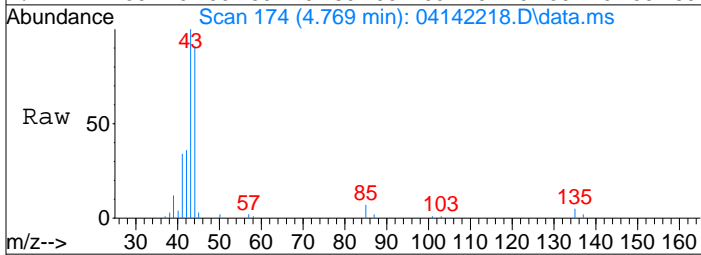
#4
 Chloromethane
 Concen: 0.40 ng
 RT: 4.51 min Scan# 129
 Delta R.T. -0.000 min
 Lab File: 04142218.D
 Acq: 14 Apr 2022 16:06

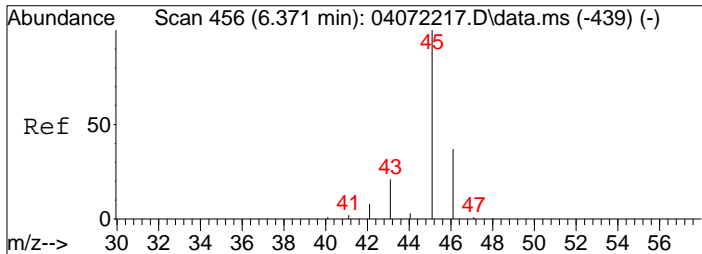
Tgt Ion	Resp	Lower	Upper
50	10257		
52	30.6	11.8	51.8



#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.10 ng
 RT: 4.77 min Scan# 174
 Delta R.T. -0.006 min
 Lab File: 04142218.D
 Acq: 14 Apr 2022 16:06

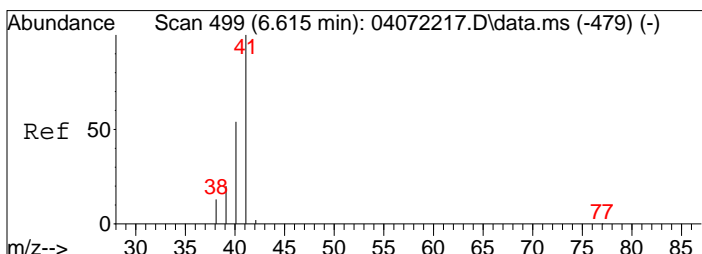
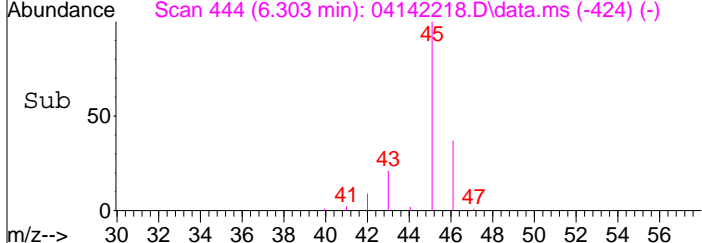
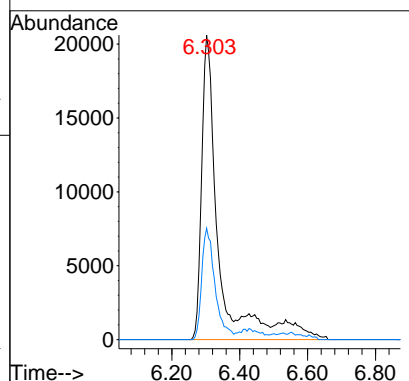
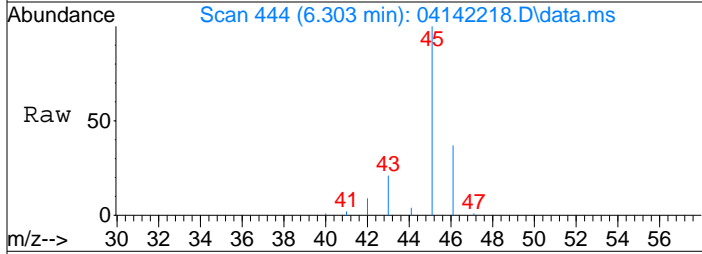
Tgt Ion	Resp	Lower	Upper
135	1341		
137	21.8	12.6	52.6





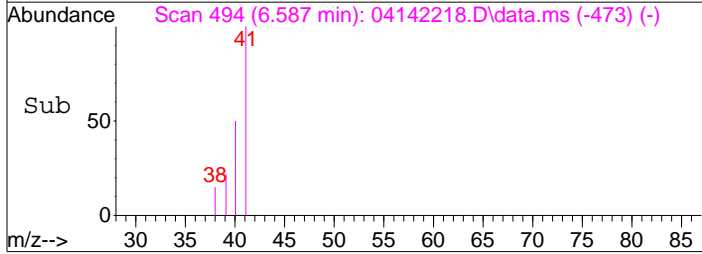
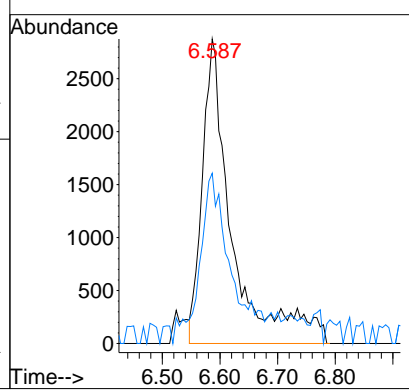
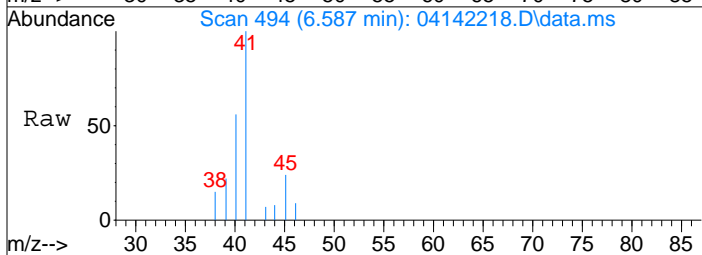
#10
 Ethanol
 Concen: 4.35 ng
 RT: 6.30 min Scan# 444
 Delta R.T. -0.136 min
 Lab File: 04142218.D
 Acq: 14 Apr 2022 16:06

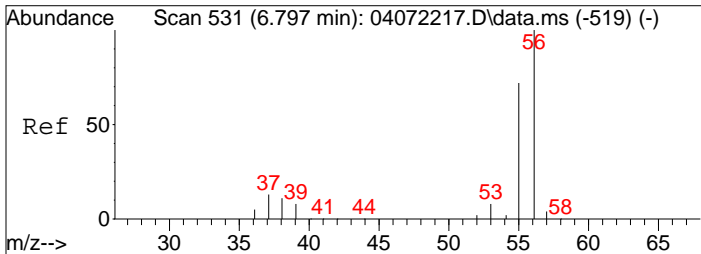
Tgt Ion	Resp	Lower	Upper
45	100		
46	36.9	16.7	56.7



#11
 Acetonitrile
 Concen: 0.25 ng
 RT: 6.59 min Scan# 494
 Delta R.T. -0.080 min
 Lab File: 04142218.D
 Acq: 14 Apr 2022 16:06

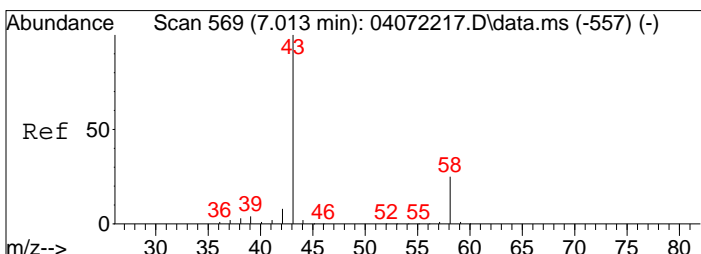
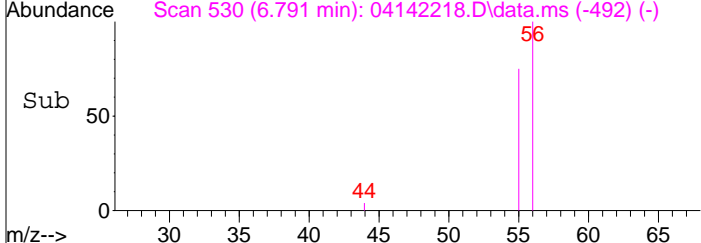
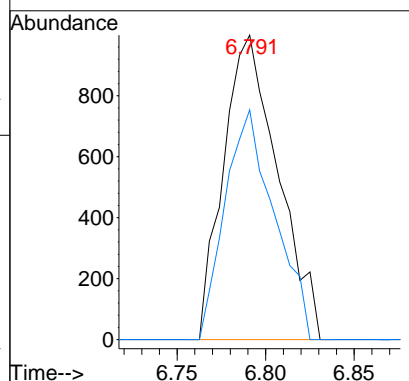
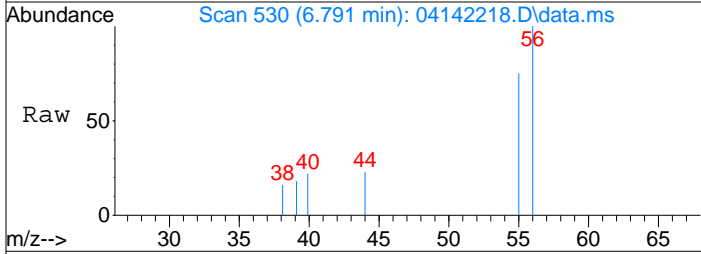
Tgt Ion	Resp	Lower	Upper
41	100		
40	71.9	34.3	74.3





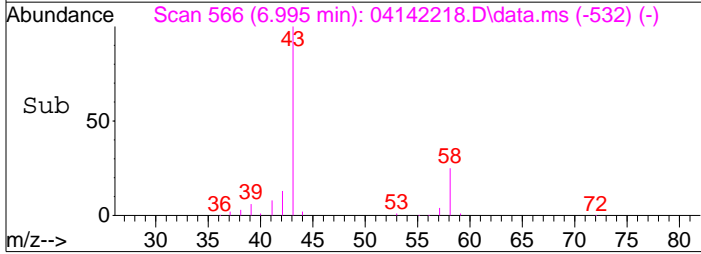
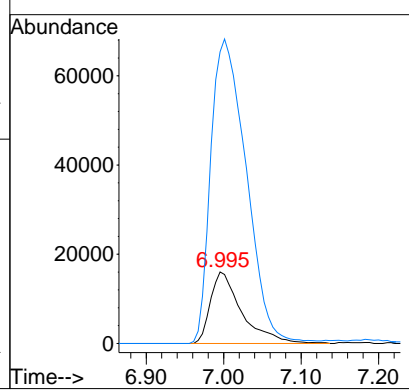
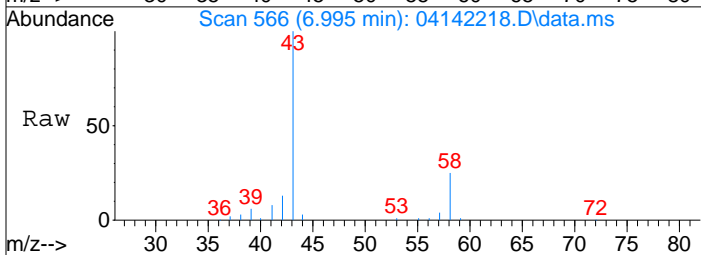
#12
 Acrolein
 Concen: 0.21 ng
 RT: 6.79 min Scan# 530
 Delta R.T. -0.034 min
 Lab File: 04142218.D
 Acq: 14 Apr 2022 16:06

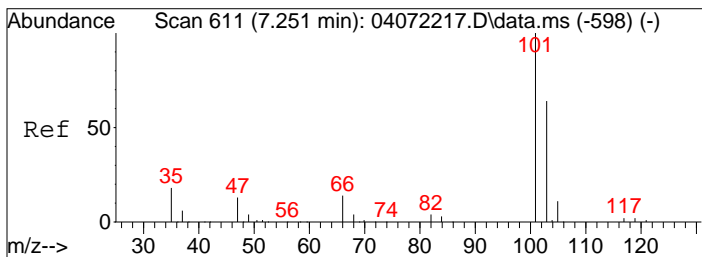
Tgt Ion	Resp	Lower	Upper
56	100		
55	68.1	51.3	91.3



#13
 Acetone
 Concen: 3.47 ng
 RT: 7.00 min Scan# 566
 Delta R.T. -0.057 min
 Lab File: 04142218.D
 Acq: 14 Apr 2022 16:06

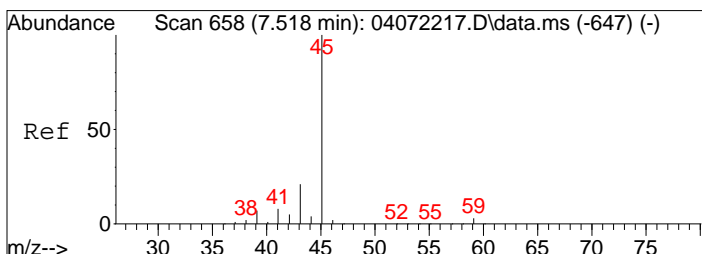
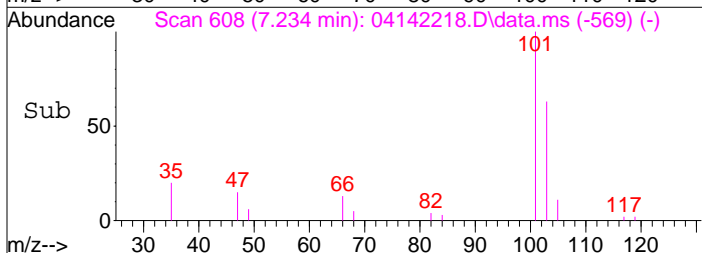
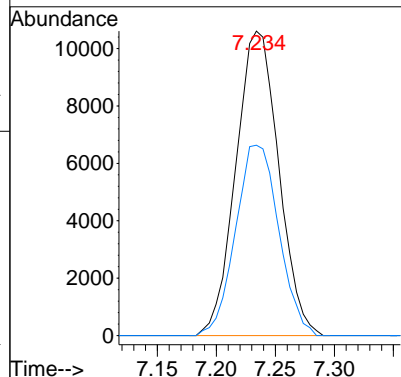
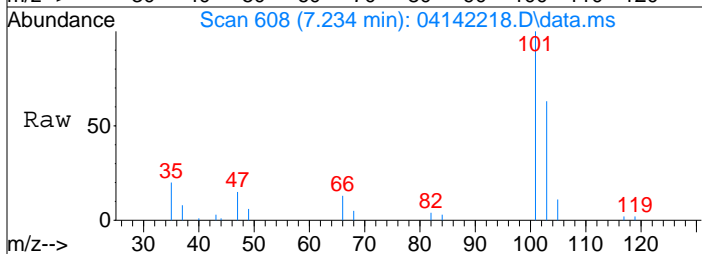
Tgt Ion	Resp	Lower	Upper
58	100		
43	480.9	370.7	430.7#





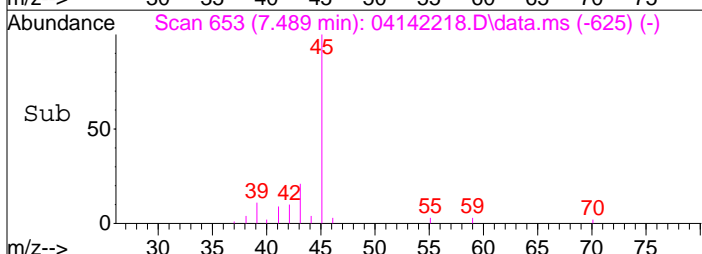
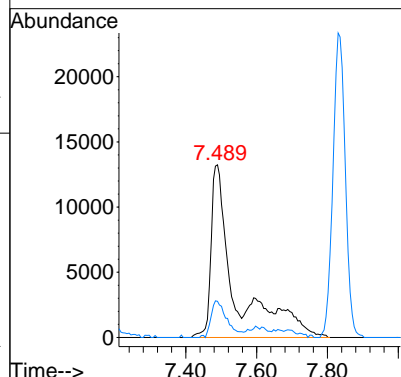
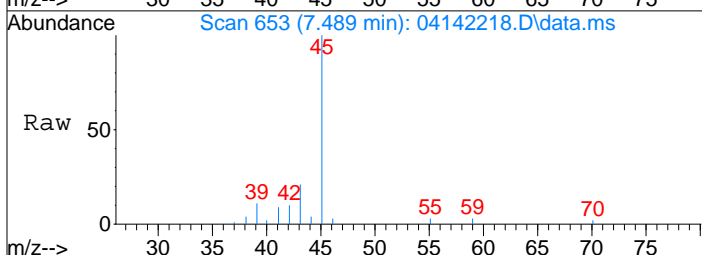
#14
 Trichlorofluoromethane
 Concen: 0.93 ng
 RT: 7.23 min Scan# 608
 Delta R.T. -0.029 min
 Lab File: 04142218.D
 Acq: 14 Apr 2022 16:06

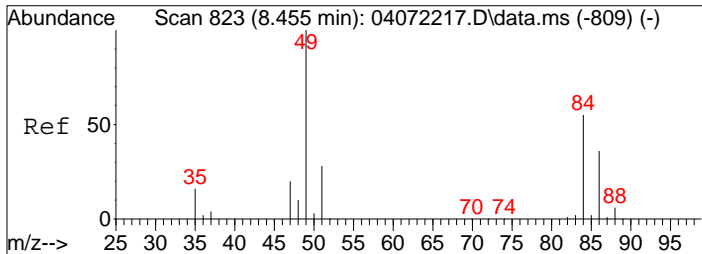
Tgt Ion	Resp	Lower	Upper
101	100		
103	63.1	43.8	83.8



#15
 2-Propanol (Isopropanol)
 Concen: 1.21 ng
 RT: 7.49 min Scan# 653
 Delta R.T. -0.091 min
 Lab File: 04142218.D
 Acq: 14 Apr 2022 16:06

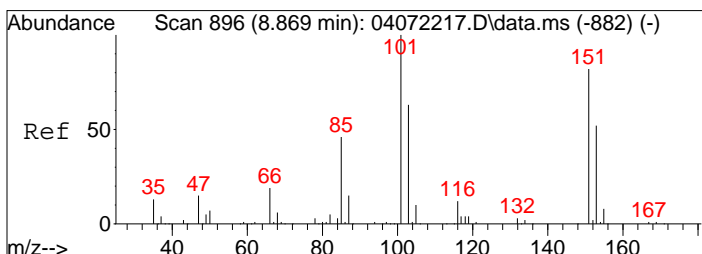
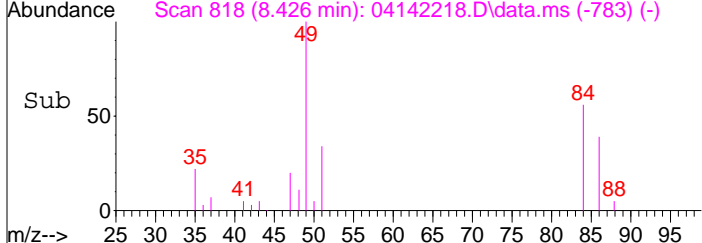
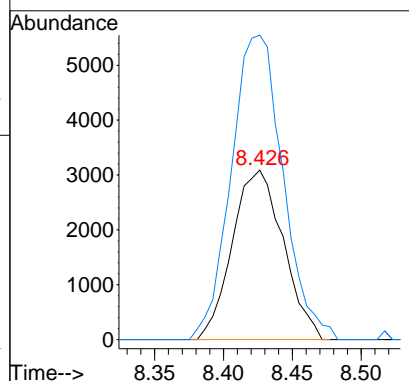
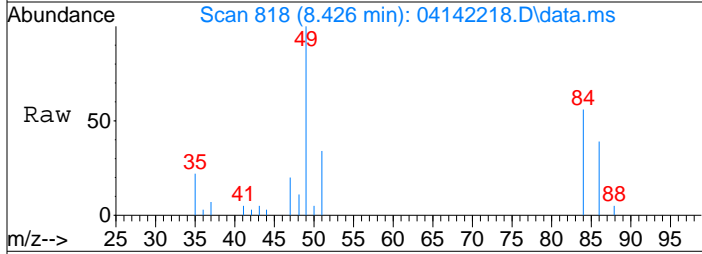
Tgt Ion	Resp	Lower	Upper
45	100		
43	23.1	0.6	40.6





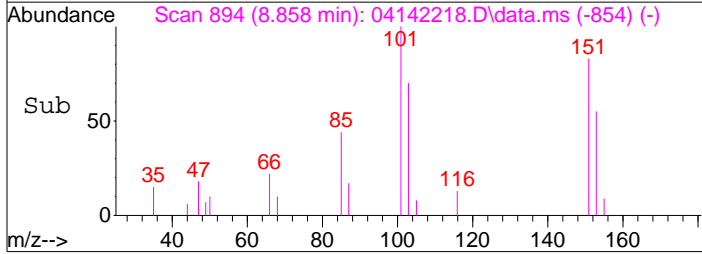
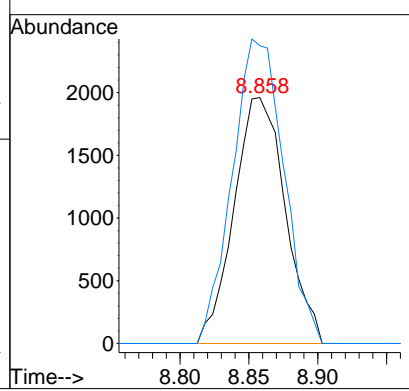
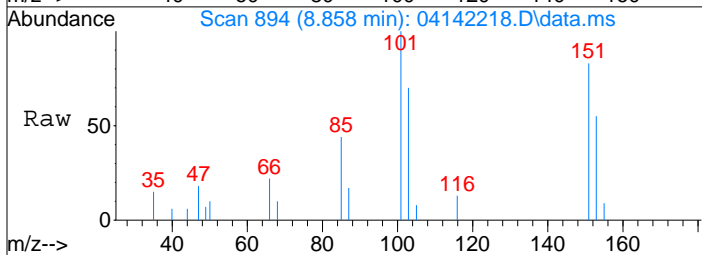
#19
 Methylene Chloride
 Concen: 0.59 ng
 RT: 8.43 min Scan# 818
 Delta R.T. -0.051 min
 Lab File: 04142218.D
 Acq: 14 Apr 2022 16:06

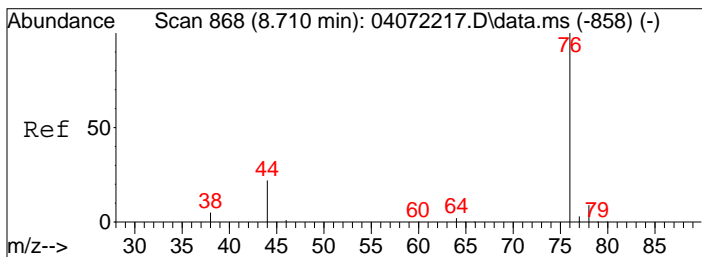
Tgt Ion	Resp	Lower	Upper
84	7951		
84	100		
49	182.6	159.1	209.1



#21
 Trichlorotrifluoroethane
 Concen: 0.41 ng
 RT: 8.86 min Scan# 894
 Delta R.T. -0.023 min
 Lab File: 04142218.D
 Acq: 14 Apr 2022 16:06

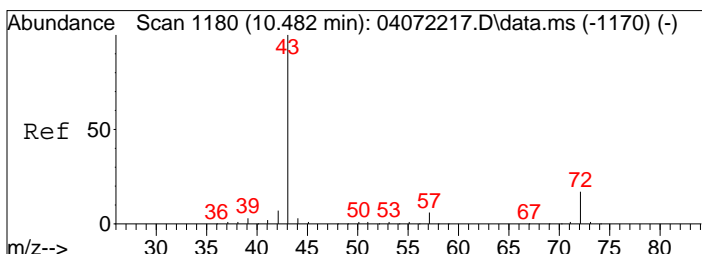
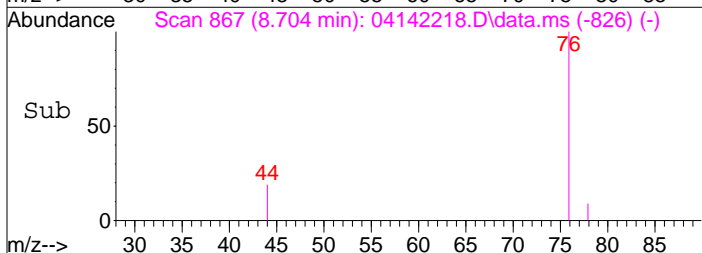
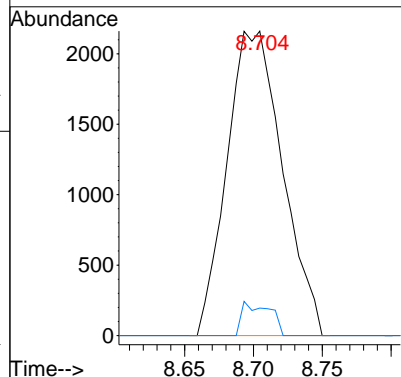
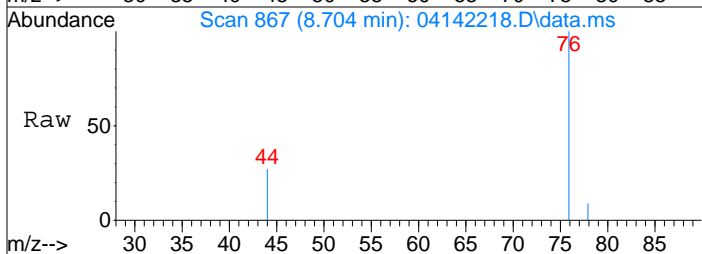
Tgt Ion	Resp	Lower	Upper
151	5084		
151	100		
101	124.3	103.7	143.7





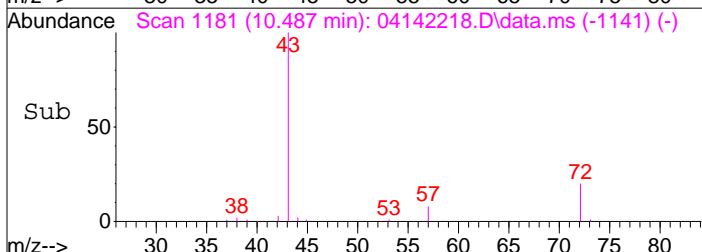
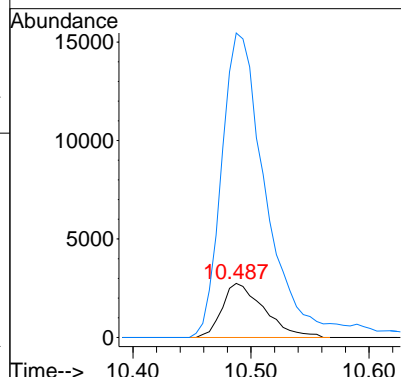
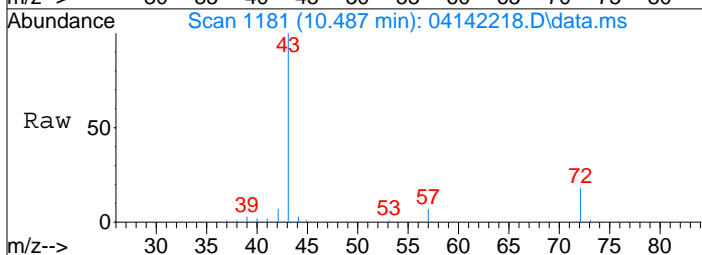
#22
 Carbon Disulfide
 Concen: 0.13 ng
 RT: 8.70 min Scan# 867
 Delta R.T. -0.017 min
 Lab File: 04142218.D
 Acq: 14 Apr 2022 16:06

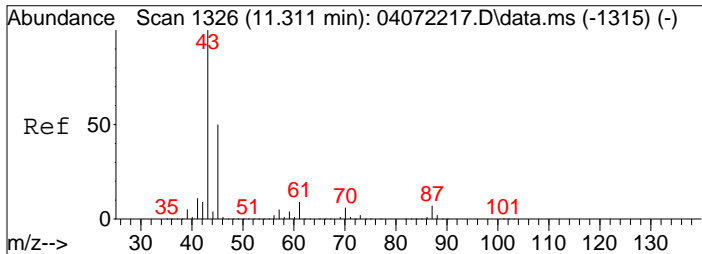
Tgt Ion: 76 Resp: 6062
 Ion Ratio Lower Upper
 76 100
 78 5.5 0.0 29.2



#27
 2-Butanone (MEK)
 Concen: 0.74 ng
 RT: 10.49 min Scan# 1181
 Delta R.T. -0.023 min
 Lab File: 04142218.D
 Acq: 14 Apr 2022 16:06

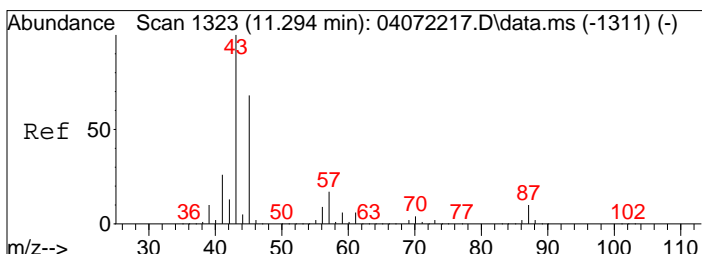
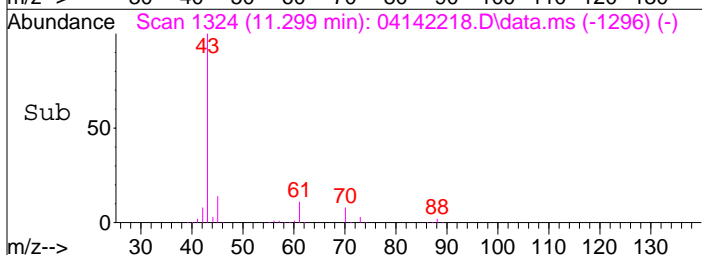
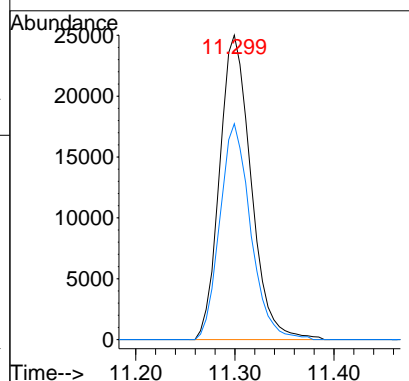
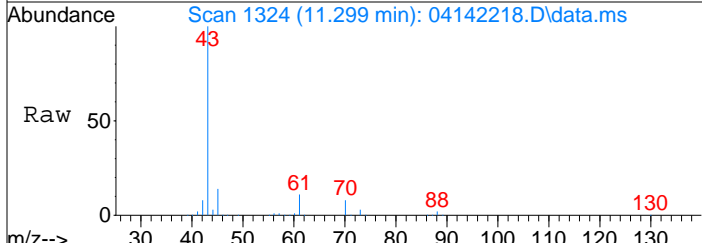
Tgt Ion: 72 Resp: 6773
 Ion Ratio Lower Upper
 72 100
 43 610.7 565.1 605.1#





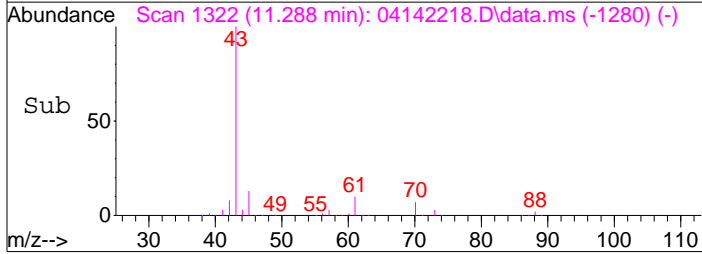
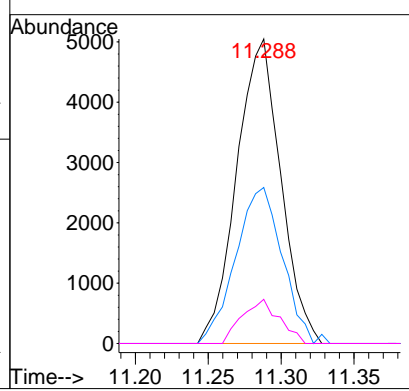
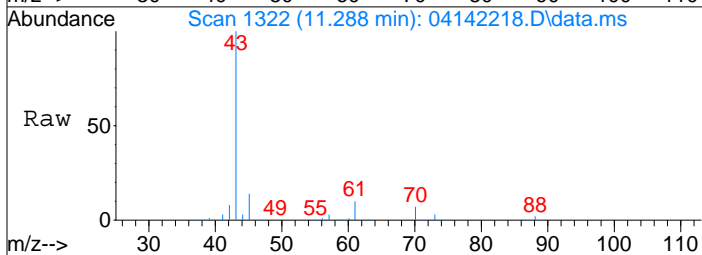
#30
 Ethyl Acetate
 Concen: 8.49 ng
 RT: 11.30 min Scan# 1324
 Delta R.T. -0.040 min
 Lab File: 04142218.D
 Acq: 14 Apr 2022 16:06

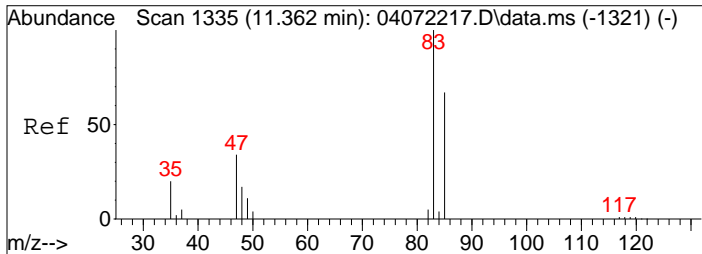
Tgt Ion	Resp	Lower	Upper
61	100		
70	69.5	50.8	90.8



#31
 n-Hexane
 Concen: 0.36 ng
 RT: 11.29 min Scan# 1322
 Delta R.T. -0.011 min
 Lab File: 04142218.D
 Acq: 14 Apr 2022 16:06

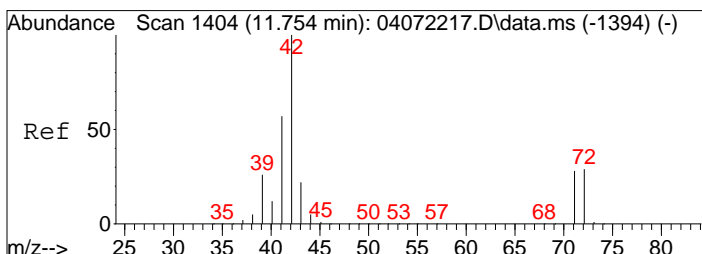
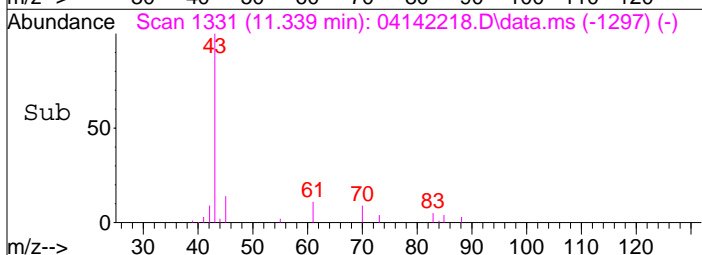
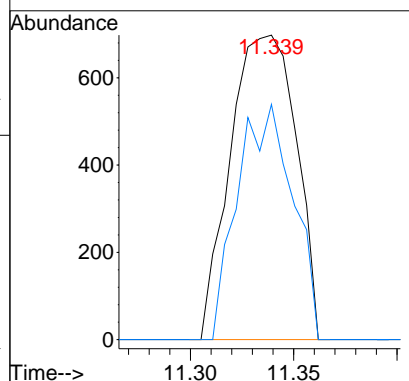
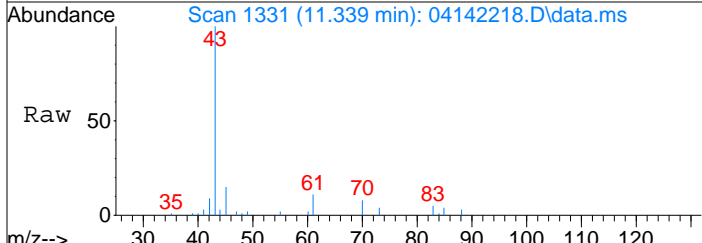
Tgt Ion	Resp	Lower	Upper
57	100		
56	54.4	41.4	62.2
86	12.3	9.9	14.9





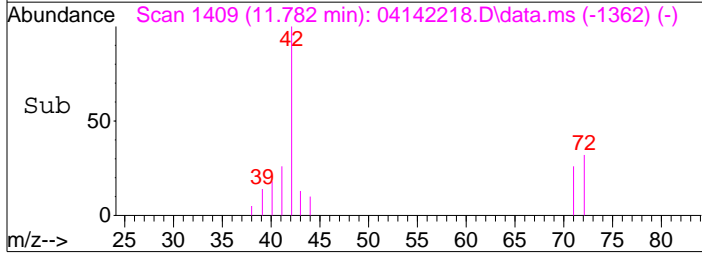
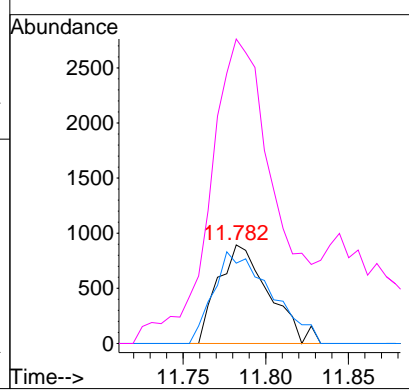
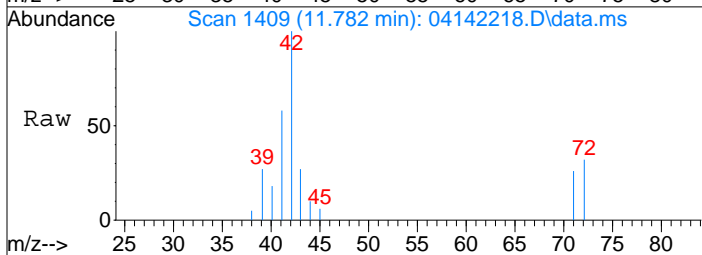
#32
 Chloroform
 Concen: 0.06 ng
 RT: 11.34 min Scan# 1331
 Delta R.T. -0.057 min
 Lab File: 04142218.D
 Acq: 14 Apr 2022 16:06

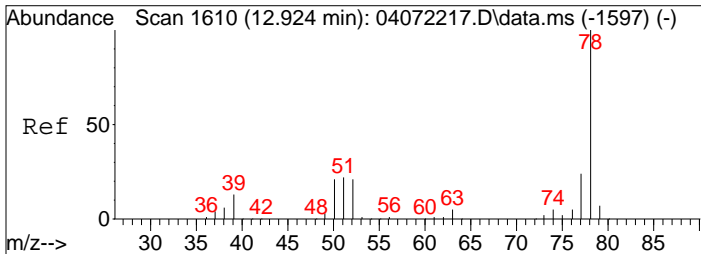
Tgt Ion	Resp	Lower	Upper
83	1548		
83	100		
85	65.1	47.1	87.1



#34
 Tetrahydrofuran (THF)
 Concen: 0.22 ng
 RT: 11.78 min Scan# 1409
 Delta R.T. 0.017 min
 Lab File: 04142218.D
 Acq: 14 Apr 2022 16:06

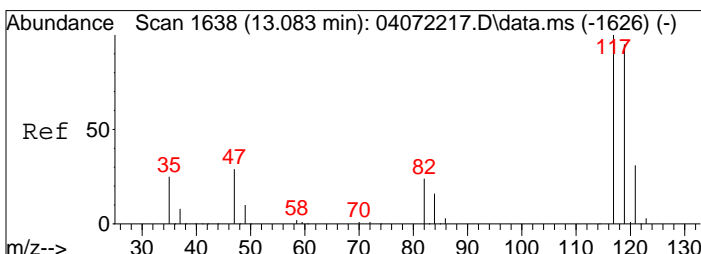
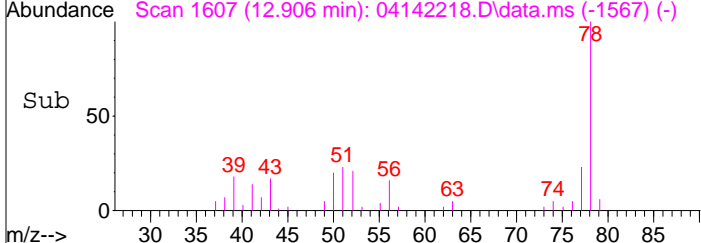
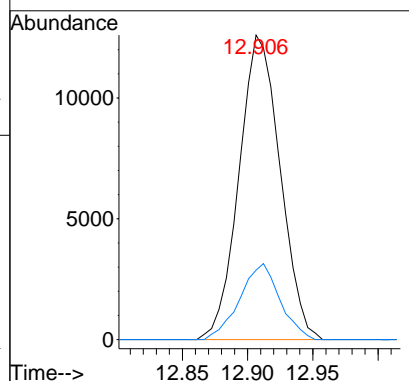
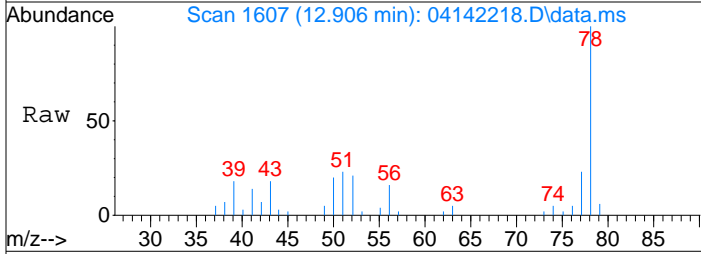
Tgt Ion	Resp	Lower	Upper
72	1911		
72	100		
71	105.5	77.0	117.0
42	395.9	325.1	365.1#





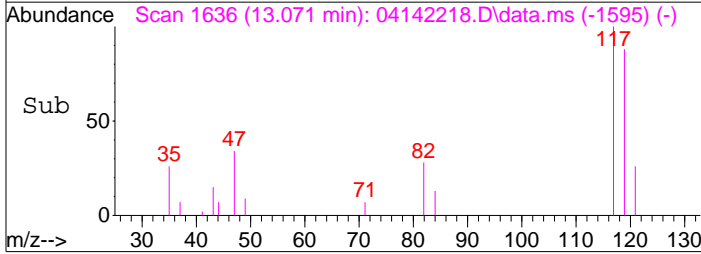
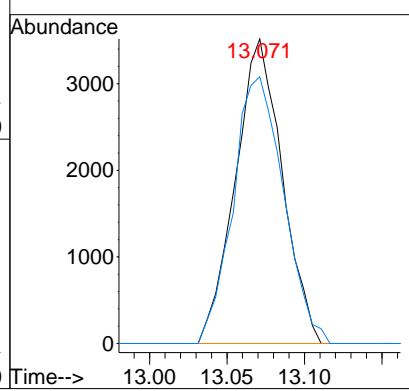
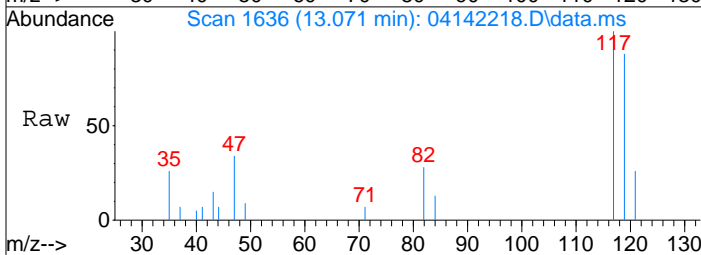
#41
Benzene
Concen: 0.50 ng
RT: 12.91 min Scan# 1607
Delta R.T. -0.023 min
Lab File: 04142218.D
Acq: 14 Apr 2022 16:06

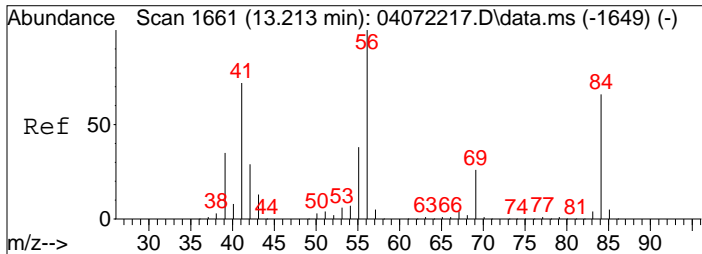
Tgt Ion:	Resp:	Lower	Upper
78	27616		
78	100		
77	24.3	3.9	43.9



#42
Carbon Tetrachloride
Concen: 0.35 ng
RT: 13.07 min Scan# 1636
Delta R.T. -0.017 min
Lab File: 04142218.D
Acq: 14 Apr 2022 16:06

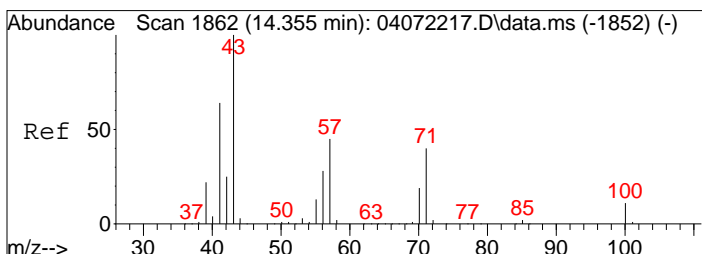
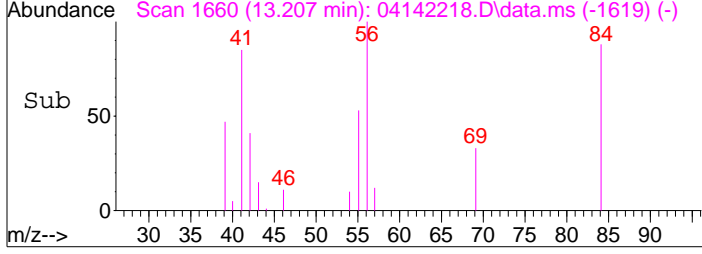
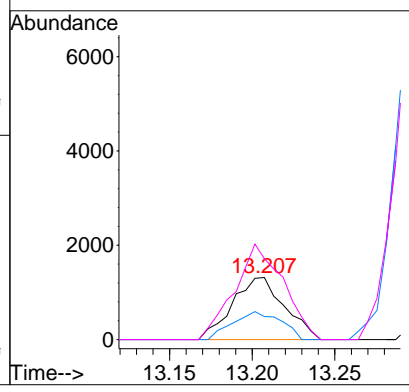
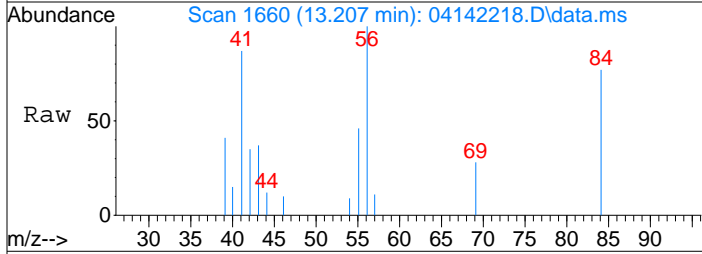
Tgt Ion:	Resp:	Lower	Upper
117	7402		
117	100		
119	94.5	75.0	115.0





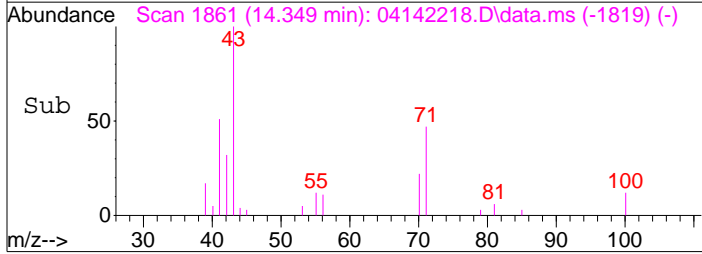
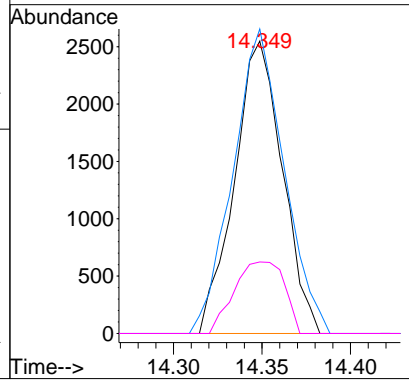
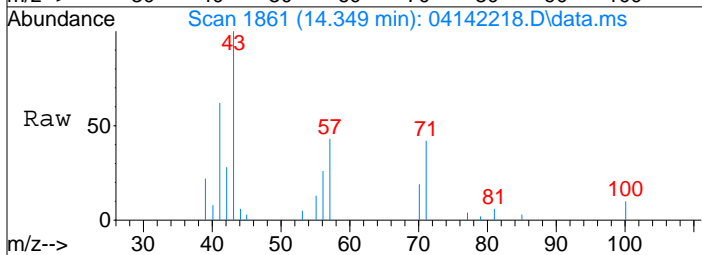
#43
 Cyclohexane
 Concen: 0.14 ng
 RT: 13.21 min Scan# 1660
 Delta R.T. -0.017 min
 Lab File: 04142218.D
 Acq: 14 Apr 2022 16:06

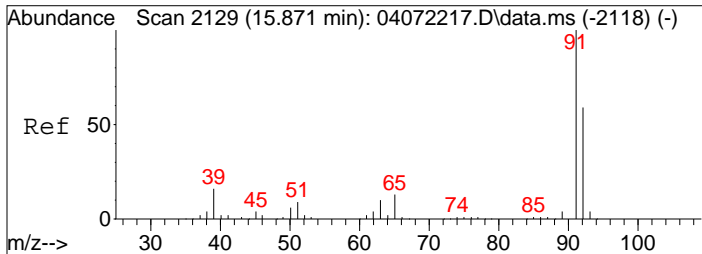
Tgt Ion:	84	Resp:	2881
Ion Ratio	Lower	Upper	
84	100		
69	41.8	18.6	58.6
56	144.4	128.4	168.4



#51
 n-Heptane
 Concen: 0.33 ng
 RT: 14.35 min Scan# 1861
 Delta R.T. -0.011 min
 Lab File: 04142218.D
 Acq: 14 Apr 2022 16:06

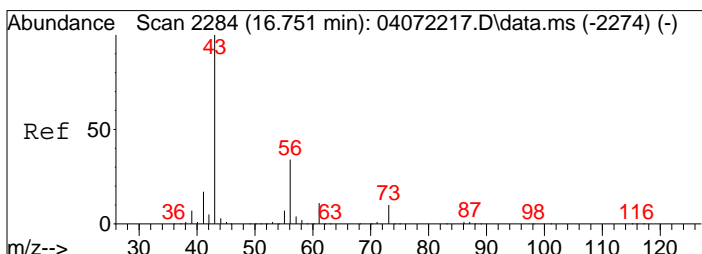
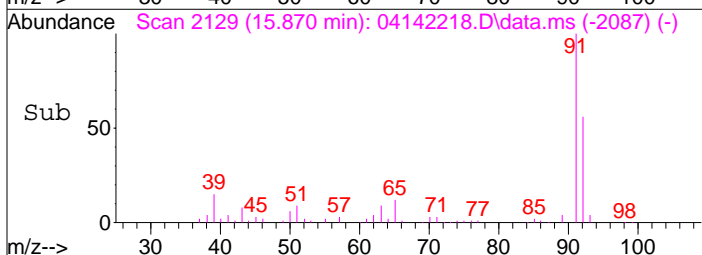
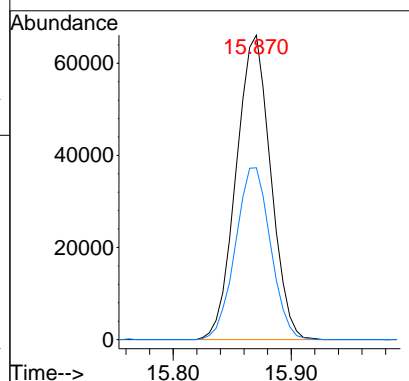
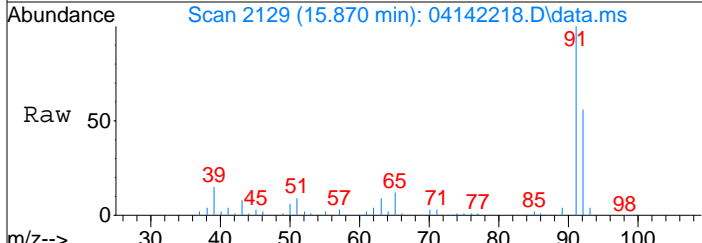
Tgt Ion:	71	Resp:	4798
Ion Ratio	Lower	Upper	
71	100		
57	111.0	89.9	129.9
100	25.7	7.5	47.5





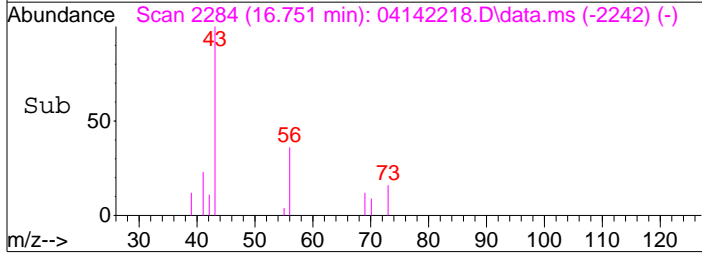
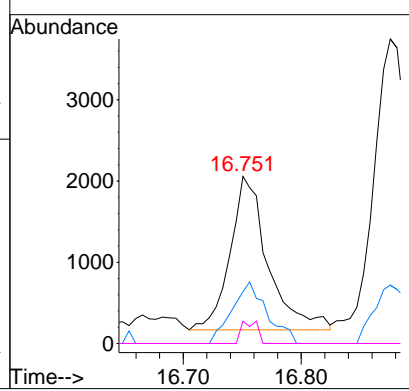
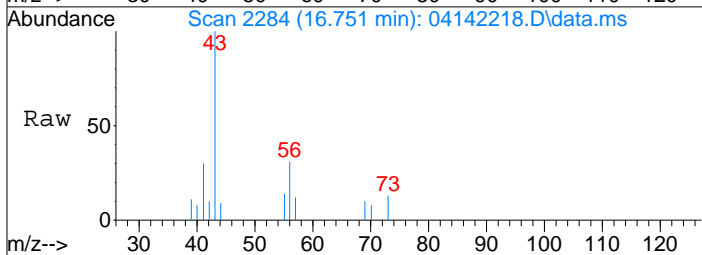
#58
 Toluene
 Concen: 2.31 ng
 RT: 15.87 min Scan# 2129
 Delta R.T. -0.011 min
 Lab File: 04142218.D
 Acq: 14 Apr 2022 16:06

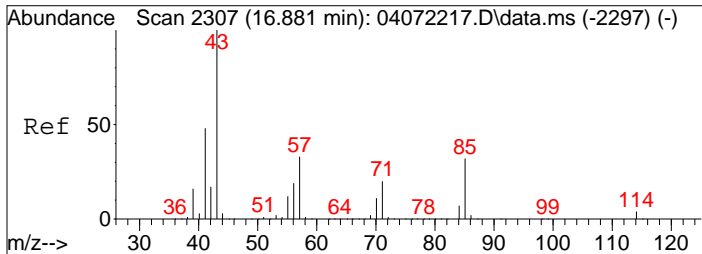
Tgt Ion	Resp	Lower	Upper
91	134421	100	
92	57.5	38.3	78.3



#62
 n-Butyl Acetate
 Concen: 0.09 ng
 RT: 16.75 min Scan# 2284
 Delta R.T. -0.011 min
 Lab File: 04142218.D
 Acq: 14 Apr 2022 16:06

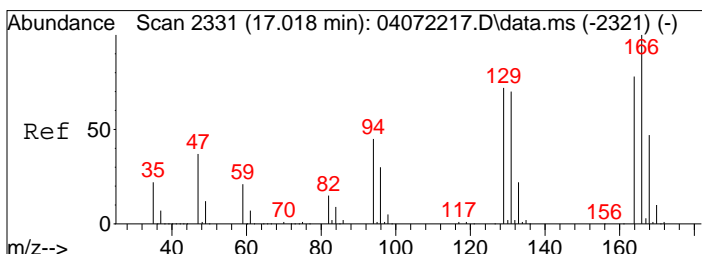
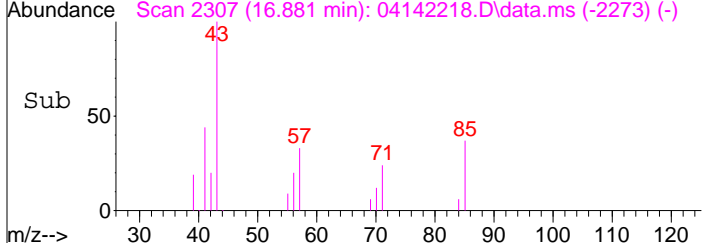
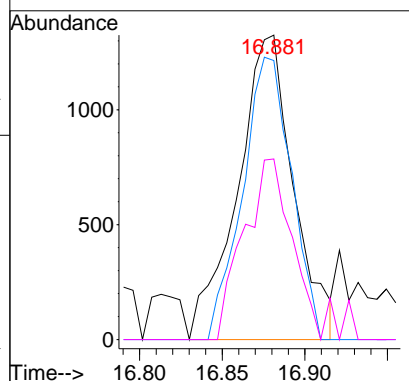
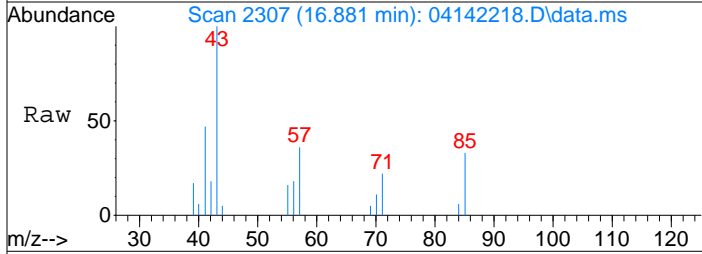
Tgt Ion	Resp	Lower	Upper
43	4216	100	
56	37.0	13.8	53.8
73	6.1	0.0	29.9





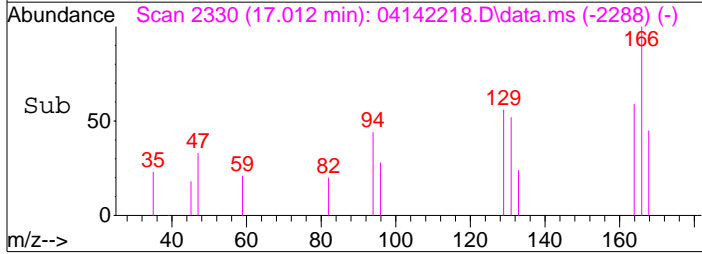
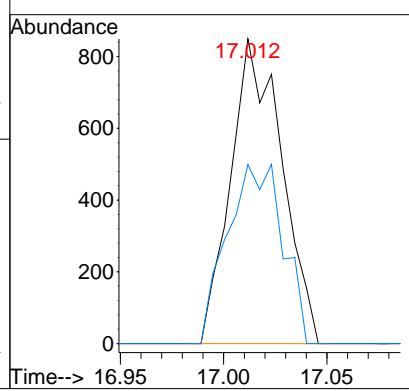
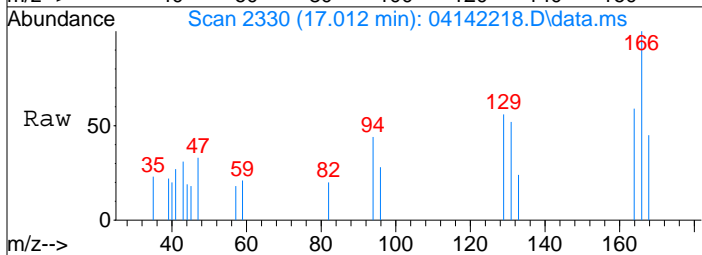
#63
 n-Octane
 Concen: 0.21 ng
 RT: 16.88 min Scan# 2307
 Delta R.T. -0.006 min
 Lab File: 04142218.D
 Acq: 14 Apr 2022 16:06

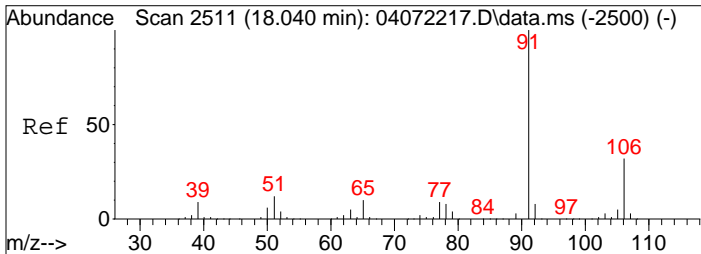
Tgt Ion:	Resp:	Lower	Upper
57	3125		
57	100		
85	81.2	77.4	116.0
71	50.5	47.0	70.6



#64
 Tetrachloroethene
 Concen: 0.09 ng
 RT: 17.01 min Scan# 2330
 Delta R.T. -0.011 min
 Lab File: 04142218.D
 Acq: 14 Apr 2022 16:06

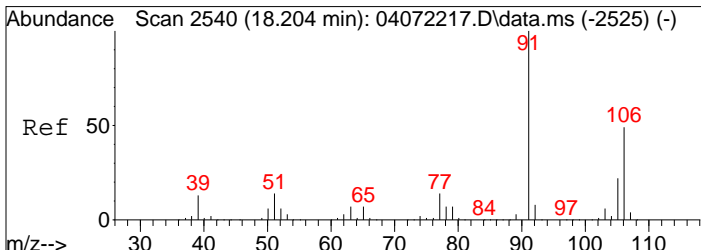
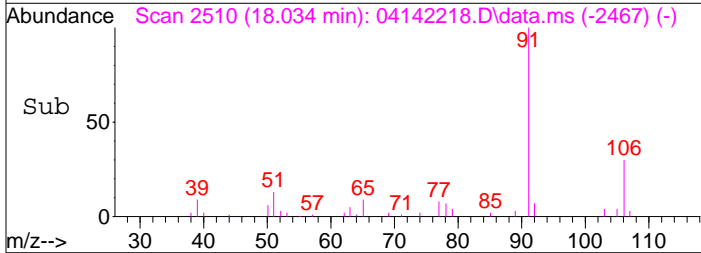
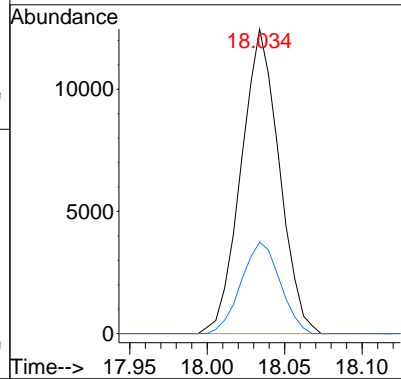
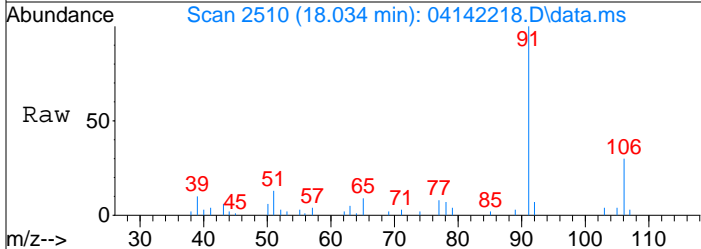
Tgt Ion:	Resp:	Lower	Upper
166	1460		
166	100		
164	64.1	57.8	97.8





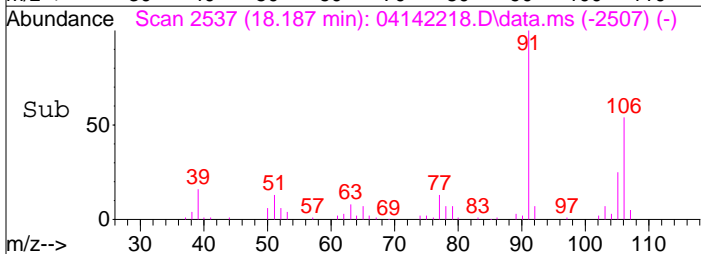
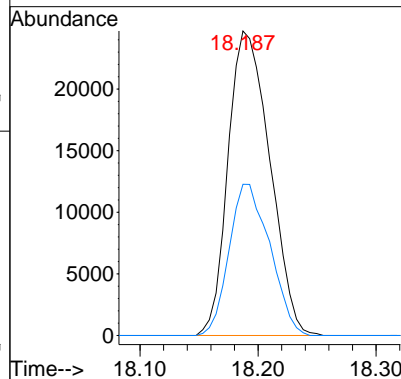
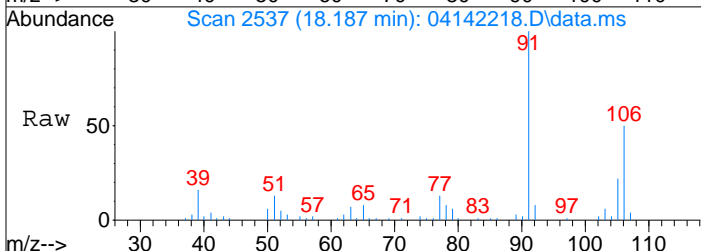
#66
 Ethylbenzene
 Concen: 0.32 ng
 RT: 18.03 min Scan# 2510
 Delta R.T. -0.006 min
 Lab File: 04142218.D
 Acq: 14 Apr 2022 16:06

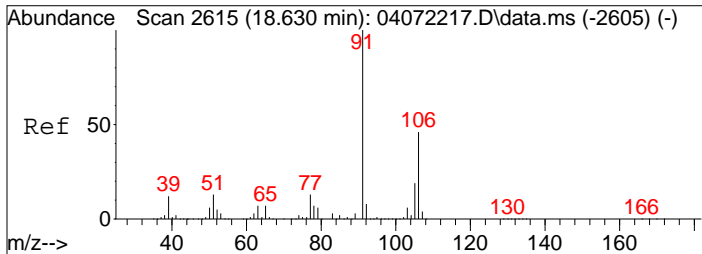
Tgt Ion	Resp	Lower	Upper
91	21387	100	
106	30.6	11.6	51.6



#67
 m- & p-Xylenes
 Concen: 1.14 ng
 RT: 18.19 min Scan# 2537
 Delta R.T. -0.029 min
 Lab File: 04142218.D
 Acq: 14 Apr 2022 16:06

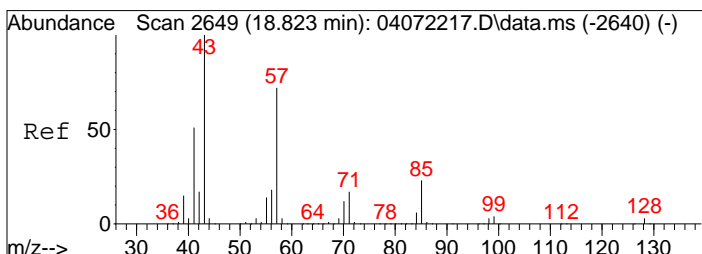
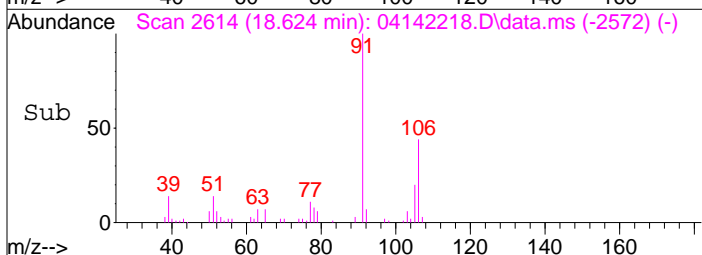
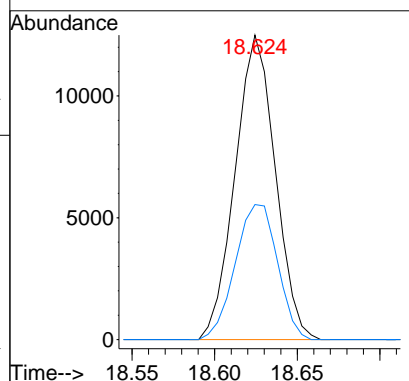
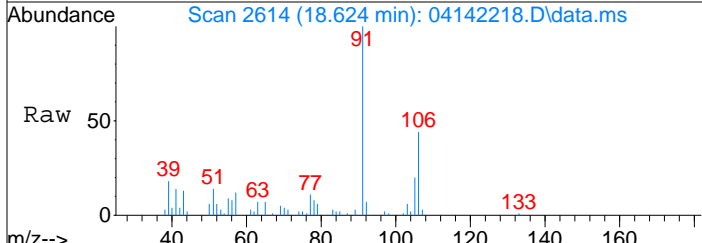
Tgt Ion	Resp	Lower	Upper
91	60674	100	
106	48.6	28.3	68.3





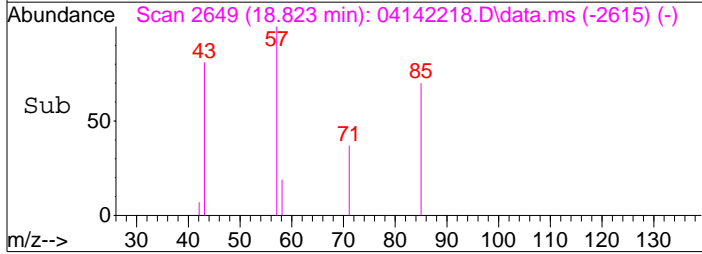
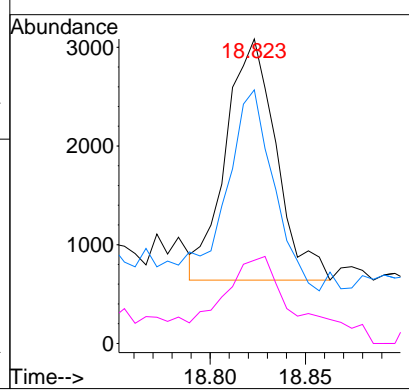
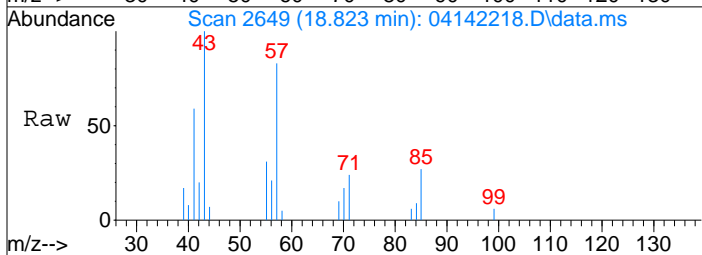
#70
 o-Xylene
 Concen: 0.39 ng
 RT: 18.62 min Scan# 2614
 Delta R.T. -0.011 min
 Lab File: 04142218.D
 Acq: 14 Apr 2022 16:06

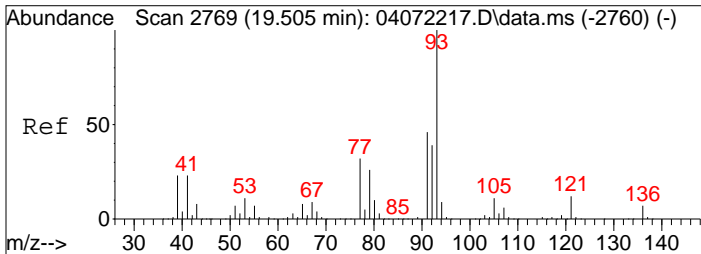
Tgt Ion	Resp	Lower	Upper
91	21138	100	100
106	46.6	26.5	66.5



#71
 n-Nonane
 Concen: 0.11 ng
 RT: 18.82 min Scan# 2649
 Delta R.T. -0.006 min
 Lab File: 04142218.D
 Acq: 14 Apr 2022 16:06

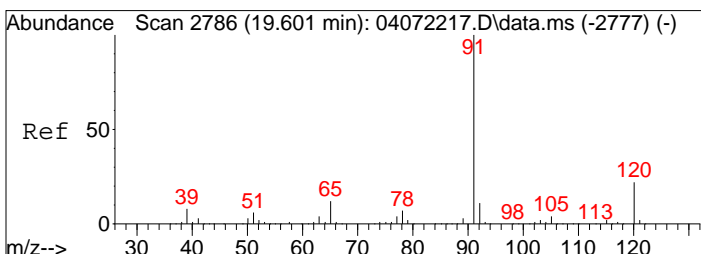
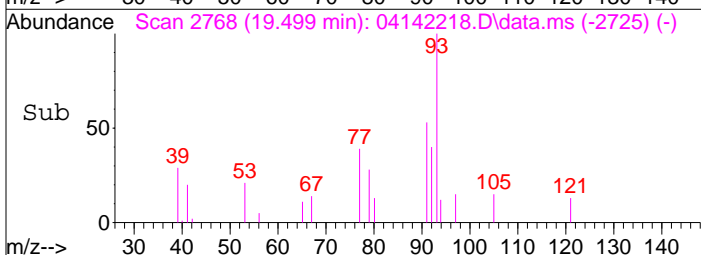
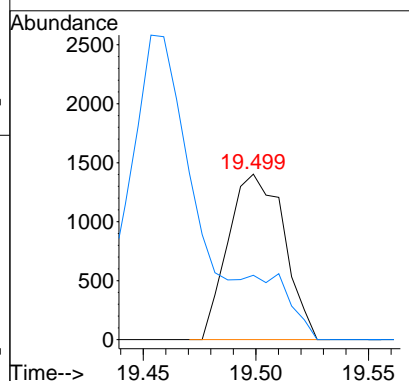
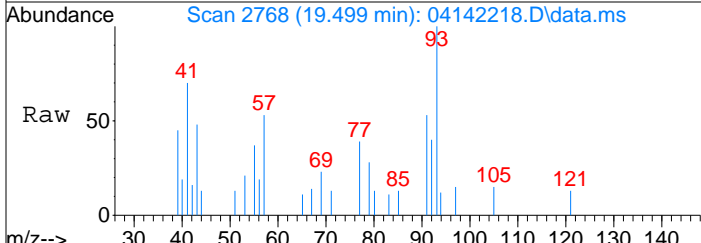
Tgt Ion	Resp	Lower	Upper
43	4486	100	100
57	80.0	52.5	92.5
85	52.0	3.6	43.6#





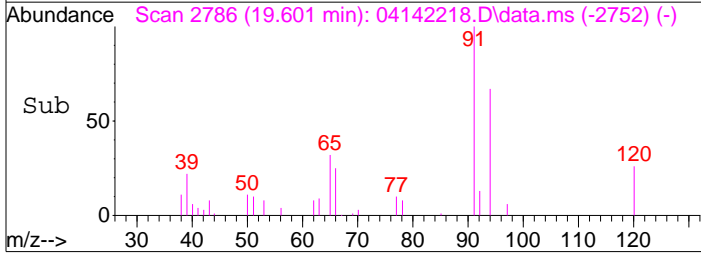
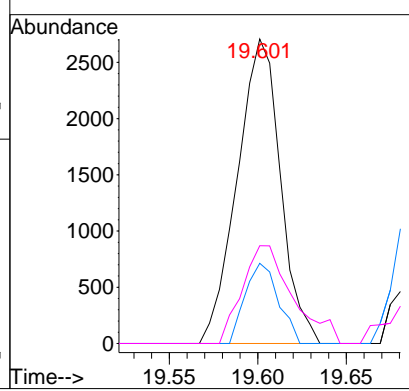
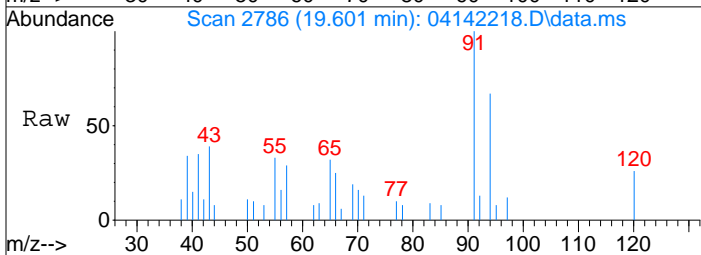
#75
 alpha-Pinene
 Concen: 0.08 ng
 RT: 19.50 min Scan# 2768
 Delta R.T. -0.006 min
 Lab File: 04142218.D
 Acq: 14 Apr 2022 16:06

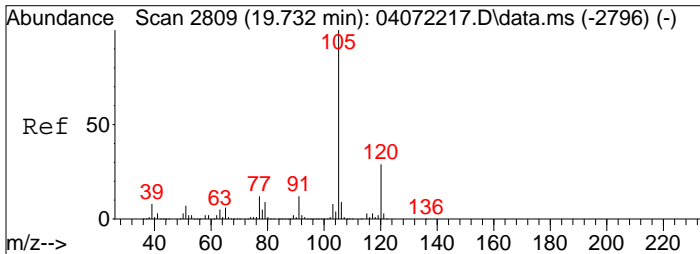
Tgt Ion	Resp	Lower	Upper
93	2427		
93	100		
77	239.3	12.7	52.7#



#76
 n-Propylbenzene
 Concen: 0.06 ng
 RT: 19.60 min Scan# 2786
 Delta R.T. -0.006 min
 Lab File: 04142218.D
 Acq: 14 Apr 2022 16:06

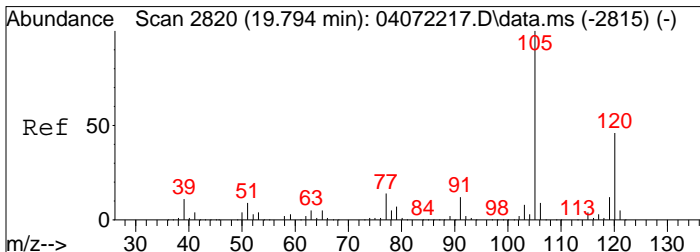
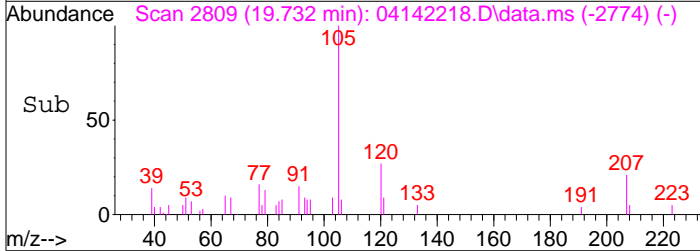
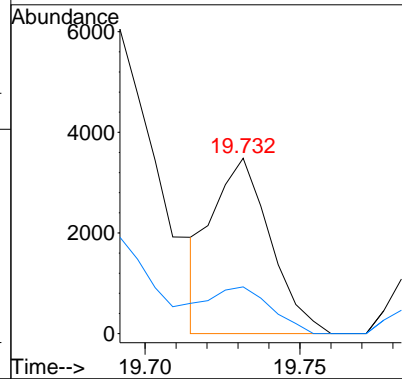
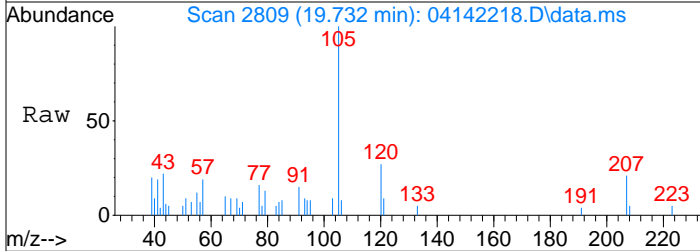
Tgt Ion	Resp	Lower	Upper
91	4602		
91	100		
120	20.3	2.3	42.3
65	37.4	0.0	31.8#





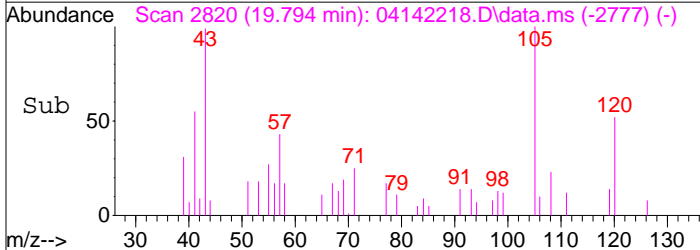
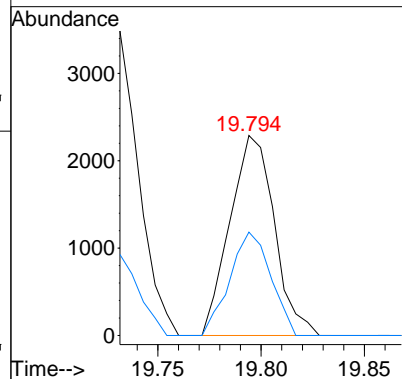
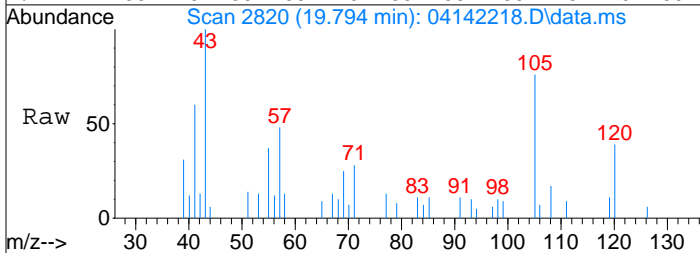
#78
 4-Ethyltoluene
 Concen: 0.07 ng
 RT: 19.73 min Scan# 2809
 Delta R.T. -0.000 min
 Lab File: 04142218.D
 Acq: 14 Apr 2022 16:06

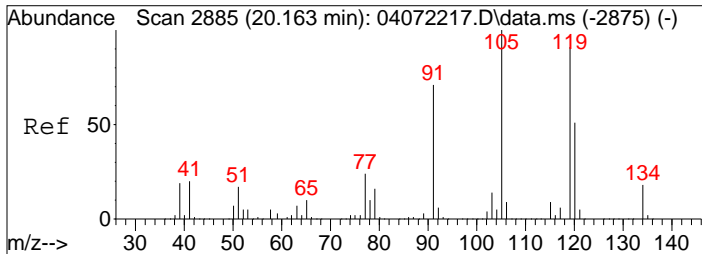
Tgt Ion	Resp	Lower	Upper
105	100		
120	28.0	9.4	49.4



#79
 1,3,5-Trimethylbenzene
 Concen: 0.06 ng
 RT: 19.79 min Scan# 2820
 Delta R.T. -0.006 min
 Lab File: 04142218.D
 Acq: 14 Apr 2022 16:06

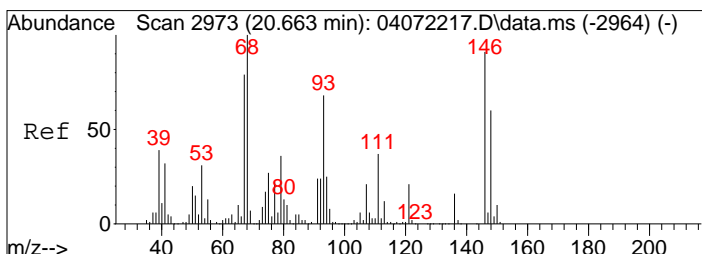
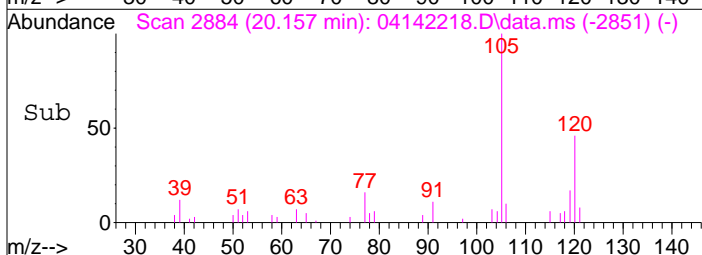
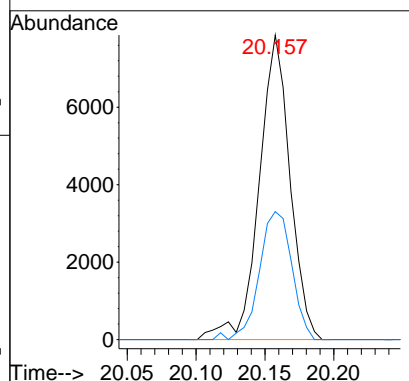
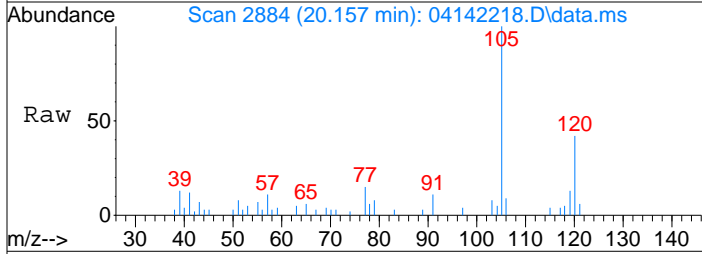
Tgt Ion	Resp	Lower	Upper
105	100		
120	47.7	27.1	67.1





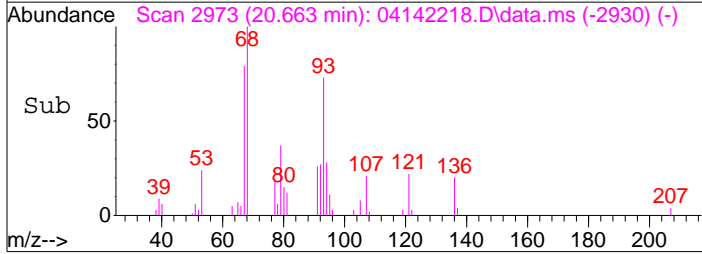
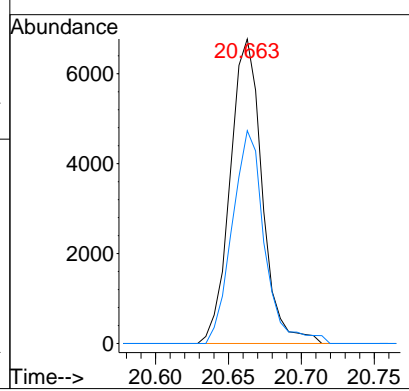
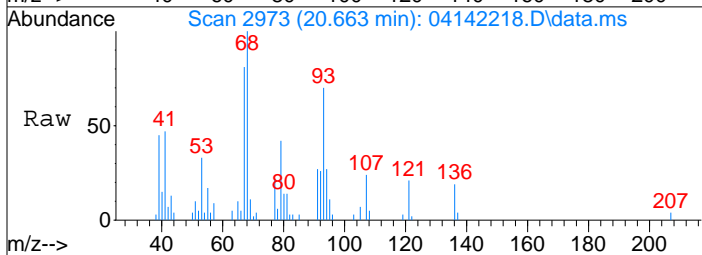
#82
 1,2,4-Trimethylbenzene
 Concen: 0.21 ng
 RT: 20.16 min Scan# 2884
 Delta R.T. -0.011 min
 Lab File: 04142218.D
 Acq: 14 Apr 2022 16:06

Tgt Ion	Resp	Lower	Upper
105	12261		
105	100		
120	44.1	31.1	71.1



#91
 d-Limonene
 Concen: 0.49 ng
 RT: 20.66 min Scan# 2973
 Delta R.T. -0.006 min
 Lab File: 04142218.D
 Acq: 14 Apr 2022 16:06

Tgt Ion	Resp	Lower	Upper
68	10363		
68	100		
93	70.6	48.9	88.9



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: NYS Department of Environmental Conservation

Client Sample ID: Building-1-SS1-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-002

Test Code: EPA TO-15

Date Collected: 4/7/22

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 4/8/22

Analyst: Simon Cao

Date Analyzed: 4/14/22

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC02308

Initial Pressure (psig): -3.15 Final Pressure (psig): 4.10

Canister Dilution Factor: 1.63

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	0.99	0.85	0.57	0.49	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.3	0.86	0.47	0.17	
74-87-3	Chloromethane	ND	0.34	ND	0.17	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.88	ND	0.13	
75-01-4	Vinyl Chloride	ND	0.18	ND	0.070	
106-99-0	1,3-Butadiene	ND	0.34	ND	0.15	
74-83-9	Bromomethane	ND	0.34	ND	0.088	
75-00-3	Chloroethane	ND	0.34	ND	0.13	
64-17-5	Ethanol	ND	8.2	ND	4.3	
75-05-8	Acetonitrile	ND	1.6	ND	0.97	
107-02-8	Acrolein	ND	1.6	ND	0.71	
67-64-1	Acetone	ND	8.5	ND	3.6	
75-69-4	Trichlorofluoromethane (CFC 11)	1.1	0.85	0.20	0.15	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.6	1.6	1.5	0.66	
107-13-1	Acrylonitrile	ND	1.6	ND	0.75	
75-35-4	1,1-Dichloroethene	ND	0.18	ND	0.045	
75-09-2	Methylene Chloride	ND	0.85	ND	0.24	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.86	ND	0.28	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.88	ND	0.11	
75-15-0	Carbon Disulfide	ND	1.8	ND	0.58	
156-60-5	trans-1,2-Dichloroethene	ND	0.18	ND	0.045	
75-34-3	1,1-Dichloroethane	ND	0.18	ND	0.044	
1634-04-4	Methyl tert-Butyl Ether	ND	0.86	ND	0.24	
108-05-4	Vinyl Acetate	ND	8.2	ND	2.3	
78-93-3	2-Butanone (MEK)	ND	1.6	ND	0.55	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3

Client: NYS Department of Environmental Conservation

Client Sample ID: Building-1-SS1-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-002

Test Code: EPA TO-15

Date Collected: 4/7/22

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 4/8/22

Analyst: Simon Cao

Date Analyzed: 4/14/22

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC02308

Initial Pressure (psig): -3.15 Final Pressure (psig): 4.10

Canister Dilution Factor: 1.63

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	0.74	0.18	0.19	0.045	
141-78-6	Ethyl Acetate	180	3.4	51	0.95	
110-54-3	n-Hexane	1.5	0.86	0.41	0.25	
67-66-3	Chloroform	1.4	0.18	0.29	0.037	
109-99-9	Tetrahydrofuran (THF)	1.8	1.6	0.61	0.55	
107-06-2	1,2-Dichloroethane	ND	0.18	ND	0.044	
71-55-6	1,1,1-Trichloroethane	0.37	0.18	0.068	0.033	
71-43-2	Benzene	1.3	0.18	0.42	0.056	
56-23-5	Carbon Tetrachloride	0.74	0.18	0.12	0.029	
110-82-7	Cyclohexane	ND	1.8	ND	0.52	
78-87-5	1,2-Dichloropropane	ND	0.18	ND	0.039	
75-27-4	Bromodichloromethane	ND	0.18	ND	0.027	
79-01-6	Trichloroethene	2.5	0.18	0.47	0.033	
123-91-1	1,4-Dioxane	ND	0.85	ND	0.24	
80-62-6	Methyl Methacrylate	ND	1.8	ND	0.44	
142-82-5	n-Heptane	1.2	0.86	0.29	0.21	
10061-01-5	cis-1,3-Dichloropropene	ND	0.86	ND	0.19	
108-10-1	4-Methyl-2-pentanone	ND	1.8	ND	0.44	
10061-02-6	trans-1,3-Dichloropropene	ND	0.83	ND	0.18	
79-00-5	1,1,2-Trichloroethane	ND	0.18	ND	0.033	
108-88-3	Toluene	13	0.85	3.5	0.23	
591-78-6	2-Hexanone	ND	1.8	ND	0.44	
124-48-1	Dibromochloromethane	ND	0.18	ND	0.021	
106-93-4	1,2-Dibromoethane	ND	0.18	ND	0.023	
123-86-4	n-Butyl Acetate	ND	1.8	ND	0.38	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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

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Client: NYS Department of Environmental Conservation

Client Sample ID: Building-1-SS1-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-002

Test Code: EPA TO-15

Date Collected: 4/7/22

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 4/8/22

Analyst: Simon Cao

Date Analyzed: 4/14/22

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC02308

Initial Pressure (psig): -3.15 Final Pressure (psig): 4.10

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.86	ND	0.18	
127-18-4	Tetrachloroethene	88	0.18	13	0.026	
108-90-7	Chlorobenzene	ND	0.85	ND	0.18	
100-41-4	Ethylbenzene	1.6	0.85	0.37	0.20	
179601-23-1	m,p-Xylenes	6.2	1.8	1.4	0.41	
75-25-2	Bromoform	ND	0.85	ND	0.082	
100-42-5	Styrene	ND	0.85	ND	0.20	
95-47-6	o-Xylene	2.0	0.85	0.46	0.20	
111-84-2	n-Nonane	ND	0.85	ND	0.16	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.18	ND	0.026	
98-82-8	Cumene	ND	0.85	ND	0.17	
80-56-8	alpha-Pinene	ND	0.88	ND	0.16	
103-65-1	n-Propylbenzene	ND	0.86	ND	0.18	
622-96-8	4-Ethyltoluene	ND	0.86	ND	0.18	
108-67-8	1,3,5-Trimethylbenzene	ND	0.85	ND	0.17	
95-63-6	1,2,4-Trimethylbenzene	1.3	0.85	0.27	0.17	
100-44-7	Benzyl Chloride	ND	1.8	ND	0.35	
541-73-1	1,3-Dichlorobenzene	ND	0.85	ND	0.14	
106-46-7	1,4-Dichlorobenzene	ND	0.85	ND	0.14	
95-50-1	1,2-Dichlorobenzene	ND	0.86	ND	0.14	
5989-27-5	d-Limonene	ND	0.85	ND	0.15	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.6	ND	0.17	
120-82-1	1,2,4-Trichlorobenzene	ND	1.6	ND	0.22	
91-20-3	Naphthalene	ND	0.85	ND	0.16	
87-68-3	Hexachlorobutadiene	ND	0.85	ND	0.079	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Data File : I:\MS09\DATA\2022 04\14\04142219.D
 Acq On : 14 Apr 2022 16:40
 Sample : P2201602-002 (1000mL)
 Misc : S35-04132201

Vial: 4
 Operator: SC
 Inst : MS09

Quant Time: Apr 14 17:05:55 2022

Quant Method : I:\MS09\Methods\R9040722.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

4/14/22

QLast Update : Thu Apr 07 16:31:14 2022

Response via : Initial Calibration

DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.17	130	151761	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	13.31	114	667294	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.64	54	172528	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.03	65	296064	12.754	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	102.00%	
57) Toluene-d8 (SS2)	15.77	98	783643	12.465	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	99.76%	
73) Bromofluorobenzene (SS3)	19.03	174	247204	11.165	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	89.36%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.07	42	12689	0.606	ng	# 50
3) Dichlorodifluoromethan...	4.21	85	40502	1.413	ng	99
4) Chloromethane	4.51	50	1051	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	4.78	135	826	0.064	ng	# 42
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.19	54	240	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.31	45	47818	3.130	ng	99
11) Acetonitrile	6.68	41	181	N.D.		
12) Acrolein	6.79	56	1048	0.112	ng	95
13) Acetone	7.00	58	44550	3.704	ng	# 1
14) Trichlorofluoromethane	7.24	101	18739	0.702	ng	100
15) 2-Propanol (Isopropanol)	7.48	45	104824	2.205	ng	95
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...	8.44	59	217	N.D.		
19) Methylene Chloride	8.43	84	2994	0.239	ng	96
20) 3-Chloro-1-propene (Al...	8.60	41	476	N.D.		
21) Trichlorotrifluoroethane	8.87	151	3251	0.284	ng	89
22) Carbon Disulfide	8.71	76	1880	N.D.		
23) trans-1,2-Dichloroethene	9.72	61	1767	0.089	ng	87
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)	10.49	72	4273	0.509	ng	# 79
28) cis-1,2-Dichloroethene	11.00	61	9047	0.453	ng	98
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	11.30	61	670323	111.718	ng	97
31) n-Hexane	11.29	57	24098	0.891	ng	91
32) Chloroform	11.35	83	20624	0.879	ng	100
34) Tetrahydrofuran (THF)	11.77	72	8884	1.102	ng	# 90
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	12.15	62	115	N.D.		
38) 1,1,1-Trichloroethane	12.43	97	5238	0.229	ng	96
39) Isopropyl Acetate	13.31	61	22864	No Calib		
40) 1-Butanol	12.90	56	12013	No Calib		#
41) Benzene	12.91	78	42716	0.827	ng	97
42) Carbon Tetrachloride	13.07	117	9028	0.454	ng	98
43) Cyclohexane	13.20	84	5627	0.284	ng	97
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.	d	
46) Bromodichloromethane	13.99	83	685	N.D.		
47) Trichloroethene	14.01	130	22665	1.539	ng	97
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	14.08	100	246	N.D.		

Data File : I:\MS09\DATA\2022 04\14\04142219.D
 Acq On : 14 Apr 2022 16:40
 Sample : P2201602-002 (1000mL)
 Misc : S35-04132201

Vial: 4
 Operator: SC
 Inst : MS09

Quant Time: Apr 14 17:05:55 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

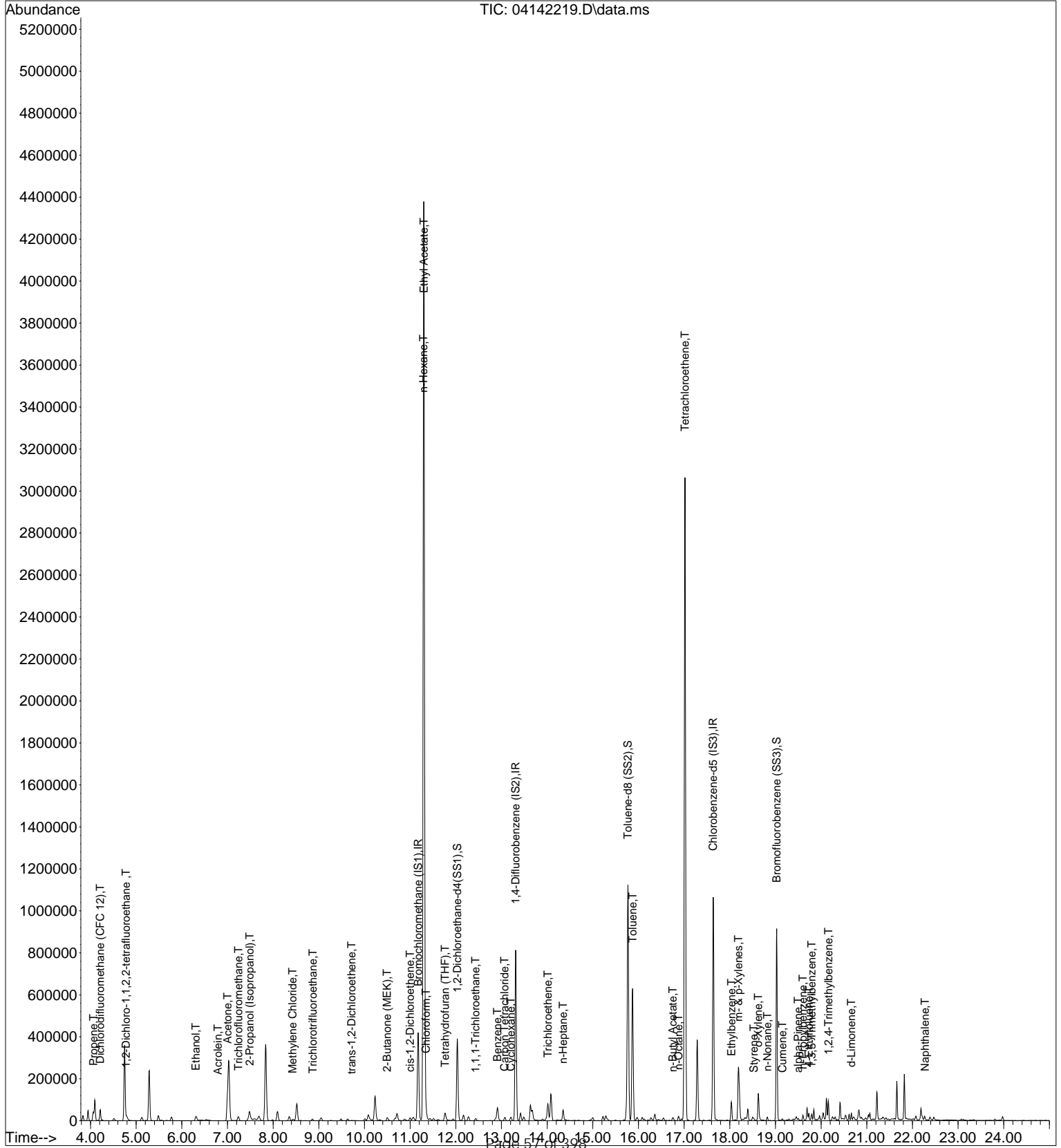
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.35	71	9821	0.728	ng	99
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	14.93	58	662	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.87	91	464366	8.033	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	16.75	43	12914	0.266	ng	95
63) n-Octane	16.88	57	3932	0.271	ng	96
64) Tetrachloroethene	17.02	166	892114	54.186	ng	100
65) Chlorobenzene	17.68	112	1139	N.D.		
66) Ethylbenzene	18.03	91	64601	0.982	ng	98
67) m- & p-Xylenes	18.19	91	200780	3.798	ng	99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.53	104	2603	0.069	ng	94
70) o-Xylene	18.62	91	65913	1.236	ng	99
71) n-Nonane	18.82	43	6980	0.170	ng	93
72) 1,1,2,2-Tetrachloroethane	18.69	83	177	N.D.		
74) Cumene	19.15	105	3395	0.050	ng	98
75) alpha-Pinene	19.50	93	3420	0.107	ng	98
76) n-Propylbenzene	19.60	91	14805	0.183	ng	92
77) 3-Ethyltoluene	19.73	105	17079	No Calib		
78) 4-Ethyltoluene	19.73	105	17079	0.262	ng	100
79) 1,3,5-Trimethylbenzene	19.79	105	11430	0.207	ng	98
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.66	105	460	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.16	105	46771	0.820	ng	89
83) n-Decane	20.54	58	292	No Calib	#	
84) Benzyl Chloride	20.36	91	588	N.D.		
85) 1,3-Dichlorobenzene	20.35	146	306	N.D.		
86) 1,4-Dichlorobenzene	20.35	146	306	N.D.		
87) sec-Butylbenzene	20.39	105	862	N.D.		
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.	d	
89) 1,2,3-Trimethylbenzene	20.39	105	862	No Calib	#	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	20.66	68	7038	0.332	ng	90
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	21.36	58	178	No Calib	#	
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	22.28	128	5806	0.081	ng	92
96) n-Dodecane	22.26	58	109	No Calib	#	
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	18.62	55	2354	No Calib	#	
99) tert-Butylbenzene	0.00	119	0	N.D.	d	
100) n-Butylbenzene	20.90	91	2748	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\2022 04\14\04142219.D
Acq On : 14 Apr 2022 16:40
Sample : P2201602-002 (1000mL)
Misc : S35-04132201

Vial: 4
Operator: SC
Inst : MS09

Quant Time: Apr 14 17:05:55 2022
Quant Method : I:\MS09\Methods\R9040722.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Apr 07 16:31:14 2022
Response via : Initial Calibration
DataAcq Meth:TO15.M



TIC: 04142219.D\data.ms

Data File : I:\MS09\DATA\2022 04\14\04142219.D
 Acq On : 14 Apr 2022 16:40
 Sample : P2201602-002 (1000mL)
 Misc : S35-04132201

Vial: 4
 Operator: SC
 Inst : MS09

Quant Time: Apr 14 17:05:55 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

U 4/14/22

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.17	130	151761	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	13.31	114	667294	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.64	54	172528	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.03	65	296064	12.754	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	102.00%	
57) Toluene-d8 (SS2)	15.77	98	783643	12.465	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	99.76%	
73) Bromofluorobenzene (SS3)	19.03	174	247204	11.165	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	89.36%	

Target Compounds

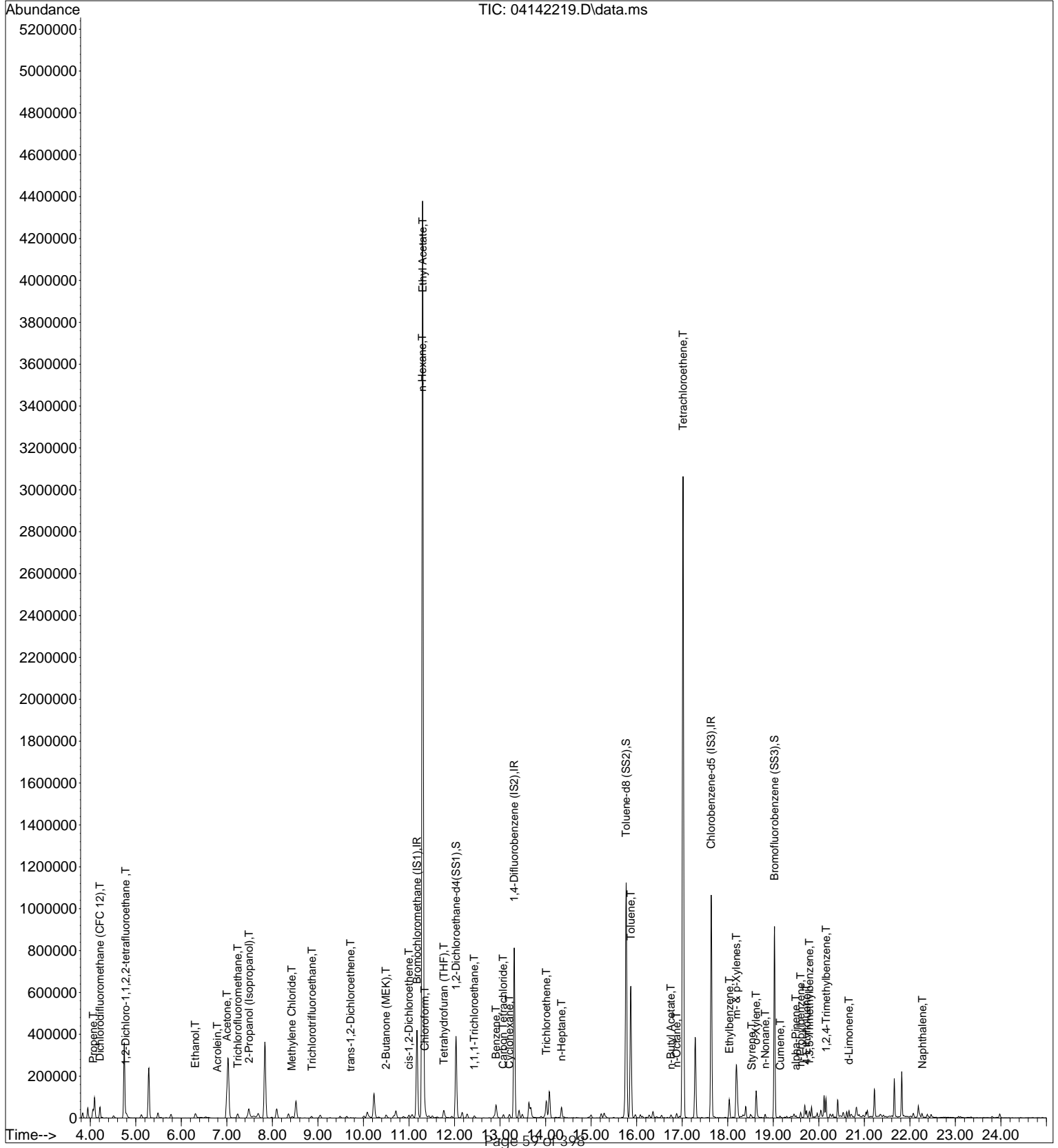
	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.07	42	12689	0.606	ng	# 50
3) Dichlorodifluoromethan...	4.21	85	40502	1.413	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	4.78	135	826	0.064	ng	# 42
10) Ethanol	6.31	45	47818	3.130	ng	99
12) Acrolein	6.79	56	1048	0.112	ng	95
13) Acetone	7.00	58	44550	3.704	ng	# 1
14) Trichlorofluoromethane	7.24	101	18739	0.702	ng	100
15) 2-Propanol (Isopropanol)	7.48	45	104824	2.205	ng	95
19) Methylene Chloride	8.43	84	2994	0.239	ng	96
21) Trichlorotrifluoroethane	8.87	151	3251	0.284	ng	89
23) trans-1,2-Dichloroethene	9.72	61	1767	0.089	ng	87
27) 2-Butanone (MEK)	10.49	72	4273	0.509	ng	# 79
28) cis-1,2-Dichloroethene	11.00	61	9047	0.453	ng	98
30) Ethyl Acetate	11.30	61	670323	111.718	ng	97
31) n-Hexane	11.29	57	24098	0.891	ng	91
32) Chloroform	11.35	83	20624	0.879	ng	100
34) Tetrahydrofuran (THF)	11.77	72	8884	1.102	ng	# 90
38) 1,1,1-Trichloroethane	12.43	97	5238	0.229	ng	96
41) Benzene	12.91	78	42716	0.827	ng	97
42) Carbon Tetrachloride	13.07	117	9028	0.454	ng	98
43) Cyclohexane	13.20	84	5627	0.284	ng	97
47) Trichloroethene	14.01	130	22665	1.539	ng	97
51) n-Heptane	14.35	71	9821	0.728	ng	99
58) Toluene	15.87	91	464366	8.033	ng	99
62) n-Butyl Acetate	16.75	43	12914	0.266	ng	95
63) n-Octane	16.88	57	3932	0.271	ng	96
64) Tetrachloroethene	17.02	166	892114	54.186	ng	100
66) Ethylbenzene	18.03	91	64601	0.982	ng	98
67) m- & p-Xylenes	18.19	91	200780	3.798	ng	99
69) Styrene	18.53	104	2603	0.069	ng	94
70) o-Xylene	18.62	91	65913	1.236	ng	99
71) n-Nonane	18.82	43	6980	0.170	ng	93
74) Cumene	19.15	105	3395	0.050	ng	98
75) alpha-Pinene	19.50	93	3420	0.107	ng	98
76) n-Propylbenzene	19.60	91	14805	0.183	ng	92
78) 4-Ethyltoluene	19.73	105	17079	0.262	ng	100
79) 1,3,5-Trimethylbenzene	19.79	105	11430	0.207	ng	98
82) 1,2,4-Trimethylbenzene	20.16	105	46771	0.820	ng	89
91) d-Limonene	20.66	68	7038	0.332	ng	90
95) Naphthalene	22.28	128	5806	0.081	ng	92

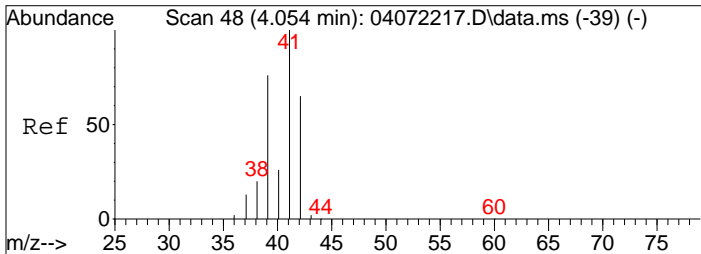
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS09\DATA\2022 04\14\04142219.D
Acq On : 14 Apr 2022 16:40
Sample : P2201602-002 (1000mL)
Misc : S35-04132201

Vial: 4
Operator: SC
Inst : MS09

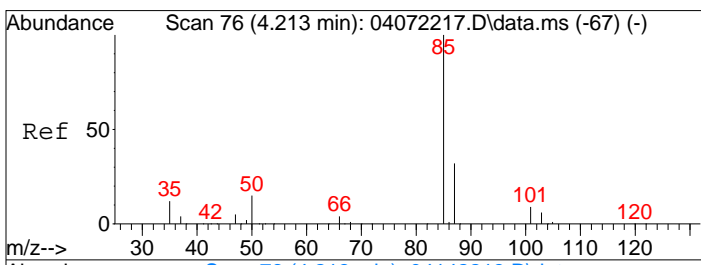
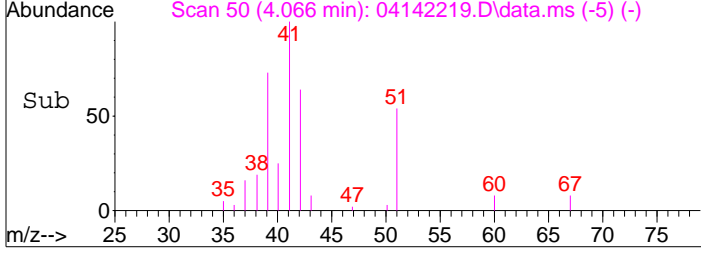
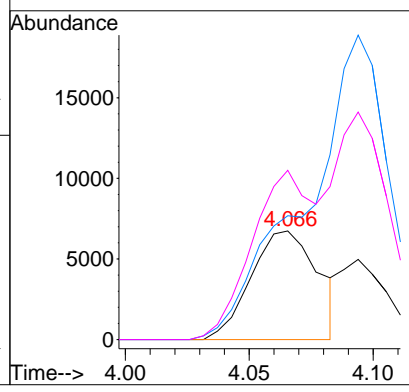
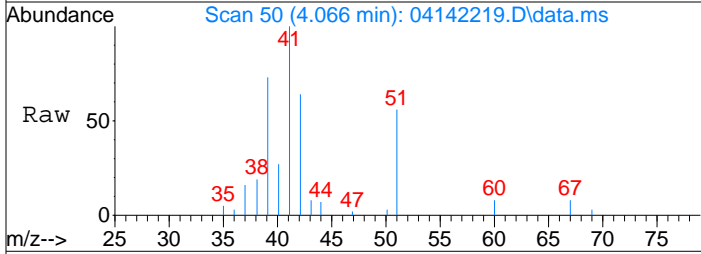
Quant Time: Apr 14 17:05:55 2022
Quant Method : I:\MS09\Methods\R9040722.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Apr 07 16:31:14 2022
Response via : Initial Calibration
DataAcq Meth:TO15.M





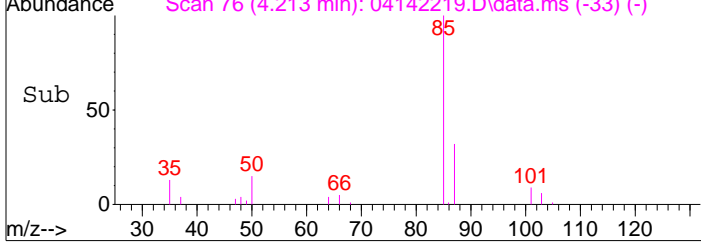
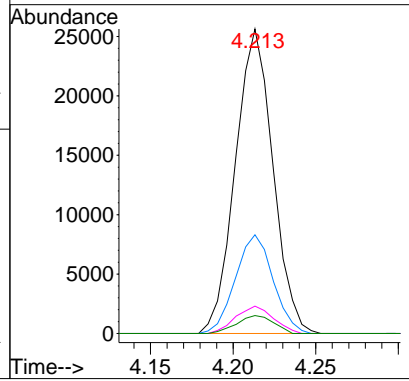
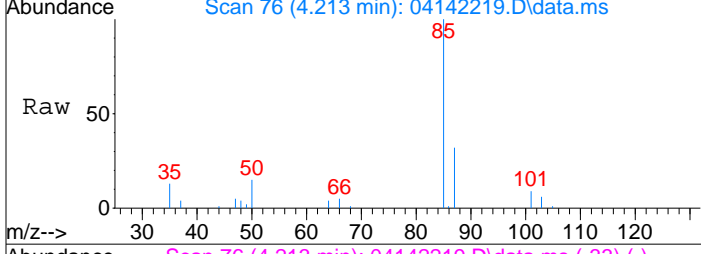
#2
 Propene
 Concen: 0.61 ng
 RT: 4.07 min Scan# 50
 Delta R.T. 0.006 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

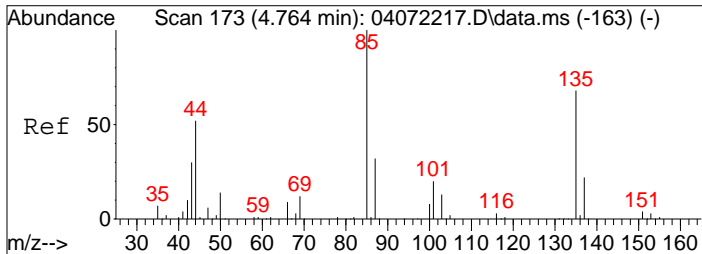
Tgt Ion	Resp	Lower	Upper
42	12689		
42	100		
39	0.0	96.7	136.7#
41	143.4	132.4	172.4



#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.41 ng
 RT: 4.21 min Scan# 76
 Delta R.T. -0.006 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

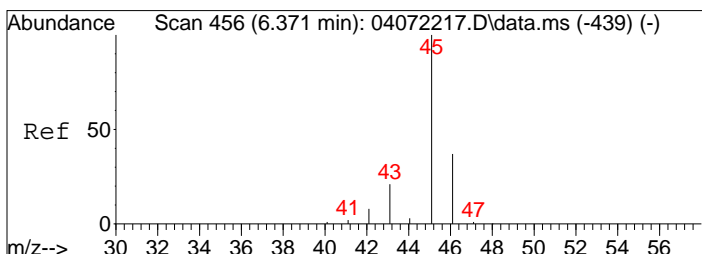
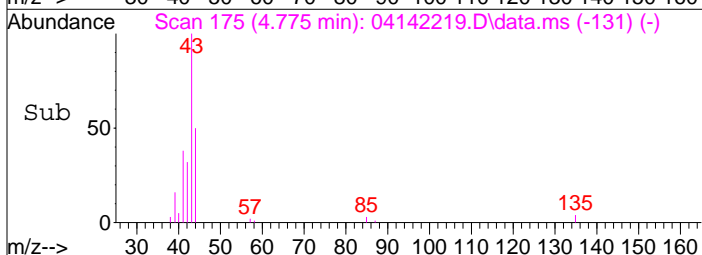
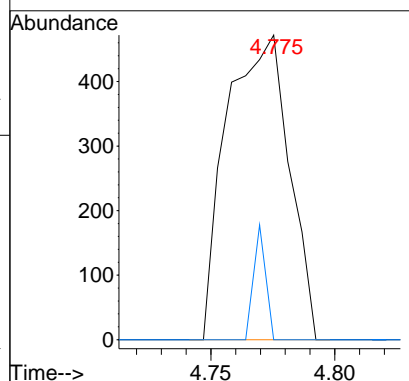
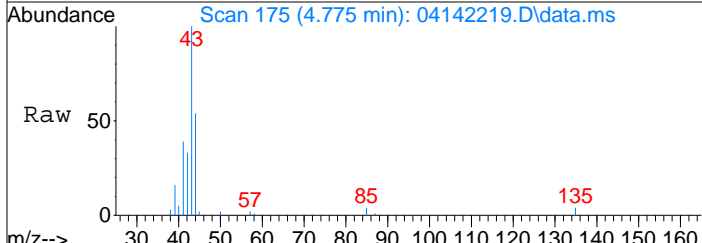
Tgt Ion	Resp	Lower	Upper
85	40502		
85	100		
87	32.5	12.2	52.2
101	9.0	0.0	29.3
103	5.8	0.0	26.0





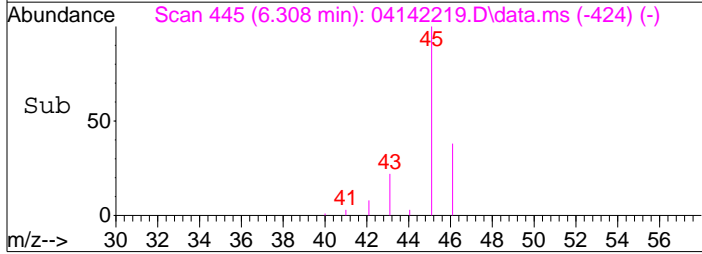
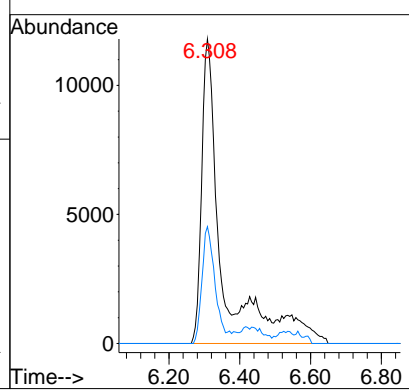
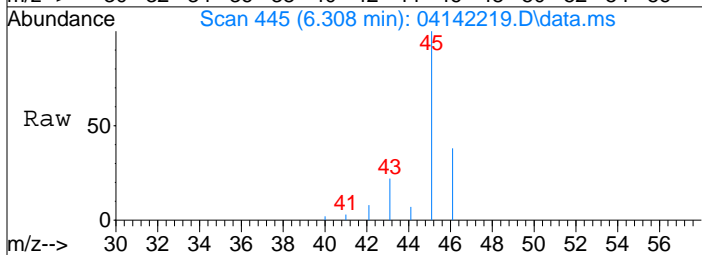
#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.06 ng
 RT: 4.78 min Scan# 175
 Delta R.T. 0.000 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

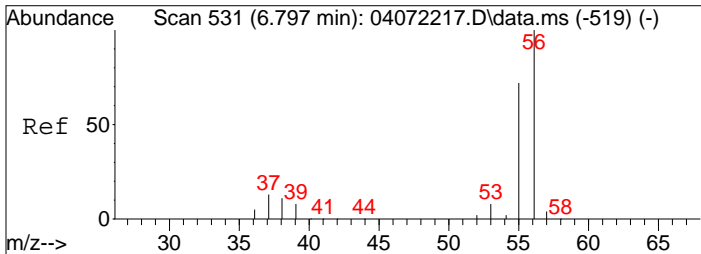
Tgt Ion	Resp	Lower	Upper
135	100		
137	0.0	12.6	52.6#



#10
 Ethanol
 Concen: 3.13 ng
 RT: 6.31 min Scan# 445
 Delta R.T. -0.131 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

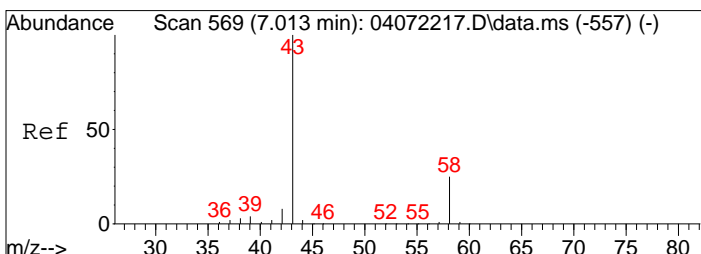
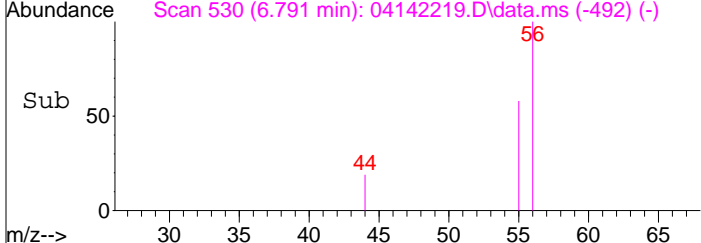
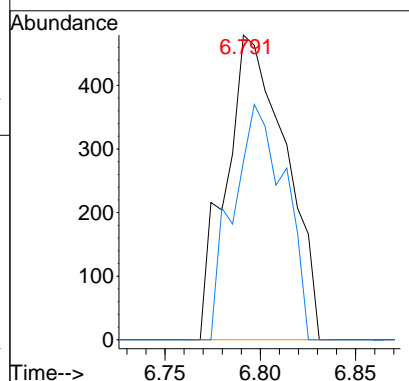
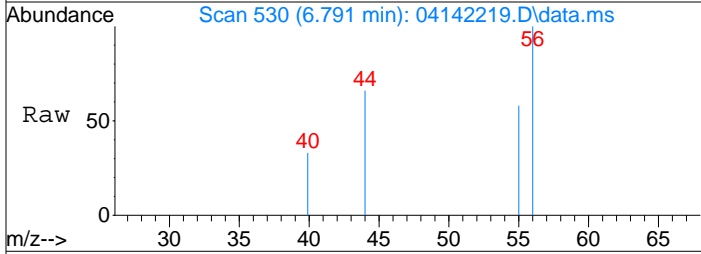
Tgt Ion	Resp	Lower	Upper
45	100		
46	36.3	16.7	56.7





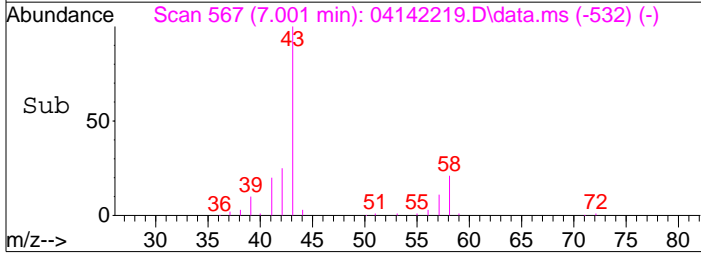
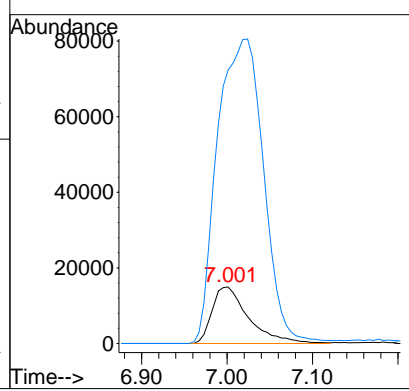
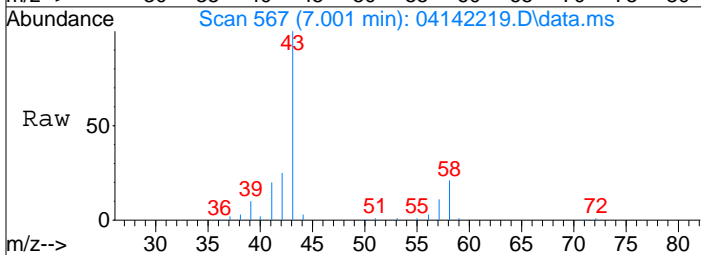
#12
 Acrolein
 Concen: 0.11 ng
 RT: 6.79 min Scan# 530
 Delta R.T. -0.034 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

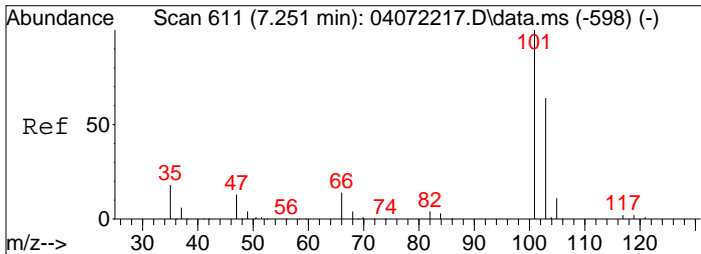
Tgt Ion	Resp	Lower	Upper
56	1048		
55	66.8	51.3	91.3



#13
 Acetone
 Concen: 3.70 ng
 RT: 7.00 min Scan# 567
 Delta R.T. -0.051 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

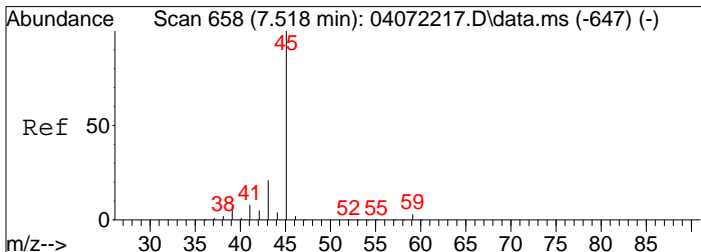
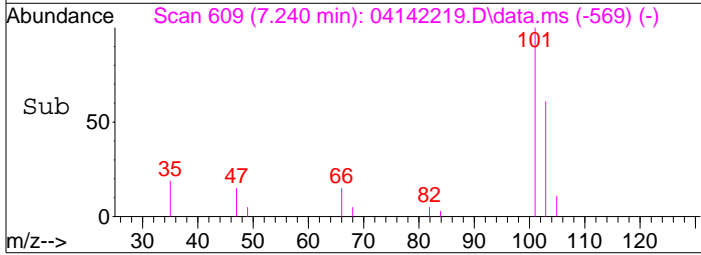
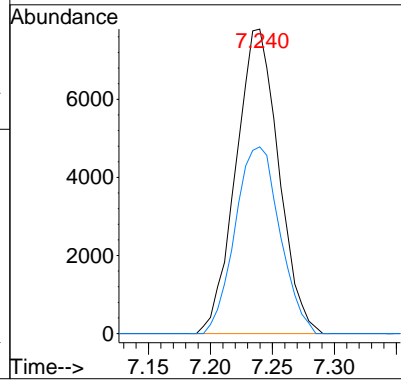
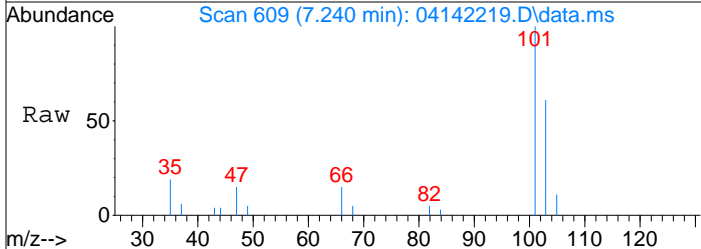
Tgt Ion	Resp	Lower	Upper
58	44550		
58	100		
43	681.8	370.7	430.7#





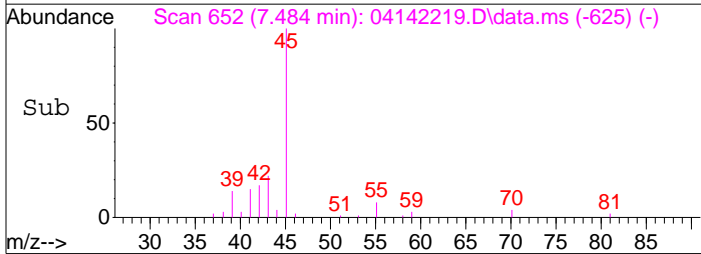
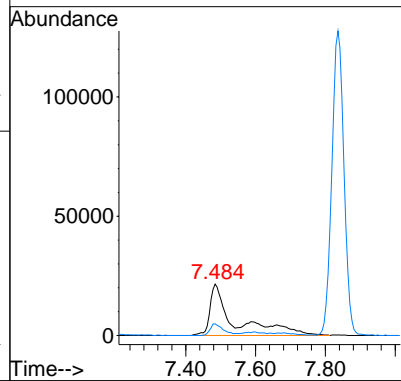
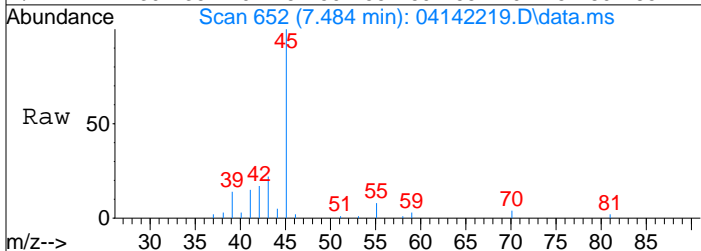
#14
 Trichlorofluoromethane
 Concen: 0.70 ng
 RT: 7.24 min Scan# 609
 Delta R.T. -0.023 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

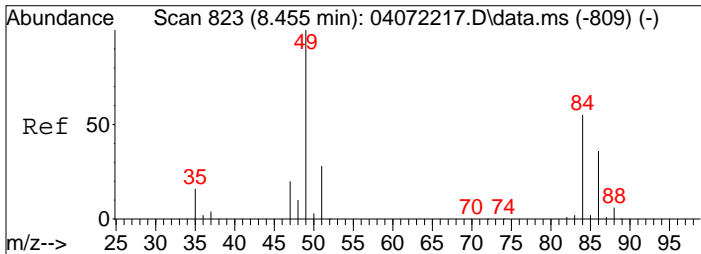
Tgt Ion	Resp	Lower	Upper
101	18739		
103	64.1	43.8	83.8



#15
 2-Propanol (Isopropanol)
 Concen: 2.21 ng
 RT: 7.48 min Scan# 652
 Delta R.T. -0.096 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

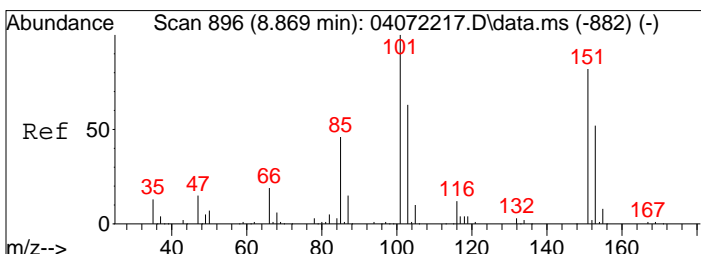
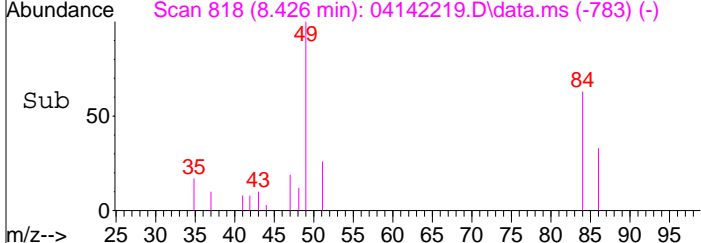
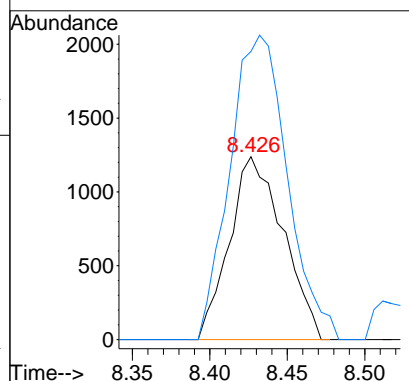
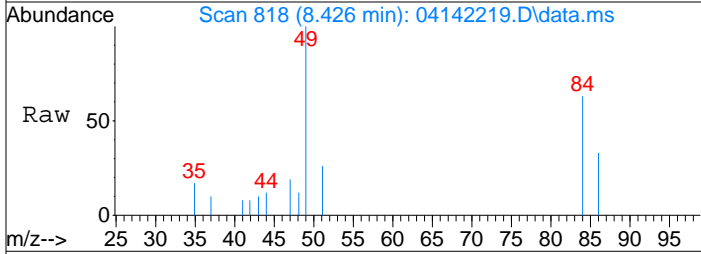
Tgt Ion	Resp	Lower	Upper
45	104824		
43	23.1	0.6	40.6





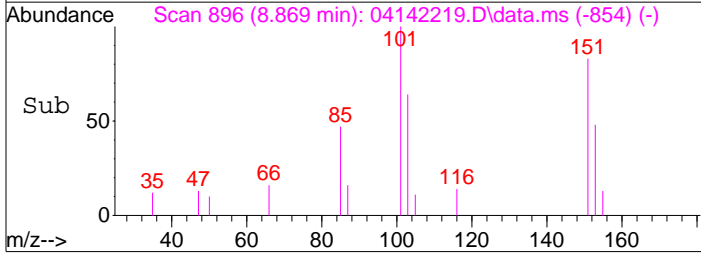
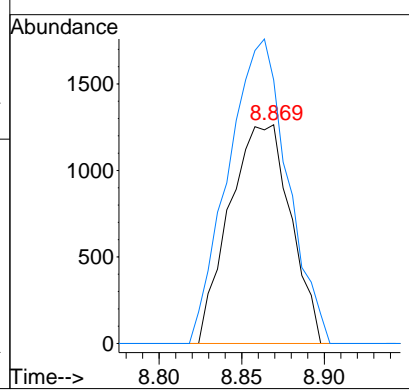
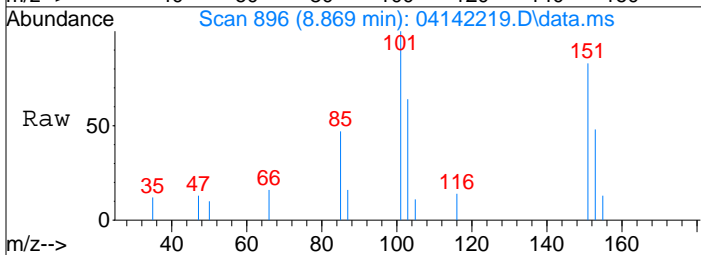
#19
 Methylene Chloride
 Concen: 0.24 ng
 RT: 8.43 min Scan# 818
 Delta R.T. -0.051 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

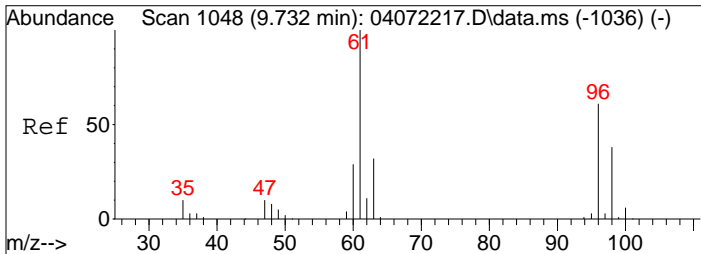
Tgt Ion:	84	Resp:	2994
Ion Ratio	Lower	Upper	
84	100		
49	177.9	159.1	209.1



#21
 Trichlorotrifluoroethane
 Concen: 0.28 ng
 RT: 8.87 min Scan# 896
 Delta R.T. -0.011 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

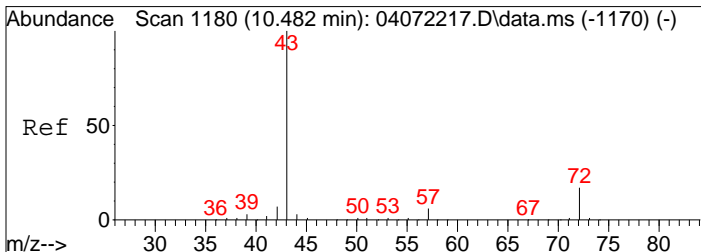
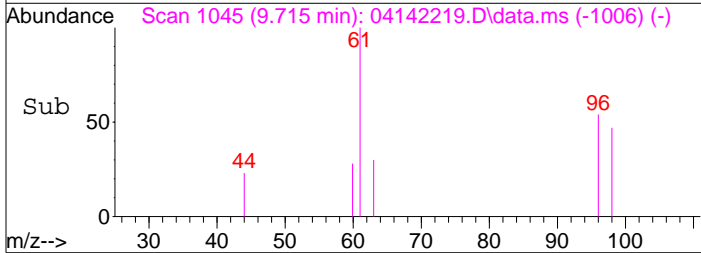
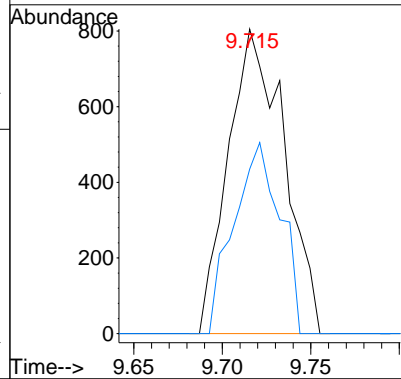
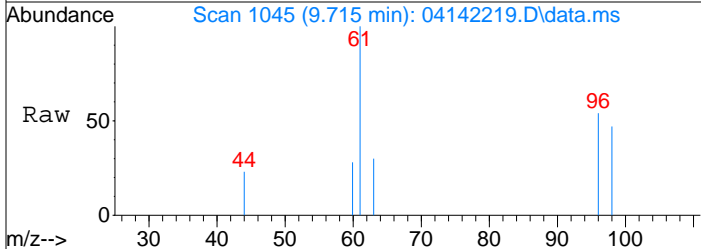
Tgt Ion:	151	Resp:	3251
Ion Ratio	Lower	Upper	
151	100		
101	135.7	103.7	143.7





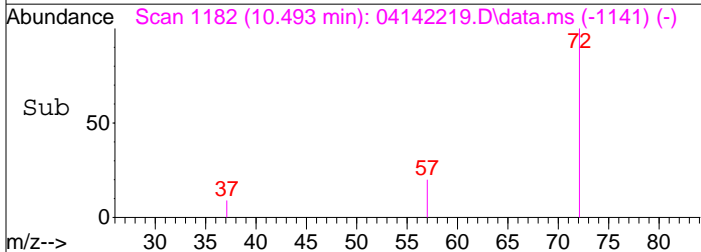
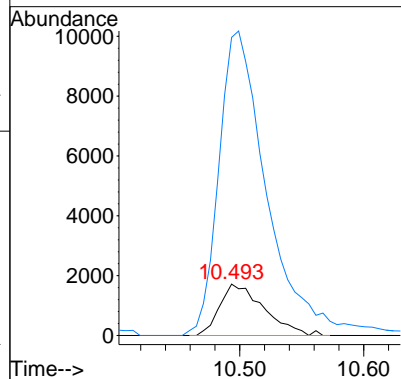
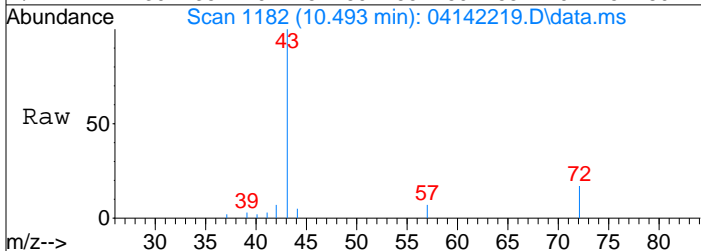
#23
 trans-1,2-Dichloroethene
 Concen: 0.09 ng
 RT: 9.72 min Scan# 1045
 Delta R.T. -0.028 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

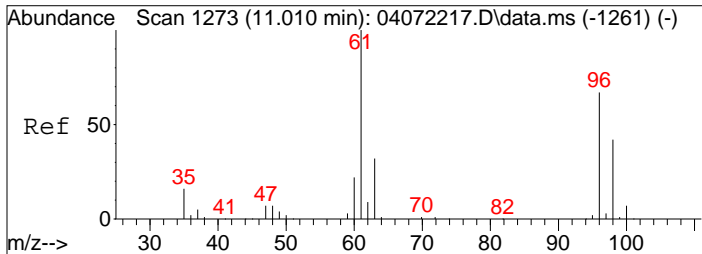
Tgt Ion	Resp	Lower	Upper
61	1767		
96	52.2	42.2	82.2



#27
 2-Butanone (MEK)
 Concen: 0.51 ng
 RT: 10.49 min Scan# 1182
 Delta R.T. -0.017 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

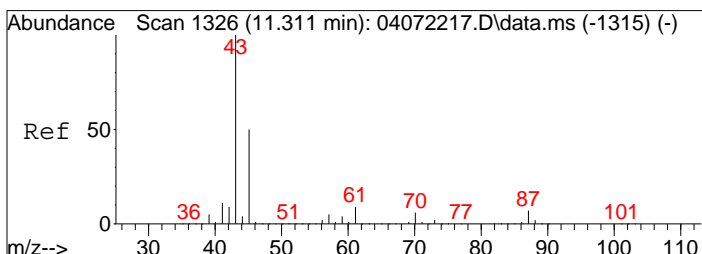
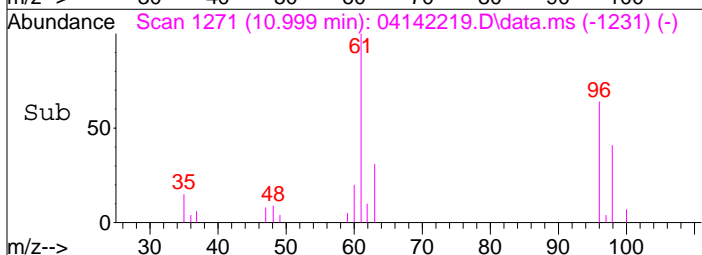
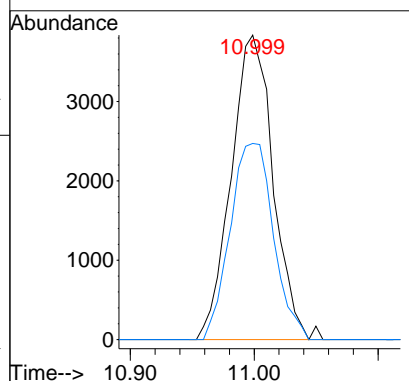
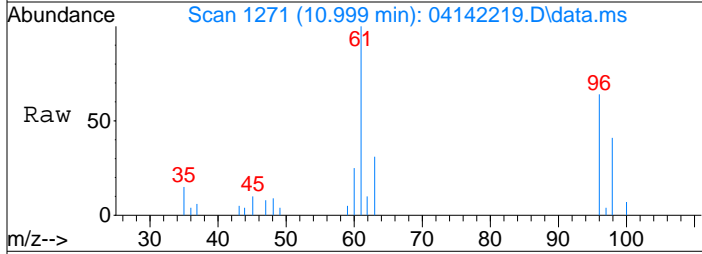
Tgt Ion	Resp	Lower	Upper
72	4273		
43	650.5	565.1	605.1#





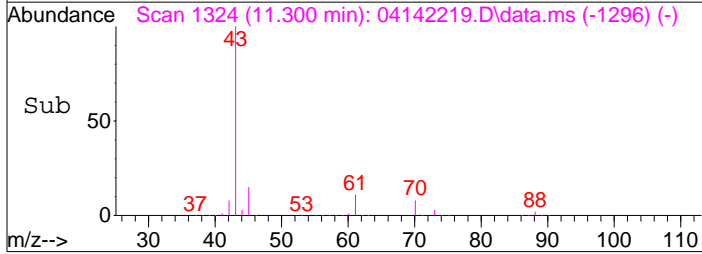
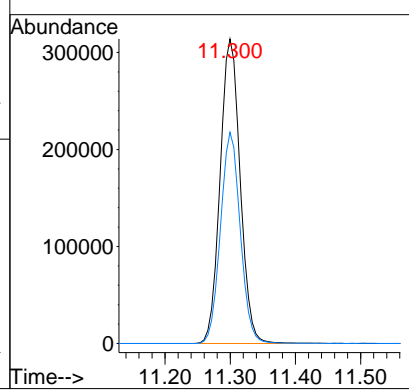
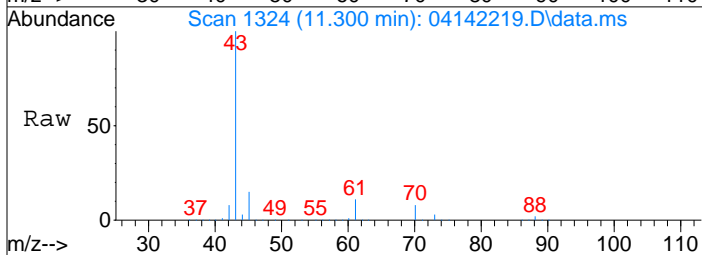
#28
 cis-1,2-Dichloroethene
 Concen: 0.45 ng
 RT: 11.00 min Scan# 1271
 Delta R.T. -0.023 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

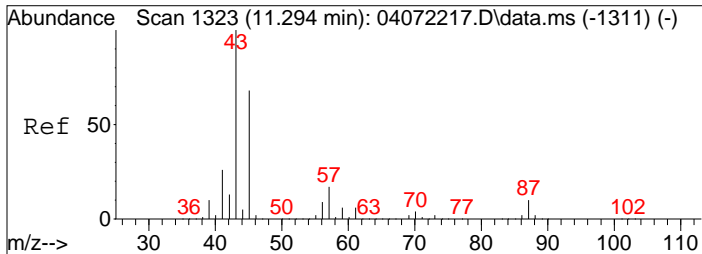
Tgt Ion:	Resp:	Lower	Upper
61	9047		
61	100		
96	66.4	48.2	88.2



#30
 Ethyl Acetate
 Concen: 111.72 ng
 RT: 11.30 min Scan# 1324
 Delta R.T. -0.040 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

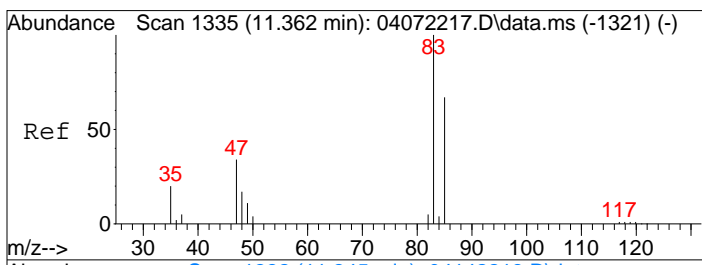
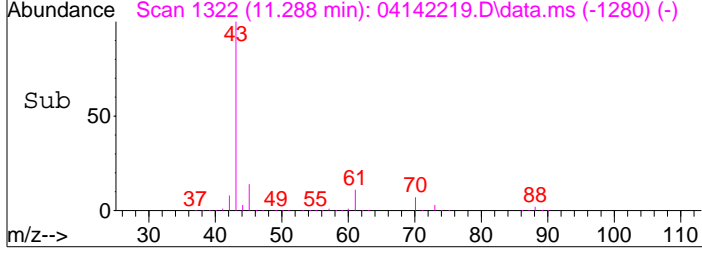
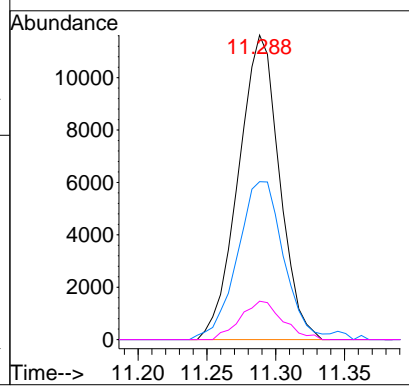
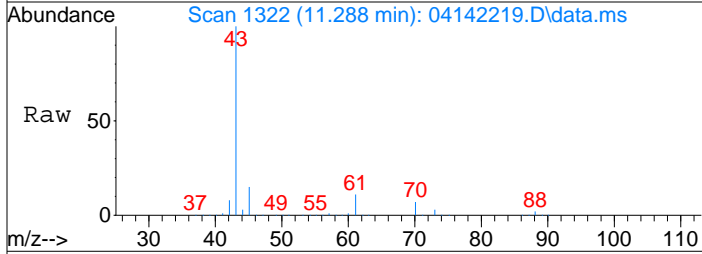
Tgt Ion:	Resp:	Lower	Upper
61	670323		
61	100		
70	68.4	50.8	90.8





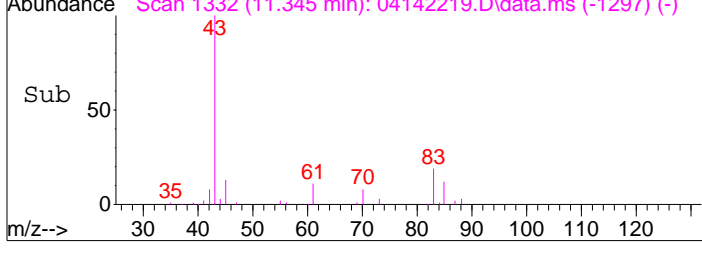
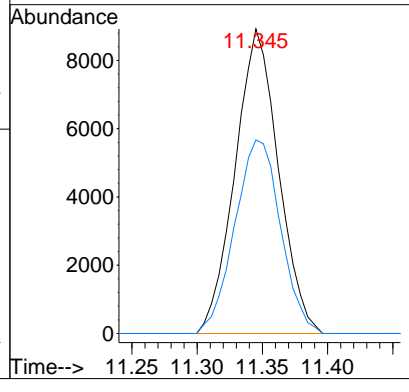
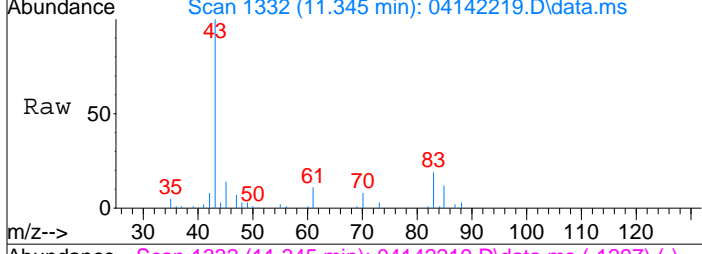
#31
 n-Hexane
 Concen: 0.89 ng
 RT: 11.29 min Scan# 1322
 Delta R.T. -0.011 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

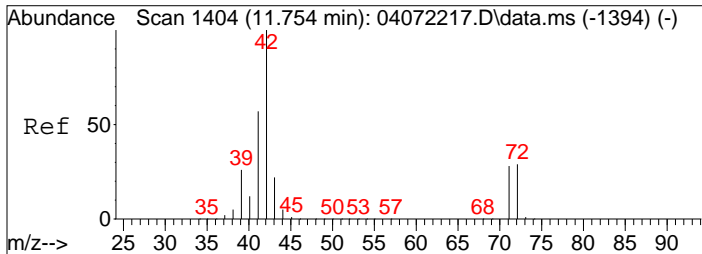
Tgt Ion:	Resp:	Lower	Upper
57	24098		
56	59.5	41.4	62.2
86	13.0	9.9	14.9



#32
 Chloroform
 Concen: 0.88 ng
 RT: 11.35 min Scan# 1332
 Delta R.T. -0.051 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

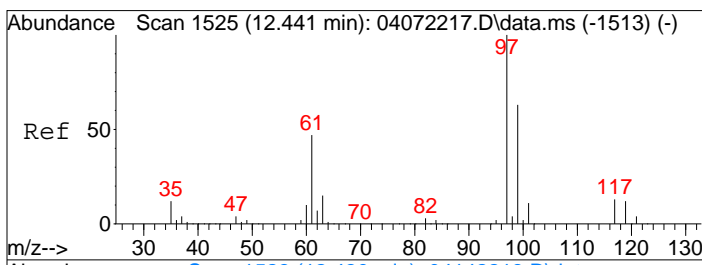
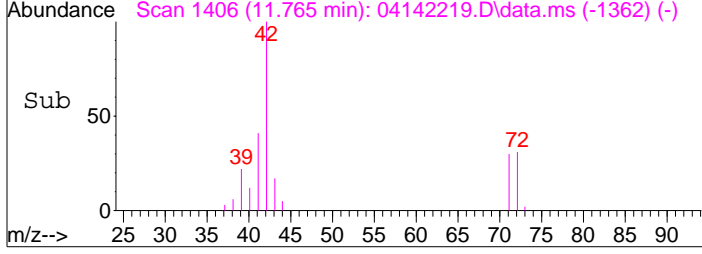
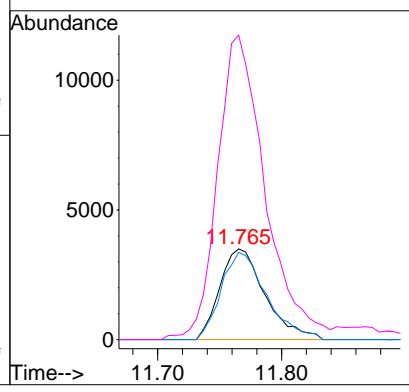
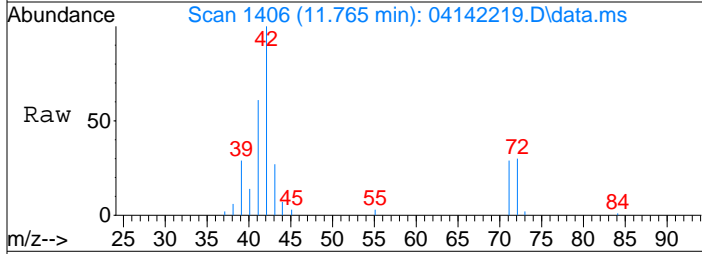
Tgt Ion:	Resp:	Lower	Upper
83	20624		
85	67.1	47.1	87.1





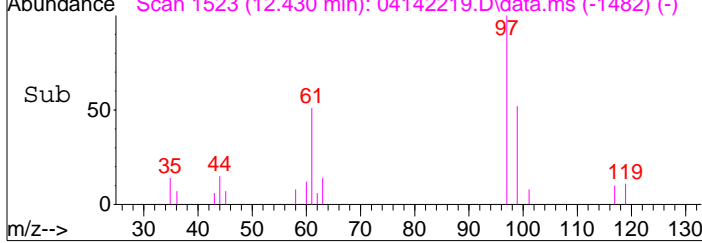
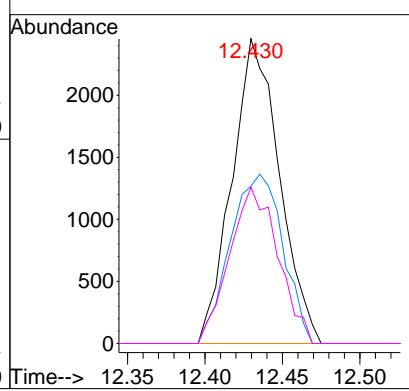
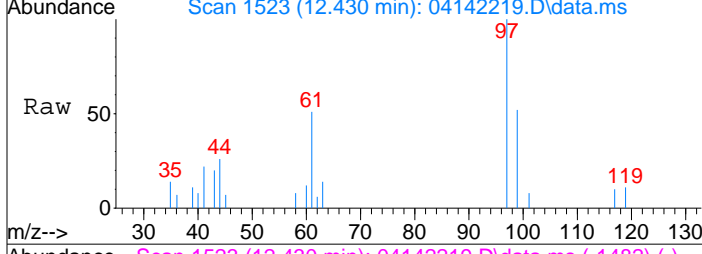
#34
 Tetrahydrofuran (THF)
 Concen: 1.10 ng
 RT: 11.77 min Scan# 1406
 Delta R.T. 0.000 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

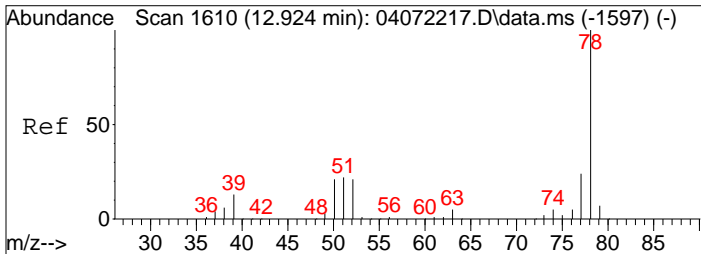
Tgt Ion:	Resp:	Lower	Upper
72	8884		
71	96.4	77.0	117.0
42	372.5	325.1	365.1#



#38
 1,1,1-Trichloroethane
 Concen: 0.23 ng
 RT: 12.43 min Scan# 1523
 Delta R.T. -0.017 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

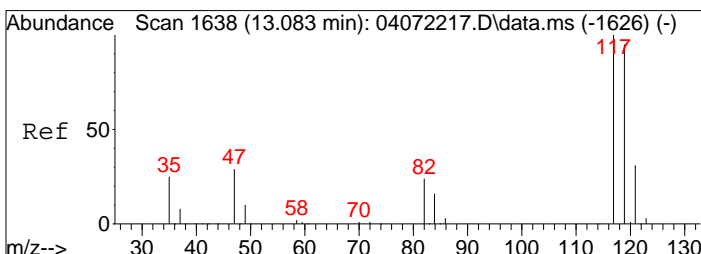
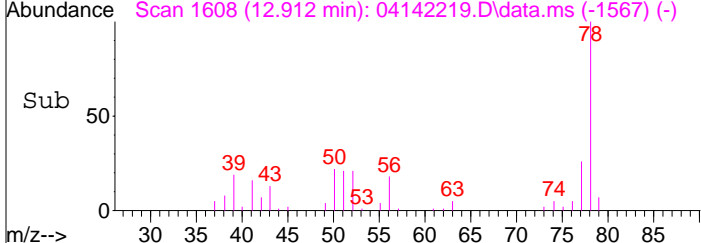
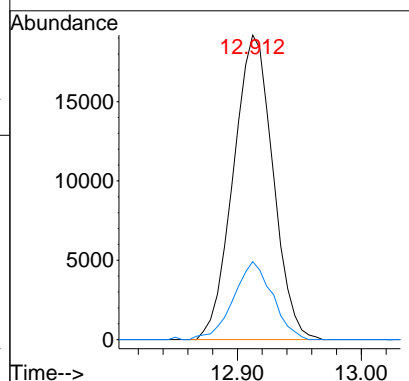
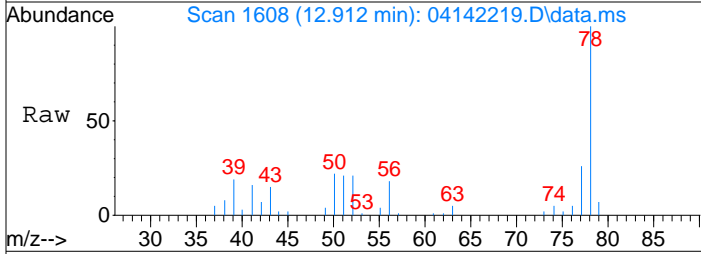
Tgt Ion:	Resp:	Lower	Upper
97	5238		
99	61.6	43.5	83.5
61	52.3	27.7	67.7





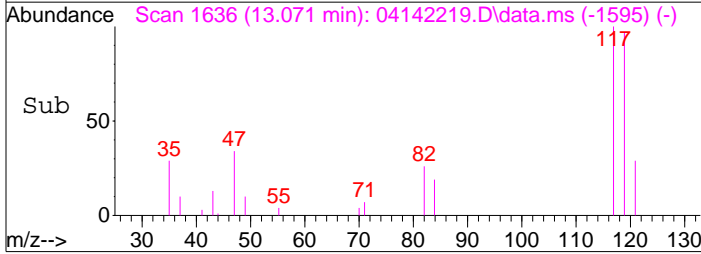
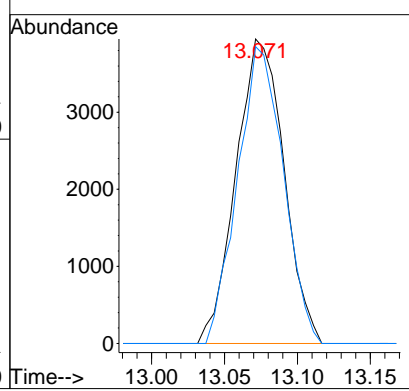
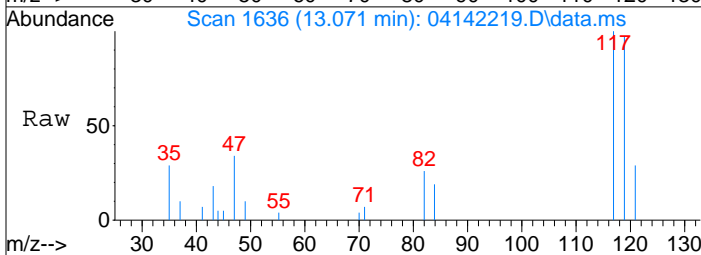
#41
Benzene
Concen: 0.83 ng
RT: 12.91 min Scan# 1608
Delta R.T. -0.017 min
Lab File: 04142219.D
Acq: 14 Apr 2022 16:40

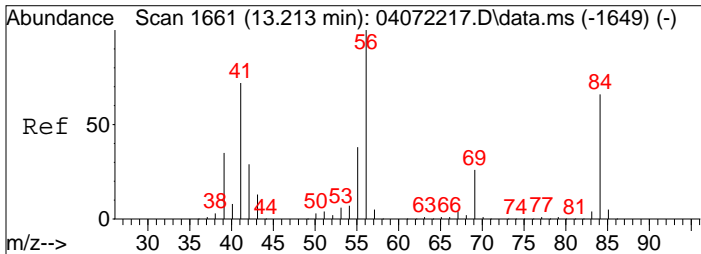
Tgt Ion:	Resp:	Lower	Upper
78	42716		
78	100		
77	25.2	3.9	43.9



#42
Carbon Tetrachloride
Concen: 0.45 ng
RT: 13.07 min Scan# 1636
Delta R.T. -0.017 min
Lab File: 04142219.D
Acq: 14 Apr 2022 16:40

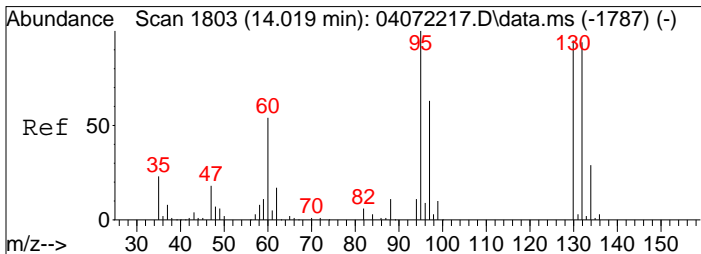
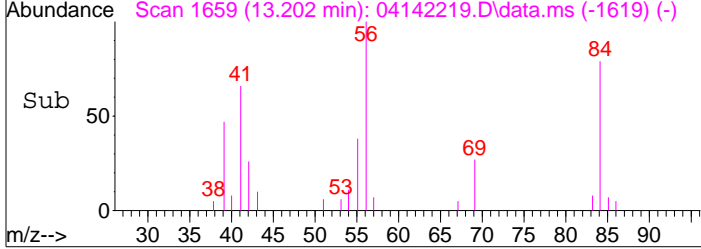
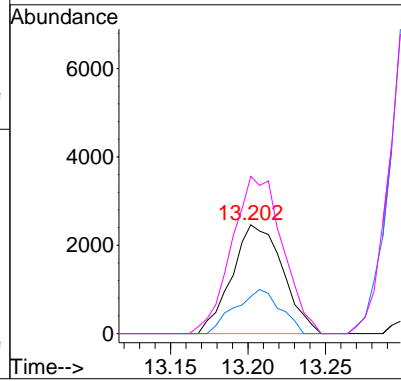
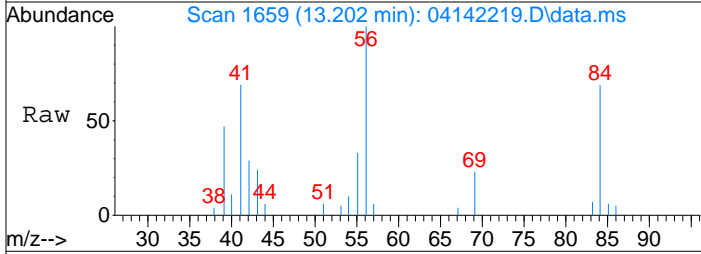
Tgt Ion:	Resp:	Lower	Upper
117	9028		
117	100		
119	93.0	75.0	115.0





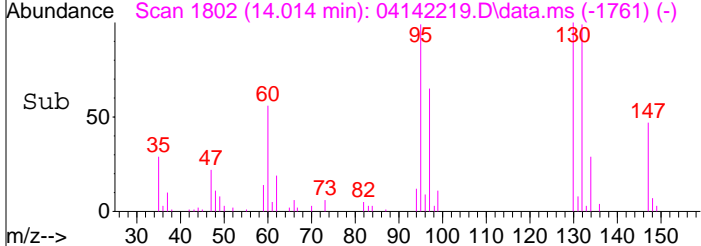
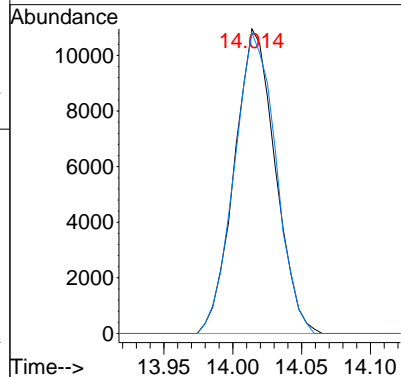
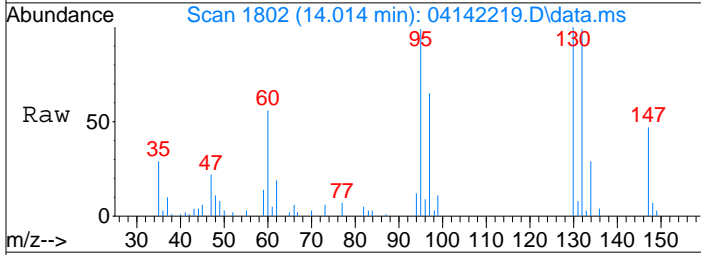
#43
 Cyclohexane
 Concen: 0.28 ng
 RT: 13.20 min Scan# 1659
 Delta R.T. -0.023 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

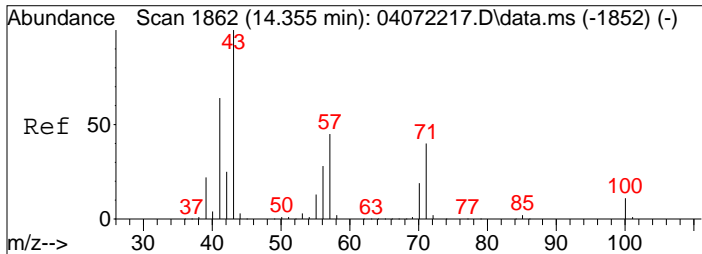
Tgt Ion:	84	Resp:	5627
Ion Ratio	Lower	Upper	
84	100		
69	36.1	18.6	58.6
56	144.8	128.4	168.4



#47
 Trichloroethene
 Concen: 1.54 ng
 RT: 14.01 min Scan# 1802
 Delta R.T. -0.017 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

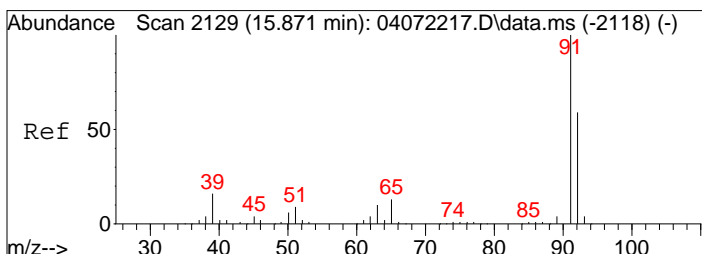
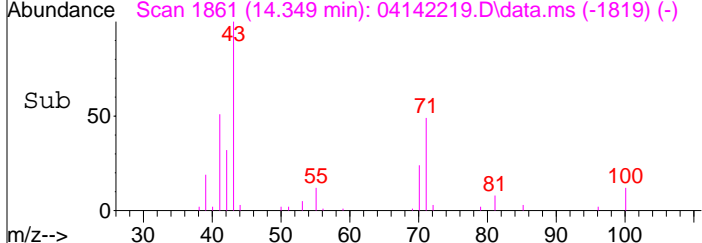
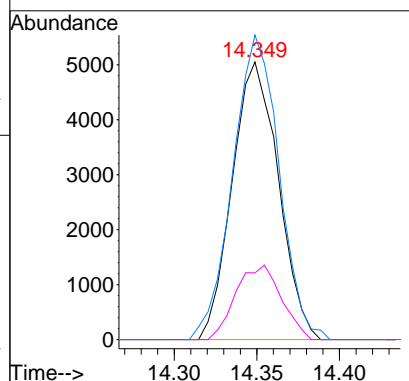
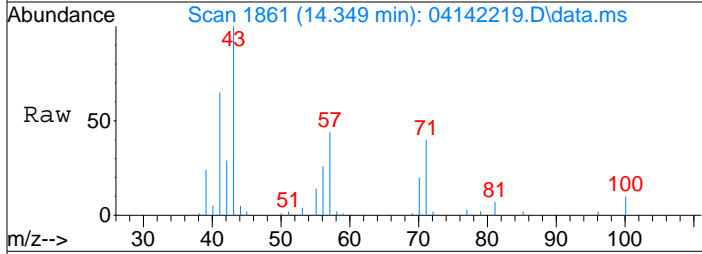
Tgt Ion:	130	Resp:	22665
Ion Ratio	Lower	Upper	
130	100		
132	100.6	77.7	117.7





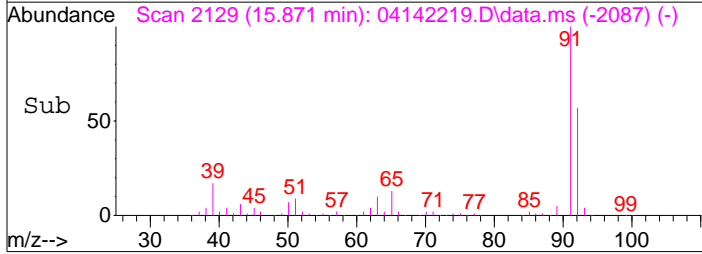
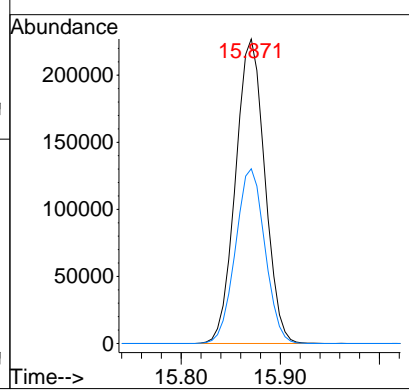
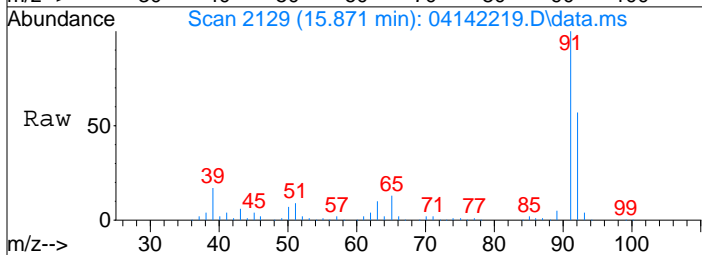
#51
 n-Heptane
 Concen: 0.73 ng
 RT: 14.35 min Scan# 1861
 Delta R.T. -0.011 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

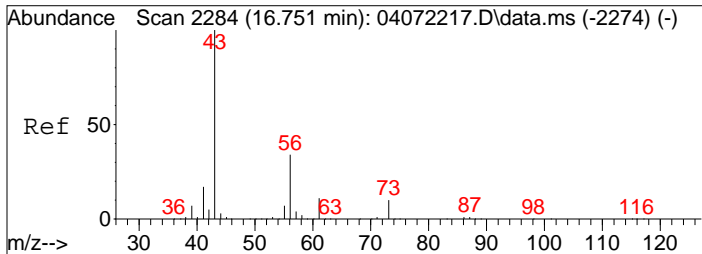
Tgt Ion	Resp	Lower	Upper
71	100		
57	110.1	89.9	129.9
100	26.4	7.5	47.5



#58
 Toluene
 Concen: 8.03 ng
 RT: 15.87 min Scan# 2129
 Delta R.T. -0.011 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

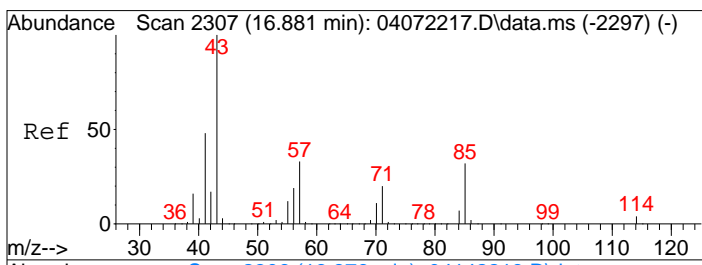
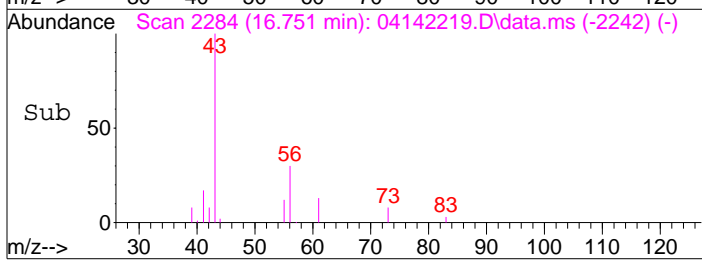
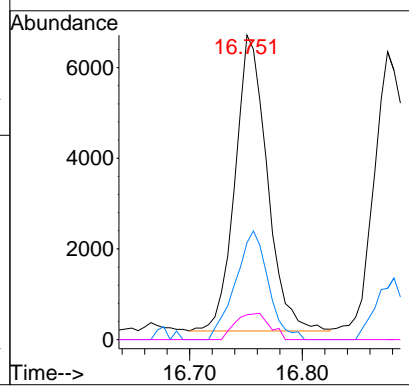
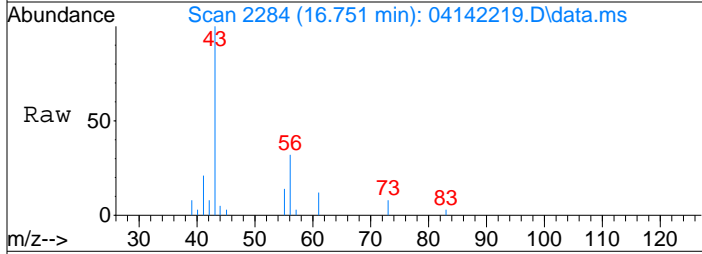
Tgt Ion	Resp	Lower	Upper
91	100		
92	57.9	38.3	78.3





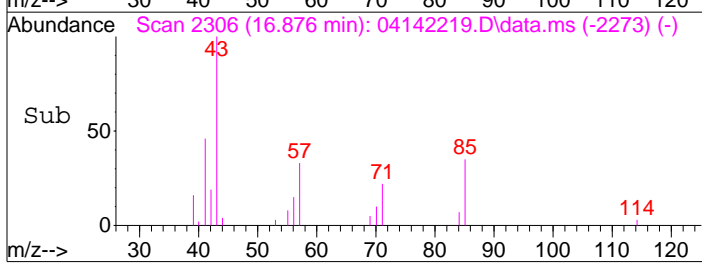
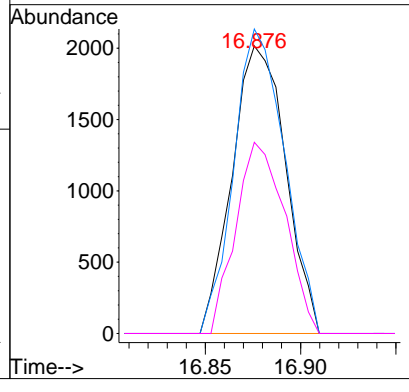
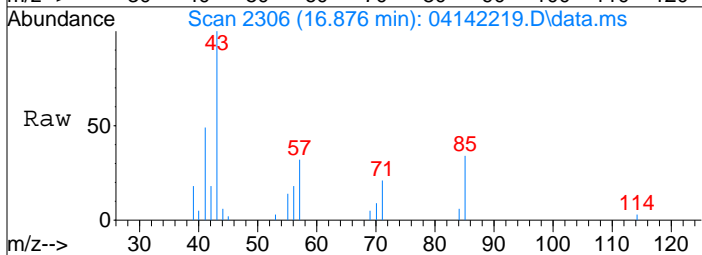
#62
 n-Butyl Acetate
 Concen: 0.27 ng
 RT: 16.75 min Scan# 2284
 Delta R.T. -0.011 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

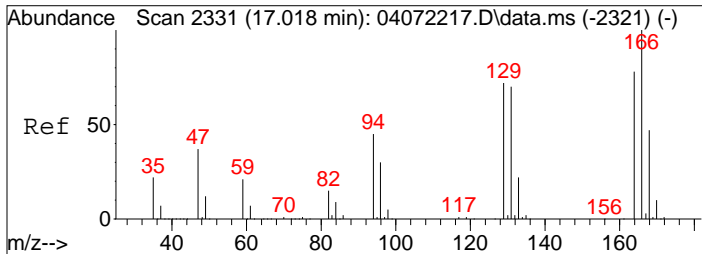
Tgt Ion	Resp	Lower	Upper
43	12914		
56	37.5	13.8	53.8
73	9.4	0.0	29.9



#63
 n-Octane
 Concen: 0.27 ng
 RT: 16.88 min Scan# 2306
 Delta R.T. -0.011 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

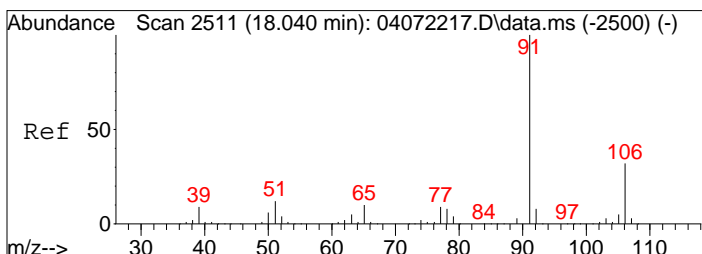
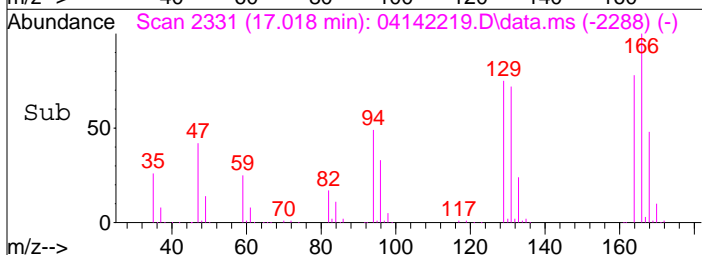
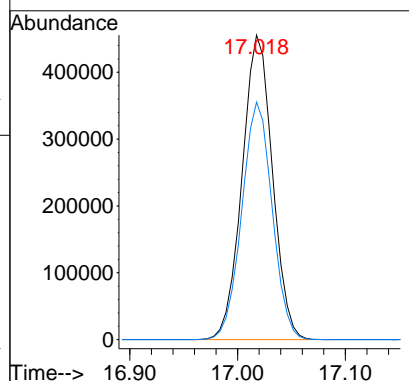
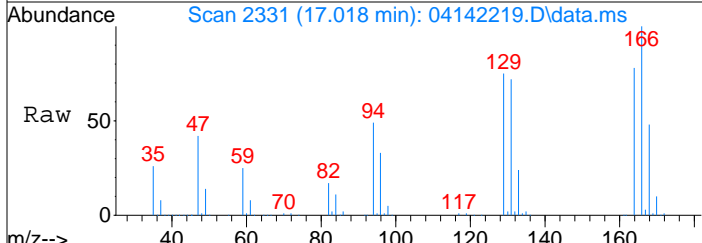
Tgt Ion	Resp	Lower	Upper
57	3932		
85	100.6	77.4	116.0
71	61.2	47.0	70.6





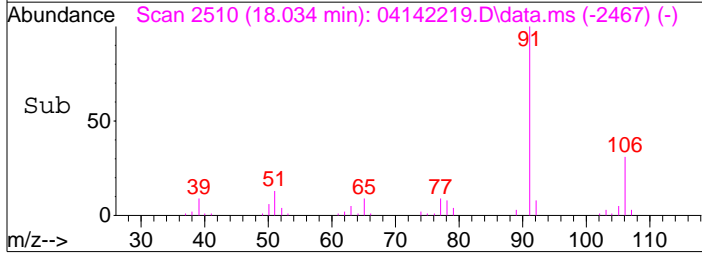
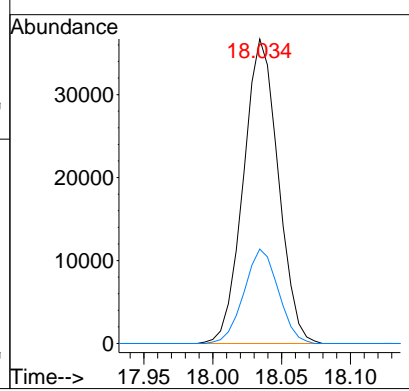
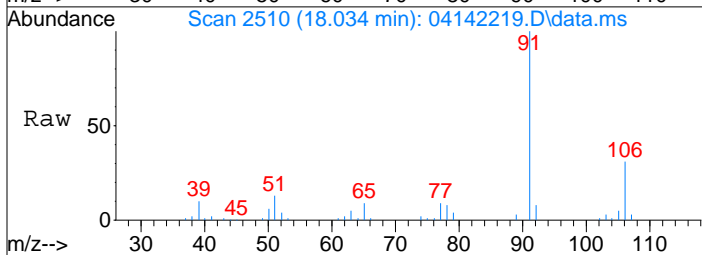
#64
 Tetrachloroethene
 Concen: 54.19 ng
 RT: 17.02 min Scan# 2331
 Delta R.T. -0.006 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

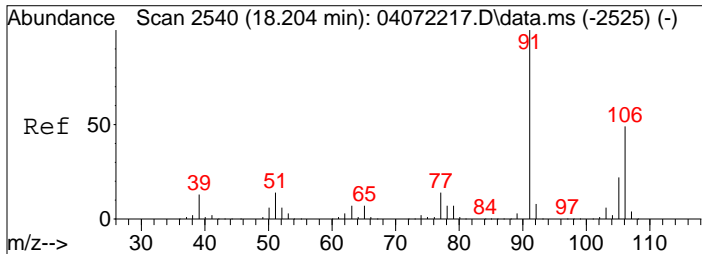
Tgt Ion	Resp	Lower	Upper
166	892114		
166	100		
164	78.0	57.8	97.8



#66
 Ethylbenzene
 Concen: 0.98 ng
 RT: 18.03 min Scan# 2510
 Delta R.T. -0.006 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

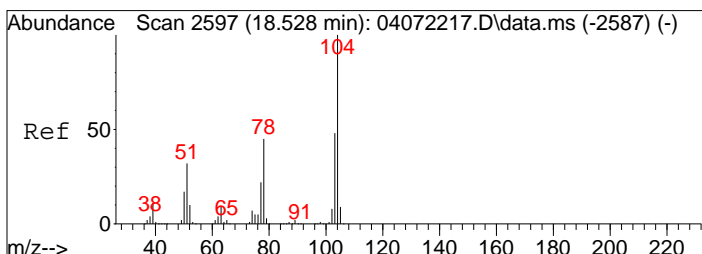
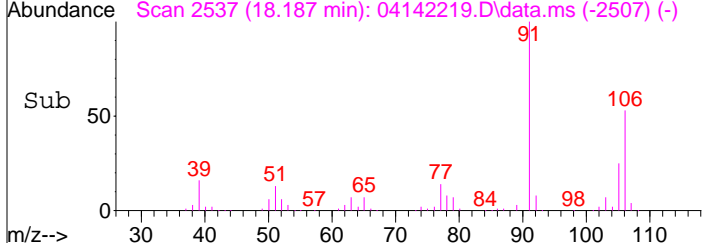
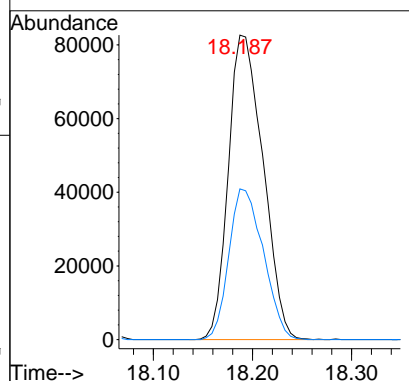
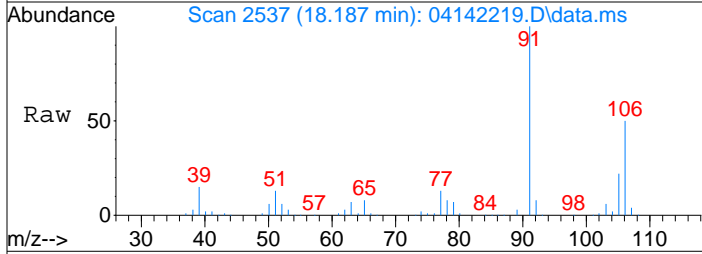
Tgt Ion	Resp	Lower	Upper
91	64601		
91	100		
106	30.6	11.6	51.6





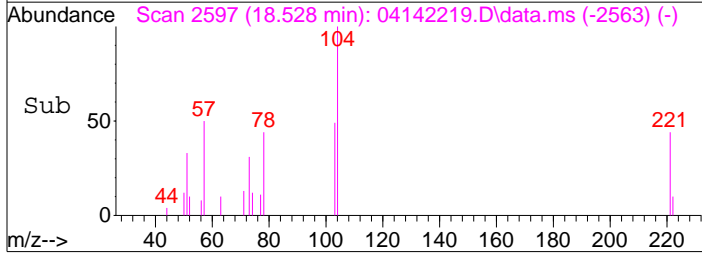
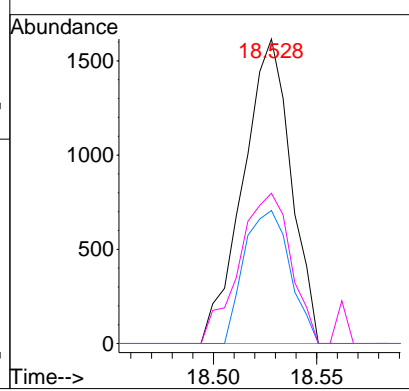
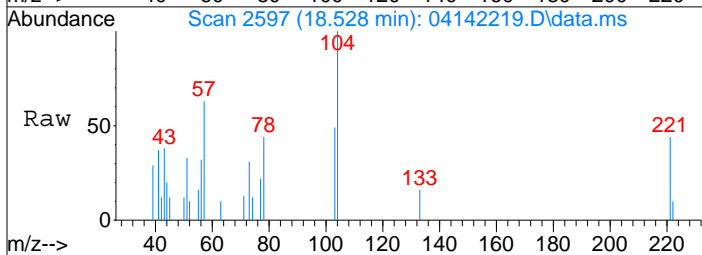
#67
 m- & p-Xylenes
 Concen: 3.80 ng
 RT: 18.19 min Scan# 2537
 Delta R.T. -0.028 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

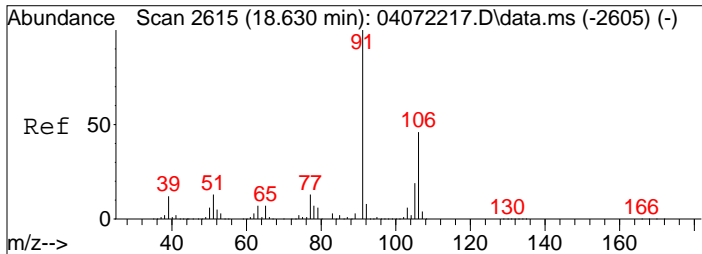
Tgt Ion	Resp	Lower	Upper
91	200780	100	100
106	49.1	28.3	68.3



#69
 Styrene
 Concen: 0.07 ng
 RT: 18.53 min Scan# 2597
 Delta R.T. -0.006 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

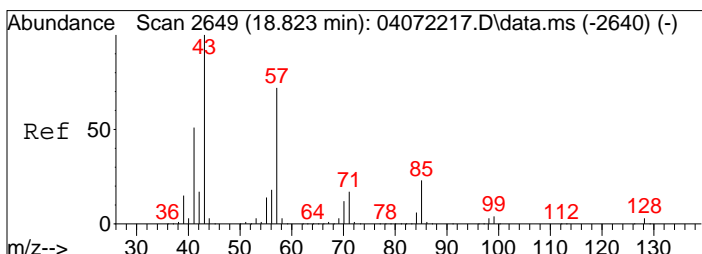
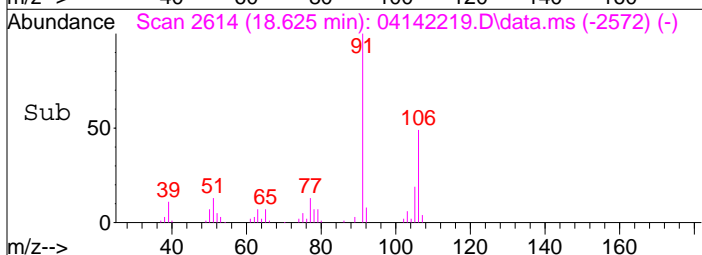
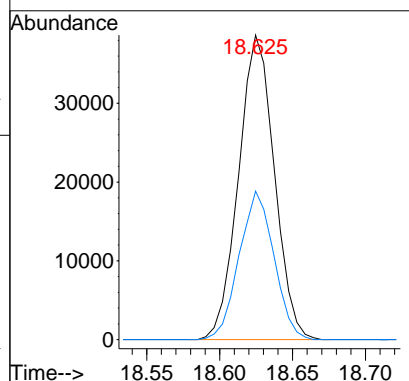
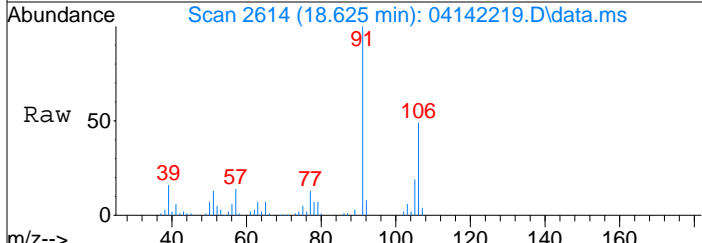
Tgt Ion	Resp	Lower	Upper
104	2603	100	100
78	41.9	24.9	64.9
103	53.6	28.2	68.2





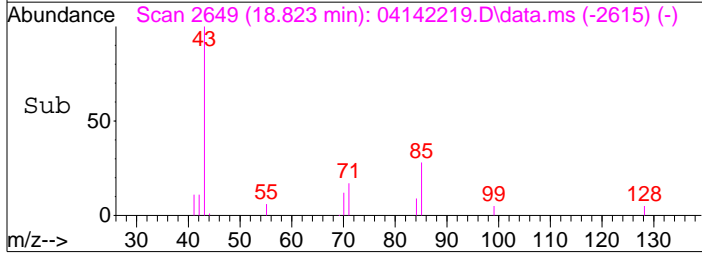
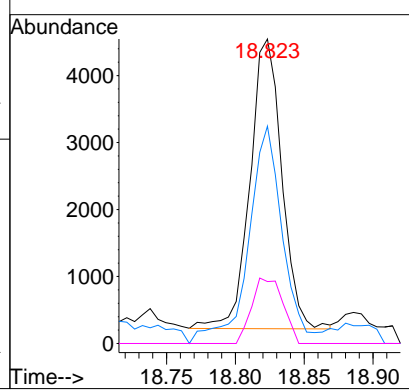
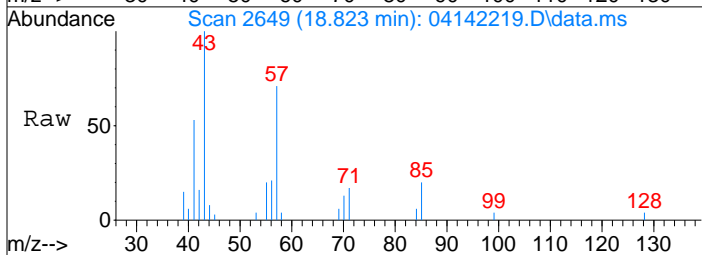
#70
 o-Xylene
 Concen: 1.24 ng
 RT: 18.62 min Scan# 2614
 Delta R.T. -0.011 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

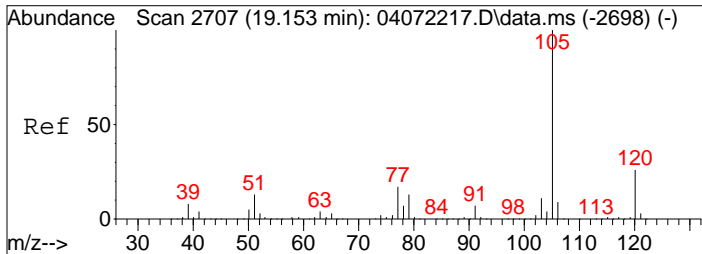
Tgt Ion	Resp	Lower	Upper
91	65913	100	100
106	47.5	26.5	66.5



#71
 n-Nonane
 Concen: 0.17 ng
 RT: 18.82 min Scan# 2649
 Delta R.T. -0.006 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

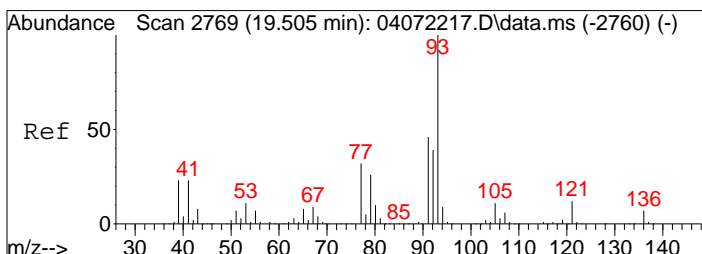
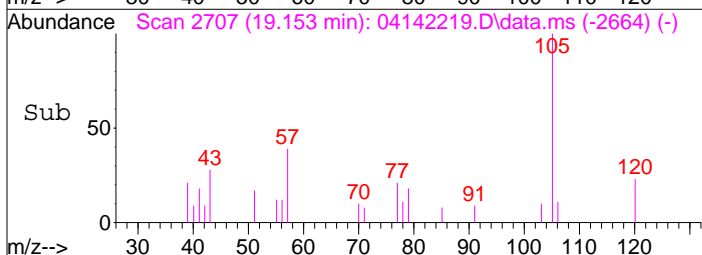
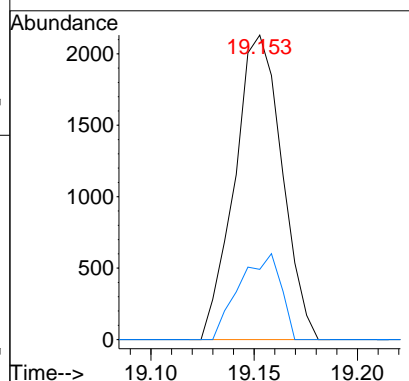
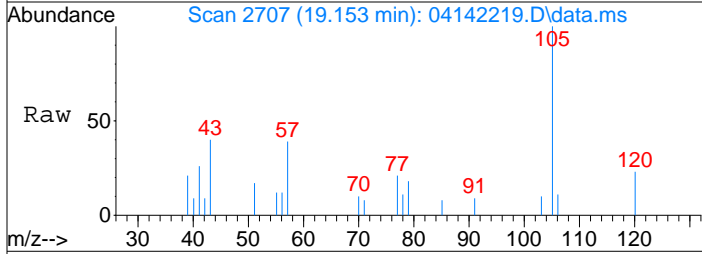
Tgt Ion	Resp	Lower	Upper
43	6980	100	100
57	79.2	52.5	92.5
85	22.0	3.6	43.6





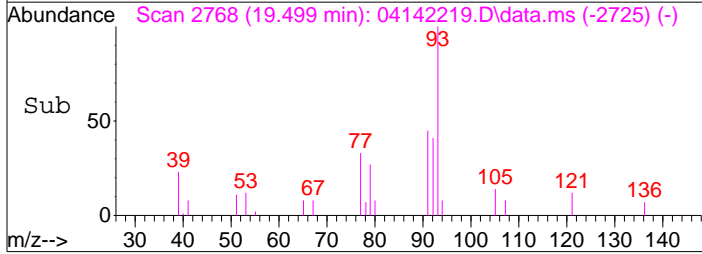
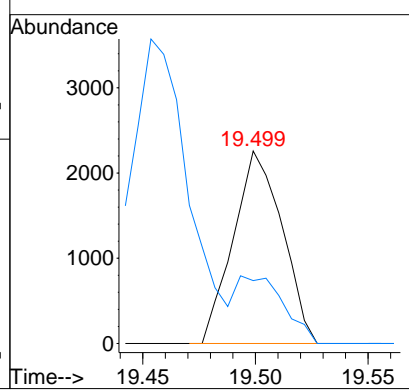
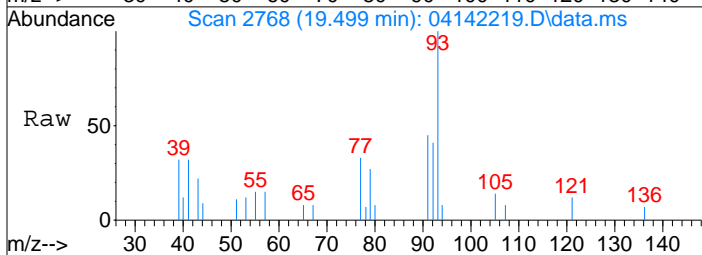
#74
 Cumene
 Concen: 0.05 ng
 RT: 19.15 min Scan# 2707
 Delta R.T. -0.006 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

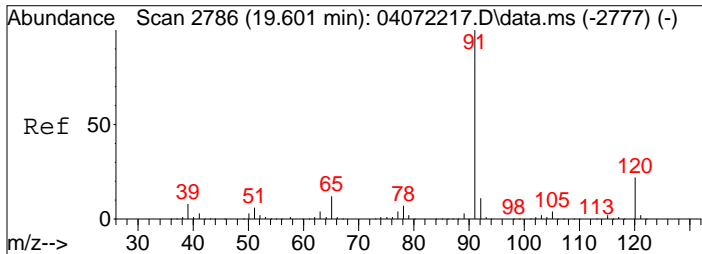
Tgt Ion	Resp	Lower	Upper
105	3395	100	100
120	24.8	5.9	45.9



#75
 alpha-Pinene
 Concen: 0.11 ng
 RT: 19.50 min Scan# 2768
 Delta R.T. -0.006 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

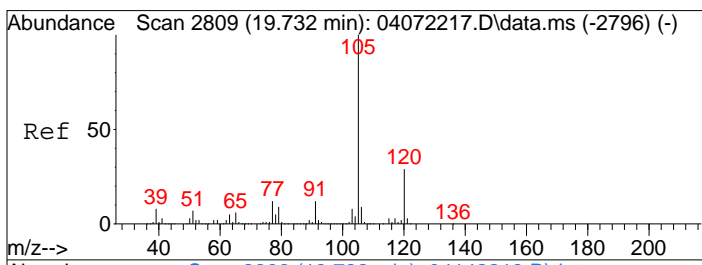
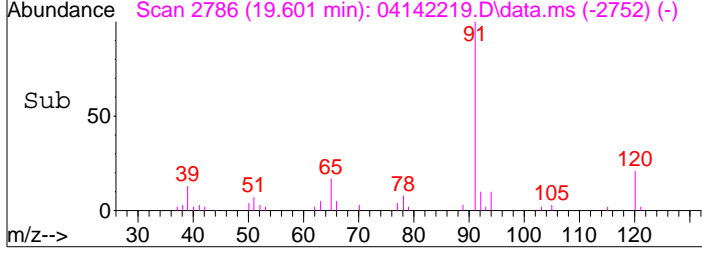
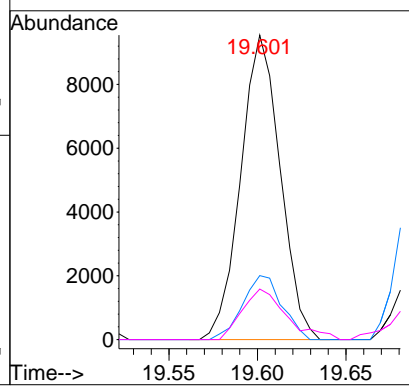
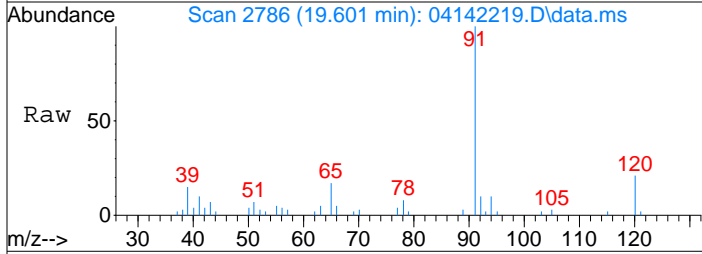
Tgt Ion	Resp	Lower	Upper
93	3420	100	100
77	33.6	12.7	52.7





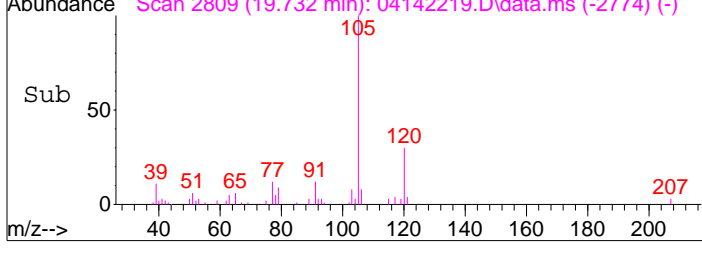
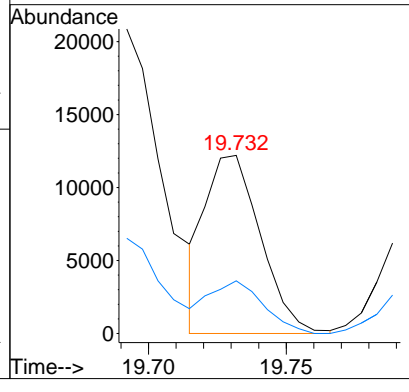
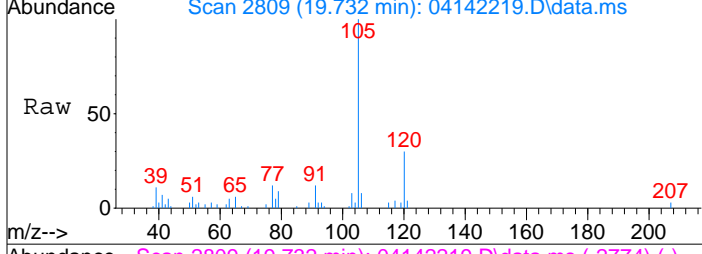
#76
 n-Propylbenzene
 Concen: 0.18 ng
 RT: 19.60 min Scan# 2786
 Delta R.T. -0.006 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

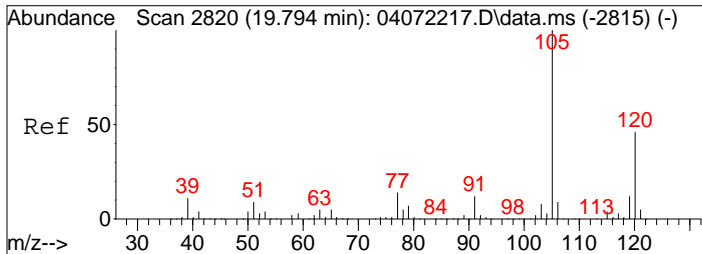
Tgt Ion	Resp	Lower	Upper
91	14805		
120	21.0	2.3	42.3
65	18.5	0.0	31.8



#78
 4-Ethyltoluene
 Concen: 0.26 ng
 RT: 19.73 min Scan# 2809
 Delta R.T. 0.000 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

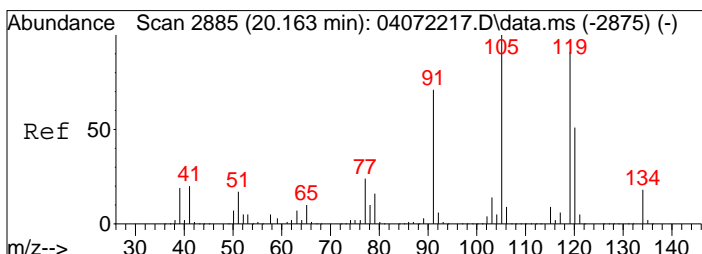
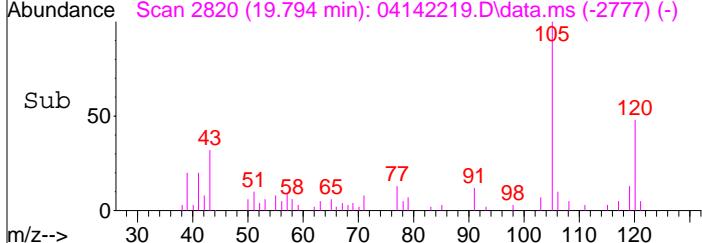
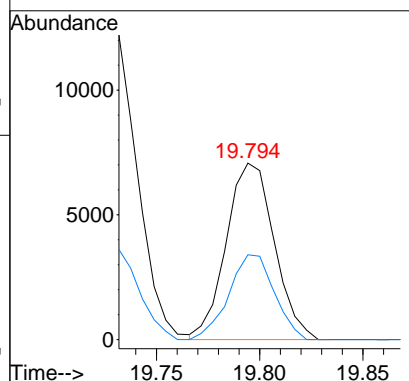
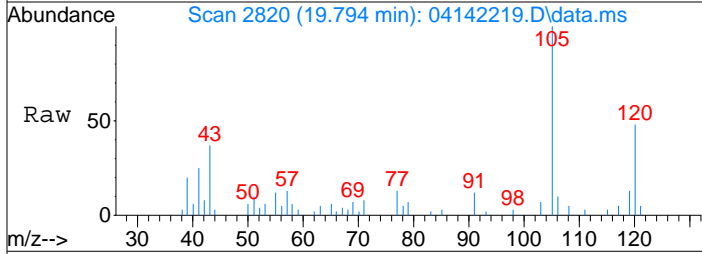
Tgt Ion	Resp	Lower	Upper
105	17079		
120	29.6	9.4	49.4





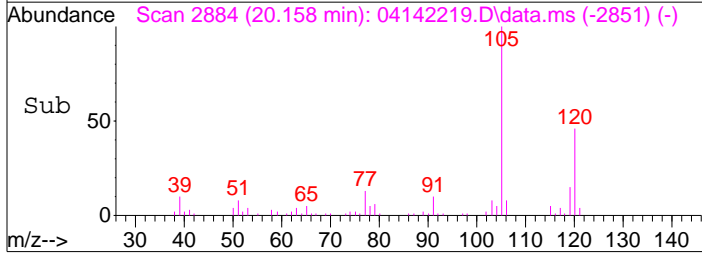
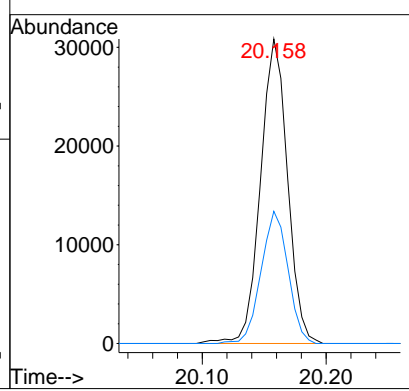
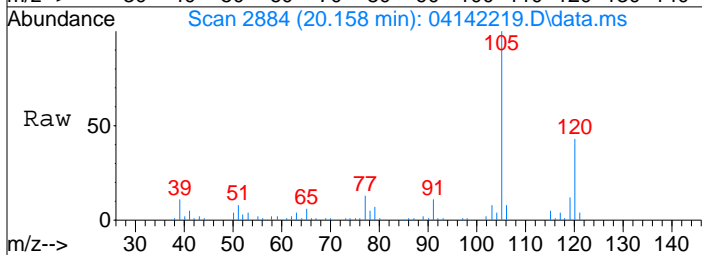
#79
 1,3,5-Trimethylbenzene
 Concen: 0.21 ng
 RT: 19.79 min Scan# 2820
 Delta R.T. -0.006 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

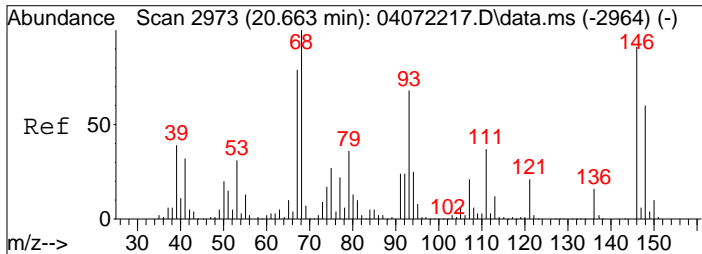
Tgt Ion	Resp	Lower	Upper
105	11430		
120	45.7	27.1	67.1



#82
 1,2,4-Trimethylbenzene
 Concen: 0.82 ng
 RT: 20.16 min Scan# 2884
 Delta R.T. -0.011 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

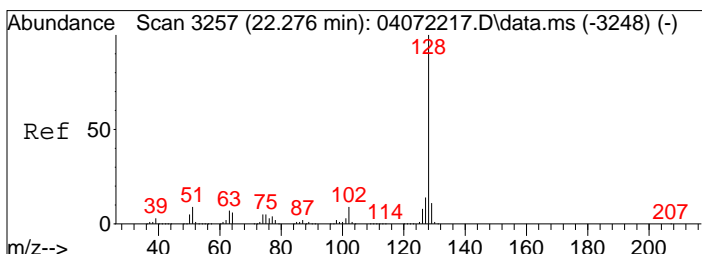
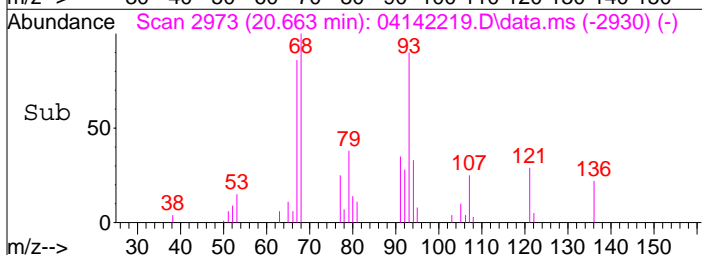
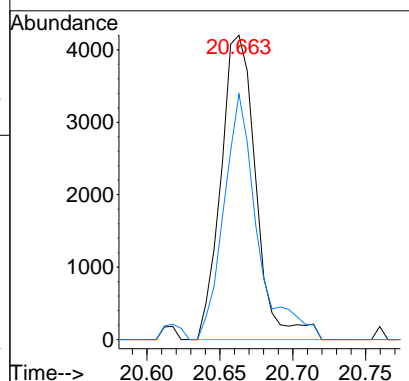
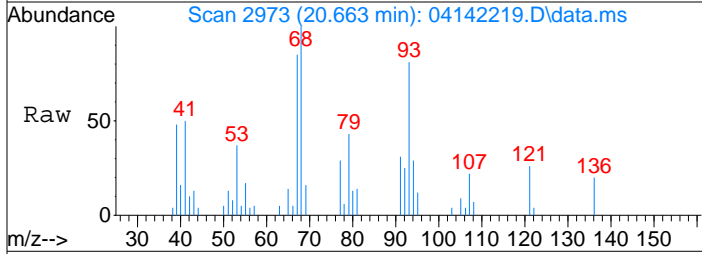
Tgt Ion	Resp	Lower	Upper
105	46771		
120	43.4	31.1	71.1





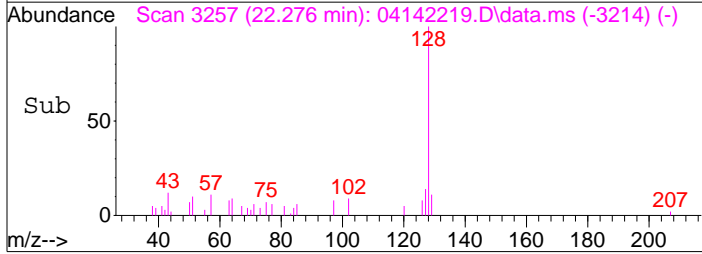
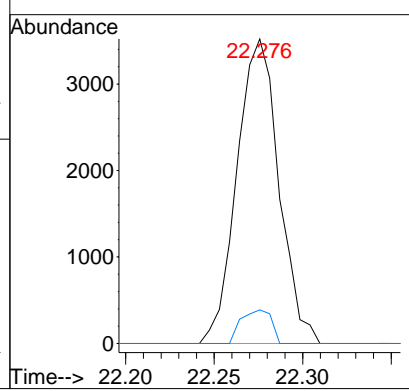
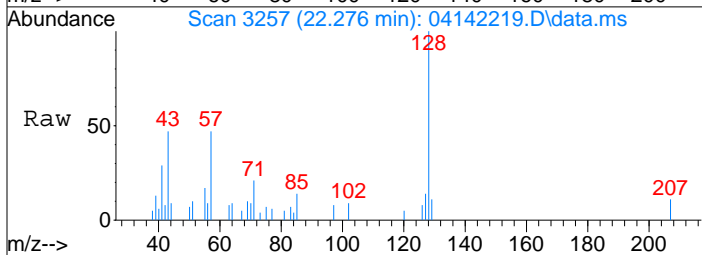
#91
 d-Limonene
 Concen: 0.33 ng
 RT: 20.66 min Scan# 2973
 Delta R.T. -0.006 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

Tgt Ion	Resp	Lower	Upper
68	100		
93	77.0	48.9	88.9



#95
 Naphthalene
 Concen: 0.08 ng
 RT: 22.28 min Scan# 3257
 Delta R.T. -0.005 min
 Lab File: 04142219.D
 Acq: 14 Apr 2022 16:40

Tgt Ion	Resp	Lower	Upper
128	100		
129	7.9	0.0	31.1



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: NYS Department of Environmental Conservation

Client Sample ID: Building-1-IA-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00848

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14/22

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.33 Final Pressure (psig): 4.26

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	8.3	0.66	4.8	0.38	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	0.67	0.48	0.14	
74-87-3	Chloromethane	0.57	0.26	0.28	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.68	ND	0.097	
75-01-4	Vinyl Chloride	ND	0.14	ND	0.054	
106-99-0	1,3-Butadiene	ND	0.26	ND	0.12	
74-83-9	Bromomethane	ND	0.26	ND	0.068	
75-00-3	Chloroethane	ND	0.26	ND	0.10	
64-17-5	Ethanol	310	6.3	170	3.3	
75-05-8	Acetonitrile	ND	1.3	ND	0.75	
107-02-8	Acrolein	1.3	1.3	0.57	0.55	
67-64-1	Acetone	48	6.6	20	2.8	
75-69-4	Trichlorofluoromethane (CFC 11)	1.1	0.66	0.20	0.12	
67-63-0	2-Propanol (Isopropyl Alcohol)	28	1.3	11	0.51	
107-13-1	Acrylonitrile	ND	1.3	ND	0.58	
75-35-4	1,1-Dichloroethene	ND	0.14	ND	0.035	
75-09-2	Methylene Chloride	1.0	0.66	0.30	0.19	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.67	ND	0.21	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.68	ND	0.089	
75-15-0	Carbon Disulfide	ND	1.4	ND	0.45	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	ND	0.035	
75-34-3	1,1-Dichloroethane	ND	0.14	ND	0.034	
1634-04-4	Methyl tert-Butyl Ether	ND	0.67	ND	0.19	
108-05-4	Vinyl Acetate	ND	6.3	ND	1.8	
78-93-3	2-Butanone (MEK)	8.4	1.3	2.8	0.43	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3

Client: NYS Department of Environmental Conservation
Client Sample ID: Building-1-IA-040722
Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602
 ALS Sample ID: P2201602-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS00848

Date Collected: 4/7/22
 Date Received: 4/8/22
 Date Analyzed: 4/14/22
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.33 Final Pressure (psig): 4.26

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.14	ND	0.035	
141-78-6	Ethyl Acetate	72	2.6	20	0.73	
110-54-3	n-Hexane	3.6	0.67	1.0	0.19	
67-66-3	Chloroform	0.38	0.14	0.077	0.028	
109-99-9	Tetrahydrofuran (THF)	13	1.3	4.3	0.43	
107-06-2	1,2-Dichloroethane	ND	0.14	ND	0.034	
71-55-6	1,1,1-Trichloroethane	0.28	0.14	0.052	0.025	
71-43-2	Benzene	2.5	0.14	0.79	0.043	
56-23-5	Carbon Tetrachloride	0.63	0.14	0.10	0.022	
110-82-7	Cyclohexane	1.8	1.4	0.53	0.40	
78-87-5	1,2-Dichloropropane	ND	0.14	ND	0.030	
75-27-4	Bromodichloromethane	ND	0.14	ND	0.021	
79-01-6	Trichloroethene	ND	0.14	ND	0.026	
123-91-1	1,4-Dioxane	ND	0.66	ND	0.18	
80-62-6	Methyl Methacrylate	ND	1.4	ND	0.34	
142-82-5	n-Heptane	2.6	0.67	0.63	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.67	ND	0.15	
108-10-1	4-Methyl-2-pentanone	ND	1.4	ND	0.34	
10061-02-6	trans-1,3-Dichloropropene	ND	0.64	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.14	ND	0.025	
108-88-3	Toluene	18	0.66	4.7	0.17	
591-78-6	2-Hexanone	ND	1.4	ND	0.34	
124-48-1	Dibromochloromethane	ND	0.14	ND	0.016	
106-93-4	1,2-Dibromoethane	ND	0.14	ND	0.018	
123-86-4	n-Butyl Acetate	ND	1.4	ND	0.29	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3 of 3

Client: NYS Department of Environmental Conservation

Client Sample ID: Building-1-IA-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00848

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14/22

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.33 Final Pressure (psig): 4.26

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	1.3	0.67	0.27	0.14	
127-18-4	Tetrachloroethene	4.9	0.14	0.72	0.020	
108-90-7	Chlorobenzene	ND	0.66	ND	0.14	
100-41-4	Ethylbenzene	2.1	0.66	0.49	0.15	
179601-23-1	m,p-Xylenes	7.6	1.4	1.7	0.32	
75-25-2	Bromoform	ND	0.66	ND	0.063	
100-42-5	Styrene	0.77	0.66	0.18	0.15	
95-47-6	o-Xylene	2.6	0.66	0.59	0.15	
111-84-2	n-Nonane	1.6	0.66	0.31	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	ND	0.020	
98-82-8	Cumene	ND	0.66	ND	0.13	
80-56-8	alpha-Pinene	2.9	0.68	0.52	0.12	
103-65-1	n-Propylbenzene	ND	0.67	ND	0.14	
622-96-8	4-Ethyltoluene	0.81	0.67	0.17	0.14	
108-67-8	1,3,5-Trimethylbenzene	0.76	0.66	0.16	0.13	
95-63-6	1,2,4-Trimethylbenzene	2.7	0.66	0.55	0.13	
100-44-7	Benzyl Chloride	ND	1.4	ND	0.27	
541-73-1	1,3-Dichlorobenzene	ND	0.66	ND	0.11	
106-46-7	1,4-Dichlorobenzene	ND	0.66	ND	0.11	
95-50-1	1,2-Dichlorobenzene	ND	0.67	ND	0.11	
5989-27-5	d-Limonene	9.7	0.66	1.7	0.12	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.3	ND	0.13	
120-82-1	1,2,4-Trichlorobenzene	ND	1.3	ND	0.17	
91-20-3	Naphthalene	ND	0.66	ND	0.13	
87-68-3	Hexachlorobutadiene	ND	0.66	ND	0.061	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Data File : I:\MS09\DATA\2022 04\14\04142220.D
 Acq On : 14 Apr 2022 17:13
 Sample : P2201602-003 (1000mL)
 Misc : S35-04132201

Vial: 5
 Operator: SC
 Inst : MS09

Quant Time: Apr 14 17:36:28 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

 4/14/22

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	11.17	130	148688	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	13.31	114	661464	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.64	54	170007	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.03	65	294833	12.963	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	103.68%	
57) Toluene-d8 (SS2)	15.77	98	775804	12.524	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	100.16%	
73) Bromofluorobenzene (SS3)	19.03	174	260604	11.945	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	95.52%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.05	42	134857	6.572	ng	97
3) Dichlorodifluoromethan...	4.21	85	52712	1.877	ng	99
4) Chloromethane	4.50	50	10514	0.451	ng	93
5) 1,2-Dichloro-1,1,2,2-t...	4.76	135	1143	0.091	ng	74
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.19	54	1210	0.069	ng	# 86
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.38	45	3727026	249.002	ng	100
11) Acetonitrile	6.68	41	62	N.D.		
12) Acrolein	6.78	56	9458	1.031	ng	99
13) Acetone	6.98	58	449924	38.185	ng	# 78
14) Trichlorofluoromethane	7.24	101	23666	0.904	ng	98
15) 2-Propanol (Isopropanol)	7.51	45	1030924	22.135	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	8.43	84	10090	0.823	ng	100
20) 3-Chloro-1-propene (Al...	8.60	41	971	N.D.		
21) Trichlorotrifluoroethane	8.86	151	4085	0.365	ng	89
22) Carbon Disulfide	8.70	76	4277	0.104	ng	90
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	10.01	63	271	N.D.		
25) Methyl tert-Butyl Ether	10.12	73	266	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	10.48	72	54582	6.631	ng	98
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	11.30	61	335207	57.021	ng	96
31) n-Hexane	11.29	57	76109	2.873	ng	97
32) Chloroform	11.35	83	6889	0.300	ng	99
34) Tetrahydrofuran (THF)	11.75	72	78934	9.992	ng	97
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	12.15	62	2221	0.109	ng	98
38) 1,1,1-Trichloroethane	12.43	97	5045	0.223	ng	98
39) Isopropyl Acetate	13.31	61	22842	No Calib		
40) 1-Butanol	12.88	56	91702	No Calib	#	
41) Benzene	12.91	78	102599	2.004	ng	98
42) Carbon Tetrachloride	13.08	117	9850	0.500	ng	96
43) Cyclohexane	13.21	84	28255	1.439	ng	95
44) tert-Amyl Methyl Ether	13.44	73	160	N.D.		
45) 1,2-Dichloropropane	13.77	63	1015	0.071	ng	81
46) Bromodichloromethane	0.00	83	0	N.D.	d	
47) Trichloroethene	14.01	130	408	N.D.		
48) 1,4-Dioxane	14.03	88	420	N.D.		
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.	d	
50) Methyl Methacrylate	14.23	100	2483	0.484	ng	# 75

Data File : I:\MS09\DATA\2022 04\14\04142220.D
 Acq On : 14 Apr 2022 17:13
 Sample : P2201602-003 (1000mL)
 Misc : S35-04132201

Vial: 5
 Operator: SC
 Inst : MS09

Quant Time: Apr 14 17:36:28 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

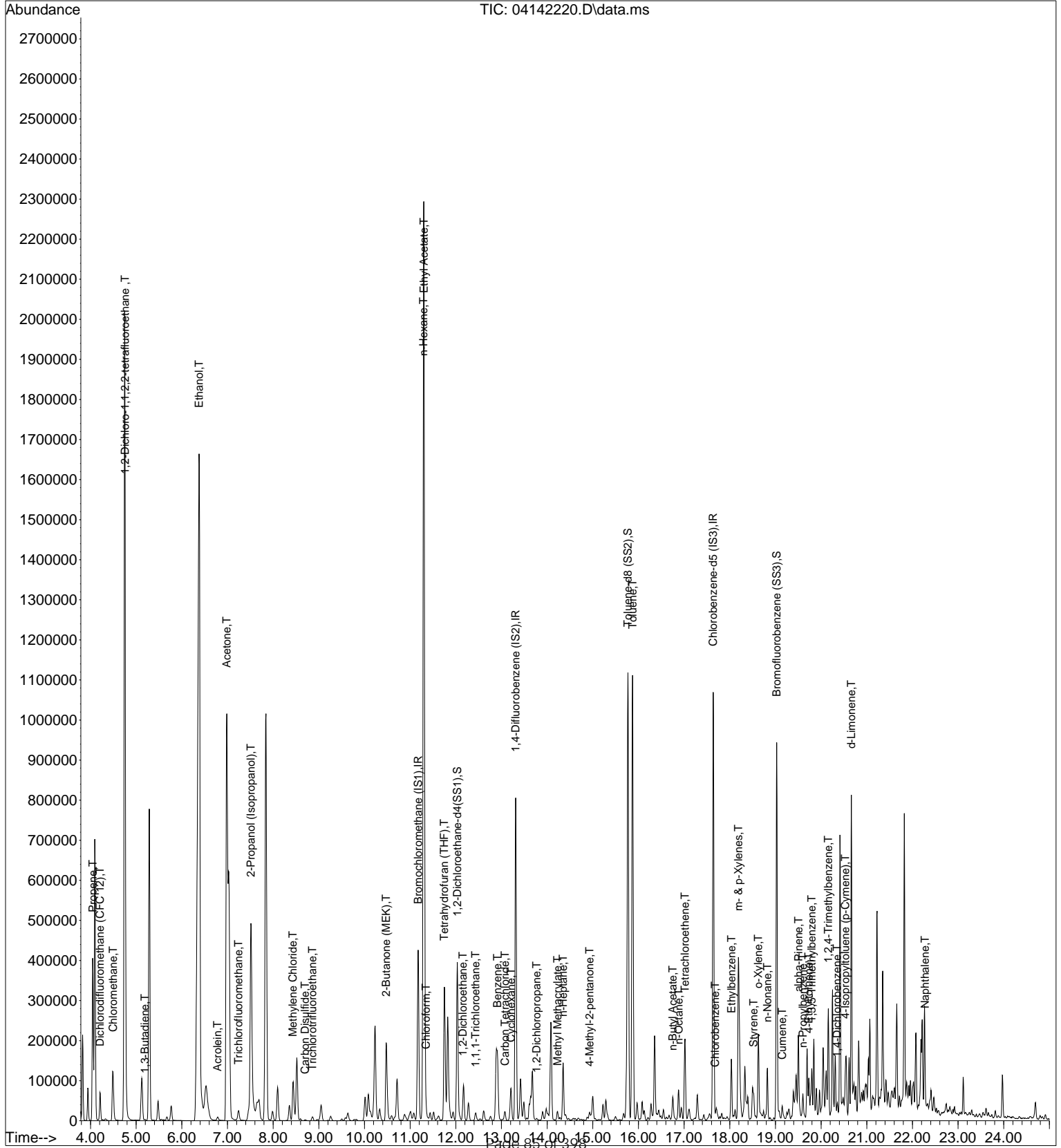
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.35	71	27485	2.056	ng	99
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	14.93	58	5293	0.365	ng #	71
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.87	91	803743	14.110	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	16.75	43	49295	1.031	ng	94
63) n-Octane	16.88	57	14254	0.999	ng	97
64) Tetrachloroethene	17.02	166	62464	3.850	ng	99
65) Chlorobenzene	17.68	112	4400	0.115	ng	77
66) Ethylbenzene	18.03	91	108811	1.678	ng	99
67) m- & p-Xylenes	18.19	91	313353	6.015	ng	99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.52	104	22777	0.613	ng	97
70) o-Xylene	18.62	91	107602	2.047	ng	99
71) n-Nonane	18.82	43	51270	1.271	ng	98
72) 1,1,2,2-Tetrachloroethane	18.64	83	957	N.D.		
74) Cumene	19.15	105	8874	0.134	ng	97
75) alpha-Pinene	19.50	93	72071	2.293	ng	99
76) n-Propylbenzene	19.60	91	36540	0.459	ng	94
77) 3-Ethyltoluene	19.73	105	41398	No Calib	#	
78) 4-Ethyltoluene	19.73	105	41398	0.645	ng	98
79) 1,3,5-Trimethylbenzene	19.79	105	32972	0.605	ng	99
80) alpha-Methylstyrene	19.69	118	383	No Calib	#	
81) 2-Ethyltoluene	20.66	105	10847	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.16	105	119947	2.134	ng	90
83) n-Decane	20.55	58	3134	No Calib	#	
84) Benzyl Chloride	0.00	91	0	N.D.	d	
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.	d	
86) 1,4-Dichlorobenzene	20.35	146	4364	0.133	ng	99
87) sec-Butylbenzene	0.00	105	0	N.D.	d	
88) 4-Isopropyltoluene (p-...	20.53	119	25813	0.414	ng	83
89) 1,2,3-Trimethylbenzene	20.40	105	5427	No Calib		
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	20.66	68	161480	7.723	ng	96
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	21.34	58	4727	No Calib	#	
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	22.28	128	17894	0.253	ng	95
96) n-Dodecane	22.26	58	3620	No Calib	#	
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	18.63	55	4850	No Calib	#	
99) tert-Butylbenzene	20.12	119	1330	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:\MS09\DATA\2022 04\14\04142220.D
Acq On : 14 Apr 2022 17:13
Sample : P2201602-003 (1000mL)
Misc : S35-04132201

Vial: 5
Operator: SC
Inst : MS09

Quant Time: Apr 14 17:36:28 2022
Quant Method : I:\MS09\Methods\R9040722.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Apr 07 16:31:14 2022
Response via : Initial Calibration
DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2022 04\14\04142220.D
 Acq On : 14 Apr 2022 17:13
 Sample : P2201602-003 (1000mL)
 Misc : S35-04132201

Vial: 5
 Operator: SC
 Inst : MS09

Quant Time: Apr 14 17:36:28 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

 4/14/22

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.17	130	148688	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	13.31	114	661464	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.64	54	170007	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.03	65	294833	12.963	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	103.68%	
57) Toluene-d8 (SS2)	15.77	98	775804	12.524	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	100.16%	
73) Bromofluorobenzene (SS3)	19.03	174	260604	11.945	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	95.52%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.05	42	134857	6.572	ng	97
3) Dichlorodifluoromethan...	4.21	85	52712	1.877	ng	99
4) Chloromethane	4.50	50	10514	0.451	ng	93
5) 1,2-Dichloro-1,1,2,2-t...	4.76	135	1143	0.091	ng	74
7) 1,3-Butadiene	5.19	54	1210	0.069	ng	# 86
10) Ethanol	6.38	45	3727026	249.002	ng	100
12) Acrolein	6.78	56	9458	1.031	ng	99
13) Acetone	6.98	58	449924	38.185	ng	# 78
14) Trichlorofluoromethane	7.24	101	23666	0.904	ng	98
15) 2-Propanol (Isopropanol)	7.51	45	1030924	22.135	ng	100
19) Methylene Chloride	8.43	84	10090	0.823	ng	100
21) Trichlorotrifluoroethane	8.86	151	4085	0.365	ng	89
22) Carbon Disulfide	8.70	76	4277	0.104	ng	90
27) 2-Butanone (MEK)	10.48	72	54582	6.631	ng	98
30) Ethyl Acetate	11.30	61	335207	57.021	ng	96
31) n-Hexane	11.29	57	76109	2.873	ng	97
32) Chloroform	11.35	83	6889	0.300	ng	99
34) Tetrahydrofuran (THF)	11.75	72	78934	9.992	ng	97
36) 1,2-Dichloroethane	12.15	62	2221	0.109	ng	98
38) 1,1,1-Trichloroethane	12.43	97	5045	0.223	ng	98
41) Benzene	12.91	78	102599	2.004	ng	98
42) Carbon Tetrachloride	13.08	117	9850	0.500	ng	96
43) Cyclohexane	13.21	84	28255	1.439	ng	95
45) 1,2-Dichloropropane	13.77	63	1015	0.071	ng	81
50) Methyl Methacrylate	14.23	100	2483	0.484	ng	# 75
51) n-Heptane	14.35	71	27485	2.056	ng	99
53) 4-Methyl-2-pentanone	14.93	58	5293	0.365	ng	# 71
58) Toluene	15.87	91	803743	14.110	ng	100
62) n-Butyl Acetate	16.75	43	49295	1.031	ng	94
63) n-Octane	16.88	57	14254	0.999	ng	97
64) Tetrachloroethene	17.02	166	62464	3.850	ng	99
65) Chlorobenzene	17.68	112	4400	0.115	ng	77
66) Ethylbenzene	18.03	91	108811	1.678	ng	99
67) m- & p-Xylenes	18.19	91	313353	6.015	ng	99
69) Styrene	18.52	104	22777	0.613	ng	97
70) o-Xylene	18.62	91	107602	2.047	ng	99
71) n-Nonane	18.82	43	51270	1.271	ng	98
74) Cumene	19.15	105	8874	0.134	ng	97
75) alpha-Pinene	19.50	93	72071	2.293	ng	99
76) n-Propylbenzene	19.60	91	36540	0.459	ng	94
78) 4-Ethyltoluene	19.73	105	41398	0.645	ng	98
79) 1,3,5-Trimethylbenzene	19.79	105	32972	0.605	ng	99
82) 1,2,4-Trimethylbenzene	20.16	105	119947	2.134	ng	90
86) 1,4-Dichlorobenzene	20.35	146	4364	0.133	ng	99
88) 4-Isopropyltoluene (p-...	20.53	119	25813	0.414	ng	83
91) d-Limonene	20.66	68	161480	7.723	ng	96
95) Naphthalene	22.28	128	17894	0.253	ng	95

Data File : I:\MS09\DATA\2022 04\14\04142220.D
Acq On : 14 Apr 2022 17:13
Sample : P2201602-003 (1000mL)
Misc : S35-04132201

Vial: 5
Operator: SC
Inst : MS09

Quant Time: Apr 14 17:36:28 2022
Quant Method : I:\MS09\Methods\R9040722.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Apr 07 16:31:14 2022
Response via : Initial Calibration
DataAcq Meth:TO15.M

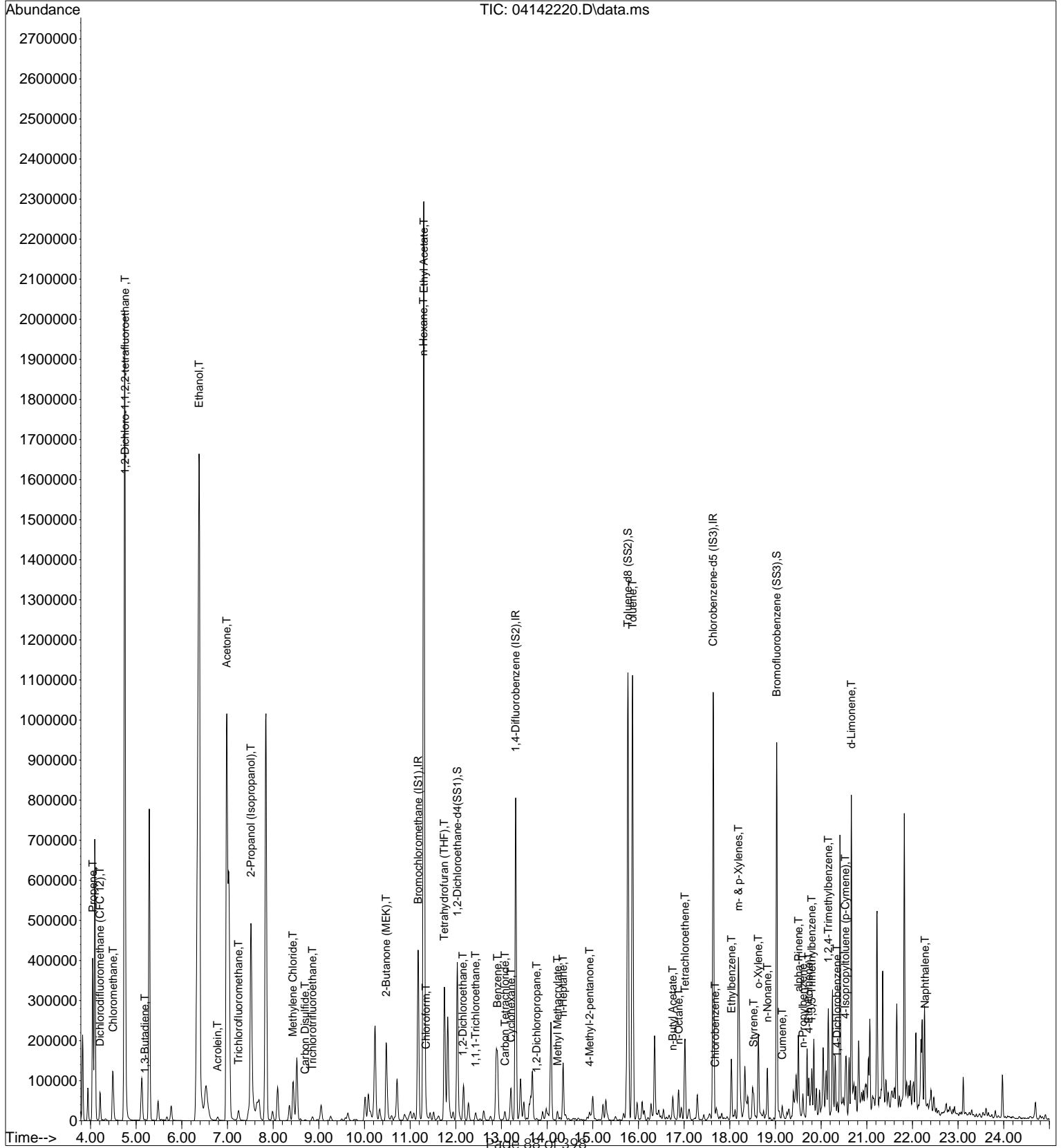
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

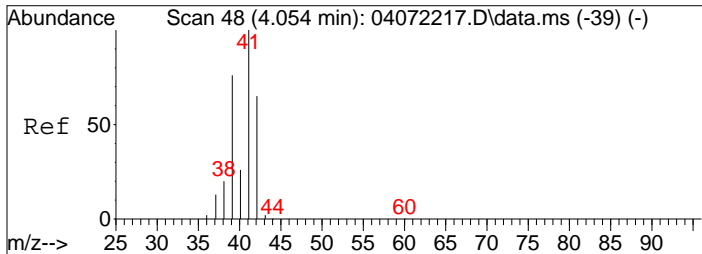
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS09\DATA\2022 04\14\04142220.D
Acq On : 14 Apr 2022 17:13
Sample : P2201602-003 (1000mL)
Misc : S35-04132201

Vial: 5
Operator: SC
Inst : MS09

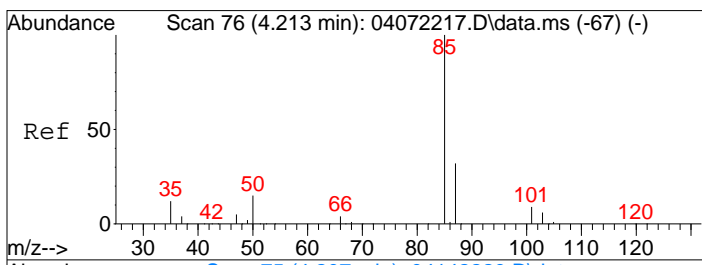
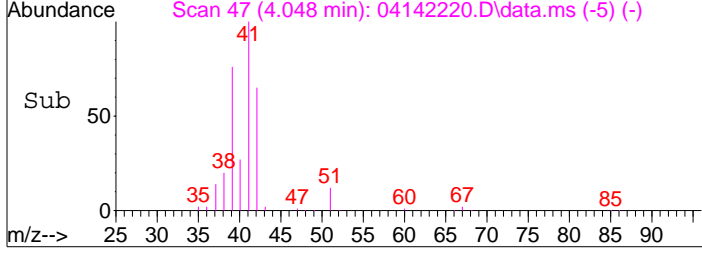
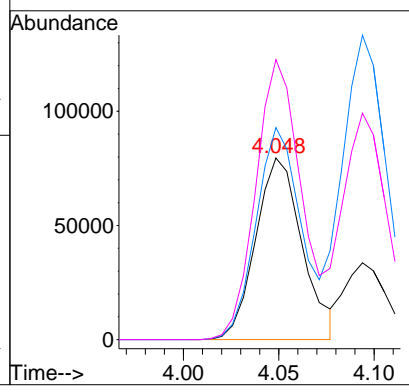
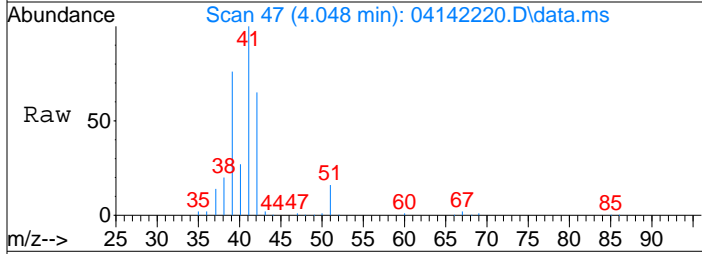
Quant Time: Apr 14 17:36:28 2022
Quant Method : I:\MS09\Methods\R9040722.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Apr 07 16:31:14 2022
Response via : Initial Calibration
DataAcq Meth:TO15.M





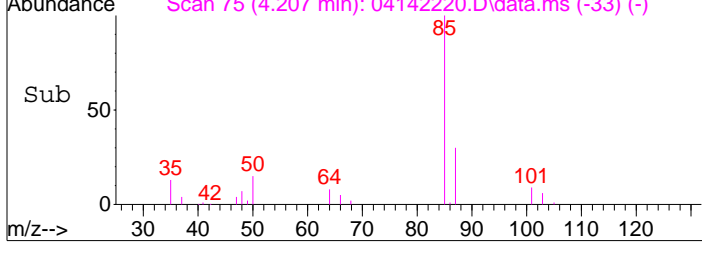
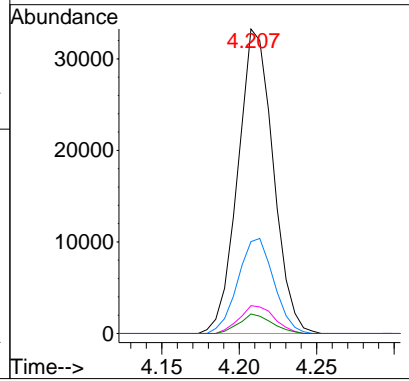
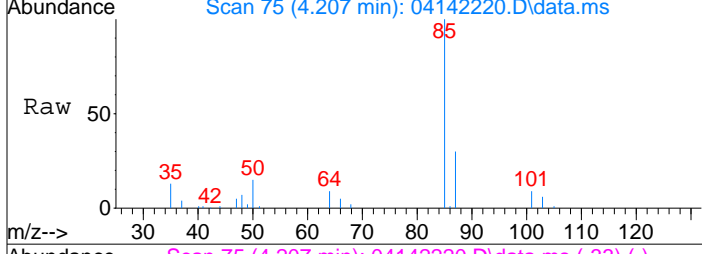
#2
 Propene
 Concen: 6.57 ng
 RT: 4.05 min Scan# 47
 Delta R.T. -0.011 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

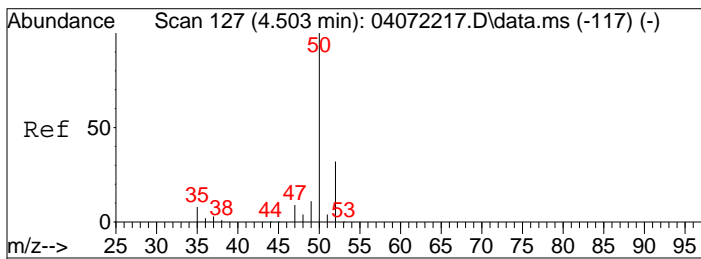
Tgt Ion	Resp	Lower	Upper
42	134857		
42	100		
39	113.3	96.7	136.7
41	148.2	132.4	172.4



#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.88 ng
 RT: 4.21 min Scan# 75
 Delta R.T. -0.011 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

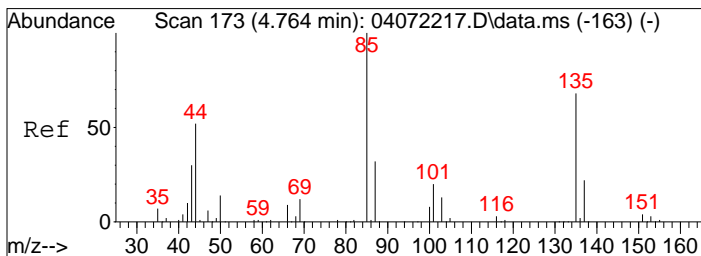
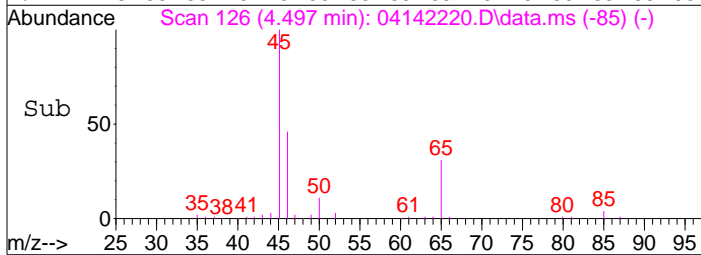
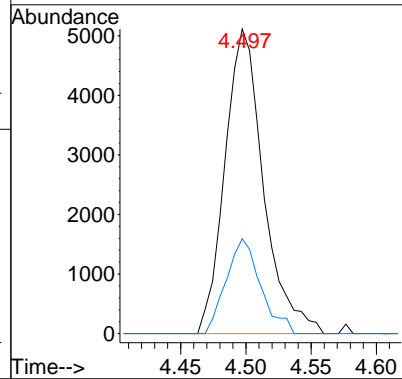
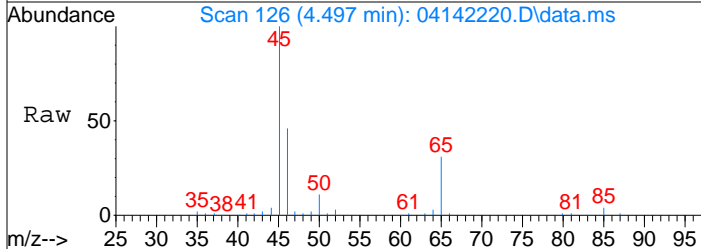
Tgt Ion	Resp	Lower	Upper
85	52712		
85	100		
87	31.8	12.2	52.2
101	9.0	0.0	29.3
103	5.9	0.0	26.0





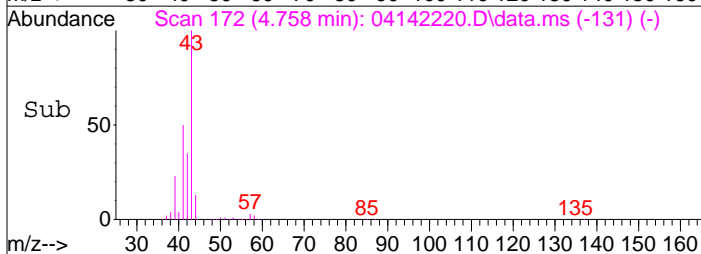
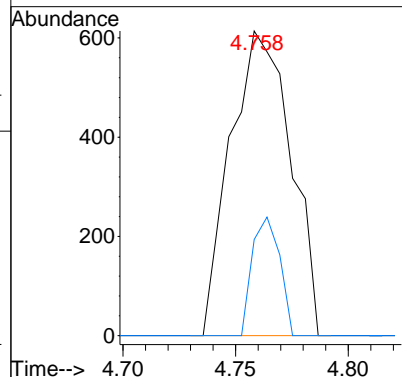
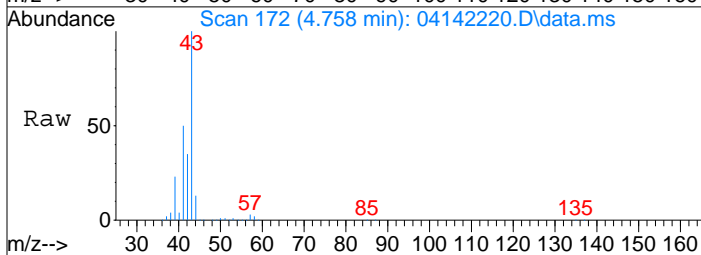
#4
 Chloromethane
 Concen: 0.45 ng
 RT: 4.50 min Scan# 126
 Delta R.T. -0.017 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

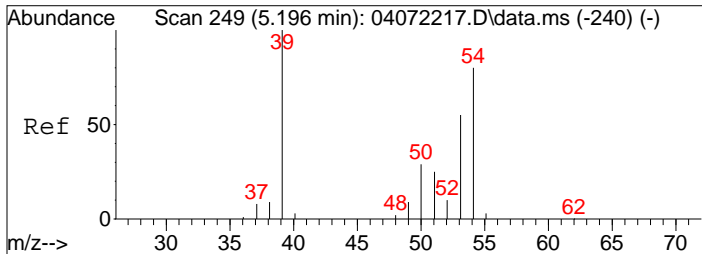
Tgt Ion	Resp	Lower	Upper
50	10514		
52	27.8	11.8	51.8



#5
 1,2-Dichloro-1,1,2,2-tetrafluoroethane
 Concen: 0.09 ng
 RT: 4.76 min Scan# 172
 Delta R.T. -0.017 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

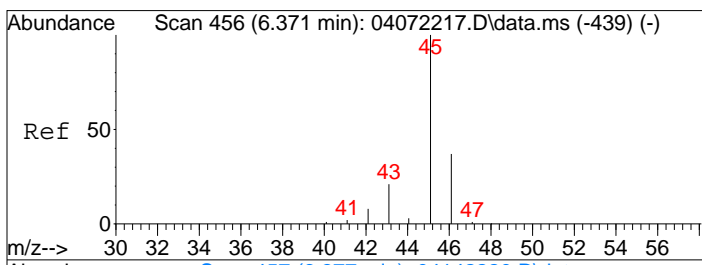
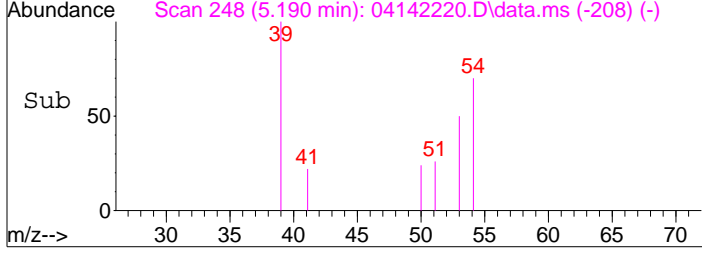
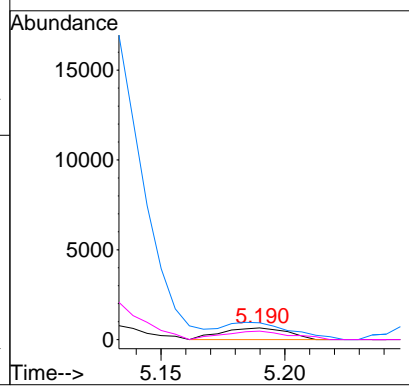
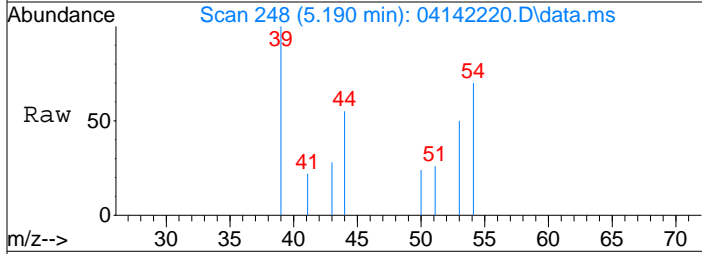
Tgt Ion	Resp	Lower	Upper
135	1143		
137	17.8	12.6	52.6





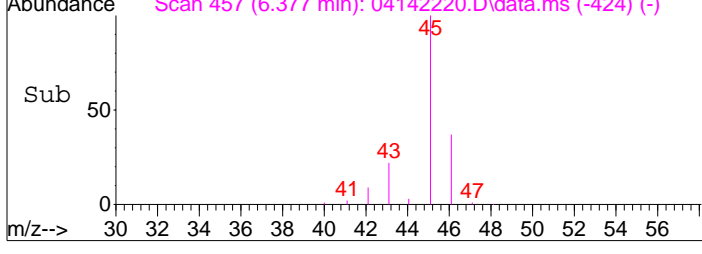
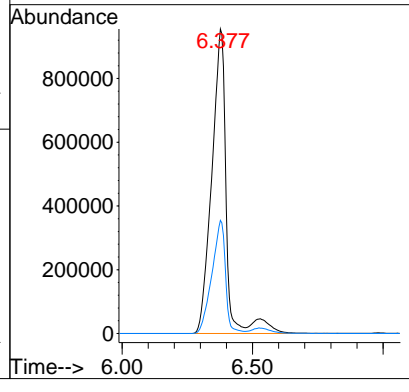
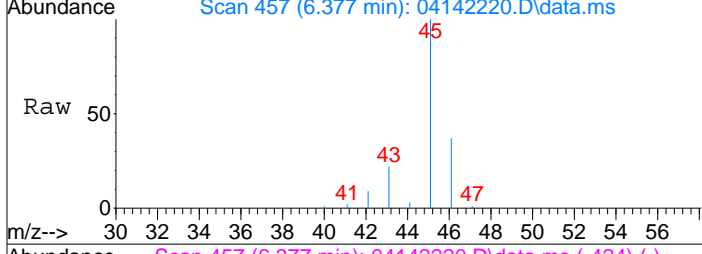
#7
 1,3-Butadiene
 Concen: 0.07 ng
 RT: 5.19 min Scan# 248
 Delta R.T. -0.023 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

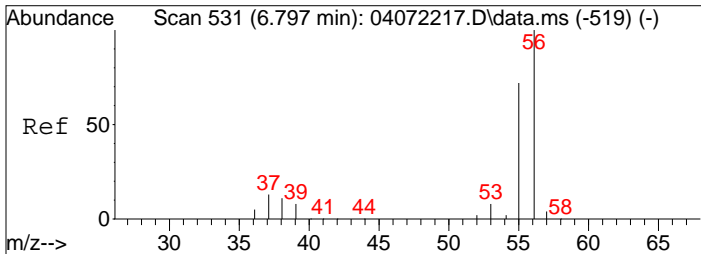
Tgt Ion:	Resp:	Lower	Upper
54	1210		
54	100		
39	154.1	111.2	151.2#
53	74.0	50.6	90.6



#10
 Ethanol
 Concen: 249.00 ng
 RT: 6.38 min Scan# 457
 Delta R.T. -0.062 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

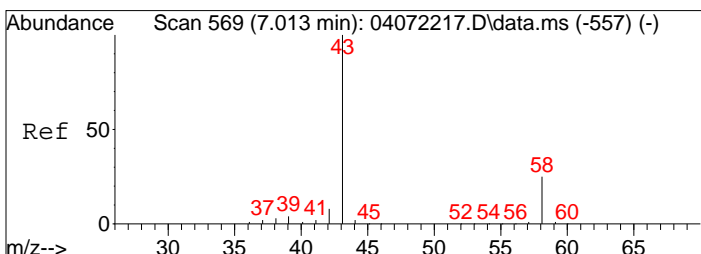
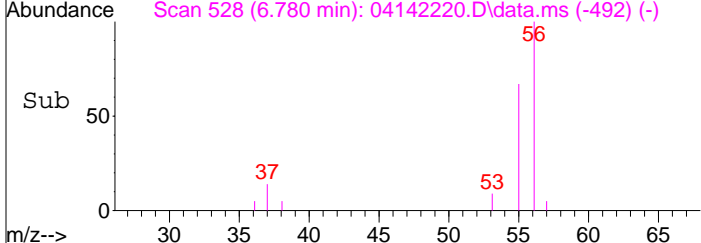
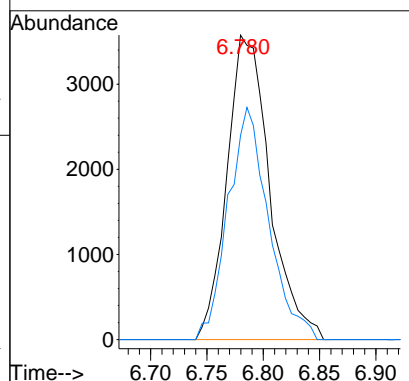
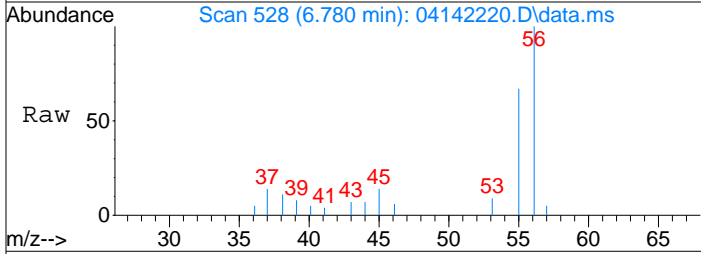
Tgt Ion:	Resp:	Lower	Upper
45	3727026		
45	100		
46	36.9	16.7	56.7





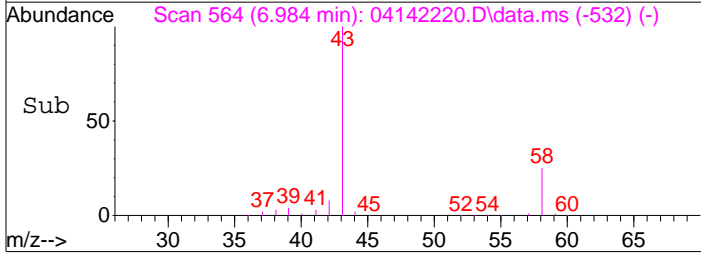
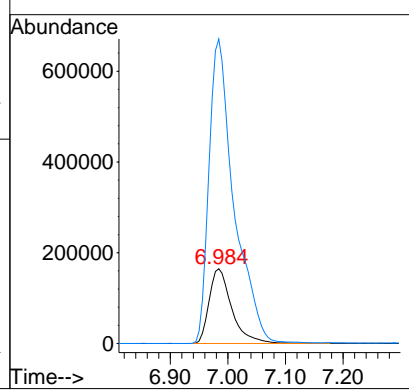
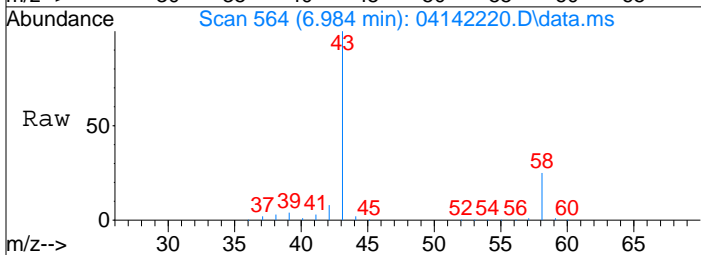
#12
 Acrolein
 Concen: 1.03 ng
 RT: 6.78 min Scan# 528
 Delta R.T. -0.045 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

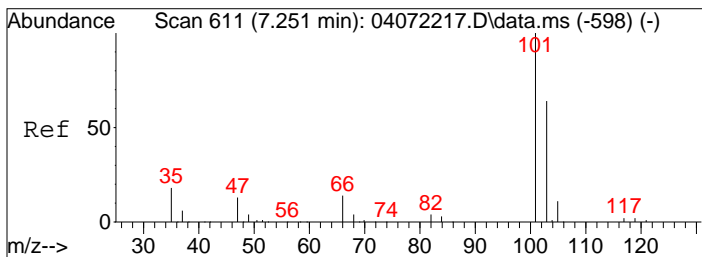
Tgt Ion	Resp	Lower	Upper
56	100		
55	72.1	51.3	91.3



#13
 Acetone
 Concen: 38.19 ng
 RT: 6.98 min Scan# 564
 Delta R.T. -0.068 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

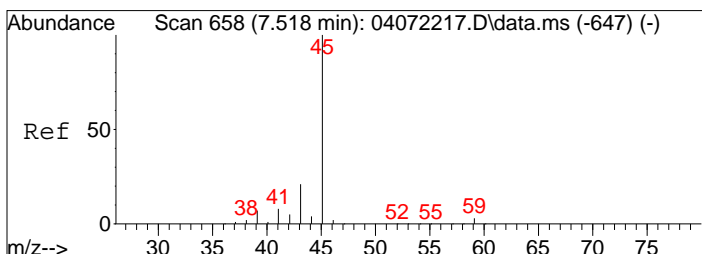
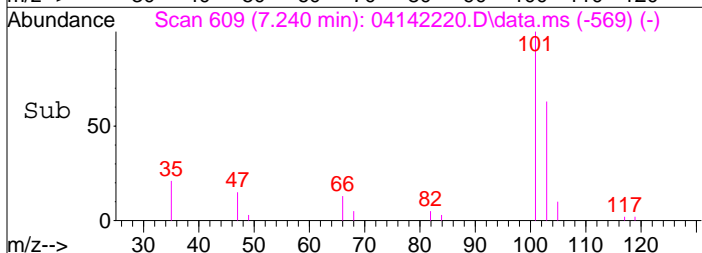
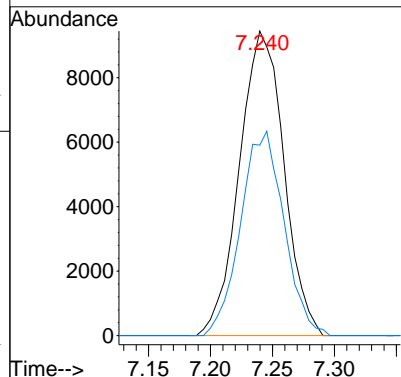
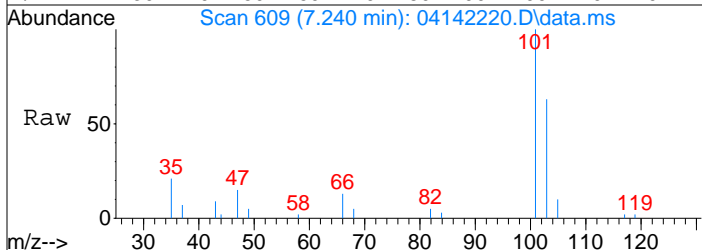
Tgt Ion	Resp	Lower	Upper
58	100		
43	453.7	370.7	430.7#





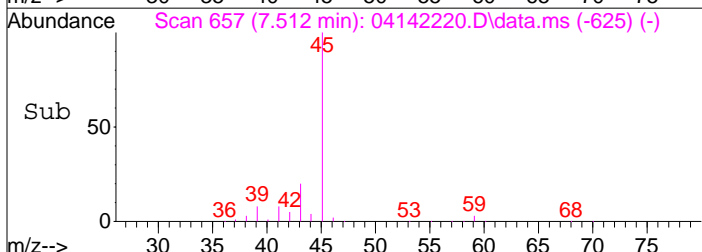
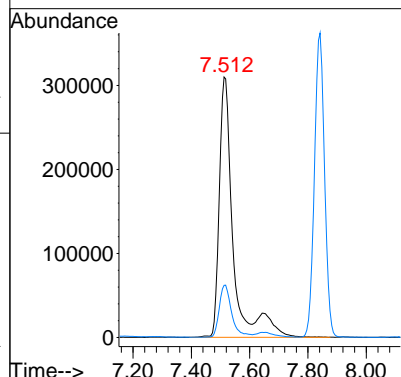
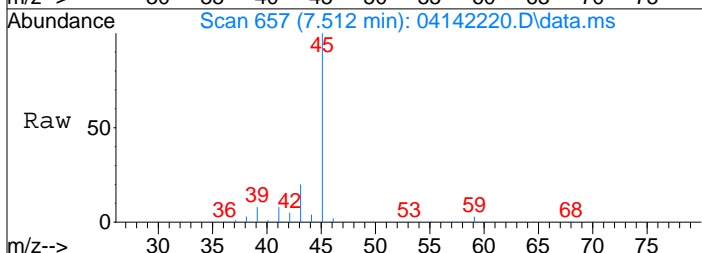
#14
 Trichlorofluoromethane
 Concen: 0.90 ng
 RT: 7.24 min Scan# 609
 Delta R.T. -0.023 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

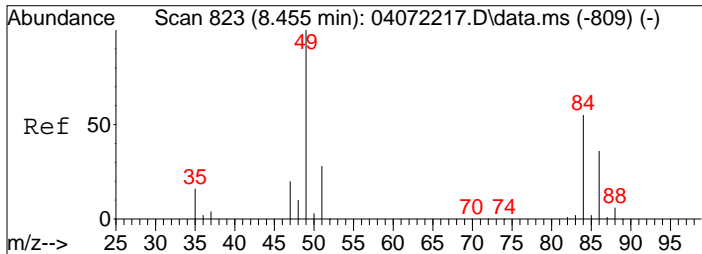
Tgt Ion	Resp	Lower	Upper
101	100		
103	65.3	43.8	83.8



#15
 2-Propanol (Isopropanol)
 Concen: 22.14 ng
 RT: 7.51 min Scan# 657
 Delta R.T. -0.068 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

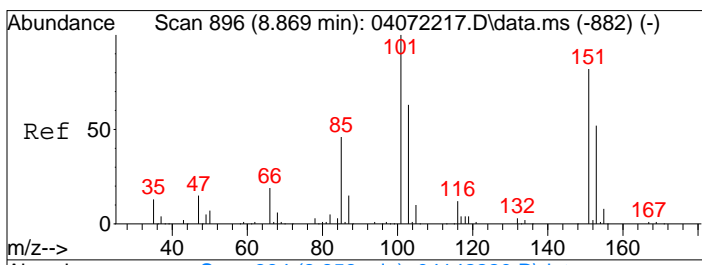
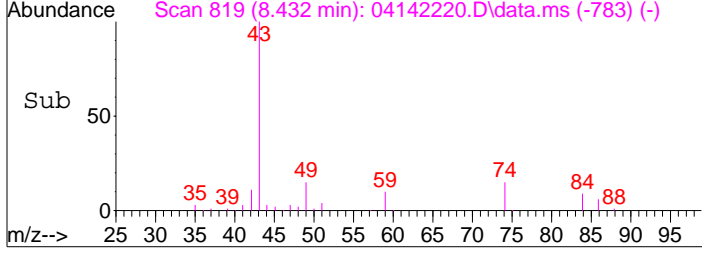
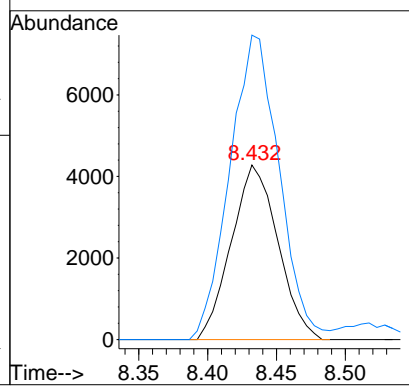
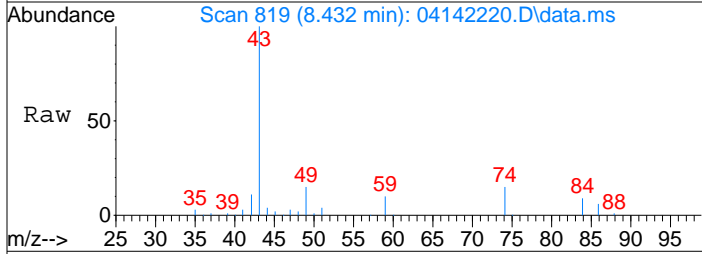
Tgt Ion	Resp	Lower	Upper
45	100		
43	20.4	0.6	40.6





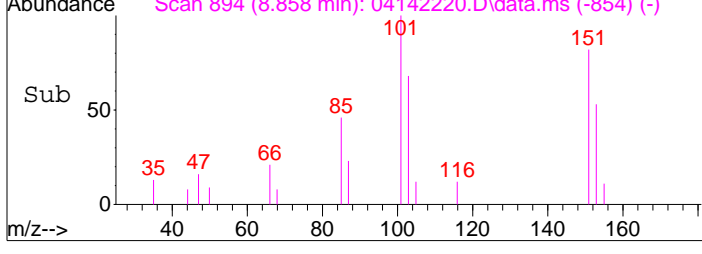
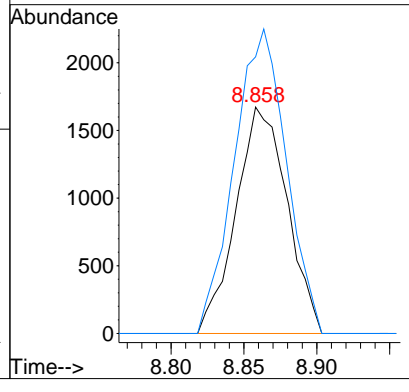
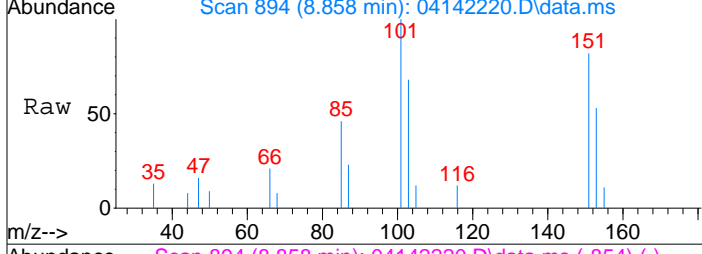
#19
 Methylene Chloride
 Concen: 0.82 ng
 RT: 8.43 min Scan# 819
 Delta R.T. -0.045 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

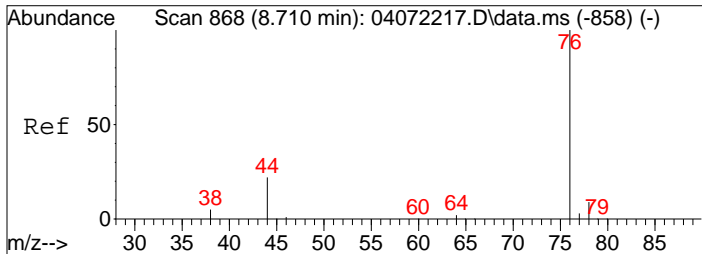
Tgt Ion	Resp	Lower	Upper
84	10090		
84	100		
49	184.6	159.1	209.1



#21
 Trichlorotrifluoroethane
 Concen: 0.36 ng
 RT: 8.86 min Scan# 894
 Delta R.T. -0.023 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

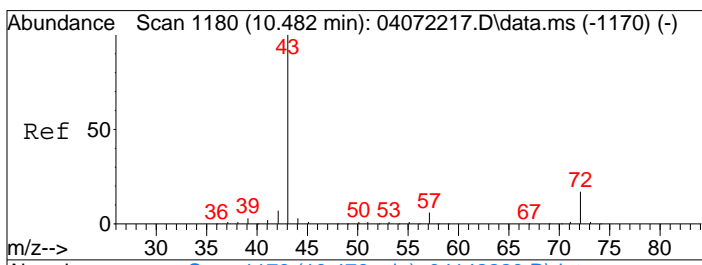
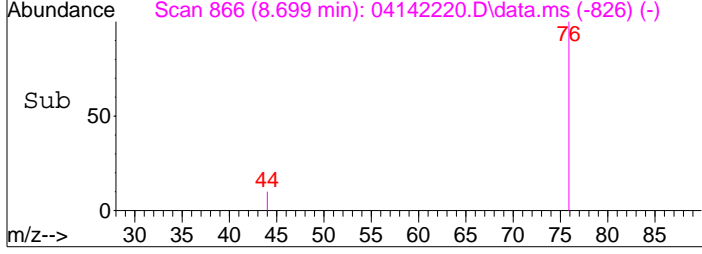
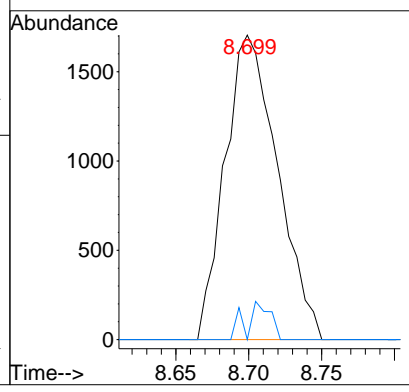
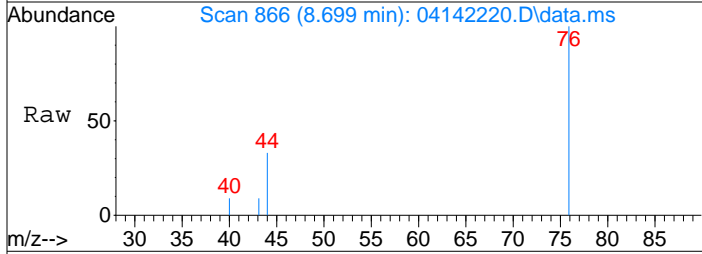
Tgt Ion	Resp	Lower	Upper
151	4085		
151	100		
101	136.6	103.7	143.7





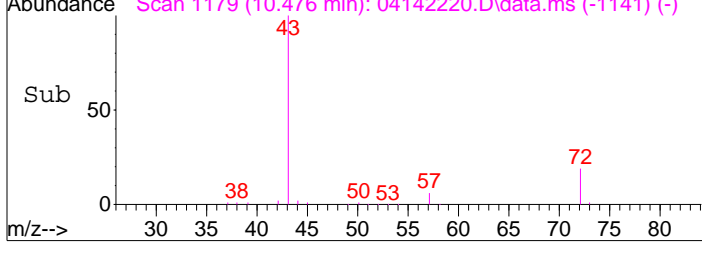
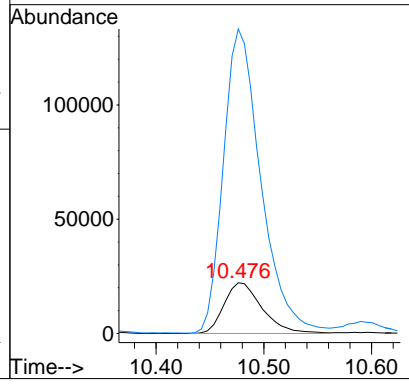
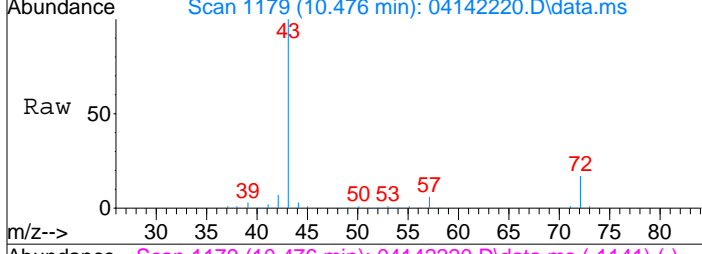
#22
 Carbon Disulfide
 Concen: 0.10 ng
 RT: 8.70 min Scan# 866
 Delta R.T. -0.023 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

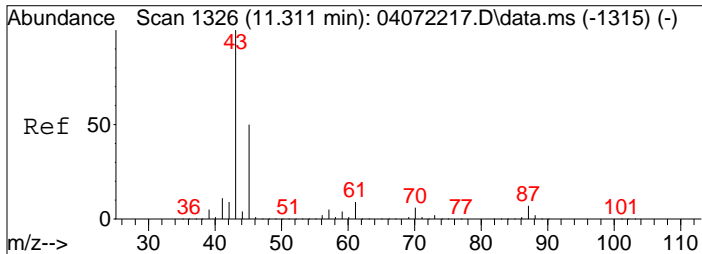
Tgt Ion:	Resp:	Lower	Upper
76	4277		
78	5.6	0.0	29.2



#27
 2-Butanone (MEK)
 Concen: 6.63 ng
 RT: 10.48 min Scan# 1179
 Delta R.T. -0.034 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

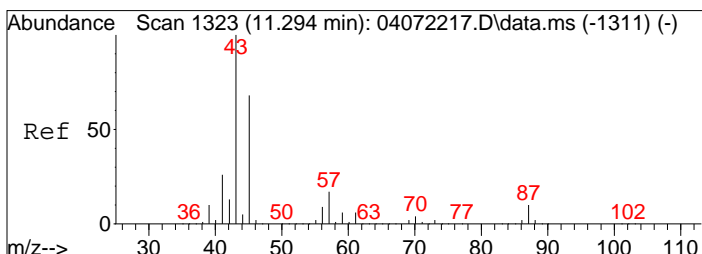
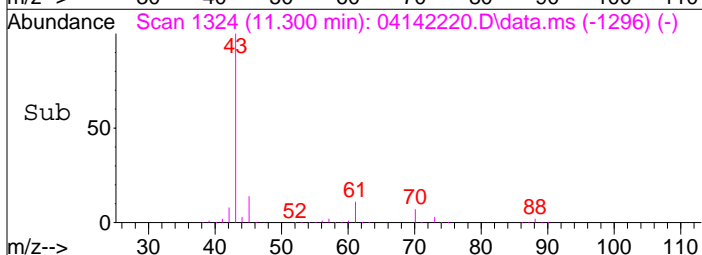
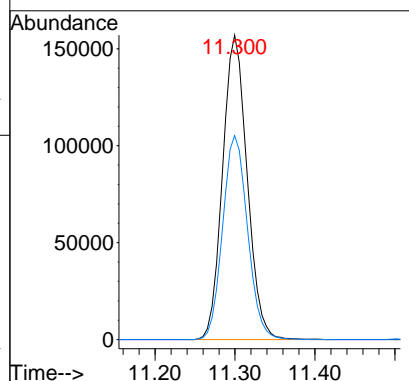
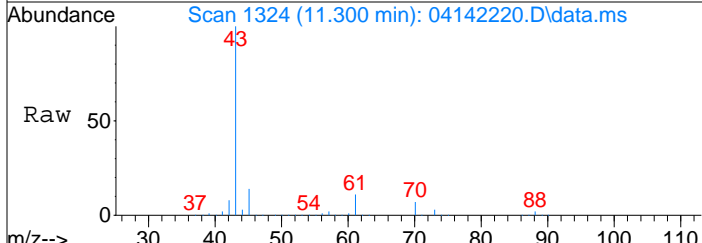
Tgt Ion:	Resp:	Lower	Upper
72	54582		
43	589.9	565.1	605.1





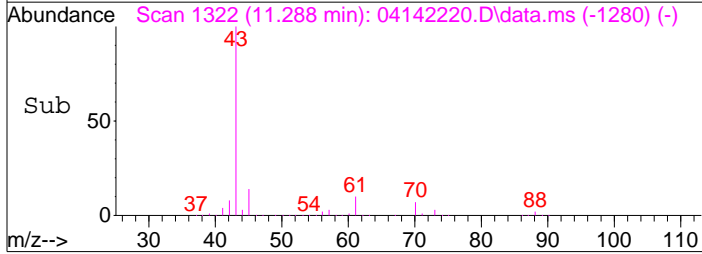
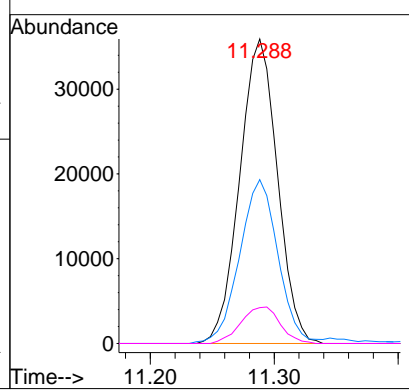
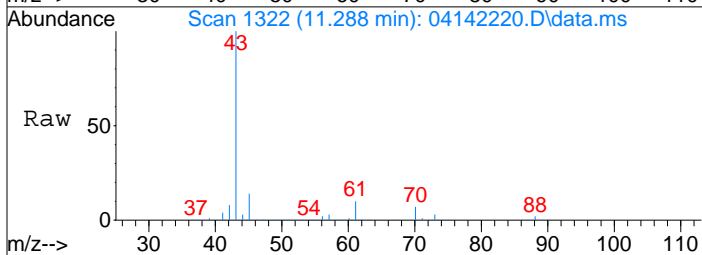
#30
 Ethyl Acetate
 Concen: 57.02 ng
 RT: 11.30 min Scan# 1324
 Delta R.T. -0.040 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

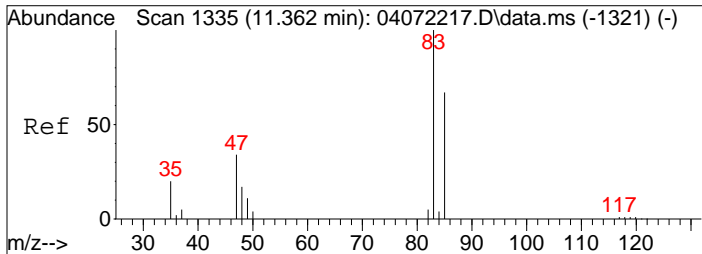
Tgt Ion	Resp	Lower	Upper
61	100		
70	67.9	50.8	90.8



#31
 n-Hexane
 Concen: 2.87 ng
 RT: 11.29 min Scan# 1322
 Delta R.T. -0.011 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

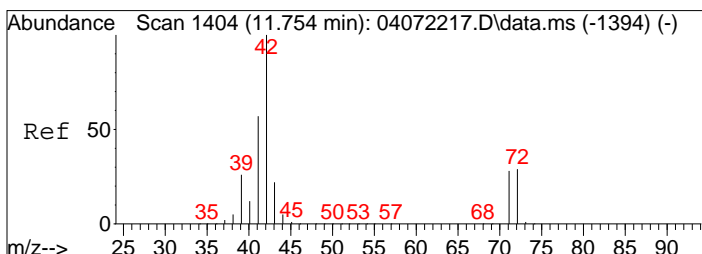
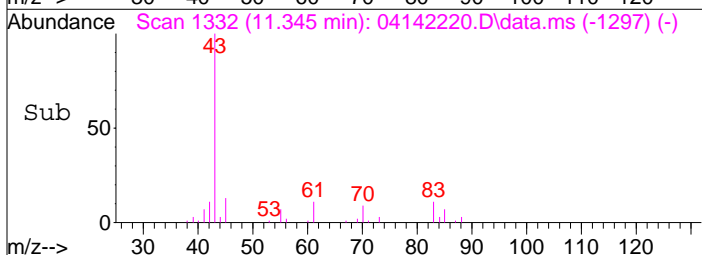
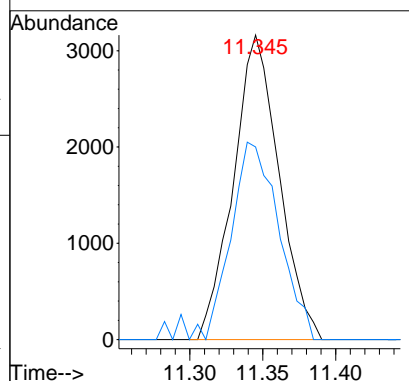
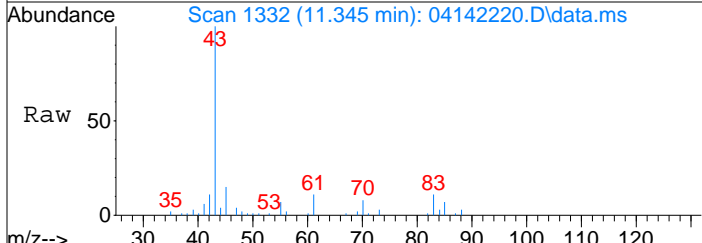
Tgt Ion	Resp	Lower	Upper
57	100		
56	54.7	41.4	62.2
86	12.5	9.9	14.9





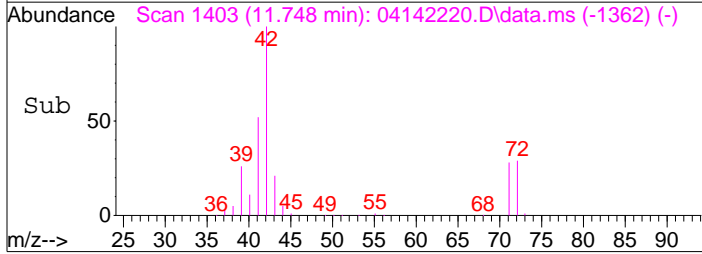
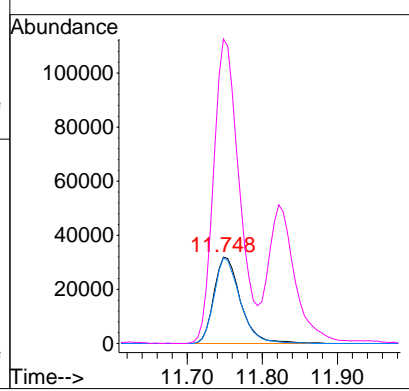
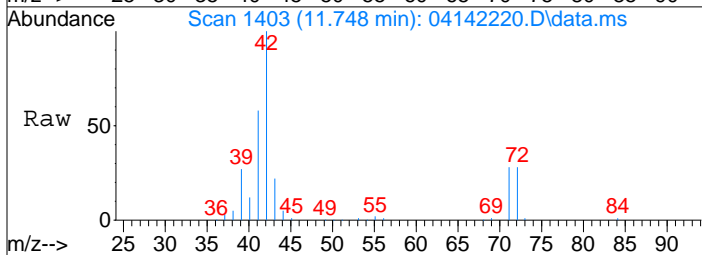
#32
 Chloroform
 Concen: 0.30 ng
 RT: 11.35 min Scan# 1332
 Delta R.T. -0.051 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

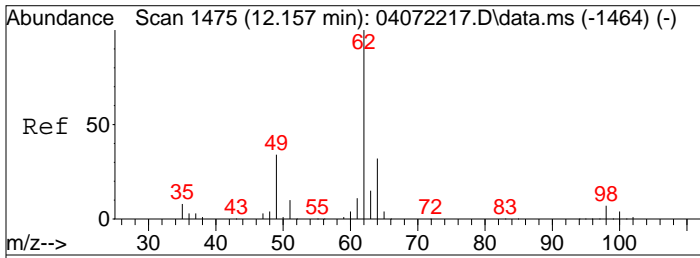
Tgt Ion	Resp	Lower	Upper
83	6889		
83	100		
85	67.7	47.1	87.1



#34
 Tetrahydrofuran (THF)
 Concen: 9.99 ng
 RT: 11.75 min Scan# 1403
 Delta R.T. -0.017 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

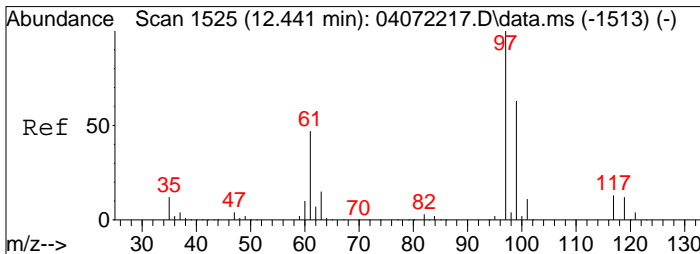
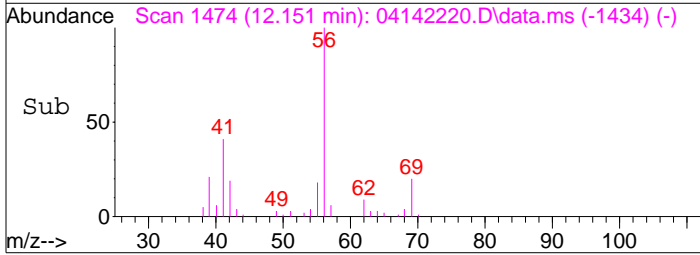
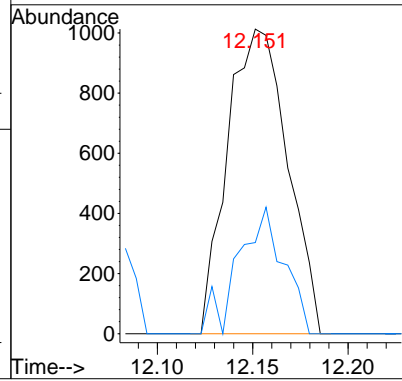
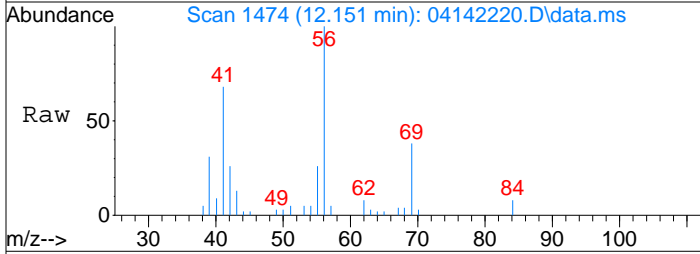
Tgt Ion	Resp	Lower	Upper
72	78934		
72	100		
71	96.2	77.0	117.0
42	337.0	325.1	365.1





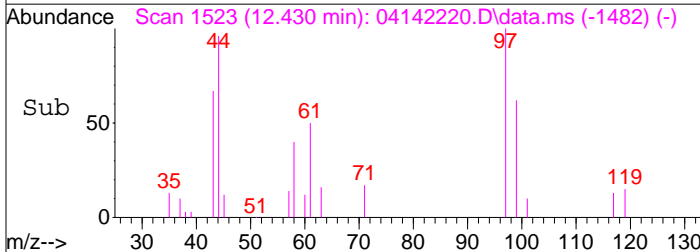
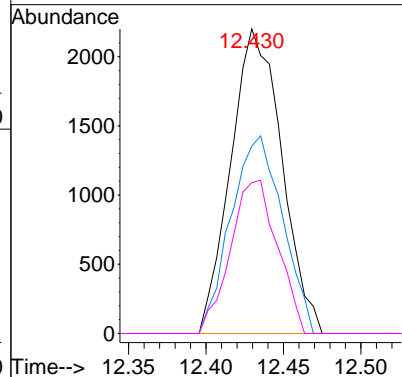
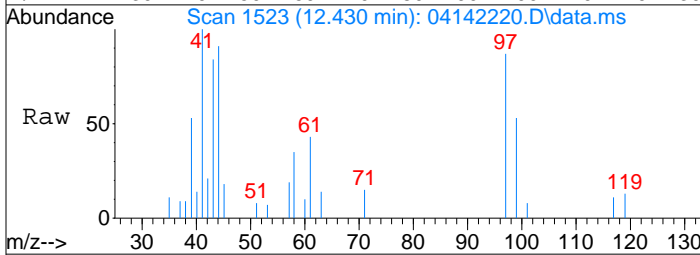
#36
 1,2-Dichloroethane
 Concen: 0.11 ng
 RT: 12.15 min Scan# 1474
 Delta R.T. -0.023 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

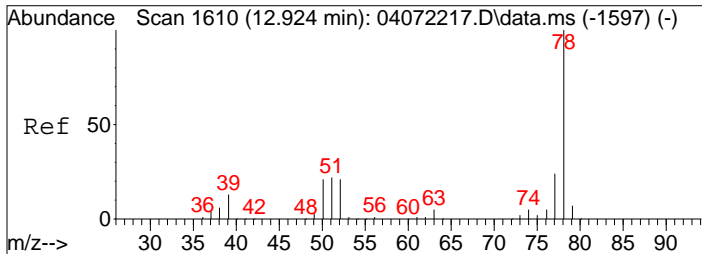
Tgt Ion	Resp	Lower	Upper
62	100		
64	31.4	12.3	52.3



#38
 1,1,1-Trichloroethane
 Concen: 0.22 ng
 RT: 12.43 min Scan# 1523
 Delta R.T. -0.017 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

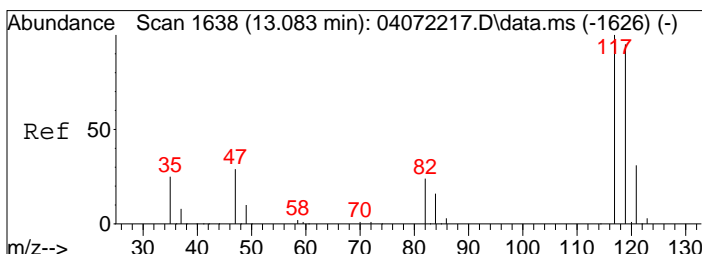
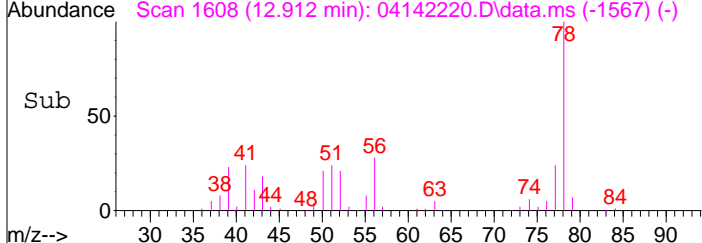
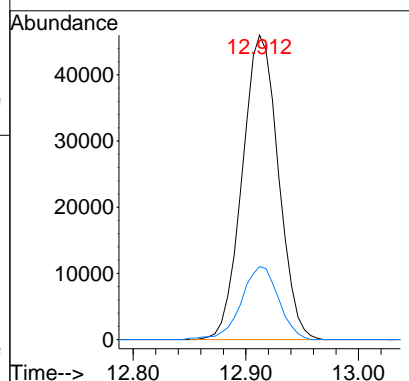
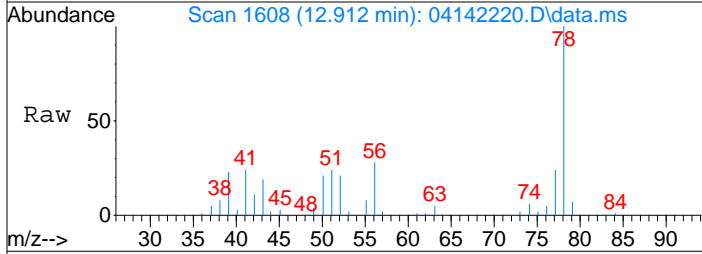
Tgt Ion	Resp	Lower	Upper
97	100		
99	65.5	43.5	83.5
61	46.3	27.7	67.7





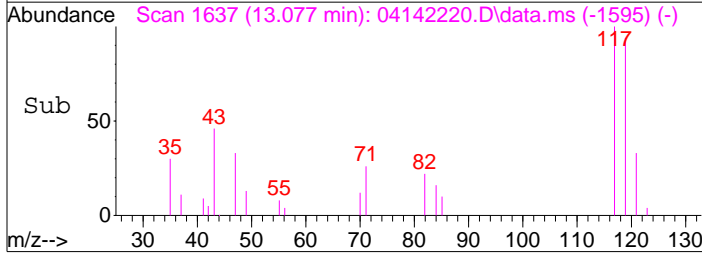
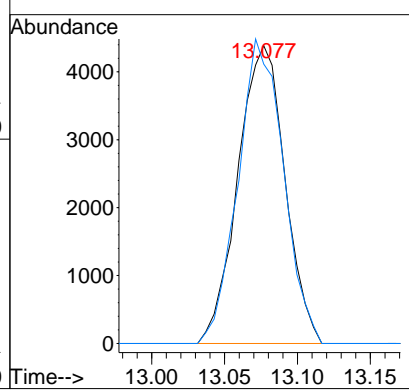
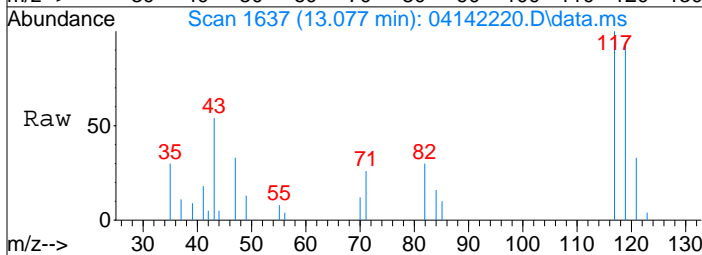
#41
Benzene
Concen: 2.00 ng
RT: 12.91 min Scan# 1608
Delta R.T. -0.017 min
Lab File: 04142220.D
Acq: 14 Apr 2022 17:13

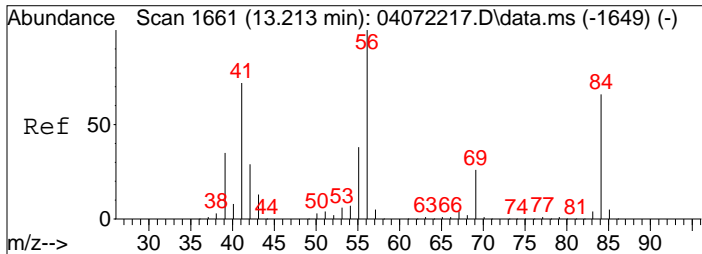
Tgt Ion	Resp	Lower	Upper
78	102599		
77	24.8	3.9	43.9



#42
Carbon Tetrachloride
Concen: 0.50 ng
RT: 13.08 min Scan# 1637
Delta R.T. -0.011 min
Lab File: 04142220.D
Acq: 14 Apr 2022 17:13

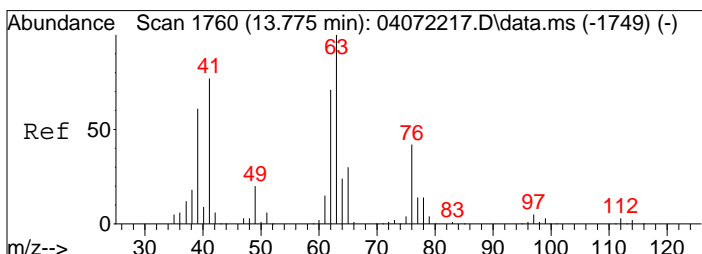
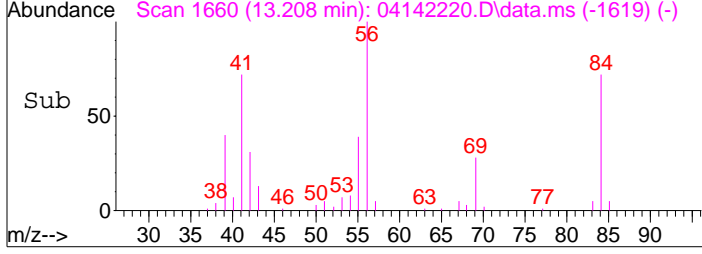
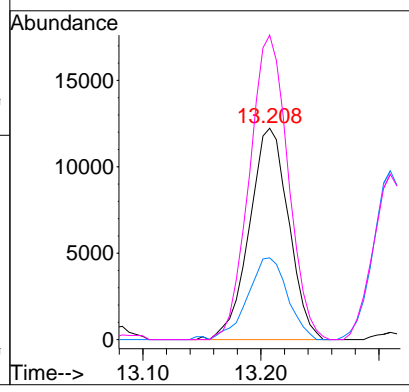
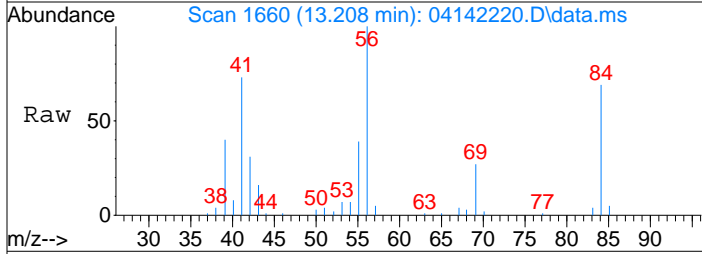
Tgt Ion	Resp	Lower	Upper
117	9850		
119	98.6	75.0	115.0





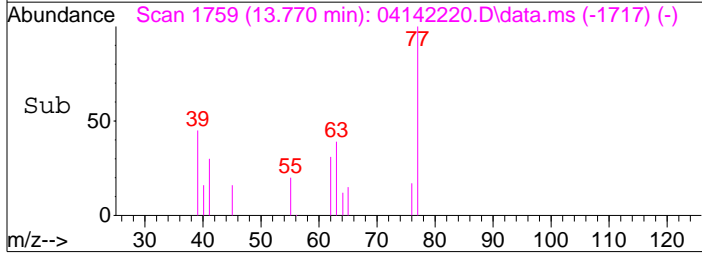
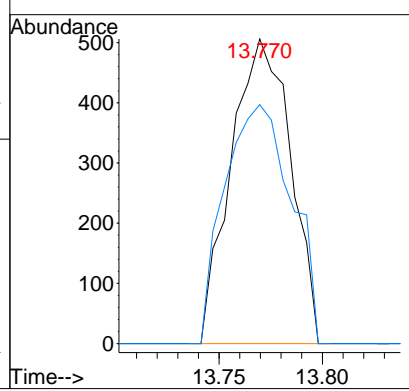
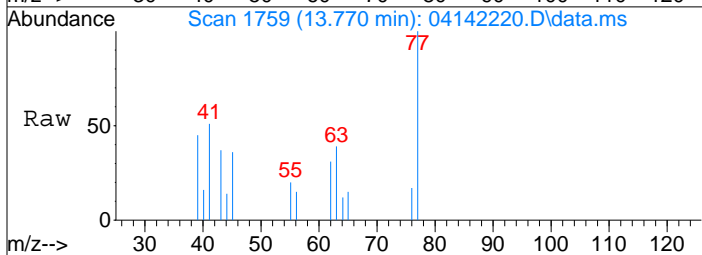
#43
 Cyclohexane
 Concen: 1.44 ng
 RT: 13.21 min Scan# 1660
 Delta R.T. -0.017 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

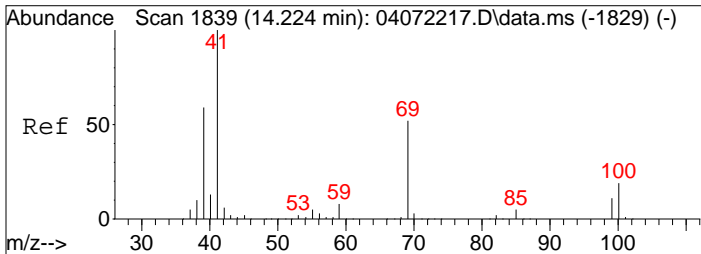
Tgt Ion:	84	Resp:	28255
Ion Ratio	Lower	Upper	
84	100		
69	39.6	18.6	58.6
56	141.8	128.4	168.4



#45
 1,2-Dichloropropane
 Concen: 0.07 ng
 RT: 13.77 min Scan# 1759
 Delta R.T. -0.011 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

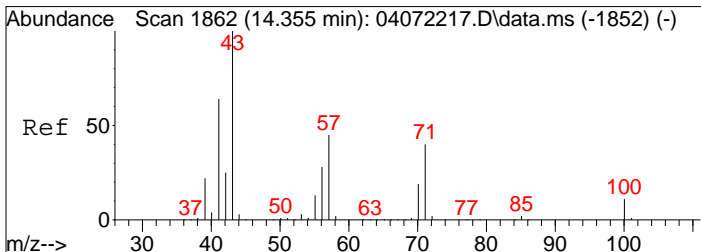
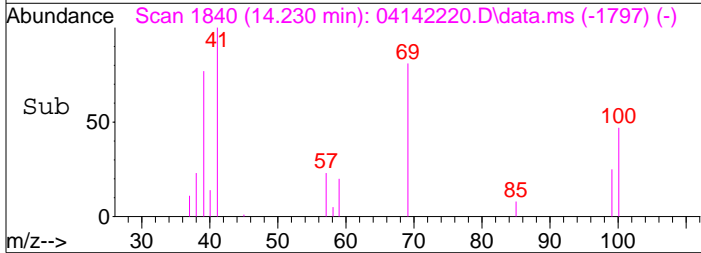
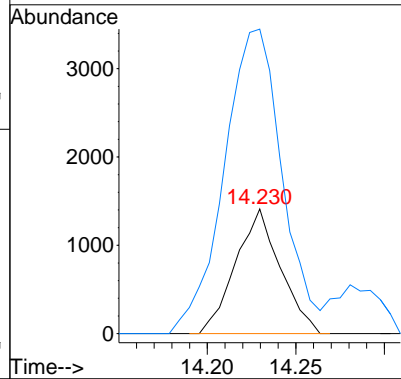
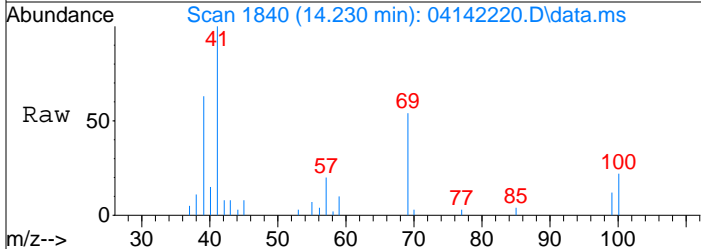
Tgt Ion:	63	Resp:	1015
Ion Ratio	Lower	Upper	
63	100		
62	88.2	52.0	92.0





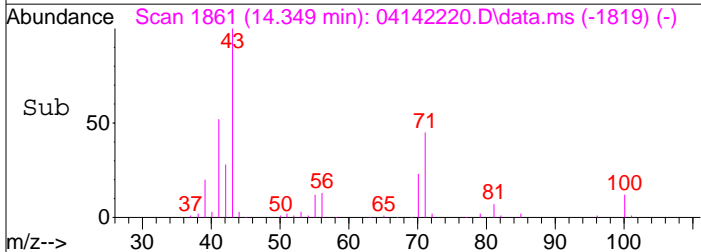
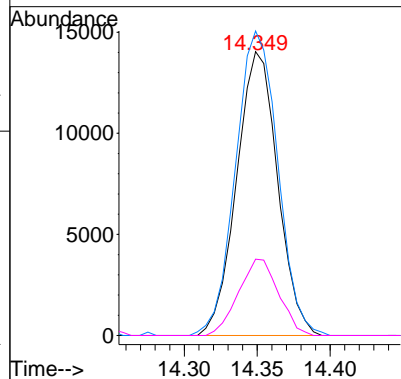
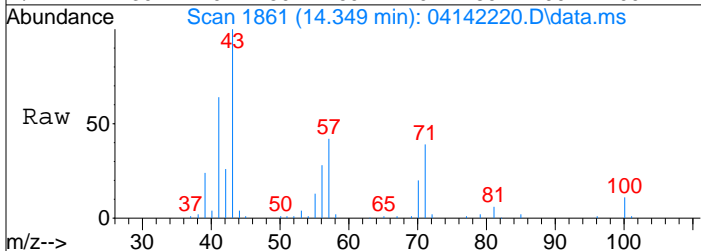
#50
 Methyl Methacrylate
 Concen: 0.48 ng
 RT: 14.23 min Scan# 1840
 Delta R.T. -0.006 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

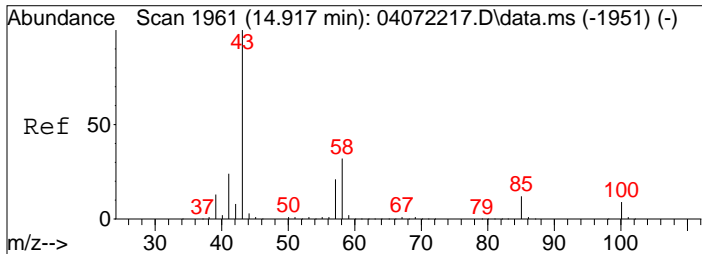
Tgt Ion: 100 Resp: 2483
 Ion Ratio Lower Upper
 100 100
 69 316.0 250.2 290.2#



#51
 n-Heptane
 Concen: 2.06 ng
 RT: 14.35 min Scan# 1861
 Delta R.T. -0.011 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

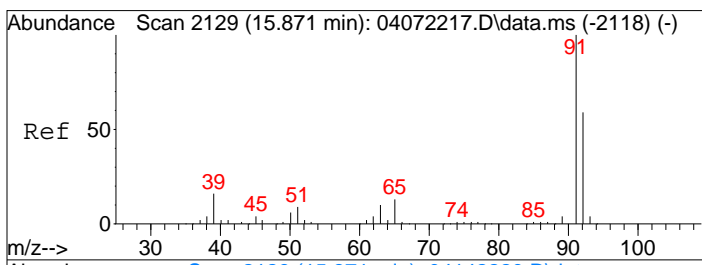
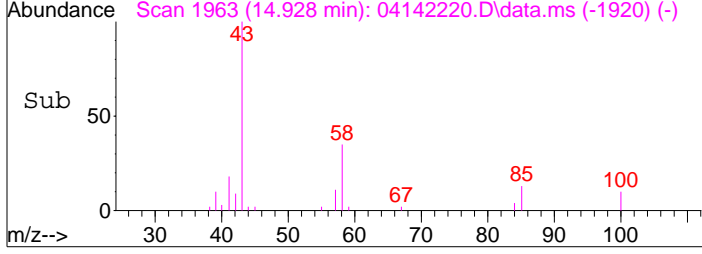
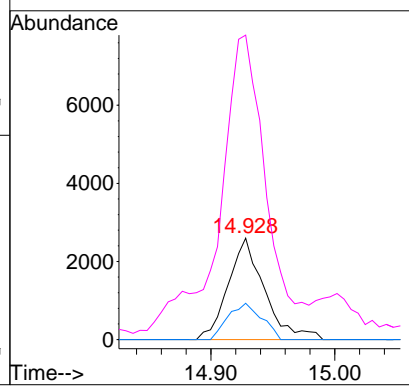
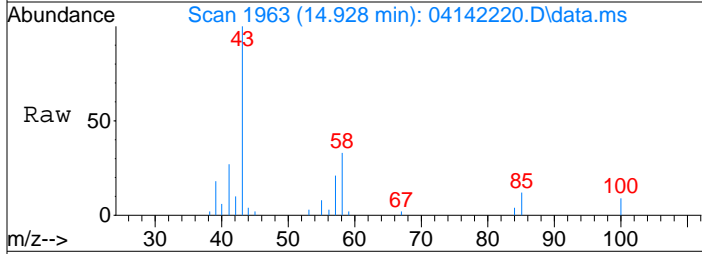
Tgt Ion: 71 Resp: 27485
 Ion Ratio Lower Upper
 71 100
 57 110.5 89.9 129.9
 100 26.3 7.5 47.5





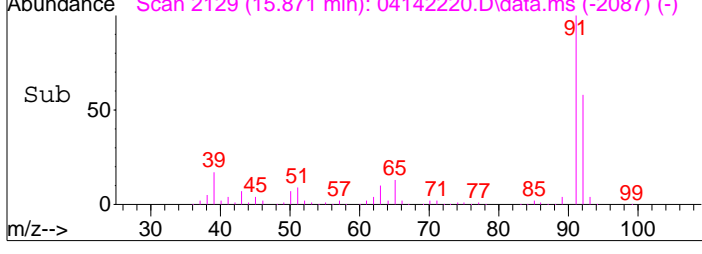
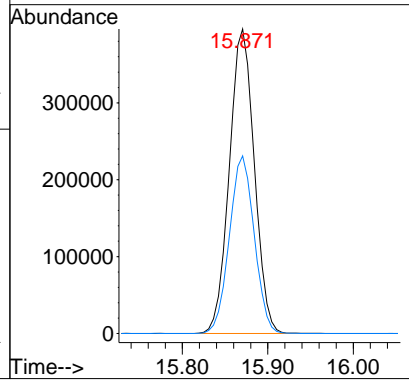
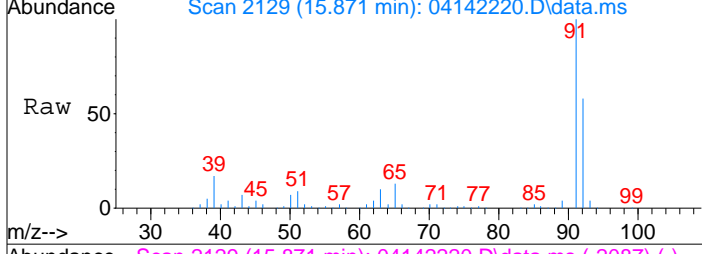
#53
 4-Methyl-2-pentanone
 Concen: 0.37 ng
 RT: 14.93 min Scan# 1963
 Delta R.T. -0.006 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

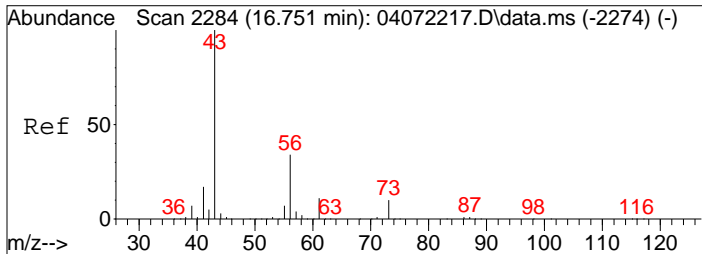
Tgt Ion	Resp	Lower	Upper
58	5293		
58	100		
85	33.2	31.0	46.4
43	376.9	251.1	376.7#



#58
 Toluene
 Concen: 14.11 ng
 RT: 15.87 min Scan# 2129
 Delta R.T. -0.011 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

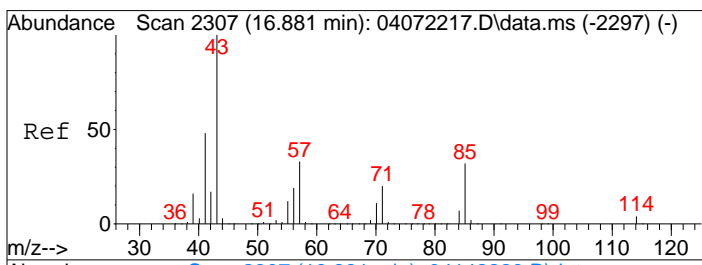
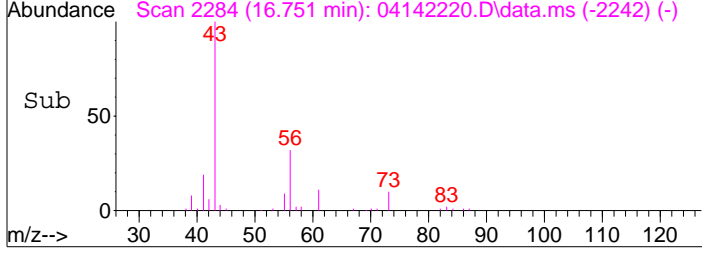
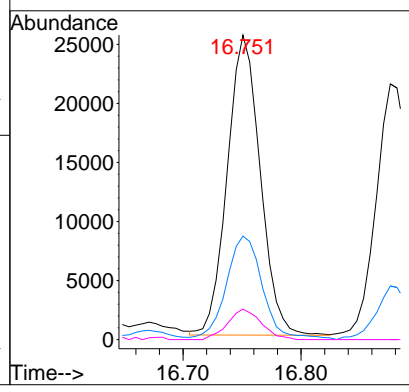
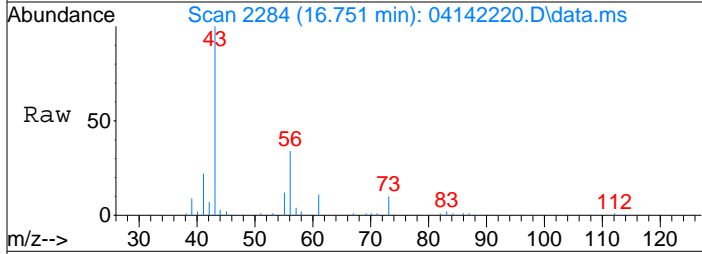
Tgt Ion	Resp	Lower	Upper
91	803743		
91	100		
92	58.0	38.3	78.3





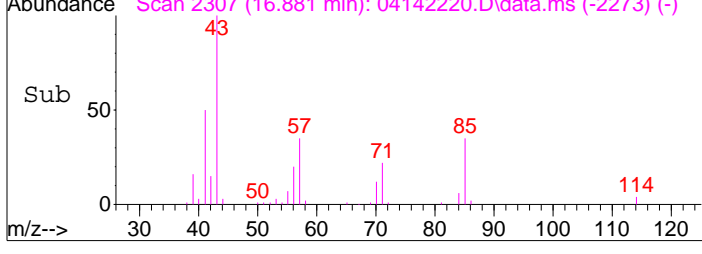
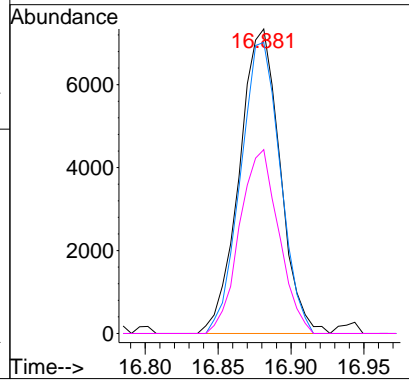
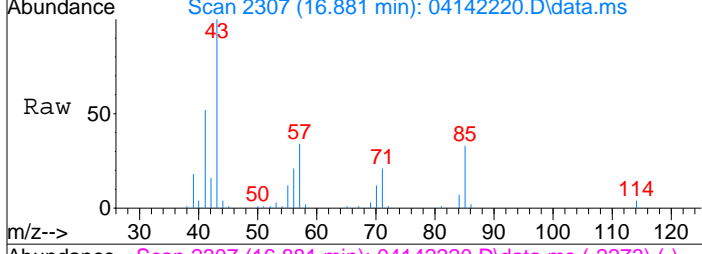
#62
 n-Butyl Acetate
 Concen: 1.03 ng
 RT: 16.75 min Scan# 2284
 Delta R.T. -0.011 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

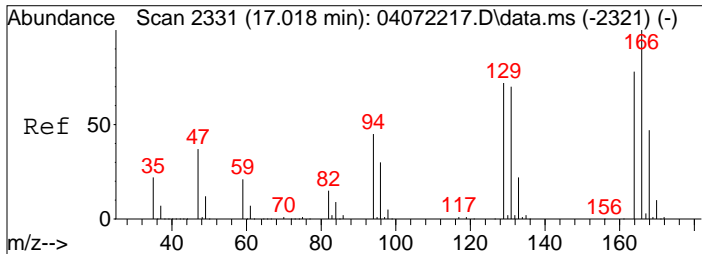
Tgt Ion	Resp	Lower	Upper
43	100		
56	38.1	13.8	53.8
73	10.4	0.0	29.9



#63
 n-Octane
 Concen: 1.00 ng
 RT: 16.88 min Scan# 2307
 Delta R.T. -0.006 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

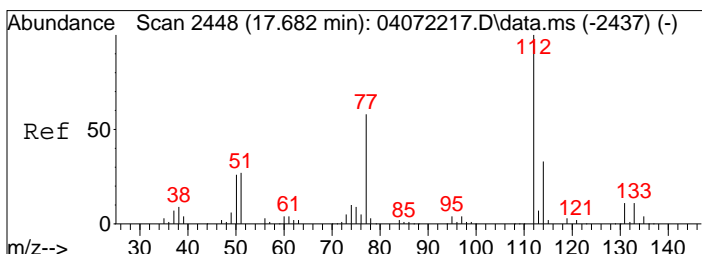
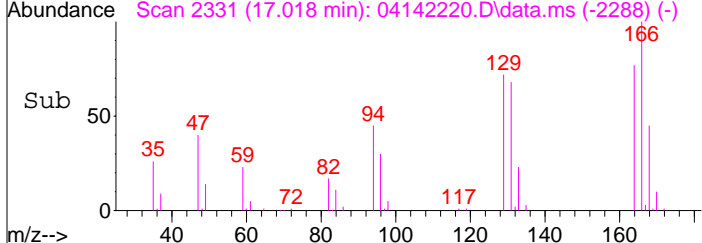
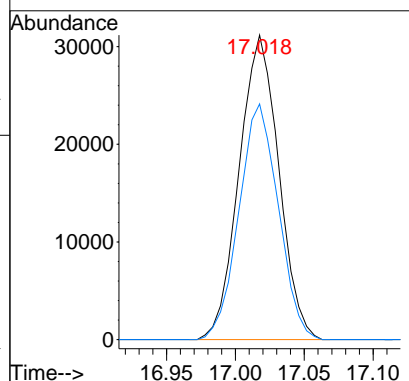
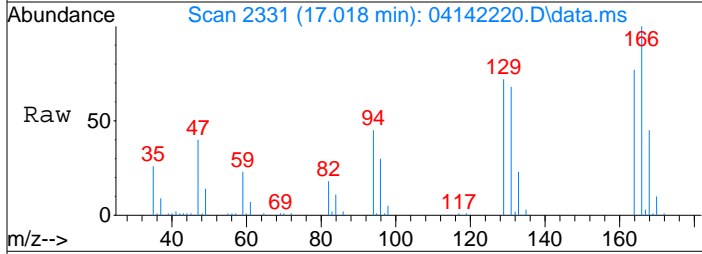
Tgt Ion	Resp	Lower	Upper
57	100		
85	93.1	77.4	116.0
71	58.0	47.0	70.6





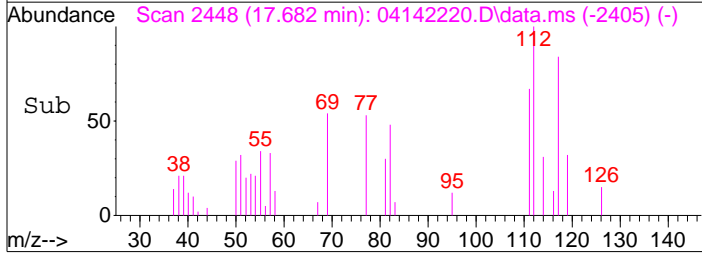
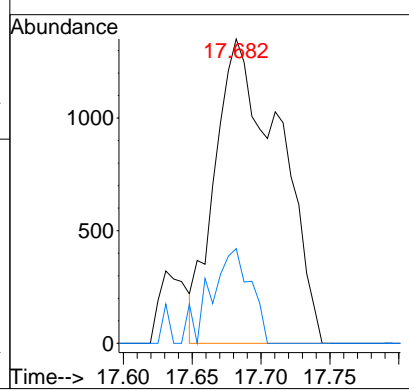
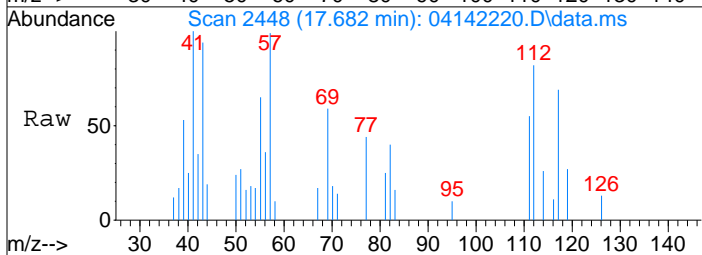
#64
 Tetrachloroethene
 Concen: 3.85 ng
 RT: 17.02 min Scan# 2331
 Delta R.T. -0.006 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

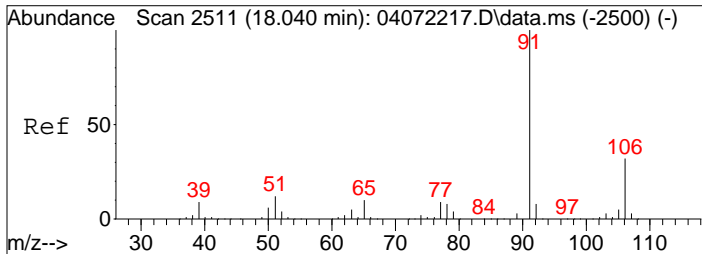
Tgt Ion	Resp	Lower	Upper
166	62464		
166	100		
164	76.9	57.8	97.8



#65
 Chlorobenzene
 Concen: 0.11 ng
 RT: 17.68 min Scan# 2448
 Delta R.T. -0.006 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

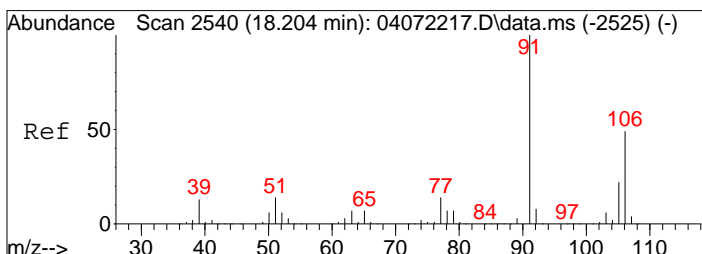
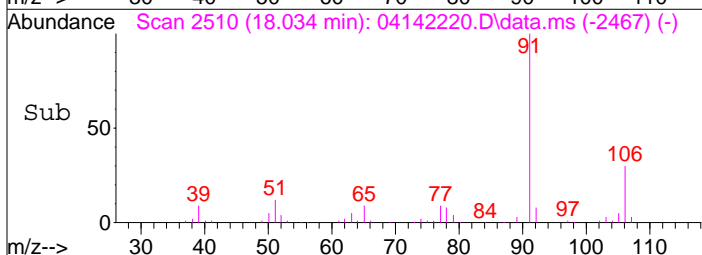
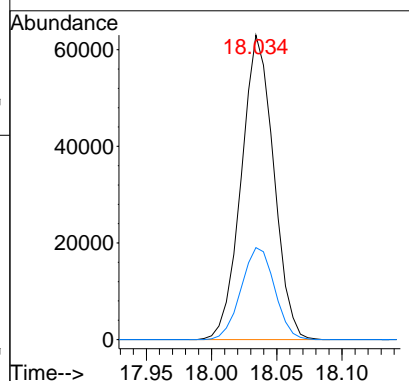
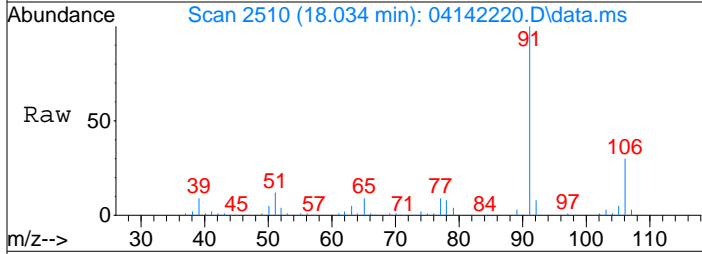
Tgt Ion	Resp	Lower	Upper
112	4400		
112	100		
114	19.2	12.3	52.3





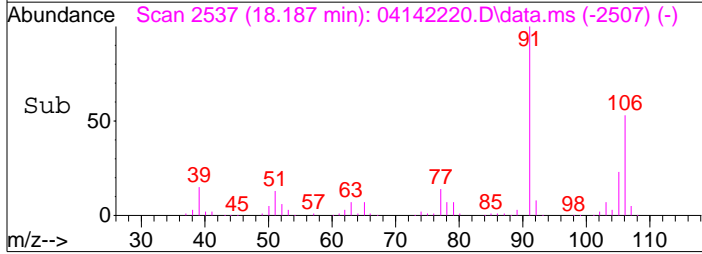
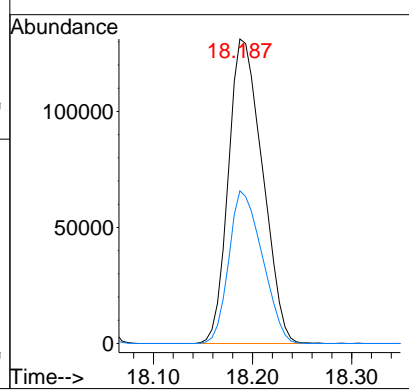
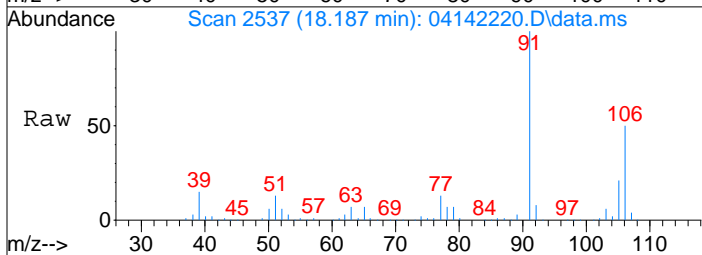
#66
 Ethylbenzene
 Concen: 1.68 ng
 RT: 18.03 min Scan# 2510
 Delta R.T. -0.006 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

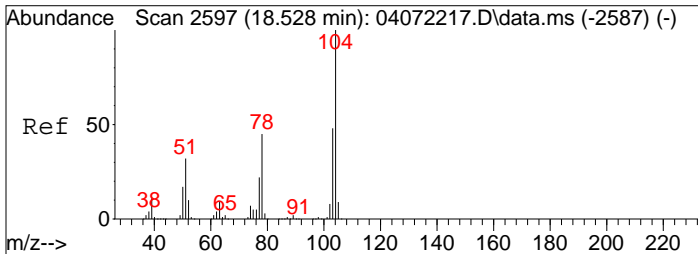
Tgt Ion	Resp	Lower	Upper
91	108811		
106	31.2	11.6	51.6



#67
 m- & p-Xylenes
 Concen: 6.01 ng
 RT: 18.19 min Scan# 2537
 Delta R.T. -0.028 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

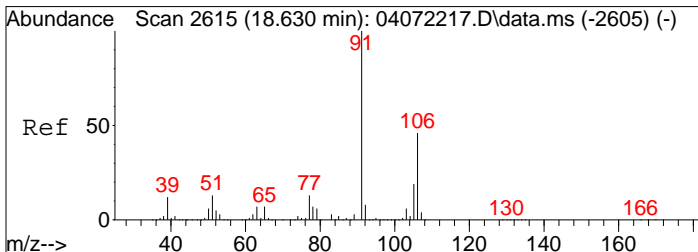
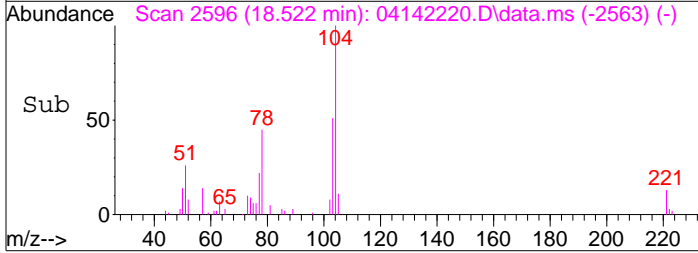
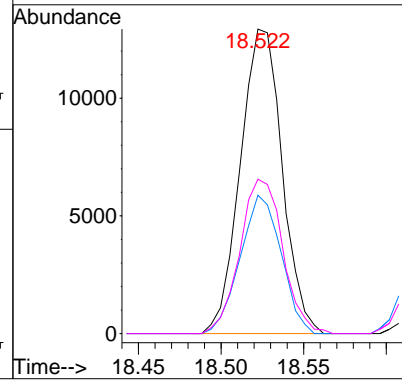
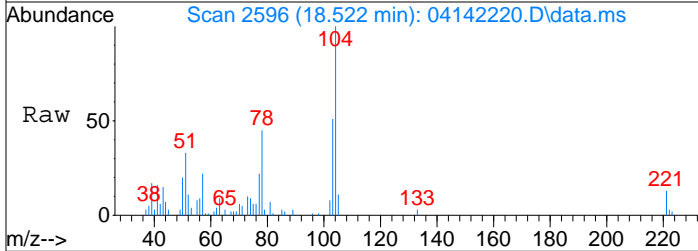
Tgt Ion	Resp	Lower	Upper
91	313353		
106	49.1	28.3	68.3





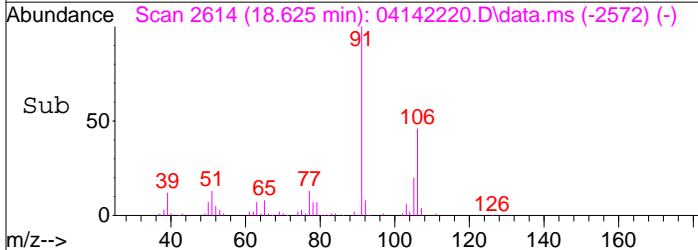
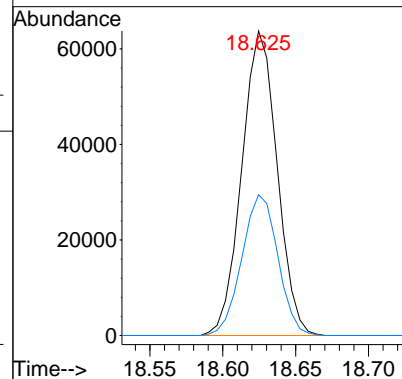
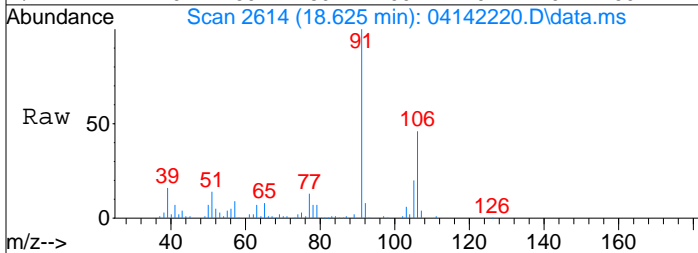
#69
 Styrene
 Concen: 0.61 ng
 RT: 18.52 min Scan# 2596
 Delta R.T. -0.011 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

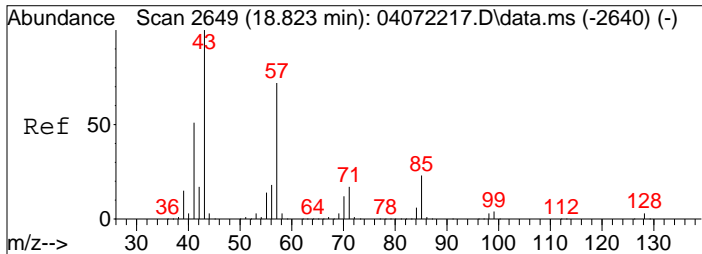
Tgt Ion	Resp	Lower	Upper
104	100		
78	44.5	24.9	64.9
103	52.1	28.2	68.2



#70
 o-Xylene
 Concen: 2.05 ng
 RT: 18.62 min Scan# 2614
 Delta R.T. -0.011 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

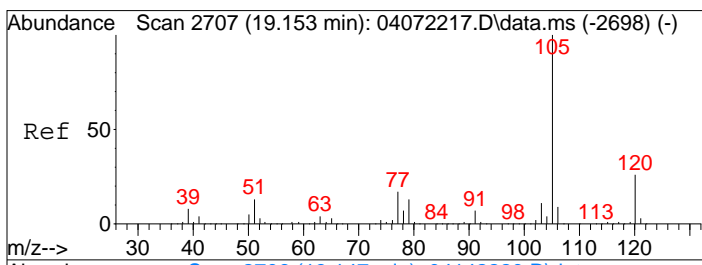
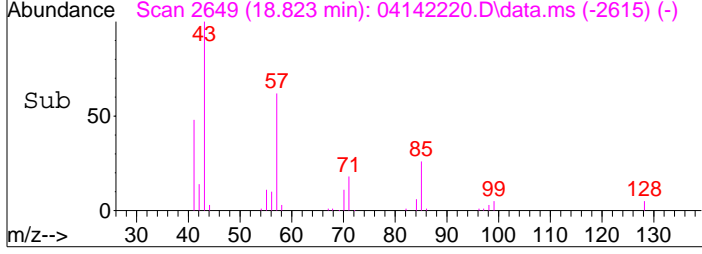
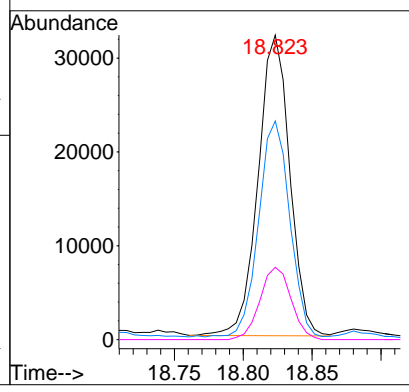
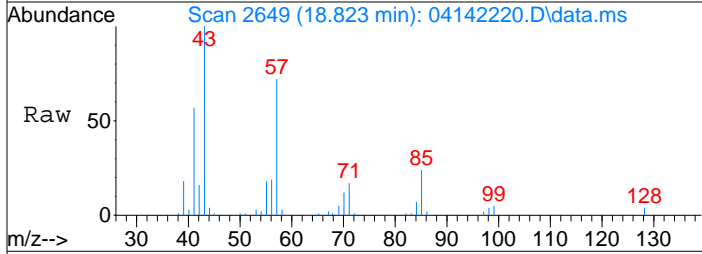
Tgt Ion	Resp	Lower	Upper
91	100		
106	47.1	26.5	66.5





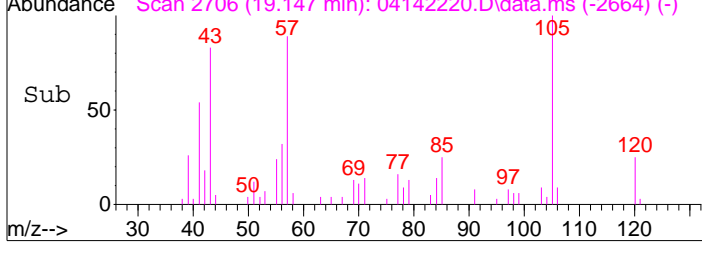
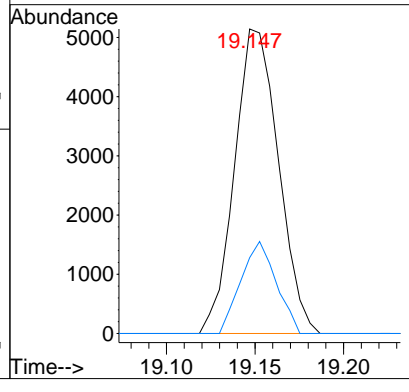
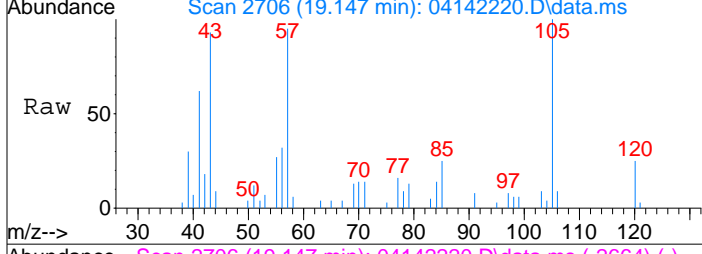
#71
 n-Nonane
 Concen: 1.27 ng
 RT: 18.82 min Scan# 2649
 Delta R.T. -0.006 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

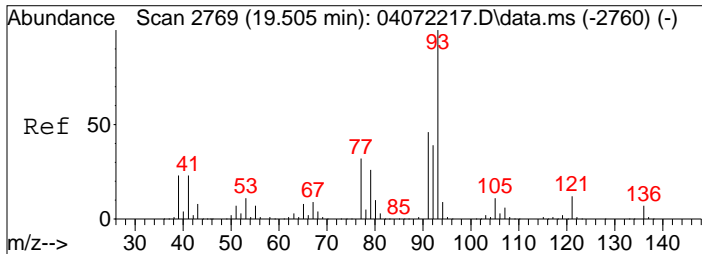
Tgt Ion:	43	57	85	Resp:	51270	Lower	Upper
Ion Ratio	100	70.5	23.7				
		52.5	3.6				
			43.6				



#74
 Cumene
 Concen: 0.13 ng
 RT: 19.15 min Scan# 2706
 Delta R.T. -0.011 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

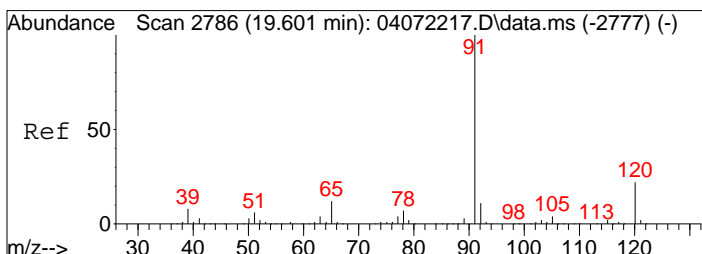
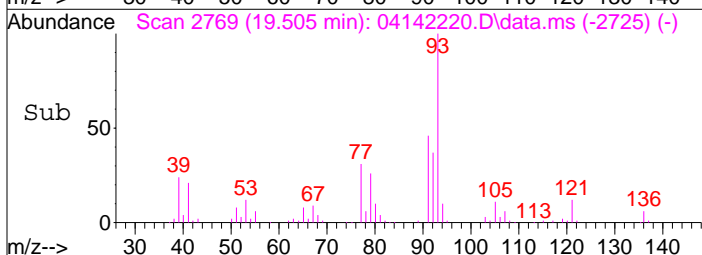
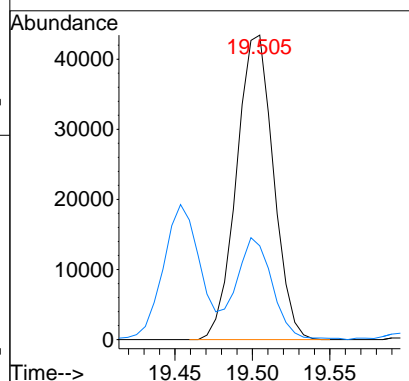
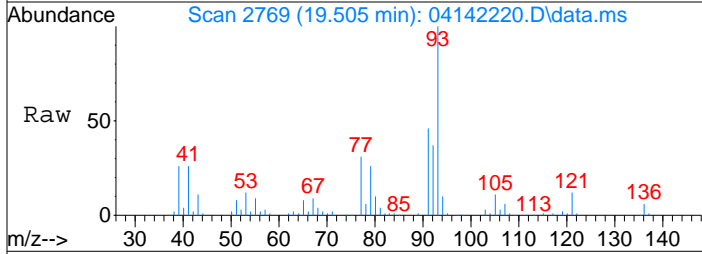
Tgt Ion:	105	120	Resp:	8874	Lower	Upper
Ion Ratio	100	24.3				
		5.9				
		45.9				





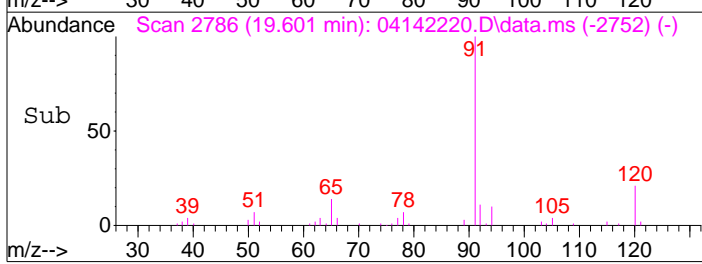
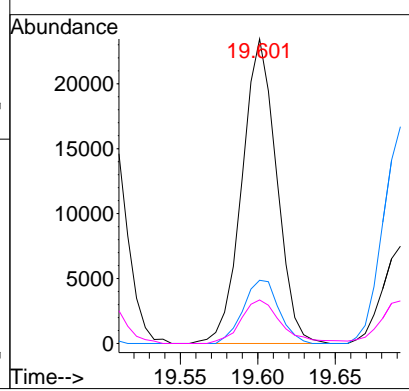
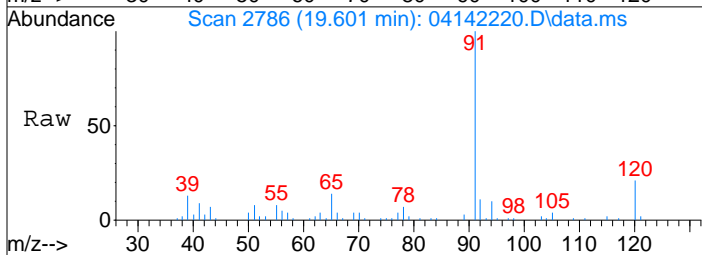
#75
 alpha-Pinene
 Concen: 2.29 ng
 RT: 19.50 min Scan# 2769
 Delta R.T. 0.000 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

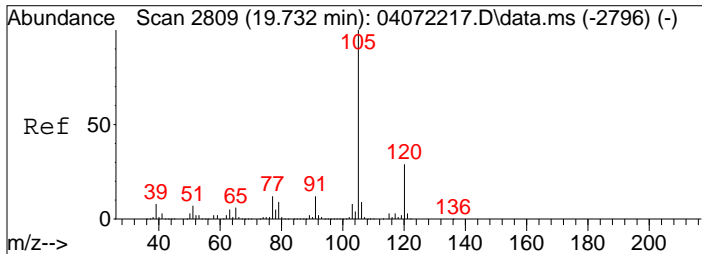
Tgt Ion	Resp	Lower	Upper
93	72071	100	
77	33.1	12.7	52.7



#76
 n-Propylbenzene
 Concen: 0.46 ng
 RT: 19.60 min Scan# 2786
 Delta R.T. -0.006 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

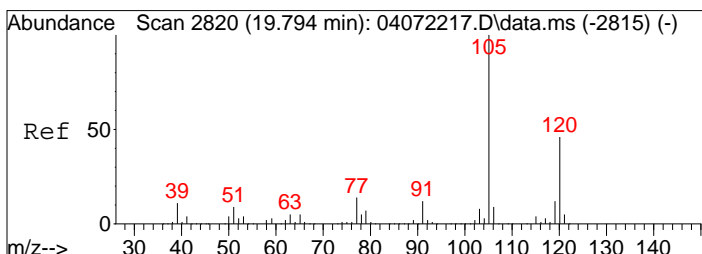
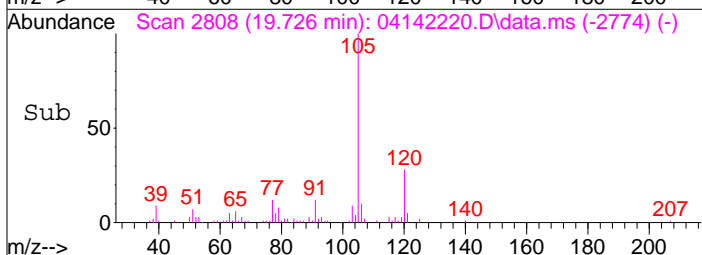
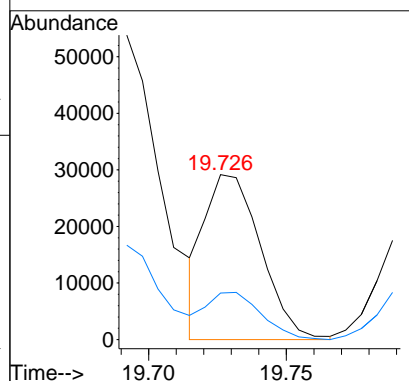
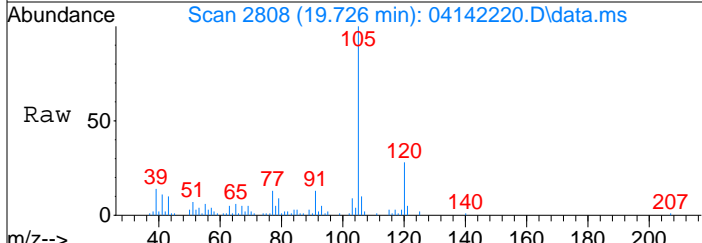
Tgt Ion	Resp	Lower	Upper
91	36540	100	
120	21.5	2.3	42.3
65	16.9	0.0	31.8





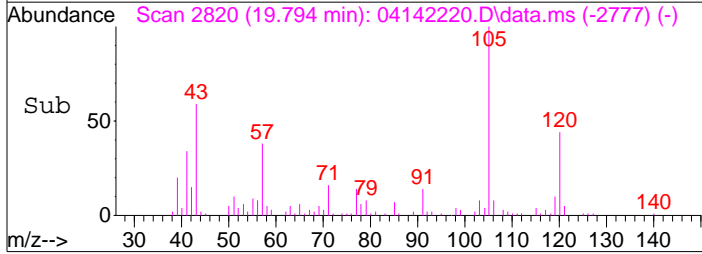
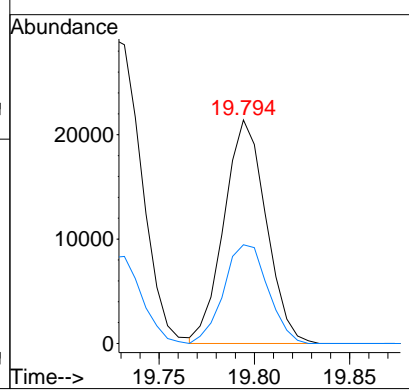
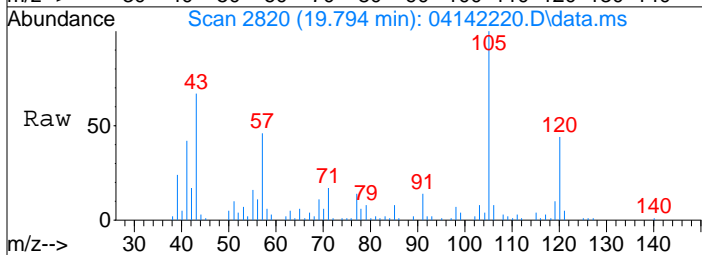
#78
 4-Ethyltoluene
 Concen: 0.64 ng
 RT: 19.73 min Scan# 2808
 Delta R.T. -0.006 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

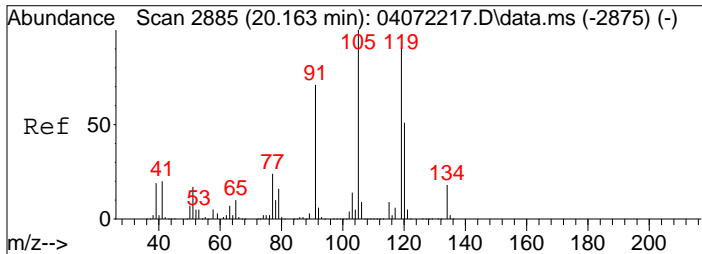
Tgt Ion	Resp	Lower	Upper
105	100		
120	28.2	9.4	49.4



#79
 1,3,5-Trimethylbenzene
 Concen: 0.60 ng
 RT: 19.79 min Scan# 2820
 Delta R.T. -0.006 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

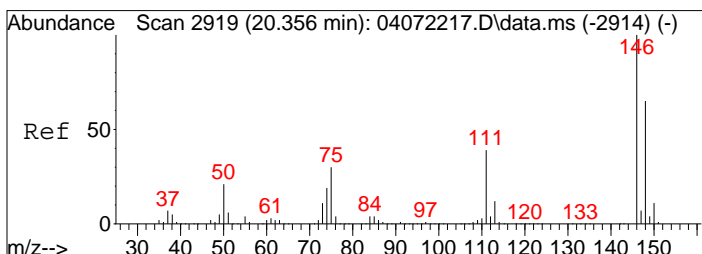
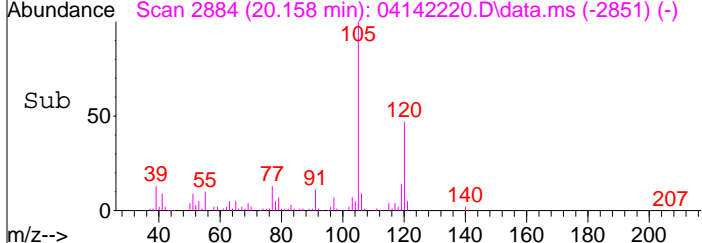
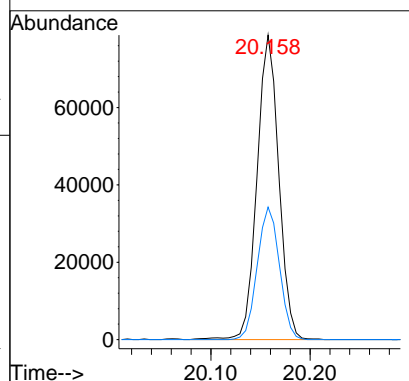
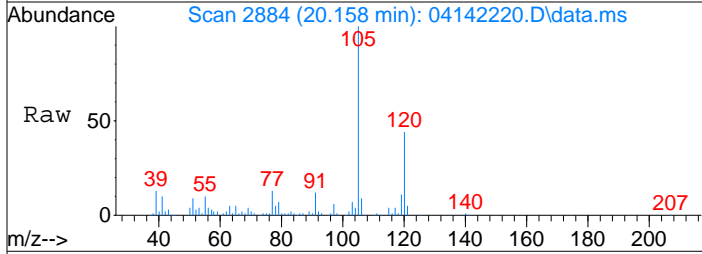
Tgt Ion	Resp	Lower	Upper
105	100		
120	46.2	27.1	67.1





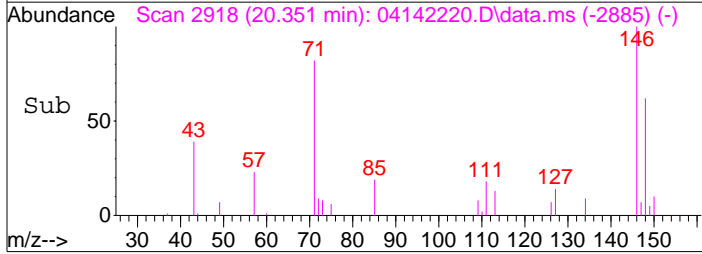
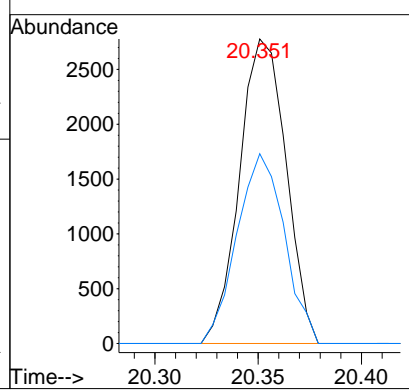
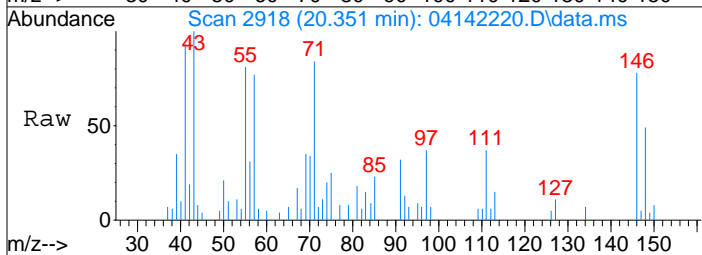
#82
 1,2,4-Trimethylbenzene
 Concen: 2.13 ng
 RT: 20.16 min Scan# 2884
 Delta R.T. -0.011 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

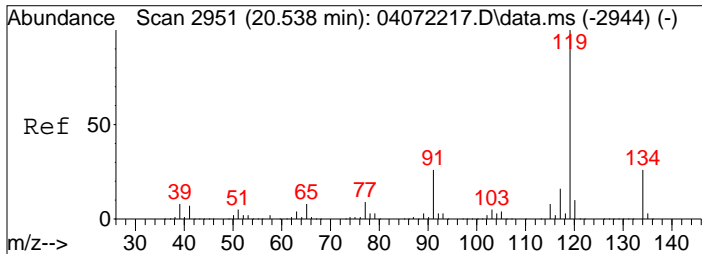
Tgt Ion	Resp	Lower	Upper
105	119947		
105	100		
120	44.2	31.1	71.1



#86
 1,4-Dichlorobenzene
 Concen: 0.13 ng
 RT: 20.35 min Scan# 2918
 Delta R.T. -0.011 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

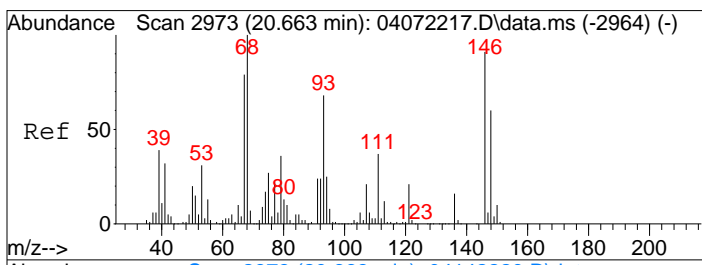
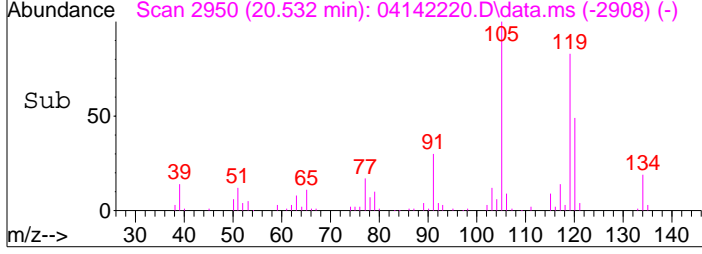
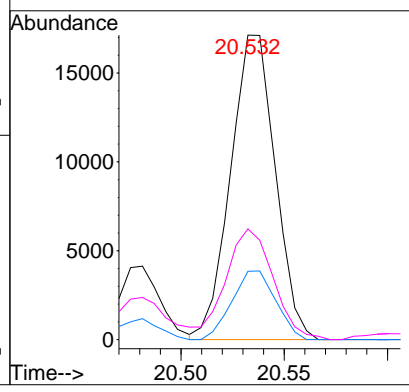
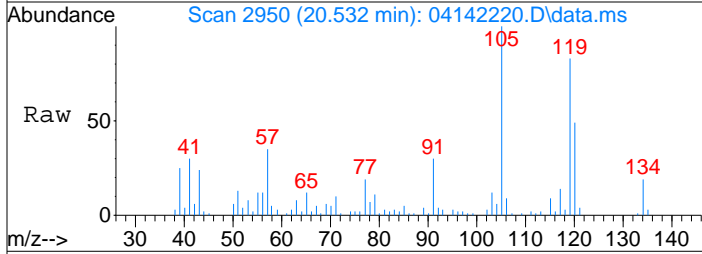
Tgt Ion	Resp	Lower	Upper
146	4364		
146	100		
148	63.4	44.6	84.6





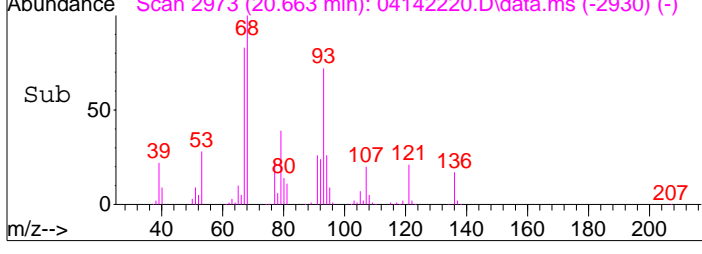
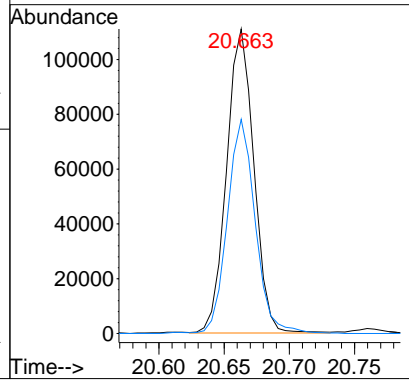
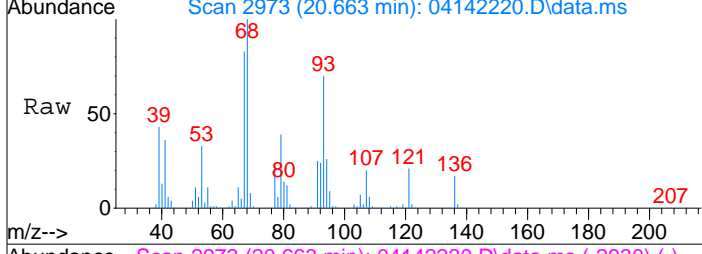
#88
 4-Isopropyltoluene (p-Cymene)
 Concen: 0.41 ng
 RT: 20.53 min Scan# 2950
 Delta R.T. -0.011 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

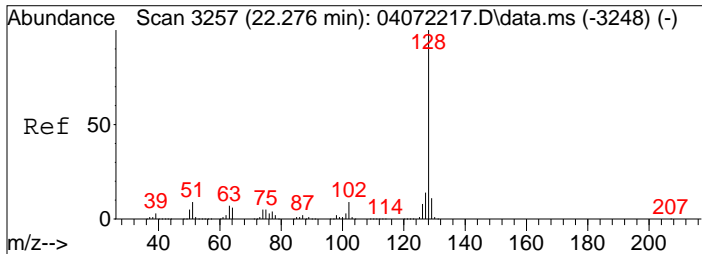
Tgt Ion	Resp	Lower	Upper
119	25813	100	100
134	22.0	6.1	46.1
91	38.8	6.0	46.0



#91
 d-Limonene
 Concen: 7.72 ng
 RT: 20.66 min Scan# 2973
 Delta R.T. -0.006 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

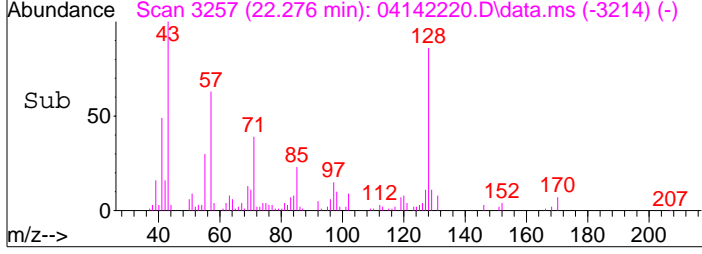
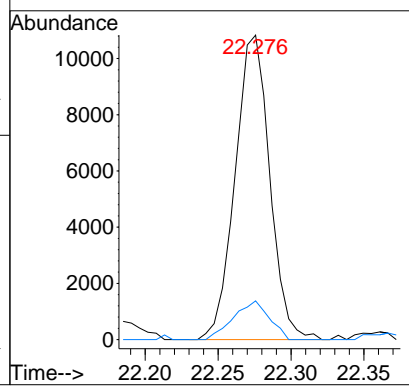
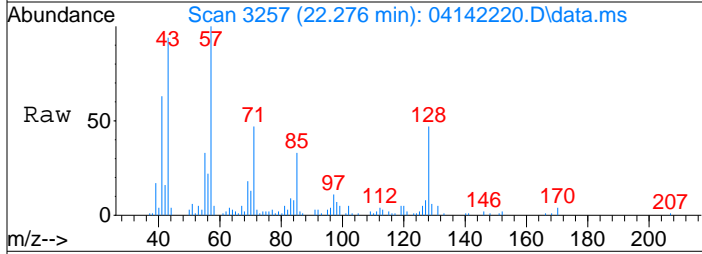
Tgt Ion	Resp	Lower	Upper
68	161480	100	100
93	71.9	48.9	88.9





#95
 Naphthalene
 Concen: 0.25 ng
 RT: 22.28 min Scan# 3257
 Delta R.T. -0.005 min
 Lab File: 04142220.D
 Acq: 14 Apr 2022 17:13

Tgt Ion	Resp	Lower	Upper
128	17894	100	
129	13.1	0.0	31.1



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: NYS Department of Environmental Conservation

Client Sample ID: Building-1-SS2-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02152

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14/22

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.41 Final Pressure (psig): 4.33

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	1.8	0.66	1.0	0.38	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	0.67	0.48	0.14	
74-87-3	Chloromethane	ND	0.26	ND	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.68	ND	0.097	
75-01-4	Vinyl Chloride	ND	0.14	ND	0.054	
106-99-0	1,3-Butadiene	ND	0.26	ND	0.12	
74-83-9	Bromomethane	ND	0.26	ND	0.068	
75-00-3	Chloroethane	ND	0.26	ND	0.10	
64-17-5	Ethanol	17	6.3	8.9	3.3	
75-05-8	Acetonitrile	ND	1.3	ND	0.75	
107-02-8	Acrolein	ND	1.3	ND	0.55	
67-64-1	Acetone	15	6.6	6.1	2.8	
75-69-4	Trichlorofluoromethane (CFC 11)	1.2	0.66	0.21	0.12	
67-63-0	2-Propanol (Isopropyl Alcohol)	5.7	1.3	2.3	0.51	
107-13-1	Acrylonitrile	ND	1.3	ND	0.58	
75-35-4	1,1-Dichloroethene	ND	0.14	ND	0.035	
75-09-2	Methylene Chloride	ND	0.66	ND	0.19	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.67	ND	0.21	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.68	ND	0.089	
75-15-0	Carbon Disulfide	ND	1.4	ND	0.45	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	ND	0.035	
75-34-3	1,1-Dichloroethane	ND	0.14	ND	0.034	
1634-04-4	Methyl tert-Butyl Ether	ND	0.67	ND	0.19	
108-05-4	Vinyl Acetate	ND	6.3	ND	1.8	
78-93-3	2-Butanone (MEK)	2.0	1.3	0.67	0.43	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3

Client: NYS Department of Environmental Conservation

Client Sample ID: Building-1-SS2-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-004

Test Code: EPA TO-15

Date Collected: 4/7/22

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 4/8/22

Analyst: Simon Cao

Date Analyzed: 4/14/22

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC02152

Initial Pressure (psig): 0.41 Final Pressure (psig): 4.33

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.14	ND	0.035	
141-78-6	Ethyl Acetate	63	2.6	18	0.73	
110-54-3	n-Hexane	1.3	0.67	0.38	0.19	
67-66-3	Chloroform	0.33	0.14	0.067	0.028	
109-99-9	Tetrahydrofuran (THF)	2.2	1.3	0.74	0.43	
107-06-2	1,2-Dichloroethane	ND	0.14	ND	0.034	
71-55-6	1,1,1-Trichloroethane	0.41	0.14	0.076	0.025	
71-43-2	Benzene	0.93	0.14	0.29	0.043	
56-23-5	Carbon Tetrachloride	0.69	0.14	0.11	0.022	
110-82-7	Cyclohexane	ND	1.4	ND	0.40	
78-87-5	1,2-Dichloropropane	ND	0.14	ND	0.030	
75-27-4	Bromodichloromethane	ND	0.14	ND	0.021	
79-01-6	Trichloroethene	ND	0.14	ND	0.026	
123-91-1	1,4-Dioxane	ND	0.66	ND	0.18	
80-62-6	Methyl Methacrylate	ND	1.4	ND	0.34	
142-82-5	n-Heptane	1.1	0.67	0.26	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.67	ND	0.15	
108-10-1	4-Methyl-2-pentanone	ND	1.4	ND	0.34	
10061-02-6	trans-1,3-Dichloropropene	ND	0.64	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.14	ND	0.025	
108-88-3	Toluene	8.5	0.66	2.2	0.17	
591-78-6	2-Hexanone	ND	1.4	ND	0.34	
124-48-1	Dibromochloromethane	ND	0.14	ND	0.016	
106-93-4	1,2-Dibromoethane	ND	0.14	ND	0.018	
123-86-4	n-Butyl Acetate	ND	1.4	ND	0.29	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3 of 3

Client: NYS Department of Environmental Conservation

Client Sample ID: Building-1-SS2-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-004

Test Code: EPA TO-15

Date Collected: 4/7/22

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 4/8/22

Analyst: Simon Cao

Date Analyzed: 4/14/22

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC02152

Initial Pressure (psig): 0.41 Final Pressure (psig): 4.33

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.67	ND	0.14	
127-18-4	Tetrachloroethene	12	0.14	1.7	0.020	
108-90-7	Chlorobenzene	ND	0.66	ND	0.14	
100-41-4	Ethylbenzene	1.1	0.66	0.25	0.15	
179601-23-1	m,p-Xylenes	4.3	1.4	0.99	0.32	
75-25-2	Bromoform	ND	0.66	ND	0.063	
100-42-5	Styrene	ND	0.66	ND	0.15	
95-47-6	o-Xylene	1.4	0.66	0.33	0.15	
111-84-2	n-Nonane	ND	0.66	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	ND	0.020	
98-82-8	Cumene	ND	0.66	ND	0.13	
80-56-8	alpha-Pinene	ND	0.68	ND	0.12	
103-65-1	n-Propylbenzene	ND	0.67	ND	0.14	
622-96-8	4-Ethyltoluene	ND	0.67	ND	0.14	
108-67-8	1,3,5-Trimethylbenzene	ND	0.66	ND	0.13	
95-63-6	1,2,4-Trimethylbenzene	1.0	0.66	0.21	0.13	
100-44-7	Benzyl Chloride	ND	1.4	ND	0.27	
541-73-1	1,3-Dichlorobenzene	ND	0.66	ND	0.11	
106-46-7	1,4-Dichlorobenzene	ND	0.66	ND	0.11	
95-50-1	1,2-Dichlorobenzene	ND	0.67	ND	0.11	
5989-27-5	d-Limonene	1.2	0.66	0.21	0.12	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.3	ND	0.13	
120-82-1	1,2,4-Trichlorobenzene	ND	1.3	ND	0.17	
91-20-3	Naphthalene	ND	0.66	ND	0.13	
87-68-3	Hexachlorobutadiene	ND	0.66	ND	0.061	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Data File : I:\MS09\DATA\2022 04\14\04142221.D
 Acq On : 14 Apr 2022 17:46
 Sample : P2201602-004 (1000mL)
 Misc : S35-04132201

Vial: 6
 Operator: SC
 Inst : MS09

Quant Time: Apr 15 01:32:24 2022

LH 4/15/22

Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	11.17	130	146351	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	13.31	114	655278	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.64	54	168122	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.03	65	291976	13.043	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	104.32%	
57) Toluene-d8 (SS2)	15.77	98	765919	12.503	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	100.00%	
73) Bromofluorobenzene (SS3)	19.03	174	237084	10.989	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	87.92%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.05	42	28138	1.393	ng	91
3) Dichlorodifluoromethan...	4.21	85	52323	1.893	ng	100
4) Chloromethane	4.50	50	3148	0.137	ng	88
5) 1,2-Dichloro-1,1,2,2-t...	4.77	135	988	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.20	54	291	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.31	45	196825	13.360	ng	99
11) Acetonitrile	6.59	41	3346m	0.091	ng	
12) Acrolein	6.79	56	6442	0.713	ng	100
13) Acetone	6.99	58	134149	11.567	ng	# 79
14) Trichlorofluoromethane	7.24	101	23705	0.920	ng	99
15) 2-Propanol (Isopropanol)	7.48	45	206279	4.500	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	8.43	84	3064	0.254	ng	94
20) 3-Chloro-1-propene (Al...	8.61	41	545	N.D.		
21) Trichlorotrifluoroethane	8.87	151	4110	0.373	ng	92
22) Carbon Disulfide	8.70	76	17505	0.431	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	10.12	73	506	N.D.		
26) Vinyl Acetate	10.20	86	7428	3.562	ng	97
27) 2-Butanone (MEK)	10.49	72	12683	1.565	ng	# 88
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	11.30	61	291312	50.346	ng	97
31) n-Hexane	11.29	57	27344	1.049	ng	97
32) Chloroform	11.34	83	5832	0.258	ng	98
34) Tetrahydrofuran (THF)	11.77	72	13440	1.729	ng	# 77
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	12.16	62	466	N.D.		
38) 1,1,1-Trichloroethane	12.44	97	7372	0.329	ng	97
39) Isopropyl Acetate	13.31	61	23086	No Calib		
40) 1-Butanol	12.90	56	26147	No Calib	#	
41) Benzene	12.91	78	37456	0.738	ng	98
42) Carbon Tetrachloride	13.08	117	10605	0.544	ng	98
43) Cyclohexane	13.21	84	9571	0.492	ng	96
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	13.78	63	186	N.D.		
46) Bromodichloromethane	13.98	83	864	N.D.		
47) Trichloroethene	14.01	130	1015	N.D.		
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	14.24	100	431	N.D.		

Data File : I:\MS09\DATA\2022 04\14\04142221.D
 Acq On : 14 Apr 2022 17:46
 Sample : P2201602-004 (1000mL)
 Misc : S35-04132201

Vial: 6
 Operator: SC
 Inst : MS09

Quant Time: Apr 15 01:32:24 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

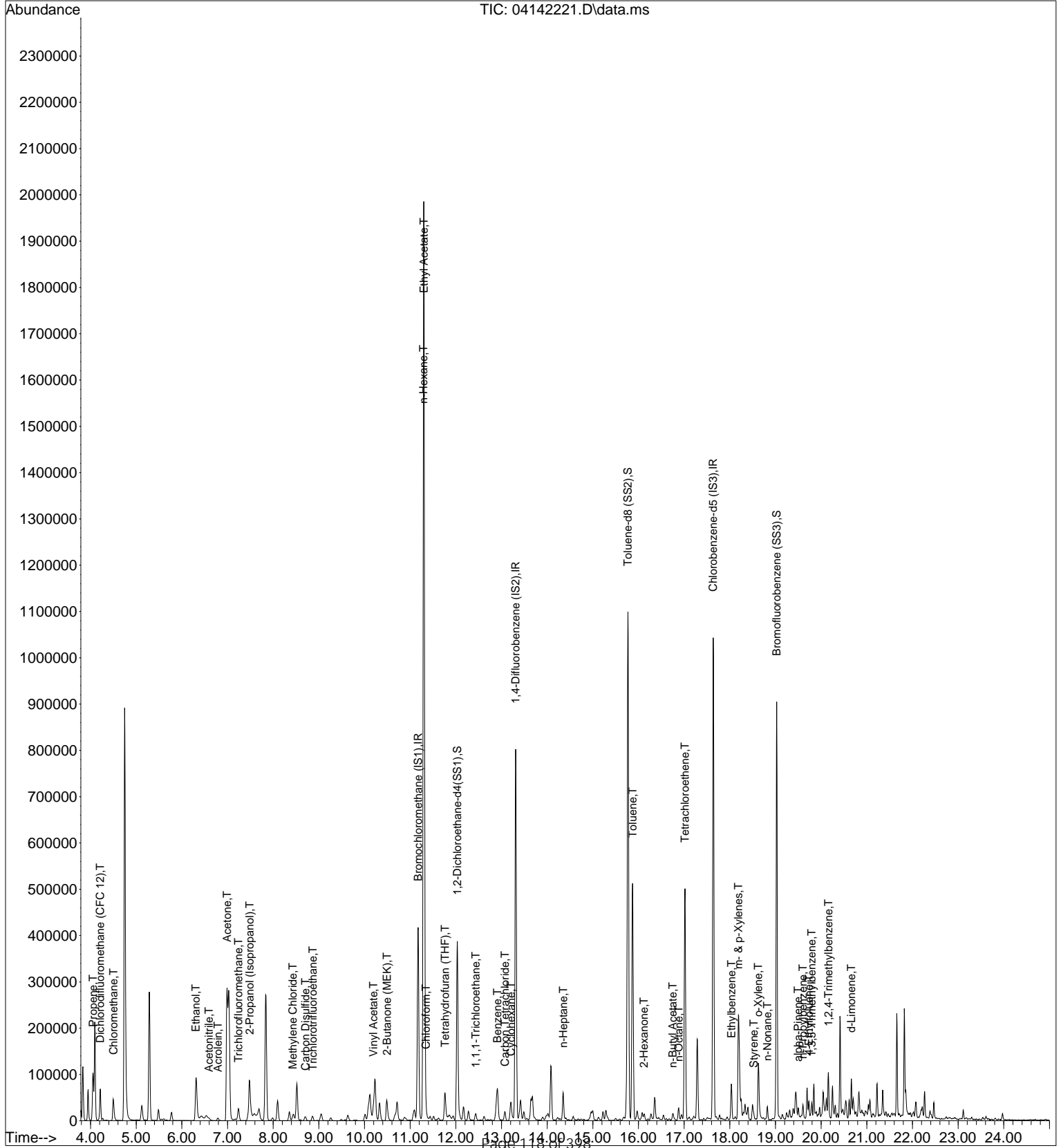
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.35	71	11406	0.861	ng	98
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.	d	
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.87	91	377960	6.710	ng	99
59) 2-Hexanone	16.12	43	9041	0.208	ng	77
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.75	43	13380	0.283	ng	99
63) n-Octane	16.88	57	4700	0.333	ng	98
64) Tetrachloroethene	17.02	166	150574	9.385	ng	99
65) Chlorobenzene	17.71	112	223	N.D.		
66) Ethylbenzene	18.03	91	56237	0.877	ng	100
67) m- & p-Xylenes	18.19	91	175499	3.406	ng	99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.53	104	3998	0.109	ng	97
70) o-Xylene	18.62	91	58285	1.121	ng	100
71) n-Nonane	18.82	43	12194	0.306	ng	96
72) 1,1,2,2-Tetrachloroethane	18.64	83	401	N.D.		
74) Cumene	19.15	105	3554	N.D.		
75) alpha-Pinene	19.50	93	8093	0.260	ng	98
76) n-Propylbenzene	19.60	91	14475	0.184	ng	86
77) 3-Ethyltoluene	19.73	105	17291	No Calib		
78) 4-Ethyltoluene	19.73	105	17291	0.272	ng	98
79) 1,3,5-Trimethylbenzene	19.79	105	12392	0.230	ng	100
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.67	105	1194	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.16	105	46260	0.832	ng	91
83) n-Decane	20.54	58	803	No Calib	#	
84) Benzyl Chloride	20.36	91	937	N.D.		
85) 1,3-Dichlorobenzene	20.36	146	590	N.D.		
86) 1,4-Dichlorobenzene	20.36	146	590	N.D.		
87) sec-Butylbenzene	20.40	105	1458	N.D.		
88) 4-Isopropyltoluene (p-...	20.53	119	5264	N.D.		
89) 1,2,3-Trimethylbenzene	20.40	105	1458	No Calib	#	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	20.66	68	19126	0.925	ng	97
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	21.34	58	953	No Calib		
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	22.28	128	5432	N.D.		
96) n-Dodecane	22.26	58	802	No Calib	#	
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	18.64	55	4215	No Calib	#	
99) tert-Butylbenzene	0.00	119	0	N.D.	d	
100) n-Butylbenzene	20.90	91	3984	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\2022 04\14\04142221.D
 Acq On : 14 Apr 2022 17:46
 Sample : P2201602-004 (1000mL)
 Misc : S35-04132201

Vial: 6
 Operator: SC
 Inst : MS09

Quant Time: Apr 15 01:32:24 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2022 04\14\04142221.D
 Acq On : 14 Apr 2022 17:46
 Sample : P2201602-004 (1000mL)
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Quant Time: Apr 15 01:32:24 2022

LH 4/15/22

Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	11.17	130	146351	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	13.31	114	655278	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.64	54	168122	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.03	65	291976	13.043	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	104.32%	
57) Toluene-d8 (SS2)	15.77	98	765919	12.503	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	100.00%	
73) Bromofluorobenzene (SS3)	19.03	174	237084	10.989	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	87.92%	

Target Compounds

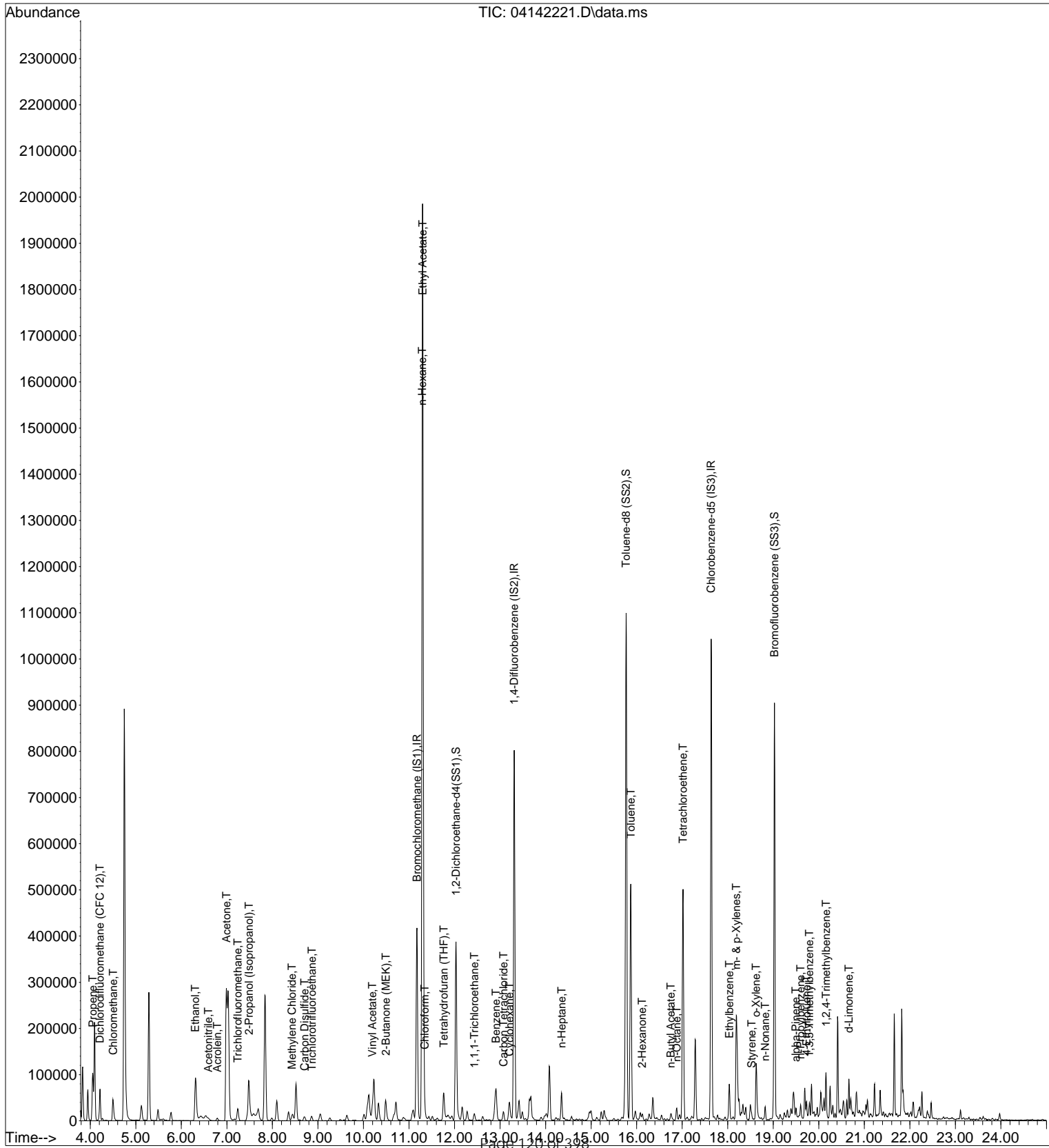
	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.05	42	28138	1.393	ng	91
3) Dichlorodifluoromethan...	4.21	85	52323	1.893	ng	100
4) Chloromethane	4.50	50	3148	0.137	ng	88
10) Ethanol	6.31	45	196825	13.360	ng	99
11) Acetonitrile	6.59	41	3346m	0.091	ng	
12) Acrolein	6.79	56	6442	0.713	ng	100
13) Acetone	6.99	58	134149	11.567	ng	# 79
14) Trichlorofluoromethane	7.24	101	23705	0.920	ng	99
15) 2-Propanol (Isopropanol)	7.48	45	206279	4.500	ng	99
19) Methylene Chloride	8.43	84	3064	0.254	ng	94
21) Trichlorotrifluoroethane	8.87	151	4110	0.373	ng	92
22) Carbon Disulfide	8.70	76	17505	0.431	ng	96
26) Vinyl Acetate	10.20	86	7428	3.562	ng	97
27) 2-Butanone (MEK)	10.49	72	12683	1.565	ng	# 88
30) Ethyl Acetate	11.30	61	291312	50.346	ng	97
31) n-Hexane	11.29	57	27344	1.049	ng	97
32) Chloroform	11.34	83	5832	0.258	ng	98
34) Tetrahydrofuran (THF)	11.77	72	13440	1.729	ng	# 77
38) 1,1,1-Trichloroethane	12.44	97	7372	0.329	ng	97
41) Benzene	12.91	78	37456	0.738	ng	98
42) Carbon Tetrachloride	13.08	117	10605	0.544	ng	98
43) Cyclohexane	13.21	84	9571	0.492	ng	96
51) n-Heptane	14.35	71	11406	0.861	ng	98
58) Toluene	15.87	91	377960	6.710	ng	99
59) 2-Hexanone	16.12	43	9041	0.208	ng	77
62) n-Butyl Acetate	16.75	43	13380	0.283	ng	99
63) n-Octane	16.88	57	4700	0.333	ng	98
64) Tetrachloroethene	17.02	166	150574	9.385	ng	99
66) Ethylbenzene	18.03	91	56237	0.877	ng	100
67) m- & p-Xylenes	18.19	91	175499	3.406	ng	99
69) Styrene	18.53	104	3998	0.109	ng	97
70) o-Xylene	18.62	91	58285	1.121	ng	100
71) n-Nonane	18.82	43	12194	0.306	ng	96
75) alpha-Pinene	19.50	93	8093	0.260	ng	98
76) n-Propylbenzene	19.60	91	14475	0.184	ng	86
78) 4-Ethyltoluene	19.73	105	17291	0.272	ng	98
79) 1,3,5-Trimethylbenzene	19.79	105	12392	0.230	ng	100
82) 1,2,4-Trimethylbenzene	20.16	105	46260	0.832	ng	91
91) d-Limonene	20.66	68	19126	0.925	ng	97

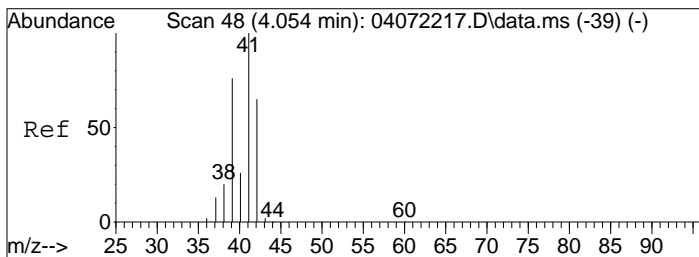
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS09\DATA\2022 04\14\04142221.D
Acq On : 14 Apr 2022 17:46
Sample : P2201602-004 (1000mL)
Misc : S35-04132201

Vial: 6
Operator: SC
Inst : MS09

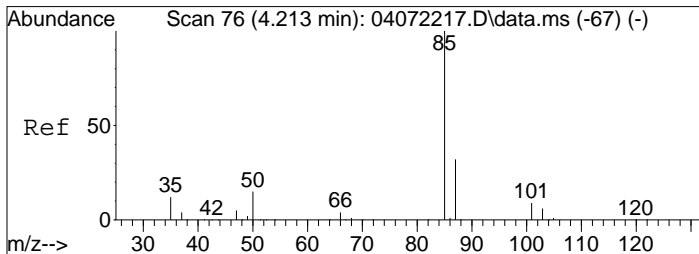
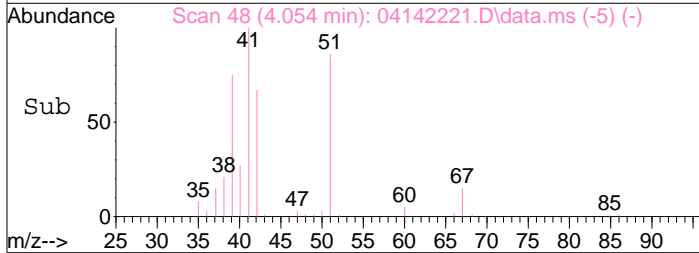
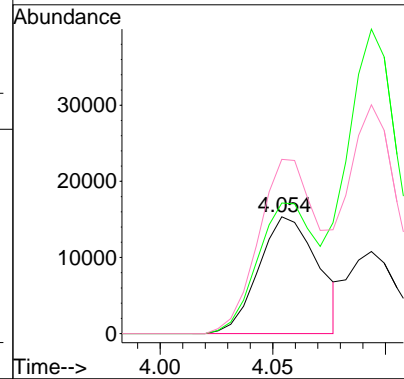
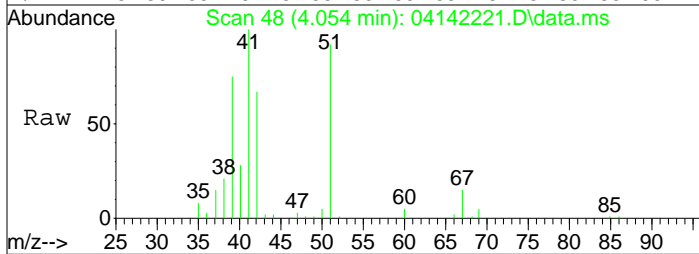
Quant Time: Apr 15 01:32:24 2022
Quant Method : I:\MS09\Methods\R9040722.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Apr 07 16:31:14 2022
Response via : Initial Calibration
DataAcq Meth:TO15.M





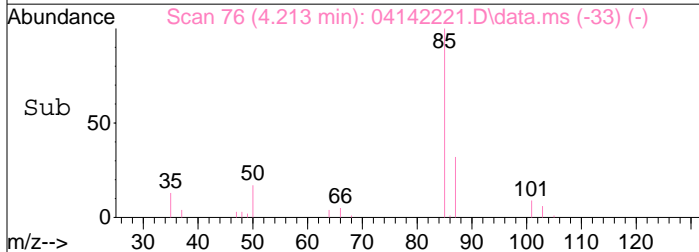
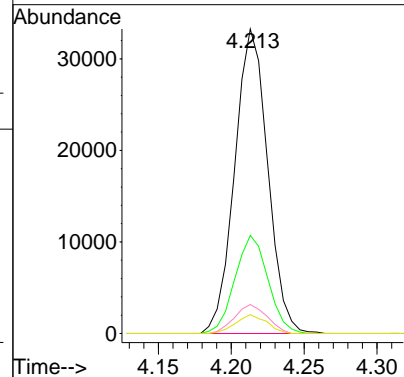
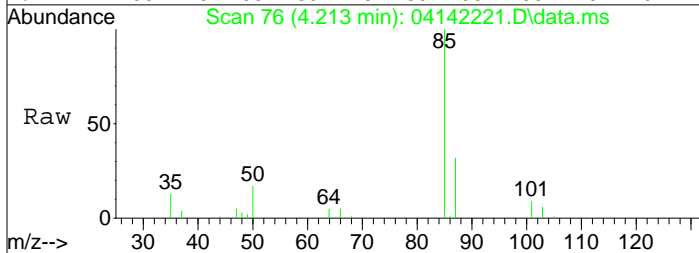
#2
 Propene
 Concen: 1.39 ng
 RT: 4.05 min Scan# 48
 Delta R.T. -0.006 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

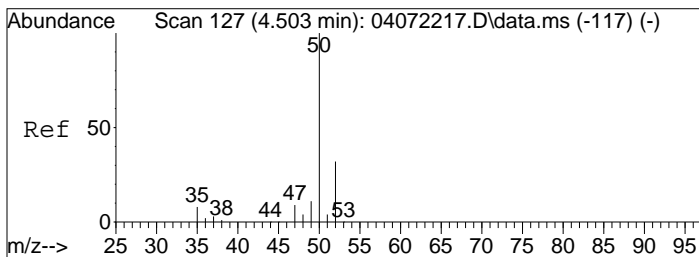
Tgt Ion	Resp	Lower	Upper
42	100		
39	108.3	96.7	136.7
41	139.6	132.4	172.4



#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.89 ng
 RT: 4.21 min Scan# 76
 Delta R.T. -0.006 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

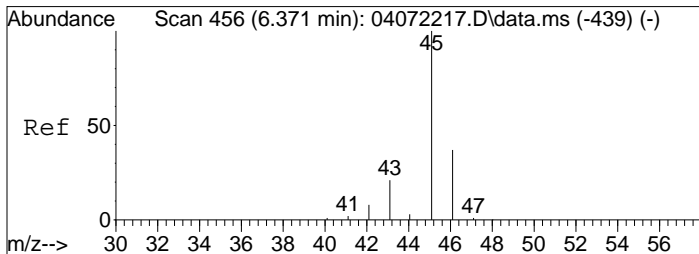
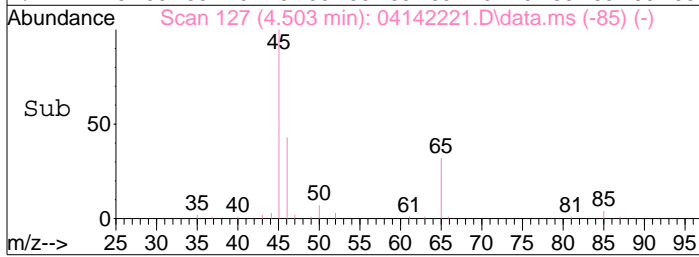
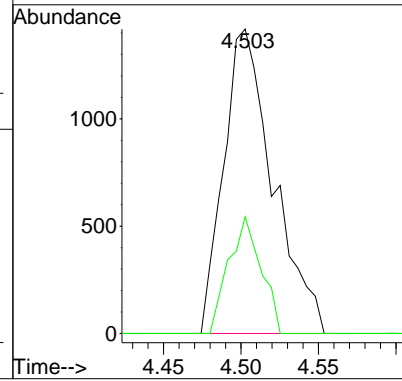
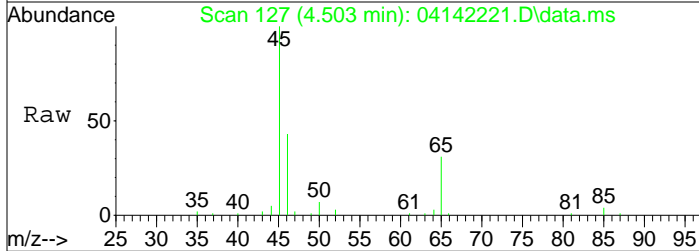
Tgt Ion	Resp	Lower	Upper
85	100		
87	32.2	12.2	52.2
101	9.3	0.0	29.3
103	5.8	0.0	26.0





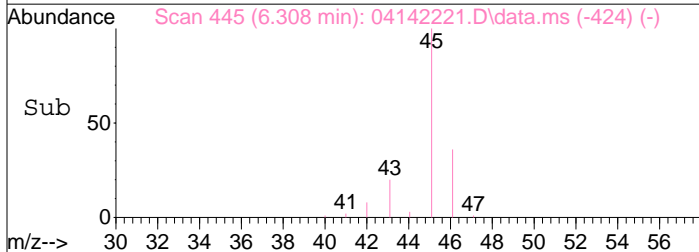
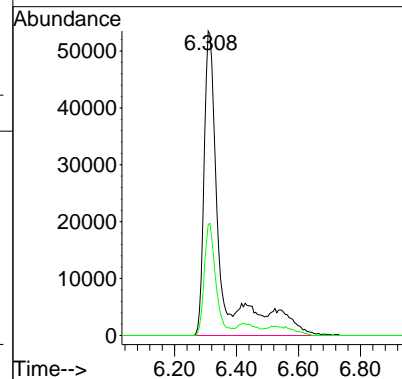
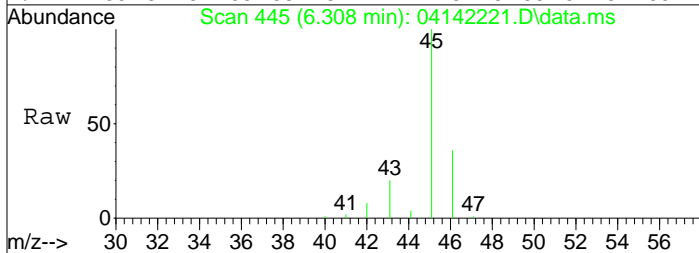
#4
 Chloromethane
 Concen: 0.14 ng
 RT: 4.50 min Scan# 127
 Delta R.T. -0.011 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

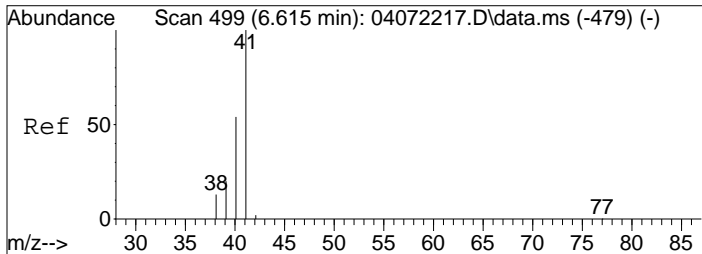
Tgt Ion	Resp	Lower	Upper
50	3148		
52	25.2	11.8	51.8



#10
 Ethanol
 Concen: 13.36 ng
 RT: 6.31 min Scan# 445
 Delta R.T. -0.131 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

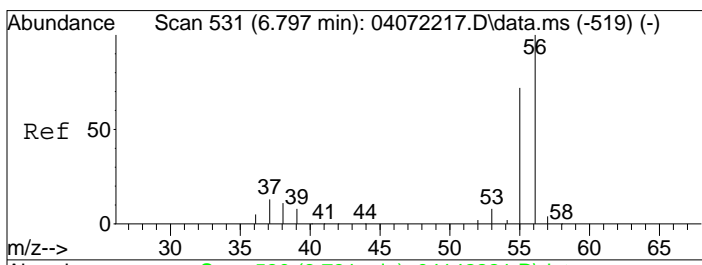
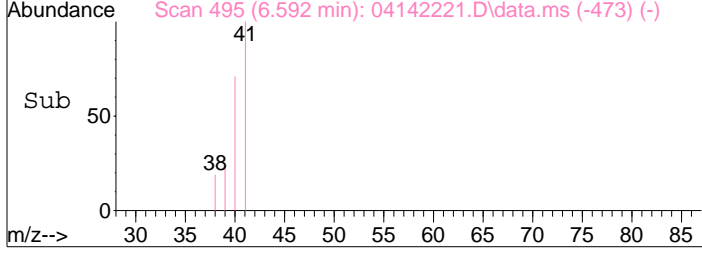
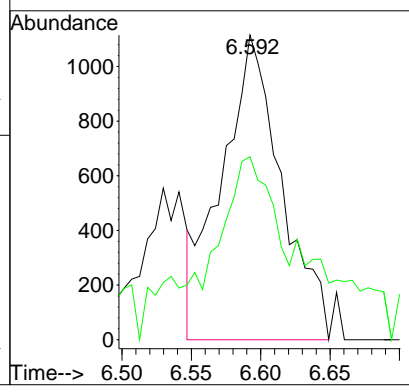
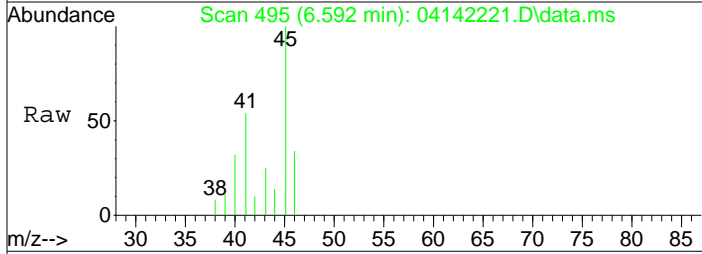
Tgt Ion	Resp	Lower	Upper
45	196825		
46	35.9	16.7	56.7





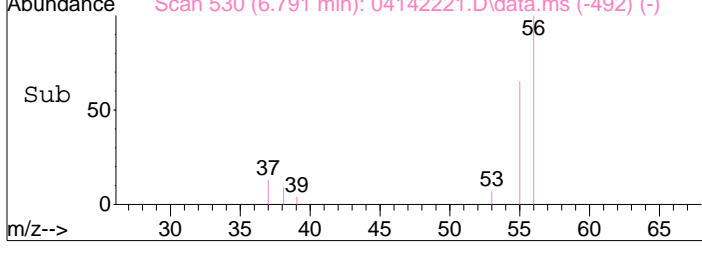
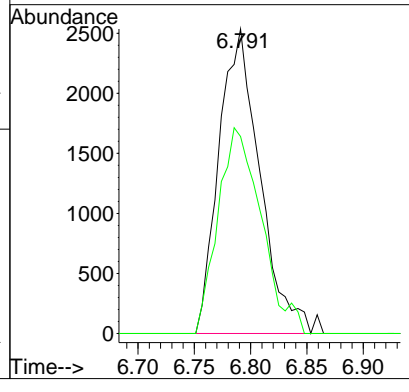
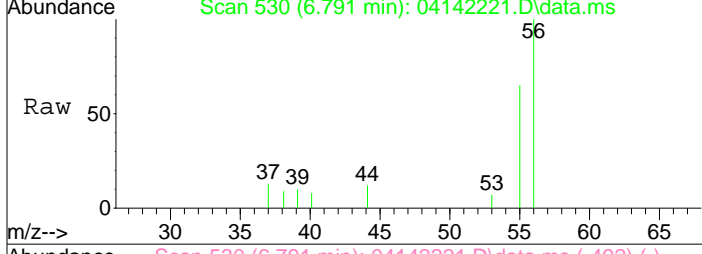
#11
 Acetonitrile
 Concen: 0.09 ng m
 RT: 6.59 min Scan# 495
 Delta R.T. -0.074 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

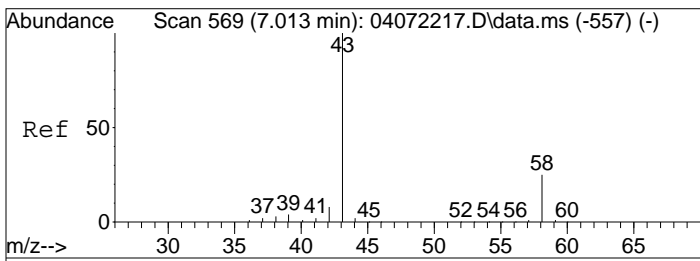
Tgt Ion:	41	Resp:	3346
Ion Ratio	100	Lower	Upper
	40	98.0	34.3 74.3#



#12
 Acrolein
 Concen: 0.71 ng
 RT: 6.79 min Scan# 530
 Delta R.T. -0.034 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

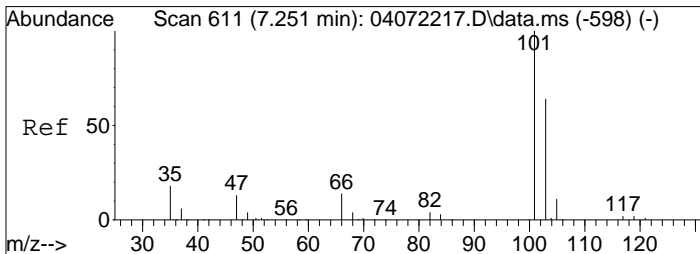
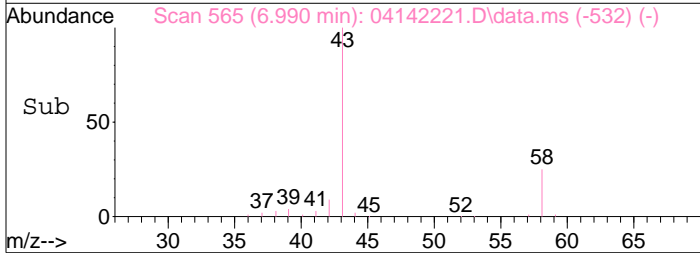
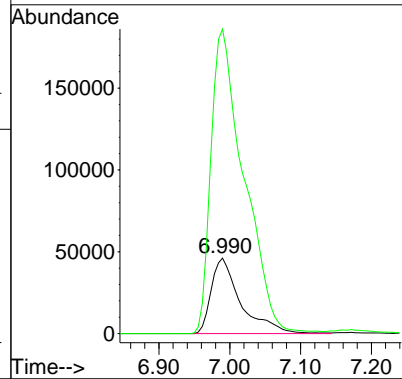
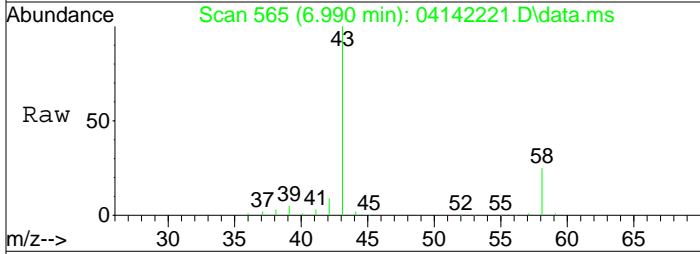
Tgt Ion:	56	Resp:	6442
Ion Ratio	100	Lower	Upper
	55	71.1	51.3 91.3





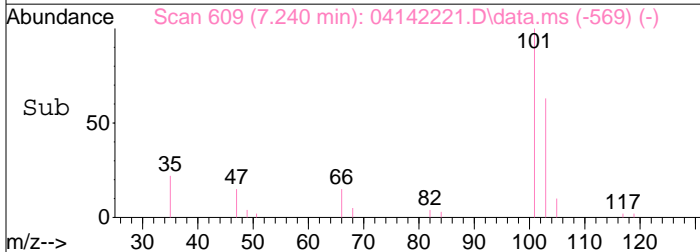
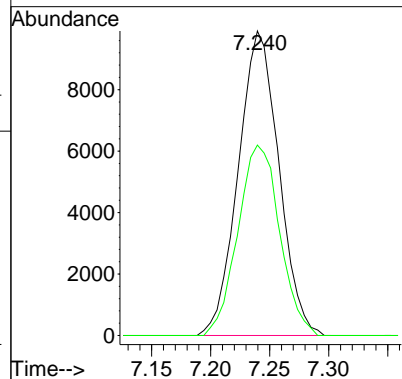
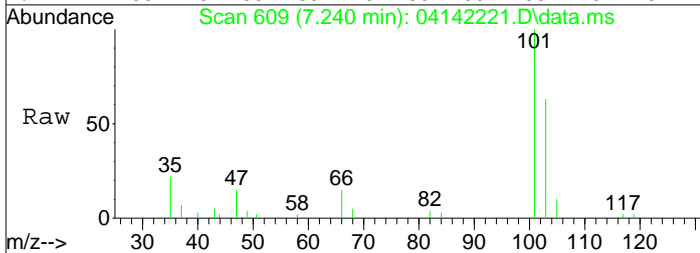
#13
 Acetone
 Concen: 11.57 ng
 RT: 6.99 min Scan# 565
 Delta R.T. -0.063 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

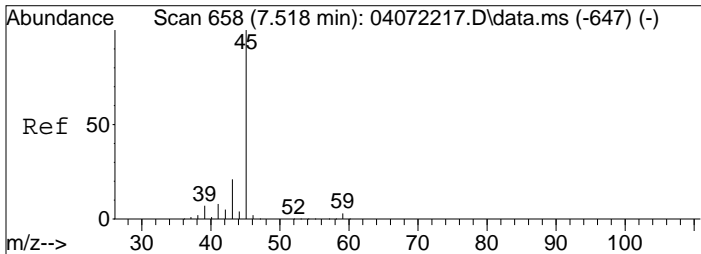
Tgt Ion: 58 Resp: 134149
 Ion Ratio Lower Upper
 58 100
 43 450.5 370.7 430.7#



#14
 Trichlorofluoromethane
 Concen: 0.92 ng
 RT: 7.24 min Scan# 609
 Delta R.T. -0.023 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

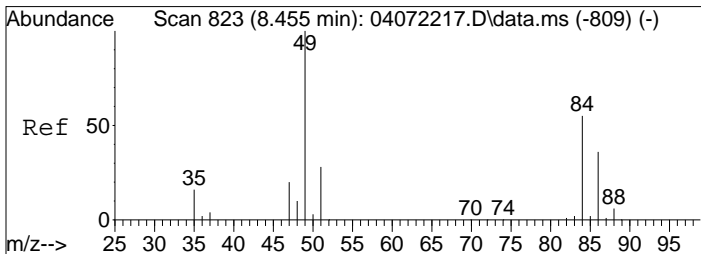
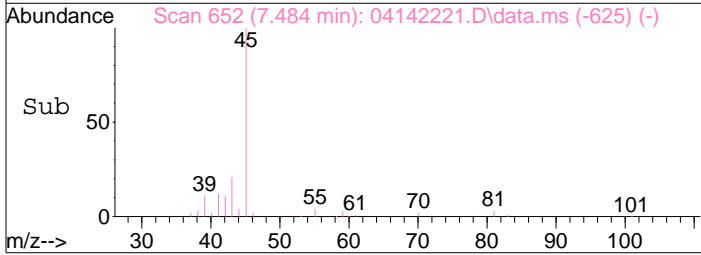
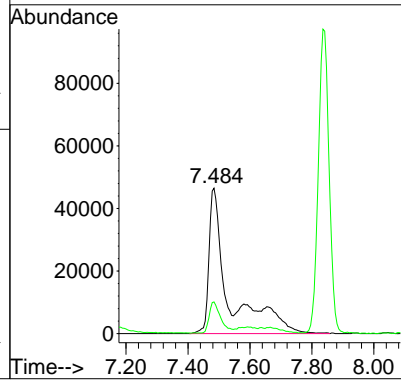
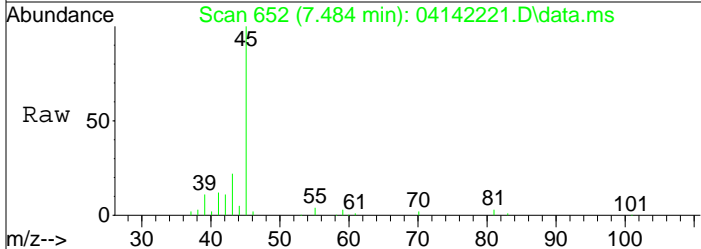
Tgt Ion: 101 Resp: 23705
 Ion Ratio Lower Upper
 101 100
 103 64.4 43.8 83.8





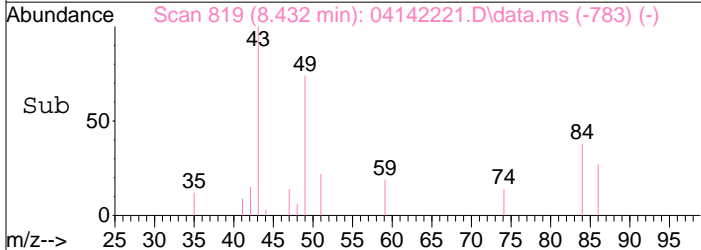
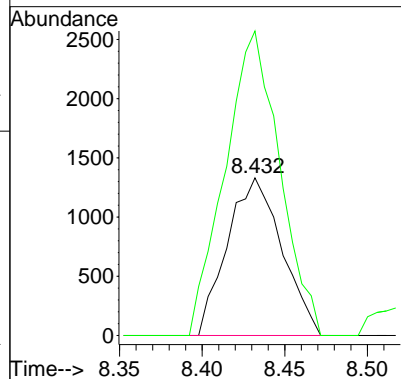
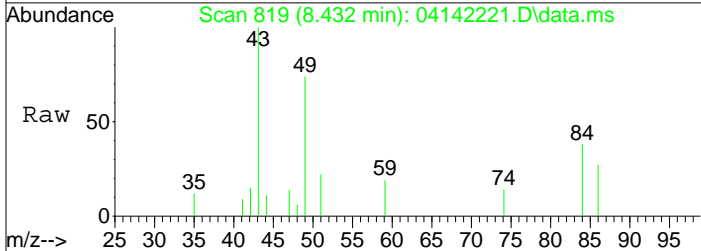
#15
 2-Propanol (Isopropanol)
 Concen: 4.50 ng
 RT: 7.48 min Scan# 652
 Delta R.T. -0.097 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

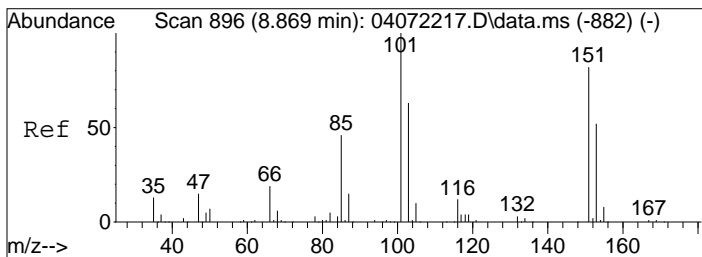
Tgt Ion: 45 Resp: 206279
 Ion Ratio Lower Upper
 45 100
 43 20.2 0.6 40.6



#19
 Methylene Chloride
 Concen: 0.25 ng
 RT: 8.43 min Scan# 819
 Delta R.T. -0.046 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

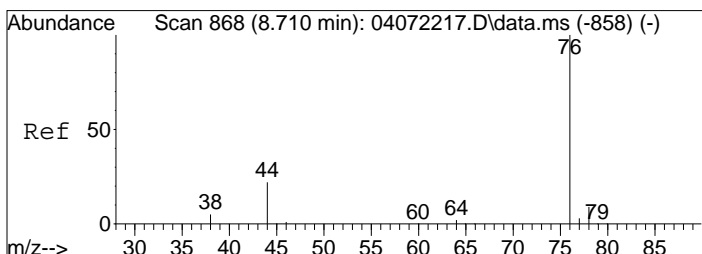
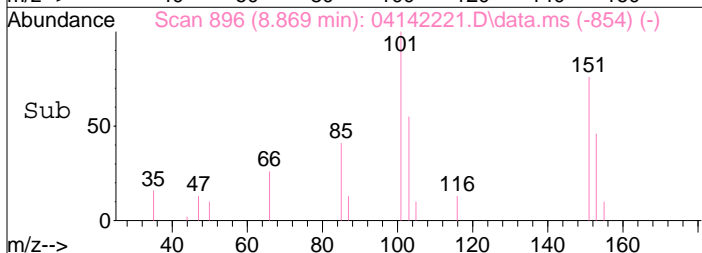
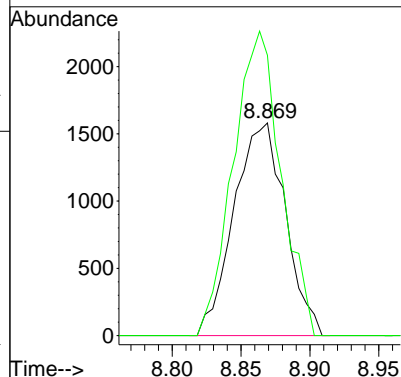
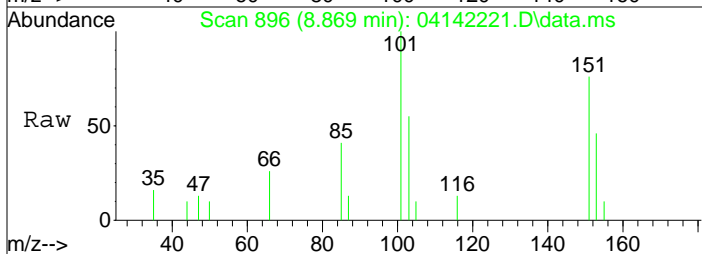
Tgt Ion: 84 Resp: 3064
 Ion Ratio Lower Upper
 84 100
 49 193.2 159.1 209.1





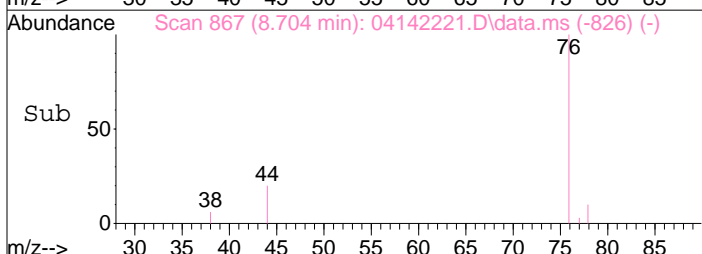
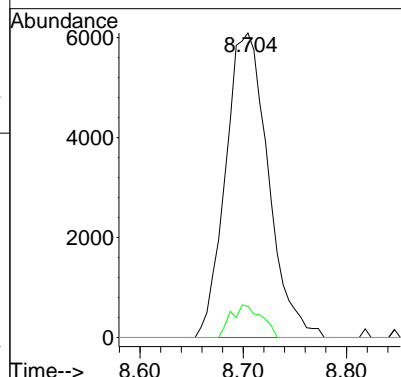
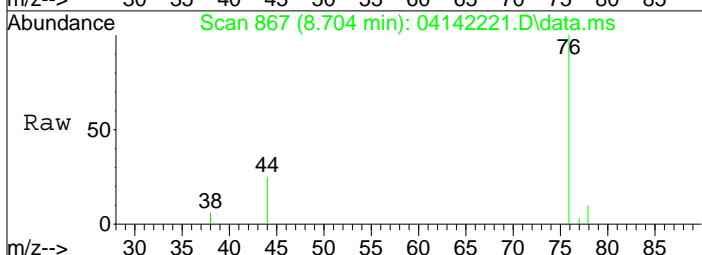
#21
 Trichlorotrifluoroethane
 Concen: 0.37 ng
 RT: 8.87 min Scan# 896
 Delta R.T. -0.011 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

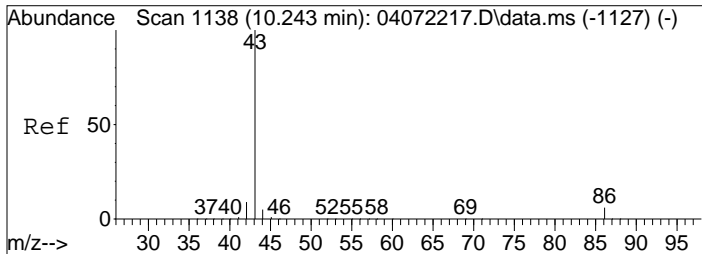
Tgt Ion: 151 Resp: 4110
 Ion Ratio Lower Upper
 151 100
 101 132.8 103.7 143.7



#22
 Carbon Disulfide
 Concen: 0.43 ng
 RT: 8.70 min Scan# 867
 Delta R.T. -0.017 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

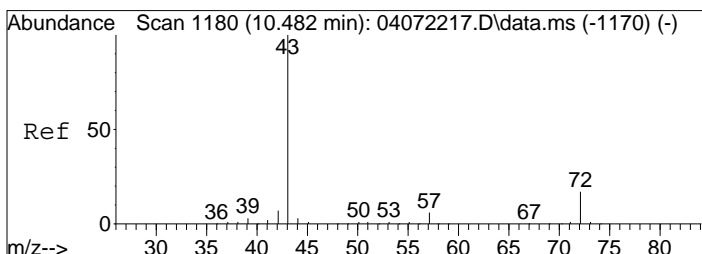
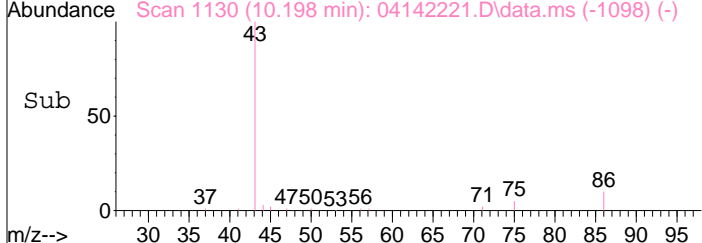
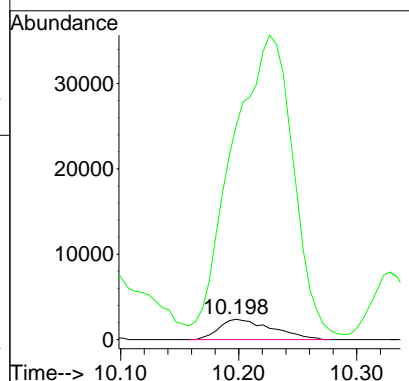
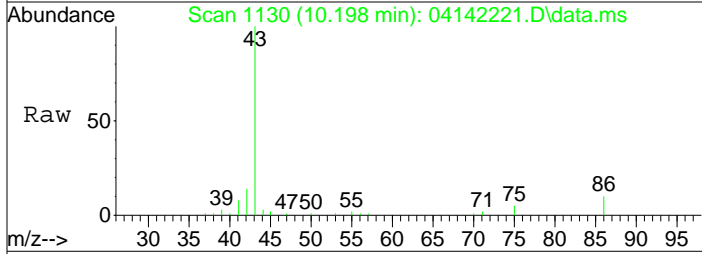
Tgt Ion: 76 Resp: 17505
 Ion Ratio Lower Upper
 76 100
 78 7.7 0.0 29.2





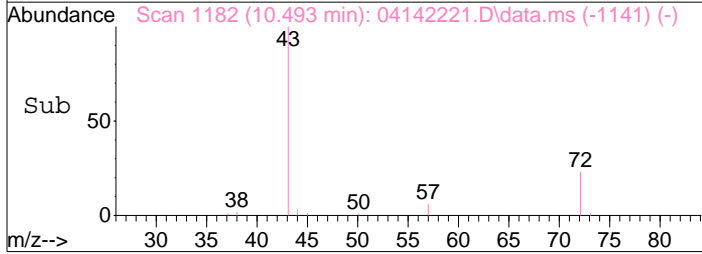
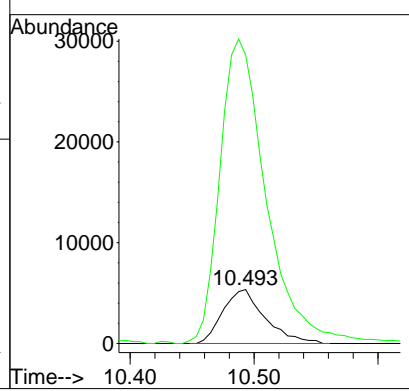
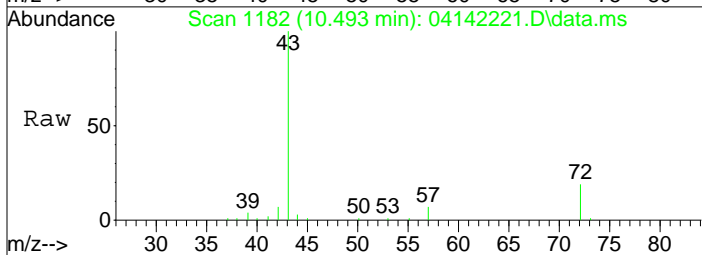
#26
 Vinyl Acetate
 Concen: 3.56 ng
 RT: 10.20 min Scan# 1130
 Delta R.T. -0.068 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

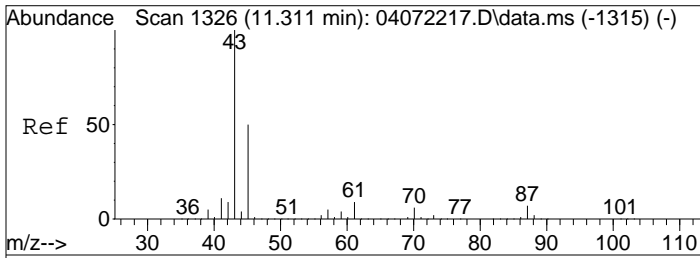
Tgt Ion: 86 Resp: 7428
 Ion Ratio Lower Upper
 86 100
 43 1727.5 1690.9 1730.9



#27
 2-Butanone (MEK)
 Concen: 1.57 ng
 RT: 10.49 min Scan# 1182
 Delta R.T. -0.017 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

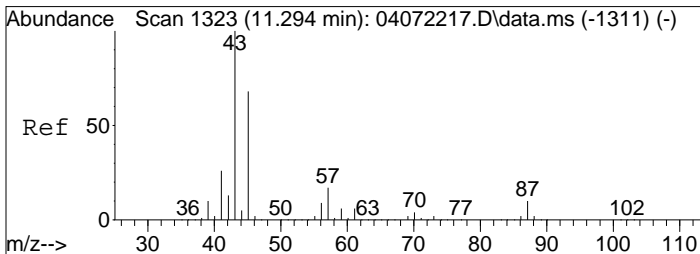
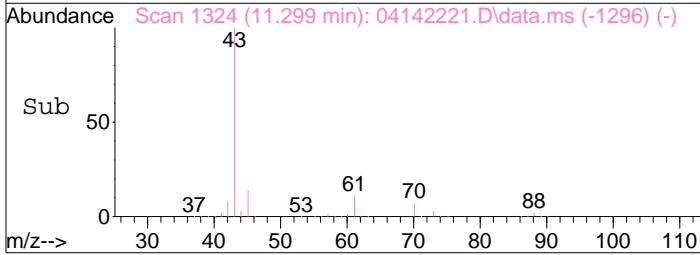
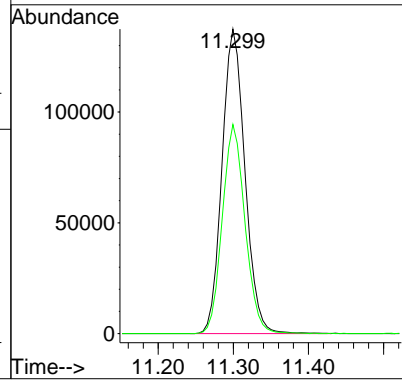
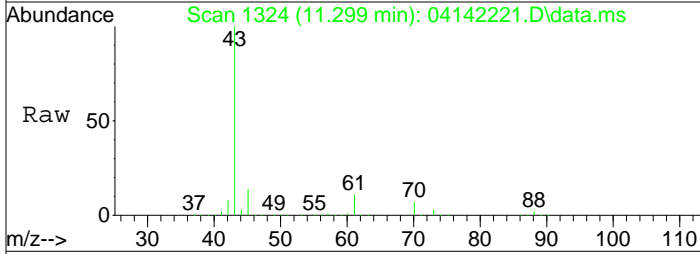
Tgt Ion: 72 Resp: 12683
 Ion Ratio Lower Upper
 72 100
 43 621.8 565.1 605.1#





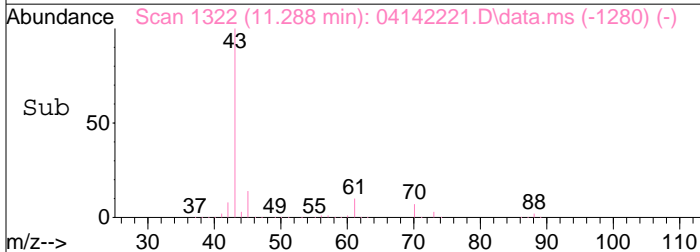
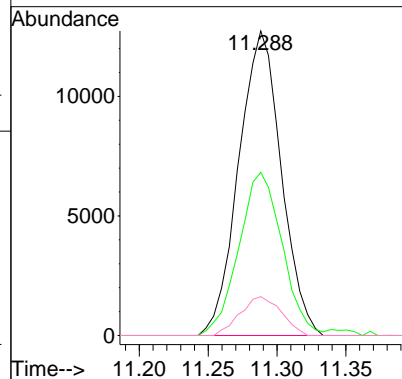
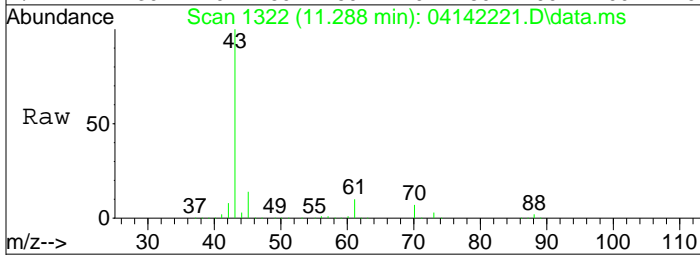
#30
 Ethyl Acetate
 Concen: 50.35 ng
 RT: 11.30 min Scan# 1324
 Delta R.T. -0.040 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

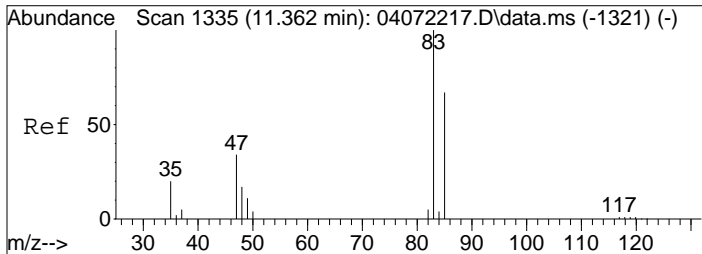
Tgt Ion: 61 Resp: 291312
 Ion Ratio Lower Upper
 61 100
 70 67.9 50.8 90.8



#31
 n-Hexane
 Concen: 1.05 ng
 RT: 11.29 min Scan# 1322
 Delta R.T. -0.011 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

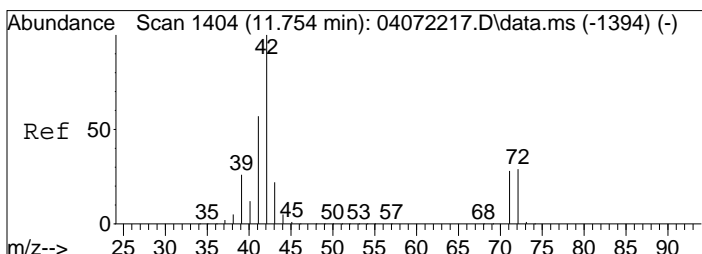
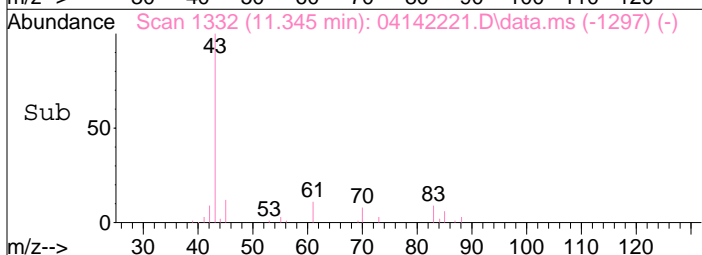
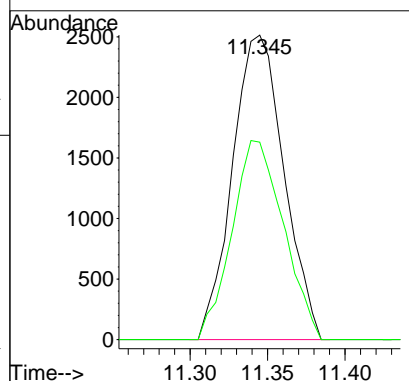
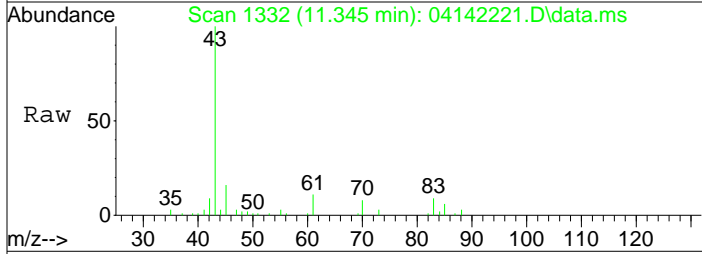
Tgt Ion: 57 Resp: 27344
 Ion Ratio Lower Upper
 57 100
 56 54.6 41.4 62.2
 86 12.3 9.9 14.9





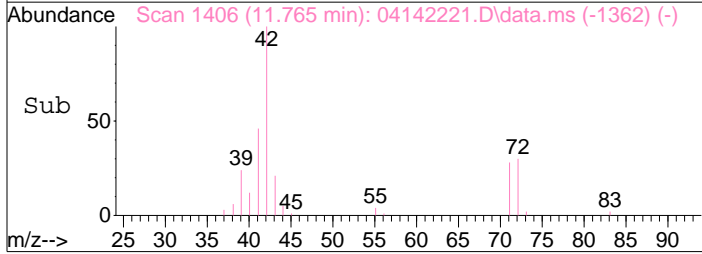
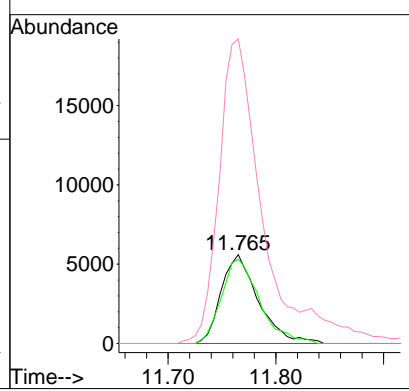
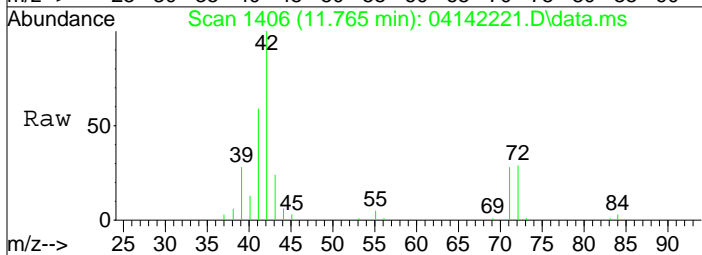
#32
 Chloroform
 Concen: 0.26 ng
 RT: 11.34 min Scan# 1332
 Delta R.T. -0.051 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

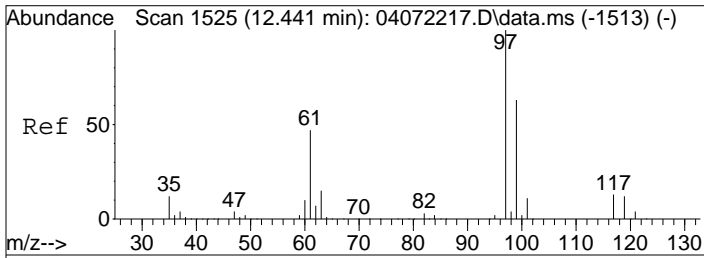
Tgt Ion	Resp	Lower	Upper
83	100		
85	65.4	47.1	87.1



#34
 Tetrahydrofuran (THF)
 Concen: 1.73 ng
 RT: 11.77 min Scan# 1406
 Delta R.T. -0.000 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

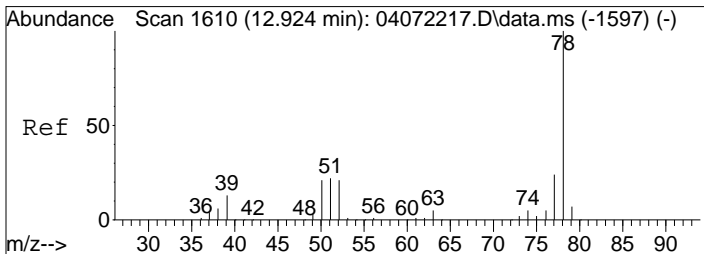
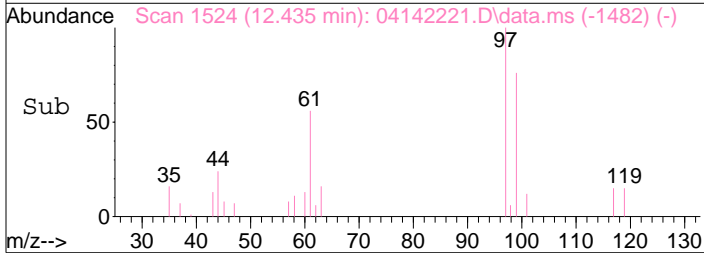
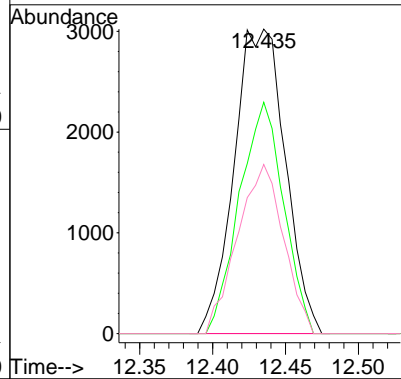
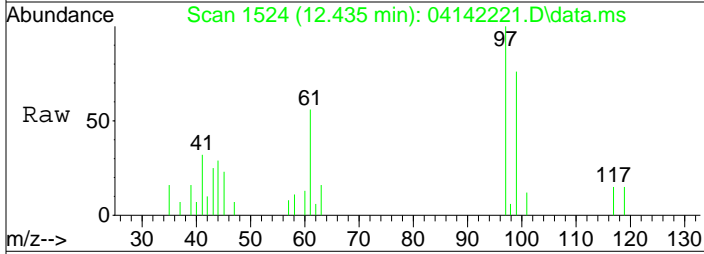
Tgt Ion	Resp	Lower	Upper
72	100		
71	97.4	77.0	117.0
42	408.1	325.1	365.1#





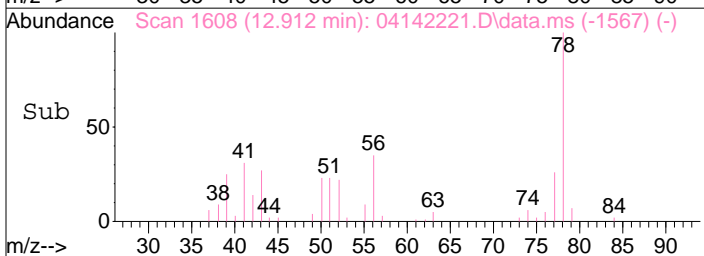
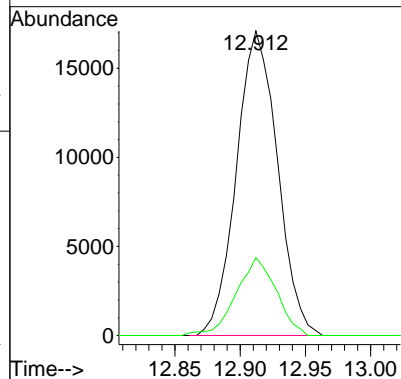
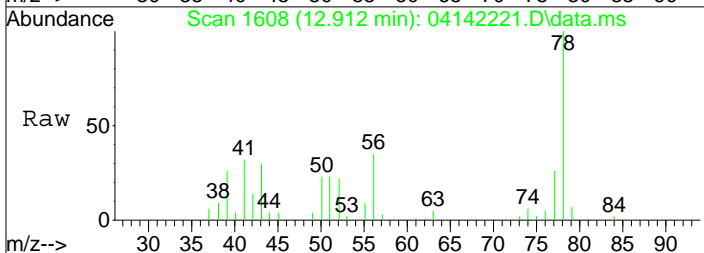
#38
 1,1,1-Trichloroethane
 Concen: 0.33 ng
 RT: 12.44 min Scan# 1524
 Delta R.T. -0.011 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

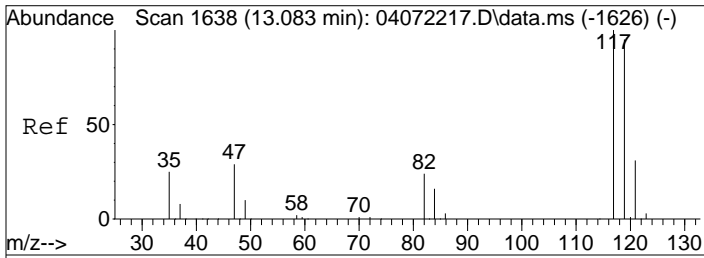
Tgt Ion:	Resp:	Lower	Upper
97	100		
99	65.7	43.5	83.5
61	50.0	27.7	67.7



#41
 Benzene
 Concen: 0.74 ng
 RT: 12.91 min Scan# 1608
 Delta R.T. -0.017 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

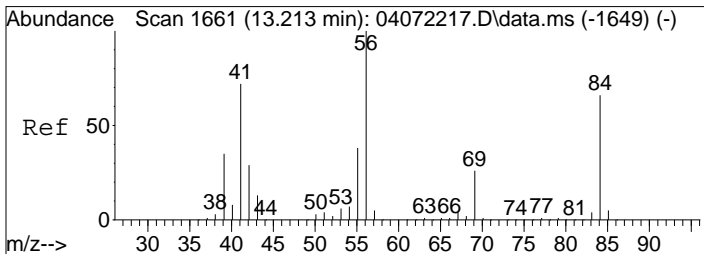
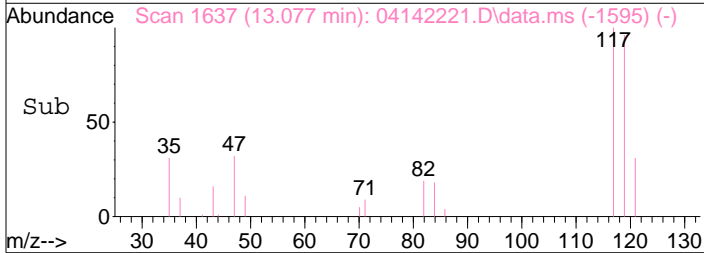
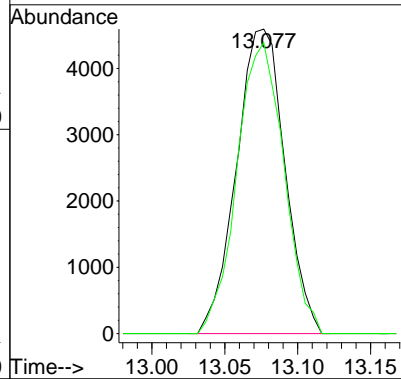
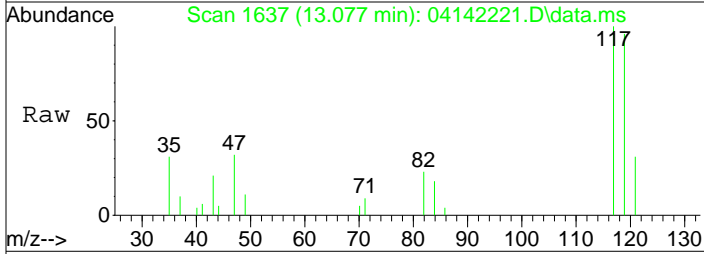
Tgt Ion:	Resp:	Lower	Upper
78	100		
77	24.9	3.9	43.9





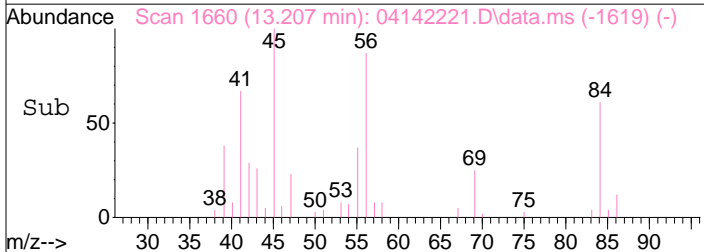
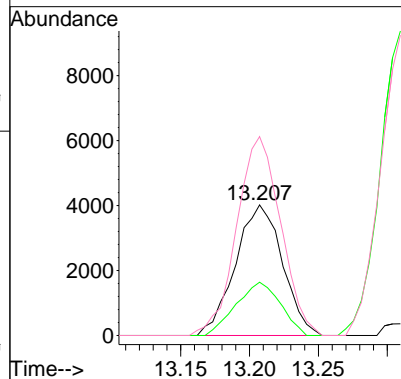
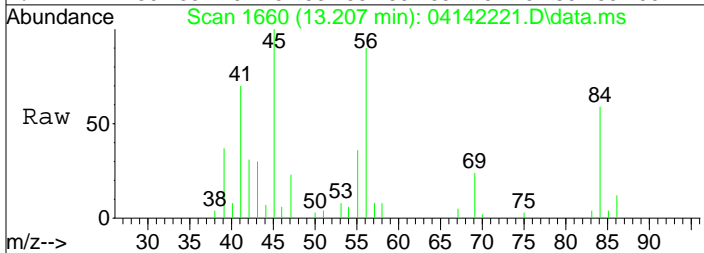
#42
 Carbon Tetrachloride
 Concen: 0.54 ng
 RT: 13.08 min Scan# 1637
 Delta R.T. -0.011 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

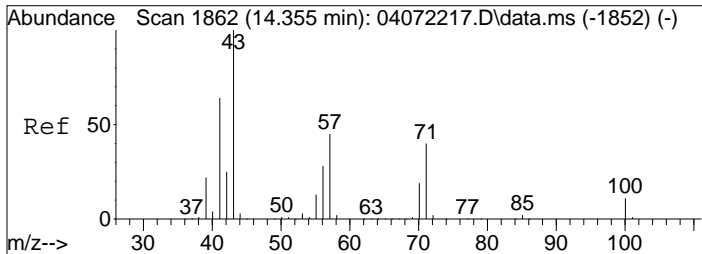
Tgt Ion: 117 Resp: 10605
 Ion Ratio Lower Upper
 117 100
 119 92.7 75.0 115.0



#43
 Cyclohexane
 Concen: 0.49 ng
 RT: 13.21 min Scan# 1660
 Delta R.T. -0.017 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

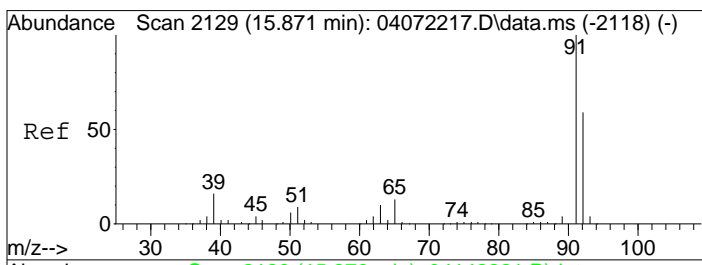
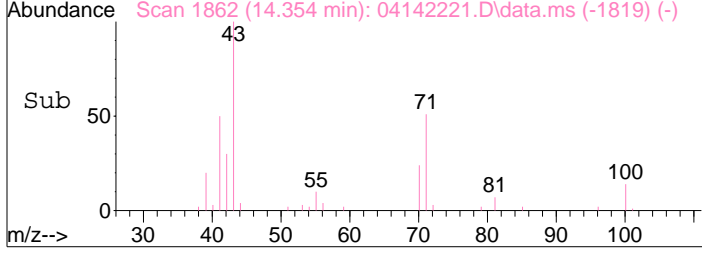
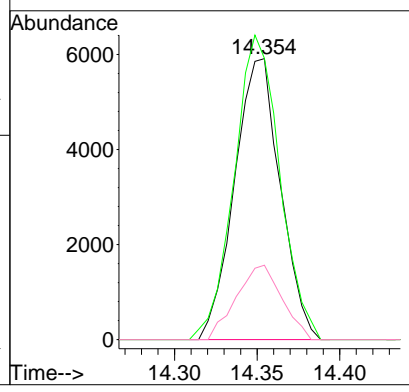
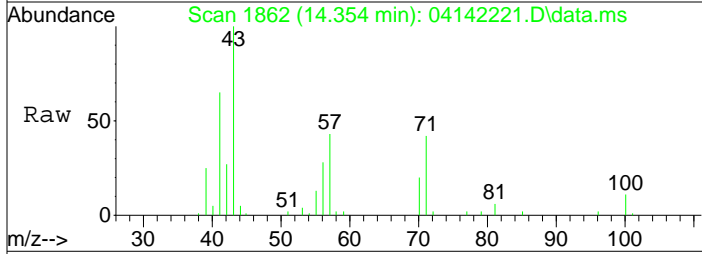
Tgt Ion: 84 Resp: 9571
 Ion Ratio Lower Upper
 84 100
 69 38.4 18.6 58.6
 56 142.2 128.4 168.4





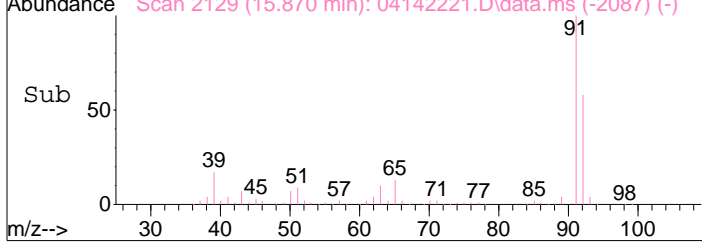
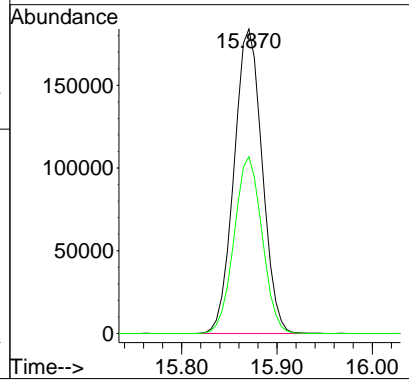
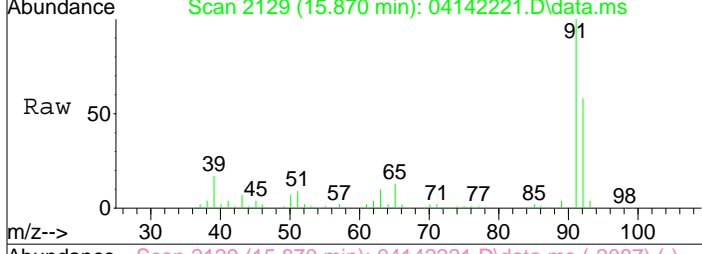
#51
 n-Heptane
 Concen: 0.86 ng
 RT: 14.35 min Scan# 1862
 Delta R.T. -0.006 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

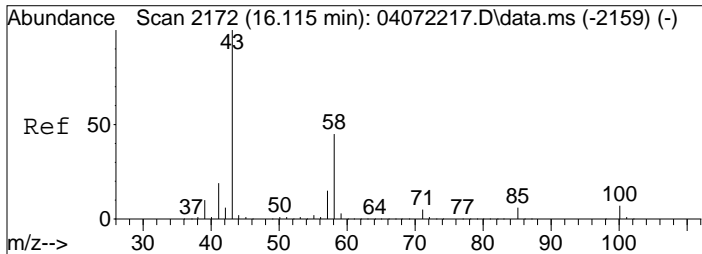
Tgt Ion:	Resp:	Lower	Upper
71	11406		
57	107.8	89.9	129.9
100	26.3	7.5	47.5



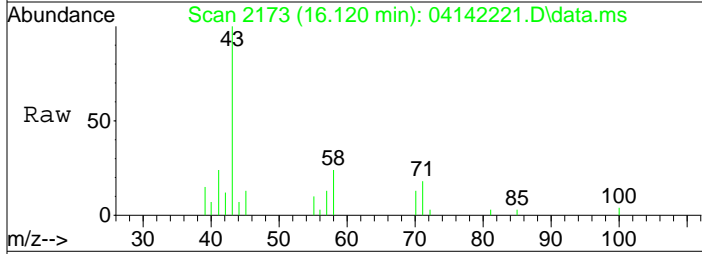
#58
 Toluene
 Concen: 6.71 ng
 RT: 15.87 min Scan# 2129
 Delta R.T. -0.011 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

Tgt Ion:	Resp:	Lower	Upper
91	377960		
92	57.7	38.3	78.3

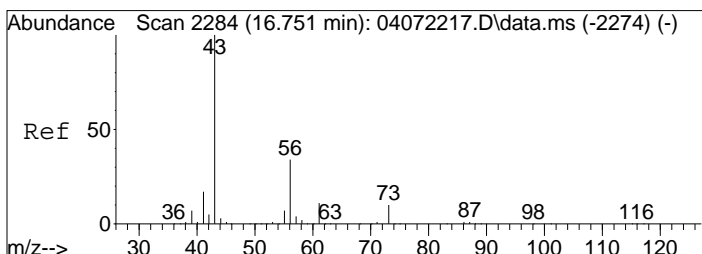
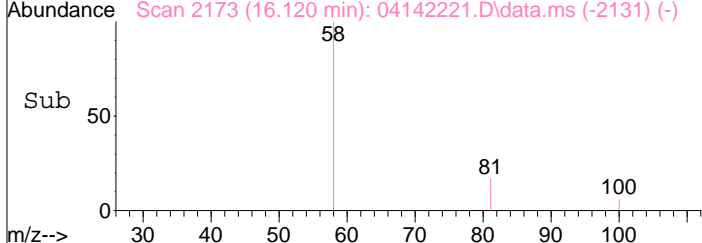
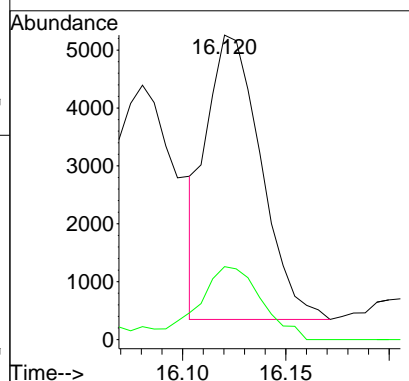




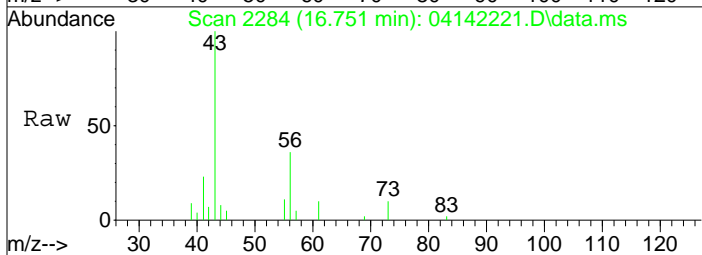
#59
 2-Hexanone
 Concen: 0.21 ng
 RT: 16.12 min Scan# 2173
 Delta R.T. -0.012 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46



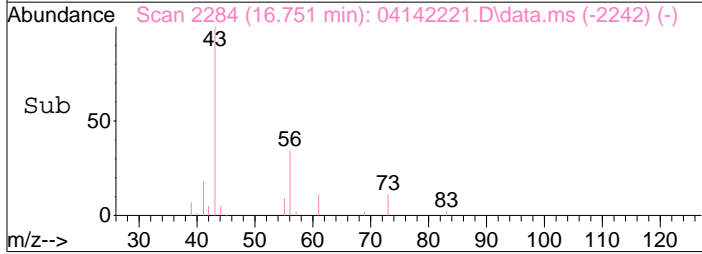
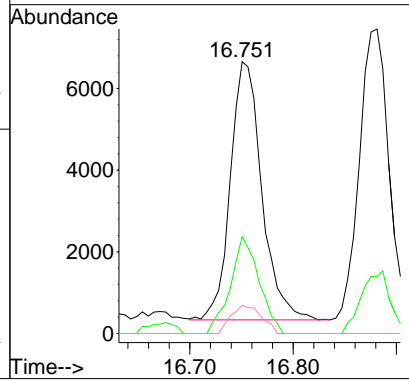
Tgt Ion: 43 Resp: 9041
 Ion Ratio Lower Upper
 43 100
 58 29.4 24.3 64.3

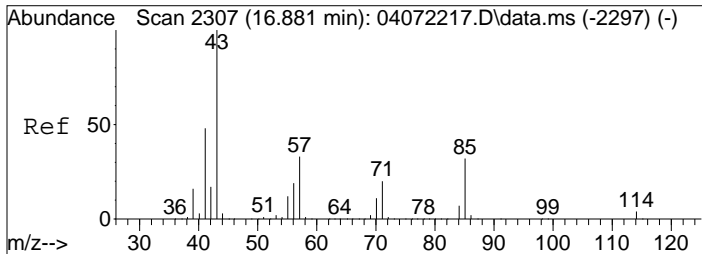


#62
 n-Butyl Acetate
 Concen: 0.28 ng
 RT: 16.75 min Scan# 2284
 Delta R.T. -0.011 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46



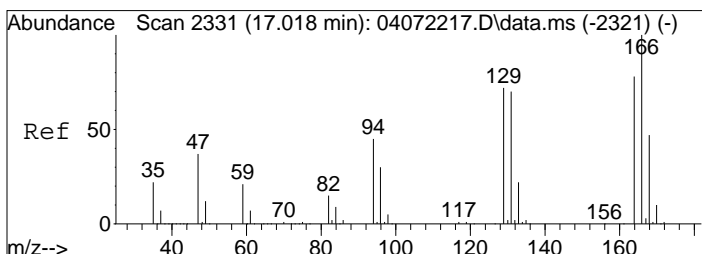
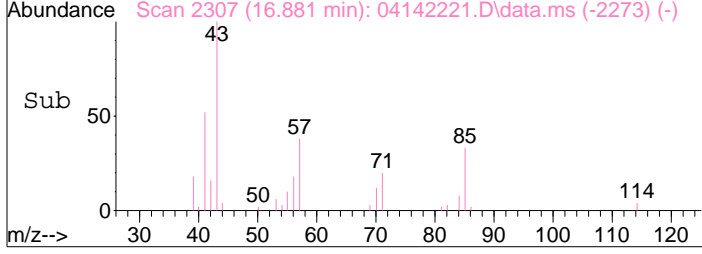
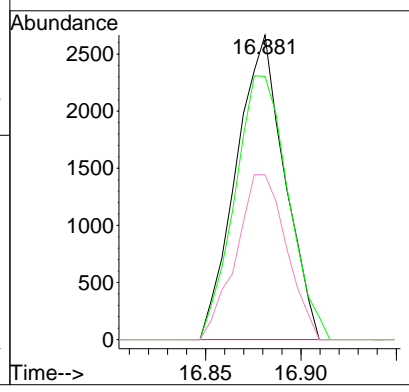
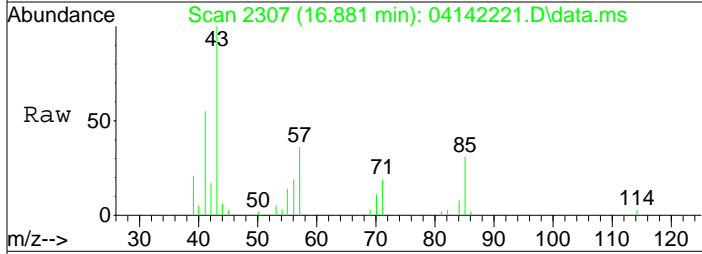
Tgt Ion: 43 Resp: 13380
 Ion Ratio Lower Upper
 43 100
 56 34.1 13.8 53.8
 73 10.5 0.0 29.9





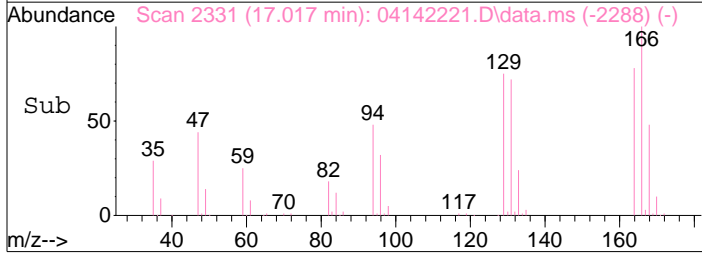
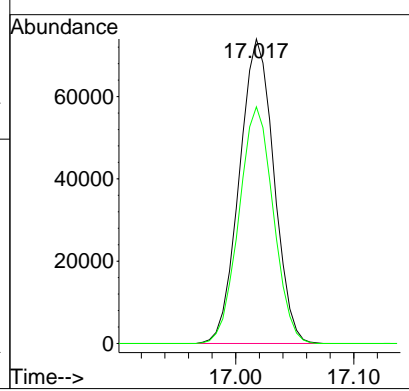
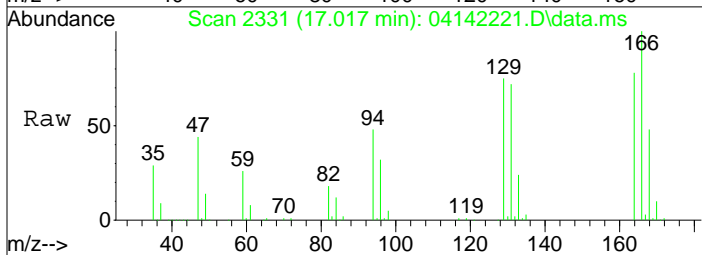
#63
 n-Octane
 Concen: 0.33 ng
 RT: 16.88 min Scan# 2307
 Delta R.T. -0.006 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

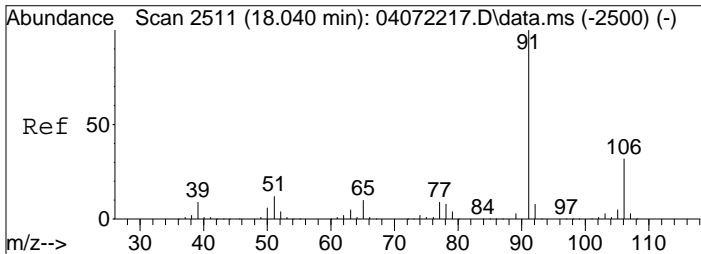
Tgt Ion:	Resp:	Lower	Upper
57	100		
85	95.5	77.4	116.0
71	56.4	47.0	70.6



#64
 Tetrachloroethene
 Concen: 9.39 ng
 RT: 17.02 min Scan# 2331
 Delta R.T. -0.006 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

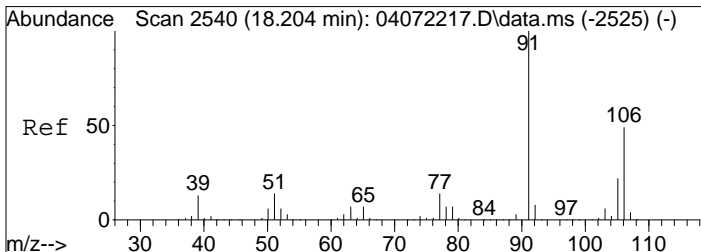
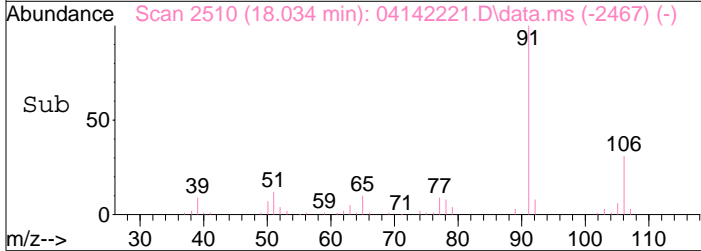
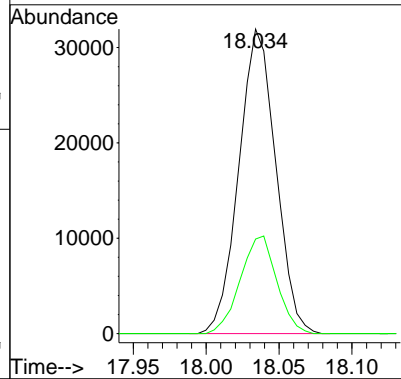
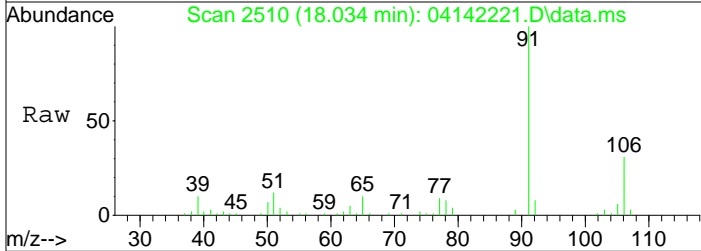
Tgt Ion:	Resp:	Lower	Upper
166	100		
164	77.3	57.8	97.8





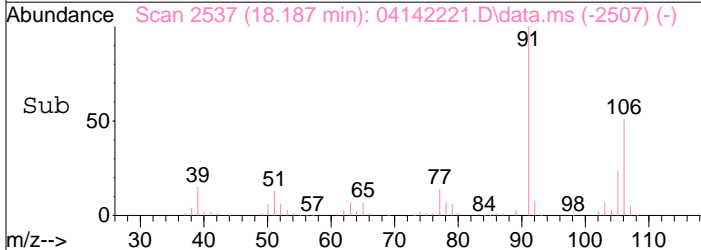
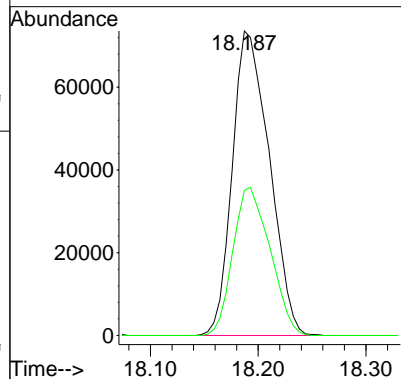
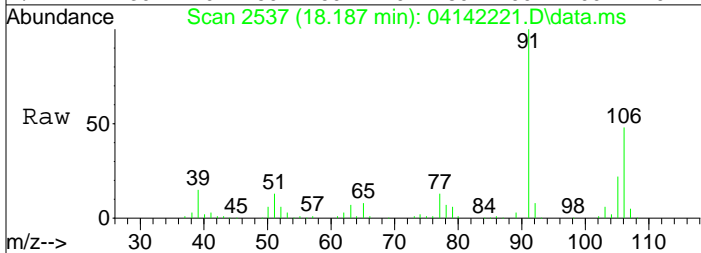
#66
 Ethylbenzene
 Concen: 0.88 ng
 RT: 18.03 min Scan# 2510
 Delta R.T. -0.006 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

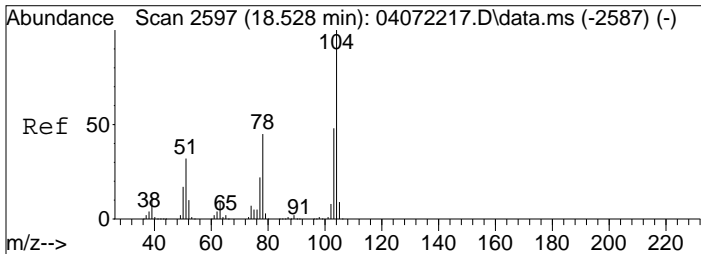
Tgt Ion	Resp	Lower	Upper
91	56237	100	100
106	31.7	11.6	51.6



#67
 m- & p-Xylenes
 Concen: 3.41 ng
 RT: 18.19 min Scan# 2537
 Delta R.T. -0.029 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

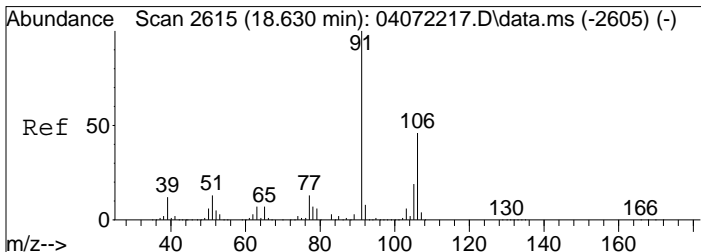
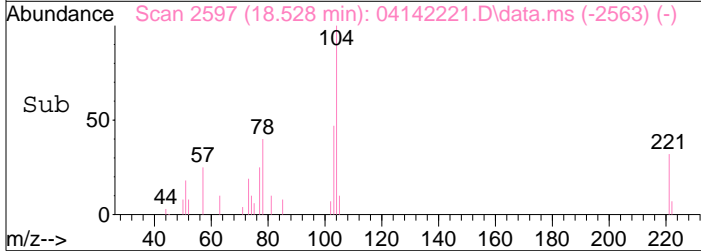
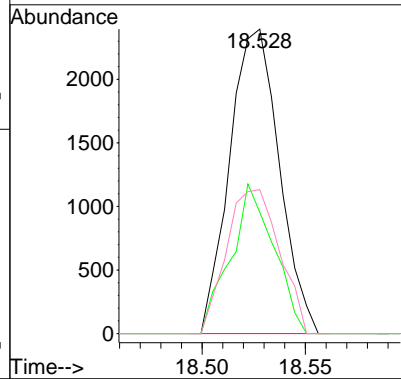
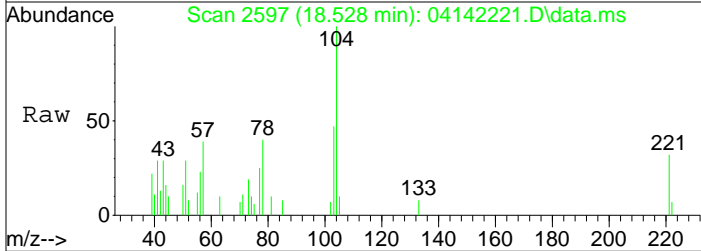
Tgt Ion	Resp	Lower	Upper
91	175499	100	100
106	48.8	28.3	68.3





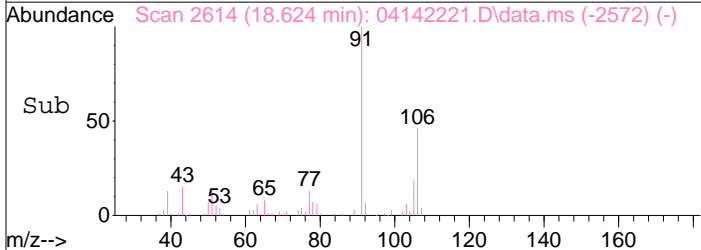
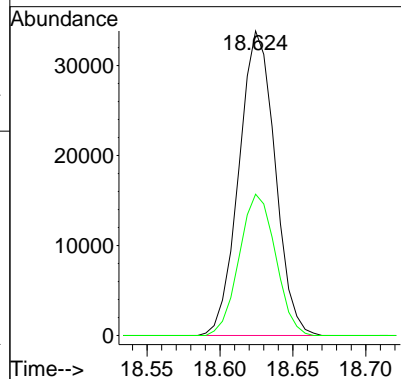
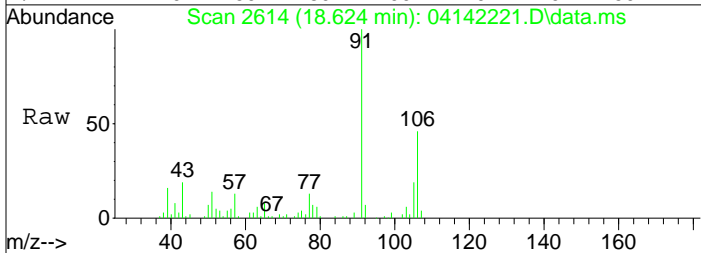
#69
 Styrene
 Concen: 0.11 ng
 RT: 18.53 min Scan# 2597
 Delta R.T. -0.006 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

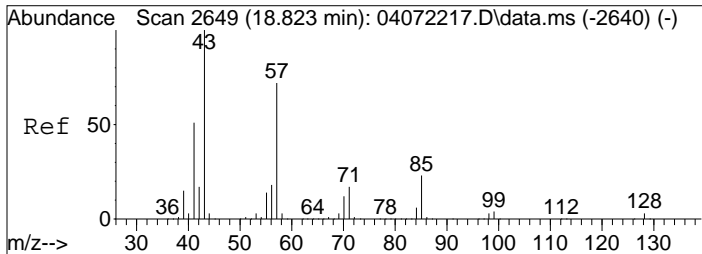
Tgt Ion	Resp	Lower	Upper
104	3998		
78	42.8	24.9	64.9
103	50.6	28.2	68.2



#70
 o-Xylene
 Concen: 1.12 ng
 RT: 18.62 min Scan# 2614
 Delta R.T. -0.011 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

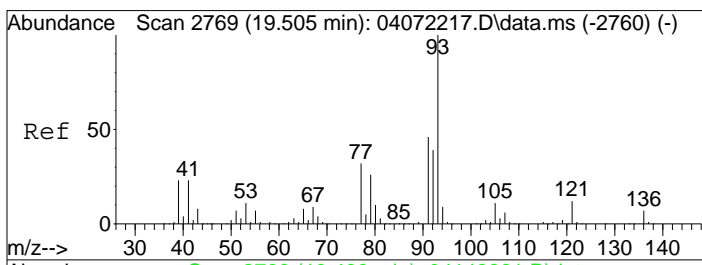
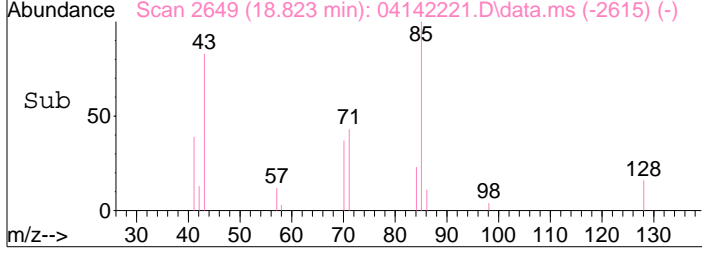
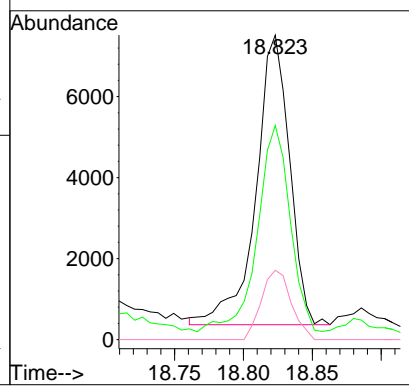
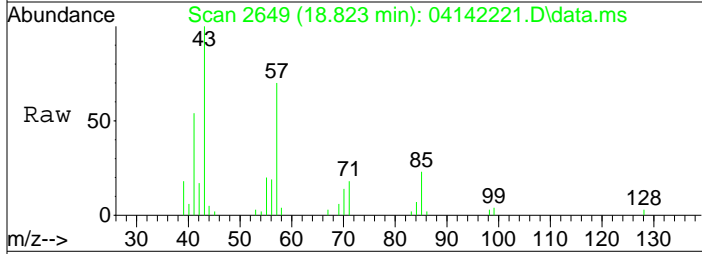
Tgt Ion	Resp	Lower	Upper
91	58285		
106	46.6	26.5	66.5





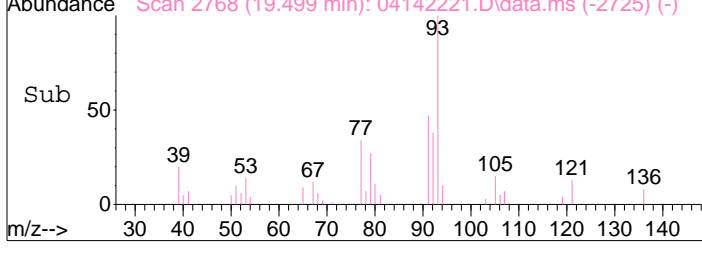
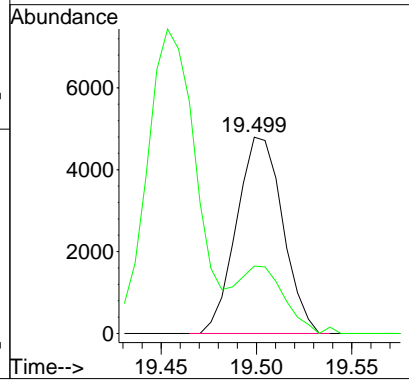
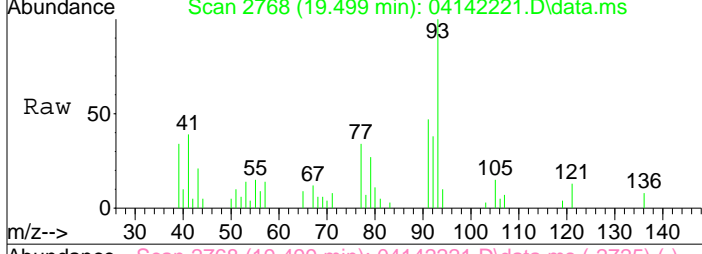
#71
 n-Nonane
 Concen: 0.31 ng
 RT: 18.82 min Scan# 2649
 Delta R.T. -0.006 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

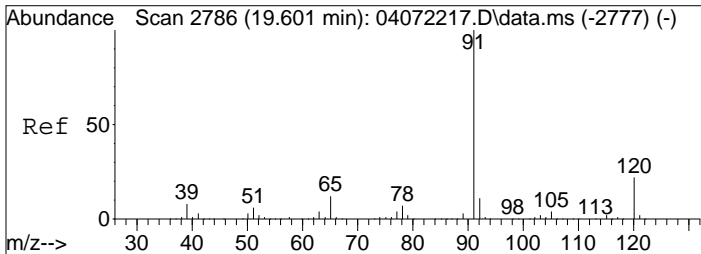
Tgt Ion	Resp	Lower	Upper
43	12194		
57	70.0	52.5	92.5
85	21.1	3.6	43.6



#75
 alpha-Pinene
 Concen: 0.26 ng
 RT: 19.50 min Scan# 2768
 Delta R.T. -0.006 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

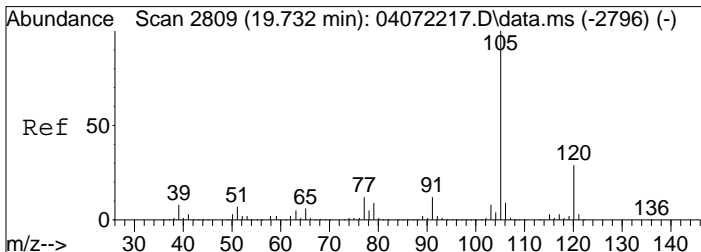
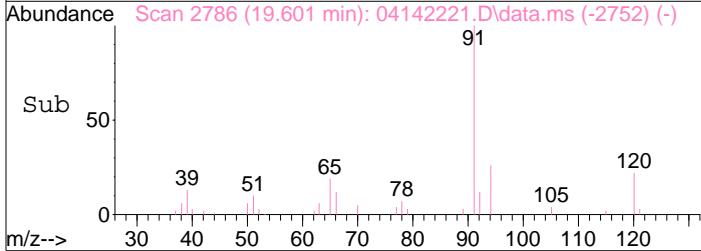
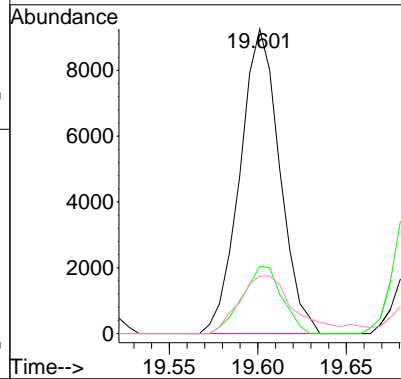
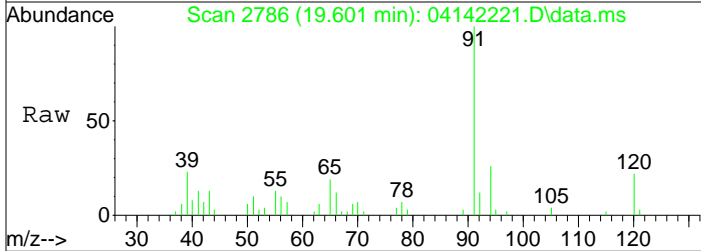
Tgt Ion	Resp	Lower	Upper
93	8093		
77	31.5	12.7	52.7





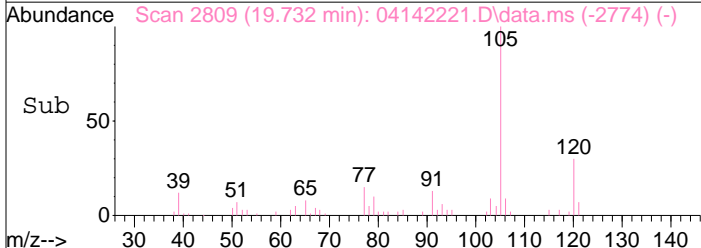
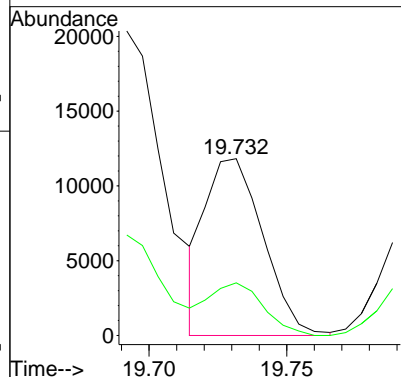
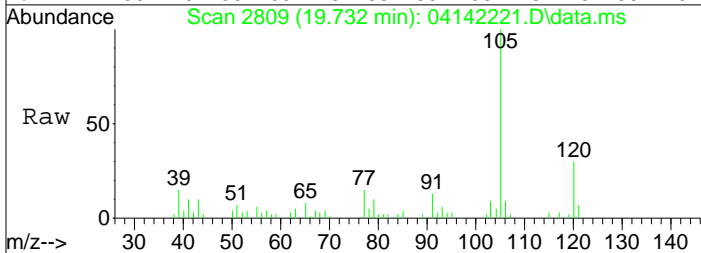
#76
 n-Propylbenzene
 Concen: 0.18 ng
 RT: 19.60 min Scan# 2786
 Delta R.T. -0.006 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

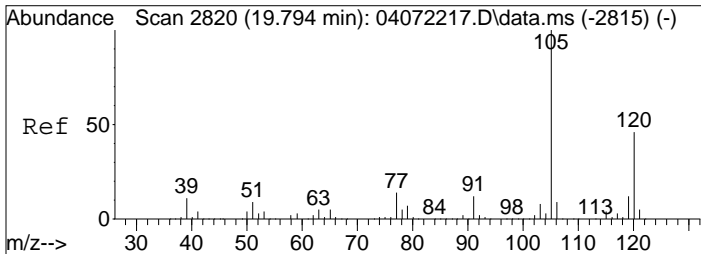
Tgt Ion	Resp	Lower	Upper
91	14475		
120	22.1	2.3	42.3
65	27.3	0.0	31.8



#78
 4-Ethyltoluene
 Concen: 0.27 ng
 RT: 19.73 min Scan# 2809
 Delta R.T. -0.000 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

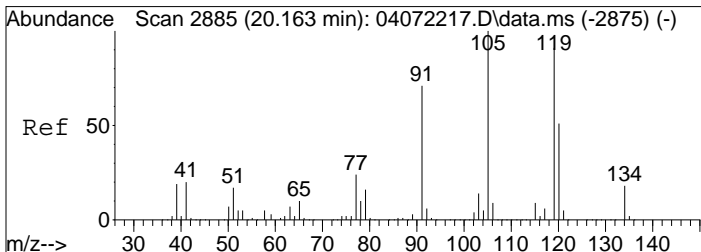
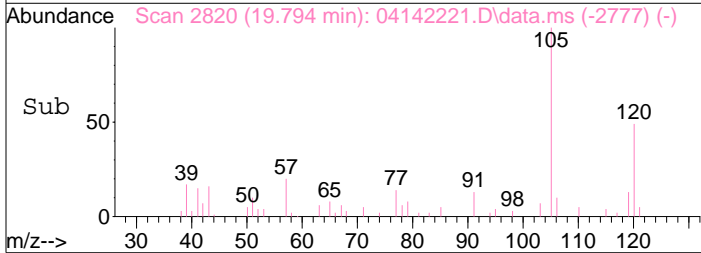
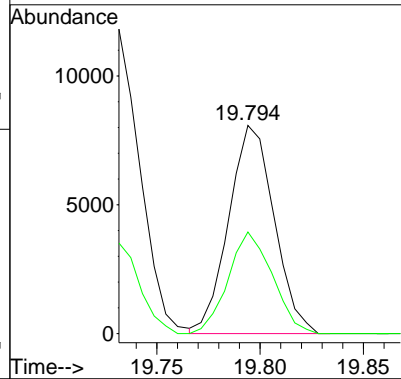
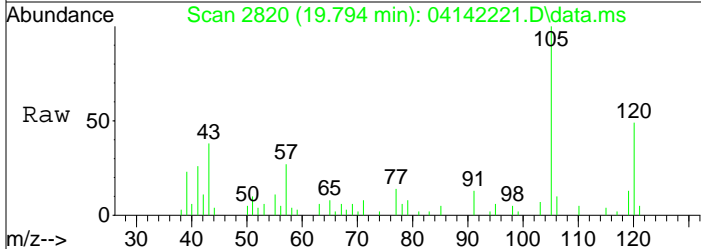
Tgt Ion	Resp	Lower	Upper
105	17291		
120	28.6	9.4	49.4





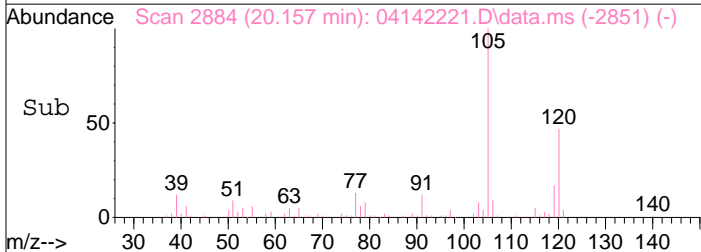
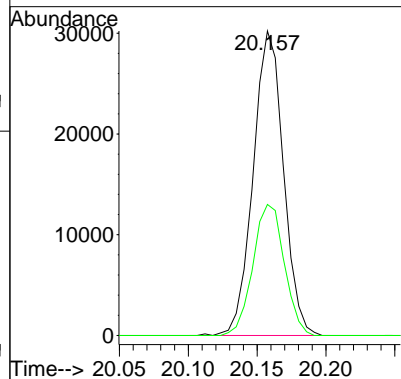
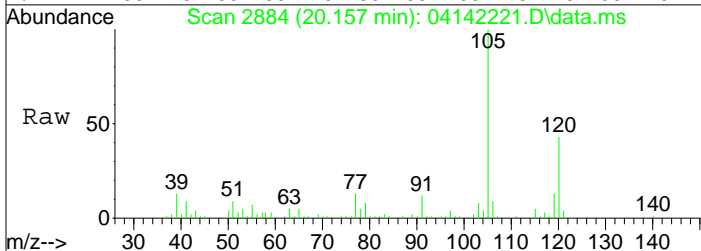
#79
 1,3,5-Trimethylbenzene
 Concen: 0.23 ng
 RT: 19.79 min Scan# 2820
 Delta R.T. -0.006 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

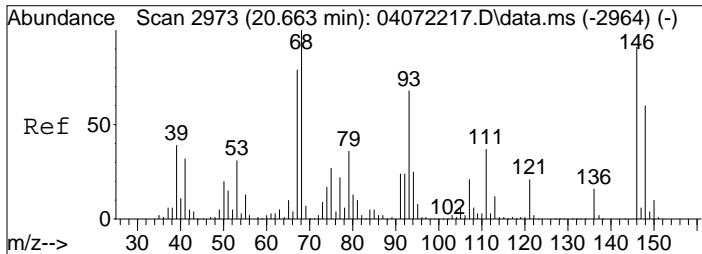
Tgt Ion	Resp	Lower	Upper
105	12392	100	100
120	47.3	27.1	67.1



#82
 1,2,4-Trimethylbenzene
 Concen: 0.83 ng
 RT: 20.16 min Scan# 2884
 Delta R.T. -0.011 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

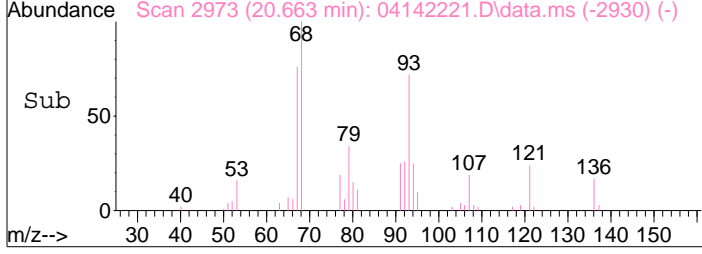
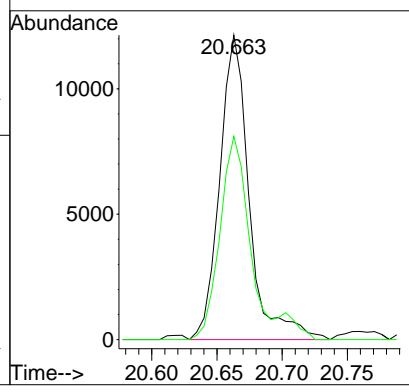
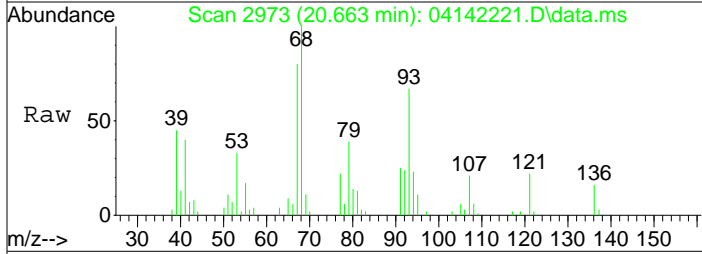
Tgt Ion	Resp	Lower	Upper
105	46260	100	100
120	44.6	31.1	71.1





#91
 d-Limonene
 Concen: 0.92 ng
 RT: 20.66 min Scan# 2973
 Delta R.T. -0.006 min
 Lab File: 04142221.D
 Acq: 14 Apr 2022 17:46

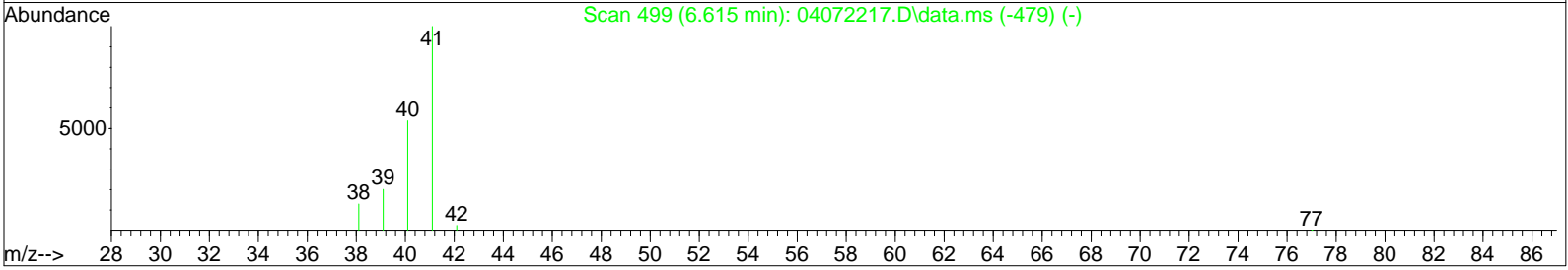
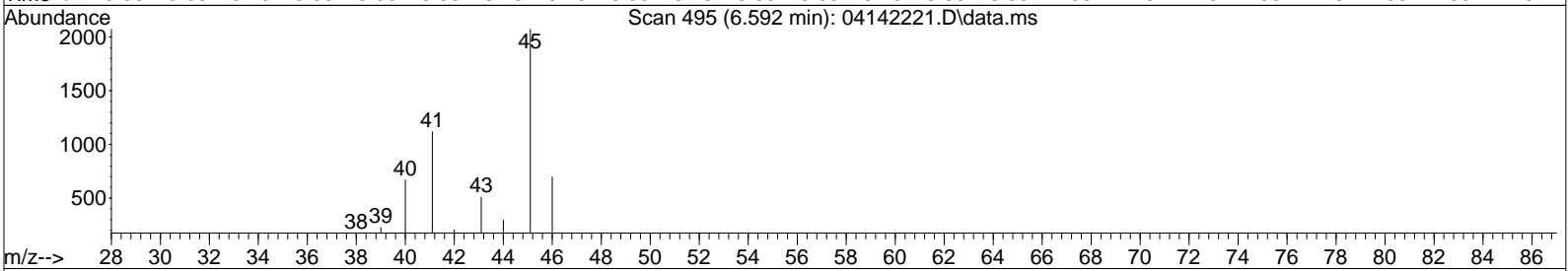
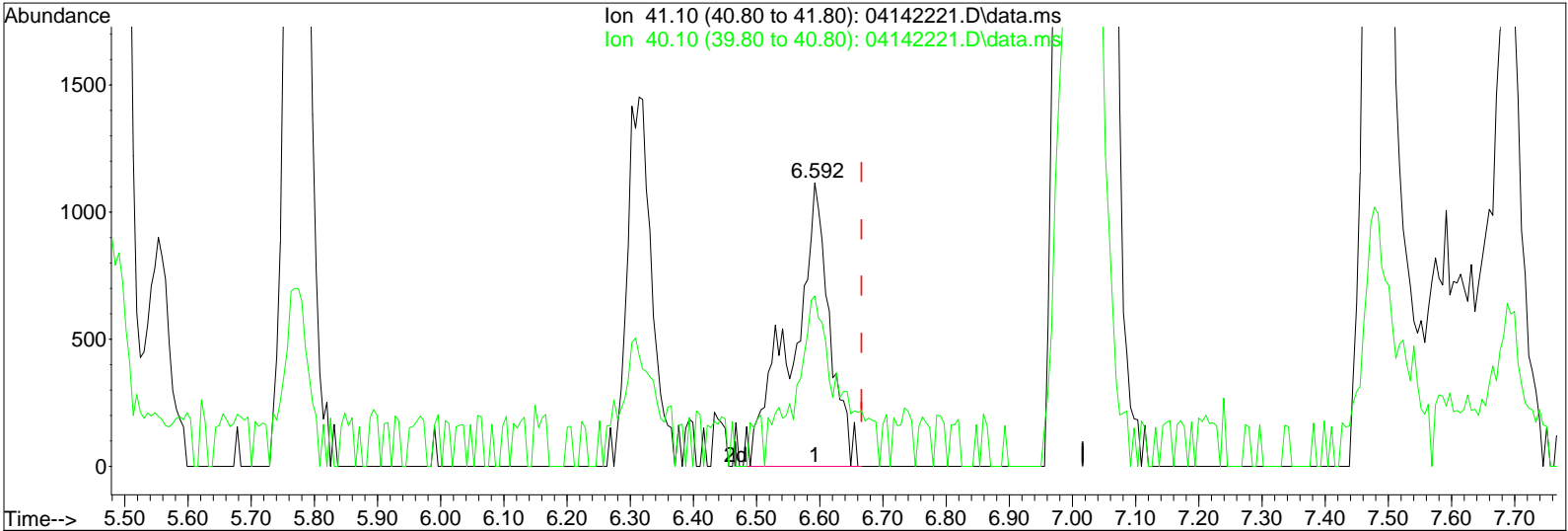
Tgt Ion:	Resp:	Lower	Upper
68	19126		
93	71.1	48.9	88.9



Data File : I:\MS09\DATA\2022 04\14\04142221.D
 Acq On : 14 Apr 2022 17:46
 Sample : P2201602-004 (1000mL)
 Misc : S35-04132201

Vial: 6
 Operator: SC
 Inst : MS09

Quant Time: Apr 15 01:25:13 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



TIC: 04142221.D\data.ms

(11) Acetonitrile (T)

6.592min (-0.074) 0.13ng

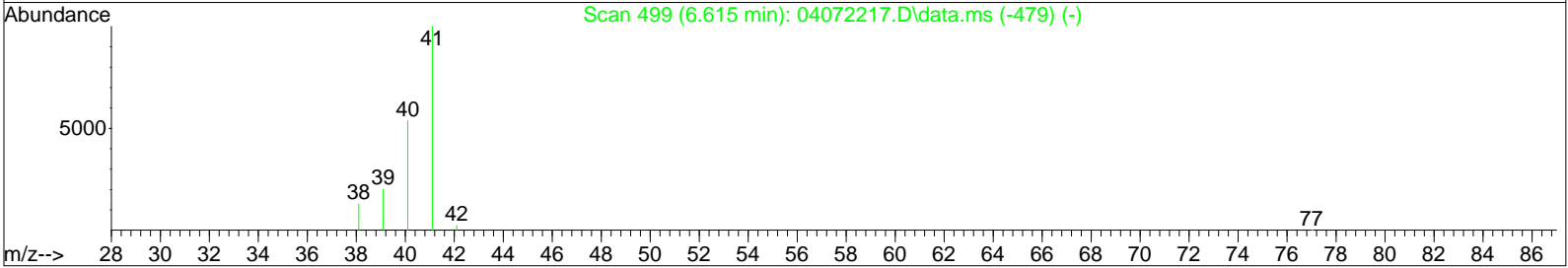
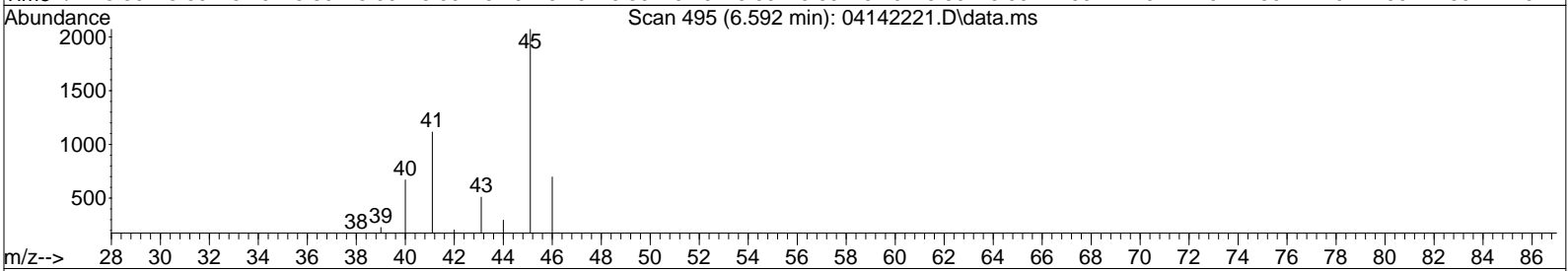
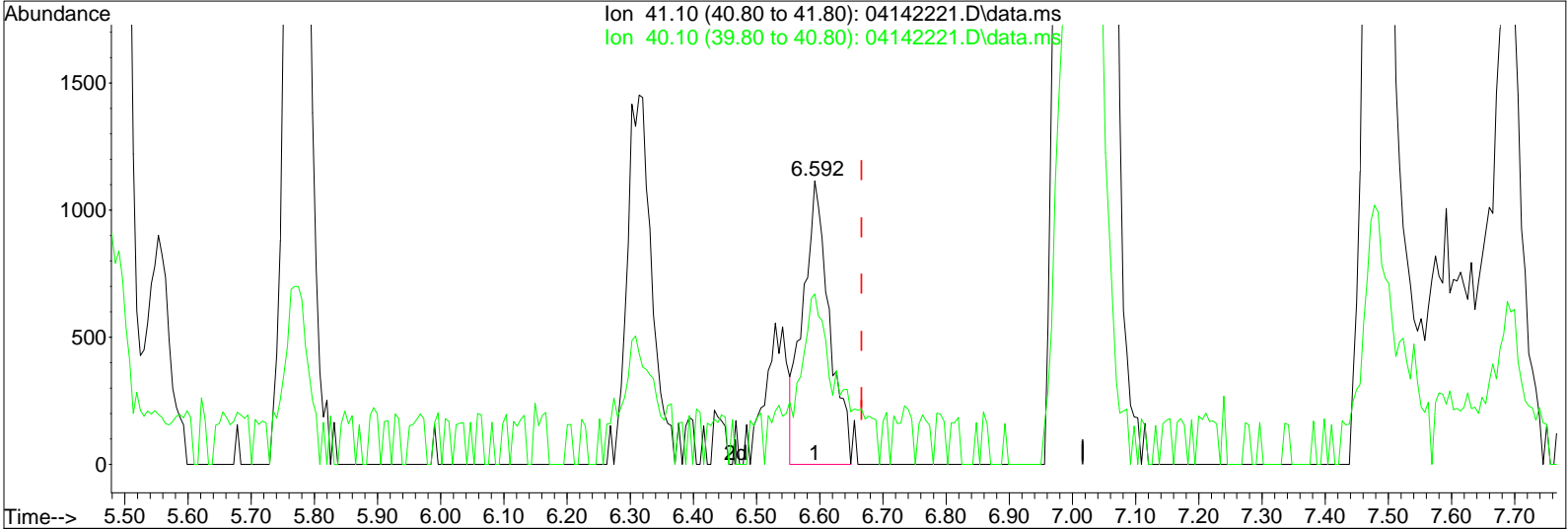
response 4652

Ion	Exp%	Act%
41.10	100	100
40.10	54.30	70.49
0.00	0.00	0.00
0.00	0.00	0.00

Data File : I:\MS09\DATA\2022 04\14\04142221.D
 Acq On : 14 Apr 2022 17:46
 Sample : P2201602-004 (1000mL)
 Misc : S35-04132201

Vial: 6
 Operator: SC
 Inst : MS09

Quant Time: Apr 15 01:25:13 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



TIC: 04142221.D\data.ms

(11) Acetonitrile (T)

6.592min (-0.074) 0.09ng m

response 3229

IPC

LH 4/15/22

Ion	Exp%	Act%
41.10	100	100
40.10	54.30	101.55#
0.00	0.00	0.00
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: NYS Department of Environmental Conservation

Client Sample ID: Building-2-SS1-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02365

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14/22

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.44 Final Pressure (psig): 4.02

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	3.7	0.64	2.1	0.37	
75-71-8	Dichlorodifluoromethane (CFC 12)	4.9	0.66	1.0	0.13	
74-87-3	Chloromethane	ND	0.26	ND	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.67	ND	0.096	
75-01-4	Vinyl Chloride	ND	0.14	ND	0.053	
106-99-0	1,3-Butadiene	ND	0.26	ND	0.12	
74-83-9	Bromomethane	ND	0.26	ND	0.067	
75-00-3	Chloroethane	ND	0.26	ND	0.099	
64-17-5	Ethanol	81	6.2	43	3.3	
75-05-8	Acetonitrile	ND	1.2	ND	0.74	
107-02-8	Acrolein	ND	1.2	ND	0.54	
67-64-1	Acetone	23	6.4	9.8	2.7	
75-69-4	Trichlorofluoromethane (CFC 11)	4.3	0.64	0.76	0.11	
67-63-0	2-Propanol (Isopropyl Alcohol)	19	1.2	7.8	0.50	
107-13-1	Acrylonitrile	ND	1.2	ND	0.57	
75-35-4	1,1-Dichloroethene	ND	0.14	ND	0.034	
75-09-2	Methylene Chloride	0.86	0.64	0.25	0.19	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.66	ND	0.21	
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.81	0.67	0.11	0.087	
75-15-0	Carbon Disulfide	ND	1.4	ND	0.44	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	ND	0.034	
75-34-3	1,1-Dichloroethane	ND	0.14	ND	0.034	
1634-04-4	Methyl tert-Butyl Ether	ND	0.66	ND	0.18	
108-05-4	Vinyl Acetate	ND	6.2	ND	1.8	
78-93-3	2-Butanone (MEK)	ND	1.2	ND	0.42	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3

Client: NYS Department of Environmental Conservation

Client Sample ID: Building-2-SS1-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02365

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14/22

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.44 Final Pressure (psig): 4.02

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.14	ND	0.034	
141-78-6	Ethyl Acetate	ND	2.6	ND	0.72	
110-54-3	n-Hexane	ND	0.66	ND	0.19	
67-66-3	Chloroform	0.39	0.14	0.081	0.028	
109-99-9	Tetrahydrofuran (THF)	ND	1.2	ND	0.42	
107-06-2	1,2-Dichloroethane	ND	0.14	ND	0.034	
71-55-6	1,1,1-Trichloroethane	2.8	0.14	0.52	0.025	
71-43-2	Benzene	0.31	0.14	0.096	0.043	
56-23-5	Carbon Tetrachloride	1.2	0.14	0.20	0.022	
110-82-7	Cyclohexane	ND	1.4	ND	0.40	
78-87-5	1,2-Dichloropropane	ND	0.14	ND	0.030	
75-27-4	Bromodichloromethane	ND	0.14	ND	0.020	
79-01-6	Trichloroethene	ND	0.14	ND	0.025	
123-91-1	1,4-Dioxane	ND	0.64	ND	0.18	
80-62-6	Methyl Methacrylate	3.5	1.4	0.84	0.33	
142-82-5	n-Heptane	ND	0.66	ND	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.66	ND	0.14	
108-10-1	4-Methyl-2-pentanone	ND	1.4	ND	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	0.63	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.14	ND	0.025	
108-88-3	Toluene	16	0.64	4.3	0.17	
591-78-6	2-Hexanone	ND	1.4	ND	0.33	
124-48-1	Dibromochloromethane	ND	0.14	ND	0.016	
106-93-4	1,2-Dibromoethane	ND	0.14	ND	0.018	
123-86-4	n-Butyl Acetate	ND	1.4	ND	0.29	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3 of 3

Client: NYS Department of Environmental Conservation

Client Sample ID: Building-2-SS1-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02365

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14/22

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.44 Final Pressure (psig): 4.02

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.66	ND	0.14	
127-18-4	Tetrachloroethene	0.73	0.14	0.11	0.020	
108-90-7	Chlorobenzene	ND	0.64	ND	0.14	
100-41-4	Ethylbenzene	ND	0.64	ND	0.15	
179601-23-1	m,p-Xylenes	2.2	1.4	0.51	0.31	
75-25-2	Bromoform	ND	0.64	ND	0.062	
100-42-5	Styrene	ND	0.64	ND	0.15	
95-47-6	o-Xylene	0.71	0.64	0.16	0.15	
111-84-2	n-Nonane	ND	0.64	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	ND	0.020	
98-82-8	Cumene	ND	0.64	ND	0.13	
80-56-8	alpha-Pinene	1.3	0.67	0.23	0.12	
103-65-1	n-Propylbenzene	ND	0.66	ND	0.13	
622-96-8	4-Ethyltoluene	ND	0.66	ND	0.13	
108-67-8	1,3,5-Trimethylbenzene	ND	0.64	ND	0.13	
95-63-6	1,2,4-Trimethylbenzene	ND	0.64	ND	0.13	
100-44-7	Benzyl Chloride	ND	1.4	ND	0.26	
541-73-1	1,3-Dichlorobenzene	ND	0.64	ND	0.11	
106-46-7	1,4-Dichlorobenzene	ND	0.64	ND	0.11	
95-50-1	1,2-Dichlorobenzene	ND	0.66	ND	0.11	
5989-27-5	d-Limonene	1.3	0.64	0.23	0.12	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.2	ND	0.13	
120-82-1	1,2,4-Trichlorobenzene	ND	1.2	ND	0.17	
91-20-3	Naphthalene	ND	0.64	ND	0.12	
87-68-3	Hexachlorobutadiene	ND	0.64	ND	0.060	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Data File : I:\MS09\DATA\2022 04\14\04142222.D
 Acq On : 14 Apr 2022 18:19
 Sample : P2201602-005 (1000mL)
 Misc : S35-04132201

Vial: 7
 Operator: SC
 Inst : MS09

Quant Time: Apr 15 01:33:45 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

LH 4/15/22

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	11.17	130	143007	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	13.31	114	633662	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.64	54	165284	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.03	65	282861	12.931	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery	=	103.44%	
57) Toluene-d8 (SS2)	15.77	98	745286	12.375	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	98.96%	
73) Bromofluorobenzene (SS3)	19.03	174	226806	10.693	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	85.52%	

Target Compounds

						Qvalue
2) Propene	4.05	42	58298	2.954	ng	95
3) Dichlorodifluoromethan...	4.21	85	107385	3.975	ng	99
4) Chloromethane	4.50	50	3780	0.169	ng	96
5) 1,2-Dichloro-1,1,2,2-t...	4.76	135	1018	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.11	54	111	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.33	45	939894	65.289	ng	100
11) Acetonitrile	6.65	41	175	N.D.		
12) Acrolein	6.79	56	2443	0.277	ng	94
13) Acetone	6.98	58	212141	18.720	ng	# 86
14) Trichlorofluoromethane	7.24	101	86360	3.431	ng	99
15) 2-Propanol (Isopropanol)	7.49	45	696633	15.552	ng	100
16) Acrylonitrile	0.00	53	0	N.D.	d	
17) 1,1-Dichloroethene	8.20	96	332	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	8.43	84	8222	0.697	ng	99
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	8.86	151	7061	0.656	ng	86
22) Carbon Disulfide	8.70	76	4101	0.103	ng	91
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	10.13	73	123	N.D.		
26) Vinyl Acetate	10.20	86	1297	0.636	ng	# 8
27) 2-Butanone (MEK)	10.50	72	6502	0.821	ng	99
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	11.35	87	744	N.D.		
30) Ethyl Acetate	11.31	61	8868	1.568	ng	99
31) n-Hexane	11.29	57	8954	0.351	ng	99
32) Chloroform	11.34	83	7026	0.318	ng	96
34) Tetrahydrofuran (THF)	11.78	72	3083	0.406	ng	93
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	12.15	62	1867	0.096	ng	97
38) 1,1,1-Trichloroethane	12.43	97	49391	2.277	ng	99
39) Isopropyl Acetate	13.31	61	22369	No Calib		
40) 1-Butanol	12.89	56	29554	No Calib	#	
41) Benzene	12.91	78	12056	0.246	ng	99
42) Carbon Tetrachloride	13.07	117	18746	0.994	ng	98
43) Cyclohexane	13.20	84	2959	0.157	ng	93
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	13.76	63	176	N.D.		
46) Bromodichloromethane	13.99	83	418	N.D.		
47) Trichloroethene	14.02	130	485	N.D.		
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	14.22	100	13696	2.786	ng	94

Data File : I:\MS09\DATA\2022 04\14\04142222.D
 Acq On : 14 Apr 2022 18:19
 Sample : P2201602-005 (1000mL)
 Misc : S35-04132201

Vial: 7
 Operator: SC
 Inst : MS09

Quant Time: Apr 15 01:33:45 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

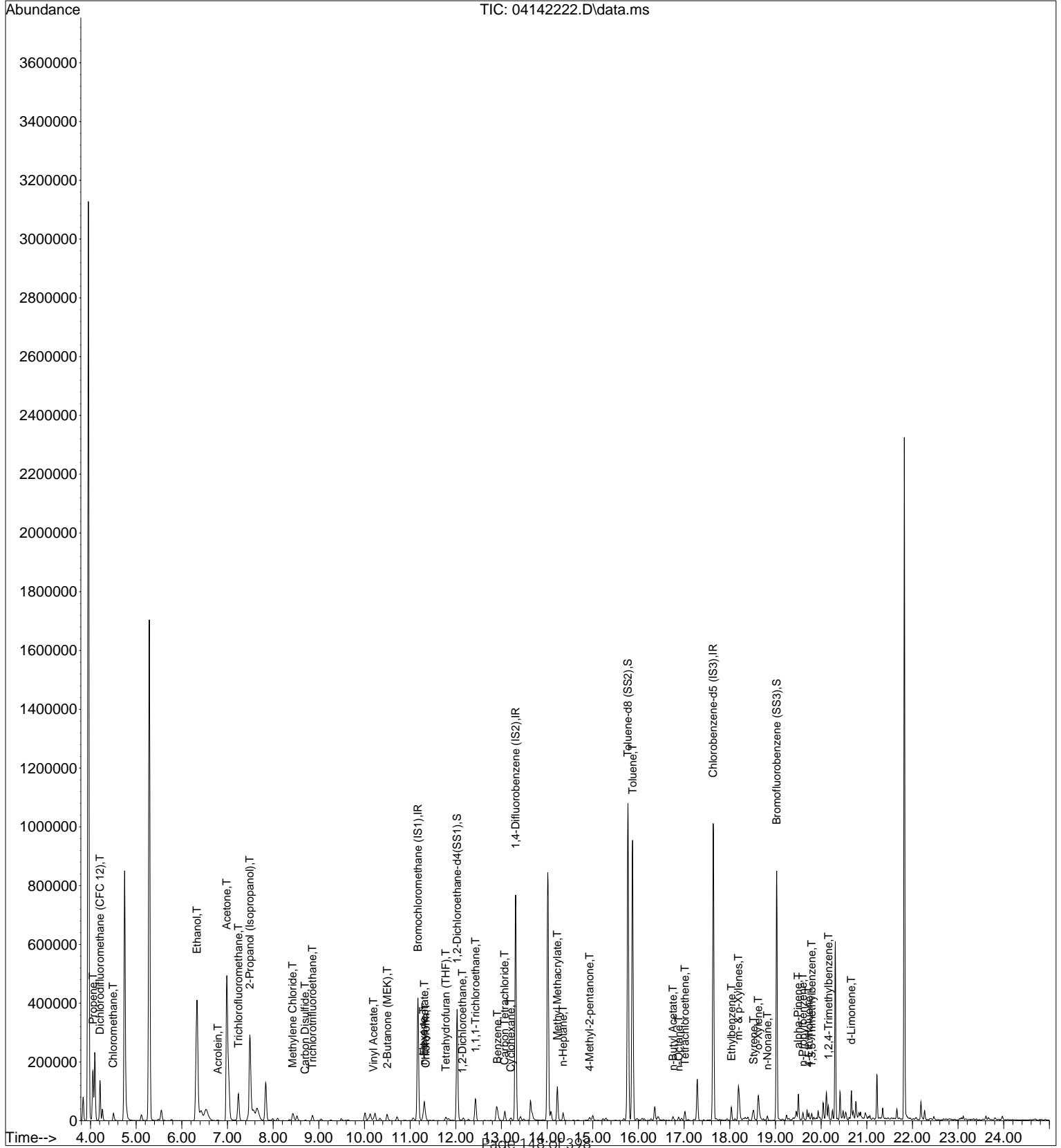
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
51) n-Heptane	14.35	71	5038	0.393	ng	98
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	14.93	58	2682	0.193	ng #	73
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.87	91	728937	13.162	ng	99
59) 2-Hexanone	16.13	43	3750	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.76	43	13816	0.297	ng	94
63) n-Octane	16.88	57	2250	0.162	ng	95
64) Tetrachloroethene	17.02	166	9316	0.591	ng	96
65) Chlorobenzene	17.71	112	424	N.D.		
66) Ethylbenzene	18.03	91	31948	0.507	ng	98
67) m- & p-Xylenes	18.19	91	91164	1.800	ng	99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.52	104	7003	0.194	ng	91
70) o-Xylene	18.62	91	29304	0.573	ng	97
71) n-Nonane	18.82	43	6075	0.155	ng	99
72) 1,1,2,2-Tetrachloroethane	18.64	83	177	N.D.		
74) Cumene	19.15	105	2120	N.D.		
75) alpha-Pinene	19.50	93	31388	1.027	ng	97
76) n-Propylbenzene	19.60	91	7527	0.097	ng #	63
77) 3-Ethyltoluene	19.73	105	8203	No Calib		
78) 4-Ethyltoluene	19.73	105	8203	0.131	ng	93
79) 1,3,5-Trimethylbenzene	19.79	105	7454	0.141	ng	95
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.66	105	1567	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.16	105	21402	0.392	ng	91
83) n-Decane	20.53	58	727	No Calib	#	
84) Benzyl Chloride	20.36	91	477	N.D.		
85) 1,3-Dichlorobenzene	20.35	146	733	N.D.		
86) 1,4-Dichlorobenzene	20.35	146	733	N.D.		
87) sec-Butylbenzene	20.40	105	676	N.D.		
88) 4-Isopropyltoluene (p-...	20.54	119	5102	N.D.		
89) 1,2,3-Trimethylbenzene	20.40	105	676	No Calib	#	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	20.66	68	21206	1.043	ng	93
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	21.35	58	522	No Calib	#	
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	22.28	128	5706	N.D.		
96) n-Dodecane	22.26	58	317	No Calib	#	
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	18.64	55	5319	No Calib	#	
99) tert-Butylbenzene	20.16	119	2507	N.D.		
100) n-Butylbenzene	20.90	91	2236	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\2022 04\14\04142222.D
Acq On : 14 Apr 2022 18:19
Sample : P2201602-005 (1000mL)
Misc : S35-04132201

Vial: 7
Operator: SC
Inst : MS09

Quant Time: Apr 15 01:33:45 2022
Quant Method : I:\MS09\Methods\R9040722.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Apr 07 16:31:14 2022
Response via : Initial Calibration
DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2022 04\14\04142222.D
 Acq On : 14 Apr 2022 18:19
 Sample : P2201602-005 (1000mL)
 Misc : S35-04132201

Vial: 7
 Operator: SC
 Inst : MS09

Quant Time: Apr 15 01:33:45 2022

Quant Method : I:\MS09\Methods\R9040722.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

LH 4/15/22

QLast Update : Thu Apr 07 16:31:14 2022

Response via : Initial Calibration

DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	11.17	130	143007	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	13.31	114	633662	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.64	54	165284	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.03	65	282861	12.931	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery	=	103.44%	
57) Toluene-d8 (SS2)	15.77	98	745286	12.375	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	98.96%	
73) Bromofluorobenzene (SS3)	19.03	174	226806	10.693	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	85.52%	

Target Compounds

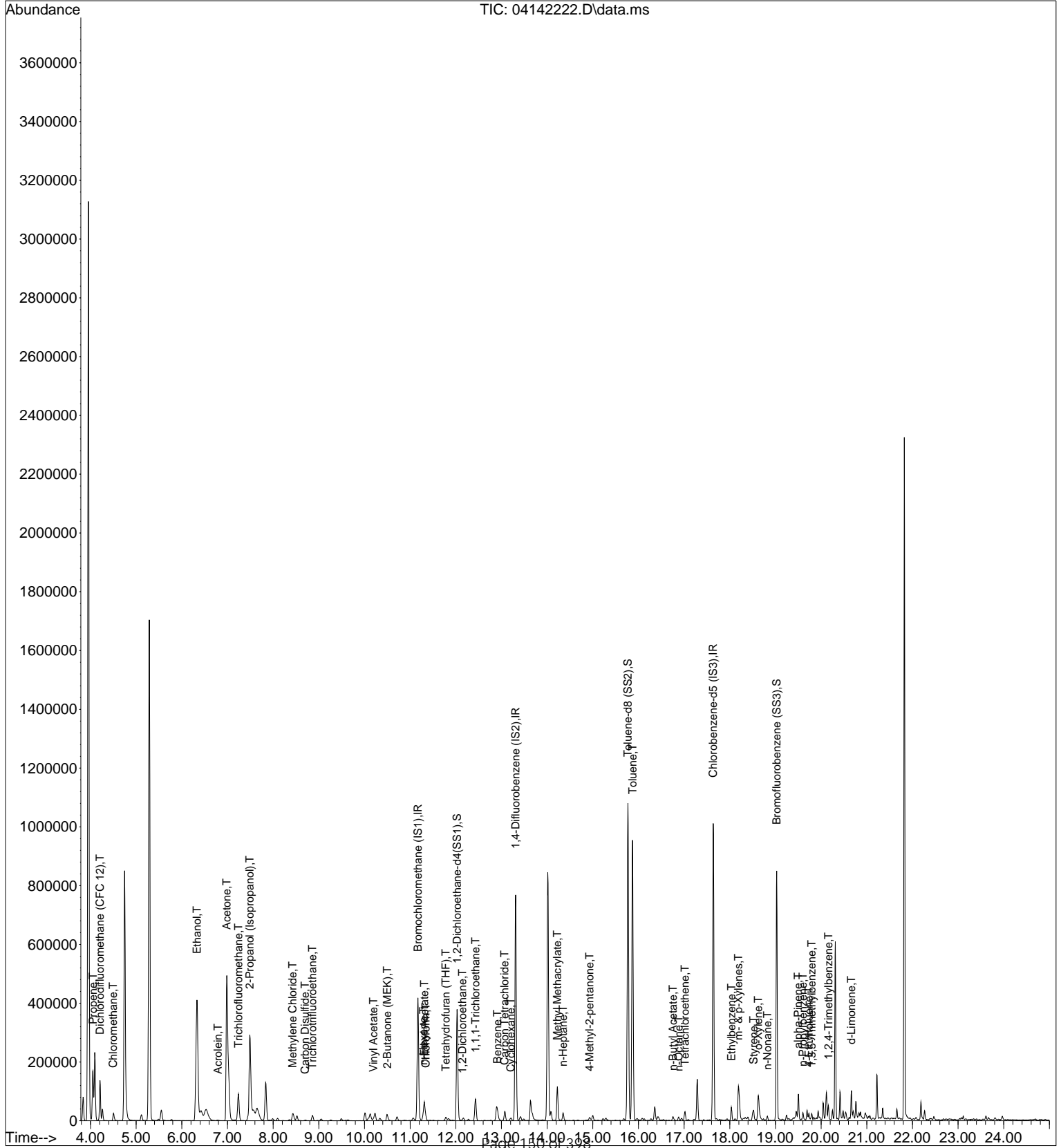
	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.05	42	58298	2.954	ng	95
3) Dichlorodifluoromethan...	4.21	85	107385	3.975	ng	99
4) Chloromethane	4.50	50	3780	0.169	ng	96
10) Ethanol	6.33	45	939894	65.289	ng	100
12) Acrolein	6.79	56	2443	0.277	ng	94
13) Acetone	6.98	58	212141	18.720	ng	# 86
14) Trichlorofluoromethane	7.24	101	86360	3.431	ng	99
15) 2-Propanol (Isopropanol)	7.49	45	696633	15.552	ng	100
19) Methylene Chloride	8.43	84	8222	0.697	ng	99
21) Trichlorotrifluoroethane	8.86	151	7061	0.656	ng	86
22) Carbon Disulfide	8.70	76	4101	0.103	ng	91
26) Vinyl Acetate	10.20	86	1297	0.636	ng	# 8
27) 2-Butanone (MEK)	10.50	72	6502	0.821	ng	99
30) Ethyl Acetate	11.31	61	8868	1.568	ng	99
31) n-Hexane	11.29	57	8954	0.351	ng	99
32) Chloroform	11.34	83	7026	0.318	ng	96
34) Tetrahydrofuran (THF)	11.78	72	3083	0.406	ng	93
36) 1,2-Dichloroethane	12.15	62	1867	0.096	ng	97
38) 1,1,1-Trichloroethane	12.43	97	49391	2.277	ng	99
41) Benzene	12.91	78	12056	0.246	ng	99
42) Carbon Tetrachloride	13.07	117	18746	0.994	ng	98
43) Cyclohexane	13.20	84	2959	0.157	ng	93
50) Methyl Methacrylate	14.22	100	13696	2.786	ng	94
51) n-Heptane	14.35	71	5038	0.393	ng	98
53) 4-Methyl-2-pentanone	14.93	58	2682	0.193	ng	# 73
58) Toluene	15.87	91	728937	13.162	ng	99
62) n-Butyl Acetate	16.76	43	13816	0.297	ng	94
63) n-Octane	16.88	57	2250	0.162	ng	95
64) Tetrachloroethene	17.02	166	9316	0.591	ng	96
66) Ethylbenzene	18.03	91	31948	0.507	ng	98
67) m- & p-Xylenes	18.19	91	91164	1.800	ng	99
69) Styrene	18.52	104	7003	0.194	ng	91
70) o-Xylene	18.62	91	29304	0.573	ng	97
71) n-Nonane	18.82	43	6075	0.155	ng	99
75) alpha-Pinene	19.50	93	31388	1.027	ng	97
76) n-Propylbenzene	19.60	91	7527	0.097	ng	# 63
78) 4-Ethyltoluene	19.73	105	8203	0.131	ng	93
79) 1,3,5-Trimethylbenzene	19.79	105	7454	0.141	ng	95
82) 1,2,4-Trimethylbenzene	20.16	105	21402	0.392	ng	91
91) d-Limonene	20.66	68	21206	1.043	ng	93

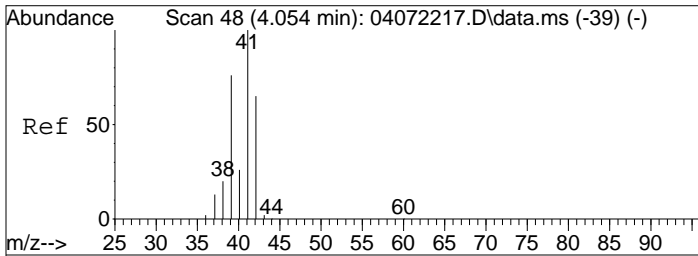
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS09\DATA\2022 04\14\04142222.D
Acq On : 14 Apr 2022 18:19
Sample : P2201602-005 (1000mL)
Misc : S35-04132201

Vial: 7
Operator: SC
Inst : MS09

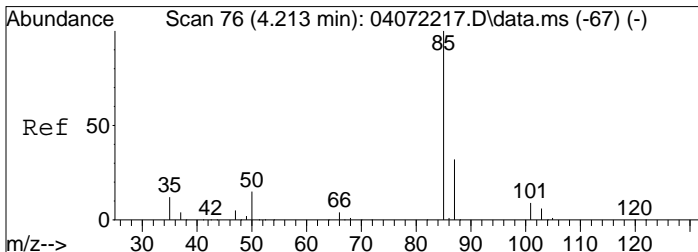
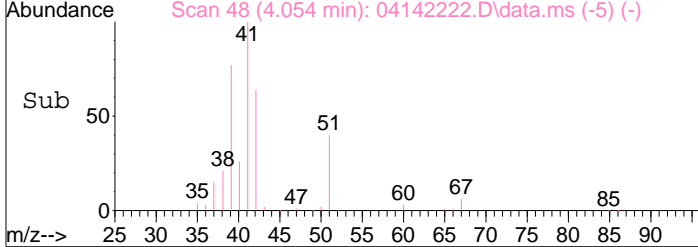
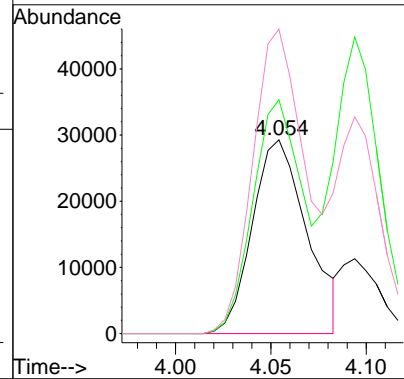
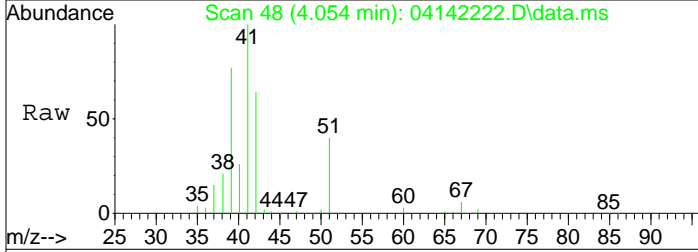
Quant Time: Apr 15 01:33:45 2022
Quant Method : I:\MS09\Methods\R9040722.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Apr 07 16:31:14 2022
Response via : Initial Calibration
DataAcq Meth:TO15.M





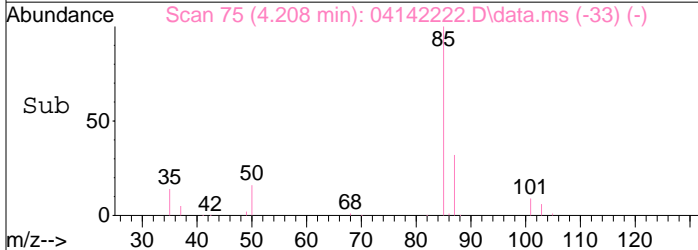
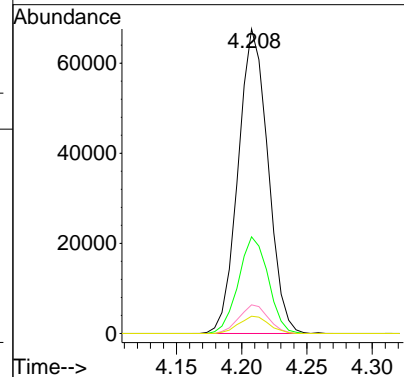
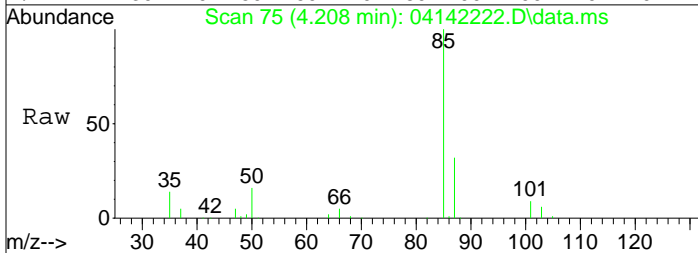
#2
 Propene
 Concen: 2.95 ng
 RT: 4.05 min Scan# 48
 Delta R.T. -0.006 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

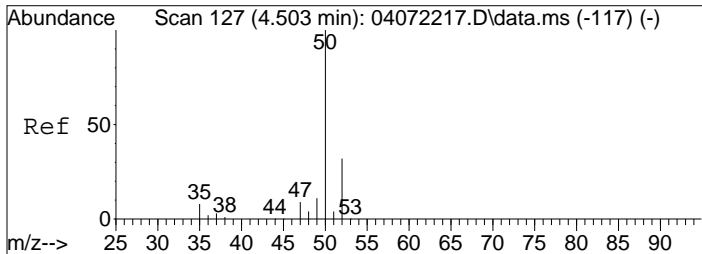
Tgt Ion	Resp	Lower	Upper
42	100		
39	107.2	96.7	136.7
41	149.6	132.4	172.4



#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 3.98 ng
 RT: 4.21 min Scan# 75
 Delta R.T. -0.011 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

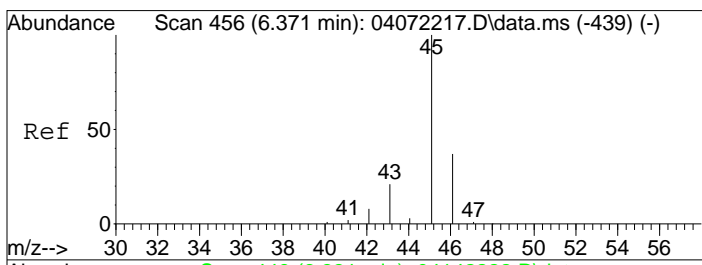
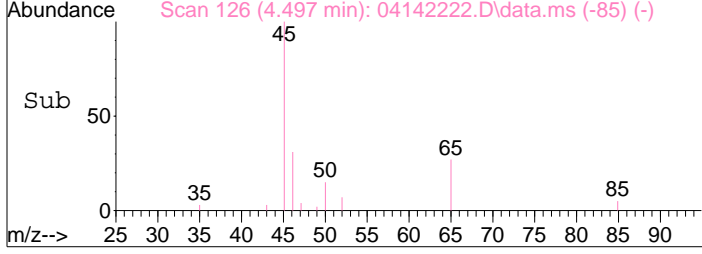
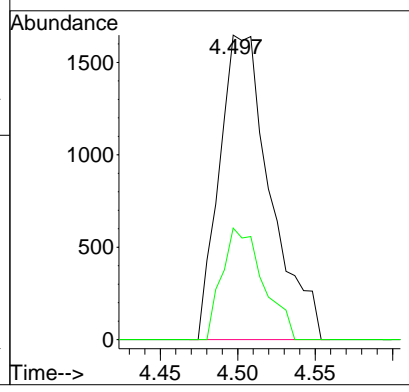
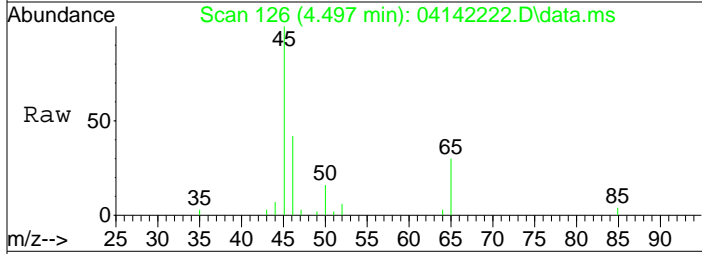
Tgt Ion	Resp	Lower	Upper
85	100		
87	31.7	12.2	52.2
101	9.2	0.0	29.3
103	5.7	0.0	26.0





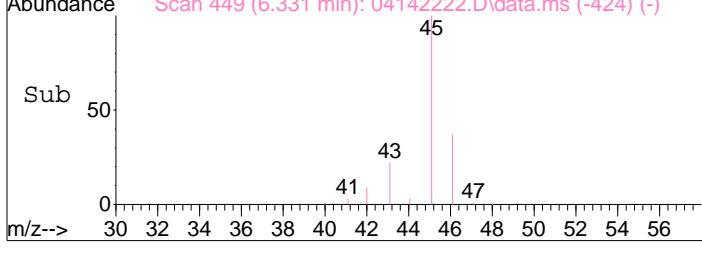
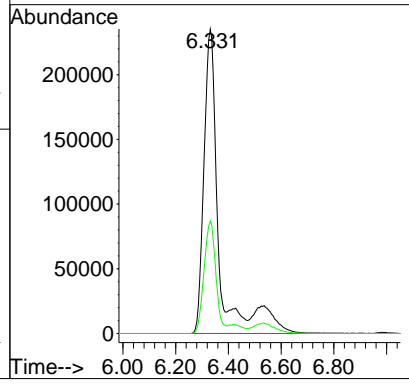
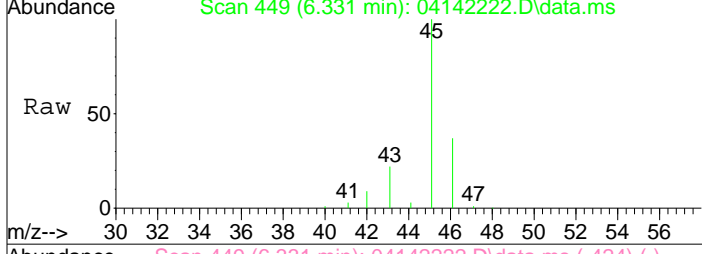
#4
 Chloromethane
 Concen: 0.17 ng
 RT: 4.50 min Scan# 126
 Delta R.T. -0.017 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

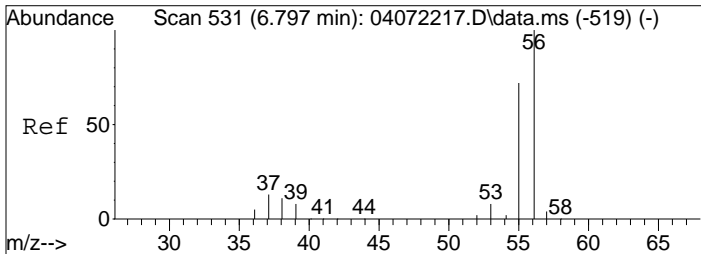
Tgt Ion	Resp	Lower	Upper
50	3780		
52	29.7	11.8	51.8



#10
 Ethanol
 Concen: 65.29 ng
 RT: 6.33 min Scan# 449
 Delta R.T. -0.108 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

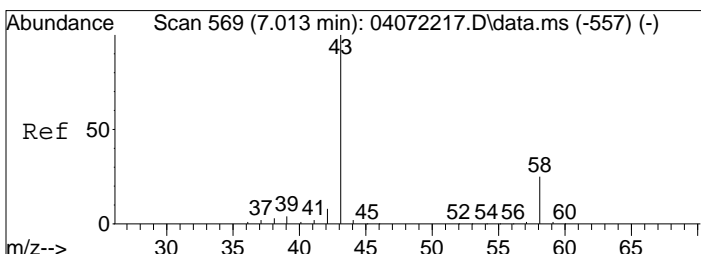
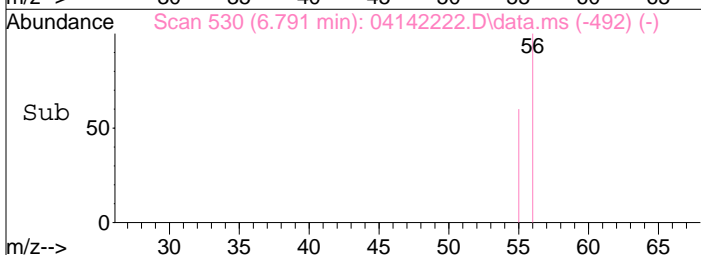
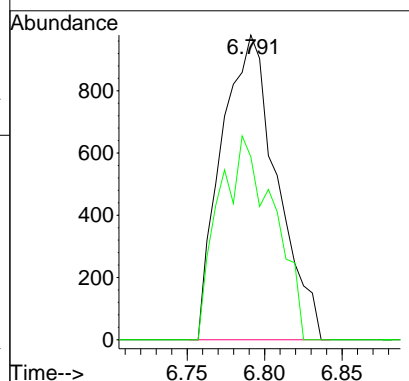
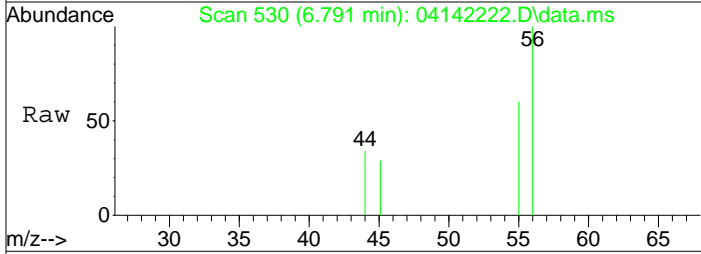
Tgt Ion	Resp	Lower	Upper
45	939894		
46	36.7	16.7	56.7





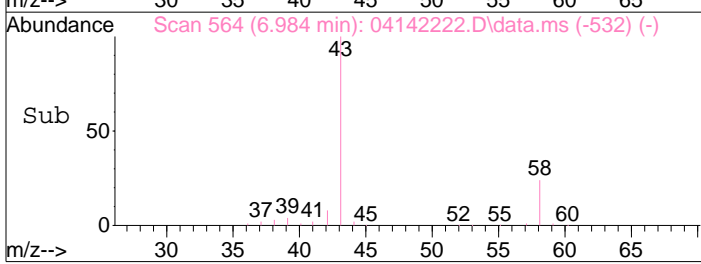
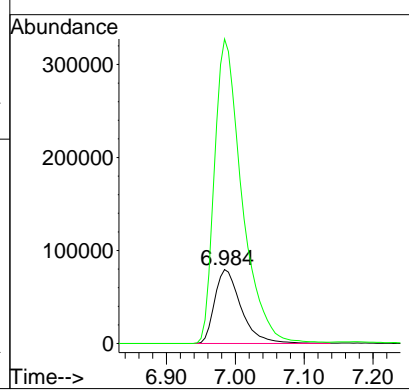
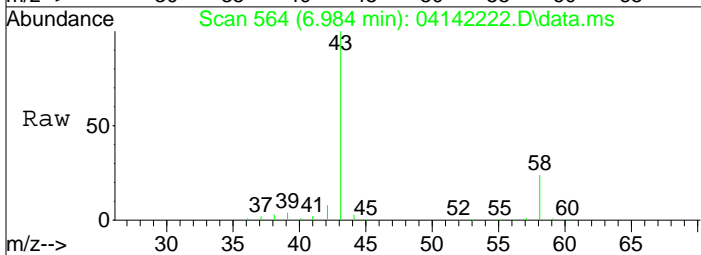
#12
 Acrolein
 Concen: 0.28 ng
 RT: 6.79 min Scan# 530
 Delta R.T. -0.034 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

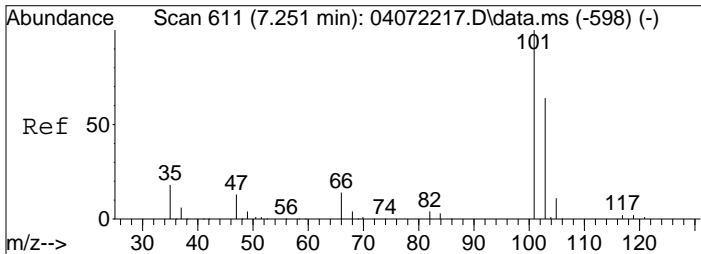
Tgt Ion:	Resp:	Lower	Upper
56	100		
55	66.3	51.3	91.3



#13
 Acetone
 Concen: 18.72 ng
 RT: 6.98 min Scan# 564
 Delta R.T. -0.068 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

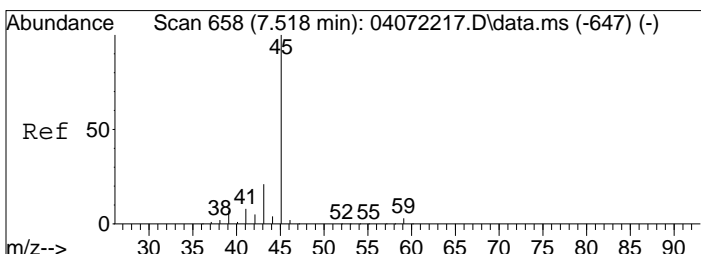
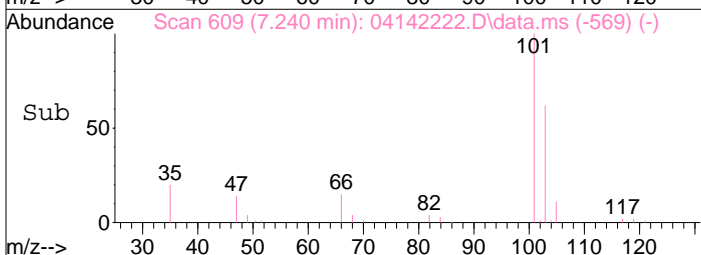
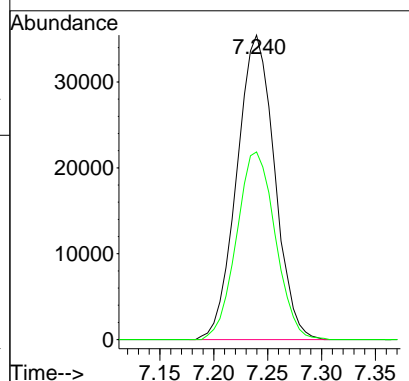
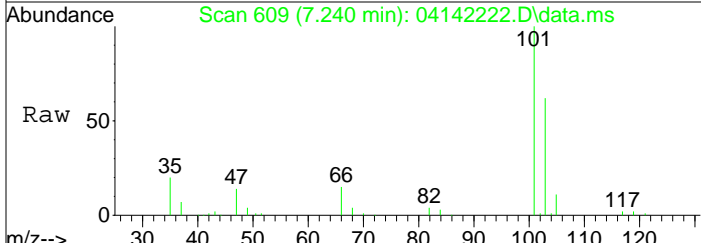
Tgt Ion:	Resp:	Lower	Upper
58	100		
43	433.0	370.7	430.7#





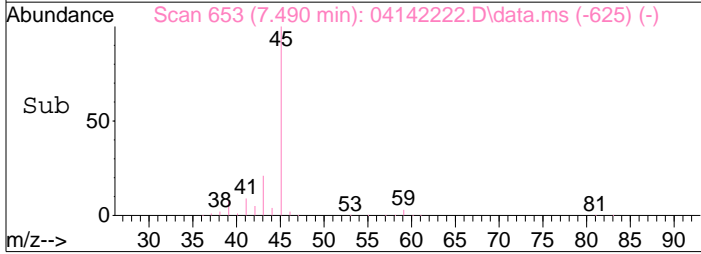
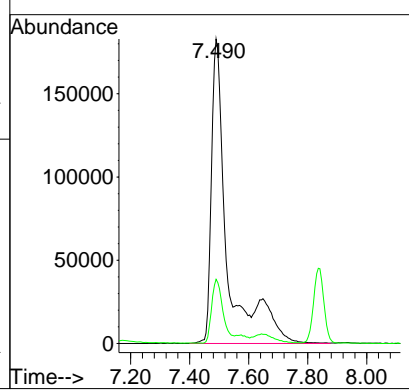
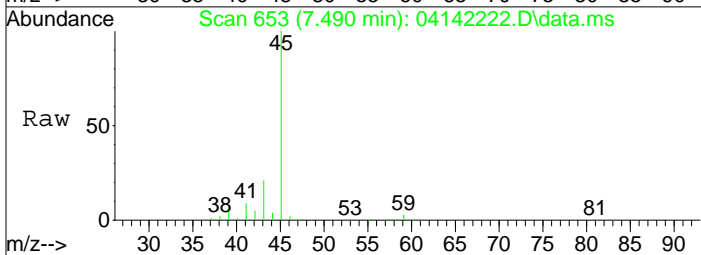
#14
 Trichlorofluoromethane
 Concen: 3.43 ng
 RT: 7.24 min Scan# 609
 Delta R.T. -0.023 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

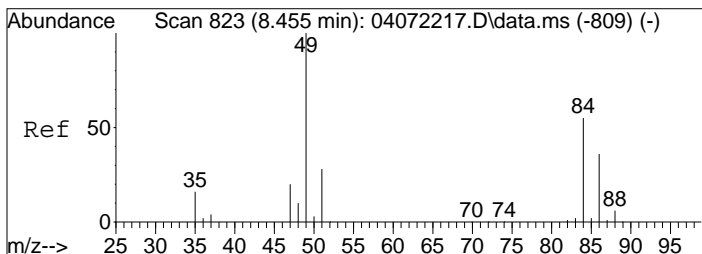
Tgt Ion	Resp	Lower	Upper
101	86360		
103	63.2	43.8	83.8



#15
 2-Propanol (Isopropanol)
 Concen: 15.55 ng
 RT: 7.49 min Scan# 653
 Delta R.T. -0.091 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

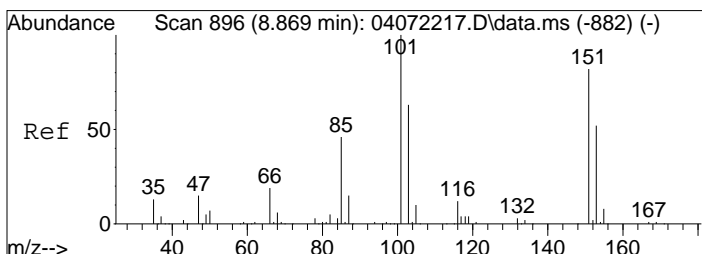
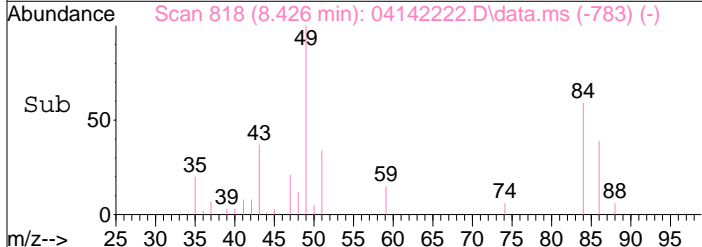
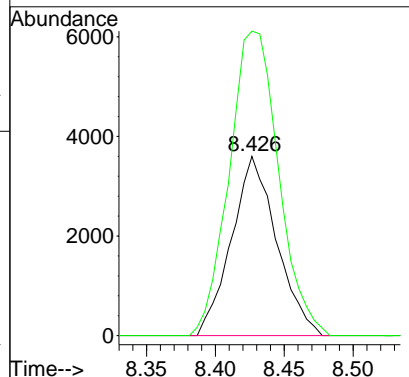
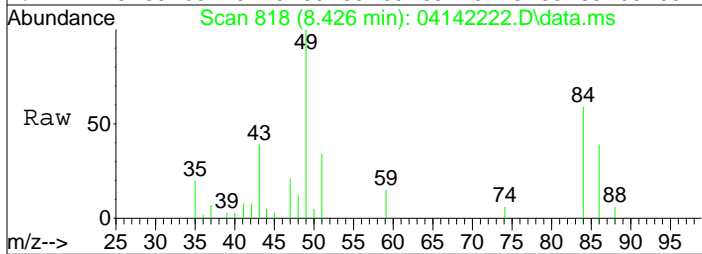
Tgt Ion	Resp	Lower	Upper
45	696633		
43	20.4	0.6	40.6





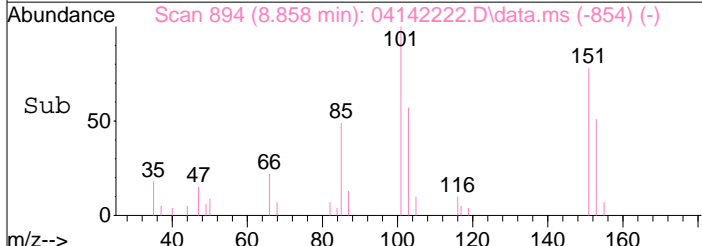
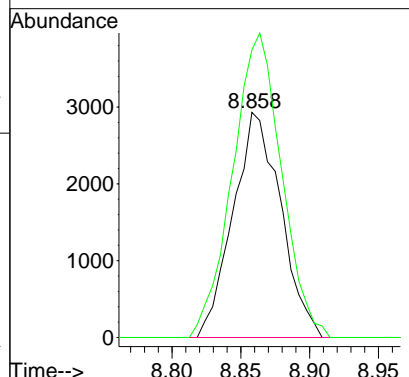
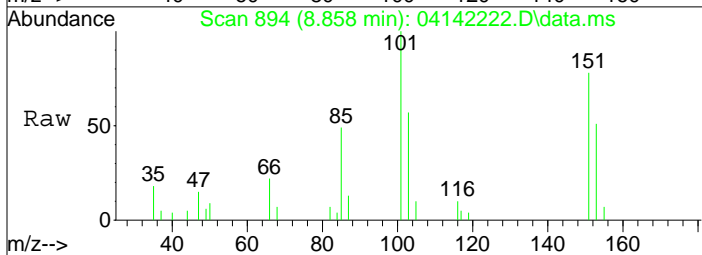
#19
 Methylene Chloride
 Concen: 0.70 ng
 RT: 8.43 min Scan# 818
 Delta R.T. -0.051 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

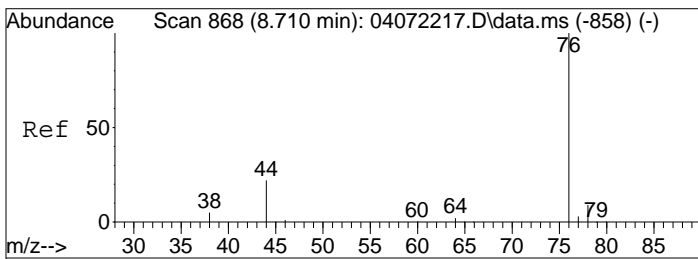
Tgt Ion: 84 Resp: 8222
 Ion Ratio Lower Upper
 84 100
 49 185.6 159.1 209.1



#21
 Trichlorotrifluoroethane
 Concen: 0.66 ng
 RT: 8.86 min Scan# 894
 Delta R.T. -0.023 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

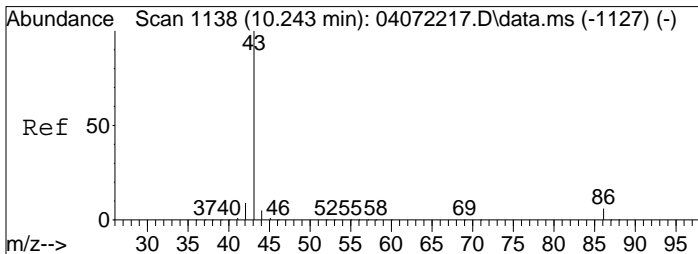
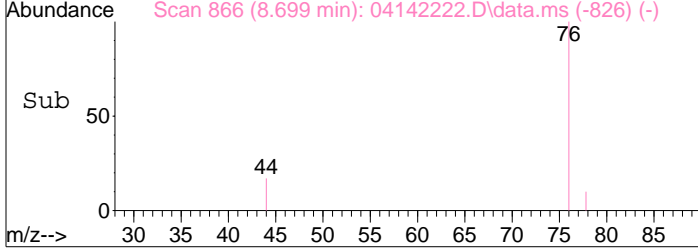
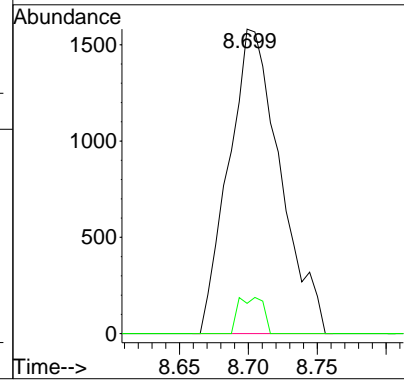
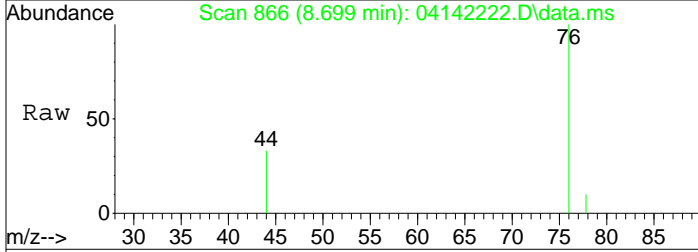
Tgt Ion: 151 Resp: 7061
 Ion Ratio Lower Upper
 151 100
 101 139.1 103.7 143.7





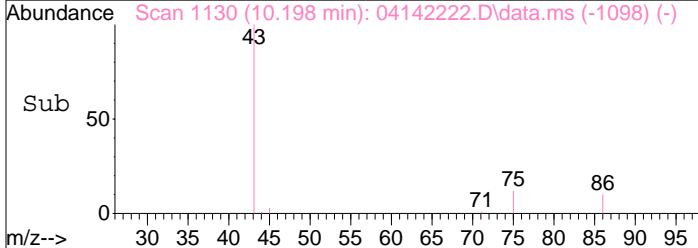
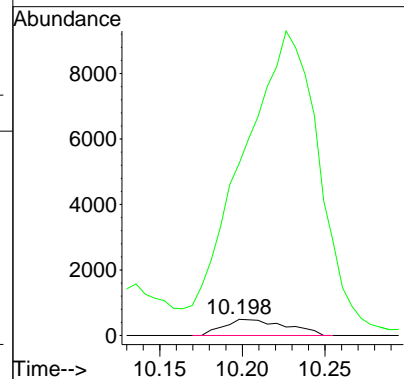
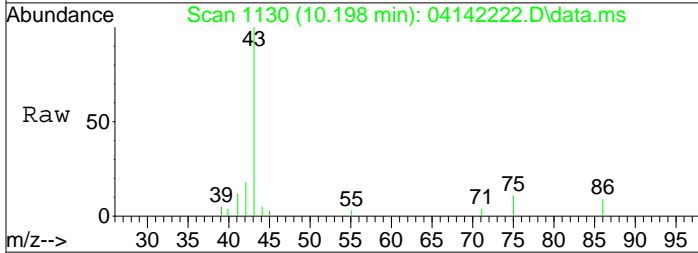
#22
 Carbon Disulfide
 Concen: 0.10 ng
 RT: 8.70 min Scan# 866
 Delta R.T. -0.023 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

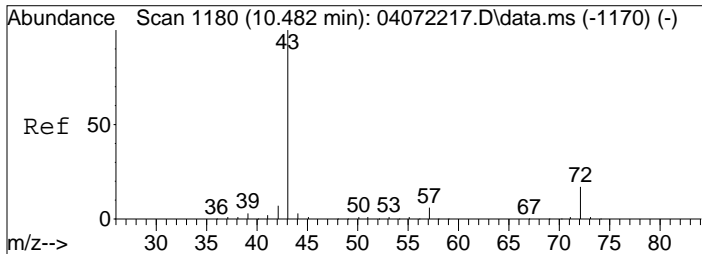
Tgt Ion	Resp	Lower	Upper
76	100		
78	5.8	0.0	29.2



#26
 Vinyl Acetate
 Concen: 0.64 ng
 RT: 10.20 min Scan# 1130
 Delta R.T. -0.068 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

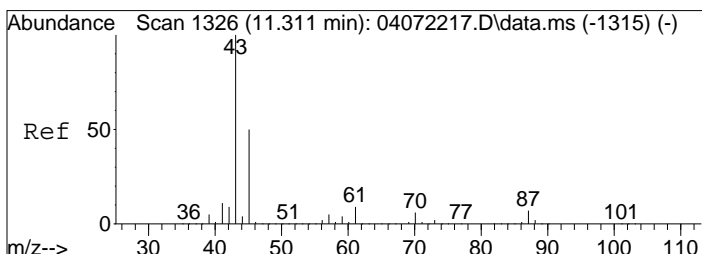
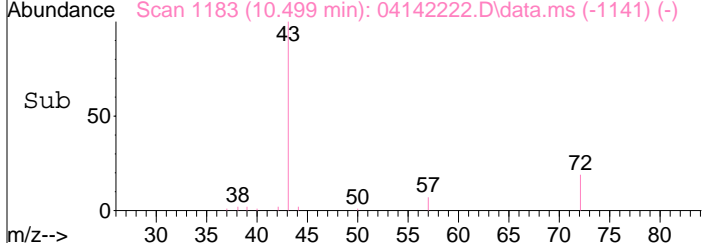
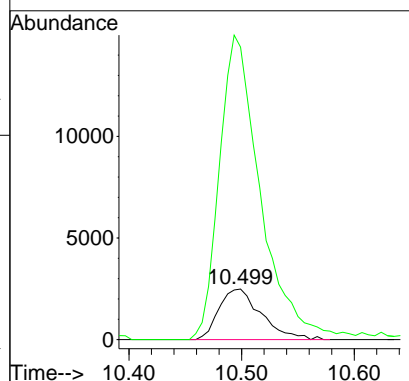
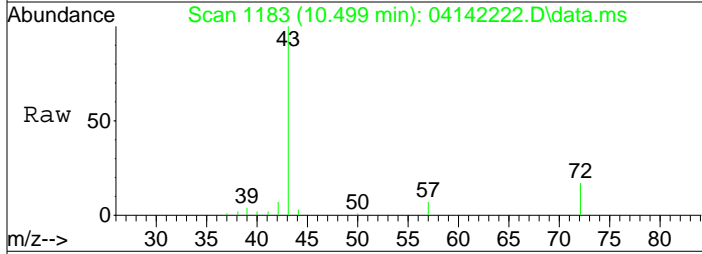
Tgt Ion	Resp	Lower	Upper
86	100		
43	2313.9	1690.9	1730.9#





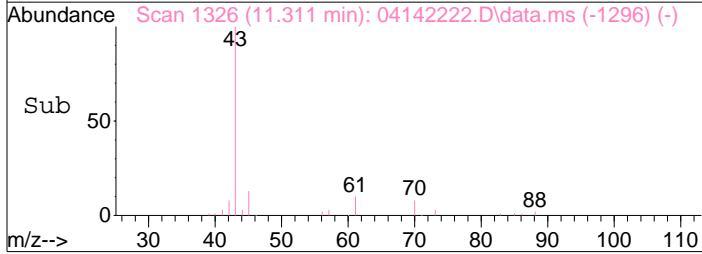
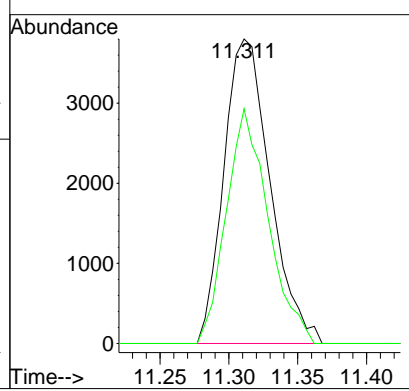
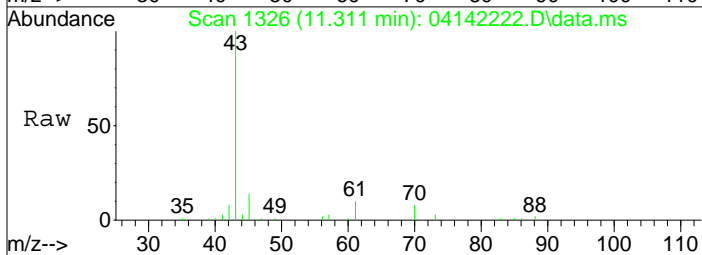
#27
 2-Butanone (MEK)
 Concen: 0.82 ng
 RT: 10.50 min Scan# 1183
 Delta R.T. -0.011 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

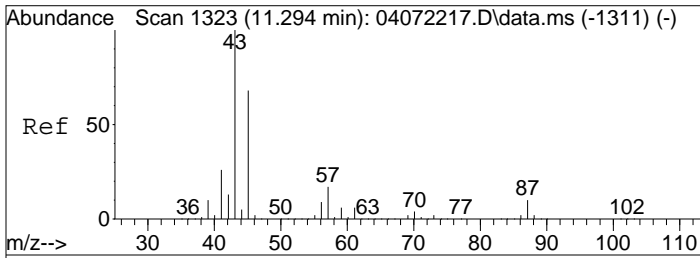
Tgt Ion:	Resp:	Lower	Upper
72	6502		
72	100		
43	589.7	565.1	605.1



#30
 Ethyl Acetate
 Concen: 1.57 ng
 RT: 11.31 min Scan# 1326
 Delta R.T. -0.028 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

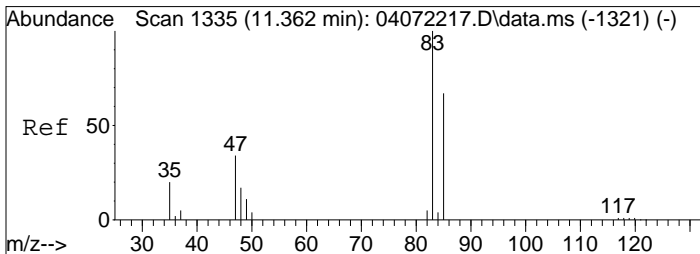
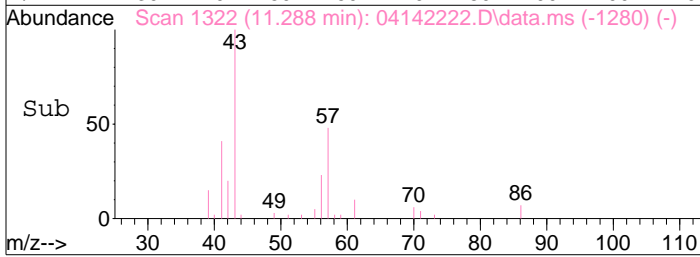
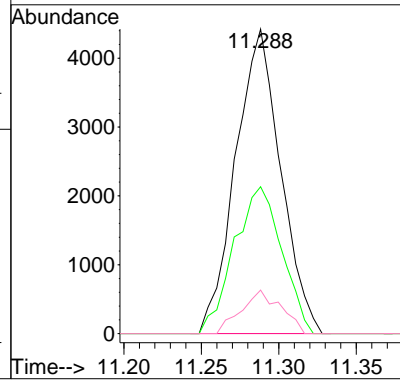
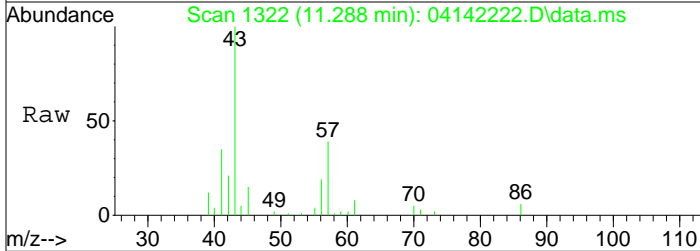
Tgt Ion:	Resp:	Lower	Upper
61	8868		
61	100		
70	69.9	50.8	90.8





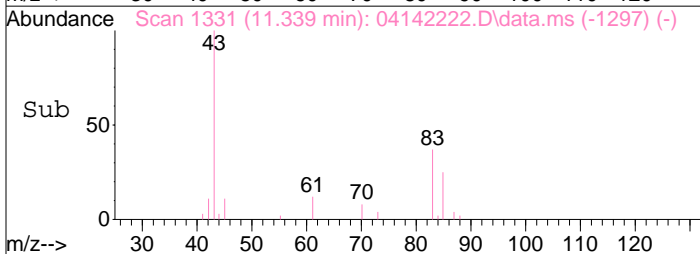
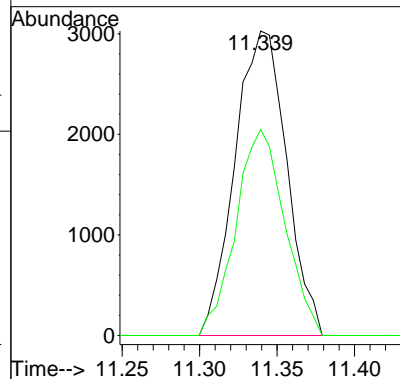
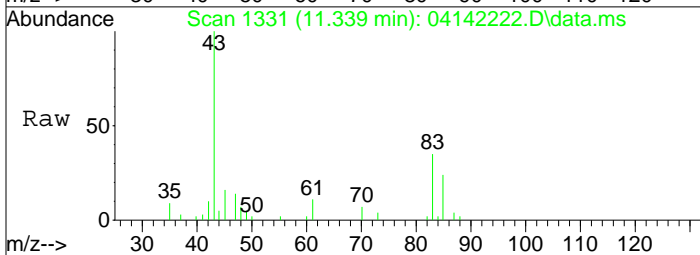
#31
 n-Hexane
 Concen: 0.35 ng
 RT: 11.29 min Scan# 1322
 Delta R.T. -0.011 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

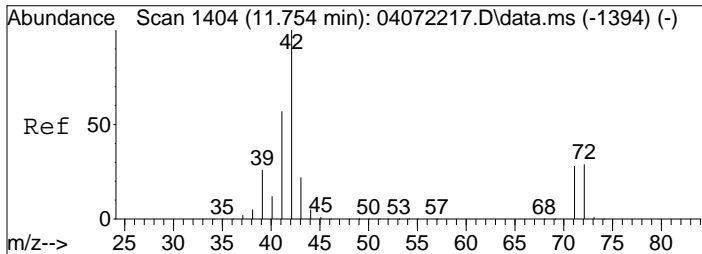
Tgt Ion:	Resp:	Lower	Upper
57	100		
56	51.0	41.4	62.2
86	12.6	9.9	14.9



#32
 Chloroform
 Concen: 0.32 ng
 RT: 11.34 min Scan# 1331
 Delta R.T. -0.057 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

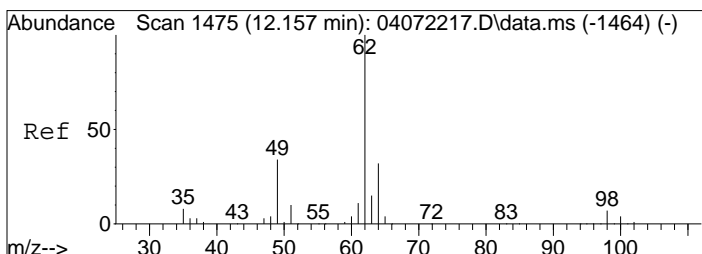
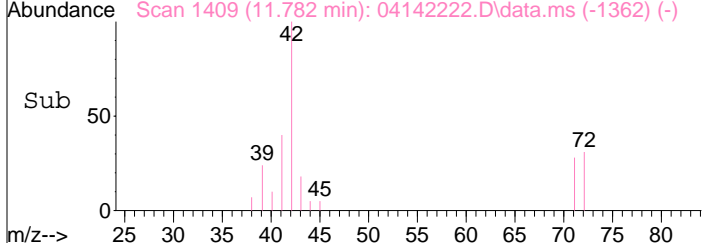
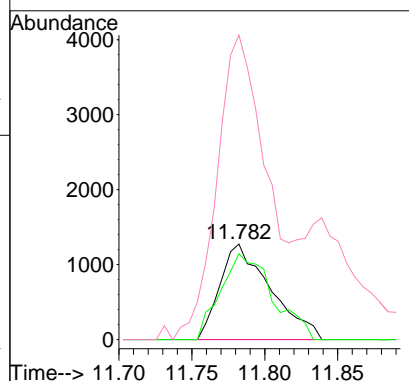
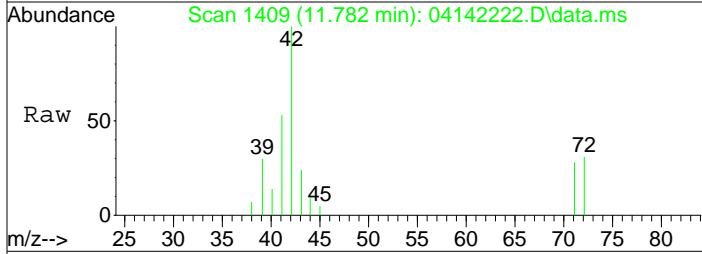
Tgt Ion:	Resp:	Lower	Upper
83	100		
85	64.0	47.1	87.1





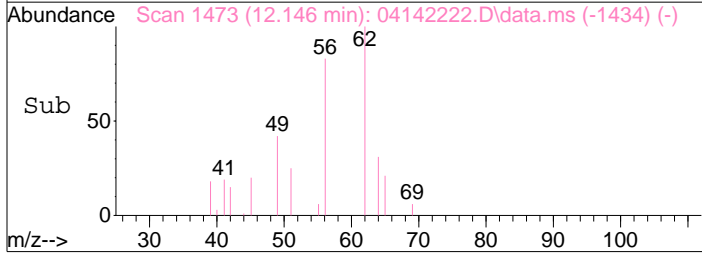
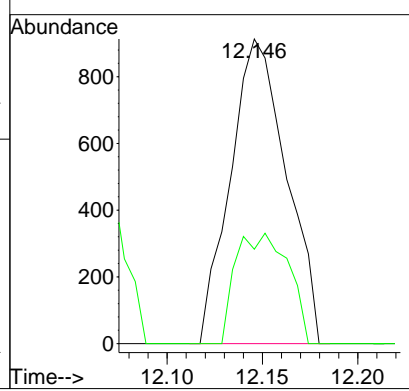
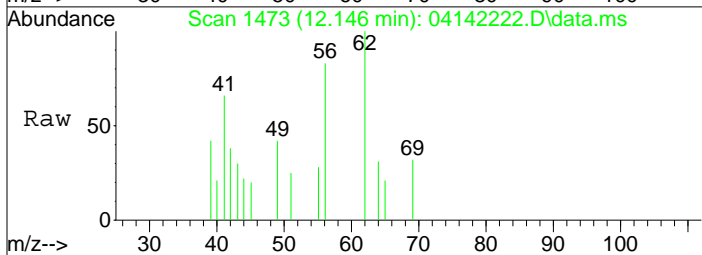
#34
 Tetrahydrofuran (THF)
 Concen: 0.41 ng
 RT: 11.78 min Scan# 1409
 Delta R.T. 0.017 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

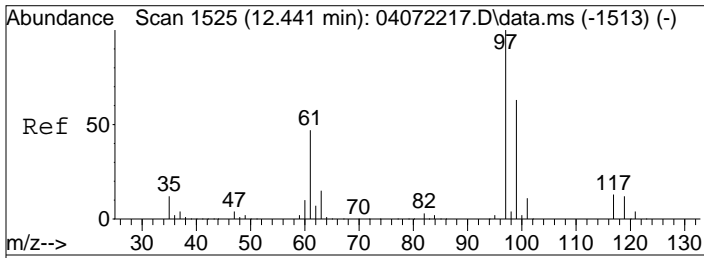
Tgt Ion	Resp	Lower	Upper
72	3083		
71	92.4	77.0	117.0
42	328.7	325.1	365.1



#36
 1,2-Dichloroethane
 Concen: 0.10 ng
 RT: 12.15 min Scan# 1473
 Delta R.T. -0.028 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

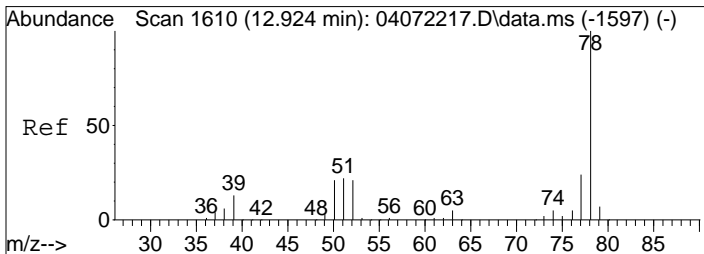
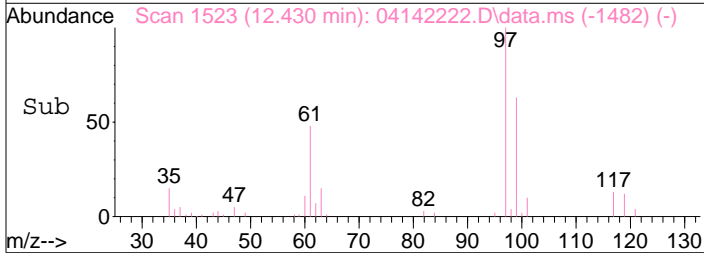
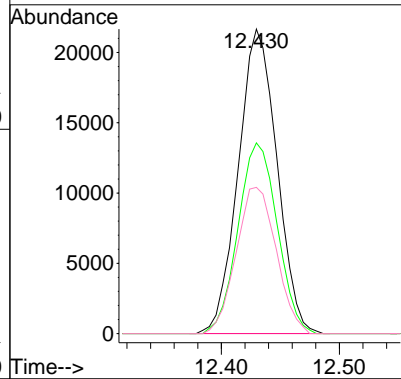
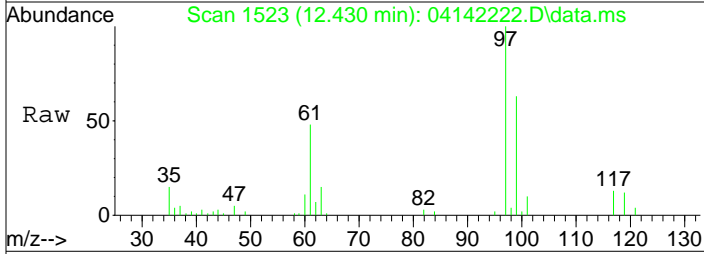
Tgt Ion	Resp	Lower	Upper
62	1867		
64	34.0	12.3	52.3





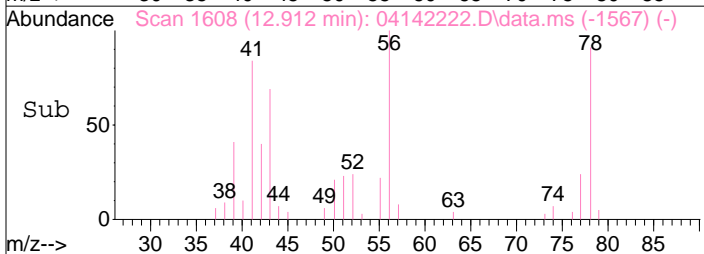
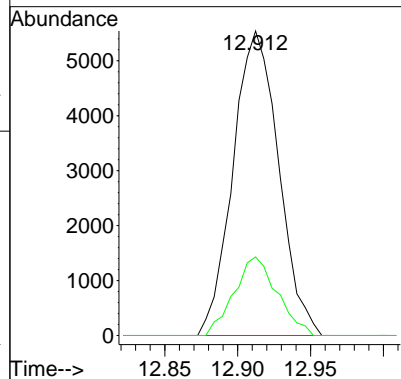
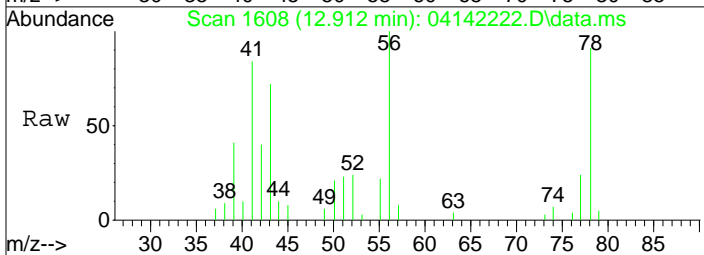
#38
 1,1,1-Trichloroethane
 Concen: 2.28 ng
 RT: 12.43 min Scan# 1523
 Delta R.T. -0.017 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

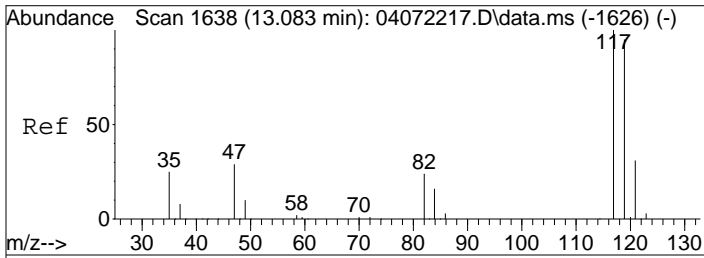
Tgt Ion	Resp	Lower	Upper
97	100		
99	63.6	43.5	83.5
61	49.7	27.7	67.7



#41
 Benzene
 Concen: 0.25 ng
 RT: 12.91 min Scan# 1608
 Delta R.T. -0.017 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

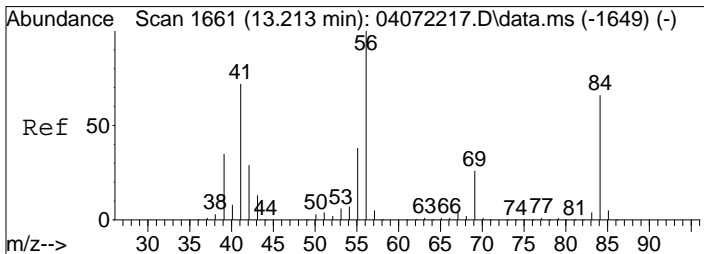
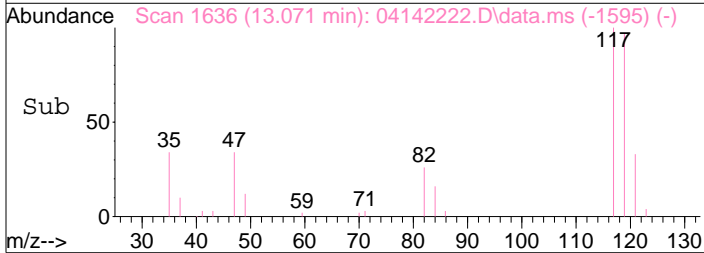
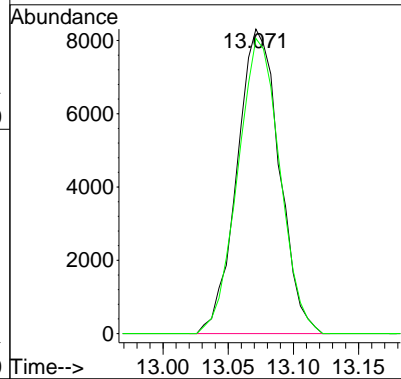
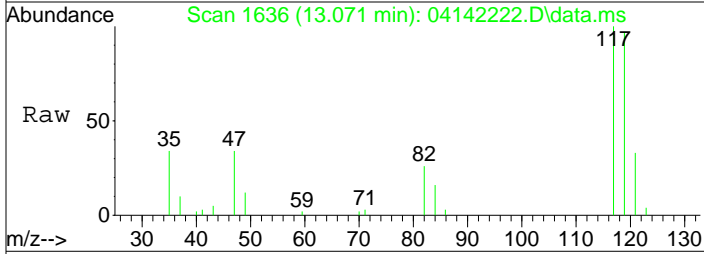
Tgt Ion	Resp	Lower	Upper
78	100		
77	24.3	3.9	43.9





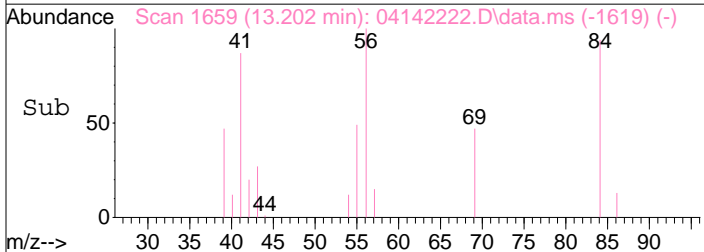
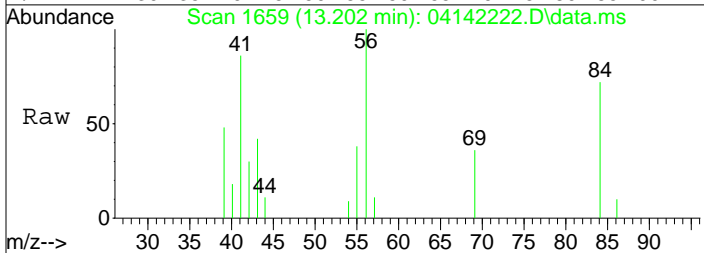
#42
 Carbon Tetrachloride
 Concen: 0.99 ng
 RT: 13.07 min Scan# 1636
 Delta R.T. -0.017 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

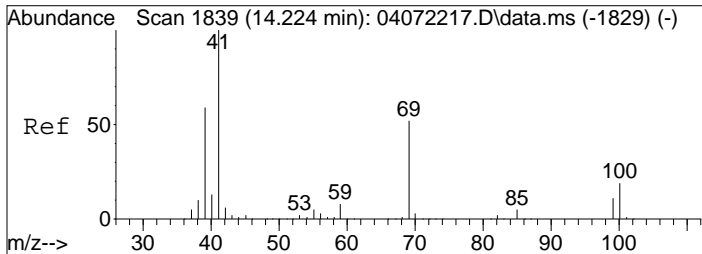
Tgt Ion: 117 Resp: 18746
 Ion Ratio Lower Upper
 117 100
 119 96.5 75.0 115.0



#43
 Cyclohexane
 Concen: 0.16 ng
 RT: 13.20 min Scan# 1659
 Delta R.T. -0.023 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

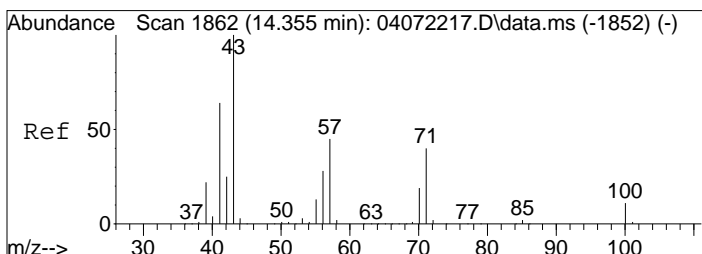
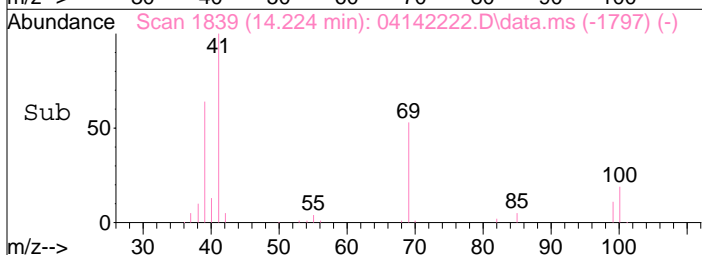
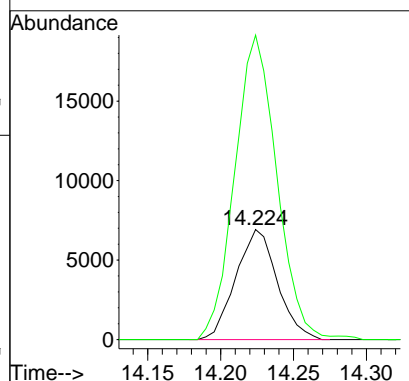
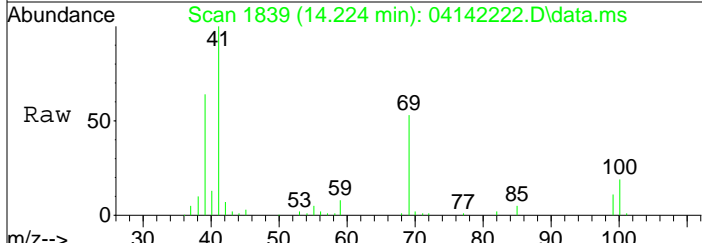
Tgt Ion: 84 Resp: 2959
 Ion Ratio Lower Upper
 84 100
 69 37.7 18.6 58.6
 56 138.4 128.4 168.4





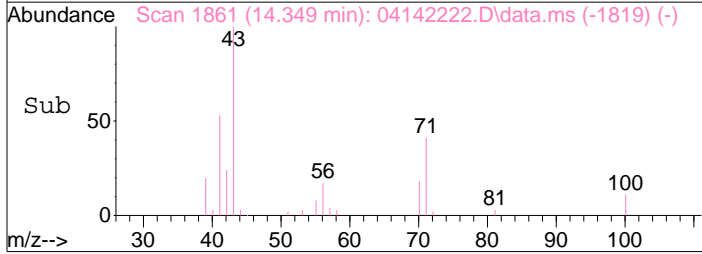
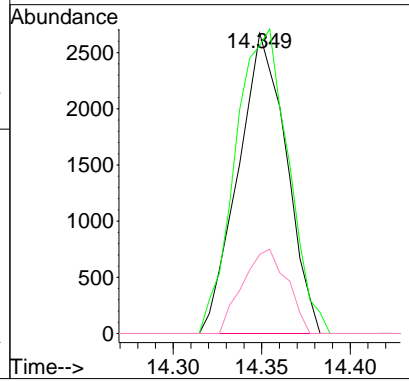
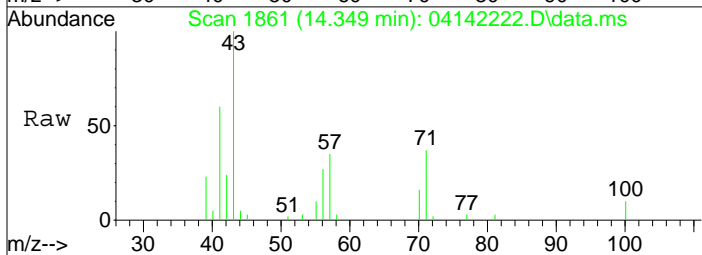
#50
 Methyl Methacrylate
 Concen: 2.79 ng
 RT: 14.22 min Scan# 1839
 Delta R.T. -0.011 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

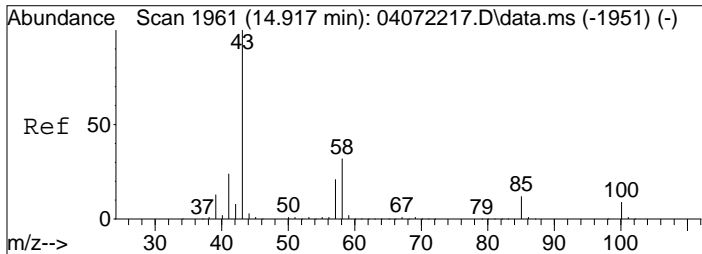
Tgt Ion	Resp	Lower	Upper
100	13696		
100	100		
69	280.7	250.2	290.2



#51
 n-Heptane
 Concen: 0.39 ng
 RT: 14.35 min Scan# 1861
 Delta R.T. -0.011 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

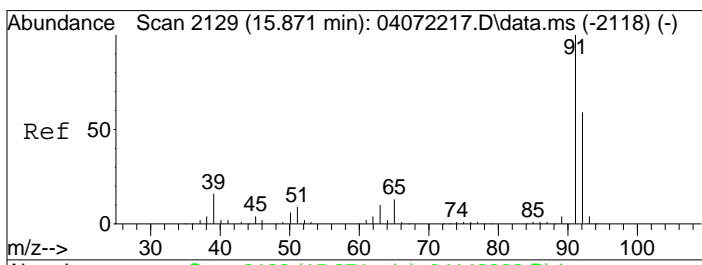
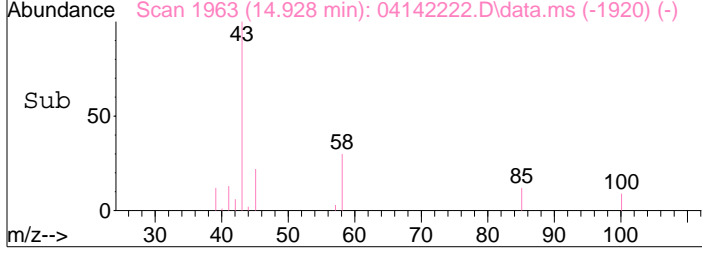
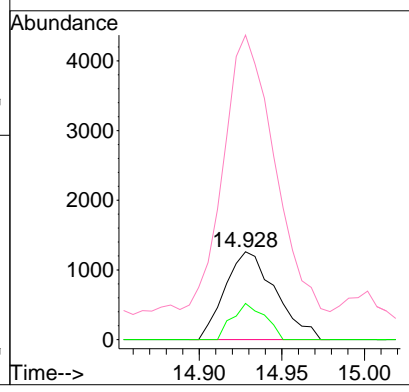
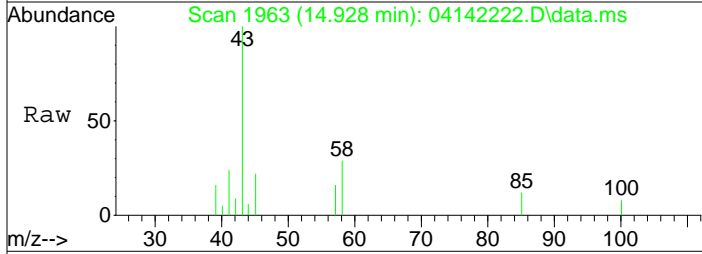
Tgt Ion	Resp	Lower	Upper
71	5038		
71	100		
57	111.6	89.9	129.9
100	26.0	7.5	47.5





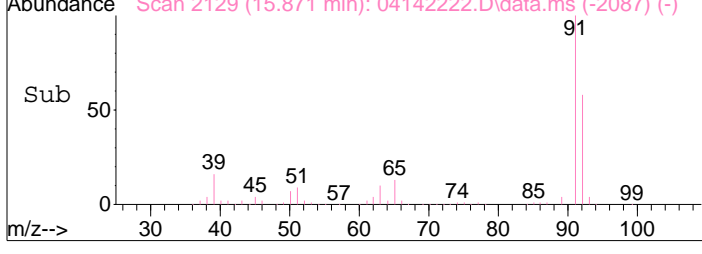
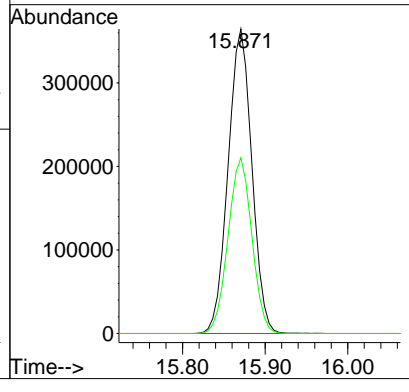
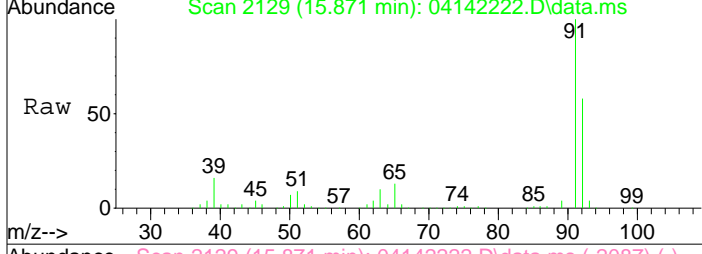
#53
 4-Methyl-2-pentanone
 Concen: 0.19 ng
 RT: 14.93 min Scan# 1963
 Delta R.T. -0.006 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

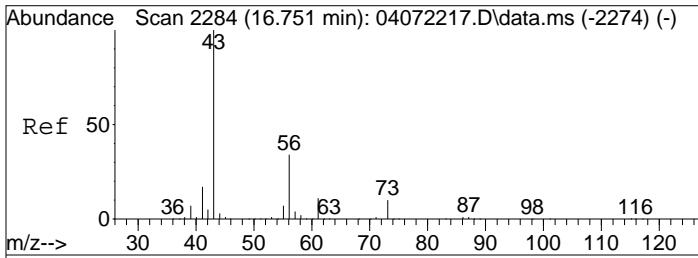
Tgt Ion:	Resp:	Lower	Upper
58	100		
85	26.7	31.0	46.4#
43	370.7	251.1	376.7



#58
 Toluene
 Concen: 13.16 ng
 RT: 15.87 min Scan# 2129
 Delta R.T. -0.011 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

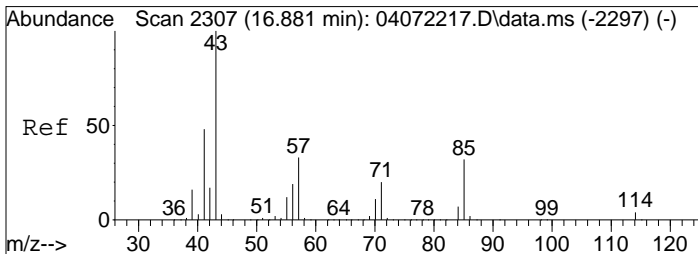
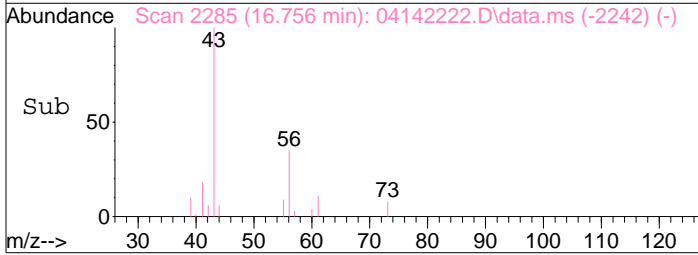
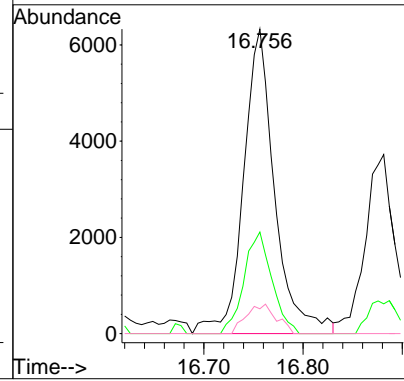
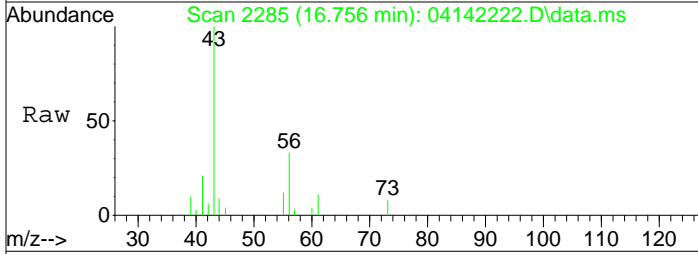
Tgt Ion:	Resp:	Lower	Upper
91	100		
92	57.8	38.3	78.3





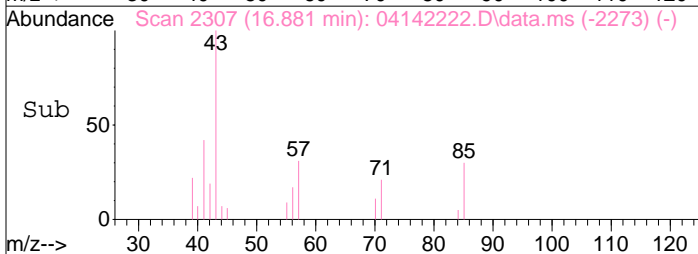
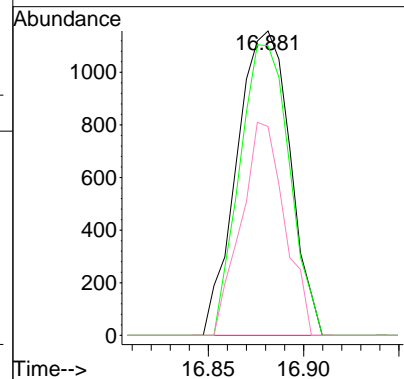
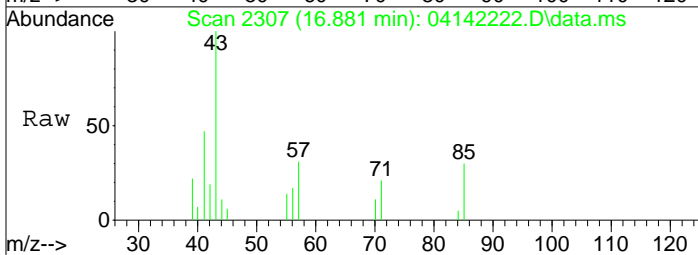
#62
 n-Butyl Acetate
 Concen: 0.30 ng
 RT: 16.76 min Scan# 2285
 Delta R.T. -0.006 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

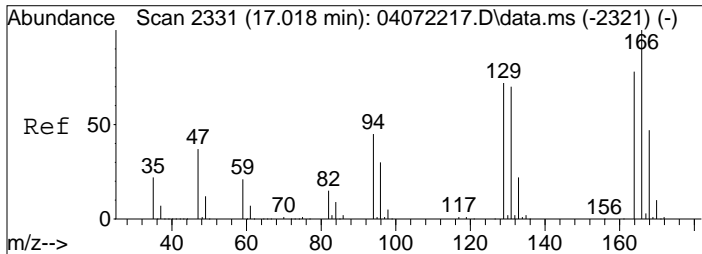
Tgt Ion:	Resp:	Lower	Upper
43	13816		
56	30.0	13.8	53.8
73	9.3	0.0	29.9



#63
 n-Octane
 Concen: 0.16 ng
 RT: 16.88 min Scan# 2307
 Delta R.T. -0.006 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

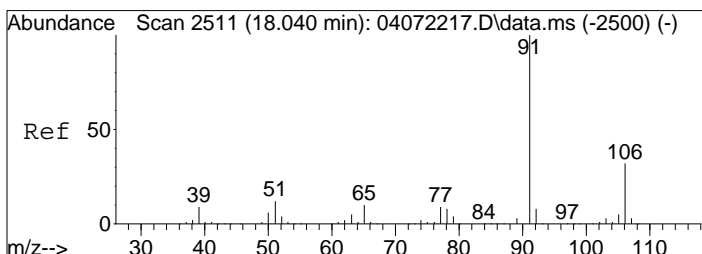
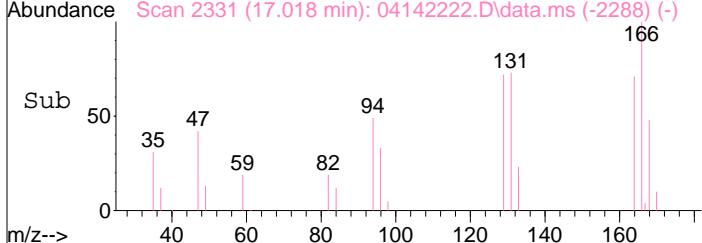
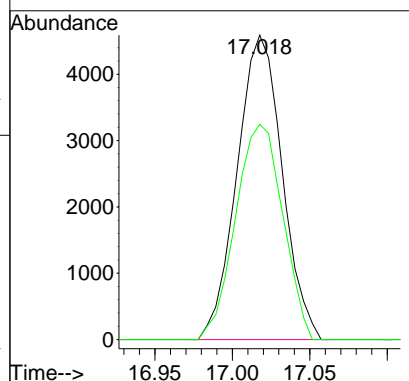
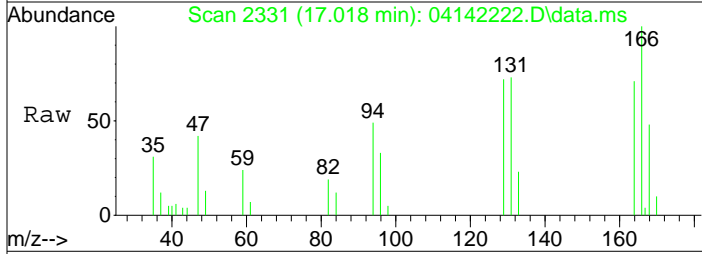
Tgt Ion:	Resp:	Lower	Upper
57	2250		
85	89.4	77.4	116.0
71	57.2	47.0	70.6





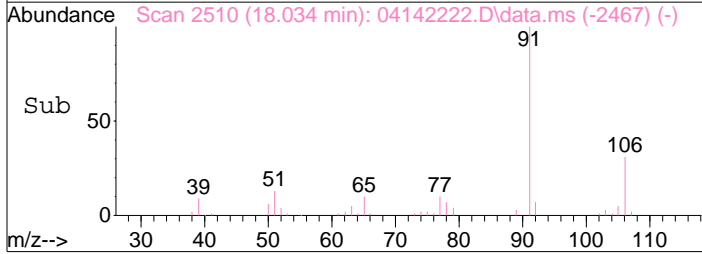
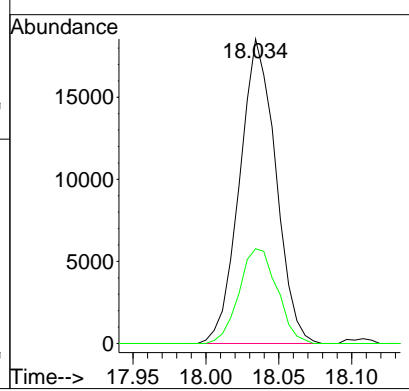
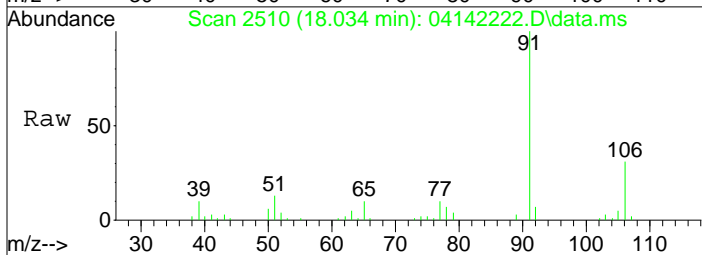
#64
 Tetrachloroethene
 Concen: 0.59 ng
 RT: 17.02 min Scan# 2331
 Delta R.T. -0.006 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

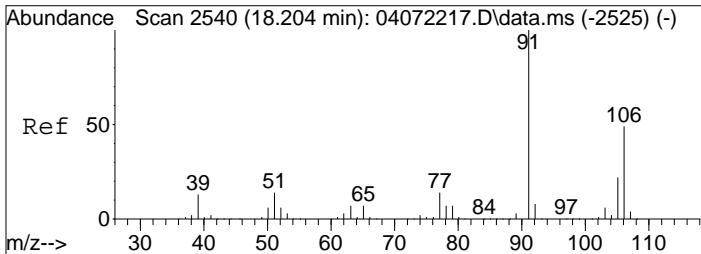
Tgt Ion	Resp	Lower	Upper
166	9316		
166	100		
164	73.9	57.8	97.8



#66
 Ethylbenzene
 Concen: 0.51 ng
 RT: 18.03 min Scan# 2510
 Delta R.T. -0.006 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

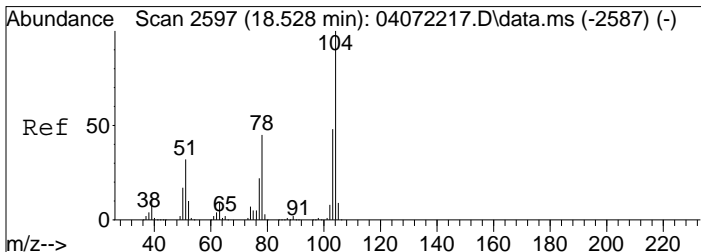
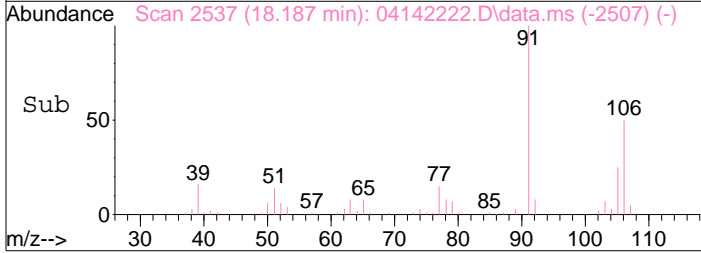
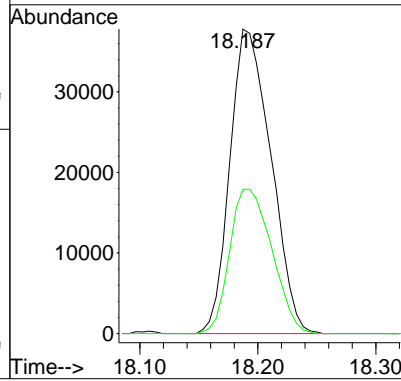
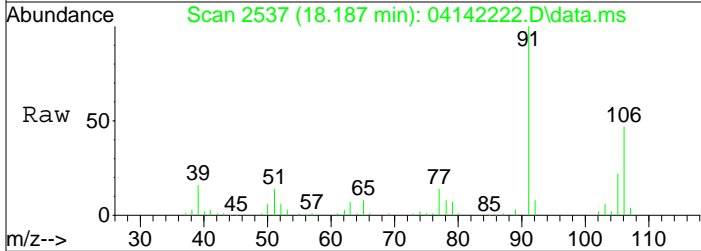
Tgt Ion	Resp	Lower	Upper
91	31948		
91	100		
106	32.7	11.6	51.6





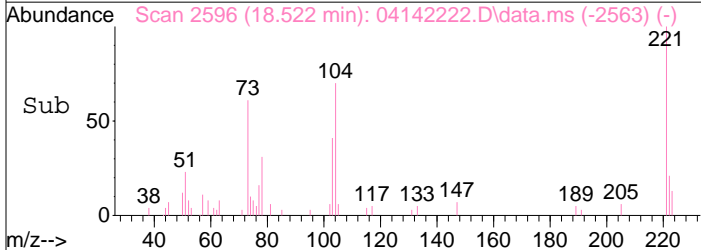
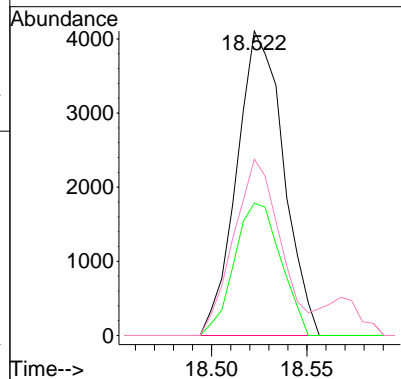
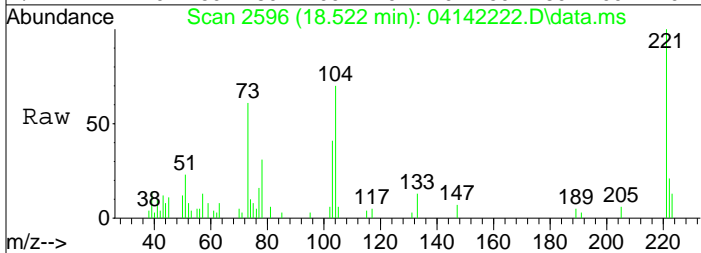
#67
 m- & p-Xylenes
 Concen: 1.80 ng
 RT: 18.19 min Scan# 2537
 Delta R.T. -0.028 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

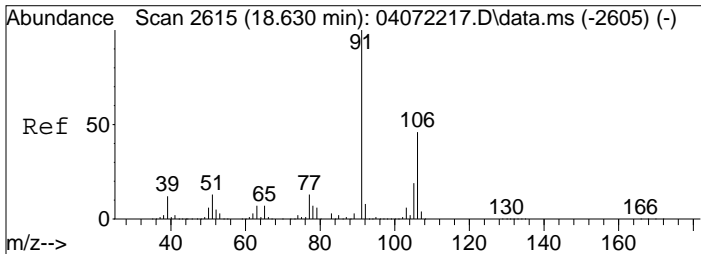
Tgt Ion:	Resp:	Lower	Upper
91	91164		
106	48.8	28.3	68.3



#69
 Styrene
 Concen: 0.19 ng
 RT: 18.52 min Scan# 2596
 Delta R.T. -0.011 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

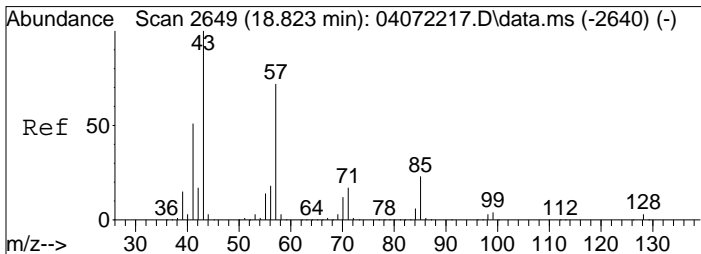
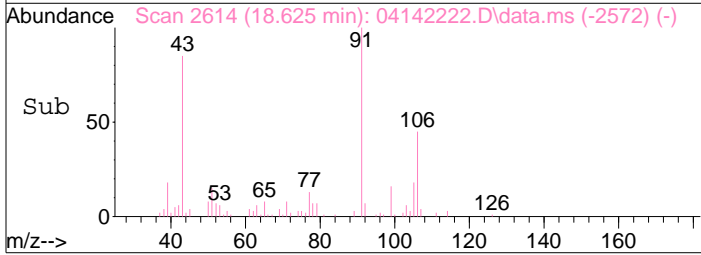
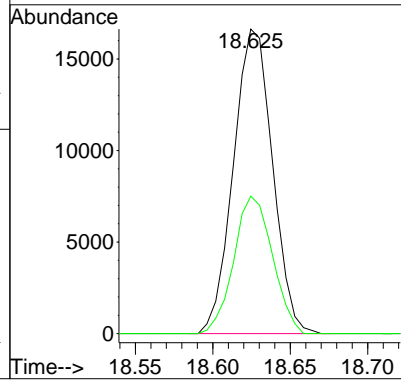
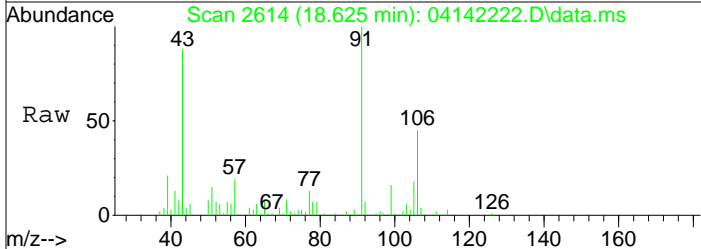
Tgt Ion:	Resp:	Lower	Upper
104	7003		
78	43.2	24.9	64.9
103	57.7	28.2	68.2





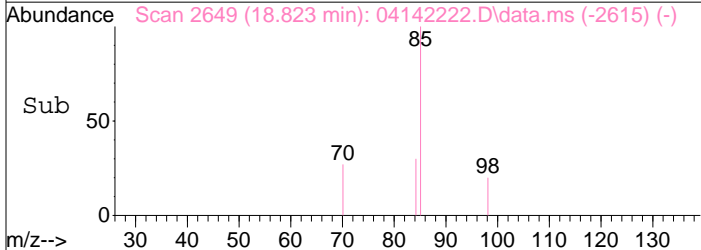
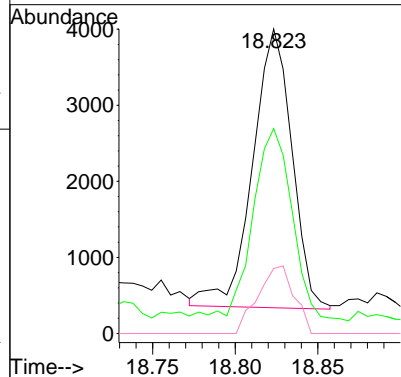
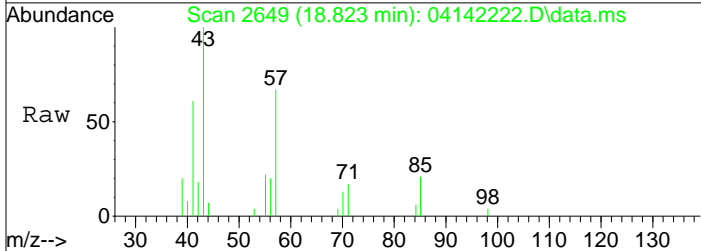
#70
 o-Xylene
 Concen: 0.57 ng
 RT: 18.62 min Scan# 2614
 Delta R.T. -0.011 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

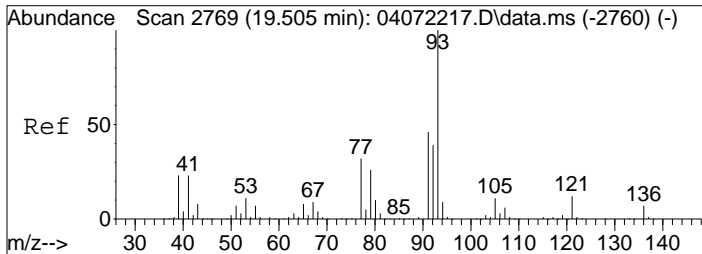
Tgt Ion	Resp	Lower	Upper
91	100		
106	44.6	26.5	66.5



#71
 n-Nonane
 Concen: 0.15 ng
 RT: 18.82 min Scan# 2649
 Delta R.T. -0.006 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

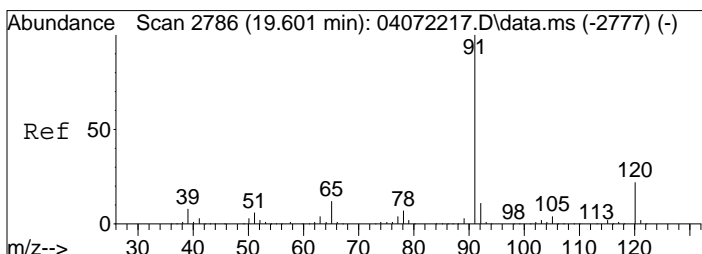
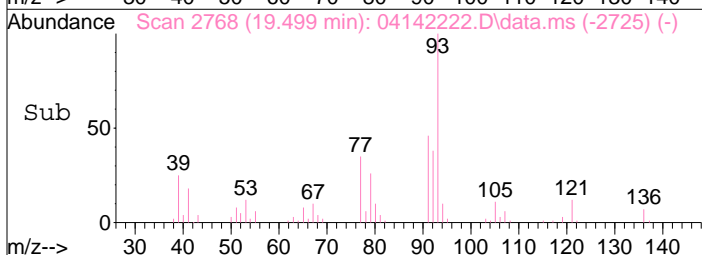
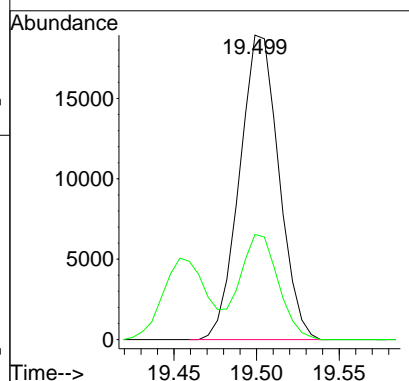
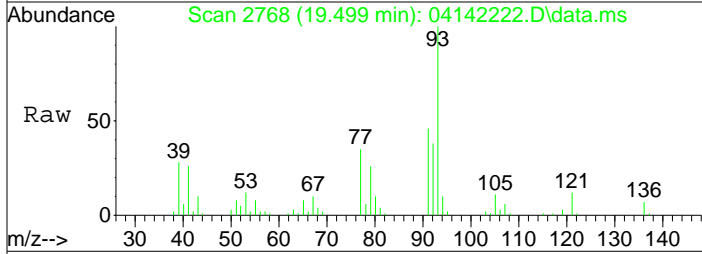
Tgt Ion	Resp	Lower	Upper
43	100		
57	72.0	52.5	92.5
85	22.2	3.6	43.6





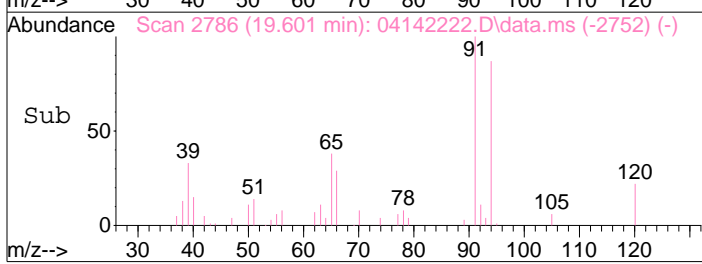
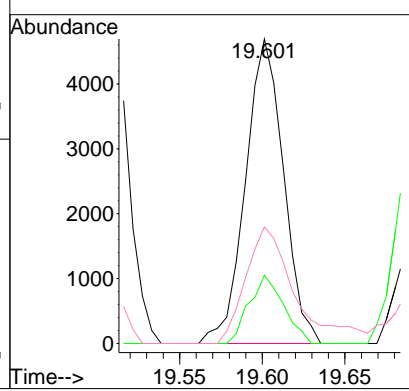
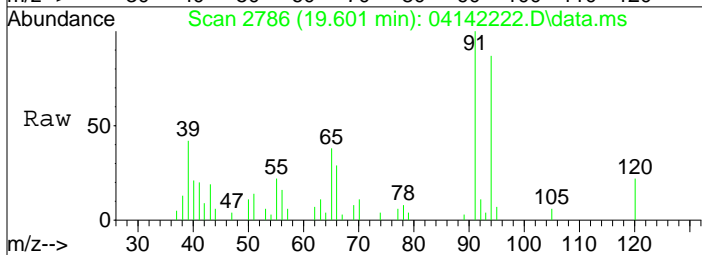
#75
 alpha-Pinene
 Concen: 1.03 ng
 RT: 19.50 min Scan# 2768
 Delta R.T. -0.006 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

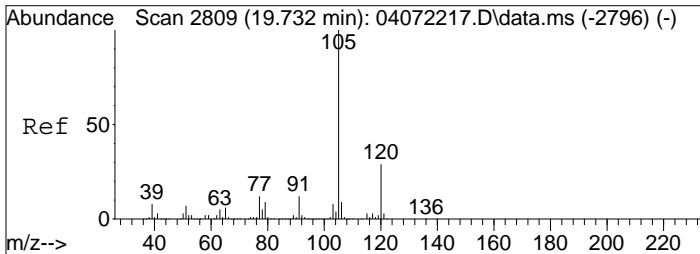
Tgt Ion	Resp	Lower	Upper
93	31388		
77	34.6	12.7	52.7



#76
 n-Propylbenzene
 Concen: 0.10 ng
 RT: 19.60 min Scan# 2786
 Delta R.T. -0.006 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

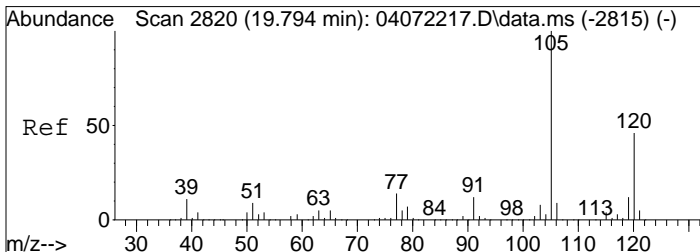
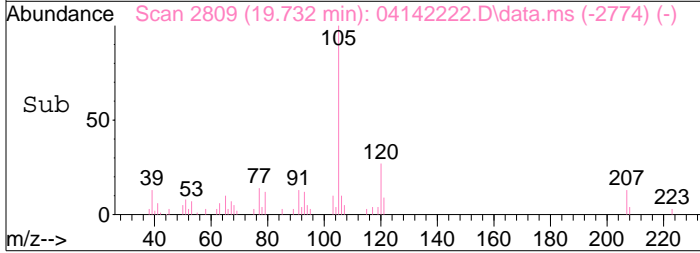
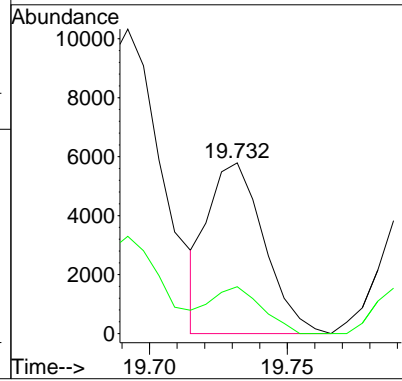
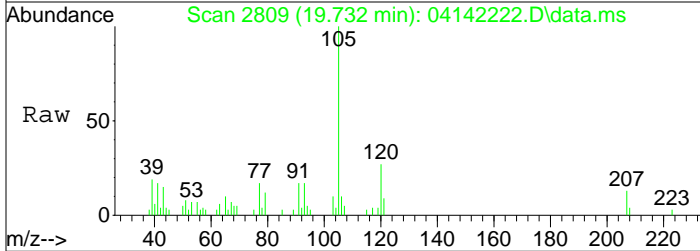
Tgt Ion	Resp	Lower	Upper
91	7527		
120	20.2	2.3	42.3
65	49.8	0.0	31.8#





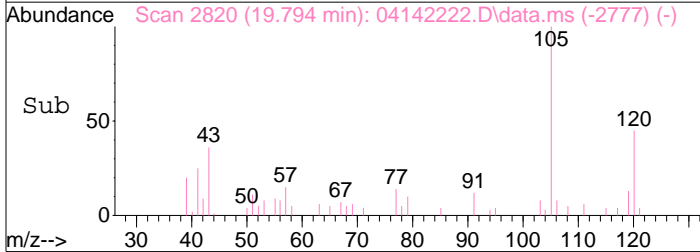
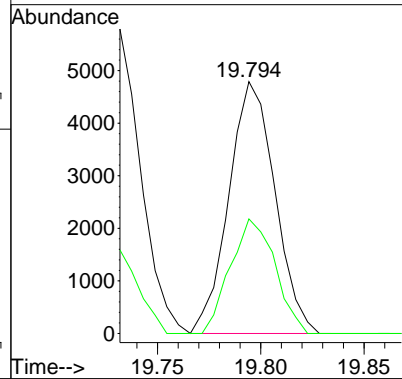
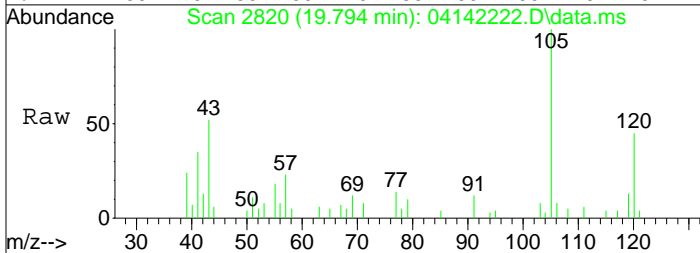
#78
 4-Ethyltoluene
 Concen: 0.13 ng
 RT: 19.73 min Scan# 2809
 Delta R.T. 0.000 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

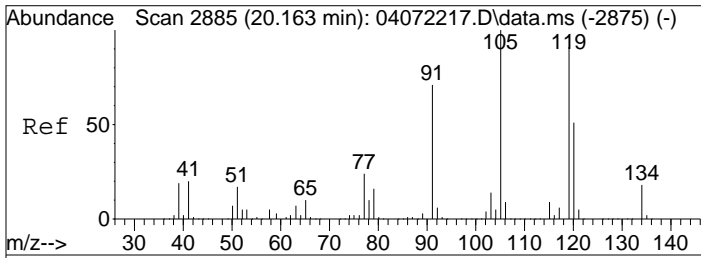
Tgt Ion	Resp	Lower	Upper
105	100		
120	25.6	9.4	49.4



#79
 1,3,5-Trimethylbenzene
 Concen: 0.14 ng
 RT: 19.79 min Scan# 2820
 Delta R.T. -0.006 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

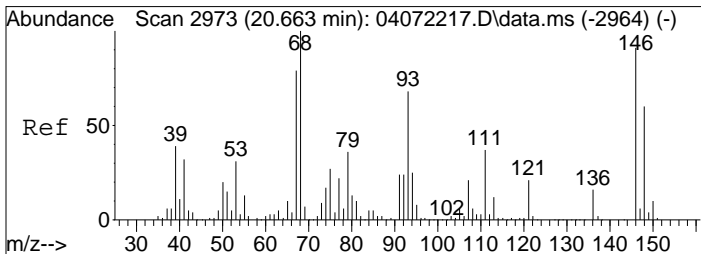
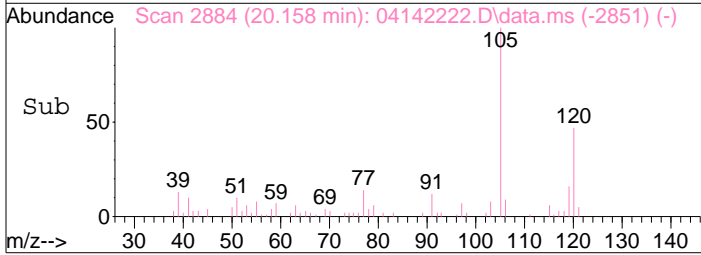
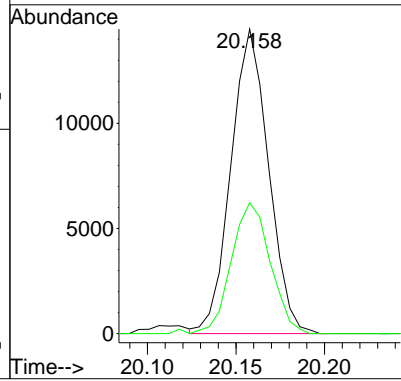
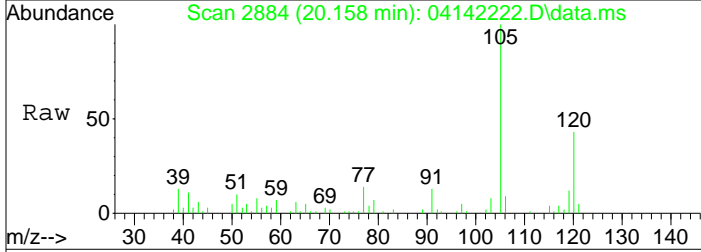
Tgt Ion	Resp	Lower	Upper
105	100		
120	44.0	27.1	67.1





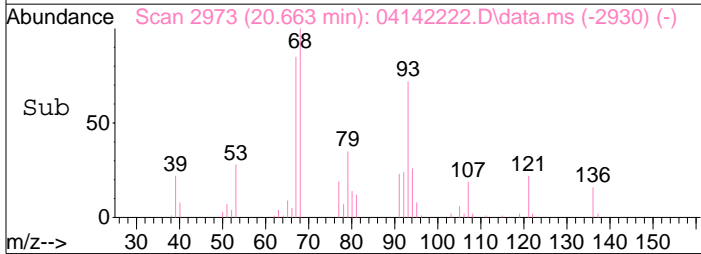
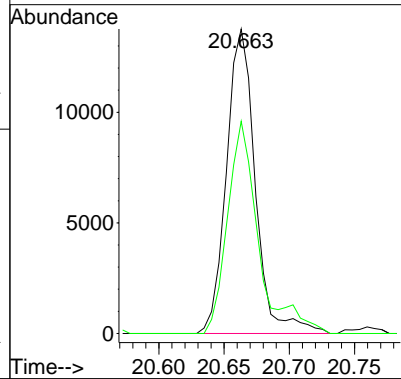
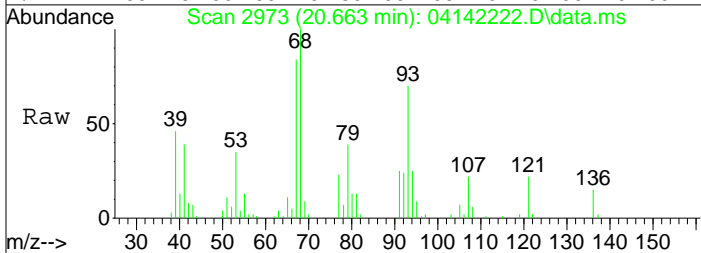
#82
 1,2,4-Trimethylbenzene
 Concen: 0.39 ng
 RT: 20.16 min Scan# 2884
 Delta R.T. -0.011 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

Tgt Ion: 105 Resp: 21402
 Ion Ratio Lower Upper
 105 100
 120 44.6 31.1 71.1



#91
 d-Limonene
 Concen: 1.04 ng
 RT: 20.66 min Scan# 2973
 Delta R.T. -0.006 min
 Lab File: 04142222.D
 Acq: 14 Apr 2022 18:19

Tgt Ion: 68 Resp: 21206
 Ion Ratio Lower Upper
 68 100
 93 74.7 48.9 88.9



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: NYS Department of Environmental Conservation

Client Sample ID: Building-2-IA-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao/Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01687

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14 - 4/15/22

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -0.03 Final Pressure (psig): 4.00

Canister Dilution Factor: 1.27

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	26	0.66	15	0.38	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.1	0.67	0.62	0.14	
74-87-3	Chloromethane	0.57	0.27	0.28	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.69	ND	0.098	
75-01-4	Vinyl Chloride	ND	0.14	ND	0.055	
106-99-0	1,3-Butadiene	ND	0.27	ND	0.12	
74-83-9	Bromomethane	ND	0.27	ND	0.069	
75-00-3	Chloroethane	ND	0.27	ND	0.10	
64-17-5	Ethanol	1,100	64	560	34	D
75-05-8	Acetonitrile	ND	1.3	ND	0.76	
107-02-8	Acrolein	1.6	1.3	0.70	0.55	
67-64-1	Acetone	57	6.6	24	2.8	
75-69-4	Trichlorofluoromethane (CFC 11)	1.9	0.66	0.33	0.12	
67-63-0	2-Propanol (Isopropyl Alcohol)	200	1.3	80	0.52	
107-13-1	Acrylonitrile	ND	1.3	ND	0.59	
75-35-4	1,1-Dichloroethene	ND	0.14	ND	0.035	
75-09-2	Methylene Chloride	1.2	0.66	0.36	0.19	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.67	ND	0.22	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.69	ND	0.090	
75-15-0	Carbon Disulfide	ND	1.4	ND	0.45	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	ND	0.035	
75-34-3	1,1-Dichloroethane	ND	0.14	ND	0.035	
1634-04-4	Methyl tert-Butyl Ether	ND	0.67	ND	0.19	
108-05-4	Vinyl Acetate	ND	6.4	ND	1.8	
78-93-3	2-Butanone (MEK)	3.5	1.3	1.2	0.43	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: NYS Department of Environmental Conservation

Client Sample ID: Building-2-IA-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao/Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01687

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14 - 4/15/22

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -0.03 Final Pressure (psig): 4.00

Canister Dilution Factor: 1.27

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.14	ND	0.035	
141-78-6	Ethyl Acetate	3.6	2.7	0.99	0.74	
110-54-3	n-Hexane	0.69	0.67	0.20	0.19	
67-66-3	Chloroform	0.59	0.14	0.12	0.029	
109-99-9	Tetrahydrofuran (THF)	ND	1.3	ND	0.43	
107-06-2	1,2-Dichloroethane	0.16	0.14	0.040	0.035	
71-55-6	1,1,1-Trichloroethane	1.1	0.14	0.20	0.026	
71-43-2	Benzene	0.60	0.14	0.19	0.044	
56-23-5	Carbon Tetrachloride	0.62	0.14	0.098	0.022	
110-82-7	Cyclohexane	ND	1.4	ND	0.41	
78-87-5	1,2-Dichloropropane	ND	0.14	ND	0.030	
75-27-4	Bromodichloromethane	ND	0.14	ND	0.021	
79-01-6	Trichloroethene	ND	0.14	ND	0.026	
123-91-1	1,4-Dioxane	ND	0.66	ND	0.18	
80-62-6	Methyl Methacrylate	12	1.4	2.8	0.34	
142-82-5	n-Heptane	0.92	0.67	0.22	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.67	ND	0.15	
108-10-1	4-Methyl-2-pentanone	ND	1.4	ND	0.34	
10061-02-6	trans-1,3-Dichloropropene	ND	0.65	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.14	ND	0.026	
108-88-3	Toluene	25	0.66	6.6	0.18	
591-78-6	2-Hexanone	ND	1.4	ND	0.34	
124-48-1	Dibromochloromethane	ND	0.14	ND	0.016	
106-93-4	1,2-Dibromoethane	ND	0.14	ND	0.018	
123-86-4	n-Butyl Acetate	ND	1.4	ND	0.29	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3 of 3

Client: NYS Department of Environmental Conservation

Client Sample ID: Building-2-IA-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao/Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01687

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14 - 4/15/22

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -0.03 Final Pressure (psig): 4.00

Canister Dilution Factor: 1.27

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.67	ND	0.14	
127-18-4	Tetrachloroethene	0.27	0.14	0.040	0.021	
108-90-7	Chlorobenzene	ND	0.66	ND	0.14	
100-41-4	Ethylbenzene	0.92	0.66	0.21	0.15	
179601-23-1	m,p-Xylenes	2.9	1.4	0.67	0.32	
75-25-2	Bromoform	ND	0.66	ND	0.064	
100-42-5	Styrene	ND	0.66	ND	0.16	
95-47-6	o-Xylene	0.94	0.66	0.22	0.15	
111-84-2	n-Nonane	ND	0.66	ND	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	ND	0.020	
98-82-8	Cumene	ND	0.66	ND	0.13	
80-56-8	alpha-Pinene	5.8	0.69	1.0	0.12	
103-65-1	n-Propylbenzene	ND	0.67	ND	0.14	
622-96-8	4-Ethyltoluene	ND	0.67	ND	0.14	
108-67-8	1,3,5-Trimethylbenzene	ND	0.66	ND	0.13	
95-63-6	1,2,4-Trimethylbenzene	1.2	0.66	0.25	0.13	
100-44-7	Benzyl Chloride	ND	1.4	ND	0.27	
541-73-1	1,3-Dichlorobenzene	ND	0.66	ND	0.11	
106-46-7	1,4-Dichlorobenzene	ND	0.66	ND	0.11	
95-50-1	1,2-Dichlorobenzene	ND	0.67	ND	0.11	
5989-27-5	d-Limonene	4.9	0.66	0.89	0.12	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.3	ND	0.13	
120-82-1	1,2,4-Trichlorobenzene	ND	1.3	ND	0.17	
91-20-3	Naphthalene	ND	0.66	ND	0.13	
87-68-3	Hexachlorobutadiene	ND	0.66	ND	0.062	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Data File : I:\MS09\DATA\2022 04\14\04142223.D
 Acq On : 14 Apr 2022 18:52
 Sample : P2201602-006 (1000mL)
 Misc : S35-04132201

Vial: 8
 Operator: SC
 Inst : MS09

Quant Time: Apr 15 01:37:48 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

LH 4/15/22

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.17	130	146438	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	13.31	114	641196	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.64	54	167931	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.03	65	287042	12.815	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	102.48%	
57) Toluene-d8 (SS2)	15.77	98	761019	12.437	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	99.52%	
73) Bromofluorobenzene (SS3)	19.03	174	234421	10.878	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	87.04%	

Target Compounds

						Qvalue
2) Propene	4.05	42	412873m	20.429	ng	
3) Dichlorodifluoromethan...	4.21	85	66742	2.413	ng	99
4) Chloromethane	4.50	50	10321	0.449	ng	97
5) 1,2-Dichloro-1,1,2,2-t...	4.76	135	1058	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.20	54	388	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.44	45	11568387	784.756	ng	99
11) Acetonitrile	6.73	41	257	N.D.		
12) Acrolein	6.79	56	11448	1.267	ng	100
13) Acetone	6.98	58	524928	45.235	ng	95
14) Trichlorofluoromethane	7.24	101	37731	1.464	ng	99
15) 2-Propanol (Isopropanol)	7.55	45	7091601	154.605	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	8.43	84	11746	0.972	ng	95
20) 3-Chloro-1-propene (Al...	8.59	41	241	N.D.		
21) Trichlorotrifluoroethane	8.86	151	5113	0.464	ng	99
22) Carbon Disulfide	8.70	76	3227	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	10.01	63	284	N.D.		
25) Methyl tert-Butyl Ether	10.13	73	141	N.D.		
26) Vinyl Acetate	10.21	86	3117	1.494	ng	98
27) 2-Butanone (MEK)	10.48	72	22142	2.731	ng	94
28) cis-1,2-Dichloroethene	11.07	61	495	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	11.31	61	16268	2.810	ng	99
31) n-Hexane	11.28	57	14146	0.542	ng	98
32) Chloroform	11.34	83	10479	0.463	ng	99
34) Tetrahydrofuran (THF)	11.77	72	6530	0.839	ng	# 89
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	12.15	62	2558	0.128	ng	94
38) 1,1,1-Trichloroethane	12.43	97	18521	0.844	ng	98
39) Isopropyl Acetate	13.31	61	22919	No Calib		
40) 1-Butanol	12.89	56	101196	No Calib	#	
41) Benzene	12.91	78	23600	0.475	ng	99
42) Carbon Tetrachloride	13.08	117	9305	0.487	ng	98
43) Cyclohexane	13.21	84	3552	0.187	ng	94
44) tert-Amyl Methyl Ether	13.66	73	449	N.D.		
45) 1,2-Dichloropropane	13.76	63	261	N.D.		
46) Bromodichloromethane	13.95	83	980	N.D.		
47) Trichloroethene	14.01	130	589	N.D.		
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	14.22	100	45157	9.078	ng	97

Data File : I:\MS09\DATA\2022 04\14\04142223.D
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

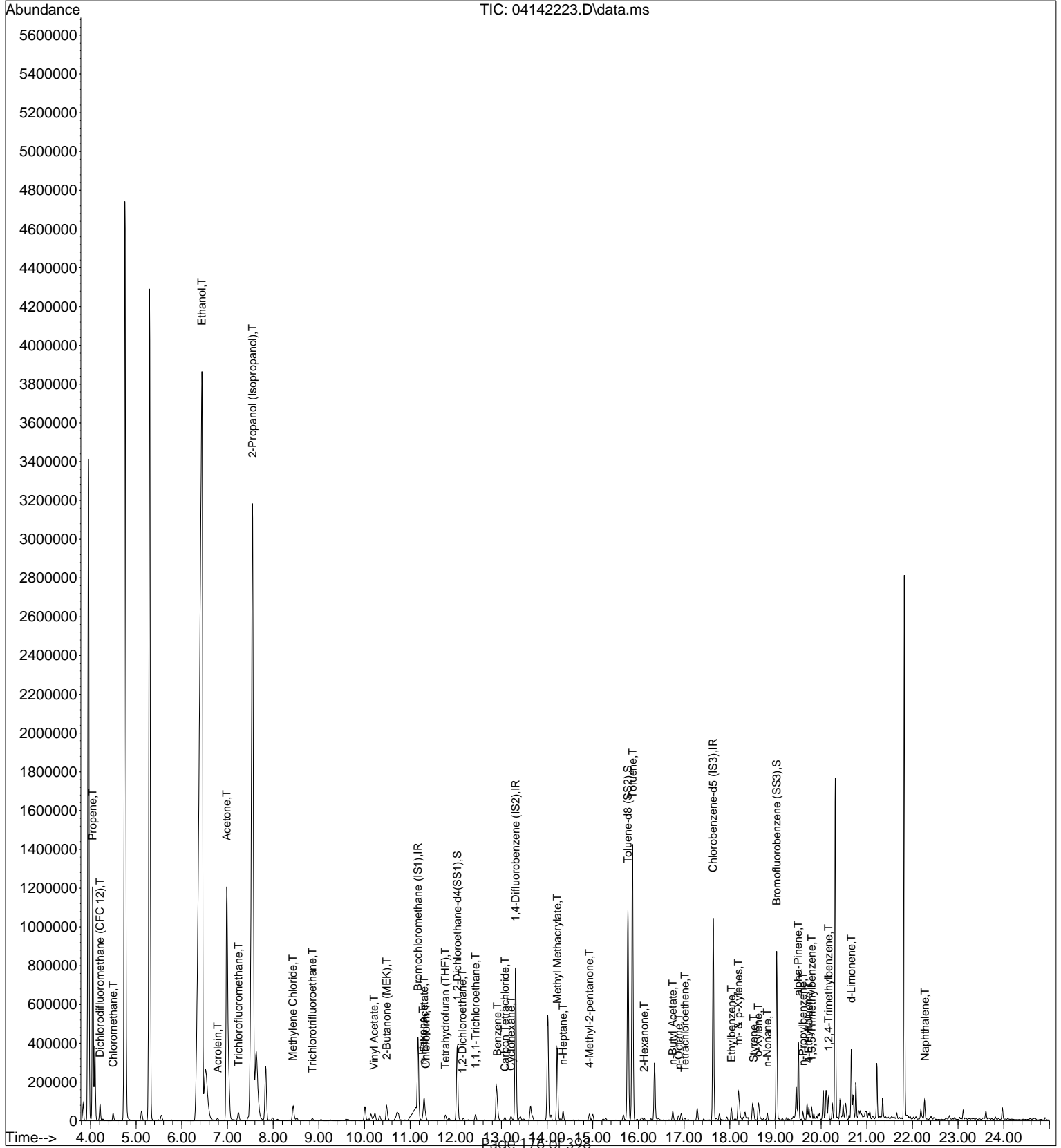
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.35	71	9367	0.723	ng	95
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	14.92	58	9233	0.657	ng	86
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.87	91	1097482	19.505	ng	99
59) 2-Hexanone	16.13	43	8745	0.202	ng	79
60) Dibromochloromethane	16.28	129	474	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.75	43	43609	0.923	ng	100
63) n-Octane	16.88	57	5023	0.356	ng	95
64) Tetrachloroethene	17.02	166	3450	0.215	ng	97
65) Chlorobenzene	17.68	112	161	N.D.		
66) Ethylbenzene	18.03	91	46363	0.724	ng	97
67) m- & p-Xylenes	18.19	91	117557	2.284	ng	99
68) Bromoform	18.26	173	127	N.D.		
69) Styrene	18.52	104	16372	0.446	ng	94
70) o-Xylene	18.62	91	38368	0.739	ng	99
71) n-Nonane	18.82	43	15005	0.377	ng	95
72) 1,1,2,2-Tetrachloroethane	18.67	83	788	N.D.		
74) Cumene	19.15	105	4091	N.D.		
75) alpha-Pinene	19.50	93	142747	4.599	ng	100
76) n-Propylbenzene	19.60	91	17439	0.222	ng	85
77) 3-Ethyltoluene	19.73	105	20858	No Calib		
78) 4-Ethyltoluene	19.73	105	20858	0.329	ng	99
79) 1,3,5-Trimethylbenzene	19.79	105	19780	0.367	ng	99
80) alpha-Methylstyrene	19.69	118	213	No Calib	#	
81) 2-Ethyltoluene	20.66	105	4950	No Calib		
82) 1,2,4-Trimethylbenzene	20.16	105	53128	0.957	ng	91
83) n-Decane	20.54	58	1459	No Calib	#	
84) Benzyl Chloride	20.31	91	1405	N.D.		
85) 1,3-Dichlorobenzene	20.35	146	2379	N.D.		
86) 1,4-Dichlorobenzene	20.35	146	2379	N.D.		
87) sec-Butylbenzene	20.40	105	1946	N.D.		
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D. d		
89) 1,2,3-Trimethylbenzene	20.40	105	1946	No Calib	#	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	20.66	68	80284	3.887	ng	92
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	21.34	58	1373	No Calib	#	
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	22.28	128	21106	0.302	ng	99
96) n-Dodecane	22.26	58	1081	No Calib	#	
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	18.63	55	3349	No Calib	#	
99) tert-Butylbenzene	20.12	119	1944	N.D.		
100) n-Butylbenzene	20.90	91	5039	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\2022 04\14\04142223.D
 Acq On : 14 Apr 2022 18:52
 Sample : P2201602-006 (1000mL)
 Misc : S35-04132201

Vial: 8
 Operator: SC
 Inst : MS09

Quant Time: Apr 15 01:37:48 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2022 04\14\04142223.D
 Acq On : 14 Apr 2022 18:52
 Sample : P2201602-006 (1000mL)
 Misc : S35-04132201

Vial: 8
 Operator: SC
 Inst : MS09

LH 4/15/22

Quant Time: Apr 15 01:37:48 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	11.17	130	146438	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	13.31	114	641196	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.64	54	167931	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.03	65	287042	12.815	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	102.48%	
57) Toluene-d8 (SS2)	15.77	98	761019	12.437	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	99.52%	
73) Bromofluorobenzene (SS3)	19.03	174	234421	10.878	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	87.04%	

Target Compounds

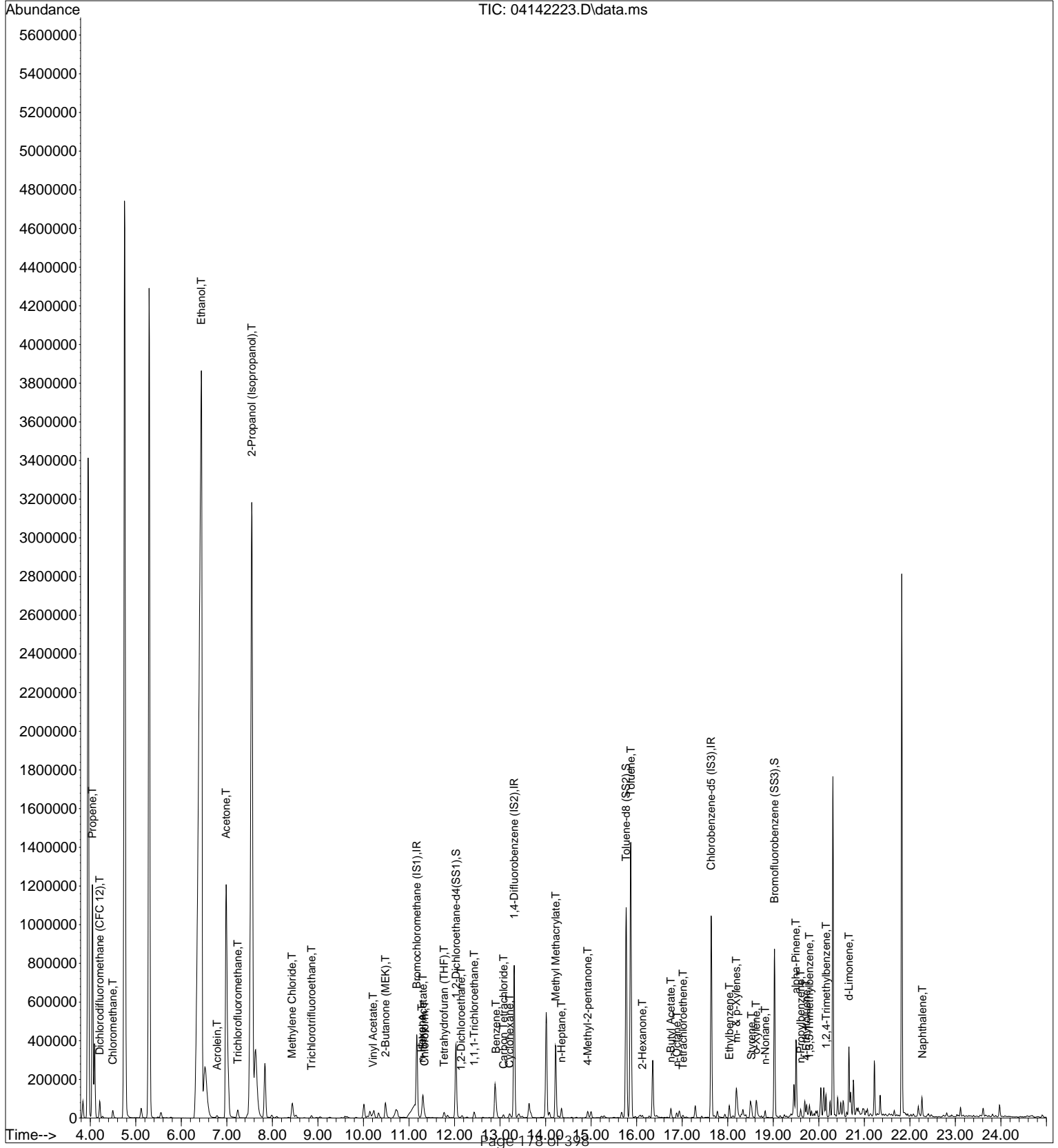
	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.05	42	412873m	20.429	ng	
3) Dichlorodifluoromethan...	4.21	85	66742	2.413	ng	99
4) Chloromethane	4.50	50	10321	0.449	ng	97
10) Ethanol	6.44	45	11568387	784.756	ng	99
12) Acrolein	6.79	56	11448	1.267	ng	100
13) Acetone	6.98	58	524928	45.235	ng	95
14) Trichlorofluoromethane	7.24	101	37731	1.464	ng	99
15) 2-Propanol (Isopropanol)	7.55	45	7091601	154.605	ng	99
19) Methylene Chloride	8.43	84	11746	0.972	ng	95
21) Trichlorotrifluoroethane	8.86	151	5113	0.464	ng	99
26) Vinyl Acetate	10.21	86	3117	1.494	ng	98
27) 2-Butanone (MEK)	10.48	72	22142	2.731	ng	94
30) Ethyl Acetate	11.31	61	16268	2.810	ng	99
31) n-Hexane	11.28	57	14146	0.542	ng	98
32) Chloroform	11.34	83	10479	0.463	ng	99
34) Tetrahydrofuran (THF)	11.77	72	6530	0.839	ng	# 89
36) 1,2-Dichloroethane	12.15	62	2558	0.128	ng	94
38) 1,1,1-Trichloroethane	12.43	97	18521	0.844	ng	98
41) Benzene	12.91	78	23600	0.475	ng	99
42) Carbon Tetrachloride	13.08	117	9305	0.487	ng	98
43) Cyclohexane	13.21	84	3552	0.187	ng	94
50) Methyl Methacrylate	14.22	100	45157	9.078	ng	97
51) n-Heptane	14.35	71	9367	0.723	ng	95
53) 4-Methyl-2-pentanone	14.92	58	9233	0.657	ng	86
58) Toluene	15.87	91	1097482	19.505	ng	99
59) 2-Hexanone	16.13	43	8745	0.202	ng	79
62) n-Butyl Acetate	16.75	43	43609	0.923	ng	100
63) n-Octane	16.88	57	5023	0.356	ng	95
64) Tetrachloroethene	17.02	166	3450	0.215	ng	97
66) Ethylbenzene	18.03	91	46363	0.724	ng	97
67) m- & p-Xylenes	18.19	91	117557	2.284	ng	99
69) Styrene	18.52	104	16372	0.446	ng	94
70) o-Xylene	18.62	91	38368	0.739	ng	99
71) n-Nonane	18.82	43	15005	0.377	ng	95
75) alpha-Pinene	19.50	93	142747	4.599	ng	100
76) n-Propylbenzene	19.60	91	17439	0.222	ng	85
78) 4-Ethyltoluene	19.73	105	20858	0.329	ng	99
79) 1,3,5-Trimethylbenzene	19.79	105	19780	0.367	ng	99
82) 1,2,4-Trimethylbenzene	20.16	105	53128	0.957	ng	91
91) d-Limonene	20.66	68	80284	3.887	ng	92
95) Naphthalene	22.28	128	21106	0.302	ng	99

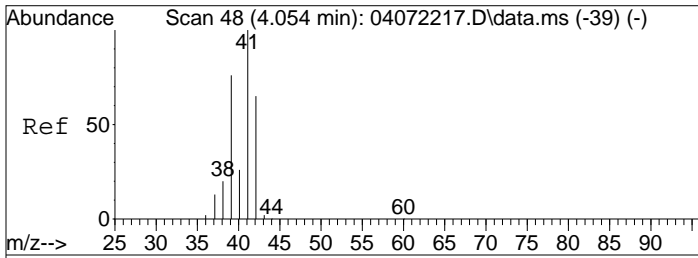
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS09\DATA\2022 04\14\04142223.D
 Acq On : 14 Apr 2022 18:52
 Sample : P2201602-006 (1000mL)
 Misc : S35-04132201

Vial: 8
 Operator: SC
 Inst : MS09

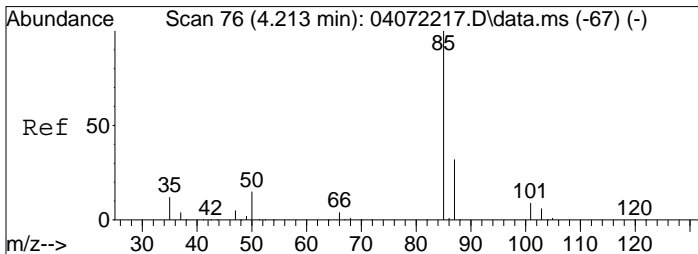
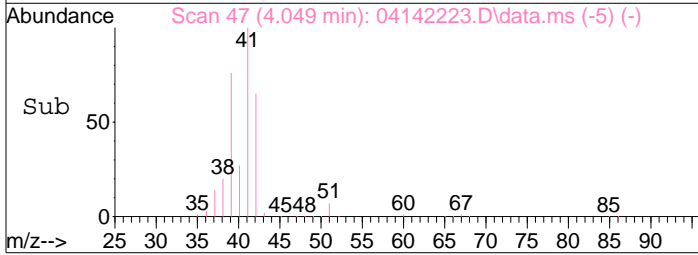
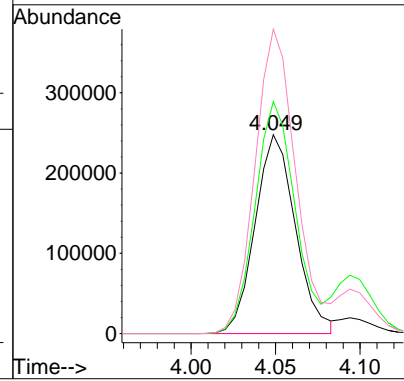
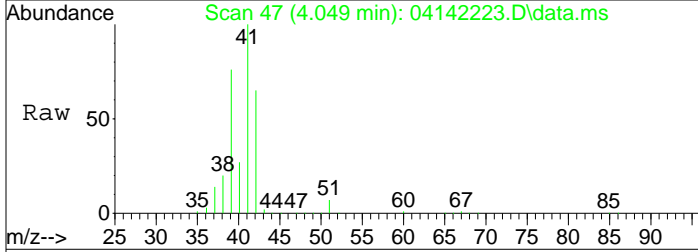
Quant Time: Apr 15 01:37:48 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M





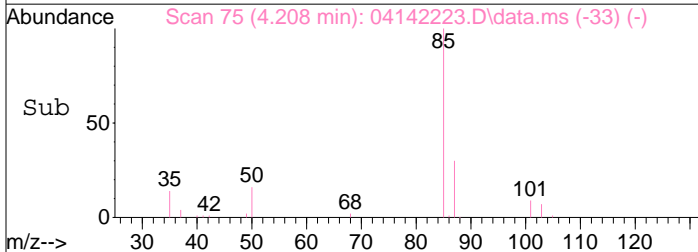
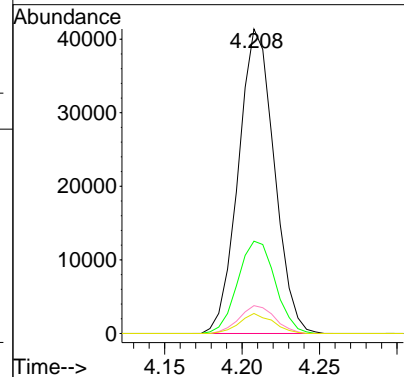
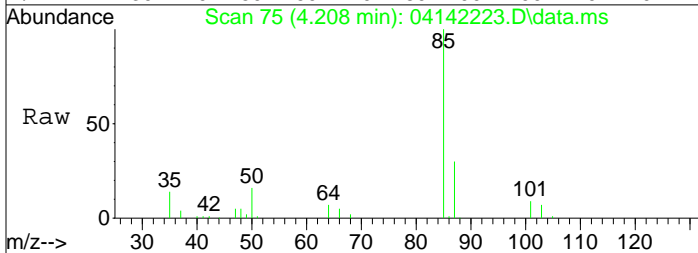
#2
 Propene
 Concen: 20.43 ng m
 RT: 4.05 min Scan# 47
 Delta R.T. -0.011 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

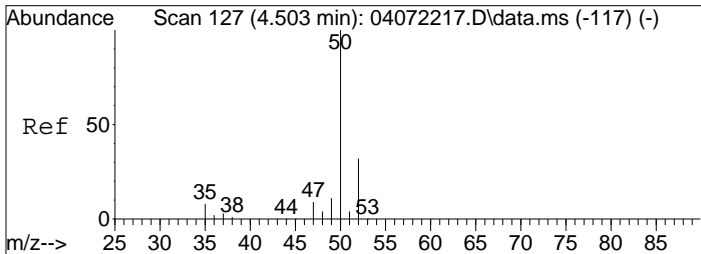
Tgt Ion:	Resp:	Lower	Upper
42	100		
39	116.4	96.7	136.7
41	155.1	132.4	172.4



#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 2.41 ng
 RT: 4.21 min Scan# 75
 Delta R.T. -0.011 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

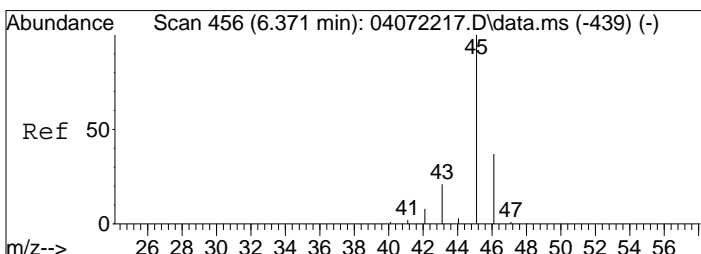
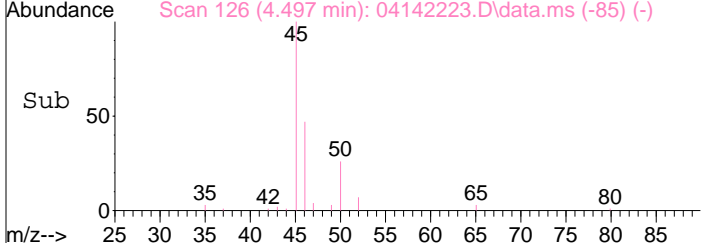
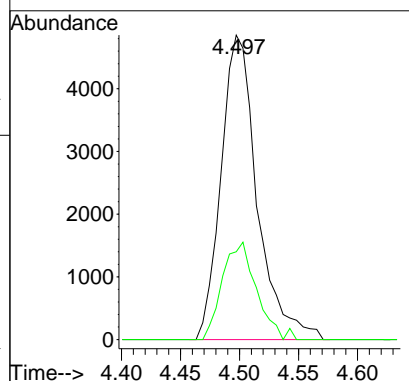
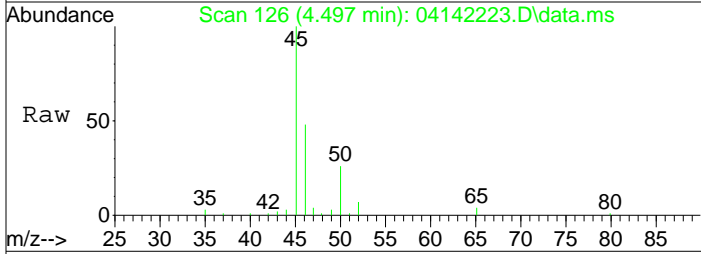
Tgt Ion:	Resp:	Lower	Upper
85	100		
87	31.7	12.2	52.2
101	9.1	0.0	29.3
103	6.1	0.0	26.0





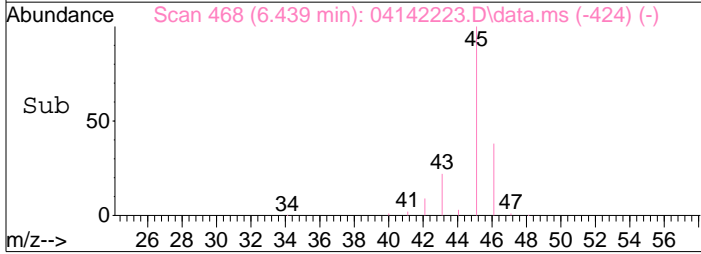
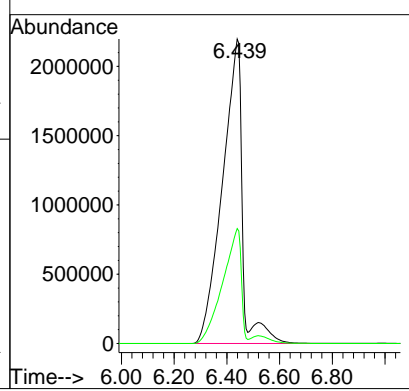
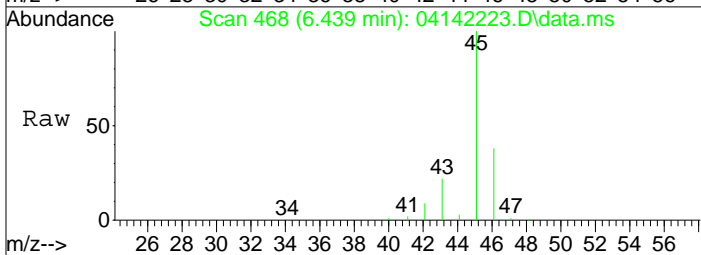
#4
 Chloromethane
 Concen: 0.45 ng
 RT: 4.50 min Scan# 126
 Delta R.T. -0.017 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

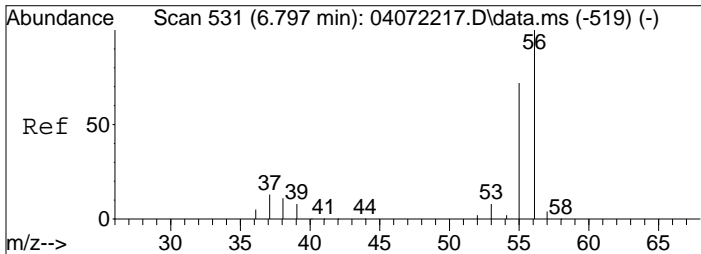
Tgt Ion	Resp	Lower	Upper
50	10321		
52	30.3	11.8	51.8



#10
 Ethanol
 Concen: 784.76 ng
 RT: 6.44 min Scan# 468
 Delta R.T. 0.000 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

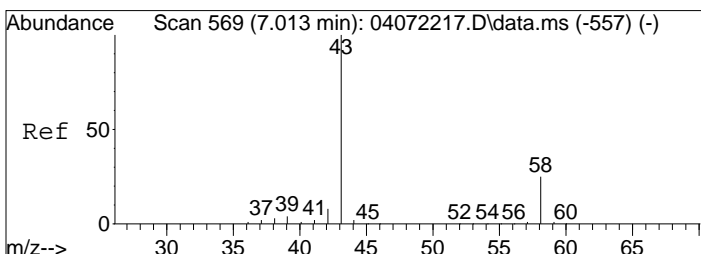
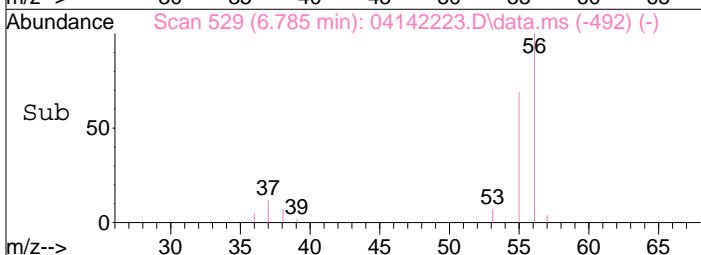
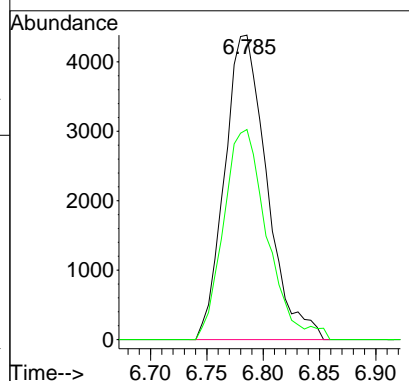
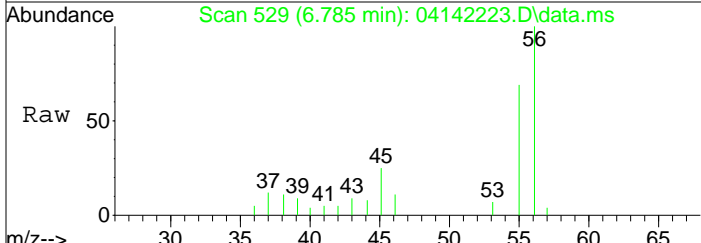
Tgt Ion	Resp	Lower	Upper
45	11568387		
46	37.3	16.7	56.7





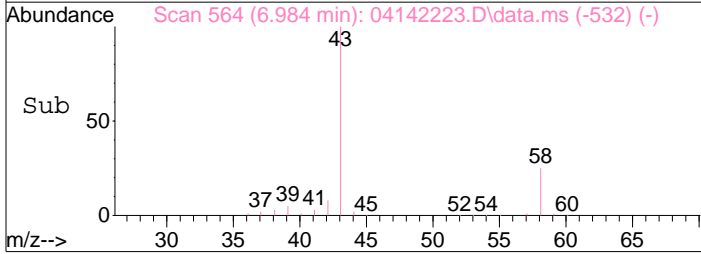
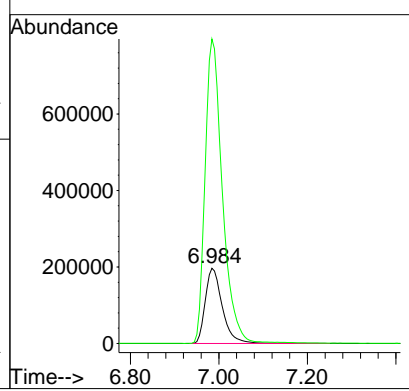
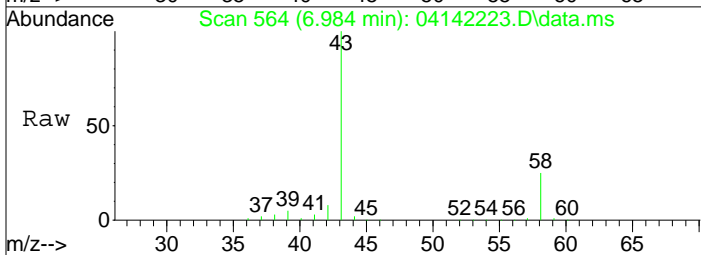
#12
 Acrolein
 Concen: 1.27 ng
 RT: 6.79 min Scan# 529
 Delta R.T. -0.040 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

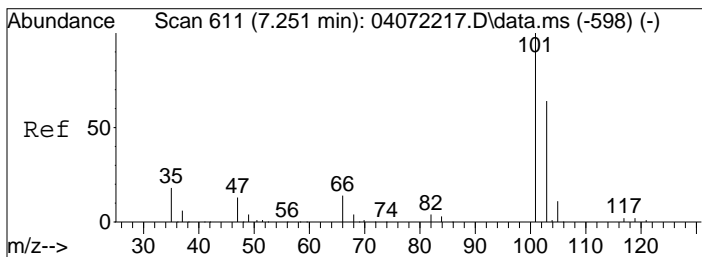
Tgt Ion	Resp	Lower	Upper
56	100		
55	71.0	51.3	91.3



#13
 Acetone
 Concen: 45.24 ng
 RT: 6.98 min Scan# 564
 Delta R.T. -0.068 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

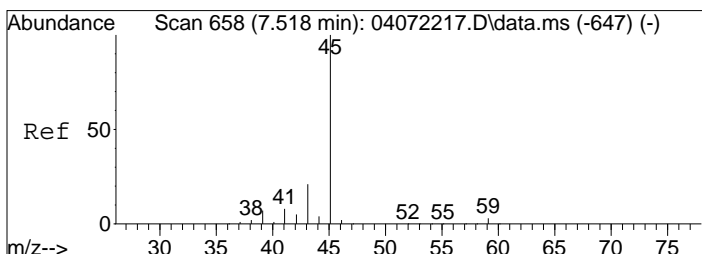
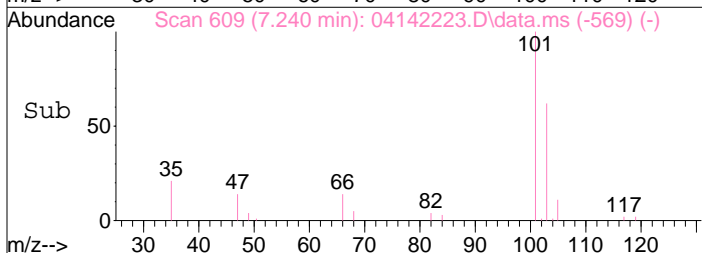
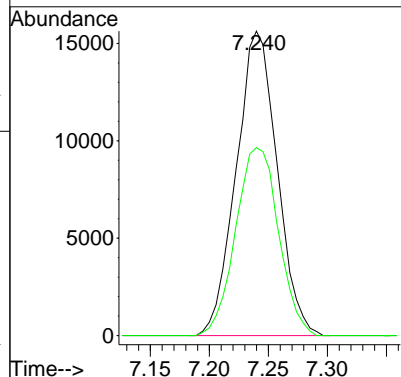
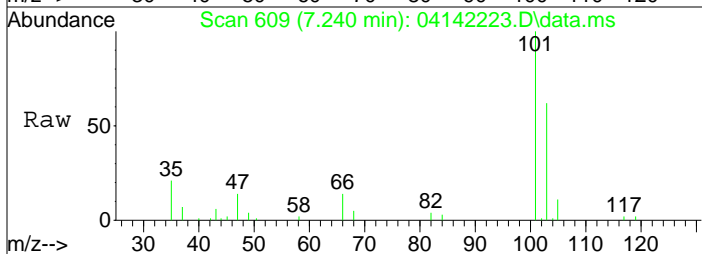
Tgt Ion	Resp	Lower	Upper
58	100		
43	412.4	370.7	430.7





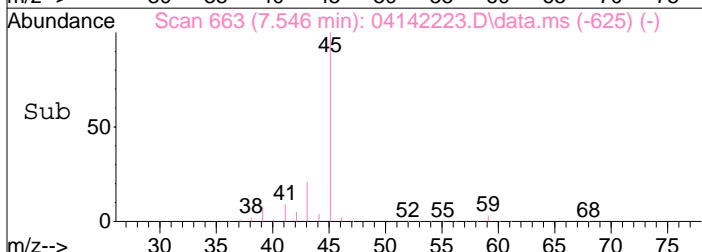
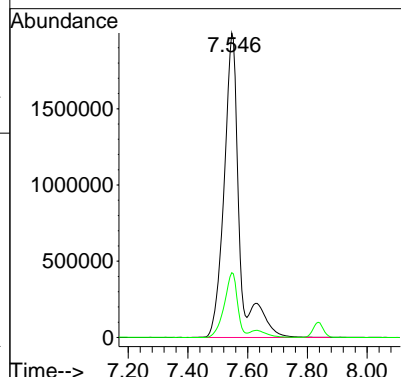
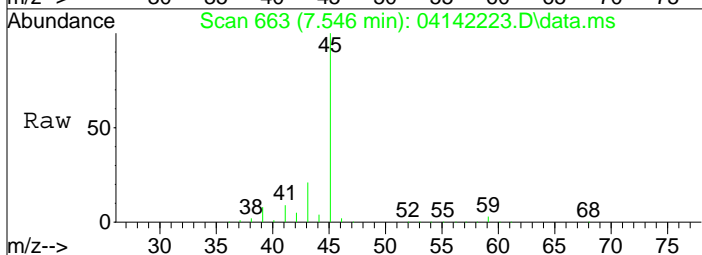
#14
 Trichlorofluoromethane
 Concen: 1.46 ng
 RT: 7.24 min Scan# 609
 Delta R.T. -0.023 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

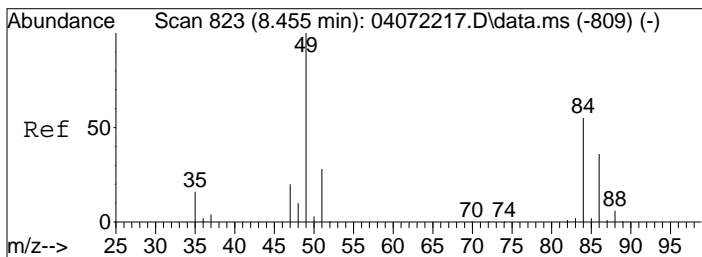
Tgt Ion	Resp	Lower	Upper
101	37731		
103	64.6	43.8	83.8



#15
 2-Propanol (Isopropanol)
 Concen: 154.61 ng
 RT: 7.55 min Scan# 663
 Delta R.T. -0.034 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

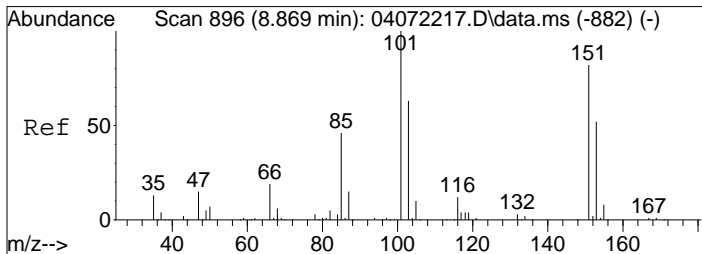
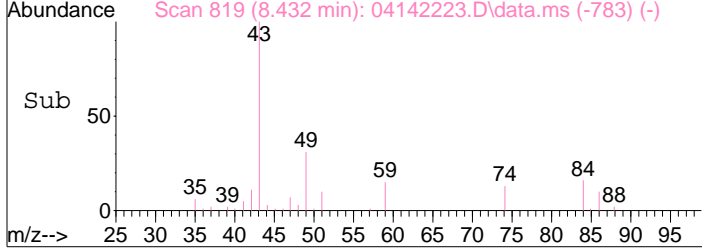
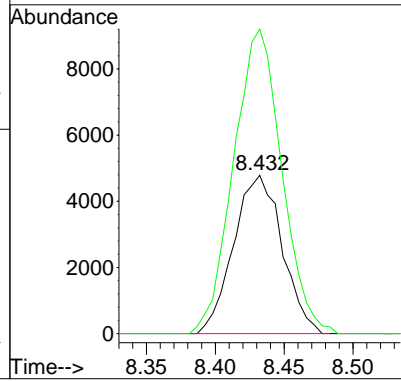
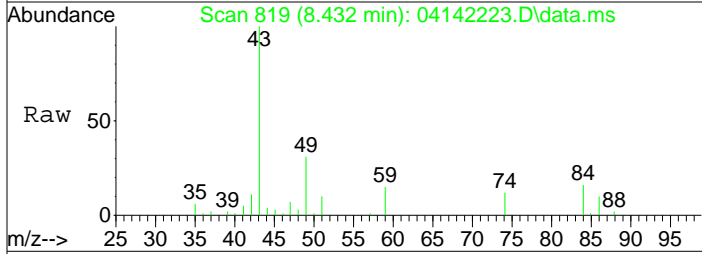
Tgt Ion	Resp	Lower	Upper
45	7091601		
43	21.0	0.6	40.6





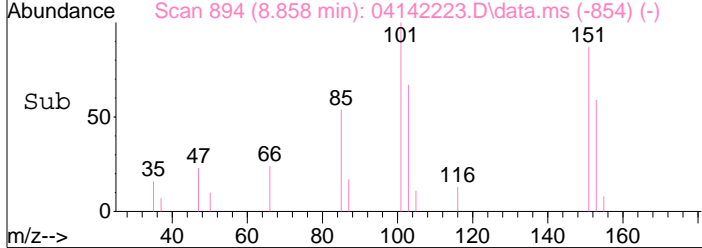
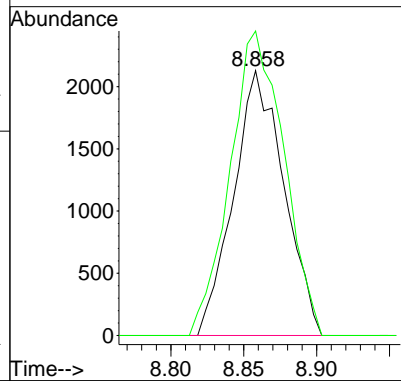
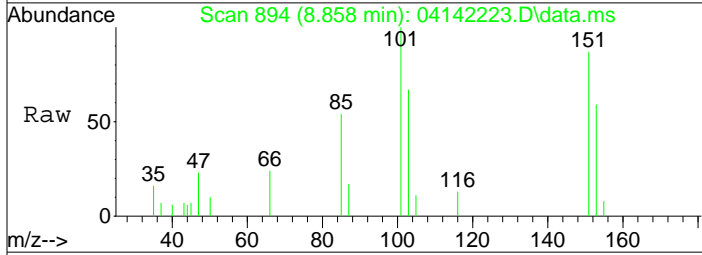
#19
 Methylene Chloride
 Concen: 0.97 ng
 RT: 8.43 min Scan# 819
 Delta R.T. -0.045 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

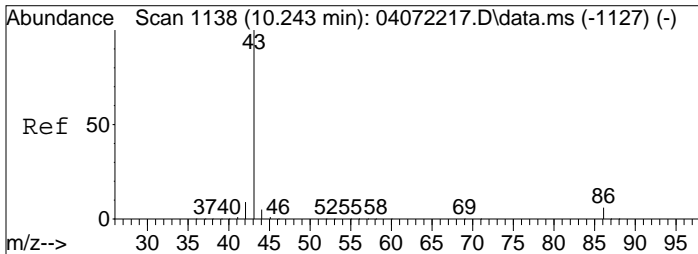
Tgt Ion: 84 Resp: 11746
 Ion Ratio Lower Upper
 84 100
 49 190.9 159.1 209.1



#21
 Trichlorotrifluoroethane
 Concen: 0.46 ng
 RT: 8.86 min Scan# 894
 Delta R.T. -0.023 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

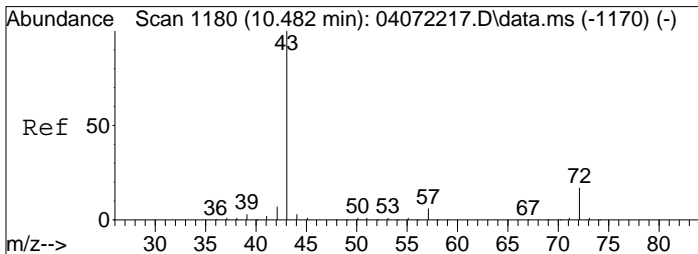
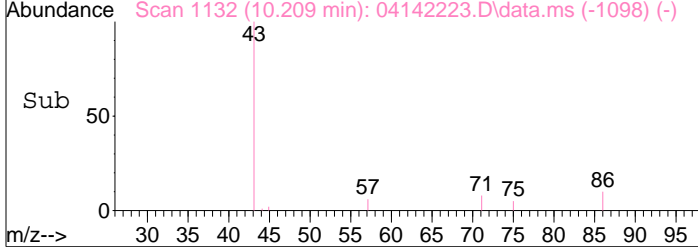
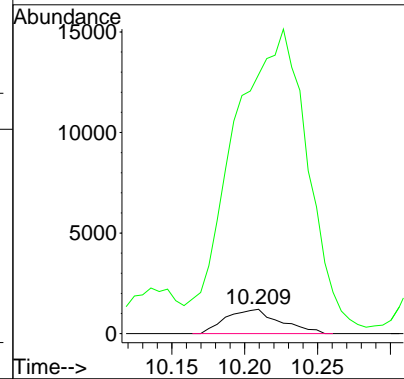
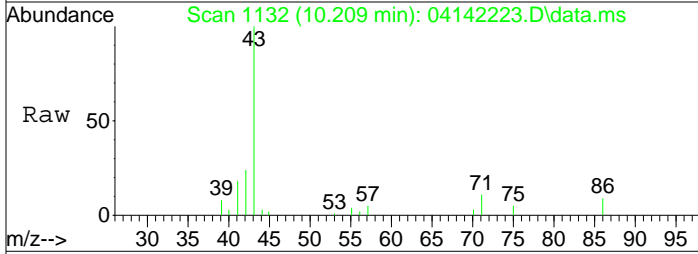
Tgt Ion: 151 Resp: 5113
 Ion Ratio Lower Upper
 151 100
 101 123.0 103.7 143.7





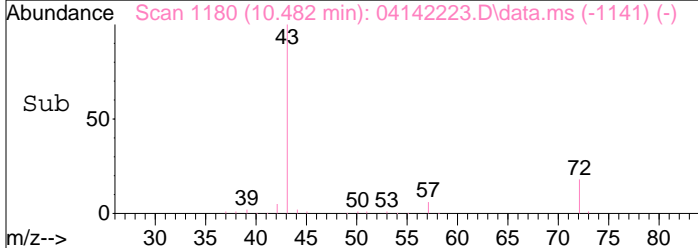
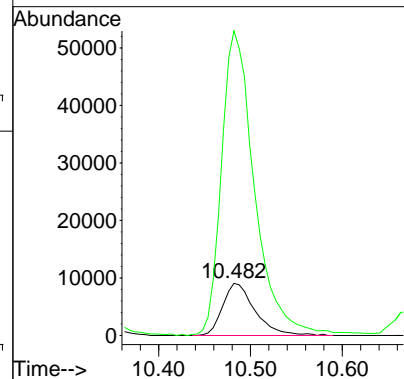
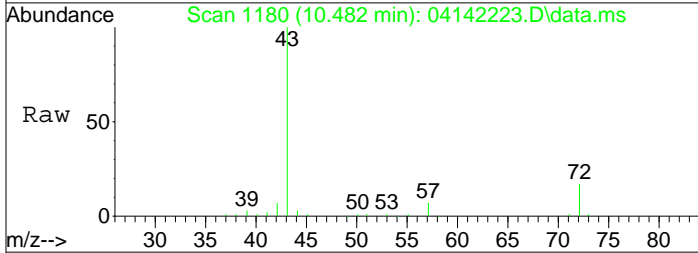
#26
 Vinyl Acetate
 Concen: 1.49 ng
 RT: 10.21 min Scan# 1132
 Delta R.T. -0.057 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

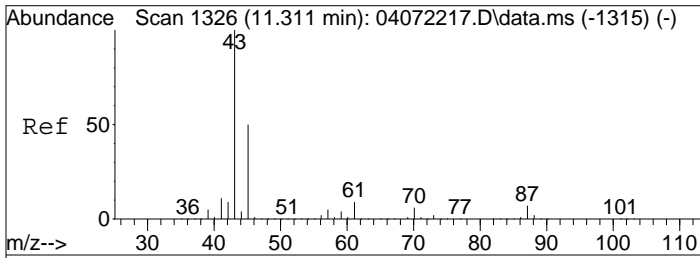
Tgt Ion: 86 Resp: 3117
 Ion Ratio Lower Upper
 86 100
 43 1697.4 1690.9 1730.9



#27
 2-Butanone (MEK)
 Concen: 2.73 ng
 RT: 10.48 min Scan# 1180
 Delta R.T. -0.028 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

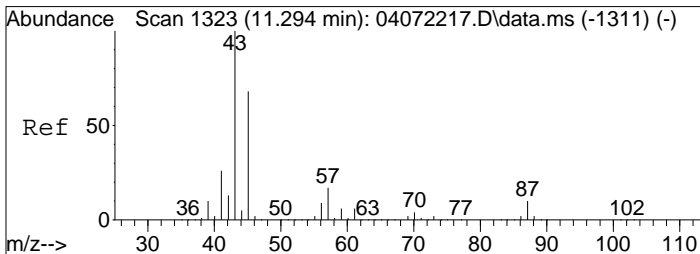
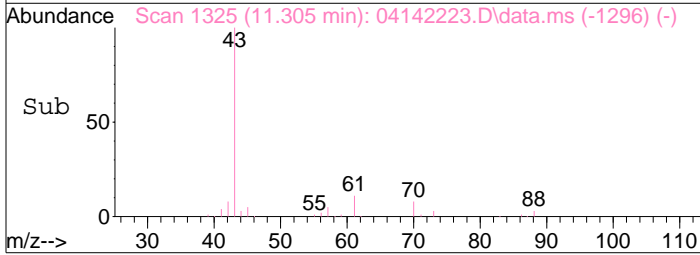
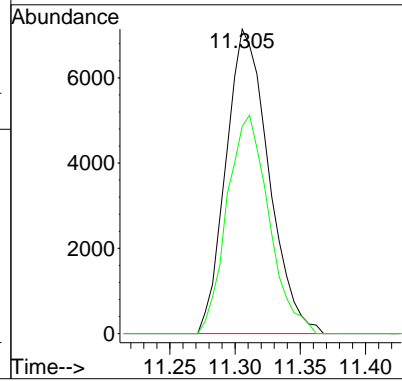
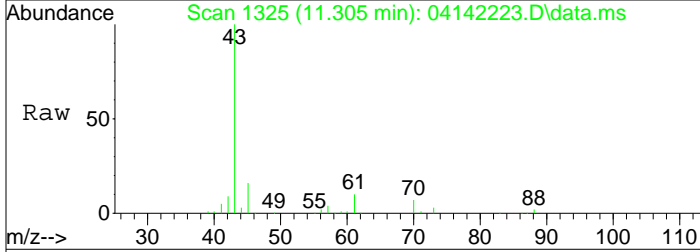
Tgt Ion: 72 Resp: 22142
 Ion Ratio Lower Upper
 72 100
 43 603.2 565.1 605.1





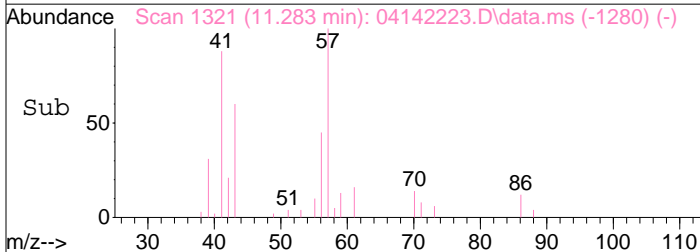
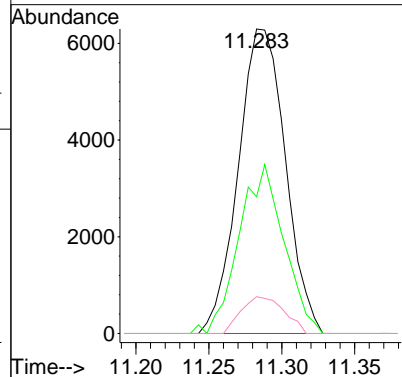
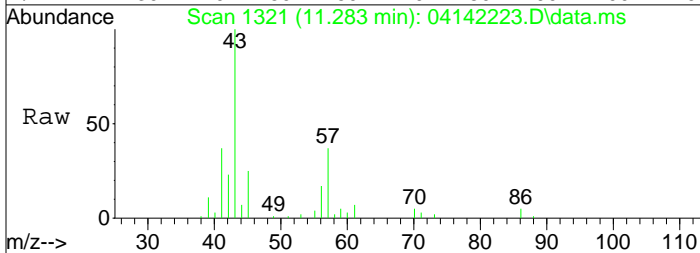
#30
Ethyl Acetate
Concen: 2.81 ng
RT: 11.31 min Scan# 1325
Delta R.T. -0.034 min
Lab File: 04142223.D
Acq: 14 Apr 2022 18:52

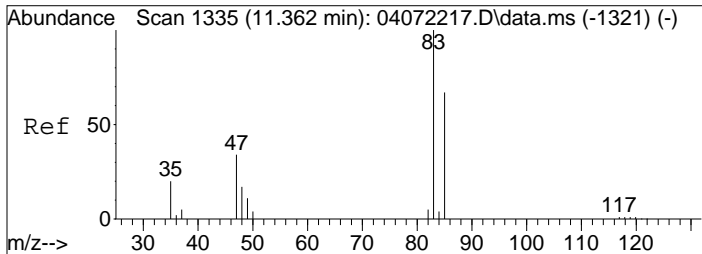
Tgt Ion: 61 Resp: 16268
Ion Ratio Lower Upper
61 100
70 70.2 50.8 90.8



#31
n-Hexane
Concen: 0.54 ng
RT: 11.28 min Scan# 1321
Delta R.T. -0.017 min
Lab File: 04142223.D
Acq: 14 Apr 2022 18:52

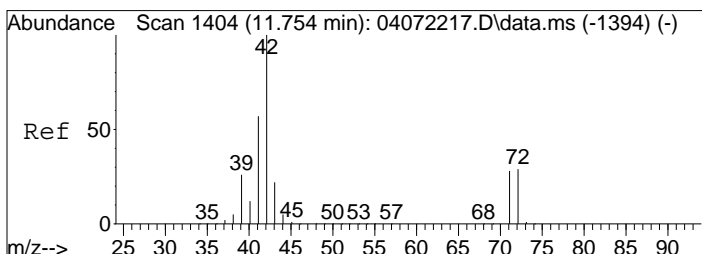
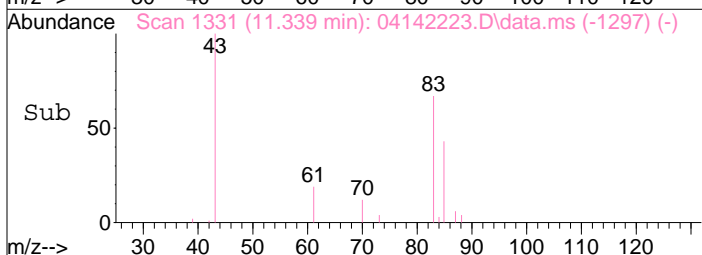
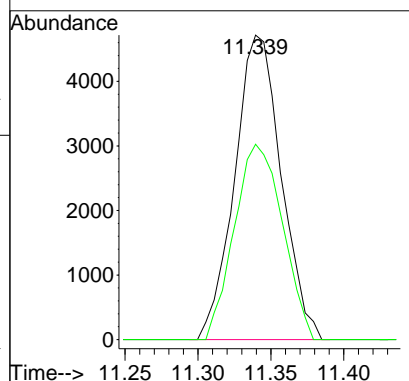
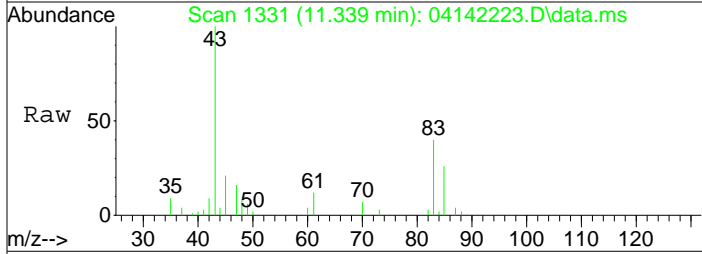
Tgt Ion: 57 Resp: 14146
Ion Ratio Lower Upper
57 100
56 52.8 41.4 62.2
86 11.0 9.9 14.9





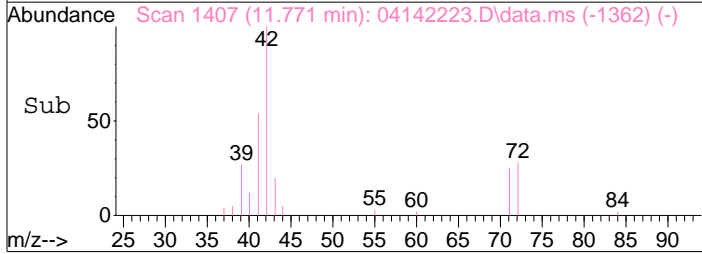
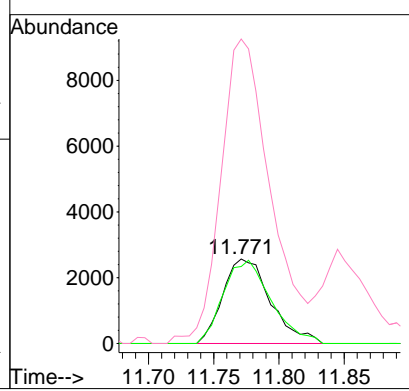
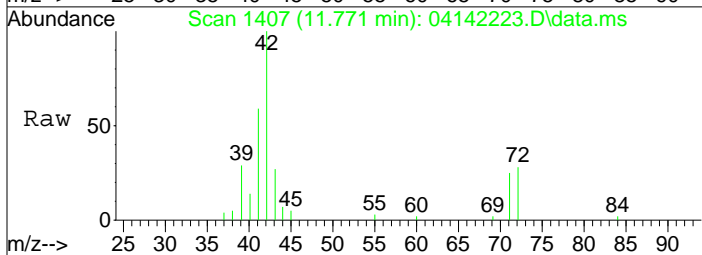
#32
 Chloroform
 Concen: 0.46 ng
 RT: 11.34 min Scan# 1331
 Delta R.T. -0.057 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

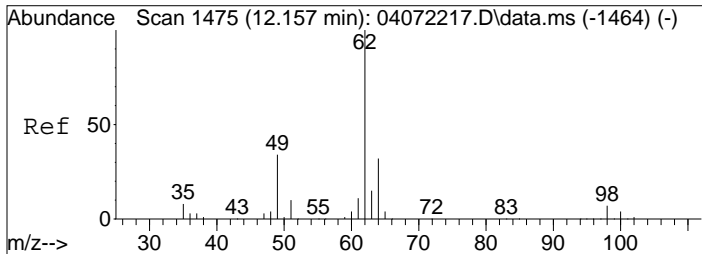
Tgt Ion	Resp	Lower	Upper
83	10479		
83	100		
85	66.4	47.1	87.1



#34
 Tetrahydrofuran (THF)
 Concen: 0.84 ng
 RT: 11.77 min Scan# 1407
 Delta R.T. 0.006 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

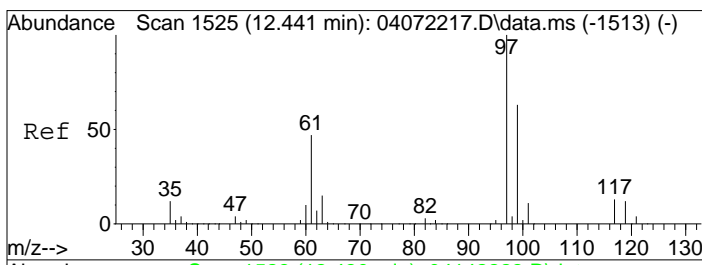
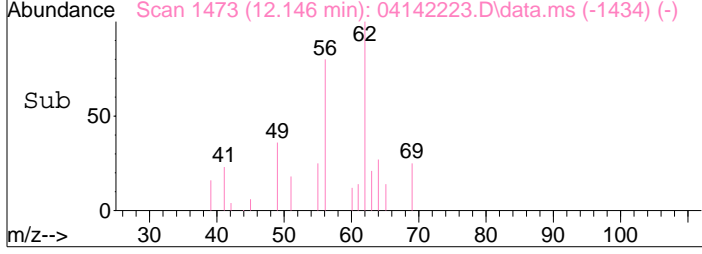
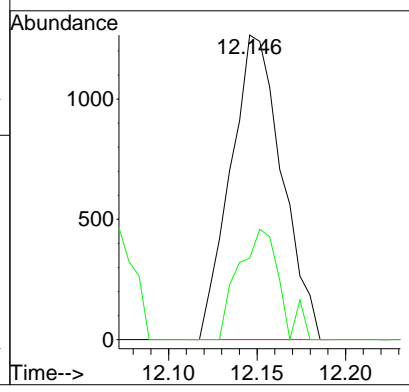
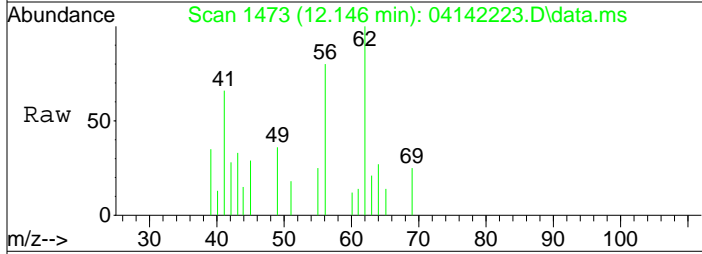
Tgt Ion	Resp	Lower	Upper
72	6530		
72	100		
71	98.9	77.0	117.0
42	373.0	325.1	365.1#





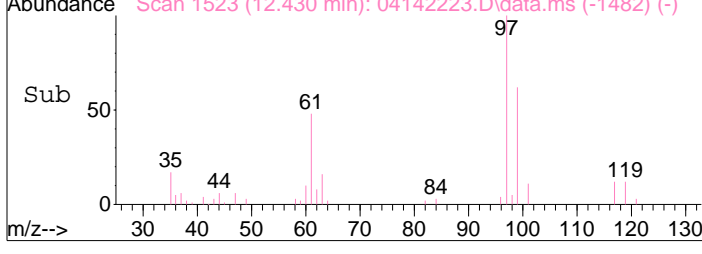
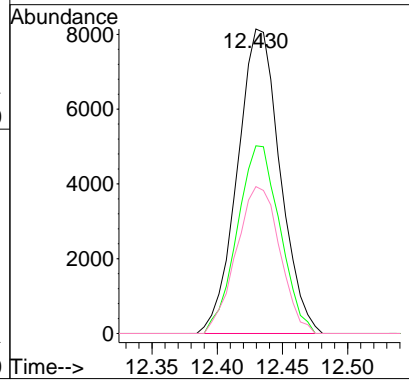
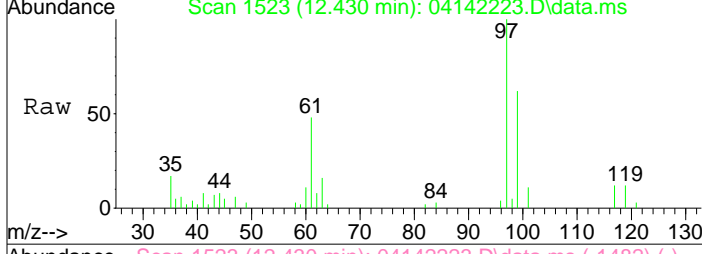
#36
 1,2-Dichloroethane
 Concen: 0.13 ng
 RT: 12.15 min Scan# 1473
 Delta R.T. -0.028 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

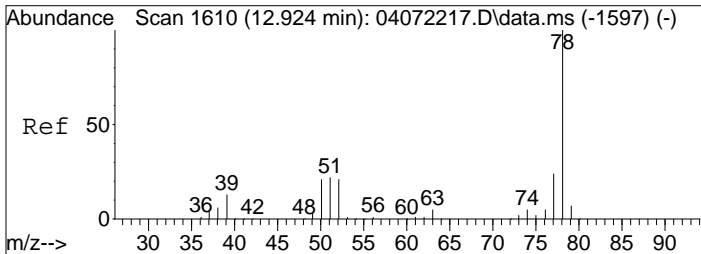
Tgt Ion:	Resp:	Lower	Upper
62	100		
64	29.1	12.3	52.3



#38
 1,1,1-Trichloroethane
 Concen: 0.84 ng
 RT: 12.43 min Scan# 1523
 Delta R.T. -0.017 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

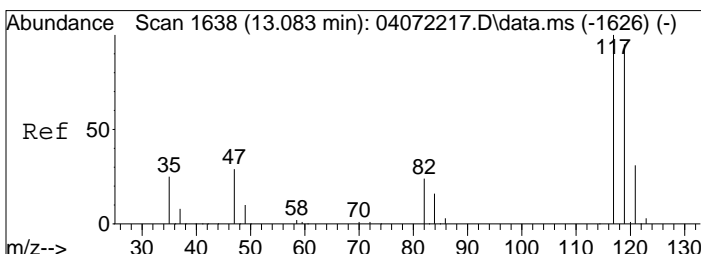
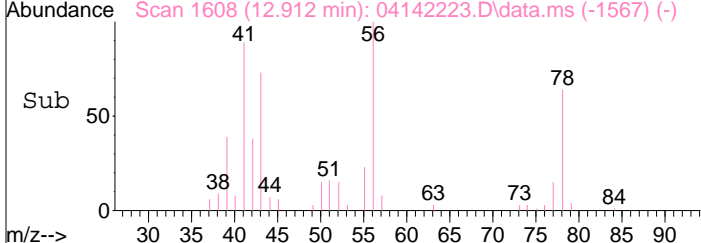
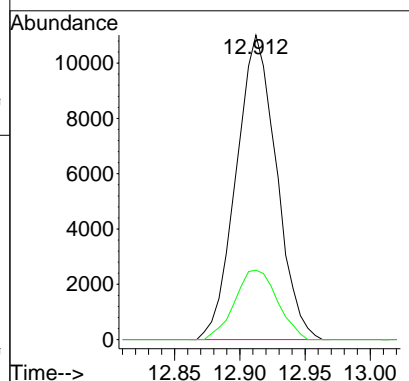
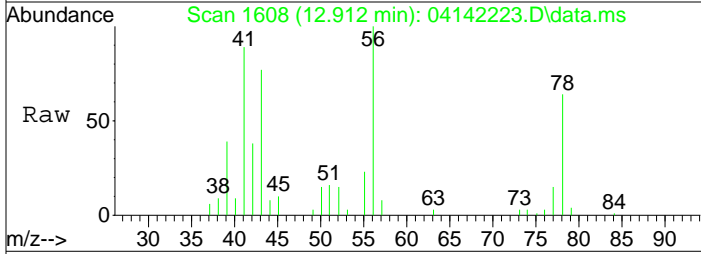
Tgt Ion:	Resp:	Lower	Upper
97	100		
99	61.7	43.5	83.5
61	49.3	27.7	67.7





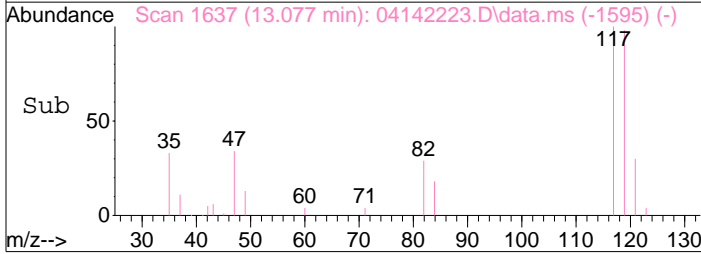
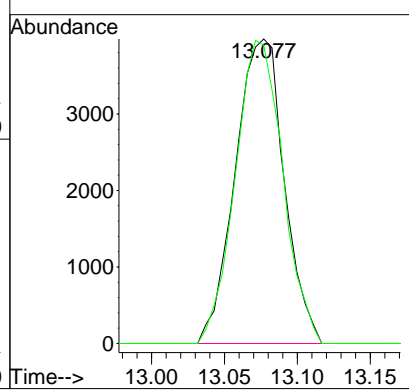
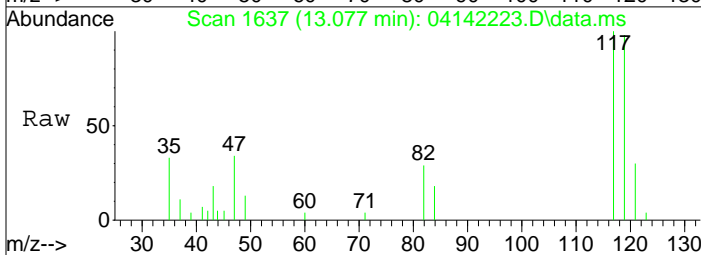
#41
Benzene
Concen: 0.48 ng
RT: 12.91 min Scan# 1608
Delta R.T. -0.017 min
Lab File: 04142223.D
Acq: 14 Apr 2022 18:52

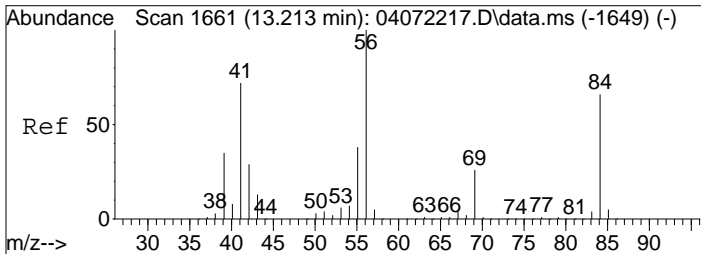
Tgt Ion	Resp	Lower	Upper
78	100		
77	24.2	3.9	43.9



#42
Carbon Tetrachloride
Concen: 0.49 ng
RT: 13.08 min Scan# 1637
Delta R.T. -0.011 min
Lab File: 04142223.D
Acq: 14 Apr 2022 18:52

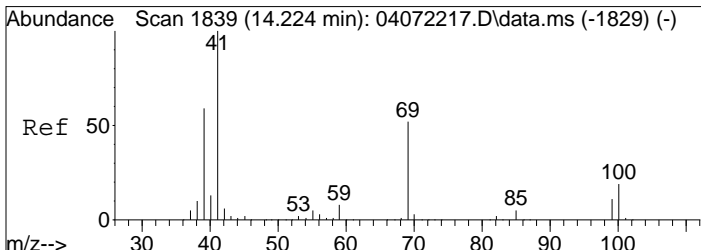
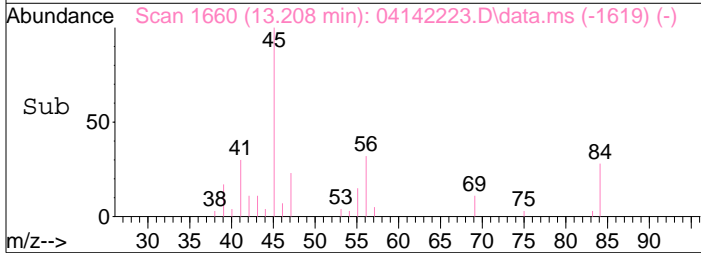
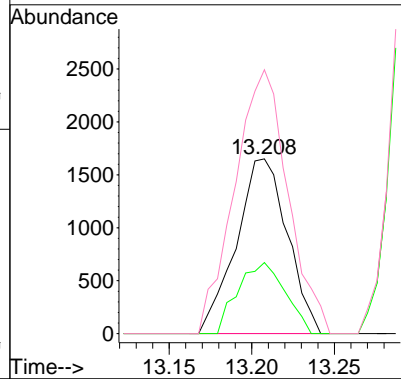
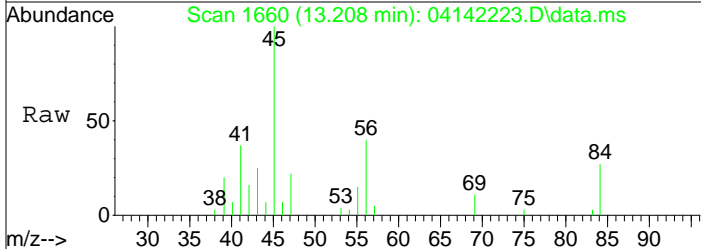
Tgt Ion	Resp	Lower	Upper
117	100		
119	96.6	75.0	115.0





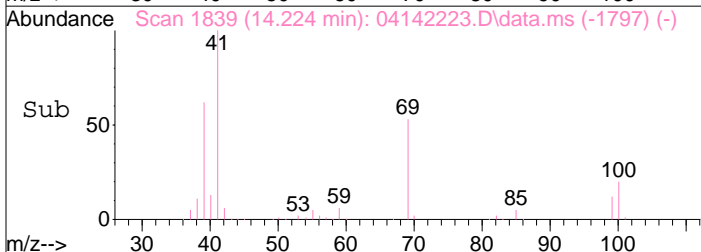
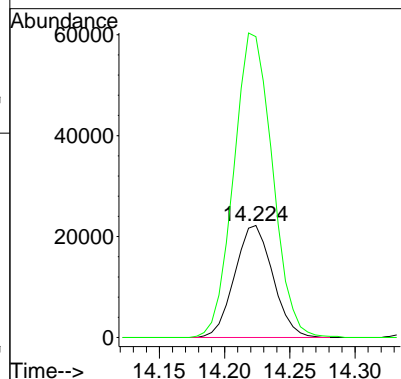
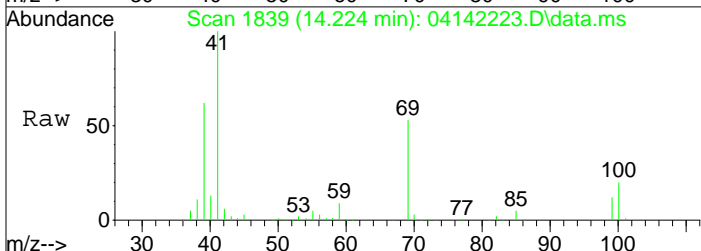
#43
 Cyclohexane
 Concen: 0.19 ng
 RT: 13.21 min Scan# 1660
 Delta R.T. -0.017 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

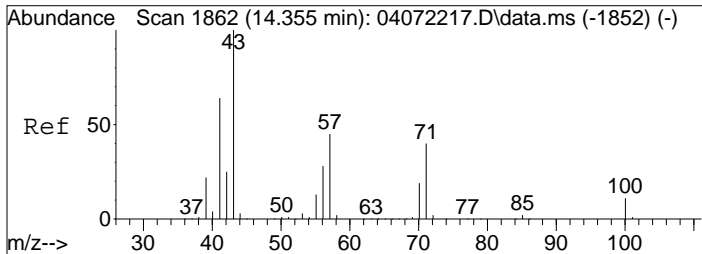
Tgt Ion:	84	Resp:	3552
Ion Ratio	Lower	Upper	
84	100		
69	37.5	18.6	58.6
56	157.3	128.4	168.4



#50
 Methyl Methacrylate
 Concen: 9.08 ng
 RT: 14.22 min Scan# 1839
 Delta R.T. -0.011 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

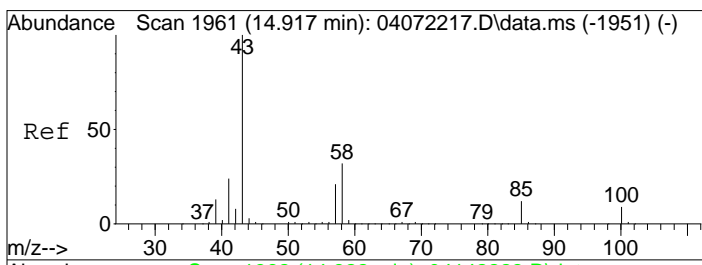
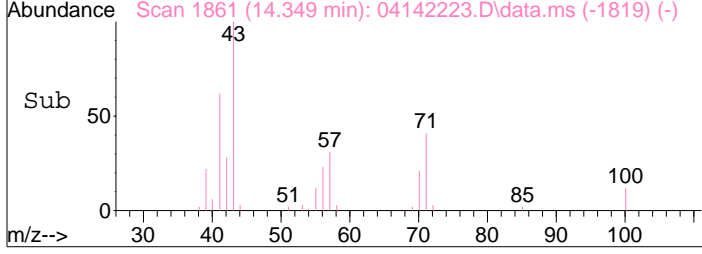
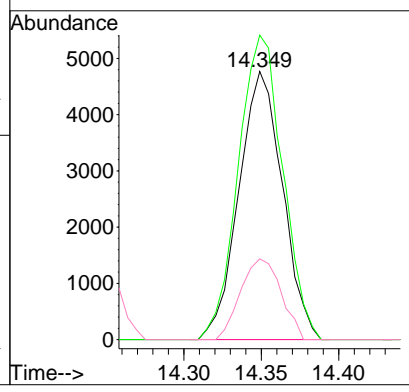
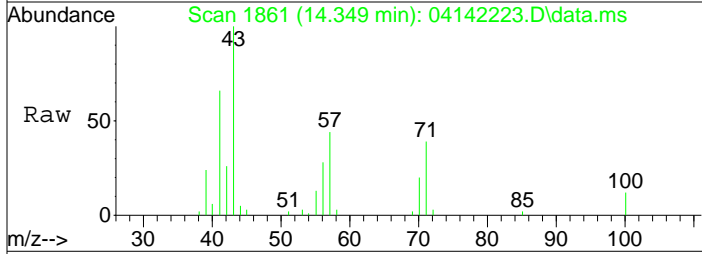
Tgt Ion:	100	Resp:	45157
Ion Ratio	Lower	Upper	
100	100		
69	276.0	250.2	290.2





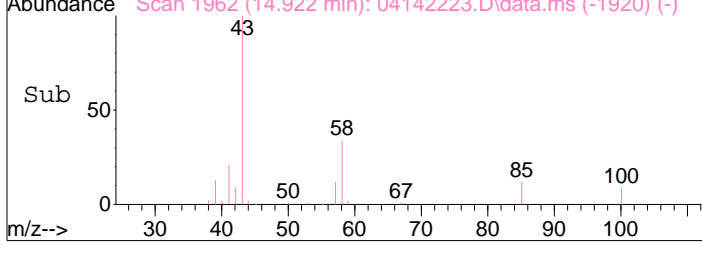
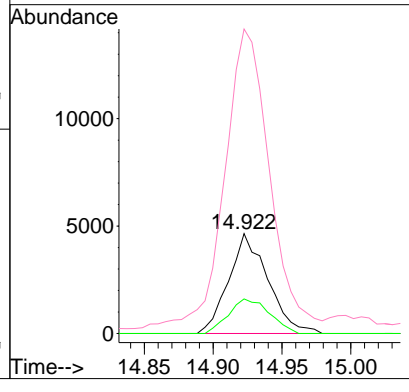
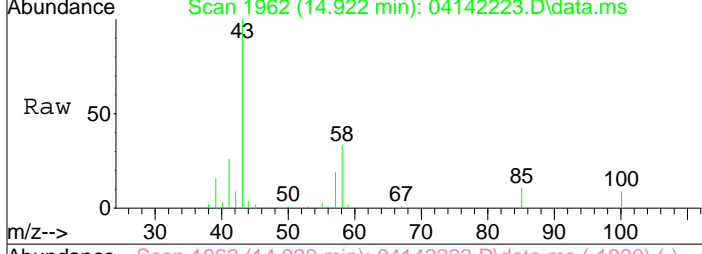
#51
 n-Heptane
 Concen: 0.72 ng
 RT: 14.35 min Scan# 1861
 Delta R.T. -0.011 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

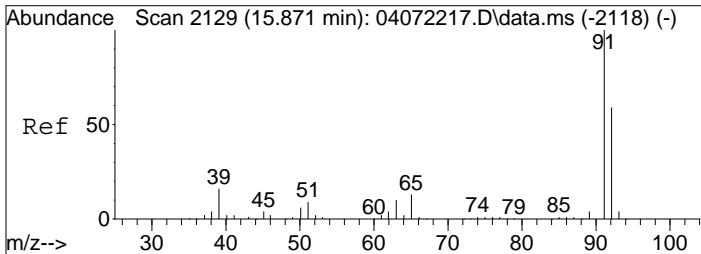
Tgt Ion	Resp	Lower	Upper
71	100		
57	115.7	89.9	129.9
100	27.9	7.5	47.5



#53
 4-Methyl-2-pentanone
 Concen: 0.66 ng
 RT: 14.92 min Scan# 1962
 Delta R.T. -0.012 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

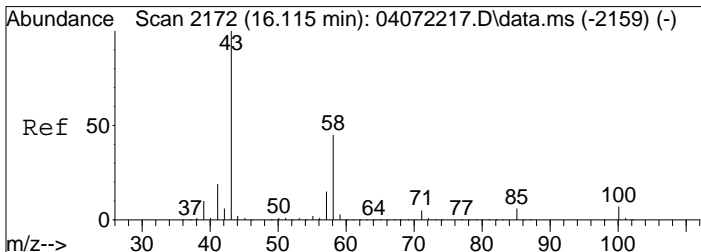
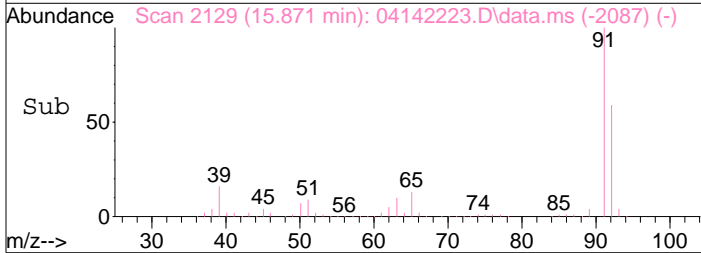
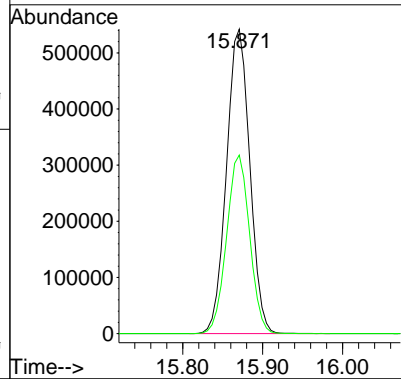
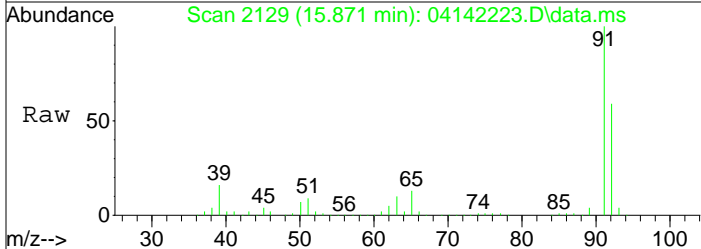
Tgt Ion	Resp	Lower	Upper
58	100		
85	36.0	31.0	46.4
43	345.7	251.1	376.7





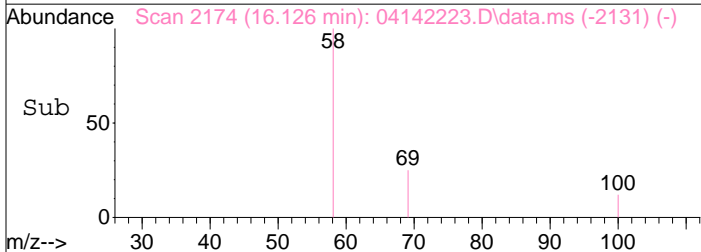
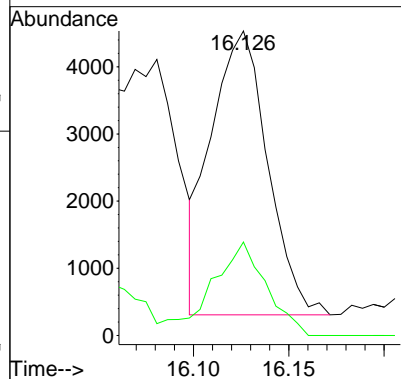
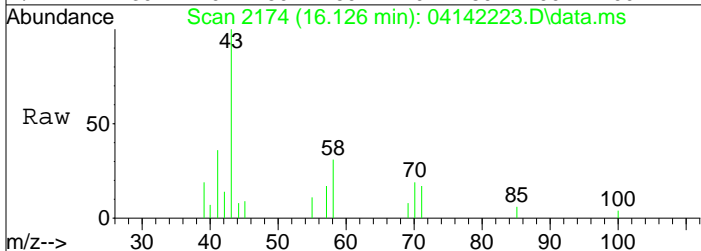
#58
 Toluene
 Concen: 19.50 ng
 RT: 15.87 min Scan# 2129
 Delta R.T. -0.011 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

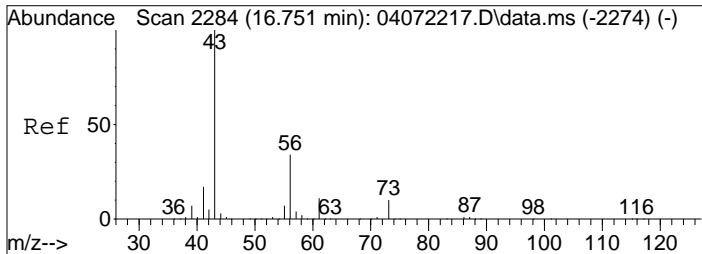
Tgt Ion: 91 Resp: 1097482
 Ion Ratio Lower Upper
 91 100
 92 57.9 38.3 78.3



#59
 2-Hexanone
 Concen: 0.20 ng
 RT: 16.13 min Scan# 2174
 Delta R.T. -0.006 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

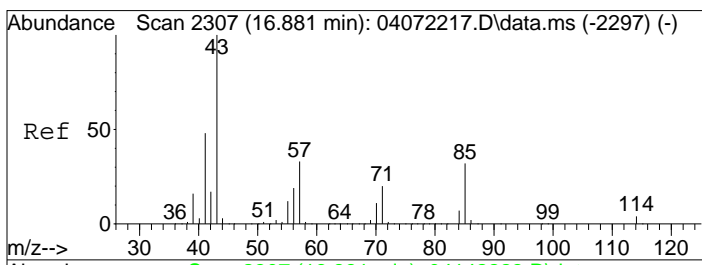
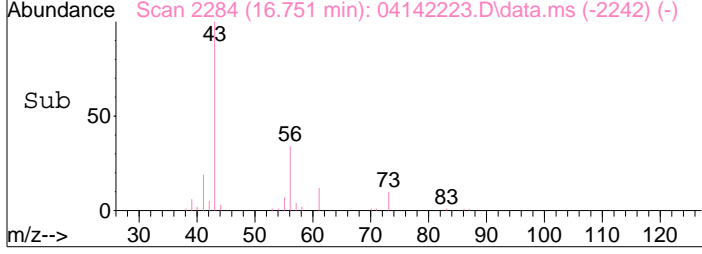
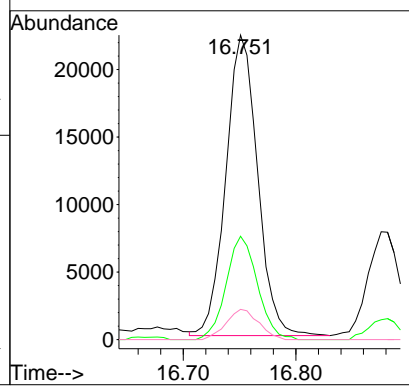
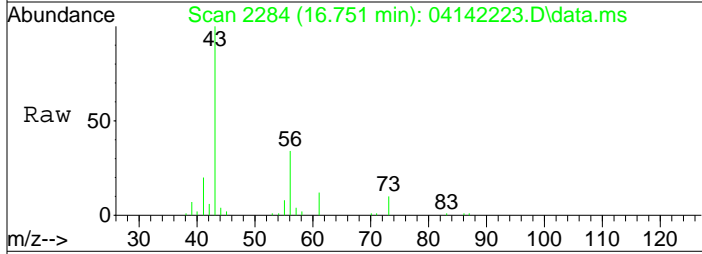
Tgt Ion: 43 Resp: 8745
 Ion Ratio Lower Upper
 43 100
 58 30.9 24.3 64.3





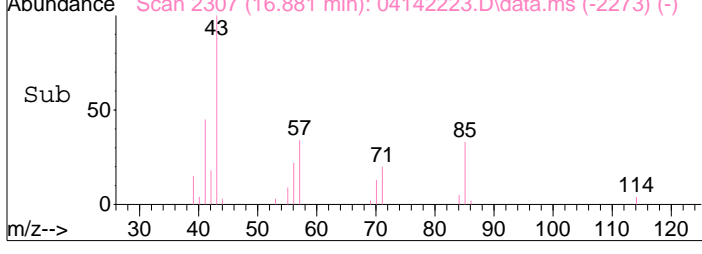
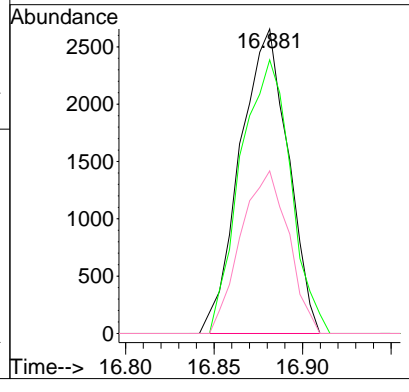
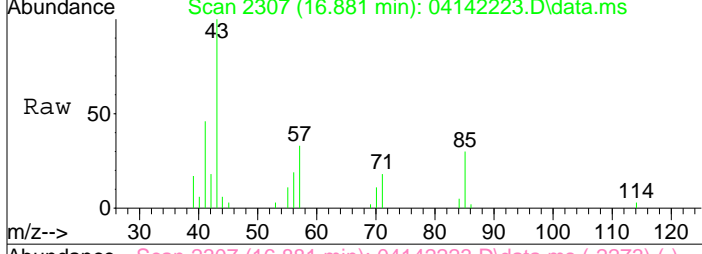
#62
 n-Butyl Acetate
 Concen: 0.92 ng
 RT: 16.75 min Scan# 2284
 Delta R.T. -0.011 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

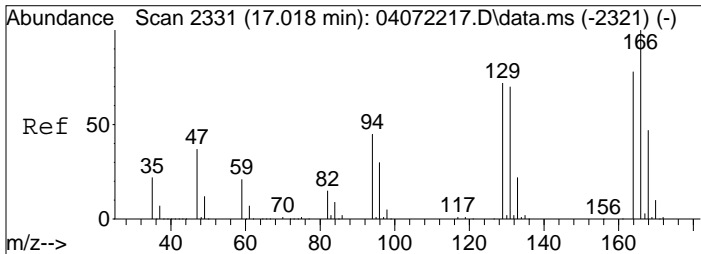
Tgt Ion	Resp	Lower	Upper
43	43609		
56	33.8	13.8	53.8
73	10.2	0.0	29.9



#63
 n-Octane
 Concen: 0.36 ng
 RT: 16.88 min Scan# 2307
 Delta R.T. -0.006 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

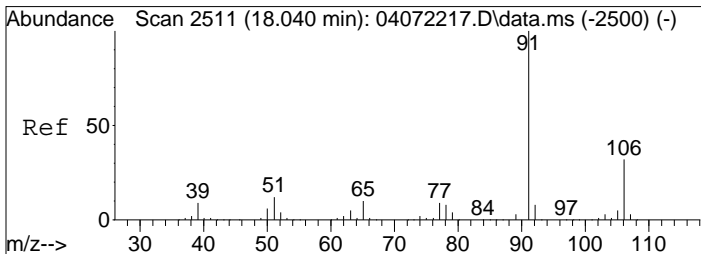
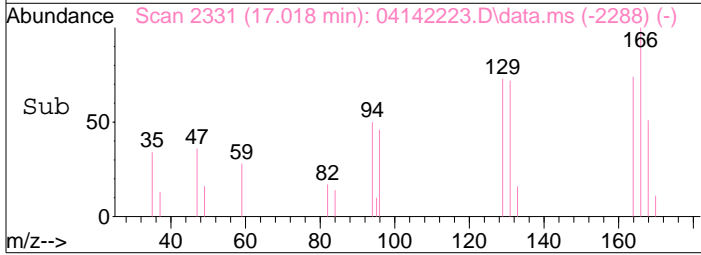
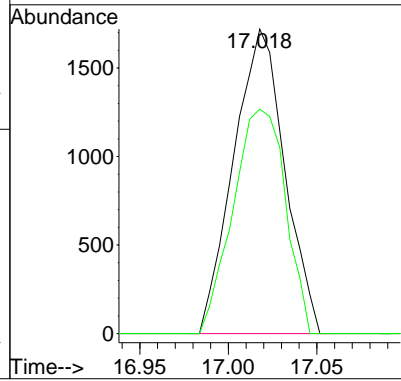
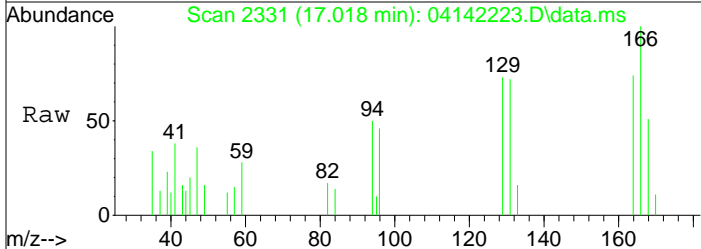
Tgt Ion	Resp	Lower	Upper
57	5023		
85	93.5	77.4	116.0
71	52.9	47.0	70.6





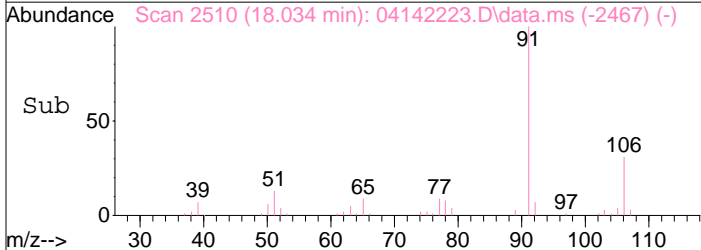
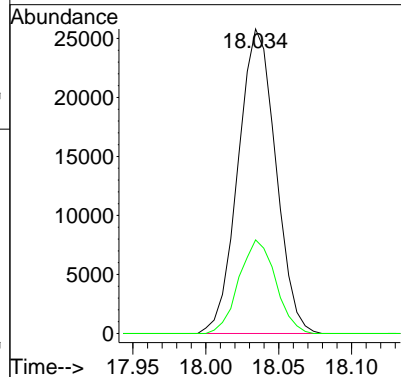
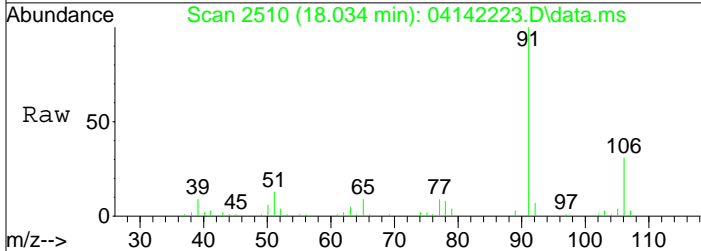
#64
 Tetrachloroethene
 Concen: 0.22 ng
 RT: 17.02 min Scan# 2331
 Delta R.T. -0.006 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

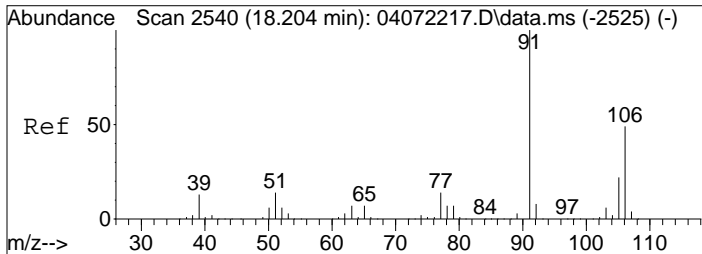
Tgt Ion	Resp	Lower	Upper
166	100		
164	75.5	57.8	97.8



#66
 Ethylbenzene
 Concen: 0.72 ng
 RT: 18.03 min Scan# 2510
 Delta R.T. -0.006 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

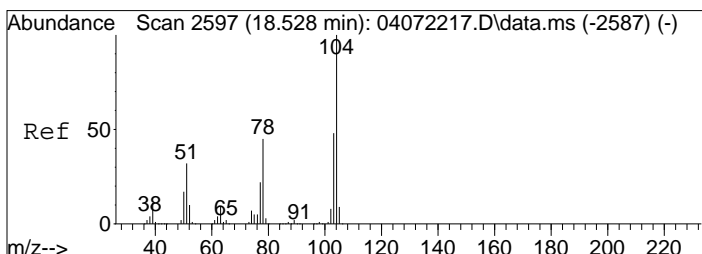
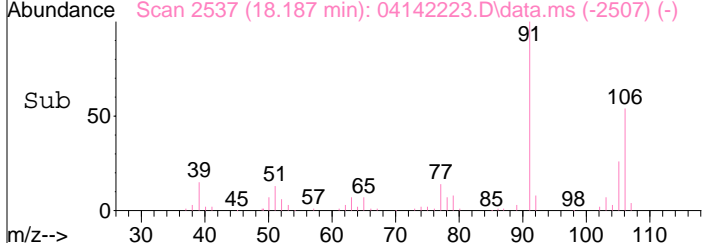
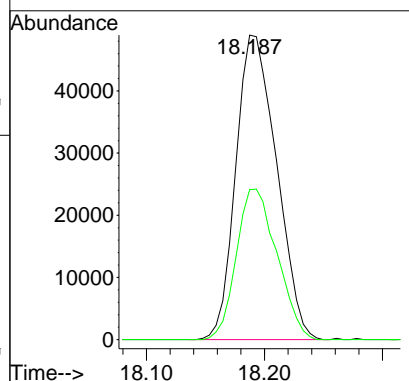
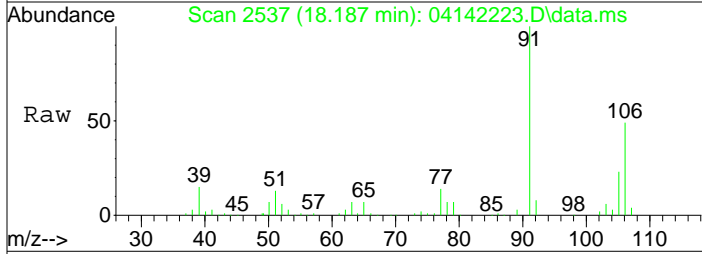
Tgt Ion	Resp	Lower	Upper
91	100		
106	29.9	11.6	51.6





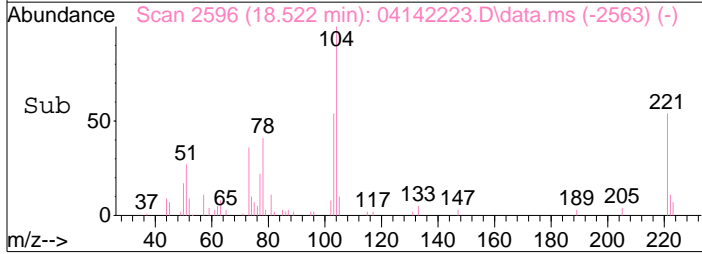
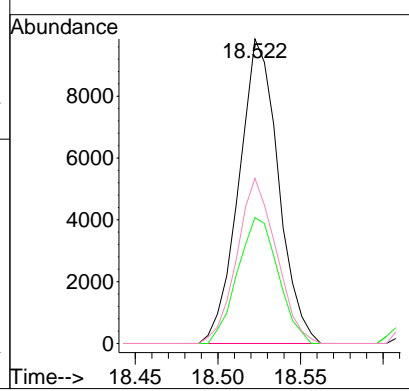
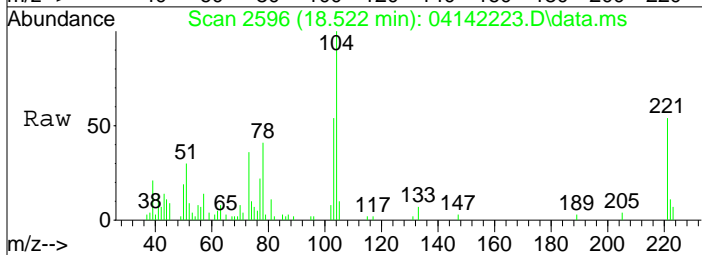
#67
 m- & p-Xylenes
 Concen: 2.28 ng
 RT: 18.19 min Scan# 2537
 Delta R.T. -0.028 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

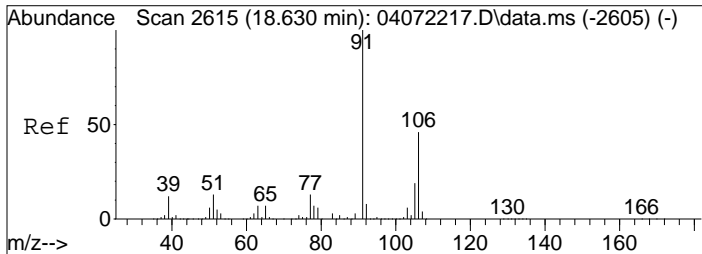
Tgt Ion	Resp	Lower	Upper
91	117557		
106	49.2	28.3	68.3



#69
 Styrene
 Concen: 0.45 ng
 RT: 18.52 min Scan# 2596
 Delta R.T. -0.011 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

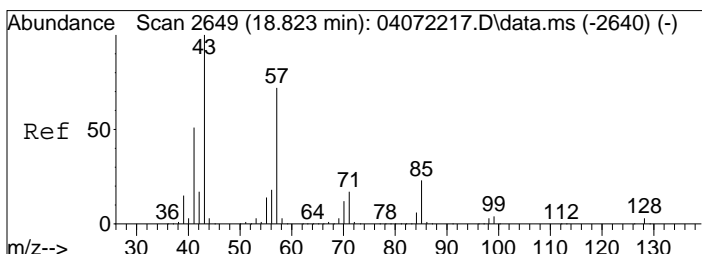
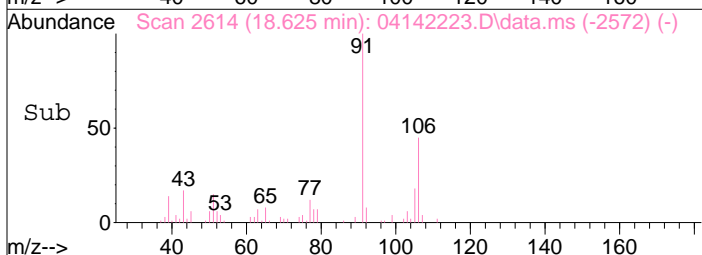
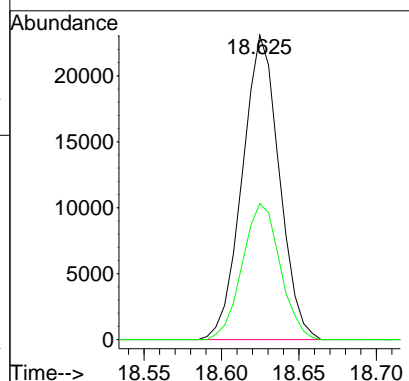
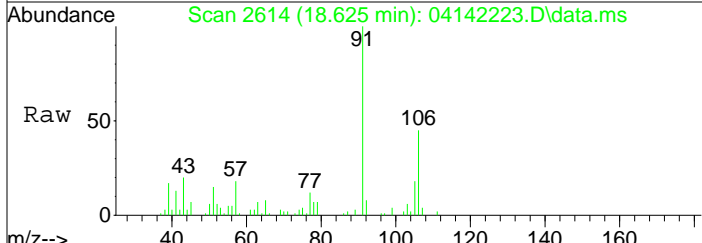
Tgt Ion	Resp	Lower	Upper
104	16372		
78	42.6	24.9	64.9
103	54.1	28.2	68.2





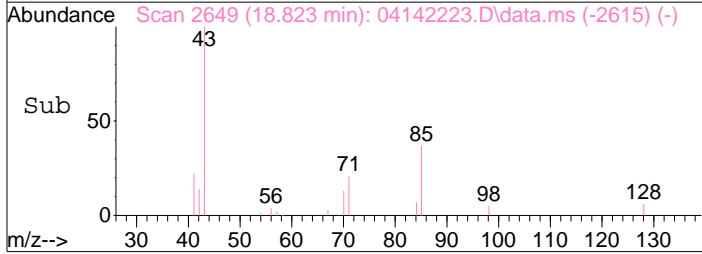
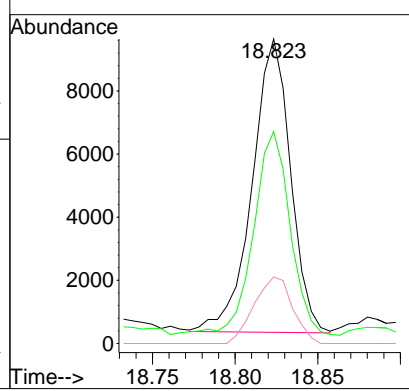
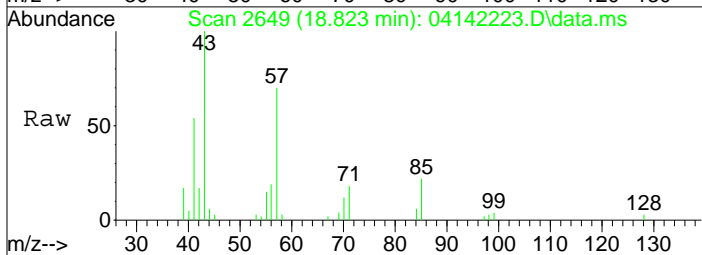
#70
 o-Xylene
 Concen: 0.74 ng
 RT: 18.62 min Scan# 2614
 Delta R.T. -0.011 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

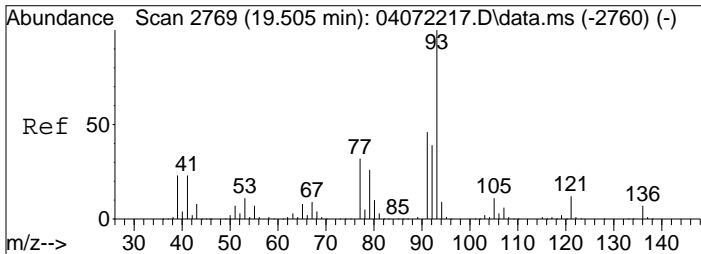
Tgt Ion	Resp	Lower	Upper
91	100		
106	45.6	26.5	66.5



#71
 n-Nonane
 Concen: 0.38 ng
 RT: 18.82 min Scan# 2649
 Delta R.T. -0.006 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

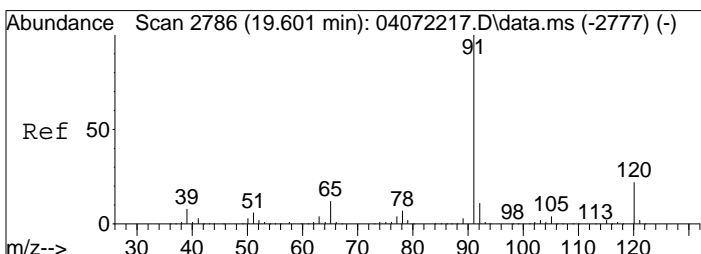
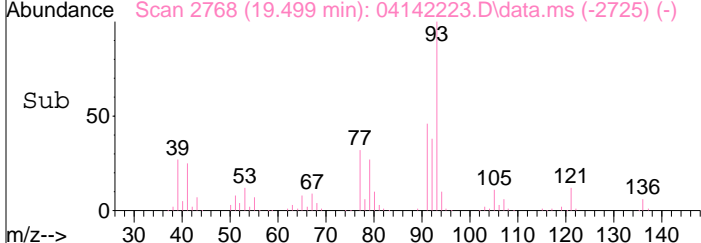
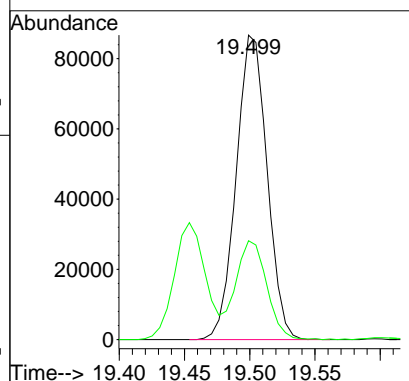
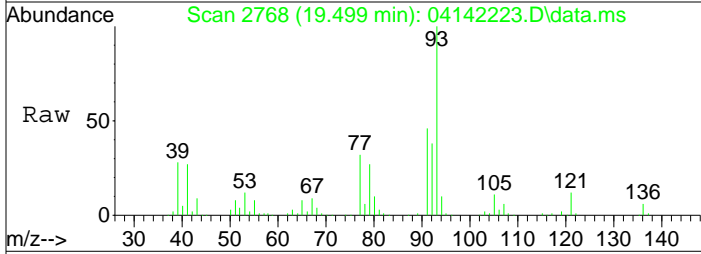
Tgt Ion	Resp	Lower	Upper
43	100		
57	67.1	52.5	92.5
85	22.7	3.6	43.6





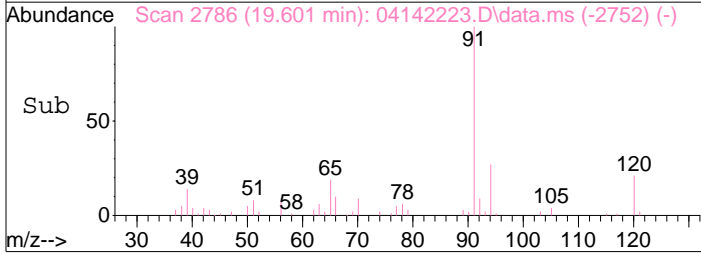
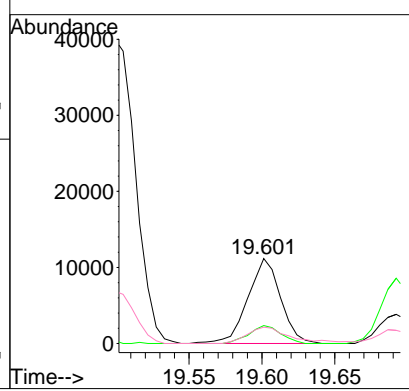
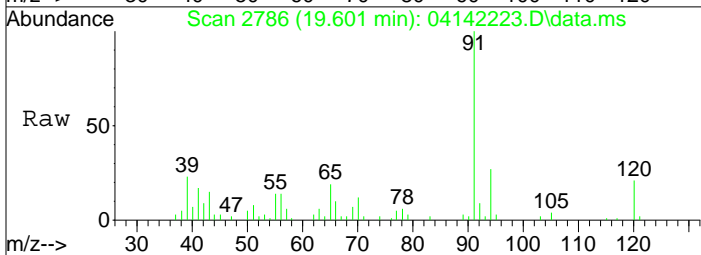
#75
 alpha-Pinene
 Concen: 4.60 ng
 RT: 19.50 min Scan# 2768
 Delta R.T. -0.006 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

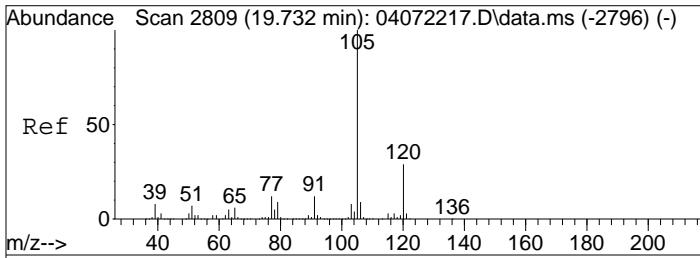
Tgt Ion	Resp	Lower	Upper
93	142747		
93	100		
77	32.9	12.7	52.7



#76
 n-Propylbenzene
 Concen: 0.22 ng
 RT: 19.60 min Scan# 2786
 Delta R.T. -0.006 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

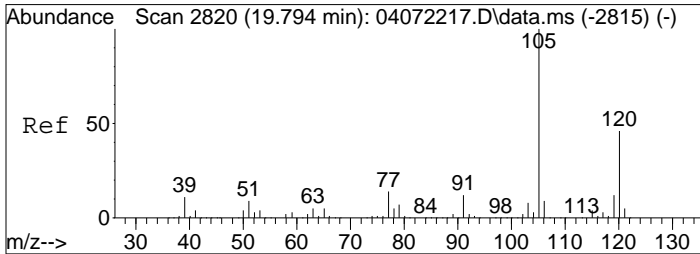
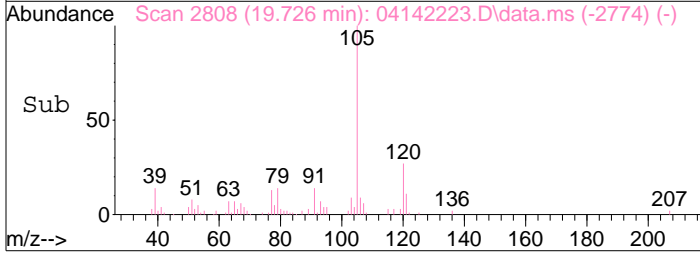
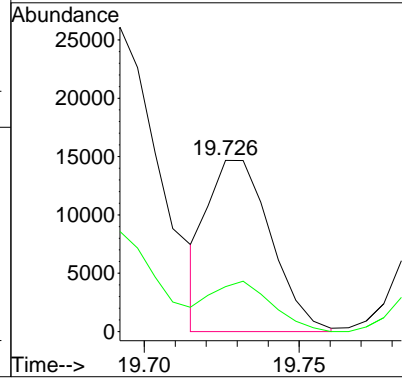
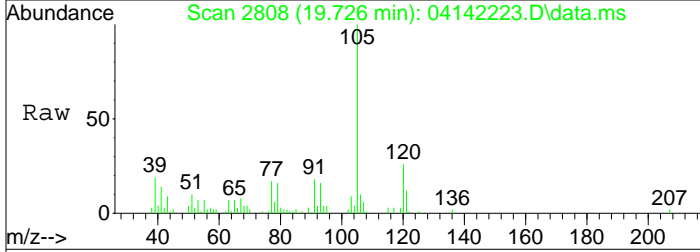
Tgt Ion	Resp	Lower	Upper
91	17439		
91	100		
120	20.5	2.3	42.3
65	25.7	0.0	31.8





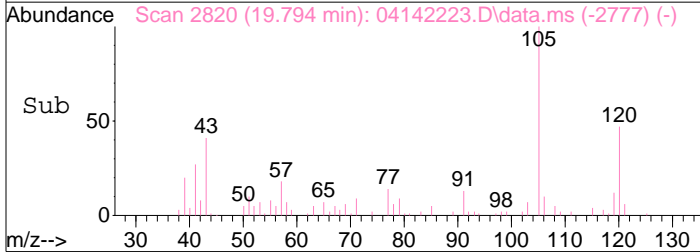
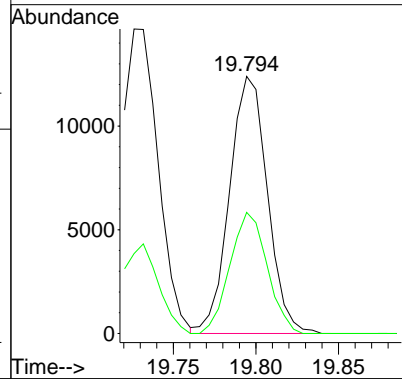
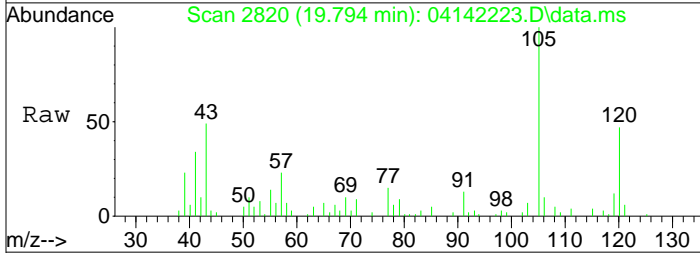
#78
 4-Ethyltoluene
 Concen: 0.33 ng
 RT: 19.73 min Scan# 2808
 Delta R.T. -0.006 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

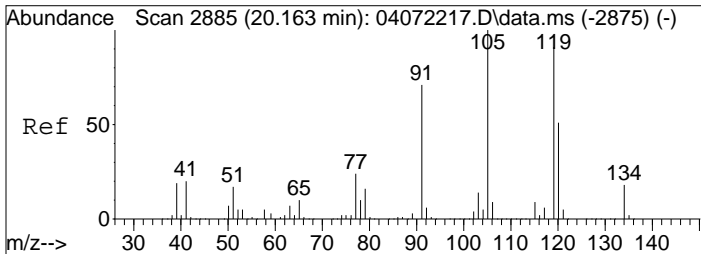
Tgt Ion:105 Resp: 20858
 Ion Ratio Lower Upper
 105 100
 120 28.7 9.4 49.4



#79
 1,3,5-Trimethylbenzene
 Concen: 0.37 ng
 RT: 19.79 min Scan# 2820
 Delta R.T. -0.006 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

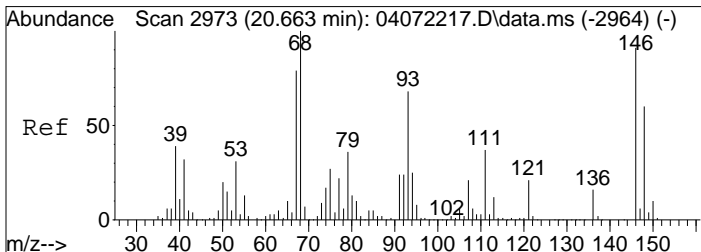
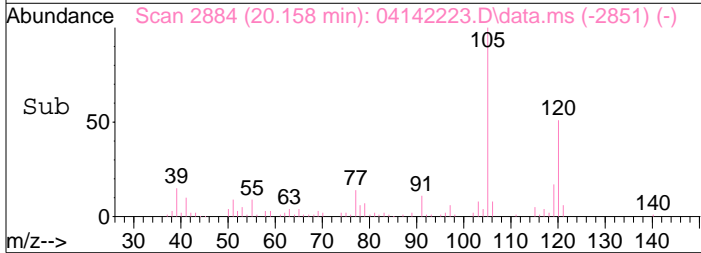
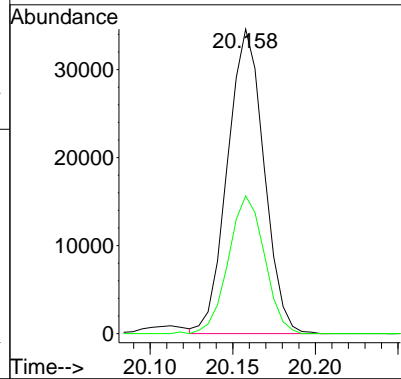
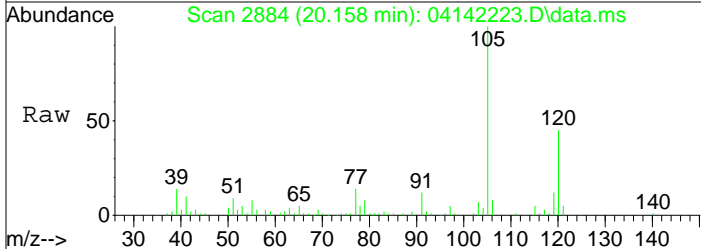
Tgt Ion:105 Resp: 19780
 Ion Ratio Lower Upper
 105 100
 120 46.2 27.1 67.1





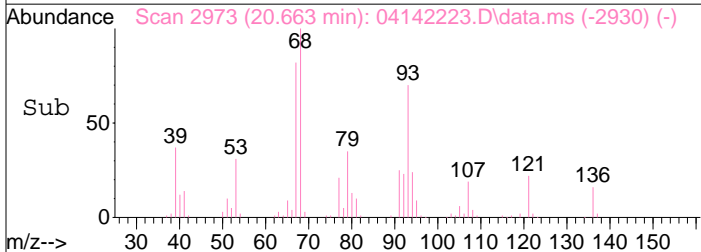
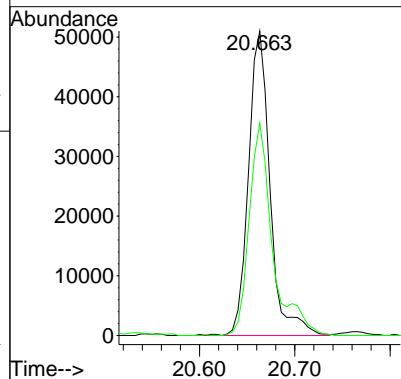
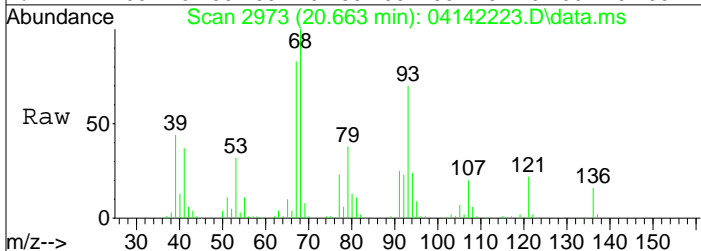
#82
 1,2,4-Trimethylbenzene
 Concen: 0.96 ng
 RT: 20.16 min Scan# 2884
 Delta R.T. -0.011 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

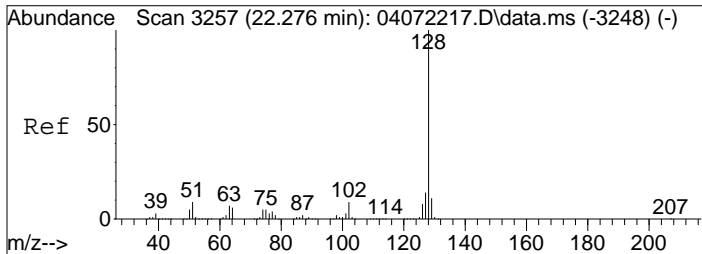
Tgt Ion: 105 Resp: 53128
 Ion Ratio Lower Upper
 105 100
 120 44.7 31.1 71.1



#91
 d-Limonene
 Concen: 3.89 ng
 RT: 20.66 min Scan# 2973
 Delta R.T. -0.006 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

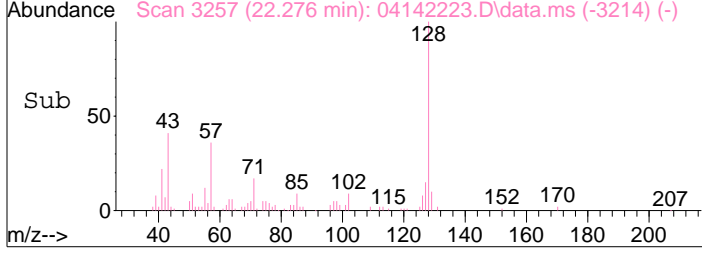
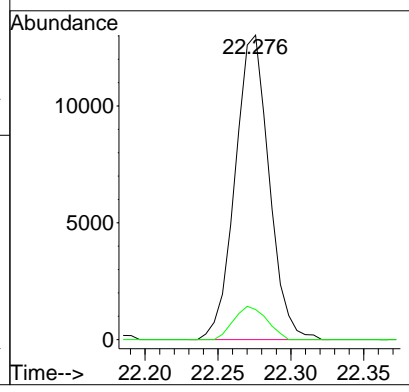
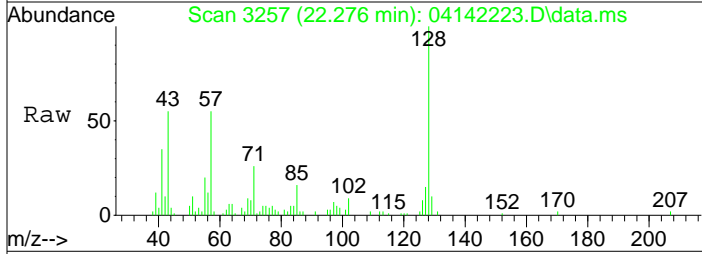
Tgt Ion: 68 Resp: 80284
 Ion Ratio Lower Upper
 68 100
 93 75.7 48.9 88.9





#95
 Naphthalene
 Concen: 0.30 ng
 RT: 22.28 min Scan# 3257
 Delta R.T. -0.005 min
 Lab File: 04142223.D
 Acq: 14 Apr 2022 18:52

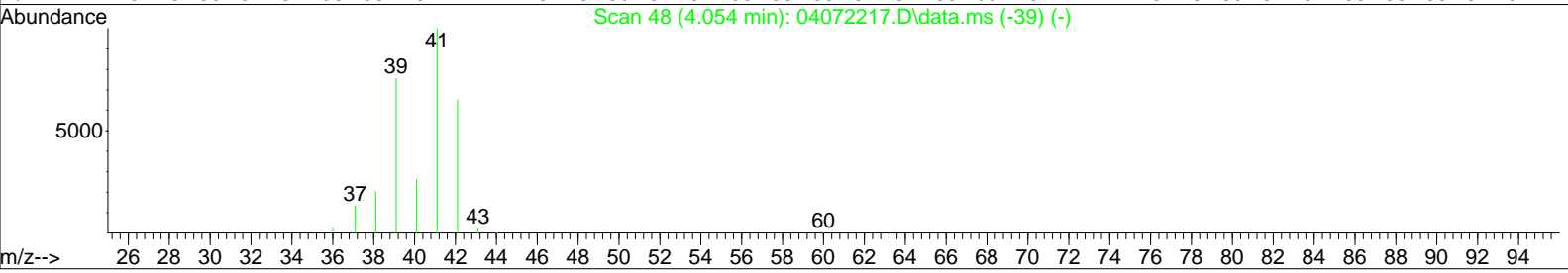
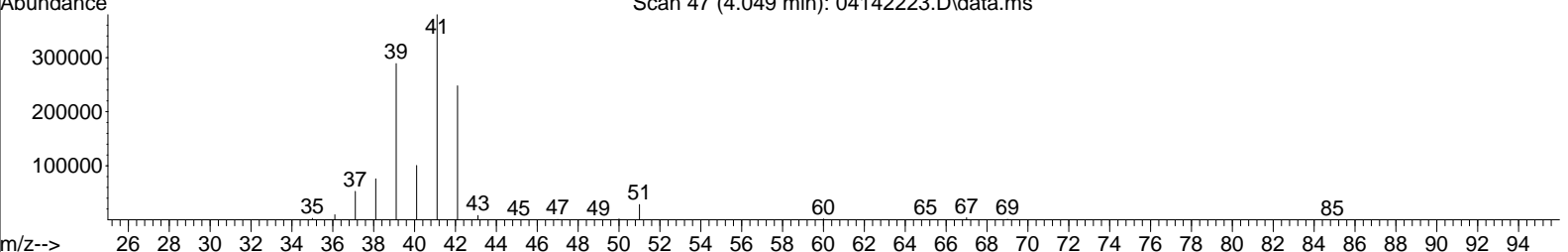
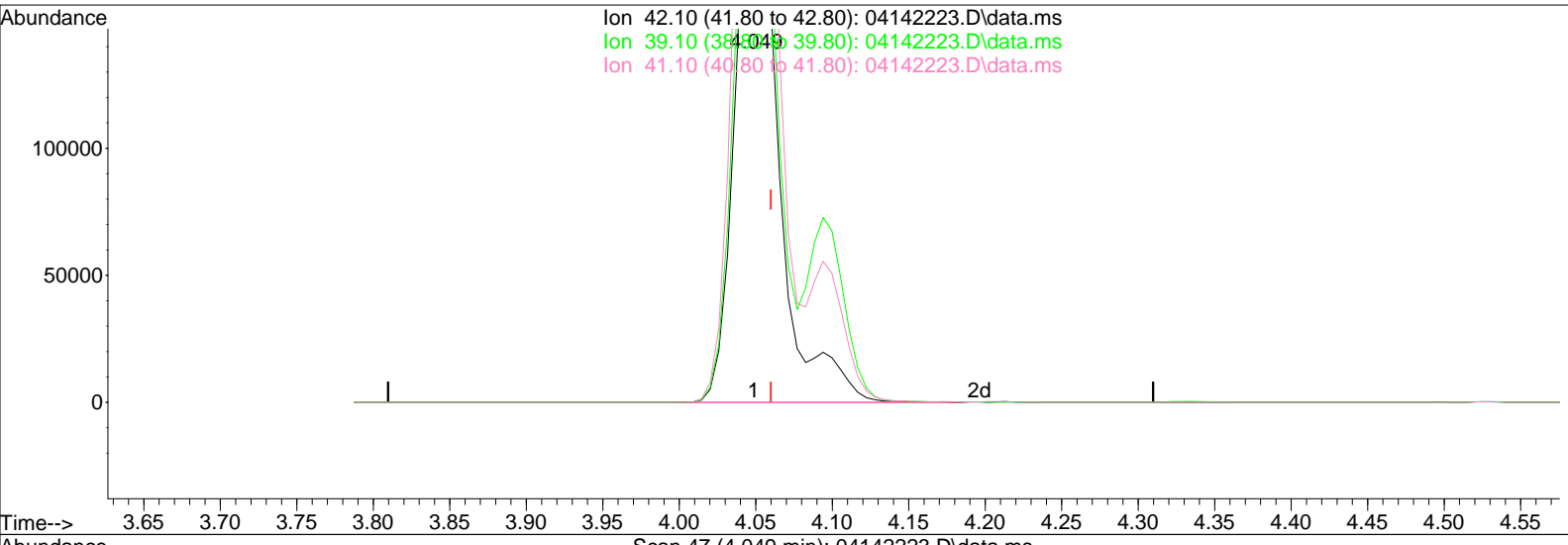
Tgt Ion	Resp	Lower	Upper
128	100		
129	10.6	0.0	31.1



Data File : I:\MS09\DATA\2022 04\14\04142223.D
 Acq On : 14 Apr 2022 18:52
 Sample : P2201602-006 (1000mL)
 Misc : S35-04132201

Vial: 8
 Operator: SC
 Inst : MS09

Quant Time: Apr 15 01:25:17 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



TIC: 04142223.D\data.ms

(2) Propene (T)

4.049min (-0.011) 21.86ng

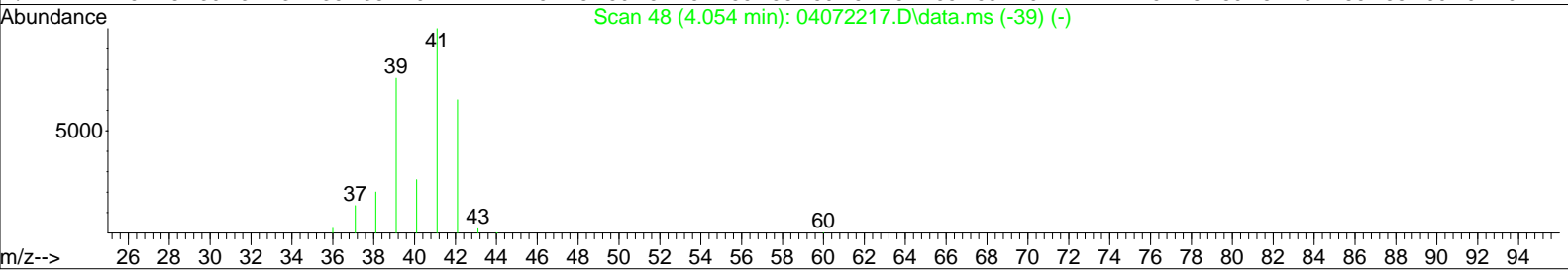
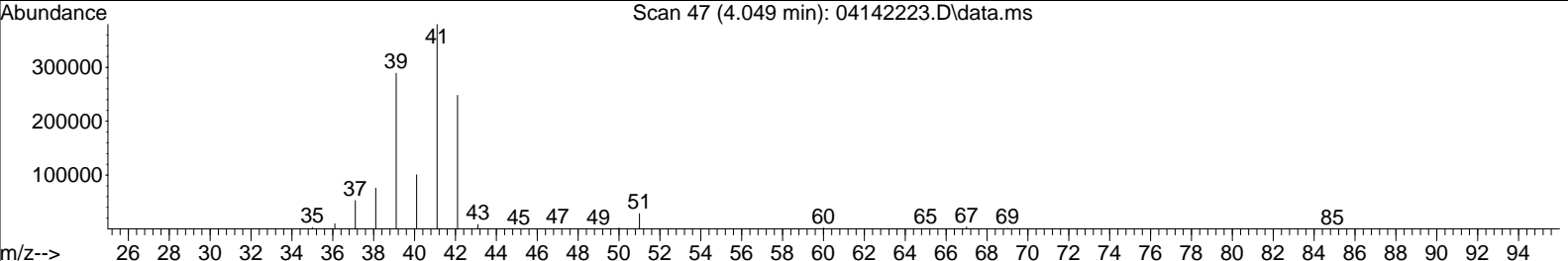
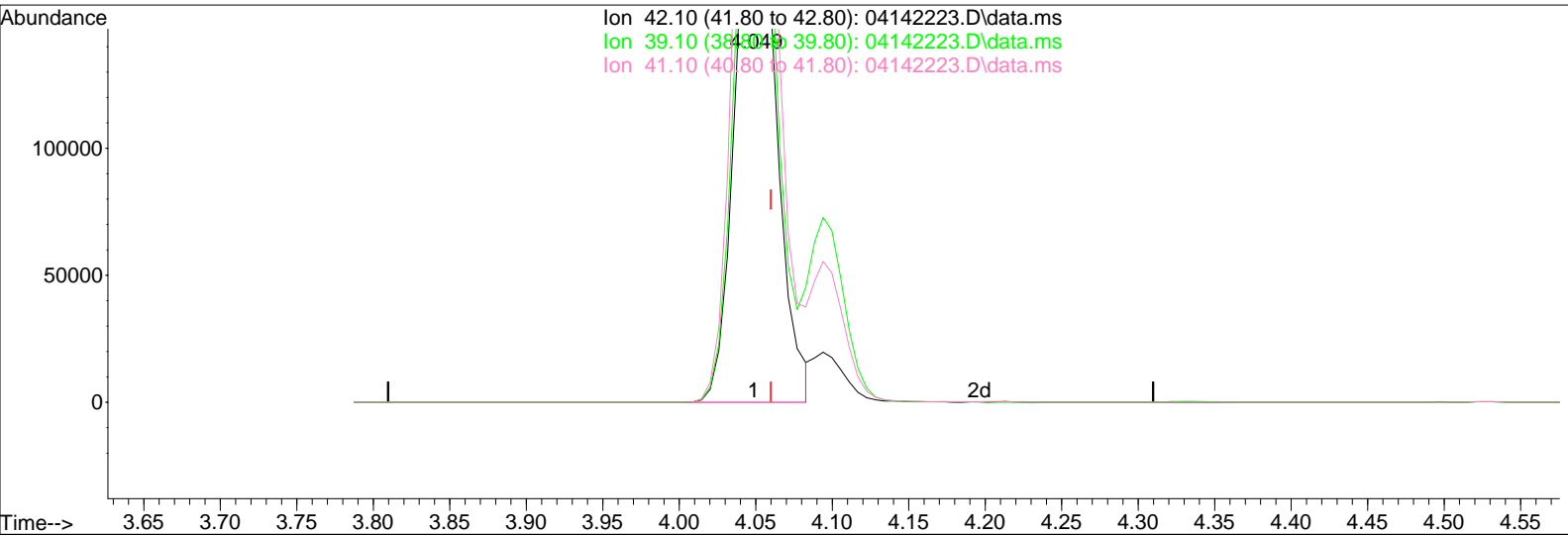
response 441837

Ion	Exp%	Act%
42.10	100	100
39.10	116.70	108.74
41.10	152.40	144.92
0.00	0.00	0.00

Data File : I:\MS09\DATA\2022 04\14\04142223.D
 Acq On : 14 Apr 2022 18:52
 Sample : P2201602-006 (1000mL)
 Misc : S35-04132201

Vial: 8
 Operator: SC
 Inst : MS09

Quant Time: Apr 15 01:25:17 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



TIC: 04142223.D\data.ms

(2) Propene (T)

4.049min (-0.011) 20.43ng m

IPC

response 412873

LH 4/15/22

Ion	Exp%	Act%
42.10	100	100
39.10	116.70	116.37
41.10	152.40	155.08
0.00	0.00	0.00

Data File : I:\MS09\DATA\2022 04\15\04152207.D
 Acq On : 15 Apr 2022 7:29
 Sample : P2201602-006dil (100mL)
 Misc : S35-04132201

Vial: 8
 Operator: WA
 Inst : MS09

Quant Time: Apr 17 18:39:35 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

USA 4/17/22

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.16	130	133809	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	13.30	114	589859	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.64	54	147784	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.03	65	262815	12.840	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery	=	102.72%	
57) Toluene-d8 (SS2)	15.77	98	686038	12.740	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	101.92%	
73) Bromofluorobenzene (SS3)	19.03	174	194152	10.237	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	81.92%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.07	42	9259	0.501	ng	98
3) Dichlorodifluoromethan...	4.21	85	7702	0.305	ng	97
4) Chloromethane	4.52	50	2626	0.125	ng	83
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	5.28	54	836	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.34	45	1119171	83.086	ng	100
11) Acetonitrile	6.60	41	2814	N.D.		
12) Acrolein	6.79	56	1256	0.152	ng	85
13) Acetone	6.99	58	54962	5.183	ng	87
14) Trichlorofluoromethane	7.23	101	4409	0.187	ng	97
15) 2-Propanol (Isopropanol)	7.49	45	809791	19.321	ng	99
16) Acrylonitrile	7.76	53	105	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	8.43	84	1887	0.171	ng	85
20) 3-Chloro-1-propene (Al...	8.55	41	151	N.D.		
21) Trichlorotrifluoroethane	8.87	151	371	N.D.		
22) Carbon Disulfide	8.71	76	896	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)	10.50	72	3037	0.410	ng	# 73
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	11.32	61	1427	0.270	ng	94
31) n-Hexane	11.28	57	2267	0.095	ng	# 93
32) Chloroform	11.32	83	963	N.D.		
34) Tetrahydrofuran (THF)	11.79	72	1112	0.156	ng	# 66
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	12.15	62	175	N.D.		
38) 1,1,1-Trichloroethane	12.43	97	1889	0.094	ng	94
39) Isopropyl Acetate	13.30	61	21079	No Calib		
40) 1-Butanol	12.91	56	9100	No Calib	#	
41) Benzene	12.91	78	3946	N.D.		
42) Carbon Tetrachloride	13.07	117	950	N.D.		
43) Cyclohexane	13.21	84	409	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...	14.08	57	3378	N.D.		
50) Methyl Methacrylate	14.22	100	3918	0.856	ng	# 85

Data File : I:\MS09\DATA\2022 04\15\04152207.D
 Acq On : 15 Apr 2022 7:29
 Sample : P2201602-006dil (100mL)
 Misc : S35-04132201

Vial: 8
 Operator: WA
 Inst : MS09

Quant Time: Apr 17 18:39:35 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

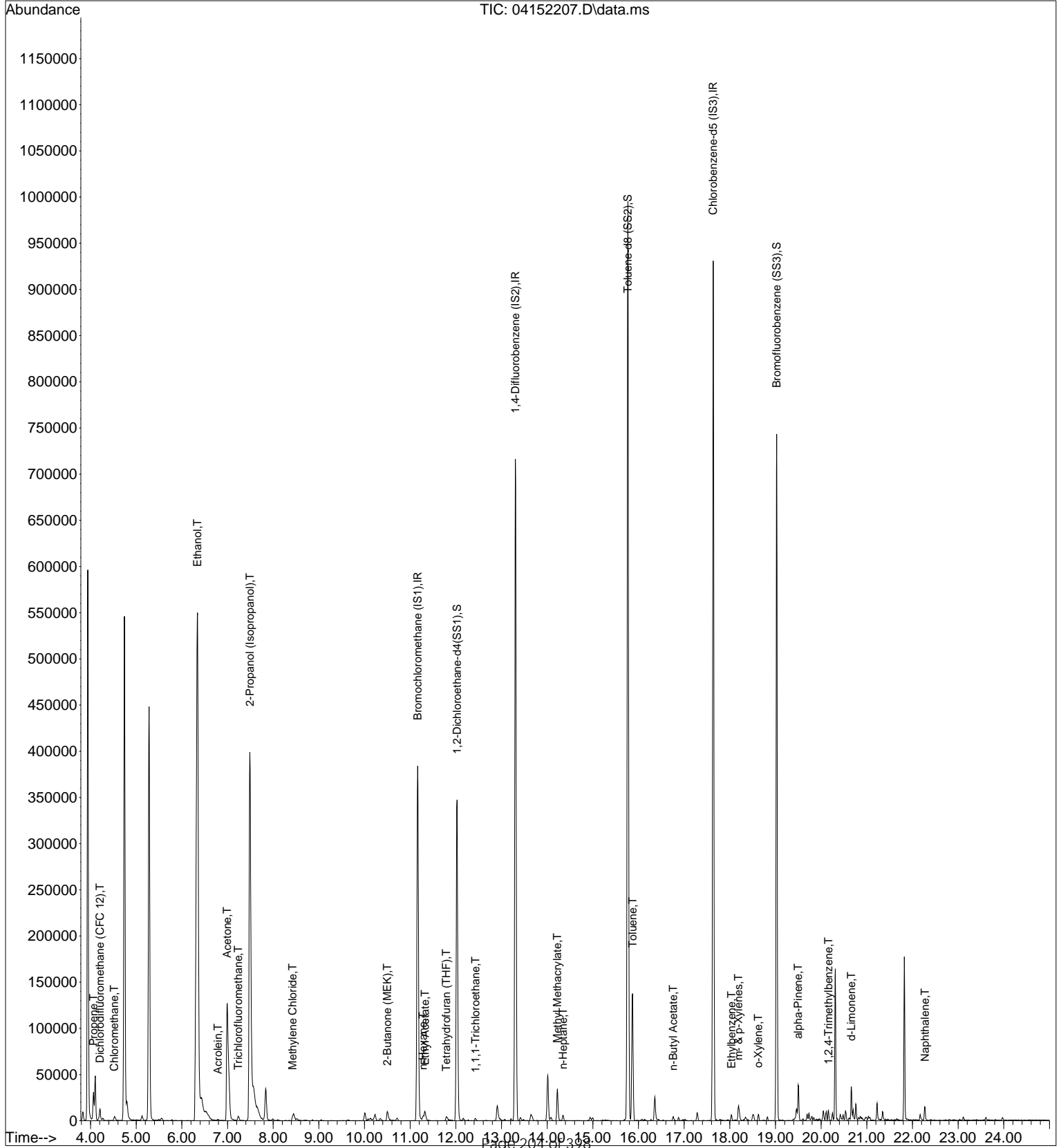
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.35	71	1087	0.091	ng	93
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	14.93	58	872	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.87	91	110289	2.227	ng	99
59) 2-Hexanone	16.14	43	1791	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.76	43	4545	0.109	ng	88
63) n-Octane	16.88	57	524	N.D.		
64) Tetrachloroethene	17.02	166	410	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	18.03	91	5487	0.097	ng	93
67) m- & p-Xylenes	18.19	91	12915	0.285	ng	99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.53	104	1834	N.D.		
70) o-Xylene	18.62	91	4187	0.092	ng	99
71) n-Nonane	18.82	43	1777	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	19.15	105	663	N.D.		
75) alpha-Pinene	19.50	93	12921	0.473	ng	94
76) n-Propylbenzene	19.61	91	2060	N.D.		
77) 3-Ethyltoluene	19.73	105	2560	No Calib		
78) 4-Ethyltoluene	19.73	105	2560	N.D.		
79) 1,3,5-Trimethylbenzene	19.80	105	2071	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.66	105	450	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.16	105	5532	0.113	ng	90
83) n-Decane	20.31	58	4655	No Calib	#	
84) Benzyl Chloride	20.28	91	837	N.D.		
85) 1,3-Dichlorobenzene	20.29	146	455	N.D.		
86) 1,4-Dichlorobenzene	20.36	146	708	N.D.		
87) sec-Butylbenzene	20.40	105	478	N.D.		
88) 4-Isopropyltoluene (p-...	20.53	119	3706	N.D.		
89) 1,2,3-Trimethylbenzene	20.40	105	478	No Calib	#	
90) 1,2-Dichlorobenzene	20.66	146	481	N.D.		
91) d-Limonene	20.66	68	7950	0.437	ng	93
92) 1,2-Dibromo-3-Chloropr...	21.04	157	506	N.D.		
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	22.17	180	2020	N.D.		
95) Naphthalene	22.28	128	8710	0.142	ng	96
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	22.59	225	197	N.D.		
98) Cyclohexanone	18.73	55	419	No Calib	#	
99) tert-Butylbenzene	20.16	119	767	N.D.		
100) n-Butylbenzene	20.90	91	1016	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\2022 04\15\04152207.D
Acq On : 15 Apr 2022 7:29
Sample : P2201602-006dil (100mL)
Misc : S35-04132201

Vial: 8
Operator: WA
Inst : MS09

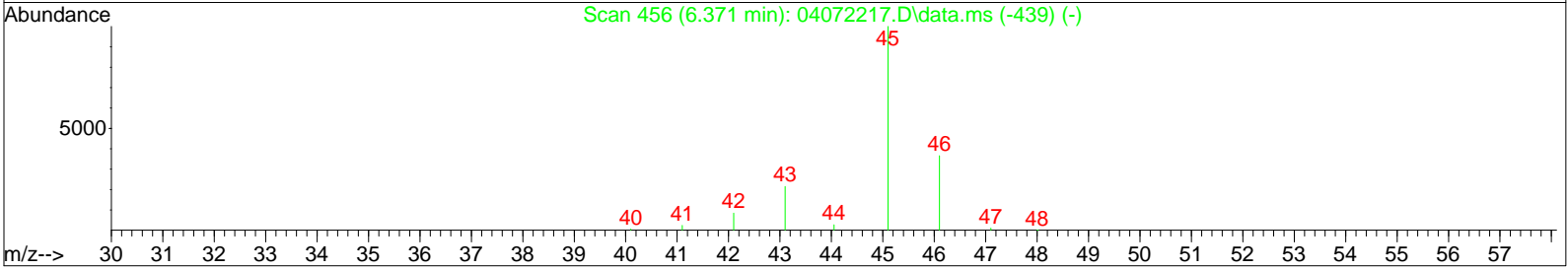
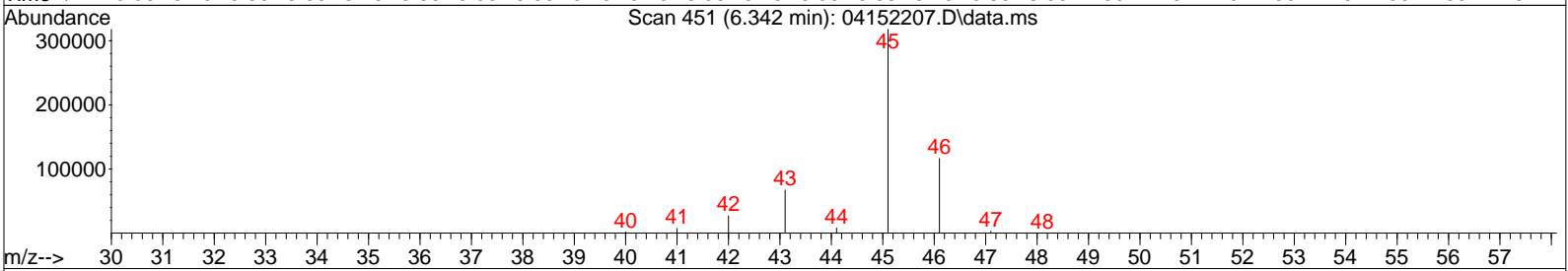
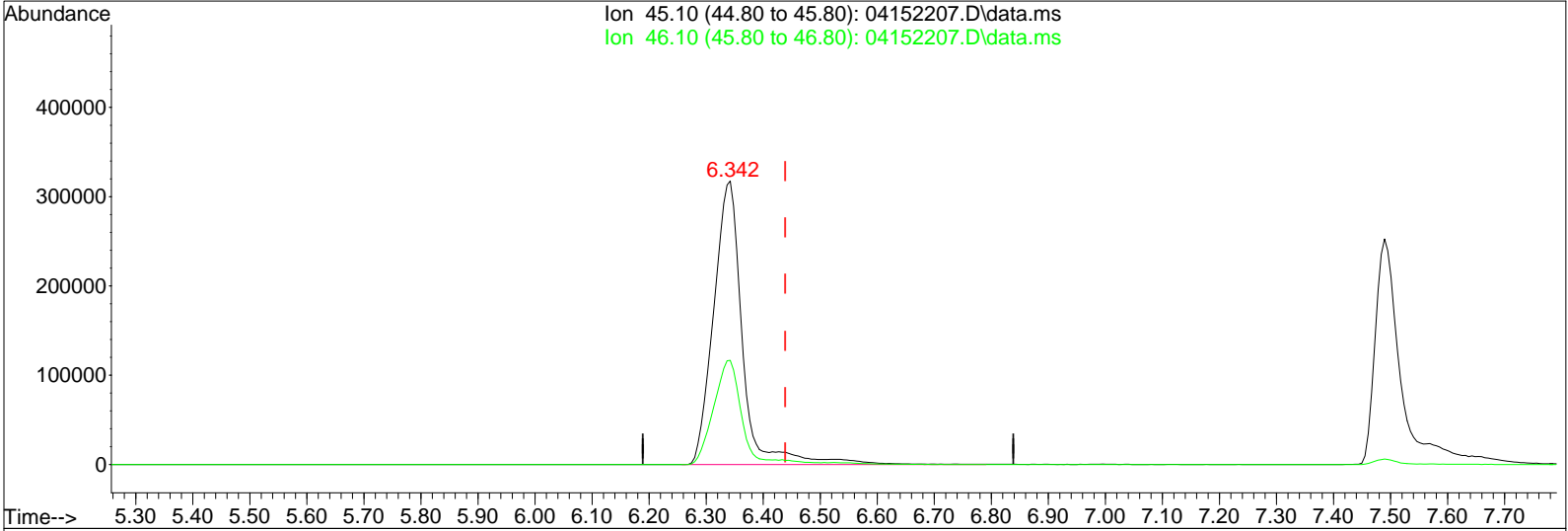
Quant Time: Apr 17 18:39:35 2022
Quant Method : I:\MS09\Methods\R9040722.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Apr 07 16:31:14 2022
Response via : Initial Calibration
DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2022 04\15\04152207.D
 Acq On : 15 Apr 2022 7:29
 Sample : P2201602-006dil (100mL)
 Misc : S35-04132201

Vial: 8
 Operator: WA
 Inst : MS09

Quant Time: Apr 15 09:01:29 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



TIC: 04152207.D\data.ms

(10) Ethanol (T)

6.342min (-0.097) 83.09ng

response 1119171

Ion	Exp%	Act%
45.10	100	100
46.10	36.70	36.70
0.00	0.00	0.00
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: NYS Department of Environmental Conservation

Client Sample ID: Building-2-SS2-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-007

Test Code: EPA TO-15

Date Collected: 4/7/22

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 4/8/22

Analyst: Simon Cao

Date Analyzed: 4/14/22

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC01564

Initial Pressure (psig): -1.85 Final Pressure (psig): 4.05

Canister Dilution Factor: 1.46

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	11	0.76	6.6	0.44	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.9	0.77	0.59	0.16	
74-87-3	Chloromethane	ND	0.31	ND	0.15	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.79	ND	0.11	
75-01-4	Vinyl Chloride	ND	0.16	ND	0.063	
106-99-0	1,3-Butadiene	ND	0.31	ND	0.14	
74-83-9	Bromomethane	ND	0.31	ND	0.079	
75-00-3	Chloroethane	ND	0.31	ND	0.12	
64-17-5	Ethanol	96	7.3	51	3.9	
75-05-8	Acetonitrile	ND	1.5	ND	0.87	
107-02-8	Acrolein	ND	1.5	ND	0.64	
67-64-1	Acetone	22	7.6	9.3	3.2	
75-69-4	Trichlorofluoromethane (CFC 11)	1.7	0.76	0.31	0.14	
67-63-0	2-Propanol (Isopropyl Alcohol)	59	1.5	24	0.59	
107-13-1	Acrylonitrile	ND	1.5	ND	0.67	
75-35-4	1,1-Dichloroethene	ND	0.16	ND	0.041	
75-09-2	Methylene Chloride	ND	0.76	ND	0.22	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.77	ND	0.25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.79	ND	0.10	
75-15-0	Carbon Disulfide	ND	1.6	ND	0.52	
156-60-5	trans-1,2-Dichloroethene	ND	0.16	ND	0.041	
75-34-3	1,1-Dichloroethane	ND	0.16	ND	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	0.77	ND	0.21	
108-05-4	Vinyl Acetate	ND	7.3	ND	2.1	
78-93-3	2-Butanone (MEK)	1.8	1.5	0.62	0.50	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3

Client: NYS Department of Environmental Conservation

Client Sample ID: Building-2-SS2-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC01564

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14/22

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.85 Final Pressure (psig): 4.05

Canister Dilution Factor: 1.46

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	0.53	0.16	0.13	0.041	
141-78-6	Ethyl Acetate	4.2	3.1	1.2	0.85	
110-54-3	n-Hexane	ND	0.77	ND	0.22	
67-66-3	Chloroform	0.59	0.16	0.12	0.033	
109-99-9	Tetrahydrofuran (THF)	ND	1.5	ND	0.50	
107-06-2	1,2-Dichloroethane	ND	0.16	ND	0.040	
71-55-6	1,1,1-Trichloroethane	0.90	0.16	0.17	0.029	
71-43-2	Benzene	0.31	0.16	0.096	0.050	
56-23-5	Carbon Tetrachloride	0.51	0.16	0.081	0.026	
110-82-7	Cyclohexane	ND	1.6	ND	0.47	
78-87-5	1,2-Dichloropropane	ND	0.16	ND	0.035	
75-27-4	Bromodichloromethane	ND	0.16	ND	0.024	
79-01-6	Trichloroethene	1.5	0.16	0.29	0.030	
123-91-1	1,4-Dioxane	ND	0.76	ND	0.21	
80-62-6	Methyl Methacrylate	1.7	1.6	0.41	0.39	
142-82-5	n-Heptane	ND	0.77	ND	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	0.77	ND	0.17	
108-10-1	4-Methyl-2-pentanone	ND	1.6	ND	0.39	
10061-02-6	trans-1,3-Dichloropropene	ND	0.74	ND	0.16	
79-00-5	1,1,2-Trichloroethane	ND	0.16	ND	0.029	
108-88-3	Toluene	6.1	0.76	1.6	0.20	
591-78-6	2-Hexanone	ND	1.6	ND	0.39	
124-48-1	Dibromochloromethane	ND	0.16	ND	0.019	
106-93-4	1,2-Dibromoethane	ND	0.16	ND	0.021	
123-86-4	n-Butyl Acetate	ND	1.6	ND	0.34	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3 of 3

Client: NYS Department of Environmental Conservation

Client Sample ID: Building-2-SS2-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-007

Test Code: EPA TO-15

Date Collected: 4/7/22

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 4/8/22

Analyst: Simon Cao

Date Analyzed: 4/14/22

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC01564

Initial Pressure (psig): -1.85 Final Pressure (psig): 4.05

Canister Dilution Factor: 1.46

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.77	ND	0.17	
127-18-4	Tetrachloroethene	48	0.16	7.1	0.024	
108-90-7	Chlorobenzene	ND	0.76	ND	0.16	
100-41-4	Ethylbenzene	ND	0.76	ND	0.17	
179601-23-1	m,p-Xylenes	1.8	1.6	0.41	0.37	
75-25-2	Bromoform	ND	0.76	ND	0.073	
100-42-5	Styrene	ND	0.76	ND	0.18	
95-47-6	o-Xylene	ND	0.76	ND	0.17	
111-84-2	n-Nonane	ND	0.76	ND	0.14	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	ND	0.023	
98-82-8	Cumene	ND	0.76	ND	0.15	
80-56-8	alpha-Pinene	0.98	0.79	0.18	0.14	
103-65-1	n-Propylbenzene	ND	0.77	ND	0.16	
622-96-8	4-Ethyltoluene	ND	0.77	ND	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND	0.76	ND	0.15	
95-63-6	1,2,4-Trimethylbenzene	ND	0.76	ND	0.15	
100-44-7	Benzyl Chloride	ND	1.6	ND	0.31	
541-73-1	1,3-Dichlorobenzene	ND	0.76	ND	0.13	
106-46-7	1,4-Dichlorobenzene	ND	0.76	ND	0.13	
95-50-1	1,2-Dichlorobenzene	ND	0.77	ND	0.13	
5989-27-5	d-Limonene	1.3	0.76	0.24	0.14	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.5	ND	0.15	
120-82-1	1,2,4-Trichlorobenzene	ND	1.5	ND	0.20	
91-20-3	Naphthalene	ND	0.76	ND	0.14	
87-68-3	Hexachlorobutadiene	ND	0.76	ND	0.071	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Data File : I:\MS09\DATA\2022 04\14\04142225.D
 Acq On : 14 Apr 2022 19:59
 Sample : P2201602-007 (1000mL)
 Misc : S35-04132201

Vial: 9
 Operator: SC
 Inst : MS09

Quant Time: Apr 15 01:39:55 2022

Quant Method : I:\MS09\Methods\R9040722.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

LH 4/15/22

QLast Update : Thu Apr 07 16:31:14 2022

Response via : Initial Calibration

DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	11.17	130	141728	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	13.31	114	627452	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.64	54	161961	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.03	65	279463	12.891	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery	=	103.12%	
57) Toluene-d8 (SS2)	15.77	98	738553	12.515	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	100.08%	
73) Bromofluorobenzene (SS3)	19.03	174	221680	10.666	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	85.36%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.04	42	151012	7.720	ng	92
3) Dichlorodifluoromethan...	4.20	85	53568	2.001	ng	99
4) Chloromethane	4.50	50	2450	0.110	ng	90
5) 1,2-Dichloro-1,1,2,2-t...	4.76	135	792	N.D.		
6) Vinyl Chloride	0.00	62	0	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	6.33	45	939518	65.851	ng	99
11) Acetonitrile	6.68	41	62	N.D.		
12) Acrolein	6.78	56	5600	0.640	ng	97
13) Acetone	6.98	58	169162	15.062	ng	100
14) Trichlorofluoromethane	7.23	101	29613	1.187	ng	99
15) 2-Propanol (Isopropanol)	7.49	45	1783520	40.175	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	8.42	84	4289	0.367	ng	94
20) 3-Chloro-1-propene (Al...	8.57	41	111	N.D.		
21) Trichlorotrifluoroethane	8.86	151	3734	0.350	ng	84
22) Carbon Disulfide	8.70	76	3368	N.D.		
23) trans-1,2-Dichloroethene	9.73	61	367	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	10.12	73	340	N.D.		
26) Vinyl Acetate	10.19	86	3871	1.917	ng	# 26
27) 2-Butanone (MEK)	10.49	72	9892	1.261	ng	# 85
28) cis-1,2-Dichloroethene	10.99	61	6813	0.365	ng	98
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	11.31	61	15989	2.853	ng	97
31) n-Hexane	11.28	57	6024	0.239	ng	99
32) Chloroform	11.33	83	8799	0.402	ng	96
34) Tetrahydrofuran (THF)	11.78	72	4285	0.569	ng	# 90
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	12.15	62	543	N.D.		
38) 1,1,1-Trichloroethane	12.43	97	13258	0.617	ng	99
39) Isopropyl Acetate	13.31	61	22602	No Calib		
40) 1-Butanol	12.89	56	39066	No Calib	#	
41) Benzene	12.91	78	10269	0.211	ng	99
42) Carbon Tetrachloride	13.07	117	6526	0.349	ng	96
43) Cyclohexane	13.21	84	2296	0.123	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	13.96	83	275	N.D.		
47) Trichloroethene	14.01	130	14674	1.060	ng	84
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	14.22	100	5591	1.149	ng	93

Data File : I:\MS09\DATA\2022 04\14\04142225.D
 Acq On : 14 Apr 2022 19:59
 Sample : P2201602-007 (1000mL)
 Misc : S35-04132201

Vial: 9
 Operator: SC
 Inst : MS09

Quant Time: Apr 15 01:39:55 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

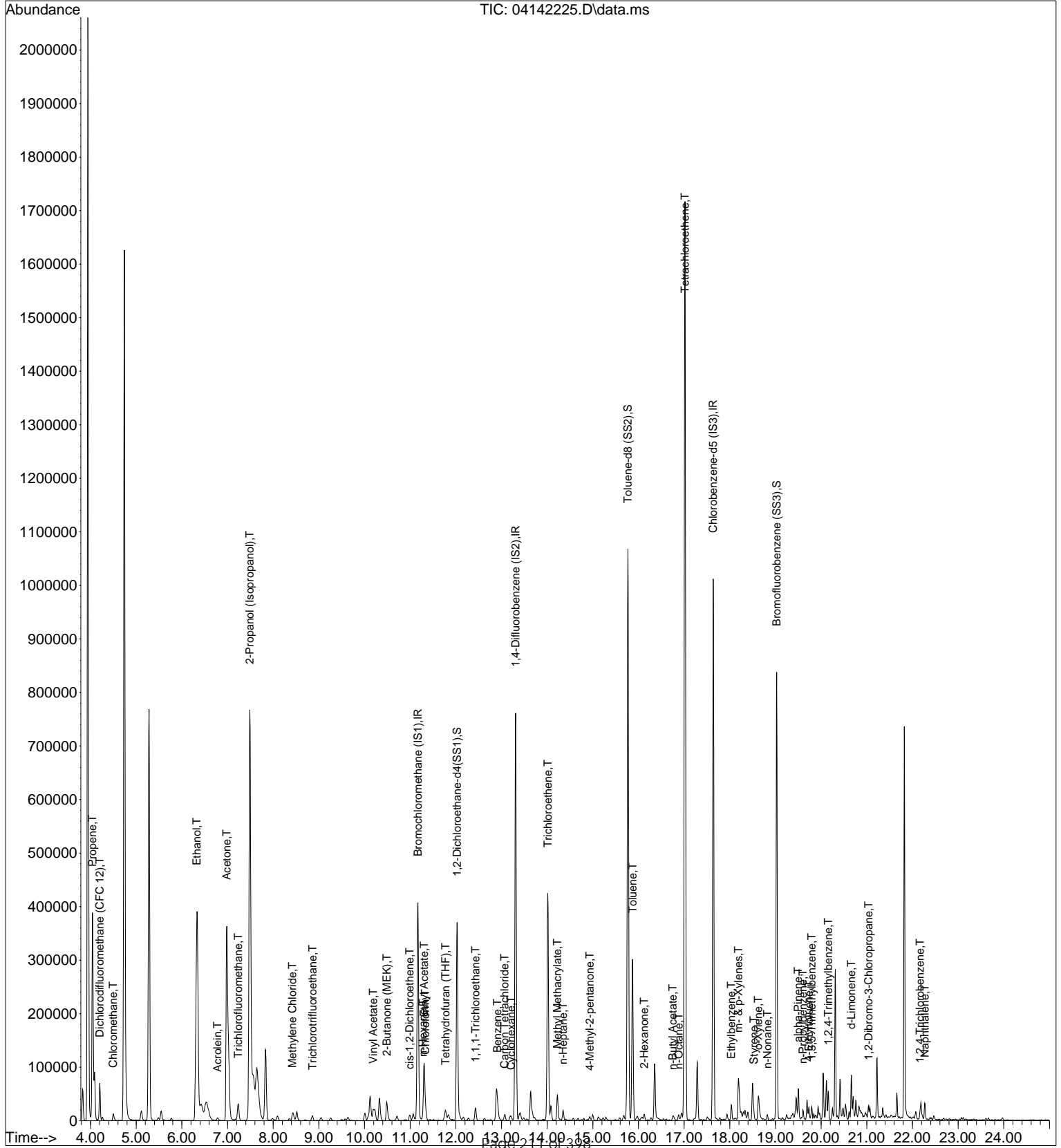
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.35	71	3664	0.289	ng	97
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	14.93	58	1895	0.138	ng #	29
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.87	91	227241	4.187	ng	99
59) 2-Hexanone	16.13	43	9306	0.223	ng	87
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.75	43	8230	0.181	ng	96
63) n-Octane	16.88	57	1854	0.136	ng	87
64) Tetrachloroethene	17.02	166	506690	32.784	ng	100
65) Chlorobenzene	17.67	112	104	N.D.		
66) Ethylbenzene	18.03	91	21718	0.352	ng	97
67) m- & p-Xylenes	18.19	91	61051	1.230	ng	100
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.53	104	4599	0.130	ng	90
70) o-Xylene	18.62	91	20629	0.412	ng	100
71) n-Nonane	18.82	43	4383	0.114	ng	87
72) 1,1,2,2-Tetrachloroethane	18.60	83	578	N.D.		
74) Cumene	19.15	105	1915	N.D.		
75) alpha-Pinene	19.50	93	20140	0.673	ng	99
76) n-Propylbenzene	19.60	91	7780	0.103	ng	82
77) 3-Ethyltoluene	19.73	105	8904	No Calib		
78) 4-Ethyltoluene	19.73	105	8904	0.146	ng	98
79) 1,3,5-Trimethylbenzene	19.79	105	8465	0.163	ng	99
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.66	105	1099	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.16	105	25483	0.476	ng	87
83) n-Decane	20.48	58	639	No Calib	#	
84) Benzyl Chloride	20.28	91	2610	N.D.		
85) 1,3-Dichlorobenzene	20.30	146	281	N.D.		
86) 1,4-Dichlorobenzene	20.35	146	891	N.D.		
87) sec-Butylbenzene	20.41	105	1023	N.D.		
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D. d		
89) 1,2,3-Trimethylbenzene	20.41	105	1023	No Calib	#	
90) 1,2-Dichlorobenzene	20.65	146	804	N.D.		
91) d-Limonene	20.66	68	18243	0.916	ng	95
92) 1,2-Dibromo-3-Chloropr...	21.04	157	2006	0.178	ng #	40
93) n-Undecane	21.34	58	199	No Calib	#	
94) 1,2,4-Trichlorobenzene	22.17	180	3771	0.152	ng	98
95) Naphthalene	22.27	128	17122	0.254	ng	97
96) n-Dodecane	22.18	58	150	No Calib	#	
97) Hexachlorobutadiene	22.59	225	139	N.D.		
98) Cyclohexanone	18.65	55	2104	No Calib	#	
99) tert-Butylbenzene	20.16	119	3073	N.D.		
100) n-Butylbenzene	20.90	91	3047	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\2022 04\14\04142225.D
 Acq On : 14 Apr 2022 19:59
 Sample : P2201602-007 (1000mL)
 Misc : S35-04132201

Vial: 9
 Operator: SC
 Inst : MS09

Quant Time: Apr 15 01:39:55 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2022 04\14\04142225.D
 Acq On : 14 Apr 2022 19:59
 Sample : P2201602-007 (1000mL)
 Misc : S35-04132201

Vial: 9
 Operator: SC
 Inst : MS09

Quant Time: Apr 15 01:39:55 2022

LH 4/15/22

Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	11.17	130	141728	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	13.31	114	627452	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.64	54	161961	12.500	ng	0.00

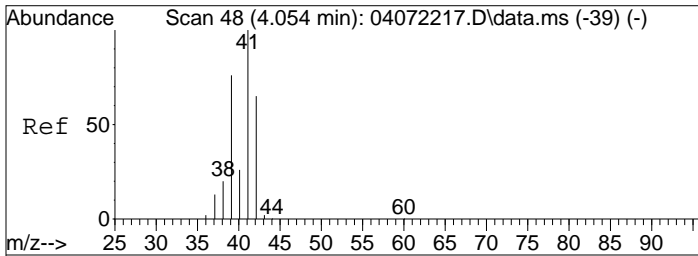
System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.03	65	279463	12.891	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery	=	103.12%	
57) Toluene-d8 (SS2)	15.77	98	738553	12.515	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	100.08%	
73) Bromofluorobenzene (SS3)	19.03	174	221680	10.666	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	85.36%	

Target Compounds

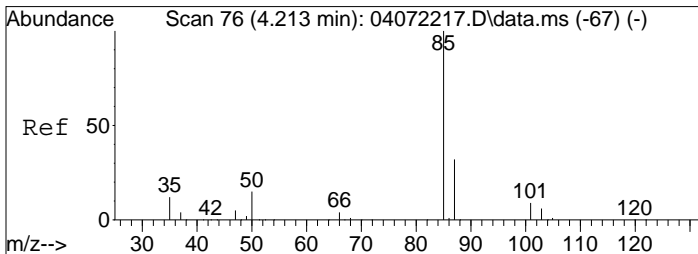
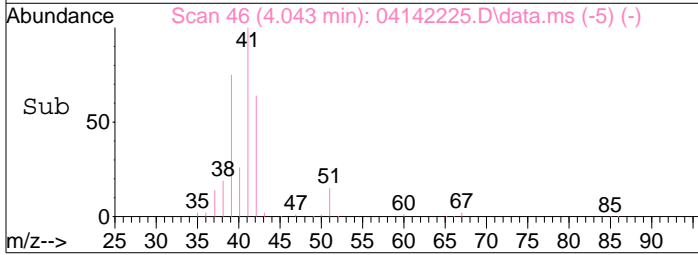
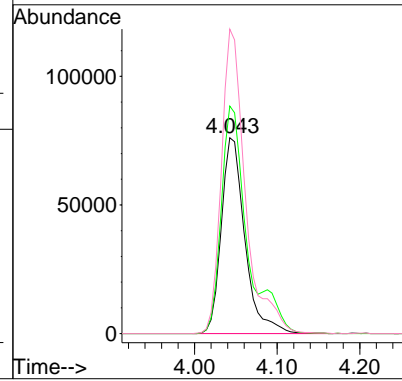
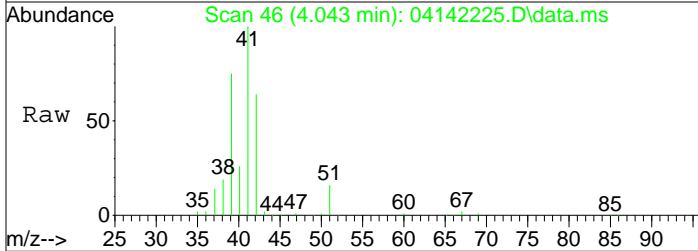
	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.04	42	151012	7.720	ng	92
3) Dichlorodifluoromethan...	4.20	85	53568	2.001	ng	99
4) Chloromethane	4.50	50	2450	0.110	ng	90
10) Ethanol	6.33	45	939518	65.851	ng	99
12) Acrolein	6.78	56	5600	0.640	ng	97
13) Acetone	6.98	58	169162	15.062	ng	100
14) Trichlorofluoromethane	7.23	101	29613	1.187	ng	99
15) 2-Propanol (Isopropanol)	7.49	45	1783520	40.175	ng	100
19) Methylene Chloride	8.42	84	4289	0.367	ng	94
21) Trichlorotrifluoroethane	8.86	151	3734	0.350	ng	84
26) Vinyl Acetate	10.19	86	3871	1.917	ng	# 26
27) 2-Butanone (MEK)	10.49	72	9892	1.261	ng	# 85
28) cis-1,2-Dichloroethene	10.99	61	6813	0.365	ng	98
30) Ethyl Acetate	11.31	61	15989	2.853	ng	97
31) n-Hexane	11.28	57	6024	0.239	ng	99
32) Chloroform	11.33	83	8799	0.402	ng	96
34) Tetrahydrofuran (THF)	11.78	72	4285	0.569	ng	# 90
38) 1,1,1-Trichloroethane	12.43	97	13258	0.617	ng	99
41) Benzene	12.91	78	10269	0.211	ng	99
42) Carbon Tetrachloride	13.07	117	6526	0.349	ng	96
43) Cyclohexane	13.21	84	2296	0.123	ng	98
47) Trichloroethene	14.01	130	14674	1.060	ng	84
50) Methyl Methacrylate	14.22	100	5591	1.149	ng	93
51) n-Heptane	14.35	71	3664	0.289	ng	97
53) 4-Methyl-2-pentanone	14.93	58	1895	0.138	ng	# 29
58) Toluene	15.87	91	227241	4.187	ng	99
59) 2-Hexanone	16.13	43	9306	0.223	ng	87
62) n-Butyl Acetate	16.75	43	8230	0.181	ng	96
63) n-Octane	16.88	57	1854	0.136	ng	87
64) Tetrachloroethene	17.02	166	506690	32.784	ng	100
66) Ethylbenzene	18.03	91	21718	0.352	ng	97
67) m- & p-Xylenes	18.19	91	61051	1.230	ng	100
69) Styrene	18.53	104	4599	0.130	ng	90
70) o-Xylene	18.62	91	20629	0.412	ng	100
71) n-Nonane	18.82	43	4383	0.114	ng	87
75) alpha-Pinene	19.50	93	20140	0.673	ng	99
76) n-Propylbenzene	19.60	91	7780	0.103	ng	82
78) 4-Ethyltoluene	19.73	105	8904	0.146	ng	98
79) 1,3,5-Trimethylbenzene	19.79	105	8465	0.163	ng	99
82) 1,2,4-Trimethylbenzene	20.16	105	25483	0.476	ng	87
91) d-Limonene	20.66	68	18243	0.916	ng	95
92) 1,2-Dibromo-3-Chloropr...	21.04	157	2006	0.178	ng	# 40
94) 1,2,4-Trichlorobenzene	22.17	180	3771	0.152	ng	98
95) Naphthalene	22.27	128	17122	0.254	ng	97

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



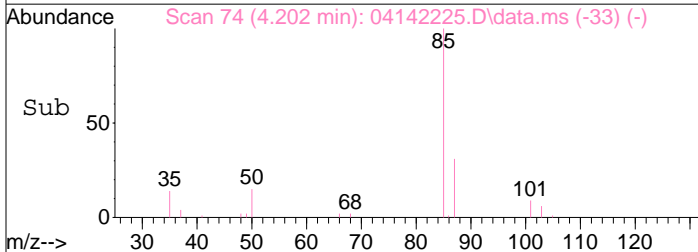
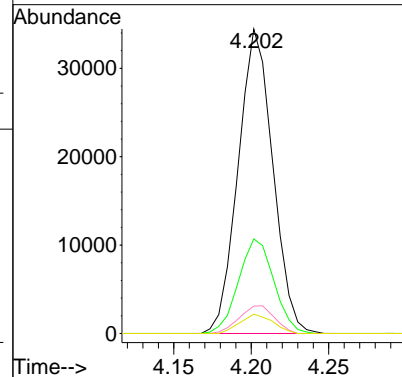
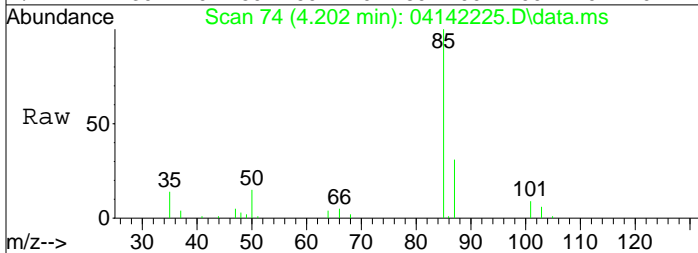
#2
 Propene
 Concen: 7.72 ng
 RT: 4.04 min Scan# 46
 Delta R.T. -0.017 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

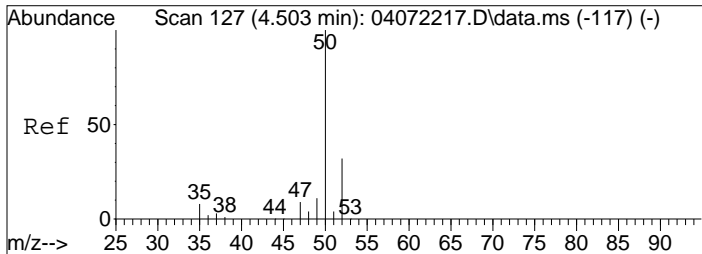
Tgt Ion	Resp	Lower	Upper
42	151012		
42	100		
39	128.3	96.7	136.7
41	159.7	132.4	172.4



#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 2.00 ng
 RT: 4.20 min Scan# 74
 Delta R.T. -0.017 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

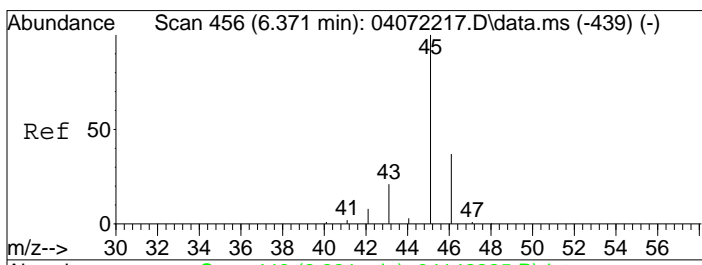
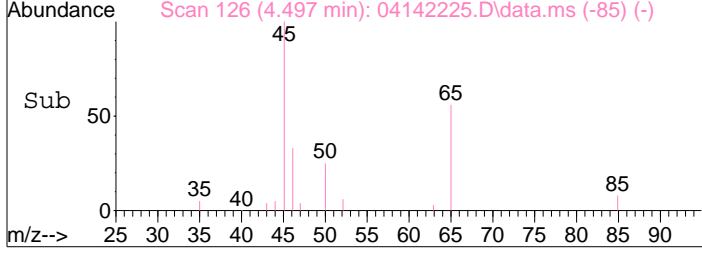
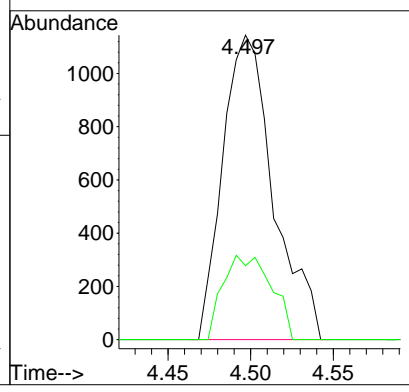
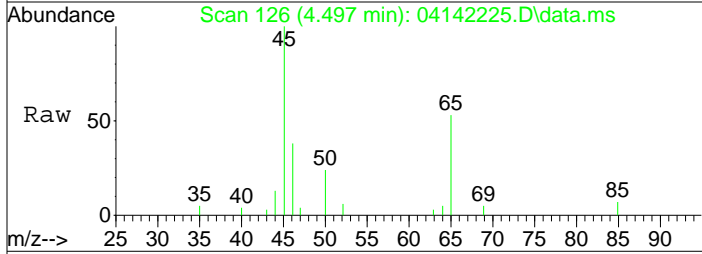
Tgt Ion	Resp	Lower	Upper
85	53568		
85	100		
87	31.7	12.2	52.2
101	9.2	0.0	29.3
103	6.0	0.0	26.0





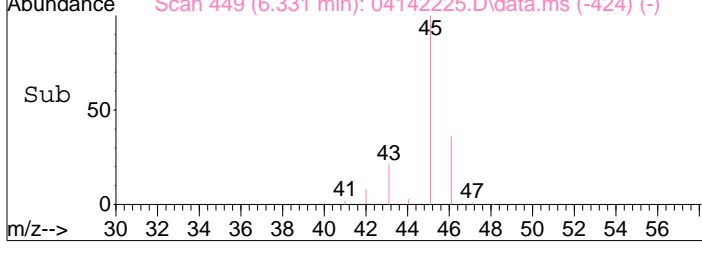
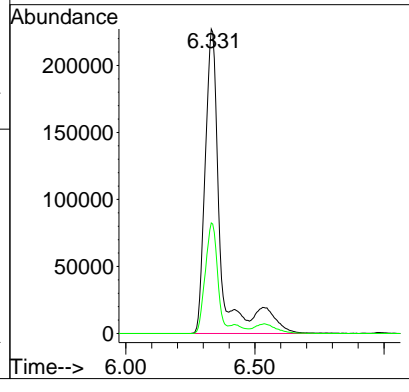
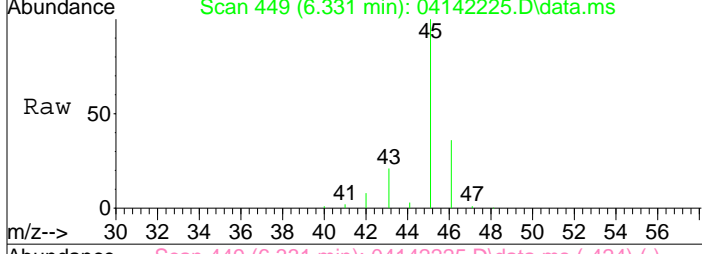
#4
 Chloromethane
 Concen: 0.11 ng
 RT: 4.50 min Scan# 126
 Delta R.T. -0.017 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

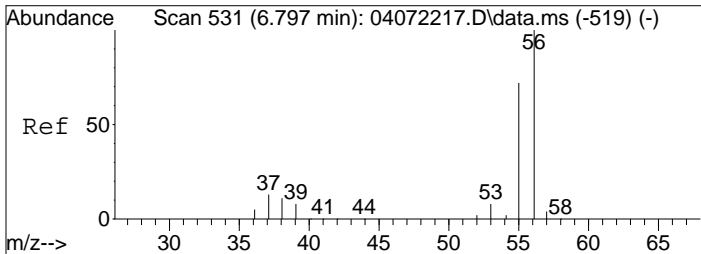
Tgt Ion	Resp	Lower	Upper
50	100		
52	26.4	11.8	51.8



#10
 Ethanol
 Concen: 65.85 ng
 RT: 6.33 min Scan# 449
 Delta R.T. -0.108 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

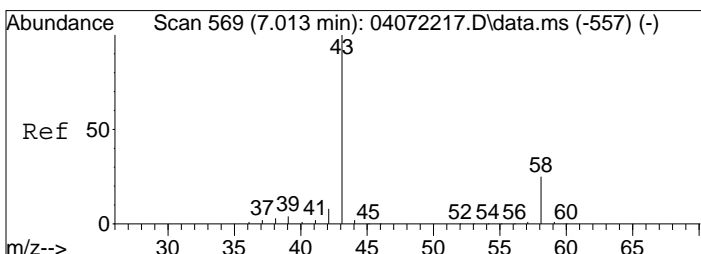
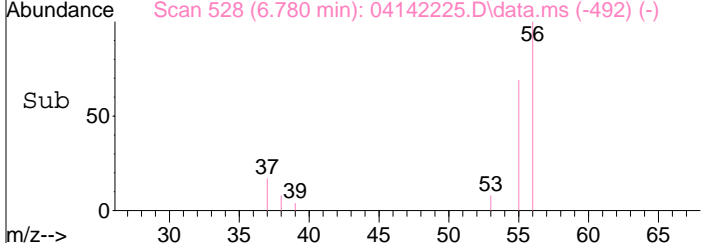
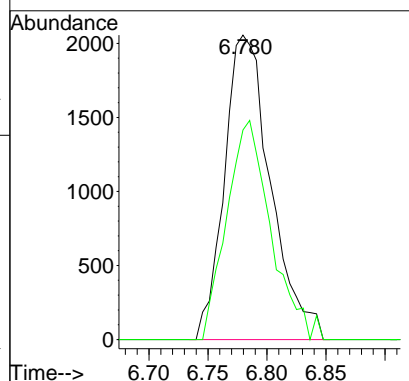
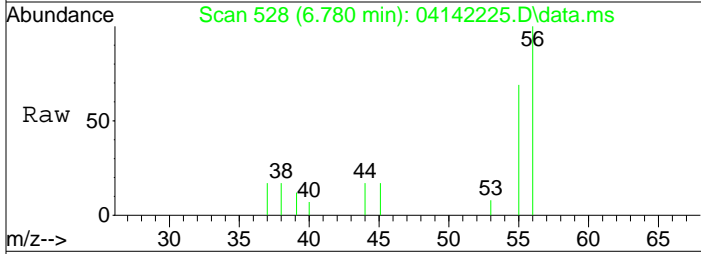
Tgt Ion	Resp	Lower	Upper
45	100		
46	36.2	16.7	56.7





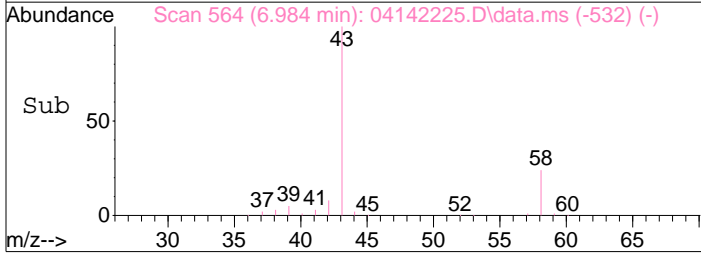
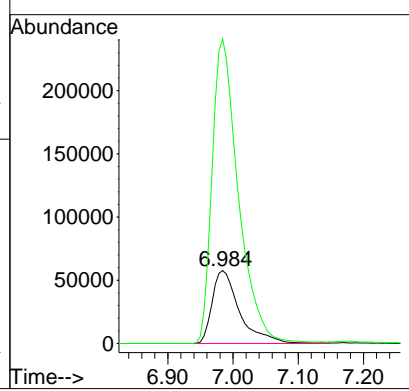
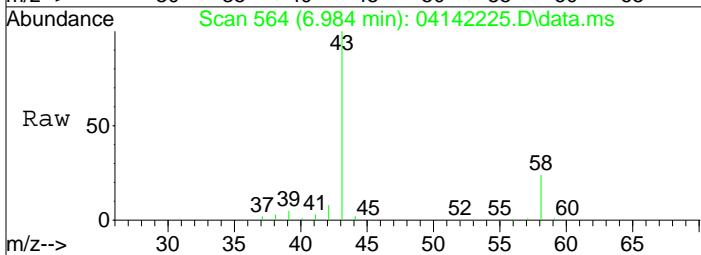
#12
 Acrolein
 Concen: 0.64 ng
 RT: 6.78 min Scan# 528
 Delta R.T. -0.046 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

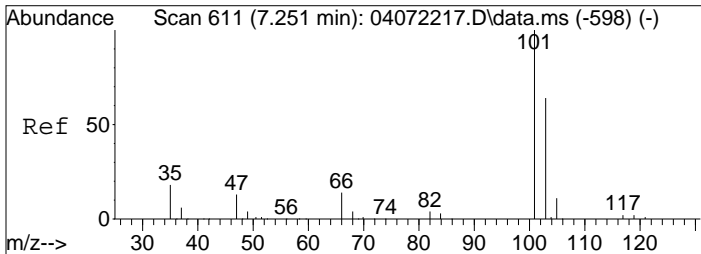
Tgt Ion:	Resp:	Lower	Upper
56	100		
55	68.7	51.3	91.3



#13
 Acetone
 Concen: 15.06 ng
 RT: 6.98 min Scan# 564
 Delta R.T. -0.068 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

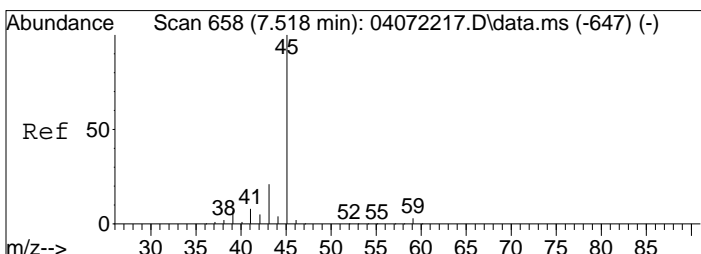
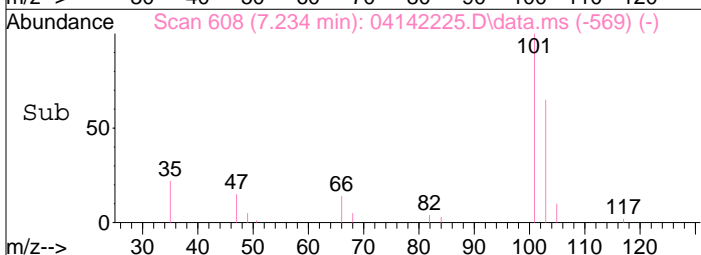
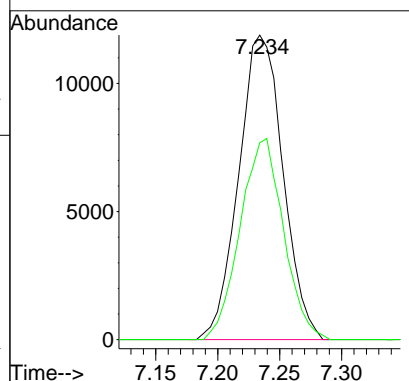
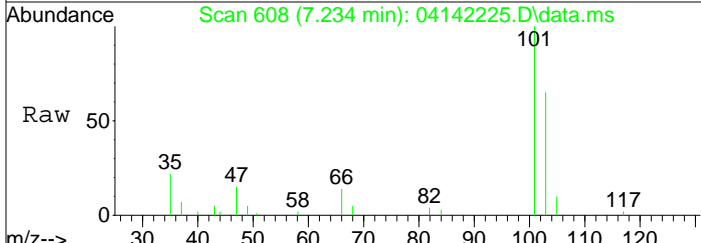
Tgt Ion:	Resp:	Lower	Upper
58	100		
43	399.6	370.7	430.7





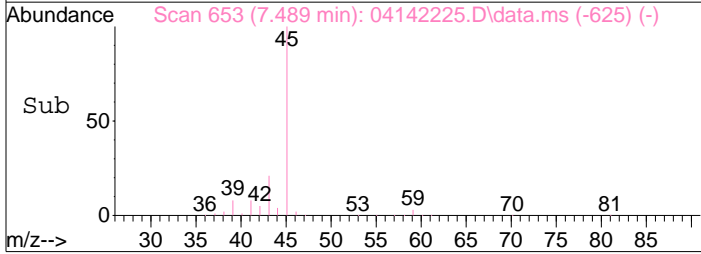
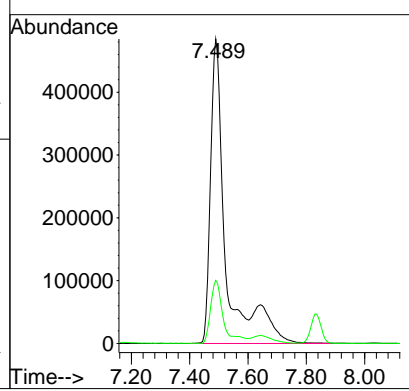
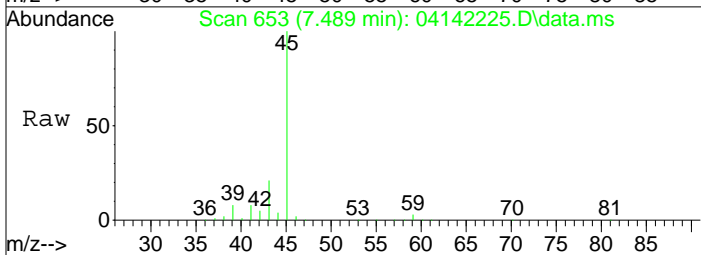
#14
 Trichlorofluoromethane
 Concen: 1.19 ng
 RT: 7.23 min Scan# 608
 Delta R.T. -0.029 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

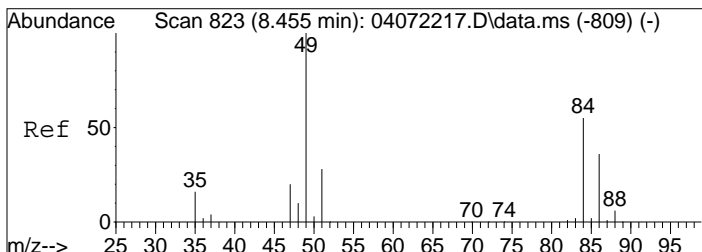
Tgt Ion	Resp	Lower	Upper
101	29613		
103	64.6	43.8	83.8



#15
 2-Propanol (Isopropanol)
 Concen: 40.18 ng
 RT: 7.49 min Scan# 653
 Delta R.T. -0.091 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

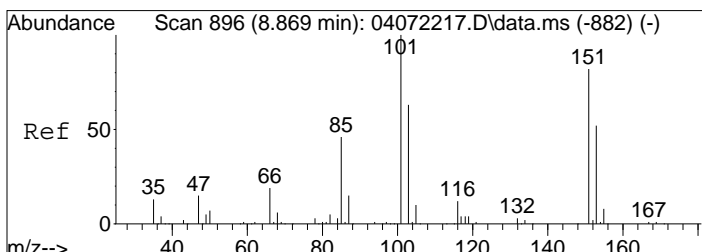
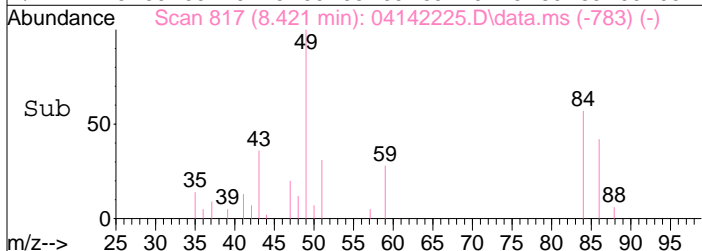
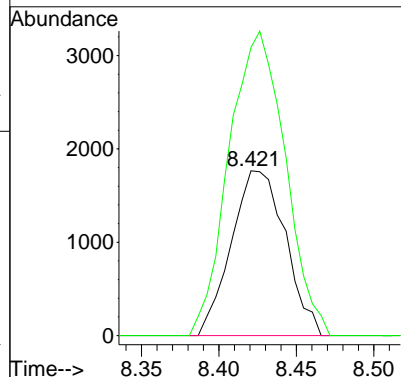
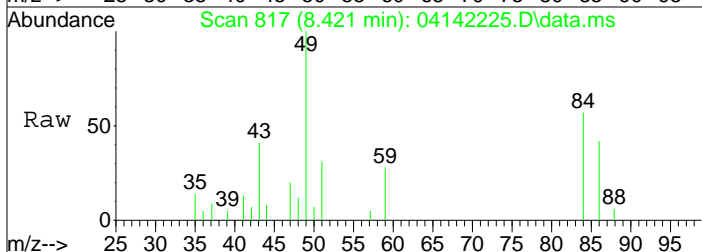
Tgt Ion	Resp	Lower	Upper
45	1783520		
43	20.6	0.6	40.6





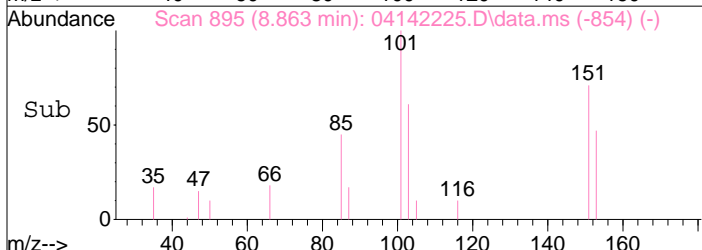
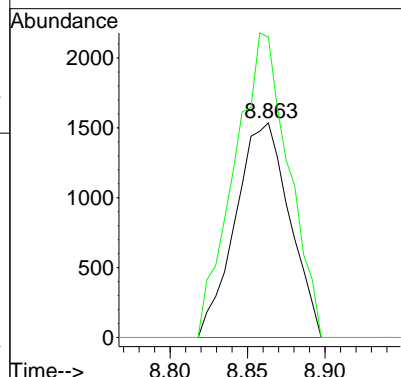
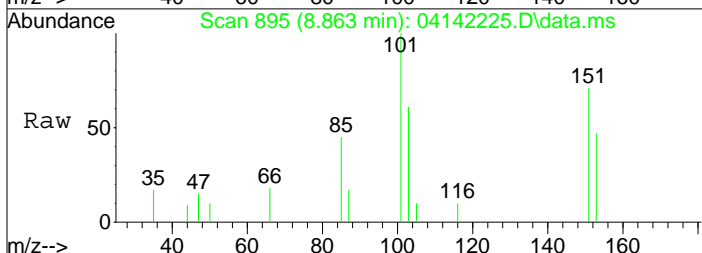
#19
 Methylene Chloride
 Concen: 0.37 ng
 RT: 8.42 min Scan# 817
 Delta R.T. -0.057 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

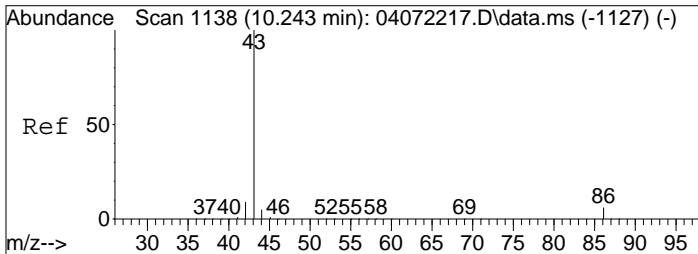
Tgt Ion: 84 Resp: 4289
 Ion Ratio Lower Upper
 84 100
 49 192.1 159.1 209.1



#21
 Trichlorotrifluoroethane
 Concen: 0.35 ng
 RT: 8.86 min Scan# 895
 Delta R.T. -0.017 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

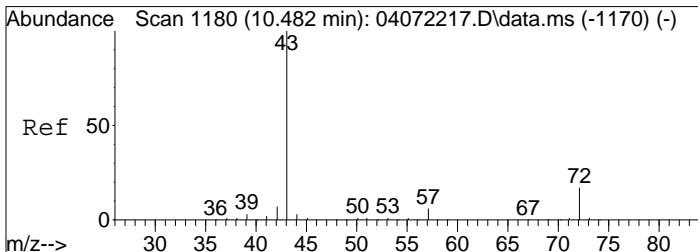
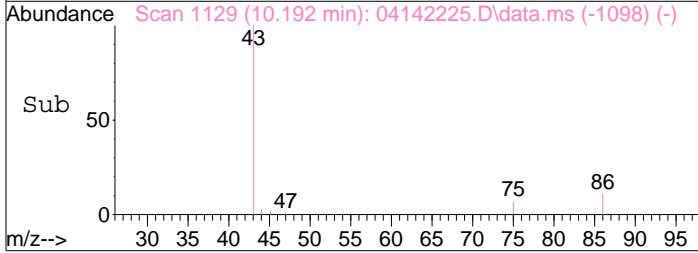
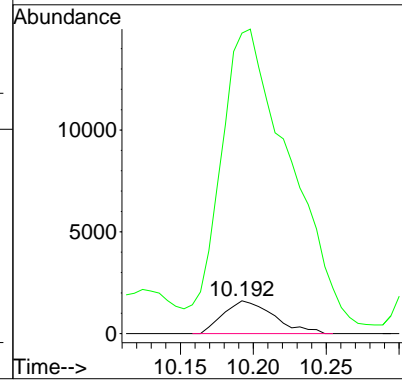
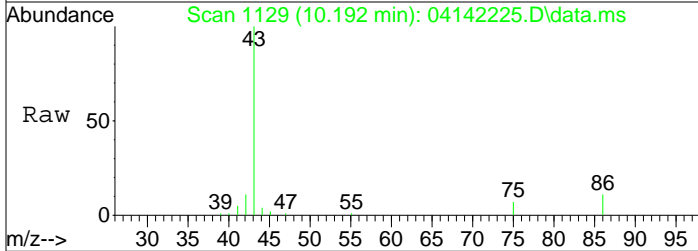
Tgt Ion: 151 Resp: 3734
 Ion Ratio Lower Upper
 151 100
 101 142.1 103.7 143.7





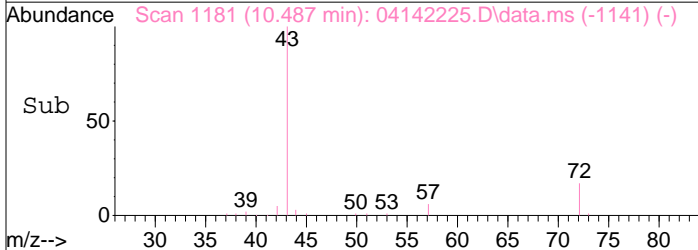
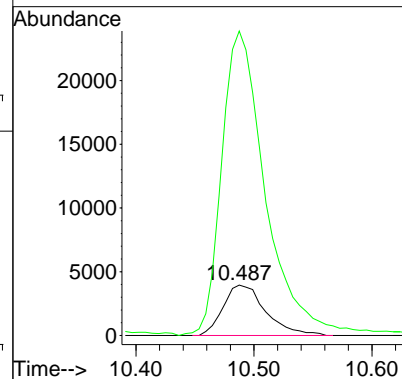
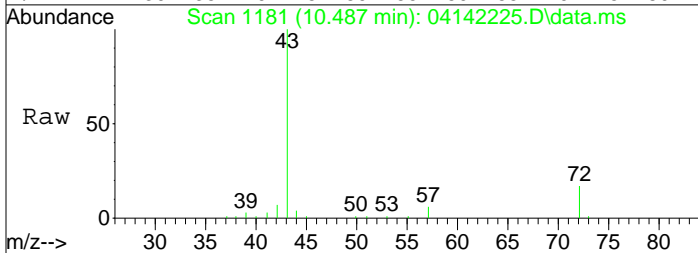
#26
 Vinyl Acetate
 Concen: 1.92 ng
 RT: 10.19 min Scan# 1129
 Delta R.T. -0.074 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

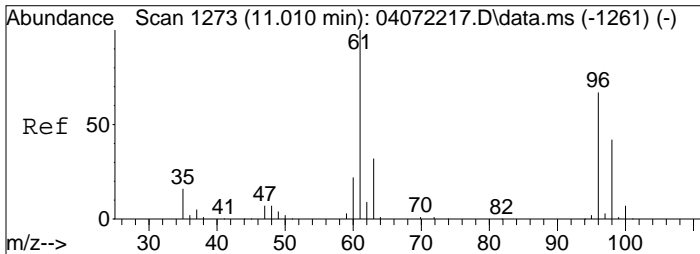
Tgt Ion: 86 Resp: 3871
 Ion Ratio Lower Upper
 86 100
 43 1223.3 1690.9 1730.9#



#27
 2-Butanone (MEK)
 Concen: 1.26 ng
 RT: 10.49 min Scan# 1181
 Delta R.T. -0.023 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

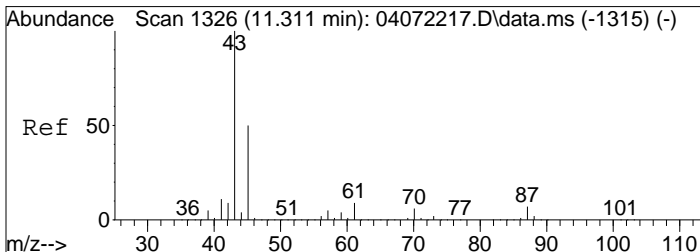
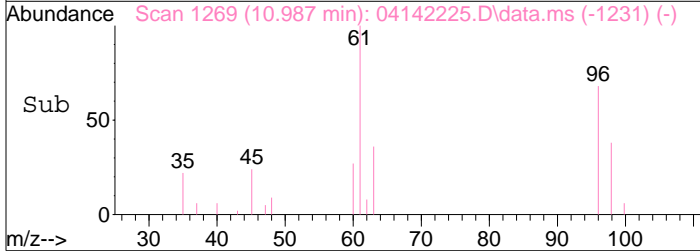
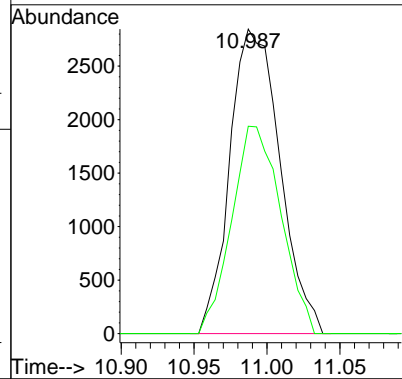
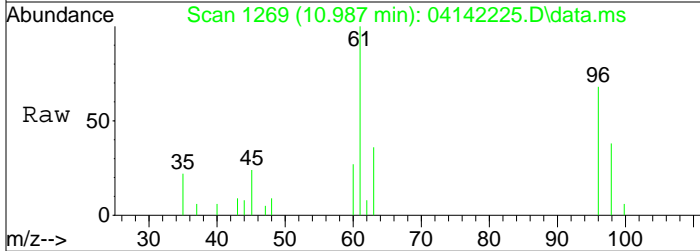
Tgt Ion: 72 Resp: 9892
 Ion Ratio Lower Upper
 72 100
 43 630.9 565.1 605.1#





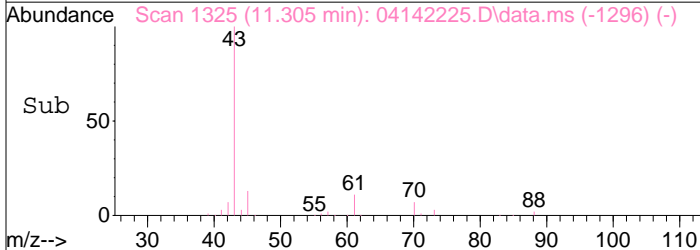
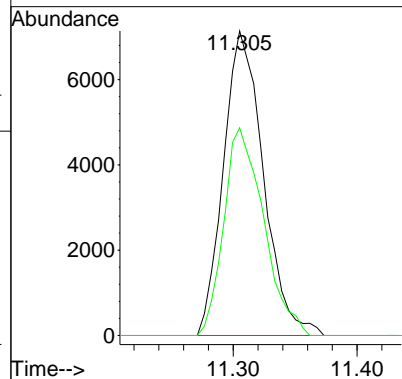
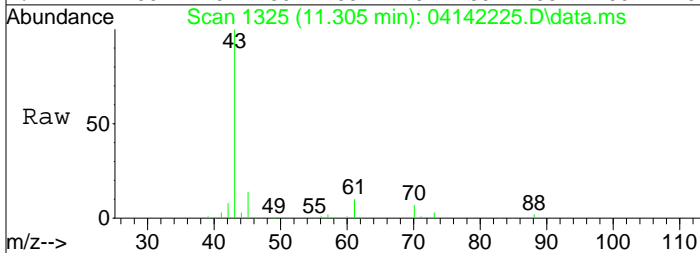
#28
 cis-1,2-Dichloroethene
 Concen: 0.37 ng
 RT: 10.99 min Scan# 1269
 Delta R.T. -0.034 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

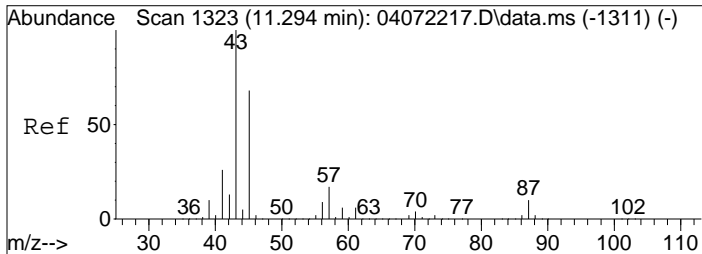
Tgt Ion	Resp	Lower	Upper
61	6813		
96	66.8	48.2	88.2



#30
 Ethyl Acetate
 Concen: 2.85 ng
 RT: 11.31 min Scan# 1325
 Delta R.T. -0.034 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

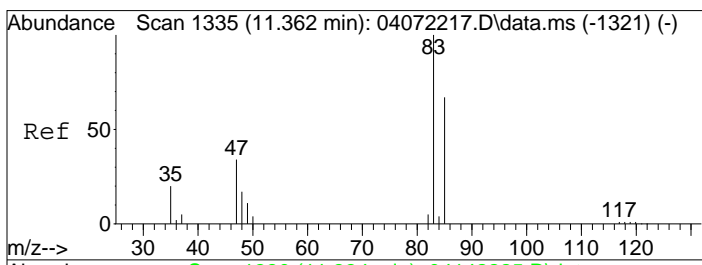
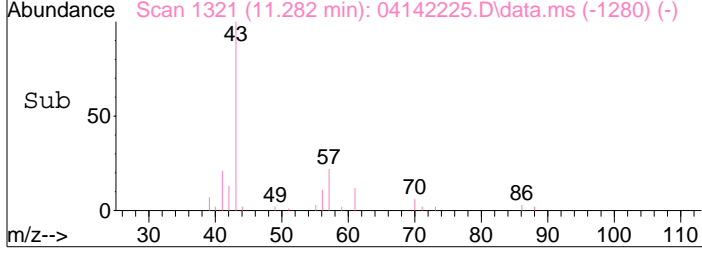
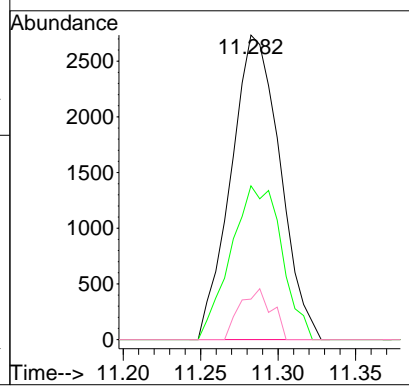
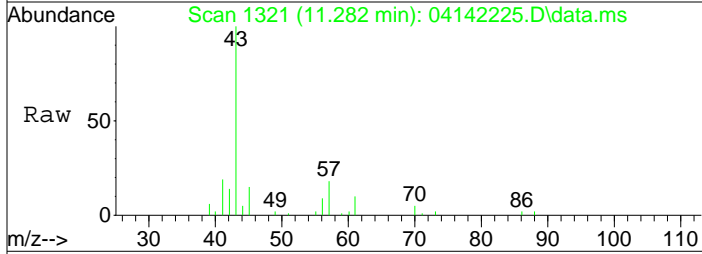
Tgt Ion	Resp	Lower	Upper
61	15989		
70	68.1	50.8	90.8





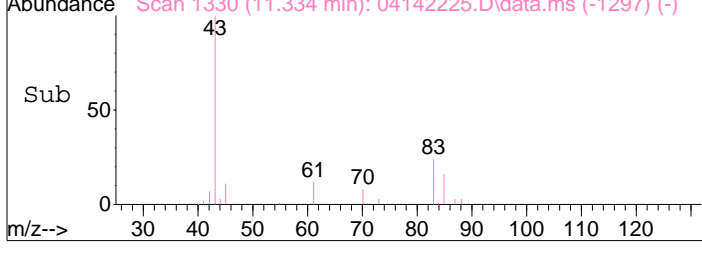
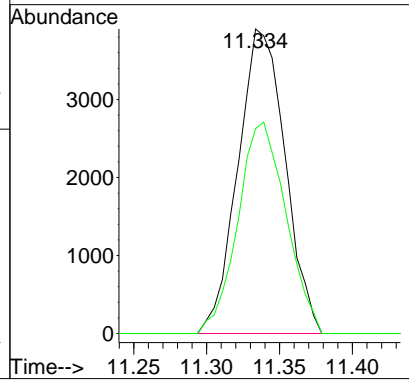
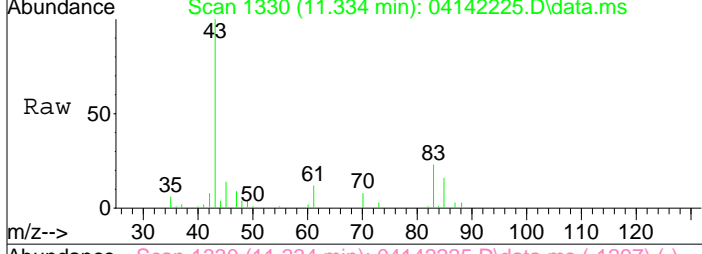
#31
 n-Hexane
 Concen: 0.24 ng
 RT: 11.28 min Scan# 1321
 Delta R.T. -0.017 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

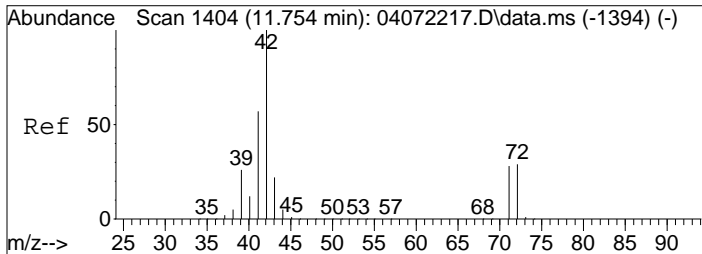
Tgt Ion:	Resp:	Lower	Upper
57	100		
56	52.2	41.4	62.2
86	10.8	9.9	14.9



#32
 Chloroform
 Concen: 0.40 ng
 RT: 11.33 min Scan# 1330
 Delta R.T. -0.063 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

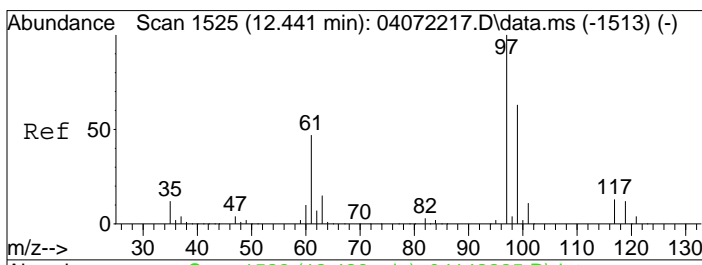
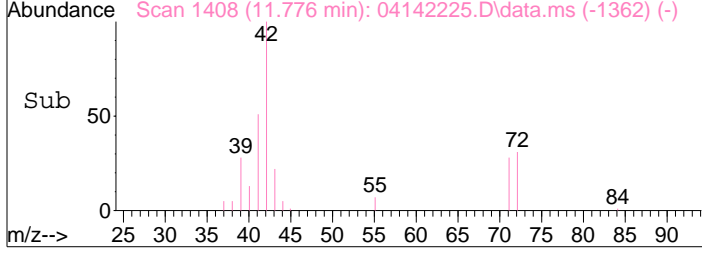
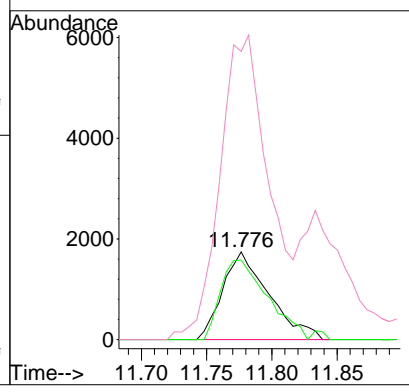
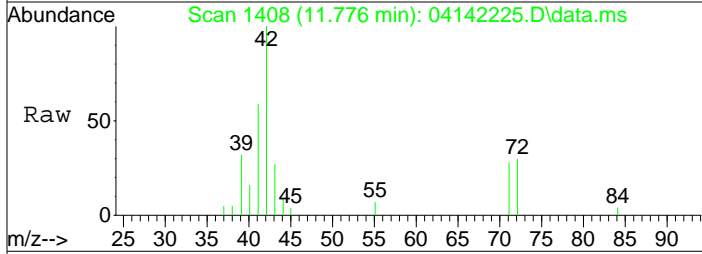
Tgt Ion:	Resp:	Lower	Upper
83	100		
85	70.6	47.1	87.1





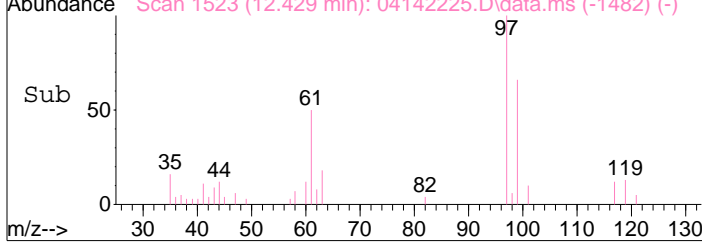
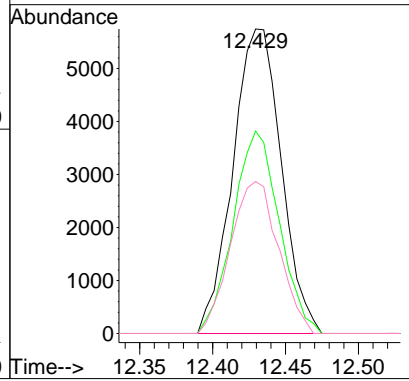
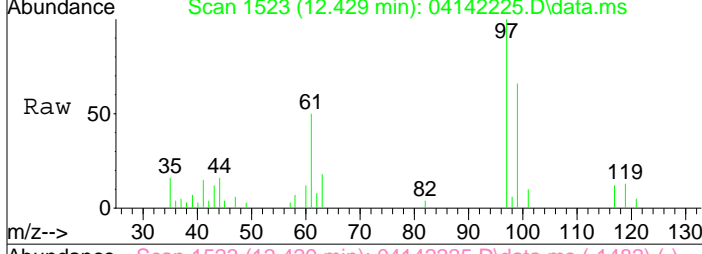
#34
 Tetrahydrofuran (THF)
 Concen: 0.57 ng
 RT: 11.78 min Scan# 1408
 Delta R.T. 0.011 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

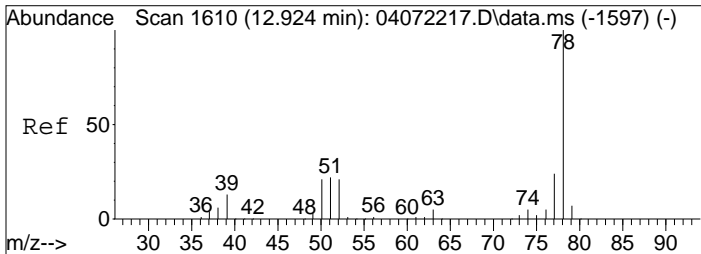
Tgt Ion:	Resp:	Lower	Upper
72	4285		
71	92.0	77.0	117.0
42	368.2	325.1	365.1#



#38
 1,1,1-Trichloroethane
 Concen: 0.62 ng
 RT: 12.43 min Scan# 1523
 Delta R.T. -0.017 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

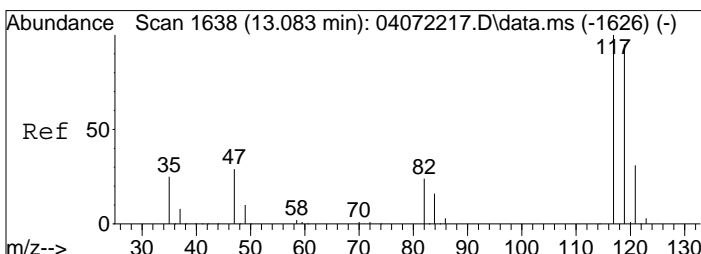
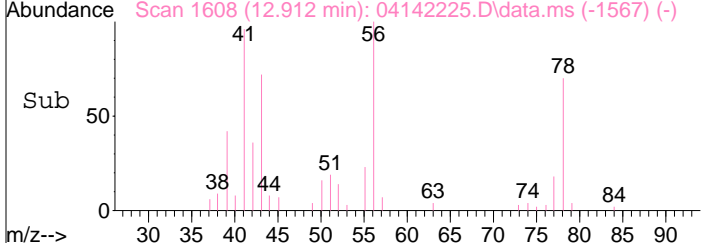
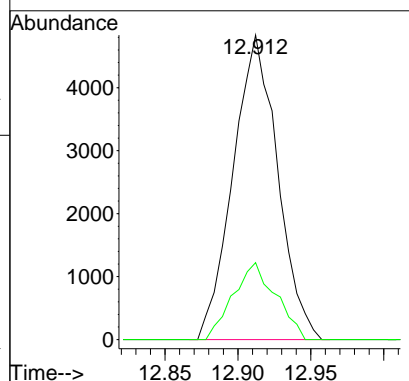
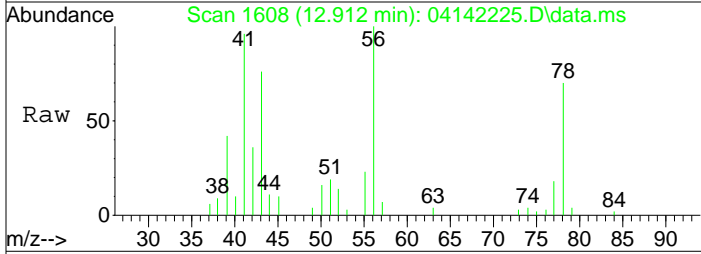
Tgt Ion:	Resp:	Lower	Upper
97	13258		
99	63.2	43.5	83.5
61	49.6	27.7	67.7





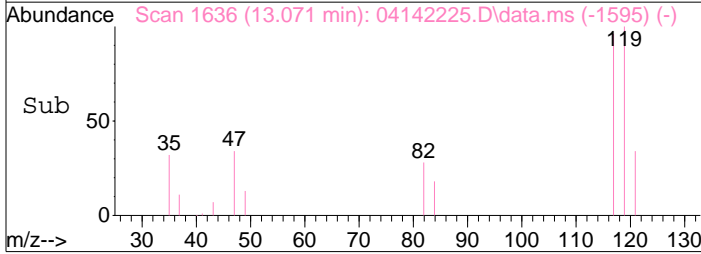
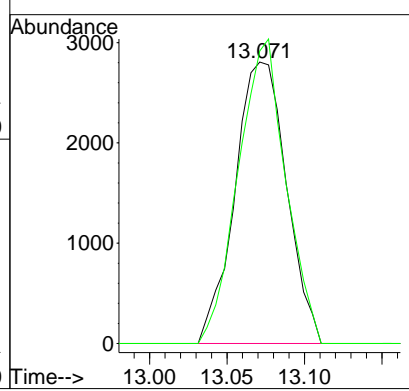
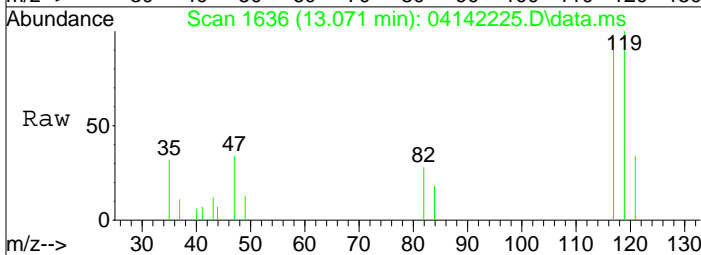
#41
Benzene
Concen: 0.21 ng
RT: 12.91 min Scan# 1608
Delta R.T. -0.017 min
Lab File: 04142225.D
Acq: 14 Apr 2022 19:59

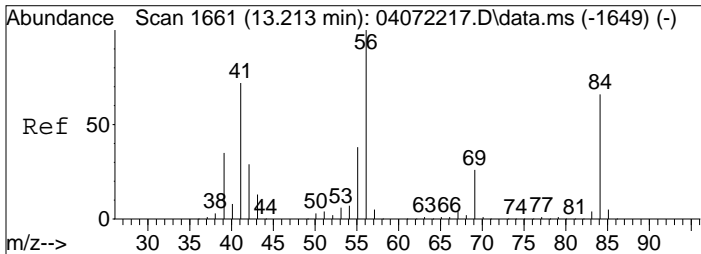
Tgt Ion	Resp	Lower	Upper
78	10269		
77	24.2	3.9	43.9



#42
Carbon Tetrachloride
Concen: 0.35 ng
RT: 13.07 min Scan# 1636
Delta R.T. -0.017 min
Lab File: 04142225.D
Acq: 14 Apr 2022 19:59

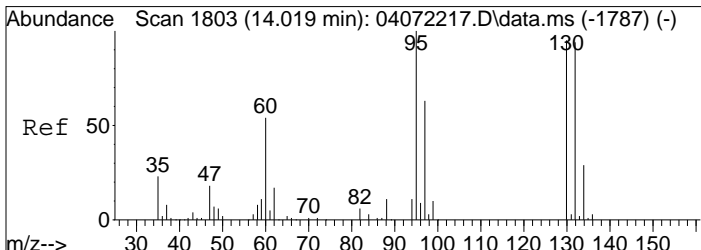
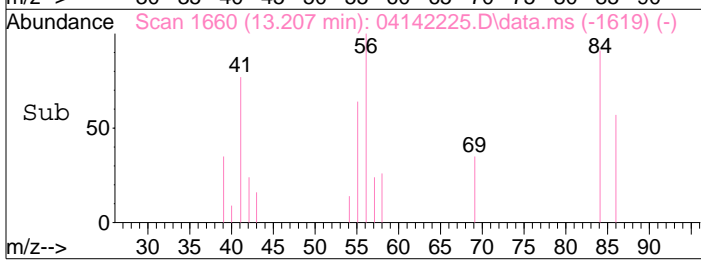
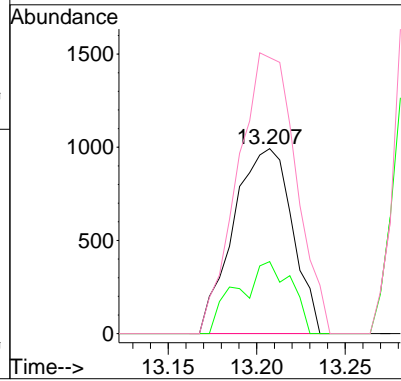
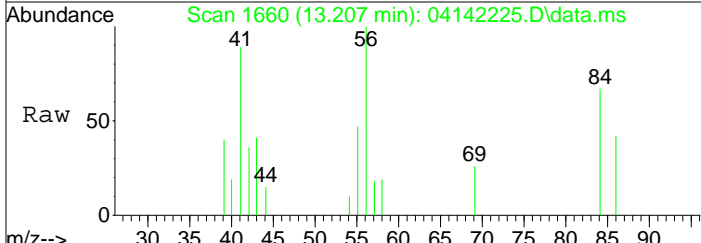
Tgt Ion	Resp	Lower	Upper
117	6526		
119	99.2	75.0	115.0





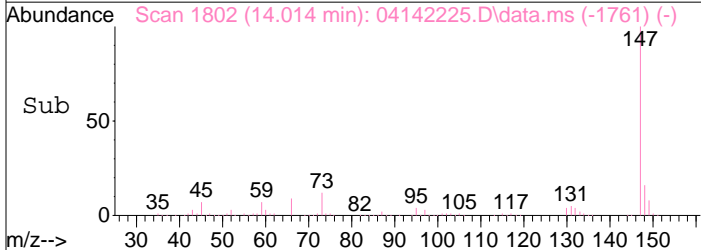
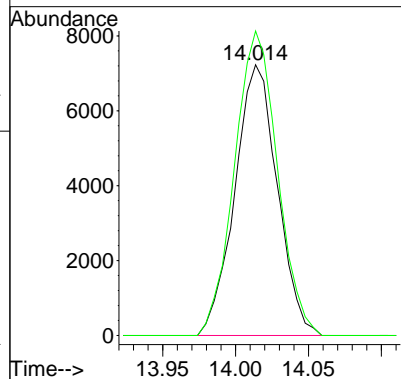
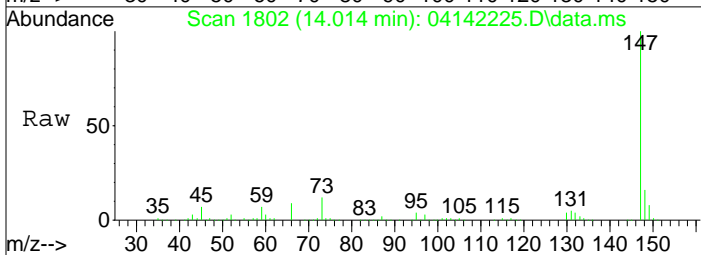
#43
 Cyclohexane
 Concen: 0.12 ng
 RT: 13.21 min Scan# 1660
 Delta R.T. -0.017 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

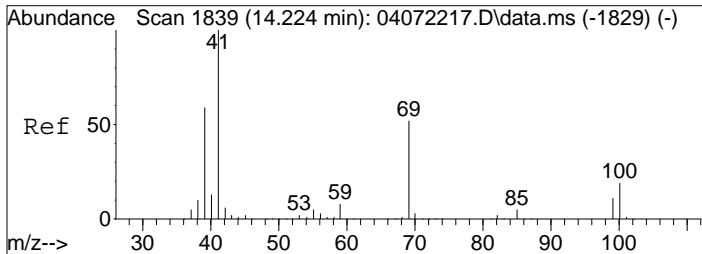
Tgt Ion:	84	Resp:	2296
Ion Ratio	Lower	Upper	
84	100		
69	35.4	18.6	58.6
56	150.4	128.4	168.4



#47
 Trichloroethene
 Concen: 1.06 ng
 RT: 14.01 min Scan# 1802
 Delta R.T. -0.017 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

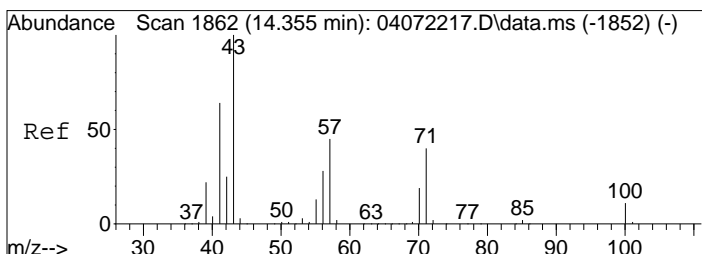
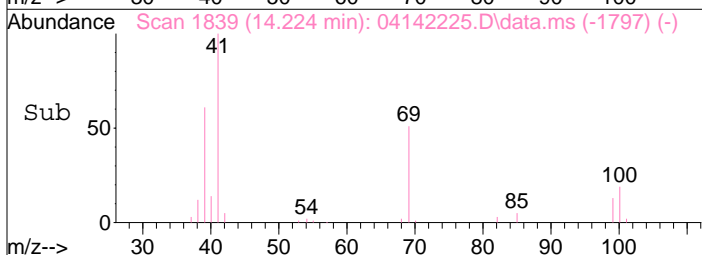
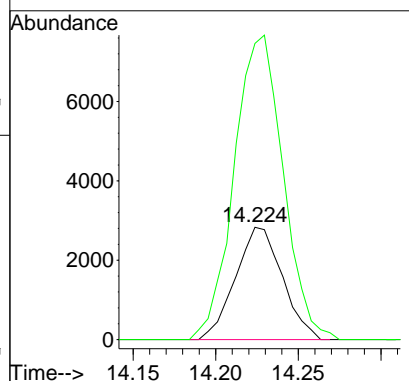
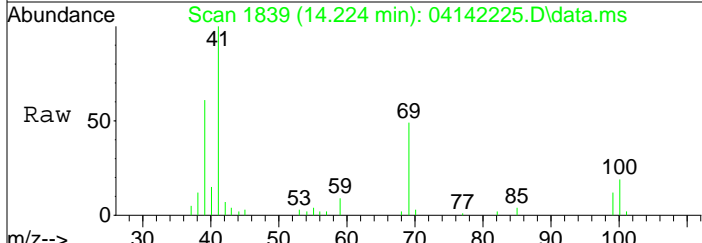
Tgt Ion:	130	Resp:	14674
Ion Ratio	Lower	Upper	
130	100		
132	113.6	77.7	117.7





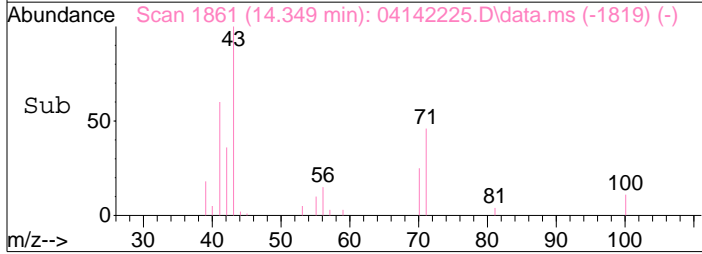
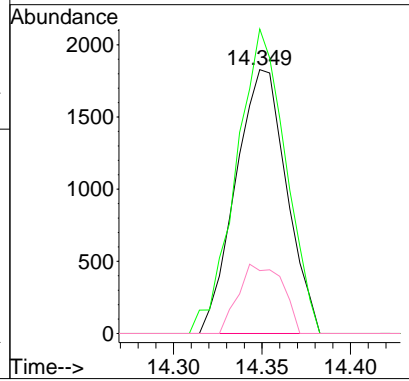
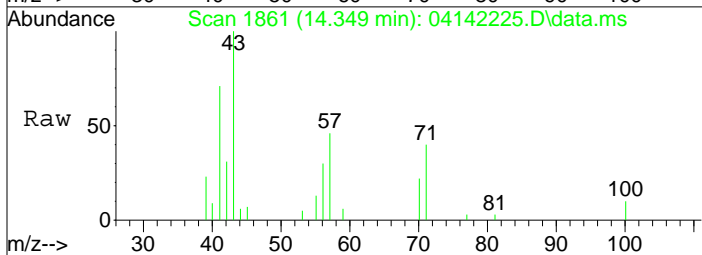
#50
 Methyl Methacrylate
 Concen: 1.15 ng
 RT: 14.22 min Scan# 1839
 Delta R.T. -0.011 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

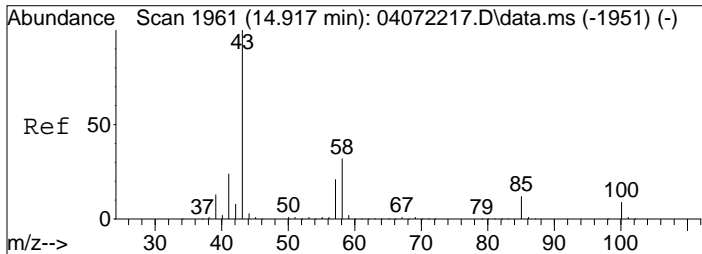
Tgt Ion	Resp	Lower	Upper
100	5591		
100	100		
69	282.4	250.2	290.2



#51
 n-Heptane
 Concen: 0.29 ng
 RT: 14.35 min Scan# 1861
 Delta R.T. -0.011 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

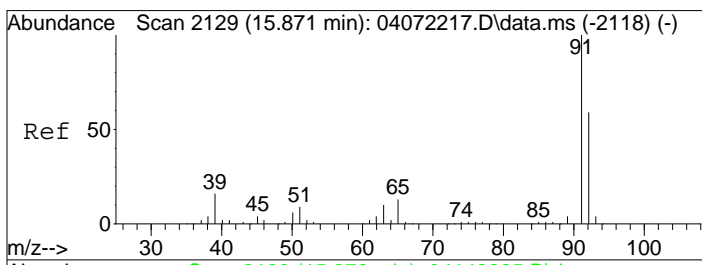
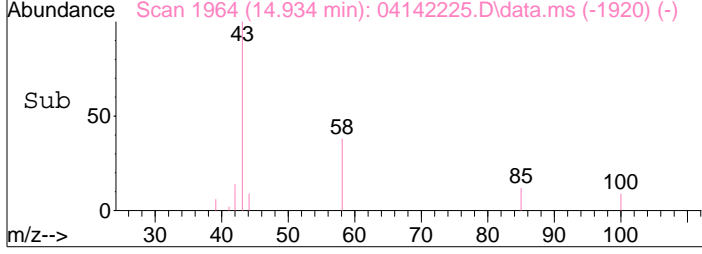
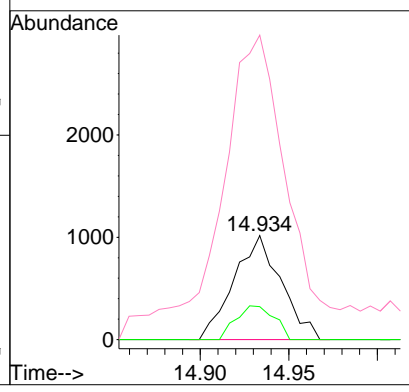
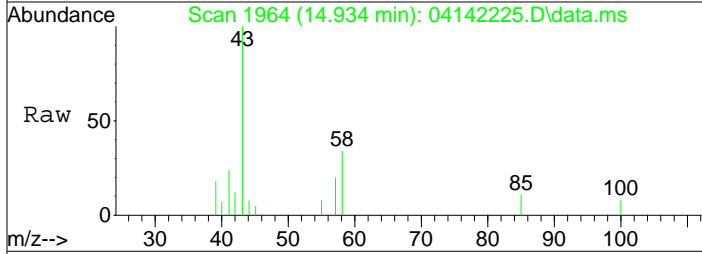
Tgt Ion	Resp	Lower	Upper
71	3664		
71	100		
57	112.0	89.9	129.9
100	22.6	7.5	47.5





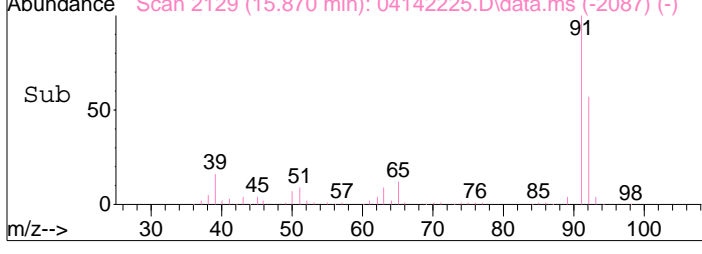
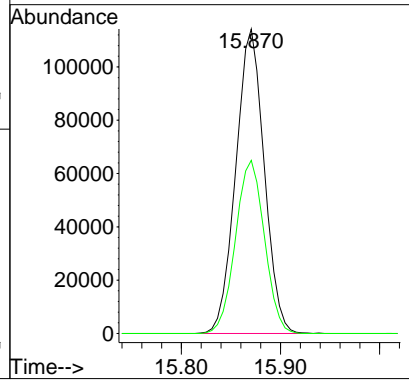
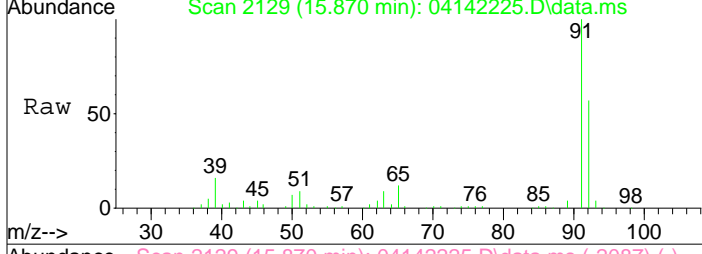
#53
 4-Methyl-2-pentanone
 Concen: 0.14 ng
 RT: 14.93 min Scan# 1964
 Delta R.T. -0.000 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

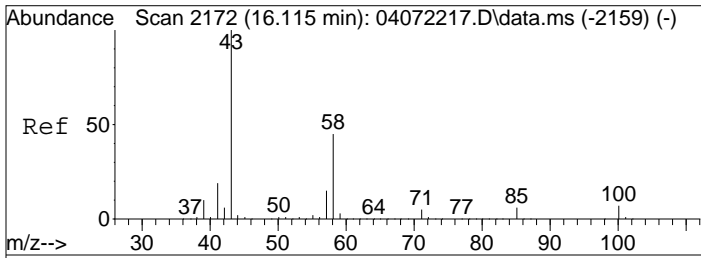
Tgt Ion	Resp	Lower	Upper
58	1895		
58	100		
85	26.3	31.0	46.4#
43	469.2	251.1	376.7#



#58
 Toluene
 Concen: 4.19 ng
 RT: 15.87 min Scan# 2129
 Delta R.T. -0.011 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

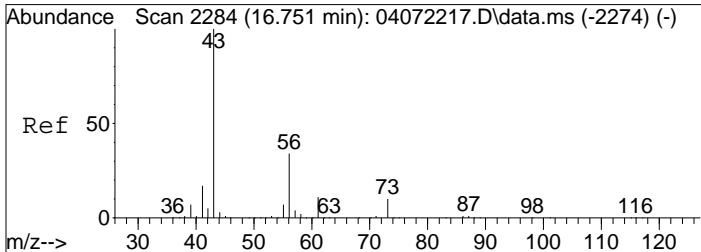
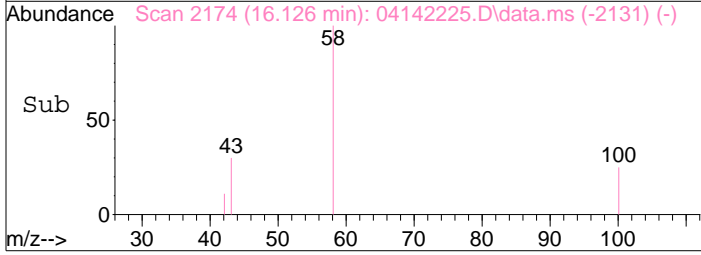
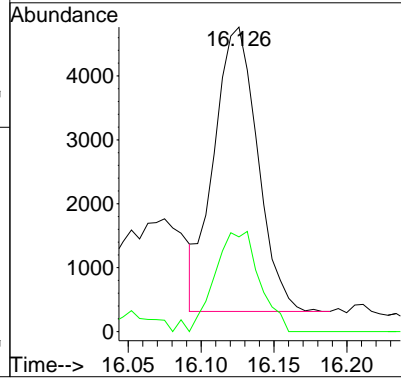
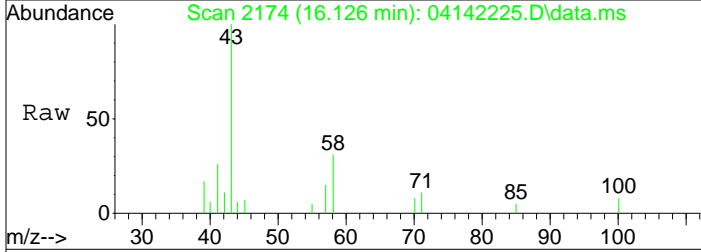
Tgt Ion	Resp	Lower	Upper
91	227241		
91	100		
92	57.8	38.3	78.3





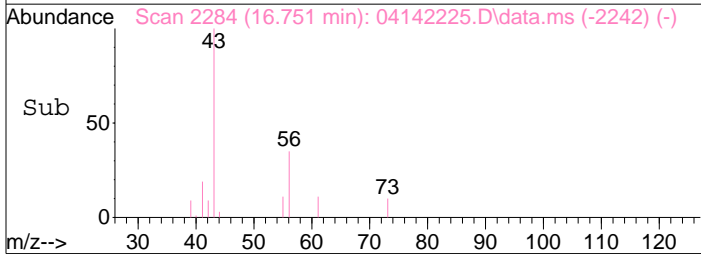
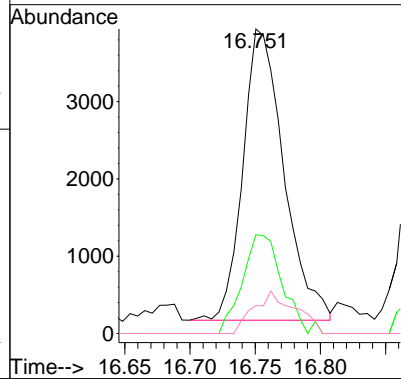
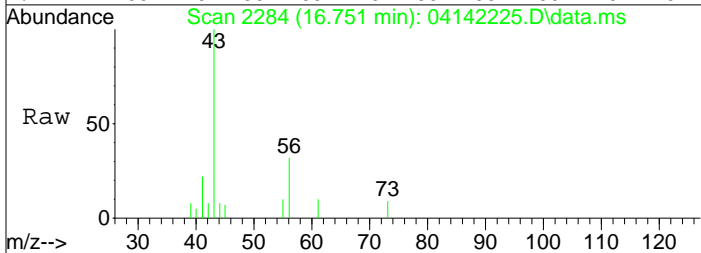
#59
 2-Hexanone
 Concen: 0.22 ng
 RT: 16.13 min Scan# 2174
 Delta R.T. -0.006 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

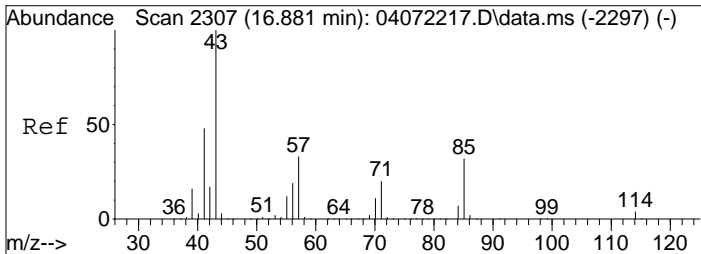
Tgt Ion	Resp	Lower	Upper
43	100		
58	36.1	24.3	64.3



#62
 n-Butyl Acetate
 Concen: 0.18 ng
 RT: 16.75 min Scan# 2284
 Delta R.T. -0.011 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

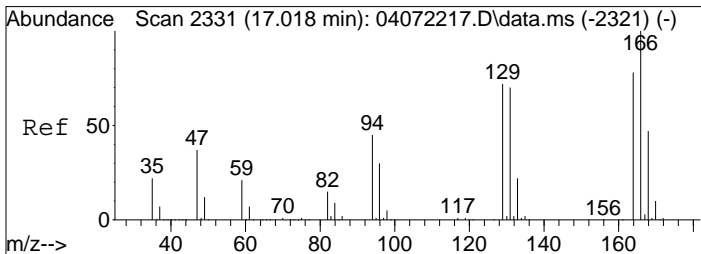
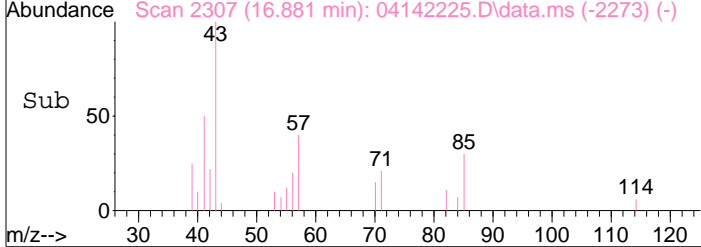
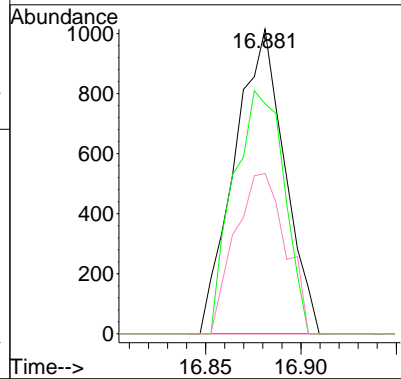
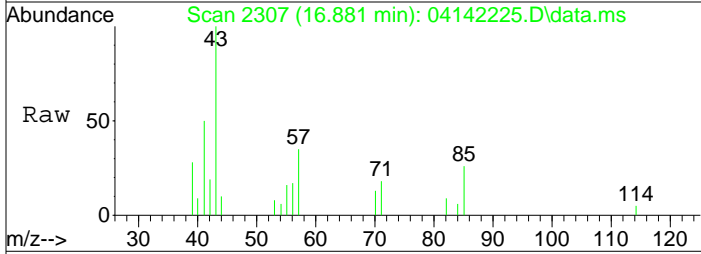
Tgt Ion	Resp	Lower	Upper
43	100		
56	32.9	13.8	53.8
73	14.7	0.0	29.9





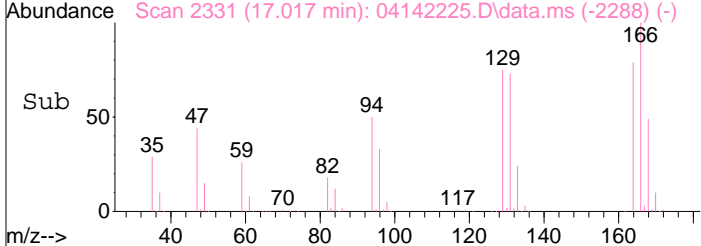
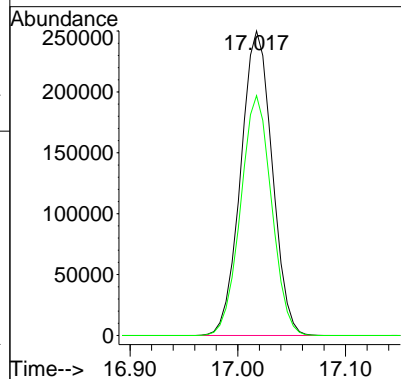
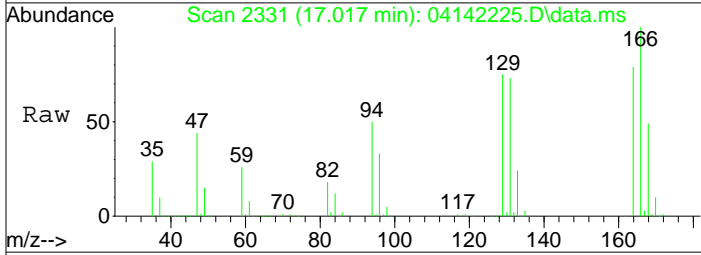
#63
 n-Octane
 Concen: 0.14 ng
 RT: 16.88 min Scan# 2307
 Delta R.T. -0.006 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

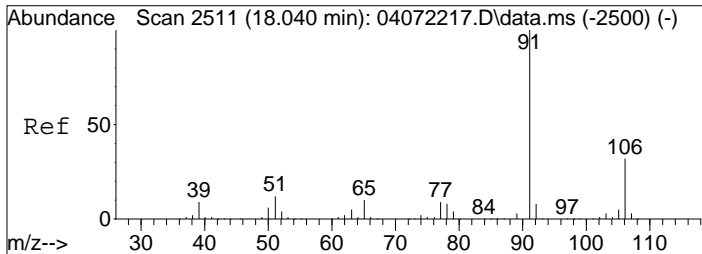
Tgt Ion:	Resp:	Lower	Upper
57	1854		
57	100		
85	80.5	77.4	116.0
71	53.0	47.0	70.6



#64
 Tetrachloroethene
 Concen: 32.78 ng
 RT: 17.02 min Scan# 2331
 Delta R.T. -0.006 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

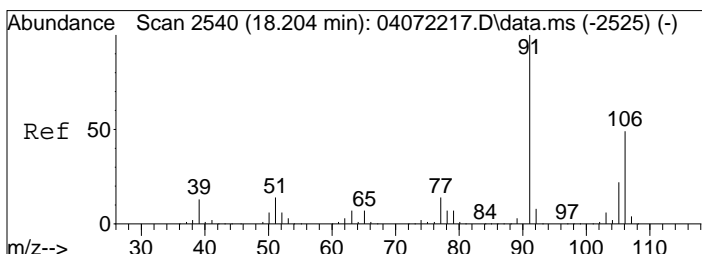
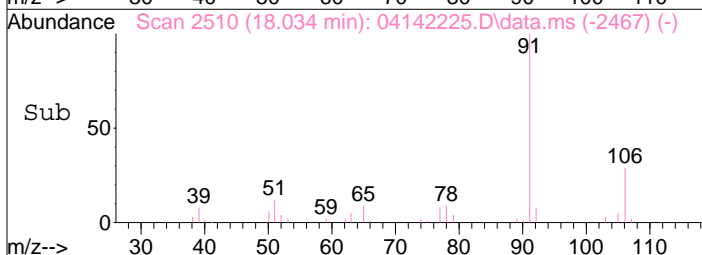
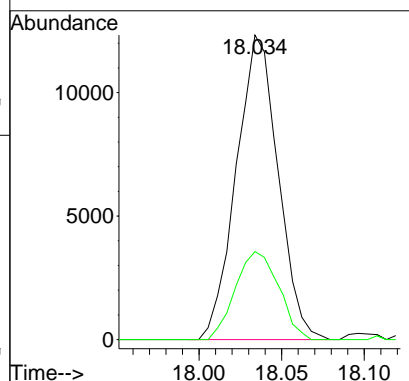
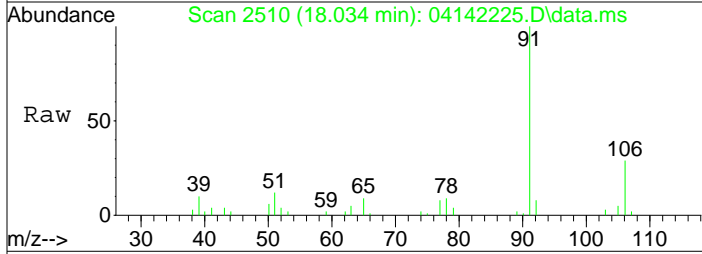
Tgt Ion:	Resp:	Lower	Upper
166	506690		
166	100		
164	77.5	57.8	97.8





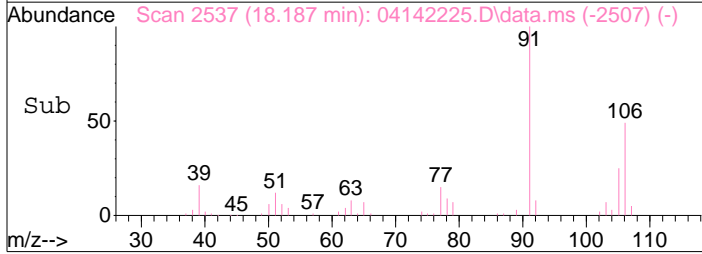
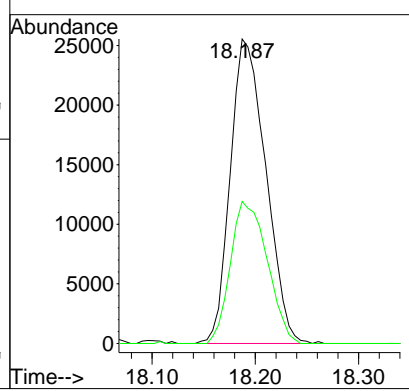
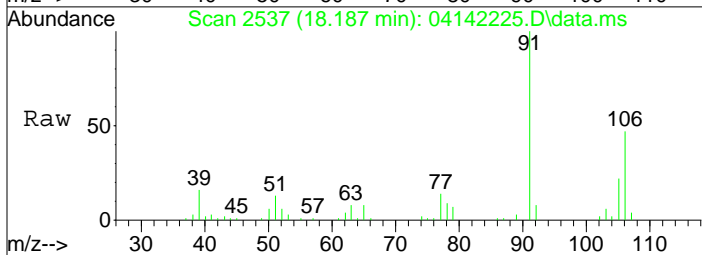
#66
 Ethylbenzene
 Concen: 0.35 ng
 RT: 18.03 min Scan# 2510
 Delta R.T. -0.006 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

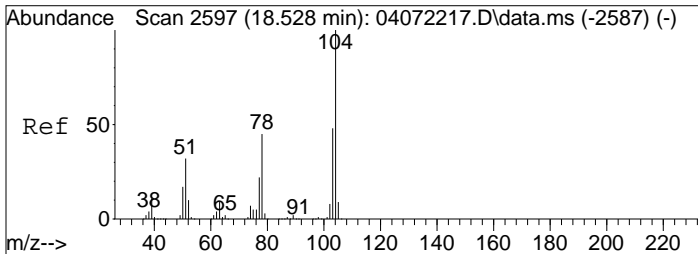
Tgt Ion	Resp	Lower	Upper
91	21718	100	
106	29.9	11.6	51.6



#67
 m- & p-Xylenes
 Concen: 1.23 ng
 RT: 18.19 min Scan# 2537
 Delta R.T. -0.029 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

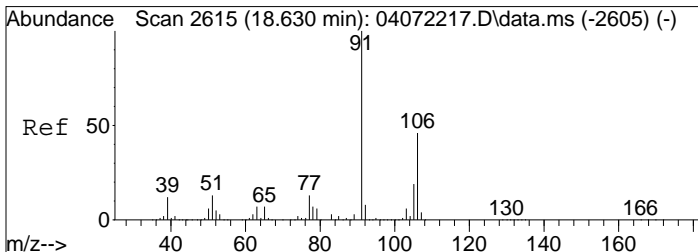
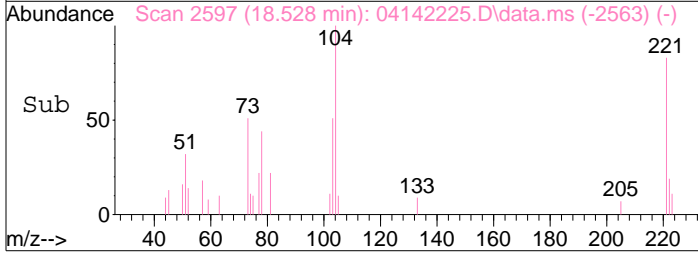
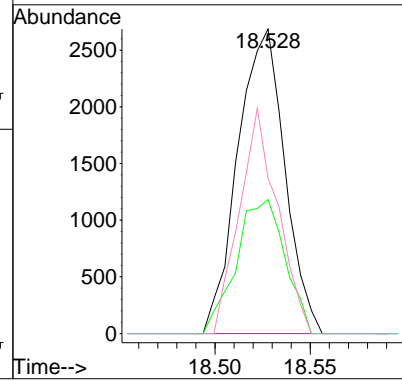
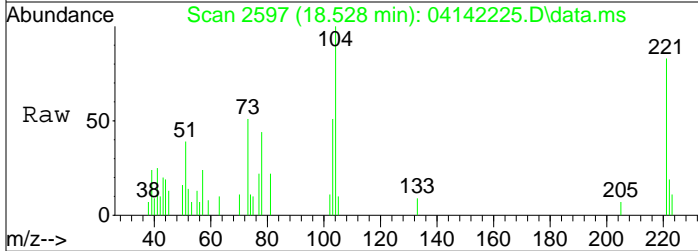
Tgt Ion	Resp	Lower	Upper
91	61051	100	
106	48.1	28.3	68.3





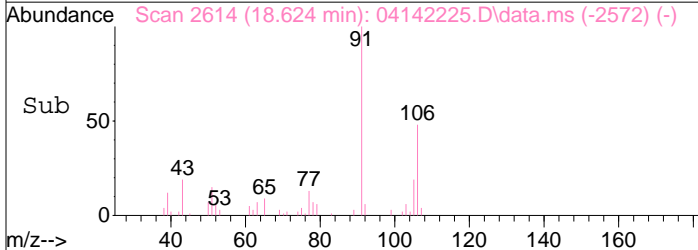
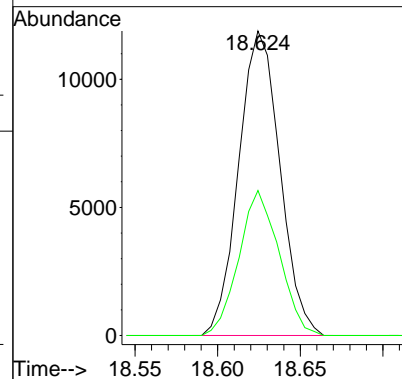
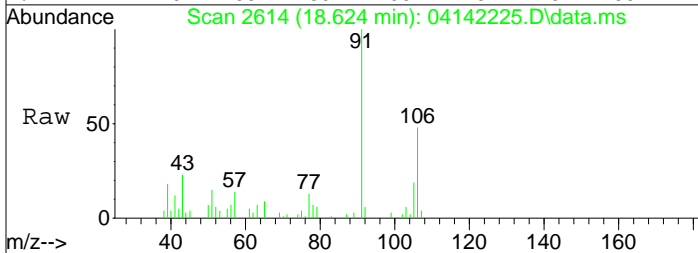
#69
 Styrene
 Concen: 0.13 ng
 RT: 18.53 min Scan# 2597
 Delta R.T. -0.006 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

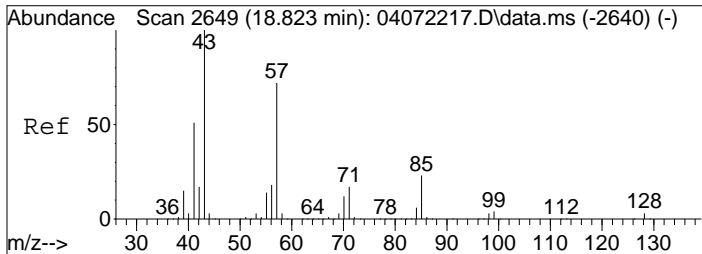
Tgt Ion	Resp	Lower	Upper
104	4599		
78	45.7	24.9	64.9
103	60.2	28.2	68.2



#70
 o-Xylene
 Concen: 0.41 ng
 RT: 18.62 min Scan# 2614
 Delta R.T. -0.011 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

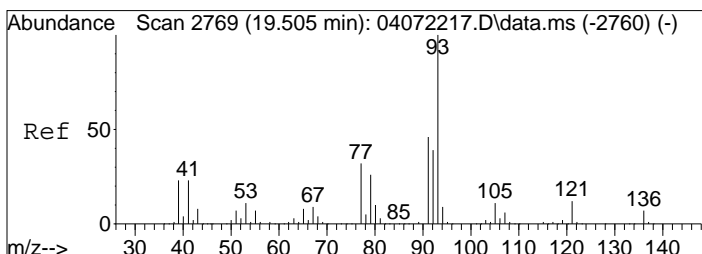
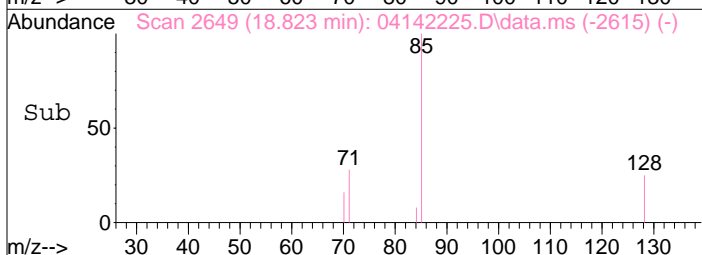
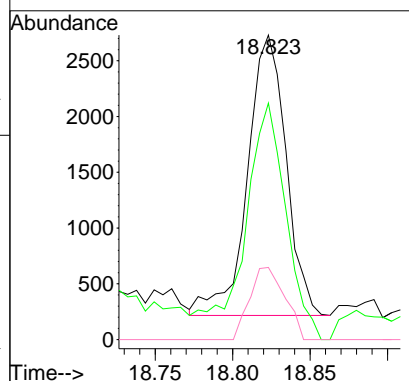
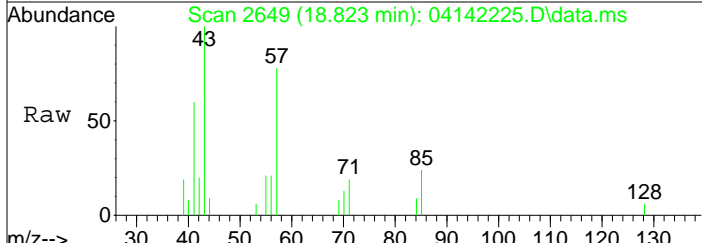
Tgt Ion	Resp	Lower	Upper
91	20629		
106	46.4	26.5	66.5





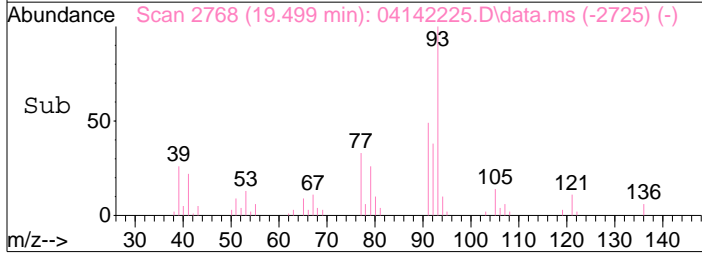
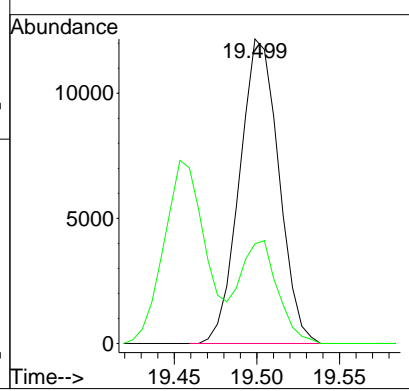
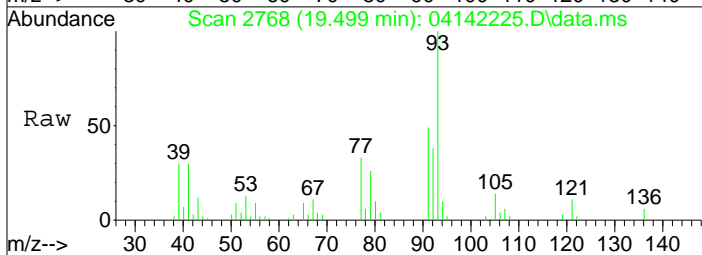
#71
 n-Nonane
 Concen: 0.11 ng
 RT: 18.82 min Scan# 2649
 Delta R.T. -0.006 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

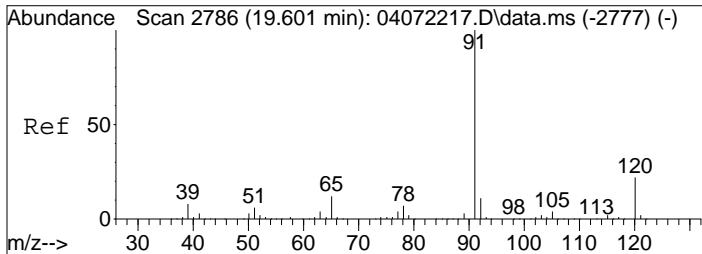
Tgt Ion:	Resp:	Lower	Upper
43	4383		
57	86.4	52.5	92.5
85	23.4	3.6	43.6



#75
 alpha-Pinene
 Concen: 0.67 ng
 RT: 19.50 min Scan# 2768
 Delta R.T. -0.006 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

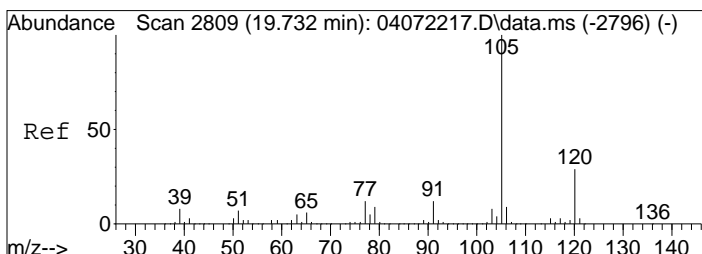
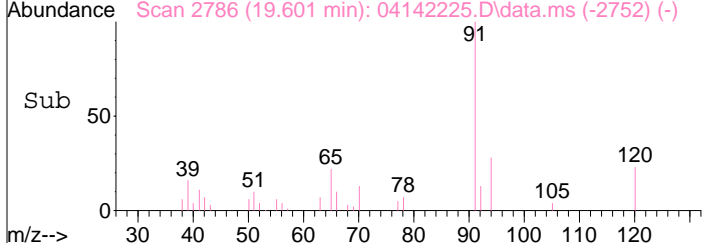
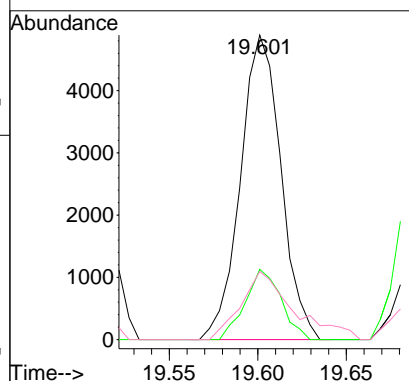
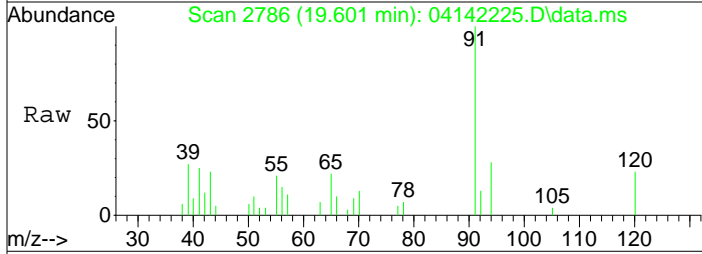
Tgt Ion:	Resp:	Lower	Upper
93	20140		
77	32.0	12.7	52.7





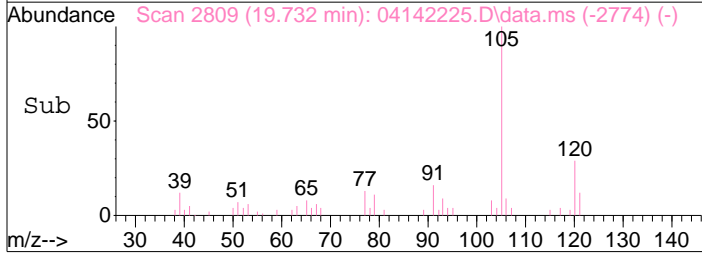
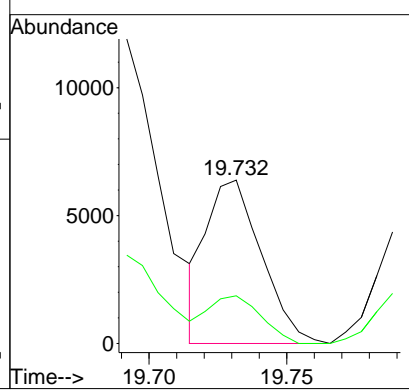
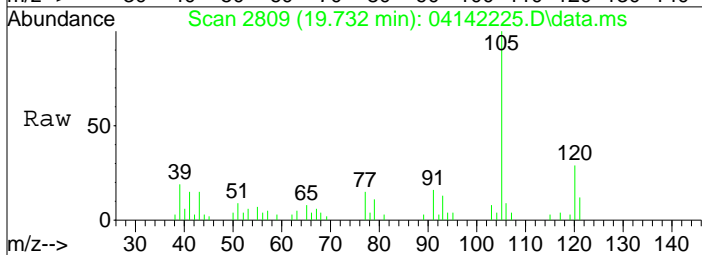
#76
 n-Propylbenzene
 Concen: 0.10 ng
 RT: 19.60 min Scan# 2786
 Delta R.T. -0.006 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

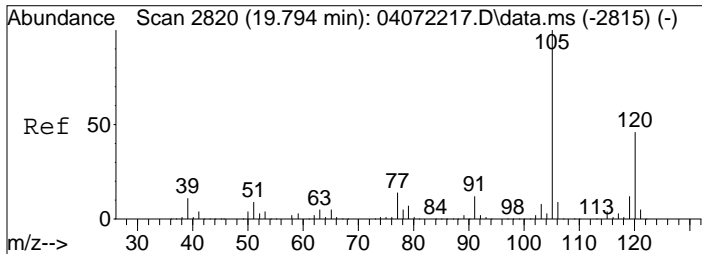
Tgt Ion:	Resp:	Lower	Upper
91	7780		
120	20.4	2.3	42.3
65	29.0	0.0	31.8



#78
 4-Ethyltoluene
 Concen: 0.15 ng
 RT: 19.73 min Scan# 2809
 Delta R.T. -0.000 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

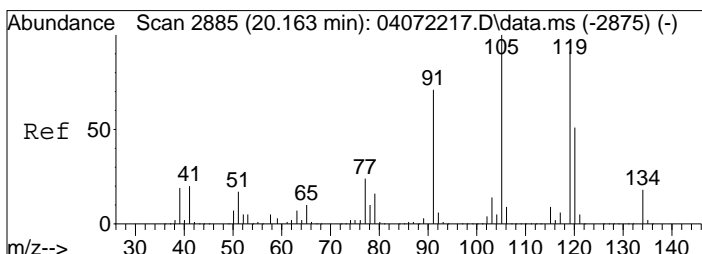
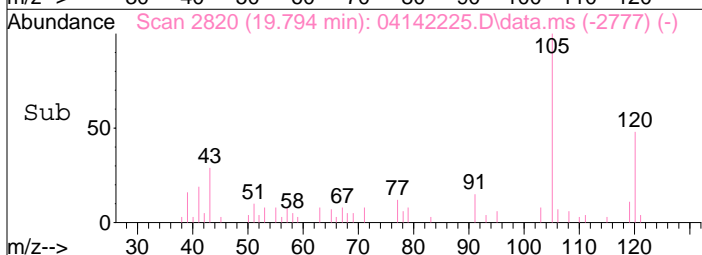
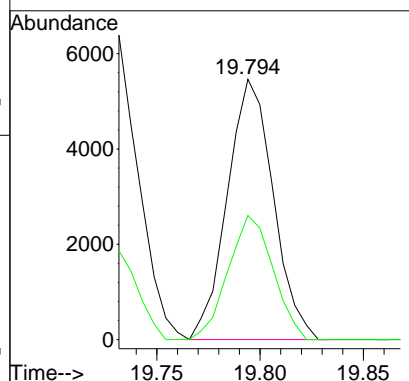
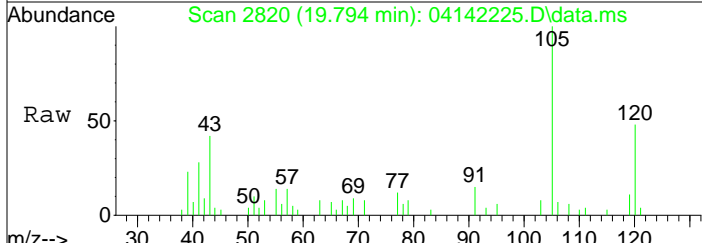
Tgt Ion:	Resp:	Lower	Upper
105	8904		
120	28.4	9.4	49.4





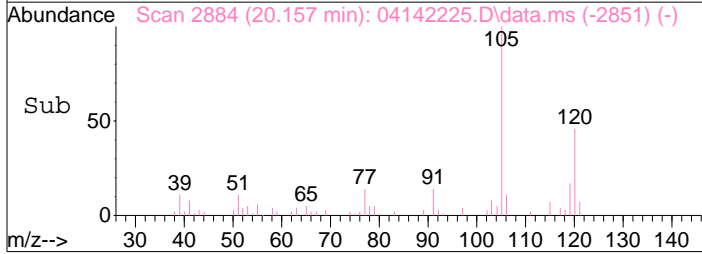
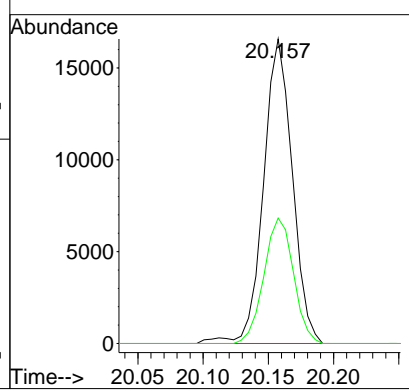
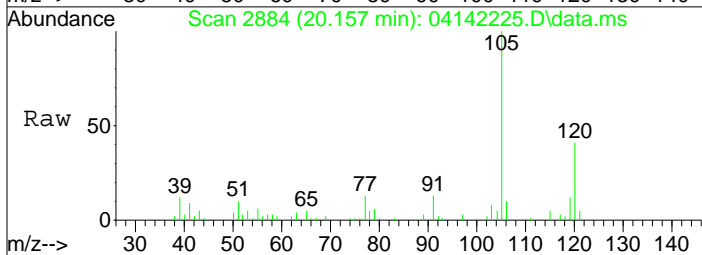
#79
 1,3,5-Trimethylbenzene
 Concen: 0.16 ng
 RT: 19.79 min Scan# 2820
 Delta R.T. -0.006 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

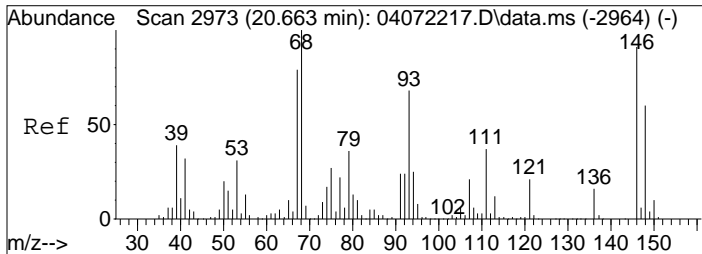
Tgt Ion	Resp	Lower	Upper
105	8465	100	100
120	46.4	27.1	67.1



#82
 1,2,4-Trimethylbenzene
 Concen: 0.48 ng
 RT: 20.16 min Scan# 2884
 Delta R.T. -0.011 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

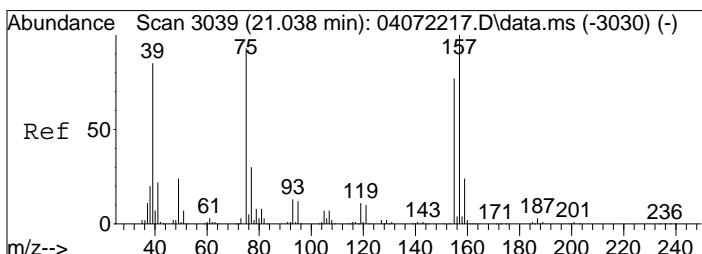
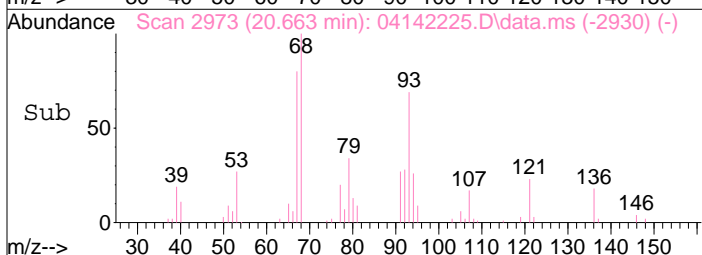
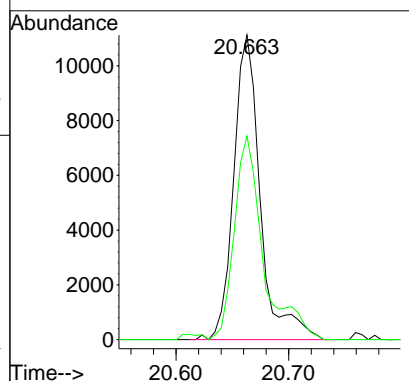
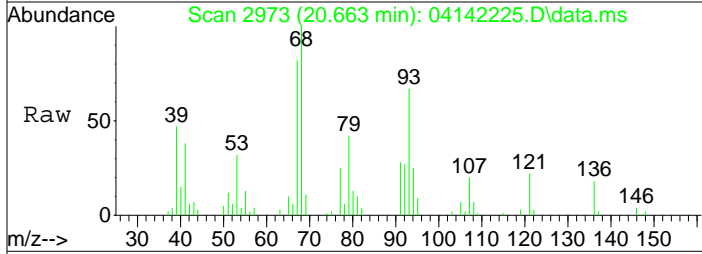
Tgt Ion	Resp	Lower	Upper
105	25483	100	100
120	42.1	31.1	71.1





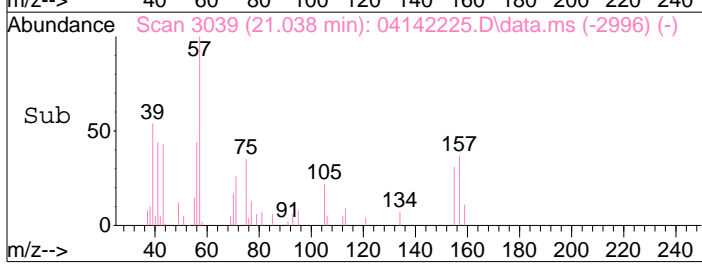
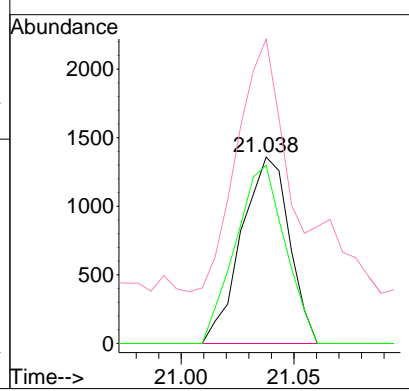
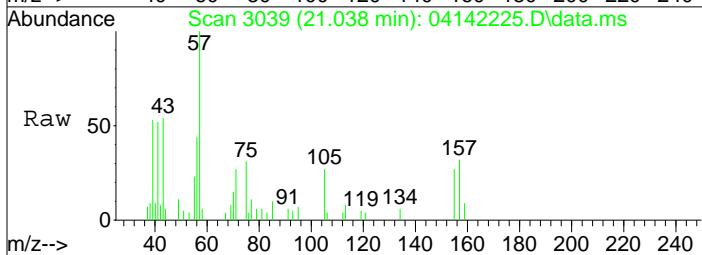
#91
 d-Limonene
 Concen: 0.92 ng
 RT: 20.66 min Scan# 2973
 Delta R.T. -0.006 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

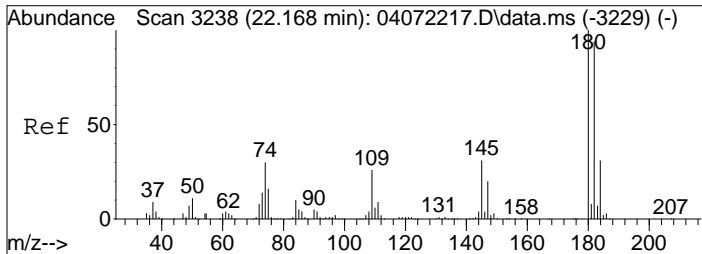
Tgt Ion	Resp	Lower	Upper
68	18243	100	100
93	72.7	48.9	88.9



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.18 ng
 RT: 21.04 min Scan# 3039
 Delta R.T. -0.006 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

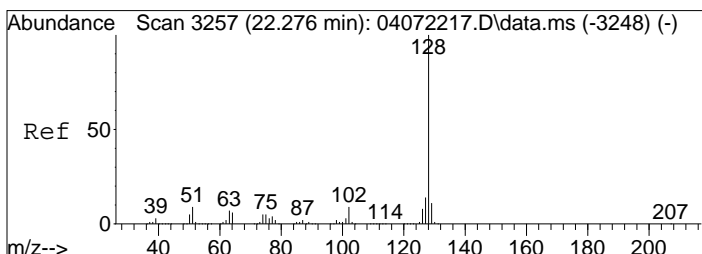
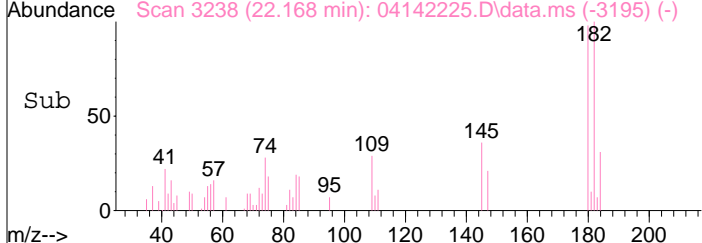
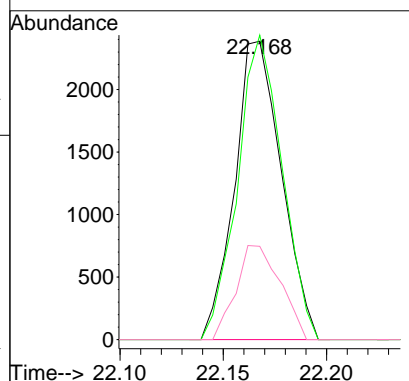
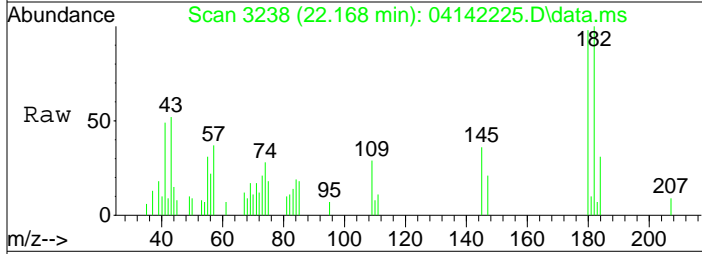
Tgt Ion	Resp	Lower	Upper
157	2006	100	100
75	99.3	70.0	110.0
39	187.5	64.3	104.3#





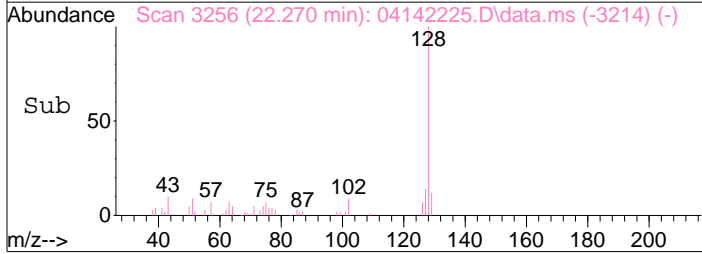
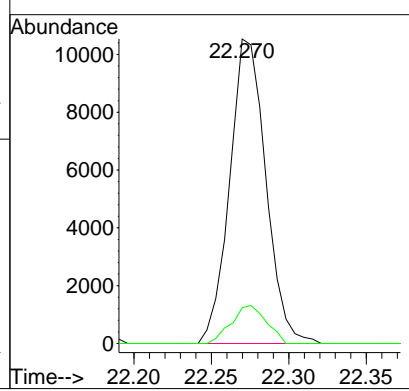
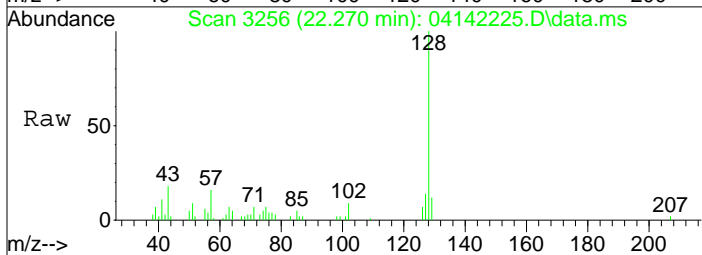
#94
 1,2,4-Trichlorobenzene
 Concen: 0.15 ng
 RT: 22.17 min Scan# 3238
 Delta R.T. -0.006 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

Tgt Ion	Resp	Lower	Upper
180	100		
182	96.7	76.2	114.2
184	29.8	24.6	36.8



#95
 Naphthalene
 Concen: 0.25 ng
 RT: 22.27 min Scan# 3256
 Delta R.T. -0.011 min
 Lab File: 04142225.D
 Acq: 14 Apr 2022 19:59

Tgt Ion	Resp	Lower	Upper
128	100		
129	12.1	0.0	31.1



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: NYS Department of Environmental Conservation

Client Sample ID: Building-3-IA-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao/Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02099

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14 - 4/15/22

Volume(s) Analyzed: 1.00 Liter(s)

0.20 Liter(s)

Initial Pressure (psig): 0.43 Final Pressure (psig): 4.30

Canister Dilution Factor: 1.26

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	5.7	0.66	3.3	0.38	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	0.67	0.49	0.14	
74-87-3	Chloromethane	0.57	0.26	0.27	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.68	ND	0.097	
75-01-4	Vinyl Chloride	ND	0.14	ND	0.054	
106-99-0	1,3-Butadiene	1.0	0.26	0.46	0.12	
74-83-9	Bromomethane	ND	0.26	ND	0.068	
75-00-3	Chloroethane	ND	0.26	ND	0.10	
64-17-5	Ethanol	490	32	260	17	D
75-05-8	Acetonitrile	ND	1.3	ND	0.75	
107-02-8	Acrolein	ND	1.3	ND	0.55	
67-64-1	Acetone	16	6.6	6.6	2.8	
75-69-4	Trichlorofluoromethane (CFC 11)	2.4	0.66	0.42	0.12	
67-63-0	2-Propanol (Isopropyl Alcohol)	12	1.3	4.9	0.51	
107-13-1	Acrylonitrile	ND	1.3	ND	0.58	
75-35-4	1,1-Dichloroethene	ND	0.14	ND	0.035	
75-09-2	Methylene Chloride	ND	0.66	ND	0.19	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.67	ND	0.21	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.68	ND	0.089	
75-15-0	Carbon Disulfide	ND	1.4	ND	0.45	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	ND	0.035	
75-34-3	1,1-Dichloroethane	ND	0.14	ND	0.034	
1634-04-4	Methyl tert-Butyl Ether	ND	0.67	ND	0.19	
108-05-4	Vinyl Acetate	ND	6.3	ND	1.8	
78-93-3	2-Butanone (MEK)	1.7	1.3	0.58	0.43	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: NYS Department of Environmental Conservation

Client Sample ID: Building-3-IA-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao/Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02099

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14 - 4/15/22

Volume(s) Analyzed: 1.00 Liter(s)

0.20 Liter(s)

Initial Pressure (psig): 0.43 Final Pressure (psig): 4.30

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.14	ND	0.035	
141-78-6	Ethyl Acetate	18	2.6	5.1	0.73	
110-54-3	n-Hexane	2.3	0.67	0.65	0.19	
67-66-3	Chloroform	0.37	0.14	0.075	0.028	
109-99-9	Tetrahydrofuran (THF)	ND	1.3	ND	0.43	
107-06-2	1,2-Dichloroethane	ND	0.14	ND	0.034	
71-55-6	1,1,1-Trichloroethane	ND	0.14	ND	0.025	
71-43-2	Benzene	2.2	0.14	0.69	0.043	
56-23-5	Carbon Tetrachloride	0.38	0.14	0.060	0.022	
110-82-7	Cyclohexane	ND	1.4	ND	0.40	
78-87-5	1,2-Dichloropropane	ND	0.14	ND	0.030	
75-27-4	Bromodichloromethane	0.16	0.14	0.024	0.021	
79-01-6	Trichloroethene	ND	0.14	ND	0.026	
123-91-1	1,4-Dioxane	ND	0.66	ND	0.18	
80-62-6	Methyl Methacrylate	ND	1.4	ND	0.34	
142-82-5	n-Heptane	1.5	0.67	0.37	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.67	ND	0.15	
108-10-1	4-Methyl-2-pentanone	ND	1.4	ND	0.34	
10061-02-6	trans-1,3-Dichloropropene	ND	0.64	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.14	ND	0.025	
108-88-3	Toluene	9.4	0.66	2.5	0.17	
591-78-6	2-Hexanone	ND	1.4	ND	0.34	
124-48-1	Dibromochloromethane	ND	0.14	ND	0.016	
106-93-4	1,2-Dibromoethane	ND	0.14	ND	0.018	
123-86-4	n-Butyl Acetate	ND	1.4	ND	0.29	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3 of 3

Client: NYS Department of Environmental Conservation

Client Sample ID: Building-3-IA-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao/Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02099

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14 - 4/15/22

Volume(s) Analyzed: 1.00 Liter(s)

0.20 Liter(s)

Initial Pressure (psig): 0.43 Final Pressure (psig): 4.30

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	1.1	0.67	0.23	0.14	
127-18-4	Tetrachloroethene	ND	0.14	ND	0.020	
108-90-7	Chlorobenzene	ND	0.66	ND	0.14	
100-41-4	Ethylbenzene	1.8	0.66	0.42	0.15	
179601-23-1	m,p-Xylenes	6.1	1.4	1.4	0.32	
75-25-2	Bromoform	ND	0.66	ND	0.063	
100-42-5	Styrene	ND	0.66	ND	0.15	
95-47-6	o-Xylene	2.3	0.66	0.52	0.15	
111-84-2	n-Nonane	0.86	0.66	0.16	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	ND	0.020	
98-82-8	Cumene	ND	0.66	ND	0.13	
80-56-8	alpha-Pinene	2.6	0.68	0.48	0.12	
103-65-1	n-Propylbenzene	ND	0.67	ND	0.14	
622-96-8	4-Ethyltoluene	ND	0.67	ND	0.14	
108-67-8	1,3,5-Trimethylbenzene	ND	0.66	ND	0.13	
95-63-6	1,2,4-Trimethylbenzene	1.8	0.66	0.36	0.13	
100-44-7	Benzyl Chloride	ND	1.4	ND	0.27	
541-73-1	1,3-Dichlorobenzene	ND	0.66	ND	0.11	
106-46-7	1,4-Dichlorobenzene	ND	0.66	ND	0.11	
95-50-1	1,2-Dichlorobenzene	ND	0.67	ND	0.11	
5989-27-5	d-Limonene	9.9	0.66	1.8	0.12	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.3	ND	0.13	
120-82-1	1,2,4-Trichlorobenzene	ND	1.3	ND	0.17	
91-20-3	Naphthalene	ND	0.66	ND	0.13	
87-68-3	Hexachlorobutadiene	ND	0.66	ND	0.061	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Data File : I:\MS09\DATA\2022 04\14\04142226.D
 Acq On : 14 Apr 2022 20:32
 Sample : P2201602-008 (1000mL)
 Misc : S35-04132201

Vial: 10
 Operator: SC
 Inst : MS09

Quant Time: Apr 15 01:43:00 2022

LH 4/15/22

Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	11.17	130	140562	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	13.31	114	623491	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.64	54	162624	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.03	65	279738	13.011	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery	=	104.08%	
57) Toluene-d8 (SS2)	15.77	98	736318	12.426	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	99.44%	
73) Bromofluorobenzene (SS3)	19.03	174	225621	10.811	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	86.48%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.04	42	87179	4.494	ng	96
3) Dichlorodifluoromethan...	4.20	85	51476	1.939	ng	100
4) Chloromethane	4.49	50	9924	0.450	ng	97
5) 1,2-Dichloro-1,1,2,2-t...	4.75	135	1012	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.18	54	13382	0.812	ng	98
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.39	45	5806300	410.343	ng	99
11) Acetonitrile	6.68	41	115	N.D.		
12) Acrolein	6.77	56	8068	0.930	ng	100
13) Acetone	6.98	58	138909	12.471	ng	# 19
14) Trichlorofluoromethane	7.24	101	46327	1.872	ng	100
15) 2-Propanol (Isopropanol)	7.52	45	419232	9.522	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	8.43	84	3586	0.309	ng	93
20) 3-Chloro-1-propene (Al...	8.60	41	1103	N.D.		
21) Trichlorotrifluoroethane	8.86	151	3734	0.353	ng	89
22) Carbon Disulfide	8.69	76	2634	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	10.13	73	115	N.D.		
26) Vinyl Acetate	10.20	86	7724	3.856	ng	# 44
27) 2-Butanone (MEK)	10.48	72	10539	1.354	ng	# 91
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	11.30	61	80585	14.501	ng	97
31) n-Hexane	11.29	57	45835	1.830	ng	97
32) Chloroform	11.34	83	6296	0.290	ng	98
34) Tetrahydrofuran (THF)	11.78	72	3247	0.435	ng	# 86
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	12.16	62	1056	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	13.31	61	21832	No Calib		
40) 1-Butanol	12.90	56	35646	No Calib	#	
41) Benzene	12.91	78	84946	1.760	ng	99
42) Carbon Tetrachloride	13.08	117	5573	0.300	ng	99
43) Cyclohexane	13.20	84	9338	0.505	ng	99
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	13.76	63	120	N.D.		
46) Bromodichloromethane	13.98	83	2206	0.125	ng	# 47
47) Trichloroethene	14.02	130	531	N.D.		
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.	d	

Data File : I:\MS09\DATA\2022 04\14\04142226.D
 Acq On : 14 Apr 2022 20:32
 Sample : P2201602-008 (1000mL)
 Misc : S35-04132201

Vial: 10
 Operator: SC
 Inst : MS09

Quant Time: Apr 15 01:43:00 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

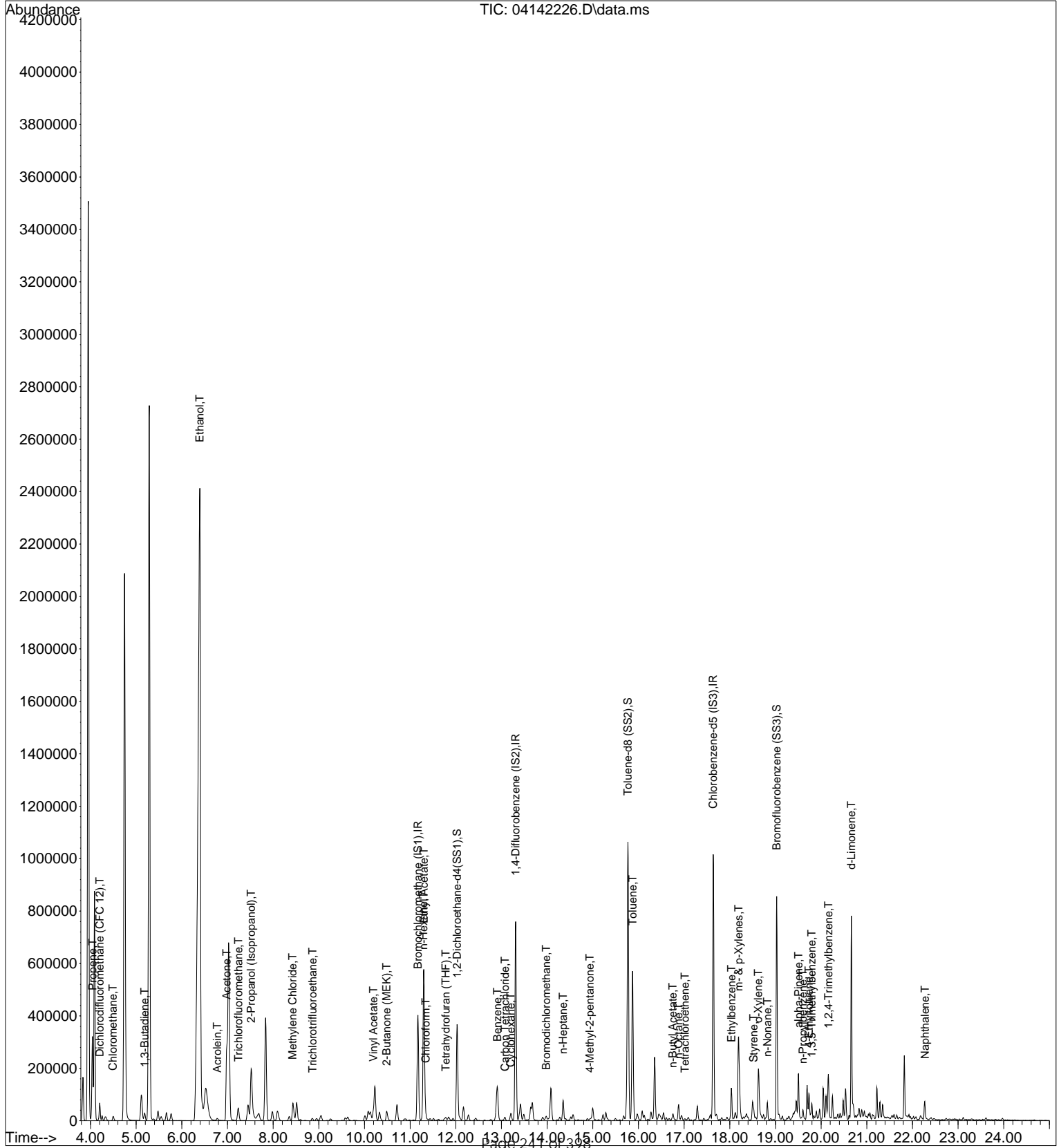
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
51) n-Heptane	14.35	71	15180	1.205	ng	98
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	14.93	58	1531	0.112	ng #	73
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	15.50	97	124	N.D.		
58) Toluene	15.87	91	408024	7.488	ng	99
59) 2-Hexanone	0.00	43	0	N.D.	d	
60) Dibromochloromethane	16.29	129	386	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.75	43	19661	0.430	ng	86
63) n-Octane	16.88	57	11385	0.834	ng	95
64) Tetrachloroethene	17.02	166	1649	0.106	ng	94
65) Chlorobenzene	17.71	112	1764	N.D.		
66) Ethylbenzene	18.03	91	89010	1.435	ng	99
67) m- & p-Xylenes	18.19	91	242179	4.860	ng	99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.52	104	14549	0.409	ng	99
70) o-Xylene	18.62	91	90007	1.790	ng	100
71) n-Nonane	18.82	43	26384	0.684	ng	100
72) 1,1,2,2-Tetrachloroethane	18.62	83	1180	N.D.		
74) Cumene	19.15	105	5411	N.D.		
75) alpha-Pinene	19.50	93	63221	2.103	ng	99
76) n-Propylbenzene	19.60	91	21621	0.284	ng	92
77) 3-Ethyltoluene	19.73	105	27028	No Calib		
78) 4-Ethyltoluene	19.73	105	27028	0.440	ng	99
79) 1,3,5-Trimethylbenzene	19.79	105	21618	0.414	ng	100
80) alpha-Methylstyrene	19.70	118	275	No Calib	#	
81) 2-Ethyltoluene	20.66	105	10581	No Calib		
82) 1,2,4-Trimethylbenzene	20.16	105	76460	1.422	ng	91
83) n-Decane	20.48	58	841	No Calib	#	
84) Benzyl Chloride	0.00	91	0	N.D.	d	
85) 1,3-Dichlorobenzene	20.35	146	501	N.D.		
86) 1,4-Dichlorobenzene	20.35	146	501	N.D.		
87) sec-Butylbenzene	20.40	105	1977	N.D.		
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.	d	
89) 1,2,3-Trimethylbenzene	20.40	105	1977	No Calib	#	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	20.66	68	157819	7.890	ng	94
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	21.34	58	1066	No Calib		
94) 1,2,4-Trichlorobenzene	22.17	180	336	N.D.		
95) Naphthalene	22.28	128	25389	0.375	ng	98
96) n-Dodecane	22.26	58	597	No Calib	#	
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	18.64	55	8793	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:\MS09\DATA\2022 04\14\04142226.D
 Acq On : 14 Apr 2022 20:32
 Sample : P2201602-008 (1000mL)
 Misc : S35-04132201

Vial: 10
 Operator: SC
 Inst : MS09

Quant Time: Apr 15 01:43:00 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2022 04\14\04142226.D
 Acq On : 14 Apr 2022 20:32
 Sample : P2201602-008 (1000mL)
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Vial: 10
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Quant Time: Apr 15 01:43:00 2022

LH 4/15/22

Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	11.17	130	140562	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	13.31	114	623491	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.64	54	162624	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.03	65	279738	13.011	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery	=	104.08%	
57) Toluene-d8 (SS2)	15.77	98	736318	12.426	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	99.44%	
73) Bromofluorobenzene (SS3)	19.03	174	225621	10.811	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	86.48%	

Target Compounds

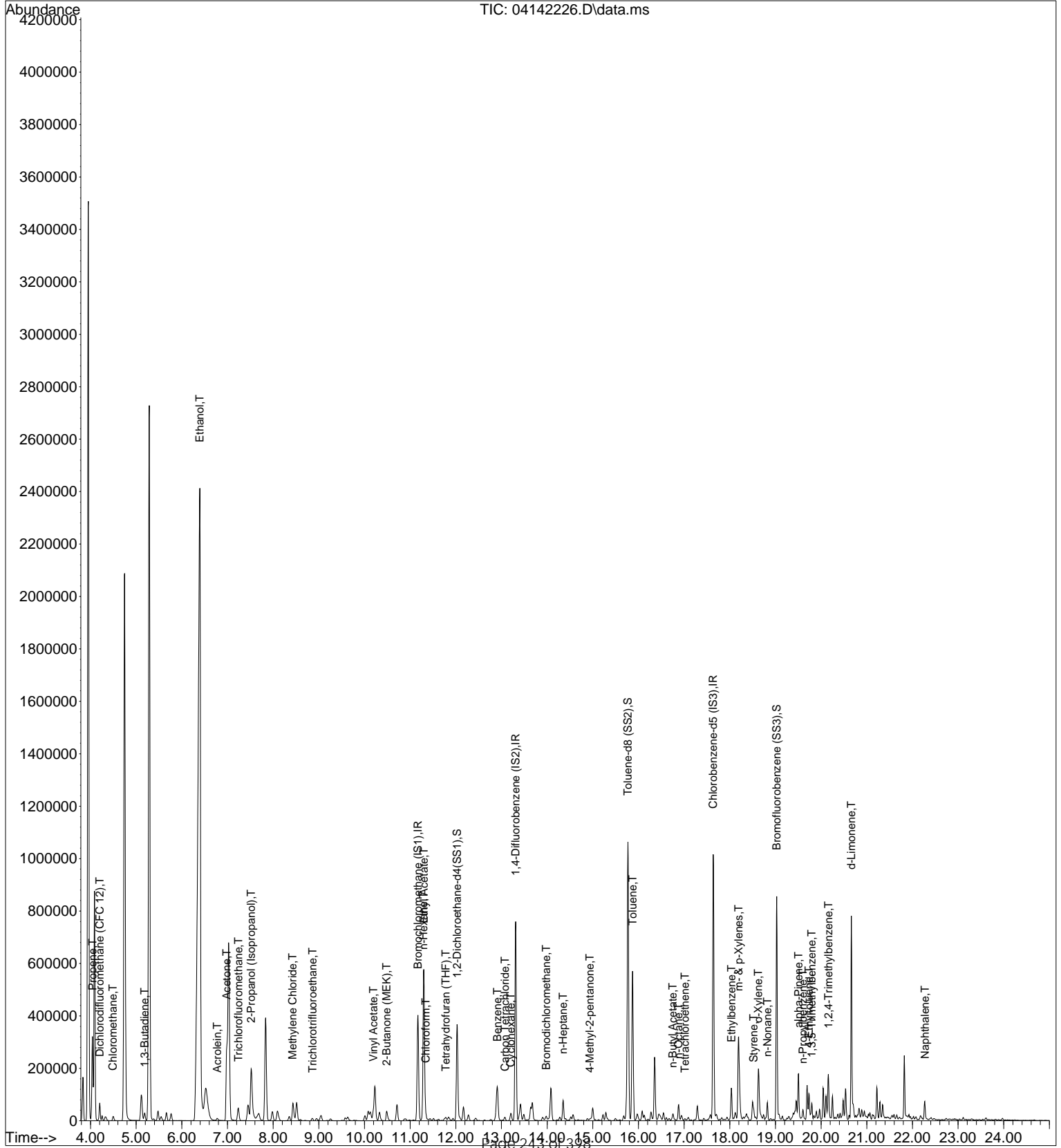
	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.04	42	87179	4.494	ng	96
3) Dichlorodifluoromethan...	4.20	85	51476	1.939	ng	100
4) Chloromethane	4.49	50	9924	0.450	ng	97
7) 1,3-Butadiene	5.18	54	13382	0.812	ng	98
10) Ethanol	6.39	45	5806300	410.343	ng	99
12) Acrolein	6.77	56	8068	0.930	ng	100
13) Acetone	6.98	58	138909	12.471	ng	# 19
14) Trichlorofluoromethane	7.24	101	46327	1.872	ng	100
15) 2-Propanol (Isopropanol)	7.52	45	419232	9.522	ng	100
19) Methylene Chloride	8.43	84	3586	0.309	ng	93
21) Trichlorotrifluoroethane	8.86	151	3734	0.353	ng	89
26) Vinyl Acetate	10.20	86	7724	3.856	ng	# 44
27) 2-Butanone (MEK)	10.48	72	10539	1.354	ng	# 91
30) Ethyl Acetate	11.30	61	80585	14.501	ng	97
31) n-Hexane	11.29	57	45835	1.830	ng	97
32) Chloroform	11.34	83	6296	0.290	ng	98
34) Tetrahydrofuran (THF)	11.78	72	3247	0.435	ng	# 86
41) Benzene	12.91	78	84946	1.760	ng	99
42) Carbon Tetrachloride	13.08	117	5573	0.300	ng	99
43) Cyclohexane	13.20	84	9338	0.505	ng	99
46) Bromodichloromethane	13.98	83	2206	0.125	ng	# 47
51) n-Heptane	14.35	71	15180	1.205	ng	98
53) 4-Methyl-2-pentanone	14.93	58	1531	0.112	ng	# 73
58) Toluene	15.87	91	408024	7.488	ng	99
62) n-Butyl Acetate	16.75	43	19661	0.430	ng	86
63) n-Octane	16.88	57	11385	0.834	ng	95
64) Tetrachloroethene	17.02	166	1649	0.106	ng	94
66) Ethylbenzene	18.03	91	89010	1.435	ng	99
67) m- & p-Xylenes	18.19	91	242179	4.860	ng	99
69) Styrene	18.52	104	14549	0.409	ng	99
70) o-Xylene	18.62	91	90007	1.790	ng	100
71) n-Nonane	18.82	43	26384	0.684	ng	100
75) alpha-Pinene	19.50	93	63221	2.103	ng	99
76) n-Propylbenzene	19.60	91	21621	0.284	ng	92
78) 4-Ethyltoluene	19.73	105	27028	0.440	ng	99
79) 1,3,5-Trimethylbenzene	19.79	105	21618	0.414	ng	100
82) 1,2,4-Trimethylbenzene	20.16	105	76460	1.422	ng	91
91) d-Limonene	20.66	68	157819	7.890	ng	94
95) Naphthalene	22.28	128	25389	0.375	ng	98

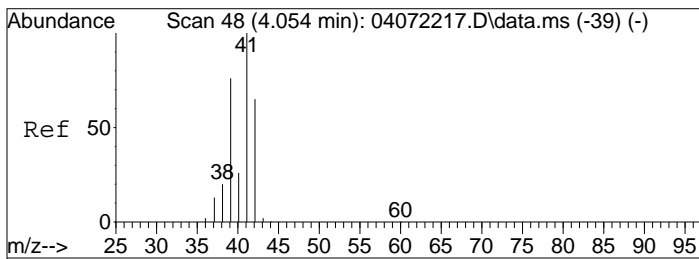
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS09\DATA\2022 04\14\04142226.D
 Acq On : 14 Apr 2022 20:32
 Sample : P2201602-008 (1000mL)
 Misc : S35-04132201

Vial: 10
 Operator: SC
 Inst : MS09

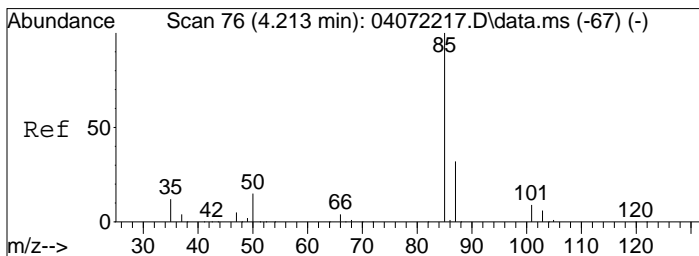
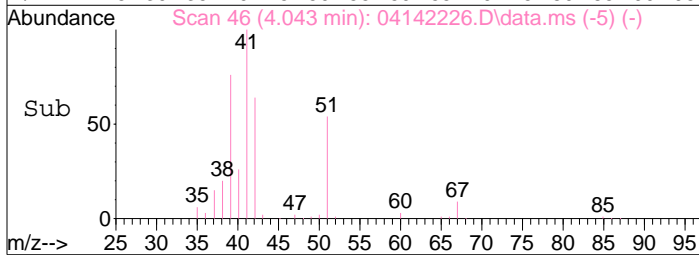
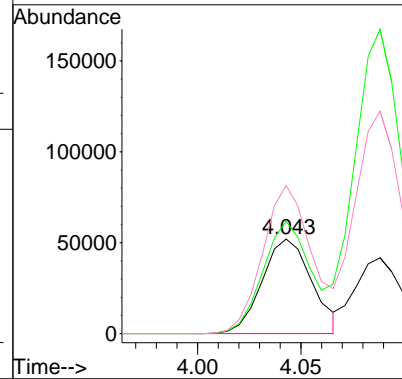
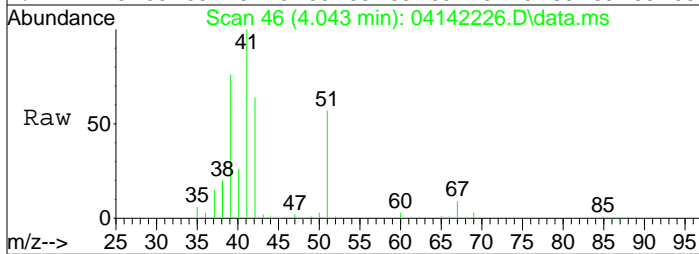
Quant Time: Apr 15 01:43:00 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M





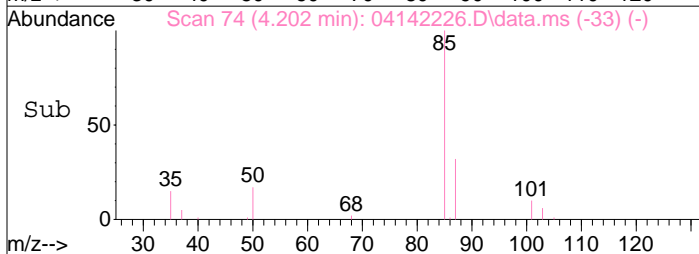
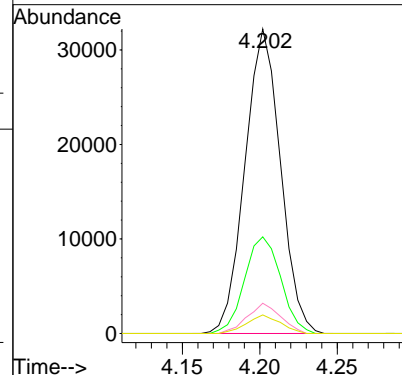
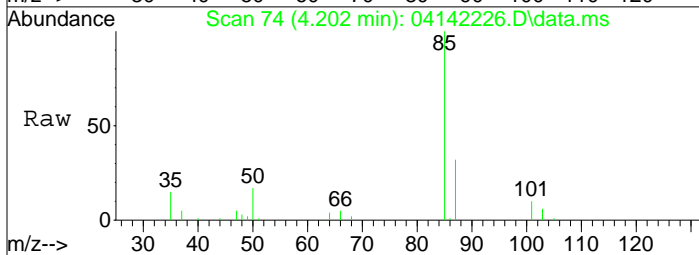
#2
 Propene
 Concen: 4.49 ng
 RT: 4.04 min Scan# 46
 Delta R.T. -0.017 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

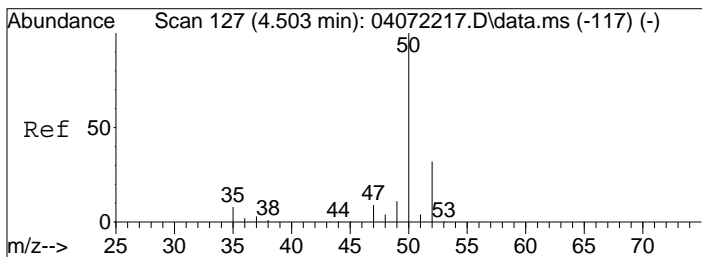
Tgt Ion:	Resp:	Lower	Upper
42	87179		
42	100		
39	111.6	96.7	136.7
41	156.1	132.4	172.4



#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.94 ng
 RT: 4.20 min Scan# 74
 Delta R.T. -0.017 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

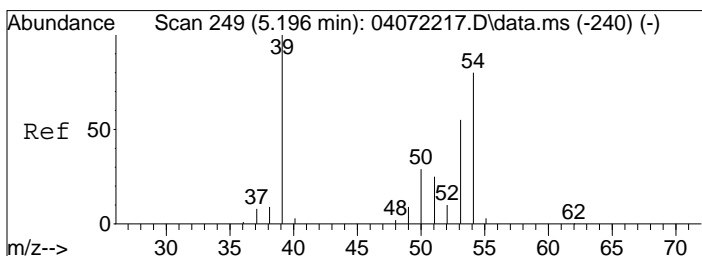
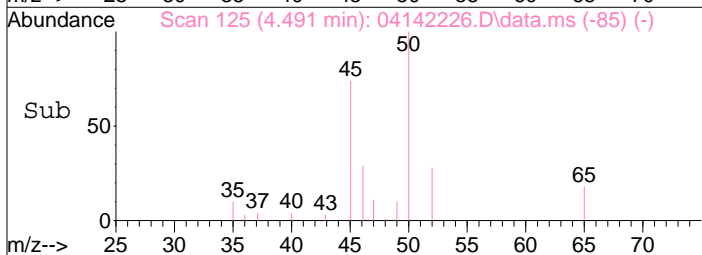
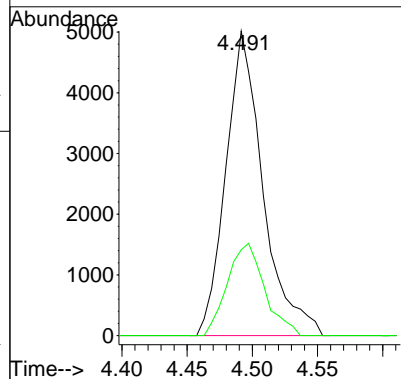
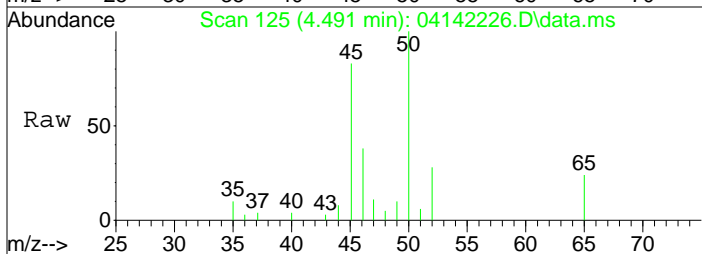
Tgt Ion:	Resp:	Lower	Upper
85	51476		
85	100		
87	32.3	12.2	52.2
101	9.3	0.0	29.3
103	5.8	0.0	26.0





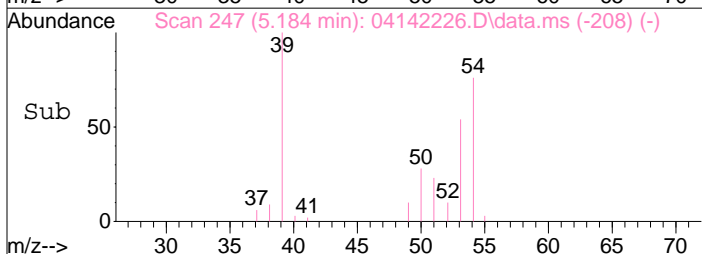
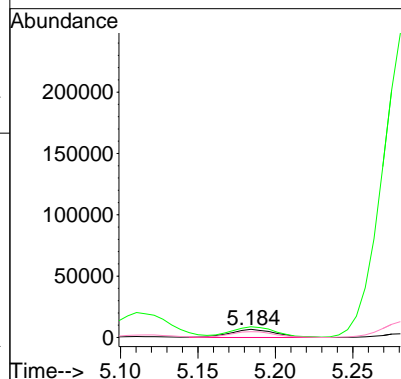
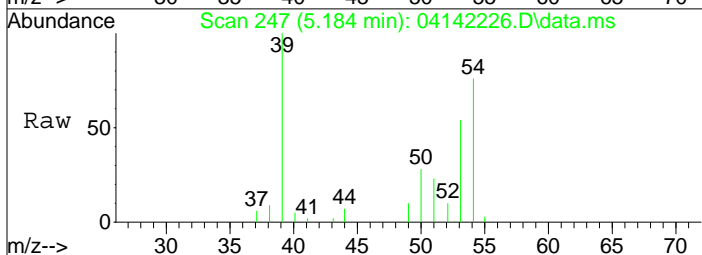
#4
 Chloromethane
 Concen: 0.45 ng
 RT: 4.49 min Scan# 125
 Delta R.T. -0.023 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

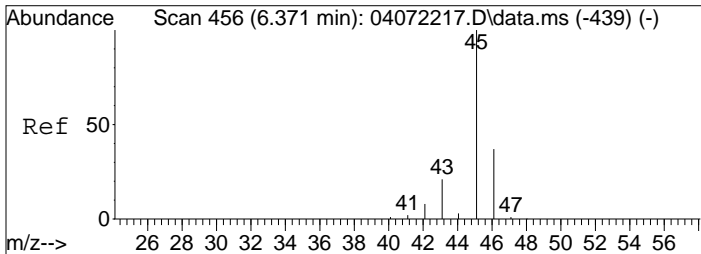
Tgt Ion	Resp	Lower	Upper
50	9924		
50	100		
52	30.3	11.8	51.8



#7
 1,3-Butadiene
 Concen: 0.81 ng
 RT: 5.18 min Scan# 247
 Delta R.T. -0.028 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

Tgt Ion	Resp	Lower	Upper
54	13382		
54	100		
39	133.2	111.2	151.2
53	72.7	50.6	90.6

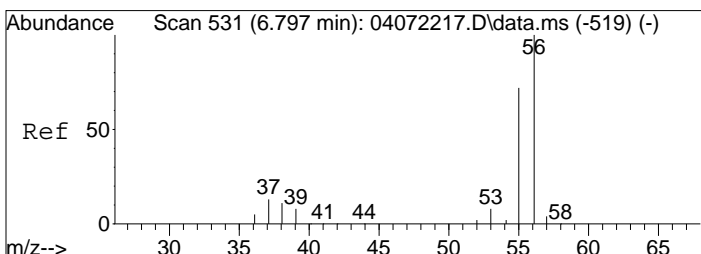
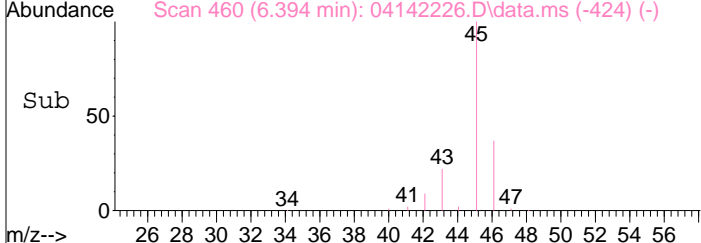
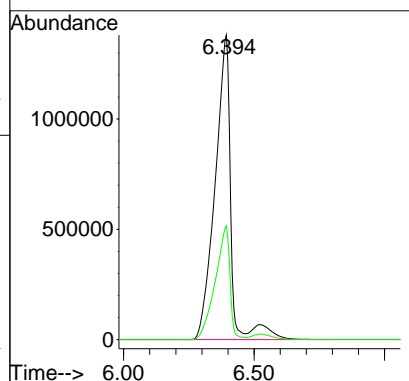
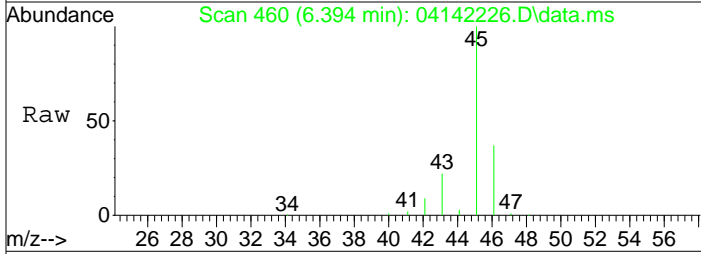




#10
 Ethanol
 Concen: 410.34 ng
 RT: 6.39 min Scan# 460
 Delta R.T. -0.045 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

Tgt Ion: 45 Resp: 5806300

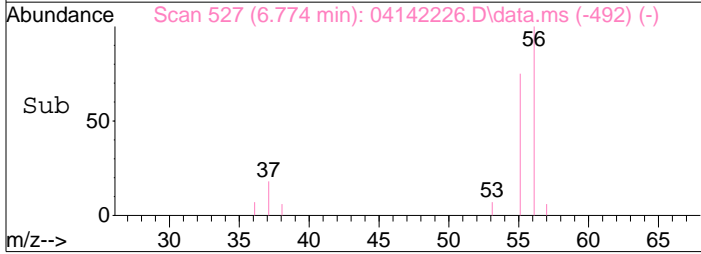
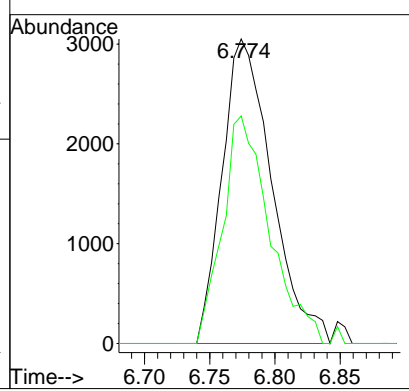
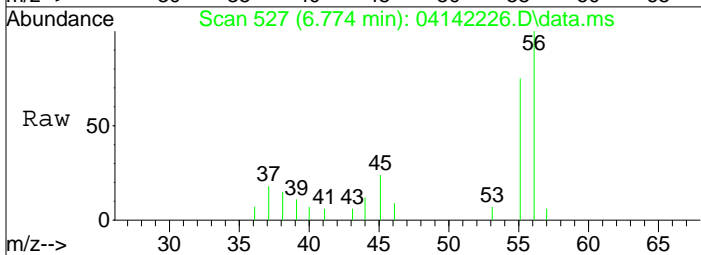
Ion	Ratio	Lower	Upper
45	100		
46	37.1	16.7	56.7

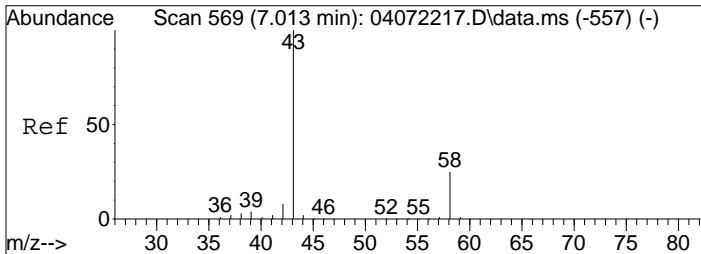


#12
 Acrolein
 Concen: 0.93 ng
 RT: 6.77 min Scan# 527
 Delta R.T. -0.051 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

Tgt Ion: 56 Resp: 8068

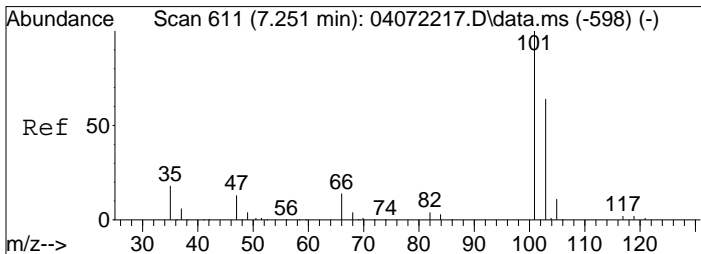
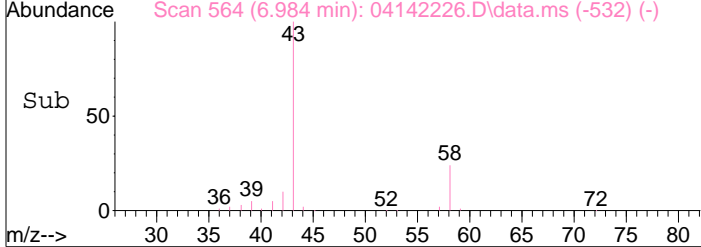
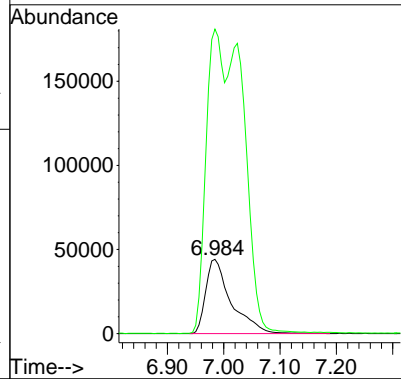
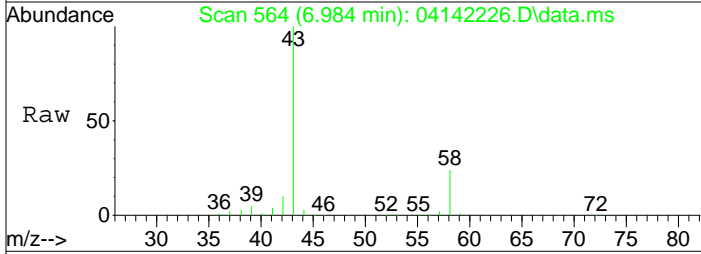
Ion	Ratio	Lower	Upper
56	100		
55	71.0	51.3	91.3





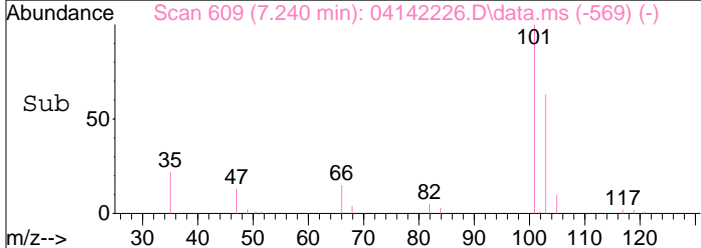
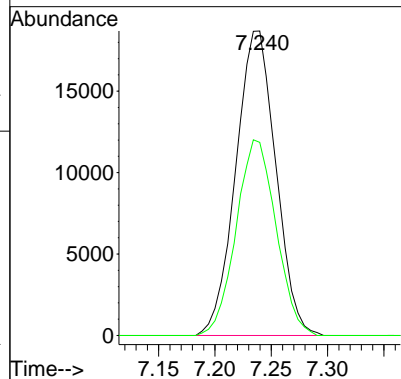
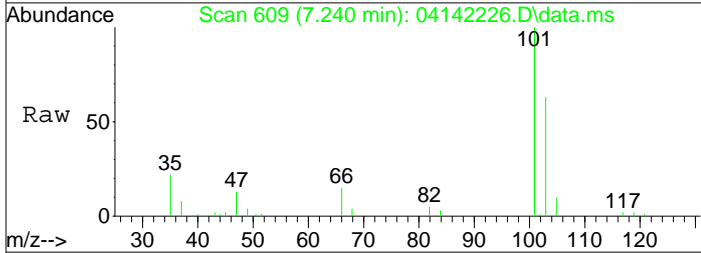
#13
 Acetone
 Concen: 12.47 ng
 RT: 6.98 min Scan# 564
 Delta R.T. -0.068 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

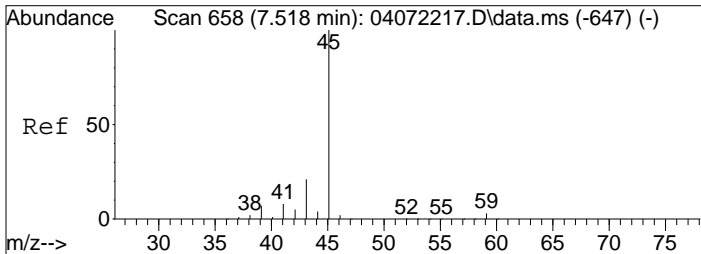
Tgt Ion: 58 Resp: 138909
 Ion Ratio Lower Upper
 58 100
 43 593.6 370.7 430.7#



#14
 Trichlorofluoromethane
 Concen: 1.87 ng
 RT: 7.24 min Scan# 609
 Delta R.T. -0.023 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

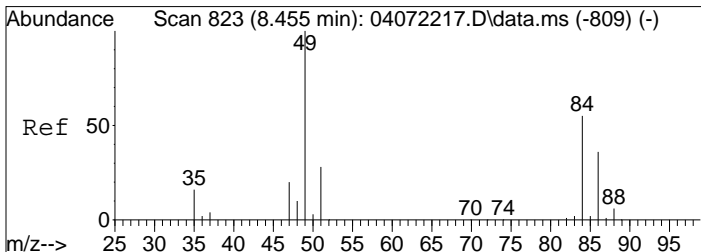
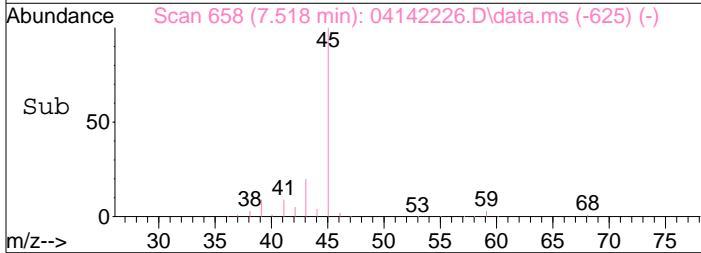
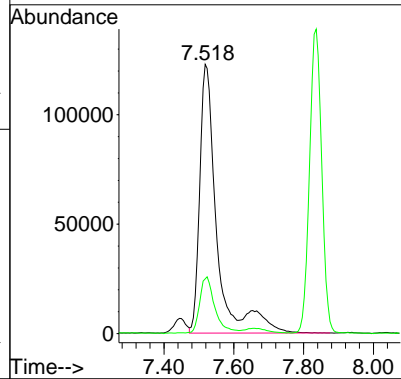
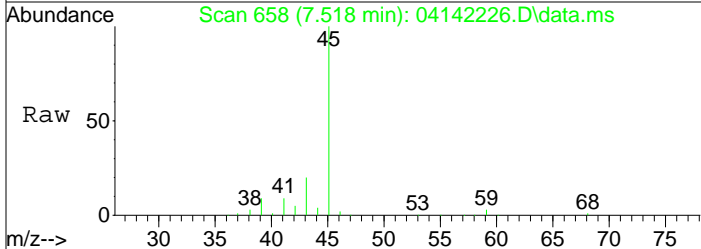
Tgt Ion: 101 Resp: 46327
 Ion Ratio Lower Upper
 101 100
 103 64.1 43.8 83.8





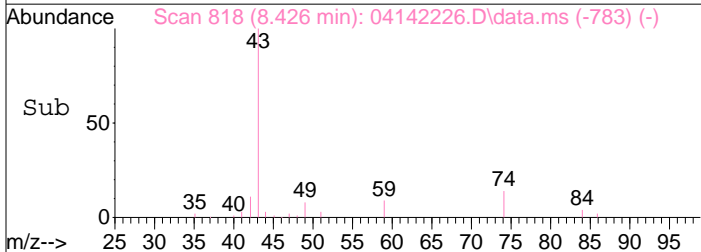
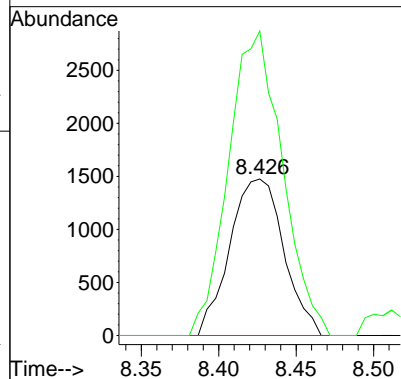
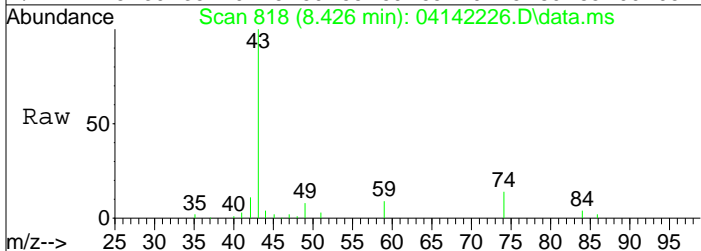
#15
 2-Propanol (Isopropanol)
 Concen: 9.52 ng
 RT: 7.52 min Scan# 658
 Delta R.T. -0.062 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

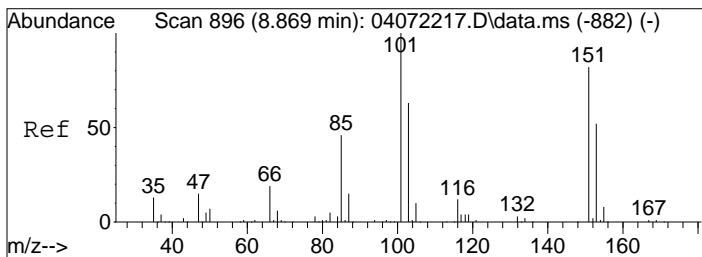
Tgt Ion: 45 Resp: 419232
 Ion Ratio Lower Upper
 45 100
 43 20.4 0.6 40.6



#19
 Methylene Chloride
 Concen: 0.31 ng
 RT: 8.43 min Scan# 818
 Delta R.T. -0.051 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

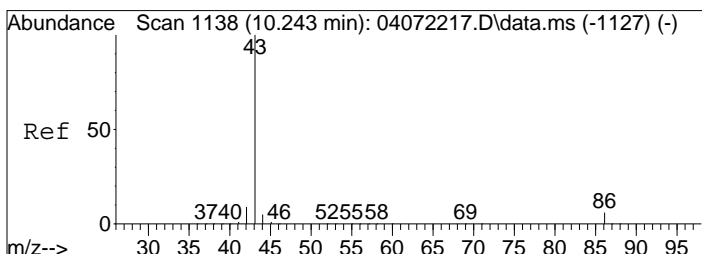
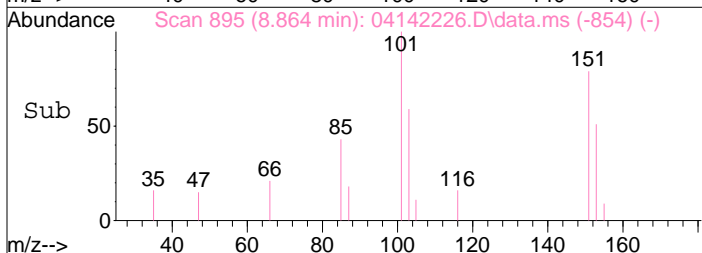
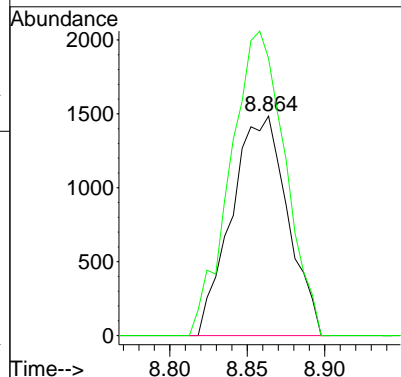
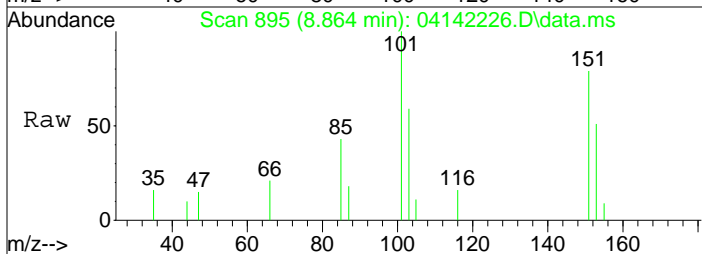
Tgt Ion: 84 Resp: 3586
 Ion Ratio Lower Upper
 84 100
 49 194.1 159.1 209.1





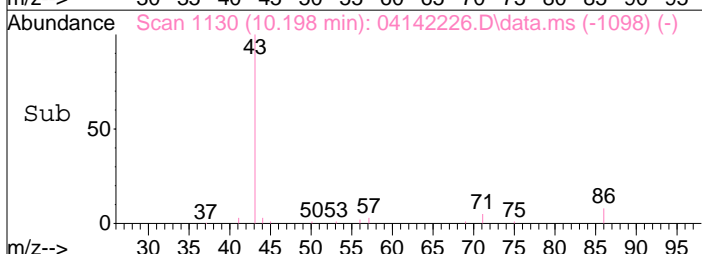
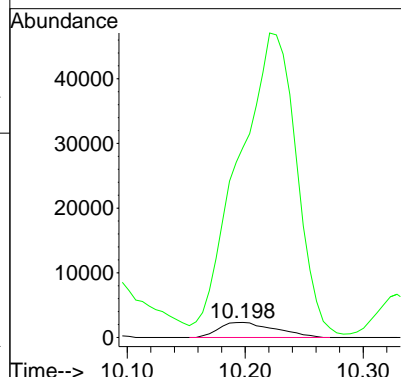
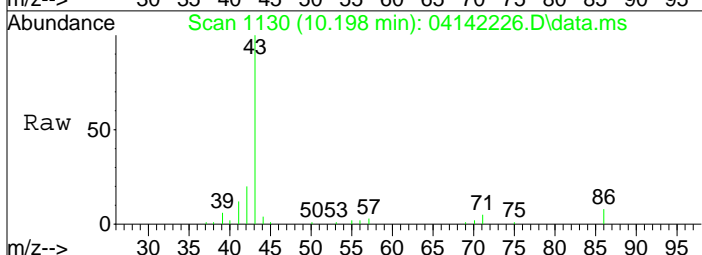
#21
 Trichlorotrifluoroethane
 Concen: 0.35 ng
 RT: 8.86 min Scan# 895
 Delta R.T. -0.017 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

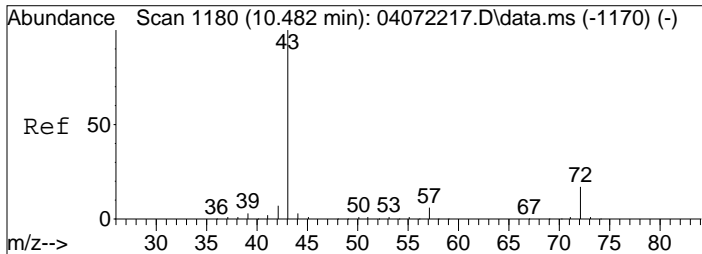
Tgt Ion: 151 Resp: 3734
 Ion Ratio Lower Upper
 151 100
 101 135.9 103.7 143.7



#26
 Vinyl Acetate
 Concen: 3.86 ng
 RT: 10.20 min Scan# 1130
 Delta R.T. -0.068 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

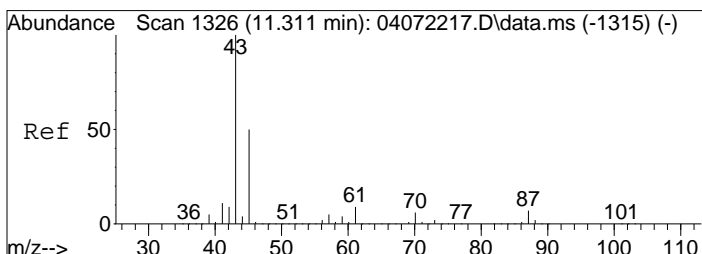
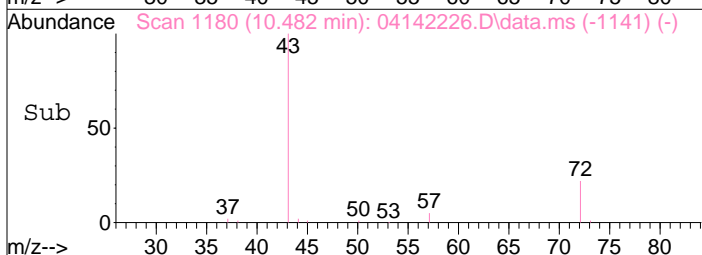
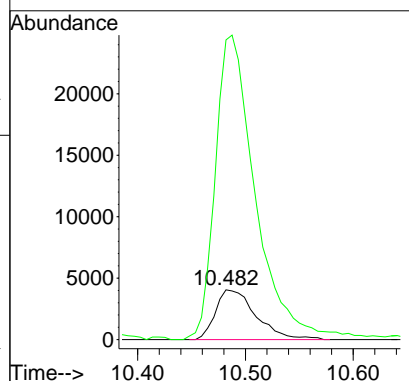
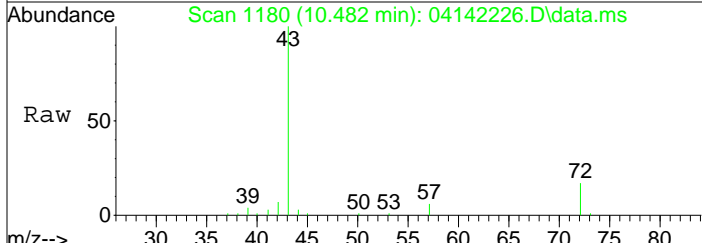
Tgt Ion: 86 Resp: 7724
 Ion Ratio Lower Upper
 86 100
 43 2080.8 1690.9 1730.9#





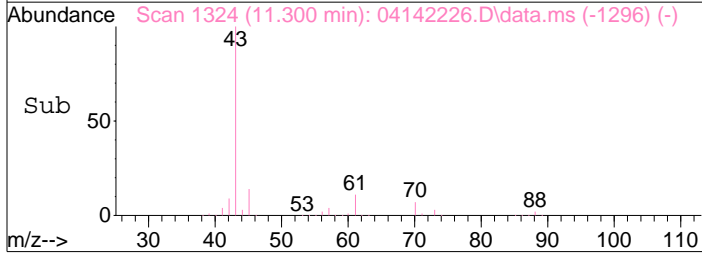
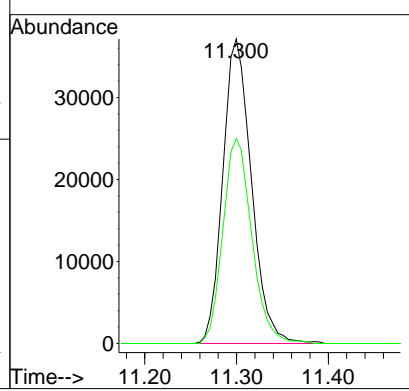
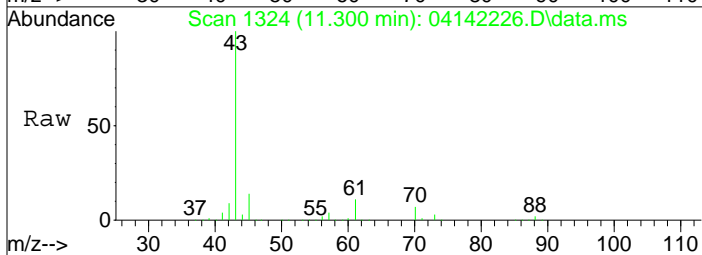
#27
 2-Butanone (MEK)
 Concen: 1.35 ng
 RT: 10.48 min Scan# 1180
 Delta R.T. -0.028 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

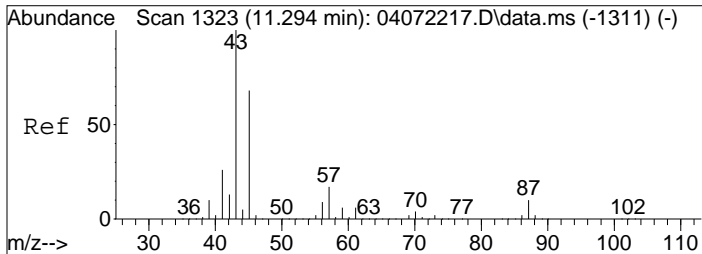
Tgt Ion	Resp	Lower	Upper
72	10539		
72	100		
43	612.5	565.1	605.1#



#30
 Ethyl Acetate
 Concen: 14.50 ng
 RT: 11.30 min Scan# 1324
 Delta R.T. -0.040 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

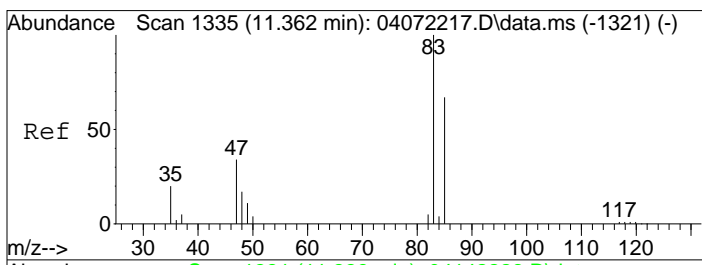
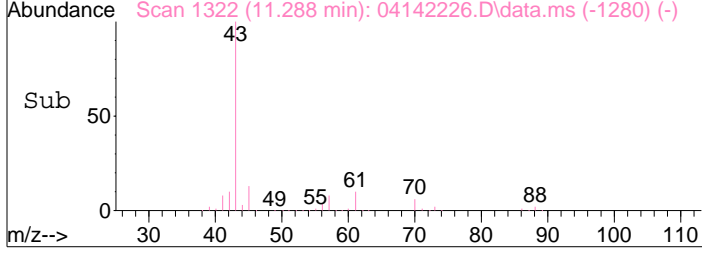
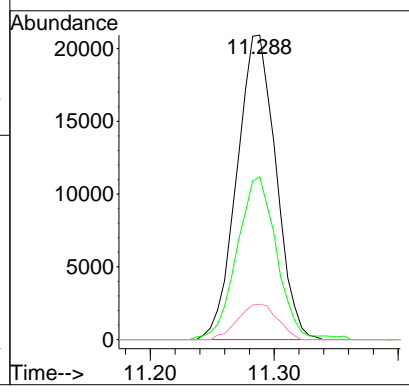
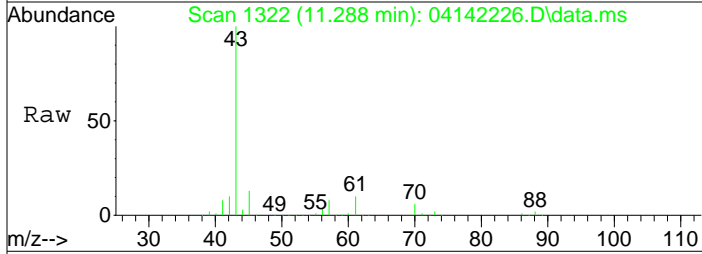
Tgt Ion	Resp	Lower	Upper
61	80585		
61	100		
70	67.9	50.8	90.8





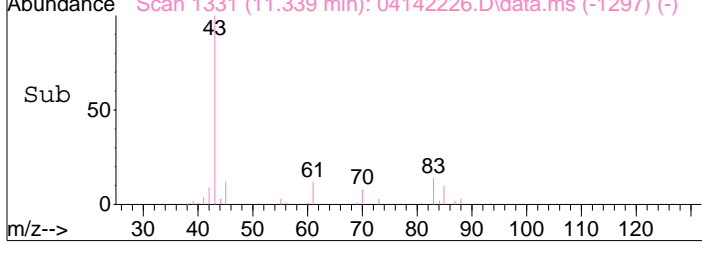
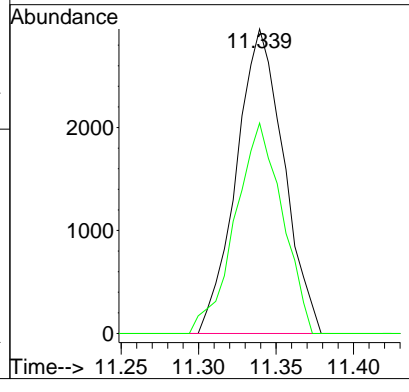
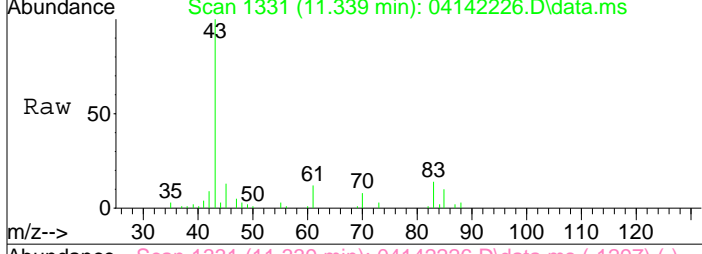
#31
 n-Hexane
 Concen: 1.83 ng
 RT: 11.29 min Scan# 1322
 Delta R.T. -0.011 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

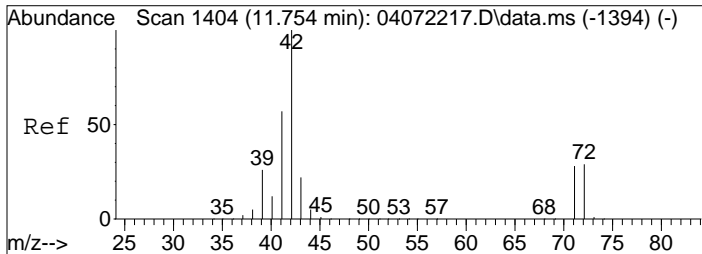
Tgt Ion:	Resp:	Lower	Upper
57	100		
56	54.4	41.4	62.2
86	11.9	9.9	14.9



#32
 Chloroform
 Concen: 0.29 ng
 RT: 11.34 min Scan# 1331
 Delta R.T. -0.057 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

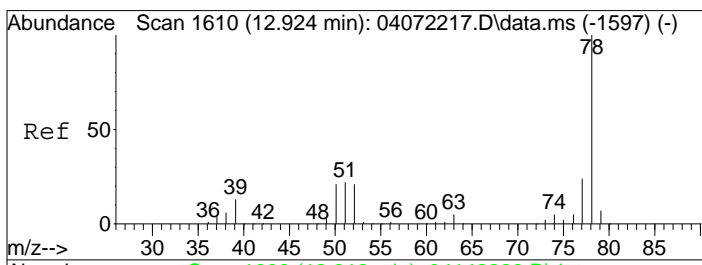
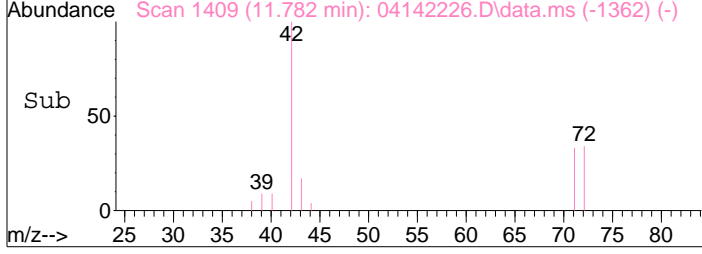
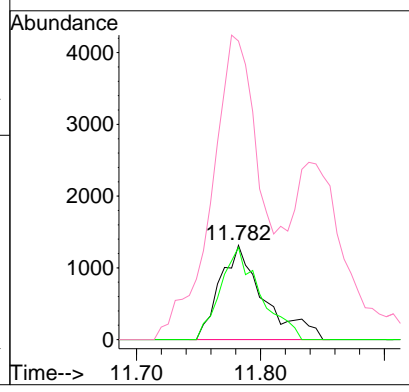
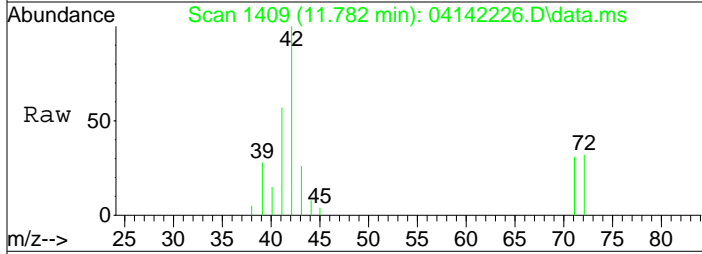
Tgt Ion:	Resp:	Lower	Upper
83	100		
85	68.8	47.1	87.1





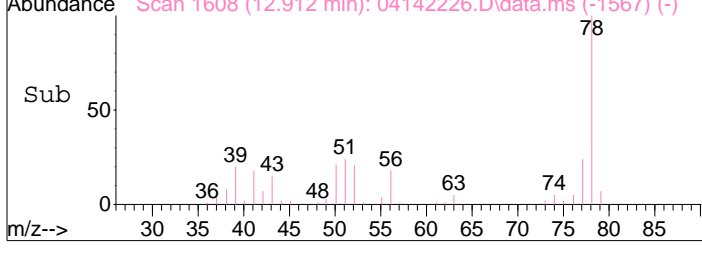
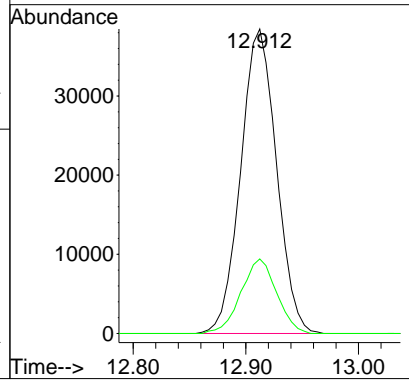
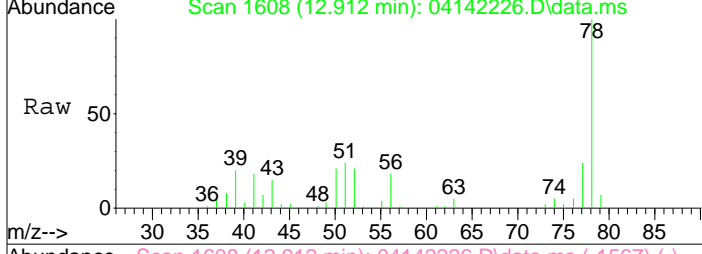
#34
 Tetrahydrofuran (THF)
 Concen: 0.43 ng
 RT: 11.78 min Scan# 1409
 Delta R.T. 0.017 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

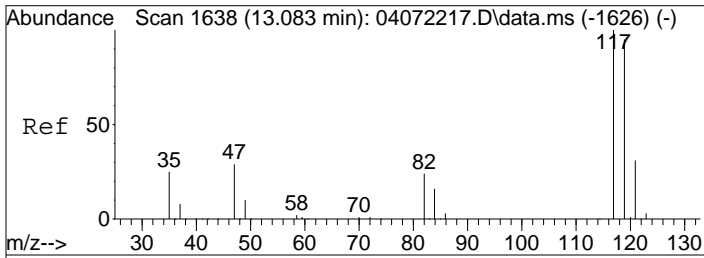
Tgt Ion:	Resp:	Lower	Upper
72	3247		
71	88.9	77.0	117.0
42	379.6	325.1	365.1#



#41
 Benzene
 Concen: 1.76 ng
 RT: 12.91 min Scan# 1608
 Delta R.T. -0.017 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

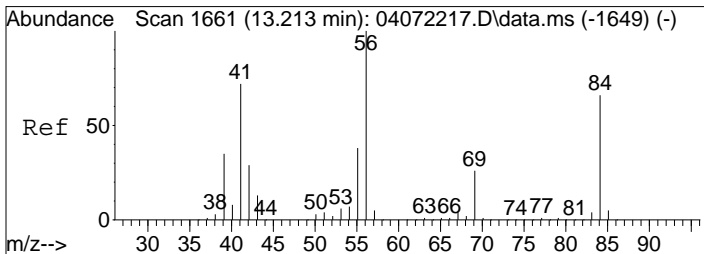
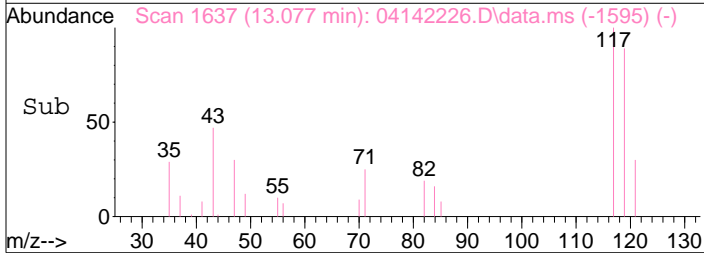
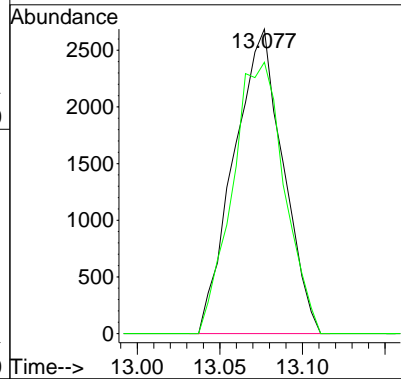
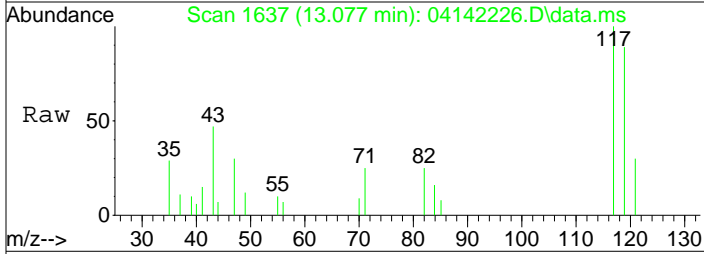
Tgt Ion:	Resp:	Lower	Upper
78	84946		
77	24.4	3.9	43.9





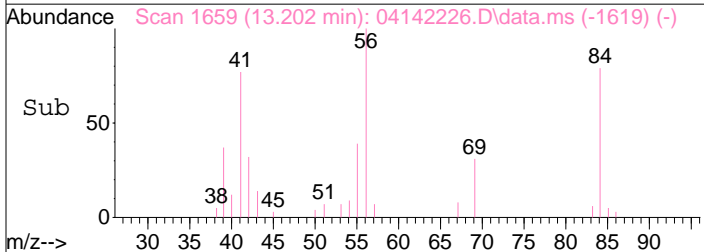
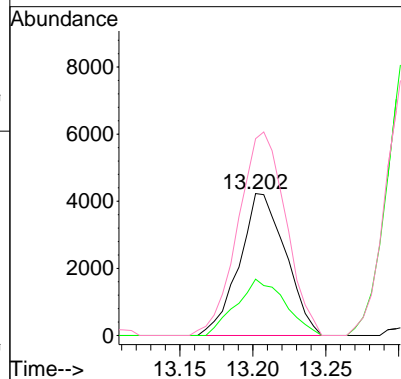
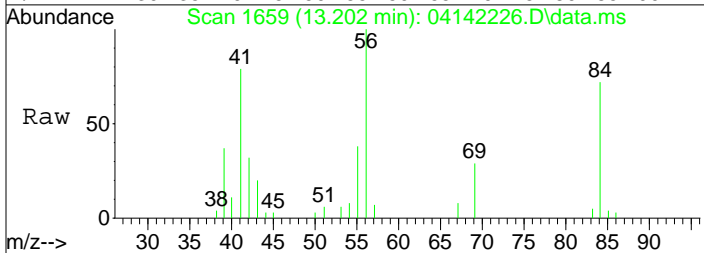
#42
 Carbon Tetrachloride
 Concen: 0.30 ng
 RT: 13.08 min Scan# 1637
 Delta R.T. -0.011 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

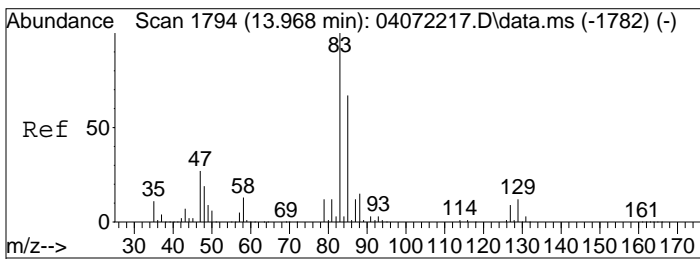
Tgt Ion: 117 Resp: 5573
 Ion Ratio Lower Upper
 117 100
 119 93.9 75.0 115.0



#43
 Cyclohexane
 Concen: 0.50 ng
 RT: 13.20 min Scan# 1659
 Delta R.T. -0.023 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

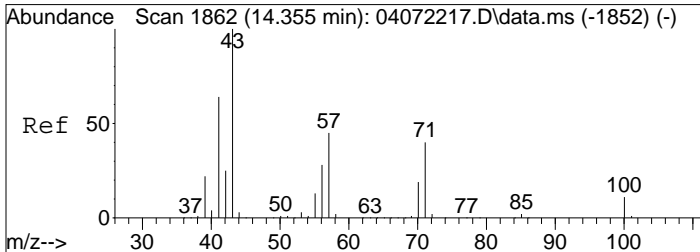
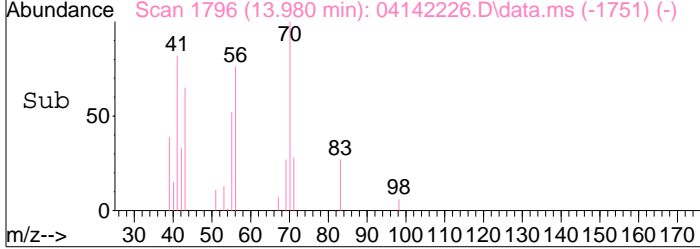
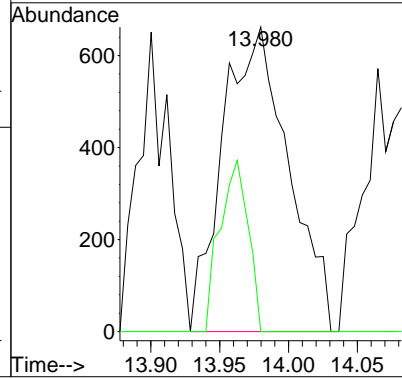
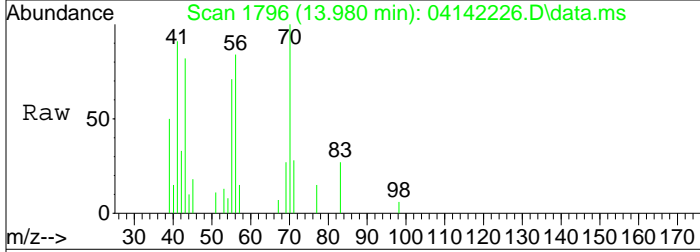
Tgt Ion: 84 Resp: 9338
 Ion Ratio Lower Upper
 84 100
 69 41.7 18.6 58.6
 56 147.8 128.4 168.4





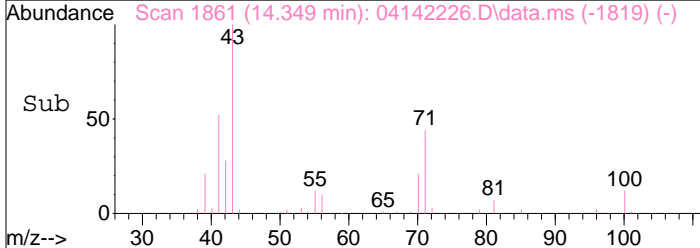
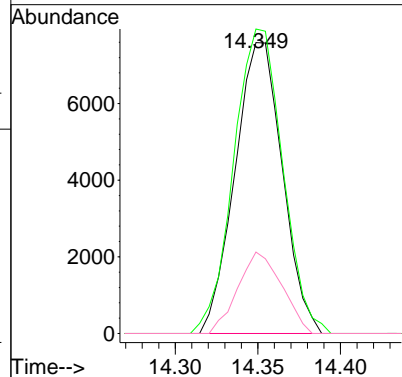
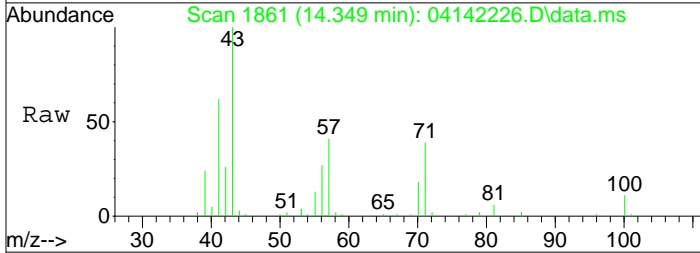
#46
 Bromodichloromethane
 Concen: 0.13 ng
 RT: 13.98 min Scan# 1796
 Delta R.T. 0.006 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

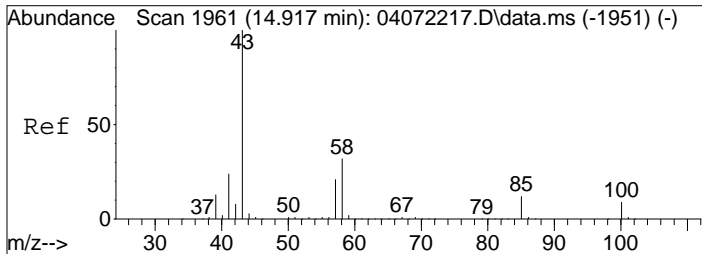
Tgt Ion: 83 Resp: 2206
 Ion Ratio Lower Upper
 83 100
 85 24.1 46.2 86.2#



#51
 n-Heptane
 Concen: 1.20 ng
 RT: 14.35 min Scan# 1861
 Delta R.T. -0.011 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

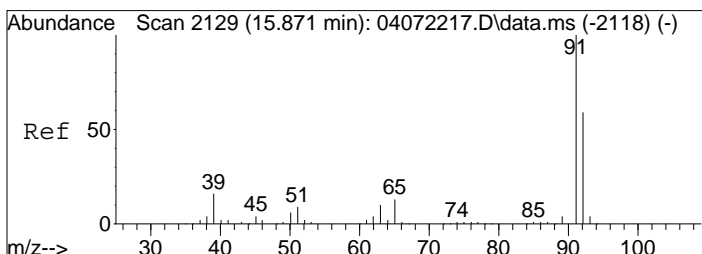
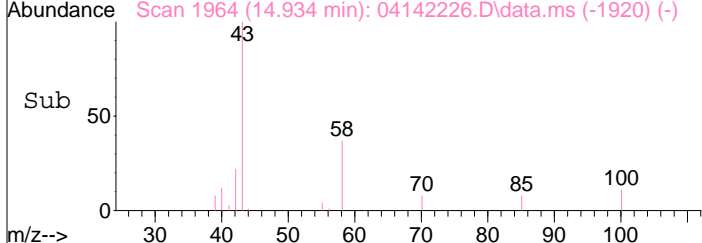
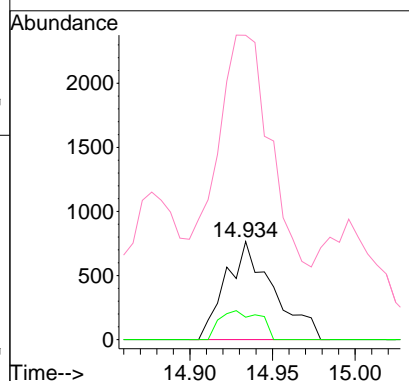
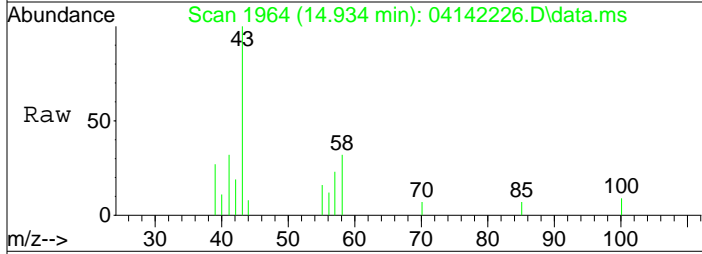
Tgt Ion: 71 Resp: 15180
 Ion Ratio Lower Upper
 71 100
 57 107.8 89.9 129.9
 100 25.8 7.5 47.5





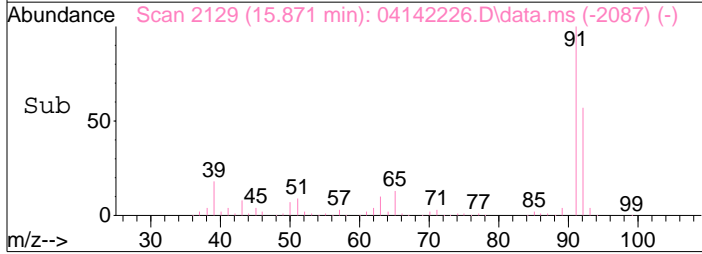
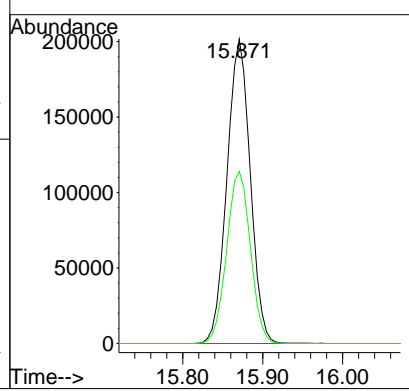
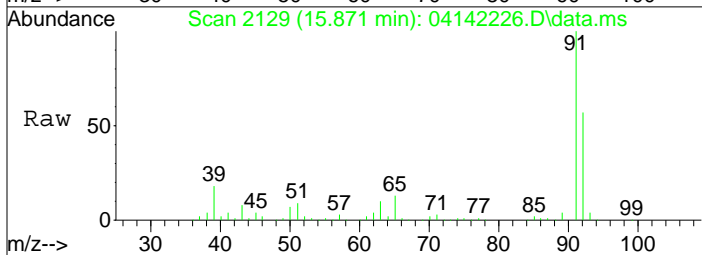
#53
 4-Methyl-2-pentanone
 Concen: 0.11 ng
 RT: 14.93 min Scan# 1964
 Delta R.T. -0.000 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

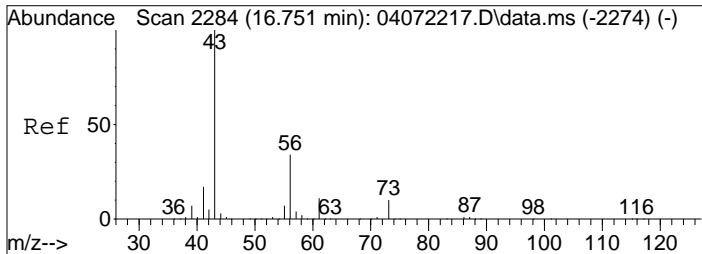
Tgt Ion	Resp	Lower	Upper
58	1531		
58	100		
85	25.1	31.0	46.4#
43	370.3	251.1	376.7



#58
 Toluene
 Concen: 7.49 ng
 RT: 15.87 min Scan# 2129
 Delta R.T. -0.011 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

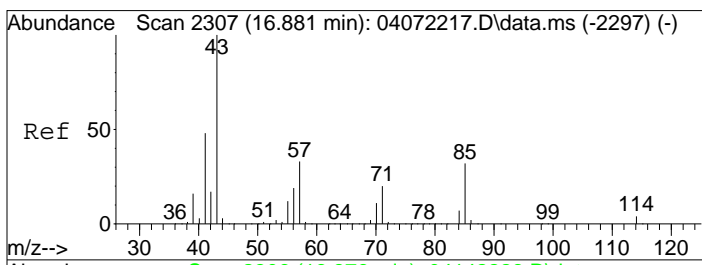
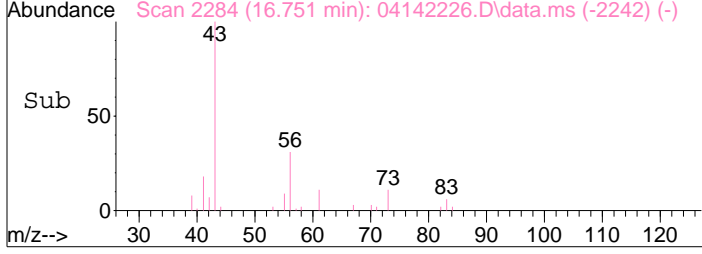
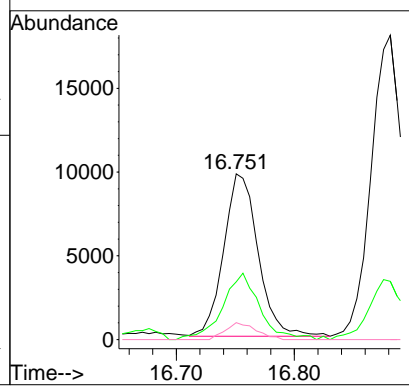
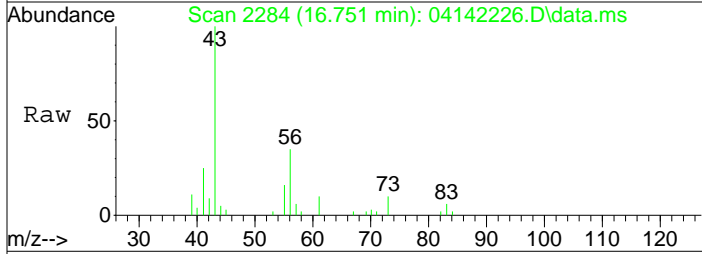
Tgt Ion	Resp	Lower	Upper
91	408024		
91	100		
92	57.5	38.3	78.3





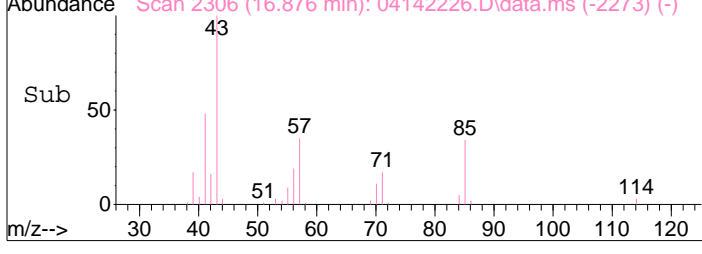
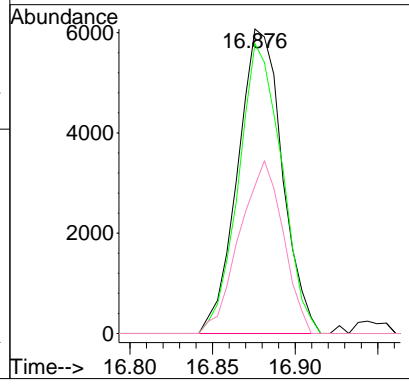
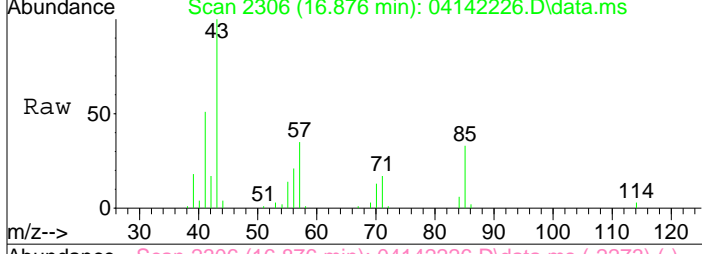
#62
 n-Butyl Acetate
 Concen: 0.43 ng
 RT: 16.75 min Scan# 2284
 Delta R.T. -0.011 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

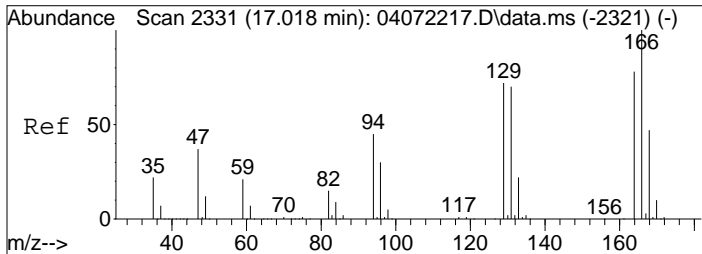
Tgt Ion	Resp	Lower	Upper
43	19661		
56	43.7	13.8	53.8
73	9.3	0.0	29.9



#63
 n-Octane
 Concen: 0.83 ng
 RT: 16.88 min Scan# 2306
 Delta R.T. -0.011 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

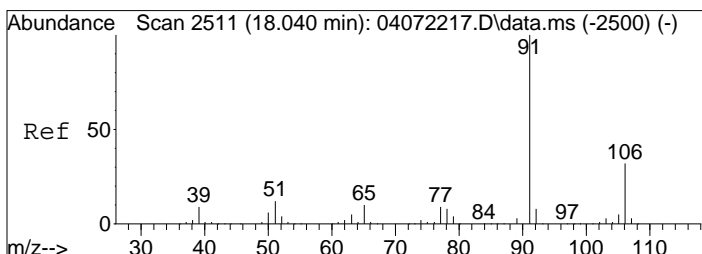
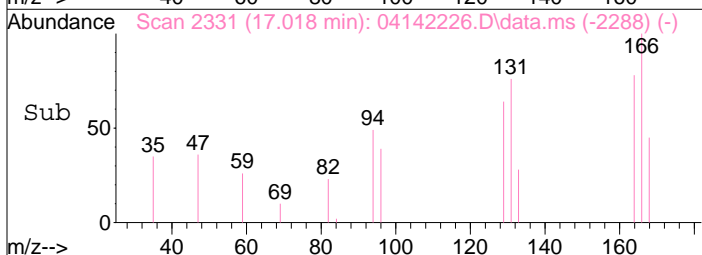
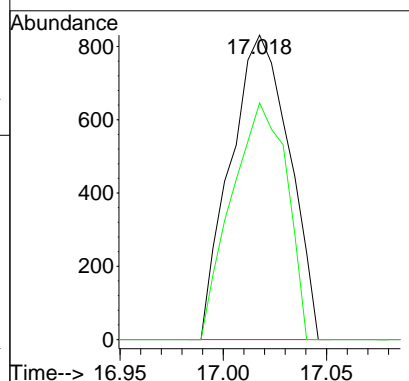
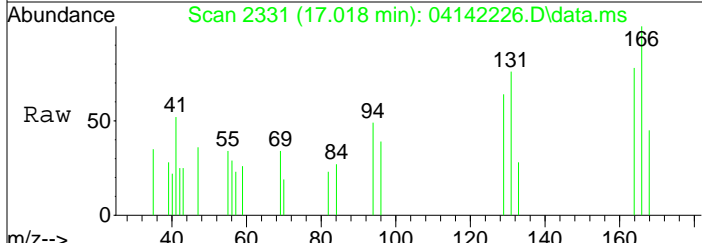
Tgt Ion	Resp	Lower	Upper
57	11385		
85	92.1	77.4	116.0
71	55.4	47.0	70.6





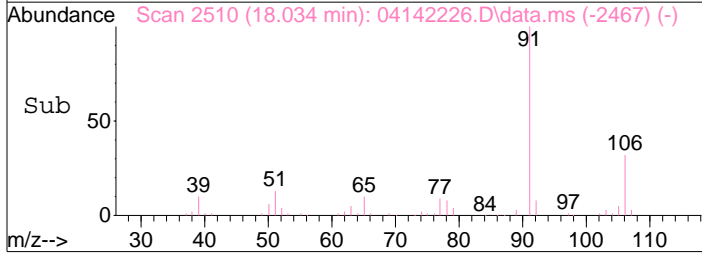
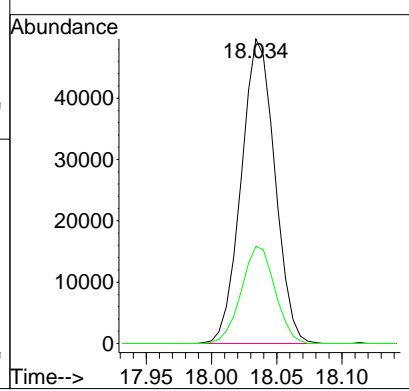
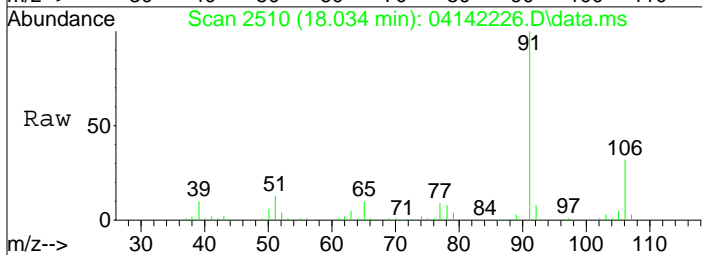
#64
 Tetrachloroethene
 Concen: 0.11 ng
 RT: 17.02 min Scan# 2331
 Delta R.T. -0.006 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

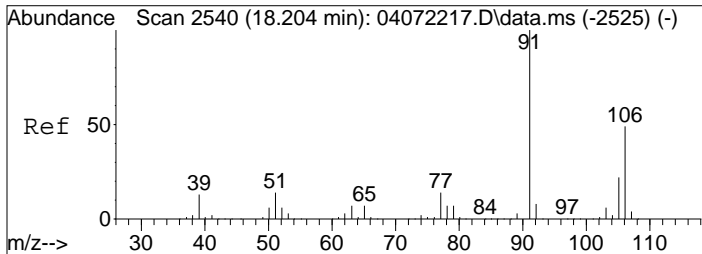
Tgt Ion	Resp	Lower	Upper
166	100		
164	72.7	57.8	97.8



#66
 Ethylbenzene
 Concen: 1.44 ng
 RT: 18.03 min Scan# 2510
 Delta R.T. -0.006 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

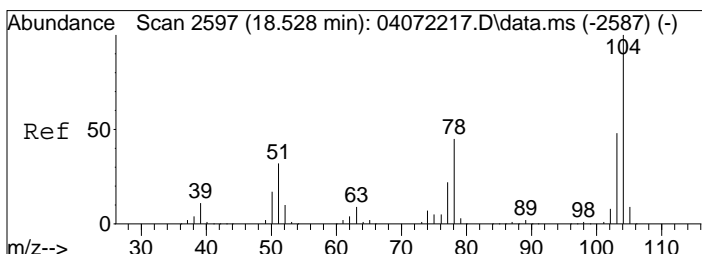
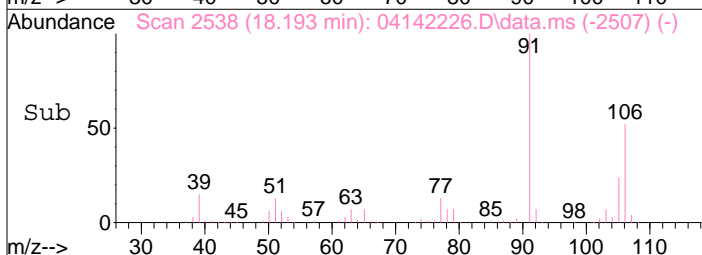
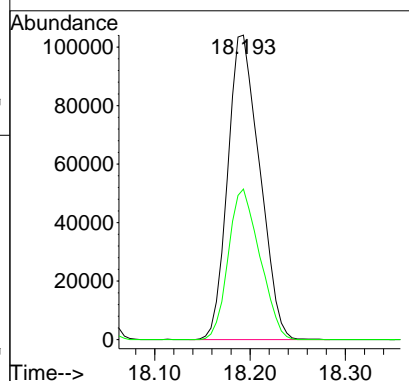
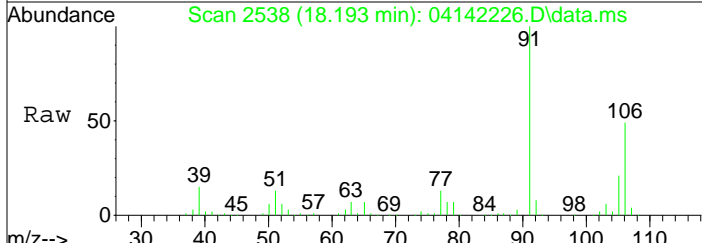
Tgt Ion	Resp	Lower	Upper
91	100		
106	31.9	11.6	51.6





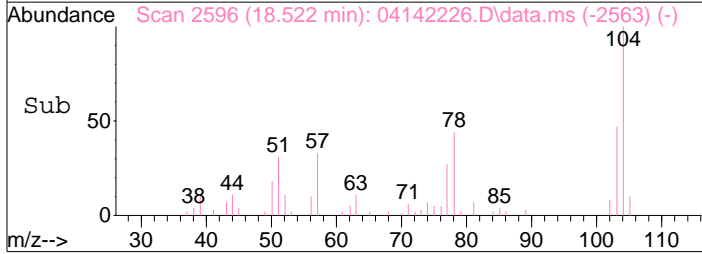
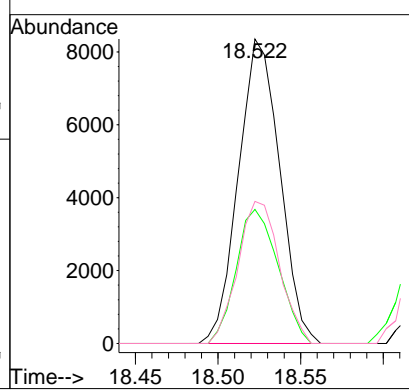
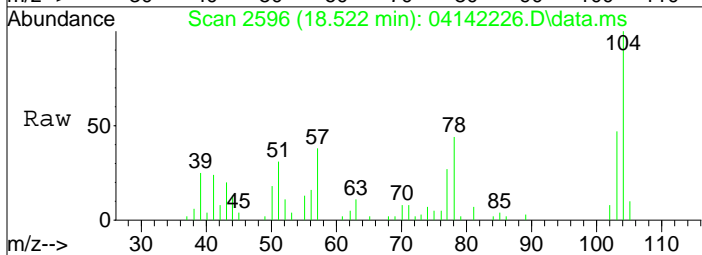
#67
 m- & p-Xylenes
 Concen: 4.86 ng
 RT: 18.19 min Scan# 2538
 Delta R.T. -0.023 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

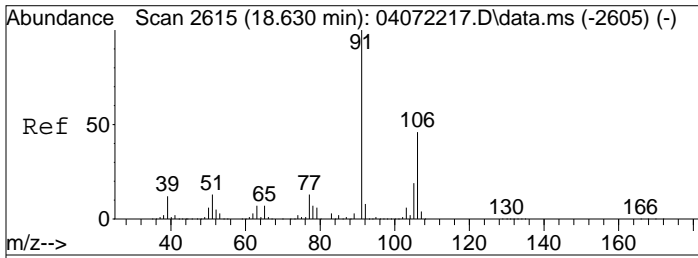
Tgt Ion	Resp	Lower	Upper
91	242179	100	
106	48.8	28.3	68.3



#69
 Styrene
 Concen: 0.41 ng
 RT: 18.52 min Scan# 2596
 Delta R.T. -0.011 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

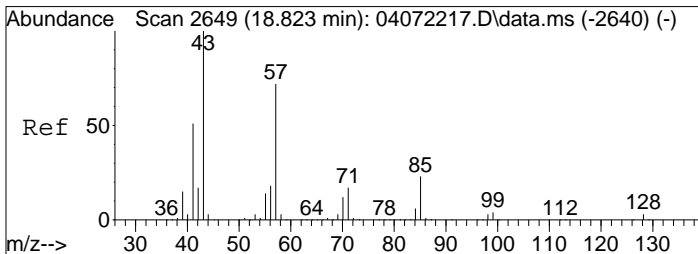
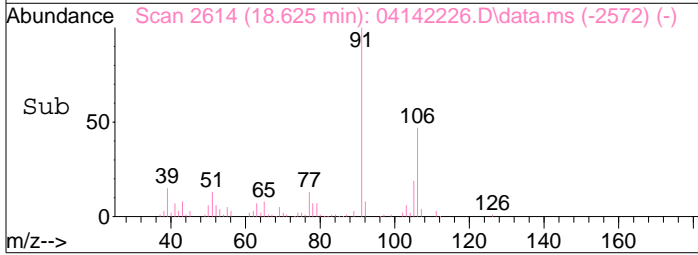
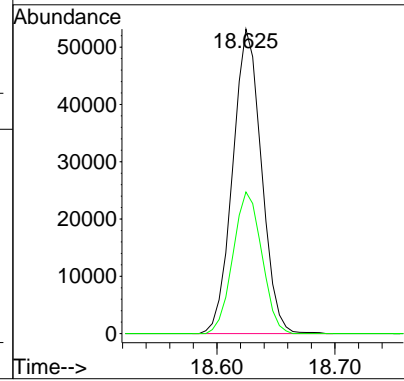
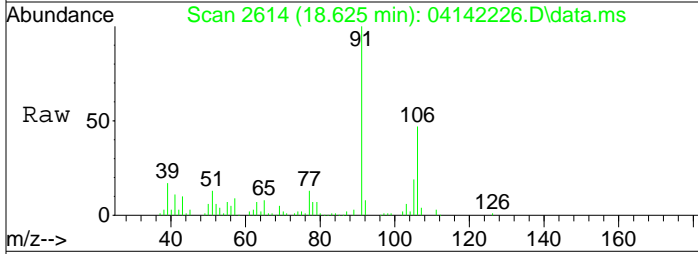
Tgt Ion	Resp	Lower	Upper
104	14549	100	
78	44.6	24.9	64.9
103	46.9	28.2	68.2





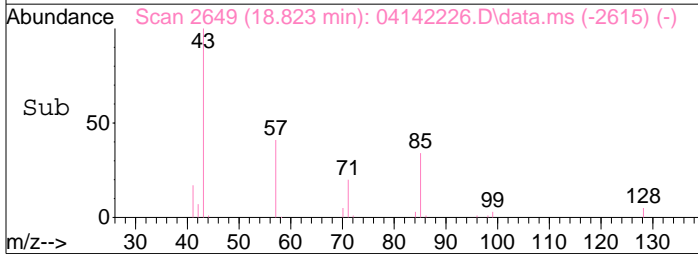
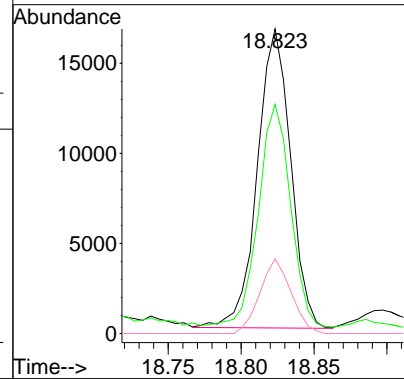
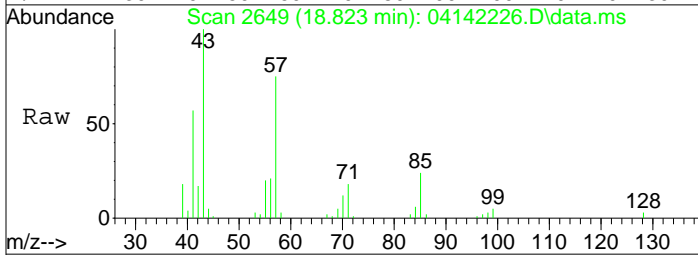
#70
 o-Xylene
 Concen: 1.79 ng
 RT: 18.62 min Scan# 2614
 Delta R.T. -0.011 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

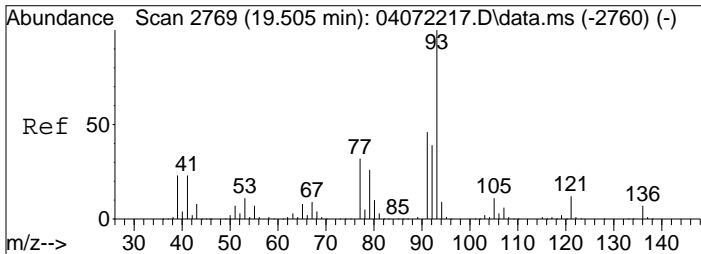
Tgt Ion	Resp	Lower	Upper
91	100		
106	46.6	26.5	66.5



#71
 n-Nonane
 Concen: 0.68 ng
 RT: 18.82 min Scan# 2649
 Delta R.T. -0.006 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

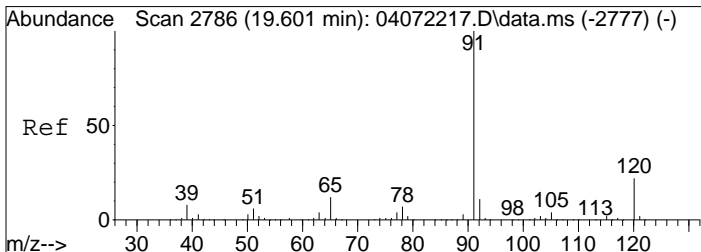
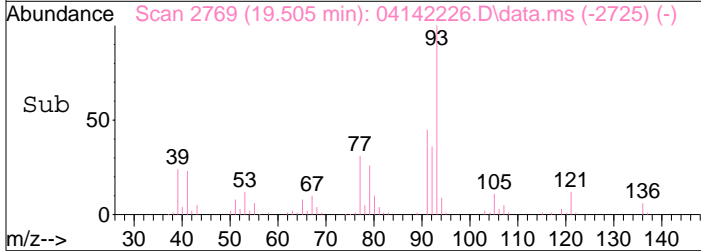
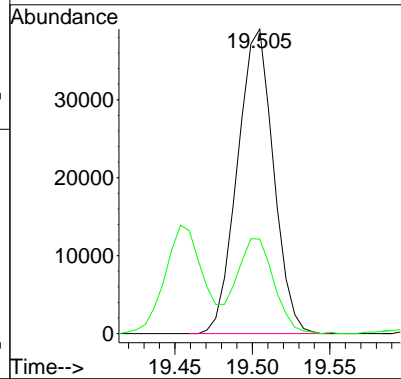
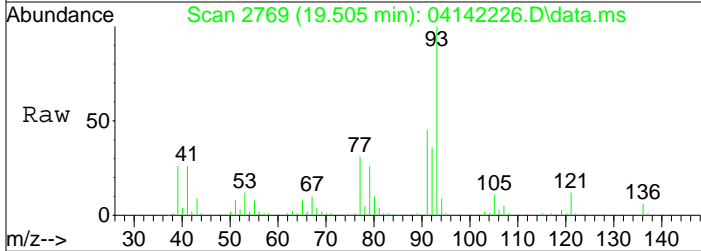
Tgt Ion	Resp	Lower	Upper
43	100		
57	72.8	52.5	92.5
85	23.2	3.6	43.6





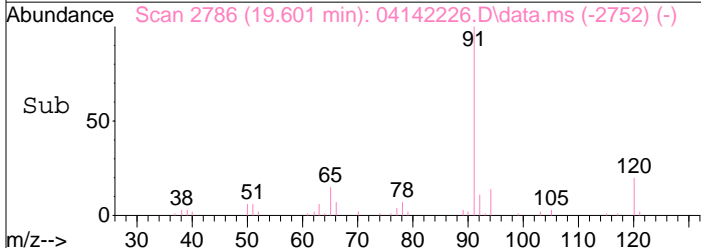
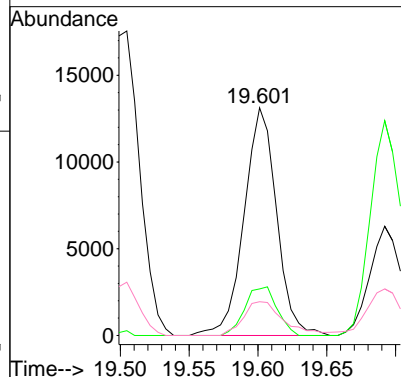
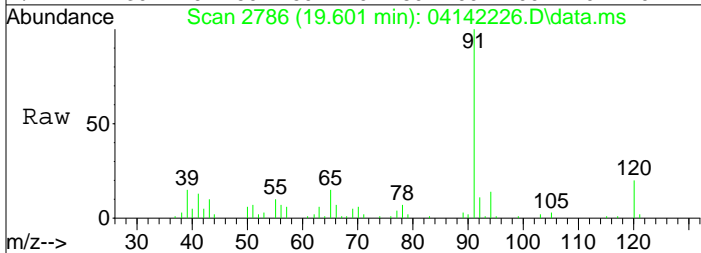
#75
 alpha-Pinene
 Concen: 2.10 ng
 RT: 19.50 min Scan# 2769
 Delta R.T. 0.000 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

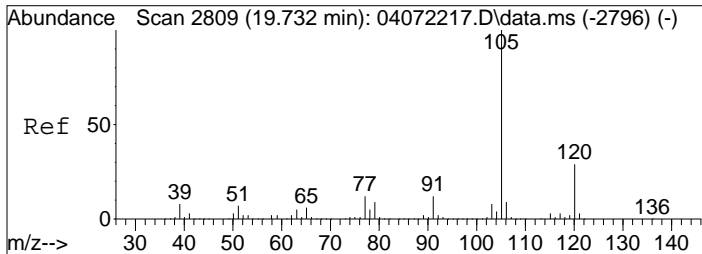
Tgt Ion	Resp	Lower	Upper
93	63221		
93	100		
77	33.4	12.7	52.7



#76
 n-Propylbenzene
 Concen: 0.28 ng
 RT: 19.60 min Scan# 2786
 Delta R.T. -0.006 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

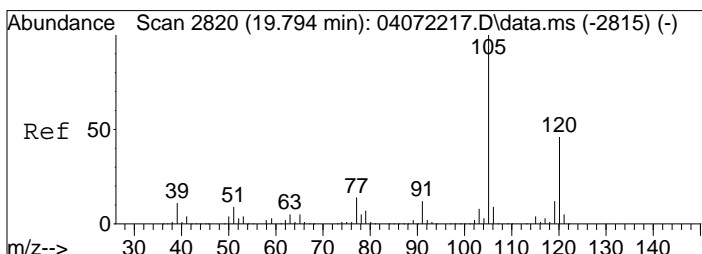
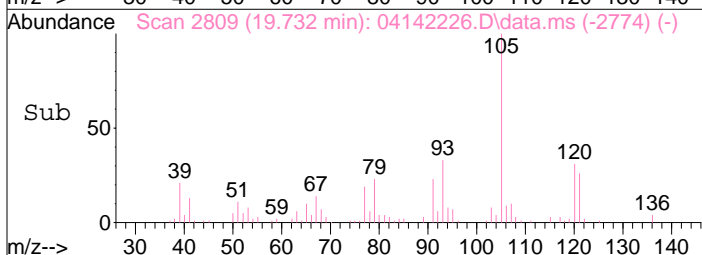
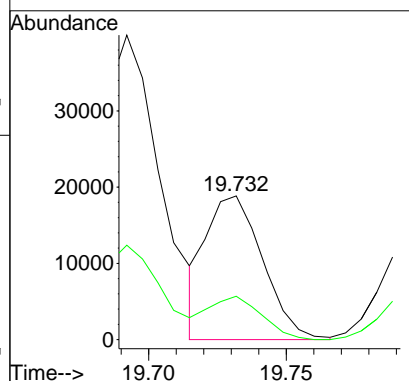
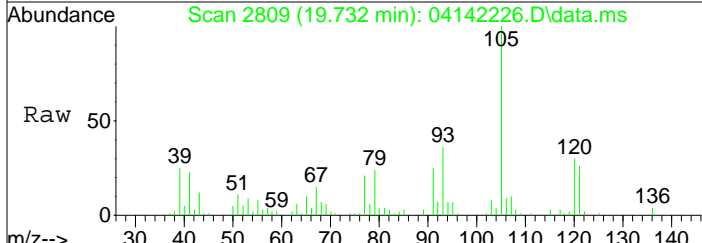
Tgt Ion	Resp	Lower	Upper
91	21621		
91	100		
120	21.0	2.3	42.3
65	18.4	0.0	31.8





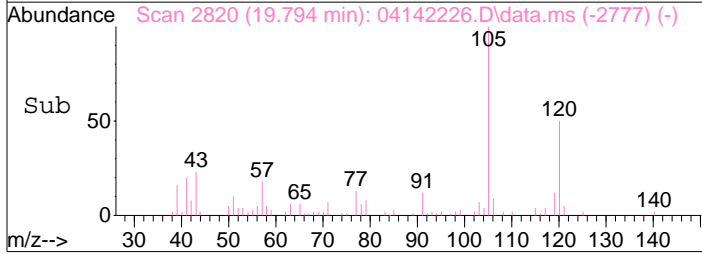
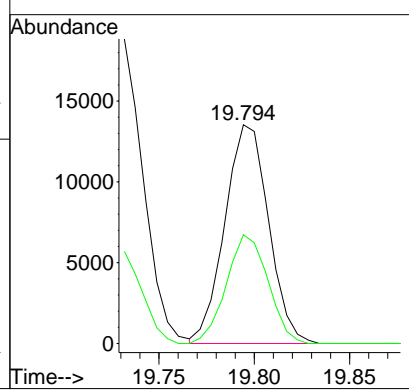
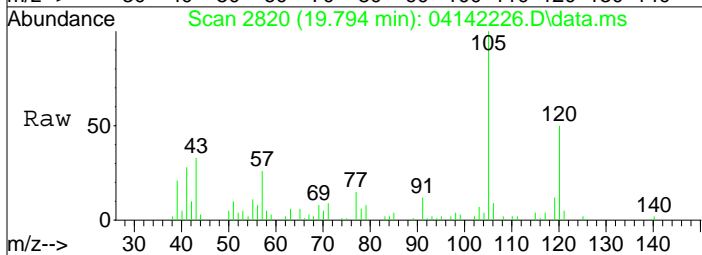
#78
 4-Ethyltoluene
 Concen: 0.44 ng
 RT: 19.73 min Scan# 2809
 Delta R.T. 0.000 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

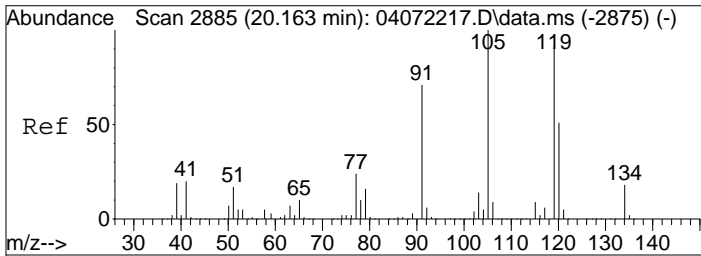
Tgt Ion	Resp	Lower	Upper
105	27028	100	100
120	28.8	9.4	49.4



#79
 1,3,5-Trimethylbenzene
 Concen: 0.41 ng
 RT: 19.79 min Scan# 2820
 Delta R.T. -0.006 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

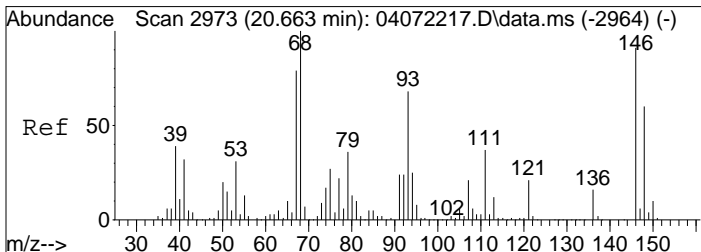
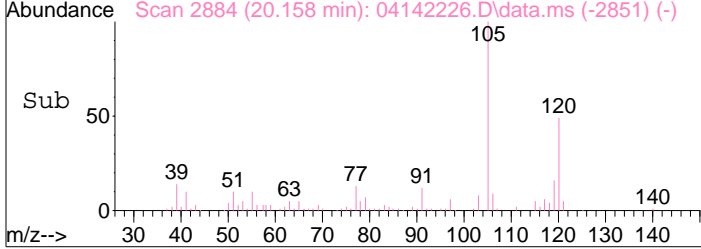
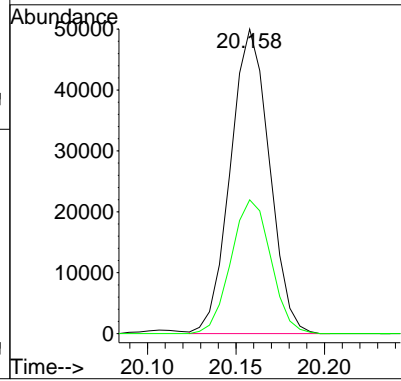
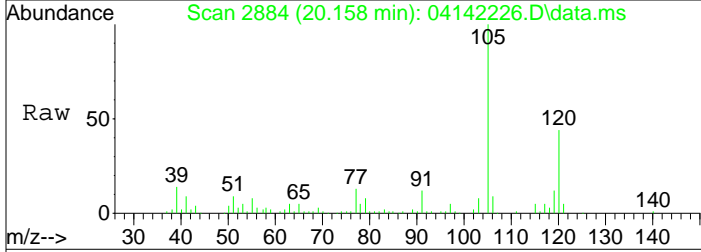
Tgt Ion	Resp	Lower	Upper
105	21618	100	100
120	47.2	27.1	67.1





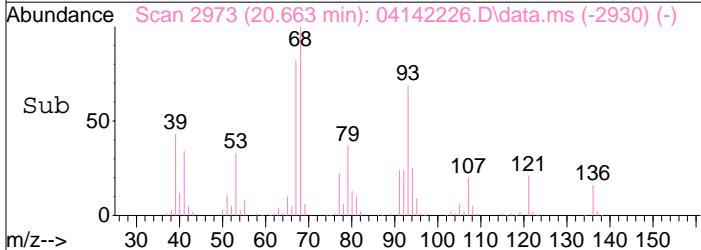
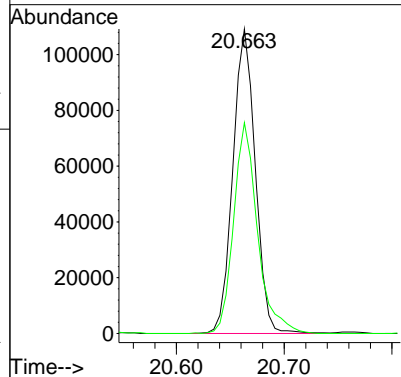
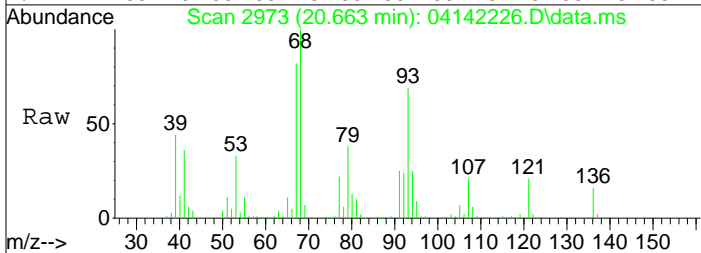
#82
 1,2,4-Trimethylbenzene
 Concen: 1.42 ng
 RT: 20.16 min Scan# 2884
 Delta R.T. -0.011 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

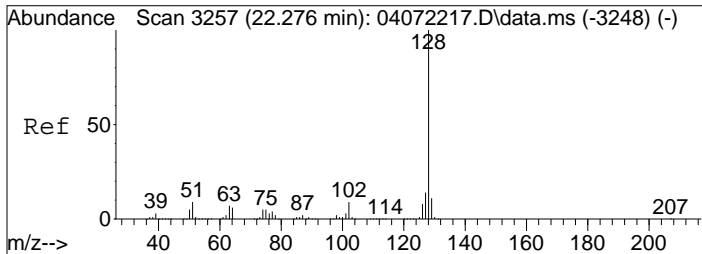
Tgt Ion:105 Resp: 76460
 Ion Ratio Lower Upper
 105 100
 120 44.9 31.1 71.1



#91
 d-Limonene
 Concen: 7.89 ng
 RT: 20.66 min Scan# 2973
 Delta R.T. -0.006 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

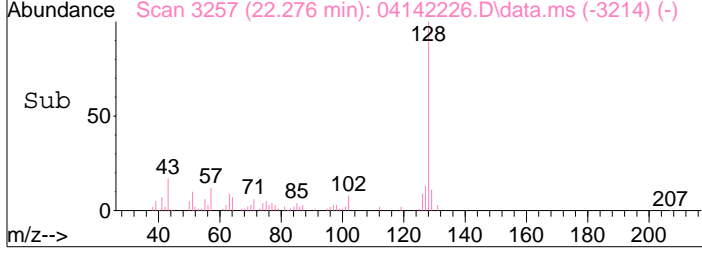
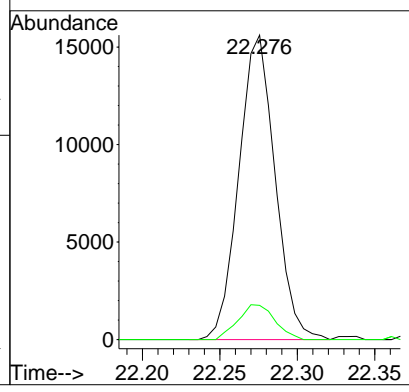
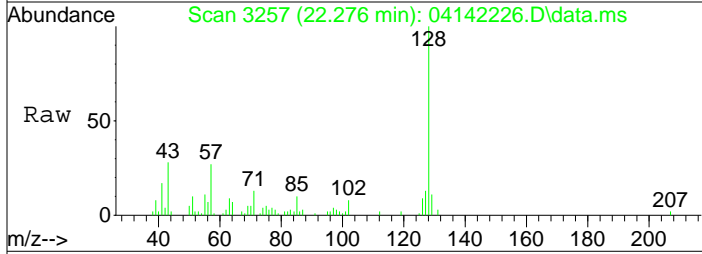
Tgt Ion: 68 Resp: 157819
 Ion Ratio Lower Upper
 68 100
 93 73.8 48.9 88.9





#95
 Naphthalene
 Concen: 0.38 ng
 RT: 22.28 min Scan# 3257
 Delta R.T. -0.005 min
 Lab File: 04142226.D
 Acq: 14 Apr 2022 20:32

Tgt Ion	Resp	Lower	Upper
128	100		
129	11.7	0.0	31.1



Data File : I:\MS09\DATA\2022 04\15\04152217.D
 Acq On : 15 Apr 2022 13:52
 Sample : P2201602-008dil (200mL)
 Misc : S35-04132201

Vial: 16
 Operator: WA/CG
 Inst : MS09

Quant Time: Apr 17 18:41:47 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

4/17/22

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	11.17	130	120680	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	13.31	114	536974	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.64	54	145036	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.03	65	241316	13.073	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery =	104.56%		
57) Toluene-d8 (SS2)	15.77	98	642776	12.163	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery =	97.28%		
73) Bromofluorobenzene (SS3)	19.03	174	185560	9.970	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery =	79.76%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.06	42	10797	0.648	ng	# 1
3) Dichlorodifluoromethan...	4.21	85	9117	0.400	ng	98
4) Chloromethane	4.50	50	4113	0.217	ng	91
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	5.20	54	2032	0.144	ng	# 88
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.33	45	935992	77.046	ng	100
11) Acetonitrile	6.54	41	2620	N.D.		
12) Acrolein	6.80	56	1106	0.149	ng	86
13) Acetone	7.01	58	24182	2.529	ng	# 23
14) Trichlorofluoromethane	7.23	101	7778	0.366	ng	99
15) 2-Propanol (Isopropanol)	7.51	45	84246	2.229	ng	94
16) Acrylonitrile	7.85	53	852	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	8.45	59	1866	N.D.		
19) Methylene Chloride	8.44	84	587	N.D.		
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	8.87	151	521	N.D.		
22) Carbon Disulfide	8.71	76	275	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)	10.51	72	1581	0.237	ng	# 49
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	11.31	61	13060	2.737	ng	92
31) n-Hexane	11.29	57	7367	0.343	ng	98
32) Chloroform	11.33	83	1101	N.D.		
34) Tetrahydrofuran (THF)	11.81	72	325	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	13.30	61	19422	No Calib		
40) 1-Butanol	12.92	56	5332	No Calib	#	
41) Benzene	12.91	78	14627	0.352	ng	99
42) Carbon Tetrachloride	13.07	117	768	N.D.		
43) Cyclohexane	13.20	84	1470	0.092	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	13.99	83	115	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...	14.08	57	18657	0.340	ng	87
50) Methyl Methacrylate	0.00	100	0	N.D.	d	

Data File : I:\MS09\DATA\2022 04\15\04152217.D
 Acq On : 15 Apr 2022 13:52
 Sample : P2201602-008dil (200mL)
 Misc : S35-04132201

Vial: 16
 Operator: WA/CG
 Inst : MS09

Quant Time: Apr 17 18:41:47 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

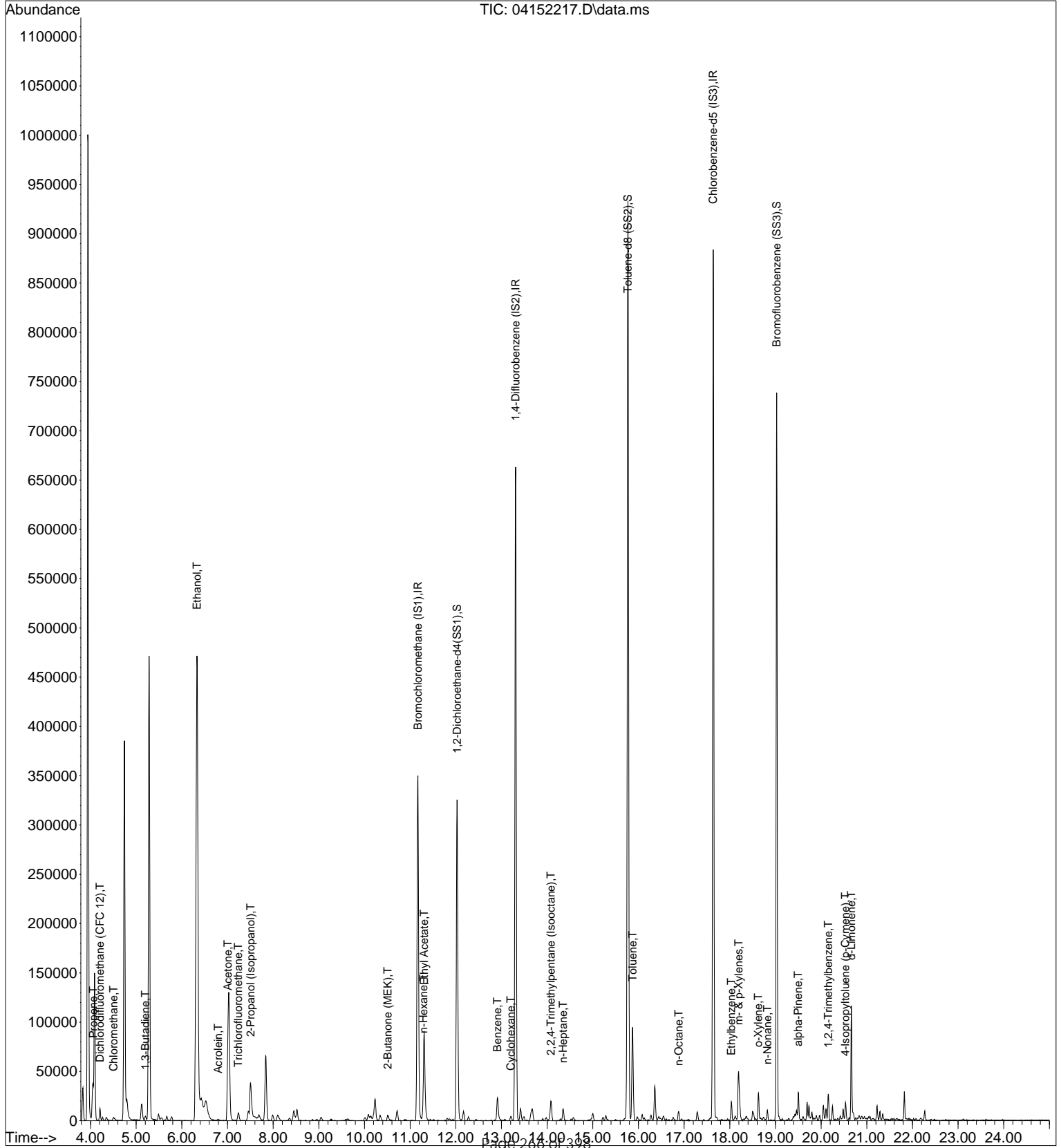
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.35	71	2441	0.225	ng	98
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.87	91	68129	1.402	ng	97
59) 2-Hexanone	16.13	43	2093	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.76	43	2912	N.D.		
63) n-Octane	16.88	57	1704	0.140	ng	95
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	18.03	91	14186	0.256	ng	99
67) m- & p-Xylenes	18.19	91	38781	0.873	ng	99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.52	104	2066	N.D.		
70) o-Xylene	18.62	91	14559	0.325	ng	99
71) n-Nonane	18.82	43	4632	0.135	ng	95
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	19.15	105	806	N.D.		
75) alpha-Pinene	19.50	93	9574	0.357	ng	94
76) n-Propylbenzene	19.60	91	3412	N.D.		
77) 3-Ethyltoluene	19.73	105	4155	No Calib		
78) 4-Ethyltoluene	19.73	105	4155	N.D.		
79) 1,3,5-Trimethylbenzene	19.79	105	3370	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.66	105	1562	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.16	105	11995	0.250	ng	90
83) n-Decane	20.53	58	121	No Calib	#	
84) Benzyl Chloride	20.37	91	557	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	20.40	105	182	N.D.		
88) 4-Isopropyltoluene (p-...	20.53	119	6624	0.124	ng	90
89) 1,2,3-Trimethylbenzene	20.40	105	182	No Calib	#	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	20.66	68	23485	1.317	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	0.00	180	0	N.D.		
95) Naphthalene	22.28	128	3615	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	18.64	55	1305	No Calib	#	
99) tert-Butylbenzene	20.16	119	1530	N.D.		
100) n-Butylbenzene	20.90	91	1244	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\2022 04\15\04152217.D
 Acq On : 15 Apr 2022 13:52
 Sample : P2201602-008dil (200mL)
 Misc : S35-04132201

Vial: 16
 Operator: WA/CG
 Inst : MS09

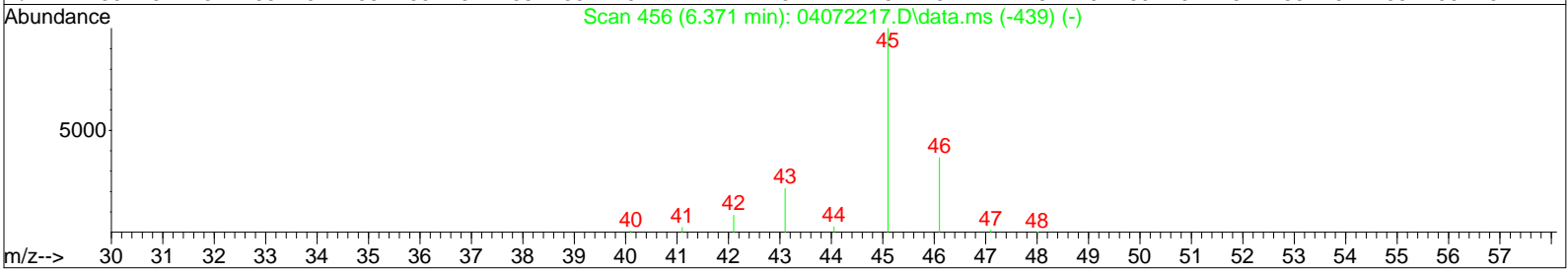
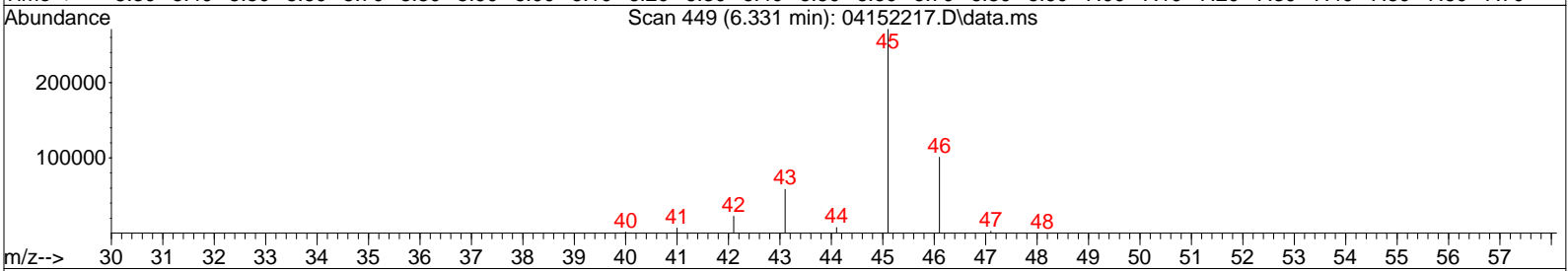
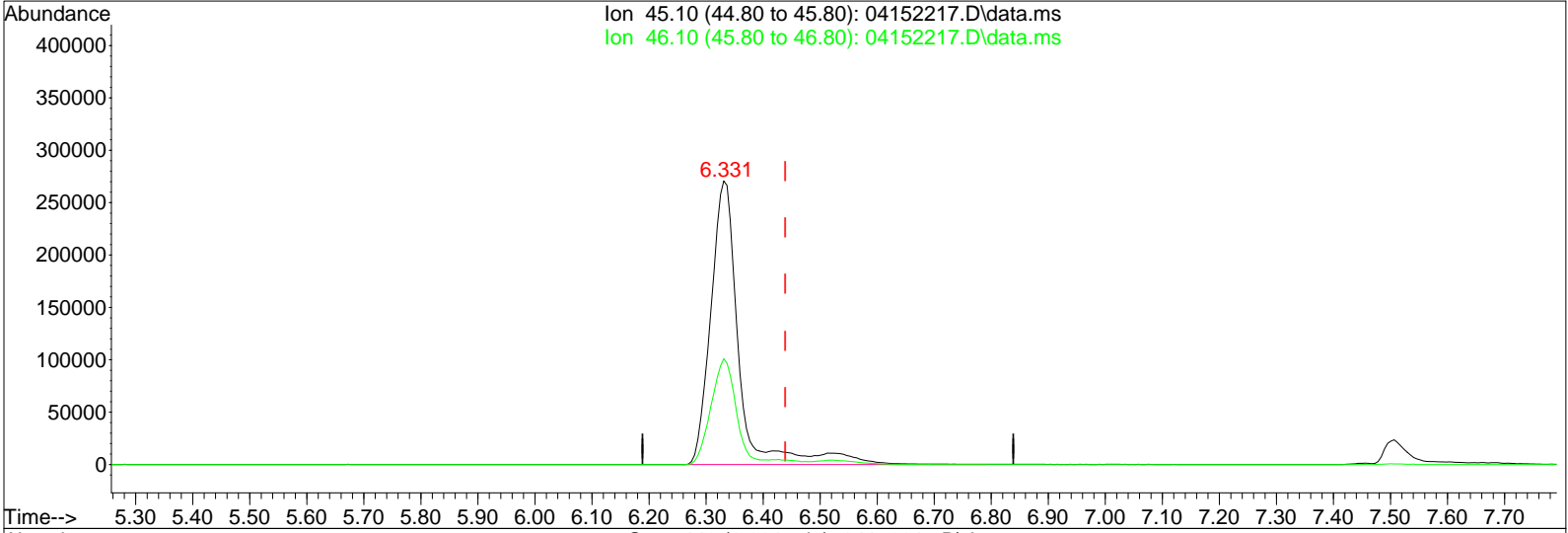
Quant Time: Apr 17 18:41:47 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2022 04\15\04152217.D
 Acq On : 15 Apr 2022 13:52
 Sample : P2201602-008dil (200mL)
 Misc : S35-04132201

Vial: 16
 Operator: WA/CG
 Inst : MS09

Quant Time: Apr 15 14:22:17 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



TIC: 04152217.D\data.ms

(10) Ethanol (T)

6.331min (-0.108) 77.05ng

response 935992

Ion	Exp%	Act%
45.10	100	100
46.10	36.70	36.84
0.00	0.00	0.00
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: NYS Department of Environmental Conservation

Client Sample ID: Armonk-IA-DUP-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao/Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC01608

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14 - 4/15/22

Volume(s) Analyzed: 1.00 Liter(s)

0.20 Liter(s)

Initial Pressure (psig): 0.43 Final Pressure (psig): 4.07

Canister Dilution Factor: 1.24

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	5.5	0.64	3.2	0.37	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	0.66	0.49	0.13	
74-87-3	Chloromethane	0.56	0.26	0.27	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.67	ND	0.096	
75-01-4	Vinyl Chloride	ND	0.14	ND	0.053	
106-99-0	1,3-Butadiene	0.98	0.26	0.44	0.12	
74-83-9	Bromomethane	ND	0.26	ND	0.067	
75-00-3	Chloroethane	ND	0.26	ND	0.099	
64-17-5	Ethanol	480	31	250	16	D
75-05-8	Acetonitrile	ND	1.2	ND	0.74	
107-02-8	Acrolein	ND	1.2	ND	0.54	
67-64-1	Acetone	17	6.4	7.3	2.7	
75-69-4	Trichlorofluoromethane (CFC 11)	2.3	0.64	0.41	0.11	
67-63-0	2-Propanol (Isopropyl Alcohol)	12	1.2	4.7	0.50	
107-13-1	Acrylonitrile	ND	1.2	ND	0.57	
75-35-4	1,1-Dichloroethene	ND	0.14	ND	0.034	
75-09-2	Methylene Chloride	ND	0.64	ND	0.19	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.66	ND	0.21	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.67	ND	0.087	
75-15-0	Carbon Disulfide	ND	1.4	ND	0.44	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	ND	0.034	
75-34-3	1,1-Dichloroethane	ND	0.14	ND	0.034	
1634-04-4	Methyl tert-Butyl Ether	ND	0.66	ND	0.18	
108-05-4	Vinyl Acetate	ND	6.2	ND	1.8	
78-93-3	2-Butanone (MEK)	1.5	1.2	0.51	0.42	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: NYS Department of Environmental Conservation

Client Sample ID: Armonk-IA-DUP-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao/Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC01608

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14 - 4/15/22

Volume(s) Analyzed: 1.00 Liter(s)

0.20 Liter(s)

Initial Pressure (psig): 0.43 Final Pressure (psig): 4.07

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.14	ND	0.034	
141-78-6	Ethyl Acetate	16	2.6	4.5	0.72	
110-54-3	n-Hexane	2.0	0.66	0.58	0.19	
67-66-3	Chloroform	0.37	0.14	0.075	0.028	
109-99-9	Tetrahydrofuran (THF)	ND	1.2	ND	0.42	
107-06-2	1,2-Dichloroethane	ND	0.14	ND	0.034	
71-55-6	1,1,1-Trichloroethane	ND	0.14	ND	0.025	
71-43-2	Benzene	2.0	0.14	0.63	0.043	
56-23-5	Carbon Tetrachloride	0.40	0.14	0.064	0.022	
110-82-7	Cyclohexane	ND	1.4	ND	0.40	
78-87-5	1,2-Dichloropropane	ND	0.14	ND	0.030	
75-27-4	Bromodichloromethane	0.15	0.14	0.023	0.020	
79-01-6	Trichloroethene	ND	0.14	ND	0.025	
123-91-1	1,4-Dioxane	ND	0.64	ND	0.18	
80-62-6	Methyl Methacrylate	ND	1.4	ND	0.33	
142-82-5	n-Heptane	1.3	0.66	0.32	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.66	ND	0.14	
108-10-1	4-Methyl-2-pentanone	ND	1.4	ND	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	0.63	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.14	ND	0.025	
108-88-3	Toluene	7.3	0.64	1.9	0.17	
591-78-6	2-Hexanone	ND	1.4	ND	0.33	
124-48-1	Dibromochloromethane	ND	0.14	ND	0.016	
106-93-4	1,2-Dibromoethane	ND	0.14	ND	0.018	
123-86-4	n-Butyl Acetate	ND	1.4	ND	0.29	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3 of 3

Client: NYS Department of Environmental Conservation

Client Sample ID: Armonk-IA-DUP-040722

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P2201602-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao/Wida Ang

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC01608

Date Collected: 4/7/22

Date Received: 4/8/22

Date Analyzed: 4/14 - 4/15/22

Volume(s) Analyzed: 1.00 Liter(s)

0.20 Liter(s)

Initial Pressure (psig): 0.43 Final Pressure (psig): 4.07

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	0.92	0.66	0.20	0.14	
127-18-4	Tetrachloroethene	ND	0.14	ND	0.020	
108-90-7	Chlorobenzene	ND	0.64	ND	0.14	
100-41-4	Ethylbenzene	1.6	0.64	0.36	0.15	
179601-23-1	m,p-Xylenes	5.3	1.4	1.2	0.31	
75-25-2	Bromoform	ND	0.64	ND	0.062	
100-42-5	Styrene	ND	0.64	ND	0.15	
95-47-6	o-Xylene	2.0	0.64	0.45	0.15	
111-84-2	n-Nonane	0.85	0.64	0.16	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	ND	0.020	
98-82-8	Cumene	ND	0.64	ND	0.13	
80-56-8	alpha-Pinene	2.6	0.67	0.47	0.12	
103-65-1	n-Propylbenzene	ND	0.66	ND	0.13	
622-96-8	4-Ethyltoluene	ND	0.66	ND	0.13	
108-67-8	1,3,5-Trimethylbenzene	ND	0.64	ND	0.13	
95-63-6	1,2,4-Trimethylbenzene	1.9	0.64	0.38	0.13	
100-44-7	Benzyl Chloride	ND	1.4	ND	0.26	
541-73-1	1,3-Dichlorobenzene	ND	0.64	ND	0.11	
106-46-7	1,4-Dichlorobenzene	ND	0.64	ND	0.11	
95-50-1	1,2-Dichlorobenzene	ND	0.66	ND	0.11	
5989-27-5	d-Limonene	10	0.64	1.8	0.12	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.2	ND	0.13	
120-82-1	1,2,4-Trichlorobenzene	ND	1.2	ND	0.17	
91-20-3	Naphthalene	ND	0.64	ND	0.12	
87-68-3	Hexachlorobutadiene	ND	0.64	ND	0.060	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Data File : I:\MS09\DATA\2022 04\14\04142227.D
 Acq On : 14 Apr 2022 21:06
 Sample : P2201602-009 (1000mL)
 Misc : S35-04132201

Vial: 11
 Operator: SC
 Inst : MS09

Quant Time: Apr 15 01:45:02 2022

LH 4/15/22

Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	11.17	130	141971	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	13.31	114	627259	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.64	54	166284	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.03	65	280865	12.933	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	103.44%	
57) Toluene-d8 (SS2)	15.77	98	744122	12.281	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	98.24%	
73) Bromofluorobenzene (SS3)	19.03	174	229956	10.776	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	86.24%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.05	42	86818	4.431	ng	96
3) Dichlorodifluoromethan...	4.21	85	52644	1.963	ng	100
4) Chloromethane	4.50	50	10002	0.449	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	4.76	135	957	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.19	54	13102	0.787	ng	97
8) Bromomethane	5.63	94	243	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.39	45	5713673	399.790	ng	99
11) Acetonitrile	6.68	41	247	N.D.		
12) Acrolein	6.78	56	7533	0.860	ng	94
13) Acetone	6.98	58	156335	13.896	ng	# 33
14) Trichlorofluoromethane	7.24	101	46084	1.844	ng	99
15) 2-Propanol (Isopropanol)	7.52	45	417911	9.398	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	8.43	84	3775	0.322	ng	98
20) 3-Chloro-1-propene (Al...	8.60	41	1093	N.D.		
21) Trichlorotrifluoroethane	8.86	151	4062	0.380	ng	96
22) Carbon Disulfide	8.70	76	2242	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	10.19	86	7343	3.629	ng	# 52
27) 2-Butanone (MEK)	10.49	72	9616	1.224	ng	# 88
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	11.30	61	74003	13.184	ng	96
31) n-Hexane	11.29	57	41582	1.644	ng	98
32) Chloroform	11.34	83	6477	0.295	ng	99
34) Tetrahydrofuran (THF)	11.78	72	2824	0.374	ng	# 92
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	12.15	62	1078	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	13.31	61	22613	No Calib		
40) 1-Butanol	12.90	56	18310	No Calib	#	
41) Benzene	12.91	78	78882	1.625	ng	99
42) Carbon Tetrachloride	13.07	117	6008	0.322	ng	98
43) Cyclohexane	13.21	84	8021	0.431	ng	96
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	13.64	63	187	N.D.		
46) Bromodichloromethane	13.97	83	2156	0.122	ng	# 45
47) Trichloroethene	14.01	130	251	N.D.		
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.	d	

Data File : I:\MS09\DATA\2022 04\14\04142227.D
 Acq On : 14 Apr 2022 21:06
 Sample : P2201602-009 (1000mL)
 Misc : S35-04132201

Vial: 11
 Operator: SC
 Inst : MS09

Quant Time: Apr 15 01:45:02 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

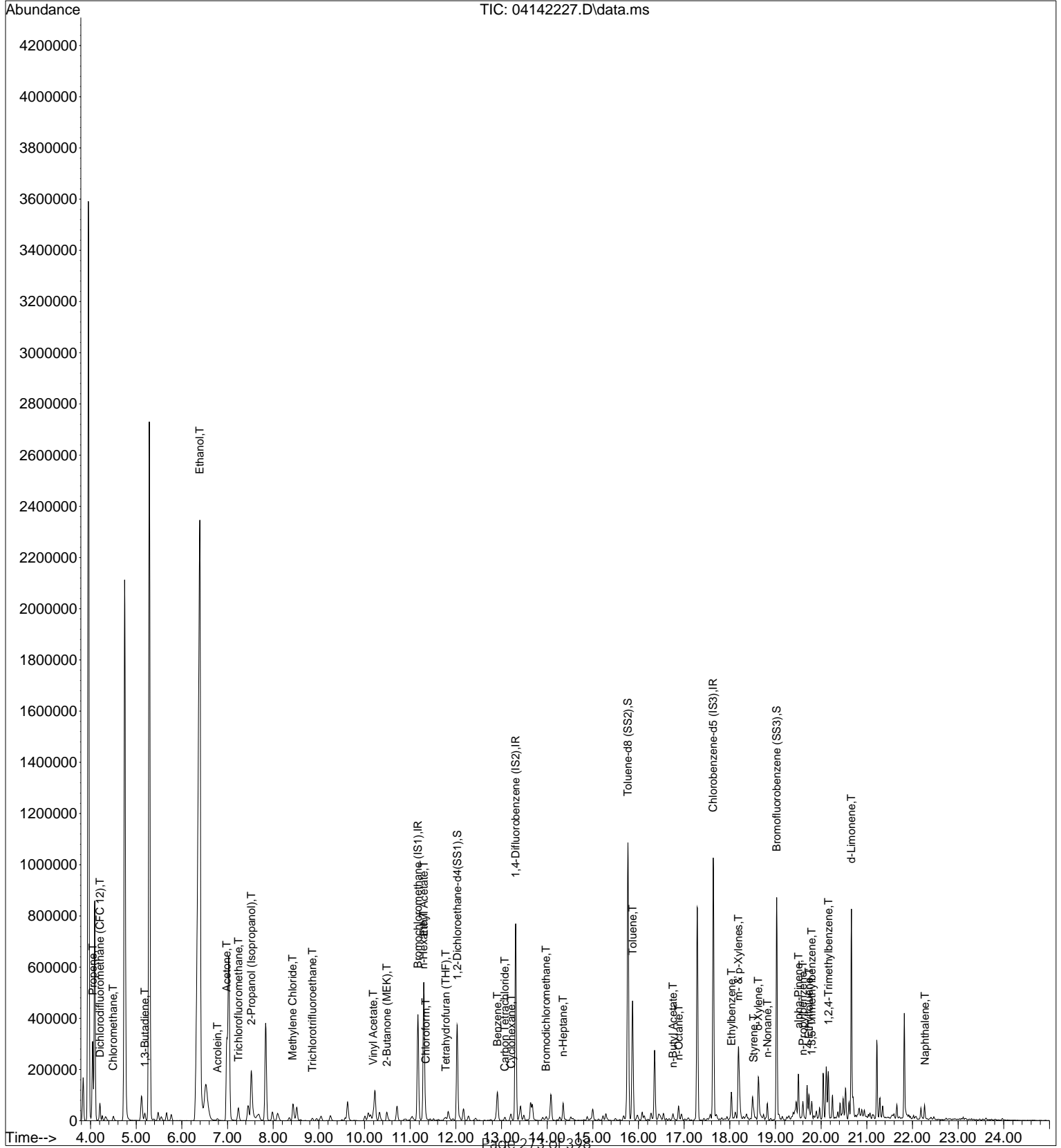
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.35	71	13307	1.050	ng	99
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	14.93	58	1079	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.87	91	329217	5.909	ng	99
59) 2-Hexanone	0.00	43	0	N.D.	d	
60) Dibromochloromethane	16.29	129	310	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.76	43	20215	0.432	ng	88
63) n-Octane	16.88	57	10382	0.744	ng	97
64) Tetrachloroethene	17.02	166	1173	N.D.		
65) Chlorobenzene	17.71	112	1715	N.D.		
66) Ethylbenzene	18.03	91	80471	1.269	ng	98
67) m- & p-Xylenes	18.19	91	215802	4.235	ng	99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.52	104	14266	0.392	ng	100
70) o-Xylene	18.62	91	81667	1.589	ng	100
71) n-Nonane	18.82	43	26989	0.684	ng	94
72) 1,1,2,2-Tetrachloroethane	18.64	83	603	N.D.		
74) Cumene	19.15	105	5291	N.D.		
75) alpha-Pinene	19.50	93	64538	2.100	ng	100
76) n-Propylbenzene	19.60	91	21238	0.273	ng	# 66
77) 3-Ethyltoluene	19.73	105	27147	No Calib		
78) 4-Ethyltoluene	19.73	105	27147	0.432	ng	97
79) 1,3,5-Trimethylbenzene	19.79	105	21340	0.400	ng	99
80) alpha-Methylstyrene	19.69	118	240	No Calib	#	
81) 2-Ethyltoluene	20.66	105	10768	No Calib		
82) 1,2,4-Trimethylbenzene	20.16	105	82249	1.496	ng	91
83) n-Decane	20.48	58	611	No Calib	#	
84) Benzyl Chloride	0.00	91	0	N.D.	d	
85) 1,3-Dichlorobenzene	20.36	146	439	N.D.		
86) 1,4-Dichlorobenzene	20.36	146	439	N.D.		
87) sec-Butylbenzene	20.40	105	1904	N.D.		
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.	d	
89) 1,2,3-Trimethylbenzene	20.40	105	1904	No Calib	#	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	20.66	68	168083	8.218	ng	91
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	21.34	58	791	No Calib	#	
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	22.28	128	9505	0.137	ng	94
96) n-Dodecane	22.26	58	564	No Calib	#	
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	18.63	55	5864	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:\MS09\DATA\2022 04\14\04142227.D
 Acq On : 14 Apr 2022 21:06
 Sample : P2201602-009 (1000mL)
 Misc : S35-04132201

Vial: 11
 Operator: SC
 Inst : MS09

Quant Time: Apr 15 01:45:02 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2022 04\14\04142227.D
 Acq On : 14 Apr 2022 21:06
 Sample : P2201602-009 (1000mL)
 Misc : S35-04132201

Vial: 11
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 Inst : MS09

Quant Time: Apr 15 01:45:02 2022

LH 4/15/22

Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	11.17	130	141971	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	13.31	114	627259	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.64	54	166284	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.03	65	280865	12.933	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	103.44%	
57) Toluene-d8 (SS2)	15.77	98	744122	12.281	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	98.24%	
73) Bromofluorobenzene (SS3)	19.03	174	229956	10.776	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	86.24%	

Target Compounds

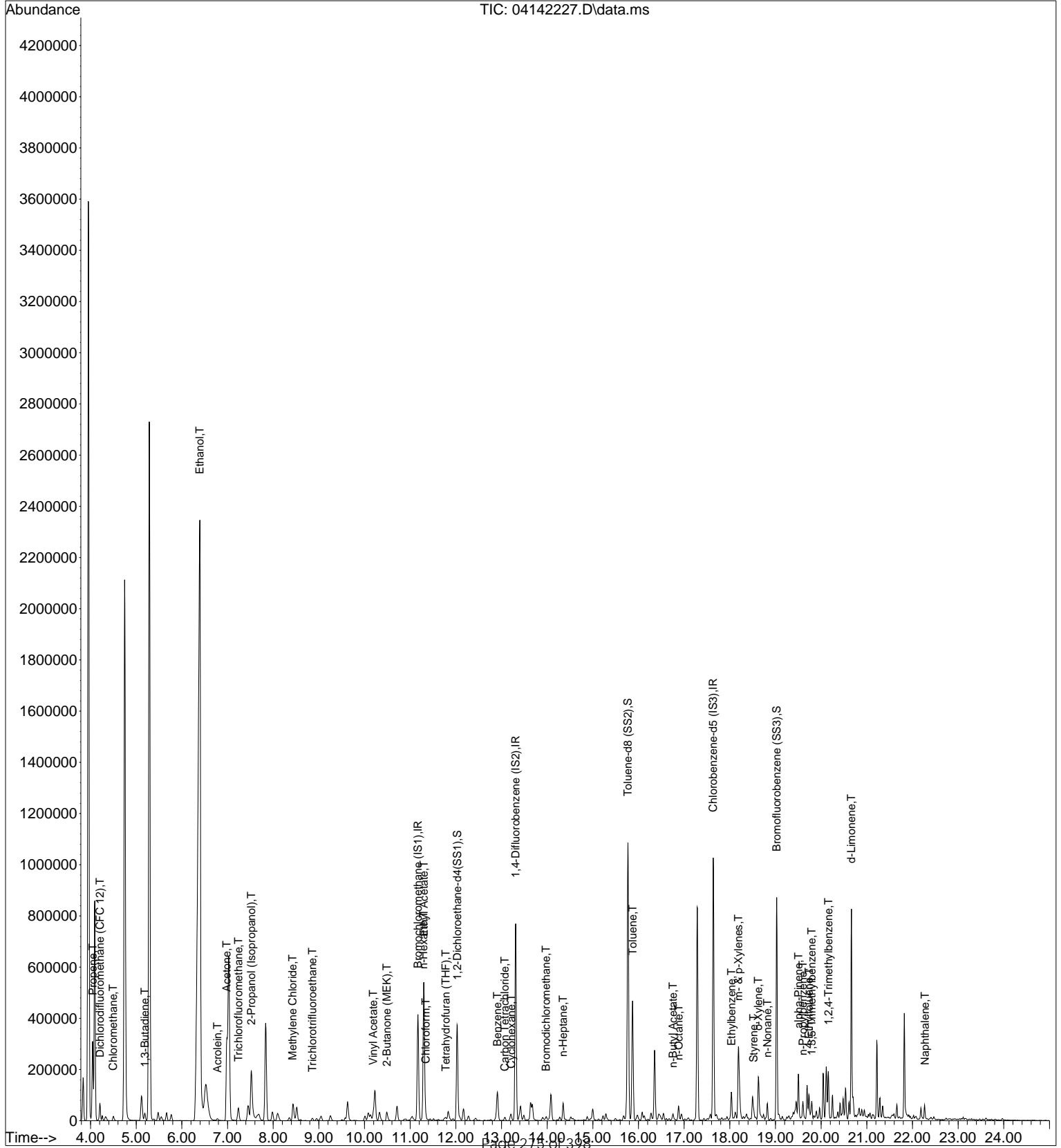
						Qvalue
2) Propene	4.05	42	86818	4.431	ng	96
3) Dichlorodifluoromethan...	4.21	85	52644	1.963	ng	100
4) Chloromethane	4.50	50	10002	0.449	ng	99
7) 1,3-Butadiene	5.19	54	13102	0.787	ng	97
10) Ethanol	6.39	45	5713673	399.790	ng	99
12) Acrolein	6.78	56	7533	0.860	ng	94
13) Acetone	6.98	58	156335	13.896	ng	# 33
14) Trichlorofluoromethane	7.24	101	46084	1.844	ng	99
15) 2-Propanol (Isopropanol)	7.52	45	417911	9.398	ng	97
19) Methylene Chloride	8.43	84	3775	0.322	ng	98
21) Trichlorotrifluoroethane	8.86	151	4062	0.380	ng	96
26) Vinyl Acetate	10.19	86	7343	3.629	ng	# 52
27) 2-Butanone (MEK)	10.49	72	9616	1.224	ng	# 88
30) Ethyl Acetate	11.30	61	74003	13.184	ng	96
31) n-Hexane	11.29	57	41582	1.644	ng	98
32) Chloroform	11.34	83	6477	0.295	ng	99
34) Tetrahydrofuran (THF)	11.78	72	2824	0.374	ng	# 92
41) Benzene	12.91	78	78882	1.625	ng	99
42) Carbon Tetrachloride	13.07	117	6008	0.322	ng	98
43) Cyclohexane	13.21	84	8021	0.431	ng	96
46) Bromodichloromethane	13.97	83	2156	0.122	ng	# 45
51) n-Heptane	14.35	71	13307	1.050	ng	99
58) Toluene	15.87	91	329217	5.909	ng	99
62) n-Butyl Acetate	16.76	43	20215	0.432	ng	88
63) n-Octane	16.88	57	10382	0.744	ng	97
66) Ethylbenzene	18.03	91	80471	1.269	ng	98
67) m- & p-Xylenes	18.19	91	215802	4.235	ng	99
69) Styrene	18.52	104	14266	0.392	ng	100
70) o-Xylene	18.62	91	81667	1.589	ng	100
71) n-Nonane	18.82	43	26989	0.684	ng	94
75) alpha-Pinene	19.50	93	64538	2.100	ng	100
76) n-Propylbenzene	19.60	91	21238	0.273	ng	# 66
78) 4-Ethyltoluene	19.73	105	27147	0.432	ng	97
79) 1,3,5-Trimethylbenzene	19.79	105	21340	0.400	ng	99
82) 1,2,4-Trimethylbenzene	20.16	105	82249	1.496	ng	91
91) d-Limonene	20.66	68	168083	8.218	ng	91
95) Naphthalene	22.28	128	9505	0.137	ng	94

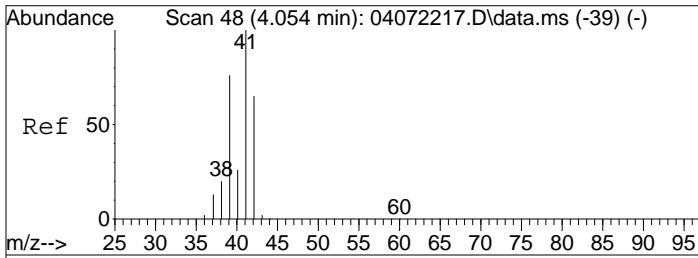
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS09\DATA\2022 04\14\04142227.D
Acq On : 14 Apr 2022 21:06
Sample : P2201602-009 (1000mL)
Misc : S35-04132201

Vial: 11
Operator: SC
Inst : MS09

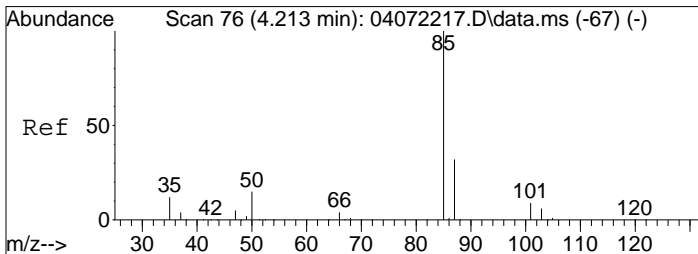
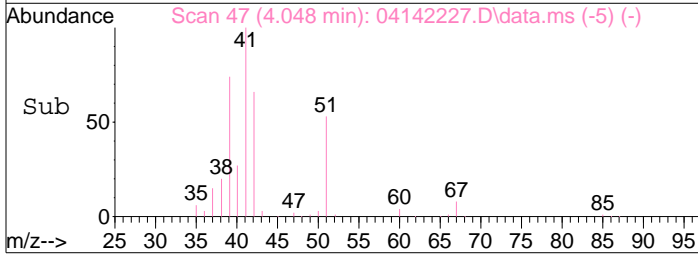
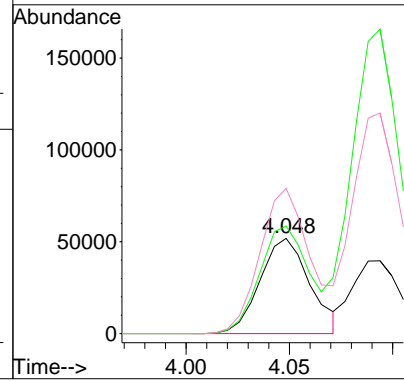
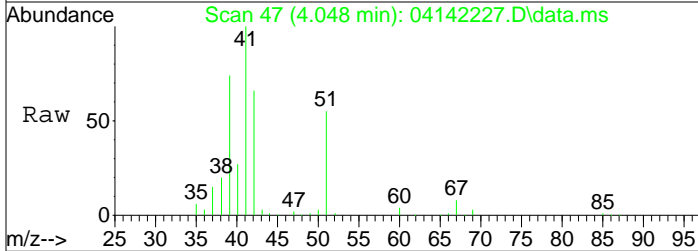
Quant Time: Apr 15 01:45:02 2022
Quant Method : I:\MS09\Methods\R9040722.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Apr 07 16:31:14 2022
Response via : Initial Calibration
DataAcq Meth:TO15.M





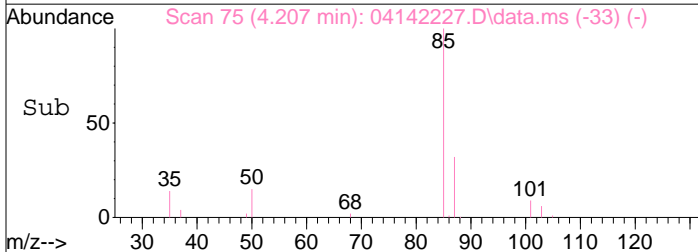
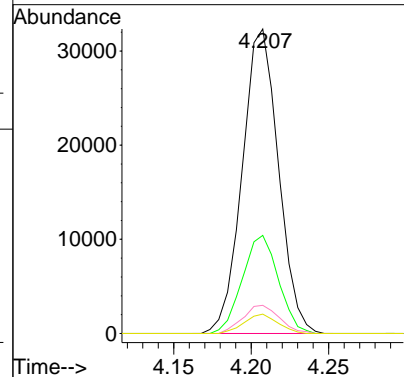
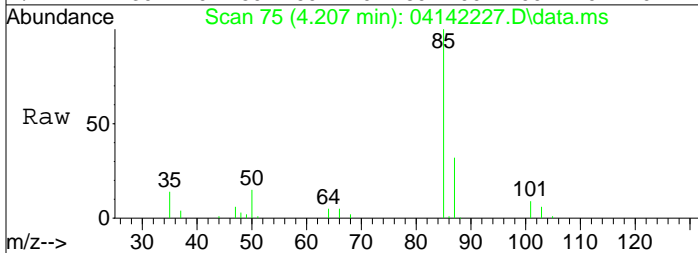
#2
 Propene
 Concen: 4.43 ng
 RT: 4.05 min Scan# 47
 Delta R.T. -0.011 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

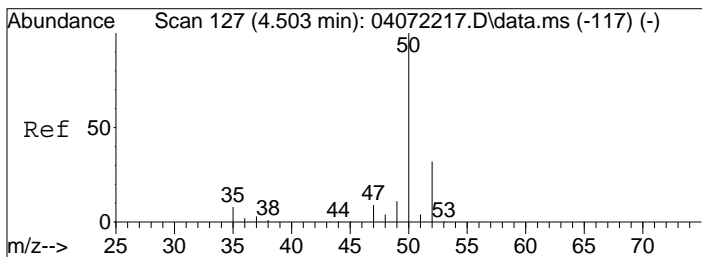
Tgt Ion:	Resp:	Lower	Upper
42	100		
39	111.7	96.7	136.7
41	156.2	132.4	172.4



#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.96 ng
 RT: 4.21 min Scan# 75
 Delta R.T. -0.011 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

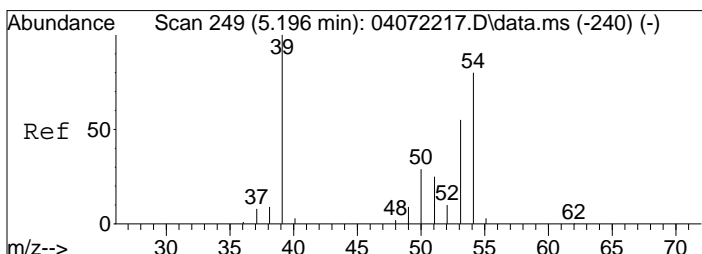
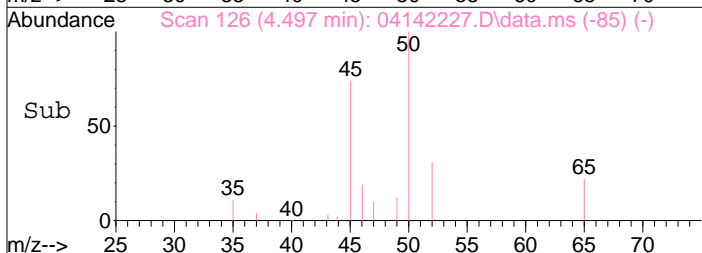
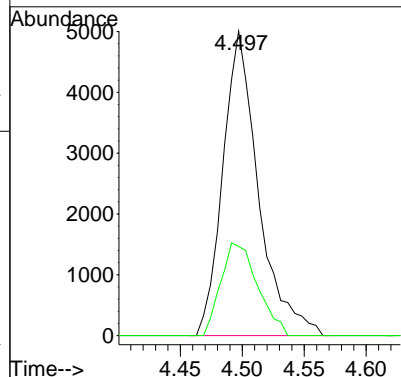
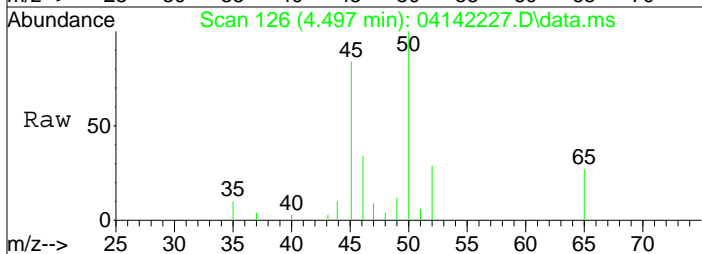
Tgt Ion:	Resp:	Lower	Upper
85	100		
87	32.1	12.2	52.2
101	9.4	0.0	29.3
103	5.9	0.0	26.0





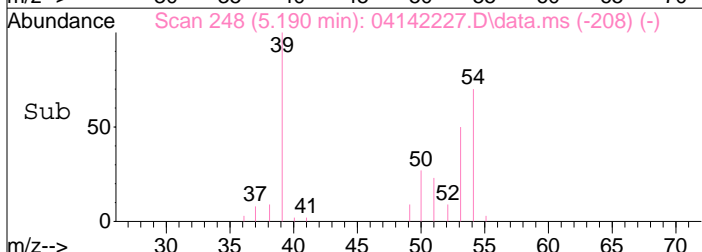
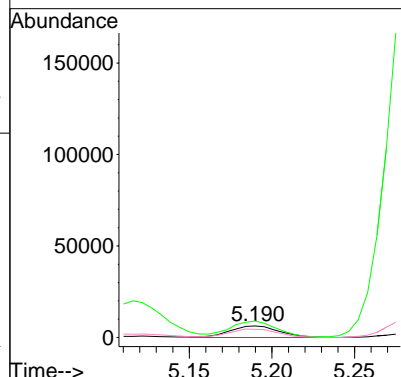
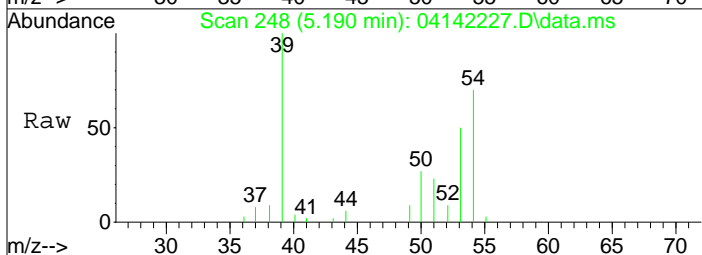
#4
 Chloromethane
 Concen: 0.45 ng
 RT: 4.50 min Scan# 126
 Delta R.T. -0.017 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

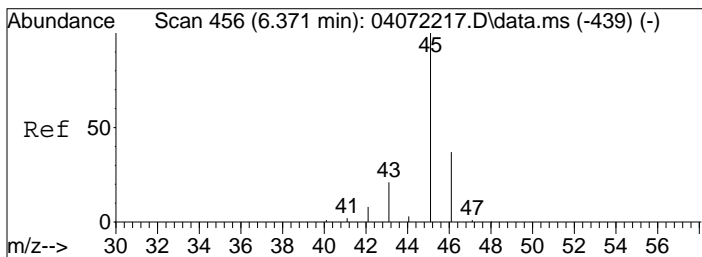
Tgt Ion	Resp	Lower	Upper
50	10002		
50	100		
52	31.4	11.8	51.8



#7
 1,3-Butadiene
 Concen: 0.79 ng
 RT: 5.19 min Scan# 248
 Delta R.T. -0.023 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

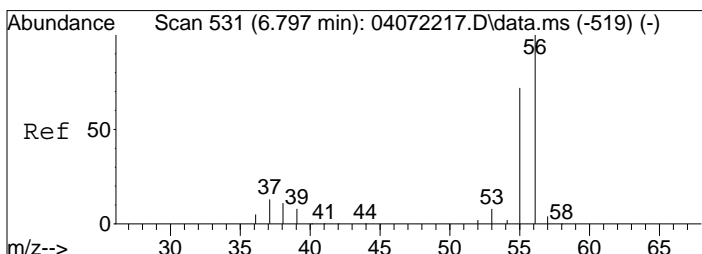
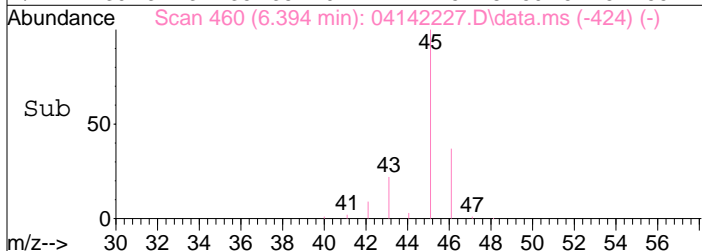
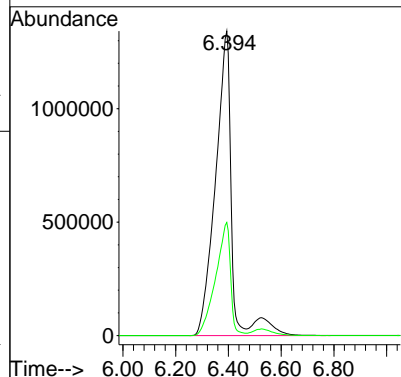
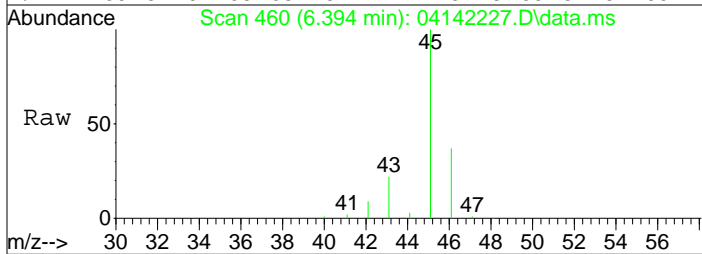
Tgt Ion	Resp	Lower	Upper
54	13102		
54	100		
39	136.1	111.2	151.2
53	71.9	50.6	90.6





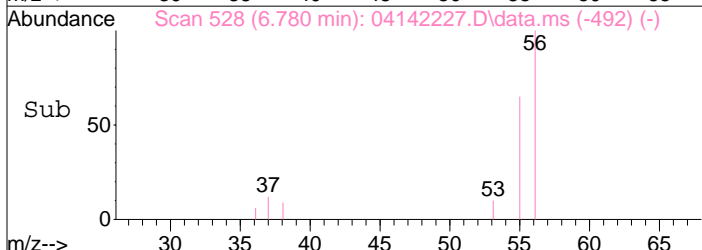
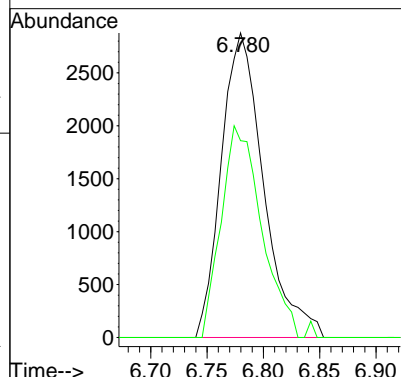
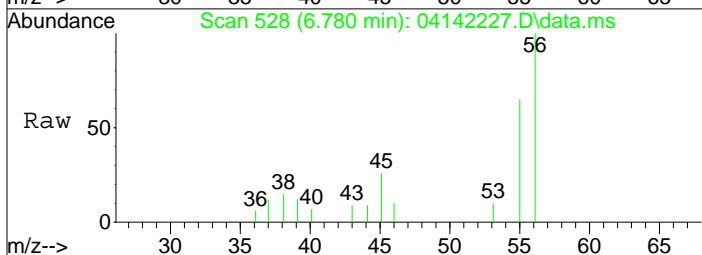
#10
 Ethanol
 Concen: 399.79 ng
 RT: 6.39 min Scan# 460
 Delta R.T. -0.045 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

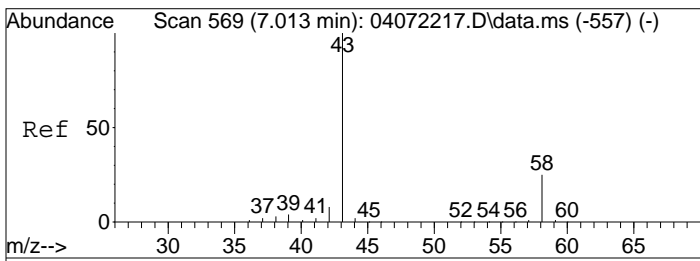
Tgt Ion: 45 Resp: 5713673
 Ion Ratio Lower Upper
 45 100
 46 37.0 16.7 56.7



#12
 Acrolein
 Concen: 0.86 ng
 RT: 6.78 min Scan# 528
 Delta R.T. -0.045 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

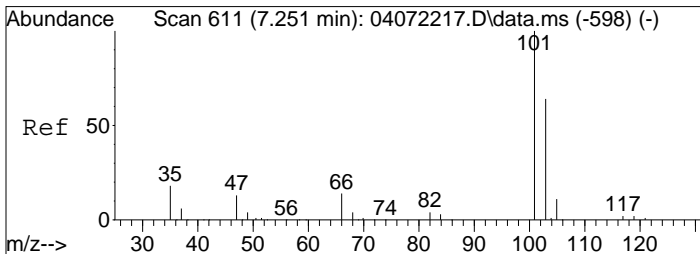
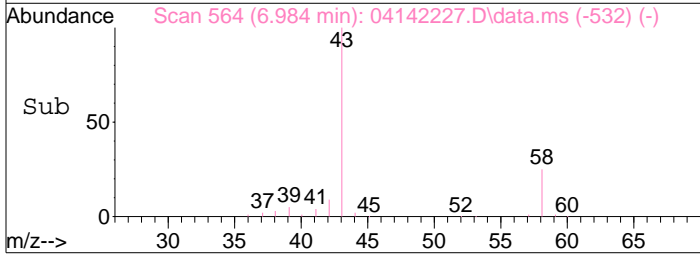
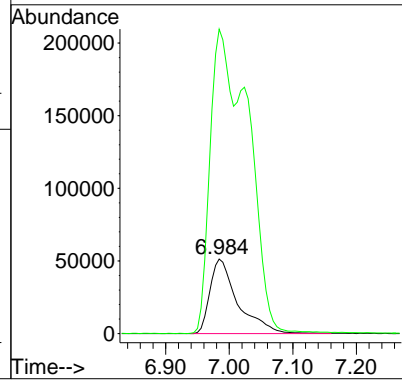
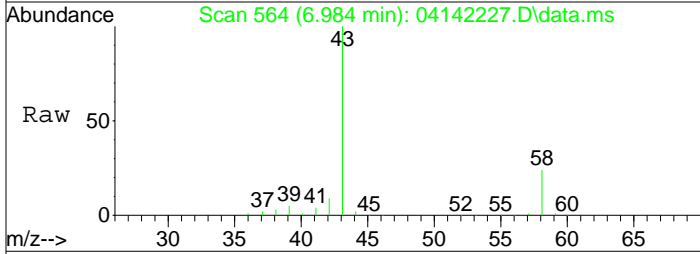
Tgt Ion: 56 Resp: 7533
 Ion Ratio Lower Upper
 56 100
 55 66.2 51.3 91.3





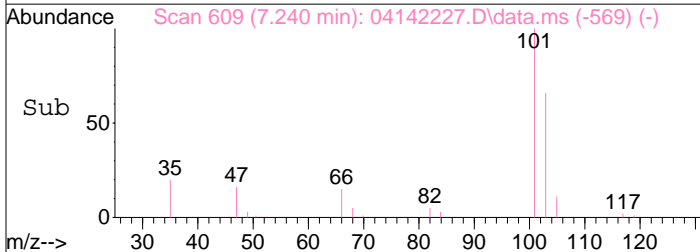
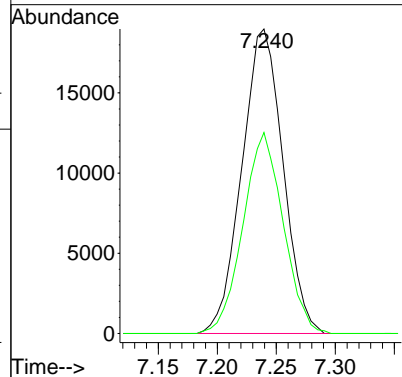
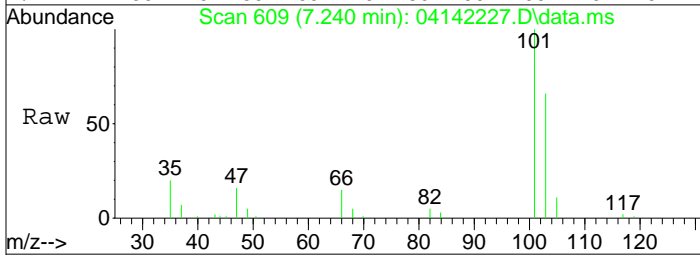
#13
 Acetone
 Concen: 13.90 ng
 RT: 6.98 min Scan# 564
 Delta R.T. -0.068 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

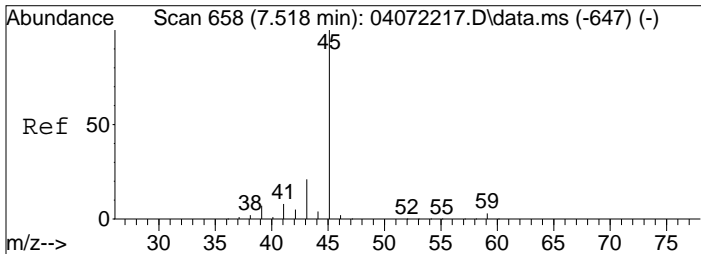
Tgt Ion: 58 Resp: 156335
 Ion Ratio Lower Upper
 58 100
 43 559.7 370.7 430.7#



#14
 Trichlorofluoromethane
 Concen: 1.84 ng
 RT: 7.24 min Scan# 609
 Delta R.T. -0.023 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

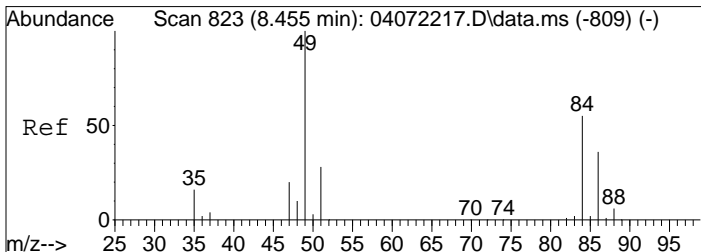
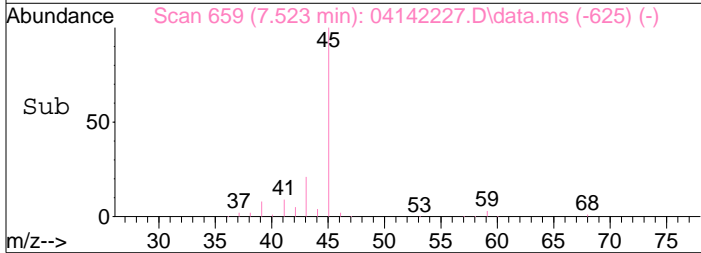
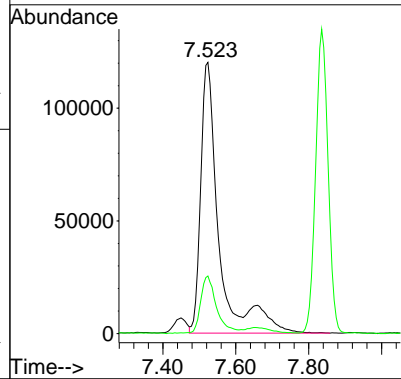
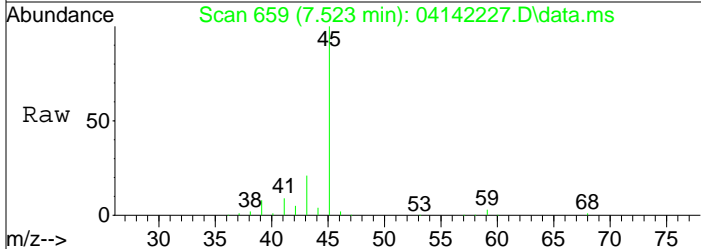
Tgt Ion: 101 Resp: 46084
 Ion Ratio Lower Upper
 101 100
 103 64.3 43.8 83.8





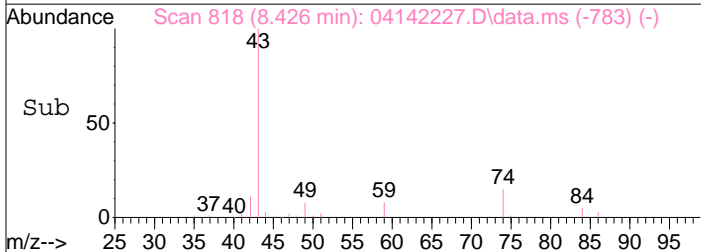
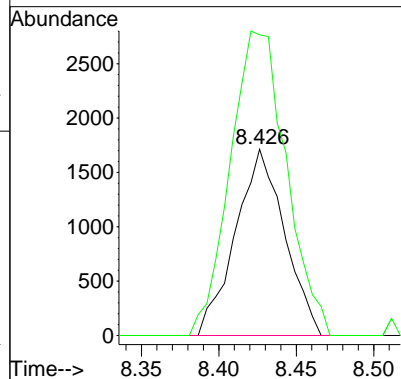
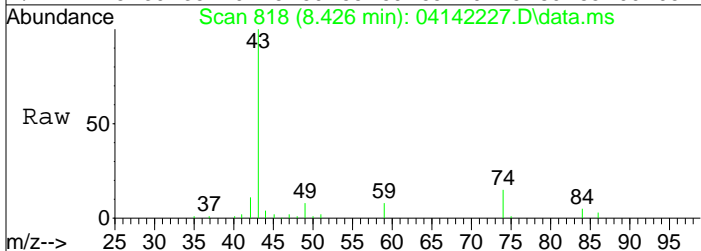
#15
 2-Propanol (Isopropanol)
 Concen: 9.40 ng
 RT: 7.52 min Scan# 659
 Delta R.T. -0.057 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

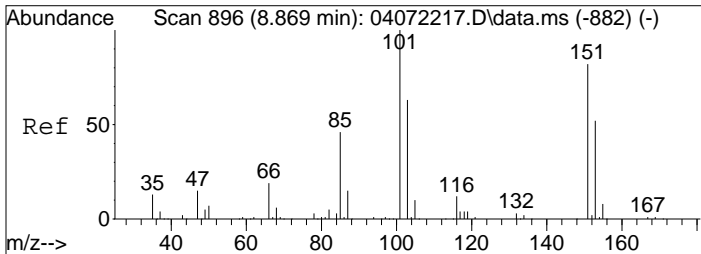
Tgt Ion: 45 Resp: 417911
 Ion Ratio Lower Upper
 45 100
 43 22.1 0.6 40.6



#19
 Methylene Chloride
 Concen: 0.32 ng
 RT: 8.43 min Scan# 818
 Delta R.T. -0.051 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

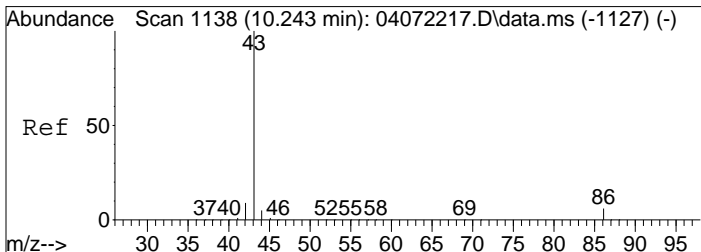
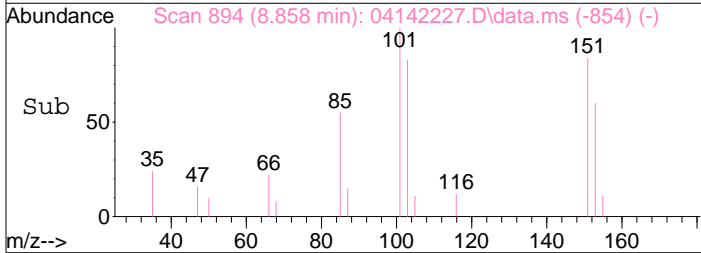
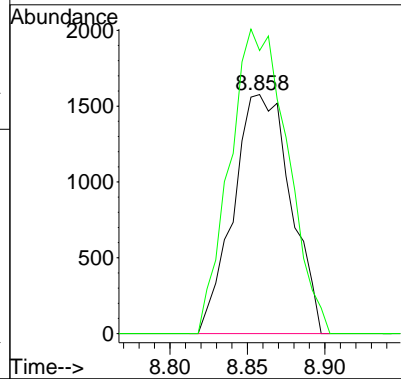
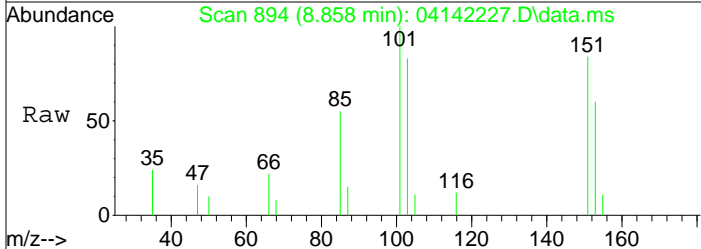
Tgt Ion: 84 Resp: 3775
 Ion Ratio Lower Upper
 84 100
 49 187.4 159.1 209.1





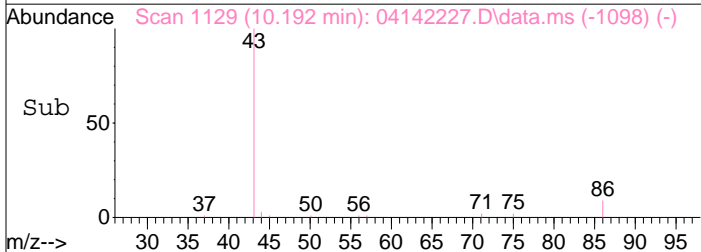
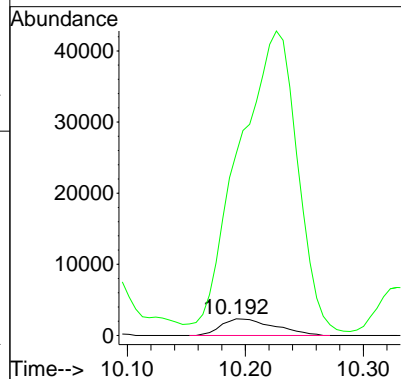
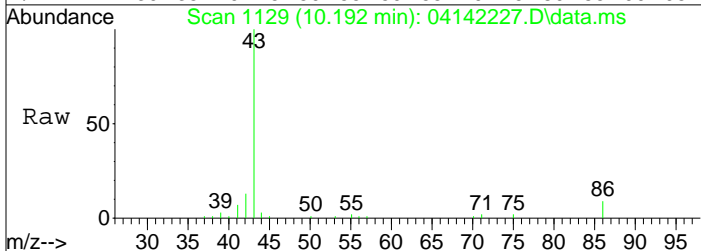
#21
 Trichlorotrifluoroethane
 Concen: 0.38 ng
 RT: 8.86 min Scan# 894
 Delta R.T. -0.023 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

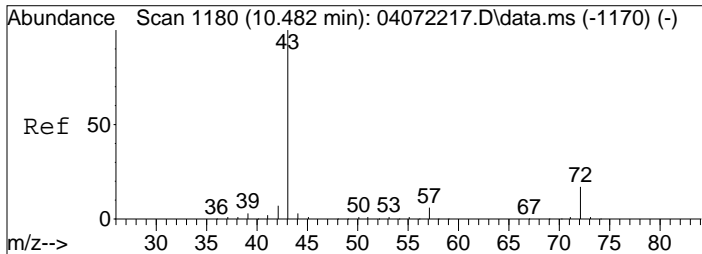
Tgt Ion: 151 Resp: 4062
 Ion Ratio Lower Upper
 151 100
 101 128.6 103.7 143.7



#26
 Vinyl Acetate
 Concen: 3.63 ng
 RT: 10.19 min Scan# 1129
 Delta R.T. -0.074 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

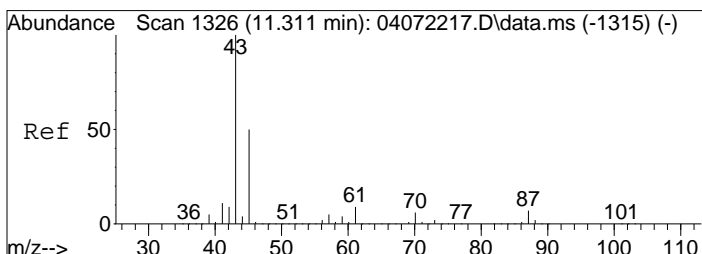
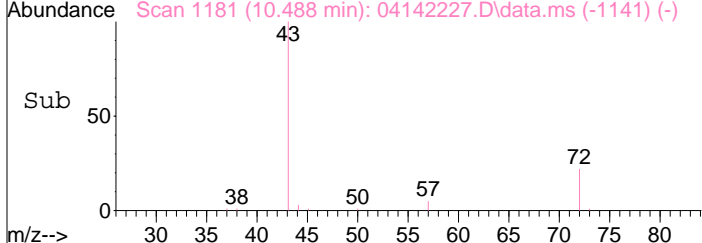
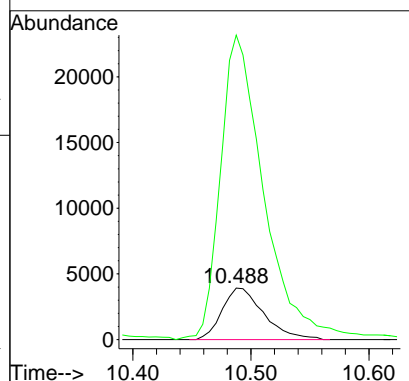
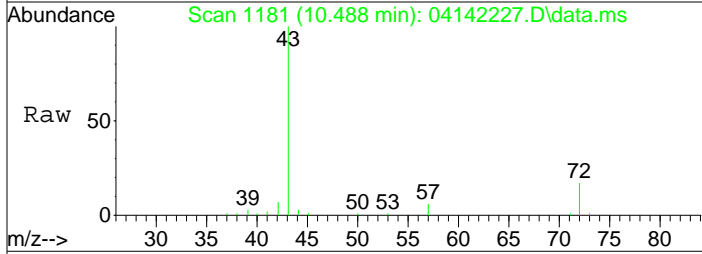
Tgt Ion: 86 Resp: 7343
 Ion Ratio Lower Upper
 86 100
 43 2025.9 1690.9 1730.9#





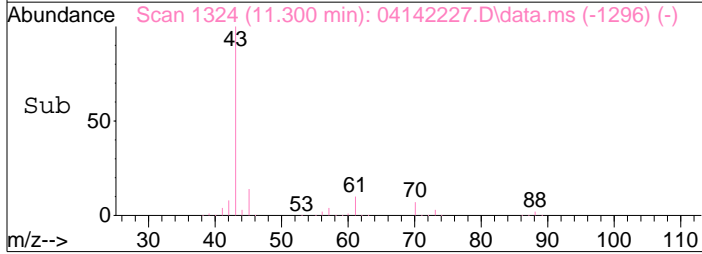
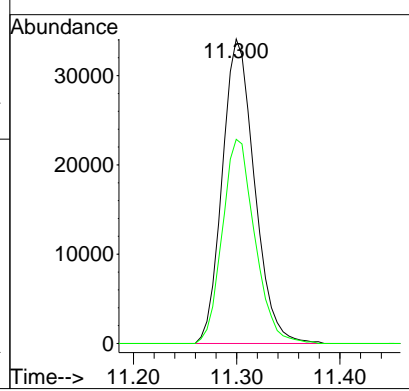
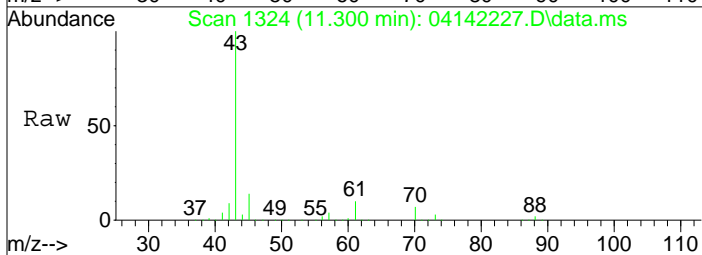
#27
 2-Butanone (MEK)
 Concen: 1.22 ng
 RT: 10.49 min Scan# 1181
 Delta R.T. -0.023 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

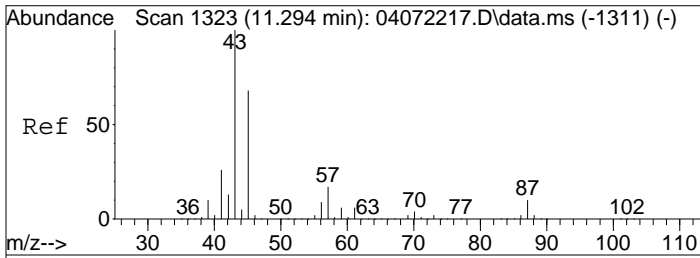
Tgt Ion:	Resp:	Lower	Upper
72	9616		
72	100		
43	622.4	565.1	605.1#



#30
 Ethyl Acetate
 Concen: 13.18 ng
 RT: 11.30 min Scan# 1324
 Delta R.T. -0.040 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

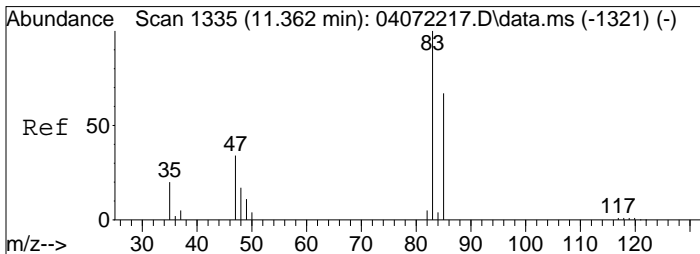
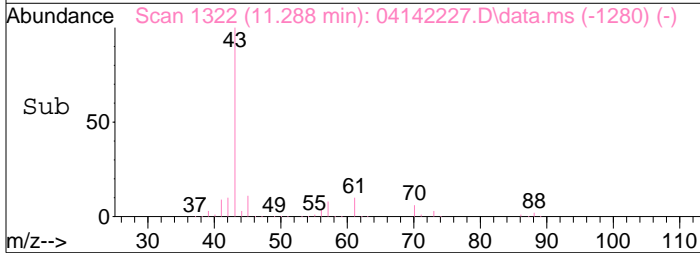
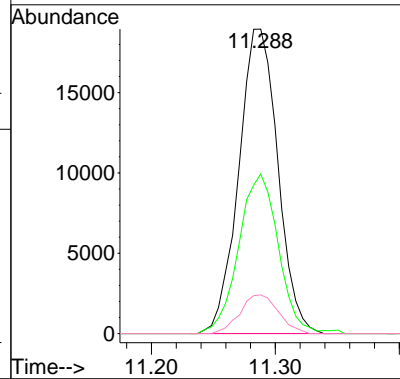
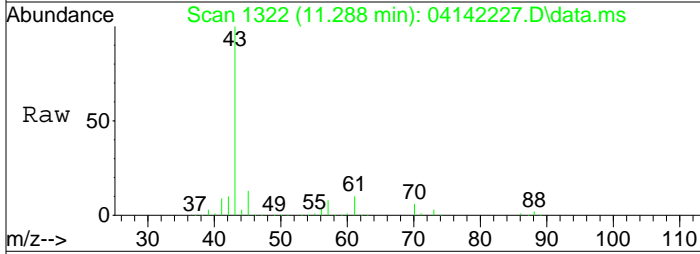
Tgt Ion:	Resp:	Lower	Upper
61	74003		
61	100		
70	67.5	50.8	90.8





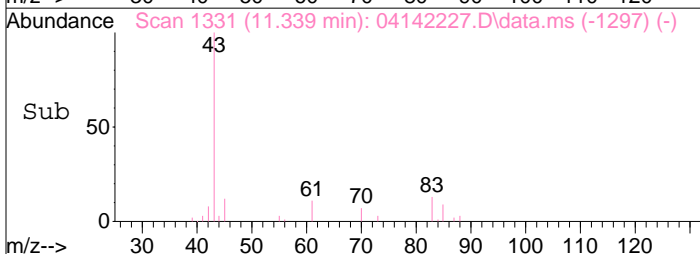
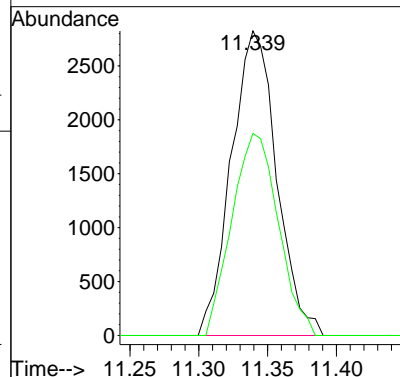
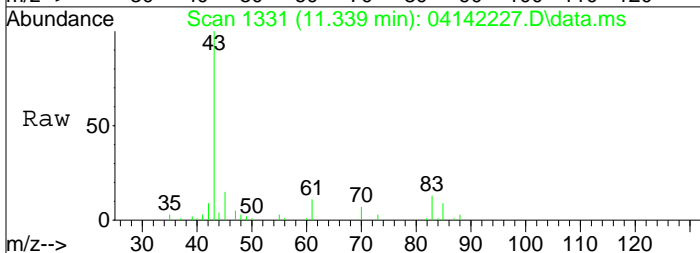
#31
 n-Hexane
 Concen: 1.64 ng
 RT: 11.29 min Scan# 1322
 Delta R.T. -0.011 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

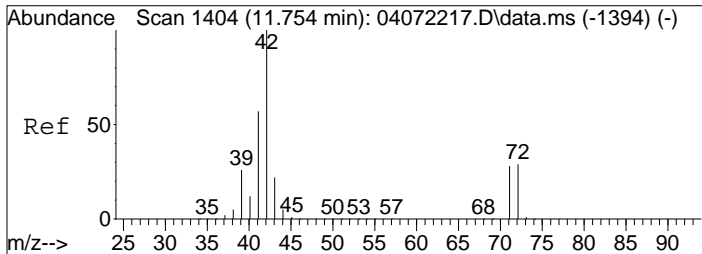
Tgt Ion:	Resp:	Lower	Upper
57	41582		
56	53.4	41.4	62.2
86	12.5	9.9	14.9



#32
 Chloroform
 Concen: 0.30 ng
 RT: 11.34 min Scan# 1331
 Delta R.T. -0.057 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

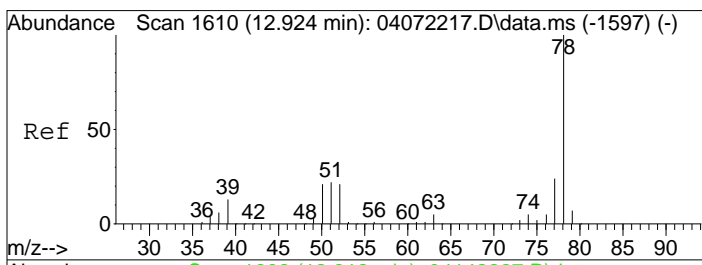
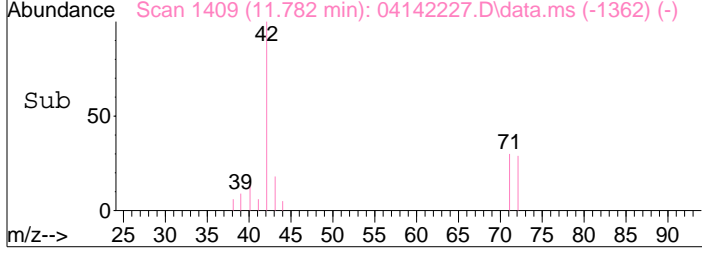
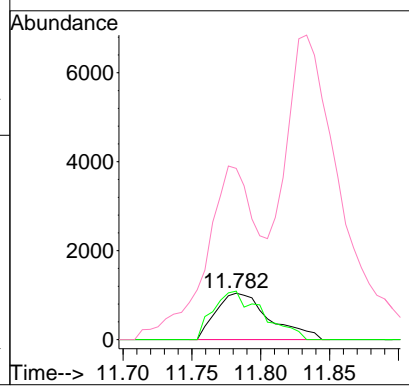
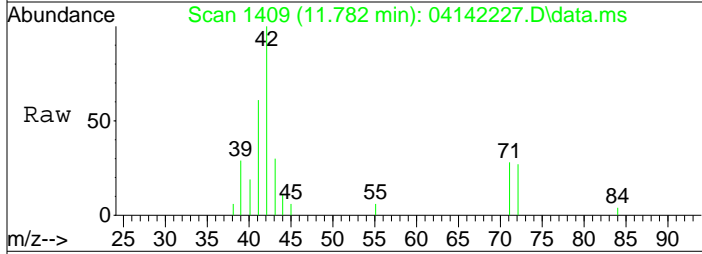
Tgt Ion:	Resp:	Lower	Upper
83	6477		
85	67.7	47.1	87.1





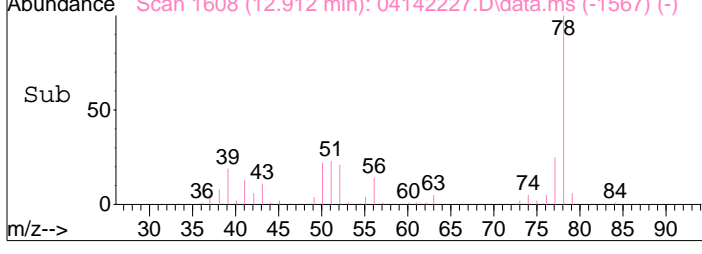
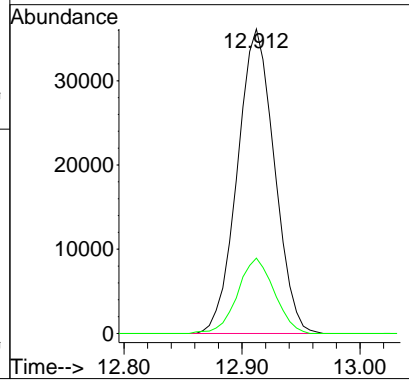
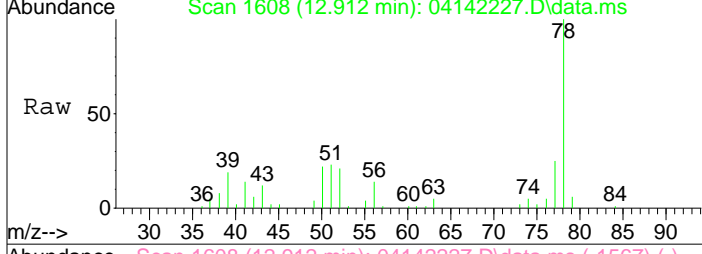
#34
 Tetrahydrofuran (THF)
 Concen: 0.37 ng
 RT: 11.78 min Scan# 1409
 Delta R.T. 0.017 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

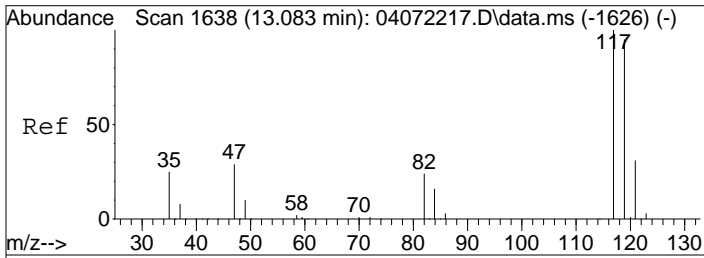
Tgt Ion:	Resp:	Lower	Upper
72	2824		
71	96.4	77.0	117.0
42	365.9	325.1	365.1#



#41
 Benzene
 Concen: 1.62 ng
 RT: 12.91 min Scan# 1608
 Delta R.T. -0.017 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

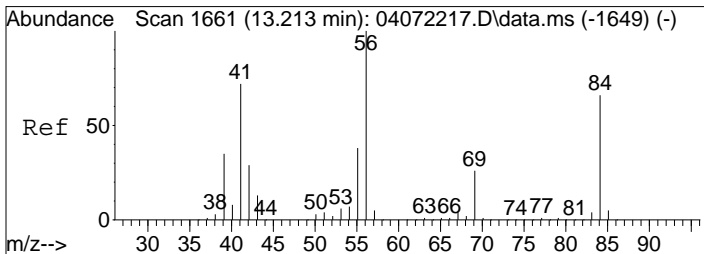
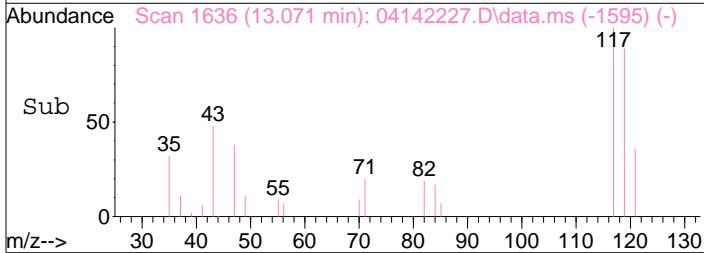
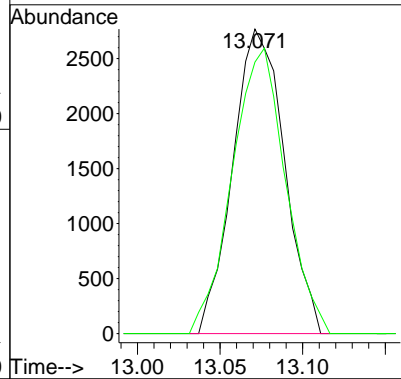
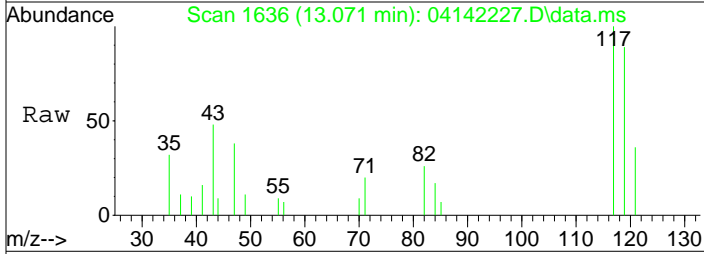
Tgt Ion:	Resp:	Lower	Upper
78	78882		
77	24.5	3.9	43.9





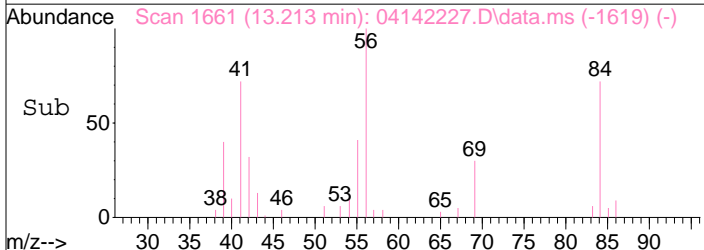
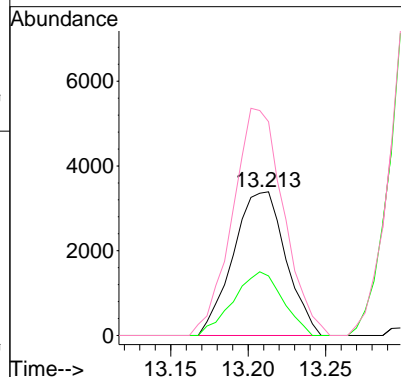
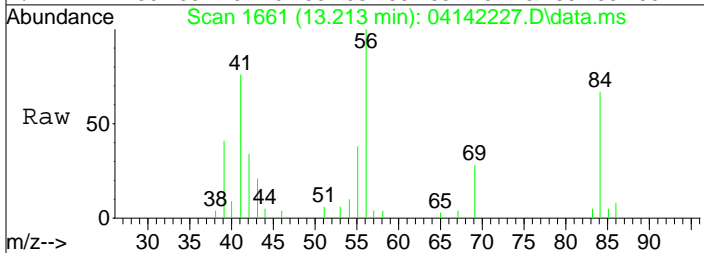
#42
 Carbon Tetrachloride
 Concen: 0.32 ng
 RT: 13.07 min Scan# 1636
 Delta R.T. -0.017 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

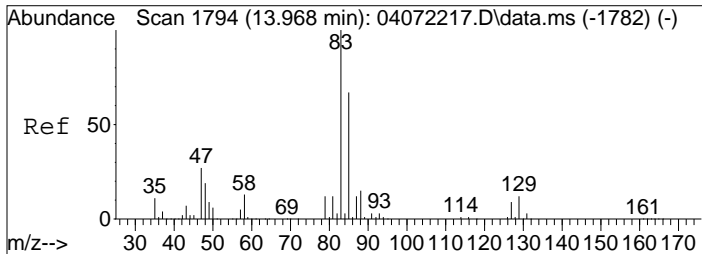
Tgt Ion: 117 Resp: 6008
 Ion Ratio Lower Upper
 117 100
 119 96.9 75.0 115.0



#43
 Cyclohexane
 Concen: 0.43 ng
 RT: 13.21 min Scan# 1661
 Delta R.T. -0.011 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

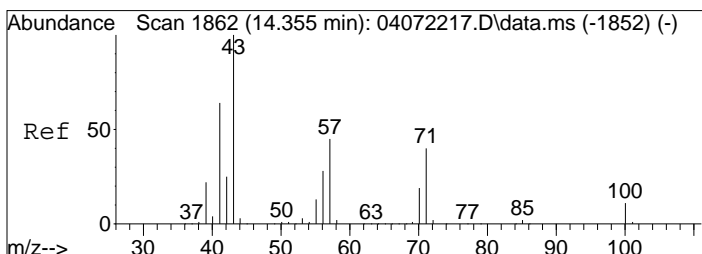
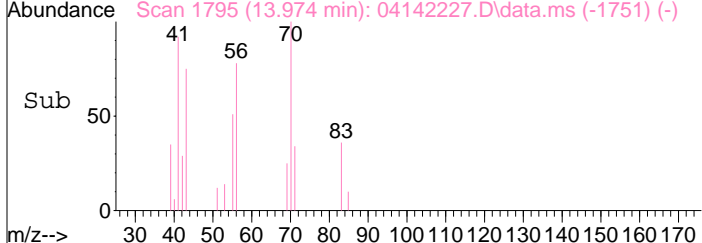
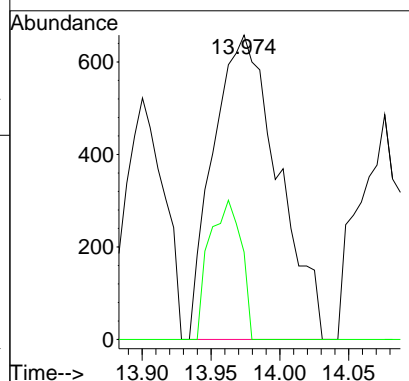
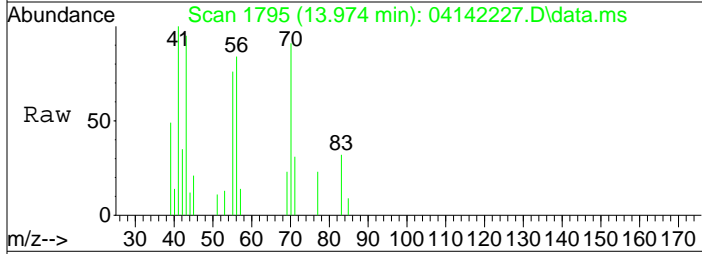
Tgt Ion: 84 Resp: 8021
 Ion Ratio Lower Upper
 84 100
 69 41.5 18.6 58.6
 56 153.6 128.4 168.4





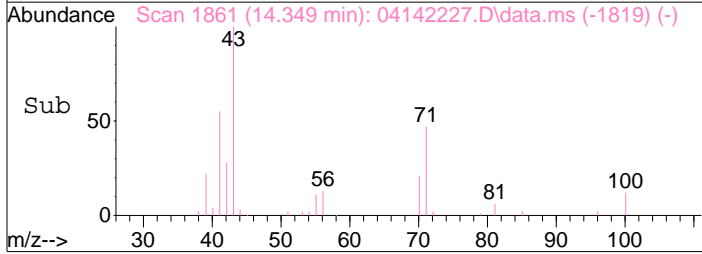
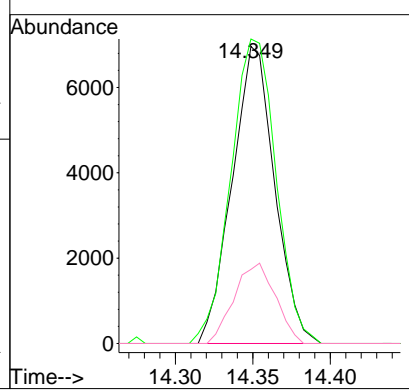
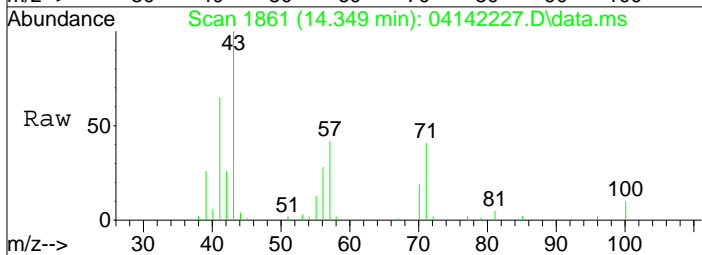
#46
 Bromodichloromethane
 Concen: 0.12 ng
 RT: 13.97 min Scan# 1795
 Delta R.T. -0.000 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

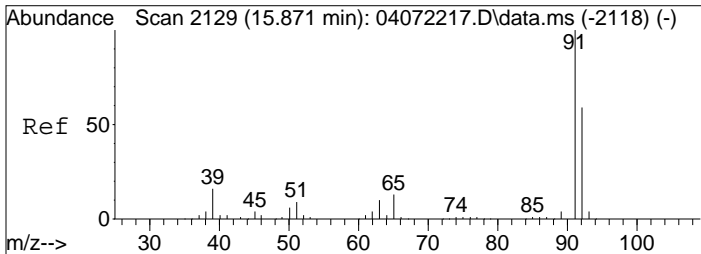
Tgt Ion	Resp	Lower	Upper
83	100		
85	22.5	46.2	86.2#



#51
 n-Heptane
 Concen: 1.05 ng
 RT: 14.35 min Scan# 1861
 Delta R.T. -0.011 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

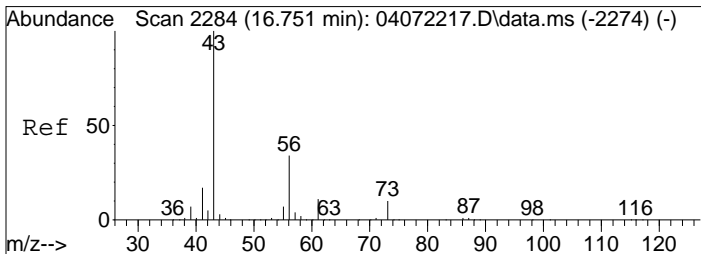
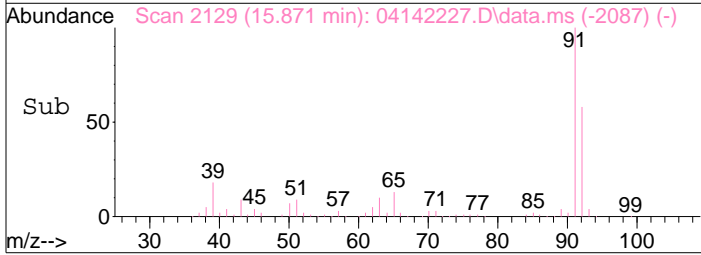
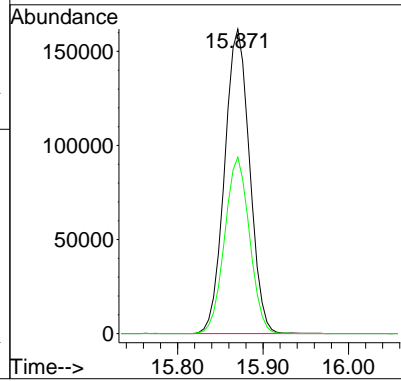
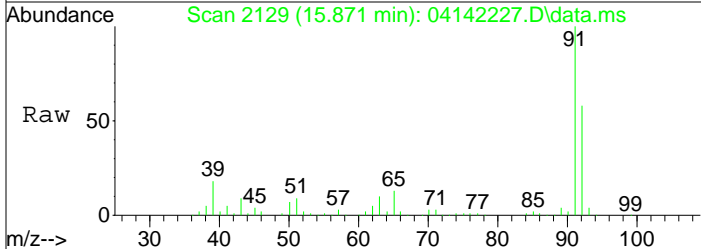
Tgt Ion	Resp	Lower	Upper
71	100		
57	108.9	89.9	129.9
100	26.3	7.5	47.5





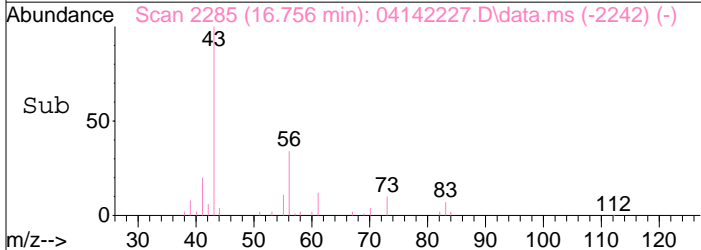
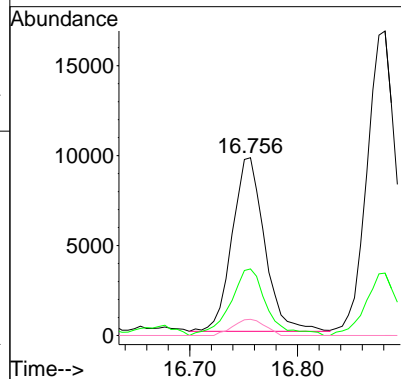
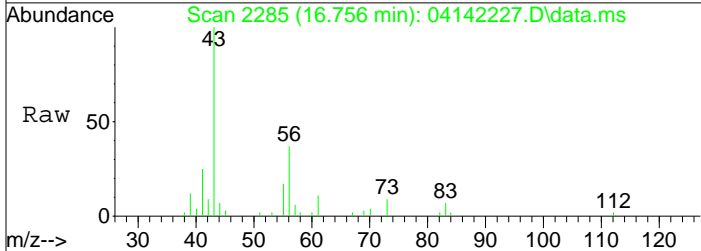
#58
 Toluene
 Concen: 5.91 ng
 RT: 15.87 min Scan# 2129
 Delta R.T. -0.011 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

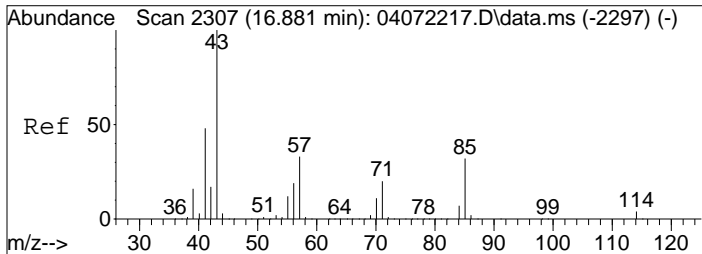
Tgt Ion	Resp	Lower	Upper
91	100		
92	57.5	38.3	78.3



#62
 n-Butyl Acetate
 Concen: 0.43 ng
 RT: 16.76 min Scan# 2285
 Delta R.T. -0.006 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

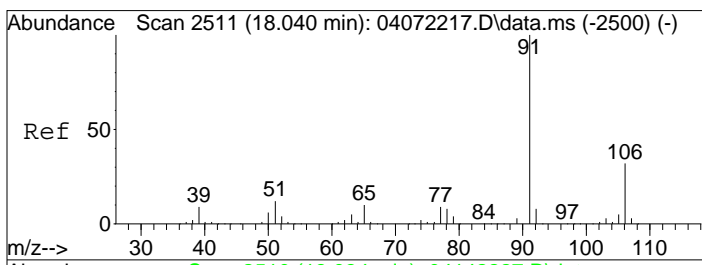
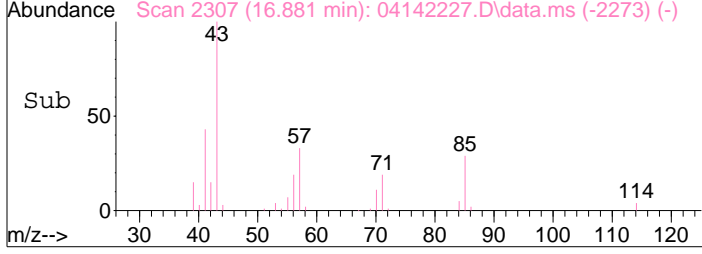
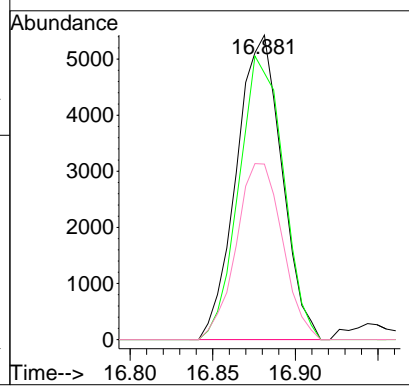
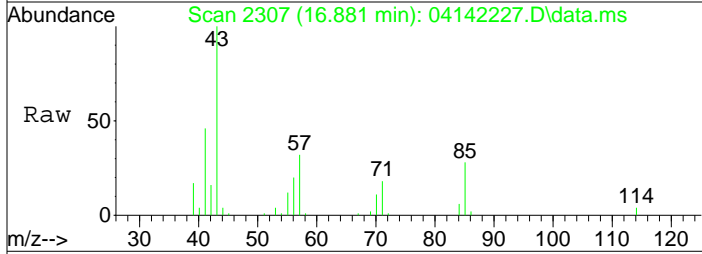
Tgt Ion	Resp	Lower	Upper
43	100		
56	42.2	13.8	53.8
73	9.1	0.0	29.9





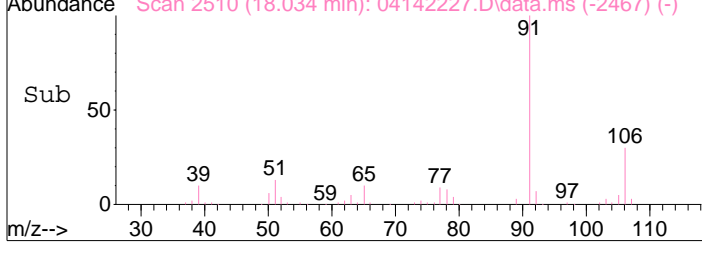
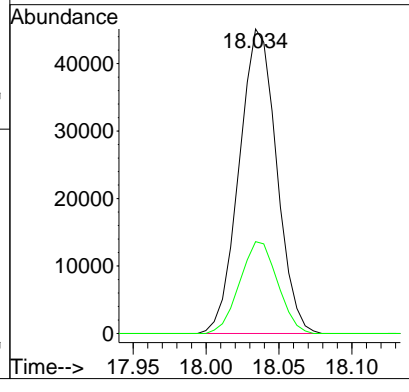
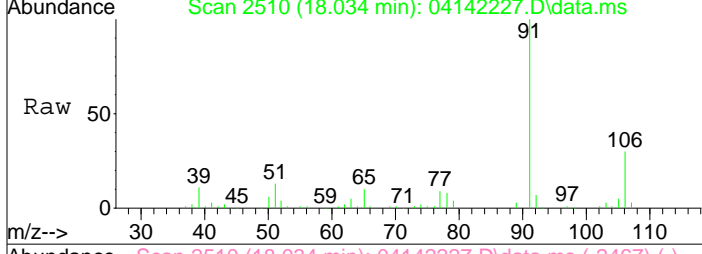
#63
 n-Octane
 Concen: 0.74 ng
 RT: 16.88 min Scan# 2307
 Delta R.T. -0.006 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

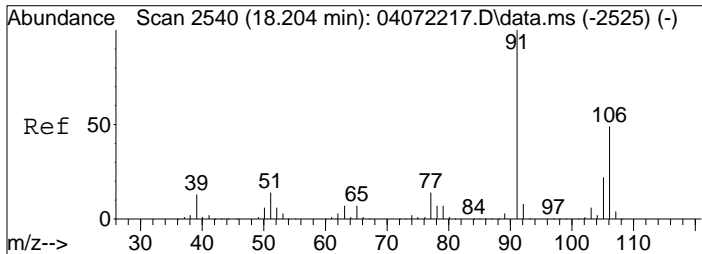
Tgt Ion	Resp	Lower	Upper
57	10382		
57	100		
85	91.3	77.4	116.0
71	58.7	47.0	70.6



#66
 Ethylbenzene
 Concen: 1.27 ng
 RT: 18.03 min Scan# 2510
 Delta R.T. -0.006 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

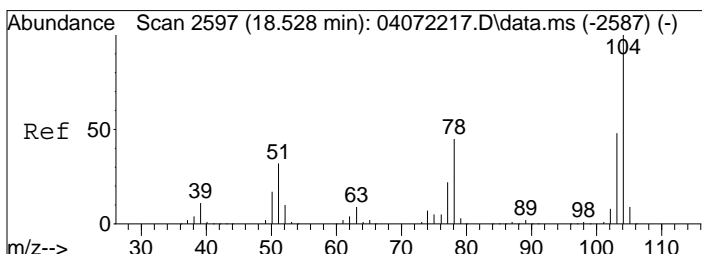
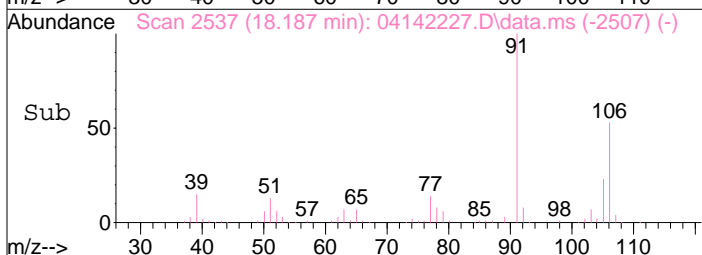
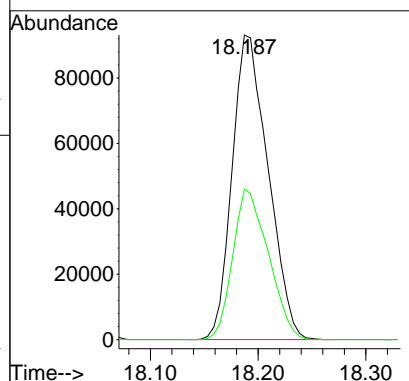
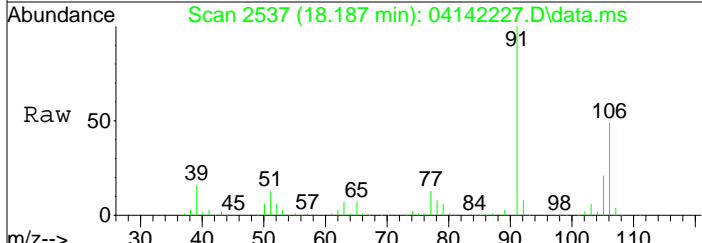
Tgt Ion	Resp	Lower	Upper
91	80471		
91	100		
106	30.5	11.6	51.6





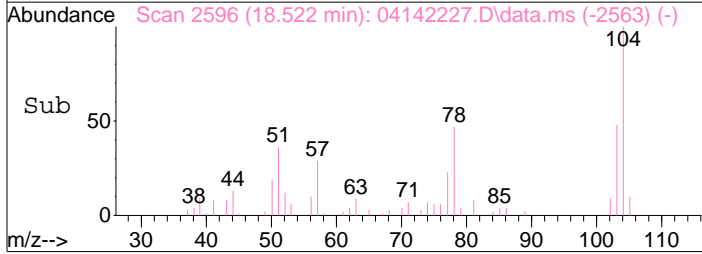
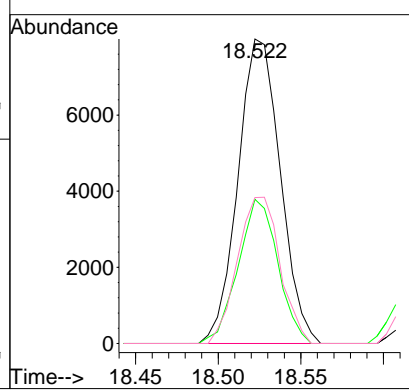
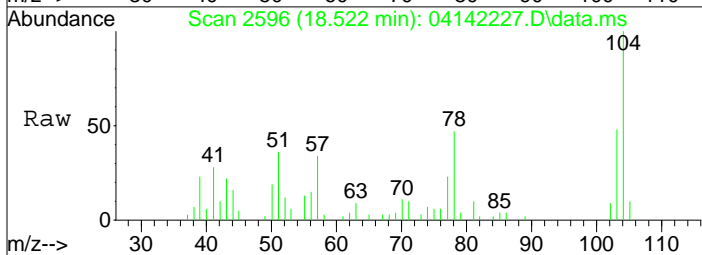
#67
 m- & p-Xylenes
 Concen: 4.24 ng
 RT: 18.19 min Scan# 2537
 Delta R.T. -0.028 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

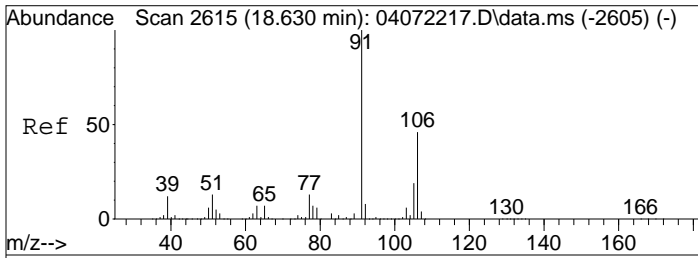
Tgt Ion	Resp	Lower	Upper
91	215802		
106	48.9	28.3	68.3



#69
 Styrene
 Concen: 0.39 ng
 RT: 18.52 min Scan# 2596
 Delta R.T. -0.011 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

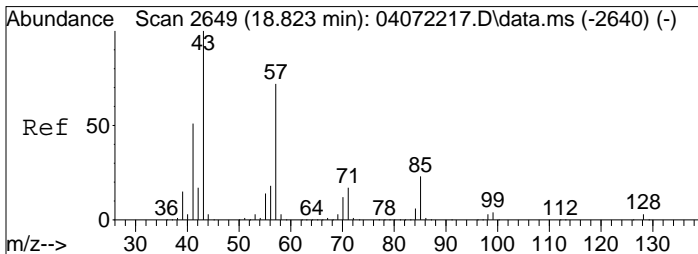
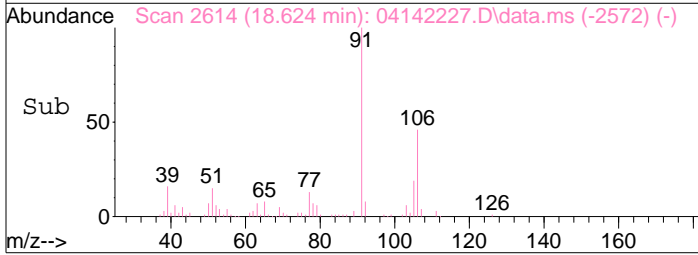
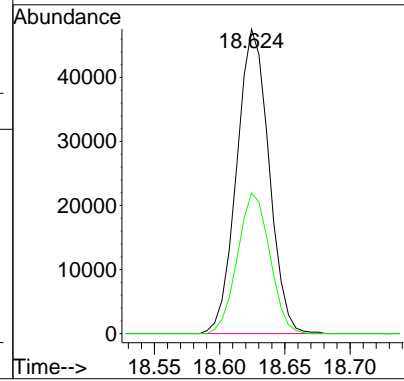
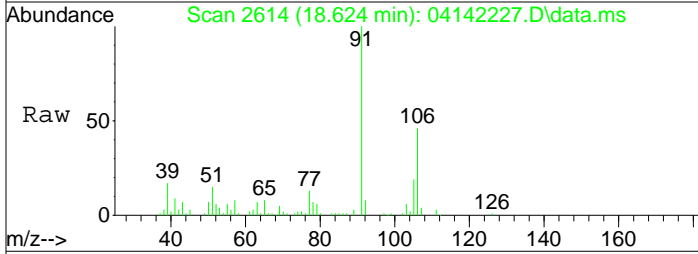
Tgt Ion	Resp	Lower	Upper
104	14266		
78	44.4	24.9	64.9
103	48.1	28.2	68.2





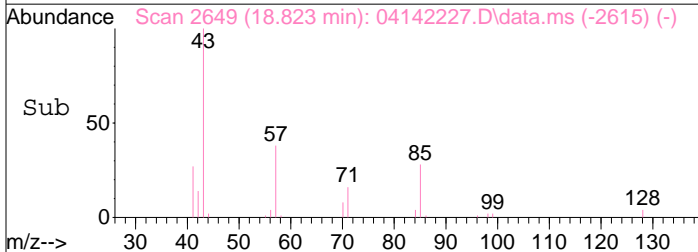
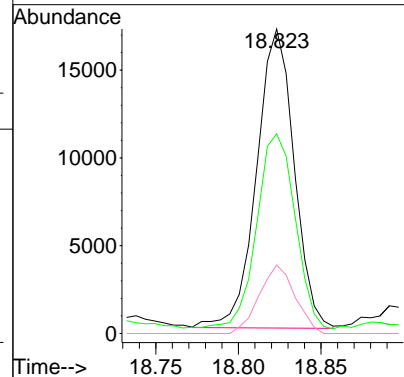
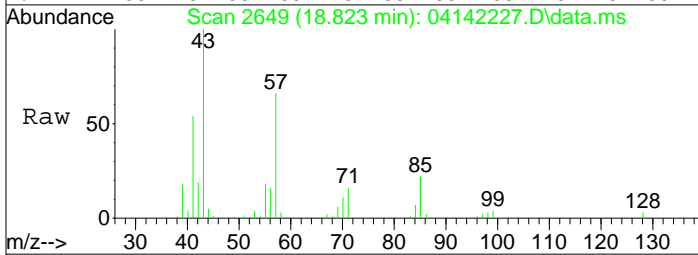
#70
 o-Xylene
 Concen: 1.59 ng
 RT: 18.62 min Scan# 2614
 Delta R.T. -0.011 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

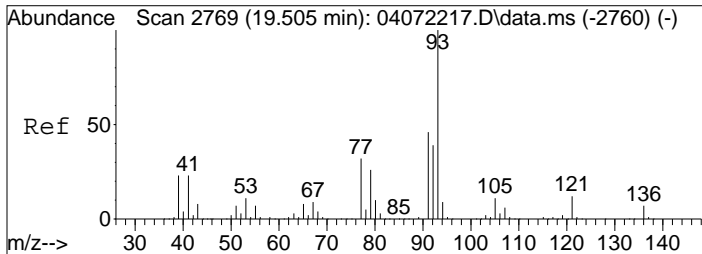
Tgt Ion	Resp	Lower	Upper
91	100		
106	46.3	26.5	66.5



#71
 n-Nonane
 Concen: 0.68 ng
 RT: 18.82 min Scan# 2649
 Delta R.T. -0.006 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

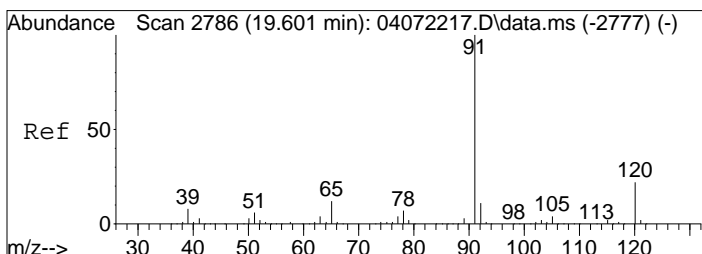
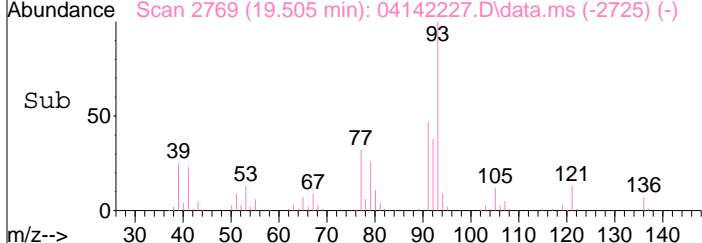
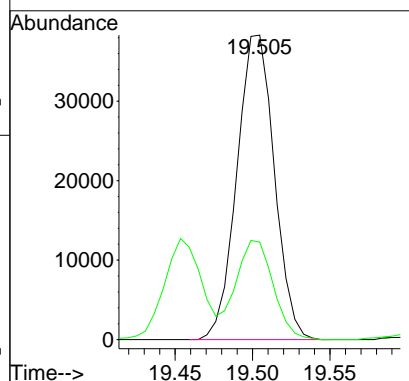
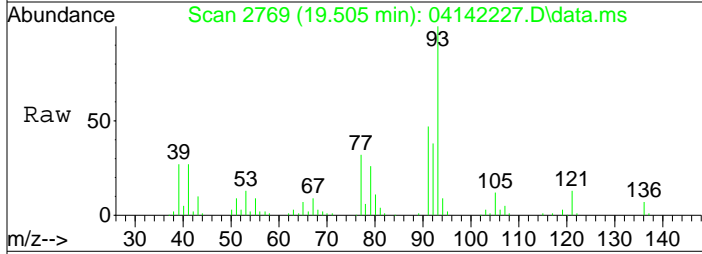
Tgt Ion	Resp	Lower	Upper
43	100		
57	66.8	52.5	92.5
85	21.7	3.6	43.6





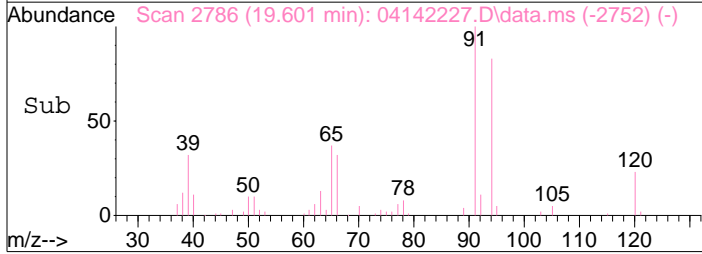
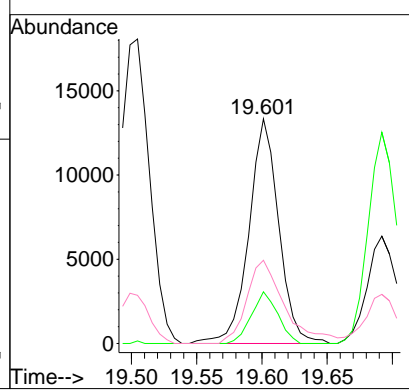
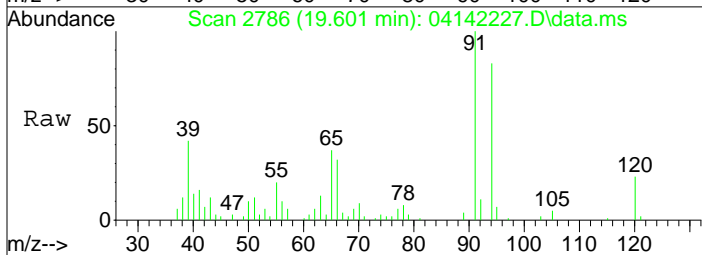
#75
 alpha-Pinene
 Concen: 2.10 ng
 RT: 19.50 min Scan# 2769
 Delta R.T. -0.000 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

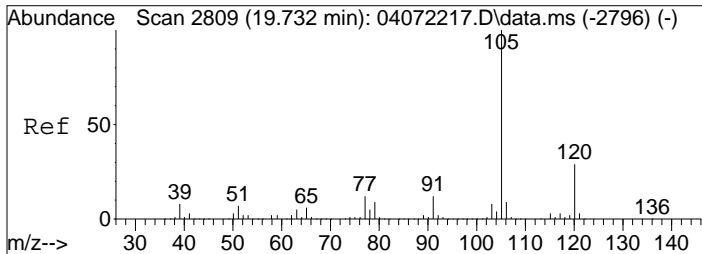
Tgt Ion	Resp	Lower	Upper
93	64538		
93	100		
77	32.8	12.7	52.7



#76
 n-Propylbenzene
 Concen: 0.27 ng
 RT: 19.60 min Scan# 2786
 Delta R.T. -0.006 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

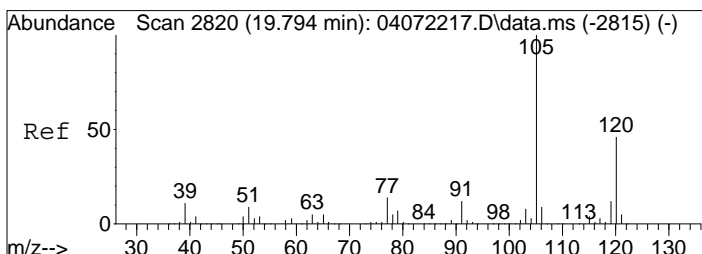
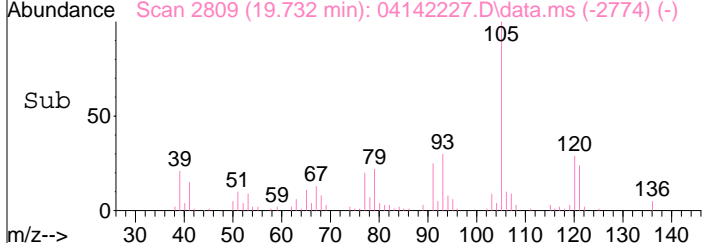
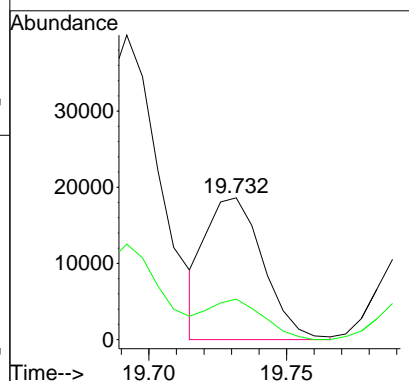
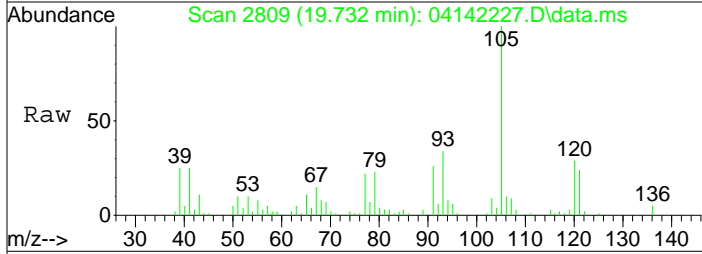
Tgt Ion	Resp	Lower	Upper
91	21238		
91	100		
120	20.3	2.3	42.3
65	46.7	0.0	31.8#





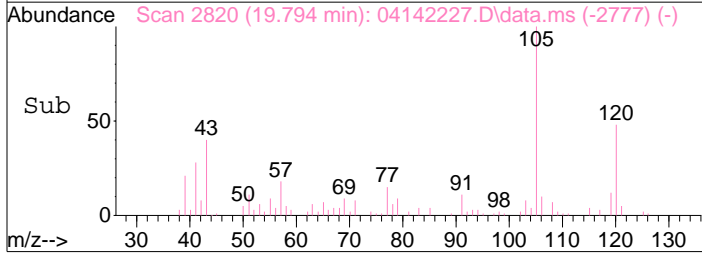
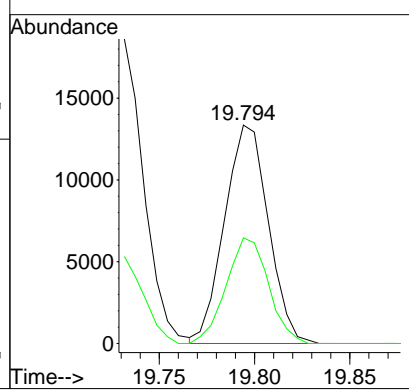
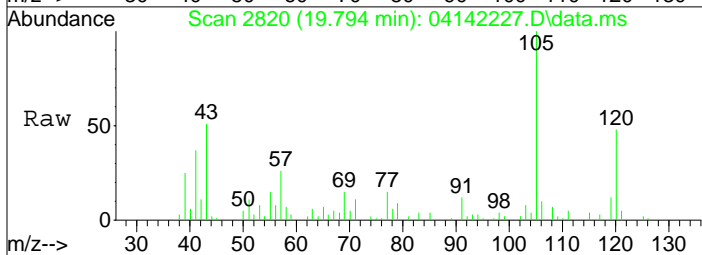
#78
 4-Ethyltoluene
 Concen: 0.43 ng
 RT: 19.73 min Scan# 2809
 Delta R.T. -0.000 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

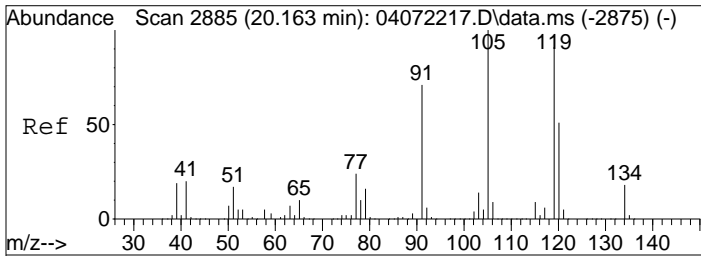
Tgt Ion	Resp	Lower	Upper
105	27147		
120	27.9	9.4	49.4



#79
 1,3,5-Trimethylbenzene
 Concen: 0.40 ng
 RT: 19.79 min Scan# 2820
 Delta R.T. -0.006 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

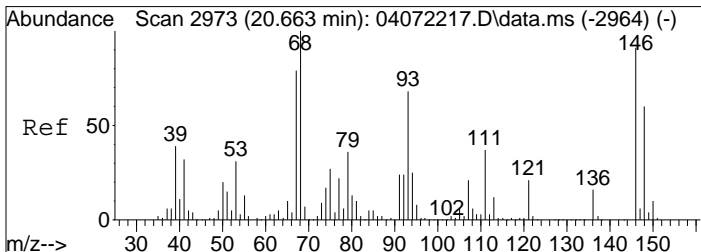
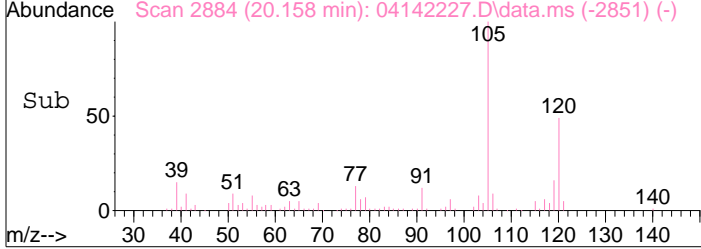
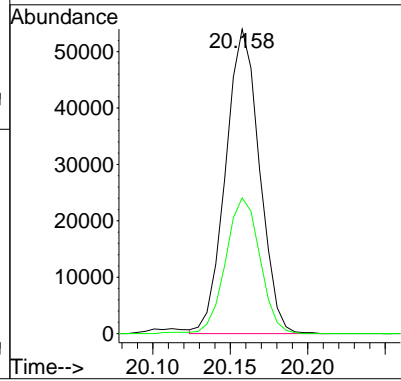
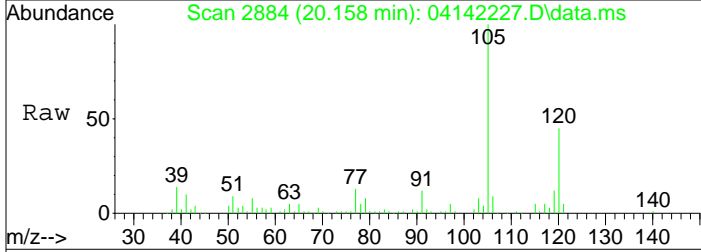
Tgt Ion	Resp	Lower	Upper
105	21340		
120	46.7	27.1	67.1





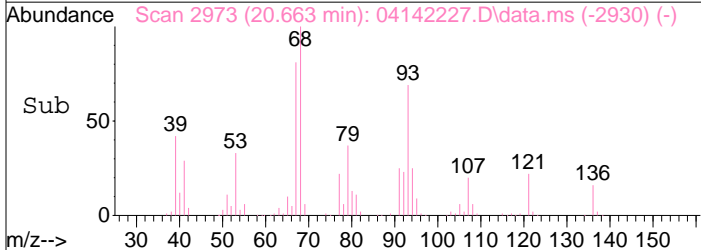
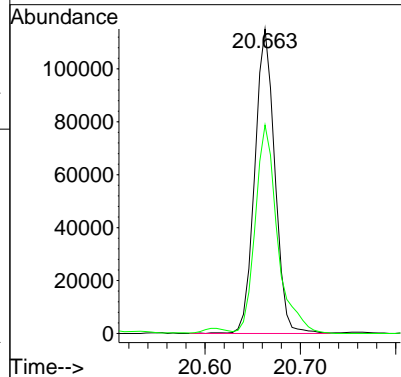
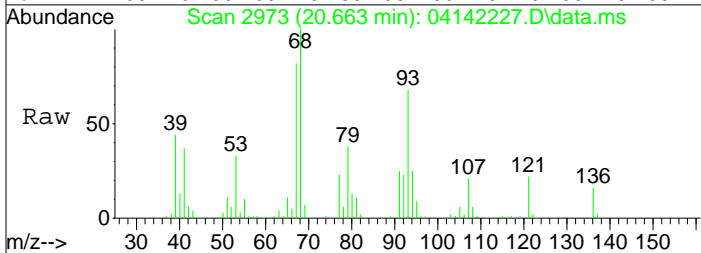
#82
 1,2,4-Trimethylbenzene
 Concen: 1.50 ng
 RT: 20.16 min Scan# 2884
 Delta R.T. -0.011 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

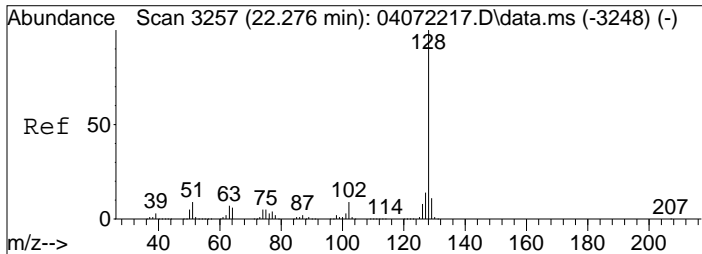
Tgt Ion: 105 Resp: 82249
 Ion Ratio Lower Upper
 105 100
 120 45.1 31.1 71.1



#91
 d-Limonene
 Concen: 8.22 ng
 RT: 20.66 min Scan# 2973
 Delta R.T. -0.006 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

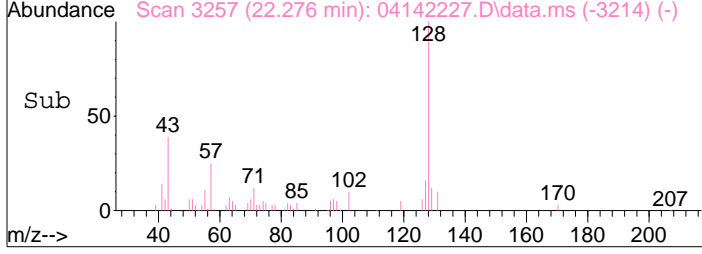
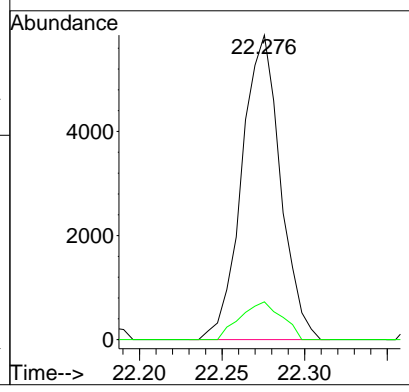
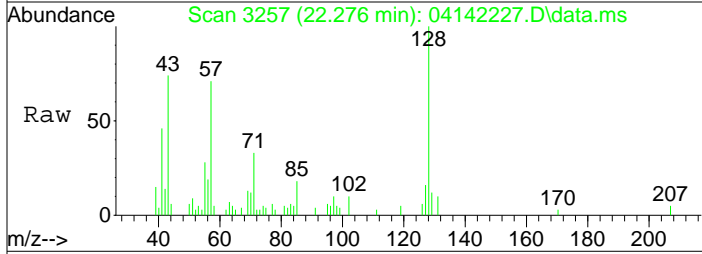
Tgt Ion: 68 Resp: 168083
 Ion Ratio Lower Upper
 68 100
 93 75.9 48.9 88.9





#95
 Naphthalene
 Concen: 0.14 ng
 RT: 22.28 min Scan# 3257
 Delta R.T. -0.005 min
 Lab File: 04142227.D
 Acq: 14 Apr 2022 21:06

Tgt Ion	Resp	Lower	Upper
128	100		
129	13.4	0.0	31.1



Data File : I:\MS09\DATA\2022 04\15\04152218.D
 Acq On : 15 Apr 2022 14:26
 Sample : P2201602-009dil (200mL)
 Misc : S35-04132201

Vial: 15
 Operator: WA/CG
 Inst : MS09

Quant Time: Apr 17 18:43:38 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

WA 4/17/22

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	11.17	130	119877	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	13.31	114	533294	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.64	54	145768	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.03	65	242847	13.244	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery	=	105.92%	
57) Toluene-d8 (SS2)	15.77	98	636905	11.991	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	95.92%	
73) Bromofluorobenzene (SS3)	19.03	174	185700	9.927	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	79.44%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.05	42	11392	0.689	ng	# 1
3) Dichlorodifluoromethan...	4.21	85	9124	0.403	ng	99
4) Chloromethane	4.50	50	3979	0.212	ng	94
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	5.21	54	2037	0.145	ng	99
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.34	45	934558	77.444	ng	100
11) Acetonitrile	6.59	41	1895	N.D.		
12) Acrolein	6.80	56	1184	0.160	ng	91
13) Acetone	7.00	58	27822	2.929	ng	# 37
14) Trichlorofluoromethane	7.24	101	7860	0.373	ng	100
15) 2-Propanol (Isopropanol)	7.51	45	82578	2.199	ng	94
16) Acrylonitrile	7.85	53	799	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	8.45	59	1850	N.D.		
19) Methylene Chloride	8.43	84	684	N.D.		
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	8.86	151	477	N.D.		
22) Carbon Disulfide	8.71	76	251	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)	10.52	72	1306	0.197	ng	# 19
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	11.31	61	12355	2.607	ng	93
31) n-Hexane	11.29	57	7004	0.328	ng	99
32) Chloroform	11.34	83	989	N.D.		
34) Tetrahydrofuran (THF)	11.82	72	211	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	13.30	61	19033	No Calib		
40) 1-Butanol	12.93	56	2637	No Calib	#	
41) Benzene	12.91	78	13615	0.330	ng	98
42) Carbon Tetrachloride	13.07	117	874	N.D.		
43) Cyclohexane	13.21	84	1430	0.090	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.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	14.08	57	15258	0.280	ng	86
50) Methyl Methacrylate	0.00	100	0	N.D.	d	

Data File : I:\MS09\DATA\2022 04\15\04152218.D
 Acq On : 15 Apr 2022 14:26
 Sample : P2201602-009dil (200mL)
 Misc : S35-04132201

Vial: 15
 Operator: WA/CG
 Inst : MS09

Quant Time: Apr 17 18:43:38 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

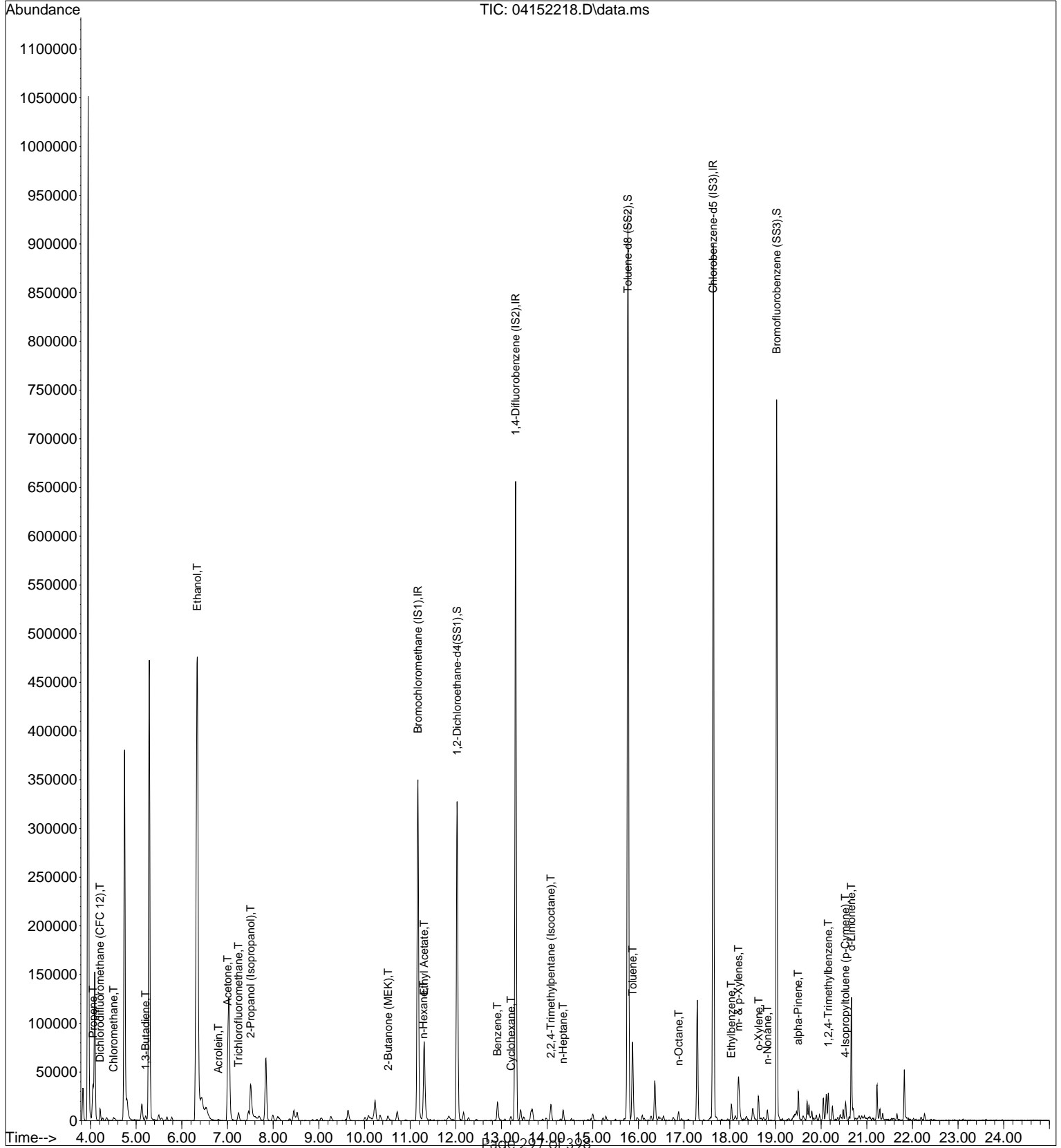
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.35	71	1946	0.181	ng	95
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.87	91	56591	1.159	ng	99
59) 2-Hexanone	16.13	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	16.76	43	3135	N.D.		
63) n-Octane	16.88	57	1668	0.136	ng	89
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	18.03	91	12841	0.231	ng	98
67) m- & p-Xylenes	18.19	91	34684	0.776	ng	99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	18.52	104	2282	N.D.		
70) o-Xylene	18.63	91	13384	0.297	ng	98
71) n-Nonane	18.82	43	4992	0.144	ng	91
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	19.15	105	878	N.D.		
75) alpha-Pinene	19.50	93	10074	0.374	ng	96
76) n-Propylbenzene	19.60	91	3337	N.D.		
77) 3-Ethyltoluene	19.73	105	4345	No Calib		
78) 4-Ethyltoluene	19.73	105	4345	N.D.		
79) 1,3,5-Trimethylbenzene	19.79	105	3522	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.67	105	1581	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.16	105	12518	0.260	ng	88
83) n-Decane	20.54	58	109	No Calib	#	
84) Benzyl Chloride	20.37	91	820	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	20.40	105	152	N.D.		
88) 4-Isopropyltoluene (p-...	20.53	119	7112	0.133	ng	91
89) 1,2,3-Trimethylbenzene	20.40	105	152	No Calib	#	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	20.66	68	25286	1.410	ng	94
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	21.23	58	323	No Calib	#	
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	22.28	128	1409	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	18.63	55	947	No Calib	#	
99) tert-Butylbenzene	20.16	119	1551	N.D.		
100) n-Butylbenzene	20.90	91	1323	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\2022 04\15\04152218.D
 Acq On : 15 Apr 2022 14:26
 Sample : P2201602-009dil (200mL)
 Misc : S35-04132201

Vial: 15
 Operator: WA/CG
 Inst : MS09

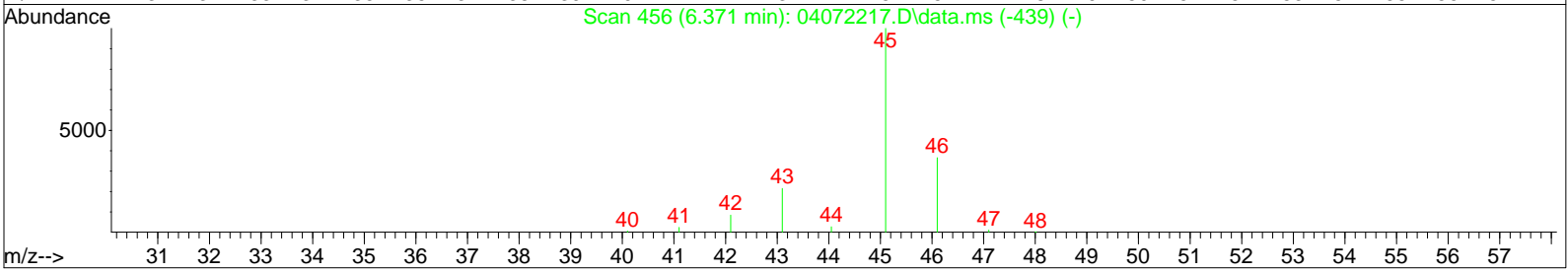
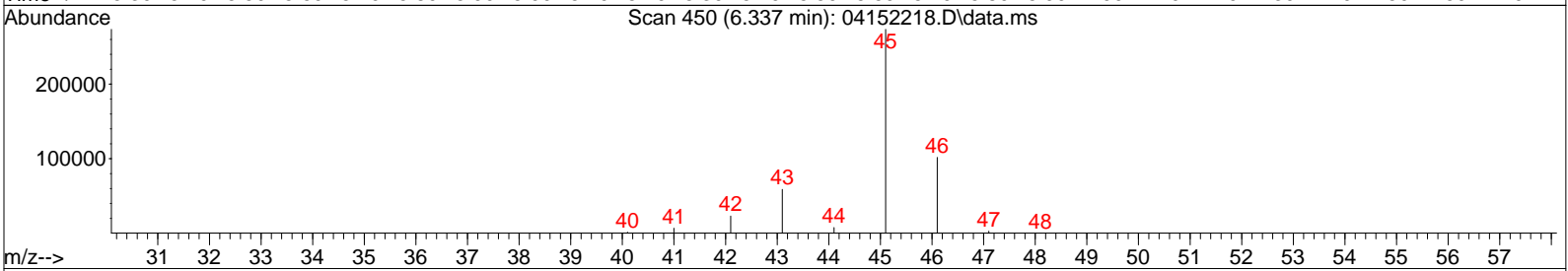
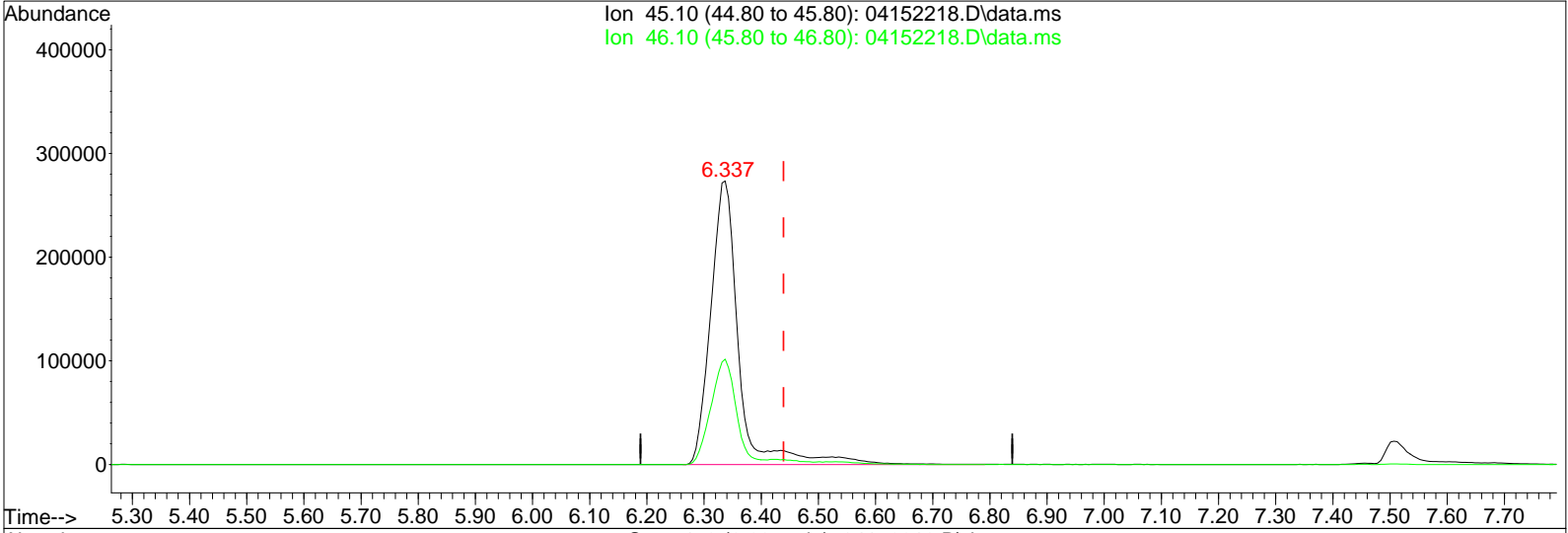
Quant Time: Apr 17 18:43:38 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2022 04\15\04152218.D
 Acq On : 15 Apr 2022 14:26
 Sample : P2201602-009dil (200mL)
 Misc : S35-04132201

Vial: 15
 Operator: WA/CG
 Inst : MS09

Quant Time: Apr 15 15:23:07 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



TIC: 04152218.D\data.ms

(10) Ethanol (T)

6.337min (-0.102) 77.44ng

response 934558

Ion	Exp%	Act%
45.10	100	100
46.10	36.70	36.78
0.00	0.00	0.00
0.00	0.00	0.00

Method Path : I:\MS09\Methods\
 Method File : R9040722.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Apr 07 16:31:14 2022
 Response Via : Initial Calibration



Calibration Files

0.1 =04072212.D 0.2 =04072213.D 0.5 =04072214.D 1.0 =04072215.D 5.0 =04072216.D 25 =04072217.D
 100 =04072219.D

Compound	0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD
1) IR Bromochloromethane... -----ISTD-----										
2) T Propene	1.980	1.683	1.746	1.660	1.634	1.638	1.633	1.827	1.725	7.14
3) T Dichlorodifluo...	2.833	2.364	2.564	2.404	2.174	2.269	2.170	2.111	2.361	10.23
4) T Chloromethane	2.457	2.091	2.210	2.091	1.655	1.993	1.837	1.347	1.960	17.55
5) T 1,2-Dichloro-1...	1.217	1.090	1.171	1.069	0.978	1.025	0.987	0.954	1.061	8.91
6) T Vinyl Chloride	1.858	1.625	1.726	1.639	1.531	1.627	1.569	1.543	1.640	6.59
7) T 1,3-Butadiene	1.511	1.362	1.508	1.425	1.378	1.531	1.506	1.501	1.465	4.53
8) T Bromomethane	0.938	0.785	0.890	0.848	0.782	0.849	0.809	0.799	0.837	6.60
9) T Chloroethane	0.878	0.684	0.783	0.778	0.698	0.737	0.722	0.718	0.750	8.35
10) T Ethanol	1.685	1.396	1.243	1.193	1.093	1.161	1.142	1.154	1.258	15.50
11) T Acetonitrile	3.350	3.405	3.413	3.183	2.958	3.047	2.960	2.934	3.156	6.62
12) T Acrolein	0.804	0.737	0.776	0.754	0.752	0.800	0.777	0.771	0.771	3.00
13) T Acetone	1.349	1.082	0.971	0.916	0.861	0.931	0.916	0.898	0.991	16.06
14) T Trichlorofluor...	2.633	2.296	2.316	2.206	1.996	2.119	2.034	2.001	2.200	9.81
15) T 2-Propanol (Is...	4.639	4.151	3.988	3.881	3.435	3.988	3.826	3.416	3.915	10.03
16) T Acrylonitrile	1.795	1.726	1.746	1.716	1.628	1.745	1.715	1.702	1.722	2.76
17) T 1,1-Dichloroet...	1.036	0.949	1.088	1.005	0.919	0.989	0.958	0.952	0.987	5.55
18) T 2-Methyl-2-Pro...			2.977	2.853	1.957	2.985	2.514	1.749	2.506	21.46
19) T Methylene Chlo...	1.174	1.033	1.081	1.037	0.939	1.017	0.989	0.980	1.031	6.95
20) T 3-Chloro-1-pro...	2.682	2.269	2.376	2.259	2.070	2.333	2.285	2.258	2.316	7.44
21) T Trichlorotrifl...	1.048	0.977	1.016	0.953	0.854	0.930	0.885	0.867	0.941	7.48
22) T Carbon Disulfide	3.654	3.243	3.482	3.381	3.276	3.642	3.560	3.508	3.468	4.50
23) T trans-1,2-Dich...	1.670	1.597	1.648	1.636	1.559	1.694	1.659	1.656	1.640	2.63
24) T 1,1-Dichloroet...	2.240	2.023	2.121	2.059	1.852	1.982	1.918	1.891	2.011	6.41
25) T Methyl tert-Bu...	3.477	3.050	3.232	3.072	2.428	2.733	2.276	1.663	2.741	21.64
26) T Vinyl Acetate	0.129	0.140	0.172	0.172	0.183	0.213	0.209	0.208	0.178	17.77
27) T 2-Butanone (MEK)	0.644	0.696	0.703	0.672	0.666	0.734	0.713	0.708	0.692	4.23
28) T cis-1,2-Dichlo...	1.805	1.596	1.727	1.626	1.530	1.649	1.619	1.614	1.646	5.14
29) T Diisopropyl Ether	1.053	0.936	1.004	0.980	0.914	1.030	0.901	0.825	0.955	7.92
30) T Ethyl Acetate	0.529	0.459	0.486	0.473	0.458	0.542	0.528	0.479	0.494	6.82
31) T n-Hexane	2.384	2.126	2.276	2.185	2.031	2.372	2.307	2.139	2.227	5.70
32) T Chloroform	2.214	1.947	2.010	1.950	1.778	1.907	1.845	1.811	1.933	7.13
33) S 1,2-Dichloroet...	1.912	1.914	1.915	1.931	1.936	1.899	1.894	1.896	1.912	0.80
34) T Tetrahydrofura...	0.700	0.664	0.670	0.651	0.623	0.678	0.663	0.663	0.664	3.32
35) T Ethyl tert-But...	1.314	1.236	1.281	1.246	1.184	1.336	1.321	1.292	1.276	4.01
36) T 1,2-Dichloroet...	1.909	1.631	1.800	1.744	1.594	1.698	1.645	1.629	1.706	6.24
37) IR 1,4-Difluorobenzen... -----ISTD-----										
38) T 1,1,1-Trichlor...	0.450	0.436	0.447	0.423	0.391	0.437	0.425	0.415	0.428	4.48
39) T Isopropyl Acetate									0.000	-1.00
40) T 1-Butanol									0.000	-1.00
41) T Benzene	1.180	0.982	1.002	0.934	0.870	0.951	0.923	0.898	0.968	9.89
42) T Carbon Tetrach...	0.400	0.336	0.387	0.364	0.345	0.392	0.381	0.371	0.372	6.05
43) T Cyclohexane	0.411	0.363	0.385	0.367	0.339	0.379	0.369	0.354	0.371	5.81
44) T tert-Amyl Meth...	0.723	0.668	0.661	0.634	0.612	0.732	0.728	0.701	0.683	6.67
45) T 1,2-Dichloropr...	0.304	0.272	0.284	0.272	0.242	0.270	0.263	0.261	0.271	6.66
46) T Bromodichlorom...	0.381	0.322	0.356	0.335	0.327	0.372	0.365	0.363	0.353	6.23
47) T Trichloroethene	0.338	0.264	0.284	0.274	0.250	0.276	0.265	0.256	0.276	9.95
48) T 1,4-Dioxane			0.189	0.194	0.181	0.205	0.201	0.200	0.195	4.52
49) T 2,2,4-Trimethy...	1.500	1.305	1.330	1.248	1.150	1.263	1.232	1.202	1.279	8.27
50) T Methyl Methacr...	0.091	0.086	0.097	0.095	0.093	0.108	0.104	0.101	0.097	7.44
51) T n-Heptane	0.261	0.242	0.266	0.253	0.234	0.259	0.254	0.253	0.253	4.17
52) T cis-1,3-Dichlo...	0.370	0.354	0.378	0.370	0.368	0.430	0.421	0.418	0.389	7.59
53) T 4-Methyl-2-pen...			0.264	0.255	0.248	0.293	0.294	0.290	0.274	7.53
54) T trans-1,3-Dich...	0.339	0.334	0.349	0.351	0.363	0.424	0.417	0.414	0.374	10.13

55)	T	1,1,2-Trichlor...	0.271	0.257	0.250	0.247	0.228	0.252	0.243	0.239	0.248	5.21
56)	IR	Chlorobenzene-d5 (...	-----ISTD-----									
57)	S	Toluene-d8 (SS2)	4.633	4.625	4.622	4.623	4.644	4.542	4.445	4.303	4.555	2.68
58)	T	Toluene	5.027	4.351	4.464	4.180	3.831	4.113	3.911	3.628	4.188	10.41
59)	T	2-Hexanone			3.282	3.165	3.068	3.473	3.332	3.040	3.227	5.17
60)	T	Dibromochlorom...	1.228	1.026	1.170	1.138	1.142	1.288	1.223	1.158	1.172	6.67
61)	T	1,2-Dibromoethane	1.147	1.135	1.173	1.103	1.061	1.165	1.108	1.049	1.118	4.09
62)	T	n-Butyl Acetate			3.476	3.389	3.358	3.842	3.695	3.343	3.517	5.85
63)	T	n-Octane	1.154	1.012	1.125	1.028	0.959	1.062	1.038	1.016	1.049	6.03
64)	T	Tetrachloroethene	1.368	1.148	1.274	1.198	1.126	1.210	1.142	1.077	1.193	7.77
65)	T	Chlorobenzene	3.417	2.929	2.905	2.834	2.578	2.789	2.650	2.446	2.819	10.42
66)	T	Ethylbenzene	5.429	4.731	4.910	4.737	4.463	4.910	4.662	4.293	4.767	7.14
67)	T	m- & p-Xylenes	4.322	3.702	4.064	3.822	3.544	3.987	3.796	3.409	3.831	7.63
68)	T	Bromoform	1.072	0.867	0.941	0.925	0.995	1.151	1.106	1.049	1.013	9.67
69)	T	Styrene	2.911	2.506	2.643	2.642	2.674	3.013	2.847	2.627	2.733	6.27
70)	T	o-Xylene	4.429	3.743	4.051	3.777	3.616	3.980	3.815	3.507	3.865	7.46
71)	T	n-Nonane	3.287	2.812	3.037	2.918	2.753	3.108	3.009	2.808	2.966	6.07
72)	T	1,1,2,2-Tetrac...	1.980	1.706	1.741	1.648	1.590	1.753	1.723	1.623	1.721	6.99
73)	S	Bromofluoroben...	1.620	1.610	1.588	1.611	1.659	1.633	1.583	1.529	1.604	2.43
74)	T	Cumene	5.574	4.888	5.100	4.919	4.613	5.004	4.701	4.180	4.872	8.28
75)	T	alpha-Pinene	2.473	2.221	2.229	2.222	2.143	2.527	2.427	2.243	2.311	6.15
76)	T	n-Propylbenzene	6.746	5.669	6.024	5.829	5.576	6.142	5.764	5.112	5.858	8.11
77)	T	3-Ethyltoluene									0.000	-1.00
78)	T	4-Ethyltoluene	5.090	4.658	4.834	4.709	4.570	5.013	4.715	4.173	4.720	6.00
79)	T	1,3,5-Trimethy...	4.396	3.902	4.086	3.962	3.834	4.257	4.020	3.618	4.009	6.07
80)	T	alpha-Methylst...									0.000	-1.00
81)	T	2-Ethyltoluene									0.000	-1.00
82)	T	1,2,4-Trimethy...	4.454	3.882	4.206	4.019	4.039	4.597	4.285	3.572	4.132	7.90
83)	T	n-Decane									0.000	-1.00
84)	T	Benzyl Chloride			2.463	2.640	3.178	4.000	3.838	3.169	3.215	19.20
85)	T	1,3-Dichlorobe...	2.567	2.370	2.458	2.359	2.317	2.543	2.346	2.066	2.378	6.59
86)	T	1,4-Dichlorobe...	2.762	2.370	2.467	2.388	2.318	2.493	2.360	2.103	2.408	7.72
87)	T	sec-Butylbenzene	6.000	5.280	5.607	5.389	5.259	5.760	5.343	4.600	5.405	7.69
88)	T	4-Isopropyltol...	4.751	4.440	4.782	4.698	4.564	4.955	4.566	3.930	4.586	6.73
89)	T	1,2,3-Trimethy...									0.000	-1.00
90)	T	1,2-Dichlorobe...	2.614	2.343	2.348	2.276	2.216	2.421	2.233	1.957	2.301	8.16
91)	T	d-Limonene	1.338	1.262	1.455	1.453	1.503	1.846	1.814	1.628	1.537	13.70
92)	T	1,2-Dibromo-3-...	0.859	0.815	0.833	0.829	0.882	0.984	0.925	0.829	0.870	6.74
93)	T	n-Undecane									0.000	-1.00
94)	T	1,2,4-Trichlor...	2.368	1.874	1.810	1.786	1.849	2.038	1.928	1.696	1.919	10.83
95)	T	Naphthalene			4.898	4.991	5.300	5.782	5.441	4.793	5.201	7.23
96)	T	n-Dodecane									0.000	-1.00
97)	T	Hexachlorobuta...	1.549	1.272	1.237	1.182	1.186	1.316	1.269	1.190	1.275	9.46
98)	T	Cyclohexanone									0.000	-1.00
99)	T	tert-Butylbenzene	4.548	3.922	4.188	3.959	3.848	4.238	3.851	3.227	3.973	9.68
100)	T	n-Butylbenzene	4.970	4.446	4.489	4.411	4.370	4.832	4.540	4.030	4.511	6.39
101)	T	1,1,1,2-Tetrac...	1.229	0.969	1.057	1.006	0.965	1.063	1.015	0.929	1.029	9.02

(#) = Out of Range

R9040722.M Thu Apr 07 16:39:20 2022

4/13/22

Primary Source Standards Concentrations (Working & Initial Calibration)

1ng/L Std. ID: 40ng/L Std. ID:
4ng/L Std. ID: 200ng/L Std. ID:
20ng/L Std. ID: 1000ng/L Std. ID:

Table with columns for Compounds, Source Std. (mg/m³), Dilution Factors (1, 5, 25, 50, 250, 1000), and Working STD Conc. (ng/L) at various dilution points (4, 20, 0.050, 0.0250, 0.100, 0.25, 0.125, 0.200, 0.50, 200). Rows list compounds such as Propene, Dichlorodifluoromethane, Chloromethane, Freon-114, Vinyl Chloride, 1,3-Butadiene, Bromomethane, Chloroethane, Ethanol, Acetonitrile, Acrolein, Acetone, Trichlorofluoromethane, Isopropanol, Acrylonitrile, 1,1-Dichloroethene, tert-Butanol, Methylene Chloride, Allyl Chloride, Trichlorotrifluoroethane, Carbon Disulfide, trans-1,2-Dichloroethene, 1,1-Dichloroethane, Methyl tert-Butyl Ether, Vinyl Acetate, 2-Butanone, cis-1,2-Dichloroethene, Diisopropyl Ether, Ethyl Acetate, n-Hexane, Chloroform, Tetrahydrofuran, Ethyl tert-Butyl Ether, 1,2-Dichloroethane, 1,1,1-Trichloroethane, Benzene, Carbon Tetrachloride, Cyclohexane, tert-Amyl Methyl Ether, 1,2-Dichloropropane, Bromodichloromethane, Trichloroethene, 1,4-Dioxane, Isocaine, Methyl Methacrylate, and n-Heptane.

Primary Source Standards Concentrations (Working & Initial Calibration)

1 ng/L Std. ID: 40ng/L Std. ID:
4ng/L Std. ID: 200ng/L Std. ID:
20ng/L Std. ID: 1000ng/L Std. ID:

S35-04052208
S35-04052201
S35-04052202

Compounds	Source Std. mg/m³	1	5	Primary Working Standards			1000	Working STD Conc. (ng/L): Injection (L): ICAL Points:	4		20		200		200	
				1000ng/L	200ng/L	40ng/L			20ng/L	4ng/L	0.050	0.0250	0.050	0.125	0.25	50ng
cis-1,3-Dichloropropene	1.05	1050	210	42.0	21.0	4.20	1.05	0.105	0.210	0.525	1.05	5.25	26.25	52.5	105	
4-Methyl-2-pentanone	2.08	2080	416	83.2	41.6	8.32	2.08	0.208	0.416	1.040	2.08	10.40	52.00	104.0	208	
trans-1,3-Dichloropropene	1.01	1010	202	40.4	20.2	4.04	1.01	0.101	0.202	0.505	1.01	5.05	25.25	50.5	101	
1,1,2-Trichloroethane	1.04	1040	208	41.6	20.8	4.16	1.04	0.104	0.208	0.520	1.04	5.20	26.00	52.0	104	
Toluene	1.03	1030	206	41.2	20.6	4.12	1.03	0.103	0.206	0.515	1.03	5.15	25.75	51.5	103	
2-Hexanone	2.05	2050	410	82.0	41.0	8.20	2.05	0.205	0.410	1.025	2.05	10.25	51.25	102.5	205	
Dibromochloromethane	1.05	1050	210	42.0	21.0	4.20	1.05	0.105	0.210	0.525	1.05	5.25	26.25	52.5	105	
1,2-Dibromoethane	1.04	1040	208	41.6	20.8	4.16	1.04	0.104	0.208	0.520	1.04	5.20	26.00	52.0	104	
n-Butyl Acetate	2.04	2040	408	81.6	40.8	8.16	2.04	0.204	0.408	1.020	2.04	10.20	51.00	102.0	204	
n-Octane	1.05	1050	210	42.0	21.0	4.20	1.05	0.105	0.210	0.525	1.05	5.25	26.25	52.5	105	
Tetrachloroethene	1.04	1040	208	41.6	20.8	4.16	1.04	0.104	0.208	0.520	1.04	5.20	26.00	52.0	104	
Chlorobenzene	1.04	1040	208	41.6	20.8	4.16	1.04	0.104	0.208	0.520	1.04	5.20	26.00	52.0	104	
Ethylbenzene	1.03	1030	206	41.2	20.6	4.12	1.03	0.103	0.206	0.515	1.03	5.15	25.75	51.5	103	
m-&p-Xylene	2.06	2060	412	82.4	41.2	8.24	2.06	0.206	0.412	1.030	2.06	10.30	51.50	103.0	206	
Bromoform	1.04	1040	208	41.6	20.8	4.16	1.04	0.104	0.208	0.520	1.04	5.20	26.00	52.0	104	
Styrene	1.03	1030	206	41.2	20.6	4.12	1.03	0.103	0.206	0.515	1.03	5.15	25.75	51.5	103	
o-Xylene	1.04	1040	208	41.6	20.8	4.16	1.04	0.104	0.208	0.520	1.04	5.20	26.00	52.0	104	
n-Heptane	1.04	1040	208	41.6	20.8	4.16	1.04	0.104	0.208	0.520	1.04	5.20	26.00	52.0	104	
1,1,2,2-Tetrachloroethane	1.04	1040	208	41.6	20.8	4.16	1.04	0.104	0.208	0.520	1.04	5.20	26.00	52.0	104	
Cumene	1.04	1040	208	41.6	20.8	4.16	1.04	0.104	0.208	0.520	1.04	5.20	26.00	52.0	104	
alpha-Pinene	1.08	1080	216	43.2	21.6	4.32	1.08	0.108	0.216	0.540	1.08	5.40	27.00	54.0	108	
n-Propylbenzene	1.05	1050	210	42.0	21.0	4.20	1.05	0.105	0.210	0.525	1.05	5.25	26.25	52.5	105	
4-Ethyltoluene	1.06	1060	212	42.4	21.2	4.24	1.06	0.106	0.212	0.530	1.06	5.30	26.50	53.0	106	
1,3,5-Trimethylbenzene	1.04	1040	208	41.6	20.8	4.16	1.04	0.104	0.208	0.520	1.04	5.20	26.00	52.0	104	
1,2,4-Trimethylbenzene	1.03	1030	206	41.2	20.6	4.12	1.03	0.103	0.206	0.515	1.03	5.15	25.75	51.5	103	
Benzyl Chloride	2.06	2060	412	82.4	41.2	8.24	2.06	0.206	0.412	1.030	2.06	10.30	51.50	103.0	206	
1,3-Dichlorobenzene	1.04	1040	208	41.6	20.8	4.16	1.04	0.104	0.208	0.520	1.04	5.20	26.00	52.0	104	
1,4-Dichlorobenzene	1.04	1040	208	41.6	20.8	4.16	1.04	0.104	0.208	0.520	1.04	5.20	26.00	52.0	104	
sec-Butylbenzene	1.04	1040	208	41.6	20.8	4.16	1.04	0.104	0.208	0.520	1.04	5.20	26.00	52.0	104	
p-Isopropyltoluene	1.04	1040	208	41.6	20.8	4.16	1.04	0.104	0.208	0.520	1.04	5.20	26.00	52.0	104	
1,2-Dichlorobenzene	1.05	1050	210	42.0	21.0	4.20	1.05	0.105	0.210	0.525	1.05	5.25	26.25	52.5	105	
d-Limonene	1.05	1050	210	42.0	21.0	4.20	1.05	0.105	0.210	0.525	1.05	5.25	26.25	52.5	105	
1,2-Dibromo-3-chloropropane	2.00	2000	400	80.0	40.0	8.00	2.00	0.200	0.400	1.000	2.00	10.00	50.00	100.0	200	
1,2,4-Trichlorobenzene	2.04	2040	408	81.6	40.8	8.16	2.04	0.204	0.408	1.020	2.04	10.20	51.00	102.0	204	
Naphthalene	1.04	1040	208	41.6	20.8	4.16	1.04	0.104	0.208	0.520	1.04	5.20	26.00	52.0	104	
Hexachloro-1,3-butadiene	1.03	1030	206	41.2	20.6	4.12	1.03	0.103	0.206	0.515	1.03	5.15	25.75	51.5	103	
tert-Butylbenzene	1.04	1040	208	41.6	20.8	4.16	1.04	0.104	0.208	0.520	1.04	5.20	26.00	52.0	104	
n-Butylbenzene	1.04	1040	208	41.6	20.8	4.16	1.04	0.104	0.208	0.520	1.04	5.20	26.00	52.0	104	
1,1,1,2-Tetrachloroethane	1.04	1040	208	41.6	20.8	4.16	1.04	0.104	0.208	0.520	1.04	5.20	26.00	52.0	104	

Method : I:\MS09\Methods\R9040722.M (RTE Integrator)
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration

 4/7/22

#	ID	Conc	ISTD Conc	Path\File
1	0.1	0	13	I:\MS09\DATA\2022_04\07\04072212.D
2	0.2	0	13	I:\MS09\DATA\2022_04\07\04072213.D
3	0.5	1	13	I:\MS09\DATA\2022_04\07\04072214.D
4	1.0	1	13	I:\MS09\DATA\2022_04\07\04072215.D
5	5.0	5	13	I:\MS09\DATA\2022_04\07\04072216.D
6	25	26	13	I:\MS09\DATA\2022_04\07\04072217.D
7	50	52	13	I:\MS09\DATA\2022_04\07\04072218.D
8	100	104	13	I:\MS09\DATA\2022_04\07\04072219.D

#	ID	Update Time	Quant Time	Acquisition Time
1	0.1	Apr 07 16:29 2022	Apr 07 15:34 2022	7 Apr 2022 12:10
2	0.2	Apr 07 16:29 2022	Apr 07 15:33 2022	7 Apr 2022 12:44
3	0.5	Apr 07 16:29 2022	Apr 07 15:31 2022	7 Apr 2022 13:17
4	1.0	Apr 07 16:30 2022	Apr 07 15:30 2022	7 Apr 2022 13:50
5	5.0	Apr 07 16:30 2022	Apr 07 15:29 2022	7 Apr 2022 14:24
6	25	Apr 07 16:30 2022	Apr 07 15:25 2022	7 Apr 2022 14:57
7	50	Apr 07 16:30 2022	Apr 07 15:58 2022	7 Apr 2022 15:31
8	100	Apr 07 16:31 2022	Apr 07 16:28 2022	7 Apr 2022 16:04

R9040722.M

Thu Apr 07 16:40:05 2022

Data File : I:\MS09\DATA\2022 04\07\04072212.D
 Acq On : 7 Apr 2022 12:10
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S35-03082201/S35-04052208 (5/5)

Vial: 5
 Operator: SC
 Inst : MS09

Quant Time: Apr 07 15:34:23 2022

4/7/22

Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 15:24:56 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	11.17	130	151253	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.31	114	654030	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	17.64	54	164343	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.03	65	289141	14.136	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	113.12%	
57) Toluene-d8 (SS2)	15.77	98	761466	10.494	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	83.92%	
73) Bromofluorobenzene (SS3)	19.03	174	266274	10.348	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	82.80%	

Target Compounds

						Qvalue
2) Propene	4.11	42	2492	0.152	ng	95
3) Dichlorodifluoromethan...	4.26	85	3600	0.127	ng	# 94
4) Chloromethane	4.55	50	3032	0.153	ng	95
5) 1,2-Dichloro-1,1,2,2-t...	4.79	135	1590	0.109	ng	98
6) Vinyl Chloride	4.97	62	2338	0.132	ng	91
7) 1,3-Butadiene	5.24	54	1901	0.127	ng	90
8) Bromomethane	5.67	94	1158	0.108	ng	93
9) Chloroethane	6.01	64	1084	0.129	ng	# 43
10) Ethanol	6.34	45	7379	0.694	ng	78
11) Acetonitrile	6.61	41	3770	0.128	ng	# 22
12) Acrolein	6.81	56	1945	0.263	ng	97
13) Acetone	7.04	58	8471	0.841	ng	93
14) Trichlorofluoromethane	7.26	101	3282	0.127	ng	97
15) 2-Propanol (Isopropanol)	7.54	45	11338	0.307	ng	82
16) Acrylonitrile	7.78	53	4409	0.267	ng	91
17) 1,1-Dichloroethene	8.23	96	1341	0.119	ng	# 86
18) 2-Methyl-2-Propanol (t...	8.51	59	9700	0.359	ng	# 55
19) Methylene Chloride	8.44	84	1477	0.114	ng	92
20) 3-Chloro-1-propene (Al...	8.61	41	3407	0.155	ng	81
21) Trichlorotrifluoroethane	8.88	151	1369	0.111	ng	99
22) Carbon Disulfide	8.73	76	9286	0.213	ng	93
23) trans-1,2-Dichloroethene	9.73	61	2142	0.124	ng	100
24) 1,1-Dichloroethane	9.97	63	2846	0.124	ng	96
25) Methyl tert-Butyl Ether	10.12	73	4417	0.139	ng	94
26) Vinyl Acetate	10.25	86	529	0.225	ng	# 1
27) 2-Butanone (MEK)	10.52	72	1605	0.200	ng	# 25
28) cis-1,2-Dichloroethene	11.00	61	2272	0.128	ng	98
29) Diisopropyl Ether	11.32	87	2701	0.226	ng	# 92
30) Ethyl Acetate	11.32	61	2611	0.472	ng	84
31) n-Hexane	11.29	57	3029	0.127	ng	98
32) Chloroform	11.34	83	2867	0.126	ng	94
34) Tetrahydrofuran (THF)	11.79	72	1669	0.222	ng	# 85
35) Ethyl tert-Butyl Ether	11.92	87	3340	0.214	ng	92
36) 1,2-Dichloroethane	12.15	62	2449	0.129	ng	94
38) 1,1,1-Trichloroethane	12.44	97	2446	0.112	ng	96
39) Isopropyl Acetate	13.31	61	22009	No Calib		
40) 1-Butanol	12.95	56	1968	No Calib	#	
41) Benzene	12.92	78	6420	0.126	ng	99
42) Carbon Tetrachloride	13.07	117	2198	0.106	ng	94
43) Cyclohexane	13.21	84	4455	0.216	ng	98
44) tert-Amyl Methyl Ether	13.58	73	7907	0.220	ng	97
45) 1,2-Dichloropropane	13.77	63	1641	0.125	ng	93
46) Bromodichloromethane	13.96	83	2095	0.114	ng	100
47) Trichloroethene	14.01	130	1822	0.119	ng	89
48) 1,4-Dioxane	14.00	88	11410	1.096	ng	94
49) 2,2,4-Trimethylpentane...	14.08	57	8321	0.146	ng	97
50) Methyl Methacrylate	14.24	100	989	0.191	ng	99

Data File : I:\MS09\DATA\2022 04\07\04072212.D
 Acq On : 7 Apr 2022 12:10
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S35-03082201/S35-04052208 (5/5)

Vial: 5
 Operator: SC
 Inst : MS09

Quant Time: Apr 07 15:34:23 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 15:24:56 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

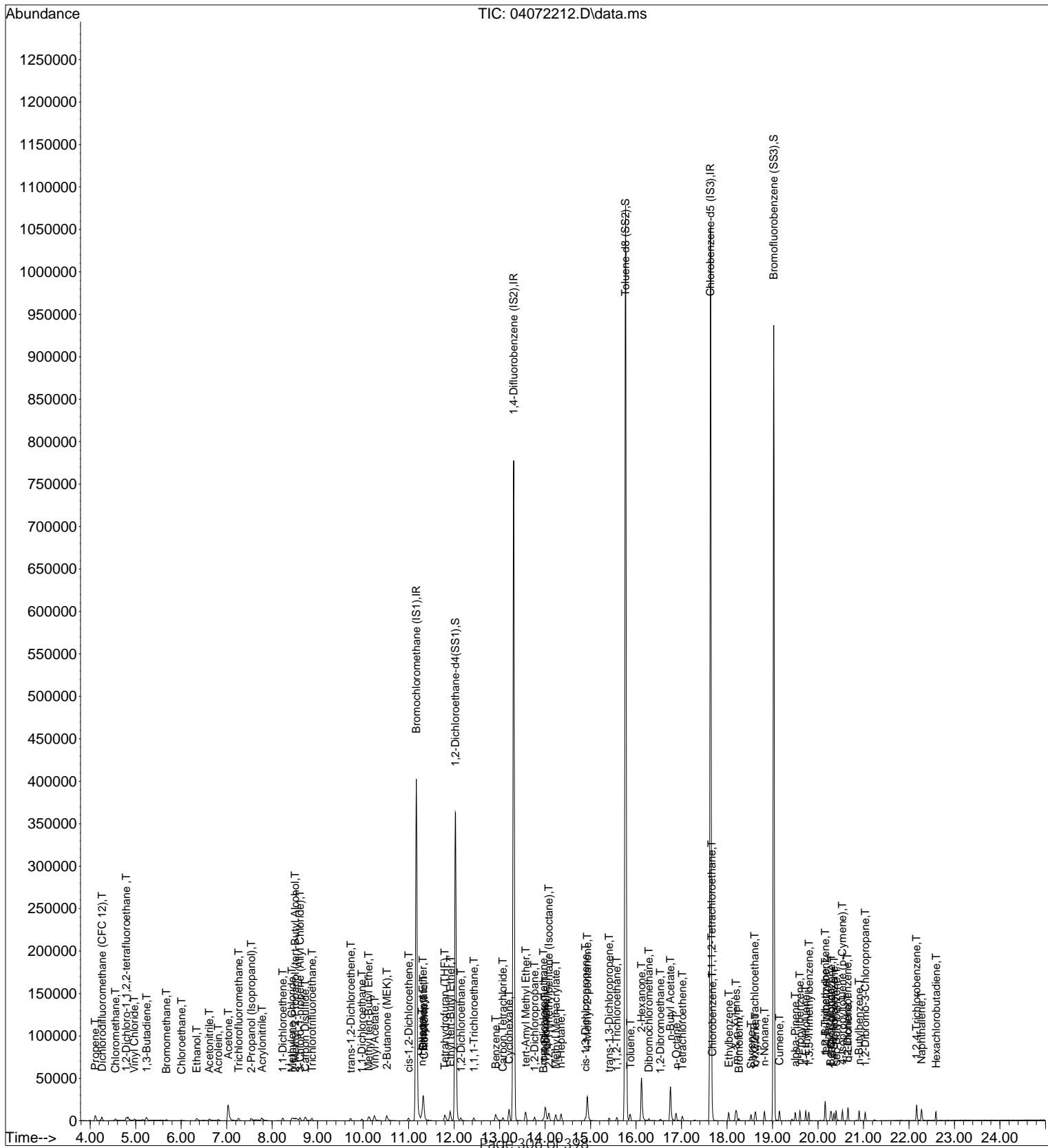
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.35	71	1433	0.111	ng	90
52) cis-1,3-Dichloropropene	14.89	75	2032	0.099	ng	97
53) 4-Methyl-2-pentanone	14.93	58	8743	0.698	ng	94
54) trans-1,3-Dichloropropene	15.41	75	1789	0.093	ng	98
55) 1,1,2-Trichloroethane	15.58	97	1476	0.115	ng	95
58) Toluene	15.88	91	6808	0.100	ng	98
59) 2-Hexanone	16.12	43	48941	1.130	ng	97
60) Dibromochloromethane	16.28	129	1695	0.085	ng	96
61) 1,2-Dibromoethane	16.53	107	1568	0.087	ng	92
62) n-Butyl Acetate	16.76	43	39756	0.835	ng	99
63) n-Octane	16.89	57	1593	0.114	ng	96
64) Tetrachloroethene	17.02	166	1870	0.088	ng	99
65) Chlorobenzene	17.68	112	4672	0.094	ng	95
66) Ethylbenzene	18.04	91	7352	0.095	ng	99
67) m- & p-Xylenes	18.20	91	11705	0.188	ng	99
68) Bromoform	18.26	173	1466	0.085	ng	90
69) Styrene	18.53	104	3942	0.084	ng	96
70) o-Xylene	18.62	91	6056	0.099	ng	100
71) n-Nonane	18.82	43	4495	0.118	ng	95
72) 1,1,2,2-Tetrachloroethane	18.61	83	2708	0.097	ng	96
74) Cumene	19.15	105	7621	0.094	ng	99
75) alpha-Pinene	19.50	93	3511	0.091	ng	74
76) n-Propylbenzene	19.60	91	9313	0.097	ng	99
77) 3-Ethyltoluene	19.73	105	7094	No Calib		
78) 4-Ethyltoluene	19.73	105	7094	0.090	ng	98
79) 1,3,5-Trimethylbenzene	19.80	105	6011	0.091	ng	100
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.54	105	220	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.16	105	6032	0.086	ng	98
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	20.28	91	6381	0.113	ng	96
85) 1,3-Dichlorobenzene	20.29	146	3510	0.082	ng	96
86) 1,4-Dichlorobenzene	20.36	146	3777	0.088	ng	100
87) sec-Butylbenzene	20.40	105	8204	0.091	ng	96
88) 4-Isopropyltoluene (p-...	20.54	119	6496	0.082	ng	95
89) 1,2,3-Trimethylbenzene	20.40	105	8204	No Calib	#	
90) 1,2-Dichlorobenzene	20.65	146	3608	0.087	ng	99
91) d-Limonene	20.66	68	1847	0.077	ng	97
92) 1,2-Dibromo-3-Chloropr...	21.04	157	2259	0.148	ng	# 82
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	22.17	180	6351	0.179	ng	97
95) Naphthalene	22.28	128	12997	0.142	ng	94
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	22.60	225	2097	0.098	ng	97
98) Cyclohexanone	18.82	55	748	No Calib	#	
99) tert-Butylbenzene	20.16	119	6218	0.090	ng	100
100) n-Butylbenzene	20.90	91	6796	0.093	ng	97
101) 1,1,1,2-Tetrachloroethane	17.66	131	1680	0.095	ng	89

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

Data File : I:\MS09\DATA\2022 04\07\04072212.D
 Acq On : 7 Apr 2022 12:10
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S35-03082201/S35-04052208 (5/5)

Vial: 5
 Operator: SC
 Inst : MS09

Quant Time: Apr 07 15:34:23 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 15:24:56 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2022 04\07\04072213.D
 Acq On : 7 Apr 2022 12:44
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S35-03082201/S35-04052208 (5/5)

Vial: 5
 Operator: SC
 Inst : MS09

Quant Time: Apr 07 15:33:06 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 15:24:56 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

4/7/22

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	11.17	130	150274	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.31	114	646674	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	17.64	54	163616	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.03	65	287568	14.151	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	113.20%	
57) Toluene-d8 (SS2)	15.77	98	756729	10.475	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	83.84%	
73) Bromofluorobenzene (SS3)	19.03	174	263447	10.284	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	82.24%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.09	42	4208	0.259	ng	92
3) Dichlorodifluoromethan...	4.25	85	5967	0.212	ng	97
4) Chloromethane	4.54	50	5127	0.260	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	4.79	135	2830	0.195	ng	99
6) Vinyl Chloride	4.96	62	4063	0.230	ng	88
7) 1,3-Butadiene	5.22	54	3407	0.230	ng	97
8) Bromomethane	5.66	94	1925	0.180	ng	96
9) Chloroethane	5.98	64	1678	0.200	ng	94
10) Ethanol	6.33	45	12149	1.149	ng	73
11) Acetonitrile	6.60	41	7614	0.261	ng	# 67
12) Acrolein	6.80	56	3545	0.483	ng	95
13) Acetone	7.02	58	13502	1.349	ng	98
14) Trichlorofluoromethane	7.26	101	5685	0.221	ng	96
15) 2-Propanol (Isopropanol)	7.51	45	20163	0.550	ng	92
16) Acrylonitrile	7.76	53	8425	0.513	ng	97
17) 1,1-Dichloroethene	8.23	96	2442	0.218	ng	99
18) 2-Methyl-2-Propanol (t...	8.47	59	16706	0.622	ng	# 55
19) Methylene Chloride	8.43	84	2582	0.201	ng	97
20) 3-Chloro-1-propene (Al...	8.61	41	5728	0.262	ng	87
21) Trichlorotrifluoroethane	8.87	151	2536	0.208	ng	99
22) Carbon Disulfide	8.72	76	16375	0.377	ng	97
23) trans-1,2-Dichloroethene	9.72	61	4070	0.237	ng	93
24) 1,1-Dichloroethane	9.97	63	5108	0.225	ng	97
25) Methyl tert-Butyl Ether	10.11	73	7700	0.244	ng	97
26) Vinyl Acetate	10.24	86	1147	0.490	ng	# 59
27) 2-Butanone (MEK)	10.51	72	3446	0.432	ng	# 77
28) cis-1,2-Dichloroethene	10.99	61	3992	0.226	ng	97
29) Diisopropyl Ether	11.31	87	4772	0.402	ng	# 92
30) Ethyl Acetate	11.32	61	4507	0.819	ng	98
31) n-Hexane	11.29	57	5367	0.226	ng	98
32) Chloroform	11.33	83	5009	0.222	ng	98
34) Tetrahydrofuran (THF)	11.78	72	3144	0.422	ng	97
35) Ethyl tert-Butyl Ether	11.91	87	6240	0.403	ng	96
36) 1,2-Dichloroethane	12.15	62	4156	0.220	ng	98
38) 1,1,1-Trichloroethane	12.44	97	4691	0.217	ng	97
39) Isopropyl Acetate	13.31	61	21406	No Calib		
40) 1-Butanol	12.94	56	3434	No Calib	#	
41) Benzene	12.91	78	10570	0.210	ng	98
42) Carbon Tetrachloride	13.08	117	3655	0.179	ng	96
43) Cyclohexane	13.21	84	7781	0.381	ng	97
44) tert-Amyl Methyl Ether	13.57	73	14448	0.406	ng	97
45) 1,2-Dichloropropane	13.77	63	2901	0.223	ng	95
46) Bromodichloromethane	13.96	83	3499	0.192	ng	98
47) Trichloroethene	14.01	130	2811	0.186	ng	97
48) 1,4-Dioxane	14.00	88	20807	2.021	ng	99
49) 2,2,4-Trimethylpentane...	14.08	57	14314	0.254	ng	98
50) Methyl Methacrylate	14.22	100	1848	0.361	ng	89

Data File : I:\MS09\DATA\2022 04\07\04072213.D
 Acq On : 7 Apr 2022 12:44
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S35-03082201/S35-04052208 (5/5)

Vial: 5
 Operator: SC
 Inst : MS09

Quant Time: Apr 07 15:33:06 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 15:24:56 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

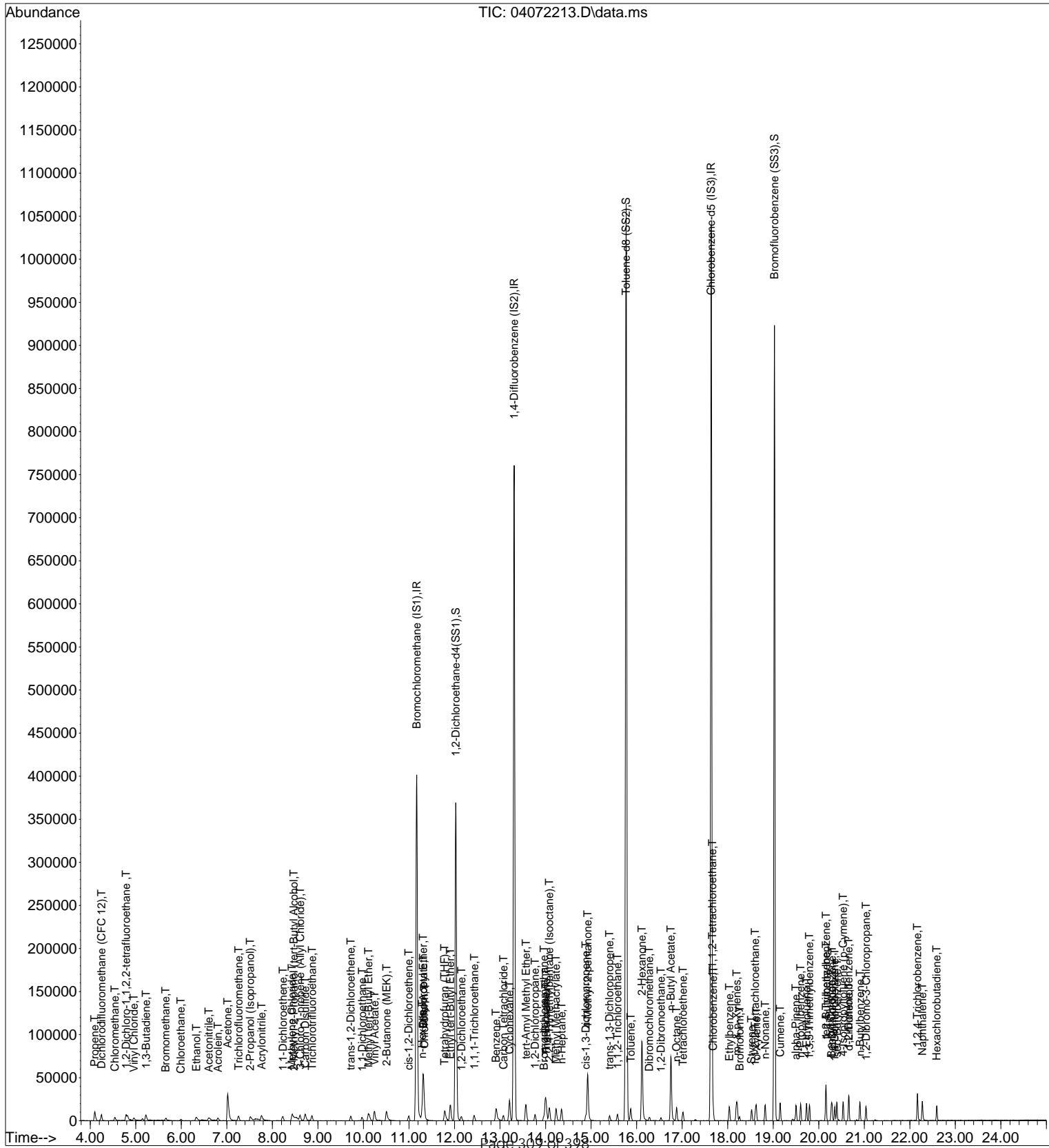
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.35	71	2626	0.205	ng	92
52) cis-1,3-Dichloropropene	14.88	75	3849	0.189	ng	99
53) 4-Methyl-2-pentanone	14.92	58	15615	1.262	ng	94
54) trans-1,3-Dichloropropene	15.40	75	3493	0.184	ng	96
55) 1,1,2-Trichloroethane	15.58	97	2767	0.219	ng	96
58) Toluene	15.87	91	11733	0.174	ng	95
59) 2-Hexanone	16.11	43	87721	2.035	ng	98
60) Dibromochloromethane	16.27	129	2820	0.142	ng	100
61) 1,2-Dibromoethane	16.53	107	3090	0.172	ng	98
62) n-Butyl Acetate	16.75	43	73198	1.544	ng	99
63) n-Octane	16.88	57	2782	0.200	ng	98
64) Tetrachloroethene	17.02	166	3126	0.148	ng	98
65) Chlorobenzene	17.68	112	7975	0.161	ng	100
66) Ethylbenzene	18.03	91	12757	0.166	ng	99
67) m- & p-Xylenes	18.20	91	19962	0.322	ng	98
68) Bromoform	18.26	173	2360	0.137	ng	98
69) Styrene	18.52	104	6756	0.145	ng	97
70) o-Xylene	18.63	91	10190	0.167	ng	99
71) n-Nonane	18.82	43	7655	0.201	ng	97
72) 1,1,2,2-Tetrachloroethane	18.60	83	4646	0.167	ng	96
74) Cumene	19.15	105	13309	0.164	ng	98
75) alpha-Pinene	19.50	93	6279	0.164	ng	81
76) n-Propylbenzene	19.60	91	15582	0.162	ng	99
77) 3-Ethyltoluene	19.73	105	12926	No Calib		
78) 4-Ethyltoluene	19.73	105	12926	0.165	ng	98
79) 1,3,5-Trimethylbenzene	19.79	105	10624	0.161	ng	100
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.66	105	160	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.16	105	10468	0.149	ng	98
83) n-Decane	20.53	58	124	No Calib	#	
84) Benzyl Chloride	20.28	91	10871	0.194	ng	99
85) 1,3-Dichlorobenzene	20.29	146	6452	0.151	ng	98
86) 1,4-Dichlorobenzene	20.35	146	6452	0.151	ng	95
87) sec-Butylbenzene	20.40	105	14374	0.159	ng	99
88) 4-Isopropyltoluene (p-...	20.54	119	12087	0.154	ng	98
89) 1,2,3-Trimethylbenzene	20.40	105	14374	No Calib	#	
90) 1,2-Dichlorobenzene	20.66	146	6439	0.156	ng	98
91) d-Limonene	20.66	68	3470	0.145	ng	100
92) 1,2-Dibromo-3-Chloropr...	21.04	157	4268	0.281	ng	93
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	22.17	180	10008	0.283	ng	99
95) Naphthalene	22.28	128	18749	0.206	ng	98
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	22.59	225	3429	0.160	ng	98
98) Cyclohexanone	18.83	55	1218	No Calib	#	
99) tert-Butylbenzene	20.16	119	10678	0.155	ng	99
100) n-Butylbenzene	20.91	91	12105	0.166	ng	96
101) 1,1,1,2-Tetrachloroethane	17.66	131	2637	0.149	ng	91

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

Data File : I:\MS09\DATA\2022 04\07\04072213.D
Acq On : 7 Apr 2022 12:44
Sample : 0.2ng TO-15 ICAL STD
Misc : S35-03082201/S35-04052208 (5/5)

Vial: 5
Operator: SC
Inst : MS09

Quant Time: Apr 07 15:33:06 2022
Quant Method : I:\MS09\Methods\R9040722.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Apr 07 15:24:56 2022
Response via : Initial Calibration
DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2022 04\07\04072214.D
 Acq On : 7 Apr 2022 13:17
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S35-03082201/S35-04052202 (5/5)

Vial: 6
 Operator: SC
 Inst : MS09

Quant Time: Apr 07 15:31:44 2022

4/7/22

Quant Method : I:\MS09\Methods\R9040722.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Thu Apr 07 15:24:56 2022

Response via : Initial Calibration

DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.17	130	145966	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.31	114	629675	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	17.64	54	159312	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.03	65	279498	14.160	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	113.28%	
57) Toluene-d8 (SS2)	15.77	98	736378	10.469	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	83.76%	
73) Bromofluorobenzene (SS3)	19.03	174	252960	10.141	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	81.12%	

Target Compounds

						Qvalue
2) Propene	4.09	42	10601	0.672	ng	96
3) Dichlorodifluoromethan...	4.24	85	15719	0.576	ng	100
4) Chloromethane	4.53	50	13162	0.687	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	4.78	135	7387	0.523	ng	99
6) Vinyl Chloride	4.95	62	10482	0.611	ng	98
7) 1,3-Butadiene	5.21	54	9159	0.636	ng	96
8) Bromomethane	5.65	94	5303	0.512	ng	94
9) Chloroethane	5.98	64	4665	0.573	ng	97
10) Ethanol	6.31	45	26270	2.558	ng	100
11) Acetonitrile	6.59	41	18530	0.654	ng	89
12) Acrolein	6.79	56	9056	1.271	ng	99
13) Acetone	7.00	58	29438	3.027	ng	94
14) Trichlorofluoromethane	7.25	101	13930	0.557	ng	99
15) 2-Propanol (Isopropanol)	7.49	45	47038	1.321	ng	92
16) Acrylonitrile	7.76	53	20691	1.297	ng	99
17) 1,1-Dichloroethene	8.22	96	6797	0.623	ng	93
18) 2-Methyl-2-Propanol (t...	8.45	59	36496	1.399	ng	94
19) Methylene Chloride	8.43	84	6566	0.527	ng	98
20) 3-Chloro-1-propene (Al...	8.60	41	14566	0.687	ng	95
21) Trichlorotrifluoroethane	8.87	151	6409	0.540	ng	99
22) Carbon Disulfide	8.71	76	42695	1.013	ng	100
23) trans-1,2-Dichloroethene	9.72	61	10201	0.610	ng	99
24) 1,1-Dichloroethane	9.97	63	13006	0.589	ng	99
25) Methyl tert-Butyl Ether	10.10	73	19812	0.646	ng	100
26) Vinyl Acetate	10.24	86	3422	1.505	ng	# 81
27) 2-Butanone (MEK)	10.49	72	8458	1.092	ng	# 85
28) cis-1,2-Dichloroethene	10.99	61	10488	0.612	ng	99
29) Diisopropyl Ether	11.31	87	12430	1.077	ng	# 96
30) Ethyl Acetate	11.31	61	11574	2.166	ng	98
31) n-Hexane	11.29	57	13951	0.605	ng	99
32) Chloroform	11.34	83	12557	0.572	ng	99
34) Tetrahydrofuran (THF)	11.78	72	7710	1.065	ng	97
35) Ethyl tert-Butyl Ether	11.90	87	15705	1.045	ng	98
36) 1,2-Dichloroethane	12.15	62	11138	0.607	ng	100
38) 1,1,1-Trichloroethane	12.43	97	11716	0.556	ng	100
39) Isopropyl Acetate	13.31	61	21421	No Calib		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	12.91	78	26250	0.537	ng	99
42) Carbon Tetrachloride	13.07	117	10240	0.514	ng	97
43) Cyclohexane	13.21	84	20085	1.009	ng	98
44) tert-Amyl Methyl Ether	13.56	73	34805	1.005	ng	97
45) 1,2-Dichloropropane	13.77	63	7361	0.581	ng	100
46) Bromodichloromethane	13.96	83	9426	0.532	ng	100
47) Trichloroethene	14.01	130	7362	0.500	ng	99
48) 1,4-Dioxane	14.00	88	4958	0.495	ng	95
49) 2,2,4-Trimethylpentane...	14.08	57	35499	0.647	ng	99
50) Methyl Methacrylate	14.22	100	5081	1.020	ng	99

Data File : I:\MS09\DATA\2022 04\07\04072214.D
 Acq On : 7 Apr 2022 13:17
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S35-03082201/S35-04052202 (5/5)

Vial: 6
 Operator: SC
 Inst : MS09

Quant Time: Apr 07 15:31:44 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 15:24:56 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

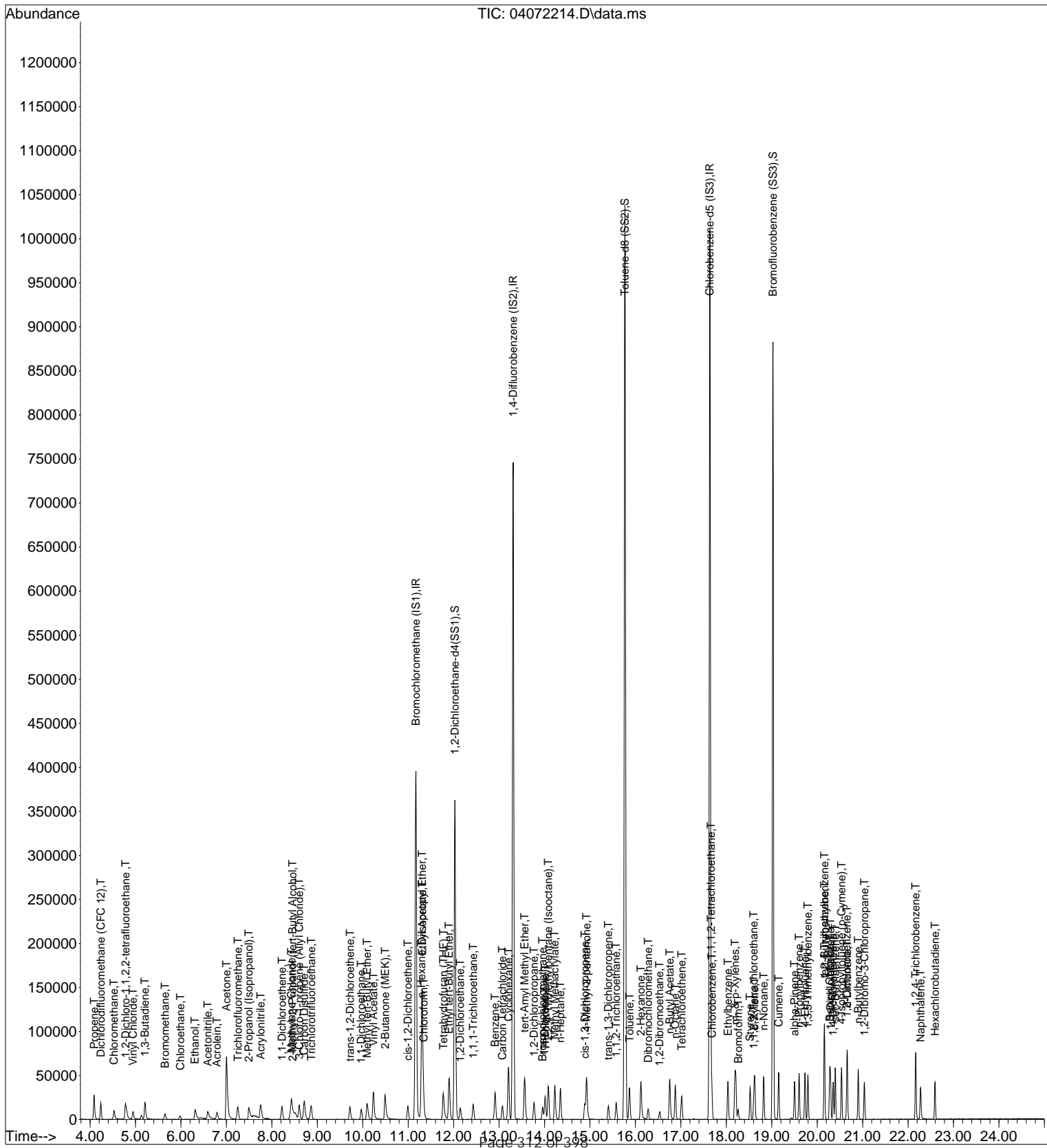
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.35	71	7043	0.566	ng	99
52) cis-1,3-Dichloropropene	14.89	75	9996	0.504	ng	95
53) 4-Methyl-2-pentanone	14.92	58	13838	1.148	ng	96
54) trans-1,3-Dichloropropene	15.41	75	8874	0.481	ng	98
55) 1,1,2-Trichloroethane	15.58	97	6544	0.531	ng	96
58) Toluene	15.87	91	29302	0.445	ng	98
59) 2-Hexanone	16.12	43	42875	1.022	ng	95
60) Dibromochloromethane	16.28	129	7826	0.405	ng	100
61) 1,2-Dibromoethane	16.53	107	7775	0.445	ng	98
62) n-Butyl Acetate	16.76	43	45183	0.979	ng	99
63) n-Octane	16.88	57	7526	0.555	ng	98
64) Tetrachloroethene	17.02	166	8444	0.411	ng	97
65) Chlorobenzene	17.68	112	19255	0.400	ng	96
66) Ethylbenzene	18.03	91	32230	0.431	ng	99
67) m- & p-Xylenes	18.19	91	53347	0.885	ng	99
68) Bromoform	18.26	173	6236	0.373	ng	100
69) Styrene	18.52	104	17345	0.382	ng	98
70) o-Xylene	18.62	91	26846	0.453	ng	99
71) n-Nonane	18.82	43	20125	0.543	ng	98
72) 1,1,2,2-Tetrachloroethane	18.60	83	11541	0.427	ng	97
74) Cumene	19.15	105	33798	0.429	ng	100
75) alpha-Pinene	19.50	93	15338	0.411	ng	97
76) n-Propylbenzene	19.60	91	40308	0.432	ng	100
77) 3-Ethyltoluene	19.73	105	32653	No Calib		
78) 4-Ethyltoluene	19.73	105	32653	0.429	ng	100
79) 1,3,5-Trimethylbenzene	19.79	105	27079	0.421	ng	100
80) alpha-Methylstyrene	19.73	118	316	No Calib	#	
81) 2-Ethyltoluene	20.66	105	622	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.16	105	27609	0.404	ng	97
83) n-Decane	20.53	58	558	No Calib	#	
84) Benzyl Chloride	20.28	91	32335	0.593	ng	100
85) 1,3-Dichlorobenzene	20.29	146	16293	0.392	ng	99
86) 1,4-Dichlorobenzene	20.35	146	16352	0.393	ng	100
87) sec-Butylbenzene	20.40	105	37159	0.423	ng	100
88) 4-Isopropyltoluene (p-...	20.54	119	31691	0.414	ng	99
89) 1,2,3-Trimethylbenzene	20.40	105	37159	No Calib		
90) 1,2-Dichlorobenzene	20.65	146	15711	0.392	ng	99
91) d-Limonene	20.66	68	9737	0.419	ng	100
92) 1,2-Dibromo-3-Chloropr...	21.04	157	10621	0.718	ng	94
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	22.17	180	23532	0.685	ng	98
95) Naphthalene	22.28	128	32461	0.366	ng	98
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	22.59	225	8119	0.390	ng	99
98) Cyclohexanone	18.82	55	3202	No Calib	#	
99) tert-Butylbenzene	20.16	119	27758	0.413	ng	99
100) n-Butylbenzene	20.90	91	29747	0.418	ng	98
101) 1,1,1,2-Tetrachloroethane	17.66	131	7006	0.408	ng	99

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

Data File : I:\MS09\DATA\2022 04\07\04072214.D
 Acq On : 7 Apr 2022 13:17
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S35-03082201/S35-04052202 (5/5)

Vial: 6
 Operator: SC
 Inst : MS09

Quant Time: Apr 07 15:31:44 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 15:24:56 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2022 04\07\04072215.D
 Acq On : 7 Apr 2022 13:50
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S35-03082201/S35-04052202 (5/5)

Vial: 6
 Operator: SC
 Inst : MS09

Quant Time: Apr 07 15:30:18 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 15:24:56 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

4/7/22

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	11.17	130	145725	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.31	114	632939	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	17.64	54	160844	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.03	65	281365	14.278	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	114.24%	
57) Toluene-d8 (SS2)	15.77	98	743662	10.472	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	83.76%	
73) Bromofluorobenzene (SS3)	19.03	174	259100	10.288	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	82.32%	

Target Compounds

						Qvalue
2) Propene	4.08	42	20131	1.278	ng	97
3) Dichlorodifluoromethan...	4.23	85	29432	1.080	ng	99
4) Chloromethane	4.52	50	24868	1.300	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	4.78	135	13456	0.954	ng	99
6) Vinyl Chloride	4.94	62	19873	1.160	ng	100
7) 1,3-Butadiene	5.20	54	17280	1.203	ng	96
8) Bromomethane	5.65	94	10083	0.975	ng	99
9) Chloroethane	5.97	64	9257	1.139	ng	97
10) Ethanol	6.31	45	50358	4.912	ng	99
11) Acetonitrile	6.59	41	34510	1.220	ng	91
12) Acrolein	6.79	56	17575	2.471	ng	100
13) Acetone	7.00	58	55452	5.712	ng	94
14) Trichlorofluoromethane	7.25	101	26492	1.061	ng	98
15) 2-Propanol (Isopropanol)	7.48	45	91384	2.571	ng	93
16) Acrylonitrile	7.75	53	40616	2.550	ng	98
17) 1,1-Dichloroethene	8.22	96	12542	1.152	ng	99
18) 2-Methyl-2-Propanol (t...	8.46	59	69842	2.682	ng	97
19) Methylene Chloride	8.43	84	12568	1.011	ng	99
20) 3-Chloro-1-propene (Al...	8.60	41	27650	1.306	ng	98
21) Trichlorotrifluoroethane	8.86	151	12003	1.014	ng	98
22) Carbon Disulfide	8.71	76	82765	1.967	ng	99
23) trans-1,2-Dichloroethene	9.72	61	20212	1.212	ng	99
24) 1,1-Dichloroethane	9.97	63	25198	1.143	ng	99
25) Methyl tert-Butyl Ether	10.09	73	37599	1.229	ng	99
26) Vinyl Acetate	10.24	86	6802	2.997	ng	# 78
27) 2-Butanone (MEK)	10.49	72	16137	2.087	ng	# 88
28) cis-1,2-Dichloroethene	10.99	61	19718	1.153	ng	100
29) Diisopropyl Ether	11.30	87	24211	2.102	ng	# 93
30) Ethyl Acetate	11.31	61	22505	4.219	ng	100
31) n-Hexane	11.29	57	26743	1.163	ng	99
32) Chloroform	11.34	83	24321	1.109	ng	98
34) Tetrahydrofuran (THF)	11.77	72	14947	2.067	ng	97
35) Ethyl tert-Butyl Ether	11.90	87	30515	2.034	ng	97
36) 1,2-Dichloroethane	12.15	62	21546	1.176	ng	99
38) 1,1,1-Trichloroethane	12.43	97	22301	1.052	ng	99
39) Isopropyl Acetate	13.31	61	21402	No Calib		
40) 1-Butanol	12.96	56	114	No Calib	#	
41) Benzene	12.91	78	49211	1.001	ng	99
42) Carbon Tetrachloride	13.08	117	19368	0.967	ng	99
43) Cyclohexane	13.21	84	38416	1.920	ng	98
44) tert-Amyl Methyl Ether	13.56	73	67079	1.927	ng	98
45) 1,2-Dichloropropane	13.78	63	14167	1.113	ng	98
46) Bromodichloromethane	13.96	83	17796	0.999	ng	100
47) Trichloroethene	14.02	130	14298	0.966	ng	99
48) 1,4-Dioxane	14.00	88	10221	1.014	ng	96
49) 2,2,4-Trimethylpentane...	14.08	57	66962	1.214	ng	100
50) Methyl Methacrylate	14.23	100	10036	2.004	ng	99

Data File : I:\MS09\DATA\2022 04\07\04072215.D
 Acq On : 7 Apr 2022 13:50
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S35-03082201/S35-04052202 (5/5)

Vial: 6
 Operator: SC
 Inst : MS09

Quant Time: Apr 07 15:30:18 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 15:24:56 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

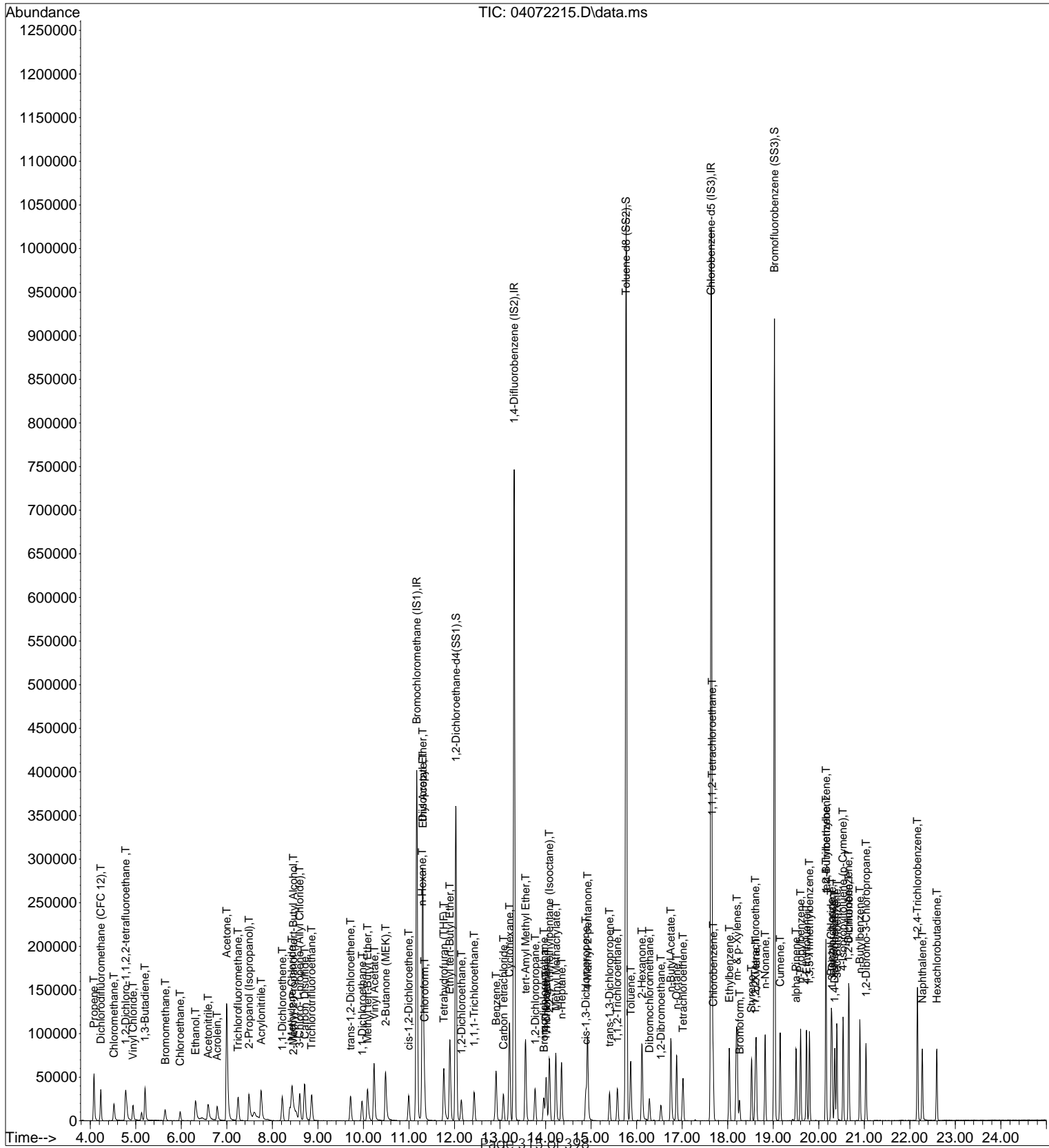
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.35	71	13439	1.074	ng	99
52) cis-1,3-Dichloropropene	14.88	75	19665	0.987	ng	99
53) 4-Methyl-2-pentanone	14.92	58	26838	2.216	ng	95
54) trans-1,3-Dichloropropene	15.40	75	17932	0.967	ng	100
55) 1,1,2-Trichloroethane	15.58	97	13027	1.052	ng	99
58) Toluene	15.87	91	55395	0.834	ng	99
59) 2-Hexanone	16.11	43	83481	1.970	ng	98
60) Dibromochloromethane	16.28	129	15375	0.789	ng	100
61) 1,2-Dibromoethane	16.53	107	14764	0.837	ng	100
62) n-Butyl Acetate	16.75	43	88948	1.908	ng	100
63) n-Octane	16.88	57	13893	1.015	ng	99
64) Tetrachloroethene	17.02	166	16034	0.774	ng	98
65) Chlorobenzene	17.68	112	37923	0.780	ng	100
66) Ethylbenzene	18.03	91	62785	0.832	ng	100
67) m- & p-Xylenes	18.20	91	101299	1.664	ng	100
68) Bromoform	18.26	173	12384	0.734	ng	99
69) Styrene	18.52	104	35021	0.764	ng	99
70) o-Xylene	18.62	91	50550	0.844	ng	99
71) n-Nonane	18.82	43	39056	1.044	ng	99
72) 1,1,2,2-Tetrachloroethane	18.61	83	22051	0.808	ng	99
74) Cumene	19.15	105	65831	0.827	ng	99
75) alpha-Pinene	19.50	93	30875	0.820	ng	98
76) n-Propylbenzene	19.60	91	78750	0.835	ng	99
77) 3-Ethyltoluene	19.73	105	64230	No Calib		
78) 4-Ethyltoluene	19.73	105	64230	0.836	ng	100
79) 1,3,5-Trimethylbenzene	19.79	105	53023	0.817	ng	100
80) alpha-Methylstyrene	19.60	118	179	No Calib	#	
81) 2-Ethyltoluene	20.66	105	1347	No Calib		
82) 1,2,4-Trimethylbenzene	20.16	105	53269	0.772	ng	96
83) n-Decane	20.53	58	980	No Calib	#	
84) Benzyl Chloride	20.27	91	69975	1.271	ng	100
85) 1,3-Dichlorobenzene	20.29	146	31573	0.752	ng	100
86) 1,4-Dichlorobenzene	20.35	146	31956	0.761	ng	100
87) sec-Butylbenzene	20.40	105	72115	0.813	ng	99
88) 4-Isopropyltoluene (p-...	20.53	119	62865	0.813	ng	99
89) 1,2,3-Trimethylbenzene	20.40	105	72115	No Calib		
90) 1,2-Dichlorobenzene	20.65	146	30753	0.760	ng	100
91) d-Limonene	20.66	68	19631	0.837	ng	99
92) 1,2-Dibromo-3-Chloropr...	21.04	157	21331	1.428	ng	96
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	22.17	180	46876	1.351	ng	99
95) Naphthalene	22.28	128	66791	0.746	ng	98
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	22.59	225	15668	0.745	ng	100
98) Cyclohexanone	18.82	55	5831	No Calib	#	
99) tert-Butylbenzene	20.16	119	52978	0.781	ng	99
100) n-Butylbenzene	20.90	91	59025	0.822	ng	98
101) 1,1,1,2-Tetrachloroethane	17.66	131	13463	0.776	ng	99

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

Data File : I:\MS09\DATA\2022 04\07\04072215.D
 Acq On : 7 Apr 2022 13:50
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S35-03082201/S35-04052202 (5/5)

Vial: 6
 Operator: SC
 Inst : MS09

Quant Time: Apr 07 15:30:18 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 15:24:56 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2022 04\07\04072216.D
 Acq On : 7 Apr 2022 14:24
 Sample : 5.0ng TO-15 ICAL STD
 Misc : S35-03082201/S35-04052202 (5/5)

Vial: 6
 Operator: SC
 Inst : MS09

Quant Time: Apr 07 15:29:00 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 15:24:56 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

4/7/22

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.17	130	146607	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.31	114	638311	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	17.64	54	161409	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.03	65	283791	14.314	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	114.48%	
57) Toluene-d8 (SS2)	15.77	98	749637	10.519	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	84.16%	
73) Bromofluorobenzene (SS3)	19.03	174	267853	10.599	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	84.80%	

Target Compounds

						Qvalue
2) Propene	4.06	42	99681	6.288	ng	99
3) Dichlorodifluoromethan...	4.22	85	133861	4.883	ng	100
4) Chloromethane	4.50	50	98981	5.144	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	4.76	135	61917	4.364	ng	99
6) Vinyl Chloride	4.92	62	93345	5.417	ng	100
7) 1,3-Butadiene	5.19	54	84065	5.816	ng	99
8) Bromomethane	5.63	94	46756	4.493	ng	100
9) Chloroethane	5.97	64	41751	5.108	ng	99
10) Ethanol	6.32	45	231952	22.491	ng	100
11) Acetonitrile	6.59	41	161296	5.667	ng	97
12) Acrolein	6.78	56	88228	12.329	ng	99
13) Acetone	6.99	58	261907	26.817	ng	97
14) Trichlorofluoromethane	7.24	101	120558	4.798	ng	99
15) 2-Propanol (Isopropanol)	7.48	45	406854	11.380	ng	98
16) Acrylonitrile	7.75	53	193782	12.092	ng	99
17) 1,1-Dichloroethene	8.22	96	57656	5.264	ng	99
18) 2-Methyl-2-Propanol (t...	8.38	59	241024	9.201	ng	96
19) Methylene Chloride	8.44	84	57259	4.579	ng	99
20) 3-Chloro-1-propene (Al...	8.60	41	127439	5.984	ng	100
21) Trichlorotrifluoroethane	8.86	151	54071	4.539	ng	97
22) Carbon Disulfide	8.70	76	403493	9.532	ng	100
23) trans-1,2-Dichloroethene	9.72	61	96881	5.772	ng	99
24) 1,1-Dichloroethane	9.98	63	114055	5.141	ng	99
25) Methyl tert-Butyl Ether	10.08	73	149481	4.856	ng	99
26) Vinyl Acetate	10.23	86	36420	15.949	ng	# 95
27) 2-Butanone (MEK)	10.48	72	80443	10.341	ng	97
28) cis-1,2-Dichloroethene	11.00	61	93333	5.425	ng	99
29) Diisopropyl Ether	11.30	87	113691	9.810	ng	# 96
30) Ethyl Acetate	11.31	61	109473	20.398	ng	99
31) n-Hexane	11.29	57	125054	5.404	ng	99
32) Chloroform	11.34	83	111572	5.057	ng	100
34) Tetrahydrofuran (THF)	11.75	72	71973	9.894	ng	100
35) Ethyl tert-Butyl Ether	11.90	87	145857	9.662	ng	97
36) 1,2-Dichloroethane	12.15	62	99110	5.377	ng	100
38) 1,1,1-Trichloroethane	12.44	97	103719	4.852	ng	100
39) Isopropyl Acetate	13.32	61	21767	No Calib		
40) 1-Butanol	12.92	56	3775	No Calib	#	
41) Benzene	12.91	78	230982	4.660	ng	99
42) Carbon Tetrachloride	13.08	117	92509	4.578	ng	100
43) Cyclohexane	13.21	84	179354	8.890	ng	97
44) tert-Amyl Methyl Ether	13.55	73	326840	9.311	ng	99
45) 1,2-Dichloropropane	13.77	63	63660	4.958	ng	99
46) Bromodichloromethane	13.96	83	87634	4.878	ng	99
47) Trichloroethene	14.01	130	65774	4.409	ng	100
48) 1,4-Dioxane	13.99	88	48084	4.732	ng	98
49) 2,2,4-Trimethylpentane...	14.09	57	311221	5.593	ng	100
50) Methyl Methacrylate	14.22	100	49620	9.823	ng	99

Data File : I:\MS09\DATA\2022 04\07\04072216.D
 Acq On : 7 Apr 2022 14:24
 Sample : 5.0ng TO-15 ICAL STD
 Misc : S35-03082201/S35-04052202 (5/5)

Vial: 6
 Operator: SC
 Inst : MS09

Quant Time: Apr 07 15:29:00 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 15:24:56 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

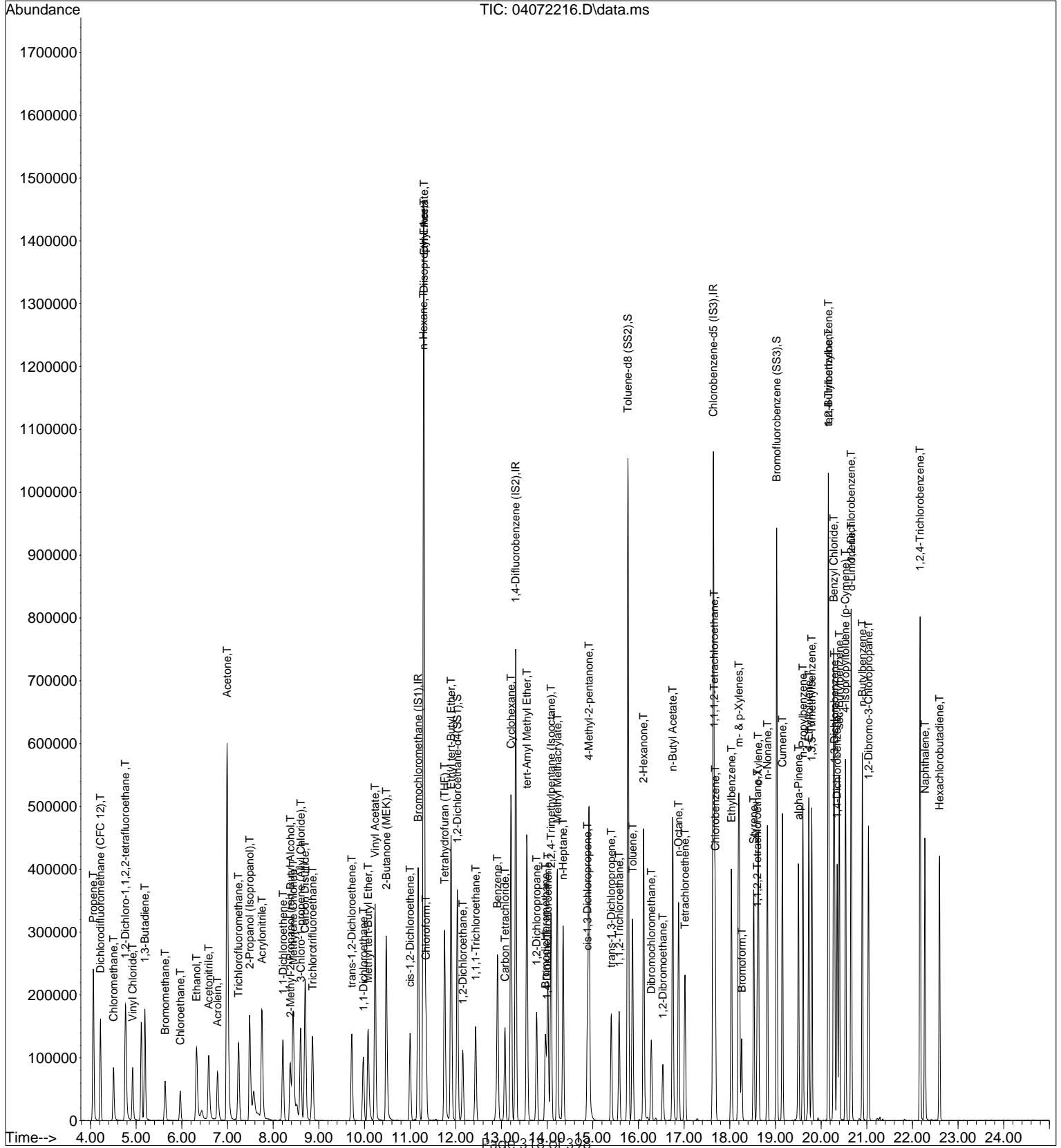
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.35	71	62663	4.967	ng	100
52) cis-1,3-Dichloropropene	14.88	75	98638	4.907	ng	100
53) 4-Methyl-2-pentanone	14.92	58	131768	10.786	ng	97
54) trans-1,3-Dichloropropene	15.40	75	93594	5.003	ng	99
55) 1,1,2-Trichloroethane	15.58	97	60437	4.841	ng	99
58) Toluene	15.87	91	254767	3.823	ng	100
59) 2-Hexanone	16.11	43	406025	9.549	ng	99
60) Dibromochloromethane	16.28	129	77413	3.958	ng	99
61) 1,2-Dibromoethane	16.53	107	71235	4.024	ng	100
62) n-Butyl Acetate	16.75	43	442239	9.455	ng	99
63) n-Octane	16.88	57	65016	4.732	ng	99
64) Tetrachloroethene	17.02	166	75616	3.637	ng	100
65) Chlorobenzene	17.68	112	173091	3.546	ng	100
66) Ethylbenzene	18.03	91	296772	3.917	ng	100
67) m- & p-Xylenes	18.20	91	471394	7.718	ng	99
68) Bromoform	18.26	173	66830	3.947	ng	99
69) Styrene	18.52	104	177831	3.864	ng	99
70) o-Xylene	18.62	91	242832	4.042	ng	100
71) n-Nonane	18.82	43	184825	4.923	ng	100
72) 1,1,2,2-Tetrachloroethane	18.60	83	106731	3.899	ng	100
74) Cumene	19.15	105	309734	3.878	ng	100
75) alpha-Pinene	19.50	93	149461	3.956	ng	99
76) n-Propylbenzene	19.60	91	378014	3.995	ng	99
77) 3-Ethyltoluene	19.73	105	312782	No Calib		
78) 4-Ethyltoluene	19.73	105	312782	4.054	ng	100
79) 1,3,5-Trimethylbenzene	19.79	105	257442	3.951	ng	98
80) alpha-Methylstyrene	19.60	118	765	No Calib	#	
81) 2-Ethyltoluene	20.66	105	6901	No Calib		
82) 1,2,4-Trimethylbenzene	20.16	105	268571	3.881	ng	98
83) n-Decane	20.53	58	1435	No Calib	#	
84) Benzyl Chloride	20.28	91	422719	7.652	ng	99
85) 1,3-Dichlorobenzene	20.29	146	155545	3.692	ng	99
86) 1,4-Dichlorobenzene	20.35	146	155636	3.692	ng	100
87) sec-Butylbenzene	20.40	105	353136	3.968	ng	100
88) 4-Isopropyltoluene (p-...	20.53	119	306463	3.950	ng	99
89) 1,2,3-Trimethylbenzene	20.40	105	353136	No Calib		
90) 1,2-Dichlorobenzene	20.66	146	150194	3.700	ng	99
91) d-Limonene	20.66	68	101896	4.327	ng	98
92) 1,2-Dibromo-3-Chloropr...	21.04	157	113933	7.600	ng	97
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	22.17	180	243483	6.991	ng	99
95) Naphthalene	22.28	128	355857	3.963	ng	99
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	22.59	225	78850	3.738	ng	100
98) Cyclohexanone	18.62	55	122	No Calib	#	
99) tert-Butylbenzene	20.16	119	258383	3.796	ng	99
100) n-Butylbenzene	20.90	91	293446	4.073	ng	99
101) 1,1,1,2-Tetrachloroethane	17.66	131	64825	3.725	ng	99

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

Data File : I:\MS09\DATA\2022 04\07\04072216.D
 Acq On : 7 Apr 2022 14:24
 Sample : 5.0ng TO-15 ICAL STD
 Misc : S35-03082201/S35-04052202 (5/5)

Vial: 6
 Operator: SC
 Inst : MS09

Quant Time: Apr 07 15:29:00 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 15:24:56 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2022 04\07\04072217.D
 Acq On : 7 Apr 2022 14:57
 Sample : 25ng TO-15 ICAL STD
 Misc : S35-03082201/S35-04052201 (5/5)

Vial: 7
 Operator: SC
 Inst : MS09

Quant Time: Apr 07 15:25:08 2022

Quant Method : I:\MS09\Methods\R9040722.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Thu Apr 07 15:24:56 2022

Response via : Initial Calibration

DataAcq Meth:TO15.M

4/7/22

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.19	130	156031	12.500	ng	0.00
37) 1,4-Difluorobenzene (IS2)	13.32	114	663728	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	17.64	54	172348	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.04	65	296365	14.046	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	112.40%	
57) Toluene-d8 (SS2)	15.77	98	782801	10.287	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	82.32%	
73) Bromofluorobenzene (SS3)	19.03	174	281370	10.427	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	83.44%	

Target Compounds

						Qvalue
2) Propene	4.05	42	531609	31.511	ng	100
3) Dichlorodifluoromethan...	4.21	85	743382	25.479	ng	100
4) Chloromethane	4.50	50	634252	30.972	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	4.76	135	345360	22.870	ng	100
6) Vinyl Chloride	4.93	62	527894	28.785	ng	100
7) 1,3-Butadiene	5.20	54	496747	32.294	ng	100
8) Bromomethane	5.64	94	270286	24.403	ng	100
9) Chloroethane	5.97	64	234550	26.965	ng	100
10) Ethanol	6.37	45	1311847	119.519	ng	100
11) Acetonitrile	6.62	41	884371	29.192	ng	100
12) Acrolein	6.80	56	499214	65.549	ng	100
13) Acetone	7.01	58	1508094	145.087	ng	100
14) Trichlorofluoromethane	7.25	101	681242	25.473	ng	100
15) 2-Propanol (Isopropanol)	7.52	45	2513699	66.061	ng	100
16) Acrylonitrile	7.78	53	1105521	64.820	ng	100
17) 1,1-Dichloroethene	8.22	96	330089	28.317	ng	100
18) 2-Methyl-2-Propanol (t...	8.40	59	1956004	70.161	ng	100
19) Methylene Chloride	8.45	84	330130	24.804	ng	100
20) 3-Chloro-1-propene (Al...	8.61	41	764386	33.724	ng	100
21) Trichlorotrifluoroethane	8.87	151	313280	24.710	ng	100
22) Carbon Disulfide	8.71	76	2386714	52.980	ng	100
23) trans-1,2-Dichloroethene	9.73	61	560410	31.373	ng	100
24) 1,1-Dichloroethane	9.99	63	649436	27.503	ng	100
25) Methyl tert-Butyl Ether	10.08	73	895538	27.338	ng	100
26) Vinyl Acetate	10.24	86	225516	92.793	ng	100
27) 2-Butanone (MEK)	10.48	72	471672	56.974	ng	100
28) cis-1,2-Dichloroethene	11.01	61	535138	29.224	ng	100
29) Diisopropyl Ether	11.31	87	681260	55.231	ng	100
30) Ethyl Acetate	11.31	61	689795	120.763	ng	100
31) n-Hexane	11.29	57	777263	31.557	ng	100
32) Chloroform	11.36	83	636618	27.113	ng	100
34) Tetrahydrofuran (THF)	11.75	72	416999	53.860	ng	100
35) Ethyl tert-Butyl Ether	11.90	87	875744	54.506	ng	100
36) 1,2-Dichloroethane	12.16	62	561796	28.636	ng	100
38) 1,1,1-Trichloroethane	12.44	97	603526	27.151	ng	100
39) Isopropyl Acetate	13.32	61	21908	No Calib		
40) 1-Butanol	12.90	56	19128	No Calib		
41) Benzene	12.92	78	1313463	25.484	ng	100
42) Carbon Tetrachloride	13.08	117	545983	25.987	ng	100
43) Cyclohexane	13.21	84	1040798	49.615	ng	100
44) tert-Amyl Methyl Ether	13.56	73	2030972	55.640	ng	100
45) 1,2-Dichloropropane	13.78	63	369436	27.671	ng	100
46) Bromodichloromethane	13.97	83	518477	27.755	ng	100
47) Trichloroethene	14.02	130	377623	24.342	ng	100
48) 1,4-Dioxane	13.99	88	282878	26.770	ng	100
49) 2,2,4-Trimethylpentane...	14.09	57	1777262	30.717	ng	100
50) Methyl Methacrylate	14.22	100	297789	56.695	ng	100

Data File : I:\MS09\DATA\2022 04\07\04072217.D
 Acq On : 7 Apr 2022 14:57
 Sample : 25ng TO-15 ICAL STD
 Misc : S35-03082201/S35-04052201 (5/5)

Vial: 7
 Operator: SC
 Inst : MS09

Quant Time: Apr 07 15:25:08 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 15:24:56 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

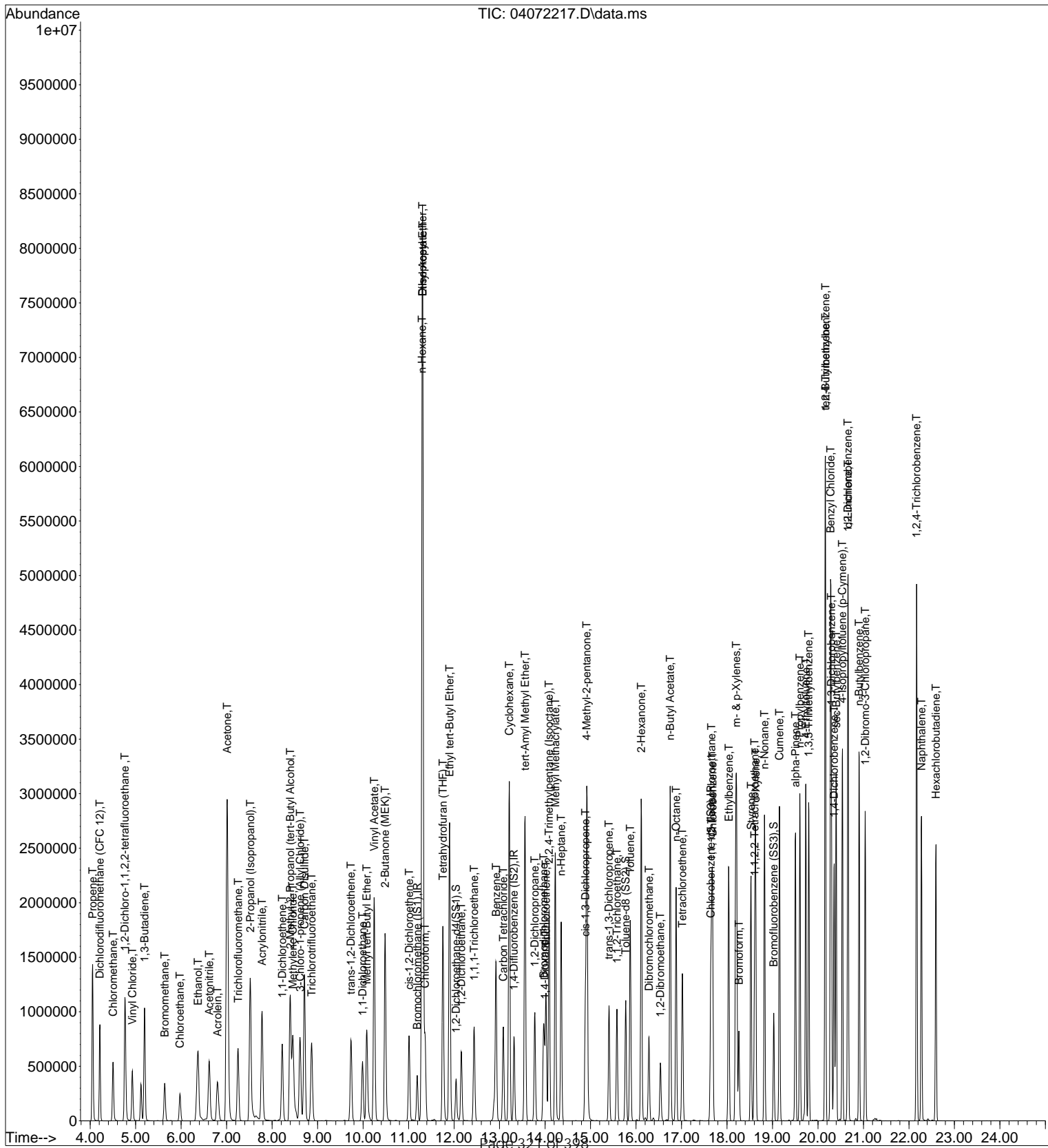
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.35	71	361337	27.547	ng	100
52) cis-1,3-Dichloropropene	14.89	75	599929	28.701	ng	100
53) 4-Methyl-2-pentanone	14.92	58	807860	63.596	ng	100
54) trans-1,3-Dichloropropene	15.40	75	568292	29.215	ng	100
55) 1,1,2-Trichloroethane	15.58	97	347981	26.803	ng	100
58) Toluene	15.87	91	1460201	20.519	ng	100
59) 2-Hexanone	16.11	43	2454302	54.056	ng	100
60) Dibromochloromethane	16.29	129	466081	22.319	ng	100
61) 1,2-Dibromoethane	16.53	107	417592	22.095	ng	100
62) n-Butyl Acetate	16.75	43	2701918	54.100	ng	100
63) n-Octane	16.88	57	384472	26.204	ng	100
64) Tetrachloroethene	17.02	166	433885	19.545	ng	100
65) Chlorobenzene	17.68	112	999900	19.182	ng	100
66) Ethylbenzene	18.04	91	1743273	21.549	ng	100
67) m- & p-Xylenes	18.20	91	2830885	43.406	ng	100
68) Bromoform	18.26	173	412778	22.830	ng	100
69) Styrene	18.53	104	1069586	21.763	ng	100
70) o-Xylene	18.63	91	1426637	22.238	ng	100
71) n-Nonane	18.82	43	1114282	27.798	ng	100
72) 1,1,2,2-Tetrachloroethane	18.61	83	628374	21.498	ng	100
74) Cumene	19.15	105	1793737	21.035	ng	100
75) alpha-Pinene	19.50	93	940579	23.314	ng	100
76) n-Propylbenzene	19.60	91	2223017	22.002	ng	100
77) 3-Ethyltoluene	19.73	105	1831703	No Calib		
78) 4-Ethyltoluene	19.73	105	1831703	22.236	ng	100
79) 1,3,5-Trimethylbenzene	19.79	105	1525897	21.932	ng	100
80) alpha-Methylstyrene	19.60	118	3484	No Calib		
81) 2-Ethyltoluene	20.66	105	42947	No Calib		
82) 1,2,4-Trimethylbenzene	20.16	105	1632215	22.088	ng	100
83) n-Decane	20.51	58	349	No Calib	#	
84) Benzyl Chloride	20.28	91	2840497	48.158	ng	100
85) 1,3-Dichlorobenzene	20.29	146	911566	20.265	ng	100
86) 1,4-Dichlorobenzene	20.36	146	893590	19.852	ng	100
87) sec-Butylbenzene	20.40	105	2065002	21.731	ng	100
88) 4-Isopropyltoluene (p-...	20.54	119	1776436	21.442	ng	100
89) 1,2,3-Trimethylbenzene	20.40	105	2065002	No Calib		
90) 1,2-Dichlorobenzene	20.66	146	876331	20.220	ng	100
91) d-Limonene	20.66	68	668066	26.570	ng	100
92) 1,2-Dibromo-3-Chloropr...	21.04	157	678519	42.386	ng	100
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	22.17	180	1433249	38.542	ng	100
95) Naphthalene	22.28	128	2072741	21.617	ng	100
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	22.59	225	467114	20.736	ng	100
98) Cyclohexanone	18.62	55	1387	No Calib		
99) tert-Butylbenzene	20.16	119	1519380	20.904	ng	100
100) n-Butylbenzene	20.90	91	1732185	22.516	ng	100
101) 1,1,1,2-Tetrachloroethane	17.66	131	381076	20.507	ng	100

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

Data File : I:\MS09\DATA\2022 04\07\04072217.D
 Acq On : 7 Apr 2022 14:57
 Sample : 25ng TO-15 ICAL STD
 Misc : S35-03082201/S35-04052201 (5/5)

Vial: 7
 Operator: SC
 Inst : MS09

Quant Time: Apr 07 15:25:08 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 15:24:56 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2022 04\07\04072218.D
 Acq On : 7 Apr 2022 15:31
 Sample : 50ng TO-15 ICAL STD
 Misc : S35-03082201/S35-04052201 (5/5)

Vial: 7
 Operator: SC
 Inst : MS09

Quant Time: Apr 07 15:58:02 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 15:24:56 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

4/7/22

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.20	130	164624	12.500	ng	0.00
37) 1,4-Difluorobenzene (IS2)	13.32	114	697846	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	17.64	54	183769	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.05	65	311817	14.007	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	112.08%	
57) Toluene-d8 (SS2)	15.77	98	816813	10.067	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	80.56%	
73) Bromofluorobenzene (SS3)	19.03	174	290991	10.113	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	80.88%	

Target Compounds

						Qvalue
2) Propene	4.05	42	1118111	62.817	ng	100
3) Dichlorodifluoromethan...	4.21	85	1500589	48.747	ng	100
4) Chloromethane	4.51	50	1233915	57.109	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	4.77	135	701829	44.050	ng	100
6) Vinyl Chloride	4.93	62	1074805	55.548	ng	100
7) 1,3-Butadiene	5.20	54	1031640	63.566	ng	99
8) Bromomethane	5.64	94	543182	46.481	ng	100
9) Chloroethane	5.98	64	484629	52.807	ng	100
10) Ethanol	6.40	45	2722382	235.083	ng	100
11) Acetonitrile	6.63	41	1812605	56.710	ng	100
12) Acrolein	6.81	56	1023067	127.321	ng	100
13) Acetone	7.03	58	3129405	285.352	ng	96
14) Trichlorofluoromethane	7.26	101	1379701	48.897	ng	100
15) 2-Propanol (Isopropanol)	7.55	45	5088848	126.756	ng	100
16) Acrylonitrile	7.80	53	2292515	127.400	ng	100
17) 1,1-Dichloroethene	8.23	96	675308	54.908	ng	99
18) 2-Methyl-2-Propanol (t...	8.42	59	3476178	118.180	ng	99
19) Methylene Chloride	8.47	84	677339	48.235	ng	100
20) 3-Chloro-1-propene (Al...	8.62	41	1580062	66.071	ng	100
21) Trichlorotrifluoroethane	8.88	151	629696	47.074	ng	98
22) Carbon Disulfide	8.72	76	4922839	103.572	ng	100
23) trans-1,2-Dichloroethene	9.74	61	1158169	61.452	ng	99
24) 1,1-Dichloroethane	9.99	63	1325990	53.224	ng	100
25) Methyl tert-Butyl Ether	10.08	73	1573794	45.535	ng	99
26) Vinyl Acetate	10.25	86	468478	182.703	ng	98
27) 2-Butanone (MEK)	10.49	72	967196	110.731	ng	100
28) cis-1,2-Dichloroethene	11.02	61	1108543	57.379	ng	99
29) Diisopropyl Ether	11.31	87	1258069	96.670	ng	# 90
30) Ethyl Acetate	11.32	61	1419844	235.599	ng	99
31) n-Hexane	11.29	57	1594964	61.375	ng	100
32) Chloroform	11.37	83	1299991	52.476	ng	99
34) Tetrahydrofuran (THF)	11.76	72	860675	105.364	ng	100
35) Ethyl tert-Butyl Ether	11.91	87	1826787	107.763	ng	100
36) 1,2-Dichloroethane	12.16	62	1148107	55.467	ng	100
38) 1,1,1-Trichloroethane	12.44	97	1232638	52.742	ng	100
39) Isopropyl Acetate	13.32	61	23443	No Calib		
40) 1-Butanol	12.90	56	41678	No Calib		
41) Benzene	12.92	78	2679520	49.446	ng	100
42) Carbon Tetrachloride	13.08	117	1117600	50.594	ng	100
43) Cyclohexane	13.22	84	2129562	96.554	ng	97
44) tert-Amyl Methyl Ether	13.56	73	4249736	110.733	ng	99
45) 1,2-Dichloropropane	13.78	63	757297	53.948	ng	99
46) Bromodichloromethane	13.97	83	1068571	54.407	ng	100
47) Trichloroethene	14.03	130	760914	46.651	ng	100
48) 1,4-Dioxane	13.99	88	583783	52.546	ng	98
49) 2,2,4-Trimethylpentane...	14.09	57	3646321	59.939	ng	100
50) Methyl Methacrylate	14.23	100	604027	109.376	ng	96

Data File : I:\MS09\DATA\2022 04\07\04072218.D
 Acq On : 7 Apr 2022 15:31
 Sample : 50ng TO-15 ICAL STD
 Misc : S35-03082201/S35-04052201 (5/5)

Vial: 7
 Operator: SC
 Inst : MS09

Quant Time: Apr 07 15:58:02 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 15:24:56 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

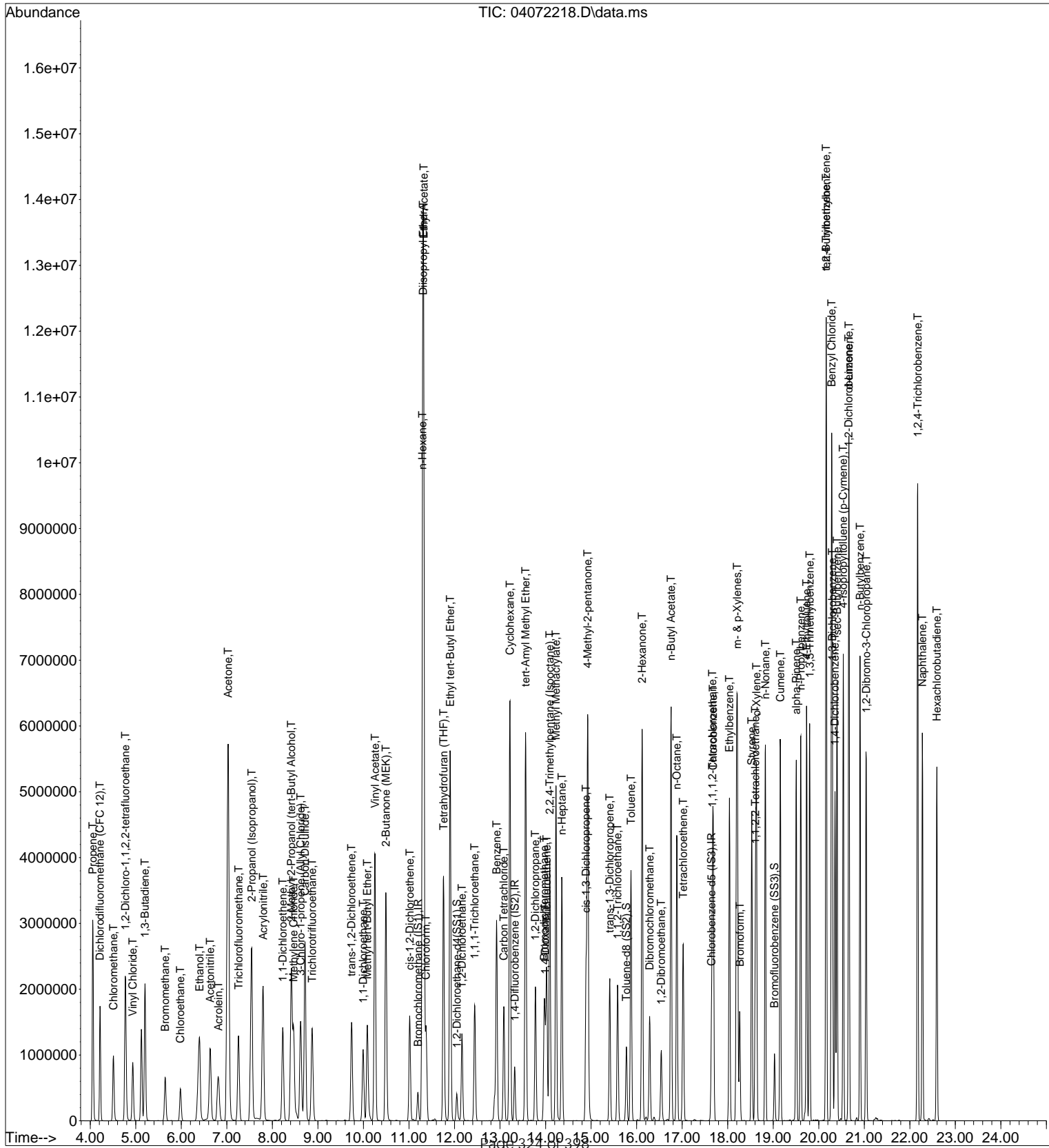
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.36	71	743801	53.931	ng	99
52) cis-1,3-Dichloropropene	14.89	75	1234012	56.150	ng	99
53) 4-Methyl-2-pentanone	14.92	58	1706285	127.755	ng	97
54) trans-1,3-Dichloropropene	15.41	75	1174987	57.450	ng	100
55) 1,1,2-Trichloroethane	15.58	97	705515	51.686	ng	99
58) Toluene	15.88	91	2961243	39.027	ng	100
59) 2-Hexanone	16.12	43	5021275	103.720	ng	99
60) Dibromochloromethane	16.29	129	944320	42.410	ng	99
61) 1,2-Dibromoethane	16.54	107	847353	42.047	ng	100
62) n-Butyl Acetate	16.76	43	5540869	104.049	ng	99
63) n-Octane	16.88	57	801315	51.220	ng	98
64) Tetrachloroethene	17.02	166	872854	36.875	ng	100
65) Chlorobenzene	17.68	112	2026117	36.454	ng	100
66) Ethylbenzene	18.04	91	3529561	40.917	ng	100
67) m- & p-Xylenes	18.21	91	5747411	82.649	ng	100
68) Bromoform	18.27	173	845734	43.870	ng	100
69) Styrene	18.53	104	2155441	41.131	ng	98
70) o-Xylene	18.63	91	2916175	42.632	ng	99
71) n-Nonane	18.83	43	2299976	53.811	ng	99
72) 1,1,2,2-Tetrachloroethane	18.61	83	1316874	42.252	ng	99
74) Cumene	19.16	105	3593595	39.522	ng	100
75) alpha-Pinene	19.50	93	1926652	44.789	ng	99
76) n-Propylbenzene	19.61	91	4448513	41.292	ng	99
77) 3-Ethyltoluene	19.73	105	3673862	No Calib		
78) 4-Ethyltoluene	19.73	105	3673862	41.828	ng	100
79) 1,3,5-Trimethylbenzene	19.80	105	3073556	41.431	ng	100
80) alpha-Methylstyrene	19.60	118	6579	No Calib	#	
81) 2-Ethyltoluene	20.67	105	88313	No Calib		
82) 1,2,4-Trimethylbenzene	20.16	105	3244395	41.175	ng	99
83) n-Decane	20.51	58	456	No Calib	#	
84) Benzyl Chloride	20.28	91	5811737	92.408	ng	100
85) 1,3-Dichlorobenzene	20.30	146	1793455	37.393	ng	100
86) 1,4-Dichlorobenzene	20.36	146	1804297	37.593	ng	100
87) sec-Butylbenzene	20.40	105	4084493	40.312	ng	99
88) 4-Isopropyltoluene (p-...	20.54	119	3490431	39.512	ng	99
89) 1,2,3-Trimethylbenzene	20.40	105	4084493	No Calib		
90) 1,2-Dichlorobenzene	20.66	146	1723513	37.296	ng	100
91) d-Limonene	20.66	68	1400246	52.229	ng	98
92) 1,2-Dibromo-3-Chloropr...	21.04	157	1359485	79.648	ng	97
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	22.17	180	2890652	72.902	ng	100
95) Naphthalene	22.28	128	4159529	40.684	ng	99
96) n-Dodecane	22.27	58	215	No Calib	#	
97) Hexachlorobutadiene	22.59	225	960536	39.990	ng	100
98) Cyclohexanone	18.63	55	2675	No Calib		
99) tert-Butylbenzene	20.16	119	2944388	37.993	ng	100
100) n-Butylbenzene	20.91	91	3471007	42.314	ng	99
101) 1,1,1,2-Tetrachloroethane	17.67	131	775788	39.154	ng	100

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

Data File : I:\MS09\DATA\2022 04\07\04072218.D
 Acq On : 7 Apr 2022 15:31
 Sample : 50ng TO-15 ICAL STD
 Misc : S35-03082201/S35-04052201 (5/5)

Vial: 7
 Operator: SC
 Inst : MS09

Quant Time: Apr 07 15:58:02 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 15:24:56 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2022 04\07\04072219.D
 Acq On : 7 Apr 2022 16:04
 Sample : 100ng TO-15 ICAL STD
 Misc : S35-03082201/S35-04052201 (5/5)

Vial: 7
 Operator: SC
 Inst : MS09

Quant Time: Apr 07 16:28:00 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 15:24:56 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

4/7/22

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.21	130	173135	12.500	ng	0.02
37) 1,4-Difluorobenzene (IS2)	13.33	114	741107	12.500	ng	0.01
56) Chlorobenzene-d5 (IS3)	17.64	54	201468	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.05	65	328303	14.022	ng	0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	112.16%	
57) Toluene-d8 (SS2)	15.78	98	866844	9.745	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	77.92%	
73) Bromofluorobenzene (SS3)	19.03	174	307962	9.763	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	78.08%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.06	42	2631679	140.584	ng	99
3) Dichlorodifluoromethan...	4.22	85	3070555	94.844	ng	99
4) Chloromethane	4.51	50	1903035	83.748	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	4.78	135	1426541	85.135	ng	100
6) Vinyl Chloride	4.94	62	2222058	109.196	ng	99
7) 1,3-Butadiene	5.21	54	2161489	126.637	ng	98
8) Bromomethane	5.66	94	1128554	91.825	ng	100
9) Chloroethane	5.99	64	1014224	105.081	ng	100
10) Ethanol	6.44	45	5786591	475.121	ng	99
11) Acetonitrile	6.67	41	3779567	112.436	ng	100
12) Acrolein	6.83	56	2135469	252.696	ng	100
13) Acetone	7.05	58	6457377	559.864	ng	# 86
14) Trichlorofluoromethane	7.26	101	2854242	96.182	ng	100
15) 2-Propanol (Isopropanol)	7.58	45	9558217	226.378	ng	100
16) Acrylonitrile	7.82	53	4785263	252.855	ng	100
17) 1,1-Dichloroethene	8.24	96	1410677	109.061	ng	99
18) 2-Methyl-2-Propanol (t...	8.44	59	5086638	164.430	ng	99
19) Methylene Chloride	8.48	84	1412323	95.630	ng	99
20) 3-Chloro-1-propene (Al...	8.63	41	3283192	130.540	ng	99
21) Trichlorotrifluoroethane	8.88	151	1297456	92.226	ng	97
22) Carbon Disulfide	8.72	76	10202599	204.101	ng	99
23) trans-1,2-Dichloroethene	9.74	61	2431961	122.695	ng	98
24) 1,1-Dichloroethane	10.00	63	2749482	104.936	ng	99
25) Methyl tert-Butyl Ether	10.09	73	2418799	66.543	ng	99
26) Vinyl Acetate	10.27	86	978374	362.802	ng	# 88
27) 2-Butanone (MEK)	10.51	72	2021324	220.038	ng	95
28) cis-1,2-Dichloroethene	11.02	61	2324938	114.424	ng	98
29) Diisopropyl Ether	11.32	87	2421598	176.928	ng	# 86
30) Ethyl Acetate	11.34	61	2704468	426.700	ng	97
31) n-Hexane	11.30	57	3110238	113.800	ng	99
32) Chloroform	11.40	83	2683415	102.996	ng	99
34) Tetrahydrofuran (THF)	11.77	72	1809293	210.605	ng	99
35) Ethyl tert-Butyl Ether	11.91	87	3759371	210.866	ng	98
36) 1,2-Dichloroethane	12.17	62	2391197	109.843	ng	100
38) 1,1,1-Trichloroethane	12.45	97	2560344	103.158	ng	99
39) Isopropyl Acetate	13.32	61	25231	No Calib		
40) 1-Butanol	12.90	56	89482	No Calib		#
41) Benzene	12.93	78	5538333	96.235	ng	99
42) Carbon Tetrachloride	13.09	117	2309399	98.443	ng	100
43) Cyclohexane	13.22	84	4350657	185.743	ng	95
44) tert-Amyl Methyl Ether	13.57	73	8691719	213.255	ng	99
45) 1,2-Dichloropropane	13.78	63	1594415	106.952	ng	99
46) Bromodichloromethane	13.97	83	2257196	108.217	ng	100
47) Trichloroethene	14.03	130	1561990	90.174	ng	99
48) 1,4-Dioxane	14.00	88	1234061	104.593	ng	95
49) 2,2,4-Trimethylpentane...	14.10	57	7554766	116.937	ng	99
50) Methyl Methacrylate	14.24	100	1251064	213.316	ng	94

Data File : I:\MS09\DATA\2022 04\07\04072219.D
 Acq On : 7 Apr 2022 16:04
 Sample : 100ng TO-15 ICAL STD
 Misc : S35-03082201/S35-04052201 (5/5)

Vial: 7
 Operator: SC
 Inst : MS09

Quant Time: Apr 07 16:28:00 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 15:24:56 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

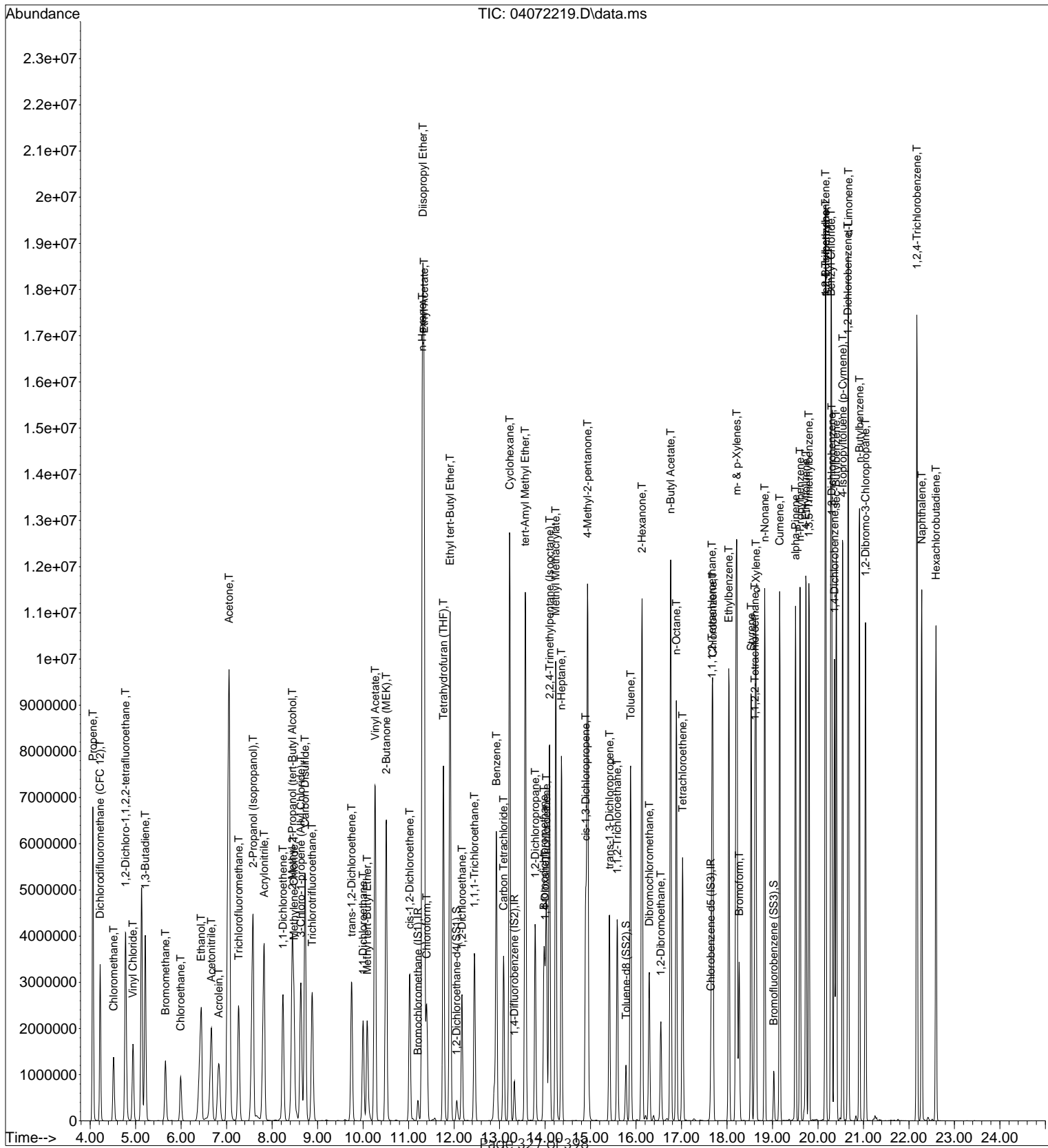
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.36	71	1572464	107.361	ng	99
52) cis-1,3-Dichloropropene	14.89	75	2603461	111.548	ng	99
53) 4-Methyl-2-pentanone	14.93	58	3573985	251.976	ng	91
54) trans-1,3-Dichloropropene	15.42	75	2476967	114.040	ng	99
55) 1,1,2-Trichloroethane	15.59	97	1470709	101.455	ng	98
58) Toluene	15.88	91	6023271	72.408	ng	99
59) 2-Hexanone	16.13	43	10043788	189.240	ng	96
60) Dibromochloromethane	16.29	129	1960532	80.313	ng	99
61) 1,2-Dibromoethane	16.55	107	1758980	79.615	ng	99
62) n-Butyl Acetate	16.76	43	10992106	188.280	ng	96
63) n-Octane	16.89	57	1718875	100.218	ng	96
64) Tetrachloroethene	17.02	166	1804445	69.535	ng	100
65) Chlorobenzene	17.69	112	4099710	67.282	ng	99
66) Ethylbenzene	18.04	91	7127000	75.363	ng	100
67) m- & p-Xylenes	18.22	91	11317649	148.452	ng	99
68) Bromoform	18.27	173	1758049	83.182	ng	99
69) Styrene	18.53	104	4361369	75.915	ng	96
70) o-Xylene	18.64	91	5877785	78.379	ng	98
71) n-Nonane	18.83	43	4706830	100.448	ng	98
72) 1,1,2,2-Tetrachloroethane	18.61	83	2721230	79.641	ng	100
74) Cumene	19.16	105	7006836	70.291	ng	99
75) alpha-Pinene	19.50	93	3905167	82.808	ng	97
76) n-Propylbenzene	19.61	91	8651022	73.247	ng	98
77) 3-Ethyltoluene	19.73	105	7129136	No Calib		
78) 4-Ethyltoluene	19.73	105	7129136	74.037	ng	99
79) 1,3,5-Trimethylbenzene	19.80	105	6063704	74.557	ng	99
80) alpha-Methylstyrene	19.61	118	13135	No Calib	#	
81) 2-Ethyltoluene	20.67	105	169898	No Calib		
82) 1,2,4-Trimethylbenzene	20.17	105	5930585	68.654	ng	100
83) n-Decane	20.51	58	975	No Calib	#	
84) Benzyl Chloride	20.29	91	10523171	152.622	ng	97
85) 1,3-Dichlorobenzene	20.31	146	3463561	65.869	ng	99
86) 1,4-Dichlorobenzene	20.36	146	3524534	66.984	ng	99
87) sec-Butylbenzene	20.40	105	7711093	69.418	ng	97
88) 4-Isopropyltoluene (p-...	20.54	119	6587843	68.024	ng	96
89) 1,2,3-Trimethylbenzene	20.40	105	7711093	No Calib		
90) 1,2-Dichlorobenzene	20.66	146	3311882	65.371	ng	99
91) d-Limonene	20.67	68	2754648	93.721	ng	97
92) 1,2-Dibromo-3-Chloropr...	21.04	157	2671622	142.771	ng	94
93) n-Undecane	21.34	58	124	No Calib	#	
94) 1,2,4-Trichlorobenzene	22.17	180	5576275	128.279	ng	99
95) Naphthalene	22.28	128	8033641	71.674	ng	98
96) n-Dodecane	22.26	58	491	No Calib	#	
97) Hexachlorobutadiene	22.59	225	1975256	75.011	ng	100
98) Cyclohexanone	18.63	55	5151	No Calib		
99) tert-Butylbenzene	20.17	119	5409844	63.673	ng	98
100) n-Butylbenzene	20.91	91	6754632	75.110	ng	98
101) 1,1,1,2-Tetrachloroethane	17.67	131	1556905	71.673	ng	100

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

Data File : I:\MS09\DATA\2022 04\07\04072219.D
 Acq On : 7 Apr 2022 16:04
 Sample : 100ng TO-15 ICAL STD
 Misc : S35-03082201/S35-04052201 (5/5)

Vial: 7
 Operator: SC
 Inst : MS09


Quant Time: Apr 07 16:28:00 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 15:24:56 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2022 04\07\04072221.D
 Acq On : 7 Apr 2022 17:10
 Sample : 25ng TO-15 ICV STD
 Misc : S35-03082201/S35-03162202 (4/15)

Vial: 2
 Operator: SC
 Inst : MS09

Quant Time: Apr 07 17:32:06 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

 4/7/22

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.19	130	182968	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.32	114	774372	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.64	54	196449	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.04	65	338919	12.110	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	96.88%	
57) Toluene-d8 (SS2)	15.77	98	901928	12.600	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	100.80%	
73) Bromofluorobenzene (SS3)	19.03	174	321985	12.772	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	102.16%	

Target Compounds

						Qvalue
2) Propene	4.05	42	553681	21.926	ng	100
3) Dichlorodifluoromethan...	4.21	85	780545	22.584	ng	100
4) Chloromethane	4.50	50	686292	23.921	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	4.76	135	377189	24.283	ng	100
6) Vinyl Chloride	4.92	62	584643	24.360	ng	100
7) 1,3-Butadiene	5.19	54	541134	25.229	ng	99
8) Bromomethane	5.63	94	303506	24.758	ng	100
9) Chloroethane	5.97	64	261396	23.816	ng	100
10) Ethanol	6.37	45	1724347	93.619	ng	100
11) Acetonitrile	6.62	41	943953	20.432	ng	100
12) Acrolein	6.80	56	539484	47.788	ng	99
13) Acetone	7.01	58	1629451	112.382	ng	96
14) Trichlorofluoromethane	7.25	101	727579	22.592	ng	99
15) 2-Propanol (Isopropanol)	7.52	45	2790429	48.689	ng	99
16) Acrylonitrile	7.77	53	1179499	46.806	ng	100
17) 1,1-Dichloroethene	8.22	96	359508	24.884	ng	98
18) 2-Methyl-2-Propanol (t...	8.39	59	2025075	55.215	ng	99
19) Methylene Chloride	8.45	84	359486	23.816	ng	97
20) 3-Chloro-1-propene (Al...	8.61	41	763334	22.514	ng	99
21) Trichlorotrifluoroethane	8.86	151	340654	24.726	ng	99
22) Carbon Disulfide	8.71	76	2500647	49.257	ng	100
23) trans-1,2-Dichloroethene	9.73	61	597457	24.890	ng	100
24) 1,1-Dichloroethane	9.99	63	715373	24.306	ng	100
25) Methyl tert-Butyl Ether	10.08	73	916076	22.831	ng	100
26) Vinyl Acetate	10.24	86	371137	142.337	ng	# 95
27) 2-Butanone (MEK)	10.48	72	499276	49.293	ng	98
28) cis-1,2-Dichloroethene	11.01	61	573090	23.788	ng	99
29) Diisopropyl Ether	11.31	87	719228	51.431	ng	# 57
30) Ethyl Acetate	11.31	61	497561	68.781	ng	96
31) n-Hexane	11.29	57	809428	24.827	ng	100
32) Chloroform	11.36	83	681780	24.100	ng	100
34) Tetrahydrofuran (THF)	11.75	72	464662	47.800	ng	98
35) Ethyl tert-Butyl Ether	11.90	87	944446	50.547	ng	98
36) 1,2-Dichloroethane	12.16	62	596881	23.900	ng	100
38) 1,1,1-Trichloroethane	12.44	97	646964	24.402	ng	100
39) Isopropyl Acetate	13.32	61	25311	No Calib		
40) 1-Butanol	12.91	56	11863	No Calib	#	
41) Benzene	12.92	78	1432436	23.896	ng	100
42) Carbon Tetrachloride	13.08	117	560367	24.307	ng	100
43) Cyclohexane	13.21	84	1116896	48.603	ng	99
44) tert-Amyl Methyl Ether	13.56	73	2171106	51.344	ng	99
45) 1,2-Dichloropropane	13.78	63	395106	23.525	ng	99
46) Bromodichloromethane	13.96	83	553476	25.340	ng	100
47) Trichloroethene	14.02	130	410088	24.001	ng	100
48) 1,4-Dioxane	13.99	88	309846	25.636	ng	100
49) 2,2,4-Trimethylpentane...	14.09	57	1844814	23.288	ng	99
50) Methyl Methacrylate	14.22	100	315779	52.564	ng	99

Data File : I:\MS09\DATA\2022 04\07\04072221.D
 Acq On : 7 Apr 2022 17:10
 Sample : 25ng TO-15 ICV STD
 Misc : S35-03082201/S35-03162202 (4/15)

Vial: 2
 Operator: SC
 Inst : MS09

Quant Time: Apr 07 17:32:06 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

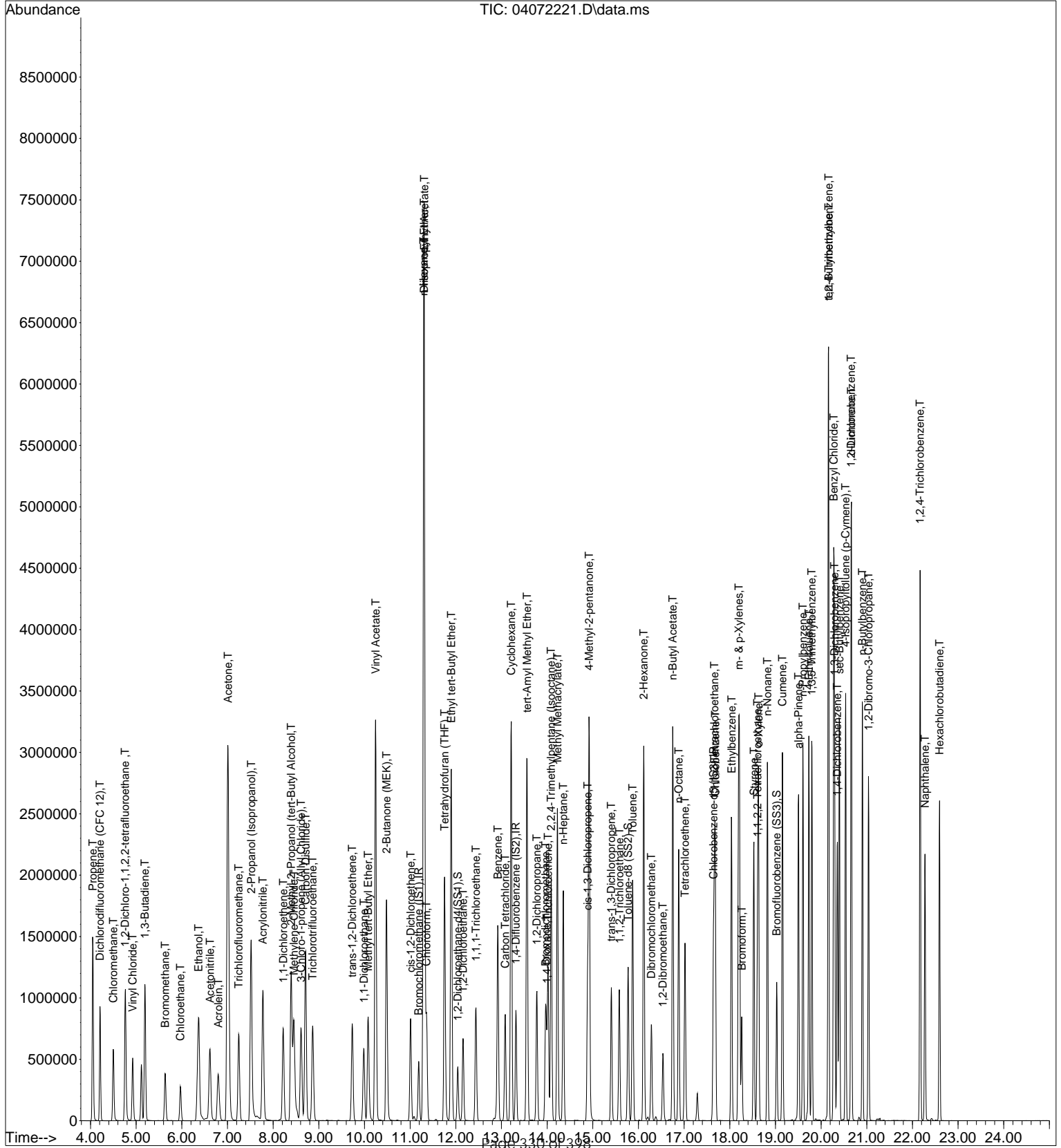
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.35	71	381352	24.368	ng	99
52) cis-1,3-Dichloropropene	14.89	75	632287	26.258	ng	100
53) 4-Methyl-2-pentanone	14.92	58	861512	50.774	ng	97
54) trans-1,3-Dichloropropene	15.40	75	589396	25.460	ng	100
55) 1,1,2-Trichloroethane	15.58	97	369094	23.990	ng	100
58) Toluene	15.87	91	1559759	23.697	ng	100
59) 2-Hexanone	16.11	43	2532014	49.932	ng	99
60) Dibromochloromethane	16.28	129	476620	25.885	ng	100
61) 1,2-Dibromoethane	16.53	107	433571	24.683	ng	100
62) n-Butyl Acetate	16.75	43	2830352	51.206	ng	99
63) n-Octane	16.88	57	402741	24.423	ng	100
64) Tetrachloroethene	17.02	166	467604	24.943	ng	99
65) Chlorobenzene	17.68	112	1044910	23.589	ng	100
66) Ethylbenzene	18.04	91	1845868	24.639	ng	100
67) m- & p-Xylenes	18.20	91	2978946	49.484	ng	99
68) Bromoform	18.26	173	430074	27.004	ng	100
69) Styrene	18.53	104	1079356	25.132	ng	100
70) o-Xylene	18.63	91	1515627	24.954	ng	100
71) n-Nonane	18.82	43	1148102	24.626	ng	99
72) 1,1,2,2-Tetrachloroethane	18.61	83	674271	24.936	ng	100
74) Cumene	19.15	105	1871191	24.437	ng	100
75) alpha-Pinene	19.50	93	966739	26.623	ng	100
76) n-Propylbenzene	19.60	91	2282500	24.794	ng	100
77) 3-Ethyltoluene	19.73	105	1869715	No Calib		
78) 4-Ethyltoluene	19.73	105	1869715	25.203	ng	100
79) 1,3,5-Trimethylbenzene	19.79	105	1611363	25.573	ng	100
80) alpha-Methylstyrene	19.60	118	3637	No Calib		
81) 2-Ethyltoluene	20.66	105	44127	No Calib		
82) 1,2,4-Trimethylbenzene	20.16	105	1706534	26.280	ng	100
83) n-Decane	20.51	58	347	No Calib	#	
84) Benzyl Chloride	20.28	91	2654482	52.539	ng	99
85) 1,3-Dichlorobenzene	20.29	146	911553	24.388	ng	100
86) 1,4-Dichlorobenzene	20.36	146	871052	23.021	ng	99
87) sec-Butylbenzene	20.40	105	2118792	24.944	ng	100
88) 4-Isopropyltoluene (p-...	20.54	119	1815112	25.186	ng	100
89) 1,2,3-Trimethylbenzene	20.40	105	2118792	No Calib		
90) 1,2-Dichlorobenzene	20.66	146	879067	24.310	ng	99
91) d-Limonene	20.66	68	684060	28.311	ng	100
92) 1,2-Dibromo-3-Chloropr...	21.04	157	682143	49.915	ng	99
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	22.17	180	1293359	42.895	ng	99
95) Naphthalene	22.28	128	1629345	19.935	ng	100
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	22.59	225	478290	23.871	ng	99
98) Cyclohexanone	18.63	55	1462	No Calib		
99) tert-Butylbenzene	20.16	119	1591622	25.492	ng	100
100) n-Butylbenzene	20.90	91	1754890	24.754	ng	100
101) 1,1,1,2-Tetrachloroethane	17.66	131	399604	24.709	ng	100

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

Data File : I:\MS09\DATA\2022 04\07\04072221.D
 Acq On : 7 Apr 2022 17:10
 Sample : 25ng TO-15 ICV STD
 Misc : S35-03082201/S35-03162202 (4/15)

Vial: 2
 Operator: SC
 Inst : MS09

Quant Time: Apr 07 17:32:06 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



Initial Calibration Verification/LABORATORY CONTROL SAMPLE CHECK SHEET

Data File Name: 04072221.D
 Data File Path: I:\MS09\DATA\2022_04\07\
 Operator: SC
 Date Acquired: 4/7/2022 17:10

Acq. Method File: TO15.M 4/7/22
 Sample Name: 25ng TO-15 ICV STD
 Misc Info: S35-03082201/S35-03162202 (
 Instrument Name: MS09

#	Compound Name	Ret. Time	Amt. (ng)	Spike Amt.(ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail	ICV/AZ 70-130%
2)	Propene	4.05	21.9	25.75	85	56	128	*	*
3)	Dichlorodifluoromethane (CFC 12)	4.21	22.6	26.00	87	71	112	*	*
4)	Chloromethane	4.50	23.9	25.75	93	53	126	*	*
5)	1,2-Dichloro-1,1,2,2-tetrafluoroethane	4.76	24.3	26.00	93	62	121	*	*
6)	Vinyl Chloride	4.92	24.4	26.00	94	63	123	*	*
7)	1,3-Butadiene	5.19	25.2	25.75	98	63	135	*	*
8)	Bromomethane	5.63	24.8	25.75	96	71	112	*	*
9)	Chloroethane	5.97	23.8	25.75	92	66	117	*	*
10)	Ethanol	6.37	94	104.00	90	57	117	*	*
11)	Acetonitrile	6.62	20.4	25.25	81	59	131	*	*
12)	Acrolein	6.80	47.8	52.00	92	71	123	*	*
13)	Acetone	7.01	112	128.00	88	60	117	*	*
14)	Trichlorofluoromethane	7.25	22.6	25.25	90	71	114	*	*
15)	2-Propanol (Isopropanol)	7.52	48.7	50.00	97	61	124	*	*
16)	Acrylonitrile	7.77	46.8	50.25	93	65	130	*	*
17)	1,1-Dichloroethene	8.22	24.9	26.25	95	74	114	*	*
18)	2-Methyl-2-Propanol (tert-Butyl Alcohol)	8.39	55.2	51.00	108	56	135	*	*
19)	Methylene Chloride	8.45	23.8	26.00	92	75	112	*	*
20)	3-Chloro-1-propene (Allyl Chloride)	8.61	22.5	25.50	88	57	127	*	*
21)	Trichlorotrifluoroethane	8.86	24.7	27.00	91	73	114	*	*
22)	Carbon Disulfide	8.71	49.3	51.75	95	70	113	*	*
23)	trans-1,2-Dichloroethene	9.73	24.9	26.00	96	76	119	*	*
24)	1,1-Dichloroethane	9.99	24.3	26.75	91	70	114	*	*
25)	Methyl tert-Butyl Ether	10.08	22.8	25.75	89	72	118	*	*
26)	Vinyl Acetate	10.24	142	117.75	121	56	137	*	*
27)	2-Butanone (MEK)	10.48	49.3	51.00	97	74	121	*	*
28)	cis-1,2-Dichloroethene	11.01	23.8	25.75	92	73	117	*	*
29)	Diisopropyl Ether	11.31	51.4	52.25	98	58	124	*	*
30)	Ethyl Acetate	11.31	68.8	72.50	95	59	161	*	*
31)	n-Hexane	11.29	24.8	26.00	95	55	130	*	*
32)	Chloroform	11.36	24.1	26.25	92	71	114	*	*
34)	Tetrahydrofuran (THF)	11.75	47.8	50.50	95	73	114	*	*
35)	Ethyl tert-Butyl Ether	11.90	50.5	51.75	98	76	119	*	*
36)	1,2-Dichloroethane	12.16	23.9	26.25	91	71	119	*	*
38)	1,1,1-Trichloroethane	12.44	24.4	26.00	94	73	119	*	*
41)	Benzene	12.92	23.9	26.00	92	72	113	*	*
42)	Carbon Tetrachloride	13.08	24.3	25.25	96	67	123	*	*
43)	Cyclohexane	13.21	48.6	51.50	94	70	119	*	*
44)	tert-Amyl Methyl Ether	13.56	51.3	51.50	100	74	120	*	*
45)	1,2-Dichloropropane	13.78	23.5	25.75	91	70	118	*	*
46)	Bromodichloromethane	13.96	25.3	26.00	97	74	119	*	*
47)	Trichloroethene	14.02	24.0	25.50	94	74	115	*	*
48)	1,4-Dioxane	13.99	25.6	25.75	99	77	124	*	*
49)	2,2,4-Trimethylpentane (Isooctane)	14.09	23.3	26.25	89	65	120	*	*

Initial Calibration Verification/LABORATORY CONTROL SAMPLE CHECK SHEET

Data File Name: **04072221.D**

TO15.M

Data File Path: I:\MS09\DATA\2022_04\07\

Sample Name: **25ng TO-15 ICV STD**

Operator: **SC**

Misc Info: **S35-03082201/S35-03162202 (**

Date Acquired: **4/7/2022**

17:10

Instrument Name: **MS09**

#	Compound Name	Ret. Time	Amt. (ng)	Spike Amt.(ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail	ICV/AZ 70-130%
50)	Methyl Methacrylate	14.22	52.6	51.25	103	78	126	*	*
51)	n-Heptane	14.35	24.4	25.75	95	70	119	*	*
52)	cis-1,3-Dichloropropene	14.89	26.3	26.00	101	81	126	*	*
53)	4-Methyl-2-pentanone	14.92	50.8	51.50	99	73	129	*	*
54)	trans-1,3-Dichloropropene	15.41	25.5	25.00	102	80	127	*	*
55)	1,1,2-Trichloroethane	15.58	24.0	26.00	92	78	117	*	*
58)	Toluene	15.87	23.7	25.75	92	70	118	*	*
59)	2-Hexanone	16.11	49.9	50.75	98	74	132	*	*
60)	Dibromochloromethane	16.28	25.9	26.25	99	69	137	*	*
61)	1,2-Dibromoethane	16.53	24.7	26.00	95	76	128	*	*
62)	n-Butyl Acetate	16.75	51.2	50.75	101	75	134	*	*
63)	n-Octane	16.88	24.4	26.00	94	68	120	*	*
64)	Tetrachloroethene	17.02	24.9	26.50	94	63	130	*	*
65)	Chlorobenzene	17.68	23.6	25.75	92	70	118	*	*
66)	Ethylbenzene	18.04	24.6	25.75	96	71	123	*	*
67)	m- & p-Xylenes	18.20	49.5	52.00	95	67	127	*	*
68)	Bromoform	18.26	27.0	26.25	103	65	149	*	*
69)	Styrene	18.53	25.1	25.25	99	76	132	*	*
70)	o-Xylene	18.63	25.0	26.00	96	69	124	*	*
71)	n-Nonane	18.82	24.6	26.00	95	64	127	*	*
72)	1,1,2,2-Tetrachloroethane	18.61	24.9	26.00	96	69	128	*	*
74)	Cumene	19.15	24.4	25.75	95	69	125	*	*
75)	alpha-Pinene	19.50	26.6	26.25	101	68	129	*	*
76)	n-Propylbenzene	19.60	24.8	26.00	95	70	127	*	*
78)	4-Ethyltoluene	19.73	25.2	26.00	97	69	127	*	*
79)	1,3,5-Trimethylbenzene	19.79	25.6	26.00	98	66	129	*	*
82)	1,2,4-Trimethylbenzene	20.16	26.3	25.75	102	63	142	*	*
84)	Benzyl Chloride	20.28	52.5	52.00	101	73	145	*	*
85)	1,3-Dichlorobenzene	20.29	24.4	26.00	94	67	136	*	*
86)	1,4-Dichlorobenzene	20.36	23.0	26.25	88	63	134	*	*
87)	sec-Butylbenzene	20.40	24.9	25.50	98	68	130	*	*
88)	4-Isopropyltoluene (p-Cymene)	20.54	25.2	25.75	98	60	139	*	*
90)	1,2-Dichlorobenzene	20.66	24.3	26.25	93	64	139	*	*
91)	d-Limonene	20.66	28.3	25.75	110	63	137	*	*
92)	1,2-Dibromo-3-Chloropropane	21.04	49.9	50.50	99	72	145	*	*
94)	1,2,4-Trichlorobenzene	22.17	42.9	52.50	82	62	154	*	*
95)	Naphthalene	22.28	19.9	26.25	76	62	156	*	*
97)	Hexachlorobutadiene	22.59	23.9	26.50	90	55	142	*	*
99)	tert-Butylbenzene	20.16	25.5	25.75	99	61	140	*	*
100)	n-Butylbenzene	20.90	24.8	26.00	95	70	131	*	*
101)	1,1,1,2-Tetrachloroethane	17.66	24.7	25.75	96	70	130	*	*

Bold = 75 Compound List

*** = Pass**

ICV/LCS Standard Concentrations (Secondary Source)

4/13/22

4ng/L Working Std. ID:
 20ng/L Working Std. ID:
 200ng/L Working Std. ID: S35-03162202
 1000ng/L Working Std. ID:
 Dilution Factor: 1 5 50 250
 Working Std. Conc. Utilized: 200
 Working Std. Injection Amounts (L):

Compounds	Secondary Working Std. Conc.					mg/m ³	Secondary Working Std. Conc.					ICV / LCS Actual Conc.(ng)
	1000ng/L	200ng/L	20ng/L	4ng/L	0.125		1000ng/L	200ng/L	20ng/L	4ng/L	0.125	
Propene	1.03	1030	206	20.6	4.12	25.75	1.03	1030	206	20.6	4.12	25.75
Dichlorodifluoromethane(12)	1.04	1040	208	20.8	4.16	26.00	1.04	1040	208	20.8	4.16	26.00
Chloromethane	1.03	1030	206	20.6	4.12	25.75	1.04	1040	208	20.8	4.16	26.00
Freon-114	1.04	1040	208	20.8	4.16	26.00	1.00	1000	200	20.0	4.00	25.00
Vinyl Chloride	1.04	1040	208	20.8	4.16	26.00	1.04	1040	208	20.8	4.16	26.00
1,3-Butadiene	1.03	1030	206	20.6	4.12	25.75	1.03	1030	206	20.6	4.12	25.75
Bromomethane	1.03	1030	206	20.6	4.12	25.75	1.03	1030	206	20.6	4.12	25.75
Chloroethane	1.03	1030	206	20.6	4.12	25.75	2.03	2030	406	40.6	8.12	50.75
Ethanol	4.16	4160	832	83.2	16.64	104.00	1.05	1050	210	21.0	4.20	26.25
Acetonitrile	1.01	1010	202	20.2	4.04	25.25	1.04	1040	208	20.8	4.16	26.00
Acrolein	2.08	2080	416	41.6	8.32	52.00	2.03	2030	406	40.6	8.12	50.75
Acetone	5.12	5120	1024	102.4	20.48	128.00	1.04	1040	208	20.8	4.16	26.00
Trichlorofluoromethane(11)	1.01	1010	202	20.2	4.04	25.25	1.06	1060	212	21.2	4.24	26.50
Isopropanol	2.00	2000	400	40.0	8.00	50.00	1.03	1030	206	20.6	4.12	25.75
Acrylonitrile	2.01	2010	402	40.2	8.04	50.25	1.03	1030	206	20.6	4.12	25.75
1,1-Dichloroethene	1.05	1050	210	21.0	4.20	26.25	2.08	2080	416	41.6	8.32	52.00
tert-Butanol	2.04	2040	408	40.8	8.16	51.00	1.05	1050	210	21.0	4.20	26.25
Methylene Chloride	1.04	1040	208	20.8	4.16	26.00	1.01	1010	202	20.2	4.04	25.25
Allyl Chloride	1.02	1020	204	20.4	4.08	25.50	1.04	1040	208	20.8	4.16	26.00
Trichlorotrifluoroethane(113)	1.08	1080	216	21.6	4.32	27.00	1.04	1040	208	20.8	4.16	26.00
Carbon Disulfide	2.07	2070	414	41.4	8.28	51.75	1.04	1040	208	20.8	4.16	26.00
trans-1,2-Dichloroethene	1.04	1040	208	20.8	4.16	26.00	1.03	1030	206	20.6	4.12	25.75
1,1-Dichloroethane	1.07	1070	214	21.4	4.28	26.75	1.05	1050	210	21.0	4.20	26.25
Methyl tert-Butyl Ether	1.03	1030	206	20.6	4.12	25.75	1.04	1040	208	20.8	4.16	26.00
Vinyl Acetate	4.71	4710	942	94.2	18.84	117.75	1.04	1040	208	20.8	4.16	26.00
2-Butanone	2.04	2040	408	40.8	8.16	51.00	1.04	1040	208	20.8	4.16	26.00
cis-1,2-Dichloroethene	1.03	1030	206	20.6	4.12	25.75	1.03	1030	206	20.6	4.12	25.75
Diisopropyl Ether	2.09	2090	418	41.8	8.36	52.25	1.03	1030	206	20.6	4.12	25.75
Ethyl Acetate	2.90	2900	580	58.0	11.60	72.50	1.04	1040	208	20.8	4.16	26.00
n-Hexane	1.04	1040	208	20.8	4.16	26.00	1.05	1050	210	21.0	4.20	26.25
Chloroform	1.05	1050	210	21.0	4.20	26.25	1.02	1020	204	20.4	4.08	25.50
Tetrahydrofuran	2.02	2020	404	40.4	8.08	50.50	1.03	1030	206	20.6	4.12	25.75
Ethyl tert-Butyl Ether	2.07	2070	414	41.4	8.28	51.75	1.05	1050	210	21.0	4.20	26.25
1,2-Dichloroethane	1.05	1050	210	21.0	4.20	26.25	1.03	1030	206	20.6	4.12	25.75
1,1,1-Trichloroethane	1.04	1040	208	20.8	4.16	26.00	2.02	2020	404	40.4	8.08	50.50
Benzene	1.04	1040	208	20.8	4.16	26.00	2.10	2100	420	42.0	8.40	52.50
Carbon Tetrachloride	1.01	1010	202	20.2	4.04	25.25	1.05	1050	210	21.0	4.20	26.25
Cyclohexane	2.06	2060	412	41.2	8.24	51.50	1.06	1060	212	21.2	4.24	26.50
tert-Amyl Methyl Ether	2.06	2060	412	41.2	8.24	51.50	1.03	1030	206	20.6	4.12	25.75
1,2-Dichloropropane	1.03	1030	206	20.6	4.12	25.75	1.04	1040	208	20.8	4.16	26.00
Bromodichloromethane	1.03	1030	206	20.6	4.12	25.75	1.03	1030	206	20.6	4.12	25.75
Trichloroethene	1.02	1020	204	20.4	4.08	25.50	1.04	1040	208	20.8	4.16	26.00
1,4-Dioxane	1.03	1030	206	20.6	4.12	25.75	1.03	1030	206	20.6	4.12	25.75
Isocitane	1.05	1050	210	21.0	4.20	26.25	1.05	1050	210	21.0	4.20	26.25

*Enter Information in the Solid Shaded Areas ONLY.

Data File : I:\MS09\DATA\2022 04\14\04142201.D
 Acq On : 14 Apr 2022 00:21
 Sample : CCV R9041422 25ng
 Misc : S35-04132201/S35-04052201 (5/5)

Vial: 2
 Operator: SC
 Inst : MS09

Quant Time: Apr 14 08:21:09 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

 4/14/22

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	90	-0.02
2 T	Propene	1.725	1.652	4.2	91	-0.02
3 T	Dichlorodifluoromethane (CF	2.361	2.128	9.9	84	-0.02
4 T	Chloromethane	1.960	1.972	-0.6	89	-0.02
5 T	1,2-Dichloro-1,1,2,2-tetra	1.061	0.934	12.0	82	-0.02
6 T	Vinyl Chloride	1.640	1.611	1.8	89	-0.02
7 T	1,3-Butadiene	1.465	1.526	-4.2	90	-0.03
8 T	Bromomethane	0.837	0.806	3.7	86	-0.03
9 T	Chloroethane	0.750	0.706	5.9	86	-0.03
10 T	Ethanol	1.258	1.143	9.1	89	-0.09
11 T	Acetonitrile	3.156	3.004	4.8	89	-0.06
12 T	Acrolein	0.771	0.776	-0.6	87	-0.03
13 T	Acetone	0.991	0.912	8.0	88	-0.05
14 T	Trichlorofluoromethane	2.200	1.948	11.5	83	-0.02
15 T	2-Propanol (Isopropanol)	3.915	3.894	0.5	88	-0.08
16 T	Acrylonitrile	1.722	1.694	1.6	87	-0.06
17 T	1,1-Dichloroethene	0.987	0.920	6.8	84	-0.02
18 T	2-Methyl-2-Propanol (tert-B	2.506	2.637	-5.2	80	-0.06
19 T	Methylene Chloride	1.031	0.958	7.1	85	-0.03
20 T	3-Chloro-1-propene (Allyl C	2.316	2.272	1.9	88	-0.03
21 T	Trichlorotrifluoroethane	0.941	0.800	15.0	78	-0.02
22 T	Carbon Disulfide	3.468	3.505	-1.1	87	-0.02
23 T	trans-1,2-Dichloroethene	1.640	1.625	0.9	86	-0.02
24 T	1,1-Dichloroethane	2.011	1.900	5.5	86	-0.02
25 T	Methyl tert-Butyl Ether	2.741	2.393	12.7	79	-0.02
26 T	Vinyl Acetate	0.178	0.201	-12.9	85	-0.03
27 T	2-Butanone (MEK)	0.692	0.696	-0.6	85	-0.03
28 T	cis-1,2-Dichloroethene	1.646	1.580	4.0	86	-0.02
29 T	Diisopropyl Ether	0.955	1.001	-4.8	88	-0.02
30 T	Ethyl Acetate	0.494	0.544	-10.1	90	-0.03
31 T	n-Hexane	2.227	2.390	-7.3	91	-0.01
32 T	Chloroform	1.933	1.786	7.6	84	-0.04
33 S	1,2-Dichloroethane-d4 (SS1)	1.912	1.970	-3.0	93	-0.02
34 T	Tetrahydrofuran (THF)	0.664	0.644	3.0	86	-0.02
35 T	Ethyl tert-Butyl Ether	1.276	1.268	0.6	85	-0.02
36 T	1,2-Dichloroethane	1.706	1.610	5.6	85	-0.02
37 IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	92	-0.01
38 T	1,1,1-Trichloroethane	0.428	0.393	8.2	83	-0.01
39 T	Isopropyl Acetate	0.000	0.000	0.0	100	0.00
40 T	1-Butanol	0.000	0.000	0.0	85	0.00
41 T	Benzene	0.968	0.878	9.3	85	-0.01
42 T	Carbon Tetrachloride	0.372	0.348	6.5	82	-0.01
43 T	Cyclohexane	0.371	0.352	5.1	85	-0.02
44 T	tert-Amyl Methyl Ether	0.683	0.697	-2.0	88	-0.01
45 T	1,2-Dichloropropane	0.271	0.255	5.9	87	-0.01
46 T	Bromodichloromethane	0.353	0.342	3.1	85	-0.01
47 T	Trichloroethene	0.276	0.241	12.7	80	-0.01
48 T	1,4-Dioxane	0.195	0.185	5.1	83	-0.02
49 T	2,2,4-Trimethylpentane (Iso	1.279	1.198	6.3	87	-0.01
50 T	Methyl Methacrylate	0.097	0.095	2.1	81	-0.01
51 T	n-Heptane	0.253	0.241	4.7	85	0.00
52 T	cis-1,3-Dichloropropene	0.389	0.397	-2.1	85	-0.01
53 T	4-Methyl-2-pentanone	0.274	0.278	-1.5	88	-0.02
54 T	trans-1,3-Dichloropropene	0.374	0.387	-3.5	84	-0.01
55 T	1,1,2-Trichloroethane	0.248	0.228	8.1	83	0.00

Data File : I:\MS09\DATA\2022 04\14\04142201.D
 Acq On : 14 Apr 2022 00:21
 Sample : CCV R9041422 25ng
 Misc : S35-04132201/S35-04052201 (5/5)

Vial: 2
 Operator: SC
 Inst : MS09

Quant Time: Apr 14 08:21:09 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.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	97	0.00
57 S Toluene-d8 (SS2)	4.555	4.333	4.9	92	0.00
58 T Toluene	4.188	3.556	15.1	84	-0.01
59 T 2-Hexanone	3.227	3.158	2.1	88	-0.02
60 T Dibromochloromethane	1.172	1.082	7.7	81	-0.01
61 T 1,2-Dibromoethane	1.118	0.992	11.3	82	-0.01
62 T n-Butyl Acetate	3.517	3.525	-0.2	89	-0.01
63 T n-Octane	1.049	0.944	10.0	86	0.00
64 T Tetrachloroethene	1.193	0.966	19.0	77	0.00
65 T Chlorobenzene	2.819	2.390	15.2	83	0.00
66 T Ethylbenzene	4.767	4.244	11.0	84	0.00
67 T m- & p-Xylenes	3.831	3.452	9.9	84	-0.01
68 T Bromoform	1.013	0.920	9.2	77	0.00
69 T Styrene	2.733	2.544	6.9	82	0.00
70 T o-Xylene	3.865	3.463	10.4	84	-0.01
71 T n-Nonane	2.966	2.797	5.7	87	0.00
72 T 1,1,2,2-Tetrachloroethane	1.721	1.567	8.9	86	-0.01
73 S Bromofluorobenzene (SS3)	1.604	1.356	15.5	80	0.00
74 T Cumene	4.872	4.296	11.8	83	0.00
75 T alpha-Pinene	2.311	2.195	5.0	84	0.00
76 T n-Propylbenzene	5.858	5.361	8.5	84	0.00
77 T 3-Ethyltoluene	0.000	0.000	0.0	84	0.00
78 T 4-Ethyltoluene	4.720	4.344	8.0	84	0.00
79 T 1,3,5-Trimethylbenzene	4.009	3.660	8.7	83	0.00
80 T alpha-Methylstyrene	0.000	0.000	0.0	87	0.00
81 T 2-Ethyltoluene	0.000	0.000	0.0	85	0.00
82 T 1,2,4-Trimethylbenzene	4.132	4.102	0.7	86	-0.01
83 T n-Decane	0.000	0.000	0.0	365#	0.00
84 T Benzyl Chloride	3.215	3.552	-10.5	86	-0.01
85 T 1,3-Dichlorobenzene	2.378	2.140	10.0	81	-0.01
86 T 1,4-Dichlorobenzene	2.408	2.097	12.9	81	-0.01
87 T sec-Butylbenzene	5.405	4.987	7.7	84	0.00
88 T 4-Isopropyltoluene (p-Cymen)	4.586	4.273	6.8	83	0.00
89 T 1,2,3-Trimethylbenzene	0.000	0.000	0.0	84	0.00
90 T 1,2-Dichlorobenzene	2.301	2.071	10.0	83	0.00
91 T d-Limonene	1.537	1.628	-5.9	85	0.00
92 T 1,2-Dibromo-3-Chloropropane	0.870	0.887	-2.0	87	0.00
93 T n-Undecane	0.000	0.000	0.0	0#	-21.34#
94 T 1,2,4-Trichlorobenzene	1.919	1.681	12.4	80	0.00
95 T Naphthalene	5.201	4.737	8.9	79	0.00
96 T n-Dodecane	0.000	0.000	0.0	0#	-22.26#
97 T Hexachlorobutadiene	1.275	1.009	20.9	74	0.00
98 T Cyclohexanone	0.000	0.000	0.0	85	0.00
99 T tert-Butylbenzene	3.973	3.751	5.6	86	-0.01
100 T n-Butylbenzene	4.511	4.545	-0.8	91	-0.01
101 T 1,1,1,2-Tetrachloroethane	1.029	0.902	12.3	82	-0.01

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data File : I:\MS09\DATA\2022 04\14\04142201.D
 Acq On : 14 Apr 2022 00:21
 Sample : CCV R9041422 25ng
 Misc : S35-04132201/S35-04052201 (5/5)

Vial: 2
 Operator: SC
 Inst : MS09

Quant Time: Apr 14 08:21:09 2022

4/14/22

Quant Method : I:\MS09\Methods\R9040722.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Thu Apr 07 16:31:14 2022

Response via : Initial Calibration

DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	11.19	130	140516	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.32	114	610377	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.64	54	166540	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.04	65	276841	12.880	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	103.04%	
57) Toluene-d8 (SS2)	15.77	98	721567	11.891	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	95.12%	
73) Bromofluorobenzene (SS3)	19.03	174	225784	10.564	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	84.48%	

Target Compounds

						Qvalue
2) Propene	4.04	42	482743	24.893	ng	100
3) Dichlorodifluoromethan...	4.20	85	627796	23.652	ng	99
4) Chloromethane	4.49	50	565208	25.653	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	4.75	135	283564	23.771	ng	99
6) Vinyl Chloride	4.92	62	470764	25.541	ng	100
7) 1,3-Butadiene	5.18	54	446107	27.083	ng	98
8) Bromomethane	5.63	94	231103	24.548	ng	100
9) Chloroethane	5.96	64	202450	24.018	ng	100
10) Ethanol	6.35	45	1162783	82.203	ng	100
11) Acetonitrile	6.60	41	785026	22.126	ng	99
12) Acrolein	6.79	56	435885	50.276	ng	100
13) Acetone	7.00	58	1330155	119.455	ng	96
14) Trichlorofluoromethane	7.24	101	563943	22.801	ng	100
15) 2-Propanol (Isopropanol)	7.50	45	2210846	50.230	ng	100
16) Acrylonitrile	7.77	53	966437	49.937	ng	100
17) 1,1-Dichloroethene	8.22	96	276652	24.934	ng	96
18) 2-Methyl-2-Propanol (t...	8.38	59	1556181	55.249	ng	99
19) Methylene Chloride	8.45	84	279897	24.145	ng	94
20) 3-Chloro-1-propene (Al...	8.60	41	670406	25.747	ng	99
21) Trichlorotrifluoroethane	8.86	151	242792	22.946	ng	91
22) Carbon Disulfide	8.70	76	2068587	53.057	ng	100
23) trans-1,2-Dichloroethene	9.73	61	484104	26.261	ng	97
24) 1,1-Dichloroethane	9.98	63	560748	24.808	ng	100
25) Methyl tert-Butyl Ether	10.07	73	706272	22.920	ng	99
26) Vinyl Acetate	10.24	86	192372	96.067	ng	# 87
27) 2-Butanone (MEK)	10.48	72	403082	51.818	ng	94
28) cis-1,2-Dichloroethene	11.00	61	461806	24.959	ng	97
29) Diisopropyl Ether	11.30	87	596452	55.537	ng	# 86
30) Ethyl Acetate	11.31	61	623310	112.196	ng	98
31) n-Hexane	11.29	57	705222	28.166	ng	99
32) Chloroform	11.36	83	537164	24.725	ng	99
34) Tetrahydrofuran (THF)	11.75	72	356718	47.782	ng	95
35) Ethyl tert-Butyl Ether	11.90	87	748310	52.150	ng	96
36) 1,2-Dichloroethane	12.16	62	479465	24.998	ng	99
38) 1,1,1-Trichloroethane	12.44	97	498432	23.851	ng	98
39) Isopropyl Acetate	13.32	61	21998	No Calib		
40) 1-Butanol	12.90	56	16353	No Calib		
41) Benzene	12.92	78	1114153	23.580	ng	100
42) Carbon Tetrachloride	13.08	117	446334	24.563	ng	100
43) Cyclohexane	13.21	84	888269	49.040	ng	97
44) tert-Amyl Methyl Ether	13.55	73	1779035	53.376	ng	98
45) 1,2-Dichloropropane	13.77	63	320268	24.193	ng	100
46) Bromodichloromethane	13.96	83	438371	25.463	ng	99
47) Trichloroethene	14.02	130	302907	22.491	ng	99
48) 1,4-Dioxane	13.99	88	235431	24.713	ng	97
49) 2,2,4-Trimethylpentane...	14.09	57	1549837	24.820	ng	98
50) Methyl Methacrylate	14.22	100	242112	51.130	ng	93

Data File : I:\MS09\DATA\2022 04\14\04142201.D
 Acq On : 14 Apr 2022 00:21
 Sample : CCV R9041422 25ng
 Misc : S35-04132201/S35-04052201 (5/5)

Vial: 2
 Operator: SC
 Inst : MS09

Quant Time: Apr 14 08:21:09 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

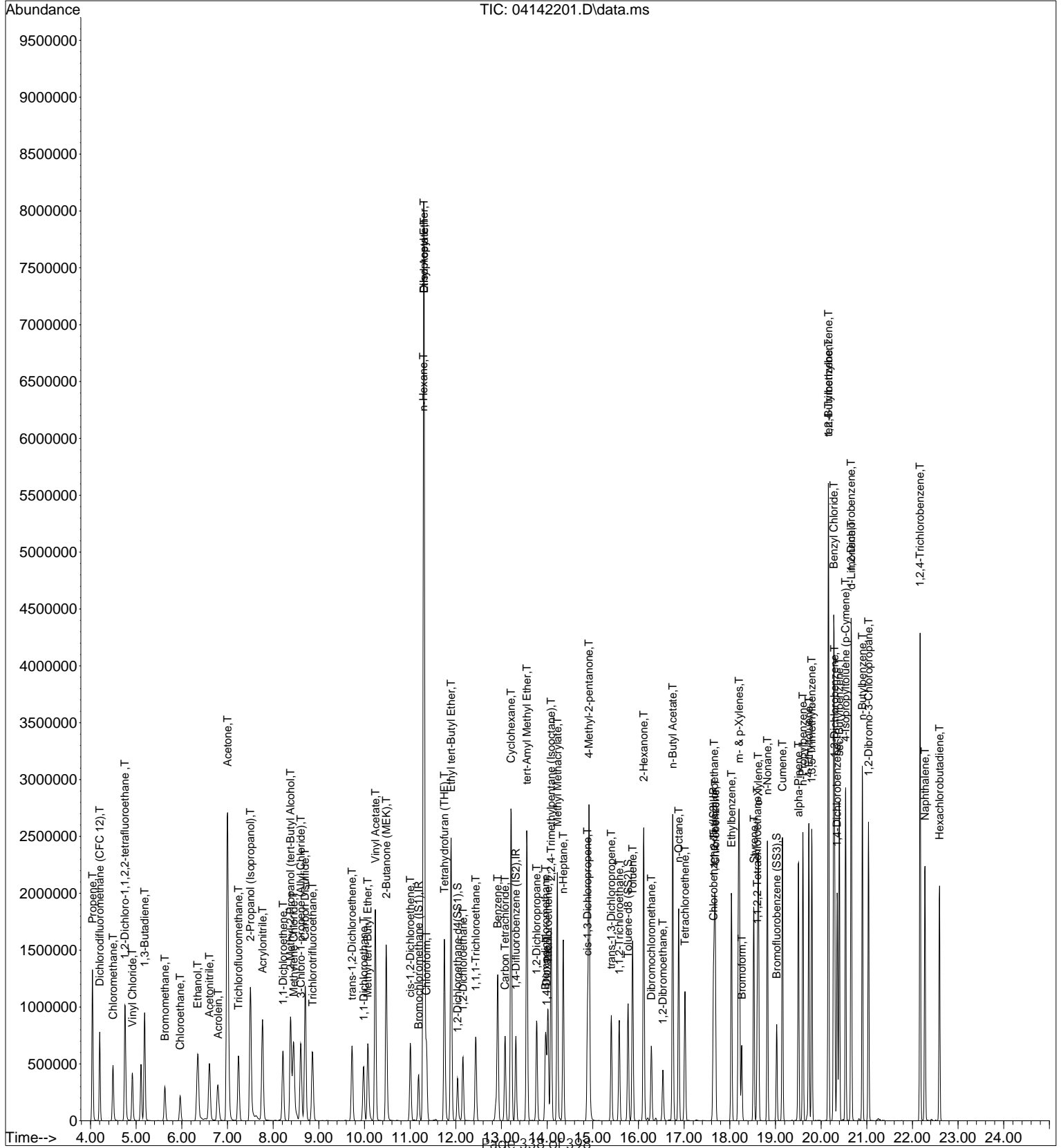
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.35	71	308775	25.031	ng	98
52) cis-1,3-Dichloropropene	14.88	75	508279	26.779	ng	100
53) 4-Methyl-2-pentanone	14.92	58	706968	52.861	ng	96
54) trans-1,3-Dichloropropene	15.41	75	477393	26.163	ng	100
55) 1,1,2-Trichloroethane	15.58	97	289227	23.850	ng	98
58) Toluene	15.87	91	1219882	21.861	ng	100
59) 2-Hexanone	16.11	43	2156168	50.156	ng	98
60) Dibromochloromethane	16.28	129	378459	24.245	ng	100
61) 1,2-Dibromoethane	16.54	107	343720	23.082	ng	100
62) n-Butyl Acetate	16.75	43	2395305	51.118	ng	98
63) n-Octane	16.88	57	330270	23.625	ng	98
64) Tetrachloroethene	17.02	166	334555	21.051	ng	100
65) Chlorobenzene	17.68	112	827733	22.042	ng	99
66) Ethylbenzene	18.03	91	1455935	22.924	ng	100
67) m- & p-Xylenes	18.20	91	2368476	46.409	ng	100
68) Bromoform	18.26	173	318536	23.592	ng	100
69) Styrene	18.53	104	872725	23.970	ng	99
70) o-Xylene	18.62	91	1199656	23.299	ng	99
71) n-Nonane	18.82	43	968727	24.511	ng	98
72) 1,1,2,2-Tetrachloroethane	18.60	83	542911	23.684	ng	99
74) Cumene	19.15	105	1488068	22.923	ng	99
75) alpha-Pinene	19.50	93	789637	25.651	ng	99
76) n-Propylbenzene	19.60	91	1874798	24.023	ng	99
77) 3-Ethyltoluene	19.73	105	1533811	No Calib		
78) 4-Ethyltoluene	19.73	105	1533811	24.389	ng	99
79) 1,3,5-Trimethylbenzene	19.79	105	1267981	23.737	ng	100
80) alpha-Methylstyrene	19.60	118	3024	No Calib	#	
81) 2-Ethyltoluene	20.66	105	36476	No Calib		
82) 1,2,4-Trimethylbenzene	20.16	105	1407406	25.566	ng	100
83) n-Decane	20.52	58	1274	No Calib	#	
84) Benzyl Chloride	20.28	91	2437235	56.902	ng	99
85) 1,3-Dichlorobenzene	20.29	146	741395	23.398	ng	100
86) 1,4-Dichlorobenzene	20.35	146	726363	22.644	ng	100
87) sec-Butylbenzene	20.40	105	1727526	23.991	ng	99
88) 4-Isopropyltoluene (p-...	20.54	119	1480129	24.226	ng	99
89) 1,2,3-Trimethylbenzene	20.40	105	1727526	No Calib		
90) 1,2-Dichlorobenzene	20.66	146	724271	23.626	ng	99
91) d-Limonene	20.66	68	569229	27.790	ng	99
92) 1,2-Dibromo-3-Chloropr...	21.04	157	590613	50.979	ng	92
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	22.17	180	1142497	44.696	ng	100
95) Naphthalene	22.28	128	1641022	23.683	ng	100
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	22.59	225	346241	20.384	ng	100
98) Cyclohexanone	18.62	55	1176	No Calib		
99) tert-Butylbenzene	20.16	119	1299446	24.550	ng	99
100) n-Butylbenzene	20.90	91	1574419	26.196	ng	99
101) 1,1,1,2-Tetrachloroethane	17.66	131	312291	22.778	ng	100

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

Data File : I:\MS09\DATA\2022 04\14\04142201.D
 Acq On : 14 Apr 2022 00:21
 Sample : CCV R9041422 25ng
 Misc : S35-04132201/S35-04052201 (5/5)

Vial: 2
 Operator: SC
 Inst : MS09

Quant Time: Apr 14 08:21:09 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2022 04\15\04152201.D
 Acq On : 15 Apr 2022 00:59
 Sample : CCV R9041522 25ng
 Misc : S35-04132201/S35-04052201 (5/5)

Vial: 2
 Operator: SC
 Inst : MS09

Quant Time: Apr 15 04:15:33 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

CG 4/15/22

4074 4/15/22

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	96	-0.02
2 T	Propene	1.725	1.632	5.4	96	-0.01
3 T	Dichlorodifluoromethane (CF	2.361	2.137	9.5	91	-0.01
4 T	Chloromethane	1.960	1.982	-1.1	96	-0.02
5 T	1,2-Dichloro-1,1,2,2-tetra	1.061	0.955	10.0	90	-0.02
6 T	Vinyl Chloride	1.640	1.614	1.6	95	-0.02
7 T	1,3-Butadiene	1.465	1.526	-4.2	96	-0.02
8 T	Bromomethane	0.837	0.820	2.0	93	-0.02
9 T	Chloroethane	0.750	0.710	5.3	93	-0.02
10 T	Ethanol	1.258	1.144	9.1	95	-0.09
11 T	Acetonitrile	3.156	2.994	5.1	95	-0.06
12 T	Acrolein	0.771	0.777	-0.8	93	-0.03
13 T	Acetone	0.991	0.913	7.9	94	-0.05
14 T	Trichlorofluoromethane	2.200	1.961	10.9	89	-0.02
15 T	2-Propanol (Isopropanol)	3.915	3.900	0.4	94	-0.08
16 T	Acrylonitrile	1.722	1.694	1.6	93	-0.06
17 T	1,1-Dichloroethene	0.987	0.922	6.6	90	-0.02
18 T	2-Methyl-2-Propanol (tert-B	2.506	2.704	-7.9	87	-0.06
19 T	Methylene Chloride	1.031	0.967	6.2	91	-0.03
20 T	3-Chloro-1-propene (Allyl C	2.316	2.269	2.0	94	-0.02
21 T	Trichlorotrifluoroethane	0.941	0.822	12.6	85	-0.02
22 T	Carbon Disulfide	3.468	3.540	-2.1	94	-0.02
23 T	trans-1,2-Dichloroethene	1.640	1.630	0.6	93	-0.02
24 T	1,1-Dichloroethane	2.011	1.908	5.1	93	-0.02
25 T	Methyl tert-Butyl Ether	2.741	2.471	9.9	87	-0.02
26 T	Vinyl Acetate	0.178	0.201	-12.9	91	-0.03
27 T	2-Butanone (MEK)	0.692	0.697	-0.7	91	-0.03
28 T	cis-1,2-Dichloroethene	1.646	1.588	3.5	93	-0.02
29 T	Diisopropyl Ether	0.955	1.006	-5.3	94	-0.02
30 T	Ethyl Acetate	0.494	0.539	-9.1	96	-0.03
31 T	n-Hexane	2.227	2.363	-6.1	96	0.00
32 T	Chloroform	1.933	1.806	6.6	91	-0.04
33 S	1,2-Dichloroethane-d4 (SS1)	1.912	1.971	-3.1	100	-0.02
34 T	Tetrahydrofuran (THF)	0.664	0.649	2.3	92	-0.02
35 T	Ethyl tert-Butyl Ether	1.276	1.287	-0.9	93	-0.02
36 T	1,2-Dichloroethane	1.706	1.619	5.1	92	-0.02
37 IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	99	-0.01
38 T	1,1,1-Trichloroethane	0.428	0.397	7.2	89	-0.01
39 T	Isopropyl Acetate	0.000	0.000	0.0	106	0.00
40 T	1-Butanol	0.000	0.000	0.0	93	0.00
41 T	Benzene	0.968	0.883	8.8	91	-0.01
42 T	Carbon Tetrachloride	0.372	0.352	5.4	89	-0.01
43 T	Cyclohexane	0.371	0.354	4.6	92	-0.01
44 T	tert-Amyl Methyl Ether	0.683	0.701	-2.6	94	-0.01
45 T	1,2-Dichloropropane	0.271	0.254	6.3	93	-0.01
46 T	Bromodichloromethane	0.353	0.342	3.1	91	-0.01
47 T	Trichloroethene	0.276	0.242	12.3	87	-0.01
48 T	1,4-Dioxane	0.195	0.185	5.1	89	-0.02
49 T	2,2,4-Trimethylpentane (Iso	1.279	1.191	6.9	93	-0.01
50 T	Methyl Methacrylate	0.097	0.097	0.0	88	-0.01
51 T	n-Heptane	0.253	0.241	4.7	92	0.00
52 T	cis-1,3-Dichloropropene	0.389	0.398	-2.3	91	-0.01
53 T	4-Methyl-2-pentanone	0.274	0.276	-0.7	93	-0.02
54 T	trans-1,3-Dichloropropene	0.374	0.387	-3.5	90	-0.01
55 T	1,1,2-Trichloroethane	0.248	0.229	7.7	89	0.00
56 IR	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	103	0.00
57 S	Toluene-d8 (SS2)	4.555	4.339	4.7	98	0.00
58 T	Toluene	4.188	3.588	14.3	90	-0.01
59 T	2-Hexanone	3.227	3.085	4.4	92	-0.02

Data File : I:\MS09\DATA\2022 04\15\04152201.D
 Acq On : 15 Apr 2022 00:59
 Sample : CCV R9041522 25ng
 Misc : S35-04132201/S35-04052201 (5/5)

Vial: 2
 Operator: SC
 Inst : MS09

Quant Time: Apr 15 04:15:33 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.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)
60 T	Dibromochloromethane	1.172	1.093	6.7	88	-0.01
61 T	1,2-Dibromoethane	1.118	1.000	10.6	88	-0.01
62 T	n-Butyl Acetate	3.517	3.465	1.5	93	-0.01
63 T	n-Octane	1.049	0.942	10.2	91	0.00
64 T	Tetrachloroethene	1.193	0.980	17.9	83	0.00
65 T	Chlorobenzene	2.819	2.406	14.7	89	0.00
66 T	Ethylbenzene	4.767	4.257	10.7	89	0.00
67 T	m- & p-Xylenes	3.831	3.466	9.5	90	-0.01
68 T	Bromoform	1.013	0.942	7.0	84	0.00
69 T	Styrene	2.733	2.547	6.8	87	0.00
70 T	o-Xylene	3.865	3.447	10.8	89	-0.01
71 T	n-Nonane	2.966	2.721	8.3	90	0.00
72 T	1,1,2,2-Tetrachloroethane	1.721	1.562	9.2	92	0.00
73 S	Cumofluorobenzene (SS3)	1.604	1.371	14.5	87	0.00
74 T	Cumene	4.872	4.297	11.8	89	0.00
75 T	alpha-Pinene	2.311	2.184	5.5	89	0.00
76 T	n-Propylbenzene	5.858	5.604	4.3	94	0.00
77 T	3-Ethyltoluene	0.000	0.000	0.0	93	0.00
78 T	4-Ethyltoluene	4.720	4.520	4.2	93	0.00
79 T	1,3,5-Trimethylbenzene	4.009	3.831	4.4	93	0.00
80 T	alpha-Methylstyrene	0.000	0.000	0.0	96	0.00
81 T	2-Ethyltoluene	0.000	0.000	0.0	89	0.00
82 T	1,2,4-Trimethylbenzene	4.132	4.143	-0.3	93	0.00
83 T	n-Decane	0.000	0.000	0.0	349#	0.00
84 T	Benzyl Chloride	3.215	3.571	-11.1	92	-0.01
85 T	1,3-Dichlorobenzene	2.378	2.187	8.0	89	-0.01
86 T	1,4-Dichlorobenzene	2.408	2.076	13.8	86	0.00
87 T	sec-Butylbenzene	5.405	4.943	8.5	88	0.00
88 T	4-Isopropyltoluene (p-Cymen	4.586	4.220	8.0	88	0.00
89 T	1,2,3-Trimethylbenzene	0.000	0.000	0.0	88	0.00
90 T	1,2-Dichlorobenzene	2.301	2.051	10.9	87	0.00
91 T	d-Limonene	1.537	1.593	-3.6	89	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.870	0.831	4.5	87	0.00
93 T	n-Undecane	0.000	0.000	0.0	0#	-21.34#
94 T	1,2,4-Trichlorobenzene	1.919	1.675	12.7	85	0.00
95 T	Naphthalene	5.201	4.678	10.1	83	0.00
96 T	n-Dodecane	0.000	0.000	0.0	0#	-22.26#
97 T	Hexachlorobutadiene	1.275	1.006	21.1	79	0.00
98 T	Cyclohexanone	0.000	0.000	0.0	85	0.00
99 T	tert-Butylbenzene	3.973	3.814	4.0	93	0.00
100 T	n-Butylbenzene	4.511	4.170	7.6	89	-0.01
101 T	1,1,1,2-Tetrachloroethane	1.029	0.911	11.5	88	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data File : I:\MS09\DATA\2022 04\15\04152201.D
 Acq On : 15 Apr 2022 00:59
 Sample : CCV R9041522 25ng
 Misc : S35-04132201/S35-04052201 (5/5)

Vial: 2
 Operator: SC
 Inst : MS09

Quant Time: Apr 15 04:15:33 2022

Quant Method : I:\MS09\Methods\R9040722.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

CG 4/15/22

QLast Update : Thu Apr 07 16:31:14 2022

IDA 4/15/22

Response via : Initial Calibration

DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.19	130	150178	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.32	114	654117	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.64	54	177665	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.04	65	296021	12.886	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	103.12%	
57) Toluene-d8 (SS2)	15.77	98	770932	11.909	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	95.28%	
73) Bromofluorobenzene (SS3)	19.03	174	243556	10.682	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	85.44%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.05	42	509742	24.594	ng	99
3) Dichlorodifluoromethan...	4.21	85	674009	23.759	ng	100
4) Chloromethane	4.50	50	607116	25.782	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	4.76	135	309938	24.310	ng	100
6) Vinyl Chloride	4.92	62	504037	25.587	ng	100
7) 1,3-Butadiene	5.19	54	476808	27.084	ng	99
8) Bromomethane	5.63	94	251123	24.958	ng	100
9) Chloroethane	5.97	64	217503	24.144	ng	100
10) Ethanol	6.35	45	1244187	82.299	ng	100
11) Acetonitrile	6.60	41	836212	22.052	ng	99
12) Acrolein	6.79	56	466488	50.344	ng	100
13) Acetone	7.00	58	1423319	119.598	ng	98
14) Trichlorofluoromethane	7.25	101	606756	22.954	ng	100
15) 2-Propanol (Isopropanol)	7.50	45	2365964	50.296	ng	100
16) Acrylonitrile	7.77	53	1032631	49.925	ng	100
17) 1,1-Dichloroethene	8.22	96	296425	24.998	ng	96
18) 2-Methyl-2-Propanol (t...	8.38	59	1705426	56.652	ng	99
19) Methylene Chloride	8.45	84	301992	24.375	ng	96
20) 3-Chloro-1-propene (Al...	8.61	41	715524	25.712	ng	99
21) Trichlorotrifluoroethane	8.86	151	266482	23.565	ng	94
22) Carbon Disulfide	8.70	76	2232570	53.579	ng	100
23) trans-1,2-Dichloroethene	9.73	61	518982	26.341	ng	98
24) 1,1-Dichloroethane	9.98	63	601717	24.908	ng	100
25) Methyl tert-Butyl Ether	10.07	73	779338	23.664	ng	99
26) Vinyl Acetate	10.24	86	205679	96.104	ng	# 92
27) 2-Butanone (MEK)	10.48	72	431157	51.862	ng	95
28) cis-1,2-Dichloroethene	11.00	61	496101	25.088	ng	98
29) Diisopropyl Ether	11.30	87	640424	55.795	ng	# 94
30) Ethyl Acetate	11.31	61	660648	111.266	ng	99
31) n-Hexane	11.29	57	745365	27.854	ng	100
32) Chloroform	11.36	83	580328	24.993	ng	100
34) Tetrahydrofuran (THF)	11.75	72	384196	48.152	ng	97
35) Ethyl tert-Butyl Ether	11.90	87	811756	52.932	ng	98
36) 1,2-Dichloroethane	12.16	62	515516	25.149	ng	99
38) 1,1,1-Trichloroethane	12.44	97	539499	24.089	ng	98
39) Isopropyl Acetate	13.32	61	23184	No Calib		
40) 1-Butanol	12.90	56	17712	No Calib		
41) Benzene	12.92	78	1201267	23.723	ng	100
42) Carbon Tetrachloride	13.08	117	483942	24.851	ng	100
43) Cyclohexane	13.21	84	957935	49.350	ng	98
44) tert-Amyl Methyl Ether	13.55	73	1916702	53.661	ng	98
45) 1,2-Dichloropropane	13.77	63	342588	24.148	ng	99
46) Bromodichloromethane	13.96	83	469272	25.435	ng	100
47) Trichloroethene	14.02	130	326760	22.640	ng	100
48) 1,4-Dioxane	13.99	88	251825	24.666	ng	98
49) 2,2,4-Trimethylpentane...	14.09	57	1651950	24.687	ng	98
50) Methyl Methacrylate	14.22	100	263275	51.881	ng	95
51) n-Heptane	14.35	71	331330	25.064	ng	99
52) cis-1,3-Dichloropropene	14.88	75	547167	26.901	ng	100
53) 4-Methyl-2-pentanone	14.92	58	750999	52.398	ng	98
54) trans-1,3-Dichloropropene	15.40	75	511810	26.173	ng	100
55) 1,1,2-Trichloroethane	15.58	97	211143	23.942	ng	99

Data File : I:\MS09\DATA\2022 04\15\04152201.D Vial: 2
 Acq On : 15 Apr 2022 00:59 Operator: SC
 Sample : CCV R9041522 25ng Inst : MS09
 Misc : S35-04132201/S35-04052201 (5/5)

Quant Time: Apr 15 04:15:33 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

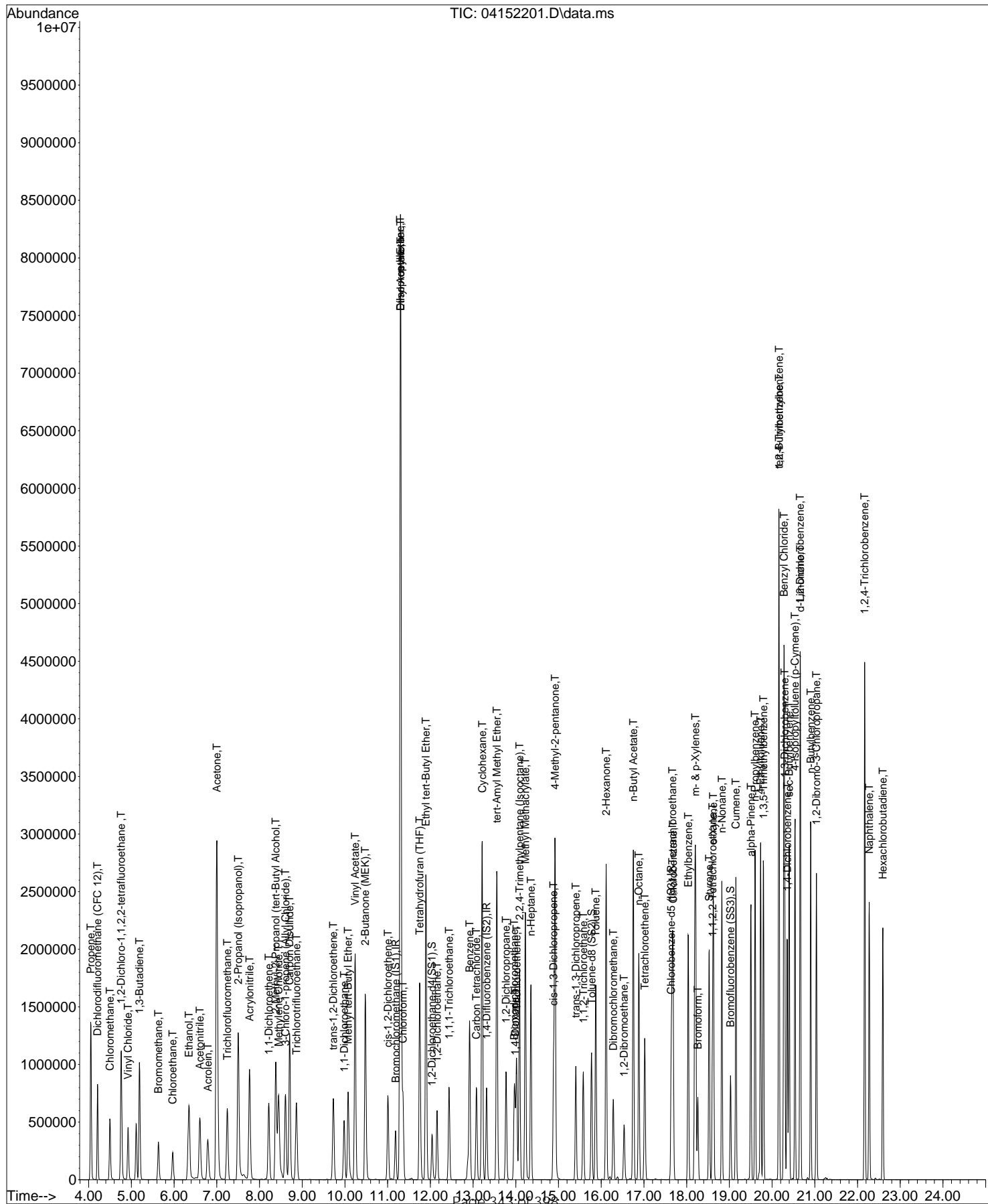
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
58) Toluene	15.87	91	1313009	22.057	ng	100
59) 2-Hexanone	16.11	43	2247110	48.999	ng	99
60) Dibromochloromethane	16.28	129	407889	24.494	ng	100
61) 1,2-Dibromoethane	16.53	107	369382	23.252	ng	100
62) n-Butyl Acetate	16.75	43	2511381	50.239	ng	99
63) n-Octane	16.88	57	351502	23.569	ng	98
64) Tetrachloroethene	17.02	166	362026	21.353	ng	100
65) Chlorobenzene	17.68	112	889176	22.196	ng	99
66) Ethylbenzene	18.04	91	1557866	22.993	ng	99
67) m- & p-Xylenes	18.20	91	2536995	46.598	ng	99
68) Bromoform	18.26	173	348216	24.176	ng	100
69) Styrene	18.53	104	932181	24.000	ng	99
70) o-Xylene	18.62	91	1273653	23.187	ng	99
71) n-Nonane	18.82	43	1005477	23.847	ng	99
72) 1,1,2,2-Tetrachloroethane	18.61	83	577321	23.608	ng	99
74) Cumene	19.15	105	1588004	22.931	ng	100
75) alpha-Pinene	19.50	93	837969	25.517	ng	99
76) n-Propylbenzene	19.60	91	2090810	25.113	ng	99
77) 3-Ethyltoluene	19.73	105	1702594	No Calib		
78) 4-Ethyltoluene	19.73	105	1702594	25.377	ng	100
79) 1,3,5-Trimethylbenzene	19.80	105	1415573	24.841	ng	100
80) alpha-Methylstyrene	19.60	118	3346	No Calib	#	
81) 2-Ethyltoluene	20.66	105	38140	No Calib		
82) 1,2,4-Trimethylbenzene	20.16	105	1516120	25.816	ng	100
83) n-Decane	20.52	58	1217	No Calib	#	
84) Benzyl Chloride	20.28	91	2614076	57.209	ng	100
85) 1,3-Dichlorobenzene	20.29	146	808078	23.906	ng	100
86) 1,4-Dichlorobenzene	20.36	146	767333	22.424	ng	100
87) sec-Butylbenzene	20.40	105	1826765	23.780	ng	99
88) 4-Isopropyltoluene (p-...)	20.54	119	1559407	23.926	ng	100
89) 1,2,3-Trimethylbenzene	20.40	105	1826765	No Calib		
90) 1,2-Dichlorobenzene	20.66	146	765195	23.398	ng	100
91) d-Limonene	20.66	68	594352	27.199	ng	99
92) 1,2-Dibromo-3-Chloropr...	21.04	157	590794	47.801	ng	93
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	22.17	180	1214314	44.531	ng	100
95) Naphthalene	22.28	128	1728862	23.389	ng	100
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	22.59	225	368034	20.310	ng	100
98) Cyclohexanone	18.62	55	1176	No Calib		
99) tert-Butylbenzene	20.16	119	1409289	24.958	ng	100
100) n-Butylbenzene	20.90	91	1540860	24.033	ng	99
101) 1,1,1,2-Tetrachloroethane	17.66	131	336619	23.015	ng	100

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

Data File : I:\MS09\DATA\2022 04\15\04152201.D
Acq On : 15 Apr 2022 00:59
Sample : CCV R9041522 25ng
Misc : S35-04132201/S35-04052201 (5/5)

Vial: 2
Operator: SC
Inst : MS09

Quant Time: Apr 15 04:15:33 2022
Quant Method : I:\MS09\Methods\R9040722.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Apr 07 16:31:14 2022
Response via : Initial Calibration
DataAcq Meth:TO15.M



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: NYS Department of Environmental Conservation ALS Project ID: P2201602
Client Project ID: Armonk PWS / 60628211

Internal Standard Area and RT Summary

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Lab File ID: 04142201.D
Analyst: Simon Cao Date Analyzed: 4/14/22
Sample Type: 6.0 L Summa Canister(s) Time Analyzed: 00:21
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
24 Hour Standard	140516	11.19	610377	13.32	166540	17.64
Upper Limit	196722	11.52	854528	13.65	233156	17.97
Lower Limit	84310	10.86	366226	12.99	99924	17.31

Client Sample ID		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
01	Method Blank	119674	11.17	533292	13.30	138356	17.64
02	Lab Control Sample	133884	11.18	581139	13.32	158669	17.64
03	Duplicate Lab Control Sample	140780	11.19	601587	13.32	161704	17.64
04	Armonk-OA-040722	164445	11.16	714159	13.31	173503	17.64
05	Building-1-SS1-040722	151761	11.17	667294	13.31	172528	17.64
06	Building-1-IA-040722	148688	11.17	661464	13.31	170007	17.64
07	Building-1-SS2-040722	146351	11.17	655278	13.31	168122	17.64
08	Building-2-SS1-040722	143007	11.17	633662	13.31	165284	17.64
09	Building-2-IA-040722	146438	11.17	641196	13.31	167931	17.64
10	Building-2-SS2-040722	141728	11.17	627452	13.31	161961	17.64
11	Building-3-IA-040722	140562	11.17	623491	13.31	162624	17.64
12	Armonk-IA-DUP-040722	141971	11.17	627259	13.31	166284	17.64
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 1

Client: NYS Department of Environmental Conservation ALS Project ID: P2201602
 Client Project ID: Armonk PWS / 60628211

Internal Standard Area and RT Summary

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Lab File ID: 04152201.D
 Analyst: Simon Cao Date Analyzed: 4/15/22
 Sample Type: 6.0 L Summa Canister(s) Time Analyzed: 00:59
 Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
24 Hour Standard	150178	11.19	654117	13.32	177665	17.64
Upper Limit	210249	11.52	915764	13.65	248731	17.97
Lower Limit	90107	10.86	392470	12.99	106599	17.31

Client Sample ID		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
01	Method Blank	128916	11.17	580665	13.30	151148	17.64
02	Lab Control Sample	145061	11.19	626906	13.32	169059	17.64
03	Duplicate Lab Control Sample	146797	11.18	636065	13.32	170815	17.64
04	Building-2-IA-040722 (Dilution)	133809	11.16	589859	13.30	147784	17.64
05	Building-3-IA-040722 (Dilution)	120680	11.17	536974	13.31	145036	17.64
06	Armonk-IA-DUP-040722 (Dilution)	119877	11.17	533294	13.31	145768	17.64
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.

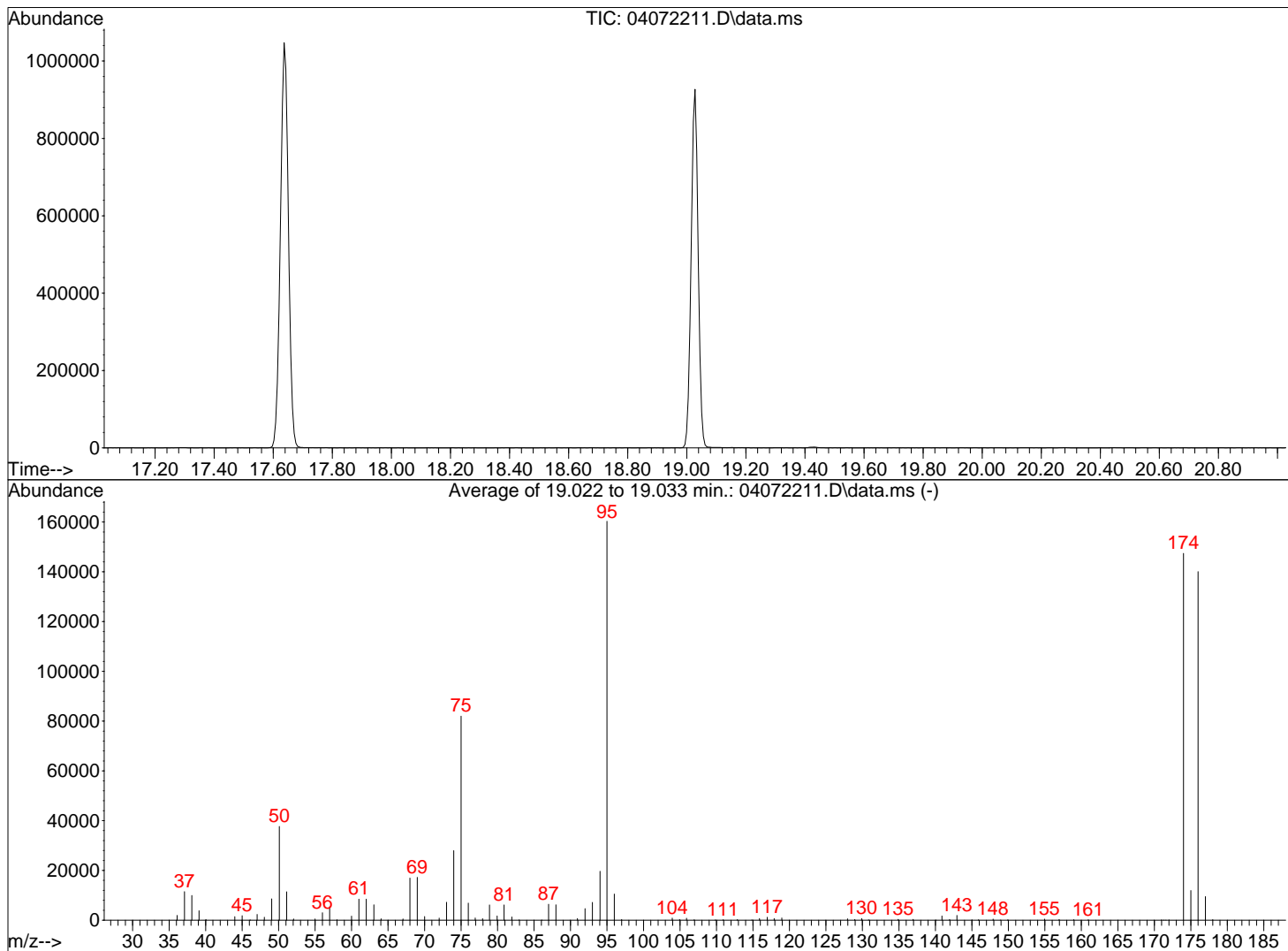
I = Internal standard not within the specified limits.

Data Path : I:\MS09\DATA\2022 04\07\
 Data File : 04072211.D
 Acq On : 7 Apr 2022 11:37
 Operator : SC
 Sample : 12.5ng TO-15 BFB STD
 Misc : S35-03082201
 ALS Vial : 2 Sample Multiplier: 1

4/7/22

Integration File: LSCINT.P

Method : I:\MS09\Methods\R9040722.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Apr 07 15:24:56 2022



AutoFind: Scans 2684, 2685, 2686; Background Corrected with Scan 2676

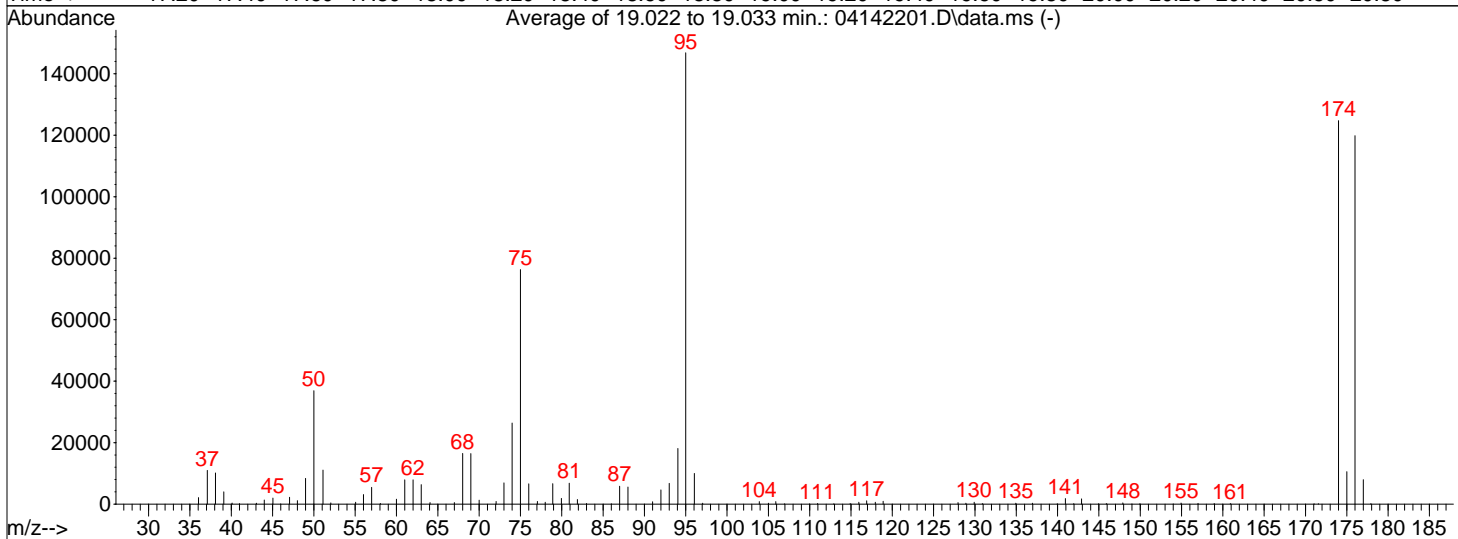
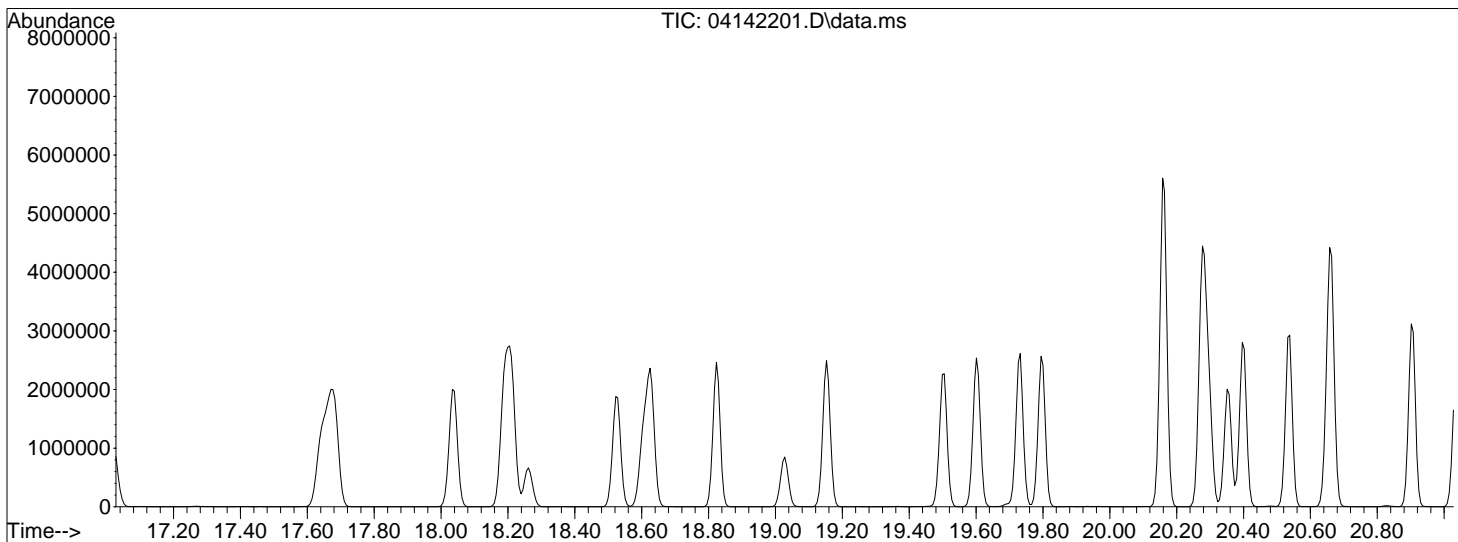
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.5	37707	PASS
75	95	30	66	51.1	81976	PASS
95	95	100	100	100.0	160299	PASS
96	95	5	9	6.5	10495	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	91.9	147392	PASS
175	174	4	9	8.1	11942	PASS
176	174	93	101	95.0	140048	PASS
177	176	5	9	6.8	9498	PASS

Data Path : I:\MS09\DATA\2022 04\14\
 Data File : 04142201.D
 Acq On : 14 Apr 2022 00:21
 Operator : SC
 Sample : CCV R9041422 25ng
 Misc : S35-04132201/S35-04052201 (5/5)
 ALS Vial : 2 Sample Multiplier: 1

4/14/22

Integration File: LSCINT.P

Method : I:\MS09\Methods\R9040722.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Apr 07 16:31:14 2022



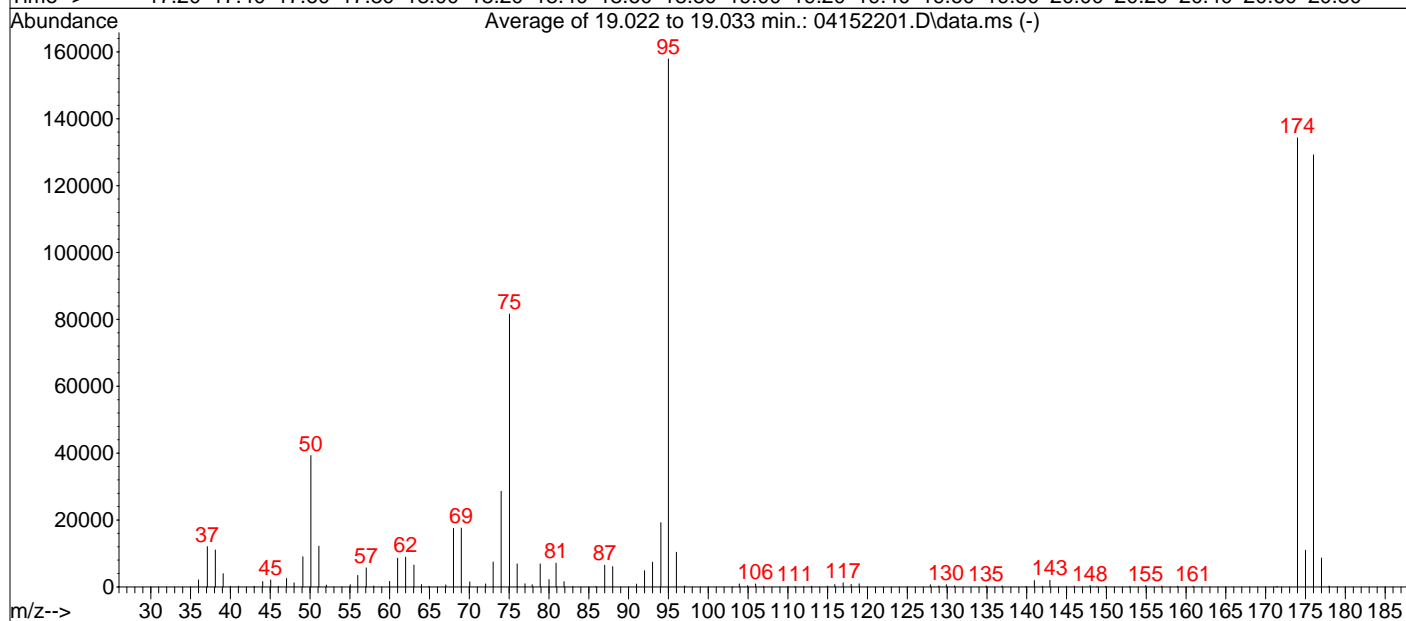
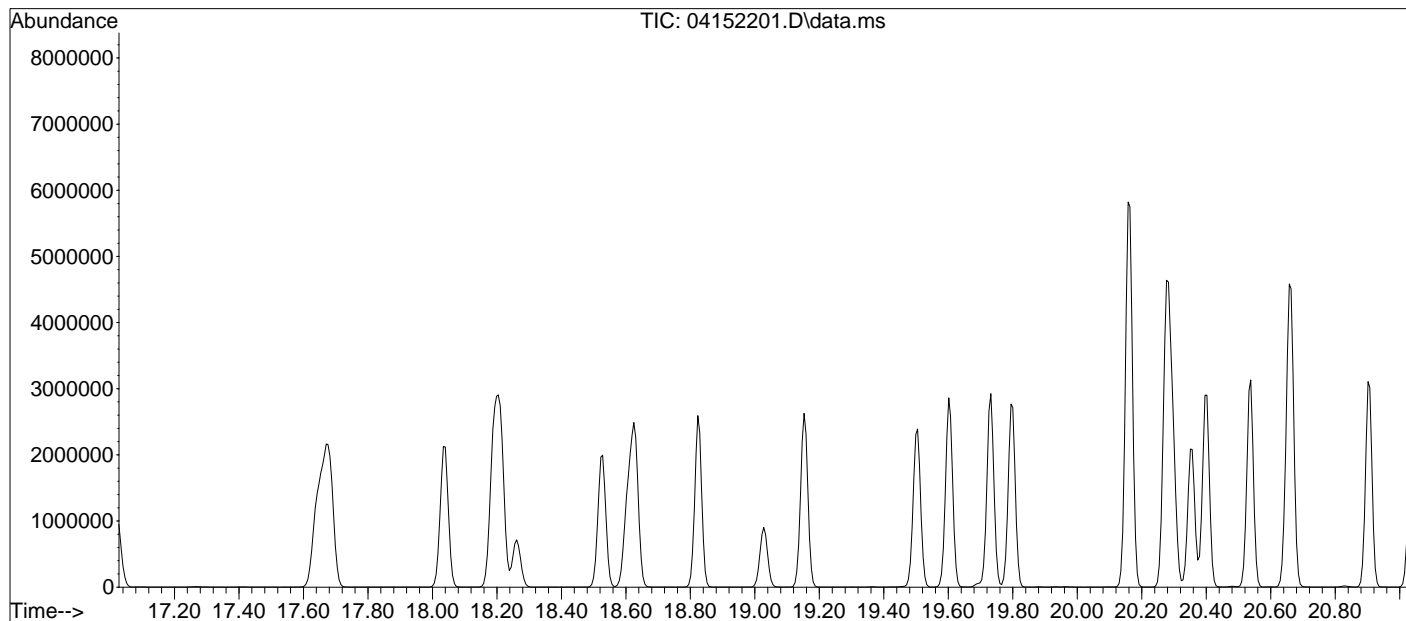
AutoFind: Scans 2684, 2685, 2686; Background Corrected with Scan 2677

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	25.1	36896	PASS
75	95	30	66	52.0	76299	PASS
95	95	100	100	100.0	146816	PASS
96	95	5	9	6.8	9993	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	85.0	124765	PASS
175	174	4	9	8.5	10581	PASS
176	174	93	101	96.1	119883	PASS
177	176	5	9	6.6	7957	PASS

Data Path : I:\MS09\DATA\2022 04\15\
 Data File : 04152201.D
 Acq On : 15 Apr 2022 00:59
 Operator : SC
 Sample : CCV R9041522 25ng
 Misc : S35-04132201/S35-04052201 (5/5)
 ALS Vial : 2 Sample Multiplier: 1

Integration File: LSCINT.P

Method : I:\MS09\Methods\R9040722.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Apr 07 16:31:14 2022



AutoFind: Scans 2684, 2685, 2686; Background Corrected with Scan 2677

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	24.9	39275	PASS
75	95	30	66	51.7	81613	PASS
95	95	100	100	100.0	157867	PASS
96	95	5	9	6.6	10358	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	85.1	134291	PASS
175	174	4	9	8.2	10949	PASS
176	174	93	101	96.2	129219	PASS
177	176	5	9	6.7	8664	PASS

CG 4/15/22

USA 4/15/22

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: NYS Department of Environmental Conservation
Client Sample ID: Method Blank
Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602
 ALS Sample ID: P220414-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/14/22
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	ND	0.52	ND	0.30	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.53	ND	0.11	
74-87-3	Chloromethane	ND	0.21	ND	0.10	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.54	ND	0.077	
75-01-4	Vinyl Chloride	ND	0.11	ND	0.043	
106-99-0	1,3-Butadiene	ND	0.21	ND	0.095	
74-83-9	Bromomethane	ND	0.21	ND	0.054	
75-00-3	Chloroethane	ND	0.21	ND	0.080	
64-17-5	Ethanol	ND	5.0	ND	2.7	
75-05-8	Acetonitrile	ND	1.0	ND	0.60	
107-02-8	Acrolein	ND	1.0	ND	0.44	
67-64-1	Acetone	ND	5.2	ND	2.2	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.52	ND	0.093	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.0	ND	0.41	
107-13-1	Acrylonitrile	ND	1.0	ND	0.46	
75-35-4	1,1-Dichloroethene	ND	0.11	ND	0.028	
75-09-2	Methylene Chloride	ND	0.52	ND	0.15	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.53	ND	0.17	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.54	ND	0.070	
75-15-0	Carbon Disulfide	ND	1.1	ND	0.35	
156-60-5	trans-1,2-Dichloroethene	ND	0.11	ND	0.028	
75-34-3	1,1-Dichloroethane	ND	0.11	ND	0.027	
1634-04-4	Methyl tert-Butyl Ether	ND	0.53	ND	0.15	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
78-93-3	2-Butanone (MEK)	ND	1.0	ND	0.34	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3

Client: NYS Department of Environmental Conservation

Client Sample ID: Method Blank

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P220414-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/14/22

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.11	ND	0.028	
141-78-6	Ethyl Acetate	ND	2.1	ND	0.58	
110-54-3	n-Hexane	ND	0.53	ND	0.15	
67-66-3	Chloroform	ND	0.11	ND	0.023	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	ND	0.34	
107-06-2	1,2-Dichloroethane	ND	0.11	ND	0.027	
71-55-6	1,1,1-Trichloroethane	ND	0.11	ND	0.020	
71-43-2	Benzene	ND	0.11	ND	0.034	
56-23-5	Carbon Tetrachloride	ND	0.11	ND	0.017	
110-82-7	Cyclohexane	ND	1.1	ND	0.32	
78-87-5	1,2-Dichloropropane	ND	0.11	ND	0.024	
75-27-4	Bromodichloromethane	ND	0.11	ND	0.016	
79-01-6	Trichloroethene	ND	0.11	ND	0.020	
123-91-1	1,4-Dioxane	ND	0.52	ND	0.14	
80-62-6	Methyl Methacrylate	ND	1.1	ND	0.27	
142-82-5	n-Heptane	ND	0.53	ND	0.13	
10061-01-5	cis-1,3-Dichloropropene	ND	0.53	ND	0.12	
108-10-1	4-Methyl-2-pentanone	ND	1.1	ND	0.27	
10061-02-6	trans-1,3-Dichloropropene	ND	0.51	ND	0.11	
79-00-5	1,1,2-Trichloroethane	ND	0.11	ND	0.020	
108-88-3	Toluene	ND	0.52	ND	0.14	
591-78-6	2-Hexanone	ND	1.1	ND	0.27	
124-48-1	Dibromochloromethane	ND	0.11	ND	0.013	
106-93-4	1,2-Dibromoethane	ND	0.11	ND	0.014	
123-86-4	n-Butyl Acetate	ND	1.1	ND	0.23	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3 of 3

Client: NYS Department of Environmental Conservation

Client Sample ID: Method Blank

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P220414-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/14/22

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.53	ND	0.11	
127-18-4	Tetrachloroethene	ND	0.11	ND	0.016	
108-90-7	Chlorobenzene	ND	0.52	ND	0.11	
100-41-4	Ethylbenzene	ND	0.52	ND	0.12	
179601-23-1	m,p-Xylenes	ND	1.1	ND	0.25	
75-25-2	Bromoform	ND	0.52	ND	0.050	
100-42-5	Styrene	ND	0.52	ND	0.12	
95-47-6	o-Xylene	ND	0.52	ND	0.12	
111-84-2	n-Nonane	ND	0.52	ND	0.099	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.11	ND	0.016	
98-82-8	Cumene	ND	0.52	ND	0.11	
80-56-8	alpha-Pinene	ND	0.54	ND	0.097	
103-65-1	n-Propylbenzene	ND	0.53	ND	0.11	
622-96-8	4-Ethyltoluene	ND	0.53	ND	0.11	
108-67-8	1,3,5-Trimethylbenzene	ND	0.52	ND	0.11	
95-63-6	1,2,4-Trimethylbenzene	ND	0.52	ND	0.11	
100-44-7	Benzyl Chloride	ND	1.1	ND	0.21	
541-73-1	1,3-Dichlorobenzene	ND	0.52	ND	0.087	
106-46-7	1,4-Dichlorobenzene	ND	0.52	ND	0.087	
95-50-1	1,2-Dichlorobenzene	ND	0.53	ND	0.088	
5989-27-5	d-Limonene	ND	0.52	ND	0.093	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ND	0.10	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ND	0.13	
91-20-3	Naphthalene	ND	0.52	ND	0.099	
87-68-3	Hexachlorobutadiene	ND	0.52	ND	0.049	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Data File : I:\MS09\DATA\2022 04\14\04142203.D
 Acq On : 14 Apr 2022 1:27
 Sample : MB R9041422 1000mL
 Misc : S35-04132201

Vial: 2
 Operator: SC
 Inst : MS09

Quant Time: Apr 14 08:23:33 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

4/14/22

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	11.17	130	119674	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	13.30	114	533292	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.64	54	138356	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.03	65	238869	13.049	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery	=	104.40%	
57) Toluene-d8 (SS2)	15.77	98	627604	12.449	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	99.60%	
73) Bromofluorobenzene (SS3)	19.03	174	176661	9.950	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	79.60%	

Target Compounds

						Qvalue
2) Propene	4.11	42	351	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	6.34	45	11941	0.991	ng	87
11) Acetonitrile	6.64	41	108	N.D.		
12) Acrolein	6.81	56	60	N.D.		
13) Acetone	7.05	58	3378	0.356	ng	# 70
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) 2-Propanol (Isopropanol)	7.57	45	379	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	0.00	84	0	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	0.00	76	0	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	13.30	61	18978	No	Calib	
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	12.92	78	1088	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	13.31	84	378	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\2022 04\14\04142203.D
 Acq On : 14 Apr 2022 1:27
 Sample : MB R9041422 1000mL
 Misc : S35-04132201

Vial: 2
 Operator: SC
 Inst : MS09

Quant Time: Apr 14 08:23:33 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

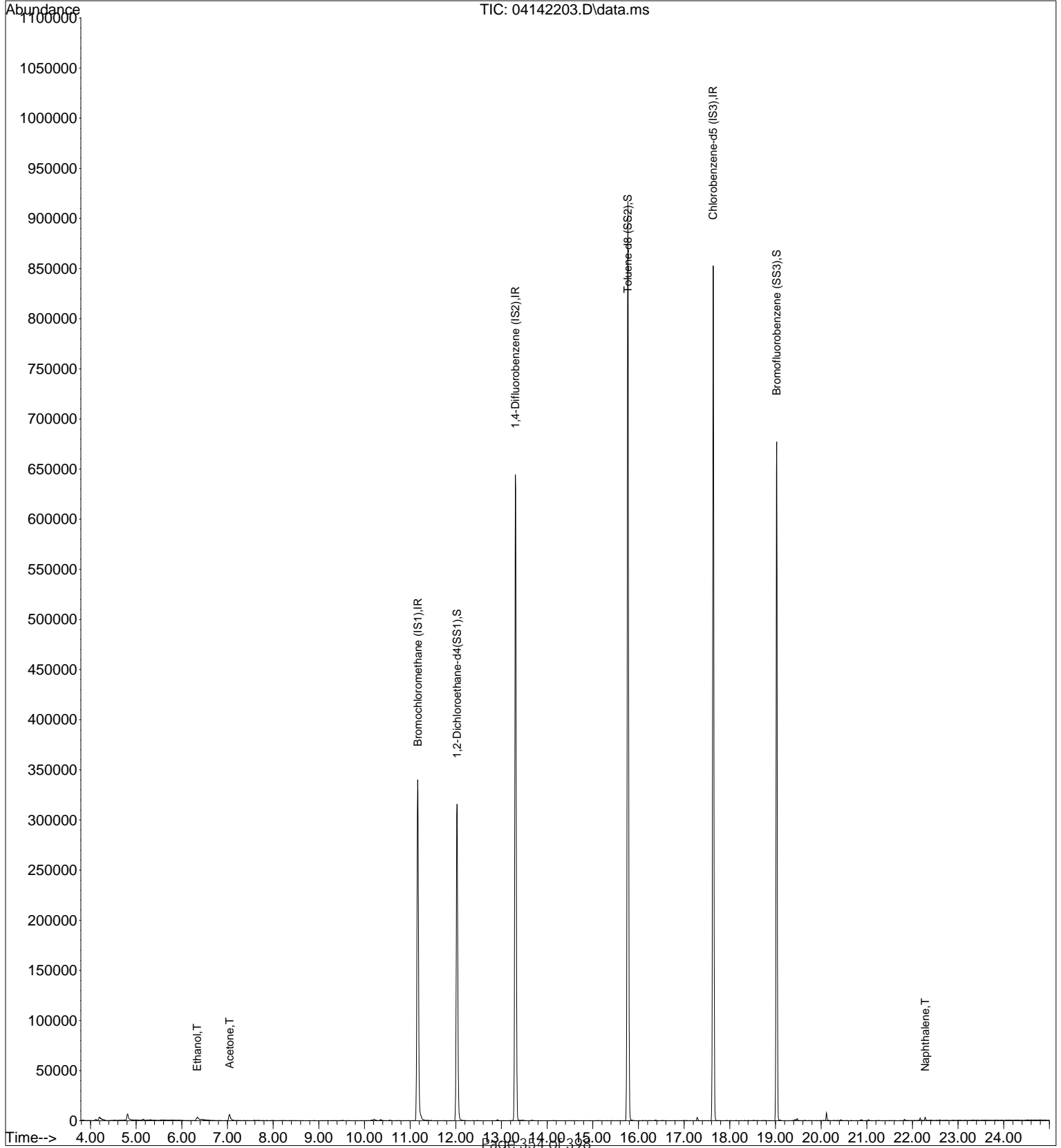
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	15.87	91	294	N.D.		
59) 2-Hexanone	16.15	43	246	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	18.20	91	122	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	19.02	105	355	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	0.00	91	0	N.D.		
77) 3-Ethyltoluene	19.73	105	110	No Calib	#	
78) 4-Ethyltoluene	19.73	105	110	N.D.		
79) 1,3,5-Trimethylbenzene	19.73	105	110	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.87	105	474	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.16	105	180	N.D.		
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	20.28	91	384	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	20.16	105	123	N.D.		
88) 4-Isopropyltoluene (p-...	20.53	119	194	N.D.		
89) 1,2,3-Trimethylbenzene	20.16	105	123	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...	21.04	157	283	N.D.		
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	22.17	180	1012	N.D.		
95) Naphthalene	22.28	128	3482	0.060 ng		87
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\2022 04\14\04142203.D
Acq On : 14 Apr 2022 1:27
Sample : MB R9041422 1000mL
Misc : S35-04132201

Vial: 2
Operator: SC
Inst : MS09

Quant Time: Apr 14 08:23:33 2022
Quant Method : I:\MS09\Methods\R9040722.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Apr 07 16:31:14 2022
Response via : Initial Calibration
DataAcq Meth:TO15.M



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: NYS Department of Environmental Conservation

Client Sample ID: Method Blank

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P220415-MB

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: NA

Analyst: Simon Cao

Date Analyzed: 4/15/22

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	ND	0.52	ND	0.30	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.53	ND	0.11	
74-87-3	Chloromethane	ND	0.21	ND	0.10	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.54	ND	0.077	
75-01-4	Vinyl Chloride	ND	0.11	ND	0.043	
106-99-0	1,3-Butadiene	ND	0.21	ND	0.095	
74-83-9	Bromomethane	ND	0.21	ND	0.054	
75-00-3	Chloroethane	ND	0.21	ND	0.080	
64-17-5	Ethanol	ND	5.0	ND	2.7	
75-05-8	Acetonitrile	ND	1.0	ND	0.60	
107-02-8	Acrolein	ND	1.0	ND	0.44	
67-64-1	Acetone	ND	5.2	ND	2.2	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.52	ND	0.093	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.0	ND	0.41	
107-13-1	Acrylonitrile	ND	1.0	ND	0.46	
75-35-4	1,1-Dichloroethene	ND	0.11	ND	0.028	
75-09-2	Methylene Chloride	ND	0.52	ND	0.15	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.53	ND	0.17	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.54	ND	0.070	
75-15-0	Carbon Disulfide	ND	1.1	ND	0.35	
156-60-5	trans-1,2-Dichloroethene	ND	0.11	ND	0.028	
75-34-3	1,1-Dichloroethane	ND	0.11	ND	0.027	
1634-04-4	Methyl tert-Butyl Ether	ND	0.53	ND	0.15	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
78-93-3	2-Butanone (MEK)	ND	1.0	ND	0.34	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3

Client: NYS Department of Environmental Conservation

Client Sample ID: Method Blank

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P220415-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/15/22

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.11	ND	0.028	
141-78-6	Ethyl Acetate	ND	2.1	ND	0.58	
110-54-3	n-Hexane	ND	0.53	ND	0.15	
67-66-3	Chloroform	ND	0.11	ND	0.023	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	ND	0.34	
107-06-2	1,2-Dichloroethane	ND	0.11	ND	0.027	
71-55-6	1,1,1-Trichloroethane	ND	0.11	ND	0.020	
71-43-2	Benzene	ND	0.11	ND	0.034	
56-23-5	Carbon Tetrachloride	ND	0.11	ND	0.017	
110-82-7	Cyclohexane	ND	1.1	ND	0.32	
78-87-5	1,2-Dichloropropane	ND	0.11	ND	0.024	
75-27-4	Bromodichloromethane	ND	0.11	ND	0.016	
79-01-6	Trichloroethene	ND	0.11	ND	0.020	
123-91-1	1,4-Dioxane	ND	0.52	ND	0.14	
80-62-6	Methyl Methacrylate	ND	1.1	ND	0.27	
142-82-5	n-Heptane	ND	0.53	ND	0.13	
10061-01-5	cis-1,3-Dichloropropene	ND	0.53	ND	0.12	
108-10-1	4-Methyl-2-pentanone	ND	1.1	ND	0.27	
10061-02-6	trans-1,3-Dichloropropene	ND	0.51	ND	0.11	
79-00-5	1,1,2-Trichloroethane	ND	0.11	ND	0.020	
108-88-3	Toluene	ND	0.52	ND	0.14	
591-78-6	2-Hexanone	ND	1.1	ND	0.27	
124-48-1	Dibromochloromethane	ND	0.11	ND	0.013	
106-93-4	1,2-Dibromoethane	ND	0.11	ND	0.014	
123-86-4	n-Butyl Acetate	ND	1.1	ND	0.23	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3 of 3

Client: NYS Department of Environmental Conservation

Client Sample ID: Method Blank

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P220415-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/15/22

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.53	ND	0.11	
127-18-4	Tetrachloroethene	ND	0.11	ND	0.016	
108-90-7	Chlorobenzene	ND	0.52	ND	0.11	
100-41-4	Ethylbenzene	ND	0.52	ND	0.12	
179601-23-1	m,p-Xylenes	ND	1.1	ND	0.25	
75-25-2	Bromoform	ND	0.52	ND	0.050	
100-42-5	Styrene	ND	0.52	ND	0.12	
95-47-6	o-Xylene	ND	0.52	ND	0.12	
111-84-2	n-Nonane	ND	0.52	ND	0.099	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.11	ND	0.016	
98-82-8	Cumene	ND	0.52	ND	0.11	
80-56-8	alpha-Pinene	ND	0.54	ND	0.097	
103-65-1	n-Propylbenzene	ND	0.53	ND	0.11	
622-96-8	4-Ethyltoluene	ND	0.53	ND	0.11	
108-67-8	1,3,5-Trimethylbenzene	ND	0.52	ND	0.11	
95-63-6	1,2,4-Trimethylbenzene	ND	0.52	ND	0.11	
100-44-7	Benzyl Chloride	ND	1.1	ND	0.21	
541-73-1	1,3-Dichlorobenzene	ND	0.52	ND	0.087	
106-46-7	1,4-Dichlorobenzene	ND	0.52	ND	0.087	
95-50-1	1,2-Dichlorobenzene	ND	0.53	ND	0.088	
5989-27-5	d-Limonene	ND	0.52	ND	0.093	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ND	0.10	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ND	0.13	
91-20-3	Naphthalene	ND	0.52	ND	0.099	
87-68-3	Hexachlorobutadiene	ND	0.52	ND	0.049	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Data File : I:\MS09\DATA\2022 04\15\04152203.D
 Acq On : 15 Apr 2022 2:05
 Sample : MB R9041522_1000mL
 Misc : S35-04132201

Vial: 2
 Operator: SC
 Inst : MS09

Quant Time: Apr 15 04:15:37 2022

Quant Method : I:\MS09\Methods\R9040722.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

CG 4/15/22

QLast Update : Thu Apr 07 16:31:14 2022

Response via : Initial Calibration

DataAcq Meth:TO15.M

4/15/22

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.17	130	128916	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	13.30	114	580665	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	17.64	54	151148	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	12.03	65	259536	13.161	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery	=	105.28%	
57) Toluene-d8 (SS2)	15.77	98	683126	12.404	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	99.20%	
73) Bromofluorobenzene (SS3)	19.03	174	199880	10.305	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	82.40%	

Target Compounds

						Qvalue
2) Propene	4.11	42	137	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	6.34	45	9687	0.746	ng	77
11) Acetonitrile	6.64	41	114	N.D.		
12) Acrolein	6.81	56	108	N.D.		
13) Acetone	7.04	58	3243	0.317	ng	# 71
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) 2-Propanol (Isopropanol)	7.59	45	131	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	0.00	84	0	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	0.00	76	0	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	13.30	61	20329	No	Calib	
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	12.91	78	1028	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	13.31	84	367	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.		
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.		

Data File : I:\MS09\DATA\2022 04\15\04152203.D
 Acq On : 15 Apr 2022 2:05
 Sample : MB R9041522_1000mL
 Misc : S35-04132201

Vial: 2
 Operator: SC
 Inst : MS09

Quant Time: Apr 15 04:15:37 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

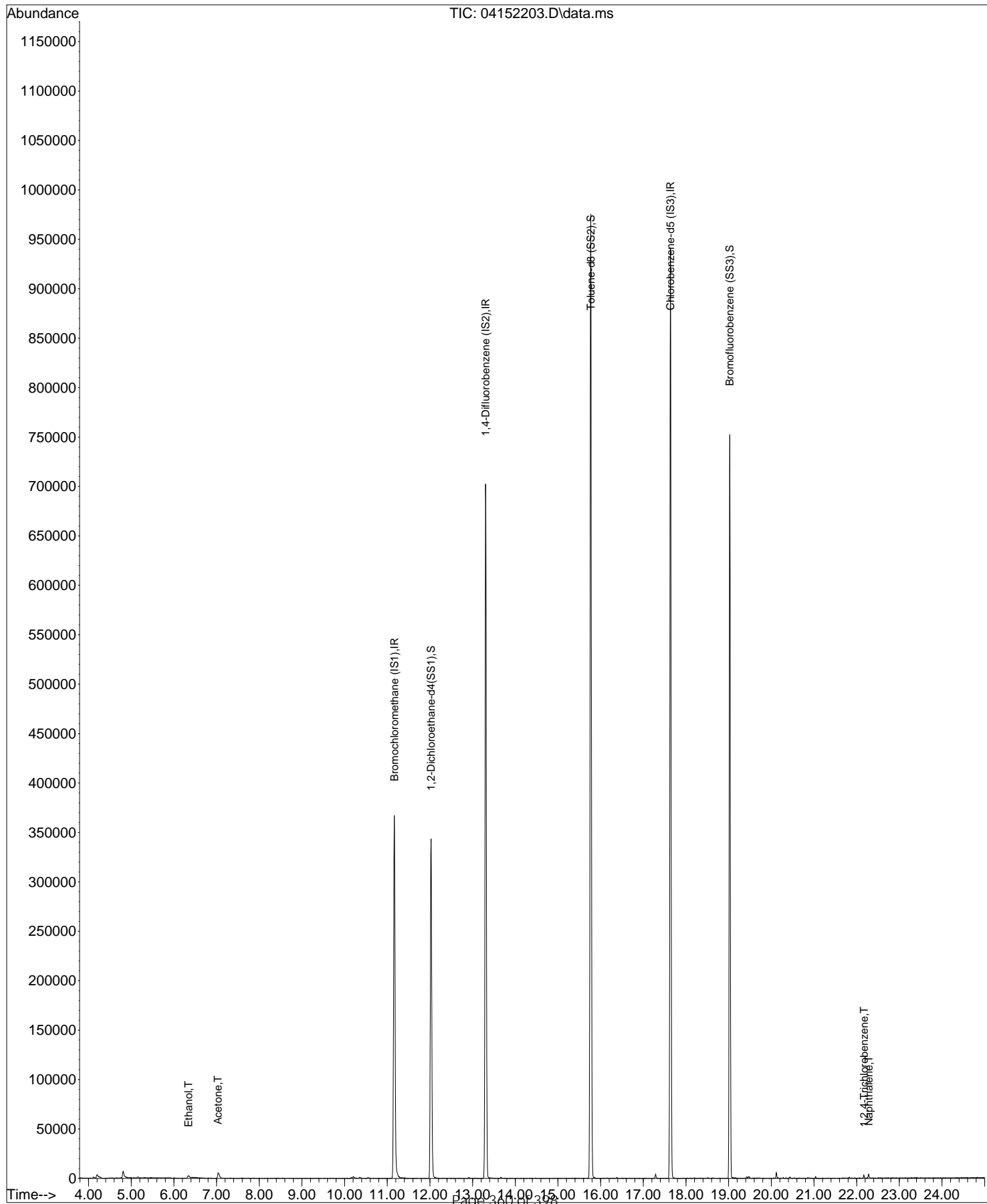
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
58) Toluene	15.86	91	191	N.D.		
59) 2-Hexanone	16.15	43	427	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	16.77	43	113	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	18.03	91	117	N.D.		
67) m- & p-Xylenes	18.20	91	480	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	18.62	91	237	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	19.16	105	176	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	19.60	91	237	N.D.		
77) 3-Ethyltoluene	19.74	105	167	No Calib	#	
78) 4-Ethyltoluene	19.74	105	167	N.D.		
79) 1,3,5-Trimethylbenzene	19.80	105	178	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	20.86	105	625	No Calib	#	
82) 1,2,4-Trimethylbenzene	20.16	105	310	N.D.		
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	20.28	91	527	N.D.		
85) 1,3-Dichlorobenzene	20.29	146	132	N.D.		
86) 1,4-Dichlorobenzene	20.36	146	252	N.D.		
87) sec-Butylbenzene	20.40	105	170	N.D.		
88) 4-Isopropyltoluene (p-...	20.54	119	282	N.D.		
89) 1,2,3-Trimethylbenzene	20.40	105	170	No Calib	#	
90) 1,2-Dichlorobenzene	20.66	146	208	N.D.		
91) d-Limonene	0.00	68	0	N.D.		
92) 1,2-Dibromo-3-Chloropr...	21.04	157	355	N.D.		
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	22.17	180	1245	0.054 ng	#	87
95) Naphthalene	22.28	128	4368	0.069 ng		90
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	20.16	119	134	N.D.		
100) n-Butylbenzene	20.91	91	238	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\2022 04\15\04152203.D
Acq On : 15 Apr 2022 2:05
Sample : MB R9041522_1000mL
Misc : S35-04132201

Vial: 2
Operator: SC
Inst : MS09

Quant Time: Apr 15 04:15:37 2022
Quant Method : I:\MS09\Methods\R9040722.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Apr 07 16:31:14 2022
Response via : Initial Calibration
DataAcq Meth:TO15.M



ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: NYS Department of Environmental Conservation
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602
 ALS Sample ID: P220414-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/14/22
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
115-07-1	Propene	206	210	209	102	101	56-128	1	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	208	199	204	96	98	71-112	2	25	
74-87-3	Chloromethane	206	227	230	110	112	53-126	2	25	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	208	200	205	96	99	62-121	3	25	
75-01-4	Vinyl Chloride	208	222	223	107	107	63-123	0	25	
106-99-0	1,3-Butadiene	206	232	231	113	112	63-135	0.9	25	
74-83-9	Bromomethane	206	215	218	104	106	71-112	2	25	
75-00-3	Chloroethane	206	209	212	101	103	66-117	2	25	
64-17-5	Ethanol	832	876	865	105	104	57-117	1	25	
75-05-8	Acetonitrile	202	193	191	96	95	59-131	1	25	
107-02-8	Acrolein	416	443	437	106	105	71-123	0.9	25	
67-64-1	Acetone	1,020	1040	1020	102	100	60-117	2	25	
75-69-4	Trichlorofluoromethane (CFC 11)	202	194	197	96	98	71-114	2	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	400	448	446	112	112	61-124	0	25	
107-13-1	Acrylonitrile	402	429	421	107	105	65-130	2	25	
75-35-4	1,1-Dichloroethene	210	214	214	102	102	74-114	0	25	
75-09-2	Methylene Chloride	208	210	207	101	100	75-112	1	25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	204	208	204	102	100	57-127	2	25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	216	199	199	92	92	73-114	0	25	
75-15-0	Carbon Disulfide	414	447	449	108	108	70-113	0	25	
156-60-5	trans-1,2-Dichloroethene	208	224	223	108	107	76-119	0.9	25	
75-34-3	1,1-Dichloroethane	214	218	216	102	101	70-114	1	25	
1634-04-4	Methyl tert-Butyl Ether	206	216	206	105	100	72-118	5	25	
108-05-4	Vinyl Acetate	942	1260	1260	134	134	56-137	0	25	
78-93-3	2-Butanone (MEK)	408	442	437	108	107	74-121	0.9	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 3

Client: NYS Department of Environmental Conservation
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602
 ALS Sample ID: P220414-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/14/22
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		ALS		RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	% Recovery	Acceptance	RPD			
		µg/m ³	µg/m ³	µg/m ³	LCS	DLCS	Limits	Limit	Qualifier	
156-59-2	cis-1,2-Dichloroethene	206	216	214	105	104	73-117	1	25	
141-78-6	Ethyl Acetate	580	666	650	115	112	59-161	3	25	
110-54-3	n-Hexane	208	238	233	114	112	55-130	2	25	
67-66-3	Chloroform	210	215	212	102	101	71-114	1	25	
109-99-9	Tetrahydrofuran (THF)	404	431	425	107	105	73-114	2	25	
107-06-2	1,2-Dichloroethane	210	215	215	102	102	71-119	0	25	
71-55-6	1,1,1-Trichloroethane	208	207	210	100	101	73-119	1	25	
71-43-2	Benzene	208	208	209	100	100	72-113	0	25	
56-23-5	Carbon Tetrachloride	202	203	206	100	102	67-123	2	25	
110-82-7	Cyclohexane	412	425	427	103	104	70-119	1	25	
78-87-5	1,2-Dichloropropane	206	212	220	103	107	70-118	4	25	
75-27-4	Bromodichloromethane	208	221	239	106	115	74-119	8	25	
79-01-6	Trichloroethene	204	199	216	98	106	74-115	8	25	
123-91-1	1,4-Dioxane	206	217	234	105	114	77-124	8	25	
80-62-6	Methyl Methacrylate	410	441	479	108	117	78-126	8	25	
142-82-5	n-Heptane	206	215	230	104	112	70-119	7	25	
10061-01-5	cis-1,3-Dichloropropene	208	232	248	112	119	81-126	6	25	
108-10-1	4-Methyl-2-pentanone	412	454	476	110	116	73-129	5	25	
10061-02-6	trans-1,3-Dichloropropene	200	225	242	113	121	80-127	7	25	
79-00-5	1,1,2-Trichloroethane	208	207	220	100	106	78-117	6	25	
108-88-3	Toluene	206	191	206	93	100	70-118	7	25	
591-78-6	2-Hexanone	406	432	455	106	112	74-132	6	25	
124-48-1	Dibromochloromethane	210	202	221	96	105	69-137	9	25	
106-93-4	1,2-Dibromoethane	208	198	202	95	97	76-128	2	25	
123-86-4	n-Butyl Acetate	406	444	446	109	110	75-134	0.9	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 3 of 3

Client: NYS Department of Environmental Conservation
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602
 ALS Sample ID: P220414-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/14/22
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
111-65-9	n-Octane	208	202	203	97	98	68-120	1	25	
127-18-4	Tetrachloroethene	212	184	187	87	88	63-130	1	25	
108-90-7	Chlorobenzene	206	189	193	92	94	70-118	2	25	
100-41-4	Ethylbenzene	206	200	204	97	99	71-123	2	25	
179601-23-1	m,p-Xylenes	416	407	413	98	99	67-127	1	25	
75-25-2	Bromoform	210	203	208	97	99	65-149	2	25	
100-42-5	Styrene	202	199	201	99	100	76-132	1	25	
95-47-6	o-Xylene	208	203	206	98	99	69-124	1	25	
111-84-2	n-Nonane	208	210	209	101	100	64-127	1	25	
79-34-5	1,1,2,2-Tetrachloroethane	208	206	209	99	100	69-128	1	25	
98-82-8	Cumene	206	197	200	96	97	69-125	1	25	
80-56-8	alpha-Pinene	210	209	212	100	101	68-129	1	25	
103-65-1	n-Propylbenzene	208	204	206	98	99	70-127	1	25	
622-96-8	4-Ethyltoluene	208	206	207	99	100	69-127	1	25	
108-67-8	1,3,5-Trimethylbenzene	208	205	207	99	100	66-129	1	25	
95-63-6	1,2,4-Trimethylbenzene	206	218	221	106	107	63-142	0.9	25	
100-44-7	Benzyl Chloride	416	459	472	110	113	73-145	3	25	
541-73-1	1,3-Dichlorobenzene	208	201	204	97	98	67-136	1	25	
106-46-7	1,4-Dichlorobenzene	210	194	195	92	93	63-134	1	25	
95-50-1	1,2-Dichlorobenzene	210	198	200	94	95	64-139	1	25	
5989-27-5	d-Limonene	206	216	218	105	106	63-137	0.9	25	
96-12-8	1,2-Dibromo-3-chloropropane	404	377	392	93	97	72-145	4	25	
120-82-1	1,2,4-Trichlorobenzene	420	314	337	75	80	62-154	6	25	
91-20-3	Naphthalene	210	155	169	74	80	62-156	8	25	
87-68-3	Hexachlorobutadiene	212	155	164	73	77	55-142	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:\MS09\DATA\2022 04\14\04142204.D
 Acq On : 14 Apr 2022 2:00
 Sample : LCS R9041422 25ng
 Misc : S35-04132201/S35-04082209 (5/8)

Vial: 2
 Operator: SC
 Inst : MS09

Quant Time: Apr 14 08:24:12 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

4/14/22

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.18	130	133884	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	13.32	114	581139	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.64	54	158669	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.04	65	263075	12.846	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	102.80%	
57) Toluene-d8 (SS2)	15.77	98	684969	11.847	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	94.80%	
73) Bromofluorobenzene (SS3)	19.03	174	210645	10.345	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	82.72%	

Target Compounds

						Qvalue
2) Propene	4.04	42	485285	26.263	ng	99
3) Dichlorodifluoromethan...	4.20	85	630455	24.929	ng	100
4) Chloromethane	4.49	50	596318	28.406	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	4.75	135	284476	25.028	ng	100
6) Vinyl Chloride	4.92	62	486636	27.710	ng	100
7) 1,3-Butadiene	5.18	54	455323	29.011	ng	98
8) Bromomethane	5.63	94	241064	26.874	ng	100
9) Chloroethane	5.96	64	210135	26.165	ng	99
10) Ethanol	6.35	45	1475835	109.503	ng	100
11) Acetonitrile	6.60	41	813558	24.066	ng	100
12) Acrolein	6.79	56	457089	55.333	ng	99
13) Acetone	7.00	58	1383448	130.396	ng	98
14) Trichlorofluoromethane	7.24	101	571644	24.257	ng	100
15) 2-Propanol (Isopropanol)	7.51	45	2347969	55.988	ng	99
16) Acrylonitrile	7.76	53	988454	53.605	ng	100
17) 1,1-Dichloroethene	8.21	96	282400	26.713	ng	96
18) 2-Methyl-2-Propanol (t...	8.38	59	1776552	66.197	ng	99
19) Methylene Chloride	8.44	84	289697	26.229	ng	94
20) 3-Chloro-1-propene (Al...	8.60	41	643671	25.945	ng	99
21) Trichlorotrifluoroethane	8.86	151	250184	24.816	ng	92
22) Carbon Disulfide	8.70	76	2075084	55.860	ng	100
23) trans-1,2-Dichloroethene	9.73	61	491113	27.960	ng	97
24) 1,1-Dichloroethane	9.98	63	585898	27.205	ng	100
25) Methyl tert-Butyl Ether	10.07	73	792506	26.992	ng	99
26) Vinyl Acetate	10.24	86	301600	158.074	ng	# 85
27) 2-Butanone (MEK)	10.48	72	409460	55.246	ng	# 92
28) cis-1,2-Dichloroethene	11.00	61	475086	26.949	ng	97
29) Diisopropyl Ether	11.30	87	602414	58.871	ng	# 76
30) Ethyl Acetate	11.31	61	440906	83.294	ng	99
31) n-Hexane	11.29	57	710454	29.780	ng	100
32) Chloroform	11.36	83	555407	26.831	ng	100
34) Tetrahydrofuran (THF)	11.75	72	383484	53.912	ng	94
35) Ethyl tert-Butyl Ether	11.90	87	766378	56.055	ng	97
36) 1,2-Dichloroethane	12.16	62	491217	26.880	ng	100
38) 1,1,1-Trichloroethane	12.44	97	515155	25.891	ng	98
39) Isopropyl Acetate	13.32	61	20531	No Calib		
40) 1-Butanol	12.90	56	9451	No Calib	#	
41) Benzene	12.92	78	1167539	25.953	ng	100
42) Carbon Tetrachloride	13.08	117	438183	25.327	ng	100
43) Cyclohexane	13.21	84	916571	53.148	ng	97
44) tert-Amyl Methyl Ether	13.55	73	1812330	57.110	ng	98
45) 1,2-Dichloropropane	13.77	63	333895	26.491	ng	99
46) Bromodichloromethane	13.96	83	452819	27.625	ng	100
47) Trichloroethene	14.02	130	318242	24.818	ng	99
48) 1,4-Dioxane	13.99	88	246499	27.176	ng	97
49) 2,2,4-Trimethylpentane...	14.09	57	1562032	26.274	ng	98
50) Methyl Methacrylate	14.22	100	248245	55.063	ng	92

Data File : I:\MS09\DATA\2022 04\14\04142204.D
 Acq On : 14 Apr 2022 2:00
 Sample : LCS R9041422 25ng
 Misc : S35-04132201/S35-04082209 (5/8)

Vial: 2
 Operator: SC
 Inst : MS09

Quant Time: Apr 14 08:24:12 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

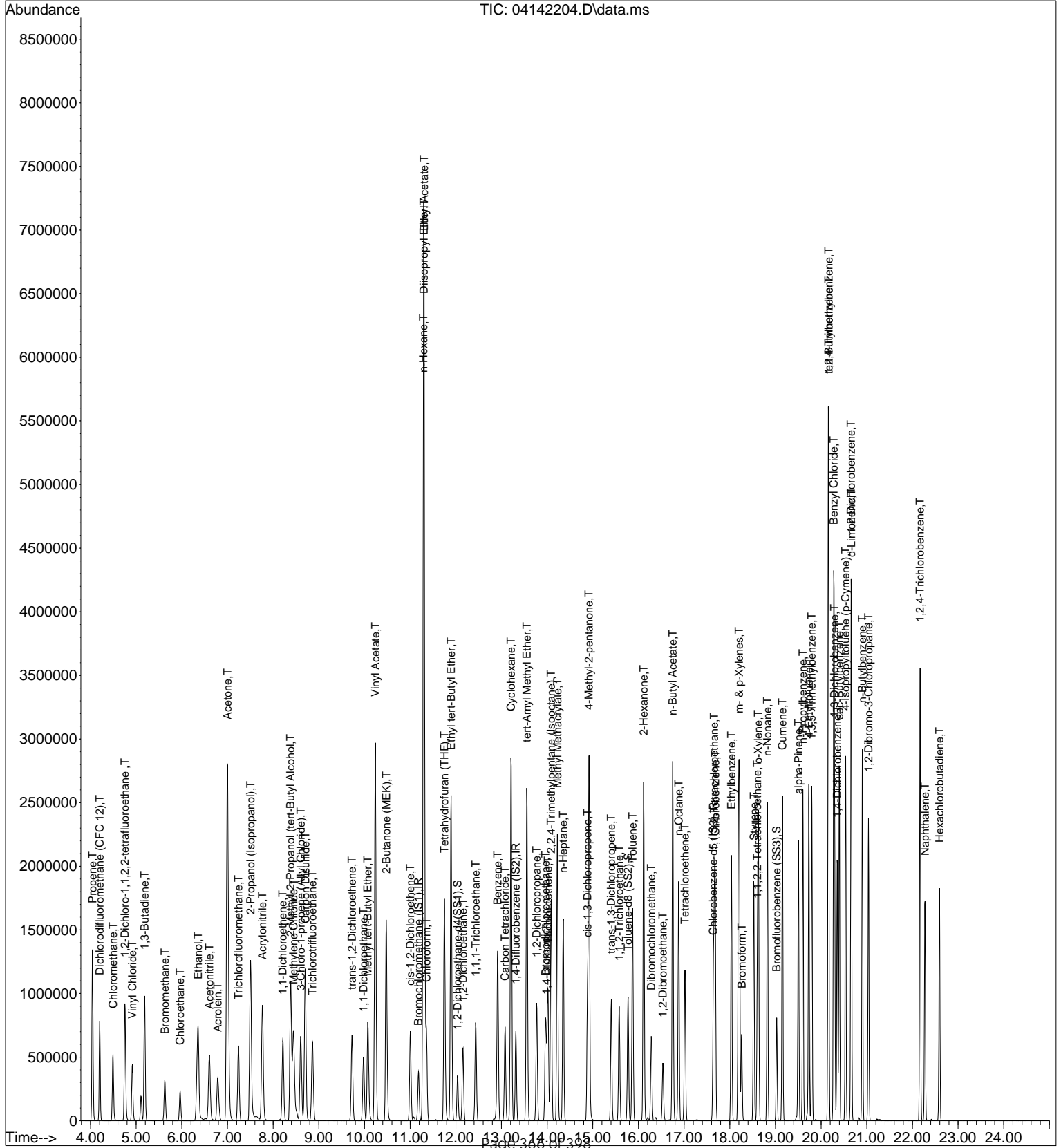
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.35	71	314980	26.819	ng	99
52) cis-1,3-Dichloropropene	14.88	75	523330	28.960	ng	99
53) 4-Methyl-2-pentanone	14.92	58	723273	56.801	ng	96
54) trans-1,3-Dichloropropene	15.40	75	489438	28.172	ng	100
55) 1,1,2-Trichloroethane	15.58	97	298482	25.851	ng	98
58) Toluene	15.87	91	1272326	23.932	ng	100
59) 2-Hexanone	16.11	43	2214047	54.058	ng	98
60) Dibromochloromethane	16.28	129	376221	25.297	ng	100
61) 1,2-Dibromoethane	16.53	107	351866	24.801	ng	100
62) n-Butyl Acetate	16.75	43	2480369	55.559	ng	99
63) n-Octane	16.88	57	335729	25.206	ng	98
64) Tetrachloroethene	17.02	166	348012	22.984	ng	99
65) Chlorobenzene	17.68	112	846887	23.671	ng	99
66) Ethylbenzene	18.03	91	1514382	25.027	ng	99
67) m- & p-Xylenes	18.20	91	2474446	50.891	ng	100
68) Bromoform	18.26	173	326114	25.352	ng	99
69) Styrene	18.53	104	861388	24.832	ng	99
70) o-Xylene	18.62	91	1246887	25.418	ng	99
71) n-Nonane	18.82	43	988253	26.245	ng	98
72) 1,1,2,2-Tetrachloroethane	18.60	83	562556	25.758	ng	100
74) Cumene	19.15	105	1524858	24.655	ng	99
75) alpha-Pinene	19.50	93	766377	26.131	ng	97
76) n-Propylbenzene	19.60	91	1896843	25.511	ng	99
77) 3-Ethyltoluene	19.73	105	1540830	No Calib		
78) 4-Ethyltoluene	19.73	105	1540830	25.716	ng	99
79) 1,3,5-Trimethylbenzene	19.79	105	1301181	25.567	ng	100
80) alpha-Methylstyrene	19.61	118	3053	No Calib	#	
81) 2-Ethyltoluene	20.66	105	33654	No Calib		
82) 1,2,4-Trimethylbenzene	20.16	105	1432183	27.306	ng	99
83) n-Decane	20.53	58	5245	No Calib	#	
84) Benzyl Chloride	20.28	91	2340231	57.348	ng	99
85) 1,3-Dichlorobenzene	20.29	146	757221	25.083	ng	100
86) 1,4-Dichlorobenzene	20.36	146	741414	24.260	ng	100
87) sec-Butylbenzene	20.40	105	1729889	25.215	ng	99
88) 4-Isopropyltoluene (p-...	20.54	119	1459462	25.073	ng	99
89) 1,2,3-Trimethylbenzene	20.40	105	1729889	No Calib		
90) 1,2-Dichlorobenzene	20.66	146	721050	24.688	ng	99
91) d-Limonene	20.66	68	526360	26.972	ng	98
92) 1,2-Dibromo-3-Chloropr...	21.04	157	519631	47.077	ng	91
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	22.17	180	955239	39.224	ng	100
95) Naphthalene	22.28	128	1275892	19.327	ng	100
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	22.59	225	313884	19.396	ng	100
98) Cyclohexanone	18.63	55	1238	No Calib		
99) tert-Butylbenzene	20.16	119	1319000	26.156	ng	99
100) n-Butylbenzene	20.90	91	1450020	25.323	ng	99
101) 1,1,1,2-Tetrachloroethane	17.66	131	315630	24.163	ng	100

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

Data File : I:\MS09\DATA\2022 04\14\04142204.D
 Acq On : 14 Apr 2022 2:00
 Sample : LCS R9041422 25ng
 Misc : S35-04132201/S35-04082209 (5/8)

Vial: 2
 Operator: SC
 Inst : MS09

Quant Time: Apr 14 08:24:12 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2022 04\14\04142205.D
 Acq On : 14 Apr 2022 2:33
 Sample : LCSD R9041422 25ng
 Misc : S35-04132201/S35-04082209 (5/8)

Vial: 2
 Operator: SC
 Inst : MS09

Quant Time: Apr 14 08:26:30 2022

4/14/22

Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.19	130	140780	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.32	114	601587	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.64	54	161704	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.04	65	275228	12.781	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	102.24%	
57) Toluene-d8 (SS2)	15.77	98	753936	12.796	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	102.40%	
73) Bromofluorobenzene (SS3)	19.03	174	219841	10.594	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	84.72%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.05	42	508449	26.169	ng	99
3) Dichlorodifluoromethan...	4.21	85	679388	25.548	ng	100
4) Chloromethane	4.50	50	633540	28.700	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	4.76	135	305870	25.592	ng	100
6) Vinyl Chloride	4.92	62	515226	27.901	ng	100
7) 1,3-Butadiene	5.20	54	476763	28.889	ng	98
8) Bromomethane	5.63	94	256928	27.240	ng	100
9) Chloroethane	5.97	64	223652	26.484	ng	100
10) Ethanol	6.37	45	1531445	108.063	ng	100
11) Acetonitrile	6.61	41	847875	23.853	ng	100
12) Acrolein	6.80	56	474731	54.654	ng	100
13) Acetone	7.01	58	1416199	126.944	ng	97
14) Trichlorofluoromethane	7.25	101	609608	24.601	ng	100
15) 2-Propanol (Isopropanol)	7.51	45	2455763	55.690	ng	100
16) Acrylonitrile	7.77	53	1021359	52.676	ng	100
17) 1,1-Dichloroethene	8.22	96	297472	26.760	ng	96
18) 2-Methyl-2-Propanol (t...	8.39	59	1828688	64.802	ng	99
19) Methylene Chloride	8.45	84	300826	25.902	ng	94
20) 3-Chloro-1-propene (Al...	8.61	41	664876	25.487	ng	99
21) Trichlorotrifluoroethane	8.86	151	264025	24.906	ng	92
22) Carbon Disulfide	8.71	76	2189949	56.064	ng	99
23) trans-1,2-Dichloroethene	9.73	61	514427	27.853	ng	97
24) 1,1-Dichloroethane	9.98	63	612745	27.058	ng	100
25) Methyl tert-Butyl Ether	10.08	73	795484	25.767	ng	99
26) Vinyl Acetate	10.24	86	315159	157.089	ng	# 89
27) 2-Butanone (MEK)	10.48	72	425383	54.583	ng	94
28) cis-1,2-Dichloroethene	11.01	61	496313	26.774	ng	97
29) Diisopropyl Ether	11.30	87	621997	57.807	ng	# 73
30) Ethyl Acetate	11.31	61	452510	81.299	ng	100
31) n-Hexane	11.29	57	729418	29.078	ng	100
32) Chloroform	11.36	83	577863	26.548	ng	100
34) Tetrahydrofuran (THF)	11.75	72	397598	53.158	ng	95
35) Ethyl tert-Butyl Ether	11.90	87	798759	55.561	ng	97
36) 1,2-Dichloroethane	12.16	62	515355	26.819	ng	99
38) 1,1,1-Trichloroethane	12.44	97	540307	26.232	ng	98
39) Isopropyl Acetate	13.32	61	21548	No Calib		
40) 1-Butanol	12.91	56	9280	No Calib	#	
41) Benzene	12.92	78	1214807	26.086	ng	100
42) Carbon Tetrachloride	13.08	117	460327	25.703	ng	99
43) Cyclohexane	13.21	84	952229	53.339	ng	97
44) tert-Amyl Methyl Ether	13.55	73	1899616	57.826	ng	98
45) 1,2-Dichloropropane	13.78	63	358922	27.509	ng	100
46) Bromodichloromethane	13.96	83	505893	29.814	ng	100
47) Trichloroethene	14.02	130	357809	26.956	ng	100
48) 1,4-Dioxane	13.99	88	274483	29.233	ng	98
49) 2,2,4-Trimethylpentane...	14.09	57	1694599	27.535	ng	98
50) Methyl Methacrylate	14.22	100	279419	59.871	ng	95

Data File : I:\MS09\DATA\2022 04\14\04142205.D
 Acq On : 14 Apr 2022 2:33
 Sample : LCSD R9041422 25ng
 Misc : S35-04132201/S35-04082209 (5/8)

Vial: 2
 Operator: SC
 Inst : MS09

Quant Time: Apr 14 08:26:30 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

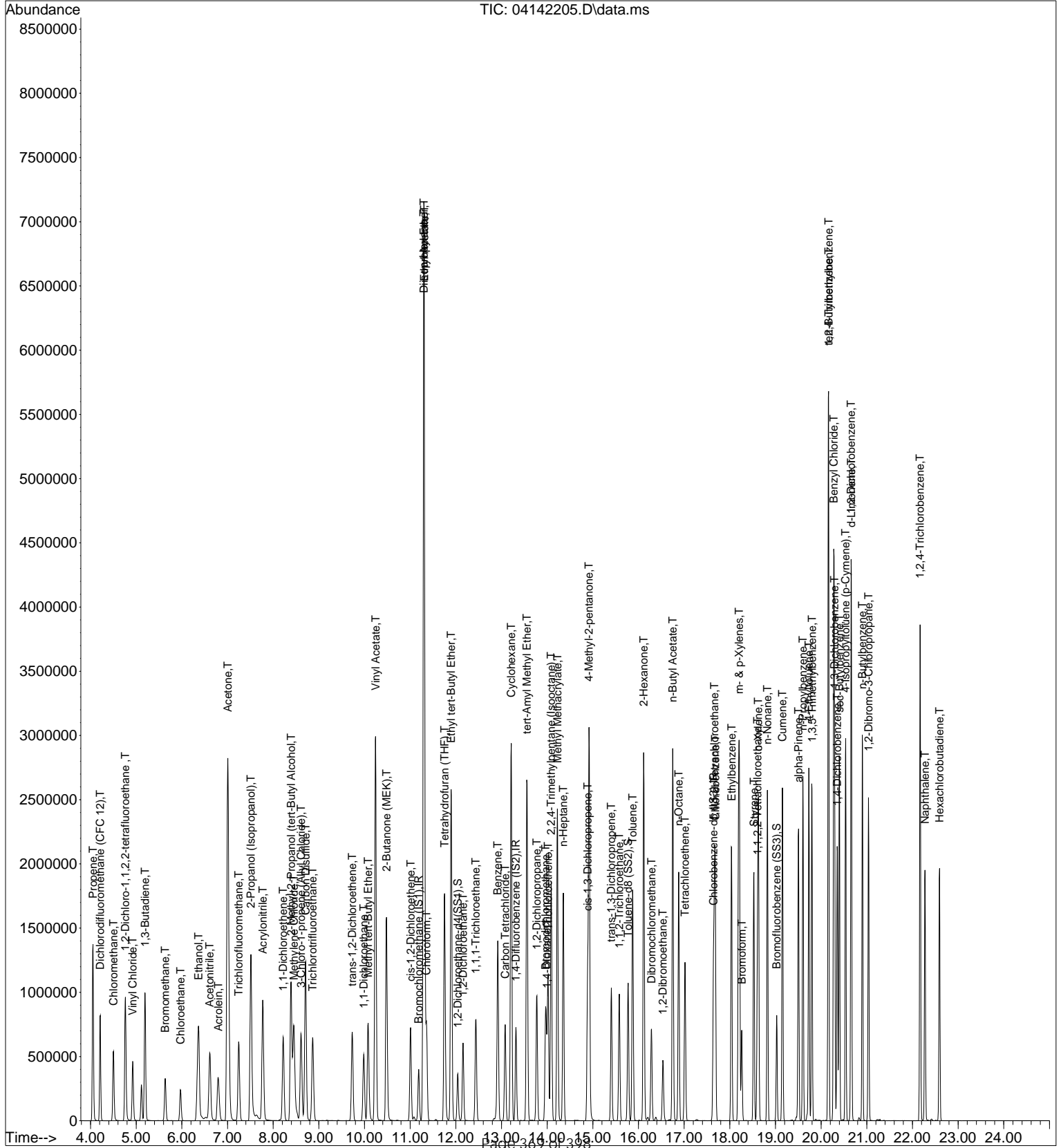
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	14.35	71	349000	28.706	ng	100
52) cis-1,3-Dichloropropene	14.89	75	579290	30.967	ng	100
53) 4-Methyl-2-pentanone	14.92	58	784862	59.542	ng	99
54) trans-1,3-Dichloropropene	15.40	75	544286	30.265	ng	100
55) 1,1,2-Trichloroethane	15.58	97	328503	27.485	ng	99
58) Toluene	15.87	91	1394679	25.741	ng	99
59) 2-Hexanone	16.11	43	2371998	56.827	ng	99
60) Dibromochloromethane	16.28	129	419087	27.651	ng	100
61) 1,2-Dibromoethane	16.53	107	365230	25.260	ng	100
62) n-Butyl Acetate	16.75	43	2534126	55.698	ng	99
63) n-Octane	16.88	57	345229	25.433	ng	97
64) Tetrachloroethene	17.02	166	361581	23.432	ng	99
65) Chlorobenzene	17.68	112	880772	24.156	ng	99
66) Ethylbenzene	18.04	91	1569439	25.450	ng	99
67) m- & p-Xylenes	18.20	91	2556462	51.591	ng	99
68) Bromoform	18.26	173	340968	26.009	ng	100
69) Styrene	18.53	104	889958	25.174	ng	99
70) o-Xylene	18.62	91	1286970	25.742	ng	99
71) n-Nonane	18.82	43	1003901	26.160	ng	98
72) 1,1,2,2-Tetrachloroethane	18.61	83	580368	26.075	ng	99
74) Cumene	19.15	105	1571832	24.938	ng	99
75) alpha-Pinene	19.50	93	791772	26.490	ng	98
76) n-Propylbenzene	19.60	91	1950596	25.741	ng	99
77) 3-Ethyltoluene	19.73	105	1582478	No Calib		
78) 4-Ethyltoluene	19.73	105	1582478	25.915	ng	100
79) 1,3,5-Trimethylbenzene	19.80	105	1342942	25.892	ng	99
80) alpha-Methylstyrene	19.61	118	3125	No Calib	#	
81) 2-Ethyltoluene	20.66	105	34882	No Calib		
82) 1,2,4-Trimethylbenzene	20.16	105	1474774	27.590	ng	99
83) n-Decane	20.53	58	5116	No Calib	#	
84) Benzyl Chloride	20.28	91	2453751	59.001	ng	99
85) 1,3-Dichlorobenzene	20.29	146	786058	25.549	ng	100
86) 1,4-Dichlorobenzene	20.36	146	760869	24.429	ng	99
87) sec-Butylbenzene	20.40	105	1776876	25.414	ng	99
88) 4-Isopropyltoluene (p-...	20.54	119	1498401	25.259	ng	99
89) 1,2,3-Trimethylbenzene	20.40	105	1776876	No Calib		
90) 1,2-Dichlorobenzene	20.66	146	744509	25.013	ng	100
91) d-Limonene	20.66	68	542699	27.287	ng	98
92) 1,2-Dibromo-3-Chloropr...	21.04	157	551705	49.045	ng	91
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	22.17	180	1045842	42.139	ng	99
95) Naphthalene	22.28	128	1424037	21.166	ng	100
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	22.59	225	337832	20.484	ng	100
98) Cyclohexanone	18.63	55	1250	No Calib		
99) tert-Butylbenzene	20.16	119	1352979	26.326	ng	99
100) n-Butylbenzene	20.90	91	1499827	25.702	ng	99
101) 1,1,1,2-Tetrachloroethane	17.66	131	330305	24.812	ng	99

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

Data File : I:\MS09\DATA\2022 04\14\04142205.D
 Acq On : 14 Apr 2022 2:33
 Sample : LCSD R9041422 25ng
 Misc : S35-04132201/S35-04082209 (5/8)

Vial: 2
 Operator: SC
 Inst : MS09

Quant Time: Apr 14 08:26:30 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: NYS Department of Environmental Conservation
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602
 ALS Sample ID: P220415-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/15/22
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
115-07-1	Propene	206	202	206	98	100	56-128	2	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	208	197	203	95	98	71-112	3	25	
74-87-3	Chloromethane	206	223	227	108	110	53-126	2	25	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	208	201	209	97	100	62-121	3	25	
75-01-4	Vinyl Chloride	208	217	222	104	107	63-123	3	25	
106-99-0	1,3-Butadiene	206	228	231	111	112	63-135	0.9	25	
74-83-9	Bromomethane	206	212	218	103	106	71-112	3	25	
75-00-3	Chloroethane	206	205	213	100	103	66-117	3	25	
64-17-5	Ethanol	832	852	855	102	103	57-117	1	25	
75-05-8	Acetonitrile	202	187	188	93	93	59-131	0	25	
107-02-8	Acrolein	416	431	430	104	103	71-123	1	25	
67-64-1	Acetone	1,020	1020	1010	100	99	60-117	1	25	
75-69-4	Trichlorofluoromethane (CFC 11)	202	191	197	95	98	71-114	3	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	400	438	440	110	110	61-124	0	25	
107-13-1	Acrylonitrile	402	418	415	104	103	65-130	1	25	
75-35-4	1,1-Dichloroethene	210	211	213	100	101	74-114	1	25	
75-09-2	Methylene Chloride	208	208	207	100	100	75-112	0	25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	204	201	201	99	99	57-127	0	25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	216	198	201	92	93	73-114	1	25	
75-15-0	Carbon Disulfide	414	438	443	106	107	70-113	0.9	25	
156-60-5	trans-1,2-Dichloroethene	208	220	222	106	107	76-119	0.9	25	
75-34-3	1,1-Dichloroethane	214	213	215	100	100	70-114	0	25	
1634-04-4	Methyl tert-Butyl Ether	206	215	206	104	100	72-118	4	25	
108-05-4	Vinyl Acetate	942	1250	1250	133	133	56-137	0	25	
78-93-3	2-Butanone (MEK)	408	437	436	107	107	74-121	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 3

Client: NYS Department of Environmental Conservation
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602
 ALS Sample ID: P220415-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/15/22
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		ALS		RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	% Recovery	Acceptance	RPD			
		µg/m ³	µg/m ³	µg/m ³	LCS	DLCS	Limits	Limit	Qualifier	
156-59-2	cis-1,2-Dichloroethene	206	212	213	103	103	73-117	0	25	
141-78-6	Ethyl Acetate	580	650	642	112	111	59-161	0.9	25	
110-54-3	n-Hexane	208	232	230	112	111	55-130	0.9	25	
67-66-3	Chloroform	210	211	214	100	102	71-114	2	25	
109-99-9	Tetrahydrofuran (THF)	404	425	427	105	106	73-114	0.9	25	
107-06-2	1,2-Dichloroethane	210	211	213	100	101	71-119	1	25	
71-55-6	1,1,1-Trichloroethane	208	206	207	99	100	73-119	1	25	
71-43-2	Benzene	208	205	206	99	99	72-113	0	25	
56-23-5	Carbon Tetrachloride	202	201	203	100	100	67-123	0	25	
110-82-7	Cyclohexane	412	419	419	102	102	70-119	0	25	
78-87-5	1,2-Dichloropropane	206	208	209	101	101	70-118	0	25	
75-27-4	Bromodichloromethane	208	218	219	105	105	74-119	0	25	
79-01-6	Trichloroethene	204	196	197	96	97	74-115	1	25	
123-91-1	1,4-Dioxane	206	217	218	105	106	77-124	0.9	25	
80-62-6	Methyl Methacrylate	410	439	439	107	107	78-126	0	25	
142-82-5	n-Heptane	206	210	211	102	102	70-119	0	25	
10061-01-5	cis-1,3-Dichloropropene	208	228	230	110	111	81-126	0.9	25	
108-10-1	4-Methyl-2-pentanone	412	443	442	108	107	73-129	0.9	25	
10061-02-6	trans-1,3-Dichloropropene	200	221	223	111	112	80-127	0.9	25	
79-00-5	1,1,2-Trichloroethane	208	203	204	98	98	78-117	0	25	
108-88-3	Toluene	206	191	191	93	93	70-118	0	25	
591-78-6	2-Hexanone	406	419	418	103	103	74-132	0	25	
124-48-1	Dibromochloromethane	210	203	204	97	97	69-137	0	25	
106-93-4	1,2-Dibromoethane	208	198	199	95	96	76-128	1	25	
123-86-4	n-Butyl Acetate	406	435	430	107	106	75-134	0.9	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 3 of 3

Client: NYS Department of Environmental Conservation

Client Sample ID: Duplicate Lab Control Sample

Client Project ID: Armonk PWS / 60628211

ALS Project ID: P2201602

ALS Sample ID: P220415-DLCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 4/15/22

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
111-65-9	n-Octane	208	200	199	96	96	68-120	0	25	
127-18-4	Tetrachloroethene	212	185	187	87	88	63-130	1	25	
108-90-7	Chlorobenzene	206	190	190	92	92	70-118	0	25	
100-41-4	Ethylbenzene	206	199	199	97	97	71-123	0	25	
179601-23-1	m,p-Xylenes	416	413	406	99	98	67-127	1	25	
75-25-2	Bromoform	210	220	206	105	98	65-149	7	25	
100-42-5	Styrene	202	209	198	103	98	76-132	5	25	
95-47-6	o-Xylene	208	213	202	102	97	69-124	5	25	
111-84-2	n-Nonane	208	208	202	100	97	64-127	3	25	
79-34-5	1,1,2,2-Tetrachloroethane	208	212	204	102	98	69-128	4	25	
98-82-8	Cumene	206	195	198	95	96	69-125	1	25	
80-56-8	alpha-Pinene	210	206	207	98	99	68-129	1	25	
103-65-1	n-Propylbenzene	208	201	201	97	97	70-127	0	25	
622-96-8	4-Ethyltoluene	208	203	203	98	98	69-127	0	25	
108-67-8	1,3,5-Trimethylbenzene	208	202	203	97	98	66-129	1	25	
95-63-6	1,2,4-Trimethylbenzene	206	215	215	104	104	63-142	0	25	
100-44-7	Benzyl Chloride	416	455	460	109	111	73-145	2	25	
541-73-1	1,3-Dichlorobenzene	208	200	202	96	97	67-136	1	25	
106-46-7	1,4-Dichlorobenzene	210	194	193	92	92	63-134	0	25	
95-50-1	1,2-Dichlorobenzene	210	198	197	94	94	64-139	0	25	
5989-27-5	d-Limonene	206	209	210	101	102	63-137	1	25	
96-12-8	1,2-Dibromo-3-chloropropane	404	392	396	97	98	72-145	1	25	
120-82-1	1,2,4-Trichlorobenzene	420	344	353	82	84	62-154	2	25	
91-20-3	Naphthalene	210	173	179	82	85	62-156	4	25	
87-68-3	Hexachlorobutadiene	212	162	168	76	79	55-142	4	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:\MS09\DATA\2022 04\15\04152204.D
 Acq On : 15 Apr 2022 2:38
 Sample : LCS R9041522 25ng
 Misc : S35-04132201/S35-04082209 (5/8)

Vial: 2
 Operator: SC
 Inst : MS09

Quant Time: Apr 15 04:15:39 2022

Quant Method : I:\MS09\Methods\R9040722.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

CG 4/15/22

QLast Update : Thu Apr 07 16:31:14 2022

Response via : Initial Calibration

IDA 4/15/22

DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.19	130	145061	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	13.32	114	626906	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.64	54	169059	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	12.04	65	283713	12.786	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	102.32%	
57) Toluene-d8 (SS2)	15.77	98	739984	12.012	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	96.08%	
73) Bromofluorobenzene (SS3)	19.03	174	232139	10.700	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	85.60%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.05	42	506731	25.311	ng	99
3) Dichlorodifluoromethan...	4.21	85	674387	24.611	ng	100
4) Chloromethane	4.50	50	634088	27.877	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	4.76	135	310150	25.185	ng	100
6) Vinyl Chloride	4.92	62	515443	27.089	ng	100
7) 1,3-Butadiene	5.19	54	483947	28.459	ng	99
8) Bromomethane	5.63	94	257348	26.479	ng	100
9) Chloroethane	5.96	64	223255	25.657	ng	100
10) Ethanol	6.35	45	1555722	106.536	ng	100
11) Acetonitrile	6.60	41	855308	23.352	ng	100
12) Acrolein	6.79	56	482121	53.867	ng	99
13) Acetone	7.00	58	1459935	127.003	ng	99
14) Trichlorofluoromethane	7.25	101	610965	23.928	ng	99
15) 2-Propanol (Isopropanol)	7.51	45	2485816	54.708	ng	99
16) Acrylonitrile	7.77	53	1044857	52.298	ng	100
17) 1,1-Dichloroethene	8.22	96	301623	26.333	ng	96
18) 2-Methyl-2-Propanol (t...	8.39	59	1908929	65.649	ng	99
19) Methylene Chloride	8.44	84	310451	25.942	ng	96
20) 3-Chloro-1-propene (Al...	8.61	41	676587	25.170	ng	100
21) Trichlorotrifluoroethane	8.86	151	270147	24.732	ng	92
22) Carbon Disulfide	8.70	76	2204998	54.784	ng	100
23) trans-1,2-Dichloroethene	9.73	61	523380	27.502	ng	97
24) 1,1-Dichloroethane	9.98	63	621265	26.624	ng	100
25) Methyl tert-Butyl Ether	10.07	73	853228	26.821	ng	99
26) Vinyl Acetate	10.24	86	323554	156.514	ng	# 94
27) 2-Butanone (MEK)	10.48	72	438991	54.667	ng	96
28) cis-1,2-Dichloroethene	11.00	61	505219	26.450	ng	97
29) Diisopropyl Ether	11.30	87	641113	57.825	ng	# 70
30) Ethyl Acetate	11.31	61	465705	81.200	ng	100
31) n-Hexane	11.29	57	749433	28.994	ng	100
32) Chloroform	11.36	83	592652	26.424	ng	100
34) Tetrahydrofuran (THF)	11.75	72	409786	53.171	ng	97
35) Ethyl tert-Butyl Ether	11.90	87	820881	55.415	ng	98
36) 1,2-Dichloroethane	12.16	62	522135	26.370	ng	100
38) 1,1,1-Trichloroethane	12.44	97	551380	25.689	ng	98
39) Isopropyl Acetate	13.32	61	22121	No Calib		
40) 1-Butanol	12.90	56	10334	No Calib		#
41) Benzene	12.92	78	1244041	25.634	ng	100
42) Carbon Tetrachloride	13.08	117	468727	25.115	ng	100
43) Cyclohexane	13.21	84	975051	52.412	ng	98
44) tert-Amyl Methyl Ether	13.55	73	1928298	56.329	ng	98
45) 1,2-Dichloropropane	13.77	63	353549	26.003	ng	100
46) Bromodichloromethane	13.96	83	482838	27.306	ng	99
47) Trichloroethene	14.02	130	339509	24.544	ng	99
48) 1,4-Dioxane	13.99	88	265379	27.122	ng	98
49) 2,2,4-Trimethylpentane...	14.09	57	1646358	25.671	ng	98
50) Methyl Methacrylate	14.22	100	267098	54.919	ng	94
51) n-Heptane	14.35	71	332568	26.249	ng	99
52) cis-1,3-Dichloropropene	14.88	75	556437	28.544	ng	100
53) 4-Methyl-2-pentanone	14.92	58	760296	55.349	ng	97
54) trans-1,3-Dichloropropene	15.40	75	518589	27.671	ng	100
55) 1,1,2-Trichloroethane	15.58	97	215867	25.360	ng	97

Data File : I:\MS09\DATA\2022 04\15\04152204.D
 Acq On : 15 Apr 2022 2:38
 Sample : LCS R9041522 25ng
 Misc : S35-04132201/S35-04082209 (5/8)

Vial: 2
 Operator: SC
 Inst : MS09

Quant Time: Apr 15 04:15:39 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

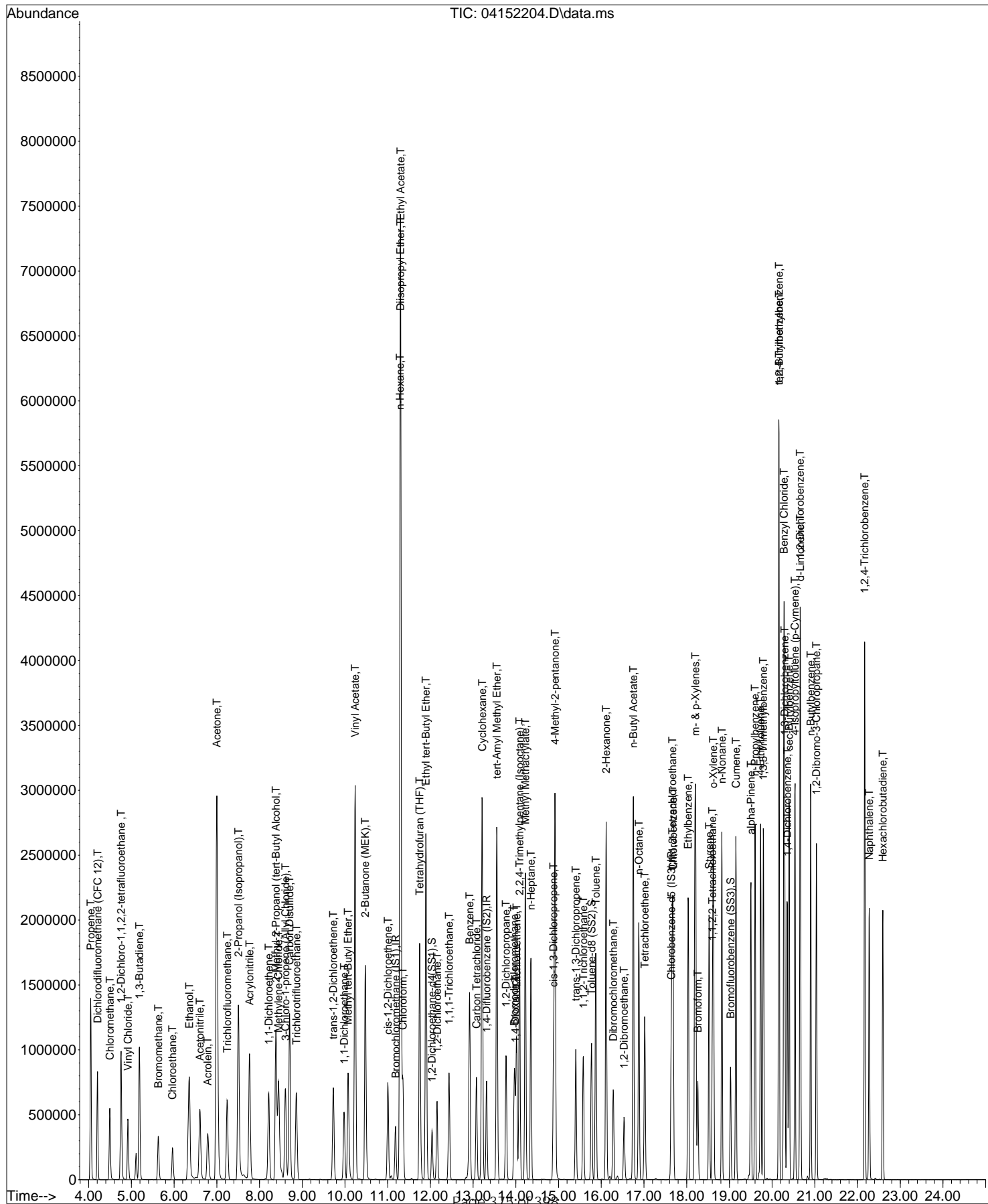
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
58) Toluene	15.87	91	1349575	23.825	ng	99
59) 2-Hexanone	16.11	43	2286970	52.406	ng	99
60) Dibromochloromethane	16.28	129	402716	25.415	ng	100
61) 1,2-Dibromoethane	16.53	107	373698	24.721	ng	99
62) n-Butyl Acetate	16.75	43	2584566	54.335	ng	99
63) n-Octane	16.88	57	354246	24.962	ng	98
64) Tetrachloroethene	17.02	166	373541	23.154	ng	100
65) Chlorobenzene	17.68	112	903472	23.701	ng	99
66) Ethylbenzene	18.03	91	1602606	24.858	ng	99
67) m- & p-Xylenes	18.20	91	2675663	51.647	ng	99
68) Bromoform	18.26	173	376090	27.440	ng	99
69) Styrene	18.53	104	966351	26.146	ng	99
70) o-Xylene	18.62	91	1391929	26.630	ng	99
71) n-Nonane	18.82	43	1045634	26.062	ng	100
72) 1,1,2,2-Tetrachloroethane	18.60	83	618090	26.561	ng	100
74) Cumene	19.15	105	1602982	24.326	ng	100
75) alpha-Pinene	19.50	93	805814	25.787	ng	97
76) n-Propylbenzene	19.60	91	1987250	25.084	ng	99
77) 3-Ethyltoluene	19.73	105	1618381	No Calib		
78) 4-Ethyltoluene	19.73	105	1618381	25.350	ng	99
79) 1,3,5-Trimethylbenzene	19.79	105	1370880	25.281	ng	100
80) alpha-Methylstyrene	19.60	118	3123	No Calib		
81) 2-Ethyltoluene	20.66	105	34664	No Calib		
82) 1,2,4-Trimethylbenzene	20.16	105	1502464	26.886	ng	100
83) n-Decane	20.52	58	1303	No Calib	#	
84) Benzyl Chloride	20.28	91	2470367	56.816	ng	100
85) 1,3-Dichlorobenzene	20.29	146	803773	24.989	ng	99
86) 1,4-Dichlorobenzene	20.36	146	790924	24.290	ng	99
87) sec-Butylbenzene	20.40	105	1812752	24.799	ng	99
88) 4-Isopropyltoluene (p-...)	20.54	119	1536951	24.782	ng	99
89) 1,2,3-Trimethylbenzene	20.40	105	1812752	No Calib		
90) 1,2-Dichlorobenzene	20.66	146	768630	24.700	ng	100
91) d-Limonene	20.66	68	543586	26.143	ng	99
92) 1,2-Dibromo-3-Chloropr...	21.04	157	576874	49.051	ng	93
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	22.17	180	1116060	43.012	ng	100
95) Naphthalene	22.28	128	1518196	21.584	ng	100
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	22.59	225	350034	20.300	ng	100
98) Cyclohexanone	18.62	55	1212	No Calib		
99) tert-Butylbenzene	20.16	119	1386081	25.797	ng	100
100) n-Butylbenzene	20.90	91	1526804	25.026	ng	99
101) 1,1,1,2-Tetrachloroethane	17.66	131	340949	24.497	ng	100

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

Data File : I:\MS09\DATA\2022 04\15\04152204.D
 Acq On : 15 Apr 2022 2:38
 Sample : LCS R9041522 25ng
 Misc : S35-04132201/S35-04082209 (5/8)

Vial: 2
 Operator: SC
 Inst : MS09

Quant Time: Apr 15 04:15:39 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2022 04\15\04152205.D
 Acq On : 15 Apr 2022 3:12
 Sample : LCSD R9041522_25ng
 Misc : S35-04132201/S35-04082209 (5/8)

Vial: 2
 Operator: SC
 Inst : MS09

Quant Time: Apr 15 04:15:41 2022

CG 4/15/22

Quant Method : I:\MS09\Methods\R9040722.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Thu Apr 07 16:31:14 2022

IDA 4/15/22

Response via : Initial Calibration

DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	11.18	130	146797	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	13.32	114	636065	12.500	ng	-0.01
56) Chlorobenzene-d5 (IS3)	17.64	54	170815	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	12.04	65	285338	12.707	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	101.68%	
57) Toluene-d8 (SS2)	15.77	98	741748	11.917	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	95.36%	
73) Bromofluorobenzene (SS3)	19.03	174	252057	11.498	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	92.00%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.04	42	521592	25.745	ng	100
3) Dichlorodifluoromethan...	4.20	85	704488	25.406	ng	100
4) Chloromethane	4.49	50	652638	28.354	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	4.75	135	324819	26.064	ng	99
6) Vinyl Chloride	4.91	62	534793	27.773	ng	100
7) 1,3-Butadiene	5.18	54	496077	28.828	ng	99
8) Bromomethane	5.63	94	268522	27.302	ng	99
9) Chloroethane	5.96	64	234201	26.596	ng	100
10) Ethanol	6.35	45	1579716	106.900	ng	100
11) Acetonitrile	6.60	41	870003	23.472	ng	99
12) Acrolein	6.79	56	487035	53.772	ng	100
13) Acetone	7.00	58	1462179	125.694	ng	99
14) Trichlorofluoromethane	7.24	101	637390	24.668	ng	100
15) 2-Propanol (Isopropanol)	7.50	45	2528300	54.985	ng	100
16) Acrylonitrile	7.76	53	1050055	51.936	ng	100
17) 1,1-Dichloroethene	8.21	96	309065	26.664	ng	96
18) 2-Methyl-2-Propanol (t...	8.38	59	1883196	63.998	ng	99
19) Methylene Chloride	8.44	84	313238	25.865	ng	97
20) 3-Chloro-1-propene (Al...	8.60	41	682923	25.105	ng	99
21) Trichlorotrifluoroethane	8.86	151	277377	25.093	ng	94
22) Carbon Disulfide	8.70	76	2255064	55.365	ng	100
23) trans-1,2-Dichloroethene	9.73	61	534647	27.761	ng	97
24) 1,1-Dichloroethane	9.98	63	636005	26.934	ng	100
25) Methyl tert-Butyl Ether	10.07	73	827692	25.711	ng	99
26) Vinyl Acetate	10.24	86	327624	156.609	ng	# 94
27) 2-Butanone (MEK)	10.48	72	442970	54.510	ng	98
28) cis-1,2-Dichloroethene	11.00	61	513803	26.582	ng	98
29) Diisopropyl Ether	11.30	87	648121	57.766	ng	# 67
30) Ethyl Acetate	11.31	61	466052	80.300	ng	99
31) n-Hexane	11.29	57	750751	28.701	ng	100
32) Chloroform	11.36	83	606803	26.735	ng	99
34) Tetrahydrofuran (THF)	11.75	72	416561	53.411	ng	98
35) Ethyl tert-Butyl Ether	11.90	87	833765	55.619	ng	98
36) 1,2-Dichloroethane	12.15	62	534004	26.651	ng	100
38) 1,1,1-Trichloroethane	12.44	97	563385	25.870	ng	99
39) Isopropyl Acetate	13.31	61	22295	No Calib		
40) 1-Butanol	12.91	56	9705	No Calib		#
41) Benzene	12.92	78	1264872	25.688	ng	100
42) Carbon Tetrachloride	13.08	117	480898	25.396	ng	100
43) Cyclohexane	13.21	84	989225	52.408	ng	98
44) tert-Amyl Methyl Ether	13.55	73	1965087	56.577	ng	98
45) 1,2-Dichloropropane	13.77	63	361026	26.170	ng	100
46) Bromodichloromethane	13.96	83	491269	27.383	ng	100
47) Trichloroethene	14.02	130	345722	24.633	ng	100
48) 1,4-Dioxane	13.99	88	270710	27.268	ng	98
49) 2,2,4-Trimethylpentane...	14.09	57	1668380	25.640	ng	98
50) Methyl Methacrylate	14.22	100	270809	54.881	ng	95
51) n-Heptane	14.35	71	338629	26.343	ng	99
52) cis-1,3-Dichloropropene	14.88	75	568541	28.745	ng	100
53) 4-Methyl-2-pentanone	14.92	58	769734	55.229	ng	98
54) trans-1,3-Dichloropropene	15.40	75	530081	27.877	ng	100
55) 1,1,2-Trichloroethane	15.58	97	222613	25.529	ng	99

Data File : I:\MS09\DATA\2022 04\15\04152205.D
 Acq On : 15 Apr 2022 3:12
 Sample : LCSD R9041522_25ng
 Misc : S35-04132201/S35-04082209 (5/8)

Vial: 2
 Operator: SC
 Inst : MS09

Quant Time: Apr 15 04:15:41 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

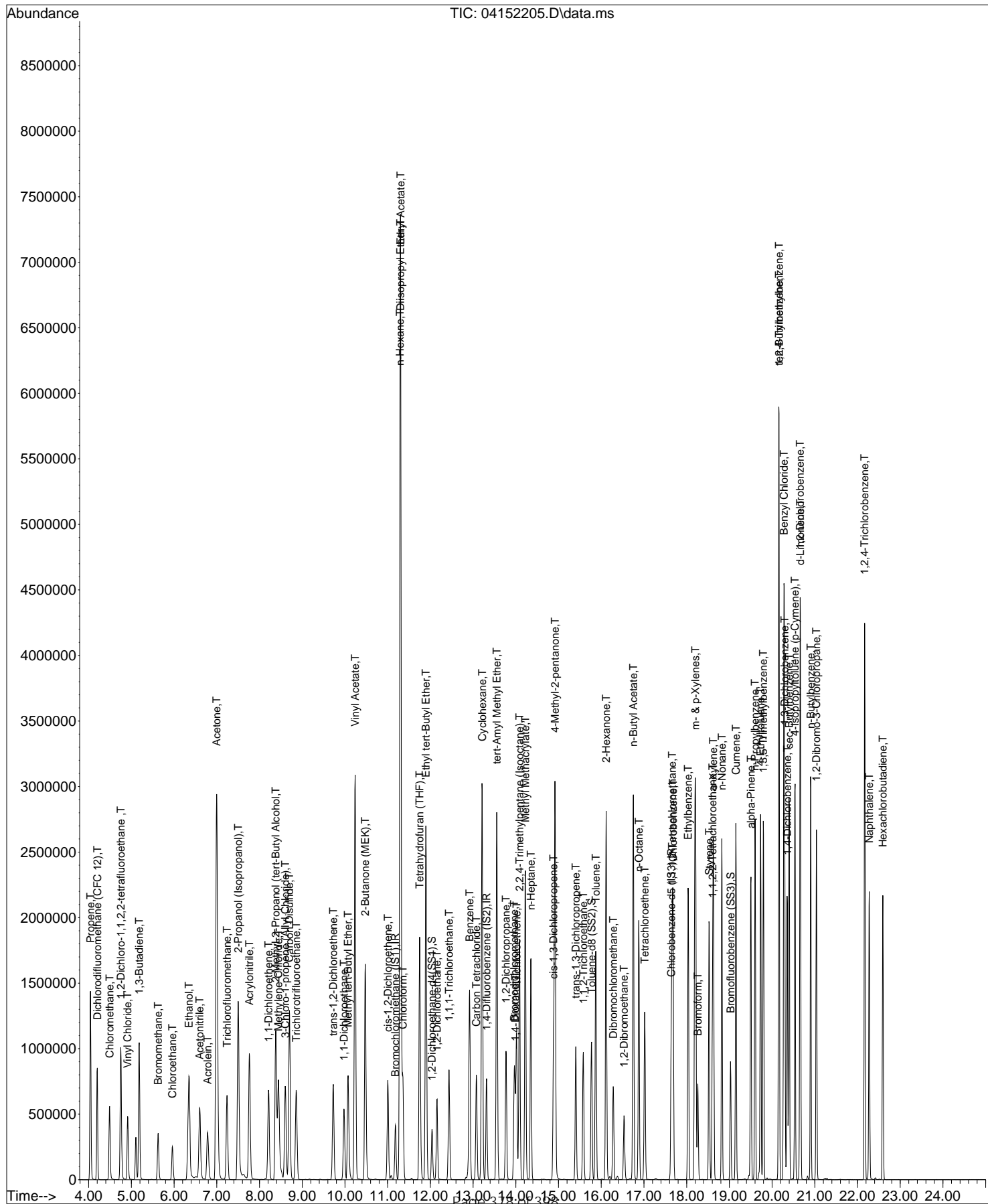
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
58) Toluene	15.87	91	1363094	23.816	ng	99
59) 2-Hexanone	16.11	43	2305585	52.290	ng	99
60) Dibromochloromethane	16.28	129	409052	25.549	ng	100
61) 1,2-Dibromoethane	16.53	107	379078	24.819	ng	100
62) n-Butyl Acetate	16.75	43	2583869	53.762	ng	99
63) n-Octane	16.88	57	356442	24.859	ng	98
64) Tetrachloroethene	17.02	166	380275	23.329	ng	100
65) Chlorobenzene	17.68	112	915116	23.759	ng	100
66) Ethylbenzene	18.03	91	1617610	24.832	ng	99
67) m- & p-Xylenes	18.20	91	2653269	50.688	ng	99
68) Bromoform	18.26	173	357358	25.805	ng	100
69) Styrene	18.53	104	922782	24.710	ng	100
70) o-Xylene	18.62	91	1330819	25.199	ng	99
71) n-Nonane	18.82	43	1024660	25.277	ng	99
72) 1,1,2,2-Tetrachloroethane	18.61	83	598921	25.473	ng	100
74) Cumene	19.15	105	1644059	24.693	ng	100
75) alpha-Pinene	19.50	93	815350	25.824	ng	97
76) n-Propylbenzene	19.60	91	2013004	25.148	ng	99
77) 3-Ethyltoluene	19.73	105	1639712	No Calib		
78) 4-Ethyltoluene	19.73	105	1639712	25.420	ng	99
79) 1,3,5-Trimethylbenzene	19.79	105	1387457	25.324	ng	100
80) alpha-Methylstyrene	19.60	118	3237	No Calib	#	
81) 2-Ethyltoluene	20.66	105	35879	No Calib		
82) 1,2,4-Trimethylbenzene	20.16	105	1519507	26.911	ng	99
83) n-Decane	20.52	58	1257	No Calib	#	
84) Benzyl Chloride	20.28	91	2525039	57.477	ng	100
85) 1,3-Dichlorobenzene	20.29	146	821122	25.266	ng	100
86) 1,4-Dichlorobenzene	20.36	146	791666	24.063	ng	100
87) sec-Butylbenzene	20.40	105	1828825	24.762	ng	100
88) 4-Isopropyltoluene (p-...)	20.54	119	1548270	24.707	ng	99
89) 1,2,3-Trimethylbenzene	20.40	105	1828825	No Calib		
90) 1,2-Dichlorobenzene	20.66	146	775612	24.668	ng	100
91) d-Limonene	20.66	68	552630	26.304	ng	99
92) 1,2-Dibromo-3-Chloropr...	21.04	157	588081	49.490	ng	93
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	22.17	180	1155717	44.082	ng	100
95) Naphthalene	22.28	128	1592392	22.406	ng	100
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	22.59	225	365864	21.000	ng	99
98) Cyclohexanone	18.63	55	1357	No Calib		
99) tert-Butylbenzene	20.16	119	1399423	25.777	ng	99
100) n-Butylbenzene	20.90	91	1537615	24.944	ng	99
101) 1,1,1,2-Tetrachloroethane	17.66	131	344898	24.526	ng	99

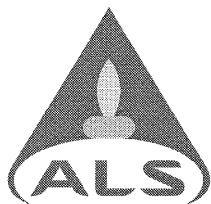
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS09\DATA\2022 04\15\04152205.D
 Acq On : 15 Apr 2022 3:12
 Sample : LCSD R9041522 25ng
 Misc : S35-04132201/S35-04082209 (5/8)

Vial: 2
 Operator: SC
 Inst : MS09

Quant Time: Apr 15 04:15:41 2022
 Quant Method : I:\MS09\Methods\R9040722.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Apr 07 16:31:14 2022
 Response via : Initial Calibration
 DataAcq Meth:TO15.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:

$$\%D = \left(\frac{\overline{RRF} - RRF \text{ cont}}{\overline{RRF}} \right) (100)$$

\overline{RRF} average relative response factor from the initial calibration

$RRF \text{ cont}$ 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:

$$ng_x = \frac{A_x ng_{is}}{A_{is} \overline{RRF}}$$

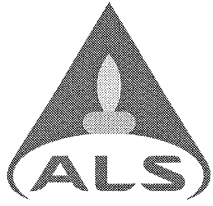
ng_x nanogram concentration of analyte x

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-05

Cycles: 30

Batch: 29100

Batch Started By: on 3/16/22 0427
 Finished Cleaning By: on 3/18/22 1233

Container IDs	Cleaned Date	QC Date Analyzed	QC Results	Initial Vacuum		Final Vacuum		Comments
				Vacuum	Date/Time	User	Vacuum	
AC02150	3/16/22	3/17/22	Pass w/ Conditions	-14.3	3/18/22 1233	-14.0	3/30/22 1137	MS21_03/17/22
AS00132	3/16/22	3/17/22	Pass w/ Conditions	-14.3	3/18/22 1233	-14.0	3/28/22 0915	
AS00036	3/16/22	3/17/22	Pass w/ Conditions	-14.3	3/18/22 1233	-14.0	3/25/22 0923	
AC01786	3/16/22	3/17/22	Pass w/ Conditions	-14.3	3/18/22 1233	-14.0	3/18/22 1247	
AS000903	3/16/22	3/17/22	Pass w/ Conditions	-14.3	3/18/22 1233	-14.0	3/22/22 0930	
AS01089	3/16/22	3/17/22	Pass w/ Conditions	-14.3	3/18/22 1233	-14.0	4/6/22 0833	
AS00260	3/16/22	3/17/22	Pass w/ Conditions	-14.3	3/18/22 1233	-14.0	3/22/22 0930	
AC02409	3/16/22	3/17/22	Pass w/ Conditions	-14.3	3/18/22 1233	-14.0	3/24/22 1001	
AS01434	3/16/22	3/17/22	Pass w/ Conditions	-14.3	3/18/22 1233	-14.0	3/25/22 0923	
AC01909	3/16/22	3/17/22	Pass w/ Conditions	-14.3	3/18/22 1233	-14.0	3/22/22 0930	
AS00411	3/16/22	3/17/22	Pass w/ Conditions	-14.3	3/18/22 1233	-14.0	3/22/22 1020	
AC02177	3/16/22	3/17/22	Pass w/ Conditions	-14.3	3/18/22 1233	-14.0	3/28/22 0915	
AS00956	3/16/22	3/17/22	Pass w/ Conditions	-14.3	3/18/22 1233	-14.0	3/25/22 0923	
AS01333	3/16/22	3/17/22	Pass w/ Conditions	-14.3	3/18/22 1233	-14.0	3/18/22 1247	
AS01683	3/16/22	3/17/22	Pass w/ Conditions	-14.3	3/18/22 1233	-14.0	4/6/22 0833	

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\2022 03\17\
 Data File : 03172208.D
 Acq On : 17 Mar 2022 14:35
 Operator : RVT
 Sample : 031722 AC02150 29100
 Misc : LL+TICS (Sig #1); S35-02102202 (Sig #2)
 ALS Vial : 204 Sample Multiplier: 1

RVT 3/23/22

Quant Time: Mar 18 06:47:19 2022
 Quant Method : I:\MS21\Methods\F21120721.M
 Quant Title : EPA TO-15
 QLast Update : Wed Dec 08 08:58:32 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.492	130	29091	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.654	114	93985	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.678	54	7393	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.298	65	40104	879.60	pg	0.00
Spiked Amount	1000.000		Recovery	=	87.96%	
57) Toluene-d8 (SS2)	12.569	98	98861	2635.68	pg	0.00
Spiked Amount	1000.000		Recovery	=	263.57%	
74) Bromofluorobenzene (SS3)	16.111	174	10195	669.82	pg	0.00
Spiked Amount	1000.000		Recovery	=	66.98%	
Target Compounds						
2] * Propene	3.523	42	710	21.24	pg	Qvalue # 36
3] * Dichlorodifluoromethane	0.000		0	N.D.		
4] * Chloromethane	3.686	50	363	6.22	pg	99
5] * 1,2-Dichloro-1,1,2,2...	0.000		0	N.D.		
6] * Vinyl Chloride	0.000		0	N.D.		
7] * 1,3-Butadiene	3.961	54	17	0.41	pg	# 12
8] * Bromomethane	0.000		0	N.D.		
9] * Chloroethane	0.000		0	N.D.		
10] * Ethanol	4.438	45	579	30.13	pg	91
11] * Acetonitrile	4.599	41	157	4.43	pg	86
12] * Acrolein	4.698	56	451	21.50	pg	92
13] * Acetone	4.818	58	4800	147.60	pg	# 64
14] * Trichlorofluoromethane	4.830	101	175	1.82	pg	# 1
15] * 2-Propanol (Isopropa...	5.027	45	211	2.48	pg	# 60
16] * Acrylonitrile	0.000		0	N.D.		
17] * 1,1-Dichloroethene	5.416	96	418	7.55	pg	# 80
18] tert-Butanol	0.000		0	N.D.		
19] * Methylene Chloride	5.528	84	269	5.89	pg	89
20] * 3-Chloro-1-propene (...)	0.000		0	N.D.		
21] * Trichlorotrifluoroet...	0.000		0	N.D.		
22] * Carbon Disulfide	5.790	76	3537	22.14	pg	100
23] * trans-1,2-Dichloroet...	0.000		0	N.D.		
24] * 1,1-Dichloroethane	0.000		0	N.D.		
25] * Methyl tert-Butyl Ether	0.000		0	N.D.		
26] * Vinyl Acetate	0.000		0	N.D.		
27] * 2-Butanone (MEK)	6.947	72	206	8.11	pg	88
28] * cis-1,2-Dichloroethene	0.000		0	N.D.		
29] DIPE	7.602	45	128	1.10	pg	# 45
30] * Ethyl Acetate	7.602	61	122	9.56	pg	# 72
31] * n-Hexane	7.576	57	214	3.77	pg	# 55
32] * Chloroform	0.000		0	N.D.		
34] * Tetrahydrofuran	0.000		0	N.D.		
35] ETBE	0.000		0	N.D.		
36] * 1,2-Dichloroethane	0.000		0	N.D.		
38] * 1,1,1-Trichloroethane	0.000		0	N.D.		
39] * Benzene	9.232	78	933	7.92	pg	97
40] Isopropyl Acetate	0.000		0	N.D.		
41] 1-Butanol	9.154	56	247	No	Calib	
42] * Carbon Tetrachloride	0.000		0	N.D.		
43] * Cyclohexane	0.000		0	N.D.		
44] TAME	0.000		0	N.D.		
45] * 1,2-Dichloropropane	0.000		0	N.D.		
46] * Bromodichloromethane	0.000		0	N.D.		
47] * Trichloroethene	0.000		0	N.D.		

Data Path : I:\MS21\DATA\2022 03\17\
 Data File : 03172208.D
 Acq On : 17 Mar 2022 14:35
 Operator : RVT
 Sample : 031722 AC02150 29100
 Misc : LL+TICS (Sig #1); S35-02102202 (Sig #2)
 ALS Vial : 204 Sample Multiplier: 1

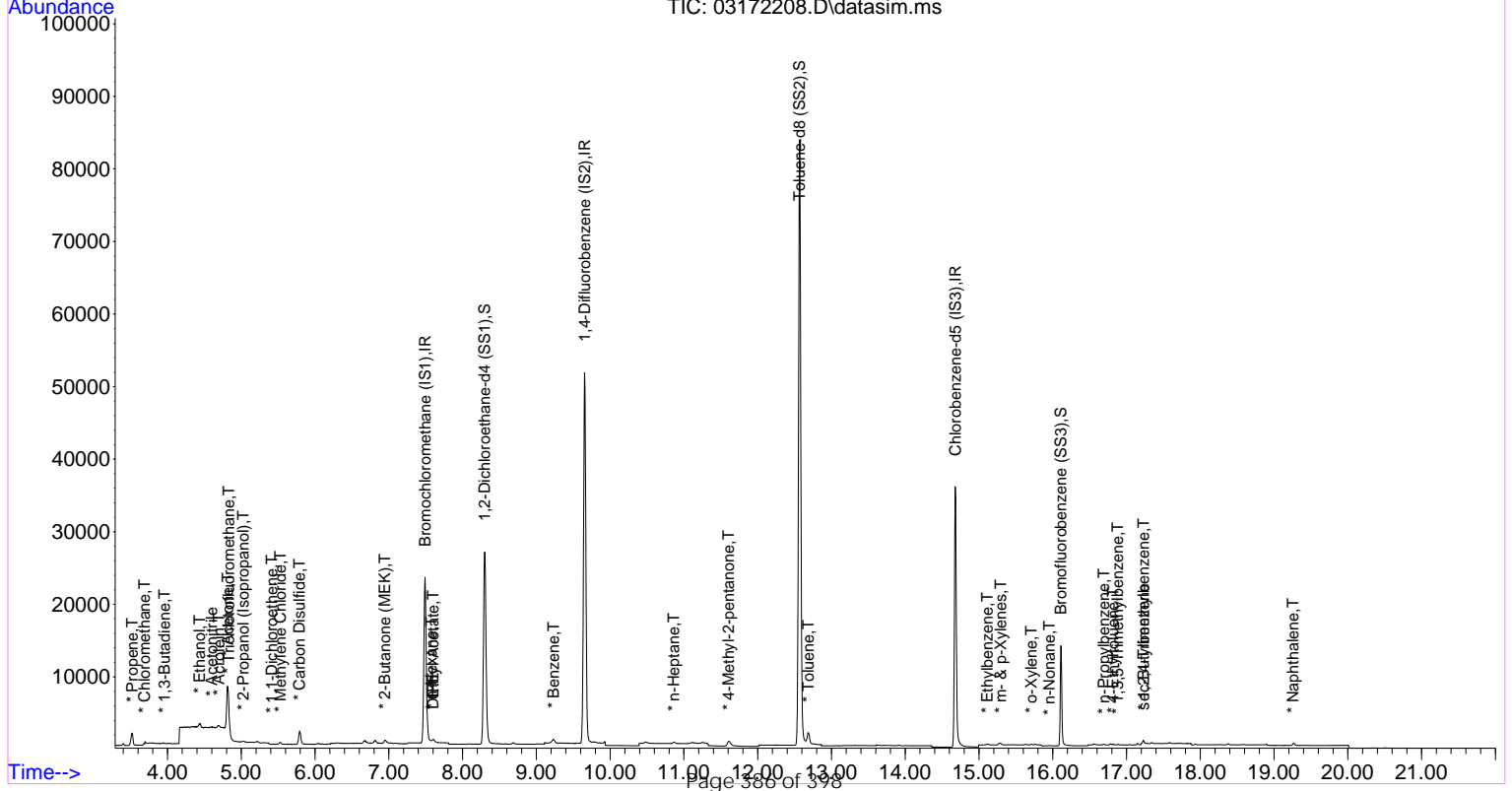
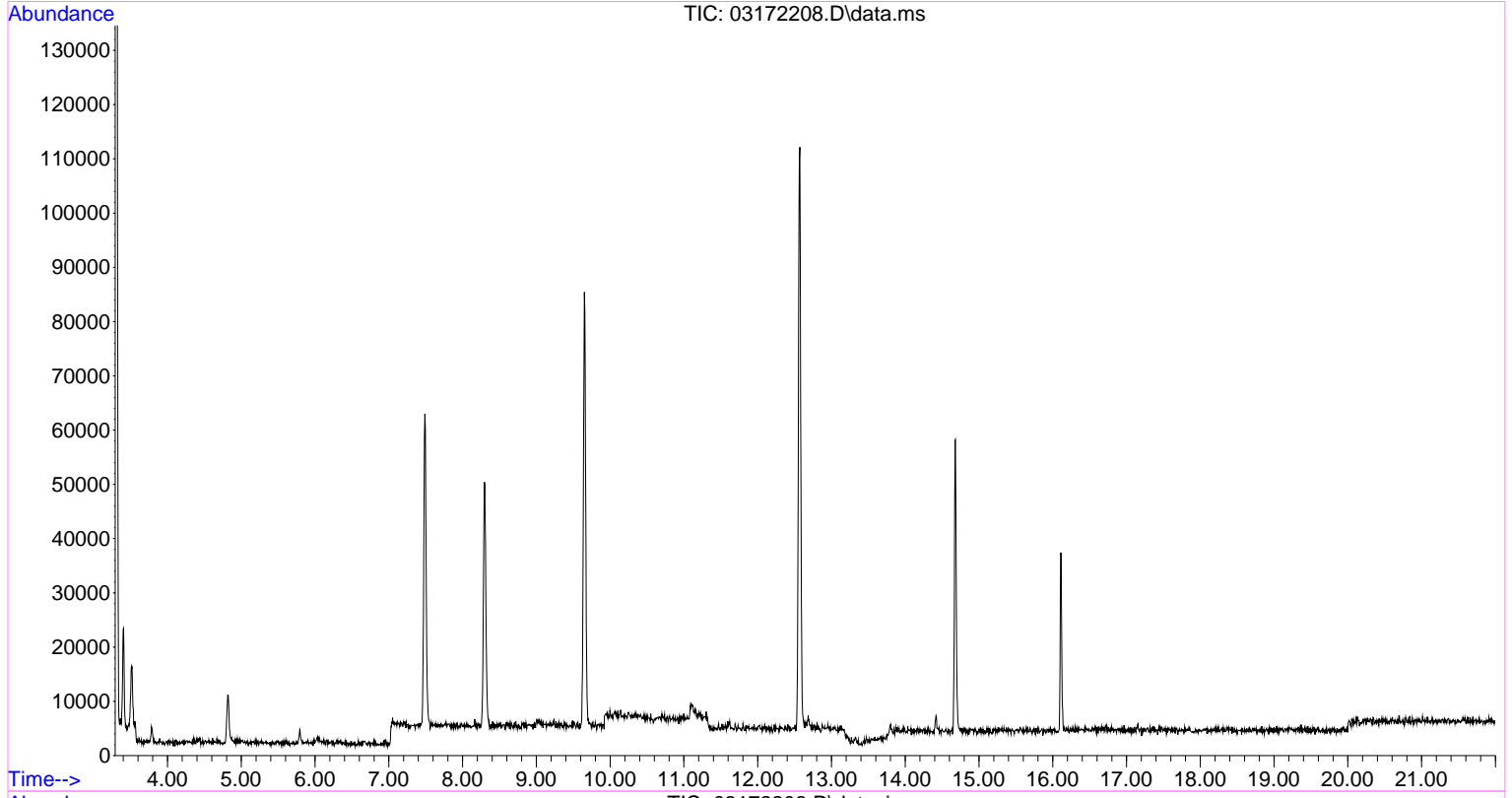
Quant Time: Mar 18 06:47:19 2022
 Quant Method : I:\MS21\Methods\F21120721.M
 Quant Title : EPA TO-15
 QLast Update : Wed Dec 08 08:58:32 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
48) * 1,4-Dioxane	0.000		0	N.D.		
49) Isooctane	0.000		0	N.D.		
50) * Methyl Methacrylate	0.000		0	N.D.		
51] * n-Heptane	10.864	71	125	3.87	pg #	41
52) * cis-1,3-Dichloropropene	0.000		0	N.D.		
53] * 4-Methyl-2-pentanone	11.607	58	574	25.99	pg #	80
54) * trans-1,3-Dichloropr...	0.000		0	N.D.		
55) * 1,1,2-Trichloroethane	0.000		0	N.D.		
58] * Toluene	12.688	91	1929	38.75	pg	100
59) * 2-Hexanone	0.000		0	N.D.		
60) * Dibromochloromethane	0.000		0	N.D.		
61) * 1,2-Dibromoethane	0.000		0	N.D.		
62) * n-Butyl Acetate	0.000		0	N.D.		
63) * n-Octane	0.000		0	N.D.		
64) * Tetrachloroethene	0.000		0	N.D.		
65) * Chlorobenzene	0.000		0	N.D.		
66] * Ethylbenzene	15.112	91	171	2.66	pg #	43
67] * m- & p-Xylenes	15.295	91	109	2.18	pg #	29
68) * Bromoform	0.000		0	N.D.		
69) Cyclohexanone	0.000		0	N.D.		
70) * Styrene	0.000		0	N.D.		
71] * o-Xylene	15.711	91	122	2.43	pg	88
72] * n-Nonane	15.951	57	85	4.94	pg #	31
73) * 1,1,2,2-Tetrachloroe...	0.000		0	N.D.		
75) * Cumene	0.000		0	N.D.		
76) * alpha-Pinene	0.000		0	N.D.		
77] * n-Propylbenzene	16.692	91	101	1.47	pg #	52
78) 3-Ethyltoluene	16.818	105	83	No Calib	#	
79] * 4-Ethyltoluene	16.818	105	83	1.64	pg #	45
80] * 1,3,5-Trimethylbenzene	16.881	105	73	1.55	pg #	28
81) alpha-Methylstyrene	0.000		0	N.D.		
82) 2-Ethyltoluene	17.041	105	50	No Calib	#	
83) tert-Butylbenzene	0.000		0	N.D.		
84] * 1,2,4-Trimethylbenzene	17.229	105	341	7.50	pg	95
85) * Benzyl Chloride	0.000		0	N.D.		
86) * 1,3-Dichlorobenzene	0.000		0	N.D.		
87) * 1,4-Dichlorobenzene	0.000		0	N.D.		
88) n-Decane	0.000		0	N.D.		
89] sec-Butylbenzene	17.229	105	341	7.58	pg #	51
90) 1,2,3-Trimethylbenzene	17.580	105	95	No Calib	#	
91) p-Isopropyltoluene	0.000		0	N.D.		
92) * 1,2-Dichlorobenzene	0.000		0	N.D.		
93) * D-Limonene	0.000		0	N.D.		
94) n-Butylbenzene	0.000		0	N.D.		
95) * 1,2-Dibromo-3-chloro...	0.000		0	N.D.		
96) n-Undecane	0.000		0	N.D.		
97) * 1,2,4-Trichlorobenzene	0.000		0	N.D.		
98] * Naphthalene	19.257	128	300	9.86	pg #	69
99) n-Dodecane	19.280	85	51	No Calib	#	
100) * Hexachlorobutadiene	0.000		0	N.D.		

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

Data Path : I:\MS21\DATA\2022 03\17\
 Data File : 03172208.D
 Acq On : 17 Mar 2022 14:35
 Operator : RVT
 Sample : 031722 AC02150 29100
 Misc : LL+TICS (Sig #1); S35-02102202 (Sig #2)
 ALS Vial : 204 Sample Multiplier: 1

Quant Time: Mar 18 06:47:19 2022
 Quant Method : I:\MS21\Methods\F21120721.M
 Quant Title : EPA TO-15
 QLast Update : Wed Dec 08 08:58:32 2021
 Response via : Initial Calibration



SIMIVALLEY QC Certification

Conditioner: P-Conditioner-03

Cycles: 30

Batch: 29099

Batch Started By: on 3/16/22 0426
 Finished Cleaning By: EVAN.GARCIA on 4/4/22 1005

Container IDs	Cleaned Date	QC Date Analyzed	QC Results	Initial Vacuum		Final Vacuum		Comments	
				Vacuum	Date/Time	User	Vacuum		Date/Time
AC01782	3/16/22	3/17/22	Pass w/ Conditions	-14.3	4/4/22 1005	EVAN.GARCIA	-14.0	4/8/22 0946	
AC02183	3/16/22	3/17/22	Pass w/ Conditions	-14.3	4/4/22 1005	EVAN.GARCIA	-14.0	4/5/22 0823	GC22_040422
AC02308	3/16/22	3/17/22	Pass w/ Conditions	-14.3	4/4/22 1005	EVAN.GARCIA	-14.0	3/24/22 1001	
AC02362	3/16/22	3/17/22	Pass w/ Conditions	-14.3	4/4/22 1005	EVAN.GARCIA	-14.0	3/24/22 1001	
AC01105	3/16/22	3/17/22	Pass w/ Conditions	-14.3	4/4/22 1005	EVAN.GARCIA	-14.0	3/24/22 1001	
AC02128	3/16/22	3/17/22	Pass w/ Conditions	-14.3	4/4/22 1005	EVAN.GARCIA	-14.0	4/6/22 0833	
AS00720	3/16/22	3/17/22	Pass w/ Conditions	-14.3	4/4/22 1005	EVAN.GARCIA	-14.0	3/30/22 1137	MS21_03/17/22
AC01623	3/16/22	3/17/22	Pass w/ Conditions	-14.3	4/4/22 1005	EVAN.GARCIA	-14.0	4/4/22 1034	
AS01483	3/16/22	3/17/22	Pass w/ Conditions	-14.3	4/4/22 1005	EVAN.GARCIA	-14.0	3/24/22 1001	
AC02307	3/16/22	3/17/22	Pass w/ Conditions	-14.3	4/4/22 1005	EVAN.GARCIA	-14.0	4/6/22 0833	
AS01657	3/16/22	3/17/22	Pass w/ Conditions	-14.3	4/4/22 1005	EVAN.GARCIA	-14.0		
AC01190	3/16/22	3/17/22	Pass w/ Conditions	-14.3	4/4/22 1005	EVAN.GARCIA	-14.0		
AC02474	3/16/22	3/17/22	Pass w/ Conditions	-14.3	4/4/22 1005	EVAN.GARCIA	-14.0	3/24/22 1001	

Passed For: TO-15 (75 Comp 0.1 ug/m3 + TICs)

Exceptions:

COMPONENTID Date / Time MODULE USER COMMENTS

Batch Comment:

* QC Canister

Data Path : I:\MS21\DATA\2022 03\17\
 Data File : 03172207.D
 Acq On : 17 Mar 2022 13:55
 Operator : RVT
 Sample : 031722 AC01623 29099
 Misc : LL+TICS (Sig #1); S35-02102202 (Sig #2)
 ALS Vial : 203 Sample Multiplier: 1

RVT 3/23/22

Quant Time: Mar 18 06:47:10 2022
 Quant Method : I:\MS21\Methods\F21120721.M
 Quant Title : EPA TO-15
 QLast Update : Wed Dec 08 08:58:32 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.492	130	26149	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.654	114	84383	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.678	54	7634	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.298	65	38306	934.69	pg	0.00
Spiked Amount	1000.000		Recovery	=	93.47%	
57) Toluene-d8 (SS2)	12.569	98	90846	2345.54	pg	0.00
Spiked Amount	1000.000		Recovery	=	234.55%	
74) Bromofluorobenzene (SS3)	16.111	174	10277	653.89	pg	0.00
Spiked Amount	1000.000		Recovery	=	65.39%	
Target Compounds						
2] * Propene	3.514	42	677	22.54	pg	Qvalue # 32
3] * Dichlorodifluoromethane	3.557	85	76	0.90	pg	# 42
4] * Chloromethane	3.686	50	237	4.52	pg	# 88
5] * 1,2-Dichloro-1,1,2,2...	0.000		0	N.D.		
6] * Vinyl Chloride	0.000		0	N.D.		
7] * 1,3-Butadiene	3.956	54	25	0.67	pg	# 1
8] * Bromomethane	0.000		0	N.D.		
9] * Chloroethane	0.000		0	N.D.		
10] * Ethanol	4.438	45	441	25.53	pg	96
11] * Acetonitrile	0.000		0	N.D.		
12] * Acrolein	4.688	56	504	26.73	pg	90
13] * Acetone	4.818	58	5931	202.89	pg	# 66
14] * Trichlorofluoromethane	4.931	101	153	1.77	pg	# 1
15] * 2-Propanol (Isopropa...	0.000		0	N.D.		
16] * Acrylonitrile	5.163	53	52	1.26	pg	# 9
17] * 1,1-Dichloroethene	5.382	96	126	2.53	pg	# 1
18] tert-Butanol	0.000		0	N.D.		
19] * Methylene Chloride	5.528	84	227	5.53	pg	94
20] * 3-Chloro-1-propene (...)	0.000		0	N.D.		
21] * Trichlorotrifluoroet...	0.000		0	N.D.		
22] * Carbon Disulfide	5.800	76	5917	41.21	pg	99
23] * trans-1,2-Dichloroet...	0.000		0	N.D.		
24] * 1,1-Dichloroethane	0.000		0	N.D.		
25] * Methyl tert-Butyl Ether	0.000		0	N.D.		
26] * Vinyl Acetate	6.671	86	341	39.61	pg	# 18
27] * 2-Butanone (MEK)	6.957	72	98	4.29	pg	# 1
28] * cis-1,2-Dichloroethene	0.000		0	N.D.		
29] DIPE	7.615	45	77	0.74	pg	# 45
30] * Ethyl Acetate	7.621	61	90	7.85	pg	# 67
31] * n-Hexane	0.000		0	N.D.		
32] * Chloroform	0.000		0	N.D.		
34] * Tetrahydrofuran	0.000		0	N.D.		
35] ETBE	0.000		0	N.D.		
36] * 1,2-Dichloroethane	0.000		0	N.D.		
38] * 1,1,1-Trichloroethane	0.000		0	N.D.		
39] * Benzene	9.232	78	367	3.47	pg	# 79
40] Isopropyl Acetate	9.201	61	406	No Calib		#
41] 1-Butanol	9.122	56	278	No Calib		#
42] * Carbon Tetrachloride	0.000		0	N.D.		
43] * Cyclohexane	0.000		0	N.D.		
44] TAME	0.000		0	N.D.		
45] * 1,2-Dichloropropane	0.000		0	N.D.		
46] * Bromodichloromethane	0.000		0	N.D.		
47] * Trichloroethene	0.000		0	N.D.		

Data Path : I:\MS21\DATA\2022 03\17\
 Data File : 03172207.D
 Acq On : 17 Mar 2022 13:55
 Operator : RVT
 Sample : 031722 AC01623 29099
 Misc : LL+TICS (Sig #1); S35-02102202 (Sig #2)
 ALS Vial : 203 Sample Multiplier: 1

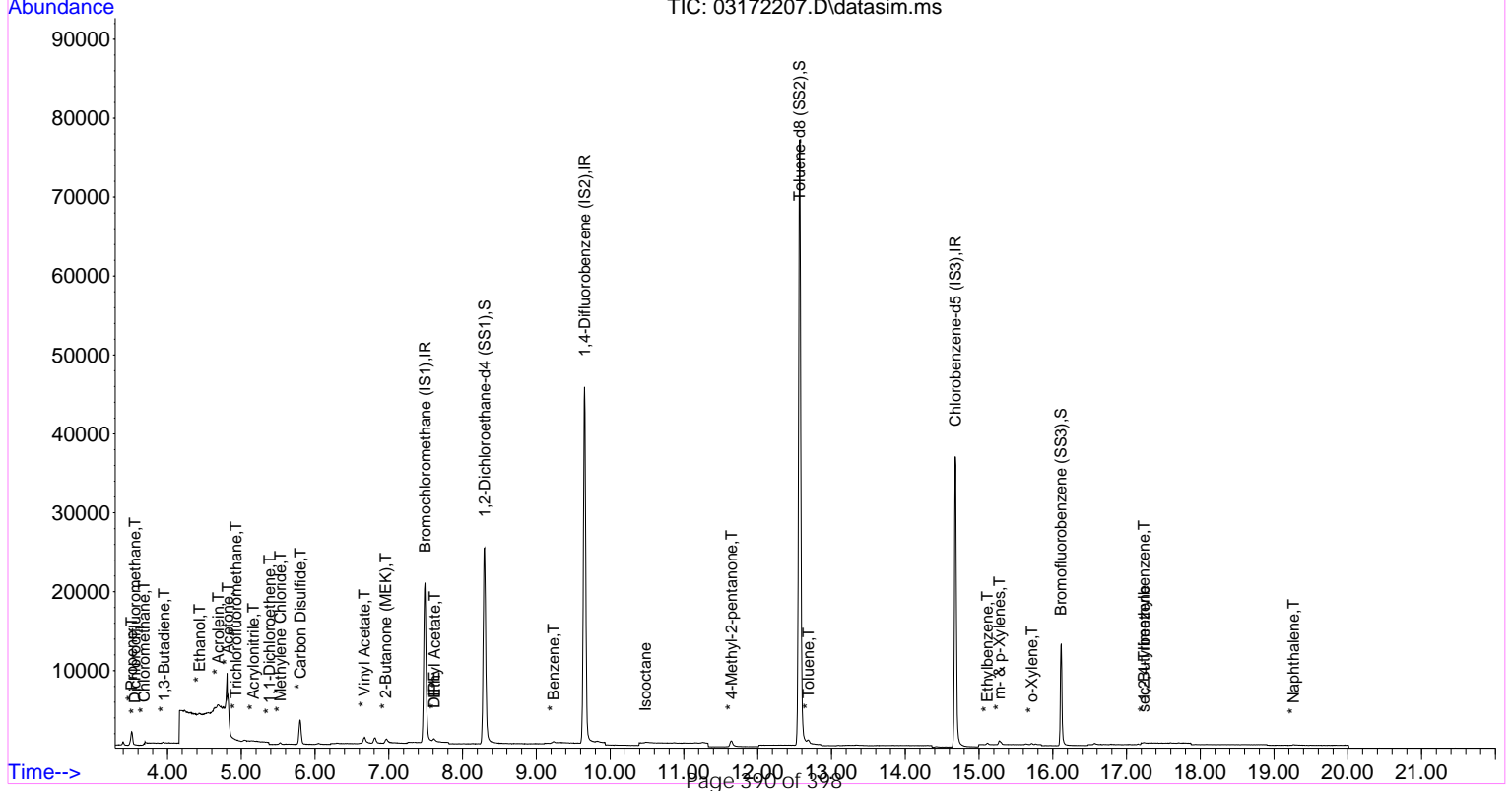
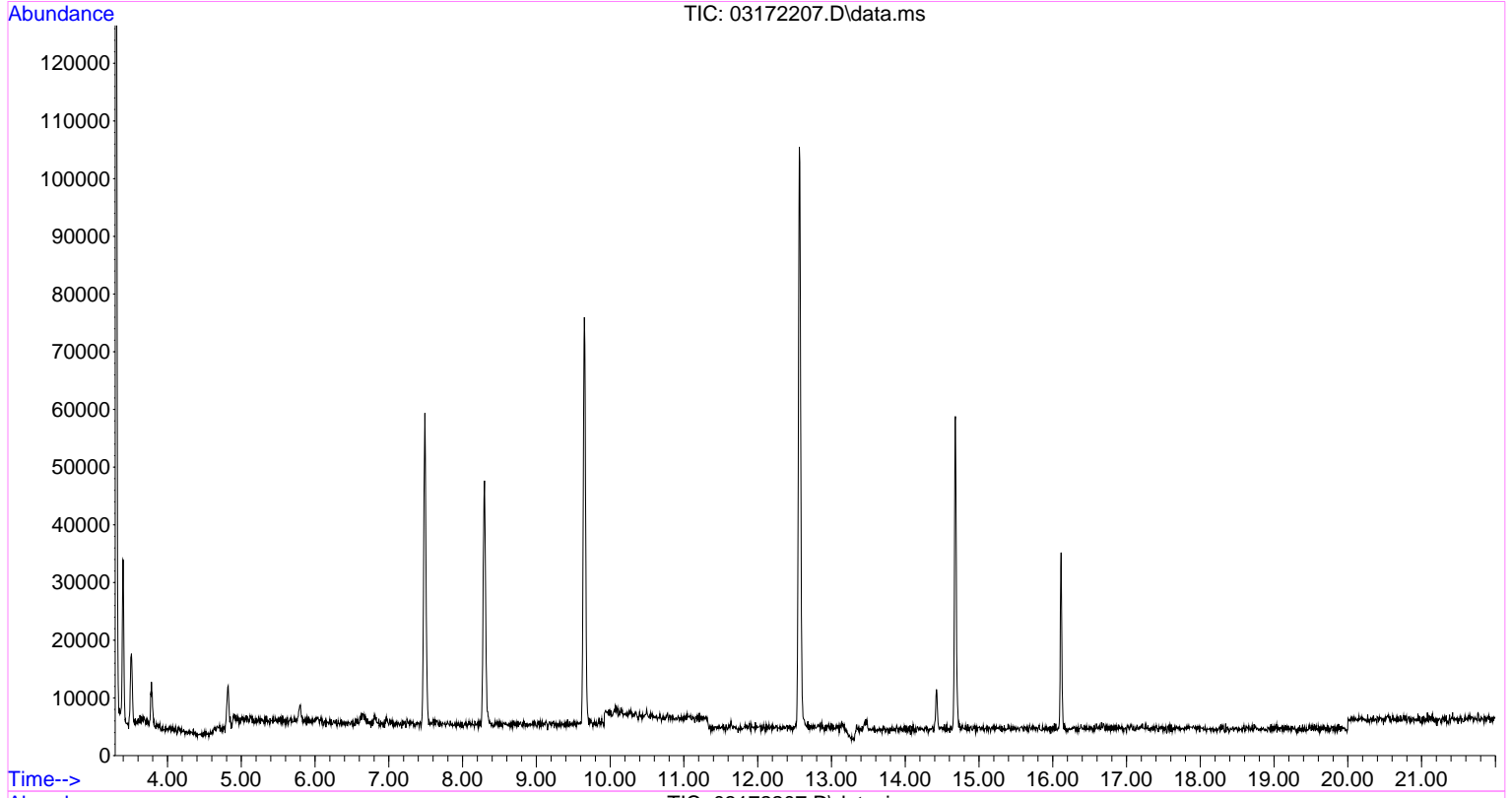
Quant Time: Mar 18 06:47:10 2022
 Quant Method : I:\MS21\Methods\F21120721.M
 Quant Title : EPA TO-15
 QLast Update : Wed Dec 08 08:58:32 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) * 1,4-Dioxane	0.000		0	N.D.		
49] Isooctane	10.478	56	367	8.29	pg	# 1
50) * Methyl Methacrylate	0.000		0	N.D.		
51) * n-Heptane	0.000		0	N.D.		
52) * cis-1,3-Dichloropropene	0.000		0	N.D.		
53] * 4-Methyl-2-pentanone	11.647	58	560	28.24	pg	# 82
54) * trans-1,3-Dichloropr...	0.000		0	N.D.		
55) * 1,1,2-Trichloroethane	0.000		0	N.D.		
58] * Toluene	12.688	91	446	8.68	pg	99
59) * 2-Hexanone	0.000		0	N.D.		
60) * Dibromochloromethane	0.000		0	N.D.		
61) * 1,2-Dibromoethane	0.000		0	N.D.		
62) * n-Butyl Acetate	0.000		0	N.D.		
63) * n-Octane	0.000		0	N.D.		
64) * Tetrachloroethene	0.000		0	N.D.		
65) * Chlorobenzene	0.000		0	N.D.		
66] * Ethylbenzene	15.112	91	202	3.04	pg	# 82
67] * m- & p-Xylenes	15.278	91	721	13.96	pg	99
68) * Bromoform	0.000		0	N.D.		
69) Cyclohexanone	0.000		0	N.D.		
70) * Styrene	0.000		0	N.D.		
71] * o-Xylene	15.716	91	160	3.09	pg	98
72) * n-Nonane	0.000		0	N.D.		
73) * 1,1,2,2-Tetrachloroe...	0.000		0	N.D.		
75) * Cumene	0.000		0	N.D.		
76) * alpha-Pinene	0.000		0	N.D.		
77) * n-Propylbenzene	0.000		0	N.D.		
78) 3-Ethyltoluene	0.000		0	N.D.		
79) * 4-Ethyltoluene	0.000		0	N.D.		
80) * 1,3,5-Trimethylbenzene	0.000		0	N.D.		
81) alpha-Methylstyrene	0.000		0	N.D.		
82) 2-Ethyltoluene	0.000		0	N.D.		
83) tert-Butylbenzene	0.000		0	N.D.		
84] * 1,2,4-Trimethylbenzene	17.234	105	63	1.34	pg	# 24
85) * Benzyl Chloride	0.000		0	N.D.		
86) * 1,3-Dichlorobenzene	0.000		0	N.D.		
87) * 1,4-Dichlorobenzene	0.000		0	N.D.		
88) n-Decane	0.000		0	N.D.		
89] sec-Butylbenzene	17.234	105	63	1.36	pg	# 51
90) 1,2,3-Trimethylbenzene	0.000		0	N.D.		
91) p-Isopropyltoluene	0.000		0	N.D.		
92) * 1,2-Dichlorobenzene	0.000		0	N.D.		
93) * D-Limonene	0.000		0	N.D.		
94) n-Butylbenzene	0.000		0	N.D.		
95) * 1,2-Dibromo-3-chloro...	0.000		0	N.D.		
96) n-Undecane	0.000		0	N.D.		
97) * 1,2,4-Trichlorobenzene	0.000		0	N.D.		
98] * Naphthalene	19.266	128	126	4.01	pg	# 69
99) n-Dodecane	0.000		0	N.D.		
100) * Hexachlorobutadiene	0.000		0	N.D.		

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

Data Path : I:\MS21\DATA\2022 03\17\
 Data File : 03172207.D
 Acq On : 17 Mar 2022 13:55
 Operator : RVT
 Sample : 031722 AC01623 29099
 Misc : LL+TICS (Sig #1); S35-02102202 (Sig #2)
 ALS Vial : 203 Sample Multiplier: 1

Quant Time: Mar 18 06:47:10 2022
 Quant Method : I:\MS21\Methods\F21120721.M
 Quant Title : EPA TO-15
 QLast Update : Wed Dec 08 08:58:32 2021
 Response via : Initial Calibration



SIMIVALLEY QC Certification

Conditioner: P-Conditioner-07

Cycles: 30

Batch: 29094

Batch Started By: ANAKLOWYCZ on 3/16/22 1125
 Finished Cleaning By: on 3/18/22 1234

Container IDs	Cleaned Date	QC Date Analyzed	QC Results	Initial Vacuum		Final Vacuum		Comments
				Vacuum	Date/Time	User	Vacuum	
AC02204	3/16/22	3/17/22	Fail	-14.3	3/18/22 1234			MS21_03/16/22
Passed For: Fail								
AS00848	3/16/22	3/16/22	Pass w/ Conditions	-14.3	3/18/22 1234		-14.0	3/18/22 1247
AS001122	3/16/22	3/16/22	Pass w/ Conditions	-14.3	3/18/22 1234		-14.0	3/18/22 1247
AS002211	3/16/22	3/16/22	Pass w/ Conditions	-14.3	3/18/22 1234		-14.0	3/18/22 1247
AS002062	3/16/22	3/16/22	Pass w/ Conditions	-14.3	3/18/22 1234		-14.0	3/18/22 1247
AS002152	3/16/22	3/16/22	Pass w/ Conditions	-14.3	3/18/22 1234		-14.0	3/18/22 1247
AC01608	3/16/22	3/16/22	Pass w/ Conditions	-14.3	3/18/22 1234		-14.0	3/18/22 1247
AS00745	3/16/22	3/17/22	Pass w/ Conditions	-14.3	3/18/22 1234		-14.0	4/12/22 1110
AC02099	3/16/22	3/16/22	Pass w/ Conditions	-14.3	3/18/22 1234		-14.0	3/18/22 1247
AC02365	3/16/22	3/16/22	Pass w/ Conditions	-14.3	3/18/22 1234		-14.0	3/18/22 1247

Passed For: TO-15 (75 Comp 0.1 ug/m3 + TICs)

Exceptions:

COMPONENTID	Date / Time	MODULE	USER	COMMENTS

Batch Comment:

* QC Canister

Data Path : I:\MS21\DATA\2022 03\17\
 Data File : 03172209.D
 Acq On : 17 Mar 2022 15:18
 Operator : RVT
 Sample : 031622 AS00745 29094
 Misc : LL+TICS (Sig #1); S35-02102202 (Sig #2)
 ALS Vial : 15 Sample Multiplier: 1

RVT 3/23/22

Quant Time: Mar 18 06:47:26 2022
 Quant Method : I:\MS21\Methods\F21120721.M
 Quant Title : EPA TO-15
 QLast Update : Wed Dec 08 08:58:32 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.492	130	29060	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.654	114	93955	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.678	54	7611	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.298	65	40414	887.35	pg	0.00
Spiked Amount	1000.000		Recovery	=	88.73%	
57) Toluene-d8 (SS2)	12.569	98	100399	2600.02	pg	0.00
Spiked Amount	1000.000		Recovery	=	260.00%	
74) Bromofluorobenzene (SS3)	16.111	174	9995	637.87	pg	0.00
Spiked Amount	1000.000		Recovery	=	63.79%	
Target Compounds						
2] * Propene	3.514	42	1585	47.48	pg	Qvalue # 11
3] * Dichlorodifluoromethane	3.561	85	962	10.24	pg	97
4] * Chloromethane	3.686	50	265	4.55	pg	93
5] * 1,2-Dichloro-1,1,2,2...	0.000		0	N.D.		
6] * Vinyl Chloride	0.000		0	N.D.		
7] * 1,3-Butadiene	3.966	54	11	0.27	pg	# 12
8] * Bromomethane	0.000		0	N.D.		
9] * Chloroethane	0.000		0	N.D.		
10] * Ethanol	4.433	45	1830	95.33	pg	97
11] * Acetonitrile	4.589	41	215	6.07	pg	# 83
12] * Acrolein	4.693	56	136	6.49	pg	91
13] * Acetone	4.818	58	2190	67.41	pg	74
14] * Trichlorofluoromethane	4.925	101	843	8.78	pg	93
15] * 2-Propanol (Isopropa...	5.038	45	759	8.92	pg	# 60
16] * Acrylonitrile	0.000		0	N.D.		
17] * 1,1-Dichloroethene	5.411	96	242	4.38	pg	# 1
18] tert-Butanol	5.026	59	55	7.90	pg	# 1
19] * Methylene Chloride	5.523	84	1875	41.12	pg	99
20] * 3-Chloro-1-propene (...)	0.000		0	N.D.		
21] * Trichlorotrifluoroet...	5.766	151	123	2.99	pg	95
22] * Carbon Disulfide	5.790	76	3375	21.15	pg	99
23] * trans-1,2-Dichloroet...	0.000		0	N.D.		
24] * 1,1-Dichloroethane	0.000		0	N.D.		
25] * Methyl tert-Butyl Ether	0.000		0	N.D.		
26] * Vinyl Acetate	0.000		0	N.D.		
27] * 2-Butanone (MEK)	6.957	72	530	20.90	pg	# 52
28] * cis-1,2-Dichloroethene	0.000		0	N.D.		
29] DIPE	7.608	45	1183	10.18	pg	# 45
30] * Ethyl Acetate	7.608	61	1273	99.90	pg	# 76
31] * n-Hexane	7.569	57	137	2.41	pg	# 55
32] * Chloroform	0.000		0	N.D.		
34] * Tetrahydrofuran	0.000		0	N.D.		
35] ETBE	0.000		0	N.D.		
36] * 1,2-Dichloroethane	0.000		0	N.D.		
38] * 1,1,1-Trichloroethane	0.000		0	N.D.		
39] * Benzene	9.232	78	4674	39.69	pg	100
40] Isopropyl Acetate	9.143	61	185	No Calib		#
41] 1-Butanol	9.133	56	269	No Calib		
42] * Carbon Tetrachloride	9.404	117	90	2.02	pg	96
43] * Cyclohexane	0.000		0	N.D.		
44] TAME	0.000		0	N.D.		
45] * 1,2-Dichloropropane	0.000		0	N.D.		
46] * Bromodichloromethane	0.000		0	N.D.		
47] * Trichloroethene	10.457	130	707	17.45	pg	92

Data Path : I:\MS21\DATA\2022 03\17\
 Data File : 03172209.D
 Acq On : 17 Mar 2022 15:18
 Operator : RVT
 Sample : 031622 AS00745 29094
 Misc : LL+TICS (Sig #1); S35-02102202 (Sig #2)
 ALS Vial : 15 Sample Multiplier: 1

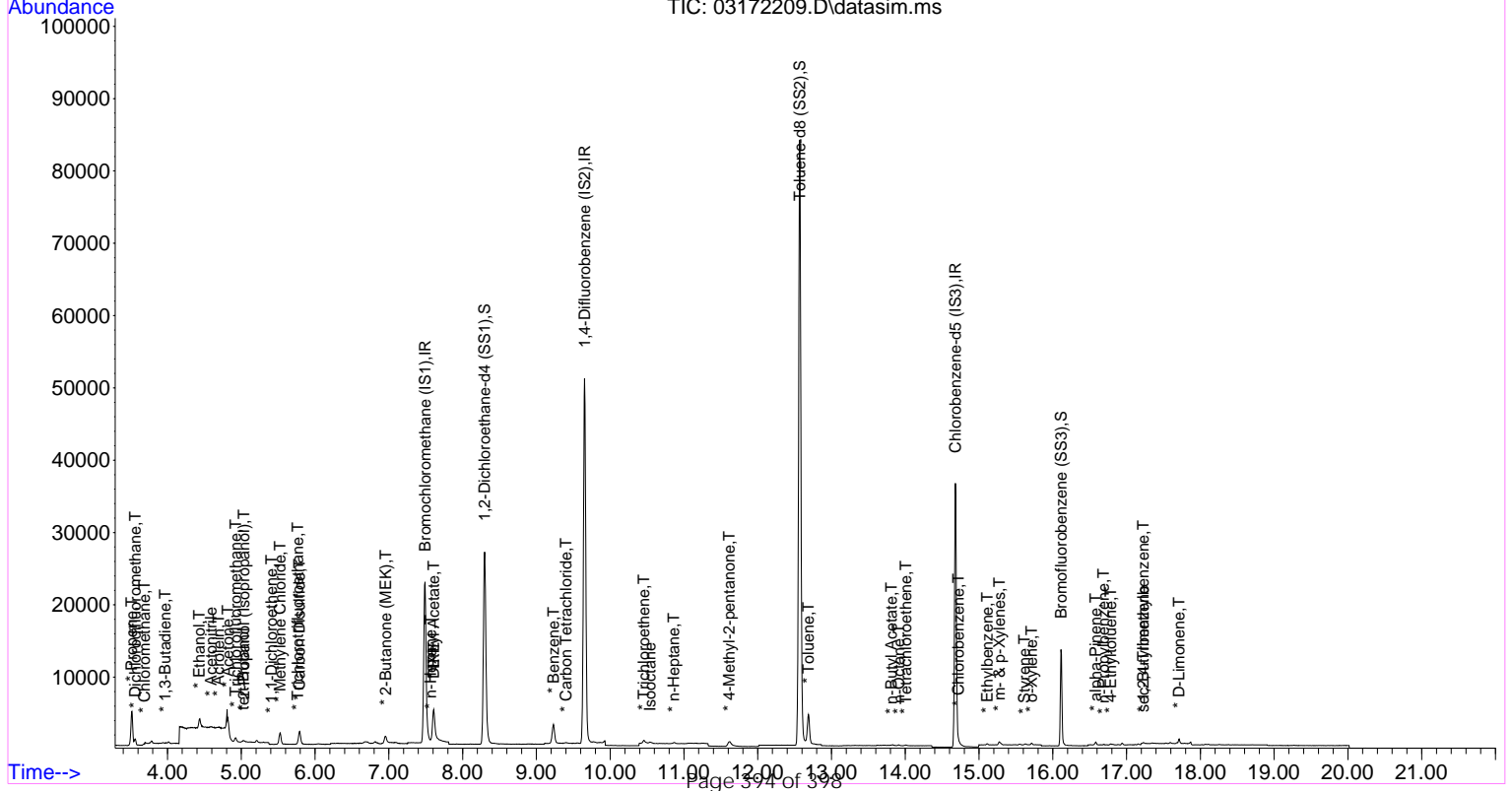
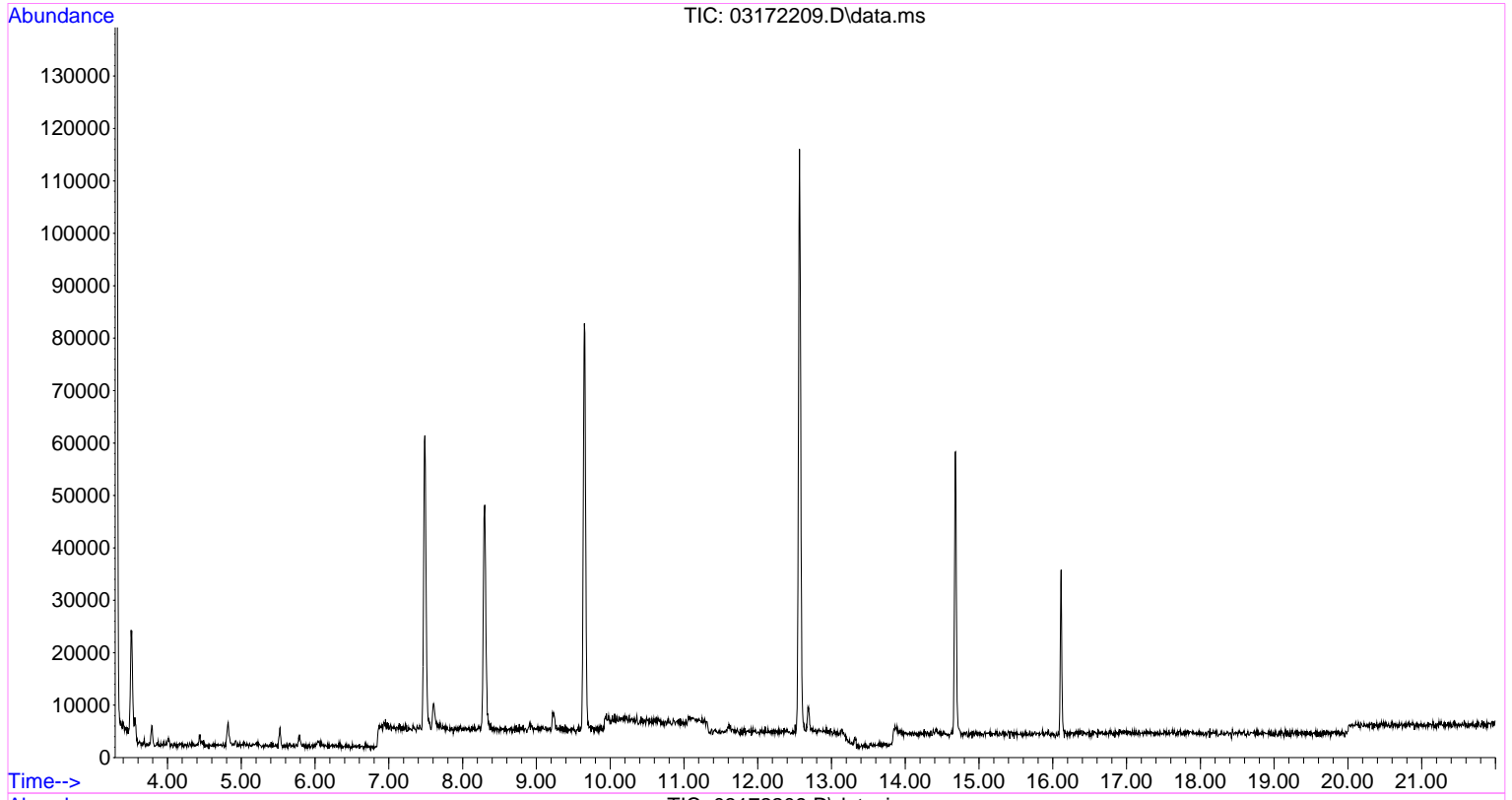
Quant Time: Mar 18 06:47:26 2022
 Quant Method : I:\MS21\Methods\F21120721.M
 Quant Title : EPA TO-15
 QLast Update : Wed Dec 08 08:58:32 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev	(Min)
48) * 1,4-Dioxane	0.000		0	N.D.			
49] Isooctane	10.540	56	117	2.37	pg		94
50) * Methyl Methacrylate	0.000		0	N.D.			
51] * n-Heptane	10.864	71	106	3.28	pg	#	41
52) * cis-1,3-Dichloropropene	0.000		0	N.D.			
53] * 4-Methyl-2-pentanone	11.613	58	590	26.73	pg	#	83
54) * trans-1,3-Dichloropr...	0.000		0	N.D.			
55) * 1,1,2-Trichloroethane	0.000		0	N.D.			
58] * Toluene	12.688	91	5230	102.05	pg		98
59) * 2-Hexanone	0.000		0	N.D.			
60) * Dibromochloromethane	0.000		0	N.D.			
61) * 1,2-Dibromoethane	0.000		0	N.D.			
62] * n-Butyl Acetate	13.811	56	50	5.19	pg	#	1
63] * n-Octane	13.914	85	72	5.53	pg	#	79
64] * Tetrachloroethene	14.007	166	104	5.75	pg	#	82
65] * Chlorobenzene	14.718	112	55	1.31	pg	#	42
66] * Ethylbenzene	15.112	91	180	2.72	pg		93
67] * m- & p-Xylenes	15.278	91	555	10.78	pg		95
68) * Bromoform	0.000		0	N.D.			
69) Cyclohexanone	0.000		0	N.D.			
70] * Styrene	15.614	104	67	2.04	pg	#	30
71] * o-Xylene	15.711	91	217	4.20	pg		94
72) * n-Nonane	0.000		0	N.D.			
73) * 1,1,2,2-Tetrachloroe...	0.000		0	N.D.			
75) * Cumene	0.000		0	N.D.			
76] * alpha-Pinene	16.580	93	269	9.02	pg	#	80
77] * n-Propylbenzene	16.687	91	73	1.03	pg	#	52
78) 3-Ethyltoluene	16.784	105	118	No Calib		#	
79] * 4-Ethyltoluene	16.784	105	118	2.27	pg	#	45
80) * 1,3,5-Trimethylbenzene	0.000		0	N.D.			
81) alpha-Methylstyrene	0.000		0	N.D.			
82) 2-Ethyltoluene	0.000		0	N.D.			
83) tert-Butylbenzene	0.000		0	N.D.			
84] * 1,2,4-Trimethylbenzene	17.224	105	115	2.46	pg	#	24
85) * Benzyl Chloride	0.000		0	N.D.			
86) * 1,3-Dichlorobenzene	0.000		0	N.D.			
87) * 1,4-Dichlorobenzene	0.000		0	N.D.			
88) n-Decane	0.000		0	N.D.			
89] sec-Butylbenzene	17.224	105	115	2.48	pg	#	51
90) 1,2,3-Trimethylbenzene	0.000		0	N.D.			
91) p-Isopropyltoluene	0.000		0	N.D.			
92) * 1,2-Dichlorobenzene	0.000		0	N.D.			
93] * D-Limonene	17.709	68	371	32.37	pg		83
94) n-Butylbenzene	0.000		0	N.D.			
95) * 1,2-Dibromo-3-chloro...	0.000		0	N.D.			
96) n-Undecane	0.000		0	N.D.			
97) * 1,2,4-Trichlorobenzene	0.000		0	N.D.			
98) * Naphthalene	0.000		0	N.D.			
99) n-Dodecane	0.000		0	N.D.			
100) * Hexachlorobutadiene	0.000		0	N.D.			

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

Data Path : I:\MS21\DATA\2022 03\17\
 Data File : 03172209.D
 Acq On : 17 Mar 2022 15:18
 Operator : RVT
 Sample : 031622 AS00745 29094
 Misc : LL+TICS (Sig #1); S35-02102202 (Sig #2)
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 18 06:47:26 2022
 Quant Method : I:\MS21\Methods\F21120721.M
 Quant Title : EPA TO-15
 QLast Update : Wed Dec 08 08:58:32 2021
 Response via : Initial Calibration



SIMIVALLEY QC Certification

Conditioner: P-Conditioner-07

Cycles: 30

Batch: 29086

Batch Started By: ANAKLOWYCZ on 3/14/22 0315
 Finished Cleaning By: ANAKLOWYCZ on 3/14/22 0315

Container IDs	Cleaned Date	QC Date Analyzed	QC Results	Initial Vacuum		Final Vacuum		Comments	
				Vacuum	Date/Time	User	Vacuum		Date/Time
AC01564	3/14/22		Pass w/ Conditions	-14.3	3/14/22 0315	ANAKLOWYCZ	-14.0	3/18/22 1247	
AS01131	3/14/22		Pass w/ Conditions	-14.3	3/14/22 0315	ANAKLOWYCZ	-14.0	3/18/22 1010	
AS00827	3/14/22		Pass w/ Conditions	-14.3	3/14/22 0315	ANAKLOWYCZ	-14.0	3/18/22 1010	
AS01646	3/14/22		Pass w/ Conditions	-14.3	3/14/22 0315	ANAKLOWYCZ	-14.0	3/18/22 1010	
AC01049	3/14/22		Pass w/ Conditions	-14.3	3/14/22 0315	ANAKLOWYCZ	-14.0	3/18/22 1009	
AC01220	3/14/22		Pass w/ Conditions	-14.3	3/14/22 0315	ANAKLOWYCZ	-14.0	3/18/22 1010	
AC00717	3/14/22		Pass w/ Conditions	-14.3	3/14/22 0315	ANAKLOWYCZ	-14.0	3/18/22 1009	
AS01687	3/14/22		Pass w/ Conditions	-14.3	3/14/22 0315	ANAKLOWYCZ	-14.0	3/18/22 1247	
AC00812	3/14/22		Pass w/ Conditions	-14.3	3/14/22 0315	ANAKLOWYCZ	-14.0	3/18/22 1009	
AS01123	3/14/22	3/15/22	Pass w/ Conditions	-14.3	3/14/22 0315	ANAKLOWYCZ			MS21_03/15/22

Passed For: TO-15 (75 Comp 0.1 ug/m3 + TICs)

Exceptions:

COMPONENTID Date / Time MODULE USER COMMENTS

Batch Comment:

* QC Canister

Data Path : I:\MS21\DATA\2022 03\15\
 Data File : 03152208.D
 Acq On : 15 Mar 2022 12:51
 Operator : RVT
 Sample : 031422 AS01123 29086
 Misc : LL+TICS (Sig #1); S35-02102202 (Sig #2)
 ALS Vial : 204 Sample Multiplier: 1

RVT 3/16/22

Quant Time: Mar 16 10:33:46 2022
 Quant Method : I:\MS21\Methods\F21120721.M
 Quant Title : EPA TO-15
 QLast Update : Wed Dec 08 08:58:32 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Bromochloromethane (IS1)	7.492	130	27541	1000.00	pg	0.00
37) 1,4-Difluorobenzene (IS2)	9.654	114	99831	1000.00	pg	0.00
56) Chlorobenzene-d5 (IS3)	14.678	54	8884	1000.00	pg	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 ...	8.298	65	39912	924.66	pg	0.00
Spiked Amount	1000.000		Recovery	=	92.47%	
57) Toluene-d8 (SS2)	12.574	98	101721	2256.79	pg	0.01
Spiked Amount	1000.000		Recovery	=	225.68%	
74) Bromofluorobenzene (SS3)	16.116	174	11417	624.22	pg	0.00
Spiked Amount	1000.000		Recovery	=	62.42%	
Target Compounds						
2] * Propene	3.523	42	2063	65.20	pg	Qvalue # 6
3] * Dichlorodifluoromethane	3.566	85	855	9.60	pg	99
4] * Chloromethane	3.695	50	874	15.82	pg	93
5] * 1,2-Dichloro-1,1,2,2...	3.780	85	53	0.81	pg	# 42
6] * Vinyl Chloride	0.000		0	N.D.		
7] * 1,3-Butadiene	3.956	54	11	0.28	pg	# 1
8] * Bromomethane	4.193	94	108	2.84	pg	94
9] * Chloroethane	0.000		0	N.D.		
10] * Ethanol	4.432	45	811	44.58	pg	93
11] * Acetonitrile	4.599	41	374	11.14	pg	# 1
12] * Acrolein	4.698	56	538	27.09	pg	89
13] * Acetone	4.818	58	6129	199.07	pg	99
14] * Trichlorofluoromethane	4.931	101	605	6.65	pg	84
15] * 2-Propanol (Isopropa...	5.038	45	398	4.94	pg	# 60
16] * Acrylonitrile	0.000		0	N.D.		
17] * 1,1-Dichloroethene	5.387	96	377	7.19	pg	# 40
18] tert-Butanol	0.000		0	N.D.		
19] * Methylene Chloride	5.533	84	1680	38.88	pg	96
20] * 3-Chloro-1-propene (...)	0.000		0	N.D.		
21] * Trichlorotrifluoroet...	5.771	151	89	2.29	pg	97
22] * Carbon Disulfide	5.800	76	6898	45.62	pg	99
23] * trans-1,2-Dichloroet...	0.000		0	N.D.		
24] * 1,1-Dichloroethane	0.000		0	N.D.		
25] * Methyl tert-Butyl Ether	0.000		0	N.D.		
26] * Vinyl Acetate	6.681	86	64	7.06	pg	# 39
27] * 2-Butanone (MEK)	6.962	72	525	21.84	pg	83
28] * cis-1,2-Dichloroethene	0.000		0	N.D.		
29] DIPE	7.608	45	229	2.08	pg	# 45
30] * Ethyl Acetate	7.608	61	270	22.36	pg	# 73
31] * n-Hexane	7.576	57	274	5.09	pg	# 55
32] * Chloroform	7.621	83	57	0.78	pg	# 18
34] * Tetrahydrofuran	0.000		0	N.D.		
35] ETBE	0.000		0	N.D.		
36] * 1,2-Dichloroethane	0.000		0	N.D.		
38] * 1,1,1-Trichloroethane	0.000		0	N.D.		
39] * Benzene	9.237	78	1077	8.61	pg	91
40] Isopropyl Acetate	9.185	61	527	No Calib	#	
41] 1-Butanol	0.000		0	N.D.		
42] * Carbon Tetrachloride	9.409	117	104	2.20	pg	88
43] * Cyclohexane	0.000		0	N.D.		
44] TAME	0.000		0	N.D.		
45] * 1,2-Dichloropropane	0.000		0	N.D.		
46] * Bromodichloromethane	0.000		0	N.D.		
47] * Trichloroethene	0.000		0	N.D.	d	

Data Path : I:\MS21\DATA\2022 03\15\
 Data File : 03152208.D
 Acq On : 15 Mar 2022 12:51
 Operator : RVT
 Sample : 031422 AS01123 29086
 Misc : LL+TICS (Sig #1); S35-02102202 (Sig #2)
 ALS Vial : 204 Sample Multiplier: 1

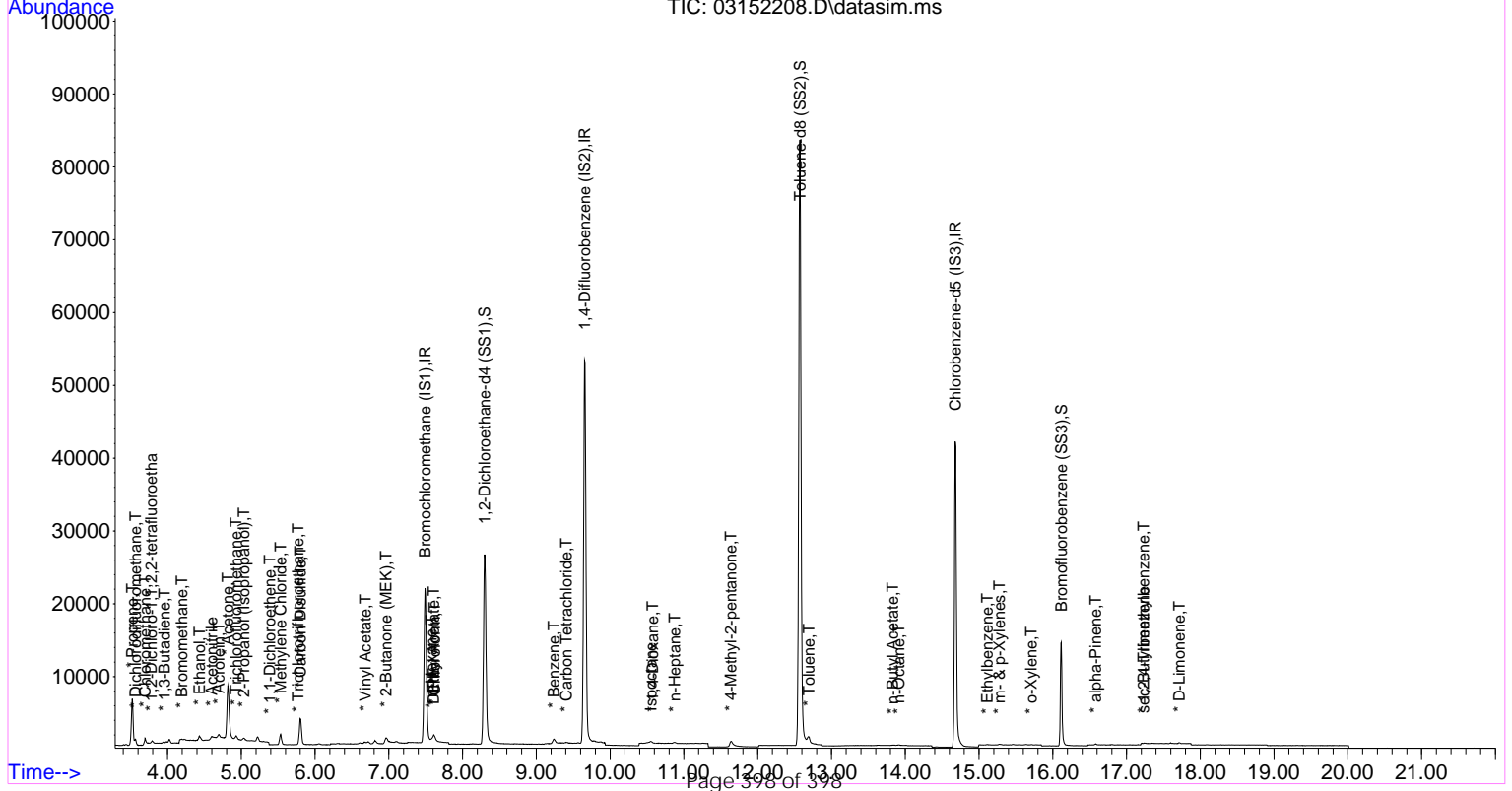
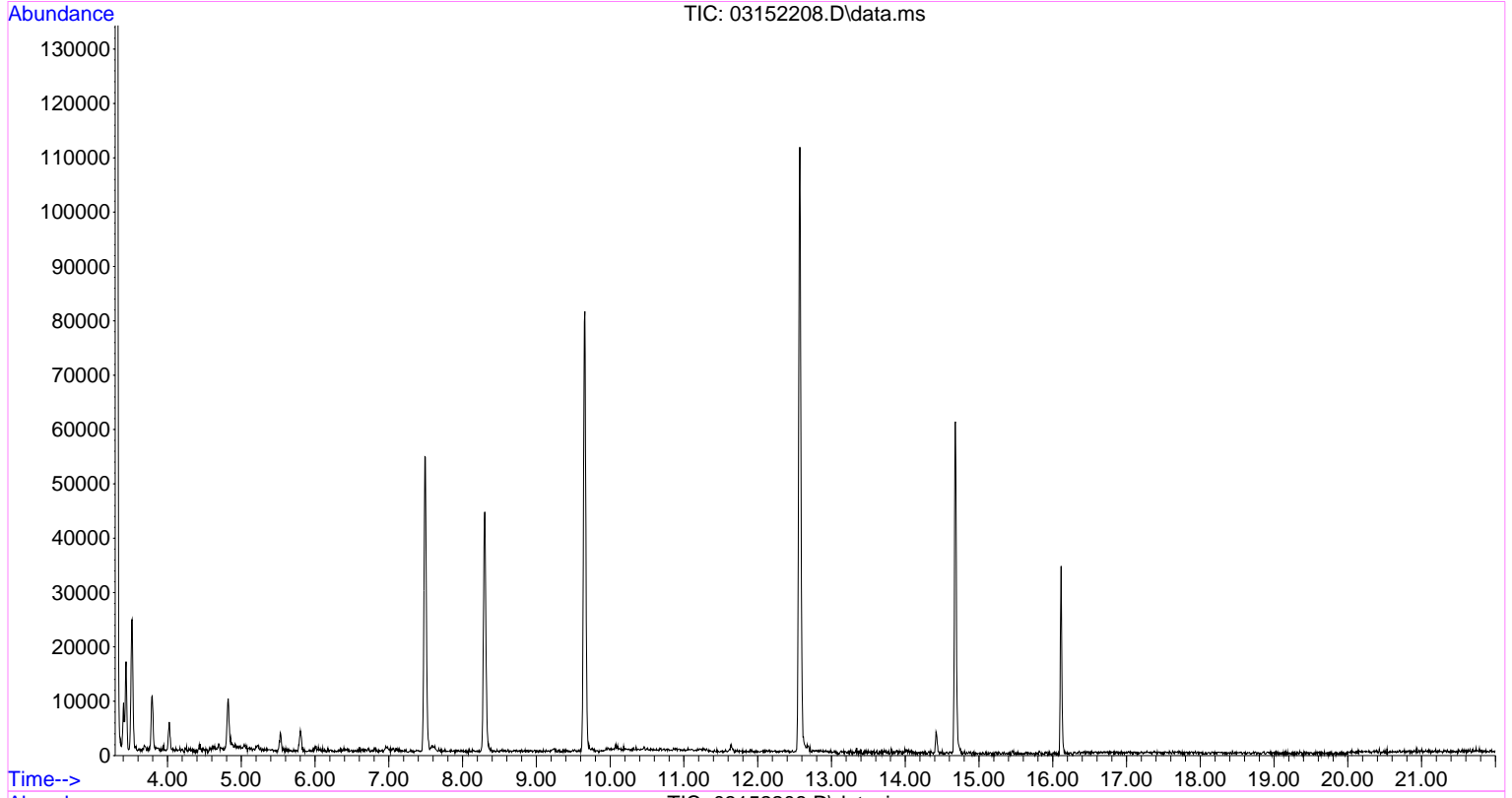
Quant Time: Mar 16 10:33:46 2022
 Quant Method : I:\MS21\Methods\F21120721.M
 Quant Title : EPA TO-15
 QLast Update : Wed Dec 08 08:58:32 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48] * 1,4-Dioxane	10.574	88	75	2.38	pg	89
49] Isooctane	10.553	56	175	3.34	pg #	61
50] * Methyl Methacrylate	0.000		0	N.D.		
51] * n-Heptane	10.877	71	153	4.46	pg #	41
52] * cis-1,3-Dichloropropene	0.000		0	N.D.		
53] * 4-Methyl-2-pentanone	11.635	58	658	28.05	pg #	84
54] * trans-1,3-Dichloropr...	0.000		0	N.D.		
55] * 1,1,2-Trichloroethane	0.000		0	N.D.		
58] * Toluene	12.693	91	1019	17.03	pg	99
59] * 2-Hexanone	0.000		0	N.D.		
60] * Dibromochloromethane	0.000		0	N.D.		
61] * 1,2-Dibromoethane	0.000		0	N.D.		
62] * n-Butyl Acetate	13.831	56	71	6.31	pg #	27
63] * n-Octane	13.914	85	89	5.86	pg #	12
64] * Tetrachloroethene	0.000		0	N.D.		
65] * Chlorobenzene	0.000		0	N.D.		
66] * Ethylbenzene	15.112	91	53	0.69	pg #	43
67] * m- & p-Xylenes	15.277	91	146	2.43	pg #	86
68] * Bromoform	0.000		0	N.D.		
69] Cyclohexanone	0.000		0	N.D.		
70] * Styrene	0.000		0	N.D.		
71] * o-Xylene	15.711	91	52	0.86	pg #	29
72] * n-Nonane	0.000		0	N.D.		
73] * 1,1,2,2-Tetrachloroe...	0.000		0	N.D.		
75] * Cumene	0.000		0	N.D.		
76] * alpha-Pinene	16.580	93	72	2.07	pg #	29
77] * n-Propylbenzene	0.000		0	N.D.		
78] 3-Ethyltoluene	0.000		0	N.D.		
79] * 4-Ethyltoluene	0.000		0	N.D.		
80] * 1,3,5-Trimethylbenzene	0.000		0	N.D.		
81] alpha-Methylstyrene	0.000		0	N.D.		
82] 2-Ethyltoluene	0.000		0	N.D.		
83] tert-Butylbenzene	0.000		0	N.D.		
84] * 1,2,4-Trimethylbenzene	17.229	105	57	1.04	pg #	24
85] * Benzyl Chloride	0.000		0	N.D.		
86] * 1,3-Dichlorobenzene	0.000		0	N.D.		
87] * 1,4-Dichlorobenzene	0.000		0	N.D.		
88] n-Decane	0.000		0	N.D.		
89] sec-Butylbenzene	17.229	105	57	1.05	pg #	51
90] 1,2,3-Trimethylbenzene	0.000		0	N.D.		
91] p-Isopropyltoluene	0.000		0	N.D.		
92] * 1,2-Dichlorobenzene	0.000		0	N.D.		
93] * D-Limonene	17.715	68	73	5.46	pg	87
94] n-Butylbenzene	0.000		0	N.D.		
95] * 1,2-Dibromo-3-chloro...	0.000		0	N.D.		
96] n-Undecane	0.000		0	N.D.		
97] * 1,2,4-Trichlorobenzene	0.000		0	N.D.		
98] * Naphthalene	0.000		0	N.D.		
99] n-Dodecane	0.000		0	N.D.		
100] * Hexachlorobutadiene	0.000		0	N.D.		

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

Data Path : I:\MS21\DATA\2022 03\15\
 Data File : 03152208.D
 Acq On : 15 Mar 2022 12:51
 Operator : RVT
 Sample : 031422 AS01123 29086
 Misc : LL+TICS (Sig #1); S35-02102202 (Sig #2)
 ALS Vial : 204 Sample Multiplier: 1

Quant Time: Mar 16 10:33:46 2022
 Quant Method : I:\MS21\Methods\F21120721.M
 Quant Title : EPA TO-15
 QLast Update : Wed Dec 08 08:58:32 2021
 Response via : Initial Calibration





LABORATORY REPORT

March 30, 2023

Jasmine Stefansky
New York State DEC
625 Broadway, 12th Floor
Albany, NY 12233-7017

RE: Armonk PWS

Dear Jasmine:

Enclosed are the results of the samples submitted to our laboratory on March 16, 2023. For your reference, these analyses have been assigned our service request number P2301184.

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 5:18 pm, Mar 30, 2023

For Nicole Bryson
Laboratory Director



Client: New York State DEC
Project: Armonk PWS

Service Request No: P2301184
New York Lab ID: 11221

CASE NARRATIVE

The samples were received intact under chain of custody on March 16, 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 upper control criteria were exceeded for Benzyl Chloride and Naphthalene in the Continuing Calibration Verification (CCV) analyzed on March 21, 2023. Additionally, the spike recoveries of Vinyl Acetate, cis-1,3-Dichloropropene and Benzyl Chloride exceeded the control criteria. Since the apparent problem equates to a potential high bias and the field samples analyzed in this sequence did not contain the analytes in question, the data quality has not been affected. No corrective action was required.

The spike recoveries of Chloromethane for the Laboratory Control Sample (LCS) and Chloroethane for the LCS/DLCS for both runs analyzed on March 21, 2023 were outside the laboratory generated control criteria. Additionally, the spike recovery of trans-1,3-Dichloropropene in the LCS for the second run analyzed on March 21, 2023 exceeded the laboratory acceptance. However, the spike recoveries of the analytes in question were within the method criteria. Therefore, the data quality has not been significantly affected. No corrective action was required.

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/lelap/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: New York State DEC
 Project ID: Armonk PWS

Service Request: P2301184

Date Received: 3/16/2023
 Time Received: 09:45

TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	
Armonk-OA-031423	P2301184-001	Air	3/14/2023	15:59	AS01085	-0.28	3.54	X
Building-1-SS1-031423	P2301184-002	Air	3/14/2023	16:06	AS01533	-1.02	3.56	X
Building-1-SS2-031423	P2301184-003	Air	3/14/2023	16:12	AC02194	-0.91	3.56	X
Building-1-IA-031423	P2301184-004	Air	3/14/2023	16:09	AS01261	-0.99	3.64	X
Building-2-SS1-031423	P2301184-005	Air	3/14/2023	16:22	AS01101	-0.99	3.51	X
Building-2-SS2-031423	P2301184-006	Air	3/14/2023	16:29	AS01468	-1.41	3.88	X
Building-2-IA-031423	P2301184-007	Air	3/14/2023	14:23	AC02178	0.00	3.86	X
Building-3-IA-031423	P2301184-008	Air	3/14/2023	16:36	AS00369	-1.22	4.34	X
Building-4-SS1-031423	P2301184-009	Air	3/14/2023	17:51	AS00380	-0.55	3.58	X
Building-4-IA1-031423	P2301184-010	Air	3/14/2023	17:52	AS01764	0.28	3.74	X
Building-4-SS2-031423	P2301184-011	Air	3/14/2023	17:57	AC02405	-0.88	3.45	X
Building-4-IA2-031423	P2301184-012	Air	3/14/2023	17:56	AC01079	0.03	3.58	X
Armonk-IA-Dup-031423	P2301184-013	Air	3/14/2023	00:00	AS01667	-0.95	3.43	X

**ALS Environmental
Sample Acceptance Check Form**

Client: AECOM Work order: P2301184
 Project: Armonk PWS
 Sample(s) received on: 3/16/23 Date opened: 3/16/23 by: ADAVID

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.

- | | <u>Yes</u> | <u>No</u> | <u>N/A</u> |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1 Were sample containers properly marked with client sample ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Did sample containers arrive in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Were chain-of-custody papers used and filled out? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Did sample container labels and/or tags agree with custody papers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Was sample volume received adequate for analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 Are samples within specified holding times? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 Was proper temperature (thermal preservation) of cooler at receipt adhered to? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 Were custody seals on outside of cooler/Box/Container? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? <u>Box sealing.</u> Sealing Lid? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Were signature and date included? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Were seals intact? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9 Do containers have appropriate preservation , according to method/SOP or Client specified information? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are pH preserved? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were VOA vials checked for presence/absence of air bubbles? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 Tubes: Are the tubes capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 Badges: Are the badges properly capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2301184-001.01	6.0 L Silonite Can					
P2301184-002.01	6.0 L Silonite Can					
P2301184-003.01	6.0 L Ambient Can					
P2301184-004.01	6.0 L Silonite Can					
P2301184-005.01	6.0 L Silonite Can					
P2301184-006.01	6.0 L Silonite Can					
P2301184-007.01	6.0 L Ambient Can					
P2301184-008.01	6.0 L Silonite Can					
P2301184-009.01	6.0 L Silonite Can					
P2301184-010.01	6.0 L Silonite Can					
P2301184-011.01	6.0 L Ambient Can					
P2301184-012.01	6.0 L Ambient Can					
P2301184-013.01	6.0 L Silonite Can					
	6.0 L Silonite Can					
	6.0 L Silonite Can					

Explain any discrepancies: (include lab sample ID numbers): _____
 Received 2 sampling canes.

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)



2655 Park Center Drive, Suite A
 Simi Valley, California 93065
 Phone (805) 526-7161

Air - Chain of Custody Record & Analytical Service Request

Company Name & Address (Reporting Information)		Requested Turnaround Time in Business Days (Surcharges) please circle		ALS Project No.				
NYSDEC 625 Broadway, 12th Floor, Albany, NY, 12233-7017		1 Day (100%) 2 Day (75%) <u>3 Day (50%)</u> 4 Day (35%) 5 Day (25%) 10 Day (Standard)		<u>2381184</u>				
Project Manager: Jasmine Stefansky		Project Name: Armonk PWS		ALS Contact:				
Phone: 518-402-4575		Project Number: NYSDEC collect contract		Analysis Method:				
Fax: —		P.O. # / Billing Information: NYSDEC collect contract		1-82 0157751-01				
Email Address for Result Reporting: jasmine.stefansky@dec.ny.gov		Sampler (Print & Sign): Steve Gray, Mike Izdebski, Michael A. Ajlubi		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 End Pressure "Hg/psig	Canister Start Pressure "Hg	Sample Volume	Analysis Method
Armonk-OA 031423	03/14/23	1554	AS01085	SFC00512	29.5	3.5	6L	X
Building-1-SS1 031423	03/14/23	1606	AS01533	SFC00506	26.5	1.0	6L	X
Building-1-SS2 031423	03/14/23	1612	AC02194	SFC00660	28.0	3.0	6L	X
Building-1-IA 031423	03/14/23	1604	AS01261	SFC0024	29.0	2.0	6L	X
Building-2-SS1 031423	03/14/23	1622	AS01101	SFC00218	30+	4.0	6L	X
Building-2-SS2 031423	03/14/23	1629	AS01468	SFC00154	30+	8.5	6L	X
Building-2-IA 031423	03/14/23	1423	AC02178	SFC00656	10	0	6L	X
Building-3-IA 031423	03/14/23	1636	AS00364	SFC00626	26	1.0	6L	X
Building-4-SS1 031423	03/14/23	1751	AS00380	SFC00544	24.5	3.0	6L	X
Building-4-IA1 031423	03/14/23	1752	AS01764	SFC00638	29	1.5	6L	X
Building-4-SS2 031423	03/14/23	1757	AC02465	SFC00221	30+	3.5	6L	X
Building-4-IA2 031423	03/14/23	1756	AC01074	SFC00466	24	2.5	6L	X
Armonk-IA-Dup 031423	03/14/23	—	AS01667	SFC00663	30+	4.0	6L	X

Report Tier Levels - please select Tier I - Results (Default if not specified) _____ Tier II (Results + QC Summaries) _____ Tier III (Results + QC & Calibration Summaries) <u>X</u> Tier IV (Data Validation Package) 10% Surcharge _____		EDD required <u>Yes</u> / No Type: <u>NYSDEC Eggs</u> Units: _____		Chain of Custody Seal: (Circle) INTACT <input checked="" type="radio"/> BROKEN <input type="radio"/> ABSENT <input type="radio"/>	
Relinquished by: (Signature)	Date: 3/15/23	Time: 1103	Received by: (Signature)	Date: 3-15-23	Time: 1103
Relinquished by: (Signature)	Date: 3/15/23	Time: 1103	Received by: (Signature)	Date: 3-16-23	Time: 0945
Project Requirements (MRLs, QAPP)		Cooler / Blank Temperature		°C	

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: New York State DEC
Client Project ID: Armonk PWS

ALS Project ID: P2301184

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister(s) / 6.0 L Summa Canister(s)
 Test Notes:

Date(s) Collected: 3/14/23
 Date(s) Received: 3/16/23
 Date(s) Analyzed: 3/21/23

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	P230321-MB	102	111	83	70-130	
Method Blank	P230321-MB	102	112	81	70-130	
Lab Control Sample	P230321-LCS	102	110	86	70-130	
Lab Control Sample	P230321-LCS	102	111	83	70-130	
Duplicate Lab Control Sample	P230321-DLCS	102	110	85	70-130	
Duplicate Lab Control Sample	P230321-DLCS	102	110	83	70-130	
Armonk-OA-031423	P2301184-001	102	111	83	70-130	
Building-1-SS1-031423	P2301184-002	101	110	83	70-130	
Building-1-SS2-031423	P2301184-003	101	111	83	70-130	
Building-1-IA-031423	P2301184-004	101	111	83	70-130	
Building-2-SS1-031423	P2301184-005	102	110	82	70-130	
Building-2-SS2-031423	P2301184-006	101	110	83	70-130	
Building-2-IA-031423	P2301184-007	103	110	83	70-130	
Building-2-IA-031423	P2301184-007DUP	102	110	83	70-130	
Building-3-IA-031423	P2301184-008	101	110	83	70-130	
Building-4-SS1-031423	P2301184-009	102	111	83	70-130	
Building-4-IA1-031423	P2301184-010	101	111	84	70-130	
Building-4-SS2-031423	P2301184-011	103	110	83	70-130	
Building-4-IA2-031423	P2301184-012	101	110	83	70-130	
Armonk-IA-Dup-031423	P2301184-013	102	108	82	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 3

Client: New York State DEC
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P230321-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
115-07-1	Propene	212	259	250	122	118	56-128	3	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	212	217	212	102	100	71-112	2	25	
74-87-3	Chloromethane	210	267	261	127	124	53-126	2	25	L
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	214	196	198	92	93	62-121	1	25	
75-01-4	Vinyl Chloride	210	230	254	110	121	63-123	10	25	
106-99-0	1,3-Butadiene	210	236	243	112	116	63-135	4	25	
74-83-9	Bromomethane	210	235	235	112	112	71-112	0	25	
75-00-3	Chloroethane	212	257	256	121	121	66-117	0	25	L
64-17-5	Ethanol	1,100	1130	1130	103	103	57-117	0	25	
75-05-8	Acetonitrile	214	217	216	101	101	59-131	0	25	
107-02-8	Acrolein	440	505	506	115	115	71-123	0	25	
67-64-1	Acetone	1,060	1110	1110	105	105	60-117	0	25	
75-69-4	Trichlorofluoromethane (CFC 11)	210	196	194	93	92	71-114	1	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	414	460	463	111	112	61-124	0.9	25	
107-13-1	Acrylonitrile	418	461	458	110	110	65-130	0	25	
75-35-4	1,1-Dichloroethene	204	219	219	107	107	74-114	0	25	
75-09-2	Methylene Chloride	204	229	228	112	112	75-112	0	25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	212	220	224	104	106	57-127	2	25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	210	181	180	86	86	73-114	0	25	
75-15-0	Carbon Disulfide	430	462	459	107	107	70-113	0	25	
156-60-5	trans-1,2-Dichloroethene	216	234	234	108	108	76-119	0	25	
75-34-3	1,1-Dichloroethane	216	228	228	106	106	70-114	0	25	
1634-04-4	Methyl tert-Butyl Ether	216	244	244	113	113	72-118	0	25	
108-05-4	Vinyl Acetate	1,100	1580	1590	144	145	56-137	0.7	25	L
78-93-3	2-Butanone (MEK)	414	497	498	120	120	74-121	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. L = Laboratory control sample recovery outside the specified limits, results may be biased high.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: New York State DEC
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P230321-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
156-59-2	cis-1,2-Dichloroethene	214	216	216	101	101	73-117	0	25	
141-78-6	Ethyl Acetate	398	364	363	91	91	59-161	0	25	
110-54-3	n-Hexane	212	205	205	97	97	55-130	0	25	
67-66-3	Chloroform	216	211	209	98	97	71-114	1	25	
109-99-9	Tetrahydrofuran (THF)	402	448	448	111	111	73-114	0	25	
107-06-2	1,2-Dichloroethane	204	214	212	105	104	71-119	1	25	
71-55-6	1,1,1-Trichloroethane	210	202	198	96	94	73-119	2	25	
71-43-2	Benzene	204	222	220	109	108	72-113	0.9	25	
56-23-5	Carbon Tetrachloride	210	218	215	104	102	67-123	2	25	
110-82-7	Cyclohexane	426	439	435	103	102	70-119	1	25	
78-87-5	1,2-Dichloropropane	214	219	217	102	101	70-118	1	25	
75-27-4	Bromodichloromethane	216	223	220	103	102	74-119	1	25	
79-01-6	Trichloroethene	212	204	201	96	95	74-115	1	25	
123-91-1	1,4-Dioxane	212	242	239	114	113	77-124	0.9	25	
80-62-6	Methyl Methacrylate	428	466	459	109	107	78-126	2	25	
142-82-5	n-Heptane	214	230	228	107	107	70-119	0	25	
10061-01-5	cis-1,3-Dichloropropene	212	282	279	133	132	81-126	0.8	25	L
108-10-1	4-Methyl-2-pentanone	426	469	466	110	109	73-129	0.9	25	
10061-02-6	trans-1,3-Dichloropropene	196	257	257	131	131	80-127	0	25	L
79-00-5	1,1,2-Trichloroethane	216	216	214	100	99	78-117	1	25	
108-88-3	Toluene	214	214	211	100	99	70-118	1	25	
591-78-6	2-Hexanone	426	482	478	113	112	74-132	0.9	25	
124-48-1	Dibromochloromethane	214	224	221	105	103	69-137	2	25	
106-93-4	1,2-Dibromoethane	204	223	219	109	107	76-128	2	25	
123-86-4	n-Butyl Acetate	424	481	479	113	113	75-134	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. L = Laboratory control sample recovery outside the specified limits, results may be biased high.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: New York State DEC
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P230321-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
111-65-9	n-Octane	212	230	228	108	108	68-120	0	25	
127-18-4	Tetrachloroethene	214	179	176	84	82	63-130	2	25	
108-90-7	Chlorobenzene	216	216	214	100	99	70-118	1	25	
100-41-4	Ethylbenzene	218	221	219	101	100	71-123	1	25	
179601-23-1	m,p-Xylenes	430	439	434	102	101	67-127	1	25	
75-25-2	Bromoform	218	209	205	96	94	65-149	2	25	
100-42-5	Styrene	214	258	255	121	119	76-132	2	25	
95-47-6	o-Xylene	216	221	218	102	101	69-124	1	25	
111-84-2	n-Nonane	214	230	228	107	107	64-127	0	25	
79-34-5	1,1,2,2-Tetrachloroethane	216	251	249	116	115	69-128	0.9	25	
98-82-8	Cumene	212	219	216	103	102	69-125	1	25	
80-56-8	alpha-Pinene	216	273	269	126	125	68-129	0.8	25	
103-65-1	n-Propylbenzene	212	221	218	104	103	70-127	1	25	
622-96-8	4-Ethyltoluene	218	230	226	106	104	69-127	2	25	
108-67-8	1,3,5-Trimethylbenzene	216	222	218	103	101	66-129	2	25	
95-63-6	1,2,4-Trimethylbenzene	212	222	218	105	103	63-142	2	25	
100-44-7	Benzyl Chloride	428	677	668	158	156	73-145	1	25	L
541-73-1	1,3-Dichlorobenzene	214	210	208	98	97	67-136	1	25	
106-46-7	1,4-Dichlorobenzene	214	211	208	99	97	63-134	2	25	
95-50-1	1,2-Dichlorobenzene	212	204	201	96	95	64-139	1	25	
5989-27-5	d-Limonene	208	250	247	120	119	63-137	0.8	25	
96-12-8	1,2-Dibromo-3-chloropropane	416	421	417	101	100	72-145	1	25	
120-82-1	1,2,4-Trichlorobenzene	440	431	432	98	98	62-154	0	25	
91-20-3	Naphthalene	220	313	317	142	144	62-156	1	25	
87-68-3	Hexachlorobutadiene	218	177	176	81	81	55-142	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. L = Laboratory control sample recovery outside the specified limits, results may be biased high.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: New York State DEC
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P230321-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 3/22/23
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
115-07-1	Propene	212	256	246	121	116	56-128	4	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	212	213	204	100	96	71-112	4	25	
74-87-3	Chloromethane	210	268	256	128	122	53-126	5	25	L
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	214	195	191	91	89	62-121	2	25	
75-01-4	Vinyl Chloride	210	240	256	114	122	63-123	7	25	
106-99-0	1,3-Butadiene	210	240	239	114	114	63-135	0	25	
74-83-9	Bromomethane	210	230	225	110	107	71-112	3	25	
75-00-3	Chloroethane	212	259	250	122	118	66-117	3	25	L
64-17-5	Ethanol	1,100	1140	1110	104	101	57-117	3	25	
75-05-8	Acetonitrile	214	220	214	103	100	59-131	3	25	
107-02-8	Acrolein	440	510	495	116	113	71-123	3	25	
67-64-1	Acetone	1,060	1120	1090	106	103	60-117	3	25	
75-69-4	Trichlorofluoromethane (CFC 11)	210	192	185	91	88	71-114	3	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	414	465	451	112	109	61-124	3	25	
107-13-1	Acrylonitrile	418	465	453	111	108	65-130	3	25	
75-35-4	1,1-Dichloroethene	204	219	213	107	104	74-114	3	25	
75-09-2	Methylene Chloride	204	229	222	112	109	75-112	3	25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	212	217	209	102	99	57-127	3	25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	210	178	173	85	82	73-114	4	25	
75-15-0	Carbon Disulfide	430	463	449	108	104	70-113	4	25	
156-60-5	trans-1,2-Dichloroethene	216	233	226	108	105	76-119	3	25	
75-34-3	1,1-Dichloroethane	216	227	221	105	102	70-114	3	25	
1634-04-4	Methyl tert-Butyl Ether	216	242	237	112	110	72-118	2	25	
108-05-4	Vinyl Acetate	1,100	1600	1540	145	140	56-137	4	25	L
78-93-3	2-Butanone (MEK)	414	500	487	121	118	74-121	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. L = Laboratory control sample recovery outside the specified limits, results may be biased high.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: New York State DEC
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P230321-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 3/22/23
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
156-59-2	cis-1,2-Dichloroethene	214	216	210	101	98	73-117	3	25	
141-78-6	Ethyl Acetate	398	366	360	92	90	59-161	2	25	
110-54-3	n-Hexane	212	208	202	98	95	55-130	3	25	
67-66-3	Chloroform	216	209	203	97	94	71-114	3	25	
109-99-9	Tetrahydrofuran (THF)	402	451	438	112	109	73-114	3	25	
107-06-2	1,2-Dichloroethane	204	210	205	103	100	71-119	3	25	
71-55-6	1,1,1-Trichloroethane	210	196	191	93	91	73-119	2	25	
71-43-2	Benzene	204	220	215	108	105	72-113	3	25	
56-23-5	Carbon Tetrachloride	210	211	205	100	98	67-123	2	25	
110-82-7	Cyclohexane	426	436	423	102	99	70-119	3	25	
78-87-5	1,2-Dichloropropane	214	218	212	102	99	70-118	3	25	
75-27-4	Bromodichloromethane	216	218	211	101	98	74-119	3	25	
79-01-6	Trichloroethene	212	199	193	94	91	74-115	3	25	
123-91-1	1,4-Dioxane	212	240	234	113	110	77-124	3	25	
80-62-6	Methyl Methacrylate	428	455	445	106	104	78-126	2	25	
142-82-5	n-Heptane	214	228	223	107	104	70-119	3	25	
10061-01-5	cis-1,3-Dichloropropene	212	278	270	131	127	81-126	3	25	L
108-10-1	4-Methyl-2-pentanone	426	469	456	110	107	73-129	3	25	
10061-02-6	trans-1,3-Dichloropropene	196	252	246	129	126	80-127	2	25	L
79-00-5	1,1,2-Trichloroethane	216	213	207	99	96	78-117	3	25	
108-88-3	Toluene	214	211	206	99	96	70-118	3	25	
591-78-6	2-Hexanone	426	485	471	114	111	74-132	3	25	
124-48-1	Dibromochloromethane	214	221	213	103	100	69-137	3	25	
106-93-4	1,2-Dibromoethane	204	221	214	108	105	76-128	3	25	
123-86-4	n-Butyl Acetate	424	485	471	114	111	75-134	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. L = Laboratory control sample recovery outside the specified limits, results may be biased high.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: New York State DEC
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P230321-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 3/22/23
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
111-65-9	n-Octane	212	230	224	108	106	68-120	2	25	
127-18-4	Tetrachloroethene	214	175	169	82	79	63-130	4	25	
108-90-7	Chlorobenzene	216	213	207	99	96	70-118	3	25	
100-41-4	Ethylbenzene	218	220	213	101	98	71-123	3	25	
179601-23-1	m,p-Xylenes	430	436	423	101	98	67-127	3	25	
75-25-2	Bromoform	218	203	197	93	90	65-149	3	25	
100-42-5	Styrene	214	255	248	119	116	76-132	3	25	
95-47-6	o-Xylene	216	218	211	101	98	69-124	3	25	
111-84-2	n-Nonane	214	232	225	108	105	64-127	3	25	
79-34-5	1,1,2,2-Tetrachloroethane	216	250	243	116	113	69-128	3	25	
98-82-8	Cumene	212	216	210	102	99	69-125	3	25	
80-56-8	alpha-Pinene	216	268	261	124	121	68-129	2	25	
103-65-1	n-Propylbenzene	212	218	212	103	100	70-127	3	25	
622-96-8	4-Ethyltoluene	218	226	219	104	100	69-127	4	25	
108-67-8	1,3,5-Trimethylbenzene	216	219	212	101	98	66-129	3	25	
95-63-6	1,2,4-Trimethylbenzene	212	217	210	102	99	63-142	3	25	
100-44-7	Benzyl Chloride	428	663	649	155	152	73-145	2	25	L
541-73-1	1,3-Dichlorobenzene	214	204	199	95	93	67-136	2	25	
106-46-7	1,4-Dichlorobenzene	214	205	199	96	93	63-134	3	25	
95-50-1	1,2-Dichlorobenzene	212	199	194	94	92	64-139	2	25	
5989-27-5	d-Limonene	208	248	241	119	116	63-137	3	25	
96-12-8	1,2-Dibromo-3-chloropropane	416	409	400	98	96	72-145	2	25	
120-82-1	1,2,4-Trichlorobenzene	440	425	417	97	95	62-154	2	25	
91-20-3	Naphthalene	220	311	309	141	140	62-156	0.7	25	
87-68-3	Hexachlorobutadiene	218	171	168	78	77	55-142	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. L = Laboratory control sample recovery outside the specified limits, results may be biased high.

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 3

Client: New York State DEC
Client Sample ID: Building-2-IA-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-007DUP

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC02178

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 0.30 Liter(s)

Initial Pressure (psig): 0.0

Final Pressure (psig): 3.86

Canister Dilution Factor: 1.26

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
Propene	20.2	11.8	22.1	12.8	21.15	9	25	
Dichlorodifluoromethane (CFC 12)	2.36	0.477	2.32	0.469	2.34	2	25	
Chloromethane	1.55	0.749	1.48	0.716	1.515	5	25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	ND	ND	ND	-	-	25	
Vinyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Butadiene	ND	ND	ND	ND	-	-	25	
Bromomethane	ND	ND	ND	ND	-	-	25	
Chloroethane	ND	ND	ND	ND	-	-	25	
Ethanol	352	187	345	183	348.5	2	25	
Acetonitrile	ND	ND	ND	ND	-	-	25	
Acrolein	ND	ND	ND	ND	-	-	25	
Acetone	231	97.4	228	96.0	229.5	1	25	
Trichlorofluoromethane	ND	ND	ND	ND	-	-	25	
2-Propanol (Isopropyl Alcohol)	141	57.6	138	56.3	139.5	2	25	
Acrylonitrile	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethene	ND	ND	ND	ND	-	-	25	
Methylene Chloride	27.9	8.03	27.7	7.98	27.8	0.7	25	
3-Chloro-1-propene (Allyl Chloride)	ND	ND	ND	ND	-	-	25	
Trichlorotrifluoroethane	ND	ND	ND	ND	-	-	25	
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	
Vinyl Acetate	ND	ND	ND	ND	-	-	25	
2-Butanone (MEK)	45.1	15.3	44.2	15.0	44.65	2	25	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 3

Client: New York State DEC
Client Sample ID: Building-2-IA-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-007DUP

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC02178

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 0.30 Liter(s)

Initial Pressure (psig): 0.0

Final Pressure (psig): 3.86

Canister Dilution Factor: 1.26

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
cis-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
Ethyl Acetate	569	158	562	156	565.5	1	25	
n-Hexane	28.5	8.09	28.0	7.93	28.25	2	25	
Chloroform	3.32	0.680	3.29	0.674	3.305	0.9	25	
Tetrahydrofuran (THF)	43.2	14.7	42.5	14.4	42.85	2	25	
1,2-Dichloroethane	7.63	1.89	7.53	1.86	7.58	1	25	
1,1,1-Trichloroethane	ND	ND	ND	ND	-	-	25	
Benzene	15.8	4.96	15.8	4.94	15.8	0	25	
Carbon Tetrachloride	ND	ND	ND	ND	-	-	25	
Cyclohexane	27.3	7.95	27.6	8.01	27.45	1	25	
1,2-Dichloropropane	23.7	5.12	23.7	5.13	23.7	0	25	
Bromodichloromethane	ND	ND	ND	ND	-	-	25	
Trichloroethene	ND	ND	ND	ND	-	-	25	
1,4-Dioxane	ND	ND	ND	ND	-	-	25	
Methyl Methacrylate	11.5	2.81	11.8	2.88	11.65	3	25	
n-Heptane	16.8	4.11	17.1	4.18	16.95	2	25	
cis-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
4-Methyl-2-pentanone	6.91	1.69	6.96	1.70	6.935	0.7	25	
trans-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
1,1,2-Trichloroethane	ND	ND	ND	ND	-	-	25	
Toluene	427	113	423	112	425	0.9	25	
2-Hexanone	ND	ND	ND	ND	-	-	25	
Dibromochloromethane	ND	ND	ND	ND	-	-	25	
1,2-Dibromoethane	ND	ND	ND	ND	-	-	25	
n-Butyl Acetate	11.4	2.39	11.3	2.38	11.35	0.9	25	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Page 3 of 3

Client: New York State DEC
Client Sample ID: Building-2-IA-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-007DUP

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC02178

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 0.30 Liter(s)

Initial Pressure (psig): 0.0

Final Pressure (psig): 3.86

Canister Dilution Factor: 1.26

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
n-Octane	5.38	1.15	5.23	1.12	5.305	3	25	
Tetrachloroethene	1.48	0.219	1.49	0.219	1.485	0.7	25	
Chlorobenzene	ND	ND	ND	ND	-	-	25	
Ethylbenzene	35.3	8.12	35.3	8.13	35.3	0	25	
m,p-Xylenes	93.4	21.5	92.8	21.4	93.1	0.6	25	
Bromoform	ND	ND	ND	ND	-	-	25	
Styrene	12.2	2.86	12.1	2.84	12.15	0.8	25	
o-Xylene	37.7	8.67	37.1	8.54	37.4	2	25	
n-Nonane	2.48	0.473	2.48	0.473	2.48	0	25	
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	-	-	25	
Cumene	ND	ND	ND	ND	-	-	25	
alpha-Pinene	16.7	3.00	16.4	2.95	16.55	2	25	
n-Propylbenzene	2.42	0.491	2.43	0.495	2.425	0.4	25	
4-Ethyltoluene	3.48	0.709	3.49	0.709	3.485	0.3	25	
1,3,5-Trimethylbenzene	2.89	0.587	2.84	0.579	2.865	2	25	
1,2,4-Trimethylbenzene	10.7	2.19	10.6	2.16	10.65	0.9	25	
Benzyl Chloride	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	
d-Limonene	56.6	10.2	55.6	9.98	56.1	2	25	
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	-	-	25	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	-	-	25	
Naphthalene	ND	ND	ND	ND	-	-	25	
Hexachlorobutadiene	ND	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: New York State DEC
Client Project ID: Armonk PWS

ALS Project ID: P2301184

Method Blank Summary

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Silonite Canister(s)
Test Notes:

Lab File ID: 03212305.D
Date Analyzed: 3/21/23
Time Analyzed: 02:28

Client Sample ID	ALS Sample ID	Lab File ID	Time Analyzed
Lab Control Sample	P230321-LCS	03212306.D	03:00
Duplicate Lab Control Sample	P230321-DLCS	03212307.D	03:32
Armonk-OA-031423	P2301184-001	03212311.D	10:39
Building-1-SS1-031423	P2301184-002	03212312.D	11:12
Building-1-SS2-031423	P2301184-003	03212313.D	11:44
Building-2-IA-031423	P2301184-007	03212314.D	12:21
Building-1-IA-031423	P2301184-004	03212315.D	12:53
Building-2-IA-031423 (Lab Duplicate)	P2301184-007DUP	03212316.D	13:25
Building-2-SS1-031423	P2301184-005	03212317.D	14:25
Building-2-SS2-031423	P2301184-006	03212318.D	15:43
Building-3-IA-031423	P2301184-008	03212319.D	16:15
Building-4-SS1-031423	P2301184-009	03212320.D	16:47
Building-4-IA1-031423	P2301184-010	03212321.D	17:19
Building-4-SS2-031423	P2301184-011	03212322.D	17:51
Building-4-IA2-031423	P2301184-012	03212323.D	18:23
Armonk-IA-Dup-031423	P2301184-013	03212324.D	18:55

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: New York State DEC
Client Project ID: Armonk PWS

ALS Project ID: P2301184

Method Blank Summary

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Silonite Canister(s)
Test Notes:

Lab File ID: 03212333.D
Date Analyzed: 3/21/23
Time Analyzed: 23:43

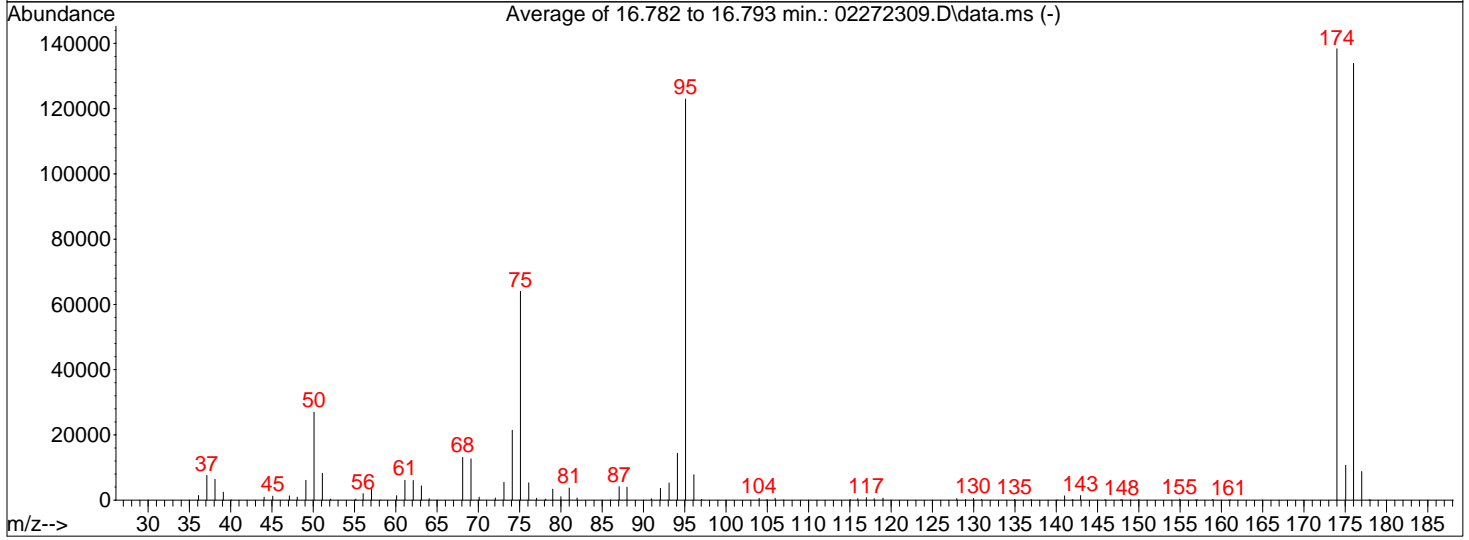
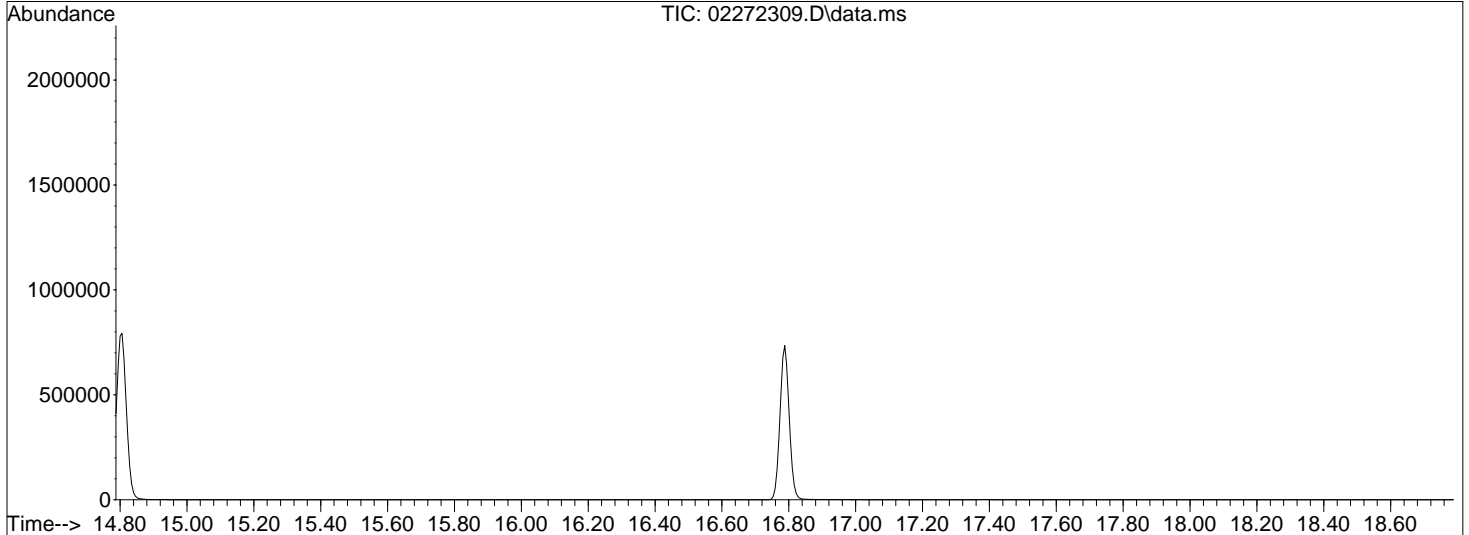
Client Sample ID	ALS Sample ID	Lab File ID	Time Analyzed
Lab Control Sample	P230321-LCS	03212334.D	00:15
Duplicate Lab Control Sample	P230321-DLCS	03212335.D	00:47
Building-3-IA-031423 (Dilution)	P2301184-008	03212337.D	05:23
Armonk-IA-Dup-031423 (Dilution)	P2301184-013	03212338.D	05:55

Data Path : I:\MS09\DATA\2023 02\27\
 Data File : 02272309.D
 Acq On : 27 Feb 2023 13:28
 Operator : SC
 Sample : 12.5ng TO-15 BFB STD
 Misc : S35-02212305
 ALS Vial : 2 Sample Multiplier: 1

U 2/27/23

Integration File: LSCINT.P

Method : I:\MS09\METHODS\R9022723.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Mon Feb 27 17:09:40 2023



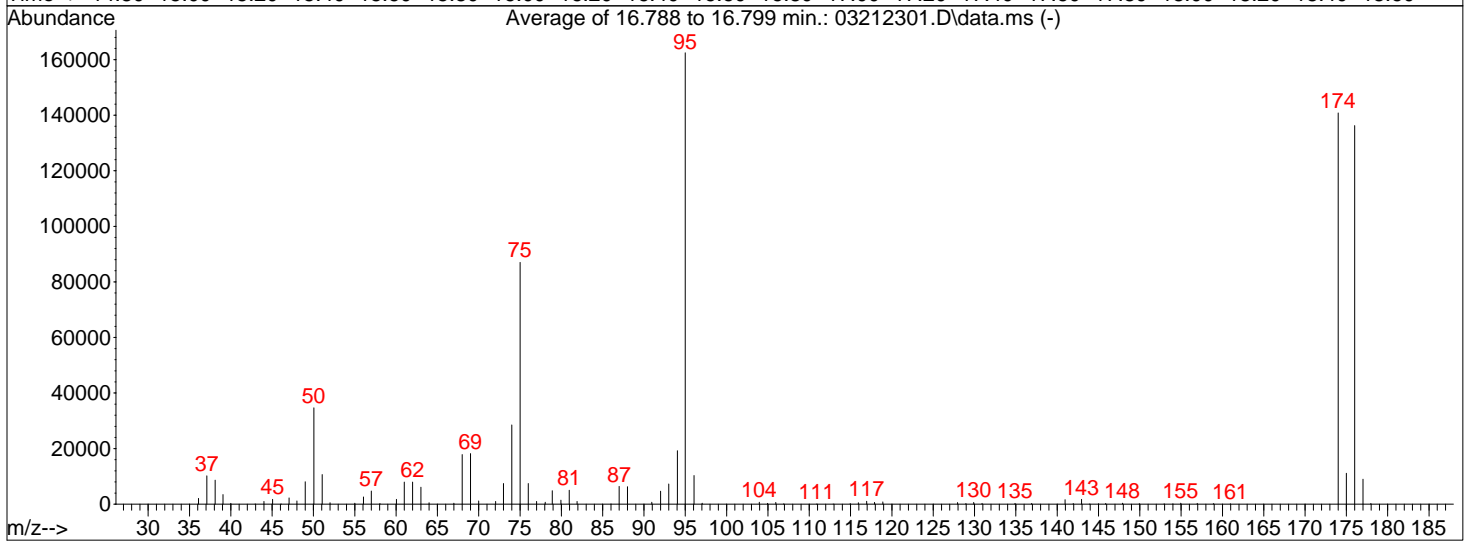
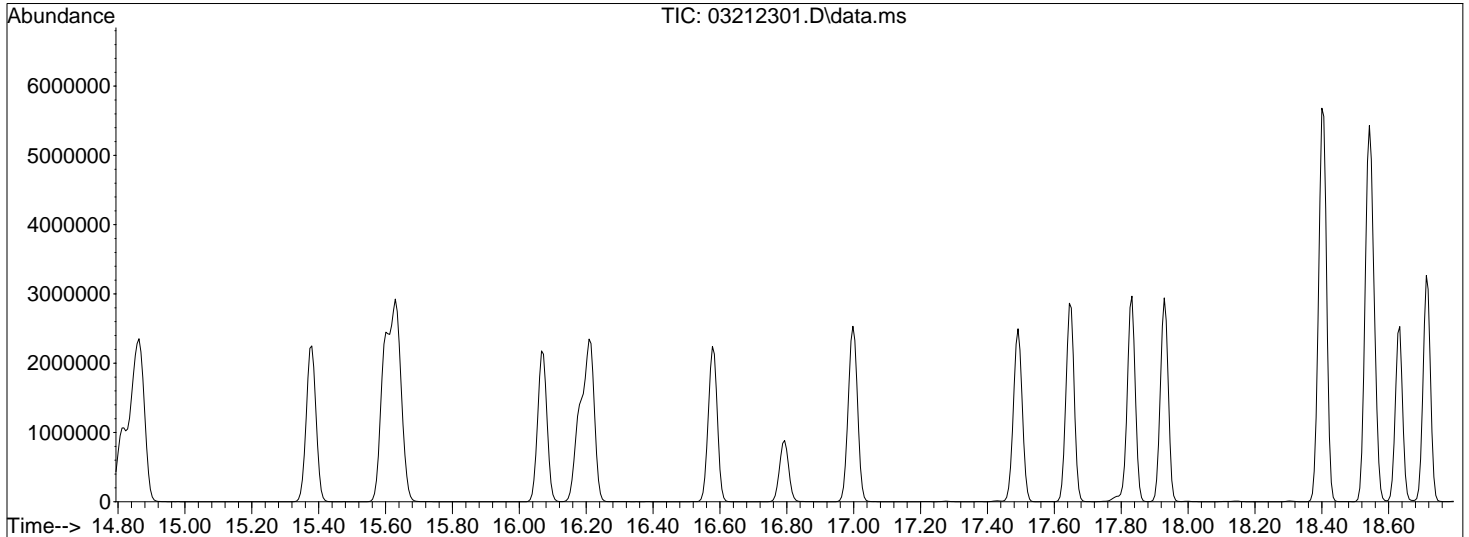
AutoFind: Scans 2448, 2449, 2450; Background Corrected with Scan 2440

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	21.9	26952	PASS
75	95	30	66	52.1	63995	PASS
95	95	100	100	100.0	122944	PASS
96	95	5	9	6.3	7791	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	112.5	138352	PASS
175	174	4	9	7.7	10691	PASS
176	174	93	101	96.8	133875	PASS
177	176	5	9	6.6	8780	PASS

Data Path : I:\MS09\DATA\2023 03\21\
 Data File : 03212301.D
 Acq On : 21 Mar 2023 00:20
 Operator : WA/SR
 Sample : CCV R09032123 25ng
 Misc : S35-02212305/S37-03162303 (4/15)
 ALS Vial : 2 Sample Multiplier: 1

Integration File: LSCINT.P

Method : I:\MS09\METHODS\R9022723.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Tue Feb 28 08:30:18 2023



AutoFind: Scans 2449, 2450, 2451; Background Corrected with Scan 2440

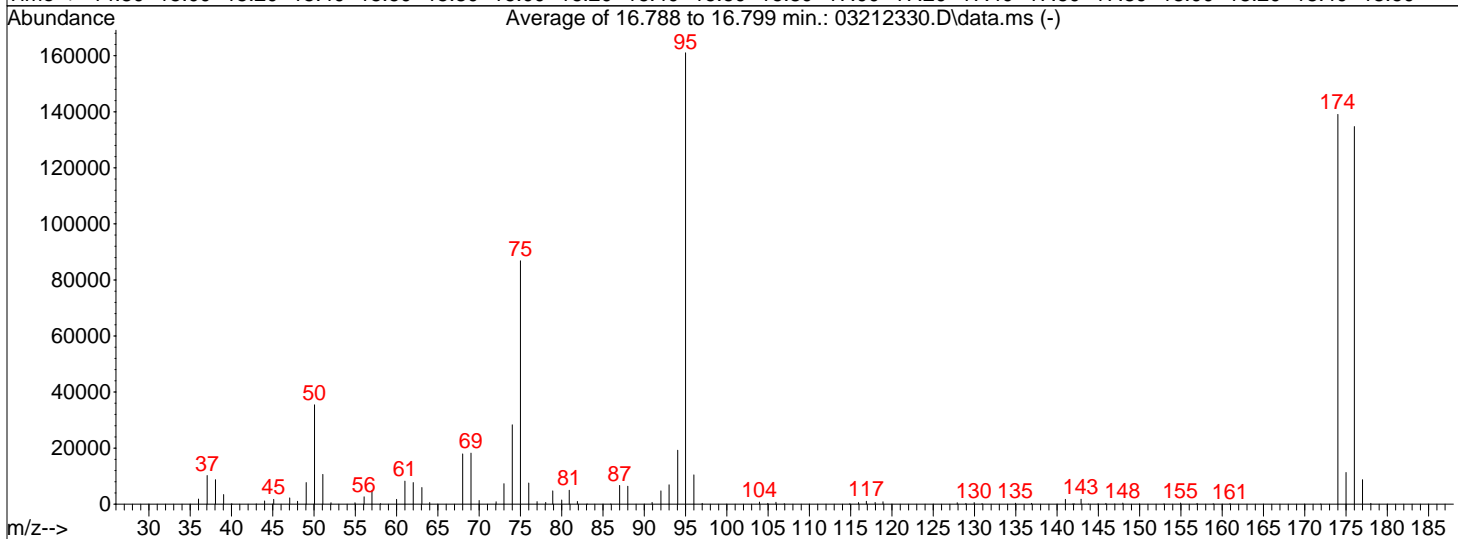
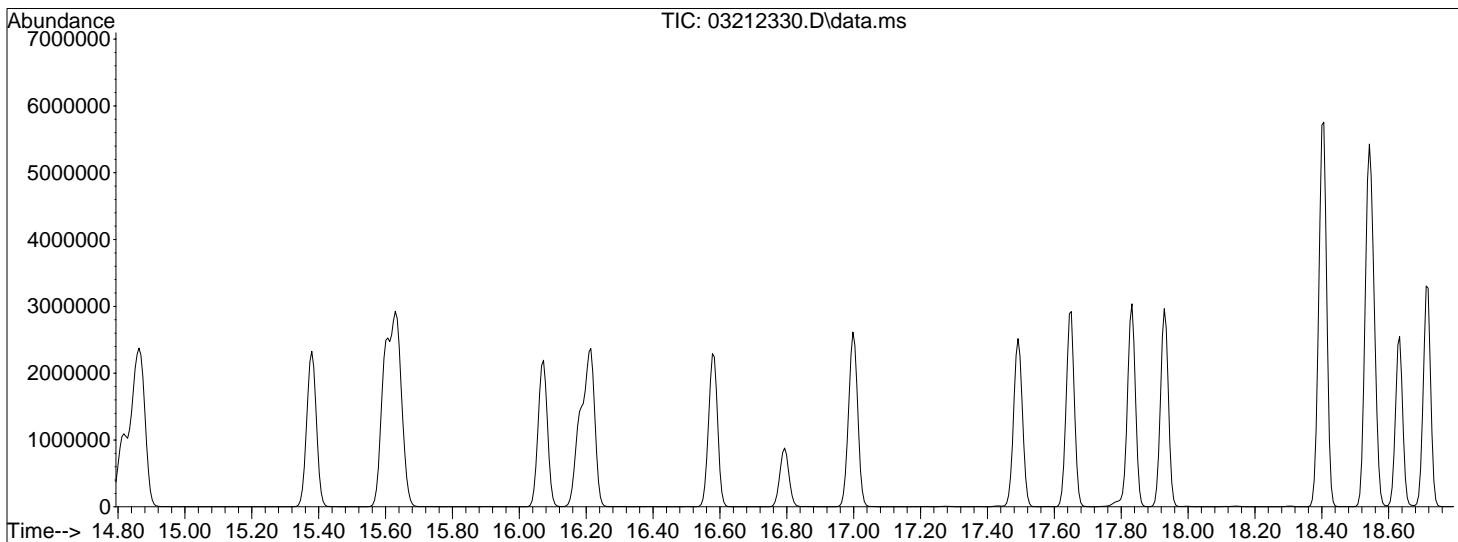
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	21.4	34685	PASS
75	95	30	66	53.6	87037	PASS
95	95	100	100	100.0	162453	PASS
96	95	5	9	6.3	10300	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	86.7	140821	PASS
175	174	4	9	7.9	11131	PASS
176	174	93	101	96.8	136280	PASS
177	176	5	9	6.6	8969	PASS

WA 3/21/23

Data Path : I:\MS09\DATA\2023 03\21\
 Data File : 03212330.D
 Acq On : 21 Mar 2023 22:07
 Operator : WA/SR
 Sample : CCV2 R09032123_25ng
 Misc : S35-02212305
 ALS Vial : 2 Sample Multiplier: 1

Integration File: LSCINT.P

Method : I:\MS09\METHODS\R9022723.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Tue Feb 28 08:30:18 2023



AutoFind: Scans 2449, 2450, 2451; Background Corrected with Scan 2441

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.0	35432	PASS
75	95	30	66	53.9	86813	PASS
95	95	100	100	100.0	161045	PASS
96	95	5	9	6.5	10467	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	86.4	139072	PASS
175	174	4	9	8.1	11315	PASS
176	174	93	101	96.9	134747	PASS
177	176	5	9	6.5	8713	PASS

WA 3/22/23

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: New York State DEC
Client Project ID: Armonk PWS

ALS Project ID: P2301184

Internal Standard Area and RT Summary

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Silonite Canister(s)
Test Notes:

Lab File ID: 03212301.D
Date Analyzed: 3/21/23
Time Analyzed: 00:20

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
24 Hour Standard	166333	7.23	751591	9.29	172820	14.81
Upper Limit	232866	7.56	1052227	9.62	241948	15.14
Lower Limit	99800	6.90	450955	8.96	103692	14.48

Client Sample ID		IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)
Client Sample ID		AREA #	RT #	AREA #
01	Method Blank	158951	7.20	714541
02	Lab Control Sample	161249	7.24	719002
03	Duplicate Lab Control Sample	162406	7.24	731549
04	Armonk-OA-031423	164085	7.20	743259
05	Building-1-SS1-031423	163416	7.20	732492
06	Building-1-SS2-031423	165507	7.20	740889
07	Building-2-IA-031423	168754	7.23	767233
08	Building-1-IA-031423	165594	7.20	744389
09	Building-2-IA-031423 (Lab Duplicate)	170401	7.23	767052
10	Building-2-SS1-031423	171852	7.20	778024
11	Building-2-SS2-031423	174448	7.20	781739
12	Building-3-IA-031423	166120	7.21	746963
13	Building-4-SS1-031423	165379	7.20	744989
14	Building-4-IA1-031423	163410	7.20	734287
15	Building-4-SS2-031423	162747	7.20	734962
16	Building-4-IA2-031423	169089	7.21	755829
17	Armonk-IA-Dup-031423	167765	7.21	746360
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: New York State DEC
Client Project ID: Armonk PWS

ALS Project ID: P2301184

Internal Standard Area and RT Summary

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister(s)
 Test Notes:

Lab File ID: 03212330.D
 Date Analyzed: 3/21/23
 Time Analyzed: 22:07

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
24 Hour Standard	169799	7.24	766039	9.29	172844	14.81
Upper Limit	237719	7.57	1072455	9.62	241982	15.14
Lower Limit	101879	6.91	459623	8.96	103706	14.48

Client Sample ID		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
01	Method Blank	158011	7.20	719654	9.26	159706	14.81
02	Lab Control Sample	163076	7.24	735219	9.29	164085	14.81
03	Duplicate Lab Control Sample	166502	7.24	751916	9.29	168614	14.81
04	Building-3-IA-031423 (Dilution)	174652	7.20	769684	9.26	167347	14.80
05	Armonk-IA-Dup-031423 (Dilution)	164463	7.20	735796	9.26	160539	14.81
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.

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 amended 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

RESULTS OF ANALYSIS

Page 1 of 3

Client: New York State DEC
Client Sample ID: Armonk-OA-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01085

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.28 Final Pressure (psig): 3.54

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	1.7	0.67	0.99	0.39	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	0.67	0.43	0.14	
74-87-3	Chloromethane	0.59	0.26	0.28	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.66	ND	0.094	
75-01-4	Vinyl Chloride	ND	0.14	ND	0.054	
106-99-0	1,3-Butadiene	ND	0.26	ND	0.12	
74-83-9	Bromomethane	ND	0.26	ND	0.068	
75-00-3	Chloroethane	ND	0.26	ND	0.10	
64-17-5	Ethanol	ND	6.3	ND	3.3	
75-05-8	Acetonitrile	ND	1.3	ND	0.75	
107-02-8	Acrolein	ND	1.3	ND	0.55	
67-64-1	Acetone	ND	6.6	ND	2.8	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	0.66	0.18	0.12	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.3	ND	0.53	
107-13-1	Acrylonitrile	ND	1.3	ND	0.58	
75-35-4	1,1-Dichloroethene	ND	0.14	ND	0.035	
75-09-2	Methylene Chloride	ND	0.67	ND	0.19	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.67	ND	0.21	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.68	ND	0.089	
75-15-0	Carbon Disulfide	ND	1.3	ND	0.43	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	ND	0.035	
75-34-3	1,1-Dichloroethane	ND	0.14	ND	0.034	
1634-04-4	Methyl tert-Butyl Ether	ND	0.68	ND	0.19	
108-05-4	Vinyl Acetate	ND	6.3	ND	1.8	
78-93-3	2-Butanone (MEK)	ND	1.3	ND	0.44	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3

Client: New York State DEC
Client Sample ID: Armonk-OA-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01085

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.28 Final Pressure (psig): 3.54

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.14	ND	0.035	
141-78-6	Ethyl Acetate	5.1	2.6	1.4	0.73	
110-54-3	n-Hexane	ND	0.67	ND	0.19	
67-66-3	Chloroform	ND	0.14	ND	0.028	
109-99-9	Tetrahydrofuran (THF)	1.1	0.63	0.36	0.21	
107-06-2	1,2-Dichloroethane	ND	0.14	ND	0.034	
71-55-6	1,1,1-Trichloroethane	ND	0.14	ND	0.025	
71-43-2	Benzene	0.99	0.14	0.31	0.043	
56-23-5	Carbon Tetrachloride	0.34	0.14	0.053	0.022	
110-82-7	Cyclohexane	ND	1.3	ND	0.38	
78-87-5	1,2-Dichloropropane	ND	0.14	ND	0.030	
75-27-4	Bromodichloromethane	ND	0.14	ND	0.021	
79-01-6	Trichloroethene	ND	0.14	ND	0.026	
123-91-1	1,4-Dioxane	ND	0.67	ND	0.19	
80-62-6	Methyl Methacrylate	ND	1.4	ND	0.34	
142-82-5	n-Heptane	ND	0.67	ND	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.68	ND	0.15	
108-10-1	4-Methyl-2-pentanone	ND	1.4	ND	0.34	
10061-02-6	trans-1,3-Dichloropropene	ND	0.64	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.14	ND	0.025	
108-88-3	Toluene	3.7	0.67	0.97	0.18	
591-78-6	2-Hexanone	ND	1.4	ND	0.34	
124-48-1	Dibromochloromethane	ND	0.14	ND	0.016	
106-93-4	1,2-Dibromoethane	ND	0.14	ND	0.018	
123-86-4	n-Butyl Acetate	ND	1.3	ND	0.27	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3 of 3

Client: New York State DEC
Client Sample ID: Armonk-OA-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01085

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.28 Final Pressure (psig): 3.54

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.68	ND	0.15	
127-18-4	Tetrachloroethene	ND	0.14	ND	0.020	
108-90-7	Chlorobenzene	ND	0.67	ND	0.15	
100-41-4	Ethylbenzene	0.73	0.67	0.17	0.15	
179601-23-1	m,p-Xylenes	2.2	1.4	0.51	0.32	
75-25-2	Bromoform	ND	0.68	ND	0.066	
100-42-5	Styrene	ND	0.67	ND	0.16	
95-47-6	o-Xylene	0.83	0.67	0.19	0.15	
111-84-2	n-Nonane	ND	0.67	ND	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	ND	0.020	
98-82-8	Cumene	ND	0.68	ND	0.14	
80-56-8	alpha-Pinene	ND	1.4	ND	0.25	
103-65-1	n-Propylbenzene	ND	0.68	ND	0.14	
622-96-8	4-Ethyltoluene	ND	0.69	ND	0.14	
108-67-8	1,3,5-Trimethylbenzene	ND	0.67	ND	0.14	
95-63-6	1,2,4-Trimethylbenzene	ND	0.67	ND	0.14	
100-44-7	Benzyl Chloride	ND	2.7	ND	0.52	
541-73-1	1,3-Dichlorobenzene	ND	0.67	ND	0.11	
106-46-7	1,4-Dichlorobenzene	ND	0.67	ND	0.11	
95-50-1	1,2-Dichlorobenzene	ND	0.68	ND	0.11	
5989-27-5	d-Limonene	ND	1.4	ND	0.25	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.4	ND	0.14	
120-82-1	1,2,4-Trichlorobenzene	ND	1.4	ND	0.19	
91-20-3	Naphthalene	ND	0.69	ND	0.13	
87-68-3	Hexachlorobutadiene	ND	0.67	ND	0.063	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Data File : I:\MS09\DATA\2023 03\21\03212311.D
 Acq On : 21 Mar 2023 10:39
 Sample : P2301184-001 (1000ml)
 Misc : S35-02212305

Vial: 4
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 21 21:16:25 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

DA 3/21/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	7.20	130	164085	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.27	114	743259	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.81	54	166813	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.97	65	353557	12.727	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery	=	101.84%	
57) Toluene-d8 (SS2)	12.39	98	878505	13.860	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	110.88%	
73) Bromofluorobenzene (SS3)	16.79	174	266947	10.328	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	82.64%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.28	42	29632	1.358	ng	# 74
3) Dichlorodifluoromethan...	3.35	85	64347	1.698	ng	99
4) Chloromethane	3.49	50	11070	0.465	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	3.60	135	1202	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	3.76	54	257	N.D.		
8) Bromomethane	4.01	94	213	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	4.27	45	47923	3.078	ng	100
11) Acetonitrile	4.45	41	1760	N.D.		
12) Acrolein	4.52	56	1275	0.123	ng	95
13) Acetone	4.62	58	43242	3.665	ng	# 79
14) Trichlorofluoromethane	4.73	101	29825	0.790	ng	98
15) 2-Propanol (Isopropanol)	4.83	45	32965	0.716	ng	97
16) Acrylonitrile	5.02	53	652	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	5.33	59	1744	N.D.		
19) Methylene Chloride	5.34	84	3923	0.252	ng	99
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	5.56	151	5485	0.321	ng	86
22) Carbon Disulfide	5.60	76	1458	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	6.42	86	197	N.D.		
27) 2-Butanone (MEK)	6.65	72	5837	0.621	ng	# 89
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	7.25	87	330	N.D.		
30) Ethyl Acetate	7.26	61	29147	4.031	ng	98
31) n-Hexane	7.28	57	10966	0.365	ng	97
32) Chloroform	7.33	83	1688	N.D.		
34) Tetrahydrofuran (THF)	7.74	72	7881	0.837	ng	97
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.09	62	1357	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	9.26	61	25173	No Calib	#	
40) 1-Butanol	8.82	56	4634	No Calib	#	
41) Benzene	8.87	78	49754	0.784	ng	99
42) Carbon Tetrachloride	9.03	117	7440	0.266	ng	97
43) Cyclohexane	9.18	84	2649	0.112	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	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...	10.20	57	30306	0.391	ng	100
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS09\DATA\2023 03\21\03212311.D
 Acq On : 21 Mar 2023 10:39
 Sample : P2301184-001 (1000ml)
 Misc : S35-02212305

Vial: 4
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 21 21:16:25 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

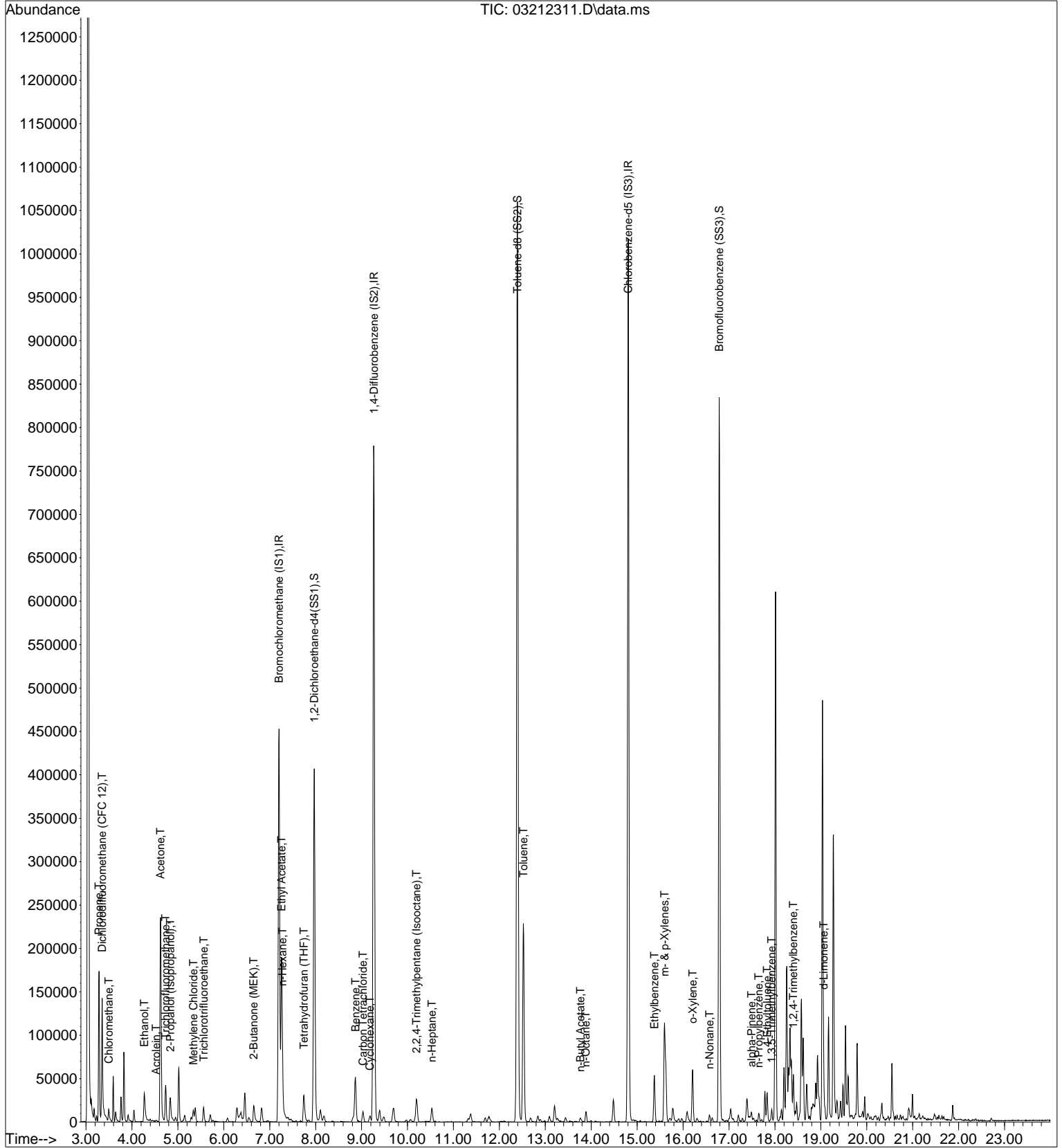
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.53	71	4027	0.255	ng	98
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.32	58	921	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.52	91	196565	2.913	ng	97
59) 2-Hexanone	12.89	43	1307	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.77	43	5660	0.120	ng	97
63) n-Octane	13.88	57	2354	0.160	ng	# 80
64) Tetrachloroethene	13.99	166	605	N.D.		
65) Chlorobenzene	14.85	112	164	N.D.		
66) Ethylbenzene	15.37	91	45006	0.581	ng	99
67) m- & p-Xylenes	15.60	91	111821	1.760	ng	98
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.07	104	1966	N.D.		
70) o-Xylene	16.21	91	41191	0.658	ng	99
71) n-Nonane	16.58	43	4312	0.109	ng	92
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	17.00	105	2826	N.D.		
75) alpha-Pinene	17.49	93	3661	0.113	ng	67
76) n-Propylbenzene	17.65	91	8924	0.097	ng	99
77) 3-Ethyltoluene	17.00	105	2826	No Calib		
78) 4-Ethyltoluene	17.83	105	11451	0.157	ng	97
79) 1,3,5-Trimethylbenzene	17.93	105	7051	0.108	ng	98
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.00	105	2826	No Calib		
82) 1,2,4-Trimethylbenzene	18.40	105	27151	0.408	ng	90
83) n-Decane	17.03	58	319	No Calib	#	
84) Benzyl Chloride	18.66	91	381	N.D.		
85) 1,3-Dichlorobenzene	18.55	146	303	N.D.		
86) 1,4-Dichlorobenzene	18.64	146	230	N.D.		
87) sec-Butylbenzene	18.72	105	898	N.D.		
88) 4-Isopropyltoluene (p-...	18.90	119	4315	N.D.		
89) 1,2,3-Trimethylbenzene	17.00	105	2826	No Calib		
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	19.06	68	12796	0.574	ng	91
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.11	58	113	No Calib	#	
94) 1,2,4-Trichlorobenzene	20.82	180	341	N.D.		
95) Naphthalene	20.93	128	4025	N.D.		
96) n-Dodecane	19.04	58	12091	No Calib	#	
97) Hexachlorobutadiene	21.28	225	223	N.D.		
98) Cyclohexanone	15.17	55	107	No Calib	#	
99) tert-Butylbenzene	18.41	119	3437	N.D.		
100) n-Butylbenzene	19.37	91	2469	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\21\03212311.D
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Vial: 4
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Inst : MS09

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DataAcq Meth:TO15.M



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WA 3/21/23

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 Response via : Initial Calibration
 DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	7.20	130	164085	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.27	114	743259	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.81	54	166813	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.97	65	353557	12.727	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery	=	101.84%	
57) Toluene-d8 (SS2)	12.39	98	878505	13.860	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	110.88%	
73) Bromofluorobenzene (SS3)	16.79	174	266947	10.328	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	82.64%	

Target Compounds

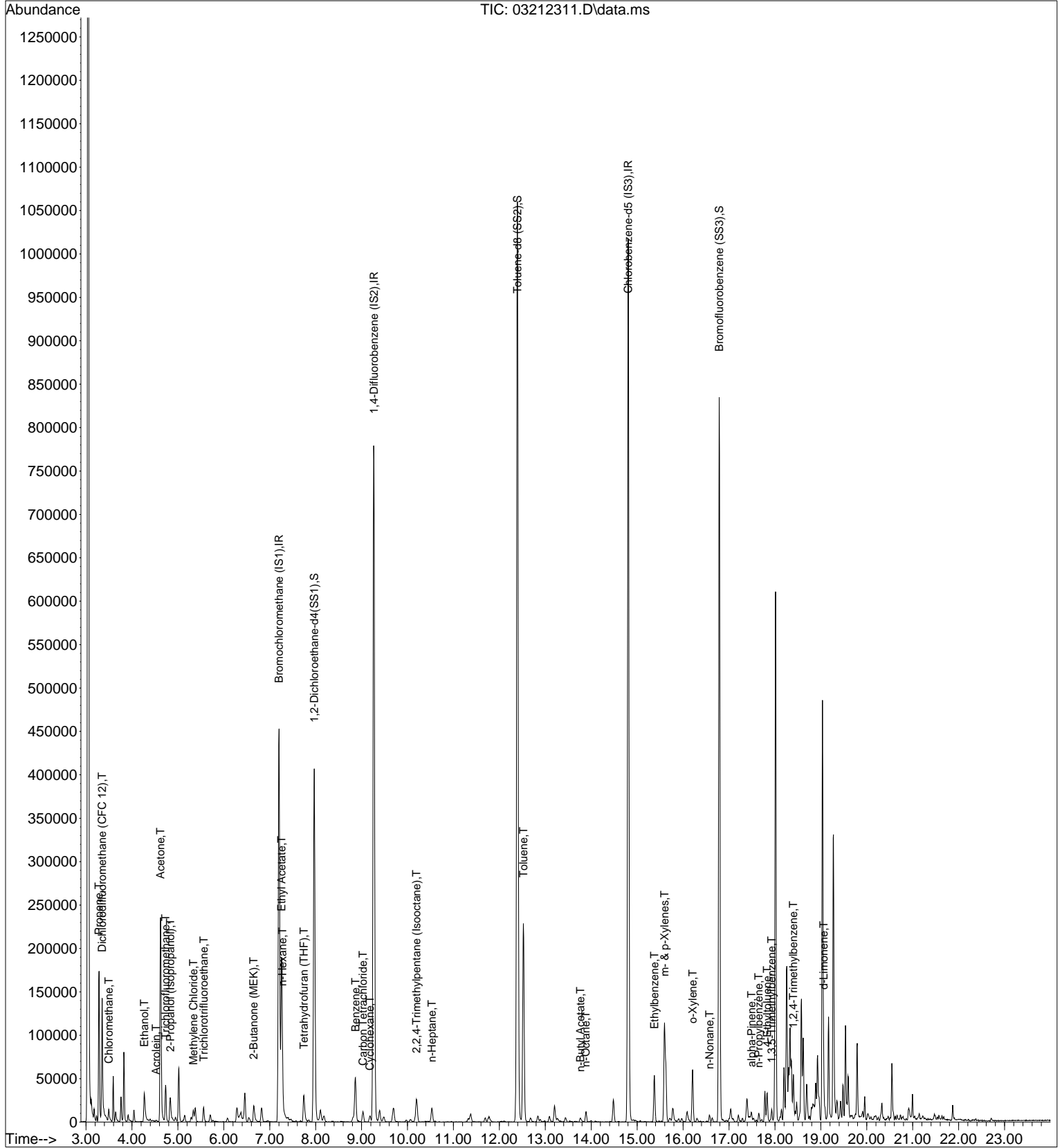
	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.28	42	29632	1.358	ng	# 74
3) Dichlorodifluoromethan...	3.35	85	64347	1.698	ng	99
4) Chloromethane	3.49	50	11070	0.465	ng	98
10) Ethanol	4.27	45	47923	3.078	ng	100
12) Acrolein	4.52	56	1275	0.123	ng	95
13) Acetone	4.62	58	43242	3.665	ng	# 79
14) Trichlorofluoromethane	4.73	101	29825	0.790	ng	98
15) 2-Propanol (Isopropanol)	4.83	45	32965	0.716	ng	97
19) Methylene Chloride	5.34	84	3923	0.252	ng	99
21) Trichlorotrifluoroethane	5.56	151	5485	0.321	ng	86
27) 2-Butanone (MEK)	6.65	72	5837	0.621	ng	# 89
30) Ethyl Acetate	7.26	61	29147	4.031	ng	98
31) n-Hexane	7.28	57	10966	0.365	ng	97
34) Tetrahydrofuran (THF)	7.74	72	7881	0.837	ng	97
41) Benzene	8.87	78	49754	0.784	ng	99
42) Carbon Tetrachloride	9.03	117	7440	0.266	ng	97
43) Cyclohexane	9.18	84	2649	0.112	ng	95
49) 2,2,4-Trimethylpentane...	10.20	57	30306	0.391	ng	100
51) n-Heptane	10.53	71	4027	0.255	ng	98
58) Toluene	12.52	91	196565	2.913	ng	97
62) n-Butyl Acetate	13.77	43	5660	0.120	ng	97
63) n-Octane	13.88	57	2354	0.160	ng	# 80
66) Ethylbenzene	15.37	91	45006	0.581	ng	99
67) m- & p-Xylenes	15.60	91	111821	1.760	ng	98
70) o-Xylene	16.21	91	41191	0.658	ng	99
71) n-Nonane	16.58	43	4312	0.109	ng	92
75) alpha-Pinene	17.49	93	3661	0.113	ng	67
76) n-Propylbenzene	17.65	91	8924	0.097	ng	99
78) 4-Ethyltoluene	17.83	105	11451	0.157	ng	97
79) 1,3,5-Trimethylbenzene	17.93	105	7051	0.108	ng	98
82) 1,2,4-Trimethylbenzene	18.40	105	27151	0.408	ng	90
91) d-Limonene	19.06	68	12796	0.574	ng	91

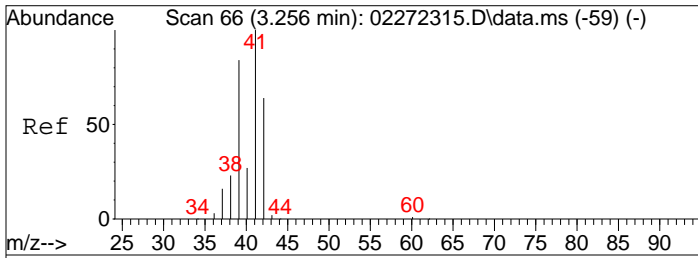
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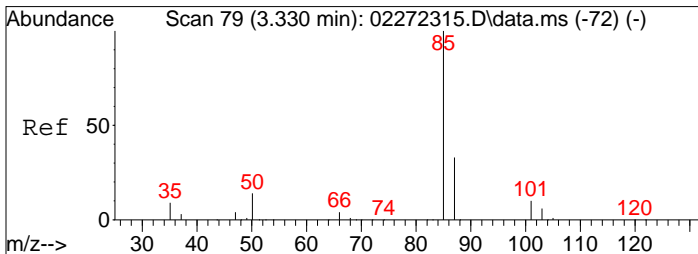
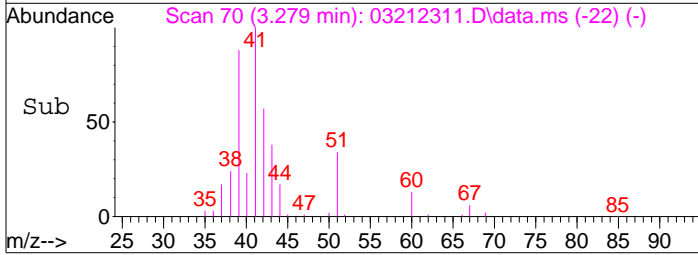
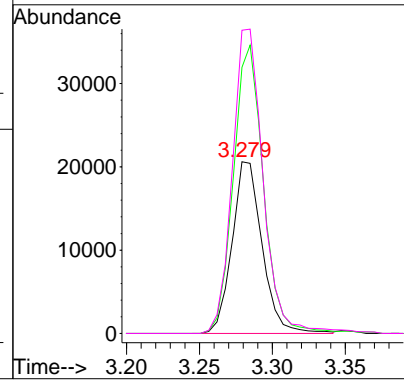
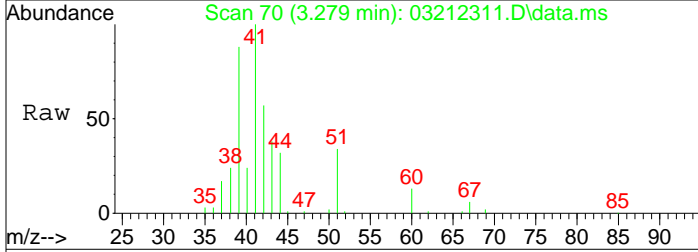
Quant Time: Mar 21 21:16:25 2023
Quant Method : I:\MS09\METHODS\R9022723.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Feb 28 08:30:18 2023
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DataAcq Meth:TO15.M





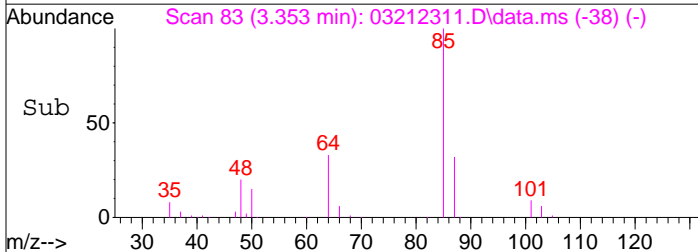
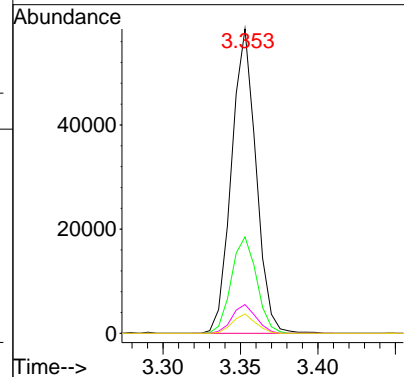
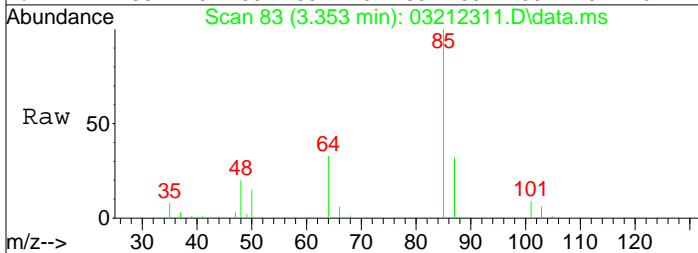
#2
 Propene
 Concen: 1.36 ng
 RT: 3.28 min Scan# 70
 Delta R.T. 0.023 min
 Lab File: 03212311.D
 Acq: 21 Mar 2023 10:39

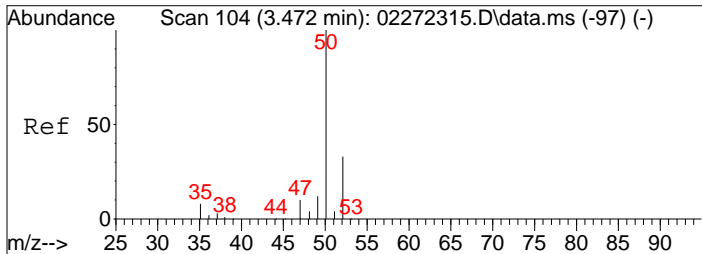
Tgt Ion:	Resp:	Lower	Upper
42	29632		
42	100		
39	168.9	110.0	150.0#
41	182.2	135.8	175.8#



#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.70 ng
 RT: 3.35 min Scan# 83
 Delta R.T. 0.003 min
 Lab File: 03212311.D
 Acq: 21 Mar 2023 10:39

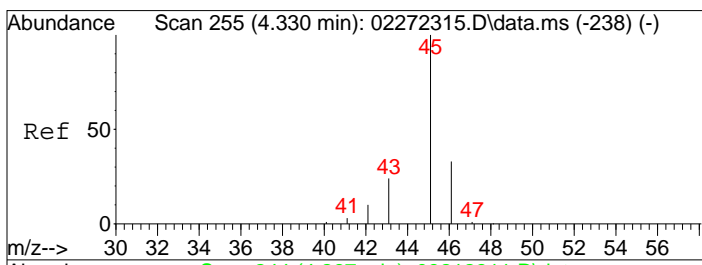
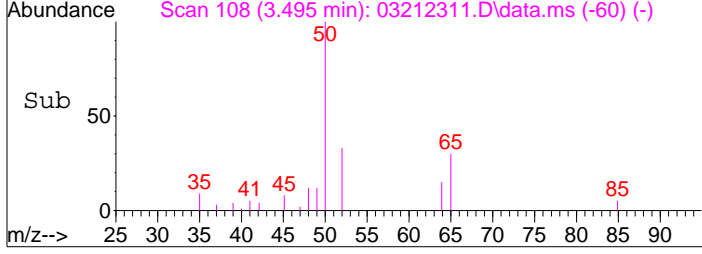
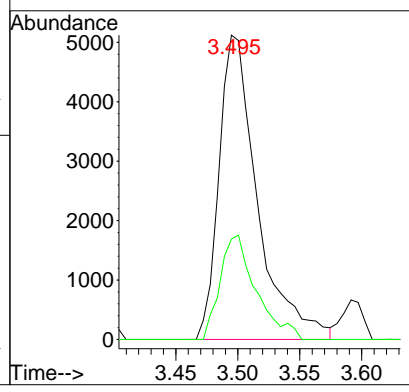
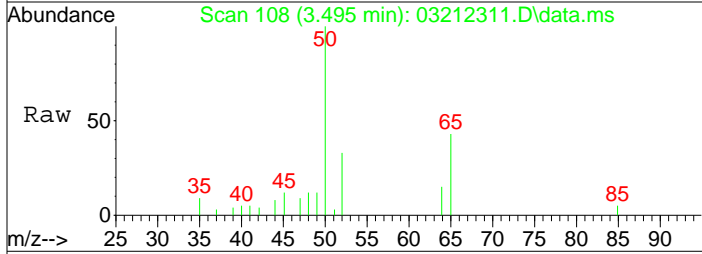
Tgt Ion:	Resp:	Lower	Upper
85	64347		
85	100		
87	32.7	12.3	52.3
101	9.3	0.0	29.7
103	6.0	0.0	26.3





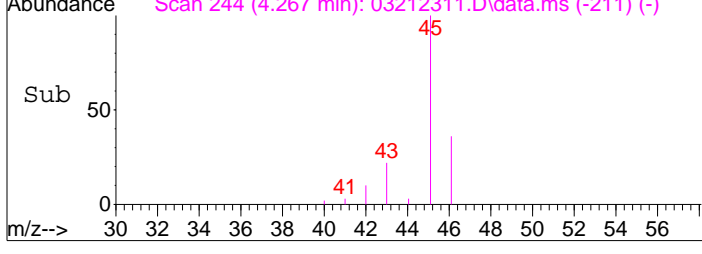
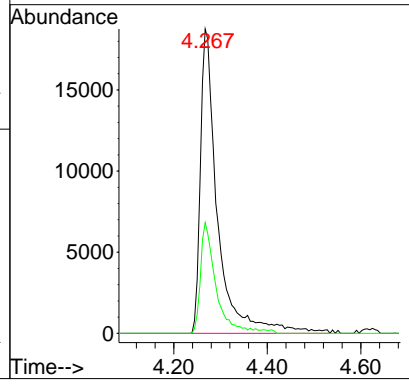
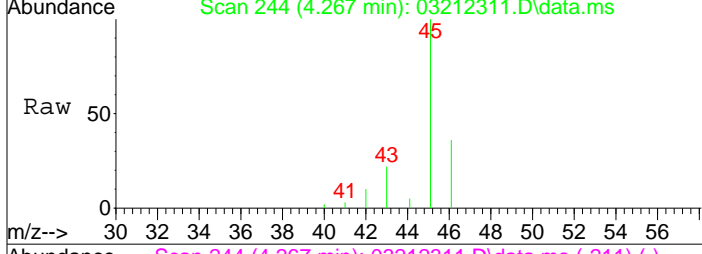
#4
 Chloromethane
 Concen: 0.47 ng
 RT: 3.49 min Scan# 108
 Delta R.T. 0.023 min
 Lab File: 03212311.D
 Acq: 21 Mar 2023 10:39

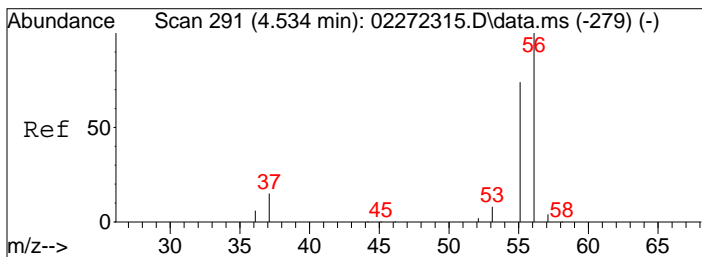
Tgt Ion	Resp	Lower	Upper
50	11070		
52	31.9	12.8	52.8



#10
 Ethanol
 Concen: 3.08 ng
 RT: 4.27 min Scan# 244
 Delta R.T. -0.063 min
 Lab File: 03212311.D
 Acq: 21 Mar 2023 10:39

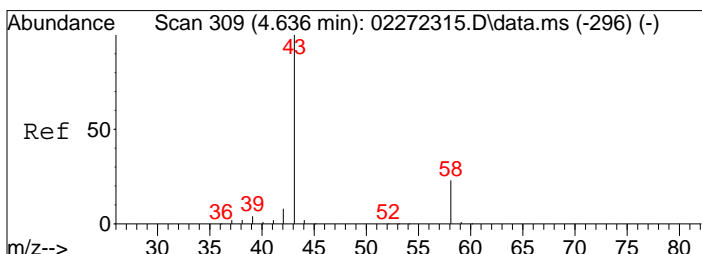
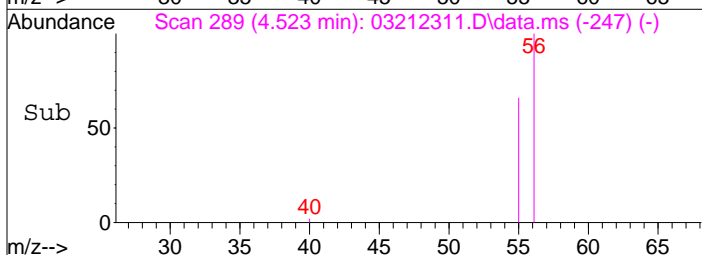
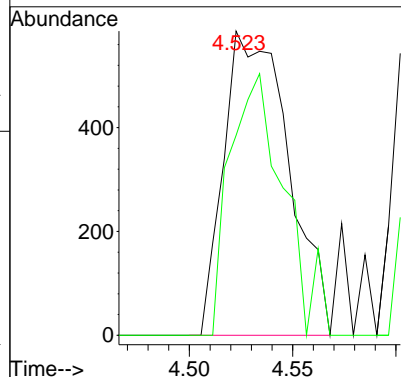
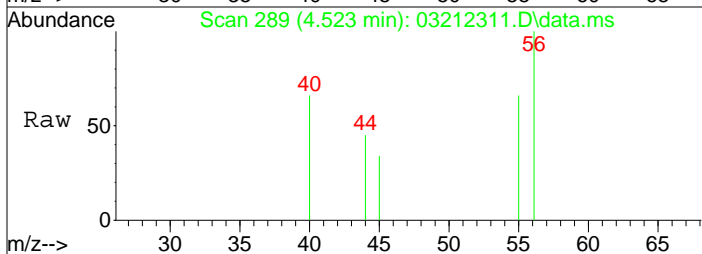
Tgt Ion	Resp	Lower	Upper
45	47923		
46	33.1	13.4	53.4





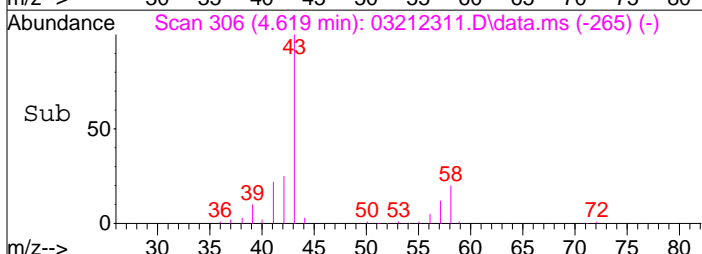
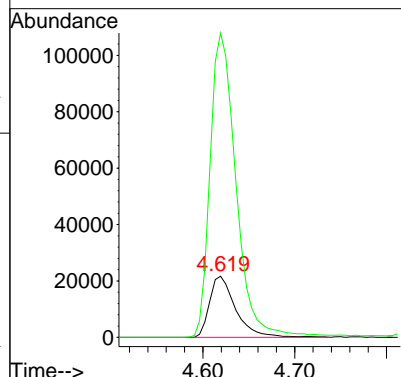
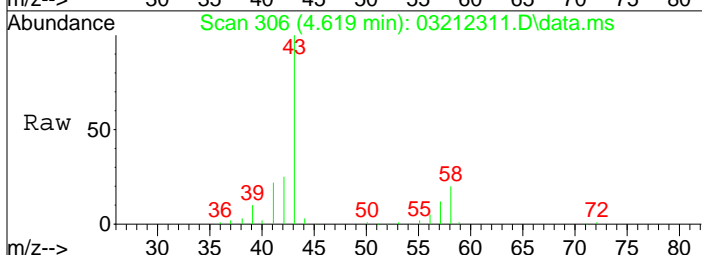
#12
 Acrolein
 Concen: 0.12 ng
 RT: 4.52 min Scan# 289
 Delta R.T. -0.011 min
 Lab File: 03212311.D
 Acq: 21 Mar 2023 10:39

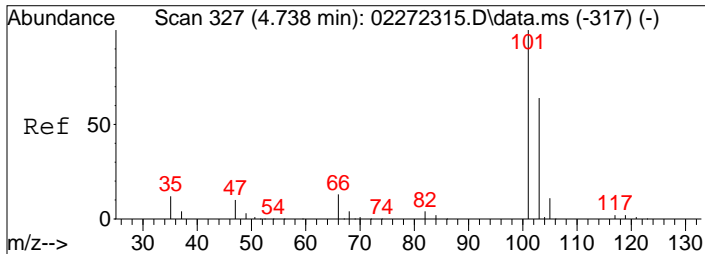
Tgt Ion:	Resp:	Lower	Upper
56	1275		
55	72.2	56.4	96.4



#13
 Acetone
 Concen: 3.66 ng
 RT: 4.62 min Scan# 306
 Delta R.T. -0.017 min
 Lab File: 03212311.D
 Acq: 21 Mar 2023 10:39

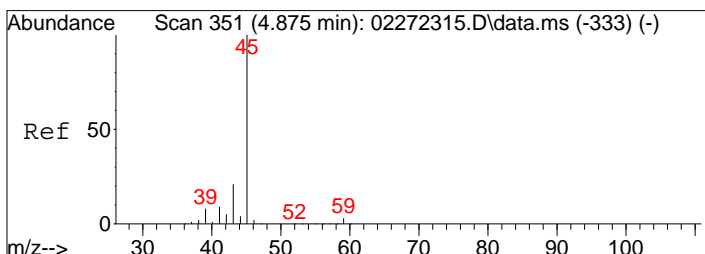
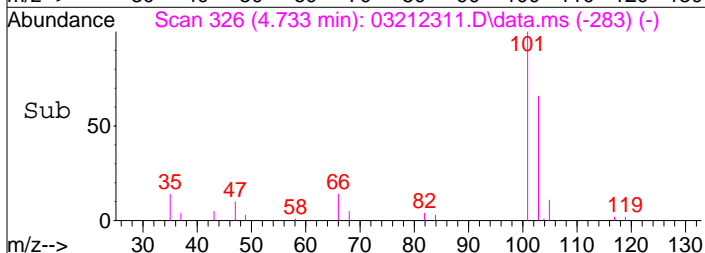
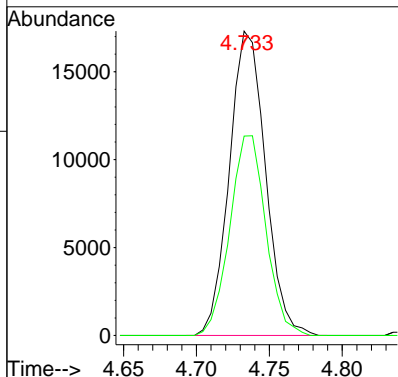
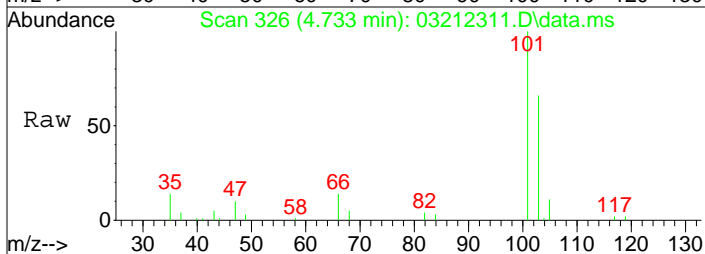
Tgt Ion:	Resp:	Lower	Upper
58	43242		
43	497.7	414.4	474.4#





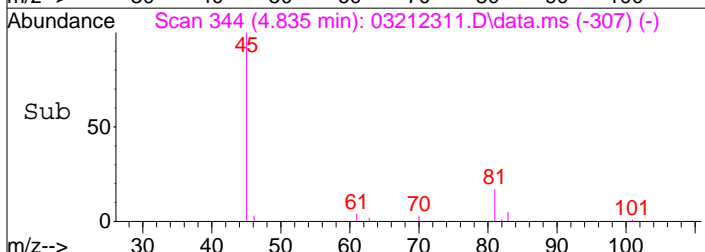
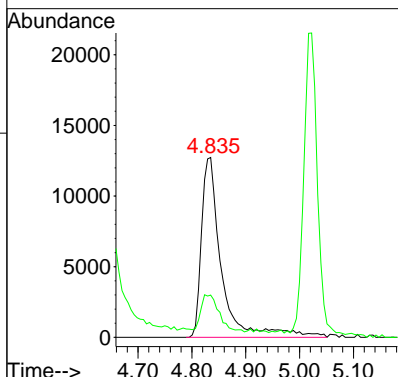
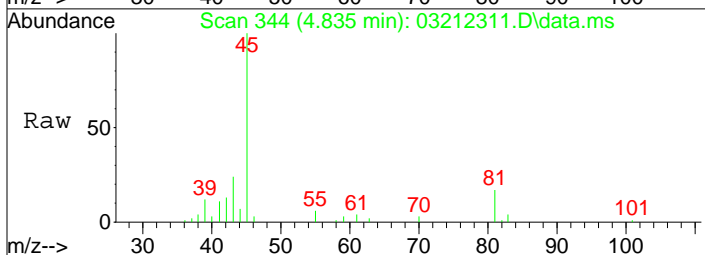
#14
 Trichlorofluoromethane
 Concen: 0.79 ng
 RT: 4.73 min Scan# 326
 Delta R.T. -0.006 min
 Lab File: 03212311.D
 Acq: 21 Mar 2023 10:39

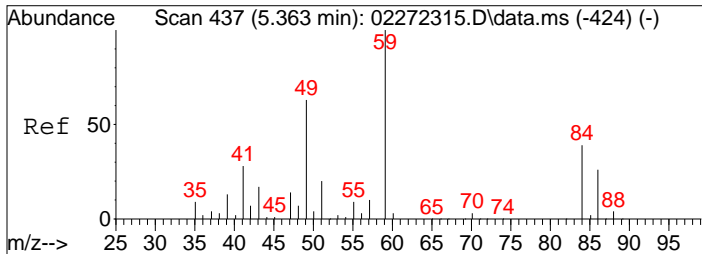
Tgt Ion: 101 Resp: 29825
 Ion Ratio Lower Upper
 101 100
 103 65.6 44.0 84.0



#15
 2-Propanol (Isopropanol)
 Concen: 0.72 ng
 RT: 4.83 min Scan# 344
 Delta R.T. -0.040 min
 Lab File: 03212311.D
 Acq: 21 Mar 2023 10:39

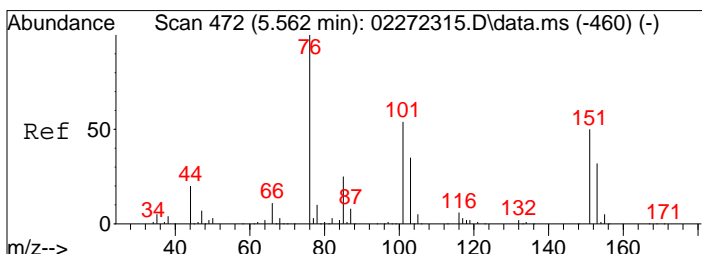
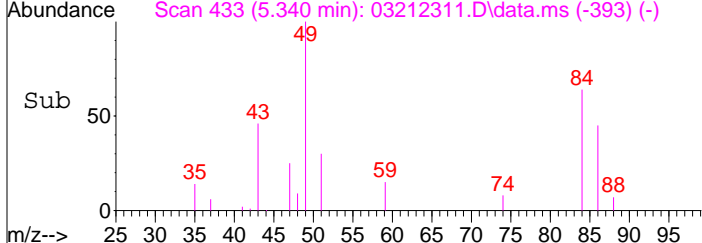
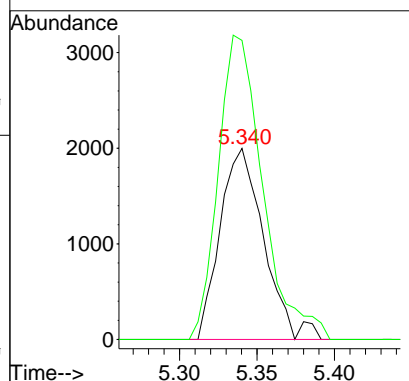
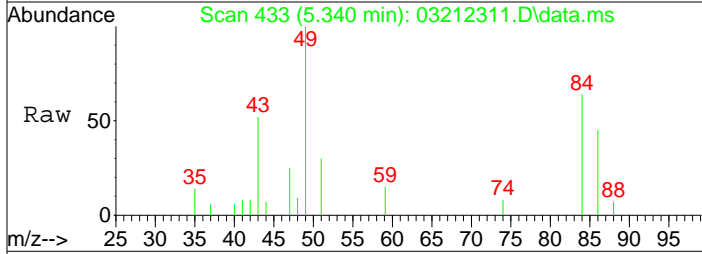
Tgt Ion: 45 Resp: 32965
 Ion Ratio Lower Upper
 45 100
 43 22.9 1.6 41.6





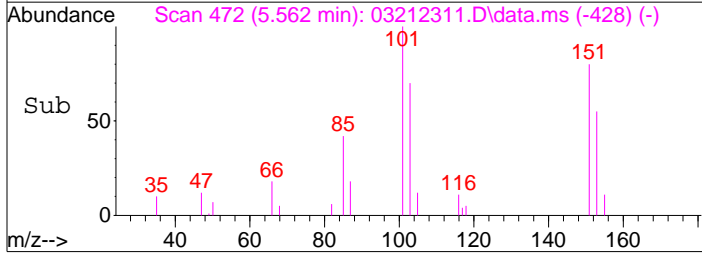
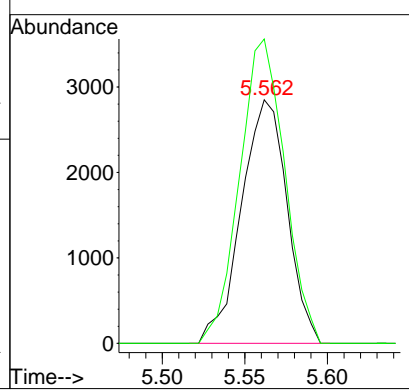
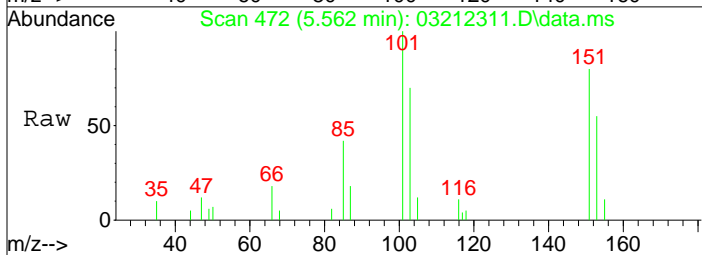
#19
 Methylene Chloride
 Concen: 0.25 ng
 RT: 5.34 min Scan# 433
 Delta R.T. -0.023 min
 Lab File: 03212311.D
 Acq: 21 Mar 2023 10:39

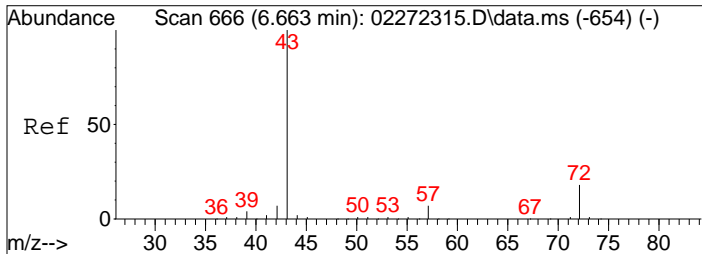
Tgt Ion	Resp	Lower	Upper
84	3923		
84	100		
49	162.1	136.0	186.0



#21
 Trichlorotrifluoroethane
 Concen: 0.32 ng
 RT: 5.56 min Scan# 472
 Delta R.T. -0.000 min
 Lab File: 03212311.D
 Acq: 21 Mar 2023 10:39

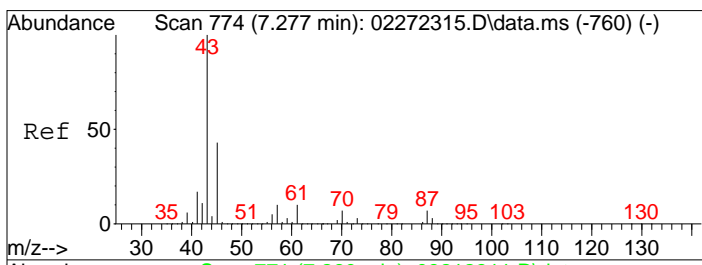
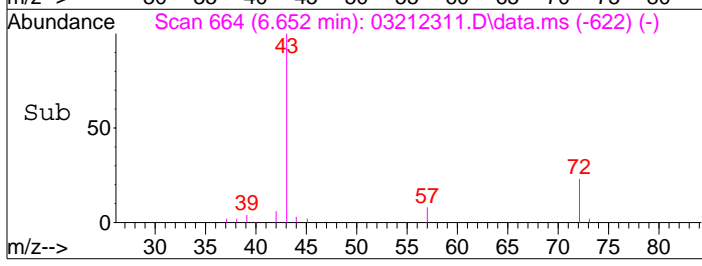
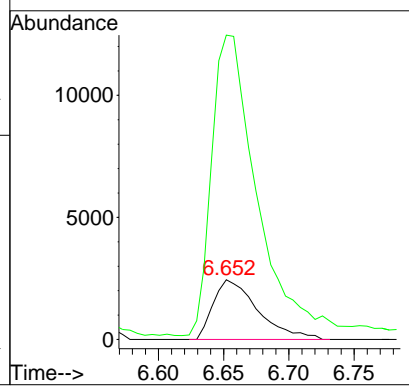
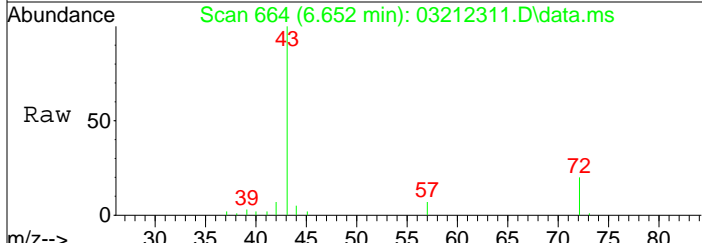
Tgt Ion	Resp	Lower	Upper
151	5485		
151	100		
101	123.3	88.2	128.2





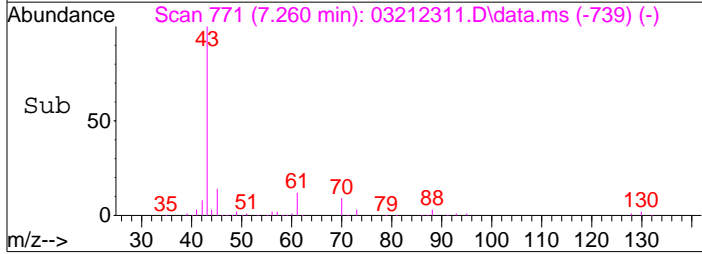
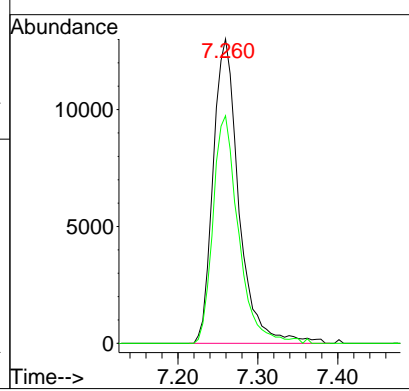
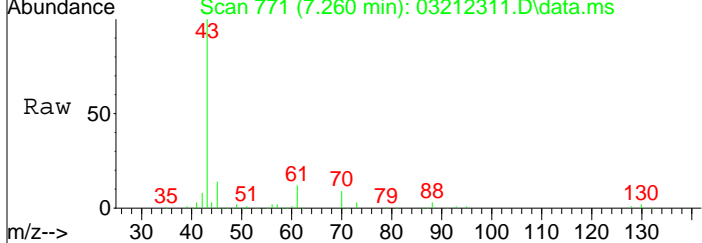
#27
 2-Butanone (MEK)
 Concen: 0.62 ng
 RT: 6.65 min Scan# 664
 Delta R.T. -0.011 min
 Lab File: 03212311.D
 Acq: 21 Mar 2023 10:39

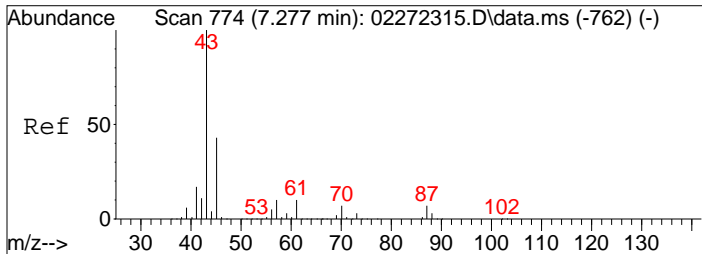
Tgt Ion:	Resp:	Lower	Upper
72	5837		
72	100		
43	523.2	536.0	576.0#



#30
 Ethyl Acetate
 Concen: 4.03 ng
 RT: 7.26 min Scan# 771
 Delta R.T. -0.017 min
 Lab File: 03212311.D
 Acq: 21 Mar 2023 10:39

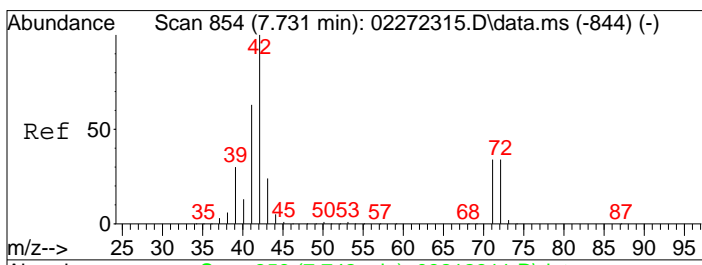
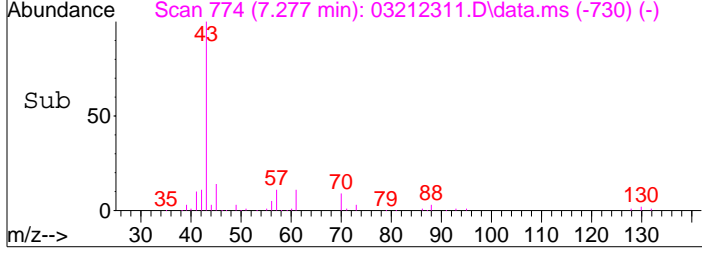
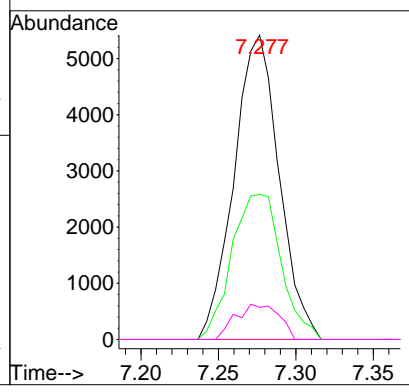
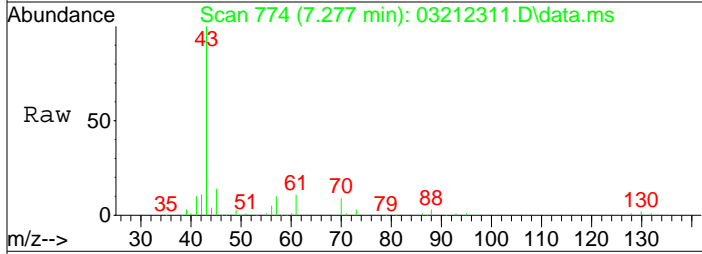
Tgt Ion:	Resp:	Lower	Upper
61	29147		
61	100		
70	74.2	55.8	95.8





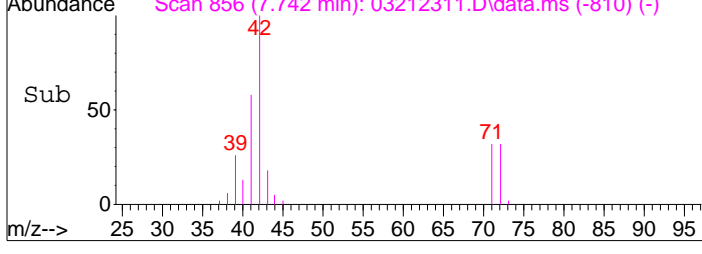
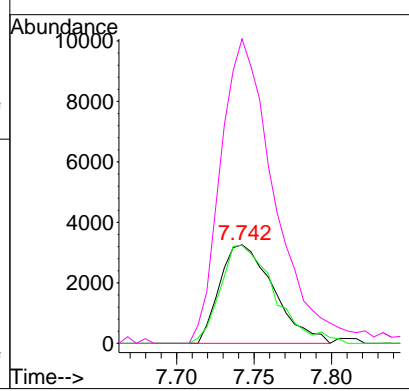
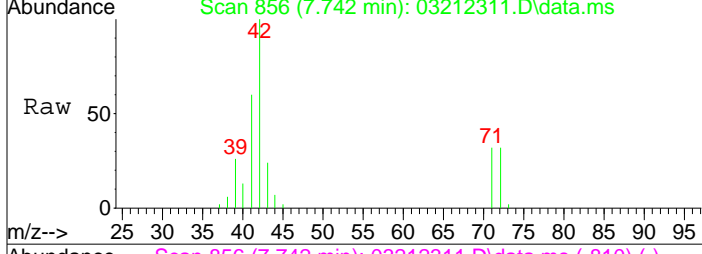
#31
 n-Hexane
 Concen: 0.37 ng
 RT: 7.28 min Scan# 774
 Delta R.T. -0.000 min
 Lab File: 03212311.D
 Acq: 21 Mar 2023 10:39

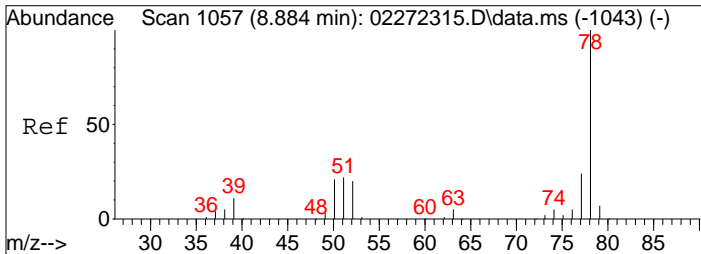
Tgt Ion:	Resp:	Lower	Upper
57	10966		
57	100		
56	52.2	43.3	64.9
86	11.1	10.2	15.2



#34
 Tetrahydrofuran (THF)
 Concen: 0.84 ng
 RT: 7.74 min Scan# 856
 Delta R.T. 0.011 min
 Lab File: 03212311.D
 Acq: 21 Mar 2023 10:39

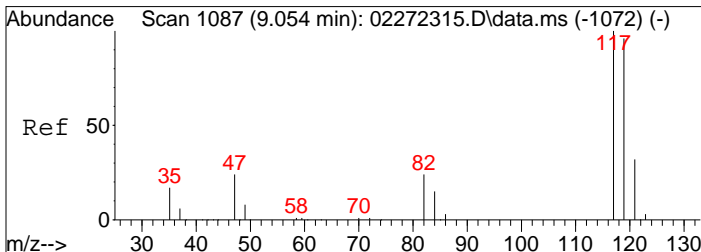
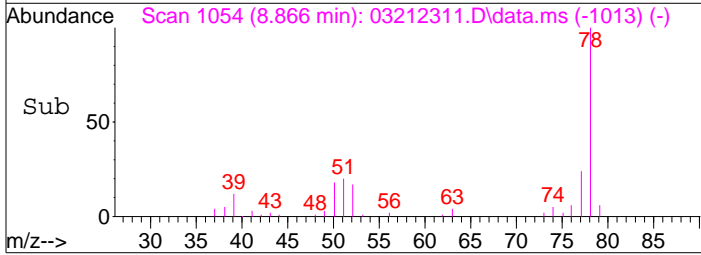
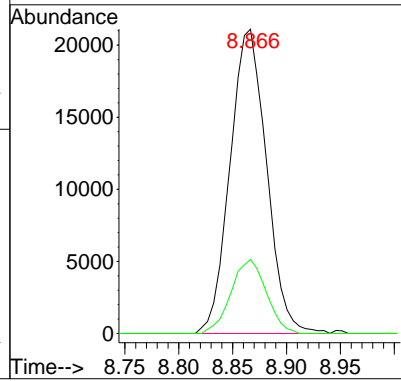
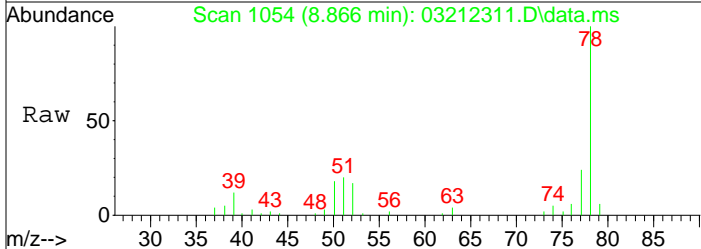
Tgt Ion:	Resp:	Lower	Upper
72	7881		
72	100		
71	100.1	81.3	121.3
42	319.8	293.7	333.7





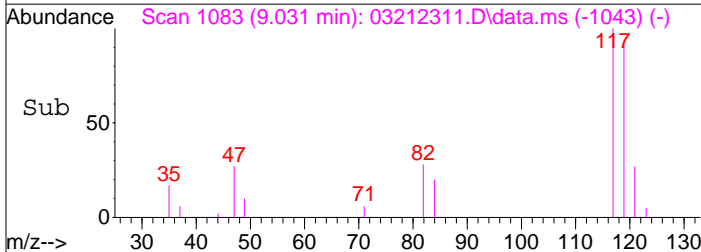
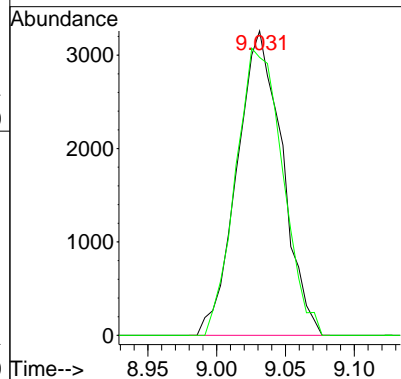
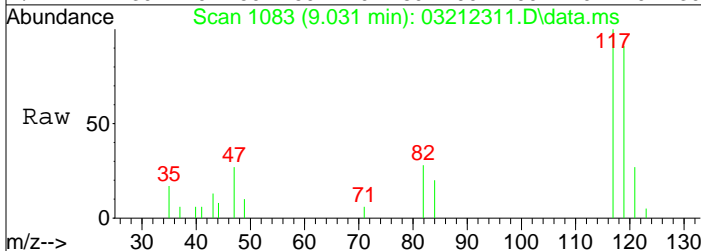
#41
Benzene
Concen: 0.78 ng
RT: 8.87 min Scan# 1054
Delta R.T. -0.017 min
Lab File: 03212311.D
Acq: 21 Mar 2023 10:39

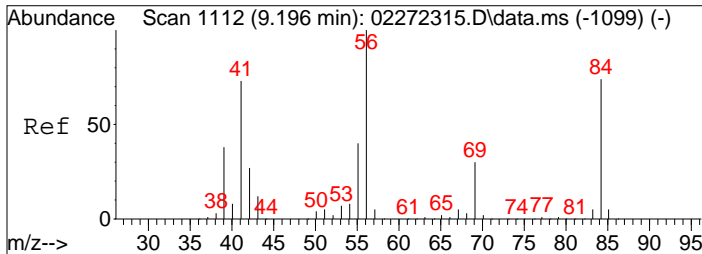
Tgt Ion: 78 Resp: 49754
Ion Ratio Lower Upper
78 100
77 23.5 4.0 44.0



#42
Carbon Tetrachloride
Concen: 0.27 ng
RT: 9.03 min Scan# 1083
Delta R.T. -0.023 min
Lab File: 03212311.D
Acq: 21 Mar 2023 10:39

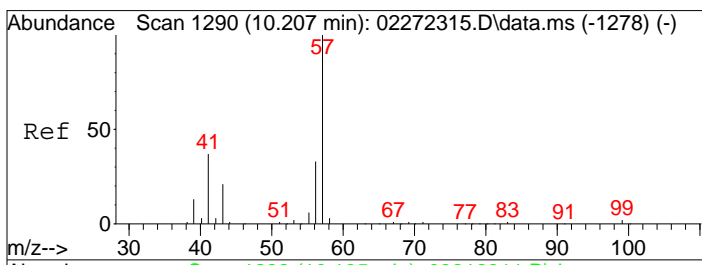
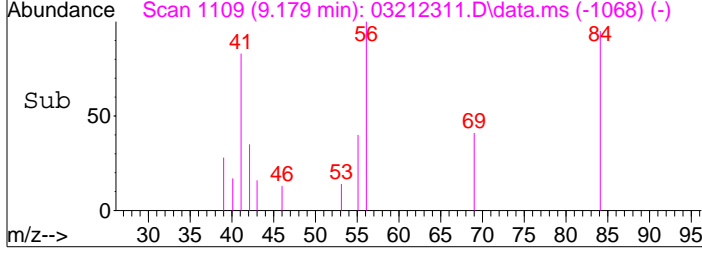
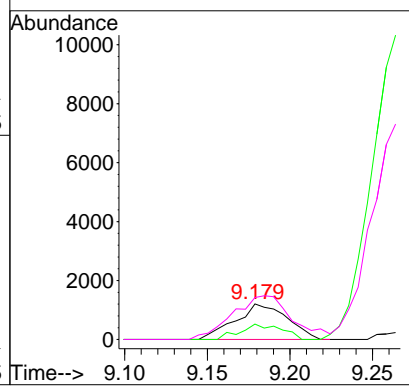
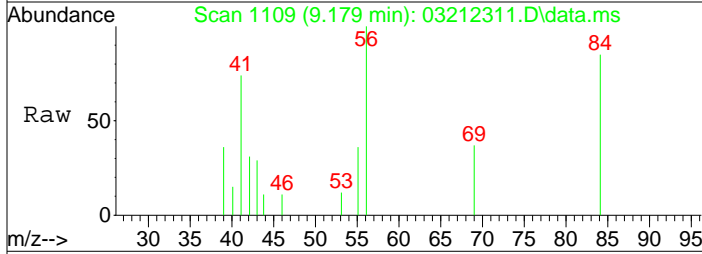
Tgt Ion: 117 Resp: 7440
Ion Ratio Lower Upper
117 100
119 98.0 75.5 115.5





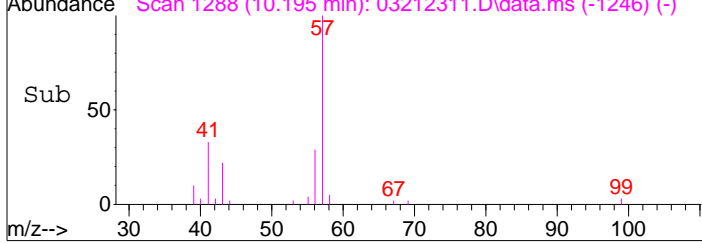
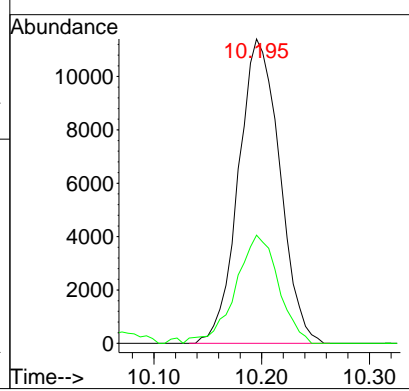
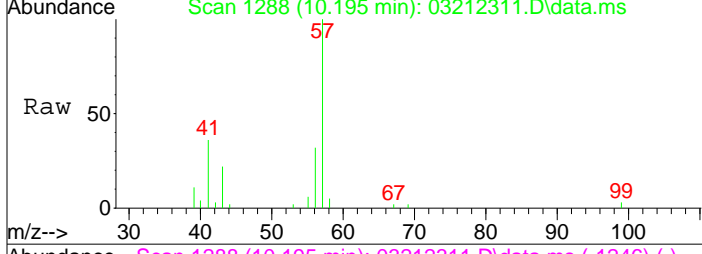
#43
 Cyclohexane
 Concen: 0.11 ng
 RT: 9.18 min Scan# 1109
 Delta R.T. -0.017 min
 Lab File: 03212311.D
 Acq: 21 Mar 2023 10:39

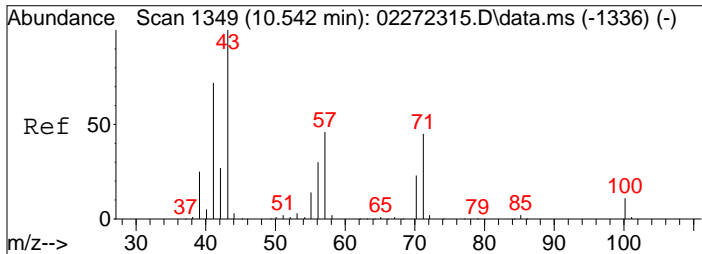
Tgt Ion:	84	Resp:	2649
Ion Ratio	Lower	Upper	
84	100		
69	34.3	20.6	60.6
56	140.7	116.1	156.1



#49
 2,2,4-Trimethylpentane (Isooctane)
 Concen: 0.39 ng
 RT: 10.20 min Scan# 1288
 Delta R.T. -0.011 min
 Lab File: 03212311.D
 Acq: 21 Mar 2023 10:39

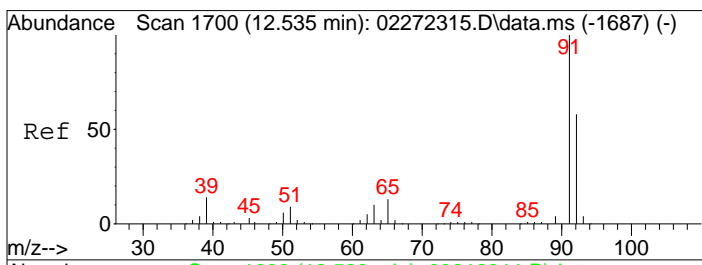
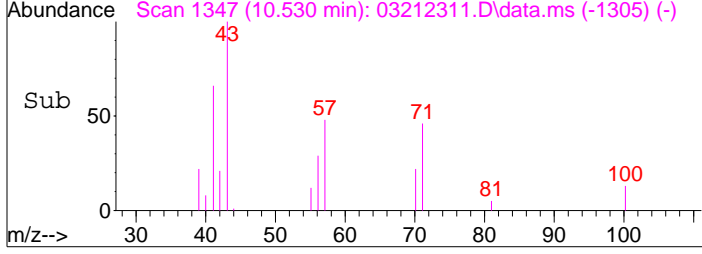
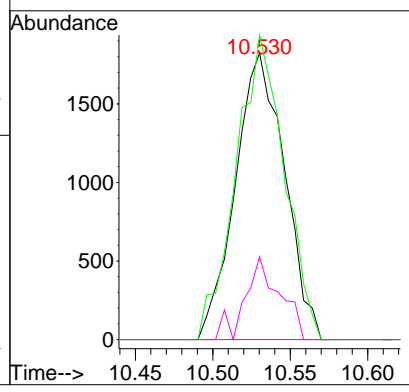
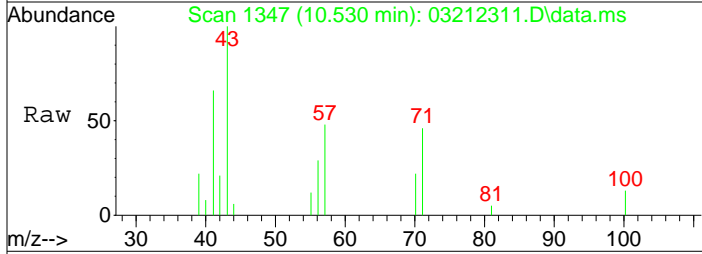
Tgt Ion:	57	Resp:	30306
Ion Ratio	Lower	Upper	
57	100		
41	37.0	17.1	57.1





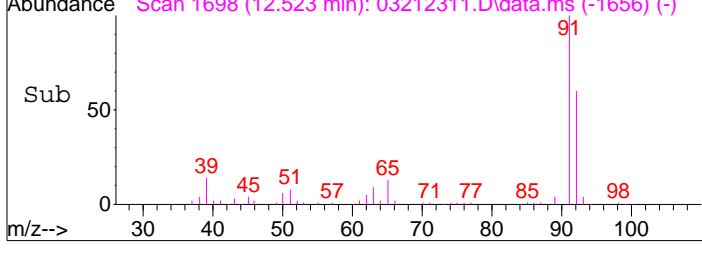
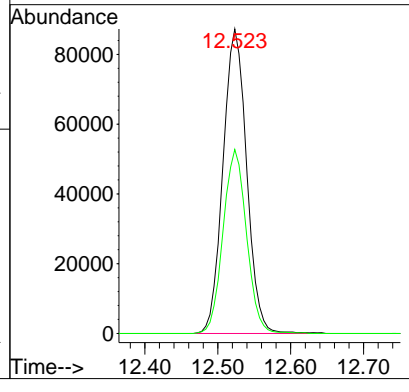
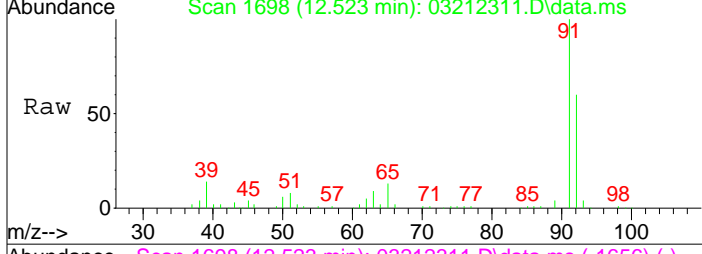
#51
 n-Heptane
 Concen: 0.25 ng
 RT: 10.53 min Scan# 1347
 Delta R.T. -0.011 min
 Lab File: 03212311.D
 Acq: 21 Mar 2023 10:39

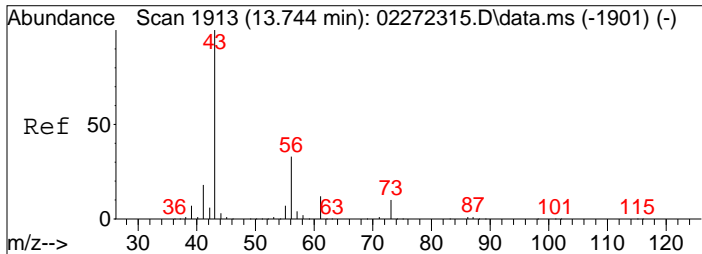
Tgt Ion	Resp	Lower	Upper
71	100		
57	104.4	84.6	124.6
100	20.3	5.8	45.8



#58
 Toluene
 Concen: 2.91 ng
 RT: 12.52 min Scan# 1698
 Delta R.T. -0.011 min
 Lab File: 03212311.D
 Acq: 21 Mar 2023 10:39

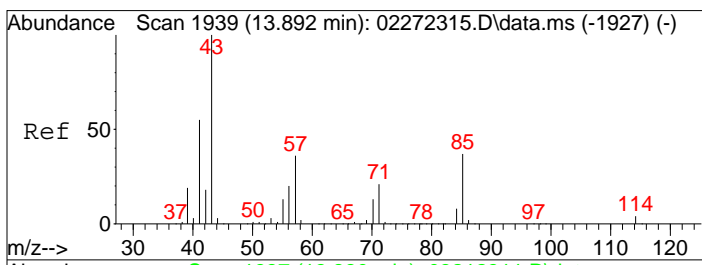
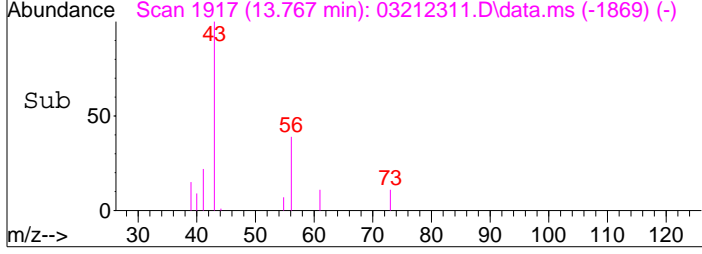
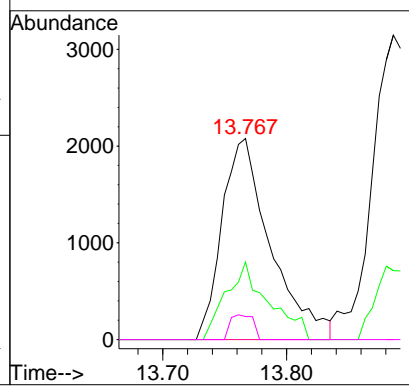
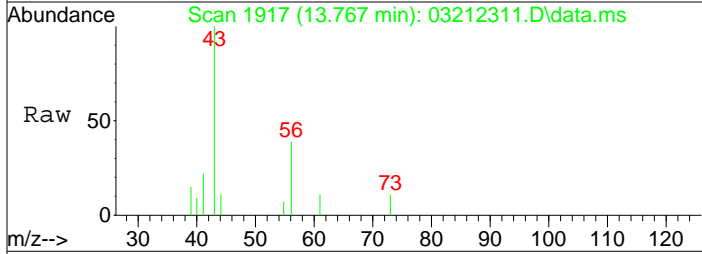
Tgt Ion	Resp	Lower	Upper
91	100		
92	59.9	37.6	77.6





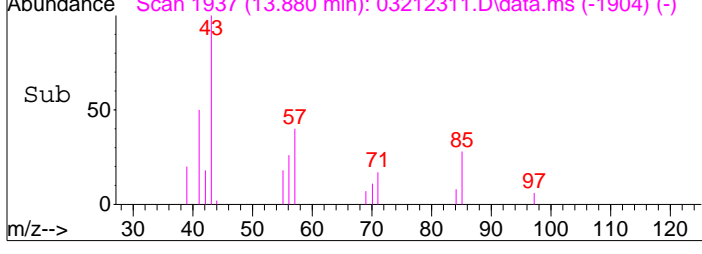
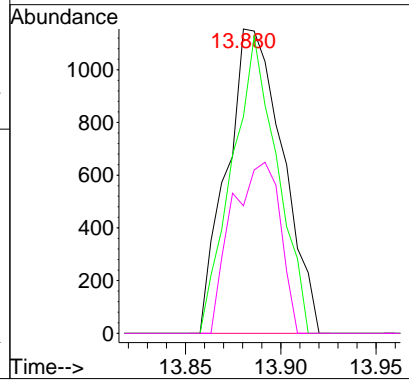
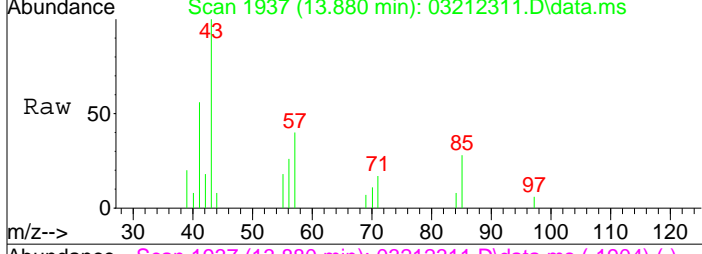
#62
 n-Butyl Acetate
 Concen: 0.12 ng
 RT: 13.77 min Scan# 1917
 Delta R.T. 0.023 min
 Lab File: 03212311.D
 Acq: 21 Mar 2023 10:39

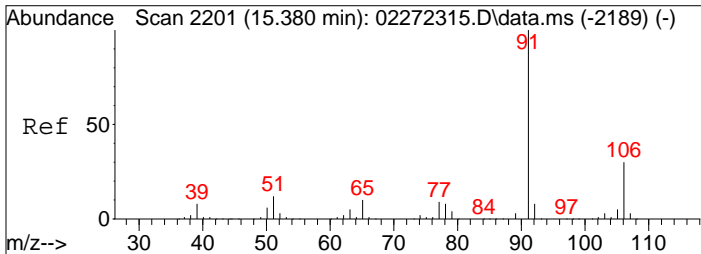
Tgt Ion:	Resp:	Lower	Upper
43	100		
56	33.6	13.1	53.1
73	5.8	0.0	29.9



#63
 n-Octane
 Concen: 0.16 ng
 RT: 13.88 min Scan# 1937
 Delta R.T. -0.011 min
 Lab File: 03212311.D
 Acq: 21 Mar 2023 10:39

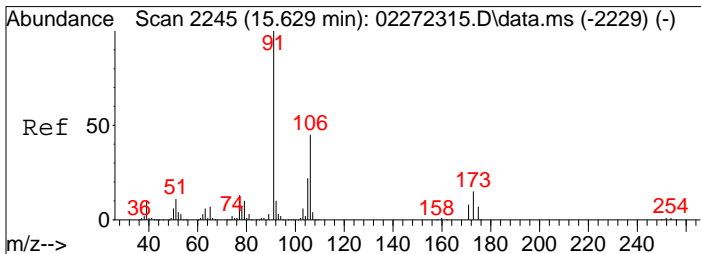
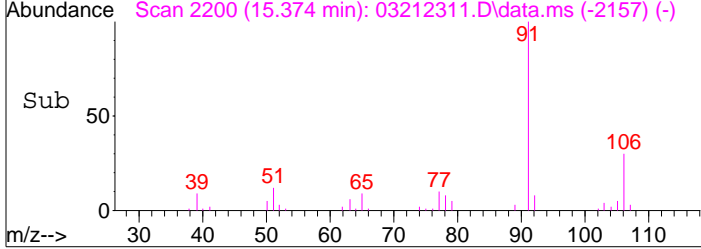
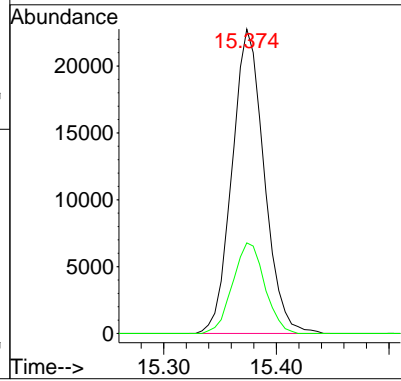
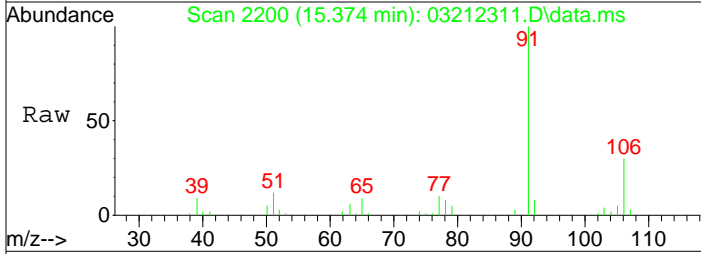
Tgt Ion:	Resp:	Lower	Upper
57	100		
85	79.2	82.4	123.6#
71	48.7	47.8	71.6





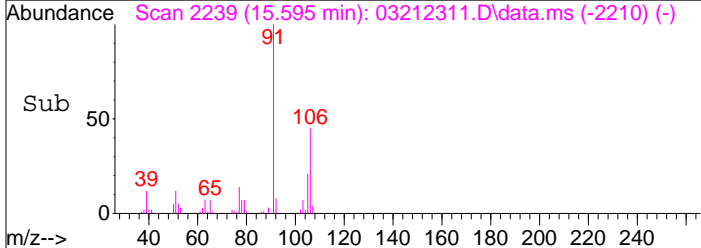
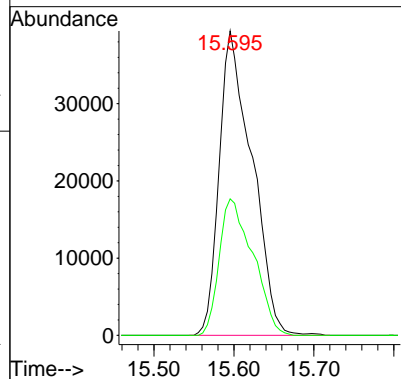
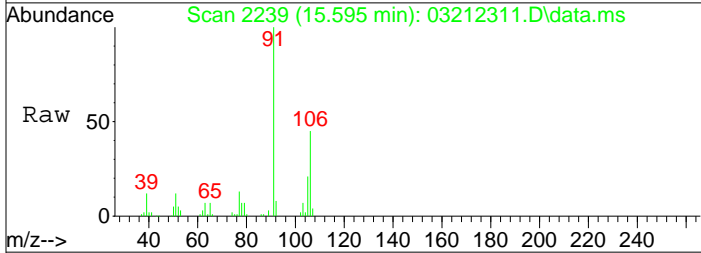
#66
 Ethylbenzene
 Concen: 0.58 ng
 RT: 15.37 min Scan# 2200
 Delta R.T. -0.006 min
 Lab File: 03212311.D
 Acq: 21 Mar 2023 10:39

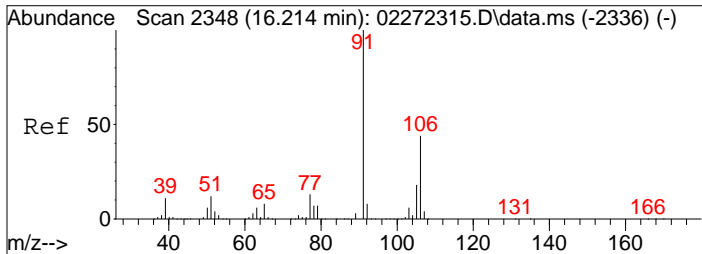
Tgt Ion	Resp	Lower	Upper
91	100		
106	29.7	10.3	50.3



#67
 m- & p-Xylenes
 Concen: 1.76 ng
 RT: 15.60 min Scan# 2239
 Delta R.T. -0.034 min
 Lab File: 03212311.D
 Acq: 21 Mar 2023 10:39

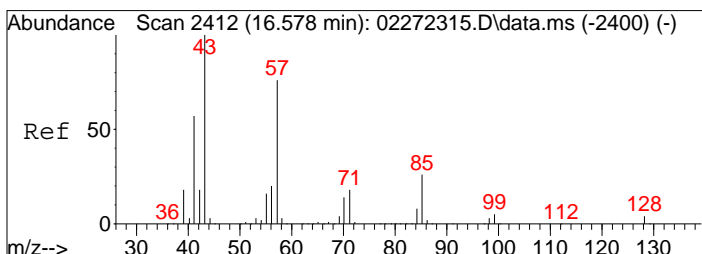
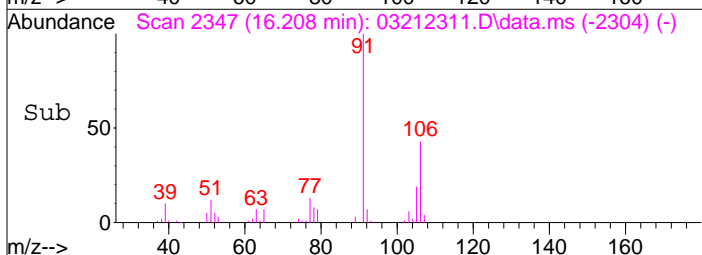
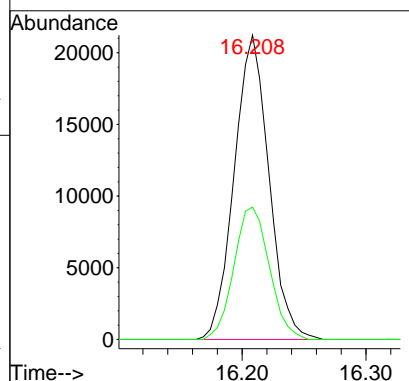
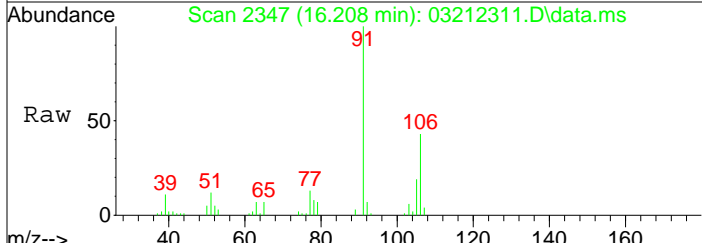
Tgt Ion	Resp	Lower	Upper
91	100		
106	46.3	25.0	65.0





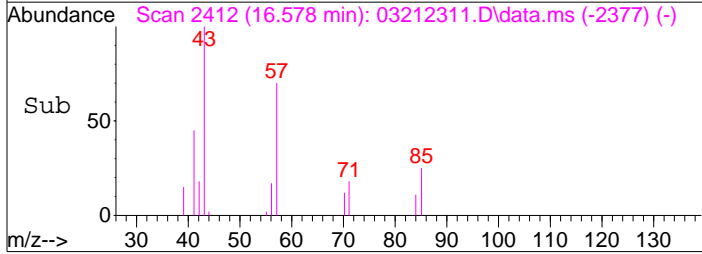
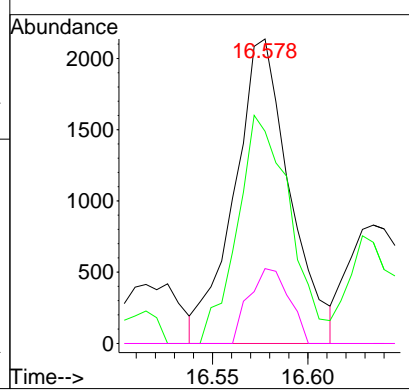
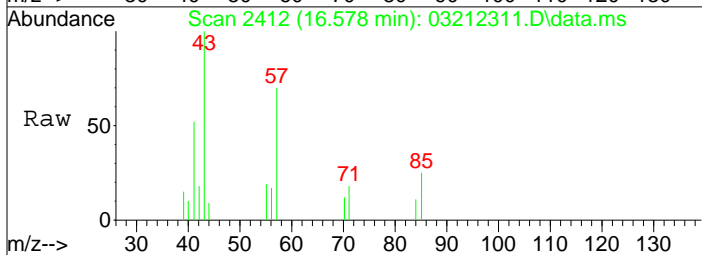
#70
 o-Xylene
 Concen: 0.66 ng
 RT: 16.21 min Scan# 2347
 Delta R.T. -0.006 min
 Lab File: 03212311.D
 Acq: 21 Mar 2023 10:39

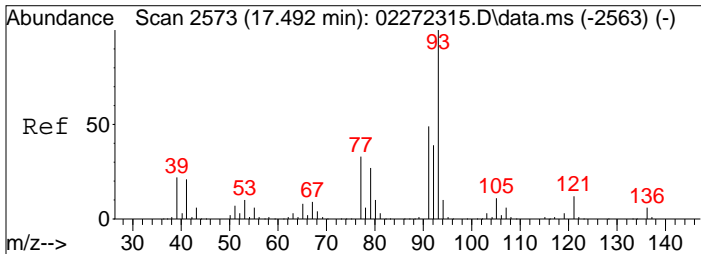
Tgt Ion	Resp	Lower	Upper
91	41191	100	100
106	44.5	24.0	64.0



#71
 n-Nonane
 Concen: 0.11 ng
 RT: 16.58 min Scan# 2412
 Delta R.T. -0.000 min
 Lab File: 03212311.D
 Acq: 21 Mar 2023 10:39

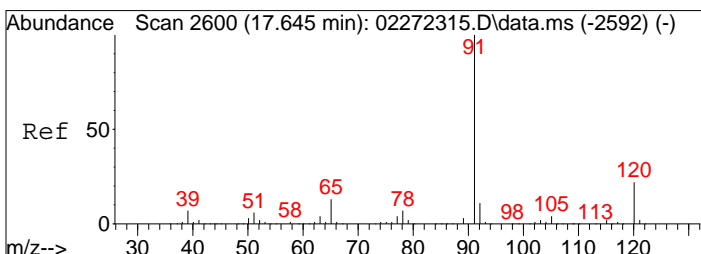
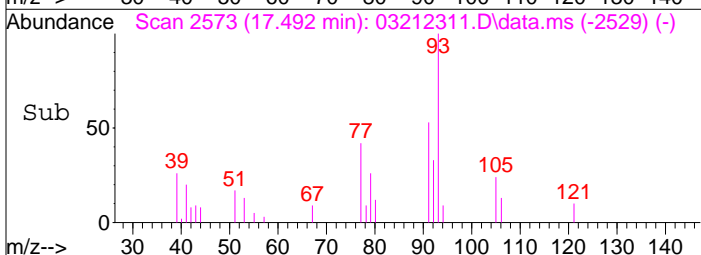
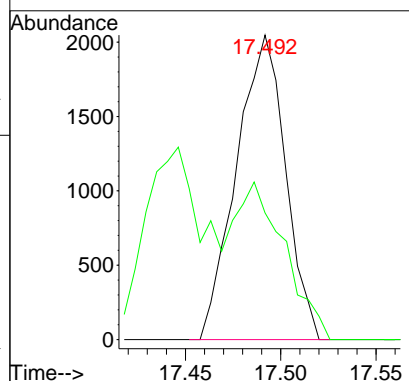
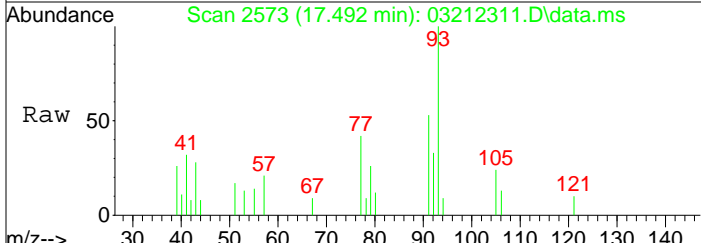
Tgt Ion	Resp	Lower	Upper
43	4312	100	100
57	71.9	56.2	96.2
85	17.8	6.1	46.1





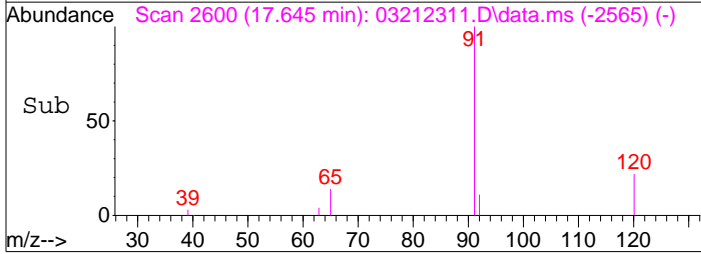
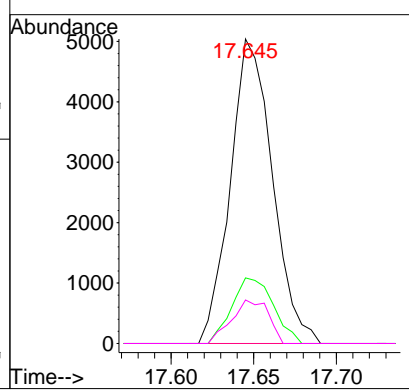
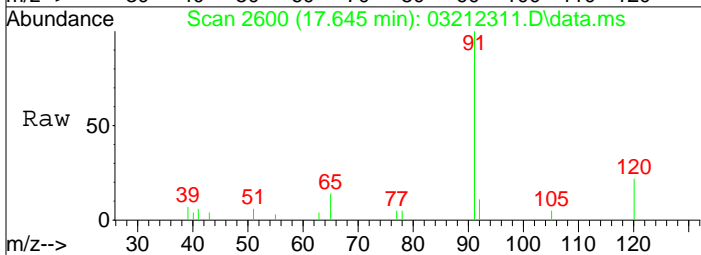
#75
 alpha-Pinene
 Concen: 0.11 ng
 RT: 17.49 min Scan# 2573
 Delta R.T. -0.000 min
 Lab File: 03212311.D
 Acq: 21 Mar 2023 10:39

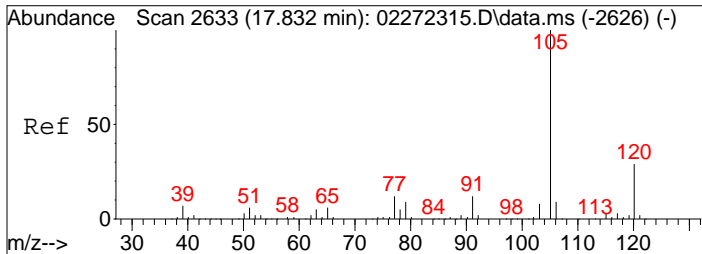
Tgt Ion	Resp	Lower	Upper
93	3661	100	
77	53.4	14.2	54.2



#76
 n-Propylbenzene
 Concen: 0.10 ng
 RT: 17.65 min Scan# 2600
 Delta R.T. -0.000 min
 Lab File: 03212311.D
 Acq: 21 Mar 2023 10:39

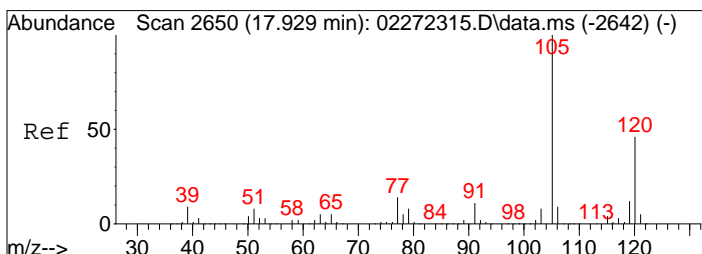
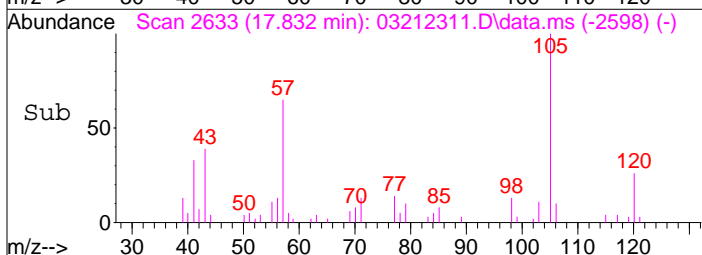
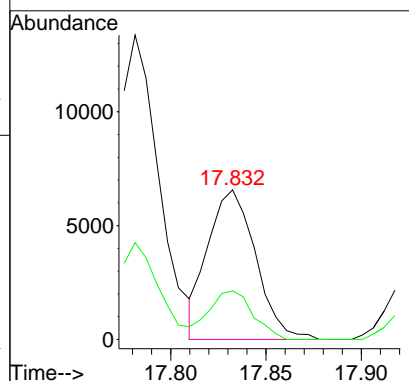
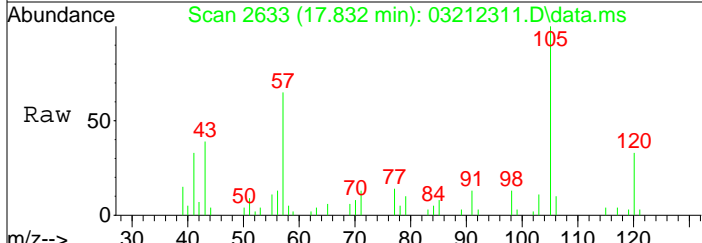
Tgt Ion	Resp	Lower	Upper
91	8924	100	
120	21.2	2.0	42.0
65	12.5	0.0	32.3





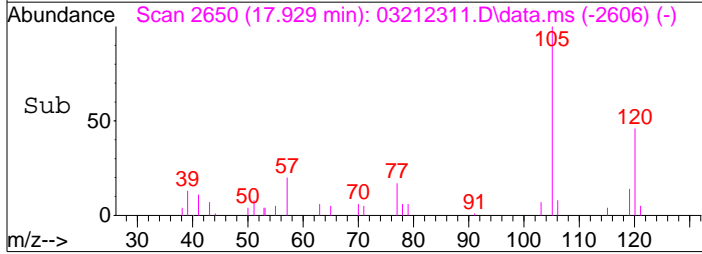
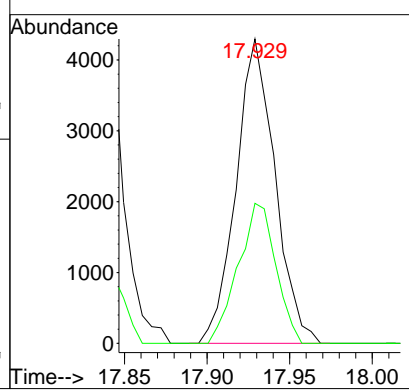
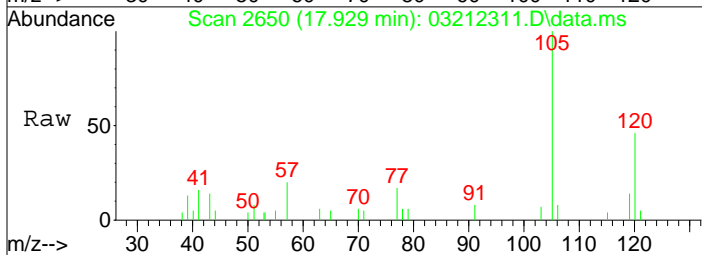
#78
 4-Ethyltoluene
 Concen: 0.16 ng
 RT: 17.83 min Scan# 2633
 Delta R.T. -0.000 min
 Lab File: 03212311.D
 Acq: 21 Mar 2023 10:39

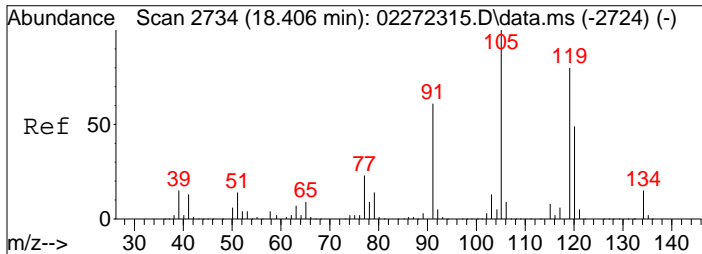
Tgt Ion	Resp	Lower	Upper
105	11451	100	100
120	29.9	8.5	48.5



#79
 1,3,5-Trimethylbenzene
 Concen: 0.11 ng
 RT: 17.93 min Scan# 2650
 Delta R.T. -0.000 min
 Lab File: 03212311.D
 Acq: 21 Mar 2023 10:39

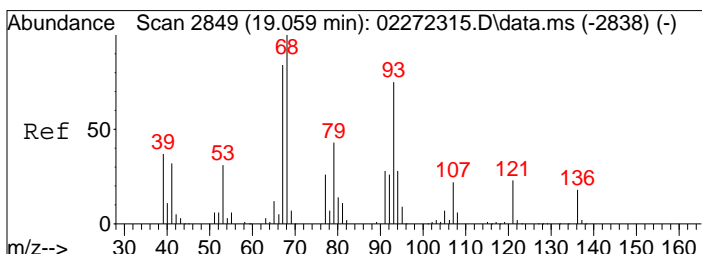
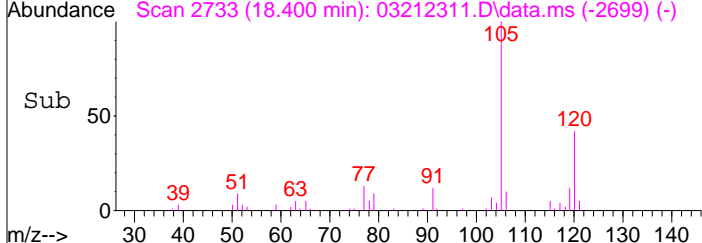
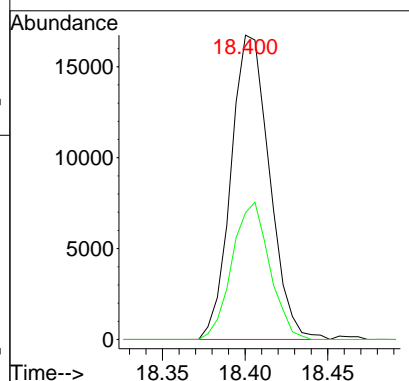
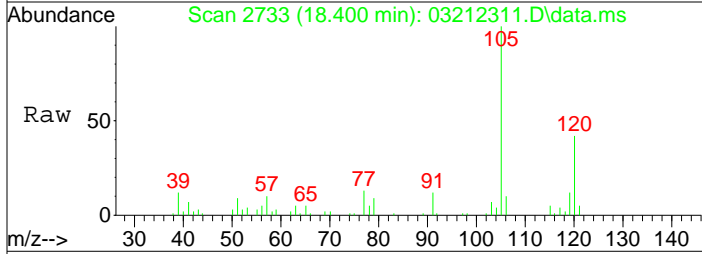
Tgt Ion	Resp	Lower	Upper
105	7051	100	100
120	44.3	25.5	65.5





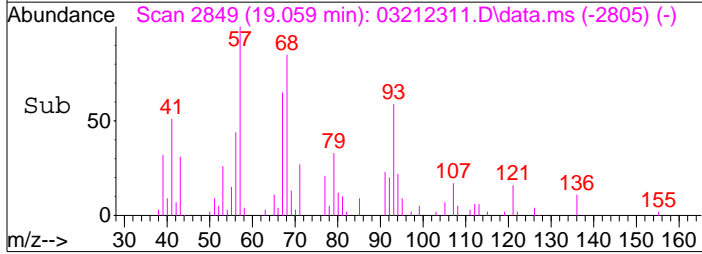
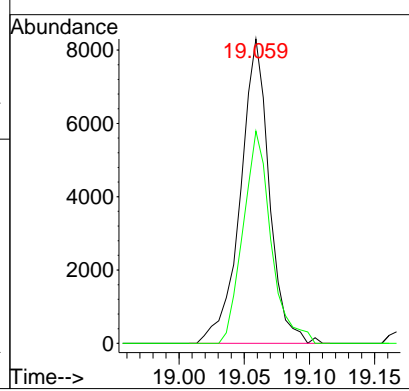
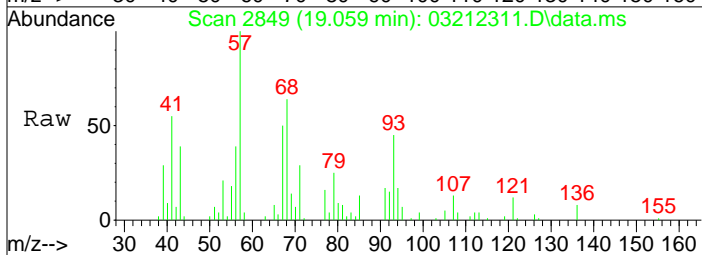
#82
 1,2,4-Trimethylbenzene
 Concen: 0.41 ng
 RT: 18.40 min Scan# 2733
 Delta R.T. -0.006 min
 Lab File: 03212311.D
 Acq: 21 Mar 2023 10:39

Tgt Ion	Resp	Lower	Upper
105	27151		
105	100		
120	43.9	30.5	70.5



#91
 d-Limonene
 Concen: 0.57 ng
 RT: 19.06 min Scan# 2849
 Delta R.T. -0.000 min
 Lab File: 03212311.D
 Acq: 21 Mar 2023 10:39

Tgt Ion	Resp	Lower	Upper
68	12796		
68	100		
93	67.7	55.7	95.7



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: New York State DEC
Client Sample ID: Building-1-SS1-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01533

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.02 Final Pressure (psig): 3.56

Canister Dilution Factor: 1.33

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.70	ND	0.41	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	0.70	0.43	0.14	
74-87-3	Chloromethane	ND	0.28	ND	0.14	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.69	ND	0.099	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.057	
106-99-0	1,3-Butadiene	ND	0.28	ND	0.13	
74-83-9	Bromomethane	ND	0.28	ND	0.072	
75-00-3	Chloroethane	ND	0.28	ND	0.11	
64-17-5	Ethanol	ND	6.7	ND	3.5	
75-05-8	Acetonitrile	ND	1.3	ND	0.79	
107-02-8	Acrolein	ND	1.3	ND	0.58	
67-64-1	Acetone	9.7	7.0	4.1	3.0	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	0.69	0.18	0.12	
67-63-0	2-Propanol (Isopropyl Alcohol)	4.0	1.4	1.6	0.55	
107-13-1	Acrylonitrile	ND	1.3	ND	0.61	
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.037	
75-09-2	Methylene Chloride	ND	0.70	ND	0.20	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.70	ND	0.23	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.72	ND	0.094	
75-15-0	Carbon Disulfide	ND	1.4	ND	0.46	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.037	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.036	
1634-04-4	Methyl tert-Butyl Ether	ND	0.72	ND	0.20	
108-05-4	Vinyl Acetate	ND	6.7	ND	1.9	
78-93-3	2-Butanone (MEK)	2.8	1.4	0.96	0.47	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3

Client: New York State DEC
Client Sample ID: Building-1-SS1-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01533

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.02 Final Pressure (psig): 3.56

Canister Dilution Factor: 1.33

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	0.48	0.15	0.12	0.037	
141-78-6	Ethyl Acetate	13	2.8	3.5	0.78	
110-54-3	n-Hexane	ND	0.70	ND	0.20	
67-66-3	Chloroform	0.90	0.15	0.18	0.030	
109-99-9	Tetrahydrofuran (THF)	2.7	0.67	0.91	0.23	
107-06-2	1,2-Dichloroethane	ND	0.15	ND	0.036	
71-55-6	1,1,1-Trichloroethane	0.18	0.15	0.032	0.027	
71-43-2	Benzene	0.30	0.15	0.092	0.046	
56-23-5	Carbon Tetrachloride	0.49	0.15	0.077	0.023	
110-82-7	Cyclohexane	ND	1.4	ND	0.41	
78-87-5	1,2-Dichloropropane	ND	0.15	ND	0.032	
75-27-4	Bromodichloromethane	ND	0.15	ND	0.022	
79-01-6	Trichloroethene	2.8	0.15	0.52	0.027	
123-91-1	1,4-Dioxane	ND	0.70	ND	0.20	
80-62-6	Methyl Methacrylate	ND	1.5	ND	0.36	
142-82-5	n-Heptane	ND	0.70	ND	0.17	
10061-01-5	cis-1,3-Dichloropropene	ND	0.72	ND	0.16	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.36	
10061-02-6	trans-1,3-Dichloropropene	ND	0.68	ND	0.15	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.027	
108-88-3	Toluene	3.7	0.70	0.97	0.19	
591-78-6	2-Hexanone	ND	1.5	ND	0.36	
124-48-1	Dibromochloromethane	ND	0.15	ND	0.017	
106-93-4	1,2-Dibromoethane	ND	0.15	ND	0.019	
123-86-4	n-Butyl Acetate	ND	1.3	ND	0.28	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3 of 3

Client: New York State DEC
Client Sample ID: Building-1-SS1-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01533

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.02 Final Pressure (psig): 3.56

Canister Dilution Factor: 1.33

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.72	ND	0.15	
127-18-4	Tetrachloroethene	110	0.15	17	0.022	
108-90-7	Chlorobenzene	ND	0.70	ND	0.15	
100-41-4	Ethylbenzene	0.76	0.70	0.17	0.16	
179601-23-1	m,p-Xylenes	2.8	1.5	0.65	0.34	
75-25-2	Bromoform	ND	0.72	ND	0.069	
100-42-5	Styrene	ND	0.70	ND	0.17	
95-47-6	o-Xylene	1.0	0.70	0.24	0.16	
111-84-2	n-Nonane	ND	0.70	ND	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.021	
98-82-8	Cumene	ND	0.72	ND	0.15	
80-56-8	alpha-Pinene	ND	1.5	ND	0.26	
103-65-1	n-Propylbenzene	ND	0.72	ND	0.15	
622-96-8	4-Ethyltoluene	ND	0.73	ND	0.15	
108-67-8	1,3,5-Trimethylbenzene	ND	0.70	ND	0.14	
95-63-6	1,2,4-Trimethylbenzene	ND	0.70	ND	0.14	
100-44-7	Benzyl Chloride	ND	2.8	ND	0.54	
541-73-1	1,3-Dichlorobenzene	ND	0.70	ND	0.12	
106-46-7	1,4-Dichlorobenzene	ND	0.70	ND	0.12	
95-50-1	1,2-Dichlorobenzene	ND	0.72	ND	0.12	
5989-27-5	d-Limonene	ND	1.5	ND	0.26	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.5	ND	0.15	
120-82-1	1,2,4-Trichlorobenzene	ND	1.5	ND	0.20	
91-20-3	Naphthalene	ND	0.73	ND	0.14	
87-68-3	Hexachlorobutadiene	ND	0.70	ND	0.066	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Data File : I:\MS09\DATA\2023 03\21\03212312.D
 Acq On : 21 Mar 2023 11:12
 Sample : P2301184-002 (1000ml)
 Misc : S35-02212305

Vial: 5
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 21 21:18:13 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

107 3/21/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	7.20	130	163416	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.27	114	732492	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.81	54	165093	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.97	65	348409	12.593	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery	=	100.72%	
57) Toluene-d8 (SS2)	12.39	98	865928	13.804	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	110.40%	
73) Bromofluorobenzene (SS3)	16.79	174	265123	10.364	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	82.88%	

Target Compounds

						Qvalue
2) Propene	3.27	42	7744	0.356	ng	# 72
3) Dichlorodifluoromethan...	3.34	85	59610	1.580	ng	99
4) Chloromethane	3.48	50	1113	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	3.59	135	1073	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	3.74	54	188	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	4.28	45	73751	4.756	ng	99
11) Acetonitrile	4.44	41	10281	0.261	ng	79
12) Acrolein	4.53	56	4822	0.467	ng	97
13) Acetone	4.62	58	85326	7.261	ng	# 88
14) Trichlorofluoromethane	4.73	101	28981	0.770	ng	97
15) 2-Propanol (Isopropanol)	4.83	45	137445	2.996	ng	100
16) Acrylonitrile	4.94	53	51	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	5.33	84	724	N.D.		
20) 3-Chloro-1-propene (Al...	5.44	41	270	N.D.		
21) Trichlorotrifluoroethane	5.56	151	4660	0.274	ng	# 72
22) Carbon Disulfide	0.00	76	0	N.D.	d	
23) trans-1,2-Dichloroethene	6.12	61	2703	0.107	ng	96
24) 1,1-Dichloroethane	6.28	63	179	N.D.		
25) Methyl tert-Butyl Ether	6.29	73	263	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	6.65	72	19910	2.126	ng	# 67
28) cis-1,2-Dichloroethene	7.05	61	9333	0.363	ng	95
29) Diisopropyl Ether	7.27	87	823	N.D.		
30) Ethyl Acetate	7.25	61	67768	9.410	ng	98
31) n-Hexane	7.27	57	5987	0.200	ng	# 95
32) Chloroform	7.33	83	22233	0.677	ng	97
34) Tetrahydrofuran (THF)	7.74	72	18830	2.007	ng	100
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.08	62	459	N.D.		
38) 1,1,1-Trichloroethane	8.36	97	4260	0.132	ng	95
39) Isopropyl Acetate	9.26	61	24415	No Calib	#	
40) 1-Butanol	8.79	56	19233	No Calib	#	
41) Benzene	8.87	78	13871	0.222	ng	100
42) Carbon Tetrachloride	9.03	117	10055	0.365	ng	97
43) Cyclohexane	9.18	84	1732	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	10.04	83	256	N.D.		
47) Trichloroethene	10.11	130	38451	2.098	ng	99
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	10.20	57	22900	0.300	ng	98
50) Methyl Methacrylate	10.38	100	158	N.D.		

Data File : I:\MS09\DATA\2023 03\21\03212312.D
 Acq On : 21 Mar 2023 11:12
 Sample : P2301184-002 (1000ml)
 Misc : S35-02212305

Vial: 5
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 21 21:18:13 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

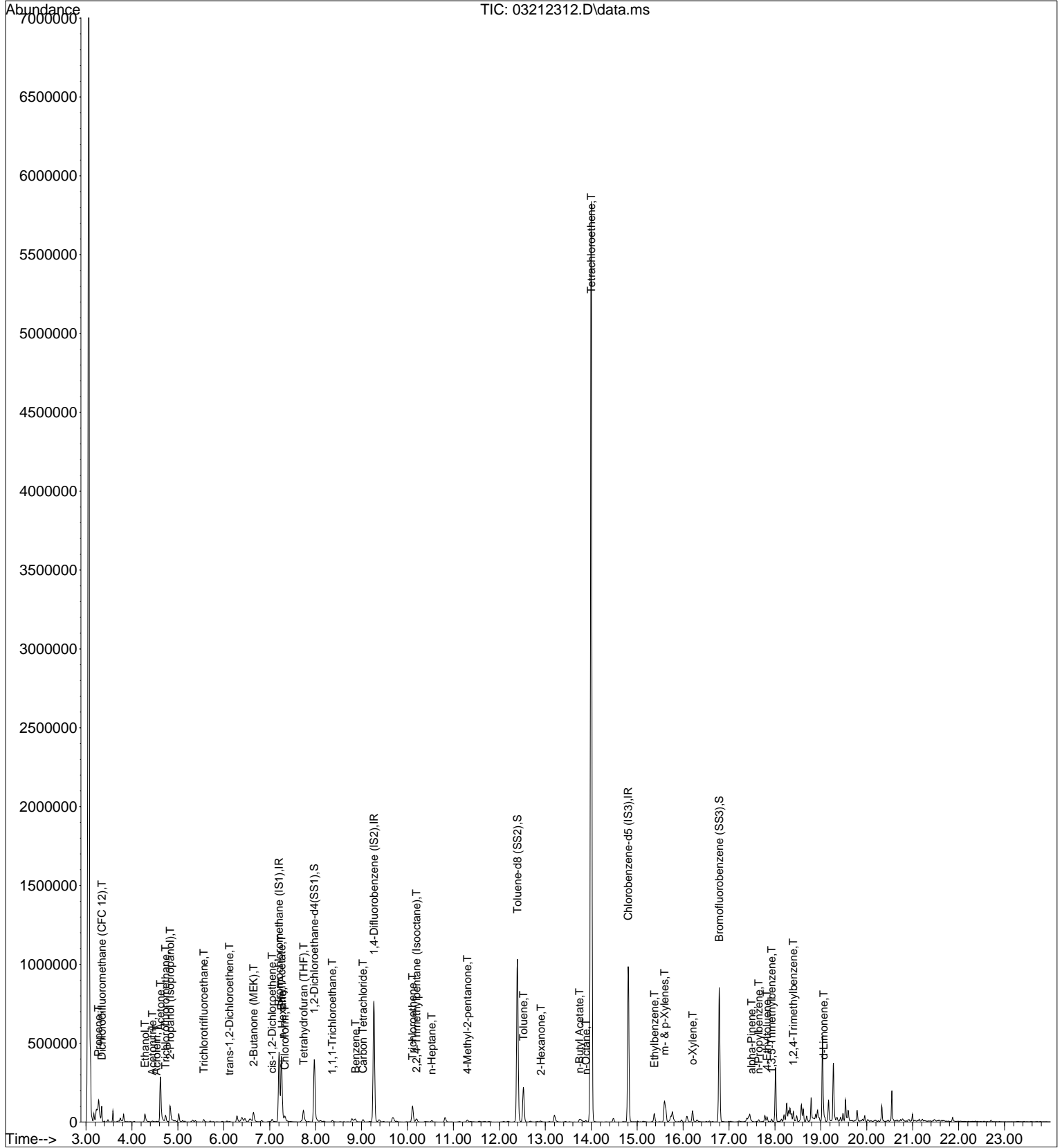
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
51) n-Heptane	10.52	71	2084	0.134	ng	94
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.30	58	3999	0.261	ng #	53
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.52	91	184313	2.760	ng	97
59) 2-Hexanone	12.90	43	6319	0.150	ng	91
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.74	43	22475	0.481	ng	83
63) n-Octane	13.89	57	1436	0.099	ng #	75
64) Tetrachloroethene	14.00	166	1980978	86.029	ng	99
65) Chlorobenzene	14.87	112	356	N.D.		
66) Ethylbenzene	15.37	91	43759	0.571	ng	100
67) m- & p-Xylenes	15.60	91	133405	2.122	ng	97
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.07	104	3108	N.D.		
70) o-Xylene	16.21	91	48122	0.777	ng	97
71) n-Nonane	16.58	43	2660	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	17.00	105	3099	N.D.		
75) alpha-Pinene	17.49	93	3493	0.109	ng #	1
76) n-Propylbenzene	17.64	91	10943	0.120	ng	98
77) 3-Ethyltoluene	17.00	105	3099	No Calib		
78) 4-Ethyltoluene	17.83	105	12101	0.168	ng	99
79) 1,3,5-Trimethylbenzene	17.93	105	7846	0.121	ng	98
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.00	105	3099	No Calib		
82) 1,2,4-Trimethylbenzene	18.40	105	32121	0.488	ng	89
83) n-Decane	17.08	58	119	No Calib	#	
84) Benzyl Chloride	18.54	91	355	N.D.		
85) 1,3-Dichlorobenzene	18.55	146	422	N.D.		
86) 1,4-Dichlorobenzene	18.63	146	239	N.D.		
87) sec-Butylbenzene	18.71	105	989	N.D.		
88) 4-Isopropyltoluene (p-...	18.90	119	4598	N.D.		
89) 1,2,3-Trimethylbenzene	17.00	105	3099	No Calib		
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	19.06	68	13296	0.603	ng	92
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.08	58	1780	No Calib	#	
94) 1,2,4-Trichlorobenzene	20.82	180	910	N.D.		
95) Naphthalene	20.92	128	3378	N.D.		
96) n-Dodecane	19.04	58	13602	No Calib	#	
97) Hexachlorobutadiene	21.28	225	433	N.D.		
98) Cyclohexanone	15.33	55	1531	No Calib	#	
99) tert-Butylbenzene	18.47	119	816	N.D.		
100) n-Butylbenzene	19.36	91	2665	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\21\03212312.D
Acq On : 21 Mar 2023 11:12
Sample : P2301184-002 (1000ml)
Misc : S35-02212305

Vial: 5
Operator: WA/SR
Inst : MS09

Quant Time: Mar 21 21:18:13 2023
Quant Method : I:\MS09\METHODS\R9022723.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Feb 28 08:30:18 2023
Response via : Initial Calibration
DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2023 03\21\03212312.D
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 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

WA 3/21/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	7.20	130	163416	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.27	114	732492	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.81	54	165093	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.97	65	348409	12.593	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery	=	100.72%	
57) Toluene-d8 (SS2)	12.39	98	865928	13.804	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	110.40%	
73) Bromofluorobenzene (SS3)	16.79	174	265123	10.364	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	82.88%	

Target Compounds

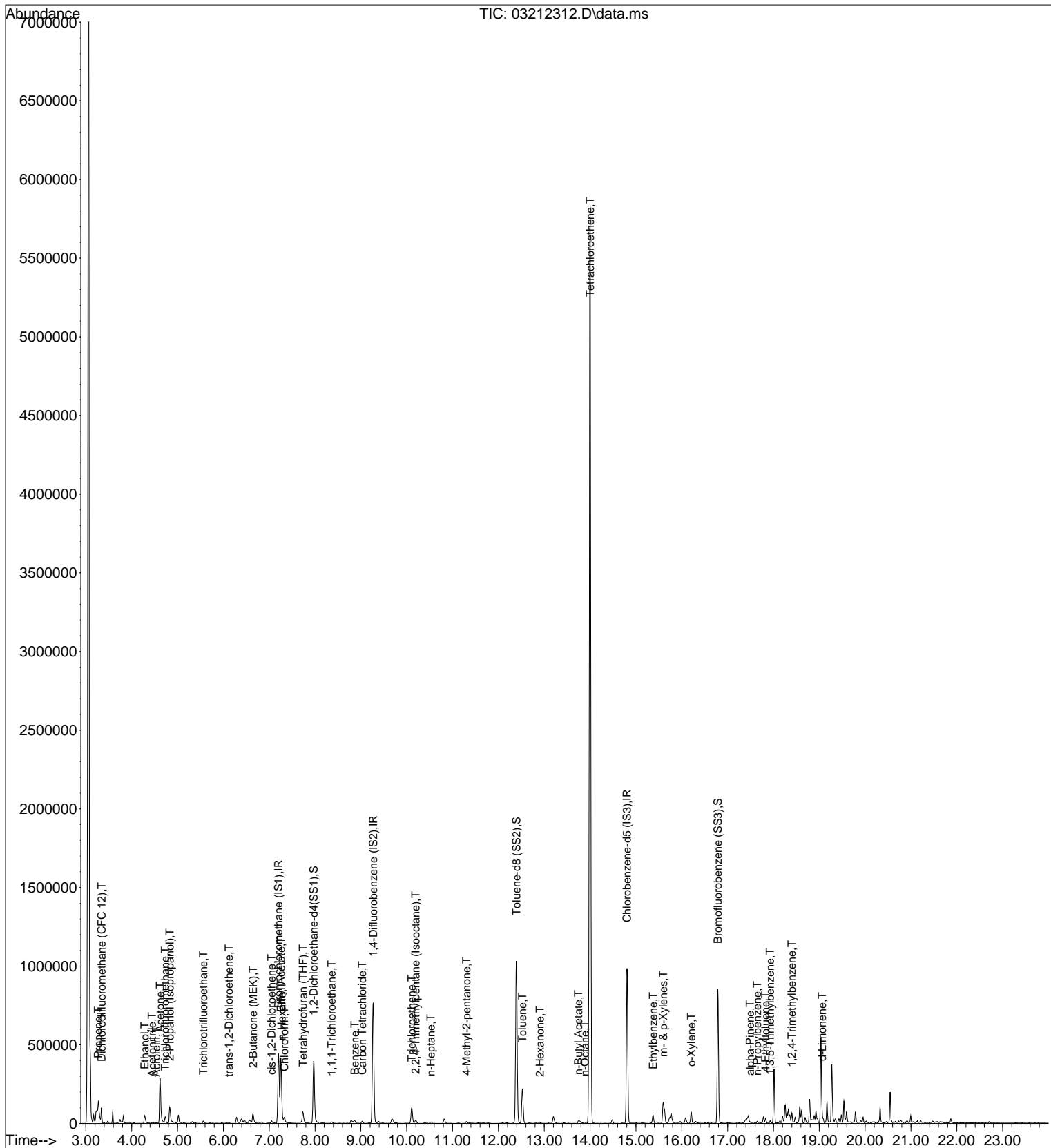
	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.27	42	7744	0.356	ng	# 72
3) Dichlorodifluoromethan...	3.34	85	59610	1.580	ng	99
10) Ethanol	4.28	45	73751	4.756	ng	99
11) Acetonitrile	4.44	41	10281	0.261	ng	79
12) Acrolein	4.53	56	4822	0.467	ng	97
13) Acetone	4.62	58	85326	7.261	ng	# 88
14) Trichlorofluoromethane	4.73	101	28981	0.770	ng	97
15) 2-Propanol (Isopropanol)	4.83	45	137445	2.996	ng	100
21) Trichlorotrifluoroethane	5.56	151	4660	0.274	ng	# 72
23) trans-1,2-Dichloroethene	6.12	61	2703	0.107	ng	96
27) 2-Butanone (MEK)	6.65	72	19910	2.126	ng	# 67
28) cis-1,2-Dichloroethene	7.05	61	9333	0.363	ng	95
30) Ethyl Acetate	7.25	61	67768	9.410	ng	98
31) n-Hexane	7.27	57	5987	0.200	ng	# 95
32) Chloroform	7.33	83	22233	0.677	ng	97
34) Tetrahydrofuran (THF)	7.74	72	18830	2.007	ng	100
38) 1,1,1-Trichloroethane	8.36	97	4260	0.132	ng	95
41) Benzene	8.87	78	13871	0.222	ng	100
42) Carbon Tetrachloride	9.03	117	10055	0.365	ng	97
47) Trichloroethene	10.11	130	38451	2.098	ng	99
49) 2,2,4-Trimethylpentane...	10.20	57	22900	0.300	ng	98
51) n-Heptane	10.52	71	2084	0.134	ng	94
53) 4-Methyl-2-pentanone	11.30	58	3999	0.261	ng	# 53
58) Toluene	12.52	91	184313	2.760	ng	97
59) 2-Hexanone	12.90	43	6319	0.150	ng	91
62) n-Butyl Acetate	13.74	43	22475	0.481	ng	83
63) n-Octane	13.89	57	1436	0.099	ng	# 75
64) Tetrachloroethene	14.00	166	1980978	86.029	ng	99
66) Ethylbenzene	15.37	91	43759	0.571	ng	100
67) m- & p-Xylenes	15.60	91	133405	2.122	ng	97
70) o-Xylene	16.21	91	48122	0.777	ng	97
75) alpha-Pinene	17.49	93	3493	0.109	ng	# 1
76) n-Propylbenzene	17.64	91	10943	0.120	ng	98
78) 4-Ethyltoluene	17.83	105	12101	0.168	ng	99
79) 1,3,5-Trimethylbenzene	17.93	105	7846	0.121	ng	98
82) 1,2,4-Trimethylbenzene	18.40	105	32121	0.488	ng	89
91) d-Limonene	19.06	68	13296	0.603	ng	92

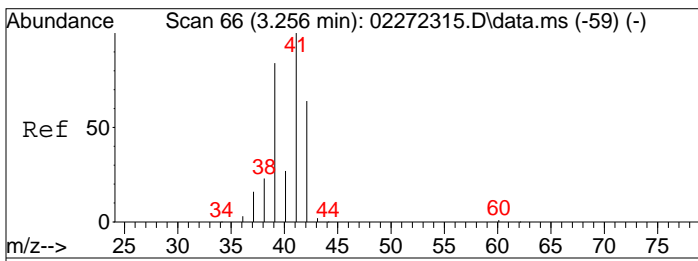
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS09\DATA\2023 03\21\03212312.D
Acq On : 21 Mar 2023 11:12
Sample : P2301184-002 (1000ml)
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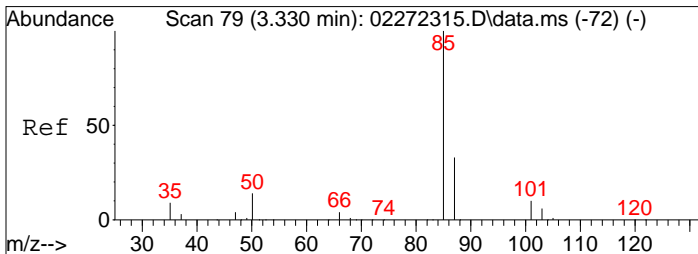
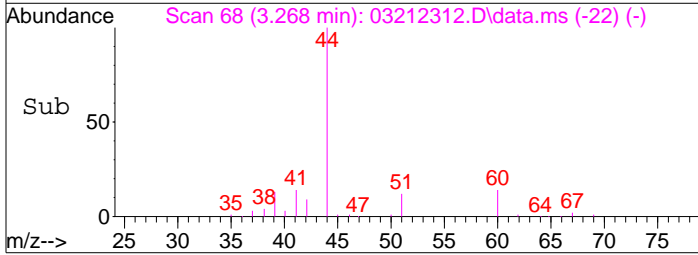
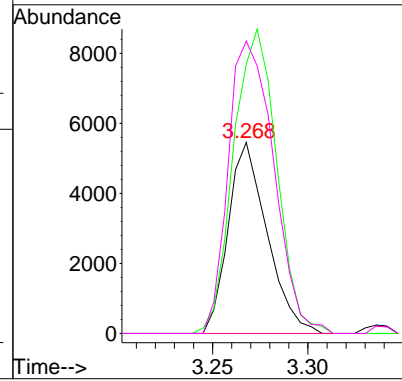
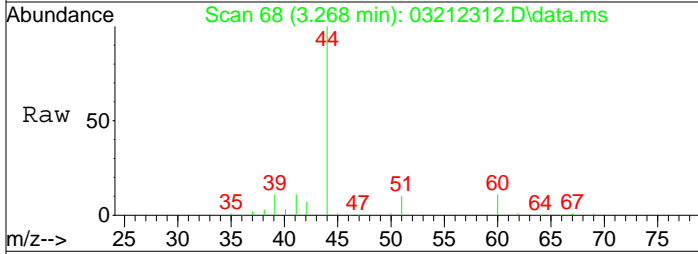
Quant Time: Mar 21 21:18:13 2023
Quant Method : I:\MS09\METHODS\R9022723.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Feb 28 08:30:18 2023
Response via : Initial Calibration
DataAcq Meth:TO15.M





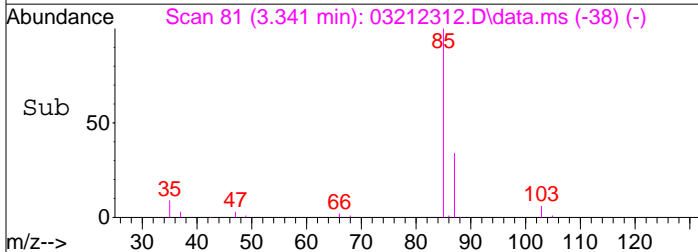
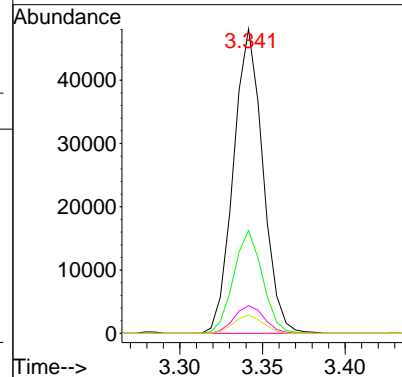
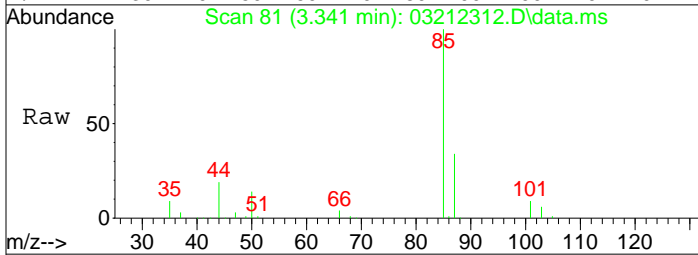
#2
 Propene
 Concen: 0.36 ng
 RT: 3.27 min Scan# 68
 Delta R.T. 0.012 min
 Lab File: 03212312.D
 Acq: 21 Mar 2023 11:12

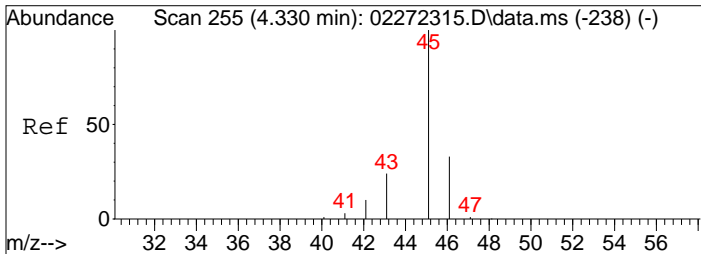
Tgt Ion:	Resp:	Lower	Upper
42	7744		
42	100		
39	177.4	110.0	150.0#
41	179.1	135.8	175.8#



#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.58 ng
 RT: 3.34 min Scan# 81
 Delta R.T. -0.009 min
 Lab File: 03212312.D
 Acq: 21 Mar 2023 11:12

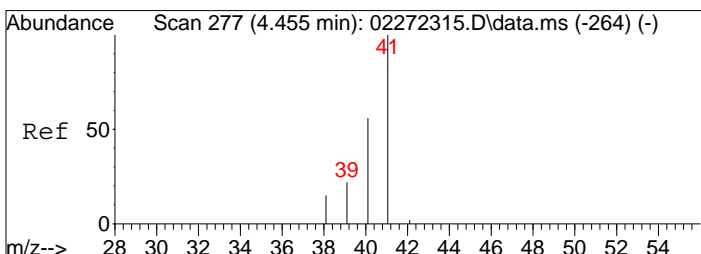
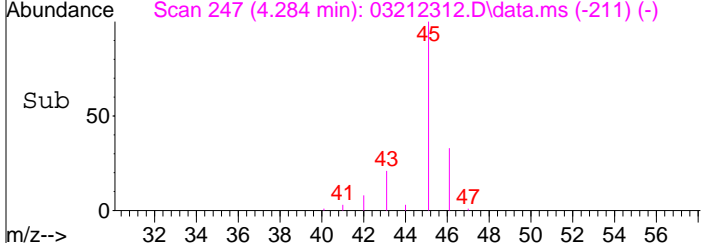
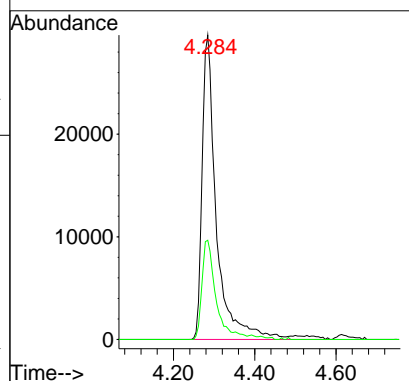
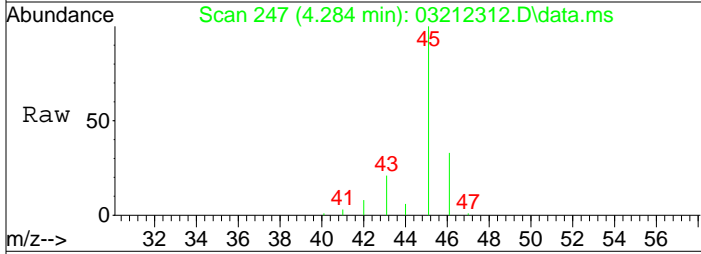
Tgt Ion:	Resp:	Lower	Upper
85	59610		
85	100		
87	33.1	12.3	52.3
101	9.3	0.0	29.7
103	6.0	0.0	26.3





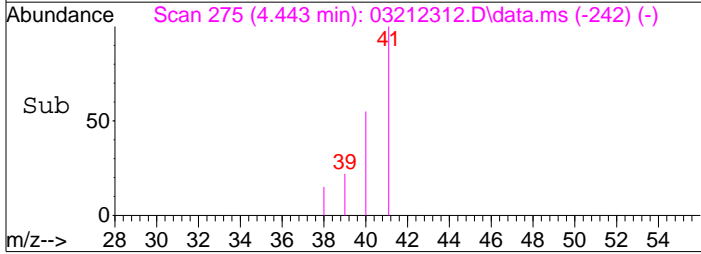
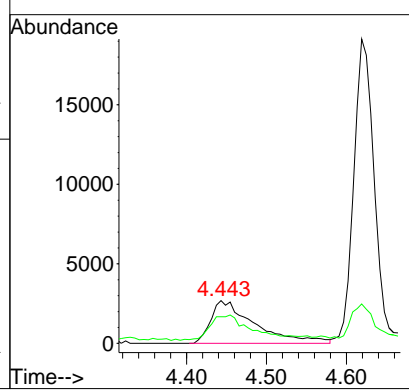
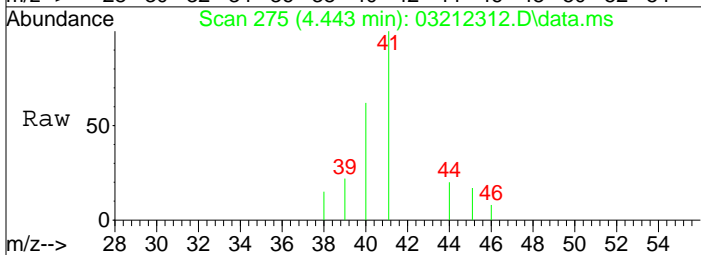
#10
 Ethanol
 Concen: 4.76 ng
 RT: 4.28 min Scan# 247
 Delta R.T. -0.046 min
 Lab File: 03212312.D
 Acq: 21 Mar 2023 11:12

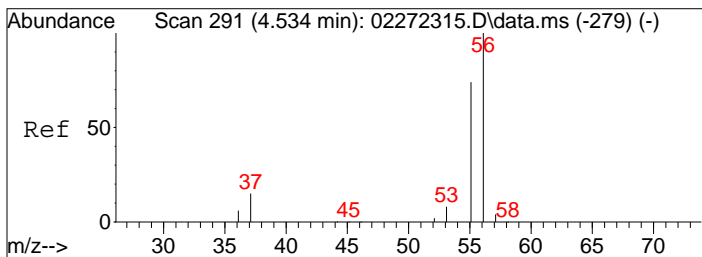
Tgt Ion	Resp	Lower	Upper
45	73751		
45	100		
46	32.7	13.4	53.4



#11
 Acetonitrile
 Concen: 0.26 ng
 RT: 4.44 min Scan# 275
 Delta R.T. -0.011 min
 Lab File: 03212312.D
 Acq: 21 Mar 2023 11:12

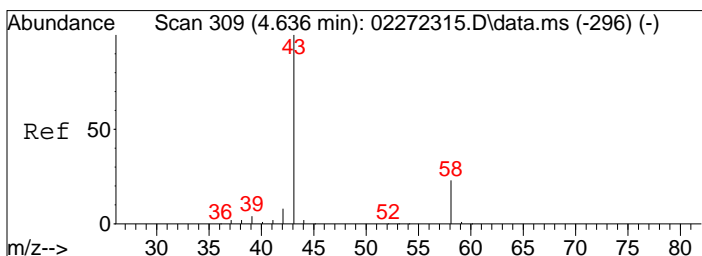
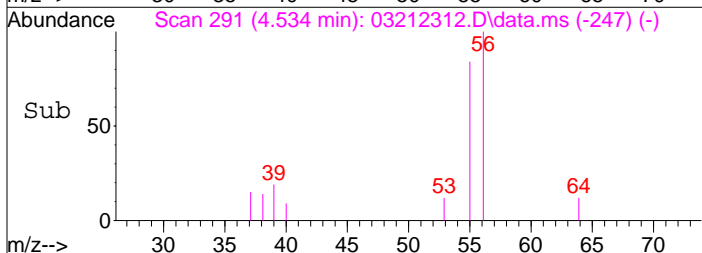
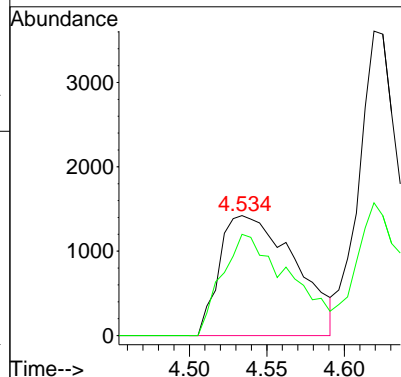
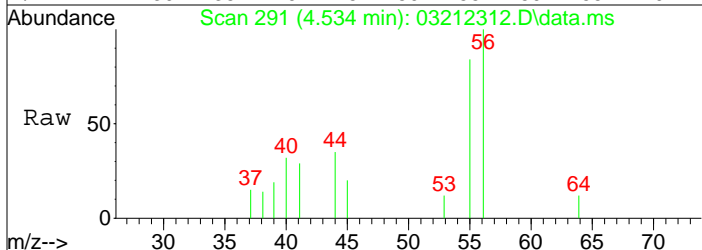
Tgt Ion	Resp	Lower	Upper
41	10281		
41	100		
40	71.7	36.1	76.1





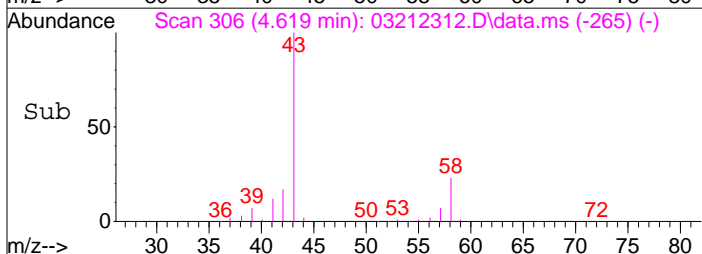
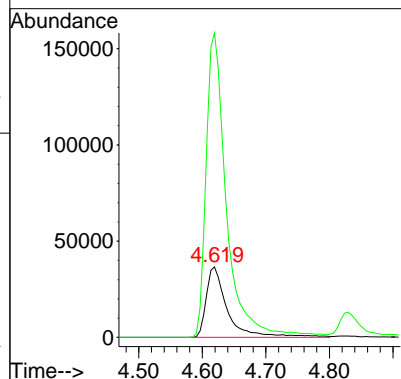
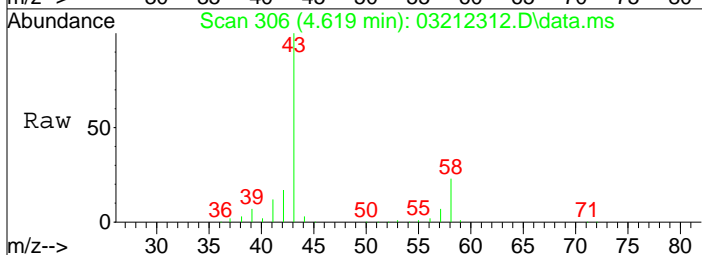
#12
 Acrolein
 Concen: 0.47 ng
 RT: 4.53 min Scan# 291
 Delta R.T. -0.000 min
 Lab File: 03212312.D
 Acq: 21 Mar 2023 11:12

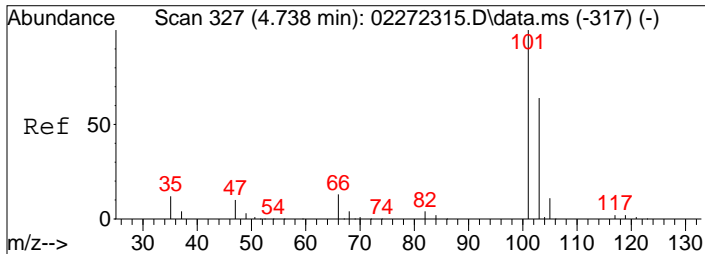
Tgt Ion	Resp	Lower	Upper
56	100		
55	78.7	56.4	96.4



#13
 Acetone
 Concen: 7.26 ng
 RT: 4.62 min Scan# 306
 Delta R.T. -0.017 min
 Lab File: 03212312.D
 Acq: 21 Mar 2023 11:12

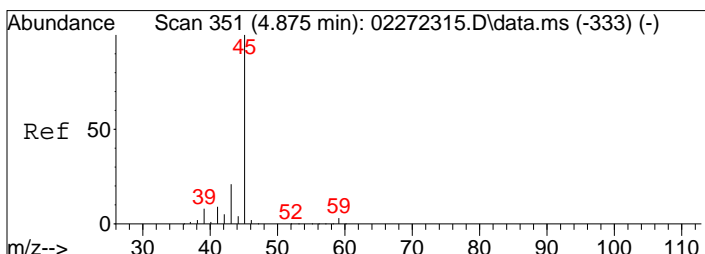
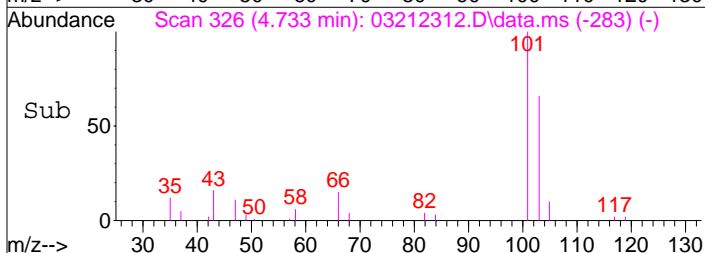
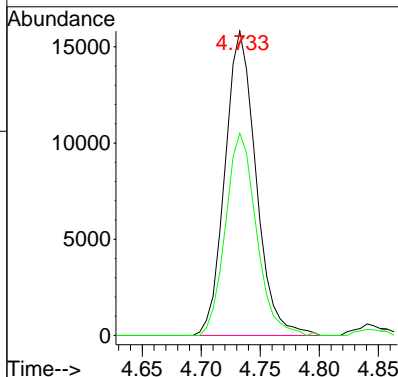
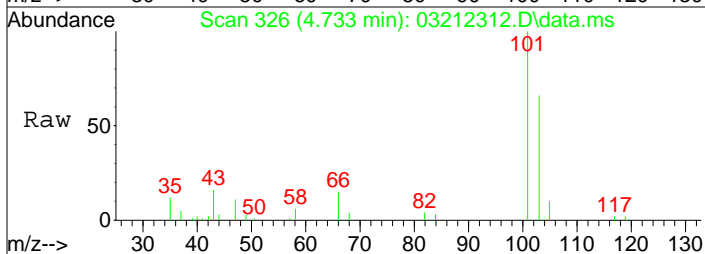
Tgt Ion	Resp	Lower	Upper
58	100		
43	414.2	414.4	474.4#





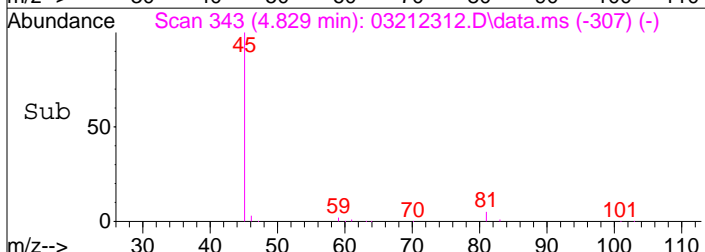
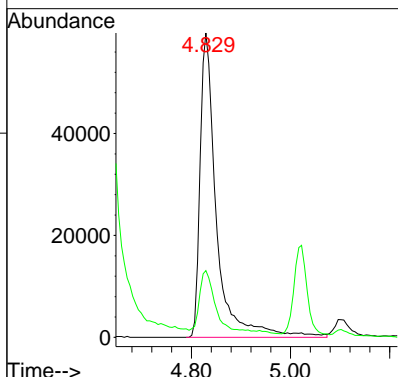
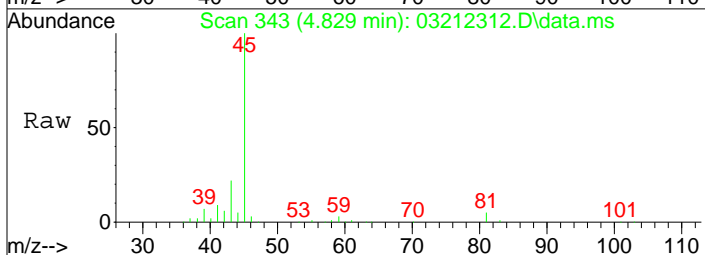
#14
 Trichlorofluoromethane
 Concen: 0.77 ng
 RT: 4.73 min Scan# 326
 Delta R.T. -0.006 min
 Lab File: 03212312.D
 Acq: 21 Mar 2023 11:12

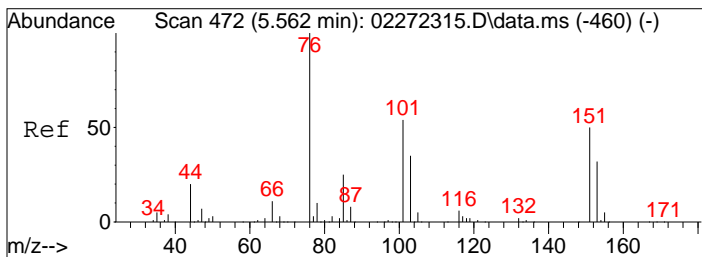
Tgt Ion	Resp	Lower	Upper
101	100		
103	66.0	44.0	84.0



#15
 2-Propanol (Isopropanol)
 Concen: 3.00 ng
 RT: 4.83 min Scan# 343
 Delta R.T. -0.046 min
 Lab File: 03212312.D
 Acq: 21 Mar 2023 11:12

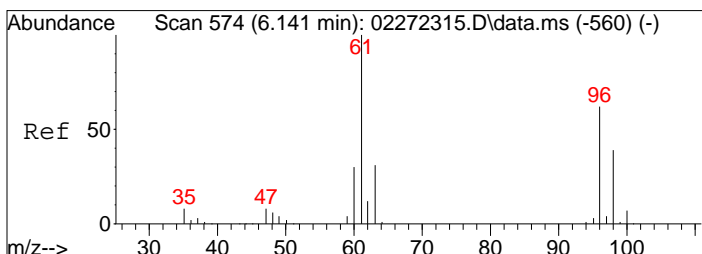
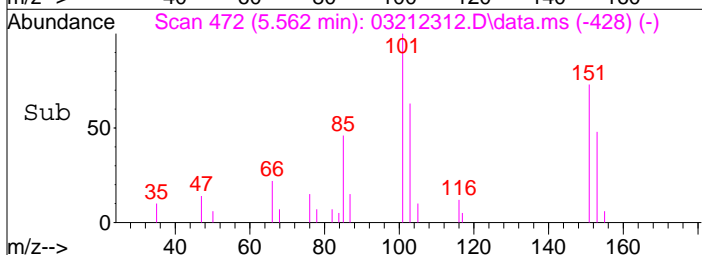
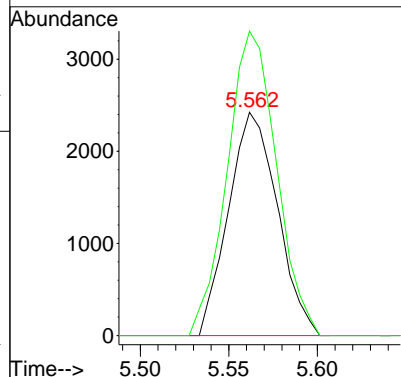
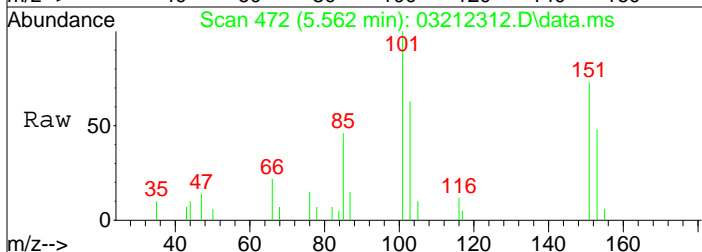
Tgt Ion	Resp	Lower	Upper
45	100		
43	21.7	1.6	41.6





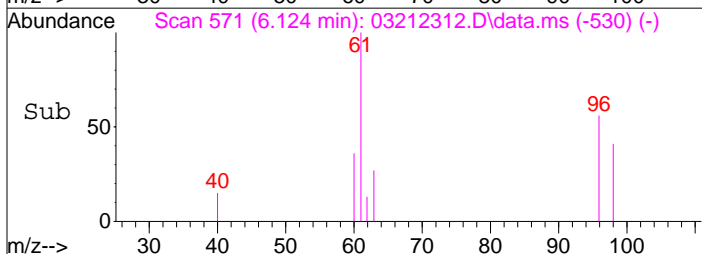
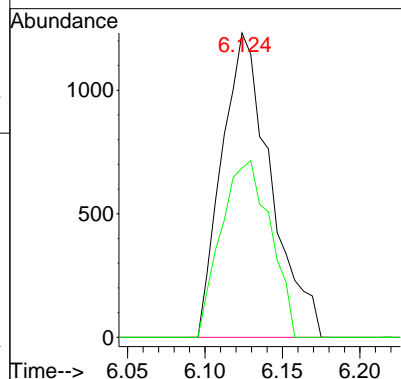
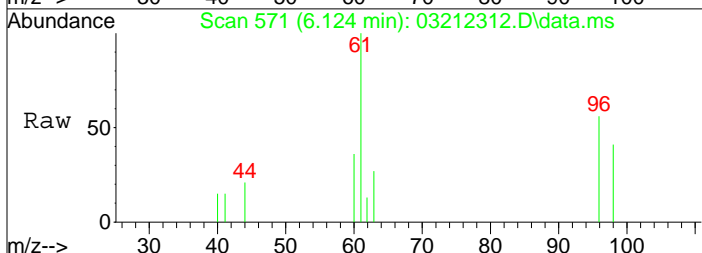
#21
 Trichlorotrifluoroethane
 Concen: 0.27 ng
 RT: 5.56 min Scan# 472
 Delta R.T. -0.000 min
 Lab File: 03212312.D
 Acq: 21 Mar 2023 11:12

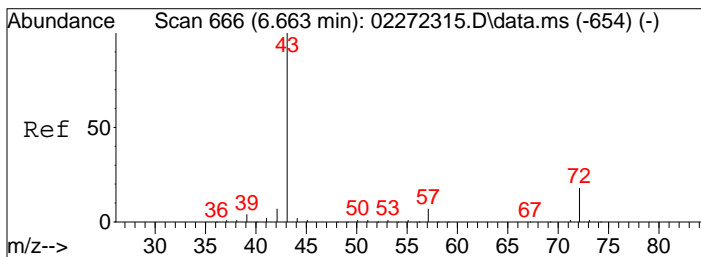
Tgt Ion: 151 Resp: 4660
 Ion Ratio Lower Upper
 151 100
 101 137.2 88.2 128.2#



#23
 trans-1,2-Dichloroethene
 Concen: 0.11 ng
 RT: 6.12 min Scan# 571
 Delta R.T. -0.017 min
 Lab File: 03212312.D
 Acq: 21 Mar 2023 11:12

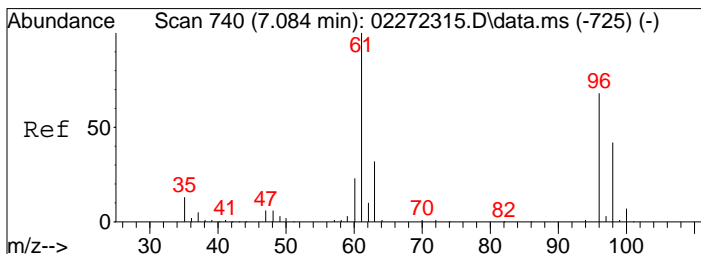
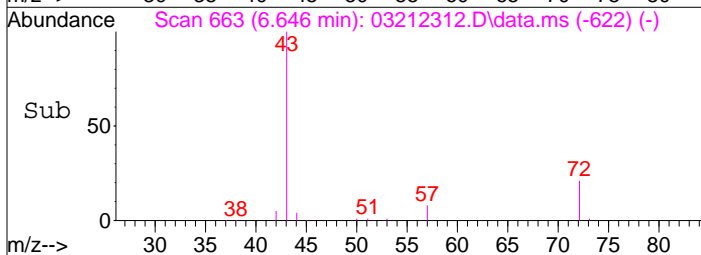
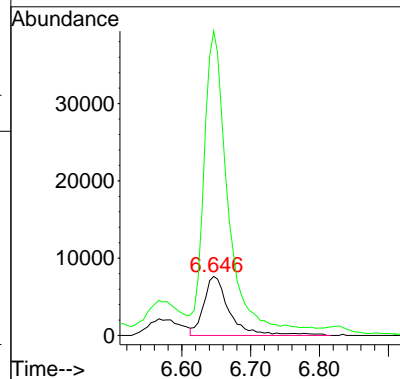
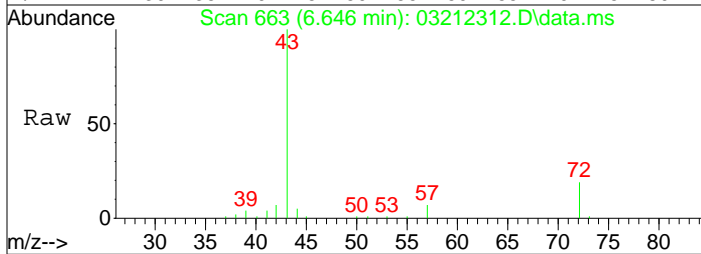
Tgt Ion: 61 Resp: 2703
 Ion Ratio Lower Upper
 61 100
 96 58.6 41.5 81.5





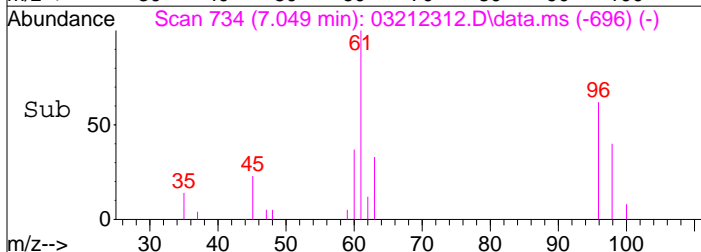
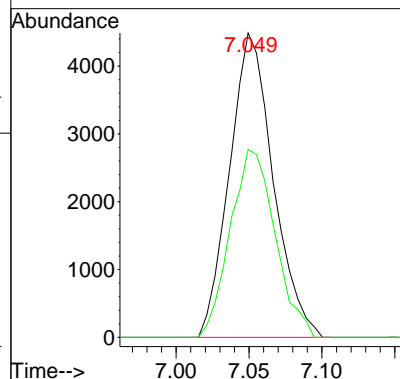
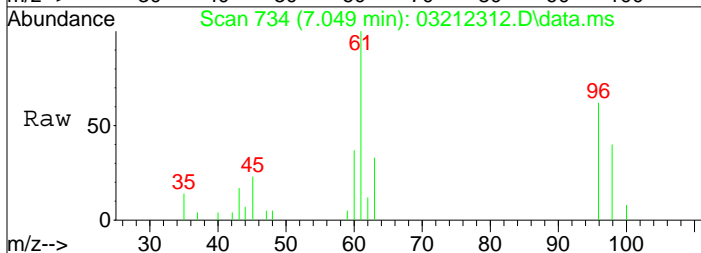
#27
 2-Butanone (MEK)
 Concen: 2.13 ng
 RT: 6.65 min Scan# 663
 Delta R.T. -0.017 min
 Lab File: 03212312.D
 Acq: 21 Mar 2023 11:12

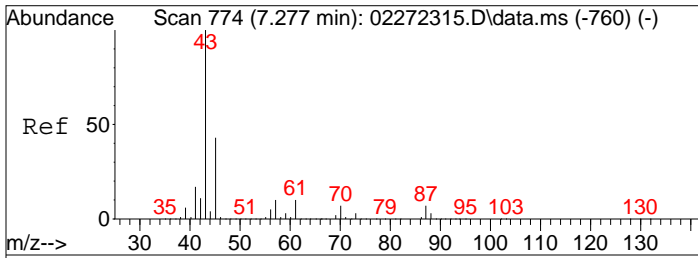
Tgt Ion: 72 Resp: 19910
 Ion Ratio Lower Upper
 72 100
 43 457.6 536.0 576.0#



#28
 cis-1,2-Dichloroethene
 Concen: 0.36 ng
 RT: 7.05 min Scan# 734
 Delta R.T. -0.034 min
 Lab File: 03212312.D
 Acq: 21 Mar 2023 11:12

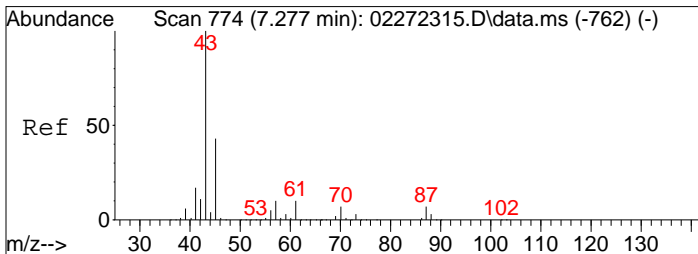
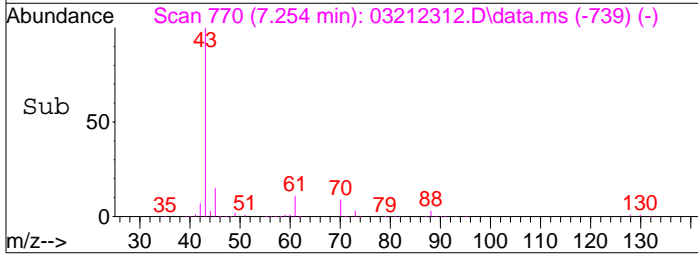
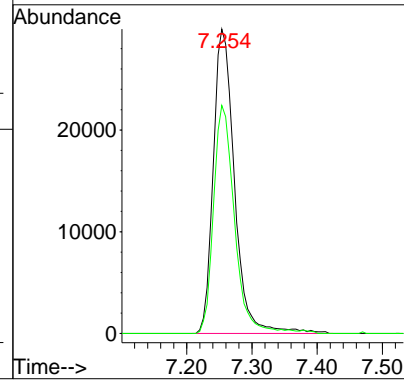
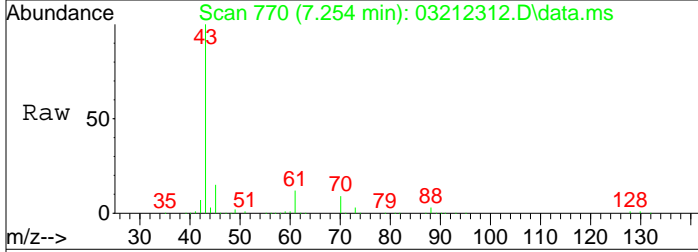
Tgt Ion: 61 Resp: 9333
 Ion Ratio Lower Upper
 61 100
 96 63.5 47.8 87.8





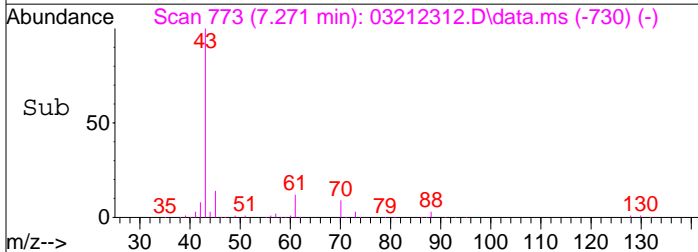
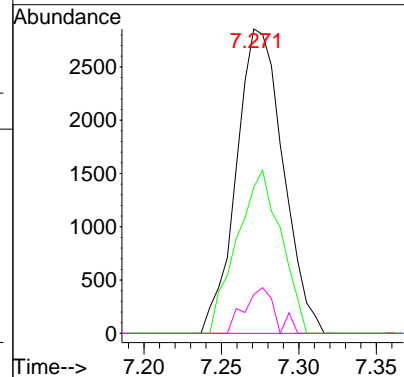
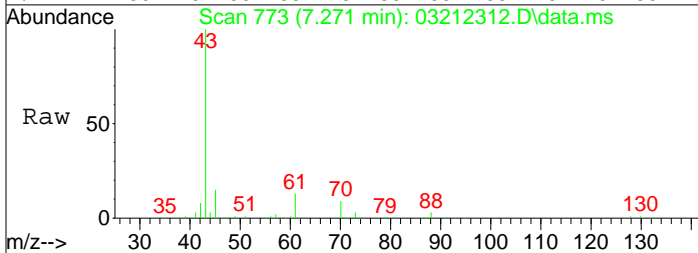
#30
Ethyl Acetate
Concen: 9.41 ng
RT: 7.25 min Scan# 770
Delta R.T. -0.023 min
Lab File: 03212312.D
Acq: 21 Mar 2023 11:12

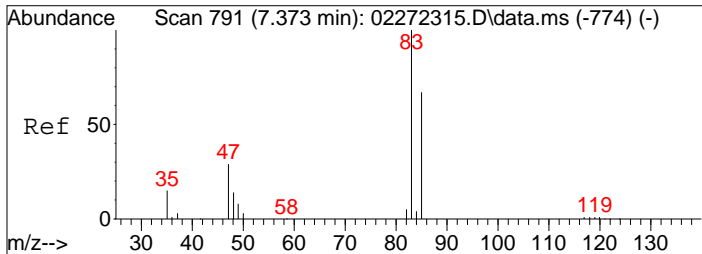
Tgt Ion	Resp	Lower	Upper
61	100		
70	73.9	55.8	95.8



#31
n-Hexane
Concen: 0.20 ng
RT: 7.27 min Scan# 773
Delta R.T. -0.006 min
Lab File: 03212312.D
Acq: 21 Mar 2023 11:12

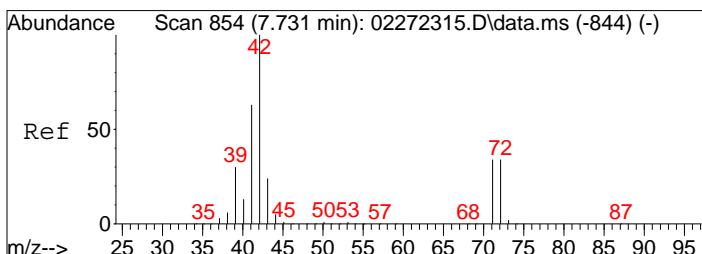
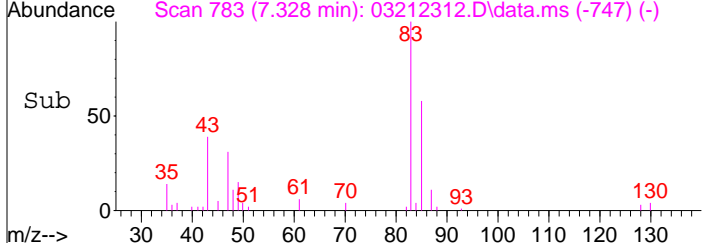
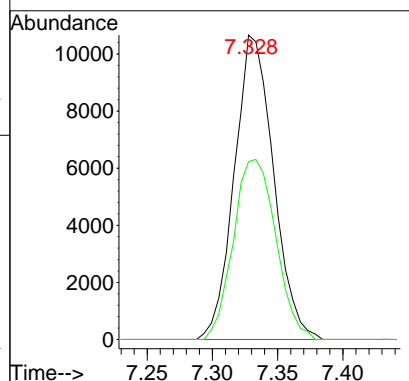
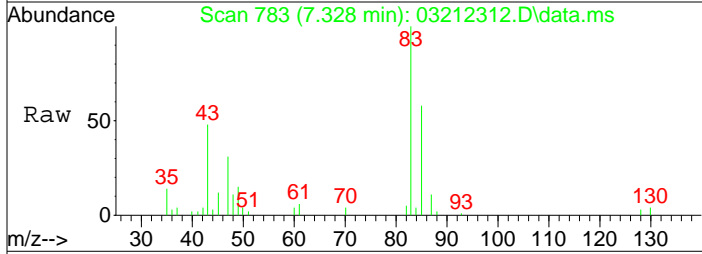
Tgt Ion	Resp	Lower	Upper
57	100		
56	50.6	43.3	64.9
86	9.9	10.2	15.2#





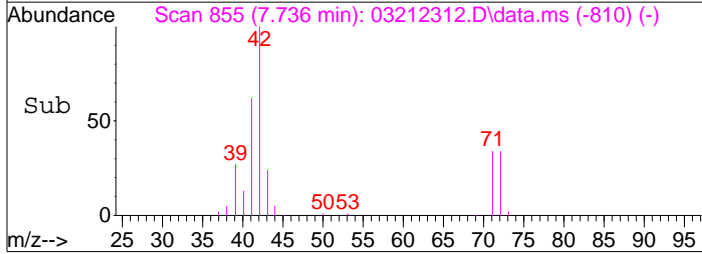
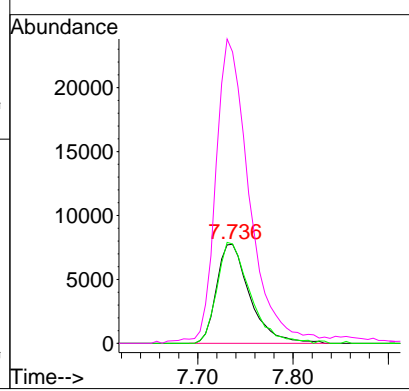
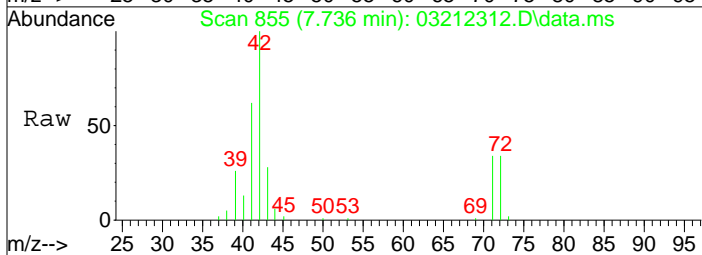
#32
 Chloroform
 Concen: 0.68 ng
 RT: 7.33 min Scan# 783
 Delta R.T. -0.046 min
 Lab File: 03212312.D
 Acq: 21 Mar 2023 11:12

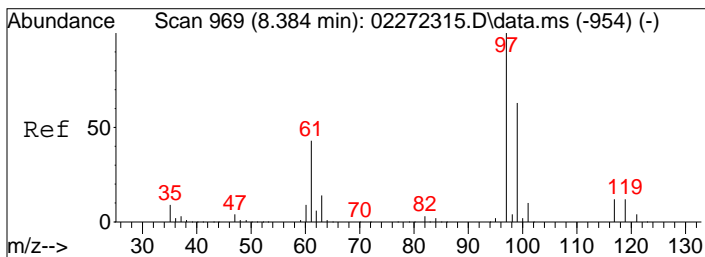
Tgt Ion	Resp	Lower	Upper
83	100		
85	64.1	46.3	86.3



#34
 Tetrahydrofuran (THF)
 Concen: 2.01 ng
 RT: 7.74 min Scan# 855
 Delta R.T. 0.006 min
 Lab File: 03212312.D
 Acq: 21 Mar 2023 11:12

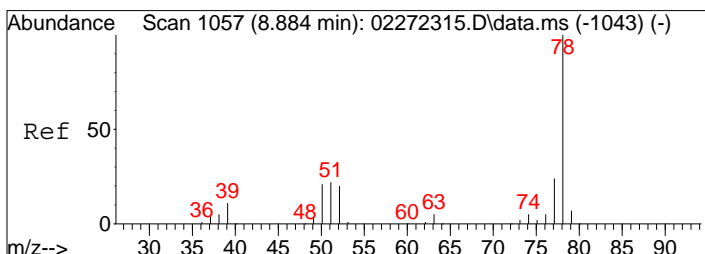
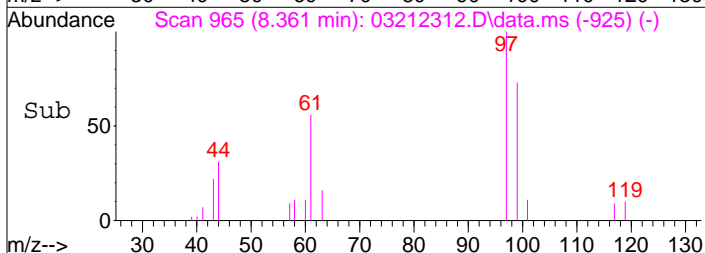
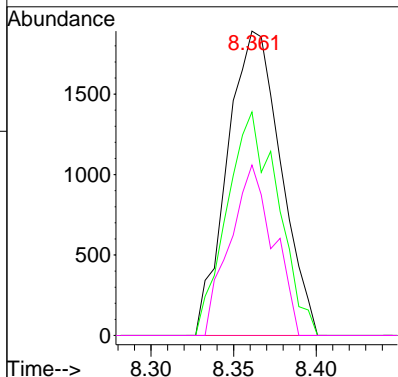
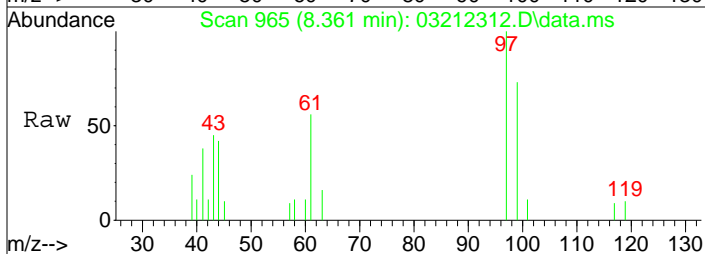
Tgt Ion	Resp	Lower	Upper
72	100		
71	101.0	81.3	121.3
42	312.8	293.7	333.7





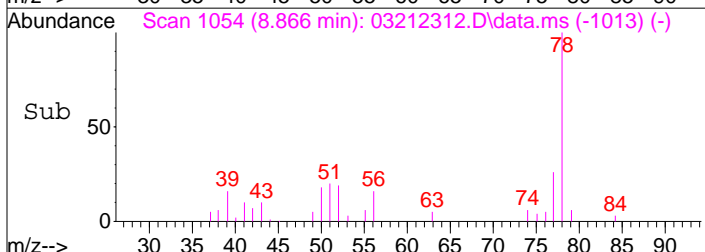
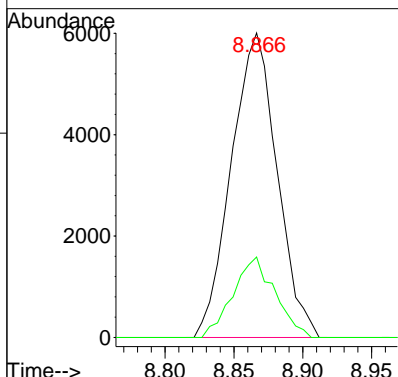
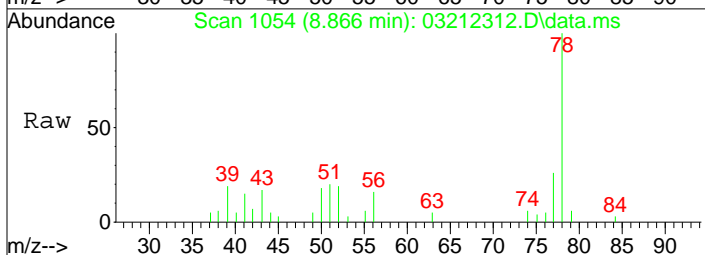
#38
 1,1,1-Trichloroethane
 Concen: 0.13 ng
 RT: 8.36 min Scan# 965
 Delta R.T. -0.023 min
 Lab File: 03212312.D
 Acq: 21 Mar 2023 11:12

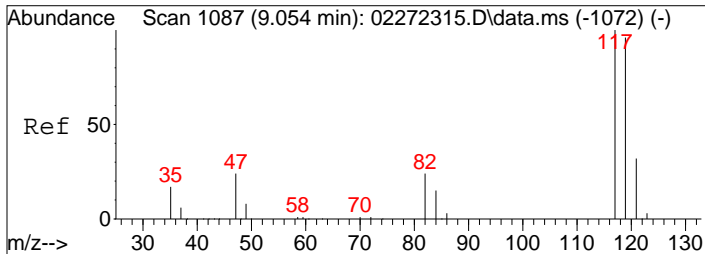
Tgt Ion	Resp	Lower	Upper
97	100		
99	70.0	44.1	84.1
61	45.6	24.0	64.0



#41
 Benzene
 Concen: 0.22 ng
 RT: 8.87 min Scan# 1054
 Delta R.T. -0.017 min
 Lab File: 03212312.D
 Acq: 21 Mar 2023 11:12

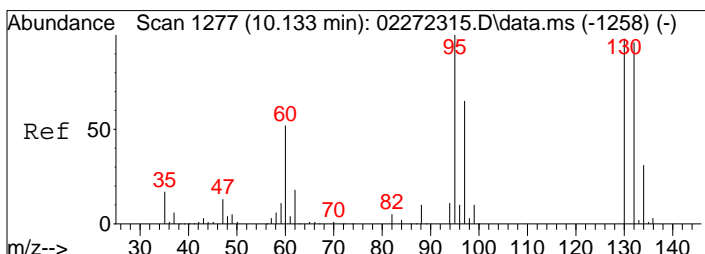
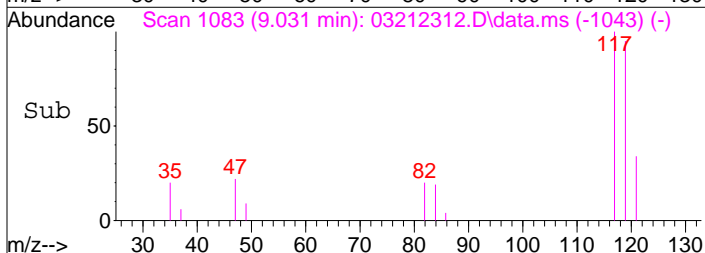
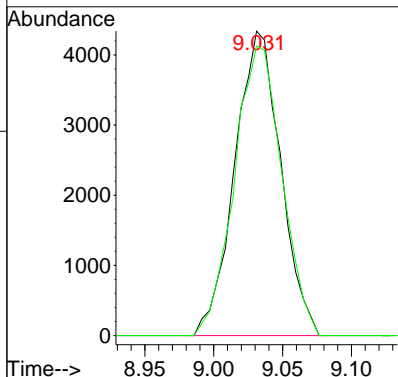
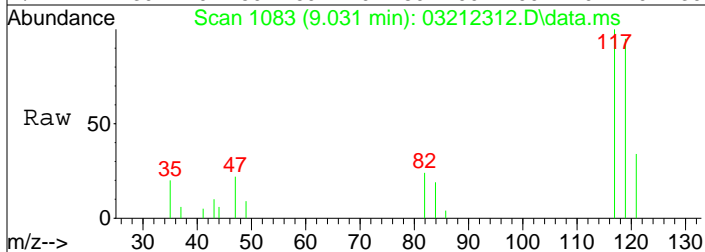
Tgt Ion	Resp	Lower	Upper
78	100		
77	24.2	4.0	44.0





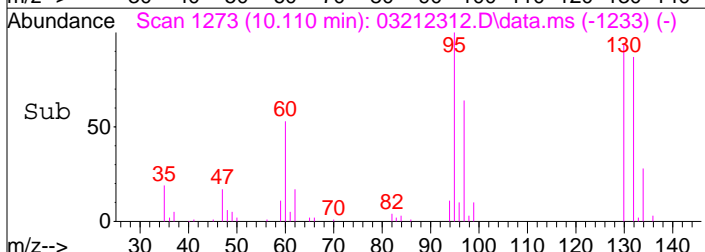
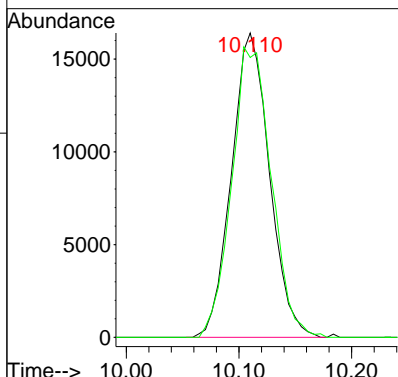
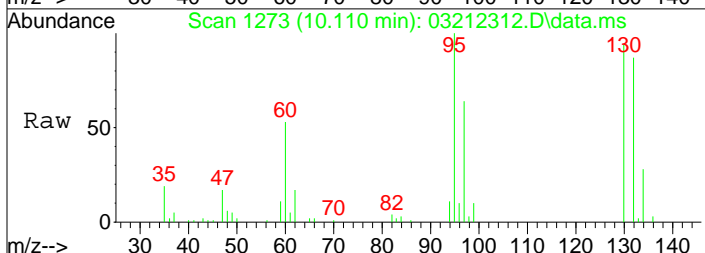
#42
 Carbon Tetrachloride
 Concen: 0.36 ng
 RT: 9.03 min Scan# 1083
 Delta R.T. -0.023 min
 Lab File: 03212312.D
 Acq: 21 Mar 2023 11:12

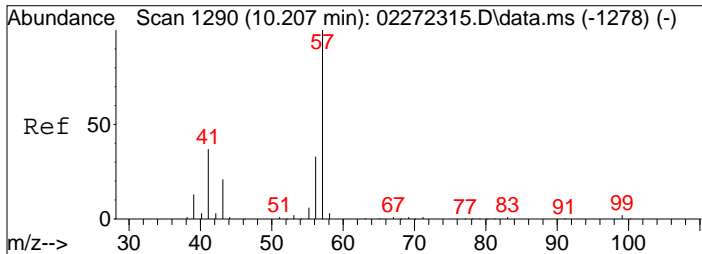
Tgt Ion:117 Resp: 10055
 Ion Ratio Lower Upper
 117 100
 119 98.4 75.5 115.5



#47
 Trichloroethene
 Concen: 2.10 ng
 RT: 10.11 min Scan# 1273
 Delta R.T. -0.023 min
 Lab File: 03212312.D
 Acq: 21 Mar 2023 11:12

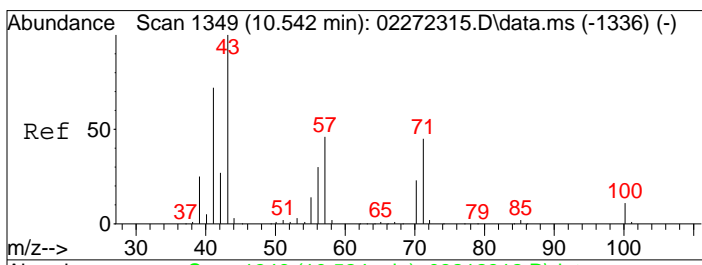
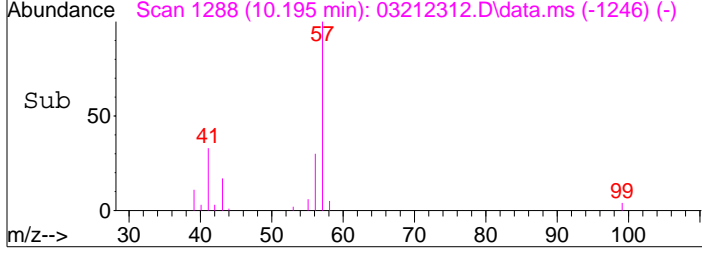
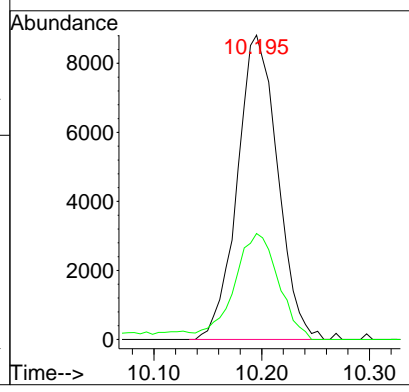
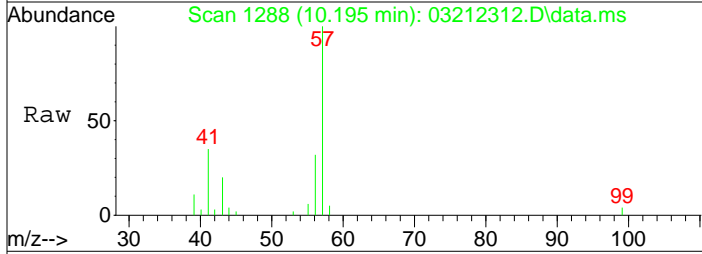
Tgt Ion:130 Resp: 38451
 Ion Ratio Lower Upper
 130 100
 132 99.3 77.9 117.9





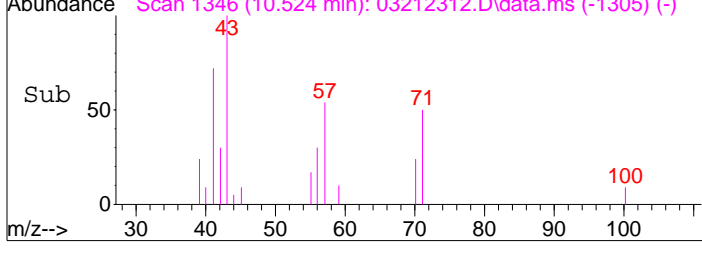
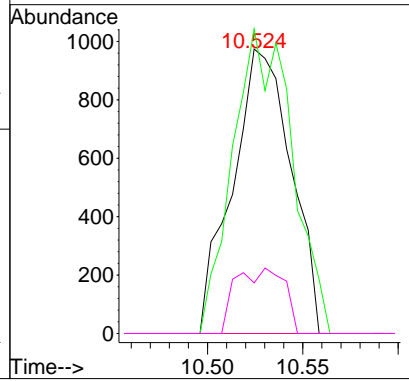
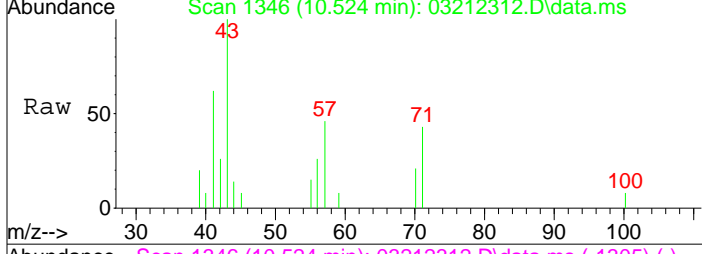
#49
 2,2,4-Trimethylpentane (Isooctane)
 Concen: 0.30 ng
 RT: 10.20 min Scan# 1288
 Delta R.T. -0.011 min
 Lab File: 03212312.D
 Acq: 21 Mar 2023 11:12

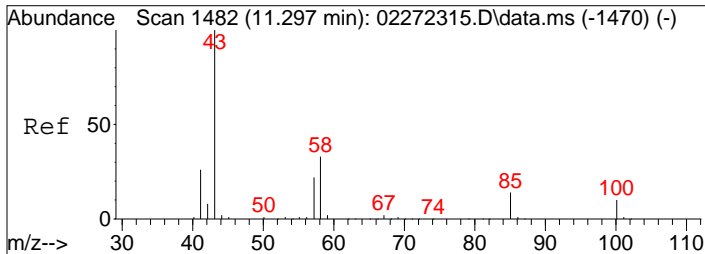
Tgt Ion	Resp	Lower	Upper
57	100		
41	38.2	17.1	57.1



#51
 n-Heptane
 Concen: 0.13 ng
 RT: 10.52 min Scan# 1346
 Delta R.T. -0.017 min
 Lab File: 03212312.D
 Acq: 21 Mar 2023 11:12

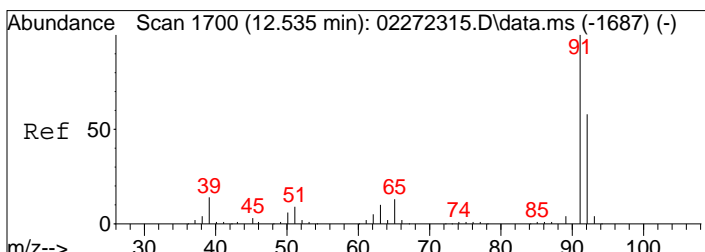
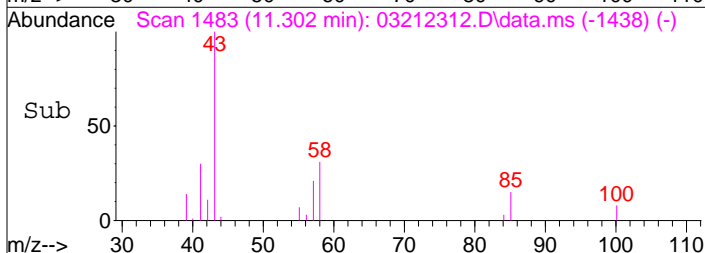
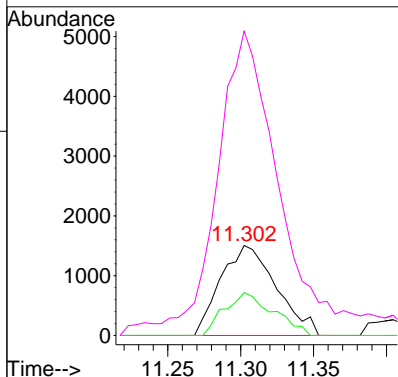
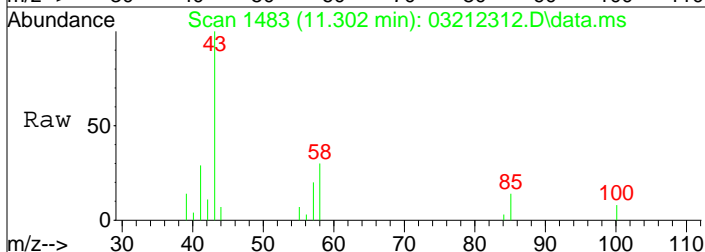
Tgt Ion	Resp	Lower	Upper
71	100		
57	108.4	84.6	124.6
100	19.1	5.8	45.8





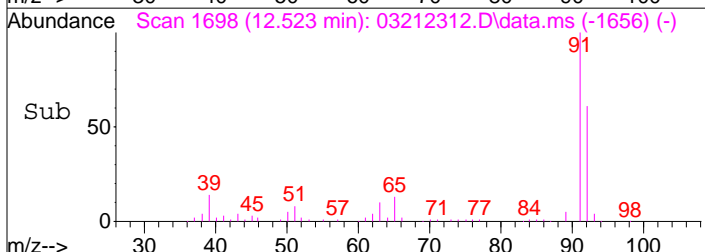
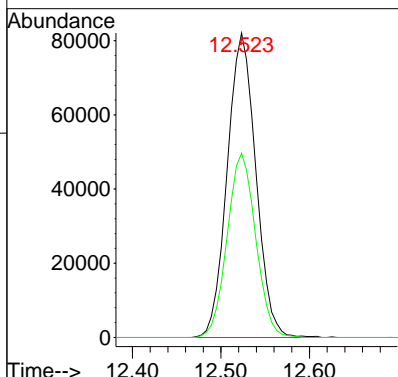
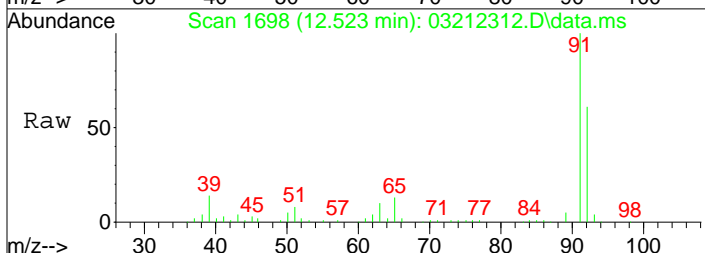
#53
 4-Methyl-2-pentanone
 Concen: 0.26 ng
 RT: 11.30 min Scan# 1483
 Delta R.T. 0.006 min
 Lab File: 03212312.D
 Acq: 21 Mar 2023 11:12

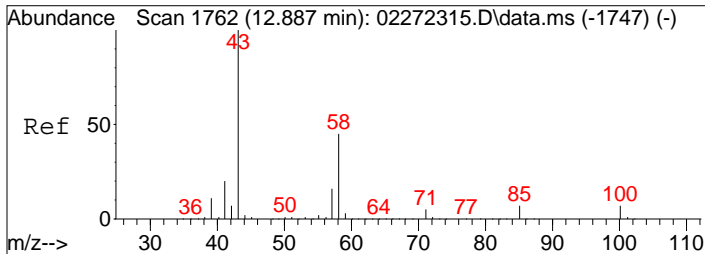
Tgt Ion:	Resp:	Lower	Upper
58	100		
85	41.7	35.7	53.5
43	408.7	242.9	364.3#



#58
 Toluene
 Concen: 2.76 ng
 RT: 12.52 min Scan# 1698
 Delta R.T. -0.011 min
 Lab File: 03212312.D
 Acq: 21 Mar 2023 11:12

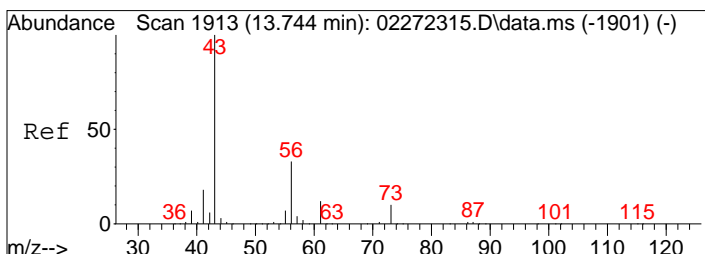
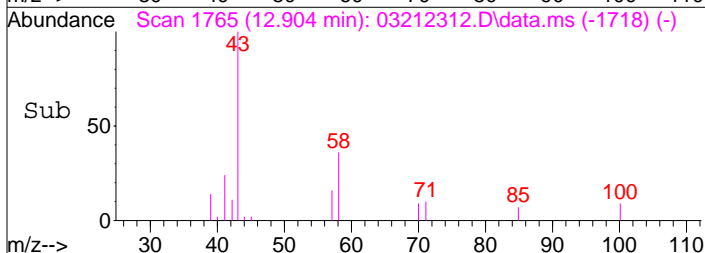
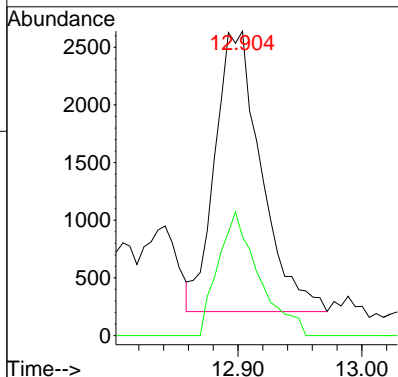
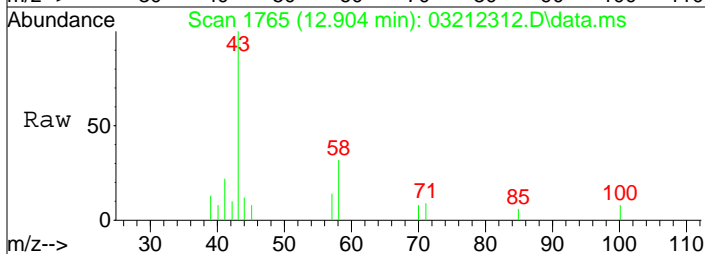
Tgt Ion:	Resp:	Lower	Upper
91	100		
92	60.2	37.6	77.6





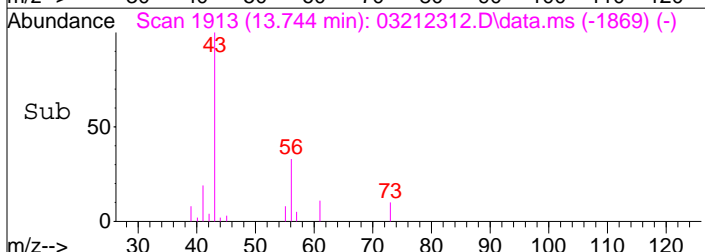
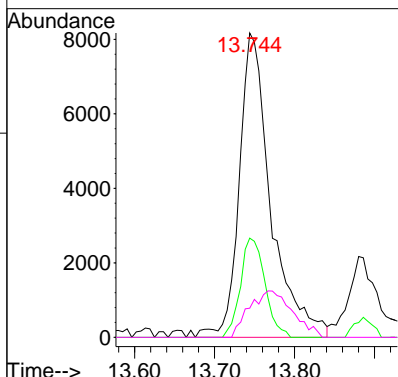
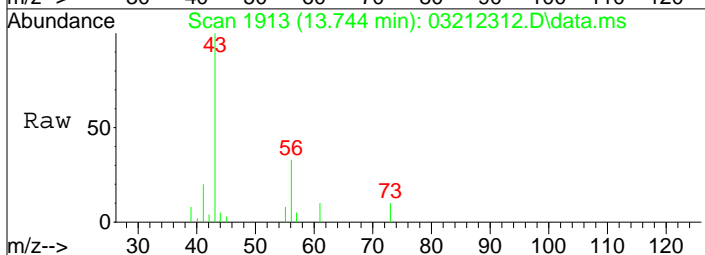
#59
 2-Hexanone
 Concen: 0.15 ng
 RT: 12.90 min Scan# 1765
 Delta R.T. 0.017 min
 Lab File: 03212312.D
 Acq: 21 Mar 2023 11:12

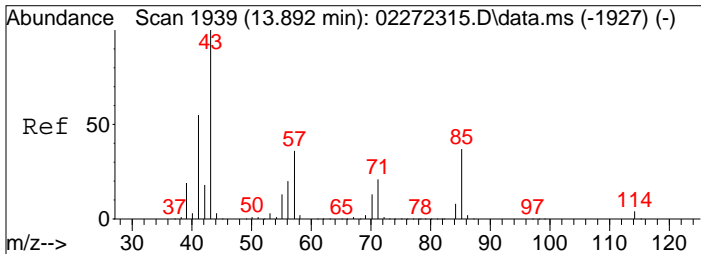
Tgt Ion	Resp	Lower	Upper
43	6319		
58	38.7	24.7	64.7



#62
 n-Butyl Acetate
 Concen: 0.48 ng
 RT: 13.74 min Scan# 1913
 Delta R.T. -0.000 min
 Lab File: 03212312.D
 Acq: 21 Mar 2023 11:12

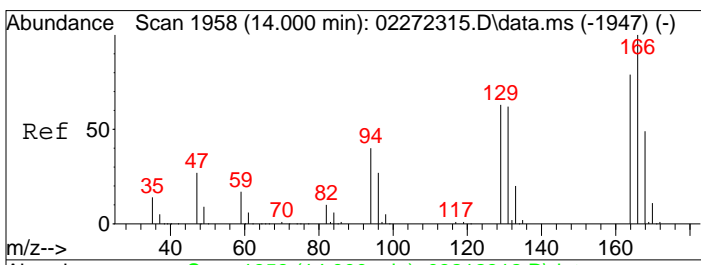
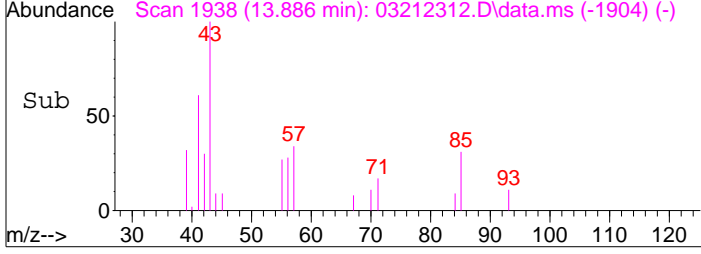
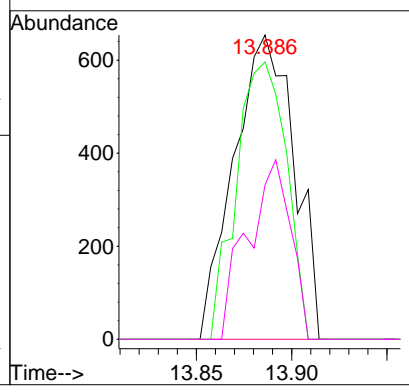
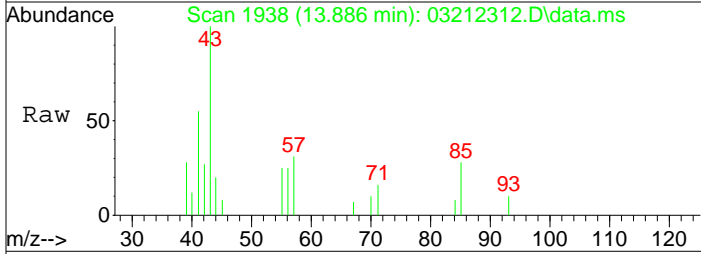
Tgt Ion	Resp	Lower	Upper
43	22475		
56	25.3	13.1	53.1
73	20.9	0.0	29.9





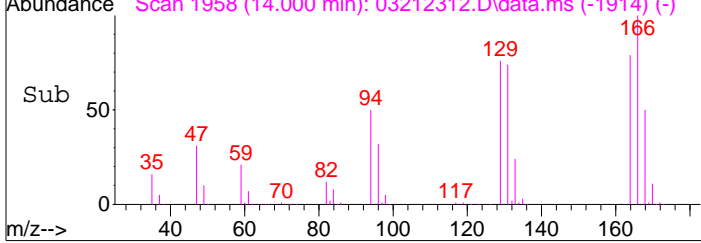
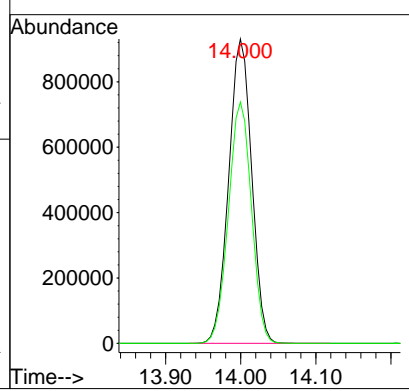
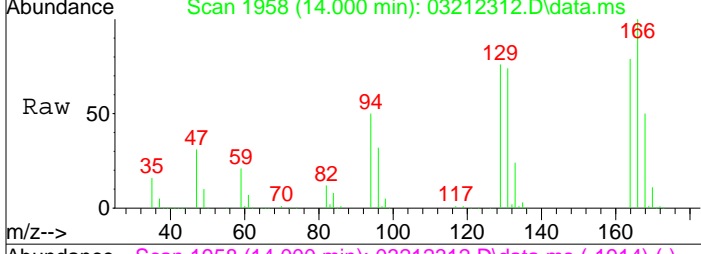
#63
 n-Octane
 Concen: 0.10 ng
 RT: 13.89 min Scan# 1938
 Delta R.T. -0.006 min
 Lab File: 03212312.D
 Acq: 21 Mar 2023 11:12

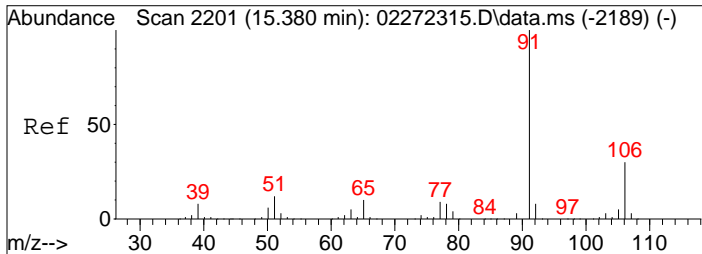
Tgt Ion:	Resp:	Lower	Upper
57	1436		
57	100		
85	76.0	82.4	123.6#
71	42.5	47.8	71.6#



#64
 Tetrachloroethene
 Concen: 86.03 ng
 RT: 14.00 min Scan# 1958
 Delta R.T. -0.000 min
 Lab File: 03212312.D
 Acq: 21 Mar 2023 11:12

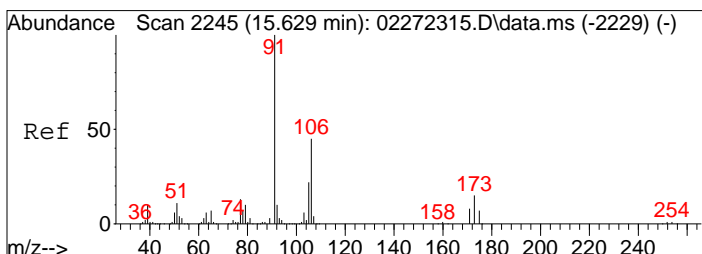
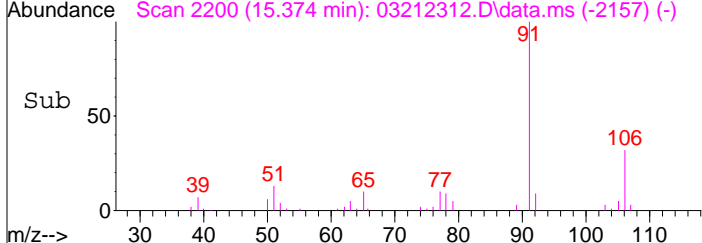
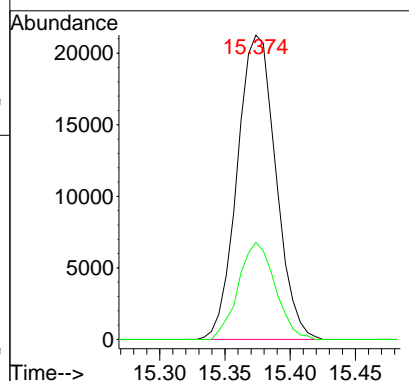
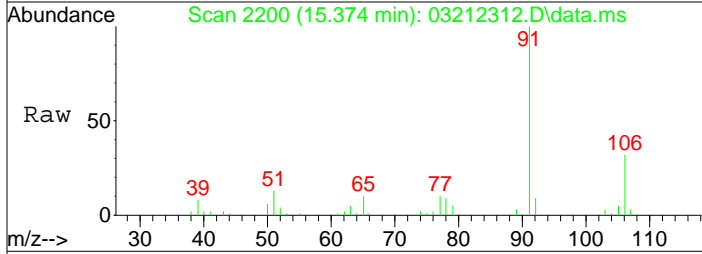
Tgt Ion:	Resp:	Lower	Upper
166	1980978		
166	100		
164	79.4	58.6	98.6





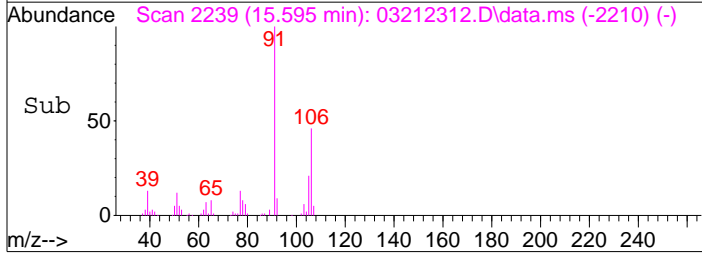
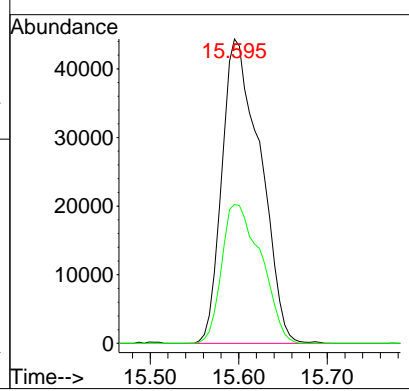
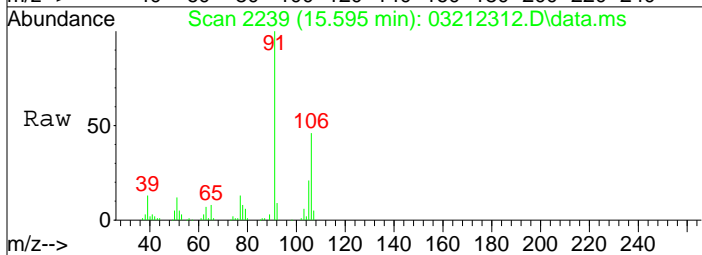
#66
 Ethylbenzene
 Concen: 0.57 ng
 RT: 15.37 min Scan# 2200
 Delta R.T. -0.006 min
 Lab File: 03212312.D
 Acq: 21 Mar 2023 11:12

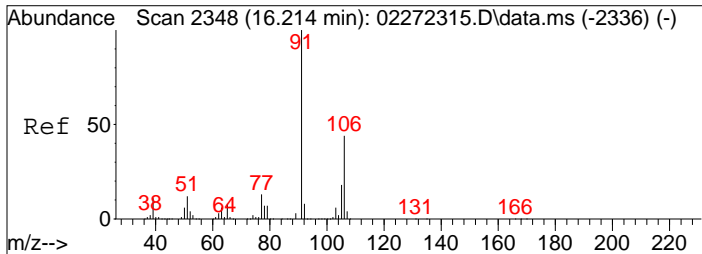
Tgt Ion	Resp	Lower	Upper
91	43759	100	
106	30.3	10.3	50.3



#67
 m- & p-Xylenes
 Concen: 2.12 ng
 RT: 15.60 min Scan# 2239
 Delta R.T. -0.034 min
 Lab File: 03212312.D
 Acq: 21 Mar 2023 11:12

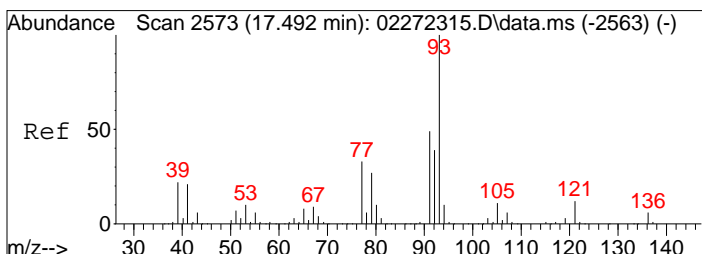
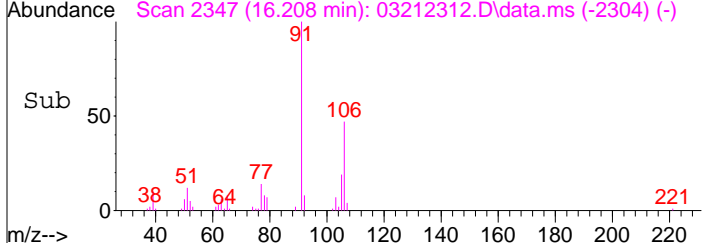
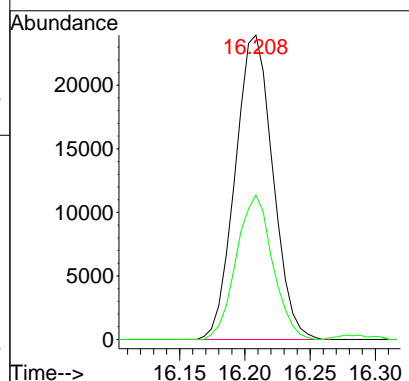
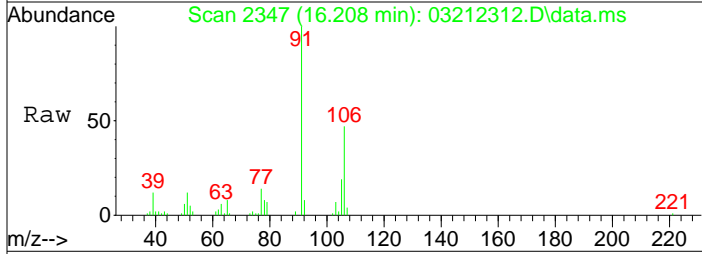
Tgt Ion	Resp	Lower	Upper
91	133405	100	
106	46.9	25.0	65.0





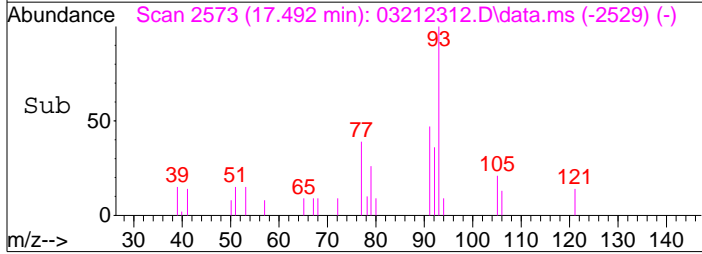
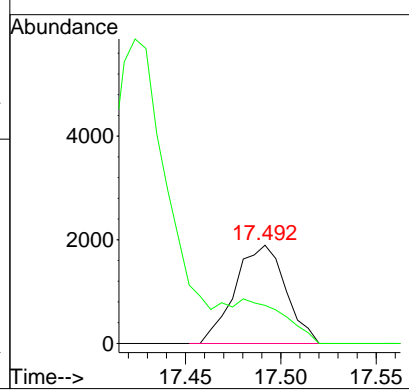
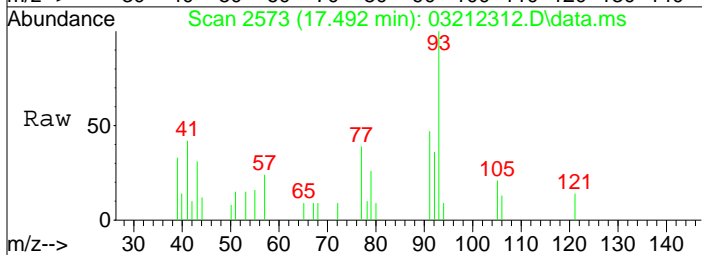
#70
 o-Xylene
 Concen: 0.78 ng
 RT: 16.21 min Scan# 2347
 Delta R.T. -0.006 min
 Lab File: 03212312.D
 Acq: 21 Mar 2023 11:12

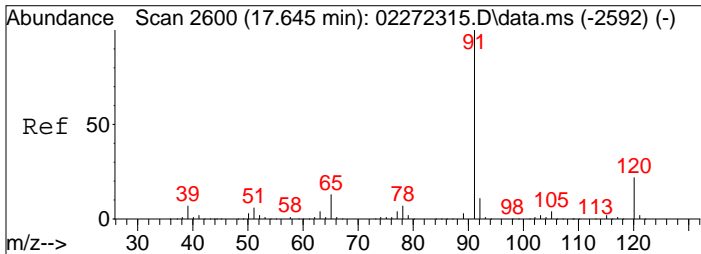
Tgt Ion:	91	106	Resp:	48122
Ion Ratio	100	45.6	Lower	Upper
			24.0	64.0



#75
 alpha-Pinene
 Concen: 0.11 ng
 RT: 17.49 min Scan# 2573
 Delta R.T. -0.000 min
 Lab File: 03212312.D
 Acq: 21 Mar 2023 11:12

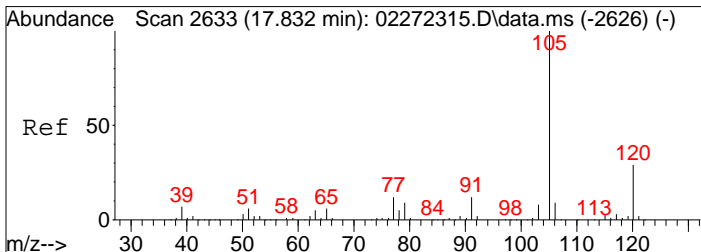
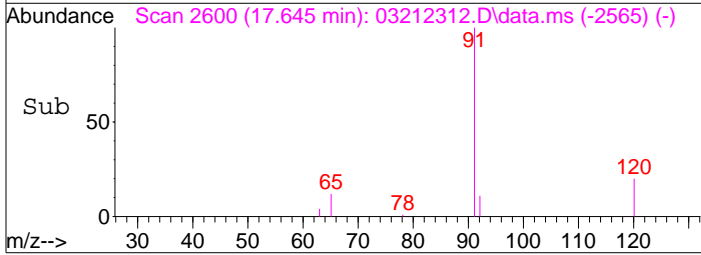
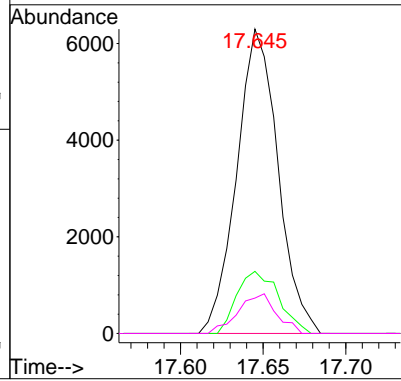
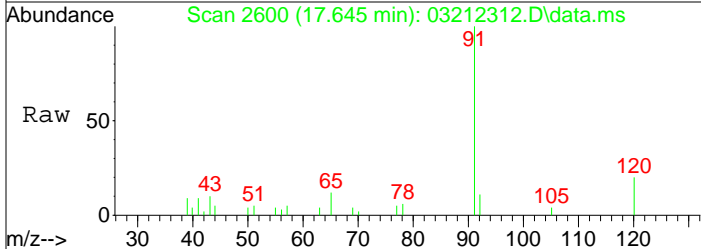
Tgt Ion:	93	77	Resp:	3493
Ion Ratio	100	397.8	Lower	Upper
			14.2	54.2#





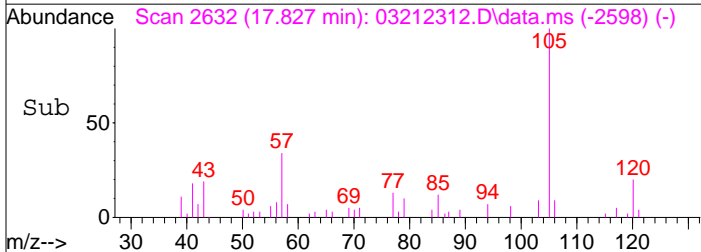
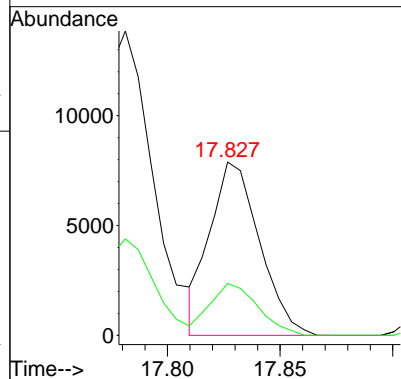
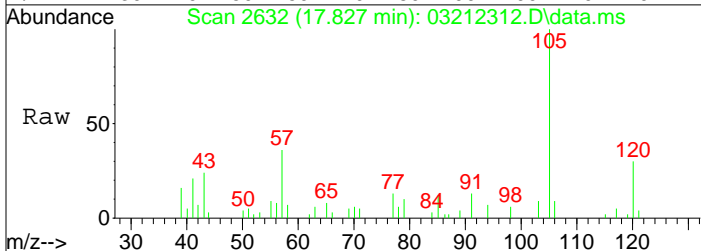
#76
 n-Propylbenzene
 Concen: 0.12 ng
 RT: 17.64 min Scan# 2600
 Delta R.T. -0.000 min
 Lab File: 03212312.D
 Acq: 21 Mar 2023 11:12

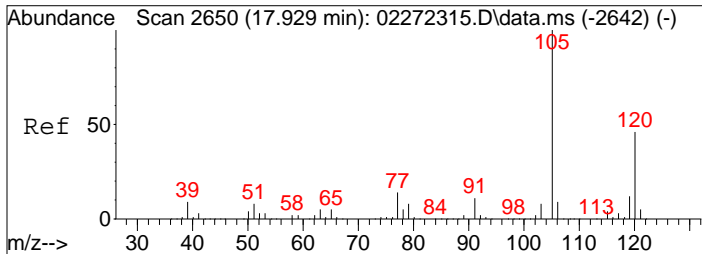
Tgt Ion:	Resp:	Lower	Upper
91	10943		
120	20.7	2.0	42.0
65	12.1	0.0	32.3



#78
 4-Ethyltoluene
 Concen: 0.17 ng
 RT: 17.83 min Scan# 2632
 Delta R.T. -0.006 min
 Lab File: 03212312.D
 Acq: 21 Mar 2023 11:12

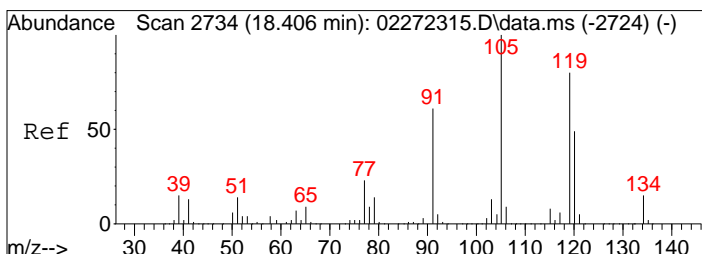
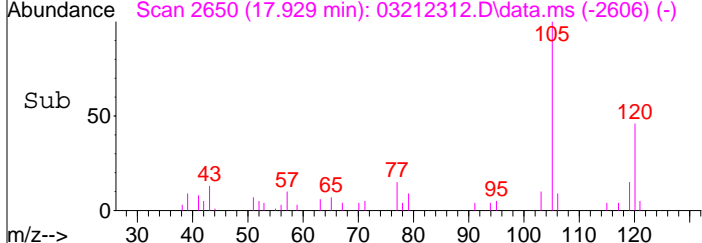
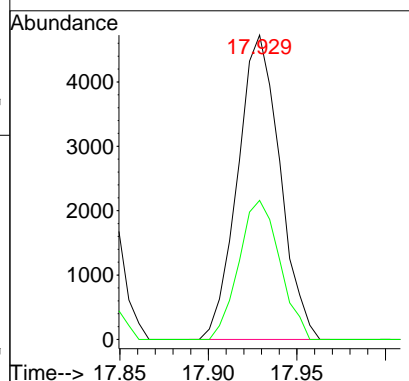
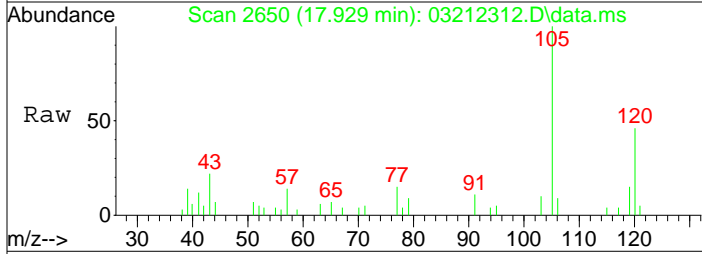
Tgt Ion:	Resp:	Lower	Upper
105	12101		
120	29.0	8.5	48.5





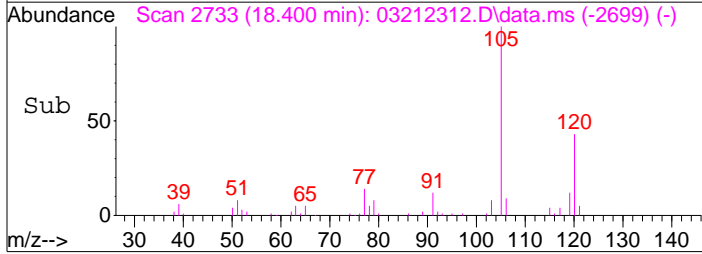
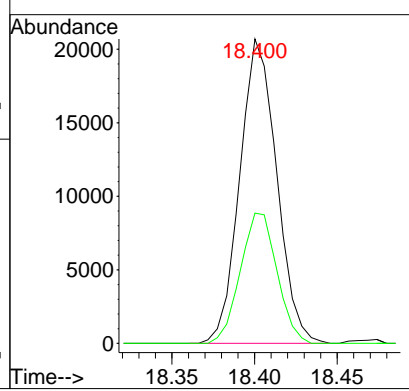
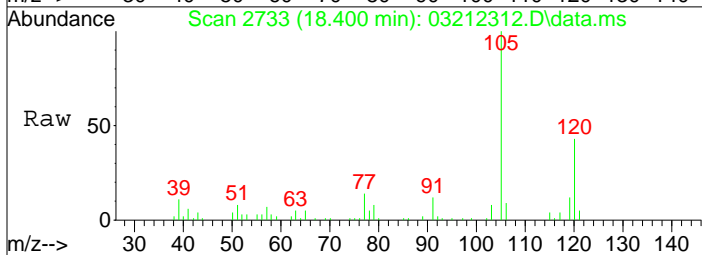
#79
 1,3,5-Trimethylbenzene
 Concen: 0.12 ng
 RT: 17.93 min Scan# 2650
 Delta R.T. -0.000 min
 Lab File: 03212312.D
 Acq: 21 Mar 2023 11:12

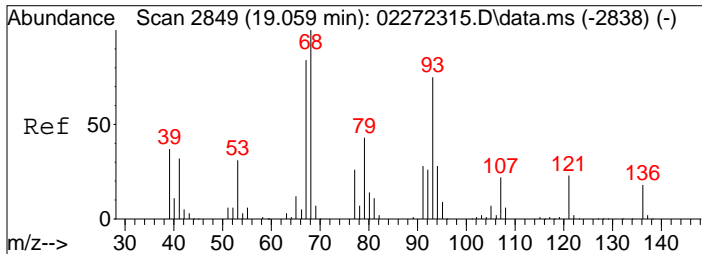
Tgt Ion	Resp	Lower	Upper
105	100		
120	44.3	25.5	65.5



#82
 1,2,4-Trimethylbenzene
 Concen: 0.49 ng
 RT: 18.40 min Scan# 2733
 Delta R.T. -0.006 min
 Lab File: 03212312.D
 Acq: 21 Mar 2023 11:12

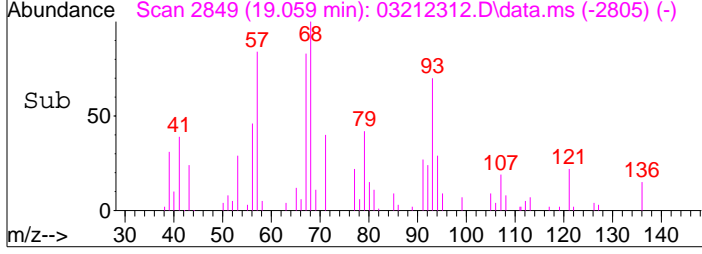
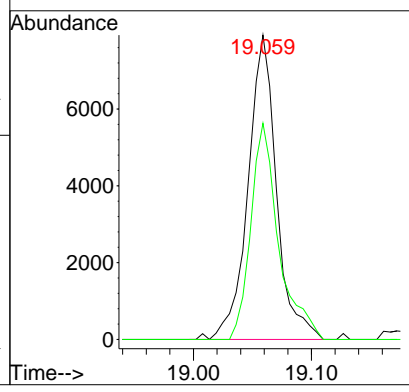
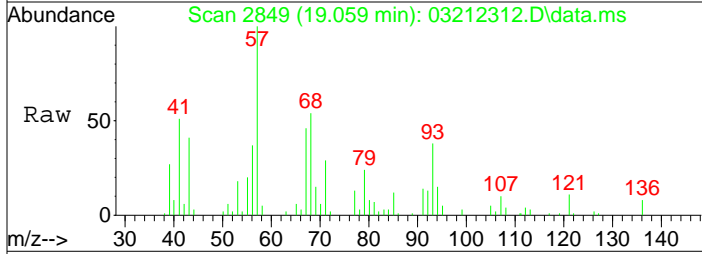
Tgt Ion	Resp	Lower	Upper
105	100		
120	42.6	30.5	70.5





#91
 d-Limonene
 Concen: 0.60 ng
 RT: 19.06 min Scan# 2849
 Delta R.T. -0.000 min
 Lab File: 03212312.D
 Acq: 21 Mar 2023 11:12

Tgt Ion	Resp	Lower	Upper
68	13296		
68	100		
93	69.2	55.7	95.7



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: New York State DEC
Client Sample ID: Building-1-SS2-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC02194

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.91 Final Pressure (psig): 3.56

Canister Dilution Factor: 1.32

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.70	ND	0.41	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	0.70	0.43	0.14	
74-87-3	Chloromethane	ND	0.28	ND	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.69	ND	0.098	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.057	
106-99-0	1,3-Butadiene	ND	0.28	ND	0.13	
74-83-9	Bromomethane	ND	0.28	ND	0.071	
75-00-3	Chloroethane	ND	0.28	ND	0.11	
64-17-5	Ethanol	11	6.6	6.0	3.5	
75-05-8	Acetonitrile	ND	1.3	ND	0.79	
107-02-8	Acrolein	ND	1.3	ND	0.58	
67-64-1	Acetone	ND	7.0	ND	2.9	
75-69-4	Trichlorofluoromethane (CFC 11)	0.99	0.69	0.18	0.12	
67-63-0	2-Propanol (Isopropyl Alcohol)	6.1	1.4	2.5	0.55	
107-13-1	Acrylonitrile	ND	1.3	ND	0.61	
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.037	
75-09-2	Methylene Chloride	1.3	0.70	0.36	0.20	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.70	ND	0.22	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.71	ND	0.093	
75-15-0	Carbon Disulfide	ND	1.4	ND	0.45	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.037	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.036	
1634-04-4	Methyl tert-Butyl Ether	ND	0.71	ND	0.20	
108-05-4	Vinyl Acetate	ND	6.6	ND	1.9	
78-93-3	2-Butanone (MEK)	5.2	1.4	1.8	0.47	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3

Client: New York State DEC
Client Sample ID: Building-1-SS2-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC02194

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.91 Final Pressure (psig): 3.56

Canister Dilution Factor: 1.32

CAS #	Compound	Result $\mu\text{g}/\text{m}^3$	MRL $\mu\text{g}/\text{m}^3$	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.15	ND	0.037	
141-78-6	Ethyl Acetate	22	2.8	6.1	0.77	
110-54-3	n-Hexane	2.0	0.70	0.57	0.20	
67-66-3	Chloroform	0.26	0.15	0.053	0.030	
109-99-9	Tetrahydrofuran (THF)	4.9	0.66	1.7	0.22	
107-06-2	1,2-Dichloroethane	0.17	0.15	0.042	0.036	
71-55-6	1,1,1-Trichloroethane	ND	0.15	ND	0.027	
71-43-2	Benzene	1.4	0.15	0.43	0.045	
56-23-5	Carbon Tetrachloride	0.43	0.15	0.068	0.023	
110-82-7	Cyclohexane	ND	1.4	ND	0.40	
78-87-5	1,2-Dichloropropane	1.1	0.15	0.23	0.031	
75-27-4	Bromodichloromethane	ND	0.15	ND	0.022	
79-01-6	Trichloroethene	0.27	0.15	0.050	0.027	
123-91-1	1,4-Dioxane	ND	0.70	ND	0.19	
80-62-6	Methyl Methacrylate	ND	1.5	ND	0.35	
142-82-5	n-Heptane	1.3	0.70	0.31	0.17	
10061-01-5	cis-1,3-Dichloropropene	ND	0.71	ND	0.16	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.35	
10061-02-6	trans-1,3-Dichloropropene	ND	0.67	ND	0.15	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.027	
108-88-3	Toluene	19	0.70	5.0	0.19	
591-78-6	2-Hexanone	ND	1.5	ND	0.35	
124-48-1	Dibromochloromethane	ND	0.15	ND	0.017	
106-93-4	1,2-Dibromoethane	ND	0.15	ND	0.019	
123-86-4	n-Butyl Acetate	ND	1.3	ND	0.28	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3 of 3

Client: New York State DEC
Client Sample ID: Building-1-SS2-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC02194

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.91 Final Pressure (psig): 3.56

Canister Dilution Factor: 1.32

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.71	ND	0.15	
127-18-4	Tetrachloroethene	20	0.15	2.9	0.021	
108-90-7	Chlorobenzene	ND	0.70	ND	0.15	
100-41-4	Ethylbenzene	2.3	0.70	0.53	0.16	
179601-23-1	m,p-Xylenes	7.2	1.5	1.7	0.33	
75-25-2	Bromoform	ND	0.71	ND	0.069	
100-42-5	Styrene	0.72	0.70	0.17	0.16	
95-47-6	o-Xylene	2.6	0.70	0.59	0.16	
111-84-2	n-Nonane	ND	0.70	ND	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.021	
98-82-8	Cumene	ND	0.71	ND	0.15	
80-56-8	alpha-Pinene	ND	1.5	ND	0.26	
103-65-1	n-Propylbenzene	ND	0.71	ND	0.15	
622-96-8	4-Ethyltoluene	ND	0.73	ND	0.15	
108-67-8	1,3,5-Trimethylbenzene	ND	0.70	ND	0.14	
95-63-6	1,2,4-Trimethylbenzene	1.4	0.70	0.28	0.14	
100-44-7	Benzyl Chloride	ND	2.8	ND	0.54	
541-73-1	1,3-Dichlorobenzene	ND	0.70	ND	0.12	
106-46-7	1,4-Dichlorobenzene	ND	0.70	ND	0.12	
95-50-1	1,2-Dichlorobenzene	ND	0.71	ND	0.12	
5989-27-5	d-Limonene	1.8	1.5	0.33	0.26	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.5	ND	0.15	
120-82-1	1,2,4-Trichlorobenzene	ND	1.5	ND	0.20	
91-20-3	Naphthalene	ND	0.73	ND	0.14	
87-68-3	Hexachlorobutadiene	ND	0.70	ND	0.066	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Data File : I:\MS09\DATA\2023 03\21\03212313.D
 Acq On : 21 Mar 2023 11:44
 Sample : P2301184-003 (1000ml)
 Misc : S35-02212305

Vial: 6
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 21 21:21:03 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

WA 3/21/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.20	130	165507	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.27	114	740889	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.81	54	165945	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.97	65	354056	12.636	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery	=	101.12%	
57) Toluene-d8 (SS2)	12.39	98	878106	13.926	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	111.44%	
73) Bromofluorobenzene (SS3)	16.79	174	268083	10.426	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	83.44%	

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	3.34	85	61214	1.602	ng	100
4) Chloromethane	3.48	50	2188	0.091	ng	82
5) 1,2-Dichloro-1,1,2,2-t...	3.59	135	1261	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	3.74	54	535	N.D.		
8) Bromomethane	4.00	94	199	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	4.27	45	135500	8.627	ng	99
11) Acetonitrile	4.43	41	2879	N.D.		
12) Acrolein	4.52	56	2055	0.196	ng	97
13) Acetone	0.00	58	0	N.D.	d	
14) Trichlorofluoromethane	4.73	101	28664	0.752	ng	100
15) 2-Propanol (Isopropanol)	4.82	45	214305	4.612	ng	96
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	5.33	84	15087	0.960	ng	100
20) 3-Chloro-1-propene (Al...	5.43	41	601	N.D.		
21) Trichlorotrifluoroethane	5.55	151	5037	0.292	ng	# 75
22) Carbon Disulfide	5.58	76	26884	0.470	ng	97
23) trans-1,2-Dichloroethene	6.10	61	255	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	6.36	73	1298	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	6.63	72	37685	3.972	ng	# 88
28) cis-1,2-Dichloroethene	7.06	61	388	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	7.25	61	121799	16.699	ng	96
31) n-Hexane	7.27	57	46392	1.532	ng	99
32) Chloroform	7.33	83	6550	0.197	ng	90
34) Tetrahydrofuran (THF)	7.73	72	35480	3.734	ng	95
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.08	62	3721	0.129	ng	95
38) 1,1,1-Trichloroethane	8.36	97	1348	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	8.79	56	16142	No Calib	#	
41) Benzene	8.86	78	66199	1.047	ng	100
42) Carbon Tetrachloride	9.03	117	9078	0.326	ng	100
43) Cyclohexane	9.18	84	14819	0.630	ng	98
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	9.82	63	14292	0.802	ng	96
46) Bromodichloromethane	10.07	83	1223	N.D.		
47) Trichloroethene	10.12	130	3774	0.204	ng	99
48) 1,4-Dioxane	10.12	88	387	N.D.		
49) 2,2,4-Trimethylpentane...	10.20	57	127107	1.644	ng	98
50) Methyl Methacrylate	10.38	100	1754	0.294	ng	# 57

Data File : I:\MS09\DATA\2023 03\21\03212313.D
 Acq On : 21 Mar 2023 11:44
 Sample : P2301184-003 (1000ml)
 Misc : S35-02212305

Vial: 6
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 21 21:21:03 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

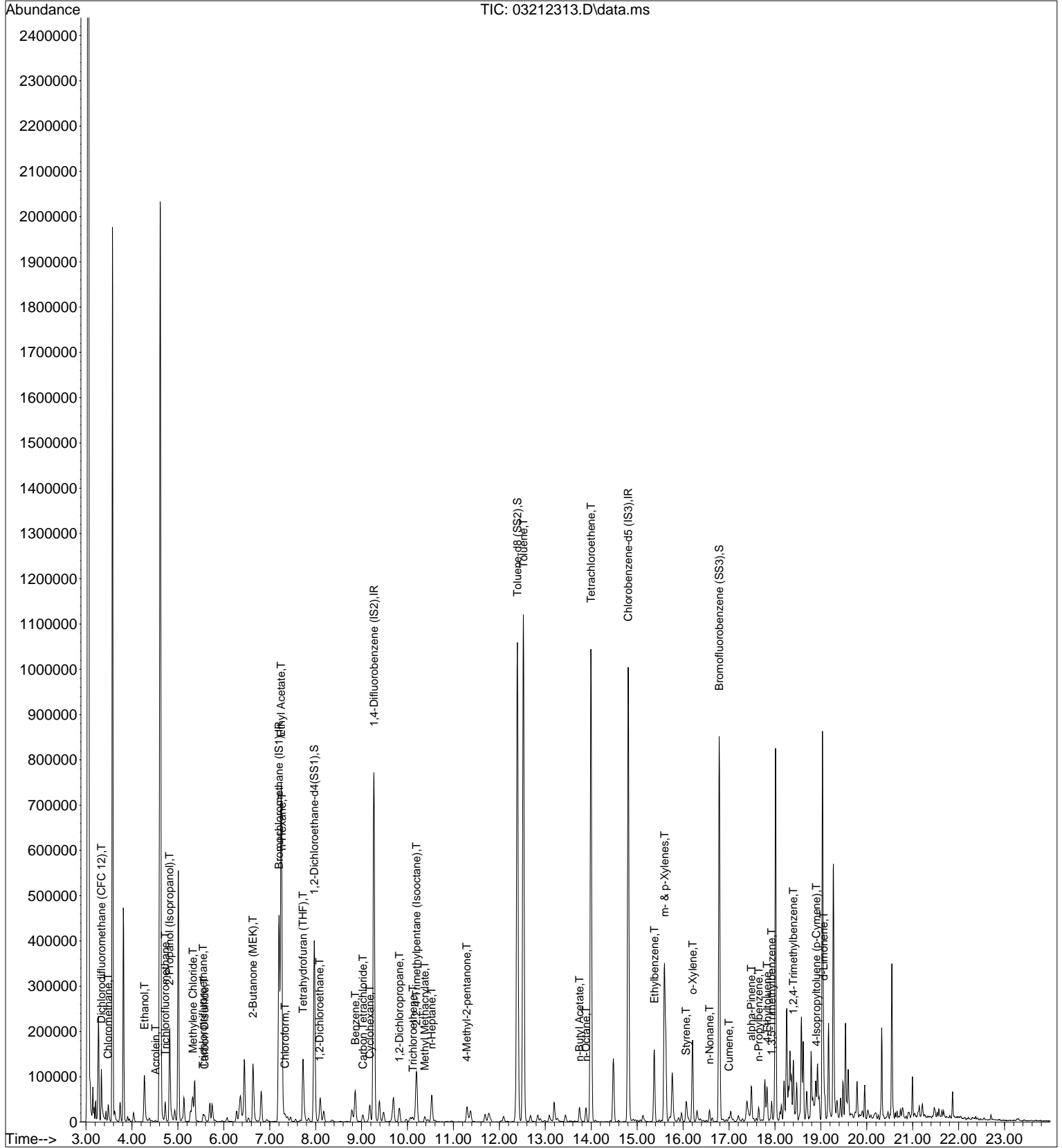
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.52	71	15015	0.953	ng	97
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.29	58	11489	0.742	ng	89
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.52	91	963445	14.351	ng	97
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	13.74	43	33973	0.724	ng	99
63) n-Octane	13.89	57	5861	0.400	ng	91
64) Tetrachloroethene	13.99	166	347055	14.994	ng	100
65) Chlorobenzene	14.86	112	345	N.D.		
66) Ethylbenzene	15.37	91	133375	1.732	ng	100
67) m- & p-Xylenes	15.60	91	345278	5.464	ng	97
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.07	104	21742	0.546	ng	97
70) o-Xylene	16.21	91	121250	1.947	ng	99
71) n-Nonane	16.58	43	12413	0.316	ng	97
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	17.00	105	8009	0.104	ng	99
75) alpha-Pinene	17.49	93	31242	0.966	ng	96
76) n-Propylbenzene	17.64	91	24509	0.267	ng	99
77) 3-Ethyltoluene	17.00	105	8009	No Calib		
78) 4-Ethyltoluene	17.83	105	28951	0.399	ng	96
79) 1,3,5-Trimethylbenzene	17.93	105	20098	0.308	ng	99
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.00	105	8009	No Calib		
82) 1,2,4-Trimethylbenzene	18.40	105	68335	1.032	ng	90
83) n-Decane	17.04	58	610	No Calib	#	
84) Benzyl Chloride	18.55	91	228	N.D.		
85) 1,3-Dichlorobenzene	18.55	146	630	N.D.		
86) 1,4-Dichlorobenzene	18.63	146	224	N.D.		
87) sec-Butylbenzene	18.71	105	2022	N.D.		
88) 4-Isopropyltoluene (p-...	18.90	119	11589	0.154	ng	83
89) 1,2,3-Trimethylbenzene	17.00	105	8009	No Calib		
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	19.06	68	30497	1.375	ng	98
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.08	58	699	No Calib	#	
94) 1,2,4-Trichlorobenzene	20.82	180	451	N.D.		
95) Naphthalene	20.93	128	2156	N.D.		
96) n-Dodecane	19.04	58	20893	No Calib	#	
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	15.20	55	692	No Calib	#	
99) tert-Butylbenzene	0.00	119	0	N.D.	d	
100) n-Butylbenzene	19.36	91	3832	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\21\03212313.D
Acq On : 21 Mar 2023 11:44
Sample : P2301184-003 (1000ml)
Misc : S35-02212305

Vial: 6
Operator: WA/SR
Inst : MS09

Quant Time: Mar 21 21:21:03 2023
Quant Method : I:\MS09\METHODS\R9022723.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Feb 28 08:30:18 2023
Response via : Initial Calibration
DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2023 03\21\03212313.D
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 Sample : P2301184-003 (1000ml)
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 Operator: WA/SR
 Inst : MS09

MSA 3/21/23

Quant Time: Mar 21 21:21:03 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	7.20	130	165507	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.27	114	740889	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.81	54	165945	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.97	65	354056	12.636	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery	=	101.12%	
57) Toluene-d8 (SS2)	12.39	98	878106	13.926	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	111.44%	
73) Bromofluorobenzene (SS3)	16.79	174	268083	10.426	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	83.44%	

Target Compounds

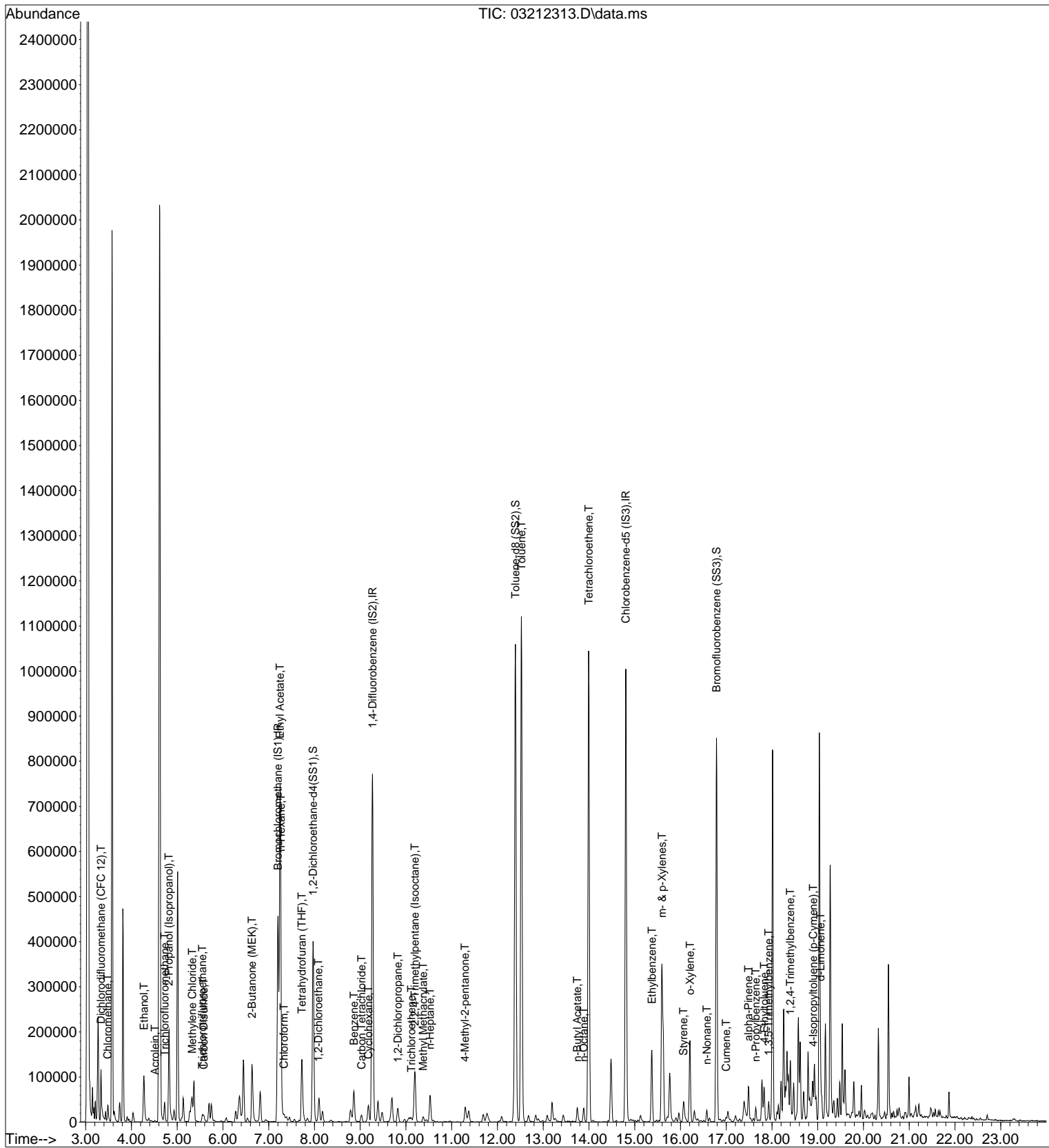
	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethan...	3.34	85	61214	1.602	ng	100
4) Chloromethane	3.48	50	2188	0.091	ng	82
10) Ethanol	4.27	45	135500	8.627	ng	99
12) Acrolein	4.52	56	2055	0.196	ng	97
14) Trichlorofluoromethane	4.73	101	28664	0.752	ng	100
15) 2-Propanol (Isopropanol)	4.82	45	214305	4.612	ng	96
19) Methylene Chloride	5.33	84	15087	0.960	ng	100
21) Trichlorotrifluoroethane	5.55	151	5037	0.292	ng	# 75
22) Carbon Disulfide	5.58	76	26884	0.470	ng	97
27) 2-Butanone (MEK)	6.63	72	37685	3.972	ng	# 88
30) Ethyl Acetate	7.25	61	121799	16.699	ng	96
31) n-Hexane	7.27	57	46392	1.532	ng	99
32) Chloroform	7.33	83	6550	0.197	ng	90
34) Tetrahydrofuran (THF)	7.73	72	35480	3.734	ng	95
36) 1,2-Dichloroethane	8.08	62	3721	0.129	ng	95
41) Benzene	8.86	78	66199	1.047	ng	100
42) Carbon Tetrachloride	9.03	117	9078	0.326	ng	100
43) Cyclohexane	9.18	84	14819	0.630	ng	98
45) 1,2-Dichloropropane	9.82	63	14292	0.802	ng	96
47) Trichloroethene	10.12	130	3774	0.204	ng	99
49) 2,2,4-Trimethylpentane...	10.20	57	127107	1.644	ng	98
50) Methyl Methacrylate	10.38	100	1754	0.294	ng	# 57
51) n-Heptane	10.52	71	15015	0.953	ng	97
53) 4-Methyl-2-pentanone	11.29	58	11489	0.742	ng	89
58) Toluene	12.52	91	963445	14.351	ng	97
62) n-Butyl Acetate	13.74	43	33973	0.724	ng	99
63) n-Octane	13.89	57	5861	0.400	ng	91
64) Tetrachloroethene	13.99	166	347055	14.994	ng	100
66) Ethylbenzene	15.37	91	133375	1.732	ng	100
67) m- & p-Xylenes	15.60	91	345278	5.464	ng	97
69) Styrene	16.07	104	21742	0.546	ng	97
70) o-Xylene	16.21	91	121250	1.947	ng	99
71) n-Nonane	16.58	43	12413	0.316	ng	97
74) Cumene	17.00	105	8009	0.104	ng	99
75) alpha-Pinene	17.49	93	31242	0.966	ng	96
76) n-Propylbenzene	17.64	91	24509	0.267	ng	99
78) 4-Ethyltoluene	17.83	105	28951	0.399	ng	96
79) 1,3,5-Trimethylbenzene	17.93	105	20098	0.308	ng	99
82) 1,2,4-Trimethylbenzene	18.40	105	68335	1.032	ng	90
88) 4-Isopropyltoluene (p-...	18.90	119	11589	0.154	ng	83
91) d-Limonene	19.06	68	30497	1.375	ng	98

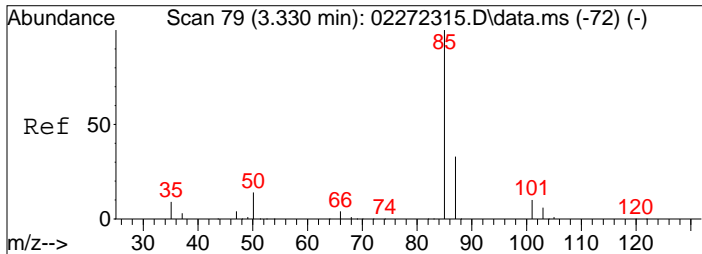
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS09\DATA\2023 03\21\03212313.D
Acq On : 21 Mar 2023 11:44
Sample : P2301184-003 (1000ml)
Misc : S35-02212305

Vial: 6
Operator: WA/SR
Inst : MS09

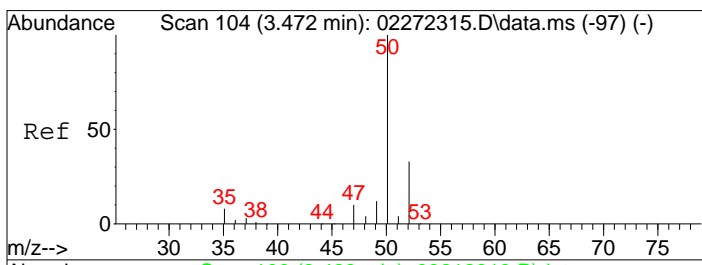
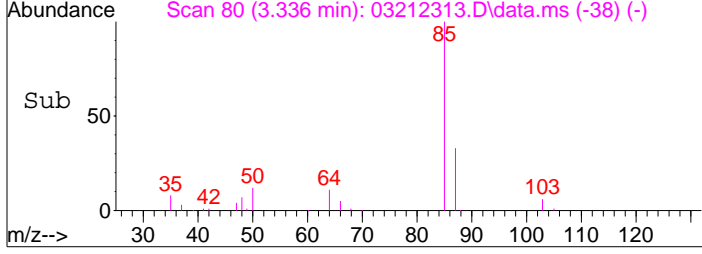
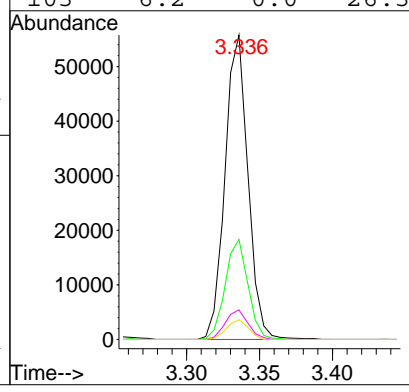
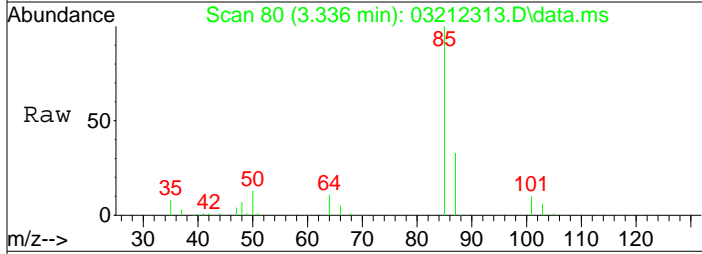
Quant Time: Mar 21 21:21:03 2023
Quant Method : I:\MS09\METHODS\R9022723.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Feb 28 08:30:18 2023
Response via : Initial Calibration
DataAcq Meth:TO15.M





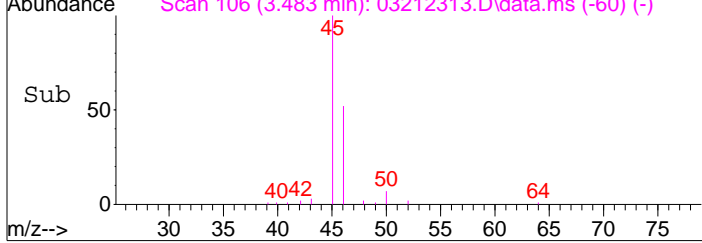
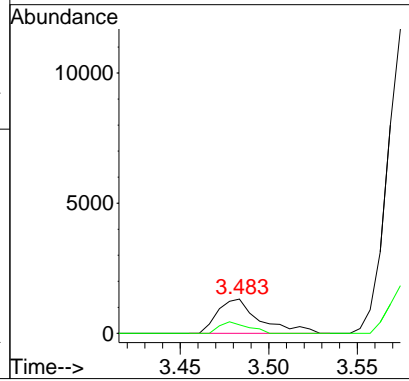
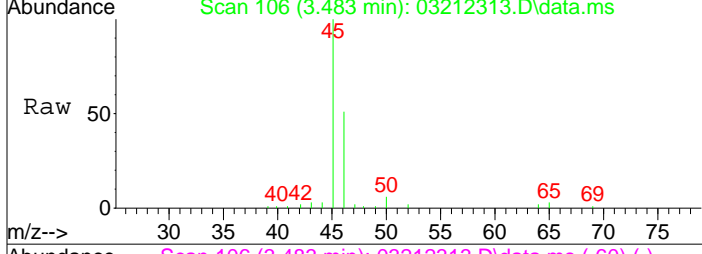
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.60 ng
 RT: 3.34 min Scan# 80
 Delta R.T. -0.014 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

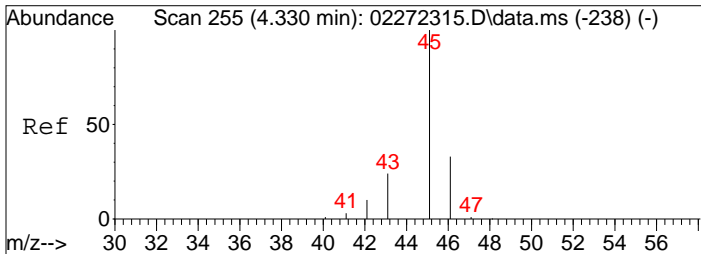
Tgt Ion	Resp	Lower	Upper
85	61214		
87	32.6	12.3	52.3
101	9.6	0.0	29.7
103	6.2	0.0	26.3



#4
 Chloromethane
 Concen: 0.09 ng
 RT: 3.48 min Scan# 106
 Delta R.T. 0.011 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

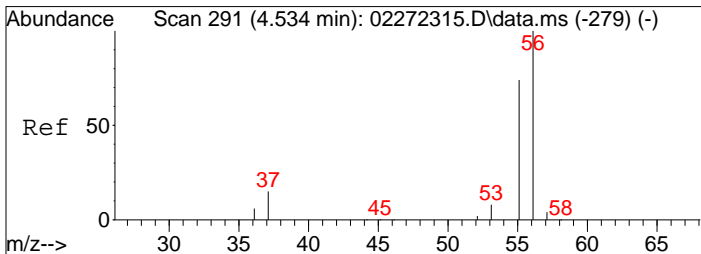
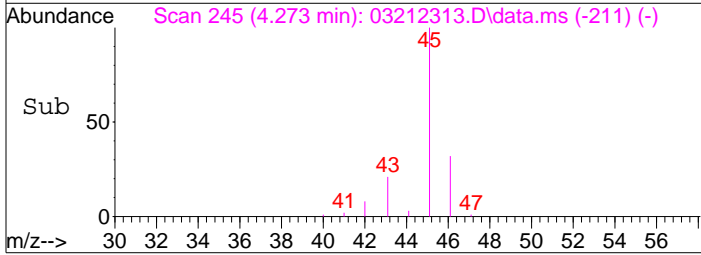
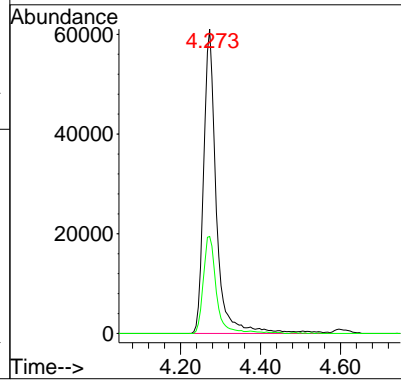
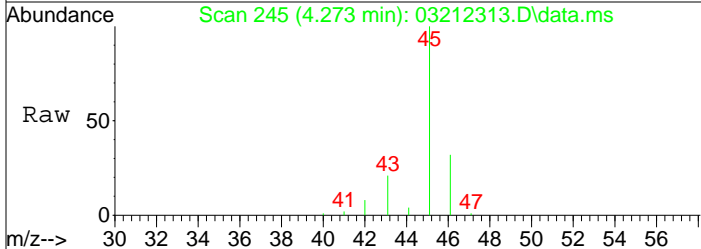
Tgt Ion	Resp	Lower	Upper
50	2188		
52	22.7	12.8	52.8





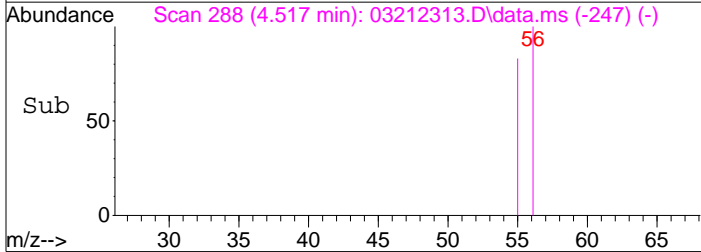
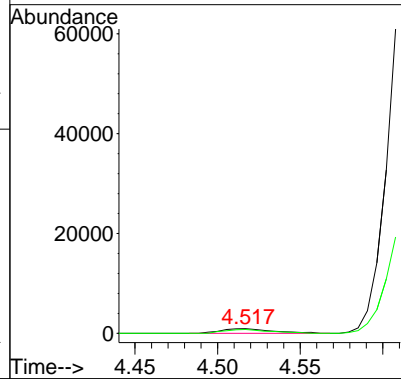
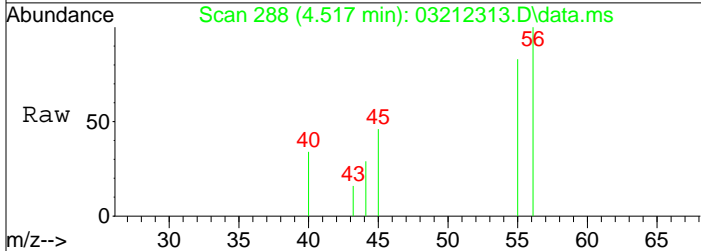
#10
 Ethanol
 Concen: 8.63 ng
 RT: 4.27 min Scan# 245
 Delta R.T. -0.057 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

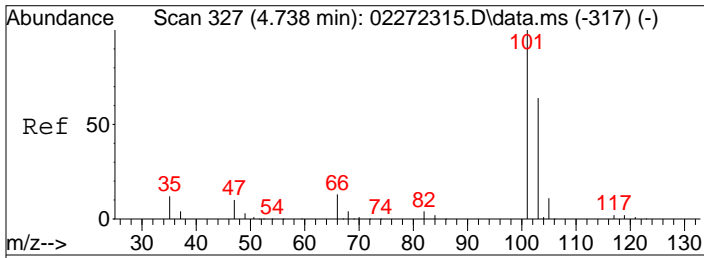
Tgt Ion	Resp	Lower	Upper
45	100		
46	33.1	13.4	53.4



#12
 Acrolein
 Concen: 0.20 ng
 RT: 4.52 min Scan# 288
 Delta R.T. -0.017 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

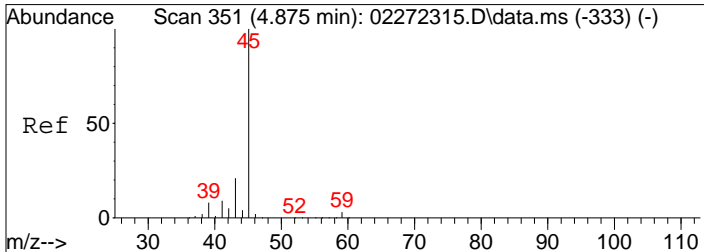
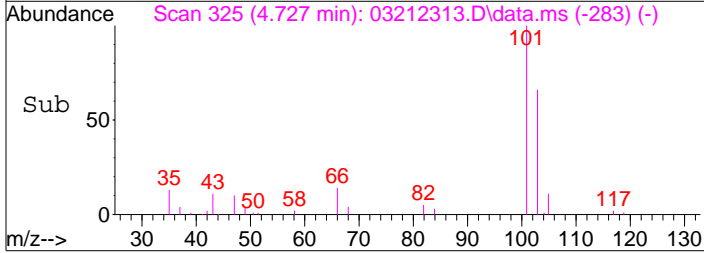
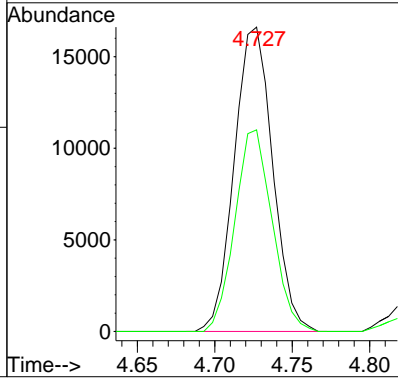
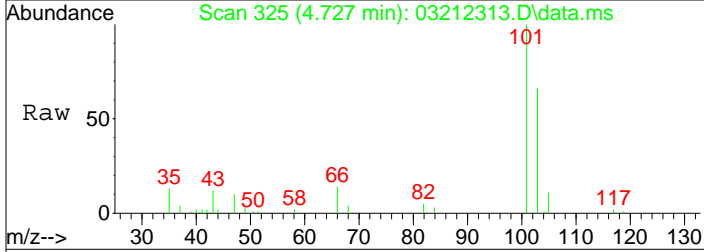
Tgt Ion	Resp	Lower	Upper
56	100		
55	74.2	56.4	96.4





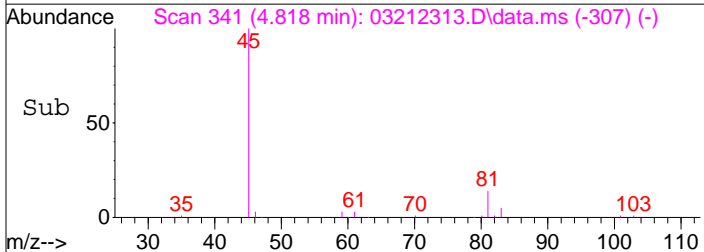
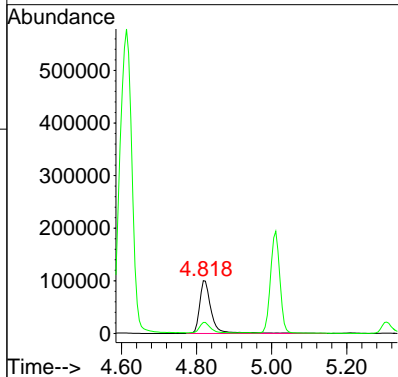
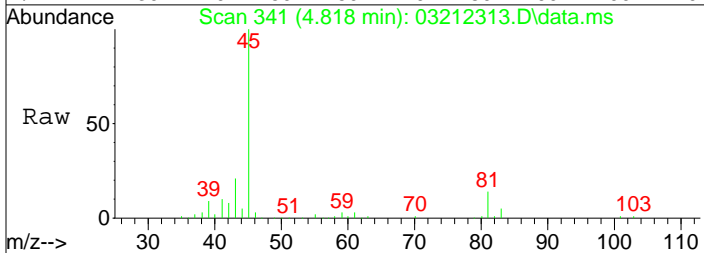
#14
 Trichlorofluoromethane
 Concen: 0.75 ng
 RT: 4.73 min Scan# 325
 Delta R.T. -0.011 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

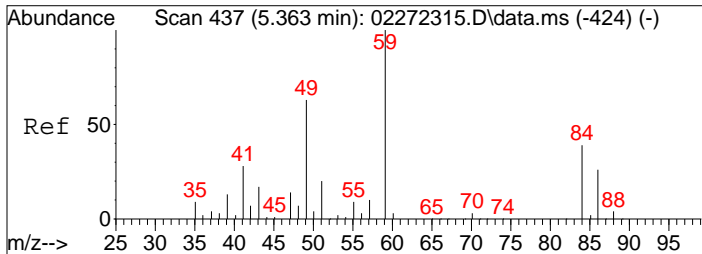
Tgt Ion: 101 Resp: 28664
 Ion Ratio Lower Upper
 101 100
 103 64.2 44.0 84.0



#15
 2-Propanol (Isopropanol)
 Concen: 4.61 ng
 RT: 4.82 min Scan# 341
 Delta R.T. -0.057 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

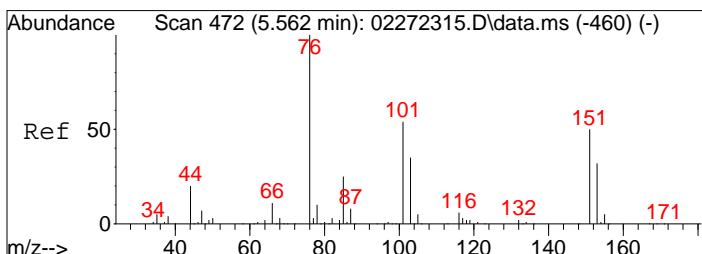
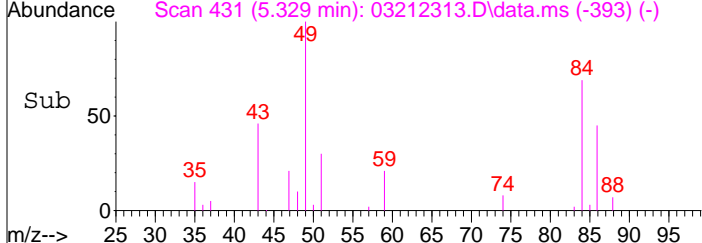
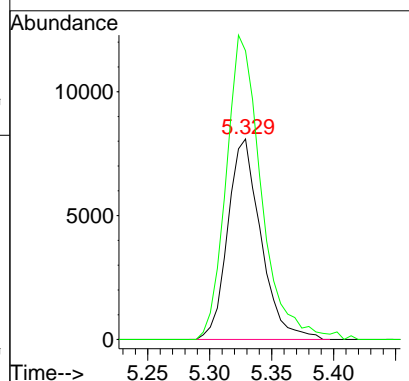
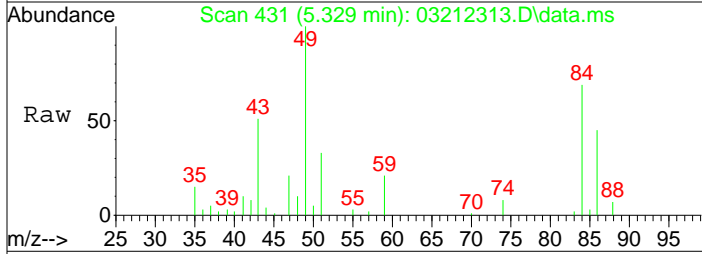
Tgt Ion: 45 Resp: 214305
 Ion Ratio Lower Upper
 45 100
 43 19.8 1.6 41.6





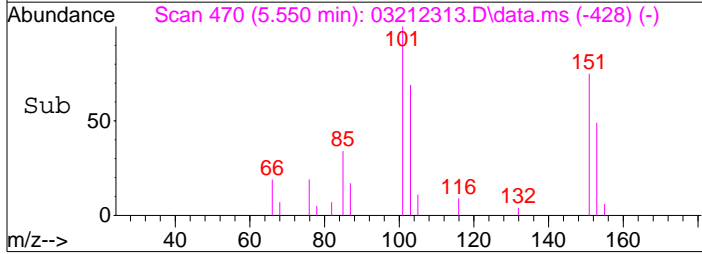
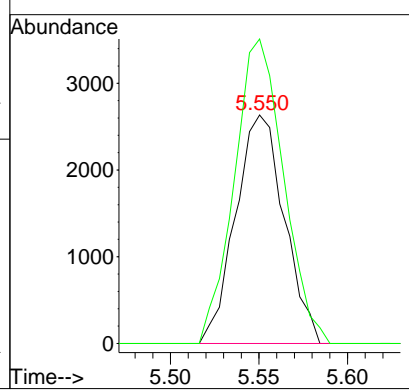
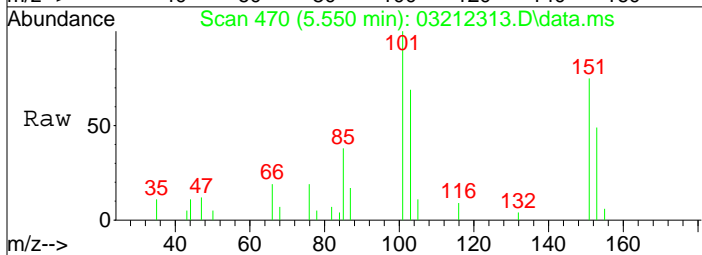
#19
 Methylene Chloride
 Concen: 0.96 ng
 RT: 5.33 min Scan# 431
 Delta R.T. -0.034 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

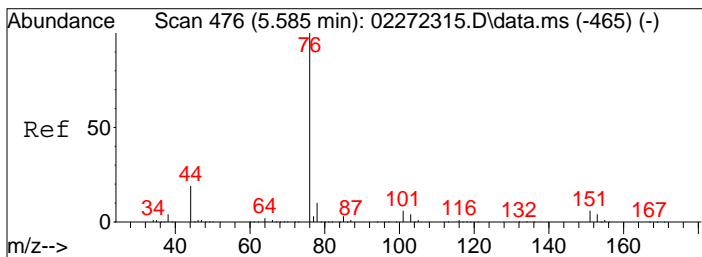
Tgt Ion	Resp	Lower	Upper
84	15087		
84	100		
49	161.2	136.0	186.0



#21
 Trichlorotrifluoroethane
 Concen: 0.29 ng
 RT: 5.55 min Scan# 470
 Delta R.T. -0.012 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

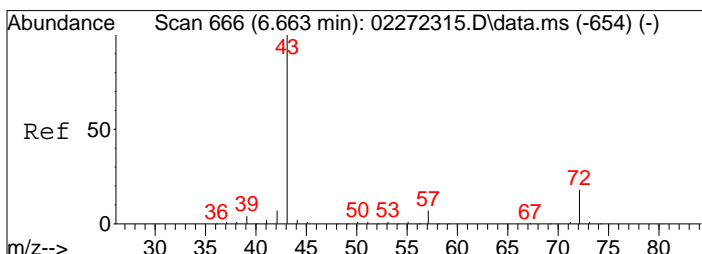
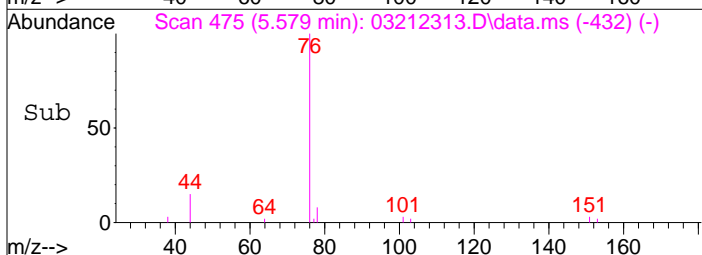
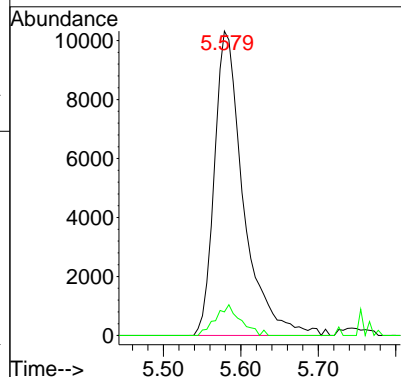
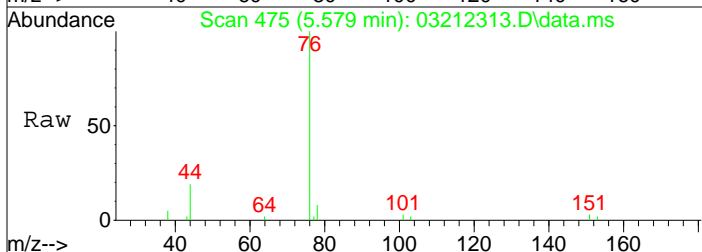
Tgt Ion	Resp	Lower	Upper
151	5037		
151	100		
101	134.8	88.2	128.2#





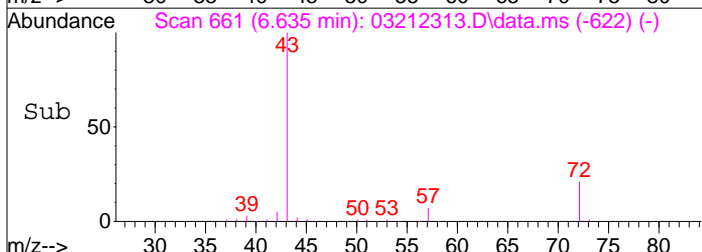
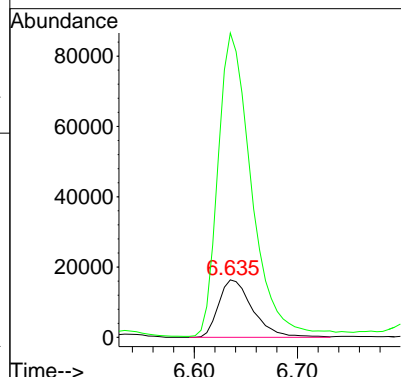
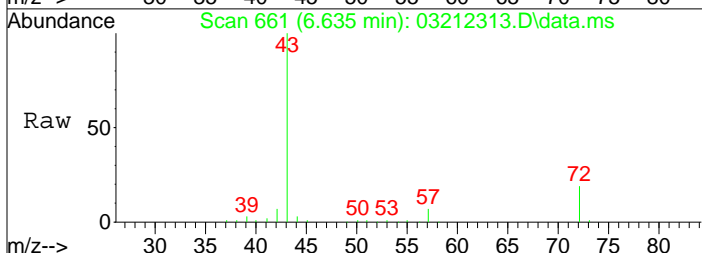
#22
 Carbon Disulfide
 Concen: 0.47 ng
 RT: 5.58 min Scan# 475
 Delta R.T. -0.006 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

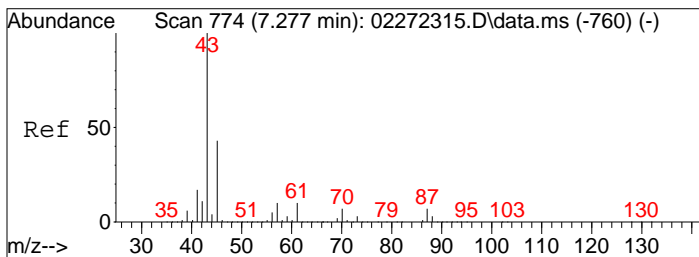
Tgt Ion	Resp	Lower	Upper
76	100		
78	8.7	0.0	29.7



#27
 2-Butanone (MEK)
 Concen: 3.97 ng
 RT: 6.63 min Scan# 661
 Delta R.T. -0.029 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

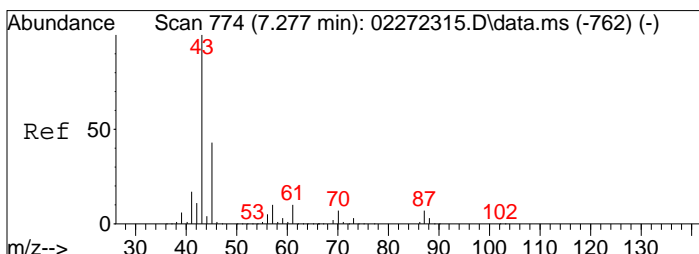
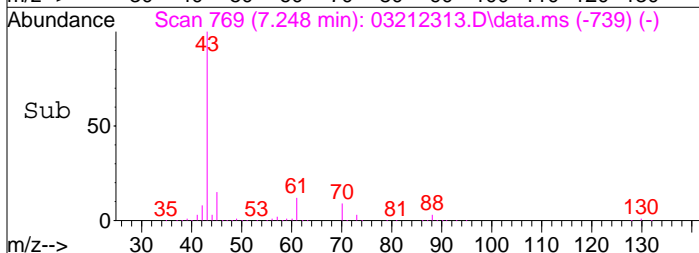
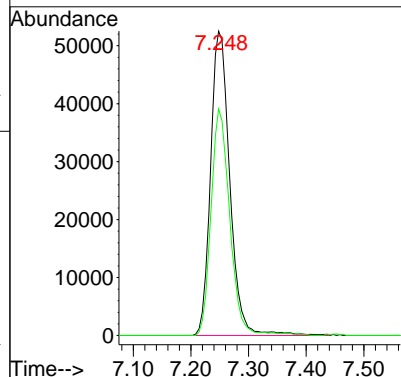
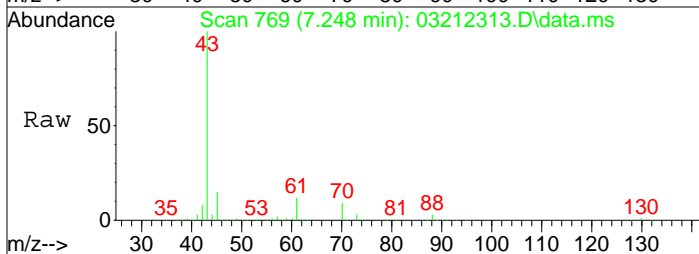
Tgt Ion	Resp	Lower	Upper
72	100		
43	519.5	536.0	576.0#





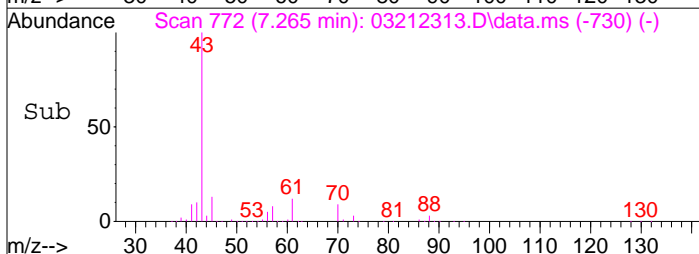
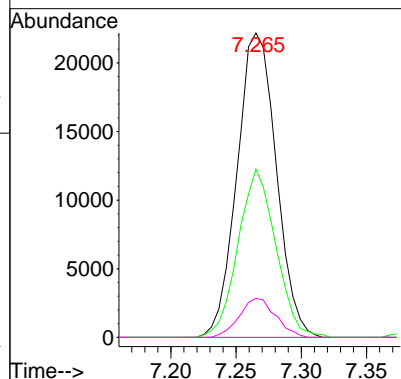
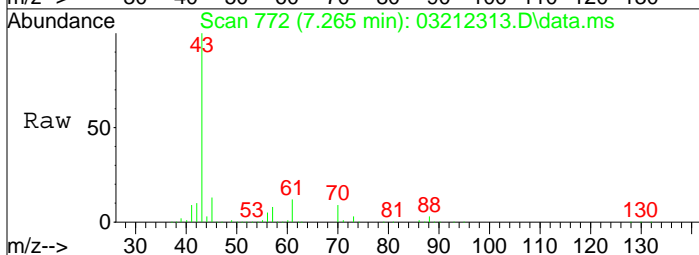
#30
Ethyl Acetate
Concen: 16.70 ng
RT: 7.25 min Scan# 769
Delta R.T. -0.029 min
Lab File: 03212313.D
Acq: 21 Mar 2023 11:44

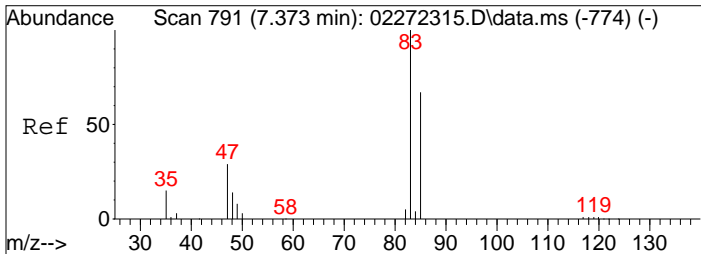
Tgt Ion	Resp	Lower	Upper
61	121799		
61	100		
70	72.7	55.8	95.8



#31
n-Hexane
Concen: 1.53 ng
RT: 7.27 min Scan# 772
Delta R.T. -0.011 min
Lab File: 03212313.D
Acq: 21 Mar 2023 11:44

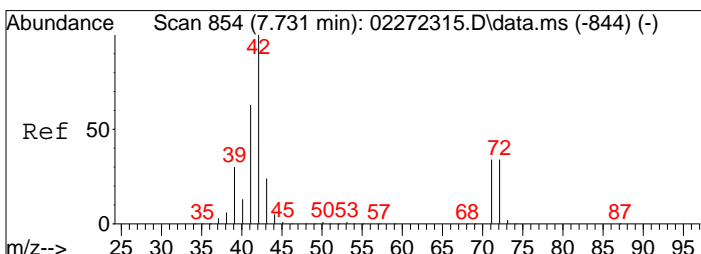
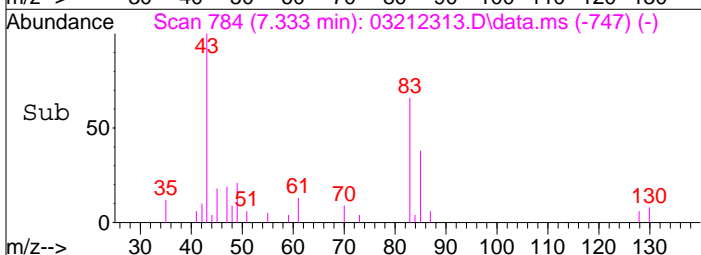
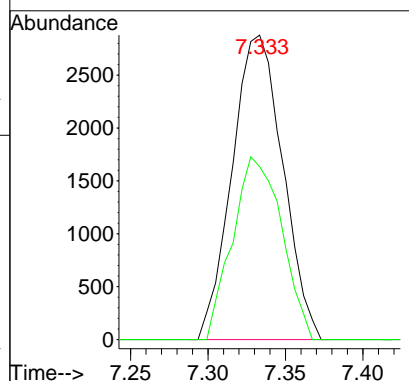
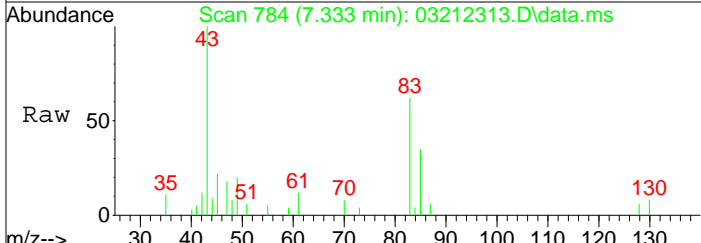
Tgt Ion	Resp	Lower	Upper
57	46392		
57	100		
56	53.2	43.3	64.9
86	11.9	10.2	15.2





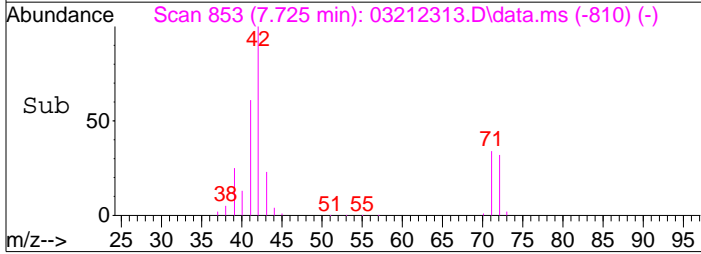
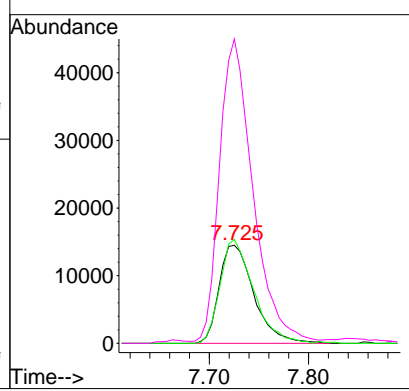
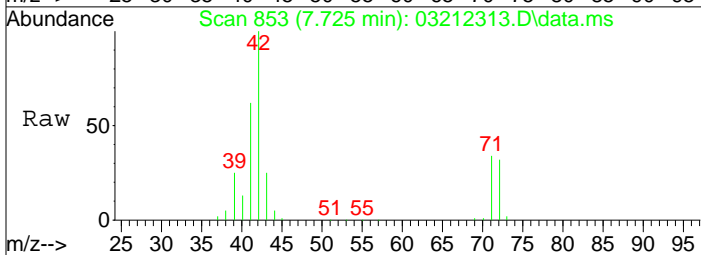
#32
 Chloroform
 Concen: 0.20 ng
 RT: 7.33 min Scan# 784
 Delta R.T. -0.040 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

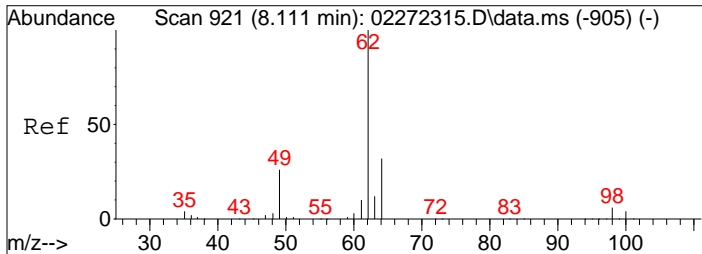
Tgt Ion	Resp	Lower	Upper
83	100		
85	58.1	46.3	86.3



#34
 Tetrahydrofuran (THF)
 Concen: 3.73 ng
 RT: 7.73 min Scan# 853
 Delta R.T. -0.006 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

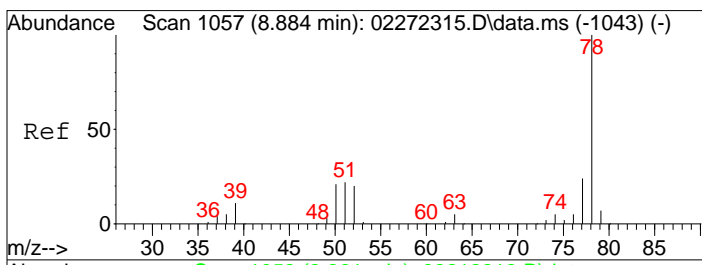
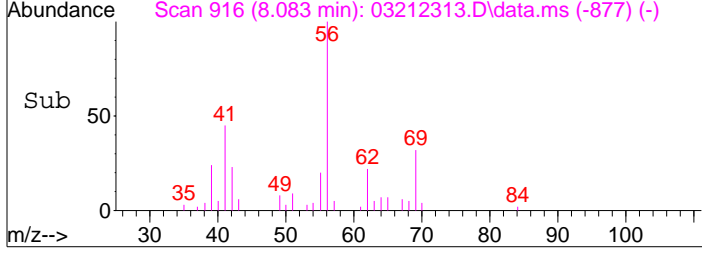
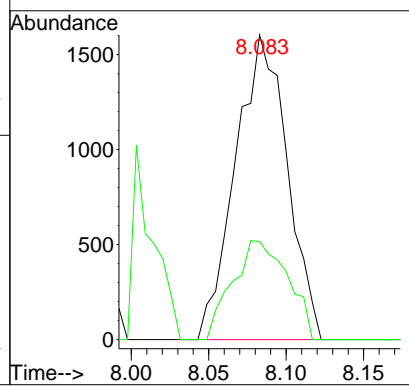
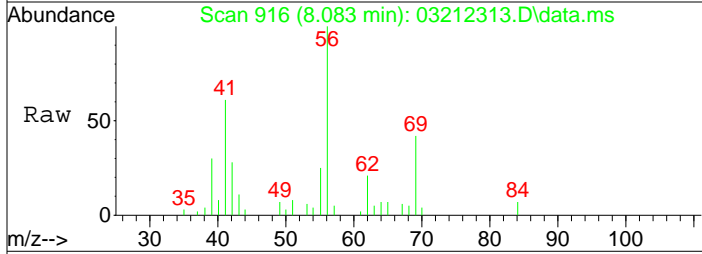
Tgt Ion	Resp	Lower	Upper
72	100		
71	101.4	81.3	121.3
42	299.8	293.7	333.7





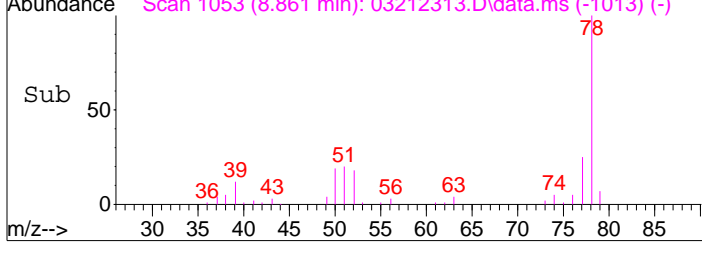
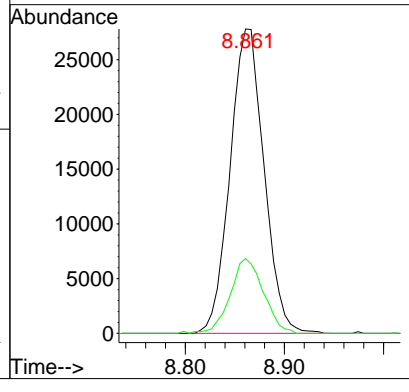
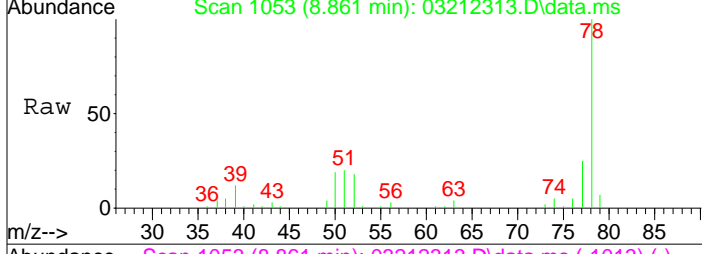
#36
 1,2-Dichloroethane
 Concen: 0.13 ng
 RT: 8.08 min Scan# 916
 Delta R.T. -0.029 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

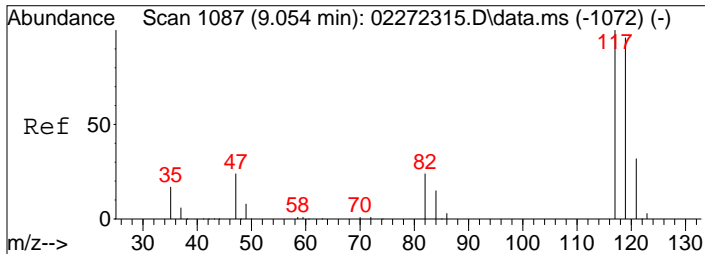
Tgt Ion	Resp	Lower	Upper
62	100		
64	34.6	12.0	52.0



#41
 Benzene
 Concen: 1.05 ng
 RT: 8.86 min Scan# 1053
 Delta R.T. -0.023 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

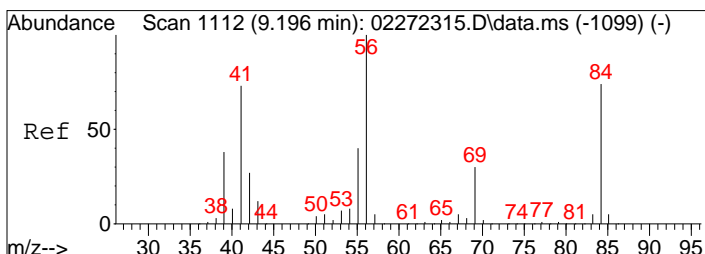
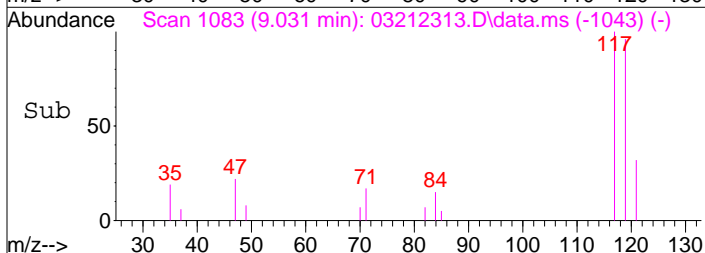
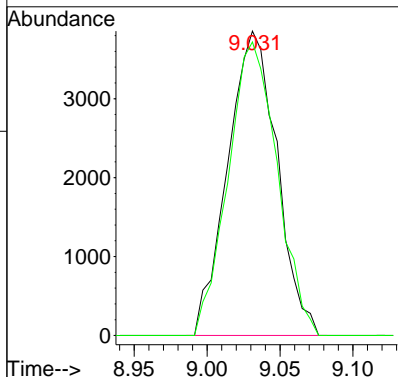
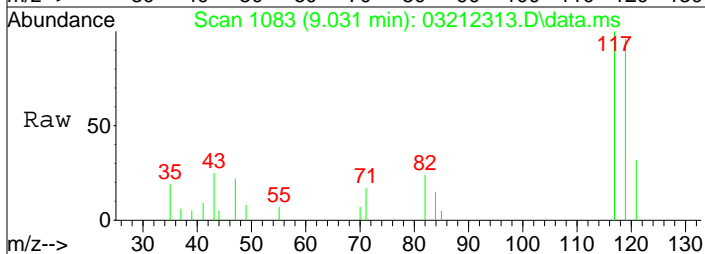
Tgt Ion	Resp	Lower	Upper
78	100		
77	24.0	4.0	44.0





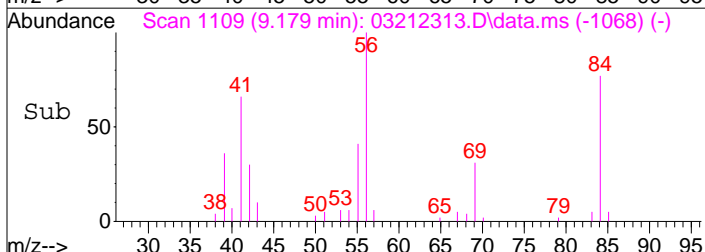
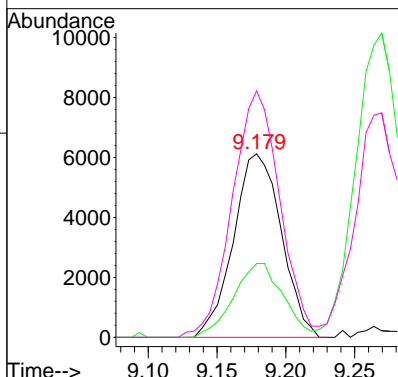
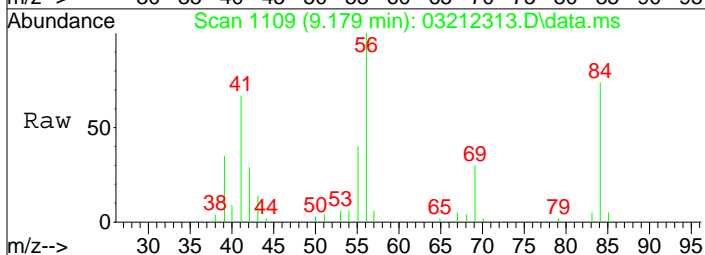
#42
 Carbon Tetrachloride
 Concen: 0.33 ng
 RT: 9.03 min Scan# 1083
 Delta R.T. -0.023 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

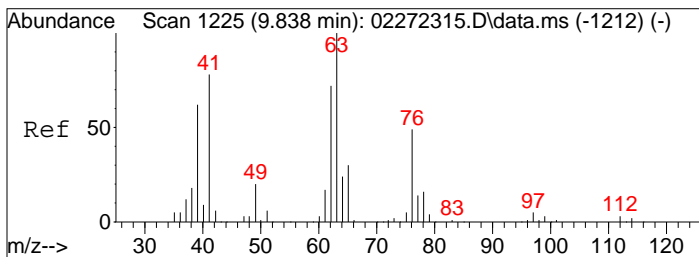
Tgt Ion: 117 Resp: 9078
 Ion Ratio Lower Upper
 117 100
 119 95.9 75.5 115.5



#43
 Cyclohexane
 Concen: 0.63 ng
 RT: 9.18 min Scan# 1109
 Delta R.T. -0.017 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

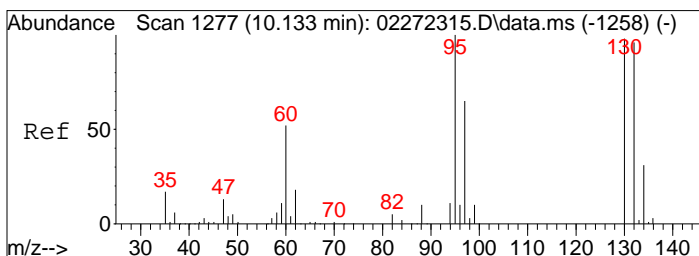
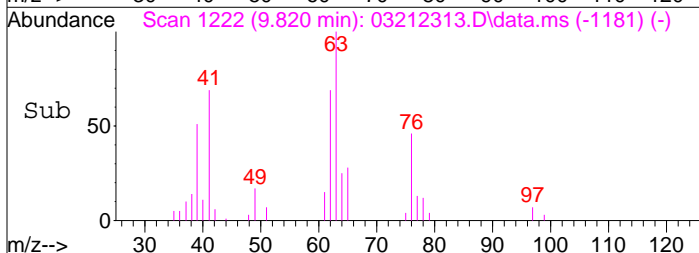
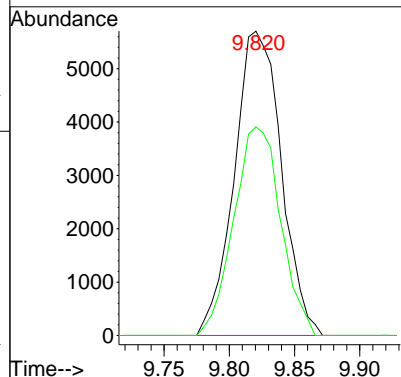
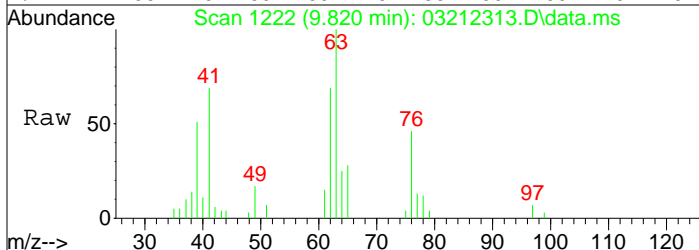
Tgt Ion: 84 Resp: 14819
 Ion Ratio Lower Upper
 84 100
 69 41.4 20.6 60.6
 56 134.0 116.1 156.1





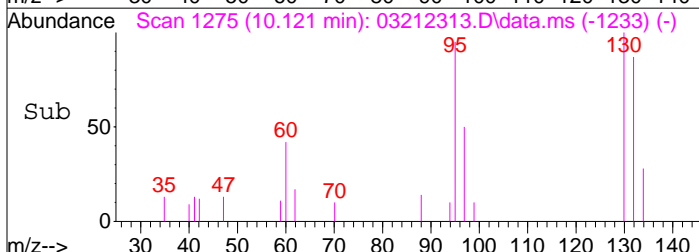
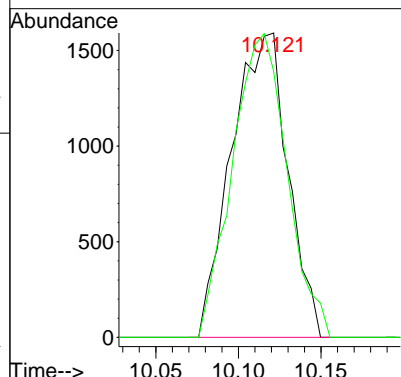
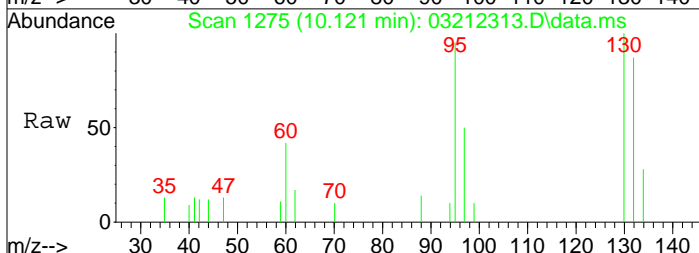
#45
 1,2-Dichloropropane
 Concen: 0.80 ng
 RT: 9.82 min Scan# 1222
 Delta R.T. -0.017 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

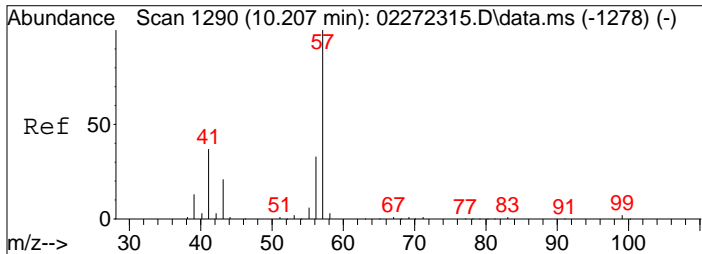
Tgt Ion: 63 Resp: 14292
 Ion Ratio Lower Upper
 63 100
 62 68.4 52.1 92.1



#47
 Trichloroethene
 Concen: 0.20 ng
 RT: 10.12 min Scan# 1275
 Delta R.T. -0.011 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

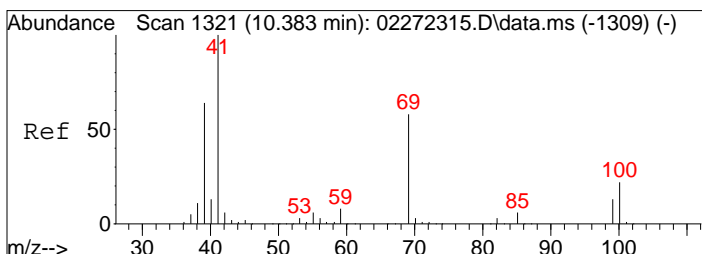
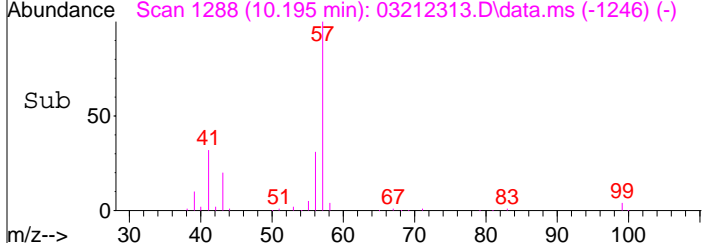
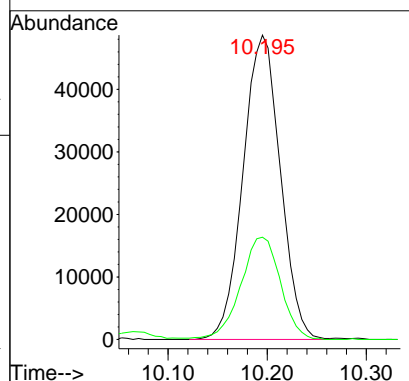
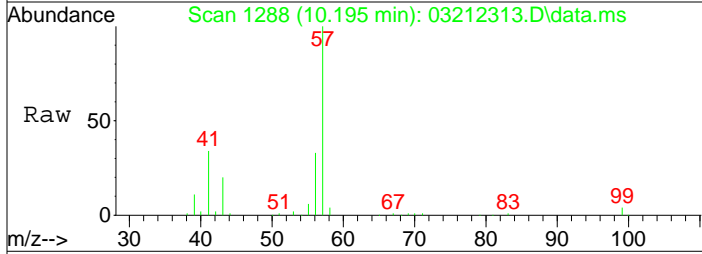
Tgt Ion: 130 Resp: 3774
 Ion Ratio Lower Upper
 130 100
 132 96.9 77.9 117.9





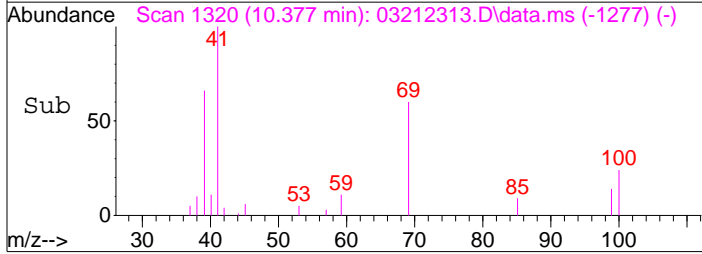
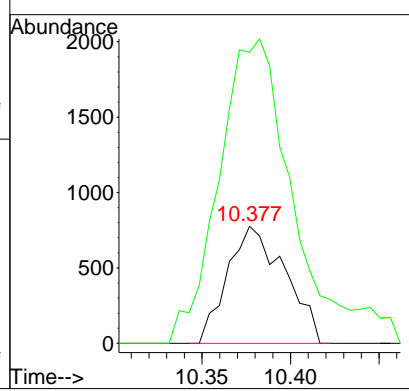
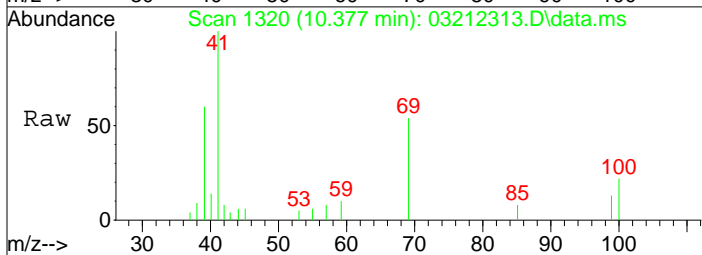
#49
 2,2,4-Trimethylpentane (Isooctane)
 Concen: 1.64 ng
 RT: 10.20 min Scan# 1288
 Delta R.T. -0.011 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

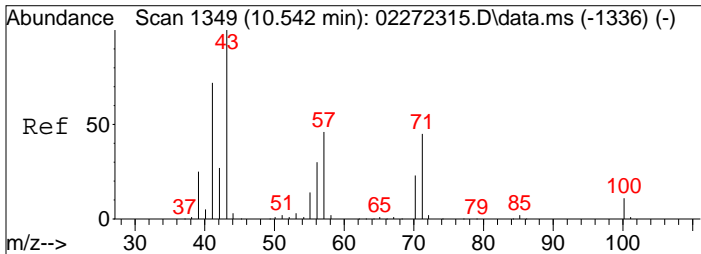
Tgt Ion	Resp	Lower	Upper
57	100		
41	35.9	17.1	57.1



#50
 Methyl Methacrylate
 Concen: 0.29 ng
 RT: 10.38 min Scan# 1320
 Delta R.T. -0.006 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

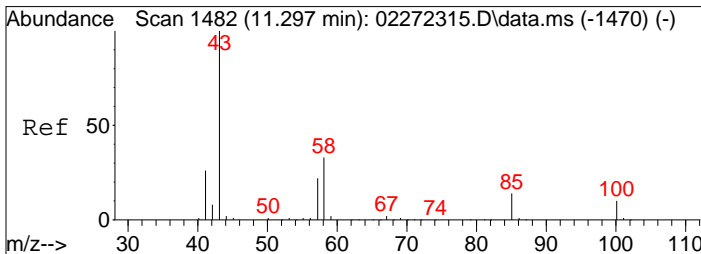
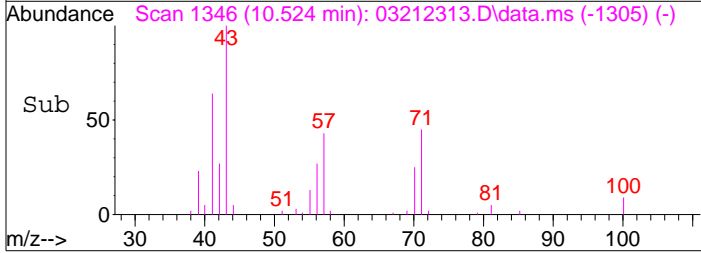
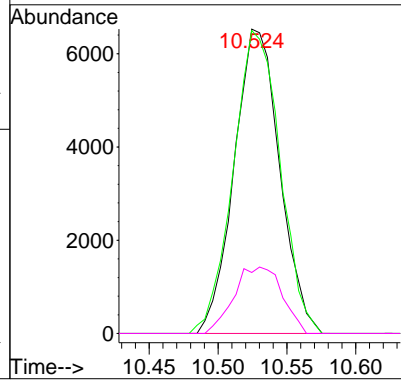
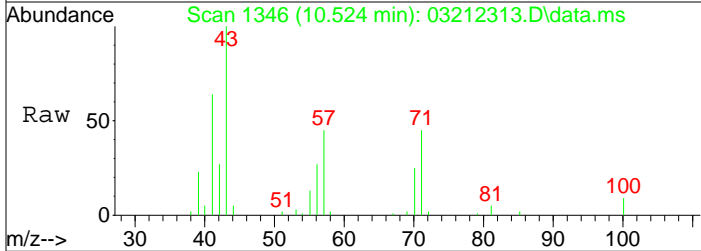
Tgt Ion	Resp	Lower	Upper
100	100		
69	338.7	241.7	281.7#





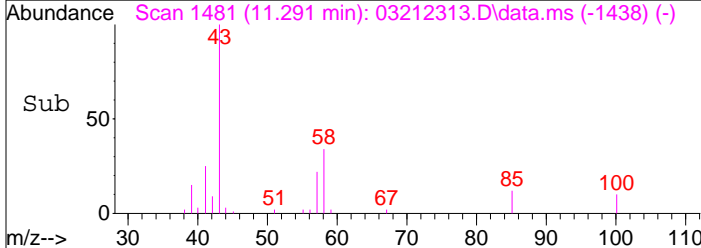
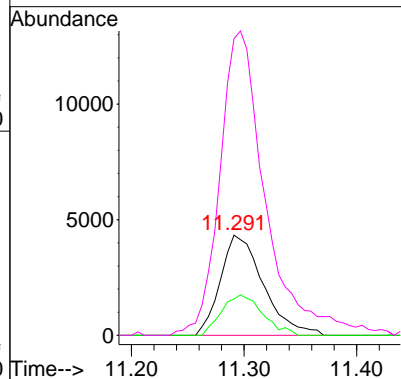
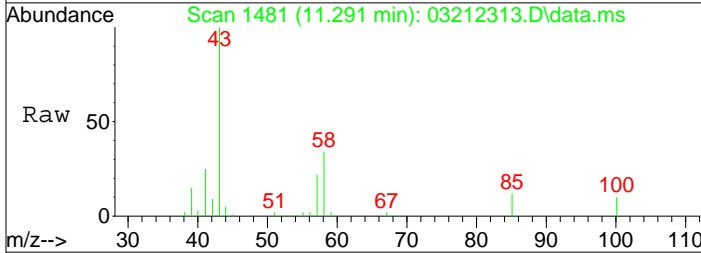
#51
 n-Heptane
 Concen: 0.95 ng
 RT: 10.52 min Scan# 1346
 Delta R.T. -0.017 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

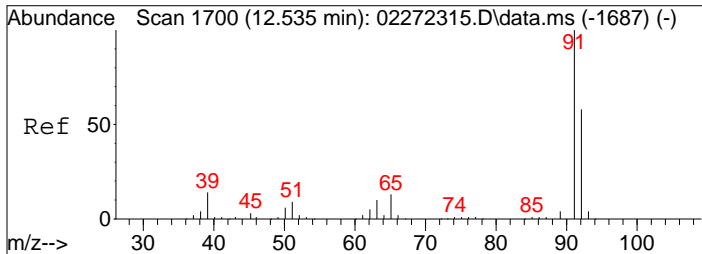
Tgt Ion	Resp	Lower	Upper
71	15015		
71	100		
57	102.4	84.6	124.6
100	23.1	5.8	45.8



#53
 4-Methyl-2-pentanone
 Concen: 0.74 ng
 RT: 11.29 min Scan# 1481
 Delta R.T. -0.006 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

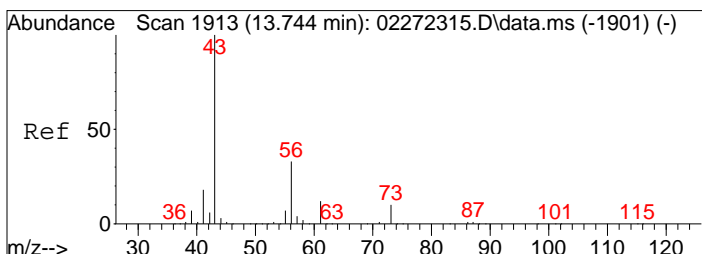
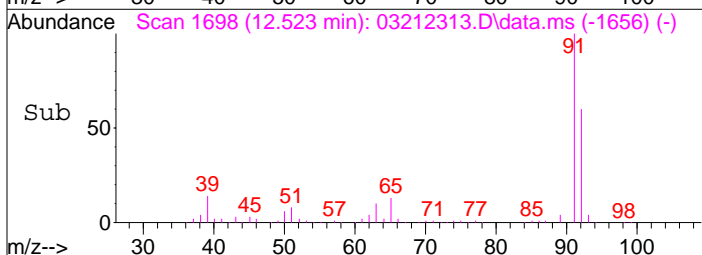
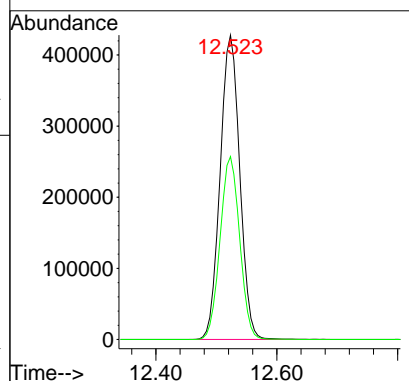
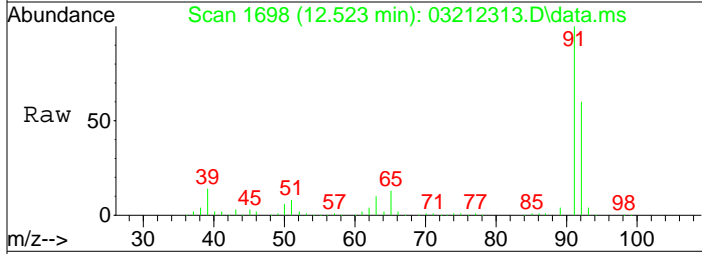
Tgt Ion	Resp	Lower	Upper
58	11489		
58	100		
85	38.7	35.7	53.5
43	324.8	242.9	364.3





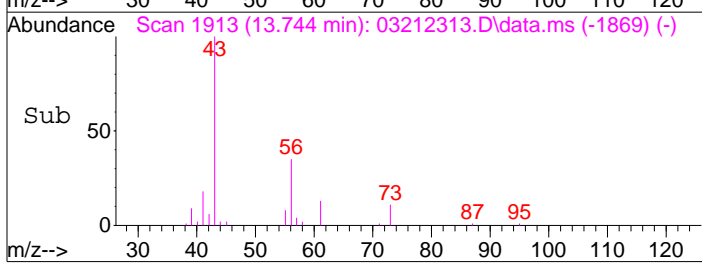
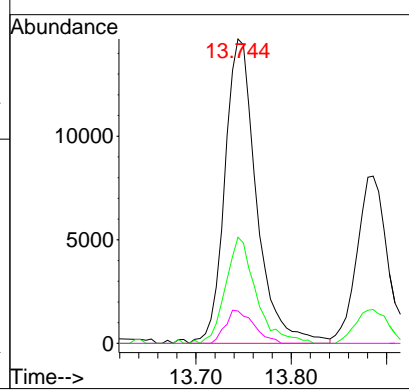
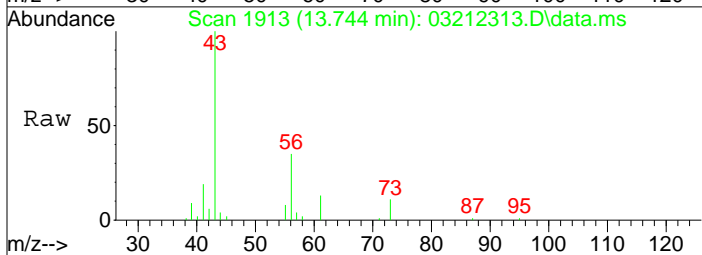
#58
 Toluene
 Concen: 14.35 ng
 RT: 12.52 min Scan# 1698
 Delta R.T. -0.012 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

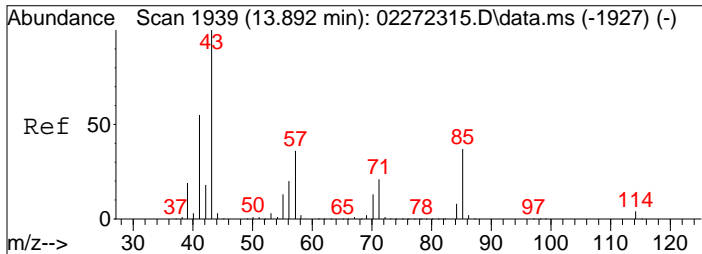
Tgt Ion	Resp	Lower	Upper
91	100		
92	60.0	37.6	77.6



#62
 n-Butyl Acetate
 Concen: 0.72 ng
 RT: 13.74 min Scan# 1913
 Delta R.T. -0.000 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

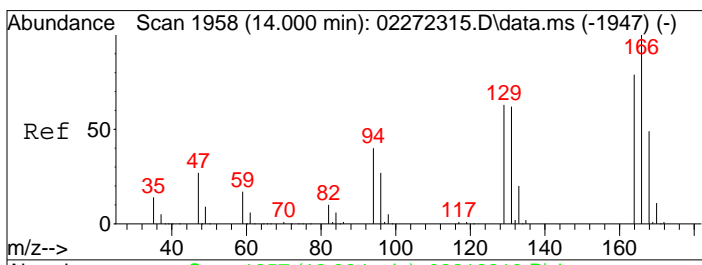
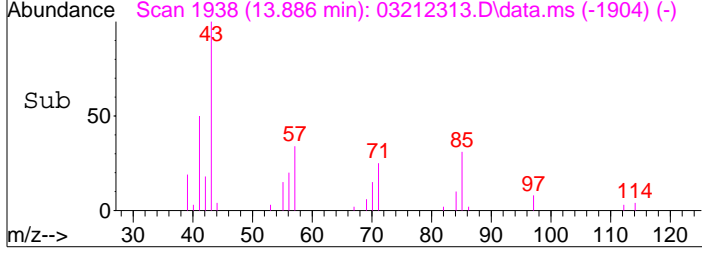
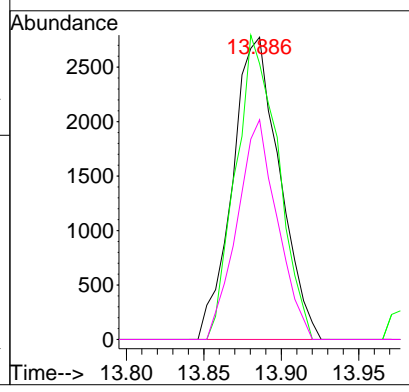
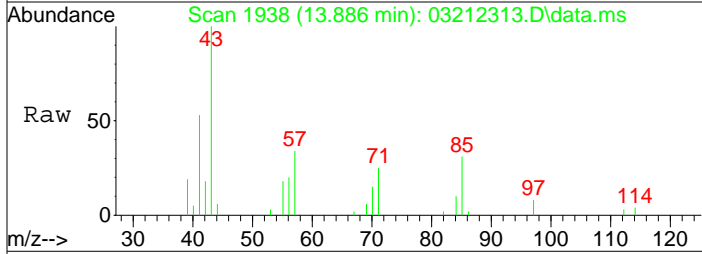
Tgt Ion	Resp	Lower	Upper
43	100		
56	33.5	13.1	53.1
73	9.8	0.0	29.9





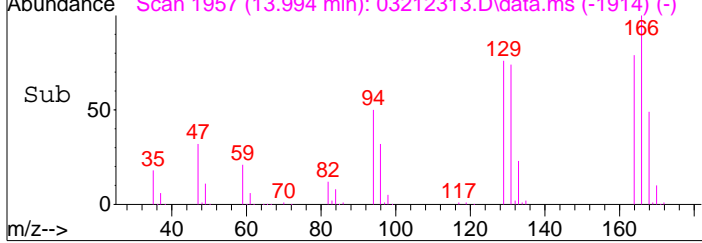
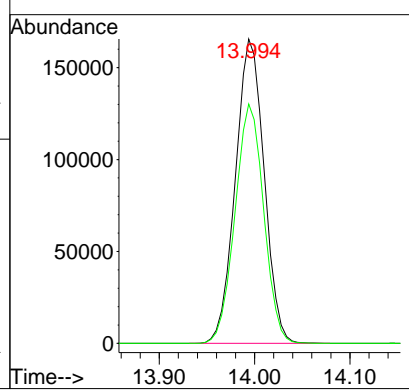
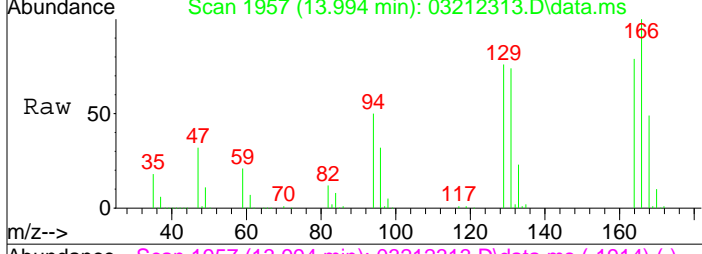
#63
 n-Octane
 Concen: 0.40 ng
 RT: 13.89 min Scan# 1938
 Delta R.T. -0.006 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

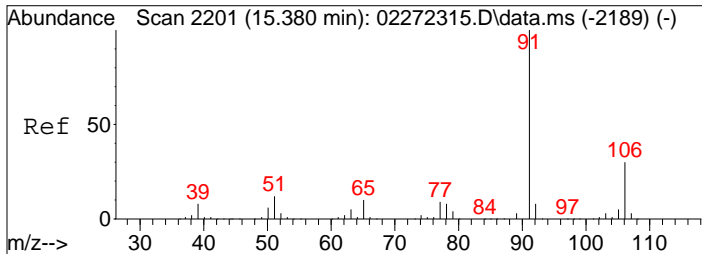
Tgt Ion:	Resp:	Lower	Upper
57	5861		
57	100		
85	90.8	82.4	123.6
71	62.3	47.8	71.6



#64
 Tetrachloroethene
 Concen: 14.99 ng
 RT: 13.99 min Scan# 1957
 Delta R.T. -0.006 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

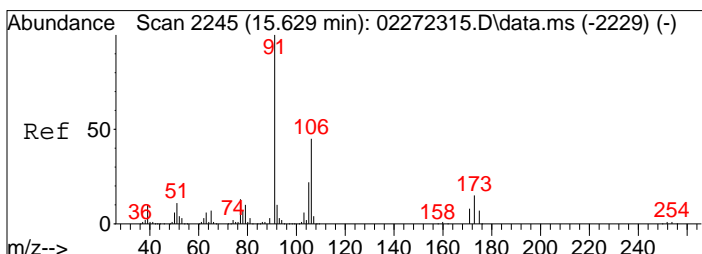
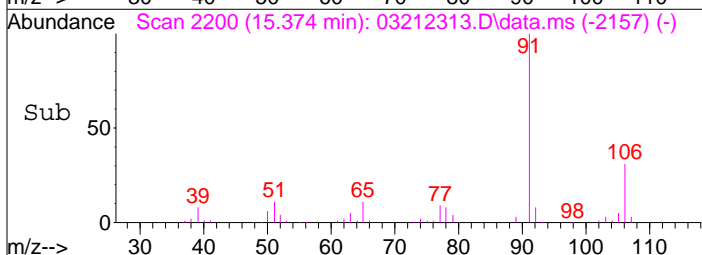
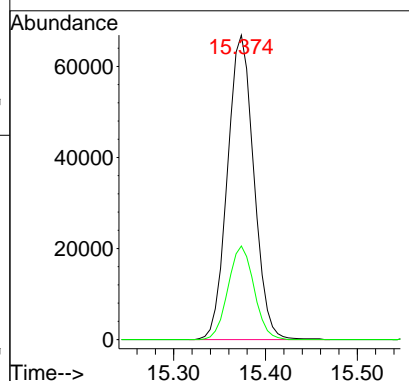
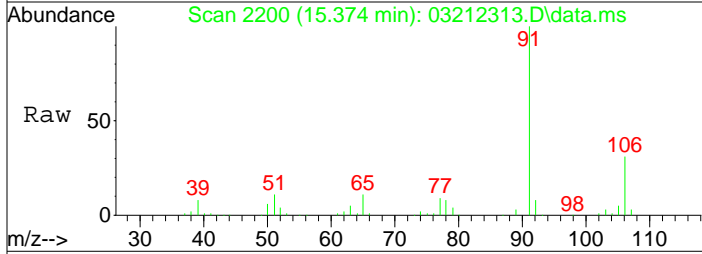
Tgt Ion:	Resp:	Lower	Upper
166	347055		
166	100		
164	78.4	58.6	98.6





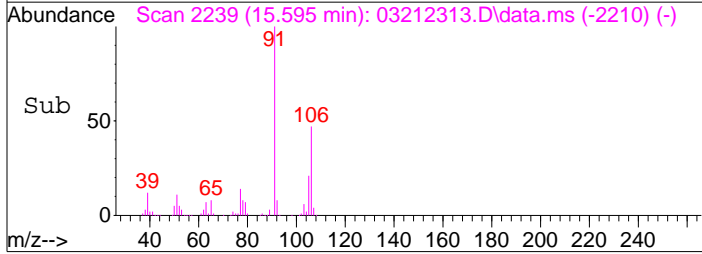
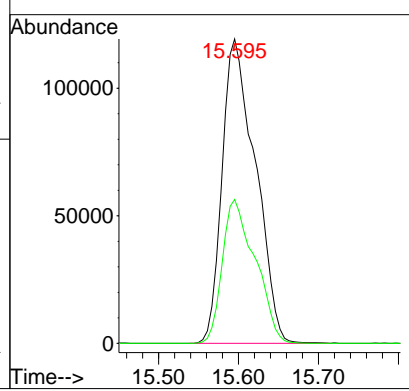
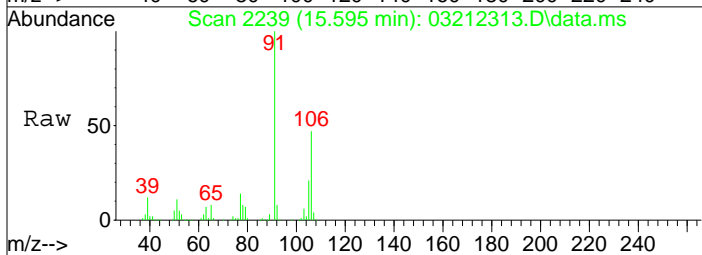
#66
 Ethylbenzene
 Concen: 1.73 ng
 RT: 15.37 min Scan# 2200
 Delta R.T. -0.006 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

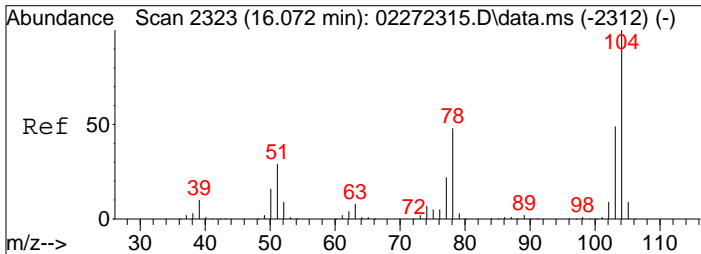
Tgt Ion	Resp	Lower	Upper
91	133375	100	
106	30.1	10.3	50.3



#67
 m- & p-Xylenes
 Concen: 5.46 ng
 RT: 15.60 min Scan# 2239
 Delta R.T. -0.034 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

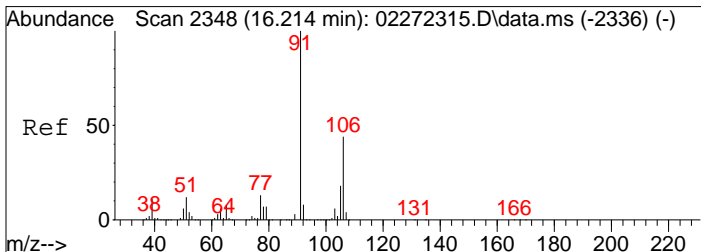
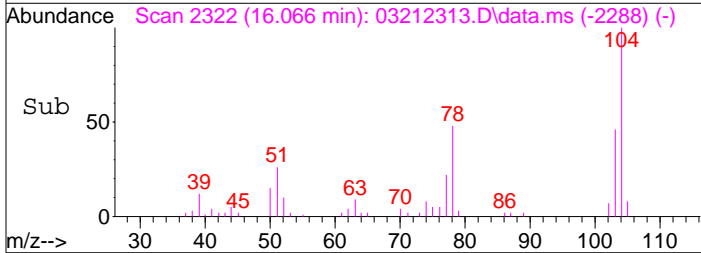
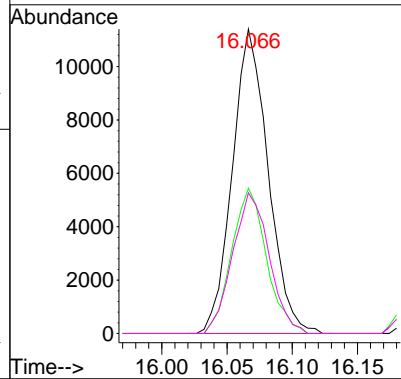
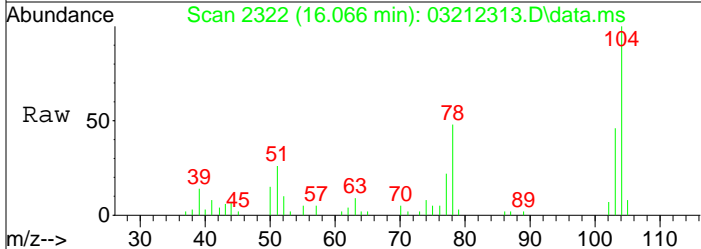
Tgt Ion	Resp	Lower	Upper
91	345278	100	
106	46.7	25.0	65.0





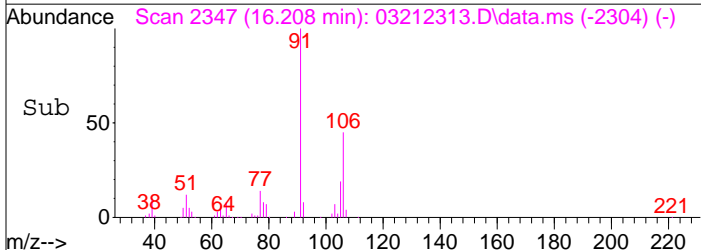
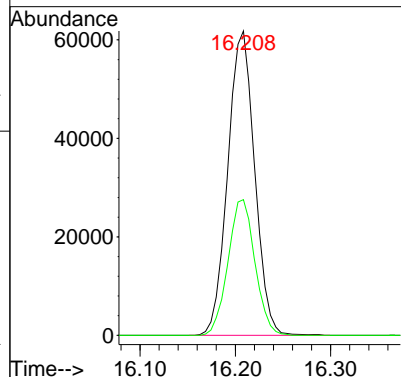
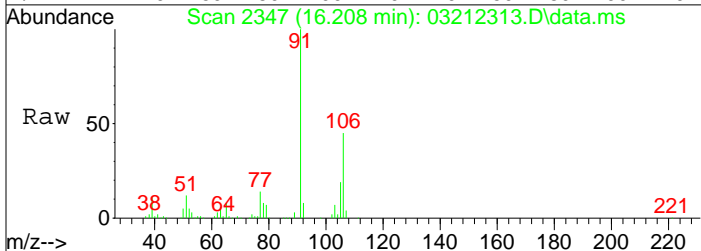
#69
 Styrene
 Concen: 0.55 ng
 RT: 16.07 min Scan# 2322
 Delta R.T. -0.006 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

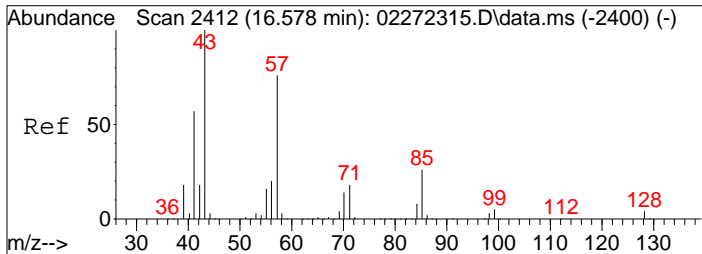
Tgt Ion	Resp	Lower	Upper
104	100		
78	46.6	29.2	69.2
103	47.3	29.2	69.2



#70
 o-Xylene
 Concen: 1.95 ng
 RT: 16.21 min Scan# 2347
 Delta R.T. -0.006 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

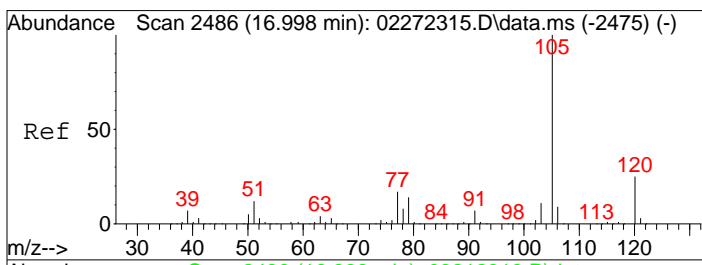
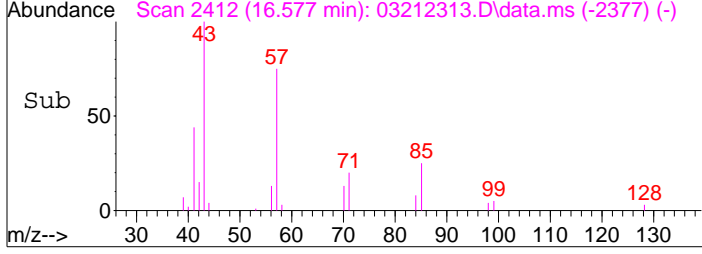
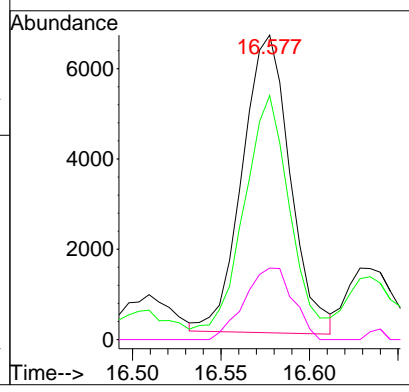
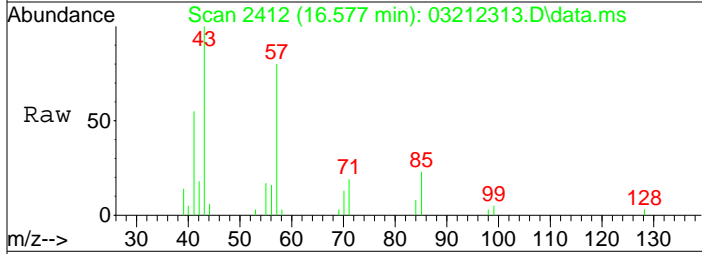
Tgt Ion	Resp	Lower	Upper
91	100		
106	44.6	24.0	64.0





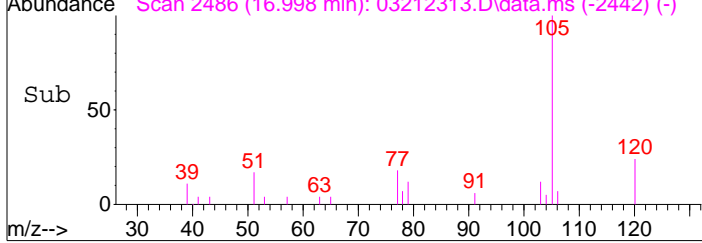
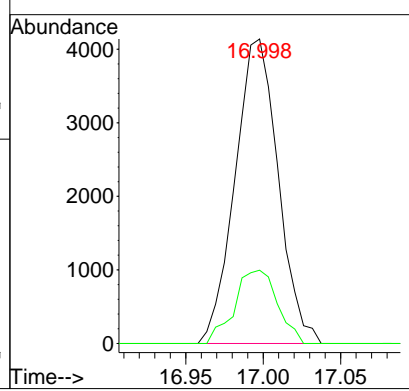
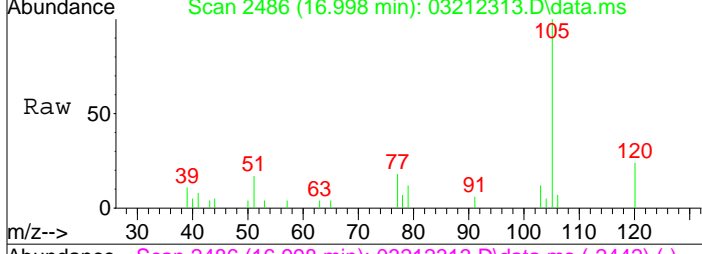
#71
 n-Nonane
 Concen: 0.32 ng
 RT: 16.58 min Scan# 2412
 Delta R.T. -0.000 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

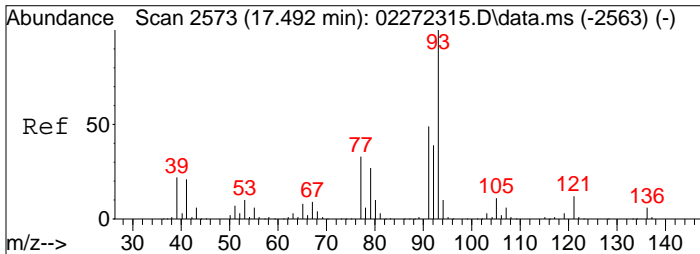
Tgt Ion	Resp	Lower	Upper
43	12413		
57	74.0	56.2	96.2
85	24.1	6.1	46.1



#74
 Cumene
 Concen: 0.10 ng
 RT: 17.00 min Scan# 2486
 Delta R.T. -0.000 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

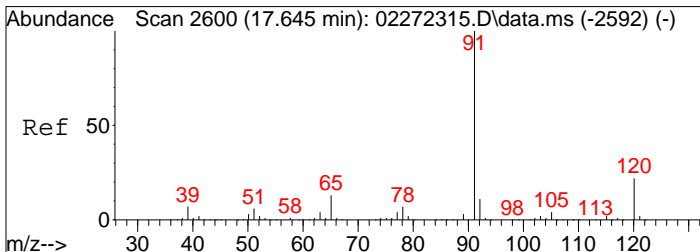
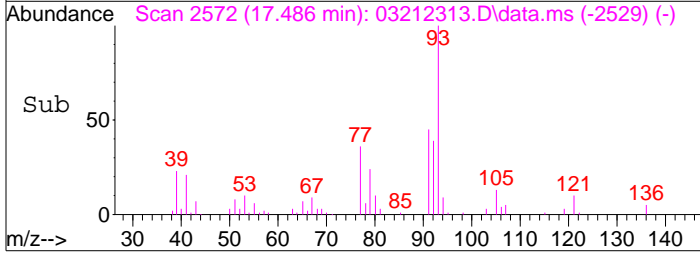
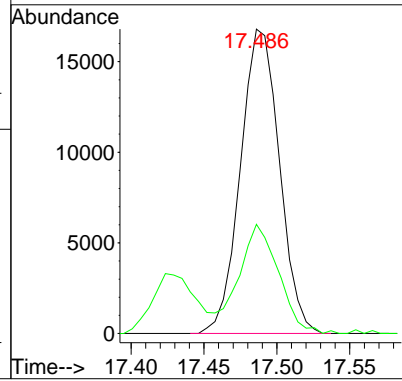
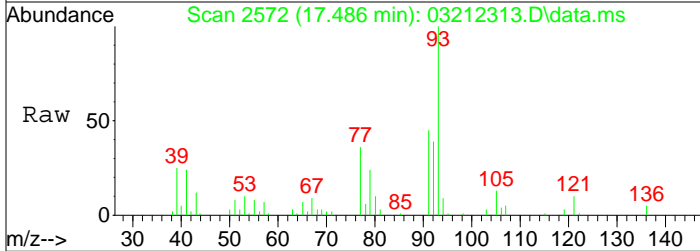
Tgt Ion	Resp	Lower	Upper
105	8009		
120	23.9	4.6	44.6





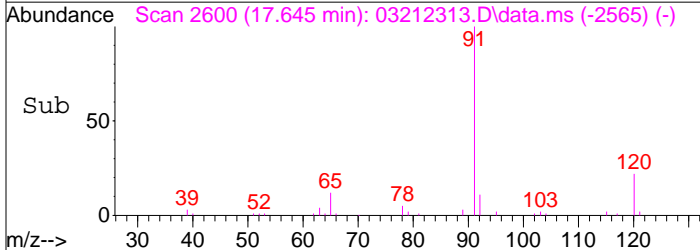
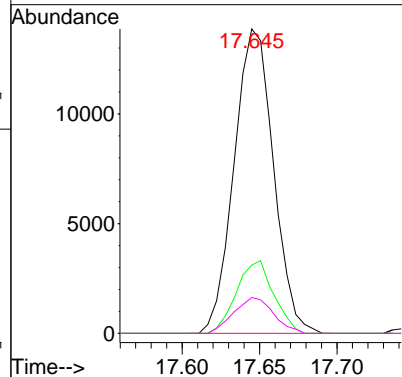
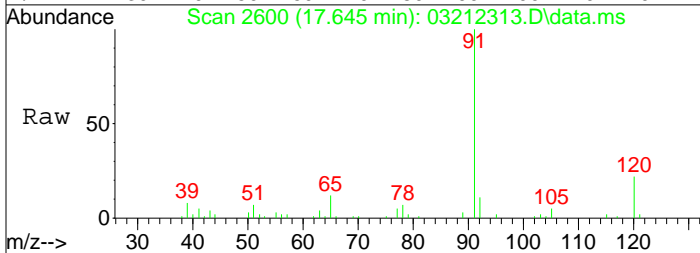
#75
 alpha-Pinene
 Concen: 0.97 ng
 RT: 17.49 min Scan# 2572
 Delta R.T. -0.006 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

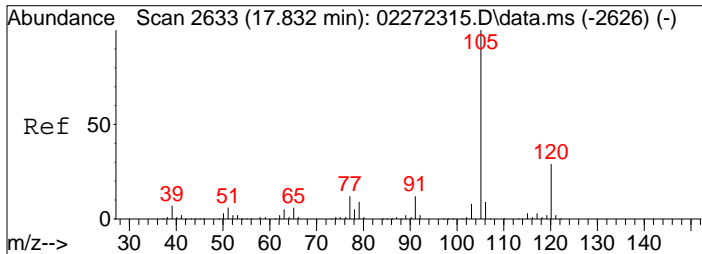
Tgt Ion	Resp	Lower	Upper
93	31242		
93	100		
77	36.3	14.2	54.2



#76
 n-Propylbenzene
 Concen: 0.27 ng
 RT: 17.64 min Scan# 2600
 Delta R.T. -0.000 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

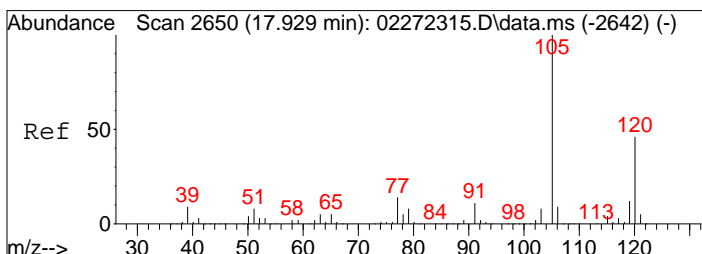
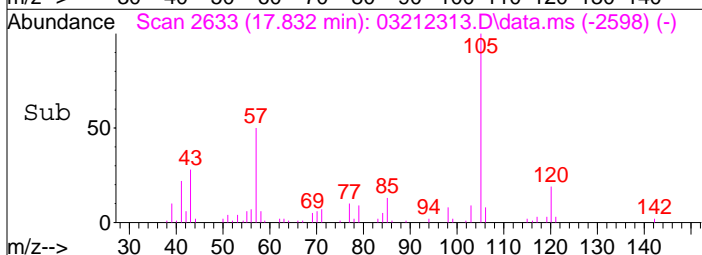
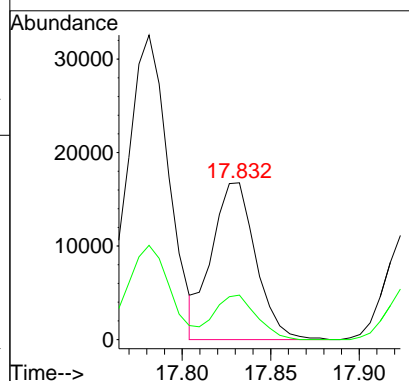
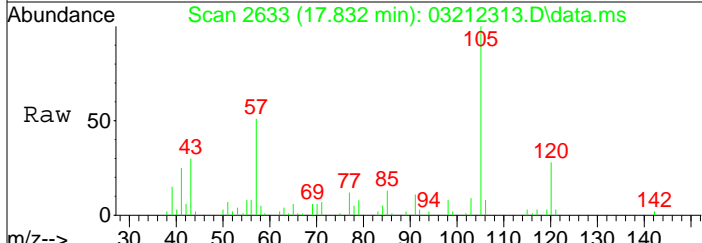
Tgt Ion	Resp	Lower	Upper
91	24509		
91	100		
120	22.6	2.0	42.0
65	11.8	0.0	32.3





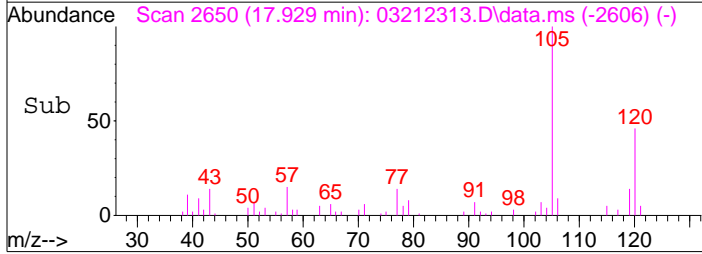
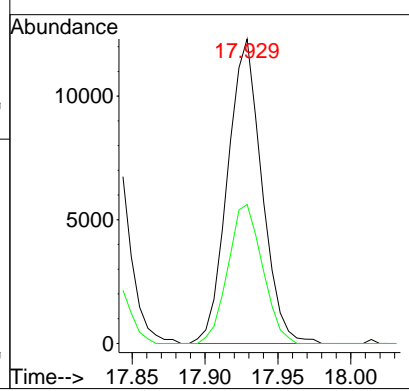
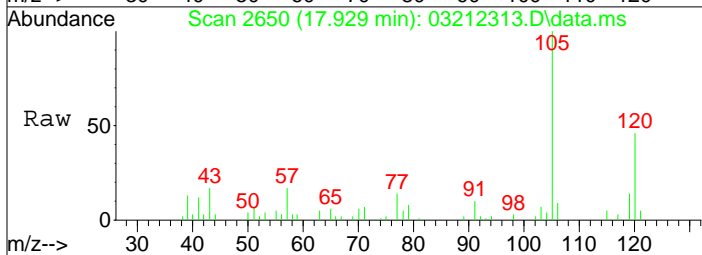
#78
 4-Ethyltoluene
 Concen: 0.40 ng
 RT: 17.83 min Scan# 2633
 Delta R.T. -0.000 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

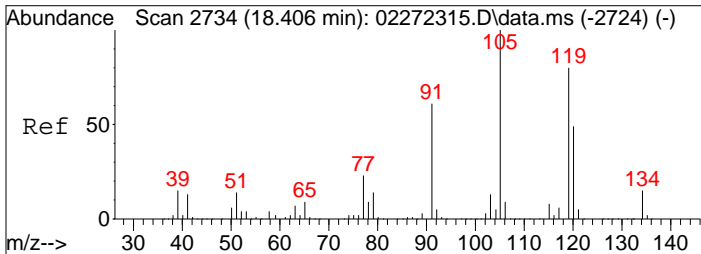
Tgt Ion	Resp	Lower	Upper
105	28951	100	100
120	26.6	8.5	48.5



#79
 1,3,5-Trimethylbenzene
 Concen: 0.31 ng
 RT: 17.93 min Scan# 2650
 Delta R.T. -0.000 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

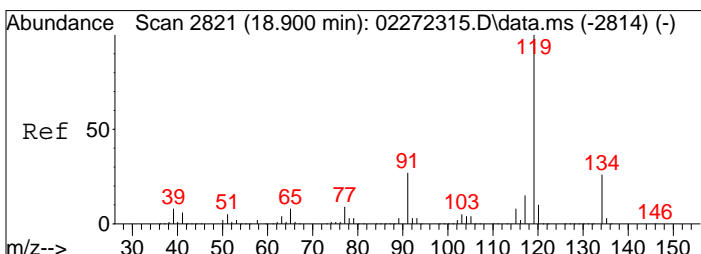
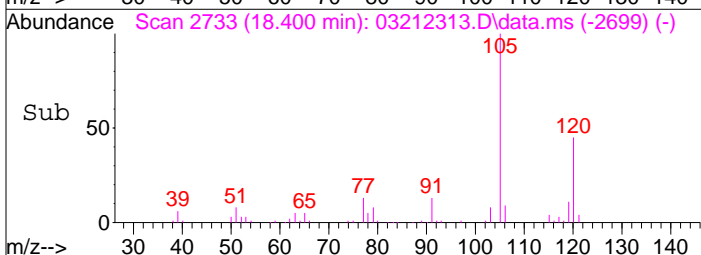
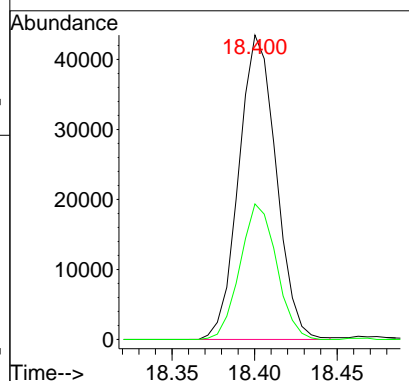
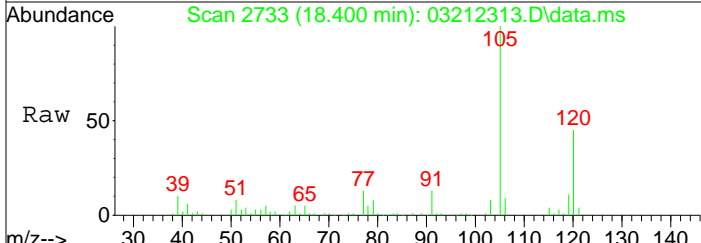
Tgt Ion	Resp	Lower	Upper
105	20098	100	100
120	46.0	25.5	65.5





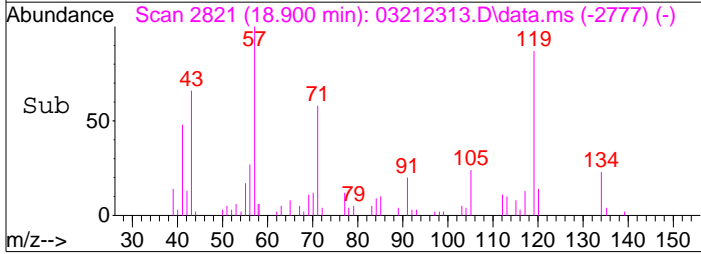
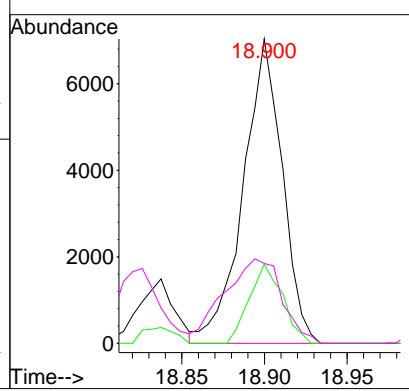
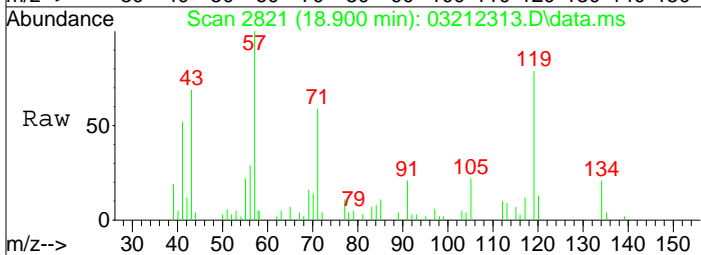
#82
 1,2,4-Trimethylbenzene
 Concen: 1.03 ng
 RT: 18.40 min Scan# 2733
 Delta R.T. -0.006 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

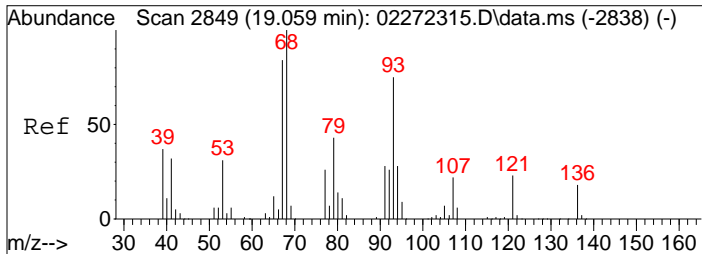
Tgt Ion	Resp	Lower	Upper
105	68335		
105	100		
120	43.5	30.5	70.5



#88
 4-Isopropyltoluene (p-Cymene)
 Concen: 0.15 ng
 RT: 18.90 min Scan# 2821
 Delta R.T. -0.000 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

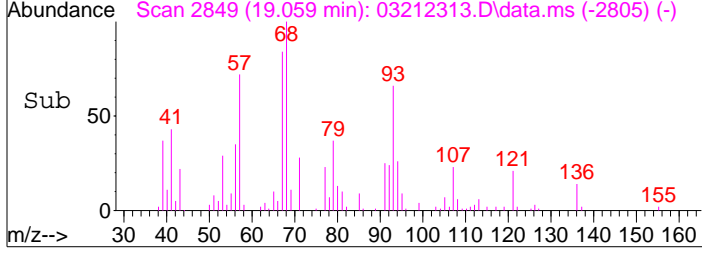
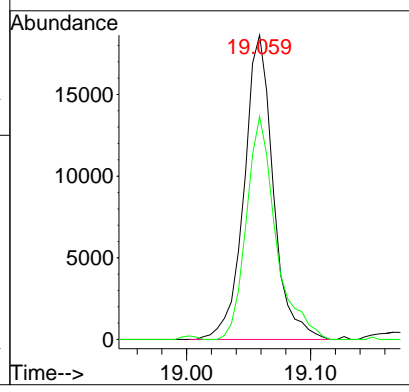
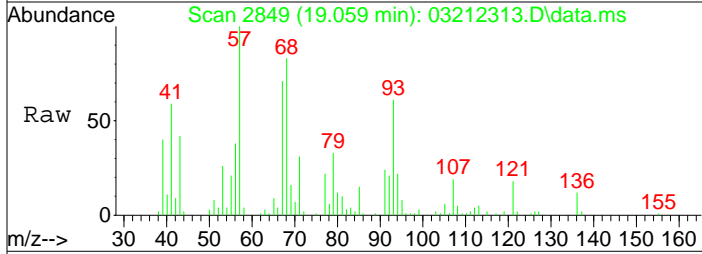
Tgt Ion	Resp	Lower	Upper
119	11589		
119	100		
134	22.3	5.7	45.7
91	41.0	6.8	46.8





#91
 d-Limonene
 Concen: 1.37 ng
 RT: 19.06 min Scan# 2849
 Delta R.T. -0.000 min
 Lab File: 03212313.D
 Acq: 21 Mar 2023 11:44

Tgt Ion:	68	Resp:	30497
Ion Ratio	Lower	Upper	
68	100		
93	74.2	55.7	95.7



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: New York State DEC
Client Sample ID: Building-1-IA-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-004

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01261

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.99 Final Pressure (psig): 3.64

Canister Dilution Factor: 1.34

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	8.5	0.71	4.9	0.41	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	0.71	0.43	0.14	
74-87-3	Chloromethane	0.62	0.28	0.30	0.14	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.70	ND	0.10	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.058	
106-99-0	1,3-Butadiene	ND	0.28	ND	0.13	
74-83-9	Bromomethane	ND	0.28	ND	0.072	
75-00-3	Chloroethane	ND	0.28	ND	0.11	
64-17-5	Ethanol	390	6.7	210	3.6	
75-05-8	Acetonitrile	ND	1.3	ND	0.80	
107-02-8	Acrolein	ND	1.3	ND	0.58	
67-64-1	Acetone	34	7.1	14	3.0	
75-69-4	Trichlorofluoromethane (CFC 11)	0.98	0.70	0.17	0.12	
67-63-0	2-Propanol (Isopropyl Alcohol)	23	1.4	9.2	0.56	
107-13-1	Acrylonitrile	ND	1.3	ND	0.62	
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.037	
75-09-2	Methylene Chloride	ND	0.71	ND	0.20	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.71	ND	0.23	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.72	ND	0.094	
75-15-0	Carbon Disulfide	ND	1.4	ND	0.46	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.037	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.036	
1634-04-4	Methyl tert-Butyl Ether	ND	0.72	ND	0.20	
108-05-4	Vinyl Acetate	ND	6.7	ND	1.9	
78-93-3	2-Butanone (MEK)	4.2	1.4	1.4	0.47	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3

Client: New York State DEC
Client Sample ID: Building-1-IA-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-004

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01261

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.99 Final Pressure (psig): 3.64

Canister Dilution Factor: 1.34

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.15	ND	0.037	
141-78-6	Ethyl Acetate	6.7	2.8	1.9	0.78	
110-54-3	n-Hexane	1.8	0.71	0.52	0.20	
67-66-3	Chloroform	0.29	0.15	0.059	0.030	
109-99-9	Tetrahydrofuran (THF)	6.6	0.67	2.2	0.23	
107-06-2	1,2-Dichloroethane	ND	0.15	ND	0.036	
71-55-6	1,1,1-Trichloroethane	ND	0.15	ND	0.027	
71-43-2	Benzene	0.98	0.15	0.31	0.046	
56-23-5	Carbon Tetrachloride	0.43	0.15	0.068	0.023	
110-82-7	Cyclohexane	ND	1.4	ND	0.41	
78-87-5	1,2-Dichloropropane	ND	0.15	ND	0.032	
75-27-4	Bromodichloromethane	ND	0.15	ND	0.022	
79-01-6	Trichloroethene	ND	0.15	ND	0.027	
123-91-1	1,4-Dioxane	ND	0.71	ND	0.20	
80-62-6	Methyl Methacrylate	ND	1.5	ND	0.36	
142-82-5	n-Heptane	1.2	0.71	0.30	0.17	
10061-01-5	cis-1,3-Dichloropropene	ND	0.72	ND	0.16	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.36	
10061-02-6	trans-1,3-Dichloropropene	ND	0.68	ND	0.15	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.027	
108-88-3	Toluene	7.2	0.71	1.9	0.19	
591-78-6	2-Hexanone	ND	1.5	ND	0.36	
124-48-1	Dibromochloromethane	ND	0.15	ND	0.017	
106-93-4	1,2-Dibromoethane	ND	0.15	ND	0.019	
123-86-4	n-Butyl Acetate	1.4	1.3	0.30	0.28	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3 of 3

Client: New York State DEC
Client Sample ID: Building-1-IA-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-004

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01261

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.99 Final Pressure (psig): 3.64

Canister Dilution Factor: 1.34

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	0.75	0.72	0.16	0.15	
127-18-4	Tetrachloroethene	3.5	0.15	0.52	0.022	
108-90-7	Chlorobenzene	ND	0.71	ND	0.15	
100-41-4	Ethylbenzene	1.7	0.71	0.39	0.16	
179601-23-1	m,p-Xylenes	5.3	1.5	1.2	0.34	
75-25-2	Bromoform	ND	0.72	ND	0.070	
100-42-5	Styrene	ND	0.71	ND	0.17	
95-47-6	o-Xylene	2.1	0.71	0.49	0.16	
111-84-2	n-Nonane	0.79	0.71	0.15	0.14	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.021	
98-82-8	Cumene	ND	0.72	ND	0.15	
80-56-8	alpha-Pinene	2.5	1.5	0.45	0.26	
103-65-1	n-Propylbenzene	ND	0.72	ND	0.15	
622-96-8	4-Ethyltoluene	0.80	0.74	0.16	0.15	
108-67-8	1,3,5-Trimethylbenzene	ND	0.71	ND	0.14	
95-63-6	1,2,4-Trimethylbenzene	2.4	0.71	0.48	0.14	
100-44-7	Benzyl Chloride	ND	2.8	ND	0.55	
541-73-1	1,3-Dichlorobenzene	ND	0.71	ND	0.12	
106-46-7	1,4-Dichlorobenzene	ND	0.71	ND	0.12	
95-50-1	1,2-Dichlorobenzene	ND	0.72	ND	0.12	
5989-27-5	d-Limonene	3.1	1.5	0.55	0.26	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.5	ND	0.15	
120-82-1	1,2,4-Trichlorobenzene	ND	1.5	ND	0.20	
91-20-3	Naphthalene	ND	0.74	ND	0.14	
87-68-3	Hexachlorobutadiene	ND	0.71	ND	0.067	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Data File : I:\MS09\DATA\2023 03\21\03212315.D
 Acq On : 21 Mar 2023 12:53
 Sample : P2301184-004 (1000ml)
 Misc : S35-02212305

Vial: 7
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 21 21:28:12 2023

Quant Method : I:\MS09\METHODS\R9022723.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Tue Feb 28 08:30:18 2023

Response via : Initial Calibration

DataAcq Meth:TO15.M

USA 3/21/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.20	130	165594	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.27	114	744389	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.81	54	167945	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.97	65	354887	12.659	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery	=	101.28%	
57) Toluene-d8 (SS2)	12.39	98	887707	13.911	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	111.28%	
73) Bromofluorobenzene (SS3)	16.79	174	270040	10.377	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	83.04%	

Target Compounds

						Qvalue
2) Propene	3.26	42	139564m	6.336	ng	
3) Dichlorodifluoromethan...	3.34	85	60730	1.588	ng	94
4) Chloromethane	3.48	50	11170	0.465	ng	88
5) 1,2-Dichloro-1,1,2,2-t...	3.58	135	1255	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.	d	
8) Bromomethane	4.01	94	1076	N.D.		
9) Chloroethane	4.12	64	760	N.D.		
10) Ethanol	4.35	45	4583422	291.676	ng	99
11) Acetonitrile	0.00	41	0	N.D.	d	
12) Acrolein	4.52	56	6139	0.586	ng	88
13) Acetone	4.61	58	301638	25.331	ng	90
14) Trichlorofluoromethane	4.73	101	27881	0.731	ng	98
15) 2-Propanol (Isopropanol)	4.89	45	784978	16.885	ng	96
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	5.33	84	4774	0.304	ng	98
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	5.55	151	4906	0.284	ng	# 69
22) Carbon Disulfide	5.58	76	3411	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	6.37	73	972	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	6.65	72	29487	3.107	ng	# 91
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	7.25	87	698	N.D.		
30) Ethyl Acetate	7.26	61	36553	5.009	ng	99
31) n-Hexane	7.27	57	41329	1.364	ng	98
32) Chloroform	7.33	83	7184	0.216	ng	97
34) Tetrahydrofuran (THF)	7.73	72	46543	4.896	ng	95
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.08	62	2239	N.D.		
38) 1,1,1-Trichloroethane	8.36	97	1340	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	8.79	56	35728	No Calib	#	
41) Benzene	8.87	78	46715	0.735	ng	91
42) Carbon Tetrachloride	9.03	117	8945	0.319	ng	93
43) Cyclohexane	9.18	84	10608	0.449	ng	96
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	9.82	63	378	N.D.		
46) Bromodichloromethane	10.07	83	1853	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	10.13	88	269	N.D.		
49) 2,2,4-Trimethylpentane...	10.20	57	73221	0.942	ng	95
50) Methyl Methacrylate	10.38	100	3011	0.502	ng	# 39

Data File : I:\MS09\DATA\2023 03\21\03212315.D
 Acq On : 21 Mar 2023 12:53
 Sample : P2301184-004 (1000ml)
 Misc : S35-02212305

Vial: 7
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 21 21:28:12 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

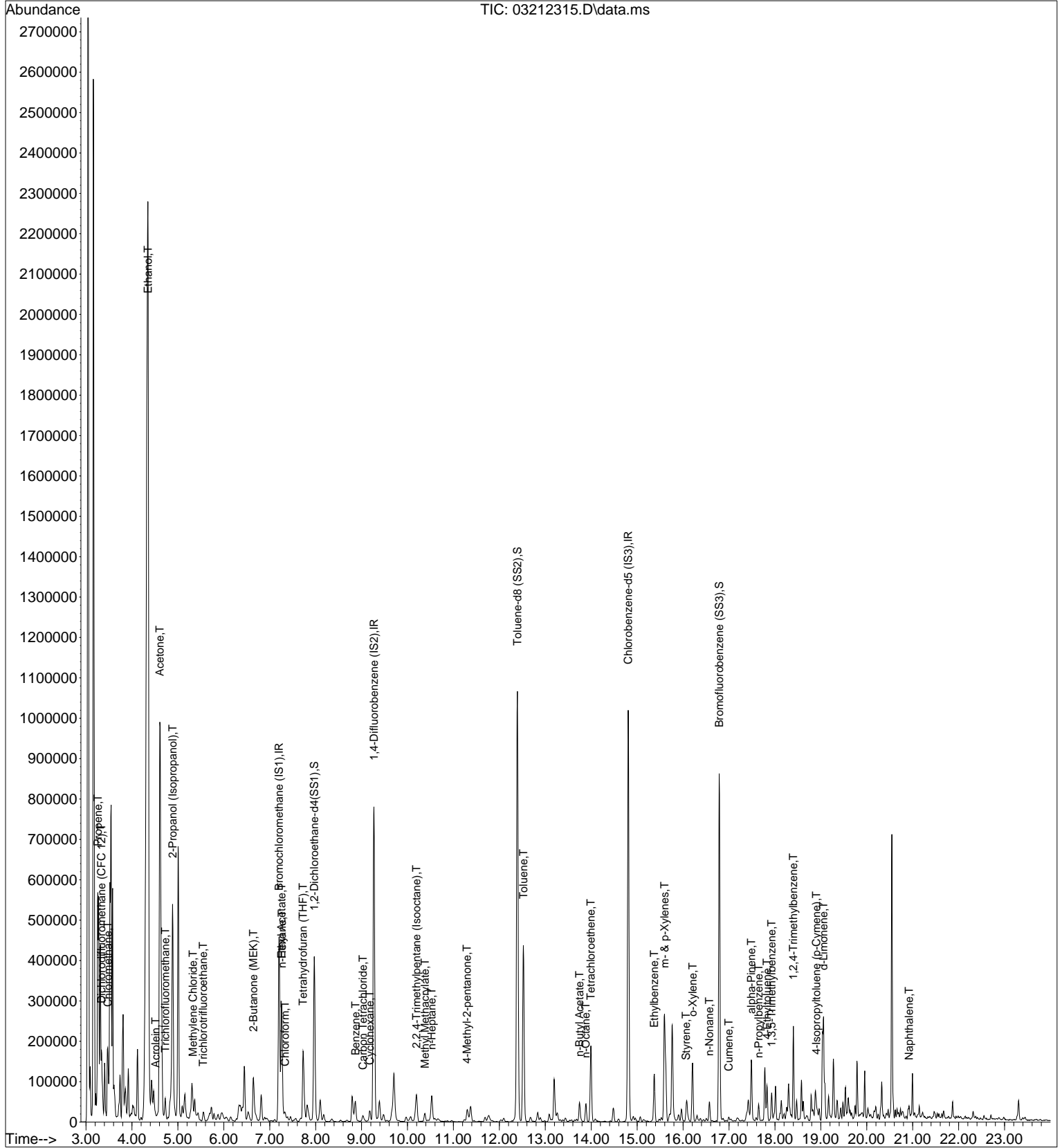
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.52	71	14677	0.927	ng	96
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.30	58	9685	0.622	ng	83
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.52	91	366112	5.388	ng	97
59) 2-Hexanone	0.00	43	0	N.D.	d	
60) Dibromochloromethane	13.05	129	263	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.74	43	49699	1.046	ng	100
63) n-Octane	13.88	57	8274	0.558	ng	93
64) Tetrachloroethene	13.99	166	61659	2.632	ng	99
65) Chlorobenzene	14.85	112	326	N.D.		
66) Ethylbenzene	15.37	91	97326	1.249	ng	99
67) m- & p-Xylenes	15.60	91	254992	3.987	ng	97
68) Bromoform	15.65	173	114	N.D.		
69) Styrene	16.07	104	12228	0.303	ng	96
70) o-Xylene	16.21	91	100130	1.589	ng	99
71) n-Nonane	16.57	43	23335	0.587	ng	99
72) 1,1,2,2-Tetrachloroethane	16.10	83	294	N.D.		
74) Cumene	16.99	105	8792	0.113	ng	98
75) alpha-Pinene	17.49	93	60615	1.852	ng	95
76) n-Propylbenzene	17.65	91	33196	0.357	ng	99
77) 3-Ethyltoluene	16.99	105	8792	No Calib		
78) 4-Ethyltoluene	17.83	105	43910	0.598	ng	98
79) 1,3,5-Trimethylbenzene	17.93	105	32660	0.495	ng	98
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	16.99	105	8792	No Calib		
82) 1,2,4-Trimethylbenzene	18.40	105	118261	1.765	ng	91
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	18.55	146	559	N.D.		
86) 1,4-Dichlorobenzene	18.63	146	1188	N.D.		
87) sec-Butylbenzene	18.71	105	3619	N.D.		
88) 4-Isopropyltoluene (p-...	18.90	119	18576	0.244	ng	81
89) 1,2,3-Trimethylbenzene	16.99	105	8792	No Calib		
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	19.06	68	51767	2.306	ng	97
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.08	58	1257	No Calib	#	
94) 1,2,4-Trichlorobenzene	20.82	180	335	N.D.		
95) Naphthalene	20.92	128	10894	0.184	ng	97
96) n-Dodecane	19.03	58	5462	No Calib	#	
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	15.22	55	1097	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:\MS09\DATA\2023 03\21\03212315.D
 Acq On : 21 Mar 2023 12:53
 Sample : P2301184-004 (1000ml)
 Misc : S35-02212305

Vial: 7
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 21 21:28:12 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



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3/21/23

Quant Time: Mar 21 21:28:12 2023
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 Response via : Initial Calibration
 DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	7.20	130	165594	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.27	114	744389	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.81	54	167945	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.97	65	354887	12.659	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery =	101.28%		
57) Toluene-d8 (SS2)	12.39	98	887707	13.911	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery =	111.28%		
73) Bromofluorobenzene (SS3)	16.79	174	270040	10.377	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery =	83.04%		

Target Compounds

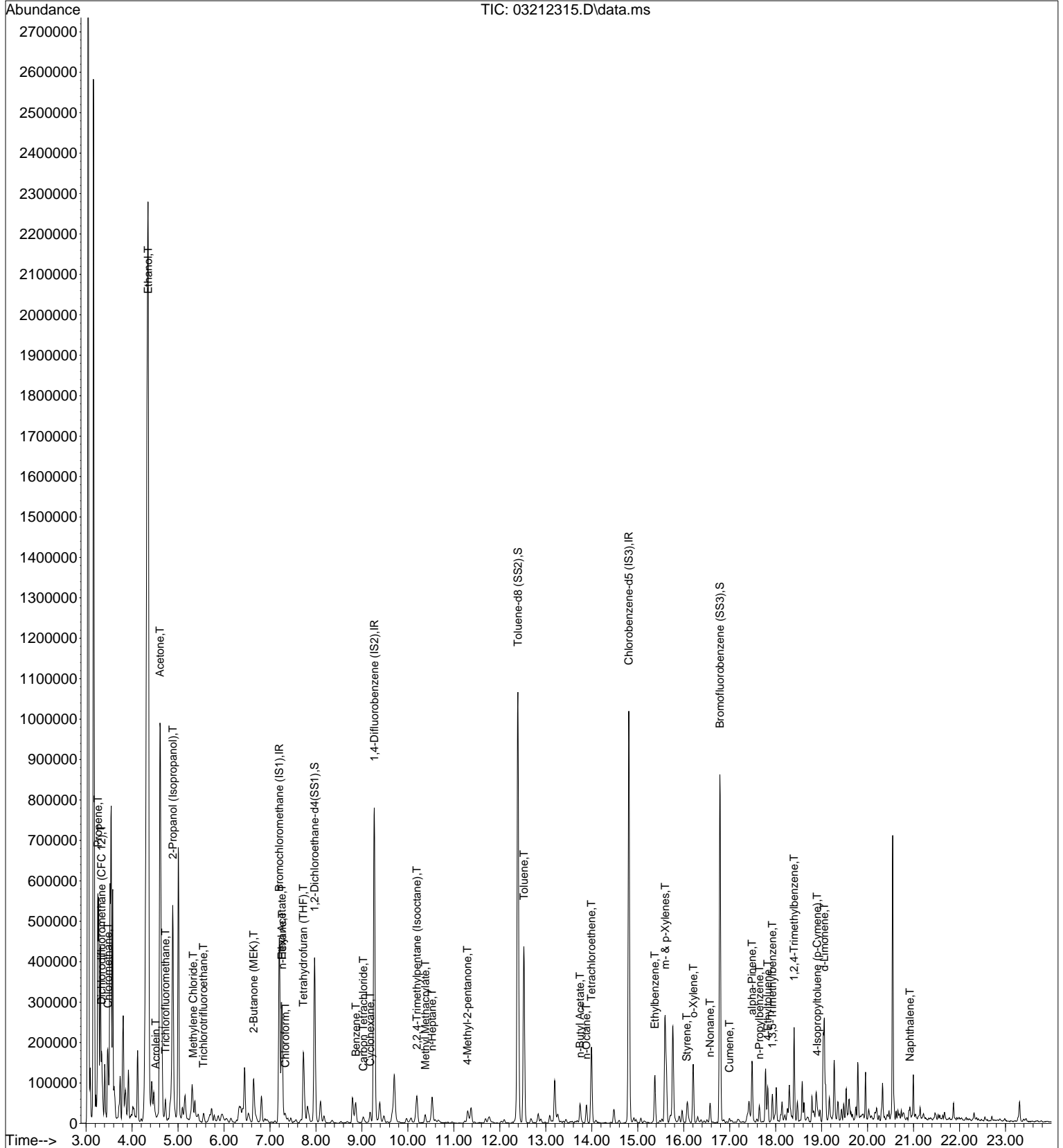
	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.26	42	139564m	6.336	ng	
3) Dichlorodifluoromethan...	3.34	85	60730	1.588	ng	94
4) Chloromethane	3.48	50	11170	0.465	ng	88
10) Ethanol	4.35	45	4583422	291.676	ng	99
12) Acrolein	4.52	56	6139	0.586	ng	88
13) Acetone	4.61	58	301638	25.331	ng	90
14) Trichlorofluoromethane	4.73	101	27881	0.731	ng	98
15) 2-Propanol (Isopropanol)	4.89	45	784978	16.885	ng	96
19) Methylene Chloride	5.33	84	4774	0.304	ng	98
21) Trichlorotrifluoroethane	5.55	151	4906	0.284	ng	# 69
27) 2-Butanone (MEK)	6.65	72	29487	3.107	ng	# 91
30) Ethyl Acetate	7.26	61	36553	5.009	ng	99
31) n-Hexane	7.27	57	41329	1.364	ng	98
32) Chloroform	7.33	83	7184	0.216	ng	97
34) Tetrahydrofuran (THF)	7.73	72	46543	4.896	ng	95
41) Benzene	8.87	78	46715	0.735	ng	91
42) Carbon Tetrachloride	9.03	117	8945	0.319	ng	93
43) Cyclohexane	9.18	84	10608	0.449	ng	96
49) 2,2,4-Trimethylpentane...	10.20	57	73221	0.942	ng	95
50) Methyl Methacrylate	10.38	100	3011	0.502	ng	# 39
51) n-Heptane	10.52	71	14677	0.927	ng	96
53) 4-Methyl-2-pentanone	11.30	58	9685	0.622	ng	83
58) Toluene	12.52	91	366112	5.388	ng	97
62) n-Butyl Acetate	13.74	43	49699	1.046	ng	100
63) n-Octane	13.88	57	8274	0.558	ng	93
64) Tetrachloroethene	13.99	166	61659	2.632	ng	99
66) Ethylbenzene	15.37	91	97326	1.249	ng	99
67) m- & p-Xylenes	15.60	91	254992	3.987	ng	97
69) Styrene	16.07	104	12228	0.303	ng	96
70) o-Xylene	16.21	91	100130	1.589	ng	99
71) n-Nonane	16.57	43	23335	0.587	ng	99
74) Cumene	16.99	105	8792	0.113	ng	98
75) alpha-Pinene	17.49	93	60615	1.852	ng	95
76) n-Propylbenzene	17.65	91	33196	0.357	ng	99
78) 4-Ethyltoluene	17.83	105	43910	0.598	ng	98
79) 1,3,5-Trimethylbenzene	17.93	105	32660	0.495	ng	98
82) 1,2,4-Trimethylbenzene	18.40	105	118261	1.765	ng	91
88) 4-Isopropyltoluene (p-...	18.90	119	18576	0.244	ng	81
91) d-Limonene	19.06	68	51767	2.306	ng	97
95) Naphthalene	20.92	128	10894	0.184	ng	97

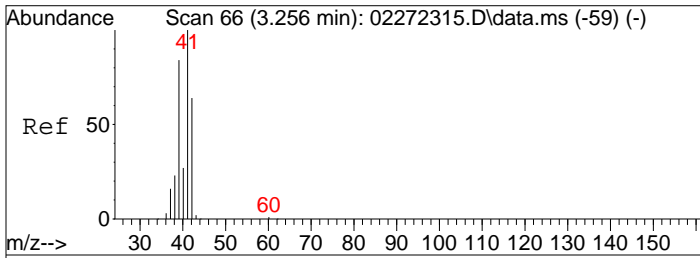
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS09\DATA\2023 03\21\03212315.D
 Acq On : 21 Mar 2023 12:53
 Sample : P2301184-004 (1000ml)
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Vial: 7
 Operator: WA/SR
 Inst : MS09

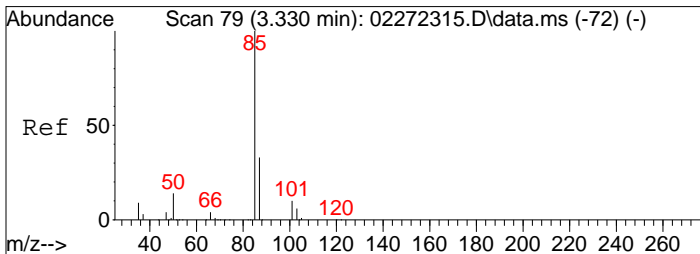
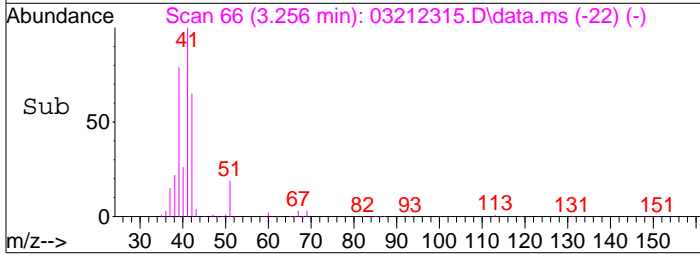
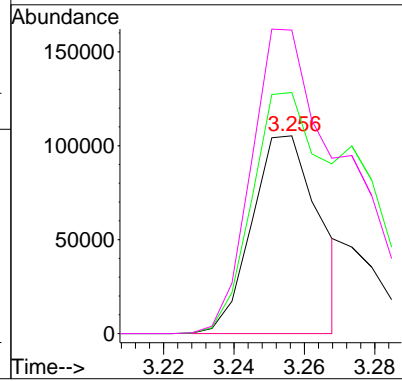
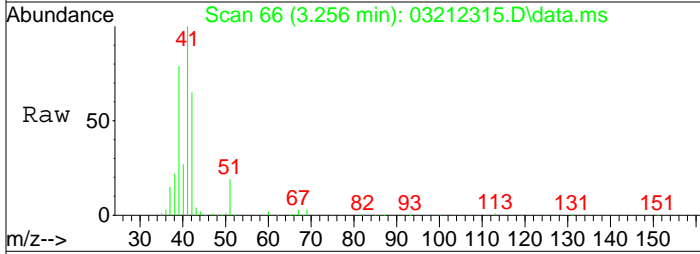
Quant Time: Mar 21 21:28:12 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M





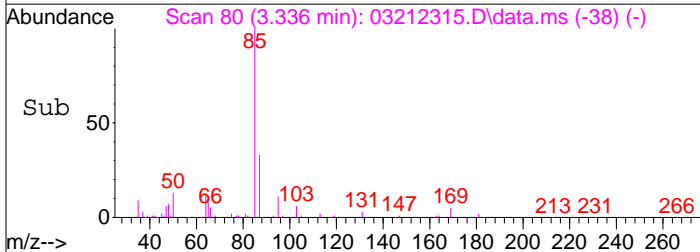
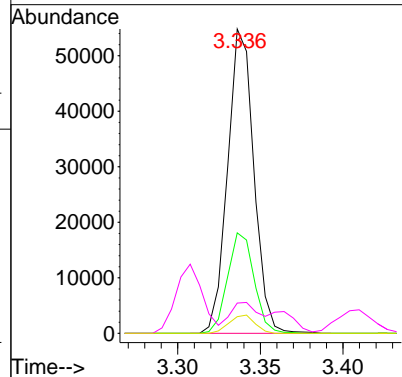
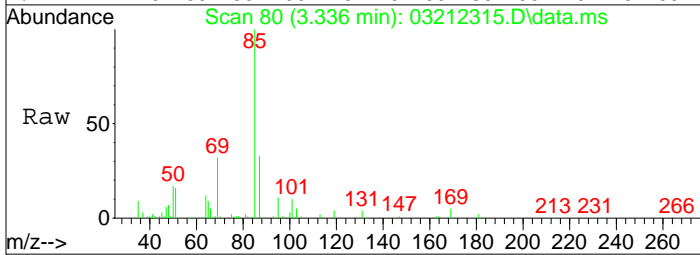
#2
 Propene
 Concen: 6.34 ng m
 RT: 3.26 min Scan# 66
 Delta R.T. 0.000 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

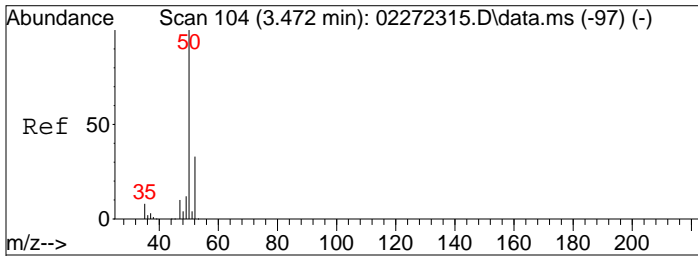
Tgt Ion:	Resp:	Lower	Upper
42	139564		
42	100		
39	130.5	110.0	150.0
41	159.6	135.8	175.8



#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.59 ng
 RT: 3.34 min Scan# 80
 Delta R.T. -0.014 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

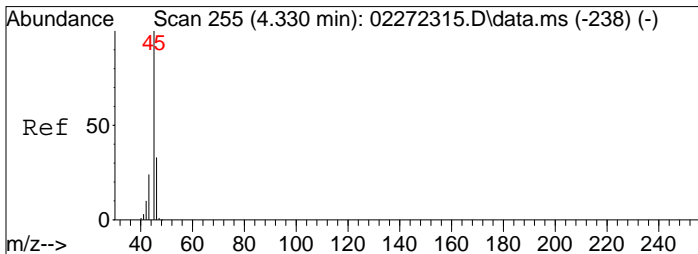
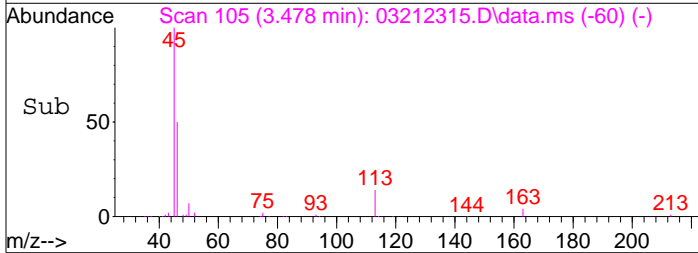
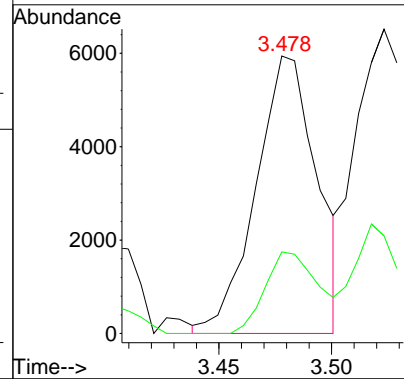
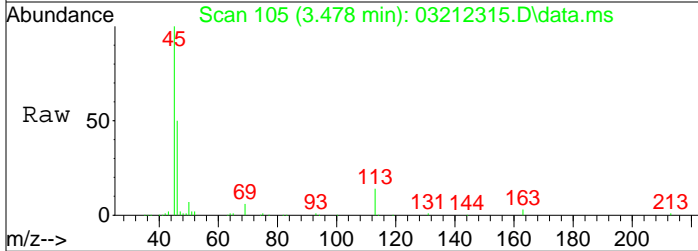
Tgt Ion:	Resp:	Lower	Upper
85	60730		
85	100		
87	33.2	12.3	52.3
101	18.3	0.0	29.7
103	5.9	0.0	26.3





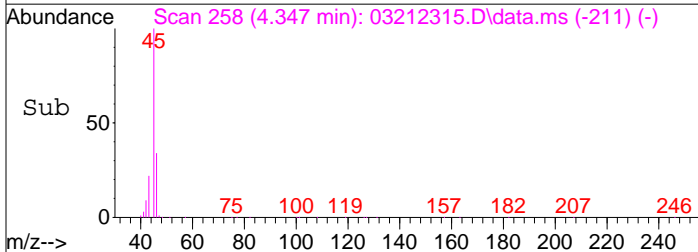
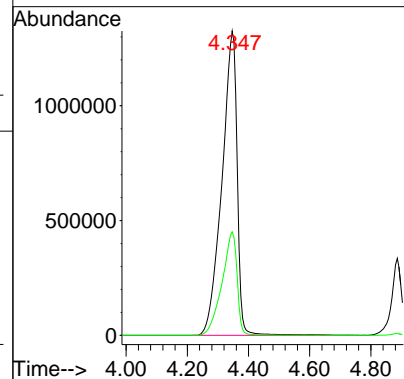
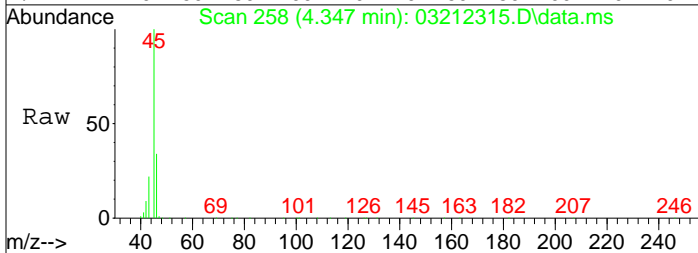
#4
 Chloromethane
 Concen: 0.47 ng
 RT: 3.48 min Scan# 105
 Delta R.T. 0.006 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

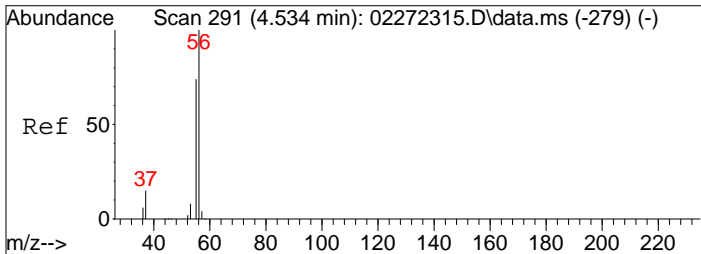
Tgt Ion: 50 Resp: 11170
 Ion Ratio Lower Upper
 50 100
 52 25.8 12.8 52.8



#10
 Ethanol
 Concen: 291.68 ng
 RT: 4.35 min Scan# 258
 Delta R.T. 0.017 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

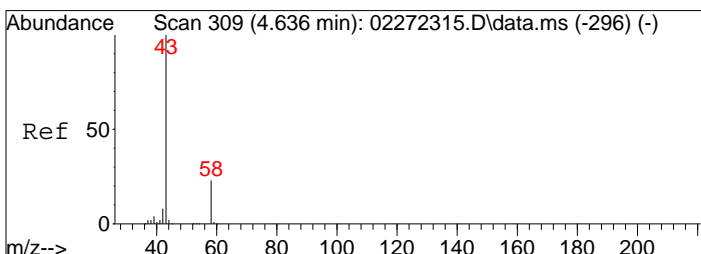
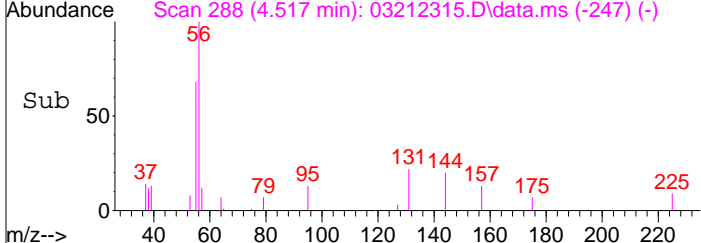
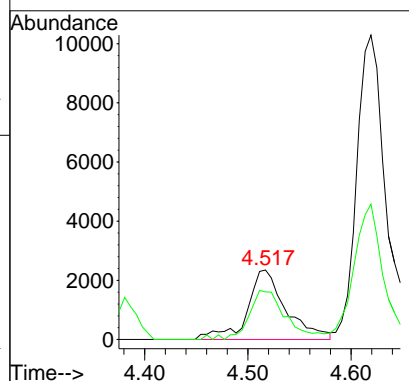
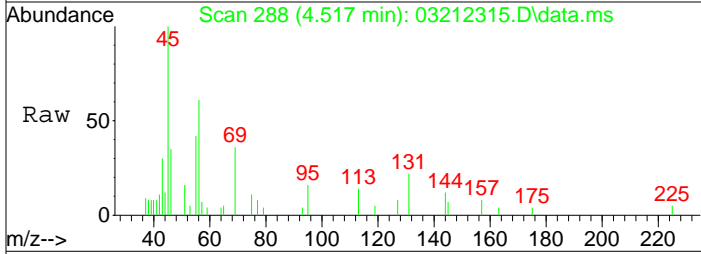
Tgt Ion: 45 Resp: 4583422
 Ion Ratio Lower Upper
 45 100
 46 33.9 13.4 53.4





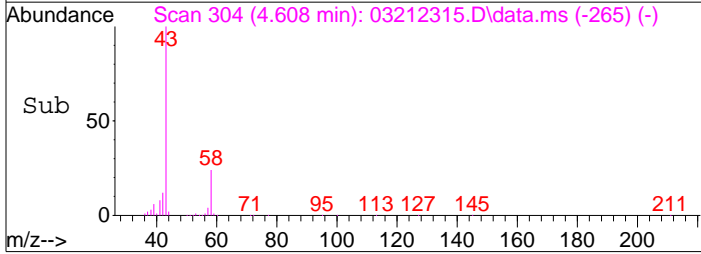
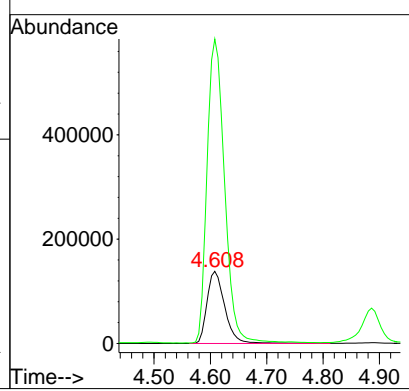
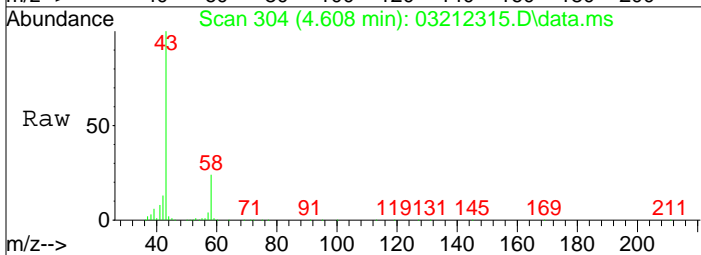
#12
 Acrolein
 Concen: 0.59 ng
 RT: 4.52 min Scan# 288
 Delta R.T. -0.017 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

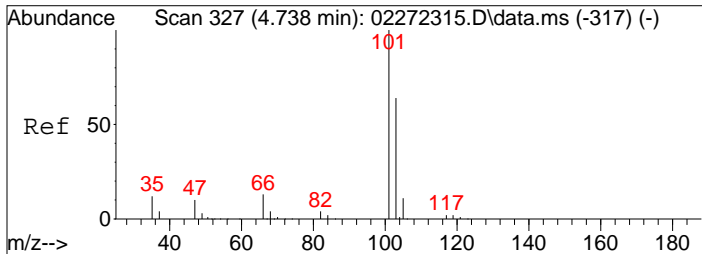
Tgt Ion	Resp	Lower	Upper
56	6139		
55	66.5	56.4	96.4



#13
 Acetone
 Concen: 25.33 ng
 RT: 4.61 min Scan# 304
 Delta R.T. -0.028 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

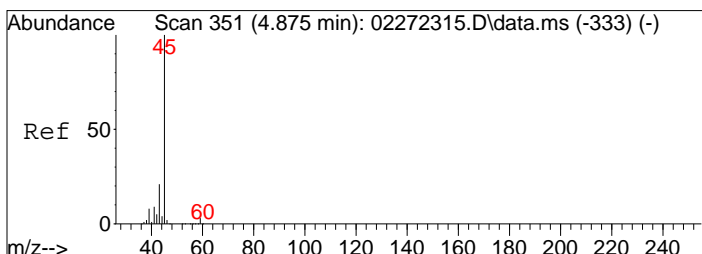
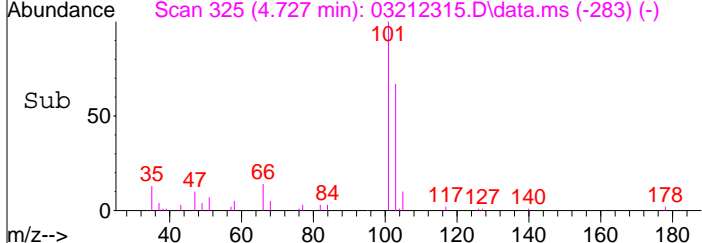
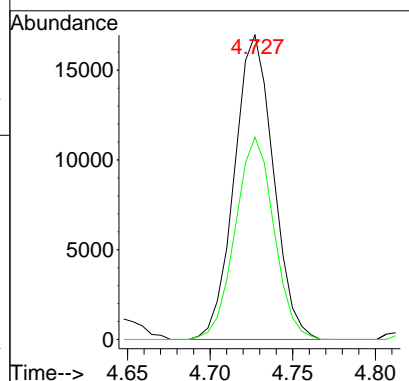
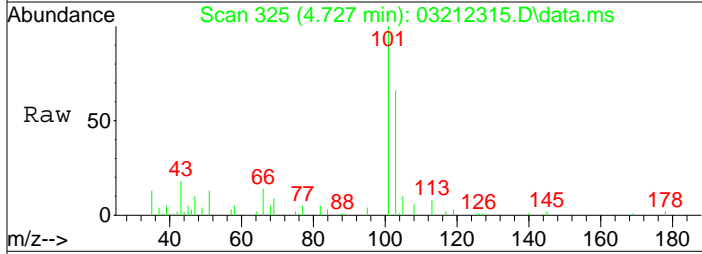
Tgt Ion	Resp	Lower	Upper
58	301638		
43	418.2	414.4	474.4





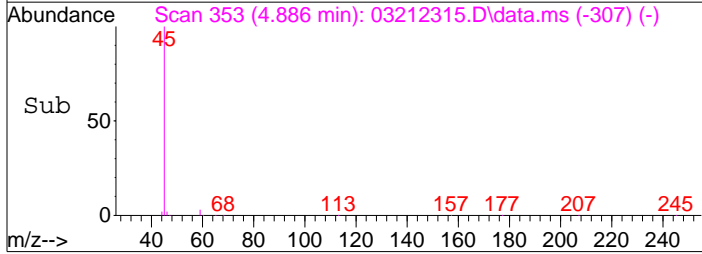
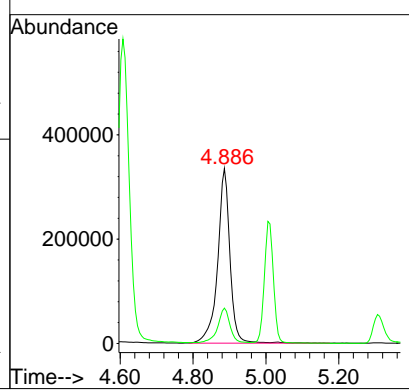
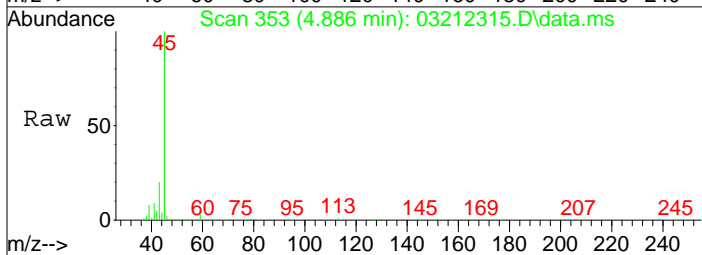
#14
 Trichlorofluoromethane
 Concen: 0.73 ng
 RT: 4.73 min Scan# 325
 Delta R.T. -0.011 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

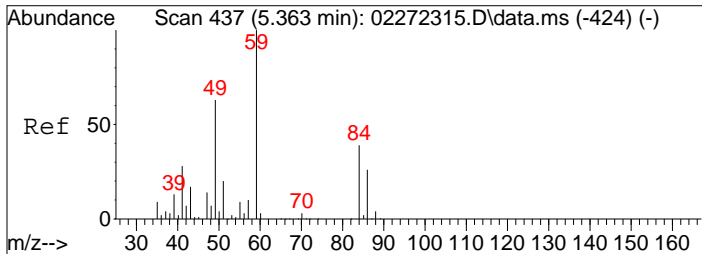
Tgt Ion	Resp	Lower	Upper
101	100		
103	65.7	44.0	84.0



#15
 2-Propanol (Isopropanol)
 Concen: 16.88 ng
 RT: 4.89 min Scan# 353
 Delta R.T. 0.011 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

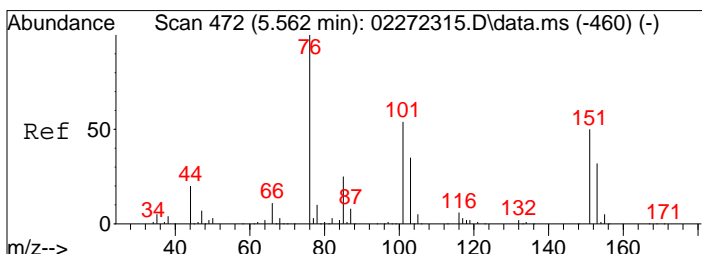
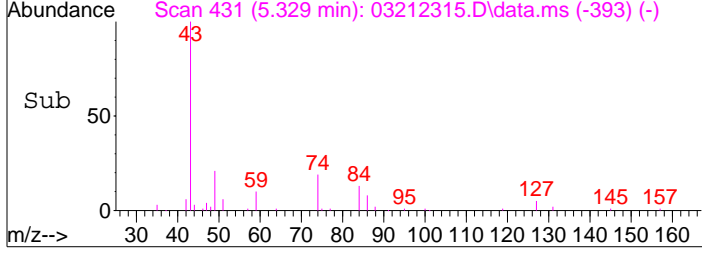
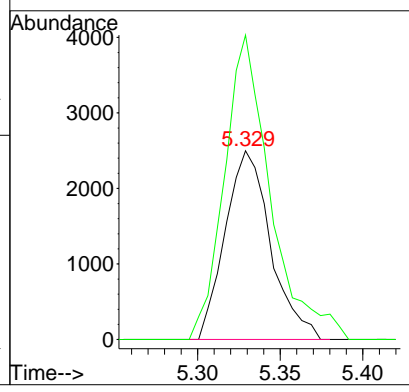
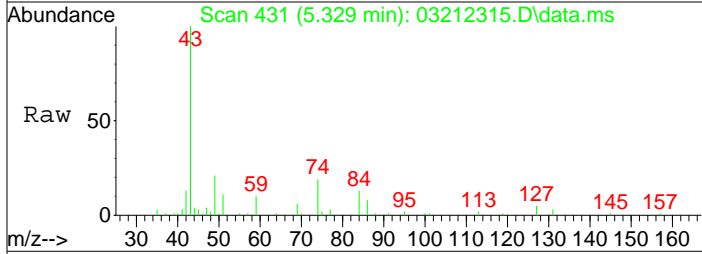
Tgt Ion	Resp	Lower	Upper
45	100		
43	19.6	1.6	41.6





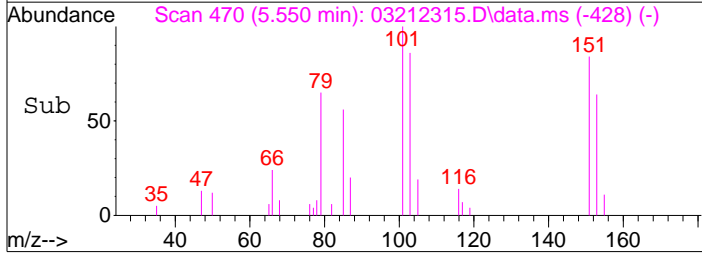
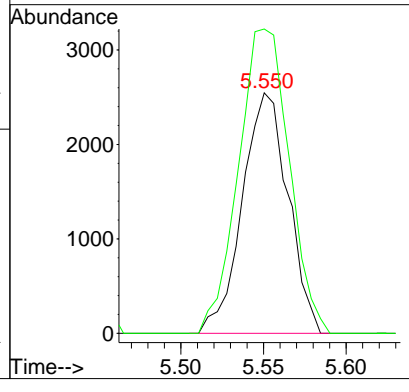
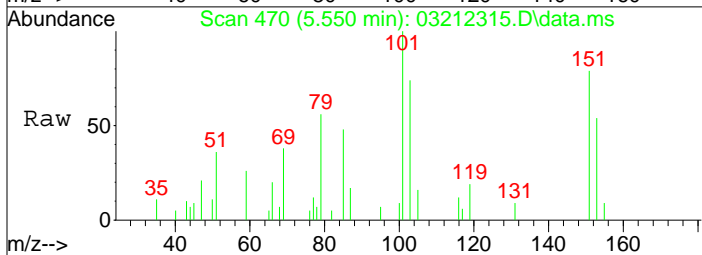
#19
 Methylene Chloride
 Concen: 0.30 ng
 RT: 5.33 min Scan# 431
 Delta R.T. -0.034 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

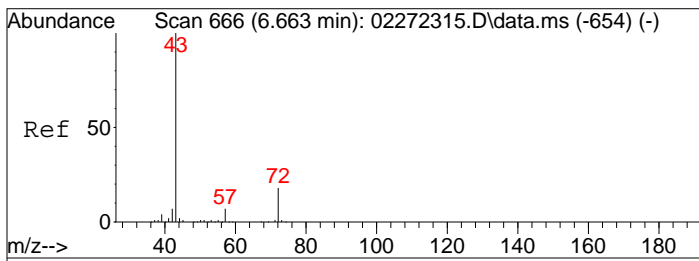
Tgt Ion:	84	Resp:	4774
Ion Ratio	Lower	Upper	
84	100		
49	163.9	136.0	186.0



#21
 Trichlorotrifluoroethane
 Concen: 0.28 ng
 RT: 5.55 min Scan# 470
 Delta R.T. -0.011 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

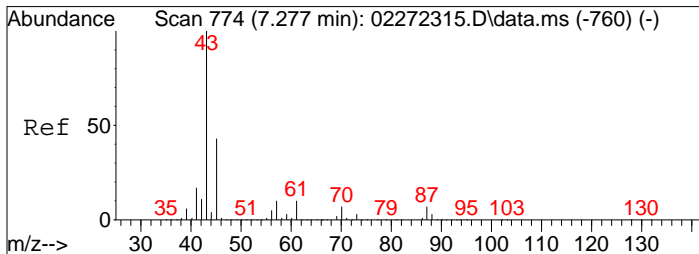
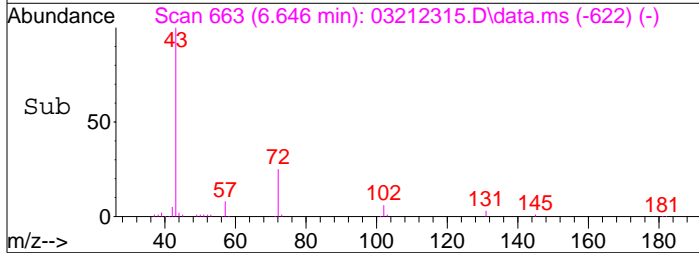
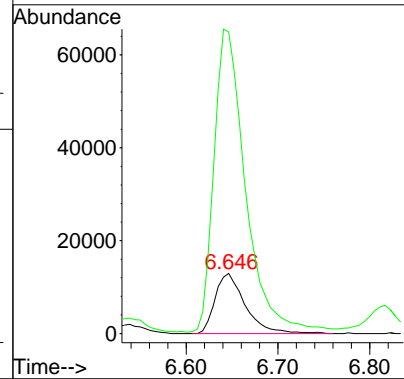
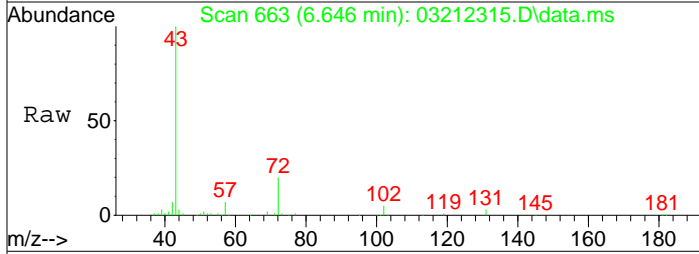
Tgt Ion:	151	Resp:	4906
Ion Ratio	Lower	Upper	
151	100		
101	140.3	88.2	128.2#





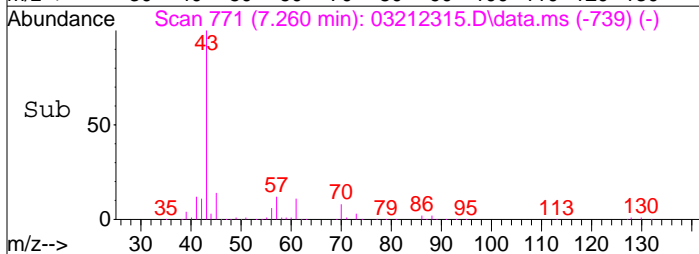
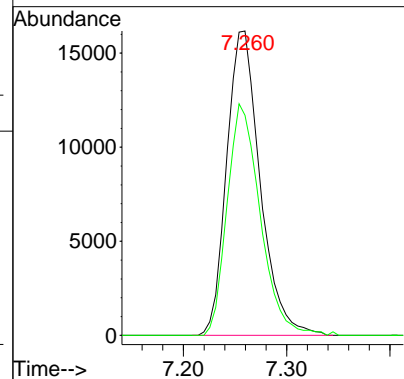
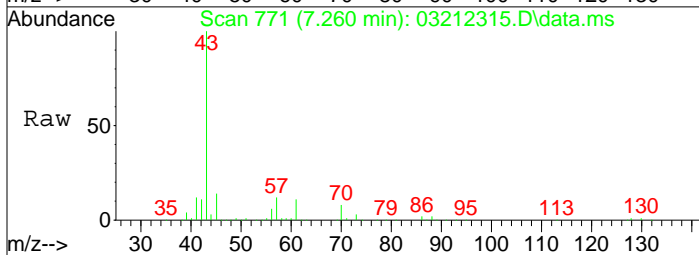
#27
 2-Butanone (MEK)
 Concen: 3.11 ng
 RT: 6.65 min Scan# 663
 Delta R.T. -0.017 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

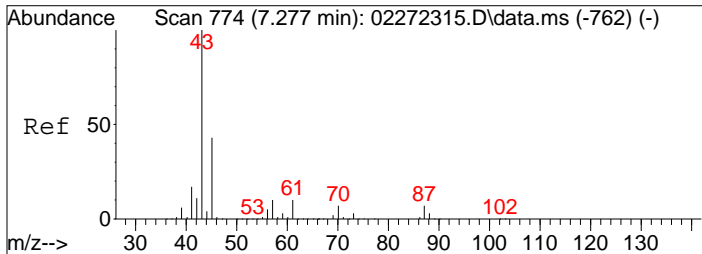
Tgt Ion: 72 Resp: 29487
 Ion Ratio Lower Upper
 72 100
 43 528.7 536.0 576.0#



#30
 Ethyl Acetate
 Concen: 5.01 ng
 RT: 7.26 min Scan# 771
 Delta R.T. -0.017 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

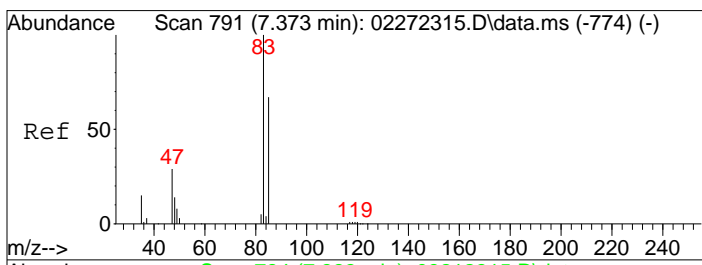
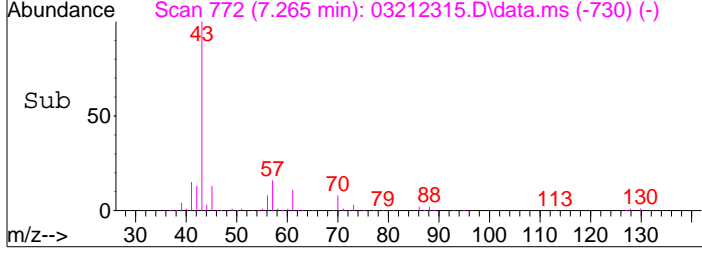
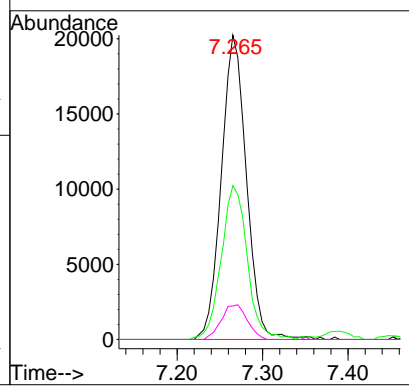
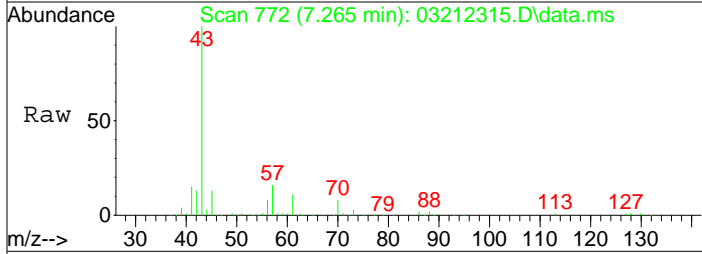
Tgt Ion: 61 Resp: 36553
 Ion Ratio Lower Upper
 61 100
 70 75.1 55.8 95.8





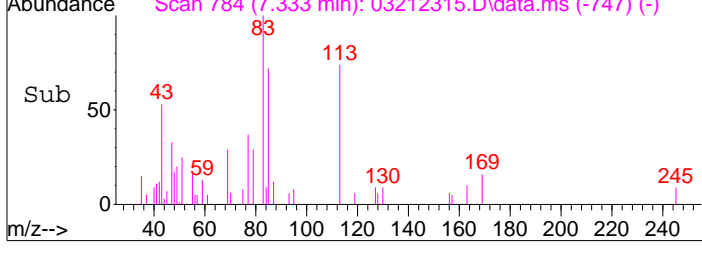
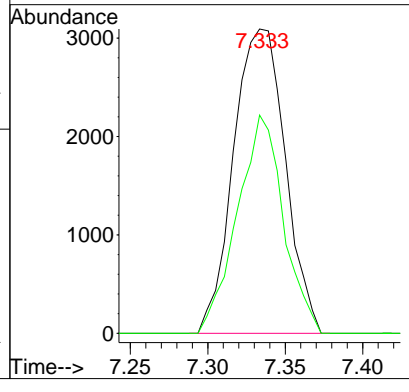
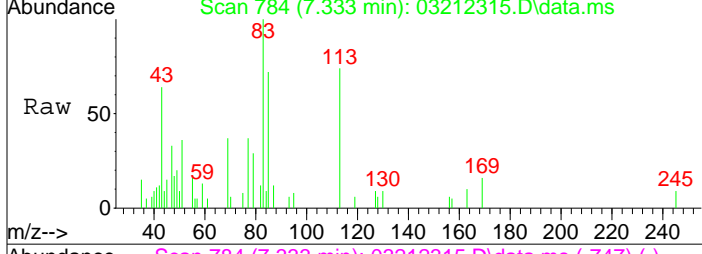
#31
 n-Hexane
 Concen: 1.36 ng
 RT: 7.27 min Scan# 772
 Delta R.T. -0.011 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

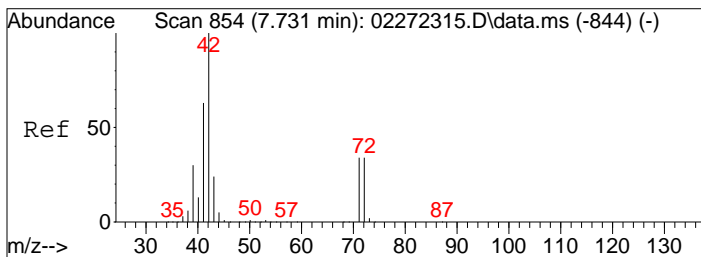
Tgt Ion	Resp	Lower	Upper
57	100		
56	52.4	43.3	64.9
86	11.8	10.2	15.2



#32
 Chloroform
 Concen: 0.22 ng
 RT: 7.33 min Scan# 784
 Delta R.T. -0.040 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

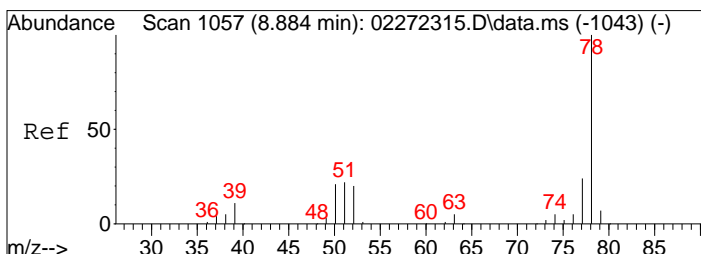
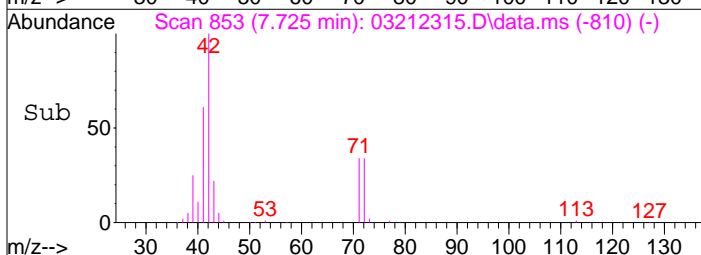
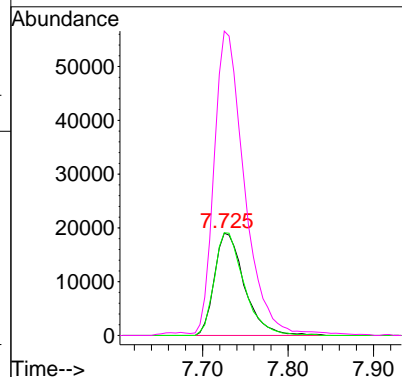
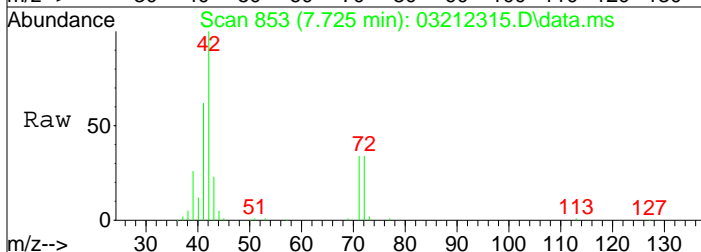
Tgt Ion	Resp	Lower	Upper
83	100		
85	63.7	46.3	86.3





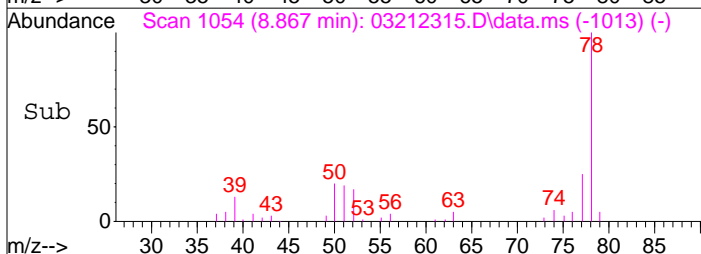
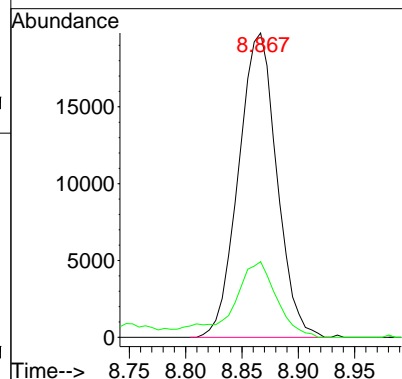
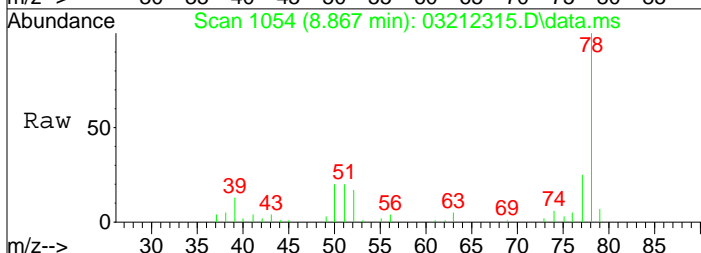
#34
 Tetrahydrofuran (THF)
 Concen: 4.90 ng
 RT: 7.73 min Scan# 853
 Delta R.T. -0.006 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

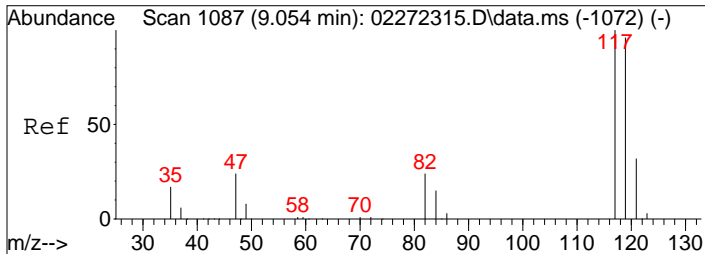
Tgt Ion: 72 Resp: 46543
 Ion Ratio Lower Upper
 72 100
 71 99.4 81.3 121.3
 42 302.6 293.7 333.7



#41
 Benzene
 Concen: 0.74 ng
 RT: 8.87 min Scan# 1054
 Delta R.T. -0.017 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

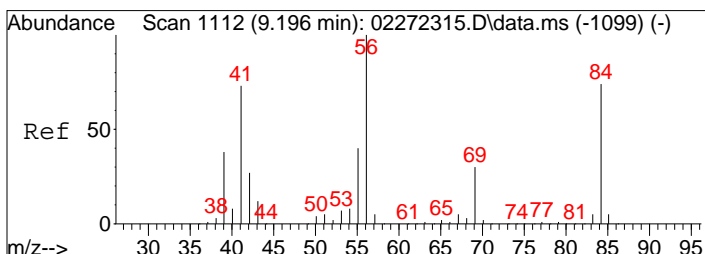
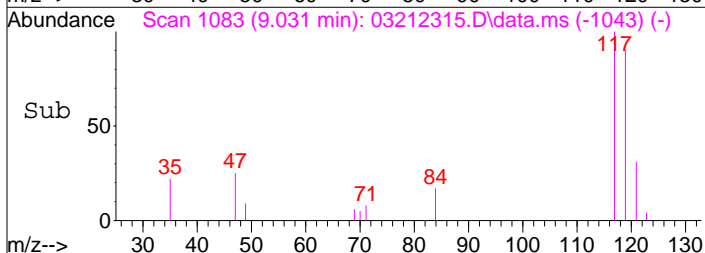
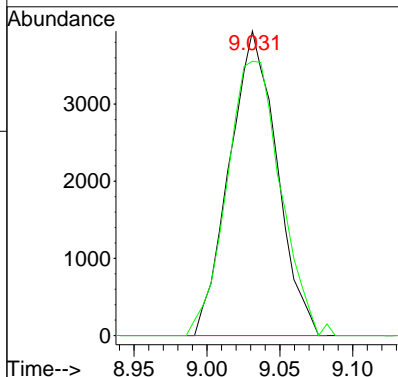
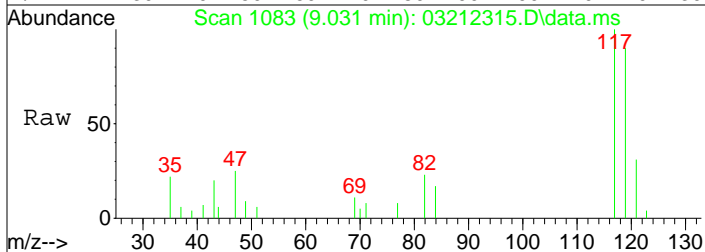
Tgt Ion: 78 Resp: 46715
 Ion Ratio Lower Upper
 78 100
 77 28.7 4.0 44.0





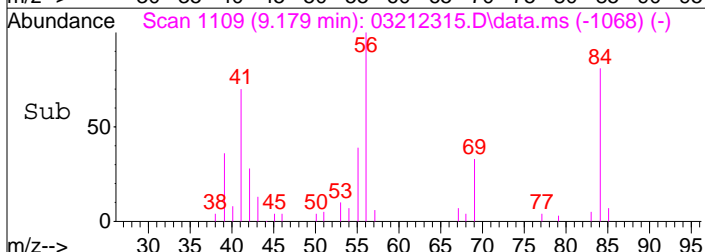
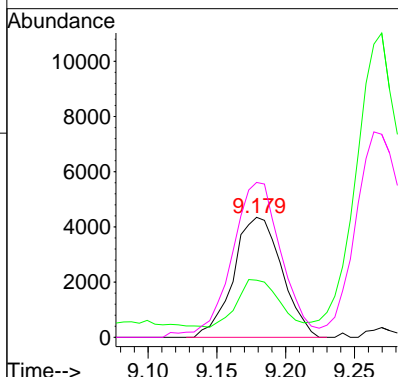
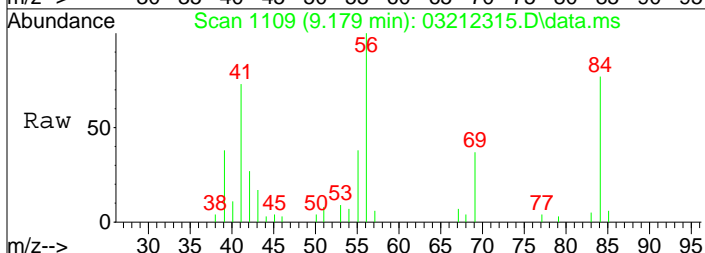
#42
 Carbon Tetrachloride
 Concen: 0.32 ng
 RT: 9.03 min Scan# 1083
 Delta R.T. -0.023 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

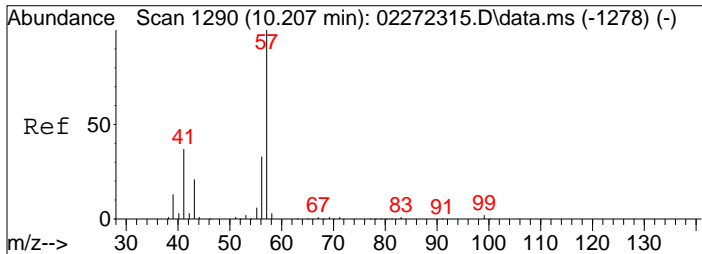
Tgt Ion: 117 Resp: 8945
 Ion Ratio Lower Upper
 117 100
 119 101.9 75.5 115.5



#43
 Cyclohexane
 Concen: 0.45 ng
 RT: 9.18 min Scan# 1109
 Delta R.T. -0.017 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

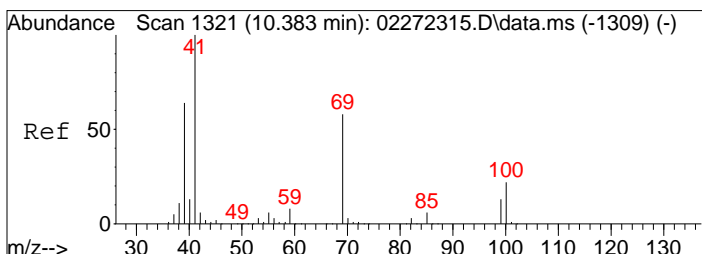
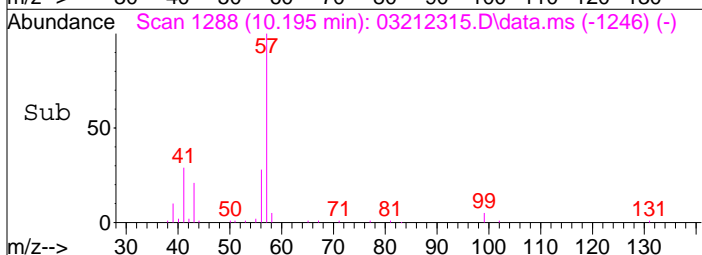
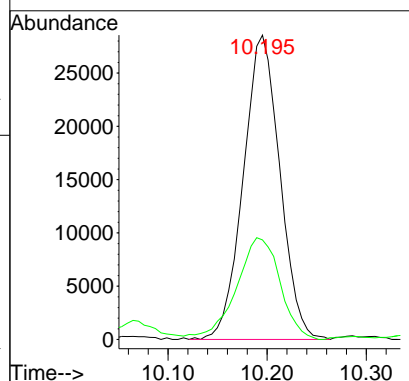
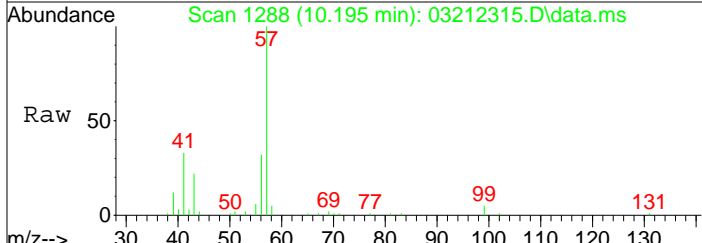
Tgt Ion: 84 Resp: 10608
 Ion Ratio Lower Upper
 84 100
 69 33.9 20.6 60.6
 56 133.1 116.1 156.1





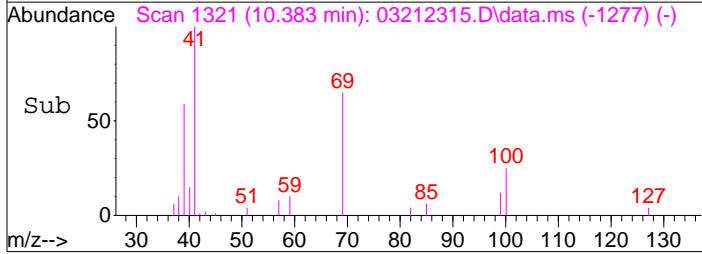
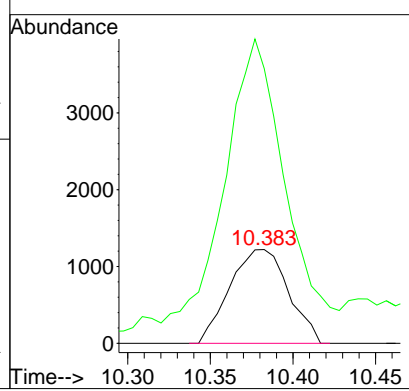
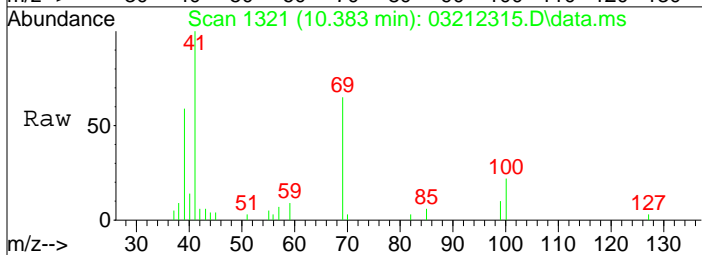
#49
 2,2,4-Trimethylpentane (Isooctane)
 Concen: 0.94 ng
 RT: 10.20 min Scan# 1288
 Delta R.T. -0.011 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

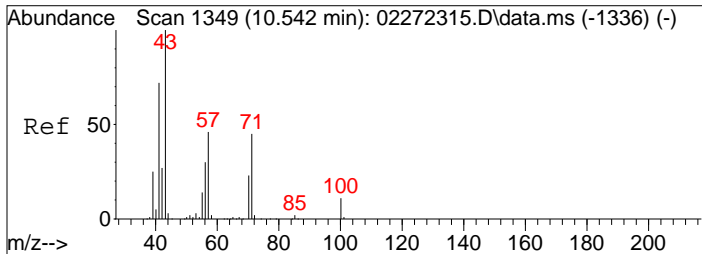
Tgt Ion	Resp	Lower	Upper
57	73221		
41	100	17.1	57.1



#50
 Methyl Methacrylate
 Concen: 0.50 ng
 RT: 10.38 min Scan# 1321
 Delta R.T. -0.000 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

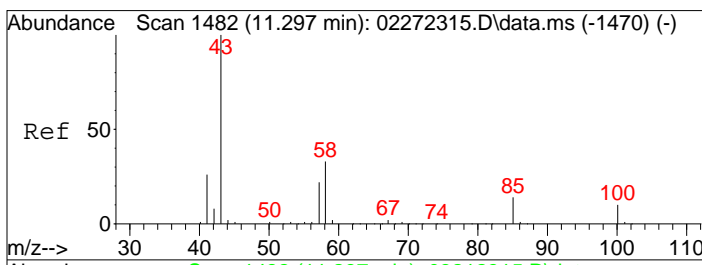
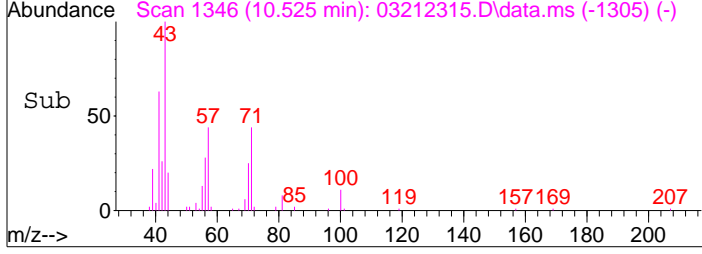
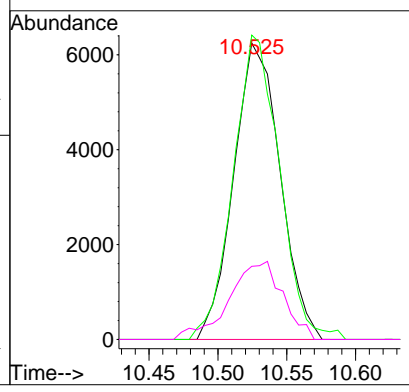
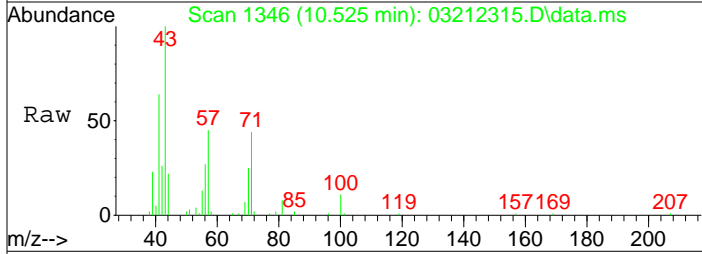
Tgt Ion	Resp	Lower	Upper
100	3011		
69	100	241.7	281.7#





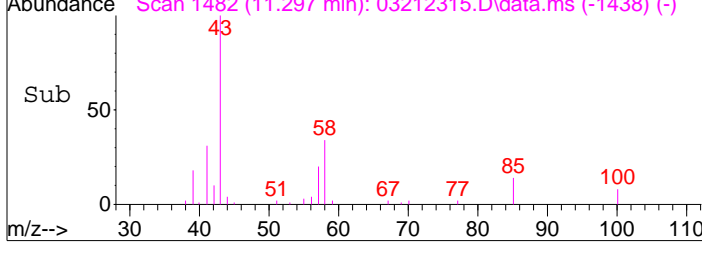
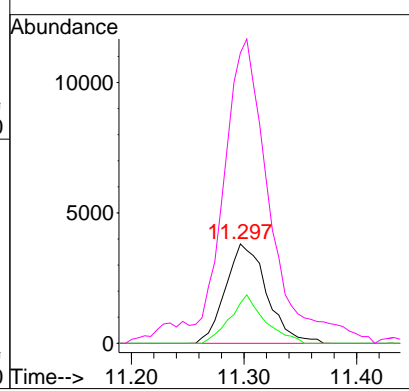
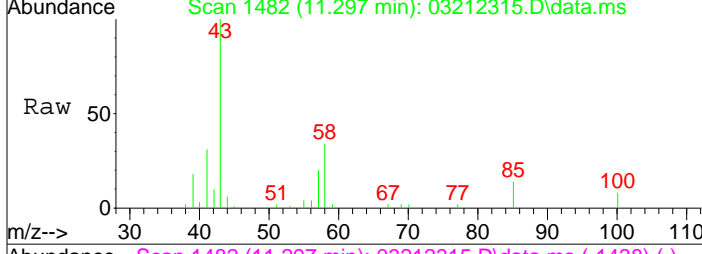
#51
 n-Heptane
 Concen: 0.93 ng
 RT: 10.52 min Scan# 1346
 Delta R.T. -0.017 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

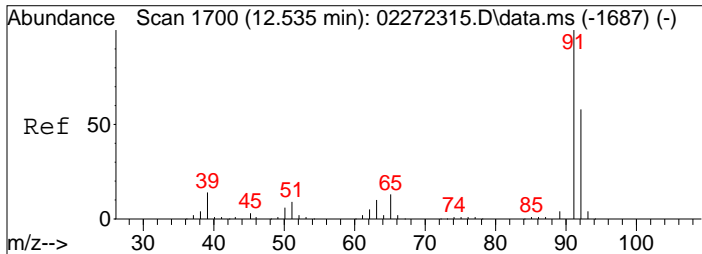
Tgt Ion:	71	Resp:	14677
Ion Ratio	Lower	Upper	
71	100		
57	102.1	84.6	124.6
100	30.3	5.8	45.8



#53
 4-Methyl-2-pentanone
 Concen: 0.62 ng
 RT: 11.30 min Scan# 1482
 Delta R.T. -0.000 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

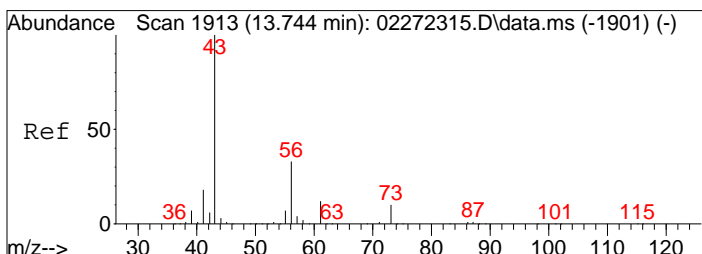
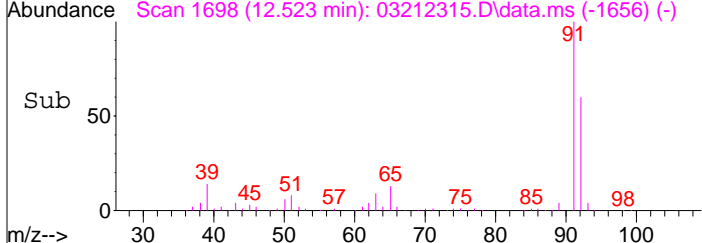
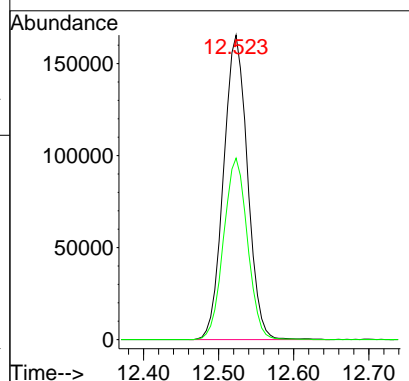
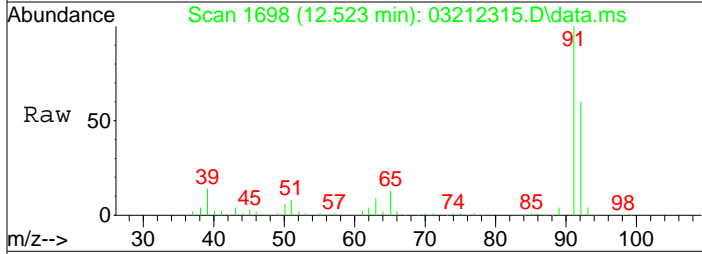
Tgt Ion:	58	Resp:	9685
Ion Ratio	Lower	Upper	
58	100		
85	41.2	35.7	53.5
43	340.0	242.9	364.3





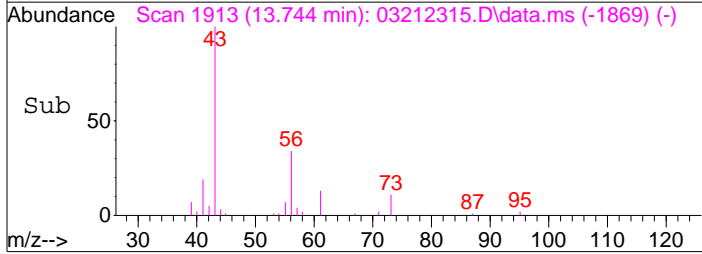
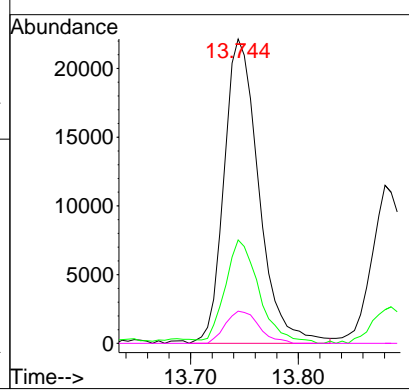
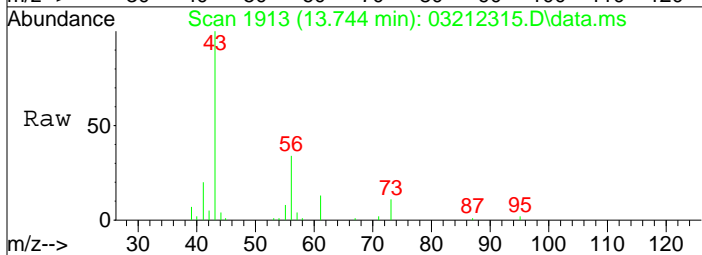
#58
 Toluene
 Concen: 5.39 ng
 RT: 12.52 min Scan# 1698
 Delta R.T. -0.011 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

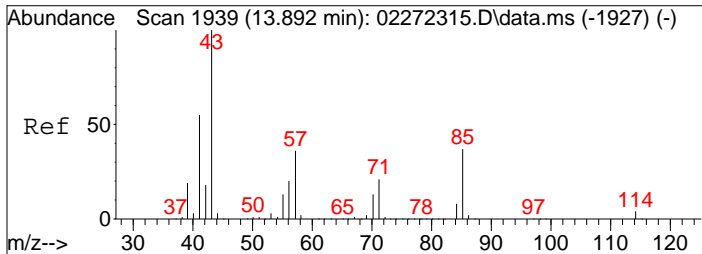
Tgt Ion	Resp	Lower	Upper
91	100		
92	59.6	37.6	77.6



#62
 n-Butyl Acetate
 Concen: 1.05 ng
 RT: 13.74 min Scan# 1913
 Delta R.T. -0.000 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

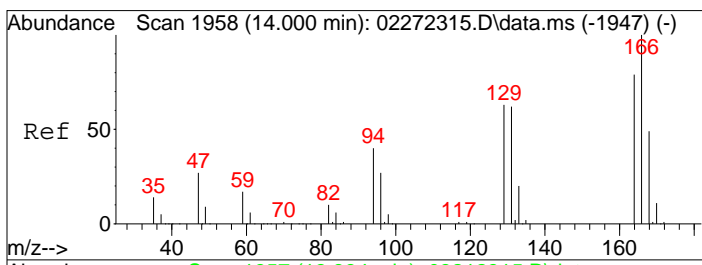
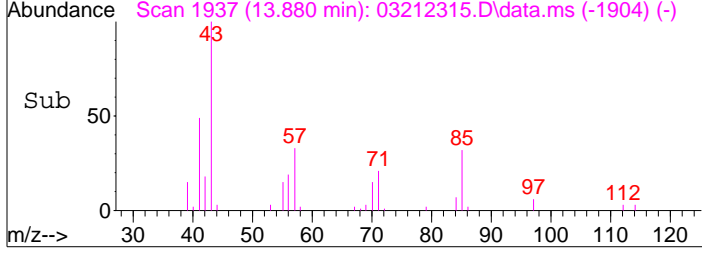
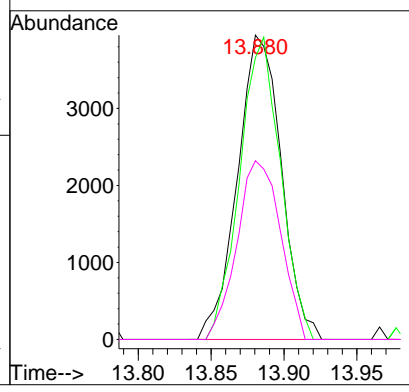
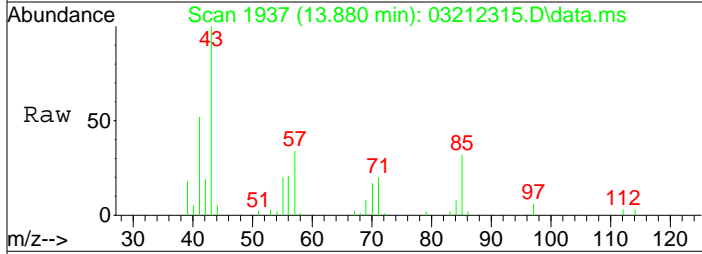
Tgt Ion	Resp	Lower	Upper
43	100		
56	33.2	13.1	53.1
73	10.2	0.0	29.9





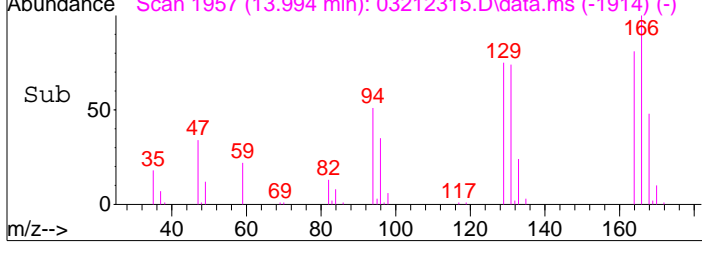
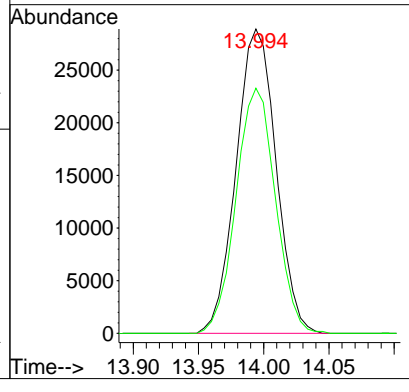
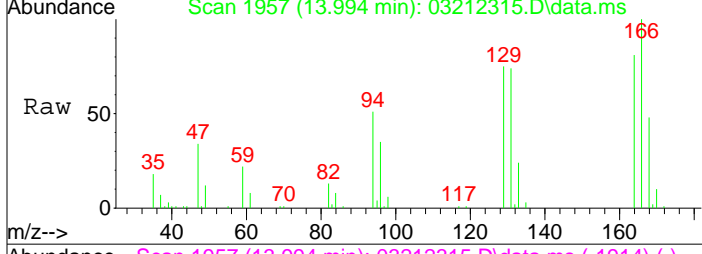
#63
 n-Octane
 Concen: 0.56 ng
 RT: 13.88 min Scan# 1937
 Delta R.T. -0.011 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

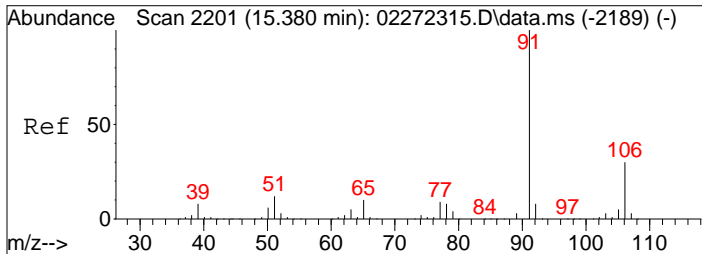
Tgt Ion:	Resp:	Lower	Upper
57	100		
85	92.2	82.4	123.6
71	58.3	47.8	71.6



#64
 Tetrachloroethene
 Concen: 2.63 ng
 RT: 13.99 min Scan# 1957
 Delta R.T. -0.006 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

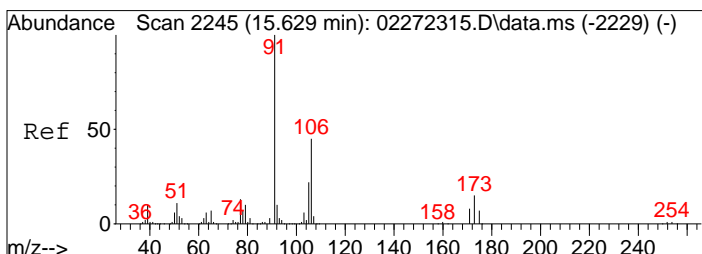
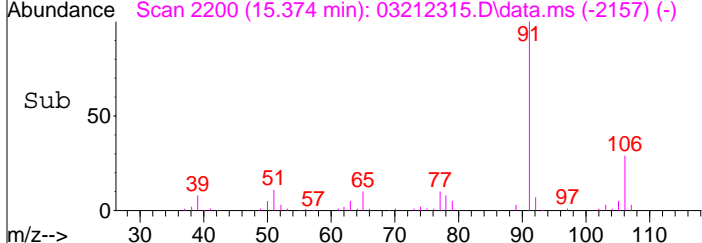
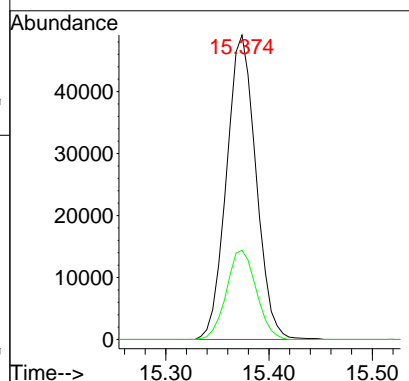
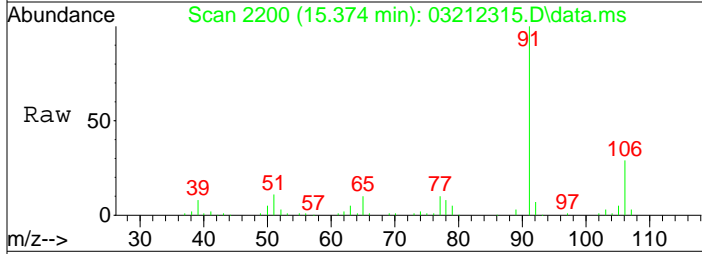
Tgt Ion:	Resp:	Lower	Upper
166	100		
164	79.3	58.6	98.6





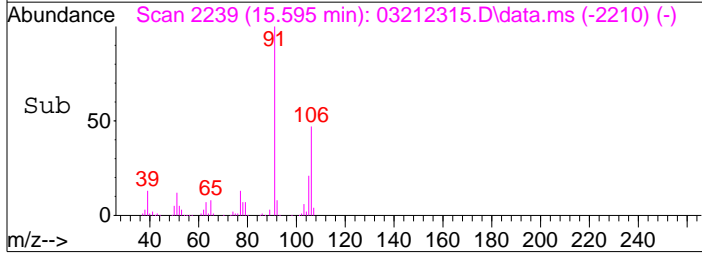
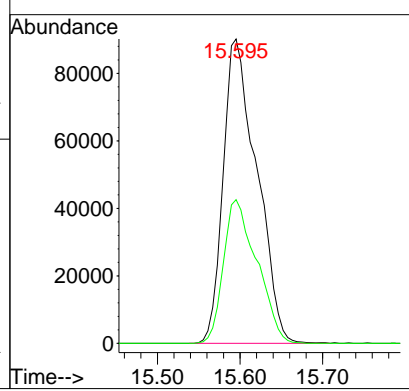
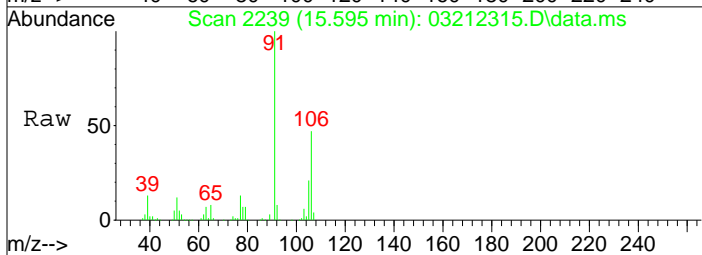
#66
 Ethylbenzene
 Concen: 1.25 ng
 RT: 15.37 min Scan# 2200
 Delta R.T. -0.006 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

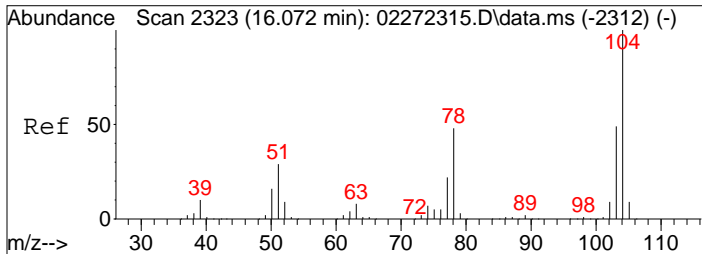
Tgt Ion:	91	Resp:	97326
Ion Ratio	Lower	Upper	
91	100		
106	29.7	10.3	50.3



#67
 m- & p-Xylenes
 Concen: 3.99 ng
 RT: 15.60 min Scan# 2239
 Delta R.T. -0.034 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

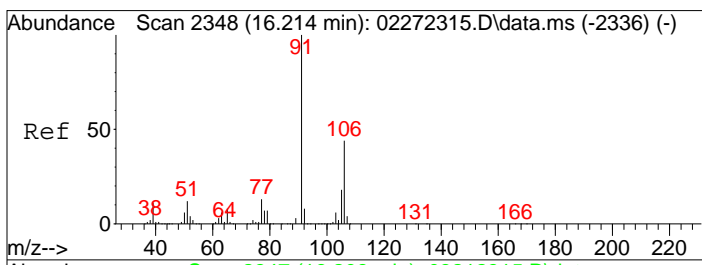
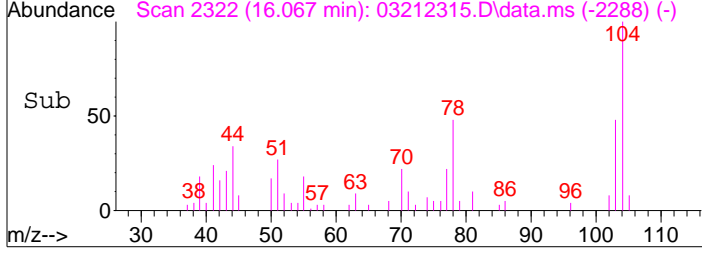
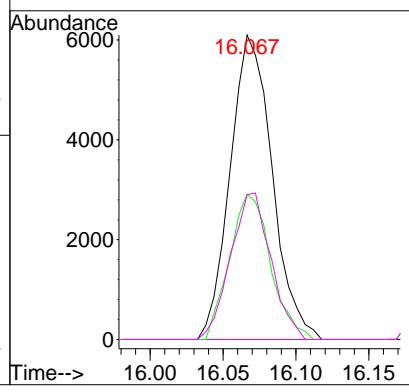
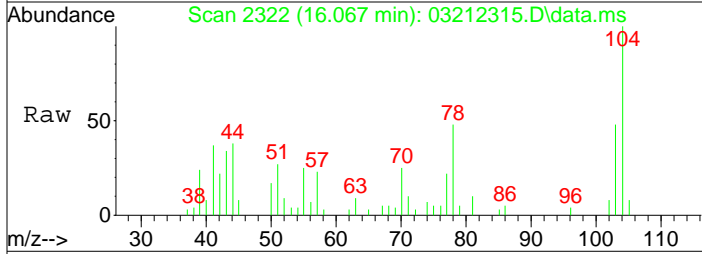
Tgt Ion:	91	Resp:	254992
Ion Ratio	Lower	Upper	
91	100		
106	46.9	25.0	65.0





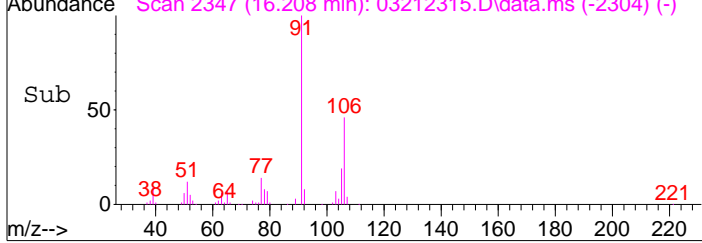
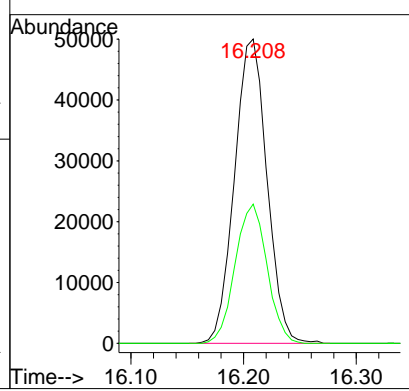
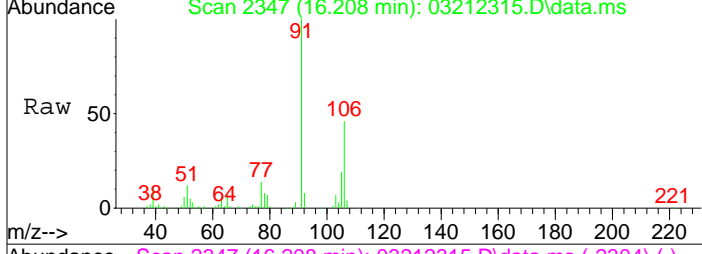
#69
 Styrene
 Concen: 0.30 ng
 RT: 16.07 min Scan# 2322
 Delta R.T. -0.006 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

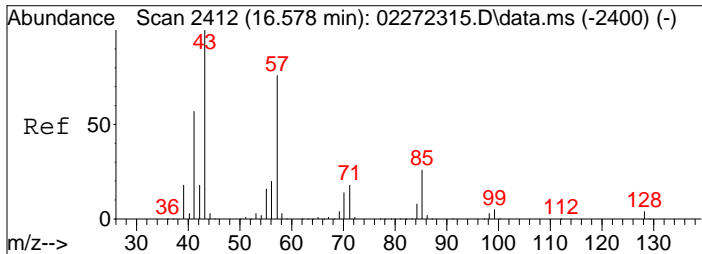
Tgt Ion	Resp	Lower	Upper
104	100		
78	46.6	29.2	69.2
103	46.1	29.2	69.2



#70
 o-Xylene
 Concen: 1.59 ng
 RT: 16.21 min Scan# 2347
 Delta R.T. -0.006 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

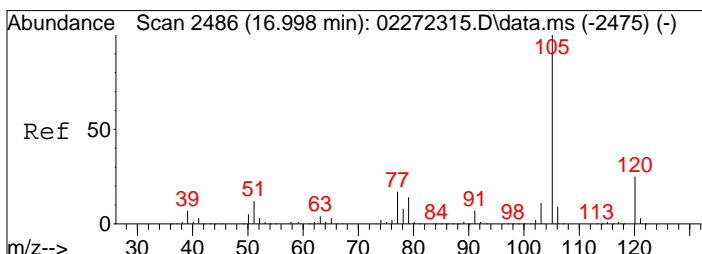
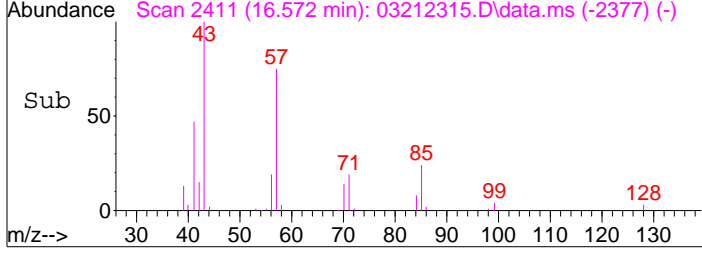
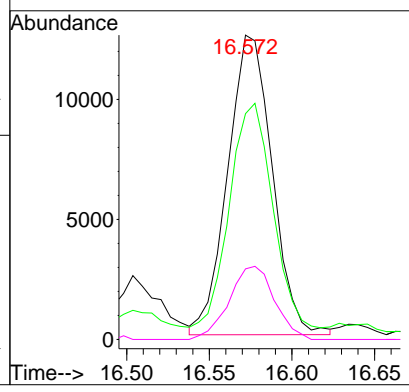
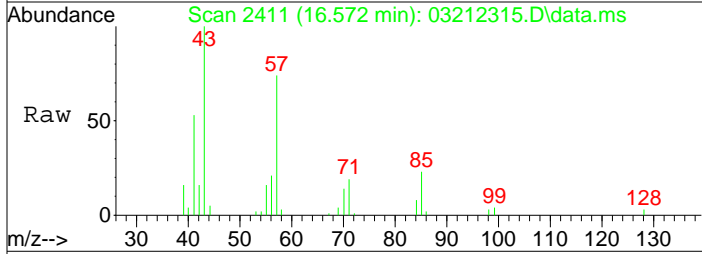
Tgt Ion	Resp	Lower	Upper
91	100		
106	44.9	24.0	64.0





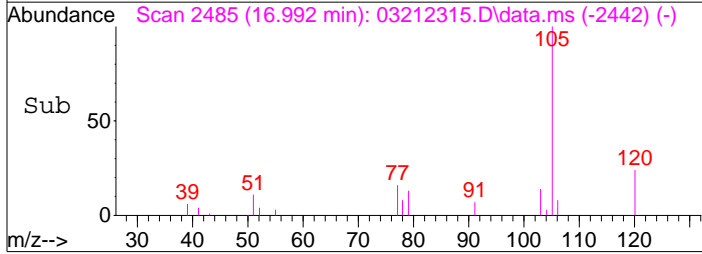
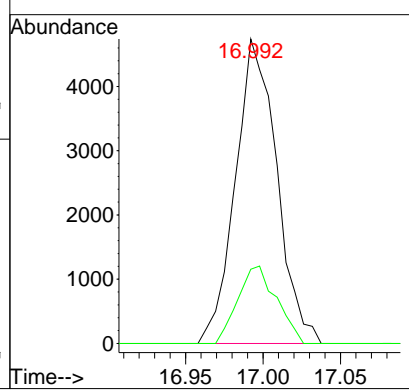
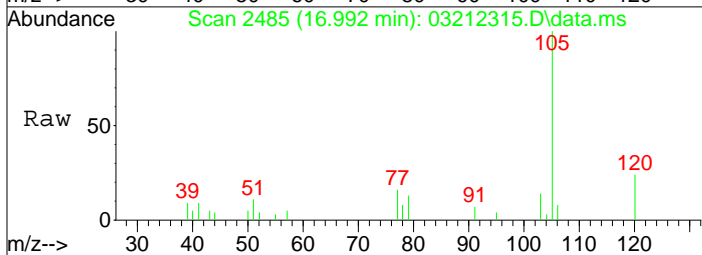
#71
 n-Nonane
 Concen: 0.59 ng
 RT: 16.57 min Scan# 2411
 Delta R.T. -0.006 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

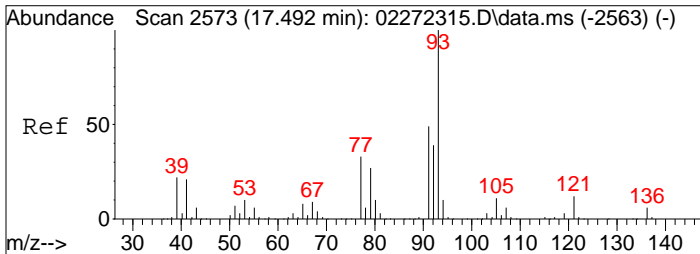
Tgt Ion:	Resp:	Lower	Upper
43	100		
57	76.9	56.2	96.2
85	24.9	6.1	46.1



#74
 Cumene
 Concen: 0.11 ng
 RT: 16.99 min Scan# 2485
 Delta R.T. -0.006 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

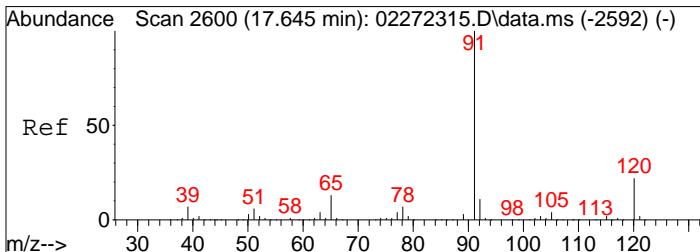
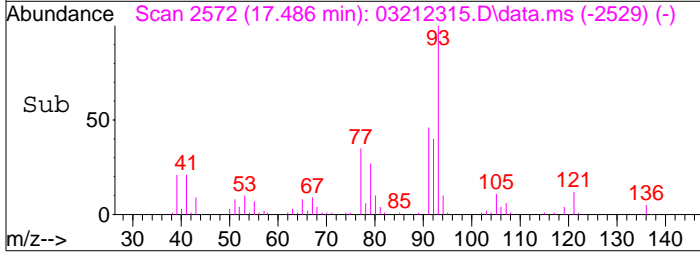
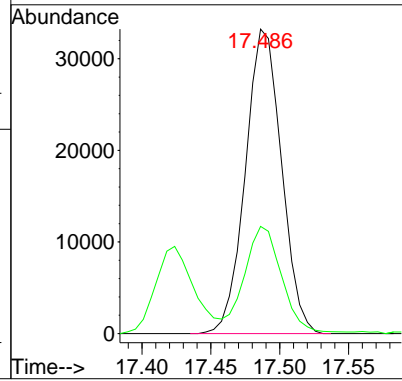
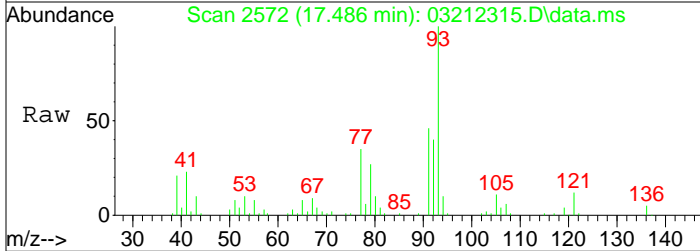
Tgt Ion:	Resp:	Lower	Upper
105	100		
120	23.7	4.6	44.6





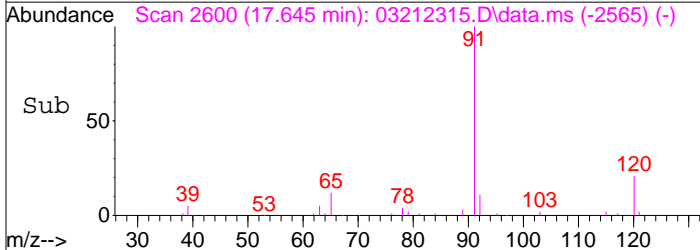
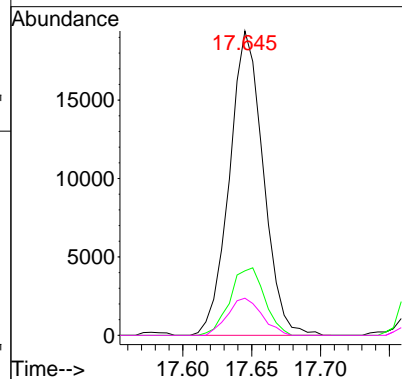
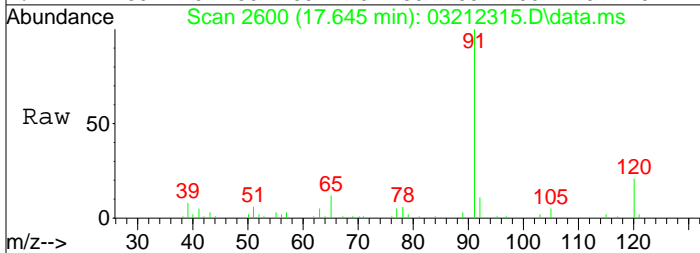
#75
 alpha-Pinene
 Concen: 1.85 ng
 RT: 17.49 min Scan# 2572
 Delta R.T. -0.006 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

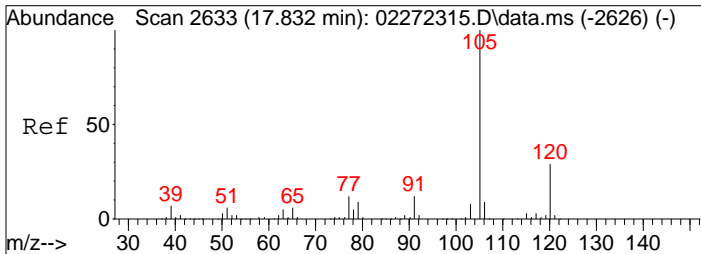
Tgt Ion	Resp	Lower	Upper
93	60615		
93	100		
77	36.8	14.2	54.2



#76
 n-Propylbenzene
 Concen: 0.36 ng
 RT: 17.65 min Scan# 2600
 Delta R.T. -0.000 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

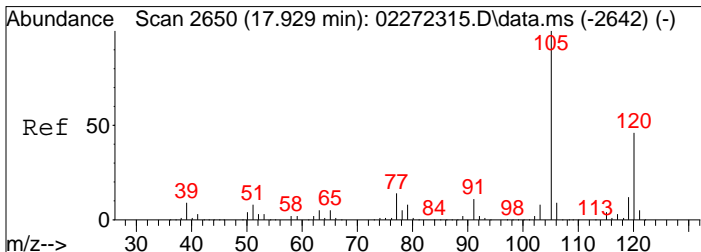
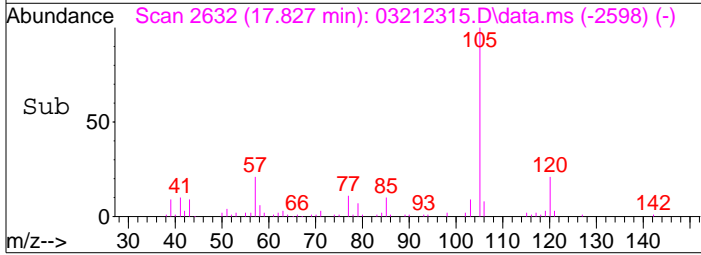
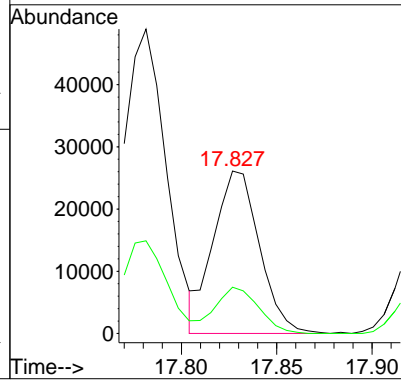
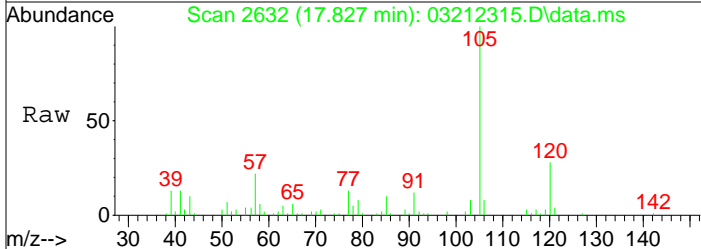
Tgt Ion	Resp	Lower	Upper
91	33196		
91	100		
120	22.7	2.0	42.0
65	12.4	0.0	32.3





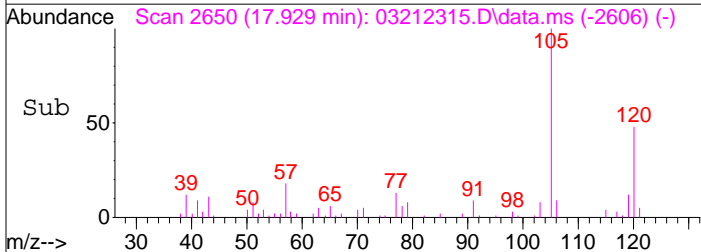
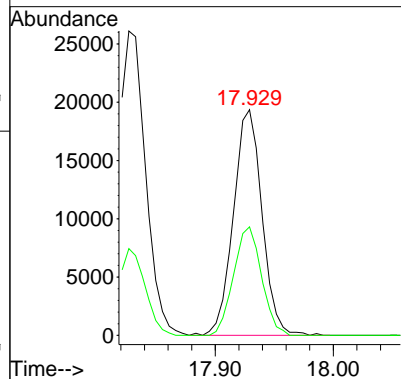
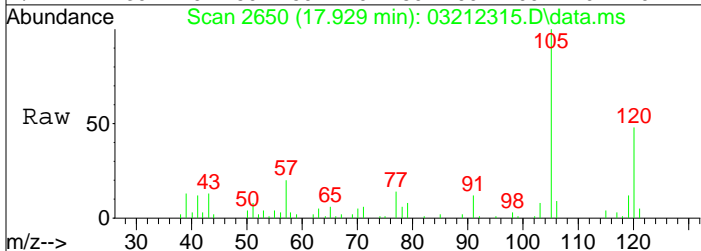
#78
 4-Ethyltoluene
 Concen: 0.60 ng
 RT: 17.83 min Scan# 2632
 Delta R.T. -0.006 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

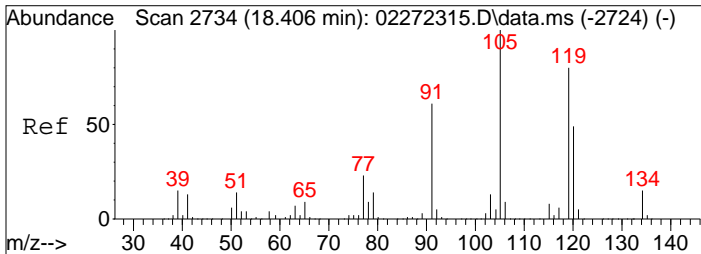
Tgt Ion	Resp	Lower	Upper
105	100		
120	27.5	8.5	48.5



#79
 1,3,5-Trimethylbenzene
 Concen: 0.49 ng
 RT: 17.93 min Scan# 2650
 Delta R.T. -0.000 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

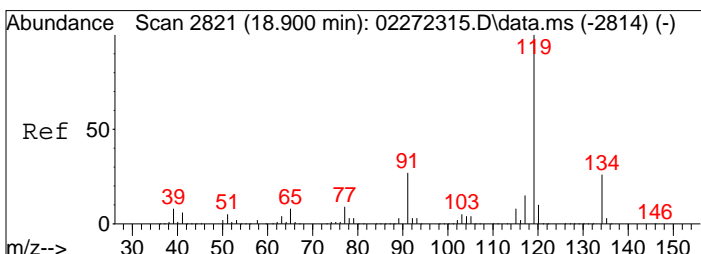
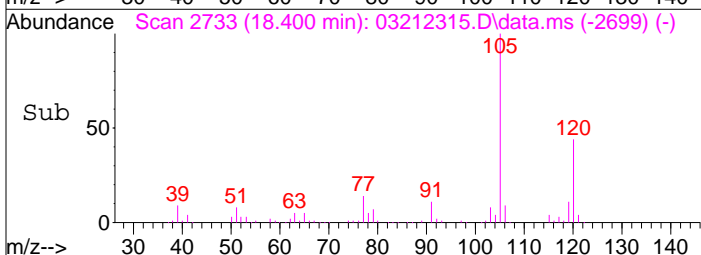
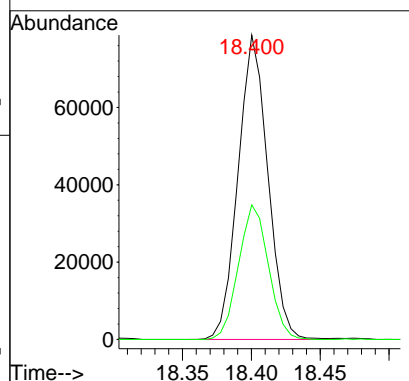
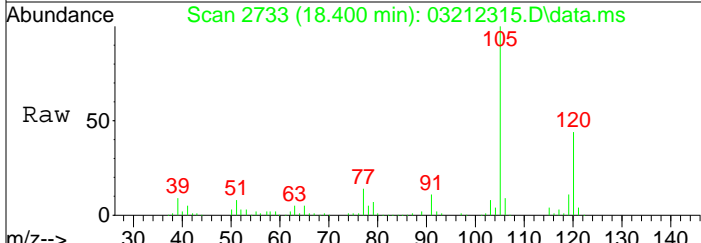
Tgt Ion	Resp	Lower	Upper
105	100		
120	46.9	25.5	65.5





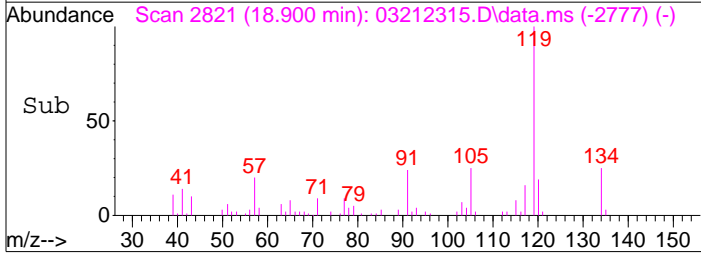
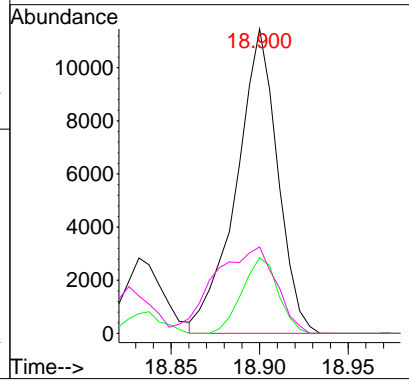
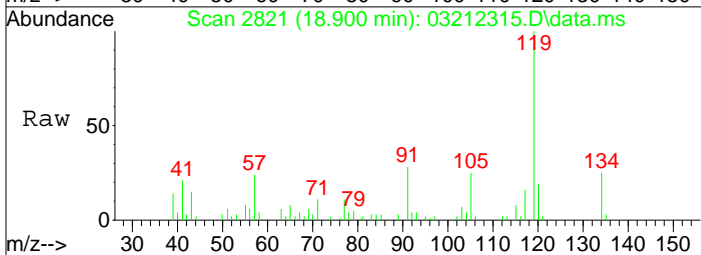
#82
 1,2,4-Trimethylbenzene
 Concen: 1.76 ng
 RT: 18.40 min Scan# 2733
 Delta R.T. -0.006 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

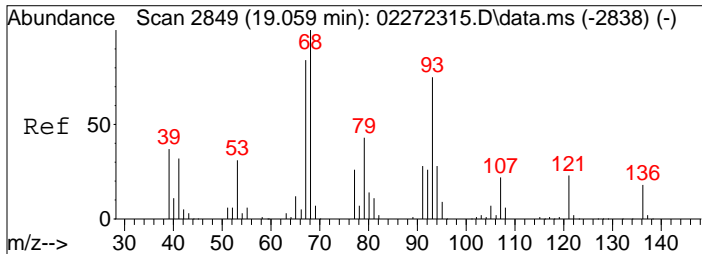
Tgt Ion	Resp	Lower	Upper
105	118261		
120	44.3	30.5	70.5



#88
 4-Isopropyltoluene (p-Cymene)
 Concen: 0.24 ng
 RT: 18.90 min Scan# 2821
 Delta R.T. -0.000 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

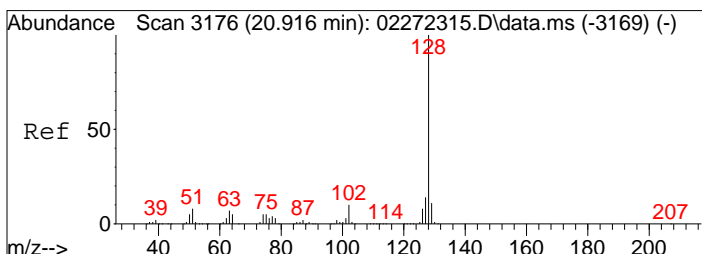
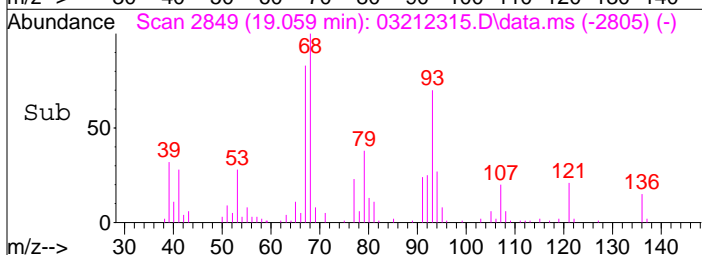
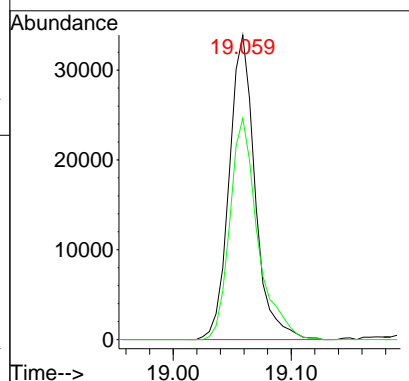
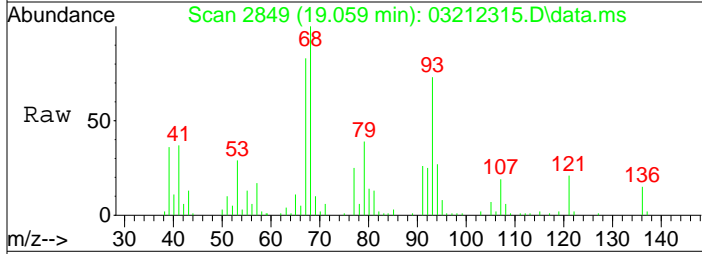
Tgt Ion	Resp	Lower	Upper
119	18576		
134	21.8	5.7	45.7
91	42.5	6.8	46.8





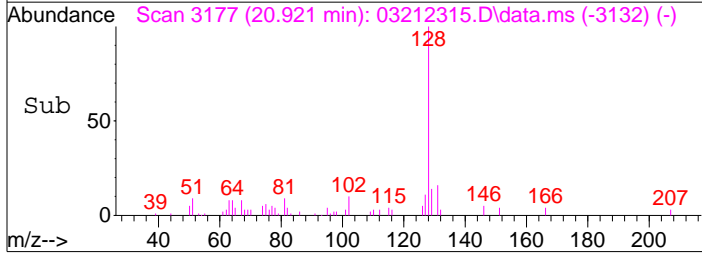
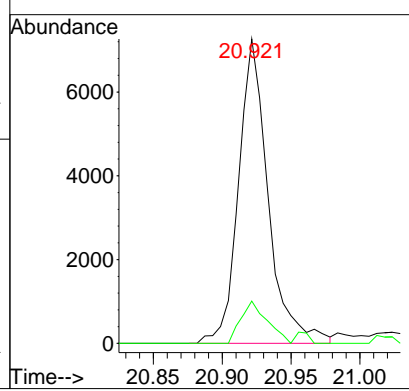
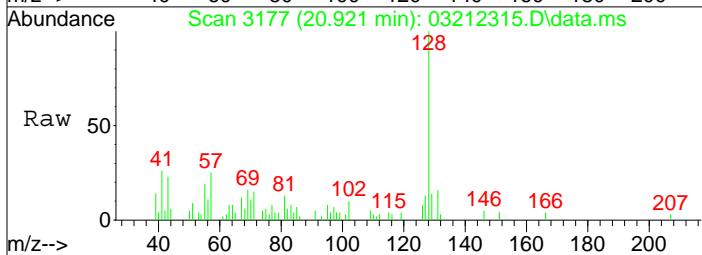
#91
 d-Limonene
 Concen: 2.31 ng
 RT: 19.06 min Scan# 2849
 Delta R.T. -0.000 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

Tgt Ion:	Resp:	Lower	Upper
68	51767		
68	100		
93	78.4	55.7	95.7



#95
 Naphthalene
 Concen: 0.18 ng
 RT: 20.92 min Scan# 3177
 Delta R.T. 0.006 min
 Lab File: 03212315.D
 Acq: 21 Mar 2023 12:53

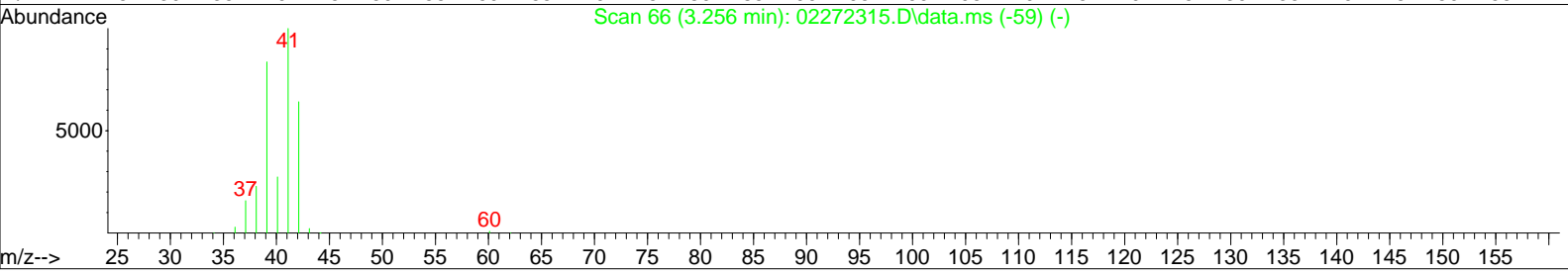
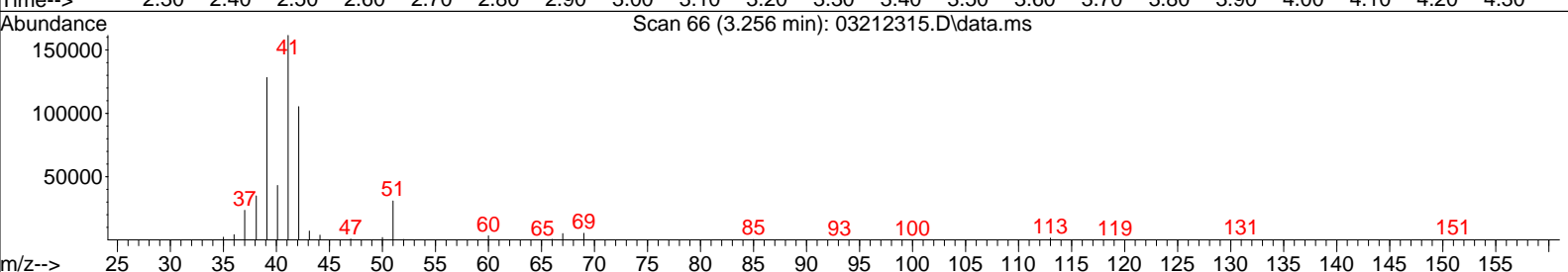
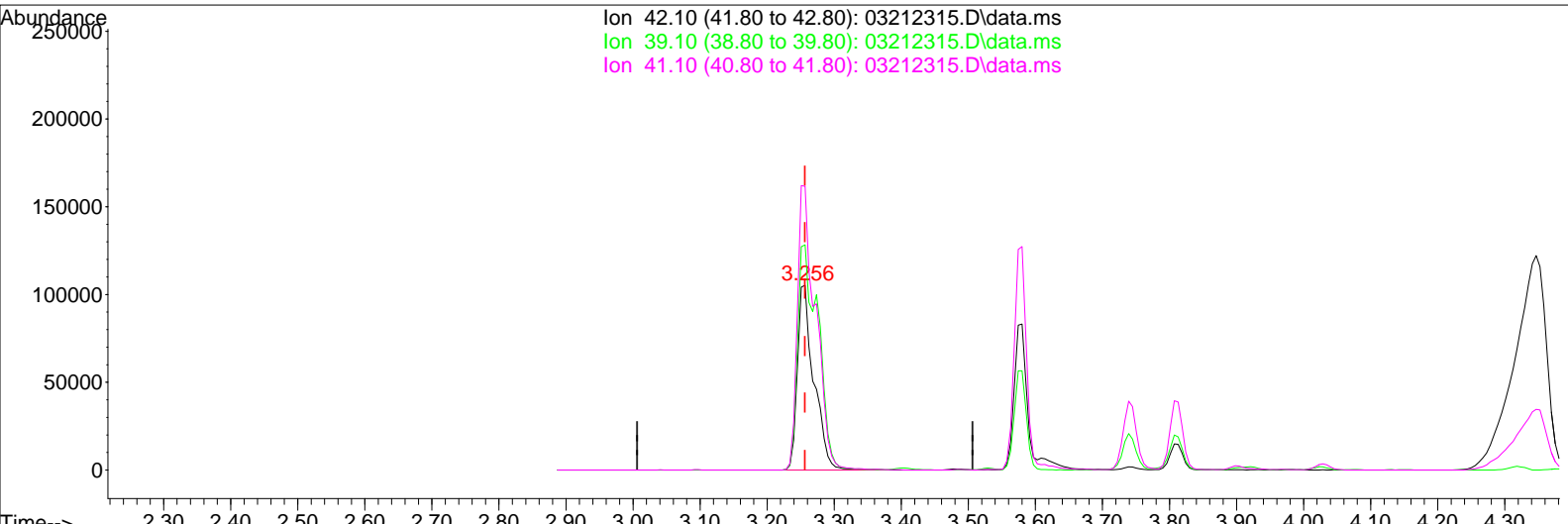
Tgt Ion:	Resp:	Lower	Upper
128	10894		
128	100		
129	12.3	0.0	31.0



Data File : I:\MS09\DATA\2023 03\21\03212315.D
 Acq On : 21 Mar 2023 12:53
 Sample : P2301184-004 (1000ml)
 Misc : S35-02212305

Vial: 7
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 21 13:15:01 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



TIC: 03212315.D\data.ms

(2) Propene (T)

3.256min (+0.000) 8.18ng

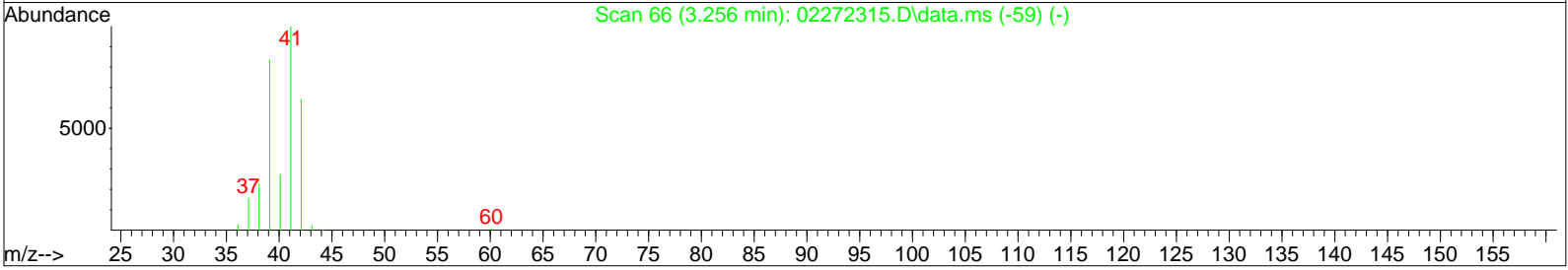
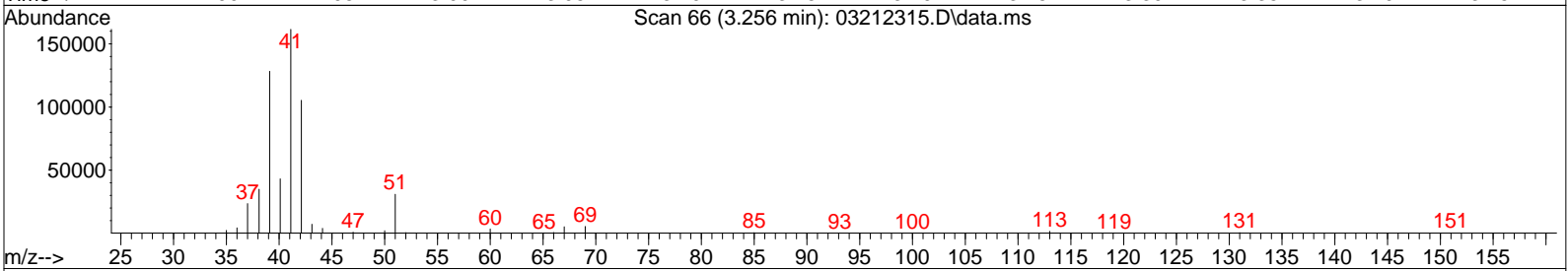
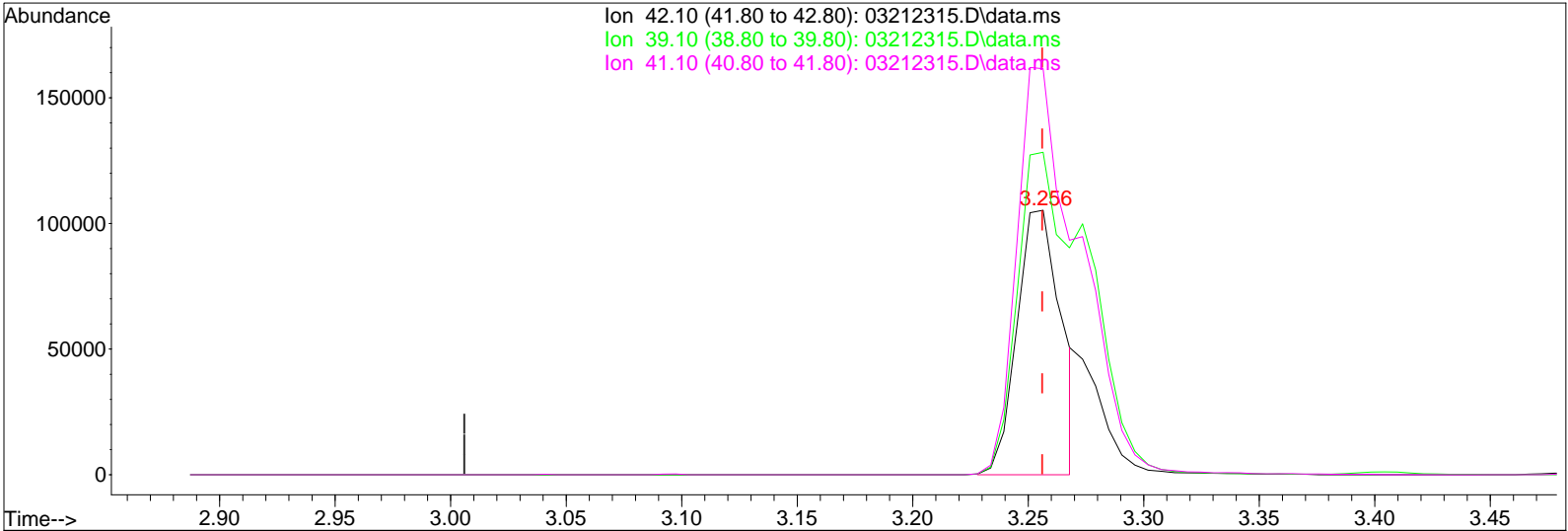
response 180237

Ion	Exp%	Act%
42.10	100	100
39.10	130.00	152.76#
41.10	155.80	170.62
0.00	0.00	0.00

Data File : I:\MS09\DATA\2023 03\21\03212315.D
 Acq On : 21 Mar 2023 12:53
 Sample : P2301184-004 (1000ml)
 Misc : S35-02212305

Vial: 7
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 21 13:15:01 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



TIC: 03212315.D\data.ms

(2) Propene (T)

3.256min (+0.000) 6.34ng m

response 139564

IPC

Ion	Exp%	Act%
42.10	100	100
39.10	130.00	130.52
41.10	155.80	159.58
0.00	0.00	0.00

WA 3/21/23

Tz 3/22/23

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: New York State DEC
Client Sample ID: Building-2-SS1-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-005

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01101

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.99 Final Pressure (psig): 3.51

Canister Dilution Factor: 1.33

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.70	ND	0.41	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.8	0.70	0.77	0.14	
74-87-3	Chloromethane	ND	0.28	ND	0.14	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.69	ND	0.099	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.057	
106-99-0	1,3-Butadiene	ND	0.28	ND	0.13	
74-83-9	Bromomethane	ND	0.28	ND	0.072	
75-00-3	Chloroethane	ND	0.28	ND	0.11	
64-17-5	Ethanol	7.4	6.7	3.9	3.5	
75-05-8	Acetonitrile	ND	1.3	ND	0.79	
107-02-8	Acrolein	ND	1.3	ND	0.58	
67-64-1	Acetone	ND	7.0	ND	3.0	
75-69-4	Trichlorofluoromethane (CFC 11)	2.5	0.69	0.44	0.12	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.5	1.4	1.4	0.55	
107-13-1	Acrylonitrile	ND	1.3	ND	0.61	
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.037	
75-09-2	Methylene Chloride	ND	0.70	ND	0.20	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.70	ND	0.23	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.72	ND	0.094	
75-15-0	Carbon Disulfide	ND	1.4	ND	0.46	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.037	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.036	
1634-04-4	Methyl tert-Butyl Ether	ND	0.72	ND	0.20	
108-05-4	Vinyl Acetate	ND	6.7	ND	1.9	
78-93-3	2-Butanone (MEK)	ND	1.4	ND	0.47	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3

Client: New York State DEC
Client Sample ID: Building-2-SS1-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-005

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01101

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.99 Final Pressure (psig): 3.51

Canister Dilution Factor: 1.33

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.15	ND	0.037	
141-78-6	Ethyl Acetate	ND	2.8	ND	0.78	
110-54-3	n-Hexane	ND	0.70	ND	0.20	
67-66-3	Chloroform	0.37	0.15	0.077	0.030	
109-99-9	Tetrahydrofuran (THF)	1.3	0.67	0.44	0.23	
107-06-2	1,2-Dichloroethane	ND	0.15	ND	0.036	
71-55-6	1,1,1-Trichloroethane	1.8	0.15	0.33	0.027	
71-43-2	Benzene	0.25	0.15	0.078	0.046	
56-23-5	Carbon Tetrachloride	1.0	0.15	0.16	0.023	
110-82-7	Cyclohexane	ND	1.4	ND	0.41	
78-87-5	1,2-Dichloropropane	ND	0.15	ND	0.032	
75-27-4	Bromodichloromethane	ND	0.15	ND	0.022	
79-01-6	Trichloroethene	ND	0.15	ND	0.027	
123-91-1	1,4-Dioxane	ND	0.70	ND	0.20	
80-62-6	Methyl Methacrylate	ND	1.5	ND	0.36	
142-82-5	n-Heptane	ND	0.70	ND	0.17	
10061-01-5	cis-1,3-Dichloropropene	ND	0.72	ND	0.16	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.36	
10061-02-6	trans-1,3-Dichloropropene	ND	0.68	ND	0.15	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.027	
108-88-3	Toluene	4.8	0.70	1.3	0.19	
591-78-6	2-Hexanone	ND	1.5	ND	0.36	
124-48-1	Dibromochloromethane	ND	0.15	ND	0.017	
106-93-4	1,2-Dibromoethane	ND	0.15	ND	0.019	
123-86-4	n-Butyl Acetate	ND	1.3	ND	0.28	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3 of 3

Client: New York State DEC
Client Sample ID: Building-2-SS1-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-005

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01101

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.99 Final Pressure (psig): 3.51

Canister Dilution Factor: 1.33

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.72	ND	0.15	
127-18-4	Tetrachloroethene	0.47	0.15	0.070	0.022	
108-90-7	Chlorobenzene	ND	0.70	ND	0.15	
100-41-4	Ethylbenzene	ND	0.70	ND	0.16	
179601-23-1	m,p-Xylenes	2.1	1.5	0.48	0.34	
75-25-2	Bromoform	ND	0.72	ND	0.069	
100-42-5	Styrene	ND	0.70	ND	0.17	
95-47-6	o-Xylene	0.76	0.70	0.17	0.16	
111-84-2	n-Nonane	ND	0.70	ND	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.021	
98-82-8	Cumene	ND	0.72	ND	0.15	
80-56-8	alpha-Pinene	ND	1.5	ND	0.26	
103-65-1	n-Propylbenzene	ND	0.72	ND	0.15	
622-96-8	4-Ethyltoluene	ND	0.73	ND	0.15	
108-67-8	1,3,5-Trimethylbenzene	ND	0.70	ND	0.14	
95-63-6	1,2,4-Trimethylbenzene	ND	0.70	ND	0.14	
100-44-7	Benzyl Chloride	ND	2.8	ND	0.54	
541-73-1	1,3-Dichlorobenzene	ND	0.70	ND	0.12	
106-46-7	1,4-Dichlorobenzene	ND	0.70	ND	0.12	
95-50-1	1,2-Dichlorobenzene	ND	0.72	ND	0.12	
5989-27-5	d-Limonene	ND	1.5	ND	0.26	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.5	ND	0.15	
120-82-1	1,2,4-Trichlorobenzene	ND	1.5	ND	0.20	
91-20-3	Naphthalene	ND	0.73	ND	0.14	
87-68-3	Hexachlorobutadiene	ND	0.70	ND	0.066	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Data File : I:\MS09\DATA\2023 03\21\03212317.D
 Acq On : 21 Mar 2023 14:25
 Sample : P2301184-005 (1000ml)
 Misc : S35-02212305

Vial: 8
 Operator: WA/SR
 Inst : MS09

3/22/23

Quant Time: Mar 21 21:39:57 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.20	130	171852	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	9.26	114	778024	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.81	54	176576	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.96	65	371760	12.778	ng	-0.04
Spiked Amount	12.500	Range 70 - 130	Recovery	=	102.24%	
57) Toluene-d8 (SS2)	12.39	98	921553	13.735	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	109.92%	
73) Bromofluorobenzene (SS3)	16.79	174	280669	10.259	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	82.08%	

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	3.34	85	113959	2.872	ng	99
4) Chloromethane	3.49	50	2363	0.095	ng	85
5) 1,2-Dichloro-1,1,2,2-t...	3.60	135	1303	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	3.82	54	483	N.D.		
8) Bromomethane	4.01	94	120	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	4.27	45	90853	5.571	ng	99
11) Acetonitrile	4.44	41	1743	N.D.		
12) Acrolein	4.53	56	1193	0.110	ng	# 73
13) Acetone	4.61	58	54362	4.399	ng	97
14) Trichlorofluoromethane	4.73	101	73012	1.845	ng	98
15) 2-Propanol (Isopropanol)	4.83	45	125664	2.605	ng	92
16) Acrylonitrile	5.02	53	1162	N.D.		
17) 1,1-Dichloroethene	5.24	96	1009	N.D.		
18) 2-Methyl-2-Propanol (t...	5.32	59	1128	N.D.		
19) Methylene Chloride	5.34	84	3710	0.227	ng	98
20) 3-Chloro-1-propene (Al...	5.43	41	249	N.D.		
21) Trichlorotrifluoroethane	5.56	151	7546	0.422	ng	# 76
22) Carbon Disulfide	5.58	76	15101	0.254	ng	99
23) trans-1,2-Dichloroethene	6.12	61	168	N.D.		
24) 1,1-Dichloroethane	6.28	63	1117	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)	6.65	72	4328	0.439	ng	100
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	7.27	61	10842	1.432	ng	98
31) n-Hexane	7.27	57	5775	0.184	ng	# 93
32) Chloroform	7.33	83	9710	0.281	ng	96
34) Tetrahydrofuran (THF)	7.74	72	9648	0.978	ng	97
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.08	62	1426	N.D.		
38) 1,1,1-Trichloroethane	8.36	97	46847	1.365	ng	98
39) Isopropyl Acetate	9.26	61	25570	No Calib	#	
40) 1-Butanol	8.79	56	28284	No Calib	#	
41) Benzene	8.86	78	12512	0.188	ng	100
42) Carbon Tetrachloride	9.03	117	22412	0.766	ng	98
43) Cyclohexane	9.18	84	1979	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	9.82	63	400	N.D.		
46) Bromodichloromethane	10.03	83	111	N.D.		
47) Trichloroethene	10.12	130	318	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	10.20	57	17709	0.218	ng	99
50) Methyl Methacrylate	10.37	100	3872	0.618	ng	# 72

Data File : I:\MS09\DATA\2023 03\21\03212317.D
 Acq On : 21 Mar 2023 14:25
 Sample : P2301184-005 (1000ml)
 Misc : S35-02212305

Vial: 8
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 21 21:39:57 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

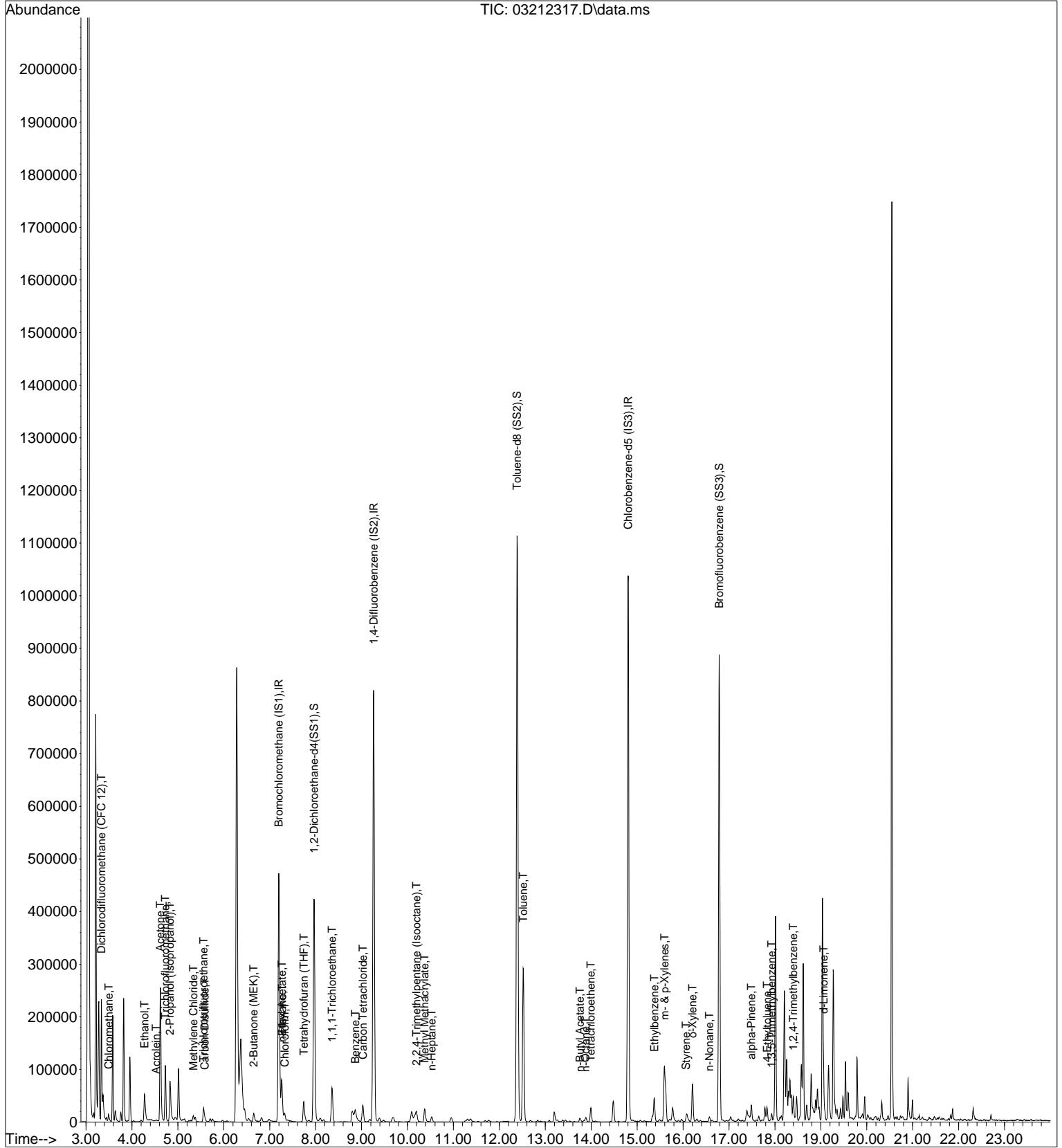
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.52	71	2485	0.150	ng	95
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.30	58	1446	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.52	91	256184	3.586	ng	98
59) 2-Hexanone	12.83	43	2504	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.76	43	8525	0.171	ng	97
63) n-Octane	13.87	57	1587	0.102	ng	90
64) Tetrachloroethene	13.99	166	8787	0.357	ng	97
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	15.37	91	36600	0.447	ng	99
67) m- & p-Xylenes	15.60	91	105381	1.567	ng	97
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.07	104	4833	0.114	ng	98
70) o-Xylene	16.20	91	37828	0.571	ng	100
71) n-Nonane	16.57	43	4644	0.111	ng	99
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	16.99	105	2570	N.D.		
75) alpha-Pinene	17.49	93	12013	0.349	ng	88
76) n-Propylbenzene	17.65	91	8027	N.D.		
77) 3-Ethyltoluene	16.99	105	2570	No Calib		
78) 4-Ethyltoluene	17.83	105	9470	0.123	ng	96
79) 1,3,5-Trimethylbenzene	17.93	105	6846	0.099	ng	98
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	16.99	105	2570	No Calib		
82) 1,2,4-Trimethylbenzene	18.40	105	23548	0.334	ng	90
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	18.66	91	128	N.D.		
85) 1,3-Dichlorobenzene	18.55	146	408	N.D.		
86) 1,4-Dichlorobenzene	18.64	146	562	N.D.		
87) sec-Butylbenzene	18.72	105	1158	N.D.		
88) 4-Isopropyltoluene (p-...	18.90	119	5083	N.D.		
89) 1,2,3-Trimethylbenzene	16.99	105	2570	No Calib		
90) 1,2-Dichlorobenzene	19.01	146	110	N.D.		
91) d-Limonene	19.06	68	19068	0.808	ng	94
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.08	58	838	No Calib	#	
94) 1,2,4-Trichlorobenzene	20.82	180	462	N.D.		
95) Naphthalene	20.93	128	3865	N.D.		
96) n-Dodecane	19.04	58	10768	No Calib	#	
97) Hexachlorobutadiene	21.27	225	120	N.D.		
98) Cyclohexanone	15.33	55	3989	No Calib	#	
99) tert-Butylbenzene	18.40	119	3177	N.D.		
100) n-Butylbenzene	19.35	91	2418	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\21\03212317.D
Acq On : 21 Mar 2023 14:25
Sample : P2301184-005 (1000ml)
Misc : S35-02212305

Vial: 8
Operator: WA/SR
Inst : MS09

Quant Time: Mar 21 21:39:57 2023
Quant Method : I:\MS09\METHODS\R9022723.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Feb 28 08:30:18 2023
Response via : Initial Calibration
DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2023 03\21\03212317.D
 Acq On : 21 Mar 2023 14:25
 Sample : P2301184-005 (1000ml)
 Misc : S35-02212305

Vial: 8
 Operator: WA/SR
 Inst : MS09

107 3/21/23

Quant Time: Mar 21 21:39:57 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	7.20	130	171852	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	9.26	114	778024	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.81	54	176576	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.96	65	371760	12.778	ng	-0.04
Spiked Amount	12.500	Range 70 - 130	Recovery	=	102.24%	
57) Toluene-d8 (SS2)	12.39	98	921553	13.735	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	109.92%	
73) Bromofluorobenzene (SS3)	16.79	174	280669	10.259	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	82.08%	

Target Compounds

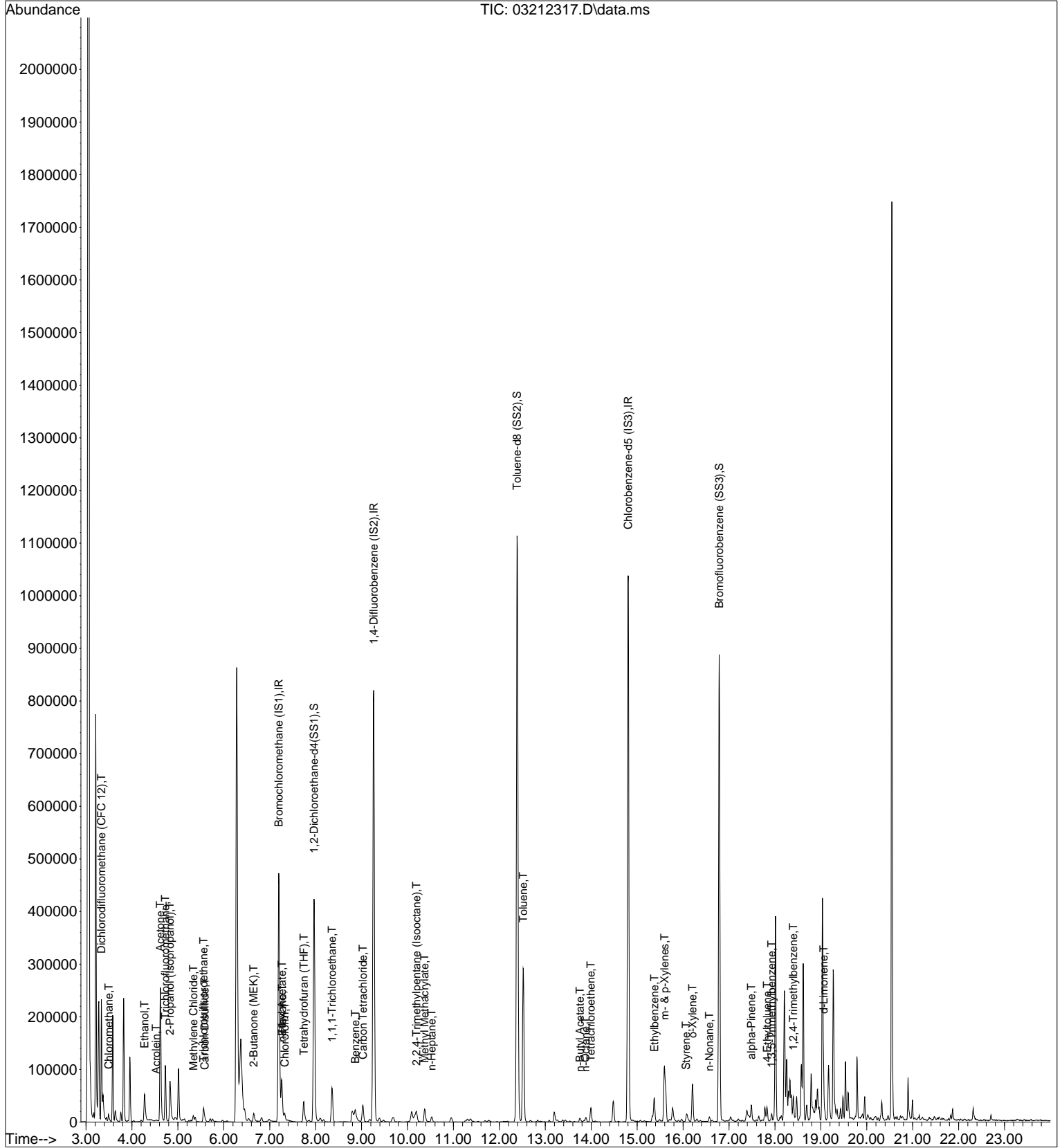
	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethan...	3.34	85	113959	2.872	ng	99
4) Chloromethane	3.49	50	2363	0.095	ng	85
10) Ethanol	4.27	45	90853	5.571	ng	99
12) Acrolein	4.53	56	1193	0.110	ng	# 73
13) Acetone	4.61	58	54362	4.399	ng	97
14) Trichlorofluoromethane	4.73	101	73012	1.845	ng	98
15) 2-Propanol (Isopropanol)	4.83	45	125664	2.605	ng	92
19) Methylene Chloride	5.34	84	3710	0.227	ng	98
21) Trichlorotrifluoroethane	5.56	151	7546	0.422	ng	# 76
22) Carbon Disulfide	5.58	76	15101	0.254	ng	99
27) 2-Butanone (MEK)	6.65	72	4328	0.439	ng	100
30) Ethyl Acetate	7.27	61	10842	1.432	ng	98
31) n-Hexane	7.27	57	5775	0.184	ng	# 93
32) Chloroform	7.33	83	9710	0.281	ng	96
34) Tetrahydrofuran (THF)	7.74	72	9648	0.978	ng	97
38) 1,1,1-Trichloroethane	8.36	97	46847	1.365	ng	98
41) Benzene	8.86	78	12512	0.188	ng	100
42) Carbon Tetrachloride	9.03	117	22412	0.766	ng	98
49) 2,2,4-Trimethylpentane...	10.20	57	17709	0.218	ng	99
50) Methyl Methacrylate	10.37	100	3872	0.618	ng	# 72
51) n-Heptane	10.52	71	2485	0.150	ng	95
58) Toluene	12.52	91	256184	3.586	ng	98
62) n-Butyl Acetate	13.76	43	8525	0.171	ng	97
63) n-Octane	13.87	57	1587	0.102	ng	90
64) Tetrachloroethene	13.99	166	8787	0.357	ng	97
66) Ethylbenzene	15.37	91	36600	0.447	ng	99
67) m- & p-Xylenes	15.60	91	105381	1.567	ng	97
69) Styrene	16.07	104	4833	0.114	ng	98
70) o-Xylene	16.20	91	37828	0.571	ng	100
71) n-Nonane	16.57	43	4644	0.111	ng	99
75) alpha-Pinene	17.49	93	12013	0.349	ng	88
78) 4-Ethyltoluene	17.83	105	9470	0.123	ng	96
79) 1,3,5-Trimethylbenzene	17.93	105	6846	0.099	ng	98
82) 1,2,4-Trimethylbenzene	18.40	105	23548	0.334	ng	90
91) d-Limonene	19.06	68	19068	0.808	ng	94

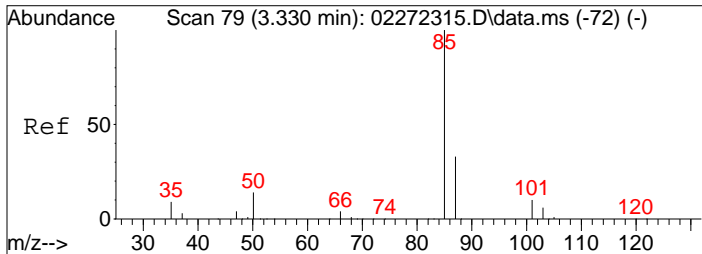
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS09\DATA\2023 03\21\03212317.D
Acq On : 21 Mar 2023 14:25
Sample : P2301184-005 (1000ml)
Misc : S35-02212305

Vial: 8
Operator: WA/SR
Inst : MS09

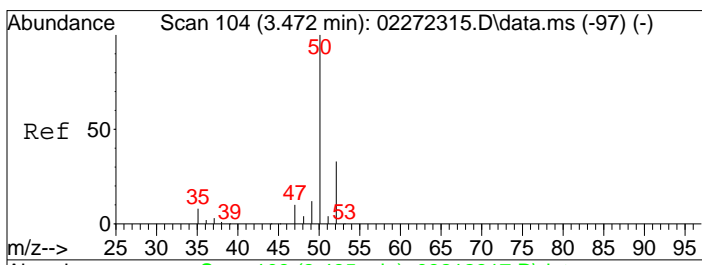
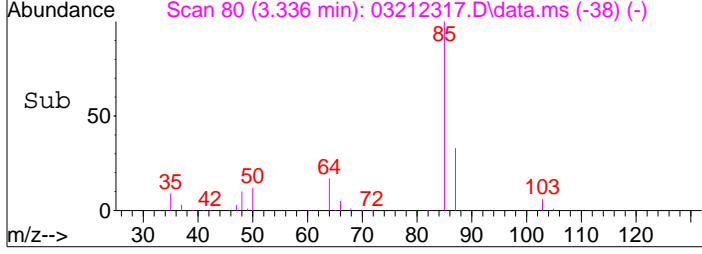
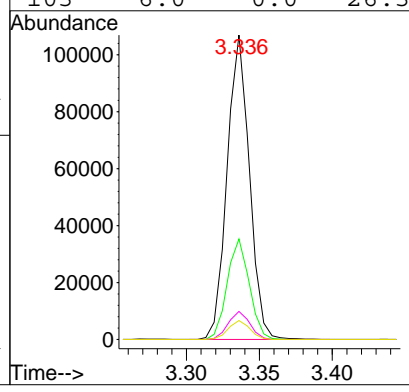
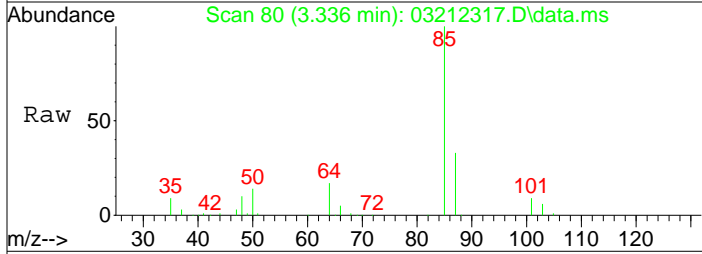
Quant Time: Mar 21 21:39:57 2023
Quant Method : I:\MS09\METHODS\R9022723.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Feb 28 08:30:18 2023
Response via : Initial Calibration
DataAcq Meth:TO15.M





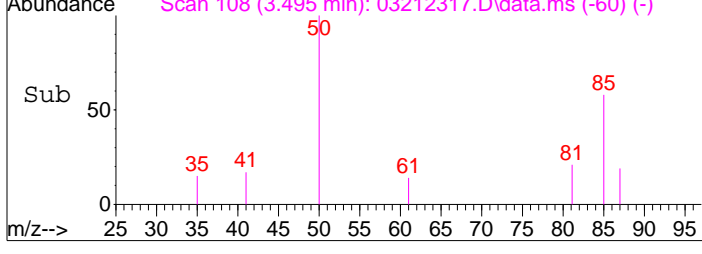
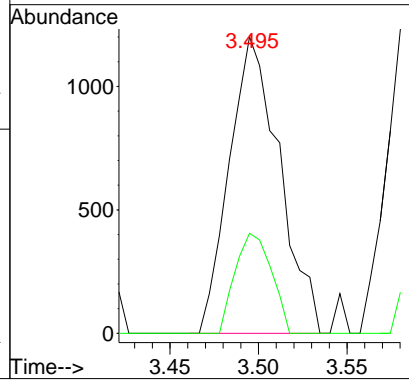
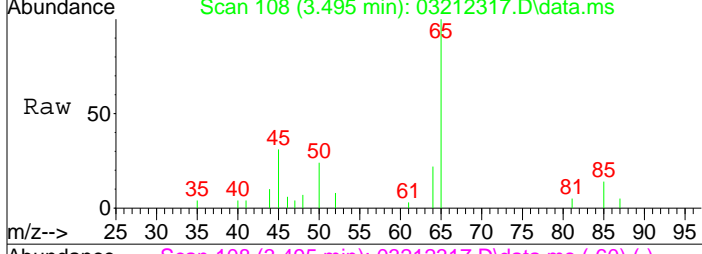
#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 2.87 ng
 RT: 3.34 min Scan# 80
 Delta R.T. -0.014 min
 Lab File: 03212317.D
 Acq: 21 Mar 2023 14:25

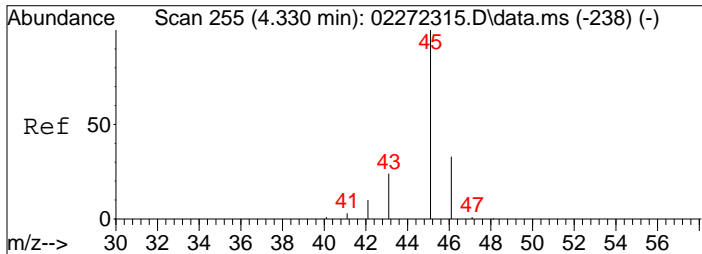
Tgt Ion	85	Resp	113959
Ion Ratio	100	Lower	Upper
85	100		
87	32.7	12.3	52.3
101	9.0	0.0	29.7
103	6.0	0.0	26.3



#4
 Chloromethane
 Concen: 0.09 ng
 RT: 3.49 min Scan# 108
 Delta R.T. 0.023 min
 Lab File: 03212317.D
 Acq: 21 Mar 2023 14:25

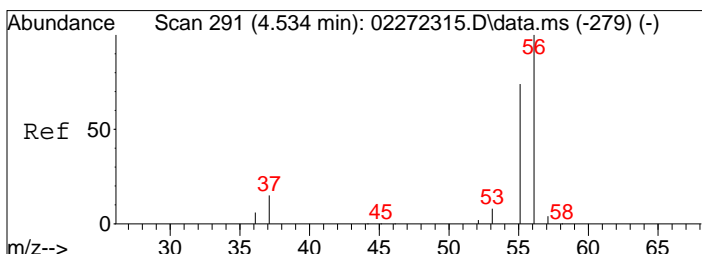
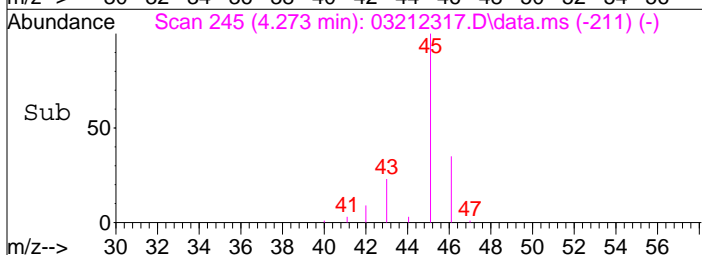
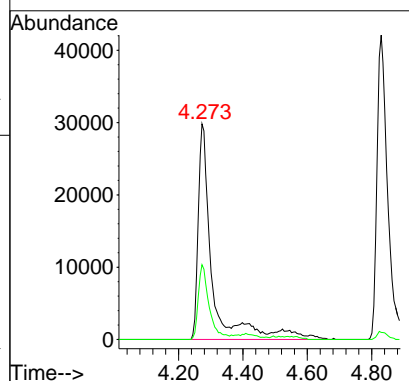
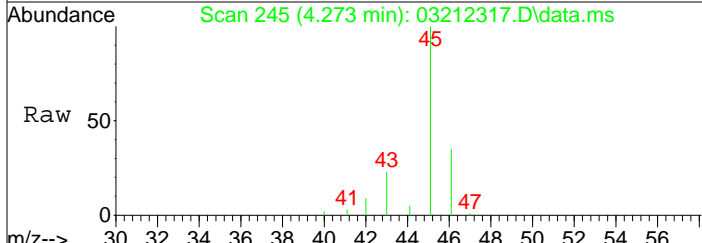
Tgt Ion	50	Resp	2363
Ion Ratio	100	Lower	Upper
50	100		
52	24.5	12.8	52.8





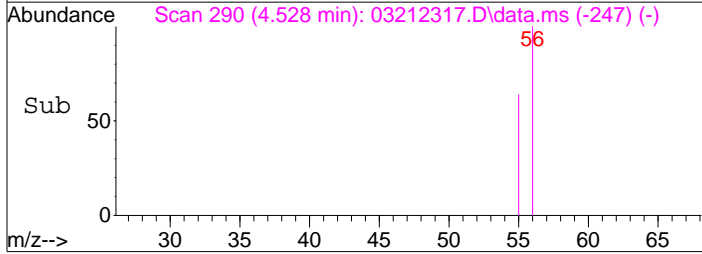
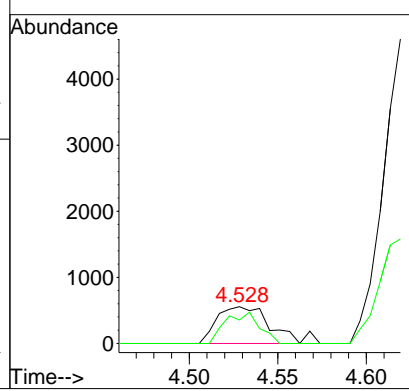
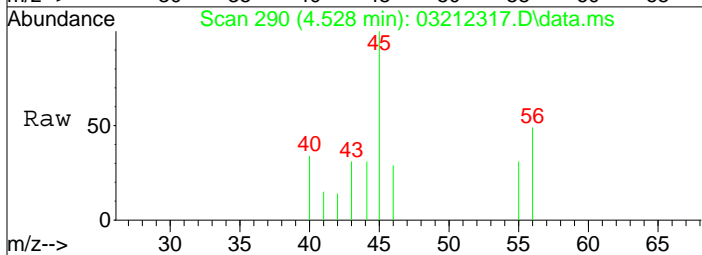
#10
 Ethanol
 Concen: 5.57 ng
 RT: 4.27 min Scan# 245
 Delta R.T. -0.057 min
 Lab File: 03212317.D
 Acq: 21 Mar 2023 14:25

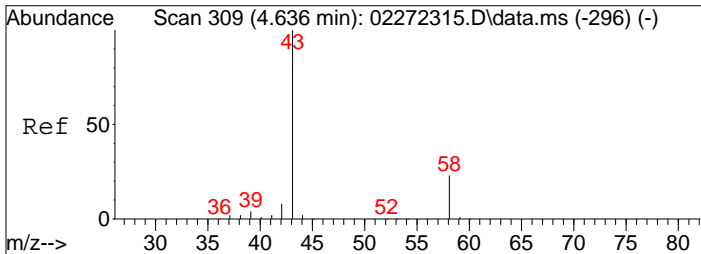
Tgt Ion	Resp	Lower	Upper
45	100		
46	33.7	13.4	53.4



#12
 Acrolein
 Concen: 0.11 ng
 RT: 4.53 min Scan# 290
 Delta R.T. -0.006 min
 Lab File: 03212317.D
 Acq: 21 Mar 2023 14:25

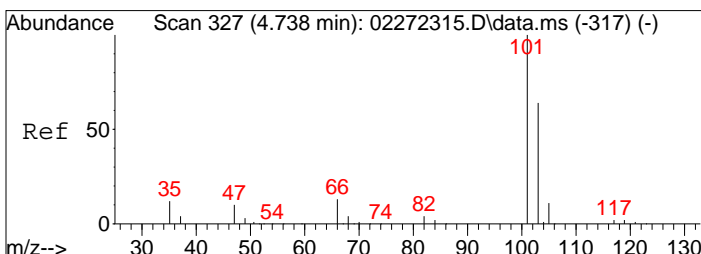
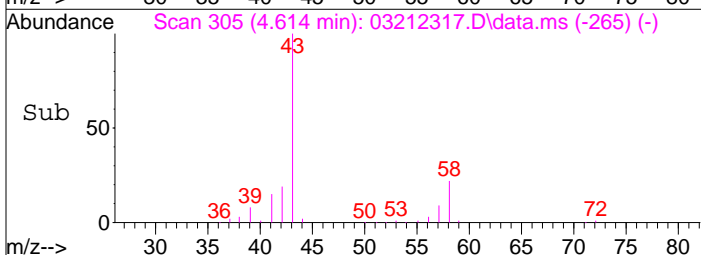
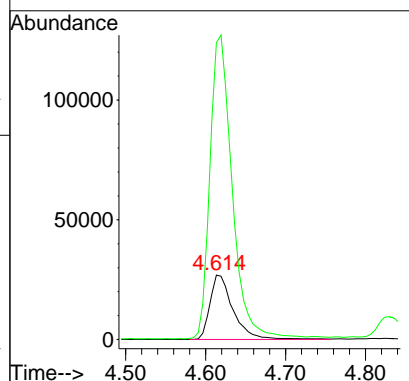
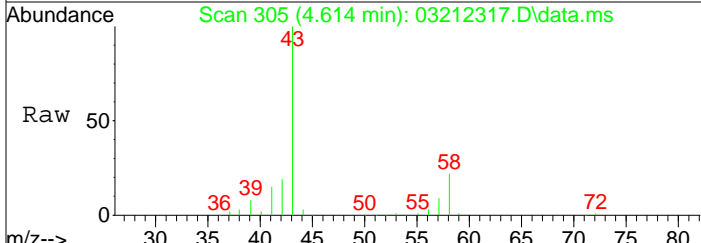
Tgt Ion	Resp	Lower	Upper
56	100		
55	53.1	56.4	96.4#





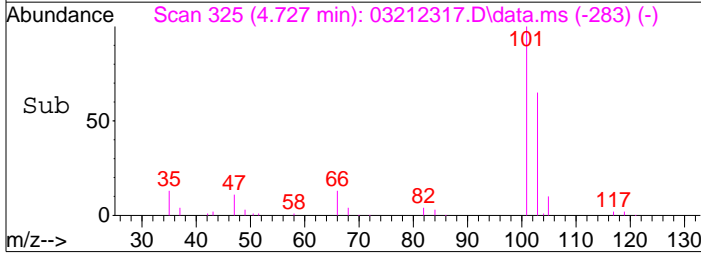
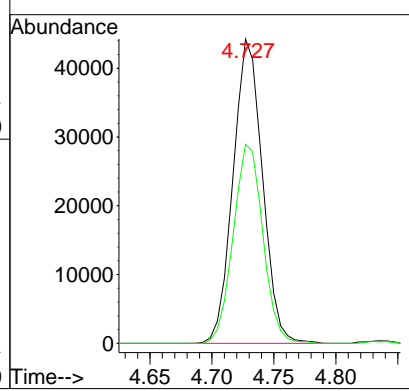
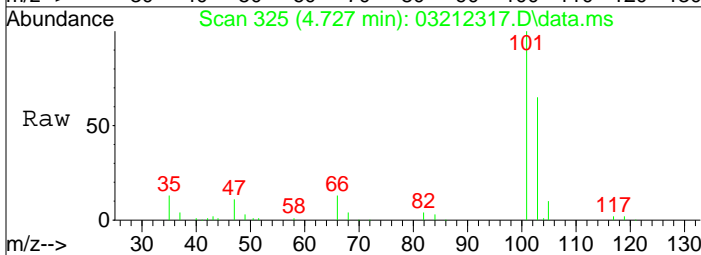
#13
 Acetone
 Concen: 4.40 ng
 RT: 4.61 min Scan# 305
 Delta R.T. -0.023 min
 Lab File: 03212317.D
 Acq: 21 Mar 2023 14:25

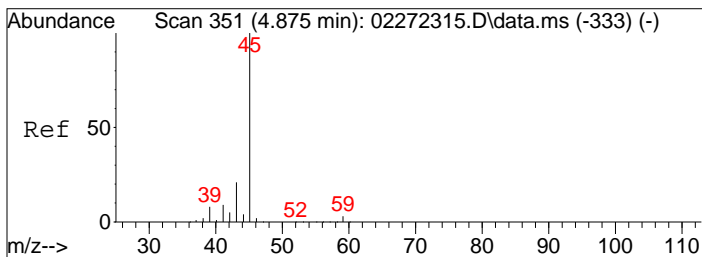
Tgt Ion	Resp	Lower	Upper
58	54362		
58	100		
43	451.5	414.4	474.4



#14
 Trichlorofluoromethane
 Concen: 1.85 ng
 RT: 4.73 min Scan# 325
 Delta R.T. -0.011 min
 Lab File: 03212317.D
 Acq: 21 Mar 2023 14:25

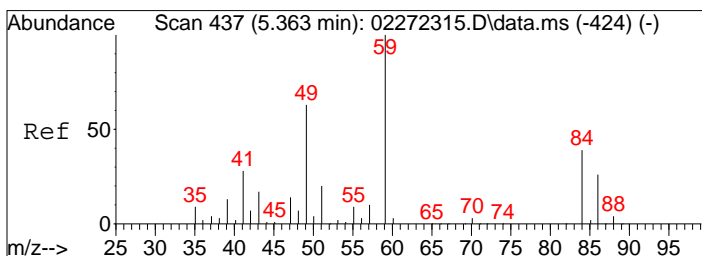
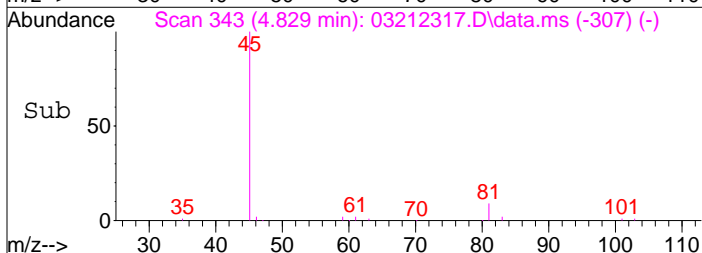
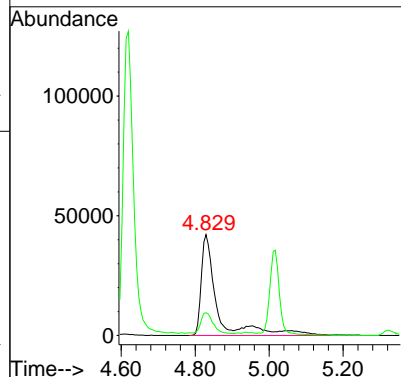
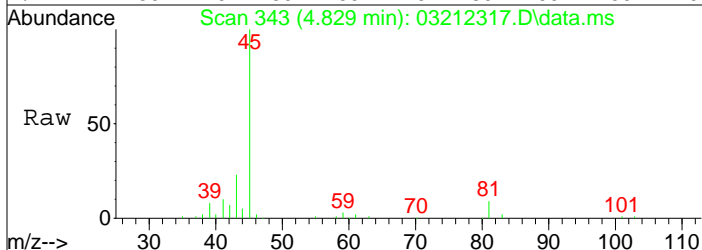
Tgt Ion	Resp	Lower	Upper
101	73012		
101	100		
103	65.9	44.0	84.0





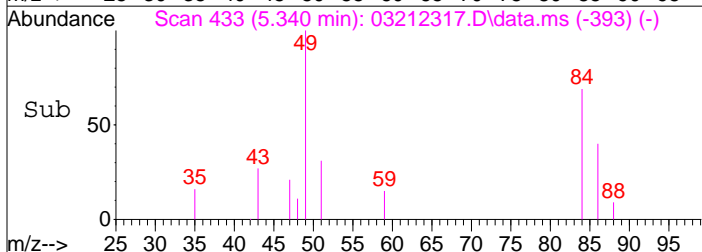
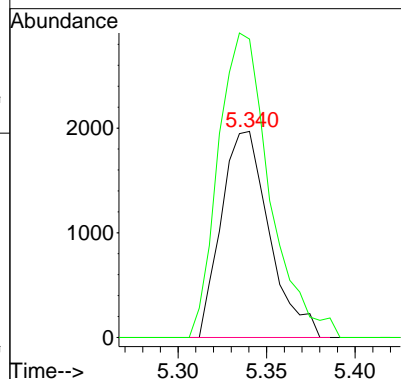
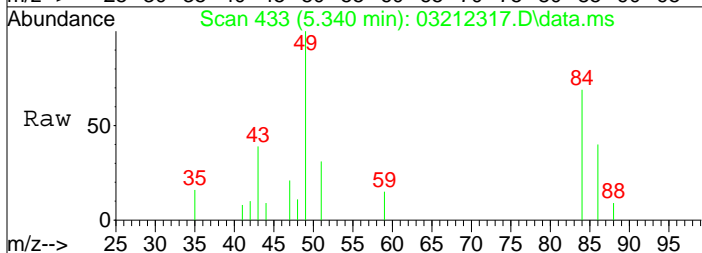
#15
 2-Propanol (Isopropanol)
 Concen: 2.60 ng
 RT: 4.83 min Scan# 343
 Delta R.T. -0.046 min
 Lab File: 03212317.D
 Acq: 21 Mar 2023 14:25

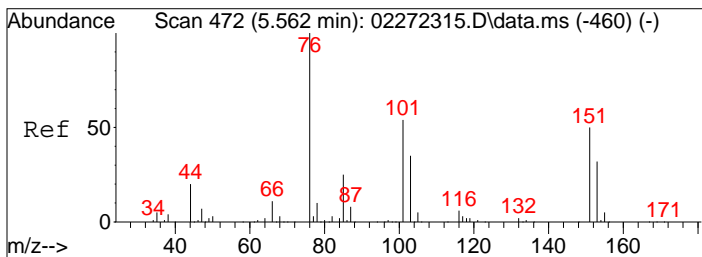
Tgt Ion: 45 Resp: 125664
 Ion Ratio Lower Upper
 45 100
 43 17.8 1.6 41.6



#19
 Methylene Chloride
 Concen: 0.23 ng
 RT: 5.34 min Scan# 433
 Delta R.T. -0.023 min
 Lab File: 03212317.D
 Acq: 21 Mar 2023 14:25

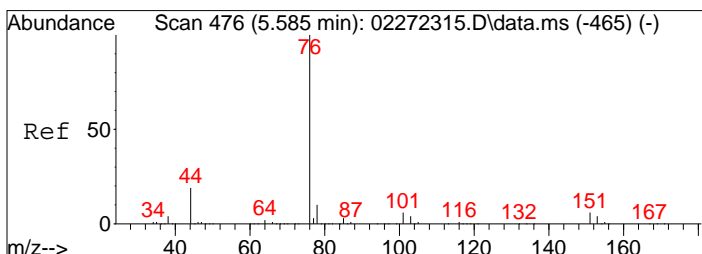
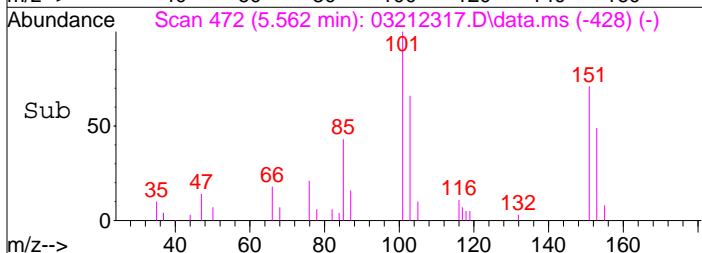
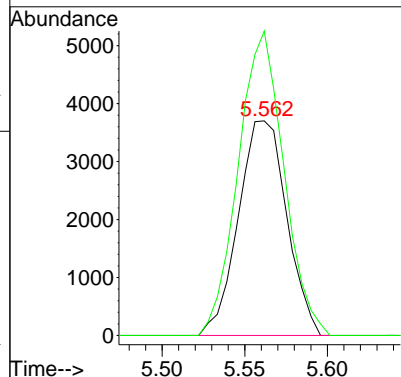
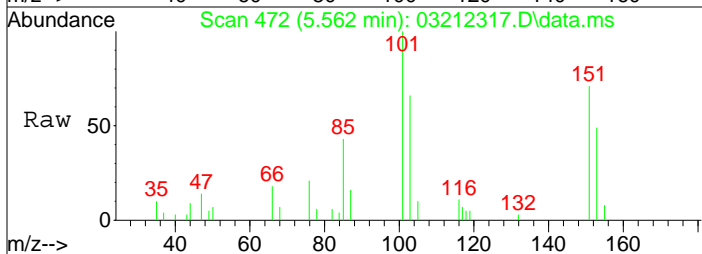
Tgt Ion: 84 Resp: 3710
 Ion Ratio Lower Upper
 84 100
 49 158.7 136.0 186.0





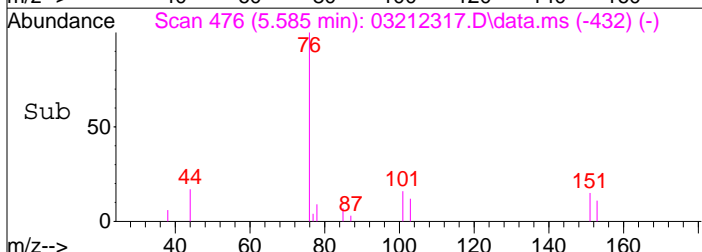
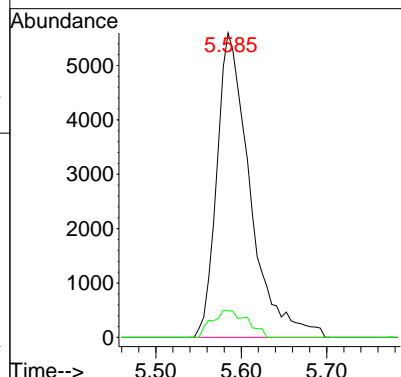
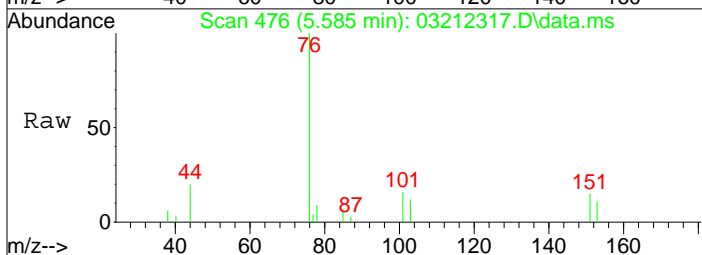
#21
 Trichlorotrifluoroethane
 Concen: 0.42 ng
 RT: 5.56 min Scan# 472
 Delta R.T. -0.000 min
 Lab File: 03212317.D
 Acq: 21 Mar 2023 14:25

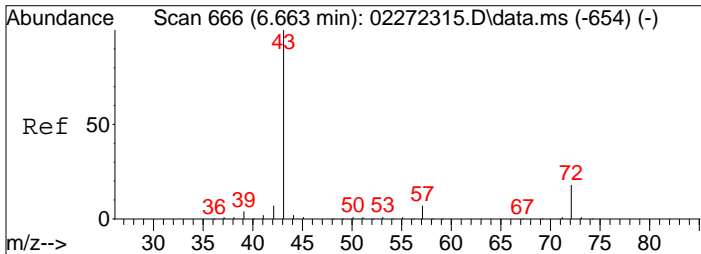
Tgt Ion: 151 Resp: 7546
 Ion Ratio Lower Upper
 151 100
 101 133.7 88.2 128.2#



#22
 Carbon Disulfide
 Concen: 0.25 ng
 RT: 5.58 min Scan# 476
 Delta R.T. -0.000 min
 Lab File: 03212317.D
 Acq: 21 Mar 2023 14:25

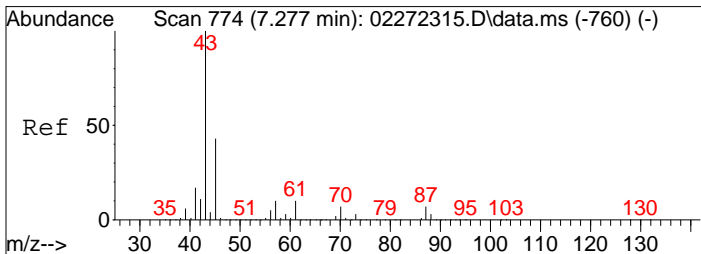
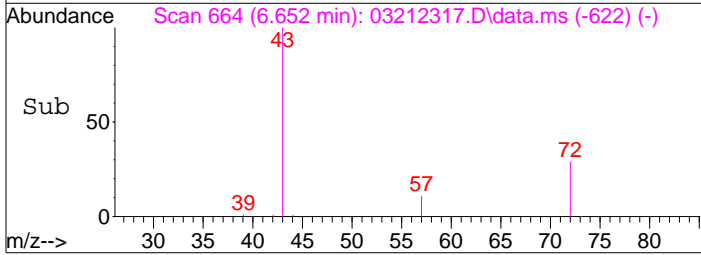
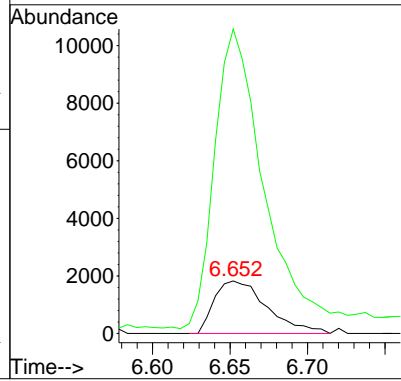
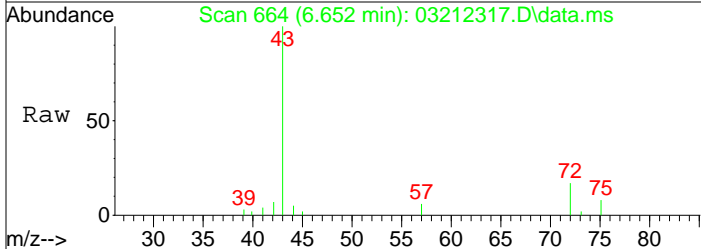
Tgt Ion: 76 Resp: 15101
 Ion Ratio Lower Upper
 76 100
 78 9.5 0.0 29.7





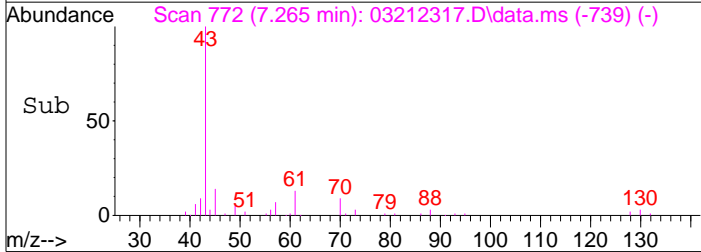
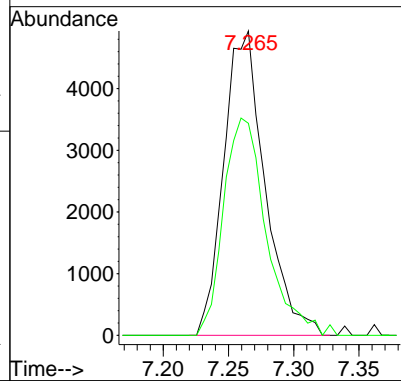
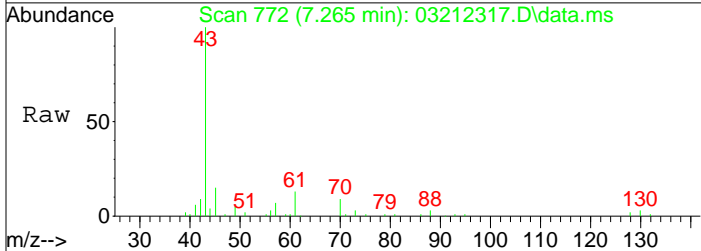
#27
 2-Butanone (MEK)
 Concen: 0.44 ng
 RT: 6.65 min Scan# 664
 Delta R.T. -0.011 min
 Lab File: 03212317.D
 Acq: 21 Mar 2023 14:25

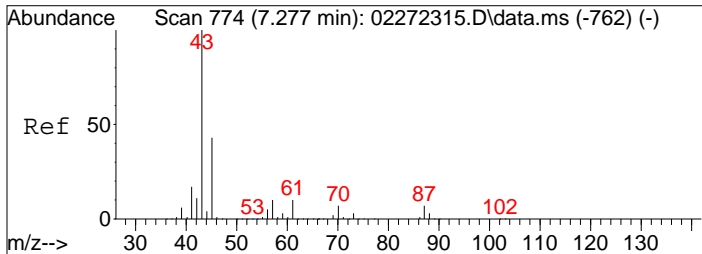
Tgt Ion: 72 Resp: 4328
 Ion Ratio Lower Upper
 72 100
 43 556.5 536.0 576.0



#30
 Ethyl Acetate
 Concen: 1.43 ng
 RT: 7.27 min Scan# 772
 Delta R.T. -0.011 min
 Lab File: 03212317.D
 Acq: 21 Mar 2023 14:25

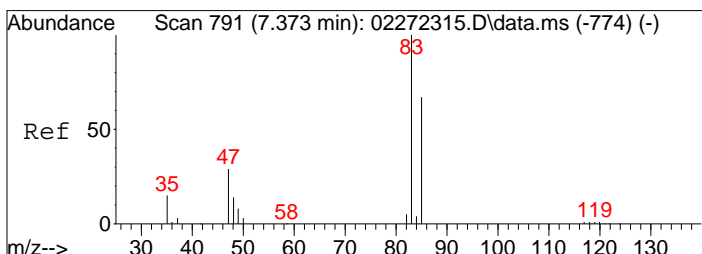
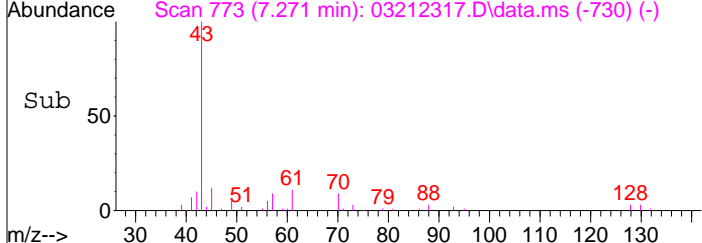
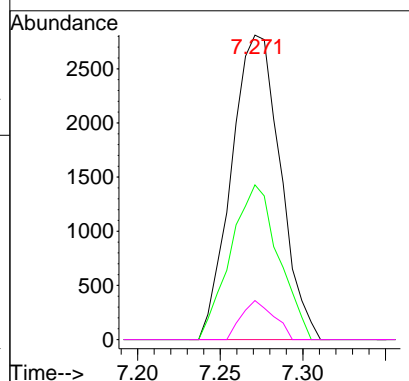
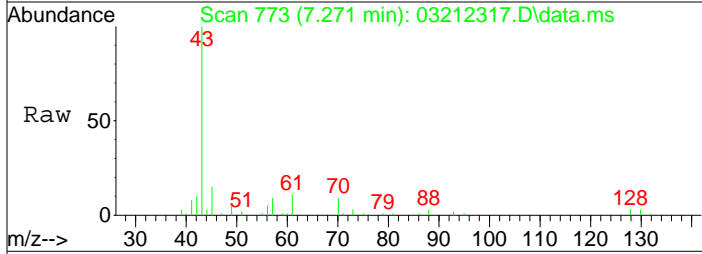
Tgt Ion: 61 Resp: 10842
 Ion Ratio Lower Upper
 61 100
 70 74.1 55.8 95.8





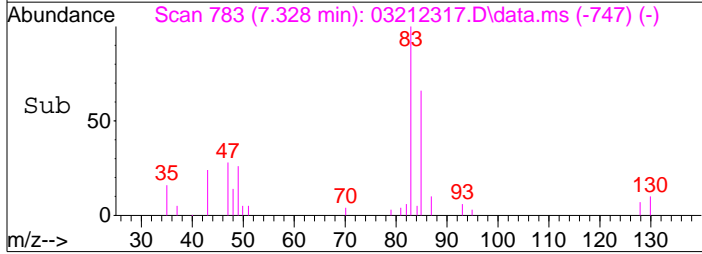
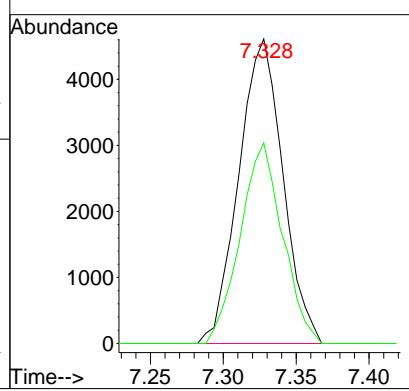
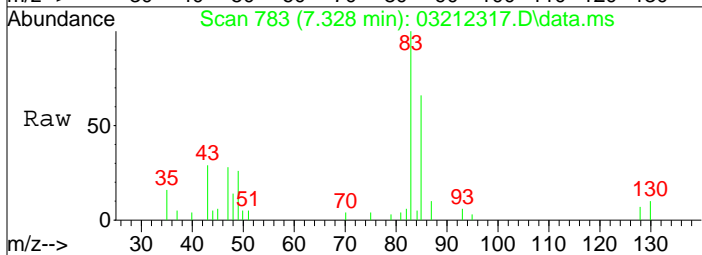
#31
 n-Hexane
 Concen: 0.18 ng
 RT: 7.27 min Scan# 773
 Delta R.T. -0.006 min
 Lab File: 03212317.D
 Acq: 21 Mar 2023 14:25

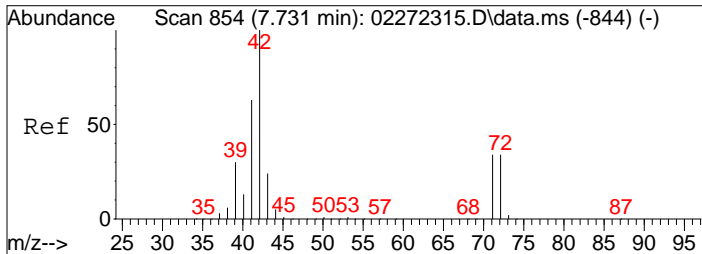
Tgt Ion:	Resp:	Lower	Upper
57	5775		
57	100		
56	50.0	43.3	64.9
86	8.5	10.2	15.2#



#32
 Chloroform
 Concen: 0.28 ng
 RT: 7.33 min Scan# 783
 Delta R.T. -0.045 min
 Lab File: 03212317.D
 Acq: 21 Mar 2023 14:25

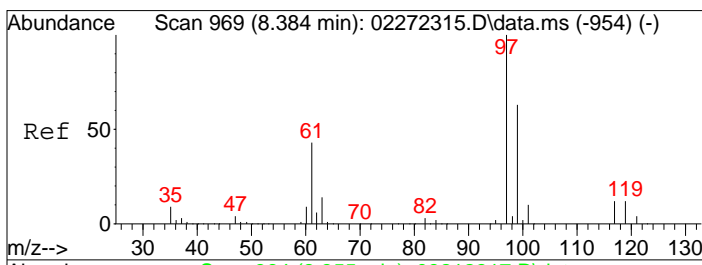
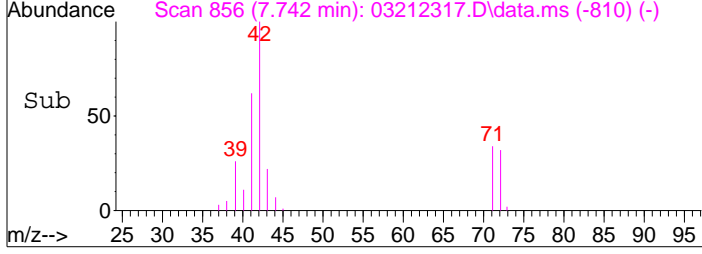
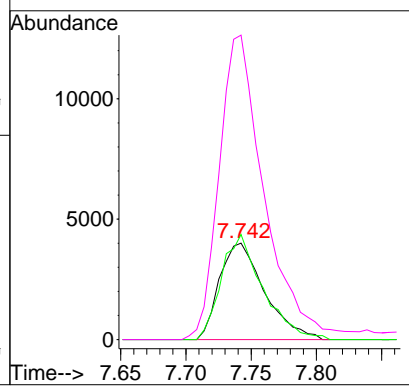
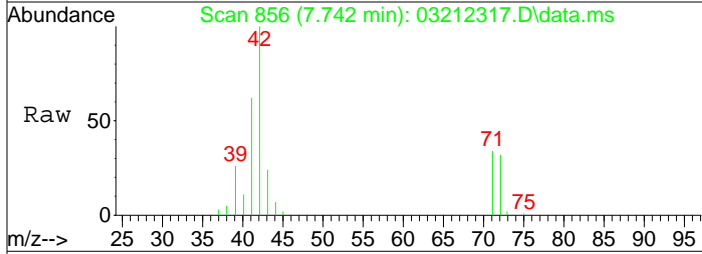
Tgt Ion:	Resp:	Lower	Upper
83	9710		
83	100		
85	62.9	46.3	86.3





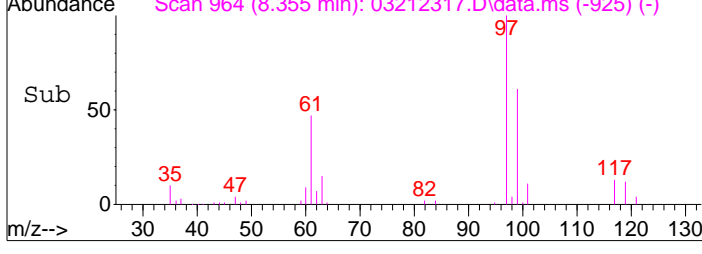
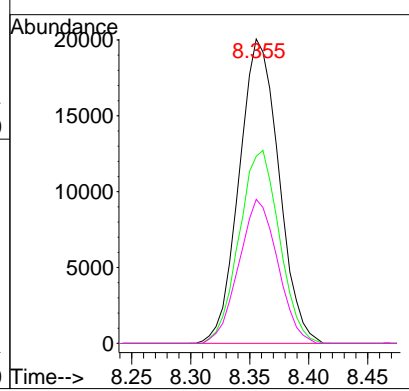
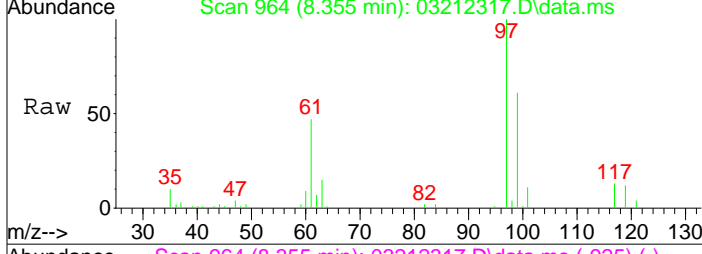
#34
 Tetrahydrofuran (THF)
 Concen: 0.98 ng
 RT: 7.74 min Scan# 856
 Delta R.T. 0.011 min
 Lab File: 03212317.D
 Acq: 21 Mar 2023 14:25

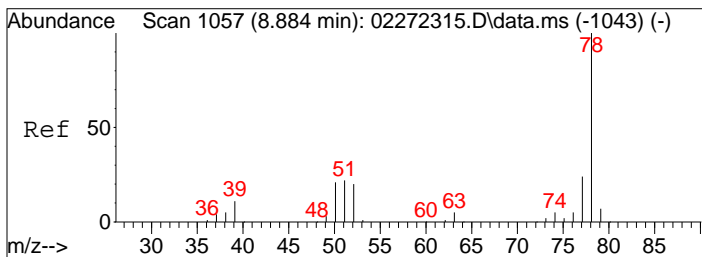
Tgt Ion:	Resp:	Lower	Upper
72	9648		
71	100.1	81.3	121.3
42	321.1	293.7	333.7



#38
 1,1,1-Trichloroethane
 Concen: 1.37 ng
 RT: 8.36 min Scan# 964
 Delta R.T. -0.028 min
 Lab File: 03212317.D
 Acq: 21 Mar 2023 14:25

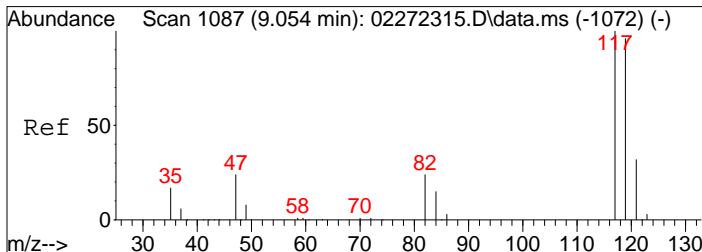
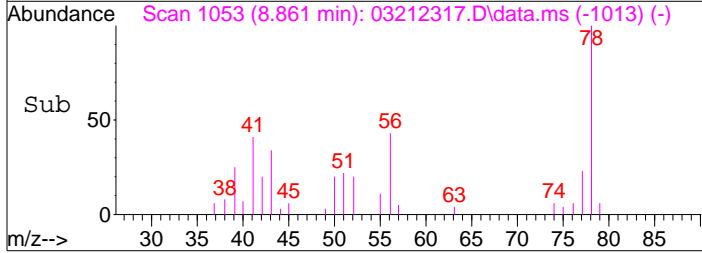
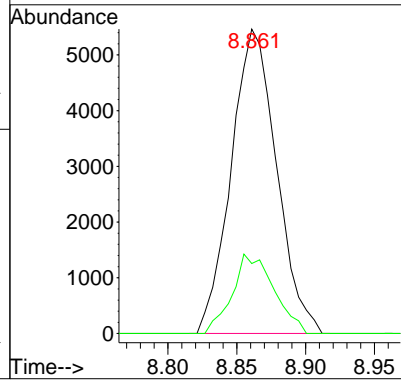
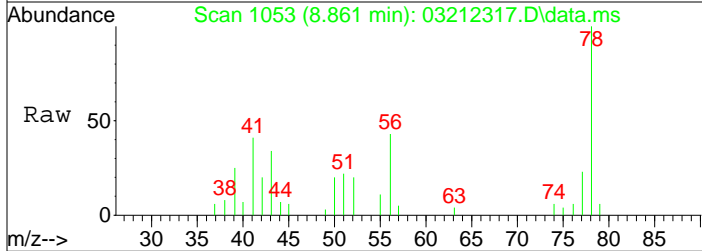
Tgt Ion:	Resp:	Lower	Upper
97	46847		
99	64.3	44.1	84.1
61	46.4	24.0	64.0





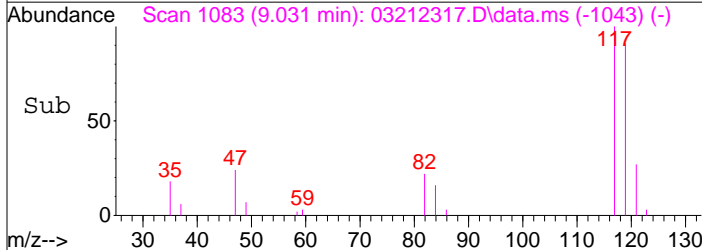
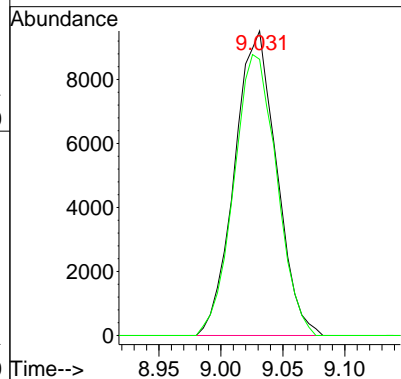
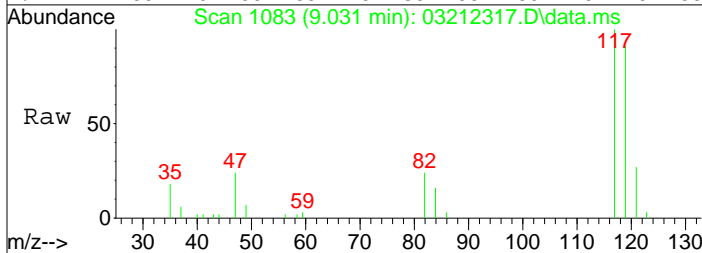
#41
Benzene
Concen: 0.19 ng
RT: 8.86 min Scan# 1053
Delta R.T. -0.023 min
Lab File: 03212317.D
Acq: 21 Mar 2023 14:25

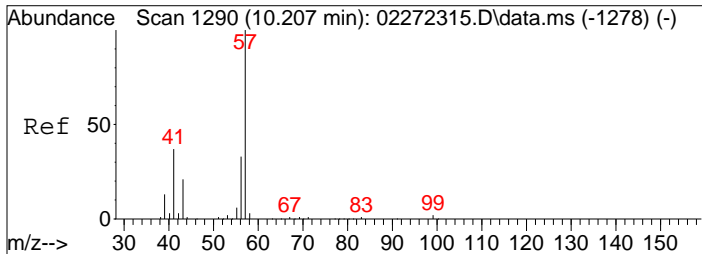
Tgt Ion	Resp	Lower	Upper
78	12512	100	100
77	23.9	4.0	44.0



#42
Carbon Tetrachloride
Concen: 0.77 ng
RT: 9.03 min Scan# 1083
Delta R.T. -0.023 min
Lab File: 03212317.D
Acq: 21 Mar 2023 14:25

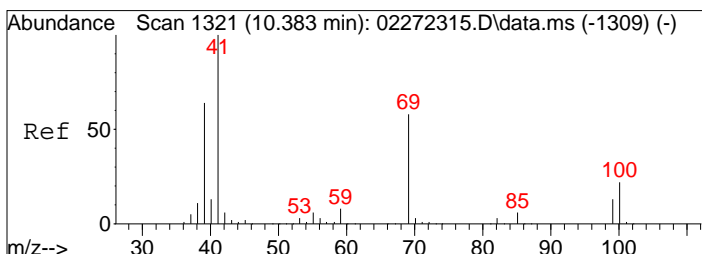
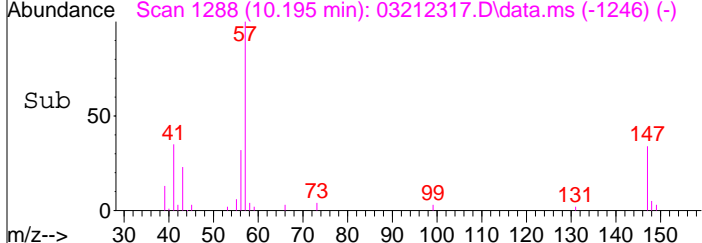
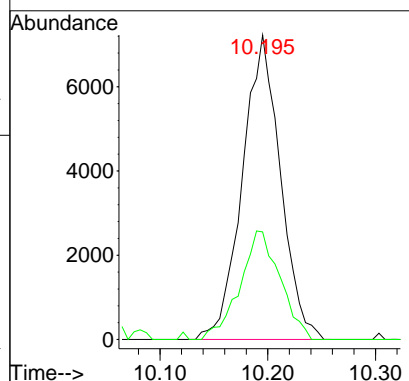
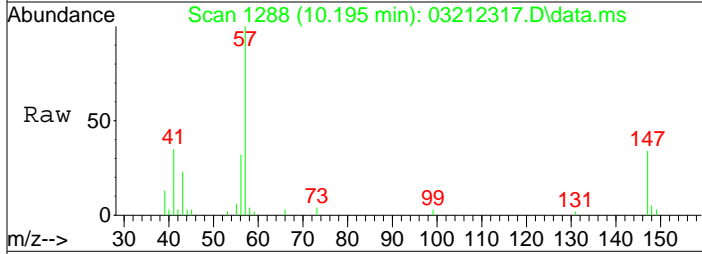
Tgt Ion	Resp	Lower	Upper
117	22412	100	100
119	94.0	75.5	115.5





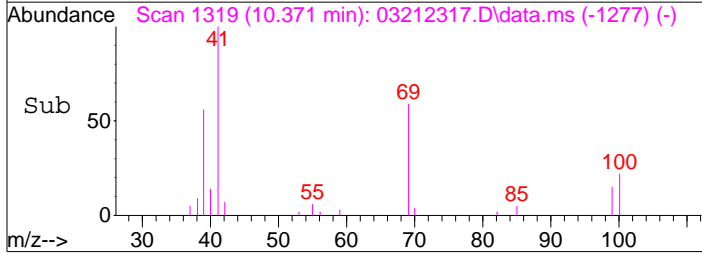
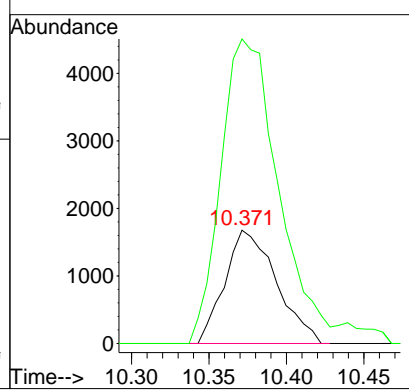
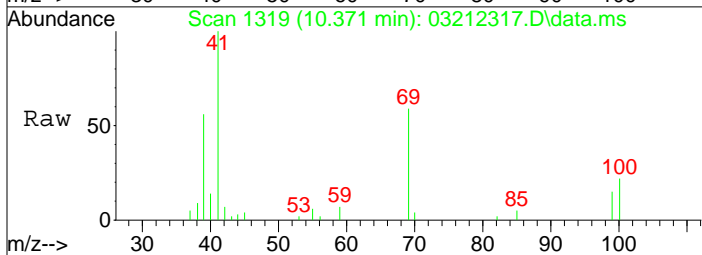
#49
 2,2,4-Trimethylpentane (Isooctane)
 Concen: 0.22 ng
 RT: 10.20 min Scan# 1288
 Delta R.T. -0.011 min
 Lab File: 03212317.D
 Acq: 21 Mar 2023 14:25

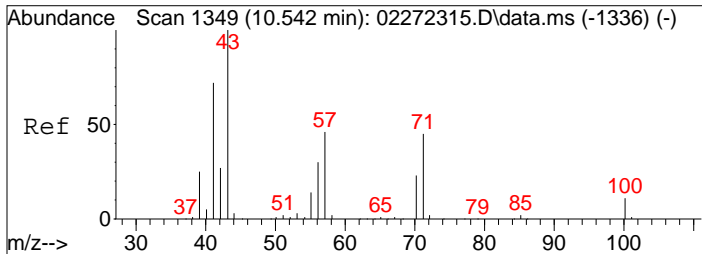
Tgt Ion	Resp	Lower	Upper
57	17709		
41	37.7	17.1	57.1



#50
 Methyl Methacrylate
 Concen: 0.62 ng
 RT: 10.37 min Scan# 1319
 Delta R.T. -0.011 min
 Lab File: 03212317.D
 Acq: 21 Mar 2023 14:25

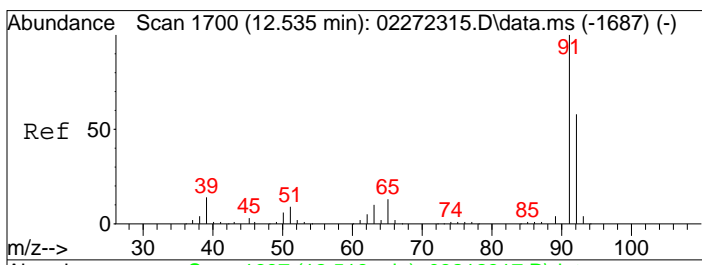
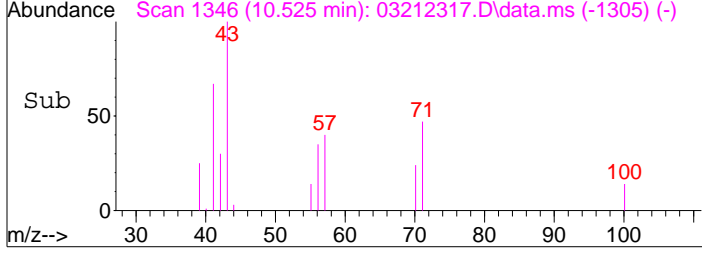
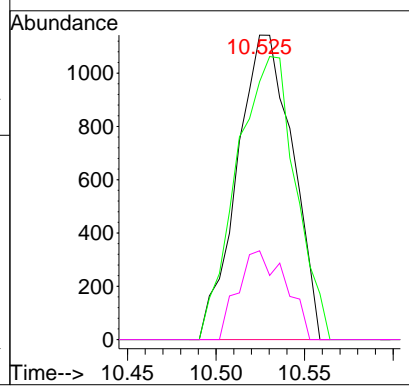
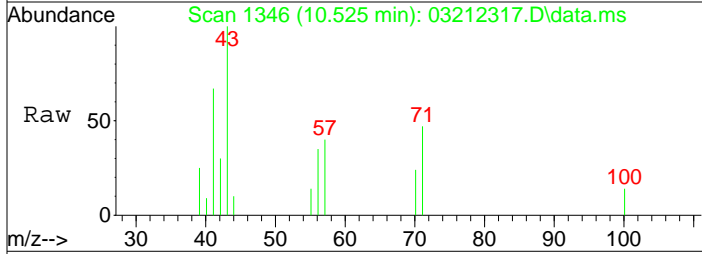
Tgt Ion	Resp	Lower	Upper
100	3872		
69	311.4	241.7	281.7#





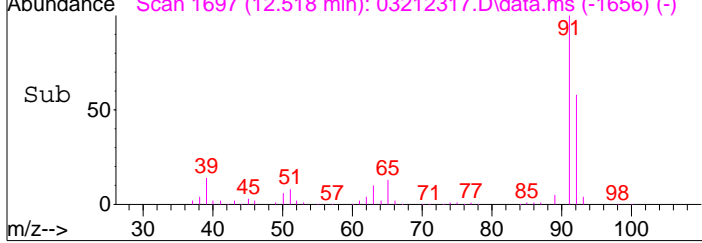
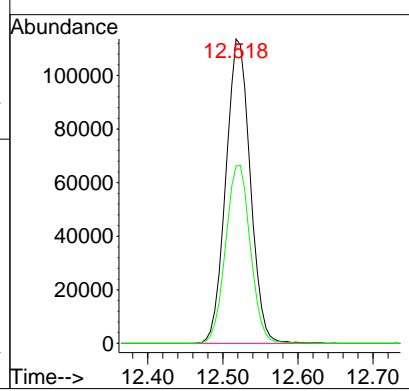
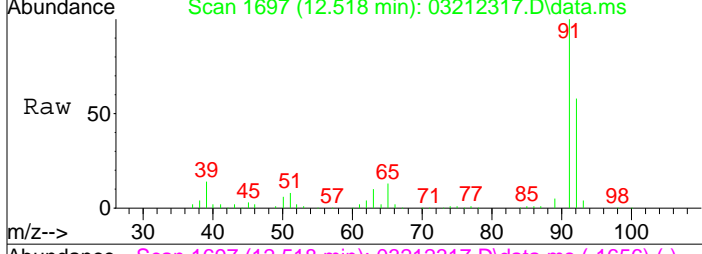
#51
 n-Heptane
 Concen: 0.15 ng
 RT: 10.52 min Scan# 1346
 Delta R.T. -0.017 min
 Lab File: 03212317.D
 Acq: 21 Mar 2023 14:25

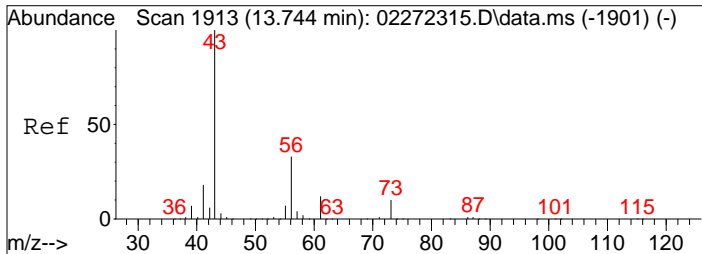
Tgt Ion	Resp	Lower	Upper
71	100		
57	98.7	84.6	124.6
100	25.2	5.8	45.8



#58
 Toluene
 Concen: 3.59 ng
 RT: 12.52 min Scan# 1697
 Delta R.T. -0.017 min
 Lab File: 03212317.D
 Acq: 21 Mar 2023 14:25

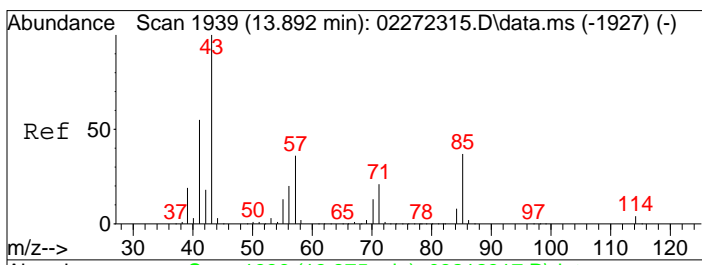
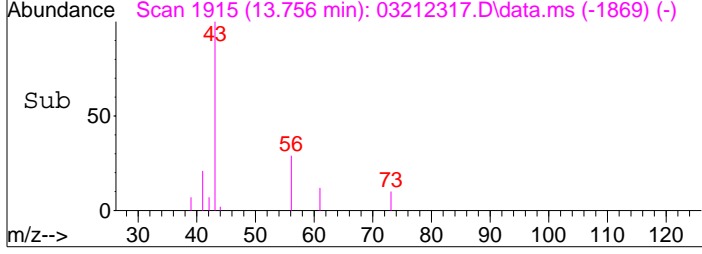
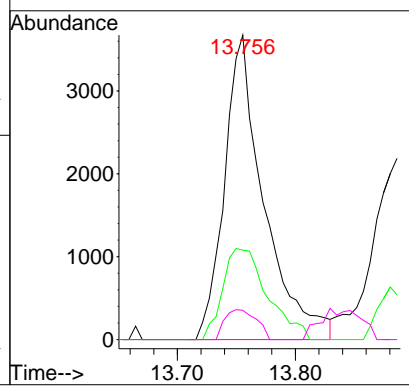
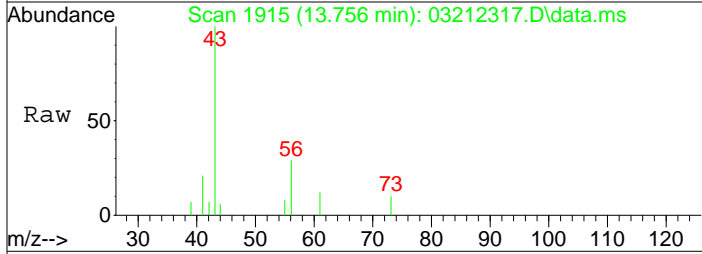
Tgt Ion	Resp	Lower	Upper
91	100		
92	59.4	37.6	77.6





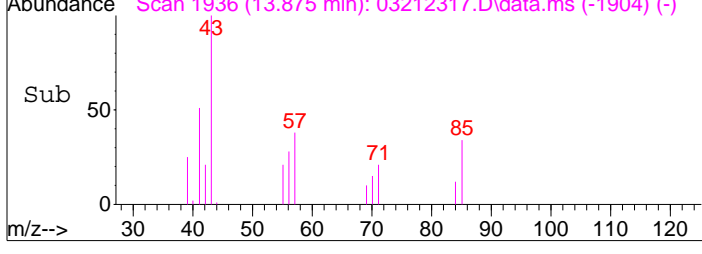
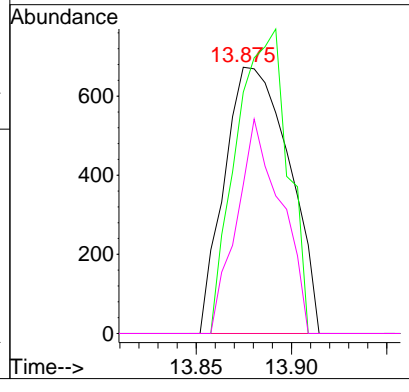
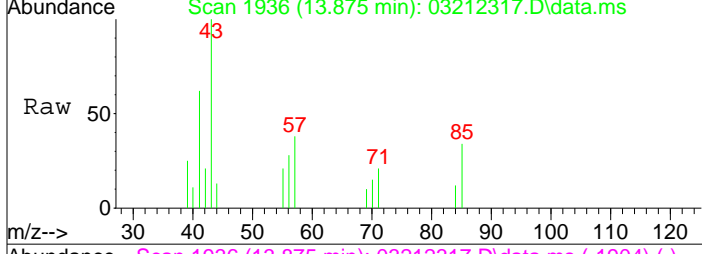
#62
 n-Butyl Acetate
 Concen: 0.17 ng
 RT: 13.76 min Scan# 1915
 Delta R.T. 0.011 min
 Lab File: 03212317.D
 Acq: 21 Mar 2023 14:25

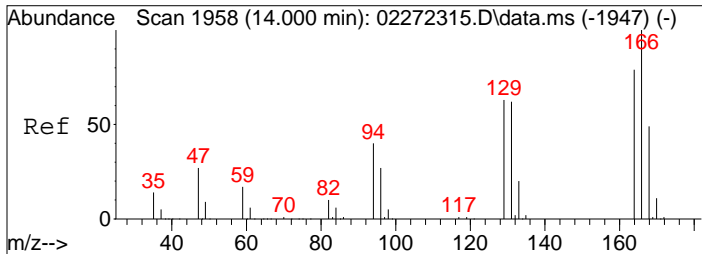
Tgt Ion:	Resp:	Lower	Upper
43	100		
56	34.0	13.1	53.1
73	7.9	0.0	29.9



#63
 n-Octane
 Concen: 0.10 ng
 RT: 13.87 min Scan# 1936
 Delta R.T. -0.017 min
 Lab File: 03212317.D
 Acq: 21 Mar 2023 14:25

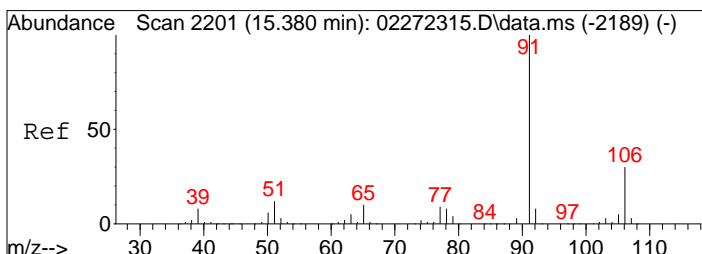
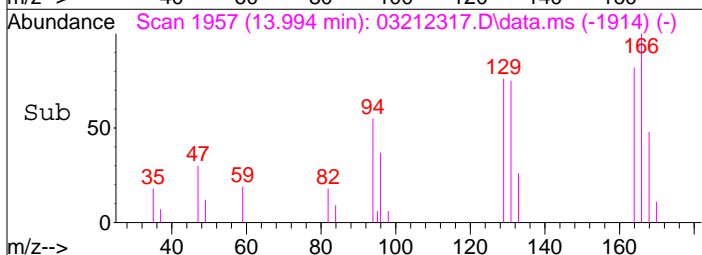
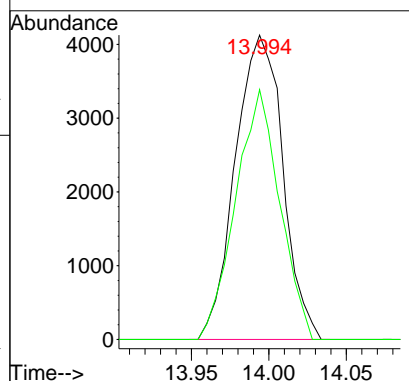
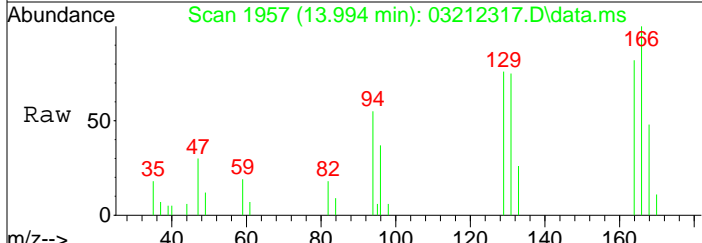
Tgt Ion:	Resp:	Lower	Upper
57	100		
85	90.7	82.4	123.6
71	55.3	47.8	71.6





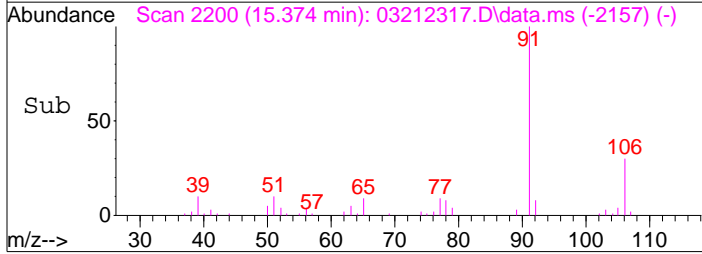
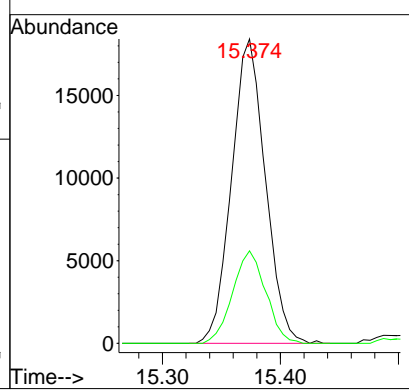
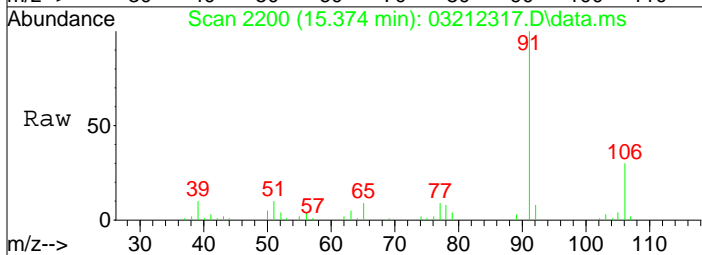
#64
 Tetrachloroethene
 Concen: 0.36 ng
 RT: 13.99 min Scan# 1957
 Delta R.T. -0.006 min
 Lab File: 03212317.D
 Acq: 21 Mar 2023 14:25

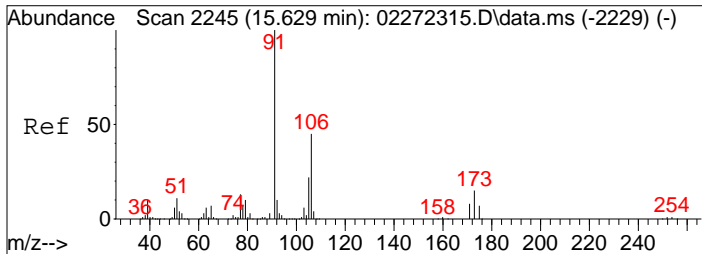
Tgt Ion	Resp	Lower	Upper
166	8787		
166	100		
164	76.3	58.6	98.6



#66
 Ethylbenzene
 Concen: 0.45 ng
 RT: 15.37 min Scan# 2200
 Delta R.T. -0.006 min
 Lab File: 03212317.D
 Acq: 21 Mar 2023 14:25

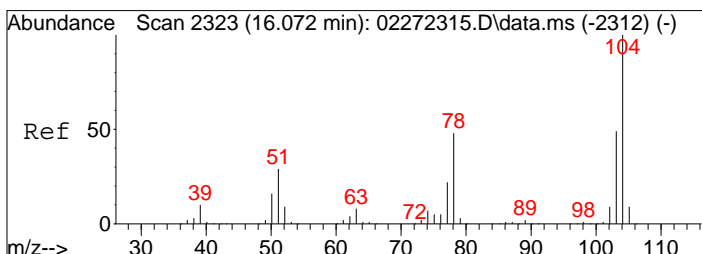
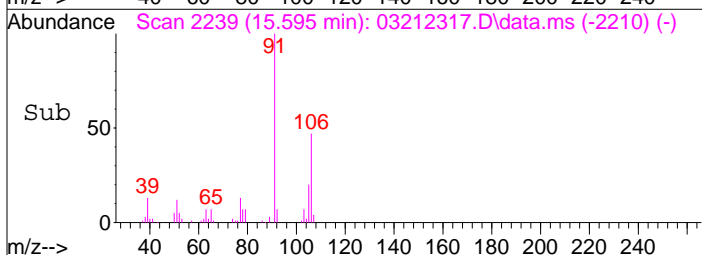
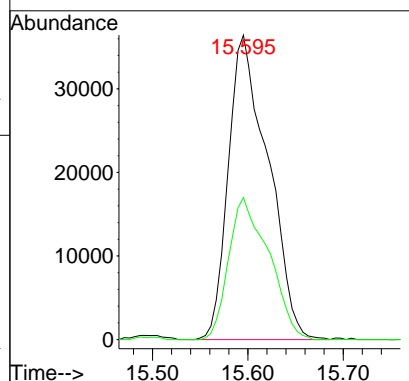
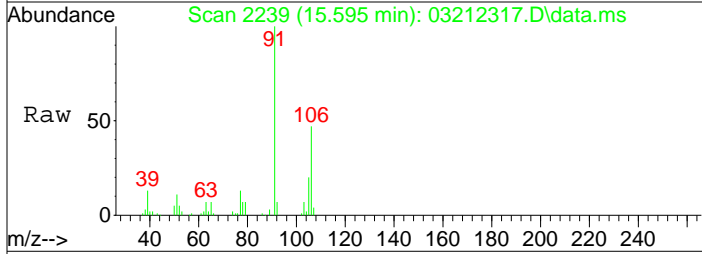
Tgt Ion	Resp	Lower	Upper
91	36600		
91	100		
106	29.8	10.3	50.3





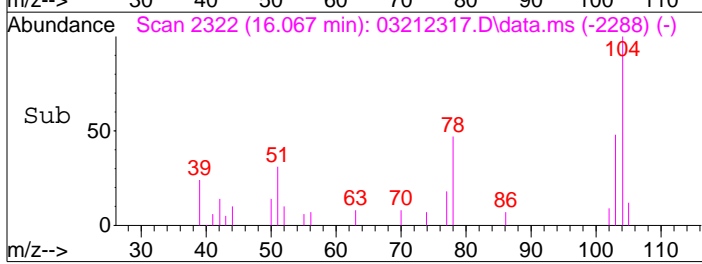
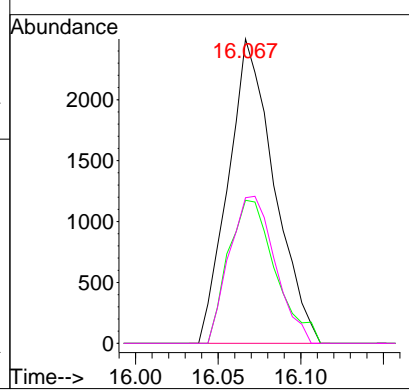
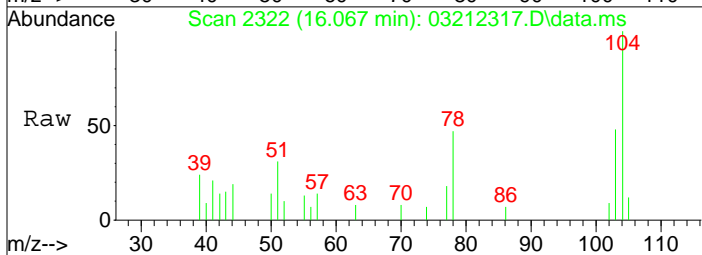
#67
 m- & p-Xylenes
 Concen: 1.57 ng
 RT: 15.60 min Scan# 2239
 Delta R.T. -0.034 min
 Lab File: 03212317.D
 Acq: 21 Mar 2023 14:25

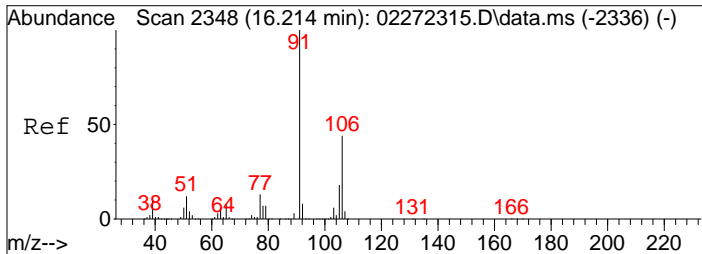
Tgt Ion	Resp	Lower	Upper
91	105381		
106	47.1	25.0	65.0



#69
 Styrene
 Concen: 0.11 ng
 RT: 16.07 min Scan# 2322
 Delta R.T. -0.006 min
 Lab File: 03212317.D
 Acq: 21 Mar 2023 14:25

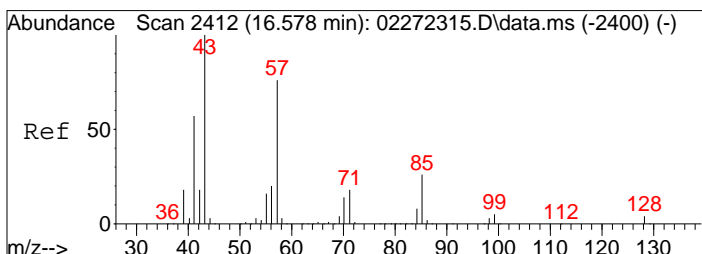
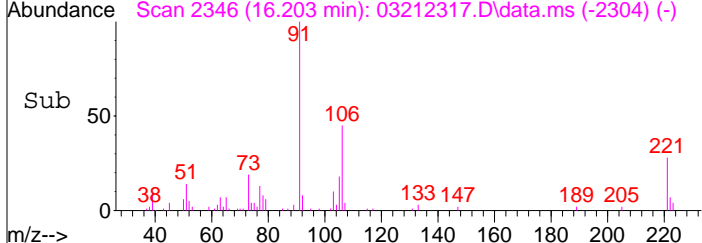
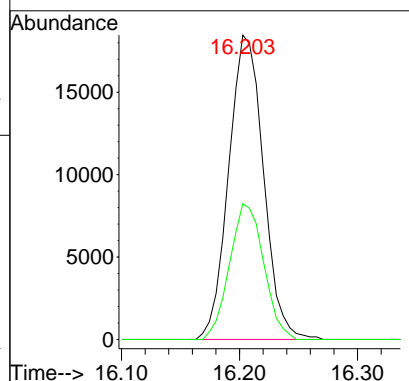
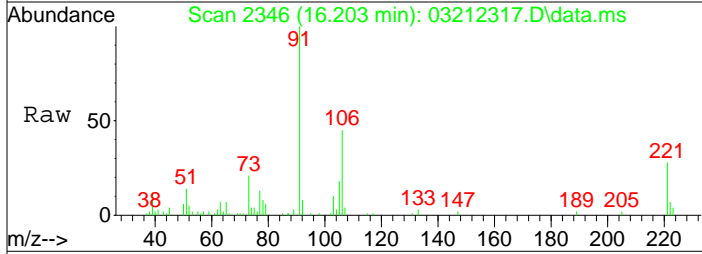
Tgt Ion	Resp	Lower	Upper
104	4833		
78	48.1	29.2	69.2
103	48.1	29.2	69.2





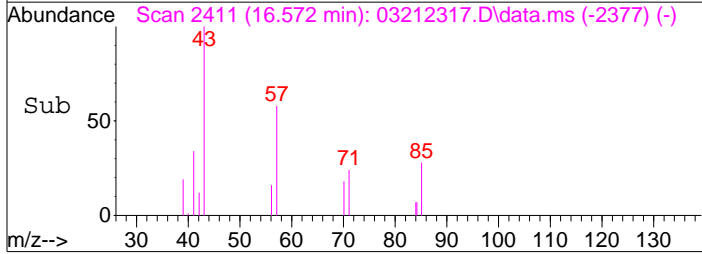
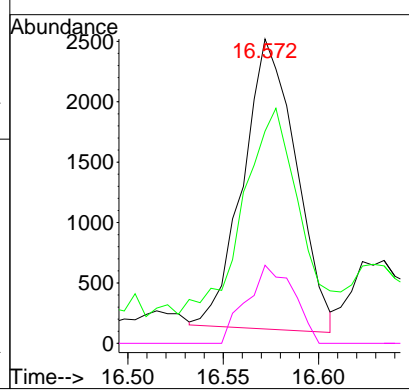
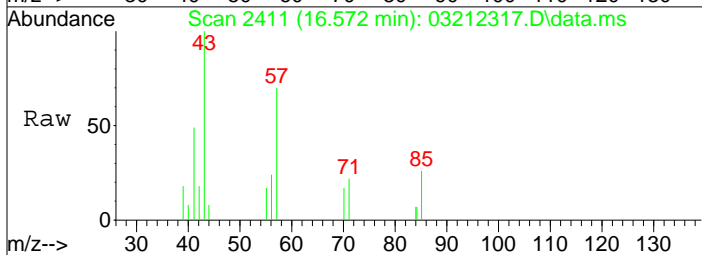
#70
 o-Xylene
 Concen: 0.57 ng
 RT: 16.20 min Scan# 2346
 Delta R.T. -0.011 min
 Lab File: 03212317.D
 Acq: 21 Mar 2023 14:25

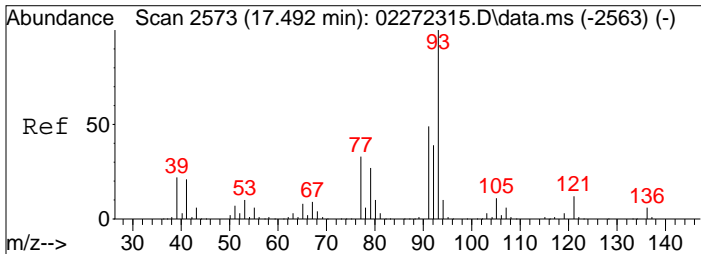
Tgt Ion	Resp	Lower	Upper
91	100		
106	43.7	24.0	64.0



#71
 n-Nonane
 Concen: 0.11 ng
 RT: 16.57 min Scan# 2411
 Delta R.T. -0.006 min
 Lab File: 03212317.D
 Acq: 21 Mar 2023 14:25

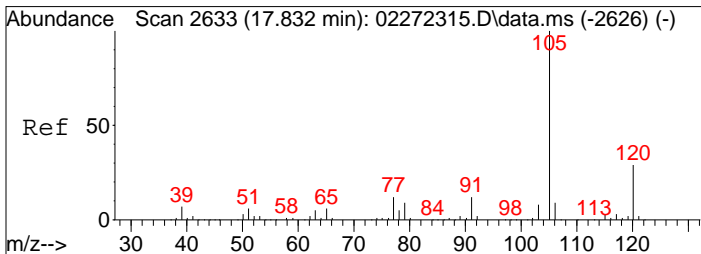
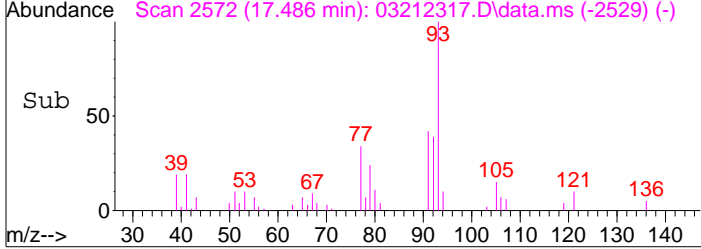
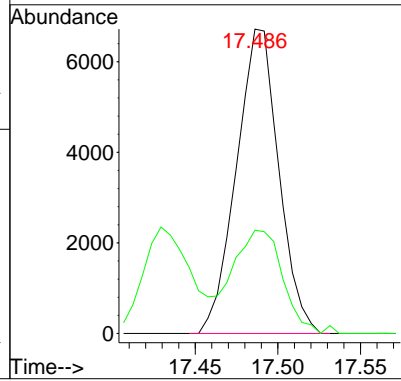
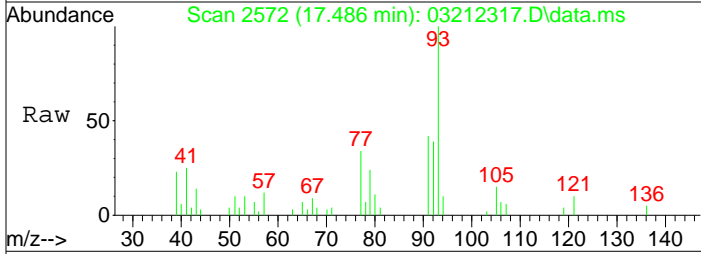
Tgt Ion	Resp	Lower	Upper
43	100		
57	76.6	56.2	96.2
85	23.9	6.1	46.1





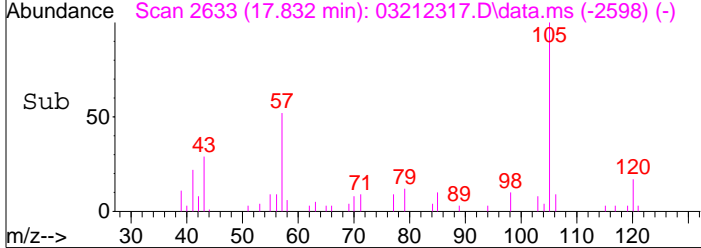
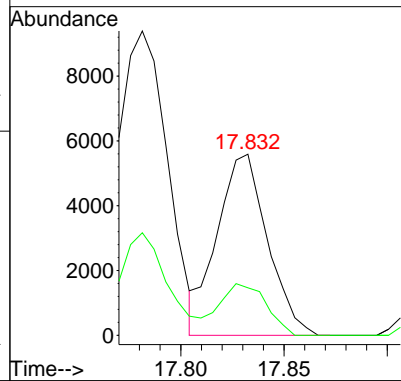
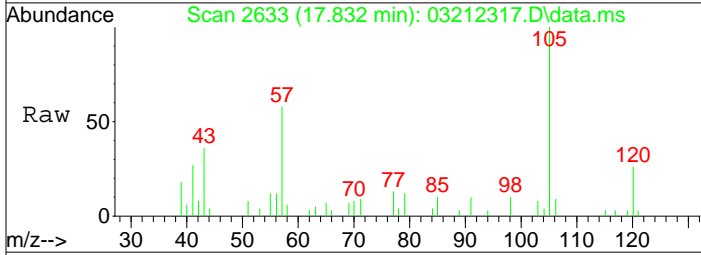
#75
 alpha-Pinene
 Concen: 0.35 ng
 RT: 17.49 min Scan# 2572
 Delta R.T. -0.006 min
 Lab File: 03212317.D
 Acq: 21 Mar 2023 14:25

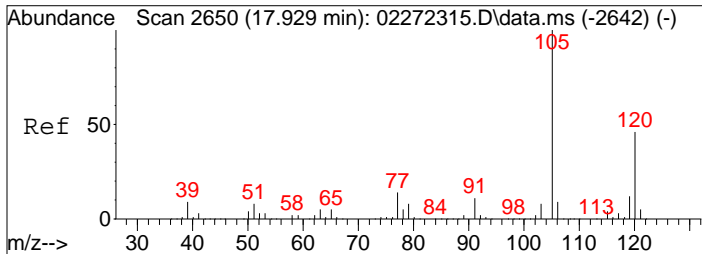
Tgt Ion:	93	Resp:	12013
Ion Ratio	93	Lower	Upper
	93	100	
	77	41.2	14.2 54.2



#78
 4-Ethyltoluene
 Concen: 0.12 ng
 RT: 17.83 min Scan# 2633
 Delta R.T. -0.000 min
 Lab File: 03212317.D
 Acq: 21 Mar 2023 14:25

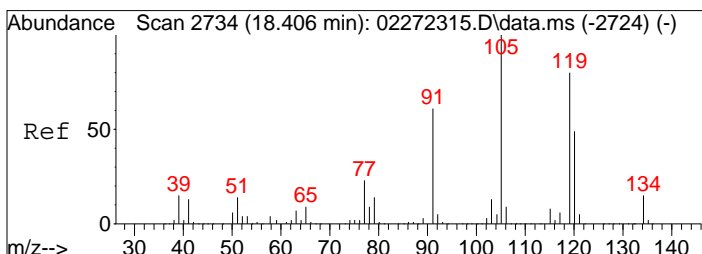
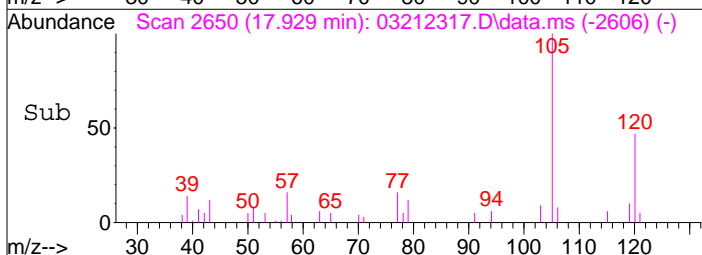
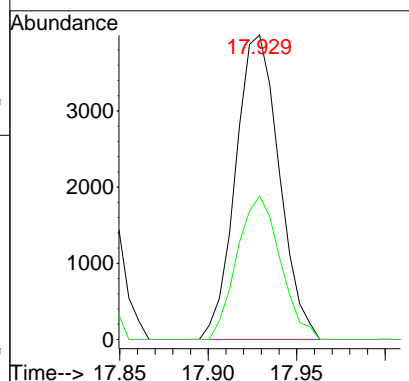
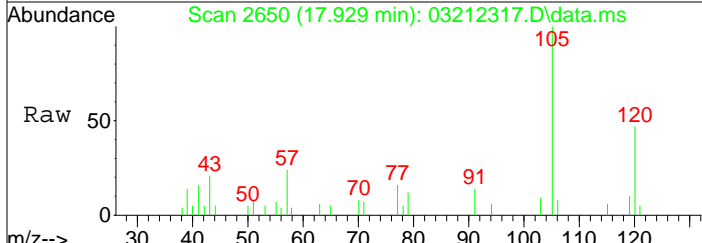
Tgt Ion:	105	Resp:	9470
Ion Ratio	105	Lower	Upper
	105	100	
	120	26.2	8.5 48.5





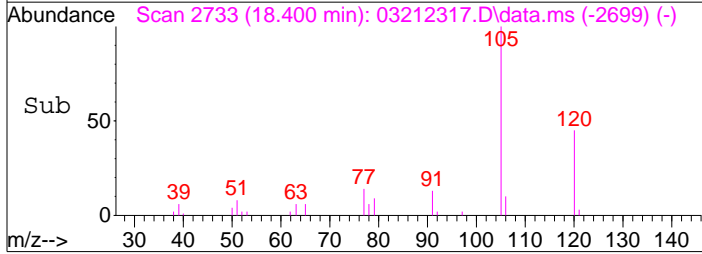
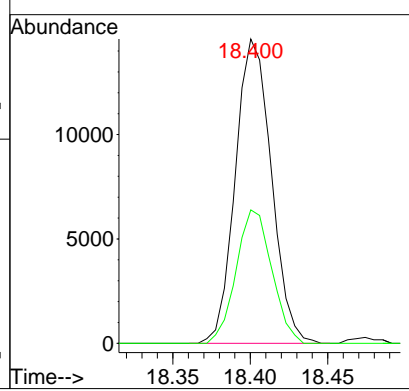
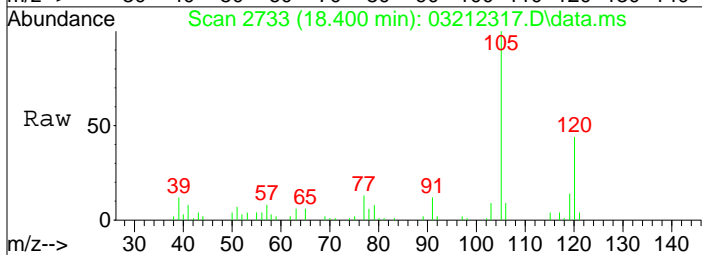
#79
 1,3,5-Trimethylbenzene
 Concen: 0.10 ng
 RT: 17.93 min Scan# 2650
 Delta R.T. -0.000 min
 Lab File: 03212317.D
 Acq: 21 Mar 2023 14:25

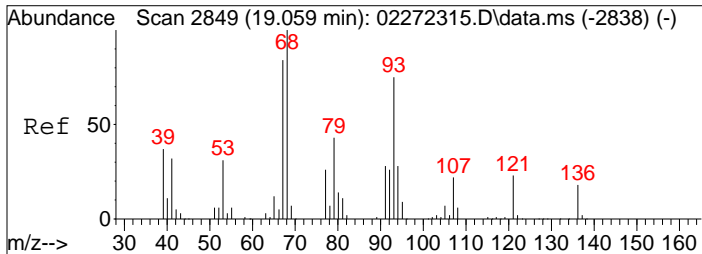
Tgt Ion	Resp	Lower	Upper
105	100		
120	46.8	25.5	65.5



#82
 1,2,4-Trimethylbenzene
 Concen: 0.33 ng
 RT: 18.40 min Scan# 2733
 Delta R.T. -0.006 min
 Lab File: 03212317.D
 Acq: 21 Mar 2023 14:25

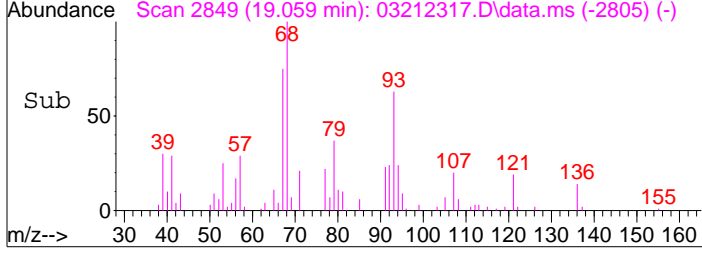
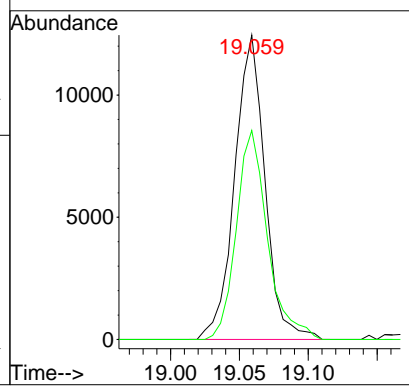
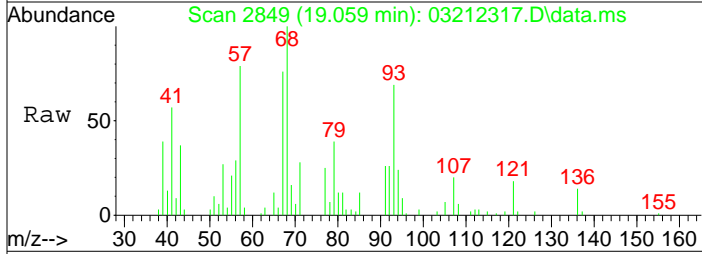
Tgt Ion	Resp	Lower	Upper
105	100		
120	43.4	30.5	70.5





#91
 d-Limonene
 Concen: 0.81 ng
 RT: 19.06 min Scan# 2849
 Delta R.T. -0.000 min
 Lab File: 03212317.D
 Acq: 21 Mar 2023 14:25

Tgt Ion:	68	Resp:	19068
Ion Ratio	Lower	Upper	
68	100		
93	70.6	55.7	95.7



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: New York State DEC
Client Sample ID: Building-2-SS2-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-006

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01468

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.41 Final Pressure (psig): 3.88

Canister Dilution Factor: 1.40

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	16	0.74	9.3	0.43	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.7	0.74	0.56	0.15	
74-87-3	Chloromethane	ND	0.29	ND	0.14	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.73	ND	0.10	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.060	
106-99-0	1,3-Butadiene	ND	0.29	ND	0.13	
74-83-9	Bromomethane	ND	0.29	ND	0.076	
75-00-3	Chloroethane	ND	0.29	ND	0.11	
64-17-5	Ethanol	49	7.0	26	3.7	
75-05-8	Acetonitrile	ND	1.4	ND	0.83	
107-02-8	Acrolein	ND	1.4	ND	0.61	
67-64-1	Acetone	20	7.4	8.3	3.1	
75-69-4	Trichlorofluoromethane (CFC 11)	1.5	0.73	0.27	0.13	
67-63-0	2-Propanol (Isopropyl Alcohol)	40	1.4	16	0.58	
107-13-1	Acrylonitrile	ND	1.4	ND	0.65	
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.039	
75-09-2	Methylene Chloride	ND	0.74	ND	0.21	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.74	ND	0.24	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.76	ND	0.099	
75-15-0	Carbon Disulfide	ND	1.5	ND	0.48	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.039	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.038	
1634-04-4	Methyl tert-Butyl Ether	ND	0.76	ND	0.21	
108-05-4	Vinyl Acetate	ND	7.0	ND	2.0	
78-93-3	2-Butanone (MEK)	1.9	1.5	0.64	0.49	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3

Client: New York State DEC
Client Sample ID: Building-2-SS2-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-006

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01468

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.41 Final Pressure (psig): 3.88

Canister Dilution Factor: 1.40

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	0.41	0.15	0.10	0.039	
141-78-6	Ethyl Acetate	7.7	2.9	2.1	0.82	
110-54-3	n-Hexane	ND	0.74	ND	0.21	
67-66-3	Chloroform	0.68	0.15	0.14	0.032	
109-99-9	Tetrahydrofuran (THF)	2.6	0.70	0.87	0.24	
107-06-2	1,2-Dichloroethane	ND	0.15	ND	0.038	
71-55-6	1,1,1-Trichloroethane	0.85	0.15	0.16	0.028	
71-43-2	Benzene	0.42	0.15	0.13	0.048	
56-23-5	Carbon Tetrachloride	0.55	0.15	0.088	0.024	
110-82-7	Cyclohexane	ND	1.5	ND	0.43	
78-87-5	1,2-Dichloropropane	ND	0.15	ND	0.033	
75-27-4	Bromodichloromethane	ND	0.15	ND	0.023	
79-01-6	Trichloroethene	1.2	0.15	0.23	0.029	
123-91-1	1,4-Dioxane	ND	0.74	ND	0.21	
80-62-6	Methyl Methacrylate	3.6	1.5	0.88	0.38	
142-82-5	n-Heptane	ND	0.74	ND	0.18	
10061-01-5	cis-1,3-Dichloropropene	ND	0.76	ND	0.17	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.38	
10061-02-6	trans-1,3-Dichloropropene	ND	0.71	ND	0.16	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.028	
108-88-3	Toluene	5.3	0.74	1.4	0.20	
591-78-6	2-Hexanone	ND	1.5	ND	0.38	
124-48-1	Dibromochloromethane	ND	0.15	ND	0.018	
106-93-4	1,2-Dibromoethane	ND	0.15	ND	0.020	
123-86-4	n-Butyl Acetate	ND	1.4	ND	0.29	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3 of 3

Client: New York State DEC
Client Sample ID: Building-2-SS2-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-006

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01468

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.41 Final Pressure (psig): 3.88

Canister Dilution Factor: 1.40

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.76	ND	0.16	
127-18-4	Tetrachloroethene	36	0.15	5.3	0.023	
108-90-7	Chlorobenzene	ND	0.74	ND	0.16	
100-41-4	Ethylbenzene	0.74	0.74	0.17	0.17	
179601-23-1	m,p-Xylenes	2.6	1.5	0.59	0.35	
75-25-2	Bromoform	ND	0.76	ND	0.073	
100-42-5	Styrene	ND	0.74	ND	0.17	
95-47-6	o-Xylene	0.92	0.74	0.21	0.17	
111-84-2	n-Nonane	ND	0.74	ND	0.14	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.022	
98-82-8	Cumene	ND	0.76	ND	0.15	
80-56-8	alpha-Pinene	ND	1.5	ND	0.28	
103-65-1	n-Propylbenzene	ND	0.76	ND	0.15	
622-96-8	4-Ethyltoluene	ND	0.77	ND	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND	0.74	ND	0.15	
95-63-6	1,2,4-Trimethylbenzene	ND	0.74	ND	0.15	
100-44-7	Benzyl Chloride	ND	3.0	ND	0.57	
541-73-1	1,3-Dichlorobenzene	ND	0.74	ND	0.12	
106-46-7	1,4-Dichlorobenzene	ND	0.74	ND	0.12	
95-50-1	1,2-Dichlorobenzene	ND	0.76	ND	0.13	
5989-27-5	d-Limonene	ND	1.5	ND	0.28	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.5	ND	0.16	
120-82-1	1,2,4-Trichlorobenzene	ND	1.5	ND	0.21	
91-20-3	Naphthalene	ND	0.77	ND	0.15	
87-68-3	Hexachlorobutadiene	ND	0.74	ND	0.070	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Data File : I:\MS09\DATA\2023 03\21\03212318.D
 Acq On : 21 Mar 2023 15:43
 Sample : P2301184-006 (1000ml)
 Misc : S35-02212305

Vial: 9
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 22 04:48:16 2023

DA 3/22/23

Quant Method : I:\MS09\METHODS\R9022723.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Tue Feb 28 08:30:18 2023

Response via : Initial Calibration

DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	7.20	130	174448	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.26	114	781739	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.80	54	177205	12.500	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.97	65	373279	12.639	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery	=	101.12%	
57) Toluene-d8 (SS2)	12.39	98	929681	13.807	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	110.48%	
73) Bromofluorobenzene (SS3)	16.79	174	284624	10.366	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	82.96%	

Target Compounds

						Qvalue
2) Propene	3.25	42	265798	11.455	ng	96
3) Dichlorodifluoromethan...	3.33	85	78948	1.960	ng	100
4) Chloromethane	3.48	50	2717	0.107	ng	88
5) 1,2-Dichloro-1,1,2,2-t...	3.59	135	1207	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	3.76	54	134	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	4.30	45	574587	34.709	ng	99
11) Acetonitrile	4.43	41	3275	N.D.		
12) Acrolein	4.52	56	3093	0.280	ng	93
13) Acetone	4.60	58	177631	14.160	ng	100
14) Trichlorofluoromethane	4.73	101	43371	1.080	ng	98
15) 2-Propanol (Isopropanol)	4.85	45	1413457	28.860	ng	95
16) Acrylonitrile	5.01	53	1509	N.D.		
17) 1,1-Dichloroethene	5.23	96	377	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.33	84	4164	0.251	ng	99
20) 3-Chloro-1-propene (Al...	5.43	41	142	N.D.		
21) Trichlorotrifluoroethane	5.56	151	5570	0.307	ng	# 76
22) Carbon Disulfide	5.58	76	2822	N.D.		
23) trans-1,2-Dichloroethene	6.11	61	660	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	6.29	73	333	N.D.		
26) Vinyl Acetate	6.41	86	2022	0.832	ng	# 1
27) 2-Butanone (MEK)	6.65	72	13419	1.342	ng	# 89
28) cis-1,2-Dichloroethene	7.04	61	8128	0.296	ng	93
29) Diisopropyl Ether	7.24	87	546	N.D.		
30) Ethyl Acetate	7.25	61	42188	5.488	ng	98
31) n-Hexane	7.27	57	9809	0.307	ng	99
32) Chloroform	7.33	83	17040	0.486	ng	97
34) Tetrahydrofuran (THF)	7.73	72	18449	1.842	ng	95
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.08	62	1329	N.D.		
38) 1,1,1-Trichloroethane	8.36	97	21039	0.610	ng	97
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	8.79	56	20583	No Calib	#	
41) Benzene	8.86	78	20066	0.301	ng	99
42) Carbon Tetrachloride	9.03	117	11619	0.395	ng	99
43) Cyclohexane	9.18	84	2724	0.110	ng	94
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	9.82	63	1099	N.D.		
46) Bromodichloromethane	10.02	83	120	N.D.		
47) Trichloroethene	10.10	130	17134	0.876	ng	98
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	10.20	57	27155	0.333	ng	98
50) Methyl Methacrylate	10.37	100	16193	2.572	ng	# 82

Data File : I:\MS09\DATA\2023 03\21\03212318.D
 Acq On : 21 Mar 2023 15:43
 Sample : P2301184-006 (1000ml)
 Misc : S35-02212305

Vial: 9
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 22 04:48:16 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

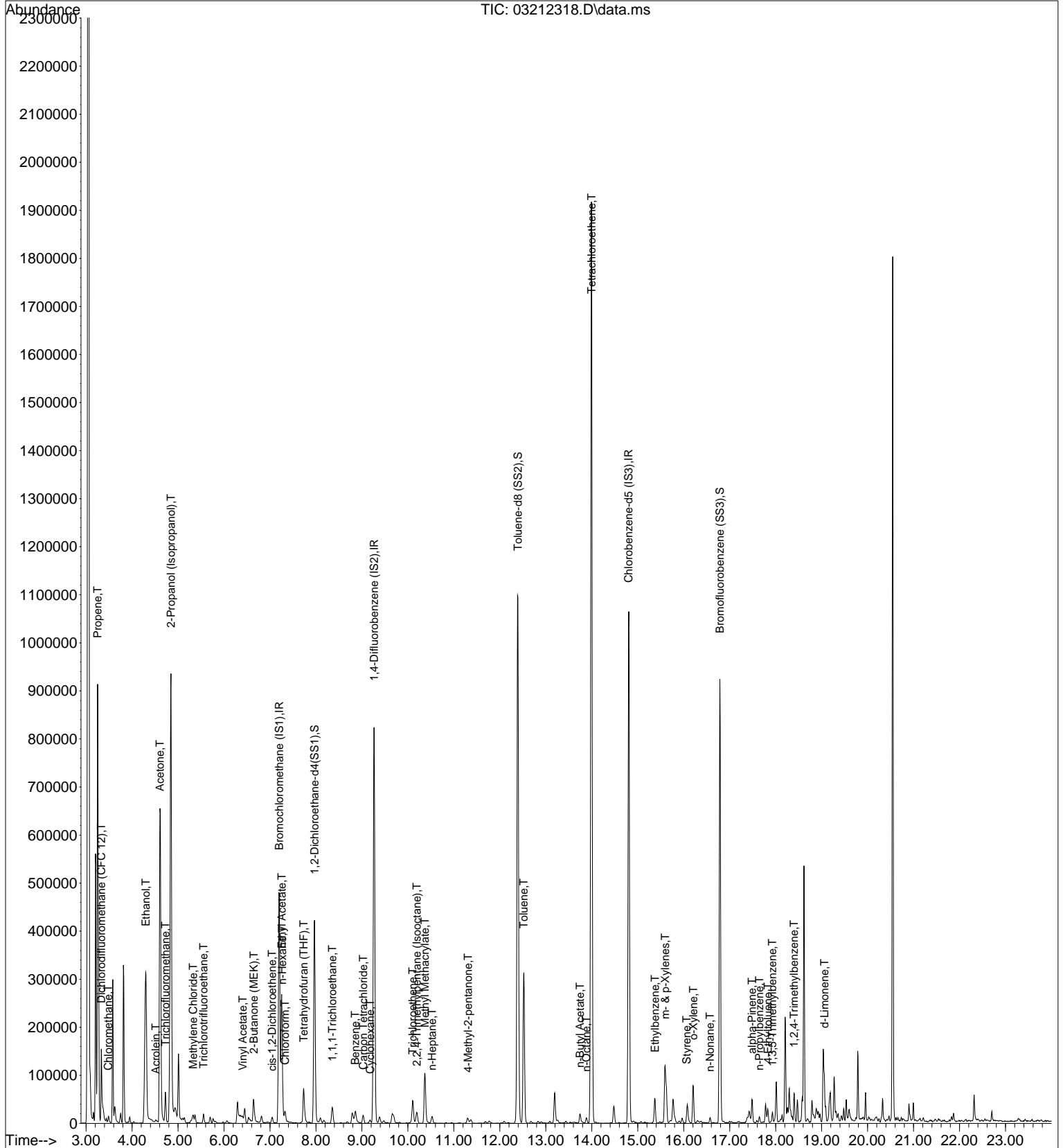
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
51) n-Heptane	10.52	71	3733	0.225	ng	94
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.31	58	3884	0.238	ng #	78
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.52	91	273065	3.809	ng	97
59) 2-Hexanone	0.00	43	0	N.D.	d	
60) Dibromochloromethane	13.04	129	108	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.74	43	20554	0.410	ng	98
63) n-Octane	13.88	57	1928	0.123	ng	96
64) Tetrachloroethene	13.99	166	638998	25.853	ng	100
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	15.37	91	43746	0.532	ng	100
67) m- & p-Xylenes	15.60	91	123840	1.835	ng	97
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.07	104	7859	0.185	ng	99
70) o-Xylene	16.21	91	43676	0.657	ng	99
71) n-Nonane	16.57	43	5679	0.135	ng	92
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	17.00	105	2998	N.D.		
75) alpha-Pinene	17.49	93	19755	0.572	ng	98
76) n-Propylbenzene	17.64	91	10005	0.102	ng	99
77) 3-Ethyltoluene	17.00	105	2998	No Calib		
78) 4-Ethyltoluene	17.83	105	12256	0.158	ng	99
79) 1,3,5-Trimethylbenzene	17.93	105	9774	0.140	ng	99
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.00	105	2998	No Calib		
82) 1,2,4-Trimethylbenzene	18.40	105	31041	0.439	ng	90
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	0.00	91	0	N.D.	d	
85) 1,3-Dichlorobenzene	18.55	146	354	N.D.		
86) 1,4-Dichlorobenzene	18.63	146	496	N.D.		
87) sec-Butylbenzene	18.71	105	1517	N.D.		
88) 4-Isopropyltoluene (p-...	18.90	119	6745	N.D.		
89) 1,2,3-Trimethylbenzene	17.00	105	2998	No Calib		
90) 1,2-Dichlorobenzene	19.01	146	351	N.D.		
91) d-Limonene	19.06	68	19476	0.822	ng	98
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.08	58	1409	No Calib	#	
94) 1,2,4-Trichlorobenzene	20.82	180	277	N.D.		
95) Naphthalene	20.92	128	4240	N.D.		
96) n-Dodecane	19.04	58	3871	No Calib	#	
97) Hexachlorobutadiene	21.28	225	131	N.D.		
98) Cyclohexanone	15.24	55	166	No Calib	#	
99) tert-Butylbenzene	18.41	119	3915	N.D.		
100) n-Butylbenzene	19.37	91	2980	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\21\03212318.D
 Acq On : 21 Mar 2023 15:43
 Sample : P2301184-006 (1000ml)
 Misc : S35-02212305

Vial: 9
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 22 04:48:16 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2023 03\21\03212318.D
 Acq On : 21 Mar 2023 15:43
 Sample : P2301184-006 (1000ml)
 Misc : S35-02212305

Vial: 9
 Operator: WA/SR
 Inst : MS09

3/22/23

Quant Time: Mar 22 04:48:16 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	7.20	130	174448	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.26	114	781739	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.80	54	177205	12.500	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.97	65	373279	12.639	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery	=	101.12%	
57) Toluene-d8 (SS2)	12.39	98	929681	13.807	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	110.48%	
73) Bromofluorobenzene (SS3)	16.79	174	284624	10.366	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	82.96%	

Target Compounds

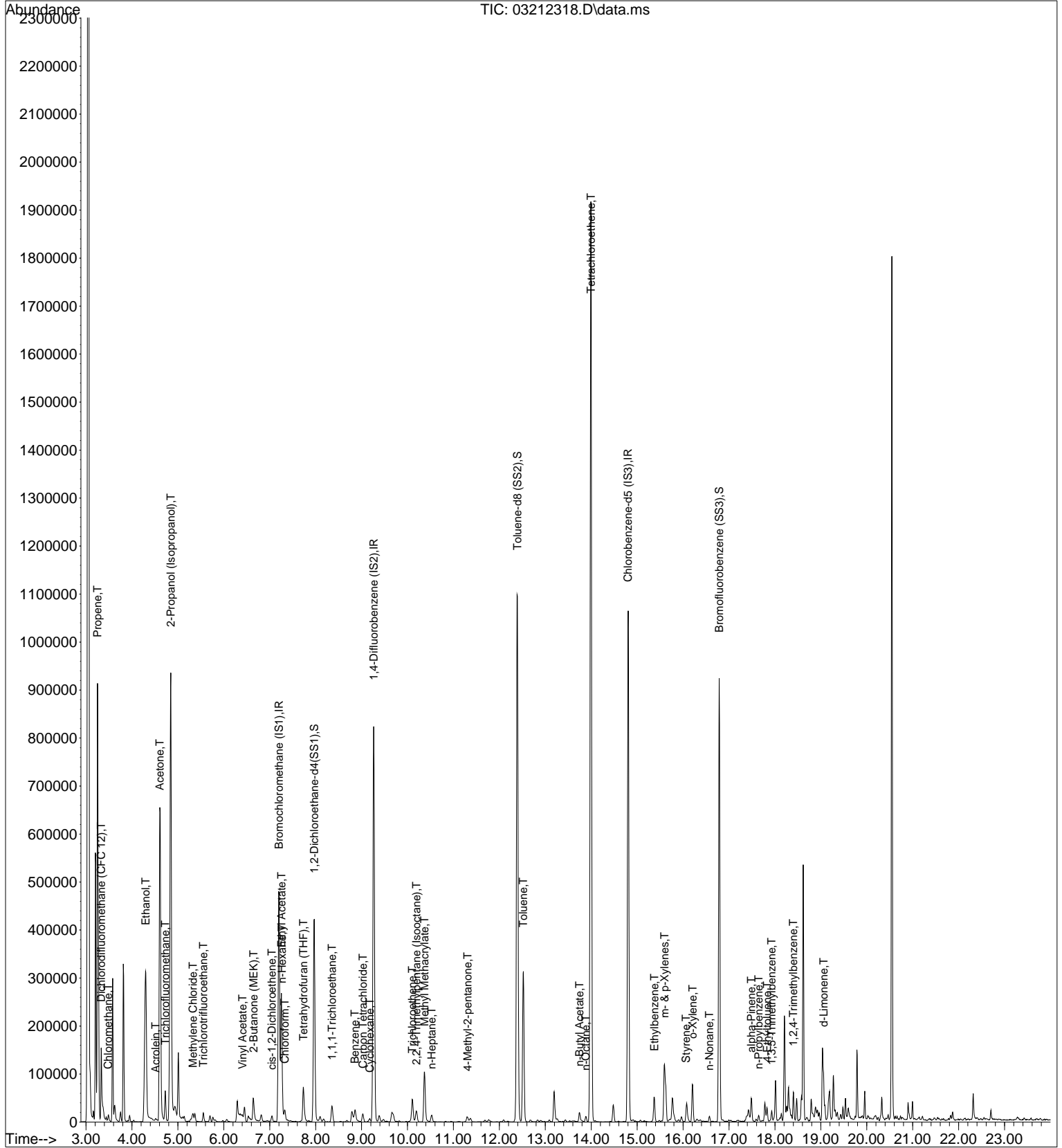
	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.25	42	265798	11.455	ng	96
3) Dichlorodifluoromethan...	3.33	85	78948	1.960	ng	100
4) Chloromethane	3.48	50	2717	0.107	ng	88
10) Ethanol	4.30	45	574587	34.709	ng	99
12) Acrolein	4.52	56	3093	0.280	ng	93
13) Acetone	4.60	58	177631	14.160	ng	100
14) Trichlorofluoromethane	4.73	101	43371	1.080	ng	98
15) 2-Propanol (Isopropanol)	4.85	45	1413457	28.860	ng	95
19) Methylene Chloride	5.33	84	4164	0.251	ng	99
21) Trichlorotrifluoroethane	5.56	151	5570	0.307	ng	# 76
26) Vinyl Acetate	6.41	86	2022	0.832	ng	# 1
27) 2-Butanone (MEK)	6.65	72	13419	1.342	ng	# 89
28) cis-1,2-Dichloroethene	7.04	61	8128	0.296	ng	93
30) Ethyl Acetate	7.25	61	42188	5.488	ng	98
31) n-Hexane	7.27	57	9809	0.307	ng	99
32) Chloroform	7.33	83	17040	0.486	ng	97
34) Tetrahydrofuran (THF)	7.73	72	18449	1.842	ng	95
38) 1,1,1-Trichloroethane	8.36	97	21039	0.610	ng	97
41) Benzene	8.86	78	20066	0.301	ng	99
42) Carbon Tetrachloride	9.03	117	11619	0.395	ng	99
43) Cyclohexane	9.18	84	2724	0.110	ng	94
47) Trichloroethene	10.10	130	17134	0.876	ng	98
49) 2,2,4-Trimethylpentane...	10.20	57	27155	0.333	ng	98
50) Methyl Methacrylate	10.37	100	16193	2.572	ng	# 82
51) n-Heptane	10.52	71	3733	0.225	ng	94
53) 4-Methyl-2-pentanone	11.31	58	3884	0.238	ng	# 78
58) Toluene	12.52	91	273065	3.809	ng	97
62) n-Butyl Acetate	13.74	43	20554	0.410	ng	98
63) n-Octane	13.88	57	1928	0.123	ng	96
64) Tetrachloroethene	13.99	166	638998	25.853	ng	100
66) Ethylbenzene	15.37	91	43746	0.532	ng	100
67) m- & p-Xylenes	15.60	91	123840	1.835	ng	97
69) Styrene	16.07	104	7859	0.185	ng	99
70) o-Xylene	16.21	91	43676	0.657	ng	99
71) n-Nonane	16.57	43	5679	0.135	ng	92
75) alpha-Pinene	17.49	93	19755	0.572	ng	98
76) n-Propylbenzene	17.64	91	10005	0.102	ng	99
78) 4-Ethyltoluene	17.83	105	12256	0.158	ng	99
79) 1,3,5-Trimethylbenzene	17.93	105	9774	0.140	ng	99
82) 1,2,4-Trimethylbenzene	18.40	105	31041	0.439	ng	90
91) d-Limonene	19.06	68	19476	0.822	ng	98

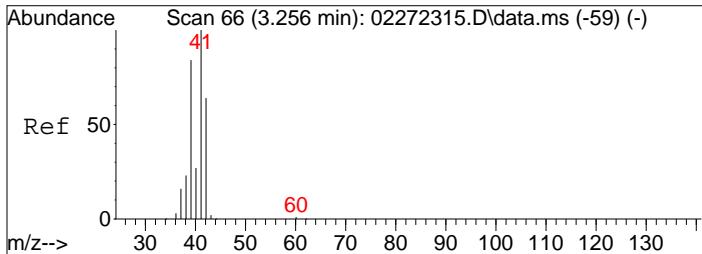
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS09\DATA\2023 03\21\03212318.D
Acq On : 21 Mar 2023 15:43
Sample : P2301184-006 (1000ml)
Misc : S35-02212305

Vial: 9
Operator: WA/SR
Inst : MS09

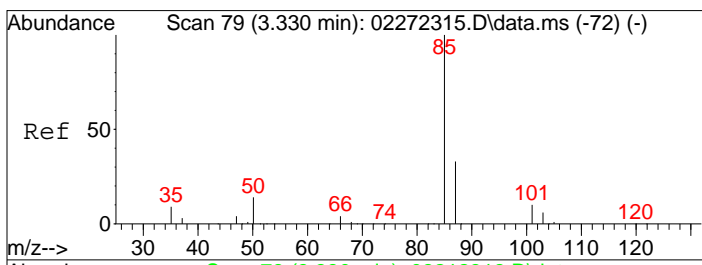
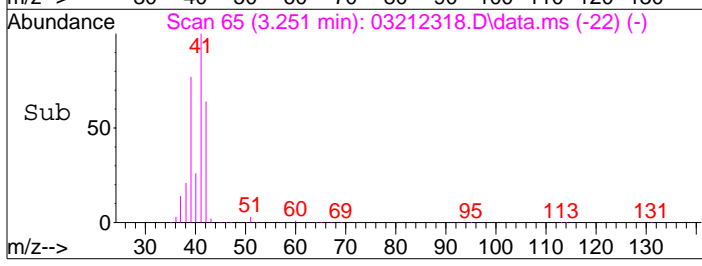
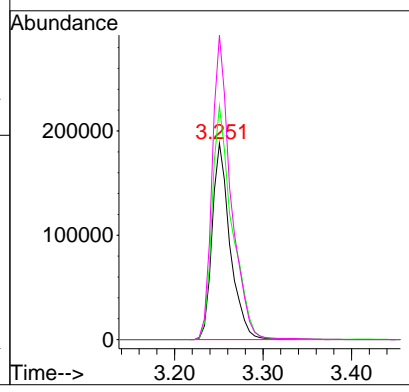
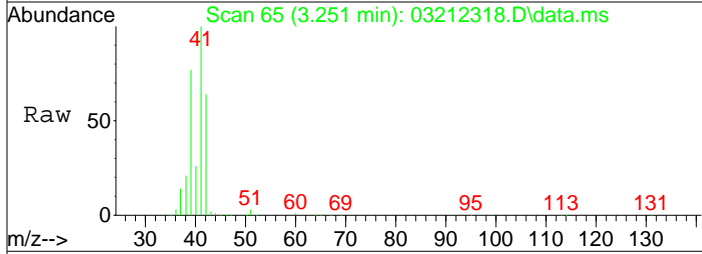
Quant Time: Mar 22 04:48:16 2023
Quant Method : I:\MS09\METHODS\R9022723.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Feb 28 08:30:18 2023
Response via : Initial Calibration
DataAcq Meth:TO15.M





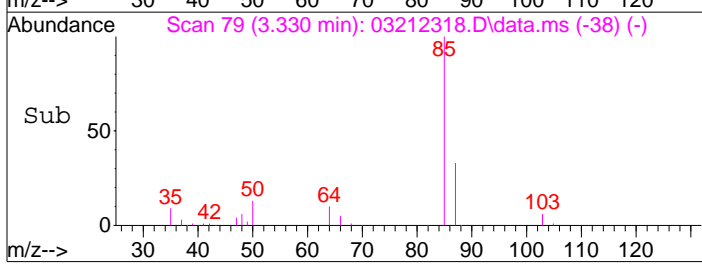
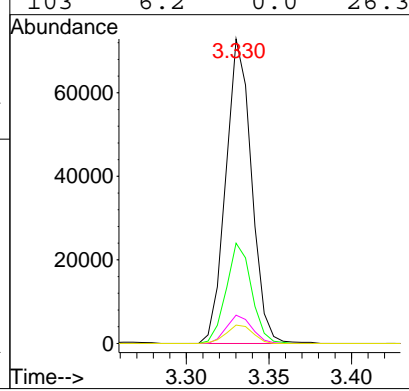
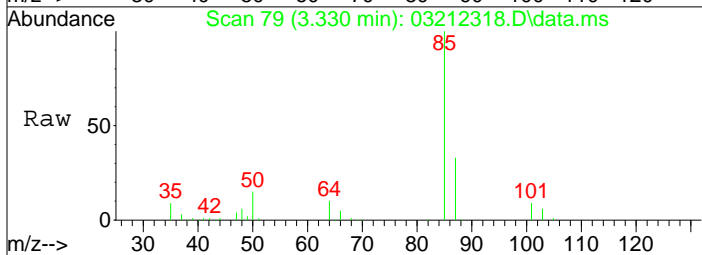
#2
 Propene
 Concen: 11.45 ng
 RT: 3.25 min Scan# 65
 Delta R.T. -0.006 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

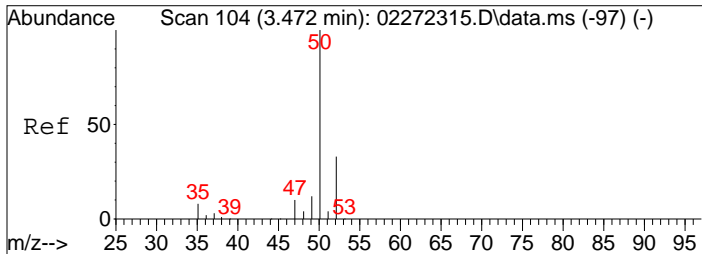
Tgt Ion:	42	Resp:	265798
Ion Ratio	Lower	Upper	
42	100		
39	133.1	110.0	150.0
41	161.6	135.8	175.8



#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.96 ng
 RT: 3.33 min Scan# 79
 Delta R.T. -0.020 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

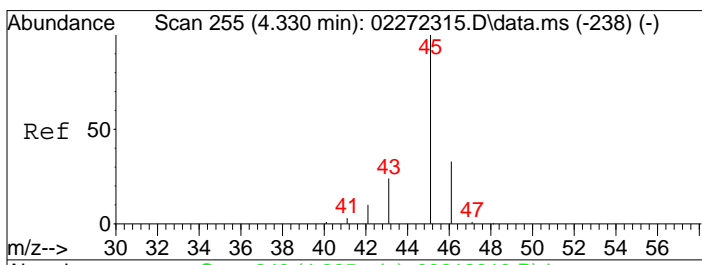
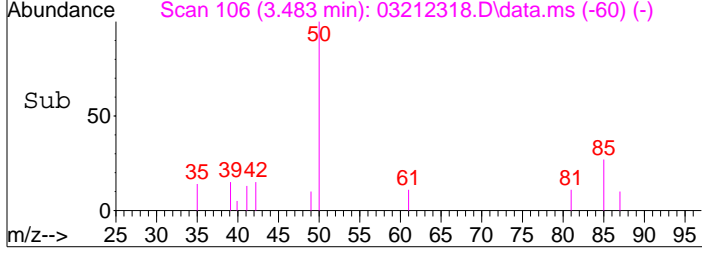
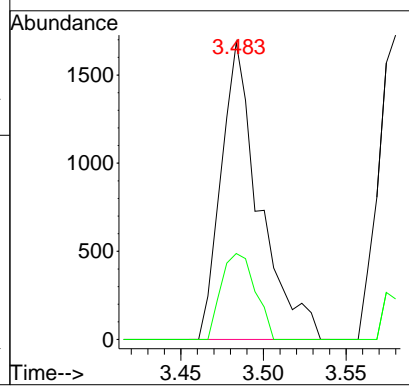
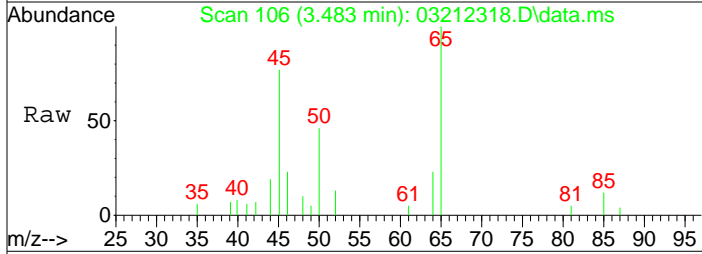
Tgt Ion:	85	Resp:	78948
Ion Ratio	Lower	Upper	
85	100		
87	32.3	12.3	52.3
101	9.2	0.0	29.7
103	6.2	0.0	26.3





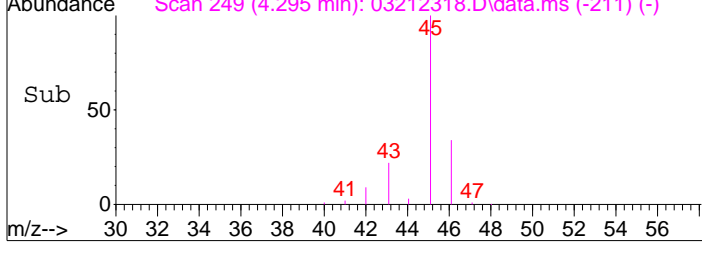
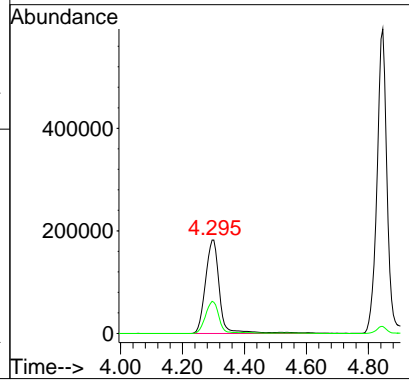
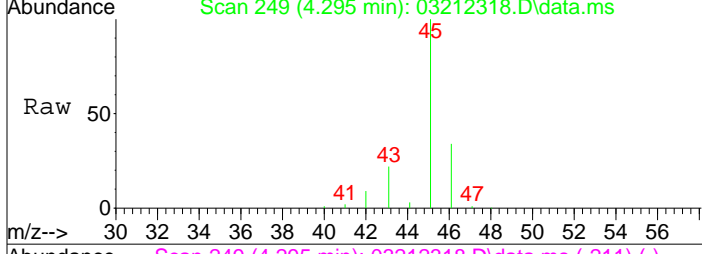
#4
 Chloromethane
 Concen: 0.11 ng
 RT: 3.48 min Scan# 106
 Delta R.T. 0.011 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

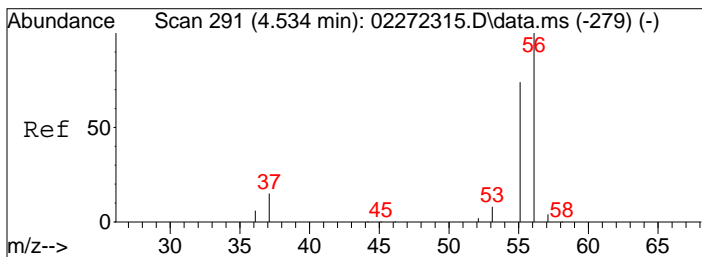
Tgt Ion	Resp	Lower	Upper
50	2717		
52	25.8	12.8	52.8



#10
 Ethanol
 Concen: 34.71 ng
 RT: 4.30 min Scan# 249
 Delta R.T. -0.034 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

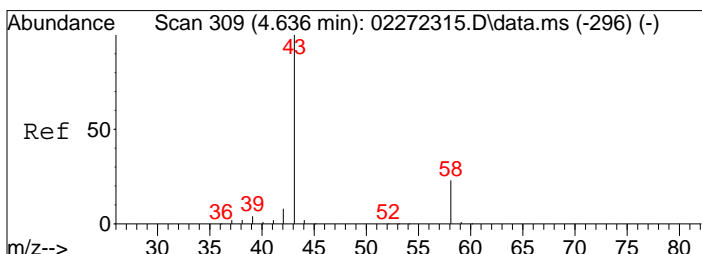
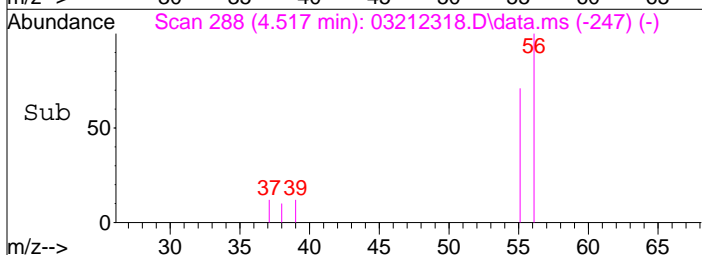
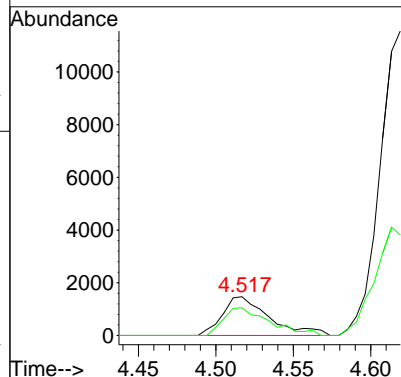
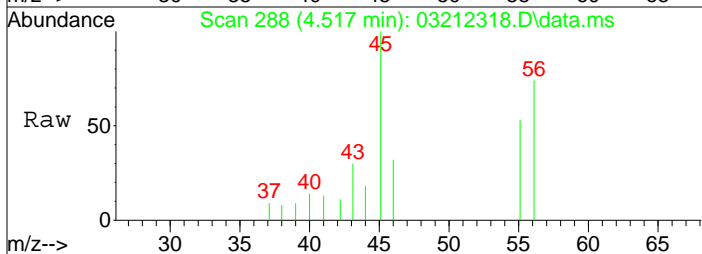
Tgt Ion	Resp	Lower	Upper
45	574587		
46	34.1	13.4	53.4





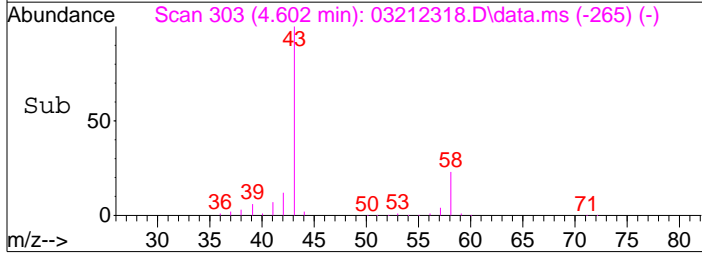
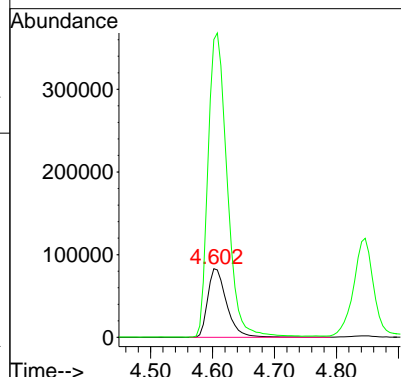
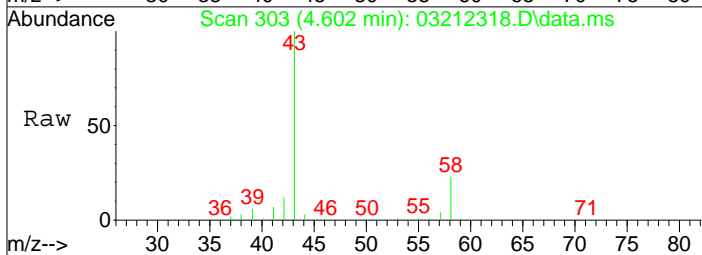
#12
 Acrolein
 Concen: 0.28 ng
 RT: 4.52 min Scan# 288
 Delta R.T. -0.017 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

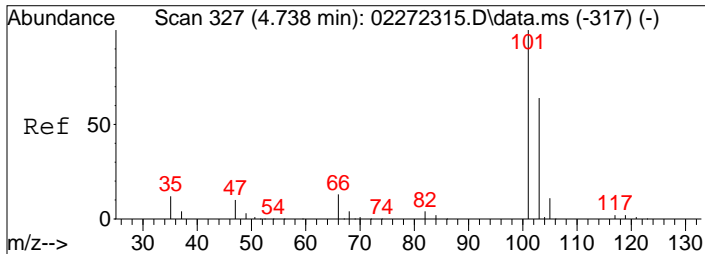
Tgt Ion: 56 Resp: 3093
 Ion Ratio Lower Upper
 56 100
 55 70.4 56.4 96.4



#13
 Acetone
 Concen: 14.16 ng
 RT: 4.60 min Scan# 303
 Delta R.T. -0.034 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

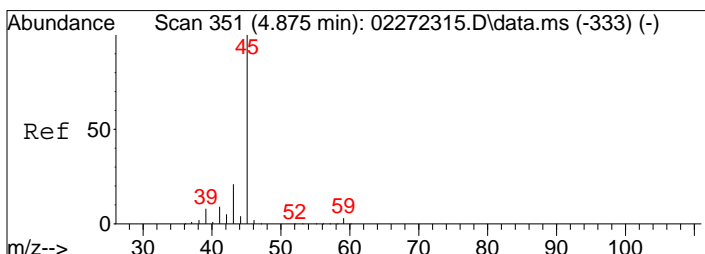
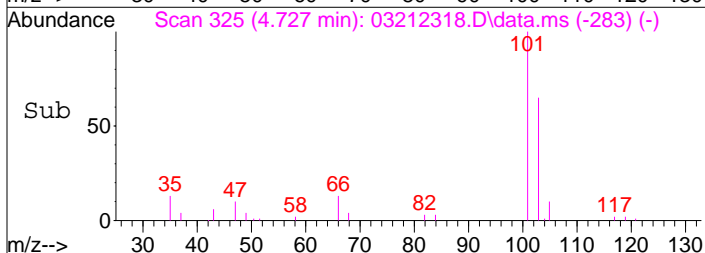
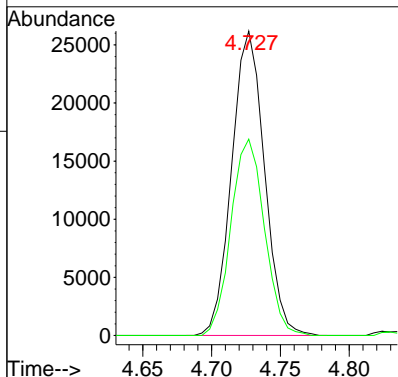
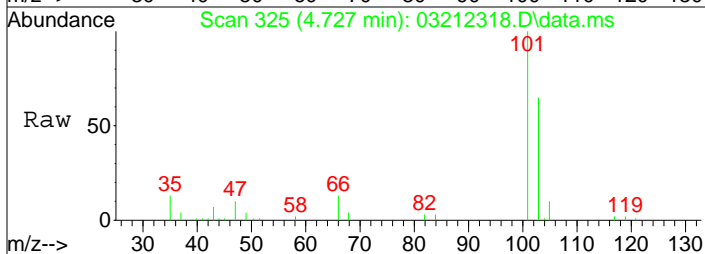
Tgt Ion: 58 Resp: 177631
 Ion Ratio Lower Upper
 58 100
 43 445.6 414.4 474.4





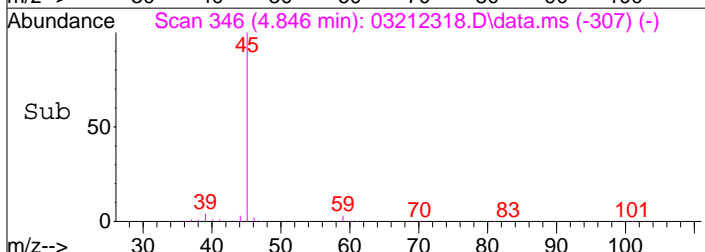
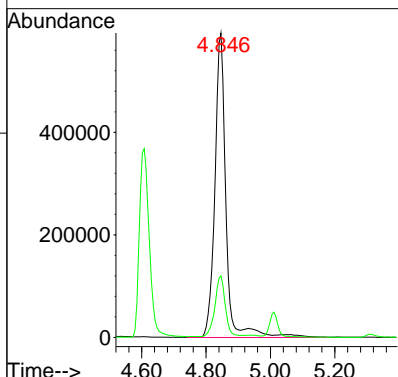
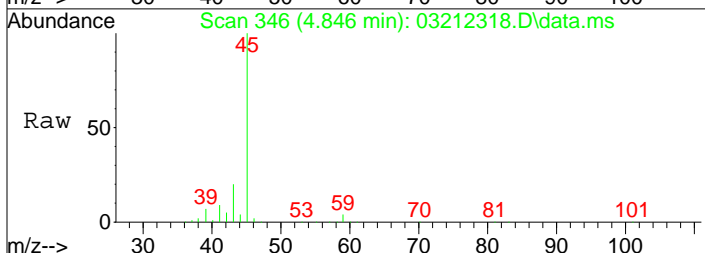
#14
 Trichlorofluoromethane
 Concen: 1.08 ng
 RT: 4.73 min Scan# 325
 Delta R.T. -0.011 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

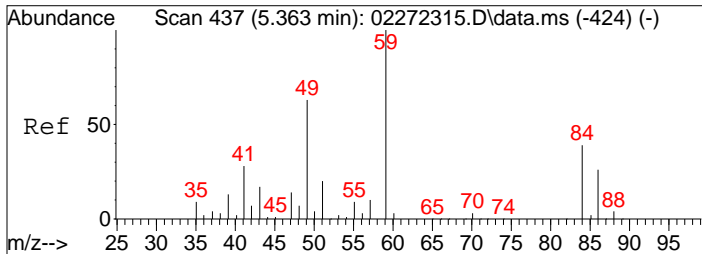
Tgt Ion: 101 Resp: 43371
 Ion Ratio Lower Upper
 101 100
 103 65.8 44.0 84.0



#15
 2-Propanol (Isopropanol)
 Concen: 28.86 ng
 RT: 4.85 min Scan# 346
 Delta R.T. -0.029 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

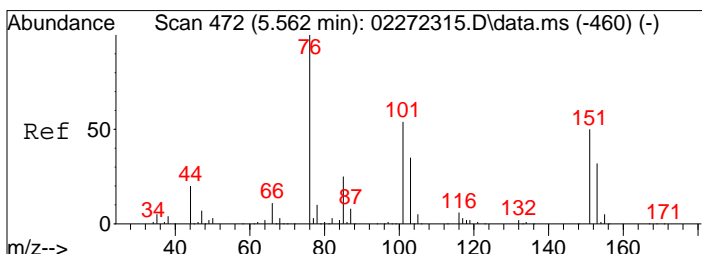
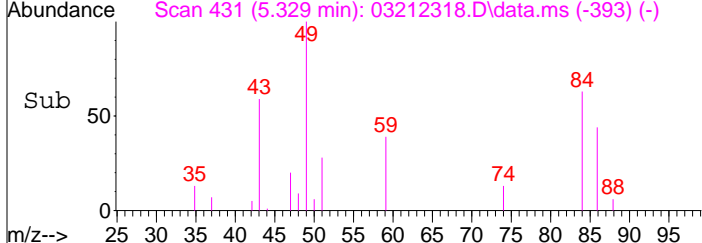
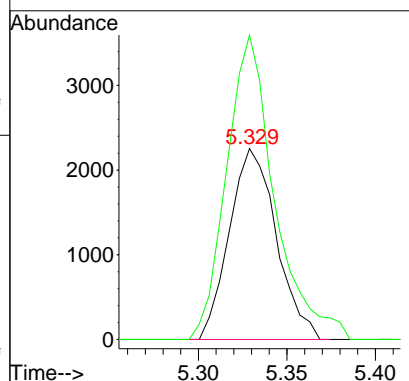
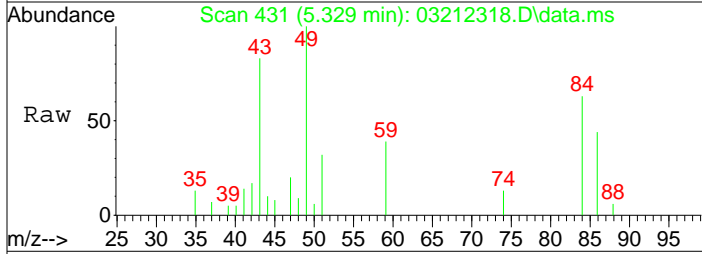
Tgt Ion: 45 Resp: 1413457
 Ion Ratio Lower Upper
 45 100
 43 19.5 1.6 41.6





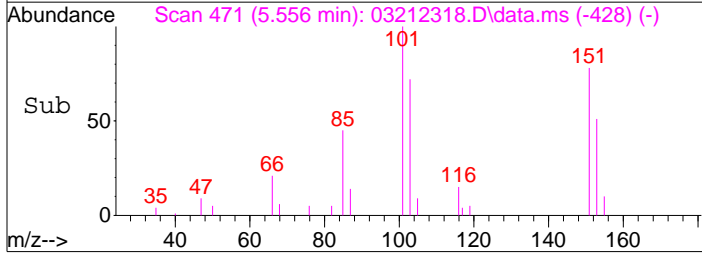
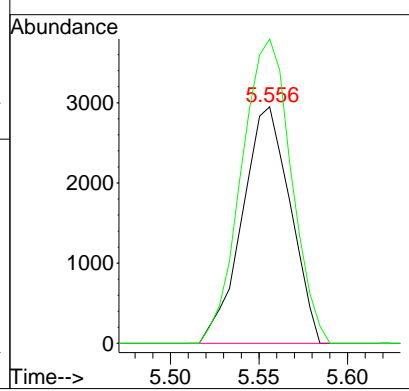
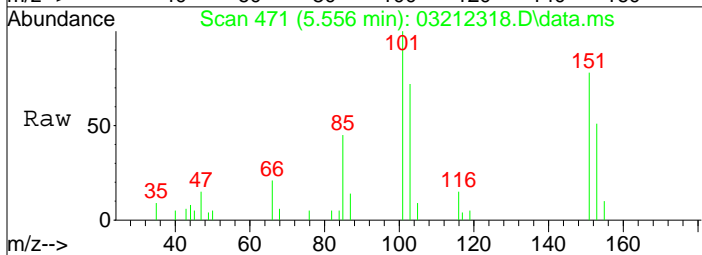
#19
 Methylene Chloride
 Concen: 0.25 ng
 RT: 5.33 min Scan# 431
 Delta R.T. -0.034 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

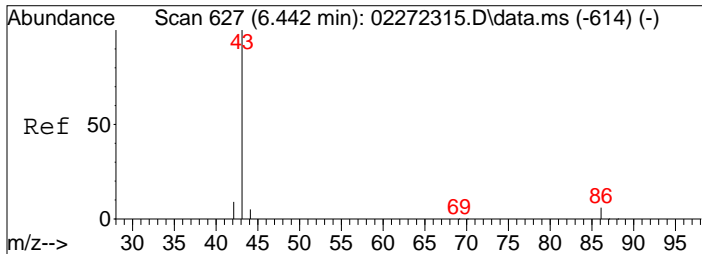
Tgt Ion:	84	Resp:	4164
Ion Ratio	Lower	Upper	
84	100		
49	162.4	136.0	186.0



#21
 Trichlorotrifluoroethane
 Concen: 0.31 ng
 RT: 5.56 min Scan# 471
 Delta R.T. -0.006 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

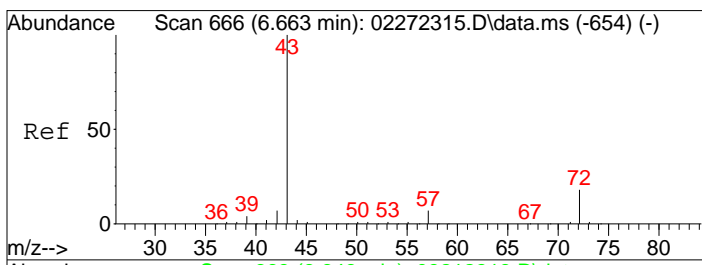
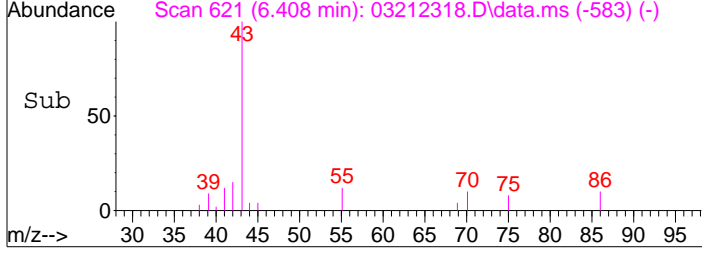
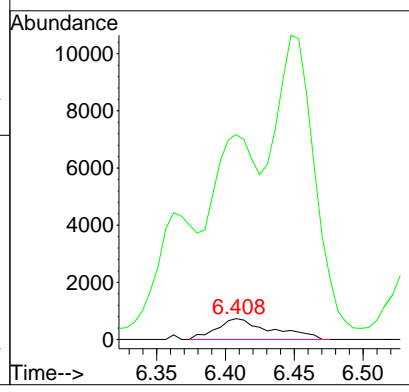
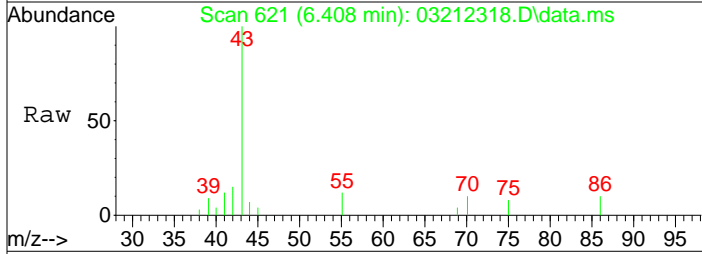
Tgt Ion:	151	Resp:	5570
Ion Ratio	Lower	Upper	
151	100		
101	133.7	88.2	128.2#





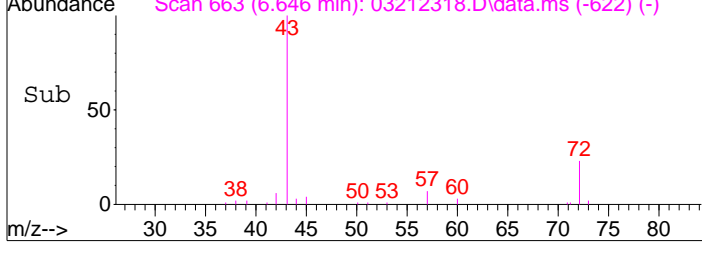
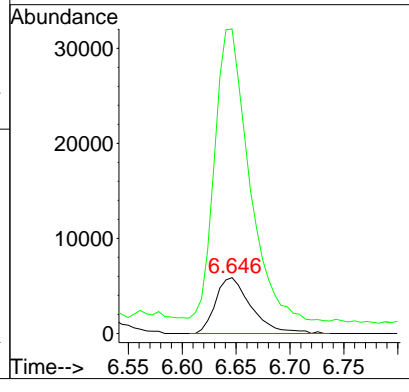
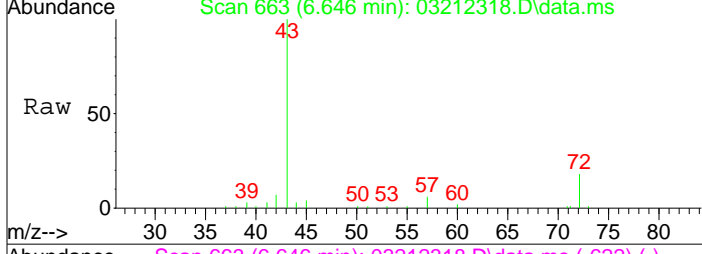
#26
 Vinyl Acetate
 Concen: 0.83 ng
 RT: 6.41 min Scan# 621
 Delta R.T. -0.034 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

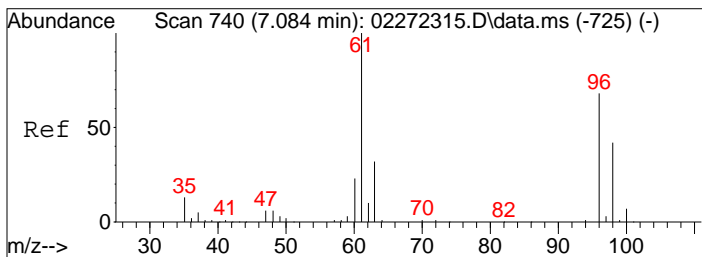
Tgt Ion	Resp	Lower	Upper
86	100		
43	724.8	1713.1	1753.1#



#27
 2-Butanone (MEK)
 Concen: 1.34 ng
 RT: 6.65 min Scan# 663
 Delta R.T. -0.017 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

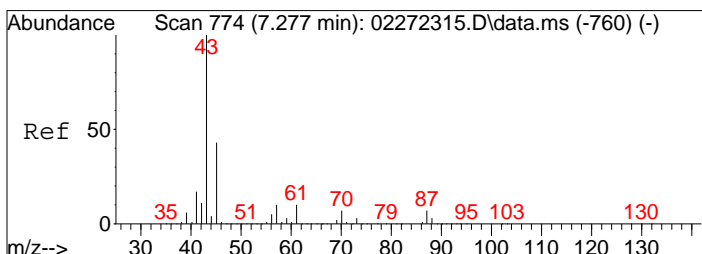
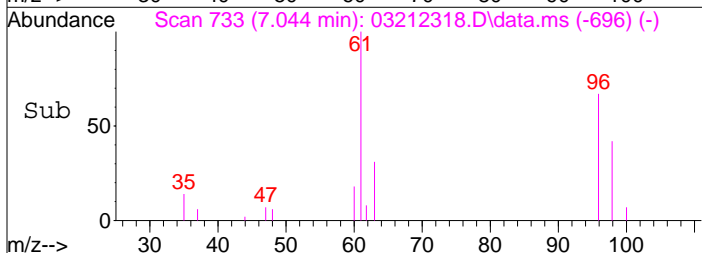
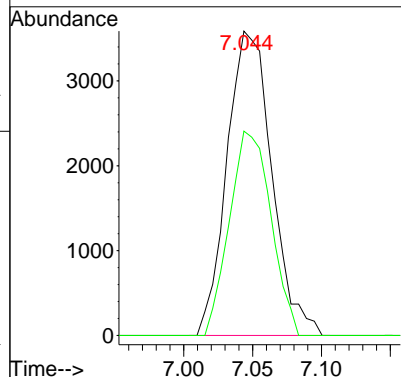
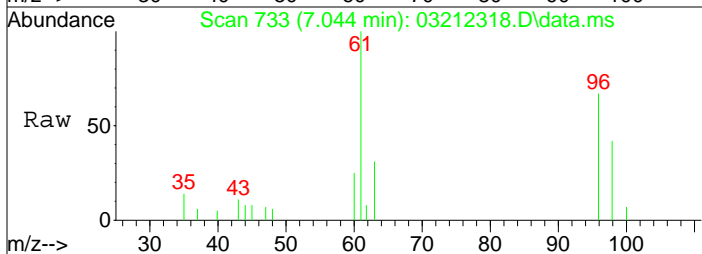
Tgt Ion	Resp	Lower	Upper
72	100		
43	523.0	536.0	576.0#





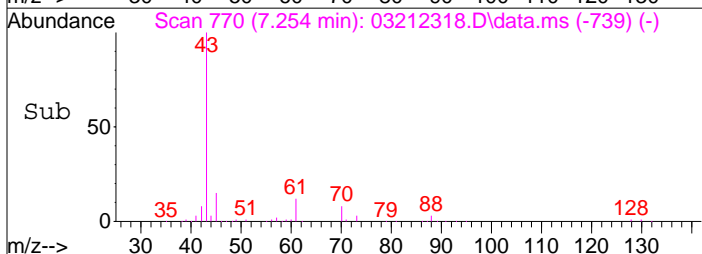
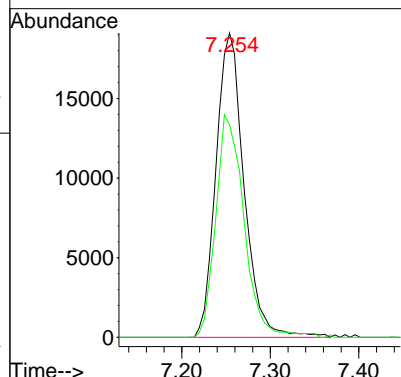
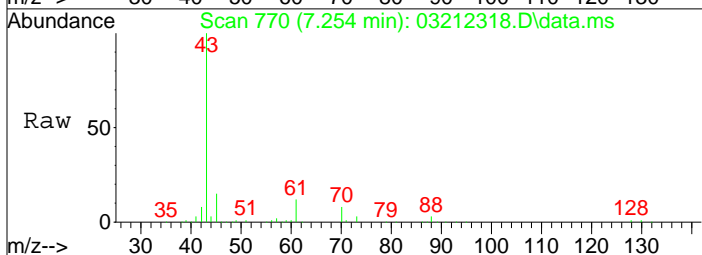
#28
 cis-1,2-Dichloroethene
 Concen: 0.30 ng
 RT: 7.04 min Scan# 733
 Delta R.T. -0.040 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

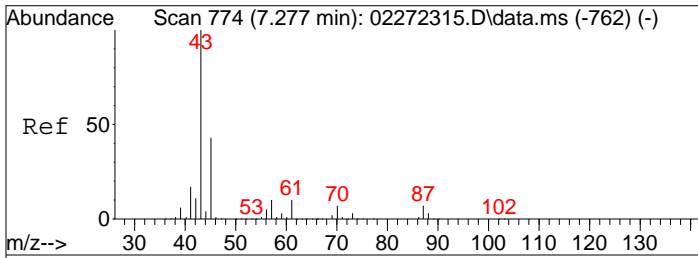
Tgt Ion: 61 Resp: 8128
 Ion Ratio Lower Upper
 61 100
 96 62.0 47.8 87.8



#30
 Ethyl Acetate
 Concen: 5.49 ng
 RT: 7.25 min Scan# 770
 Delta R.T. -0.023 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

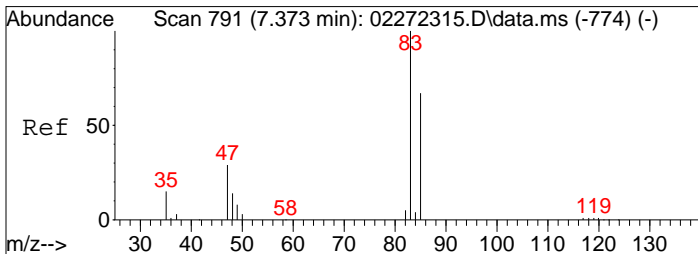
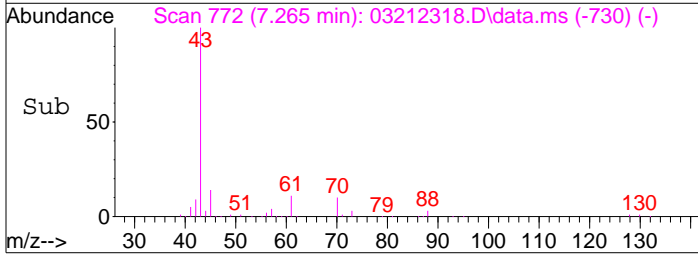
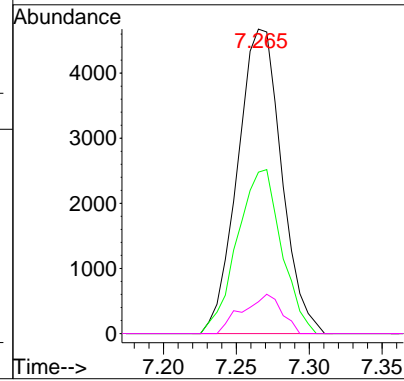
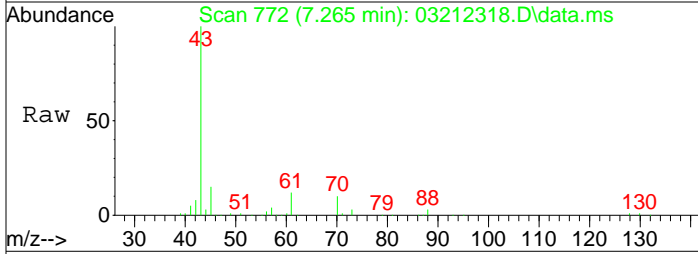
Tgt Ion: 61 Resp: 42188
 Ion Ratio Lower Upper
 61 100
 70 73.7 55.8 95.8





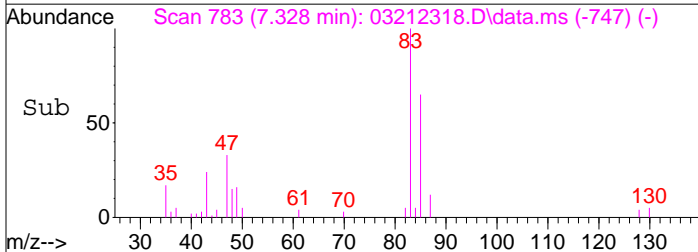
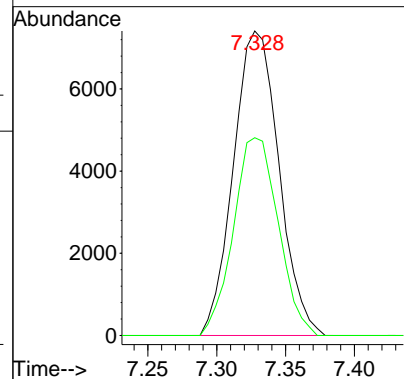
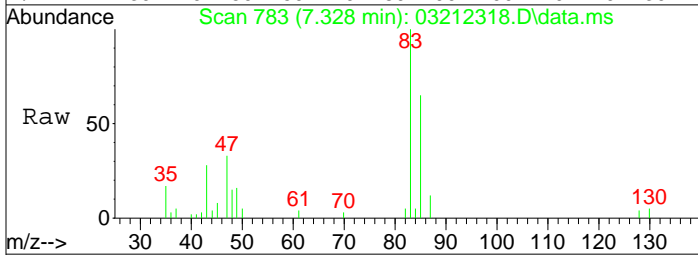
#31
 n-Hexane
 Concen: 0.31 ng
 RT: 7.27 min Scan# 772
 Delta R.T. -0.011 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

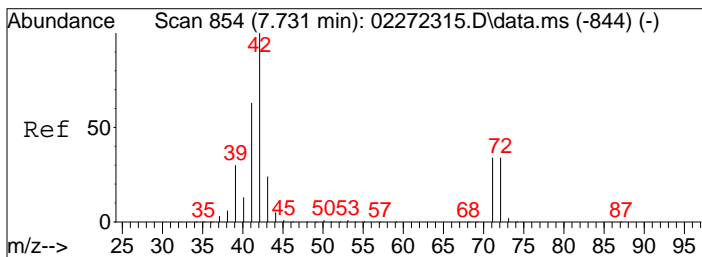
Tgt Ion:	Resp:	Lower	Upper
57	9809		
57	100		
56	54.1	43.3	64.9
86	11.5	10.2	15.2



#32
 Chloroform
 Concen: 0.49 ng
 RT: 7.33 min Scan# 783
 Delta R.T. -0.046 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

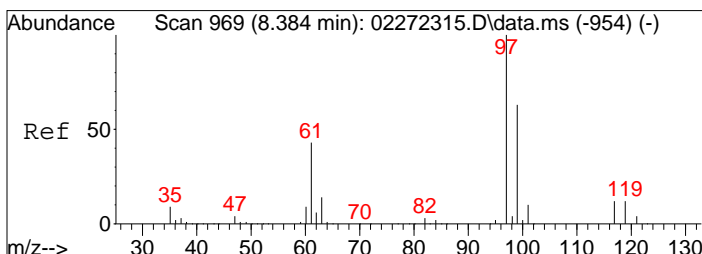
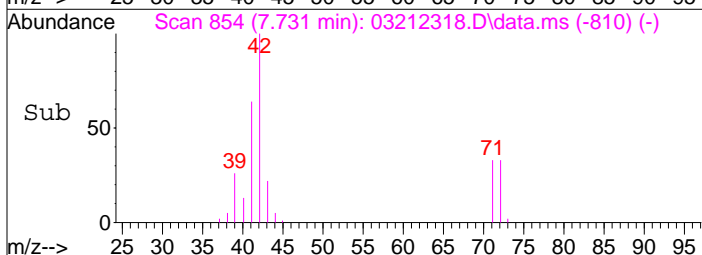
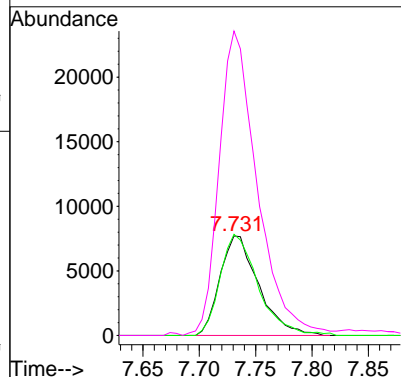
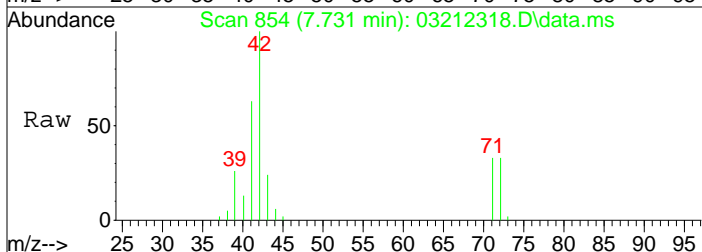
Tgt Ion:	Resp:	Lower	Upper
83	17040		
83	100		
85	63.9	46.3	86.3





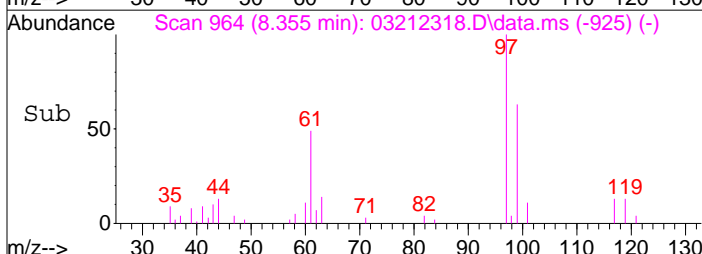
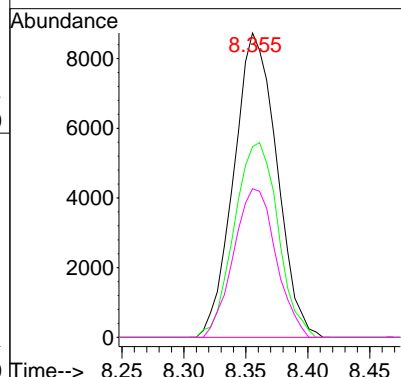
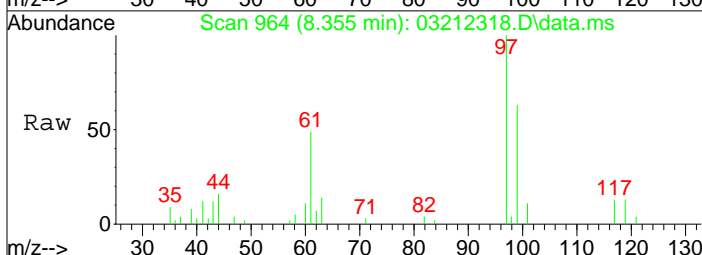
#34
 Tetrahydrofuran (THF)
 Concen: 1.84 ng
 RT: 7.73 min Scan# 854
 Delta R.T. -0.000 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

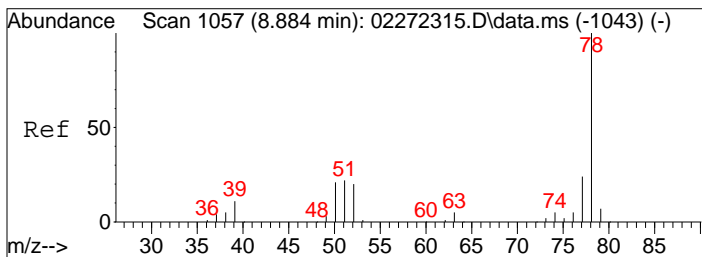
Tgt Ion:	Resp:	Lower	Upper
72	18449		
71	100.2	81.3	121.3
42	301.2	293.7	333.7



#38
 1,1,1-Trichloroethane
 Concen: 0.61 ng
 RT: 8.36 min Scan# 964
 Delta R.T. -0.029 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

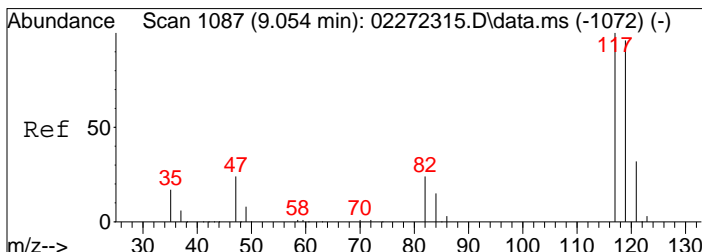
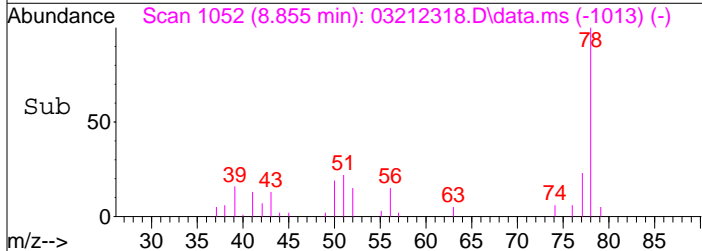
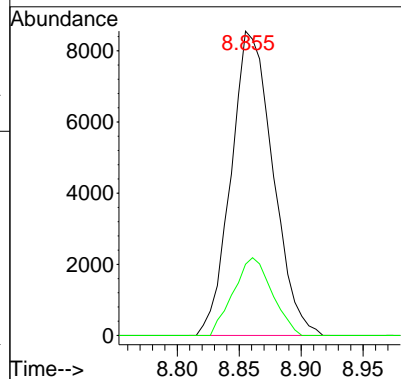
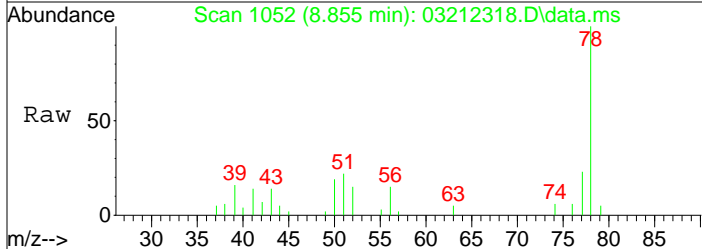
Tgt Ion:	Resp:	Lower	Upper
97	21039		
99	65.1	44.1	84.1
61	48.2	24.0	64.0





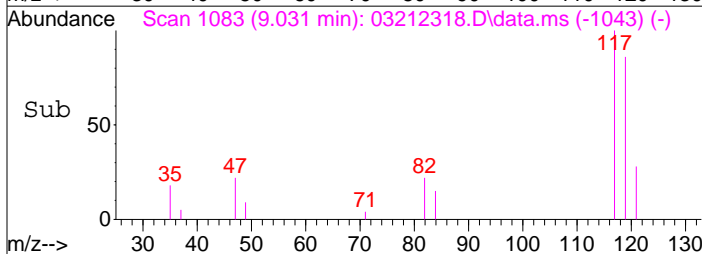
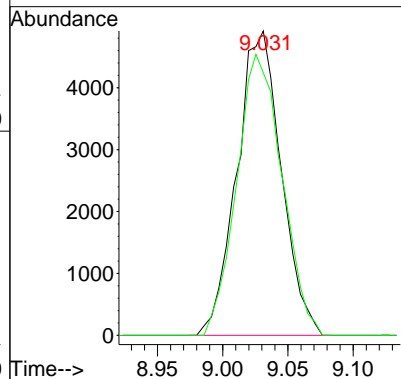
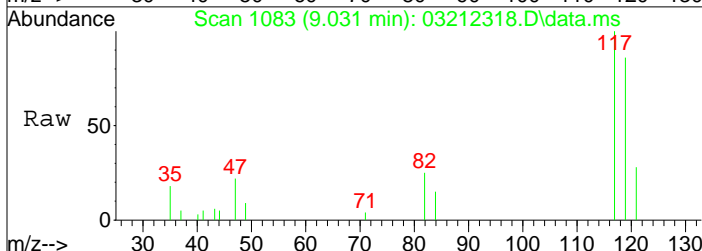
#41
Benzene
Concen: 0.30 ng
RT: 8.86 min Scan# 1052
Delta R.T. -0.029 min
Lab File: 03212318.D
Acq: 21 Mar 2023 15:43

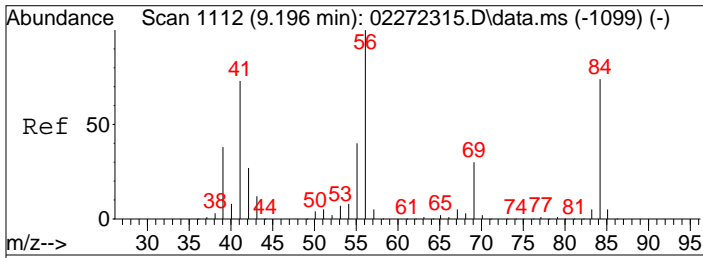
Tgt Ion: 78 Resp: 20066
Ion Ratio Lower Upper
78 100
77 23.6 4.0 44.0



#42
Carbon Tetrachloride
Concen: 0.40 ng
RT: 9.03 min Scan# 1083
Delta R.T. -0.023 min
Lab File: 03212318.D
Acq: 21 Mar 2023 15:43

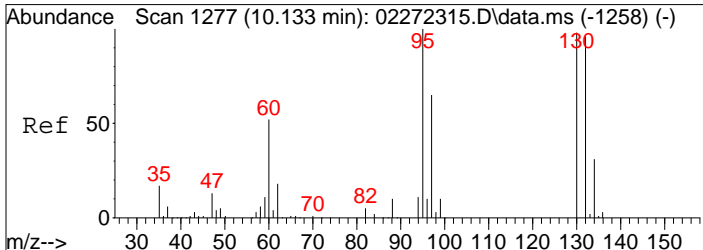
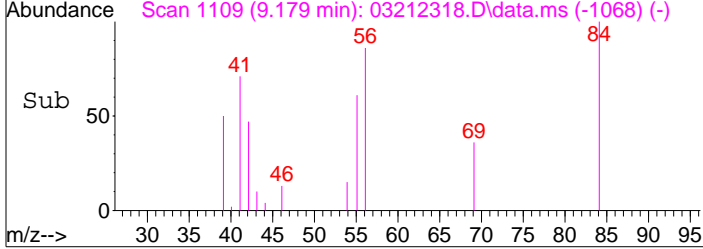
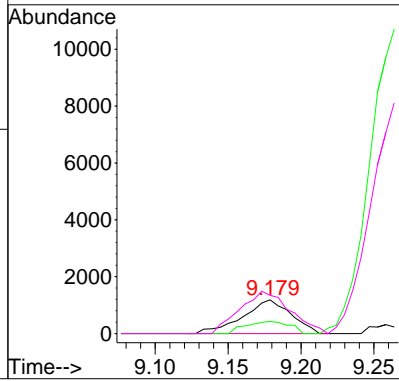
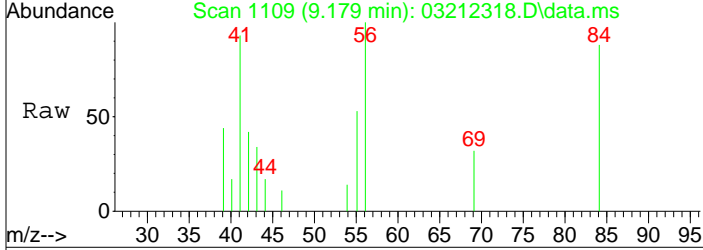
Tgt Ion: 117 Resp: 11619
Ion Ratio Lower Upper
117 100
119 94.5 75.5 115.5





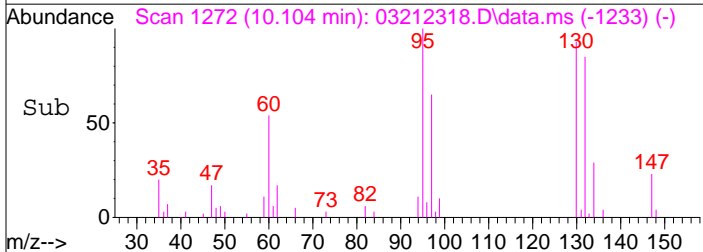
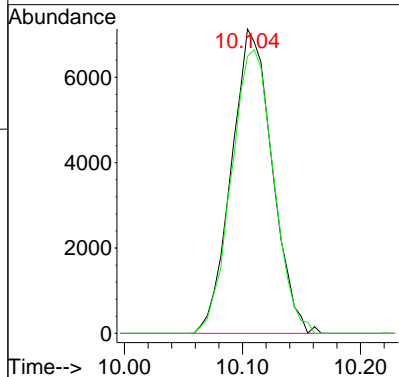
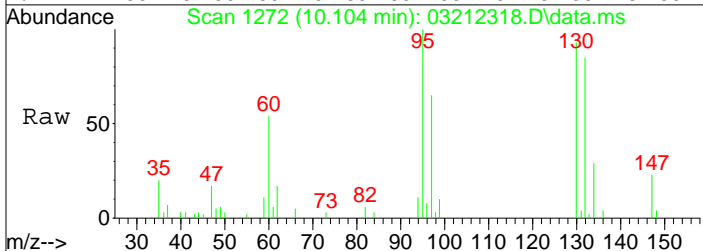
#43
 Cyclohexane
 Concen: 0.11 ng
 RT: 9.18 min Scan# 1109
 Delta R.T. -0.017 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

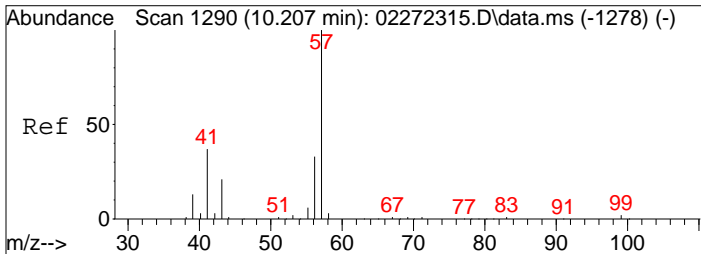
Tgt Ion	Resp	Lower	Upper
84	100		
69	32.7	20.6	60.6
56	130.7	116.1	156.1



#47
 Trichloroethene
 Concen: 0.88 ng
 RT: 10.10 min Scan# 1272
 Delta R.T. -0.029 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

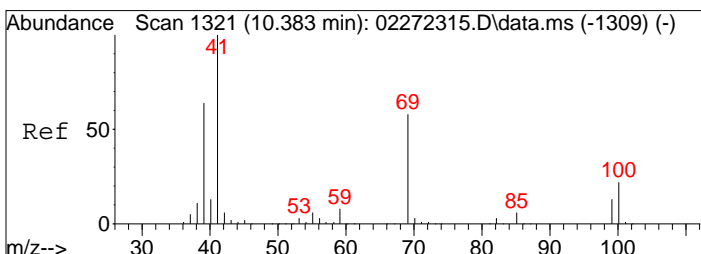
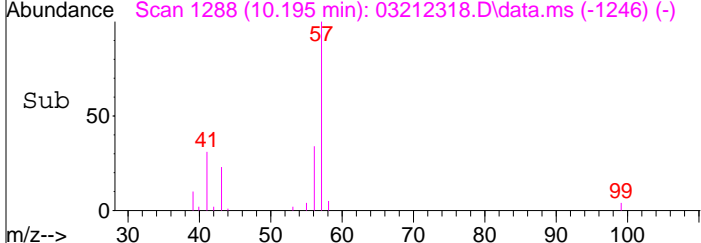
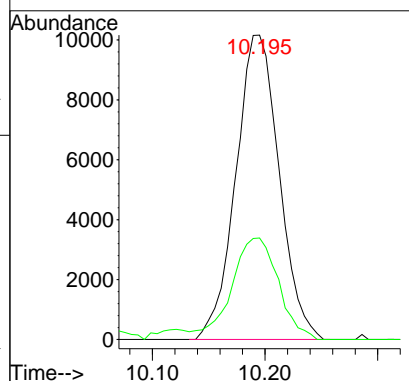
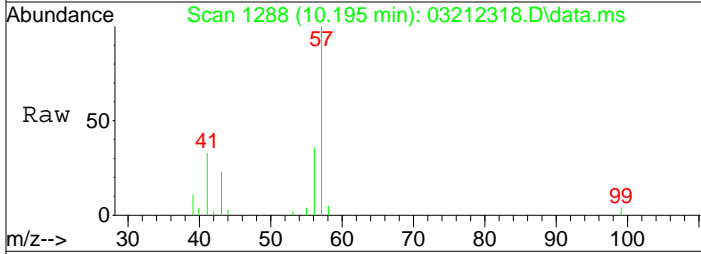
Tgt Ion	Resp	Lower	Upper
130	100		
132	96.2	77.9	117.9





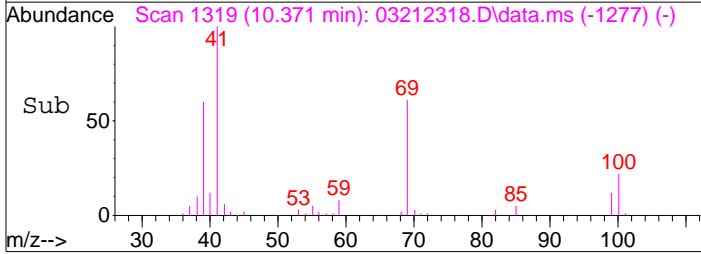
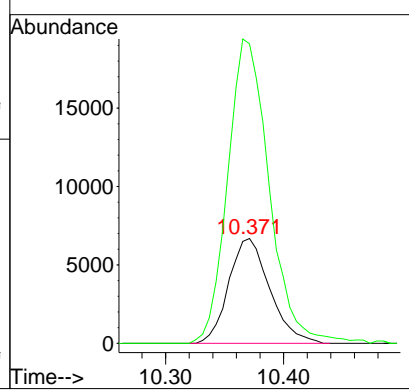
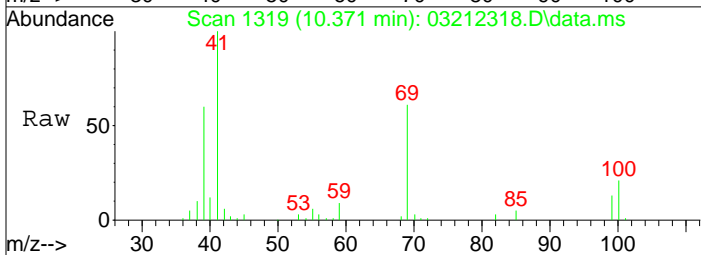
#49
 2,2,4-Trimethylpentane (Isooctane)
 Concen: 0.33 ng
 RT: 10.20 min Scan# 1288
 Delta R.T. -0.011 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

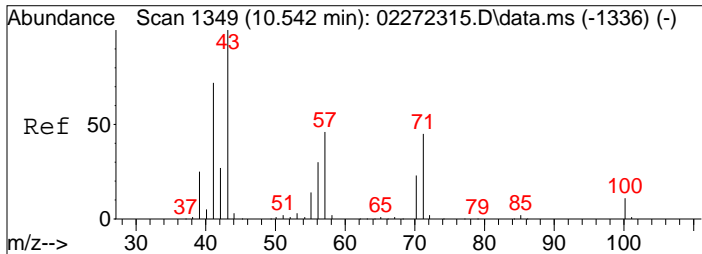
Tgt Ion	Resp	Lower	Upper
57	100		
41	36.1	17.1	57.1



#50
 Methyl Methacrylate
 Concen: 2.57 ng
 RT: 10.37 min Scan# 1319
 Delta R.T. -0.011 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

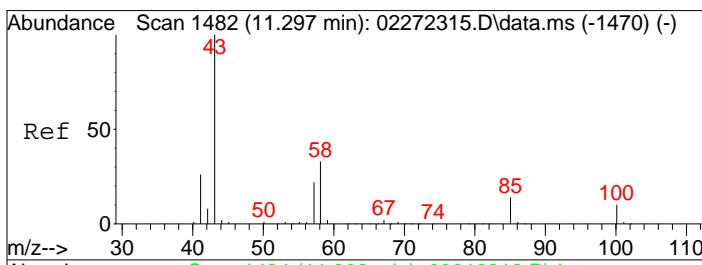
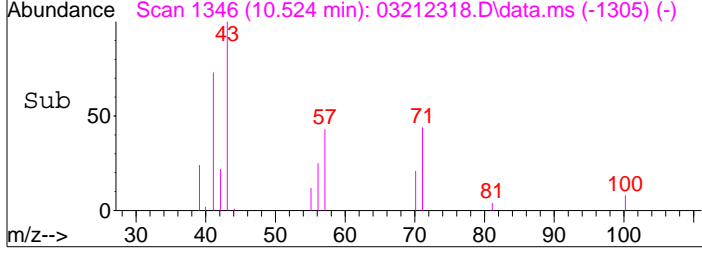
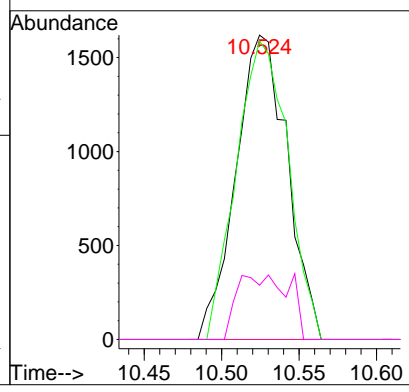
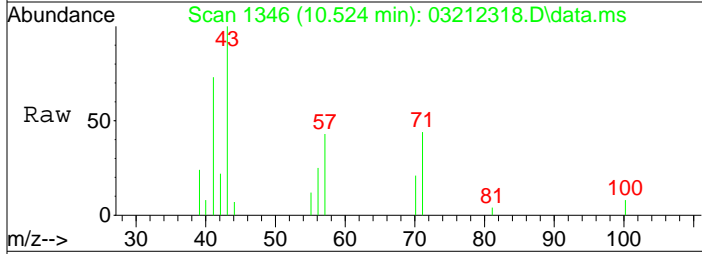
Tgt Ion	Resp	Lower	Upper
100	100		
69	293.5	241.7	281.7#





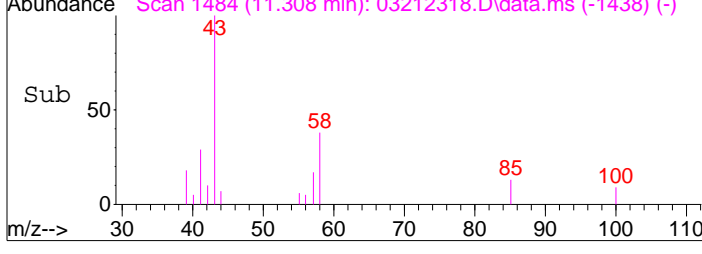
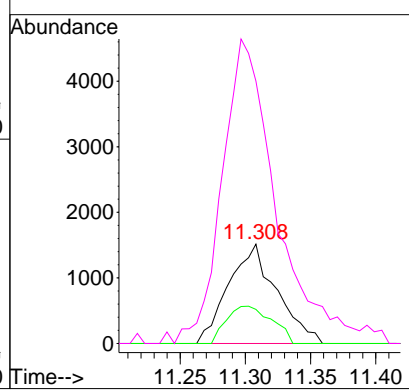
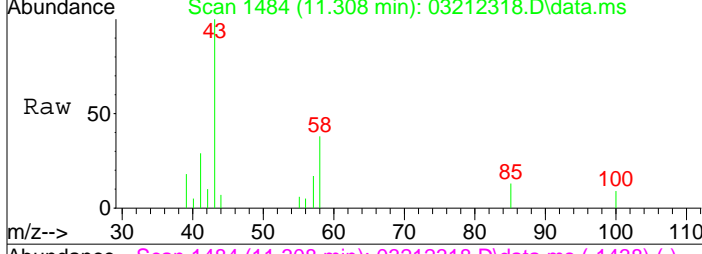
#51
 n-Heptane
 Concen: 0.22 ng
 RT: 10.52 min Scan# 1346
 Delta R.T. -0.017 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

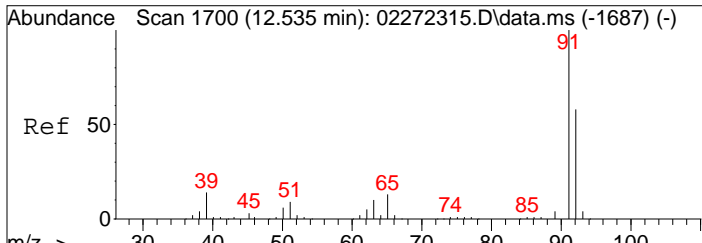
Tgt Ion	Resp	Lower	Upper
71	100		
57	99.0	84.6	124.6
100	21.5	5.8	45.8



#53
 4-Methyl-2-pentanone
 Concen: 0.24 ng
 RT: 11.31 min Scan# 1484
 Delta R.T. 0.011 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

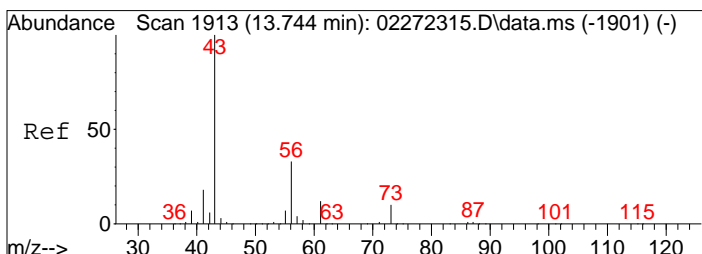
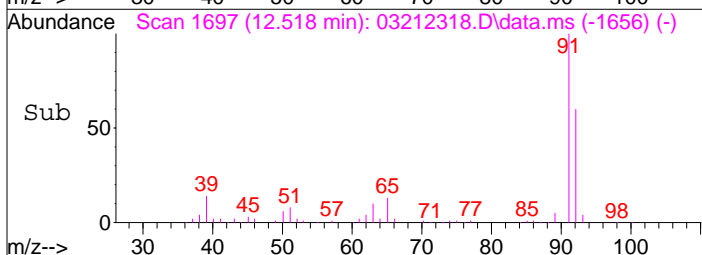
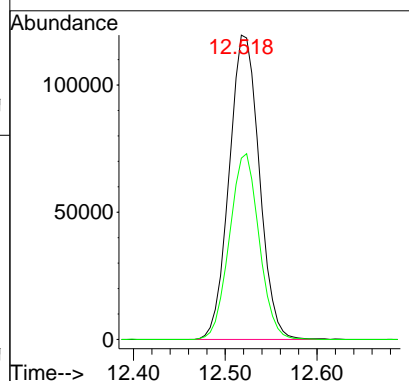
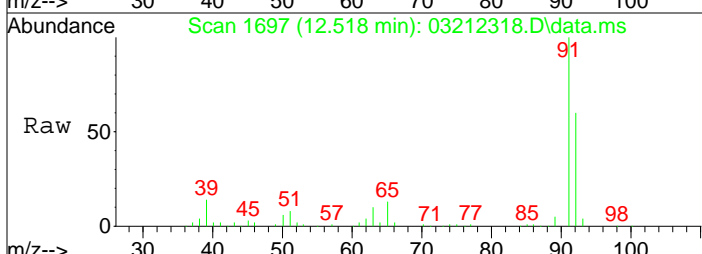
Tgt Ion	Resp	Lower	Upper
58	100		
85	35.3	35.7	53.5#
43	350.2	242.9	364.3





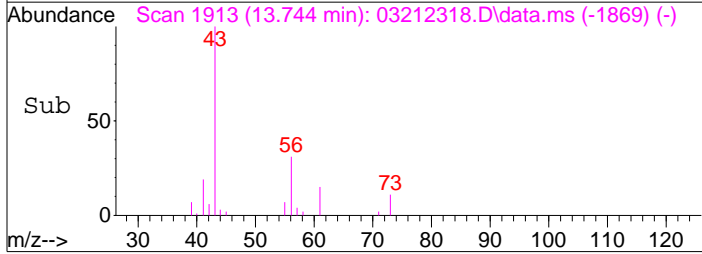
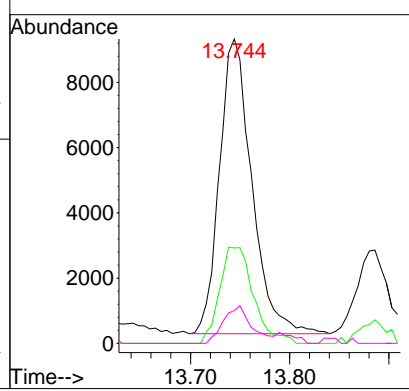
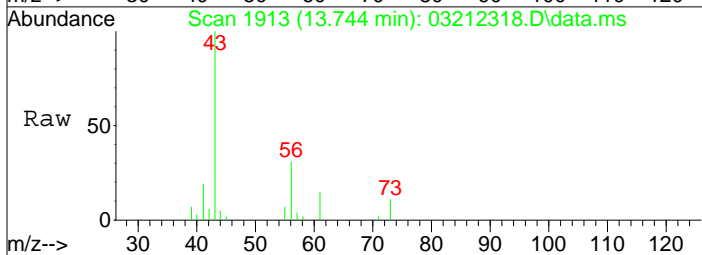
#58
 Toluene
 Concen: 3.81 ng
 RT: 12.52 min Scan# 1697
 Delta R.T. -0.017 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

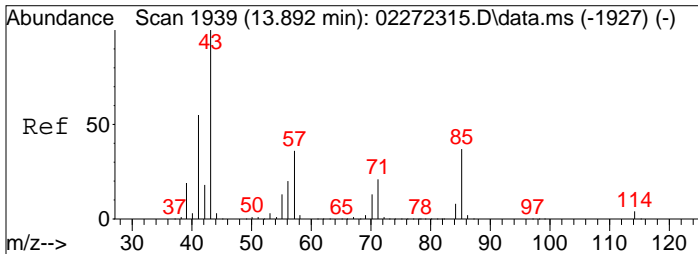
Tgt Ion	Resp	Lower	Upper
91	100		
92	60.1	37.6	77.6



#62
 n-Butyl Acetate
 Concen: 0.41 ng
 RT: 13.74 min Scan# 1913
 Delta R.T. -0.000 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

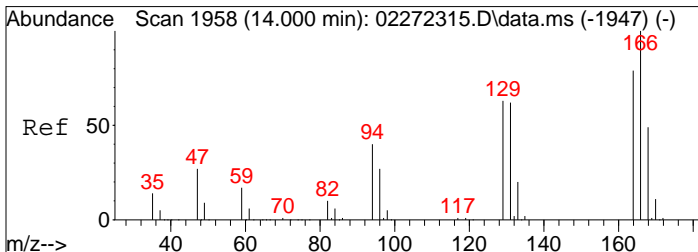
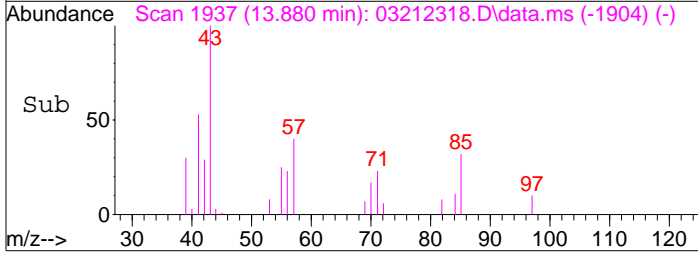
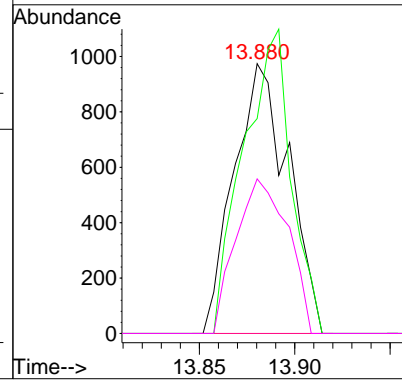
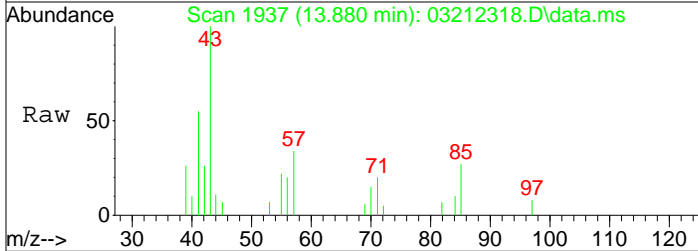
Tgt Ion	Resp	Lower	Upper
43	100		
56	33.9	13.1	53.1
73	11.2	0.0	29.9





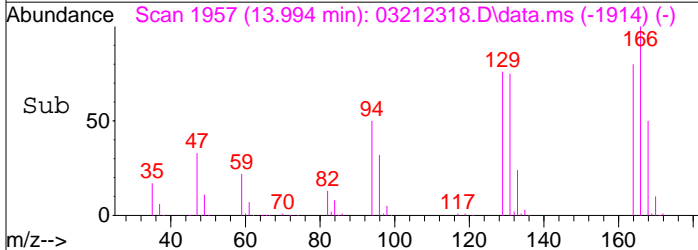
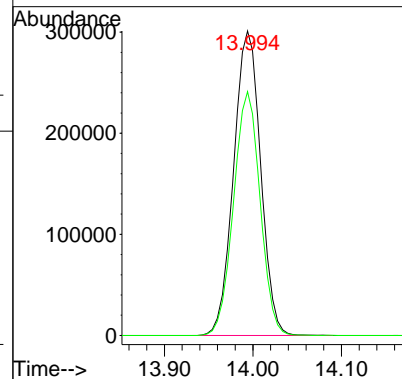
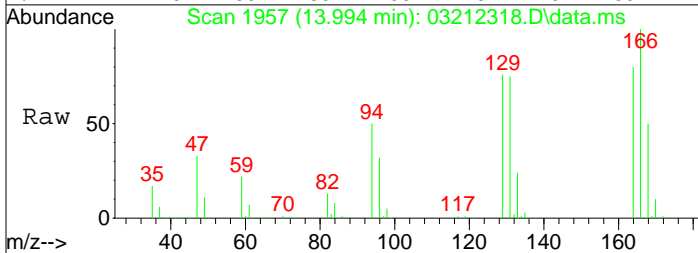
#63
 n-Octane
 Concen: 0.12 ng
 RT: 13.88 min Scan# 1937
 Delta R.T. -0.011 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

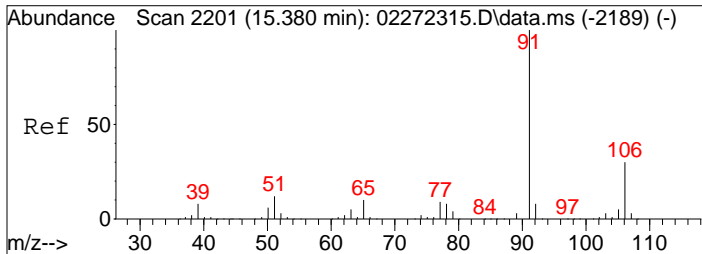
Tgt Ion:	Resp:	Lower	Upper
57	100		
85	99.4	82.4	123.6
71	55.0	47.8	71.6



#64
 Tetrachloroethene
 Concen: 25.85 ng
 RT: 13.99 min Scan# 1957
 Delta R.T. -0.006 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

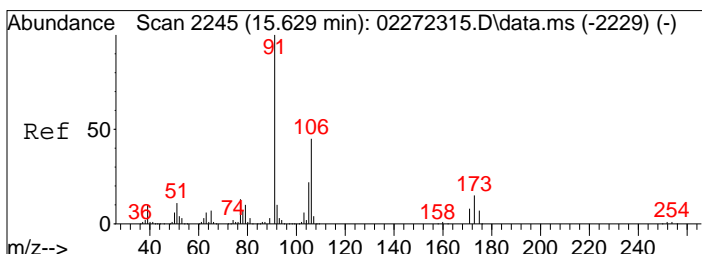
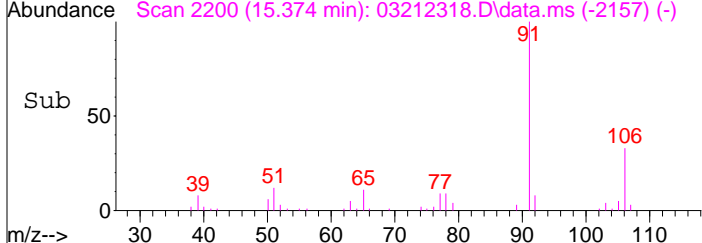
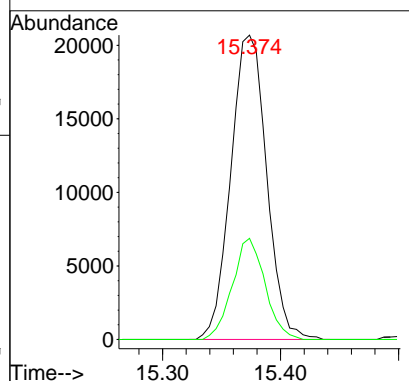
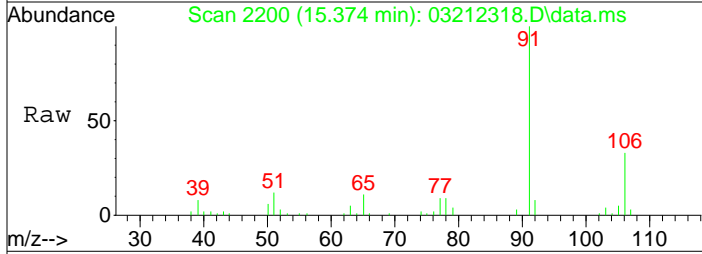
Tgt Ion:	Resp:	Lower	Upper
166	100		
164	78.6	58.6	98.6





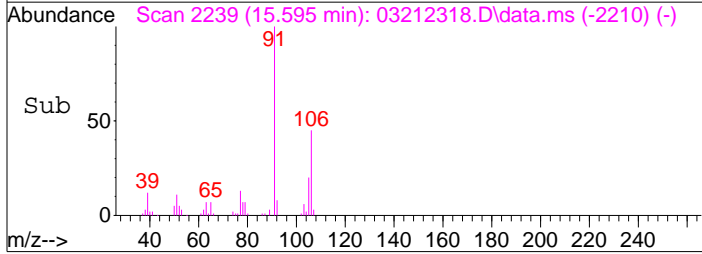
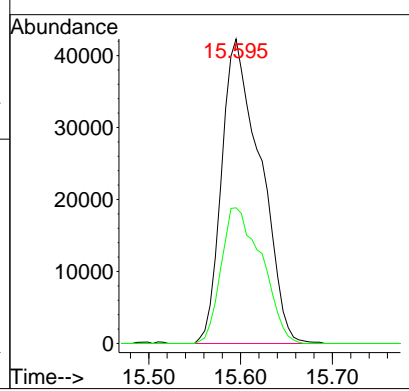
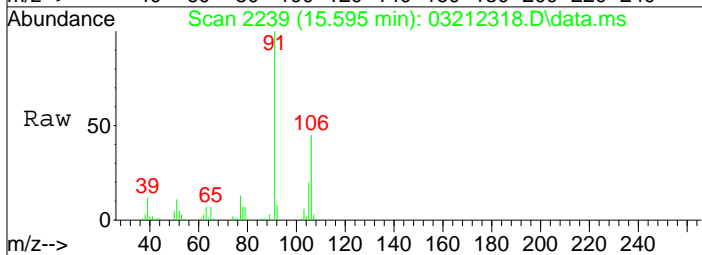
#66
 Ethylbenzene
 Concen: 0.53 ng
 RT: 15.37 min Scan# 2200
 Delta R.T. -0.006 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

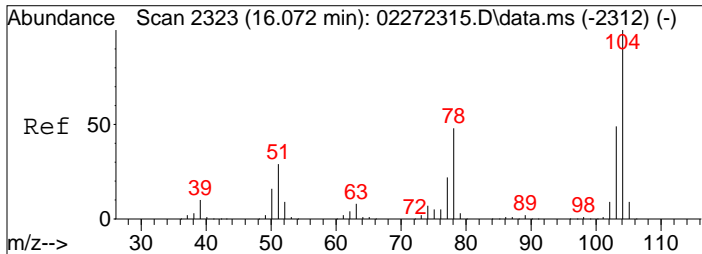
Tgt Ion	Resp	Lower	Upper
91	100		
106	30.2	10.3	50.3



#67
 m- & p-Xylenes
 Concen: 1.84 ng
 RT: 15.60 min Scan# 2239
 Delta R.T. -0.034 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

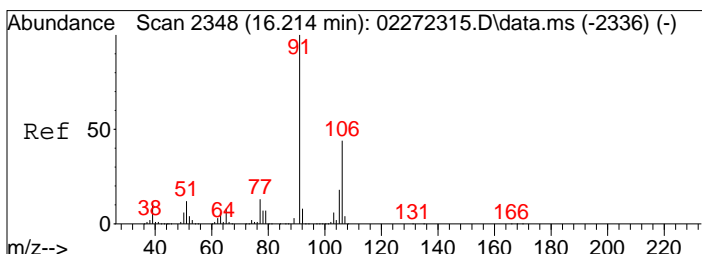
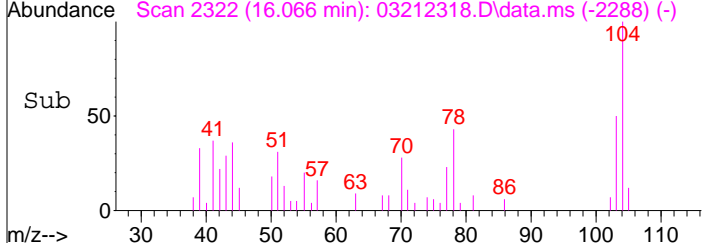
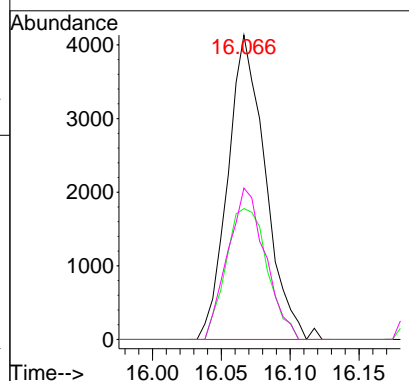
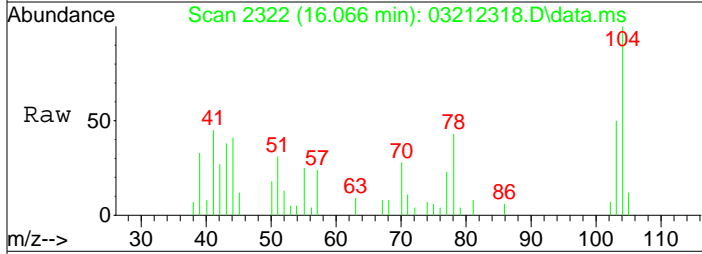
Tgt Ion	Resp	Lower	Upper
91	100		
106	46.7	25.0	65.0





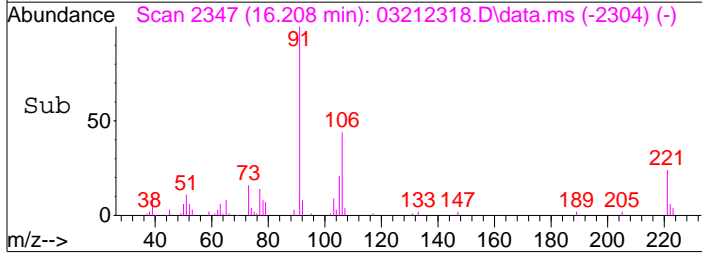
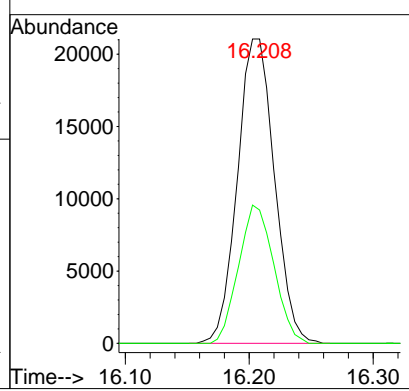
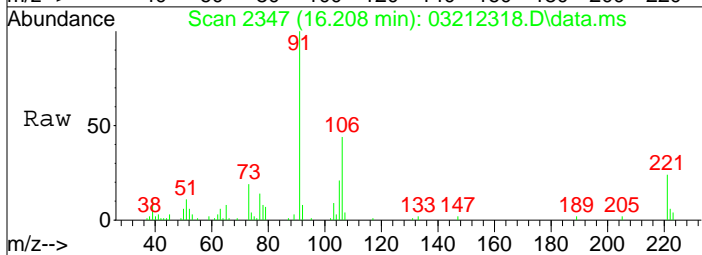
#69
 Styrene
 Concen: 0.18 ng
 RT: 16.07 min Scan# 2322
 Delta R.T. -0.006 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

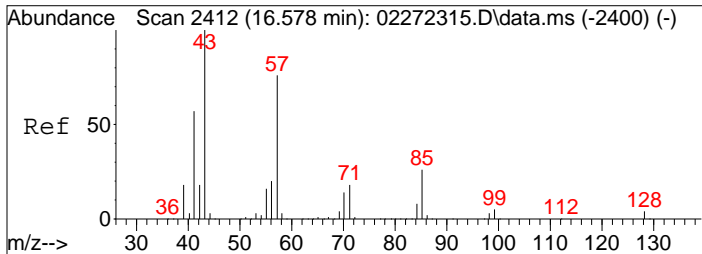
Tgt Ion	Resp	Lower	Upper
104	100		
78	47.6	29.2	69.2
103	49.6	29.2	69.2



#70
 o-Xylene
 Concen: 0.66 ng
 RT: 16.21 min Scan# 2347
 Delta R.T. -0.006 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

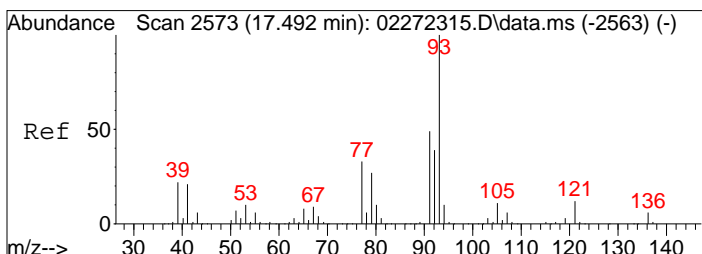
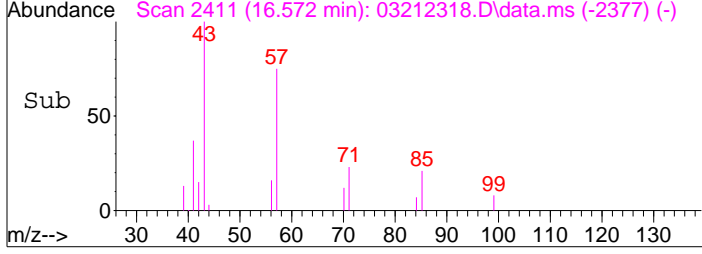
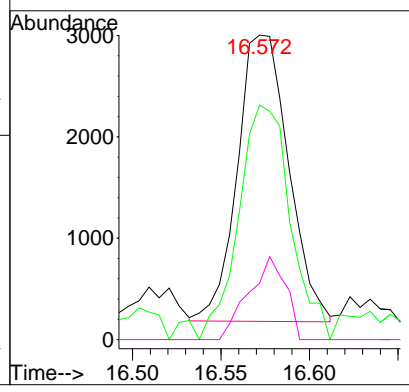
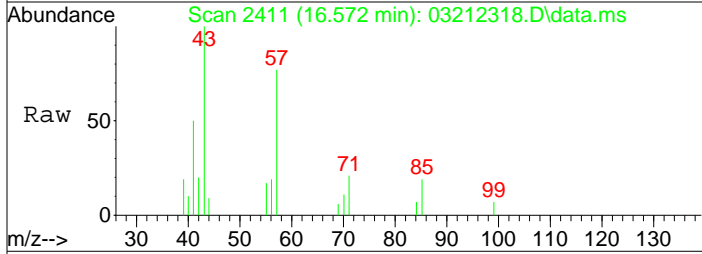
Tgt Ion	Resp	Lower	Upper
91	100		
106	43.2	24.0	64.0





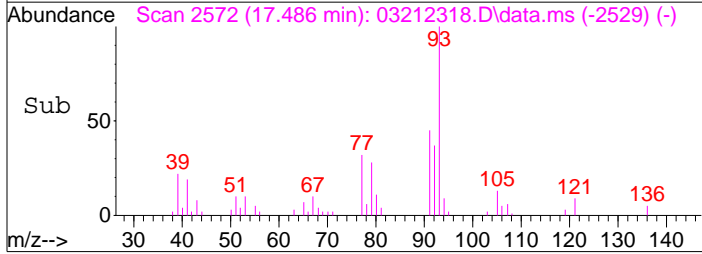
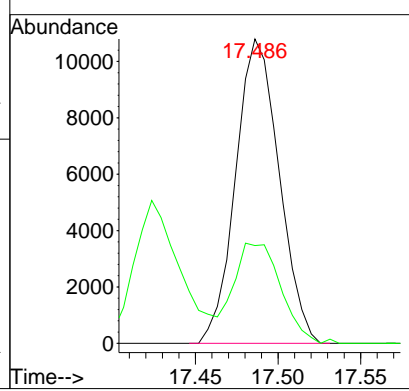
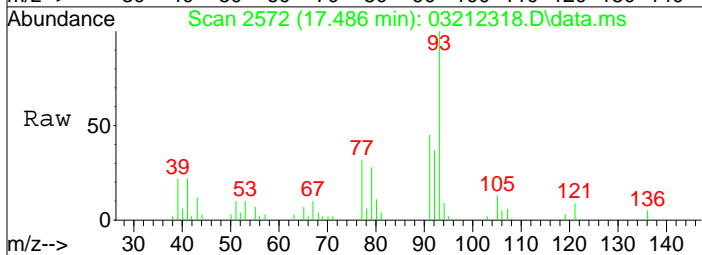
#71
 n-Nonane
 Concen: 0.14 ng
 RT: 16.57 min Scan# 2411
 Delta R.T. -0.006 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

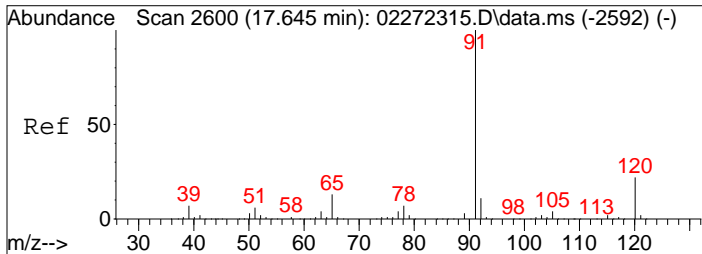
Tgt Ion	Resp	Lower	Upper
43	100		
57	82.5	56.2	96.2
85	20.8	6.1	46.1



#75
 alpha-Pinene
 Concen: 0.57 ng
 RT: 17.49 min Scan# 2572
 Delta R.T. -0.006 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

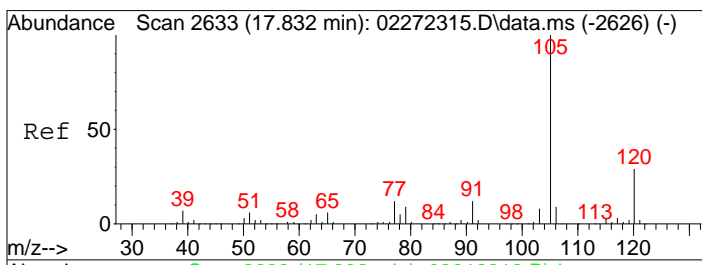
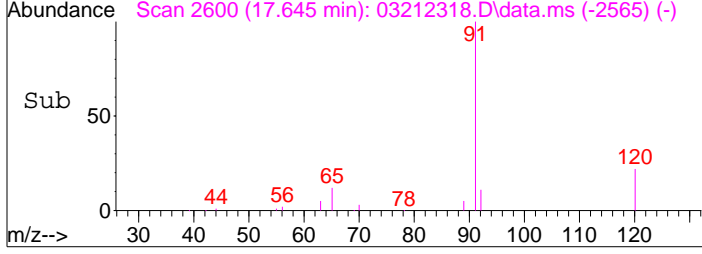
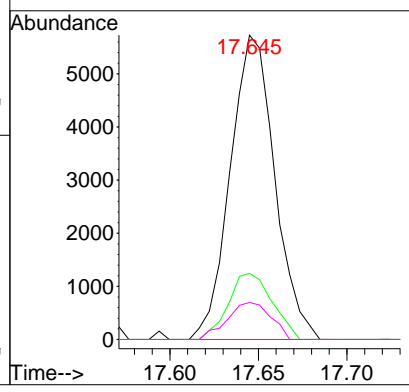
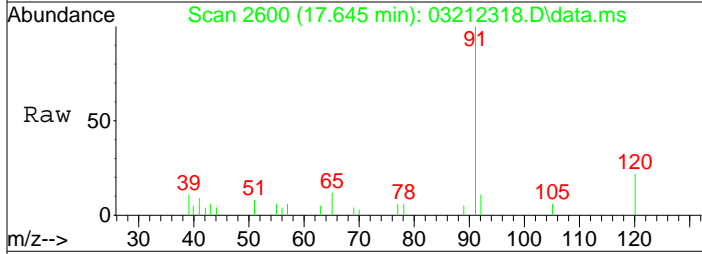
Tgt Ion	Resp	Lower	Upper
93	100		
77	35.6	14.2	54.2





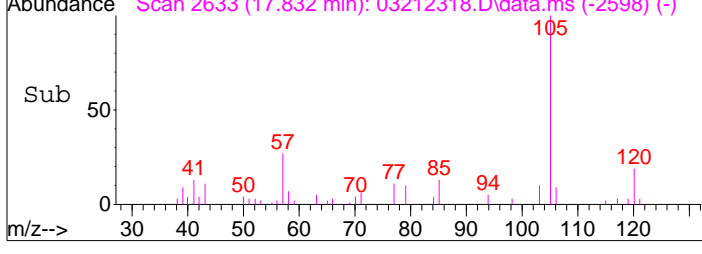
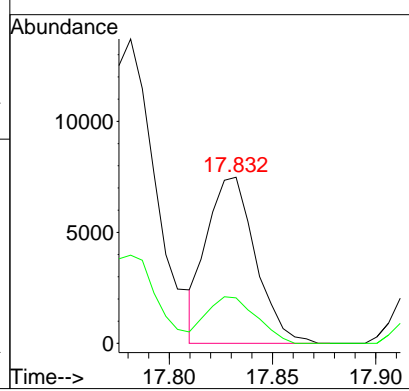
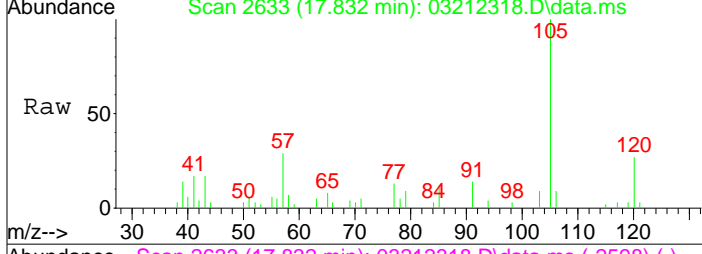
#76
 n-Propylbenzene
 Concen: 0.10 ng
 RT: 17.64 min Scan# 2600
 Delta R.T. -0.000 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

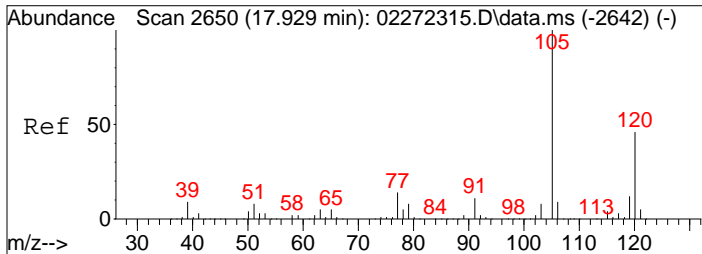
Tgt Ion:	Resp:	Lower	Upper
91	10005		
120	21.5	2.0	42.0
65	12.0	0.0	32.3



#78
 4-Ethyltoluene
 Concen: 0.16 ng
 RT: 17.83 min Scan# 2633
 Delta R.T. -0.000 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

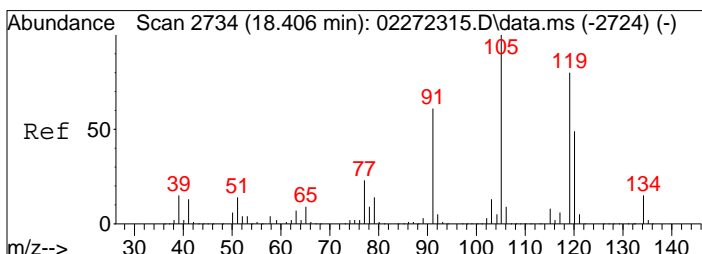
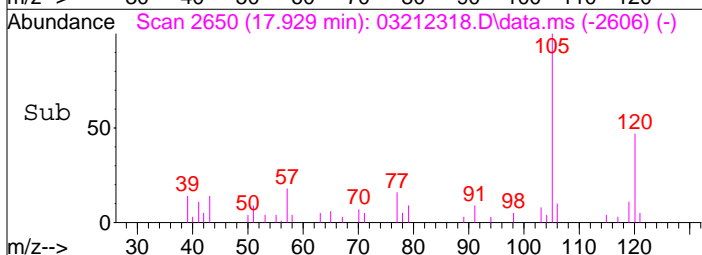
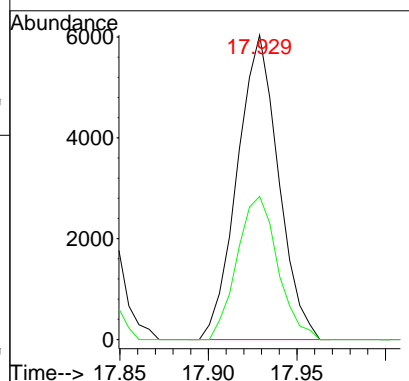
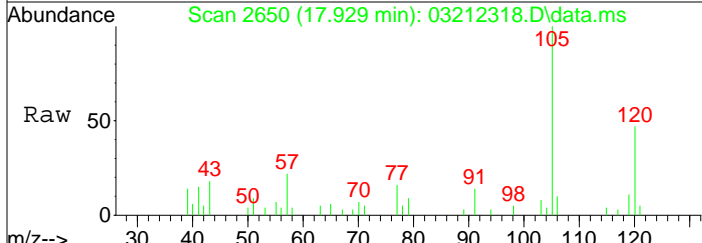
Tgt Ion:	Resp:	Lower	Upper
105	12256		
120	28.9	8.5	48.5





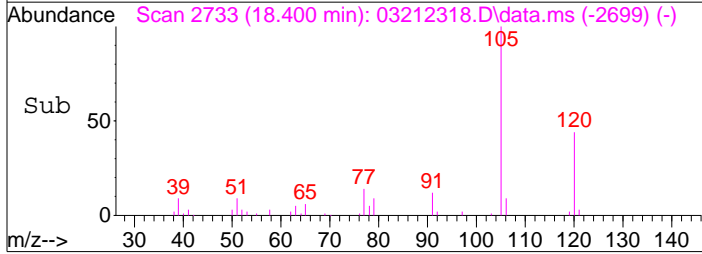
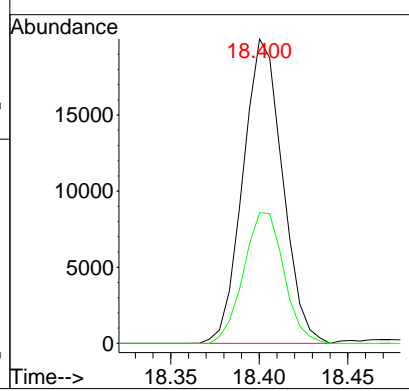
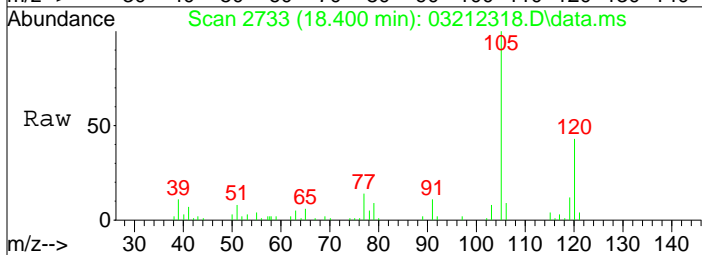
#79
 1,3,5-Trimethylbenzene
 Concen: 0.14 ng
 RT: 17.93 min Scan# 2650
 Delta R.T. -0.000 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

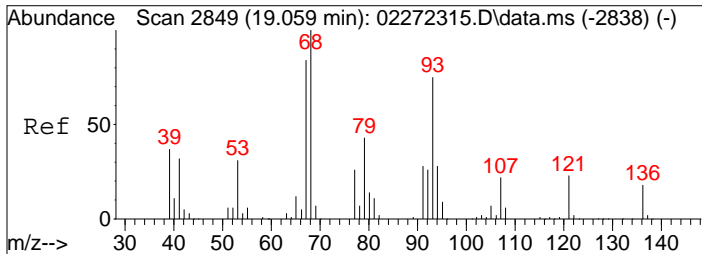
Tgt Ion	Resp	Lower	Upper
105	9774		
120	46.3	25.5	65.5



#82
 1,2,4-Trimethylbenzene
 Concen: 0.44 ng
 RT: 18.40 min Scan# 2733
 Delta R.T. -0.006 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

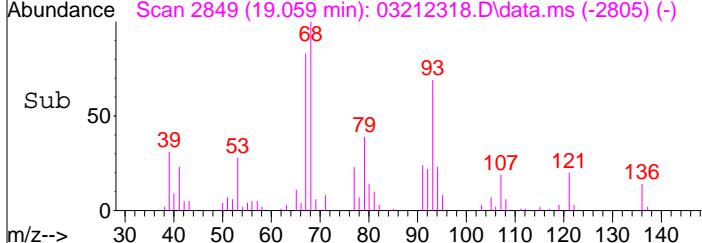
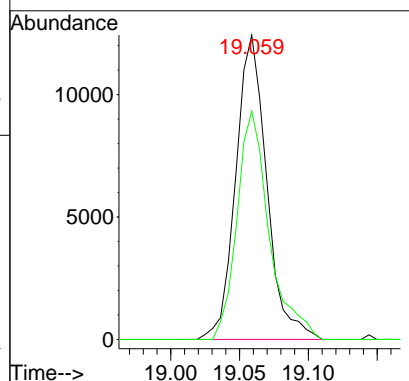
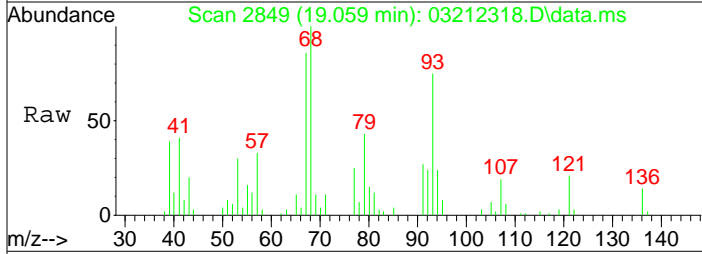
Tgt Ion	Resp	Lower	Upper
105	31041		
120	43.7	30.5	70.5





#91
 d-Limonene
 Concen: 0.82 ng
 RT: 19.06 min Scan# 2849
 Delta R.T. -0.000 min
 Lab File: 03212318.D
 Acq: 21 Mar 2023 15:43

Tgt Ion	Resp	Lower	Upper
68	19476		
68	100		
93	77.7	55.7	95.7



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: New York State DEC
Client Sample ID: Building-2-IA-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-007

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC02178

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 0.30 Liter(s)

Initial Pressure (psig): 0.0 Final Pressure (psig): 3.86

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	20	2.2	12	1.3	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	2.2	0.48	0.45	
74-87-3	Chloromethane	1.5	0.88	0.75	0.43	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.2	ND	0.31	
75-01-4	Vinyl Chloride	ND	0.46	ND	0.18	
106-99-0	1,3-Butadiene	ND	0.88	ND	0.40	
74-83-9	Bromomethane	ND	0.88	ND	0.23	
75-00-3	Chloroethane	ND	0.88	ND	0.33	
64-17-5	Ethanol	350	21	190	11	
75-05-8	Acetonitrile	ND	4.2	ND	2.5	
107-02-8	Acrolein	ND	4.2	ND	1.8	
67-64-1	Acetone	230	22	97	9.3	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	2.2	ND	0.39	
67-63-0	2-Propanol (Isopropyl Alcohol)	140	4.3	58	1.8	
107-13-1	Acrylonitrile	ND	4.2	ND	1.9	
75-35-4	1,1-Dichloroethene	ND	0.46	ND	0.12	
75-09-2	Methylene Chloride	28	2.2	8.0	0.64	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.2	ND	0.71	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	2.3	ND	0.30	
75-15-0	Carbon Disulfide	ND	4.5	ND	1.4	
156-60-5	trans-1,2-Dichloroethene	ND	0.46	ND	0.12	
75-34-3	1,1-Dichloroethane	ND	0.46	ND	0.11	
1634-04-4	Methyl tert-Butyl Ether	ND	2.3	ND	0.63	
108-05-4	Vinyl Acetate	ND	21	ND	6.0	
78-93-3	2-Butanone (MEK)	45	4.4	15	1.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3

Client: New York State DEC
Client Sample ID: Building-2-IA-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-007

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC02178

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 0.30 Liter(s)

Initial Pressure (psig): 0.0 Final Pressure (psig): 3.86

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.46	ND	0.12	
141-78-6	Ethyl Acetate	570	8.8	160	2.4	
110-54-3	n-Hexane	29	2.2	8.1	0.63	
67-66-3	Chloroform	3.3	0.46	0.68	0.095	
109-99-9	Tetrahydrofuran (THF)	43	2.1	15	0.71	
107-06-2	1,2-Dichloroethane	7.6	0.46	1.9	0.11	
71-55-6	1,1,1-Trichloroethane	ND	0.46	ND	0.085	
71-43-2	Benzene	16	0.46	5.0	0.14	
56-23-5	Carbon Tetrachloride	ND	0.46	ND	0.073	
110-82-7	Cyclohexane	27	4.4	7.9	1.3	
78-87-5	1,2-Dichloropropane	24	0.46	5.1	0.10	
75-27-4	Bromodichloromethane	ND	0.46	ND	0.069	
79-01-6	Trichloroethene	ND	0.46	ND	0.086	
123-91-1	1,4-Dioxane	ND	2.2	ND	0.62	
80-62-6	Methyl Methacrylate	11	4.6	2.8	1.1	
142-82-5	n-Heptane	17	2.2	4.1	0.54	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	ND	0.50	
108-10-1	4-Methyl-2-pentanone	6.9	4.6	1.7	1.1	
10061-02-6	trans-1,3-Dichloropropene	ND	2.1	ND	0.47	
79-00-5	1,1,2-Trichloroethane	ND	0.46	ND	0.085	
108-88-3	Toluene	430	2.2	110	0.59	
591-78-6	2-Hexanone	ND	4.6	ND	1.1	
124-48-1	Dibromochloromethane	ND	0.46	ND	0.054	
106-93-4	1,2-Dibromoethane	ND	0.46	ND	0.060	
123-86-4	n-Butyl Acetate	11	4.2	2.4	0.88	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3 of 3

Client: New York State DEC
Client Sample ID: Building-2-IA-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-007

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC02178

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 0.30 Liter(s)

Initial Pressure (psig): 0.0 Final Pressure (psig): 3.86

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	5.4	2.3	1.2	0.49	
127-18-4	Tetrachloroethene	1.5	0.46	0.22	0.068	
108-90-7	Chlorobenzene	ND	2.2	ND	0.48	
100-41-4	Ethylbenzene	35	2.2	8.1	0.51	
179601-23-1	m,p-Xylenes	93	4.6	22	1.1	
75-25-2	Bromoform	ND	2.3	ND	0.22	
100-42-5	Styrene	12	2.2	2.9	0.52	
95-47-6	o-Xylene	38	2.2	8.7	0.51	
111-84-2	n-Nonane	2.5	2.2	0.47	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.46	ND	0.067	
98-82-8	Cumene	ND	2.3	ND	0.46	
80-56-8	alpha-Pinene	17	4.6	3.0	0.83	
103-65-1	n-Propylbenzene	2.4	2.3	0.49	0.46	
622-96-8	4-Ethyltoluene	3.5	2.3	0.71	0.47	
108-67-8	1,3,5-Trimethylbenzene	2.9	2.2	0.59	0.45	
95-63-6	1,2,4-Trimethylbenzene	11	2.2	2.2	0.45	
100-44-7	Benzyl Chloride	ND	8.9	ND	1.7	
541-73-1	1,3-Dichlorobenzene	ND	2.2	ND	0.37	
106-46-7	1,4-Dichlorobenzene	ND	2.2	ND	0.37	
95-50-1	1,2-Dichlorobenzene	ND	2.3	ND	0.38	
5989-27-5	d-Limonene	57	4.6	10	0.83	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.6	ND	0.48	
120-82-1	1,2,4-Trichlorobenzene	ND	4.6	ND	0.62	
91-20-3	Naphthalene	ND	2.3	ND	0.44	
87-68-3	Hexachlorobutadiene	ND	2.2	ND	0.21	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Data File : I:\MS09\DATA\2023 03\21\03212314.D
 Acq On : 21 Mar 2023 12:21
 Sample : P2301184-007 (300ml)
 Misc : S35-02212305

Vial: 10
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 21 21:24:19 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

WA 3/21/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	7.23	130	168754	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	9.29	114	767233	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	14.81	54	174391	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.99	65	368065	12.883	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	103.04%	
57) Toluene-d8 (SS2)	12.40	98	908771	13.714	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	109.68%	
73) Bromofluorobenzene (SS3)	16.79	174	279740	10.353	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	82.80%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.26	42	108050m	4.814	ng	
3) Dichlorodifluoromethan...	3.34	85	21868	0.561	ng	99
4) Chloromethane	3.47	50	8995	0.368	ng	93
5) 1,2-Dichloro-1,1,2,2-t...	3.58	135	296	N.D.		
6) Vinyl Chloride	3.67	62	361	N.D.		
7) 1,3-Butadiene	3.78	54	656	N.D.		
8) Bromomethane	4.00	94	832	N.D.		
9) Chloroethane	4.14	64	109	N.D.		
10) Ethanol	4.31	45	1341767	83.787	ng	99
11) Acetonitrile	0.00	41	0	N.D.		
12) Acrolein	4.52	56	4483	0.420	ng	93
13) Acetone	4.61	58	668190	55.062	ng	# 1
14) Trichlorofluoromethane	4.74	101	10650	0.274	ng	99
15) 2-Propanol (Isopropanol)	4.86	45	1595887	33.684	ng	95
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	5.35	84	106339	6.639	ng	99
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	5.56	151	1615	0.092	ng	# 79
22) Carbon Disulfide	5.59	76	56804	0.974	ng	97
23) trans-1,2-Dichloroethene	6.12	61	133	N.D.		
24) 1,1-Dichloroethane	6.36	63	1572	N.D.		
25) Methyl tert-Butyl Ether	6.36	73	1983	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	6.65	72	103797	10.731	ng	# 86
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	7.27	61	1008313	135.587	ng	100
31) n-Hexane	7.28	57	209559	6.787	ng	99
32) Chloroform	7.36	83	26771	0.790	ng	98
34) Tetrahydrofuran (THF)	7.72	72	99720	10.294	ng	97
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.11	62	53538	1.817	ng	97
38) 1,1,1-Trichloroethane	8.38	97	2413	N.D.		
39) Isopropyl Acetate	9.29	61	25646	No Calib	#	
40) 1-Butanol	8.79	56	48080	No Calib	#	
41) Benzene	8.87	78	247066	3.773	ng	99
42) Carbon Tetrachloride	9.04	117	2907	0.101	ng	99
43) Cyclohexane	9.19	84	158595	6.511	ng	97
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	9.83	63	103907	5.631	ng	96
46) Bromodichloromethane	0.00	83	0	N.D.	d	
47) Trichloroethene	10.12	130	1129	N.D.		
48) 1,4-Dioxane	10.13	88	765	N.D.		
49) 2,2,4-Trimethylpentane...	10.20	57	491810	6.142	ng	97
50) Methyl Methacrylate	10.38	100	16909	2.736	ng	# 66

Data File : I:\MS09\DATA\2023 03\21\03212314.D
 Acq On : 21 Mar 2023 12:21
 Sample : P2301184-007 (300ml)
 Misc : S35-02212305

Vial: 10
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 21 21:24:19 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

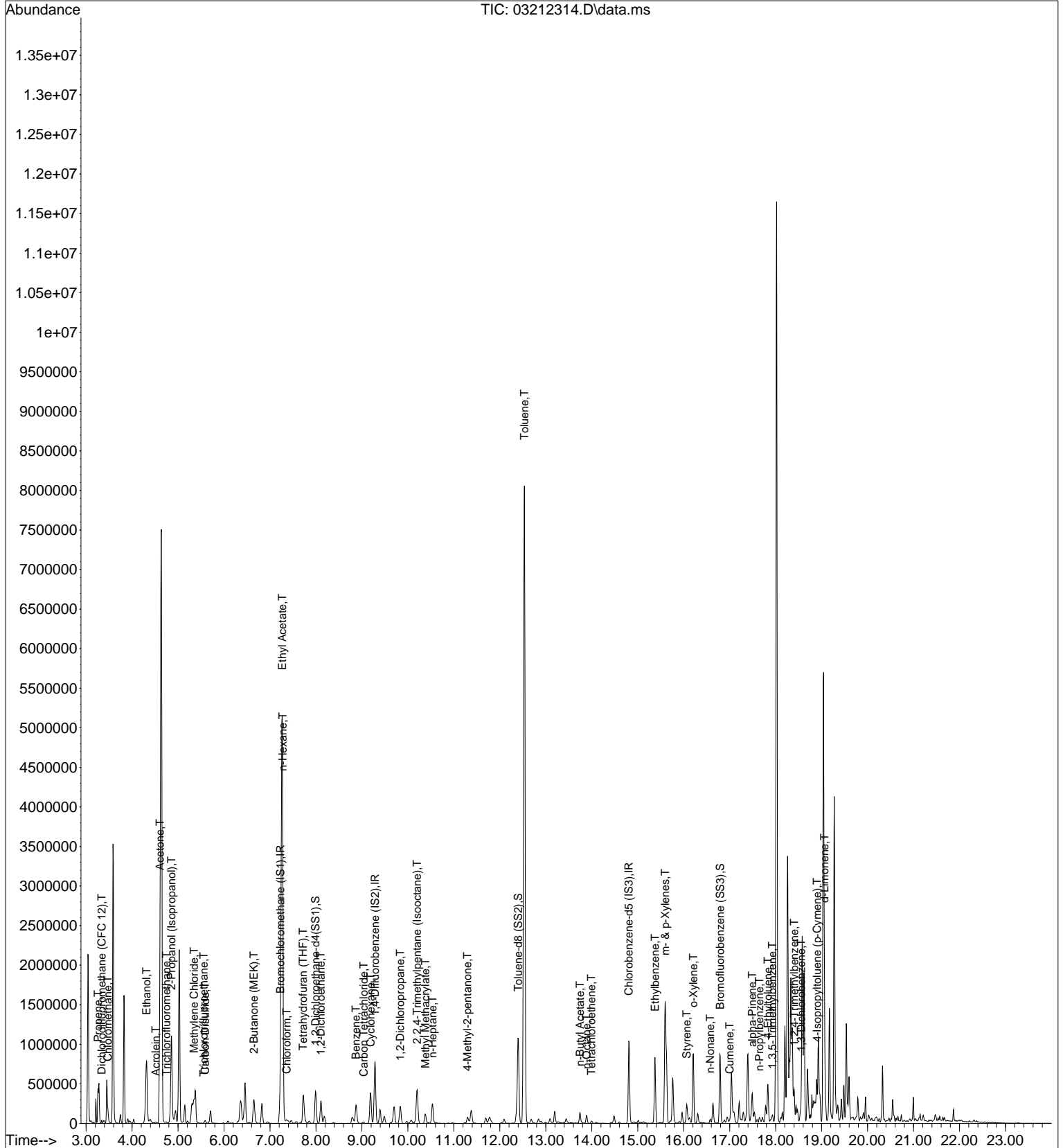
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.54	71	65404	4.010	ng	97
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.30	58	26391	1.646	ng	84
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.53	91	7176577	101.720	ng	96
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	13.74	43	133449	2.705	ng	96
63) n-Octane	13.89	57	19741	1.282	ng	94
64) Tetrachloroethene	13.99	166	8590	0.353	ng	99
65) Chlorobenzene	14.86	112	1415	N.D.		
66) Ethylbenzene	15.37	91	679546	8.398	ng	100
67) m- & p-Xylenes	15.60	91	1476565	22.235	ng	97
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.07	104	121524	2.902	ng	98
70) o-Xylene	16.21	91	586648	8.965	ng	99
71) n-Nonane	16.58	43	24385	0.590	ng	97
72) 1,1,2,2-Tetrachloroethane	16.19	83	476	N.D.		
74) Cumene	17.00	105	26209	0.325	ng	100
75) alpha-Pinene	17.49	93	135442	3.984	ng	100
76) n-Propylbenzene	17.64	91	55489	0.575	ng	99
77) 3-Ethyltoluene	17.00	105	26209	No Calib		
78) 4-Ethyltoluene	17.83	105	63240	0.829	ng	98
79) 1,3,5-Trimethylbenzene	17.93	105	47064	0.687	ng	98
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.00	105	26209	No Calib		
82) 1,2,4-Trimethylbenzene	18.41	105	178061	2.559	ng	90
83) n-Decane	17.04	58	23098	No Calib	#	
84) Benzyl Chloride	18.58	91	1184	N.D.		
85) 1,3-Dichlorobenzene	18.55	146	9517	0.236	ng	99
86) 1,4-Dichlorobenzene	18.63	146	1050	N.D.		
87) sec-Butylbenzene	18.72	105	4080	N.D.		
88) 4-Isopropyltoluene (p-...	18.90	119	56229	0.710	ng	85
89) 1,2,3-Trimethylbenzene	17.00	105	26209	No Calib		
90) 1,2-Dichlorobenzene	19.01	146	210	N.D.		
91) d-Limonene	19.06	68	313922	13.468	ng	96
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.15	58	1597	No Calib	#	
94) 1,2,4-Trichlorobenzene	20.81	180	393	N.D.		
95) Naphthalene	20.92	128	3616	N.D.		
96) n-Dodecane	19.04	58	150080	No Calib	#	
97) Hexachlorobutadiene	21.27	225	127	N.D.		
98) Cyclohexanone	15.19	55	590	No Calib	#	
99) tert-Butylbenzene	18.47	119	3140	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:\MS09\DATA\2023 03\21\03212314.D
Acq On : 21 Mar 2023 12:21
Sample : P2301184-007 (300ml)
Misc : S35-02212305

Vial: 10
Operator: WA/SR
Inst : MS09

Quant Time: Mar 21 21:24:19 2023
Quant Method : I:\MS09\METHODS\R9022723.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Feb 28 08:30:18 2023
Response via : Initial Calibration
DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2023 03\21\03212314.D
 Acq On : 21 Mar 2023 12:21
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 Response via : Initial Calibration
 DataAcq Meth:TO15.M

WA 3/21/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	7.23	130	168754	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	9.29	114	767233	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	14.81	54	174391	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.99	65	368065	12.883	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery =	103.04%		
57) Toluene-d8 (SS2)	12.40	98	908771	13.714	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery =	109.68%		
73) Bromofluorobenzene (SS3)	16.79	174	279740	10.353	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery =	82.80%		

Target Compounds

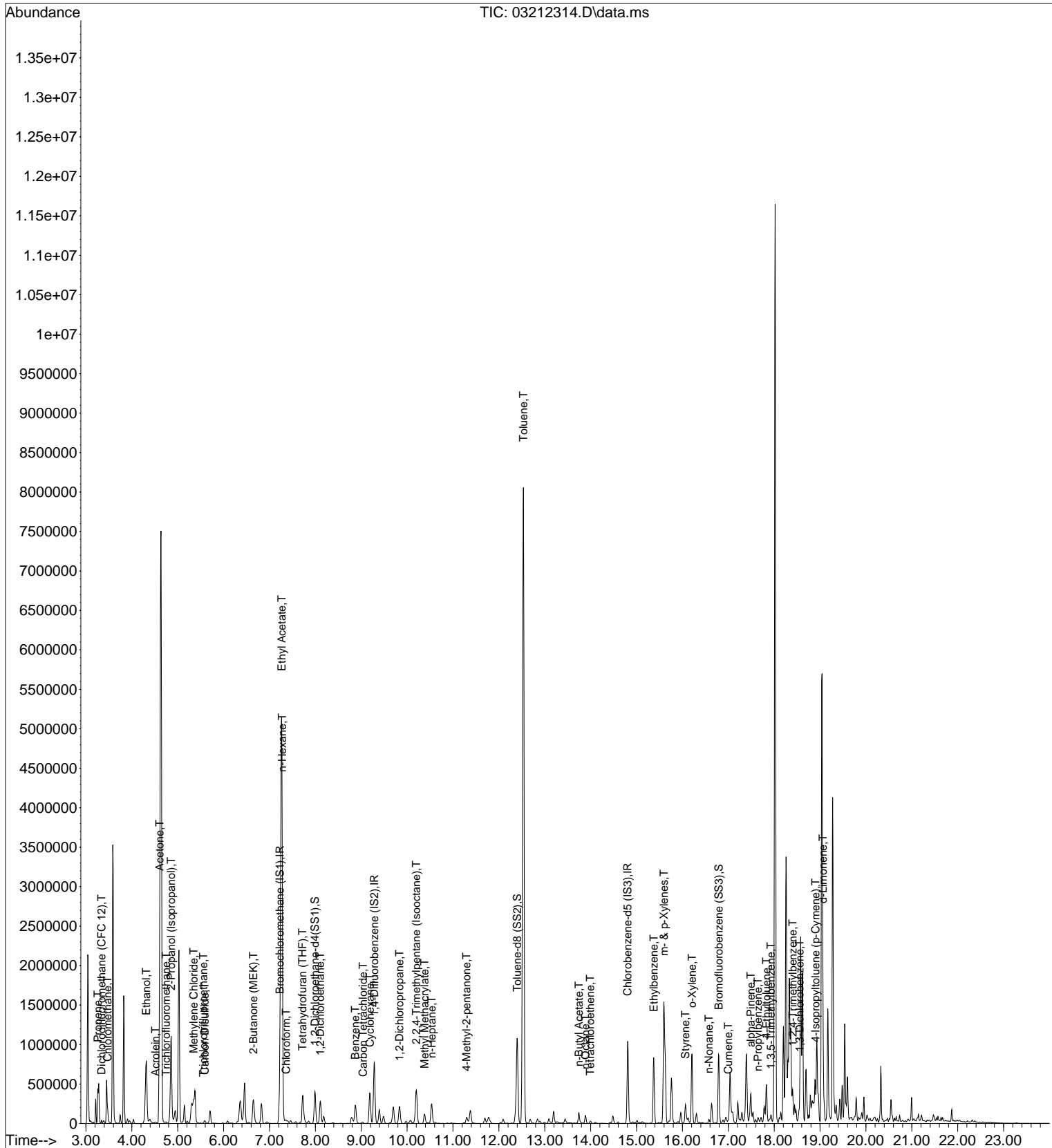
						Qvalue
2) Propene	3.26	42	108050m	4.814	ng	
3) Dichlorodifluoromethan...	3.34	85	21868	0.561	ng	99
4) Chloromethane	3.47	50	8995	0.368	ng	93
10) Ethanol	4.31	45	1341767	83.787	ng	99
12) Acrolein	4.52	56	4483	0.420	ng	93
13) Acetone	4.61	58	668190	55.062	ng	# 1
14) Trichlorofluoromethane	4.74	101	10650	0.274	ng	99
15) 2-Propanol (Isopropanol)	4.86	45	1595887	33.684	ng	95
19) Methylene Chloride	5.35	84	106339	6.639	ng	99
21) Trichlorotrifluoroethane	5.56	151	1615	0.092	ng	# 79
22) Carbon Disulfide	5.59	76	56804	0.974	ng	97
27) 2-Butanone (MEK)	6.65	72	103797	10.731	ng	# 86
30) Ethyl Acetate	7.27	61	1008313	135.587	ng	100
31) n-Hexane	7.28	57	209559	6.787	ng	99
32) Chloroform	7.36	83	26771	0.790	ng	98
34) Tetrahydrofuran (THF)	7.72	72	99720	10.294	ng	97
36) 1,2-Dichloroethane	8.11	62	53538	1.817	ng	97
41) Benzene	8.87	78	247066	3.773	ng	99
42) Carbon Tetrachloride	9.04	117	2907	0.101	ng	99
43) Cyclohexane	9.19	84	158595	6.511	ng	97
45) 1,2-Dichloropropane	9.83	63	103907	5.631	ng	96
49) 2,2,4-Trimethylpentane...	10.20	57	491810	6.142	ng	97
50) Methyl Methacrylate	10.38	100	16909	2.736	ng	# 66
51) n-Heptane	10.54	71	65404	4.010	ng	97
53) 4-Methyl-2-pentanone	11.30	58	26391	1.646	ng	84
58) Toluene	12.53	91	7176577	101.720	ng	96
62) n-Butyl Acetate	13.74	43	133449	2.705	ng	96
63) n-Octane	13.89	57	19741	1.282	ng	94
64) Tetrachloroethene	13.99	166	8590	0.353	ng	99
66) Ethylbenzene	15.37	91	679546	8.398	ng	100
67) m- & p-Xylenes	15.60	91	1476565	22.235	ng	97
69) Styrene	16.07	104	121524	2.902	ng	98
70) o-Xylene	16.21	91	586648	8.965	ng	99
71) n-Nonane	16.58	43	24385	0.590	ng	97
74) Cumene	17.00	105	26209	0.325	ng	100
75) alpha-Pinene	17.49	93	135442	3.984	ng	100
76) n-Propylbenzene	17.64	91	55489	0.575	ng	99
78) 4-Ethyltoluene	17.83	105	63240	0.829	ng	98
79) 1,3,5-Trimethylbenzene	17.93	105	47064	0.687	ng	98
82) 1,2,4-Trimethylbenzene	18.41	105	178061	2.559	ng	90
85) 1,3-Dichlorobenzene	18.55	146	9517	0.236	ng	99
88) 4-Isopropyltoluene (p-...	18.90	119	56229	0.710	ng	85
91) d-Limonene	19.06	68	313922	13.468	ng	96

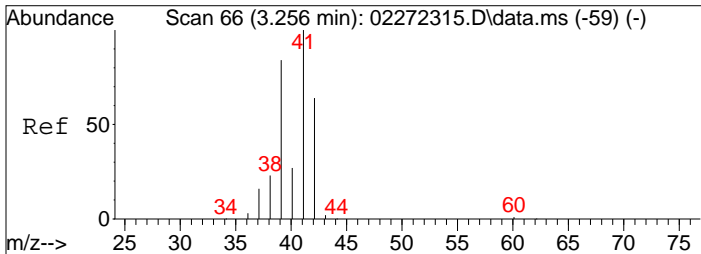
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS09\DATA\2023 03\21\03212314.D
Acq On : 21 Mar 2023 12:21
Sample : P2301184-007 (300ml)
Misc : S35-02212305

Vial: 10
Operator: WA/SR
Inst : MS09

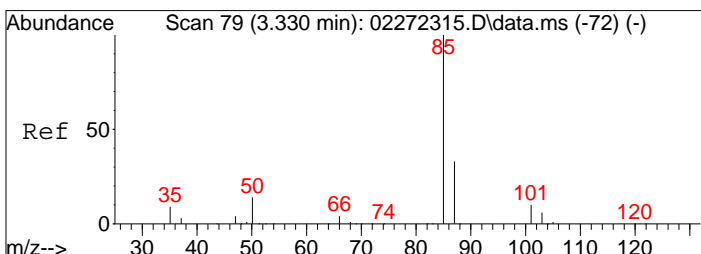
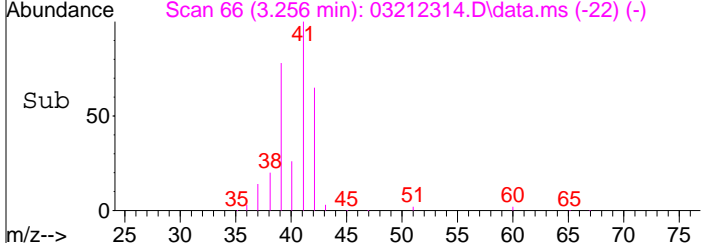
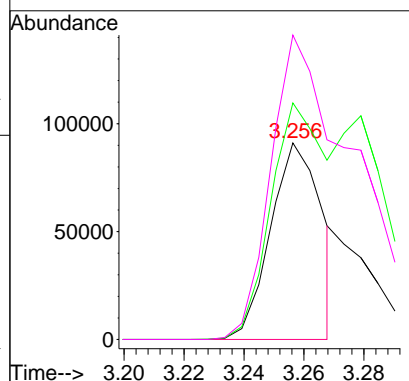
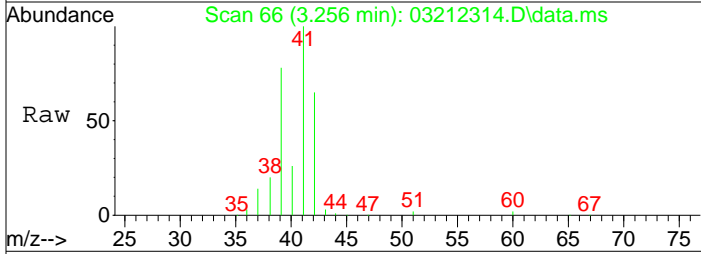
Quant Time: Mar 21 21:24:19 2023
Quant Method : I:\MS09\METHODS\R9022723.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Feb 28 08:30:18 2023
Response via : Initial Calibration
DataAcq Meth:TO15.M





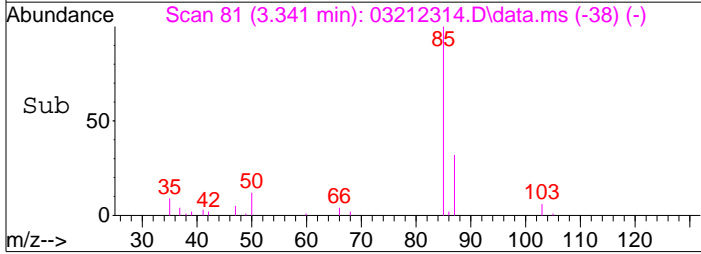
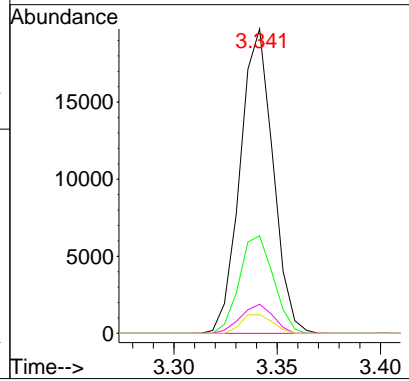
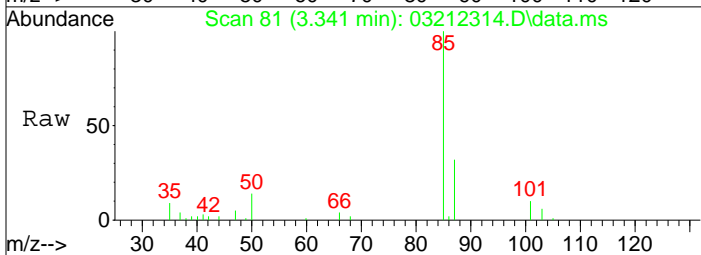
#2
 Propene
 Concen: 4.81 ng m
 RT: 3.26 min Scan# 66
 Delta R.T. 0.000 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

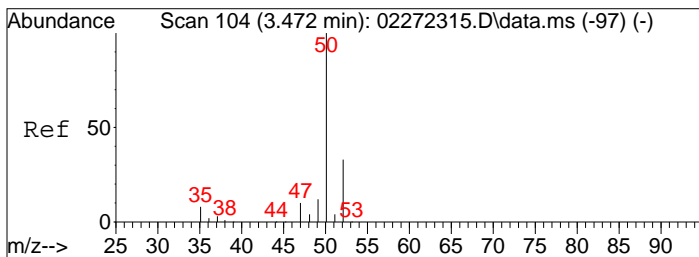
Tgt Ion:	42	Resp:	108050
Ion Ratio	Lower	Upper	
42	100		
39	127.9	110.0	150.0
41	158.5	135.8	175.8



#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 0.56 ng
 RT: 3.34 min Scan# 81
 Delta R.T. -0.009 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

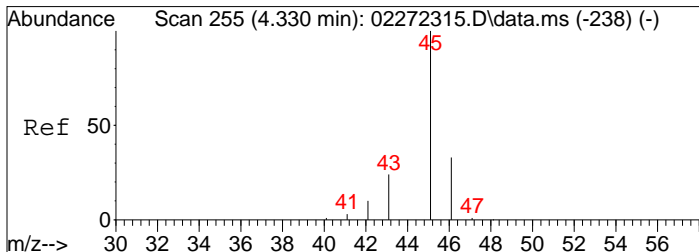
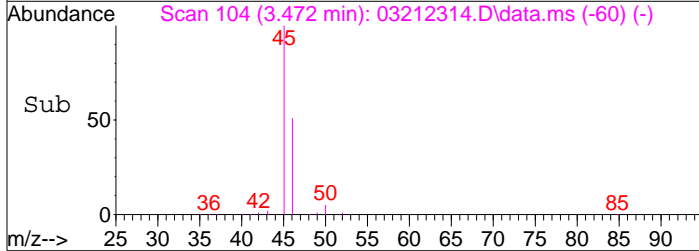
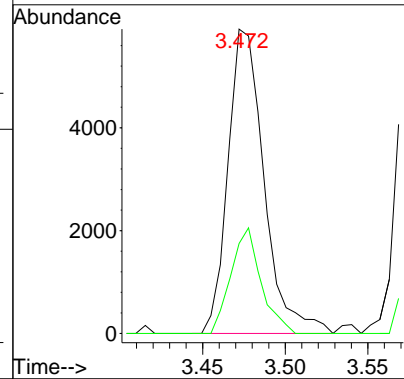
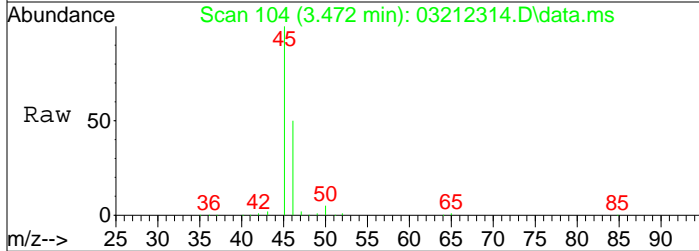
Tgt Ion:	85	Resp:	21868
Ion Ratio	Lower	Upper	
85	100		
87	33.3	12.3	52.3
101	9.4	0.0	29.7
103	6.0	0.0	26.3





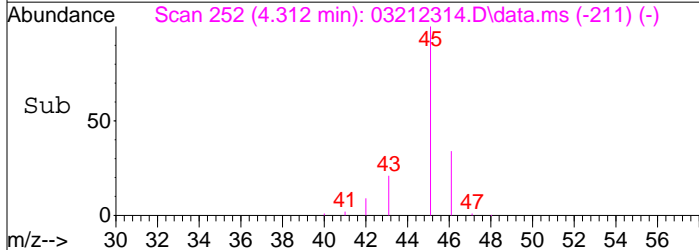
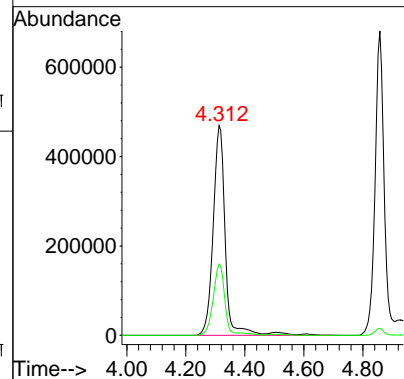
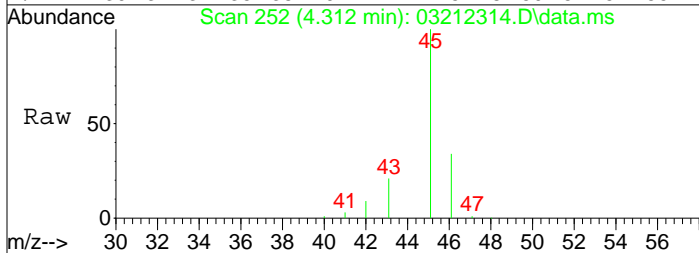
#4
 Chloromethane
 Concen: 0.37 ng
 RT: 3.47 min Scan# 104
 Delta R.T. -0.000 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

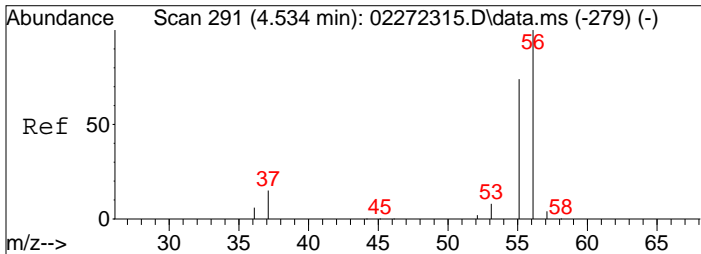
Tgt Ion: 50 Resp: 8995
 Ion Ratio Lower Upper
 50 100
 52 28.9 12.8 52.8



#10
 Ethanol
 Concen: 83.79 ng
 RT: 4.31 min Scan# 252
 Delta R.T. -0.018 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

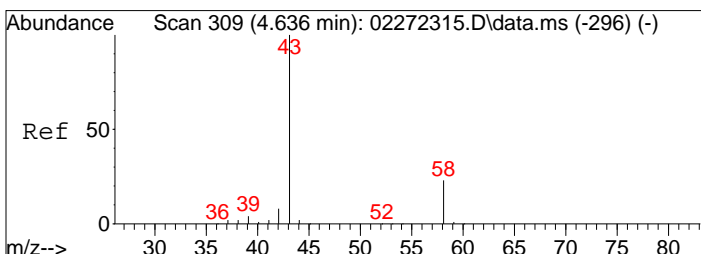
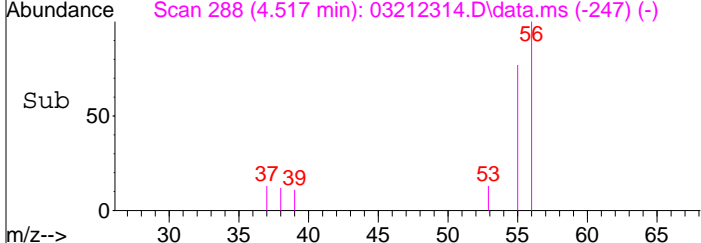
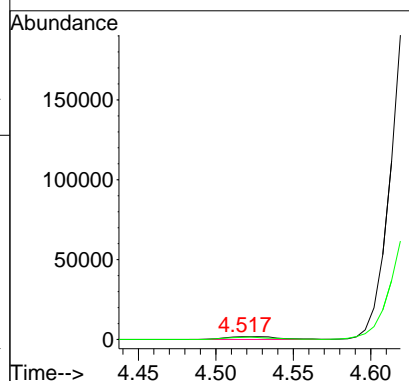
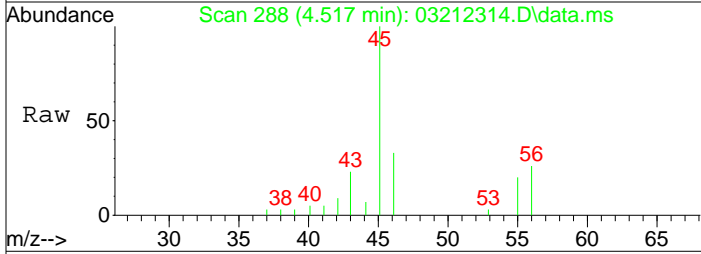
Tgt Ion: 45 Resp: 1341767
 Ion Ratio Lower Upper
 45 100
 46 33.7 13.4 53.4





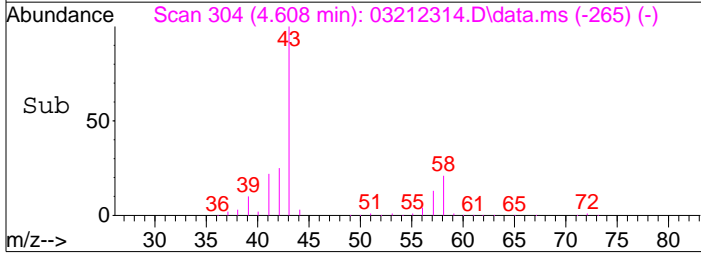
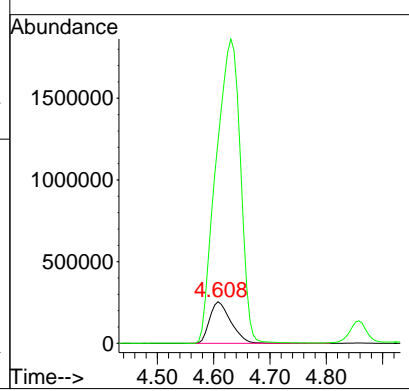
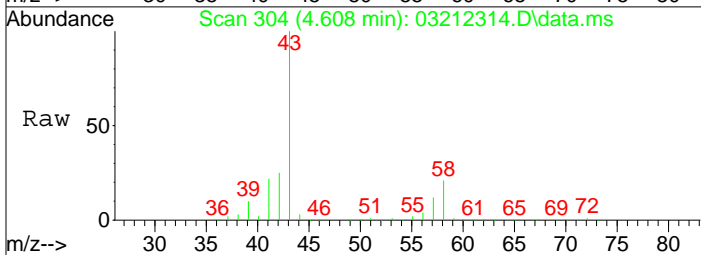
#12
 Acrolein
 Concen: 0.42 ng
 RT: 4.52 min Scan# 288
 Delta R.T. -0.017 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

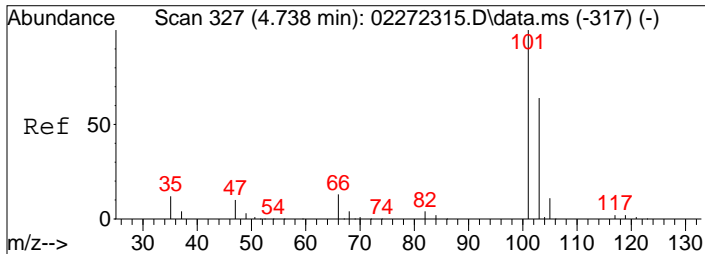
Tgt Ion	Resp	Lower	Upper
56	100		
55	70.4	56.4	96.4



#13
 Acetone
 Concen: 55.06 ng
 RT: 4.61 min Scan# 304
 Delta R.T. -0.029 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

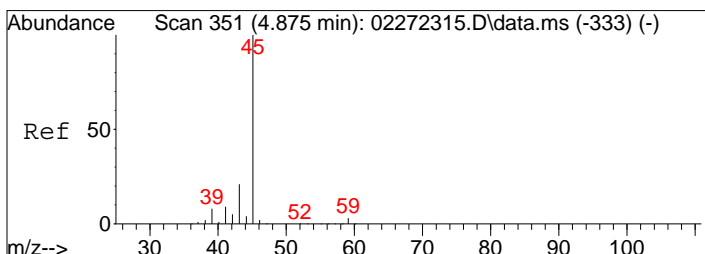
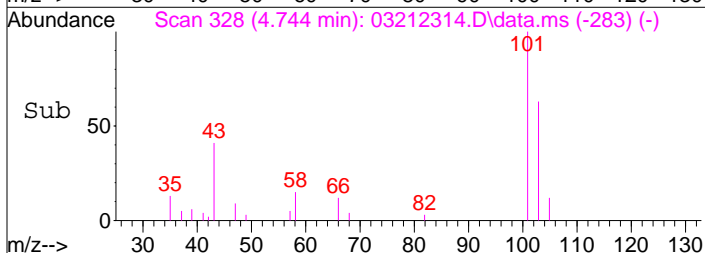
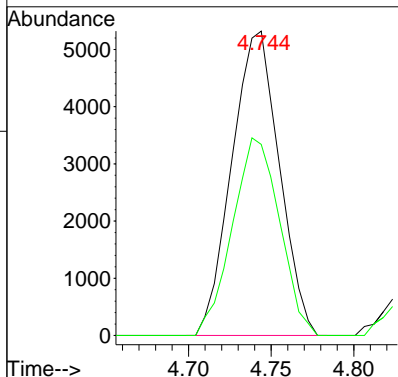
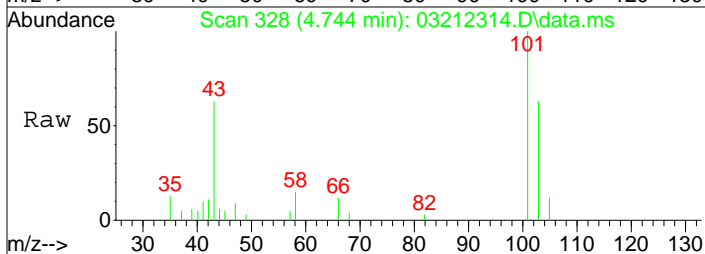
Tgt Ion	Resp	Lower	Upper
58	100		
43	838.5	414.4	474.4#





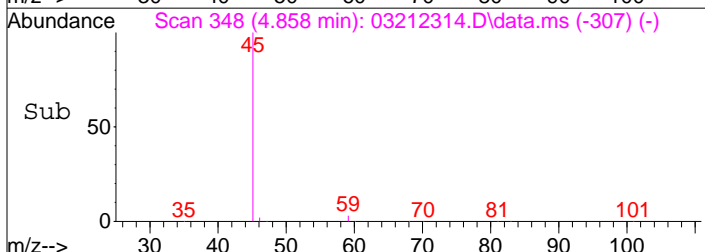
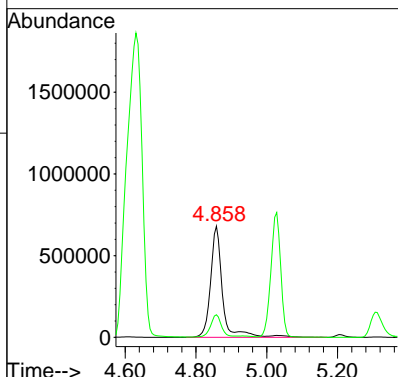
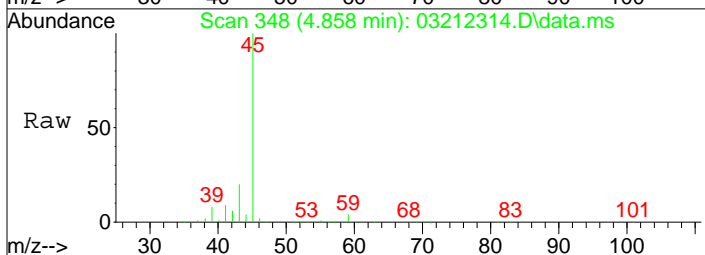
#14
 Trichlorofluoromethane
 Concen: 0.27 ng
 RT: 4.74 min Scan# 328
 Delta R.T. 0.006 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

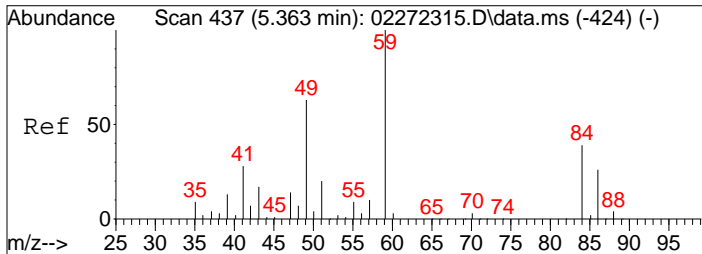
Tgt Ion: 101 Resp: 10650
 Ion Ratio Lower Upper
 101 100
 103 64.5 44.0 84.0



#15
 2-Propanol (Isopropanol)
 Concen: 33.68 ng
 RT: 4.86 min Scan# 348
 Delta R.T. -0.017 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

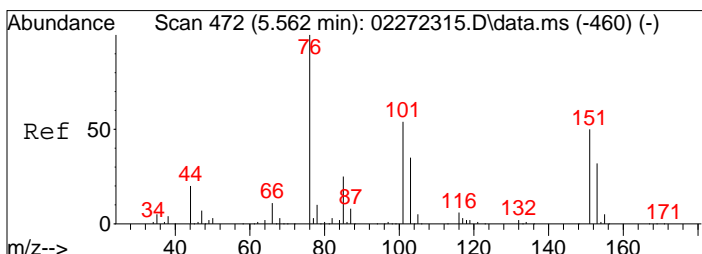
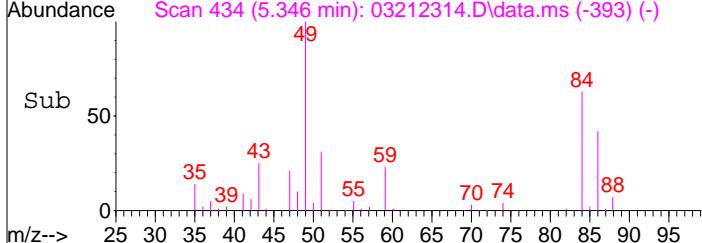
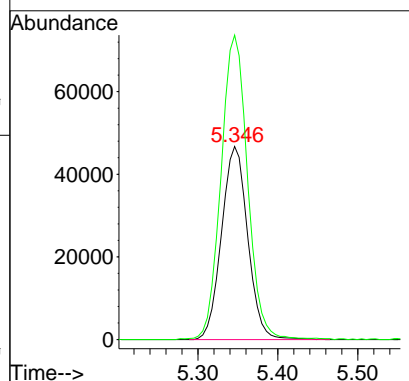
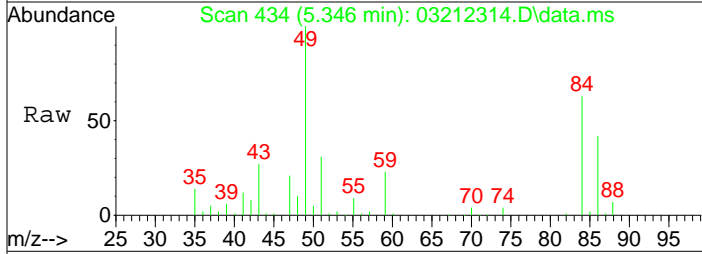
Tgt Ion: 45 Resp: 1595887
 Ion Ratio Lower Upper
 45 100
 43 19.4 1.6 41.6





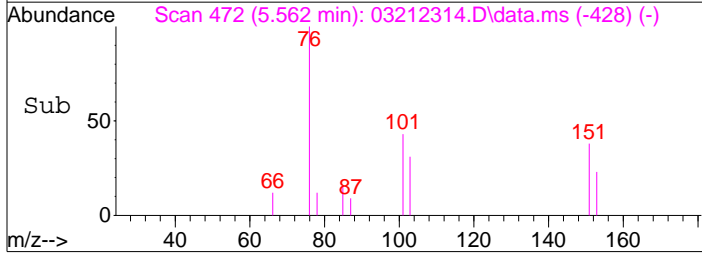
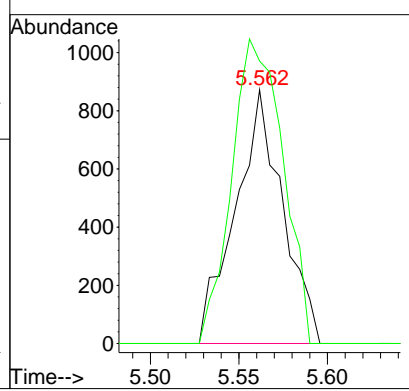
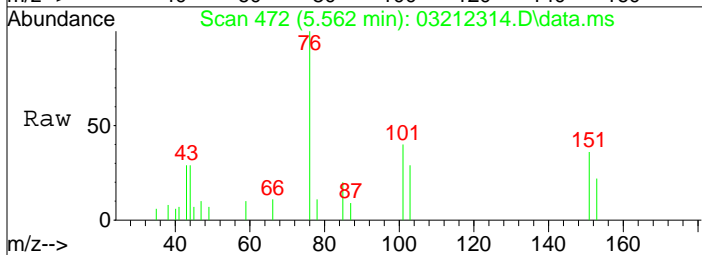
#19
 Methylene Chloride
 Concen: 6.64 ng
 RT: 5.35 min Scan# 434
 Delta R.T. -0.017 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

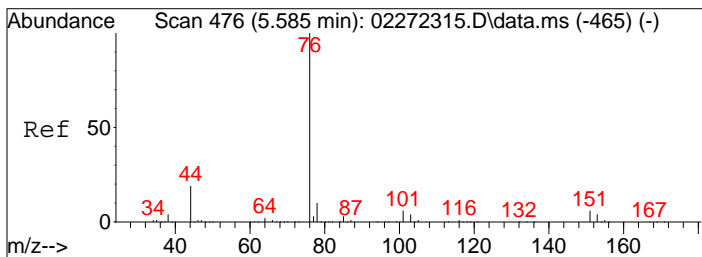
Tgt Ion	Resp	Lower	Upper
84	106339		
84	100		
49	160.0	136.0	186.0



#21
 Trichlorotrifluoroethane
 Concen: 0.09 ng
 RT: 5.56 min Scan# 472
 Delta R.T. -0.000 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

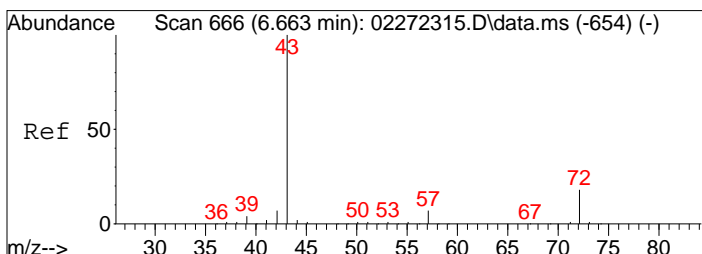
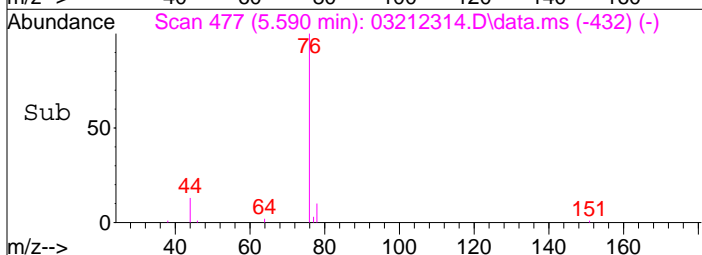
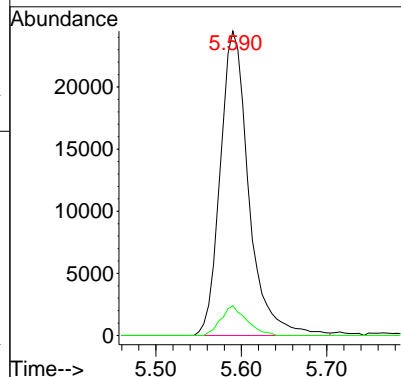
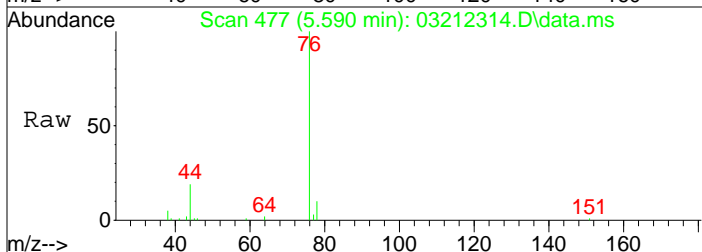
Tgt Ion	Resp	Lower	Upper
151	1615		
151	100		
101	130.5	88.2	128.2#





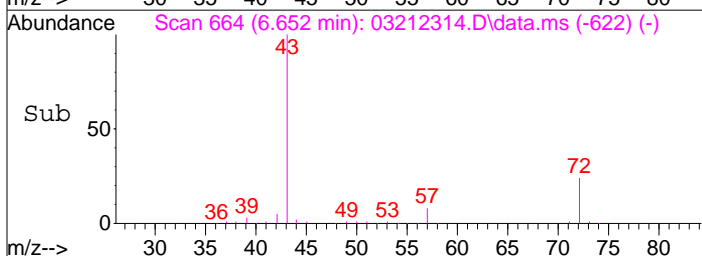
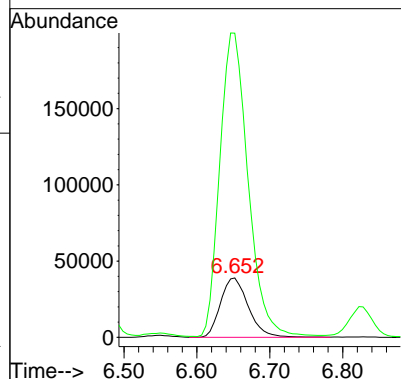
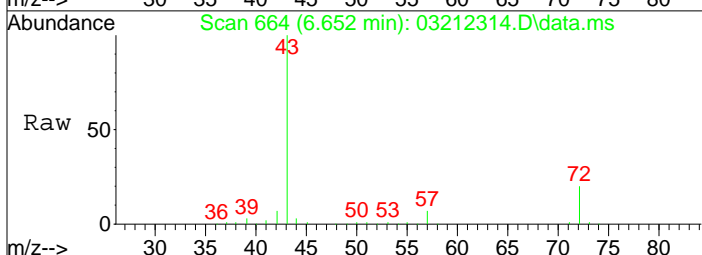
#22
 Carbon Disulfide
 Concen: 0.97 ng
 RT: 5.59 min Scan# 477
 Delta R.T. 0.006 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

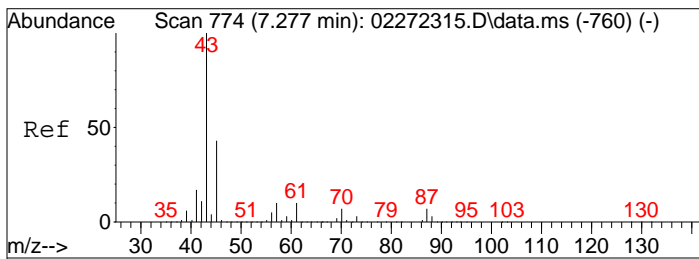
Tgt Ion	Resp	Lower	Upper
76	100		
78	8.8	0.0	29.7



#27
 2-Butanone (MEK)
 Concen: 10.73 ng
 RT: 6.65 min Scan# 664
 Delta R.T. -0.012 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

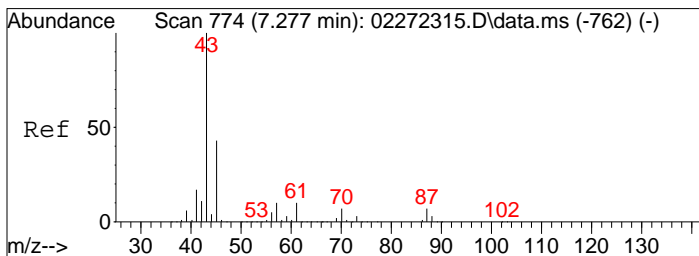
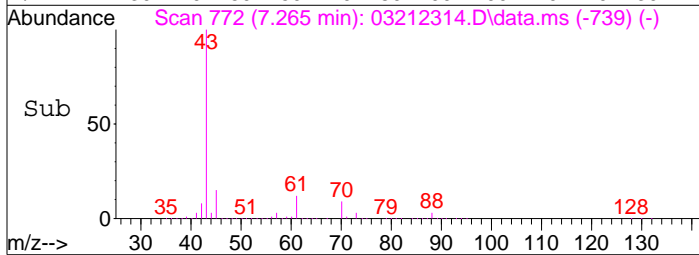
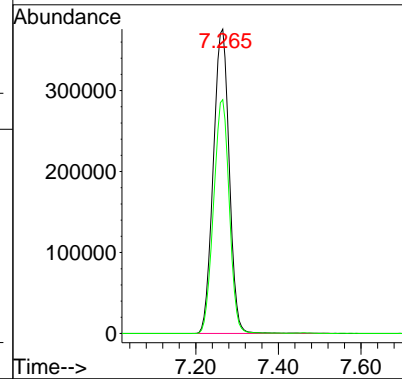
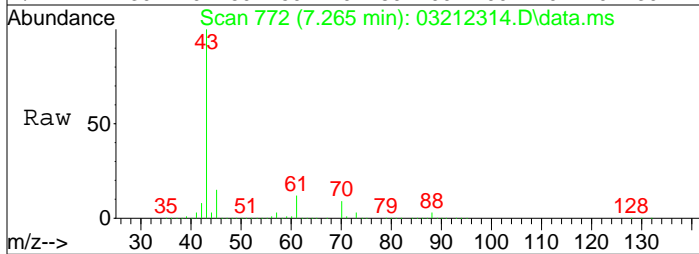
Tgt Ion	Resp	Lower	Upper
72	100		
43	515.1	536.0	576.0#





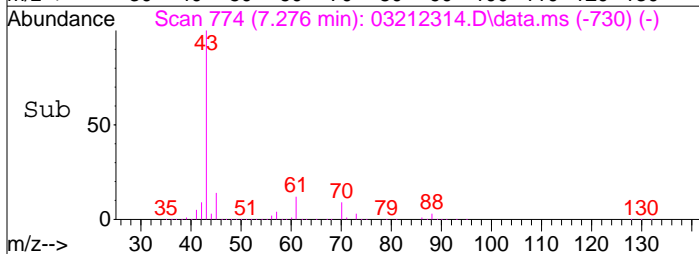
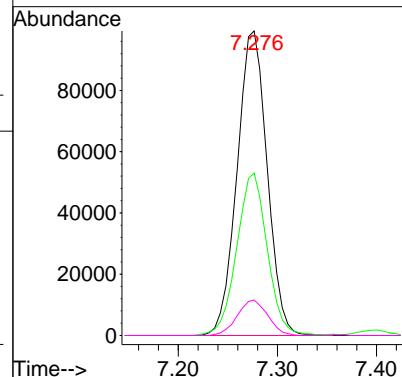
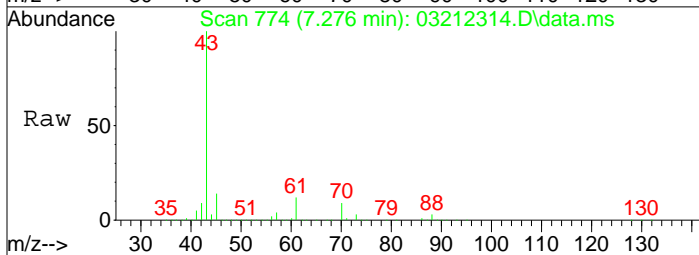
#30
Ethyl Acetate
Concen: 135.59 ng
RT: 7.27 min Scan# 772
Delta R.T. -0.012 min
Lab File: 03212314.D
Acq: 21 Mar 2023 12:21

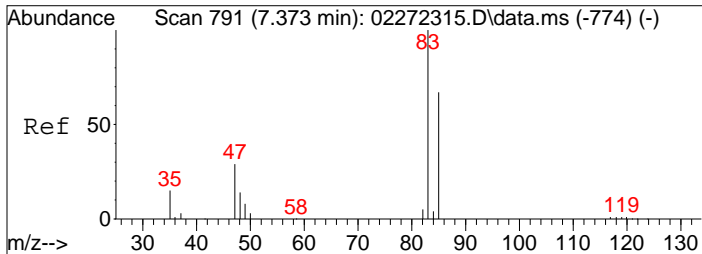
Tgt Ion: 61 Resp: 1008313
Ion Ratio Lower Upper
61 100
70 75.6 55.8 95.8



#31
n-Hexane
Concen: 6.79 ng
RT: 7.28 min Scan# 774
Delta R.T. -0.000 min
Lab File: 03212314.D
Acq: 21 Mar 2023 12:21

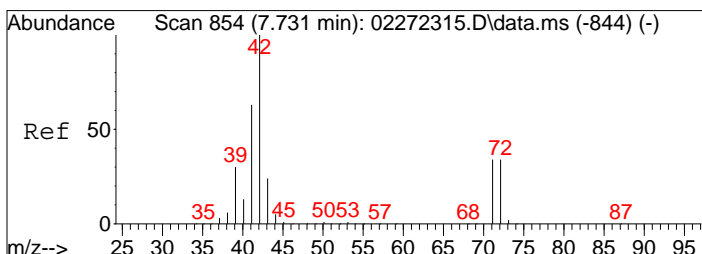
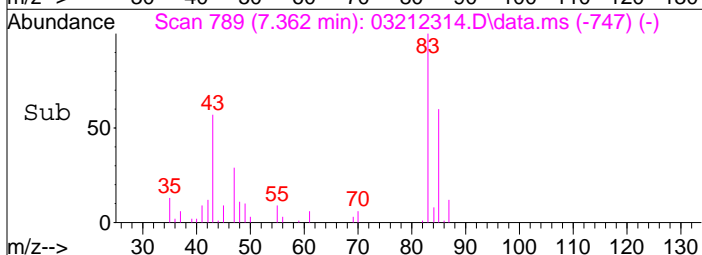
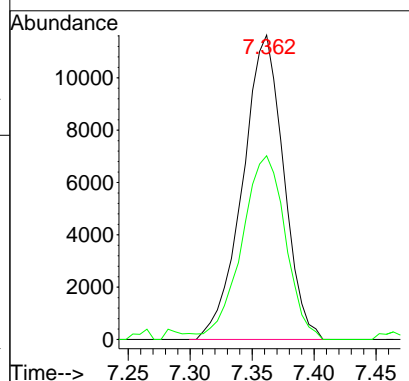
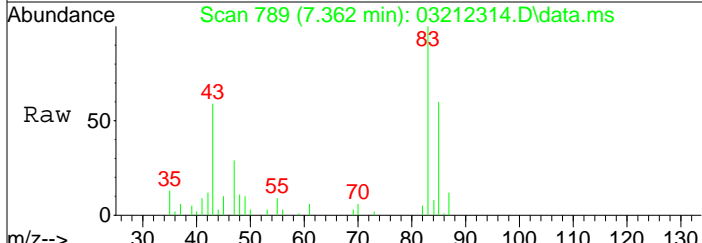
Tgt Ion: 57 Resp: 209559
Ion Ratio Lower Upper
57 100
56 54.0 43.3 64.9
86 11.7 10.2 15.2





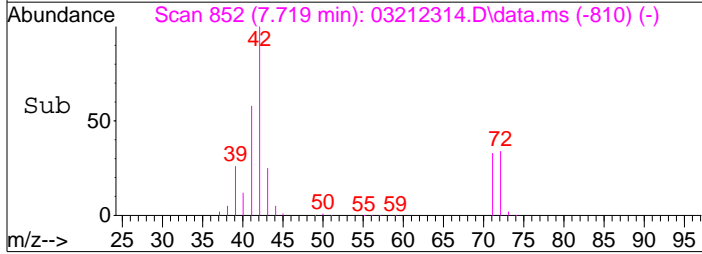
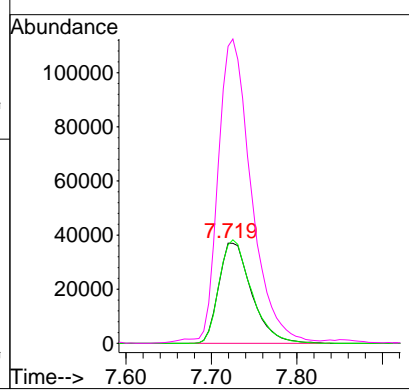
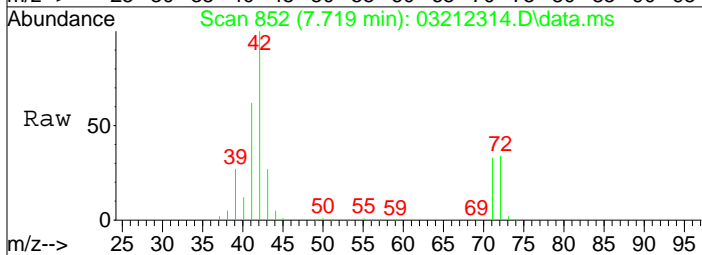
#32
 Chloroform
 Concen: 0.79 ng
 RT: 7.36 min Scan# 789
 Delta R.T. -0.012 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

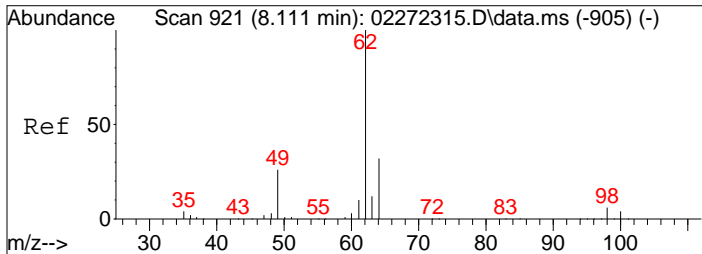
Tgt Ion:	83	Resp:	26771
Ion Ratio	Lower	Upper	
83	100		
85	64.4	46.3	86.3



#34
 Tetrahydrofuran (THF)
 Concen: 10.29 ng
 RT: 7.72 min Scan# 852
 Delta R.T. -0.012 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

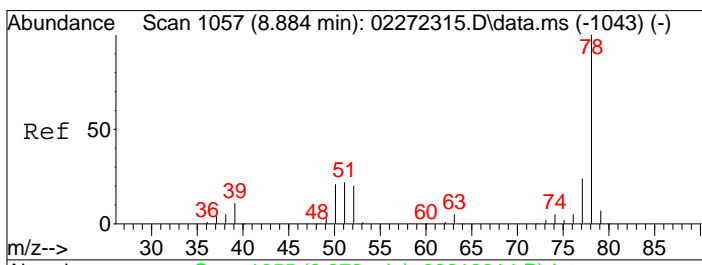
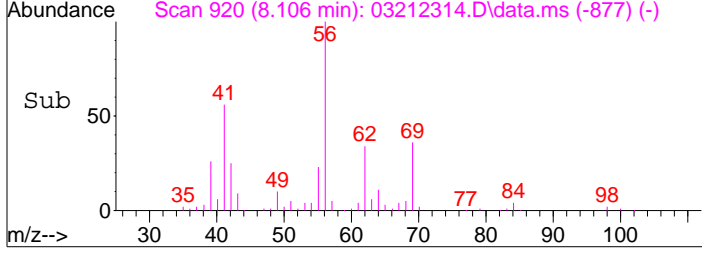
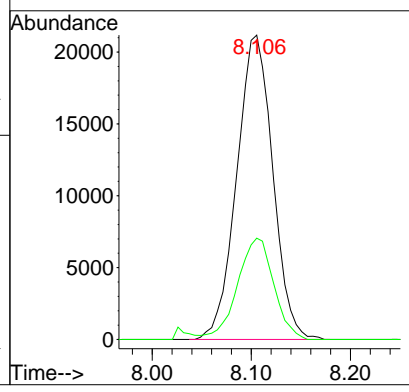
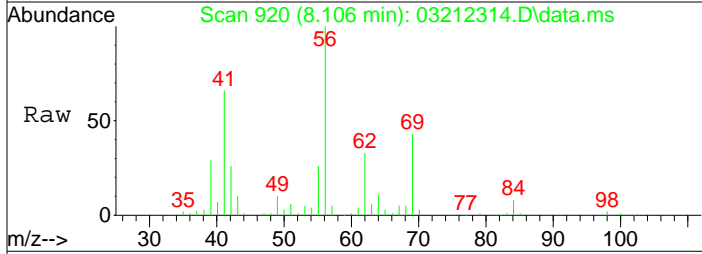
Tgt Ion:	72	Resp:	99720
Ion Ratio	Lower	Upper	
72	100		
71	100.6	81.3	121.3
42	306.5	293.7	333.7





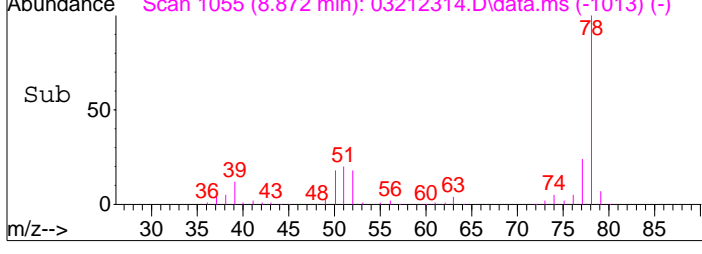
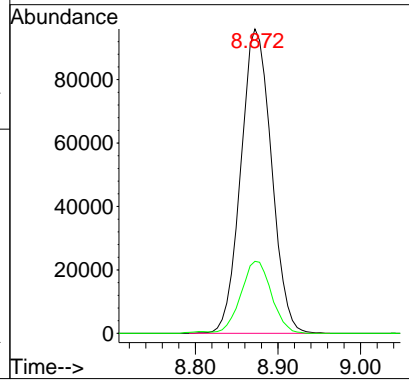
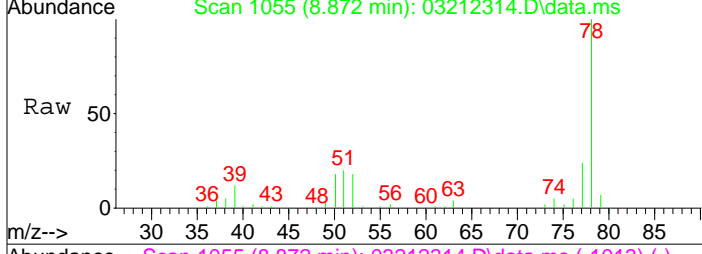
#36
 1,2-Dichloroethane
 Concen: 1.82 ng
 RT: 8.11 min Scan# 920
 Delta R.T. -0.006 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

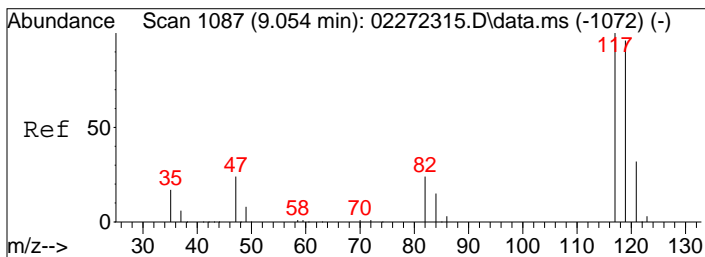
Tgt Ion	Resp	Lower	Upper
62	100		
64	33.5	12.0	52.0



#41
 Benzene
 Concen: 3.77 ng
 RT: 8.87 min Scan# 1055
 Delta R.T. -0.012 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

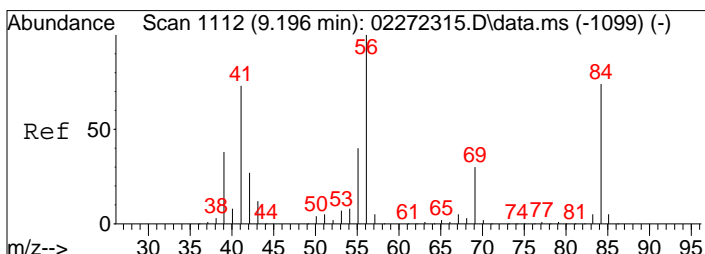
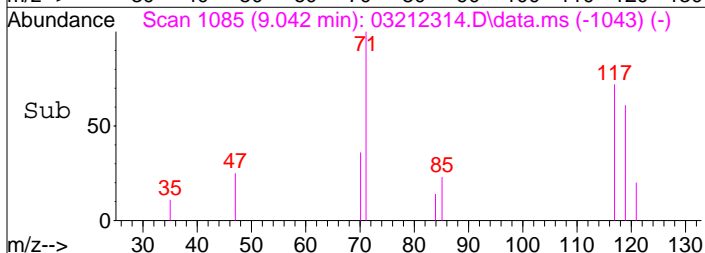
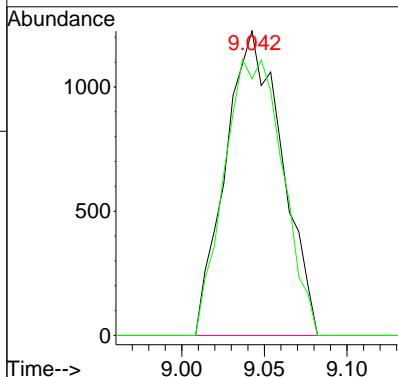
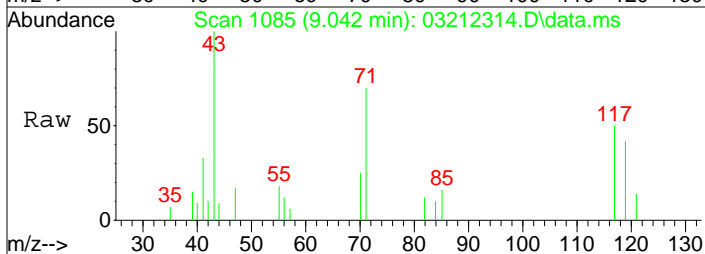
Tgt Ion	Resp	Lower	Upper
78	100		
77	23.6	4.0	44.0





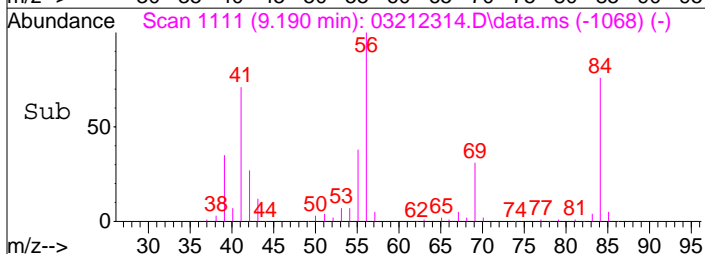
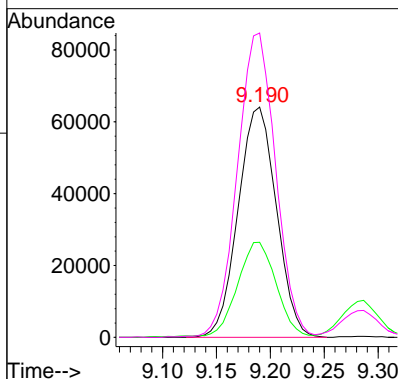
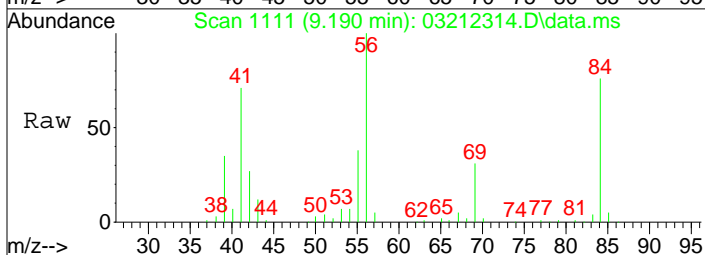
#42
 Carbon Tetrachloride
 Concen: 0.10 ng
 RT: 9.04 min Scan# 1085
 Delta R.T. -0.012 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

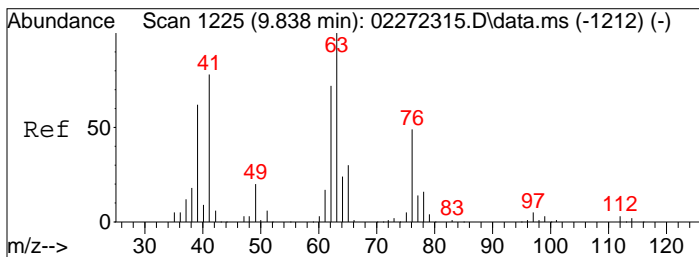
Tgt Ion: 117 Resp: 2907
 Ion Ratio Lower Upper
 117 100
 119 94.2 75.5 115.5



#43
 Cyclohexane
 Concen: 6.51 ng
 RT: 9.19 min Scan# 1111
 Delta R.T. -0.006 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

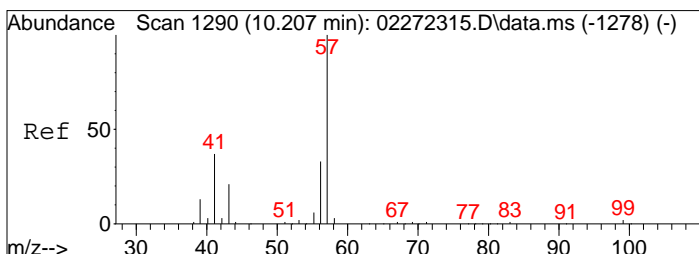
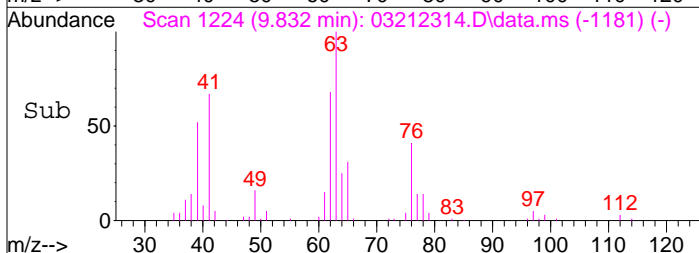
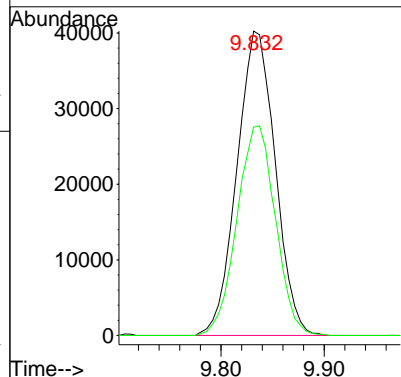
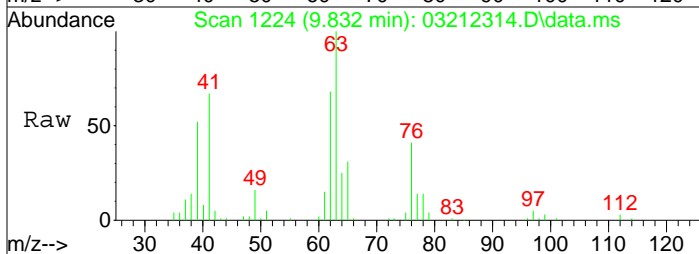
Tgt Ion: 84 Resp: 158595
 Ion Ratio Lower Upper
 84 100
 69 42.3 20.6 60.6
 56 132.3 116.1 156.1





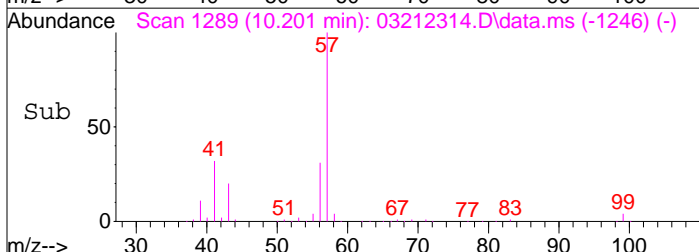
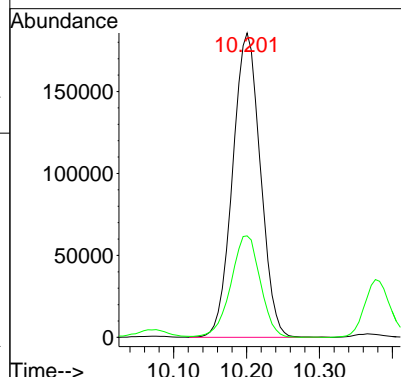
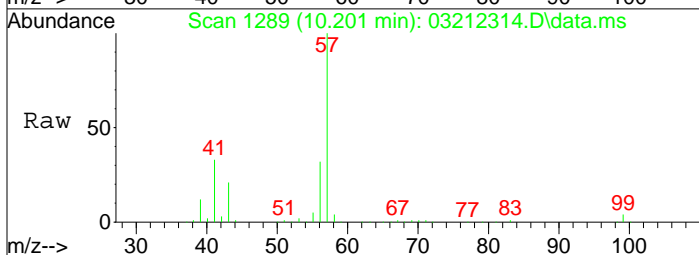
#45
 1,2-Dichloropropane
 Concen: 5.63 ng
 RT: 9.83 min Scan# 1224
 Delta R.T. -0.006 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

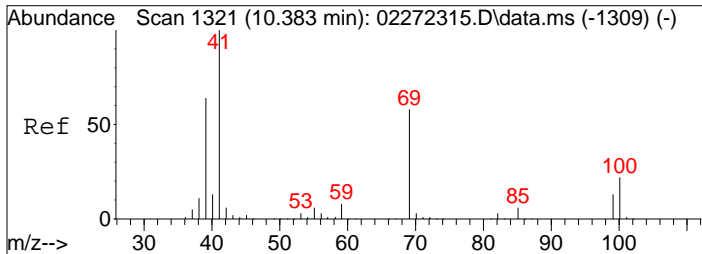
Tgt Ion: 63 Resp: 103907
 Ion Ratio Lower Upper
 63 100
 62 69.2 52.1 92.1



#49
 2,2,4-Trimethylpentane (Isooctane)
 Concen: 6.14 ng
 RT: 10.20 min Scan# 1289
 Delta R.T. -0.006 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

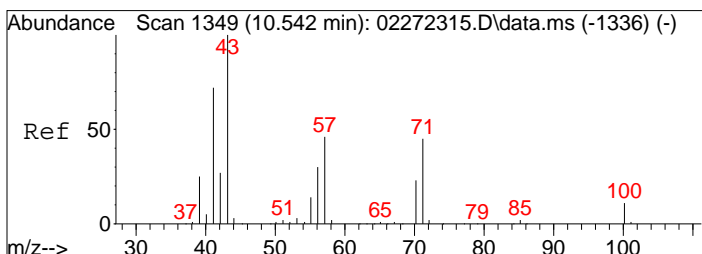
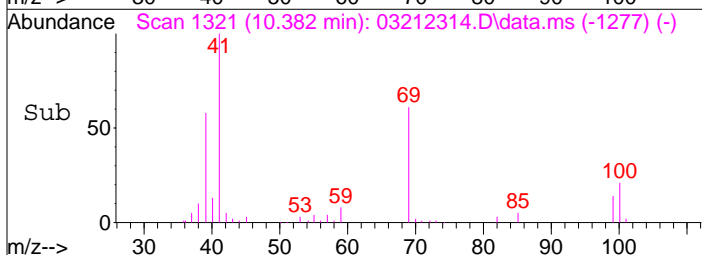
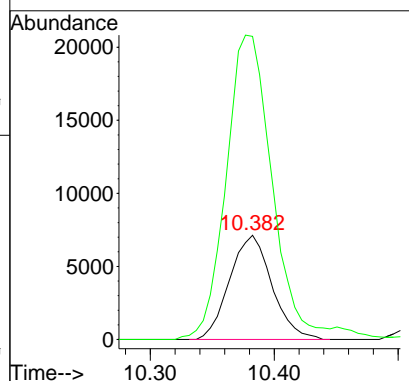
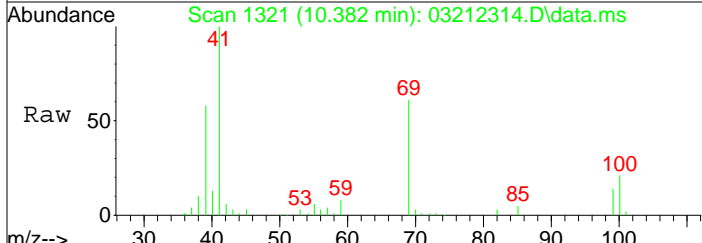
Tgt Ion: 57 Resp: 491810
 Ion Ratio Lower Upper
 57 100
 41 35.4 17.1 57.1





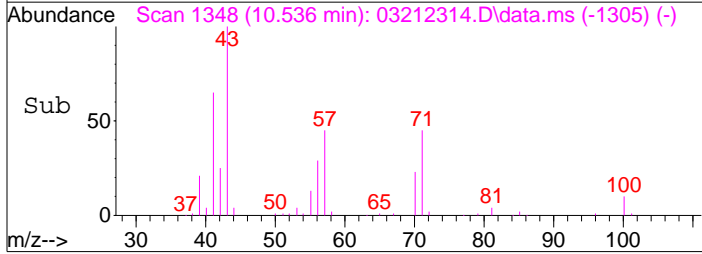
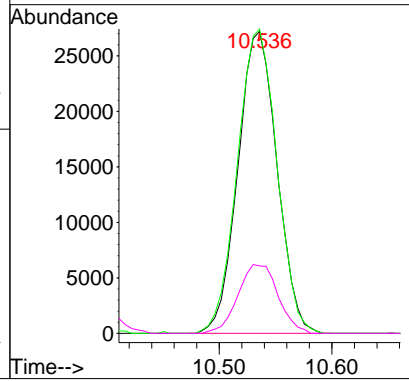
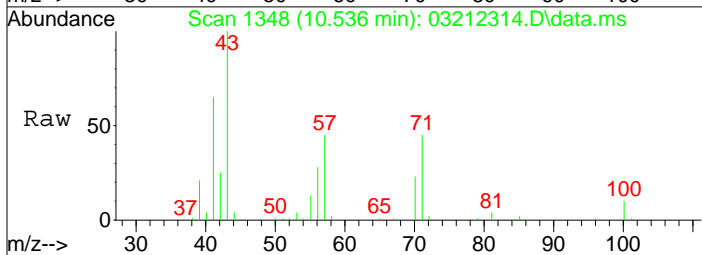
#50
 Methyl Methacrylate
 Concen: 2.74 ng
 RT: 10.38 min Scan# 1321
 Delta R.T. -0.000 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

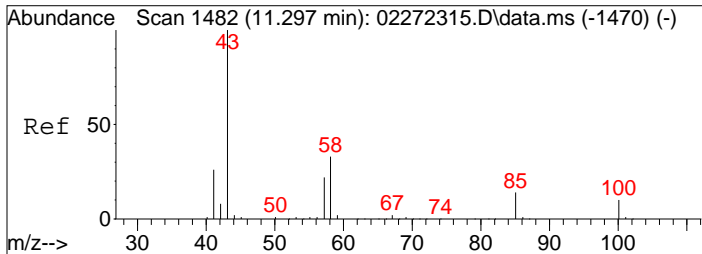
Tgt Ion	Resp	Lower	Upper
100	16909		
69	322.4	241.7	281.7#



#51
 n-Heptane
 Concen: 4.01 ng
 RT: 10.54 min Scan# 1348
 Delta R.T. -0.006 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

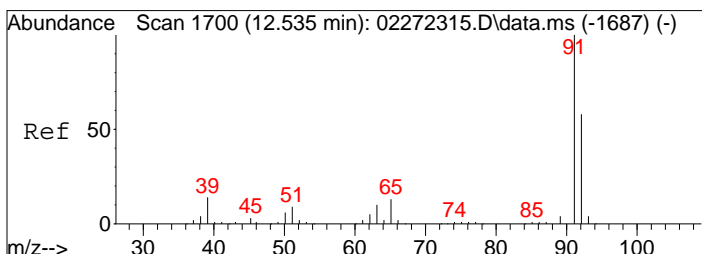
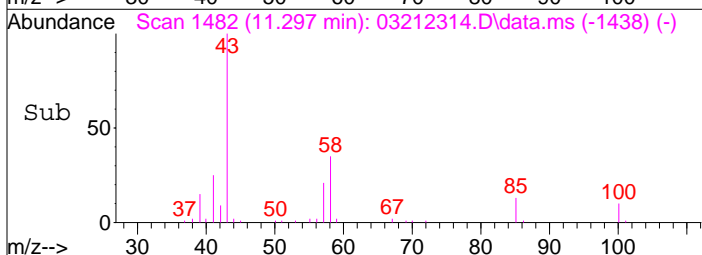
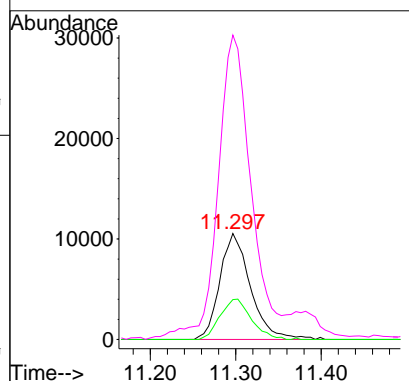
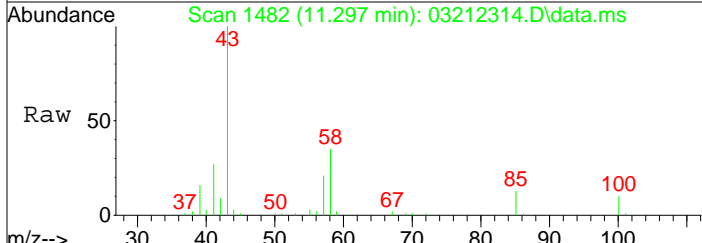
Tgt Ion	Resp	Lower	Upper
71	65404		
57	102.1	84.6	124.6
100	23.4	5.8	45.8





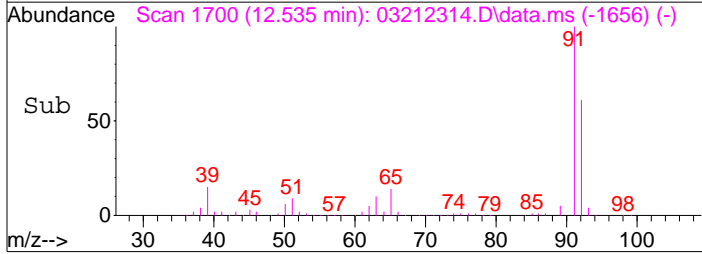
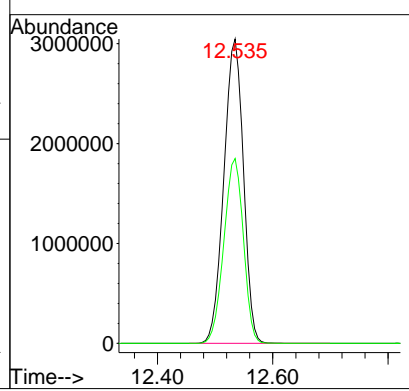
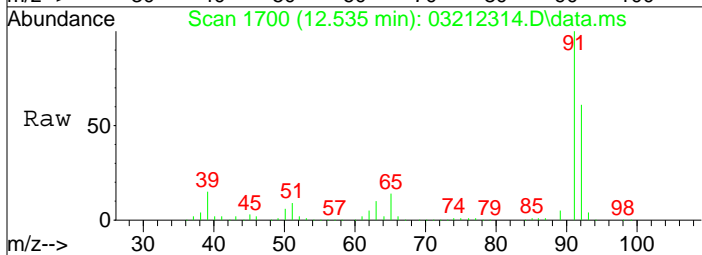
#53
 4-Methyl-2-pentanone
 Concen: 1.65 ng
 RT: 11.30 min Scan# 1482
 Delta R.T. -0.000 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

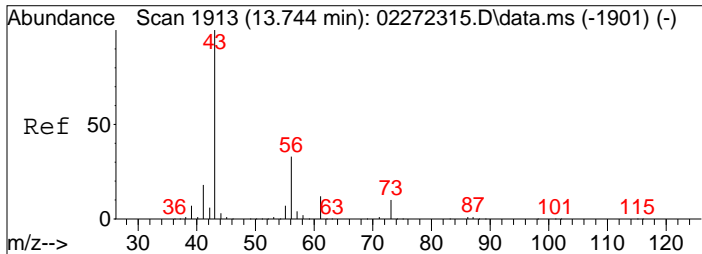
Tgt Ion	Resp	Lower	Upper
58	26391		
58	100		
85	38.5	35.7	53.5
43	338.2	242.9	364.3



#58
 Toluene
 Concen: 101.72 ng
 RT: 12.53 min Scan# 1700
 Delta R.T. -0.000 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

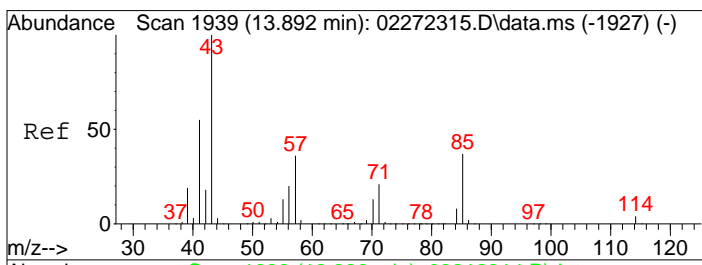
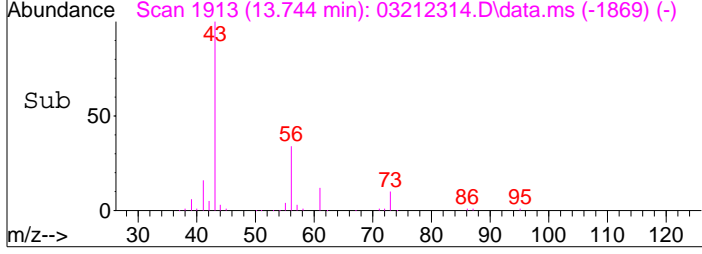
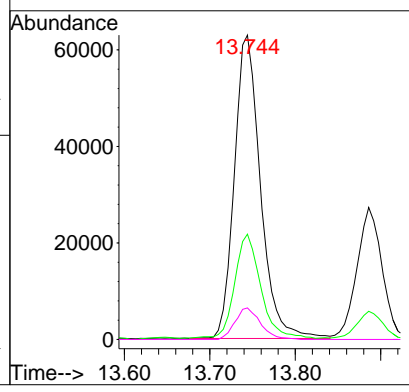
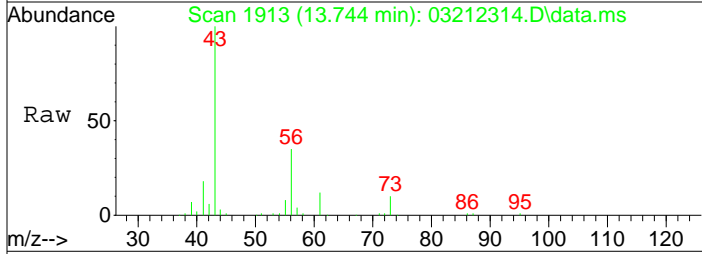
Tgt Ion	Resp	Lower	Upper
91	7176577		
91	100		
92	60.7	37.6	77.6





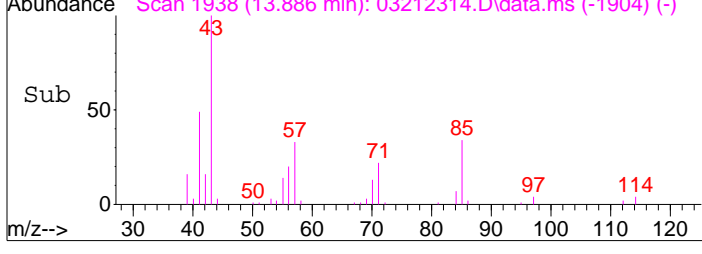
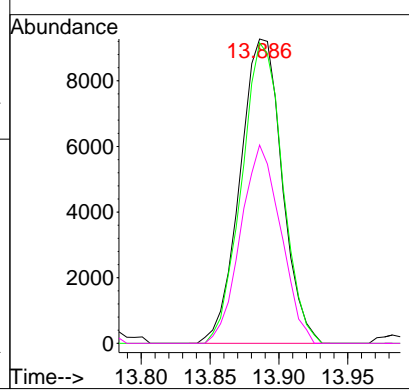
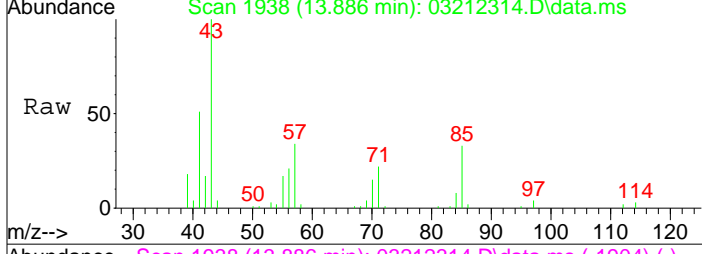
#62
 n-Butyl Acetate
 Concen: 2.71 ng
 RT: 13.74 min Scan# 1913
 Delta R.T. -0.000 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

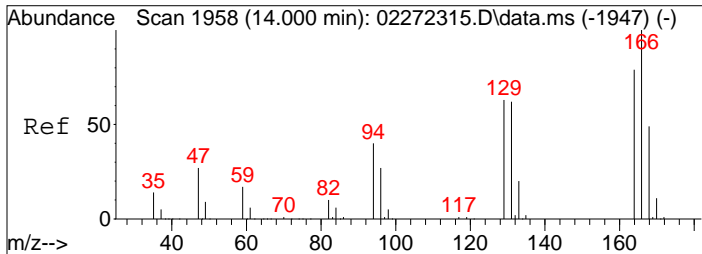
Tgt Ion:	Resp:	Lower	Upper
43	133449		
56	35.7	13.1	53.1
73	10.2	0.0	29.9



#63
 n-Octane
 Concen: 1.28 ng
 RT: 13.89 min Scan# 1938
 Delta R.T. -0.006 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

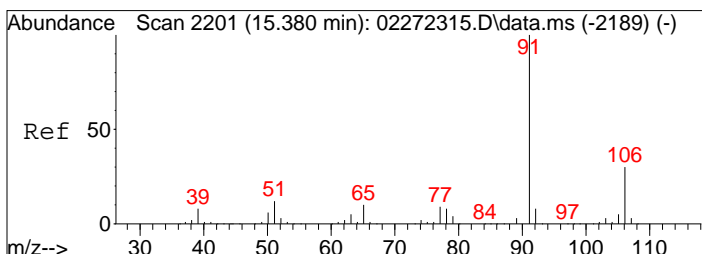
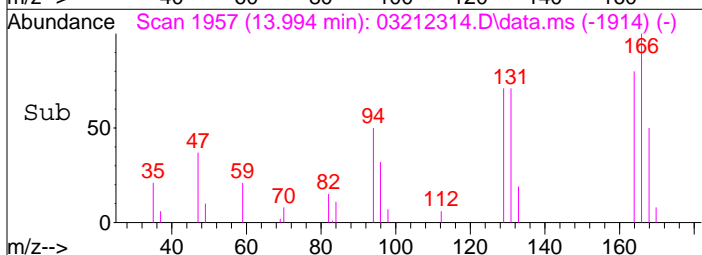
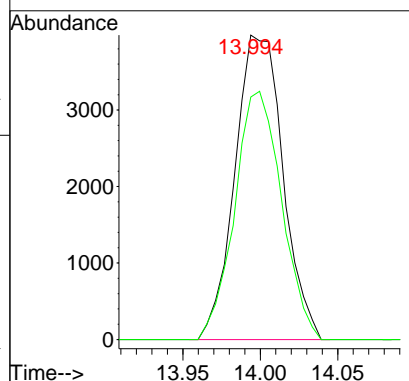
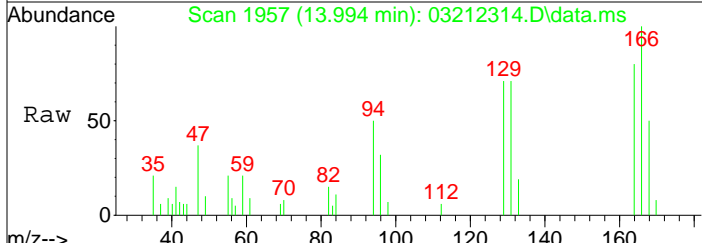
Tgt Ion:	Resp:	Lower	Upper
57	19741		
85	95.8	82.4	123.6
71	61.9	47.8	71.6





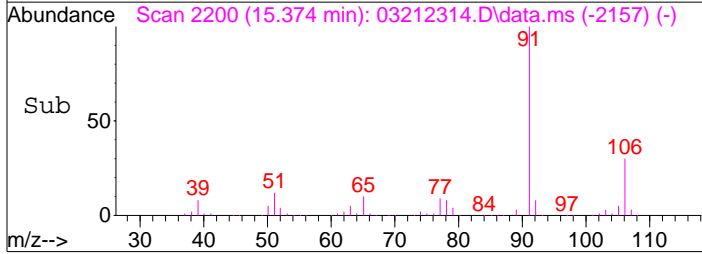
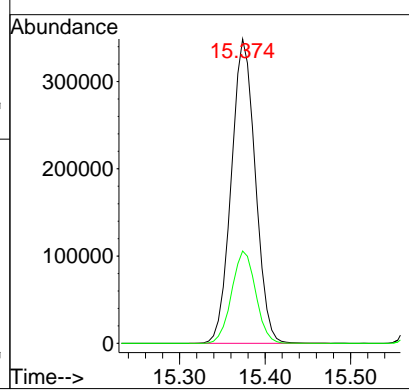
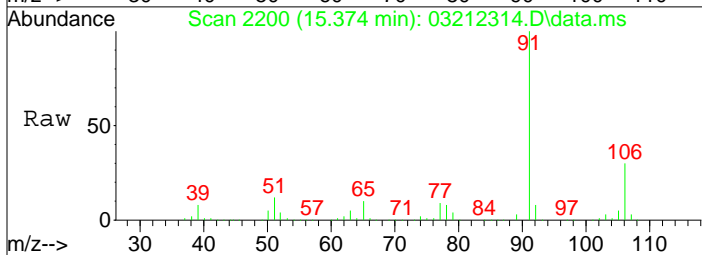
#64
 Tetrachloroethene
 Concen: 0.35 ng
 RT: 13.99 min Scan# 1957
 Delta R.T. -0.006 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

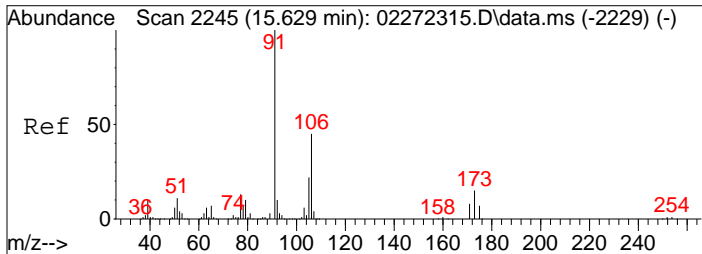
Tgt Ion	Resp	Lower	Upper
166	100		
164	79.5	58.6	98.6



#66
 Ethylbenzene
 Concen: 8.40 ng
 RT: 15.37 min Scan# 2200
 Delta R.T. -0.006 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

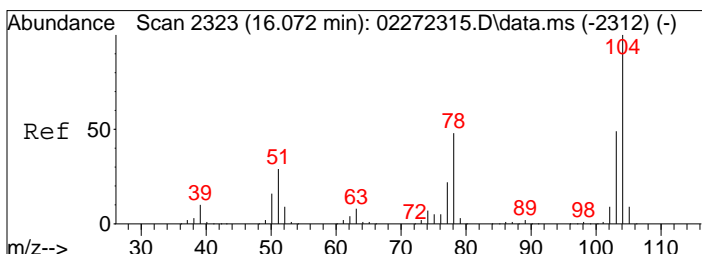
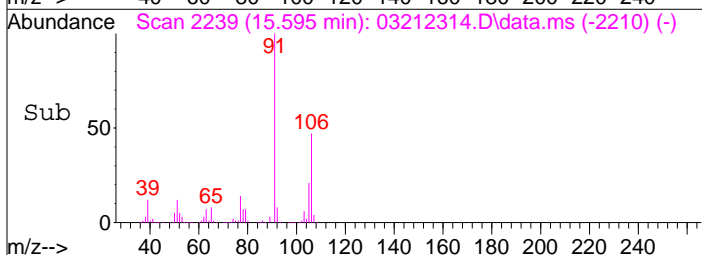
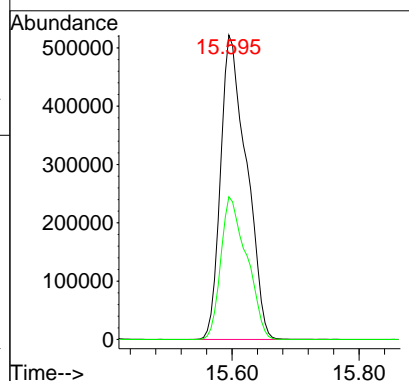
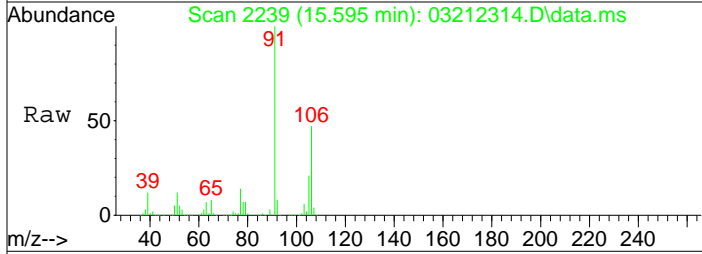
Tgt Ion	Resp	Lower	Upper
91	100		
106	30.4	10.3	50.3





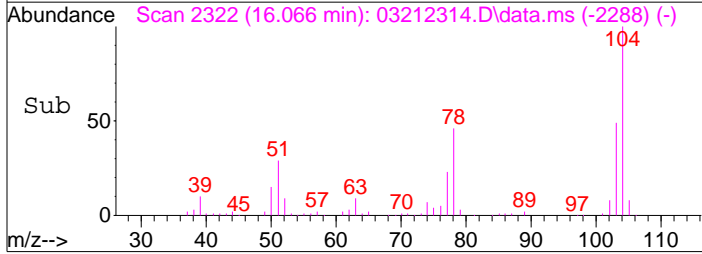
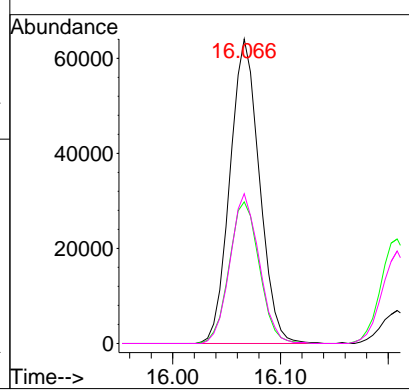
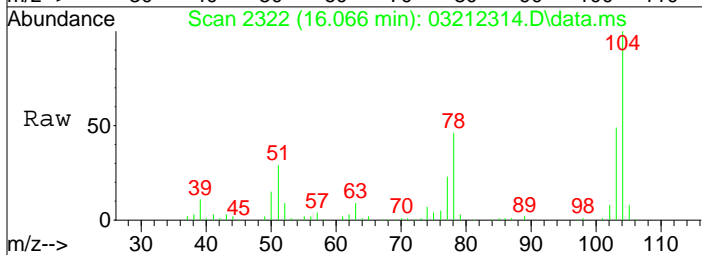
#67
 m- & p-Xylenes
 Concen: 22.24 ng
 RT: 15.60 min Scan# 2239
 Delta R.T. -0.034 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

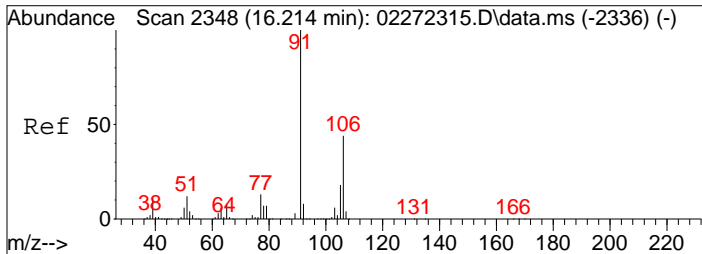
Tgt Ion:	Resp:	Lower	Upper
91	1476565	100	100
106	46.9	25.0	65.0



#69
 Styrene
 Concen: 2.90 ng
 RT: 16.07 min Scan# 2322
 Delta R.T. -0.006 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

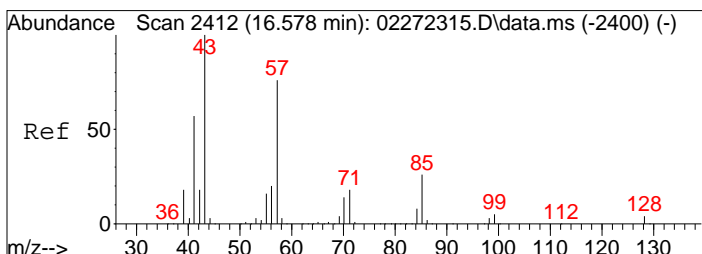
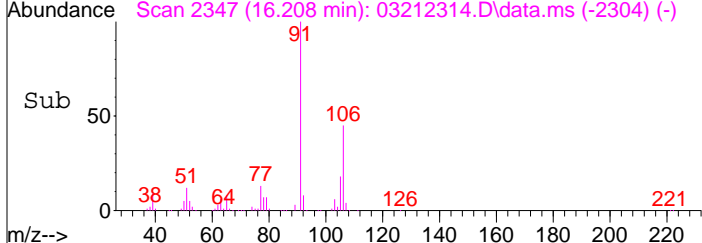
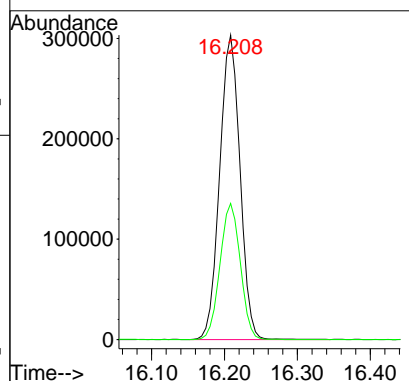
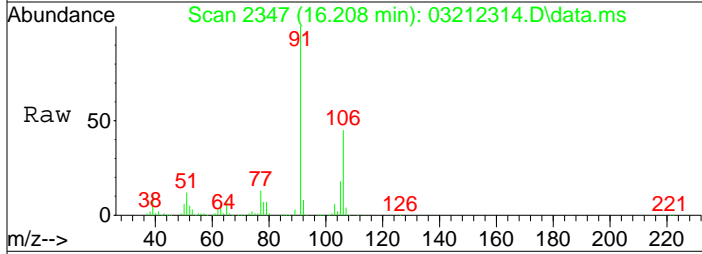
Tgt Ion:	Resp:	Lower	Upper
104	121524	100	100
78	47.5	29.2	69.2
103	48.5	29.2	69.2





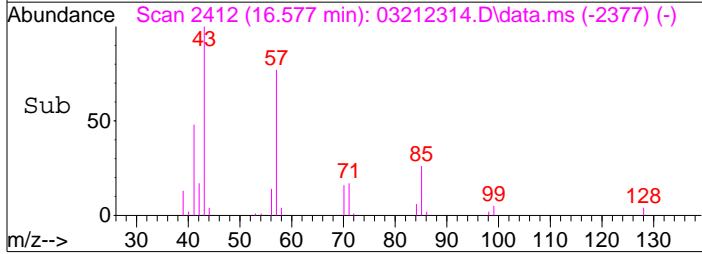
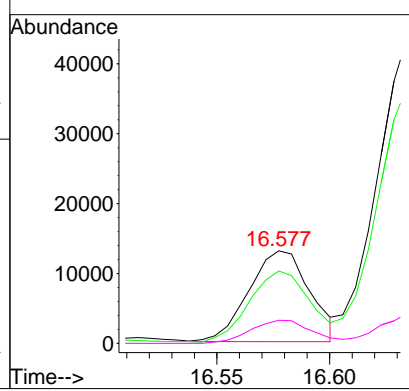
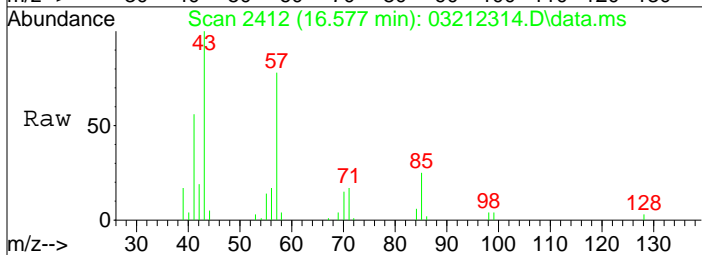
#70
 o-Xylene
 Concen: 8.97 ng
 RT: 16.21 min Scan# 2347
 Delta R.T. -0.006 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

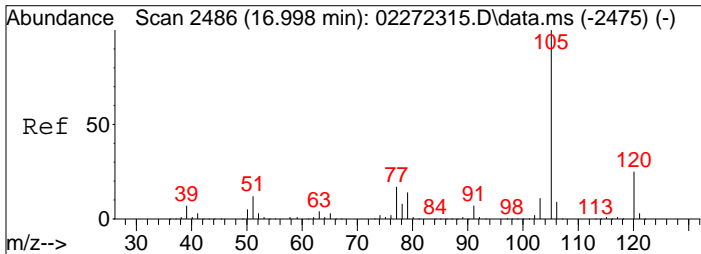
Tgt Ion	Resp	Lower	Upper
91	100		
106	44.7	24.0	64.0



#71
 n-Nonane
 Concen: 0.59 ng
 RT: 16.58 min Scan# 2412
 Delta R.T. -0.000 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

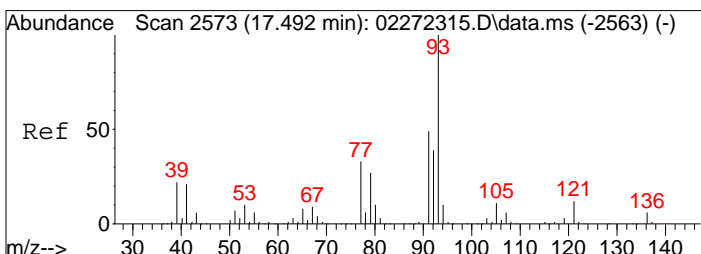
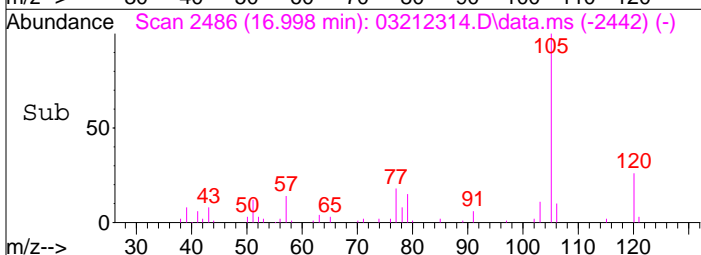
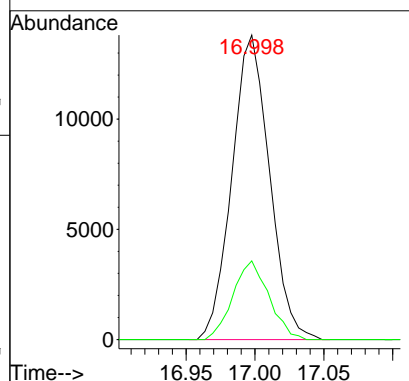
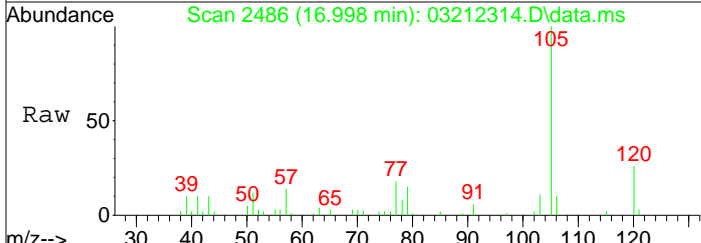
Tgt Ion	Resp	Lower	Upper
43	100		
57	79.2	56.2	96.2
85	25.7	6.1	46.1





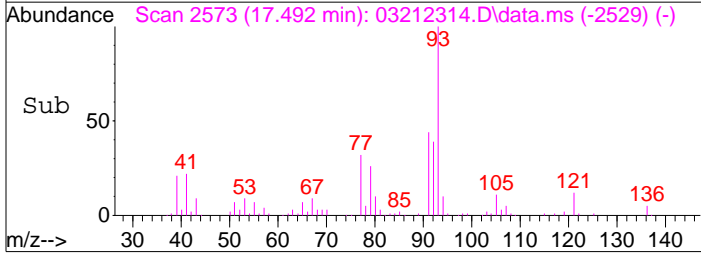
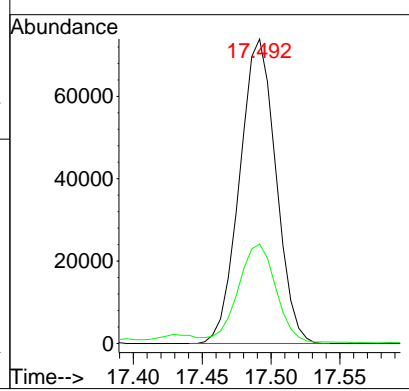
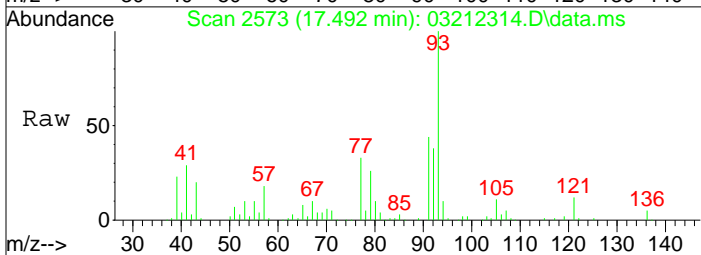
#74
 Cumene
 Concen: 0.33 ng
 RT: 17.00 min Scan# 2486
 Delta R.T. -0.000 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

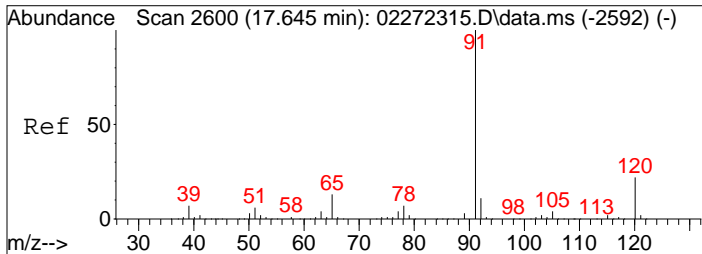
Tgt Ion	Resp	Lower	Upper
105	100		
120	24.7	4.6	44.6



#75
 alpha-Pinene
 Concen: 3.98 ng
 RT: 17.49 min Scan# 2573
 Delta R.T. -0.000 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

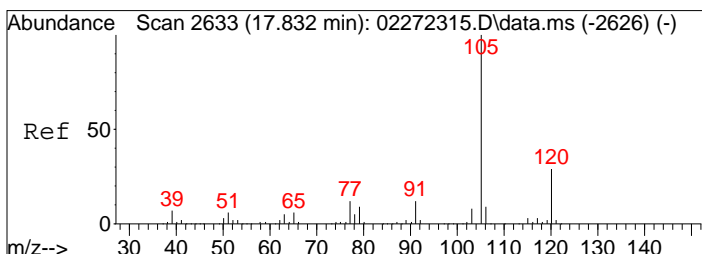
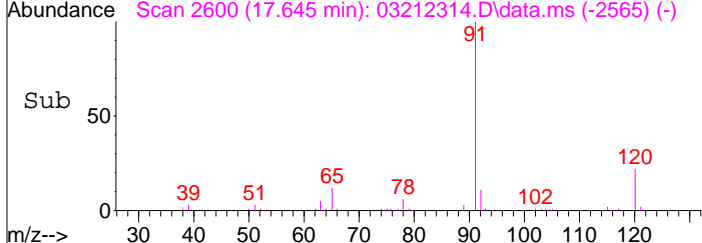
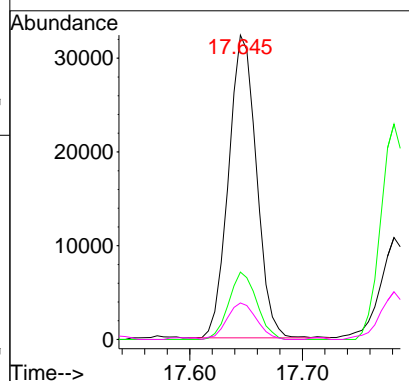
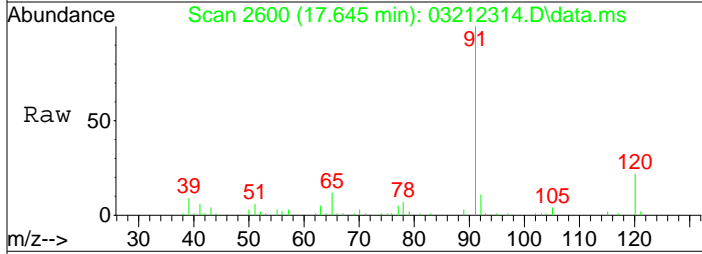
Tgt Ion	Resp	Lower	Upper
93	100		
77	34.3	14.2	54.2





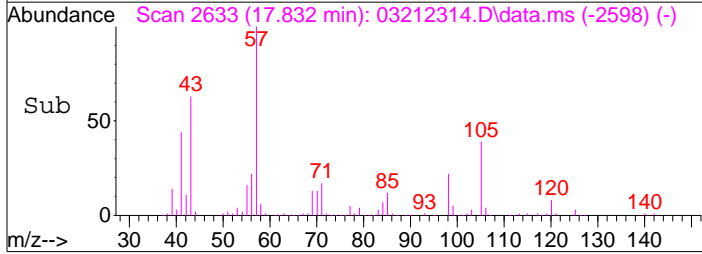
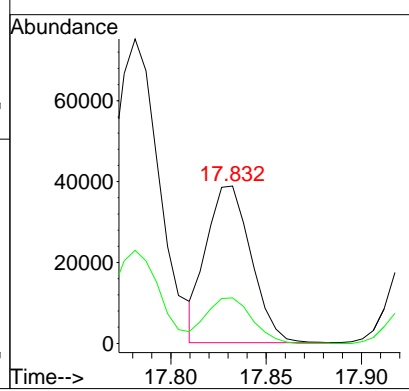
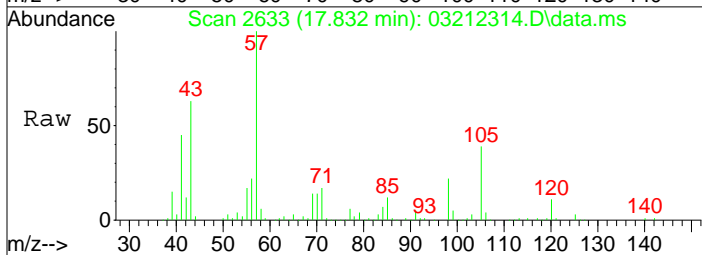
#76
 n-Propylbenzene
 Concen: 0.58 ng
 RT: 17.64 min Scan# 2600
 Delta R.T. -0.000 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

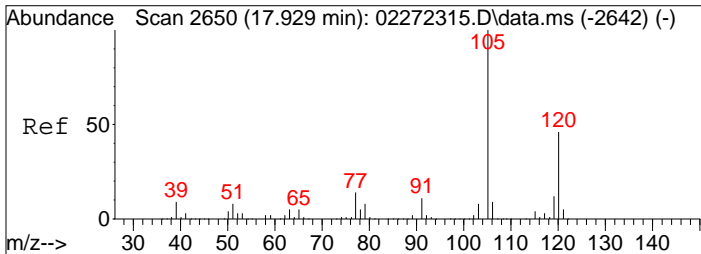
Tgt Ion:	Resp:	Lower	Upper
91	55489		
120	22.3	2.0	42.0
65	12.8	0.0	32.3



#78
 4-Ethyltoluene
 Concen: 0.83 ng
 RT: 17.83 min Scan# 2633
 Delta R.T. -0.000 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

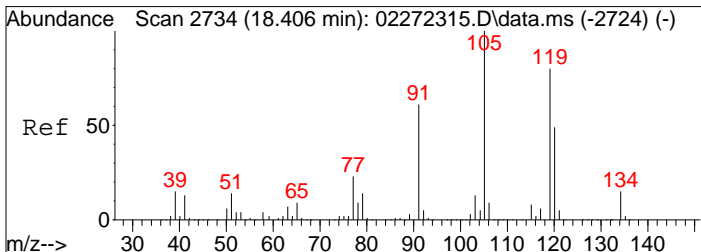
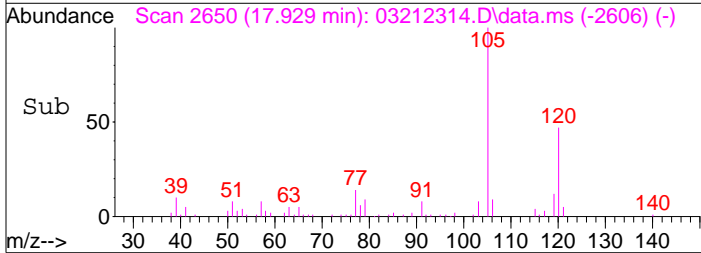
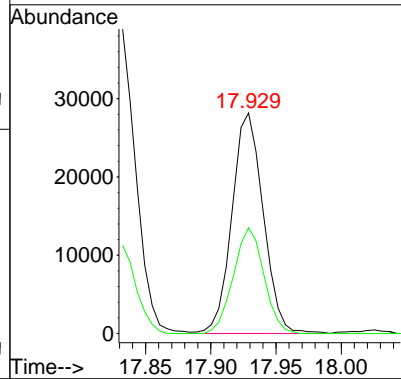
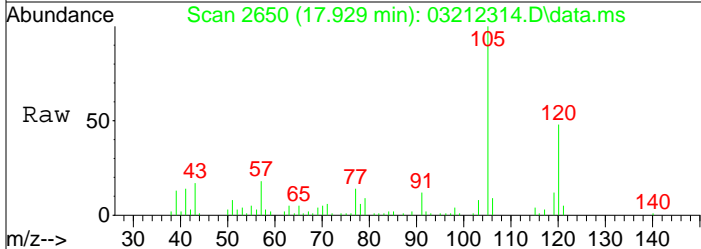
Tgt Ion:	Resp:	Lower	Upper
105	63240		
120	29.7	8.5	48.5





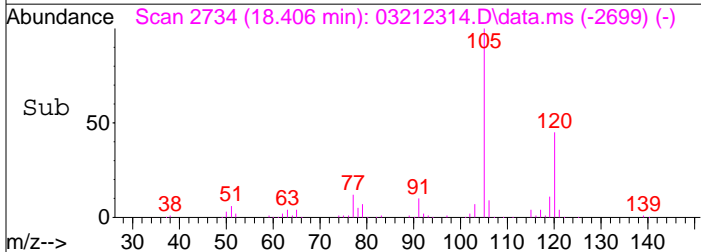
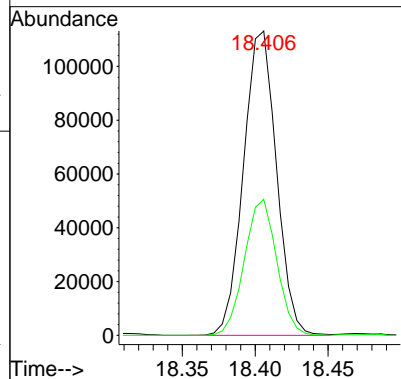
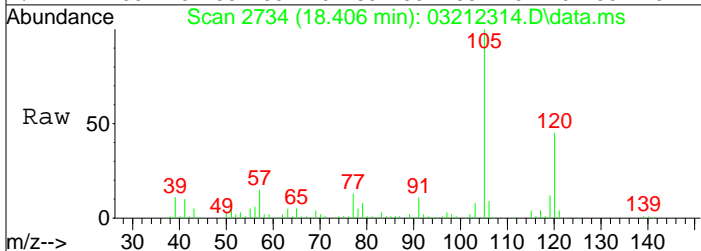
#79
 1,3,5-Trimethylbenzene
 Concen: 0.69 ng
 RT: 17.93 min Scan# 2650
 Delta R.T. -0.000 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

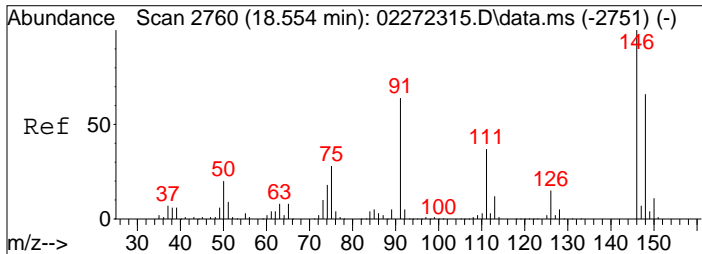
Tgt Ion	Resp	Lower	Upper
105	100		
120	46.6	25.5	65.5



#82
 1,2,4-Trimethylbenzene
 Concen: 2.56 ng
 RT: 18.41 min Scan# 2734
 Delta R.T. -0.000 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

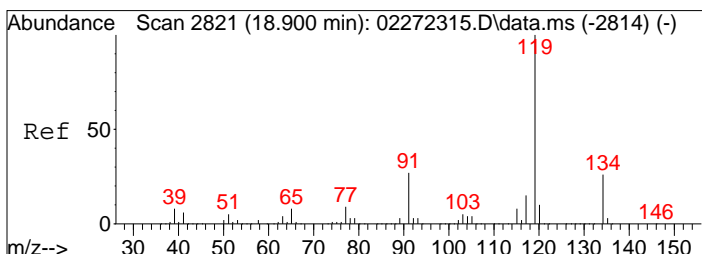
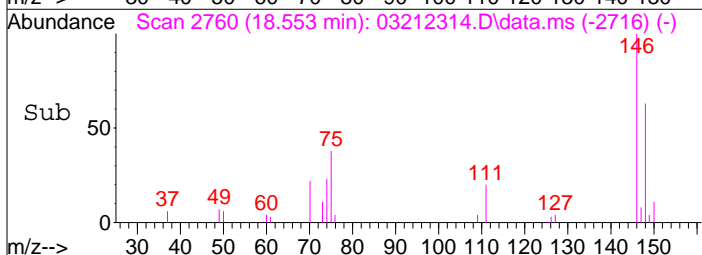
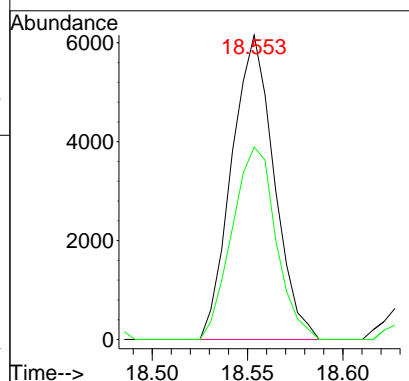
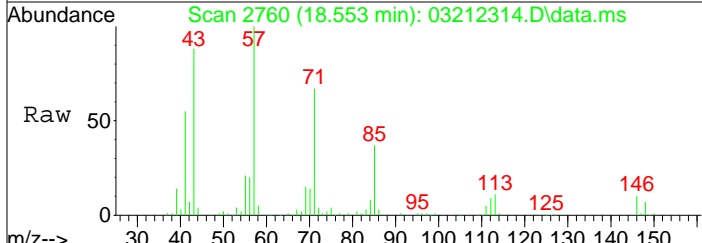
Tgt Ion	Resp	Lower	Upper
105	100		
120	43.8	30.5	70.5





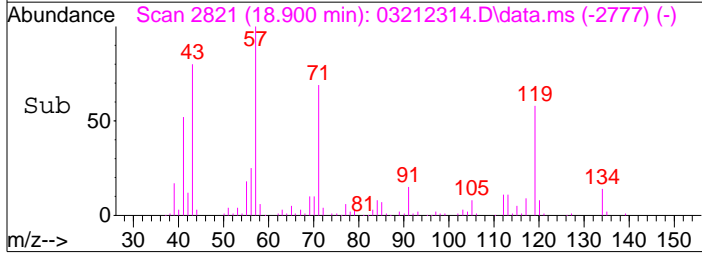
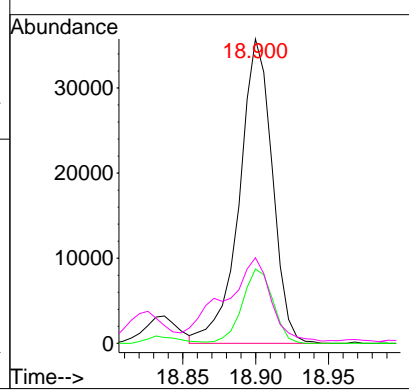
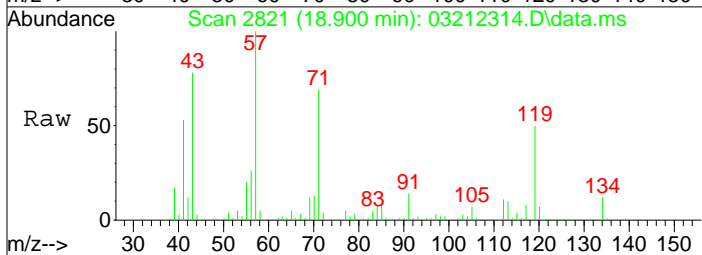
#85
 1,3-Dichlorobenzene
 Concen: 0.24 ng
 RT: 18.55 min Scan# 2760
 Delta R.T. -0.000 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

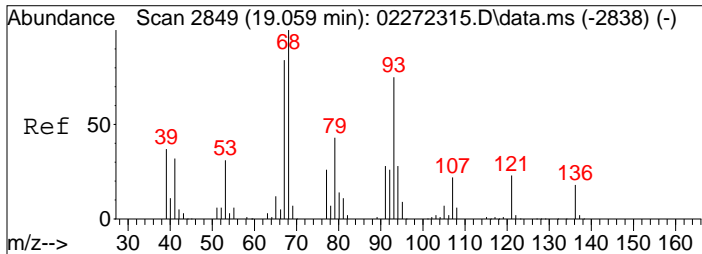
Tgt Ion	Resp	Lower	Upper
146	100		
148	65.5	46.0	86.0



#88
 4-Isopropyltoluene (p-Cymene)
 Concen: 0.71 ng
 RT: 18.90 min Scan# 2821
 Delta R.T. -0.000 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

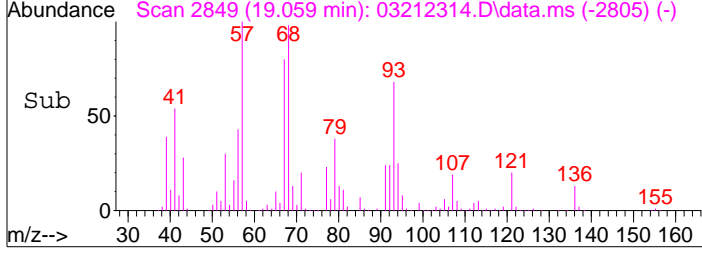
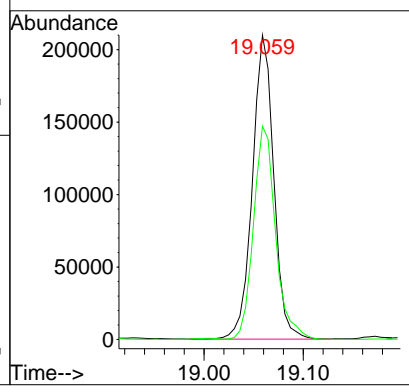
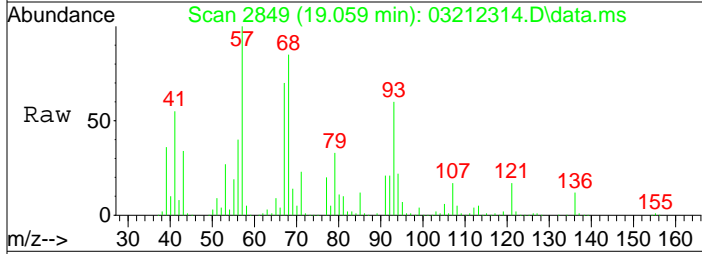
Tgt Ion	Resp	Lower	Upper
119	100		
134	22.8	5.7	45.7
91	39.0	6.8	46.8





#91
 d-Limonene
 Concen: 13.47 ng
 RT: 19.06 min Scan# 2849
 Delta R.T. -0.000 min
 Lab File: 03212314.D
 Acq: 21 Mar 2023 12:21

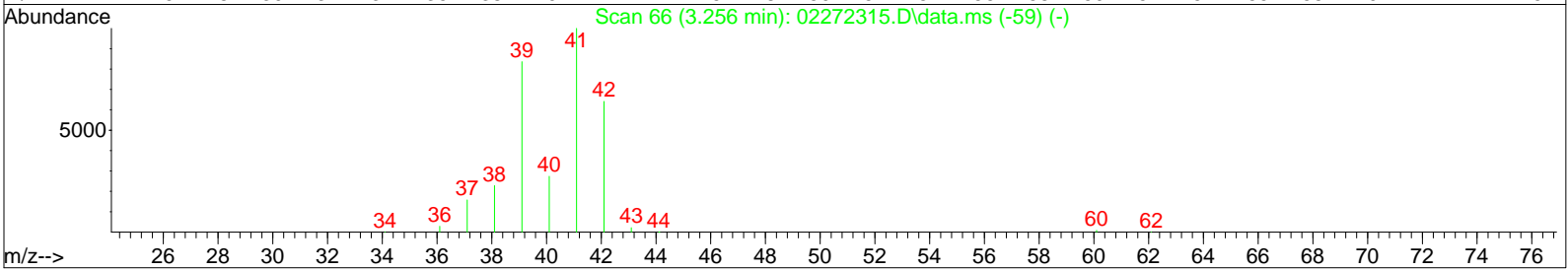
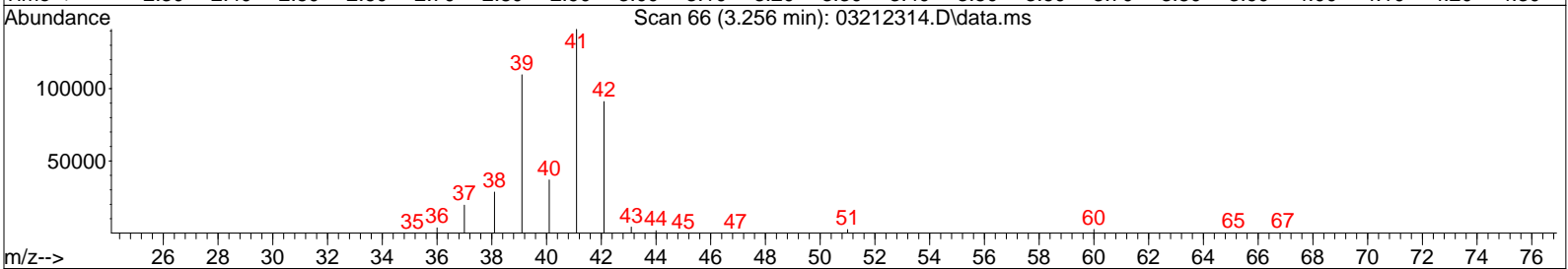
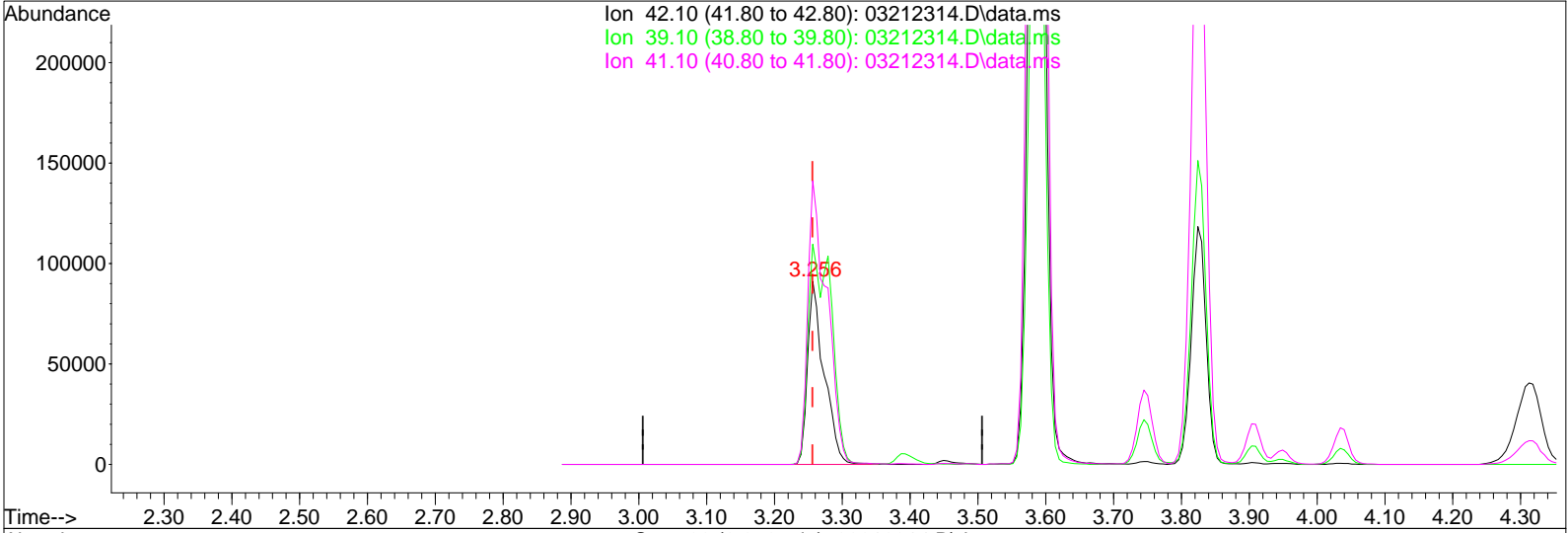
Tgt Ion	Resp	Lower	Upper
68	100		
93	72.6	55.7	95.7



Data File : I:\MS09\DATA\2023 03\21\03212314.D
 Acq On : 21 Mar 2023 12:21
 Sample : P2301184-007 (300ml)
 Misc : S35-02212305

Vial: 10
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 21 12:42:44 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



TIC: 03212314.D\data.ms

(2) Propene (T)

3.256min (+0.000) 6.85ng

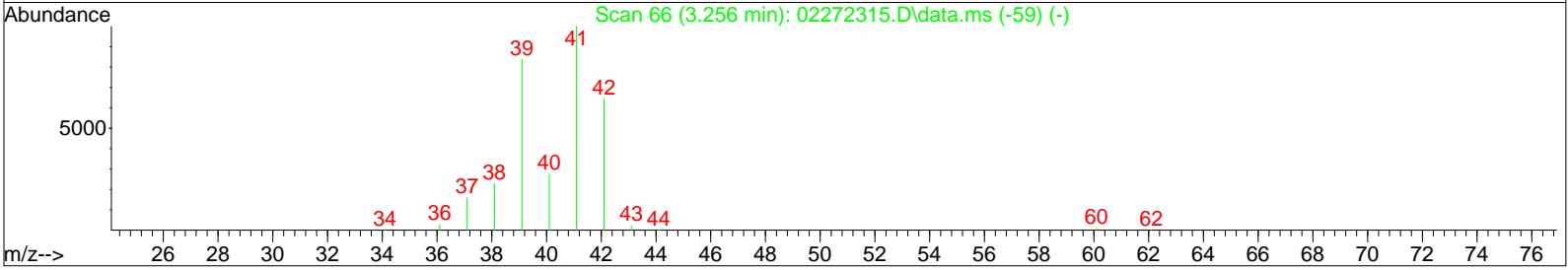
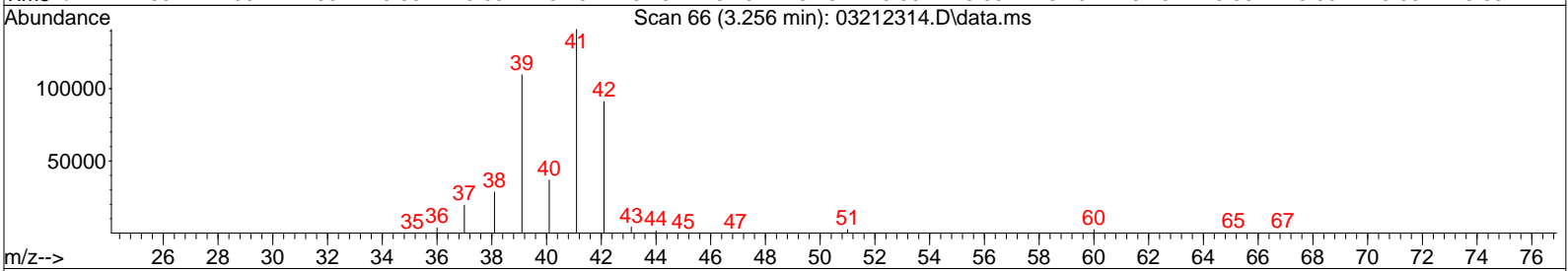
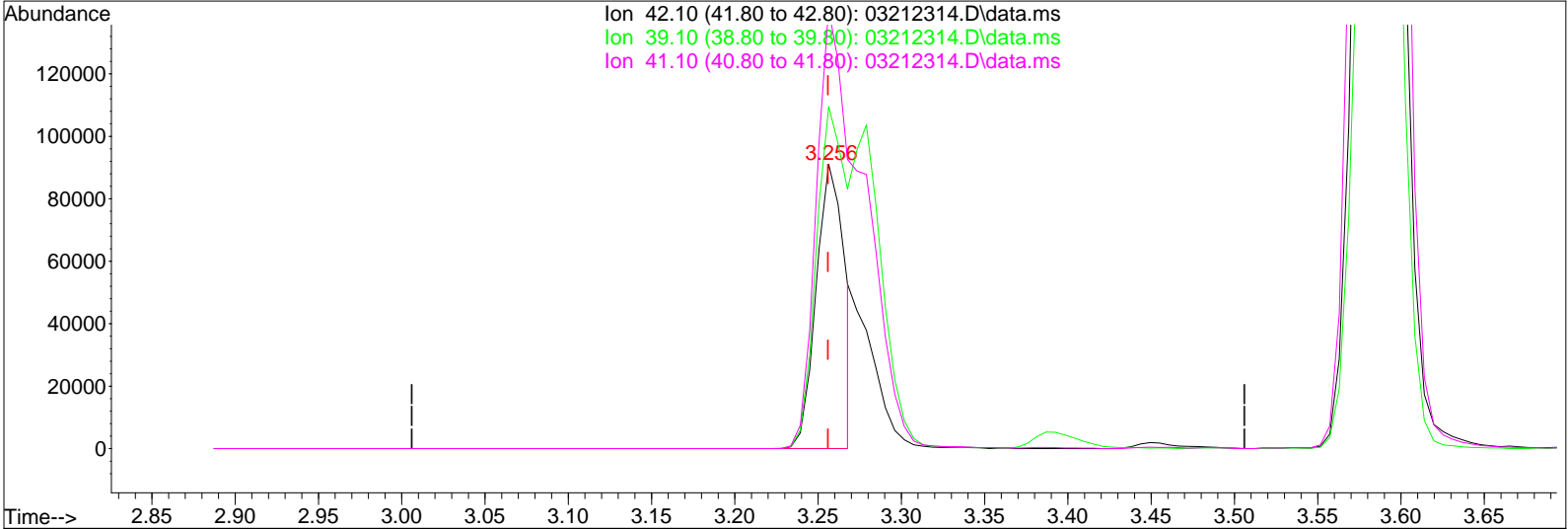
response 153821

Ion	Exp%	Act%
42.10	100	100
39.10	130.00	170.10#
41.10	155.80	179.78#
0.00	0.00	0.00

Data File : I:\MS09\DATA\2023 03\21\03212314.D
 Acq On : 21 Mar 2023 12:21
 Sample : P2301184-007 (300ml)
 Misc : S35-02212305

Vial: 10
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 21 12:42:44 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



TIC: 03212314.D\data.ms

(2) Propene (T)

3.256min (+0.000) 4.81ng m

IPC

response 108050

ISA 3/21/23

TZ 3/22/23

Ion	Exp%	Act%
42.10	100	100
39.10	130.00	127.89
41.10	155.80	158.53
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: New York State DEC
Client Sample ID: Building-3-IA-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-008

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS00369

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21 - 3/22/23
 Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -1.22 Final Pressure (psig): 4.34

Canister Dilution Factor: 1.41

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	5.8	0.75	3.4	0.43	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	0.75	0.45	0.15	
74-87-3	Chloromethane	0.64	0.30	0.31	0.14	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.73	ND	0.10	
75-01-4	Vinyl Chloride	ND	0.16	ND	0.061	
106-99-0	1,3-Butadiene	ND	0.30	ND	0.13	
74-83-9	Bromomethane	ND	0.30	ND	0.076	
75-00-3	Chloroethane	ND	0.30	ND	0.11	
64-17-5	Ethanol	880	35	470	19	D
75-05-8	Acetonitrile	ND	1.4	ND	0.84	
107-02-8	Acrolein	ND	1.4	ND	0.62	
67-64-1	Acetone	31	7.4	13	3.1	
75-69-4	Trichlorofluoromethane (CFC 11)	1.8	0.73	0.32	0.13	
67-63-0	2-Propanol (Isopropyl Alcohol)	17	1.4	7.0	0.59	
107-13-1	Acrylonitrile	ND	1.4	ND	0.65	
75-35-4	1,1-Dichloroethene	ND	0.16	ND	0.039	
75-09-2	Methylene Chloride	0.79	0.75	0.23	0.22	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.75	ND	0.24	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.76	ND	0.099	
75-15-0	Carbon Disulfide	ND	1.5	ND	0.48	
156-60-5	trans-1,2-Dichloroethene	ND	0.16	ND	0.039	
75-34-3	1,1-Dichloroethane	ND	0.16	ND	0.038	
1634-04-4	Methyl tert-Butyl Ether	ND	0.76	ND	0.21	
108-05-4	Vinyl Acetate	ND	7.1	ND	2.0	
78-93-3	2-Butanone (MEK)	3.0	1.5	1.0	0.50	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: New York State DEC
Client Sample ID: Building-3-IA-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-008

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS00369

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21 - 3/22/23
 Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -1.22 Final Pressure (psig): 4.34

Canister Dilution Factor: 1.41

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.16	ND	0.039	
141-78-6	Ethyl Acetate	18	3.0	5.1	0.82	
110-54-3	n-Hexane	3.1	0.75	0.88	0.21	
67-66-3	Chloroform	1.2	0.16	0.26	0.032	
109-99-9	Tetrahydrofuran (THF)	2.1	0.71	0.70	0.24	
107-06-2	1,2-Dichloroethane	0.19	0.16	0.046	0.038	
71-55-6	1,1,1-Trichloroethane	ND	0.16	ND	0.028	
71-43-2	Benzene	1.3	0.16	0.40	0.049	
56-23-5	Carbon Tetrachloride	0.51	0.16	0.081	0.025	
110-82-7	Cyclohexane	ND	1.5	ND	0.43	
78-87-5	1,2-Dichloropropane	0.38	0.16	0.081	0.034	
75-27-4	Bromodichloromethane	0.22	0.16	0.032	0.023	
79-01-6	Trichloroethene	ND	0.16	ND	0.029	
123-91-1	1,4-Dioxane	ND	0.75	ND	0.21	
80-62-6	Methyl Methacrylate	ND	1.6	ND	0.38	
142-82-5	n-Heptane	0.83	0.75	0.20	0.18	
10061-01-5	cis-1,3-Dichloropropene	ND	0.76	ND	0.17	
108-10-1	4-Methyl-2-pentanone	ND	1.6	ND	0.38	
10061-02-6	trans-1,3-Dichloropropene	ND	0.72	ND	0.16	
79-00-5	1,1,2-Trichloroethane	ND	0.16	ND	0.028	
108-88-3	Toluene	17	0.75	4.4	0.20	
591-78-6	2-Hexanone	ND	1.6	ND	0.38	
124-48-1	Dibromochloromethane	ND	0.16	ND	0.018	
106-93-4	1,2-Dibromoethane	ND	0.16	ND	0.020	
123-86-4	n-Butyl Acetate	ND	1.4	ND	0.30	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3 of 3

Client: New York State DEC
Client Sample ID: Building-3-IA-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-008

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS00369

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21 - 3/22/23
 Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -1.22 Final Pressure (psig): 4.34

Canister Dilution Factor: 1.41

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	1.0	0.76	0.22	0.16	
127-18-4	Tetrachloroethene	ND	0.16	ND	0.023	
108-90-7	Chlorobenzene	ND	0.75	ND	0.16	
100-41-4	Ethylbenzene	1.3	0.75	0.30	0.17	
179601-23-1	m,p-Xylenes	3.9	1.6	0.90	0.36	
75-25-2	Bromoform	ND	0.76	ND	0.074	
100-42-5	Styrene	ND	0.75	ND	0.18	
95-47-6	o-Xylene	1.5	0.75	0.36	0.17	
111-84-2	n-Nonane	1.8	0.75	0.34	0.14	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	ND	0.023	
98-82-8	Cumene	ND	0.76	ND	0.15	
80-56-8	alpha-Pinene	10	1.6	1.9	0.28	
103-65-1	n-Propylbenzene	ND	0.76	ND	0.15	
622-96-8	4-Ethyltoluene	ND	0.78	ND	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND	0.75	ND	0.15	
95-63-6	1,2,4-Trimethylbenzene	ND	0.75	ND	0.15	
100-44-7	Benzyl Chloride	ND	3.0	ND	0.58	
541-73-1	1,3-Dichlorobenzene	ND	0.75	ND	0.12	
106-46-7	1,4-Dichlorobenzene	ND	0.75	ND	0.12	
95-50-1	1,2-Dichlorobenzene	ND	0.76	ND	0.13	
5989-27-5	d-Limonene	29	1.6	5.3	0.28	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.6	ND	0.16	
120-82-1	1,2,4-Trichlorobenzene	ND	1.6	ND	0.21	
91-20-3	Naphthalene	ND	0.78	ND	0.15	
87-68-3	Hexachlorobutadiene	ND	0.75	ND	0.070	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Data File : I:\MS09\DATA\2023 03\21\03212319.D
 Acq On : 21 Mar 2023 16:15
 Sample : P2301184-008 (1000ml)
 Misc : S35-02212305

Vial: 11
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 22 04:50:50 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

IDA 3/22/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	7.21	130	166120	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	9.27	114	746963	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.81	54	169727	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.97	65	356453	12.675	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery	=	101.36%	
57) Toluene-d8 (SS2)	12.39	98	886843	13.751	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	110.00%	
73) Bromofluorobenzene (SS3)	16.79	174	274133	10.424	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	83.36%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.26	42	90352	4.089	ng	# 86
3) Dichlorodifluoromethan...	3.33	85	60318	1.573	ng	99
4) Chloromethane	3.48	50	10874	0.451	ng	94
5) 1,2-Dichloro-1,1,2,2-t...	3.59	135	1045	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	3.74	54	500	N.D.		
8) Bromomethane	4.00	94	749	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	4.37	45	8845465	561.118	ng	99
11) Acetonitrile	0.00	41	0	N.D.	d	
12) Acrolein	4.52	56	7395	0.704	ng	95
13) Acetone	4.61	58	260552	21.811	ng	# 67
14) Trichlorofluoromethane	4.73	101	48139	1.259	ng	99
15) 2-Propanol (Isopropanol)	4.91	45	564910m	12.113	ng	
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	5.33	84	8803	0.558	ng	97
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	5.56	151	4791	0.277	ng	# 79
22) Carbon Disulfide	5.58	76	15118	0.263	ng	97
23) trans-1,2-Dichloroethene	6.11	61	169	N.D.		
24) 1,1-Dichloroethane	6.34	63	153	N.D.		
25) Methyl tert-Butyl Ether	6.37	73	670	N.D.		
26) Vinyl Acetate	6.41	86	6838	2.954	ng	# 1
27) 2-Butanone (MEK)	6.65	72	20155	2.117	ng	# 88
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	7.25	61	95864	13.095	ng	100
31) n-Hexane	7.27	57	67117	2.208	ng	96
32) Chloroform	7.33	83	29516	0.885	ng	100
34) Tetrahydrofuran (THF)	7.74	72	14040	1.472	ng	# 84
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.09	62	3814	0.132	ng	99
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	8.81	56	27498	No Calib		#
41) Benzene	8.87	78	58353	0.915	ng	99
42) Carbon Tetrachloride	9.03	117	10107	0.360	ng	100
43) Cyclohexane	9.18	84	16107	0.679	ng	95
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	9.83	63	4794	0.267	ng	95
46) Bromodichloromethane	10.05	83	4069	0.154	ng	85
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	10.13	88	586	N.D.		
49) 2,2,4-Trimethylpentane...	10.20	57	61597	0.790	ng	99
50) Methyl Methacrylate	0.00	100	0	N.D.	d	

Data File : I:\MS09\DATA\2023 03\21\03212319.D
 Acq On : 21 Mar 2023 16:15
 Sample : P2301184-008 (1000ml)
 Misc : S35-02212305

Vial: 11
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 22 04:50:50 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

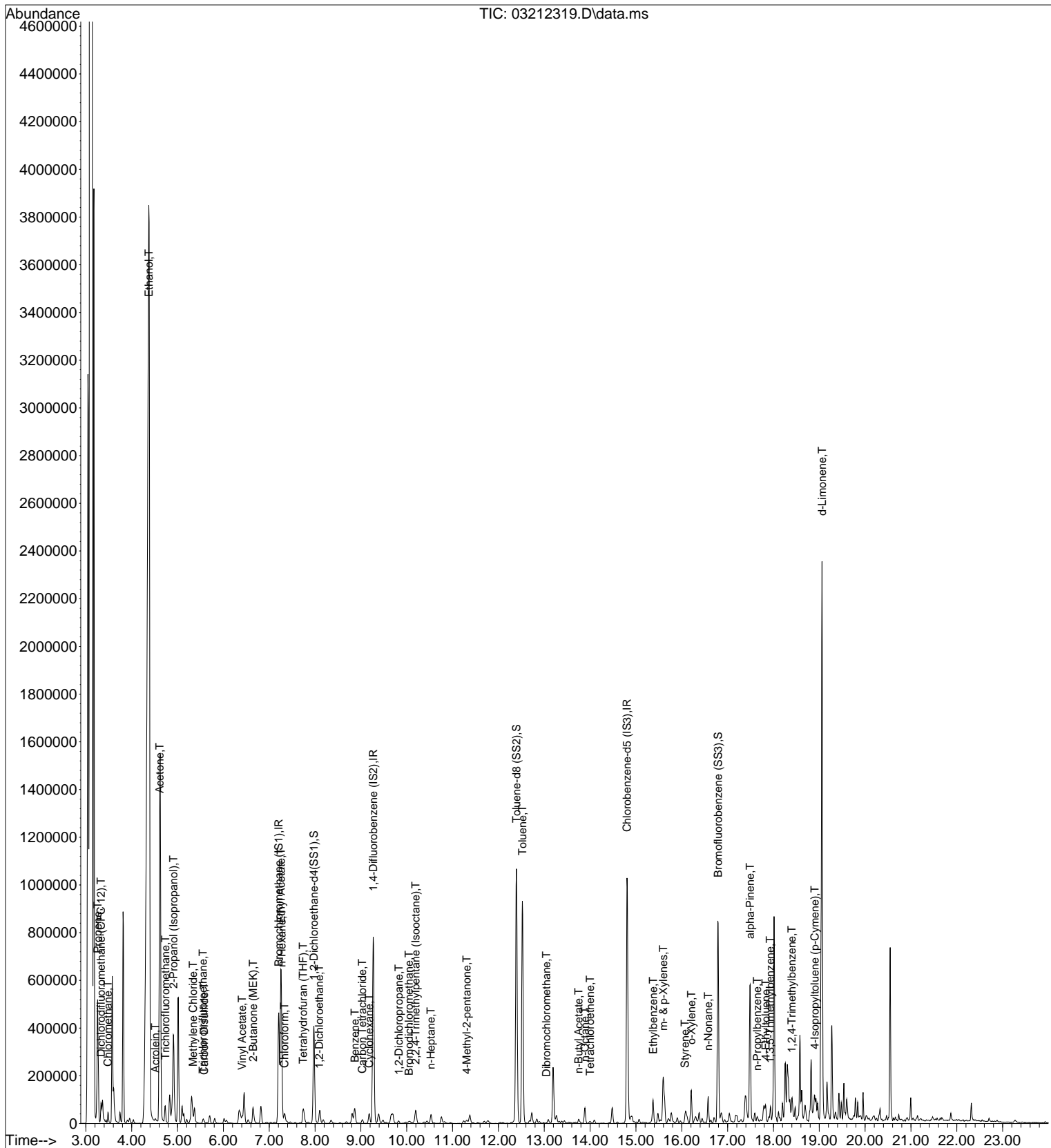
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
51) n-Heptane	10.52	71	9341	0.588	ng	96
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.31	58	4143	0.265	ng #	63
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.52	91	803670	11.704	ng	97
59) 2-Hexanone	0.00	43	0	N.D.	d	
60) Dibromochloromethane	13.05	129	1995	0.095	ng	88
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.75	43	18561	0.387	ng	97
63) n-Octane	13.89	57	11072	0.739	ng	92
64) Tetrachloroethene	14.00	166	2258	0.095	ng	94
65) Chlorobenzene	14.87	112	905	N.D.		
66) Ethylbenzene	15.37	91	72668	0.923	ng	100
67) m- & p-Xylenes	15.60	91	178543	2.763	ng	96
68) Bromoform	15.65	173	385	N.D.		
69) Styrene	16.07	104	11119	0.273	ng	97
70) o-Xylene	16.21	91	69857	1.097	ng	98
71) n-Nonane	16.58	43	50604	1.259	ng	99
72) 1,1,2,2-Tetrachloroethane	16.20	83	1061	N.D.		
74) Cumene	17.00	105	5651	N.D.		
75) alpha-Pinene	17.49	93	243699	7.366	ng	99
76) n-Propylbenzene	17.64	91	12720	0.135	ng	96
77) 3-Ethyltoluene	17.00	105	5651	No Calib		
78) 4-Ethyltoluene	17.83	105	13210	0.178	ng	100
79) 1,3,5-Trimethylbenzene	17.93	105	11055	0.166	ng	99
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.00	105	5651	No Calib		
82) 1,2,4-Trimethylbenzene	18.40	105	35841	0.529	ng	88
83) n-Decane	17.03	58	1127	No Calib	#	
84) Benzyl Chloride	18.54	91	300	N.D.		
85) 1,3-Dichlorobenzene	18.56	146	415	N.D.		
86) 1,4-Dichlorobenzene	18.63	146	568	N.D.		
87) sec-Butylbenzene	18.71	105	1641	N.D.		
88) 4-Isopropyltoluene (p-...	18.90	119	37181	0.483	ng	92
89) 1,2,3-Trimethylbenzene	17.00	105	5651	No Calib		
90) 1,2-Dichlorobenzene	19.01	146	130	N.D.		
91) d-Limonene	19.06	68	473101	20.854	ng	98
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.10	58	1344	No Calib		
94) 1,2,4-Trichlorobenzene	20.82	180	157	N.D.		
95) Naphthalene	20.93	128	1648	N.D.		
96) n-Dodecane	19.04	58	19306	No Calib	#	
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	15.21	55	1035	No Calib	#	
99) tert-Butylbenzene	18.40	119	4510	N.D.		
100) n-Butylbenzene	19.36	91	3661	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\21\03212319.D
 Acq On : 21 Mar 2023 16:15
 Sample : P2301184-008 (1000ml)
 Misc : S35-02212305

Vial: 11
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 22 04:50:50 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2023 03\21\03212319.D
 Acq On : 21 Mar 2023 16:15
 Sample : P2301184-008 (1000ml)
 Misc : S35-02212305

Vial: 11
 Operator: WA/SR
 Inst : MS09

40A 3/22/23

Quant Time: Mar 22 04:50:50 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	7.21	130	166120	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	9.27	114	746963	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.81	54	169727	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.97	65	356453	12.675	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery	=	101.36%	
57) Toluene-d8 (SS2)	12.39	98	886843	13.751	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	110.00%	
73) Bromofluorobenzene (SS3)	16.79	174	274133	10.424	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	83.36%	

Target Compounds

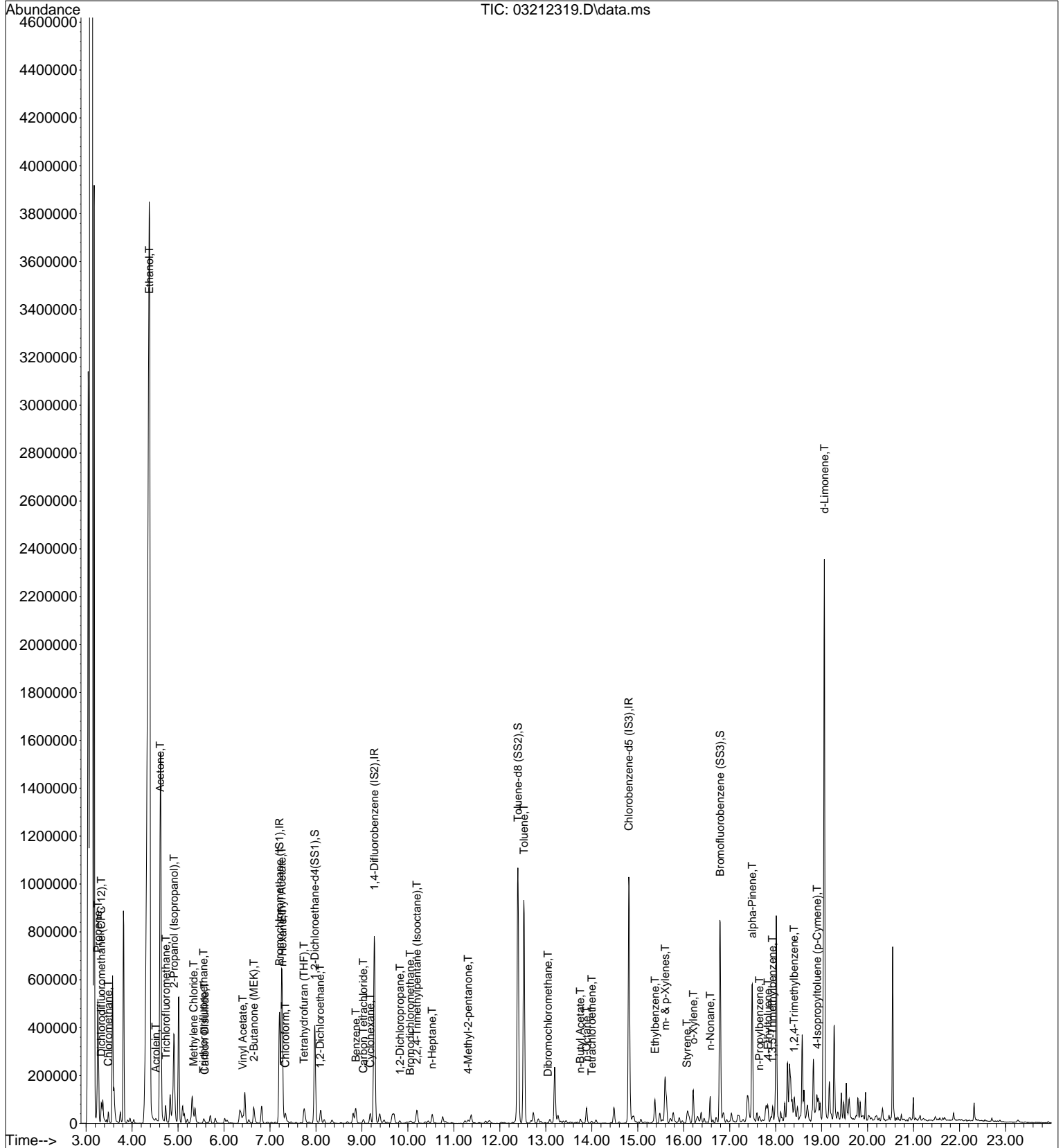
						Qvalue
2) Propene	3.26	42	90352	4.089	ng	# 86
3) Dichlorodifluoromethan...	3.33	85	60318	1.573	ng	99
4) Chloromethane	3.48	50	10874	0.451	ng	94
10) Ethanol	4.37	45	8845465	561.118	ng	99
12) Acrolein	4.52	56	7395	0.704	ng	95
13) Acetone	4.61	58	260552	21.811	ng	# 67
14) Trichlorofluoromethane	4.73	101	48139	1.259	ng	99
15) 2-Propanol (Isopropanol)	4.91	45	564910m	12.113	ng	
19) Methylene Chloride	5.33	84	8803	0.558	ng	97
21) Trichlorotrifluoroethane	5.56	151	4791	0.277	ng	# 79
22) Carbon Disulfide	5.58	76	15118	0.263	ng	97
26) Vinyl Acetate	6.41	86	6838	2.954	ng	# 1
27) 2-Butanone (MEK)	6.65	72	20155	2.117	ng	# 88
30) Ethyl Acetate	7.25	61	95864	13.095	ng	100
31) n-Hexane	7.27	57	67117	2.208	ng	96
32) Chloroform	7.33	83	29516	0.885	ng	100
34) Tetrahydrofuran (THF)	7.74	72	14040	1.472	ng	# 84
36) 1,2-Dichloroethane	8.09	62	3814	0.132	ng	99
41) Benzene	8.87	78	58353	0.915	ng	99
42) Carbon Tetrachloride	9.03	117	10107	0.360	ng	100
43) Cyclohexane	9.18	84	16107	0.679	ng	95
45) 1,2-Dichloropropane	9.83	63	4794	0.267	ng	95
46) Bromodichloromethane	10.05	83	4069	0.154	ng	85
49) 2,2,4-Trimethylpentane...	10.20	57	61597	0.790	ng	99
51) n-Heptane	10.52	71	9341	0.588	ng	96
53) 4-Methyl-2-pentanone	11.31	58	4143	0.265	ng	# 63
58) Toluene	12.52	91	803670	11.704	ng	97
60) Dibromochloromethane	13.05	129	1995	0.095	ng	88
62) n-Butyl Acetate	13.75	43	18561	0.387	ng	97
63) n-Octane	13.89	57	11072	0.739	ng	92
64) Tetrachloroethene	14.00	166	2258	0.095	ng	94
66) Ethylbenzene	15.37	91	72668	0.923	ng	100
67) m- & p-Xylenes	15.60	91	178543	2.763	ng	96
69) Styrene	16.07	104	11119	0.273	ng	97
70) o-Xylene	16.21	91	69857	1.097	ng	98
71) n-Nonane	16.58	43	50604	1.259	ng	99
75) alpha-Pinene	17.49	93	243699	7.366	ng	99
76) n-Propylbenzene	17.64	91	12720	0.135	ng	96
78) 4-Ethyltoluene	17.83	105	13210	0.178	ng	100
79) 1,3,5-Trimethylbenzene	17.93	105	11055	0.166	ng	99
82) 1,2,4-Trimethylbenzene	18.40	105	35841	0.529	ng	88
88) 4-Isopropyltoluene (p-...	18.90	119	37181	0.483	ng	92
91) d-Limonene	19.06	68	473101	20.854	ng	98

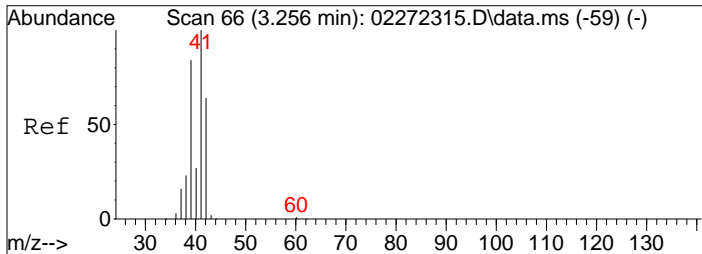
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS09\DATA\2023 03\21\03212319.D
 Acq On : 21 Mar 2023 16:15
 Sample : P2301184-008 (1000ml)
 Misc : S35-02212305

Vial: 11
 Operator: WA/SR
 Inst : MS09

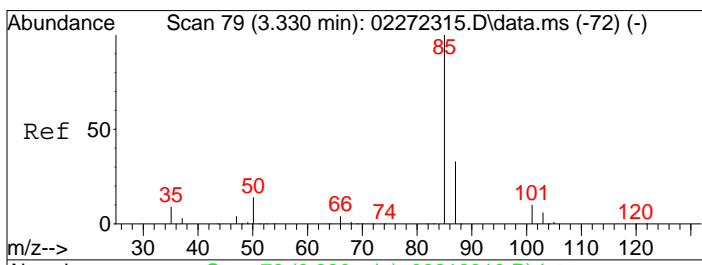
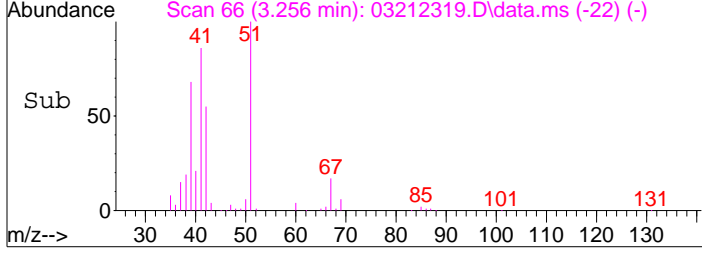
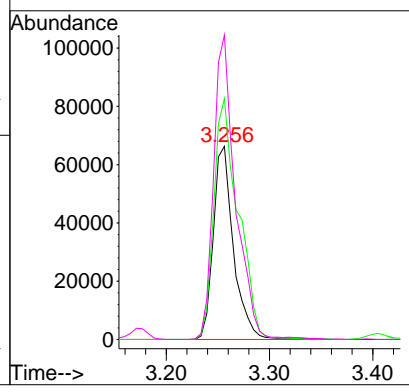
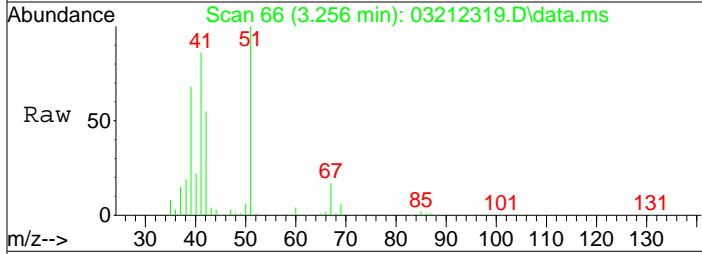
Quant Time: Mar 22 04:50:50 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M





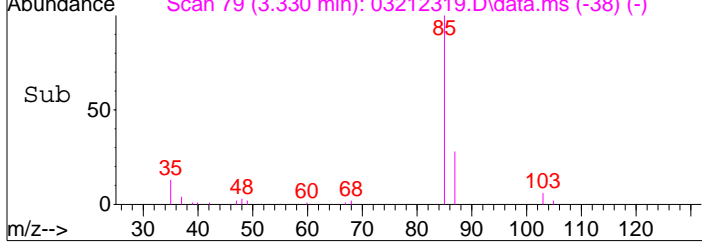
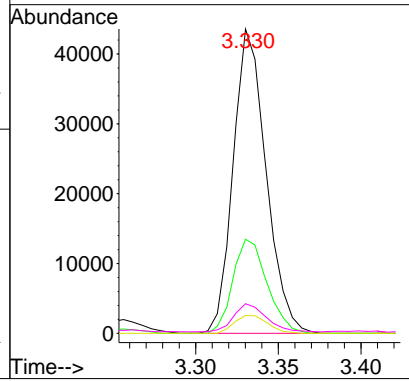
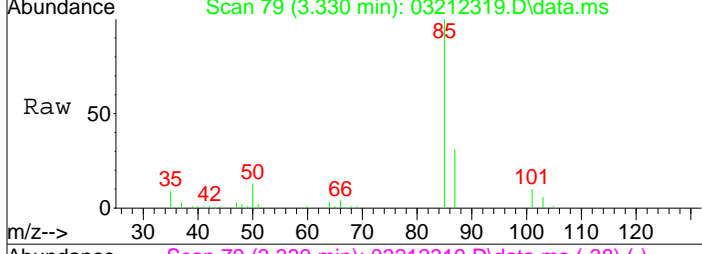
#2
 Propene
 Concen: 4.09 ng
 RT: 3.26 min Scan# 66
 Delta R.T. -0.000 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

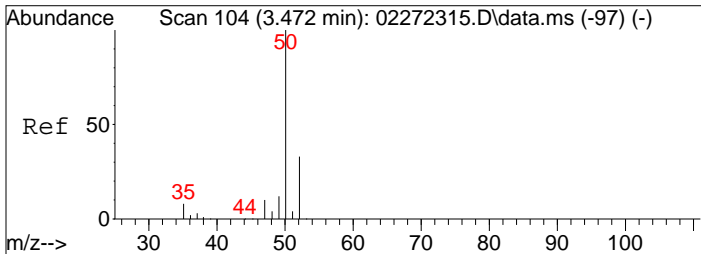
Tgt Ion:	Resp:	Lower	Upper
42	90352		
42	100		
39	151.2	110.0	150.0#
41	170.1	135.8	175.8



#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.57 ng
 RT: 3.33 min Scan# 79
 Delta R.T. -0.020 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

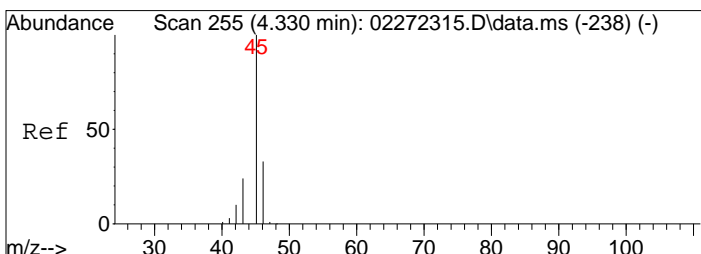
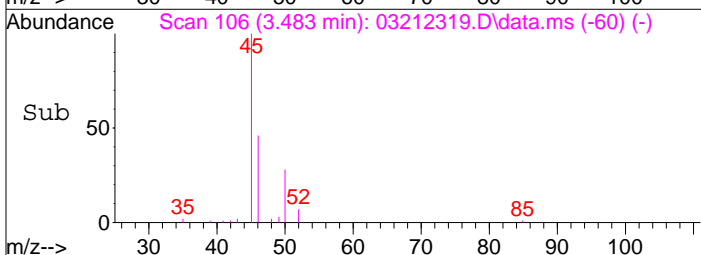
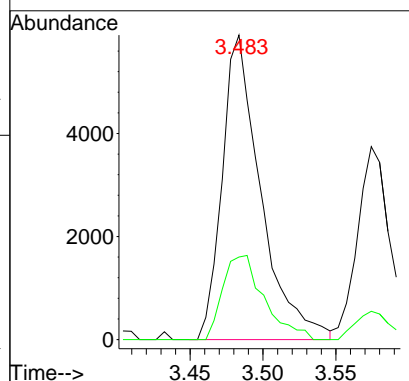
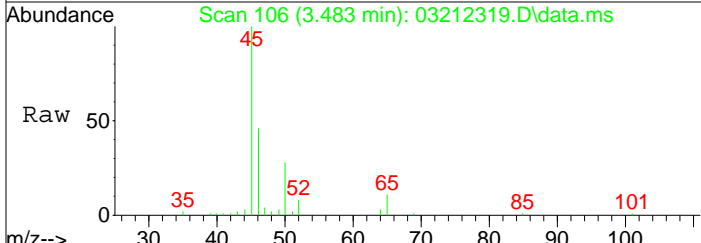
Tgt Ion:	Resp:	Lower	Upper
85	60318		
85	100		
87	32.2	12.3	52.3
101	9.1	0.0	29.7
103	6.0	0.0	26.3





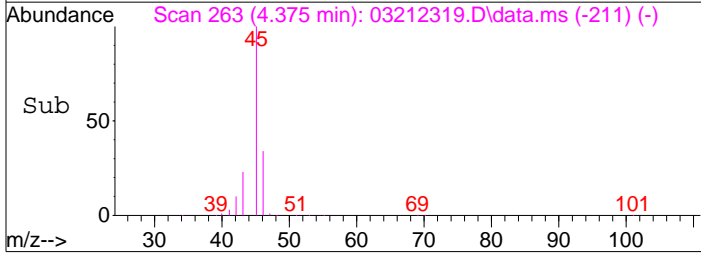
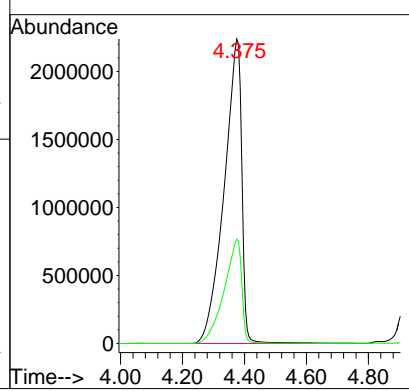
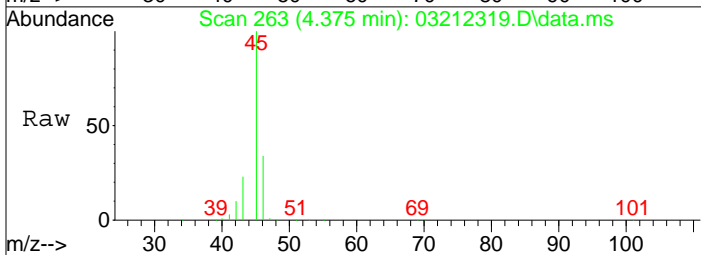
#4
 Chloromethane
 Concen: 0.45 ng
 RT: 3.48 min Scan# 106
 Delta R.T. 0.011 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

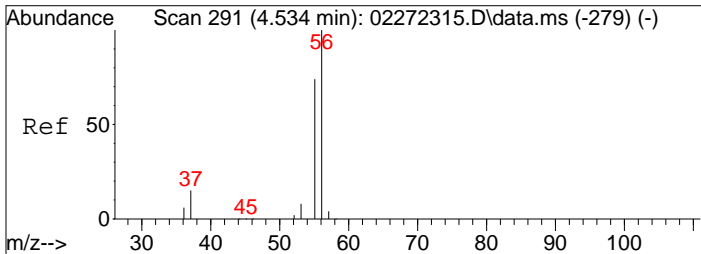
Tgt Ion	Resp	Lower	Upper
50	10874		
52	29.5	12.8	52.8



#10
 Ethanol
 Concen: 561.12 ng
 RT: 4.37 min Scan# 263
 Delta R.T. 0.045 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

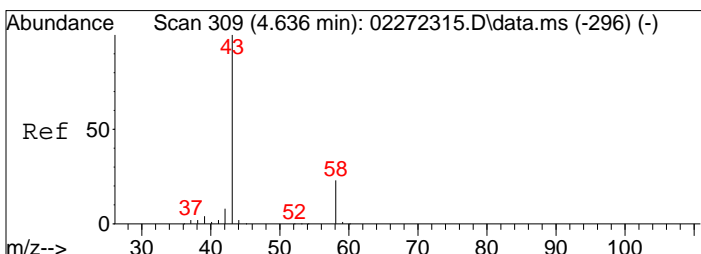
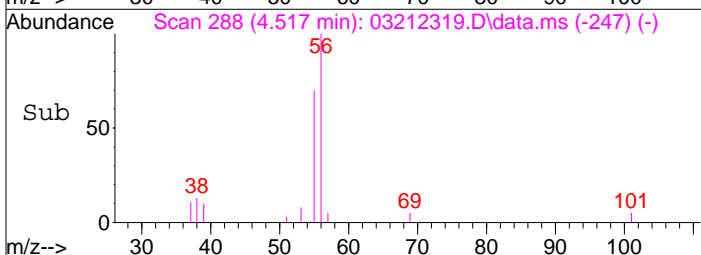
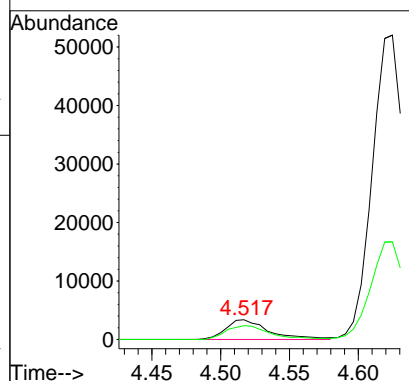
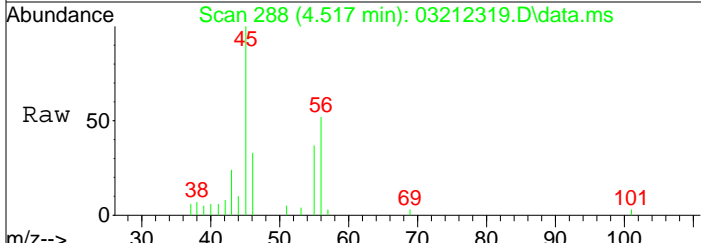
Tgt Ion	Resp	Lower	Upper
45	8845465		
46	34.1	13.4	53.4





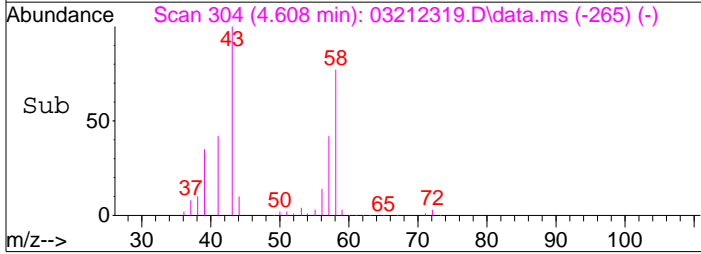
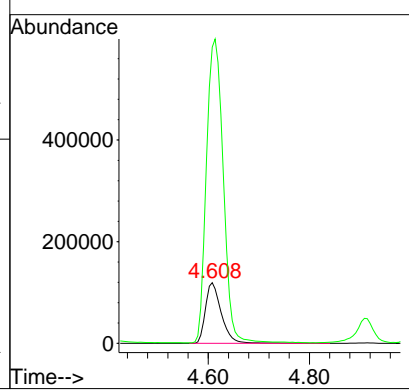
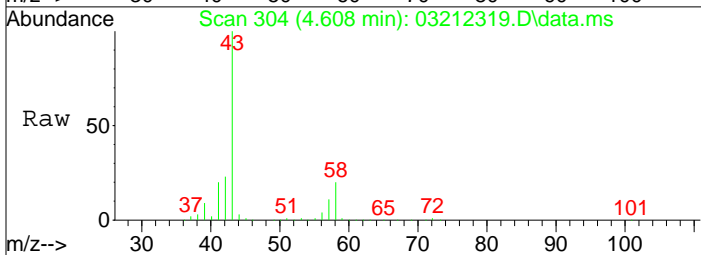
#12
 Acrolein
 Concen: 0.70 ng
 RT: 4.52 min Scan# 288
 Delta R.T. -0.017 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

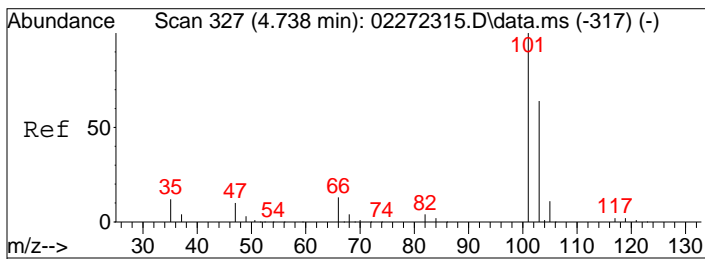
Tgt Ion	Resp	Lower	Upper
56	100		
55	72.2	56.4	96.4



#13
 Acetone
 Concen: 21.81 ng
 RT: 4.61 min Scan# 304
 Delta R.T. -0.029 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

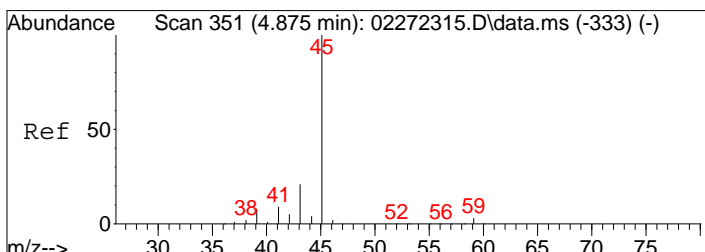
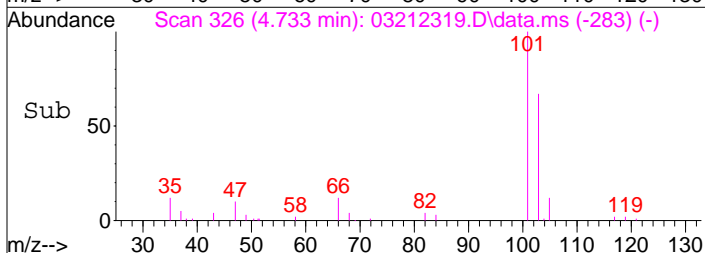
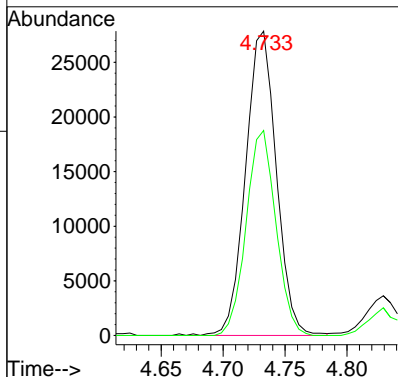
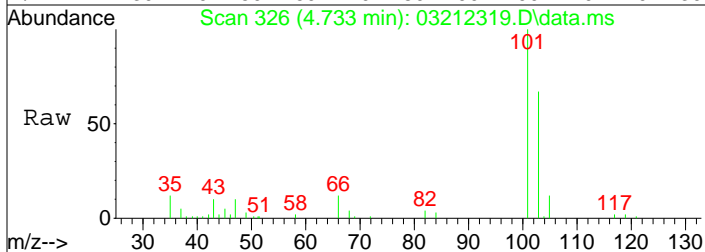
Tgt Ion	Resp	Lower	Upper
58	100		
43	528.5	414.4	474.4#





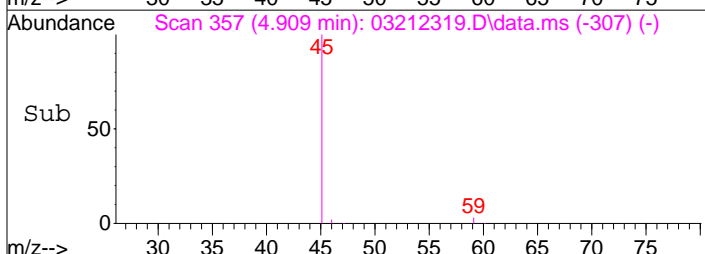
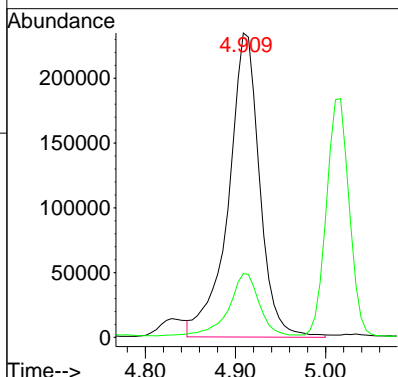
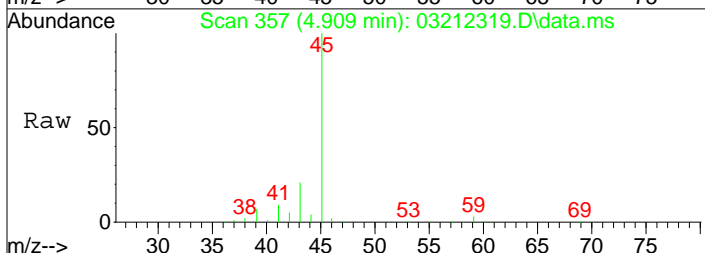
#14
 Trichlorofluoromethane
 Concen: 1.26 ng
 RT: 4.73 min Scan# 326
 Delta R.T. -0.006 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

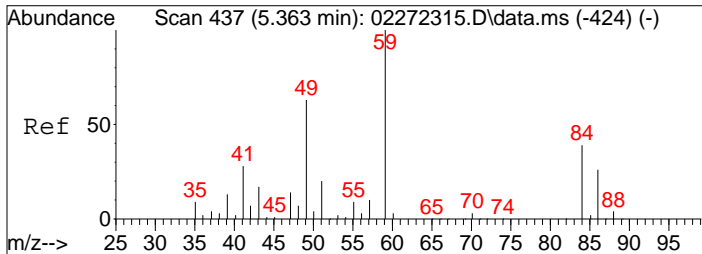
Tgt Ion: 101 Resp: 48139
 Ion Ratio Lower Upper
 101 100
 103 65.0 44.0 84.0



#15
 2-Propanol (Isopropanol)
 Concen: 12.11 ng m
 RT: 4.91 min Scan# 357
 Delta R.T. 0.034 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

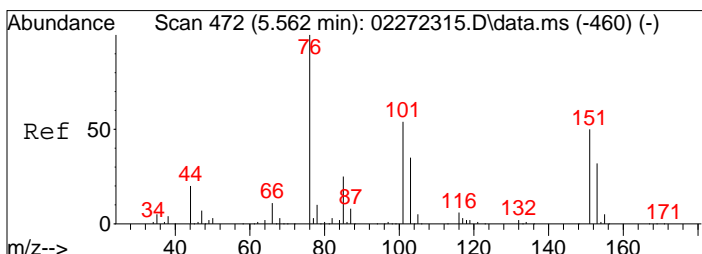
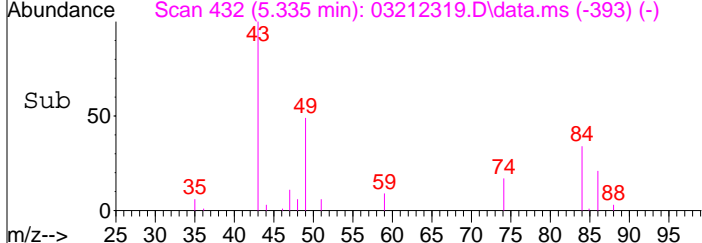
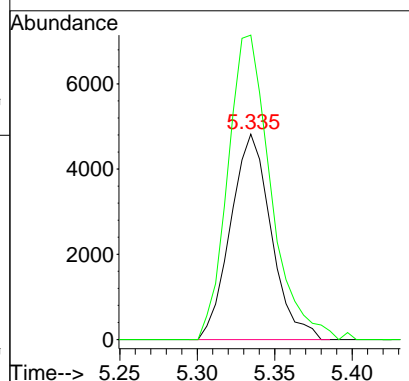
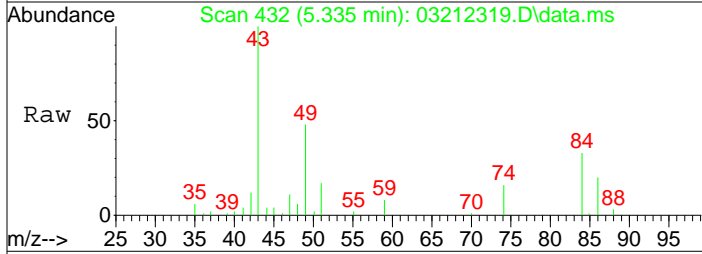
Tgt Ion: 45 Resp: 564910
 Ion Ratio Lower Upper
 45 100
 43 20.5 1.6 41.6





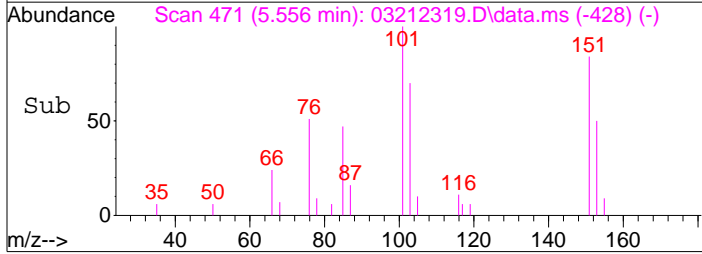
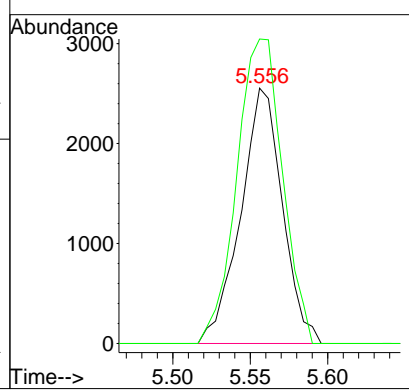
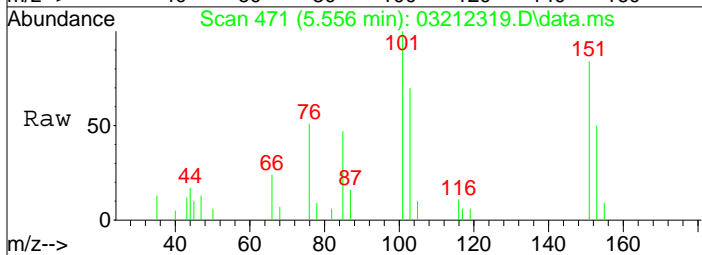
#19
 Methylene Chloride
 Concen: 0.56 ng
 RT: 5.33 min Scan# 432
 Delta R.T. -0.029 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

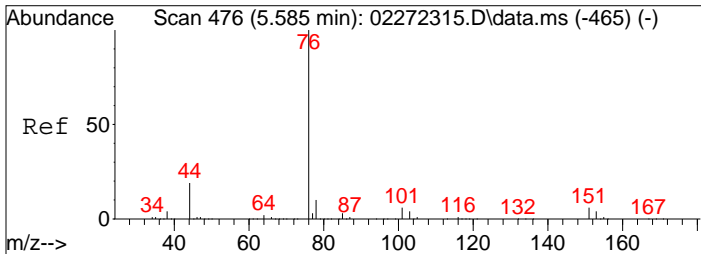
Tgt Ion	Resp	Lower	Upper
84	100		
49	157.3	136.0	186.0



#21
 Trichlorotrifluoroethane
 Concen: 0.28 ng
 RT: 5.56 min Scan# 471
 Delta R.T. -0.006 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

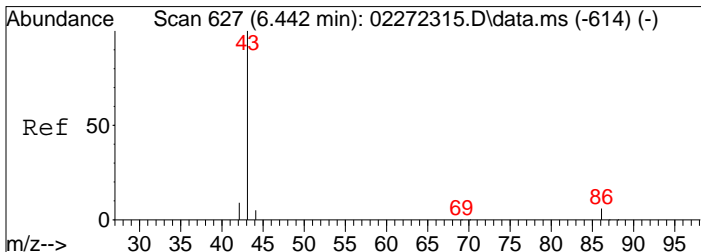
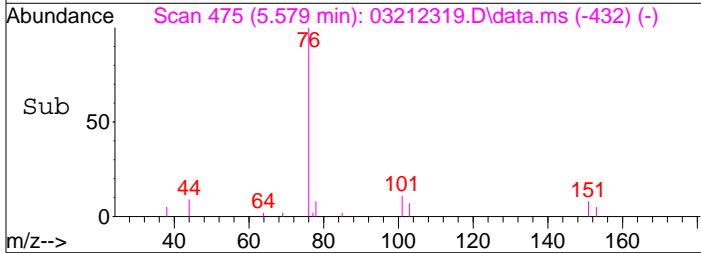
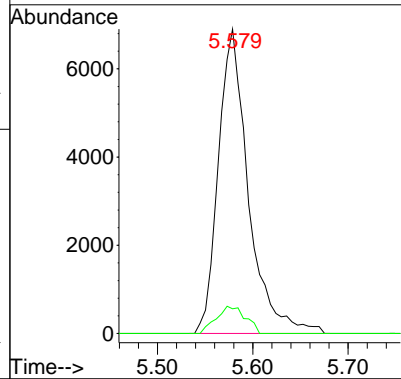
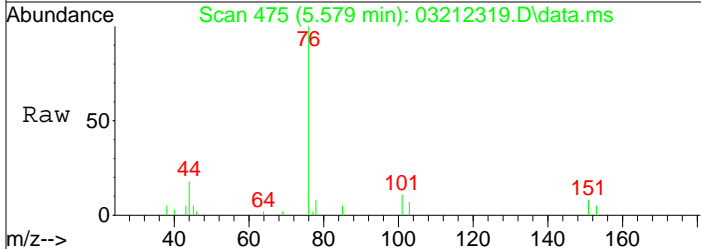
Tgt Ion	Resp	Lower	Upper
151	100		
101	130.6	88.2	128.2#





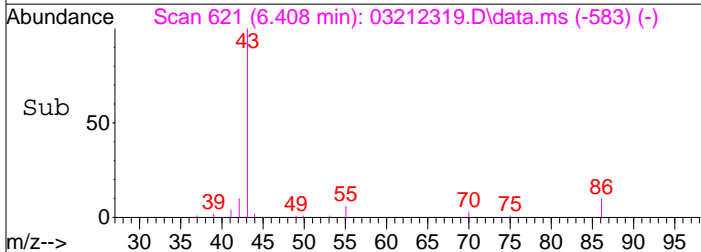
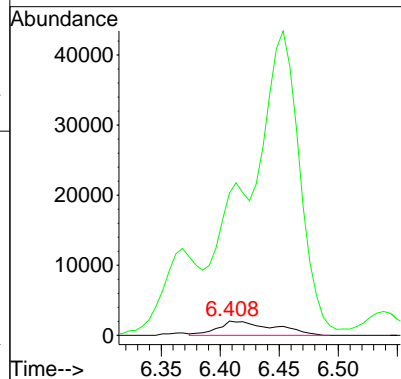
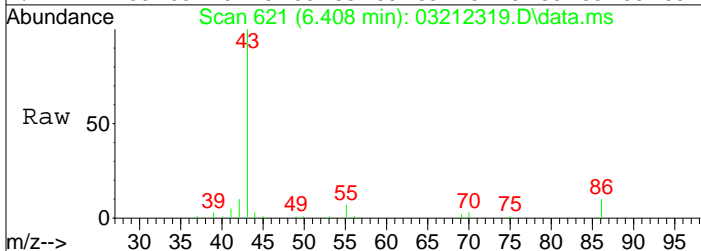
#22
 Carbon Disulfide
 Concen: 0.26 ng
 RT: 5.58 min Scan# 475
 Delta R.T. -0.006 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

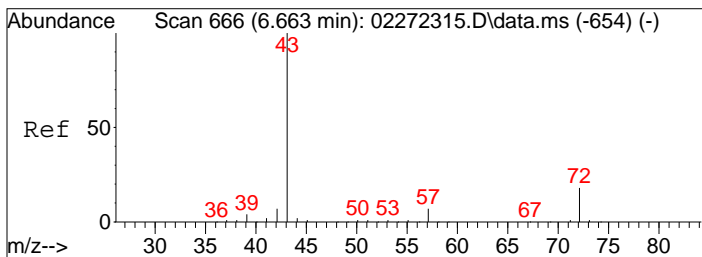
Tgt Ion: 76 Resp: 15118
 Ion Ratio Lower Upper
 76 100
 78 8.7 0.0 29.7



#26
 Vinyl Acetate
 Concen: 2.95 ng
 RT: 6.41 min Scan# 621
 Delta R.T. -0.034 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

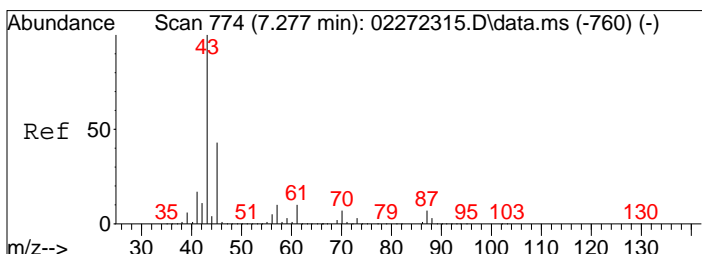
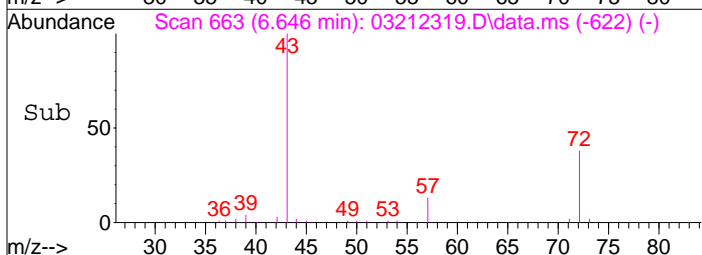
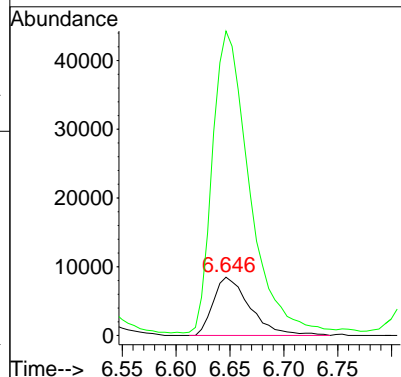
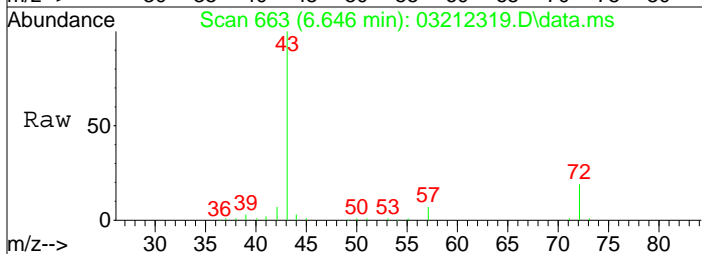
Tgt Ion: 86 Resp: 6838
 Ion Ratio Lower Upper
 86 100
 43 597.2 1713.1 1753.1#





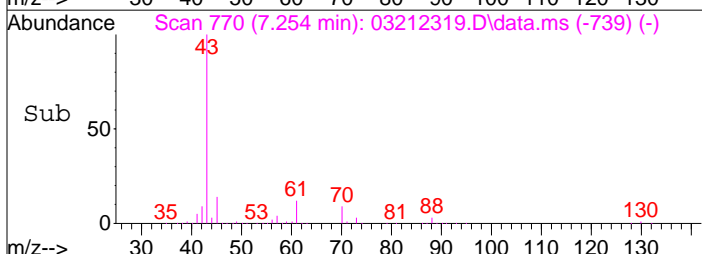
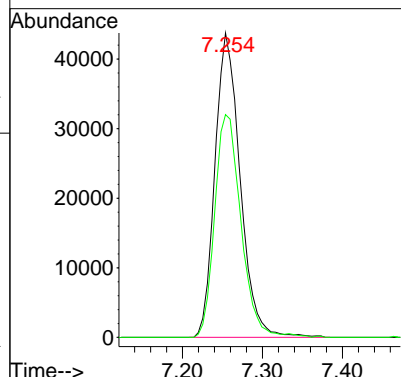
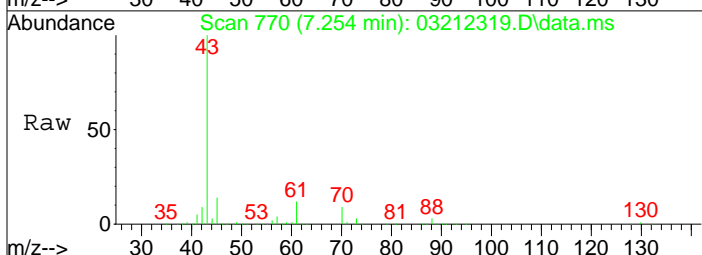
#27
 2-Butanone (MEK)
 Concen: 2.12 ng
 RT: 6.65 min Scan# 663
 Delta R.T. -0.017 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

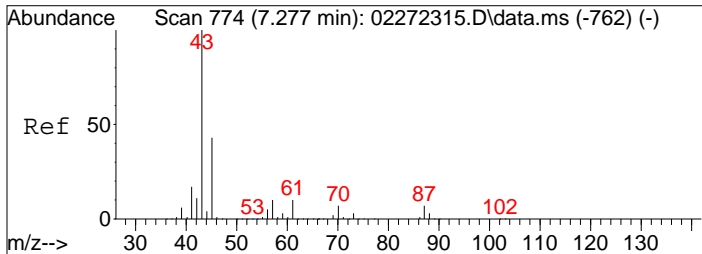
Tgt Ion: 72 Resp: 20155
 Ion Ratio Lower Upper
 72 100
 43 521.1 536.0 576.0#



#30
 Ethyl Acetate
 Concen: 13.10 ng
 RT: 7.25 min Scan# 770
 Delta R.T. -0.023 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

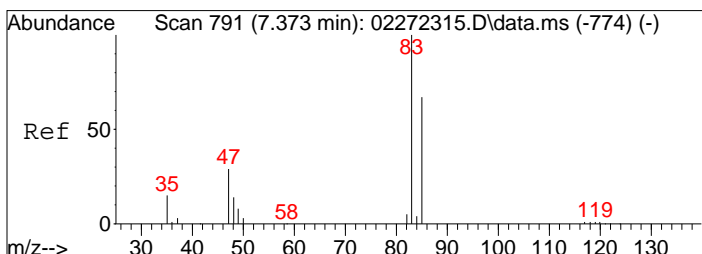
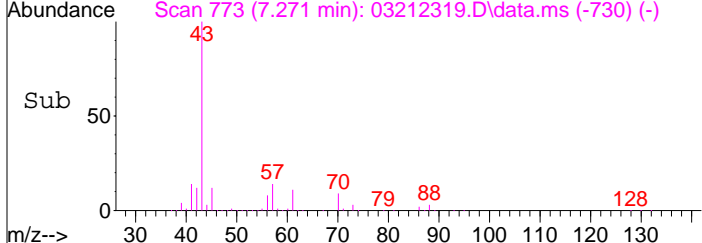
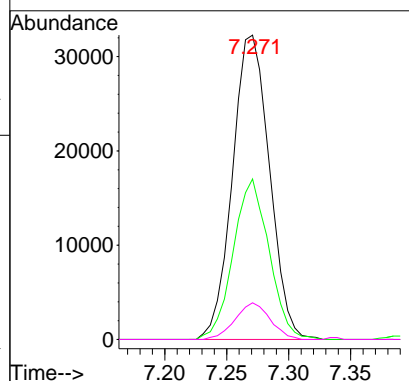
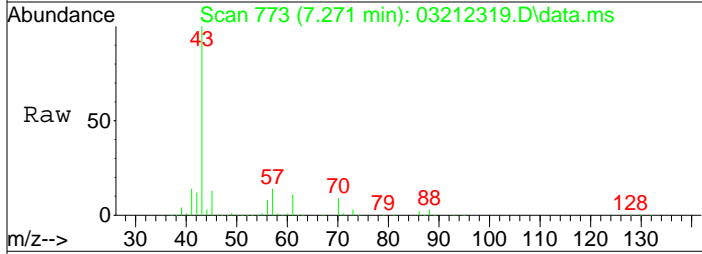
Tgt Ion: 61 Resp: 95864
 Ion Ratio Lower Upper
 61 100
 70 76.2 55.8 95.8





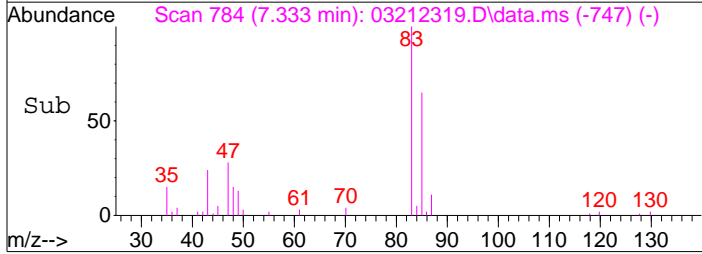
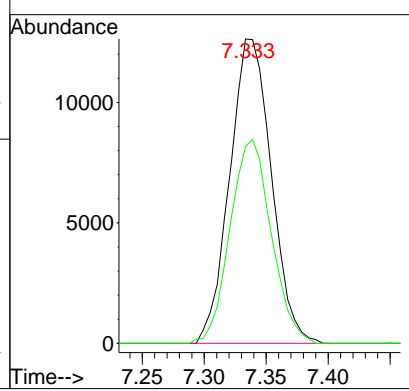
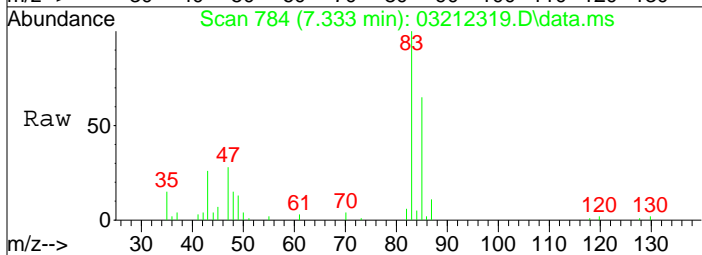
#31
 n-Hexane
 Concen: 2.21 ng
 RT: 7.27 min Scan# 773
 Delta R.T. -0.006 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

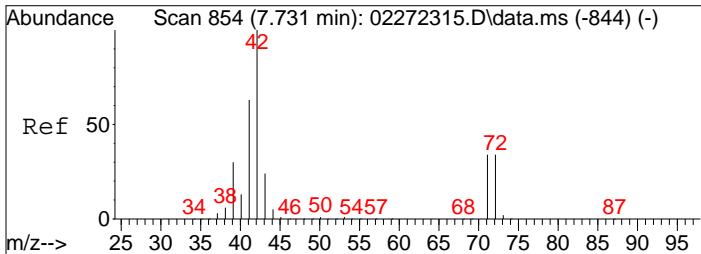
Tgt Ion	Resp	Lower	Upper
57	100		
56	50.9	43.3	64.9
86	11.4	10.2	15.2



#32
 Chloroform
 Concen: 0.88 ng
 RT: 7.33 min Scan# 784
 Delta R.T. -0.040 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

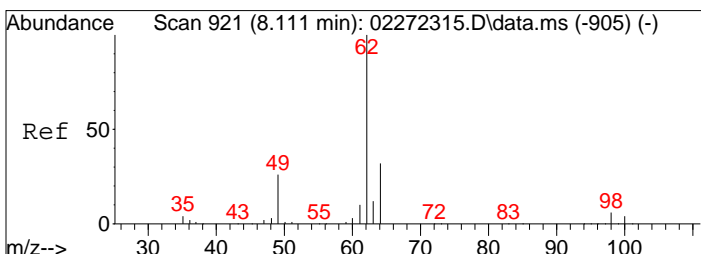
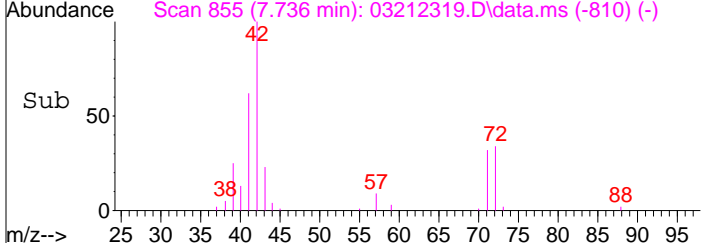
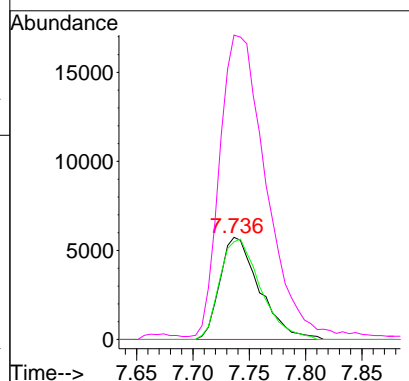
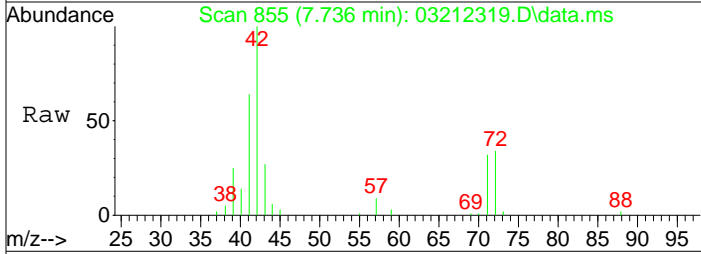
Tgt Ion	Resp	Lower	Upper
83	100		
85	66.2	46.3	86.3





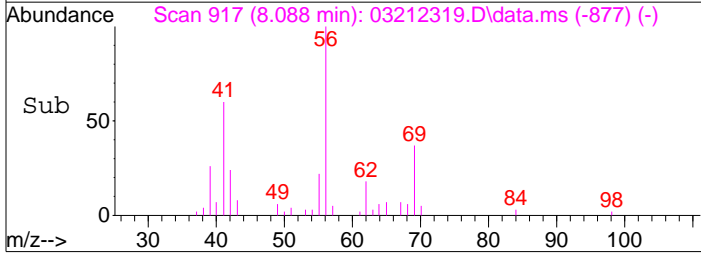
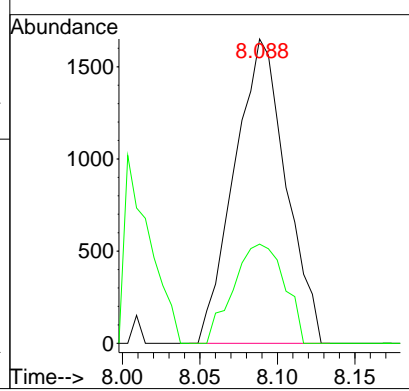
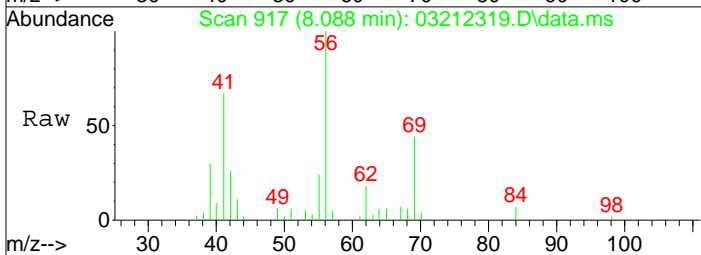
#34
 Tetrahydrofuran (THF)
 Concen: 1.47 ng
 RT: 7.74 min Scan# 855
 Delta R.T. 0.006 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

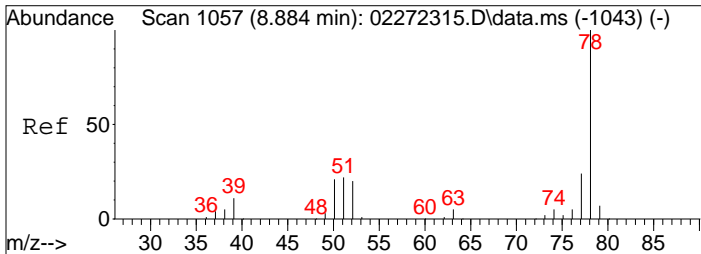
Tgt Ion:	Resp:	Lower	Upper
72	14040		
71	101.0	81.3	121.3
42	357.4	293.7	333.7#



#36
 1,2-Dichloroethane
 Concen: 0.13 ng
 RT: 8.09 min Scan# 917
 Delta R.T. -0.023 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

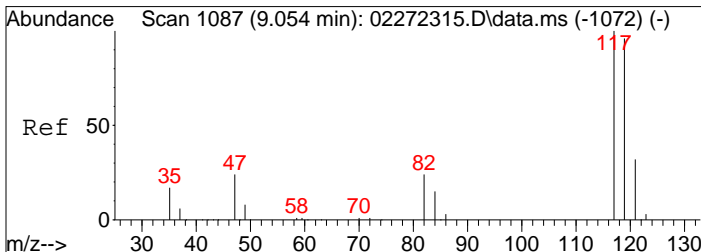
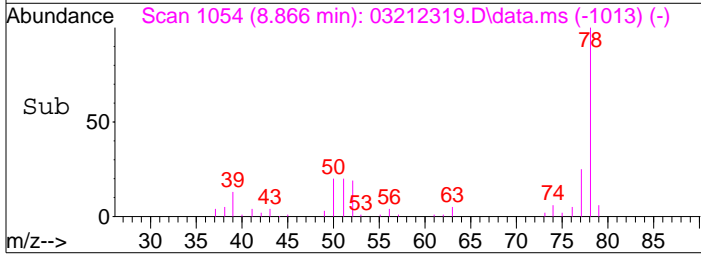
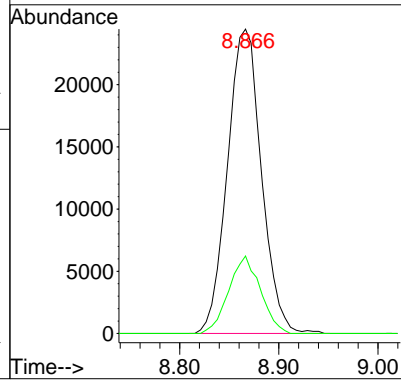
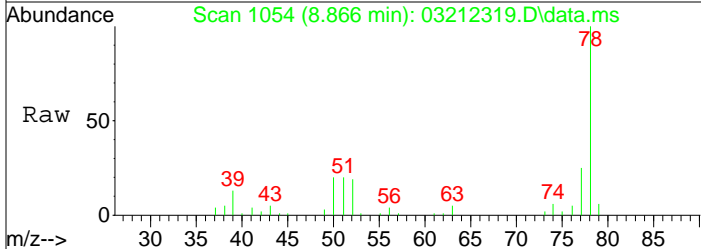
Tgt Ion:	Resp:	Lower	Upper
62	3814		
64	32.3	12.0	52.0





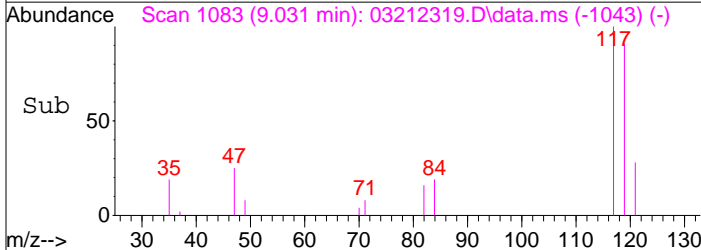
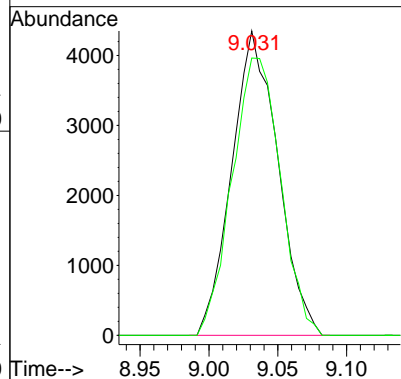
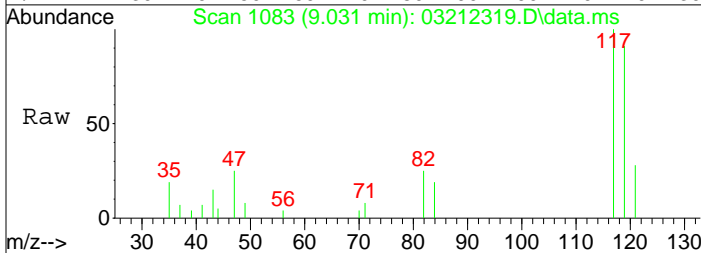
#41
Benzene
Concen: 0.92 ng
RT: 8.87 min Scan# 1054
Delta R.T. -0.017 min
Lab File: 03212319.D
Acq: 21 Mar 2023 16:15

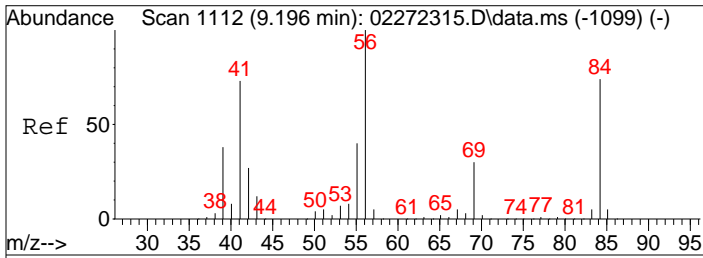
Tgt Ion: 78 Resp: 58353
Ion Ratio Lower Upper
78 100
77 23.7 4.0 44.0



#42
Carbon Tetrachloride
Concen: 0.36 ng
RT: 9.03 min Scan# 1083
Delta R.T. -0.023 min
Lab File: 03212319.D
Acq: 21 Mar 2023 16:15

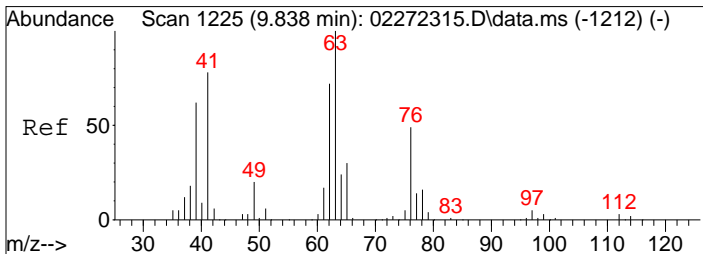
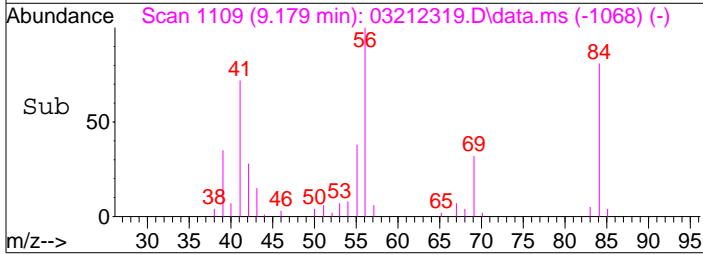
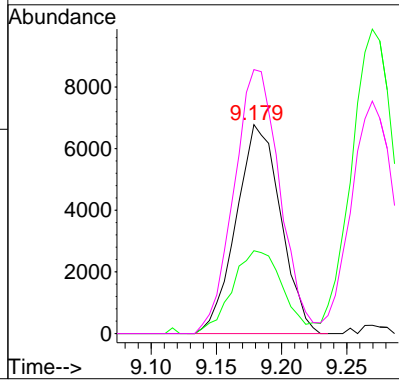
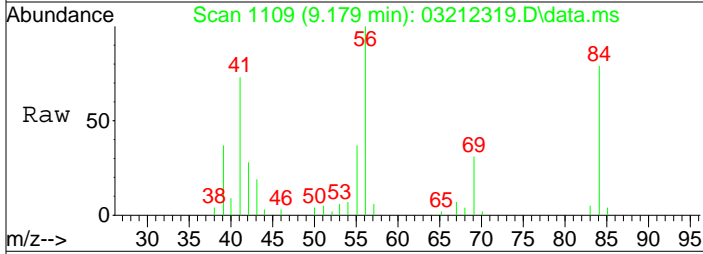
Tgt Ion: 117 Resp: 10107
Ion Ratio Lower Upper
117 100
119 95.6 75.5 115.5





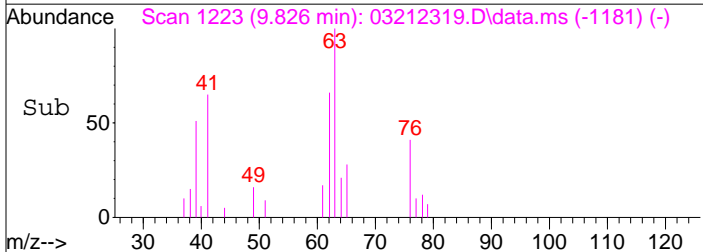
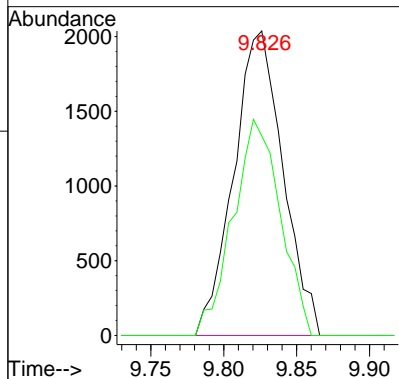
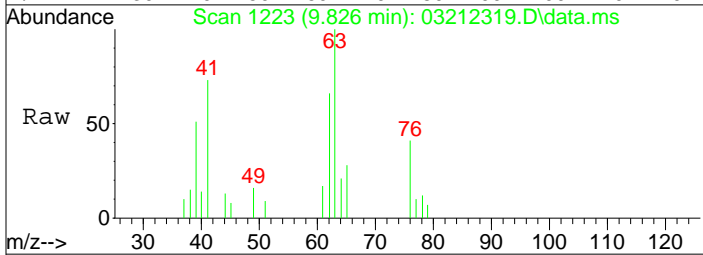
#43
 Cyclohexane
 Concen: 0.68 ng
 RT: 9.18 min Scan# 1109
 Delta R.T. -0.017 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

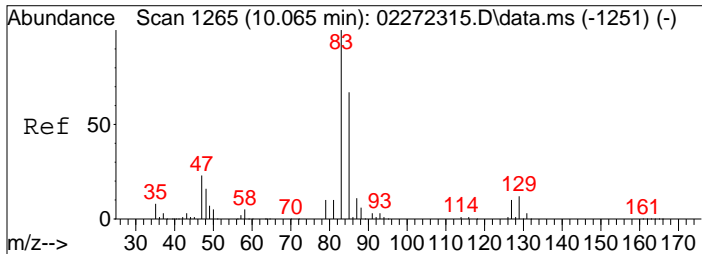
Tgt Ion:	84	Resp:	16107
Ion Ratio	Lower	Upper	
84	100		
69	44.3	20.6	60.6
56	130.6	116.1	156.1



#45
 1,2-Dichloropropane
 Concen: 0.27 ng
 RT: 9.83 min Scan# 1223
 Delta R.T. -0.011 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

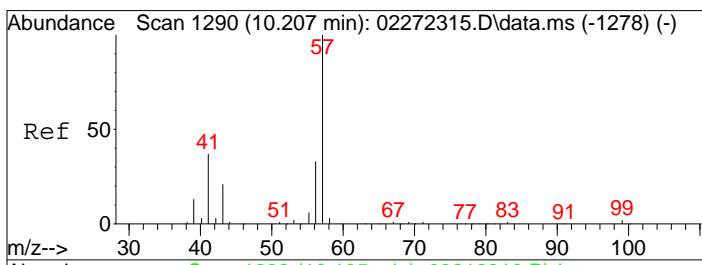
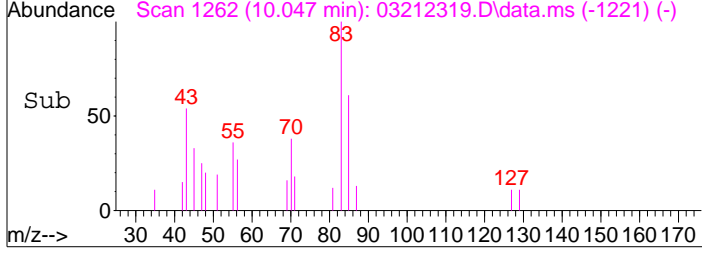
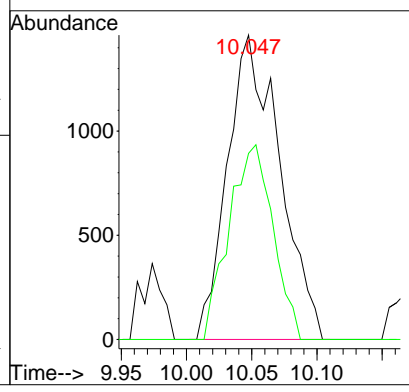
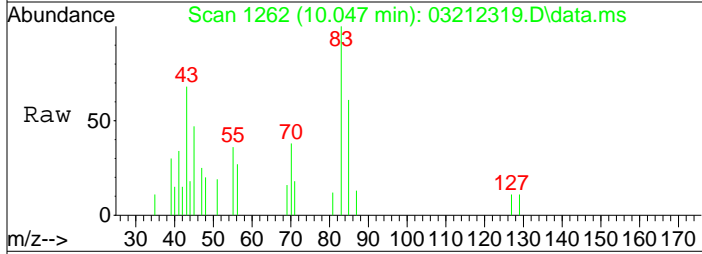
Tgt Ion:	63	Resp:	4794
Ion Ratio	Lower	Upper	
63	100		
62	68.1	52.1	92.1





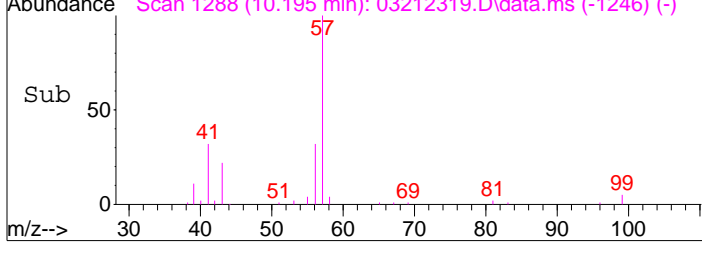
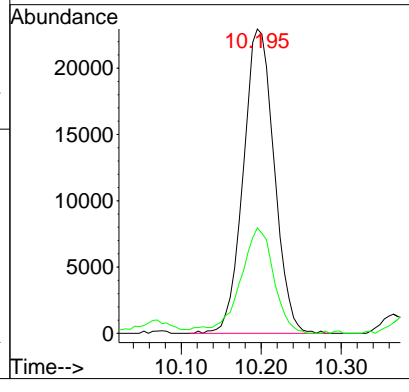
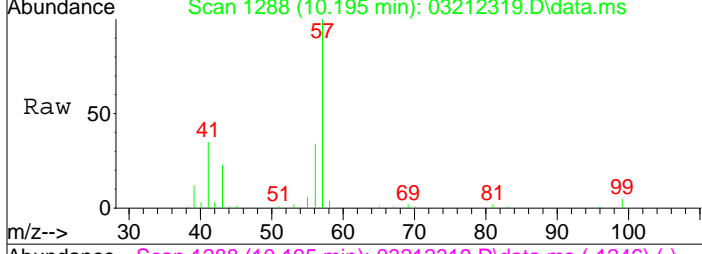
#46
 Bromodichloromethane
 Concen: 0.15 ng
 RT: 10.05 min Scan# 1262
 Delta R.T. -0.017 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

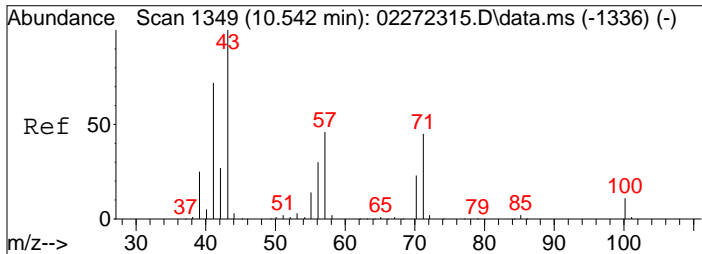
Tgt Ion	Resp	Lower	Upper
83	100		
85	53.9	46.0	86.0



#49
 2,2,4-Trimethylpentane (Isooctane)
 Concen: 0.79 ng
 RT: 10.20 min Scan# 1288
 Delta R.T. -0.011 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

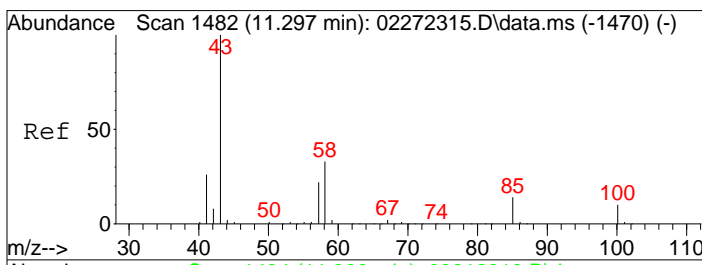
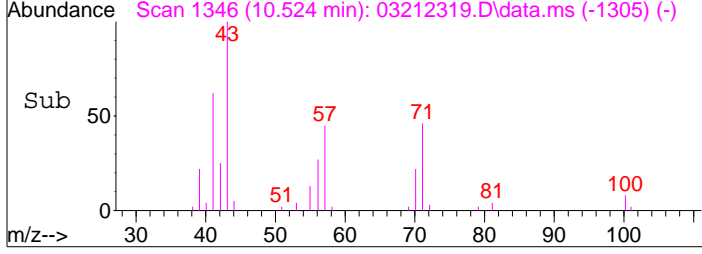
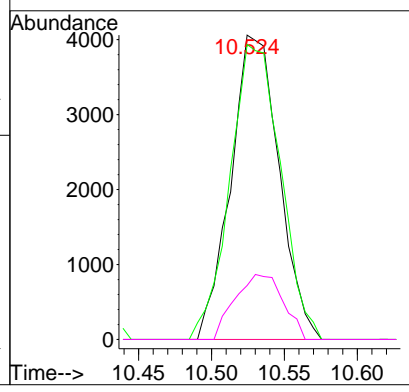
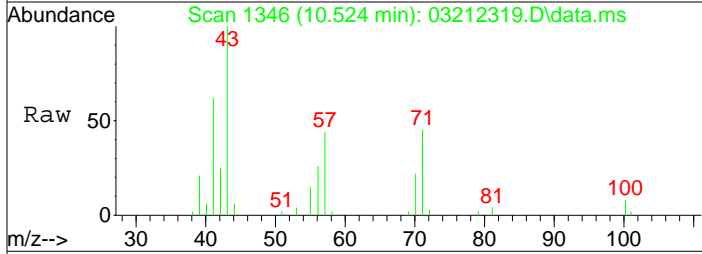
Tgt Ion	Resp	Lower	Upper
57	100		
41	37.7	17.1	57.1





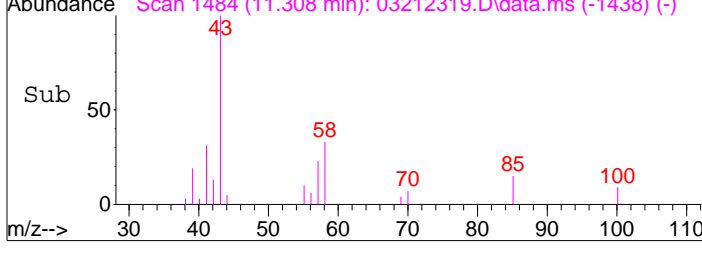
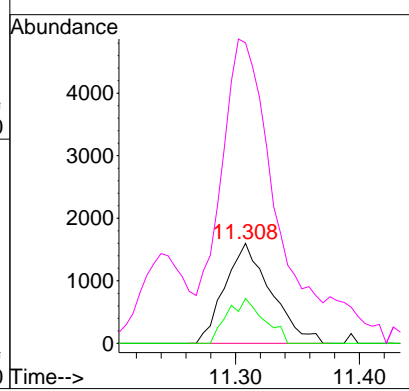
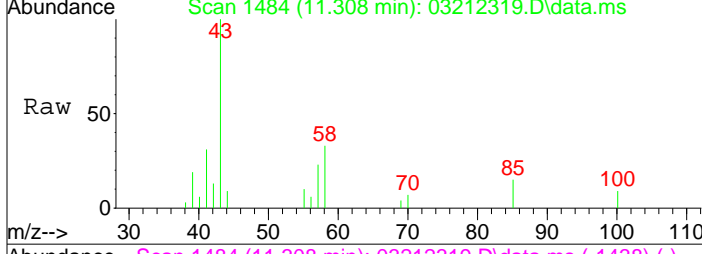
#51
 n-Heptane
 Concen: 0.59 ng
 RT: 10.52 min Scan# 1346
 Delta R.T. -0.017 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

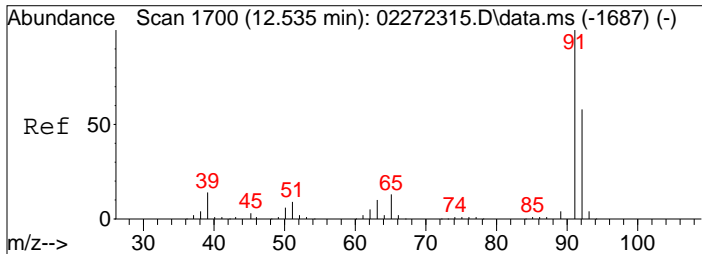
Tgt Ion	Resp	Lower	Upper
71	100		
57	101.6	84.6	124.6
100	21.3	5.8	45.8



#53
 4-Methyl-2-pentanone
 Concen: 0.27 ng
 RT: 11.31 min Scan# 1484
 Delta R.T. 0.011 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

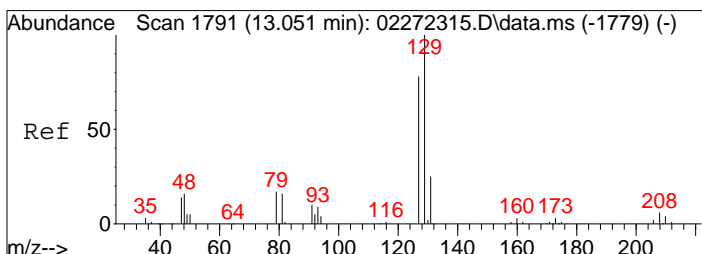
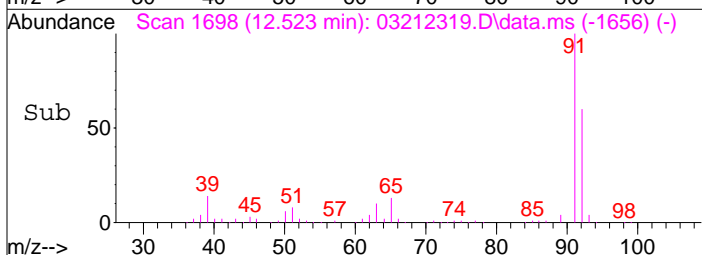
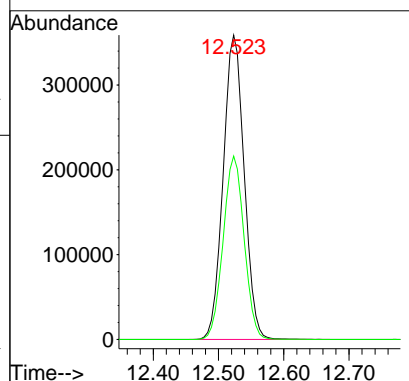
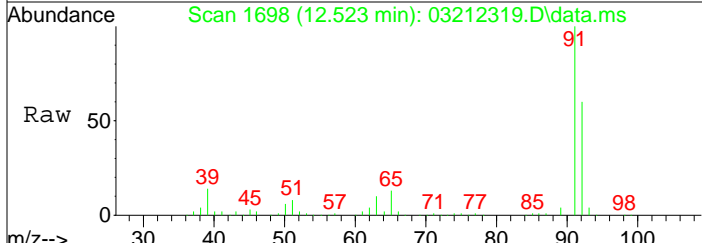
Tgt Ion	Resp	Lower	Upper
58	100		
85	35.8	35.7	53.5
43	384.1	242.9	364.3#





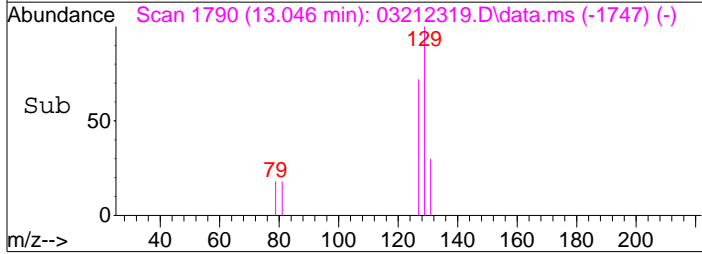
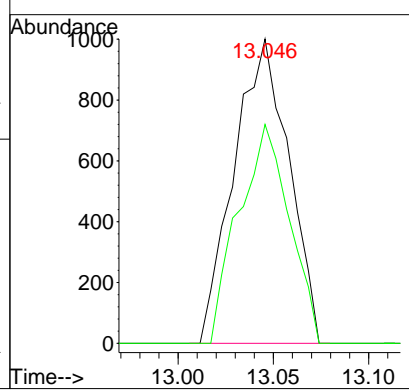
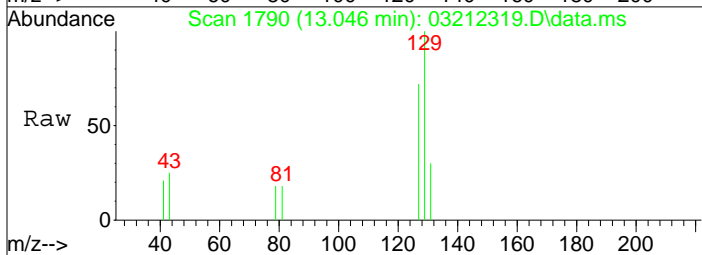
#58
 Toluene
 Concen: 11.70 ng
 RT: 12.52 min Scan# 1698
 Delta R.T. -0.012 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

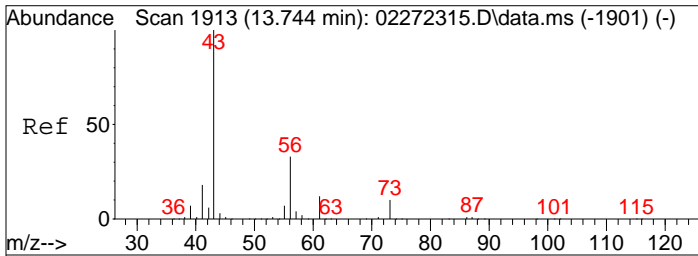
Tgt Ion:	91	Resp:	803670
Ion Ratio	Lower	Upper	
91	100		
92	60.1	37.6	77.6



#60
 Dibromochloromethane
 Concen: 0.09 ng
 RT: 13.05 min Scan# 1790
 Delta R.T. -0.006 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

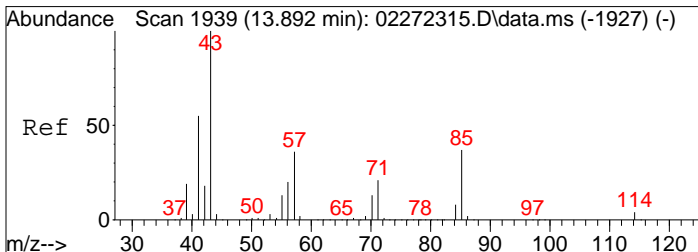
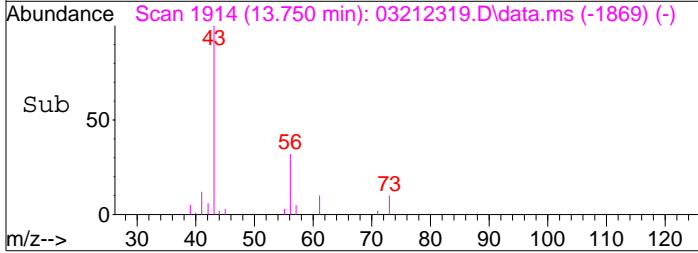
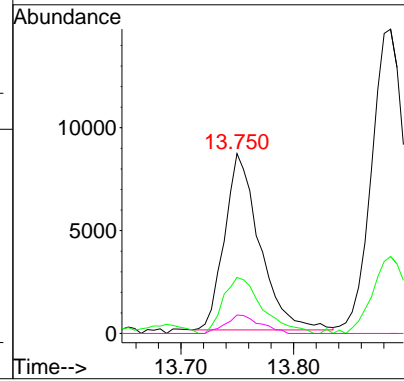
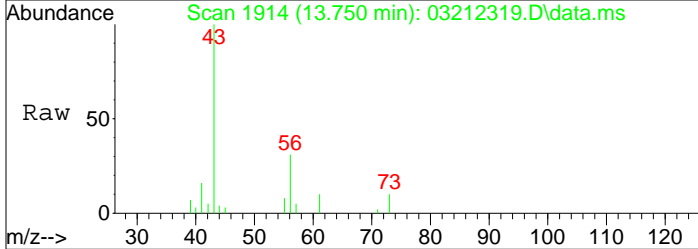
Tgt Ion:	129	Resp:	1995
Ion Ratio	Lower	Upper	
129	100		
127	66.7	57.5	97.5





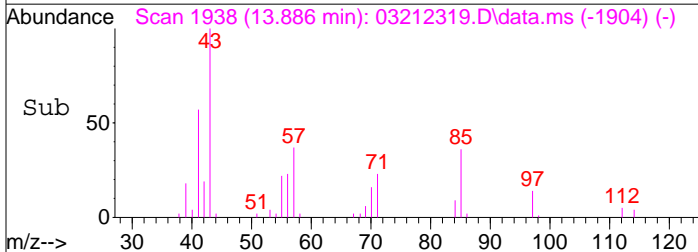
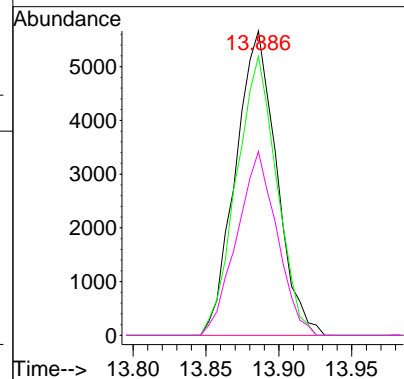
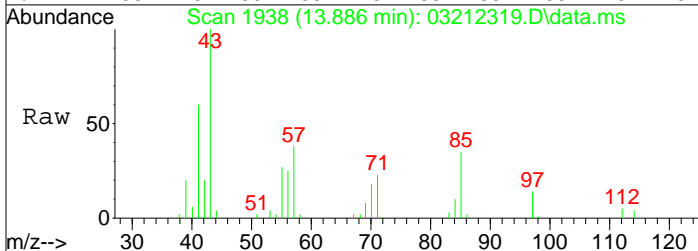
#62
 n-Butyl Acetate
 Concen: 0.39 ng
 RT: 13.75 min Scan# 1914
 Delta R.T. 0.006 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

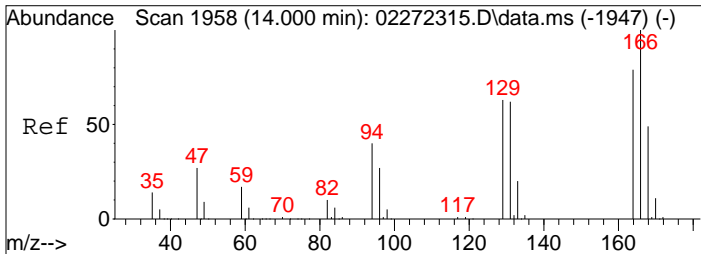
Tgt Ion:	Resp:	Lower	Upper
43	18561		
56	35.3	13.1	53.1
73	10.3	0.0	29.9



#63
 n-Octane
 Concen: 0.74 ng
 RT: 13.89 min Scan# 1938
 Delta R.T. -0.006 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

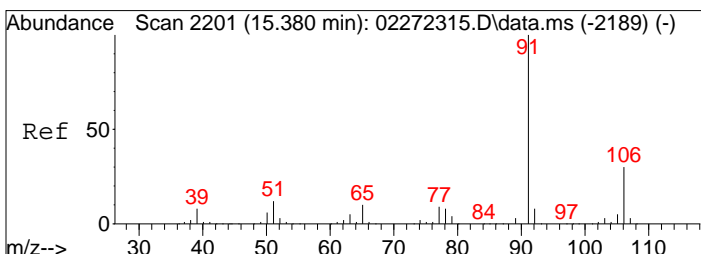
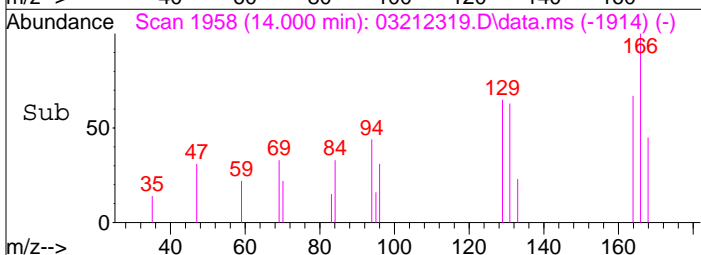
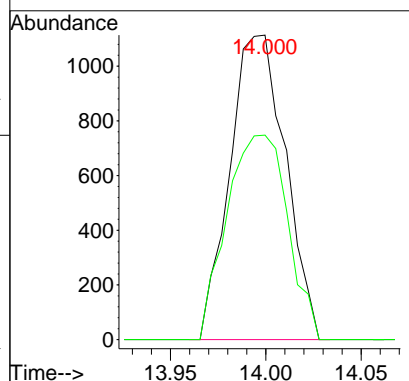
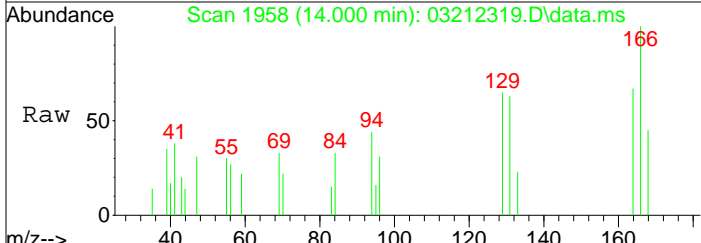
Tgt Ion:	Resp:	Lower	Upper
57	11072		
85	90.3	82.4	123.6
71	59.3	47.8	71.6





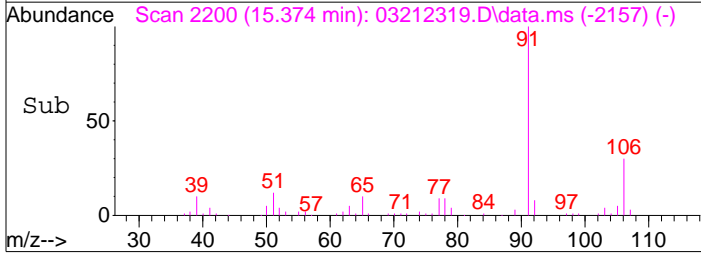
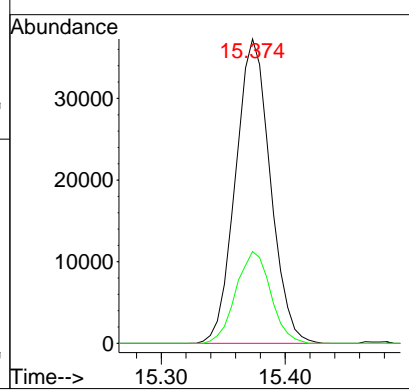
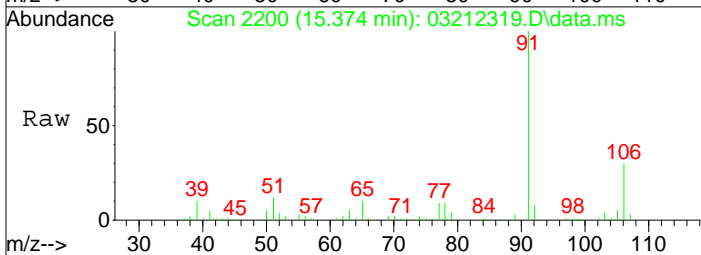
#64
 Tetrachloroethene
 Concen: 0.10 ng
 RT: 14.00 min Scan# 1958
 Delta R.T. -0.000 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

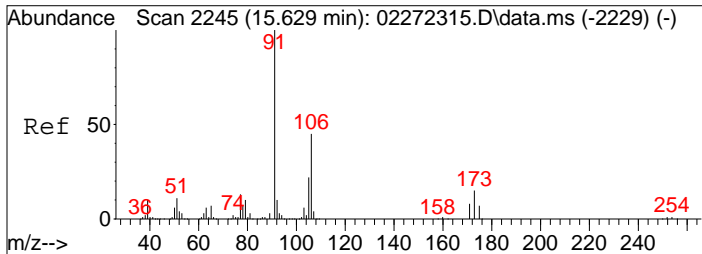
Tgt Ion	Resp	Lower	Upper
166	100		
164	73.5	58.6	98.6



#66
 Ethylbenzene
 Concen: 0.92 ng
 RT: 15.37 min Scan# 2200
 Delta R.T. -0.006 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

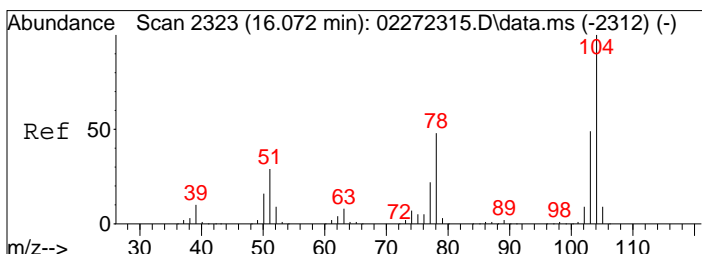
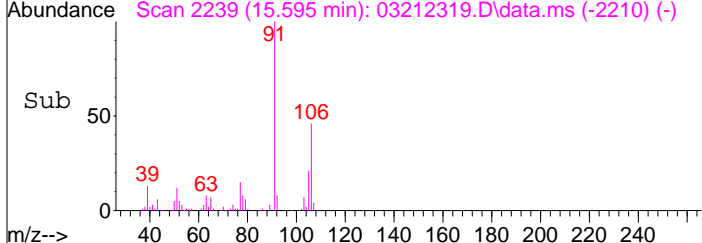
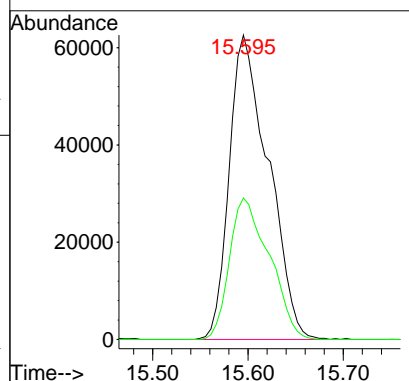
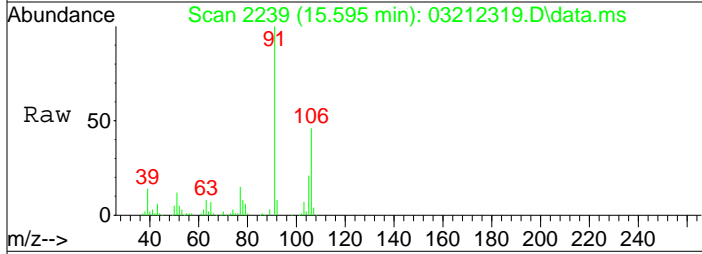
Tgt Ion	Resp	Lower	Upper
91	100		
106	30.2	10.3	50.3





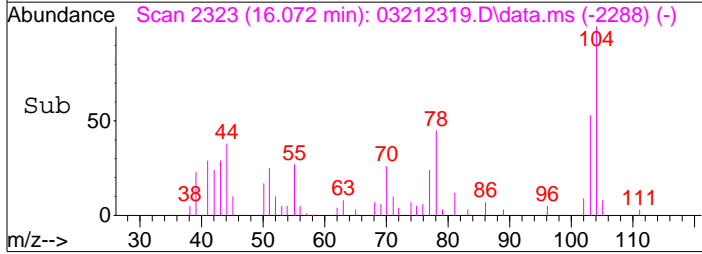
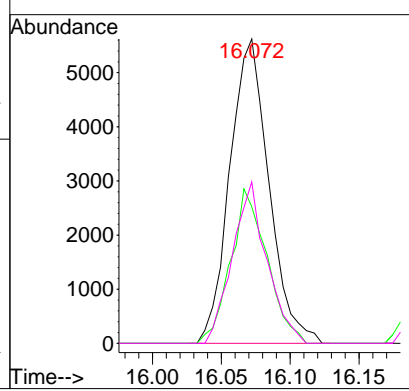
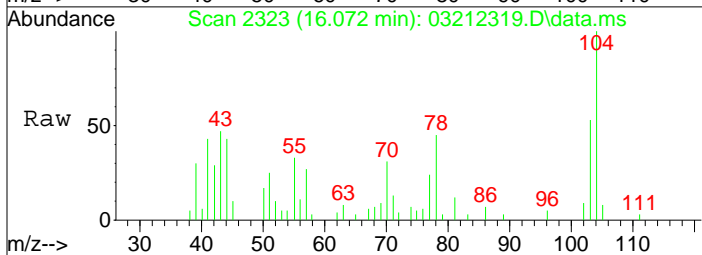
#67
 m- & p-Xylenes
 Concen: 2.76 ng
 RT: 15.60 min Scan# 2239
 Delta R.T. -0.034 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

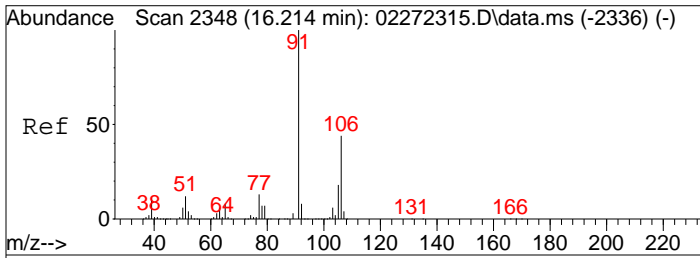
Tgt Ion	Resp	Lower	Upper
91	178543		
106	47.3	25.0	65.0



#69
 Styrene
 Concen: 0.27 ng
 RT: 16.07 min Scan# 2323
 Delta R.T. -0.000 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

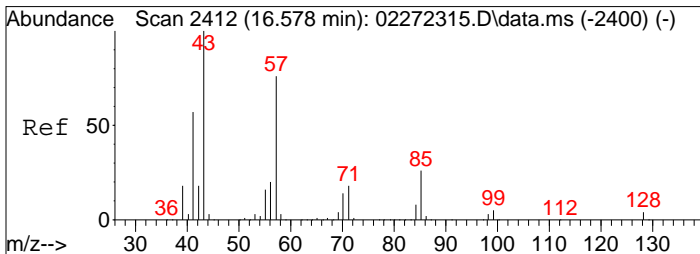
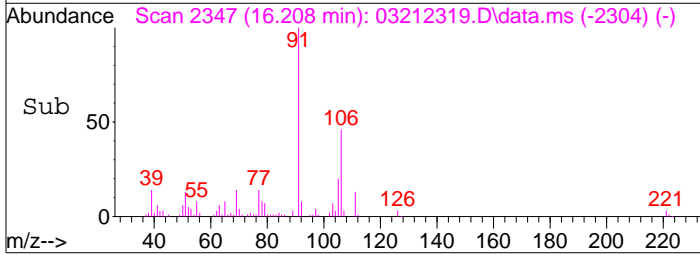
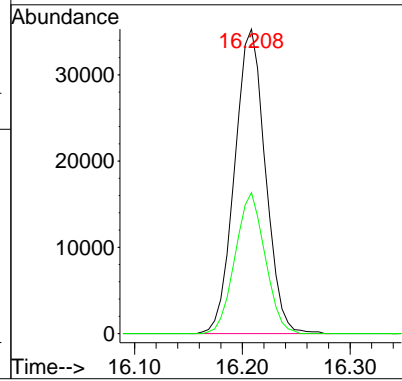
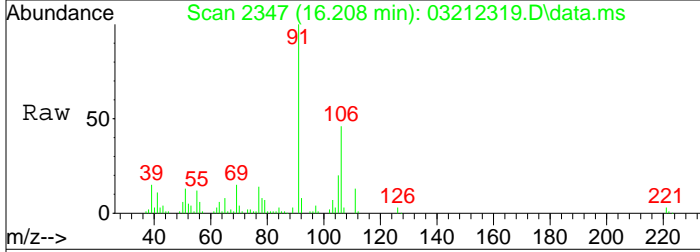
Tgt Ion	Resp	Lower	Upper
104	11119		
78	47.2	29.2	69.2
103	46.8	29.2	69.2





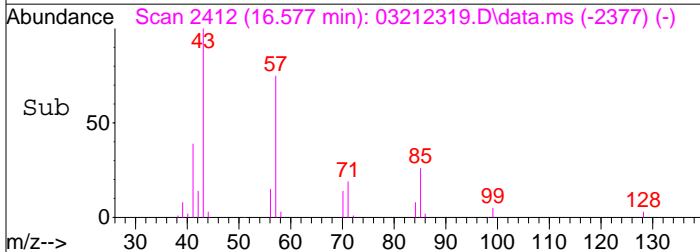
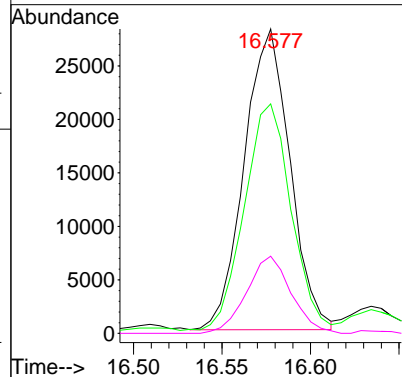
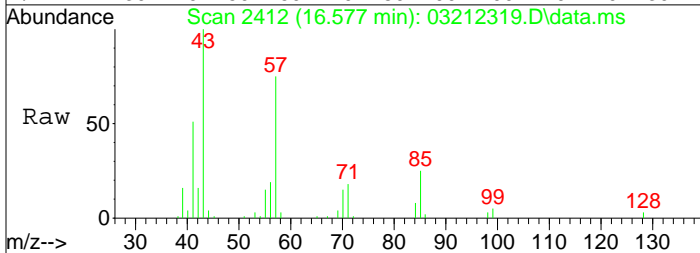
#70
 o-Xylene
 Concen: 1.10 ng
 RT: 16.21 min Scan# 2347
 Delta R.T. -0.006 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

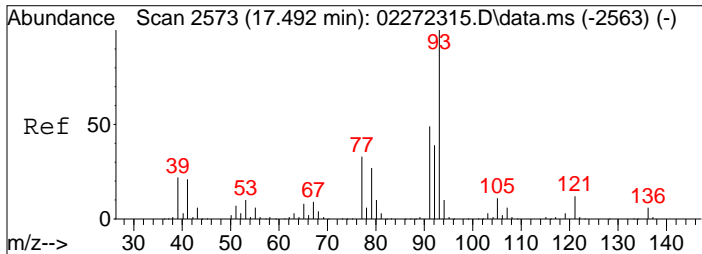
Tgt Ion	Resp	Lower	Upper
91	100		
106	45.0	24.0	64.0



#71
 n-Nonane
 Concen: 1.26 ng
 RT: 16.58 min Scan# 2412
 Delta R.T. -0.000 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

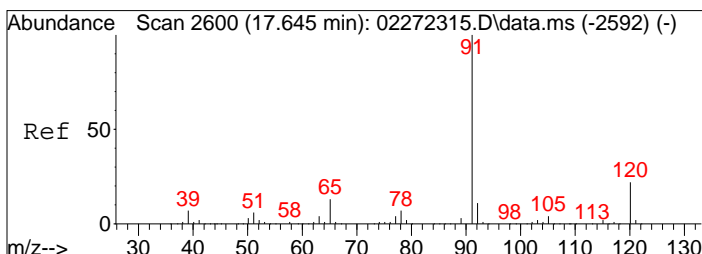
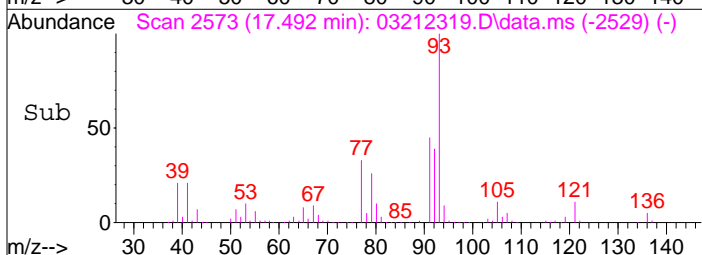
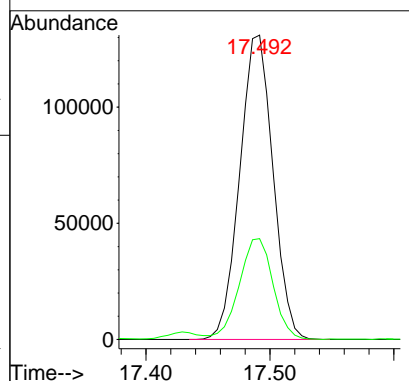
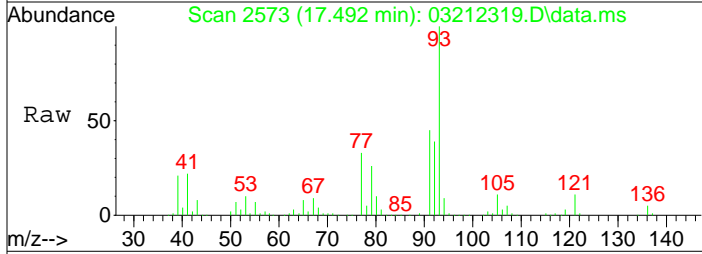
Tgt Ion	Resp	Lower	Upper
43	100		
57	77.0	56.2	96.2
85	24.9	6.1	46.1





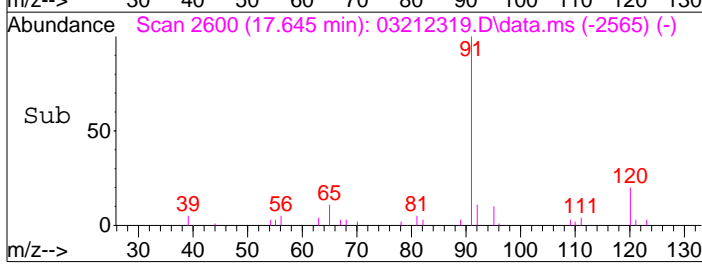
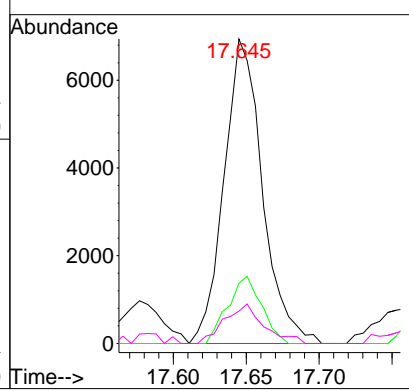
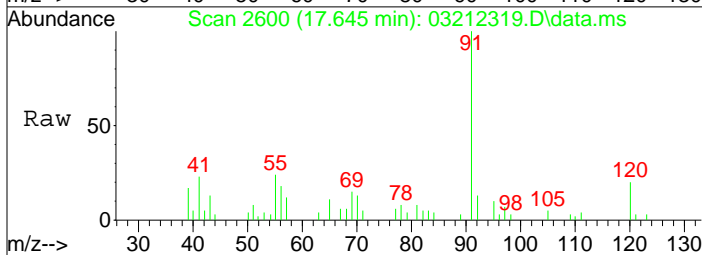
#75
 alpha-Pinene
 Concen: 7.37 ng
 RT: 17.49 min Scan# 2573
 Delta R.T. -0.000 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

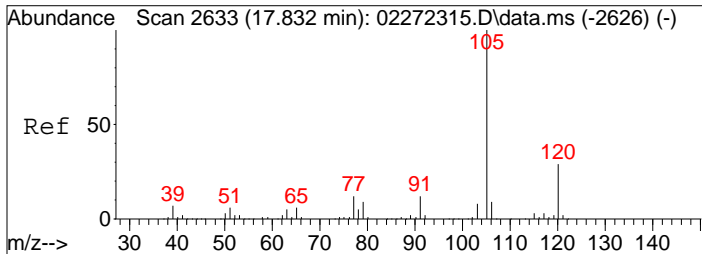
Tgt Ion	Resp	Lower	Upper
93	243699	100	
77	33.7	14.2	54.2



#76
 n-Propylbenzene
 Concen: 0.14 ng
 RT: 17.64 min Scan# 2600
 Delta R.T. -0.000 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

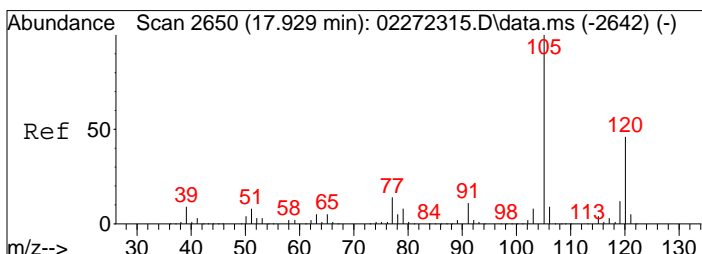
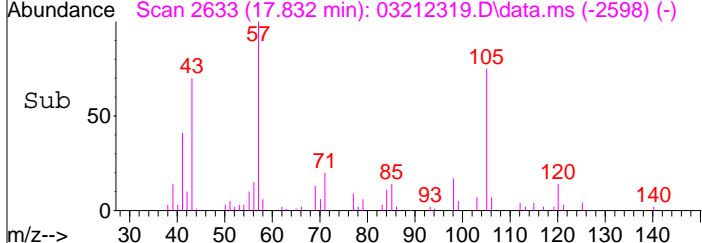
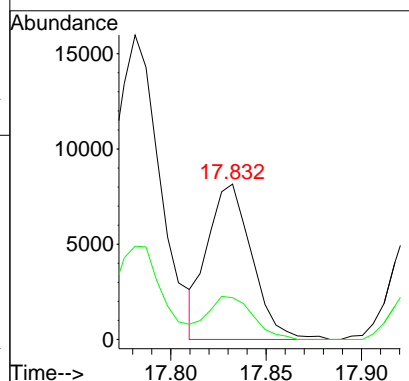
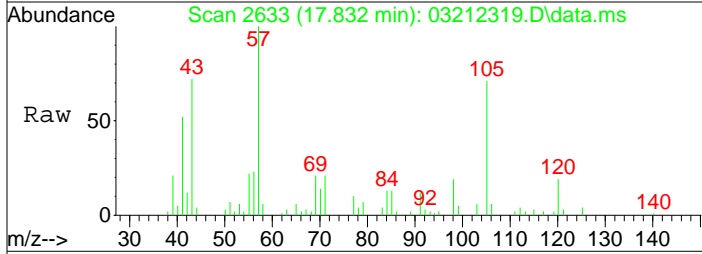
Tgt Ion	Resp	Lower	Upper
91	12720	100	
120	19.4	2.0	42.0
65	13.1	0.0	32.3





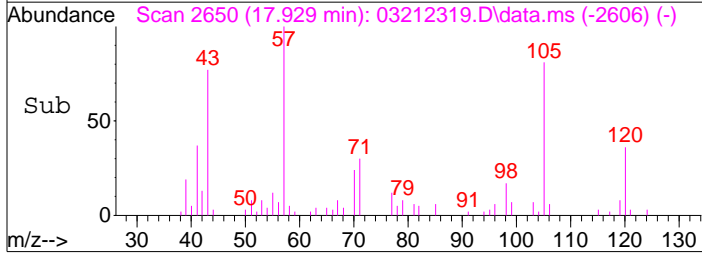
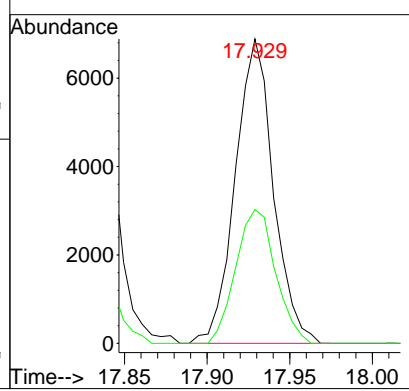
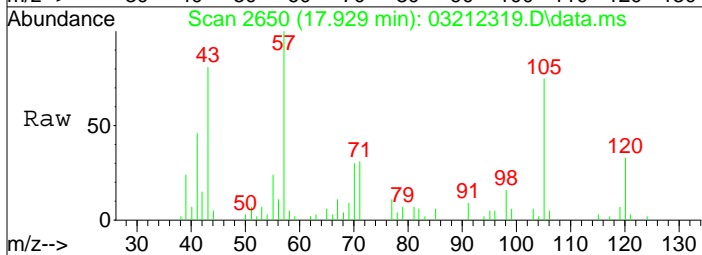
#78
 4-Ethyltoluene
 Concen: 0.18 ng
 RT: 17.83 min Scan# 2633
 Delta R.T. -0.000 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

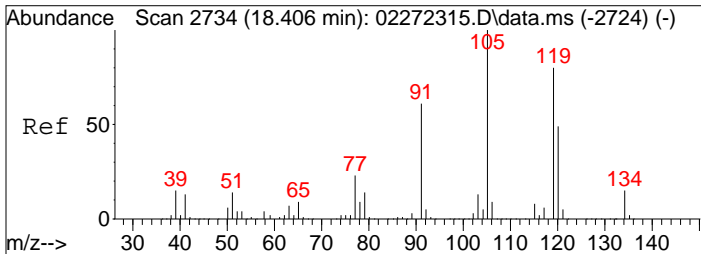
Tgt Ion	Resp	Lower	Upper
105	13210	100	
120	28.5	8.5	48.5



#79
 1,3,5-Trimethylbenzene
 Concen: 0.17 ng
 RT: 17.93 min Scan# 2650
 Delta R.T. -0.000 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

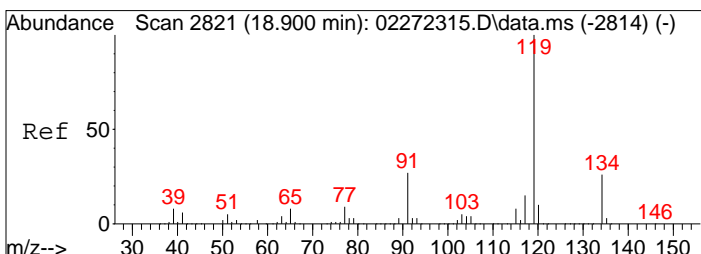
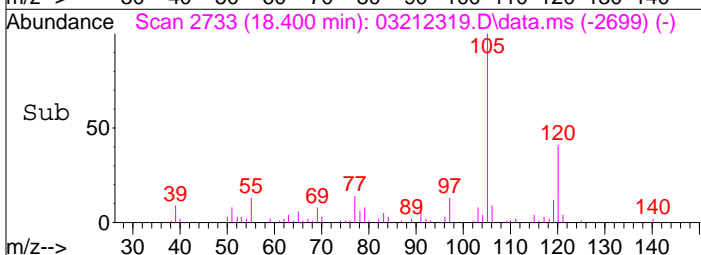
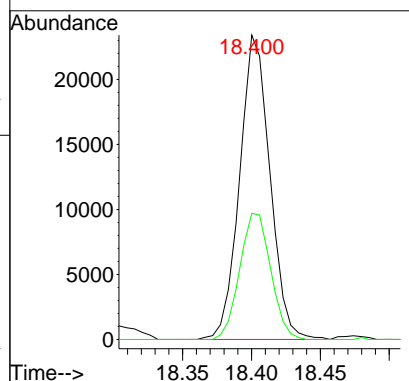
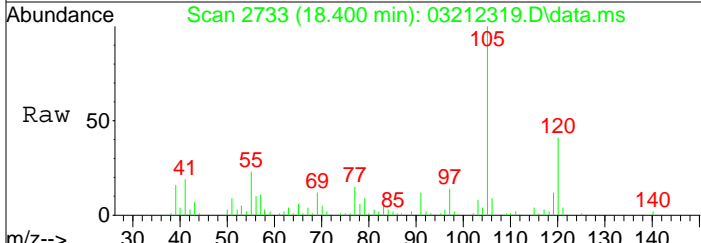
Tgt Ion	Resp	Lower	Upper
105	11055	100	
120	45.9	25.5	65.5





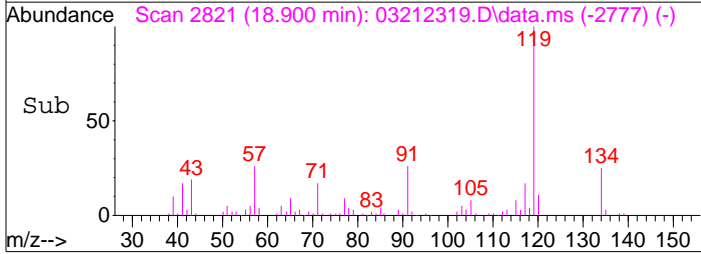
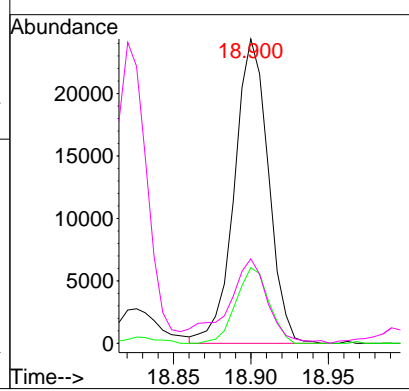
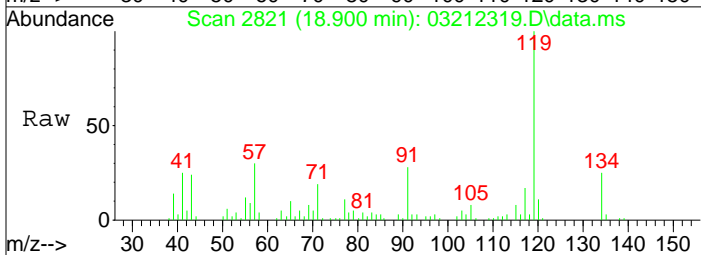
#82
 1,2,4-Trimethylbenzene
 Concen: 0.53 ng
 RT: 18.40 min Scan# 2733
 Delta R.T. -0.006 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

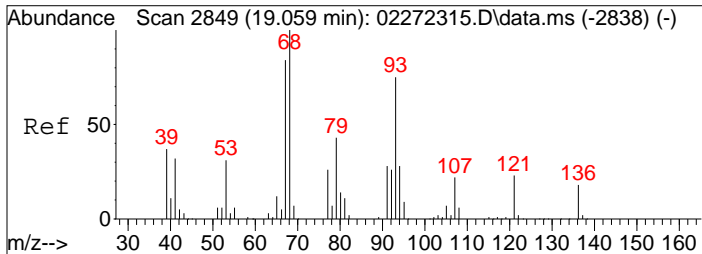
Tgt Ion	Resp	Lower	Upper
105	35841	100	100
120	42.3	30.5	70.5



#88
 4-Isopropyltoluene (p-Cymene)
 Concen: 0.48 ng
 RT: 18.90 min Scan# 2821
 Delta R.T. -0.000 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

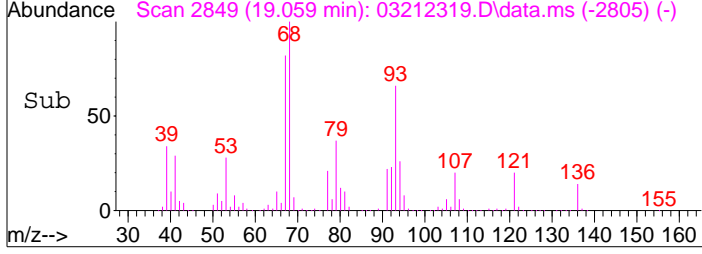
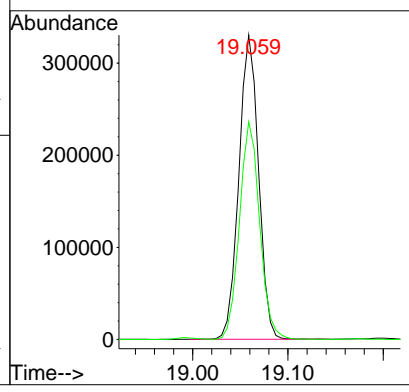
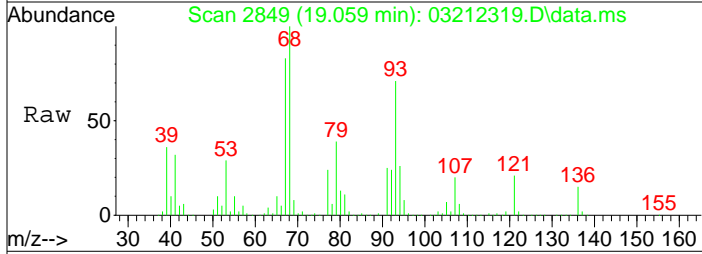
Tgt Ion	Resp	Lower	Upper
119	37181	100	100
134	24.1	5.7	45.7
91	33.5	6.8	46.8





#91
 d-Limonene
 Concen: 20.85 ng
 RT: 19.06 min Scan# 2849
 Delta R.T. -0.000 min
 Lab File: 03212319.D
 Acq: 21 Mar 2023 16:15

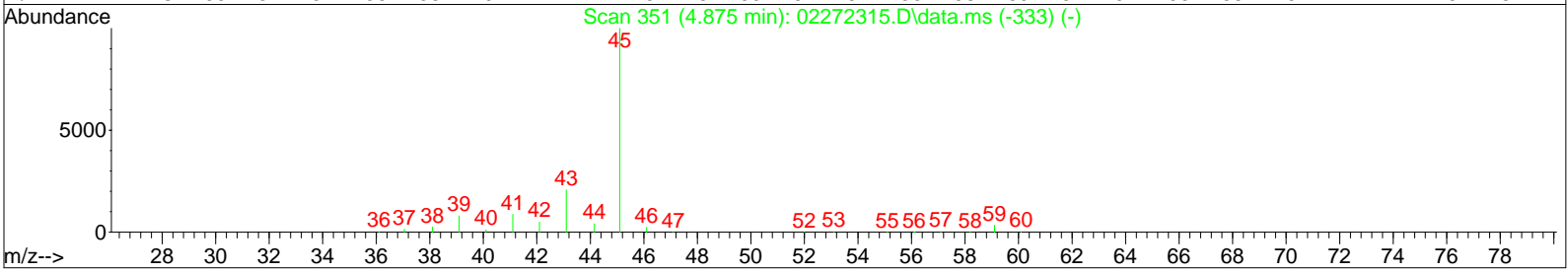
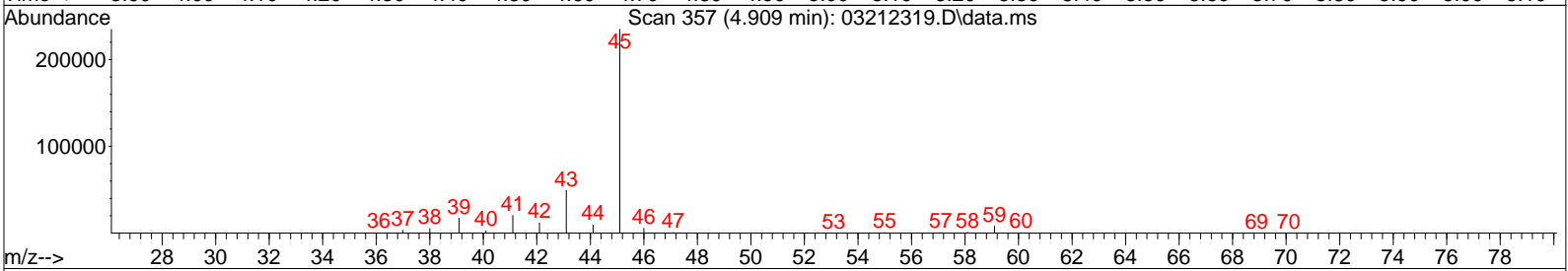
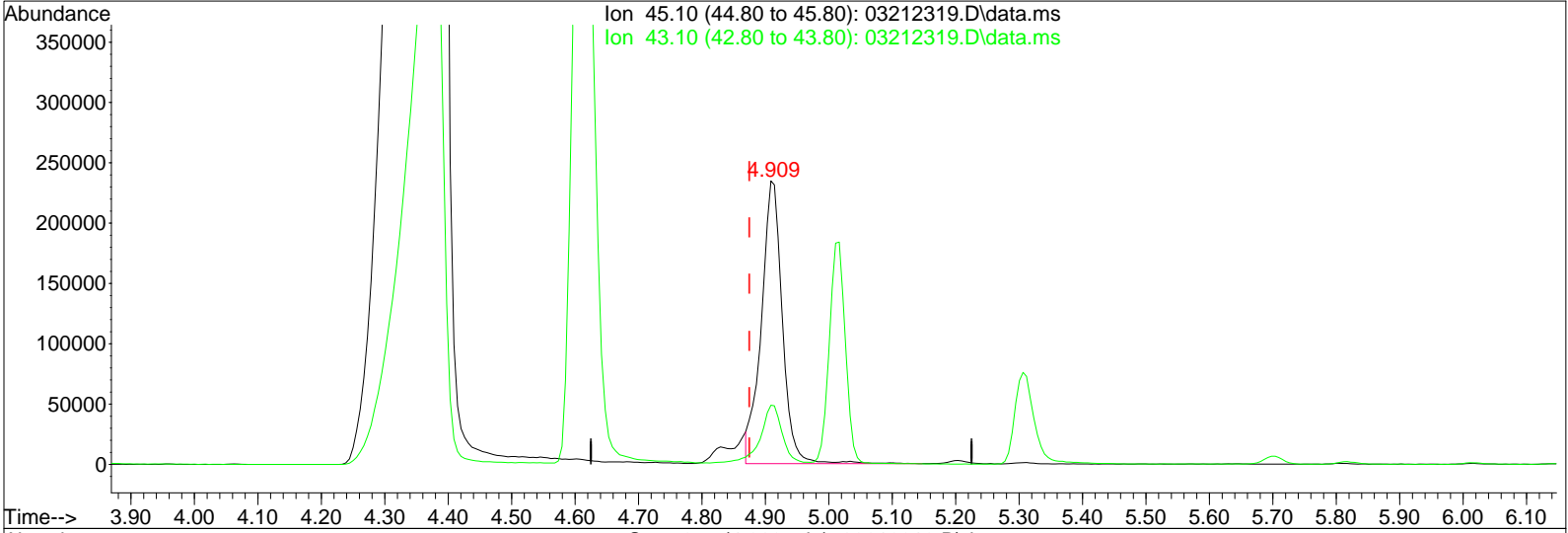
Tgt Ion	Resp	Lower	Upper
68	100		
93	73.7	55.7	95.7



Data File : I:\MS09\DATA\2023 03\21\03212319.D
 Acq On : 21 Mar 2023 16:15
 Sample : P2301184-008 (1000ml)
 Misc : S35-02212305

Vial: 11
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 21 20:14:50 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



TIC: 03212319.D\data.ms

(15) 2-Propanol (Isopropanol) (T)

4.909min (+0.034) 11.62ng

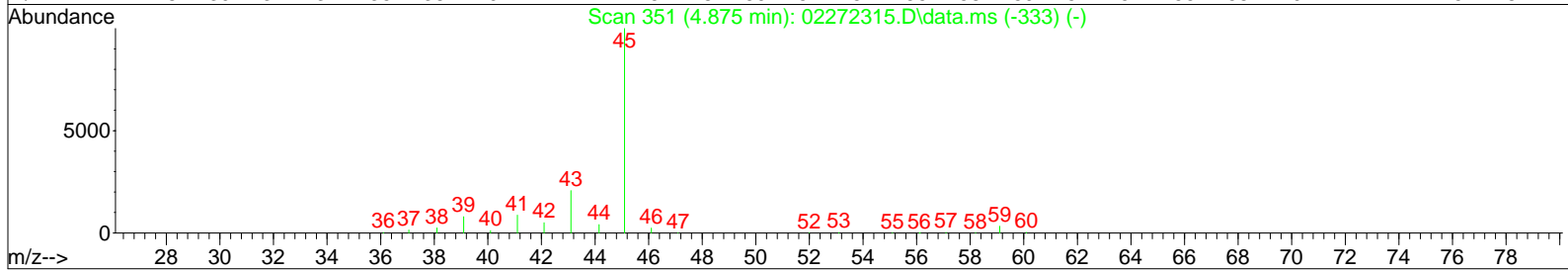
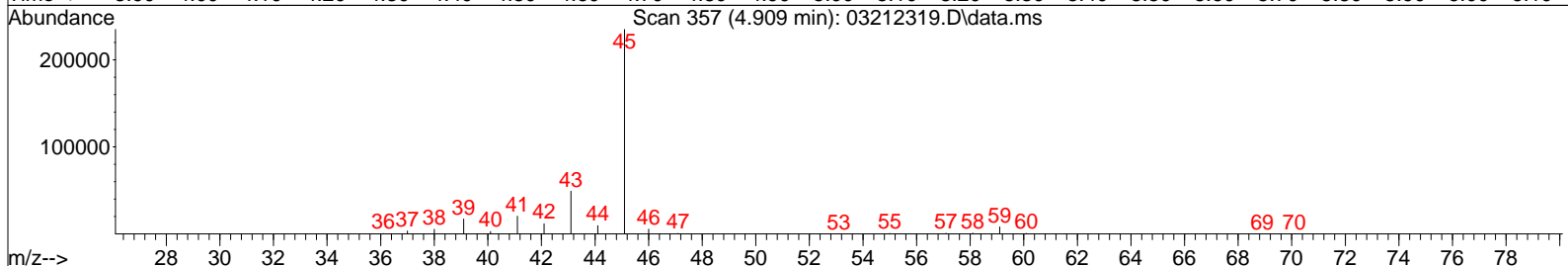
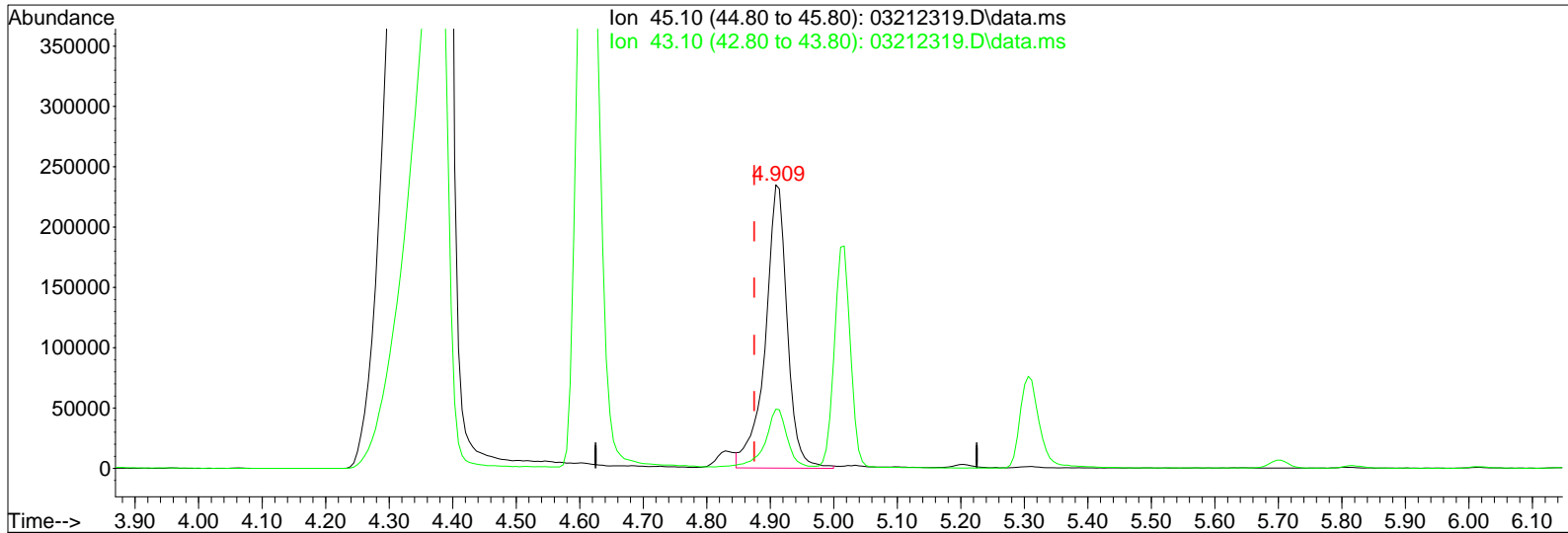
response 541961

Ion	Exp%	Act%
45.10	100	100
43.10	21.60	21.36
0.00	0.00	0.00
0.00	0.00	0.00

Data File : I:\MS09\DATA\2023 03\21\03212319.D
 Acq On : 21 Mar 2023 16:15
 Sample : P2301184-008 (1000ml)
 Misc : S35-02212305

Vial: 11
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 21 20:14:50 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



TIC: 03212319.D\data.ms

(15) 2-Propanol (Isopropanol) (T)

4.909min (+0.034) 12.11ng m

IC-

response 564910

Ion	Exp%	Act%
45.10	100	100
43.10	21.60	20.49
0.00	0.00	0.00
0.00	0.00	0.00

IDA 3/22/23

TZ 3/22/23

Data File : I:\MS09\DATA\2023 03\21\03212337.D
 Acq On : 22 Mar 2023 5:23
 Sample : P2301184-008dil (200ml)
 Misc : S35-02212305

Vial: 11
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 22 06:53:21 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

WA 3/22/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	7.20	130	174652	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	9.26	114	769684	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.80	54	167347	12.500	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.96	65	368789	12.473	ng	-0.04
Spiked Amount	12.500	Range 70 - 130	Recovery =	99.76%		
57) Toluene-d8 (SS2)	12.39	98	894848	14.073	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery =	112.56%		
73) Bromofluorobenzene (SS3)	16.79	174	262917	10.140	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery =	81.12%		

Target Compounds

						Qvalue
2) Propene	3.26	42	18129	0.780	ng	# 84
3) Dichlorodifluoromethan...	3.33	85	13162	0.326	ng	98
4) Chloromethane	3.49	50	5456	0.215	ng	92
5) 1,2-Dichloro-1,1,2,2-t...	3.60	135	353	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	3.80	54	713	N.D.		
8) Bromomethane	4.01	94	3081	0.239	ng	90
9) Chloroethane	4.15	64	119	N.D.		
10) Ethanol	4.33	45	2079109	125.447	ng	99
11) Acetonitrile	0.00	41	0	N.D.	d	
12) Acrolein	4.53	56	1962	0.178	ng	97
13) Acetone	4.61	58	64151	5.108	ng	# 73
14) Trichlorofluoromethane	4.73	101	10409	0.259	ng	96
15) 2-Propanol (Isopropanol)	4.87	45	141594	2.888	ng	92
16) Acrylonitrile	0.00	53	0	N.D.	d	
17) 1,1-Dichloroethene	5.24	96	190	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.33	84	2197	0.133	ng	93
20) 3-Chloro-1-propene (Al...	5.45	41	368	N.D.		
21) Trichlorotrifluoroethane	5.57	151	1056	N.D.		
22) Carbon Disulfide	5.58	76	5829	0.097	ng	87
23) trans-1,2-Dichloroethene	6.12	61	342	N.D.		
24) 1,1-Dichloroethane	6.29	63	276	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)	6.66	72	5144	0.514	ng	98
28) cis-1,2-Dichloroethene	7.05	61	308	N.D.		
29) Diisopropyl Ether	7.26	87	300	N.D.		
30) Ethyl Acetate	7.26	61	19870	2.582	ng	99
31) n-Hexane	7.27	57	14172	0.443	ng	97
32) Chloroform	7.33	83	6626	0.189	ng	97
34) Tetrahydrofuran (THF)	7.75	72	4043	0.403	ng	# 91
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.08	62	1087	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	8.82	56	5172	No Calib		#
41) Benzene	8.87	78	14192	0.216	ng	100
42) Carbon Tetrachloride	9.03	117	2356	N.D.		
43) Cyclohexane	9.18	84	3842	0.157	ng	97
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	9.83	63	956	N.D.		
46) Bromodichloromethane	10.04	83	1112	N.D.		
47) Trichloroethene	10.10	130	350	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	10.19	57	13270	0.165	ng	96
50) Methyl Methacrylate	10.38	100	365	N.D.		

Data File : I:\MS09\DATA\2023 03\21\03212337.D
 Acq On : 22 Mar 2023 5:23
 Sample : P2301184-008dil (200ml)
 Misc : S35-02212305

Vial: 11
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 22 06:53:21 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

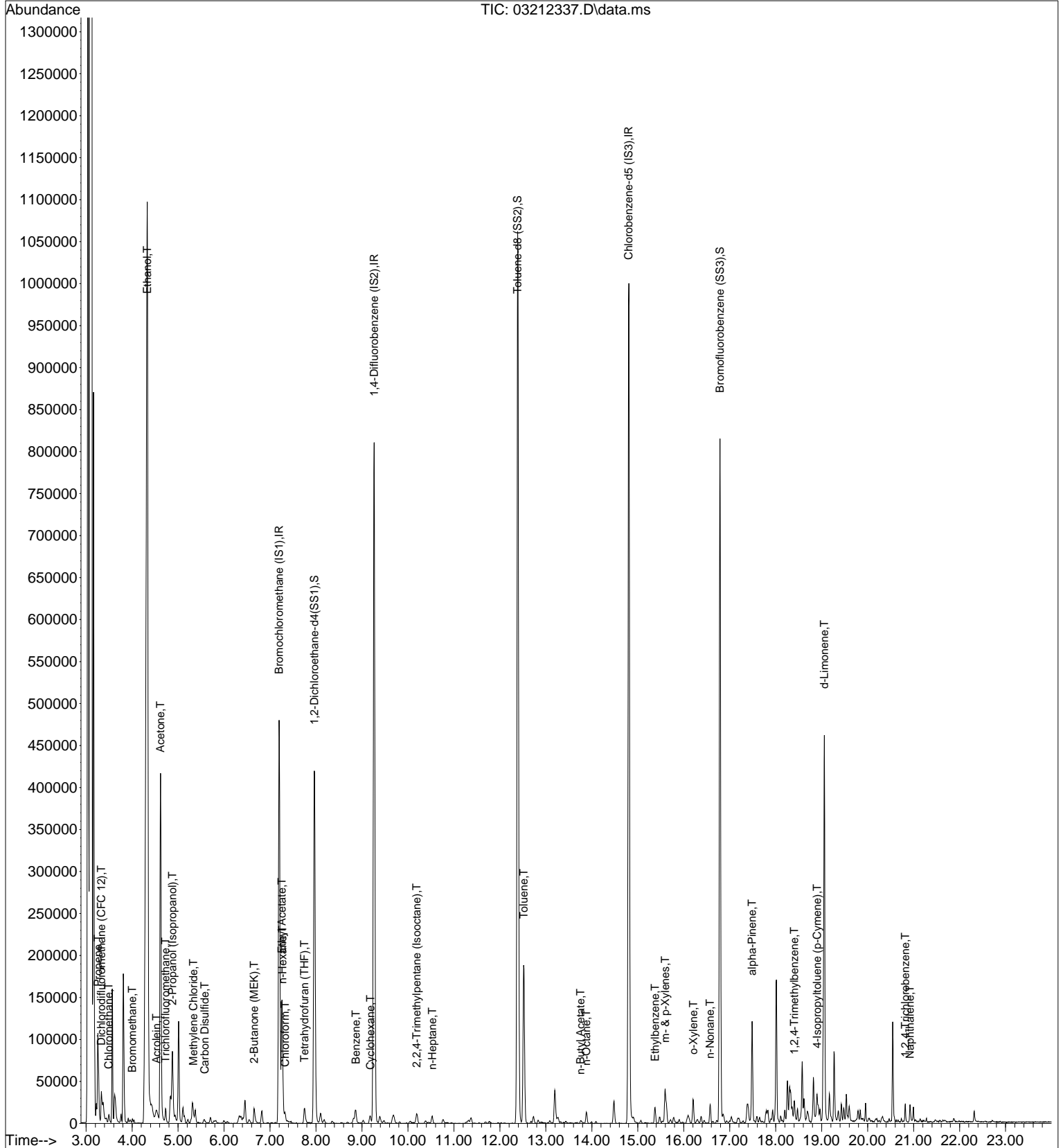
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.53	71	1951	0.119	ng	97
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.32	58	1009	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.52	91	167573	2.475	ng	97
59) 2-Hexanone	12.91	43	3332	N.D.		
60) Dibromochloromethane	13.04	129	557	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.76	43	4589	0.097	ng	93
63) n-Octane	13.88	57	2272	0.154	ng	91
64) Tetrachloroethene	13.99	166	731	N.D.		
65) Chlorobenzene	14.86	112	1465	N.D.		
66) Ethylbenzene	15.37	91	15738	0.203	ng	100
67) m- & p-Xylenes	15.60	91	38953	0.611	ng	99
68) Bromoform	15.65	173	129	N.D.		
69) Styrene	16.08	104	3189	N.D.		
70) o-Xylene	16.21	91	15443	0.246	ng	98
71) n-Nonane	16.57	43	10932	0.276	ng	96
72) 1,1,2,2-Tetrachloroethane	16.18	83	625	N.D.		
74) Cumene	17.00	105	2391	N.D.		
75) alpha-Pinene	17.49	93	48447	1.485	ng	97
76) n-Propylbenzene	17.65	91	5330	N.D.		
77) 3-Ethyltoluene	17.00	105	2391	No Calib		
78) 4-Ethyltoluene	17.83	105	4593	N.D.		
79) 1,3,5-Trimethylbenzene	17.93	105	3934	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.00	105	2391	No Calib		
82) 1,2,4-Trimethylbenzene	18.41	105	9293	0.139	ng	91
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	18.55	91	1154	N.D.		
85) 1,3-Dichlorobenzene	18.56	146	1754	N.D.		
86) 1,4-Dichlorobenzene	18.63	146	2251	N.D.		
87) sec-Butylbenzene	18.71	105	2586	N.D.		
88) 4-Isopropyltoluene (p-...	18.90	119	14212	0.187	ng	95
89) 1,2,3-Trimethylbenzene	17.00	105	2391	No Calib		
90) 1,2-Dichlorobenzene	19.01	146	1644	N.D.		
91) d-Limonene	19.06	68	94273	4.215	ng	97
92) 1,2-Dibromo-3-Chloropr...	19.49	157	838	N.D.		
93) n-Undecane	18.10	58	175	No Calib	#	
94) 1,2,4-Trichlorobenzene	20.82	180	5961	0.201	ng	99
95) Naphthalene	20.92	128	16904	0.287	ng	97
96) n-Dodecane	19.04	58	3878	No Calib	#	
97) Hexachlorobutadiene	21.28	225	825	N.D.		
98) Cyclohexanone	15.21	55	291	No Calib	#	
99) tert-Butylbenzene	18.40	119	2514	N.D.		
100) n-Butylbenzene	19.37	91	4828	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\21\03212337.D
Acq On : 22 Mar 2023 5:23
Sample : P2301184-008dil (200ml)
Misc : S35-02212305

Vial: 11
Operator: WA/SR
Inst : MS09

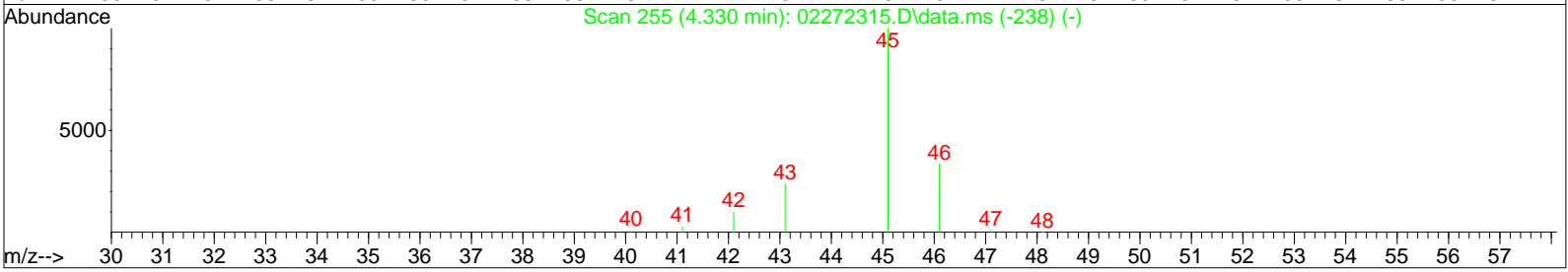
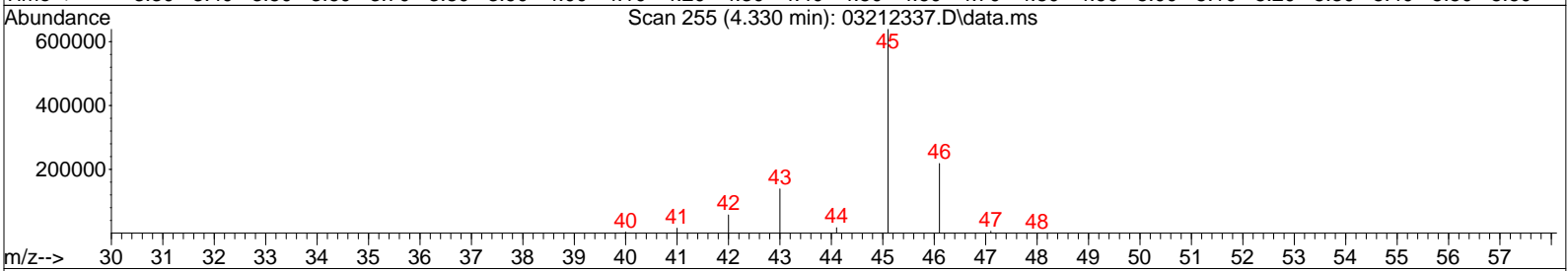
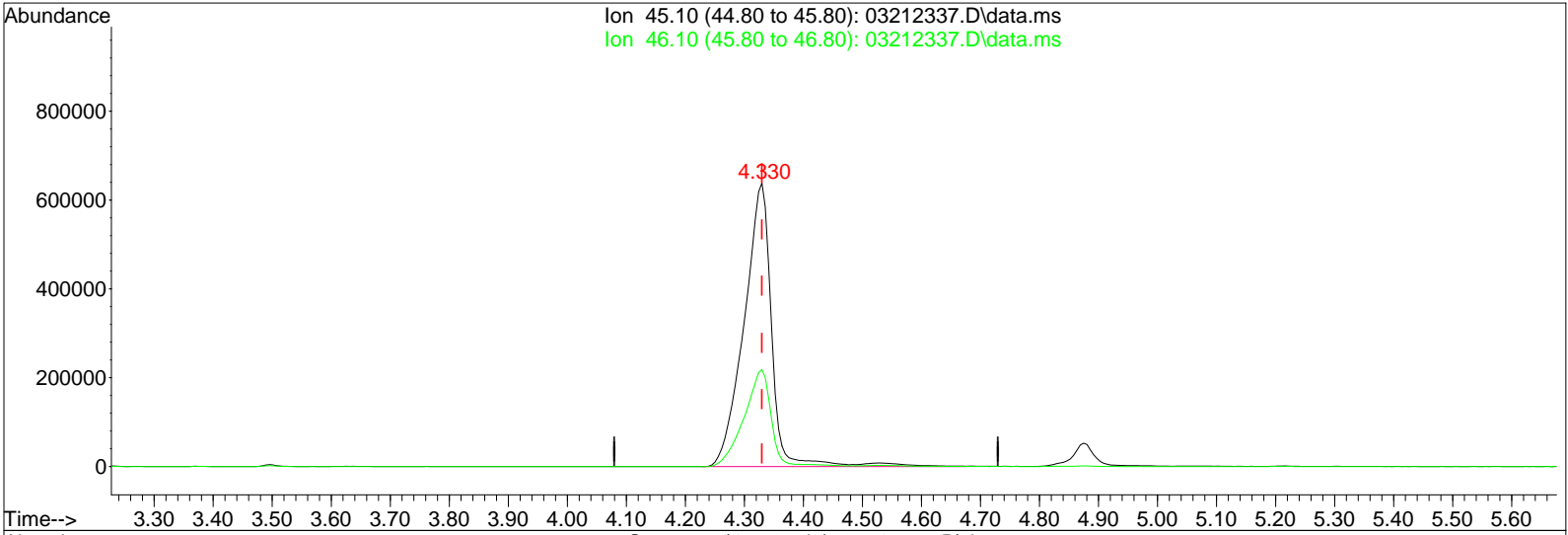
Quant Time: Mar 22 06:53:21 2023
Quant Method : I:\MS09\METHODS\R9022723.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Feb 28 08:30:18 2023
Response via : Initial Calibration
DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2023 03\21\03212337.D
 Acq On : 22 Mar 2023 5:23
 Sample : P2301184-008dil (200ml)
 Misc : S35-02212305

Vial: 11
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 22 06:51:18 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



TIC: 03212337.D\data.ms

(10) Ethanol (T)

4.330min (-0.000) 125.45ng

response 2079109

Ion	Exp%	Act%
45.10	100	100
46.10	33.40	34.10
0.00	0.00	0.00
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: New York State DEC
Client Sample ID: Building-4-SS1-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-009

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS00380

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.55 Final Pressure (psig): 3.58

Canister Dilution Factor: 1.29

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	1.5	0.68	0.87	0.40	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	0.68	0.44	0.14	
74-87-3	Chloromethane	0.61	0.27	0.29	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.67	ND	0.096	
75-01-4	Vinyl Chloride	ND	0.14	ND	0.056	
106-99-0	1,3-Butadiene	ND	0.27	ND	0.12	
74-83-9	Bromomethane	ND	0.27	ND	0.070	
75-00-3	Chloroethane	ND	0.27	ND	0.10	
64-17-5	Ethanol	9.9	6.5	5.3	3.4	
75-05-8	Acetonitrile	ND	1.3	ND	0.77	
107-02-8	Acrolein	ND	1.3	ND	0.56	
67-64-1	Acetone	ND	6.8	ND	2.9	
75-69-4	Trichlorofluoromethane (CFC 11)	1.1	0.67	0.20	0.12	
67-63-0	2-Propanol (Isopropyl Alcohol)	2.3	1.3	0.92	0.54	
107-13-1	Acrylonitrile	ND	1.3	ND	0.59	
75-35-4	1,1-Dichloroethene	ND	0.14	ND	0.036	
75-09-2	Methylene Chloride	ND	0.68	ND	0.20	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.68	ND	0.22	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.70	ND	0.091	
75-15-0	Carbon Disulfide	ND	1.4	ND	0.44	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	ND	0.036	
75-34-3	1,1-Dichloroethane	ND	0.14	ND	0.035	
1634-04-4	Methyl tert-Butyl Ether	ND	0.70	ND	0.19	
108-05-4	Vinyl Acetate	ND	6.5	ND	1.8	
78-93-3	2-Butanone (MEK)	1.6	1.3	0.54	0.46	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3

Client: New York State DEC
Client Sample ID: Building-4-SS1-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-009

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS00380

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.55 Final Pressure (psig): 3.58

Canister Dilution Factor: 1.29

CAS #	Compound	Result $\mu\text{g}/\text{m}^3$	MRL $\mu\text{g}/\text{m}^3$	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.14	ND	0.036	
141-78-6	Ethyl Acetate	21	2.7	5.8	0.75	
110-54-3	n-Hexane	1.3	0.68	0.37	0.19	
67-66-3	Chloroform	ND	0.14	ND	0.029	
109-99-9	Tetrahydrofuran (THF)	2.4	0.65	0.82	0.22	
107-06-2	1,2-Dichloroethane	0.17	0.14	0.042	0.035	
71-55-6	1,1,1-Trichloroethane	ND	0.14	ND	0.026	
71-43-2	Benzene	0.97	0.14	0.30	0.044	
56-23-5	Carbon Tetrachloride	ND	0.14	ND	0.023	
110-82-7	Cyclohexane	ND	1.4	ND	0.39	
78-87-5	1,2-Dichloropropane	0.49	0.14	0.11	0.031	
75-27-4	Bromodichloromethane	ND	0.14	ND	0.021	
79-01-6	Trichloroethene	ND	0.14	ND	0.026	
123-91-1	1,4-Dioxane	ND	0.68	ND	0.19	
80-62-6	Methyl Methacrylate	ND	1.4	ND	0.35	
142-82-5	n-Heptane	0.88	0.68	0.21	0.17	
10061-01-5	cis-1,3-Dichloropropene	ND	0.70	ND	0.15	
108-10-1	4-Methyl-2-pentanone	ND	1.4	ND	0.35	
10061-02-6	trans-1,3-Dichloropropene	ND	0.66	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.14	ND	0.026	
108-88-3	Toluene	16	0.68	4.2	0.18	
591-78-6	2-Hexanone	ND	1.4	ND	0.35	
124-48-1	Dibromochloromethane	ND	0.14	ND	0.017	
106-93-4	1,2-Dibromoethane	ND	0.14	ND	0.018	
123-86-4	n-Butyl Acetate	ND	1.3	ND	0.27	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3 of 3

Client: New York State DEC
Client Sample ID: Building-4-SS1-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-009

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS00380

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.55 Final Pressure (psig): 3.58

Canister Dilution Factor: 1.29

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.70	ND	0.15	
127-18-4	Tetrachloroethene	3.3	0.14	0.48	0.021	
108-90-7	Chlorobenzene	ND	0.68	ND	0.15	
100-41-4	Ethylbenzene	1.7	0.68	0.38	0.16	
179601-23-1	m,p-Xylenes	5.0	1.4	1.1	0.33	
75-25-2	Bromoform	ND	0.70	ND	0.067	
100-42-5	Styrene	ND	0.68	ND	0.16	
95-47-6	o-Xylene	1.9	0.68	0.44	0.16	
111-84-2	n-Nonane	ND	0.68	ND	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	ND	0.021	
98-82-8	Cumene	ND	0.70	ND	0.14	
80-56-8	alpha-Pinene	1.6	1.4	0.28	0.25	
103-65-1	n-Propylbenzene	ND	0.70	ND	0.14	
622-96-8	4-Ethyltoluene	ND	0.71	ND	0.14	
108-67-8	1,3,5-Trimethylbenzene	ND	0.68	ND	0.14	
95-63-6	1,2,4-Trimethylbenzene	0.70	0.68	0.14	0.14	
100-44-7	Benzyl Chloride	ND	2.7	ND	0.53	
541-73-1	1,3-Dichlorobenzene	ND	0.68	ND	0.11	
106-46-7	1,4-Dichlorobenzene	ND	0.68	ND	0.11	
95-50-1	1,2-Dichlorobenzene	ND	0.70	ND	0.12	
5989-27-5	d-Limonene	2.3	1.4	0.42	0.25	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.4	ND	0.15	
120-82-1	1,2,4-Trichlorobenzene	ND	1.4	ND	0.19	
91-20-3	Naphthalene	ND	0.71	ND	0.14	
87-68-3	Hexachlorobutadiene	ND	0.68	ND	0.064	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Data File : I:\MS09\DATA\2023 03\21\03212320.D
 Acq On : 21 Mar 2023 16:47
 Sample : P2301184-009 (1000ml)
 Misc : S35-02212305

Vial: 12
 Operator: WA/SR
 Inst : MS09

407 3/22/23

Quant Time: Mar 22 04:53:36 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	7.20	130	165379	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.27	114	744989	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.81	54	168381	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.97	65	355424	12.695	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery	=	101.52%	
57) Toluene-d8 (SS2)	12.39	98	884162	13.819	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	110.56%	
73) Bromofluorobenzene (SS3)	16.79	174	269856	10.343	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	82.72%	

Target Compounds

						Qvalue
2) Propene	3.28	42	25565	1.162	ng	86
3) Dichlorodifluoromethan...	3.34	85	64335	1.685	ng	96
4) Chloromethane	3.47	50	11321	0.472	ng	# 42
5) 1,2-Dichloro-1,1,2,2-t...	3.59	135	1156	N.D.		
6) Vinyl Chloride	3.68	62	125	N.D.		
7) 1,3-Butadiene	3.74	54	254	N.D.		
8) Bromomethane	4.01	94	274	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	4.27	45	120305	7.666	ng	98
11) Acetonitrile	4.44	41	2587	N.D.		
12) Acrolein	4.52	56	1275	0.122	ng	# 76
13) Acetone	0.00	58	0	N.D.	d	
14) Trichlorofluoromethane	4.73	101	33278	0.874	ng	98
15) 2-Propanol (Isopropanol)	4.83	45	81455	1.754	ng	97
16) Acrylonitrile	5.01	53	1971	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	5.33	84	7622	0.486	ng	99
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	5.56	151	4847	0.281	ng	# 80
22) Carbon Disulfide	5.59	76	21568	0.378	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	6.28	73	979	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	6.65	72	11737	1.238	ng	98
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	7.25	61	117673	16.146	ng	98
31) n-Hexane	7.27	57	30873	1.020	ng	98
32) Chloroform	7.34	83	2957	N.D.		
34) Tetrahydrofuran (THF)	7.73	72	17782	1.873	ng	100
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.09	62	3813	0.132	ng	97
38) 1,1,1-Trichloroethane	8.36	97	2661	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	8.79	56	11268	No Calib	#	
41) Benzene	8.86	78	47981	0.755	ng	98
42) Carbon Tetrachloride	9.03	117	2633	0.094	ng	92
43) Cyclohexane	9.18	84	15374	0.650	ng	98
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	9.83	63	6856	0.383	ng	98
46) Bromodichloromethane	10.07	83	603	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...	10.20	57	99709	1.282	ng	97
50) Methyl Methacrylate	10.38	100	638	0.106	ng	# 38

Data File : I:\MS09\DATA\2023 03\21\03212320.D
 Acq On : 21 Mar 2023 16:47
 Sample : P2301184-009 (1000ml)
 Misc : S35-02212305

Vial: 12
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 22 04:53:36 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

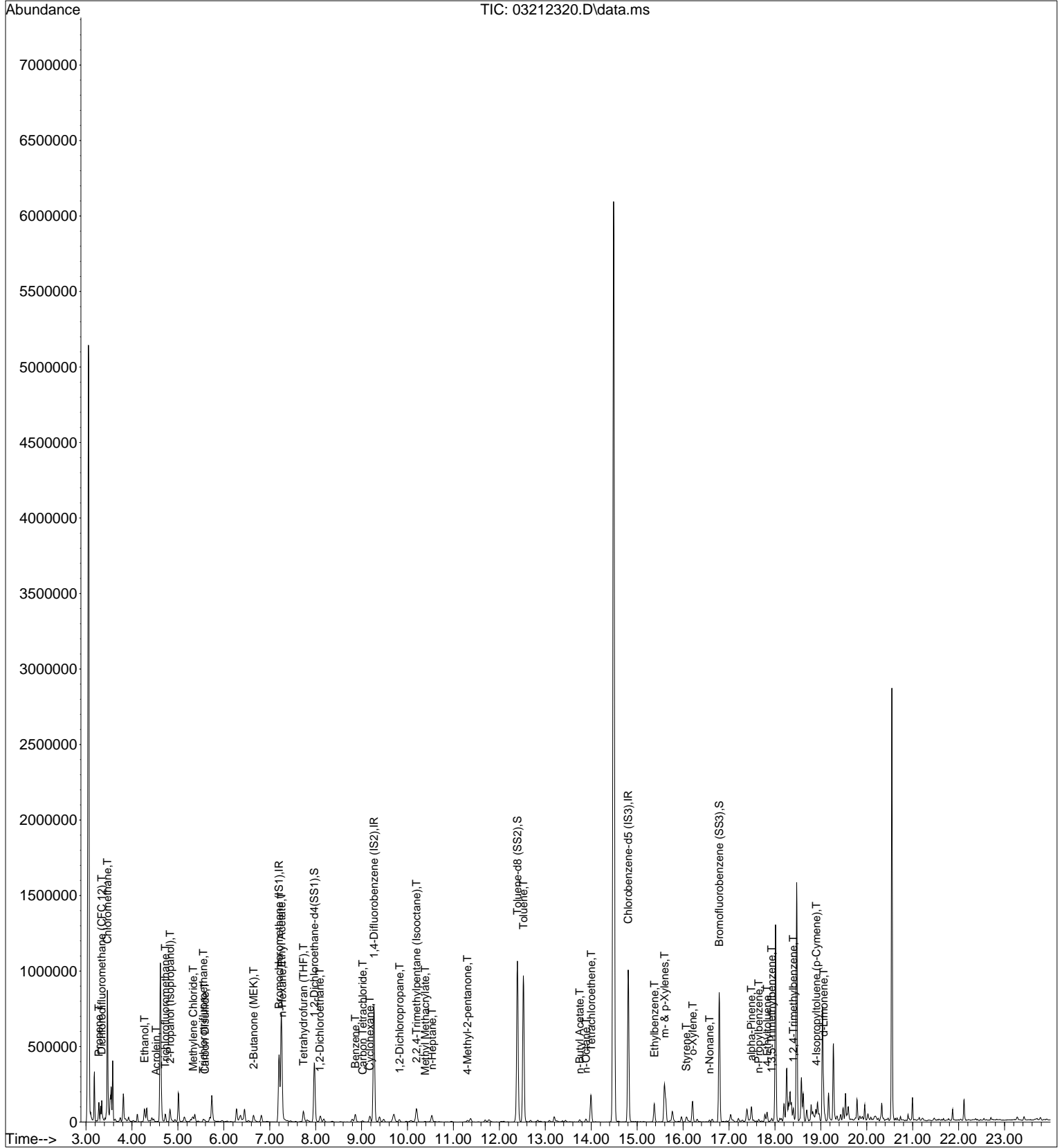
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
51) n-Heptane	10.54	71	10769	0.680	ng	100
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.30	58	3363	0.216	ng #	62
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.52	91	830242	12.188	ng	97
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	13.75	43	17102	0.359	ng	99
63) n-Octane	13.89	57	3878	0.261	ng	92
64) Tetrachloroethene	14.00	166	59515	2.534	ng	100
65) Chlorobenzene	14.86	112	498	N.D.		
66) Ethylbenzene	15.37	91	100685	1.289	ng	100
67) m- & p-Xylenes	15.60	91	247670	3.863	ng	97
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.07	104	12101	0.299	ng	98
70) o-Xylene	16.21	91	93943	1.487	ng	99
71) n-Nonane	16.58	43	6442	0.162	ng	91
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	17.00	105	6089	N.D.		
75) alpha-Pinene	17.49	93	39763	1.211	ng	97
76) n-Propylbenzene	17.64	91	13776	0.148	ng	98
77) 3-Ethyltoluene	17.00	105	6089	No Calib		
78) 4-Ethyltoluene	17.83	105	15107	0.205	ng	100
79) 1,3,5-Trimethylbenzene	17.93	105	9784	0.148	ng	95
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.00	105	6089	No Calib		
82) 1,2,4-Trimethylbenzene	18.40	105	36697	0.546	ng	90
83) n-Decane	17.03	58	1454	No Calib	#	
84) Benzyl Chloride	18.58	91	247	N.D.		
85) 1,3-Dichlorobenzene	18.55	146	1016	N.D.		
86) 1,4-Dichlorobenzene	18.63	146	464	N.D.		
87) sec-Butylbenzene	18.71	105	1273	N.D.		
88) 4-Isopropyltoluene (p-...	18.90	119	13041	0.171	ng	87
89) 1,2,3-Trimethylbenzene	17.00	105	6089	No Calib		
90) 1,2-Dichlorobenzene	19.01	146	175	N.D.		
91) d-Limonene	19.06	68	40774	1.812	ng	98
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.08	58	2316	No Calib		
94) 1,2,4-Trichlorobenzene	20.82	180	179	N.D.		
95) Naphthalene	20.92	128	3216	N.D.		
96) n-Dodecane	19.04	58	19303	No Calib	#	
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	15.27	55	411	No Calib	#	
99) tert-Butylbenzene	18.41	119	4520	N.D.		
100) n-Butylbenzene	19.36	91	2950	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\21\03212320.D
Acq On : 21 Mar 2023 16:47
Sample : P2301184-009 (1000ml)
Misc : S35-02212305

Vial: 12
Operator: WA/SR
Inst : MS09

Quant Time: Mar 22 04:53:36 2023
Quant Method : I:\MS09\METHODS\R9022723.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Feb 28 08:30:18 2023
Response via : Initial Calibration
DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2023 03\21\03212320.D
 Acq On : 21 Mar 2023 16:47
 Sample : P2301184-009 (1000ml)
 Misc : S35-02212305

Vial: 12
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 22 04:53:36 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

DA 3/22/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	7.20	130	165379	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.27	114	744989	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.81	54	168381	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.97	65	355424	12.695	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery	=	101.52%	
57) Toluene-d8 (SS2)	12.39	98	884162	13.819	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	110.56%	
73) Bromofluorobenzene (SS3)	16.79	174	269856	10.343	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	82.72%	

Target Compounds

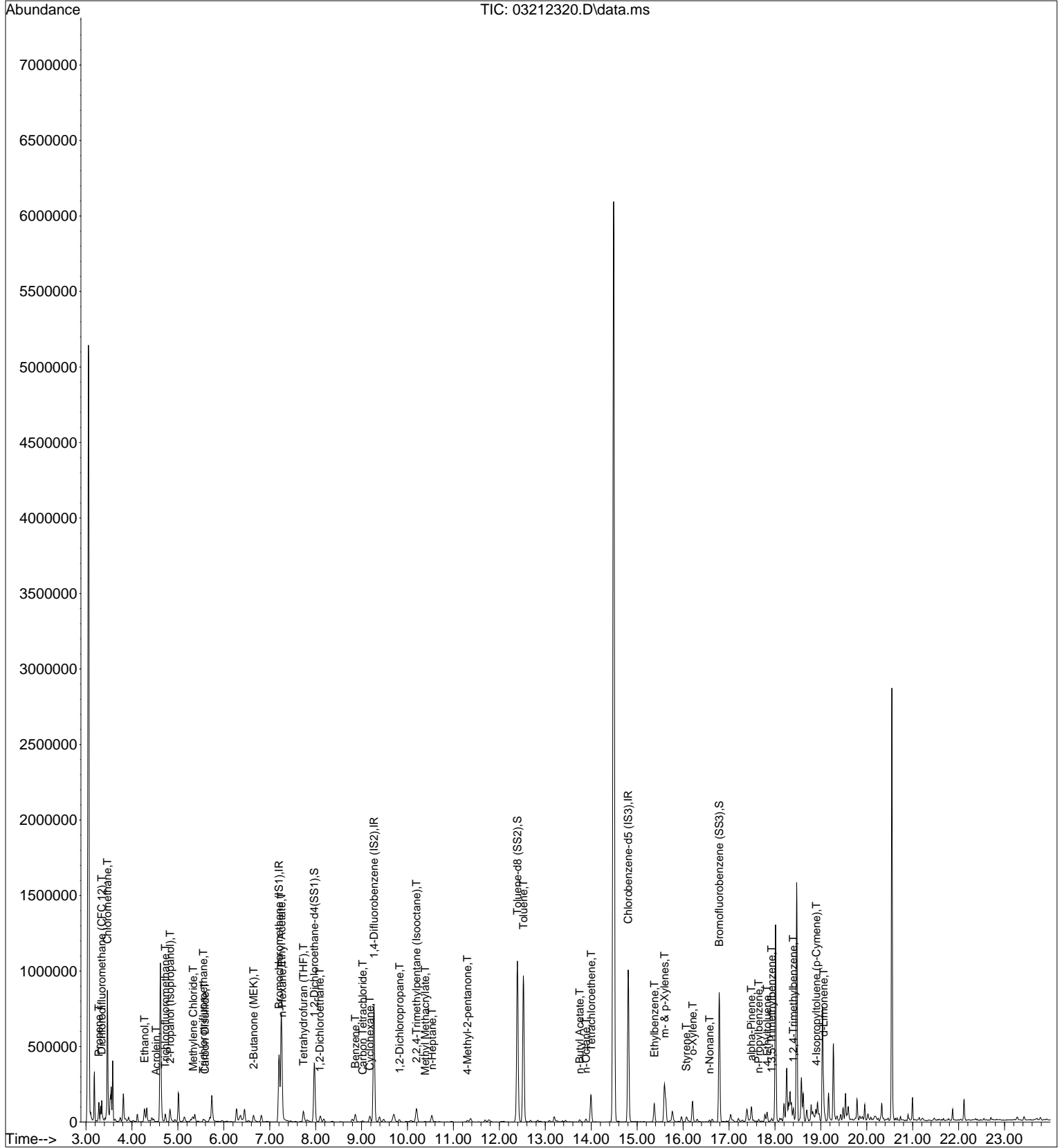
	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.28	42	25565	1.162	ng	86
3) Dichlorodifluoromethan...	3.34	85	64335	1.685	ng	96
4) Chloromethane	3.47	50	11321	0.472	ng #	42
10) Ethanol	4.27	45	120305	7.666	ng	98
12) Acrolein	4.52	56	1275	0.122	ng #	76
14) Trichlorofluoromethane	4.73	101	33278	0.874	ng	98
15) 2-Propanol (Isopropanol)	4.83	45	81455	1.754	ng	97
19) Methylene Chloride	5.33	84	7622	0.486	ng	99
21) Trichlorotrifluoroethane	5.56	151	4847	0.281	ng #	80
22) Carbon Disulfide	5.59	76	21568	0.378	ng	100
27) 2-Butanone (MEK)	6.65	72	11737	1.238	ng	98
30) Ethyl Acetate	7.25	61	117673	16.146	ng	98
31) n-Hexane	7.27	57	30873	1.020	ng	98
34) Tetrahydrofuran (THF)	7.73	72	17782	1.873	ng	100
36) 1,2-Dichloroethane	8.09	62	3813	0.132	ng	97
41) Benzene	8.86	78	47981	0.755	ng	98
42) Carbon Tetrachloride	9.03	117	2633	0.094	ng	92
43) Cyclohexane	9.18	84	15374	0.650	ng	98
45) 1,2-Dichloropropane	9.83	63	6856	0.383	ng	98
49) 2,2,4-Trimethylpentane...	10.20	57	99709	1.282	ng	97
50) Methyl Methacrylate	10.38	100	638	0.106	ng #	38
51) n-Heptane	10.54	71	10769	0.680	ng	100
53) 4-Methyl-2-pentanone	11.30	58	3363	0.216	ng #	62
58) Toluene	12.52	91	830242	12.188	ng	97
62) n-Butyl Acetate	13.75	43	17102	0.359	ng	99
63) n-Octane	13.89	57	3878	0.261	ng	92
64) Tetrachloroethene	14.00	166	59515	2.534	ng	100
66) Ethylbenzene	15.37	91	100685	1.289	ng	100
67) m- & p-Xylenes	15.60	91	247670	3.863	ng	97
69) Styrene	16.07	104	12101	0.299	ng	98
70) o-Xylene	16.21	91	93943	1.487	ng	99
71) n-Nonane	16.58	43	6442	0.162	ng	91
75) alpha-Pinene	17.49	93	39763	1.211	ng	97
76) n-Propylbenzene	17.64	91	13776	0.148	ng	98
78) 4-Ethyltoluene	17.83	105	15107	0.205	ng	100
79) 1,3,5-Trimethylbenzene	17.93	105	9784	0.148	ng	95
82) 1,2,4-Trimethylbenzene	18.40	105	36697	0.546	ng	90
88) 4-Isopropyltoluene (p-...	18.90	119	13041	0.171	ng	87
91) d-Limonene	19.06	68	40774	1.812	ng	98

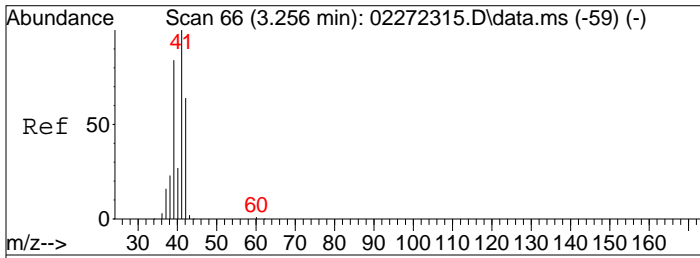
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS09\DATA\2023 03\21\03212320.D
Acq On : 21 Mar 2023 16:47
Sample : P2301184-009 (1000ml)
Misc : S35-02212305

Vial: 12
Operator: WA/SR
Inst : MS09

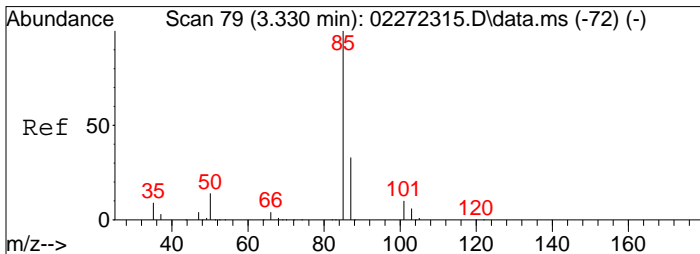
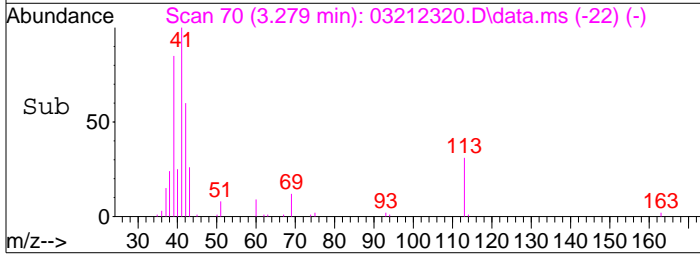
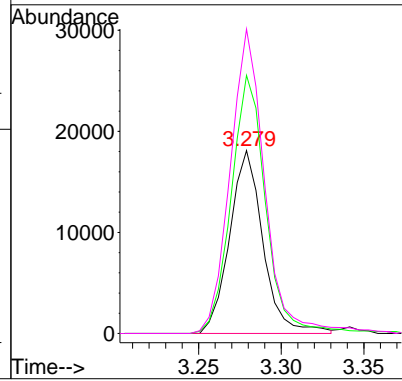
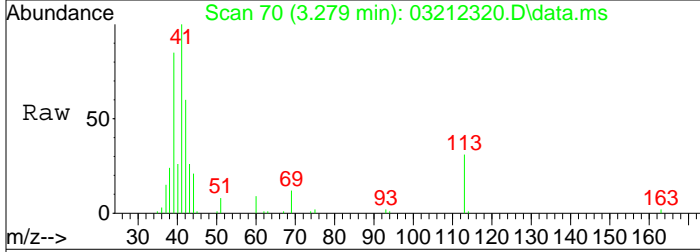
Quant Time: Mar 22 04:53:36 2023
Quant Method : I:\MS09\METHODS\R9022723.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Feb 28 08:30:18 2023
Response via : Initial Calibration
DataAcq Meth:TO15.M





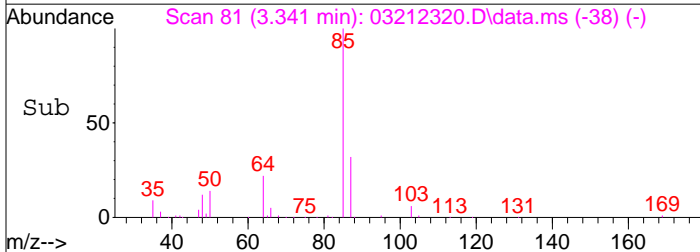
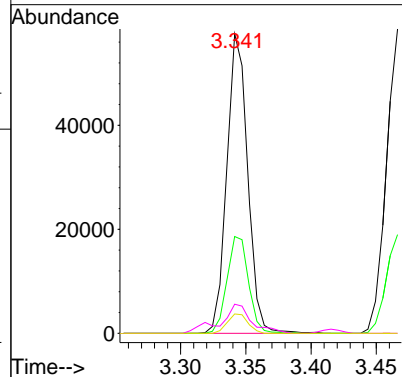
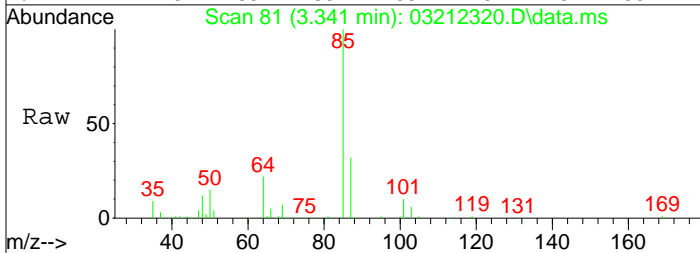
#2
 Propene
 Concen: 1.16 ng
 RT: 3.28 min Scan# 70
 Delta R.T. 0.022 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

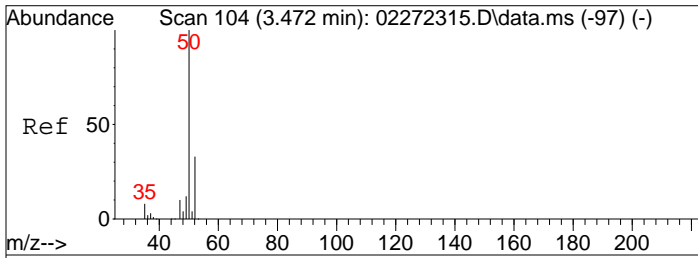
Tgt Ion:	42	Resp:	25565
Ion Ratio	Lower	Upper	
42	100		
39	146.7	110.0	150.0
41	172.6	135.8	175.8



#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.68 ng
 RT: 3.34 min Scan# 81
 Delta R.T. -0.009 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

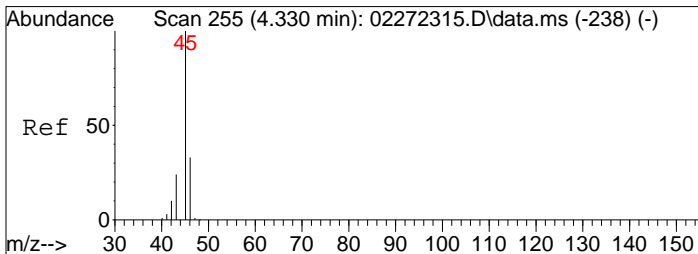
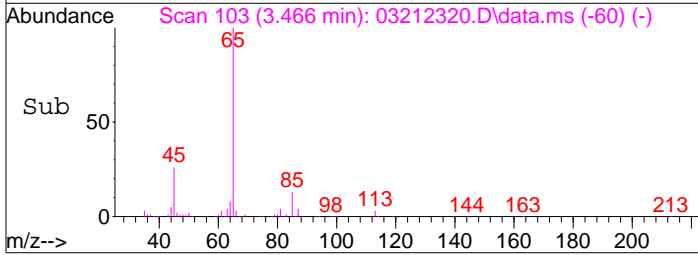
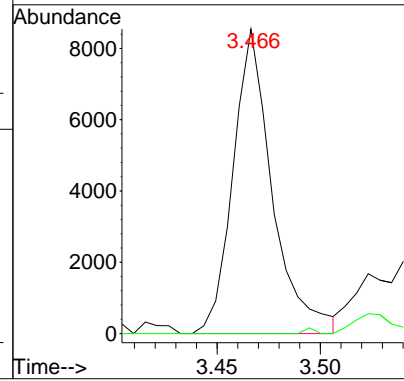
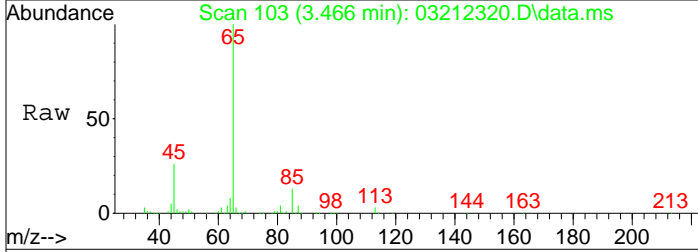
Tgt Ion:	85	Resp:	64335
Ion Ratio	Lower	Upper	
85	100		
87	33.3	12.3	52.3
101	14.5	0.0	29.7
103	6.4	0.0	26.3





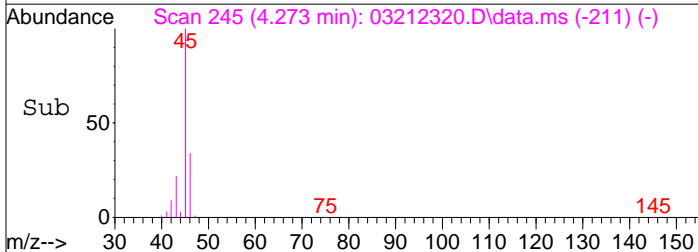
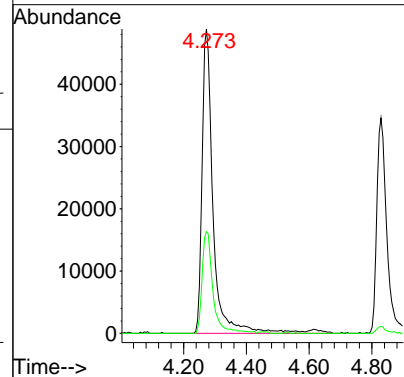
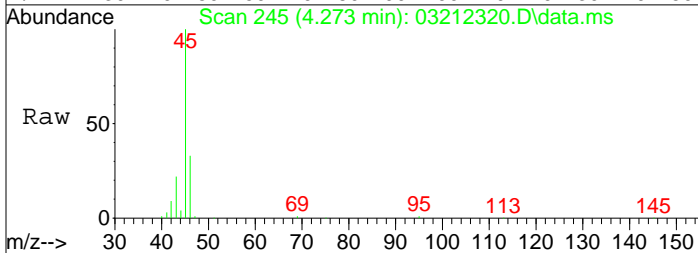
#4
 Chloromethane
 Concen: 0.47 ng
 RT: 3.47 min Scan# 103
 Delta R.T. -0.006 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

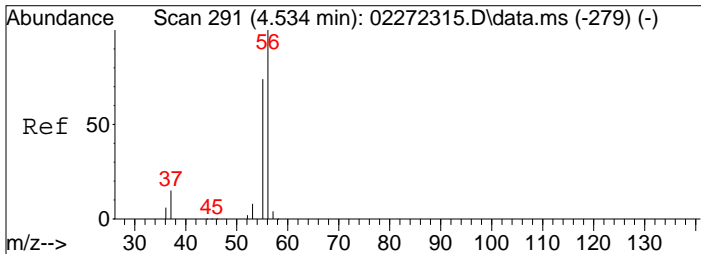
Tgt Ion: 50 Resp: 11321
 Ion Ratio Lower Upper
 50 100
 52 0.0 12.8 52.8#



#10
 Ethanol
 Concen: 7.67 ng
 RT: 4.27 min Scan# 245
 Delta R.T. -0.057 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

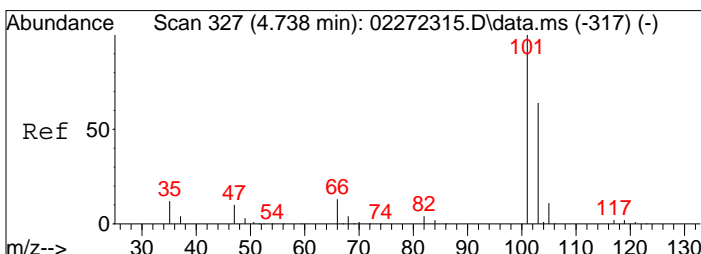
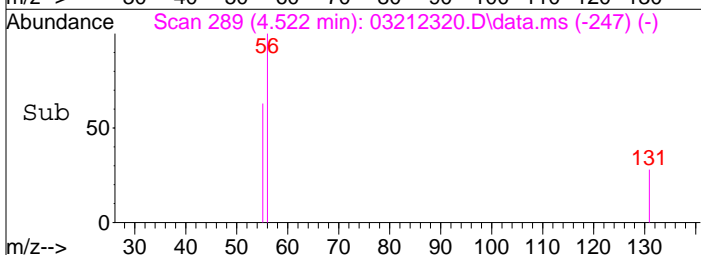
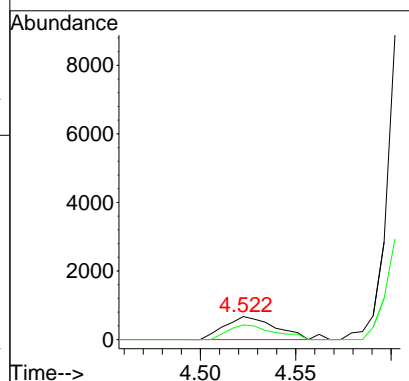
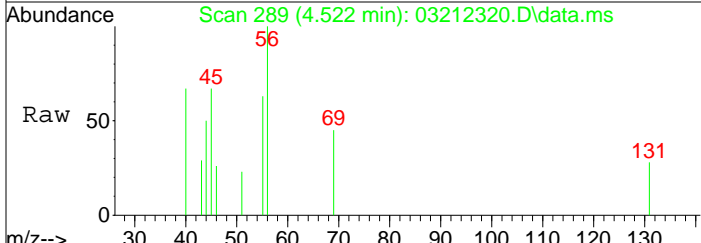
Tgt Ion: 45 Resp: 120305
 Ion Ratio Lower Upper
 45 100
 46 32.5 13.4 53.4





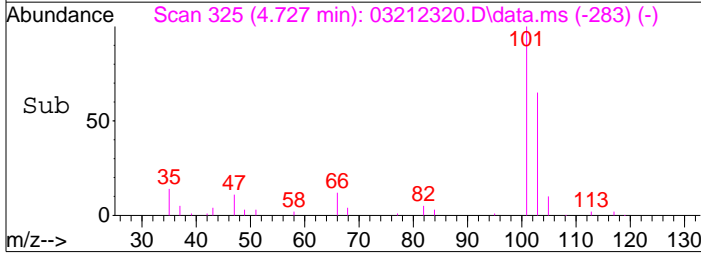
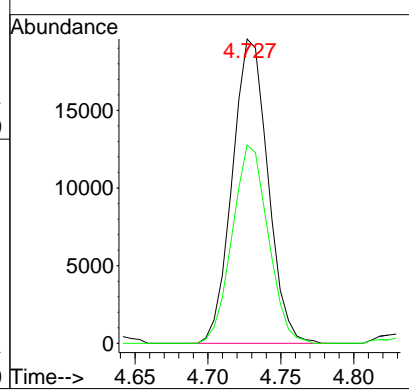
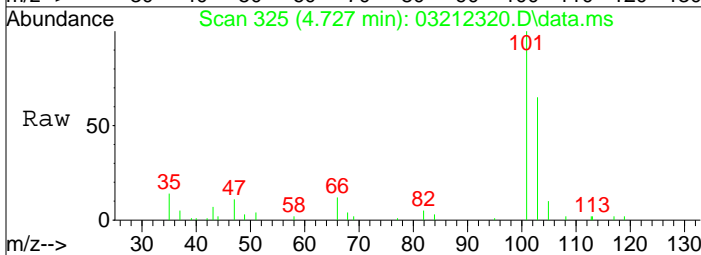
#12
 Acrolein
 Concen: 0.12 ng
 RT: 4.52 min Scan# 289
 Delta R.T. -0.012 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

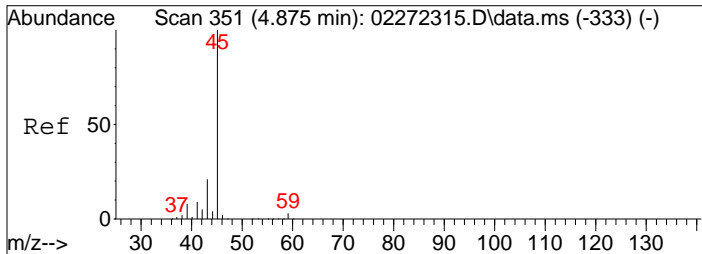
Tgt Ion	Resp	Lower	Upper
56	1275		
55	56.0	56.4	96.4#



#14
 Trichlorofluoromethane
 Concen: 0.87 ng
 RT: 4.73 min Scan# 325
 Delta R.T. -0.012 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

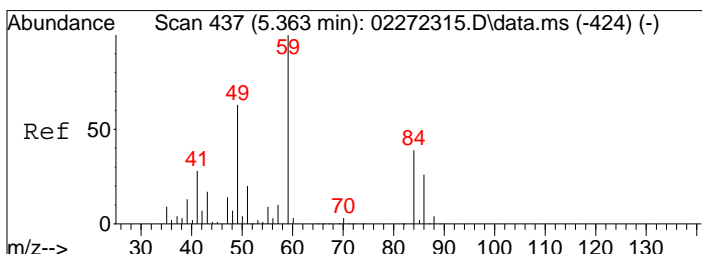
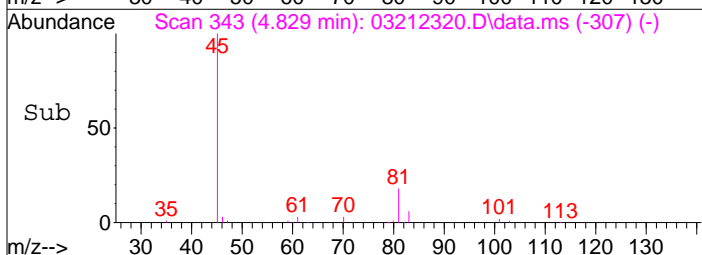
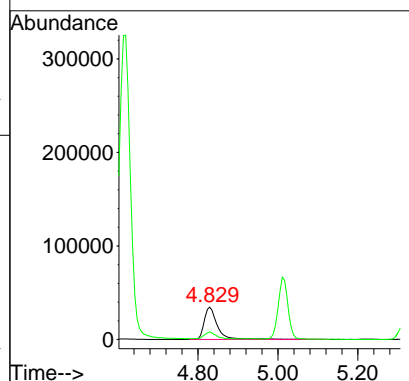
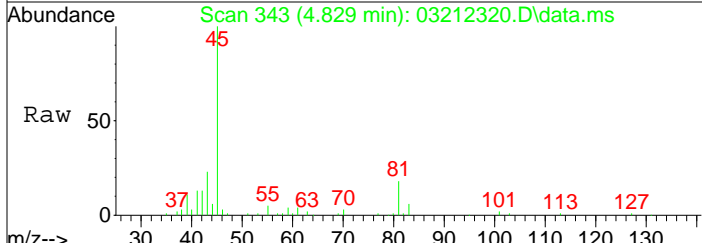
Tgt Ion	Resp	Lower	Upper
101	33278		
103	65.7	44.0	84.0





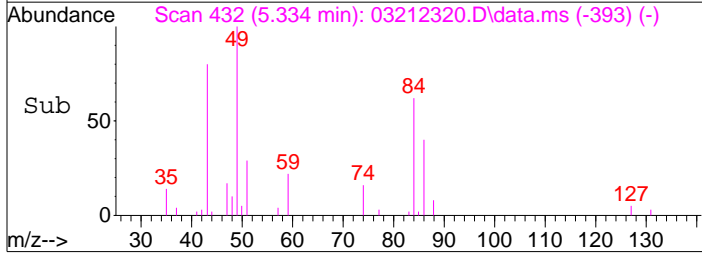
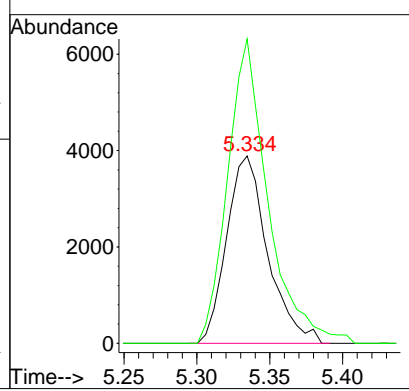
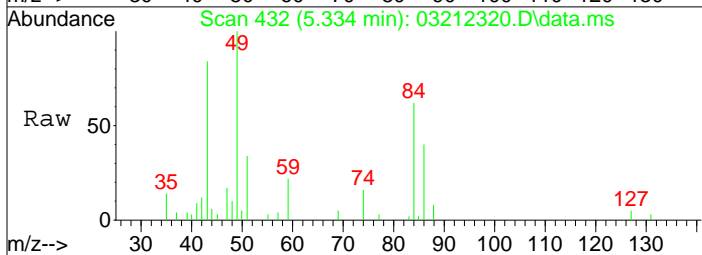
#15
 2-Propanol (Isopropanol)
 Concen: 1.75 ng
 RT: 4.83 min Scan# 343
 Delta R.T. -0.046 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

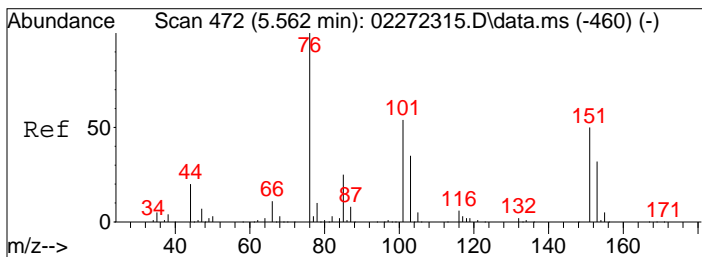
Tgt Ion	Resp	Lower	Upper
45	100		
43	20.1	1.6	41.6



#19
 Methylene Chloride
 Concen: 0.49 ng
 RT: 5.33 min Scan# 432
 Delta R.T. -0.029 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

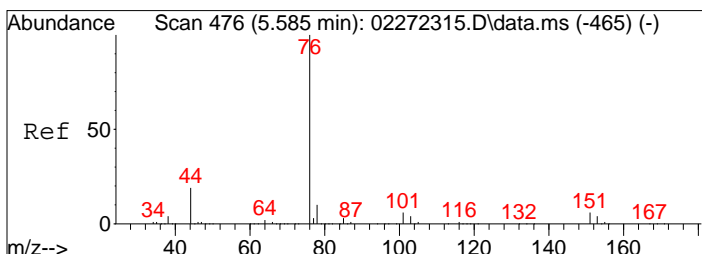
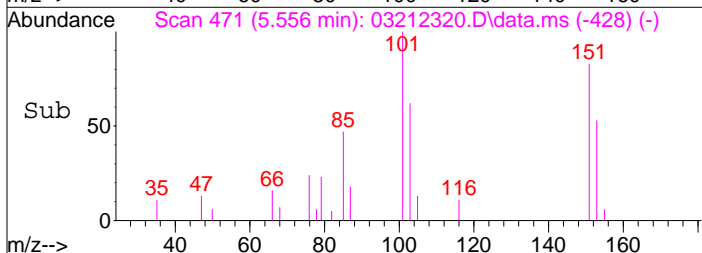
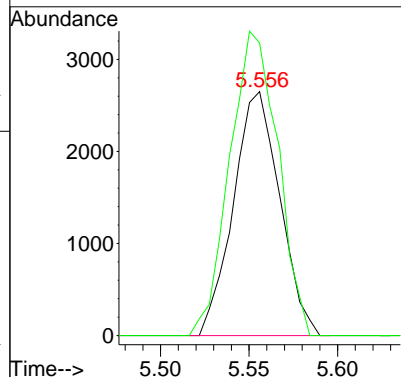
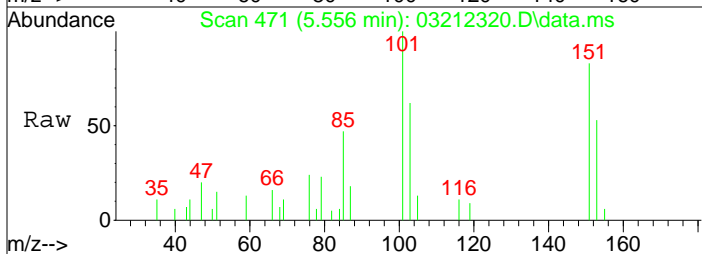
Tgt Ion	Resp	Lower	Upper
84	100		
49	159.6	136.0	186.0





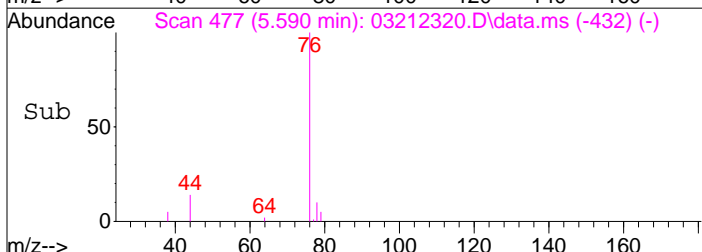
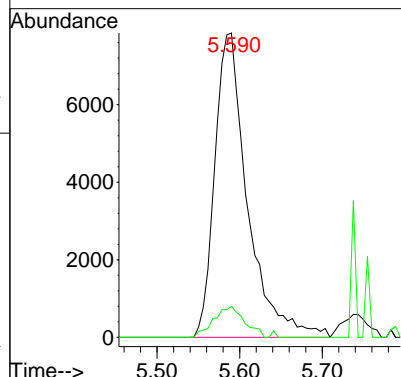
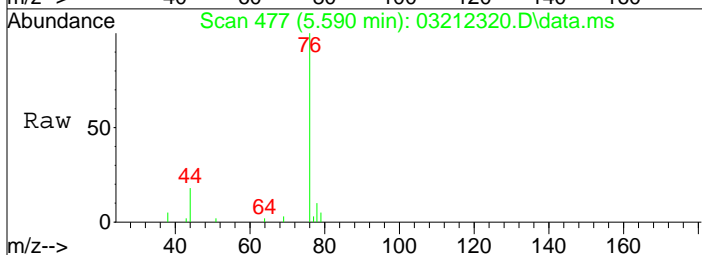
#21
 Trichlorotrifluoroethane
 Concen: 0.28 ng
 RT: 5.56 min Scan# 471
 Delta R.T. -0.006 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

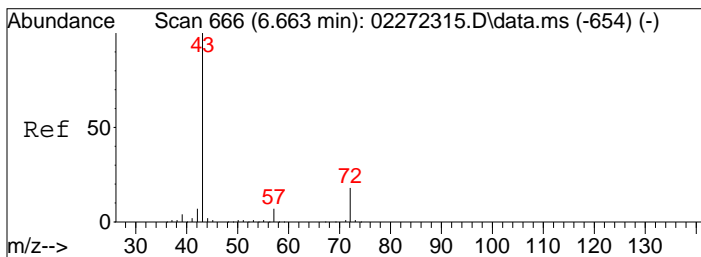
Tgt Ion: 151 Resp: 4847
 Ion Ratio Lower Upper
 151 100
 101 129.3 88.2 128.2#



#22
 Carbon Disulfide
 Concen: 0.38 ng
 RT: 5.59 min Scan# 477
 Delta R.T. 0.005 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

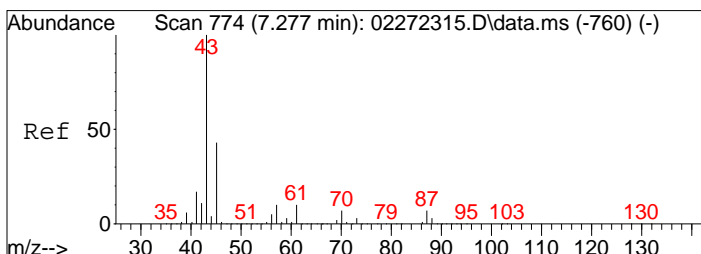
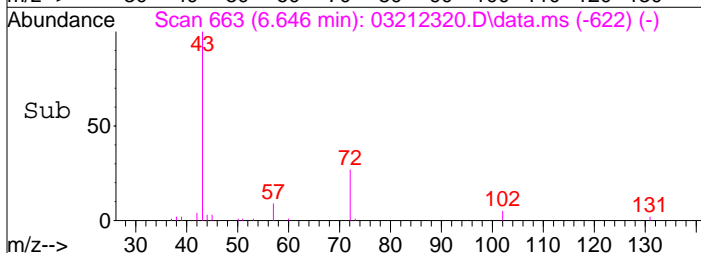
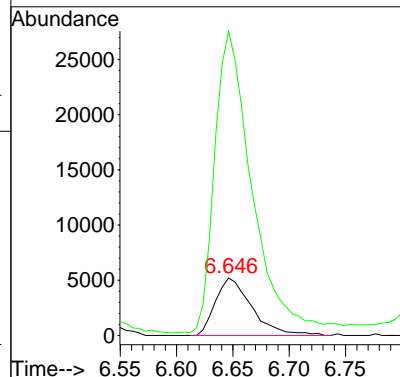
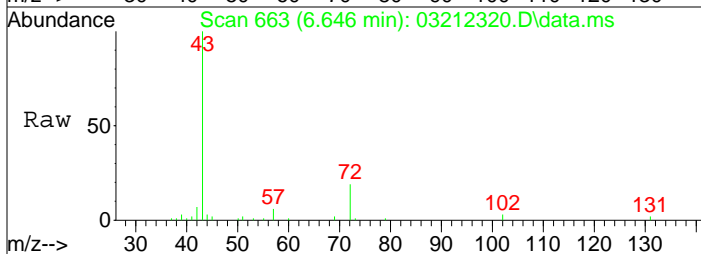
Tgt Ion: 76 Resp: 21568
 Ion Ratio Lower Upper
 76 100
 78 9.6 0.0 29.7





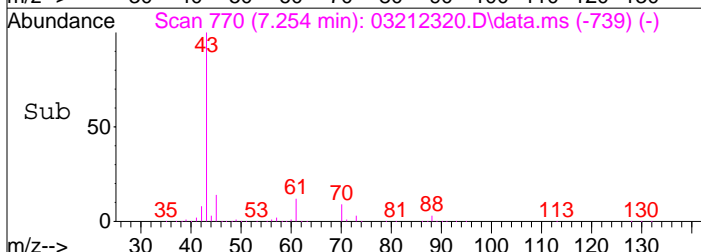
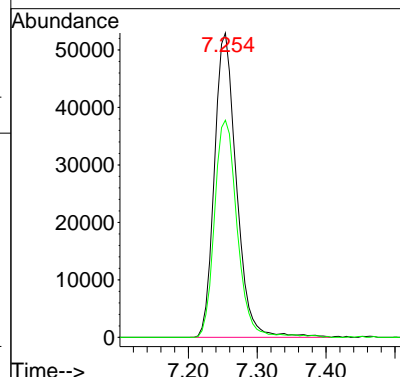
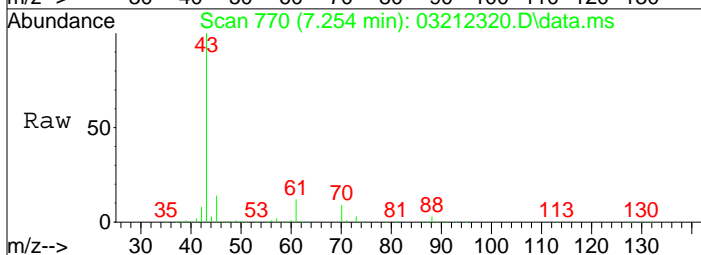
#27
 2-Butanone (MEK)
 Concen: 1.24 ng
 RT: 6.65 min Scan# 663
 Delta R.T. -0.017 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

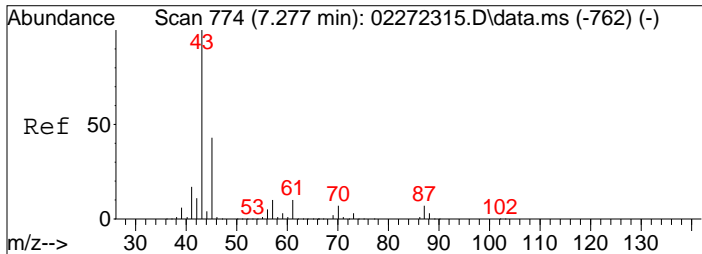
Tgt Ion: 72 Resp: 11737
 Ion Ratio Lower Upper
 72 100
 43 551.4 536.0 576.0



#30
 Ethyl Acetate
 Concen: 16.15 ng
 RT: 7.25 min Scan# 770
 Delta R.T. -0.023 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

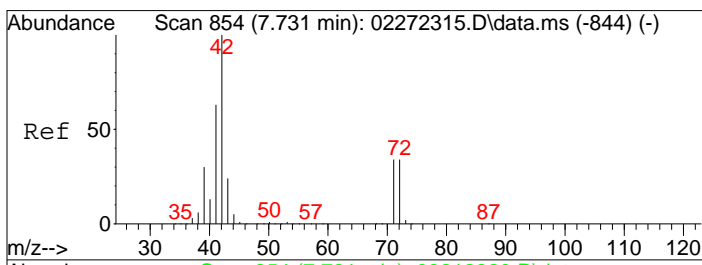
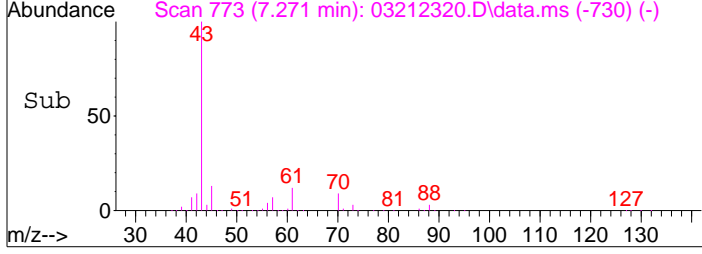
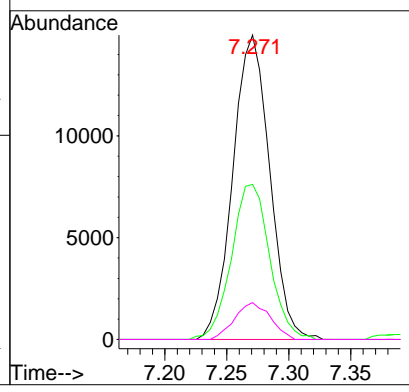
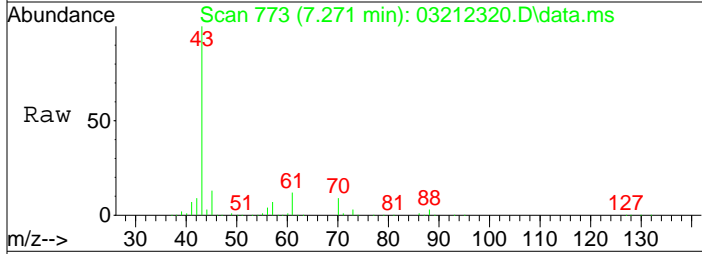
Tgt Ion: 61 Resp: 117673
 Ion Ratio Lower Upper
 61 100
 70 73.7 55.8 95.8





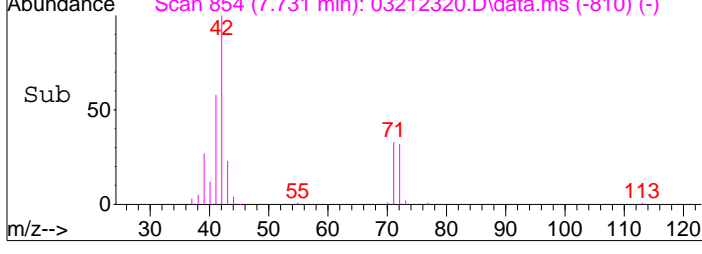
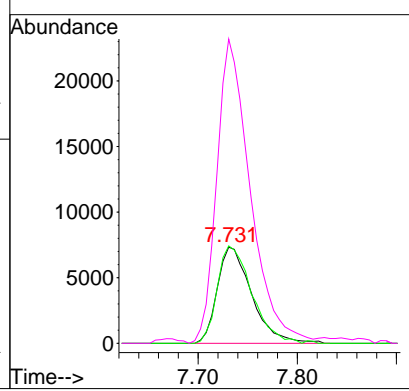
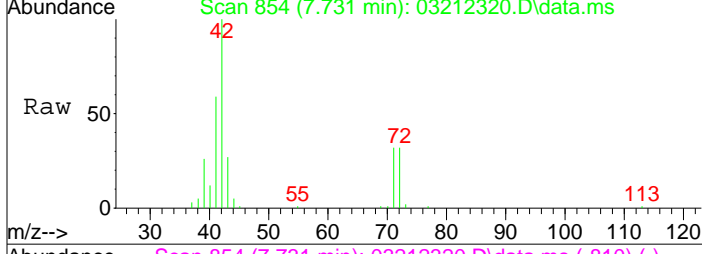
#31
 n-Hexane
 Concen: 1.02 ng
 RT: 7.27 min Scan# 773
 Delta R.T. -0.006 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

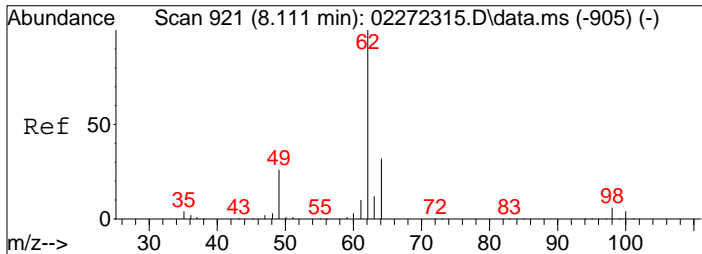
Tgt Ion	Resp	Lower	Upper
57	100		
56	52.8	43.3	64.9
86	11.8	10.2	15.2



#34
 Tetrahydrofuran (THF)
 Concen: 1.87 ng
 RT: 7.73 min Scan# 854
 Delta R.T. -0.000 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

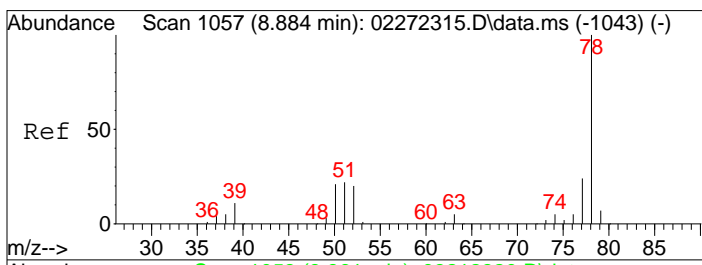
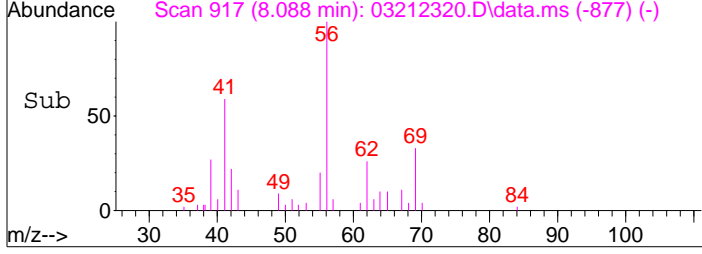
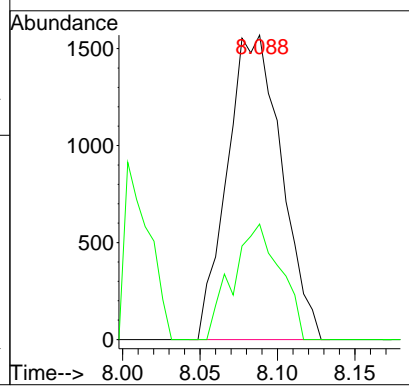
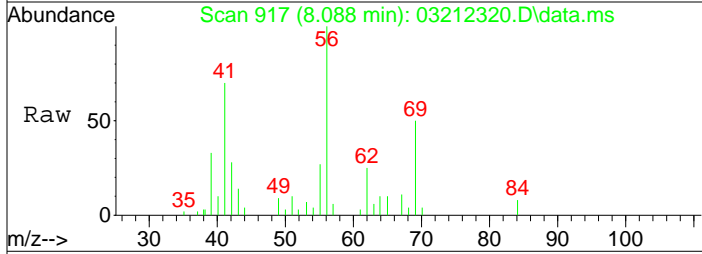
Tgt Ion	Resp	Lower	Upper
72	100		
71	100.8	81.3	121.3
42	313.6	293.7	333.7





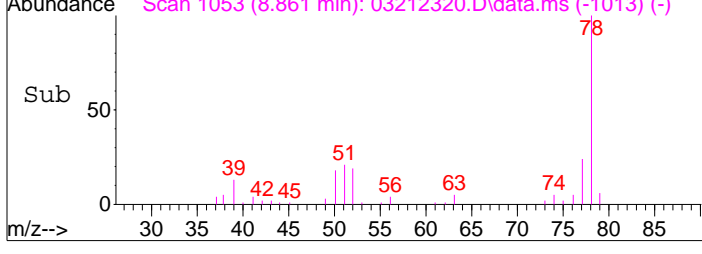
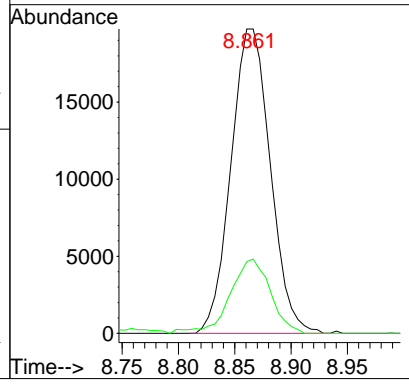
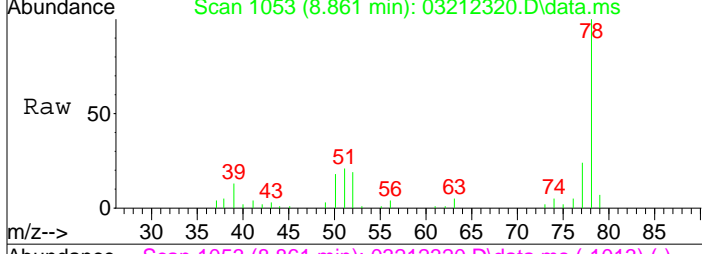
#36
 1,2-Dichloroethane
 Concen: 0.13 ng
 RT: 8.09 min Scan# 917
 Delta R.T. -0.023 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

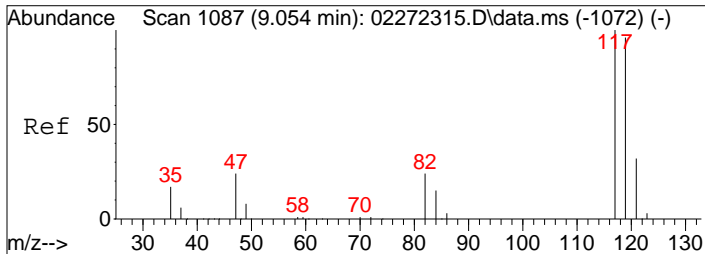
Tgt Ion	Resp	Lower	Upper
62	100		
64	33.4	12.0	52.0



#41
 Benzene
 Concen: 0.75 ng
 RT: 8.86 min Scan# 1053
 Delta R.T. -0.023 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

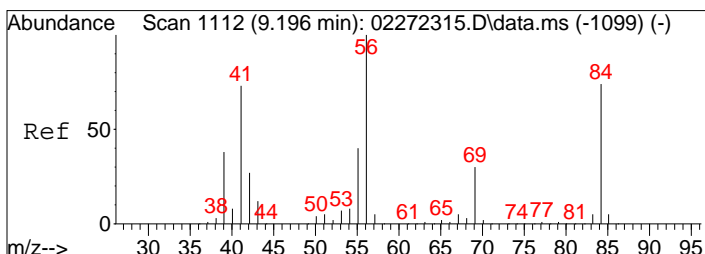
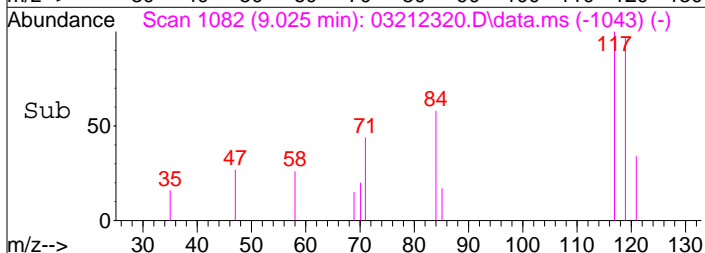
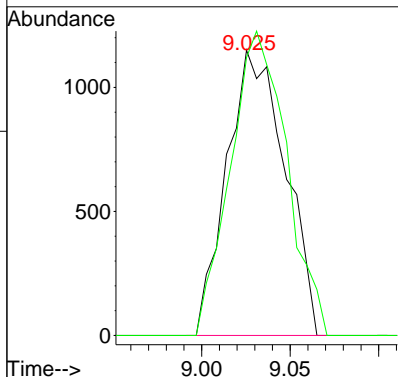
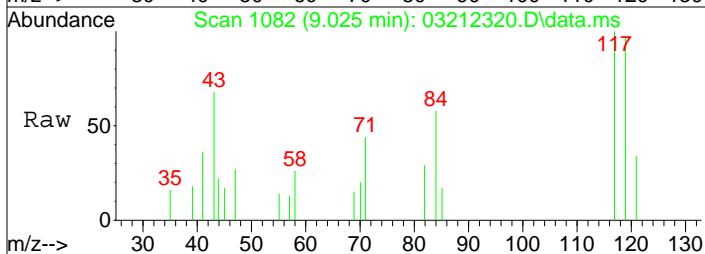
Tgt Ion	Resp	Lower	Upper
78	100		
77	25.0	4.0	44.0





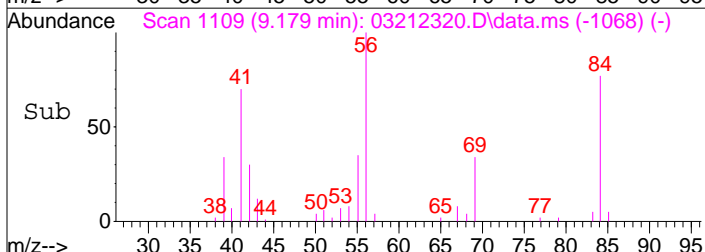
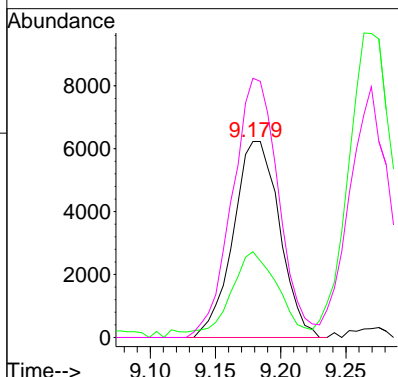
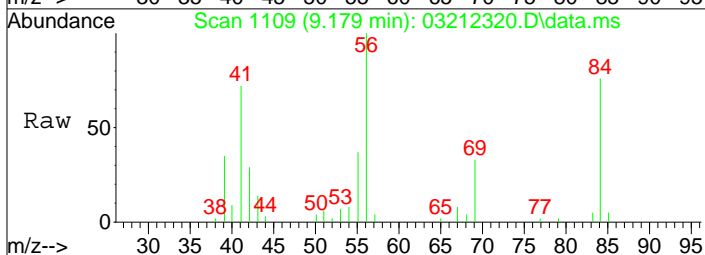
#42
 Carbon Tetrachloride
 Concen: 0.09 ng
 RT: 9.03 min Scan# 1082
 Delta R.T. -0.029 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

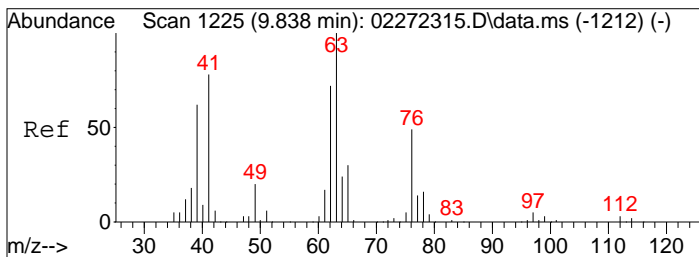
Tgt Ion: 117 Resp: 2633
 Ion Ratio Lower Upper
 117 100
 119 103.0 75.5 115.5



#43
 Cyclohexane
 Concen: 0.65 ng
 RT: 9.18 min Scan# 1109
 Delta R.T. -0.017 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

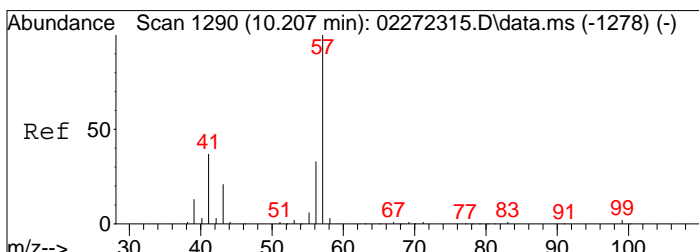
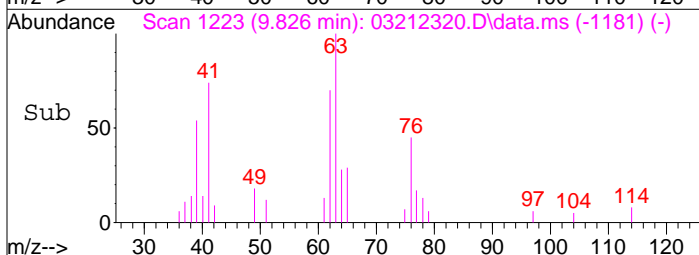
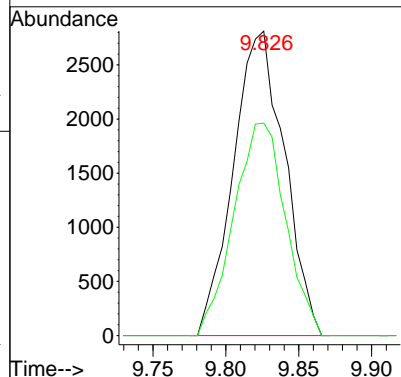
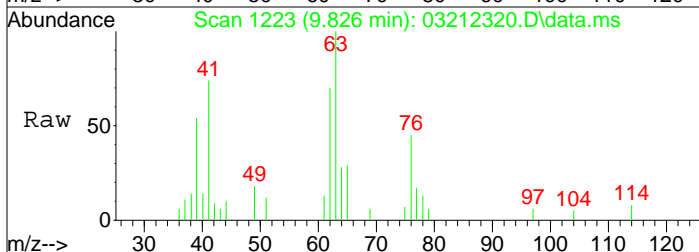
Tgt Ion: 84 Resp: 15374
 Ion Ratio Lower Upper
 84 100
 69 41.6 20.6 60.6
 56 132.9 116.1 156.1





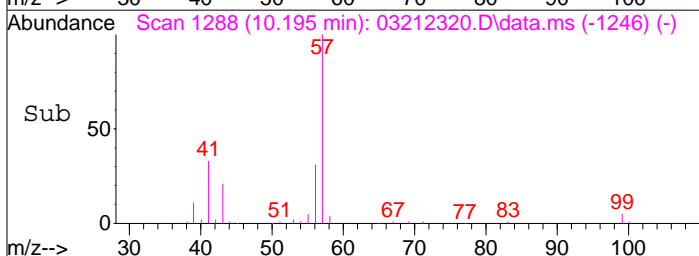
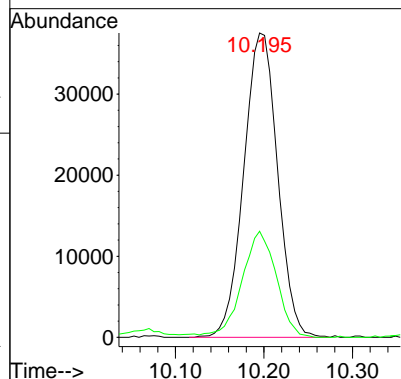
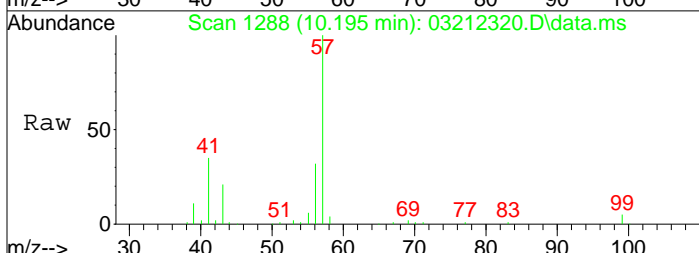
#45
 1,2-Dichloropropane
 Concen: 0.38 ng
 RT: 9.83 min Scan# 1223
 Delta R.T. -0.012 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

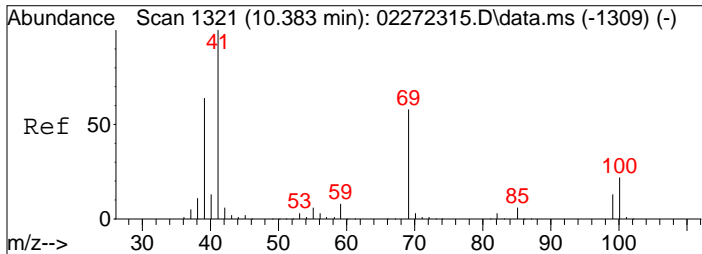
Tgt Ion: 63 Resp: 6856
 Ion Ratio Lower Upper
 63 100
 62 70.6 52.1 92.1



#49
 2,2,4-Trimethylpentane (Isooctane)
 Concen: 1.28 ng
 RT: 10.20 min Scan# 1288
 Delta R.T. -0.012 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

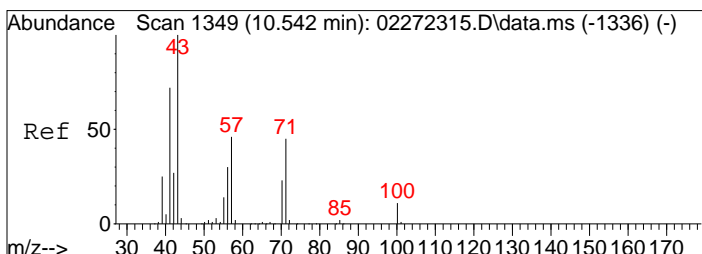
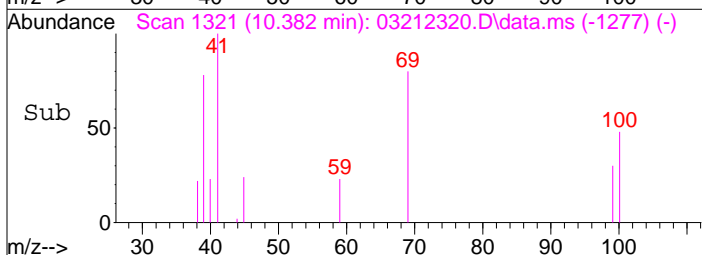
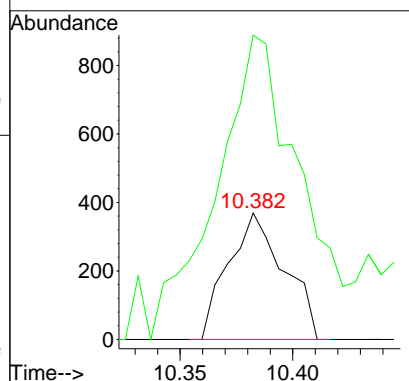
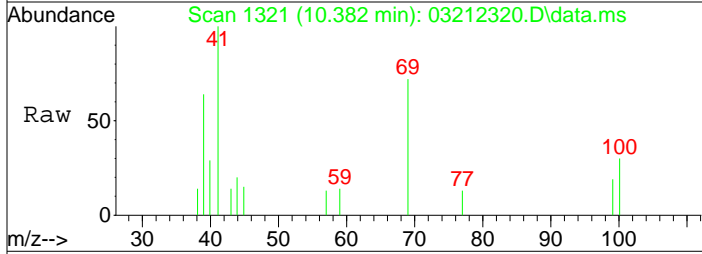
Tgt Ion: 57 Resp: 99709
 Ion Ratio Lower Upper
 57 100
 41 35.4 17.1 57.1





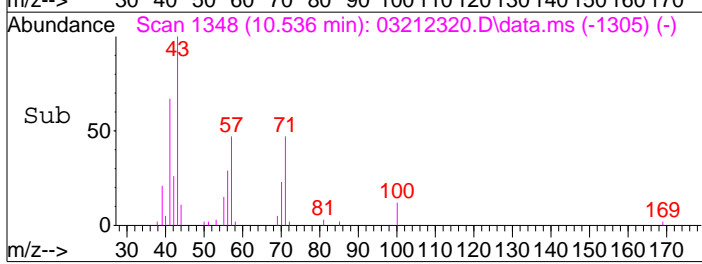
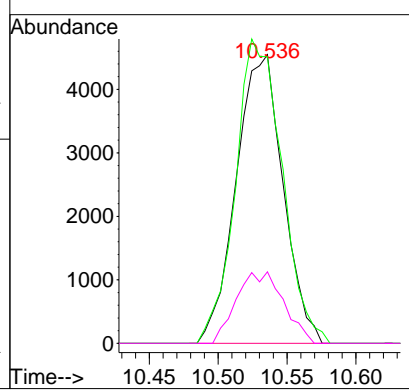
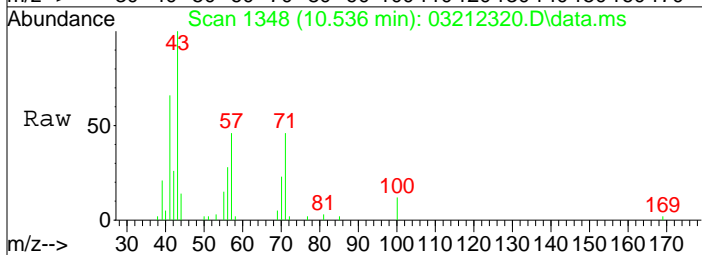
#50
 Methyl Methacrylate
 Concen: 0.11 ng
 RT: 10.38 min Scan# 1321
 Delta R.T. -0.000 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

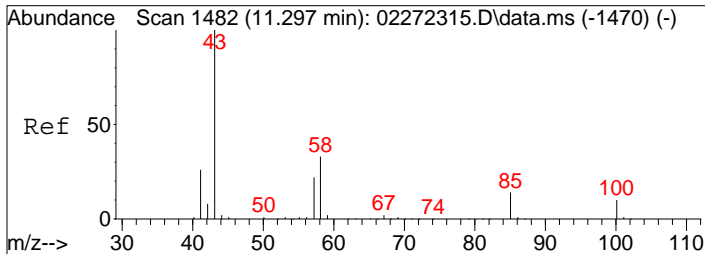
Tgt Ion	Resp	Lower	Upper
100	638		
69	373.0	241.7	281.7#



#51
 n-Heptane
 Concen: 0.68 ng
 RT: 10.54 min Scan# 1348
 Delta R.T. -0.006 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

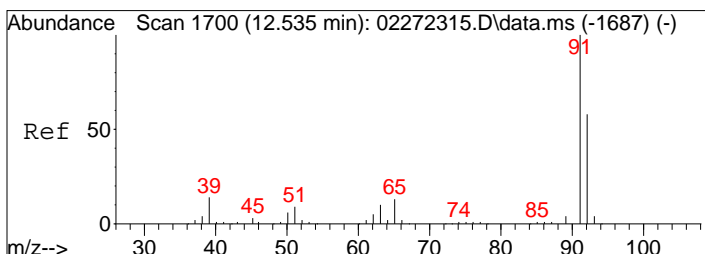
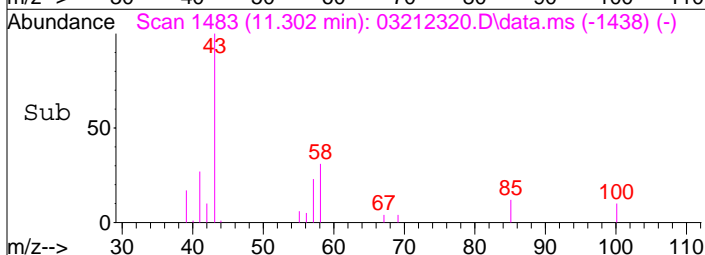
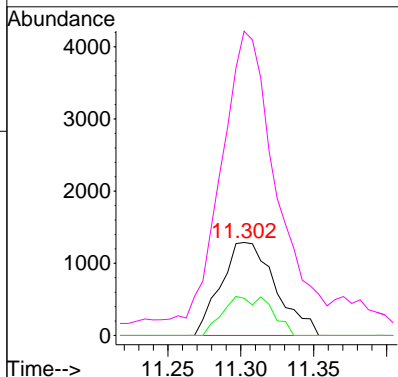
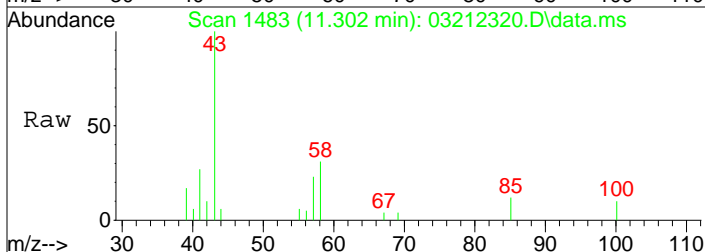
Tgt Ion	Resp	Lower	Upper
71	10769		
57	104.6	84.6	124.6
100	24.9	5.8	45.8





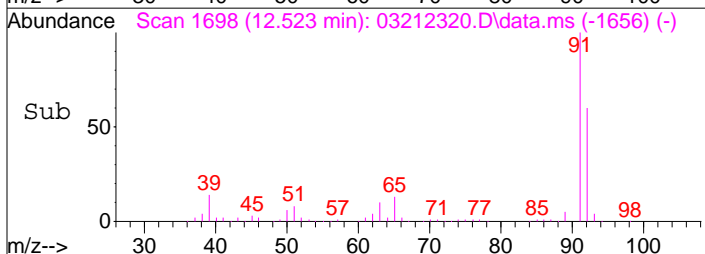
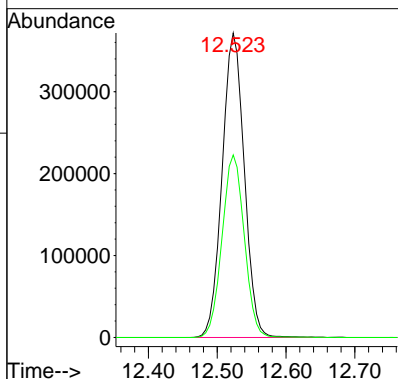
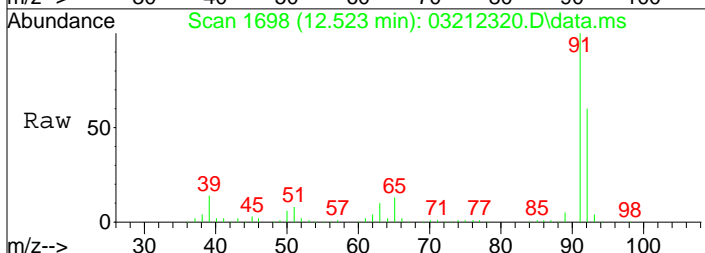
#53
 4-Methyl-2-pentanone
 Concen: 0.22 ng
 RT: 11.30 min Scan# 1483
 Delta R.T. 0.005 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

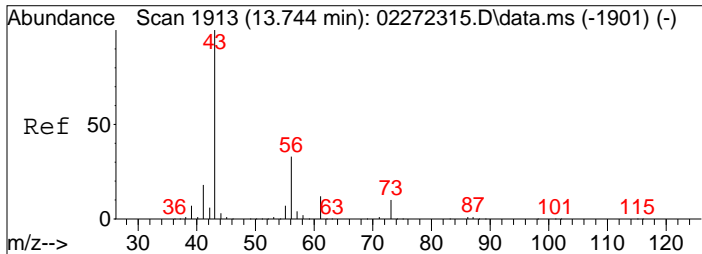
Tgt Ion:	Resp:	Lower	Upper
58	100		
85	37.2	35.7	53.5
43	386.6	242.9	364.3#



#58
 Toluene
 Concen: 12.19 ng
 RT: 12.52 min Scan# 1698
 Delta R.T. -0.012 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

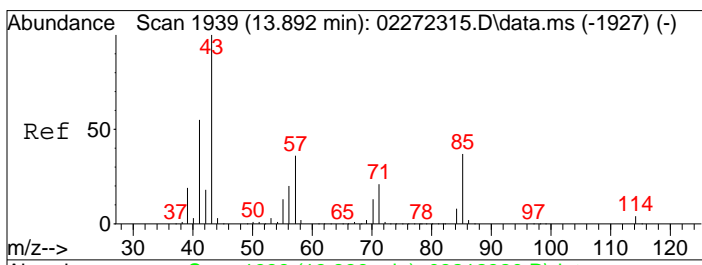
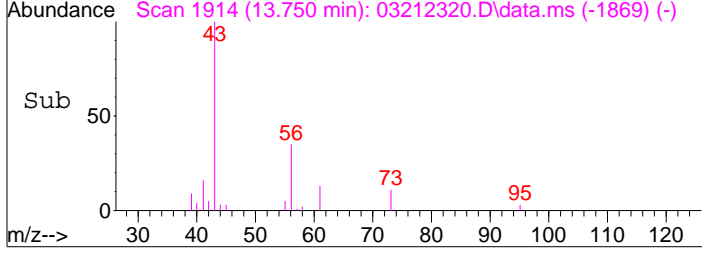
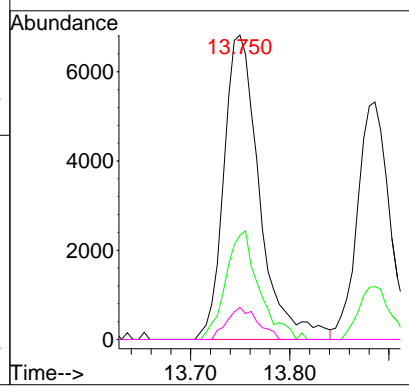
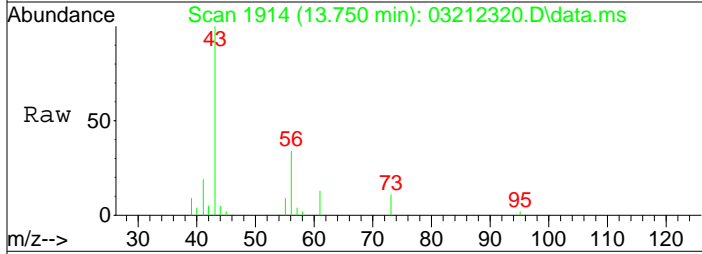
Tgt Ion:	Resp:	Lower	Upper
91	100		
92	60.1	37.6	77.6





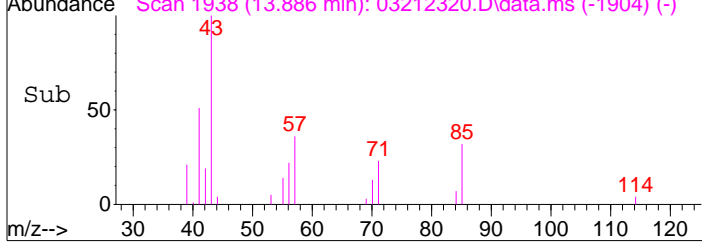
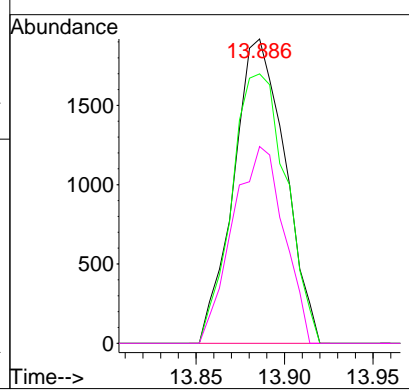
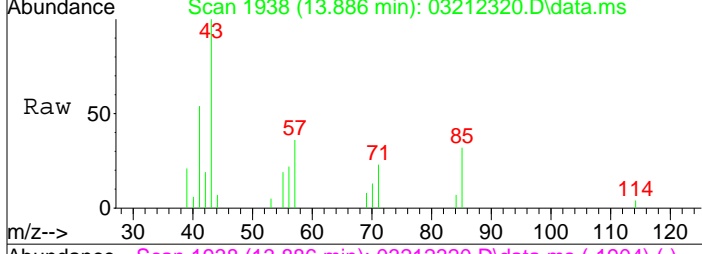
#62
 n-Butyl Acetate
 Concen: 0.36 ng
 RT: 13.75 min Scan# 1914
 Delta R.T. 0.005 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

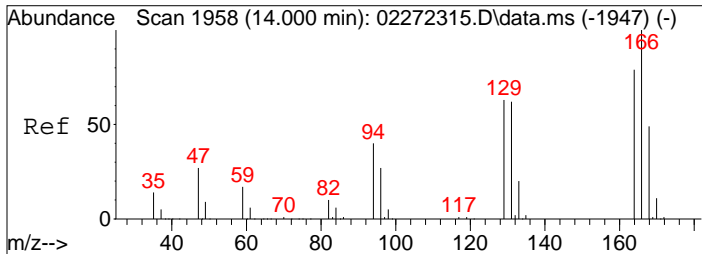
Tgt Ion:	Resp:	Lower	Upper
43	17102		
56	33.2	13.1	53.1
73	9.1	0.0	29.9



#63
 n-Octane
 Concen: 0.26 ng
 RT: 13.89 min Scan# 1938
 Delta R.T. -0.006 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

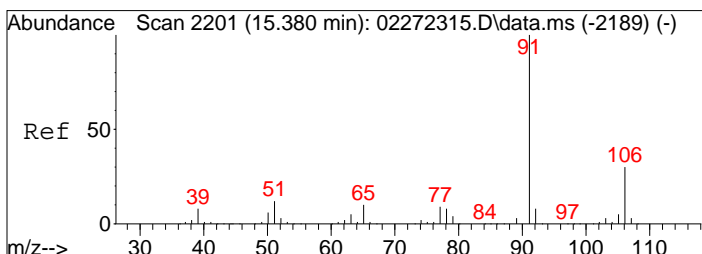
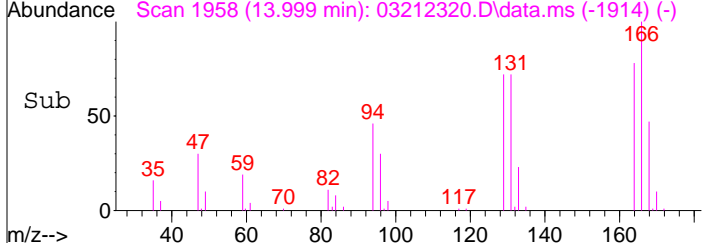
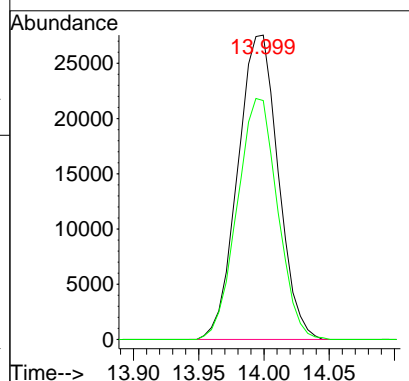
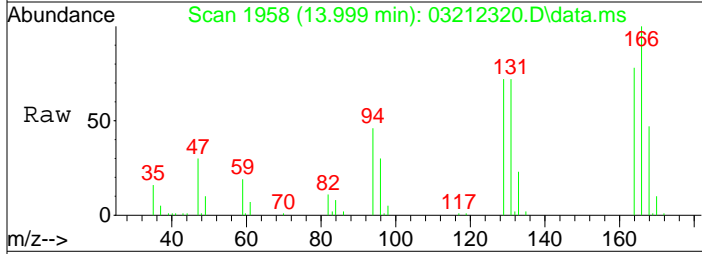
Tgt Ion:	Resp:	Lower	Upper
57	3878		
85	93.5	82.4	123.6
71	64.5	47.8	71.6





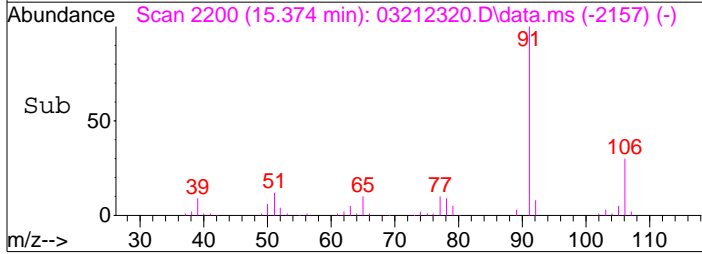
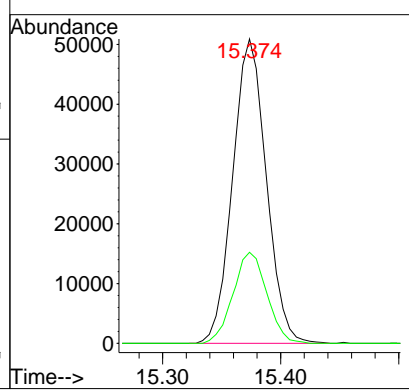
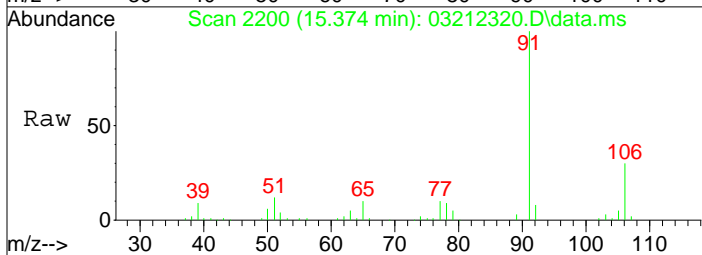
#64
 Tetrachloroethene
 Concen: 2.53 ng
 RT: 14.00 min Scan# 1958
 Delta R.T. -0.000 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

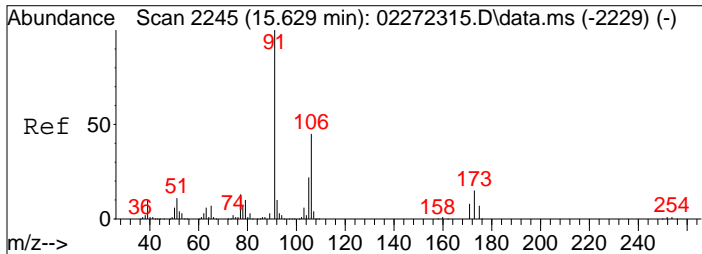
Tgt Ion	Resp	Lower	Upper
166	59515		
166	100		
164	78.9	58.6	98.6



#66
 Ethylbenzene
 Concen: 1.29 ng
 RT: 15.37 min Scan# 2200
 Delta R.T. -0.006 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

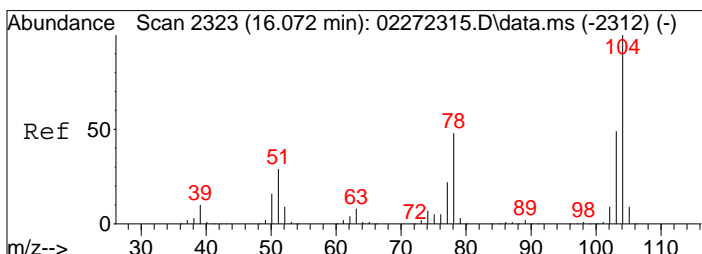
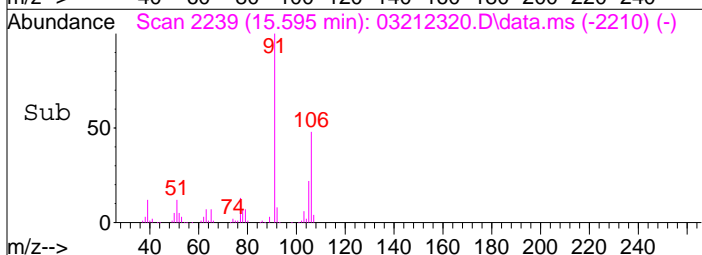
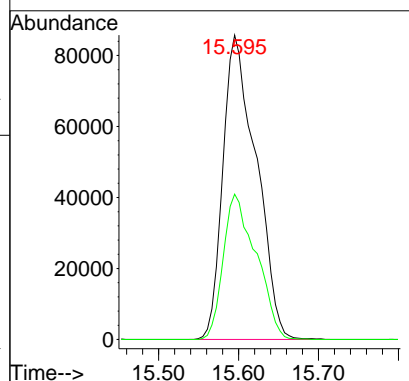
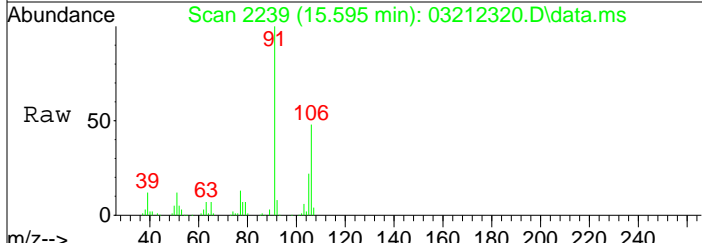
Tgt Ion	Resp	Lower	Upper
91	100685		
91	100		
106	30.0	10.3	50.3





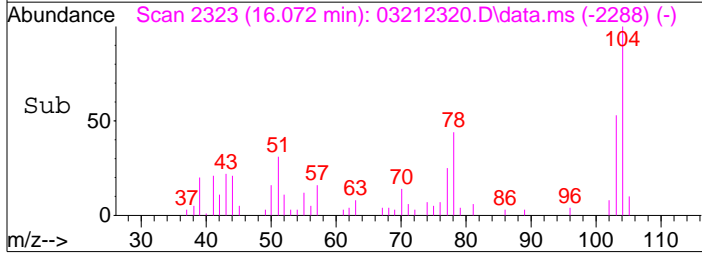
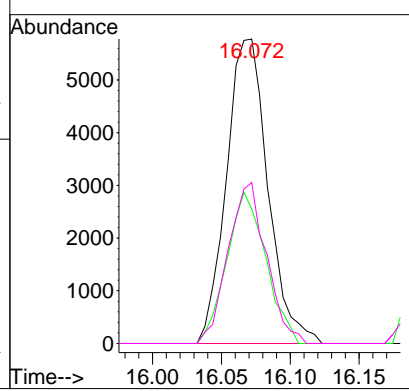
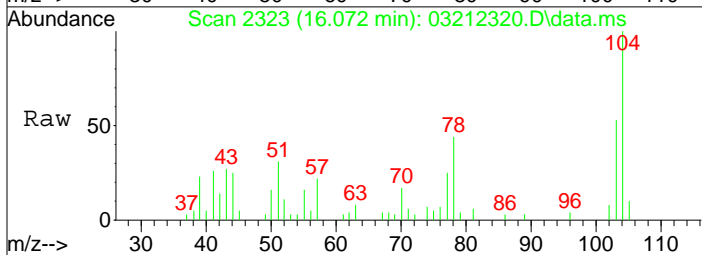
#67
 m- & p-Xylenes
 Concen: 3.86 ng
 RT: 15.60 min Scan# 2239
 Delta R.T. -0.034 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

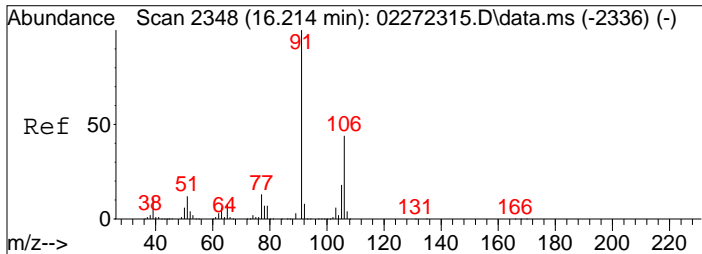
Tgt Ion:	Resp:	Lower	Upper
91	247670	100	100
106	47.2	25.0	65.0



#69
 Styrene
 Concen: 0.30 ng
 RT: 16.07 min Scan# 2323
 Delta R.T. -0.000 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

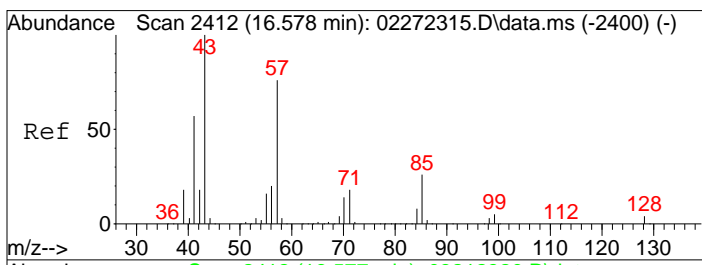
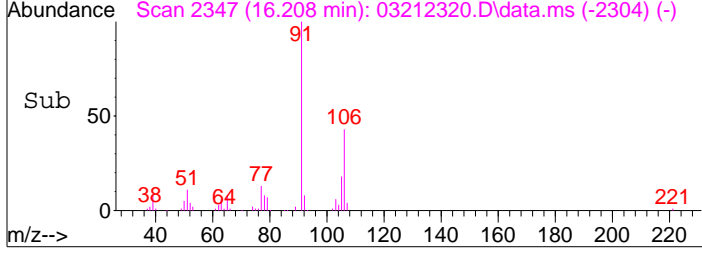
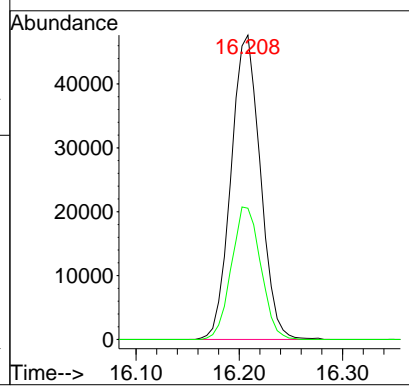
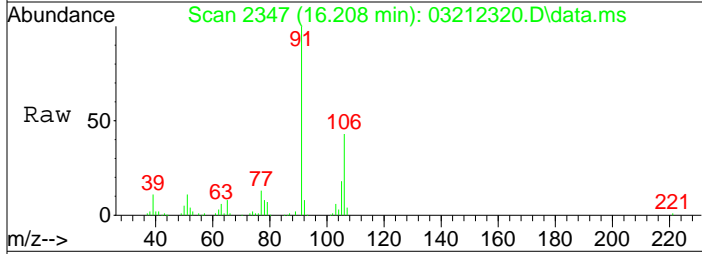
Tgt Ion:	Resp:	Lower	Upper
104	12101	100	100
78	46.8	29.2	69.2
103	48.8	29.2	69.2





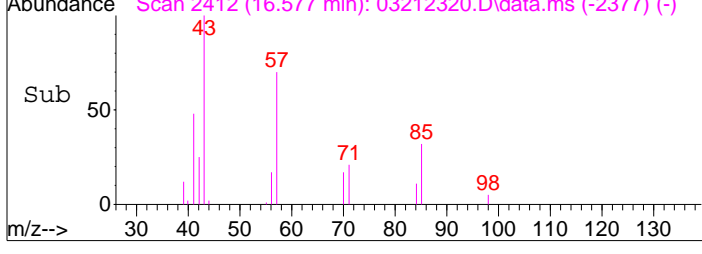
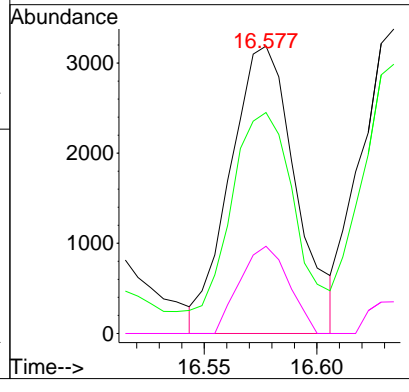
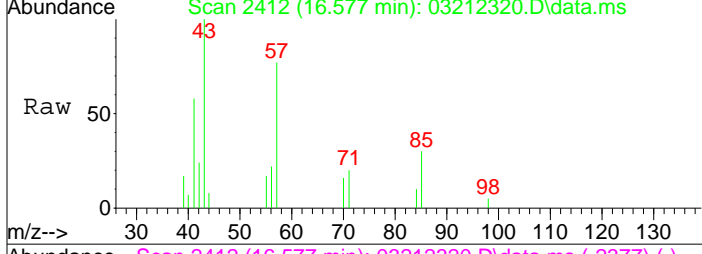
#70
 o-Xylene
 Concen: 1.49 ng
 RT: 16.21 min Scan# 2347
 Delta R.T. -0.006 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

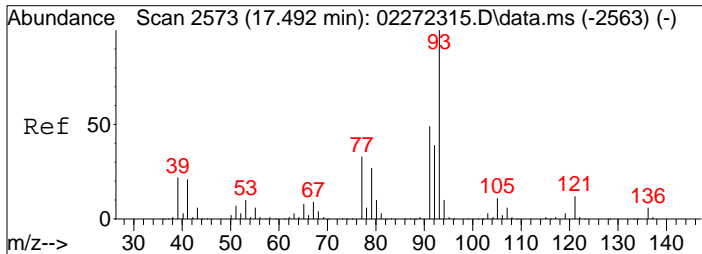
Tgt Ion:	91	Resp:	93943
Ion Ratio	Lower	Upper	
91	100		
106	43.7	24.0	64.0



#71
 n-Nonane
 Concen: 0.16 ng
 RT: 16.58 min Scan# 2412
 Delta R.T. -0.000 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

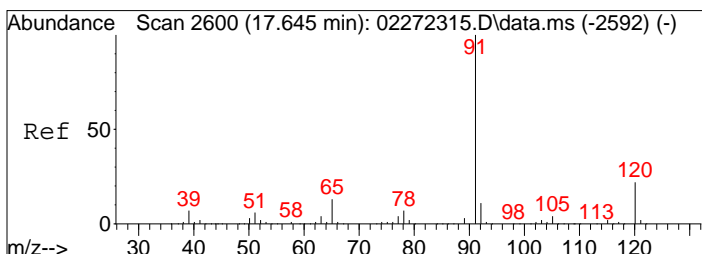
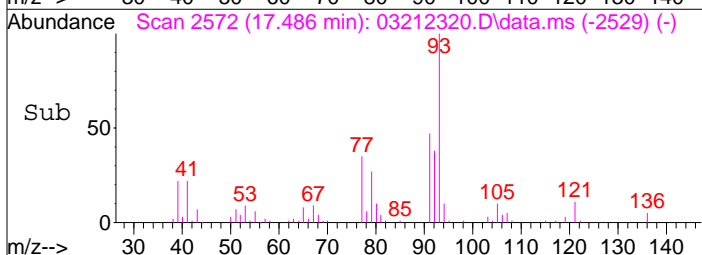
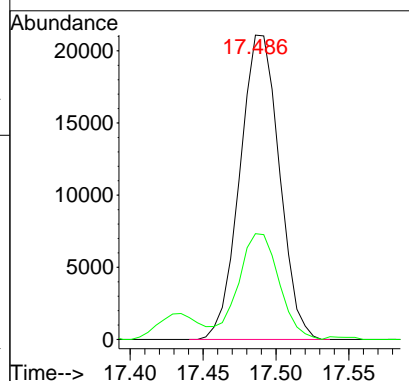
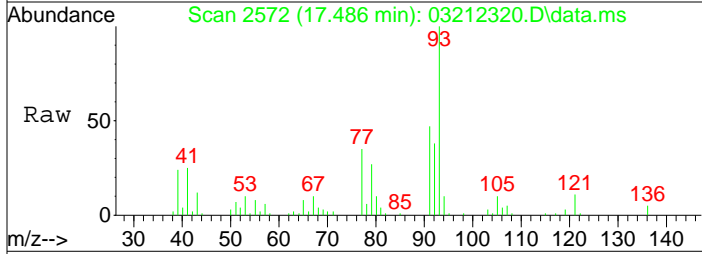
Tgt Ion:	43	Resp:	6442
Ion Ratio	Lower	Upper	
43	100		
57	67.9	56.2	96.2
85	22.7	6.1	46.1





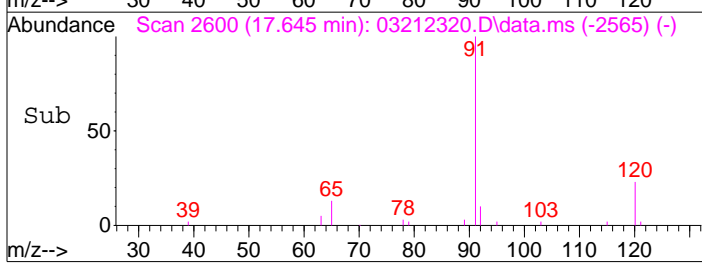
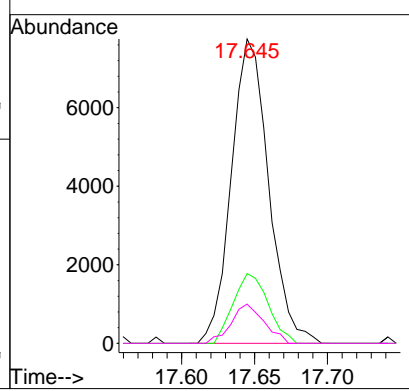
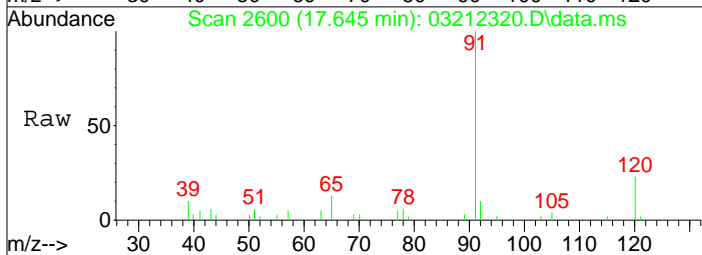
#75
 alpha-Pinene
 Concen: 1.21 ng
 RT: 17.49 min Scan# 2572
 Delta R.T. -0.006 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

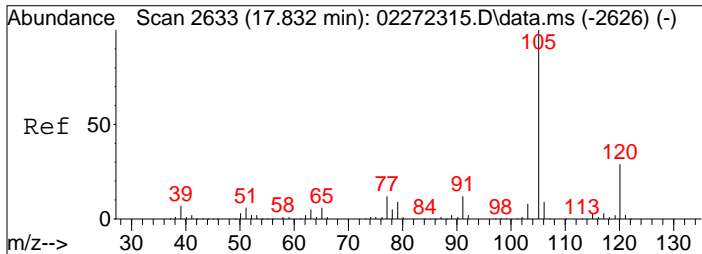
Tgt Ion	Resp	Lower	Upper
93	39763		
77	36.2	14.2	54.2



#76
 n-Propylbenzene
 Concen: 0.15 ng
 RT: 17.64 min Scan# 2600
 Delta R.T. -0.000 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

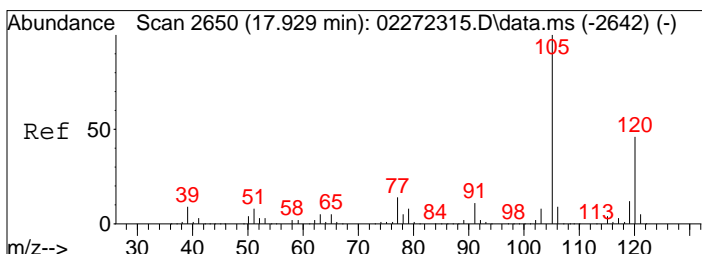
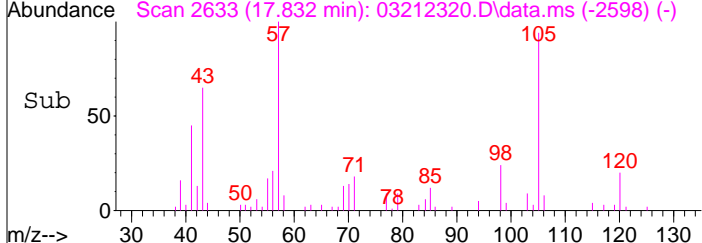
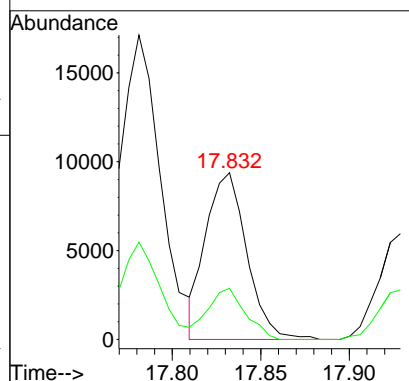
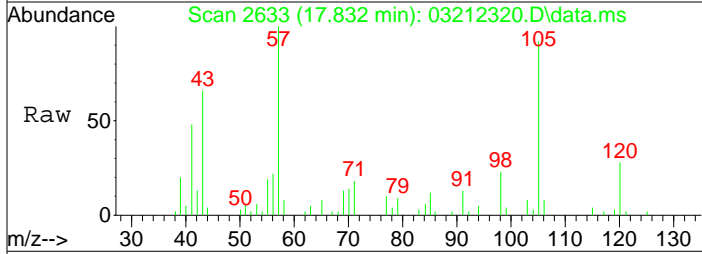
Tgt Ion	Resp	Lower	Upper
91	13776		
120	21.5	2.0	42.0
65	11.4	0.0	32.3





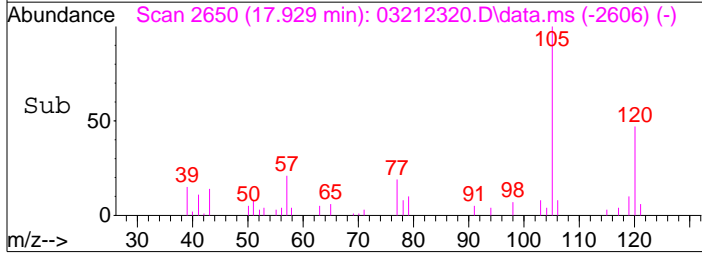
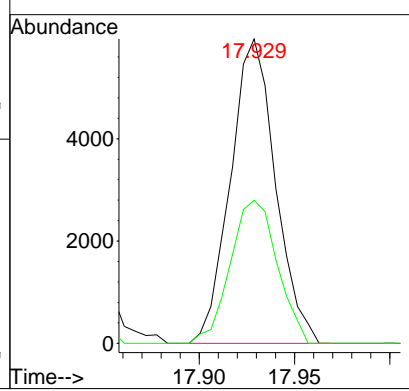
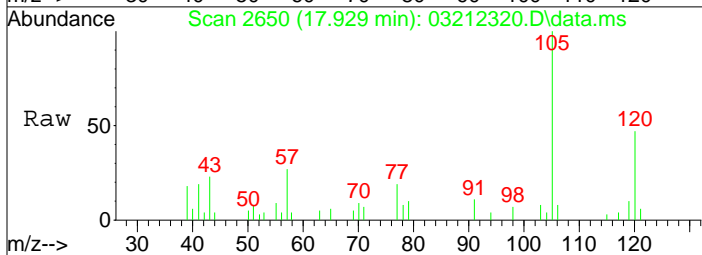
#78
 4-Ethyltoluene
 Concen: 0.21 ng
 RT: 17.83 min Scan# 2633
 Delta R.T. -0.000 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

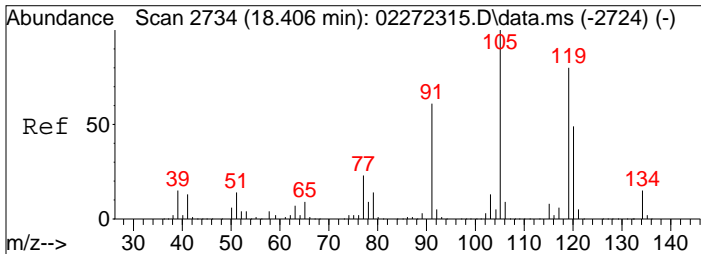
Tgt Ion	Resp	Lower	Upper
105	15107	100	100
120	28.3	8.5	48.5



#79
 1,3,5-Trimethylbenzene
 Concen: 0.15 ng
 RT: 17.93 min Scan# 2650
 Delta R.T. -0.000 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

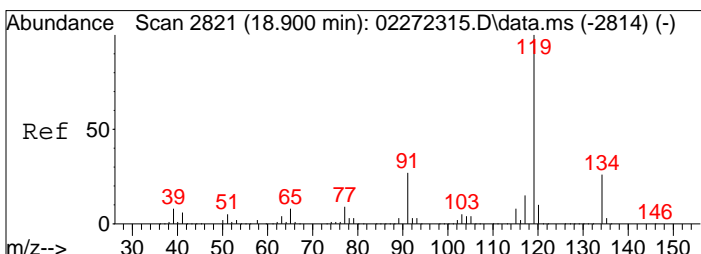
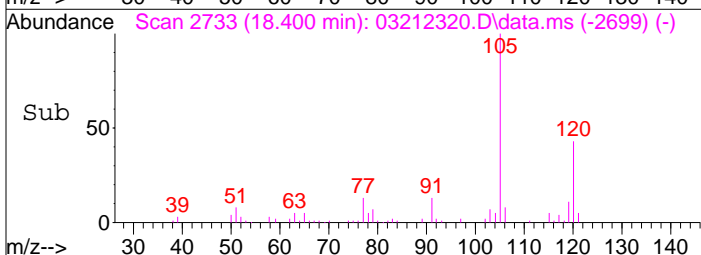
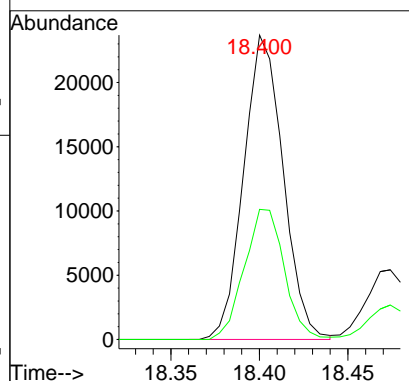
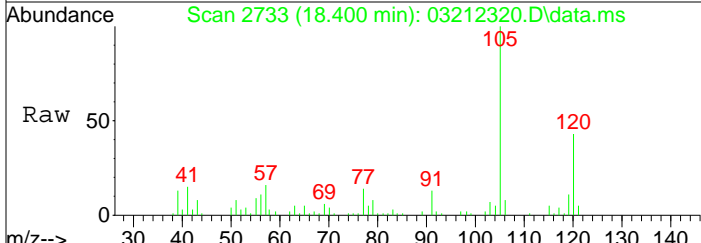
Tgt Ion	Resp	Lower	Upper
105 <td>9784 <td>100</td> <td>100</td> </td>	9784 <td>100</td> <td>100</td>	100	100
120 <td>49.0</td> <td>25.5</td> <td>65.5</td>	49.0	25.5	65.5





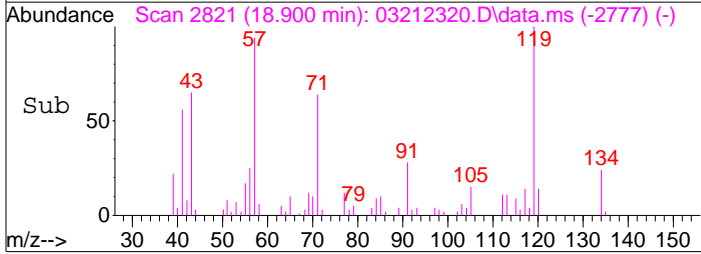
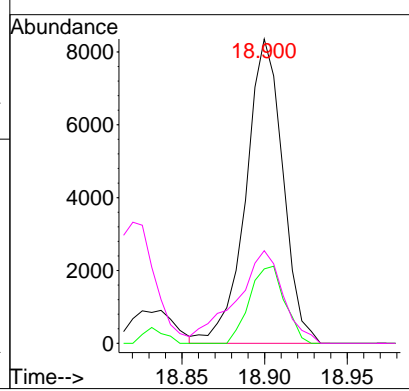
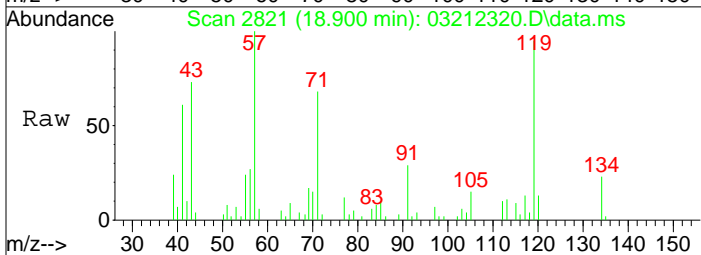
#82
 1,2,4-Trimethylbenzene
 Concen: 0.55 ng
 RT: 18.40 min Scan# 2733
 Delta R.T. -0.006 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

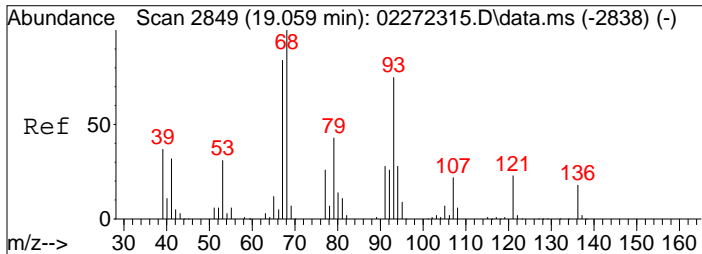
Tgt Ion	Resp	Lower	Upper
105	100		
120	43.4	30.5	70.5



#88
 4-Isopropyltoluene (p-Cymene)
 Concen: 0.17 ng
 RT: 18.90 min Scan# 2821
 Delta R.T. -0.000 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

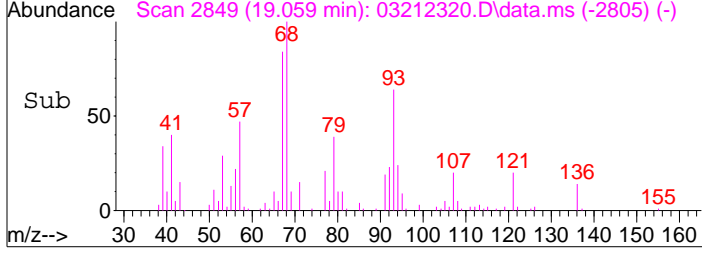
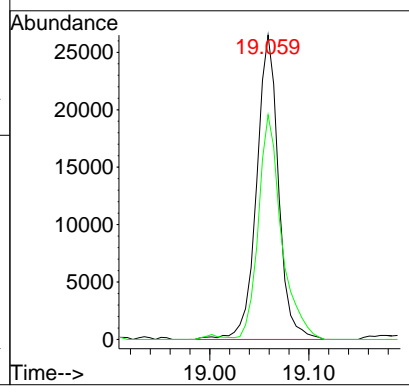
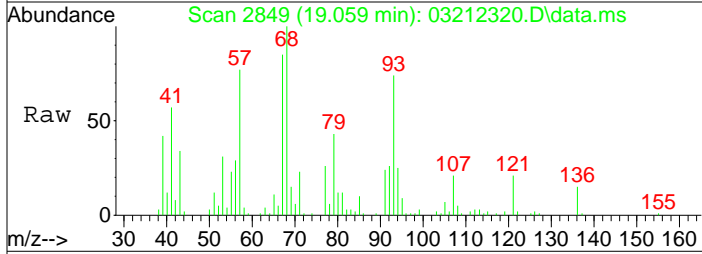
Tgt Ion	Resp	Lower	Upper
119	100		
134	24.0	5.7	45.7
91	38.7	6.8	46.8





#91
 d-Limonene
 Concen: 1.81 ng
 RT: 19.06 min Scan# 2849
 Delta R.T. -0.000 min
 Lab File: 03212320.D
 Acq: 21 Mar 2023 16:47

Tgt Ion	Resp	Lower	Upper
68	100		
93	77.5	55.7	95.7



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: New York State DEC
Client Sample ID: Building-4-IA1-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-010

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01764

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.28 Final Pressure (psig): 3.74

Canister Dilution Factor: 1.23

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	1.0	0.65	0.60	0.38	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	0.65	0.44	0.13	
74-87-3	Chloromethane	0.52	0.26	0.25	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.64	ND	0.092	
75-01-4	Vinyl Chloride	ND	0.14	ND	0.053	
106-99-0	1,3-Butadiene	ND	0.26	ND	0.12	
74-83-9	Bromomethane	ND	0.26	ND	0.067	
75-00-3	Chloroethane	ND	0.26	ND	0.098	
64-17-5	Ethanol	8.1	6.2	4.3	3.3	
75-05-8	Acetonitrile	ND	1.2	ND	0.73	
107-02-8	Acrolein	ND	1.2	ND	0.54	
67-64-1	Acetone	ND	6.5	ND	2.7	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	0.64	0.18	0.11	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.6	1.3	0.64	0.51	
107-13-1	Acrylonitrile	ND	1.2	ND	0.57	
75-35-4	1,1-Dichloroethene	ND	0.14	ND	0.034	
75-09-2	Methylene Chloride	ND	0.65	ND	0.19	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.65	ND	0.21	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.66	ND	0.087	
75-15-0	Carbon Disulfide	ND	1.3	ND	0.42	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	ND	0.034	
75-34-3	1,1-Dichloroethane	ND	0.14	ND	0.033	
1634-04-4	Methyl tert-Butyl Ether	ND	0.66	ND	0.18	
108-05-4	Vinyl Acetate	ND	6.2	ND	1.7	
78-93-3	2-Butanone (MEK)	ND	1.3	ND	0.43	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3

Client: New York State DEC
Client Sample ID: Building-4-IA1-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-010

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01764

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.28 Final Pressure (psig): 3.74

Canister Dilution Factor: 1.23

CAS #	Compound	Result $\mu\text{g}/\text{m}^3$	MRL $\mu\text{g}/\text{m}^3$	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.14	ND	0.034	
141-78-6	Ethyl Acetate	4.8	2.6	1.3	0.72	
110-54-3	n-Hexane	ND	0.65	ND	0.19	
67-66-3	Chloroform	ND	0.14	ND	0.028	
109-99-9	Tetrahydrofuran (THF)	2.2	0.62	0.73	0.21	
107-06-2	1,2-Dichloroethane	ND	0.14	ND	0.033	
71-55-6	1,1,1-Trichloroethane	ND	0.14	ND	0.025	
71-43-2	Benzene	0.51	0.14	0.16	0.042	
56-23-5	Carbon Tetrachloride	0.34	0.14	0.053	0.022	
110-82-7	Cyclohexane	ND	1.3	ND	0.38	
78-87-5	1,2-Dichloropropane	ND	0.14	ND	0.029	
75-27-4	Bromodichloromethane	ND	0.14	ND	0.020	
79-01-6	Trichloroethene	ND	0.14	ND	0.025	
123-91-1	1,4-Dioxane	ND	0.65	ND	0.18	
80-62-6	Methyl Methacrylate	ND	1.4	ND	0.33	
142-82-5	n-Heptane	ND	0.65	ND	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.66	ND	0.15	
108-10-1	4-Methyl-2-pentanone	ND	1.4	ND	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	0.63	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.14	ND	0.025	
108-88-3	Toluene	4.6	0.65	1.2	0.17	
591-78-6	2-Hexanone	ND	1.4	ND	0.33	
124-48-1	Dibromochloromethane	ND	0.14	ND	0.016	
106-93-4	1,2-Dibromoethane	ND	0.14	ND	0.018	
123-86-4	n-Butyl Acetate	ND	1.2	ND	0.26	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3 of 3

Client: New York State DEC
Client Sample ID: Building-4-IA1-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-010

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01764

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.28 Final Pressure (psig): 3.74

Canister Dilution Factor: 1.23

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.66	ND	0.14	
127-18-4	Tetrachloroethene	ND	0.14	ND	0.020	
108-90-7	Chlorobenzene	ND	0.65	ND	0.14	
100-41-4	Ethylbenzene	ND	0.65	ND	0.15	
179601-23-1	m,p-Xylenes	1.8	1.4	0.42	0.31	
75-25-2	Bromoform	ND	0.66	ND	0.064	
100-42-5	Styrene	ND	0.65	ND	0.15	
95-47-6	o-Xylene	0.67	0.65	0.16	0.15	
111-84-2	n-Nonane	ND	0.65	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	ND	0.020	
98-82-8	Cumene	ND	0.66	ND	0.14	
80-56-8	alpha-Pinene	ND	1.4	ND	0.24	
103-65-1	n-Propylbenzene	ND	0.66	ND	0.14	
622-96-8	4-Ethyltoluene	ND	0.68	ND	0.14	
108-67-8	1,3,5-Trimethylbenzene	ND	0.65	ND	0.13	
95-63-6	1,2,4-Trimethylbenzene	ND	0.65	ND	0.13	
100-44-7	Benzyl Chloride	ND	2.6	ND	0.50	
541-73-1	1,3-Dichlorobenzene	ND	0.65	ND	0.11	
106-46-7	1,4-Dichlorobenzene	ND	0.65	ND	0.11	
95-50-1	1,2-Dichlorobenzene	ND	0.66	ND	0.11	
5989-27-5	d-Limonene	ND	1.4	ND	0.24	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.4	ND	0.14	
120-82-1	1,2,4-Trichlorobenzene	ND	1.4	ND	0.18	
91-20-3	Naphthalene	ND	0.68	ND	0.13	
87-68-3	Hexachlorobutadiene	ND	0.65	ND	0.061	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Data File : I:\MS09\DATA\2023 03\21\03212321.D
 Acq On : 21 Mar 2023 17:19
 Sample : P2301184-010 (1000ml)
 Misc : S35-02212305

Vial: 13
 Operator: WA/SR
 Inst : MS09

USA 3/22/23

Quant Time: Mar 22 04:54:53 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	7.20	130	163410	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.26	114	734287	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.81	54	166514	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.97	65	349305	12.626	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery	=	101.04%	
57) Toluene-d8 (SS2)	12.39	98	875046	13.830	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	110.64%	
73) Bromofluorobenzene (SS3)	16.79	174	269345	10.440	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	83.52%	

Target Compounds

						Qvalue
2) Propene	3.28	42	18397	0.846	ng	# 68
3) Dichlorodifluoromethan...	3.35	85	66227	1.755	ng	99
4) Chloromethane	3.50	50	9937	0.419	ng	96
5) 1,2-Dichloro-1,1,2,2-t...	3.60	135	1383	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	4.02	94	201	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	4.27	45	102744	6.626	ng	98
11) Acetonitrile	4.43	41	1769	N.D.		
12) Acrolein	4.52	56	1987	0.192	ng	97
13) Acetone	4.61	58	55265	4.703	ng	98
14) Trichlorofluoromethane	4.74	101	30894	0.821	ng	99
15) 2-Propanol (Isopropanol)	4.83	45	58409	1.273	ng	100
16) Acrylonitrile	4.95	53	52	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	5.32	59	3446	N.D.		
19) Methylene Chloride	5.33	84	3728	0.240	ng	98
20) 3-Chloro-1-propene (Al...	5.44	41	163	N.D.		
21) Trichlorotrifluoroethane	5.57	151	5417	0.318	ng	82
22) Carbon Disulfide	5.60	76	4304	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)	6.65	72	7571	0.808	ng	# 81
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	7.27	87	226	N.D.		
30) Ethyl Acetate	7.25	61	28170	3.912	ng	98
31) n-Hexane	7.28	57	6814	0.228	ng	99
32) Chloroform	7.32	83	1798	N.D.		
34) Tetrahydrofuran (THF)	7.73	72	16498	1.759	ng	98
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.08	62	1241	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	8.80	56	8044	No Calib	#	
41) Benzene	8.87	78	26097	0.416	ng	99
42) Carbon Tetrachloride	9.03	117	7544	0.273	ng	98
43) Cyclohexane	9.18	84	2341	0.100	ng	93
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	9.82	63	115	N.D.		
46) Bromodichloromethane	10.06	83	114	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...	10.19	57	20614	0.269	ng	96
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS09\DATA\2023 03\21\03212321.D
 Acq On : 21 Mar 2023 17:19
 Sample : P2301184-010 (1000ml)
 Misc : S35-02212305

Vial: 13
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 22 04:54:53 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

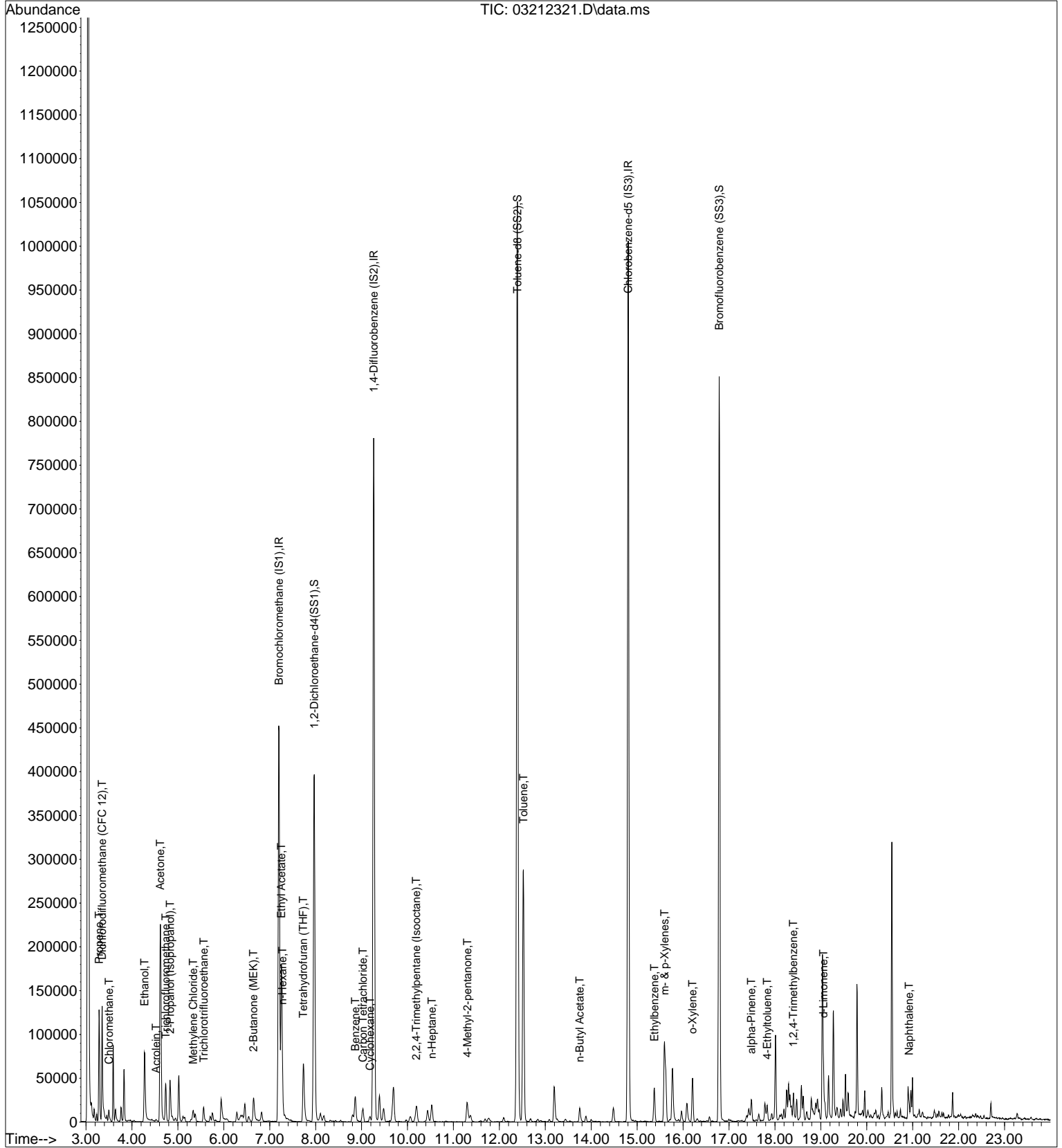
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.53	71	5062	0.324	ng	93
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.30	58	8188	0.533	ng	92
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.52	91	252300	3.745	ng	98
59) 2-Hexanone	12.90	43	2639	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.75	43	17676	0.375	ng	99
63) n-Octane	13.89	57	1292	N.D.		
64) Tetrachloroethene	13.99	166	714	N.D.		
65) Chlorobenzene	14.86	112	153	N.D.		
66) Ethylbenzene	15.37	91	32792	0.424	ng	100
67) m- & p-Xylenes	15.60	91	93868	1.480	ng	97
68) Bromoform	15.63	173	114	N.D.		
69) Styrene	16.08	104	3058	N.D.		
70) o-Xylene	16.20	91	34250	0.548	ng	100
71) n-Nonane	16.57	43	3485	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	17.00	105	2164	N.D.		
75) alpha-Pinene	17.49	93	9468	0.292	ng	82
76) n-Propylbenzene	17.65	91	6430	N.D.		
77) 3-Ethyltoluene	17.00	105	2164	No Calib		
78) 4-Ethyltoluene	17.83	105	6877	0.094	ng	97
79) 1,3,5-Trimethylbenzene	17.93	105	4228	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.00	105	2164	No Calib		
82) 1,2,4-Trimethylbenzene	18.40	105	15500	0.233	ng	91
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	18.56	146	351	N.D.		
86) 1,4-Dichlorobenzene	18.63	146	511	N.D.		
87) sec-Butylbenzene	18.71	105	878	N.D.		
88) 4-Isopropyltoluene (p-...	18.90	119	3758	N.D.		
89) 1,2,3-Trimethylbenzene	17.00	105	2164	No Calib		
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	19.06	68	11283	0.507	ng	99
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.09	58	1120	No Calib	#	
94) 1,2,4-Trichlorobenzene	20.81	180	108	N.D.		
95) Naphthalene	20.92	128	8211	0.140	ng	97
96) n-Dodecane	19.04	58	4686	No Calib	#	
97) Hexachlorobutadiene	21.28	225	114	N.D.		
98) Cyclohexanone	15.35	55	476	No Calib	#	
99) tert-Butylbenzene	18.40	119	2016	N.D.		
100) n-Butylbenzene	19.36	91	2731	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\21\03212321.D
Acq On : 21 Mar 2023 17:19
Sample : P2301184-010 (1000ml)
Misc : S35-02212305

Vial: 13
Operator: WA/SR
Inst : MS09

Quant Time: Mar 22 04:54:53 2023
Quant Method : I:\MS09\METHODS\R9022723.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Feb 28 08:30:18 2023
Response via : Initial Calibration
DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2023 03\21\03212321.D
 Acq On : 21 Mar 2023 17:19
 Sample : P2301184-010 (1000ml)
 Misc : S35-02212305

Vial: 13
 Operator: WA/SR
 Inst : MS09

IDA 3/22/23

Quant Time: Mar 22 04:54:53 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	7.20	130	163410	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.26	114	734287	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.81	54	166514	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.97	65	349305	12.626	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	101.04%
57) Toluene-d8 (SS2)	12.39	98	875046	13.830	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	110.64%
73) Bromofluorobenzene (SS3)	16.79	174	269345	10.440	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	83.52%

Target Compounds

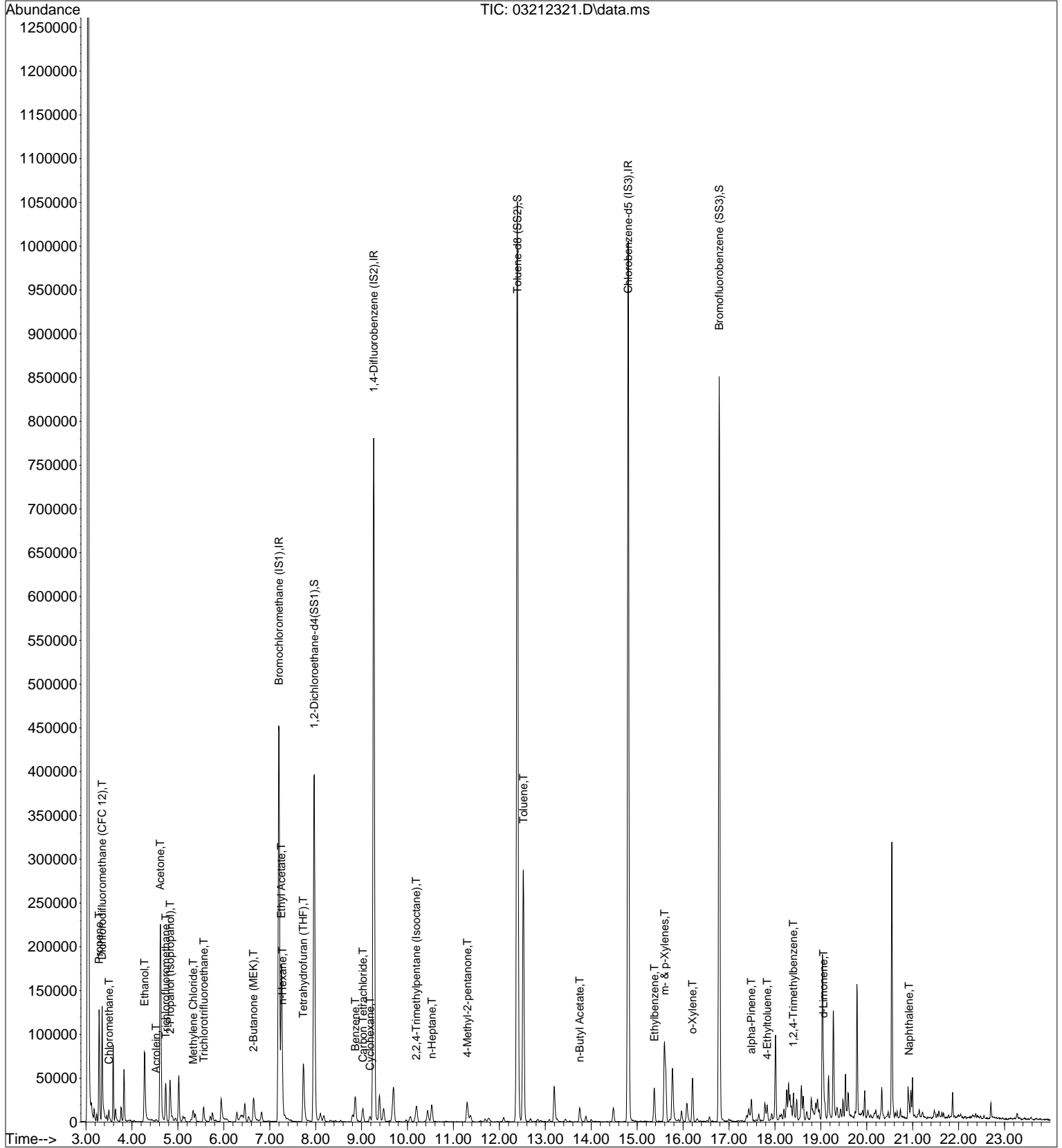
	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.28	42	18397	0.846	ng	# 68
3) Dichlorodifluoromethan...	3.35	85	66227	1.755	ng	99
4) Chloromethane	3.50	50	9937	0.419	ng	96
10) Ethanol	4.27	45	102744	6.626	ng	98
12) Acrolein	4.52	56	1987	0.192	ng	97
13) Acetone	4.61	58	55265	4.703	ng	98
14) Trichlorofluoromethane	4.74	101	30894	0.821	ng	99
15) 2-Propanol (Isopropanol)	4.83	45	58409	1.273	ng	100
19) Methylene Chloride	5.33	84	3728	0.240	ng	98
21) Trichlorotrifluoroethane	5.57	151	5417	0.318	ng	82
27) 2-Butanone (MEK)	6.65	72	7571	0.808	ng	# 81
30) Ethyl Acetate	7.25	61	28170	3.912	ng	98
31) n-Hexane	7.28	57	6814	0.228	ng	99
34) Tetrahydrofuran (THF)	7.73	72	16498	1.759	ng	98
41) Benzene	8.87	78	26097	0.416	ng	99
42) Carbon Tetrachloride	9.03	117	7544	0.273	ng	98
43) Cyclohexane	9.18	84	2341	0.100	ng	93
49) 2,2,4-Trimethylpentane...	10.19	57	20614	0.269	ng	96
51) n-Heptane	10.53	71	5062	0.324	ng	93
53) 4-Methyl-2-pentanone	11.30	58	8188	0.533	ng	92
58) Toluene	12.52	91	252300	3.745	ng	98
62) n-Butyl Acetate	13.75	43	17676	0.375	ng	99
66) Ethylbenzene	15.37	91	32792	0.424	ng	100
67) m- & p-Xylenes	15.60	91	93868	1.480	ng	97
70) o-Xylene	16.20	91	34250	0.548	ng	100
75) alpha-Pinene	17.49	93	9468	0.292	ng	82
78) 4-Ethyltoluene	17.83	105	6877	0.094	ng	97
82) 1,2,4-Trimethylbenzene	18.40	105	15500	0.233	ng	91
91) d-Limonene	19.06	68	11283	0.507	ng	99
95) Naphthalene	20.92	128	8211	0.140	ng	97

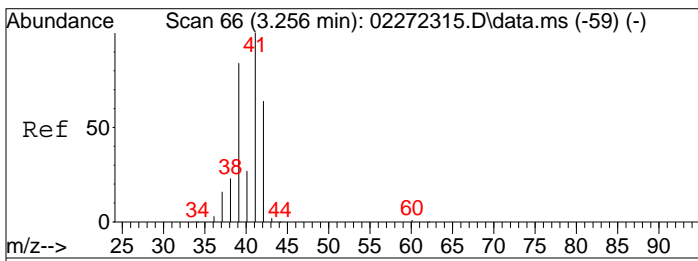
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS09\DATA\2023 03\21\03212321.D
Acq On : 21 Mar 2023 17:19
Sample : P2301184-010 (1000ml)
Misc : S35-02212305

Vial: 13
Operator: WA/SR
Inst : MS09

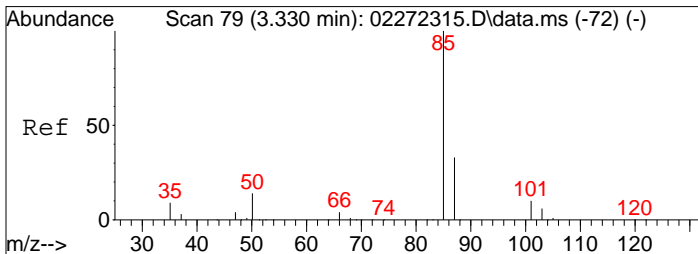
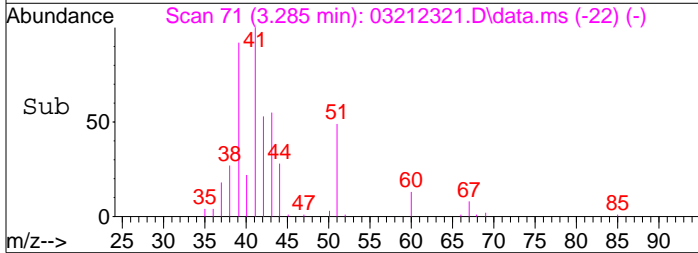
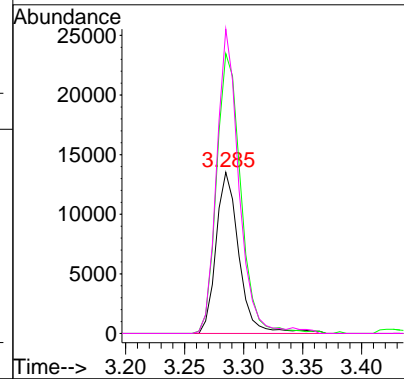
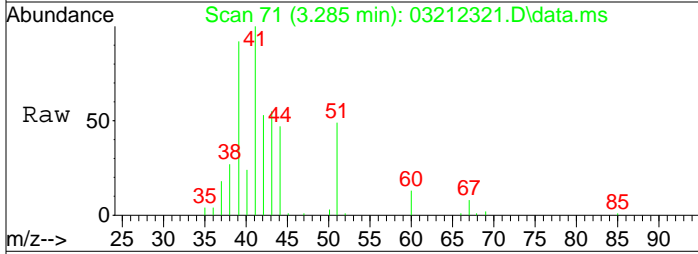
Quant Time: Mar 22 04:54:53 2023
Quant Method : I:\MS09\METHODS\R9022723.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Feb 28 08:30:18 2023
Response via : Initial Calibration
DataAcq Meth:TO15.M





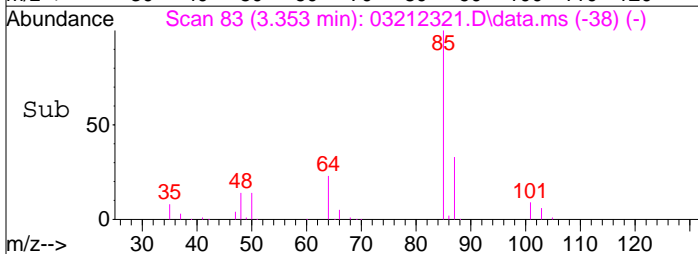
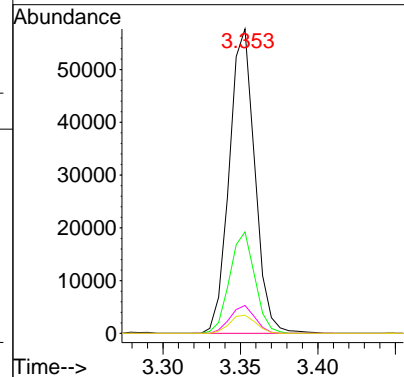
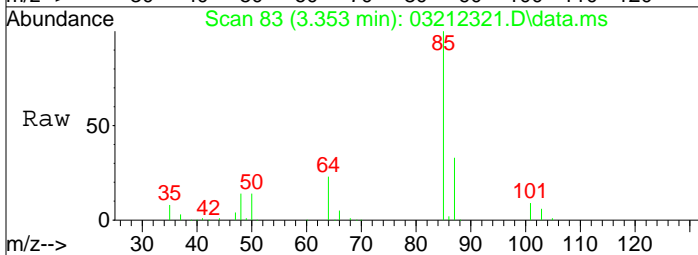
#2
 Propene
 Concen: 0.85 ng
 RT: 3.28 min Scan# 71
 Delta R.T. 0.028 min
 Lab File: 03212321.D
 Acq: 21 Mar 2023 17:19

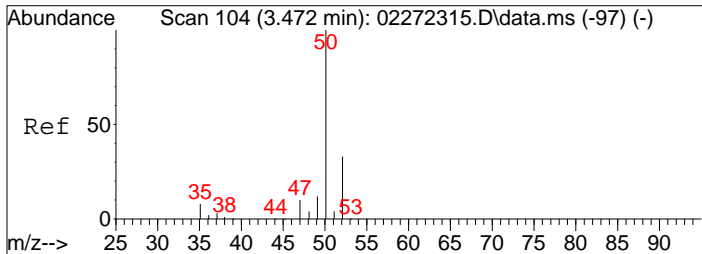
Tgt Ion:	Resp:	Lower	Upper
42	18397		
42	100		
39	182.7	110.0	150.0#
41	183.5	135.8	175.8#



#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.76 ng
 RT: 3.35 min Scan# 83
 Delta R.T. 0.003 min
 Lab File: 03212321.D
 Acq: 21 Mar 2023 17:19

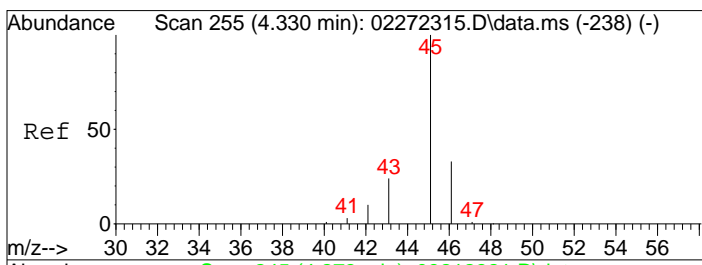
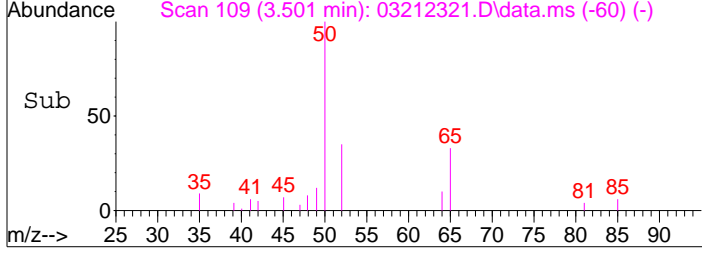
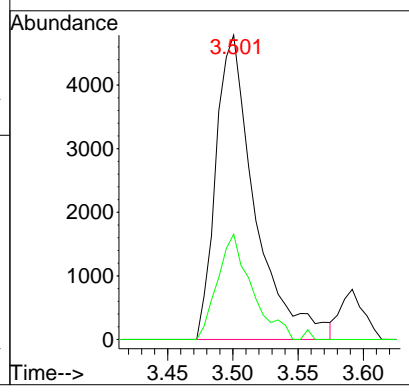
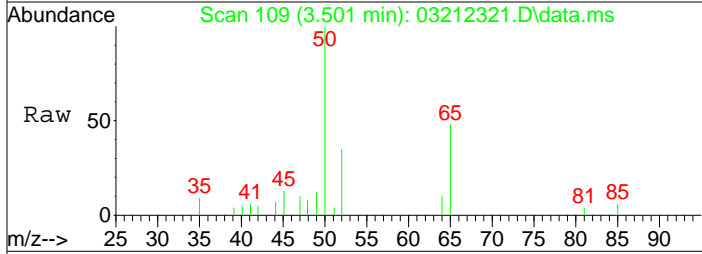
Tgt Ion:	Resp:	Lower	Upper
85	66227		
85	100		
87	32.8	12.3	52.3
101	9.0	0.0	29.7
103	6.2	0.0	26.3





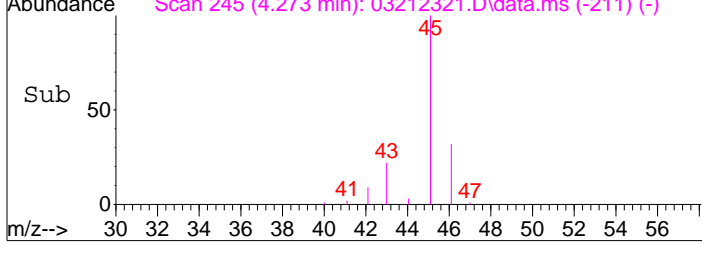
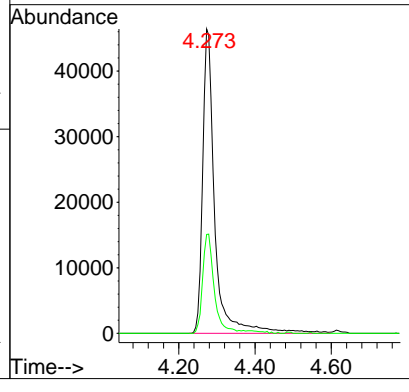
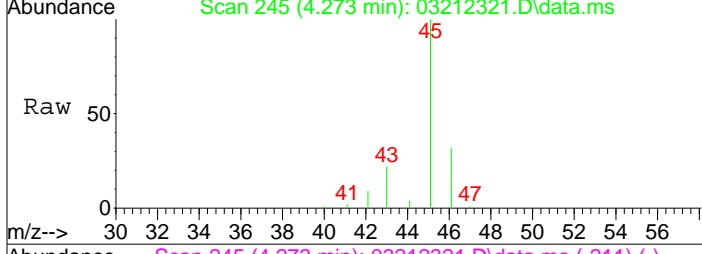
#4
 Chloromethane
 Concen: 0.42 ng
 RT: 3.50 min Scan# 109
 Delta R.T. 0.028 min
 Lab File: 03212321.D
 Acq: 21 Mar 2023 17:19

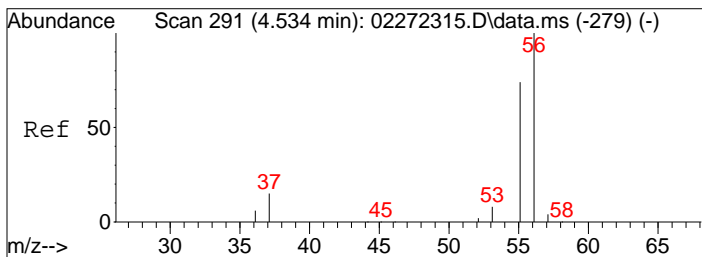
Tgt Ion	Resp	Lower	Upper
50	100		
52	30.3	12.8	52.8



#10
 Ethanol
 Concen: 6.63 ng
 RT: 4.27 min Scan# 245
 Delta R.T. -0.057 min
 Lab File: 03212321.D
 Acq: 21 Mar 2023 17:19

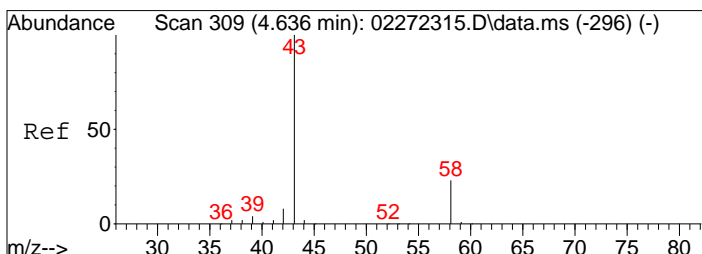
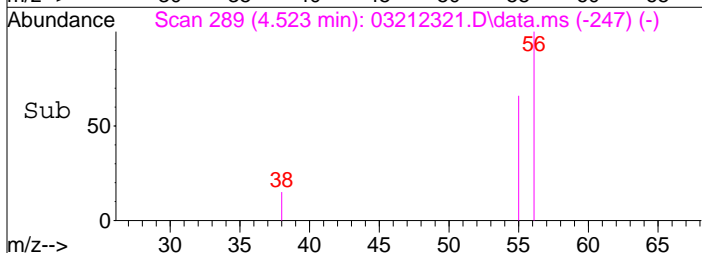
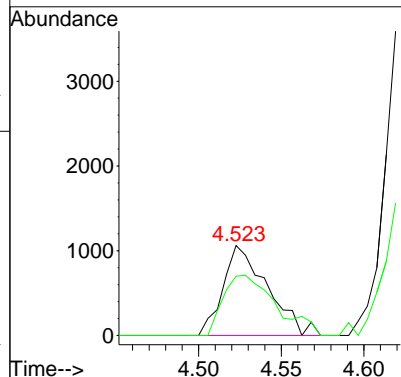
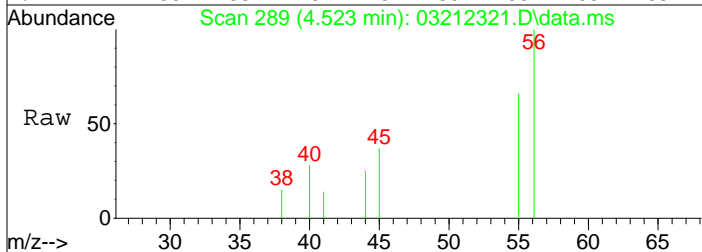
Tgt Ion	Resp	Lower	Upper
45	100		
46	32.4	13.4	53.4





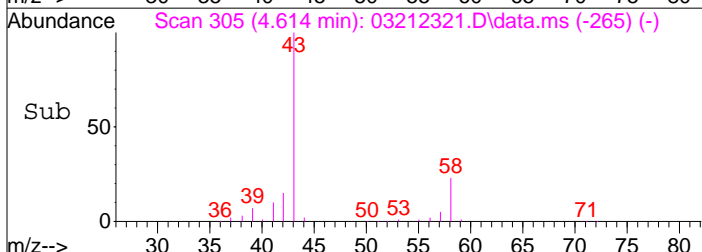
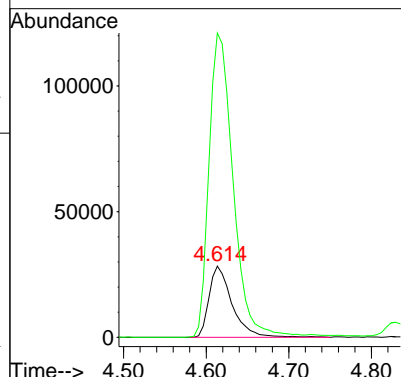
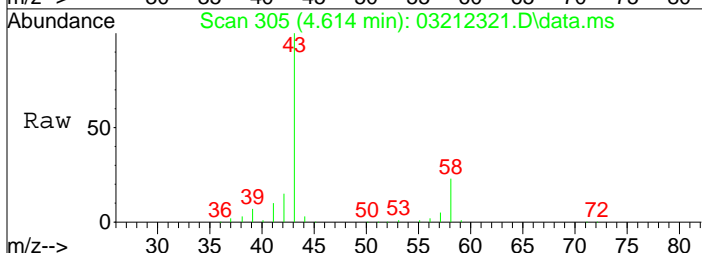
#12
 Acrolein
 Concen: 0.19 ng
 RT: 4.52 min Scan# 289
 Delta R.T. -0.011 min
 Lab File: 03212321.D
 Acq: 21 Mar 2023 17:19

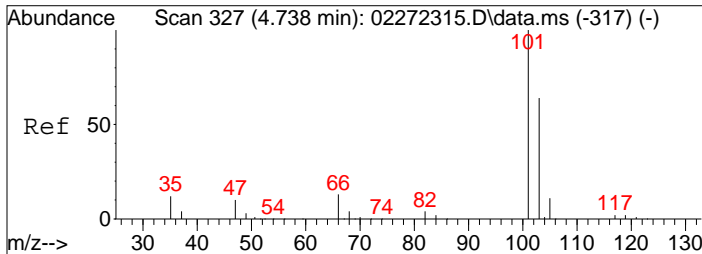
Tgt Ion: 56 Resp: 1987
 Ion Ratio Lower Upper
 56 100
 55 78.8 56.4 96.4



#13
 Acetone
 Concen: 4.70 ng
 RT: 4.61 min Scan# 305
 Delta R.T. -0.023 min
 Lab File: 03212321.D
 Acq: 21 Mar 2023 17:19

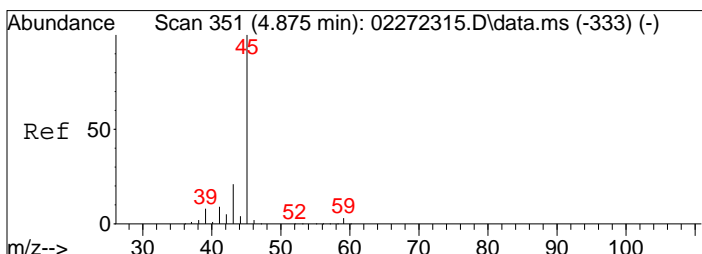
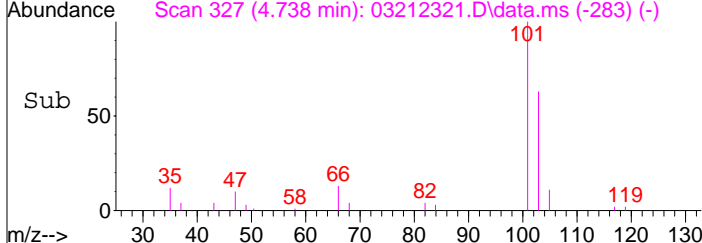
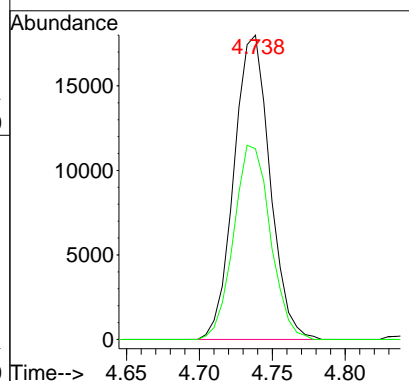
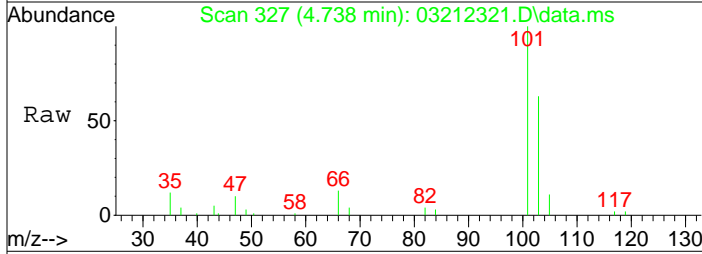
Tgt Ion: 58 Resp: 55265
 Ion Ratio Lower Upper
 58 100
 43 450.3 414.4 474.4





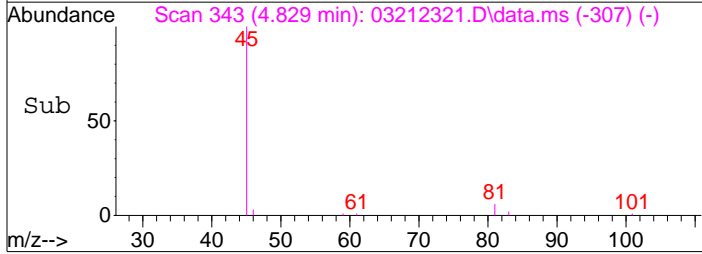
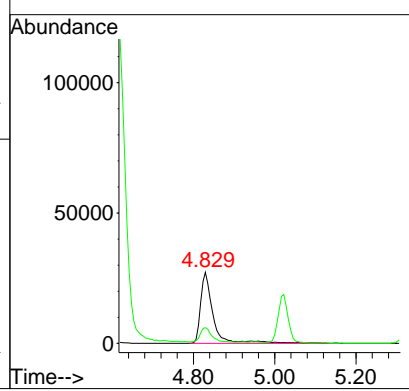
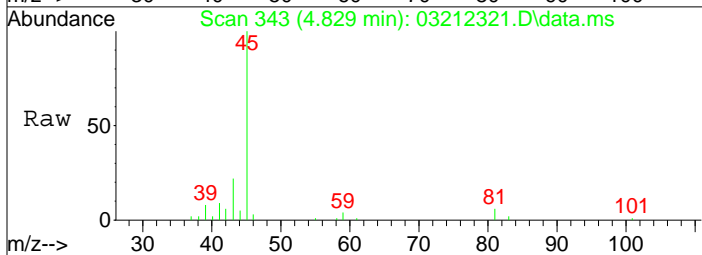
#14
 Trichlorofluoromethane
 Concen: 0.82 ng
 RT: 4.74 min Scan# 327
 Delta R.T. -0.000 min
 Lab File: 03212321.D
 Acq: 21 Mar 2023 17:19

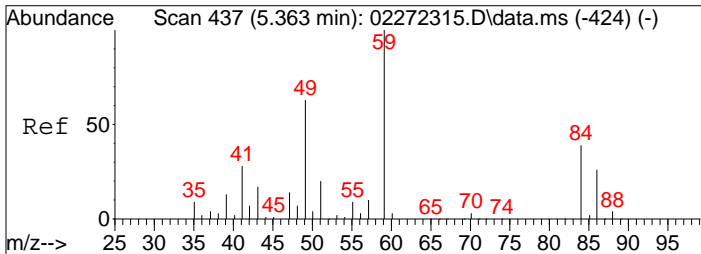
Tgt Ion	Resp	Lower	Upper
101	100		
103	65.0	44.0	84.0



#15
 2-Propanol (Isopropanol)
 Concen: 1.27 ng
 RT: 4.83 min Scan# 343
 Delta R.T. -0.046 min
 Lab File: 03212321.D
 Acq: 21 Mar 2023 17:19

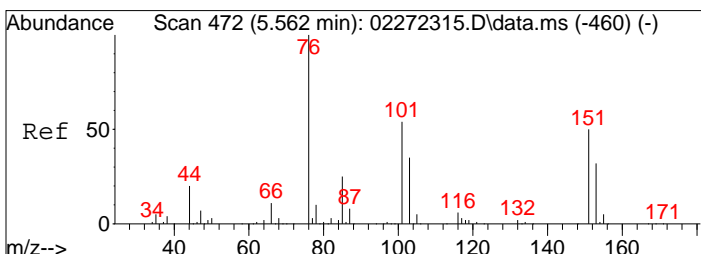
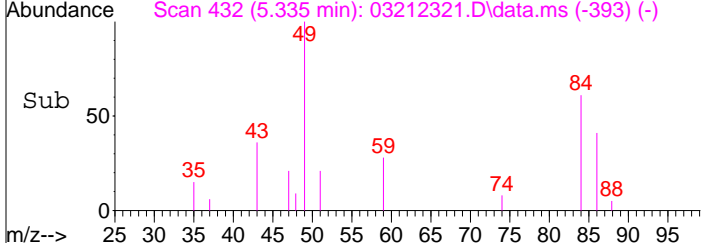
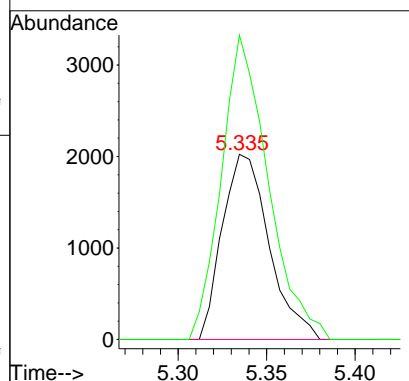
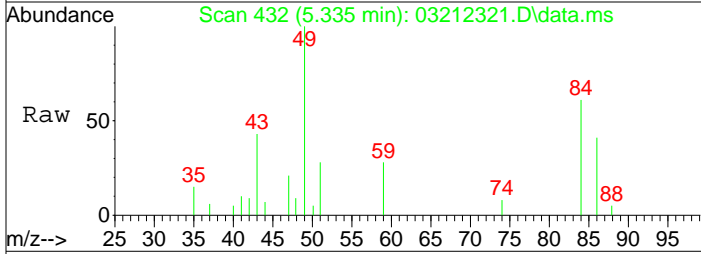
Tgt Ion	Resp	Lower	Upper
45	100		
43	21.6	1.6	41.6





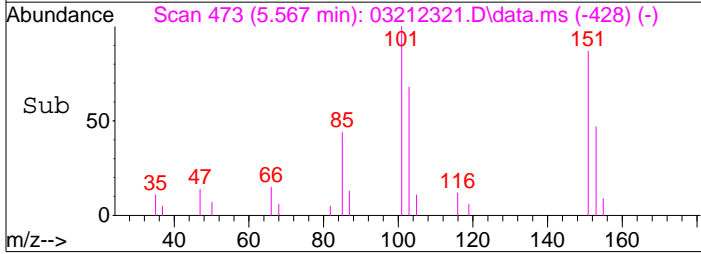
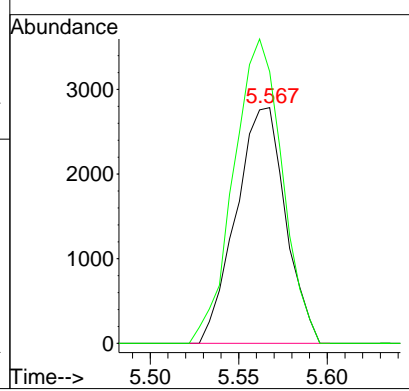
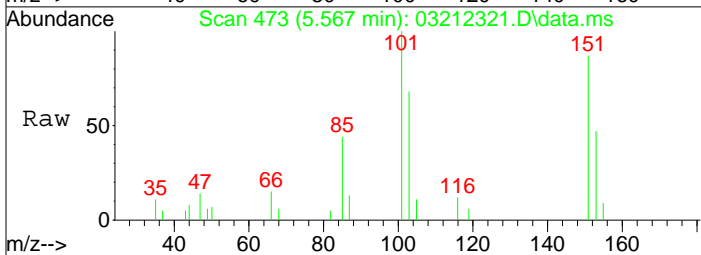
#19
 Methylene Chloride
 Concen: 0.24 ng
 RT: 5.33 min Scan# 432
 Delta R.T. -0.028 min
 Lab File: 03212321.D
 Acq: 21 Mar 2023 17:19

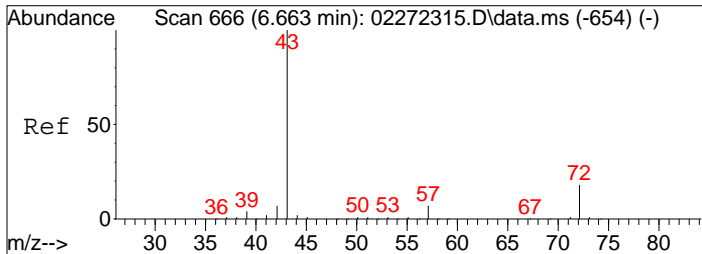
Tgt Ion	Resp	Lower	Upper
84	3728		
84	100		
49	164.3	136.0	186.0



#21
 Trichlorotrifluoroethane
 Concen: 0.32 ng
 RT: 5.57 min Scan# 473
 Delta R.T. 0.006 min
 Lab File: 03212321.D
 Acq: 21 Mar 2023 17:19

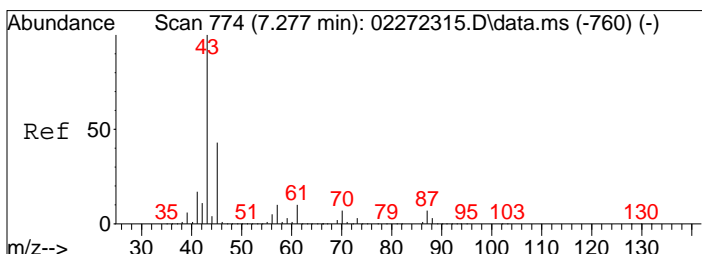
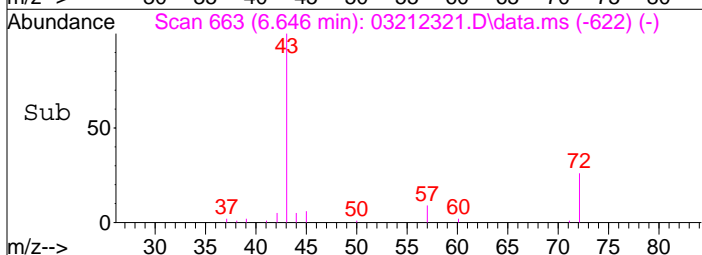
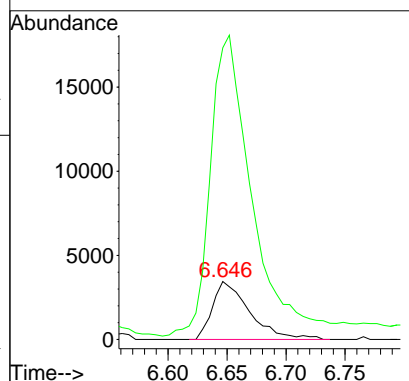
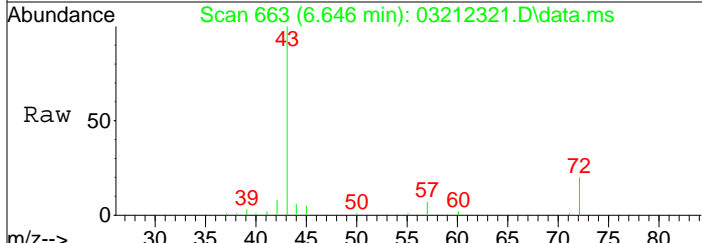
Tgt Ion	Resp	Lower	Upper
151	5417		
151	100		
101	126.8	88.2	128.2





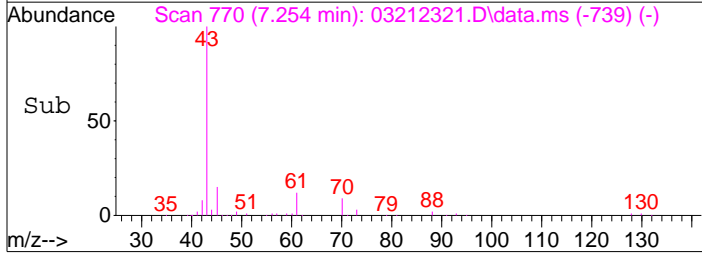
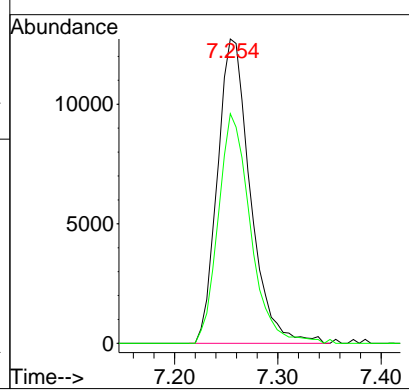
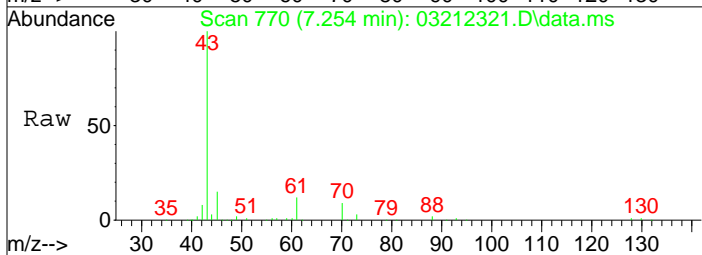
#27
 2-Butanone (MEK)
 Concen: 0.81 ng
 RT: 6.65 min Scan# 663
 Delta R.T. -0.017 min
 Lab File: 03212321.D
 Acq: 21 Mar 2023 17:19

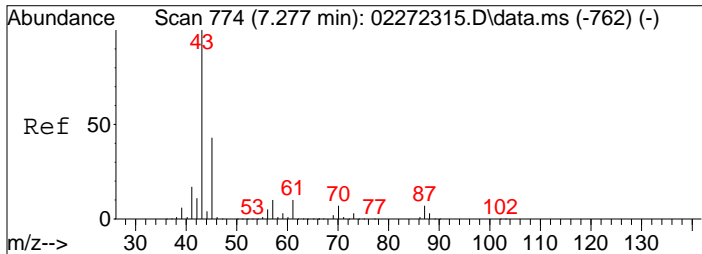
Tgt Ion	Resp	Lower	Upper
72	7571		
72	100		
43	612.6	536.0	576.0#



#30
 Ethyl Acetate
 Concen: 3.91 ng
 RT: 7.25 min Scan# 770
 Delta R.T. -0.023 min
 Lab File: 03212321.D
 Acq: 21 Mar 2023 17:19

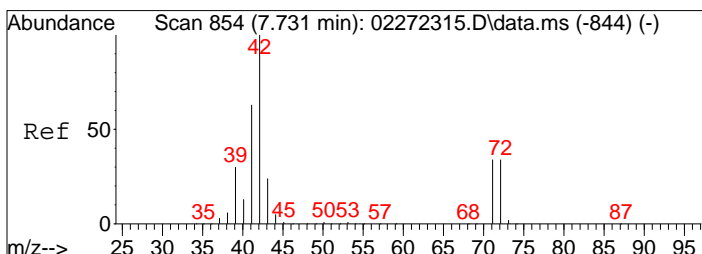
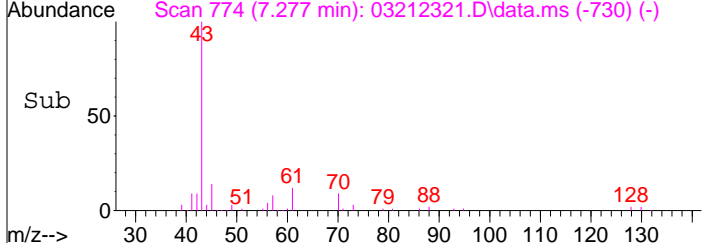
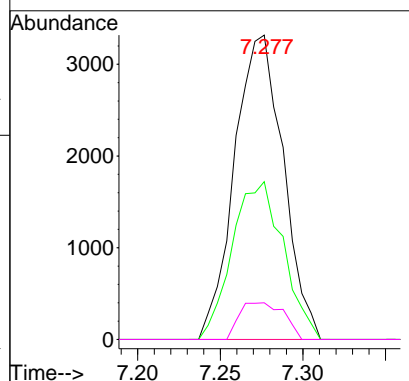
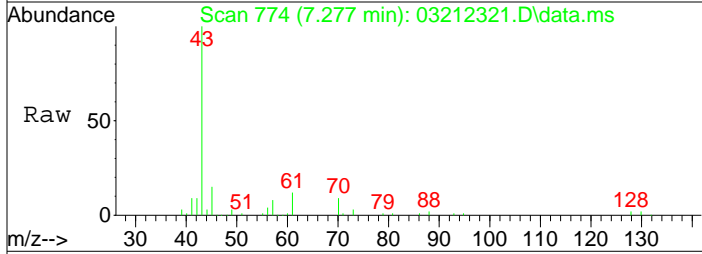
Tgt Ion	Resp	Lower	Upper
61	28170		
61	100		
70	74.1	55.8	95.8





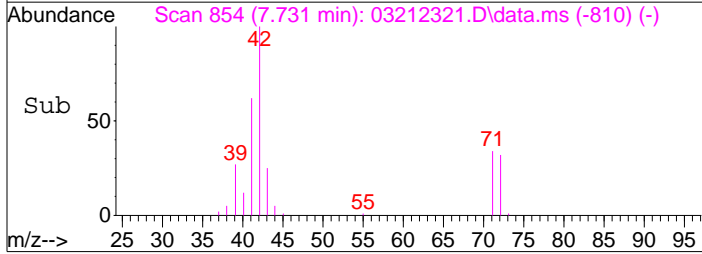
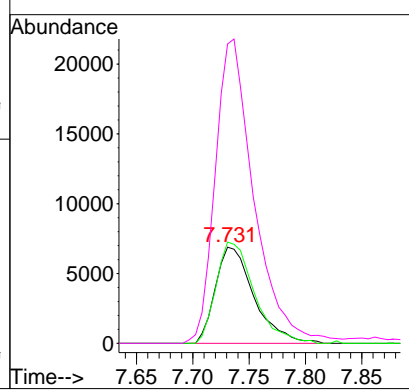
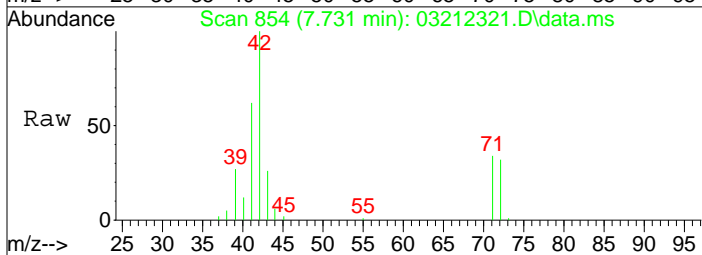
#31
 n-Hexane
 Concen: 0.23 ng
 RT: 7.28 min Scan# 774
 Delta R.T. -0.000 min
 Lab File: 03212321.D
 Acq: 21 Mar 2023 17:19

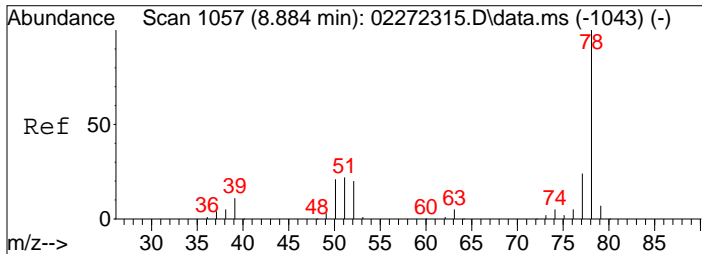
Tgt Ion:	Resp:	Lower	Upper
57	6814		
57	100		
56	54.2	43.3	64.9
86	11.0	10.2	15.2



#34
 Tetrahydrofuran (THF)
 Concen: 1.76 ng
 RT: 7.73 min Scan# 854
 Delta R.T. -0.000 min
 Lab File: 03212321.D
 Acq: 21 Mar 2023 17:19

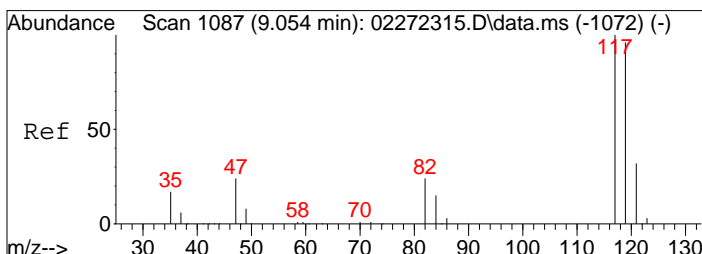
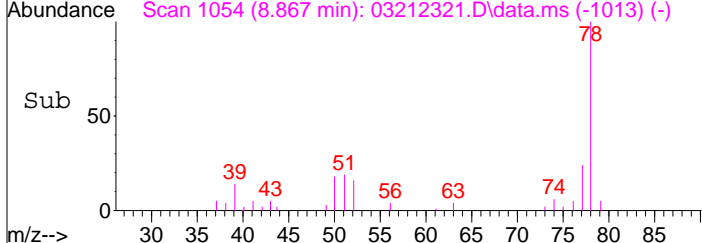
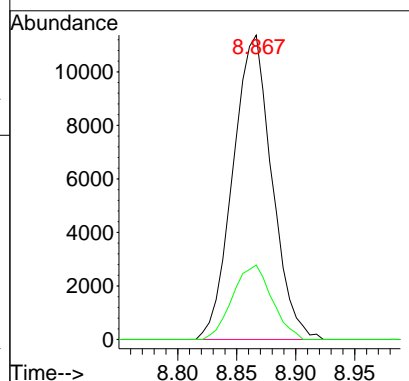
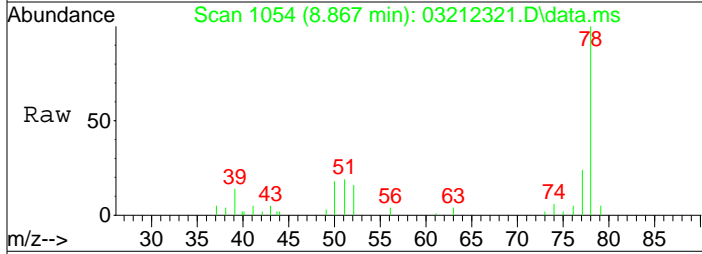
Tgt Ion:	Resp:	Lower	Upper
72	16498		
72	100		
71	103.8	81.3	121.3
42	316.5	293.7	333.7





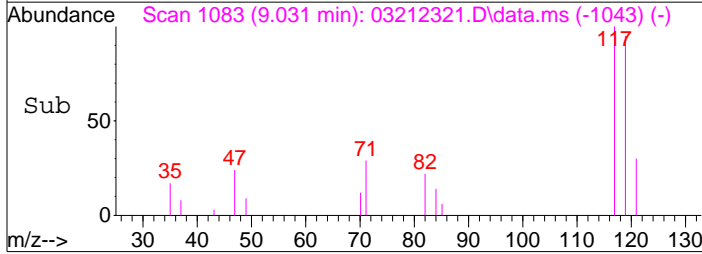
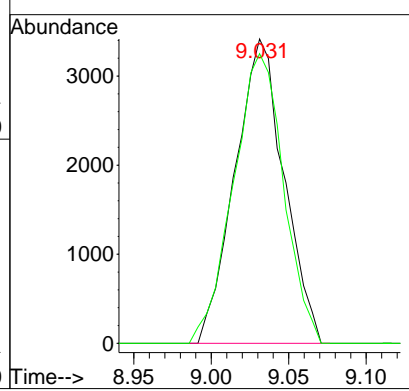
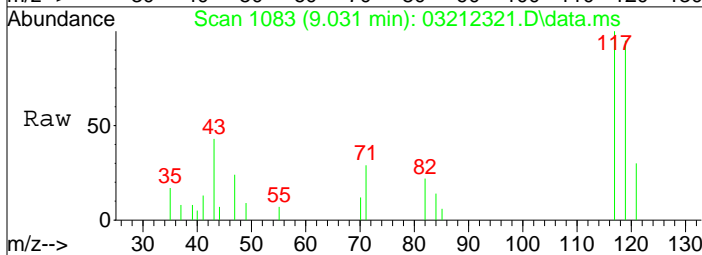
#41
Benzene
Concen: 0.42 ng
RT: 8.87 min Scan# 1054
Delta R.T. -0.017 min
Lab File: 03212321.D
Acq: 21 Mar 2023 17:19

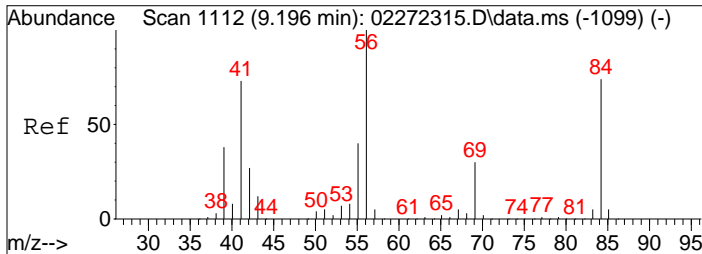
Tgt Ion:	Resp:	Lower	Upper
78	100		
77	24.6	4.0	44.0



#42
Carbon Tetrachloride
Concen: 0.27 ng
RT: 9.03 min Scan# 1083
Delta R.T. -0.023 min
Lab File: 03212321.D
Acq: 21 Mar 2023 17:19

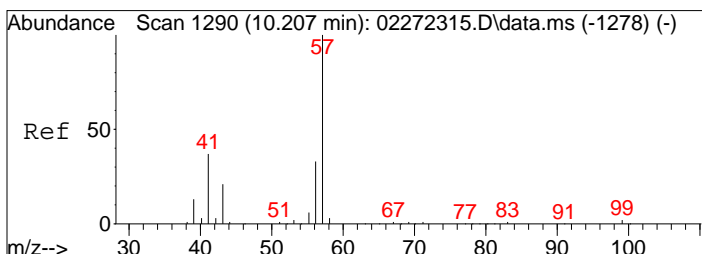
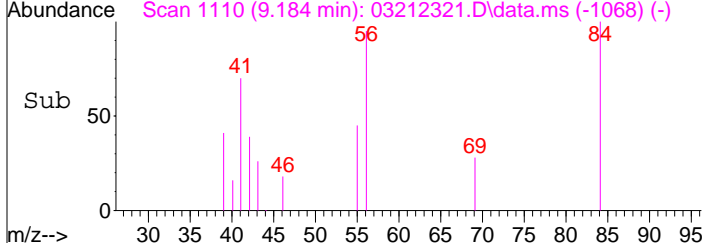
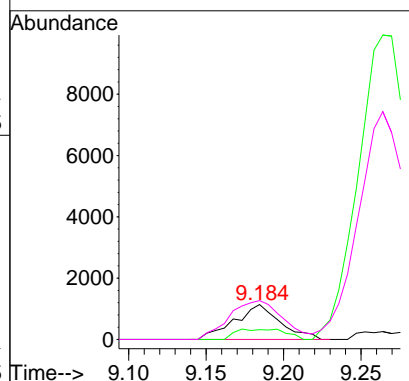
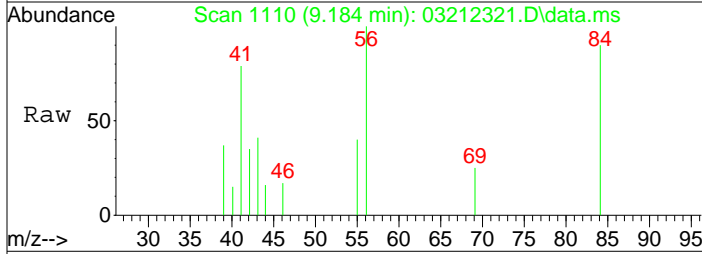
Tgt Ion:	Resp:	Lower	Upper
117	100		
119	97.2	75.5	115.5





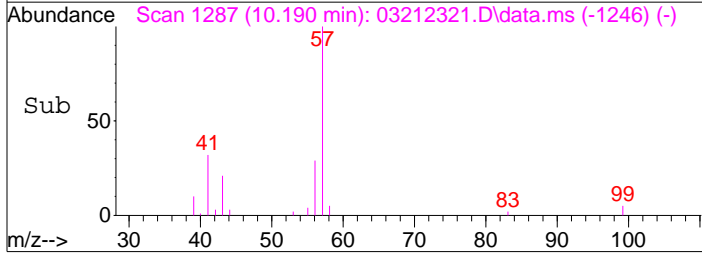
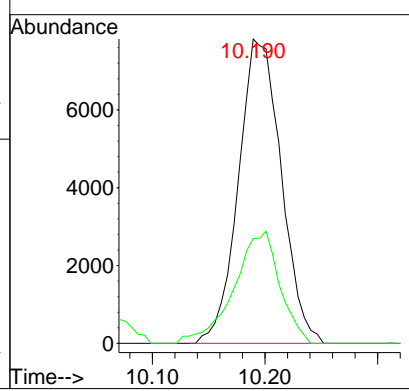
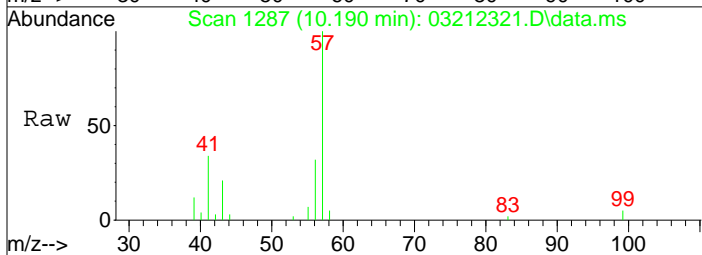
#43
 Cyclohexane
 Concen: 0.10 ng
 RT: 9.18 min Scan# 1110
 Delta R.T. -0.011 min
 Lab File: 03212321.D
 Acq: 21 Mar 2023 17:19

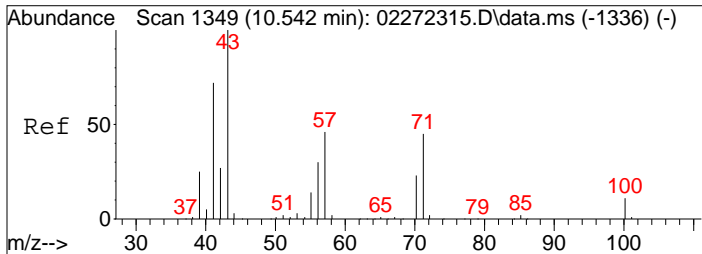
Tgt Ion:	84	Resp:	2341
Ion Ratio	Lower	Upper	
84	100		
69	31.9	20.6	60.6
56	130.5	116.1	156.1



#49
 2,2,4-Trimethylpentane (Isooctane)
 Concen: 0.27 ng
 RT: 10.19 min Scan# 1287
 Delta R.T. -0.017 min
 Lab File: 03212321.D
 Acq: 21 Mar 2023 17:19

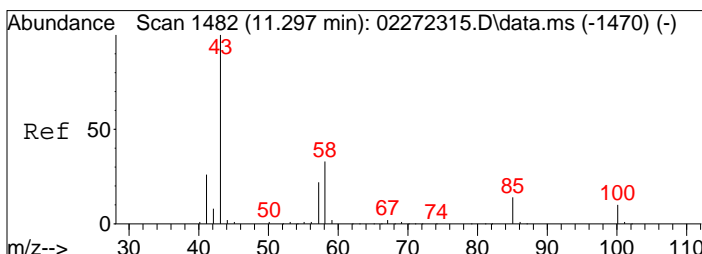
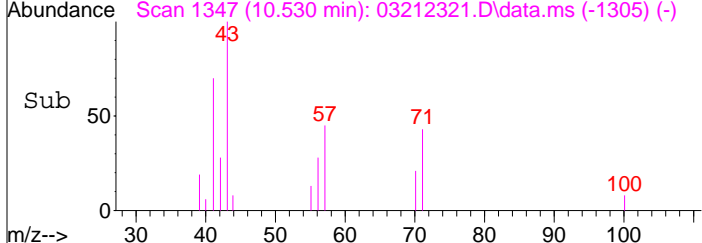
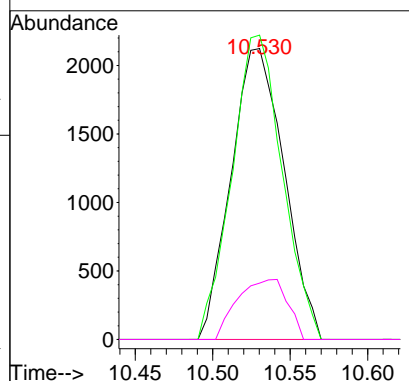
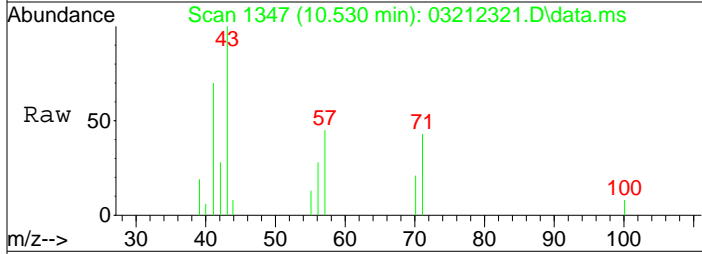
Tgt Ion:	57	Resp:	20614
Ion Ratio	Lower	Upper	
57	100		
41	39.4	17.1	57.1





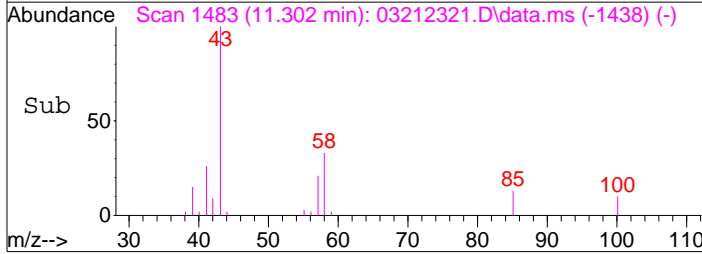
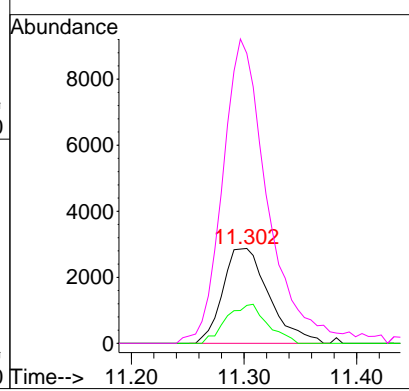
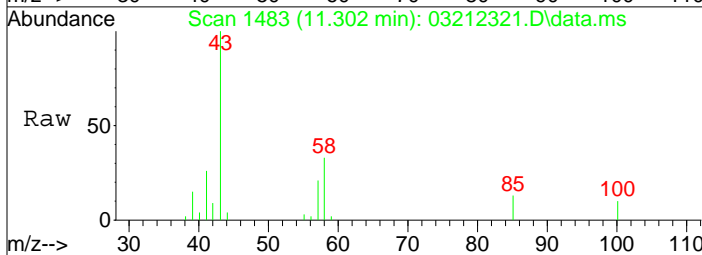
#51
 n-Heptane
 Concen: 0.32 ng
 RT: 10.53 min Scan# 1347
 Delta R.T. -0.011 min
 Lab File: 03212321.D
 Acq: 21 Mar 2023 17:19

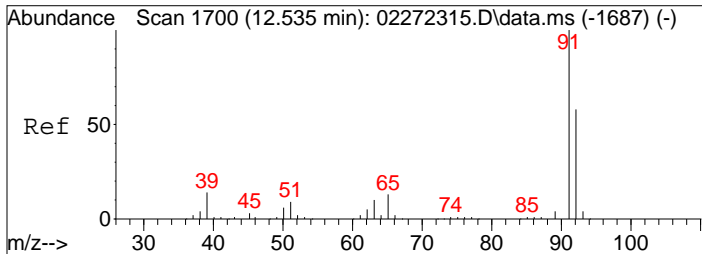
Tgt Ion	Resp	Lower	Upper
71	100		
57	99.3	84.6	124.6
100	19.4	5.8	45.8



#53
 4-Methyl-2-pentanone
 Concen: 0.53 ng
 RT: 11.30 min Scan# 1483
 Delta R.T. 0.006 min
 Lab File: 03212321.D
 Acq: 21 Mar 2023 17:19

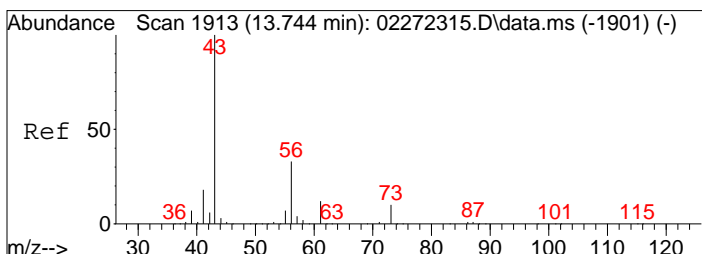
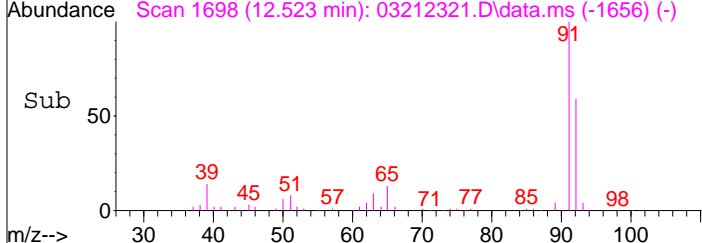
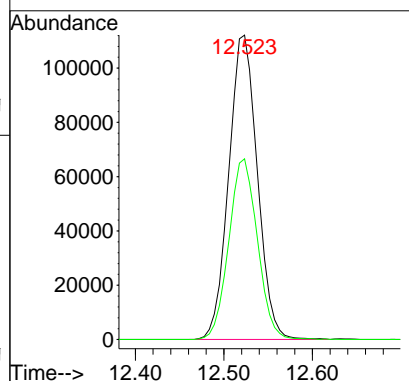
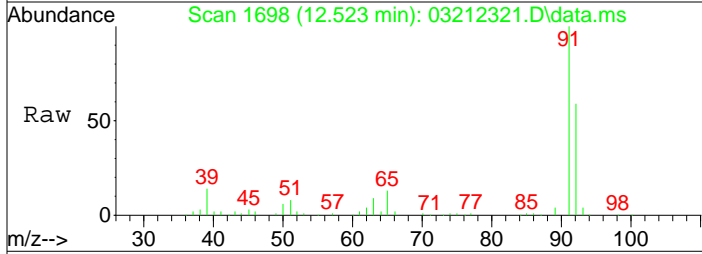
Tgt Ion	Resp	Lower	Upper
58	100		
85	36.7	35.7	53.5
43	318.3	242.9	364.3





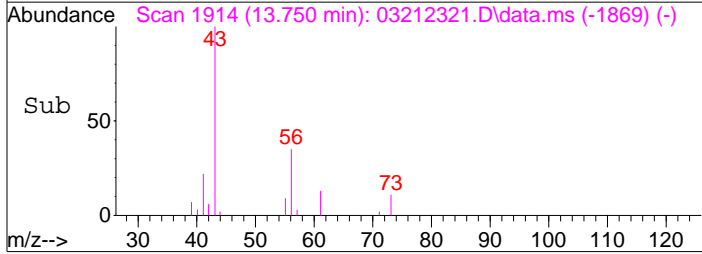
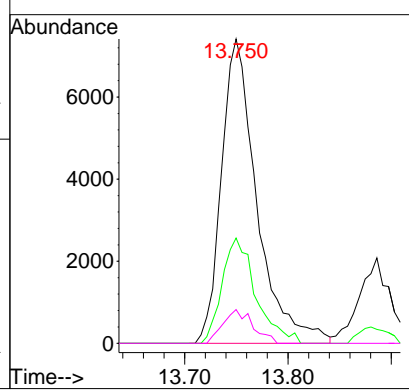
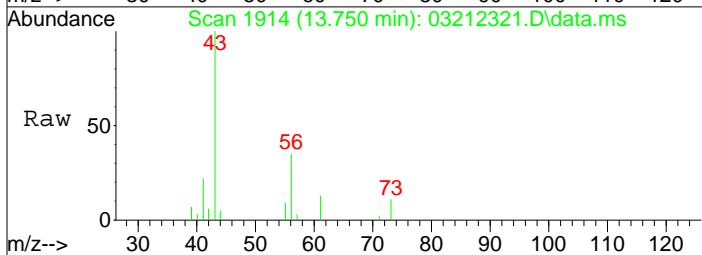
#58
 Toluene
 Concen: 3.75 ng
 RT: 12.52 min Scan# 1698
 Delta R.T. -0.011 min
 Lab File: 03212321.D
 Acq: 21 Mar 2023 17:19

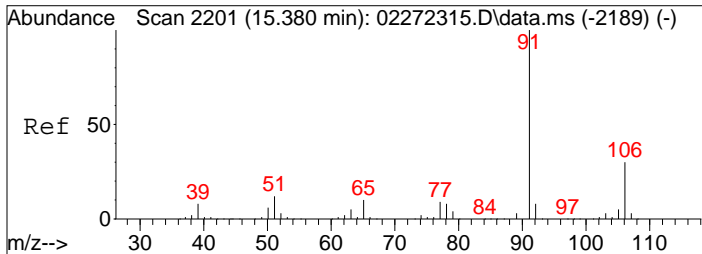
Tgt Ion:	91	92	Resp:	252300
Ion Ratio	100	59.3	Lower	37.6
			Upper	77.6



#62
 n-Butyl Acetate
 Concen: 0.38 ng
 RT: 13.75 min Scan# 1914
 Delta R.T. 0.006 min
 Lab File: 03212321.D
 Acq: 21 Mar 2023 17:19

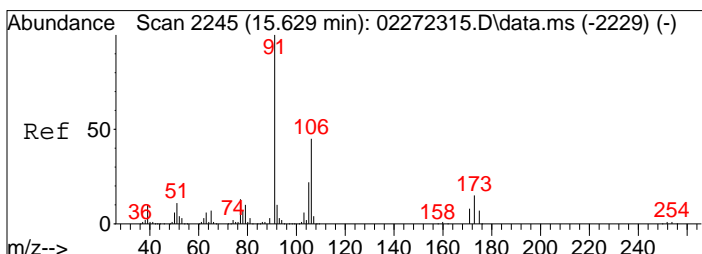
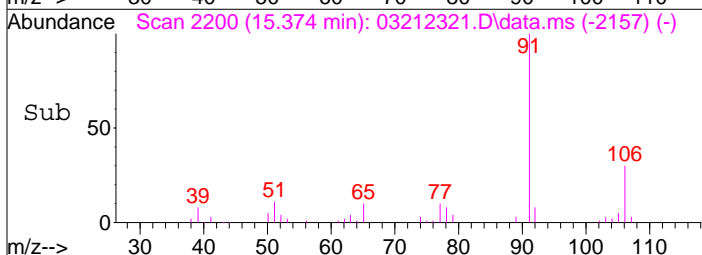
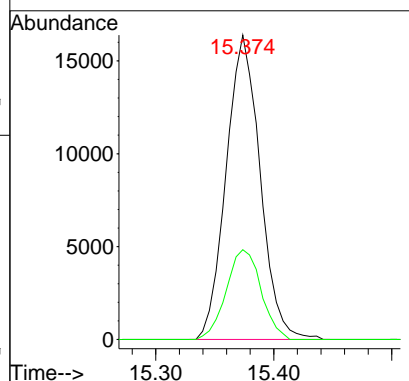
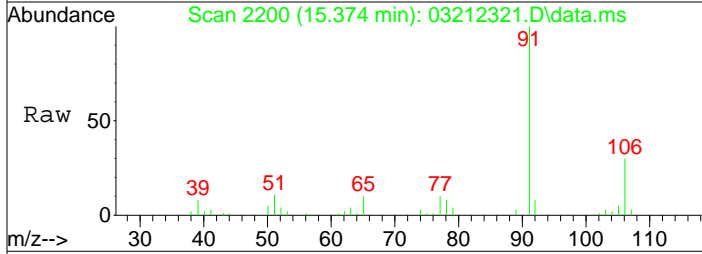
Tgt Ion:	43	56	73	Resp:	17676
Ion Ratio	100	33.0	9.4	Lower	13.1
				Upper	53.1
					29.9





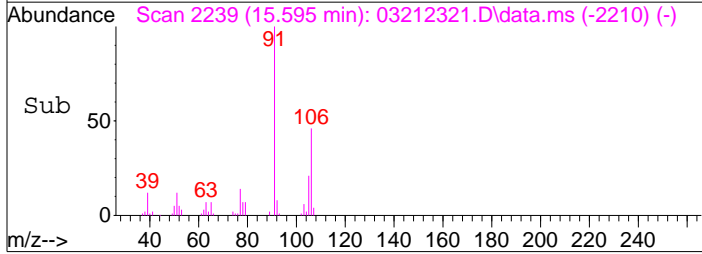
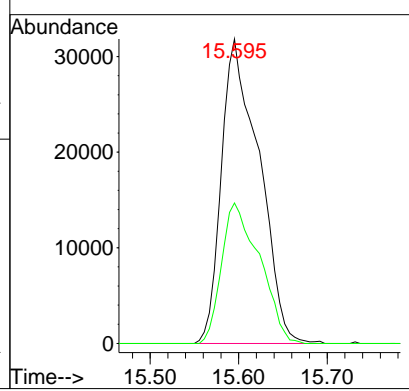
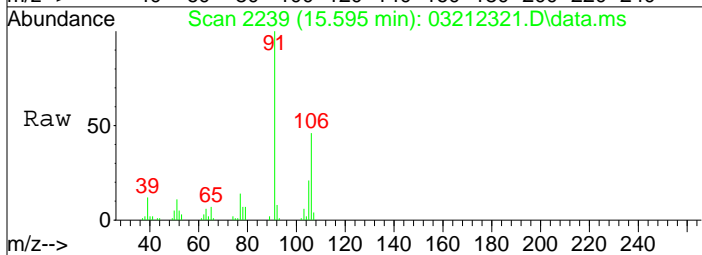
#66
 Ethylbenzene
 Concen: 0.42 ng
 RT: 15.37 min Scan# 2200
 Delta R.T. -0.006 min
 Lab File: 03212321.D
 Acq: 21 Mar 2023 17:19

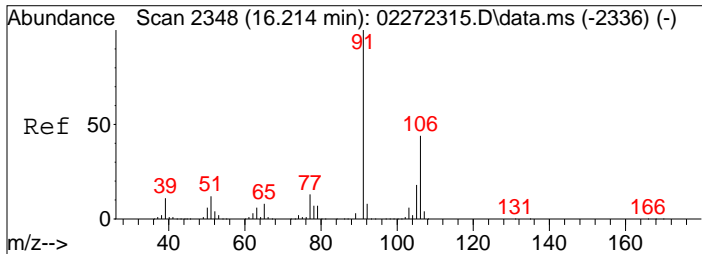
Tgt Ion	Resp	Lower	Upper
91	32792	100	
106	30.2	10.3	50.3



#67
 m- & p-Xylenes
 Concen: 1.48 ng
 RT: 15.60 min Scan# 2239
 Delta R.T. -0.034 min
 Lab File: 03212321.D
 Acq: 21 Mar 2023 17:19

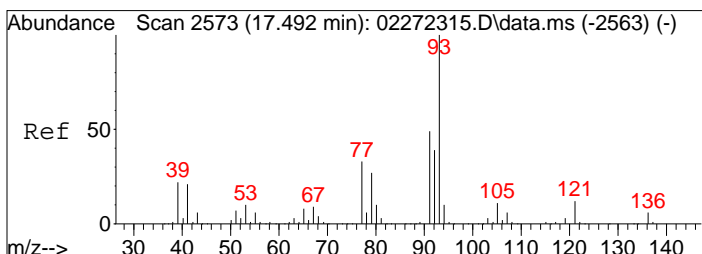
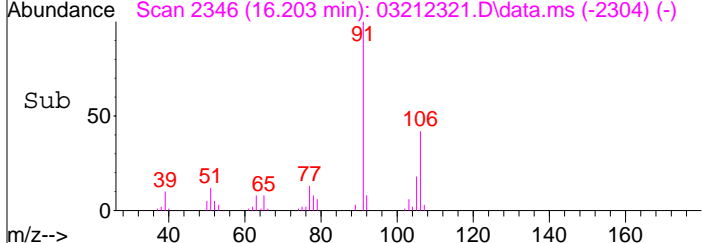
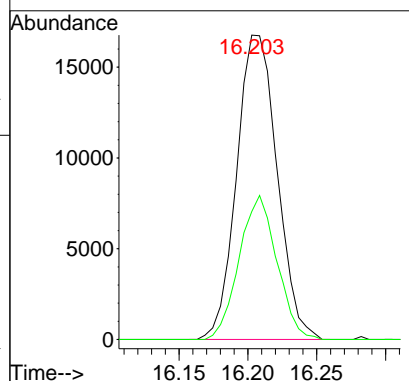
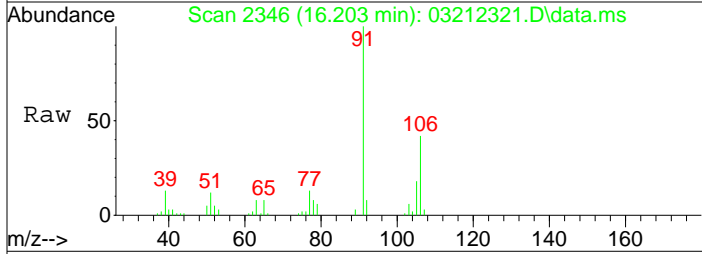
Tgt Ion	Resp	Lower	Upper
91	93868	100	
106	46.7	25.0	65.0





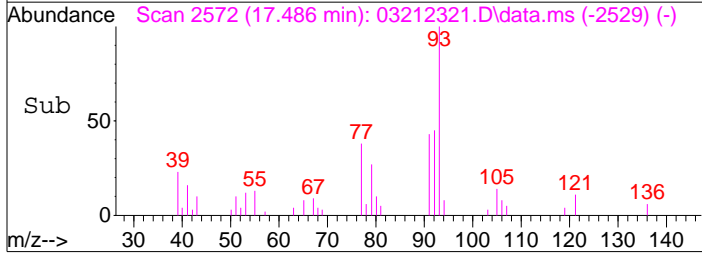
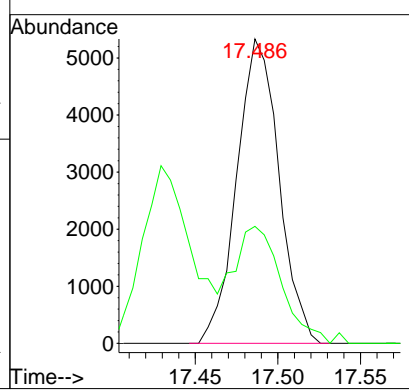
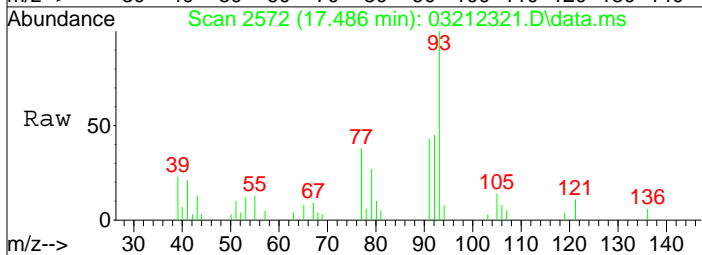
#70
 o-Xylene
 Concen: 0.55 ng
 RT: 16.20 min Scan# 2346
 Delta R.T. -0.011 min
 Lab File: 03212321.D
 Acq: 21 Mar 2023 17:19

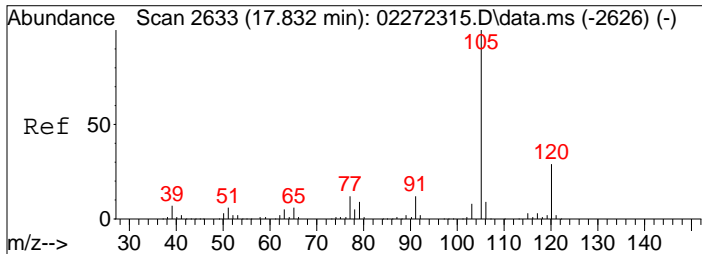
Tgt Ion	Resp	Lower	Upper
91	100		
106	44.1	24.0	64.0



#75
 alpha-Pinene
 Concen: 0.29 ng
 RT: 17.49 min Scan# 2572
 Delta R.T. -0.006 min
 Lab File: 03212321.D
 Acq: 21 Mar 2023 17:19

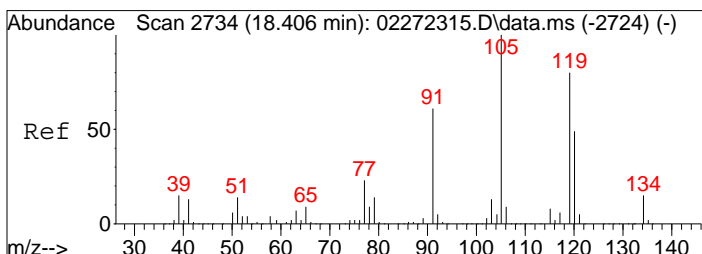
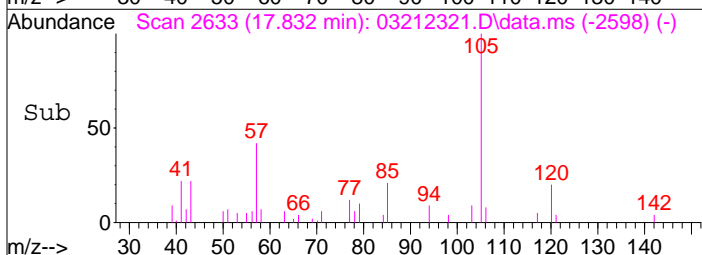
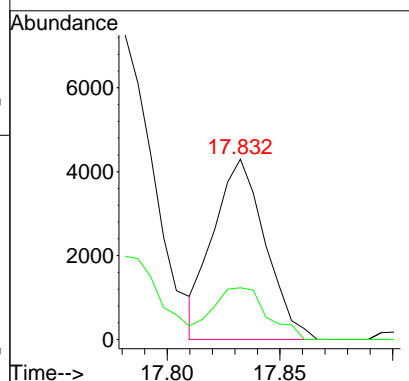
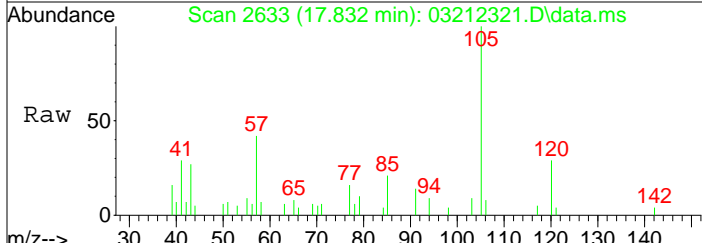
Tgt Ion	Resp	Lower	Upper
93	100		
77	44.6	14.2	54.2





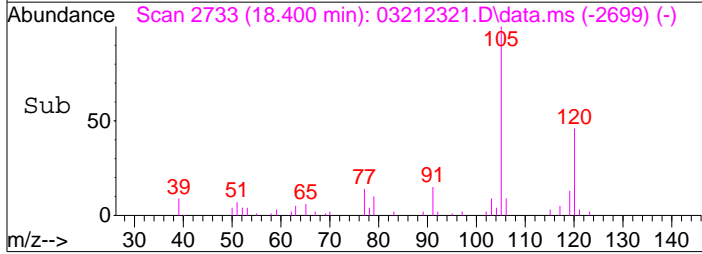
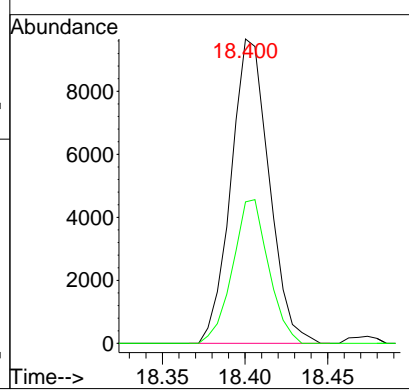
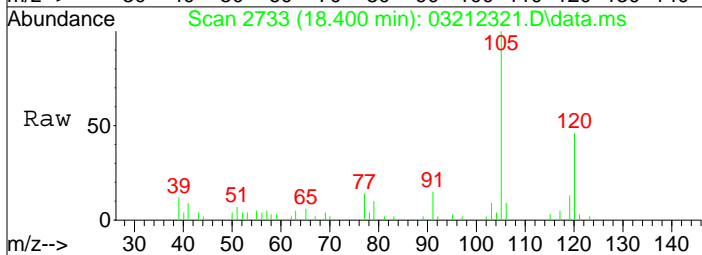
#78
 4-Ethyltoluene
 Concen: 0.09 ng
 RT: 17.83 min Scan# 2633
 Delta R.T. -0.000 min
 Lab File: 03212321.D
 Acq: 21 Mar 2023 17:19

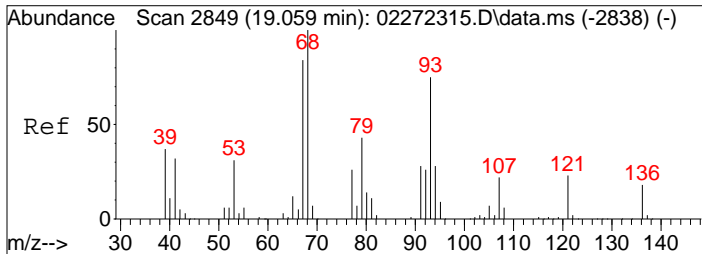
Tgt Ion	Resp	Lower	Upper
105	6877	100	100
120	30.3	8.5	48.5



#82
 1,2,4-Trimethylbenzene
 Concen: 0.23 ng
 RT: 18.40 min Scan# 2733
 Delta R.T. -0.006 min
 Lab File: 03212321.D
 Acq: 21 Mar 2023 17:19

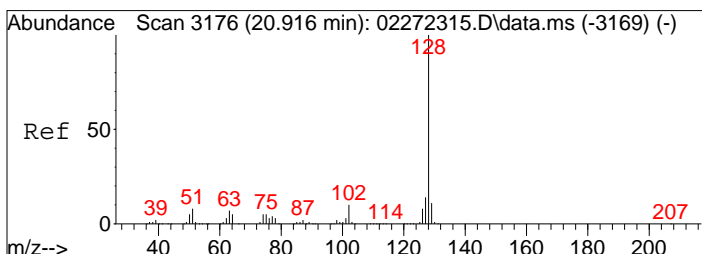
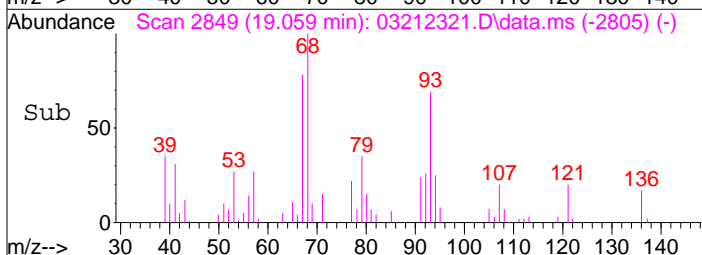
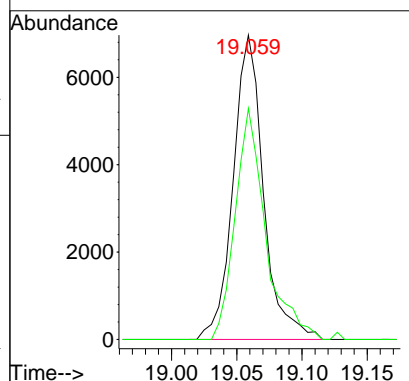
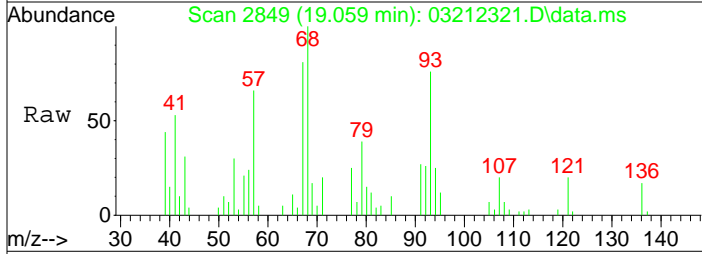
Tgt Ion	Resp	Lower	Upper
105	15500	100	100
120	44.5	30.5	70.5





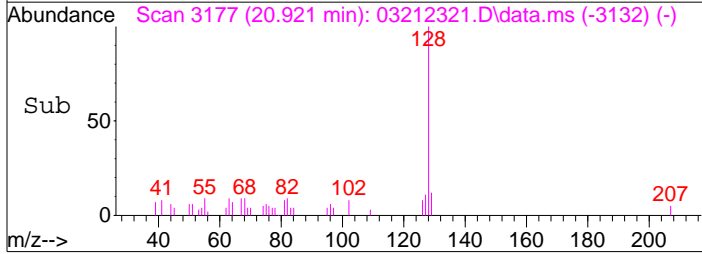
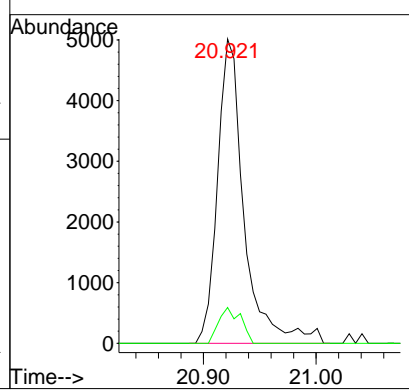
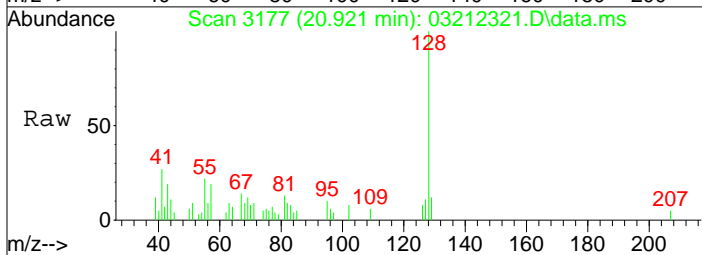
#91
 d-Limonene
 Concen: 0.51 ng
 RT: 19.06 min Scan# 2849
 Delta R.T. -0.000 min
 Lab File: 03212321.D
 Acq: 21 Mar 2023 17:19

Tgt Ion	Resp	Lower	Upper
68	100		
93	76.2	55.7	95.7



#95
 Naphthalene
 Concen: 0.14 ng
 RT: 20.92 min Scan# 3177
 Delta R.T. 0.006 min
 Lab File: 03212321.D
 Acq: 21 Mar 2023 17:19

Tgt Ion	Resp	Lower	Upper
128	100		
129	9.8	0.0	31.0



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: New York State DEC
Client Sample ID: Building-4-SS2-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-011

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC02405

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.88 Final Pressure (psig): 3.45

Canister Dilution Factor: 1.31

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	1.2	0.69	0.70	0.40	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	0.69	0.44	0.14	
74-87-3	Chloromethane	ND	0.28	ND	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.68	ND	0.097	
75-01-4	Vinyl Chloride	ND	0.14	ND	0.056	
106-99-0	1,3-Butadiene	ND	0.28	ND	0.12	
74-83-9	Bromomethane	ND	0.28	ND	0.071	
75-00-3	Chloroethane	ND	0.28	ND	0.10	
64-17-5	Ethanol	27	6.6	14	3.5	
75-05-8	Acetonitrile	ND	1.3	ND	0.78	
107-02-8	Acrolein	ND	1.3	ND	0.57	
67-64-1	Acetone	8.6	6.9	3.6	2.9	
75-69-4	Trichlorofluoromethane (CFC 11)	1.2	0.68	0.22	0.12	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.6	1.3	0.64	0.55	
107-13-1	Acrylonitrile	ND	1.3	ND	0.60	
75-35-4	1,1-Dichloroethene	ND	0.14	ND	0.036	
75-09-2	Methylene Chloride	ND	0.69	ND	0.20	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.69	ND	0.22	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.71	ND	0.092	
75-15-0	Carbon Disulfide	ND	1.4	ND	0.45	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	ND	0.036	
75-34-3	1,1-Dichloroethane	ND	0.14	ND	0.036	
1634-04-4	Methyl tert-Butyl Ether	ND	0.71	ND	0.20	
108-05-4	Vinyl Acetate	ND	6.6	ND	1.9	
78-93-3	2-Butanone (MEK)	ND	1.4	ND	0.46	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3

Client: New York State DEC
Client Sample ID: Building-4-SS2-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-011

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC02405

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.88 Final Pressure (psig): 3.45

Canister Dilution Factor: 1.31

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.14	ND	0.036	
141-78-6	Ethyl Acetate	13	2.8	3.5	0.76	
110-54-3	n-Hexane	ND	0.69	ND	0.20	
67-66-3	Chloroform	ND	0.14	ND	0.030	
109-99-9	Tetrahydrofuran (THF)	1.4	0.66	0.47	0.22	
107-06-2	1,2-Dichloroethane	ND	0.14	ND	0.036	
71-55-6	1,1,1-Trichloroethane	0.18	0.14	0.032	0.026	
71-43-2	Benzene	0.54	0.14	0.17	0.045	
56-23-5	Carbon Tetrachloride	0.17	0.14	0.026	0.023	
110-82-7	Cyclohexane	ND	1.4	ND	0.40	
78-87-5	1,2-Dichloropropane	ND	0.14	ND	0.031	
75-27-4	Bromodichloromethane	ND	0.14	ND	0.022	
79-01-6	Trichloroethene	ND	0.14	ND	0.027	
123-91-1	1,4-Dioxane	ND	0.69	ND	0.19	
80-62-6	Methyl Methacrylate	ND	1.4	ND	0.35	
142-82-5	n-Heptane	ND	0.69	ND	0.17	
10061-01-5	cis-1,3-Dichloropropene	ND	0.71	ND	0.16	
108-10-1	4-Methyl-2-pentanone	ND	1.4	ND	0.35	
10061-02-6	trans-1,3-Dichloropropene	ND	0.67	ND	0.15	
79-00-5	1,1,2-Trichloroethane	ND	0.14	ND	0.026	
108-88-3	Toluene	4.6	0.69	1.2	0.18	
591-78-6	2-Hexanone	ND	1.4	ND	0.35	
124-48-1	Dibromochloromethane	ND	0.14	ND	0.017	
106-93-4	1,2-Dibromoethane	ND	0.14	ND	0.019	
123-86-4	n-Butyl Acetate	ND	1.3	ND	0.28	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3 of 3

Client: New York State DEC
Client Sample ID: Building-4-SS2-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-011

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC02405

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.88 Final Pressure (psig): 3.45

Canister Dilution Factor: 1.31

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.71	ND	0.15	
127-18-4	Tetrachloroethene	2.3	0.14	0.34	0.021	
108-90-7	Chlorobenzene	ND	0.69	ND	0.15	
100-41-4	Ethylbenzene	ND	0.69	ND	0.16	
179601-23-1	m,p-Xylenes	2.2	1.4	0.50	0.33	
75-25-2	Bromoform	ND	0.71	ND	0.068	
100-42-5	Styrene	ND	0.69	ND	0.16	
95-47-6	o-Xylene	0.82	0.69	0.19	0.16	
111-84-2	n-Nonane	ND	0.69	ND	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	ND	0.021	
98-82-8	Cumene	ND	0.71	ND	0.14	
80-56-8	alpha-Pinene	ND	1.4	ND	0.26	
103-65-1	n-Propylbenzene	ND	0.71	ND	0.14	
622-96-8	4-Ethyltoluene	ND	0.72	ND	0.15	
108-67-8	1,3,5-Trimethylbenzene	ND	0.69	ND	0.14	
95-63-6	1,2,4-Trimethylbenzene	ND	0.69	ND	0.14	
100-44-7	Benzyl Chloride	ND	2.8	ND	0.54	
541-73-1	1,3-Dichlorobenzene	ND	0.69	ND	0.12	
106-46-7	1,4-Dichlorobenzene	ND	0.69	ND	0.12	
95-50-1	1,2-Dichlorobenzene	ND	0.71	ND	0.12	
5989-27-5	d-Limonene	ND	1.4	ND	0.26	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.4	ND	0.15	
120-82-1	1,2,4-Trichlorobenzene	ND	1.4	ND	0.19	
91-20-3	Naphthalene	ND	0.72	ND	0.14	
87-68-3	Hexachlorobutadiene	ND	0.69	ND	0.065	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Data File : I:\MS09\DATA\2023 03\21\03212322.D
 Acq On : 21 Mar 2023 17:51
 Sample : P2301184-011 (1000ml)
 Misc : S35-02212305

Vial: 14
 Operator: WA/SR
 Inst : MS09

DA 3/22/23

Quant Time: Mar 22 04:56:51 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	7.20	130	162747	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.27	114	734962	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.81	54	166800	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.97	65	353612	12.834	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery	=	102.64%	
57) Toluene-d8 (SS2)	12.39	98	874769	13.802	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	110.40%	
73) Bromofluorobenzene (SS3)	16.79	174	268217	10.378	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	83.04%	

Target Compounds

						Qvalue
2) Propene	3.28	42	19914	0.920	ng	97
3) Dichlorodifluoromethan...	3.35	85	61912	1.648	ng	99
4) Chloromethane	3.47	50	2907	0.123	ng	# 42
5) 1,2-Dichloro-1,1,2,2-t...	3.59	135	1110	N.D.		
6) Vinyl Chloride	3.55	62	1662	N.D.		
7) 1,3-Butadiene	3.75	54	266	N.D.		
8) Bromomethane	4.02	94	264	N.D.		
9) Chloroethane	4.06	64	180	N.D.		
10) Ethanol	4.28	45	315327	20.418	ng	99
11) Acetonitrile	4.43	41	7150	0.182	ng	90
12) Acrolein	4.52	56	1878	0.182	ng	97
13) Acetone	4.61	58	76639	6.549	ng	99
14) Trichlorofluoromethane	4.73	101	35213	0.940	ng	98
15) 2-Propanol (Isopropanol)	4.83	45	54944	1.203	ng	96
16) Acrylonitrile	5.02	53	794	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	5.33	84	659	N.D.		
20) 3-Chloro-1-propene (Al...	5.43	41	508	N.D.		
21) Trichlorotrifluoroethane	5.55	151	4876	0.288	ng	# 77
22) Carbon Disulfide	5.58	76	28005	0.498	ng	98
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	6.27	63	243	N.D.		
25) Methyl tert-Butyl Ether	6.28	73	2626	N.D.		
26) Vinyl Acetate	6.41	86	2712	1.196	ng	# 1
27) 2-Butanone (MEK)	6.65	72	8201	0.879	ng	# 86
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	7.26	87	999	N.D.		
30) Ethyl Acetate	7.25	61	68871	9.603	ng	99
31) n-Hexane	7.27	57	13365	0.449	ng	98
32) Chloroform	7.33	83	732	N.D.		
34) Tetrahydrofuran (THF)	7.74	72	9788	1.048	ng	# 84
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.08	62	191	N.D.		
38) 1,1,1-Trichloroethane	8.36	97	4356	0.134	ng	97
39) Isopropyl Acetate	9.26	61	24557	No Calib	#	
40) 1-Butanol	8.79	56	16584	No Calib	#	
41) Benzene	8.86	78	25765	0.411	ng	97
42) Carbon Tetrachloride	9.03	117	3503	0.127	ng	96
43) Cyclohexane	9.18	84	3922	0.168	ng	96
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	9.84	63	263	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	10.13	88	175	N.D.		
49) 2,2,4-Trimethylpentane...	10.20	57	53840	0.702	ng	99
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS09\DATA\2023 03\21\03212322.D
 Acq On : 21 Mar 2023 17:51
 Sample : P2301184-011 (1000ml)
 Misc : S35-02212305

Vial: 14
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 22 04:56:51 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

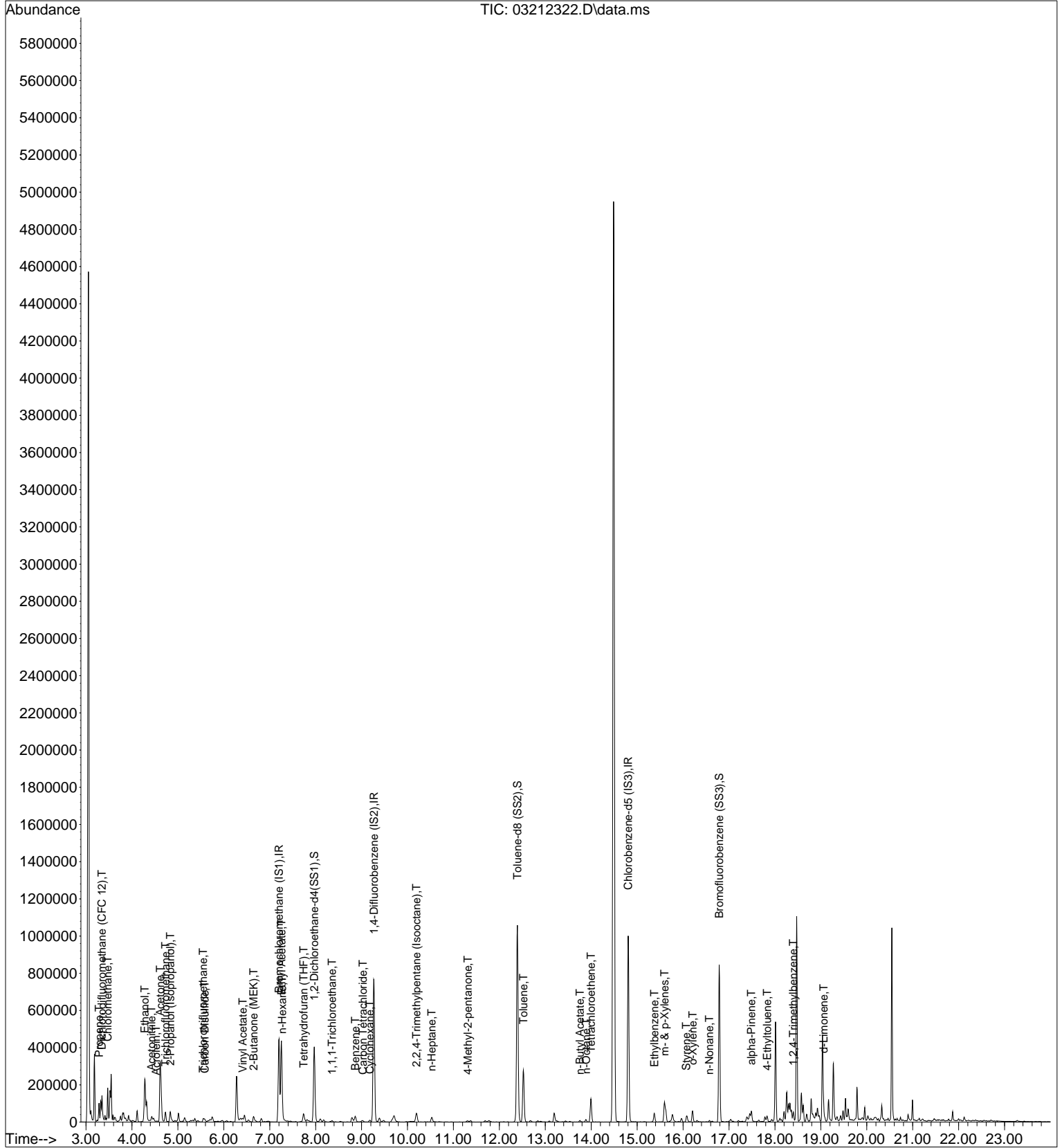
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
51) n-Heptane	10.52	71	6164	0.394	ng	98
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.31	58	2085	0.136	ng #	64
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.52	91	238049	3.528	ng	97
59) 2-Hexanone	12.90	43	3660	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.76	43	10344	0.219	ng	96
63) n-Octane	13.89	57	2630	0.179	ng	89
64) Tetrachloroethene	13.99	166	41456	1.782	ng	99
65) Chlorobenzene	14.86	112	542	N.D.		
66) Ethylbenzene	15.37	91	38996	0.504	ng	100
67) m- & p-Xylenes	15.60	91	105859	1.667	ng	97
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.07	104	6000	0.150	ng	97
70) o-Xylene	16.21	91	39199	0.626	ng	99
71) n-Nonane	16.57	43	4237	0.107	ng	96
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	17.00	105	3611	N.D.		
75) alpha-Pinene	17.49	93	23476	0.722	ng	96
76) n-Propylbenzene	17.64	91	8019	N.D.		
77) 3-Ethyltoluene	17.00	105	3611	No Calib		
78) 4-Ethyltoluene	17.83	105	8858	0.121	ng	99
79) 1,3,5-Trimethylbenzene	17.93	105	5526	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.00	105	3611	No Calib		
82) 1,2,4-Trimethylbenzene	18.40	105	21949	0.330	ng	90
83) n-Decane	17.03	58	281	No Calib	#	
84) Benzyl Chloride	18.47	91	701	N.D.		
85) 1,3-Dichlorobenzene	18.56	146	677	N.D.		
86) 1,4-Dichlorobenzene	18.63	146	478	N.D.		
87) sec-Butylbenzene	18.71	105	1054	N.D.		
88) 4-Isopropyltoluene (p-...	18.90	119	6045	N.D.		
89) 1,2,3-Trimethylbenzene	17.00	105	3611	No Calib		
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	19.06	68	17978	0.806	ng	97
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.08	58	2543	No Calib	#	
94) 1,2,4-Trichlorobenzene	20.82	180	159	N.D.		
95) Naphthalene	20.93	128	2209	N.D.		
96) n-Dodecane	19.04	58	11760	No Calib	#	
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	15.29	55	107	No Calib	#	
99) tert-Butylbenzene	18.41	119	2705	N.D.		
100) n-Butylbenzene	19.36	91	2550	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\21\03212322.D
 Acq On : 21 Mar 2023 17:51
 Sample : P2301184-011 (1000ml)
 Misc : S35-02212305

Vial: 14
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 22 04:56:51 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2023 03\21\03212322.D
 Acq On : 21 Mar 2023 17:51
 Sample : P2301184-011 (1000ml)
 Misc : S35-02212305

Vial: 14
 Operator: WA/SR
 Inst : MS09

3/22/23

Quant Time: Mar 22 04:56:51 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	7.20	130	162747	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.27	114	734962	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.81	54	166800	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.97	65	353612	12.834	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.64%
57) Toluene-d8 (SS2)	12.39	98	874769	13.802	ng	-0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	110.40%
73) Bromofluorobenzene (SS3)	16.79	174	268217	10.378	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	83.04%

Target Compounds

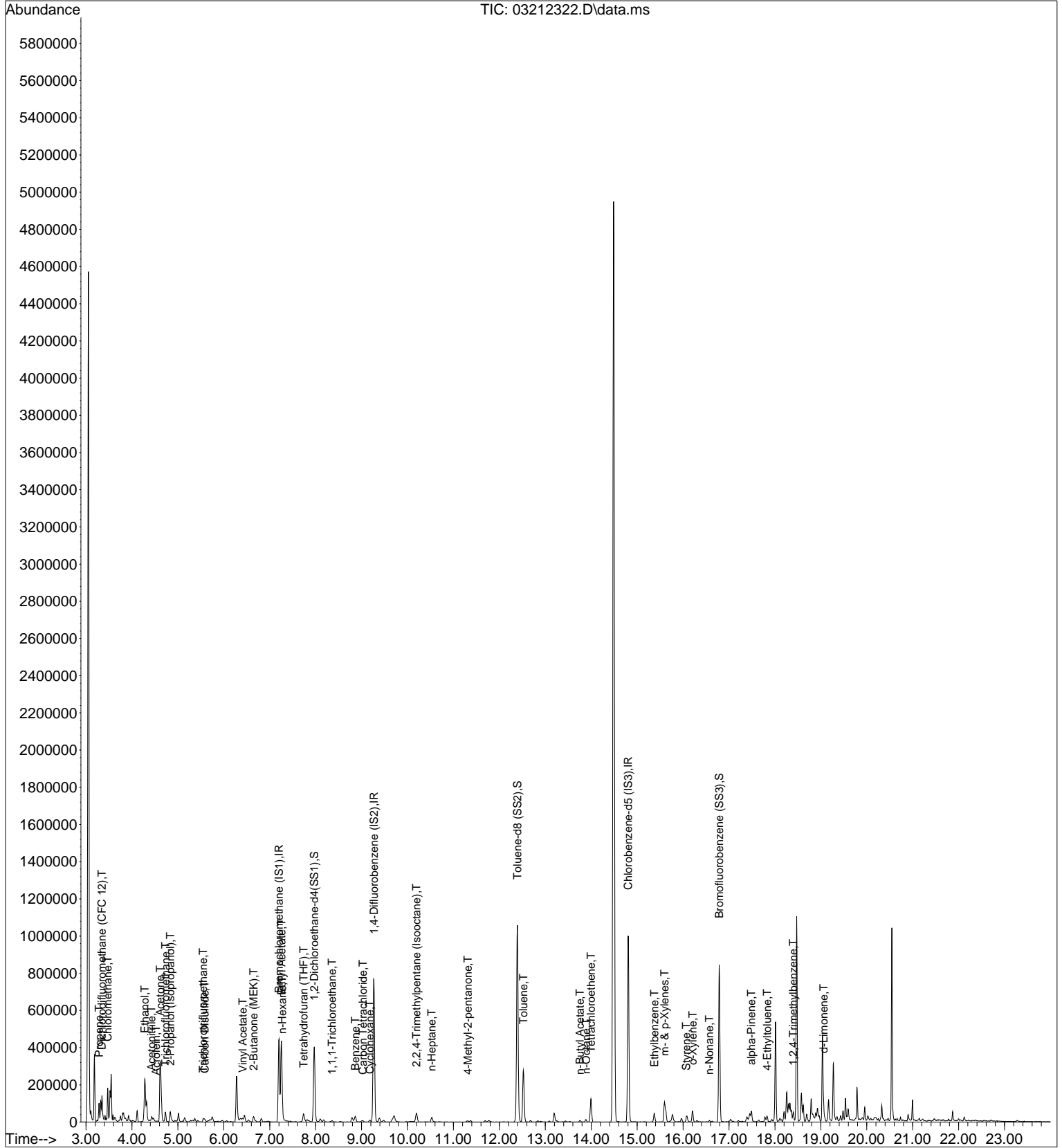
	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.28	42	19914	0.920	ng	97
3) Dichlorodifluoromethan...	3.35	85	61912	1.648	ng	99
4) Chloromethane	3.47	50	2907	0.123	ng	# 42
10) Ethanol	4.28	45	315327	20.418	ng	99
11) Acetonitrile	4.43	41	7150	0.182	ng	90
12) Acrolein	4.52	56	1878	0.182	ng	97
13) Acetone	4.61	58	76639	6.549	ng	99
14) Trichlorofluoromethane	4.73	101	35213	0.940	ng	98
15) 2-Propanol (Isopropanol)	4.83	45	54944	1.203	ng	96
21) Trichlorotrifluoroethane	5.55	151	4876	0.288	ng	# 77
22) Carbon Disulfide	5.58	76	28005	0.498	ng	98
26) Vinyl Acetate	6.41	86	2712	1.196	ng	# 1
27) 2-Butanone (MEK)	6.65	72	8201	0.879	ng	# 86
30) Ethyl Acetate	7.25	61	68871	9.603	ng	99
31) n-Hexane	7.27	57	13365	0.449	ng	98
34) Tetrahydrofuran (THF)	7.74	72	9788	1.048	ng	# 84
38) 1,1,1-Trichloroethane	8.36	97	4356	0.134	ng	97
41) Benzene	8.86	78	25765	0.411	ng	97
42) Carbon Tetrachloride	9.03	117	3503	0.127	ng	96
43) Cyclohexane	9.18	84	3922	0.168	ng	96
49) 2,2,4-Trimethylpentane...	10.20	57	53840	0.702	ng	99
51) n-Heptane	10.52	71	6164	0.394	ng	98
53) 4-Methyl-2-pentanone	11.31	58	2085	0.136	ng	# 64
58) Toluene	12.52	91	238049	3.528	ng	97
62) n-Butyl Acetate	13.76	43	10344	0.219	ng	96
63) n-Octane	13.89	57	2630	0.179	ng	89
64) Tetrachloroethene	13.99	166	41456	1.782	ng	99
66) Ethylbenzene	15.37	91	38996	0.504	ng	100
67) m- & p-Xylenes	15.60	91	105859	1.667	ng	97
69) Styrene	16.07	104	6000	0.150	ng	97
70) o-Xylene	16.21	91	39199	0.626	ng	99
71) n-Nonane	16.57	43	4237	0.107	ng	96
75) alpha-Pinene	17.49	93	23476	0.722	ng	96
78) 4-Ethyltoluene	17.83	105	8858	0.121	ng	99
82) 1,2,4-Trimethylbenzene	18.40	105	21949	0.330	ng	90
91) d-Limonene	19.06	68	17978	0.806	ng	97

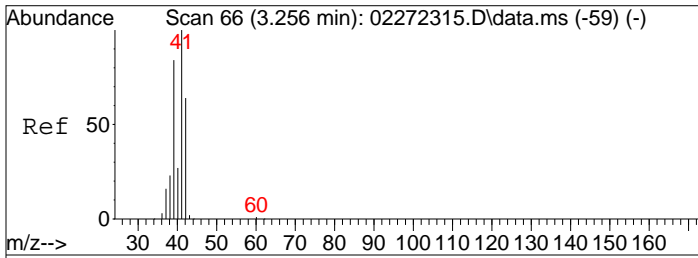
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS09\DATA\2023 03\21\03212322.D
 Acq On : 21 Mar 2023 17:51
 Sample : P2301184-011 (1000ml)
 Misc : S35-02212305

Vial: 14
 Operator: WA/SR
 Inst : MS09

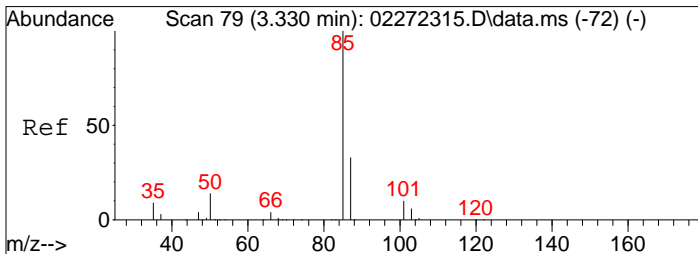
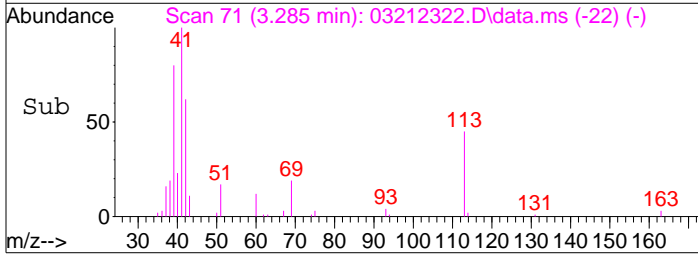
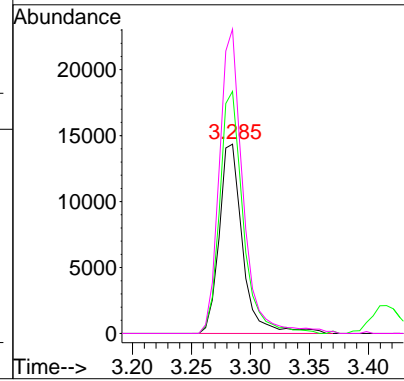
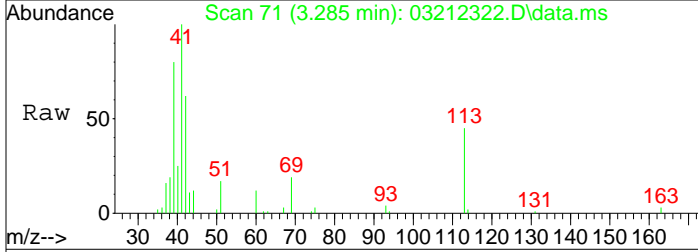
Quant Time: Mar 22 04:56:51 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M





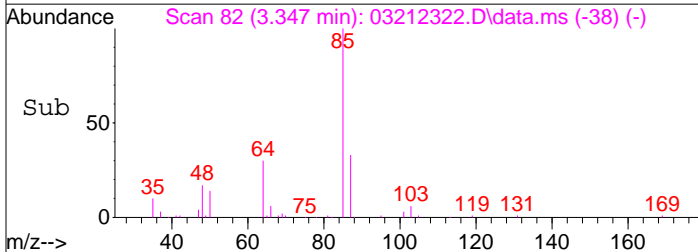
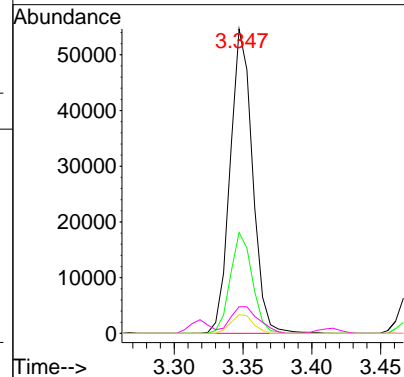
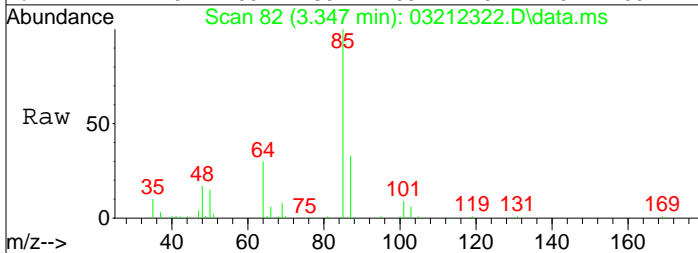
#2
 Propene
 Concen: 0.92 ng
 RT: 3.28 min Scan# 71
 Delta R.T. 0.028 min
 Lab File: 03212322.D
 Acq: 21 Mar 2023 17:51

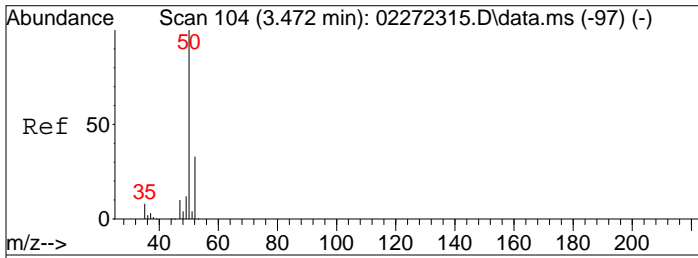
Tgt Ion:	Resp:	Lower	Upper
42	19914		
42	100		
39	128.2	110.0	150.0
41	161.7	135.8	175.8



#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.65 ng
 RT: 3.35 min Scan# 82
 Delta R.T. -0.003 min
 Lab File: 03212322.D
 Acq: 21 Mar 2023 17:51

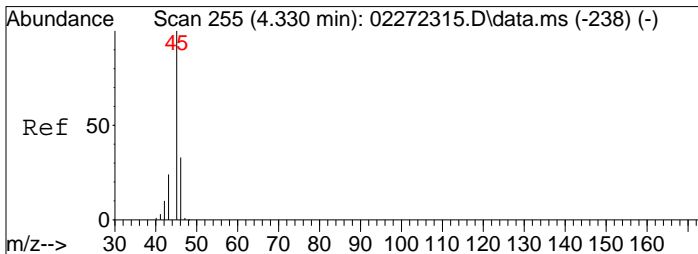
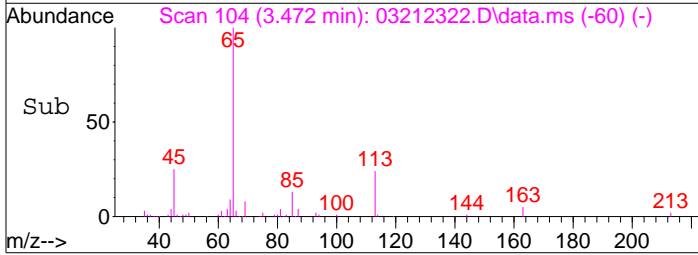
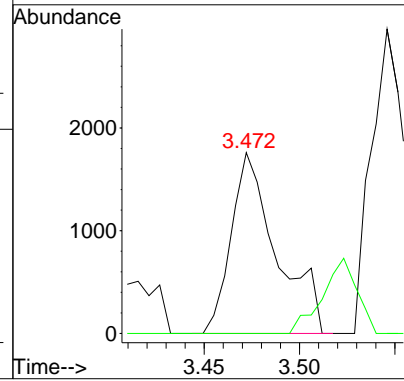
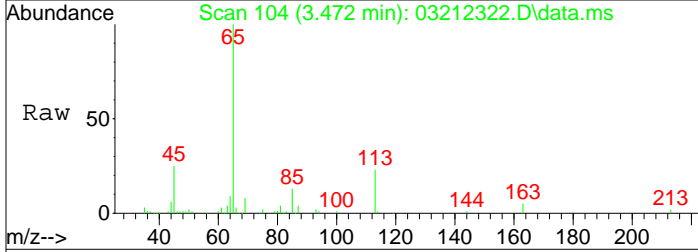
Tgt Ion:	Resp:	Lower	Upper
85	61912		
85	100		
87	32.4	12.3	52.3
101	10.9	0.0	29.7
103	6.1	0.0	26.3





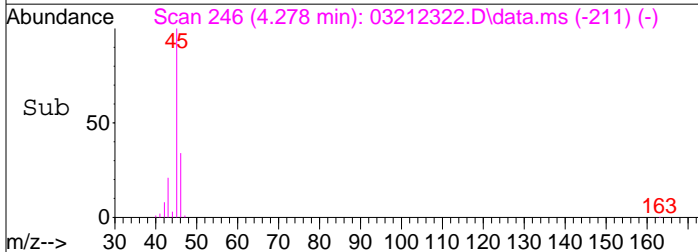
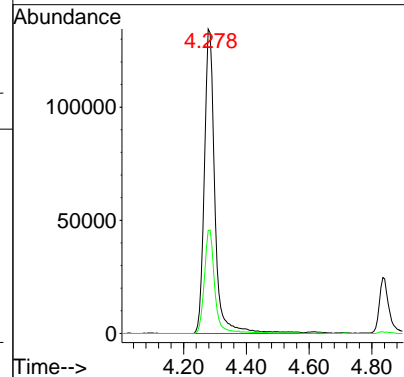
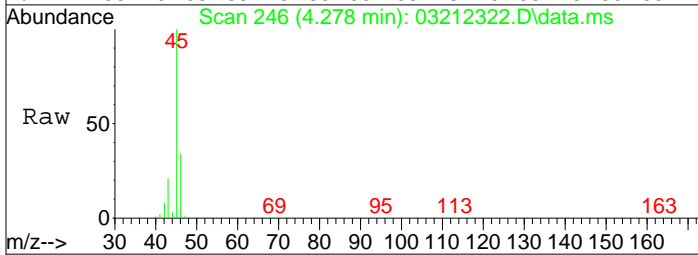
#4
 Chloromethane
 Concen: 0.12 ng
 RT: 3.47 min Scan# 104
 Delta R.T. -0.000 min
 Lab File: 03212322.D
 Acq: 21 Mar 2023 17:51

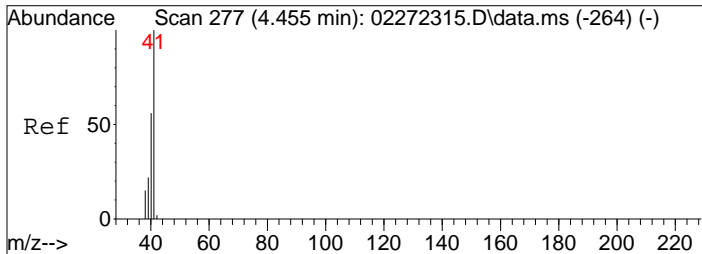
Tgt Ion: 50 Resp: 2907
 Ion Ratio Lower Upper
 50 100
 52 0.0 12.8 52.8#



#10
 Ethanol
 Concen: 20.42 ng
 RT: 4.28 min Scan# 246
 Delta R.T. -0.051 min
 Lab File: 03212322.D
 Acq: 21 Mar 2023 17:51

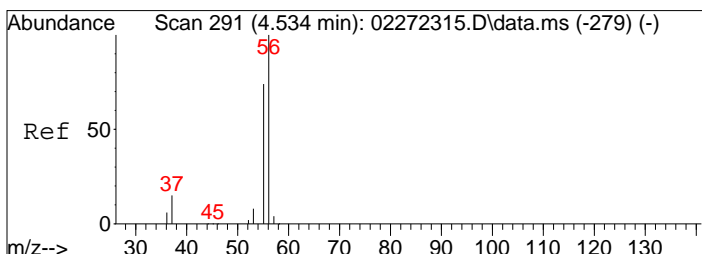
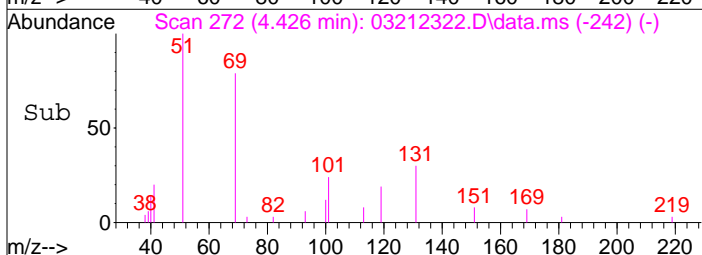
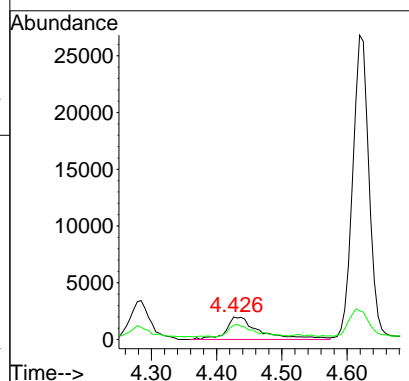
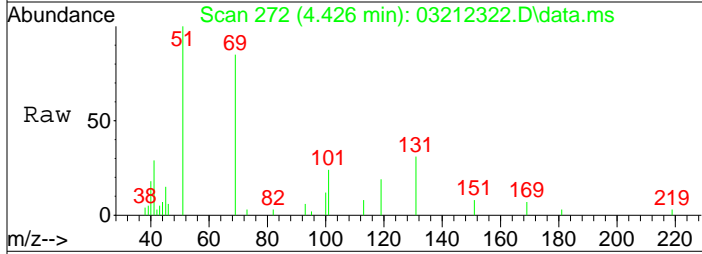
Tgt Ion: 45 Resp: 315327
 Ion Ratio Lower Upper
 45 100
 46 33.9 13.4 53.4





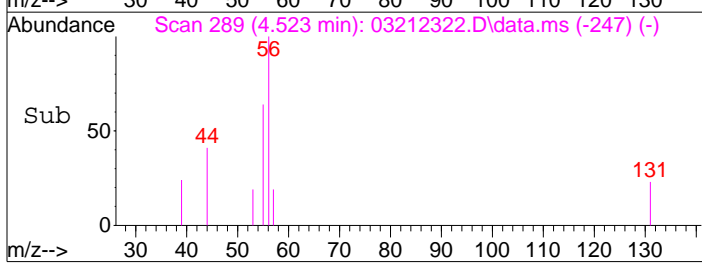
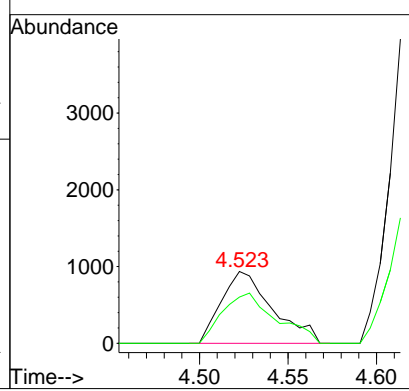
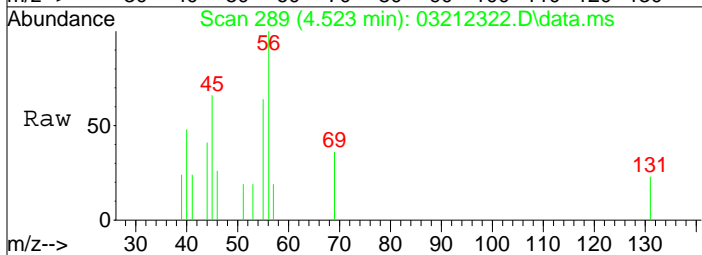
#11
 Acetonitrile
 Concen: 0.18 ng
 RT: 4.43 min Scan# 272
 Delta R.T. -0.029 min
 Lab File: 03212322.D
 Acq: 21 Mar 2023 17:51

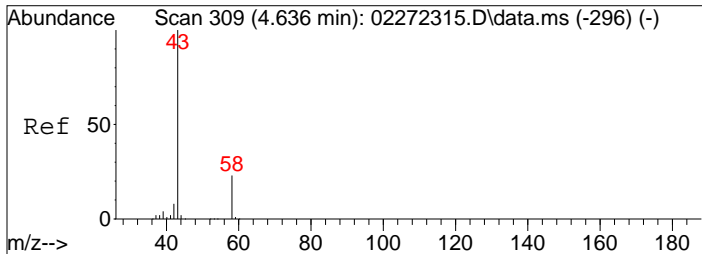
Tgt Ion: 41 Resp: 7150
 Ion Ratio Lower Upper
 41 100
 40 63.3 36.1 76.1



#12
 Acrolein
 Concen: 0.18 ng
 RT: 4.52 min Scan# 289
 Delta R.T. -0.012 min
 Lab File: 03212322.D
 Acq: 21 Mar 2023 17:51

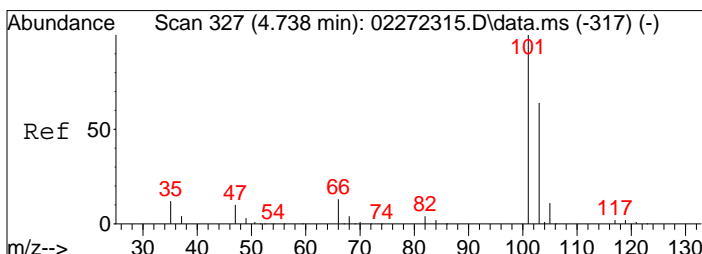
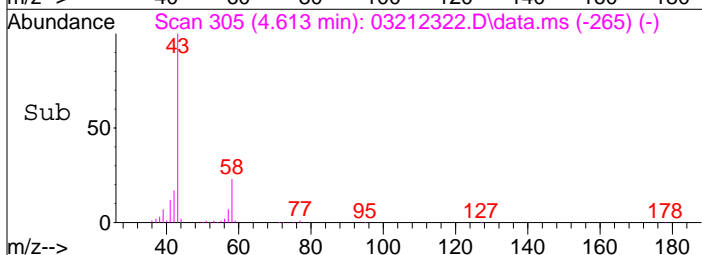
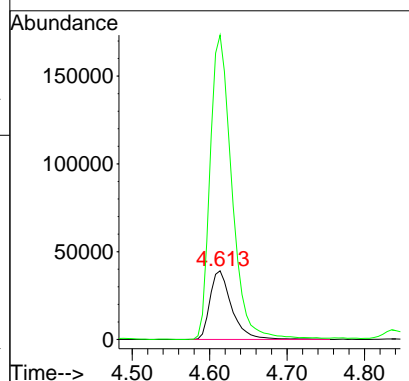
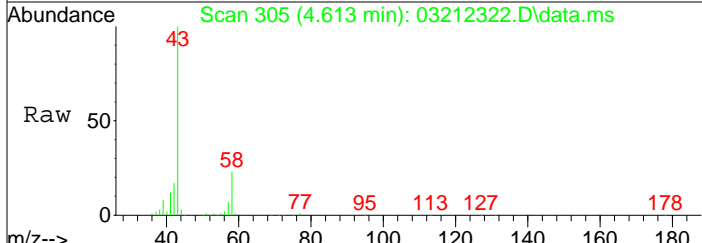
Tgt Ion: 56 Resp: 1878
 Ion Ratio Lower Upper
 56 100
 55 73.5 56.4 96.4





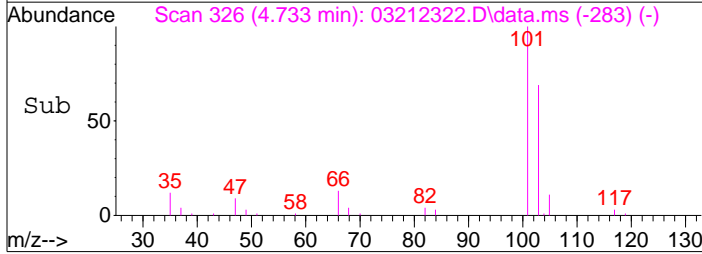
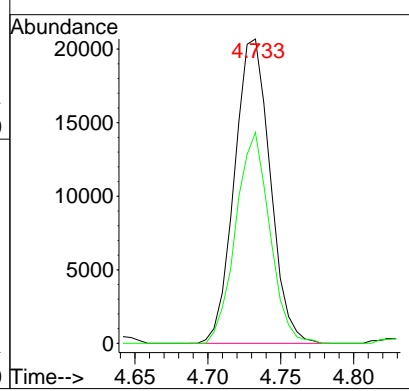
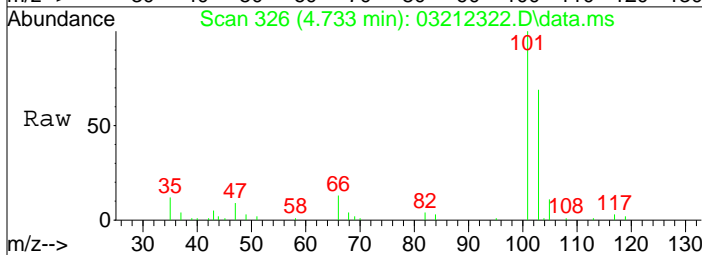
#13
 Acetone
 Concen: 6.55 ng
 RT: 4.61 min Scan# 305
 Delta R.T. -0.023 min
 Lab File: 03212322.D
 Acq: 21 Mar 2023 17:51

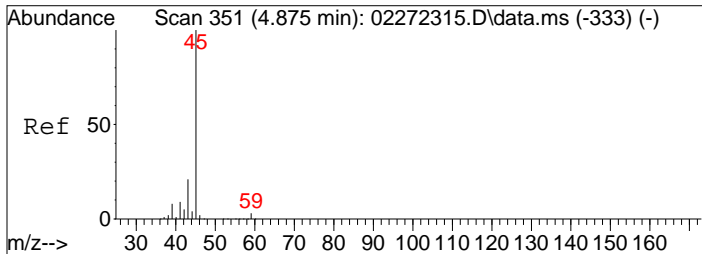
Tgt Ion:	Resp:	Lower	Upper
58	76639		
58	100		
43	446.2	414.4	474.4



#14
 Trichlorofluoromethane
 Concen: 0.94 ng
 RT: 4.73 min Scan# 326
 Delta R.T. -0.006 min
 Lab File: 03212322.D
 Acq: 21 Mar 2023 17:51

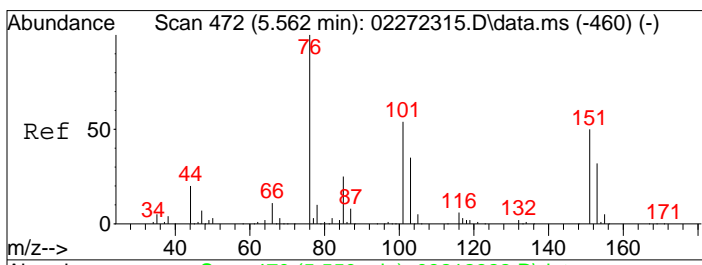
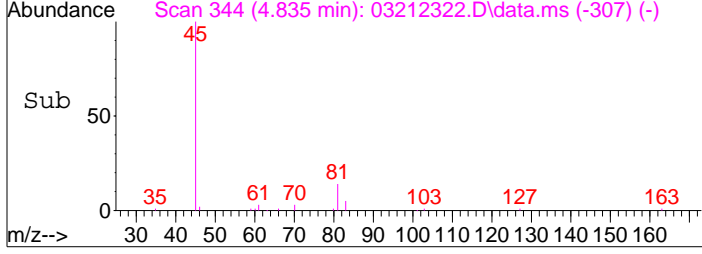
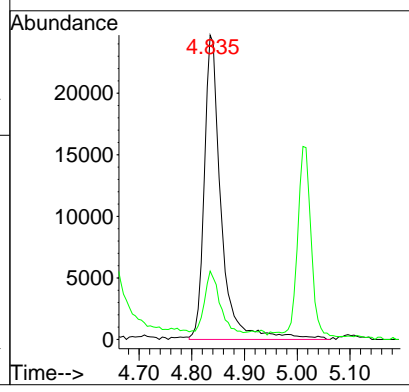
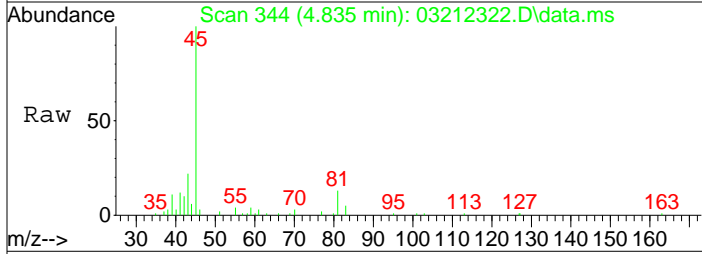
Tgt Ion:	Resp:	Lower	Upper
101	35213		
101	100		
103	65.8	44.0	84.0





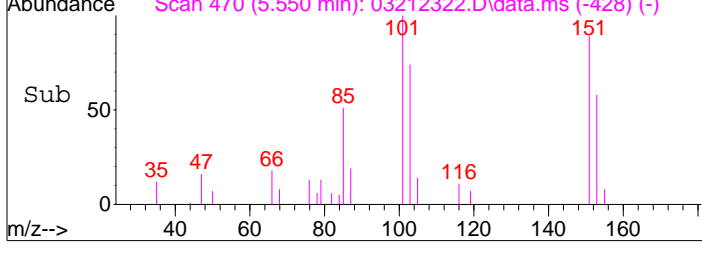
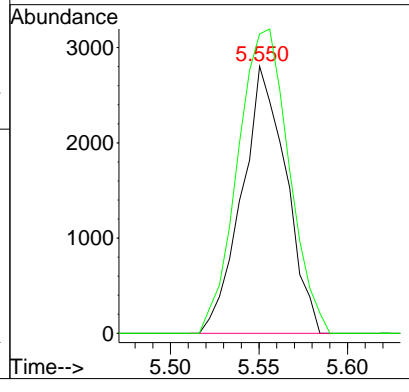
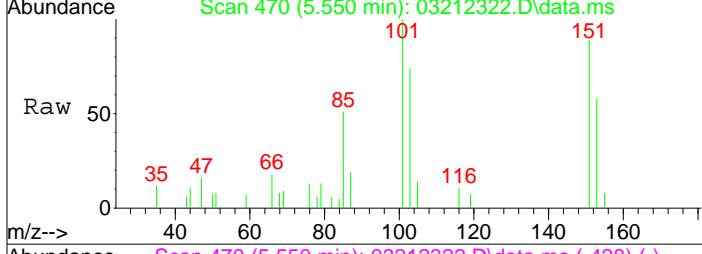
#15
 2-Propanol (Isopropanol)
 Concen: 1.20 ng
 RT: 4.83 min Scan# 344
 Delta R.T. -0.040 min
 Lab File: 03212322.D
 Acq: 21 Mar 2023 17:51

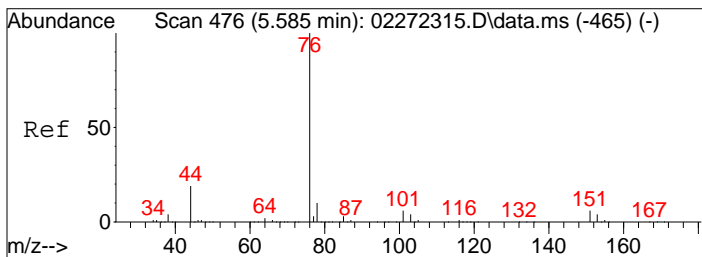
Tgt Ion	Resp	Lower	Upper
45	54944	100	
43	19.7	1.6	41.6



#21
 Trichlorotrifluoroethane
 Concen: 0.29 ng
 RT: 5.55 min Scan# 470
 Delta R.T. -0.012 min
 Lab File: 03212322.D
 Acq: 21 Mar 2023 17:51

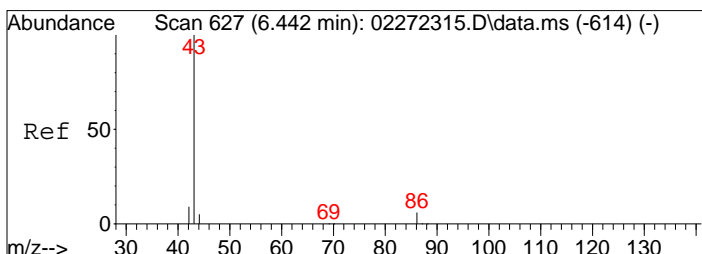
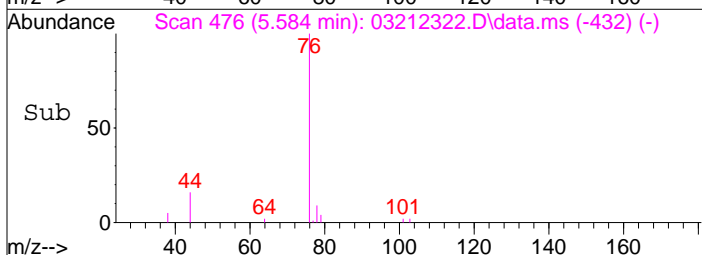
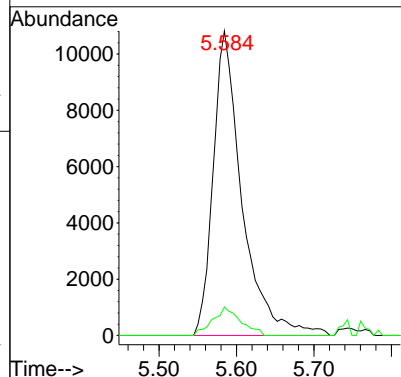
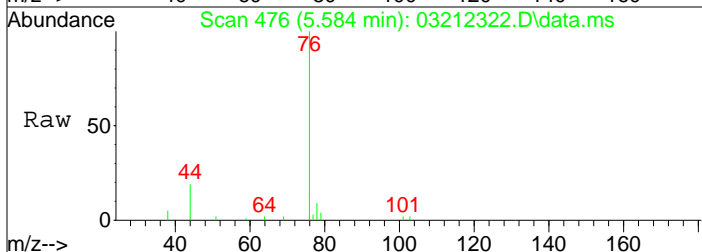
Tgt Ion	Resp	Lower	Upper
151	4876	100	
101	132.1	88.2	128.2#





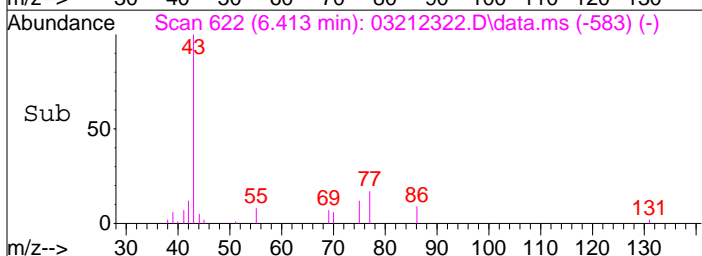
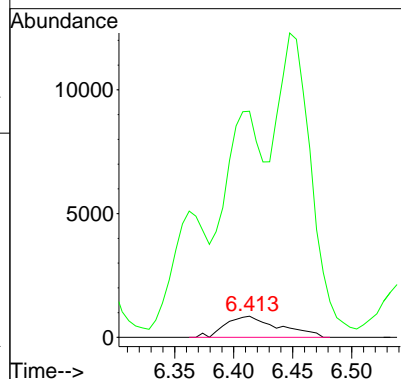
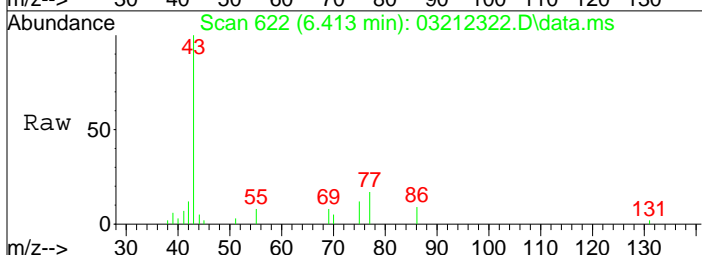
#22
 Carbon Disulfide
 Concen: 0.50 ng
 RT: 5.58 min Scan# 476
 Delta R.T. -0.000 min
 Lab File: 03212322.D
 Acq: 21 Mar 2023 17:51

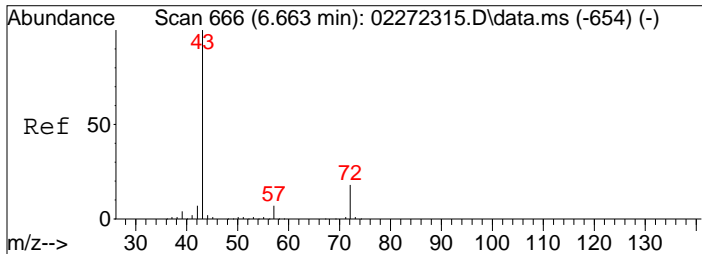
Tgt Ion	Resp	Lower	Upper
76	100		
78	9.0	0.0	29.7



#26
 Vinyl Acetate
 Concen: 1.20 ng
 RT: 6.41 min Scan# 622
 Delta R.T. -0.029 min
 Lab File: 03212322.D
 Acq: 21 Mar 2023 17:51

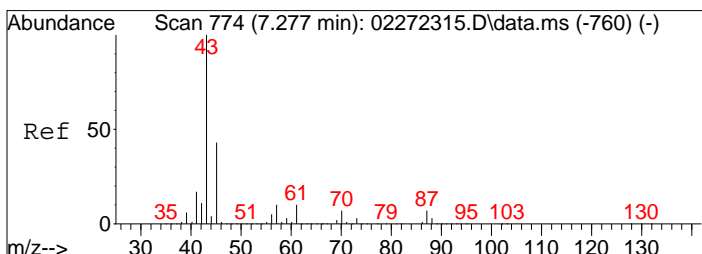
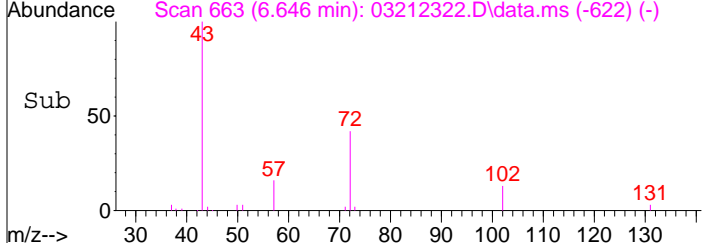
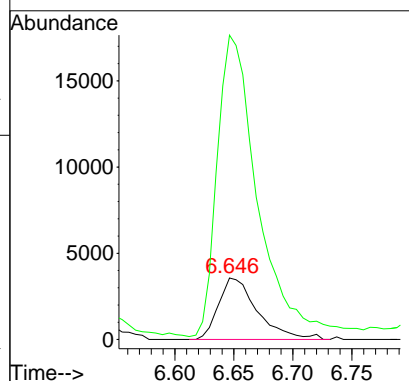
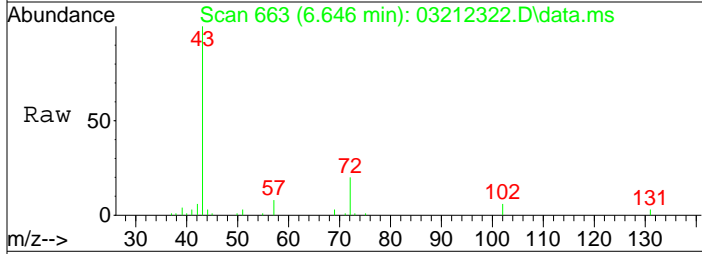
Tgt Ion	Resp	Lower	Upper
86	100		
43	725.8	1713.1	1753.1#





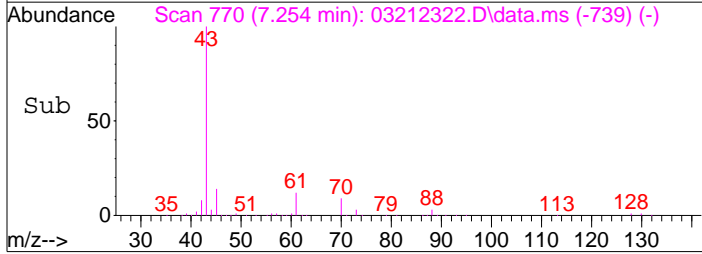
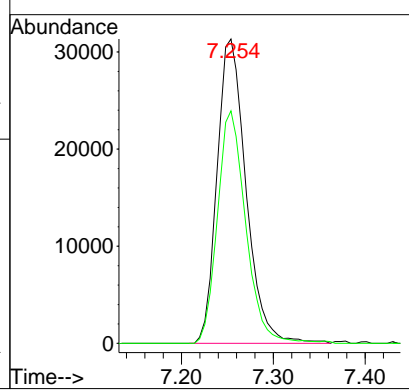
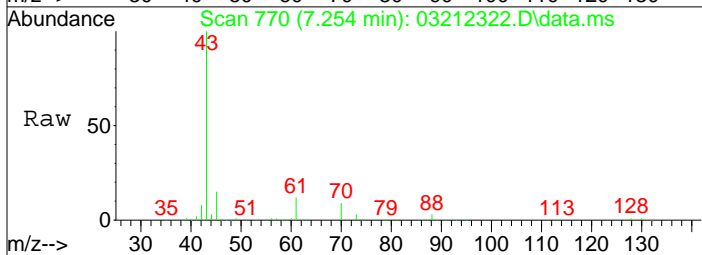
#27
 2-Butanone (MEK)
 Concen: 0.88 ng
 RT: 6.65 min Scan# 663
 Delta R.T. -0.017 min
 Lab File: 03212322.D
 Acq: 21 Mar 2023 17:51

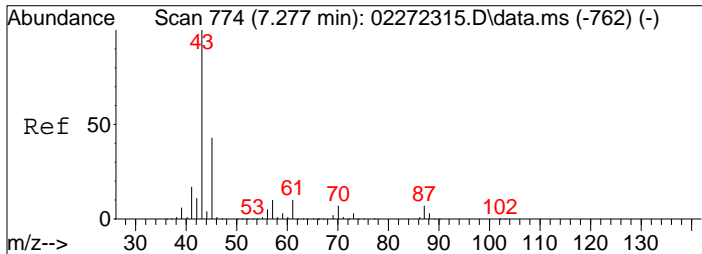
Tgt Ion	Resp	Lower	Upper
72	8201		
72	100		
43	514.5	536.0	576.0#



#30
 Ethyl Acetate
 Concen: 9.60 ng
 RT: 7.25 min Scan# 770
 Delta R.T. -0.023 min
 Lab File: 03212322.D
 Acq: 21 Mar 2023 17:51

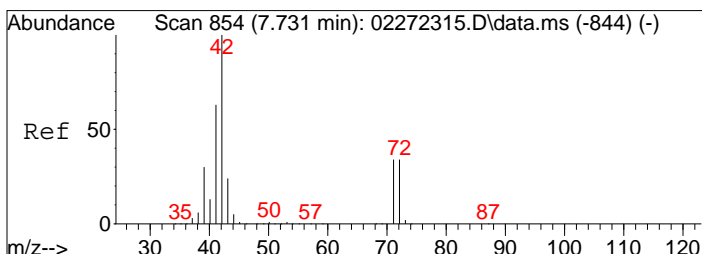
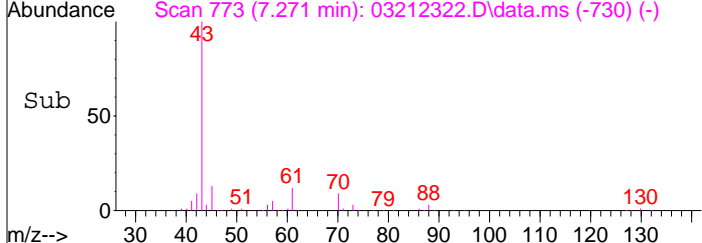
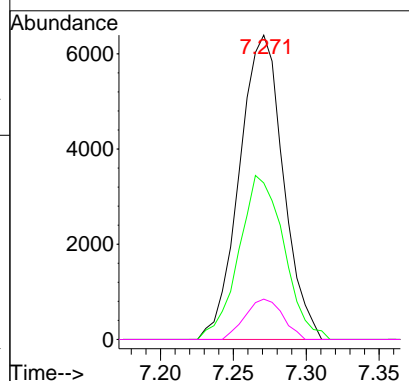
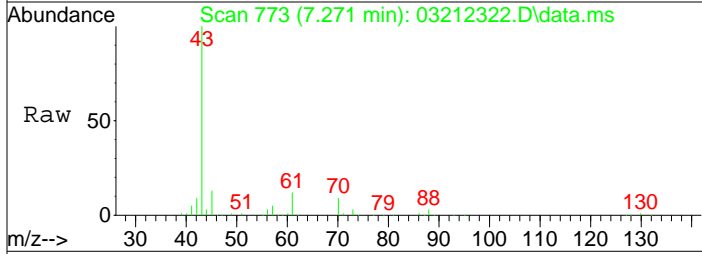
Tgt Ion	Resp	Lower	Upper
61	68871		
61	100		
70	74.6	55.8	95.8





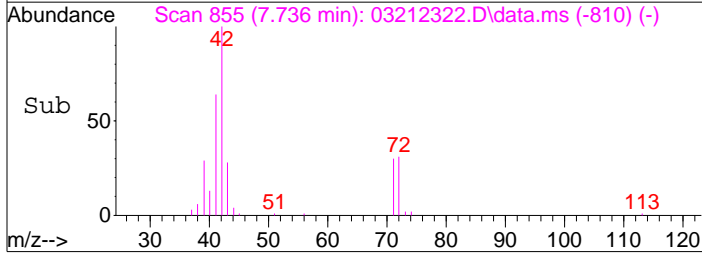
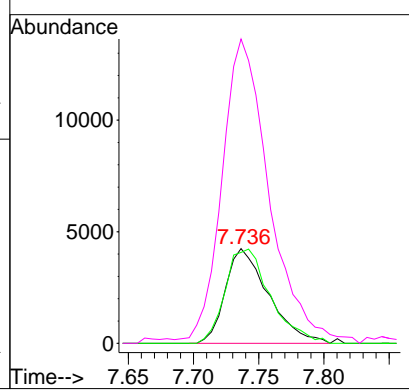
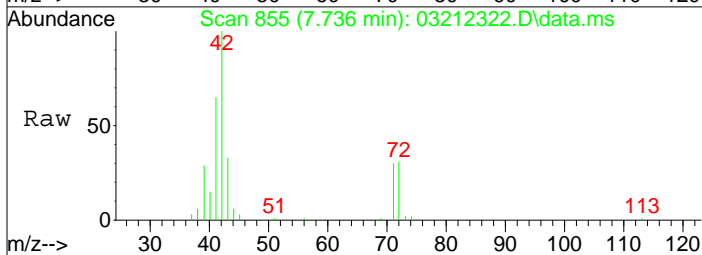
#31
 n-Hexane
 Concen: 0.45 ng
 RT: 7.27 min Scan# 773
 Delta R.T. -0.006 min
 Lab File: 03212322.D
 Acq: 21 Mar 2023 17:51

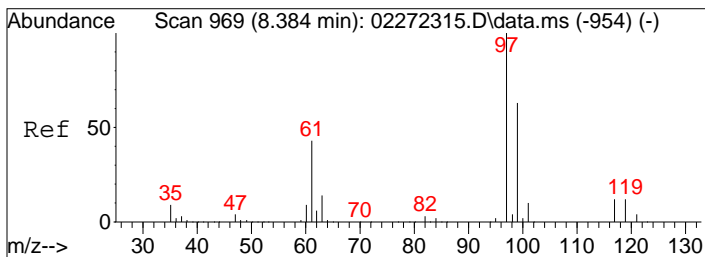
Tgt Ion:	Resp:	Lower	Upper
57	13365		
57	100		
56	55.4	43.3	64.9
86	11.4	10.2	15.2



#34
 Tetrahydrofuran (THF)
 Concen: 1.05 ng
 RT: 7.74 min Scan# 855
 Delta R.T. 0.006 min
 Lab File: 03212322.D
 Acq: 21 Mar 2023 17:51

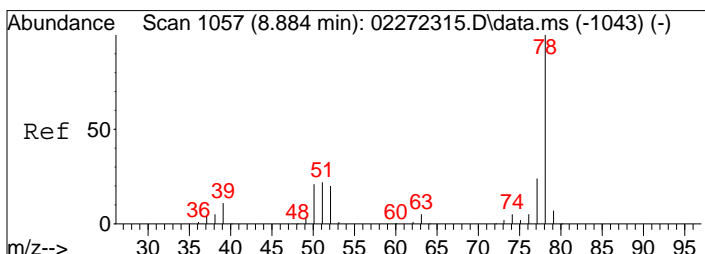
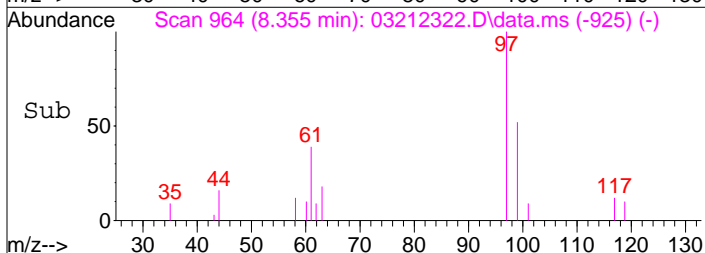
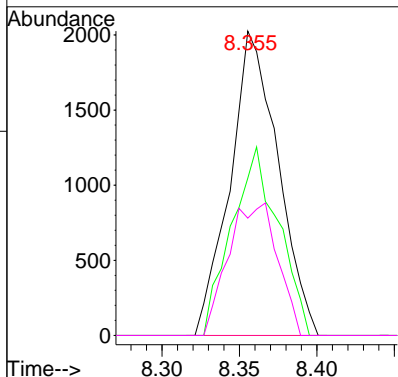
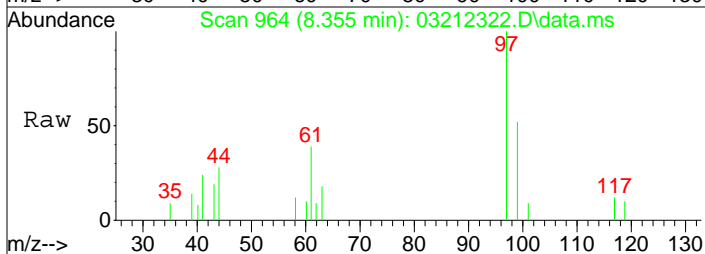
Tgt Ion:	Resp:	Lower	Upper
72	9788		
72	100		
71	104.4	81.3	121.3
42	353.2	293.7	333.7#





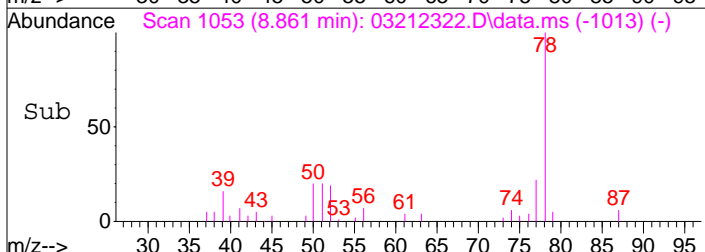
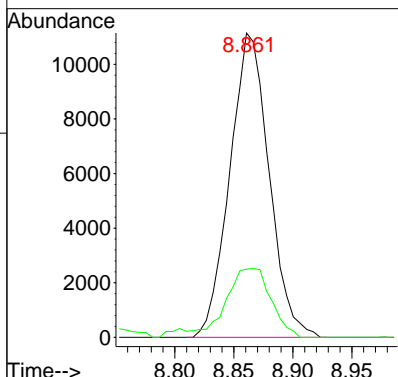
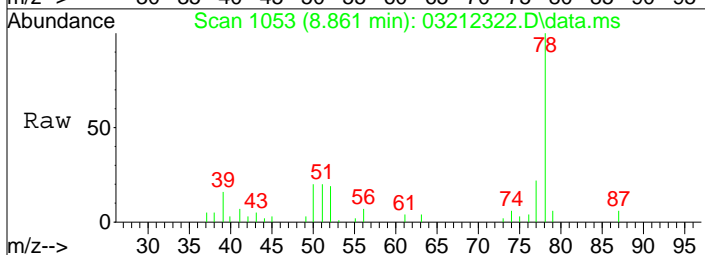
#38
 1,1,1-Trichloroethane
 Concen: 0.13 ng
 RT: 8.36 min Scan# 964
 Delta R.T. -0.029 min
 Lab File: 03212322.D
 Acq: 21 Mar 2023 17:51

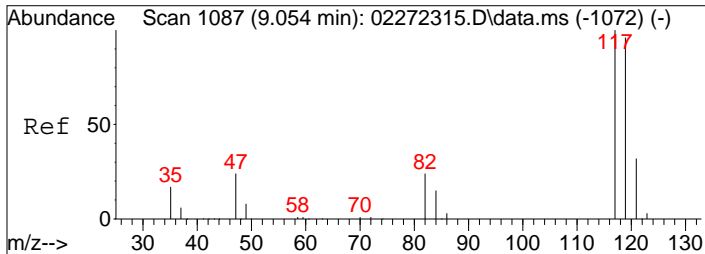
Tgt Ion	Resp	Lower	Upper
97	100		
99	60.4	44.1	84.1
61	44.7	24.0	64.0



#41
 Benzene
 Concen: 0.41 ng
 RT: 8.86 min Scan# 1053
 Delta R.T. -0.023 min
 Lab File: 03212322.D
 Acq: 21 Mar 2023 17:51

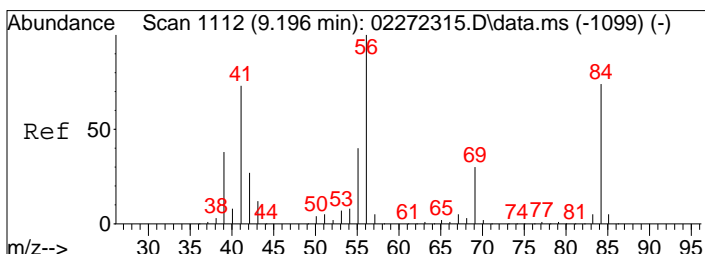
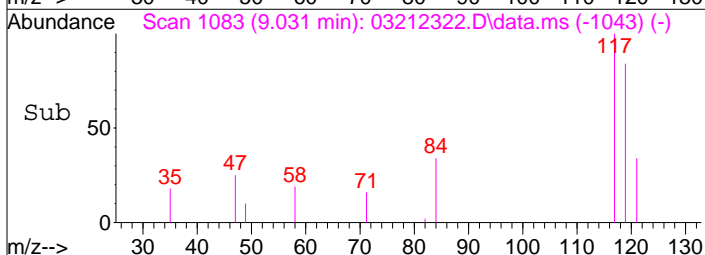
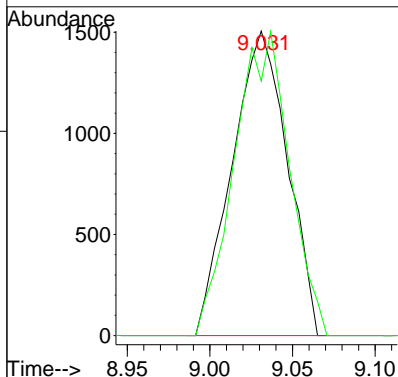
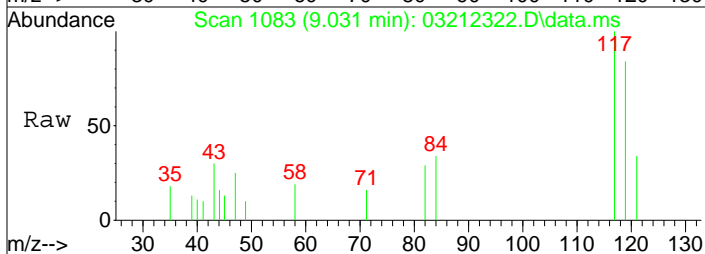
Tgt Ion	Resp	Lower	Upper
78	100		
77	25.6	4.0	44.0





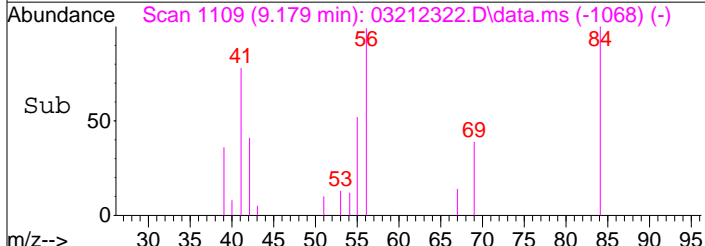
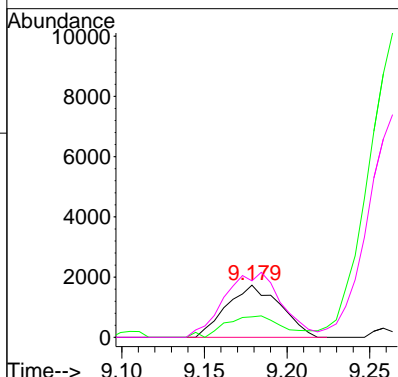
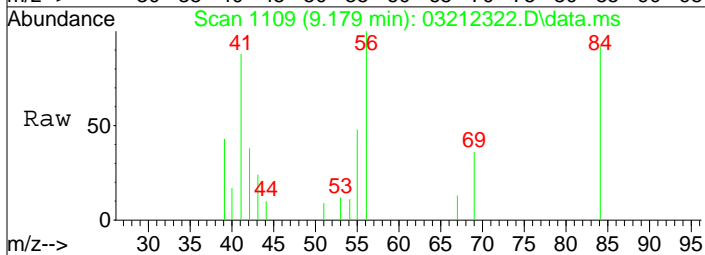
#42
 Carbon Tetrachloride
 Concen: 0.13 ng
 RT: 9.03 min Scan# 1083
 Delta R.T. -0.023 min
 Lab File: 03212322.D
 Acq: 21 Mar 2023 17:51

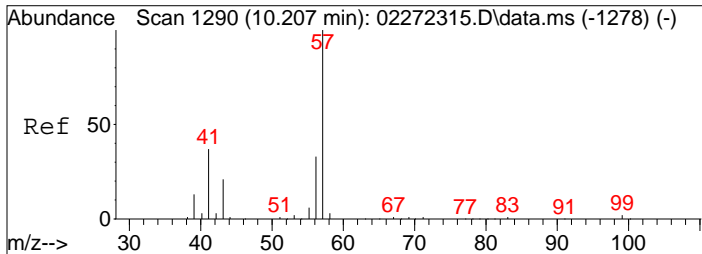
Tgt Ion: 117 Resp: 3503
 Ion Ratio Lower Upper
 117 100
 119 99.2 75.5 115.5



#43
 Cyclohexane
 Concen: 0.17 ng
 RT: 9.18 min Scan# 1109
 Delta R.T. -0.017 min
 Lab File: 03212322.D
 Acq: 21 Mar 2023 17:51

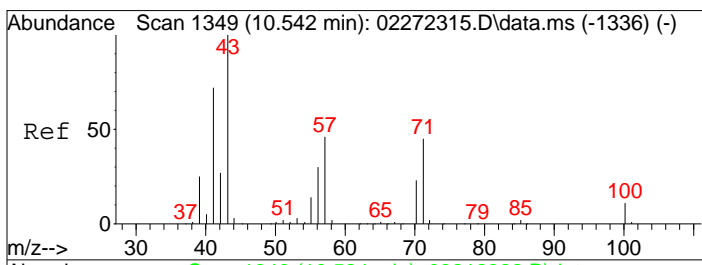
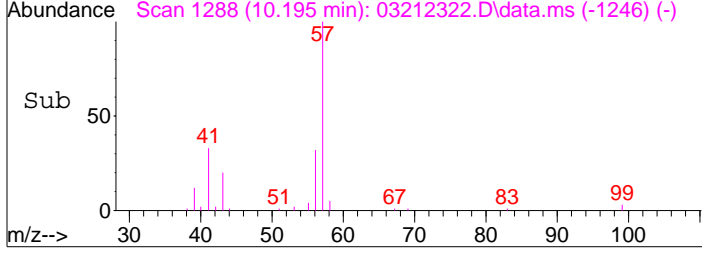
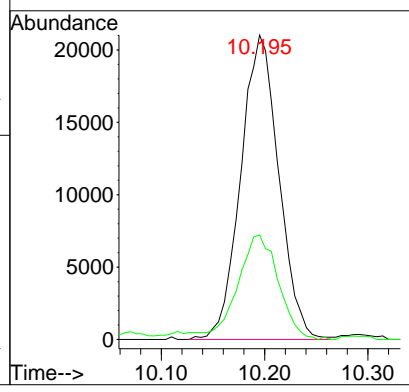
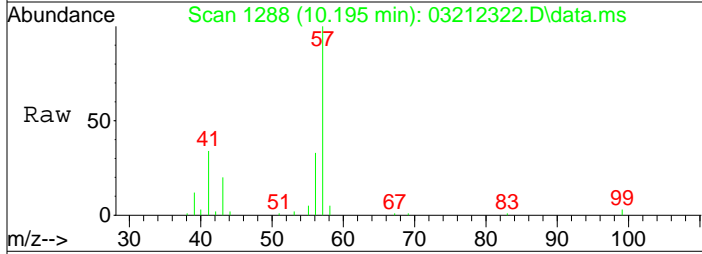
Tgt Ion: 84 Resp: 3922
 Ion Ratio Lower Upper
 84 100
 69 46.4 20.6 60.6
 56 132.5 116.1 156.1





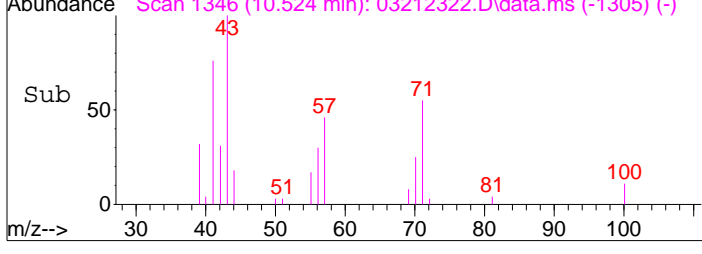
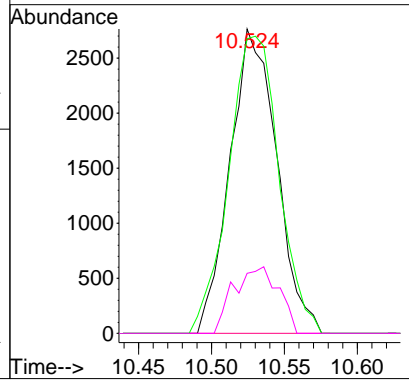
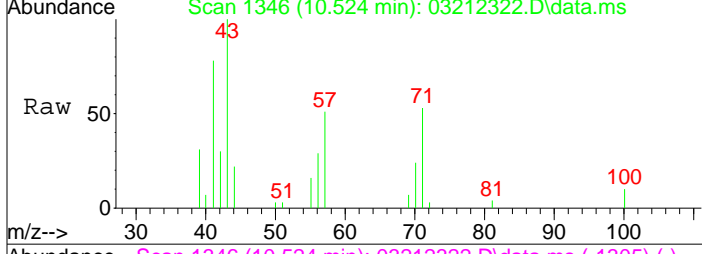
#49
 2,2,4-Trimethylpentane (Isooctane)
 Concen: 0.70 ng
 RT: 10.20 min Scan# 1288
 Delta R.T. -0.011 min
 Lab File: 03212322.D
 Acq: 21 Mar 2023 17:51

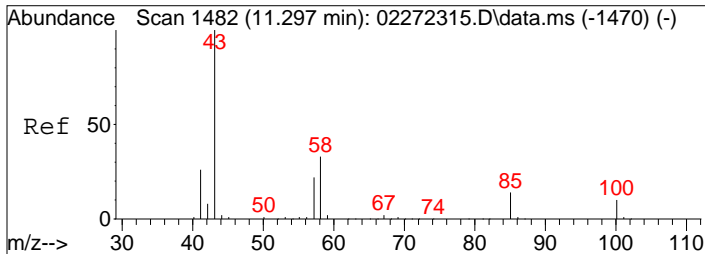
Tgt Ion	Resp	Lower	Upper
57	100		
41	36.6	17.1	57.1



#51
 n-Heptane
 Concen: 0.39 ng
 RT: 10.52 min Scan# 1346
 Delta R.T. -0.017 min
 Lab File: 03212322.D
 Acq: 21 Mar 2023 17:51

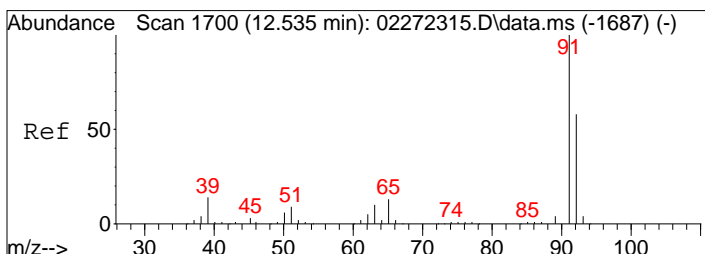
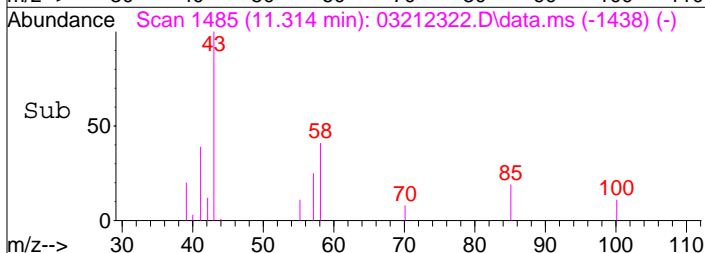
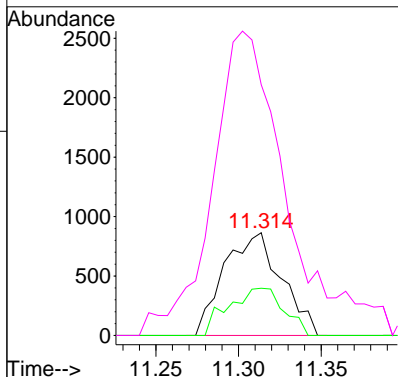
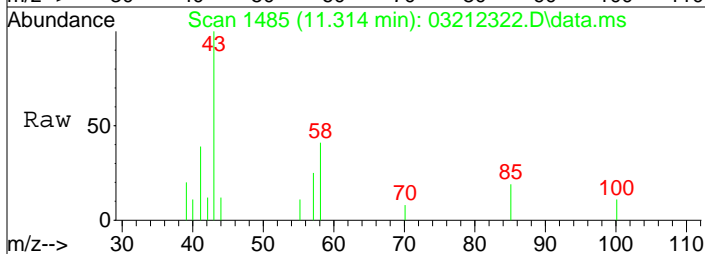
Tgt Ion	Resp	Lower	Upper
71	100		
57	105.0	84.6	124.6
100	21.1	5.8	45.8





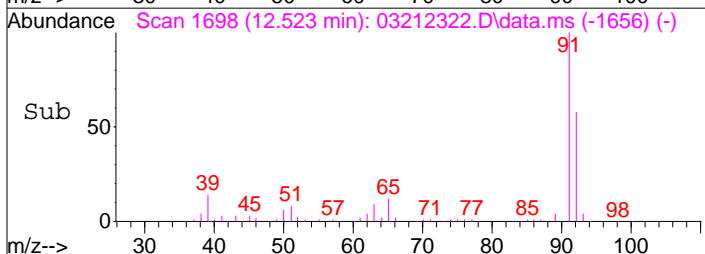
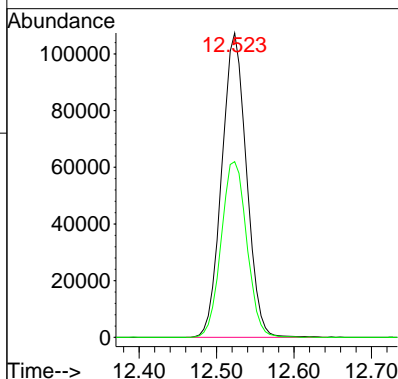
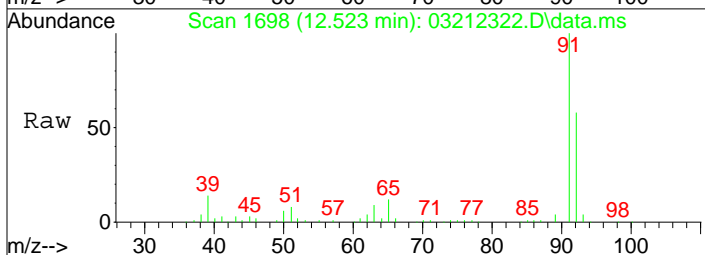
#53
 4-Methyl-2-pentanone
 Concen: 0.14 ng
 RT: 11.31 min Scan# 1485
 Delta R.T. 0.017 min
 Lab File: 03212322.D
 Acq: 21 Mar 2023 17:51

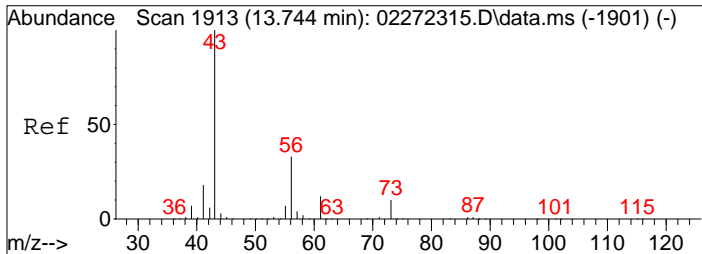
Tgt Ion:	Resp:	Lower	Upper
58	100		
85	44.2	35.7	53.5
43	384.2	242.9	364.3#



#58
 Toluene
 Concen: 3.53 ng
 RT: 12.52 min Scan# 1698
 Delta R.T. -0.012 min
 Lab File: 03212322.D
 Acq: 21 Mar 2023 17:51

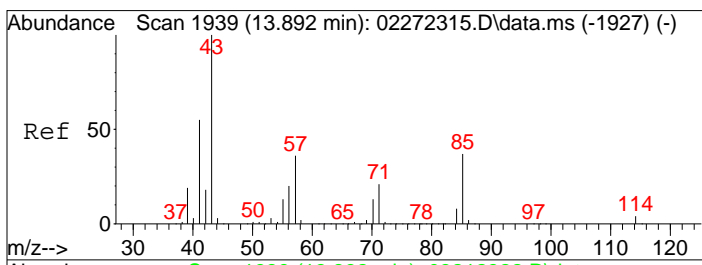
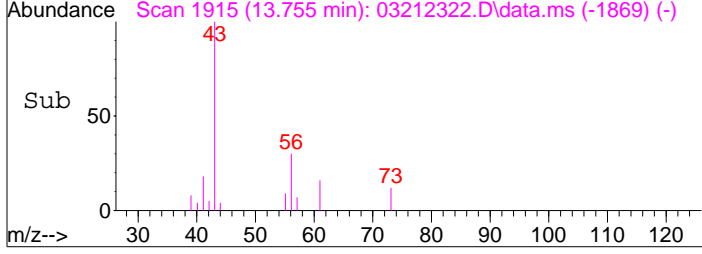
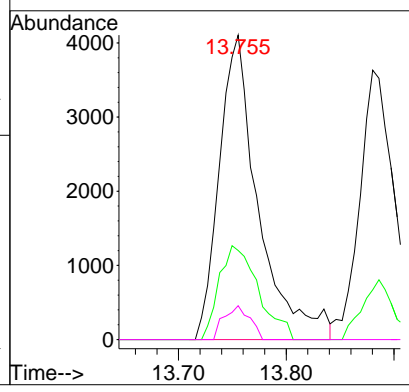
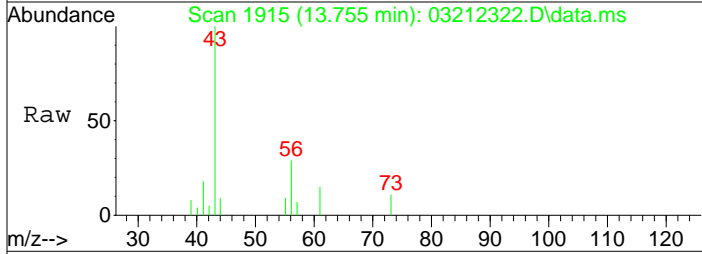
Tgt Ion:	Resp:	Lower	Upper
91	100		
92	59.9	37.6	77.6





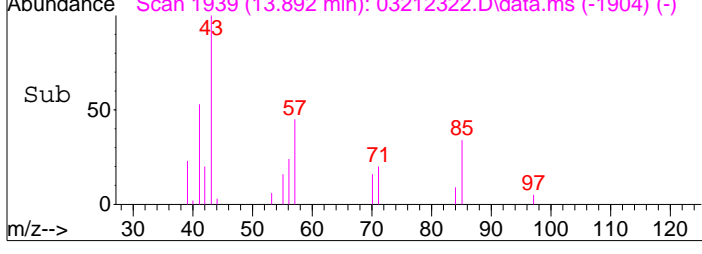
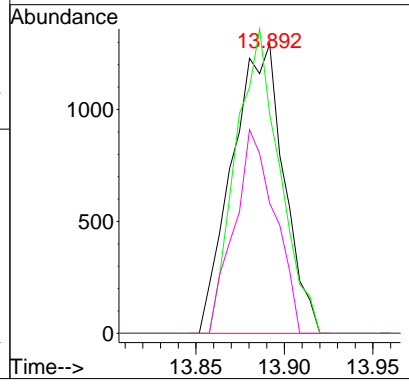
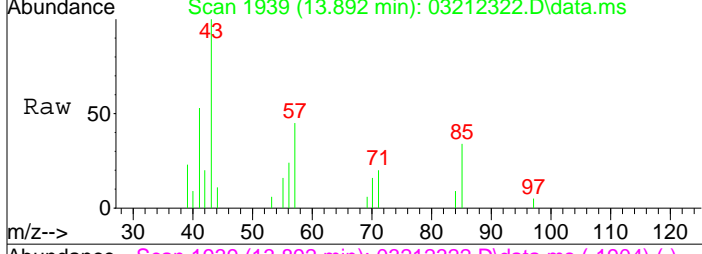
#62
 n-Butyl Acetate
 Concen: 0.22 ng
 RT: 13.76 min Scan# 1915
 Delta R.T. 0.011 min
 Lab File: 03212322.D
 Acq: 21 Mar 2023 17:51

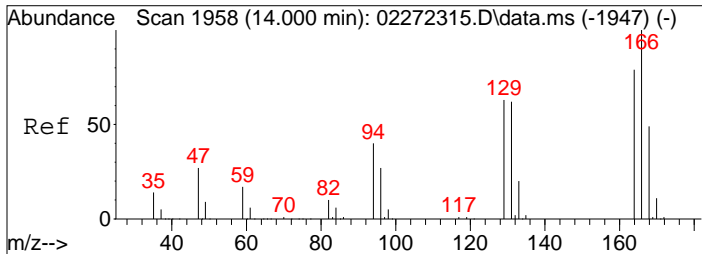
Tgt Ion:	Resp:	Lower	Upper
43	10344		
56	31.0	13.1	53.1
73	7.3	0.0	29.9



#63
 n-Octane
 Concen: 0.18 ng
 RT: 13.89 min Scan# 1939
 Delta R.T. -0.000 min
 Lab File: 03212322.D
 Acq: 21 Mar 2023 17:51

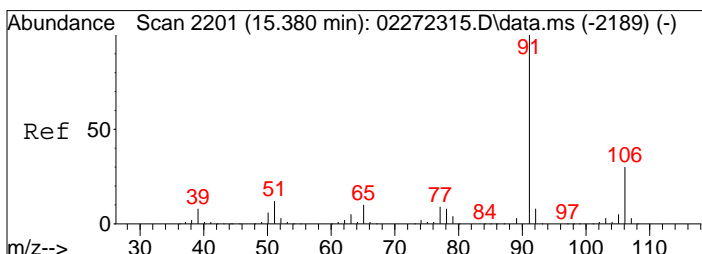
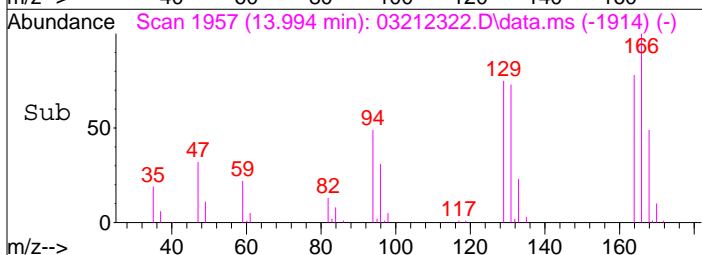
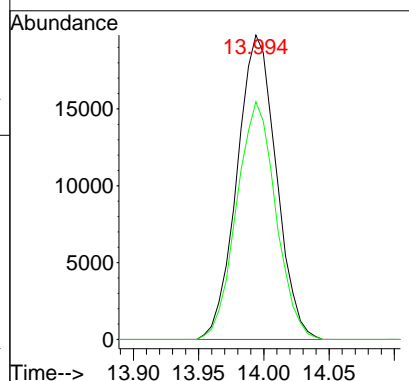
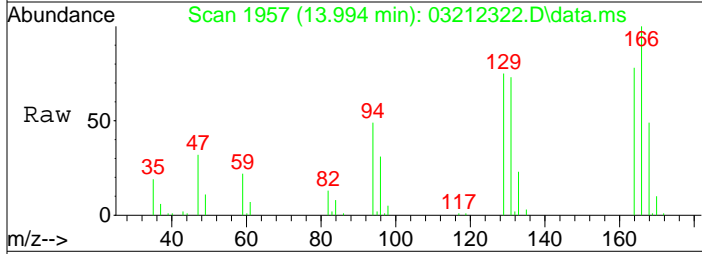
Tgt Ion:	Resp:	Lower	Upper
57	2630		
85	88.9	82.4	123.6
71	55.2	47.8	71.6





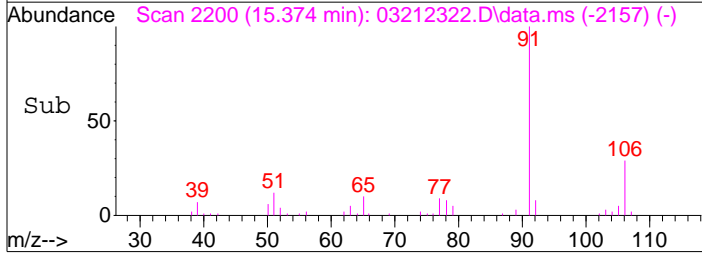
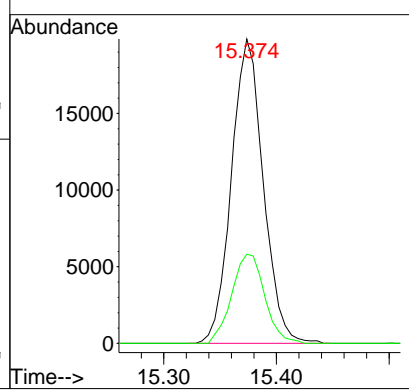
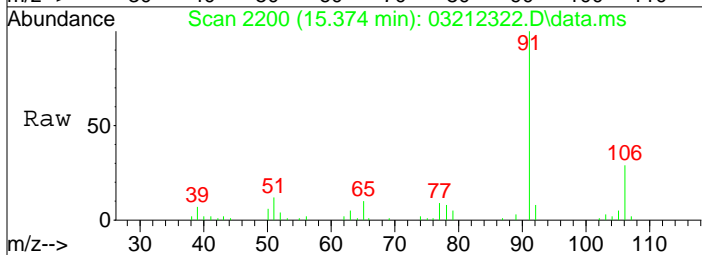
#64
 Tetrachloroethene
 Concen: 1.78 ng
 RT: 13.99 min Scan# 1957
 Delta R.T. -0.006 min
 Lab File: 03212322.D
 Acq: 21 Mar 2023 17:51

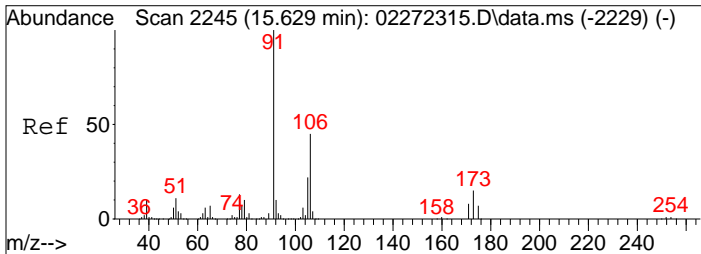
Tgt Ion	Resp	Lower	Upper
166	41456	100	
164	78.0	58.6	98.6



#66
 Ethylbenzene
 Concen: 0.50 ng
 RT: 15.37 min Scan# 2200
 Delta R.T. -0.006 min
 Lab File: 03212322.D
 Acq: 21 Mar 2023 17:51

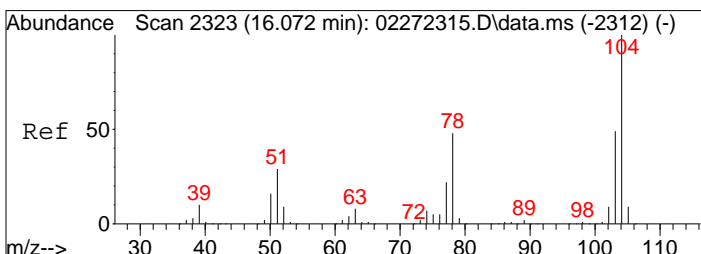
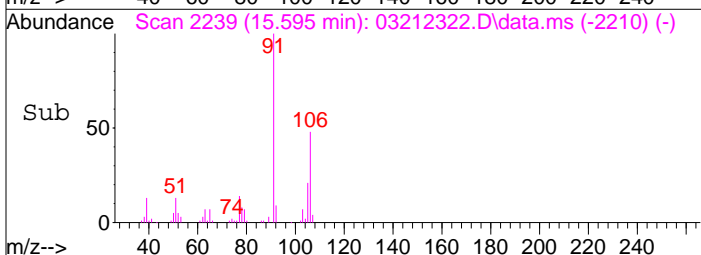
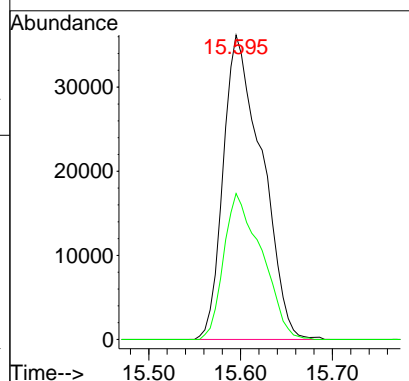
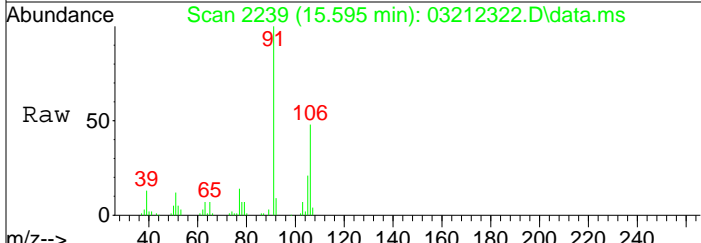
Tgt Ion	Resp	Lower	Upper
91	38996	100	
106	30.3	10.3	50.3





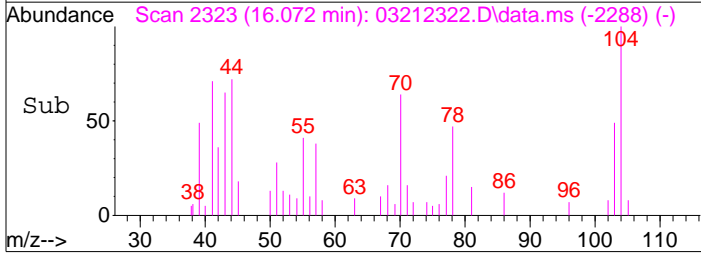
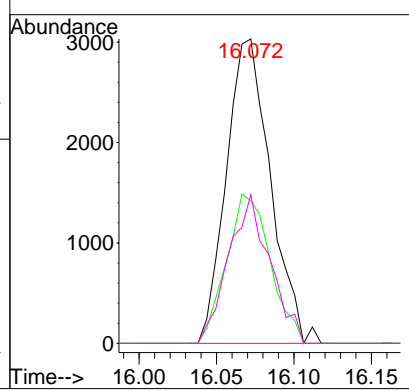
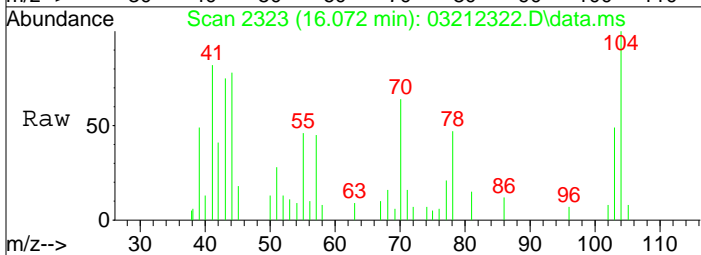
#67
 m- & p-Xylenes
 Concen: 1.67 ng
 RT: 15.60 min Scan# 2239
 Delta R.T. -0.034 min
 Lab File: 03212322.D
 Acq: 21 Mar 2023 17:51

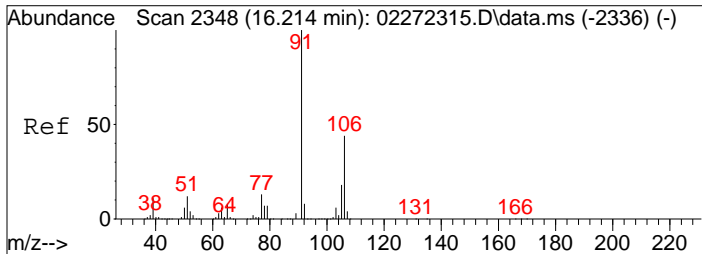
Tgt Ion	Resp	Lower	Upper
91	105859		
106	47.1	25.0	65.0



#69
 Styrene
 Concen: 0.15 ng
 RT: 16.07 min Scan# 2323
 Delta R.T. -0.000 min
 Lab File: 03212322.D
 Acq: 21 Mar 2023 17:51

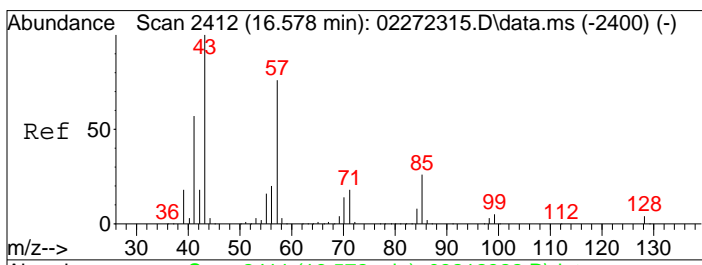
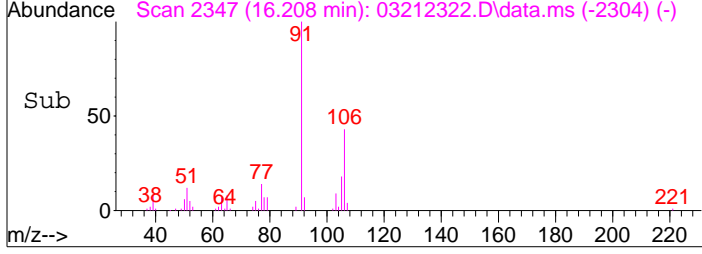
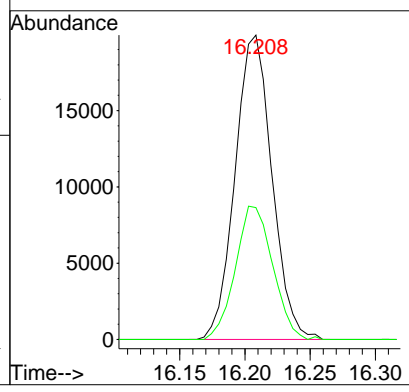
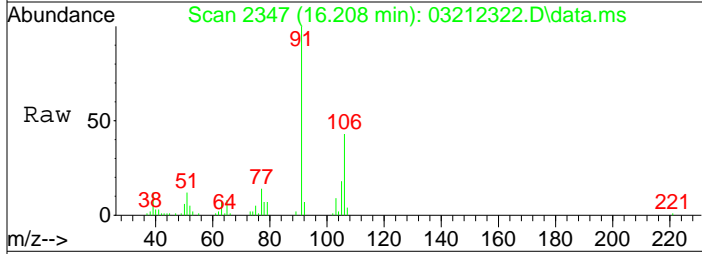
Tgt Ion	Resp	Lower	Upper
104	6000		
78	48.6	29.2	69.2
103	45.7	29.2	69.2





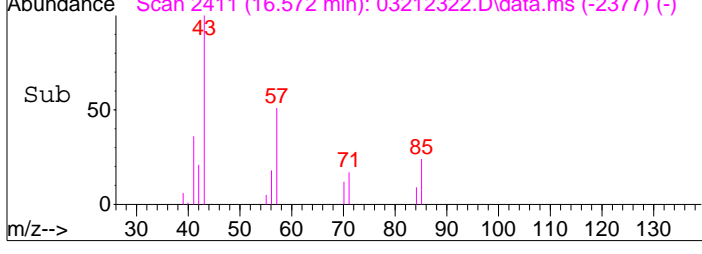
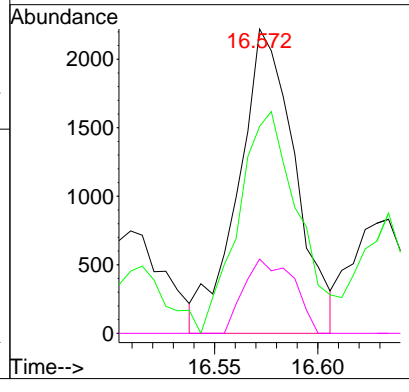
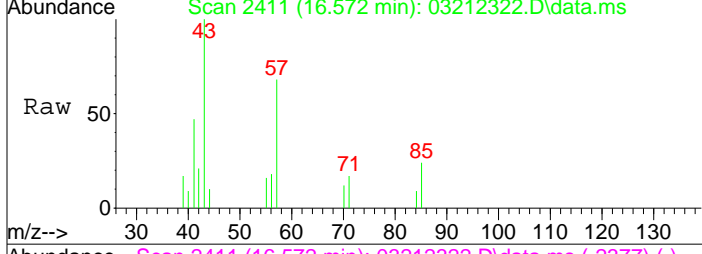
#70
 o-Xylene
 Concen: 0.63 ng
 RT: 16.21 min Scan# 2347
 Delta R.T. -0.006 min
 Lab File: 03212322.D
 Acq: 21 Mar 2023 17:51

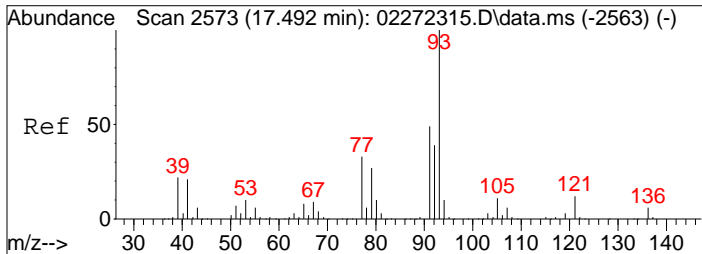
Tgt Ion:	91	106	Resp:	39199
Ion Ratio	100	44.3	Lower	24.0
			Upper	64.0



#71
 n-Nonane
 Concen: 0.11 ng
 RT: 16.57 min Scan# 2411
 Delta R.T. -0.006 min
 Lab File: 03212322.D
 Acq: 21 Mar 2023 17:51

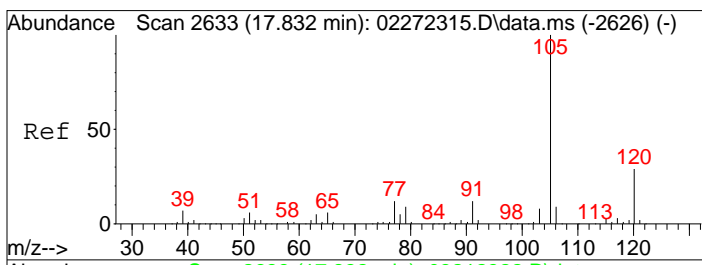
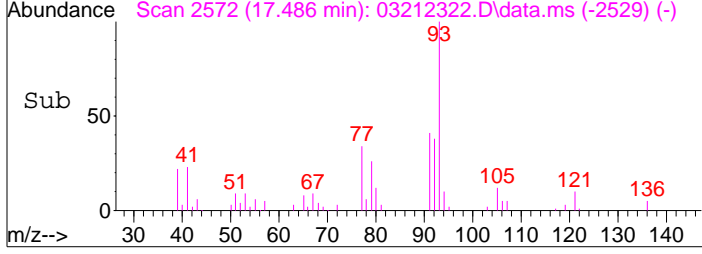
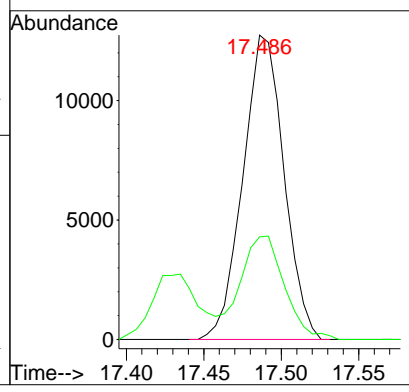
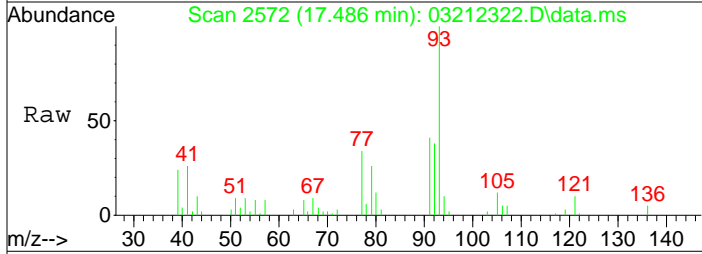
Tgt Ion:	43	57	85	Resp:	4237
Ion Ratio	100	78.1	21.4	Lower	56.2
				Upper	96.2





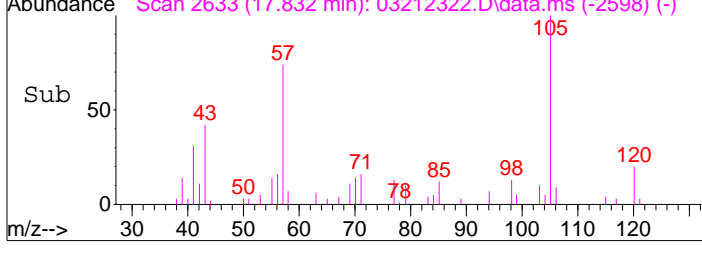
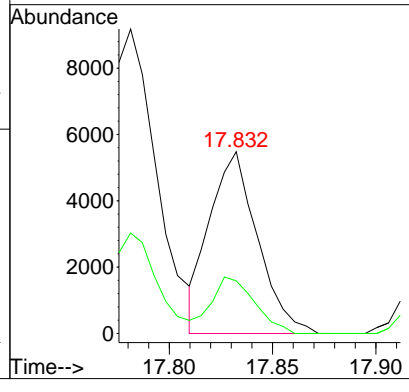
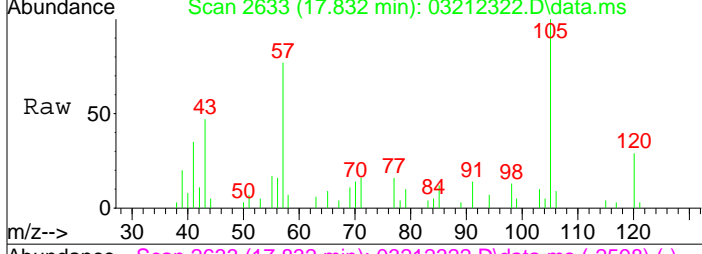
#75
 alpha-Pinene
 Concen: 0.72 ng
 RT: 17.49 min Scan# 2572
 Delta R.T. -0.006 min
 Lab File: 03212322.D
 Acq: 21 Mar 2023 17:51

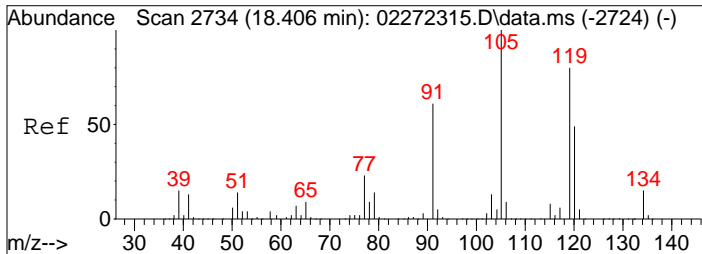
Tgt Ion	Resp	Lower	Upper
93	23476	100	
77	36.7	14.2	54.2



#78
 4-Ethyltoluene
 Concen: 0.12 ng
 RT: 17.83 min Scan# 2633
 Delta R.T. -0.000 min
 Lab File: 03212322.D
 Acq: 21 Mar 2023 17:51

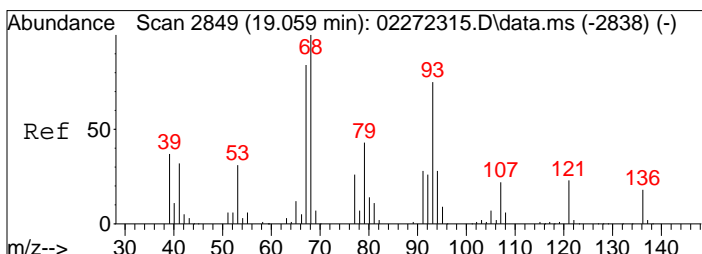
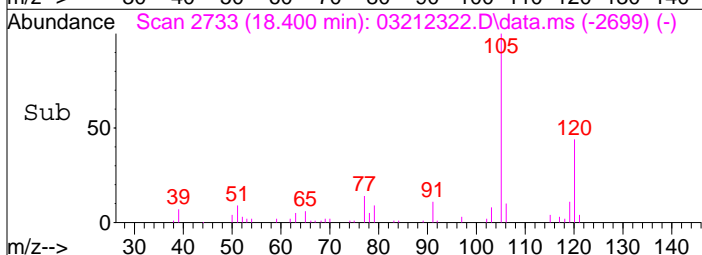
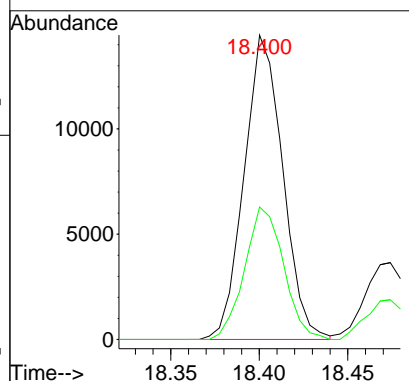
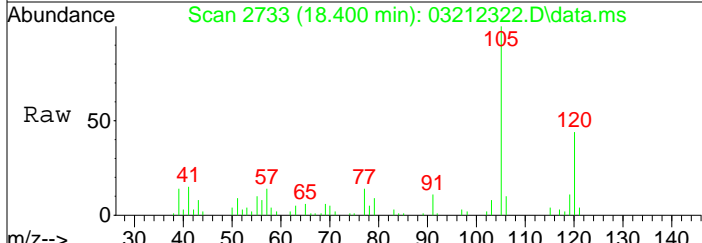
Tgt Ion	Resp	Lower	Upper
105	8858	100	
120	28.1	8.5	48.5





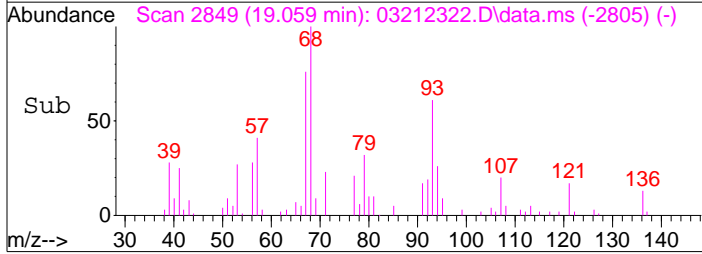
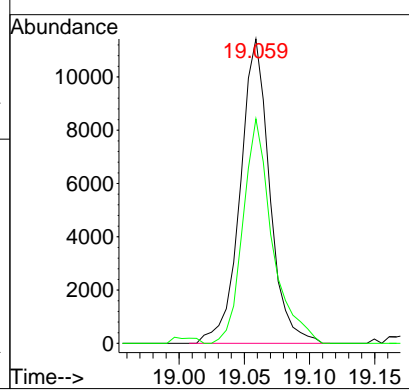
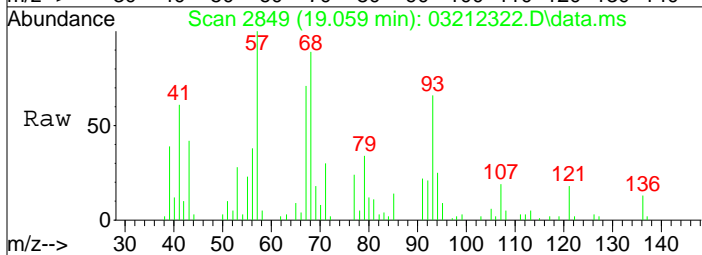
#82
 1,2,4-Trimethylbenzene
 Concen: 0.33 ng
 RT: 18.40 min Scan# 2733
 Delta R.T. -0.006 min
 Lab File: 03212322.D
 Acq: 21 Mar 2023 17:51

Tgt Ion	Resp	Lower	Upper
105	21949	100	100
120	43.9	30.5	70.5



#91
 d-Limonene
 Concen: 0.81 ng
 RT: 19.06 min Scan# 2849
 Delta R.T. -0.000 min
 Lab File: 03212322.D
 Acq: 21 Mar 2023 17:51

Tgt Ion	Resp	Lower	Upper
68	17978	100	100
93	73.1	55.7	95.7



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: New York State DEC
Client Sample ID: Building-4-IA2-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-012

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01079

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.03 Final Pressure (psig): 3.58

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	2.5	0.66	1.5	0.38	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.0	0.66	0.41	0.13	
74-87-3	Chloromethane	0.43	0.26	0.21	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.64	ND	0.092	
75-01-4	Vinyl Chloride	ND	0.14	ND	0.053	
106-99-0	1,3-Butadiene	ND	0.26	ND	0.12	
74-83-9	Bromomethane	ND	0.26	ND	0.067	
75-00-3	Chloroethane	ND	0.26	ND	0.099	
64-17-5	Ethanol	63	6.2	33	3.3	
75-05-8	Acetonitrile	ND	1.2	ND	0.74	
107-02-8	Acrolein	ND	1.2	ND	0.54	
67-64-1	Acetone	42	6.5	18	2.8	
75-69-4	Trichlorofluoromethane (CFC 11)	0.94	0.64	0.17	0.11	
67-63-0	2-Propanol (Isopropyl Alcohol)	8.5	1.3	3.5	0.52	
107-13-1	Acrylonitrile	ND	1.2	ND	0.57	
75-35-4	1,1-Dichloroethene	ND	0.14	ND	0.034	
75-09-2	Methylene Chloride	3.6	0.66	1.0	0.19	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.66	ND	0.21	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.67	ND	0.087	
75-15-0	Carbon Disulfide	ND	1.3	ND	0.43	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	ND	0.034	
75-34-3	1,1-Dichloroethane	ND	0.14	ND	0.034	
1634-04-4	Methyl tert-Butyl Ether	ND	0.67	ND	0.19	
108-05-4	Vinyl Acetate	ND	6.2	ND	1.8	
78-93-3	2-Butanone (MEK)	6.1	1.3	2.1	0.44	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3

Client: New York State DEC
Client Sample ID: Building-4-IA2-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-012

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01079

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.03 Final Pressure (psig): 3.58

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.14	ND	0.034	
141-78-6	Ethyl Acetate	69	2.6	19	0.72	
110-54-3	n-Hexane	4.6	0.66	1.3	0.19	
67-66-3	Chloroform	0.40	0.14	0.081	0.028	
109-99-9	Tetrahydrofuran (THF)	7.5	0.62	2.5	0.21	
107-06-2	1,2-Dichloroethane	0.97	0.14	0.24	0.034	
71-55-6	1,1,1-Trichloroethane	ND	0.14	ND	0.025	
71-43-2	Benzene	2.8	0.14	0.87	0.043	
56-23-5	Carbon Tetrachloride	0.32	0.14	0.051	0.022	
110-82-7	Cyclohexane	3.4	1.3	0.98	0.38	
78-87-5	1,2-Dichloropropane	2.7	0.14	0.59	0.030	
75-27-4	Bromodichloromethane	ND	0.14	ND	0.020	
79-01-6	Trichloroethene	ND	0.14	ND	0.025	
123-91-1	1,4-Dioxane	ND	0.66	ND	0.18	
80-62-6	Methyl Methacrylate	ND	1.4	ND	0.33	
142-82-5	n-Heptane	2.5	0.66	0.62	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.67	ND	0.15	
108-10-1	4-Methyl-2-pentanone	ND	1.4	ND	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	0.63	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.14	ND	0.025	
108-88-3	Toluene	62	0.66	16	0.17	
591-78-6	2-Hexanone	ND	1.4	ND	0.33	
124-48-1	Dibromochloromethane	ND	0.14	ND	0.016	
106-93-4	1,2-Dibromoethane	ND	0.14	ND	0.018	
123-86-4	n-Butyl Acetate	1.5	1.2	0.31	0.26	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3 of 3

Client: New York State DEC
Client Sample ID: Building-4-IA2-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-012

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01079

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.03 Final Pressure (psig): 3.58

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	0.84	0.67	0.18	0.14	
127-18-4	Tetrachloroethene	0.98	0.14	0.14	0.020	
108-90-7	Chlorobenzene	ND	0.66	ND	0.14	
100-41-4	Ethylbenzene	5.5	0.66	1.3	0.15	
179601-23-1	m,p-Xylenes	15	1.4	3.4	0.31	
75-25-2	Bromoform	ND	0.67	ND	0.065	
100-42-5	Styrene	1.8	0.66	0.43	0.15	
95-47-6	o-Xylene	5.7	0.66	1.3	0.15	
111-84-2	n-Nonane	ND	0.66	ND	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	ND	0.020	
98-82-8	Cumene	ND	0.67	ND	0.14	
80-56-8	alpha-Pinene	16	1.4	2.9	0.24	
103-65-1	n-Propylbenzene	ND	0.67	ND	0.14	
622-96-8	4-Ethyltoluene	ND	0.68	ND	0.14	
108-67-8	1,3,5-Trimethylbenzene	ND	0.66	ND	0.13	
95-63-6	1,2,4-Trimethylbenzene	1.7	0.66	0.36	0.13	
100-44-7	Benzyl Chloride	ND	2.6	ND	0.51	
541-73-1	1,3-Dichlorobenzene	ND	0.66	ND	0.11	
106-46-7	1,4-Dichlorobenzene	ND	0.66	ND	0.11	
95-50-1	1,2-Dichlorobenzene	ND	0.67	ND	0.11	
5989-27-5	d-Limonene	10	1.4	1.9	0.24	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.4	ND	0.14	
120-82-1	1,2,4-Trichlorobenzene	ND	1.4	ND	0.18	
91-20-3	Naphthalene	ND	0.68	ND	0.13	
87-68-3	Hexachlorobutadiene	ND	0.66	ND	0.062	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Data File : I:\MS09\DATA\2023 03\21\03212323.D
 Acq On : 21 Mar 2023 18:23
 Sample : P2301184-012 (1000ml)
 Misc : S35-02212305

Vial: 15
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 22 05:01:23 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

WA 3/22/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	7.21	130	169089	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	9.28	114	755829	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.81	54	172103	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.98	65	361075	12.613	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	100.88%	
57) Toluene-d8 (SS2)	12.40	98	899719	13.758	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	110.08%	
73) Bromofluorobenzene (SS3)	16.79	174	276110	10.354	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	82.80%	

Target Compounds

						Qvalue
2) Propene	3.26	42	45889m	2.040	ng	
3) Dichlorodifluoromethan...	3.34	85	63505	1.627	ng	99
4) Chloromethane	3.47	50	8436	0.344	ng	94
5) 1,2-Dichloro-1,1,2,2-t...	3.58	135	1199	N.D.		
6) Vinyl Chloride	3.67	62	183	N.D.		
7) 1,3-Butadiene	3.78	54	272	N.D.		
8) Bromomethane	3.99	94	429	N.D.		
9) Chloroethane	4.14	64	171	N.D.		
10) Ethanol	4.30	45	815270	50.809	ng	99
11) Acetonitrile	0.00	41	0	N.D.	d	
12) Acrolein	4.51	56	5245	0.490	ng	89
13) Acetone	4.60	58	408214	33.572	ng	# 1
14) Trichlorofluoromethane	4.73	101	29581	0.760	ng	97
15) 2-Propanol (Isopropanol)	4.84	45	324917	6.844	ng	94
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	5.33	84	46693	2.910	ng	99
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	5.56	151	5075	0.288	ng	# 77
22) Carbon Disulfide	5.58	76	26358	0.451	ng	97
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	6.34	63	588	N.D.		
25) Methyl tert-Butyl Ether	6.36	73	1238	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	6.64	72	47373	4.888	ng	# 88
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	7.25	61	417225	55.993	ng	99
31) n-Hexane	7.27	57	115373	3.729	ng	99
32) Chloroform	7.34	83	10824	0.319	ng	100
34) Tetrahydrofuran (THF)	7.72	72	58836	6.062	ng	97
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.09	62	23027	0.780	ng	98
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	9.27	61	25335	No Calib	#	
40) 1-Butanol	8.78	56	24999	No Calib	#	
41) Benzene	8.87	78	144555	2.241	ng	100
42) Carbon Tetrachloride	9.04	117	7357	0.259	ng	100
43) Cyclohexane	9.18	84	65575	2.733	ng	97
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	9.83	63	40120	2.207	ng	98
46) Bromodichloromethane	10.08	83	2033	N.D.		
47) Trichloroethene	10.12	130	681	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	10.20	57	270475	3.429	ng	97
50) Methyl Methacrylate	10.38	100	2986	0.490	ng	# 52

Data File : I:\MS09\DATA\2023 03\21\03212323.D
 Acq On : 21 Mar 2023 18:23
 Sample : P2301184-012 (1000ml)
 Misc : S35-02212305

Vial: 15
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 22 05:01:23 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

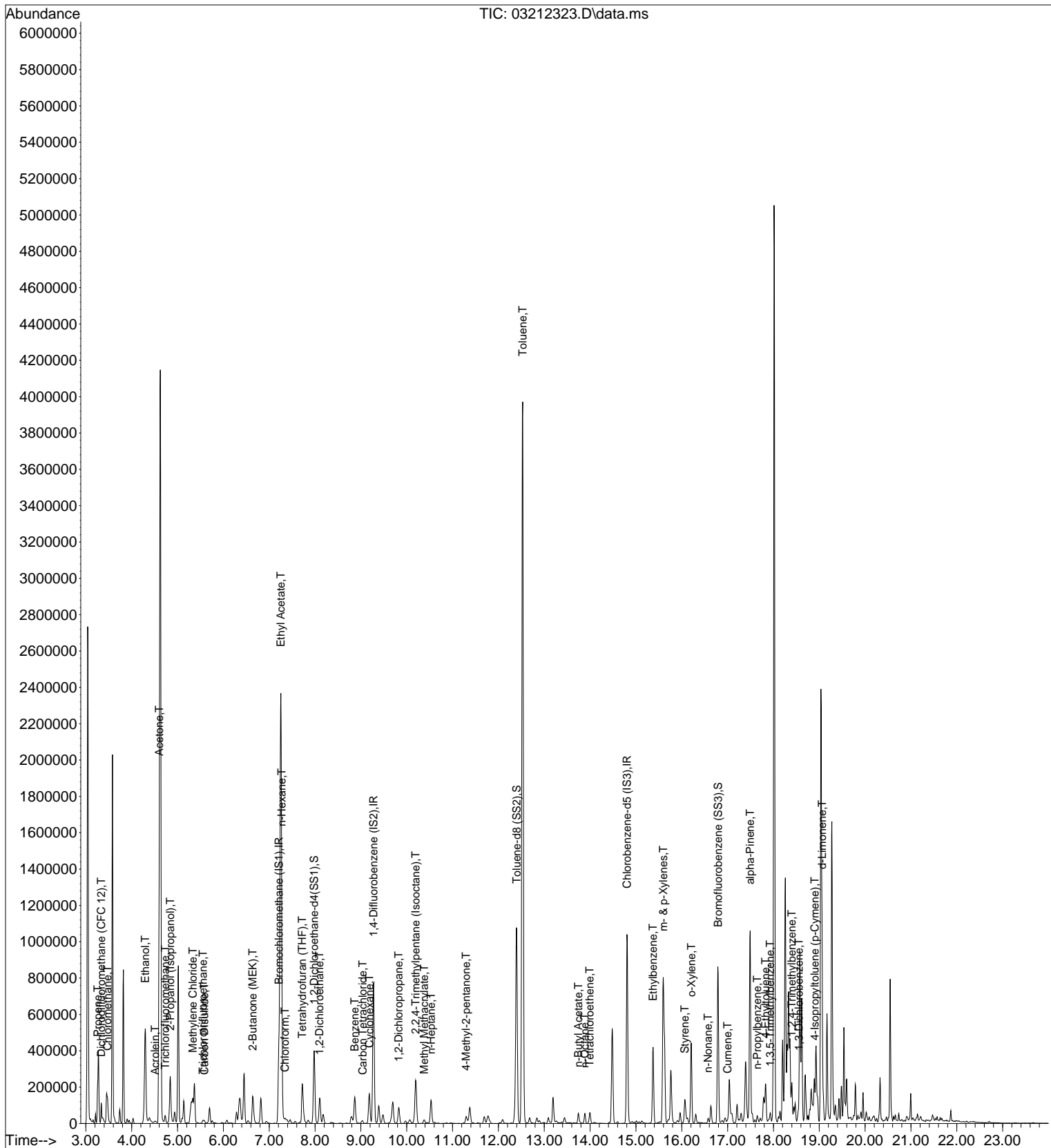
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.53	71	32860	2.045	ng	96
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.30	58	12984	0.822	ng	77
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.53	91	3472606	49.875	ng	97
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	13.74	43	57191	1.175	ng	98
63) n-Octane	13.88	57	10266	0.676	ng	95
64) Tetrachloroethene	13.99	166	18989	0.791	ng	99
65) Chlorobenzene	14.86	112	868	N.D.		
66) Ethylbenzene	15.37	91	351869	4.406	ng	100
67) m- & p-Xylenes	15.60	91	781099	11.919	ng	97
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.07	104	60826	1.472	ng	99
70) o-Xylene	16.21	91	295540	4.577	ng	99
71) n-Nonane	16.57	43	14154	0.347	ng	99
72) 1,1,2,2-Tetrachloroethane	16.19	83	235	N.D.		
74) Cumene	17.00	105	13623	0.171	ng	100
75) alpha-Pinene	17.49	93	436122	13.000	ng	100
76) n-Propylbenzene	17.64	91	32661	0.343	ng	99
77) 3-Ethyltoluene	17.00	105	13623	No Calib		
78) 4-Ethyltoluene	17.83	105	37026	0.492	ng	99
79) 1,3,5-Trimethylbenzene	17.93	105	25183	0.372	ng	99
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.00	105	13623	No Calib		
82) 1,2,4-Trimethylbenzene	18.40	105	96666	1.408	ng	91
83) n-Decane	17.04	58	7126	No Calib	#	
84) Benzyl Chloride	18.62	91	431	N.D.		
85) 1,3-Dichlorobenzene	18.55	146	4439	0.112	ng	95
86) 1,4-Dichlorobenzene	18.63	146	729	N.D.		
87) sec-Butylbenzene	18.72	105	2203	N.D.		
88) 4-Isopropyltoluene (p-...	18.90	119	38565	0.494	ng	88
89) 1,2,3-Trimethylbenzene	17.00	105	13623	No Calib		
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	19.06	68	194662	8.462	ng	97
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.08	58	1200	No Calib	#	
94) 1,2,4-Trichlorobenzene	20.82	180	313	N.D.		
95) Naphthalene	20.93	128	4275	N.D.		
96) n-Dodecane	19.04	58	60253	No Calib	#	
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	15.23	55	511	No Calib	#	
99) tert-Butylbenzene	18.47	119	2203	N.D.		
100) n-Butylbenzene	19.37	91	5177	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\21\03212323.D
Acq On : 21 Mar 2023 18:23
Sample : P2301184-012 (1000ml)
Misc : S35-02212305

Vial: 15
Operator: WA/SR
Inst : MS09

Quant Time: Mar 22 05:01:23 2023
Quant Method : I:\MS09\METHODS\R9022723.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Feb 28 08:30:18 2023
Response via : Initial Calibration
DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2023 03\21\03212323.D
 Acq On : 21 Mar 2023 18:23
 Sample : P2301184-012 (1000ml)
 Misc : S35-02212305

Vial: 15
 Operator: WA/SR
 Inst : MS09

3/22/23

Quant Time: Mar 22 05:01:23 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.21	130	169089	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	9.28	114	755829	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.81	54	172103	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.98	65	361075	12.613	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	100.88%	
57) Toluene-d8 (SS2)	12.40	98	899719	13.758	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	110.08%	
73) Bromofluorobenzene (SS3)	16.79	174	276110	10.354	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	82.80%	

Target Compounds

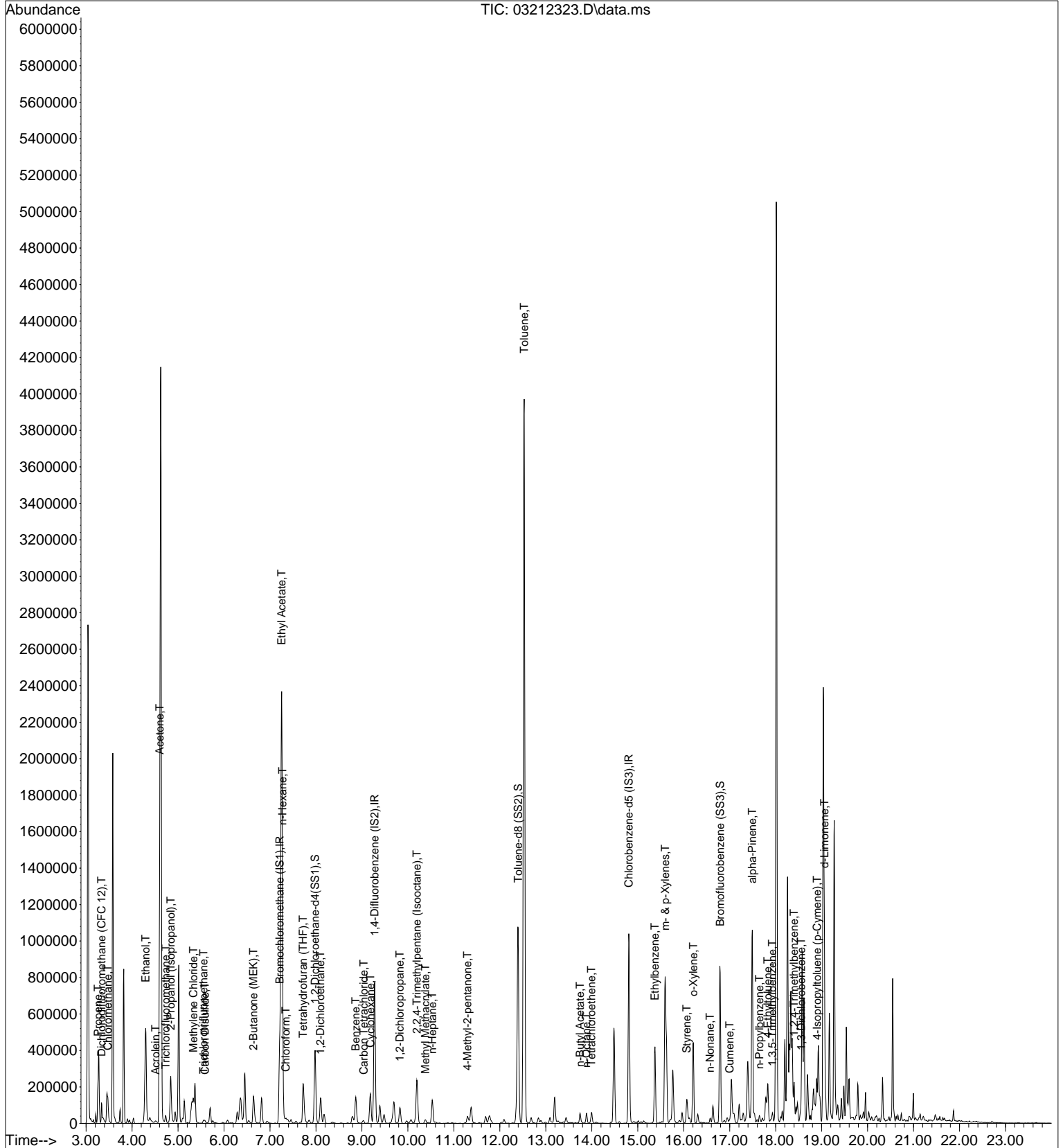
	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.26	42	45889m	2.040	ng	
3) Dichlorodifluoromethan...	3.34	85	63505	1.627	ng	99
4) Chloromethane	3.47	50	8436	0.344	ng	94
10) Ethanol	4.30	45	815270	50.809	ng	99
12) Acrolein	4.51	56	5245	0.490	ng	89
13) Acetone	4.60	58	408214	33.572	ng	# 1
14) Trichlorofluoromethane	4.73	101	29581	0.760	ng	97
15) 2-Propanol (Isopropanol)	4.84	45	324917	6.844	ng	94
19) Methylene Chloride	5.33	84	46693	2.910	ng	99
21) Trichlorotrifluoroethane	5.56	151	5075	0.288	ng	# 77
22) Carbon Disulfide	5.58	76	26358	0.451	ng	97
27) 2-Butanone (MEK)	6.64	72	47373	4.888	ng	# 88
30) Ethyl Acetate	7.25	61	417225	55.993	ng	99
31) n-Hexane	7.27	57	115373	3.729	ng	99
32) Chloroform	7.34	83	10824	0.319	ng	100
34) Tetrahydrofuran (THF)	7.72	72	58836	6.062	ng	97
36) 1,2-Dichloroethane	8.09	62	23027	0.780	ng	98
41) Benzene	8.87	78	144555	2.241	ng	100
42) Carbon Tetrachloride	9.04	117	7357	0.259	ng	100
43) Cyclohexane	9.18	84	65575	2.733	ng	97
45) 1,2-Dichloropropane	9.83	63	40120	2.207	ng	98
49) 2,2,4-Trimethylpentane...	10.20	57	270475	3.429	ng	97
50) Methyl Methacrylate	10.38	100	2986	0.490	ng	# 52
51) n-Heptane	10.53	71	32860	2.045	ng	96
53) 4-Methyl-2-pentanone	11.30	58	12984	0.822	ng	77
58) Toluene	12.53	91	3472606	49.875	ng	97
62) n-Butyl Acetate	13.74	43	57191	1.175	ng	98
63) n-Octane	13.88	57	10266	0.676	ng	95
64) Tetrachloroethene	13.99	166	18989	0.791	ng	99
66) Ethylbenzene	15.37	91	351869	4.406	ng	100
67) m- & p-Xylenes	15.60	91	781099	11.919	ng	97
69) Styrene	16.07	104	60826	1.472	ng	99
70) o-Xylene	16.21	91	295540	4.577	ng	99
71) n-Nonane	16.57	43	14154	0.347	ng	99
74) Cumene	17.00	105	13623	0.171	ng	100
75) alpha-Pinene	17.49	93	436122	13.000	ng	100
76) n-Propylbenzene	17.64	91	32661	0.343	ng	99
78) 4-Ethyltoluene	17.83	105	37026	0.492	ng	99
79) 1,3,5-Trimethylbenzene	17.93	105	25183	0.372	ng	99
82) 1,2,4-Trimethylbenzene	18.40	105	96666	1.408	ng	91
85) 1,3-Dichlorobenzene	18.55	146	4439	0.112	ng	95
88) 4-Isopropyltoluene (p-...	18.90	119	38565	0.494	ng	88
91) d-Limonene	19.06	68	194662	8.462	ng	97

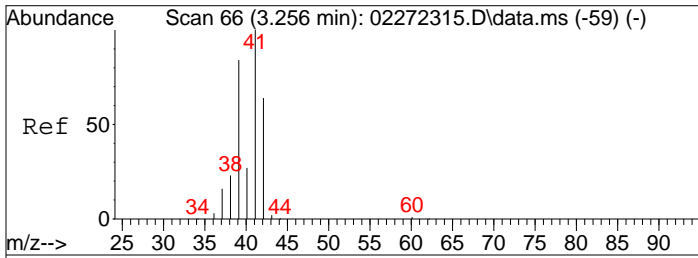
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS09\DATA\2023 03\21\03212323.D
Acq On : 21 Mar 2023 18:23
Sample : P2301184-012 (1000ml)
Misc : S35-02212305

Vial: 15
Operator: WA/SR
Inst : MS09

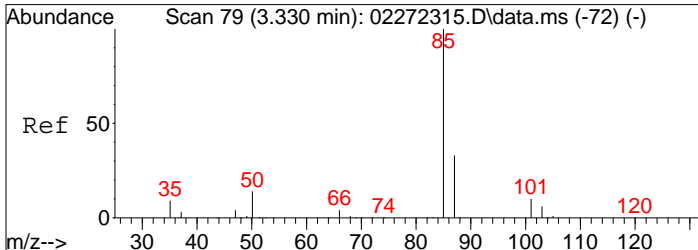
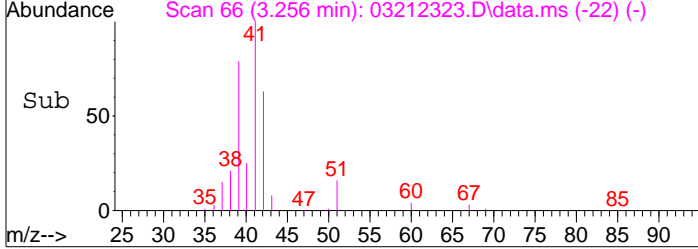
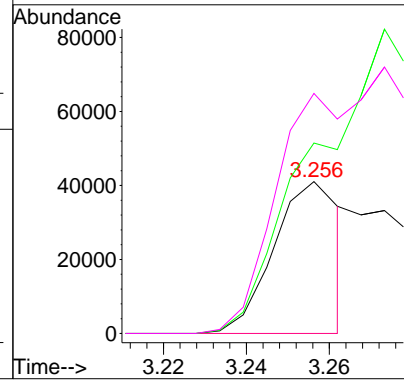
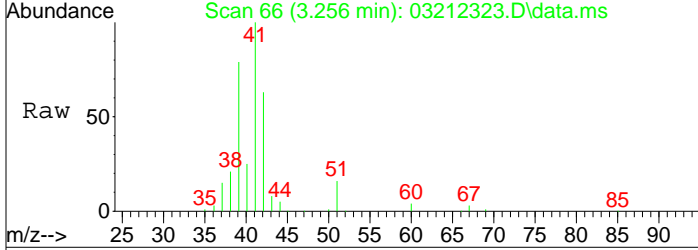
Quant Time: Mar 22 05:01:23 2023
Quant Method : I:\MS09\METHODS\R9022723.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Feb 28 08:30:18 2023
Response via : Initial Calibration
DataAcq Meth:TO15.M





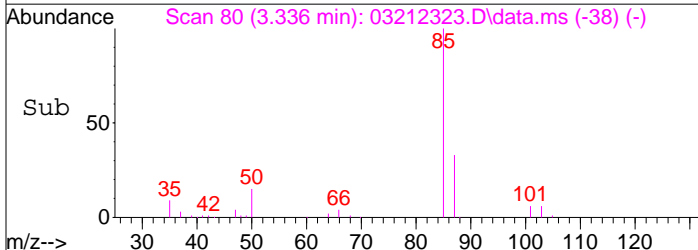
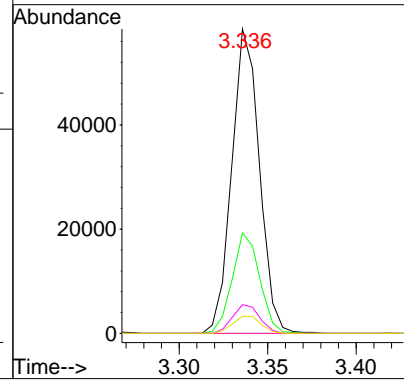
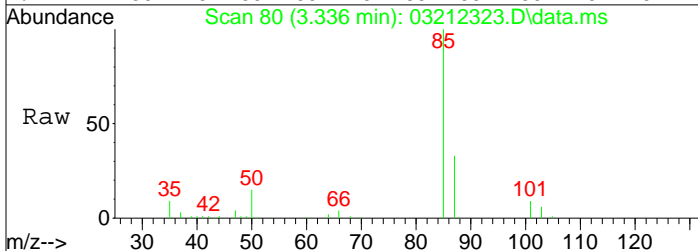
#2
 Propene
 Concen: 2.04 ng m
 RT: 3.26 min Scan# 66
 Delta R.T. -0.000 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

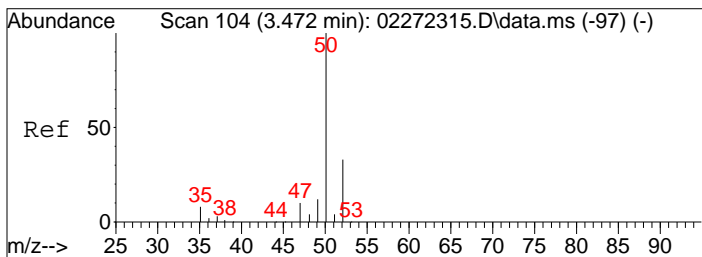
Tgt Ion	Resp	Lower	Upper
42	100		
39	126.6	110.0	150.0
41	158.9	135.8	175.8



#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.63 ng
 RT: 3.34 min Scan# 80
 Delta R.T. -0.014 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

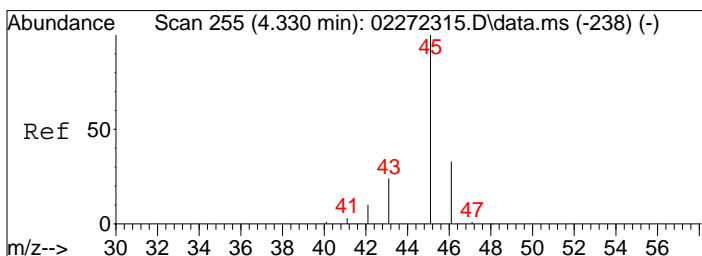
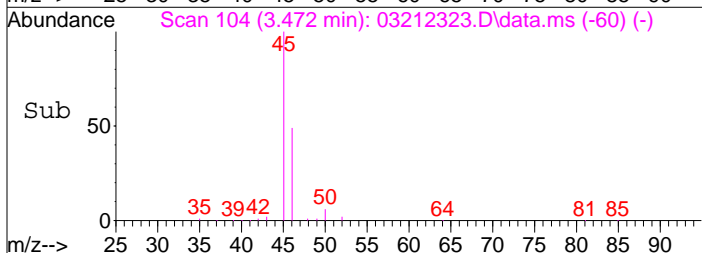
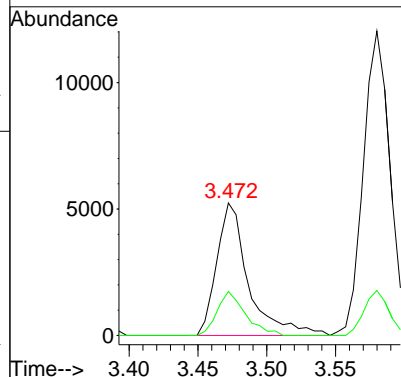
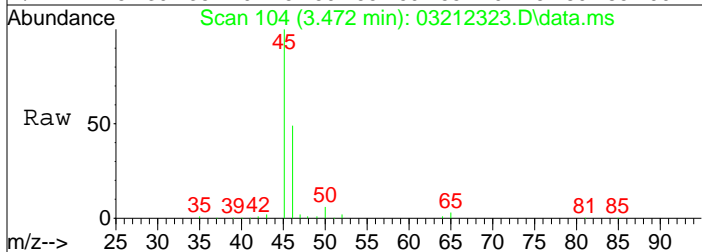
Tgt Ion	Resp	Lower	Upper
85	100		
87	32.8	12.3	52.3
101	9.3	0.0	29.7
103	5.8	0.0	26.3





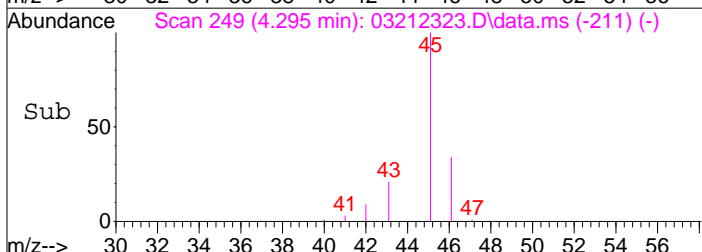
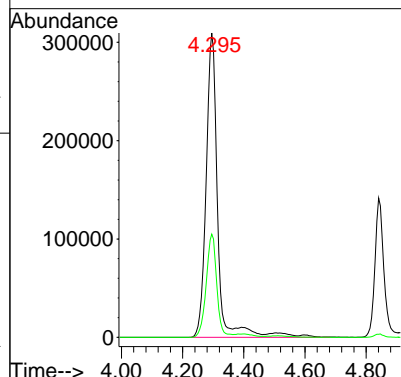
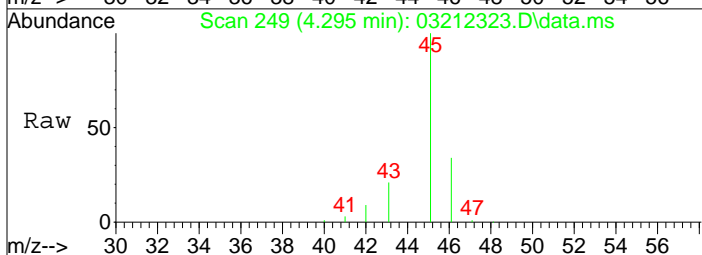
#4
 Chloromethane
 Concen: 0.34 ng
 RT: 3.47 min Scan# 104
 Delta R.T. -0.000 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

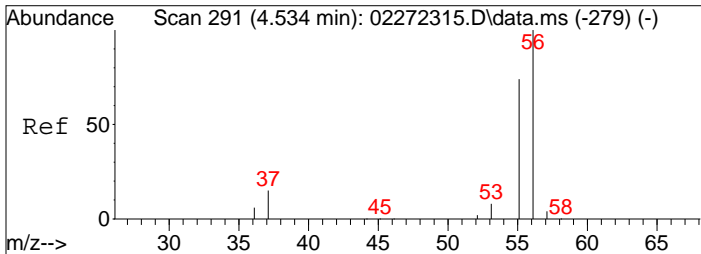
Tgt Ion	Resp	Lower	Upper
50	100		
52	29.6	12.8	52.8



#10
 Ethanol
 Concen: 50.81 ng
 RT: 4.30 min Scan# 249
 Delta R.T. -0.034 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

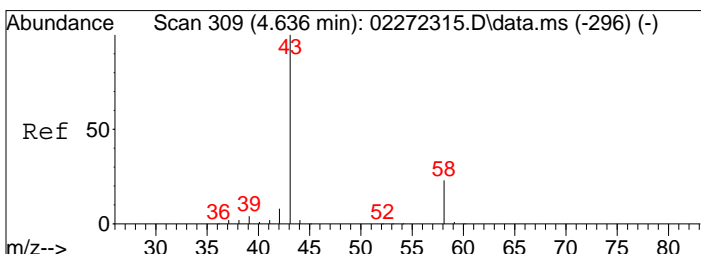
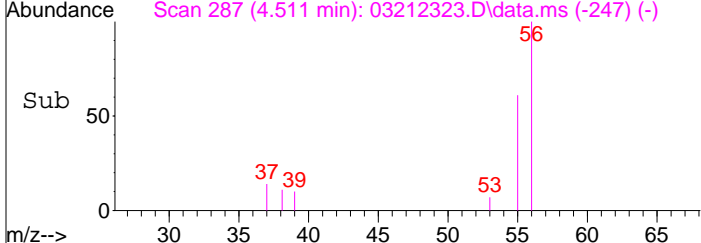
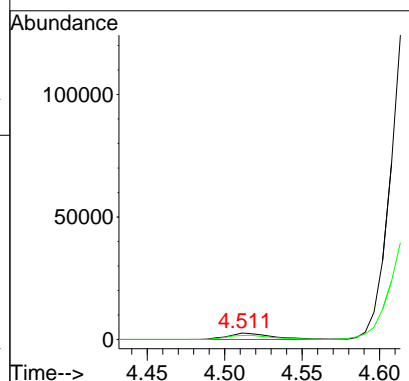
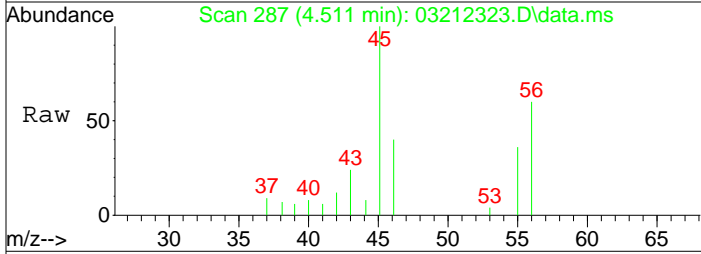
Tgt Ion	Resp	Lower	Upper
45	100		
46	33.8	13.4	53.4





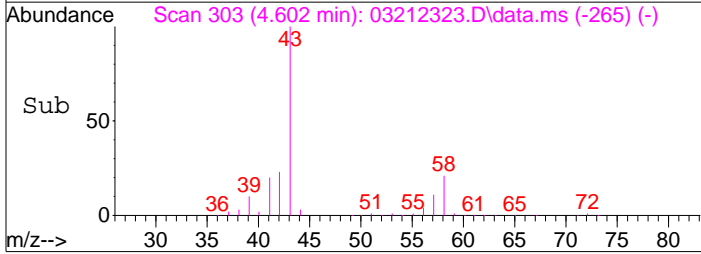
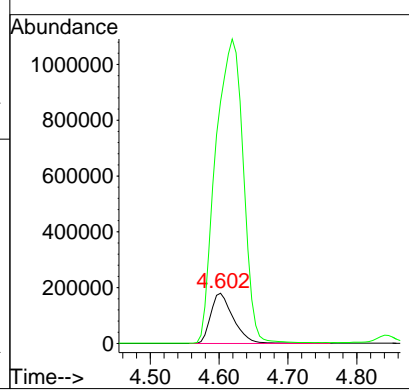
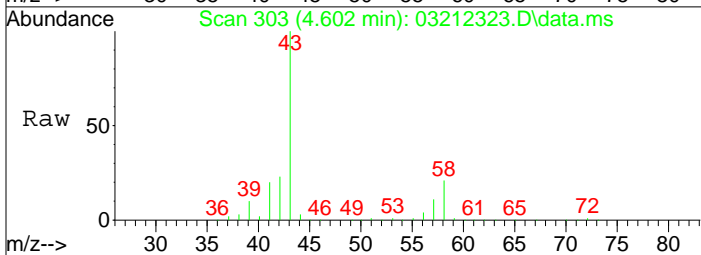
#12
 Acrolein
 Concen: 0.49 ng
 RT: 4.51 min Scan# 287
 Delta R.T. -0.023 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

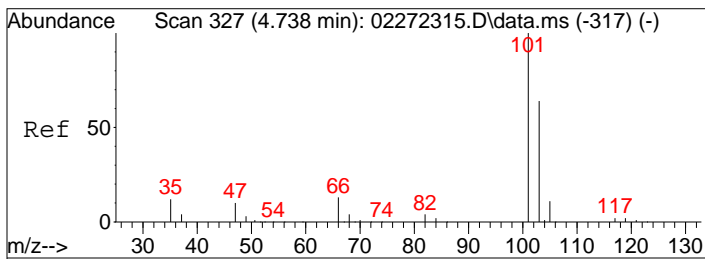
Tgt Ion:	Resp:	Lower	Upper
56	100		
55	66.8	56.4	96.4



#13
 Acetone
 Concen: 33.57 ng
 RT: 4.60 min Scan# 303
 Delta R.T. -0.034 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

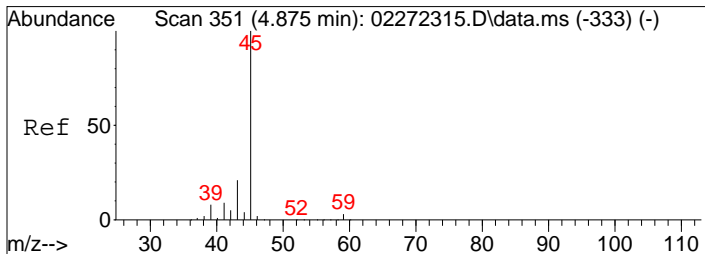
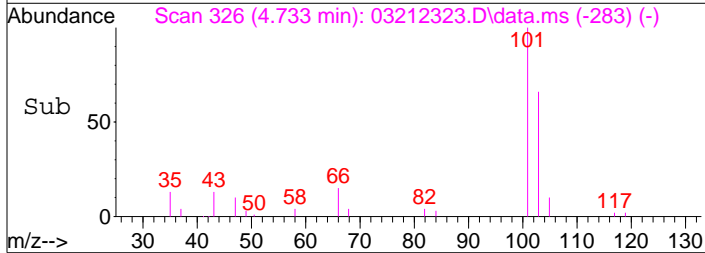
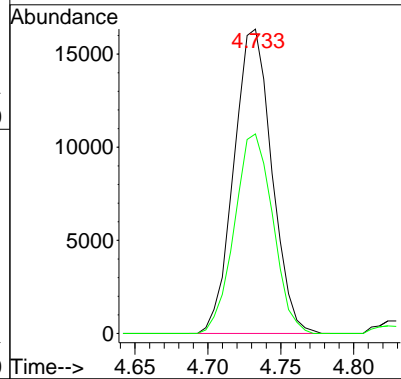
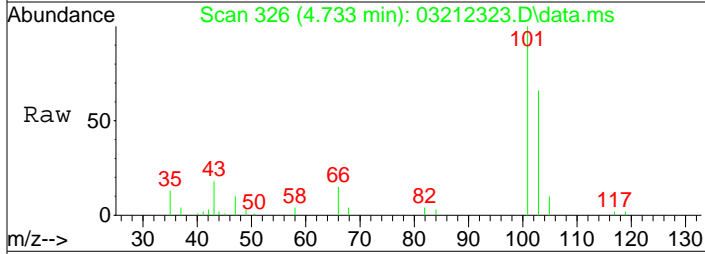
Tgt Ion:	Resp:	Lower	Upper
58	100		
43	744.7	414.4	474.4#





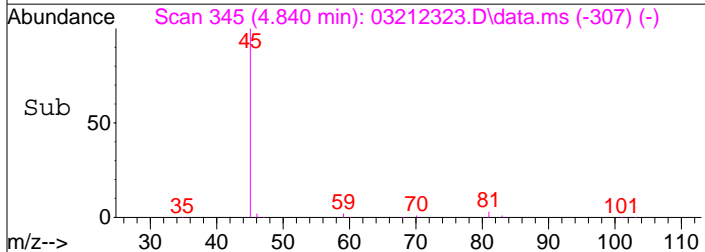
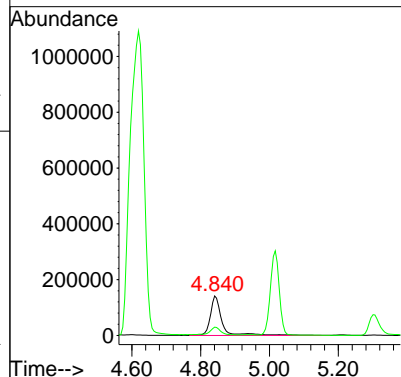
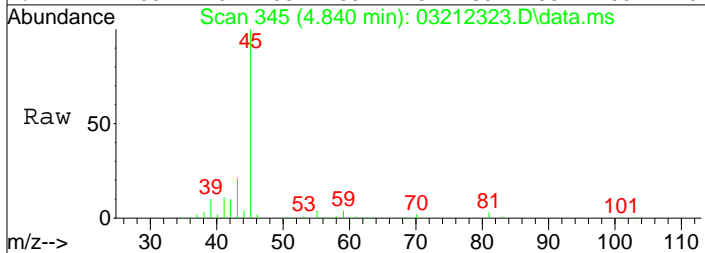
#14
 Trichlorofluoromethane
 Concen: 0.76 ng
 RT: 4.73 min Scan# 326
 Delta R.T. -0.006 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

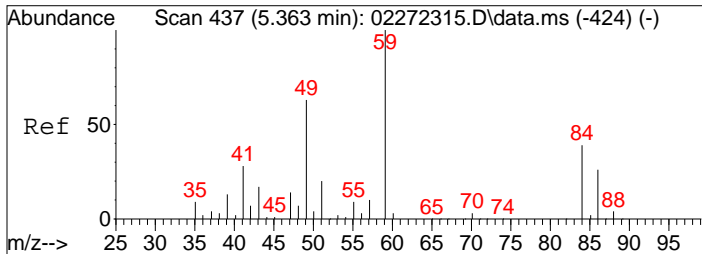
Tgt Ion: 101 Resp: 29581
 Ion Ratio Lower Upper
 101 100
 103 66.1 44.0 84.0



#15
 2-Propanol (Isopropanol)
 Concen: 6.84 ng
 RT: 4.84 min Scan# 345
 Delta R.T. -0.035 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

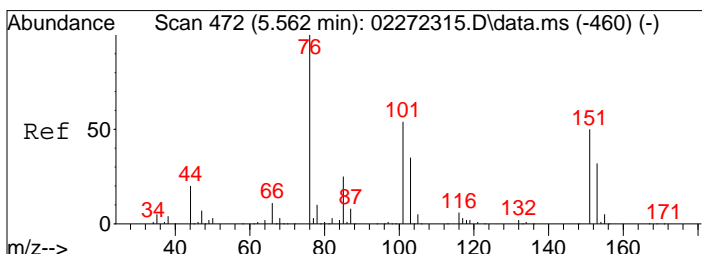
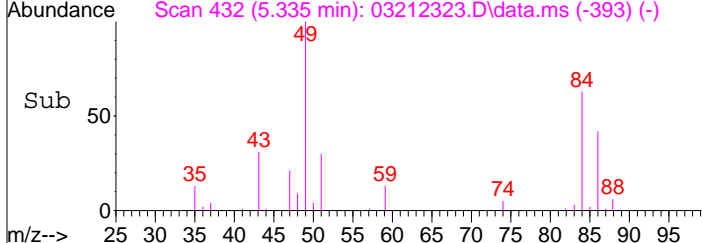
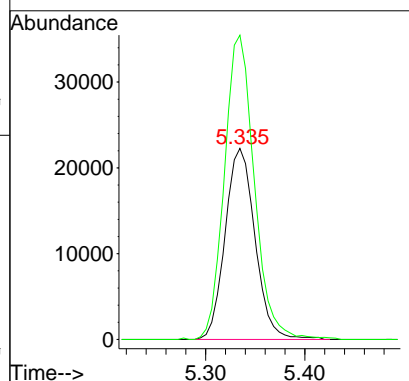
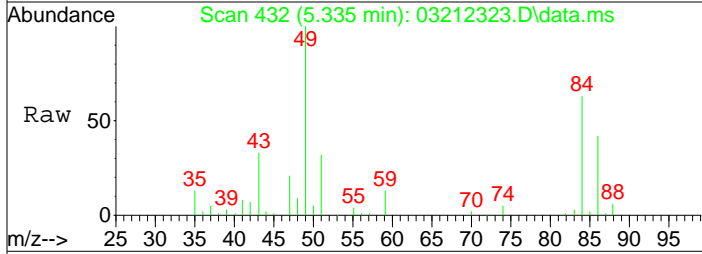
Tgt Ion: 45 Resp: 324917
 Ion Ratio Lower Upper
 45 100
 43 18.7 1.6 41.6





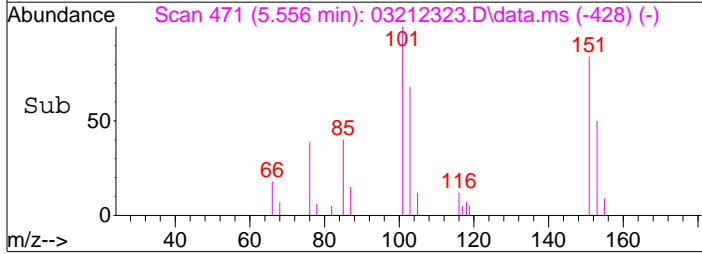
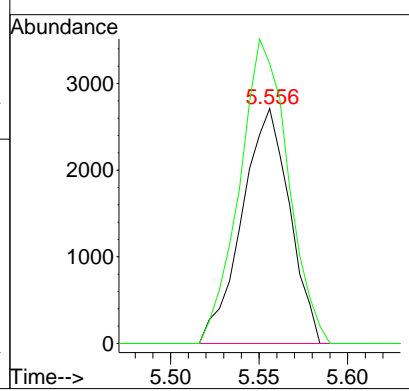
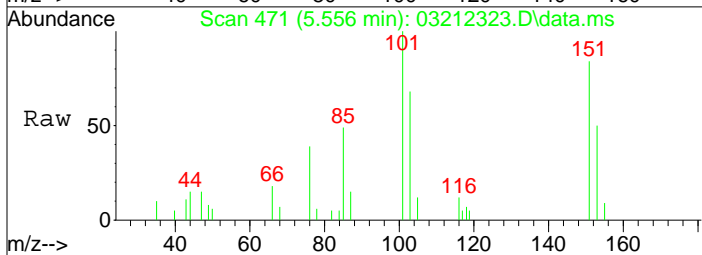
#19
 Methylene Chloride
 Concen: 2.91 ng
 RT: 5.33 min Scan# 432
 Delta R.T. -0.029 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

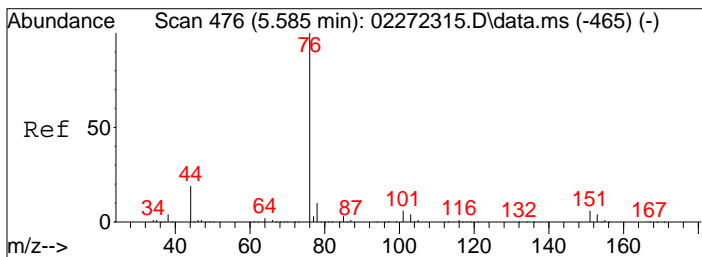
Tgt Ion	Resp	Lower	Upper
84	46693	100	186.0
49	159.5	136.0	186.0



#21
 Trichlorotrifluoroethane
 Concen: 0.29 ng
 RT: 5.56 min Scan# 471
 Delta R.T. -0.006 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

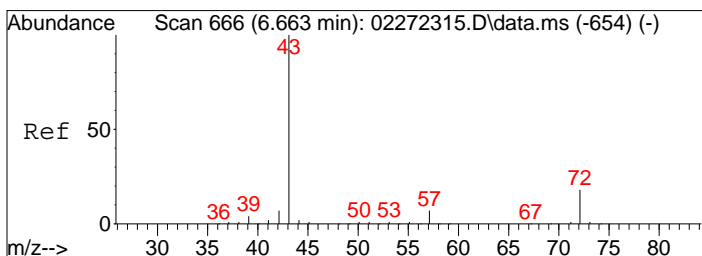
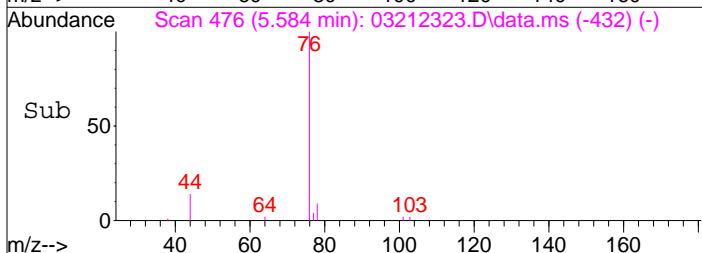
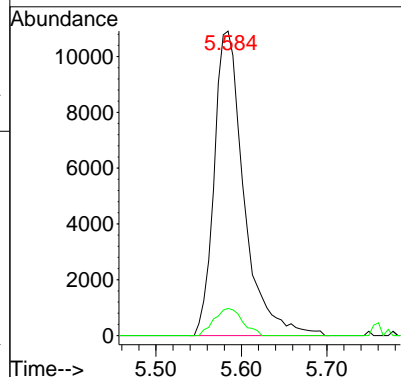
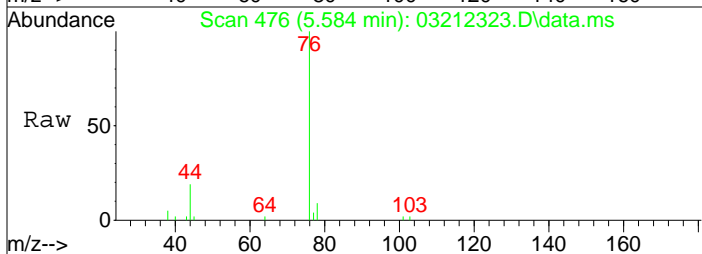
Tgt Ion	Resp	Lower	Upper
151	5075	100	128.2#
101	132.3	88.2	128.2#





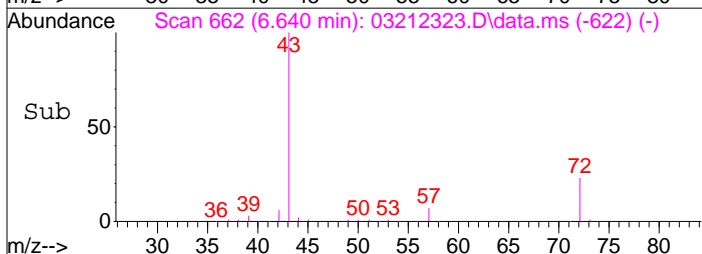
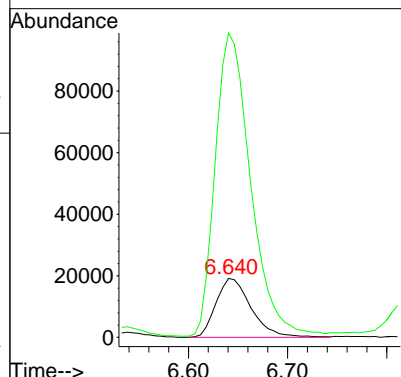
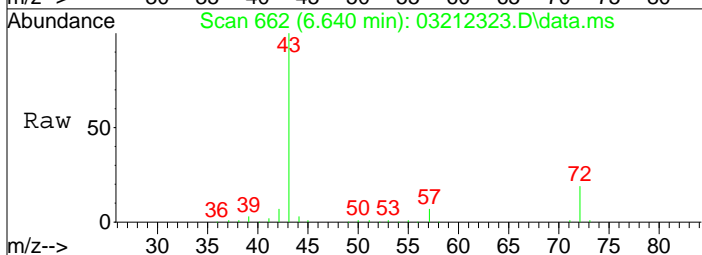
#22
 Carbon Disulfide
 Concen: 0.45 ng
 RT: 5.58 min Scan# 476
 Delta R.T. -0.000 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

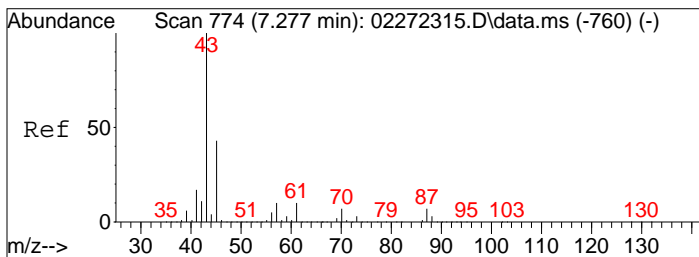
Tgt Ion: 76 Resp: 26358
 Ion Ratio Lower Upper
 76 100
 78 8.5 0.0 29.7



#27
 2-Butanone (MEK)
 Concen: 4.89 ng
 RT: 6.64 min Scan# 662
 Delta R.T. -0.023 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

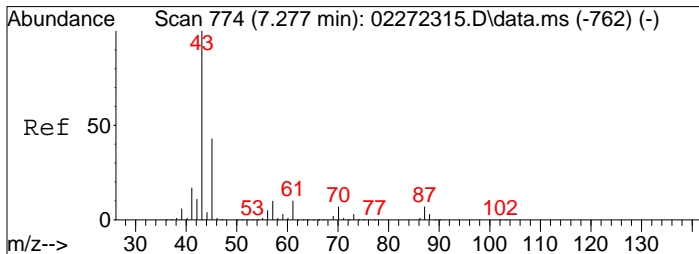
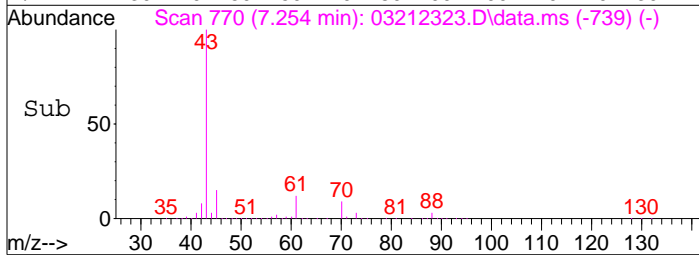
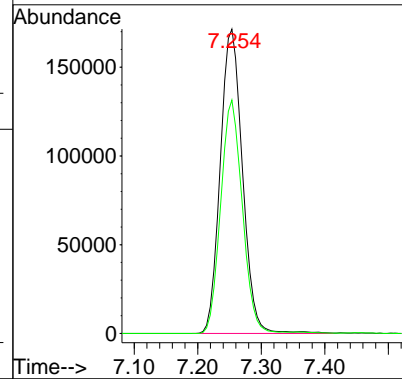
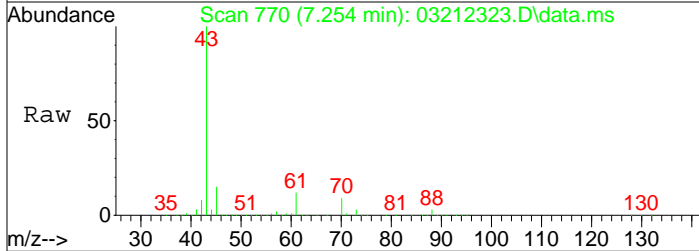
Tgt Ion: 72 Resp: 47373
 Ion Ratio Lower Upper
 72 100
 43 520.6 536.0 576.0#





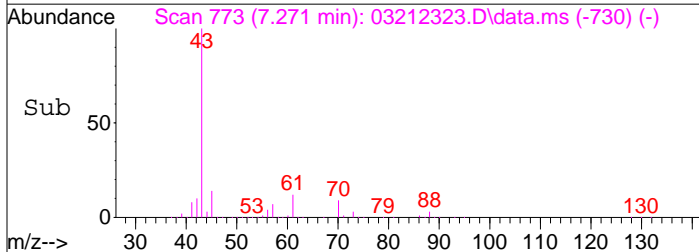
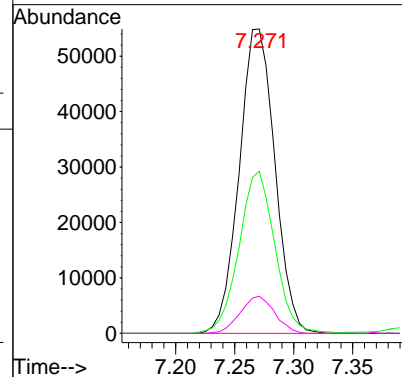
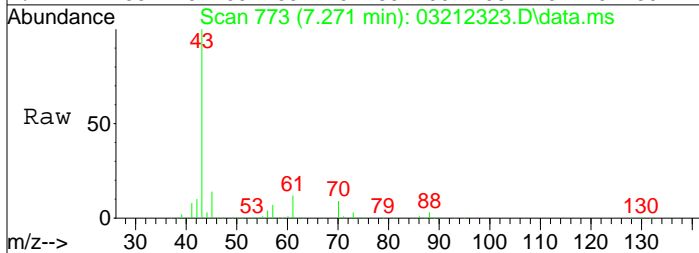
#30
Ethyl Acetate
Concen: 55.99 ng
RT: 7.25 min Scan# 770
Delta R.T. -0.023 min
Lab File: 03212323.D
Acq: 21 Mar 2023 18:23

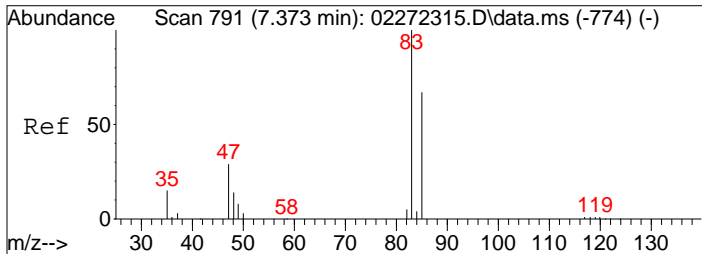
Tgt Ion: 61 Resp: 417225
Ion Ratio Lower Upper
61 100
70 75.1 55.8 95.8



#31
n-Hexane
Concen: 3.73 ng
RT: 7.27 min Scan# 773
Delta R.T. -0.006 min
Lab File: 03212323.D
Acq: 21 Mar 2023 18:23

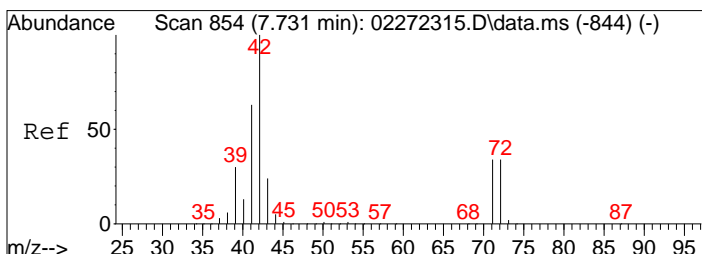
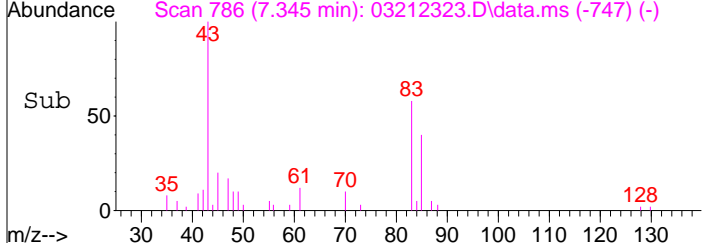
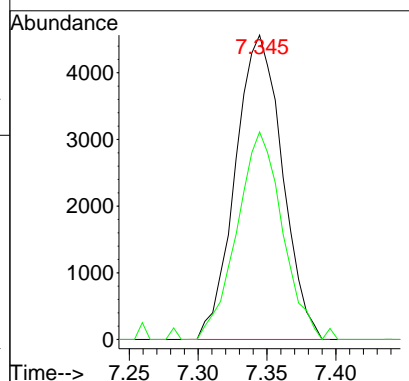
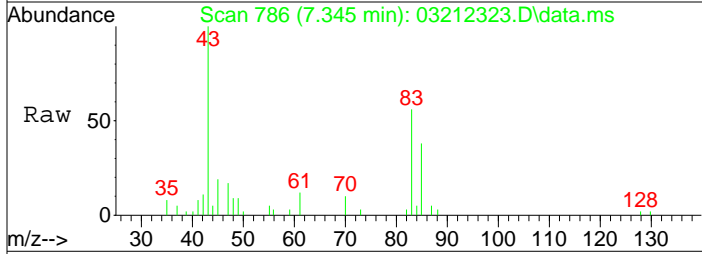
Tgt Ion: 57 Resp: 115373
Ion Ratio Lower Upper
57 100
56 53.6 43.3 64.9
86 11.8 10.2 15.2





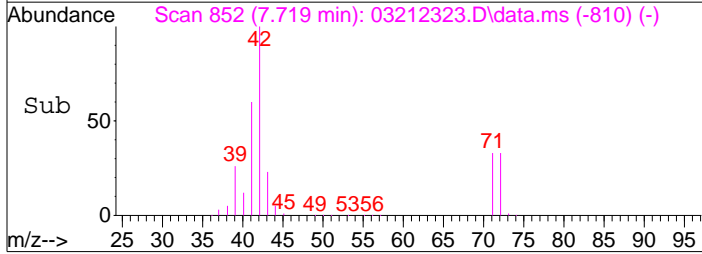
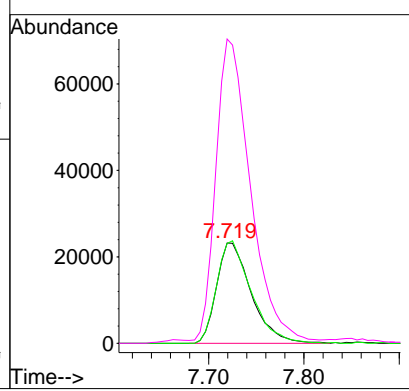
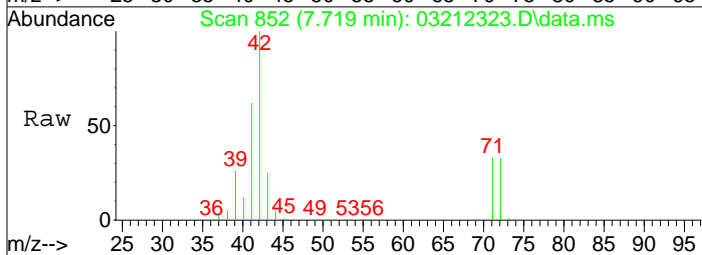
#32
 Chloroform
 Concen: 0.32 ng
 RT: 7.34 min Scan# 786
 Delta R.T. -0.029 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

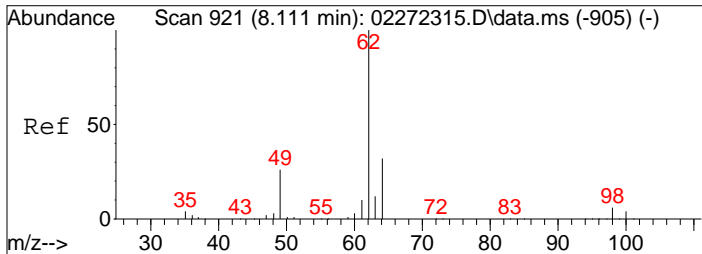
Tgt Ion	Resp	Lower	Upper
83	10824		
85	66.3	46.3	86.3



#34
 Tetrahydrofuran (THF)
 Concen: 6.06 ng
 RT: 7.72 min Scan# 852
 Delta R.T. -0.012 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

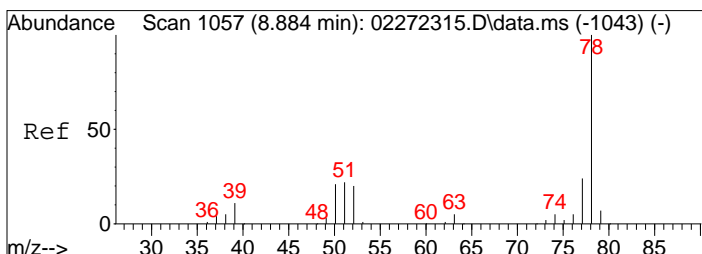
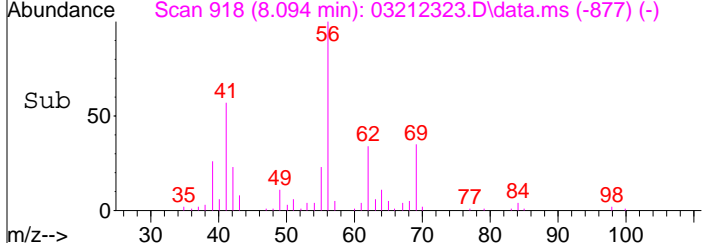
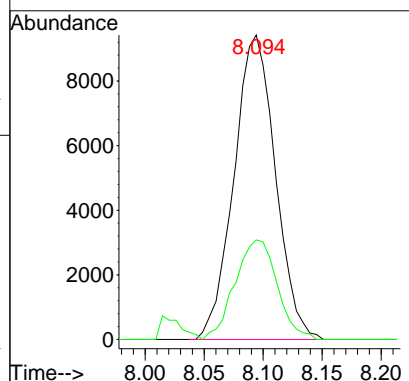
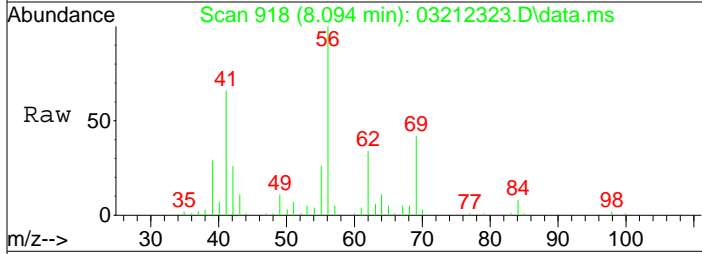
Tgt Ion	Resp	Lower	Upper
72	58836		
71	101.2	81.3	121.3
42	305.4	293.7	333.7





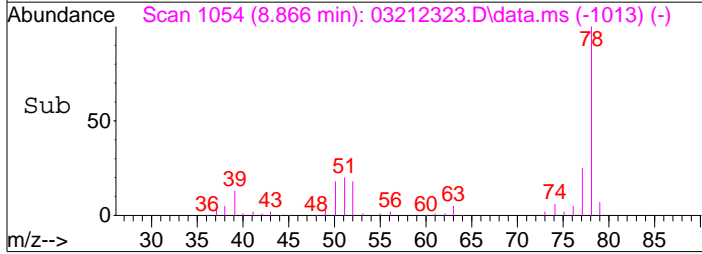
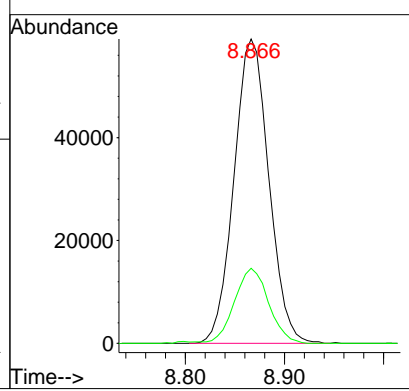
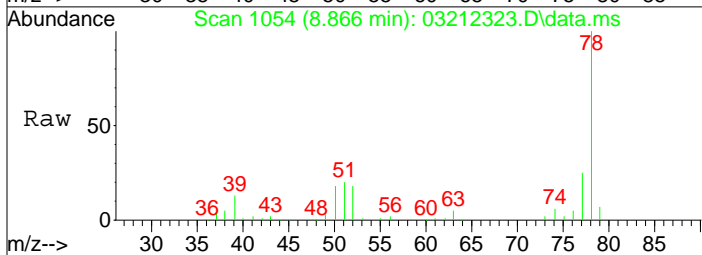
#36
 1,2-Dichloroethane
 Concen: 0.78 ng
 RT: 8.09 min Scan# 918
 Delta R.T. -0.017 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

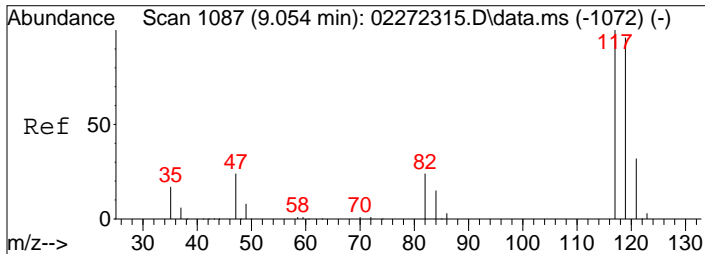
Tgt Ion	Resp	Lower	Upper
62	100		
64	33.3	12.0	52.0



#41
 Benzene
 Concen: 2.24 ng
 RT: 8.87 min Scan# 1054
 Delta R.T. -0.017 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

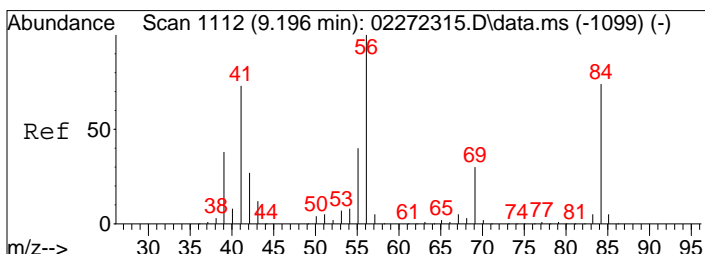
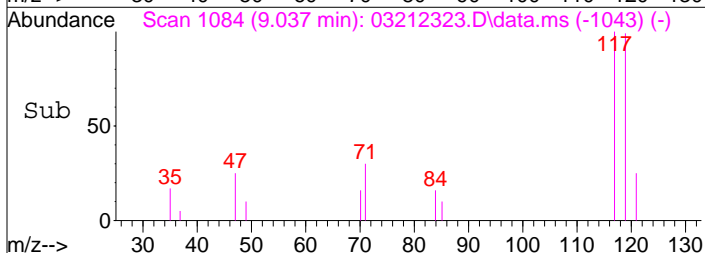
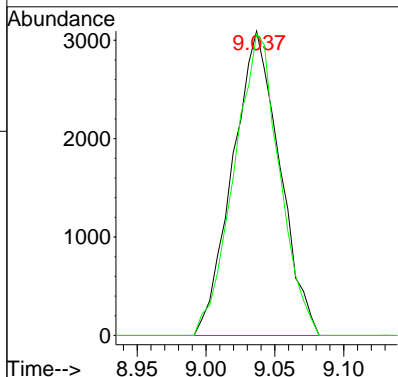
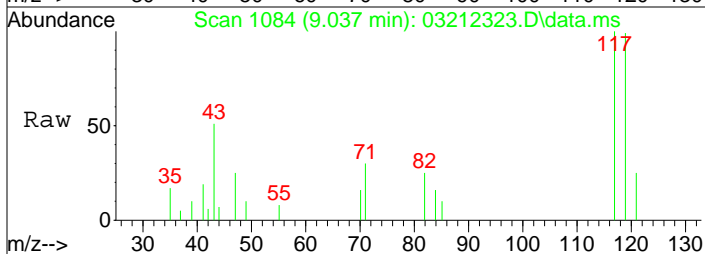
Tgt Ion	Resp	Lower	Upper
78	100		
77	24.1	4.0	44.0





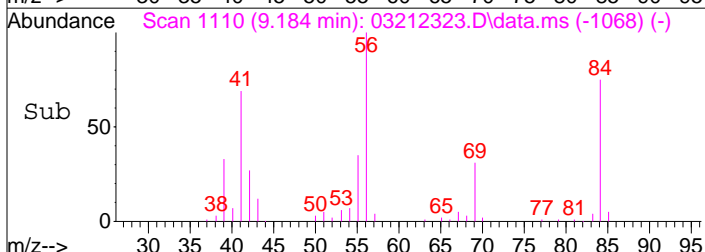
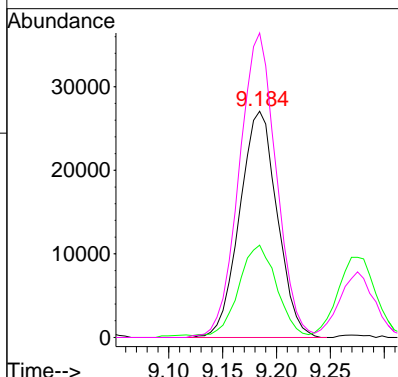
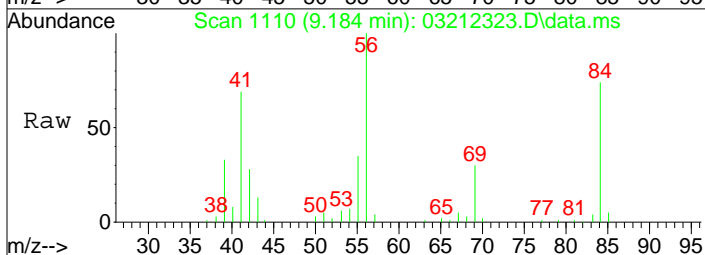
#42
 Carbon Tetrachloride
 Concen: 0.26 ng
 RT: 9.04 min Scan# 1084
 Delta R.T. -0.017 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

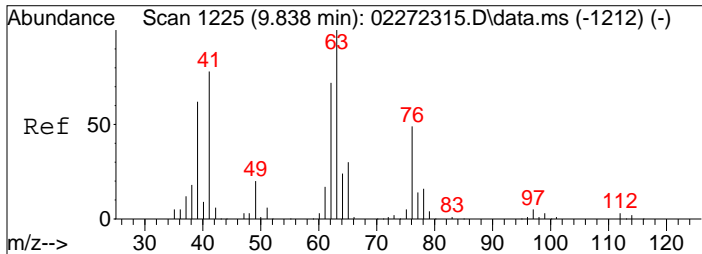
Tgt Ion: 117 Resp: 7357
 Ion Ratio Lower Upper
 117 100
 119 95.8 75.5 115.5



#43
 Cyclohexane
 Concen: 2.73 ng
 RT: 9.18 min Scan# 1110
 Delta R.T. -0.012 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

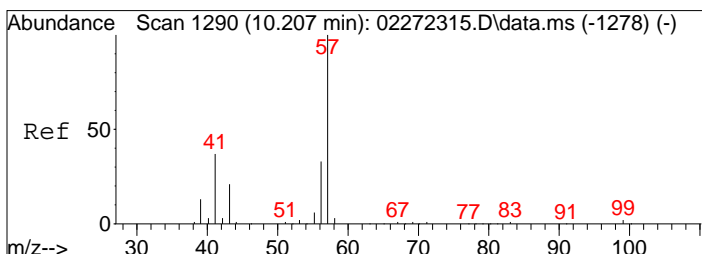
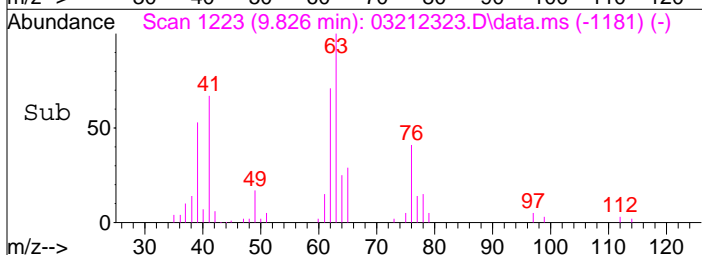
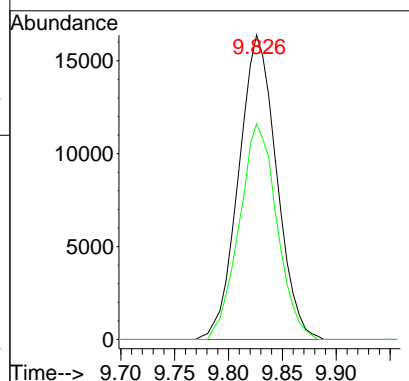
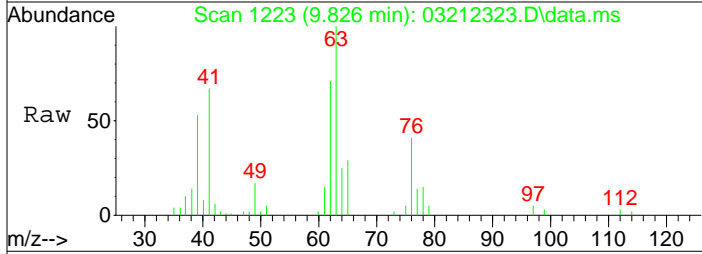
Tgt Ion: 84 Resp: 65575
 Ion Ratio Lower Upper
 84 100
 69 42.3 20.6 60.6
 56 132.8 116.1 156.1





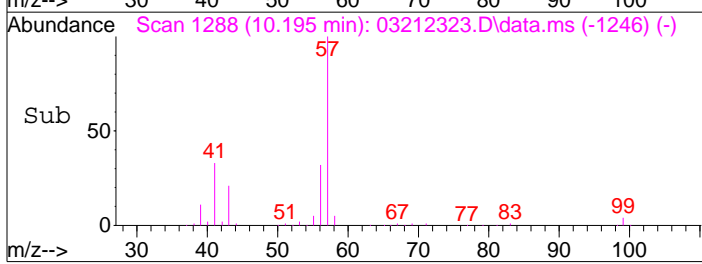
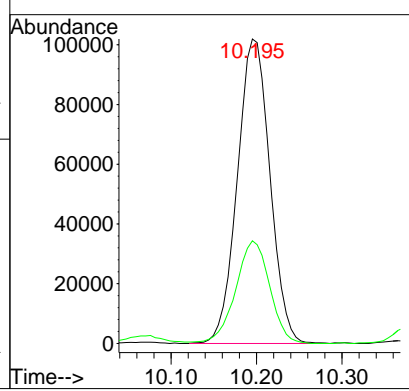
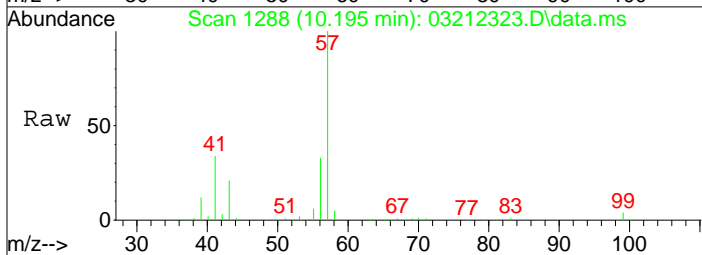
#45
 1,2-Dichloropropane
 Concen: 2.21 ng
 RT: 9.83 min Scan# 1223
 Delta R.T. -0.012 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

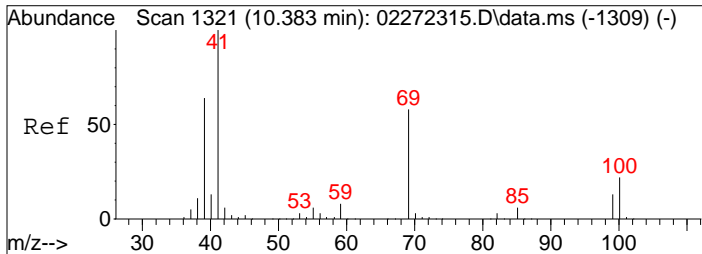
Tgt Ion	Resp	Lower	Upper
63	100		
62	70.3	52.1	92.1



#49
 2,2,4-Trimethylpentane (Isooctane)
 Concen: 3.43 ng
 RT: 10.20 min Scan# 1288
 Delta R.T. -0.012 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

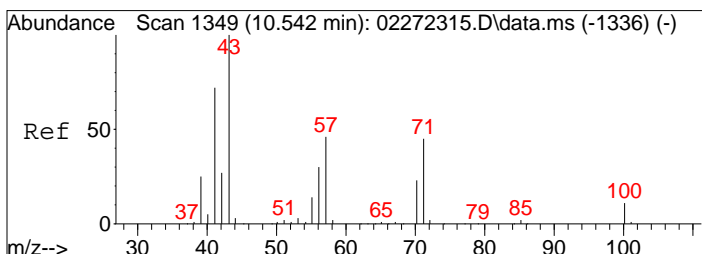
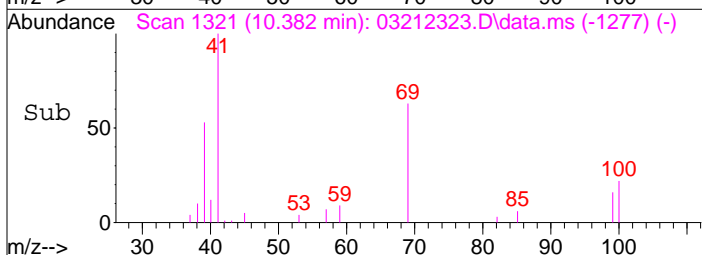
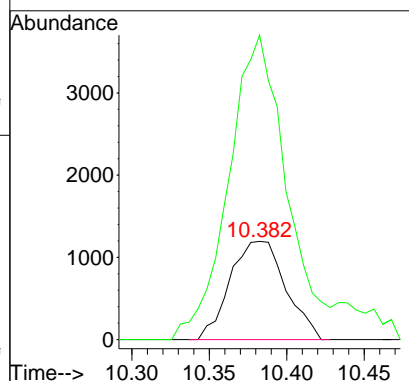
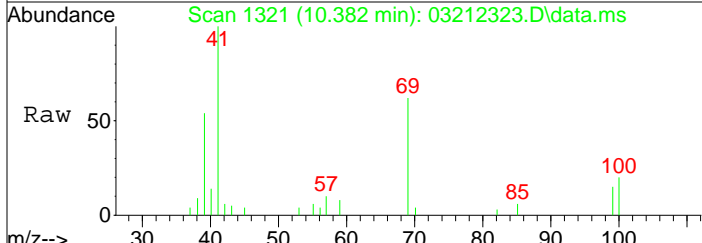
Tgt Ion	Resp	Lower	Upper
57	100		
41	35.2	17.1	57.1





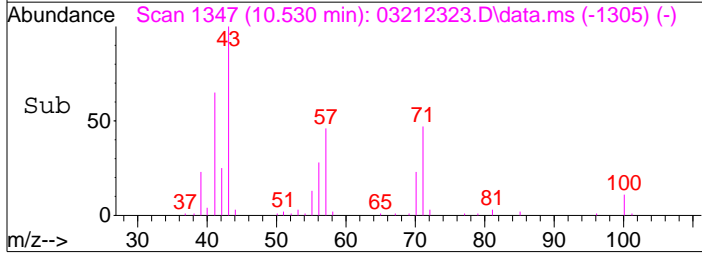
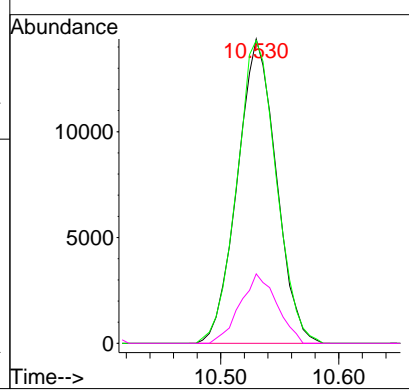
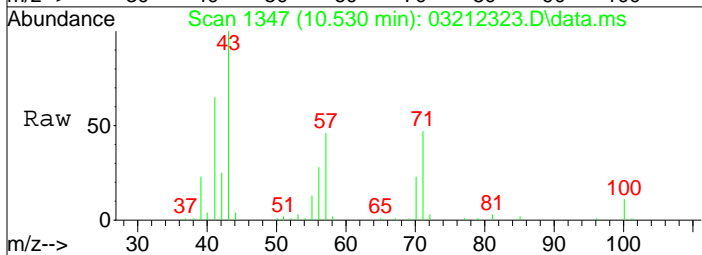
#50
 Methyl Methacrylate
 Concen: 0.49 ng
 RT: 10.38 min Scan# 1321
 Delta R.T. -0.000 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

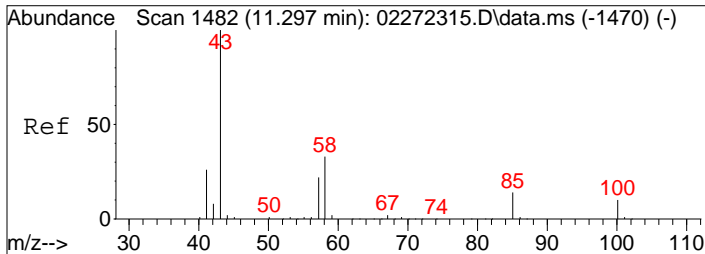
Tgt Ion	Resp	Lower	Upper
100	2986		
69	347.4	241.7	281.7#



#51
 n-Heptane
 Concen: 2.04 ng
 RT: 10.53 min Scan# 1347
 Delta R.T. -0.012 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

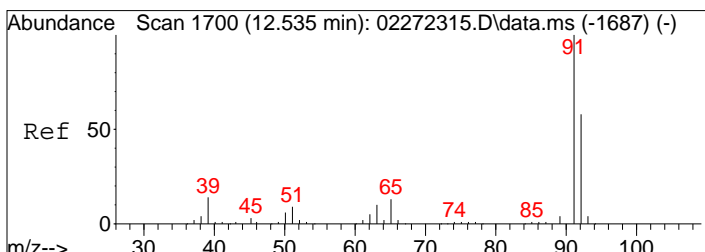
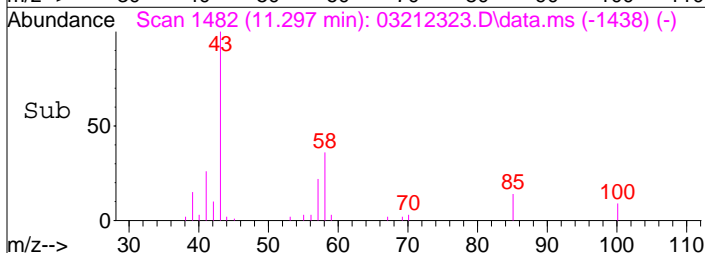
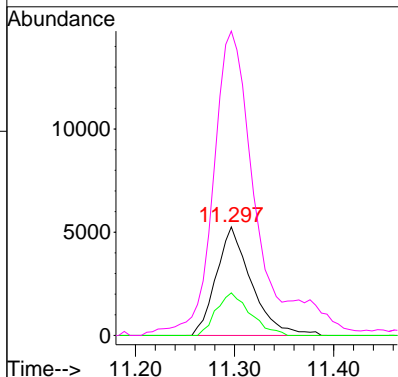
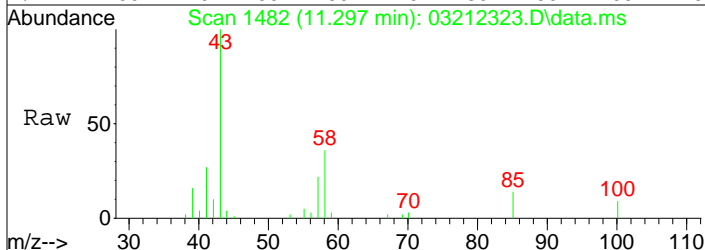
Tgt Ion	Resp	Lower	Upper
71	32860		
71	100		
57	101.1	84.6	124.6
100	21.6	5.8	45.8





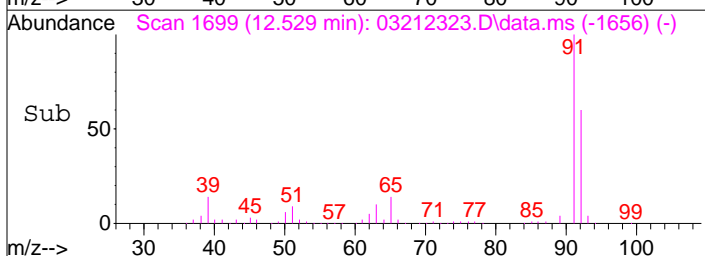
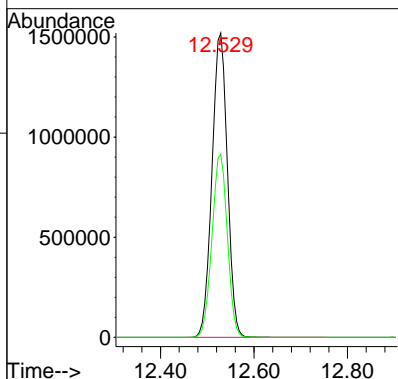
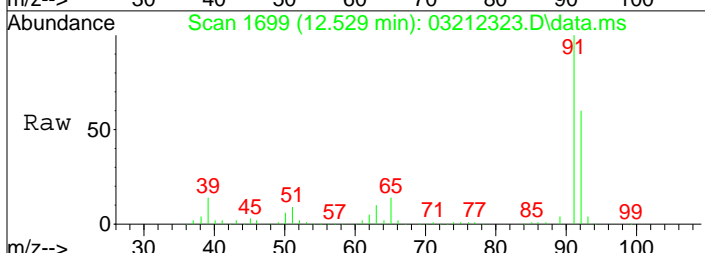
#53
 4-Methyl-2-pentanone
 Concen: 0.82 ng
 RT: 11.30 min Scan# 1482
 Delta R.T. -0.000 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

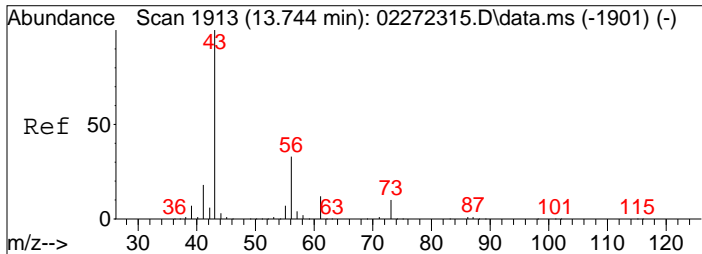
Tgt Ion:	Resp:	Lower	Upper
58	12984		
100			
85	37.9	35.7	53.5
43	352.0	242.9	364.3



#58
 Toluene
 Concen: 49.87 ng
 RT: 12.53 min Scan# 1699
 Delta R.T. -0.006 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

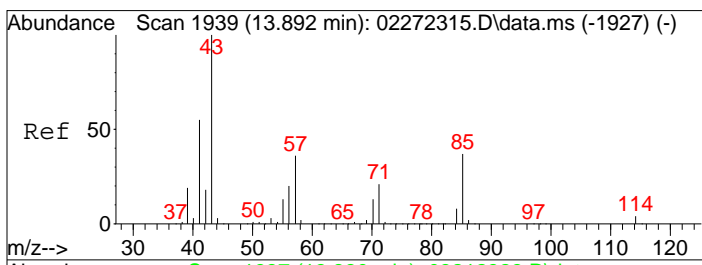
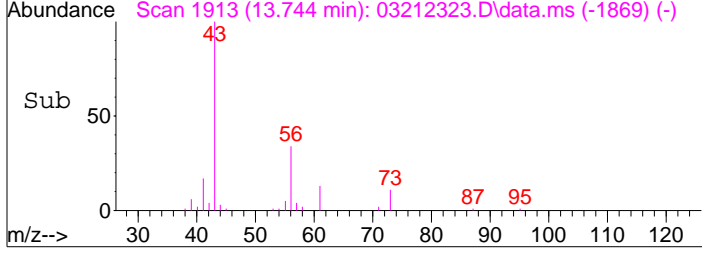
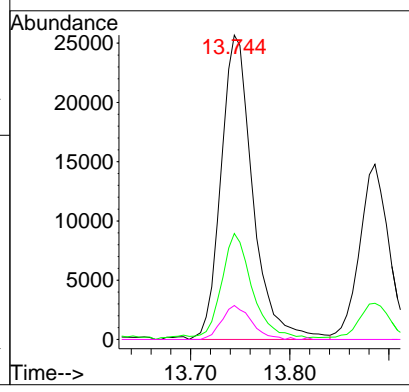
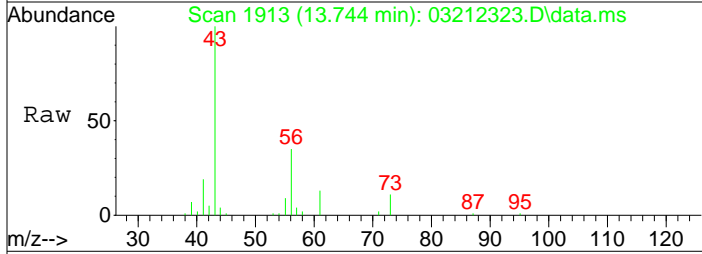
Tgt Ion:	Resp:	Lower	Upper
91	3472606		
92	60.1	37.6	77.6





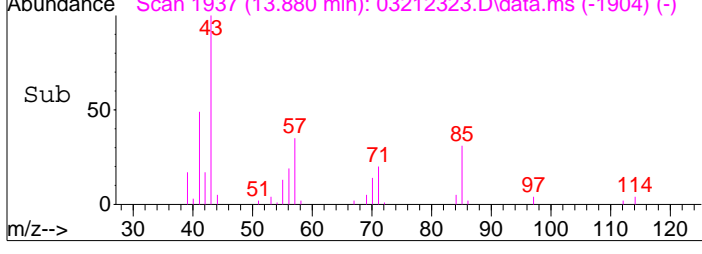
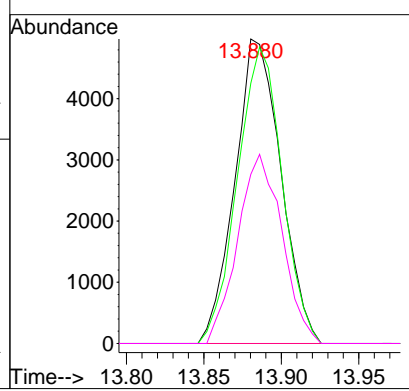
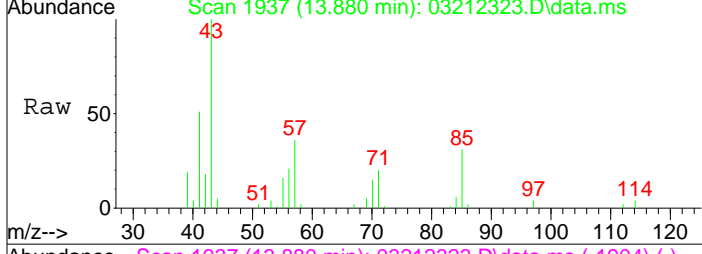
#62
 n-Butyl Acetate
 Concen: 1.17 ng
 RT: 13.74 min Scan# 1913
 Delta R.T. -0.000 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

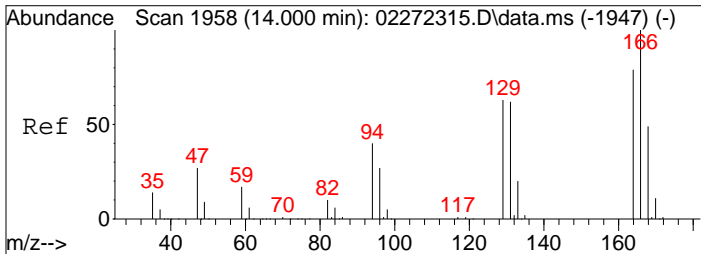
Tgt Ion:	Resp:	Lower	Upper
43	57191		
56	34.3	13.1	53.1
73	10.5	0.0	29.9



#63
 n-Octane
 Concen: 0.68 ng
 RT: 13.88 min Scan# 1937
 Delta R.T. -0.012 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

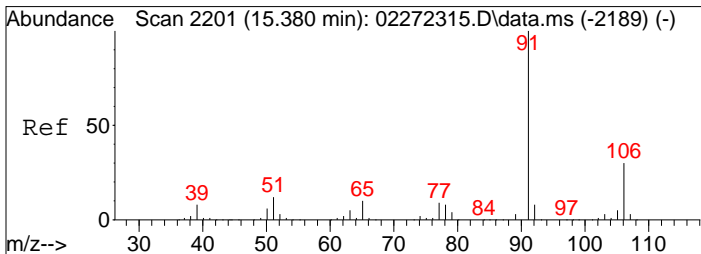
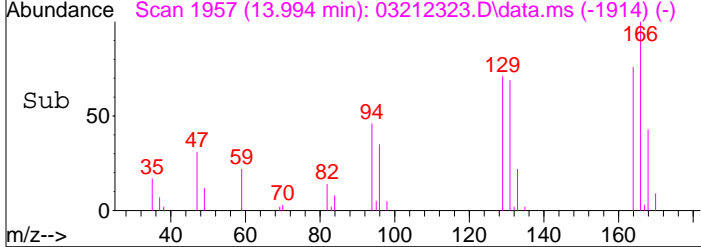
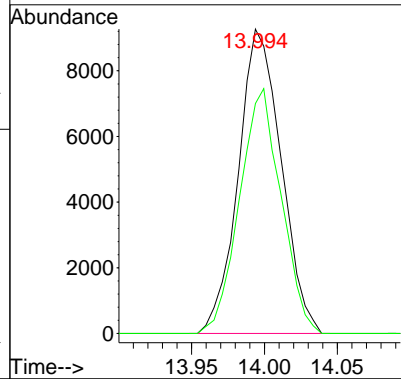
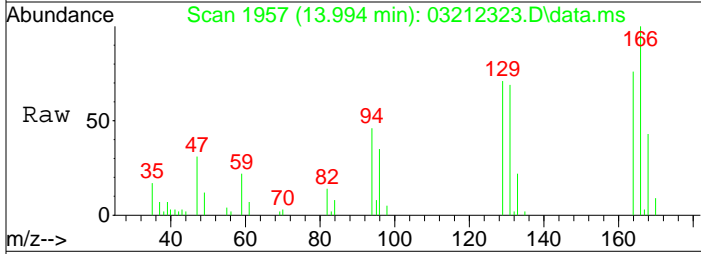
Tgt Ion:	Resp:	Lower	Upper
57	10266		
85	94.7	82.4	123.6
71	59.8	47.8	71.6





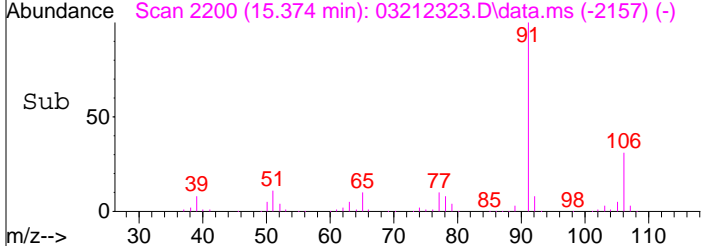
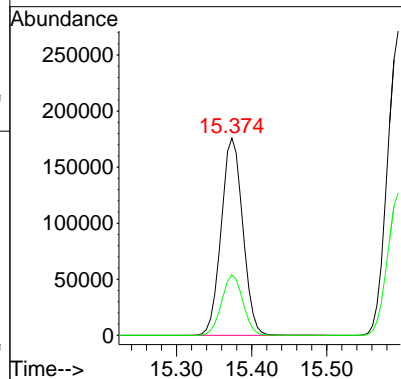
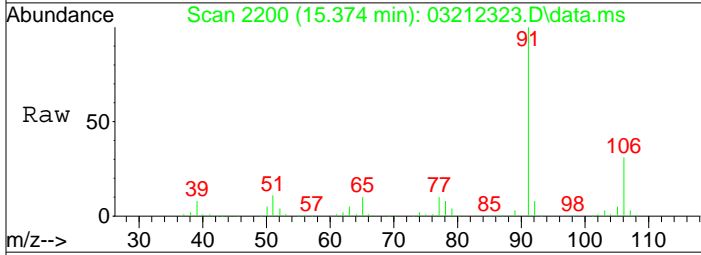
#64
 Tetrachloroethene
 Concen: 0.79 ng
 RT: 13.99 min Scan# 1957
 Delta R.T. -0.006 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

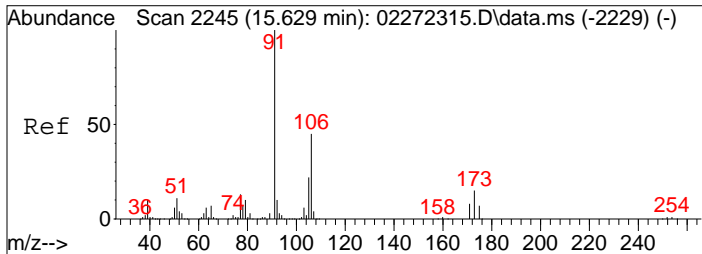
Tgt Ion: 166 Resp: 18989
 Ion Ratio Lower Upper
 166 100
 164 77.8 58.6 98.6



#66
 Ethylbenzene
 Concen: 4.41 ng
 RT: 15.37 min Scan# 2200
 Delta R.T. -0.006 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

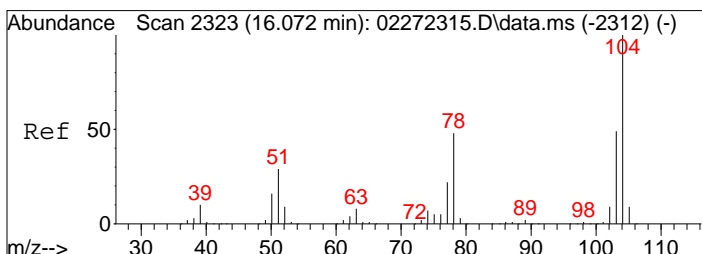
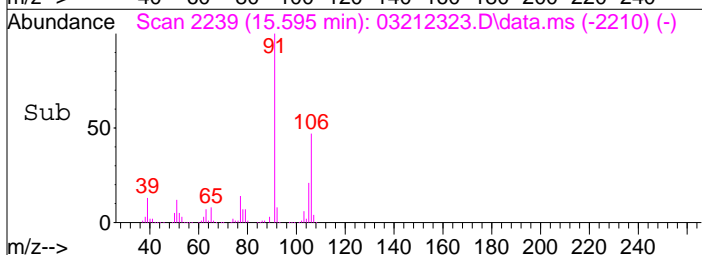
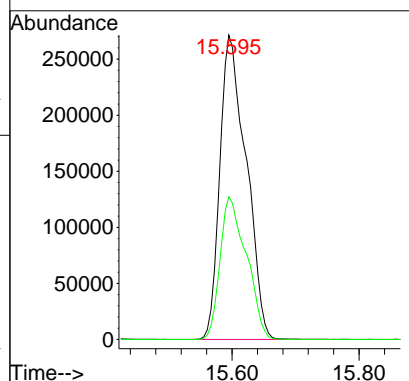
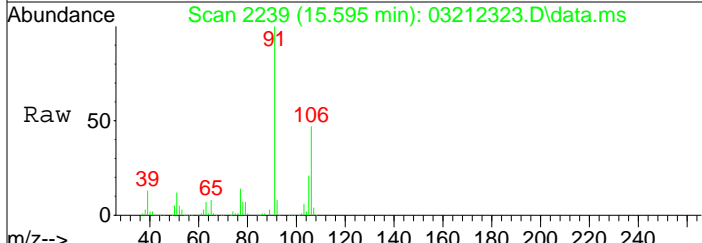
Tgt Ion: 91 Resp: 351869
 Ion Ratio Lower Upper
 91 100
 106 30.3 10.3 50.3





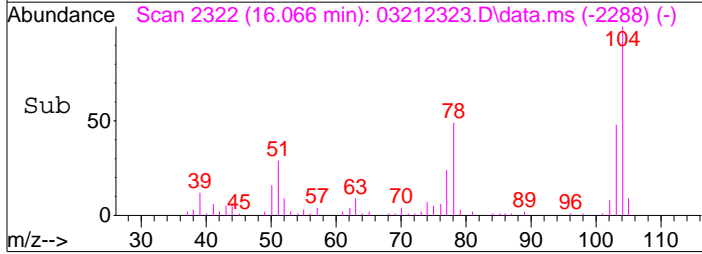
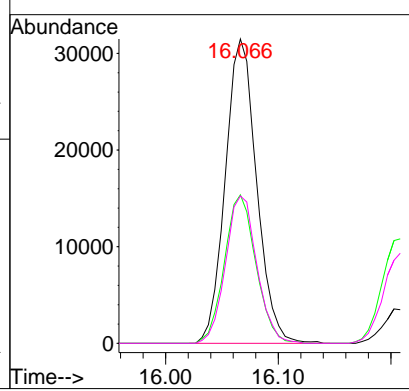
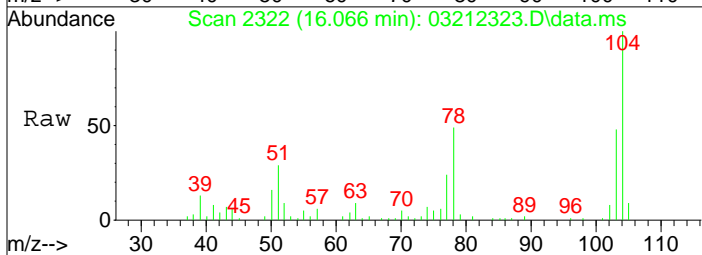
#67
 m- & p-Xylenes
 Concen: 11.92 ng
 RT: 15.60 min Scan# 2239
 Delta R.T. -0.034 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

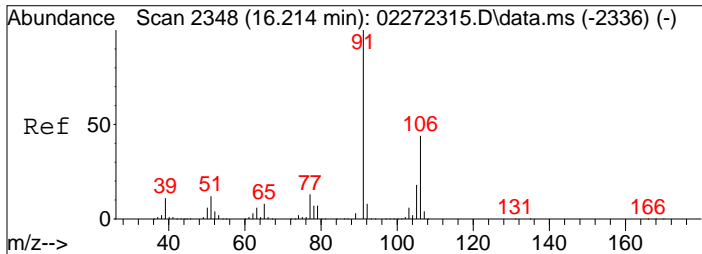
Tgt Ion	Resp	Lower	Upper
91	781099		
106	46.9	25.0	65.0



#69
 Styrene
 Concen: 1.47 ng
 RT: 16.07 min Scan# 2322
 Delta R.T. -0.006 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

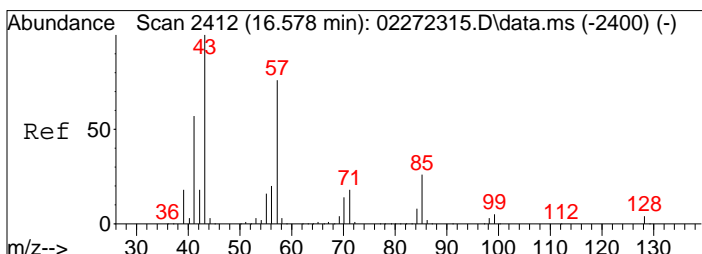
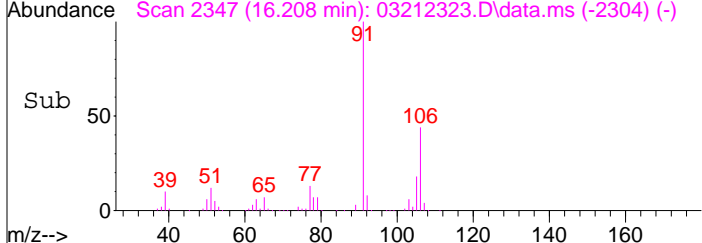
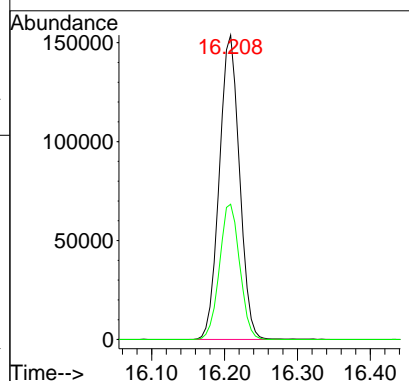
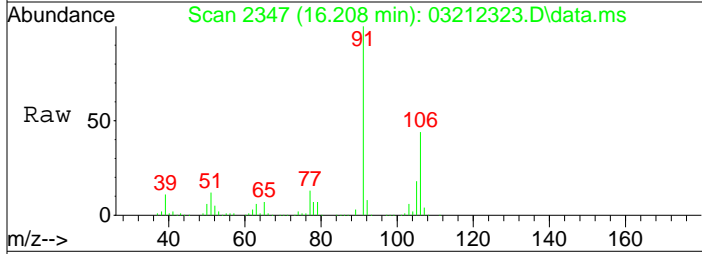
Tgt Ion	Resp	Lower	Upper
104	60826		
78	49.0	29.2	69.2
103	48.4	29.2	69.2





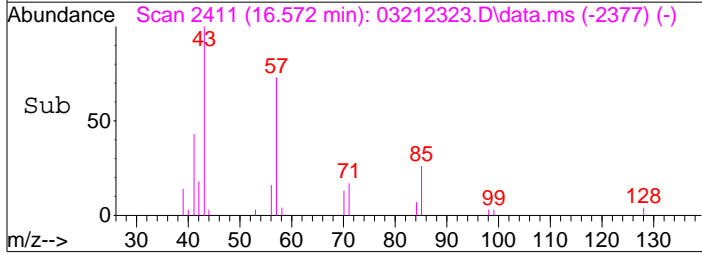
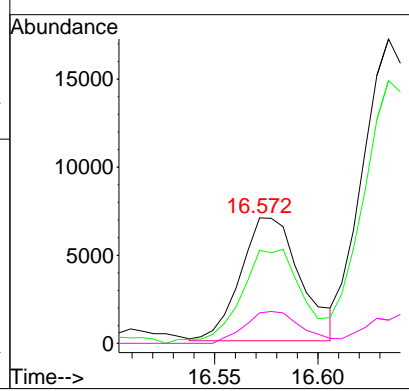
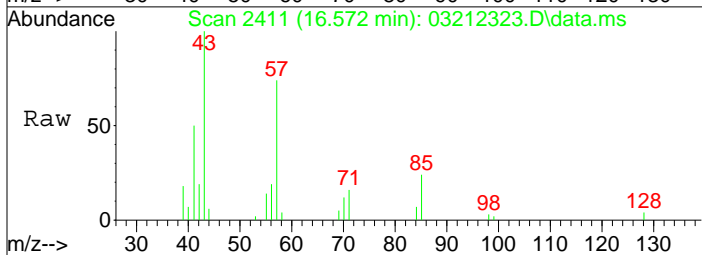
#70
 o-Xylene
 Concen: 4.58 ng
 RT: 16.21 min Scan# 2347
 Delta R.T. -0.006 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

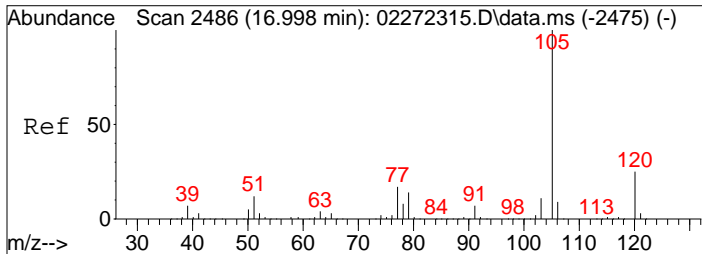
Tgt Ion	Resp	Lower	Upper
91	100		
106	44.6	24.0	64.0



#71
 n-Nonane
 Concen: 0.35 ng
 RT: 16.57 min Scan# 2411
 Delta R.T. -0.006 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

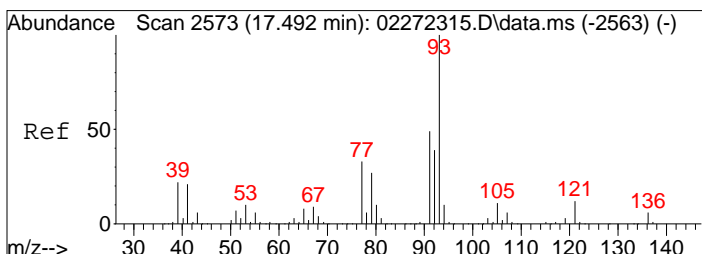
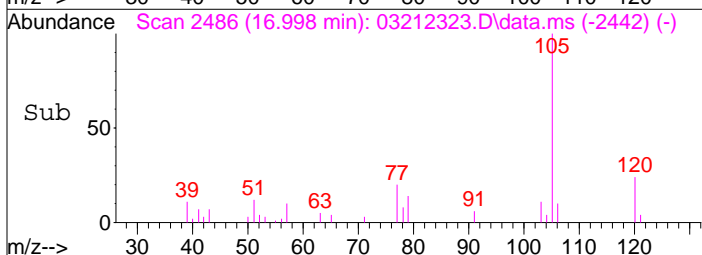
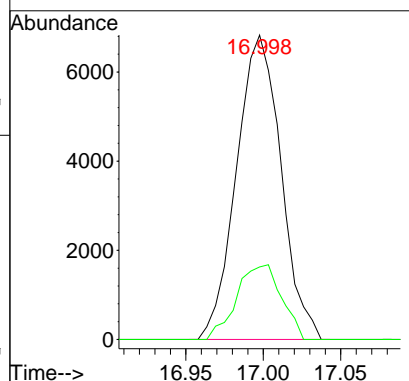
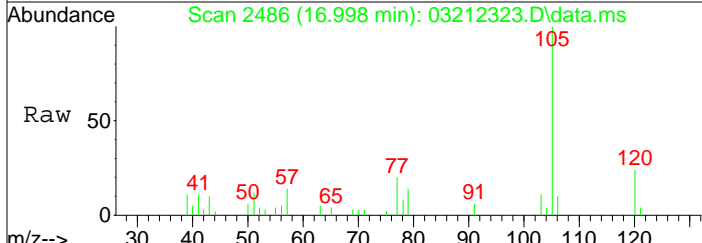
Tgt Ion	Resp	Lower	Upper
43	100		
57	75.2	56.2	96.2
85	25.0	6.1	46.1





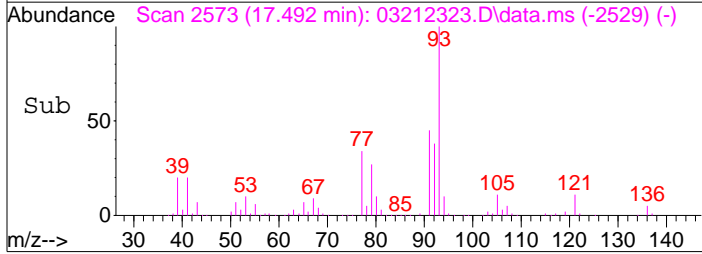
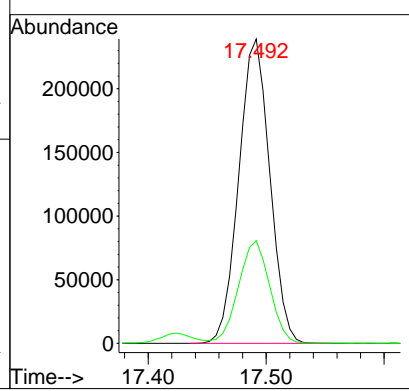
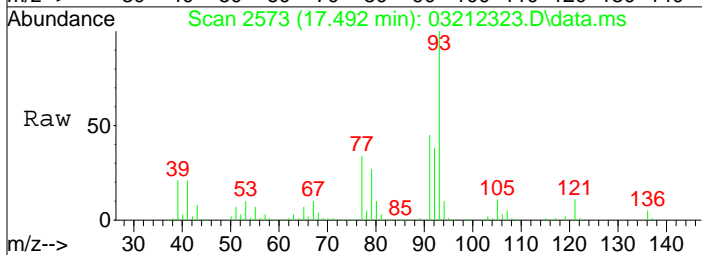
#74
 Cumene
 Concen: 0.17 ng
 RT: 17.00 min Scan# 2486
 Delta R.T. -0.000 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

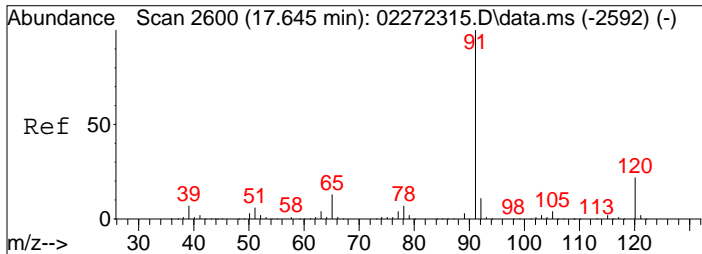
Tgt Ion	Resp	Lower	Upper
105	13623	100	
120	24.7	4.6	44.6



#75
 alpha-Pinene
 Concen: 13.00 ng
 RT: 17.49 min Scan# 2573
 Delta R.T. -0.000 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

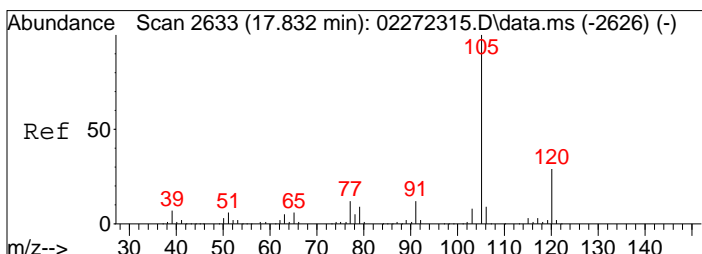
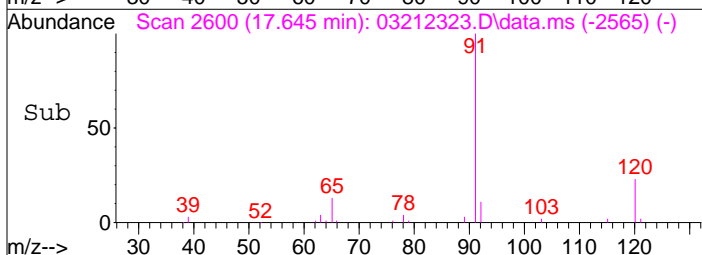
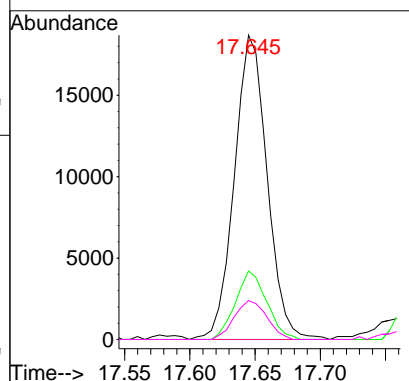
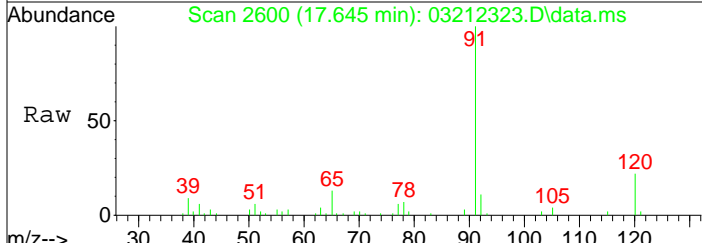
Tgt Ion	Resp	Lower	Upper
93	436122	100	
77	34.0	14.2	54.2





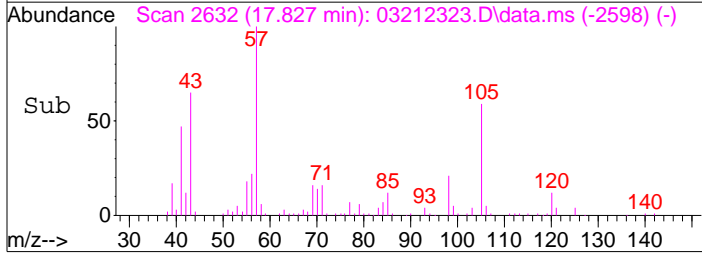
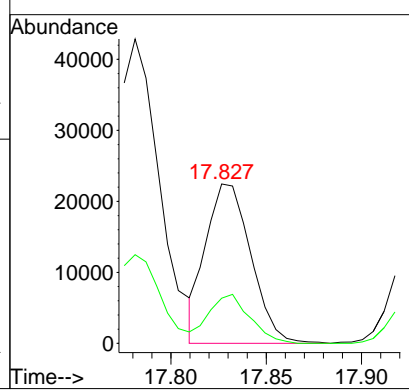
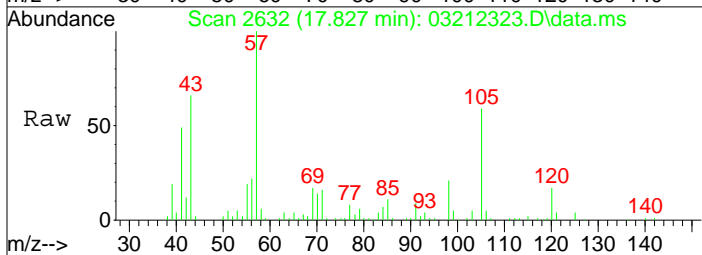
#76
 n-Propylbenzene
 Concen: 0.34 ng
 RT: 17.64 min Scan# 2600
 Delta R.T. -0.000 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

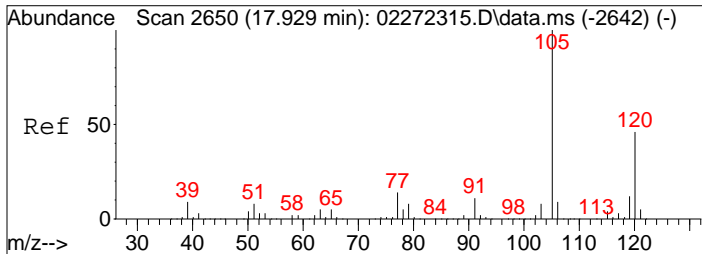
Tgt Ion:	Resp:	Lower	Upper
91	32661		
120	21.4	2.0	42.0
65	12.7	0.0	32.3



#78
 4-Ethyltoluene
 Concen: 0.49 ng
 RT: 17.83 min Scan# 2632
 Delta R.T. -0.006 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

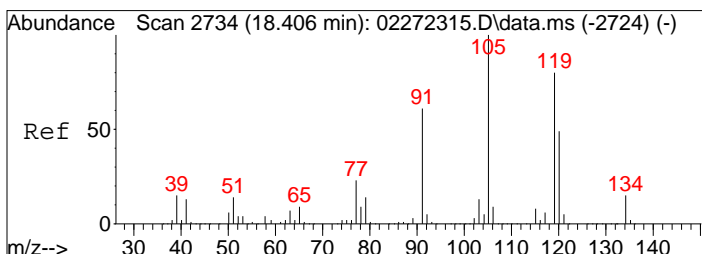
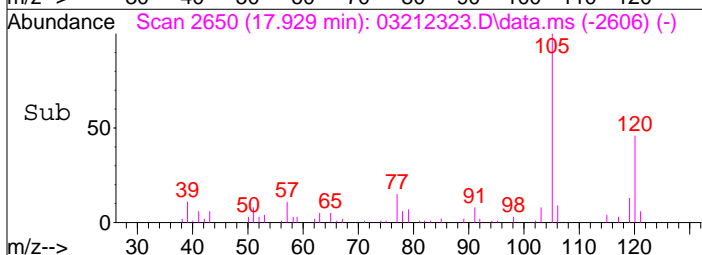
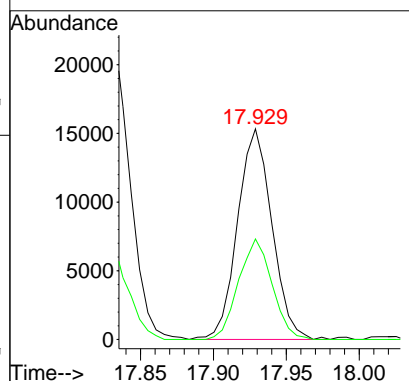
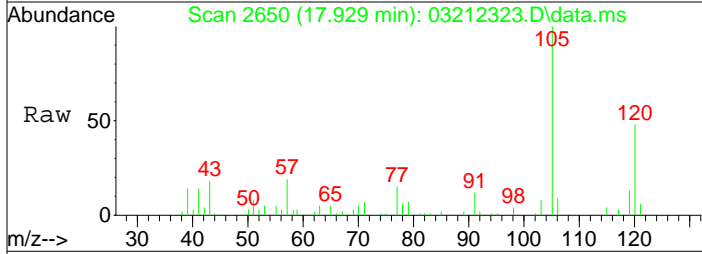
Tgt Ion:	Resp:	Lower	Upper
105	37026		
120	28.1	8.5	48.5





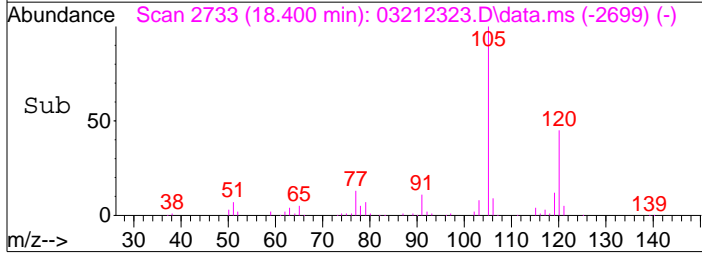
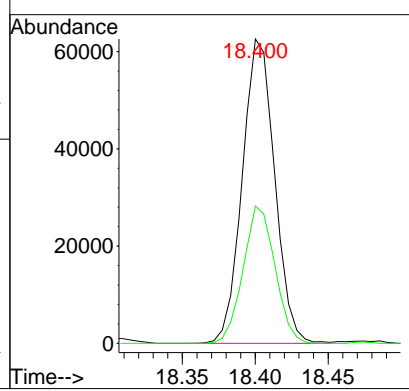
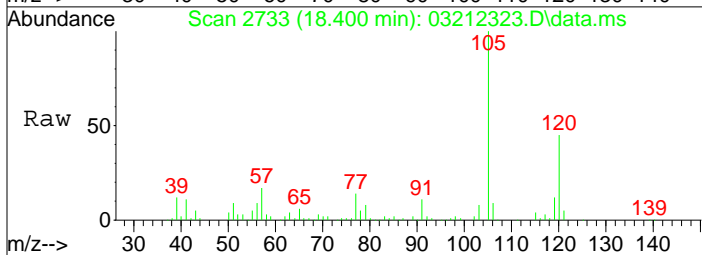
#79
 1,3,5-Trimethylbenzene
 Concen: 0.37 ng
 RT: 17.93 min Scan# 2650
 Delta R.T. -0.000 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

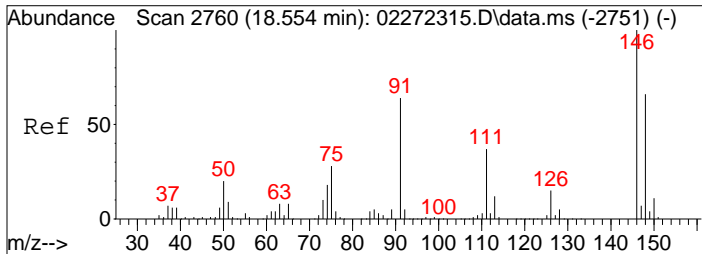
Tgt Ion	Resp	Lower	Upper
105	25183	100	100
120	46.4	25.5	65.5



#82
 1,2,4-Trimethylbenzene
 Concen: 1.41 ng
 RT: 18.40 min Scan# 2733
 Delta R.T. -0.006 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

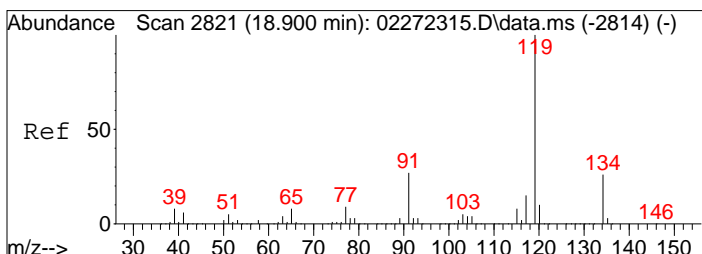
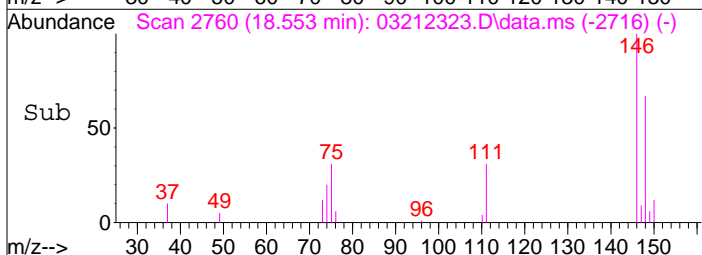
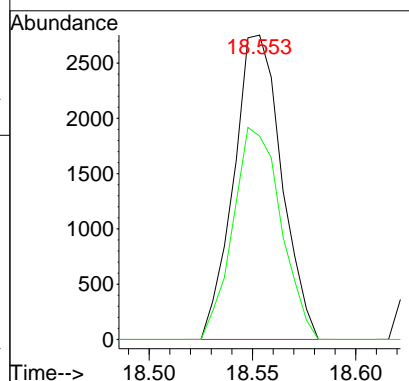
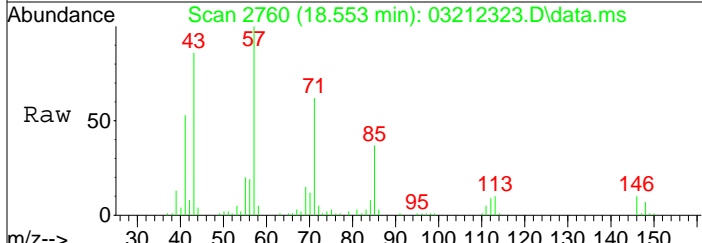
Tgt Ion	Resp	Lower	Upper
105	96666	100	100
120	44.3	30.5	70.5





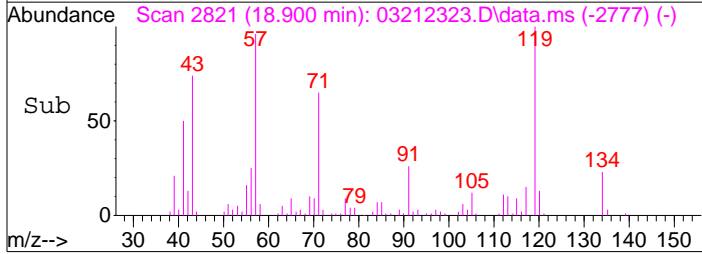
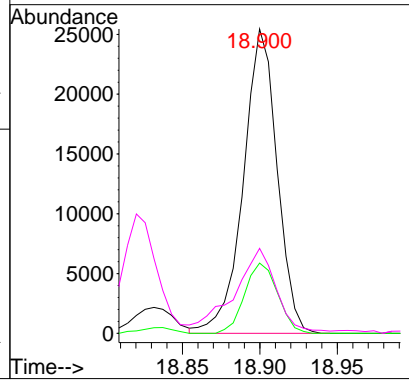
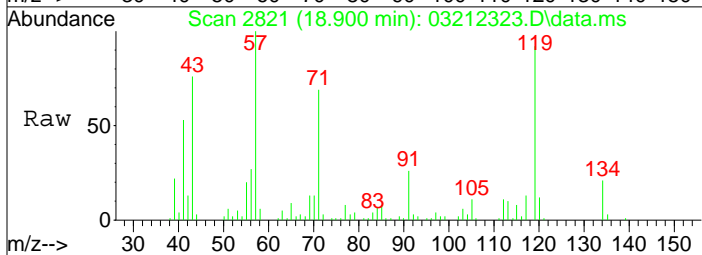
#85
 1,3-Dichlorobenzene
 Concen: 0.11 ng
 RT: 18.55 min Scan# 2760
 Delta R.T. -0.000 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

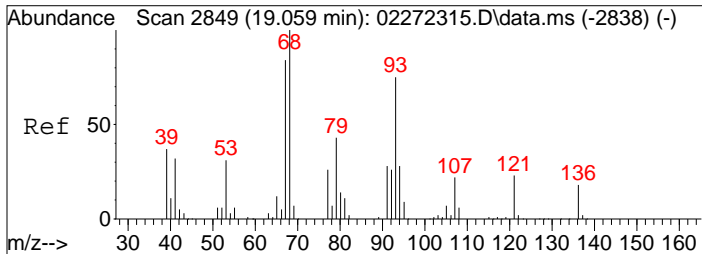
Tgt Ion	Resp	Lower	Upper
146	100		
148	69.7	46.0	86.0



#88
 4-Isopropyltoluene (p-Cymene)
 Concen: 0.49 ng
 RT: 18.90 min Scan# 2821
 Delta R.T. -0.000 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

Tgt Ion	Resp	Lower	Upper
119	100		
134	22.6	5.7	45.7
91	36.2	6.8	46.8

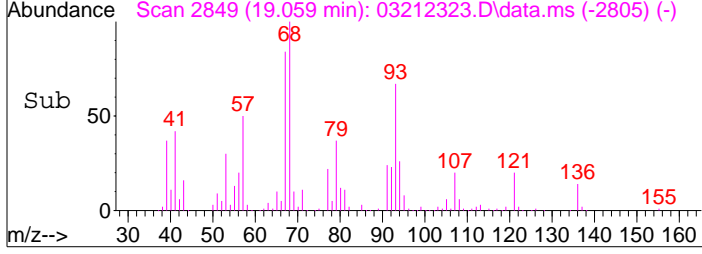
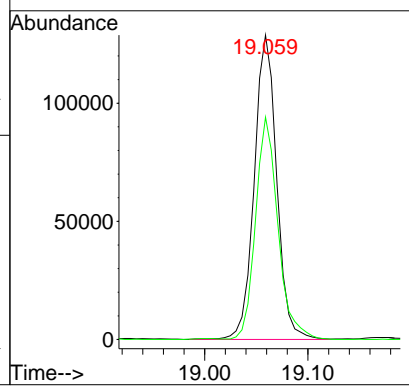
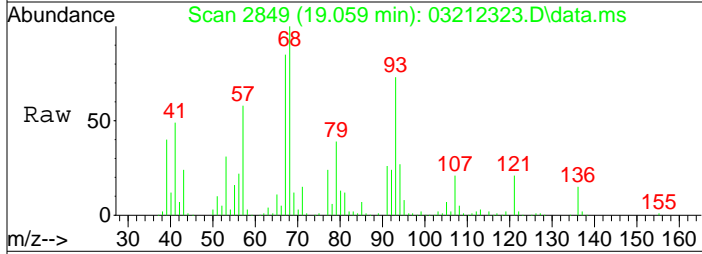




#91
 d-Limonene
 Concen: 8.46 ng
 RT: 19.06 min Scan# 2849
 Delta R.T. -0.000 min
 Lab File: 03212323.D
 Acq: 21 Mar 2023 18:23

Tgt Ion: 68 Resp: 194662

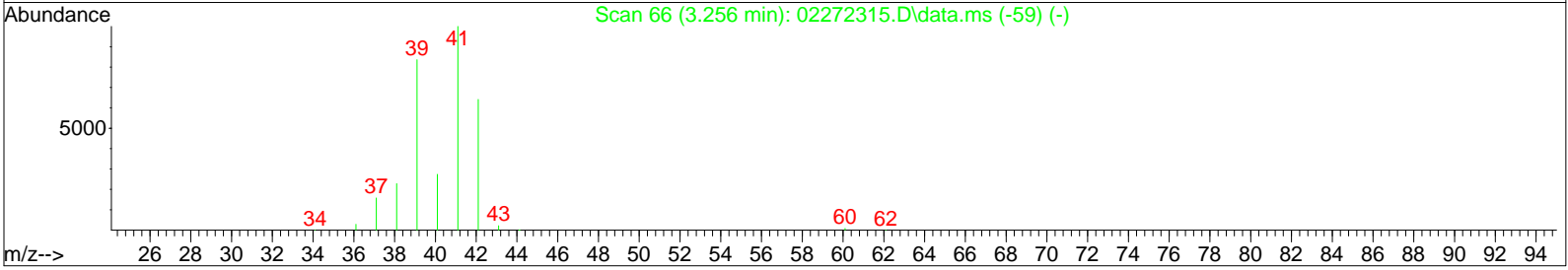
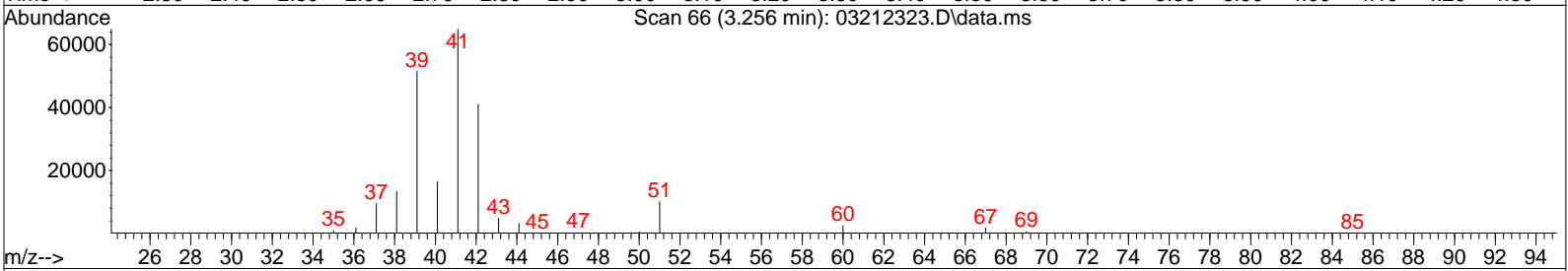
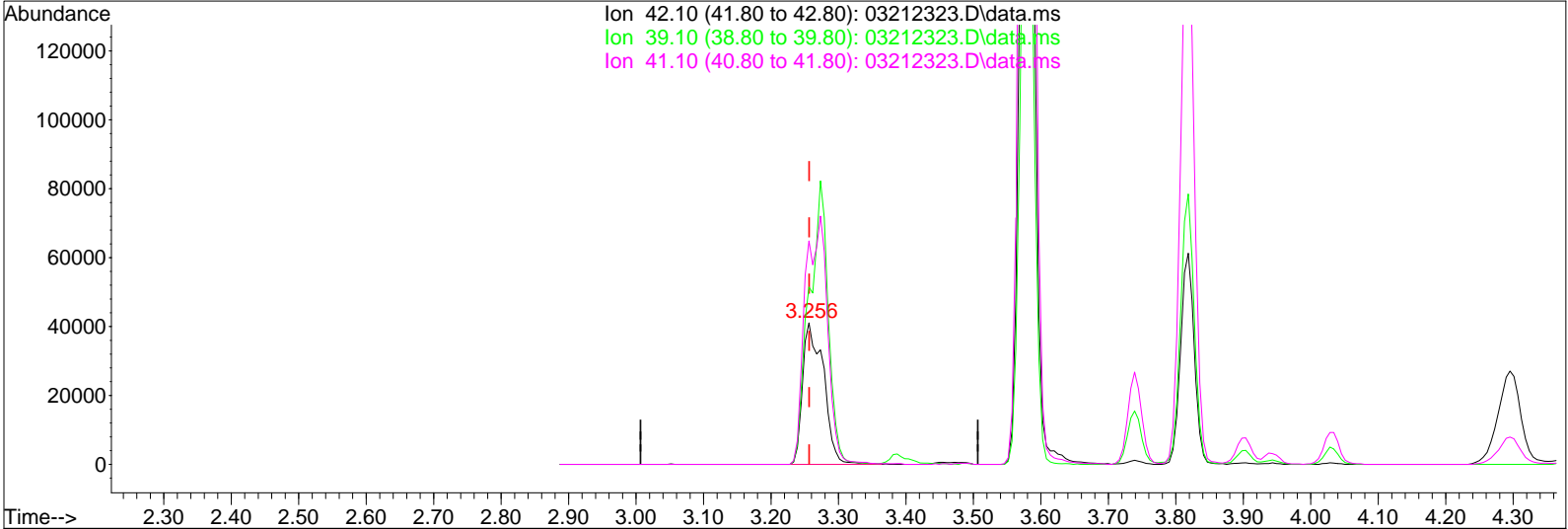
Ion	Ratio	Lower	Upper
68	100		
93	73.0	55.7	95.7



Data File : I:\MS09\DATA\2023 03\21\03212323.D
 Acq On : 21 Mar 2023 18:23
 Sample : P2301184-012 (1000ml)
 Misc : S35-02212305

Vial: 15
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 21 20:14:58 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



TIC: 03212323.D\data.ms

(2) Propene (T)

3.256min (-0.000) 3.93ng

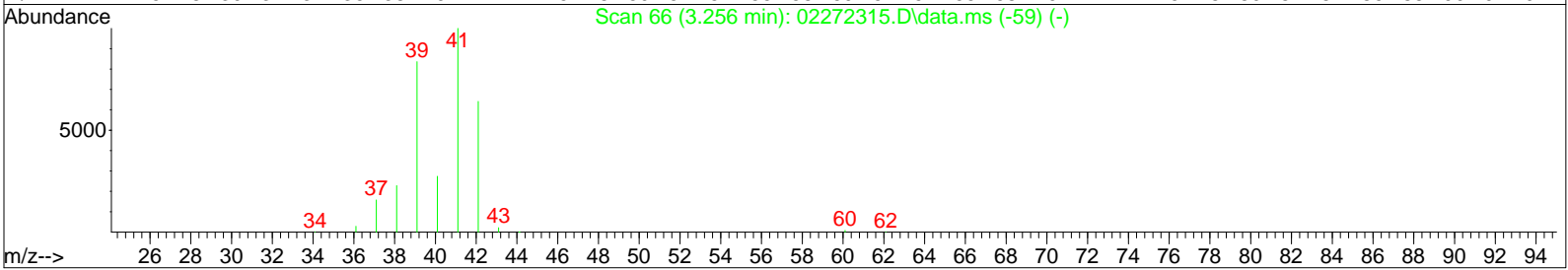
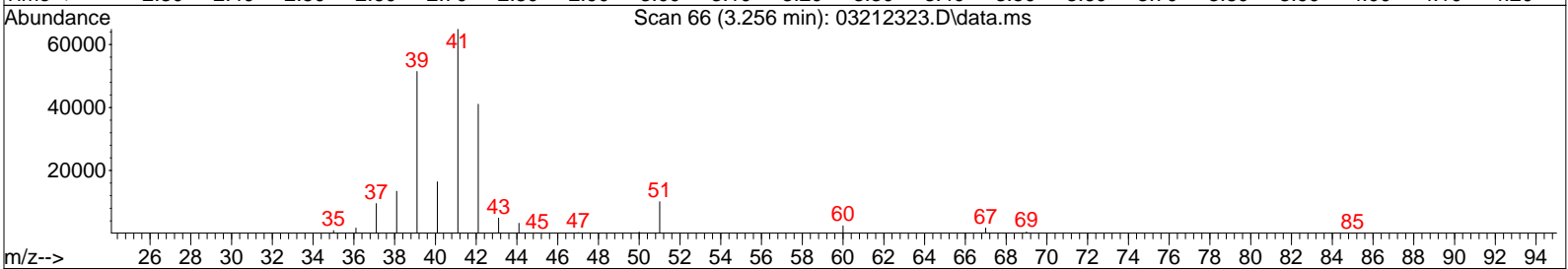
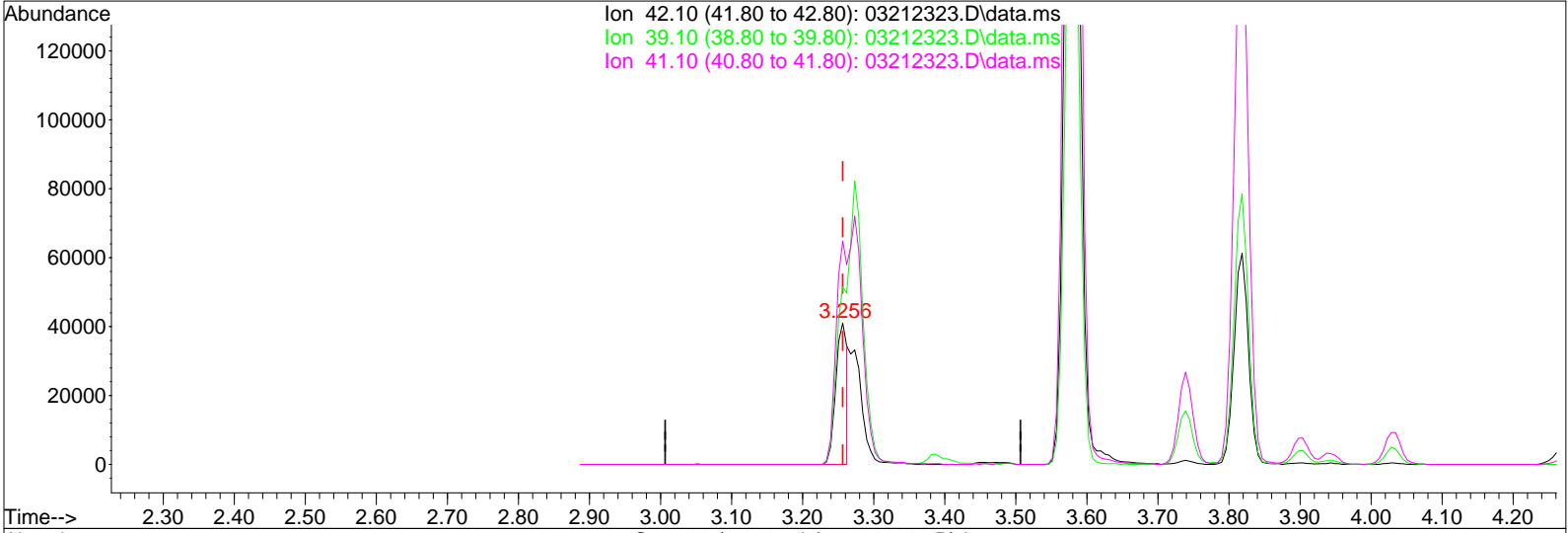
response 88287

Ion	Exp%	Act%
42.10	100	100
39.10	130.00	185.18#
41.10	155.80	188.56#
0.00	0.00	0.00

Data File : I:\MS09\DATA\2023 03\21\03212323.D
 Acq On : 21 Mar 2023 18:23
 Sample : P2301184-012 (1000ml)
 Misc : S35-02212305

Vial: 15
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 21 20:14:58 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



TIC: 03212323.D\data.ms

(2) Propene (T)

3.256min (-0.000) 2.04ng m

response 45889

IDA 3/22/23

Tz 3/22/23

Ion	Exp%	Act%
42.10	100	100
39.10	130.00	126.59
41.10	155.80	158.93
0.00	0.00	0.00

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: New York State DEC
Client Sample ID: Armonk-IA-Dup-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-013

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01667

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21 - 3/22/23
 Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -0.95 Final Pressure (psig): 3.43

Canister Dilution Factor: 1.32

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	6.1	0.70	3.5	0.41	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	0.70	0.45	0.14	
74-87-3	Chloromethane	0.64	0.28	0.31	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.69	ND	0.098	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.057	
106-99-0	1,3-Butadiene	ND	0.28	ND	0.13	
74-83-9	Bromomethane	ND	0.28	ND	0.071	
75-00-3	Chloroethane	ND	0.28	ND	0.11	
64-17-5	Ethanol	890	33	470	18	D
75-05-8	Acetonitrile	ND	1.3	ND	0.79	
107-02-8	Acrolein	ND	1.3	ND	0.58	
67-64-1	Acetone	26	7.0	11	2.9	
75-69-4	Trichlorofluoromethane (CFC 11)	1.8	0.69	0.31	0.12	
67-63-0	2-Propanol (Isopropyl Alcohol)	16	1.4	6.4	0.55	
107-13-1	Acrylonitrile	ND	1.3	ND	0.61	
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.037	
75-09-2	Methylene Chloride	ND	0.70	ND	0.20	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.70	ND	0.22	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.71	ND	0.093	
75-15-0	Carbon Disulfide	ND	1.4	ND	0.45	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.037	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.036	
1634-04-4	Methyl tert-Butyl Ether	ND	0.71	ND	0.20	
108-05-4	Vinyl Acetate	ND	6.6	ND	1.9	
78-93-3	2-Butanone (MEK)	2.5	1.4	0.84	0.47	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: New York State DEC
Client Sample ID: Armonk-IA-Dup-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-013

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01667

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21 - 3/22/23
 Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -0.95 Final Pressure (psig): 3.43

Canister Dilution Factor: 1.32

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.15	ND	0.037	
141-78-6	Ethyl Acetate	12	2.8	3.3	0.77	
110-54-3	n-Hexane	2.6	0.70	0.74	0.20	
67-66-3	Chloroform	1.3	0.15	0.26	0.030	
109-99-9	Tetrahydrofuran (THF)	1.2	0.66	0.41	0.22	
107-06-2	1,2-Dichloroethane	ND	0.15	ND	0.036	
71-55-6	1,1,1-Trichloroethane	ND	0.15	ND	0.027	
71-43-2	Benzene	1.0	0.15	0.32	0.045	
56-23-5	Carbon Tetrachloride	0.54	0.15	0.085	0.023	
110-82-7	Cyclohexane	ND	1.4	ND	0.40	
78-87-5	1,2-Dichloropropane	ND	0.15	ND	0.031	
75-27-4	Bromodichloromethane	0.22	0.15	0.033	0.022	
79-01-6	Trichloroethene	ND	0.15	ND	0.027	
123-91-1	1,4-Dioxane	ND	0.70	ND	0.19	
80-62-6	Methyl Methacrylate	ND	1.5	ND	0.35	
142-82-5	n-Heptane	ND	0.70	ND	0.17	
10061-01-5	cis-1,3-Dichloropropene	ND	0.71	ND	0.16	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.35	
10061-02-6	trans-1,3-Dichloropropene	ND	0.67	ND	0.15	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.027	
108-88-3	Toluene	10	0.70	2.7	0.19	
591-78-6	2-Hexanone	ND	1.5	ND	0.35	
124-48-1	Dibromochloromethane	ND	0.15	ND	0.017	
106-93-4	1,2-Dibromoethane	ND	0.15	ND	0.019	
123-86-4	n-Butyl Acetate	ND	1.3	ND	0.28	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3 of 3

Client: New York State DEC
Client Sample ID: Armonk-IA-Dup-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-013

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01667

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21 - 3/22/23
 Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -0.95 Final Pressure (psig): 3.43

Canister Dilution Factor: 1.32

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	0.90	0.71	0.19	0.15	
127-18-4	Tetrachloroethene	ND	0.15	ND	0.021	
108-90-7	Chlorobenzene	ND	0.70	ND	0.15	
100-41-4	Ethylbenzene	0.78	0.70	0.18	0.16	
179601-23-1	m,p-Xylenes	2.4	1.5	0.54	0.33	
75-25-2	Bromoform	ND	0.71	ND	0.069	
100-42-5	Styrene	ND	0.70	ND	0.16	
95-47-6	o-Xylene	0.92	0.70	0.21	0.16	
111-84-2	n-Nonane	1.7	0.70	0.33	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.021	
98-82-8	Cumene	ND	0.71	ND	0.15	
80-56-8	alpha-Pinene	9.3	1.5	1.7	0.26	
103-65-1	n-Propylbenzene	ND	0.71	ND	0.15	
622-96-8	4-Ethyltoluene	ND	0.73	ND	0.15	
108-67-8	1,3,5-Trimethylbenzene	ND	0.70	ND	0.14	
95-63-6	1,2,4-Trimethylbenzene	ND	0.70	ND	0.14	
100-44-7	Benzyl Chloride	ND	2.8	ND	0.54	
541-73-1	1,3-Dichlorobenzene	ND	0.70	ND	0.12	
106-46-7	1,4-Dichlorobenzene	ND	0.70	ND	0.12	
95-50-1	1,2-Dichlorobenzene	ND	0.71	ND	0.12	
5989-27-5	d-Limonene	22	1.5	3.9	0.26	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.5	ND	0.15	
120-82-1	1,2,4-Trichlorobenzene	ND	1.5	ND	0.20	
91-20-3	Naphthalene	ND	0.73	ND	0.14	
87-68-3	Hexachlorobutadiene	ND	0.70	ND	0.066	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Data File : I:\MS09\DATA\2023 03\21\03212324.D
 Acq On : 21 Mar 2023 18:55
 Sample : P2301184-013 (1000ml)
 Misc : S35-02212305

Vial: 16
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 22 05:04:29 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

407 3/22/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	7.21	130	167765	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	9.27	114	746360	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.81	54	172620	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	7.97	65	361243	12.719	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery	=	101.76%	
57) Toluene-d8 (SS2)	12.39	98	886185	13.511	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	108.08%	
73) Bromofluorobenzene (SS3)	16.79	174	274781	10.274	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	82.16%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.25	42	102641	4.600	ng	88
3) Dichlorodifluoromethan...	3.33	85	64652	1.669	ng	98
4) Chloromethane	3.48	50	11733	0.482	ng	95
5) 1,2-Dichloro-1,1,2,2-t...	3.59	135	1274	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	3.78	54	1244	0.092	ng	# 1
8) Bromomethane	4.01	94	338	N.D.		
9) Chloroethane	4.13	64	125	N.D.		
10) Ethanol	4.38	45	9350291	587.326	ng	99
11) Acetonitrile	0.00	41	0	N.D.	d	
12) Acrolein	4.51	56	7676	0.723	ng	99
13) Acetone	4.61	58	238691	19.785	ng	# 82
14) Trichlorofluoromethane	4.73	101	51428	1.332	ng	99
15) 2-Propanol (Isopropanol)	4.91	45	559264m	11.874	ng	
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	5.33	84	5325	0.334	ng	100
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	5.56	151	4990	0.286	ng	# 69
22) Carbon Disulfide	5.57	76	9507	0.164	ng	100
23) trans-1,2-Dichloroethene	6.11	61	309	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	6.37	73	722	N.D.		
26) Vinyl Acetate	6.41	86	8394	3.590	ng	# 1
27) 2-Butanone (MEK)	6.65	72	18022	1.874	ng	# 87
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	7.25	61	67414	9.119	ng	98
31) n-Hexane	7.27	57	60744	1.979	ng	96
32) Chloroform	7.33	83	32692	0.970	ng	98
34) Tetrahydrofuran (THF)	7.75	72	8744	0.908	ng	# 69
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.09	62	2115	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	9.27	61	24418	No Calib	#	
40) 1-Butanol	8.81	56	26060	No Calib	#	
41) Benzene	8.87	78	49039	0.770	ng	100
42) Carbon Tetrachloride	9.03	117	11439	0.407	ng	98
43) Cyclohexane	9.18	84	10400	0.439	ng	98
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	9.82	63	1075	N.D.		
46) Bromodichloromethane	10.05	83	4468	0.169	ng	91
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	10.14	88	130	N.D.		
49) 2,2,4-Trimethylpentane...	10.20	57	35982	0.462	ng	97
50) Methyl Methacrylate	10.37	100	128	N.D.		

Data File : I:\MS09\DATA\2023 03\21\03212324.D
 Acq On : 21 Mar 2023 18:55
 Sample : P2301184-013 (1000ml)
 Misc : S35-02212305

Vial: 16
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 22 05:04:29 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

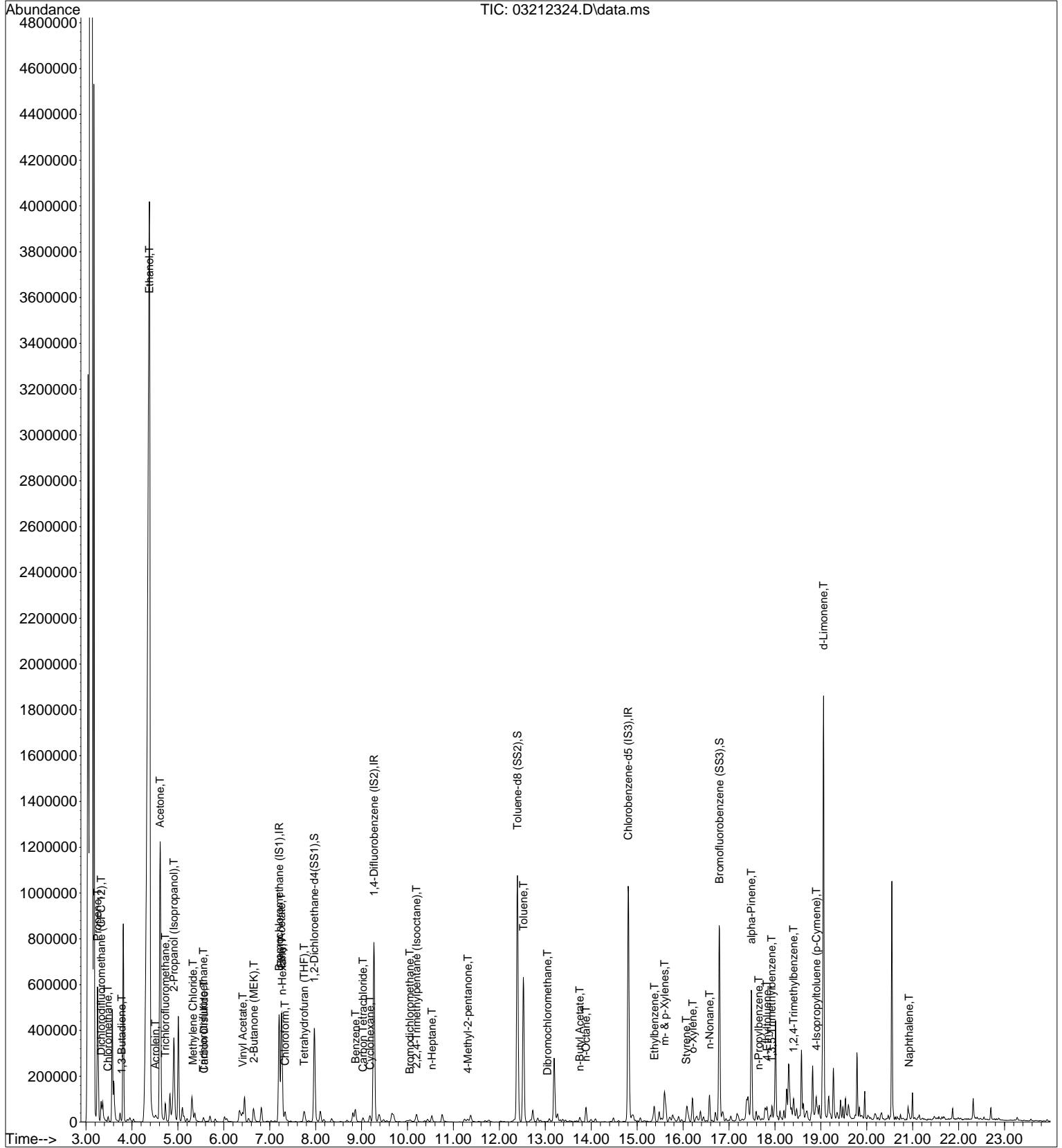
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
51) n-Heptane	10.53	71	6717	0.423	ng	96
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.31	58	3401	0.218	ng #	49
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.52	91	540202	7.735	ng	97
59) 2-Hexanone	0.00	43	0	N.D.	d	
60) Dibromochloromethane	13.05	129	2156	0.101	ng	93
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.75	43	20638	0.423	ng	95
63) n-Octane	13.89	57	10387	0.682	ng	92
64) Tetrachloroethene	13.99	166	1760	N.D.		
65) Chlorobenzene	14.87	112	1232	N.D.		
66) Ethylbenzene	15.37	91	47415	0.592	ng	100
67) m- & p-Xylenes	15.60	91	117176	1.783	ng	96
68) Bromoform	15.65	173	520	N.D.		
69) Styrene	16.07	104	10821	0.261	ng	95
70) o-Xylene	16.21	91	44969	0.694	ng	100
71) n-Nonane	16.58	43	54124	1.324	ng	99
72) 1,1,2,2-Tetrachloroethane	16.20	83	1234	N.D.		
74) Cumene	17.00	105	4618	N.D.		
75) alpha-Pinene	17.49	93	237610	7.062	ng	99
76) n-Propylbenzene	17.65	91	11380	0.119	ng	92
77) 3-Ethyltoluene	17.00	105	4618	No Calib		
78) 4-Ethyltoluene	17.83	105	11519	0.153	ng	99
79) 1,3,5-Trimethylbenzene	17.93	105	8552	0.126	ng	96
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.00	105	4618	No Calib		
82) 1,2,4-Trimethylbenzene	18.41	105	31911	0.463	ng	89
83) n-Decane	17.04	58	418	No Calib	#	
84) Benzyl Chloride	18.53	91	583	N.D.		
85) 1,3-Dichlorobenzene	18.55	146	376	N.D.		
86) 1,4-Dichlorobenzene	18.63	146	1548	N.D.		
87) sec-Butylbenzene	18.71	105	1753	N.D.		
88) 4-Isopropyltoluene (p-...	18.90	119	38975	0.497	ng	95
89) 1,2,3-Trimethylbenzene	17.00	105	4618	No Calib		
90) 1,2-Dichlorobenzene	19.01	146	196	N.D.		
91) d-Limonene	19.06	68	379308	16.440	ng	97
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.08	58	2606	No Calib	#	
94) 1,2,4-Trichlorobenzene	20.82	180	518	N.D.		
95) Naphthalene	20.92	128	7551	0.124	ng	99
96) n-Dodecane	19.04	58	11798	No Calib	#	
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	15.21	55	1178	No Calib	#	
99) tert-Butylbenzene	18.40	119	3905	N.D.		
100) n-Butylbenzene	19.36	91	4777	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\21\03212324.D
 Acq On : 21 Mar 2023 18:55
 Sample : P2301184-013 (1000ml)
 Misc : S35-02212305

Vial: 16
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 22 05:04:29 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2023 03\21\03212324.D
 Acq On : 21 Mar 2023 18:55
 Sample : P2301184-013 (1000ml)
 Misc : S35-02212305

Vial: 16
 Operator: WA/SR
 Inst : MS09

107 3/22/23

Quant Time: Mar 22 05:04:29 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	7.21	130	167765	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	9.27	114	746360	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.81	54	172620	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.97	65	361243	12.719	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery	=	101.76%	
57) Toluene-d8 (SS2)	12.39	98	886185	13.511	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	108.08%	
73) Bromofluorobenzene (SS3)	16.79	174	274781	10.274	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	82.16%	

Target Compounds

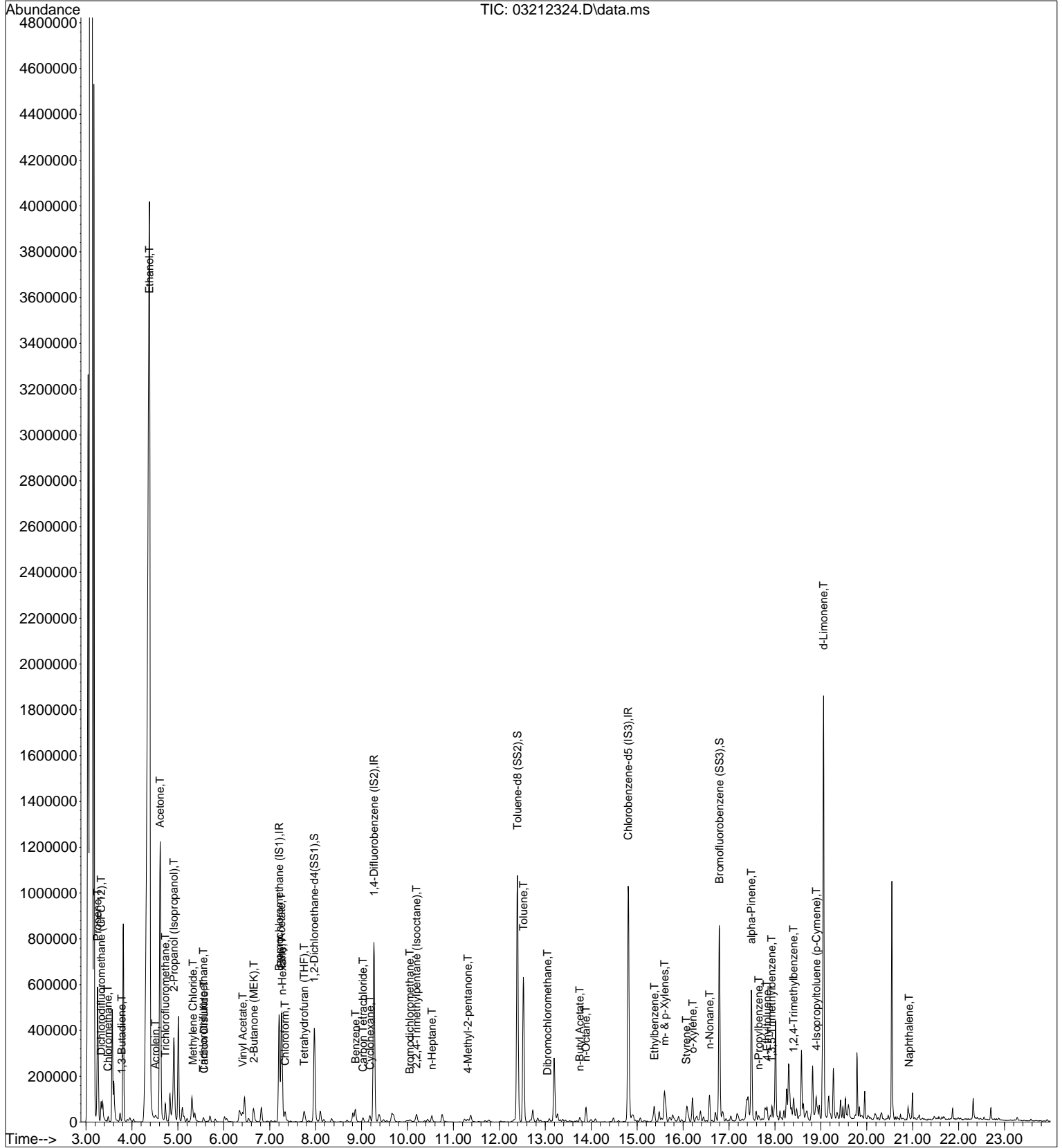
	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.25	42	102641	4.600	ng	88
3) Dichlorodifluoromethan...	3.33	85	64652	1.669	ng	98
4) Chloromethane	3.48	50	11733	0.482	ng	95
7) 1,3-Butadiene	3.78	54	1244	0.092	ng	# 1
10) Ethanol	4.38	45	9350291	587.326	ng	99
12) Acrolein	4.51	56	7676	0.723	ng	99
13) Acetone	4.61	58	238691	19.785	ng	# 82
14) Trichlorofluoromethane	4.73	101	51428	1.332	ng	99
15) 2-Propanol (Isopropanol)	4.91	45	559264m	11.874	ng	
19) Methylene Chloride	5.33	84	5325	0.334	ng	100
21) Trichlorotrifluoroethane	5.56	151	4990	0.286	ng	# 69
22) Carbon Disulfide	5.57	76	9507	0.164	ng	100
26) Vinyl Acetate	6.41	86	8394	3.590	ng	# 1
27) 2-Butanone (MEK)	6.65	72	18022	1.874	ng	# 87
30) Ethyl Acetate	7.25	61	67414	9.119	ng	98
31) n-Hexane	7.27	57	60744	1.979	ng	96
32) Chloroform	7.33	83	32692	0.970	ng	98
34) Tetrahydrofuran (THF)	7.75	72	8744	0.908	ng	# 69
41) Benzene	8.87	78	49039	0.770	ng	100
42) Carbon Tetrachloride	9.03	117	11439	0.407	ng	98
43) Cyclohexane	9.18	84	10400	0.439	ng	98
46) Bromodichloromethane	10.05	83	4468	0.169	ng	91
49) 2,2,4-Trimethylpentane...	10.20	57	35982	0.462	ng	97
51) n-Heptane	10.53	71	6717	0.423	ng	96
53) 4-Methyl-2-pentanone	11.31	58	3401	0.218	ng	# 49
58) Toluene	12.52	91	540202	7.735	ng	97
60) Dibromochloromethane	13.05	129	2156	0.101	ng	93
62) n-Butyl Acetate	13.75	43	20638	0.423	ng	95
63) n-Octane	13.89	57	10387	0.682	ng	92
66) Ethylbenzene	15.37	91	47415	0.592	ng	100
67) m- & p-Xylenes	15.60	91	117176	1.783	ng	96
69) Styrene	16.07	104	10821	0.261	ng	95
70) o-Xylene	16.21	91	44969	0.694	ng	100
71) n-Nonane	16.58	43	54124	1.324	ng	99
75) alpha-Pinene	17.49	93	237610	7.062	ng	99
76) n-Propylbenzene	17.65	91	11380	0.119	ng	92
78) 4-Ethyltoluene	17.83	105	11519	0.153	ng	99
79) 1,3,5-Trimethylbenzene	17.93	105	8552	0.126	ng	96
82) 1,2,4-Trimethylbenzene	18.41	105	31911	0.463	ng	89
88) 4-Isopropyltoluene (p-...	18.90	119	38975	0.497	ng	95
91) d-Limonene	19.06	68	379308	16.440	ng	97
95) Naphthalene	20.92	128	7551	0.124	ng	99

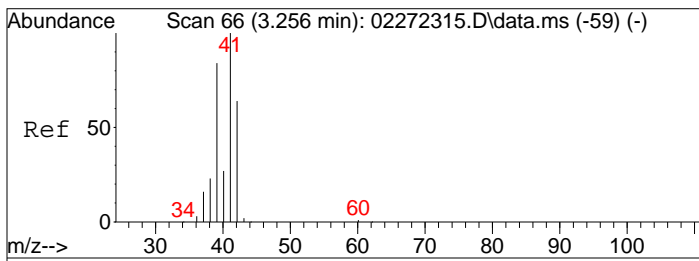
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS09\DATA\2023 03\21\03212324.D
Acq On : 21 Mar 2023 18:55
Sample : P2301184-013 (1000ml)
Misc : S35-02212305

Vial: 16
Operator: WA/SR
Inst : MS09

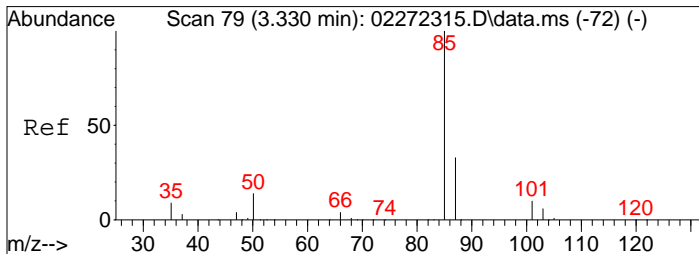
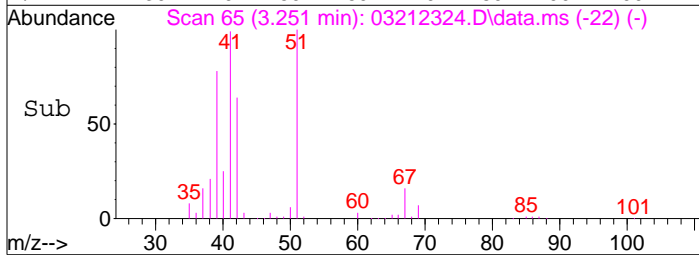
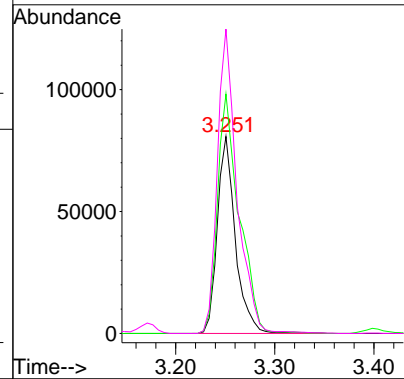
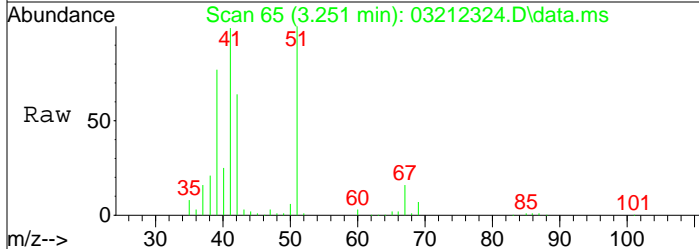
Quant Time: Mar 22 05:04:29 2023
Quant Method : I:\MS09\METHODS\R9022723.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Feb 28 08:30:18 2023
Response via : Initial Calibration
DataAcq Meth:TO15.M





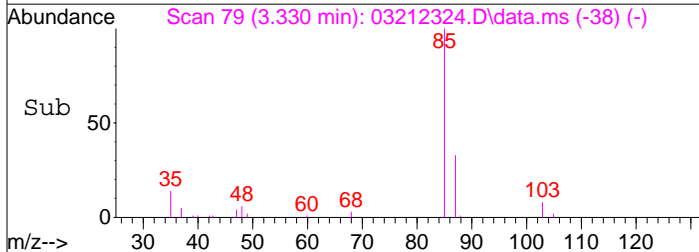
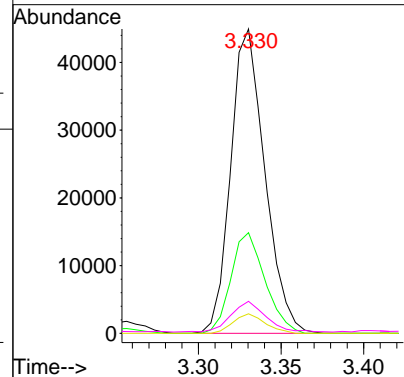
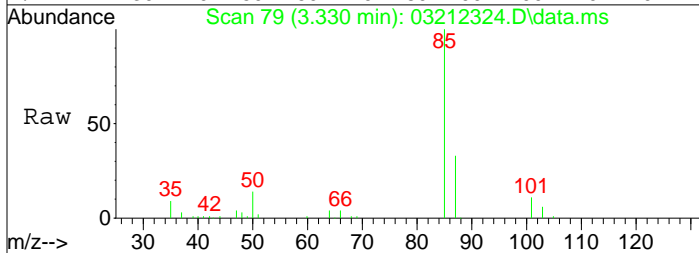
#2
 Propene
 Concen: 4.60 ng
 RT: 3.25 min Scan# 65
 Delta R.T. -0.006 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

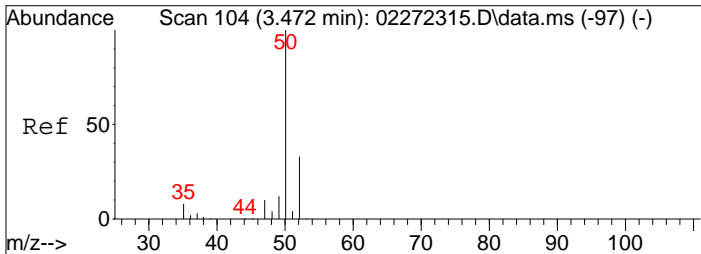
Tgt Ion:	42	Resp:	102641
Ion Ratio	Lower	Upper	
42	100		
39	146.4	110.0	150.0
41	168.4	135.8	175.8



#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 1.67 ng
 RT: 3.33 min Scan# 79
 Delta R.T. -0.020 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

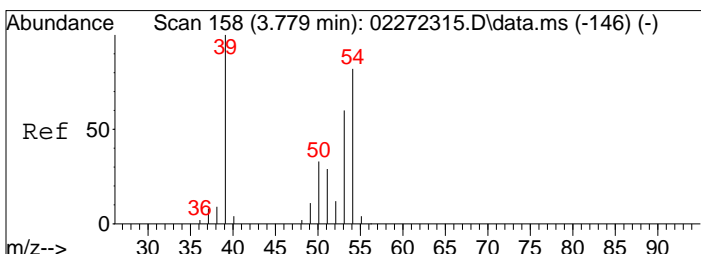
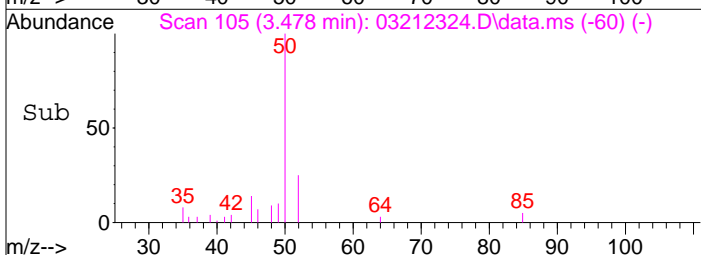
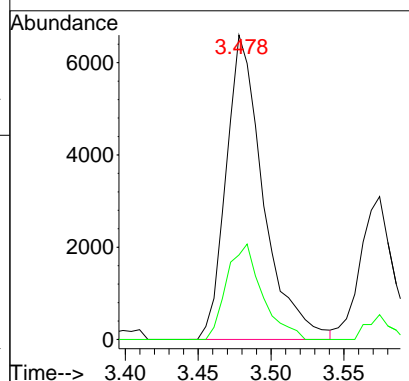
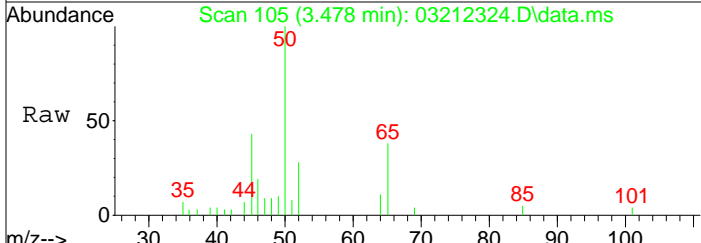
Tgt Ion:	85	Resp:	64652
Ion Ratio	Lower	Upper	
85	100		
87	33.0	12.3	52.3
101	10.9	0.0	29.7
103	6.0	0.0	26.3





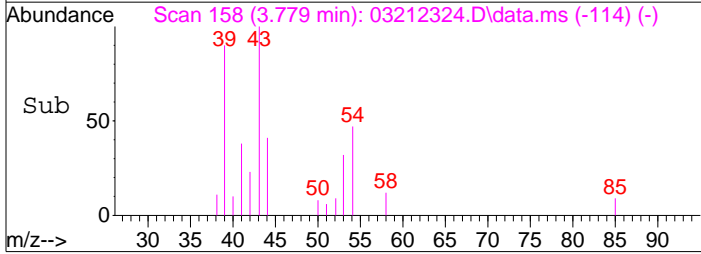
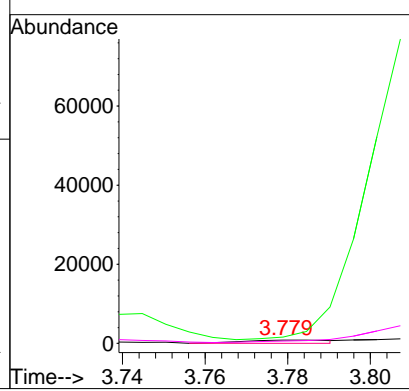
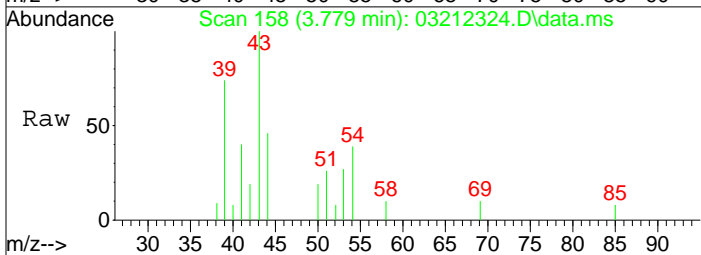
#4
 Chloromethane
 Concen: 0.48 ng
 RT: 3.48 min Scan# 105
 Delta R.T. 0.006 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

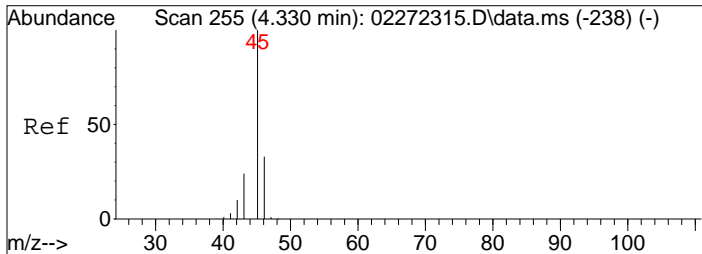
Tgt Ion	Resp	Lower	Upper
50	11733		
52	30.0	12.8	52.8



#7
 1,3-Butadiene
 Concen: 0.09 ng
 RT: 3.78 min Scan# 158
 Delta R.T. 0.000 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

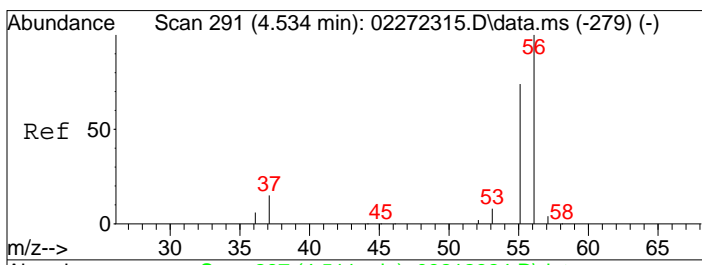
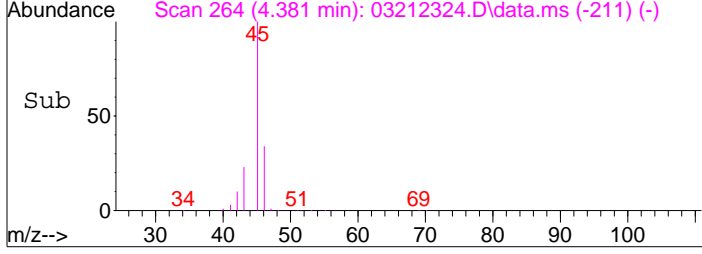
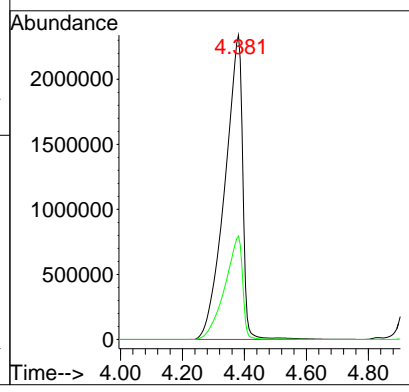
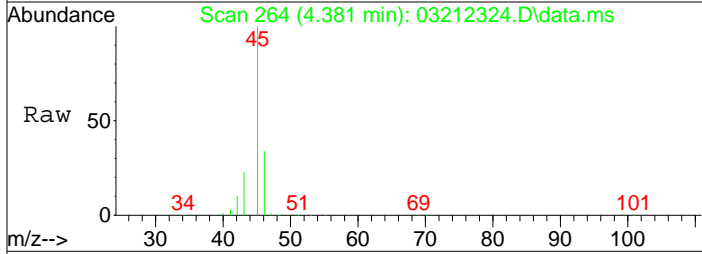
Tgt Ion	Resp	Lower	Upper
54	1244		
39	0.0	100.5	140.5#
53	0.0	55.4	95.4#





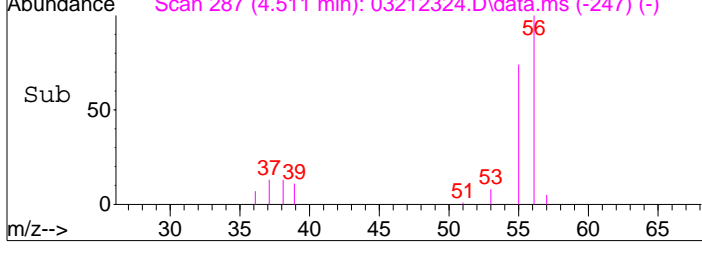
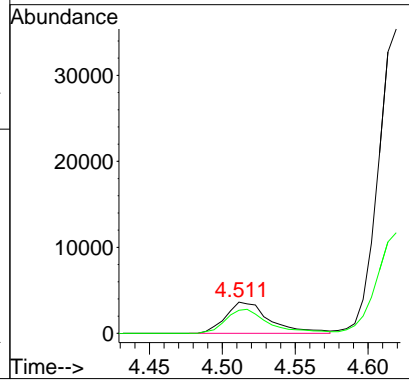
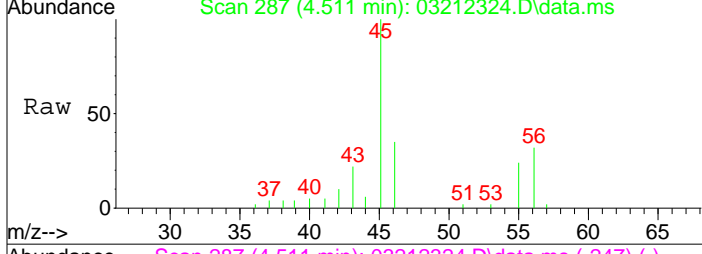
#10
 Ethanol
 Concen: 587.33 ng
 RT: 4.38 min Scan# 264
 Delta R.T. 0.051 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

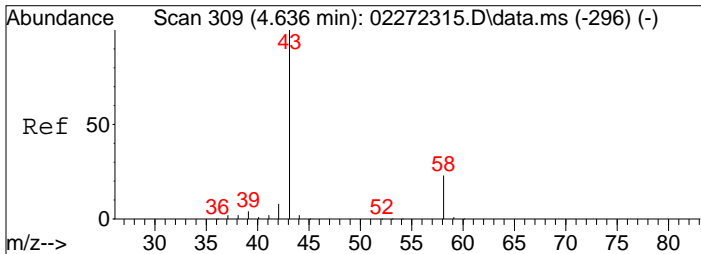
Tgt Ion: 45 Resp: 9350291
 Ion Ratio Lower Upper
 45 100
 46 34.0 13.4 53.4



#12
 Acrolein
 Concen: 0.72 ng
 RT: 4.51 min Scan# 287
 Delta R.T. -0.023 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

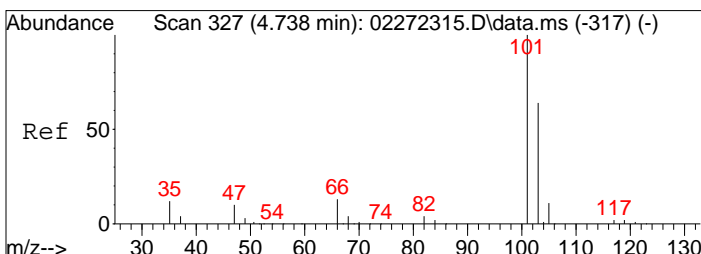
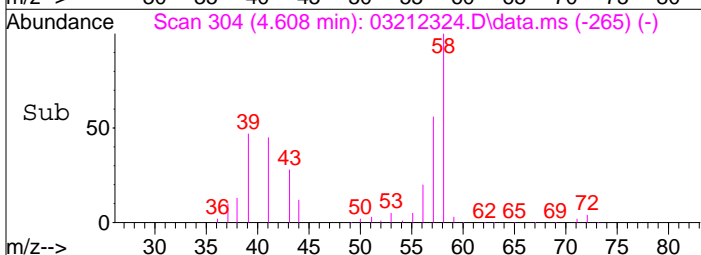
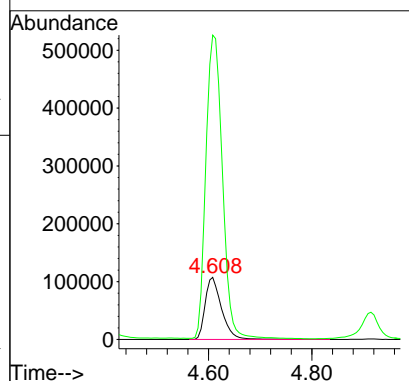
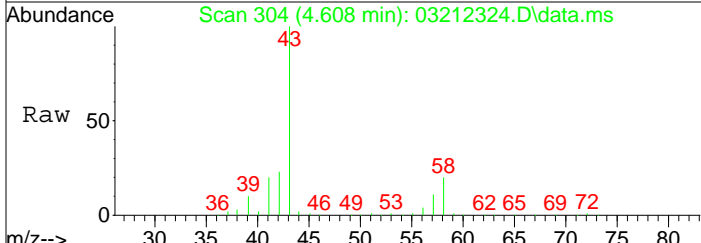
Tgt Ion: 56 Resp: 7676
 Ion Ratio Lower Upper
 56 100
 55 75.2 56.4 96.4





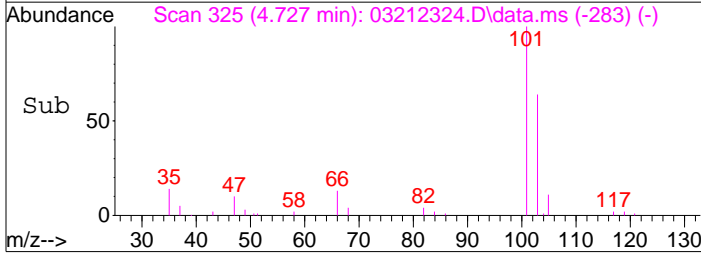
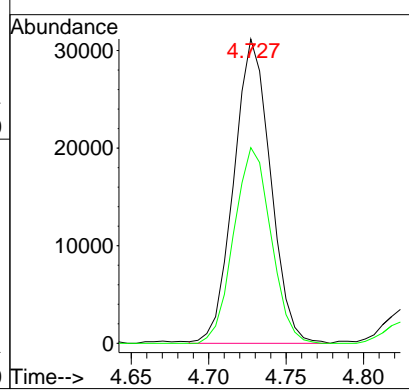
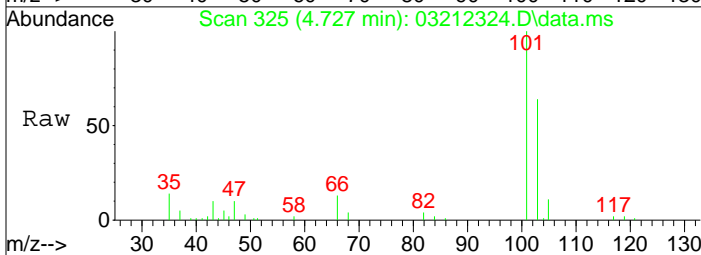
#13
 Acetone
 Concen: 19.79 ng
 RT: 4.61 min Scan# 304
 Delta R.T. -0.028 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

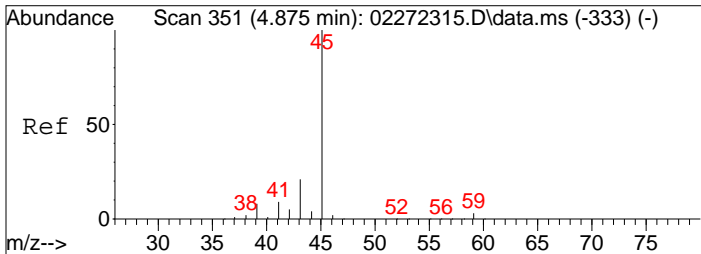
Tgt Ion	Resp	Lower	Upper
58	100		
43	489.9	414.4	474.4#



#14
 Trichlorofluoromethane
 Concen: 1.33 ng
 RT: 4.73 min Scan# 325
 Delta R.T. -0.011 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

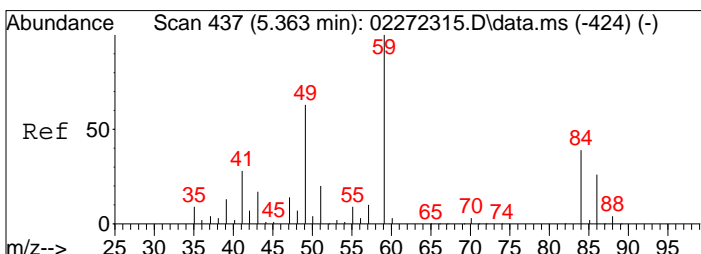
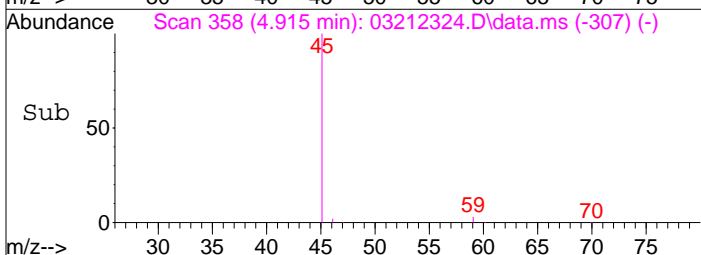
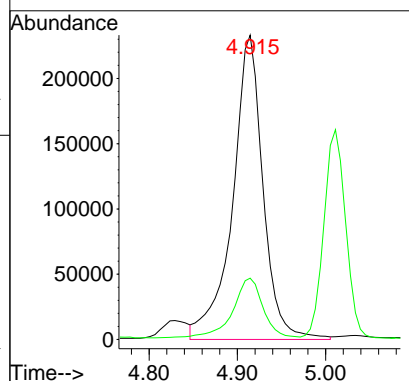
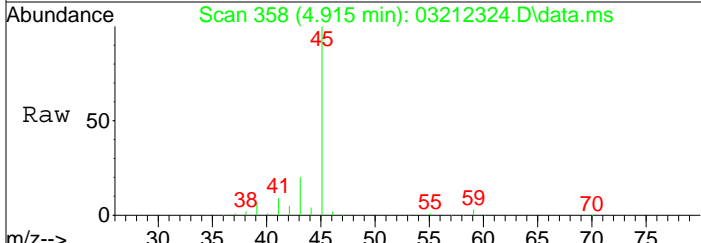
Tgt Ion	Resp	Lower	Upper
101	100		
103	65.0	44.0	84.0





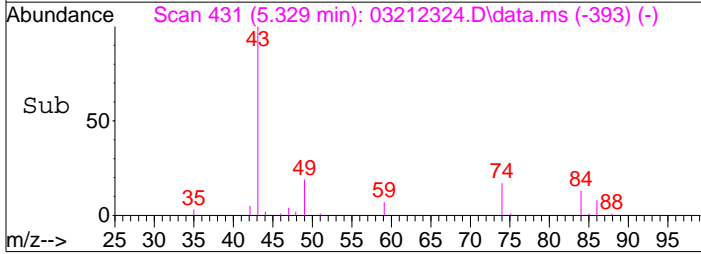
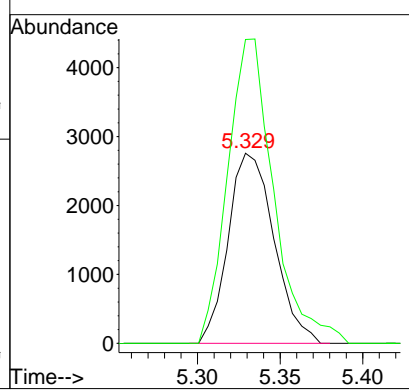
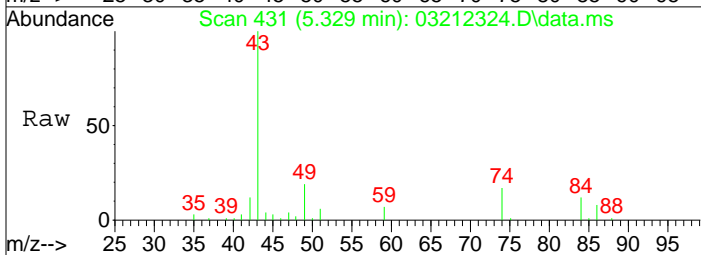
#15
 2-Propanol (Isopropanol)
 Concen: 11.87 ng m
 RT: 4.91 min Scan# 358
 Delta R.T. 0.040 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

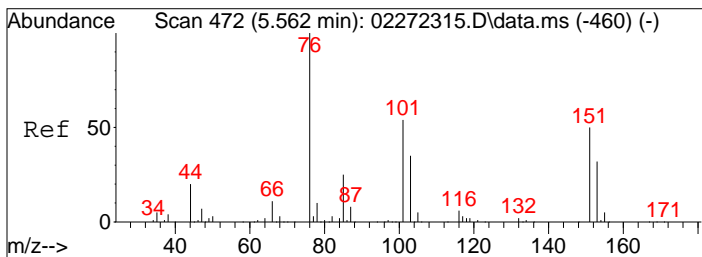
Tgt Ion	Resp	Lower	Upper
45	100		
43	19.6	1.6	41.6



#19
 Methylene Chloride
 Concen: 0.33 ng
 RT: 5.33 min Scan# 431
 Delta R.T. -0.034 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

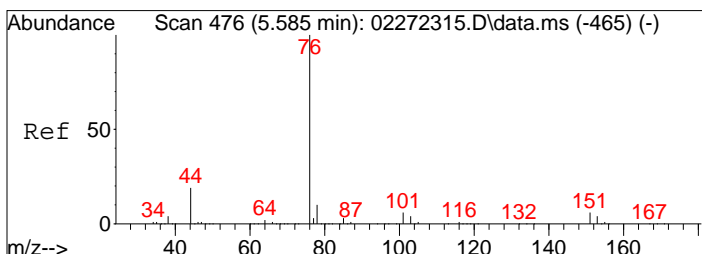
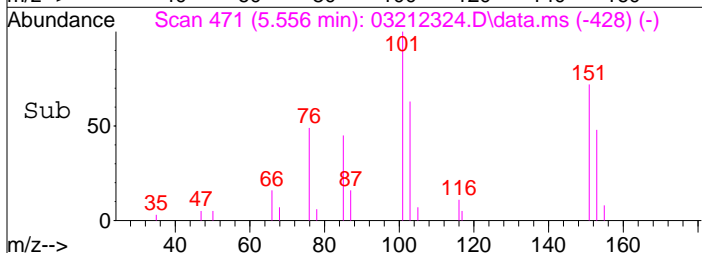
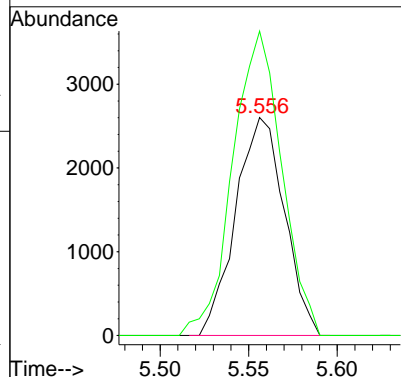
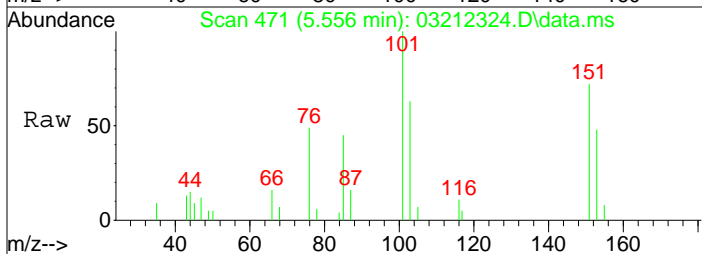
Tgt Ion	Resp	Lower	Upper
84	100		
49	160.7	136.0	186.0





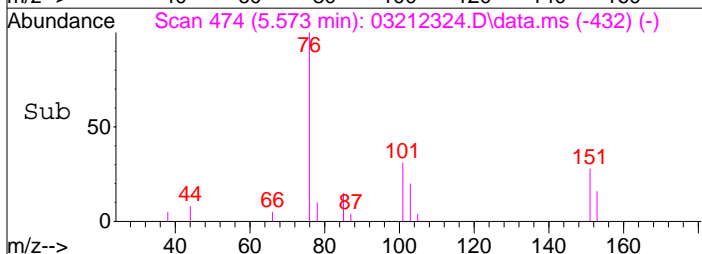
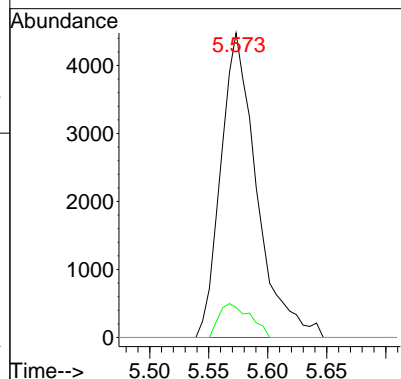
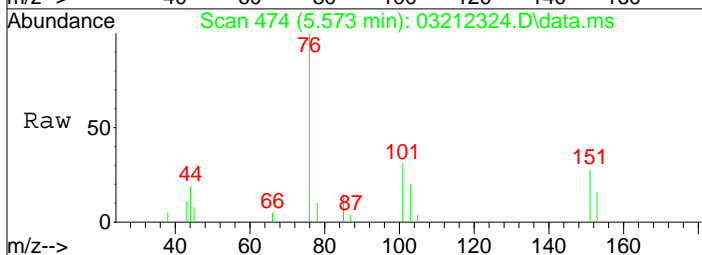
#21
 Trichlorotrifluoroethane
 Concen: 0.29 ng
 RT: 5.56 min Scan# 471
 Delta R.T. -0.006 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

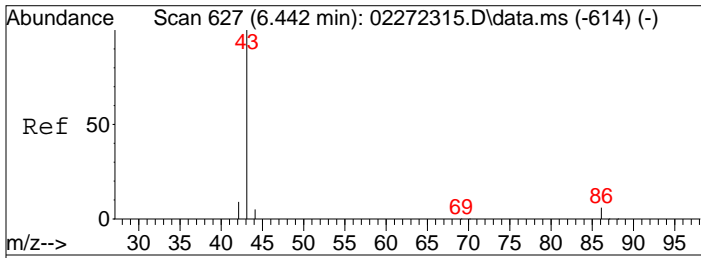
Tgt Ion: 151 Resp: 4990
 Ion Ratio Lower Upper
 151 100
 101 140.2 88.2 128.2#



#22
 Carbon Disulfide
 Concen: 0.16 ng
 RT: 5.57 min Scan# 474
 Delta R.T. -0.011 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

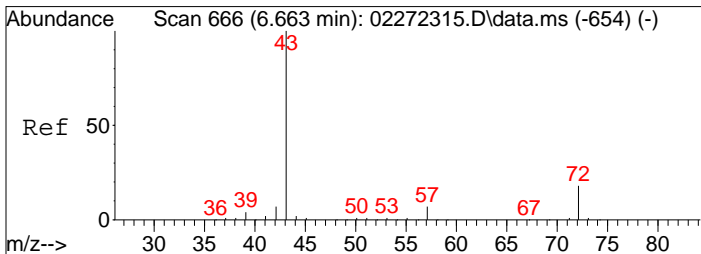
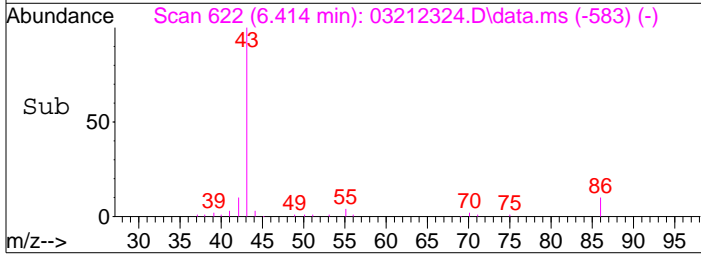
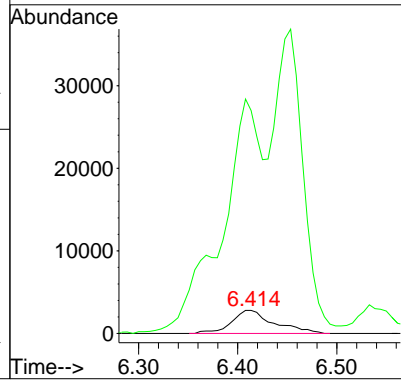
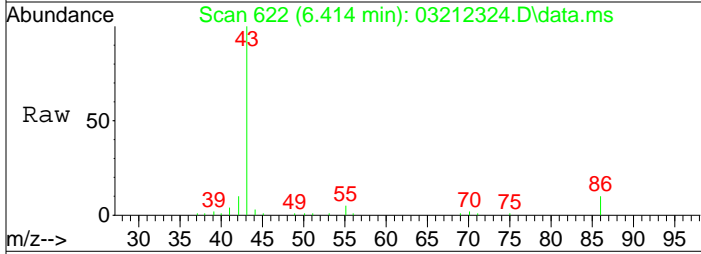
Tgt Ion: 76 Resp: 9507
 Ion Ratio Lower Upper
 76 100
 78 9.6 0.0 29.7





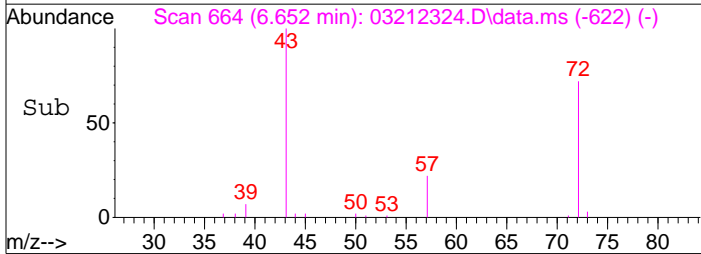
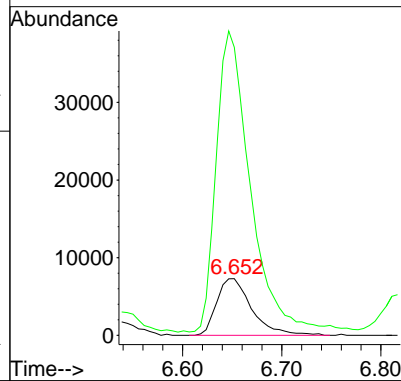
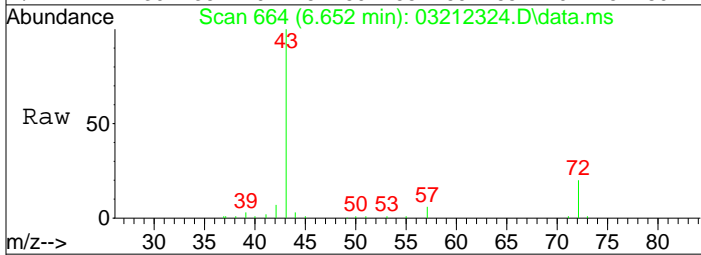
#26
 Vinyl Acetate
 Concen: 3.59 ng
 RT: 6.41 min Scan# 622
 Delta R.T. -0.028 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

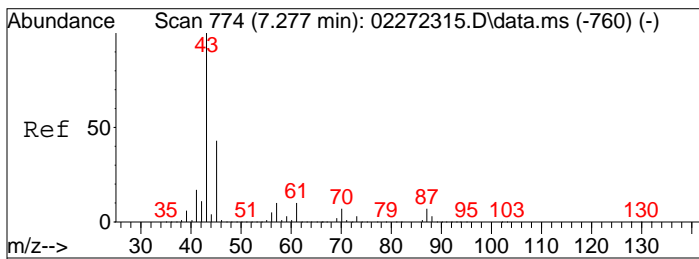
Tgt Ion: 86 Resp: 8394
 Ion Ratio Lower Upper
 86 100
 43 1020.3 1713.1 1753.1#



#27
 2-Butanone (MEK)
 Concen: 1.87 ng
 RT: 6.65 min Scan# 664
 Delta R.T. -0.011 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

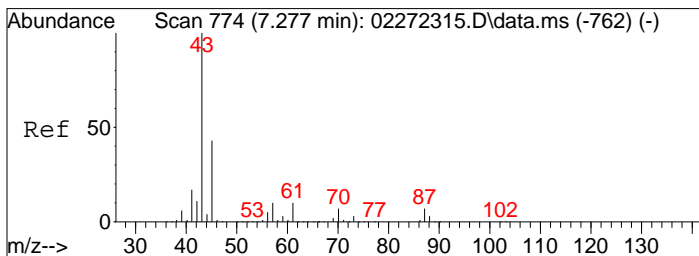
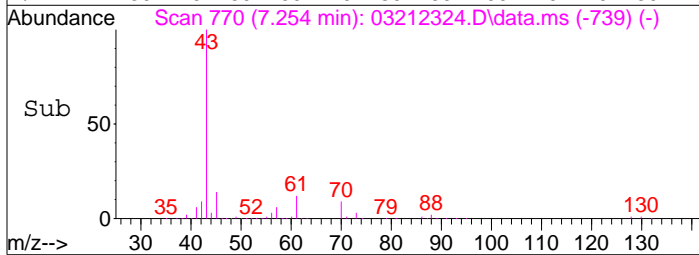
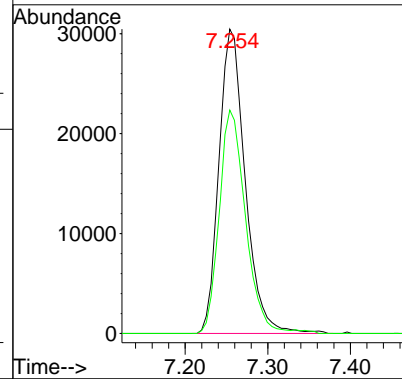
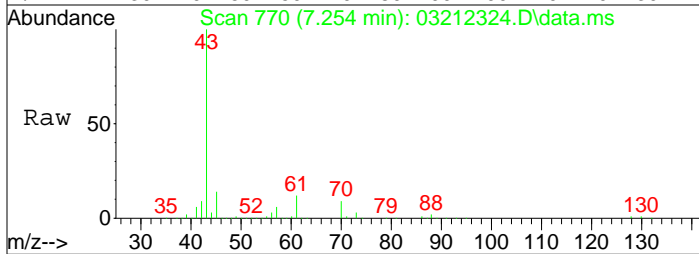
Tgt Ion: 72 Resp: 18022
 Ion Ratio Lower Upper
 72 100
 43 516.3 536.0 576.0#





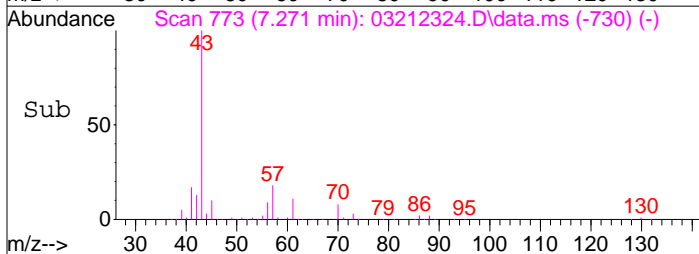
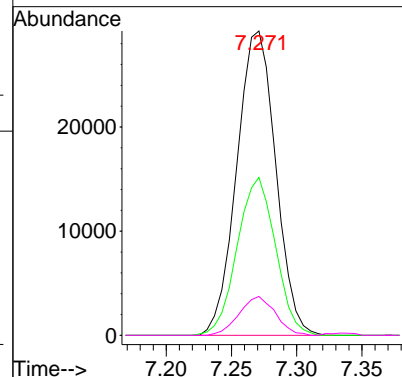
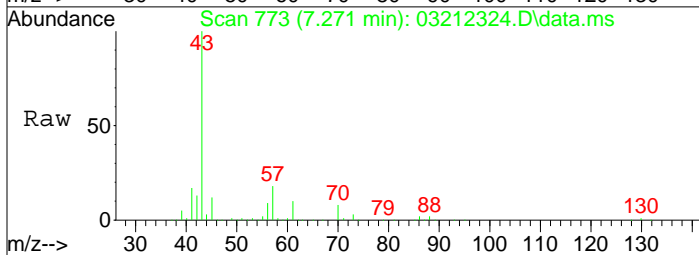
#30
Ethyl Acetate
Concen: 9.12 ng
RT: 7.25 min Scan# 770
Delta R.T. -0.023 min
Lab File: 03212324.D
Acq: 21 Mar 2023 18:55

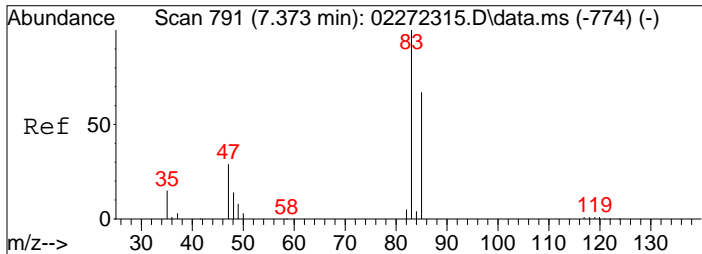
Tgt Ion	Resp	Lower	Upper
61	100		
70	73.7	55.8	95.8



#31
n-Hexane
Concen: 1.98 ng
RT: 7.27 min Scan# 773
Delta R.T. -0.006 min
Lab File: 03212324.D
Acq: 21 Mar 2023 18:55

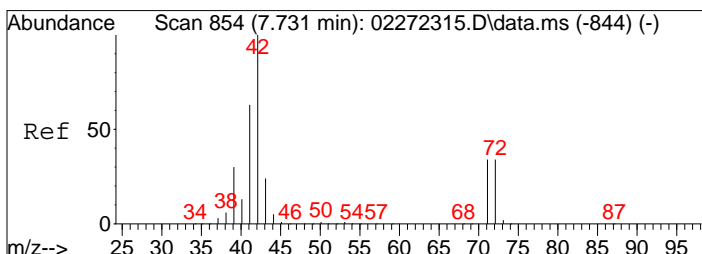
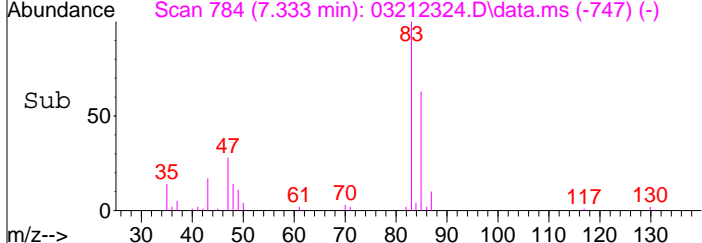
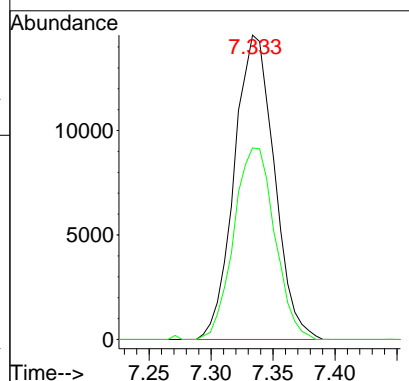
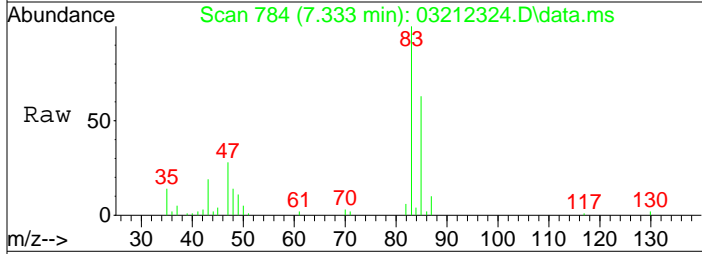
Tgt Ion	Resp	Lower	Upper
57	100		
56	50.9	43.3	64.9
86	11.9	10.2	15.2





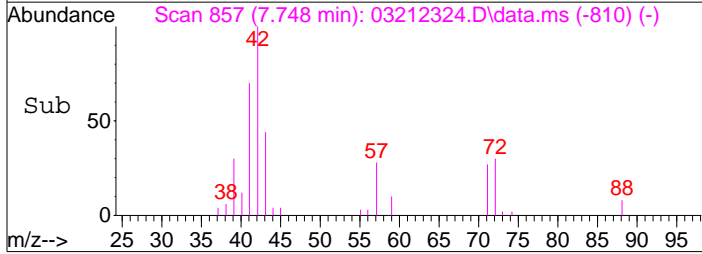
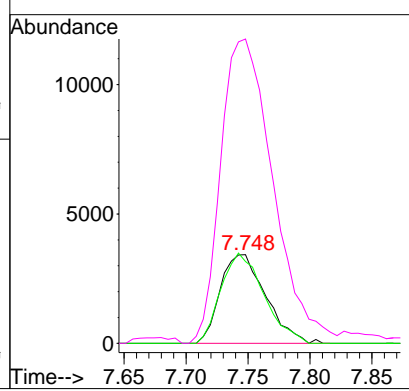
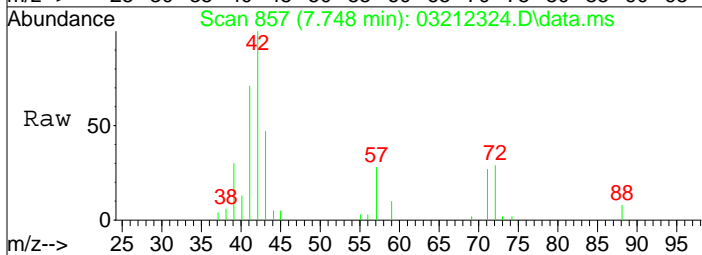
#32
 Chloroform
 Concen: 0.97 ng
 RT: 7.33 min Scan# 784
 Delta R.T. -0.040 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

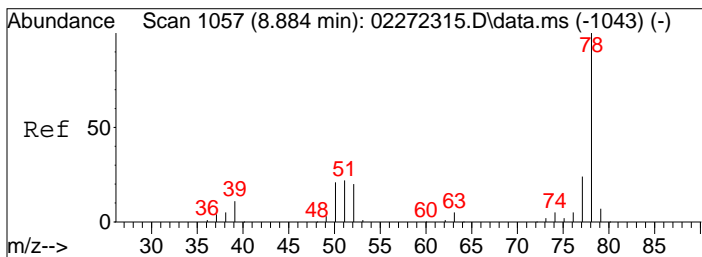
Tgt Ion	Resp	Lower	Upper
83	100		
85	64.4	46.3	86.3



#34
 Tetrahydrofuran (THF)
 Concen: 0.91 ng
 RT: 7.75 min Scan# 857
 Delta R.T. 0.017 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

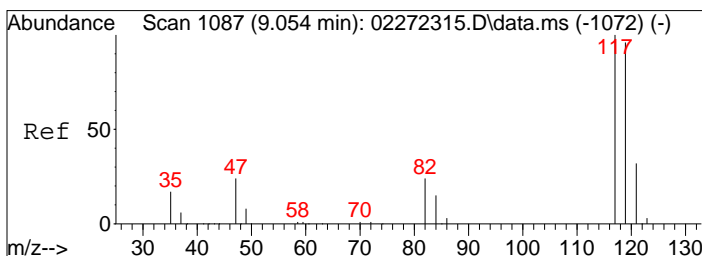
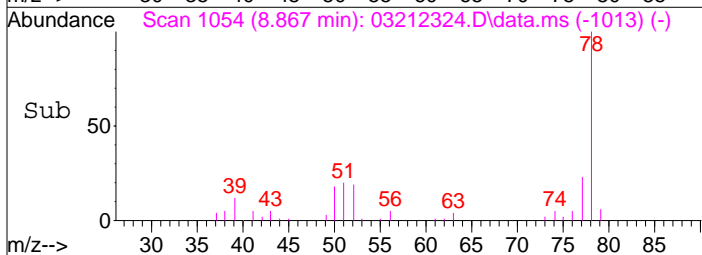
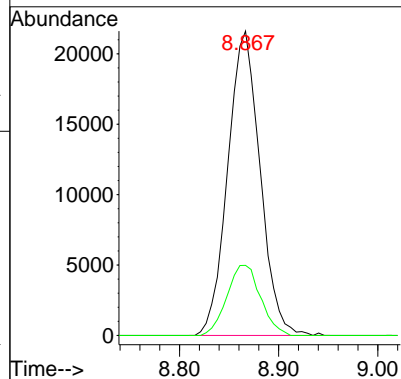
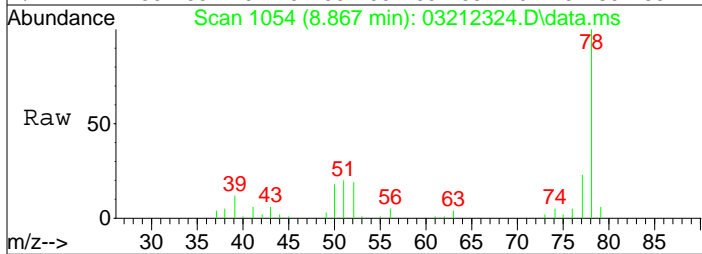
Tgt Ion	Resp	Lower	Upper
72	100		
71	96.6	81.3	121.3
42	394.7	293.7	333.7#





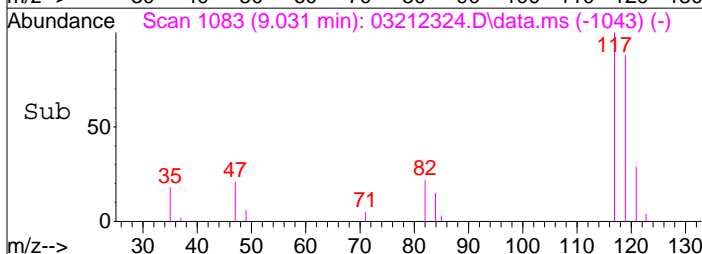
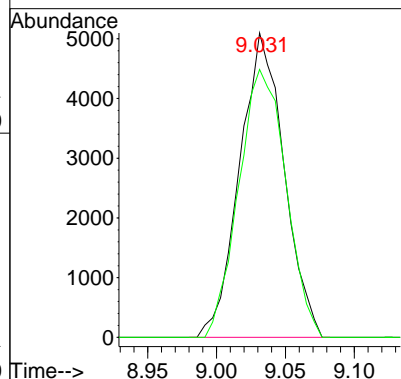
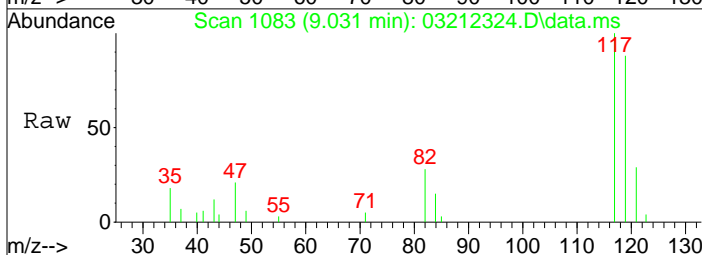
#41
Benzene
Concen: 0.77 ng
RT: 8.87 min Scan# 1054
Delta R.T. -0.017 min
Lab File: 03212324.D
Acq: 21 Mar 2023 18:55

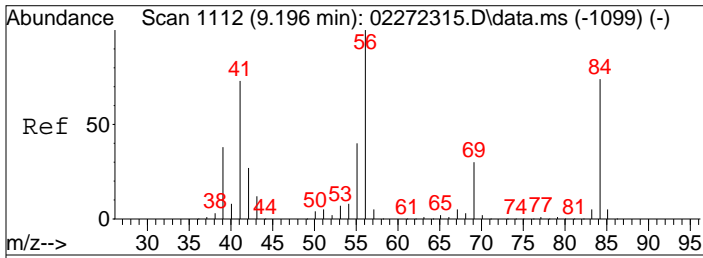
Tgt Ion: 78 Resp: 49039
Ion Ratio Lower Upper
78 100
77 24.0 4.0 44.0



#42
Carbon Tetrachloride
Concen: 0.41 ng
RT: 9.03 min Scan# 1083
Delta R.T. -0.023 min
Lab File: 03212324.D
Acq: 21 Mar 2023 18:55

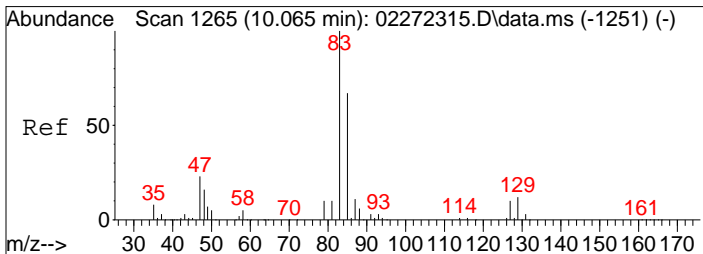
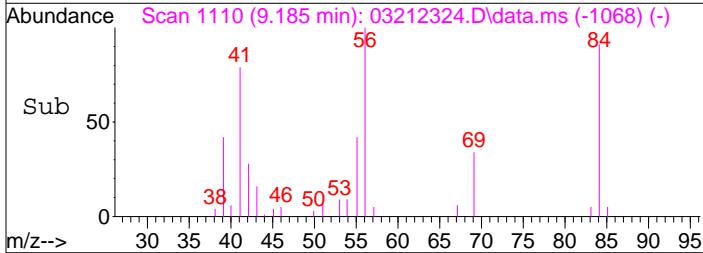
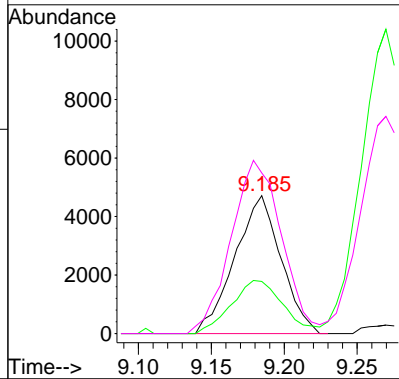
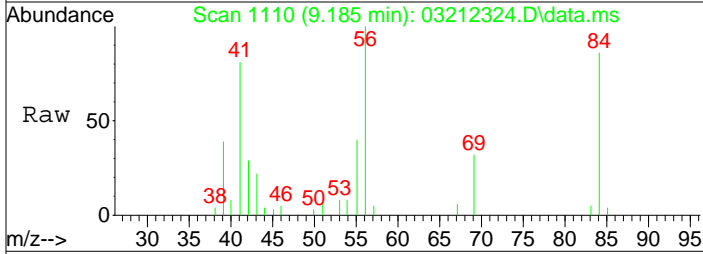
Tgt Ion: 117 Resp: 11439
Ion Ratio Lower Upper
117 100
119 93.3 75.5 115.5





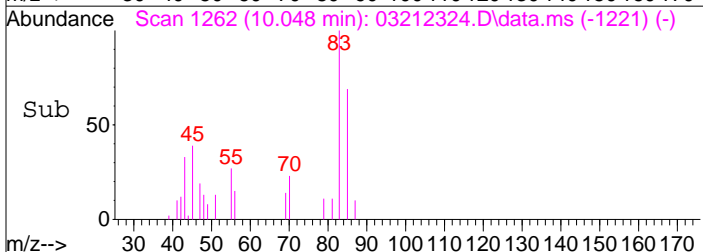
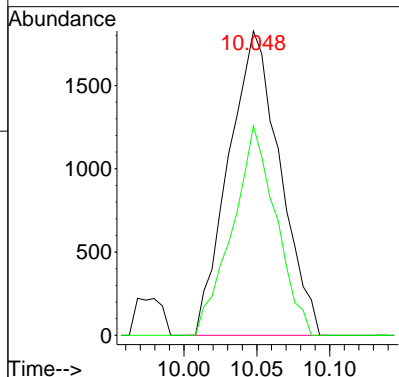
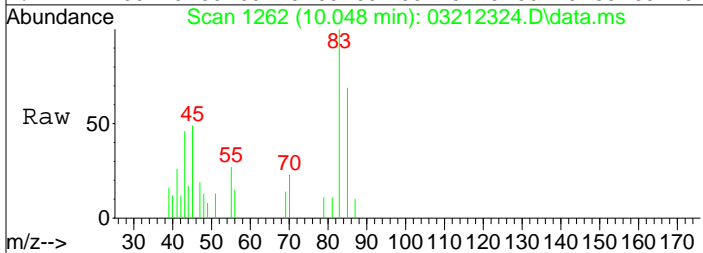
#43
 Cyclohexane
 Concen: 0.44 ng
 RT: 9.18 min Scan# 1110
 Delta R.T. -0.011 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

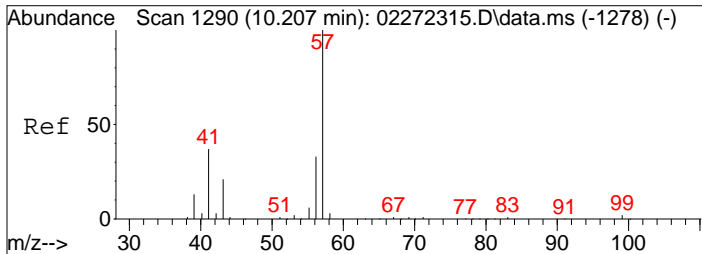
Tgt Ion	Resp	Lower	Upper
84	10400		
84	100		
69	43.1	20.6	60.6
56	137.1	116.1	156.1



#46
 Bromodichloromethane
 Concen: 0.17 ng
 RT: 10.05 min Scan# 1262
 Delta R.T. -0.017 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

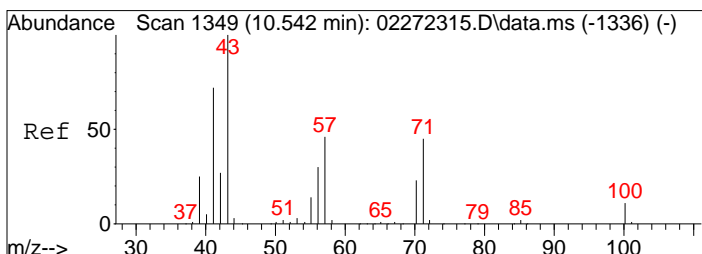
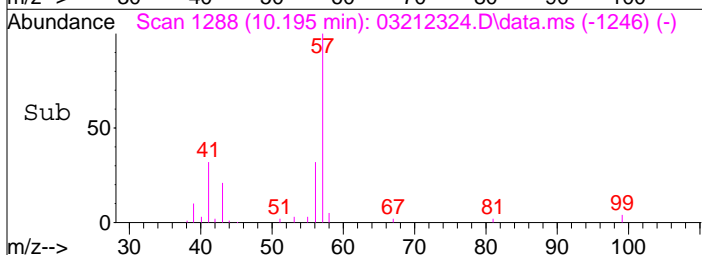
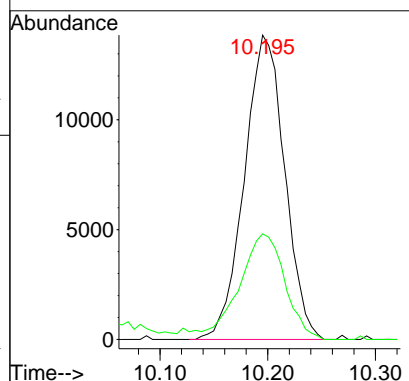
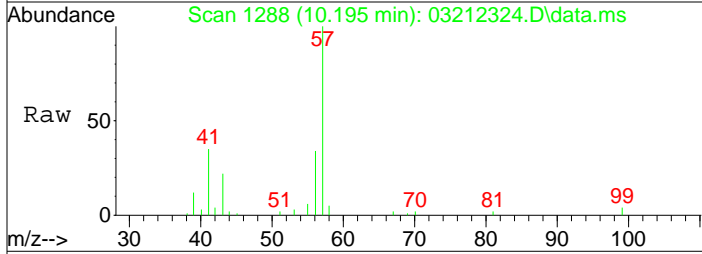
Tgt Ion	Resp	Lower	Upper
83	4468		
83	100		
85	58.7	46.0	86.0





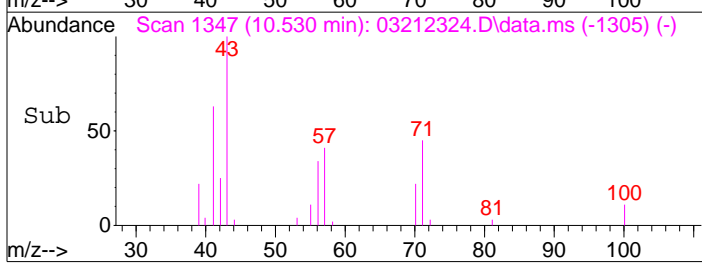
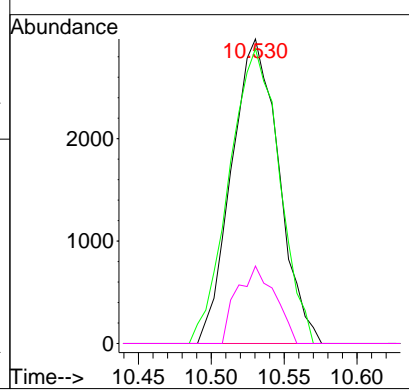
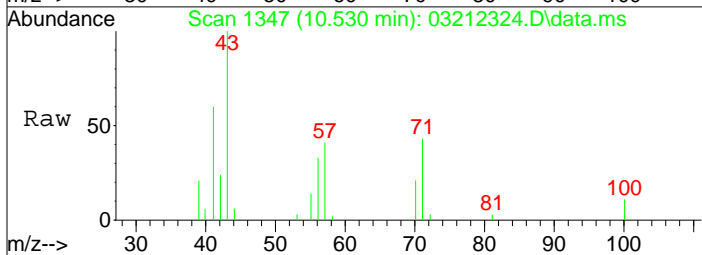
#49
 2,2,4-Trimethylpentane (Isooctane)
 Concen: 0.46 ng
 RT: 10.20 min Scan# 1288
 Delta R.T. -0.011 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

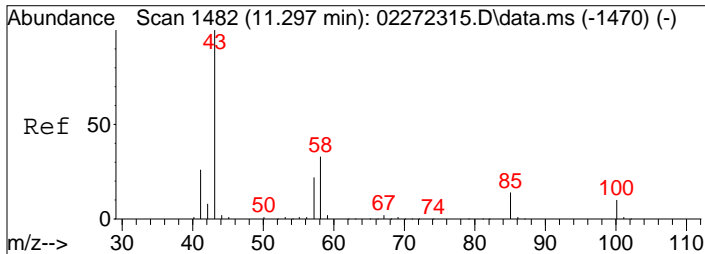
Tgt Ion	Resp	Lower	Upper
57	100		
41	39.1	17.1	57.1



#51
 n-Heptane
 Concen: 0.42 ng
 RT: 10.53 min Scan# 1347
 Delta R.T. -0.011 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

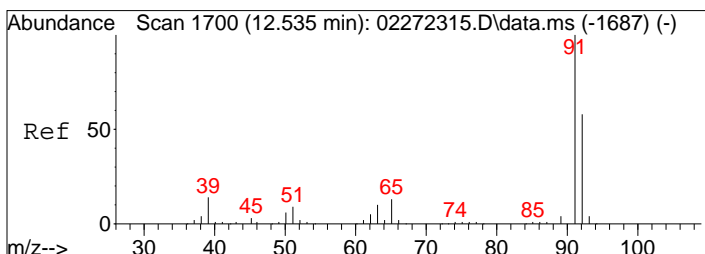
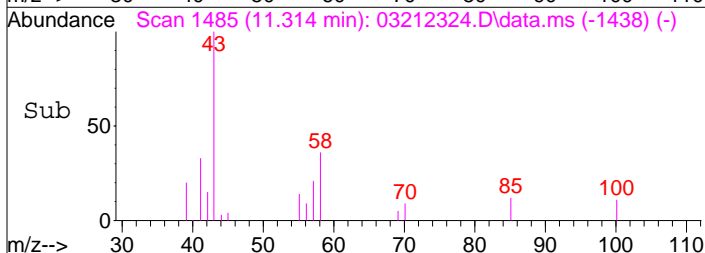
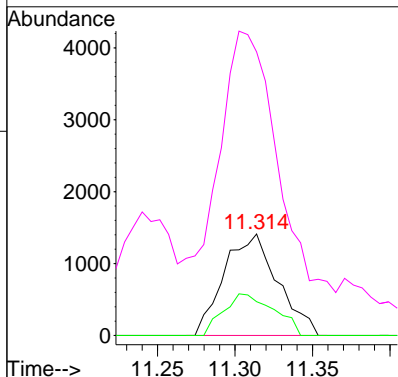
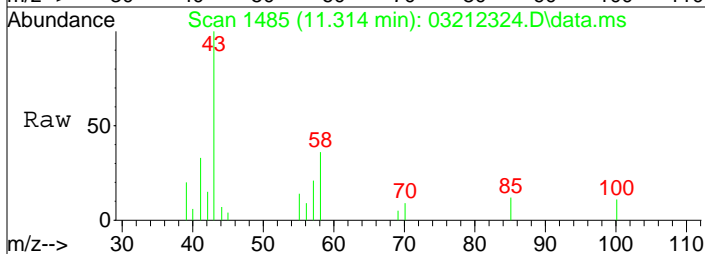
Tgt Ion	Resp	Lower	Upper
71	100		
57	102.4	84.6	124.6
100	20.4	5.8	45.8





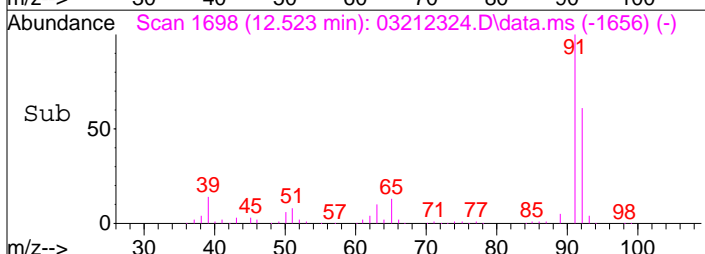
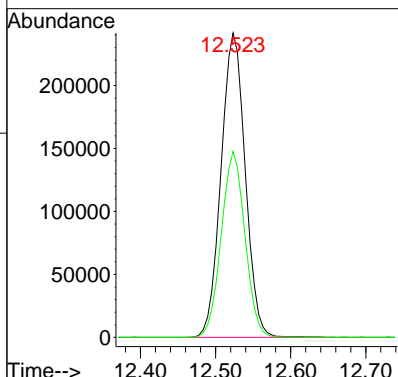
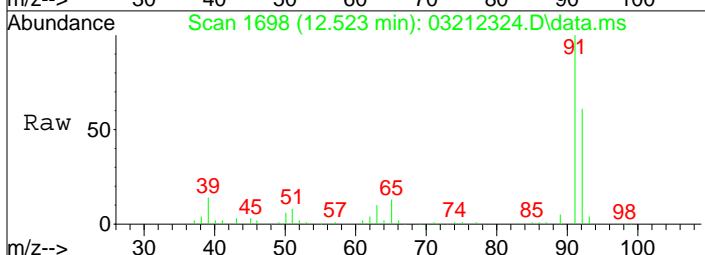
#53
 4-Methyl-2-pentanone
 Concen: 0.22 ng
 RT: 11.31 min Scan# 1485
 Delta R.T. 0.017 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

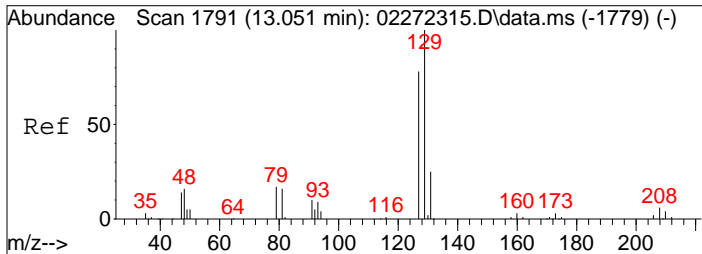
Tgt Ion:	58	85	43	Resp:	3401	Lower	Upper
Ion Ratio	100	38.8	417.3				
		35.7	242.9		53.5		364.3#



#58
 Toluene
 Concen: 7.74 ng
 RT: 12.52 min Scan# 1698
 Delta R.T. -0.011 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

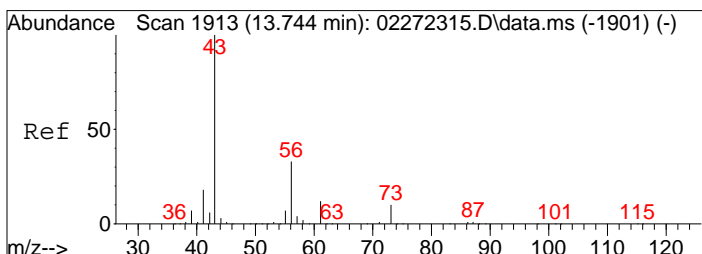
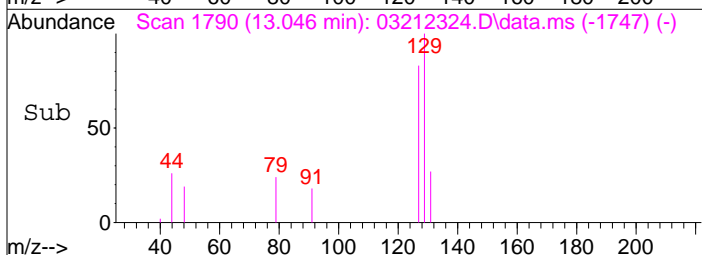
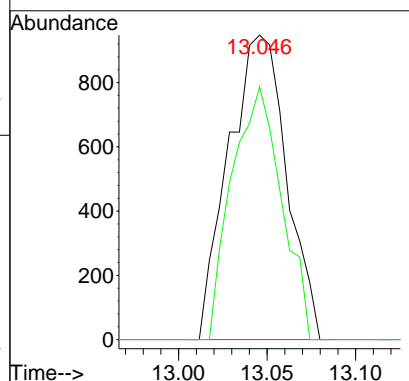
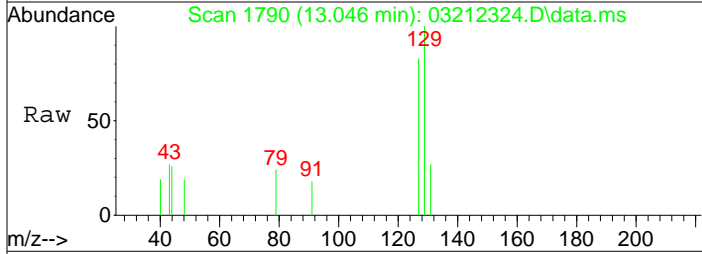
Tgt Ion:	91	92	Resp:	540202	Lower	Upper
Ion Ratio	100	59.9				
		37.6		77.6		





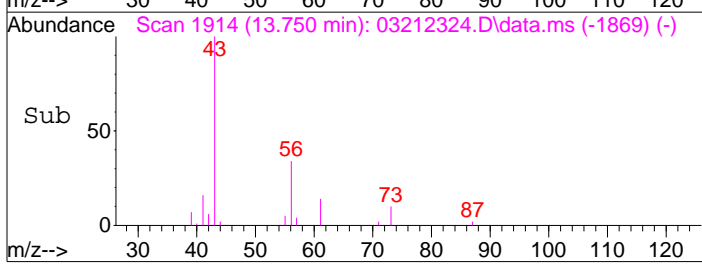
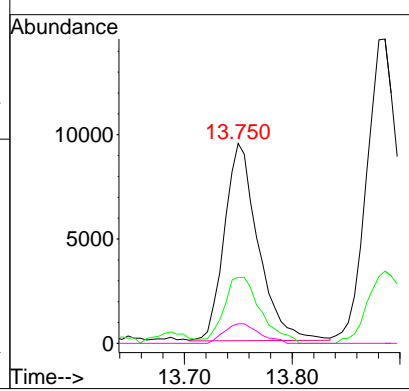
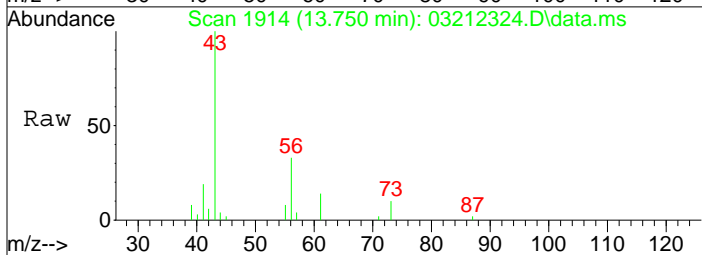
#60
 Dibromochloromethane
 Concen: 0.10 ng
 RT: 13.05 min Scan# 1790
 Delta R.T. -0.006 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

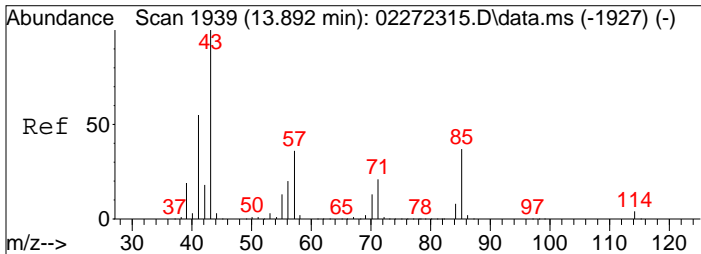
Tgt Ion	Resp	Lower	Upper
129	2156		
127	71.2	57.5	97.5



#62
 n-Butyl Acetate
 Concen: 0.42 ng
 RT: 13.75 min Scan# 1914
 Delta R.T. 0.006 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

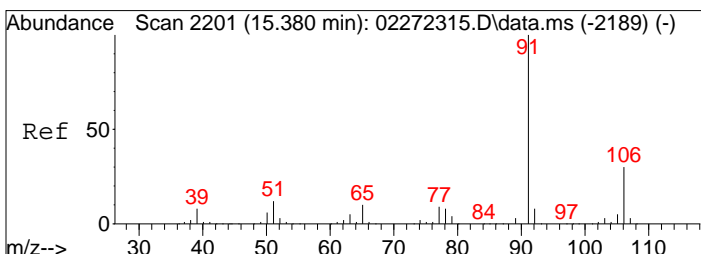
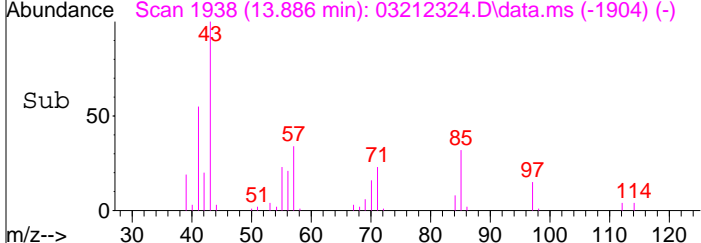
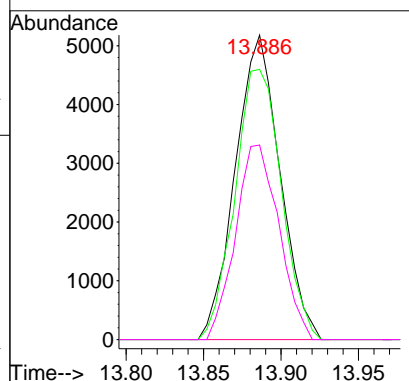
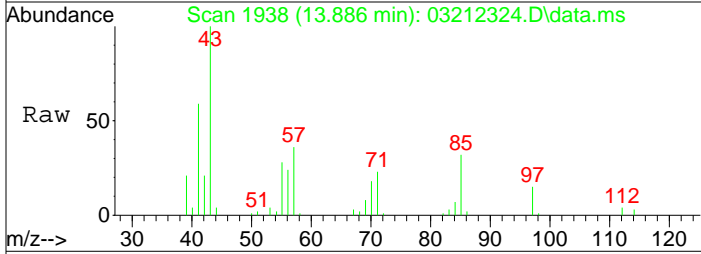
Tgt Ion	Resp	Lower	Upper
43	20638		
56	36.7	13.1	53.1
73	10.4	0.0	29.9





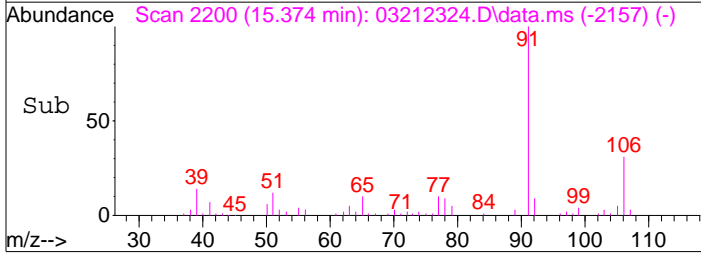
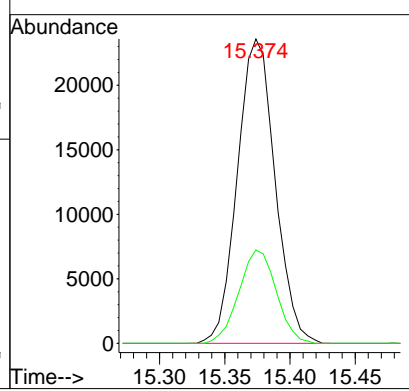
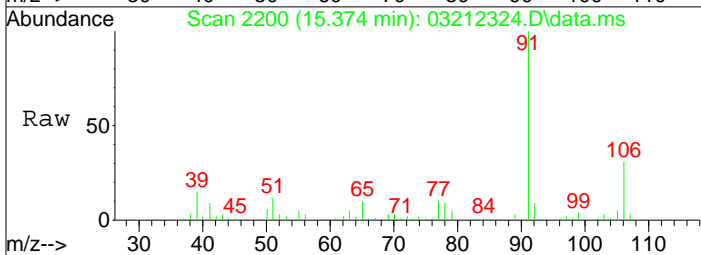
#63
 n-Octane
 Concen: 0.68 ng
 RT: 13.89 min Scan# 1938
 Delta R.T. -0.006 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

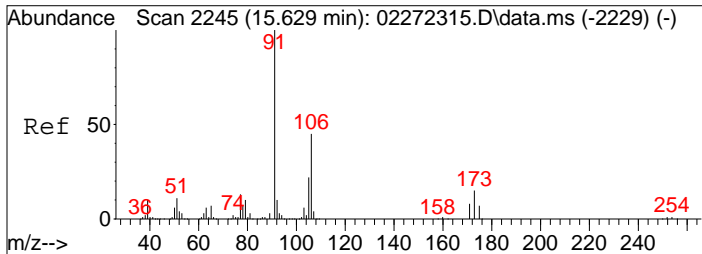
Tgt Ion:	Resp:	Lower	Upper
57	10387		
57	100		
85	92.5	82.4	123.6
71	62.1	47.8	71.6



#66
 Ethylbenzene
 Concen: 0.59 ng
 RT: 15.37 min Scan# 2200
 Delta R.T. -0.006 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

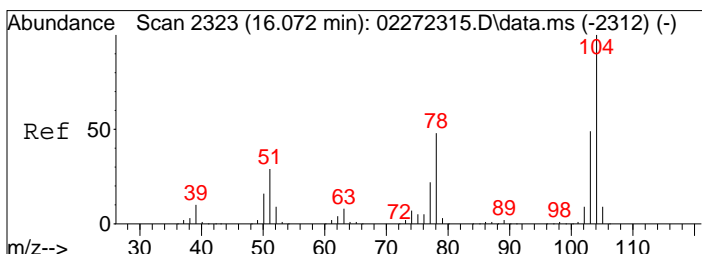
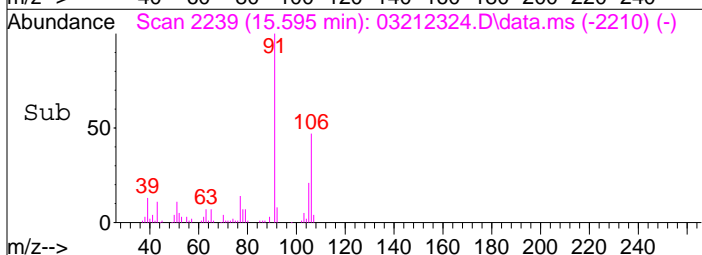
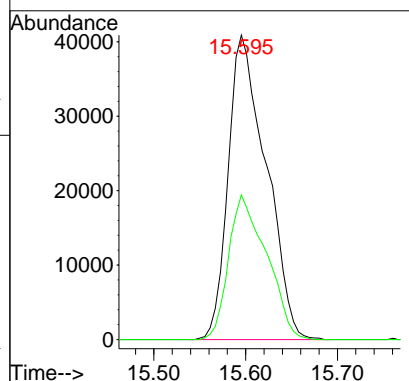
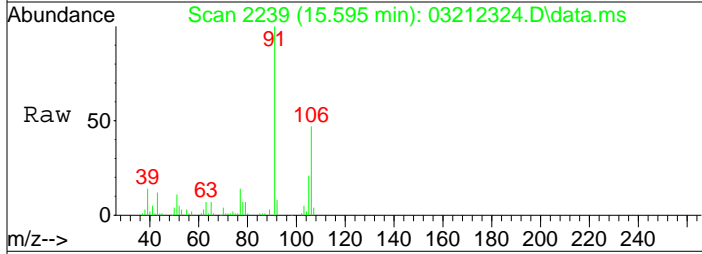
Tgt Ion:	Resp:	Lower	Upper
91	47415		
91	100		
106	30.4	10.3	50.3





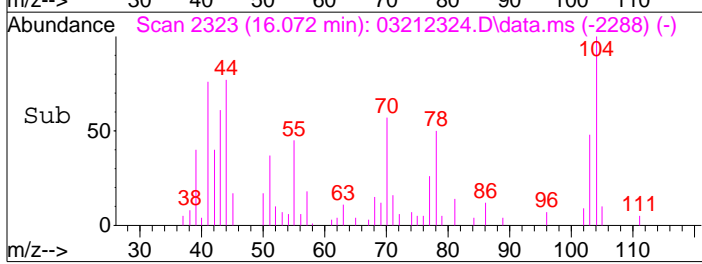
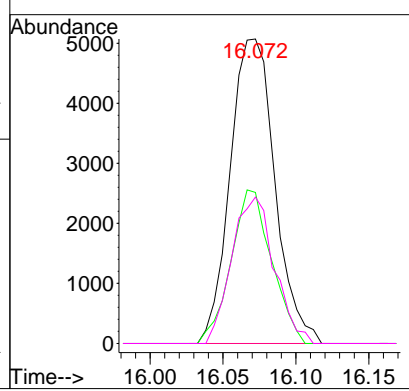
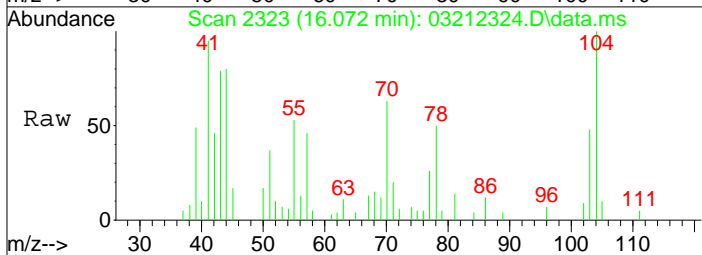
#67
 m- & p-Xylenes
 Concen: 1.78 ng
 RT: 15.60 min Scan# 2239
 Delta R.T. -0.034 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

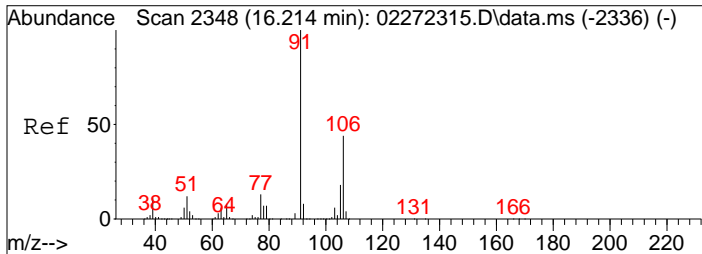
Tgt Ion	Resp	Lower	Upper
91	117176		
106	47.5	25.0	65.0



#69
 Styrene
 Concen: 0.26 ng
 RT: 16.07 min Scan# 2323
 Delta R.T. 0.000 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

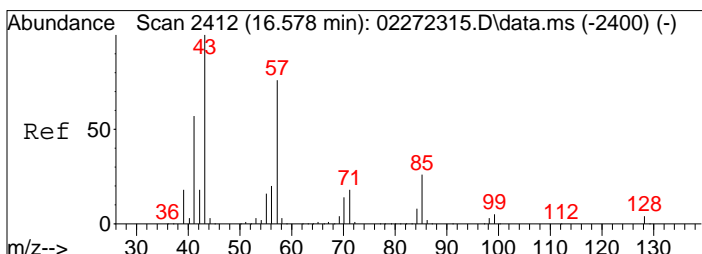
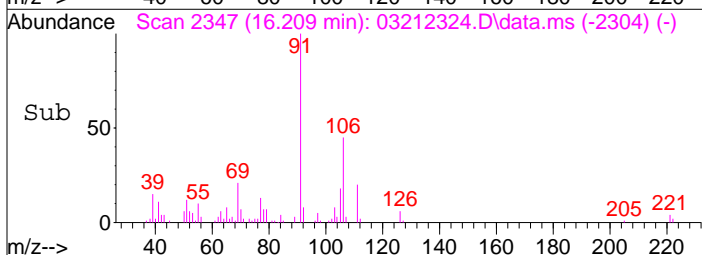
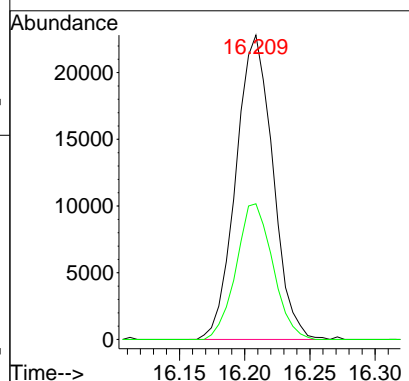
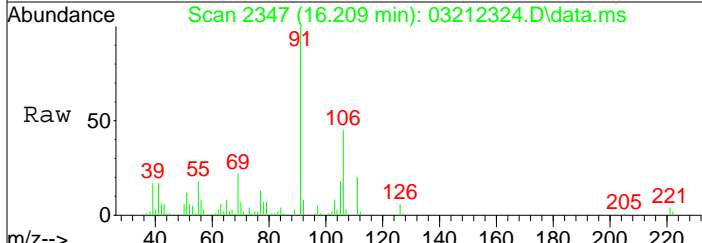
Tgt Ion	Resp	Lower	Upper
104	10821		
78	45.7	29.2	69.2
103	45.9	29.2	69.2





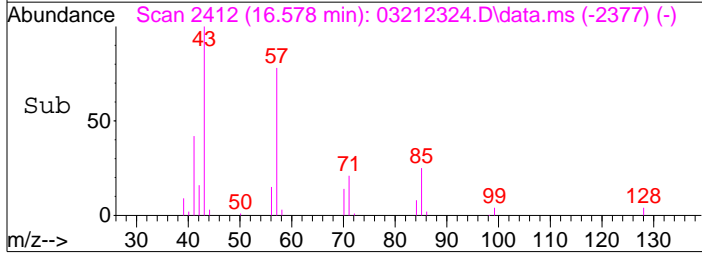
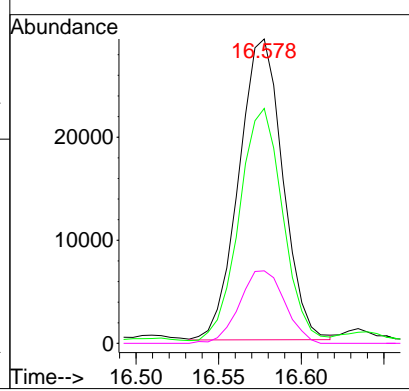
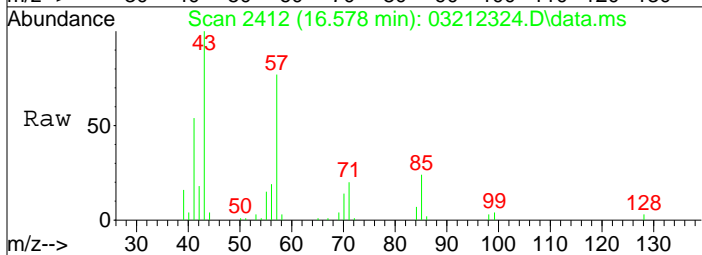
#70
 o-Xylene
 Concen: 0.69 ng
 RT: 16.21 min Scan# 2347
 Delta R.T. -0.006 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

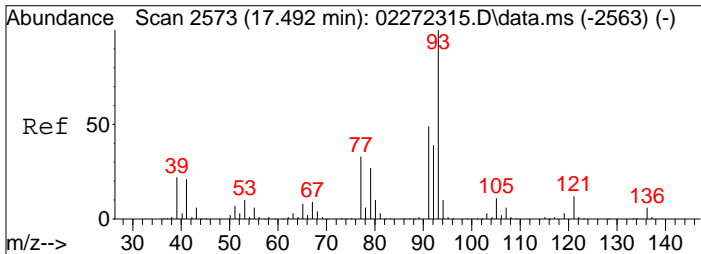
Tgt Ion	Resp	Lower	Upper
91	100		
106	44.2	24.0	64.0



#71
 n-Nonane
 Concen: 1.32 ng
 RT: 16.58 min Scan# 2412
 Delta R.T. 0.000 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

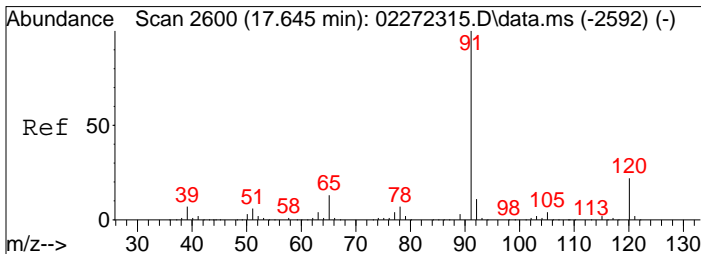
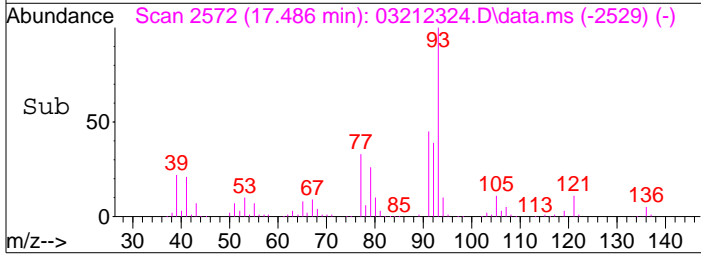
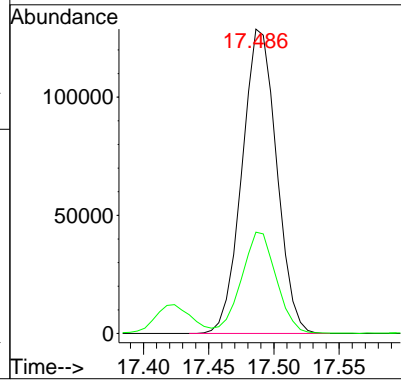
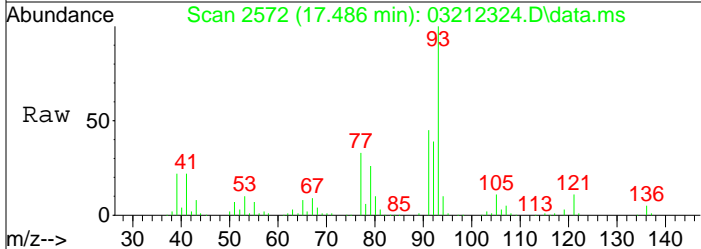
Tgt Ion	Resp	Lower	Upper
43	100		
57	76.8	56.2	96.2
85	24.8	6.1	46.1





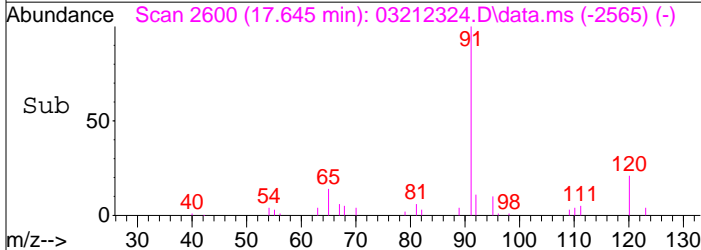
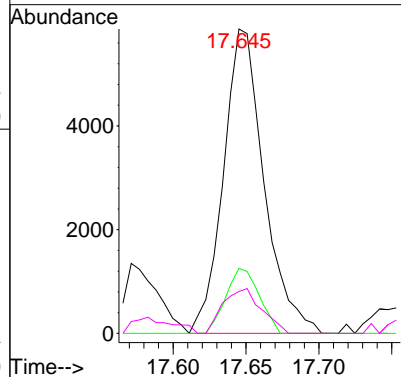
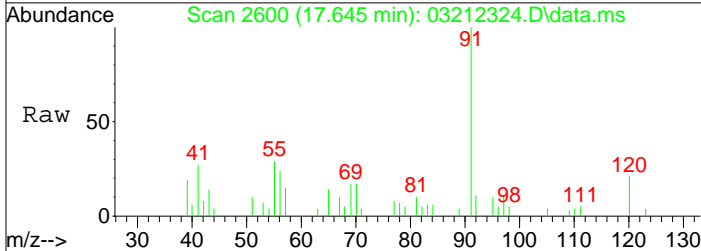
#75
 alpha-Pinene
 Concen: 7.06 ng
 RT: 17.49 min Scan# 2572
 Delta R.T. -0.006 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

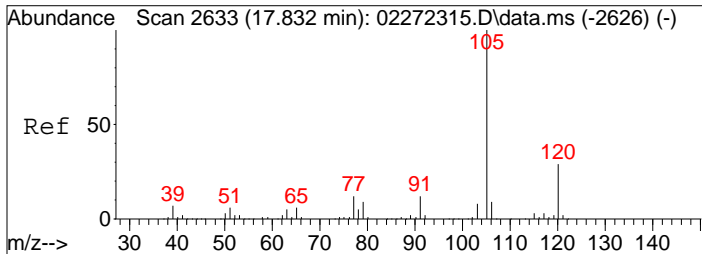
Tgt Ion	Resp	Lower	Upper
93	100		
77	33.7	14.2	54.2



#76
 n-Propylbenzene
 Concen: 0.12 ng
 RT: 17.65 min Scan# 2600
 Delta R.T. 0.000 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

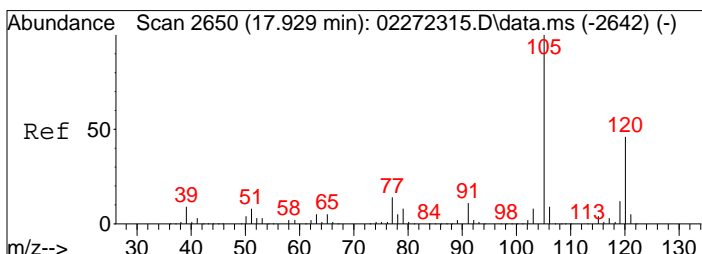
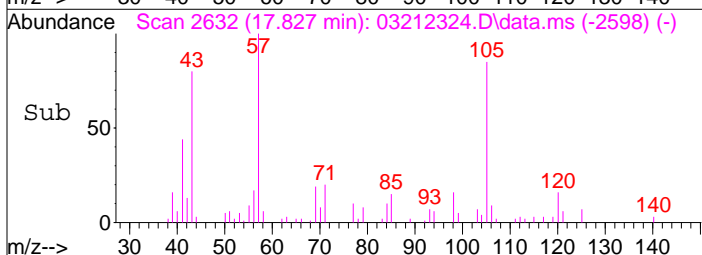
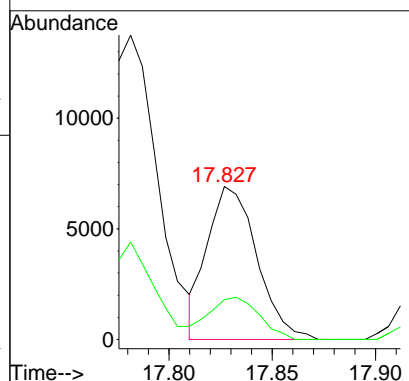
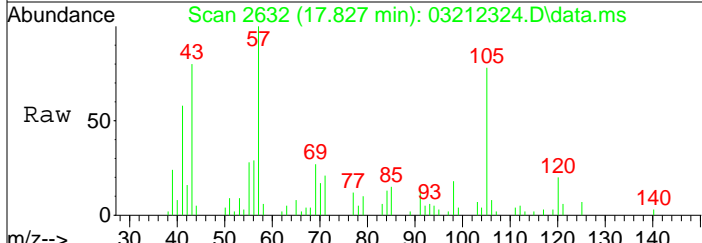
Tgt Ion	Resp	Lower	Upper
91	100		
120	17.5	2.0	42.0
65	14.0	0.0	32.3





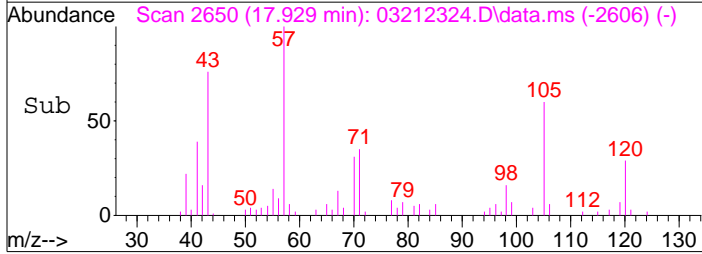
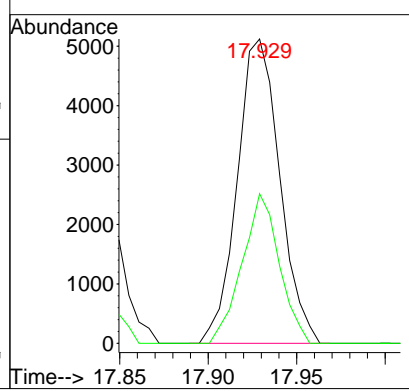
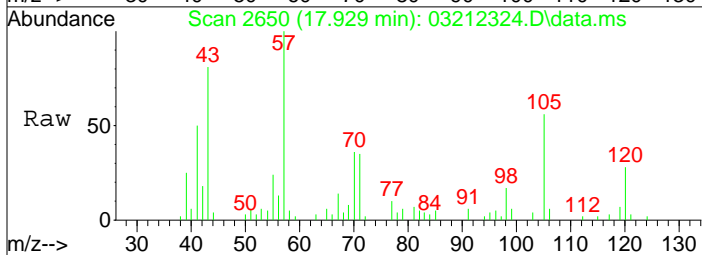
#78
 4-Ethyltoluene
 Concen: 0.15 ng
 RT: 17.83 min Scan# 2632
 Delta R.T. -0.006 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

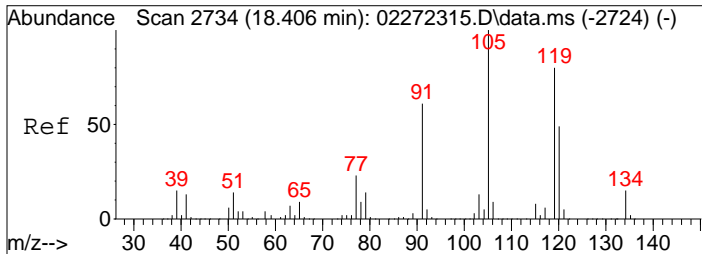
Tgt Ion	Resp	Lower	Upper
105	11519	100	
120	27.9	8.5	48.5



#79
 1,3,5-Trimethylbenzene
 Concen: 0.13 ng
 RT: 17.93 min Scan# 2650
 Delta R.T. 0.000 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

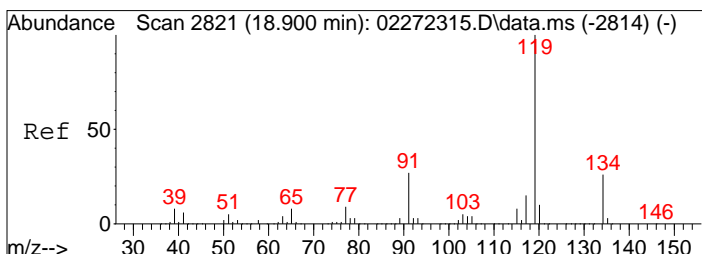
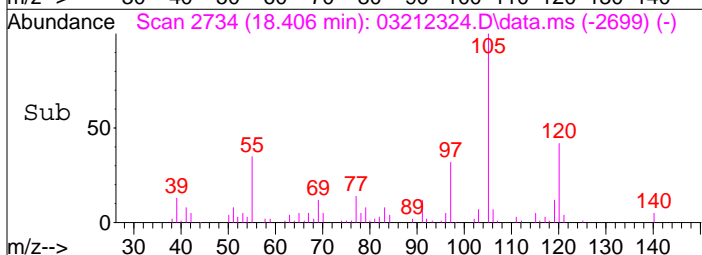
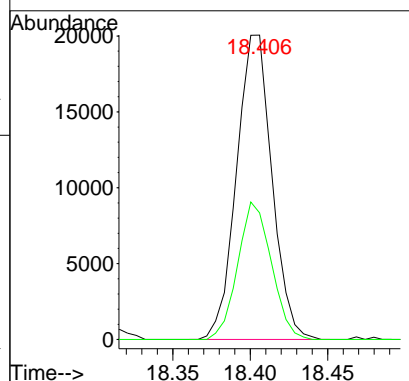
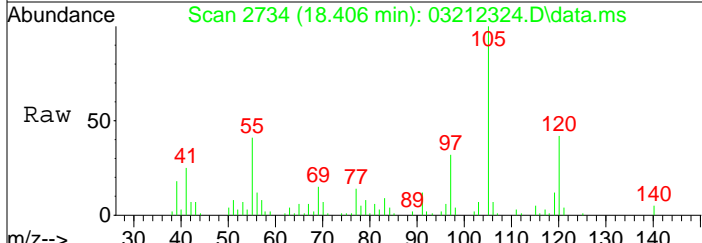
Tgt Ion	Resp	Lower	Upper
105	8552	100	
120	42.9	25.5	65.5





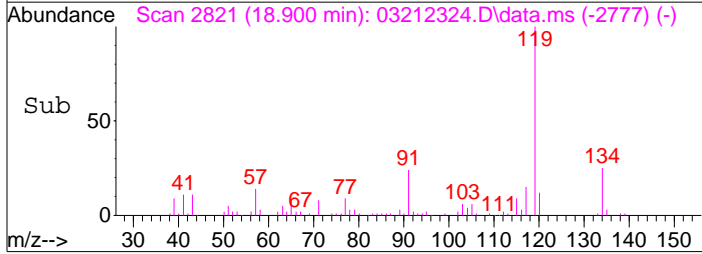
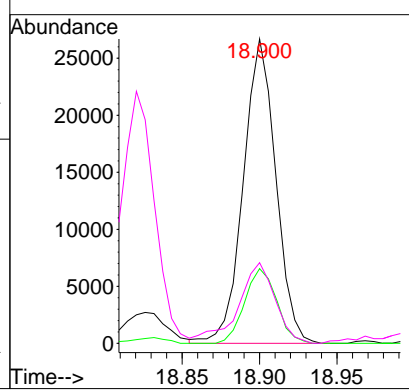
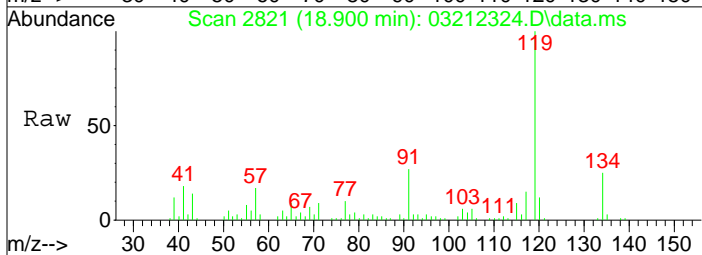
#82
 1,2,4-Trimethylbenzene
 Concen: 0.46 ng
 RT: 18.41 min Scan# 2734
 Delta R.T. 0.000 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

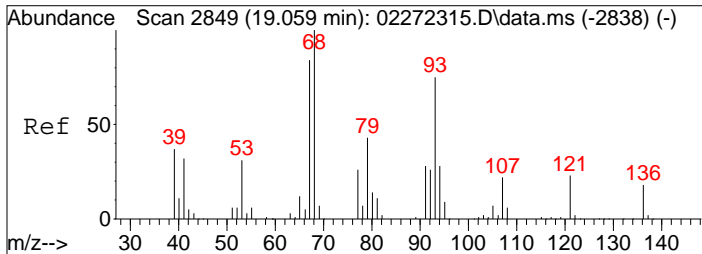
Tgt Ion	Resp	Lower	Upper
105	31911		
105	100		
120	42.9	30.5	70.5



#88
 4-Isopropyltoluene (p-Cymene)
 Concen: 0.50 ng
 RT: 18.90 min Scan# 2821
 Delta R.T. 0.000 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

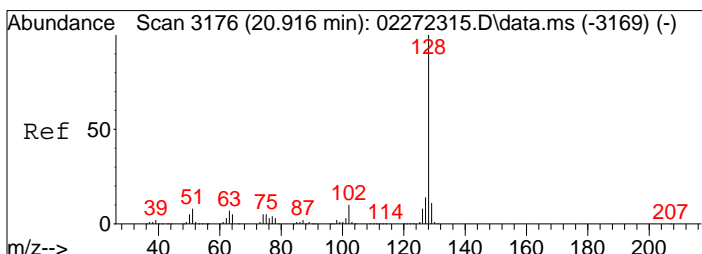
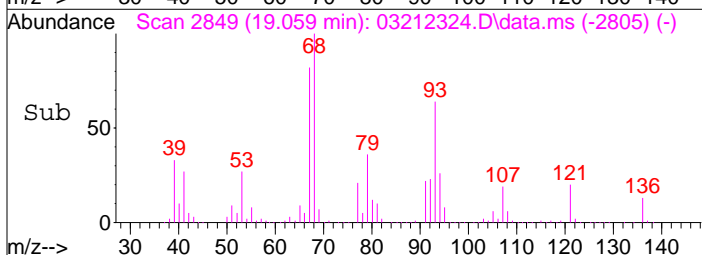
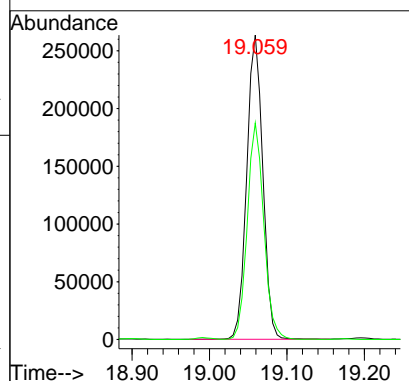
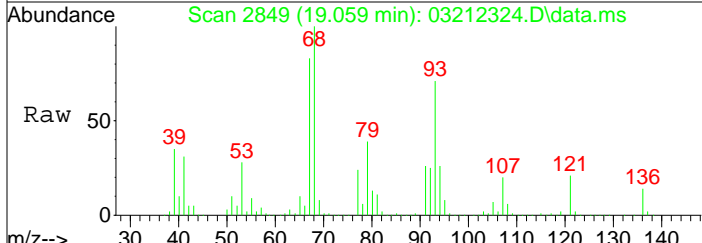
Tgt Ion	Resp	Lower	Upper
119	38975		
119	100		
134	24.2	5.7	45.7
91	30.3	6.8	46.8





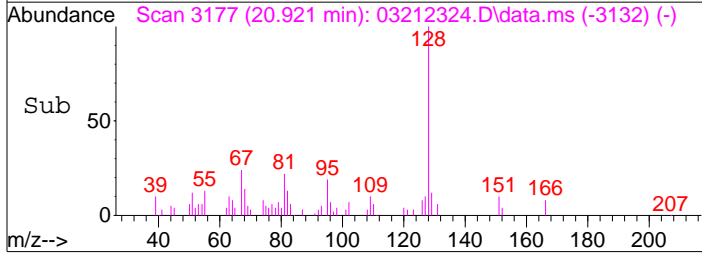
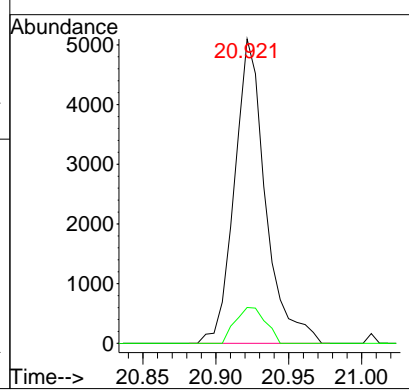
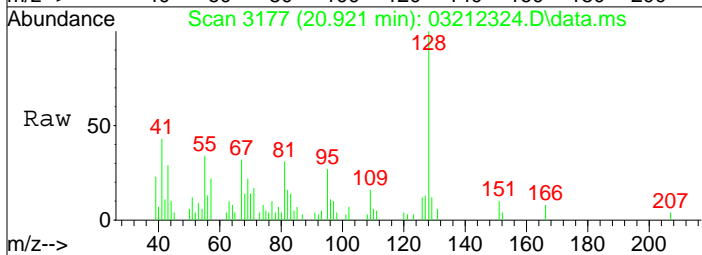
#91
 d-Limonene
 Concen: 16.44 ng
 RT: 19.06 min Scan# 2849
 Delta R.T. 0.000 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

Tgt Ion	Resp	Lower	Upper
68	100		
93	73.2	55.7	95.7



#95
 Naphthalene
 Concen: 0.12 ng
 RT: 20.92 min Scan# 3177
 Delta R.T. 0.006 min
 Lab File: 03212324.D
 Acq: 21 Mar 2023 18:55

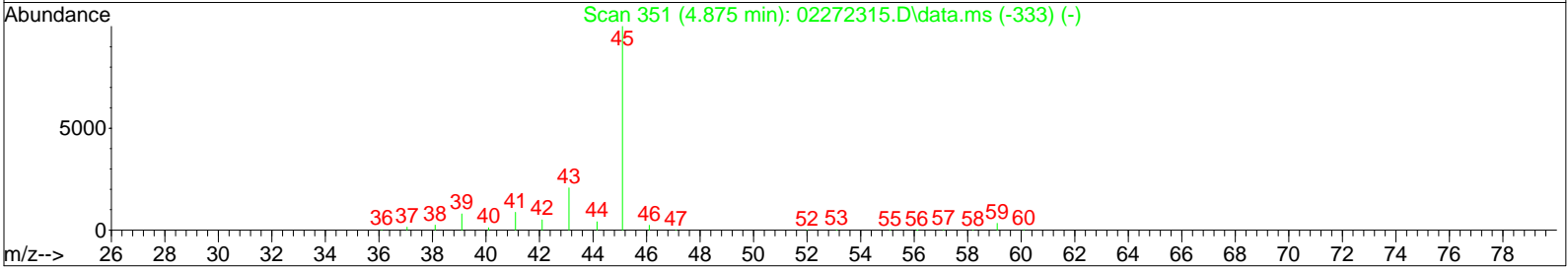
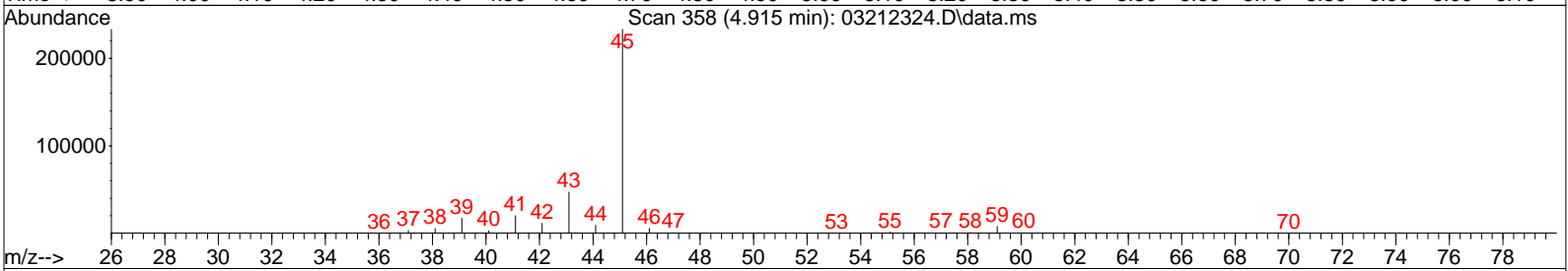
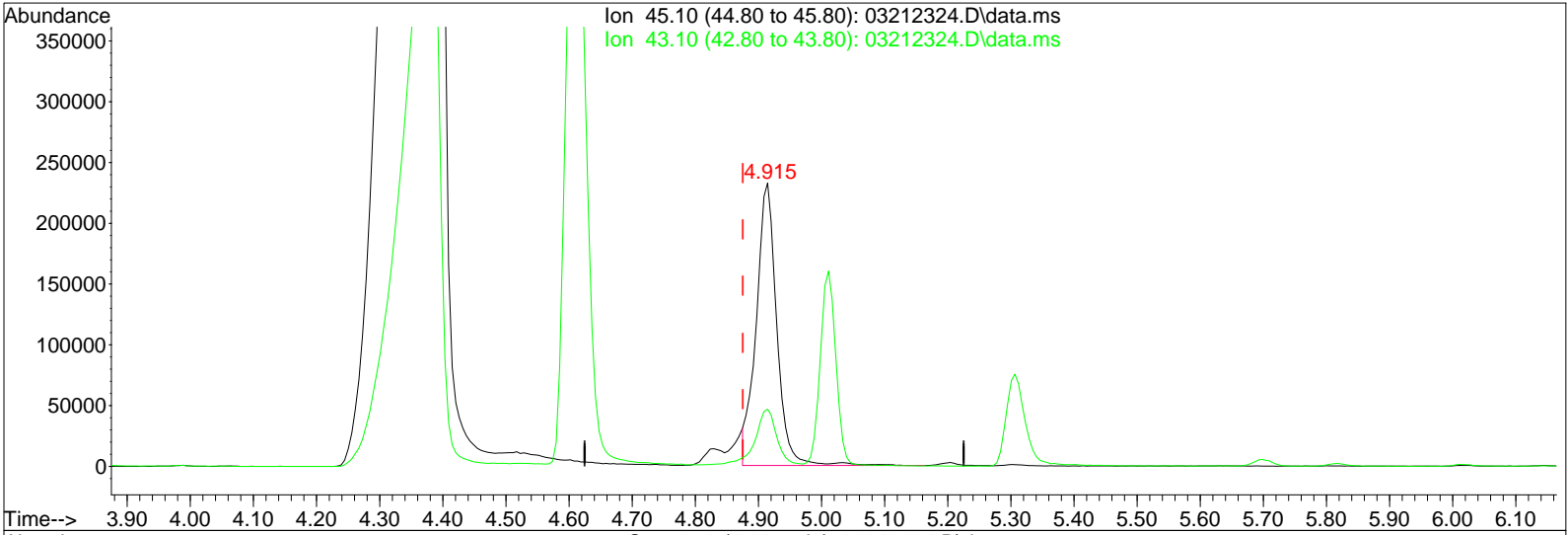
Tgt Ion	Resp	Lower	Upper
128	100		
129	11.5	0.0	31.0



Data File : I:\MS09\DATA\2023 03\21\03212324.D
 Acq On : 21 Mar 2023 18:55
 Sample : P2301184-013 (1000ml)
 Misc : S35-02212305

Vial: 16
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 21 20:15:00 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



TIC: 03212324.D\data.ms

(15) 2-Propanol (Isopropanol) (T)

4.915min (+0.040) 11.17ng

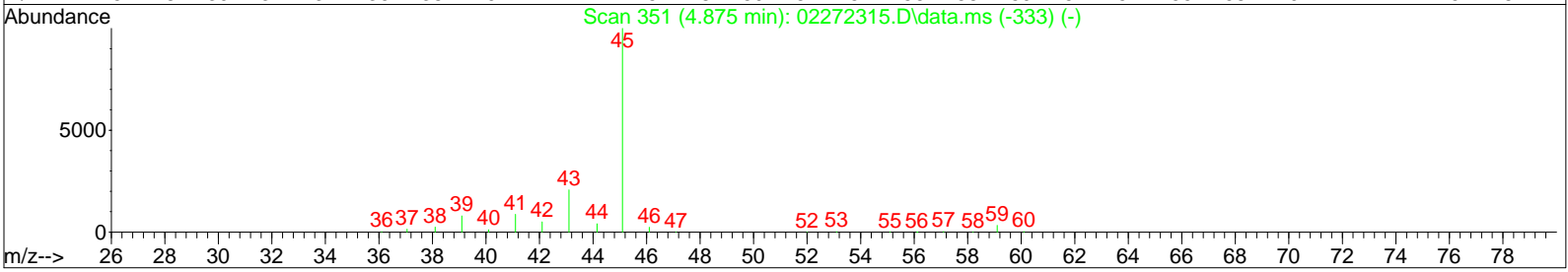
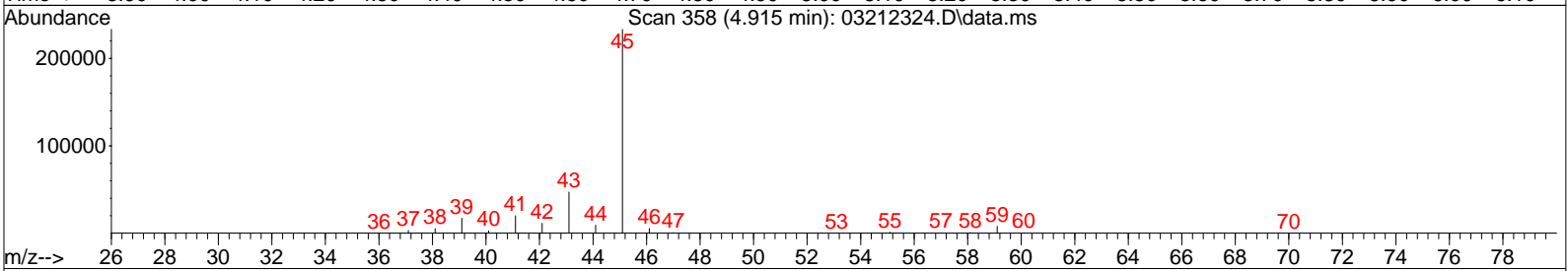
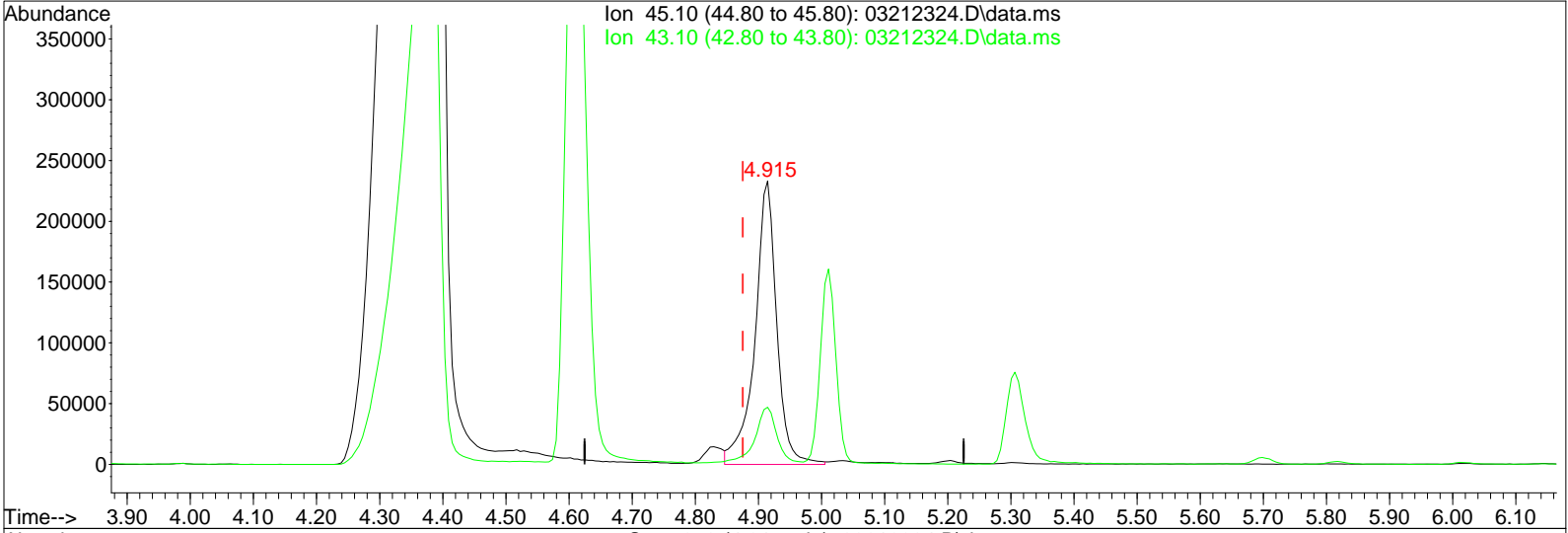
response 525925

Ion	Exp%	Act%
45.10	100	100
43.10	21.60	20.84
0.00	0.00	0.00
0.00	0.00	0.00

Data File : I:\MS09\DATA\2023 03\21\03212324.D
 Acq On : 21 Mar 2023 18:55
 Sample : P2301184-013 (1000ml)
 Misc : S35-02212305

Vial: 16
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 21 20:15:00 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



TIC: 03212324.D\data.ms

(15) 2-Propanol (Isopropanol) (T)

4.915min (+0.040) 11.87ng m

IC-

response 559264

WA 3/22/23

Ion	Exp%	Act%
45.10	100	100
43.10	21.60	19.60
0.00	0.00	0.00
0.00	0.00	0.00

TZ 3/22/23

Data File : I:\MS09\DATA\2023 03\21\03212338.D
 Acq On : 22 Mar 2023 5:55
 Sample : P2301184-013dil (200ml)
 Misc : S35-02212305

Vial: 16
 Operator: WA/SR
 Inst : MS09

107 3/22/23

Quant Time: Mar 22 06:52:01 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	7.20	130	164463	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	9.26	114	735796	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.81	54	160539	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.96	65	355311	12.761	ng	-0.04
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.08%
57) Toluene-d8 (SS2)	12.39	98	862220	14.135	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	113.04%
73) Bromofluorobenzene (SS3)	16.79	174	253837	10.205	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	81.60%

Target Compounds

						Qvalue
2) Propene	3.26	42	13648	0.624	ng	# 79
3) Dichlorodifluoromethan...	3.32	85	13195	0.347	ng	99
4) Chloromethane	3.49	50	5281	0.221	ng	96
5) 1,2-Dichloro-1,1,2,2-t...	3.59	135	209	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	3.80	54	548	N.D.		
8) Bromomethane	4.01	94	170	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	4.32	45	2103795	134.800	ng	99
11) Acetonitrile	0.00	41	0	N.D.		
12) Acrolein	4.52	56	1622	0.156	ng	79
13) Acetone	4.61	58	49533	4.188	ng	# 84
14) Trichlorofluoromethane	4.73	101	10393	0.274	ng	99
15) 2-Propanol (Isopropanol)	4.87	45	141139	3.057	ng	96
16) Acrylonitrile	5.01	53	1208	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	5.33	84	1342	N.D.		
20) 3-Chloro-1-propene (Al...	5.37	41	2274	N.D.		
21) Trichlorotrifluoroethane	5.56	151	901	N.D.		
22) Carbon Disulfide	5.58	76	2628	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	6.41	86	794	0.346	ng	# 33
27) 2-Butanone (MEK)	6.66	72	3235	0.343	ng	100
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	7.26	61	12071	1.666	ng	98
31) n-Hexane	7.27	57	11728	0.390	ng	97
32) Chloroform	7.32	83	6366	0.193	ng	96
34) Tetrahydrofuran (THF)	7.75	72	1681	0.178	ng	# 62
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.08	62	352	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	8.83	56	3854	No Calib	#	
41) Benzene	8.86	78	10484	0.167	ng	96
42) Carbon Tetrachloride	9.03	117	2316	N.D.		
43) Cyclohexane	9.18	84	2228	0.095	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	10.05	83	695	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...	10.20	57	6841	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		

Data File : I:\MS09\DATA\2023 03\21\03212338.D
 Acq On : 22 Mar 2023 5:55
 Sample : P2301184-013dil (200ml)
 Misc : S35-02212305

Vial: 16
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 22 06:52:01 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

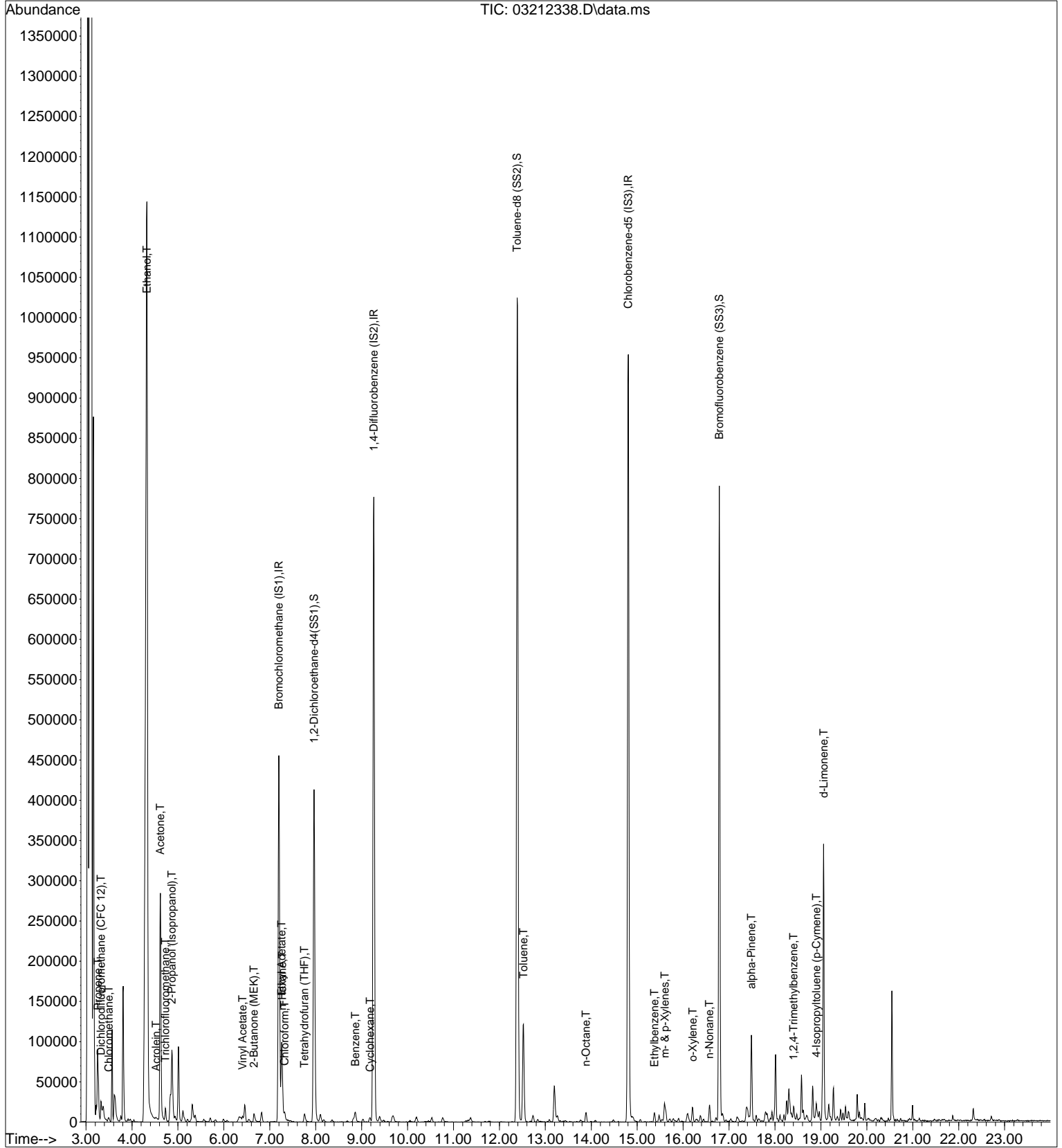
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.53	71	1228	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.31	58	554	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.52	91	107475	1.655 ng		98
59) 2-Hexanone	12.89	43	896	N.D.		
60) Dibromochloromethane	13.05	129	320	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	13.77	43	3465	N.D.		
63) n-Octane	13.89	57	1984	0.140 ng		90
64) Tetrachloroethene	13.99	166	377	N.D.		
65) Chlorobenzene	14.86	112	207	N.D.		
66) Ethylbenzene	15.37	91	8950	0.120 ng		98
67) m- & p-Xylenes	15.60	91	22615	0.370 ng		98
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.07	104	1760	N.D.		
70) o-Xylene	16.21	91	8668	0.144 ng		98
71) n-Nonane	16.57	43	10401	0.273 ng		97
72) 1,1,2,2-Tetrachloroethane	16.11	83	191	N.D.		
74) Cumene	17.00	105	1110	N.D.		
75) alpha-Pinene	17.49	93	44116	1.410 ng		96
76) n-Propylbenzene	17.65	91	2543	N.D.		
77) 3-Ethyltoluene	17.00	105	1110	No Calib	#	
78) 4-Ethyltoluene	17.83	105	2450	N.D.		
79) 1,3,5-Trimethylbenzene	17.92	105	1788	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.00	105	1110	No Calib	#	
82) 1,2,4-Trimethylbenzene	18.41	105	5924	0.092 ng		86
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	18.56	146	110	N.D.		
86) 1,4-Dichlorobenzene	18.63	146	378	N.D.		
87) sec-Butylbenzene	18.72	105	568	N.D.		
88) 4-Isopropyltoluene (p-...	18.90	119	8796	0.121 ng		95
89) 1,2,3-Trimethylbenzene	17.00	105	1110	No Calib	#	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	19.06	68	69506	3.239 ng		97
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.10	58	110	No Calib	#	
94) 1,2,4-Trichlorobenzene	20.82	180	517	N.D.		
95) Naphthalene	20.93	128	2358	N.D.		
96) n-Dodecane	19.04	58	2075	No Calib	#	
97) Hexachlorobutadiene	21.28	225	224	N.D.		
98) Cyclohexanone	15.19	55	167	No Calib	#	
99) tert-Butylbenzene	18.40	119	883	N.D.		
100) n-Butylbenzene	19.36	91	1008	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\21\03212338.D
 Acq On : 22 Mar 2023 5:55
 Sample : P2301184-013dil (200ml)
 Misc : S35-02212305

Vial: 16
 Operator: WA/SR
 Inst : MS09

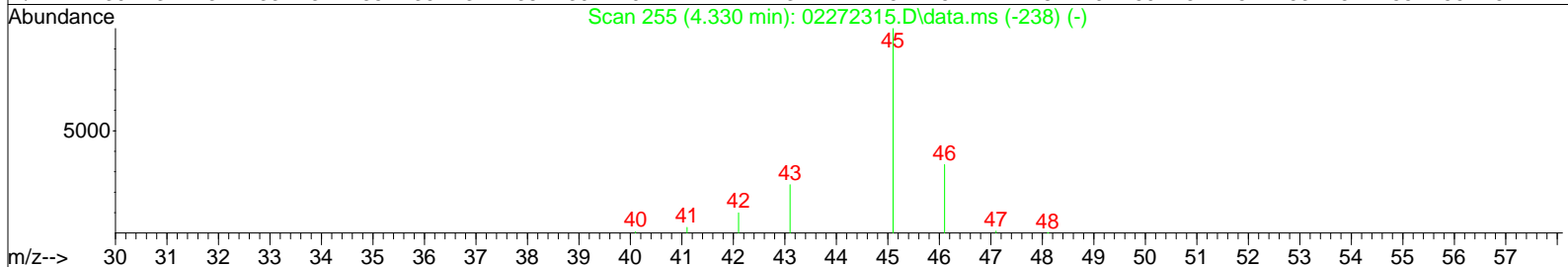
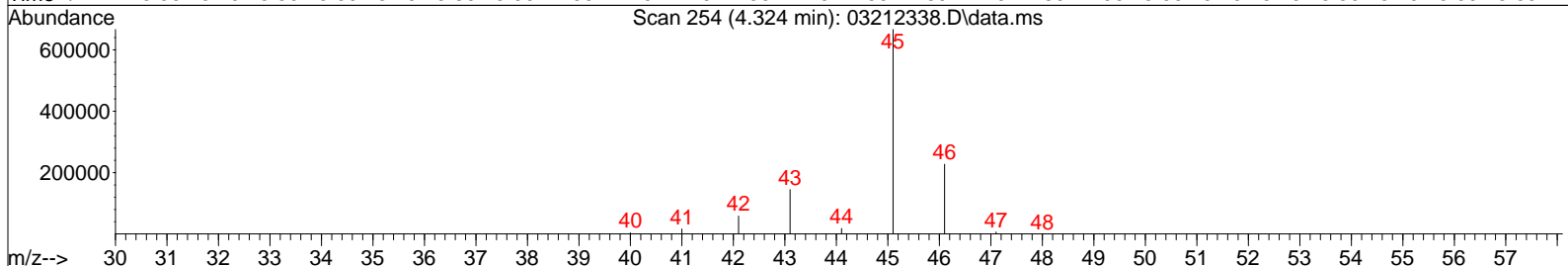
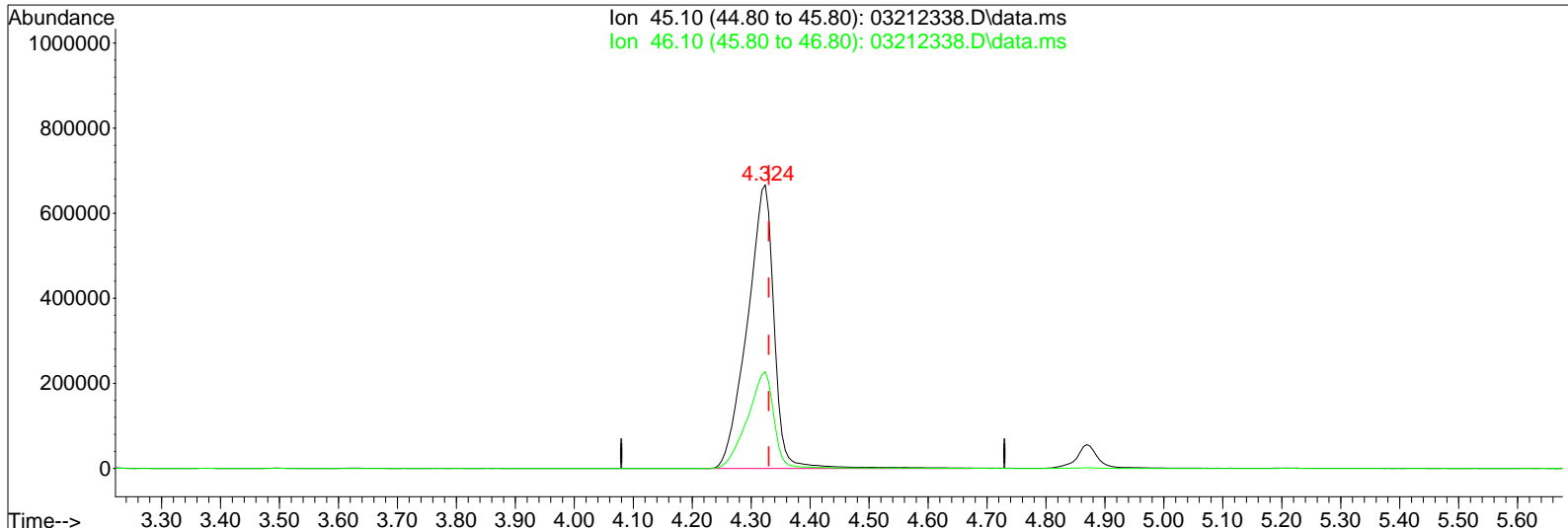
Quant Time: Mar 22 06:52:01 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2023 03\21\03212338.D
 Acq On : 22 Mar 2023 5:55
 Sample : P2301184-013dil (200ml)
 Misc : S35-02212305

Vial: 16
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 22 06:51:25 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



TIC: 03212338.D\data.ms

(10) Ethanol (T)

4.324min (-0.006) 134.80ng


response 2103795

Ion	Exp%	Act%
45.10	100	100
46.10	33.40	33.92
0.00	0.00	0.00
0.00	0.00	0.00

Method Path : I:\MS09\METHODS\

Method File : R9022723.M

Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

 3/1/23

Last Update : Tue Feb 28 08:30:18 2023

Response Via : Initial Calibration

Calibration Files

0.1 =02272310.D 0.2 =02272311.D 0.5 =02272312.D 1.0 =02272313.D 5.0 =02272314.D 25 =02272315.D
100 =02272317.D

Compound	0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD
1) IR Bromochloromethane... -----ISTD-----										
2) T Propene	1.907	1.632	1.608	1.548	1.627	1.658	1.660	1.661	1.663	6.34
3) T Dichlorodifluo...	3.592	2.983	3.394	2.750	2.370	2.893	2.645	2.461	2.886	14.87
4) T Chloromethane	2.286	1.987	2.256	1.858	1.418	1.864	1.603	1.228	1.813	20.83
5) T 1,2-Dichloro-1...	1.597	1.376	1.601	1.253	1.066	1.359	1.310	1.252	1.352	13.29
6) T Vinyl Chloride	1.538	1.432	1.728	1.345	1.121	1.440	1.507	1.513	1.453	11.98
7) T 1,3-Butadiene	0.889	0.786	1.162	0.939	0.810	1.110	1.121	1.249	1.008	17.26
8) T Bromomethane	1.082	0.964	1.161	0.914	0.703	0.929	0.838	0.797	0.923	16.11
9) T Chloroethane	0.787	0.777	0.898	0.822	0.641	0.767	0.679	0.691	0.758	11.08
10) T Ethanol	1.303	1.225	1.398	1.335	1.068	1.141	0.996	1.023	1.186	12.78
11) T Acetonitrile	3.263	3.185	3.409	3.427	2.688	2.933	2.524	2.649	3.010	11.94
12) T Acrolein	0.766	0.743	0.933	0.911	0.728	0.808	0.712	0.724	0.791	10.95
13) T Acetone	1.104	0.973	1.047	0.999	0.760	0.839	0.737	0.731	0.899	16.66
14) T Trichlorofluor...	3.454	2.977	3.457	2.895	2.357	2.847	2.581	2.454	2.878	14.49
15) T 2-Propanol (Is...			4.787	4.684	2.719	3.565	2.760	2.542	3.509	28.89
16) T Acrylonitrile	1.488	1.740	2.081	2.126	1.545	1.685	1.466	1.486	1.702	15.67
17) T 1,1-Dichloroet...	1.290	1.200	1.366	1.235	0.988	1.145	1.049	1.032	1.163	11.48
18) T 2-Methyl-2-Pro...	3.614	3.499	3.874	3.568	2.474	3.504	2.587	1.392	3.064	27.49
19) T Methylene Chlo...	1.401	1.256	1.366	1.296	0.999	1.139	1.027	1.008	1.186	13.88
20) T 3-Chloro-1-pro...	2.356	2.307	2.633	2.620	1.959	2.252	1.858	1.917	2.238	13.58
21) T Trichlorotrifl...	1.539	1.314	1.555	1.231	1.060	1.316	1.234	1.167	1.302	13.21
22) T Carbon Disulfide	4.983	4.561	4.971	4.814	3.765	4.191	3.711	3.550	4.318	13.71
23) T trans-1,2-Dich...	1.952	2.037	2.162	2.141	1.797	1.943	1.747	1.723	1.938	8.81
24) T 1,1-Dichloroet...	2.542	2.571	2.744	2.670	2.200	2.271	2.042	1.990	2.379	12.20
25) T Methyl tert-Bu...	3.965	3.724	4.180	3.895	3.325	3.811	3.432	3.026	3.670	10.36
26) T Vinyl Acetate	0.117	0.147	0.173	0.189	0.185	0.204	0.191	0.188	0.174	16.47
27) T 2-Butanone (MEK)	0.557	0.736	0.794	0.851	0.746	0.740	0.666	0.641	0.716	12.86
28) T cis-1,2-Dichlo...	2.094	2.146	2.241	2.121	1.857	1.880	1.722	1.673	1.967	10.76
29) T Diisopropyl Ether	1.117	1.059	1.121	1.059	0.919	0.948	0.877	0.846	0.993	10.98
30) T Ethyl Acetate	0.488	0.559	0.618	0.652	0.595	0.536	0.487	0.472	0.551	12.15
31) T n-Hexane	2.461	2.501	2.610	2.696	2.345	2.065	1.853	1.767	2.287	15.31
32) T Chloroform	2.803	2.663	2.918	2.640	2.284	2.432	2.229	2.116	2.511	11.50
33) S 1,2-Dichloroet...	2.102	2.171	2.250	2.038	2.093	2.119	2.091	2.066	2.116	3.14
34) T Tetrahydrofura...	0.708	0.723	0.885	0.741	0.719	0.704	0.652	0.608	0.718	11.19
35) T Ethyl tert-But...	1.360	1.375	1.608	1.289	1.207	1.407	1.315	1.261	1.353	8.99
36) T 1,2-Dichloroet...	2.450	2.264	2.656	2.102	1.916	2.168	2.020	1.882	2.182	12.21

37) IR 1,4-Difluorobenzen... -----ISTD-----										
38) T 1,1,1-Trichlor...	0.618	0.562	0.612	0.536	0.481	0.571	0.533	0.498	0.551	8.96
39) T Isopropyl Acetate									0.000	-1.00
40) T 1-Butanol									0.000	-1.00
41) T Benzene	1.238	1.152	1.258	1.094	0.924	1.019	0.950	0.899	1.067	13.18
42) T Carbon Tetrach...	0.496	0.462	0.521	0.453	0.398	0.507	0.478	0.447	0.470	8.37
43) T Cyclohexane	0.463	0.409	0.470	0.408	0.357	0.380	0.354	0.334	0.397	12.65
44) T tert-Amyl Meth...	0.750	0.690	0.800	0.731	0.633	0.771	0.726	0.701	0.725	7.15
45) T 1,2-Dichloropr...	0.307	0.301	0.366	0.338	0.305	0.281	0.259	0.248	0.301	12.94
46) T Bromodichlorom...	0.473	0.423	0.494	0.454	0.390	0.461	0.435	0.410	0.443	7.77
47) T Trichloroethene	0.376	0.318	0.344	0.309	0.258	0.316	0.298	0.282	0.313	11.51
48) T 1,4-Dioxane	0.204	0.176	0.238	0.230	0.190	0.224	0.210	0.200	0.209	10.08
49) T 2,2,4-Trimethy...	1.427	1.370	1.592	1.547	1.179	1.188	1.100	1.034	1.305	16.00
50) T Methyl Methacr...	0.075	0.088	0.110	0.112	0.101	0.112	0.107	0.101	0.101	13.18
51) T n-Heptane	0.266	0.259	0.322	0.319	0.248	0.251	0.236	0.224	0.266	13.58
52) T cis-1,3-Dichlo...	0.384	0.372	0.475	0.466	0.340	0.465	0.438	0.417	0.420	11.89
53) T 4-Methyl-2-pen...	0.230	0.256	0.317	0.305	0.270	0.273	0.255	0.238	0.261	15.85
54) T trans-1,3-Dich...	0.258	0.300	0.406	0.403	0.329	0.475	0.456	0.435	0.383	20.48

55)	T	1,1,2-Trichlor...	0.316	0.279	0.327	0.292	0.215	0.279	0.264	0.250	0.278	12.92
56)	IR	Chlorobenzene-d5 (...	-----ISTD-----									
57)	S	Toluene-d8 (SS2)	4.857	4.699	4.732	4.589	4.797	4.807	4.794	4.723	4.750	1.75
58)	T	Toluene	6.104	5.282	5.812	5.013	4.412	4.948	4.618	4.268	5.057	12.86
59)	T	2-Hexanone	2.986	3.073	3.768	3.306	2.867	3.464	3.155	2.851	3.184	9.92
60)	T	Dibromochlorom...	1.691	1.406	1.640	1.315	1.462	1.715	1.639	1.526	1.549	9.36
61)	T	1,2-Dibromoethane	1.492	1.277	1.560	1.254	1.302	1.502	1.430	1.334	1.394	8.38
62)	T	n-Butyl Acetate	3.115	3.261	4.113	3.975	3.208	3.895	3.527	3.191	3.536	11.38
63)	T	n-Octane	1.145	1.200	1.357	1.105	0.968	1.090	1.010	0.953	1.104	12.13
64)	T	Tetrachloroethene	2.199	1.652	1.871	1.453	1.641	1.819	1.722	1.590	1.743	12.94
65)	T	Chlorobenzene	4.185	3.432	3.646	3.135	2.943	3.337	3.140	2.919	3.342	12.56
66)	T	Ethylbenzene	6.994	5.868	6.881	4.780	5.305	5.963	5.538	5.071	5.800	13.84
67)	T	m- & p-Xylenes	5.776	4.810	5.554	3.841	4.372	4.945	4.590	4.190	4.760	13.86
68)	T	Bromoform	1.683	1.186	1.439	1.162	1.433	1.749	1.666	1.519	1.480	14.92
69)	T	Styrene	2.987	2.735	3.383	2.434	2.921	3.414	3.202	2.938	3.002	10.98
70)	T	o-Xylene	5.590	4.728	5.580	3.819	4.334	4.854	4.518	4.100	4.690	13.71
71)	T	n-Nonane	3.422	3.277	3.915	2.298	2.658	2.967	2.684	2.468	2.961	18.39
72)	T	1,1,2,2-Tetrac...	2.098	1.995	2.360	1.561	1.808	2.054	1.907	1.769	1.944	12.43
73)	S	Bromofluoroben...	2.066	1.799	1.810	1.627	2.079	2.059	2.046	2.008	1.937	8.72
74)	T	Cumene	7.027	5.893	6.754	4.739	5.339	5.981	5.504	4.997	5.779	13.91
75)	T	alpha-Pinene	2.536	2.267	2.580	1.845	2.087	2.892	2.731	2.555	2.437	14.21
76)	T	n-Propylbenzene	8.448	6.777	8.154	5.919	6.454	7.145	6.541	5.892	6.916	13.77
77)	T	3-Ethyltoluene									0.000	-1.00
78)	T	4-Ethyltoluene	6.549	5.435	5.978	4.713	5.196	5.719	5.285	4.856	5.466	11.03
79)	T	1,3,5-Trimethy...	5.890	4.913	5.628	4.253	4.559	5.116	4.720	4.211	4.911	12.41
80)	T	alpha-Methylst...									0.000	-1.00
81)	T	2-Ethyltoluene									0.000	-1.00
82)	T	1,2,4-Trimethy...	5.951	4.886	5.645	4.292	4.679	5.289	4.878	4.282	4.988	12.10
83)	T	n-Decane									0.000	-1.00
84)	T	Benzyl Chloride			1.571	1.473	2.487	3.894	3.797	3.381	2.767	39.23
85)	T	1,3-Dichlorobe...	3.382	2.650	3.157	2.436	2.728	3.165	2.956	2.643	2.890	11.28
86)	T	1,4-Dichlorobe...	3.500	2.676	3.105	2.446	2.682	3.122	2.915	2.625	2.884	11.93
87)	T	sec-Butylbenzene	7.956	6.643	7.599	5.826	6.017	6.647	6.073	5.313	6.509	13.80
88)	T	4-Isopropyltol...	7.050	5.496	6.414	5.055	5.359	5.893	5.383	4.735	5.673	13.27
89)	T	1,2,3-Trimethy...									0.000	-1.00
90)	T	1,2-Dichlorobe...	3.468	2.755	3.161	2.501	2.711	3.063	2.876	2.586	2.890	11.19
91)	T	d-Limonene	1.646	1.559	1.913	1.582	1.563	1.841	1.727	1.535	1.671	8.53
92)	T	1,2-Dibromo-3-...	1.111	0.874	1.092	0.938	1.090	1.291	1.211	1.083	1.086	12.31
93)	T	n-Undecane									0.000	-1.00
94)	T	1,2,4-Trichlor...	2.425	1.786	2.263	1.771	2.199	2.727	2.490	2.071	2.217	15.13
95)	T	Naphthalene	4.091	3.006	4.240	3.590	4.239	5.803	5.415	4.842	4.403	20.92
96)	T	n-Dodecane									0.000	-1.00
97)	T	Hexachlorobuta...	2.611	1.874	1.918	1.478	1.727	1.903	1.732	1.462	1.838	19.55
98)	T	Cyclohexanone									0.000	-1.00
99)	T	tert-Butylbenzene	5.826	4.645	5.352	4.112	4.462	4.957	4.565	4.048	4.746	12.82
100)	T	n-Butylbenzene	5.961	5.104	5.935	5.005	4.807	5.447	4.986	4.334	5.197	10.74
101)	T	1,1,1,2-Tetrac...	1.407	1.165	1.455	1.189	1.228	1.429	1.350	1.247	1.309	8.79

(#) = Out of Range

R9022723.M Wed Mar 01 09:13:08 2023

3/1/23

Primary Source Standards Concentrations (Working & Initial Calibration)

1ng/L Std. ID: 40ng/L Std. ID:
 4ng/L Std. ID: S35-02222302 200ng/L Std. ID: S35-02162303
 20ng/L Std. ID: S35-02222301 1000ng/L Std. ID:

Compounds	Source Std. mg/m ³	Dilution Factors:										Working STD Conc. (ng/L):							
		1		5		25		50		250		1000		20		200		200	
		1000ng/L	200ng/L	40ng/L	20ng/L	4ng/L	2ng/L	4ng/L	2ng/L	0.4ng/L	0.2ng/L	0.05ng/L	0.025ng/L	0.05ng/L	0.025ng/L	0.05ng/L	0.025ng/L	0.05ng/L	0.025ng/L
Propene	1.06	1050	210	42.0	21.0	4.20	2.10	0.42	0.21	0.05	0.025	0.05	0.025	0.05	0.025	0.05	0.025	0.05	0.025
Dichlorodifluoromethane	1.05	1060	212	42.4	21.2	4.24	2.12	0.424	0.212	0.051	0.0255	0.051	0.0255	0.051	0.0255	0.051	0.0255	0.051	0.0255
Chloromethane	1.03	1030	206	41.2	20.6	4.12	2.06	0.412	0.206	0.051	0.0255	0.051	0.0255	0.051	0.0255	0.051	0.0255	0.051	0.0255
Freon-114	1.04	1040	208	41.6	20.8	4.16	2.08	0.416	0.208	0.051	0.0255	0.051	0.0255	0.051	0.0255	0.051	0.0255	0.051	0.0255
Vinyl Chloride	1.01	1010	202	40.4	20.2	4.04	2.02	0.404	0.202	0.0505	0.02525	0.0505	0.02525	0.0505	0.02525	0.0505	0.02525	0.0505	0.02525
1,3-Butadiene	1.06	1060	212	42.4	21.2	4.24	2.12	0.424	0.212	0.051	0.0255	0.051	0.0255	0.051	0.0255	0.051	0.0255	0.051	0.0255
Bromomethane	1.02	1020	204	40.8	20.4	4.08	2.04	0.408	0.204	0.0505	0.02525	0.0505	0.02525	0.0505	0.02525	0.0505	0.02525	0.0505	0.02525
Chloroethane	1.03	1030	206	41.2	20.6	4.12	2.06	0.412	0.206	0.051	0.0255	0.051	0.0255	0.051	0.0255	0.051	0.0255	0.051	0.0255
Ethanol	3.45	3450	690	138.0	69.0	13.80	6.90	1.380	0.690	0.1725	0.08625	0.1725	0.08625	0.1725	0.08625	0.1725	0.08625	0.1725	0.08625
Acetonitrile	0.91	910	182	36.4	18.2	3.64	1.82	0.364	0.182	0.0455	0.02275	0.0455	0.02275	0.0455	0.02275	0.0455	0.02275	0.0455	0.02275
Acrolein	1.93	1930	386	77.2	38.6	7.72	3.86	0.772	0.386	0.0965	0.04825	0.0965	0.04825	0.0965	0.04825	0.0965	0.04825	0.0965	0.04825
Acetone	5.27	5270	1054	210.8	105.4	21.08	10.54	2.108	1.054	0.2635	0.13175	0.2635	0.13175	0.2635	0.13175	0.2635	0.13175	0.2635	0.13175
Trichlorofluoromethane	1.04	1040	208	41.6	20.8	4.16	2.08	0.416	0.208	0.051	0.0255	0.051	0.0255	0.051	0.0255	0.051	0.0255	0.051	0.0255
Isopropanol	2.05	2050	410	82.0	41.0	8.20	4.10	0.820	0.410	0.1025	0.05125	0.1025	0.05125	0.1025	0.05125	0.1025	0.05125	0.1025	0.05125
Acrylonitrile	2.05	2050	410	82.0	41.0	8.20	4.10	0.820	0.410	0.1025	0.05125	0.1025	0.05125	0.1025	0.05125	0.1025	0.05125	0.1025	0.05125
1,1-Dichloroethene	1.08	1080	216	43.2	21.6	4.32	2.16	0.432	0.216	0.0540	0.02700	0.0540	0.02700	0.0540	0.02700	0.0540	0.02700	0.0540	0.02700
tert-Butanol	2.11	2110	422	84.4	42.2	8.44	4.22	0.844	0.422	0.1055	0.05275	0.1055	0.05275	0.1055	0.05275	0.1055	0.05275	0.1055	0.05275
Methylene Chloride	1.06	1060	212	42.4	21.2	4.24	2.12	0.424	0.212	0.0530	0.02650	0.0530	0.02650	0.0530	0.02650	0.0530	0.02650	0.0530	0.02650
Diethyl Chloride	1.06	1060	212	42.4	21.2	4.24	2.12	0.424	0.212	0.0530	0.02650	0.0530	0.02650	0.0530	0.02650	0.0530	0.02650	0.0530	0.02650
1,1,1-Trichlorofluoroethane	1.08	1080	216	43.2	21.6	4.32	2.16	0.432	0.216	0.0540	0.02700	0.0540	0.02700	0.0540	0.02700	0.0540	0.02700	0.0540	0.02700
Carbon Disulfide	2.13	2130	426	85.2	42.6	8.52	4.26	0.852	0.426	0.1065	0.05325	0.1065	0.05325	0.1065	0.05325	0.1065	0.05325	0.1065	0.05325
trans-1,2-Dichloroethene	1.08	1080	216	43.2	21.6	4.32	2.16	0.432	0.216	0.0540	0.02700	0.0540	0.02700	0.0540	0.02700	0.0540	0.02700	0.0540	0.02700
1,1-Dichloroethane	1.07	1070	214	42.8	21.4	4.28	2.14	0.428	0.214	0.0535	0.02675	0.0535	0.02675	0.0535	0.02675	0.0535	0.02675	0.0535	0.02675
Methyl tert-Butyl Ether	1.07	1070	214	42.8	21.4	4.28	2.14	0.428	0.214	0.0535	0.02675	0.0535	0.02675	0.0535	0.02675	0.0535	0.02675	0.0535	0.02675
Vinyl Acetate	2.80	2800	560	112.0	56.0	11.20	5.60	1.120	0.560	0.1400	0.07000	0.1400	0.07000	0.1400	0.07000	0.1400	0.07000	0.1400	0.07000
2-Butanone	2.09	2090	418	83.6	41.8	8.36	4.18	0.836	0.418	0.1045	0.05225	0.1045	0.05225	0.1045	0.05225	0.1045	0.05225	0.1045	0.05225
cis-1,2-Dichloroethene	1.06	1060	212	42.4	21.2	4.24	2.12	0.424	0.212	0.0530	0.02650	0.0530	0.02650	0.0530	0.02650	0.0530	0.02650	0.0530	0.02650
Diisopropyl Ether	2.12	2120	424	84.8	42.4	8.48	4.24	0.848	0.424	0.1060	0.05300	0.1060	0.05300	0.1060	0.05300	0.1060	0.05300	0.1060	0.05300
Ethyl Acetate	4.22	4220	844	168.8	84.4	16.88	8.42	1.688	0.842	0.2110	0.10550	0.2110	0.10550	0.2110	0.10550	0.2110	0.10550	0.2110	0.10550
n-Hexane	1.05	1050	210	42.0	21.0	4.20	2.10	0.420	0.210	0.0525	0.02625	0.0525	0.02625	0.0525	0.02625	0.0525	0.02625	0.0525	0.02625
Chloroform	1.06	1060	212	42.4	21.2	4.24	2.12	0.424	0.212	0.0530	0.02650	0.0530	0.02650	0.0530	0.02650	0.0530	0.02650	0.0530	0.02650
Tetrahydrofuran	2.04	2040	408	81.6	40.8	8.16	4.08	0.816	0.408	0.1020	0.05100	0.1020	0.05100	0.1020	0.05100	0.1020	0.05100	0.1020	0.05100
Ethyl tert-Butyl Ether	2.12	2120	424	84.8	42.4	8.48	4.24	0.848	0.424	0.1060	0.05300	0.1060	0.05300	0.1060	0.05300	0.1060	0.05300	0.1060	0.05300
1,2-Dichloroethane	1.08	1080	216	43.2	21.6	4.32	2.16	0.432	0.216	0.0540	0.02700	0.0540	0.02700	0.0540	0.02700	0.0540	0.02700	0.0540	0.02700
1,1,1-Trichloroethane	1.05	1050	210	42.0	21.0	4.20	2.10	0.420	0.210	0.0525	0.02625	0.0525	0.02625	0.0525	0.02625	0.0525	0.02625	0.0525	0.02625
Benzene	1.07	1070	214	42.8	21.4	4.28	2.14	0.428	0.214	0.0535	0.02675	0.0535	0.02675	0.0535	0.02675	0.0535	0.02675	0.0535	0.02675
Carbon Tetrachloride	1.04	1040	208	41.6	20.8	4.16	2.08	0.416	0.208	0.0520	0.02600	0.0520	0.02600	0.0520	0.02600	0.0520	0.02600	0.0520	0.02600
Cyclohexane	2.10	2100	420	84.0	42.0	8.40	4.20	0.840	0.420	0.1050	0.05250	0.1050	0.05250	0.1050	0.05250	0.1050	0.05250	0.1050	0.05250
tert-Amyl Methyl Ether	2.12	2120	424	84.8	42.4	8.48	4.24	0.848	0.424	0.1060	0.05300	0.1060	0.05300	0.1060	0.05300	0.1060	0.05300	0.1060	0.05300
1,2-Dichloropropane	1.05	1050	210	42.0	21.0	4.20	2.10	0.420	0.210	0.0525	0.02625	0.0525	0.02625	0.0525	0.02625	0.0525	0.02625	0.0525	0.02625
Bromodichloromethane	1.07	1070	214	42.8	21.4	4.28	2.14	0.428	0.214	0.0535	0.02675	0.0535	0.02675	0.0535	0.02675	0.0535	0.02675	0.0535	0.02675
Trichloroethene	1.05	1050	210	42.0	21.0	4.20	2.10	0.420	0.210	0.0525	0.02625	0.0525	0.02625	0.0525	0.02625	0.0525	0.02625	0.0525	0.02625
1,4-Dioxane	1.06	1060	212	42.4	21.2	4.24	2.12	0.424	0.212	0.0530	0.02650	0.0530	0.02650	0.0530	0.02650	0.0530	0.02650	0.0530	0.02650
Isocane	1.08	1080	216	43.2	21.6	4.32	2.16	0.432	0.216	0.0540	0.02700	0.0540	0.02700	0.0540	0.02700	0.0540	0.02700	0.0540	0.02700
Methyl Methacrylate	2.12	2120	424	84.8	42.4	8.48	4.24	0.848	0.424	0.1060	0.05300	0.1060	0.05300	0.1060	0.05300	0.1060	0.05300	0.1060	0.05300
n-Heptane	1.06	1060	212	42.4	21.2	4.24	2.12	0.424	0.212	0.0530	0.02650	0.0530	0.02650	0.0530	0.02650	0.0530	0.02650	0.0530	0.02650

Primary Source Standards Concentrations (Working & Initial Calibration)

1ng/L Std. ID: S35-02222302
 4ng/L Std. ID: S35-02162303
 20ng/L Std. ID: S35-02222301

40ng/L Std. ID: S35-02162303
 200ng/L Std. ID: S35-02162303
 1000ng/L Std. ID: S35-02162303

Compounds	Source Std. mg/m ³	Dilution Factors:										Working STD Conc. (ng/L):									
		1		5		25		50		250		1000		20		20		200		200	
		1000ng/L	200ng/L	40ng/L	20ng/L	4ng/L	2ng/L	1ng/L	0.25ng/L	0.05ng/L	0.025ng/L	0.05ng/L	0.025ng/L	0.05ng/L	0.05ng/L	0.025ng/L	0.05ng/L	0.05ng/L	0.025ng/L	0.05ng/L	0.05ng/L
cis-1,3-Dichloropropene	1.08	1080	216	43.2	21.6	4.32	1.08														
4-Methyl-2-pentanone	2.15	2150	430	86.0	43.0	8.60	2.15														
trans-1,3-Dichloropropene	1.02	1020	204	40.8	20.4	4.08	1.02														
1,1,2-Trichloroethane	1.06	1060	212	42.4	21.2	4.24	1.06														
Toluene	1.05	1050	210	42.0	21.0	4.20	1.05														
2-Hexanone	2.12	2120	424	84.8	42.4	8.48	2.12														
Dibromochloromethane	1.08	1080	216	43.2	21.6	4.32	1.08														
1,2-Dibromoethane	1.04	1040	208	41.6	20.8	4.16	1.04														
n-Butyl Acetate	2.05	2050	410	82.0	41.0	8.20	2.05														
n-Octane	1.07	1070	214	42.8	21.4	4.28	1.07														
Tetrachloroethene	1.06	1060	212	42.4	21.2	4.24	1.06														
Chlorobenzene	1.06	1060	212	42.4	21.2	4.24	1.06														
Ethylbenzene	1.05	1050	210	42.0	21.0	4.20	1.05														
m-&p-Xylene	2.10	2100	420	84.0	42.0	8.40	2.10														
Bromoforn	1.07	1070	214	42.8	21.4	4.28	1.07														
Styrene	1.06	1060	212	42.4	21.2	4.24	1.06														
o-Xylene	1.06	1060	212	42.4	21.2	4.24	1.06														
n-Nonane	1.06	1060	212	42.4	21.2	4.24	1.06														
1,1,2,2-Tetrachloroethane	1.06	1060	212	42.4	21.2	4.24	1.06														
Cumene	1.07	1070	214	42.8	21.4	4.28	1.07														
Alpha-Pinene	1.09	1090	218	43.6	21.8	4.36	1.09														
n-Propylbenzene	1.07	1070	214	42.8	21.4	4.28	1.07														
4-Ethyltoluene	1.09	1090	218	43.6	21.8	4.36	1.09														
1,3,5-Trimethylbenzene	1.06	1060	212	42.4	21.2	4.24	1.06														
1,2,4-Trimethylbenzene	1.05	1050	210	42.0	21.0	4.20	1.05														
Benzyl Chloride	2.12	2120	424	84.8	42.4	8.48	2.12														
1,3-Dichlorobenzene	1.06	1060	212	42.4	21.2	4.24	1.06														
1,4-Dichlorobenzene	1.06	1060	212	42.4	21.2	4.24	1.06														
sec-Butylbenzene	1.06	1060	212	42.4	21.2	4.24	1.06														
p-Isopropyltoluene	1.06	1060	212	42.4	21.2	4.24	1.06														
1,2-Dichlorobenzene	1.07	1070	214	42.8	21.4	4.28	1.07														
d-Limonene	1.07	1070	214	42.8	21.4	4.28	1.07														
1,2-Dibromo-3-chloropropane	2.10	2100	420	84.0	42.0	8.40	2.10														
1,2,4-Trichlorobenzene	2.09	2090	418	83.6	41.8	8.36	2.09														
Naphthalene	1.10	1100	220	44.0	22.0	4.40	1.10														
Hexachloro-1,3-butadiene	1.06	1060	212	42.4	21.2	4.24	1.06														
tert-Butylbenzene	1.06	1060	212	42.4	21.2	4.24	1.06														
n-Butylbenzene	1.07	1070	214	42.8	21.4	4.28	1.07														
1,1,1,2-Tetrachloroethane	1.06	1060	212	42.4	21.2	4.24	1.06														

Method : I:\MS09\METHODS\R9022723.M (RTE Integrator)
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration

 3/1/23

#	ID	Conc	ISTD Conc	Path\File
1	0.1	0	13	I:\MS09\DATA\2023_02\27\02272310.D
2	0.2	0	13	I:\MS09\DATA\2023_02\27\02272311.D
3	0.5	1	13	I:\MS09\DATA\2023_02\27\02272312.D
4	1.0	1	13	I:\MS09\DATA\2023_02\27\02272313.D
5	5.0	5	13	I:\MS09\DATA\2023_02\27\02272314.D
6	25	26	13	I:\MS09\DATA\2023_02\27\02272315.D
7	50	53	13	I:\MS09\DATA\2023_02\27\02272316.D
8	100	105	13	I:\MS09\DATA\2023_02\27\02272317.D

#	ID	Update Time	Quant Time	Acquisition Time
1	0.1	Feb 28 08:28 2023	Feb 27 17:15 2023	27 Feb 2023 14:00
2	0.2	Feb 28 08:29 2023	Feb 27 17:14 2023	27 Feb 2023 14:32
3	0.5	Feb 28 08:29 2023	Feb 27 17:12 2023	27 Feb 2023 15:04
4	1.0	Feb 28 08:29 2023	Feb 27 17:11 2023	27 Feb 2023 15:36
5	5.0	Feb 28 08:29 2023	Feb 27 17:09 2023	27 Feb 2023 16:07
6	25	Feb 28 08:29 2023	Feb 27 17:08 2023	27 Feb 2023 16:39
7	50	Feb 28 08:30 2023	Feb 28 08:25 2023	27 Feb 2023 17:11
8	100	Feb 28 08:30 2023	Feb 28 08:27 2023	27 Feb 2023 17:43

R9022723.M

Wed Mar 01 09:14:41 2023

Data File : I:\MS09\DATA\2023 02\27\02272310.D
 Acq On : 27 Feb 2023 14:00
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S35-02212305/S35-02222302 (3/18)

Vial: 5
 Operator: SC
 Inst : MS09

Quant Time: Feb 27 17:15:29 2023

 2/27/23

Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Feb 27 17:09:40 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	7.20	130	145483	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	9.26	114	629040	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.80	54	143296	12.500	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.96	65	305780	12.401	ng	-0.04
Spiked Amount	12.500	Range 70 - 130	Recovery =	99.20%		
57) Toluene-d8 (SS2)	12.39	98	696036	12.631	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery =	101.04%		
73) Bromofluorobenzene (SS3)	16.79	174	296117	12.543	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery =	100.32%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.30	42	2330	0.121	ng	97
3) Dichlorodifluoromethan...	3.36	85	4432	0.132	ng	97
4) Chloromethane	3.50	50	2741	0.126	ng	94
5) 1,2-Dichloro-1,1,2,2-t...	3.60	135	1933	0.122	ng	99
6) Vinyl Chloride	3.69	62	1808	0.108	ng	95
7) 1,3-Butadiene	3.81	54	1097	0.085	ng	# 80
8) Bromomethane	4.01	94	1284	0.119	ng	98
9) Chloroethane	4.15	64	943	0.106	ng	# 43
10) Ethanol	4.28	45	5232	0.394	ng	95
11) Acetonitrile	4.45	41	3456	0.101	ng	80
12) Acrolein	4.53	56	1721	0.183	ng	91
13) Acetone	4.62	58	6773	0.694	ng	92
14) Trichlorofluoromethane	4.74	101	4181	0.126	ng	95
15) 2-Propanol (Isopropanol)	4.83	45	12731	0.307	ng	90
16) Acrylonitrile	4.99	53	3551	0.181	ng	96
17) 1,1-Dichloroethene	5.25	96	1622	0.122	ng	96
18) 2-Methyl-2-Propanol (t...	5.38	59	8876	0.218	ng	93
19) Methylene Chloride	5.34	84	1729	0.130	ng	100
20) 3-Chloro-1-propene (Al...	5.44	41	2907	0.111	ng	84
21) Trichlorotrifluoroethane	5.57	151	1934	0.126	ng	92
22) Carbon Disulfide	5.60	76	12353	0.253	ng	94
23) trans-1,2-Dichloroethene	6.12	61	2454	0.109	ng	99
24) 1,1-Dichloroethane	6.29	63	3166	0.120	ng	96
25) Methyl tert-Butyl Ether	6.37	73	4938	0.111	ng	99
26) Vinyl Acetate	6.43	86	381	0.160	ng	# 1
27) 2-Butanone (MEK)	6.66	72	1356	0.158	ng	# 6
28) cis-1,2-Dichloroethene	7.05	61	2583	0.118	ng	99
29) Diisopropyl Ether	7.28	87	2757	0.250	ng	# 92
30) Ethyl Acetate	7.27	61	2395	0.384	ng	94
31) n-Hexane	7.27	57	3007	0.125	ng	# 91
32) Chloroform	7.32	83	3458	0.122	ng	95
34) Tetrahydrofuran (THF)	7.76	72	1680	0.205	ng	# 90
35) Ethyl tert-Butyl Ether	7.80	87	3355	0.205	ng	95
36) 1,2-Dichloroethane	8.07	62	3079	0.122	ng	94
38) 1,1,1-Trichloroethane	8.36	97	3267	0.114	ng	99
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	8.87	78	6666	0.130	ng	96
42) Carbon Tetrachloride	9.03	117	2598	0.102	ng	100
43) Cyclohexane	9.18	84	4898	0.256	ng	94
44) tert-Amyl Methyl Ether	9.57	73	8006	0.206	ng	97
45) 1,2-Dichloropropane	9.82	63	1621	0.115	ng	96
46) Bromodichloromethane	10.04	83	2545	0.110	ng	97
47) Trichloroethene	10.11	130	1985	0.125	ng	99
48) 1,4-Dioxane	10.12	88	1088	0.097	ng	# 72
49) 2,2,4-Trimethylpentane...	10.20	57	7758	0.130	ng	98
50) Methyl Methacrylate	10.38	100	795	0.140	ng	# 57

Data File : I:\MS09\DATA\2023 02\27\02272310.D
 Acq On : 27 Feb 2023 14:00
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S35-02212305/S35-02222302 (3/18)

Vial: 5
 Operator: SC
 Inst : MS09

Quant Time: Feb 27 17:15:29 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Feb 27 17:09:40 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
51) n-Heptane	10.53	71	1420	0.112	ng	94
52) cis-1,3-Dichloropropene	11.23	75	2086	0.089	ng	96
53) 4-Methyl-2-pentanone	11.30	58	2493	0.181	ng	85
54) trans-1,3-Dichloropropene	11.94	75	1322	0.055	ng	74
55) 1,1,2-Trichloroethane	12.14	97	1687	0.120	ng	91
58) Toluene	12.52	91	7347	0.130	ng	99
59) 2-Hexanone	12.91	43	7257	0.183	ng	90
60) Dibromochloromethane	13.04	129	2093	0.106	ng	96
61) 1,2-Dibromoethane	13.36	107	1779	0.103	ng	96
62) n-Butyl Acetate	13.77	43	7321	0.164	ng	93
63) n-Octane	13.89	57	1404	0.112	ng	98
64) Tetrachloroethene	13.99	166	2672	0.128	ng	100
65) Chlorobenzene	14.86	112	5086	0.133	ng	99
66) Ethylbenzene	15.38	91	8418	0.123	ng	100
67) m- & p-Xylenes	15.62	91	13904	0.245	ng	99
68) Bromoform	15.63	173	2065	0.103	ng	87
69) Styrene	16.07	104	3630	0.093	ng	98
70) o-Xylene	16.21	91	6793	0.122	ng	100
71) n-Nonane	16.57	43	4158	0.122	ng	98
72) 1,1,2,2-Tetrachloroethane	16.19	83	2549	0.108	ng	98
74) Cumene	17.00	105	8619	0.126	ng	99
75) alpha-Pinene	17.49	93	3169	0.096	ng	88
76) n-Propylbenzene	17.64	91	10362	0.127	ng	96
77) 3-Ethyltoluene	17.00	105	8619	No Calib		
78) 4-Ethyltoluene	17.83	105	8183	0.125	ng	96
79) 1,3,5-Trimethylbenzene	17.93	105	7157	0.122	ng	96
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.00	105	8619	No Calib		
82) 1,2,4-Trimethylbenzene	18.41	105	7163	0.118	ng	100
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	18.54	91	1964	0.044	ng	90
85) 1,3-Dichlorobenzene	18.55	146	4110	0.113	ng	96
86) 1,4-Dichlorobenzene	18.63	146	4253	0.119	ng	96
87) sec-Butylbenzene	18.71	105	9668	0.127	ng	97
88) 4-Isopropyltoluene (p-...	18.91	119	8567	0.127	ng	98
89) 1,2,3-Trimethylbenzene	17.00	105	8619	No Calib		
90) 1,2-Dichlorobenzene	19.01	146	4254	0.121	ng	96
91) d-Limonene	19.06	68	2019	0.096	ng	96
92) 1,2-Dibromo-3-Chloropr...	19.49	157	2674	0.181	ng	# 85
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	20.82	180	5811	0.186	ng	97
95) Naphthalene	20.95	128	5159	0.078	ng	77
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	21.28	225	3173	0.145	ng	97
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	18.40	119	7079	0.125	ng	100
100) n-Butylbenzene	19.37	91	7312	0.117	ng	91
101) 1,1,1,2-Tetrachloroethane	14.85	131	1710	0.104	ng	94

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

Data File : I:\MS09\DATA\2023 02\27\02272311.D
 Acq On : 27 Feb 2023 14:32
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S35-02212305/S35-02222302 (3/18)

Vial: 5
 Operator: SC
 Inst : MS09

Quant Time: Feb 27 17:14:13 2023

2/27/23

Quant Method : I:\MS09\METHODS\R9022723.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Mon Feb 27 17:09:40 2023

Response via : Initial Calibration

DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	7.20	130	153699	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	9.26	114	691223	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.80	54	165380	12.500	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.96	65	333657	12.808	ng	-0.04
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.48%
57) Toluene-d8 (SS2)	12.39	98	777193	12.221	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	97.76%
73) Bromofluorobenzene (SS3)	16.79	174	297532	10.920	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	87.36%

Target Compounds

						Qvalue
2) Propene	3.30	42	4215	0.207	ng	94
3) Dichlorodifluoromethan...	3.36	85	7775	0.219	ng	97
4) Chloromethane	3.51	50	5034m	0.220	ng	
5) 1,2-Dichloro-1,1,2,2-t...	3.60	135	3518	0.211	ng	97
6) Vinyl Chloride	3.68	62	3556	0.201	ng	97
7) 1,3-Butadiene	3.80	54	2050	0.150	ng	# 85
8) Bromomethane	4.01	94	2417	0.212	ng	91
9) Chloroethane	4.15	64	1968	0.209	ng	93
10) Ethanol	4.27	45	10397	0.741	ng	94
11) Acetonitrile	4.44	41	7128	0.197	ng	# 60
12) Acrolein	4.52	56	3525	0.355	ng	98
13) Acetone	4.62	58	12612	1.223	ng	92
14) Trichlorofluoromethane	4.74	101	7613	0.218	ng	98
15) 2-Propanol (Isopropanol)	4.83	45	22098	0.504	ng	82
16) Acrylonitrile	4.98	53	8774	0.423	ng	86
17) 1,1-Dichloroethene	5.25	96	3188	0.226	ng	95
18) 2-Methyl-2-Propanol (t...	5.38	59	18156m	0.422	ng	
19) Methylene Chloride	5.33	84	3273	0.234	ng	85
20) 3-Chloro-1-propene (Al...	5.44	41	6015	0.217	ng	95
21) Trichlorotrifluoroethane	5.56	151	3489	0.216	ng	90
22) Carbon Disulfide	5.60	76	23891	0.464	ng	96
23) trans-1,2-Dichloroethene	6.12	61	5411	0.227	ng	96
24) 1,1-Dichloroethane	6.29	63	6766	0.242	ng	98
25) Methyl tert-Butyl Ether	6.37	73	9800	0.209	ng	99
26) Vinyl Acetate	6.42	86	1009	0.401	ng	# 72
27) 2-Butanone (MEK)	6.66	72	3782	0.416	ng	# 78
28) cis-1,2-Dichloroethene	7.04	61	5595	0.242	ng	92
29) Diisopropyl Ether	7.26	87	5521	0.474	ng	# 82
30) Ethyl Acetate	7.27	61	5805	0.881	ng	94
31) n-Hexane	7.27	57	6457	0.254	ng	98
32) Chloroform	7.33	83	6942	0.232	ng	98
34) Tetrahydrofuran (THF)	7.75	72	3628	0.419	ng	# 79
35) Ethyl tert-Butyl Ether	7.80	87	7168	0.414	ng	94
36) 1,2-Dichloroethane	8.08	62	6012	0.226	ng	99
38) 1,1,1-Trichloroethane	8.36	97	6521	0.206	ng	96
39) Isopropyl Acetate	9.26	61	23974	No Calib	#	
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	8.87	78	13628	0.242	ng	98
42) Carbon Tetrachloride	9.03	117	5311	0.189	ng	97
43) Cyclohexane	9.18	84	9490	0.452	ng	95
44) tert-Amyl Methyl Ether	9.57	73	16169	0.379	ng	95
45) 1,2-Dichloropropane	9.83	63	3500	0.226	ng	100
46) Bromodichloromethane	10.04	83	5007	0.196	ng	100
47) Trichloroethene	10.11	130	3693	0.211	ng	100
48) 1,4-Dioxane	10.13	88	2062	0.167	ng	91
49) 2,2,4-Trimethylpentane...	10.20	57	16358	0.249	ng	99
50) Methyl Methacrylate	10.38	100	2058	0.331	ng	# 83

Data File : I:\MS09\DATA\2023 02\27\02272311.D
 Acq On : 27 Feb 2023 14:32
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S35-02212305/S35-02222302 (3/18)

Vial: 5
 Operator: SC
 Inst : MS09

Quant Time: Feb 27 17:14:13 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Feb 27 17:09:40 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

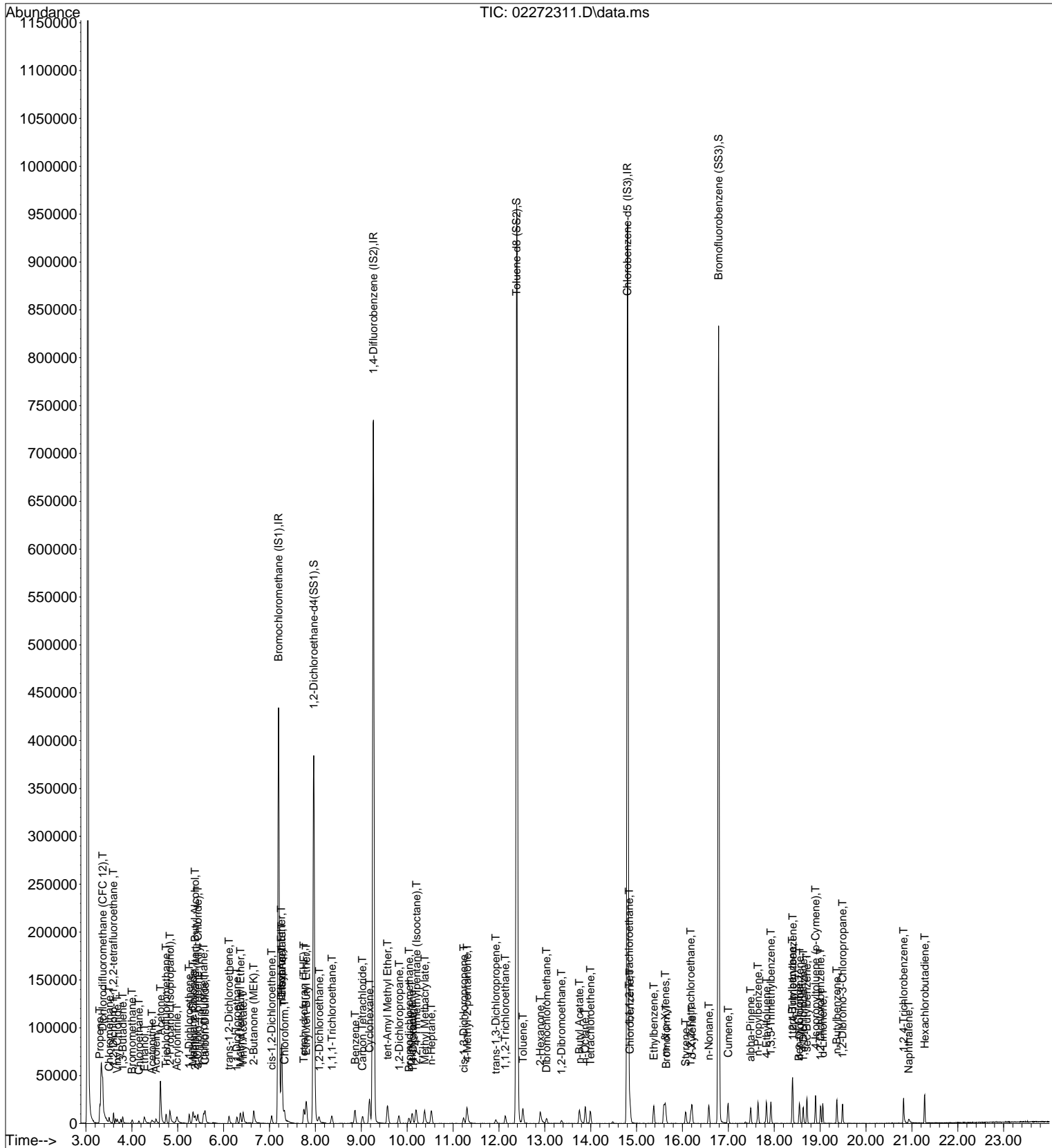
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.52	71	3033	0.218	ng	93
52) cis-1,3-Dichloropropene	11.23	75	4446	0.173	ng	91
53) 4-Methyl-2-pentanone	11.31	58	6078	0.402	ng	90
54) trans-1,3-Dichloropropene	11.93	75	3382	0.129	ng	95
55) 1,1,2-Trichloroethane	12.14	97	3267	0.211	ng	94
58) Toluene	12.52	91	14676	0.224	ng	95
59) 2-Hexanone	12.90	43	17237	0.376	ng	88
60) Dibromochloromethane	13.03	129	4019	0.177	ng	98
61) 1,2-Dibromoethane	13.36	107	3514	0.177	ng	98
62) n-Butyl Acetate	13.76	43	17690	0.343	ng	99
63) n-Octane	13.87	57	3398	0.236	ng	89
64) Tetrachloroethene	13.99	166	4634	0.193	ng	97
65) Chlorobenzene	14.86	112	9626	0.218	ng	99
66) Ethylbenzene	15.37	91	16303	0.207	ng	98
67) m- & p-Xylenes	15.62	91	26726	0.408	ng	100
68) Bromoform	15.65	173	3358	0.145	ng	100
69) Styrene	16.07	104	7671	0.170	ng	97
70) o-Xylene	16.21	91	13260	0.206	ng	98
71) n-Nonane	16.58	43	9192	0.234	ng	97
72) 1,1,2,2-Tetrachloroethane	16.18	83	5595	0.206	ng	100
74) Cumene	17.00	105	16686	0.211	ng	97
75) alpha-Pinene	17.49	93	6539	0.171	ng	93
76) n-Propylbenzene	17.64	91	19187	0.203	ng	99
77) 3-Ethyltoluene	17.00	105	16686	No Calib		
78) 4-Ethyltoluene	17.83	105	15675	0.207	ng	96
79) 1,3,5-Trimethylbenzene	17.93	105	13781	0.204	ng	96
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.00	105	16686	No Calib		
82) 1,2,4-Trimethylbenzene	18.41	105	13576	0.194	ng	99
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	18.54	91	4499	0.087	ng	93
85) 1,3-Dichlorobenzene	18.55	146	7434	0.178	ng	98
86) 1,4-Dichlorobenzene	18.63	146	7505	0.182	ng	97
87) sec-Butylbenzene	18.71	105	18632	0.212	ng	97
88) 4-Isopropyltoluene (p-...	18.90	119	15415	0.198	ng	99
89) 1,2,3-Trimethylbenzene	17.00	105	16686	No Calib		
90) 1,2-Dichlorobenzene	19.01	146	7801	0.193	ng	96
91) d-Limonene	19.06	68	4413	0.181	ng	95
92) 1,2-Dibromo-3-Chloropr...	19.49	157	4857	0.284	ng	# 80
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	20.82	180	9879	0.274	ng	98
95) Naphthalene	20.93	128	8749	0.114	ng	88
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	21.28	225	5255	0.209	ng	97
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	18.39	119	13028	0.199	ng	98
100) n-Butylbenzene	19.37	91	14451	0.201	ng	96
101) 1,1,1,2-Tetrachloroethane	14.84	131	3269	0.173	ng	97

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

Data File : I:\MS09\DATA\2023 02\27\02272311.D
Acq On : 27 Feb 2023 14:32
Sample : 0.2ng TO-15 ICAL STD
Misc : S35-02212305/S35-02222302 (3/18)

Vial: 5
Operator: SC
Inst : MS09

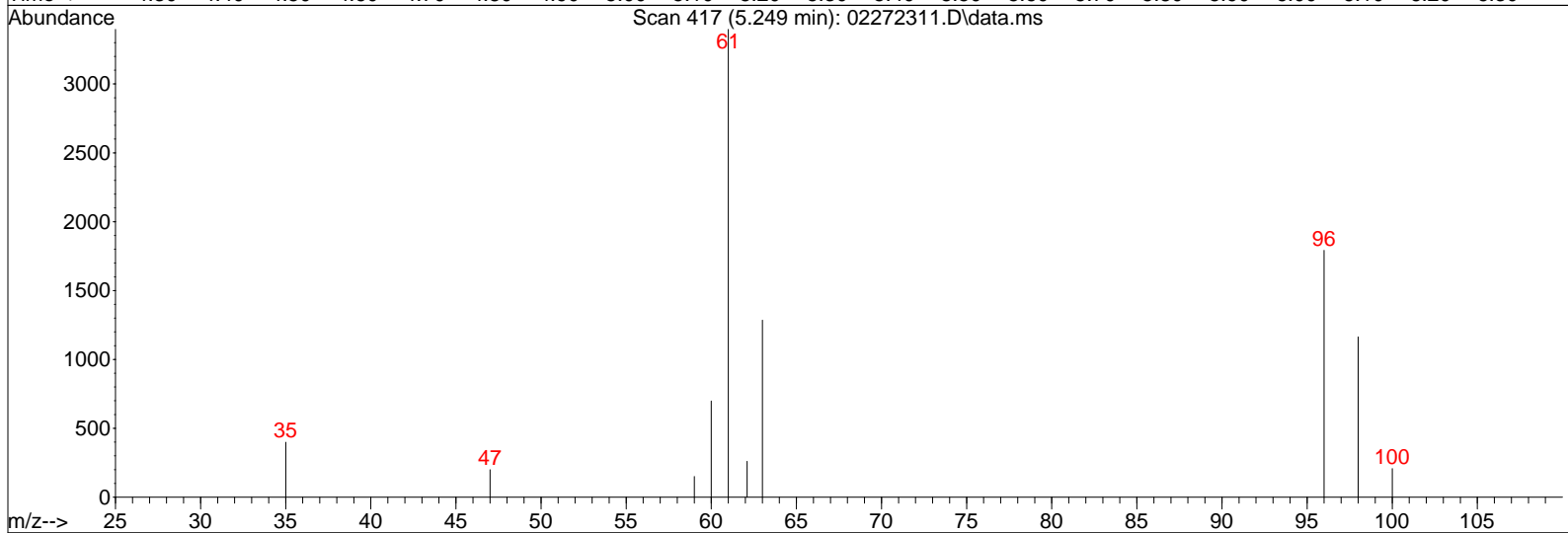
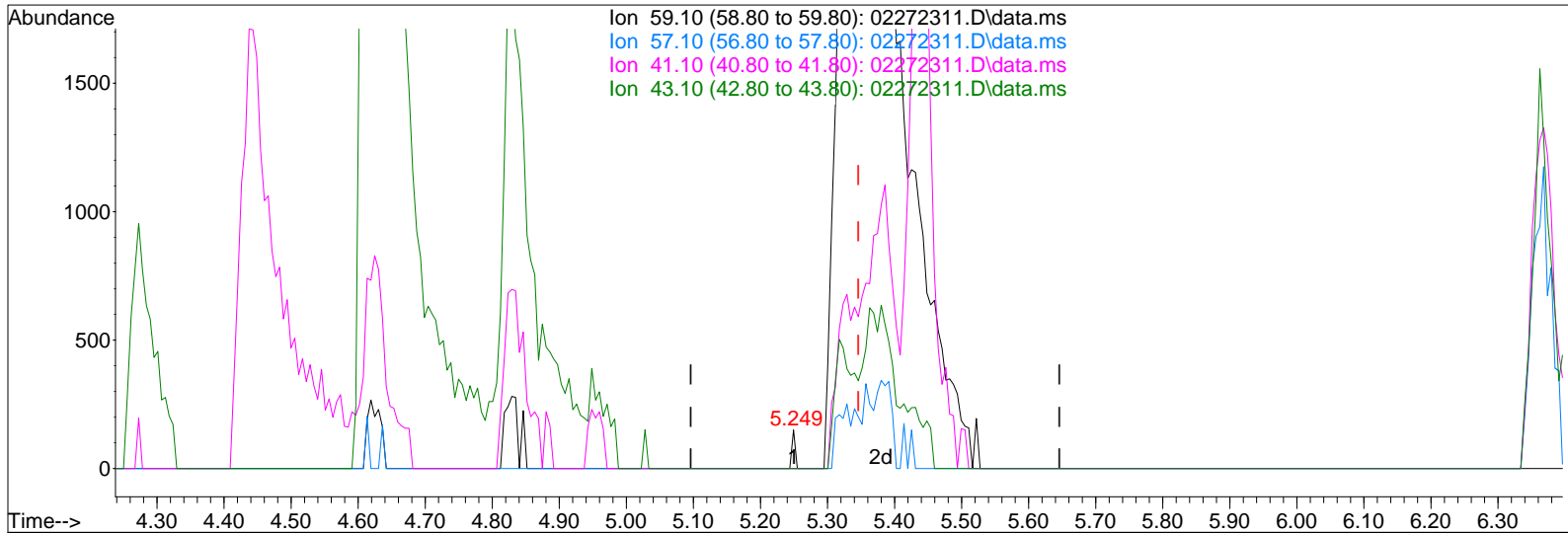
Quant Time: Feb 27 17:14:13 2023
Quant Method : I:\MS09\METHODS\R9022723.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Feb 27 17:09:40 2023
Response via : Initial Calibration
DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2023 02\27\02272311.D
 Acq On : 27 Feb 2023 14:32
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S35-02212305/S35-02222302 (3/18)

Vial: 5
 Operator: SC
 Inst : MS09

Quant Time: Feb 27 17:13:23 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Feb 27 17:09:40 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



TIC: 02272311.D\data.ms

(18) 2-Methyl-2-Propanol (tert-Butyl Alcohol (T))

5.249min (-0.097) 0.00ng

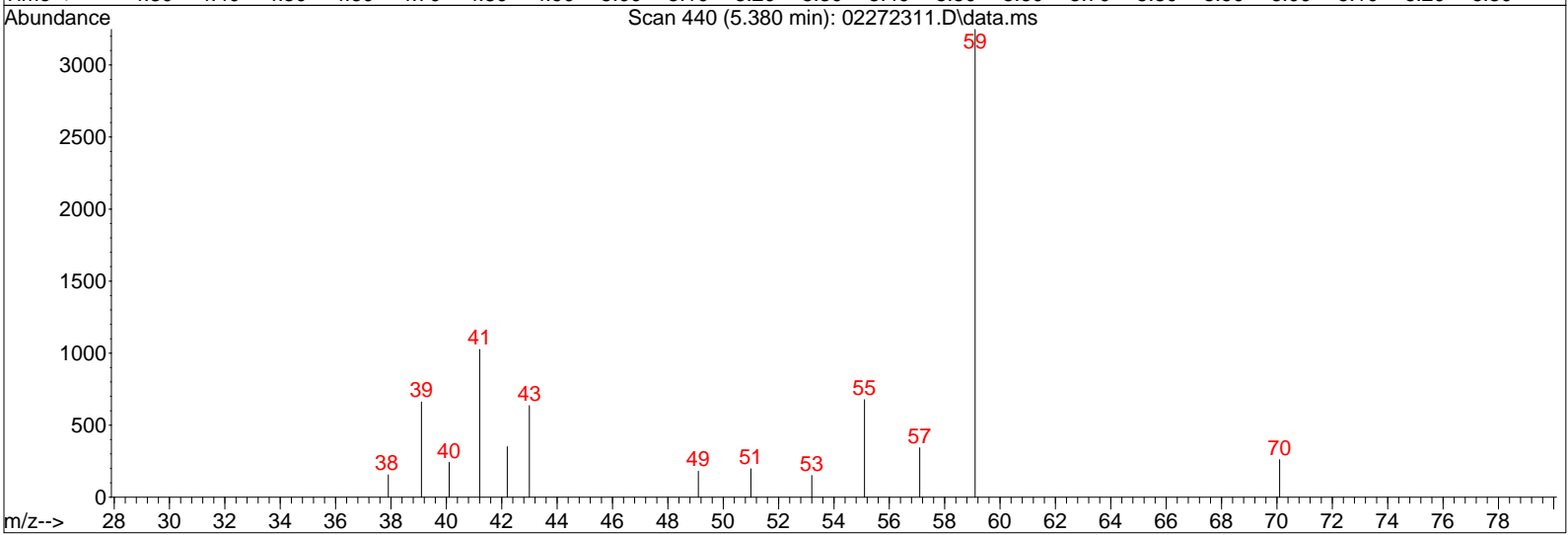
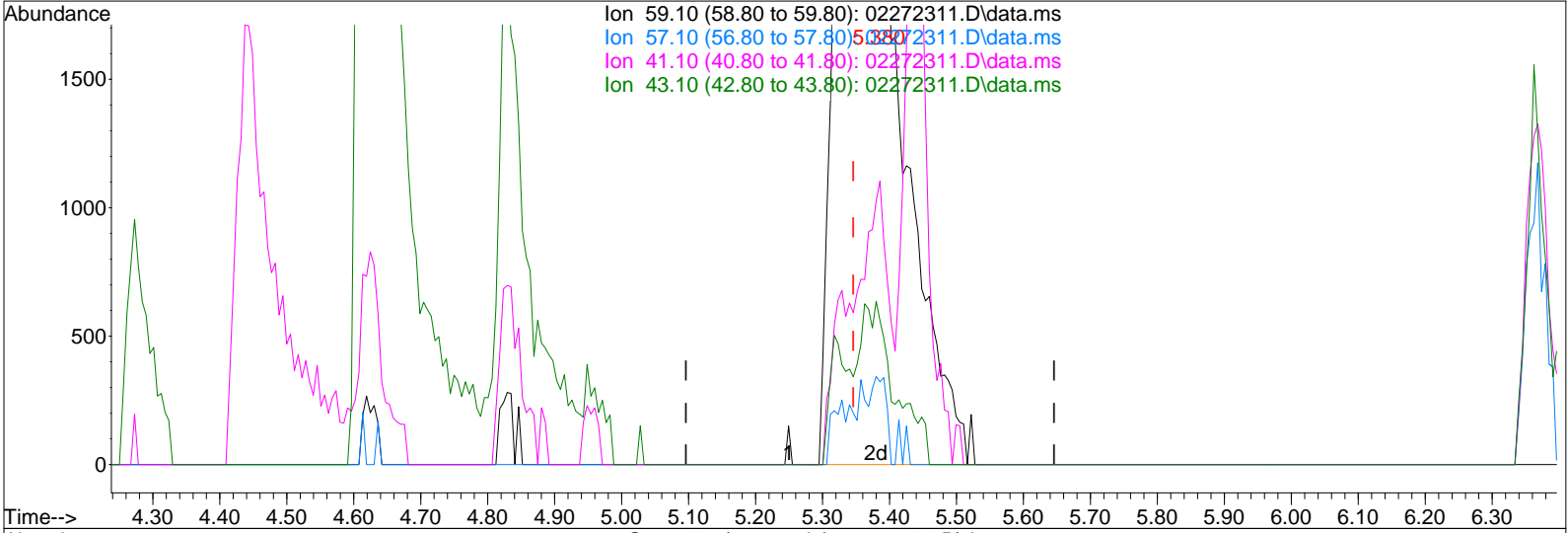
response 51

Ion	Exp%	Act%
59.10	100	100
57.10	10.50	0.00
41.10	24.60	0.00#
43.10	18.20	0.00

Data File : I:\MS09\DATA\2023 02\27\02272311.D
 Acq On : 27 Feb 2023 14:32
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S35-02212305/S35-02222302 (3/18)

Vial: 5
 Operator: SC
 Inst : MS09

Quant Time: Feb 27 17:13:23 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Feb 27 17:09:40 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



TIC: 02272311.D\data.ms

(18) 2-Methyl-2-Propanol (tert-Butyl Alcohol (T))

5.380min (+0.034) 0.42ng m

response 18156

MP

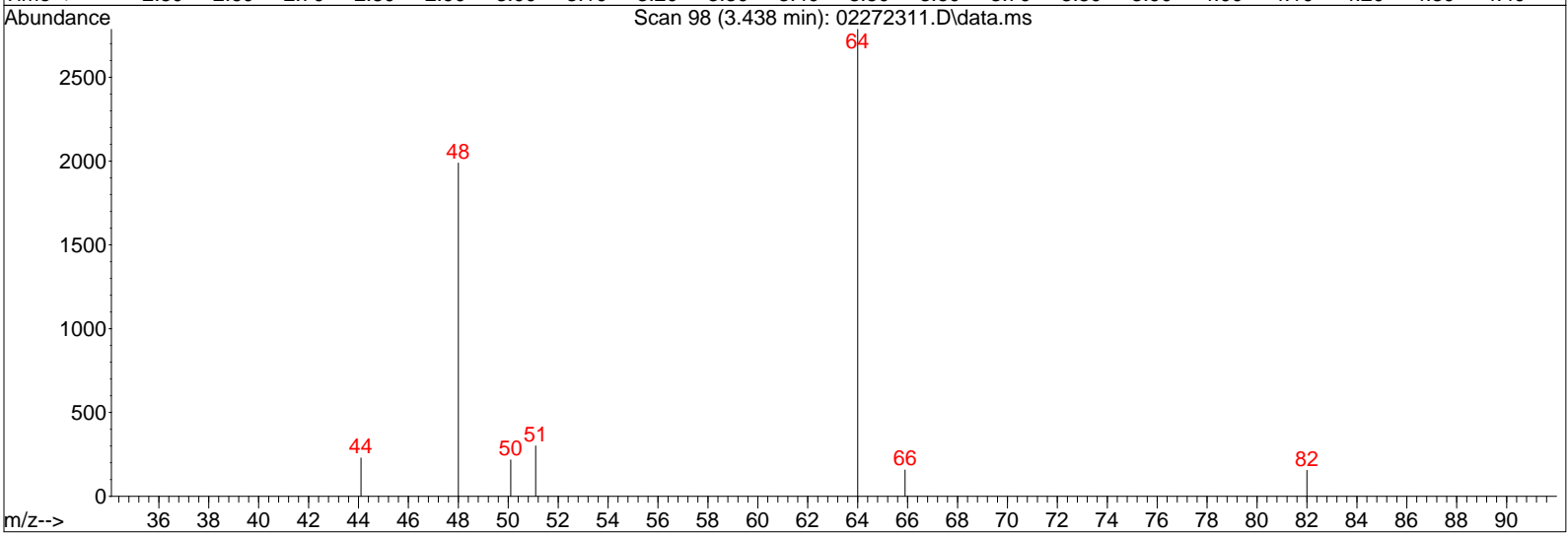
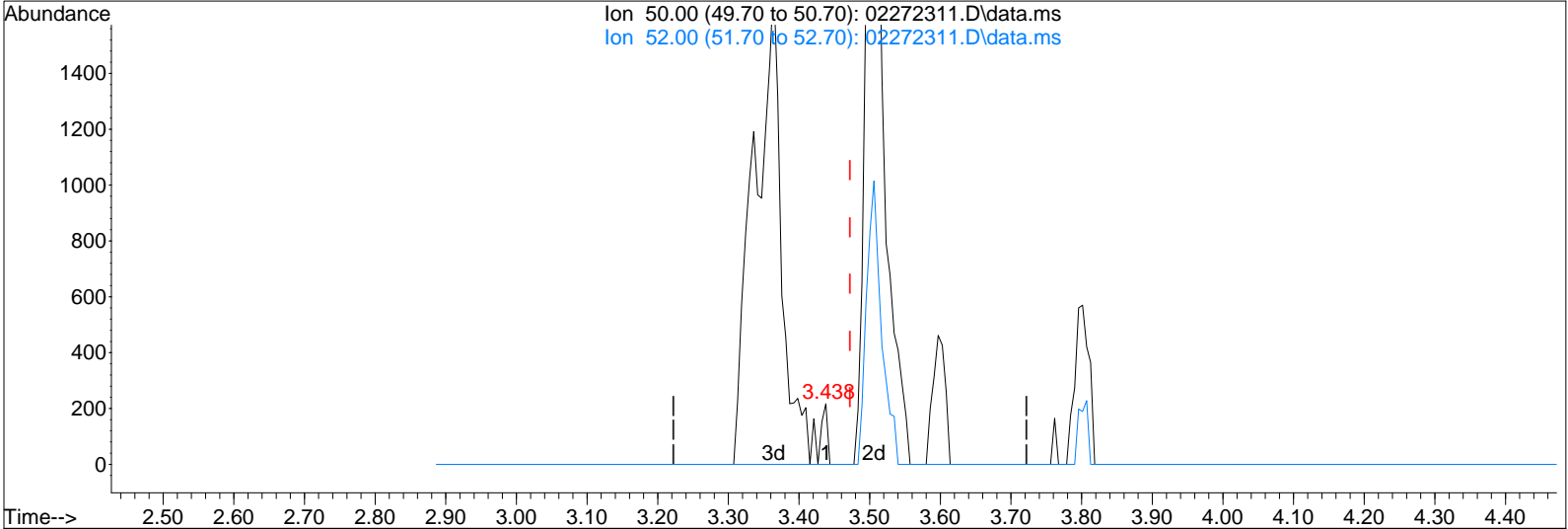
SC 2/27/23

Ion	Exp%	Act%
59.10	100	100
57.10	10.50	0.00
41.10	24.60	0.00#
43.10	18.20	0.00

Data File : I:\MS09\DATA\2023 02\27\02272311.D
 Acq On : 27 Feb 2023 14:32
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S35-02212305/S35-02222302 (3/18)

Vial: 5
 Operator: SC
 Inst : MS09

Quant Time: Feb 27 17:13:23 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Feb 27 17:09:40 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



TIC: 02272311.D\data.ms

(4) Chloromethane (T)

3.438min (-0.034) 0.01ng

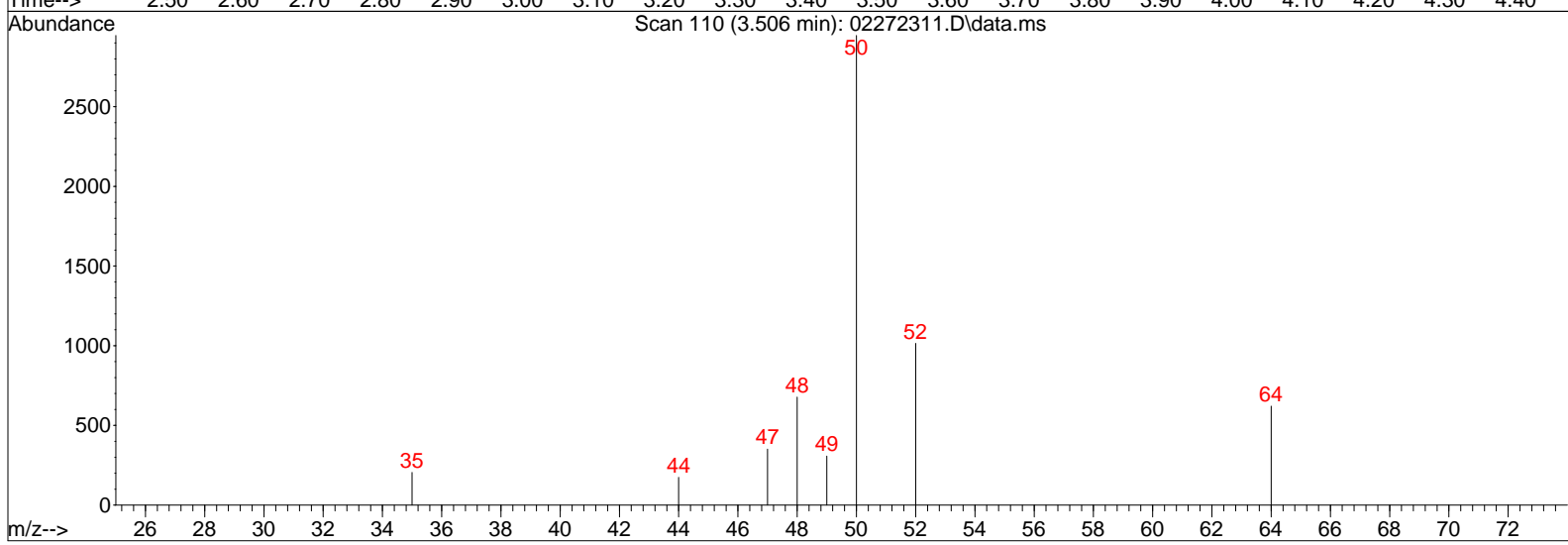
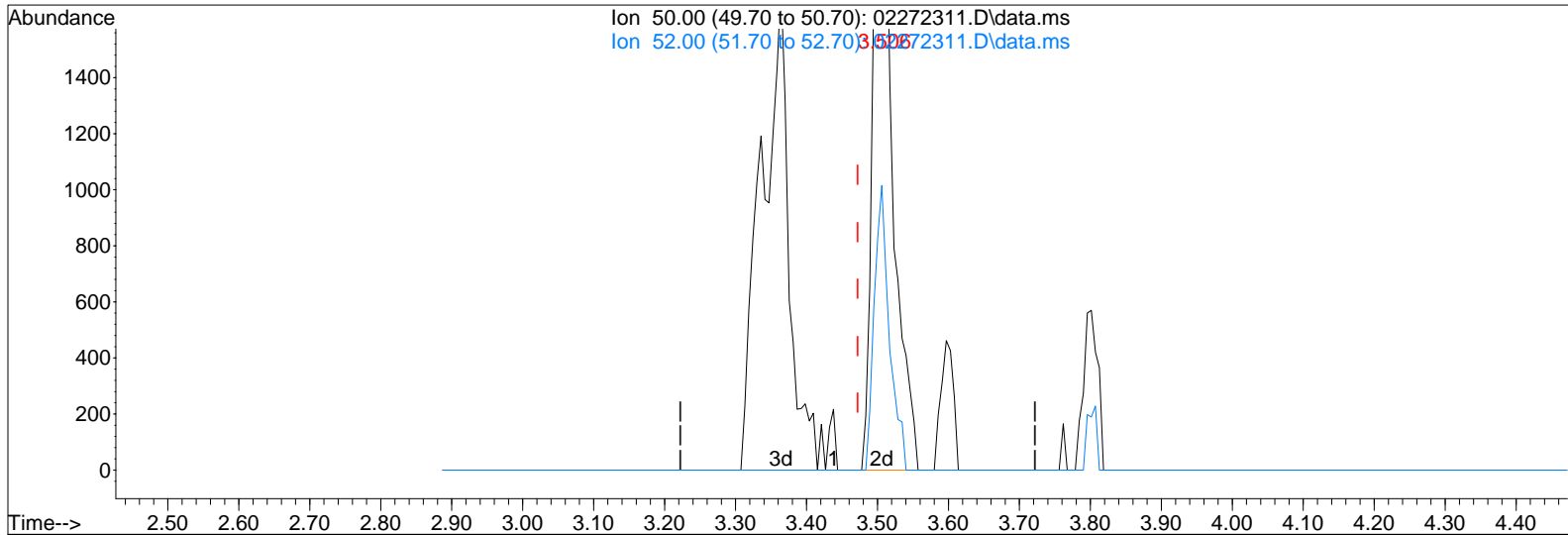
response 126

Ion	Exp%	Act%
50.00	100	100
52.00	32.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data File : I:\MS09\DATA\2023 02\27\02272311.D
 Acq On : 27 Feb 2023 14:32
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S35-02212305/S35-02222302 (3/18)

Vial: 5
 Operator: SC
 Inst : MS09

Quant Time: Feb 27 17:13:23 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Feb 27 17:09:40 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



TIC: 02272311.D\data.ms

(4) Chloromethane (T)

3.506min (+0.034) 0.22ng m

MP

response 5034

2/27/23

Ion	Exp%	Act%
50.00	100	100
52.00	32.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data File : I:\MS09\DATA\2023 02\27\02272312.D
 Acq On : 27 Feb 2023 15:04
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S35-02212305/S35-02222301 (3/18)

Vial: 6
 Operator: SC
 Inst : MS09

U 2/27/23

Quant Time: Feb 27 17:12:10 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Feb 27 17:09:40 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	7.20	130	146340	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	9.26	114	686493	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.81	54	163448	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.96	65	329297	13.277	ng	-0.04
Spiked Amount	12.500	Range 70 - 130	Recovery	=	106.24%	
57) Toluene-d8 (SS2)	12.39	98	773447	12.305	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	98.48%	
73) Bromofluorobenzene (SS3)	16.79	174	295881	10.988	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	87.92%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.29	42	9881	0.509	ng	94
3) Dichlorodifluoromethan...	3.36	85	21060	0.622	ng	100
4) Chloromethane	3.50	50	13601	0.623	ng	97
5) 1,2-Dichloro-1,1,2,2-t...	3.60	135	9749	0.613	ng	99
6) Vinyl Chloride	3.68	62	10217	0.606	ng	99
7) 1,3-Butadiene	3.80	54	7211	0.555	ng	96
8) Bromomethane	4.01	94	6929	0.637	ng	97
9) Chloroethane	4.14	64	5417	0.603	ng	100
10) Ethanol	4.27	45	28227	2.112	ng	98
11) Acetonitrile	4.43	41	18159	0.528	ng	93
12) Acrolein	4.52	56	10537	1.114	ng	100
13) Acetone	4.61	58	32306	3.289	ng	97
14) Trichlorofluoromethane	4.74	101	21047	0.632	ng	96
15) 2-Propanol (Isopropanol)	4.82	45	57444	1.377	ng	86
16) Acrylonitrile	4.98	53	24973	1.266	ng	96
17) 1,1-Dichloroethene	5.24	96	8637	0.644	ng	97
18) 2-Methyl-2-Propanol (t...	5.29	59	47853	1.167	ng	99
19) Methylene Chloride	5.33	84	8473	0.636	ng	93
20) 3-Chloro-1-propene (Al...	5.44	41	16338	0.620	ng	91
21) Trichlorotrifluoroethane	5.56	151	9831	0.638	ng	99
22) Carbon Disulfide	5.58	76	61982	1.263	ng	97
23) trans-1,2-Dichloroethene	6.11	61	13666	0.601	ng	99
24) 1,1-Dichloroethane	6.29	63	17185	0.646	ng	100
25) Methyl tert-Butyl Ether	6.35	73	26181	0.587	ng	99
26) Vinyl Acetate	6.42	86	2834	1.184	ng	# 58
27) 2-Butanone (MEK)	6.65	72	9715	1.122	ng	# 81
28) cis-1,2-Dichloroethene	7.04	61	13903	0.632	ng	97
29) Diisopropyl Ether	7.25	87	13917	1.254	ng	# 83
30) Ethyl Acetate	7.25	61	15261	2.432	ng	98
31) n-Hexane	7.27	57	16040	0.663	ng	97
32) Chloroform	7.33	83	18103	0.636	ng	99
34) Tetrahydrofuran (THF)	7.74	72	10570	1.282	ng	# 91
35) Ethyl tert-Butyl Ether	7.79	87	19951	1.211	ng	94
36) 1,2-Dichloroethane	8.08	62	16790	0.661	ng	99
38) 1,1,1-Trichloroethane	8.36	97	17655	0.563	ng	98
39) Isopropyl Acetate	9.26	61	24132	No Calib	#	
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	8.86	78	36971	0.660	ng	100
42) Carbon Tetrachloride	9.03	117	14881	0.534	ng	100
43) Cyclohexane	9.18	84	27085	1.298	ng	93
44) tert-Amyl Methyl Ether	9.57	73	46585	1.101	ng	96
45) 1,2-Dichloropropane	9.81	63	10539	0.684	ng	94
46) Bromodichloromethane	10.04	83	14523	0.574	ng	99
47) Trichloroethene	10.11	130	9915	0.570	ng	99
48) 1,4-Dioxane	10.10	88	6928	0.564	ng	99
49) 2,2,4-Trimethylpentane...	10.20	57	47208	0.723	ng	97
50) Methyl Methacrylate	10.37	100	6394	1.035	ng	# 80

Data File : I:\MS09\DATA\2023 02\27\02272312.D
 Acq On : 27 Feb 2023 15:04
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S35-02212305/S35-02222301 (3/18)

Vial: 6
 Operator: SC
 Inst : MS09

Quant Time: Feb 27 17:12:10 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Feb 27 17:09:40 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

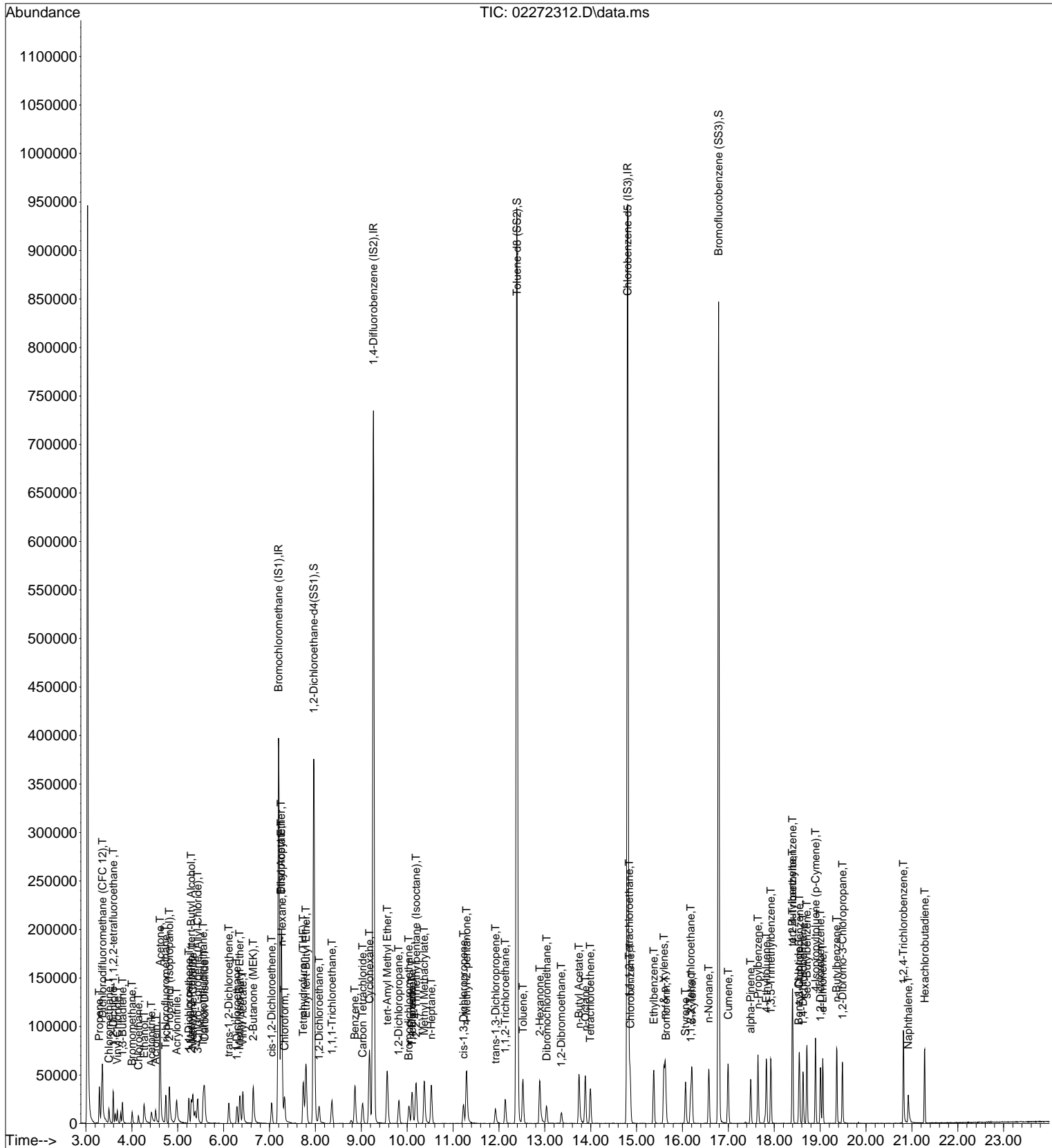
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
51) n-Heptane	10.52	71	9365	0.679	ng	98
52) cis-1,3-Dichloropropene	11.23	75	14079	0.551	ng	100
53) 4-Methyl-2-pentanone	11.30	58	18695	1.246	ng	91
54) trans-1,3-Dichloropropene	11.93	75	11359	0.436	ng	100
55) 1,1,2-Trichloroethane	12.14	97	9522	0.620	ng	97
58) Toluene	12.52	91	39898	0.617	ng	99
59) 2-Hexanone	12.89	43	52231	1.153	ng	96
60) Dibromochloromethane	13.04	129	11578	0.516	ng	100
61) 1,2-Dibromoethane	13.36	107	10606	0.540	ng	100
62) n-Butyl Acetate	13.74	43	55122	1.082	ng	99
63) n-Octane	13.89	57	9495	0.666	ng	94
64) Tetrachloroethene	13.99	166	12965	0.545	ng	100
65) Chlorobenzene	14.86	112	25268	0.579	ng	99
66) Ethylbenzene	15.37	91	47238	0.606	ng	99
67) m- & p-Xylenes	15.60	91	76260	1.179	ng	98
68) Bromoform	15.64	173	10065	0.440	ng	97
69) Styrene	16.07	104	23444	0.525	ng	98
70) o-Xylene	16.21	91	38669	0.609	ng	98
71) n-Nonane	16.57	43	27135	0.700	ng	93
72) 1,1,2,2-Tetrachloroethane	16.18	83	16358	0.609	ng	97
74) Cumene	17.00	105	47251	0.604	ng	99
75) alpha-Pinene	17.49	93	18387	0.486	ng	95
76) n-Propylbenzene	17.65	91	57041	0.611	ng	99
77) 3-Ethyltoluene	17.00	105	47251	No Calib		
78) 4-Ethyltoluene	17.83	105	42600	0.570	ng	98
79) 1,3,5-Trimethylbenzene	17.93	105	39005	0.583	ng	98
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.00	105	47251	No Calib		
82) 1,2,4-Trimethylbenzene	18.40	105	38752	0.560	ng	100
83) n-Decane	16.99	58	444	No Calib	#	
84) Benzyl Chloride	18.54	91	21775	0.428	ng	94
85) 1,3-Dichlorobenzene	18.55	146	21881	0.529	ng	99
86) 1,4-Dichlorobenzene	18.63	146	21519	0.527	ng	100
87) sec-Butylbenzene	18.71	105	52666	0.606	ng	97
88) 4-Isopropyltoluene (p-...	18.90	119	44449	0.577	ng	99
89) 1,2,3-Trimethylbenzene	17.00	105	47251	No Calib		
90) 1,2-Dichlorobenzene	19.01	146	22114	0.552	ng	100
91) d-Limonene	19.06	68	13386	0.556	ng	95
92) 1,2-Dibromo-3-Chloropr...	19.49	157	14990	0.888	ng	# 81
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	20.81	180	30928	0.867	ng	98
95) Naphthalene	20.92	128	30491	0.402	ng	95
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	21.28	225	13291	0.534	ng	100
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	18.39	119	37087	0.572	ng	98
100) n-Butylbenzene	19.36	91	41521	0.583	ng	97
101) 1,1,1,2-Tetrachloroethane	14.84	131	10081	0.539	ng	95

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

Data File : I:\MS09\DATA\2023 02\27\02272312.D
 Acq On : 27 Feb 2023 15:04
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S35-02212305/S35-02222301 (3/18)

Vial: 6
 Operator: SC
 Inst : MS09

Quant Time: Feb 27 17:12:10 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Feb 27 17:09:40 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2023 02\27\02272313.D
 Acq On : 27 Feb 2023 15:36
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S35-02212305/S35-02222301 (3/18)

Vial: 6
 Operator: SC
 Inst : MS09

Quant Time: Feb 27 17:11:01 2023

Quant Method : I:\MS09\METHODS\R9022723.M

Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)

QLast Update : Mon Feb 27 17:09:40 2023

Response via : Initial Calibration

DataAcq Meth:TO15.M

 2/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.20	130	160229	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.26	114	686789	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.81	54	179375	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.97	65	326481	12.022	ng	-0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	96.16%
57) Toluene-d8 (SS2)	12.39	98	823102	11.933	ng	-0.02
Spiked Amount	12.500	Range	70 - 130	Recovery	=	95.44%
73) Bromofluorobenzene (SS3)	16.79	174	291867	9.876	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	79.04%

Target Compounds

						Qvalue
2) Propene	3.28	42	20835	0.980	ng	98
3) Dichlorodifluoromethan...	3.35	85	37362	1.008	ng	100
4) Chloromethane	3.49	50	24530	1.027	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	3.59	135	16709	0.959	ng	98
6) Vinyl Chloride	3.68	62	17416	0.944	ng	97
7) 1,3-Butadiene	3.79	54	12755	0.897	ng	95
8) Bromomethane	4.00	94	11948	1.004	ng	98
9) Chloroethane	4.14	64	10853	1.104	ng	97
10) Ethanol	4.27	45	59041	4.035	ng	100
11) Acetonitrile	4.42	41	39973	1.061	ng	97
12) Acrolein	4.51	56	22549	2.178	ng	100
13) Acetone	4.61	58	67506	6.277	ng	97
14) Trichlorofluoromethane	4.73	101	38589	1.058	ng	99
15) 2-Propanol (Isopropanol)	4.82	45	123084	2.694	ng	92
16) Acrylonitrile	4.97	53	55872	2.586	ng	96
17) 1,1-Dichloroethene	5.24	96	17096	1.164	ng	93
18) 2-Methyl-2-Propanol (t...	5.29	59	96515	2.150	ng	96
19) Methylene Chloride	5.32	84	17606	1.206	ng	85
20) 3-Chloro-1-propene (Al...	5.43	41	35596	1.233	ng	92
21) Trichlorotrifluoroethane	5.56	151	17042	1.010	ng	85
22) Carbon Disulfide	5.57	76	131446	2.447	ng	99
23) trans-1,2-Dichloroethene	6.11	61	29642	1.190	ng	97
24) 1,1-Dichloroethane	6.29	63	36621	1.258	ng	96
25) Methyl tert-Butyl Ether	6.35	73	53420	1.093	ng	95
26) Vinyl Acetate	6.41	86	6794	2.593	ng	# 52
27) 2-Butanone (MEK)	6.64	72	22803	2.405	ng	# 79
28) cis-1,2-Dichloroethene	7.04	61	28817	1.196	ng	98
29) Diisopropyl Ether	7.25	87	28768	2.367	ng	# 56
30) Ethyl Acetate	7.25	61	35293	5.137	ng	95
31) n-Hexane	7.27	57	36287	1.371	ng	97
32) Chloroform	7.33	83	35871	1.151	ng	100
34) Tetrahydrofuran (THF)	7.73	72	19365	2.145	ng	# 88
35) Ethyl tert-Butyl Ether	7.79	87	35039	1.943	ng	93
36) 1,2-Dichloroethane	8.08	62	29095	1.047	ng	100
38) 1,1,1-Trichloroethane	8.36	97	30925	0.986	ng	99
39) Isopropyl Acetate	9.26	61	24170	No Calib	#	
40) 1-Butanol	8.84	56	153	No Calib	#	
41) Benzene	8.86	78	64321	1.148	ng	99
42) Carbon Tetrachloride	9.03	117	25863	0.929	ng	99
43) Cyclohexane	9.18	84	47054	2.254	ng	94
44) tert-Amyl Methyl Ether	9.56	73	85143	2.011	ng	96
45) 1,2-Dichloropropane	9.82	63	19511	1.265	ng	98
46) Bromodichloromethane	10.04	83	26692	1.054	ng	100
47) Trichloroethene	10.10	130	17852	1.027	ng	98
48) 1,4-Dioxane	10.09	88	13418	1.091	ng	98
49) 2,2,4-Trimethylpentane...	10.20	57	91790	1.406	ng	97
50) Methyl Methacrylate	10.37	100	13019	2.107	ng	# 84

Data File : I:\MS09\DATA\2023 02\27\02272313.D
 Acq On : 27 Feb 2023 15:36
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S35-02212305/S35-02222301 (3/18)

Vial: 6
 Operator: SC
 Inst : MS09

Quant Time: Feb 27 17:11:01 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Feb 27 17:09:40 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

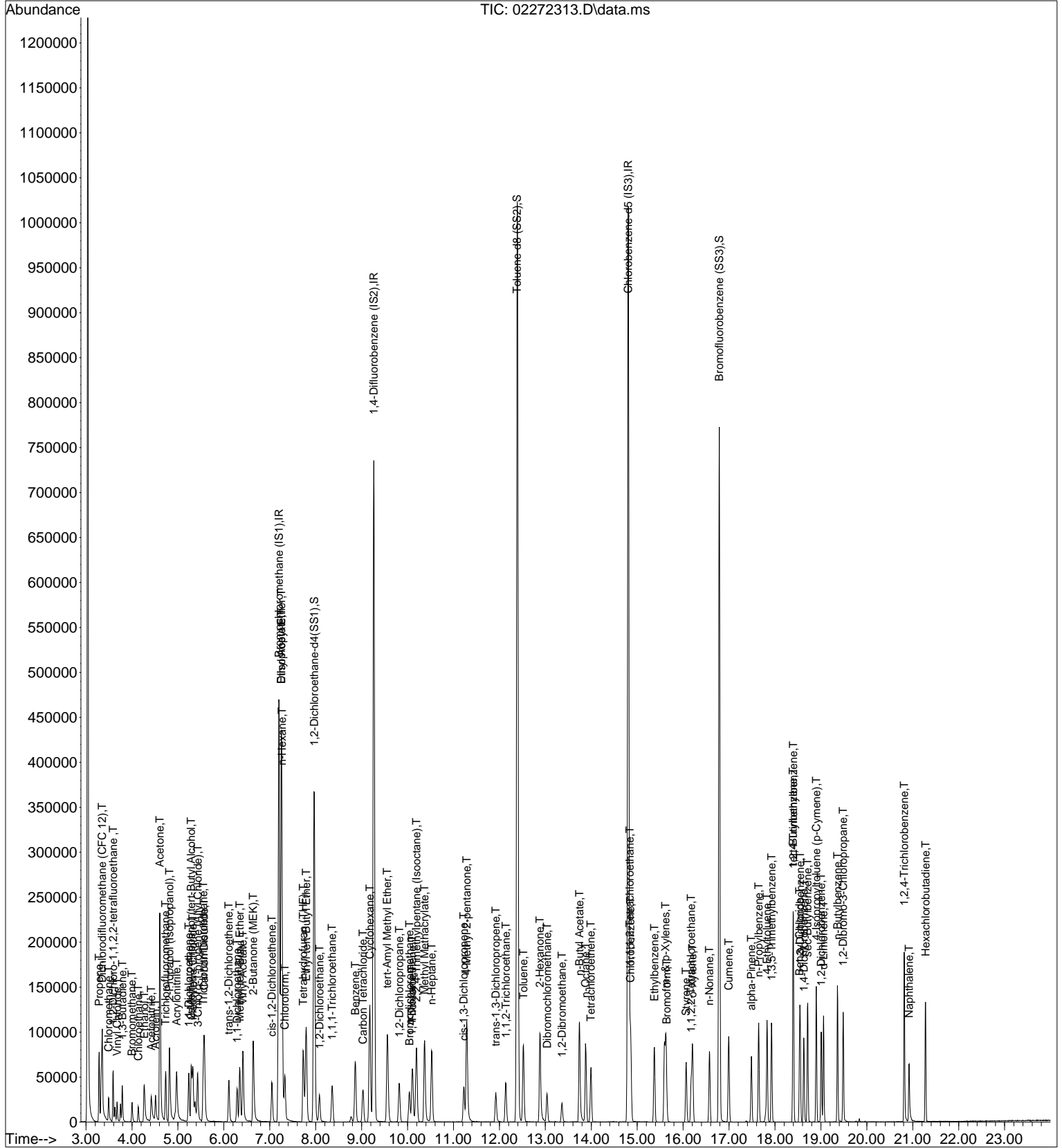
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.52	71	18587	1.347	ng	97
52) cis-1,3-Dichloropropene	11.22	75	27674	1.083	ng	100
53) 4-Methyl-2-pentanone	11.29	58	37890	2.525	ng	88
54) trans-1,3-Dichloropropene	11.92	75	22563	0.865	ng	98
55) 1,1,2-Trichloroethane	12.14	97	17019	1.108	ng	99
58) Toluene	12.52	91	75532	1.064	ng	99
59) 2-Hexanone	12.88	43	100590	2.023	ng	99
60) Dibromochloromethane	13.04	129	20374	0.828	ng	99
61) 1,2-Dibromoethane	13.36	107	18710	0.868	ng	99
62) n-Butyl Acetate	13.74	43	116928	2.092	ng	99
63) n-Octane	13.87	57	16974	1.085	ng	93
64) Tetrachloroethene	13.99	166	22106	0.847	ng	99
65) Chlorobenzene	14.86	112	47679	0.996	ng	100
66) Ethylbenzene	15.37	91	72021	0.842	ng	97
67) m- & p-Xylenes	15.62	91	115759	1.631	ng	99
68) Bromoform	15.64	173	17843	0.711	ng	98
69) Styrene	16.07	104	37017	0.756	ng	99
70) o-Xylene	16.20	91	58088	0.834	ng	99
71) n-Nonane	16.57	43	34952	0.821	ng	98
72) 1,1,2,2-Tetrachloroethane	16.17	83	23743	0.806	ng	100
74) Cumene	16.99	105	72764	0.848	ng	100
75) alpha-Pinene	17.49	93	28856	0.695	ng	96
76) n-Propylbenzene	17.64	91	90878	0.886	ng	99
77) 3-Ethyltoluene	16.99	105	72764	No Calib		
78) 4-Ethyltoluene	17.83	105	73715	0.898	ng	100
79) 1,3,5-Trimethylbenzene	17.93	105	64685	0.881	ng	96
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	16.99	105	72764	No Calib		
82) 1,2,4-Trimethylbenzene	18.40	105	64676	0.852	ng	100
83) n-Decane	17.00	58	501	No Calib	#	
84) Benzyl Chloride	18.54	91	44805	0.802	ng	98
85) 1,3-Dichlorobenzene	18.55	146	37056	0.816	ng	100
86) 1,4-Dichlorobenzene	18.63	146	37208	0.831	ng	99
87) sec-Butylbenzene	18.71	105	88626	0.929	ng	99
88) 4-Isopropyltoluene (p-...	18.90	119	76892	0.909	ng	99
89) 1,2,3-Trimethylbenzene	16.99	105	72764	No Calib		
90) 1,2-Dichlorobenzene	19.01	146	38401	0.874	ng	99
91) d-Limonene	19.06	68	24285	0.919	ng	93
92) 1,2-Dibromo-3-Chloropr...	19.48	157	28268	1.526	ng	# 80
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	20.81	180	53107	1.357	ng	99
95) Naphthalene	20.92	128	56662	0.680	ng	98
96) n-Dodecane	19.06	58	109	No Calib	#	
97) Hexachlorobutadiene	21.28	225	22481	0.823	ng	99
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	18.39	119	62552	0.879	ng	100
100) n-Butylbenzene	19.36	91	76845	0.983	ng	98
101) 1,1,1,2-Tetrachloroethane	14.84	131	18080	0.882	ng	99

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

Data File : I:\MS09\DATA\2023 02\27\02272313.D
Acq On : 27 Feb 2023 15:36
Sample : 1.0ng TO-15 ICAL STD
Misc : S35-02212305/S35-02222301 (3/18)

Vial: 6
Operator: SC
Inst : MS09

Quant Time: Feb 27 17:11:01 2023
Quant Method : I:\MS09\METHODS\R9022723.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Feb 27 17:09:40 2023
Response via : Initial Calibration
DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2023 02\27\02272314.D
 Acq On : 27 Feb 2023 16:07
 Sample : 5.0ng TO-15 ICAL STD
 Misc : S35-02212305/S35-02222301 (3/18)

Vial: 6
 Operator: SC
 Inst : MS09

Quant Time: Feb 27 17:09:50 2023

Quant Method : I:\MS09\METHODS\R9022723.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Mon Feb 27 17:09:40 2023

Response via : Initial Calibration

DataAcq Meth:TO15.M

 2/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.21	130	161448	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	9.28	114	705620	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.81	54	141118	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.98	65	337902	12.349	ng	-0.02
Spiked Amount	12.500	Range 70 - 130	Recovery	=	98.80%	
57) Toluene-d8 (SS2)	12.39	98	676906	12.474	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	99.76%	
73) Bromofluorobenzene (SS3)	16.79	174	293338	12.617	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	100.96%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.26	42	110343	5.151	ng	99
3) Dichlorodifluoromethan...	3.34	85	162258	4.343	ng	99
4) Chloromethane	3.48	50	94321	3.917	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	3.58	135	71611	4.081	ng	99
6) Vinyl Chloride	3.66	62	73110	3.932	ng	99
7) 1,3-Butadiene	3.78	54	55457	3.869	ng	96
8) Bromomethane	3.99	94	46303	3.861	ng	99
9) Chloroethane	4.13	64	42641	4.303	ng	99
10) Ethanol	4.28	45	237853	16.134	ng	99
11) Acetonitrile	4.43	41	157970	4.163	ng	100
12) Acrolein	4.51	56	90765	8.700	ng	95
13) Acetone	4.61	58	258649	23.868	ng	100
14) Trichlorofluoromethane	4.73	101	158314	4.306	ng	99
15) 2-Propanol (Isopropanol)	4.84	45	359903	7.819	ng	95
16) Acrylonitrile	4.98	53	204524	9.396	ng	99
17) 1,1-Dichloroethene	5.23	96	68931	4.660	ng	97
18) 2-Methyl-2-Propanol (t...	5.31	59	337109	7.455	ng	96
19) Methylene Chloride	5.33	84	68376	4.649	ng	92
20) 3-Chloro-1-propene (Al...	5.43	41	134098	4.610	ng	97
21) Trichlorotrifluoroethane	5.56	151	73913	4.347	ng	93
22) Carbon Disulfide	5.57	76	517926	9.569	ng	99
23) trans-1,2-Dichloroethene	6.12	61	125309	4.994	ng	97
24) 1,1-Dichloroethane	6.30	63	152039	5.184	ng	99
25) Methyl tert-Butyl Ether	6.34	73	229738	4.667	ng	96
26) Vinyl Acetate	6.42	86	33396	12.649	ng	# 65
27) 2-Butanone (MEK)	6.64	72	100748	10.548	ng	# 84
28) cis-1,2-Dichloroethene	7.06	61	127098	5.234	ng	96
29) Diisopropyl Ether	7.25	87	125783	10.273	ng	# 49
30) Ethyl Acetate	7.26	61	162076	23.414	ng	93
31) n-Hexane	7.27	57	159037	5.962	ng	98
32) Chloroform	7.34	83	156351	4.978	ng	100
34) Tetrahydrofuran (THF)	7.73	72	94722	10.411	ng	# 84
35) Ethyl tert-Butyl Ether	7.79	87	165232	9.092	ng	90
36) 1,2-Dichloroethane	8.09	62	133641	4.772	ng	99
38) 1,1,1-Trichloroethane	8.37	97	142469	4.419	ng	97
39) Isopropyl Acetate	9.18	61	267	No Calib	#	
40) 1-Butanol	8.80	56	4098	No Calib		
41) Benzene	8.87	78	279018	4.848	ng	99
42) Carbon Tetrachloride	9.04	117	116752	4.080	ng	99
43) Cyclohexane	9.18	84	211866	9.878	ng	93
44) tert-Amyl Methyl Ether	9.56	73	378523	8.701	ng	96
45) 1,2-Dichloropropane	9.83	63	90520	5.714	ng	100
46) Bromodichloromethane	10.05	83	117877	4.529	ng	99
47) Trichloroethene	10.12	130	76571	4.286	ng	100
48) 1,4-Dioxane	10.09	88	56725	4.489	ng	98
49) 2,2,4-Trimethylpentane...	10.20	57	359317	5.356	ng	98
50) Methyl Methacrylate	10.37	100	60580	9.541	ng	# 82

Data File : I:\MS09\DATA\2023 02\27\02272314.D
 Acq On : 27 Feb 2023 16:07
 Sample : 5.0ng TO-15 ICAL STD
 Misc : S35-02212305/S35-02222301 (3/18)

Vial: 6
 Operator: SC
 Inst : MS09

Quant Time: Feb 27 17:09:50 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Feb 27 17:09:40 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

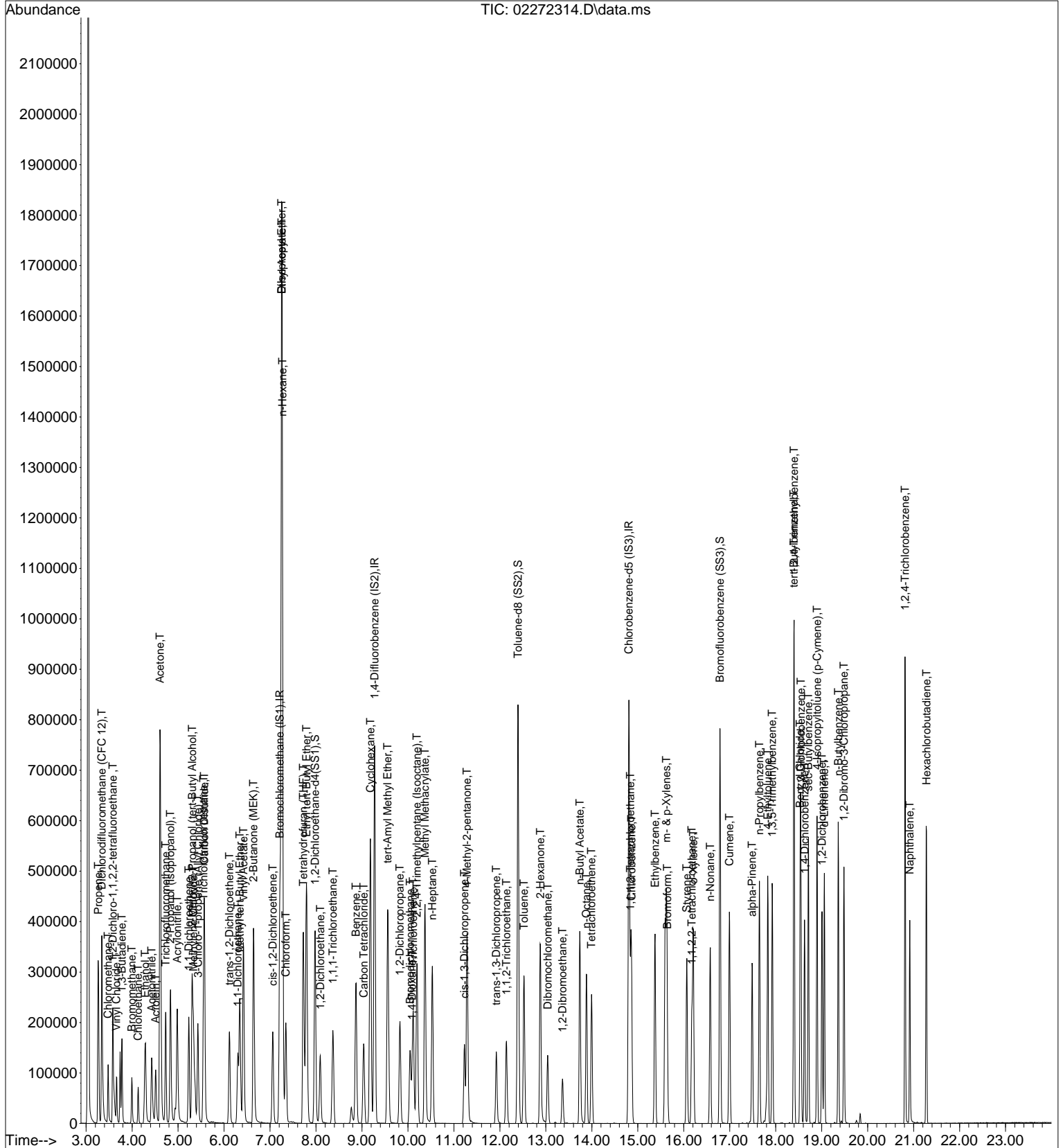
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.53	71	74282	5.239	ng	95
52) cis-1,3-Dichloropropene	11.23	75	103787	3.955	ng	100
53) 4-Methyl-2-pentanone	11.29	58	121673	7.891	ng	98
54) trans-1,3-Dichloropropene	11.92	75	94695	3.535	ng	100
55) 1,1,2-Trichloroethane	12.14	97	64417	4.083	ng	98
58) Toluene	12.52	91	261470	4.681	ng	99
59) 2-Hexanone	12.88	43	343069	8.772	ng	99
60) Dibromochloromethane	13.04	129	89115	4.602	ng	99
61) 1,2-Dibromoethane	13.36	107	76460	4.510	ng	99
62) n-Butyl Acetate	13.74	43	371191	8.442	ng	99
63) n-Octane	13.88	57	58487	4.754	ng	99
64) Tetrachloroethene	13.99	166	98198	4.781	ng	98
65) Chlorobenzene	14.86	112	176113	4.674	ng	100
66) Ethylbenzene	15.37	91	314452	4.671	ng	100
67) m- & p-Xylenes	15.62	91	518293	9.284	ng	100
68) Bromoform	15.64	173	86536	4.382	ng	99
69) Styrene	16.07	104	174778	4.535	ng	100
70) o-Xylene	16.21	91	259295	4.732	ng	99
71) n-Nonane	16.58	43	159020	4.748	ng	99
72) 1,1,2,2-Tetrachloroethane	16.17	83	108205	4.667	ng	99
74) Cumene	16.99	105	322482	4.776	ng	100
75) alpha-Pinene	17.49	93	128391	3.933	ng	95
76) n-Propylbenzene	17.65	91	389782	4.832	ng	99
77) 3-Ethyltoluene	16.99	105	322482	No Calib		
78) 4-Ethyltoluene	17.83	105	319717	4.952	ng	99
79) 1,3,5-Trimethylbenzene	17.92	105	272786	4.723	ng	100
80) alpha-Methylstyrene	17.00	118	801	No Calib	#	
81) 2-Ethyltoluene	16.99	105	322482	No Calib		
82) 1,2,4-Trimethylbenzene	18.40	105	277319	4.645	ng	100
83) n-Decane	16.99	58	2651	No Calib		
84) Benzyl Chloride	18.53	91	297613	6.770	ng	98
85) 1,3-Dichlorobenzene	18.55	146	163198	4.568	ng	99
86) 1,4-Dichlorobenzene	18.63	146	160450	4.553	ng	99
87) sec-Butylbenzene	18.71	105	360040	4.798	ng	99
88) 4-Isopropyltoluene (p-...	18.90	119	320648	4.818	ng	99
89) 1,2,3-Trimethylbenzene	16.99	105	322482	No Calib		
90) 1,2-Dichlorobenzene	19.01	146	163727	4.735	ng	100
91) d-Limonene	19.06	68	94406	4.542	ng	99
92) 1,2-Dibromo-3-Chloropr...	19.48	157	129262	8.867	ng	97
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	20.81	180	259436	8.426	ng	100
95) Naphthalene	20.92	128	263213	4.018	ng	100
96) n-Dodecane	19.05	58	1106	No Calib	#	
97) Hexachlorobutadiene	21.28	225	103336	4.809	ng	100
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	18.39	119	266984	4.771	ng	100
100) n-Butylbenzene	19.36	91	290338	4.721	ng	100
101) 1,1,1,2-Tetrachloroethane	14.84	131	73450	4.552	ng	100

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

Data File : I:\MS09\DATA\2023 02\27\02272314.D
Acq On : 27 Feb 2023 16:07
Sample : 5.0ng TO-15 ICAL STD
Misc : S35-02212305/S35-02222301 (3/18)

Vial: 6
Operator: SC
Inst : MS09

Quant Time: Feb 27 17:09:50 2023
Quant Method : I:\MS09\METHODS\R9022723.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Feb 27 17:09:40 2023
Response via : Initial Calibration
DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2023 02\27\02272315.D
 Acq On : 27 Feb 2023 16:39
 Sample : 25ng TO-15 ICAL STD
 Misc : S35-02212305/S35-02162303 (3/18)

Vial: 7
 Operator: SC
 Inst : MS09

Quant Time: Feb 27 17:08:16 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Feb 27 17:08:05 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

 2/27/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.24	130	145732	12.500	ng	0.00
37) 1,4-Difluorobenzene (IS2)	9.29	114	624395	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	14.81	54	143994	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.00	65	308746	12.500	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	100.00%
57) Toluene-d8 (SS2)	12.40	98	692163	12.500	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	100.00%
73) Bromofluorobenzene (SS3)	16.79	174	296539	12.500	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	100.00%

Target Compounds

						Qvalue
2) Propene	3.26	42	507555	26.250	ng	100
3) Dichlorodifluoromethan...	3.33	85	893667	26.500	ng	100
4) Chloromethane	3.47	50	559628	25.750	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	3.57	135	411850	26.000	ng	100
6) Vinyl Chloride	3.67	62	423786	25.250	ng	100
7) 1,3-Butadiene	3.78	54	342853	26.500	ng	100
8) Bromomethane	4.00	94	276046	25.500	ng	100
9) Chloroethane	4.14	64	230311	25.750	ng	100
10) Ethanol	4.33	45	1147757	86.250	ng	100
11) Acetonitrile	4.45	41	777955	22.711	ng	100
12) Acrolein	4.53	56	454528	48.266	ng	100
13) Acetone	4.64	58	1288729	131.750	ng	100
14) Trichlorofluoromethane	4.74	101	862865	26.000	ng	100
15) 2-Propanol (Isopropanol)	4.87	45	2130126	51.266	ng	100
16) Acrylonitrile	5.01	53	1006962	51.250	ng	100
17) 1,1-Dichloroethene	5.24	96	360537	27.000	ng	100
18) 2-Methyl-2-Propanol (t...	5.35	59	2155035	52.794	ng	100
19) Methylene Chloride	5.36	84	351778	26.500	ng	100
20) 3-Chloro-1-propene (Al...	5.45	41	695768	26.496	ng	100
21) Trichlorotrifluoroethane	5.56	151	414378	27.000	ng	100
22) Carbon Disulfide	5.58	76	2601650	53.250	ng	100
23) trans-1,2-Dichloroethene	6.14	61	611574	27.000	ng	100
24) 1,1-Dichloroethane	6.33	63	708122	26.750	ng	100
25) Methyl tert-Butyl Ether	6.35	73	1188635	26.750	ng	100
26) Vinyl Acetate	6.44	86	166820	70.000	ng	100
27) 2-Butanone (MEK)	6.66	72	450499	52.250	ng	100
28) cis-1,2-Dichloroethene	7.08	61	580873	26.500	ng	100
29) Diisopropyl Ether	7.27	87	585788	53.000	ng	100
30) Ethyl Acetate	7.28	61	659215	105.500	ng	100
31) n-Hexane	7.28	57	632018	26.250	ng	100
32) Chloroform	7.37	83	751358	26.500	ng	100
34) Tetrahydrofuran (THF)	7.73	72	418852	51.000	ng	100
35) Ethyl tert-Butyl Ether	7.81	87	869438	53.000	ng	100
36) 1,2-Dichloroethane	8.11	62	682523	27.000	ng	100
38) 1,1,1-Trichloroethane	8.38	97	748849	26.250	ng	100
39) Isopropyl Acetate	9.19	61	2573	No Calib	#	
40) 1-Butanol	8.80	56	19987	No Calib		
41) Benzene	8.88	78	1362209	26.750	ng	100
42) Carbon Tetrachloride	9.05	117	658412	26.000	ng	100
43) Cyclohexane	9.20	84	996369	52.500	ng	100
44) tert-Amyl Methyl Ether	9.57	73	2040363	53.000	ng	100
45) 1,2-Dichloropropane	9.84	63	367955	26.250	ng	100
46) Bromodichloromethane	10.06	83	616098	26.750	ng	100
47) Trichloroethene	10.13	130	414981	26.250	ng	100
48) 1,4-Dioxane	10.09	88	296325	26.500	ng	100
49) 2,2,4-Trimethylpentane...	10.21	57	1602792	27.000	ng	100
50) Methyl Methacrylate	10.38	100	297768	53.000	ng	100

Data File : I:\MS09\DATA\2023 02\27\02272315.D
 Acq On : 27 Feb 2023 16:39
 Sample : 25ng TO-15 ICAL STD
 Misc : S35-02212305/S35-02162303 (3/18)

Vial: 7
 Operator: SC
 Inst : MS09

Quant Time: Feb 27 17:08:16 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Feb 27 17:08:05 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

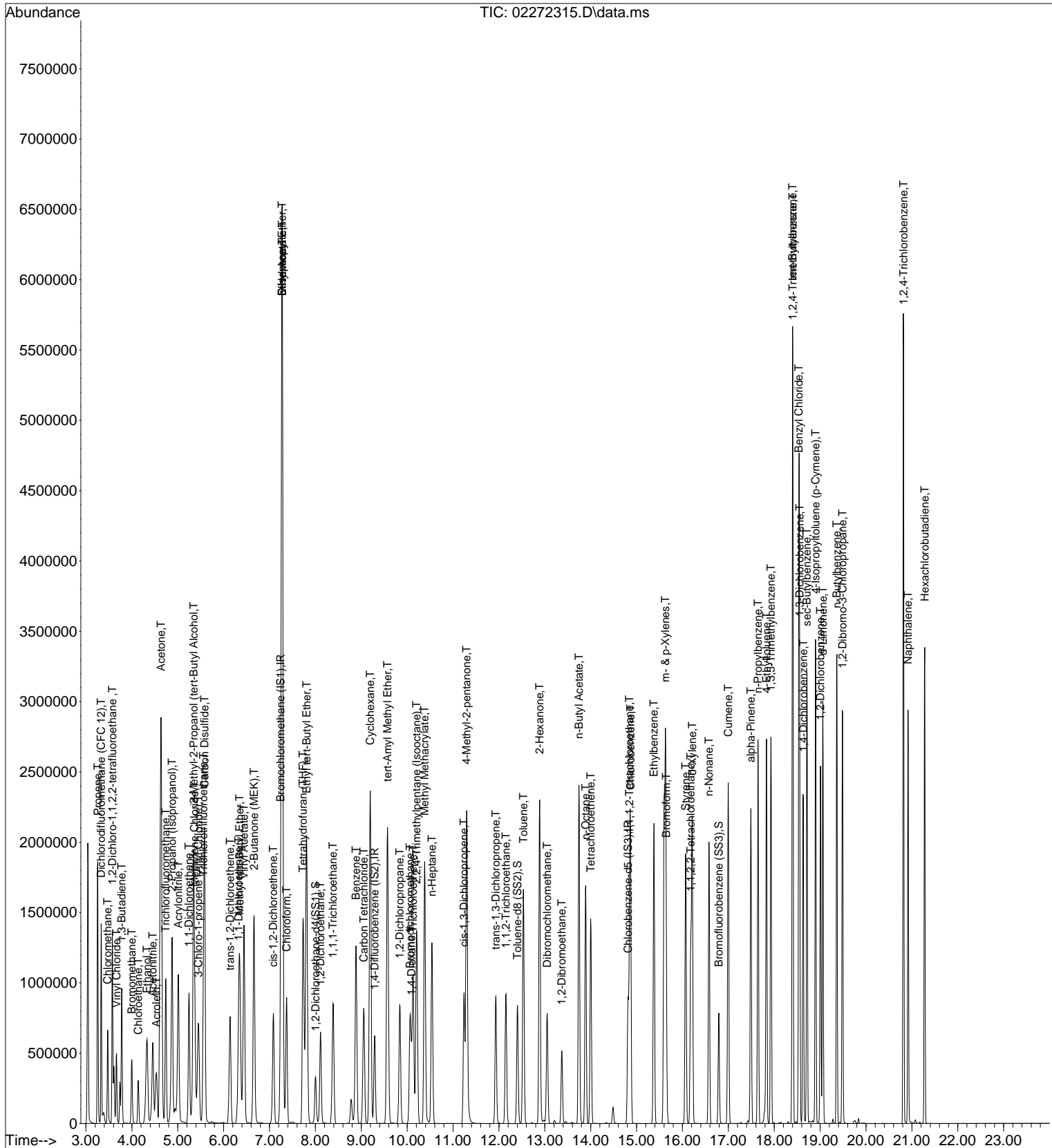
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.54	71	332472	26.500	ng	100
52) cis-1,3-Dichloropropene	11.24	75	627011	27.000	ng	100
53) 4-Methyl-2-pentanone	11.30	58	733418	53.750	ng	100
54) trans-1,3-Dichloropropene	11.93	75	604444	25.500	ng	100
55) 1,1,2-Trichloroethane	12.15	97	369972	26.499	ng	100
58) Toluene	12.53	91	1496201	26.250	ng	100
59) 2-Hexanone	12.89	43	2115059	53.000	ng	100
60) Dibromochloromethane	13.05	129	533467	27.000	ng	100
61) 1,2-Dibromoethane	13.37	107	449776	26.000	ng	100
62) n-Butyl Acetate	13.74	43	2299468	51.250	ng	100
63) n-Octane	13.89	57	335817	26.750	ng	100
64) Tetrachloroethene	14.00	166	555399	26.500	ng	100
65) Chlorobenzene	14.87	112	1018774	26.500	ng	100
66) Ethylbenzene	15.38	91	1803178	26.250	ng	100
67) m- & p-Xylenes	15.63	91	2990743	52.500	ng	100
68) Bromoform	15.65	173	539045	26.750	ng	100
69) Styrene	16.07	104	1042125	26.500	ng	100
70) o-Xylene	16.21	91	1481800	26.500	ng	100
71) n-Nonane	16.58	43	905586	26.500	ng	100
72) 1,1,2,2-Tetrachloroethane	16.18	83	626967	26.500	ng	100
74) Cumene	17.00	105	1843180	26.750	ng	100
75) alpha-Pinene	17.49	93	907708	27.250	ng	100
76) n-Propylbenzene	17.65	91	2201583	26.750	ng	100
77) 3-Ethyltoluene	17.00	105	1843180	No Calib		
78) 4-Ethyltoluene	17.83	105	1795202	27.250	ng	100
79) 1,3,5-Trimethylbenzene	17.93	105	1561636	26.500	ng	100
80) alpha-Methylstyrene	17.00	118	3075	No Calib	#	
81) 2-Ethyltoluene	17.00	105	1843180	No Calib		
82) 1,2,4-Trimethylbenzene	18.41	105	1599184	26.250	ng	100
83) n-Decane	17.01	58	13428	No Calib		
84) Benzyl Chloride	18.54	91	2377328	53.000	ng	100
85) 1,3-Dichlorobenzene	18.55	146	966121	26.500	ng	100
86) 1,4-Dichlorobenzene	18.63	146	952964	26.500	ng	100
87) sec-Butylbenzene	18.71	105	2029035	26.500	ng	100
88) 4-Isopropyltoluene (p-...	18.90	119	1798851	26.491	ng	100
89) 1,2,3-Trimethylbenzene	17.00	105	1843180	No Calib		
90) 1,2-Dichlorobenzene	19.01	146	943849	26.750	ng	100
91) d-Limonene	19.06	68	567384	26.750	ng	100
92) 1,2-Dibromo-3-Chloropr...	19.49	157	780903	52.500	ng	100
93) n-Undecane	18.11	58	373	No Calib	#	
94) 1,2,4-Trichlorobenzene	20.82	180	1641599	52.250	ng	100
95) Naphthalene	20.92	128	1838311	27.500	ng	100
96) n-Dodecane	19.06	58	4526	No Calib	#	
97) Hexachlorobutadiene	21.28	225	581075	26.500	ng	100
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	18.40	119	1513270	26.500	ng	100
100) n-Butylbenzene	19.37	91	1678615	26.750	ng	100
101) 1,1,1,2-Tetrachloroethane	14.85	131	436301	26.500	ng	100

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

Data File : I:\MS09\DATA\2023 02\27\02272315.D
 Acq On : 27 Feb 2023 16:39
 Sample : 25ng TO-15 ICAL STD
 Misc : S35-02212305/S35-02162303 (3/18)

Vial: 7
 Operator: SC
 Inst : MS09

Quant Time: Feb 27 17:08:16 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Feb 27 17:08:05 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2023 02\27\02272316.D
 Acq On : 27 Feb 2023 17:11
 Sample : 50ng TO-15 ICAL STD
 Misc : S35-02212305/S35-02162303 (3/18)

Vial: 7
 Operator: SC
 Inst : MS09

Quant Time: Feb 28 08:25:18 2023

2/28/23

Quant Method : I:\MS09\METHODS\R9022723.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Mon Feb 27 17:08:05 2023

Response via : Initial Calibration

DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.26	130	147367	12.500	ng	0.02
37) 1,4-Difluorobenzene (IS2)	9.30	114	630348	12.500	ng	0.01
56) Chlorobenzene-d5 (IS3)	14.82	54	145741	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.01	65	308197	12.339	ng	0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	98.72%
57) Toluene-d8 (SS2)	12.41	98	698666	12.466	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	99.76%
73) Bromofluorobenzene (SS3)	16.79	174	298154	12.417	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	99.36%

Target Compounds

						Qvalue
2) Propene	3.26	42	1027444	52.548	ng	99
3) Dichlorodifluoromethan...	3.34	85	1652887	48.469	ng	100
4) Chloromethane	3.48	50	972987	44.273	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	3.58	135	803110	50.138	ng	100
6) Vinyl Chloride	3.67	62	897202	52.864	ng	100
7) 1,3-Butadiene	3.78	54	700144	53.516	ng	98
8) Bromomethane	4.01	94	503721	46.015	ng	99
9) Chloroethane	4.15	64	412434	45.601	ng	100
10) Ethanol	4.36	45	2025441	150.516	ng	100
11) Acetonitrile	4.48	41	1353940	39.088	ng	100
12) Acrolein	4.55	56	809649	85.022	ng	100
13) Acetone	4.65	58	2288221	231.335	ng	97
14) Trichlorofluoromethane	4.75	101	1582523	47.156	ng	99
15) 2-Propanol (Isopropanol)	4.90	45	3335115	79.375	ng	99
16) Acrylonitrile	5.03	53	1771265	89.150	ng	99
17) 1,1-Dichloroethene	5.26	96	667820	49.457	ng	98
18) 2-Methyl-2-Propanol (t...	5.37	59	3217806	77.954	ng	99
19) Methylene Chloride	5.38	84	641723	47.806	ng	95
20) 3-Chloro-1-propene (Al...	5.47	41	1160805	43.715	ng	95
21) Trichlorotrifluoroethane	5.57	151	785476	50.612	ng	97
22) Carbon Disulfide	5.60	76	4659537	94.312	ng	100
23) trans-1,2-Dichloroethene	6.15	61	1112052	48.551	ng	98
24) 1,1-Dichloroethane	6.34	63	1287851	48.110	ng	100
25) Methyl tert-Butyl Ether	6.36	73	2164686	48.175	ng	99
26) Vinyl Acetate	6.46	86	314605	130.548	ng	# 84
27) 2-Butanone (MEK)	6.68	72	820304	94.085	ng	# 93
28) cis-1,2-Dichloroethene	7.09	61	1075876	48.538	ng	100
29) Diisopropyl Ether	7.28	87	1095799	98.044	ng	# 84
30) Ethyl Acetate	7.29	61	1211386	191.718	ng	98
31) n-Hexane	7.29	57	1146765	47.101	ng	100
32) Chloroform	7.39	83	1392959	48.584	ng	100
34) Tetrahydrofuran (THF)	7.74	72	784289	94.437	ng	97
35) Ethyl tert-Butyl Ether	7.82	87	1643850	99.096	ng	99
36) 1,2-Dichloroethane	8.13	62	1285684	50.296	ng	100
38) 1,1,1-Trichloroethane	8.40	97	1411104	48.997	ng	100
39) Isopropyl Acetate	9.20	61	4684	No Calib	#	
40) 1-Butanol	8.80	56	39107	No Calib		
41) Benzene	8.89	78	2562754	49.850	ng	100
42) Carbon Tetrachloride	9.07	117	1252872	49.007	ng	100
43) Cyclohexane	9.21	84	1876364	97.934	ng	99
44) tert-Amyl Methyl Ether	9.58	73	3879402	99.819	ng	99
45) 1,2-Dichloropropane	9.85	63	685813	48.464	ng	100
46) Bromodichloromethane	10.08	83	1173135	50.455	ng	100
47) Trichloroethene	10.14	130	789251	49.453	ng	100
48) 1,4-Dioxane	10.10	88	561082	49.703	ng	100
49) 2,2,4-Trimethylpentane...	10.21	57	2995020	49.976	ng	99
50) Methyl Methacrylate	10.39	100	570054	100.506	ng	99

Data File : I:\MS09\DATA\2023 02\27\02272316.D
 Acq On : 27 Feb 2023 17:11
 Sample : 50ng TO-15 ICAL STD
 Misc : S35-02212305/S35-02162303 (3/18)

Vial: 7
 Operator: SC
 Inst : MS09

Quant Time: Feb 28 08:25:18 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Feb 27 17:08:05 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

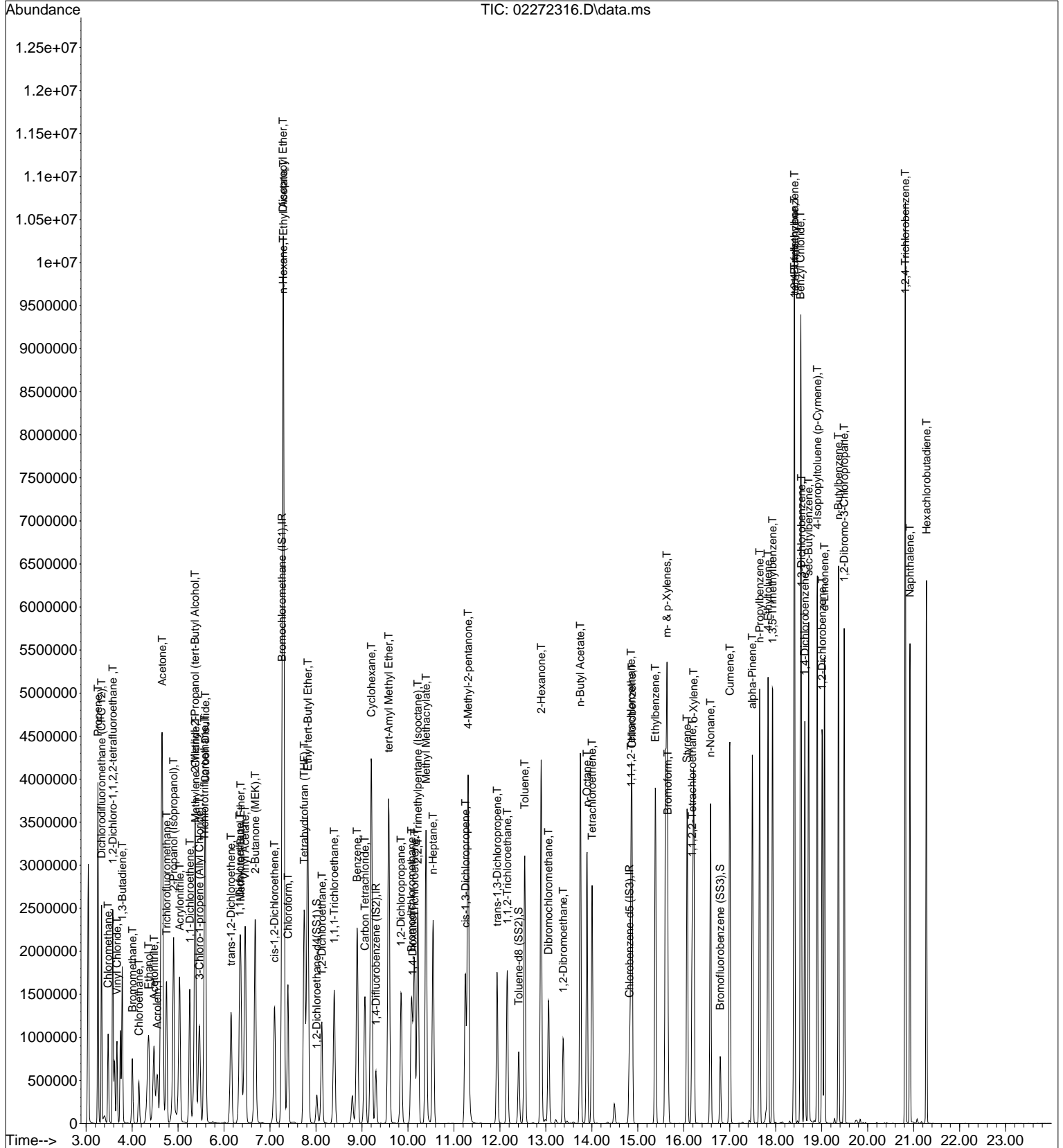
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.55	71	631765	49.880	ng	99
52) cis-1,3-Dichloropropene	11.25	75	1193868	50.924	ng	99
53) 4-Methyl-2-pentanone	11.31	58	1383460	100.432	ng	97
54) trans-1,3-Dichloropropene	11.94	75	1173668	49.047	ng	100
55) 1,1,2-Trichloroethane	12.16	97	705707	50.069	ng	100
58) Toluene	12.54	91	2826724	48.999	ng	100
59) 2-Hexanone	12.90	43	3899817	96.552	ng	98
60) Dibromochloromethane	13.06	129	1031690	51.590	ng	100
61) 1,2-Dibromoethane	13.38	107	866853	49.509	ng	100
62) n-Butyl Acetate	13.75	43	4215330	92.824	ng	99
63) n-Octane	13.90	57	629949	49.578	ng	99
64) Tetrachloroethene	14.01	166	1064038	50.160	ng	100
65) Chlorobenzene	14.87	112	1940549	49.872	ng	100
66) Ethylbenzene	15.38	91	3390031	48.759	ng	100
67) m- & p-Xylenes	15.63	91	5619596	97.465	ng	99
68) Bromoform	15.65	173	1038937	50.939	ng	99
69) Styrene	16.07	104	1978903	49.718	ng	100
70) o-Xylene	16.21	91	2791624	49.326	ng	100
71) n-Nonane	16.58	43	1658727	47.957	ng	98
72) 1,1,2,2-Tetrachloroethane	16.19	83	1178220	49.203	ng	100
74) Cumene	17.00	105	3433087	49.227	ng	99
75) alpha-Pinene	17.49	93	1735284	51.470	ng	100
76) n-Propylbenzene	17.65	91	4079978	48.979	ng	99
77) 3-Ethyltoluene	17.00	105	3433087	No Calib		
78) 4-Ethyltoluene	17.83	105	3358077	50.362	ng	98
79) 1,3,5-Trimethylbenzene	17.93	105	2916406	48.896	ng	99
80) alpha-Methylstyrene	17.00	118	6051	No Calib	#	
81) 2-Ethyltoluene	17.00	105	3433087	No Calib		
82) 1,2,4-Trimethylbenzene	18.41	105	2985719	48.422	ng	99
83) n-Decane	17.00	58	23641	No Calib		
84) Benzyl Chloride	18.54	91	4693090	103.373	ng	99
85) 1,3-Dichlorobenzene	18.56	146	1826744	49.506	ng	100
86) 1,4-Dichlorobenzene	18.63	146	1801396	49.493	ng	99
87) sec-Butylbenzene	18.72	105	3752599	48.423	ng	99
88) 4-Isopropyltoluene (p-...	18.91	119	3326471	48.401	ng	99
89) 1,2,3-Trimethylbenzene	17.00	105	3433087	No Calib		
90) 1,2-Dichlorobenzene	19.01	146	1793808	50.230	ng	100
91) d-Limonene	19.06	68	1077122	50.173	ng	100
92) 1,2-Dibromo-3-Chloropr...	19.49	157	1482335	98.463	ng	99
93) n-Undecane	18.08	58	1214	No Calib	#	
94) 1,2,4-Trichlorobenzene	20.82	180	3033916	95.408	ng	100
95) Naphthalene	20.92	128	3472624	51.326	ng	99
96) n-Dodecane	19.06	58	8253	No Calib	#	
97) Hexachlorobutadiene	21.28	225	1070508	48.235	ng	99
98) Cyclohexanone	15.27	55	180	No Calib	#	
99) tert-Butylbenzene	18.41	119	2821166	48.811	ng	99
100) n-Butylbenzene	19.37	91	3110110	48.968	ng	99
101) 1,1,1,2-Tetrachloroethane	14.85	131	834070	50.052	ng	100

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

Data File : I:\MS09\DATA\2023 02\27\02272316.D
 Acq On : 27 Feb 2023 17:11
 Sample : 50ng TO-15 ICAL STD
 Misc : S35-02212305/S35-02162303 (3/18)

Vial: 7
 Operator: SC
 Inst : MS09

Quant Time: Feb 28 08:25:18 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Feb 27 17:08:05 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2023 02\27\02272317.D
 Acq On : 27 Feb 2023 17:43
 Sample : 100ng TO-15 ICAL STD
 Misc : S35-02212305/S35-02162303 (3/18)

Vial: 7
 Operator: SC
 Inst : MS09

Quant Time: Feb 28 08:27:15 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Feb 27 17:08:05 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

 2/28/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.28	130	151786	12.500	ng	0.03
37) 1,4-Difluorobenzene (IS2)	9.32	114	646044	12.500	ng	0.02
56) Chlorobenzene-d5 (IS3)	14.82	54	151743	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.03	65	313640	12.192	ng	0.03
Spiked Amount	12.500	Range	70 - 130	Recovery	=	97.52%
57) Toluene-d8 (SS2)	12.42	98	716612	12.281	ng	0.01
Spiked Amount	12.500	Range	70 - 130	Recovery	=	98.24%
73) Bromofluorobenzene (SS3)	16.80	174	304644	12.186	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	97.52%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.26	42	2118197	105.181	ng	99
3) Dichlorodifluoromethan...	3.34	85	3168245	90.201	ng	99
4) Chloromethane	3.49	50	1536016	67.857	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	3.59	135	1580474	95.795	ng	99
6) Vinyl Chloride	3.68	62	1855110	106.123	ng	100
7) 1,3-Butadiene	3.80	54	1607769	119.312	ng	88
8) Bromomethane	4.02	94	987336	87.568	ng	99
9) Chloroethane	4.16	64	864785	92.831	ng	100
10) Ethanol	4.38	45	4286987	309.303	ng	99
11) Acetonitrile	4.49	41	2927037	82.042	ng	91
12) Acrolein	4.56	56	1697442	173.061	ng	100
13) Acetone	4.67	58	4680884	459.452	ng	90
14) Trichlorofluoromethane	4.76	101	3098888	89.652	ng	99
15) 2-Propanol (Isopropanol)	4.93	45	6327067	146.200	ng	100
16) Acrylonitrile	5.05	53	3699820	180.794	ng	99
17) 1,1-Dichloroethene	5.27	96	1354042	97.357	ng	99
18) 2-Methyl-2-Propanol (t...	5.39	59	3567345	83.906	ng	95
19) Methylene Chloride	5.39	84	1297453	93.841	ng	98
20) 3-Chloro-1-propene (Al...	5.48	41	2467548	90.220	ng	95
21) Trichlorotrifluoroethane	5.58	151	1530439	95.743	ng	99
22) Carbon Disulfide	5.61	76	9181253	180.425	ng	99
23) trans-1,2-Dichloroethene	6.16	61	2259816	95.788	ng	100
24) 1,1-Dichloroethane	6.36	63	2586229	93.801	ng	100
25) Methyl tert-Butyl Ether	6.37	73	3931164	84.941	ng	100
26) Vinyl Acetate	6.48	86	639870	257.789	ng	# 87
27) 2-Butanone (MEK)	6.70	72	1627980	181.286	ng	# 93
28) cis-1,2-Dichloroethene	7.11	61	2153136	94.310	ng	100
29) Diisopropyl Ether	7.29	87	2177987	189.197	ng	# 70
30) Ethyl Acetate	7.31	61	2418213	371.572	ng	97
31) n-Hexane	7.29	57	2252964	89.842	ng	100
32) Chloroform	7.41	83	2723022	92.209	ng	100
34) Tetrahydrofuran (THF)	7.76	72	1506684	176.139	ng	96
35) Ethyl tert-Butyl Ether	7.83	87	3247325	190.058	ng	97
36) 1,2-Dichloroethane	8.14	62	2467476	93.718	ng	99
38) 1,1,1-Trichloroethane	8.41	97	2702228	91.549	ng	100
39) Isopropyl Acetate	9.22	61	8676	No Calib	#	
40) 1-Butanol	8.81	56	77671	No Calib		
41) Benzene	8.91	78	4973170	94.387	ng	99
42) Carbon Tetrachloride	9.08	117	2403217	91.720	ng	100
43) Cyclohexane	9.21	84	3620364	184.369	ng	98
44) tert-Amyl Methyl Ether	9.59	73	7680356	192.818	ng	99
45) 1,2-Dichloropropane	9.87	63	1345772	92.790	ng	100
46) Bromodichloromethane	10.09	83	2267740	95.162	ng	100
47) Trichloroethene	10.16	130	1532666	93.701	ng	100
48) 1,4-Dioxane	10.12	88	1094081	94.564	ng	99
49) 2,2,4-Trimethylpentane...	10.22	57	5771145	93.961	ng	100
50) Methyl Methacrylate	10.41	100	1109150	190.803	ng	98

Data File : I:\MS09\DATA\2023 02\27\02272317.D
 Acq On : 27 Feb 2023 17:43
 Sample : 100ng TO-15 ICAL STD
 Misc : S35-02212305/S35-02162303 (3/18)

Vial: 7
 Operator: SC
 Inst : MS09

Quant Time: Feb 28 08:27:15 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Feb 27 17:08:05 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

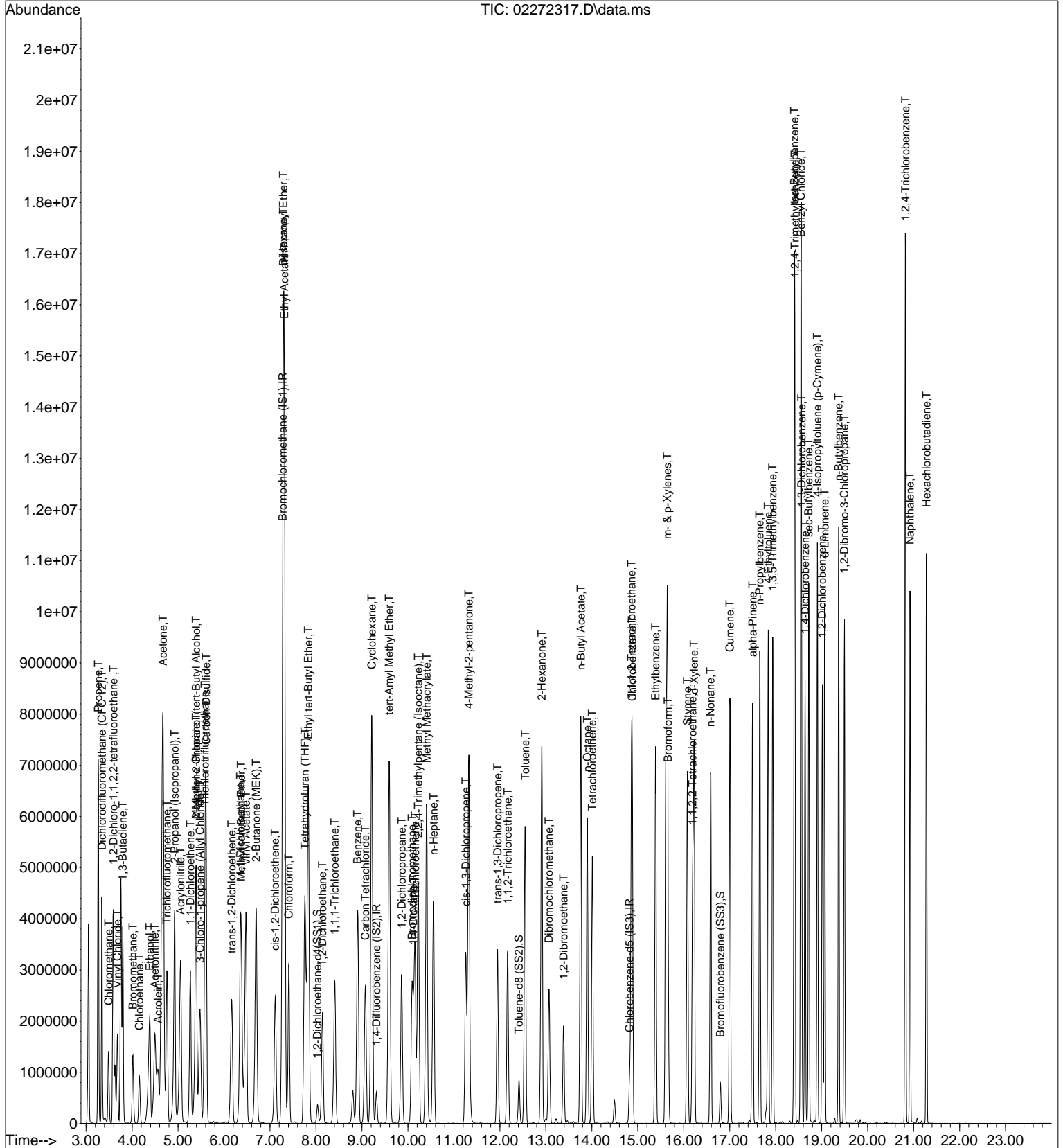
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.56	71	1229507	94.715	ng	99
52) cis-1,3-Dichloropropene	11.26	75	2325985	96.804	ng	99
53) 4-Methyl-2-pentanone	11.33	58	2644649	187.323	ng	94
54) trans-1,3-Dichloropropene	11.95	75	2294032	93.536	ng	99
55) 1,1,2-Trichloroethane	12.17	97	1367150	94.640	ng	99
58) Toluene	12.55	91	5440159	90.570	ng	99
59) 2-Hexanone	12.91	43	7338349	174.497	ng	96
60) Dibromochloromethane	13.07	129	2001160	96.111	ng	99
61) 1,2-Dibromoethane	13.39	107	1684264	92.390	ng	100
62) n-Butyl Acetate	13.76	43	7941201	167.953	ng	97
63) n-Octane	13.90	57	1237387	93.532	ng	99
64) Tetrachloroethene	14.01	166	2046230	92.647	ng	100
65) Chlorobenzene	14.88	112	3755826	92.706	ng	99
66) Ethylbenzene	15.39	91	6463538	89.289	ng	99
67) m- & p-Xylenes	15.64	91	10680993	177.921	ng	98
68) Bromoform	15.66	173	1973347	92.926	ng	100
69) Styrene	16.08	104	3780333	91.220	ng	99
70) o-Xylene	16.23	91	5276116	89.538	ng	99
71) n-Nonane	16.58	43	3175976	88.192	ng	97
72) 1,1,2,2-Tetrachloroethane	16.19	83	2276514	91.308	ng	100
74) Cumene	17.00	105	6490255	89.383	ng	98
75) alpha-Pinene	17.50	93	3381075	96.319	ng	100
76) n-Propylbenzene	17.65	91	7652615	88.233	ng	98
77) 3-Ethyltoluene	17.00	105	6490255	No Calib		
78) 4-Ethyltoluene	17.84	105	6425792	92.558	ng	99
79) 1,3,5-Trimethylbenzene	17.93	105	5418736	87.257	ng	98
80) alpha-Methylstyrene	17.00	118	10624	No Calib	#	
81) 2-Ethyltoluene	17.00	105	6490255	No Calib		
82) 1,2,4-Trimethylbenzene	18.42	105	5458439	85.023	ng	97
83) n-Decane	17.00	58	45267	No Calib		
84) Benzyl Chloride	18.55	91	8701656	184.088	ng	96
85) 1,3-Dichlorobenzene	18.56	146	3401319	88.531	ng	100
86) 1,4-Dichlorobenzene	18.64	146	3378123	89.142	ng	99
87) sec-Butylbenzene	18.72	105	6837093	84.735	ng	98
88) 4-Isopropyltoluene (p-...	18.91	119	6093404	85.154	ng	99
89) 1,2,3-Trimethylbenzene	17.00	105	6490255	No Calib		
90) 1,2-Dichlorobenzene	19.01	146	3358852	90.333	ng	100
91) d-Limonene	19.06	68	1994240	89.220	ng	99
92) 1,2-Dibromo-3-Chloropr...	19.50	157	2761894	176.200	ng	96
93) n-Undecane	18.08	58	3105	No Calib		
94) 1,2,4-Trichlorobenzene	20.82	180	5254105	158.692	ng	100
95) Naphthalene	20.92	128	6466026	91.788	ng	98
96) n-Dodecane	19.06	58	15048	No Calib	#	
97) Hexachlorobutadiene	21.28	225	1881167	81.410	ng	99
98) Cyclohexanone	15.27	55	526	No Calib	#	
99) tert-Butylbenzene	18.41	119	5208465	86.552	ng	98
100) n-Butylbenzene	19.37	91	5629198	85.125	ng	97
101) 1,1,1,2-Tetrachloroethane	14.86	131	1604784	92.494	ng	100

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

Data File : I:\MS09\DATA\2023 02\27\02272317.D
Acq On : 27 Feb 2023 17:43
Sample : 100ng TO-15 ICAL STD
Misc : S35-02212305/S35-02162303 (3/18)

Vial: 7
Operator: SC
Inst : MS09

Quant Time: Feb 28 08:27:15 2023
Quant Method : I:\MS09\METHODS\R9022723.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Feb 27 17:08:05 2023
Response via : Initial Calibration
DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2023 02\27\02272325.D
 Acq On : 28 Feb 2023 11:22
 Sample : 25ng TO-15 ICV STD
 Misc : S35-02212305/S35-02062302 (3/8)

Vial: 16
 Operator: SC
 Inst : MS09

Quant Time: Feb 28 11:44:02 2023

Quant Method : I:\MS09\METHODS\R9022723.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Tue Feb 28 08:30:18 2023

Response via : Initial Calibration

DataAcq Meth:TO15.M

 2/28/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.24	130	147842	12.500	ng	0.00
37) 1,4-Difluorobenzene (IS2)	9.29	114	629577	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	14.81	54	143819	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.00	65	302879	12.101	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	96.80%
57) Toluene-d8 (SS2)	12.40	98	698383	12.780	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.24%
73) Bromofluorobenzene (SS3)	16.79	174	301341	13.523	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	108.16%

Target Compounds

						Qvalue
2) Propene	3.25	42	427320	21.729	ng	99
3) Dichlorodifluoromethan...	3.33	85	750115	21.975	ng	100
4) Chloromethane	3.47	50	479332	22.359	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	3.57	135	360974	22.579	ng	100
6) Vinyl Chloride	3.66	62	391799	22.800	ng	99
7) 1,3-Butadiene	3.77	54	320401	26.868	ng	99
8) Bromomethane	3.99	94	262067	24.000	ng	100
9) Chloroethane	4.13	64	197205	22.000	ng	99
10) Ethanol	4.33	45	1456431	103.812	ng	99
11) Acetonitrile	4.45	41	664073	18.655	ng	99
12) Acrolein	4.53	56	443782	47.457	ng	99
13) Acetone	4.63	58	1096103	103.101	ng	100
14) Trichlorofluoromethane	4.73	101	729381	21.430	ng	100
15) 2-Propanol (Isopropanol)	4.87	45	1836836	44.254	ng	100
16) Acrylonitrile	5.01	53	861711	42.800	ng	100
17) 1,1-Dichloroethene	5.24	96	307300	22.333	ng	98
18) 2-Methyl-2-Propanol (t...	5.35	59	1787632	49.325	ng	99
19) Methylene Chloride	5.36	84	303373	21.621	ng	97
20) 3-Chloro-1-propene (Al...	5.44	41	502000	18.967	ng	96
21) Trichlorotrifluoroethane	5.56	151	357654	23.227	ng	98
22) Carbon Disulfide	5.58	76	2230918	43.680	ng	100
23) trans-1,2-Dichloroethene	6.14	61	514803	22.462	ng	98
24) 1,1-Dichloroethane	6.32	63	602404	21.411	ng	100
25) Methyl tert-Butyl Ether	6.35	73	1030178	23.735	ng	99
26) Vinyl Acetate	6.44	86	327954	159.180	ng	# 85
27) 2-Butanone (MEK)	6.66	72	382317	45.116	ng	96
28) cis-1,2-Dichloroethene	7.08	61	490829	21.102	ng	99
29) Diisopropyl Ether	7.27	87	496541	42.267	ng	# 26
30) Ethyl Acetate	7.27	61	238776	36.650	ng	97
31) n-Hexane	7.28	57	543322	20.085	ng	99
32) Chloroform	7.37	83	637093	21.456	ng	100
34) Tetrahydrofuran (THF)	7.73	72	349583	41.192	ng	97
35) Ethyl tert-Butyl Ether	7.80	87	754599	47.162	ng	99
36) 1,2-Dichloroethane	8.11	62	583987	22.629	ng	100
38) 1,1,1-Trichloroethane	8.38	97	646898	23.294	ng	99
39) Isopropyl Acetate	9.19	61	1951	No Calib	#	
40) 1-Butanol	8.81	56	3029	No Calib	#	
41) Benzene	8.88	78	1180266	21.966	ng	100
42) Carbon Tetrachloride	9.05	117	600790	25.370	ng	100
43) Cyclohexane	9.20	84	870274	43.539	ng	98
44) tert-Amyl Methyl Ether	9.57	73	1783779	48.839	ng	99
45) 1,2-Dichloropropane	9.84	63	314357	20.762	ng	100
46) Bromodichloromethane	10.06	83	538521	24.160	ng	99
47) Trichloroethene	10.13	130	367802	23.346	ng	100
48) 1,4-Dioxane	10.09	88	258573	24.573	ng	99
49) 2,2,4-Trimethylpentane...	10.21	57	1338761	20.375	ng	99
50) Methyl Methacrylate	10.38	100	261447	51.556	ng	97

Data File : I:\MS09\DATA\2023 02\27\02272325.D
 Acq On : 28 Feb 2023 11:22
 Sample : 25ng TO-15 ICV STD
 Misc : S35-02212305/S35-02062302 (3/8)

Vial: 16
 Operator: SC
 Inst : MS09

Quant Time: Feb 28 11:44:02 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.54	71	292419	21.846	ng	98
52) cis-1,3-Dichloropropene	11.24	75	590475	27.933	ng	99
53) 4-Methyl-2-pentanone	11.30	58	631433	47.981	ng	98
54) trans-1,3-Dichloropropene	11.93	75	500314	25.966	ng	100
55) 1,1,2-Trichloroethane	12.15	97	327167	23.380	ng	100
58) Toluene	12.53	91	1321256	22.708	ng	100
59) 2-Hexanone	12.89	43	1826325	49.855	ng	99
60) Dibromochloromethane	13.05	129	464627	26.068	ng	100
61) 1,2-Dibromoethane	13.37	107	394427	24.595	ng	100
62) n-Butyl Acetate	13.74	43	2064809	50.759	ng	100
63) n-Octane	13.89	57	291370	22.949	ng	100
64) Tetrachloroethene	14.00	166	495443	24.699	ng	100
65) Chlorobenzene	14.87	112	918106	23.875	ng	100
66) Ethylbenzene	15.38	91	1624986	24.351	ng	100
67) m- & p-Xylenes	15.62	91	2687745	49.078	ng	100
68) Bromoform	15.65	173	487059	28.610	ng	100
69) Styrene	16.07	104	925702	26.804	ng	100
70) o-Xylene	16.21	91	1327431	24.599	ng	100
71) n-Nonane	16.58	43	797487	23.408	ng	100
72) 1,1,2,2-Tetrachloroethane	16.18	83	572006	25.574	ng	100
74) Cumene	17.00	105	1613100	24.259	ng	100
75) alpha-Pinene	17.49	93	776782	27.708	ng	100
76) n-Propylbenzene	17.64	91	1931636	24.276	ng	100
77) 3-Ethyltoluene	17.00	105	1613100	No Calib		
78) 4-Ethyltoluene	17.83	105	1599107	25.426	ng	100
79) 1,3,5-Trimethylbenzene	17.93	105	1412586	24.999	ng	100
80) alpha-Methylstyrene	17.00	118	2786	No Calib	#	
81) 2-Ethyltoluene	17.00	105	1613100	No Calib		
82) 1,2,4-Trimethylbenzene	18.41	105	1438351	25.064	ng	100
83) n-Decane	17.00	58	11950	No Calib		
84) Benzyl Chloride	18.54	91	2332770	73.270	ng	100
85) 1,3-Dichlorobenzene	18.55	146	885592	26.636	ng	99
86) 1,4-Dichlorobenzene	18.63	146	866713	26.122	ng	100
87) sec-Butylbenzene	18.71	105	1787588	23.868	ng	100
88) 4-Isopropyltoluene (p-...	18.90	119	1577548	24.169	ng	99
89) 1,2,3-Trimethylbenzene	17.00	105	1613100	No Calib		
90) 1,2-Dichlorobenzene	19.01	146	864343	25.994	ng	99
91) d-Limonene	19.06	68	463450	24.109	ng	99
92) 1,2-Dibromo-3-Chloropr...	19.49	157	719125	57.536	ng	99
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	20.82	180	1582418	62.046	ng	100
95) Naphthalene	20.92	128	1849508	36.507	ng	100
96) n-Dodecane	19.06	58	4064	No Calib	#	
97) Hexachlorobutadiene	21.28	225	504742	23.866	ng	100
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	18.40	119	1354771	24.811	ng	100
100) n-Butylbenzene	19.37	91	1480254	24.754	ng	100
101) 1,1,1,2-Tetrachloroethane	14.85	131	385206	25.583	ng	100

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

ALS Environmental

LCS Acceptance Criteria

2/28/23

25ng TO-15 ICV STD

	RT
Bromochloromethane (IS1)	7.24
1,4-Difluorobenzene (IS2)	9.29
Chlorobenzene-d5 (IS3)	14.81

Datafile: 02272325.D
Instrument: MS-09
Date: 2/28/2023

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	21.729	26.5	82	56-128	ok	70-130	ok	57-136	ok
75-71-8	Dichlorodifluoromethane	21.975	26.5	83	71-112	ok	70-130	ok	59-128	ok
74-87-3	Chloromethane	22.359	26.3	85	53-126	ok	70-130	ok	59-132	ok
76-14-2	Freon 114	22.579	26.8	84	62-121	ok	70-130	ok	63-121	ok
75-01-4	Vinyl Chloride	22.800	26.3	87	63-123	ok	70-130	ok	64-127	ok
106-99-0	1,3-Butadiene	26.868	26.3	102	63-135	ok	70-130	ok	66-134	ok
74-83-9	Bromomethane	24.000	26.3	91	71-112	ok	70-130	ok	63-134	ok
75-00-3	Chloroethane	22.000	26.5	83	66-117	ok	70-130	ok	63-127	ok
64-17-5	Ethanol	103.812	138	75	57-117	ok	70-130	ok	59-125	ok
75-05-8	Acetonitrile	18.655	26.8	70	59-131	ok	70-130	ok	63-132	ok
107-02-8	Acrolein	47.457	55.0	86	71-123	ok	70-130	ok	62-126	ok
67-64-1	Acetone	103.101	133	78	60-117	ok	70-130	ok	58-128	ok
75-69-4	Trichlorofluoromethane	21.430	26.3	81	71-114	ok	70-130	ok	62-126	ok
67-63-0	Isopropanol	44.254	51.8	85	61-124	ok	70-130	ok	52-125	ok
107-13-1	Acrylonitrile	42.800	52.3	82	65-130	ok	70-130	ok	71-137	ok
75-35-4	1,1-Dichloroethene	22.333	25.5	88	74-114	ok	70-130	ok	61-133	ok
75-65-0	tert-Butanol	49.325	51.0	97	56-135	ok	70-130	ok	24-150	ok
75-09-2	Methylene Chloride	21.621	25.5	85	75-112	ok	70-130	ok	62-115	ok
107-05-1	Allyl Chloride	18.967	26.5	72	57-127	ok	70-130	ok	71-131	ok
76-13-1	Trichlorotrifluoroethane	23.227	26.3	88	73-114	ok	70-130	ok	66-126	ok
75-15-0	Carbon Disulfide	43.680	53.8	81	70-113	ok	70-130	ok	57-134	ok
156-60-5	trans-1,2-Dichloroethene	22.462	27.0	83	76-119	ok	70-130	ok	67-124	ok
75-34-3	1,1-Dichloroethane	21.411	27.0	79	70-114	ok	70-130	ok	68-126	ok
1634-04-4	Methyl tert-Butyl Ether	23.735	27.0	88	72-118	ok	70-130	ok	66-126	ok
108-05-4	Vinyl Acetate	159.180	138	115	56-137	ok	70-130	ok	56-139	ok
78-93-3	2-Butanone	45.116	51.8	87	74-121	ok	70-130	ok	67-130	ok
156-59-2	cis-1,2-Dichloroethene	21.102	26.8	79	73-117	ok	70-130	ok	70-121	ok
108-20-3	Diisopropyl Ether	42.267	53.3	79	58-124	ok	70-130	ok	70-117	ok
141-78-6	Ethyl Acetate	36.650	49.8	74	59-161	ok	70-130	ok	65-128	ok
110-54-3	n-Hexane	20.085	26.5	76	55-130	ok	70-130	ok	63-120	ok
67-66-3	Chloroform	21.456	27.0	79	71-114	ok	70-130	ok	68-123	ok
109-99-9	Tetrahydrofuran	41.192	50.3	82	73-114	ok	70-130	ok	64-123	ok
637-92-3	Ethyl tert-Butyl Ether	47.162	53.3	88	76-119	ok	70-130	ok	61-130	ok
107-06-2	1,2-Dichloroethane	22.629	25.5	89	71-119	ok	70-130	ok	65-128	ok
71-55-6	1,1,1-Trichloroethane	23.294	26.3	89	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	21.966	25.5	86	72-113	ok	70-130	ok	69-119	ok
56-23-5	Carbon Tetrachloride	25.370	26.3	96	67-123	ok	70-130	ok	68-132	ok
110-82-7	Cyclohexane	43.539	53.3	82	70-119	ok	70-130	ok	70-117	ok
994-05-8	tert-Amyl Methyl Ether	48.839	53.3	92	74-120	ok	70-130	ok	62-133	ok
78-87-5	1,2-Dichloropropane	20.762	26.8	77	70-118	ok	70-130	ok	69-123	ok
75-27-4	Bromodichloromethane	24.160	27.0	89	74-119	ok	70-130	ok	72-128	ok
79-01-6	Trichloroethene	23.346	26.5	88	74-115	ok	70-130	ok	71-123	ok
123-91-1	1,4-Dioxane	24.573	26.5	93	77-124	ok	70-130	ok	71-122	ok
540-84-1	Isooctane	20.375	26.8	76	65-120	ok	70-130	ok	68-121	ok
80-62-6	Methyl Methacrylate	51.556	53.5	96	78-126	ok	70-130	ok	70-128	ok
142-82-5	n-Heptane	21.846	26.8	82	70-119	ok	70-130	ok	69-123	ok
10061-01-5	cis-1,3-Dichloropropene	27.933	26.5	105	81-126	ok	70-130	ok	70-128	ok
108-10-1	4-Methyl-2-pentanone	47.981	53.3	90	73-129	ok	70-130	ok	67-130	ok

ALS Environmental

LCS Acceptance Criteria

25ng TO-15 ICV STD

	RT
Bromochloromethane (IS1)	7.24
1,4-Difluorobenzene (IS2)	9.29
Chlorobenzene-d5 (IS3)	14.81

Datafile: 02272325.D
Instrument: MS-09
Date: 2/28/2023

CAS No	Analyte	Amount Found	Spike Amount	% REC	ALS		70-130		DOD	
					LCS Limits	Pass/Fail	LCS Limits	Pass/Fail	LCS Limits	Pass/Fail
10061-02-6	trans-1,3-Dichloropropene	25.966	24.5	106	80-127	ok	70-130	ok	75-133	ok
79-00-5	1,1,2-Trichloroethane	23.380	27.0	87	78-117	ok	70-130	ok	73-119	ok
108-88-3	Toluene	22.708	26.8	85	70-118	ok	70-130	ok	66-119	ok
591-78-6	2-Hexanone	49.855	53.3	94	74-132	ok	70-130	ok	62-128	ok
124-48-1	Dibromochloromethane	26.068	26.8	97	69-137	ok	70-130	ok	70-130	ok
106-93-4	1,2-Dibromoethane	24.595	25.5	96	76-128	ok	70-130	ok	74-122	ok
123-86-4	Butyl Acetate	50.759	53.0	96	75-134	ok	70-130	ok	65-134	ok
111-65-9	n-Octane	22.949	26.5	87	68-120	ok	70-130	ok	69-121	ok
127-18-4	Tetrachloroethene	24.699	26.8	92	63-130	ok	70-130	ok	66-124	ok
108-90-7	Chlorobenzene	23.875	27.0	88	70-118	ok	70-130	ok	70-119	ok
100-41-4	Ethylbenzene	24.351	27.3	89	71-123	ok	70-130	ok	70-124	ok
179601-23-1	m- & p-Xylene	49.078	53.8	91	67-127	ok	70-130	ok	61-134	ok
75-25-2	Bromoform	28.610	27.3	105	65-149	ok	70-130	ok	66-139	ok
100-42-5	Styrene	26.804	26.8	100	76-132	ok	70-130	ok	73-127	ok
95-47-6	o-Xylene	24.599	27.0	91	69-124	ok	70-130	ok	67-125	ok
111-84-2	n-Nonane	23.408	26.8	87	64-127	ok	70-130	ok	63-128	ok
79-34-5	1,1,2,2-Tetrachloroethane	25.574	27.0	95	69-128	ok	70-130	ok	65-127	ok
98-82-8	Cumene	24.259	26.5	92	69-125	ok	70-130	ok	68-124	ok
80-56-8	alpha-Pinene	27.708	27.0	103	68-129	ok	70-130	ok	62-136	ok
103-65-1	n-Propylbenzene	24.276	26.5	92	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	25.426	27.3	93	69-127	ok	70-130	ok	67-129	ok
108-67-8	1,3,5-Trimethylbenzene	24.999	27.0	93	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	25.064	26.5	95	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	73.270	53.5	137	73-145	ok	70-130	FAIL	50-147	ok
541-73-1	1,3-Dichlorobenzene	26.636	26.8	99	67-136	ok	70-130	ok	65-130	ok
106-46-7	1,4-Dichlorobenzene	26.122	26.8	97	63-134	ok	70-130	ok	60-131	ok
135-98-8	sec-Butylbenzene	23.868	26.3	91	68-130	ok	70-130	ok	68-125	ok
99-87-6	p-Isopropyltoluene	24.169	26.3	92	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	25.994	26.5	98	64-139	ok	70-130	ok	63-129	ok
5989-27-5	d-Limonene	24.109	26.0	93	63-137	ok	70-130	ok	65-136	ok
96-12-8	1,2-Dibromo-3-Chloropropane	57.536	52.0	111	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	62.046	55.0	113	62-154	ok	70-130	ok	55-142	ok
91-20-3	Naphthalene	36.507	27.5	133	62-156	ok	70-130	FAIL	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	23.866	27.3	87	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	24.811	26.5	94	61-140	ok	70-130	ok	65-124	ok
104-51-8	n-Butylbenzene	24.754	26.0	95	70-131	ok	70-130	ok	66-130	ok

Data File : I:\MS09\DATA\2023 03\21\03212301.D
 Acq On : 21 Mar 2023 00:20
 Sample : CCV R09032123 25ng
 Misc : S35-02212305/S37-03162303 (4/15)

Vial: 2
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 21 08:21:13 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

107 3/21/23

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 (IS1)	1.000	1.000	0.0	114	-0.01
2 T	Propene	1.663	1.826	-9.8	126	0.00
3 T	Dichlorodifluoromethane (CF	2.886	2.706	6.2	107	-0.03
4 T	Chloromethane	1.813	2.092	-15.4	128	0.00
5 T	1,2-Dichloro-1,1,2,2-tetra	1.352	1.149	15.0	97	0.00
6 T	Vinyl Chloride	1.453	1.441	0.8	114	-0.01
7 T	1,3-Butadiene	1.008	1.019	-1.1	105	0.00
8 T	Bromomethane	0.923	0.940	-1.8	116	-0.01
9 T	Chloroethane	0.758	0.842	-11.1	125	0.00
10 T	Ethanol	1.186	1.187	-0.1	119	-0.02
11 T	Acetonitrile	3.010	3.164	-5.1	123	-0.01
12 T	Acrolein	0.791	0.831	-5.1	117	-0.01
13 T	Acetone	0.899	0.859	4.4	117	-0.01
14 T	Trichlorofluoromethane	2.878	2.497	13.2	100	0.00
15 T	2-Propanol (Isopropanol)	3.509	3.462	1.3	111	-0.01
16 T	Acrylonitrile	1.702	1.714	-0.7	116	-0.01
17 T	1,1-Dichloroethene	1.163	1.080	7.1	108	0.00
18 T	2-Methyl-2-Propanol (tert-B	3.064	3.414	-11.4	111	-0.02
19 T	Methylene Chloride	1.186	1.162	2.0	117	0.00
20 T	3-Chloro-1-propene (Allyl C	2.238	2.332	-4.2	118	0.00
21 T	Trichlorotrifluoroethane	1.302	1.010	22.4	88	0.00
22 T	Carbon Disulfide	4.318	4.236	1.9	115	0.00
23 T	trans-1,2-Dichloroethene	1.938	1.907	1.6	112	0.00
24 T	1,1-Dichloroethane	2.379	2.290	3.7	115	-0.01
25 T	Methyl tert-Butyl Ether	3.670	3.821	-4.1	114	0.00
26 T	Vinyl Acetate	0.174	0.202	-16.1	113	0.00
27 T	2-Butanone (MEK)	0.716	0.775	-8.2	120	-0.01
28 T	cis-1,2-Dichloroethene	1.967	1.835	6.7	111	0.00
29 T	Diisopropyl Ether	0.993	0.900	9.4	108	-0.01
30 T	Ethyl Acetate	0.551	0.494	10.3	105	0.00
31 T	n-Hexane	2.287	1.978	13.5	109	0.00
32 T	Chloroform	2.511	2.280	9.2	107	-0.01
33 S	1,2-Dichloroethane-d4 (SS1)	2.116	2.195	-3.7	118	0.00
34 T	Tetrahydrofuran (THF)	0.718	0.730	-1.7	118	0.00
35 T	Ethyl tert-Butyl Ether	1.353	1.408	-4.1	114	0.00
36 T	1,2-Dichloroethane	2.182	1.955	10.4	103	0.00
37 IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	120	0.00
38 T	1,1,1-Trichloroethane	0.551	0.472	14.3	100	0.00
39 T	Isopropyl Acetate	0.000	0.000	0.0	92	0.00
40 T	1-Butanol	0.000	0.000	0.0	116	0.00
41 T	Benzene	1.067	0.985	7.7	116	0.00
42 T	Carbon Tetrachloride	0.470	0.418	11.1	99	0.00
43 T	Cyclohexane	0.397	0.370	6.8	117	0.00
44 T	tert-Amyl Methyl Ether	0.725	0.756	-4.3	118	0.00
45 T	1,2-Dichloropropane	0.301	0.276	8.3	118	0.00
46 T	Bromodichloromethane	0.443	0.407	8.1	106	0.00
47 T	Trichloroethene	0.313	0.268	14.4	102	0.00
48 T	1,4-Dioxane	0.209	0.209	0.0	112	0.00
49 T	2,2,4-Trimethylpentane (Iso	1.305	1.150	11.9	116	0.00
50 T	Methyl Methacrylate	0.101	0.099	2.0	106	0.00
51 T	n-Heptane	0.266	0.254	4.5	122	0.00
52 T	cis-1,3-Dichloropropene	0.420	0.449	-6.9	116	0.00
53 T	4-Methyl-2-pentanone	0.261	0.253	3.1	112	0.00
54 T	trans-1,3-Dichloropropene	0.383	0.454	-18.5	115	0.00
55 T	1,1,2-Trichloroethane	0.278	0.252	9.4	108	0.00

Data File : I:\MS09\DATA\2023 03\21\03212301.D
 Acq On : 21 Mar 2023 00:20
 Sample : CCV R09032123 25ng
 Misc : S35-02212305/S37-03162303 (4/15)

Vial: 2
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 21 08:21:13 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.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	120	0.00
57 S	Toluene-d8 (SS2)	4.750	5.125	-7.9	128	0.00
58 T	Toluene	5.057	4.467	11.7	108	0.00
59 T	2-Hexanone	3.184	3.130	1.7	108	0.00
60 T	Dibromochloromethane	1.549	1.437	7.2	101	0.00
61 T	1,2-Dibromoethane	1.394	1.320	5.3	106	0.00
62 T	n-Butyl Acetate	3.536	3.515	0.6	108	0.00
63 T	n-Octane	1.104	1.045	5.3	115	0.00
64 T	Tetrachloroethene	1.743	1.290	26.0	85	0.00
65 T	Chlorobenzene	3.342	2.968	11.2	107	0.00
66 T	Ethylbenzene	5.800	5.302	8.6	107	0.00
67 T	m- & p-Xylenes	4.760	4.337	8.9	105	0.00
68 T	Bromoform	1.480	1.237	16.4	85	0.00
69 T	Styrene	3.002	3.206	-6.8	113	0.00
70 T	o-Xylene	4.690	4.286	8.6	106	0.00
71 T	n-Nonane	2.961	2.817	4.9	114	0.00
72 T	1,1,2,2-Tetrachloroethane	1.944	1.976	-1.6	115	0.00
73 S	Bromofluorobenzene (SS3)	1.937	1.654	14.6	96	0.00
74 T	Cumene	5.779	5.266	8.9	106	0.00
75 T	alpha-Pinene	2.437	2.765	-13.5	115	0.00
76 T	n-Propylbenzene	6.916	6.383	7.7	107	0.00
77 T	3-Ethyltoluene	0.000	0.000	0.0	106	0.00
78 T	4-Ethyltoluene	5.466	5.111	6.5	107	0.00
79 T	1,3,5-Trimethylbenzene	4.911	4.508	8.2	106	0.00
80 T	alpha-Methylstyrene	0.000	0.000	0.0	116	-0.09
81 T	2-Ethyltoluene	0.000	0.000	0.0	106	0.00
82 T	1,2,4-Trimethylbenzene	4.988	4.601	7.8	104	0.00
83 T	n-Decane	0.000	0.000	0.0	110	0.00
84 T	Benzyl Chloride	2.767	3.812	-37.8#	117	0.00
85 T	1,3-Dichlorobenzene	2.890	2.499	13.5	95	0.00
86 T	1,4-Dichlorobenzene	2.884	2.530	12.3	97	0.00
87 T	sec-Butylbenzene	6.509	5.866	9.9	106	0.00
88 T	4-Isopropyltoluene (p-Cymen)	5.673	5.028	11.4	102	0.00
89 T	1,2,3-Trimethylbenzene	0.000	0.000	0.0	106	0.00
90 T	1,2-Dichlorobenzene	2.890	2.432	15.8	95	0.00
91 T	d-Limonene	1.671	1.805	-8.0	118	0.00
92 T	1,2-Dibromo-3-Chloropropane	1.086	0.979	9.9	91	0.00
93 T	n-Undecane	0.000	0.000	0.0	29#	0.00
94 T	1,2,4-Trichlorobenzene	2.217	2.118	4.5	93	0.00
95 T	Naphthalene	4.403	5.955	-35.2#	123	0.00
96 T	n-Dodecane	0.000	0.000	0.0	112	0.00
97 T	Hexachlorobutadiene	1.838	1.451	21.1	91	0.00
98 T	Cyclohexanone	0.000	0.000	0.0	0#	-15.27#
99 T	tert-Butylbenzene	4.746	4.171	12.1	101	0.00
100 T	n-Butylbenzene	5.197	4.910	5.5	108	0.00
101 T	1,1,1,2-Tetrachloroethane	1.309	1.166	10.9	98	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data File : I:\MS09\DATA\2023 03\21\03212301.D
 Acq On : 21 Mar 2023 00:20
 Sample : CCV R09032123 25ng
 Misc : S35-02212305/S37-03162303 (4/15)

Vial: 2
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 21 08:21:13 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

DA 3/21/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	7.23	130	166333	12.500	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	9.29	114	751591	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	14.81	54	172820	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.00	65	365109	12.966	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	103.76%
57) Toluene-d8 (SS2)	12.40	98	885765	13.489	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	107.92%
73) Bromofluorobenzene (SS3)	16.79	174	285787	10.673	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	85.36%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.25	42	637825	28.828	ng	96
3) Dichlorodifluoromethan...	3.32	85	954190	24.846	ng	99
4) Chloromethane	3.47	50	716914	29.724	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	3.57	135	397486	22.099	ng	98
6) Vinyl Chloride	3.65	62	484325	25.051	ng	98
7) 1,3-Butadiene	3.77	54	359476	26.794	ng	96
8) Bromomethane	3.99	94	318872	25.956	ng	96
9) Chloroethane	4.13	64	288463	28.604	ng	100
10) Ethanol	4.31	45	1362418	86.315	ng	100
11) Acetonitrile	4.44	41	957852	23.916	ng	99
12) Acrolein	4.52	56	533658	50.723	ng	98
13) Acetone	4.62	58	1505142	125.837	ng	# 85
14) Trichlorofluoromethane	4.73	101	863972	22.562	ng	98
15) 2-Propanol (Isopropanol)	4.86	45	2360930	50.557	ng	100
16) Acrylonitrile	5.00	53	1168812	51.599	ng	98
17) 1,1-Dichloroethene	5.24	96	388129	25.072	ng	96
18) 2-Methyl-2-Propanol (t...	5.33	59	2396644	58.778	ng	99
19) Methylene Chloride	5.36	84	409848	25.962	ng	96
20) 3-Chloro-1-propene (Al...	5.44	41	822148	27.609	ng	98
21) Trichlorotrifluoroethane	5.56	151	363029	20.955	ng	81
22) Carbon Disulfide	5.58	76	3001684	52.238	ng	100
23) trans-1,2-Dichloroethene	6.14	61	685088	26.569	ng	97
24) 1,1-Dichloroethane	6.32	63	815146	25.752	ng	100
25) Methyl tert-Butyl Ether	6.35	73	1360203	27.855	ng	100
26) Vinyl Acetate	6.44	86	188538	81.338	ng	# 90
27) 2-Butanone (MEK)	6.65	72	538623	56.495	ng	# 85
28) cis-1,2-Dichloroethene	7.08	61	647080	24.727	ng	96
29) Diisopropyl Ether	7.26	87	634427	48.001	ng	# 92
30) Ethyl Acetate	7.27	61	694158	94.701	ng	96
31) n-Hexane	7.27	57	690751	22.696	ng	97
32) Chloroform	7.36	83	803953	24.065	ng	97
34) Tetrahydrofuran (THF)	7.73	72	495364	51.881	ng	95
35) Ethyl tert-Butyl Ether	7.80	87	992791	55.150	ng	96
36) 1,2-Dichloroethane	8.11	62	702247	24.186	ng	98
38) 1,1,1-Trichloroethane	8.38	97	745712	22.493	ng	98
39) Isopropyl Acetate	9.20	61	2361	No Calib		#
40) 1-Butanol	8.79	56	23244	No Calib		
41) Benzene	8.88	78	1583730	24.690	ng	100
42) Carbon Tetrachloride	9.05	117	652689	23.087	ng	100
43) Cyclohexane	9.19	84	1167044	48.907	ng	95
44) tert-Amyl Methyl Ether	9.56	73	2407594	55.218	ng	96
45) 1,2-Dichloropropane	9.84	63	435865	24.113	ng	98
46) Bromodichloromethane	10.06	83	654720	24.605	ng	97
47) Trichloroethene	10.13	130	422520	22.465	ng	100
48) 1,4-Dioxane	10.09	88	332284	26.452	ng	99
49) 2,2,4-Trimethylpentane...	10.21	57	1866606	23.796	ng	95
50) Methyl Methacrylate	10.38	100	314372	51.928	ng	# 85

Data File : I:\MS09\DATA\2023 03\21\03212301.D
 Acq On : 21 Mar 2023 00:20
 Sample : CCV R09032123 25ng
 Misc : S35-02212305/S37-03162303 (4/15)

Vial: 2
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 21 08:21:13 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

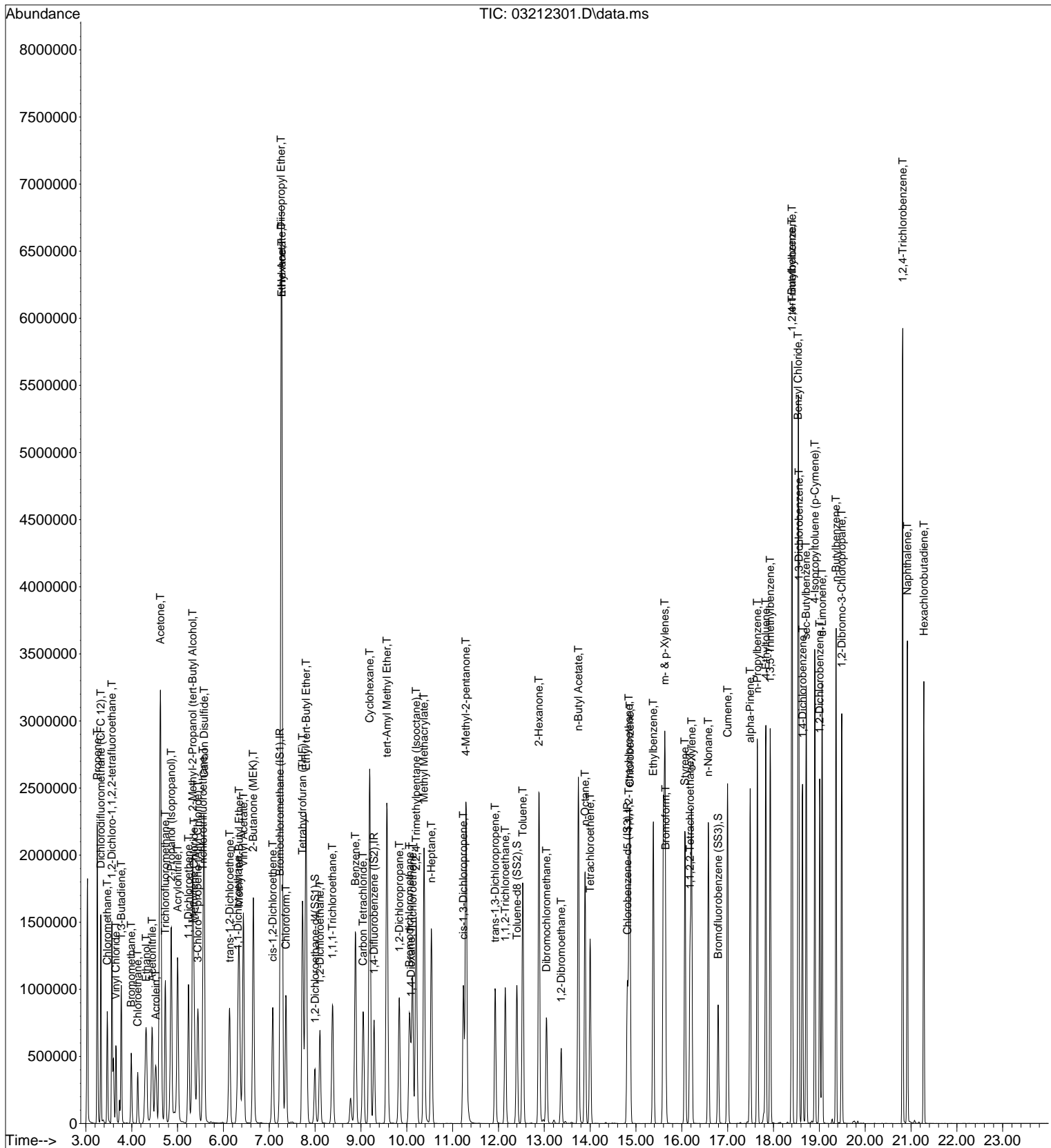
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.54	71	404549	25.317	ng	95
52) cis-1,3-Dichloropropene	11.23	75	729205	28.896	ng	100
53) 4-Methyl-2-pentanone	11.29	58	817770	52.052	ng	95
54) trans-1,3-Dichloropropene	11.93	75	696646	30.286	ng	100
55) 1,1,2-Trichloroethane	12.15	97	401103	24.010	ng	94
58) Toluene	12.53	91	1621235	23.188	ng	97
59) 2-Hexanone	12.88	43	2293246	52.095	ng	97
60) Dibromochloromethane	13.05	129	536523	25.050	ng	99
61) 1,2-Dibromoethane	13.37	107	474534	24.625	ng	97
62) n-Butyl Acetate	13.74	43	2490800	50.955	ng	98
63) n-Octane	13.89	57	386560	25.337	ng	96
64) Tetrachloroethene	14.00	166	472462	19.601	ng	100
65) Chlorobenzene	14.87	112	1087384	23.532	ng	99
66) Ethylbenzene	15.38	91	1924056	23.994	ng	100
67) m- & p-Xylenes	15.63	91	3147749	47.833	ng	99
68) Bromoform	15.65	173	457592	22.368	ng	99
69) Styrene	16.07	104	1174672	28.305	ng	100
70) o-Xylene	16.21	91	1570153	24.214	ng	100
71) n-Nonane	16.58	43	1032183	25.213	ng	98
72) 1,1,2,2-Tetrachloroethane	16.18	83	723946	26.936	ng	96
74) Cumene	17.00	105	1947578	24.374	ng	99
75) alpha-Pinene	17.49	93	1041864	30.927	ng	99
76) n-Propylbenzene	17.64	91	2360608	24.688	ng	100
77) 3-Ethyltoluene	17.00	105	1947578	No Calib		
78) 4-Ethyltoluene	17.83	105	1925444	25.477	ng	99
79) 1,3,5-Trimethylbenzene	17.93	105	1651814	24.327	ng	98
80) alpha-Methylstyrene	17.00	118	3561	No Calib	#	
81) 2-Ethyltoluene	17.00	105	1947578	No Calib		
82) 1,2,4-Trimethylbenzene	18.41	105	1669666	24.212	ng	99
83) n-Decane	17.00	58	14753	No Calib		
84) Benzyl Chloride	18.54	91	2792926	73.002	ng	99
85) 1,3-Dichlorobenzene	18.55	146	915556	22.916	ng	99
86) 1,4-Dichlorobenzene	18.63	146	926778	23.245	ng	100
87) sec-Butylbenzene	18.71	105	2149064	23.880	ng	98
88) 4-Isopropyltoluene (p-...	18.90	119	1842308	23.489	ng	99
89) 1,2,3-Trimethylbenzene	17.00	105	1947578	No Calib		
90) 1,2-Dichlorobenzene	19.01	146	899258	22.505	ng	100
91) d-Limonene	19.06	68	667634	28.903	ng	96
92) 1,2-Dibromo-3-Chloropr...	19.49	157	710258	47.290	ng	# 80
93) n-Undecane	18.11	58	108	No Calib	#	
94) 1,2,4-Trichlorobenzene	20.82	180	1530329	49.935	ng	99
95) Naphthalene	20.92	128	2264008	37.190	ng	100
96) n-Dodecane	19.06	58	5069	No Calib	#	
97) Hexachlorobutadiene	21.28	225	531506	20.914	ng	100
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	18.40	119	1528033	23.288	ng	99
100) n-Butylbenzene	19.37	91	1815816	25.270	ng	97
101) 1,1,1,2-Tetrachloroethane	14.85	131	427165	23.609	ng	99

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

Data File : I:\MS09\DATA\2023 03\21\03212301.D
Acq On : 21 Mar 2023 00:20
Sample : CCV R09032123 25ng
Misc : S35-02212305/S37-03162303 (4/15)

Vial: 2
Operator: WA/SR
Inst : MS09

Quant Time: Mar 21 08:21:13 2023
Quant Method : I:\MS09\METHODS\R9022723.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Feb 28 08:30:18 2023
Response via : Initial Calibration
DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2023 03\21\03212330.D
 Acq On : 21 Mar 2023 22:07
 Sample : CCV2 R09032123_25ng
 Misc : S35-02212305

Vial: 2
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 22 04:41:30 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

WA 3/22/23

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 (IS1)	1.000	1.000	0.0	117	0.00
2 T	Propene	1.663	1.835	-10.3	129	0.00
3 T	Dichlorodifluoromethane (CF	2.886	2.643	8.4	106	-0.01
4 T	Chloromethane	1.813	2.099	-15.8	131	0.00
5 T	1,2-Dichloro-1,1,2,2-tetra	1.352	1.158	14.3	99	0.00
6 T	Vinyl Chloride	1.453	1.547	-6.5	125	0.00
7 T	1,3-Butadiene	1.008	1.057	-4.9	111	0.00
8 T	Bromomethane	0.923	0.962	-4.2	121	0.00
9 T	Chloroethane	0.758	0.849	-12.0	129	0.00
10 T	Ethanol	1.186	1.202	-1.3	123	0.00
11 T	Acetonitrile	3.010	3.240	-7.6	129	0.00
12 T	Acrolein	0.791	0.845	-6.8	122	0.00
13 T	Acetone	0.899	0.873	2.9	121	0.00
14 T	Trichlorofluoromethane	2.878	2.430	15.6	99	0.00
15 T	2-Propanol (Isopropanol)	3.509	3.505	0.1	115	0.00
16 T	Acrylonitrile	1.702	1.743	-2.4	120	0.00
17 T	1,1-Dichloroethene	1.163	1.089	6.4	111	0.00
18 T	2-Methyl-2-Propanol (tert-B	3.064	3.374	-10.1	112	0.00
19 T	Methylene Chloride	1.186	1.165	1.8	119	0.00
20 T	3-Chloro-1-propene (Allyl C	2.238	2.288	-2.2	118	0.00
21 T	Trichlorotrifluoroethane	1.302	0.996	23.5	88	0.00
22 T	Carbon Disulfide	4.318	4.280	0.9	119	0.00
23 T	trans-1,2-Dichloroethene	1.938	1.923	0.8	115	0.00
24 T	1,1-Dichloroethane	2.379	2.310	2.9	119	0.00
25 T	Methyl tert-Butyl Ether	3.670	3.789	-3.2	116	0.00
26 T	Vinyl Acetate	0.174	0.204	-17.2	117	0.00
27 T	2-Butanone (MEK)	0.716	0.788	-10.1	124	0.00
28 T	cis-1,2-Dichloroethene	1.967	1.843	6.3	114	0.00
29 T	Diisopropyl Ether	0.993	0.904	9.0	111	0.00
30 T	Ethyl Acetate	0.551	0.505	8.3	110	0.00
31 T	n-Hexane	2.287	2.020	11.7	114	0.00
32 T	Chloroform	2.511	2.260	10.0	108	0.00
33 S	1,2-Dichloroethane-d4 (SS1)	2.116	2.181	-3.1	120	0.00
34 T	Tetrahydrofuran (THF)	0.718	0.741	-3.2	123	0.00
35 T	Ethyl tert-Butyl Ether	1.353	1.398	-3.3	116	0.00
36 T	1,2-Dichloroethane	2.182	1.932	11.5	104	0.00
37 IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	123	0.00
38 T	1,1,1-Trichloroethane	0.551	0.468	15.1	101	0.00
39 T	Isopropyl Acetate	0.000	0.000	0.0	94	0.01
40 T	1-Butanol	0.000	0.000	0.0	123	0.00
41 T	Benzene	1.067	0.992	7.0	119	0.00
42 T	Carbon Tetrachloride	0.470	0.410	12.8	99	0.00
43 T	Cyclohexane	0.397	0.373	6.0	120	0.00
44 T	tert-Amyl Methyl Ether	0.725	0.755	-4.1	120	0.00
45 T	1,2-Dichloropropane	0.301	0.282	6.3	123	0.00
46 T	Bromodichloromethane	0.443	0.406	8.4	108	0.00
47 T	Trichloroethene	0.313	0.267	14.7	104	0.00
48 T	1,4-Dioxane	0.209	0.211	-1.0	115	0.00
49 T	2,2,4-Trimethylpentane (Iso	1.305	1.176	9.9	121	0.00
50 T	Methyl Methacrylate	0.101	0.099	2.0	108	0.00
51 T	n-Heptane	0.266	0.258	3.0	126	0.00
52 T	cis-1,3-Dichloropropene	0.420	0.450	-7.1	119	0.00
53 T	4-Methyl-2-pentanone	0.261	0.257	1.5	115	0.00
54 T	trans-1,3-Dichloropropene	0.383	0.455	-18.8	118	0.00
55 T	1,1,2-Trichloroethane	0.278	0.251	9.7	110	0.00

Data File : I:\MS09\DATA\2023 03\21\03212330.D
 Acq On : 21 Mar 2023 22:07
 Sample : CCV2 R09032123_25ng
 Misc : S35-02212305

Vial: 2
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 22 04:41:30 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.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	120	0.00
57 S	Toluene-d8 (SS2)	4.750	5.250	-10.5	131	0.00
58 T	Toluene	5.057	4.580	9.4	111	0.00
59 T	2-Hexanone	3.184	3.251	-2.1	113	0.00
60 T	Dibromochloromethane	1.549	1.436	7.3	101	0.00
61 T	1,2-Dibromoethane	1.394	1.341	3.8	107	0.00
62 T	n-Butyl Acetate	3.536	3.666	-3.7	113	0.00
63 T	n-Octane	1.104	1.086	1.6	120	0.00
64 T	Tetrachloroethene	1.743	1.286	26.2	85	0.00
65 T	Chlorobenzene	3.342	3.008	10.0	108	0.00
66 T	Ethylbenzene	5.800	5.410	6.7	109	0.00
67 T	m- & p-Xylenes	4.760	4.411	7.3	107	0.00
68 T	Bromoform	1.480	1.227	17.1	84	0.00
69 T	Styrene	3.002	3.265	-8.8	115	0.00
70 T	o-Xylene	4.690	4.342	7.4	107	0.00
71 T	n-Nonane	2.961	2.936	0.8	119	0.00
72 T	1,1,2,2-Tetrachloroethane	1.944	2.041	-5.0	119	0.00
73 S	Bromofluorobenzene (SS3)	1.937	1.631	15.8	95	0.00
74 T	Cumene	5.779	5.335	7.7	107	0.00
75 T	alpha-Pinene	2.437	2.804	-15.1	116	0.00
76 T	n-Propylbenzene	6.916	6.487	6.2	109	0.00
77 T	3-Ethyltoluene	0.000	0.000	0.0	107	0.00
78 T	4-Ethyltoluene	5.466	5.186	5.1	109	0.00
79 T	1,3,5-Trimethylbenzene	4.911	4.545	7.5	107	0.00
80 T	alpha-Methylstyrene	0.000	0.000	0.0	120	-0.10
81 T	2-Ethyltoluene	0.000	0.000	0.0	107	0.00
82 T	1,2,4-Trimethylbenzene	4.988	4.664	6.5	106	0.00
83 T	n-Decane	0.000	0.000	0.0	120	-0.01
84 T	Benzyl Chloride	2.767	3.863	-39.6#	119	0.00
85 T	1,3-Dichlorobenzene	2.890	2.510	13.1	95	0.00
86 T	1,4-Dichlorobenzene	2.884	2.541	11.9	98	0.00
87 T	sec-Butylbenzene	6.509	5.947	8.6	107	0.00
88 T	4-Isopropyltoluene (p-Cymen)	5.673	5.065	10.7	103	0.00
89 T	1,2,3-Trimethylbenzene	0.000	0.000	0.0	107	0.00
90 T	1,2-Dichlorobenzene	2.890	2.443	15.5	96	0.00
91 T	d-Limonene	1.671	1.848	-10.6	120	0.00
92 T	1,2-Dibromo-3-Chloropropane	1.086	0.980	9.8	91	0.00
93 T	n-Undecane	0.000	0.000	0.0	0#	-18.11#
94 T	1,2,4-Trichlorobenzene	2.217	2.109	4.9	93	0.00
95 T	Naphthalene	4.403	5.972	-35.6#	124	0.00
96 T	n-Dodecane	0.000	0.000	0.0	118	0.00
97 T	Hexachlorobutadiene	1.838	1.420	22.7	90	0.00
98 T	Cyclohexanone	0.000	0.000	0.0	0#	-15.27#
99 T	tert-Butylbenzene	4.746	4.207	11.4	102	0.00
100 T	n-Butylbenzene	5.197	4.952	4.7	109	0.00
101 T	1,1,1,2-Tetrachloroethane	1.309	1.166	10.9	98	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data File : I:\MS09\DATA\2023 03\21\03212330.D
 Acq On : 21 Mar 2023 22:07
 Sample : CCV2 R09032123_25ng
 Misc : S35-02212305

Vial: 2
 Operator: WA/SR
 Inst : MS09

DA 3/22/23

Quant Time: Mar 22 04:41:30 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.24	130	169799	12.500	ng	0.00
37) 1,4-Difluorobenzene (IS2)	9.29	114	766039	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	14.81	54	172844	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.00	65	370320	12.882	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	103.04%	
57) Toluene-d8 (SS2)	12.40	98	907463	13.817	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	110.56%	
73) Bromofluorobenzene (SS3)	16.79	174	281842	10.524	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	84.16%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.26	42	654206	28.965	ng	96
3) Dichlorodifluoromethan...	3.34	85	951408	24.268	ng	98
4) Chloromethane	3.48	50	734284	29.823	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	3.58	135	408963	22.273	ng	98
6) Vinyl Chloride	3.67	62	530502	26.880	ng	99
7) 1,3-Butadiene	3.78	54	380505	27.782	ng	96
8) Bromomethane	4.00	94	333189	26.568	ng	95
9) Chloroethane	4.14	64	297037	28.853	ng	100
10) Ethanol	4.32	45	1407869	87.374	ng	99
11) Acetonitrile	4.45	41	1001282	24.490	ng	99
12) Acrolein	4.53	56	553889	51.572	ng	99
13) Acetone	4.64	58	1562557	127.971	ng	# 83
14) Trichlorofluoromethane	4.74	101	858360	21.958	ng	98
15) 2-Propanol (Isopropanol)	4.87	45	2440352	51.191	ng	99
16) Acrylonitrile	5.01	53	1213388	52.474	ng	98
17) 1,1-Dichloroethene	5.25	96	399468	25.278	ng	97
18) 2-Methyl-2-Propanol (t...	5.35	59	2417766	58.085	ng	97
19) Methylene Chloride	5.36	84	419527	26.033	ng	97
20) 3-Chloro-1-propene (Al...	5.45	41	823542	27.092	ng	95
21) Trichlorotrifluoroethane	5.57	151	365279	20.655	ng	# 79
22) Carbon Disulfide	5.59	76	3095817	52.776	ng	100
23) trans-1,2-Dichloroethene	6.14	61	705315	26.795	ng	97
24) 1,1-Dichloroethane	6.33	63	839265	25.972	ng	100
25) Methyl tert-Butyl Ether	6.35	73	1376673	27.616	ng	100
26) Vinyl Acetate	6.45	86	194384	82.148	ng	# 92
27) 2-Butanone (MEK)	6.66	72	559416	57.478	ng	# 85
28) cis-1,2-Dichloroethene	7.08	61	663417	24.833	ng	97
29) Diisopropyl Ether	7.27	87	651127	48.259	ng	# 96
30) Ethyl Acetate	7.28	61	723359	96.671	ng	97
31) n-Hexane	7.28	57	720267	23.183	ng	97
32) Chloroform	7.37	83	813654	23.859	ng	97
34) Tetrahydrofuran (THF)	7.73	72	513130	52.645	ng	97
35) Ethyl tert-Butyl Ether	7.81	87	1006786	54.786	ng	96
36) 1,2-Dichloroethane	8.11	62	708544	23.905	ng	98
38) 1,1,1-Trichloroethane	8.38	97	753002	22.285	ng	98
39) Isopropyl Acetate	9.20	61	2407	No Calib		#
40) 1-Butanol	8.80	56	24561	No Calib		
41) Benzene	8.89	78	1626012	24.871	ng	100
42) Carbon Tetrachloride	9.05	117	653080	22.665	ng	100
43) Cyclohexane	9.20	84	1199511	49.320	ng	97
44) tert-Amyl Methyl Ether	9.57	73	2452309	55.183	ng	96
45) 1,2-Dichloropropane	9.84	63	452959	24.586	ng	97
46) Bromodichloromethane	10.06	83	665652	24.544	ng	97
47) Trichloroethene	10.13	130	429872	22.425	ng	99
48) 1,4-Dioxane	10.10	88	341978	26.710	ng	100
49) 2,2,4-Trimethylpentane...	10.21	57	1945653	24.336	ng	94
50) Methyl Methacrylate	10.38	100	320504	51.943	ng	# 82

Data File : I:\MS09\DATA\2023 03\21\03212330.D
 Acq On : 21 Mar 2023 22:07
 Sample : CCV2 R09032123_25ng
 Misc : S35-02212305

Vial: 2
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 22 04:41:30 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

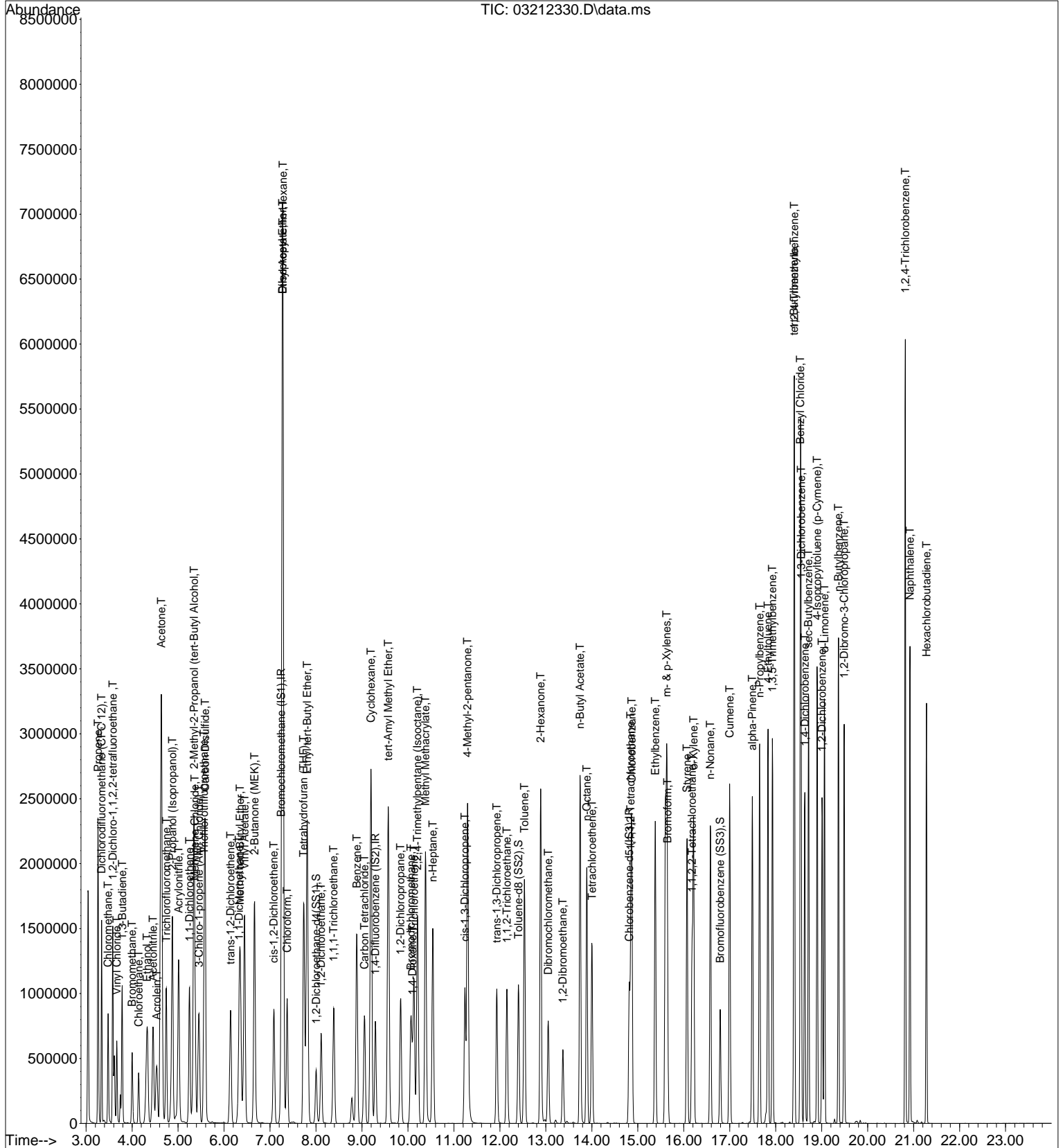
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.54	71	419122	25.734	ng	96
52) cis-1,3-Dichloropropene	11.24	75	744727	28.954	ng	100
53) 4-Methyl-2-pentanone	11.30	58	845691	52.814	ng	96
54) trans-1,3-Dichloropropene	11.93	75	710616	30.311	ng	100
55) 1,1,2-Trichloroethane	12.15	97	406864	23.896	ng	93
58) Toluene	12.53	91	1662482	23.775	ng	97
59) 2-Hexanone	12.89	43	2382357	54.112	ng	97
60) Dibromochloromethane	13.05	129	536184	25.031	ng	99
61) 1,2-Dibromoethane	13.37	107	482028	25.010	ng	97
62) n-Butyl Acetate	13.74	43	2597839	53.138	ng	98
63) n-Octane	13.89	57	401638	26.321	ng	96
64) Tetrachloroethene	14.01	166	471154	19.544	ng	100
65) Chlorobenzene	14.87	112	1102074	23.847	ng	99
66) Ethylbenzene	15.38	91	1963672	24.485	ng	100
67) m- & p-Xylenes	15.63	91	3202133	48.652	ng	99
68) Bromoform	15.65	173	453825	22.181	ng	99
69) Styrene	16.07	104	1196292	28.822	ng	99
70) o-Xylene	16.21	91	1590879	24.530	ng	99
71) n-Nonane	16.58	43	1075947	26.278	ng	98
72) 1,1,2,2-Tetrachloroethane	16.18	83	747713	27.816	ng	96
74) Cumene	17.00	105	1973235	24.692	ng	99
75) alpha-Pinene	17.49	93	1056653	31.362	ng	99
76) n-Propylbenzene	17.65	91	2399325	25.090	ng	100
77) 3-Ethyltoluene	17.00	105	1973235	No Calib		
78) 4-Ethyltoluene	17.83	105	1954237	25.855	ng	98
79) 1,3,5-Trimethylbenzene	17.93	105	1665492	24.525	ng	98
80) alpha-Methylstyrene	17.00	118	3689	No Calib	#	
81) 2-Ethyltoluene	17.00	105	1973235	No Calib		
82) 1,2,4-Trimethylbenzene	18.41	105	1692749	24.544	ng	99
83) n-Decane	17.00	58	16079	No Calib		
84) Benzyl Chloride	18.54	91	2831063	73.989	ng	98
85) 1,3-Dichlorobenzene	18.55	146	919623	23.015	ng	99
86) 1,4-Dichlorobenzene	18.63	146	931034	23.348	ng	100
87) sec-Butylbenzene	18.71	105	2179307	24.212	ng	98
88) 4-Isopropyltoluene (p-...	18.90	119	1856138	23.662	ng	99
89) 1,2,3-Trimethylbenzene	17.00	105	1973235	No Calib		
90) 1,2-Dichlorobenzene	19.01	146	903448	22.607	ng	99
91) d-Limonene	19.06	68	683566	29.588	ng	95
92) 1,2-Dibromo-3-Chloropr...	19.49	157	711220	47.348	ng	# 80
93) n-Undecane	0.00	58	0	N.D.		
94) 1,2,4-Trichlorobenzene	20.82	180	1523922	49.719	ng	99
95) Naphthalene	20.92	128	2270842	37.297	ng	100
96) n-Dodecane	19.06	58	5358	No Calib	#	
97) Hexachlorobutadiene	21.28	225	520493	20.478	ng	100
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	18.40	119	1541609	23.492	ng	99
100) n-Butylbenzene	19.37	91	1831679	25.487	ng	97
101) 1,1,1,2-Tetrachloroethane	14.85	131	427265	23.611	ng	100

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

Data File : I:\MS09\DATA\2023 03\21\03212330.D
Acq On : 21 Mar 2023 22:07
Sample : CCV2 R09032123_25ng
Misc : S35-02212305

Vial: 2
Operator: WA/SR
Inst : MS09

Quant Time: Mar 22 04:41:30 2023
Quant Method : I:\MS09\METHODS\R9022723.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Feb 28 08:30:18 2023
Response via : Initial Calibration
DataAcq Meth:TO15.M



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: New York State DEC
Client Project ID: Armonk PWS

ALS Project ID: P2301184

Internal Standard Area and RT Summary

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 6.0 L Silonite Canister(s)
Test Notes:

Lab File ID: 03212301.D
Date Analyzed: 3/21/23
Time Analyzed: 00:20

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
24 Hour Standard	166333	7.23	751591	9.29	172820	14.81
Upper Limit	232866	7.56	1052227	9.62	241948	15.14
Lower Limit	99800	6.90	450955	8.96	103692	14.48

Client Sample ID		IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)
		AREA #	RT #	AREA #
01	Method Blank	158951	7.20	714541
02	Lab Control Sample	161249	7.24	719002
03	Duplicate Lab Control Sample	162406	7.24	731549
04	Armonk-OA-031423	164085	7.20	743259
05	Building-1-SS1-031423	163416	7.20	732492
06	Building-1-SS2-031423	165507	7.20	740889
07	Building-2-IA-031423	168754	7.23	767233
08	Building-1-IA-031423	165594	7.20	744389
09	Building-2-IA-031423 (Lab Duplicate)	170401	7.23	767052
10	Building-2-SS1-031423	171852	7.20	778024
11	Building-2-SS2-031423	174448	7.20	781739
12	Building-3-IA-031423	166120	7.21	746963
13	Building-4-SS1-031423	165379	7.20	744989
14	Building-4-IA1-031423	163410	7.20	734287
15	Building-4-SS2-031423	162747	7.20	734962
16	Building-4-IA2-031423	169089	7.21	755829
17	Armonk-IA-Dup-031423	167765	7.21	746360
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: New York State DEC
Client Project ID: Armonk PWS

ALS Project ID: P2301184

Internal Standard Area and RT Summary

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister(s)
 Test Notes:

Lab File ID: 03212330.D
 Date Analyzed: 3/21/23
 Time Analyzed: 22:07

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
24 Hour Standard	169799	7.24	766039	9.29	172844	14.81
Upper Limit	237719	7.57	1072455	9.62	241982	15.14
Lower Limit	101879	6.91	459623	8.96	103706	14.48

Client Sample ID		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
01	Method Blank	158011	7.20	719654	9.26	159706	14.81
02	Lab Control Sample	163076	7.24	735219	9.29	164085	14.81
03	Duplicate Lab Control Sample	166502	7.24	751916	9.29	168614	14.81
04	Building-3-IA-031423 (Dilution)	174652	7.20	769684	9.26	167347	14.80
05	Armonk-IA-Dup-031423 (Dilution)	164463	7.20	735796	9.26	160539	14.81
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.

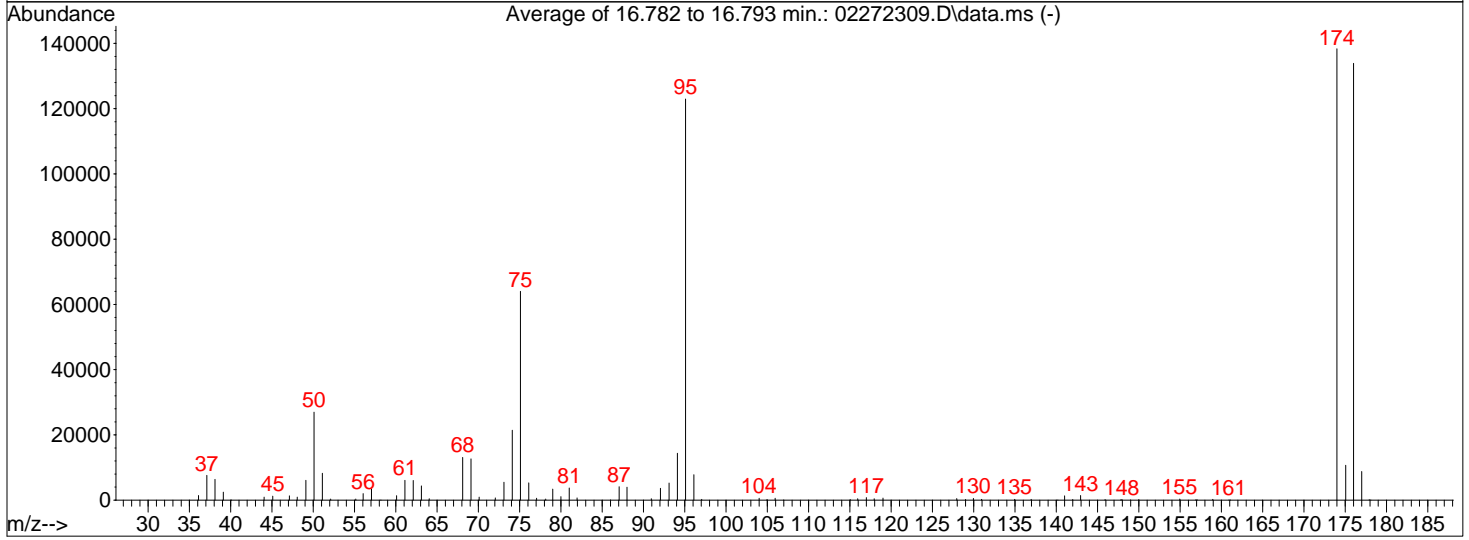
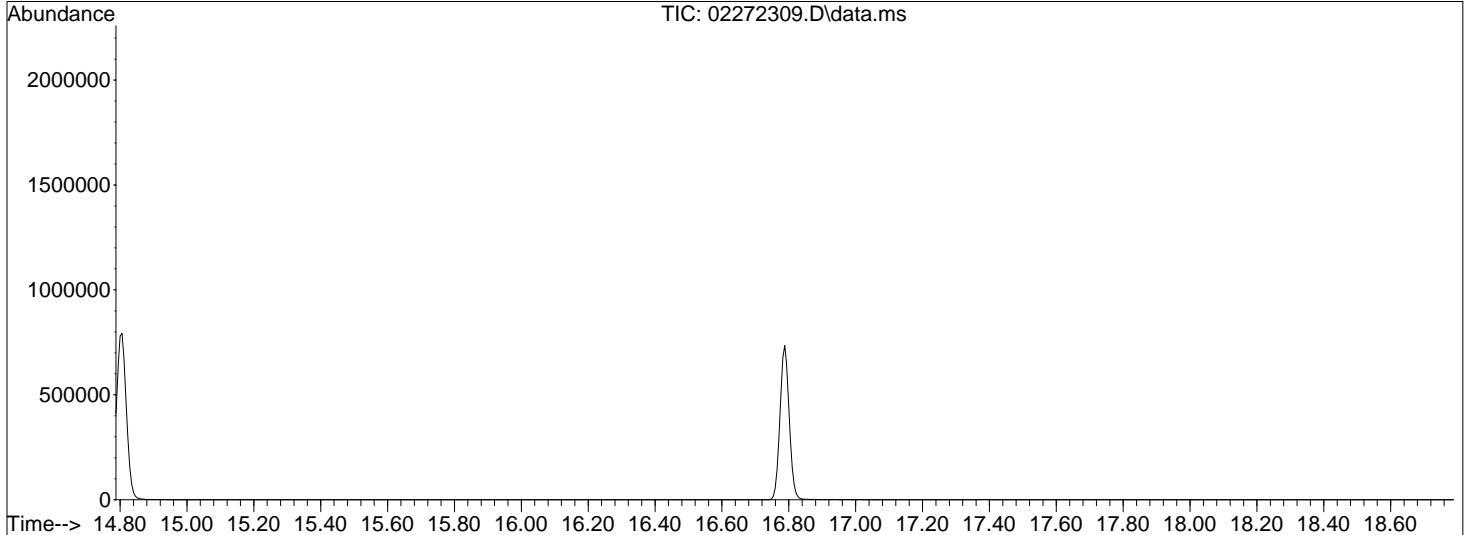
I = Internal standard not within the specified limits.

Data Path : I:\MS09\DATA\2023 02\27\
 Data File : 02272309.D
 Acq On : 27 Feb 2023 13:28
 Operator : SC
 Sample : 12.5ng TO-15 BFB STD
 Misc : S35-02212305
 ALS Vial : 2 Sample Multiplier: 1

U 2/27/23

Integration File: LSCINT.P

Method : I:\MS09\METHODS\R9022723.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Mon Feb 27 17:09:40 2023



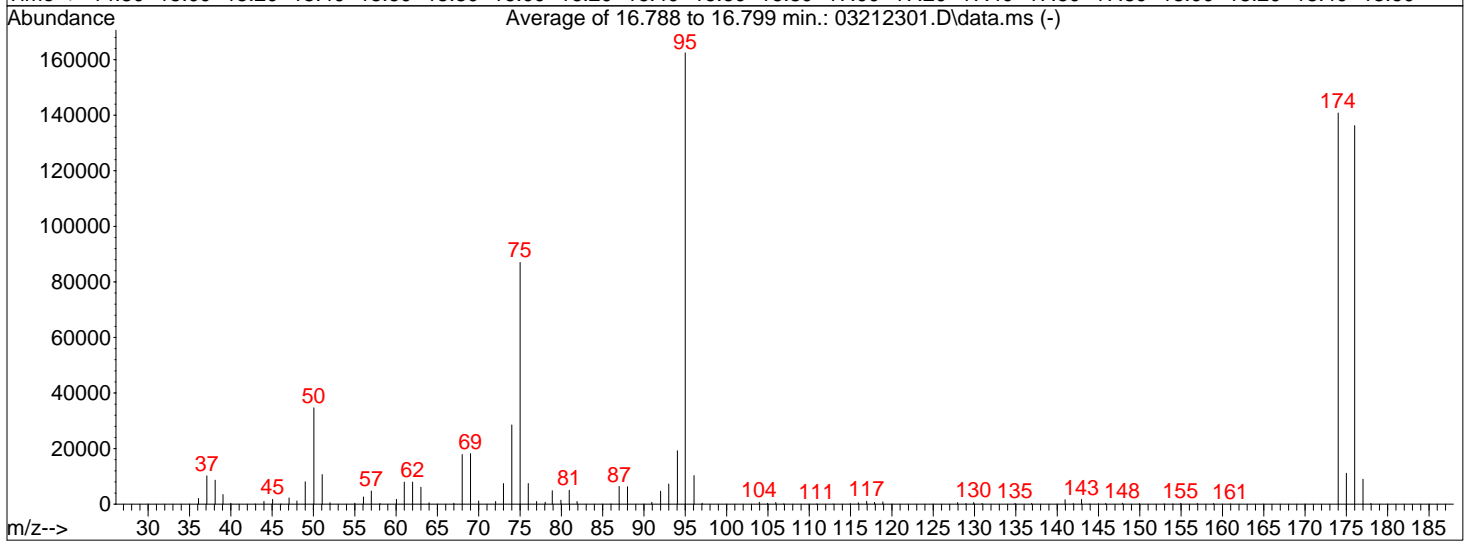
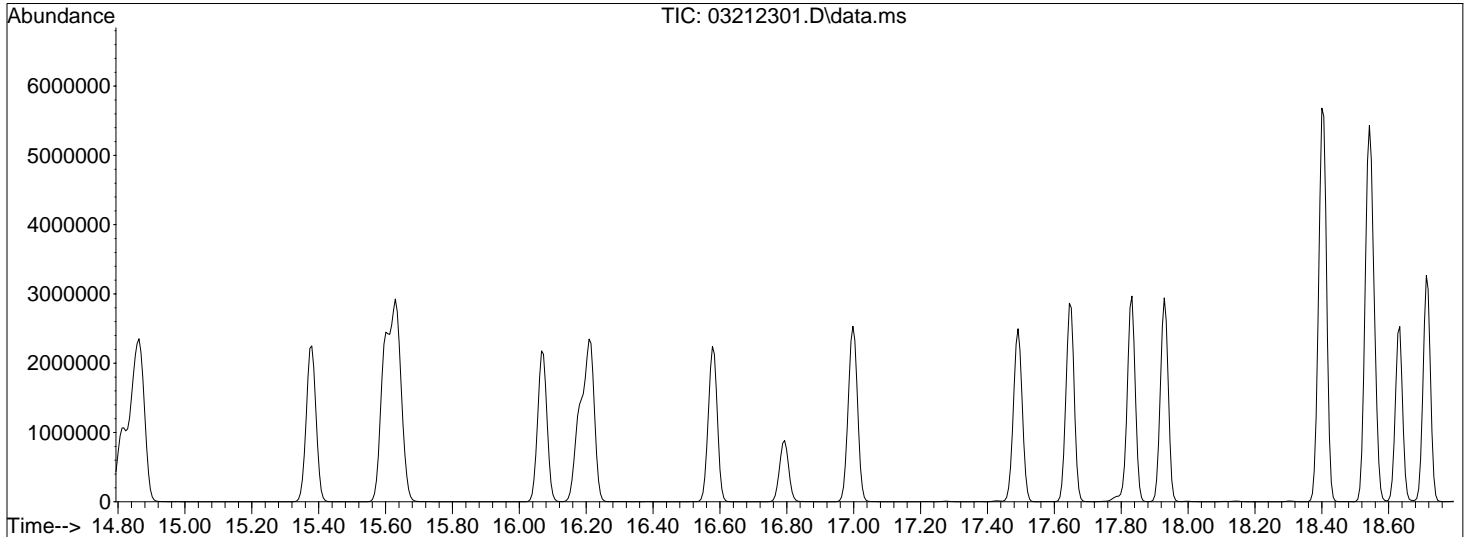
AutoFind: Scans 2448, 2449, 2450; Background Corrected with Scan 2440

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	21.9	26952	PASS
75	95	30	66	52.1	63995	PASS
95	95	100	100	100.0	122944	PASS
96	95	5	9	6.3	7791	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	112.5	138352	PASS
175	174	4	9	7.7	10691	PASS
176	174	93	101	96.8	133875	PASS
177	176	5	9	6.6	8780	PASS

Data Path : I:\MS09\DATA\2023 03\21\
 Data File : 03212301.D
 Acq On : 21 Mar 2023 00:20
 Operator : WA/SR
 Sample : CCV R09032123 25ng
 Misc : S35-02212305/S37-03162303 (4/15)
 ALS Vial : 2 Sample Multiplier: 1

Integration File: LSCINT.P

Method : I:\MS09\METHODS\R9022723.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Tue Feb 28 08:30:18 2023



AutoFind: Scans 2449, 2450, 2451; Background Corrected with Scan 2440

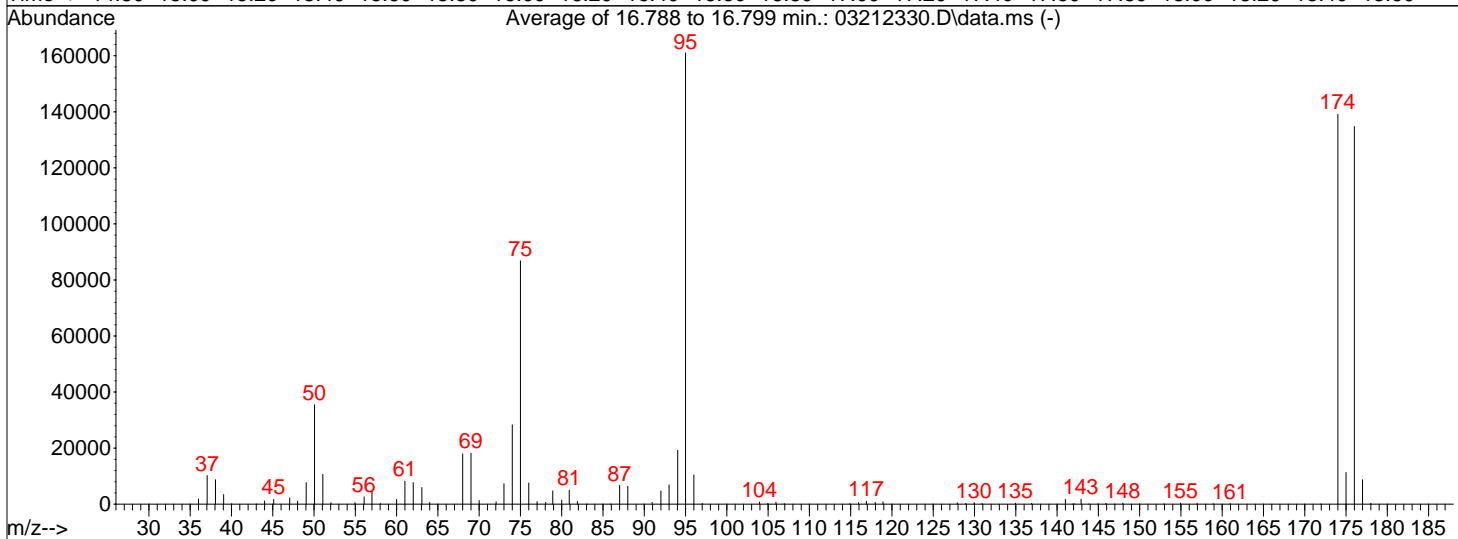
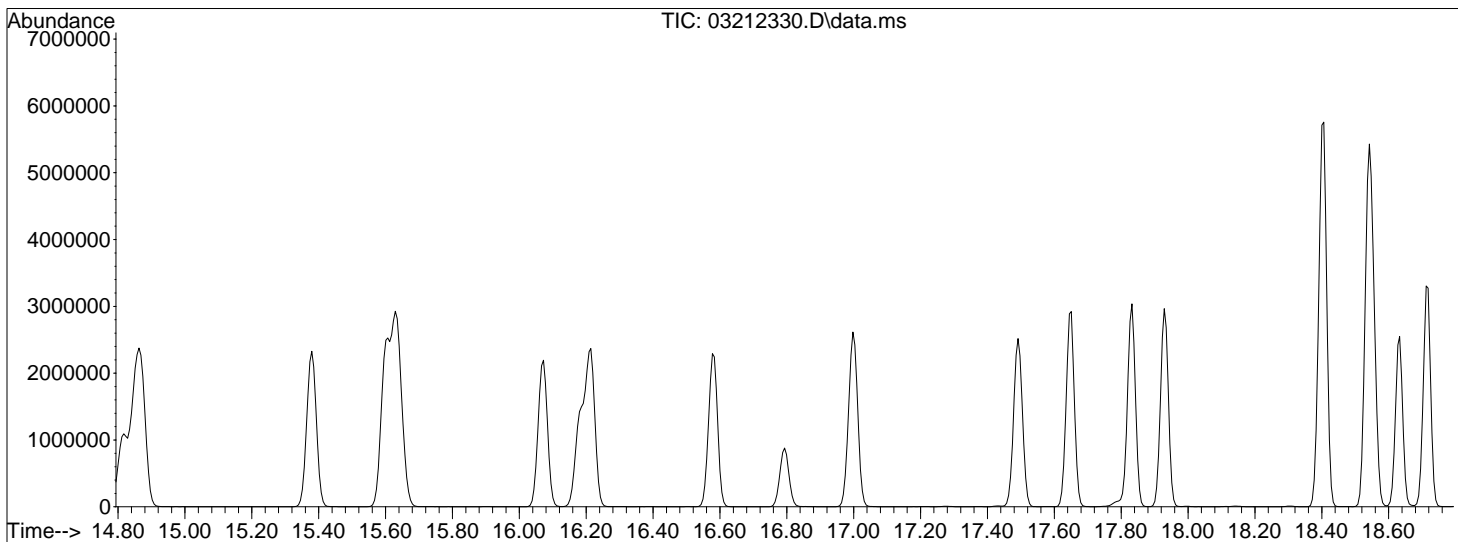
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	21.4	34685	PASS
75	95	30	66	53.6	87037	PASS
95	95	100	100	100.0	162453	PASS
96	95	5	9	6.3	10300	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	86.7	140821	PASS
175	174	4	9	7.9	11131	PASS
176	174	93	101	96.8	136280	PASS
177	176	5	9	6.6	8969	PASS

WA 3/21/23

Data Path : I:\MS09\DATA\2023 03\21\
 Data File : 03212330.D
 Acq On : 21 Mar 2023 22:07
 Operator : WA/SR
 Sample : CCV2 R09032123_25ng
 Misc : S35-02212305
 ALS Vial : 2 Sample Multiplier: 1

Integration File: LSCINT.P

Method : I:\MS09\METHODS\R9022723.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Tue Feb 28 08:30:18 2023



AutoFind: Scans 2449, 2450, 2451; Background Corrected with Scan 2441

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.0	35432	PASS
75	95	30	66	53.9	86813	PASS
95	95	100	100	100.0	161045	PASS
96	95	5	9	6.5	10467	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	86.4	139072	PASS
175	174	4	9	8.1	11315	PASS
176	174	93	101	96.9	134747	PASS
177	176	5	9	6.5	8713	PASS

WA 3/22/23

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: New York State DEC
Client Sample ID: Method Blank
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P230321-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	ND	0.53	ND	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.53	ND	0.11	
74-87-3	Chloromethane	ND	0.21	ND	0.10	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.52	ND	0.074	
75-01-4	Vinyl Chloride	ND	0.11	ND	0.043	
106-99-0	1,3-Butadiene	ND	0.21	ND	0.095	
74-83-9	Bromomethane	ND	0.21	ND	0.054	
75-00-3	Chloroethane	ND	0.21	ND	0.080	
64-17-5	Ethanol	ND	5.0	ND	2.7	
75-05-8	Acetonitrile	ND	1.0	ND	0.60	
107-02-8	Acrolein	ND	1.0	ND	0.44	
67-64-1	Acetone	ND	5.3	ND	2.2	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.52	ND	0.093	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.0	ND	0.42	
107-13-1	Acrylonitrile	ND	1.0	ND	0.46	
75-35-4	1,1-Dichloroethene	ND	0.11	ND	0.028	
75-09-2	Methylene Chloride	ND	0.53	ND	0.15	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.53	ND	0.17	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.54	ND	0.070	
75-15-0	Carbon Disulfide	ND	1.1	ND	0.34	
156-60-5	trans-1,2-Dichloroethene	ND	0.11	ND	0.028	
75-34-3	1,1-Dichloroethane	ND	0.11	ND	0.027	
1634-04-4	Methyl tert-Butyl Ether	ND	0.54	ND	0.15	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
78-93-3	2-Butanone (MEK)	ND	1.0	ND	0.35	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3

Client: New York State DEC
Client Sample ID: Method Blank
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P230321-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.11	ND	0.028	
141-78-6	Ethyl Acetate	ND	2.1	ND	0.58	
110-54-3	n-Hexane	ND	0.53	ND	0.15	
67-66-3	Chloroform	ND	0.11	ND	0.023	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	ND	0.17	
107-06-2	1,2-Dichloroethane	ND	0.11	ND	0.027	
71-55-6	1,1,1-Trichloroethane	ND	0.11	ND	0.020	
71-43-2	Benzene	ND	0.11	ND	0.034	
56-23-5	Carbon Tetrachloride	ND	0.11	ND	0.017	
110-82-7	Cyclohexane	ND	1.1	ND	0.31	
78-87-5	1,2-Dichloropropane	ND	0.11	ND	0.024	
75-27-4	Bromodichloromethane	ND	0.11	ND	0.016	
79-01-6	Trichloroethene	ND	0.11	ND	0.020	
123-91-1	1,4-Dioxane	ND	0.53	ND	0.15	
80-62-6	Methyl Methacrylate	ND	1.1	ND	0.27	
142-82-5	n-Heptane	ND	0.53	ND	0.13	
10061-01-5	cis-1,3-Dichloropropene	ND	0.54	ND	0.12	
108-10-1	4-Methyl-2-pentanone	ND	1.1	ND	0.27	
10061-02-6	trans-1,3-Dichloropropene	ND	0.51	ND	0.11	
79-00-5	1,1,2-Trichloroethane	ND	0.11	ND	0.020	
108-88-3	Toluene	ND	0.53	ND	0.14	
591-78-6	2-Hexanone	ND	1.1	ND	0.27	
124-48-1	Dibromochloromethane	ND	0.11	ND	0.013	
106-93-4	1,2-Dibromoethane	ND	0.11	ND	0.014	
123-86-4	n-Butyl Acetate	ND	1.0	ND	0.21	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3 of 3

Client: New York State DEC
Client Sample ID: Method Blank
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P230321-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.54	ND	0.12	
127-18-4	Tetrachloroethene	ND	0.11	ND	0.016	
108-90-7	Chlorobenzene	ND	0.53	ND	0.12	
100-41-4	Ethylbenzene	ND	0.53	ND	0.12	
179601-23-1	m,p-Xylenes	ND	1.1	ND	0.25	
75-25-2	Bromoform	ND	0.54	ND	0.052	
100-42-5	Styrene	ND	0.53	ND	0.12	
95-47-6	o-Xylene	ND	0.53	ND	0.12	
111-84-2	n-Nonane	ND	0.53	ND	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.11	ND	0.016	
98-82-8	Cumene	ND	0.54	ND	0.11	
80-56-8	alpha-Pinene	ND	1.1	ND	0.20	
103-65-1	n-Propylbenzene	ND	0.54	ND	0.11	
622-96-8	4-Ethyltoluene	ND	0.55	ND	0.11	
108-67-8	1,3,5-Trimethylbenzene	ND	0.53	ND	0.11	
95-63-6	1,2,4-Trimethylbenzene	ND	0.53	ND	0.11	
100-44-7	Benzyl Chloride	ND	2.1	ND	0.41	
541-73-1	1,3-Dichlorobenzene	ND	0.53	ND	0.088	
106-46-7	1,4-Dichlorobenzene	ND	0.53	ND	0.088	
95-50-1	1,2-Dichlorobenzene	ND	0.54	ND	0.090	
5989-27-5	d-Limonene	ND	1.1	ND	0.20	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	ND	0.11	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	ND	0.15	
91-20-3	Naphthalene	ND	0.55	ND	0.10	
87-68-3	Hexachlorobutadiene	ND	0.53	ND	0.050	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Data File : I:\MS09\DATA\2023 03\21\03212305.D
 Acq On : 21 Mar 2023 2:28
 Sample : MB R09032123_1000mL
 Misc : S35-02212305

Vial: 2
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 21 08:27:42 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

WA 3/21/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	7.20	130	158951	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	9.26	114	714541	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.81	54	158859	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.96	65	341570	12.693	ng	-0.04
Spiked Amount	12.500	Range 70 - 130	Recovery	=	101.52%	
57) Toluene-d8 (SS2)	12.39	98	841087	13.934	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	111.44%	
73) Bromofluorobenzene (SS3)	16.79	174	256667	10.428	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	83.44%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.31	42	1181	0.056	ng	98
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	1609	0.107	ng	72
11) Acetonitrile	4.49	41	189	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) Acetone	4.64	58	4324	0.378	ng	# 80
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) 2-Propanol (Isopropanol)	4.90	45	2588	0.058	ng	93
16) Acrylonitrile	5.03	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.		
19) Methylene Chloride	5.34	84	178	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	767	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	6.29	63	105	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	23887	No Calib		#
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	8.87	78	820	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	9.26	84	572	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\21\03212305.D
 Acq On : 21 Mar 2023 2:28
 Sample : MB R09032123_1000mL
 Misc : S35-02212305

Vial: 2
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 21 08:27:42 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

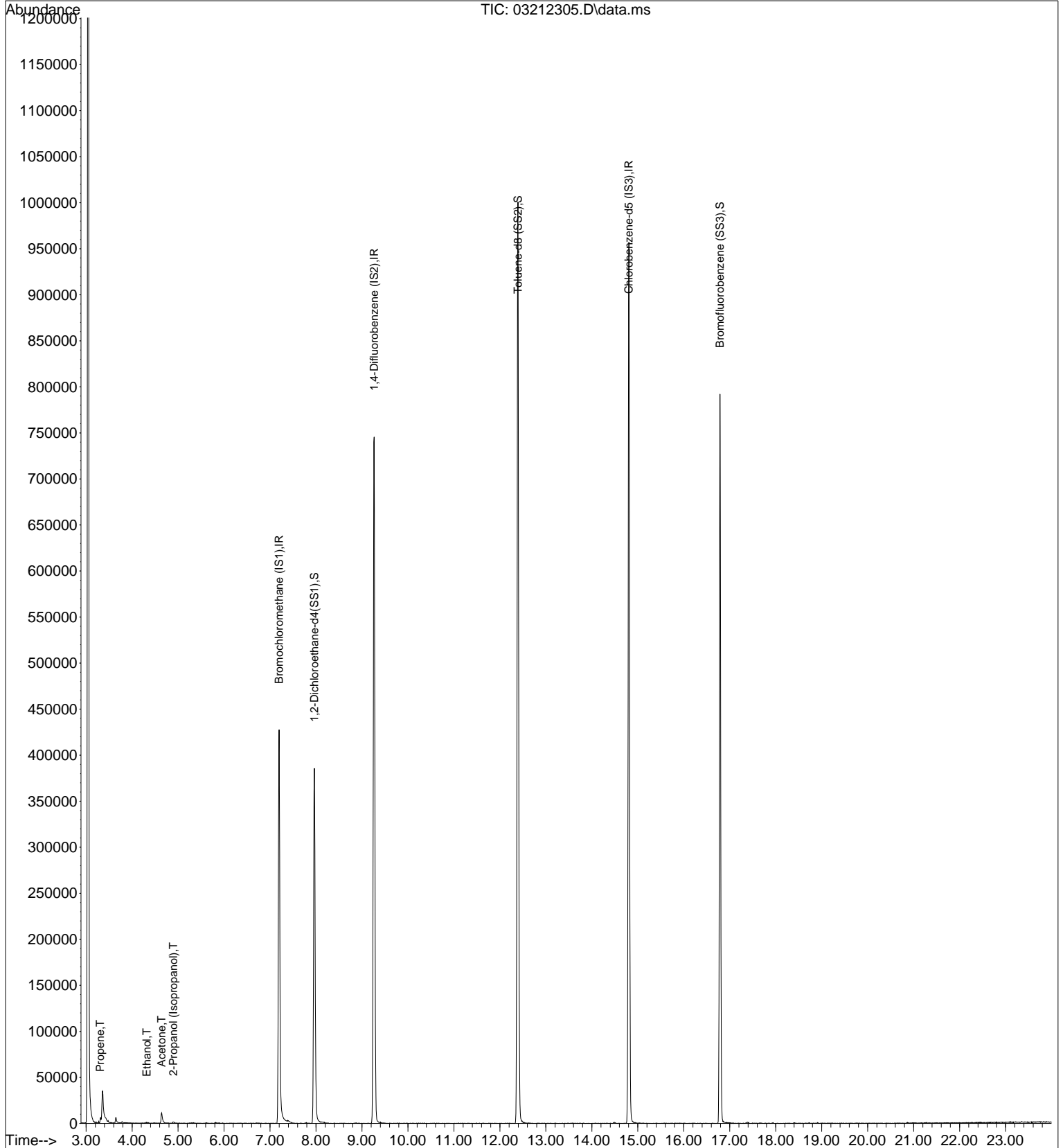
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.53	91	134	N.D.		
59) 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	15.63	91	114	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	223	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	17.67	91	680	N.D.		
77) 3-Ethyltoluene	17.00	105	223	No Calib	#	
78) 4-Ethyltoluene	17.85	105	453	N.D.		
79) 1,3,5-Trimethylbenzene	17.95	105	438	N.D.		
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.00	105	223	No Calib	#	
82) 1,2,4-Trimethylbenzene	18.42	105	361	N.D.		
83) n-Decane	0.00	58	0	N.D.		
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	18.64	146	121	N.D.		
86) 1,4-Dichlorobenzene	18.64	146	121	N.D.		
87) sec-Butylbenzene	18.72	105	625	N.D.		
88) 4-Isopropyltoluene (p-...	18.91	119	625	N.D.		
89) 1,2,3-Trimethylbenzene	17.00	105	223	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	20.86	180	784	N.D.		
95) Naphthalene	21.00	128	804	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	21.28	225	237	N.D.		
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	18.41	119	580	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\21\03212305.D
 Acq On : 21 Mar 2023 2:28
 Sample : MB R09032123_1000mL
 Misc : S35-02212305

Vial: 2
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 21 08:27:42 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: New York State DEC
Client Sample ID: Method Blank
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P230321-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	ND	0.53	ND	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.53	ND	0.11	
74-87-3	Chloromethane	ND	0.21	ND	0.10	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.52	ND	0.074	
75-01-4	Vinyl Chloride	ND	0.11	ND	0.043	
106-99-0	1,3-Butadiene	ND	0.21	ND	0.095	
74-83-9	Bromomethane	ND	0.21	ND	0.054	
75-00-3	Chloroethane	ND	0.21	ND	0.080	
64-17-5	Ethanol	ND	5.0	ND	2.7	
75-05-8	Acetonitrile	ND	1.0	ND	0.60	
107-02-8	Acrolein	ND	1.0	ND	0.44	
67-64-1	Acetone	ND	5.3	ND	2.2	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.52	ND	0.093	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.0	ND	0.42	
107-13-1	Acrylonitrile	ND	1.0	ND	0.46	
75-35-4	1,1-Dichloroethene	ND	0.11	ND	0.028	
75-09-2	Methylene Chloride	ND	0.53	ND	0.15	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.53	ND	0.17	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.54	ND	0.070	
75-15-0	Carbon Disulfide	ND	1.1	ND	0.34	
156-60-5	trans-1,2-Dichloroethene	ND	0.11	ND	0.028	
75-34-3	1,1-Dichloroethane	ND	0.11	ND	0.027	
1634-04-4	Methyl tert-Butyl Ether	ND	0.54	ND	0.15	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
78-93-3	2-Butanone (MEK)	ND	1.0	ND	0.35	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3

Client: New York State DEC
Client Sample ID: Method Blank
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P230321-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.11	ND	0.028	
141-78-6	Ethyl Acetate	ND	2.1	ND	0.58	
110-54-3	n-Hexane	ND	0.53	ND	0.15	
67-66-3	Chloroform	ND	0.11	ND	0.023	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	ND	0.17	
107-06-2	1,2-Dichloroethane	ND	0.11	ND	0.027	
71-55-6	1,1,1-Trichloroethane	ND	0.11	ND	0.020	
71-43-2	Benzene	ND	0.11	ND	0.034	
56-23-5	Carbon Tetrachloride	ND	0.11	ND	0.017	
110-82-7	Cyclohexane	ND	1.1	ND	0.31	
78-87-5	1,2-Dichloropropane	ND	0.11	ND	0.024	
75-27-4	Bromodichloromethane	ND	0.11	ND	0.016	
79-01-6	Trichloroethene	ND	0.11	ND	0.020	
123-91-1	1,4-Dioxane	ND	0.53	ND	0.15	
80-62-6	Methyl Methacrylate	ND	1.1	ND	0.27	
142-82-5	n-Heptane	ND	0.53	ND	0.13	
10061-01-5	cis-1,3-Dichloropropene	ND	0.54	ND	0.12	
108-10-1	4-Methyl-2-pentanone	ND	1.1	ND	0.27	
10061-02-6	trans-1,3-Dichloropropene	ND	0.51	ND	0.11	
79-00-5	1,1,2-Trichloroethane	ND	0.11	ND	0.020	
108-88-3	Toluene	ND	0.53	ND	0.14	
591-78-6	2-Hexanone	ND	1.1	ND	0.27	
124-48-1	Dibromochloromethane	ND	0.11	ND	0.013	
106-93-4	1,2-Dibromoethane	ND	0.11	ND	0.014	
123-86-4	n-Butyl Acetate	ND	1.0	ND	0.21	

ND = Compound was analyzed for, but not detected above the laboratory reporting 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 3 of 3

Client: New York State DEC
Client Sample ID: Method Blank
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P230321-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.54	ND	0.12	
127-18-4	Tetrachloroethene	ND	0.11	ND	0.016	
108-90-7	Chlorobenzene	ND	0.53	ND	0.12	
100-41-4	Ethylbenzene	ND	0.53	ND	0.12	
179601-23-1	m,p-Xylenes	ND	1.1	ND	0.25	
75-25-2	Bromoform	ND	0.54	ND	0.052	
100-42-5	Styrene	ND	0.53	ND	0.12	
95-47-6	o-Xylene	ND	0.53	ND	0.12	
111-84-2	n-Nonane	ND	0.53	ND	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.11	ND	0.016	
98-82-8	Cumene	ND	0.54	ND	0.11	
80-56-8	alpha-Pinene	ND	1.1	ND	0.20	
103-65-1	n-Propylbenzene	ND	0.54	ND	0.11	
622-96-8	4-Ethyltoluene	ND	0.55	ND	0.11	
108-67-8	1,3,5-Trimethylbenzene	ND	0.53	ND	0.11	
95-63-6	1,2,4-Trimethylbenzene	ND	0.53	ND	0.11	
100-44-7	Benzyl Chloride	ND	2.1	ND	0.41	
541-73-1	1,3-Dichlorobenzene	ND	0.53	ND	0.088	
106-46-7	1,4-Dichlorobenzene	ND	0.53	ND	0.088	
95-50-1	1,2-Dichlorobenzene	ND	0.54	ND	0.090	
5989-27-5	d-Limonene	ND	1.1	ND	0.20	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	ND	0.11	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	ND	0.15	
91-20-3	Naphthalene	ND	0.55	ND	0.10	
87-68-3	Hexachlorobutadiene	ND	0.53	ND	0.050	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Data File : I:\MS09\DATA\2023 03\21\03212333.D
 Acq On : 21 Mar 2023 23:43
 Sample : MB2 R09032123_1000mL
 Misc : S35-02212305

Vial: 2
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 22 08:57:03 2023

107A 3/22/23

Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	7.20	130	158011	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.26	114	719654	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.81	54	159706	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.97	65	341277	12.758	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery	=	102.08%	
57) Toluene-d8 (SS2)	12.39	98	846522	13.950	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	111.60%	
73) Bromofluorobenzene (SS3)	16.79	174	251236	10.153	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	81.20%	

Target Compounds

						Qvalue
2) Propene	3.32	42	1089	0.052	ng	87
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	1516	0.101	ng	78
11) Acetonitrile	4.49	41	52	N.D.		
12) Acrolein	4.56	56	51	N.D.		
13) Acetone	4.65	58	3675	0.323	ng	# 84
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) 2-Propanol (Isopropanol)	4.91	45	1896	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	0.00	84	0	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	5.62	76	649	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	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	8.87	78	756	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	9.26	84	473	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\21\03212333.D
 Acq On : 21 Mar 2023 23:43
 Sample : MB2 R09032123_1000mL
 Misc : S35-02212305

Vial: 2
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 22 08:57:03 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

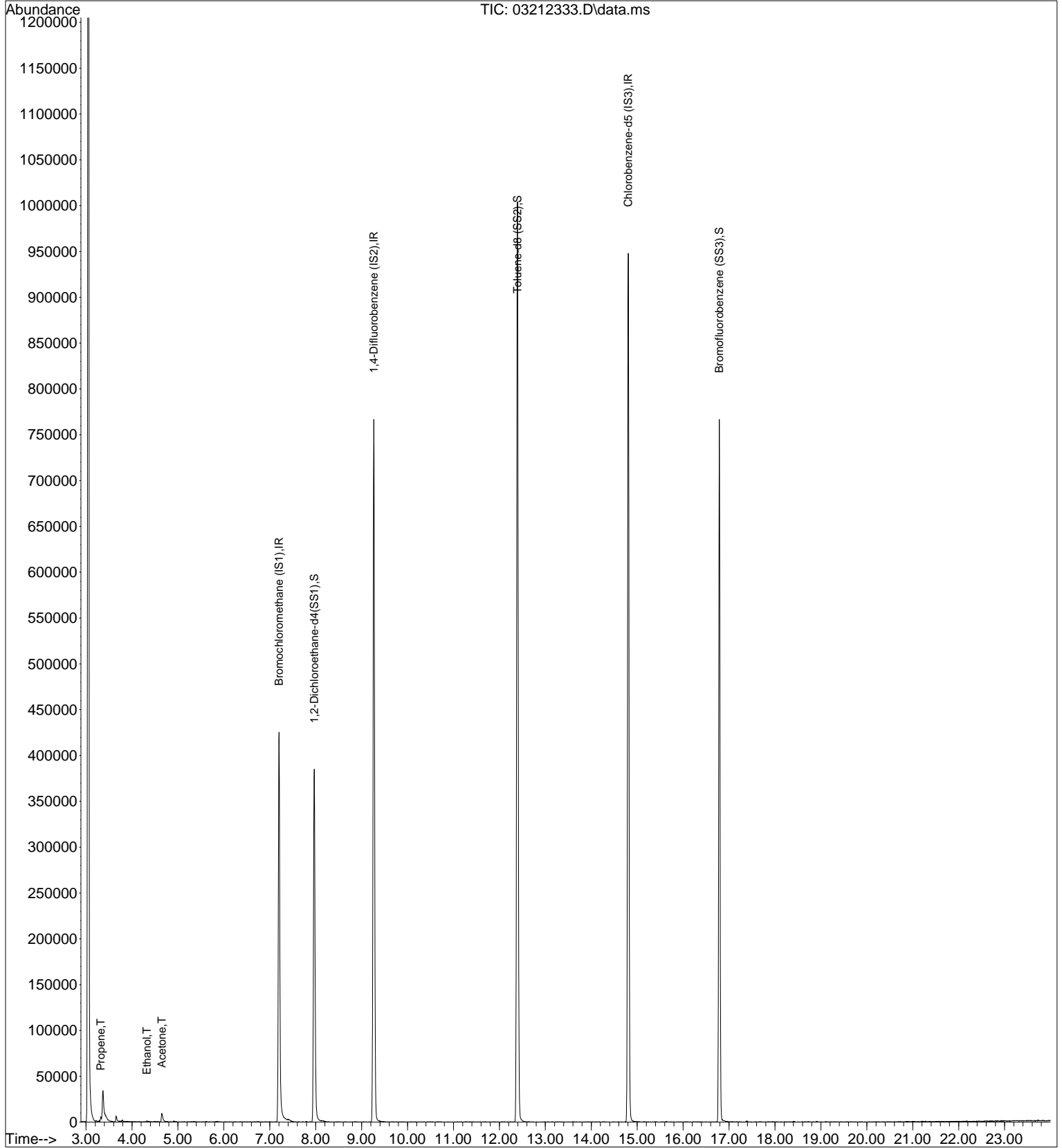
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	0.00	91	0	N.D.		
59) 2-Hexanone	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	15.39	91	184	N.D.		
67) m- & p-Xylenes	15.63	91	238	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	17.66	91	159	N.D.		
77) 3-Ethyltoluene	0.00	105	0	N.D.		
78) 4-Ethyltoluene	17.84	105	198	N.D.		
79) 1,3,5-Trimethylbenzene	17.95	105	314	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	18.42	105	318	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	18.65	146	128	N.D.		
87) sec-Butylbenzene	18.72	105	652	N.D.		
88) 4-Isopropyltoluene (p-...	18.91	119	733	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	20.87	180	358	N.D.		
95) Naphthalene	0.00	128	0	N.D.		
96) n-Dodecane	0.00	58	0	N.D.		
97) Hexachlorobutadiene	21.28	225	160	N.D.		
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	18.39	119	537	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\21\03212333.D
Acq On : 21 Mar 2023 23:43
Sample : MB2 R09032123_1000mL
Misc : S35-02212305

Vial: 2
Operator: WA/SR
Inst : MS09

Quant Time: Mar 22 08:57:03 2023
Quant Method : I:\MS09\METHODS\R9022723.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Feb 28 08:30:18 2023
Response via : Initial Calibration
DataAcq Meth:TO15.M



ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: New York State DEC
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P230321-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
115-07-1	Propene	212	259	250	122	118	56-128	3	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	212	217	212	102	100	71-112	2	25	
74-87-3	Chloromethane	210	267	261	127	124	53-126	2	25	L
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	214	196	198	92	93	62-121	1	25	
75-01-4	Vinyl Chloride	210	230	254	110	121	63-123	10	25	
106-99-0	1,3-Butadiene	210	236	243	112	116	63-135	4	25	
74-83-9	Bromomethane	210	235	235	112	112	71-112	0	25	
75-00-3	Chloroethane	212	257	256	121	121	66-117	0	25	L
64-17-5	Ethanol	1,100	1130	1130	103	103	57-117	0	25	
75-05-8	Acetonitrile	214	217	216	101	101	59-131	0	25	
107-02-8	Acrolein	440	505	506	115	115	71-123	0	25	
67-64-1	Acetone	1,060	1110	1110	105	105	60-117	0	25	
75-69-4	Trichlorofluoromethane (CFC 11)	210	196	194	93	92	71-114	1	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	414	460	463	111	112	61-124	0.9	25	
107-13-1	Acrylonitrile	418	461	458	110	110	65-130	0	25	
75-35-4	1,1-Dichloroethene	204	219	219	107	107	74-114	0	25	
75-09-2	Methylene Chloride	204	229	228	112	112	75-112	0	25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	212	220	224	104	106	57-127	2	25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	210	181	180	86	86	73-114	0	25	
75-15-0	Carbon Disulfide	430	462	459	107	107	70-113	0	25	
156-60-5	trans-1,2-Dichloroethene	216	234	234	108	108	76-119	0	25	
75-34-3	1,1-Dichloroethane	216	228	228	106	106	70-114	0	25	
1634-04-4	Methyl tert-Butyl Ether	216	244	244	113	113	72-118	0	25	
108-05-4	Vinyl Acetate	1,100	1580	1590	144	145	56-137	0.7	25	L
78-93-3	2-Butanone (MEK)	414	497	498	120	120	74-121	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. L = Laboratory control sample recovery outside the specified limits, results may be biased high.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: New York State DEC
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P230321-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
156-59-2	cis-1,2-Dichloroethene	214	216	216	101	101	73-117	0	25	
141-78-6	Ethyl Acetate	398	364	363	91	91	59-161	0	25	
110-54-3	n-Hexane	212	205	205	97	97	55-130	0	25	
67-66-3	Chloroform	216	211	209	98	97	71-114	1	25	
109-99-9	Tetrahydrofuran (THF)	402	448	448	111	111	73-114	0	25	
107-06-2	1,2-Dichloroethane	204	214	212	105	104	71-119	1	25	
71-55-6	1,1,1-Trichloroethane	210	202	198	96	94	73-119	2	25	
71-43-2	Benzene	204	222	220	109	108	72-113	0.9	25	
56-23-5	Carbon Tetrachloride	210	218	215	104	102	67-123	2	25	
110-82-7	Cyclohexane	426	439	435	103	102	70-119	1	25	
78-87-5	1,2-Dichloropropane	214	219	217	102	101	70-118	1	25	
75-27-4	Bromodichloromethane	216	223	220	103	102	74-119	1	25	
79-01-6	Trichloroethene	212	204	201	96	95	74-115	1	25	
123-91-1	1,4-Dioxane	212	242	239	114	113	77-124	0.9	25	
80-62-6	Methyl Methacrylate	428	466	459	109	107	78-126	2	25	
142-82-5	n-Heptane	214	230	228	107	107	70-119	0	25	
10061-01-5	cis-1,3-Dichloropropene	212	282	279	133	132	81-126	0.8	25	L
108-10-1	4-Methyl-2-pentanone	426	469	466	110	109	73-129	0.9	25	
10061-02-6	trans-1,3-Dichloropropene	196	257	257	131	131	80-127	0	25	L
79-00-5	1,1,2-Trichloroethane	216	216	214	100	99	78-117	1	25	
108-88-3	Toluene	214	214	211	100	99	70-118	1	25	
591-78-6	2-Hexanone	426	482	478	113	112	74-132	0.9	25	
124-48-1	Dibromochloromethane	214	224	221	105	103	69-137	2	25	
106-93-4	1,2-Dibromoethane	204	223	219	109	107	76-128	2	25	
123-86-4	n-Butyl Acetate	424	481	479	113	113	75-134	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. L = Laboratory control sample recovery outside the specified limits, results may be biased high.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: New York State DEC
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P230321-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
111-65-9	n-Octane	212	230	228	108	108	68-120	0	25	
127-18-4	Tetrachloroethene	214	179	176	84	82	63-130	2	25	
108-90-7	Chlorobenzene	216	216	214	100	99	70-118	1	25	
100-41-4	Ethylbenzene	218	221	219	101	100	71-123	1	25	
179601-23-1	m,p-Xylenes	430	439	434	102	101	67-127	1	25	
75-25-2	Bromoform	218	209	205	96	94	65-149	2	25	
100-42-5	Styrene	214	258	255	121	119	76-132	2	25	
95-47-6	o-Xylene	216	221	218	102	101	69-124	1	25	
111-84-2	n-Nonane	214	230	228	107	107	64-127	0	25	
79-34-5	1,1,2,2-Tetrachloroethane	216	251	249	116	115	69-128	0.9	25	
98-82-8	Cumene	212	219	216	103	102	69-125	1	25	
80-56-8	alpha-Pinene	216	273	269	126	125	68-129	0.8	25	
103-65-1	n-Propylbenzene	212	221	218	104	103	70-127	1	25	
622-96-8	4-Ethyltoluene	218	230	226	106	104	69-127	2	25	
108-67-8	1,3,5-Trimethylbenzene	216	222	218	103	101	66-129	2	25	
95-63-6	1,2,4-Trimethylbenzene	212	222	218	105	103	63-142	2	25	
100-44-7	Benzyl Chloride	428	677	668	158	156	73-145	1	25	L
541-73-1	1,3-Dichlorobenzene	214	210	208	98	97	67-136	1	25	
106-46-7	1,4-Dichlorobenzene	214	211	208	99	97	63-134	2	25	
95-50-1	1,2-Dichlorobenzene	212	204	201	96	95	64-139	1	25	
5989-27-5	d-Limonene	208	250	247	120	119	63-137	0.8	25	
96-12-8	1,2-Dibromo-3-chloropropane	416	421	417	101	100	72-145	1	25	
120-82-1	1,2,4-Trichlorobenzene	440	431	432	98	98	62-154	0	25	
91-20-3	Naphthalene	220	313	317	142	144	62-156	1	25	
87-68-3	Hexachlorobutadiene	218	177	176	81	81	55-142	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. L = Laboratory control sample recovery outside the specified limits, results may be biased high.

Data File : I:\MS09\DATA\2023 03\21\03212306.D
 Acq On : 21 Mar 2023 3:00
 Sample : LCS R09032123 25ng
 Misc : S35-02212305/S37-03162303 (4/15)

Vial: 2
 Operator: WA/SR
 Inst : MS09

3/22/23

Quant Time: Mar 21 07:46:53 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	7.24	130	161249	12.500	ng	0.00
37) 1,4-Difluorobenzene (IS2)	9.29	114	719002	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	14.81	54	161502	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.00	65	347417	12.726	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	101.84%
57) Toluene-d8 (SS2)	12.40	98	844558	13.762	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	110.08%
73) Bromofluorobenzene (SS3)	16.79	174	268497	10.730	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	85.84%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.26	42	694951	32.400	ng	96
3) Dichlorodifluoromethan...	3.34	85	1007964	27.074	ng	99
4) Chloromethane	3.48	50	780888	33.397	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	3.58	135	426309	24.448	ng	98
6) Vinyl Chloride	3.67	62	538171	28.714	ng	99
7) 1,3-Butadiene	3.78	54	383691	29.500	ng	96
8) Bromomethane	4.00	94	350061	29.393	ng	95
9) Chloroethane	4.14	64	314265	32.145	ng	100
10) Ethanol	4.34	45	2152385	140.663	ng	100
11) Acetonitrile	4.46	41	1055540	27.186	ng	99
12) Acrolein	4.53	56	643207	63.064	ng	99
13) Acetone	4.64	58	1614425	139.229	ng	# 85
14) Trichlorofluoromethane	4.74	101	907685	24.451	ng	97
15) 2-Propanol (Isopropanol)	4.88	45	2603084	57.500	ng	99
16) Acrylonitrile	5.01	53	1266491	57.674	ng	98
17) 1,1-Dichloroethene	5.24	96	411244	27.403	ng	97
18) 2-Methyl-2-Propanol (t...	5.35	59	2494605	63.109	ng	98
19) Methylene Chloride	5.37	84	437582	28.593	ng	96
20) 3-Chloro-1-propene (Al...	5.45	41	793877	27.501	ng	97
21) Trichlorotrifluoroethane	5.56	151	380509	22.657	ng	# 80
22) Carbon Disulfide	5.59	76	3219449	57.794	ng	99
23) trans-1,2-Dichloroethene	6.14	61	730589	29.227	ng	97
24) 1,1-Dichloroethane	6.33	63	872730	28.440	ng	100
25) Methyl tert-Butyl Ether	6.36	73	1441858	30.458	ng	100
26) Vinyl Acetate	6.45	86	444097	197.631	ng	# 84
27) 2-Butanone (MEK)	6.66	72	573988	62.103	ng	# 85
28) cis-1,2-Dichloroethene	7.08	61	685387	27.016	ng	97
29) Diisopropyl Ether	7.27	87	675846	52.747	ng	# 25
30) Ethyl Acetate	7.28	61	323149	45.476	ng	95
31) n-Hexane	7.28	57	757838	25.686	ng	97
32) Chloroform	7.37	83	852389	26.320	ng	97
34) Tetrahydrofuran (THF)	7.74	72	518147	55.978	ng	96
35) Ethyl tert-Butyl Ether	7.81	87	1048044	60.055	ng	96
36) 1,2-Dichloroethane	8.11	62	753629	26.774	ng	98
38) 1,1,1-Trichloroethane	8.39	97	799960	25.223	ng	98
39) Isopropyl Acetate	9.20	61	2532	No Calib	#	
40) 1-Butanol	8.82	56	3437	No Calib	#	
41) Benzene	8.89	78	1703408	27.759	ng	100
42) Carbon Tetrachloride	9.05	117	738314	27.300	ng	100
43) Cyclohexane	9.20	84	1252800	54.881	ng	96
44) tert-Amyl Methyl Ether	9.57	73	2539575	60.885	ng	96
45) 1,2-Dichloropropane	9.84	63	472515	27.326	ng	97
46) Bromodichloromethane	10.06	83	707988	27.813	ng	97
47) Trichloroethene	10.13	130	457888	25.449	ng	99
48) 1,4-Dioxane	10.09	88	363777	30.272	ng	100
49) 2,2,4-Trimethylpentane...	10.21	57	1954578	26.047	ng	94
50) Methyl Methacrylate	10.38	100	337249	58.232	ng	# 85

Data File : I:\MS09\DATA\2023 03\21\03212306.D
 Acq On : 21 Mar 2023 3:00
 Sample : LCS R09032123 25ng
 Misc : S35-02212305/S37-03162303 (4/15)

Vial: 2
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 21 07:46:53 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

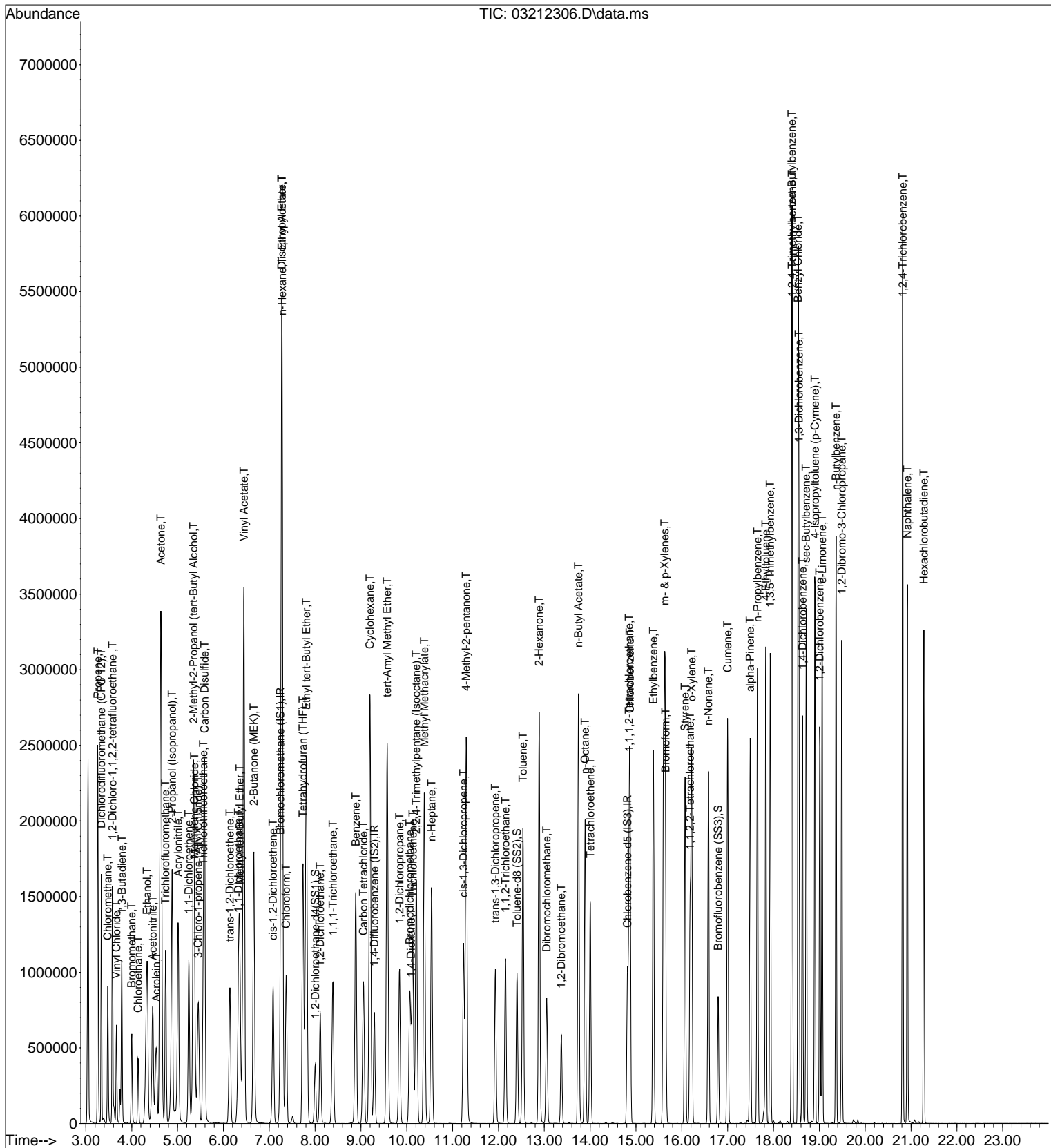
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.54	71	440276	28.802	ng	95
52) cis-1,3-Dichloropropene	11.24	75	851425	35.268	ng	100
53) 4-Methyl-2-pentanone	11.30	58	881270	58.636	ng	95
54) trans-1,3-Dichloropropene	11.93	75	706027	32.085	ng	100
55) 1,1,2-Trichloroethane	12.15	97	431816	27.020	ng	94
58) Toluene	12.53	91	1743703	26.688	ng	97
59) 2-Hexanone	12.89	43	2476661	60.205	ng	97
60) Dibromochloromethane	13.05	129	560740	28.016	ng	99
61) 1,2-Dibromoethane	13.37	107	502096	27.881	ng	97
62) n-Butyl Acetate	13.74	43	2748483	60.167	ng	98
63) n-Octane	13.89	57	410513	28.792	ng	96
64) Tetrachloroethene	14.01	166	504076	22.378	ng	99
65) Chlorobenzene	14.87	112	1166538	27.014	ng	99
66) Ethylbenzene	15.38	91	2073739	27.673	ng	100
67) m- & p-Xylenes	15.63	91	3377356	54.918	ng	99
68) Bromoform	15.65	173	498259	26.063	ng	98
69) Styrene	16.07	104	1252496	32.295	ng	99
70) o-Xylene	16.21	91	1670448	27.566	ng	99
71) n-Nonane	16.58	43	1100372	28.762	ng	98
72) 1,1,2,2-Tetrachloroethane	16.18	83	788031	31.375	ng	96
74) Cumene	17.00	105	2047480	27.420	ng	99
75) alpha-Pinene	17.49	93	1072970	34.083	ng	99
76) n-Propylbenzene	17.65	91	2472718	27.673	ng	99
77) 3-Ethyltoluene	17.00	105	2047480	No Calib		
78) 4-Ethyltoluene	17.83	105	2034877	28.812	ng	98
79) 1,3,5-Trimethylbenzene	17.93	105	1762785	27.781	ng	98
80) alpha-Methylstyrene	17.00	118	3762	No Calib	#	
81) 2-Ethyltoluene	17.00	105	2047480	No Calib		
82) 1,2,4-Trimethylbenzene	18.41	105	1784958	27.698	ng	99
83) n-Decane	17.00	58	15794	No Calib		
84) Benzyl Chloride	18.54	91	3025106	84.612	ng	99
85) 1,3-Dichlorobenzene	18.55	146	980696	26.267	ng	99
86) 1,4-Dichlorobenzene	18.63	146	981879	26.352	ng	100
87) sec-Butylbenzene	18.71	105	2260848	26.882	ng	98
88) 4-Isopropyltoluene (p-...	18.91	119	1917257	26.157	ng	99
89) 1,2,3-Trimethylbenzene	17.00	105	2047480	No Calib		
90) 1,2-Dichlorobenzene	19.01	146	951195	25.473	ng	100
91) d-Limonene	19.06	68	674624	31.252	ng	96
92) 1,2-Dibromo-3-Chloropr...	19.49	157	738212	52.596	ng	# 80
93) n-Undecane	18.10	58	322	No Calib	#	
94) 1,2,4-Trichlorobenzene	20.82	180	1544249	53.920	ng	100
95) Naphthalene	20.92	128	2228161	39.166	ng	100
96) n-Dodecane	19.06	58	5712	No Calib		
97) Hexachlorobutadiene	21.28	225	525477	22.126	ng	99
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	18.40	119	1621911	26.451	ng	99
100) n-Butylbenzene	19.37	91	1885581	28.079	ng	97
101) 1,1,1,2-Tetrachloroethane	14.85	131	454771	26.896	ng	99

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

Data File : I:\MS09\DATA\2023 03\21\03212306.D
 Acq On : 21 Mar 2023 3:00
 Sample : LCS R09032123 25ng
 Misc : S35-02212305/S37-03162303 (4/15)

Vial: 2
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 21 07:46:53 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2023 03\21\03212307.D
 Acq On : 21 Mar 2023 3:32
 Sample : LCSD R09032123 25ng
 Misc : S35-02212305/S37-03162303 (4/15)

Vial: 2
 Operator: WA/SR
 Inst : MS09

DA 3/22/23

Quant Time: Mar 21 07:46:56 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.24	130	162406	12.500	ng	0.00
37) 1,4-Difluorobenzene (IS2)	9.29	114	731549	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	14.81	54	164933	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.00	65	351527	12.785	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.32%
57) Toluene-d8 (SS2)	12.40	98	862156	13.757	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	110.08%
73) Bromofluorobenzene (SS3)	16.79	174	271608	10.628	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	85.04%

Target Compounds

						Qvalue
2) Propene	3.26	42	675314	31.260	ng	96
3) Dichlorodifluoromethan...	3.34	85	992588	26.471	ng	99
4) Chloromethane	3.48	50	768232	32.622	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	3.58	135	434871	24.762	ng	99
6) Vinyl Chloride	3.67	62	599350	31.751	ng	99
7) 1,3-Butadiene	3.78	54	398269	30.403	ng	96
8) Bromomethane	4.00	94	351727	29.322	ng	96
9) Chloroethane	4.14	64	314553	31.945	ng	100
10) Ethanol	4.34	45	2167794	140.660	ng	99
11) Acetonitrile	4.46	41	1057700	27.048	ng	99
12) Acrolein	4.53	56	649553	63.232	ng	98
13) Acetone	4.64	58	1616111	138.382	ng	# 85
14) Trichlorofluoromethane	4.74	101	907044	24.260	ng	98
15) 2-Propanol (Isopropanol)	4.88	45	2636588	57.826	ng	99
16) Acrylonitrile	5.02	53	1266553	57.266	ng	99
17) 1,1-Dichloroethene	5.24	96	412961	27.321	ng	98
18) 2-Methyl-2-Propanol (t...	5.35	59	2531928	63.597	ng	99
19) Methylene Chloride	5.36	84	440028	28.548	ng	96
20) 3-Chloro-1-propene (Al...	5.45	41	814714	28.021	ng	98
21) Trichlorotrifluoroethane	5.56	151	381488	22.553	ng	# 80
22) Carbon Disulfide	5.59	76	3218948	57.373	ng	100
23) trans-1,2-Dichloroethene	6.14	61	735305	29.206	ng	97
24) 1,1-Dichloroethane	6.33	63	882122	28.541	ng	100
25) Methyl tert-Butyl Ether	6.36	73	1454236	30.500	ng	100
26) Vinyl Acetate	6.45	86	449178	198.468	ng	# 82
27) 2-Butanone (MEK)	6.66	72	579662	62.270	ng	# 84
28) cis-1,2-Dichloroethene	7.08	61	688994	26.965	ng	96
29) Diisopropyl Ether	7.27	87	683053	52.929	ng	# 24
30) Ethyl Acetate	7.28	61	325163	45.433	ng	95
31) n-Hexane	7.28	57	762254	25.651	ng	97
32) Chloroform	7.37	83	854177	26.187	ng	97
34) Tetrahydrofuran (THF)	7.74	72	521867	55.978	ng	96
35) Ethyl tert-Butyl Ether	7.81	87	1053809	59.956	ng	96
36) 1,2-Dichloroethane	8.11	62	751984	26.525	ng	98
38) 1,1,1-Trichloroethane	8.39	97	798705	24.752	ng	98
39) Isopropyl Acetate	9.20	61	2627	No Calib	#	
40) 1-Butanol	8.82	56	3154	No Calib	#	
41) Benzene	8.89	78	1715338	27.474	ng	100
42) Carbon Tetrachloride	9.05	117	738108	26.824	ng	100
43) Cyclohexane	9.20	84	1264012	54.422	ng	96
44) tert-Amyl Methyl Ether	9.57	73	2571528	60.594	ng	96
45) 1,2-Dichloropropane	9.84	63	476495	27.083	ng	98
46) Bromodichloromethane	10.06	83	711143	27.458	ng	97
47) Trichloroethene	10.13	130	459755	25.115	ng	99
48) 1,4-Dioxane	10.10	88	365900	29.926	ng	100
49) 2,2,4-Trimethylpentane...	10.21	57	1975942	25.880	ng	94
50) Methyl Methacrylate	10.38	100	337770	57.322	ng	# 84

Data File : I:\MS09\DATA\2023 03\21\03212307.D
 Acq On : 21 Mar 2023 3:32
 Sample : LCSD R09032123 25ng
 Misc : S35-02212305/S37-03162303 (4/15)

Vial: 2
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 21 07:46:56 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

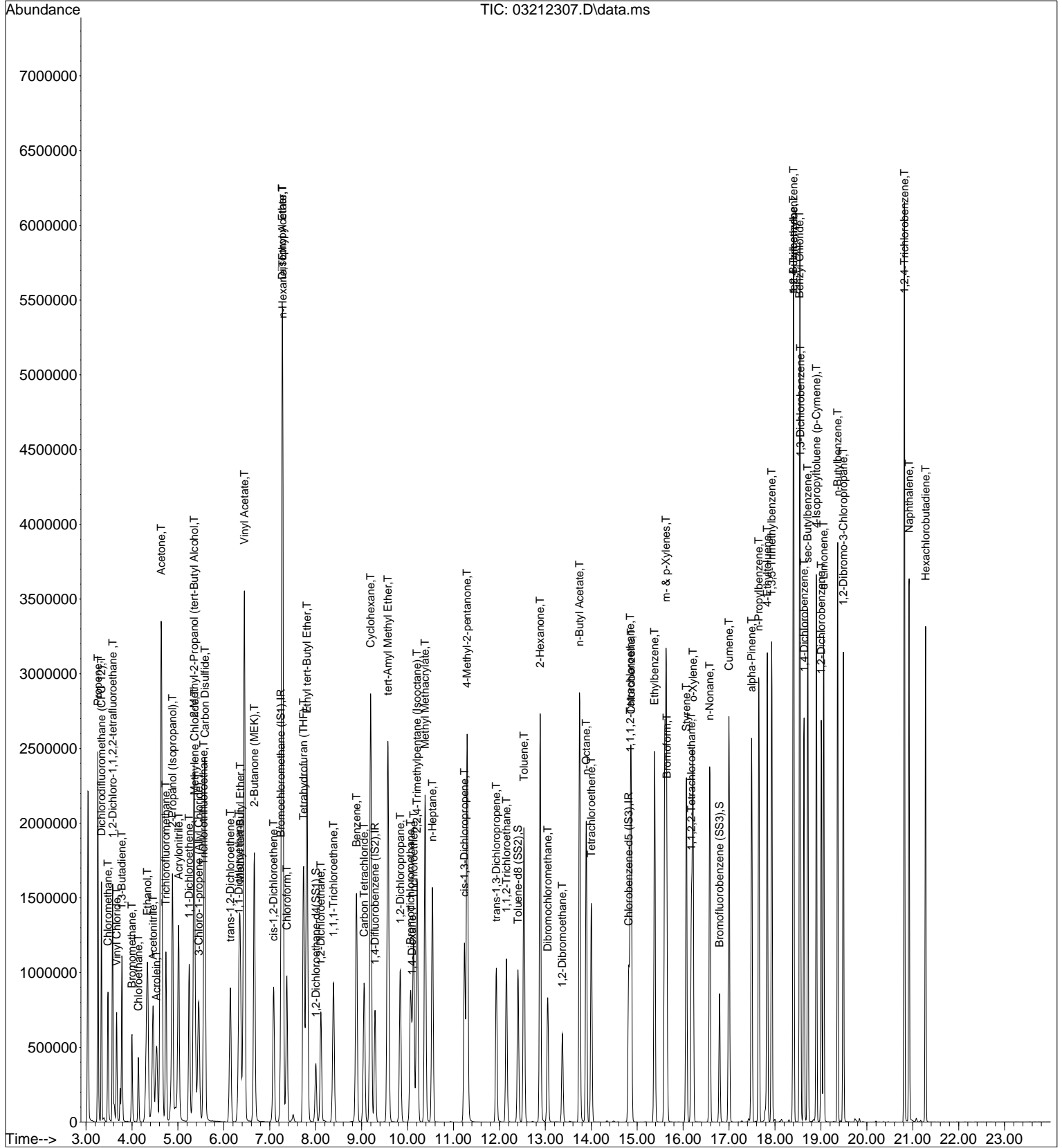
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.54	71	443067	28.487	ng	95
52) cis-1,3-Dichloropropene	11.24	75	857719	34.919	ng	99
53) 4-Methyl-2-pentanone	11.30	58	891336	58.289	ng	95
54) trans-1,3-Dichloropropene	11.93	75	718457	32.090	ng	100
55) 1,1,2-Trichloroethane	12.15	97	434789	26.740	ng	94
58) Toluene	12.53	91	1757390	26.337	ng	97
59) 2-Hexanone	12.89	43	2511296	59.777	ng	97
60) Dibromochloromethane	13.05	129	564498	27.617	ng	99
61) 1,2-Dibromoethane	13.37	107	503836	27.396	ng	97
62) n-Butyl Acetate	13.74	43	2793396	59.878	ng	98
63) n-Octane	13.89	57	414135	28.442	ng	96
64) Tetrachloroethene	14.00	166	506195	22.004	ng	100
65) Chlorobenzene	14.87	112	1177599	26.703	ng	99
66) Ethylbenzene	15.38	91	2096702	27.397	ng	100
67) m- & p-Xylenes	15.63	91	3406626	54.242	ng	99
68) Bromoform	15.65	173	499162	25.567	ng	99
69) Styrene	16.07	104	1262606	31.879	ng	99
70) o-Xylene	16.21	91	1686158	27.246	ng	99
71) n-Nonane	16.58	43	1114617	28.528	ng	98
72) 1,1,2,2-Tetrachloroethane	16.18	83	798067	31.114	ng	96
74) Cumene	17.00	105	2060380	27.019	ng	99
75) alpha-Pinene	17.49	93	1082633	33.674	ng	99
76) n-Propylbenzene	17.65	91	2491927	27.308	ng	99
77) 3-Ethyltoluene	17.00	105	2060380	No Calib		
78) 4-Ethyltoluene	17.83	105	2041758	28.308	ng	99
79) 1,3,5-Trimethylbenzene	17.93	105	1769736	27.310	ng	98
80) alpha-Methylstyrene	17.00	118	3622	No Calib	#	
81) 2-Ethyltoluene	17.00	105	2060380	No Calib		
82) 1,2,4-Trimethylbenzene	18.41	105	1795178	27.277	ng	99
83) n-Decane	17.00	58	16080	No Calib		
84) Benzyl Chloride	18.54	91	3049796	83.528	ng	99
85) 1,3-Dichlorobenzene	18.55	146	989925	25.962	ng	99
86) 1,4-Dichlorobenzene	18.63	146	987271	25.946	ng	100
87) sec-Butylbenzene	18.71	105	2270347	26.434	ng	98
88) 4-Isopropyltoluene (p-...	18.90	119	1920343	25.654	ng	99
89) 1,2,3-Trimethylbenzene	17.00	105	2060380	No Calib		
90) 1,2-Dichlorobenzene	19.01	146	960290	25.182	ng	99
91) d-Limonene	19.06	68	680705	30.878	ng	96
92) 1,2-Dibromo-3-Chloropr...	19.49	157	747830	52.173	ng	# 80
93) n-Undecane	18.14	58	123	No Calib	#	
94) 1,2,4-Trichlorobenzene	20.82	180	1578940	53.984	ng	99
95) Naphthalene	20.92	128	2301057	39.606	ng	100
96) n-Dodecane	19.06	58	5550	No Calib	#	
97) Hexachlorobutadiene	21.28	225	532802	21.968	ng	99
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	18.40	119	1631854	26.060	ng	99
100) n-Butylbenzene	19.37	91	1889478	27.552	ng	97
101) 1,1,1,2-Tetrachloroethane	14.85	131	456085	26.412	ng	99

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

Data File : I:\MS09\DATA\2023 03\21\03212307.D
Acq On : 21 Mar 2023 3:32
Sample : LCSD R09032123 25ng
Misc : S35-02212305/S37-03162303 (4/15)

Vial: 2
Operator: WA/SR
Inst : MS09

Quant Time: Mar 21 07:46:56 2023
Quant Method : I:\MS09\METHODS\R9022723.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Feb 28 08:30:18 2023
Response via : Initial Calibration
DataAcq Meth:TO15.M



ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: New York State DEC
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P230321-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 3/22/23
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		ALS		RPD	RPD Limit	Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	% Recovery LCS DLCS	Acceptance Limits				
115-07-1	Propene	212	256	246	121	116	56-128	4	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	212	213	204	100	96	71-112	4	25	
74-87-3	Chloromethane	210	268	256	128	122	53-126	5	25	L
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	214	195	191	91	89	62-121	2	25	
75-01-4	Vinyl Chloride	210	240	256	114	122	63-123	7	25	
106-99-0	1,3-Butadiene	210	240	239	114	114	63-135	0	25	
74-83-9	Bromomethane	210	230	225	110	107	71-112	3	25	
75-00-3	Chloroethane	212	259	250	122	118	66-117	3	25	L
64-17-5	Ethanol	1,100	1140	1110	104	101	57-117	3	25	
75-05-8	Acetonitrile	214	220	214	103	100	59-131	3	25	
107-02-8	Acrolein	440	510	495	116	113	71-123	3	25	
67-64-1	Acetone	1,060	1120	1090	106	103	60-117	3	25	
75-69-4	Trichlorofluoromethane (CFC 11)	210	192	185	91	88	71-114	3	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	414	465	451	112	109	61-124	3	25	
107-13-1	Acrylonitrile	418	465	453	111	108	65-130	3	25	
75-35-4	1,1-Dichloroethene	204	219	213	107	104	74-114	3	25	
75-09-2	Methylene Chloride	204	229	222	112	109	75-112	3	25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	212	217	209	102	99	57-127	3	25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	210	178	173	85	82	73-114	4	25	
75-15-0	Carbon Disulfide	430	463	449	108	104	70-113	4	25	
156-60-5	trans-1,2-Dichloroethene	216	233	226	108	105	76-119	3	25	
75-34-3	1,1-Dichloroethane	216	227	221	105	102	70-114	3	25	
1634-04-4	Methyl tert-Butyl Ether	216	242	237	112	110	72-118	2	25	
108-05-4	Vinyl Acetate	1,100	1600	1540	145	140	56-137	4	25	L
78-93-3	2-Butanone (MEK)	414	500	487	121	118	74-121	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. L = Laboratory control sample recovery outside the specified limits, results may be biased high.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: New York State DEC
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P230321-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 3/22/23
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
156-59-2	cis-1,2-Dichloroethene	214	216	210	101	98	73-117	3	25	
141-78-6	Ethyl Acetate	398	366	360	92	90	59-161	2	25	
110-54-3	n-Hexane	212	208	202	98	95	55-130	3	25	
67-66-3	Chloroform	216	209	203	97	94	71-114	3	25	
109-99-9	Tetrahydrofuran (THF)	402	451	438	112	109	73-114	3	25	
107-06-2	1,2-Dichloroethane	204	210	205	103	100	71-119	3	25	
71-55-6	1,1,1-Trichloroethane	210	196	191	93	91	73-119	2	25	
71-43-2	Benzene	204	220	215	108	105	72-113	3	25	
56-23-5	Carbon Tetrachloride	210	211	205	100	98	67-123	2	25	
110-82-7	Cyclohexane	426	436	423	102	99	70-119	3	25	
78-87-5	1,2-Dichloropropane	214	218	212	102	99	70-118	3	25	
75-27-4	Bromodichloromethane	216	218	211	101	98	74-119	3	25	
79-01-6	Trichloroethene	212	199	193	94	91	74-115	3	25	
123-91-1	1,4-Dioxane	212	240	234	113	110	77-124	3	25	
80-62-6	Methyl Methacrylate	428	455	445	106	104	78-126	2	25	
142-82-5	n-Heptane	214	228	223	107	104	70-119	3	25	
10061-01-5	cis-1,3-Dichloropropene	212	278	270	131	127	81-126	3	25	L
108-10-1	4-Methyl-2-pentanone	426	469	456	110	107	73-129	3	25	
10061-02-6	trans-1,3-Dichloropropene	196	252	246	129	126	80-127	2	25	L
79-00-5	1,1,2-Trichloroethane	216	213	207	99	96	78-117	3	25	
108-88-3	Toluene	214	211	206	99	96	70-118	3	25	
591-78-6	2-Hexanone	426	485	471	114	111	74-132	3	25	
124-48-1	Dibromochloromethane	214	221	213	103	100	69-137	3	25	
106-93-4	1,2-Dibromoethane	204	221	214	108	105	76-128	3	25	
123-86-4	n-Butyl Acetate	424	485	471	114	111	75-134	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. L = Laboratory control sample recovery outside the specified limits, results may be biased high.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: New York State DEC
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P230321-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Silonite Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 3/22/23
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
111-65-9	n-Octane	212	230	224	108	106	68-120	2	25	
127-18-4	Tetrachloroethene	214	175	169	82	79	63-130	4	25	
108-90-7	Chlorobenzene	216	213	207	99	96	70-118	3	25	
100-41-4	Ethylbenzene	218	220	213	101	98	71-123	3	25	
179601-23-1	m,p-Xylenes	430	436	423	101	98	67-127	3	25	
75-25-2	Bromoform	218	203	197	93	90	65-149	3	25	
100-42-5	Styrene	214	255	248	119	116	76-132	3	25	
95-47-6	o-Xylene	216	218	211	101	98	69-124	3	25	
111-84-2	n-Nonane	214	232	225	108	105	64-127	3	25	
79-34-5	1,1,2,2-Tetrachloroethane	216	250	243	116	113	69-128	3	25	
98-82-8	Cumene	212	216	210	102	99	69-125	3	25	
80-56-8	alpha-Pinene	216	268	261	124	121	68-129	2	25	
103-65-1	n-Propylbenzene	212	218	212	103	100	70-127	3	25	
622-96-8	4-Ethyltoluene	218	226	219	104	100	69-127	4	25	
108-67-8	1,3,5-Trimethylbenzene	216	219	212	101	98	66-129	3	25	
95-63-6	1,2,4-Trimethylbenzene	212	217	210	102	99	63-142	3	25	
100-44-7	Benzyl Chloride	428	663	649	155	152	73-145	2	25	L
541-73-1	1,3-Dichlorobenzene	214	204	199	95	93	67-136	2	25	
106-46-7	1,4-Dichlorobenzene	214	205	199	96	93	63-134	3	25	
95-50-1	1,2-Dichlorobenzene	212	199	194	94	92	64-139	2	25	
5989-27-5	d-Limonene	208	248	241	119	116	63-137	3	25	
96-12-8	1,2-Dibromo-3-chloropropane	416	409	400	98	96	72-145	2	25	
120-82-1	1,2,4-Trichlorobenzene	440	425	417	97	95	62-154	2	25	
91-20-3	Naphthalene	220	311	309	141	140	62-156	0.7	25	
87-68-3	Hexachlorobutadiene	218	171	168	78	77	55-142	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. L = Laboratory control sample recovery outside the specified limits, results may be biased high.

Data File : I:\MS09\DATA\2023 03\21\03212334.D
 Acq On : 22 Mar 2023 00:15
 Sample : LCS2 R09032123 25ng
 Misc : S35-02212305/S37-03162303 (4/15)

Vial: 2
 Operator: WA/SR
 Inst : MS09

WA 3/22/23

Quant Time: Mar 22 04:41:38 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	7.24	130	163076	12.500	ng	0.00
37) 1,4-Difluorobenzene (IS2)	9.29	114	735219	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	14.81	54	164085	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.00	65	351917	12.747	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	102.00%
57) Toluene-d8 (SS2)	12.40	98	863059	13.843	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	110.72%
73) Bromofluorobenzene (SS3)	16.79	174	264249	10.394	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	83.12%

Target Compounds

						Qvalue
2) Propene	3.26	42	695353	32.056	ng	96
3) Dichlorodifluoromethan...	3.34	85	1000668	26.577	ng	99
4) Chloromethane	3.48	50	790738	33.440	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	3.58	135	429629	24.363	ng	99
6) Vinyl Chloride	3.67	62	569110	30.025	ng	98
7) 1,3-Butadiene	3.78	54	394516	29.993	ng	97
8) Bromomethane	4.00	94	345538	28.688	ng	96
9) Chloroethane	4.14	64	320317	32.397	ng	99
10) Ethanol	4.34	45	2202978	142.356	ng	99
11) Acetonitrile	4.46	41	1081484	27.543	ng	99
12) Acrolein	4.53	56	657547	63.747	ng	99
13) Acetone	4.64	58	1642083	140.028	ng	# 84
14) Trichlorofluoromethane	4.74	101	899510	23.959	ng	97
15) 2-Propanol (Isopropanol)	4.89	45	2659830	58.096	ng	99
16) Acrylonitrile	5.02	53	1290969	58.130	ng	98
17) 1,1-Dichloroethene	5.24	96	414936	27.339	ng	98
18) 2-Methyl-2-Propanol (t...	5.35	59	2489500	62.275	ng	98
19) Methylene Chloride	5.37	84	442420	28.585	ng	96
20) 3-Chloro-1-propene (Al...	5.45	41	791391	27.107	ng	96
21) Trichlorotrifluoroethane	5.57	151	378854	22.305	ng	# 79
22) Carbon Disulfide	5.59	76	3259419	57.856	ng	100
23) trans-1,2-Dichloroethene	6.14	61	737793	29.185	ng	97
24) 1,1-Dichloroethane	6.33	63	881940	28.418	ng	100
25) Methyl tert-Butyl Ether	6.36	73	1450275	30.292	ng	100
26) Vinyl Acetate	6.45	86	453173	199.410	ng	# 84
27) 2-Butanone (MEK)	6.66	72	584365	62.517	ng	# 85
28) cis-1,2-Dichloroethene	7.08	61	692169	26.978	ng	97
29) Diisopropyl Ether	7.27	87	681216	52.570	ng	# 27
30) Ethyl Acetate	7.28	61	328799	45.753	ng	95
31) n-Hexane	7.28	57	775663	25.995	ng	97
32) Chloroform	7.37	83	854439	26.087	ng	97
34) Tetrahydrofuran (THF)	7.74	72	528283	56.434	ng	96
35) Ethyl tert-Butyl Ether	7.81	87	1048048	59.383	ng	96
36) 1,2-Dichloroethane	8.11	62	747620	26.263	ng	98
38) 1,1,1-Trichloroethane	8.39	97	794145	24.488	ng	97
39) Isopropyl Acetate	9.20	61	2461	No Calib	#	
40) 1-Butanol	8.82	56	3442	No Calib	#	
41) Benzene	8.89	78	1724863	27.489	ng	100
42) Carbon Tetrachloride	9.05	117	730128	26.401	ng	100
43) Cyclohexane	9.20	84	1272316	54.506	ng	96
44) tert-Amyl Methyl Ether	9.58	73	2557613	59.965	ng	96
45) 1,2-Dichloropropane	9.84	63	481556	27.234	ng	97
46) Bromodichloromethane	10.06	83	708490	27.219	ng	97
47) Trichloroethene	10.13	130	456747	24.826	ng	99
48) 1,4-Dioxane	10.10	88	368089	29.955	ng	100
49) 2,2,4-Trimethylpentane...	10.21	57	1998329	26.043	ng	94
50) Methyl Methacrylate	10.38	100	337150	56.931	ng	# 83

Data File : I:\MS09\DATA\2023 03\21\03212334.D
 Acq On : 22 Mar 2023 00:15
 Sample : LCS2 R09032123 25ng
 Misc : S35-02212305/S37-03162303 (4/15)

Vial: 2
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 22 04:41:38 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

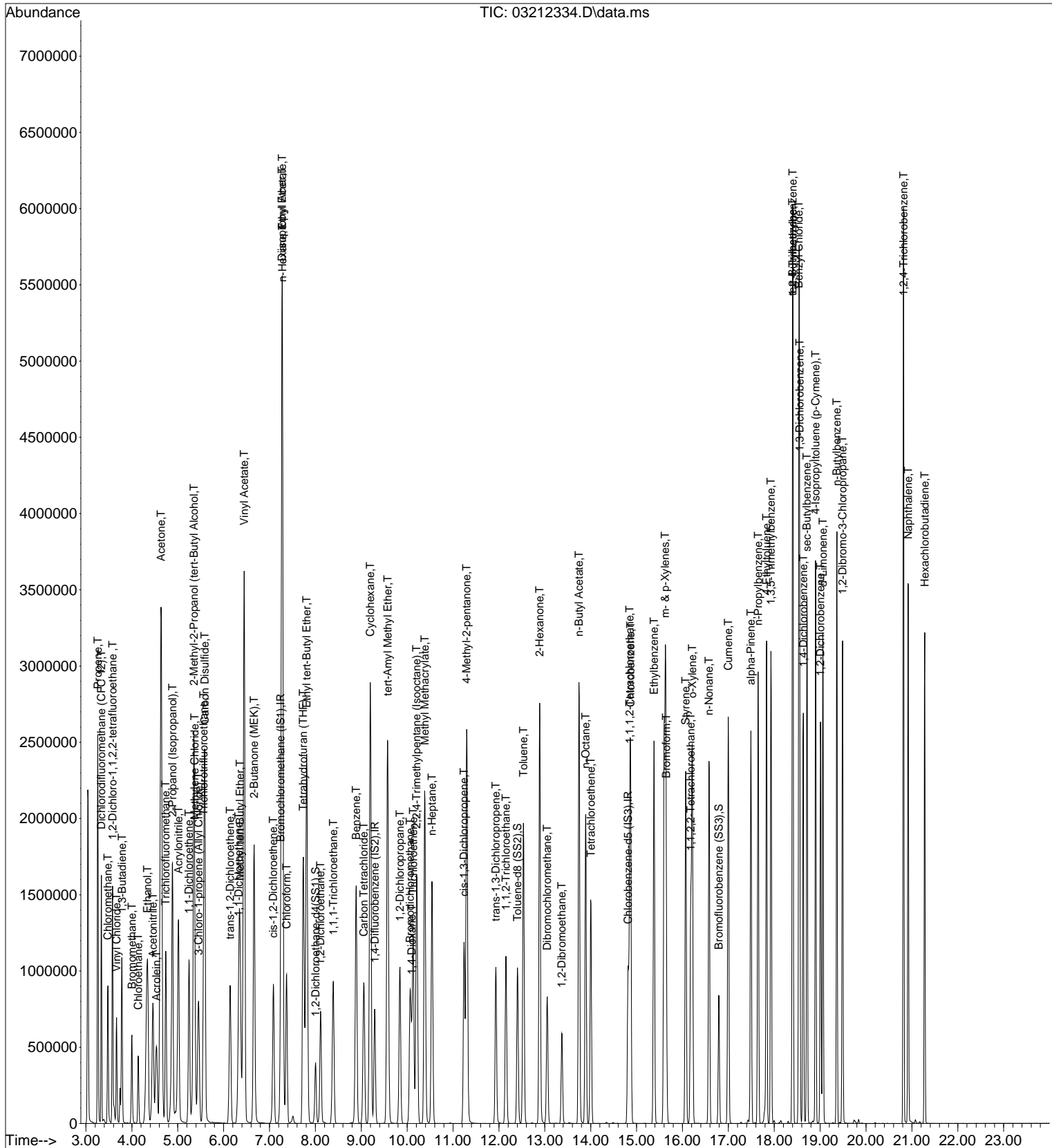
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.54	71	444963	28.466	ng	95
52) cis-1,3-Dichloropropene	11.24	75	856624	34.701	ng	99
53) 4-Methyl-2-pentanone	11.30	58	900260	58.579	ng	95
54) trans-1,3-Dichloropropene	11.93	75	709262	31.521	ng	100
55) 1,1,2-Trichloroethane	12.15	97	434783	26.606	ng	94
58) Toluene	12.53	91	1754458	26.429	ng	97
59) 2-Hexanone	12.89	43	2532424	60.591	ng	97
60) Dibromochloromethane	13.05	129	561872	27.630	ng	99
61) 1,2-Dibromoethane	13.37	107	504617	27.580	ng	98
62) n-Butyl Acetate	13.74	43	2813888	60.629	ng	98
63) n-Octane	13.89	57	415761	28.701	ng	96
64) Tetrachloroethene	14.01	166	501664	21.920	ng	100
65) Chlorobenzene	14.87	112	1170509	26.680	ng	99
66) Ethylbenzene	15.38	91	2089835	27.449	ng	100
67) m- & p-Xylenes	15.62	91	3402315	54.453	ng	99
68) Bromoform	15.65	173	492476	25.355	ng	99
69) Styrene	16.07	104	1257815	31.922	ng	99
70) o-Xylene	16.21	91	1675889	27.220	ng	99
71) n-Nonane	16.58	43	1124843	28.939	ng	98
72) 1,1,2,2-Tetrachloroethane	16.18	83	797382	31.248	ng	96
74) Cumene	17.00	105	2050873	27.034	ng	99
75) alpha-Pinene	17.49	93	1070073	33.456	ng	99
76) n-Propylbenzene	17.65	91	2478787	27.304	ng	99
77) 3-Ethyltoluene	17.00	105	2050873	No Calib		
78) 4-Ethyltoluene	17.83	105	2026504	28.242	ng	99
79) 1,3,5-Trimethylbenzene	17.93	105	1761807	27.329	ng	98
80) alpha-Methylstyrene	17.00	118	3868	No Calib	#	
81) 2-Ethyltoluene	17.00	105	2050873	No Calib		
82) 1,2,4-Trimethylbenzene	18.41	105	1774924	27.109	ng	99
83) n-Decane	17.00	58	16979	No Calib		
84) Benzyl Chloride	18.54	91	3012103	82.922	ng	99
85) 1,3-Dichlorobenzene	18.55	146	969224	25.551	ng	100
86) 1,4-Dichlorobenzene	18.63	146	970277	25.631	ng	99
87) sec-Butylbenzene	18.71	105	2258031	26.426	ng	98
88) 4-Isopropyltoluene (p-...	18.90	119	1906825	25.605	ng	99
89) 1,2,3-Trimethylbenzene	17.00	105	2050873	No Calib		
90) 1,2-Dichlorobenzene	19.01	146	945240	24.916	ng	99
91) d-Limonene	19.06	68	679689	30.991	ng	95
92) 1,2-Dibromo-3-Chloropr...	19.49	157	729305	51.144	ng	# 79
93) n-Undecane	18.11	58	328	No Calib	#	
94) 1,2,4-Trichlorobenzene	20.82	180	1545163	53.103	ng	99
95) Naphthalene	20.92	128	2244724	38.836	ng	100
96) n-Dodecane	19.06	58	5716	No Calib	#	
97) Hexachlorobutadiene	21.28	225	514856	21.337	ng	100
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	18.40	119	1610709	25.855	ng	99
100) n-Butylbenzene	19.37	91	1879356	27.546	ng	96
101) 1,1,1,2-Tetrachloroethane	14.85	131	452787	26.357	ng	99

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

Data File : I:\MS09\DATA\2023 03\21\03212334.D
 Acq On : 22 Mar 2023 00:15
 Sample : LCS2 R09032123 25ng
 Misc : S35-02212305/S37-03162303 (4/15)

Vial: 2
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 22 04:41:38 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2023 03\21\03212335.D
 Acq On : 22 Mar 2023 00:47
 Sample : LCSD2 R09032123 25ng
 Misc : S35-02212305/S37-03162303 (4/15)

Vial: 2
 Operator: WA/SR
 Inst : MS09

DA 3/22/23

Quant Time: Mar 22 04:41:40 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.24	130	166502	12.500	ng	0.00
37) 1,4-Difluorobenzene (IS2)	9.29	114	751916	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	14.81	54	168614	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.00	65	358319	12.712	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	101.68%
57) Toluene-d8 (SS2)	12.40	98	882080	13.768	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	110.16%
73) Bromofluorobenzene (SS3)	16.79	174	271136	10.378	ng	0.00
Spiked Amount	12.500	Range	70 - 130	Recovery	=	83.04%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.25	42	679772	30.693	ng	95
3) Dichlorodifluoromethan...	3.33	85	981636	25.535	ng	99
4) Chloromethane	3.47	50	772382	31.991	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	3.57	135	430276	23.897	ng	98
6) Vinyl Chloride	3.66	62	620367	32.056	ng	99
7) 1,3-Butadiene	3.78	54	401326	29.883	ng	95
8) Bromomethane	3.99	94	345951	28.131	ng	96
9) Chloroethane	4.14	64	315466	31.250	ng	100
10) Ethanol	4.34	45	2186003	138.352	ng	99
11) Acetonitrile	4.45	41	1072294	26.747	ng	99
12) Acrolein	4.53	56	651893	61.899	ng	98
13) Acetone	4.64	58	1625190	135.736	ng	# 84
14) Trichlorofluoromethane	4.73	101	886922	23.138	ng	97
15) 2-Propanol (Isopropanol)	4.88	45	2636256	56.396	ng	99
16) Acrylonitrile	5.01	53	1282822	56.575	ng	98
17) 1,1-Dichloroethene	5.24	96	412565	26.623	ng	98
18) 2-Methyl-2-Propanol (t...	5.35	59	2516254	61.649	ng	98
19) Methylene Chloride	5.36	84	438374	27.741	ng	95
20) 3-Chloro-1-propene (Al...	5.45	41	778765	26.126	ng	96
21) Trichlorotrifluoroethane	5.56	151	375948	21.679	ng	# 79
22) Carbon Disulfide	5.58	76	3226630	56.095	ng	99
23) trans-1,2-Dichloroethene	6.14	61	730549	28.304	ng	97
24) 1,1-Dichloroethane	6.32	63	875511	27.631	ng	100
25) Methyl tert-Butyl Ether	6.36	73	1446983	29.602	ng	100
26) Vinyl Acetate	6.45	86	447585	192.899	ng	# 87
27) 2-Butanone (MEK)	6.66	72	580647	60.841	ng	# 85
28) cis-1,2-Dichloroethene	7.08	61	687585	26.248	ng	97
29) Diisopropyl Ether	7.27	87	679014	51.322	ng	# 27
30) Ethyl Acetate	7.28	61	330575	45.053	ng	95
31) n-Hexane	7.28	57	769909	25.271	ng	97
32) Chloroform	7.37	83	849231	25.395	ng	97
34) Tetrahydrofuran (THF)	7.74	72	523270	54.748	ng	97
35) Ethyl tert-Butyl Ether	7.81	87	1044660	57.973	ng	96
36) 1,2-Dichloroethane	8.11	62	746074	25.669	ng	98
38) 1,1,1-Trichloroethane	8.39	97	791454	23.863	ng	98
39) Isopropyl Acetate	9.19	61	2565	No Calib	#	
40) 1-Butanol	8.83	56	3431	No Calib	#	
41) Benzene	8.89	78	1721794	26.831	ng	100
42) Carbon Tetrachloride	9.05	117	725233	25.642	ng	99
43) Cyclohexane	9.20	84	1262095	52.868	ng	97
44) tert-Amyl Methyl Ether	9.57	73	2554225	58.556	ng	96
45) 1,2-Dichloropropane	9.84	63	479934	26.540	ng	98
46) Bromodichloromethane	10.06	83	701949	26.369	ng	97
47) Trichloroethene	10.13	130	453130	24.082	ng	100
48) 1,4-Dioxane	10.10	88	367033	29.206	ng	100
49) 2,2,4-Trimethylpentane...	10.21	57	1988714	25.342	ng	94
50) Methyl Methacrylate	10.38	100	336661	55.586	ng	# 83

Data File : I:\MS09\DATA\2023 03\21\03212335.D
 Acq On : 22 Mar 2023 00:47
 Sample : LCSD2 R09032123 25ng
 Misc : S35-02212305/S37-03162303 (4/15)

Vial: 2
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 22 04:41:40 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

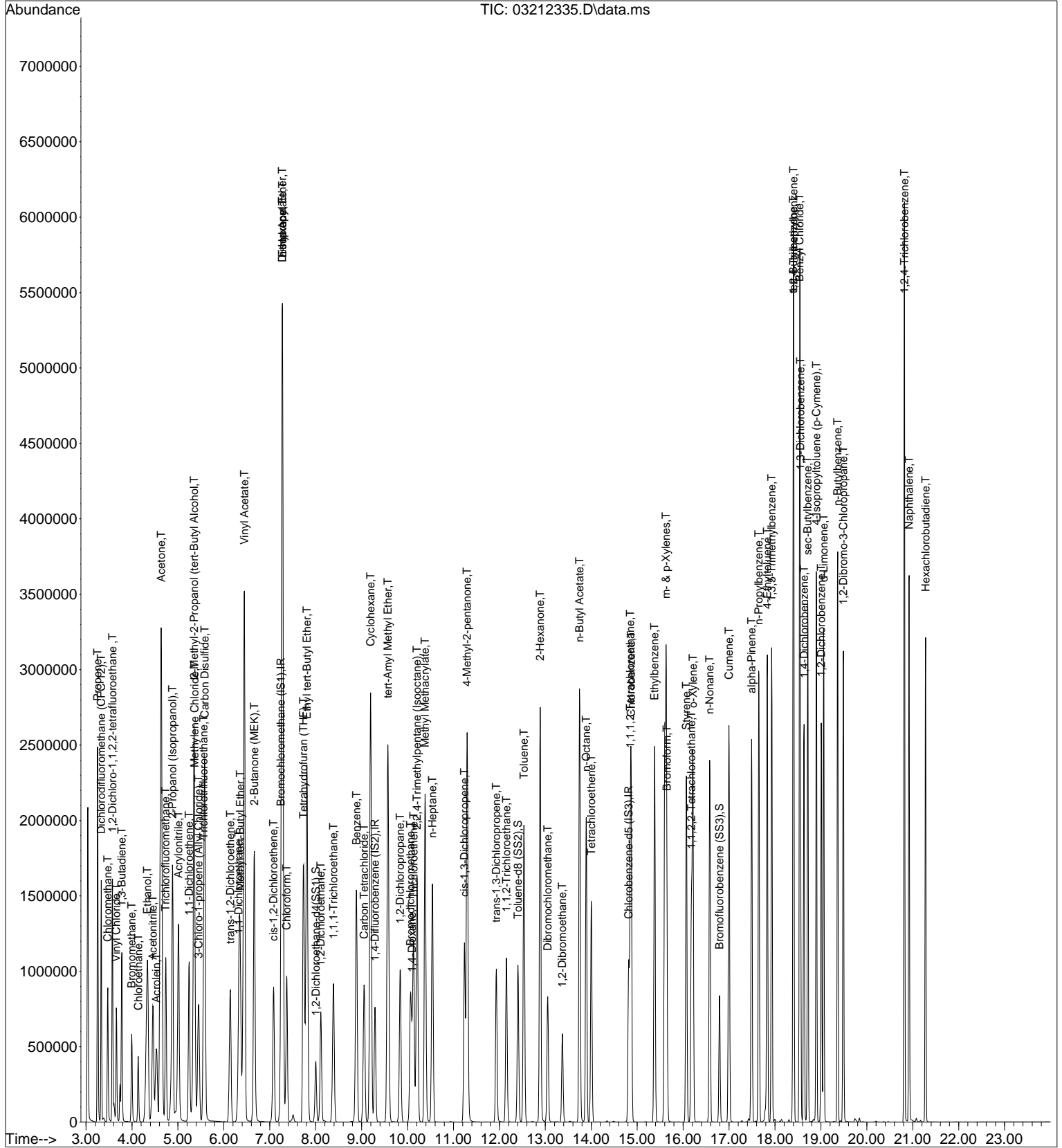
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.54	71	445423	27.863	ng	95
52) cis-1,3-Dichloropropene	11.24	75	853122	33.791	ng	99
53) 4-Methyl-2-pentanone	11.30	58	896323	57.027	ng	95
54) trans-1,3-Dichloropropene	11.93	75	708877	30.804	ng	100
55) 1,1,2-Trichloroethane	12.15	97	432939	25.905	ng	94
58) Toluene	12.53	91	1752747	25.694	ng	97
59) 2-Hexanone	12.89	43	2527231	58.843	ng	97
60) Dibromochloromethane	13.05	129	556665	26.639	ng	99
61) 1,2-Dibromoethane	13.37	107	502029	26.702	ng	97
62) n-Butyl Acetate	13.74	43	2810333	58.926	ng	98
63) n-Octane	13.89	57	416590	27.986	ng	96
64) Tetrachloroethene	14.00	166	498224	21.185	ng	100
65) Chlorobenzene	14.87	112	1166976	25.885	ng	99
66) Ethylbenzene	15.38	91	2085225	26.653	ng	100
67) m- & p-Xylenes	15.63	91	3394203	52.864	ng	99
68) Bromoform	15.65	173	491062	24.603	ng	98
69) Styrene	16.07	104	1253259	30.952	ng	99
70) o-Xylene	16.21	91	1671957	26.427	ng	99
71) n-Nonane	16.58	43	1123763	28.134	ng	98
72) 1,1,2,2-Tetrachloroethane	16.18	83	794956	30.316	ng	96
74) Cumene	17.00	105	2042427	26.199	ng	99
75) alpha-Pinene	17.49	93	1070625	32.574	ng	99
76) n-Propylbenzene	17.64	91	2474930	26.530	ng	99
77) 3-Ethyltoluene	17.00	105	2042427	No Calib		
78) 4-Ethyltoluene	17.83	105	2022997	27.436	ng	99
79) 1,3,5-Trimethylbenzene	17.93	105	1758267	26.541	ng	98
80) alpha-Methylstyrene	17.00	118	3675	No Calib	#	
81) 2-Ethyltoluene	17.00	105	2042427	No Calib		
82) 1,2,4-Trimethylbenzene	18.41	105	1768631	26.287	ng	99
83) n-Decane	16.99	58	17838	No Calib		
84) Benzyl Chloride	18.54	91	3028171	81.125	ng	99
85) 1,3-Dichlorobenzene	18.55	146	971713	24.928	ng	99
86) 1,4-Dichlorobenzene	18.63	146	968179	24.889	ng	100
87) sec-Butylbenzene	18.71	105	2250948	25.636	ng	98
88) 4-Isopropyltoluene (p-...)	18.90	119	1906622	24.915	ng	99
89) 1,2,3-Trimethylbenzene	17.00	105	2042427	No Calib		
90) 1,2-Dichlorobenzene	19.01	146	943789	24.209	ng	99
91) d-Limonene	19.06	68	679651	30.157	ng	95
92) 1,2-Dibromo-3-Chloropr...	19.49	157	732362	49.978	ng	# 80
93) n-Undecane	18.10	58	118	No Calib	#	
94) 1,2,4-Trichlorobenzene	20.82	180	1558483	52.122	ng	99
95) Naphthalene	20.92	128	2291258	38.576	ng	100
96) n-Dodecane	19.06	58	5586	No Calib	#	
97) Hexachlorobutadiene	21.28	225	521728	21.041	ng	100
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	18.40	119	1608528	25.127	ng	99
100) n-Butylbenzene	19.37	91	1875642	26.753	ng	96
101) 1,1,1,2-Tetrachloroethane	14.85	131	452972	25.659	ng	99

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

Data File : I:\MS09\DATA\2023 03\21\03212335.D
 Acq On : 22 Mar 2023 00:47
 Sample : LCSD2 R09032123 25ng
 Misc : S35-02212305/S37-03162303 (4/15)

Vial: 2
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 22 04:41:40 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 3

Client: New York State DEC
Client Sample ID: Building-2-IA-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-007DUP

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC02178

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 0.30 Liter(s)

Initial Pressure (psig): 0.0

Final Pressure (psig): 3.86

Canister Dilution Factor: 1.26

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
Propene	20.2	11.8	22.1	12.8	21.15	9	25	
Dichlorodifluoromethane (CFC 12)	2.36	0.477	2.32	0.469	2.34	2	25	
Chloromethane	1.55	0.749	1.48	0.716	1.515	5	25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	ND	ND	ND	-	-	25	
Vinyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Butadiene	ND	ND	ND	ND	-	-	25	
Bromomethane	ND	ND	ND	ND	-	-	25	
Chloroethane	ND	ND	ND	ND	-	-	25	
Ethanol	352	187	345	183	348.5	2	25	
Acetonitrile	ND	ND	ND	ND	-	-	25	
Acrolein	ND	ND	ND	ND	-	-	25	
Acetone	231	97.4	228	96.0	229.5	1	25	
Trichlorofluoromethane	ND	ND	ND	ND	-	-	25	
2-Propanol (Isopropyl Alcohol)	141	57.6	138	56.3	139.5	2	25	
Acrylonitrile	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethene	ND	ND	ND	ND	-	-	25	
Methylene Chloride	27.9	8.03	27.7	7.98	27.8	0.7	25	
3-Chloro-1-propene (Allyl Chloride)	ND	ND	ND	ND	-	-	25	
Trichlorotrifluoroethane	ND	ND	ND	ND	-	-	25	
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	
Vinyl Acetate	ND	ND	ND	ND	-	-	25	
2-Butanone (MEK)	45.1	15.3	44.2	15.0	44.65	2	25	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 3

Client: New York State DEC
Client Sample ID: Building-2-IA-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-007DUP

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC02178

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 0.30 Liter(s)

Initial Pressure (psig): 0.0

Final Pressure (psig): 3.86

Canister Dilution Factor: 1.26

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
cis-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
Ethyl Acetate	569	158	562	156	565.5	1	25	
n-Hexane	28.5	8.09	28.0	7.93	28.25	2	25	
Chloroform	3.32	0.680	3.29	0.674	3.305	0.9	25	
Tetrahydrofuran (THF)	43.2	14.7	42.5	14.4	42.85	2	25	
1,2-Dichloroethane	7.63	1.89	7.53	1.86	7.58	1	25	
1,1,1-Trichloroethane	ND	ND	ND	ND	-	-	25	
Benzene	15.8	4.96	15.8	4.94	15.8	0	25	
Carbon Tetrachloride	ND	ND	ND	ND	-	-	25	
Cyclohexane	27.3	7.95	27.6	8.01	27.45	1	25	
1,2-Dichloropropane	23.7	5.12	23.7	5.13	23.7	0	25	
Bromodichloromethane	ND	ND	ND	ND	-	-	25	
Trichloroethene	ND	ND	ND	ND	-	-	25	
1,4-Dioxane	ND	ND	ND	ND	-	-	25	
Methyl Methacrylate	11.5	2.81	11.8	2.88	11.65	3	25	
n-Heptane	16.8	4.11	17.1	4.18	16.95	2	25	
cis-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
4-Methyl-2-pentanone	6.91	1.69	6.96	1.70	6.935	0.7	25	
trans-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
1,1,2-Trichloroethane	ND	ND	ND	ND	-	-	25	
Toluene	427	113	423	112	425	0.9	25	
2-Hexanone	ND	ND	ND	ND	-	-	25	
Dibromochloromethane	ND	ND	ND	ND	-	-	25	
1,2-Dibromoethane	ND	ND	ND	ND	-	-	25	
n-Butyl Acetate	11.4	2.39	11.3	2.38	11.35	0.9	25	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Page 3 of 3

Client: New York State DEC
Client Sample ID: Building-2-IA-031423
Client Project ID: Armonk PWS

ALS Project ID: P2301184
 ALS Sample ID: P2301184-007DUP

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC02178

Date Collected: 3/14/23
 Date Received: 3/16/23
 Date Analyzed: 3/21/23
 Volume(s) Analyzed: 0.30 Liter(s)

Initial Pressure (psig): 0.0

Final Pressure (psig): 3.86

Canister Dilution Factor: 1.26

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
n-Octane	5.38	1.15	5.23	1.12	5.305	3	25	
Tetrachloroethene	1.48	0.219	1.49	0.219	1.485	0.7	25	
Chlorobenzene	ND	ND	ND	ND	-	-	25	
Ethylbenzene	35.3	8.12	35.3	8.13	35.3	0	25	
m,p-Xylenes	93.4	21.5	92.8	21.4	93.1	0.6	25	
Bromoform	ND	ND	ND	ND	-	-	25	
Styrene	12.2	2.86	12.1	2.84	12.15	0.8	25	
o-Xylene	37.7	8.67	37.1	8.54	37.4	2	25	
n-Nonane	2.48	0.473	2.48	0.473	2.48	0	25	
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	-	-	25	
Cumene	ND	ND	ND	ND	-	-	25	
alpha-Pinene	16.7	3.00	16.4	2.95	16.55	2	25	
n-Propylbenzene	2.42	0.491	2.43	0.495	2.425	0.4	25	
4-Ethyltoluene	3.48	0.709	3.49	0.709	3.485	0.3	25	
1,3,5-Trimethylbenzene	2.89	0.587	2.84	0.579	2.865	2	25	
1,2,4-Trimethylbenzene	10.7	2.19	10.6	2.16	10.65	0.9	25	
Benzyl Chloride	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	
d-Limonene	56.6	10.2	55.6	9.98	56.1	2	25	
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	-	-	25	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	-	-	25	
Naphthalene	ND	ND	ND	ND	-	-	25	
Hexachlorobutadiene	ND	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

Data File : I:\MS09\DATA\2023 03\21\03212316.D
 Acq On : 21 Mar 2023 13:25
 Sample : P2301184-007dup (300ml)
 Misc : S35-02212305

Vial: 10
 Operator: WA/SR
 Inst : MS09

DA 3/21/23

Quant Time: Mar 21 21:32:09 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	7.23	130	170401	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	9.29	114	767052	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	14.81	54	175779	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.99	65	368518	12.774	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	102.16%	
57) Toluene-d8 (SS2)	12.40	98	914280	13.689	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	109.52%	
73) Bromofluorobenzene (SS3)	16.79	174	281411	10.332	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	82.64%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.26	42	119278m	5.262	ng	
3) Dichlorodifluoromethan...	3.34	85	21731	0.552	ng	99
4) Chloromethane	3.47	50	8707	0.352	ng	92
5) 1,2-Dichloro-1,1,2,2-t...	3.57	135	359	N.D.		
6) Vinyl Chloride	3.66	62	350	N.D.		
7) 1,3-Butadiene	3.78	54	786	N.D.		
8) Bromomethane	3.99	94	727	N.D.		
9) Chloroethane	4.13	64	132	N.D.		
10) Ethanol	4.31	45	1329862	82.241	ng	99
11) Acetonitrile	0.00	41	0	N.D.	d	
12) Acrolein	4.52	56	4448	0.413	ng	90
13) Acetone	4.61	58	665376	54.301	ng	# 1
14) Trichlorofluoromethane	4.74	101	10659	0.272	ng	99
15) 2-Propanol (Isopropanol)	4.86	45	1576596	32.955	ng	96
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	5.35	84	106713	6.598	ng	98
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	5.56	151	1546	N.D.		
22) Carbon Disulfide	5.59	76	56440	0.959	ng	97
23) trans-1,2-Dichloroethene	6.12	61	216	N.D.		
24) 1,1-Dichloroethane	6.35	63	1455	N.D.		
25) Methyl tert-Butyl Ether	6.36	73	1939	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	6.65	72	102743	10.519	ng	# 87
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.	d	
30) Ethyl Acetate	7.27	61	1005169	133.857	ng	100
31) n-Hexane	7.28	57	207499	6.655	ng	100
32) Chloroform	7.36	83	26784	0.783	ng	98
34) Tetrahydrofuran (THF)	7.73	72	99036	10.125	ng	97
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.11	62	53292	1.792	ng	98
38) 1,1,1-Trichloroethane	8.37	97	2575	N.D.		
39) Isopropyl Acetate	9.28	61	25530	No Calib	#	
40) 1-Butanol	8.79	56	47454	No Calib	#	
41) Benzene	8.87	78	246018	3.758	ng	100
42) Carbon Tetrachloride	9.04	117	2842	0.099	ng	99
43) Cyclohexane	9.19	84	159816	6.562	ng	97
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	9.84	63	104137	5.645	ng	97
46) Bromodichloromethane	0.00	83	0	N.D.	d	
47) Trichloroethene	10.13	130	1075	N.D.		
48) 1,4-Dioxane	10.13	88	805	N.D.		
49) 2,2,4-Trimethylpentane...	10.20	57	494954	6.183	ng	97
50) Methyl Methacrylate	10.38	100	17312	2.802	ng	# 73

Data File : I:\MS09\DATA\2023 03\21\03212316.D
 Acq On : 21 Mar 2023 13:25
 Sample : P2301184-007dup (300ml)
 Misc : S35-02212305

Vial: 10
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 21 21:32:09 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

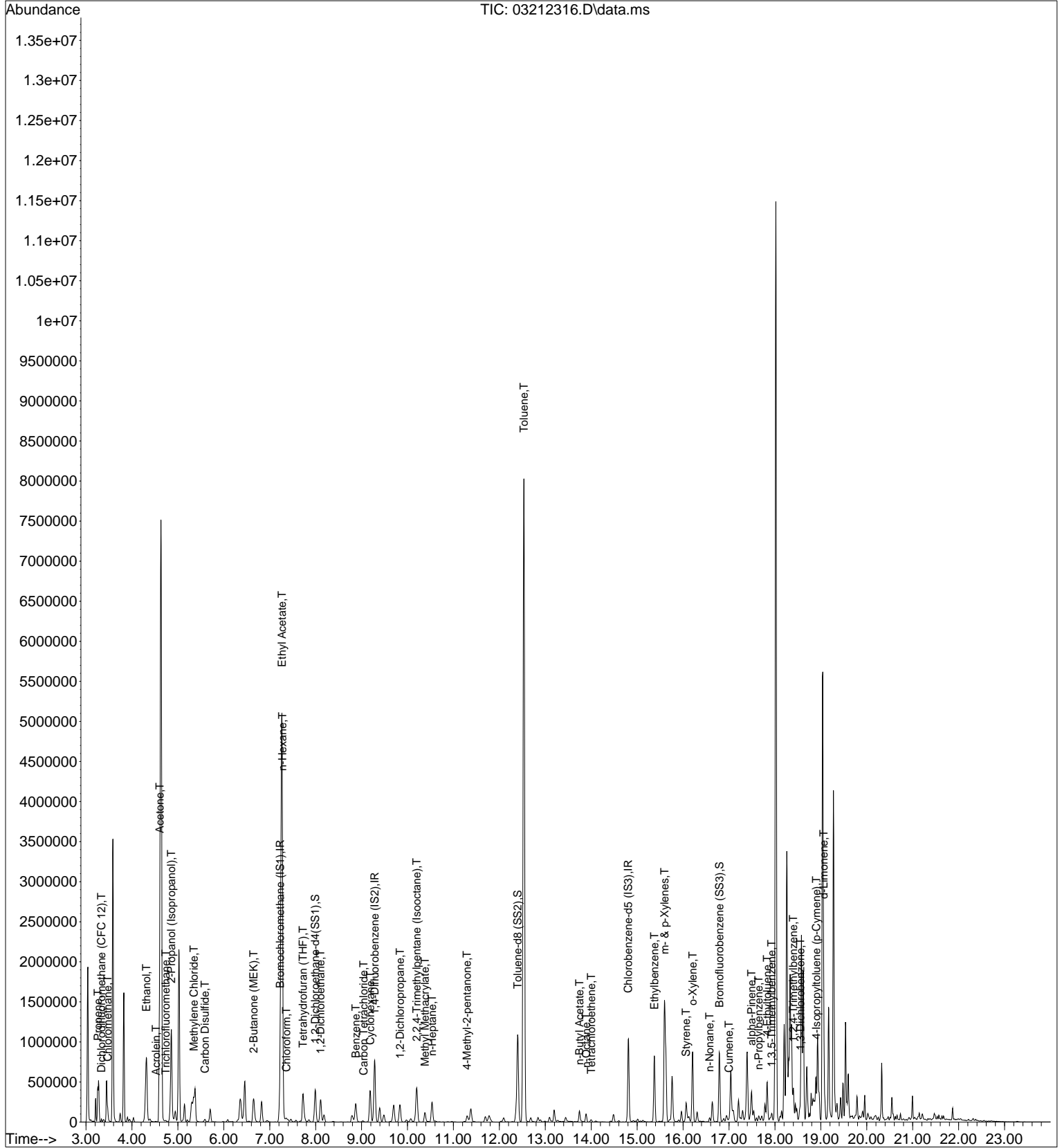
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) n-Heptane	10.54	71	66445	4.074	ng	95
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	11.30	58	26586	1.658	ng	95
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	12.53	91	7167596	100.791	ng	96
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	13.74	43	133718	2.689	ng	97
63) n-Octane	13.89	57	19342	1.246	ng	94
64) Tetrachloroethene	14.00	166	8673	0.354	ng	96
65) Chlorobenzene	14.86	112	1283	N.D.		
66) Ethylbenzene	15.37	91	685780	8.408	ng	100
67) m- & p-Xylenes	15.60	91	1479260	22.100	ng	97
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	16.07	104	121303	2.874	ng	98
70) o-Xylene	16.21	91	582207	8.827	ng	98
71) n-Nonane	16.58	43	24595	0.591	ng	99
72) 1,1,2,2-Tetrachloroethane	16.20	83	507	N.D.		
74) Cumene	17.00	105	26579	0.327	ng	100
75) alpha-Pinene	17.49	93	134105	3.914	ng	100
76) n-Propylbenzene	17.64	91	56327	0.579	ng	99
77) 3-Ethyltoluene	17.00	105	26579	No Calib		
78) 4-Ethyltoluene	17.83	105	63801	0.830	ng	99
79) 1,3,5-Trimethylbenzene	17.93	105	46781	0.677	ng	98
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	17.00	105	26579	No Calib		
82) 1,2,4-Trimethylbenzene	18.40	105	176863	2.522	ng	90
83) n-Decane	17.04	58	23386	No Calib	#	
84) Benzyl Chloride	18.58	91	1283	N.D.		
85) 1,3-Dichlorobenzene	18.55	146	9004	0.222	ng	99
86) 1,4-Dichlorobenzene	18.64	146	954	N.D.		
87) sec-Butylbenzene	18.71	105	4340	N.D.		
88) 4-Isopropyltoluene (p-...	18.90	119	56354	0.706	ng	85
89) 1,2,3-Trimethylbenzene	17.00	105	26579	No Calib		
90) 1,2-Dichlorobenzene	19.01	146	128	N.D.		
91) d-Limonene	19.06	68	310862	13.231	ng	97
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	18.15	58	1583	No Calib	#	
94) 1,2,4-Trichlorobenzene	20.82	180	294	N.D.		
95) Naphthalene	20.93	128	3642	N.D.		
96) n-Dodecane	19.04	58	144432	No Calib	#	
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	15.23	55	555	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:\MS09\DATA\2023 03\21\03212316.D
Acq On : 21 Mar 2023 13:25
Sample : P2301184-007dup (300ml)
Misc : S35-02212305

Vial: 10
Operator: WA/SR
Inst : MS09

Quant Time: Mar 21 21:32:09 2023
Quant Method : I:\MS09\METHODS\R9022723.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Feb 28 08:30:18 2023
Response via : Initial Calibration
DataAcq Meth:TO15.M



Data File : I:\MS09\DATA\2023 03\21\03212316.D
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Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Tue Feb 28 08:30:18 2023

Response via : Initial Calibration

DataAcq Meth:TO15.M

WA 3/21/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	7.23	130	170401	12.500	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	9.29	114	767052	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	14.81	54	175779	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.99	65	368518	12.774	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	102.16%	
57) Toluene-d8 (SS2)	12.40	98	914280	13.689	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	109.52%	
73) Bromofluorobenzene (SS3)	16.79	174	281411	10.332	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	82.64%	

Target Compounds

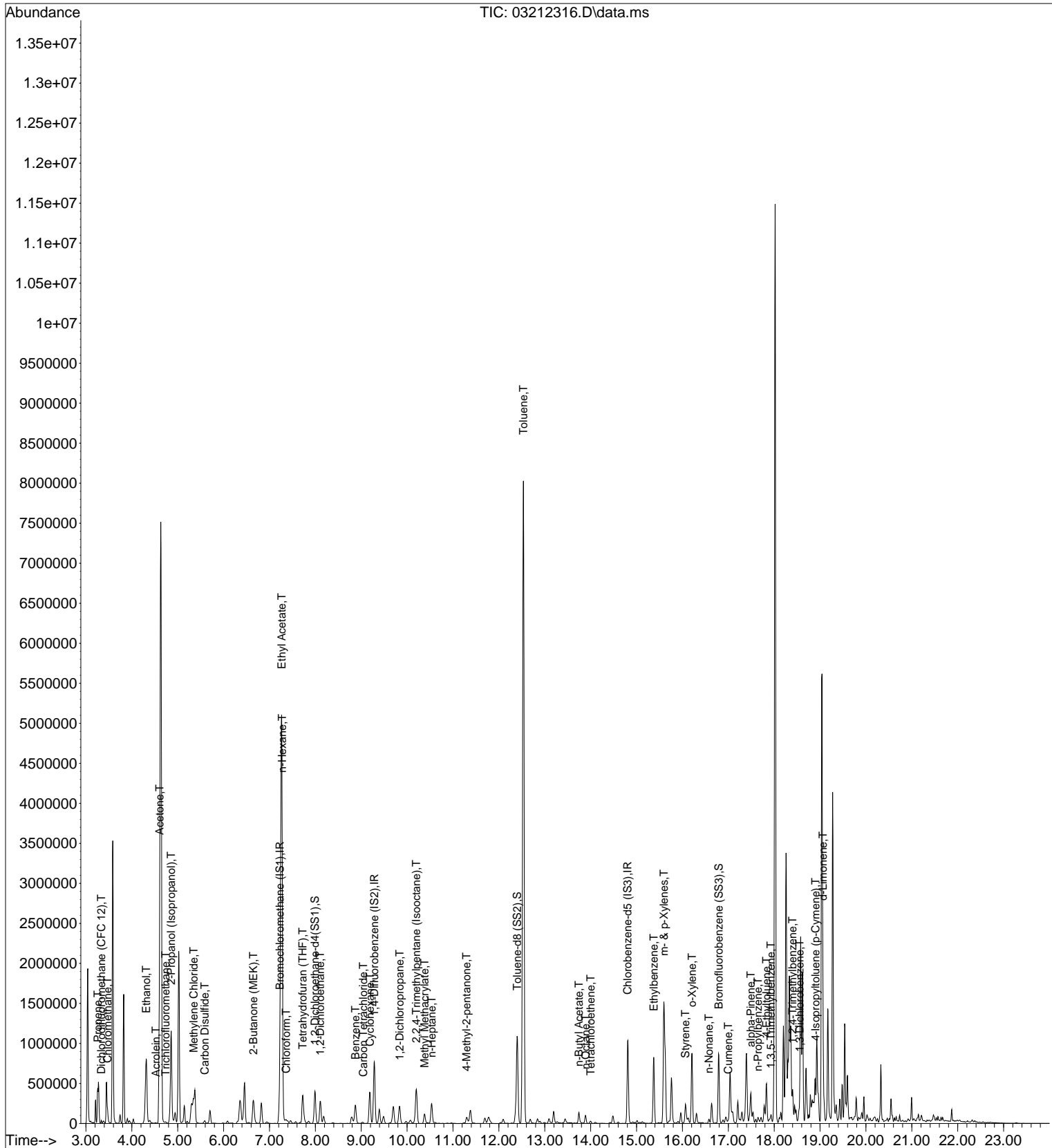
						Qvalue
2) Propene	3.26	42	119278m	5.262	ng	
3) Dichlorodifluoromethan...	3.34	85	21731	0.552	ng	99
4) Chloromethane	3.47	50	8707	0.352	ng	92
10) Ethanol	4.31	45	1329862	82.241	ng	99
12) Acrolein	4.52	56	4448	0.413	ng	90
13) Acetone	4.61	58	665376	54.301	ng	# 1
14) Trichlorofluoromethane	4.74	101	10659	0.272	ng	99
15) 2-Propanol (Isopropanol)	4.86	45	1576596	32.955	ng	96
19) Methylene Chloride	5.35	84	106713	6.598	ng	98
22) Carbon Disulfide	5.59	76	56440	0.959	ng	97
27) 2-Butanone (MEK)	6.65	72	102743	10.519	ng	# 87
30) Ethyl Acetate	7.27	61	1005169	133.857	ng	100
31) n-Hexane	7.28	57	207499	6.655	ng	100
32) Chloroform	7.36	83	26784	0.783	ng	98
34) Tetrahydrofuran (THF)	7.73	72	99036	10.125	ng	97
36) 1,2-Dichloroethane	8.11	62	53292	1.792	ng	98
41) Benzene	8.87	78	246018	3.758	ng	100
42) Carbon Tetrachloride	9.04	117	2842	0.099	ng	99
43) Cyclohexane	9.19	84	159816	6.562	ng	97
45) 1,2-Dichloropropane	9.84	63	104137	5.645	ng	97
49) 2,2,4-Trimethylpentane...	10.20	57	494954	6.183	ng	97
50) Methyl Methacrylate	10.38	100	17312	2.802	ng	# 73
51) n-Heptane	10.54	71	66445	4.074	ng	95
53) 4-Methyl-2-pentanone	11.30	58	26586	1.658	ng	95
58) Toluene	12.53	91	7167596	100.791	ng	96
62) n-Butyl Acetate	13.74	43	133718	2.689	ng	97
63) n-Octane	13.89	57	19342	1.246	ng	94
64) Tetrachloroethene	14.00	166	8673	0.354	ng	96
66) Ethylbenzene	15.37	91	685780	8.408	ng	100
67) m- & p-Xylenes	15.60	91	1479260	22.100	ng	97
69) Styrene	16.07	104	121303	2.874	ng	98
70) o-Xylene	16.21	91	582207	8.827	ng	98
71) n-Nonane	16.58	43	24595	0.591	ng	99
74) Cumene	17.00	105	26579	0.327	ng	100
75) alpha-Pinene	17.49	93	134105	3.914	ng	100
76) n-Propylbenzene	17.64	91	56327	0.579	ng	99
78) 4-Ethyltoluene	17.83	105	63801	0.830	ng	99
79) 1,3,5-Trimethylbenzene	17.93	105	46781	0.677	ng	98
82) 1,2,4-Trimethylbenzene	18.40	105	176863	2.522	ng	90
85) 1,3-Dichlorobenzene	18.55	146	9004	0.222	ng	99
88) 4-Isopropyltoluene (p-...	18.90	119	56354	0.706	ng	85
91) d-Limonene	19.06	68	310862	13.231	ng	97

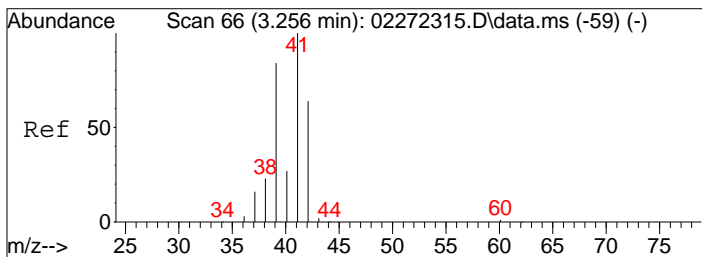
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\MS09\DATA\2023 03\21\03212316.D
Acq On : 21 Mar 2023 13:25
Sample : P2301184-007dup (300ml)
Misc : S35-02212305

Vial: 10
Operator: WA/SR
Inst : MS09

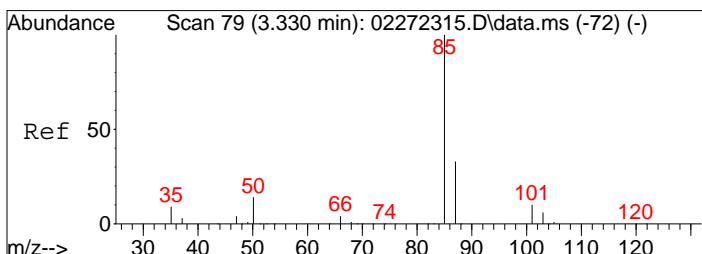
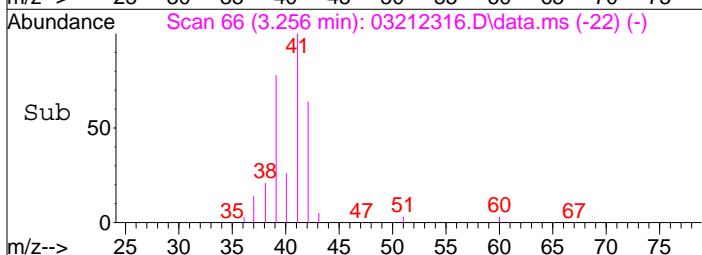
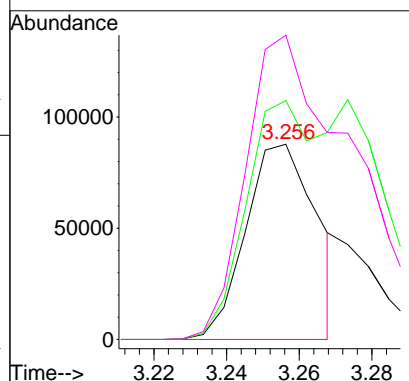
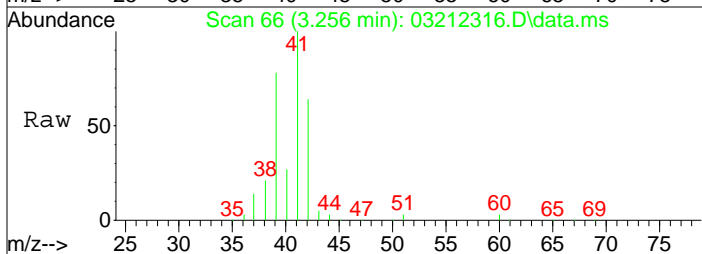
Quant Time: Mar 21 21:32:09 2023
Quant Method : I:\MS09\METHODS\R9022723.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Feb 28 08:30:18 2023
Response via : Initial Calibration
DataAcq Meth:TO15.M





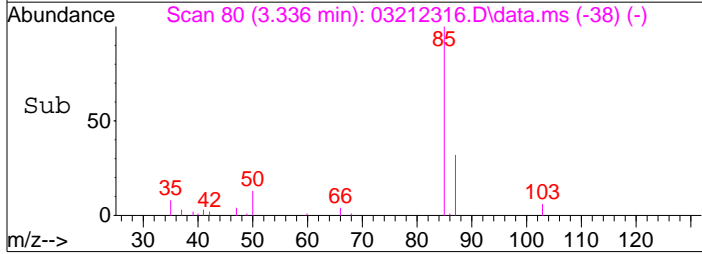
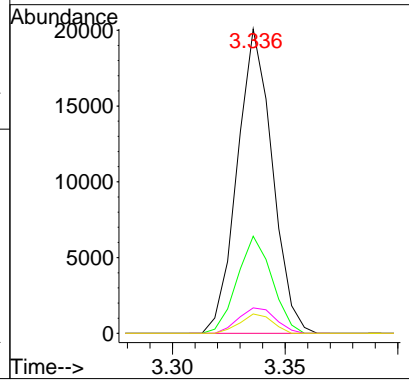
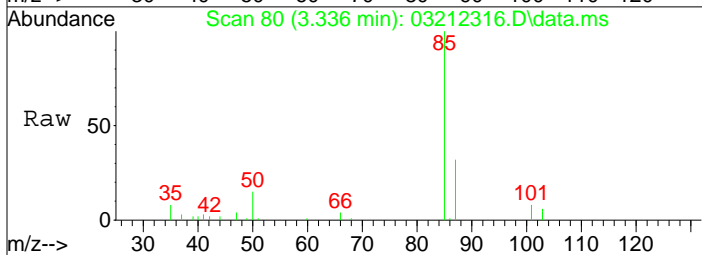
#2
 Propene
 Concen: 5.26 ng m
 RT: 3.26 min Scan# 66
 Delta R.T. 0.000 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

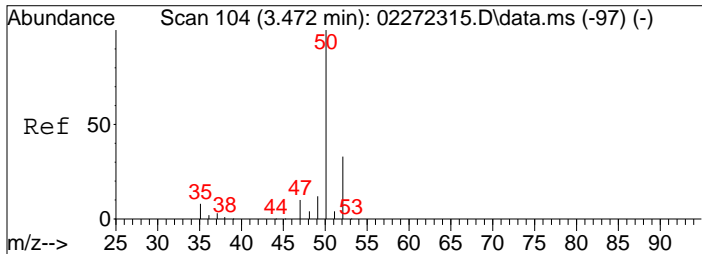
Tgt Ion:	Resp:	Lower	Upper
42	119278		
42	100		
39	133.6	110.0	150.0
41	161.9	135.8	175.8



#3
 Dichlorodifluoromethane (CFC 12)
 Concen: 0.55 ng
 RT: 3.34 min Scan# 80
 Delta R.T. -0.014 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

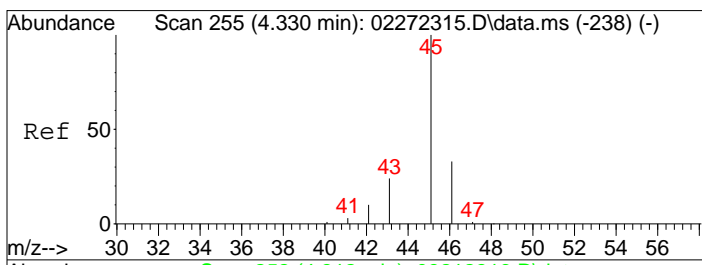
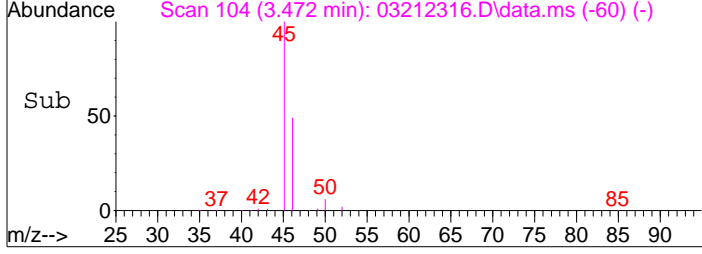
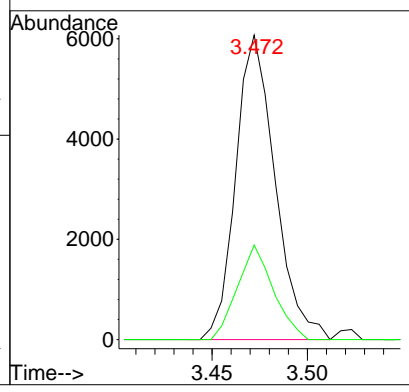
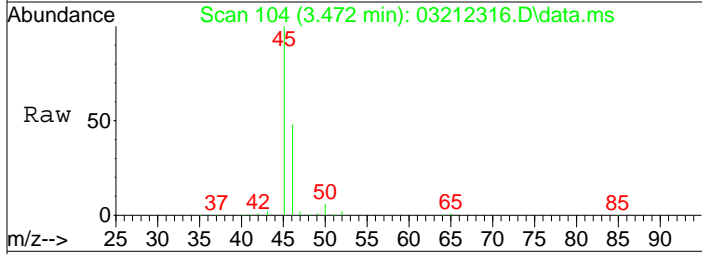
Tgt Ion:	Resp:	Lower	Upper
85	21731		
85	100		
87	31.7	12.3	52.3
101	8.9	0.0	29.7
103	5.9	0.0	26.3





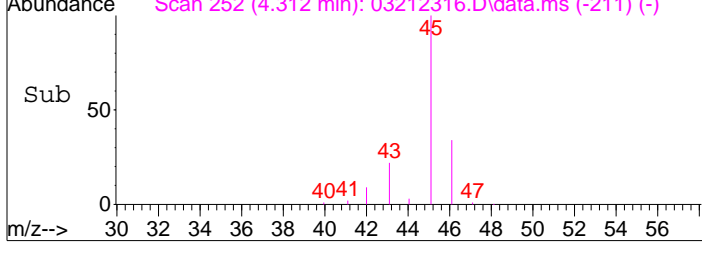
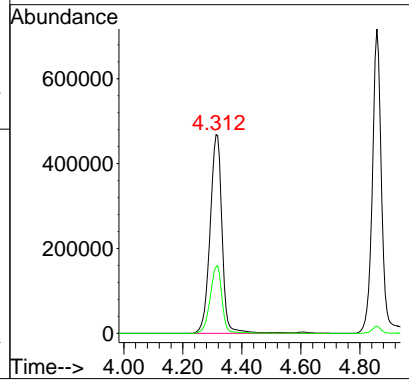
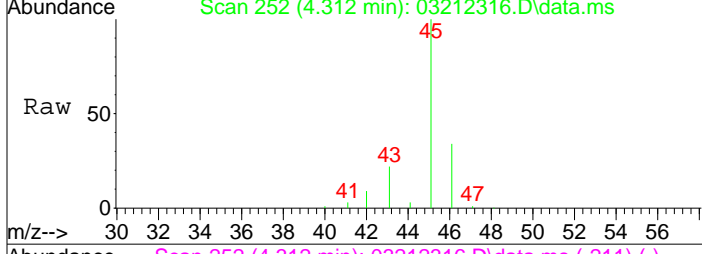
#4
 Chloromethane
 Concen: 0.35 ng
 RT: 3.47 min Scan# 104
 Delta R.T. -0.000 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

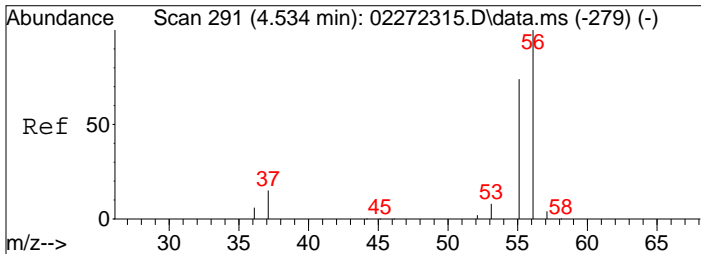
Tgt Ion	Resp	Lower	Upper
50	100		
52	28.3	12.8	52.8



#10
 Ethanol
 Concen: 82.24 ng
 RT: 4.31 min Scan# 252
 Delta R.T. -0.018 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

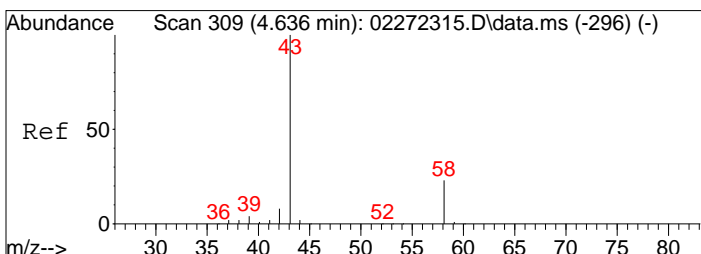
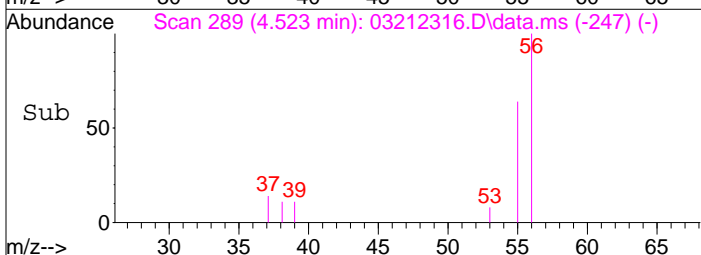
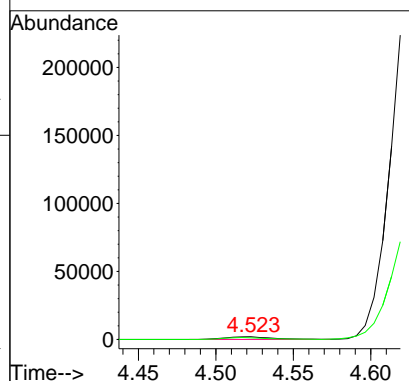
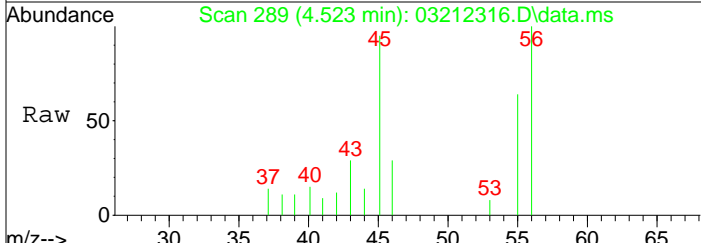
Tgt Ion	Resp	Lower	Upper
45	100		
46	33.7	13.4	53.4





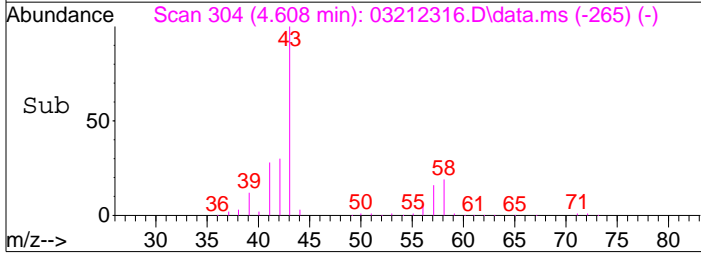
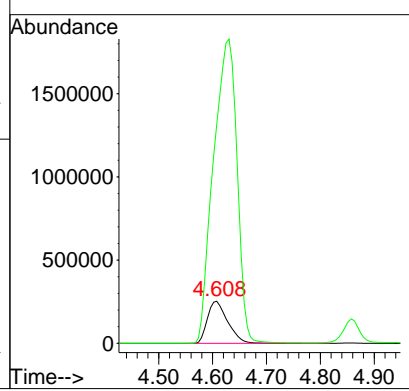
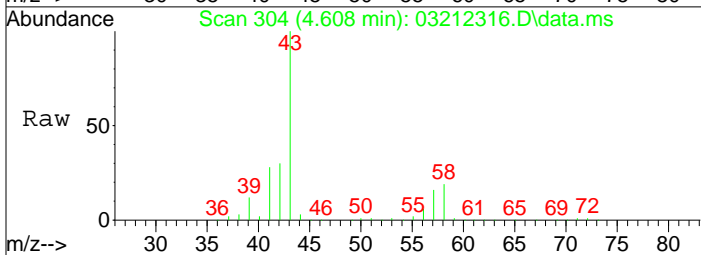
#12
 Acrolein
 Concen: 0.41 ng
 RT: 4.52 min Scan# 289
 Delta R.T. -0.012 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

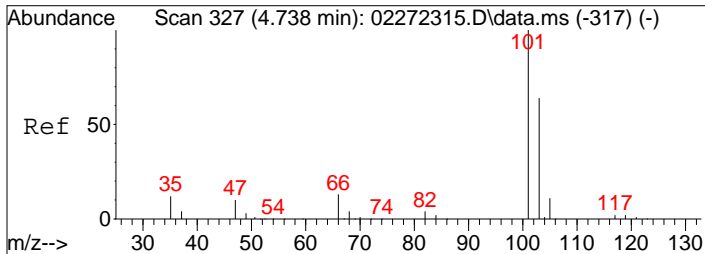
Tgt Ion	Resp	Lower	Upper
56	4448		
55	67.6	56.4	96.4



#13
 Acetone
 Concen: 54.30 ng
 RT: 4.61 min Scan# 304
 Delta R.T. -0.029 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

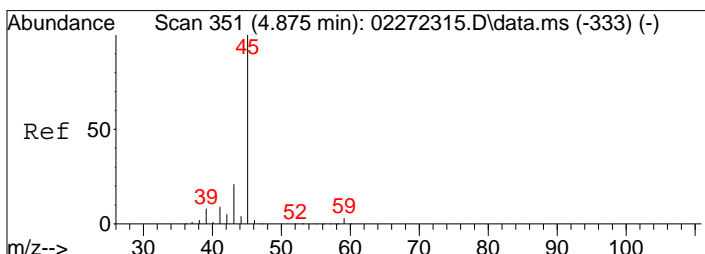
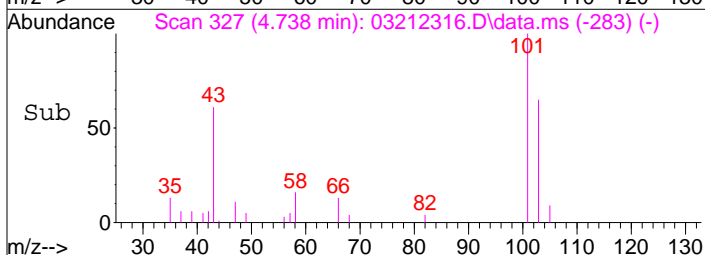
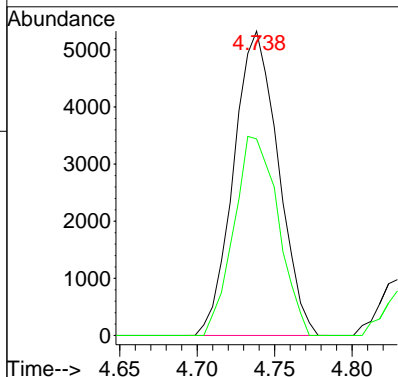
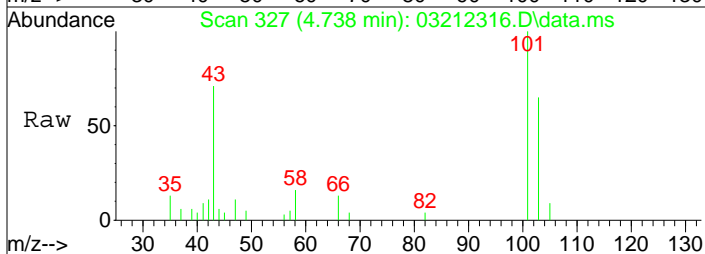
Tgt Ion	Resp	Lower	Upper
58	665376		
43	838.1	414.4	474.4#





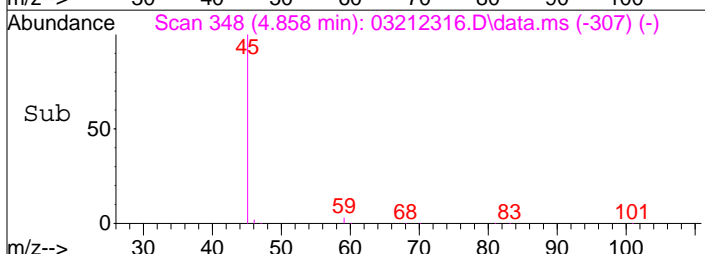
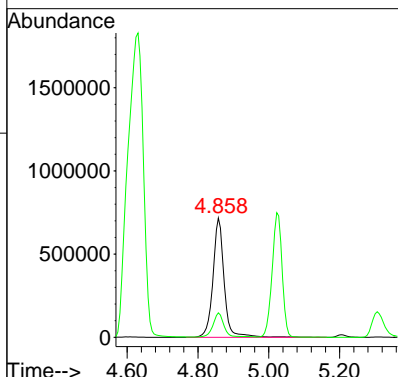
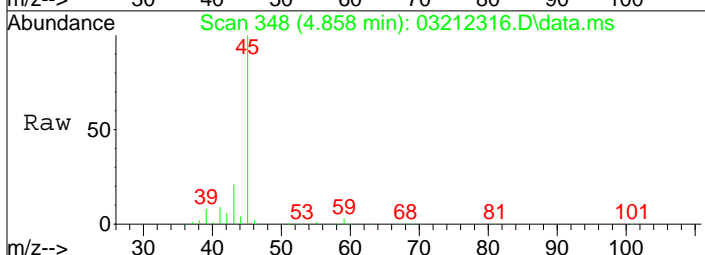
#14
 Trichlorofluoromethane
 Concen: 0.27 ng
 RT: 4.74 min Scan# 327
 Delta R.T. -0.000 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

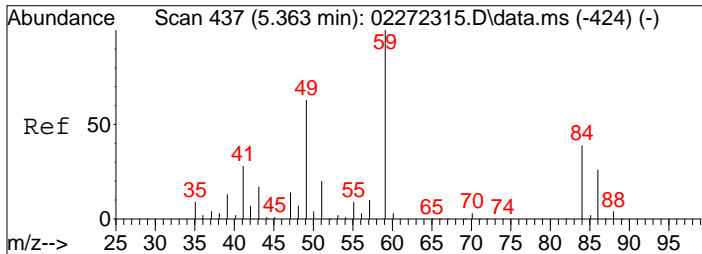
Tgt Ion: 101 Resp: 10659
 Ion Ratio Lower Upper
 101 100
 103 65.1 44.0 84.0



#15
 2-Propanol (Isopropanol)
 Concen: 32.96 ng
 RT: 4.86 min Scan# 348
 Delta R.T. -0.017 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

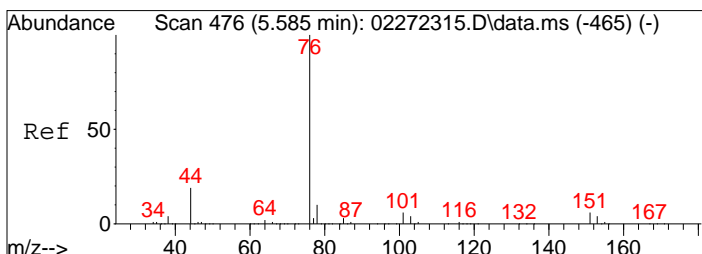
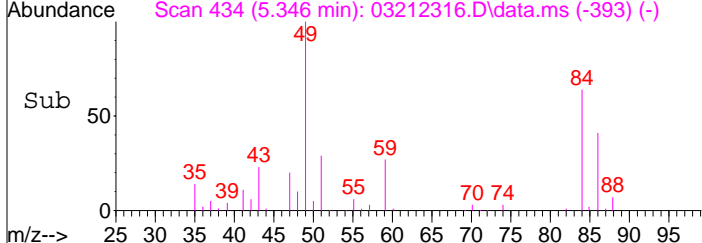
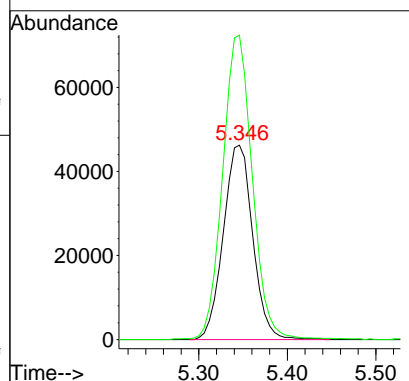
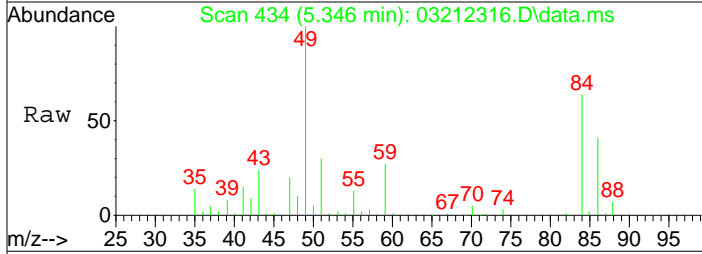
Tgt Ion: 45 Resp: 1576596
 Ion Ratio Lower Upper
 45 100
 43 19.7 1.6 41.6





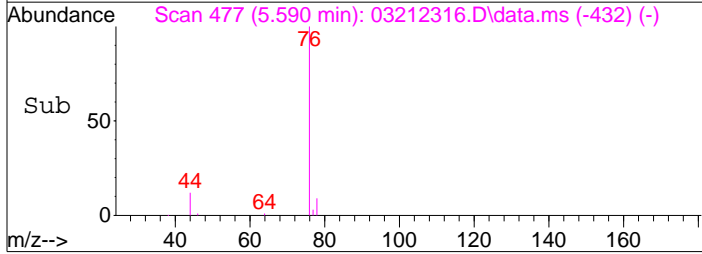
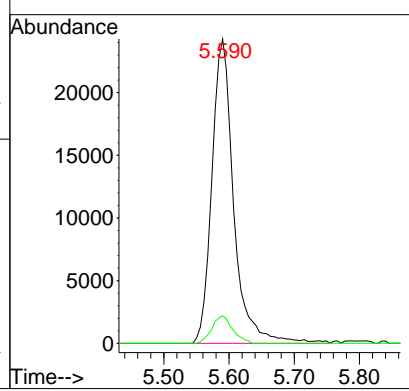
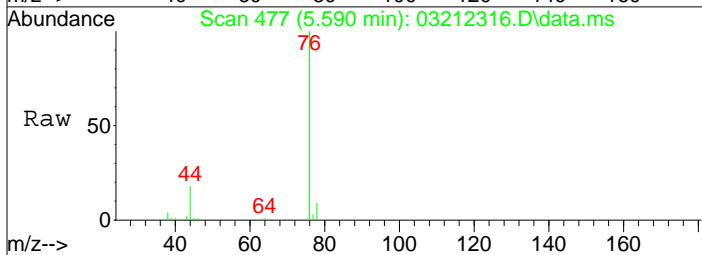
#19
 Methylene Chloride
 Concen: 6.60 ng
 RT: 5.35 min Scan# 434
 Delta R.T. -0.017 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

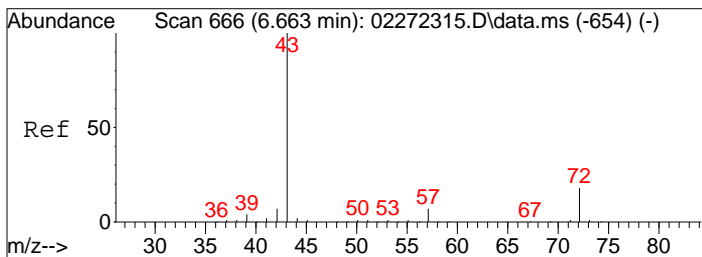
Tgt Ion	Resp	Lower	Upper
84	106713		
84	100		
49	158.5	136.0	186.0



#22
 Carbon Disulfide
 Concen: 0.96 ng
 RT: 5.59 min Scan# 477
 Delta R.T. 0.006 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

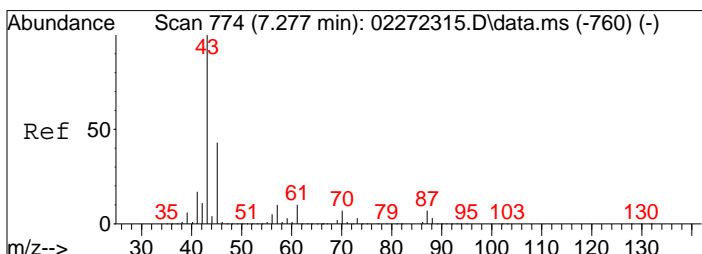
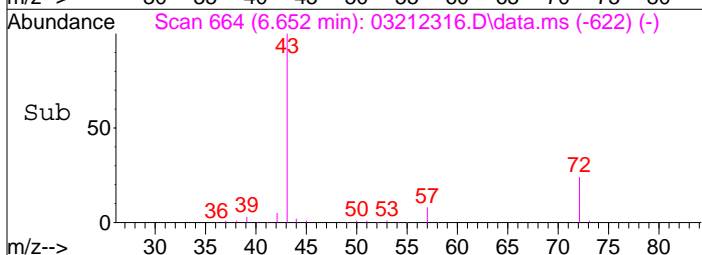
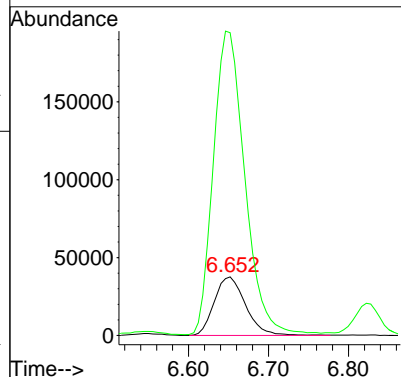
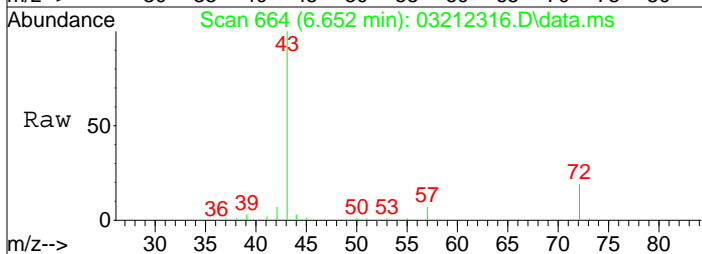
Tgt Ion	Resp	Lower	Upper
76	56440		
76	100		
78	8.6	0.0	29.7





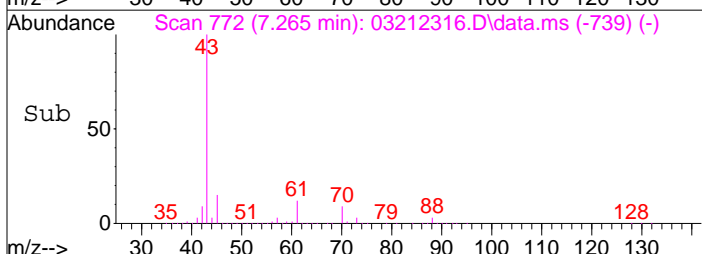
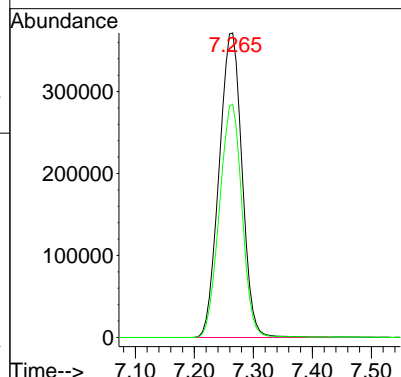
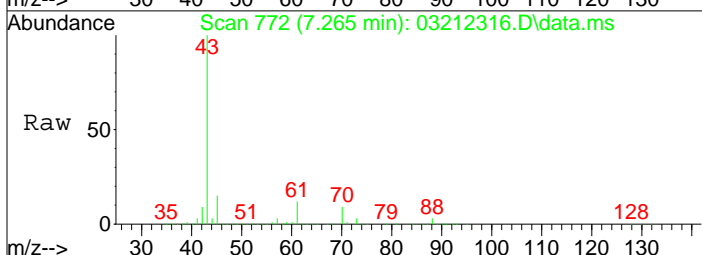
#27
 2-Butanone (MEK)
 Concen: 10.52 ng
 RT: 6.65 min Scan# 664
 Delta R.T. -0.012 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

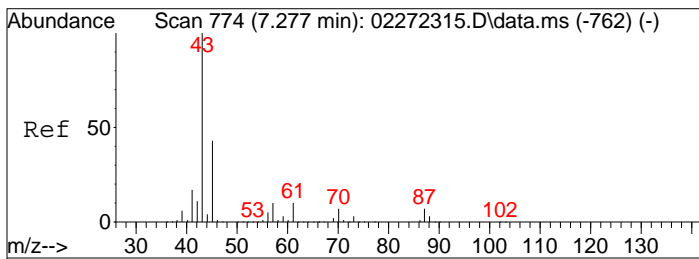
Tgt Ion: 72 Resp: 102743
 Ion Ratio Lower Upper
 72 100
 43 518.2 536.0 576.0#



#30
 Ethyl Acetate
 Concen: 133.86 ng
 RT: 7.27 min Scan# 772
 Delta R.T. -0.012 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

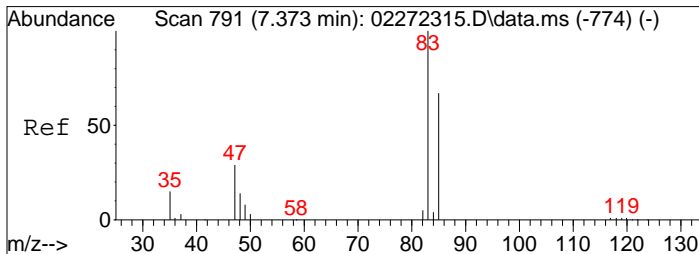
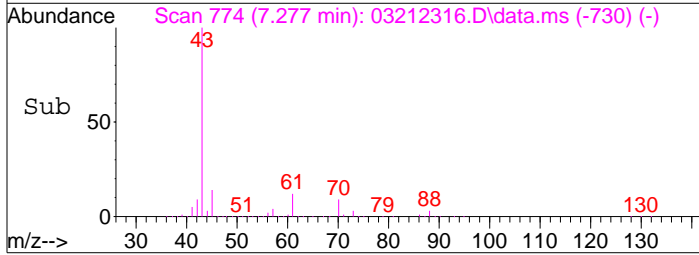
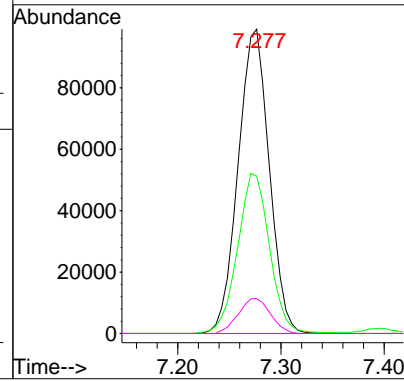
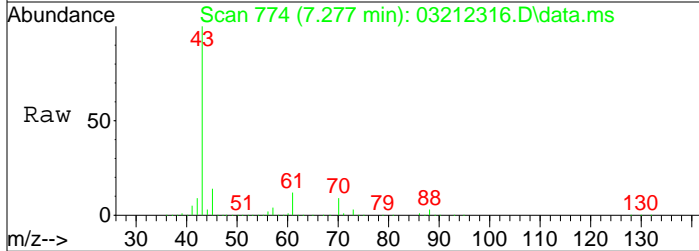
Tgt Ion: 61 Resp: 1005169
 Ion Ratio Lower Upper
 61 100
 70 75.5 55.8 95.8





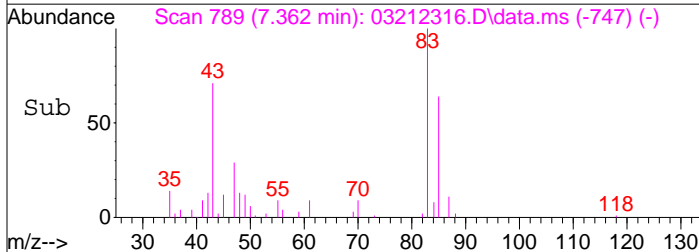
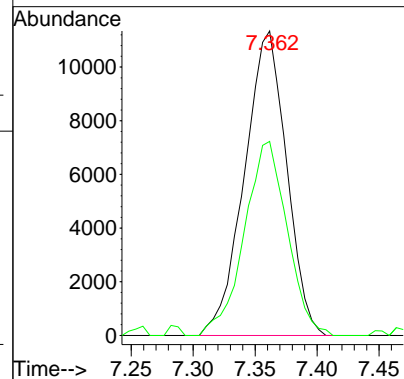
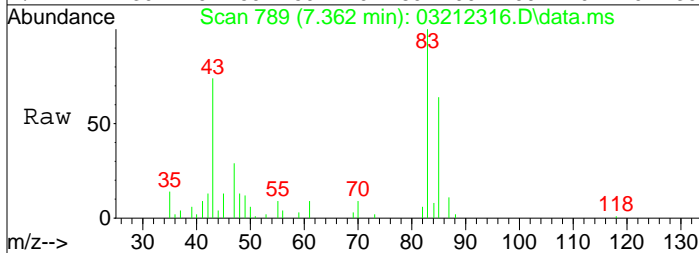
#31
 n-Hexane
 Concen: 6.66 ng
 RT: 7.28 min Scan# 774
 Delta R.T. -0.000 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

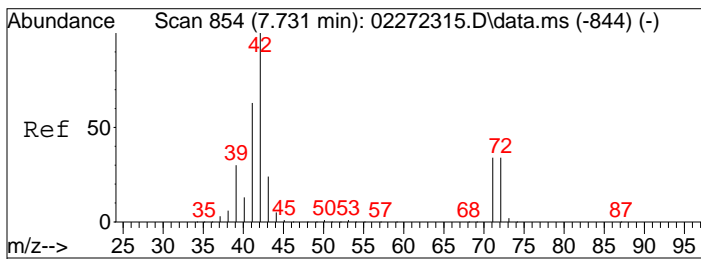
Tgt Ion	Resp	Lower	Upper
57	100		
56	54.1	43.3	64.9
86	11.9	10.2	15.2



#32
 Chloroform
 Concen: 0.78 ng
 RT: 7.36 min Scan# 789
 Delta R.T. -0.012 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

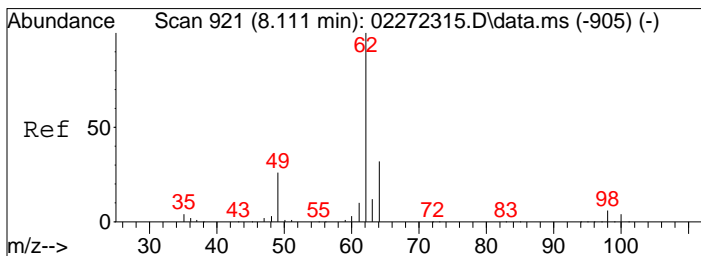
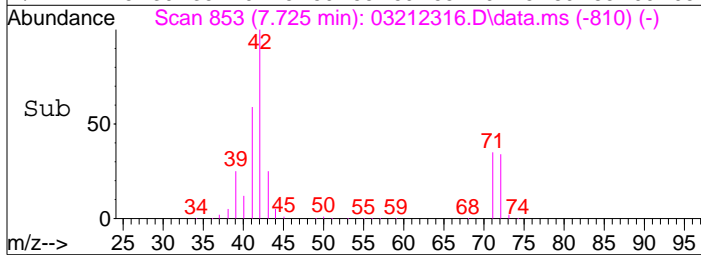
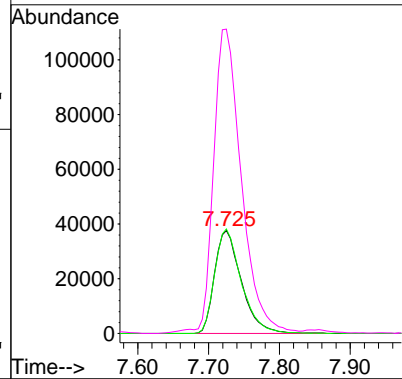
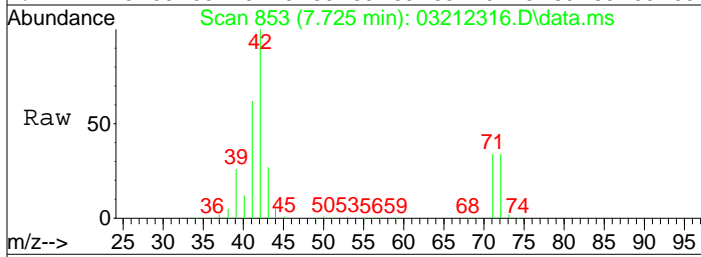
Tgt Ion	Resp	Lower	Upper
83	100		
85	64.8	46.3	86.3





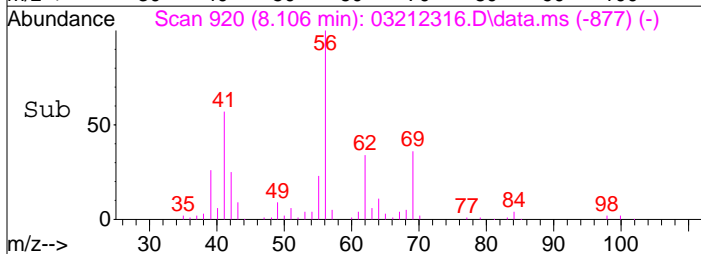
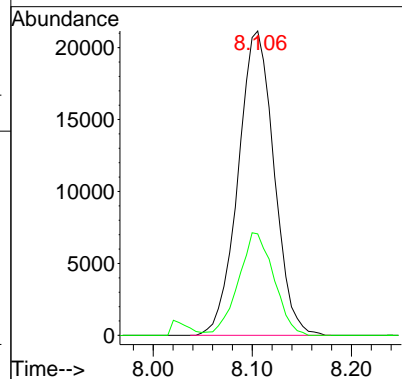
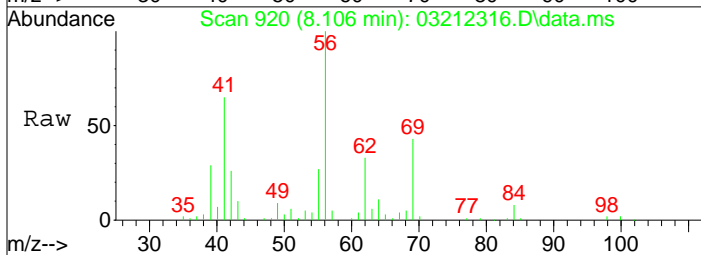
#34
 Tetrahydrofuran (THF)
 Concen: 10.12 ng
 RT: 7.73 min Scan# 853
 Delta R.T. -0.006 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

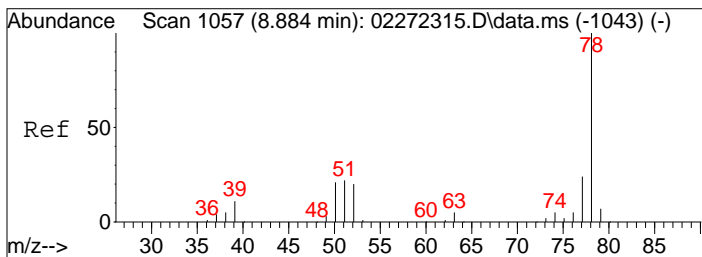
Tgt Ion: 72 Resp: 99036
 Ion Ratio Lower Upper
 72 100
 71 100.6 81.3 121.3
 42 307.1 293.7 333.7



#36
 1,2-Dichloroethane
 Concen: 1.79 ng
 RT: 8.11 min Scan# 920
 Delta R.T. -0.006 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

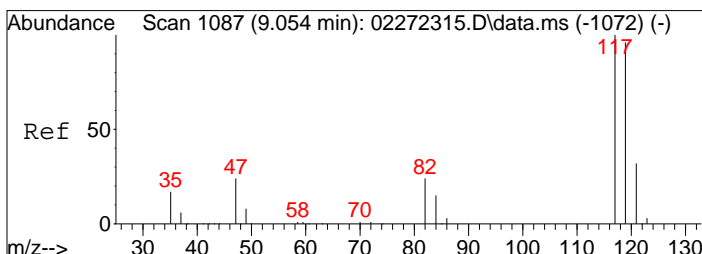
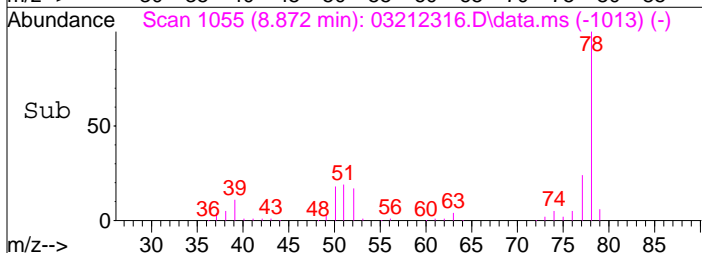
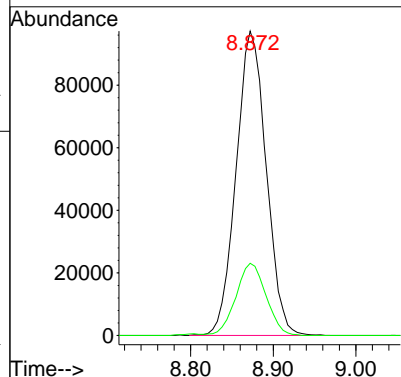
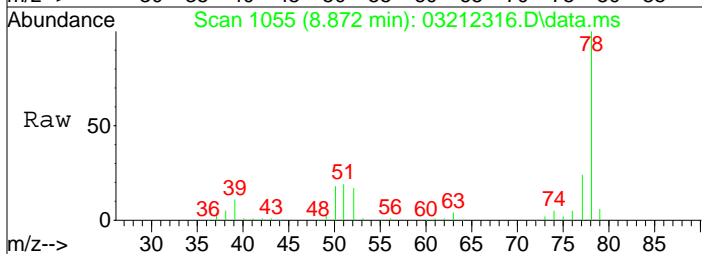
Tgt Ion: 62 Resp: 53292
 Ion Ratio Lower Upper
 62 100
 64 33.3 12.0 52.0





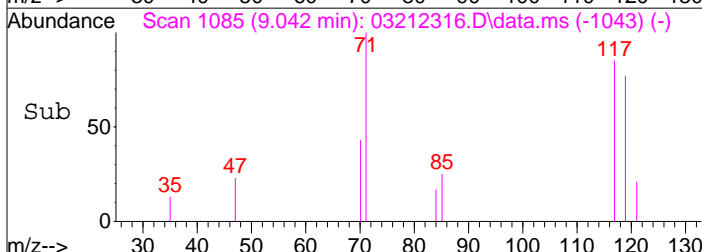
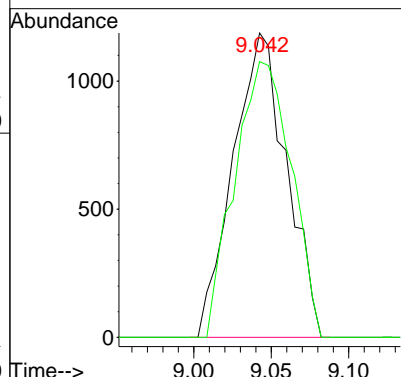
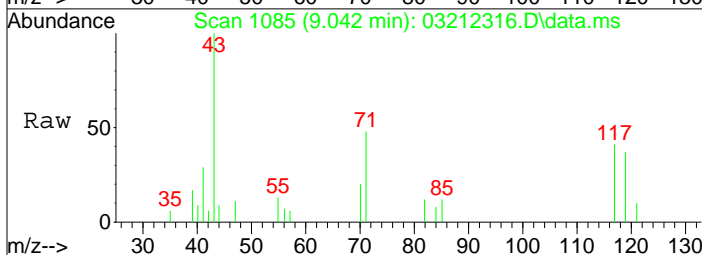
#41
Benzene
Concen: 3.76 ng
RT: 8.87 min Scan# 1055
Delta R.T. -0.011 min
Lab File: 03212316.D
Acq: 21 Mar 2023 13:25

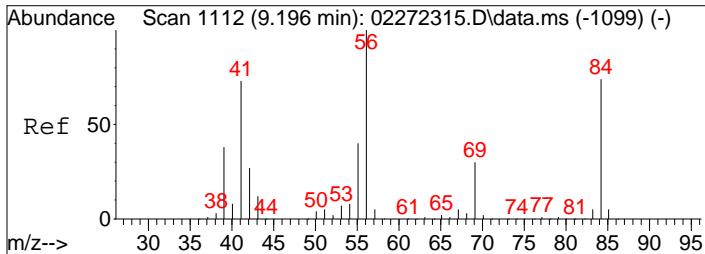
Tgt Ion:	Resp:	Lower	Upper
78	100		
77	23.8	4.0	44.0



#42
Carbon Tetrachloride
Concen: 0.10 ng
RT: 9.04 min Scan# 1085
Delta R.T. -0.011 min
Lab File: 03212316.D
Acq: 21 Mar 2023 13:25

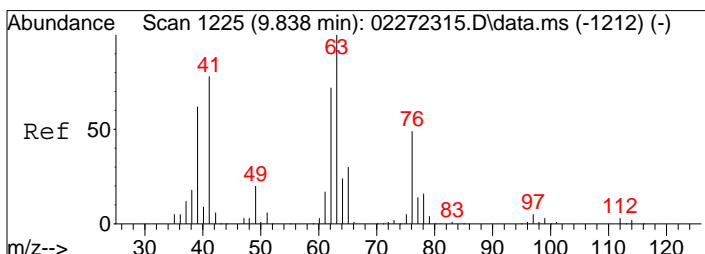
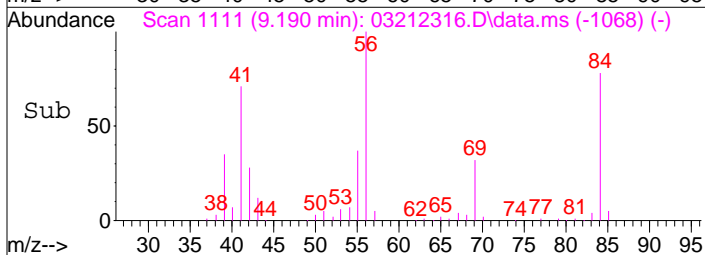
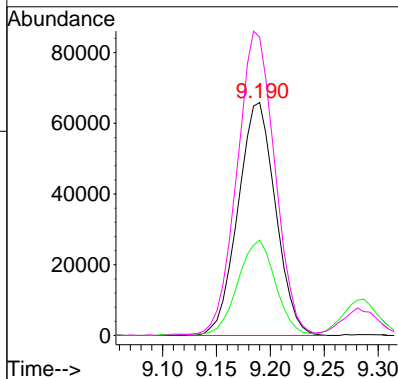
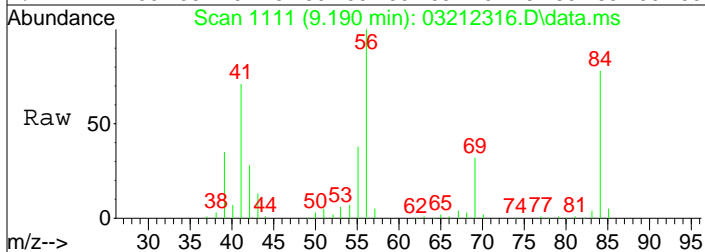
Tgt Ion:	Resp:	Lower	Upper
117	100		
119	96.3	75.5	115.5





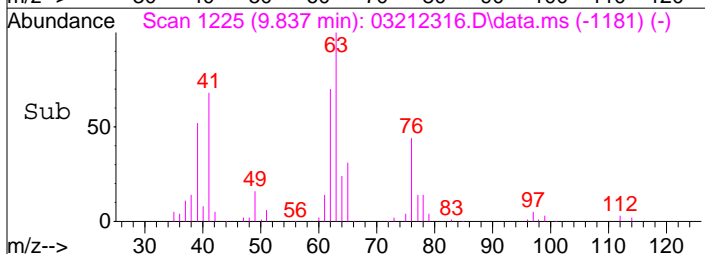
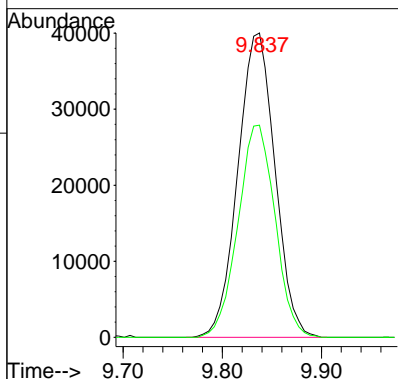
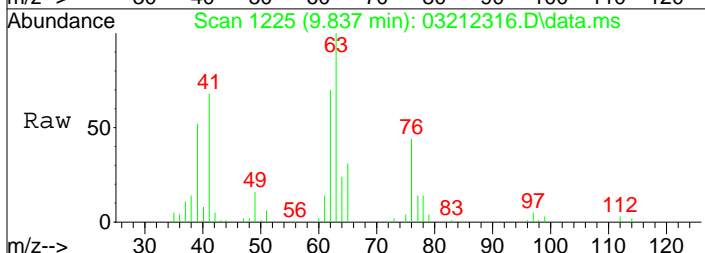
#43
 Cyclohexane
 Concen: 6.56 ng
 RT: 9.19 min Scan# 1111
 Delta R.T. -0.006 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

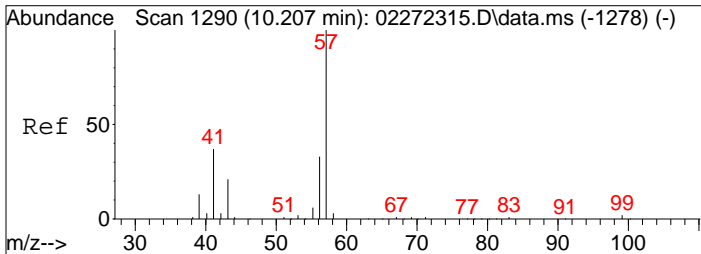
Tgt Ion	Resp	Lower	Upper
84	159816		
84	100		
69	41.6	20.6	60.6
56	131.8	116.1	156.1



#45
 1,2-Dichloropropane
 Concen: 5.65 ng
 RT: 9.84 min Scan# 1225
 Delta R.T. -0.000 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

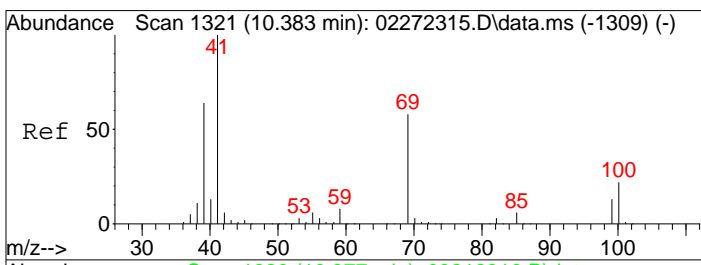
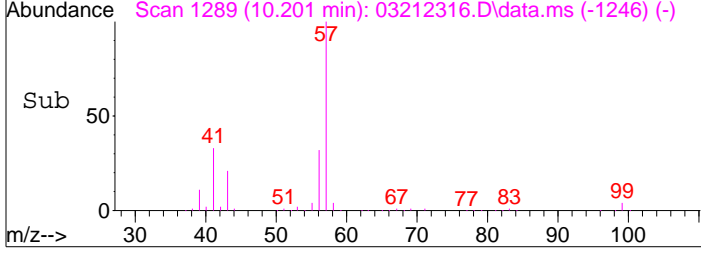
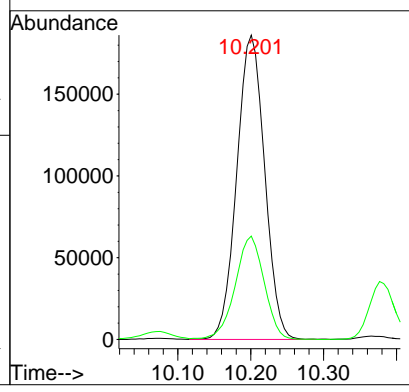
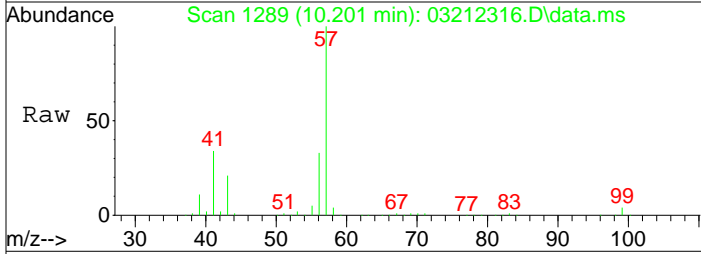
Tgt Ion	Resp	Lower	Upper
63	104137		
63	100		
62	69.6	52.1	92.1





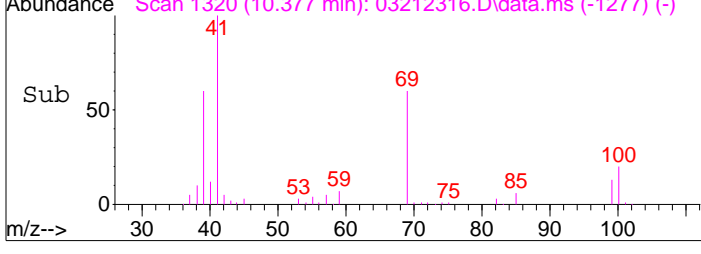
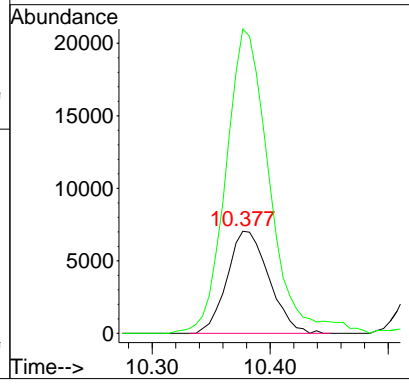
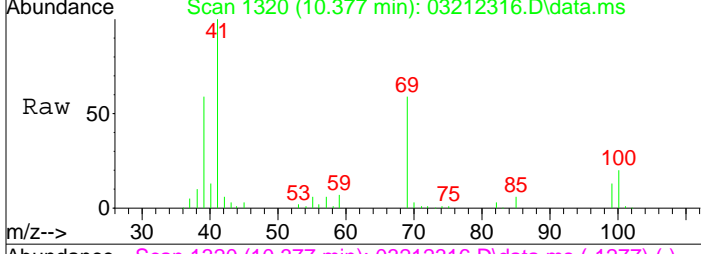
#49
 2,2,4-Trimethylpentane (Isooctane)
 Concen: 6.18 ng
 RT: 10.20 min Scan# 1289
 Delta R.T. -0.006 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

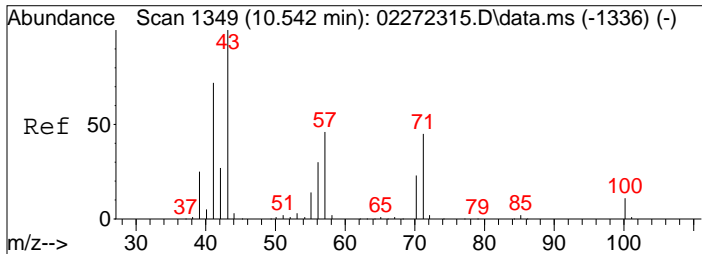
Tgt Ion	Resp	Lower	Upper
57	100		
41	35.3	17.1	57.1



#50
 Methyl Methacrylate
 Concen: 2.80 ng
 RT: 10.38 min Scan# 1320
 Delta R.T. -0.006 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

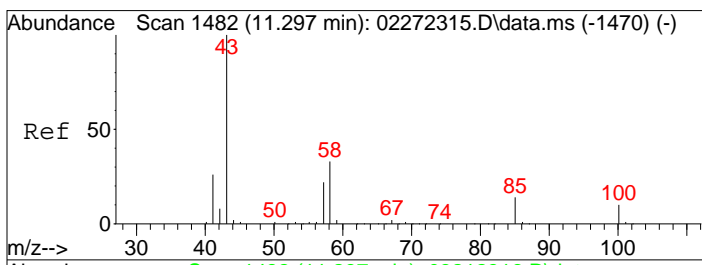
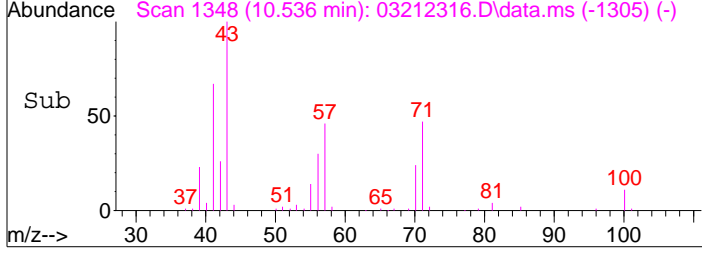
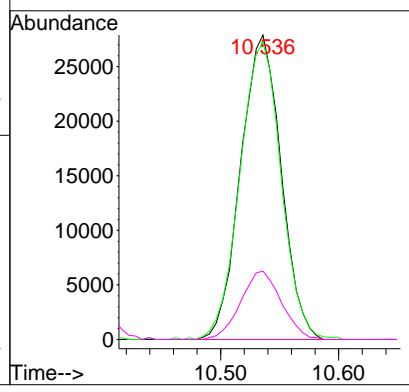
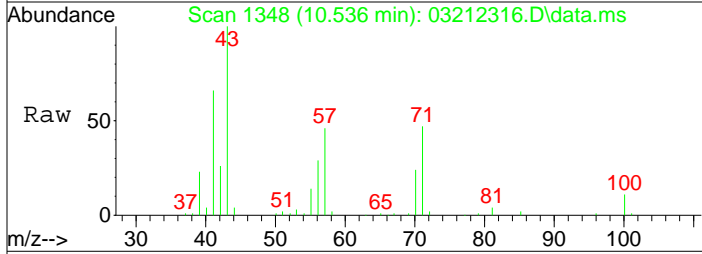
Tgt Ion	Resp	Lower	Upper
100	100		
69	310.3	241.7	281.7#





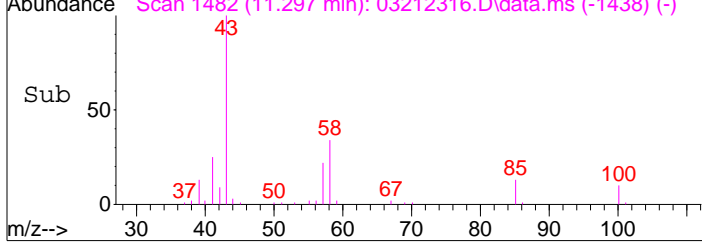
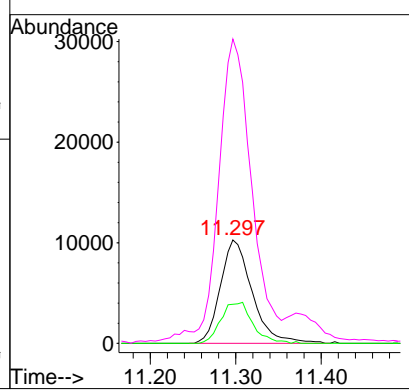
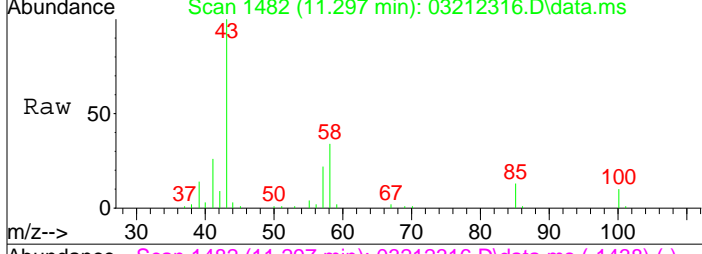
#51
 n-Heptane
 Concen: 4.07 ng
 RT: 10.54 min Scan# 1348
 Delta R.T. -0.006 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

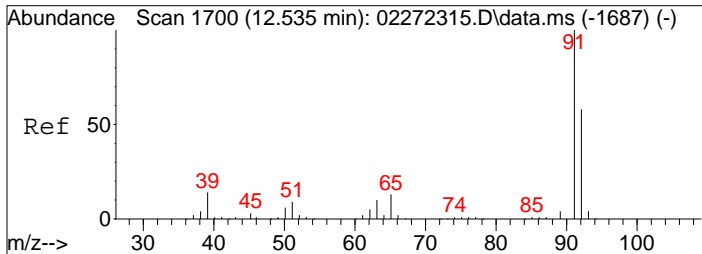
Tgt Ion	Resp	Lower	Upper
71	100		
57	99.4	84.6	124.6
100	22.6	5.8	45.8



#53
 4-Methyl-2-pentanone
 Concen: 1.66 ng
 RT: 11.30 min Scan# 1482
 Delta R.T. -0.000 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

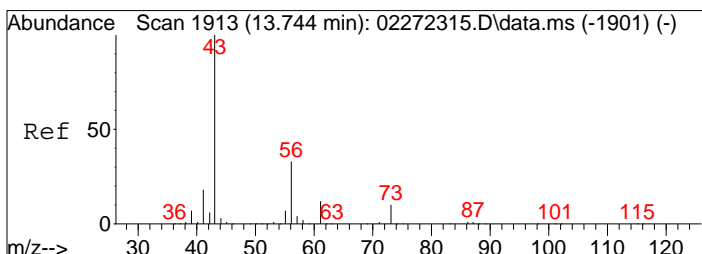
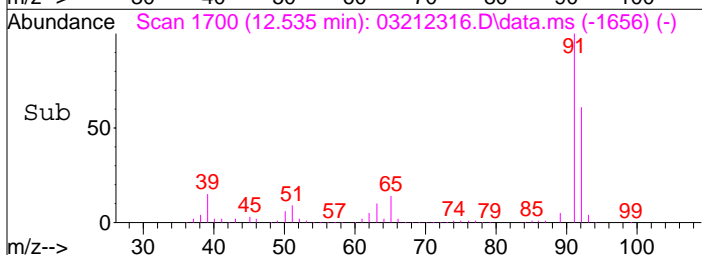
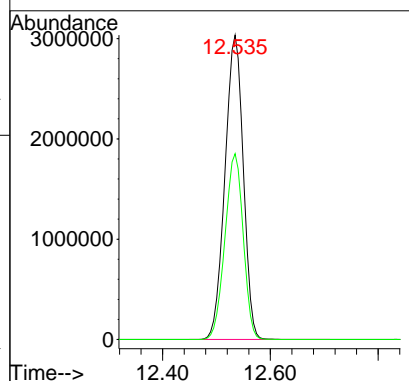
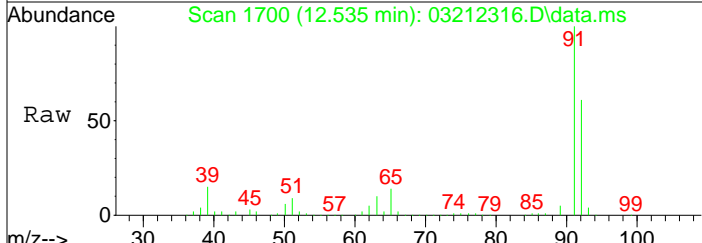
Tgt Ion	Resp	Lower	Upper
58	100		
85	39.6	35.7	53.5
43	313.6	242.9	364.3





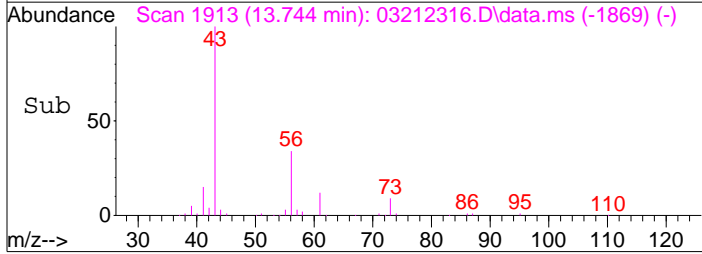
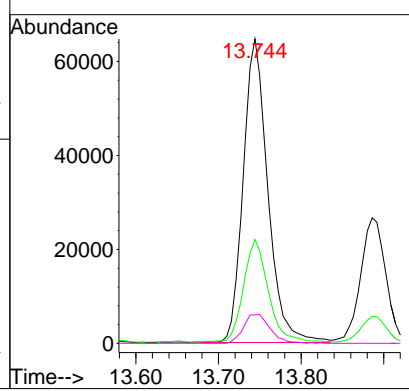
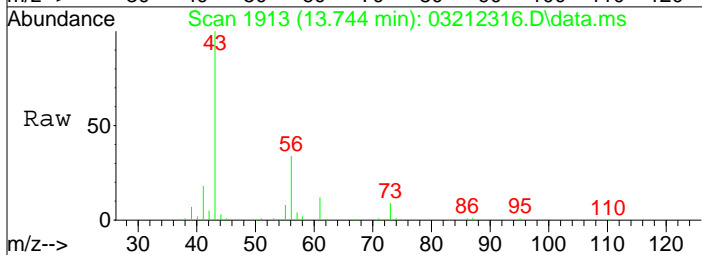
#58
 Toluene
 Concen: 100.79 ng
 RT: 12.53 min Scan# 1700
 Delta R.T. -0.000 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

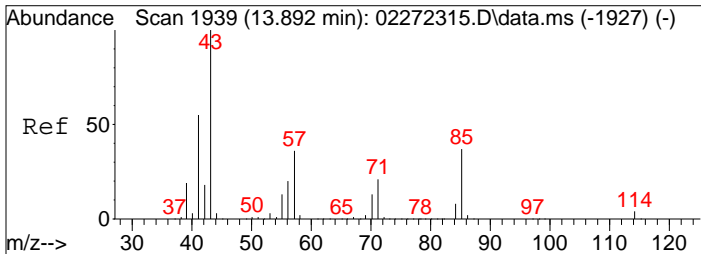
Tgt Ion	Resp	Lower	Upper
91	100		
92	60.8	37.6	77.6



#62
 n-Butyl Acetate
 Concen: 2.69 ng
 RT: 13.74 min Scan# 1913
 Delta R.T. -0.000 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

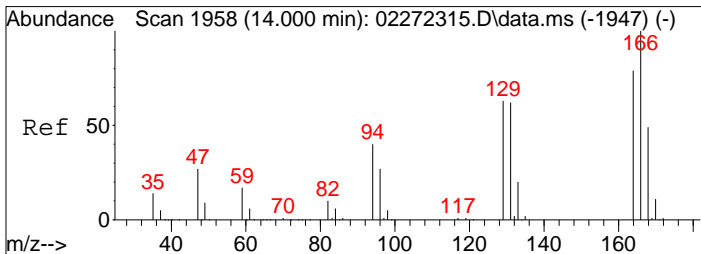
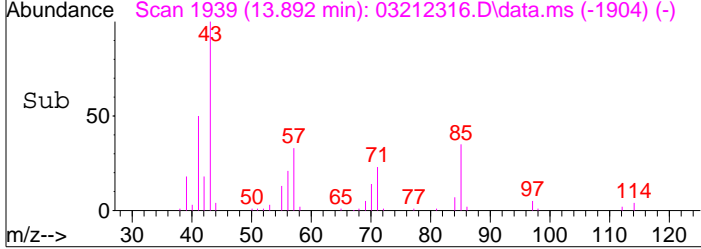
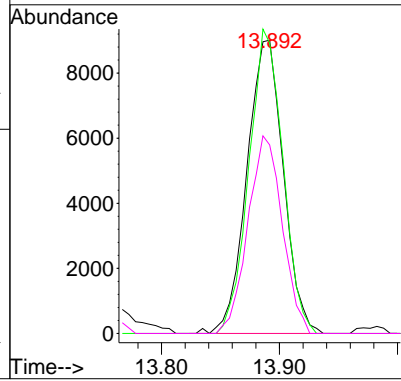
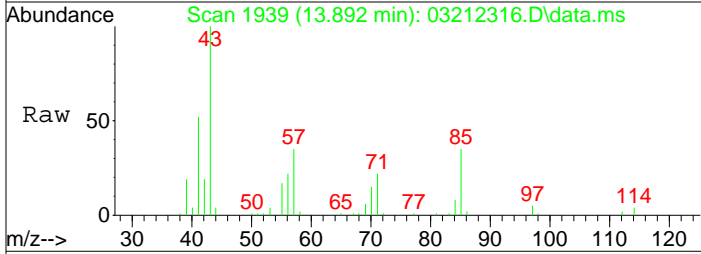
Tgt Ion	Resp	Lower	Upper
43	100		
56	35.0	13.1	53.1
73	10.4	0.0	29.9





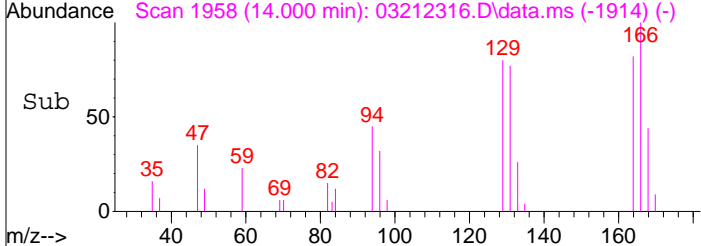
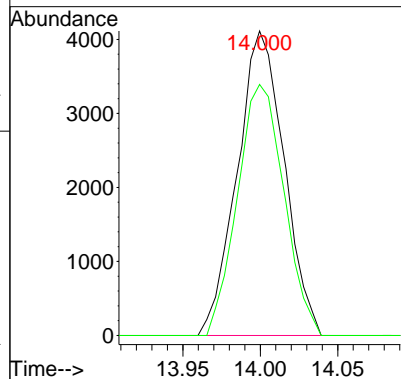
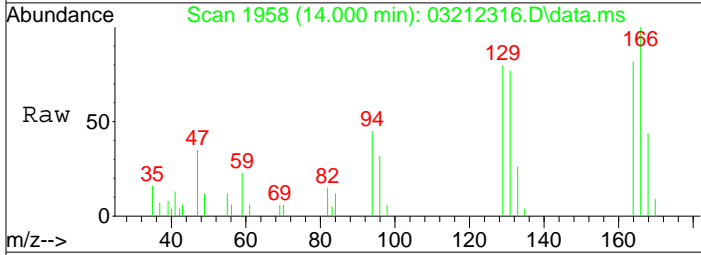
#63
 n-Octane
 Concen: 1.25 ng
 RT: 13.89 min Scan# 1939
 Delta R.T. -0.000 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

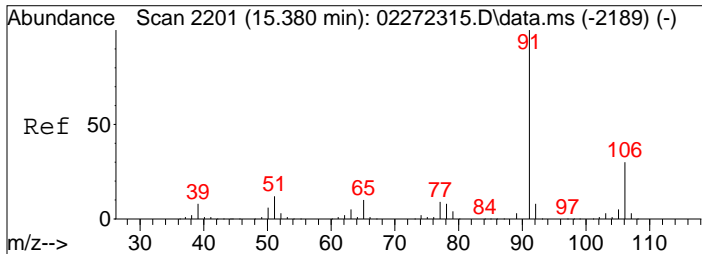
Tgt Ion:	Resp:	Lower	Upper
57	19342		
57	100		
85	96.5	82.4	123.6
71	63.3	47.8	71.6



#64
 Tetrachloroethene
 Concen: 0.35 ng
 RT: 14.00 min Scan# 1958
 Delta R.T. -0.000 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

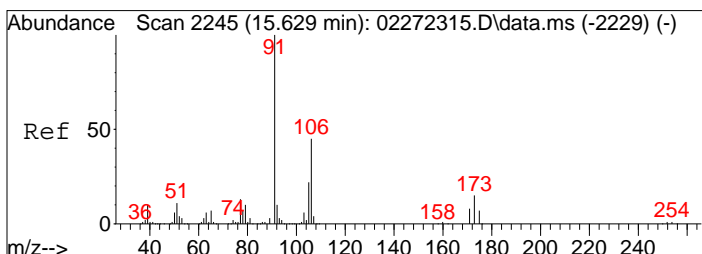
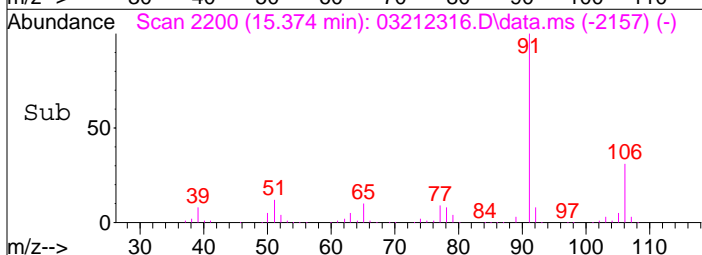
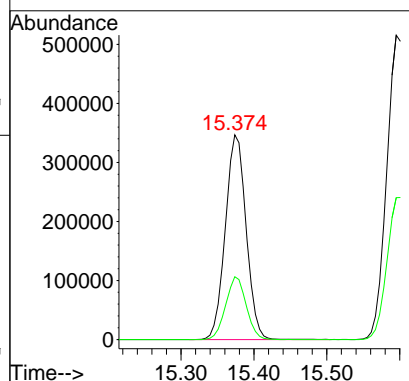
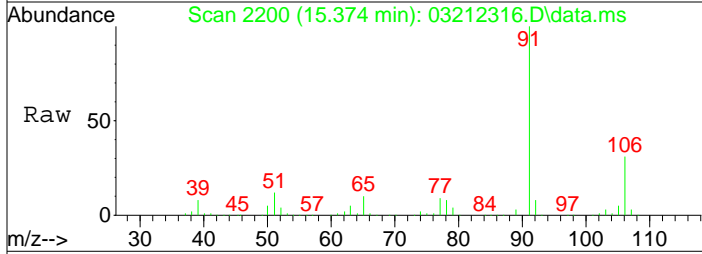
Tgt Ion:	Resp:	Lower	Upper
166	8673		
166	100		
164	81.7	58.6	98.6





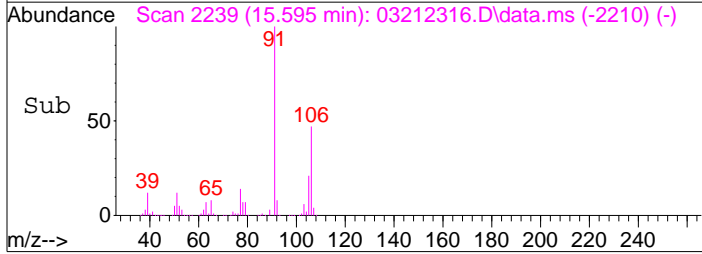
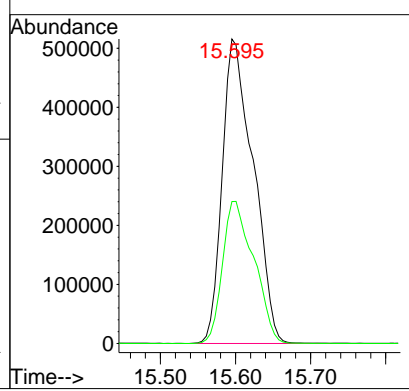
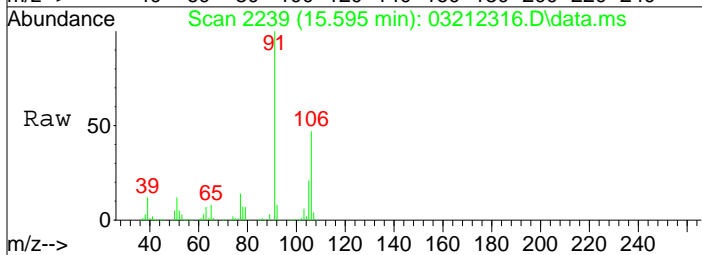
#66
 Ethylbenzene
 Concen: 8.41 ng
 RT: 15.37 min Scan# 2200
 Delta R.T. -0.006 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

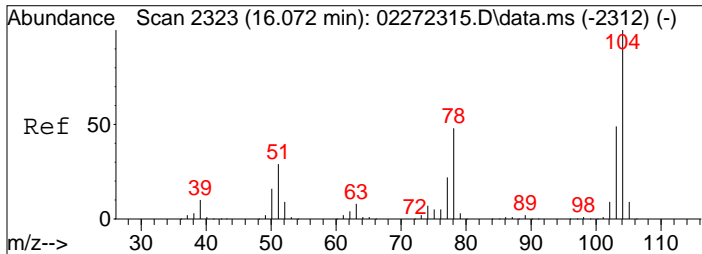
Tgt Ion:	91	Resp:	685780
Ion Ratio	91	100	106
Lower	30.2	10.3	50.3
Upper			



#67
 m- & p-Xylenes
 Concen: 22.10 ng
 RT: 15.60 min Scan# 2239
 Delta R.T. -0.034 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

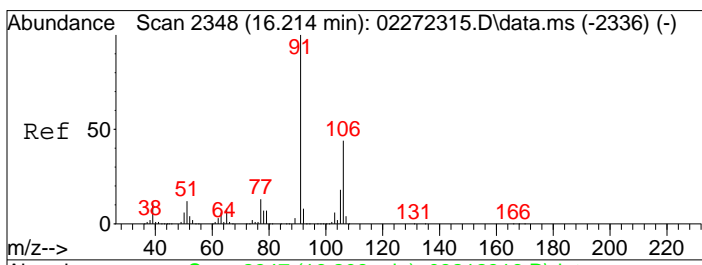
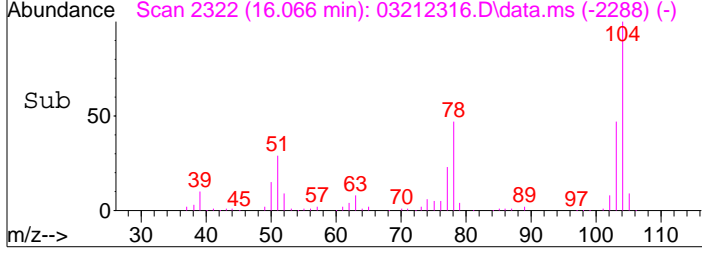
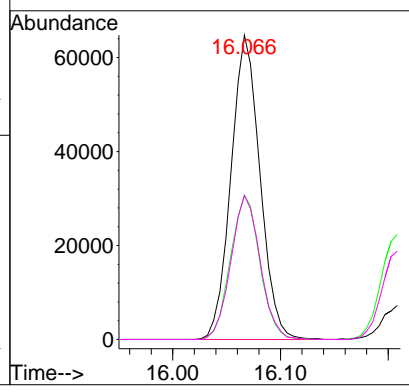
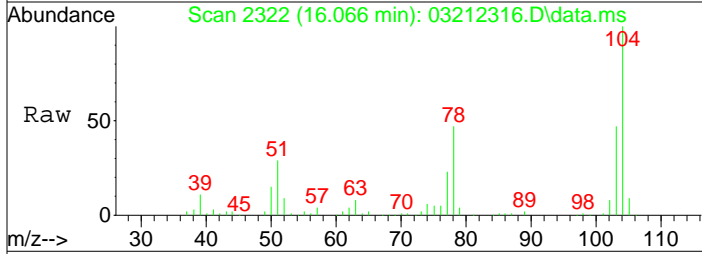
Tgt Ion:	91	Resp:	1479260
Ion Ratio	91	100	106
Lower	47.1	25.0	65.0
Upper			





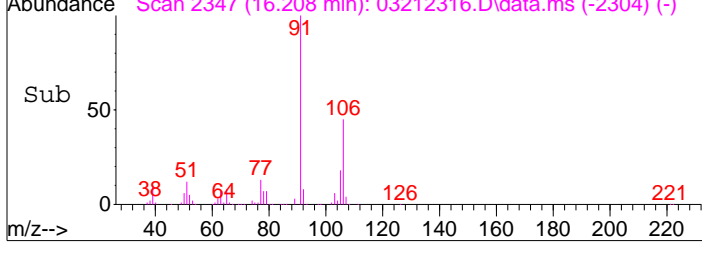
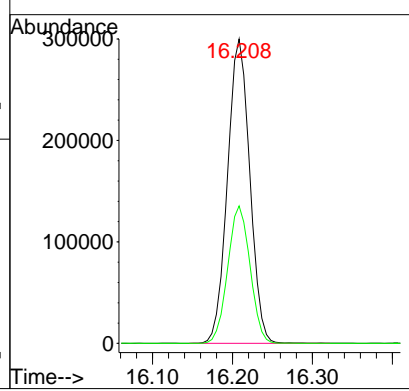
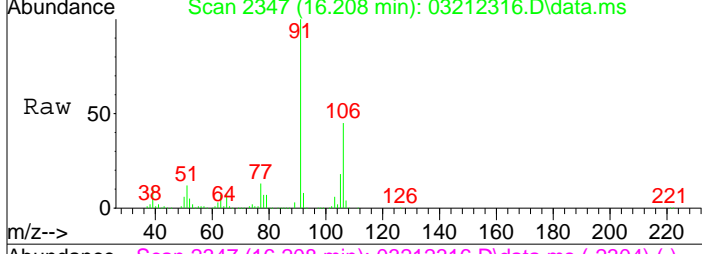
#69
 Styrene
 Concen: 2.87 ng
 RT: 16.07 min Scan# 2322
 Delta R.T. -0.006 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

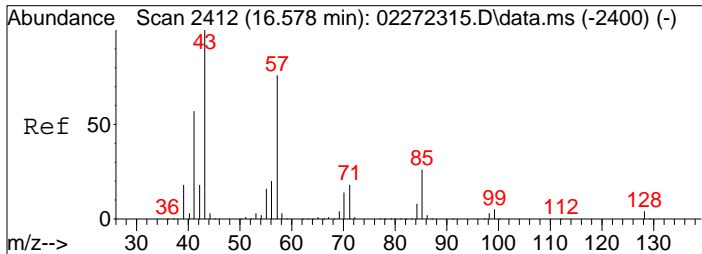
Tgt Ion	Resp	Lower	Upper
104	121303		
78	48.0	29.2	69.2
103	47.6	29.2	69.2



#70
 o-Xylene
 Concen: 8.83 ng
 RT: 16.21 min Scan# 2347
 Delta R.T. -0.006 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

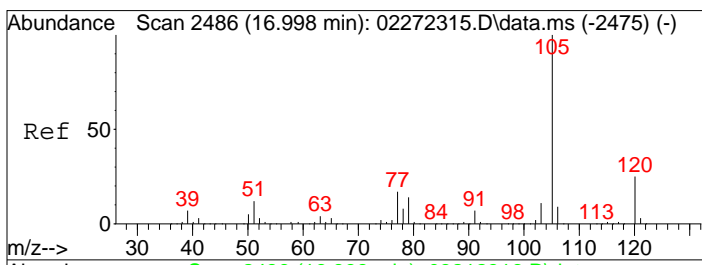
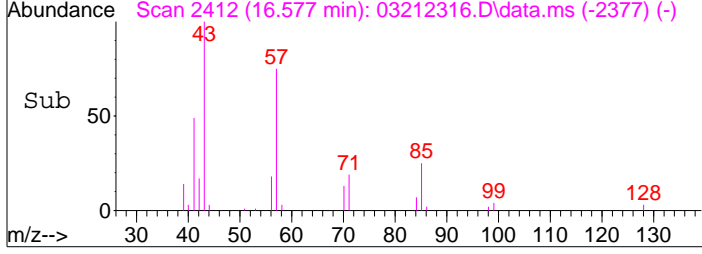
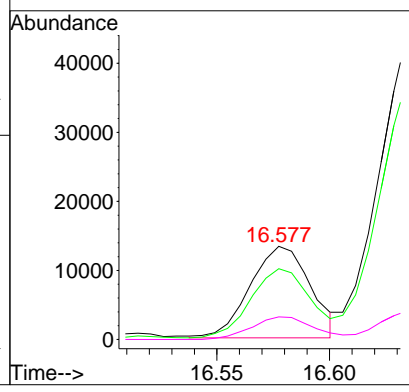
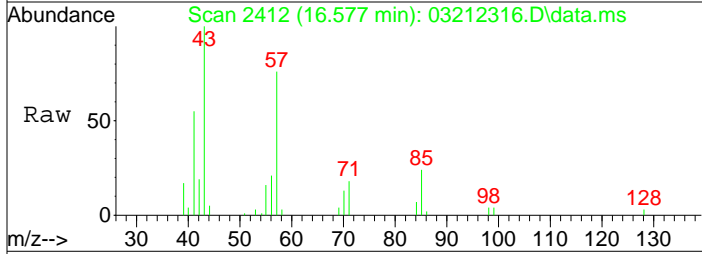
Tgt Ion	Resp	Lower	Upper
91	582207		
106	45.1	24.0	64.0





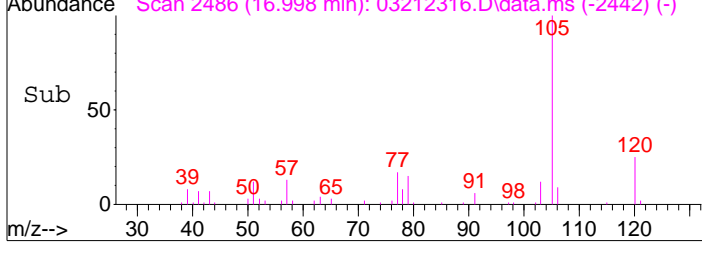
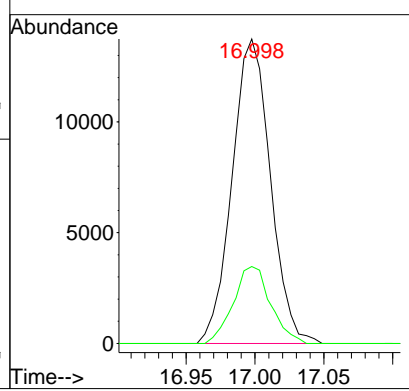
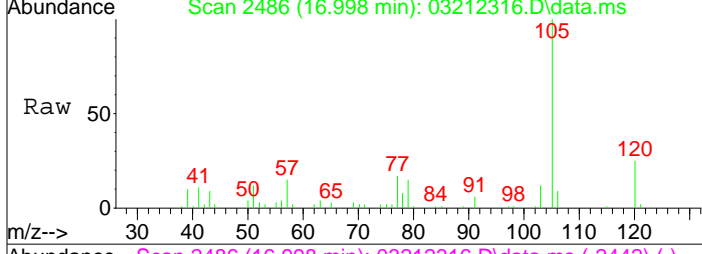
#71
 n-Nonane
 Concen: 0.59 ng
 RT: 16.58 min Scan# 2412
 Delta R.T. -0.000 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

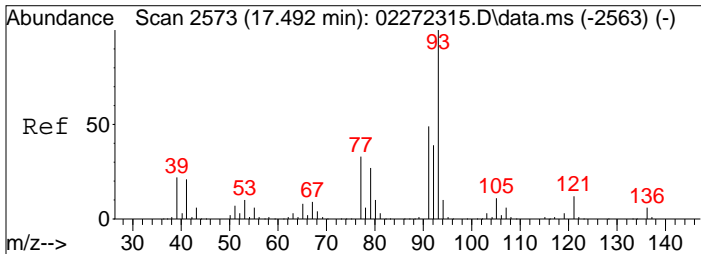
Tgt Ion	Resp	Lower	Upper
43	100		
57	75.3	56.2	96.2
85	25.5	6.1	46.1



#74
 Cumene
 Concen: 0.33 ng
 RT: 17.00 min Scan# 2486
 Delta R.T. -0.000 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

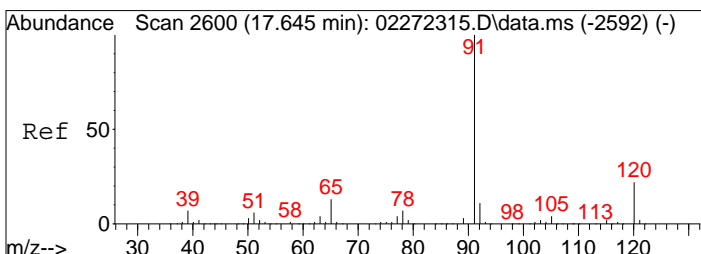
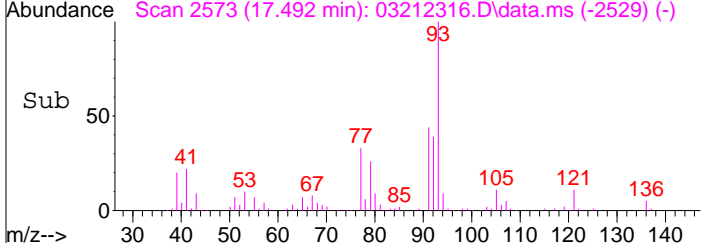
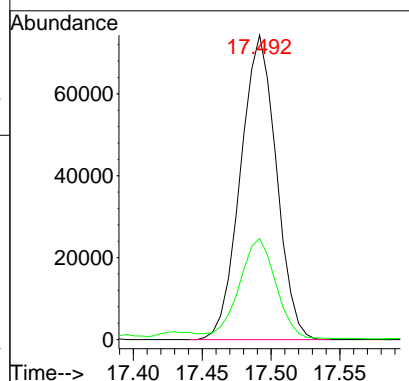
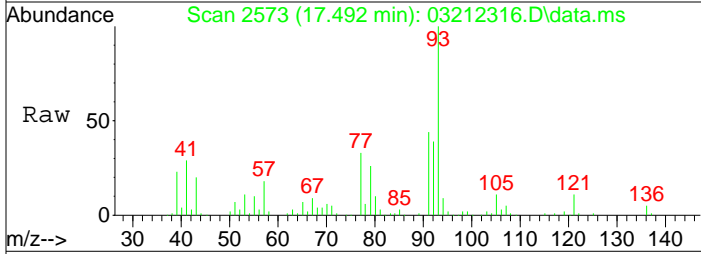
Tgt Ion	Resp	Lower	Upper
105	100		
120	24.6	4.6	44.6





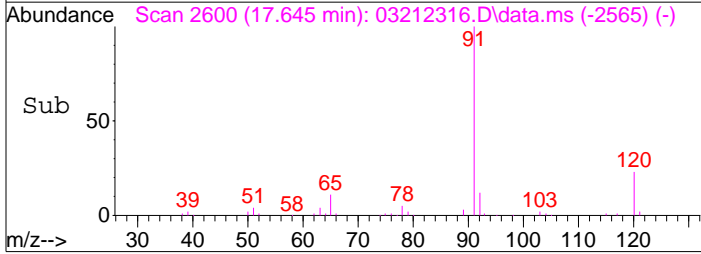
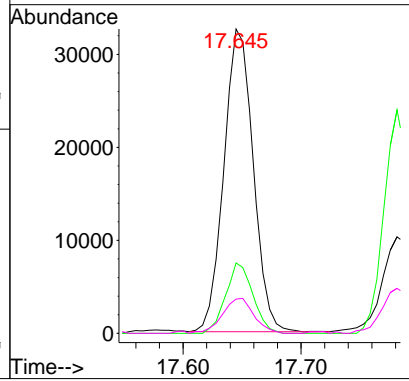
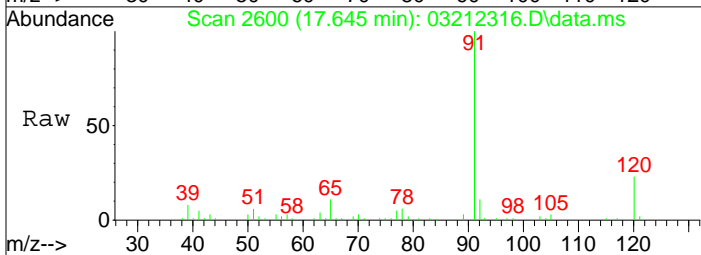
#75
 alpha-Pinene
 Concen: 3.91 ng
 RT: 17.49 min Scan# 2573
 Delta R.T. -0.000 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

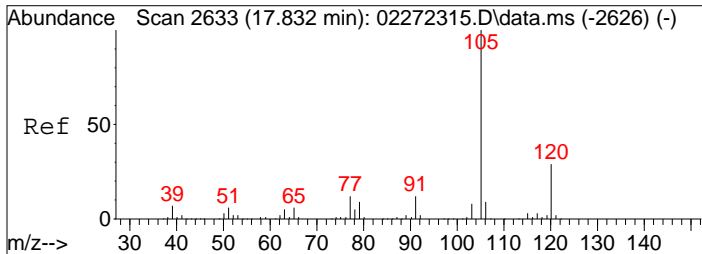
Tgt Ion	Resp	Lower	Upper
93	134105		
77	34.1	14.2	54.2



#76
 n-Propylbenzene
 Concen: 0.58 ng
 RT: 17.64 min Scan# 2600
 Delta R.T. -0.000 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

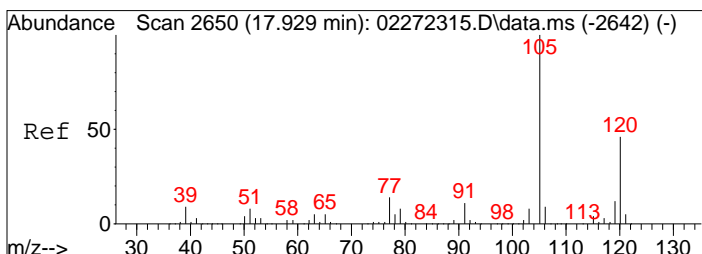
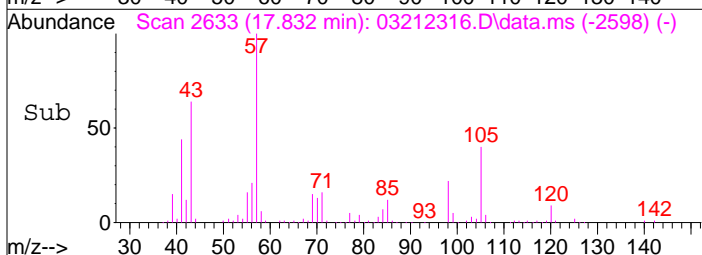
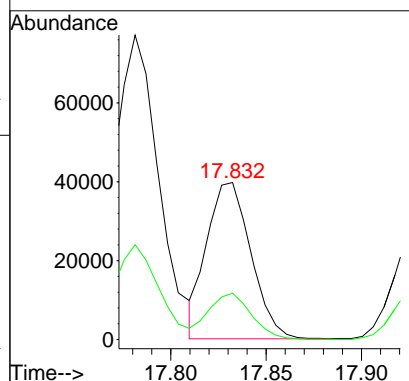
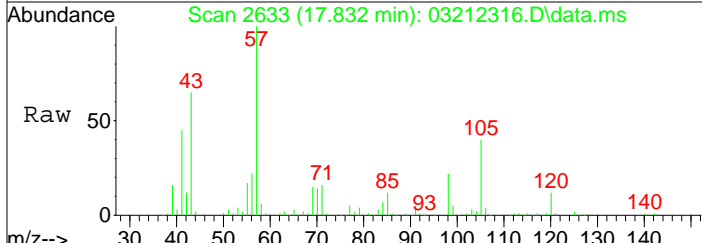
Tgt Ion	Resp	Lower	Upper
91	56327		
120	21.5	2.0	42.0
65	12.4	0.0	32.3





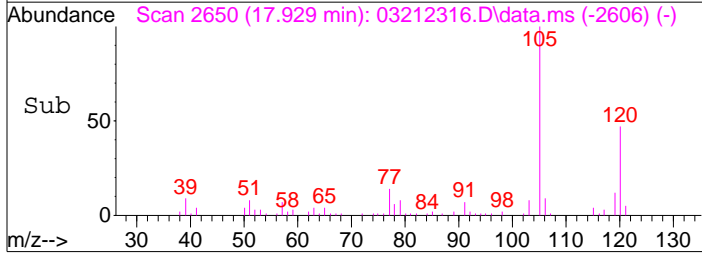
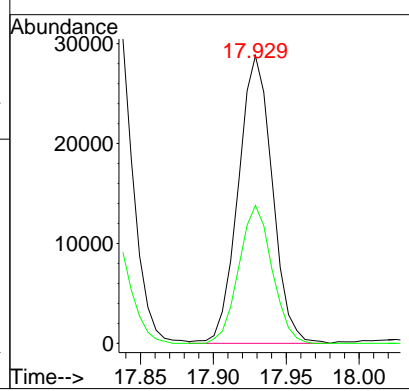
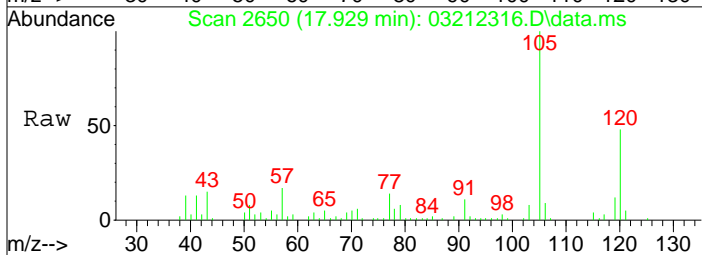
#78
 4-Ethyltoluene
 Concen: 0.83 ng
 RT: 17.83 min Scan# 2633
 Delta R.T. -0.000 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

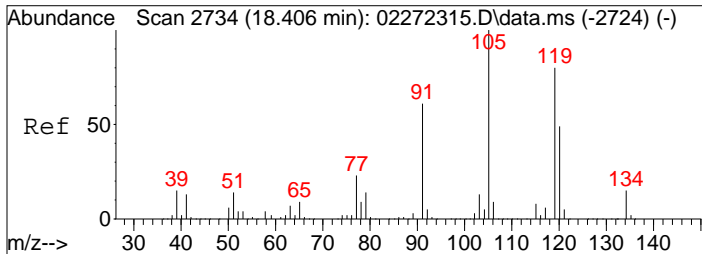
Tgt Ion	Resp	Lower	Upper
105	100		
120	29.0	8.5	48.5



#79
 1,3,5-Trimethylbenzene
 Concen: 0.68 ng
 RT: 17.93 min Scan# 2650
 Delta R.T. -0.000 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

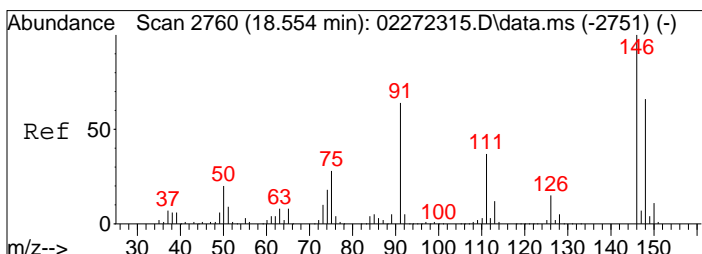
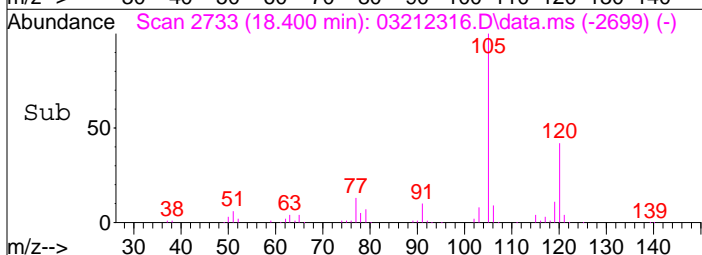
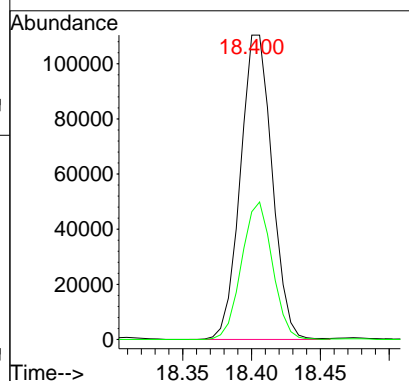
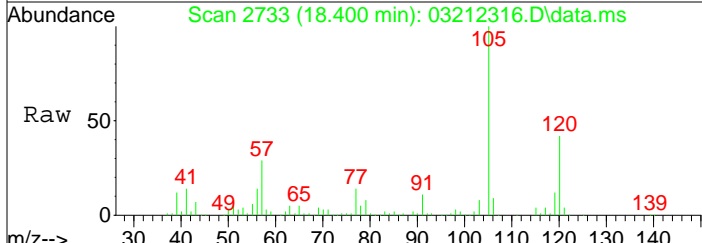
Tgt Ion	Resp	Lower	Upper
105	100		
120	46.8	25.5	65.5





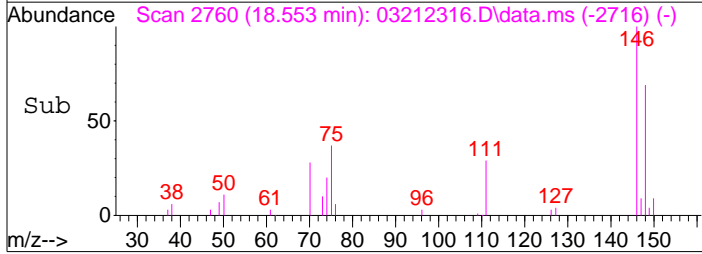
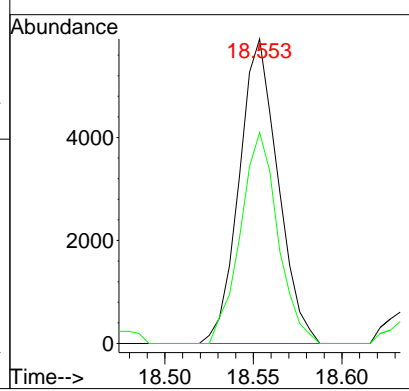
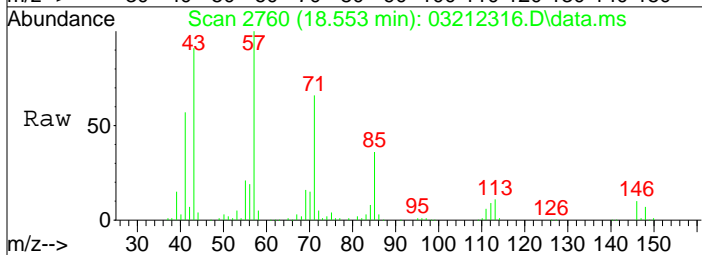
#82
 1,2,4-Trimethylbenzene
 Concen: 2.52 ng
 RT: 18.40 min Scan# 2733
 Delta R.T. -0.006 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

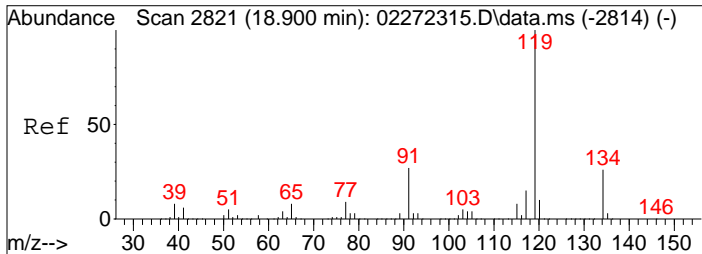
Tgt Ion:105 Resp: 176863
 Ion Ratio Lower Upper
 105 100
 120 43.8 30.5 70.5



#85
 1,3-Dichlorobenzene
 Concen: 0.22 ng
 RT: 18.55 min Scan# 2760
 Delta R.T. -0.000 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

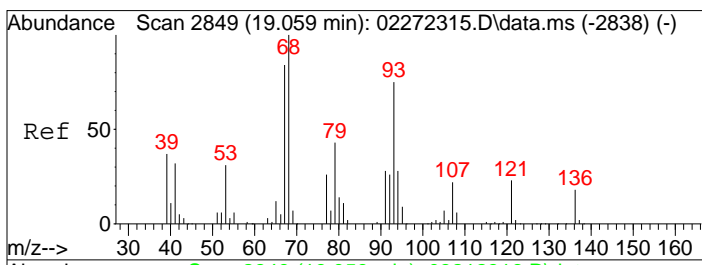
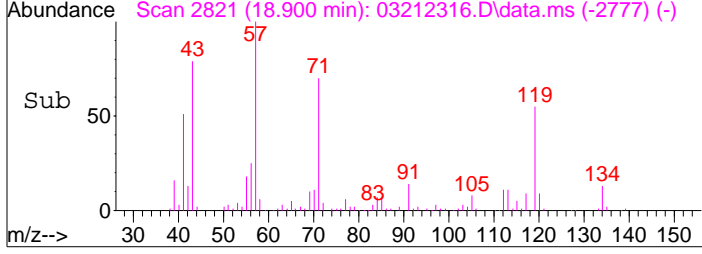
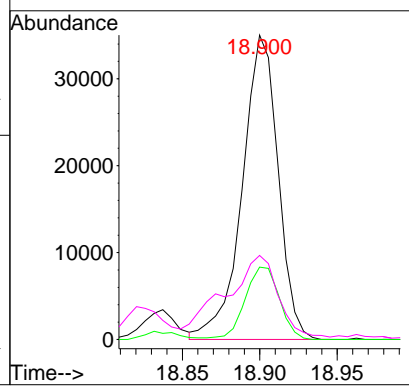
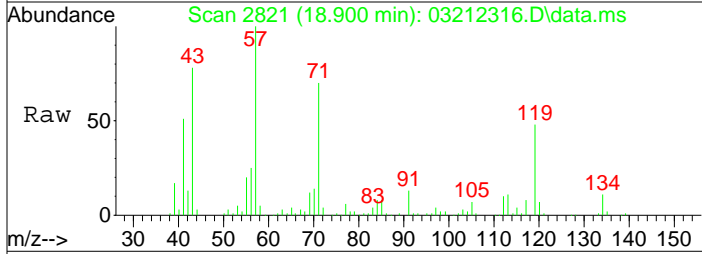
Tgt Ion:146 Resp: 9004
 Ion Ratio Lower Upper
 146 100
 148 67.0 46.0 86.0





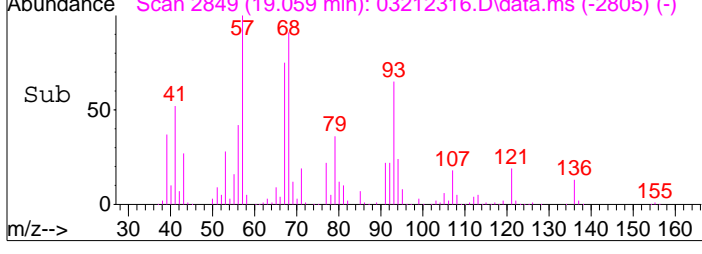
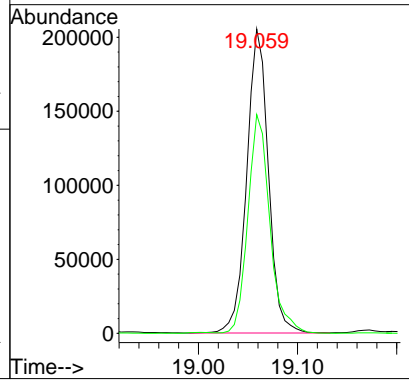
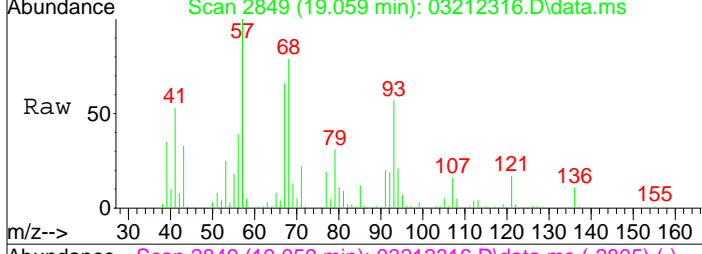
#88
 4-Isopropyltoluene (p-Cymene)
 Concen: 0.71 ng
 RT: 18.90 min Scan# 2821
 Delta R.T. -0.000 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

Tgt Ion	Resp	Lower	Upper
119	100		
134	22.8	5.7	45.7
91	39.2	6.8	46.8



#91
 d-Limonene
 Concen: 13.23 ng
 RT: 19.06 min Scan# 2849
 Delta R.T. -0.000 min
 Lab File: 03212316.D
 Acq: 21 Mar 2023 13:25

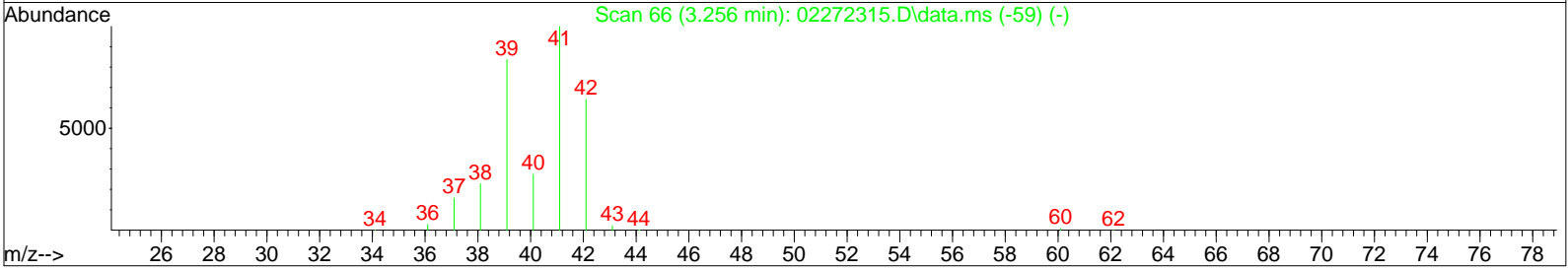
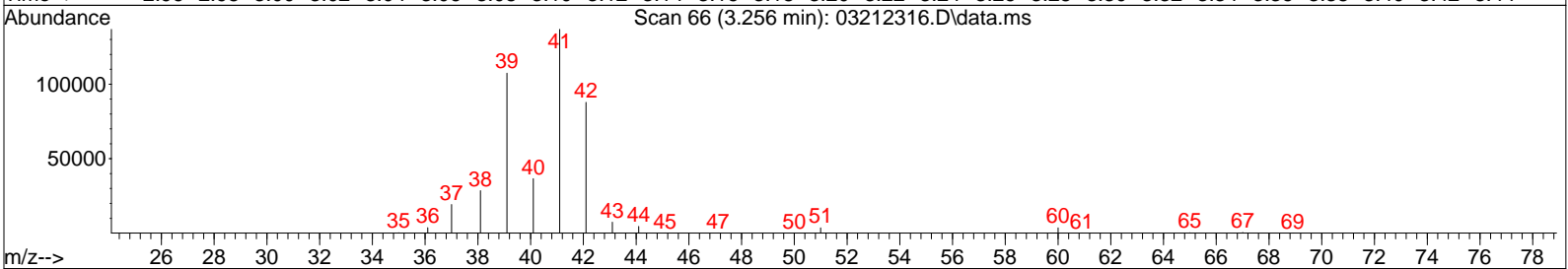
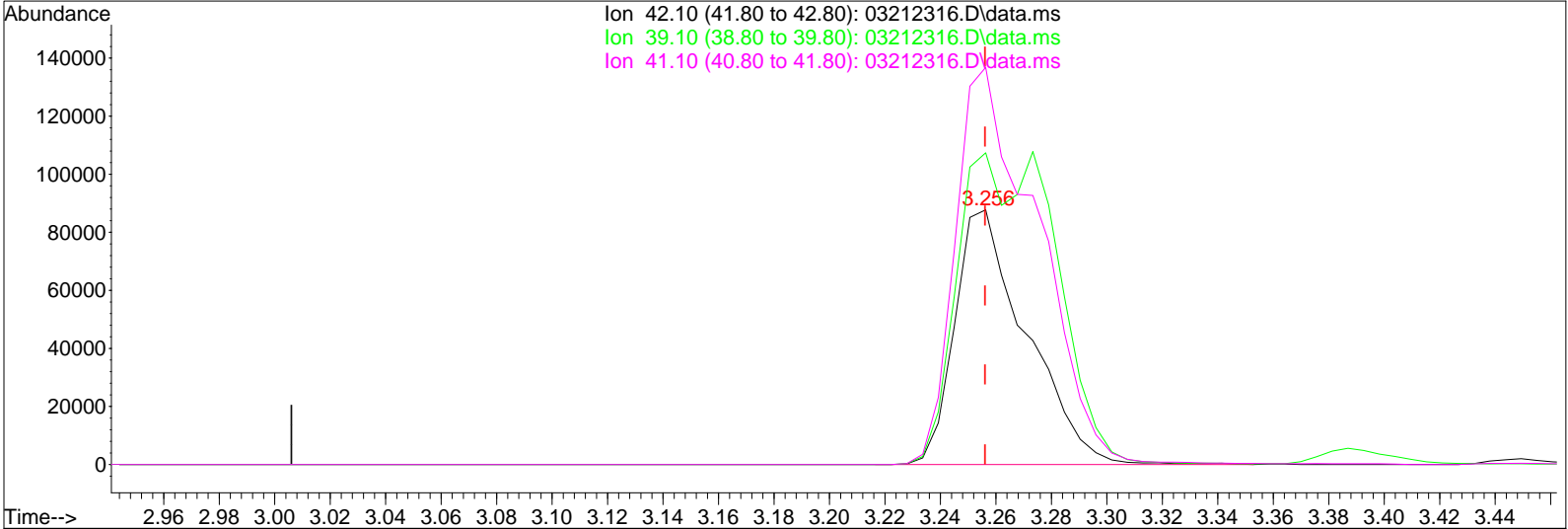
Tgt Ion	Resp	Lower	Upper
68	100		
93	73.2	55.7	95.7



Data File : I:\MS09\DATA\2023 03\21\03212316.D
 Acq On : 21 Mar 2023 13:25
 Sample : P2301184-007dup (300ml)
 Misc : S35-02212305

Vial: 10
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 21 13:48:03 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



TIC: 03212316.D\data.ms

(2) Propene (T)

3.256min (+0.000) 6.94ng

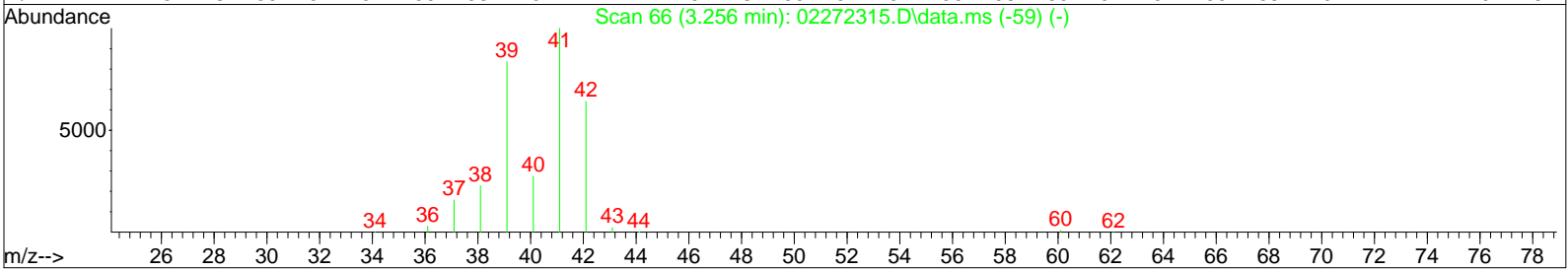
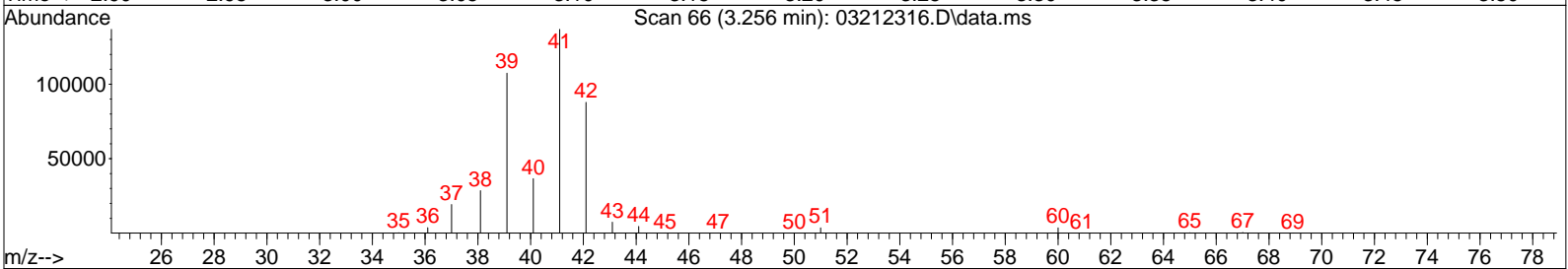
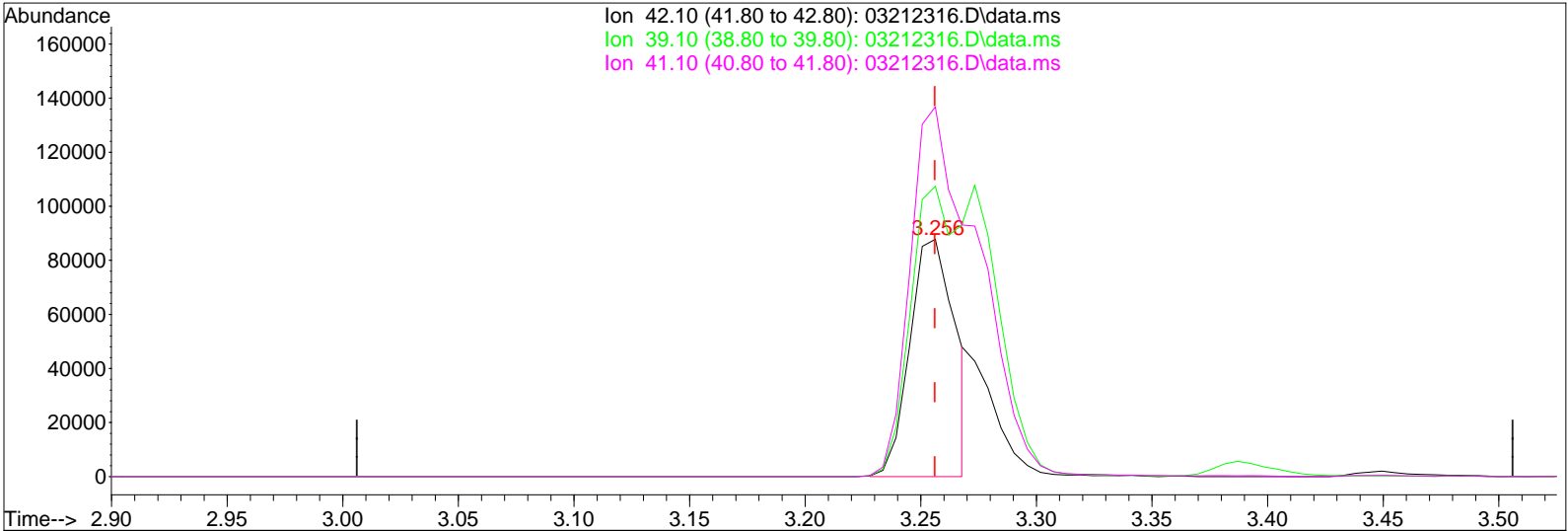
response 157329

Ion	Exp%	Act%
42.10	100	100
39.10	130.00	168.51#
41.10	155.80	178.95#
0.00	0.00	0.00

Data File : I:\MS09\DATA\2023 03\21\03212316.D
 Acq On : 21 Mar 2023 13:25
 Sample : P2301184-007dup (300ml)
 Misc : S35-02212305

Vial: 10
 Operator: WA/SR
 Inst : MS09

Quant Time: Mar 21 13:48:03 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M



TIC: 03212316.D\data.ms

(2) Propene (T)

3.256min (+0.000) 5.26ng m

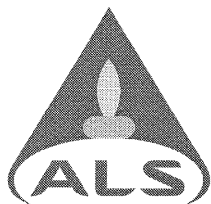
response 119278

IPC

DA 3/21/23

TZ 3/22/23

Ion	Exp%	Act%
42.10	100	100
39.10	130.00	133.64
41.10	155.80	161.86
0.00	0.00	0.00



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:

$$\%D = \left(\frac{\overline{RRF} - RRF \text{ cont}}{\overline{RRF}} \right) (100)$$

\overline{RRF} average relative response factor from the initial calibration

$RRF \text{ cont}$ 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-03

Cycles: 30

Batch: 30671

Batch Started By: on 2/28/23 0438

Finished Cleaning By: KYLAN.MALLOY on 3/1/23 0350

Container IDs	Cleaned Date	QC Date Analyzed	QC Results	Initial Vacuum			Final Vacuum			Comments
				Vacuum	Date/Time	User	Vacuum	Date/Time	User	
AC00897	2/28/23	3/1/23	Pass w/ Conditions	-14.3	3/1/23 0350	KYLAN.MALLOY	-14.0	3/2/23 0219	ms9-03/01/23	
AC00953	2/28/23		Pass w/ Conditions	-14.3	3/1/23 0350	KYLAN.MALLOY	-14.0	3/7/23 0135		
AC01079	2/28/23		Pass w/ Conditions	-14.3	3/1/23 0350	KYLAN.MALLOY	-14.0	3/2/23 0859		
AS00942	2/28/23		Pass w/ Conditions	-14.3	3/1/23 0350	KYLAN.MALLOY	-14.0	3/2/23 0859		
AS01046	2/28/23		Pass w/ Conditions	-14.3	3/1/23 0350	KYLAN.MALLOY	-14.0	3/2/23 0859		
AS01764	2/28/23		Pass w/ Conditions	-14.3	3/1/23 0350	KYLAN.MALLOY	-14.0	3/2/23 0859		
AC02358	2/28/23		Pass w/ Conditions	-14.3	3/1/23 0350	KYLAN.MALLOY	-14.0	3/2/23 0859		
AC02526	2/28/23		Pass w/ Conditions	-14.3	3/1/23 0350	KYLAN.MALLOY	-14.0	3/2/23 0220		
AC02266	2/28/23		Pass w/ Conditions	-14.3	3/1/23 0350	KYLAN.MALLOY	-14.0	3/2/23 0220		
AS01261	2/28/23		Pass w/ Conditions	-14.3	3/1/23 0350	KYLAN.MALLOY	-14.0	3/2/23 0859		
AS01101	2/28/23		Pass w/ Conditions	-14.3	3/1/23 0350	KYLAN.MALLOY	-14.0	3/2/23 0859		
AS01583	2/28/23		Pass w/ Conditions	-14.3	3/1/23 0350	KYLAN.MALLOY	-14.0	3/2/23 0220		
AS01676	2/28/23		Pass w/ Conditions	-14.3	3/1/23 0350	KYLAN.MALLOY	-14.0	3/2/23 0220		
AS01085	2/28/23		Pass w/ Conditions	-14.3	3/1/23 0350	KYLAN.MALLOY	-14.0	3/2/23 0859		

Passed For: TO-15 (75 Comp 0.1 ug/m3)

Exceptions:

COMPONENTID	Date / Time	MODULE	USER	COMMENTS
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Batch Comment:

* QC Canister

Data File : I:\MS09\DATA\2023 03\01\03012311.D
 Acq On : 1 Mar 2023 14:51
 Sample : AC00897 30671
 Misc : S35-02212305

Vial: 10
 Operator: SC
 Inst : MS09

Quant Time: Mar 01 15:14:13 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

 3/1/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.20	130	136956	12.500	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	9.26	114	596907	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.81	54	142599	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.97	65	294701	12.710	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery	=	101.68%	
57) Toluene-d8 (SS2)	12.39	98	673131	12.423	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	99.36%	
73) Bromofluorobenzene (SS3)	16.79	174	289178	13.088	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	104.72%	

Target Compounds

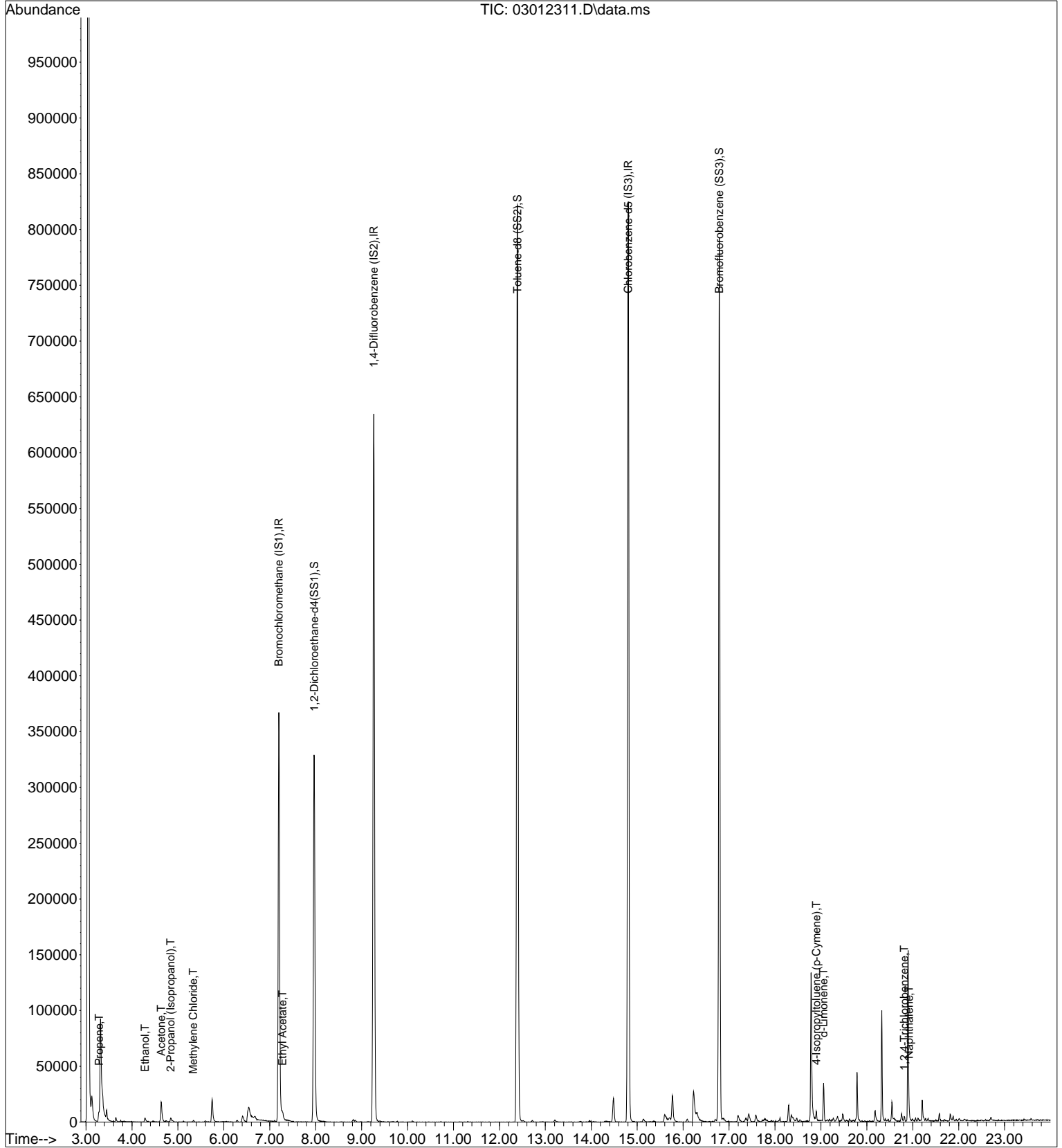
	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.28	42	1184	0.065	ng	# 58
10) Ethanol	4.28	45	5057	0.389	ng	90
13) Acetone	4.64	58	4907	0.498	ng	# 65
15) 2-Propanol (Isopropanol)	4.84	45	4398	0.114	ng	81
19) Methylene Chloride	5.33	84	674	0.052	ng	90
30) Ethyl Acetate	7.28	61	586	0.097	ng	99
88) 4-Isopropyltoluene (p-...)	18.90	119	4133	0.064	ng	97
91) d-Limonene	19.06	68	5942	0.312	ng	98
94) 1,2,4-Trichlorobenzene	20.81	180	1410	0.056	ng	98
95) Naphthalene	20.92	128	4357	0.087	ng	85

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

Data File : I:\MS09\DATA\2023 03\01\03012311.D
Acq On : 1 Mar 2023 14:51
Sample : AC00897 30671
Misc : S35-02212305

Vial: 10
Operator: SC
Inst : MS09

Quant Time: Mar 01 15:14:13 2023
Quant Method : I:\MS09\METHODS\R9022723.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Feb 28 08:30:18 2023
Response via : Initial Calibration
DataAcq Meth:TO15.M



SIMIVALLEY QC Certification

Conditioner: P-Conditioner-07

Cycles: 30

Batch: 30673

Batch Started By: on 3/1/23 0959

Finished Cleaning By: KYLAN.MALLOY on 3/1/23 0352

Container IDs	Cleaned Date	QC Date Analyzed	QC Results	Initial Vacuum			Final Vacuum			Comments
				Vacuum	Date/Time	User	Vacuum	Date/Time	User	
AS01533	3/1/23	3/1/23	Pass w/ Conditions	-14.3	3/1/23 0352	KYLAN.MALLOY	-14.0	3/2/23 0859	ms9-03/01/23	
AS00380	3/1/23		Pass w/ Conditions	-14.3	3/1/23 0352	KYLAN.MALLOY	-14.0	3/2/23 0859		
AC01306	3/1/23		Pass w/ Conditions	-14.3	3/1/23 0352	KYLAN.MALLOY	-14.0	3/2/23 0859		
AS01468	3/1/23		Pass w/ Conditions	-14.3	3/1/23 0352	KYLAN.MALLOY	-14.0	3/2/23 0859		
AC02178	3/1/23		Pass w/ Conditions	-14.3	3/1/23 0352	KYLAN.MALLOY	-14.0	3/2/23 0859		
AC02194	3/1/23		Pass w/ Conditions	-14.3	3/1/23 0352	KYLAN.MALLOY	-14.0	3/2/23 0859		
AC02405	3/1/23		Pass w/ Conditions	-14.3	3/1/23 0352	KYLAN.MALLOY	-14.0	3/2/23 0859		
AS00369	3/1/23		Pass w/ Conditions	-14.3	3/1/23 0352	KYLAN.MALLOY	-14.0	3/2/23 0859		
AS01667	3/1/23		Pass w/ Conditions	-14.3	3/1/23 0352	KYLAN.MALLOY	-14.0	3/2/23 0859		
AC02388	3/1/23		Pass w/ Conditions	-14.3	3/1/23 0352	KYLAN.MALLOY	-14.0	3/2/23 0859		

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 File : I:\MS09\DATA\2023 03\01\03012310.D
 Acq On : 1 Mar 2023 14:19
 Sample : AS01533 30673
 Misc : S35-02212305

Vial: 9
 Operator: SC
 Inst : MS09

Quant Time: Mar 01 14:41:12 2023
 Quant Method : I:\MS09\METHODS\R9022723.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Feb 28 08:30:18 2023
 Response via : Initial Calibration
 DataAcq Meth:TO15.M

 3/1/23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	7.20	130	139793	12.500	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	9.26	114	616963	12.500	ng	-0.03
56) Chlorobenzene-d5 (IS3)	14.81	54	145423	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	7.97	65	301973	12.759	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery	=	102.08%	
57) Toluene-d8 (SS2)	12.39	98	691613	12.516	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	100.16%	
73) Bromofluorobenzene (SS3)	16.79	174	294457	13.068	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	104.56%	

Target Compounds

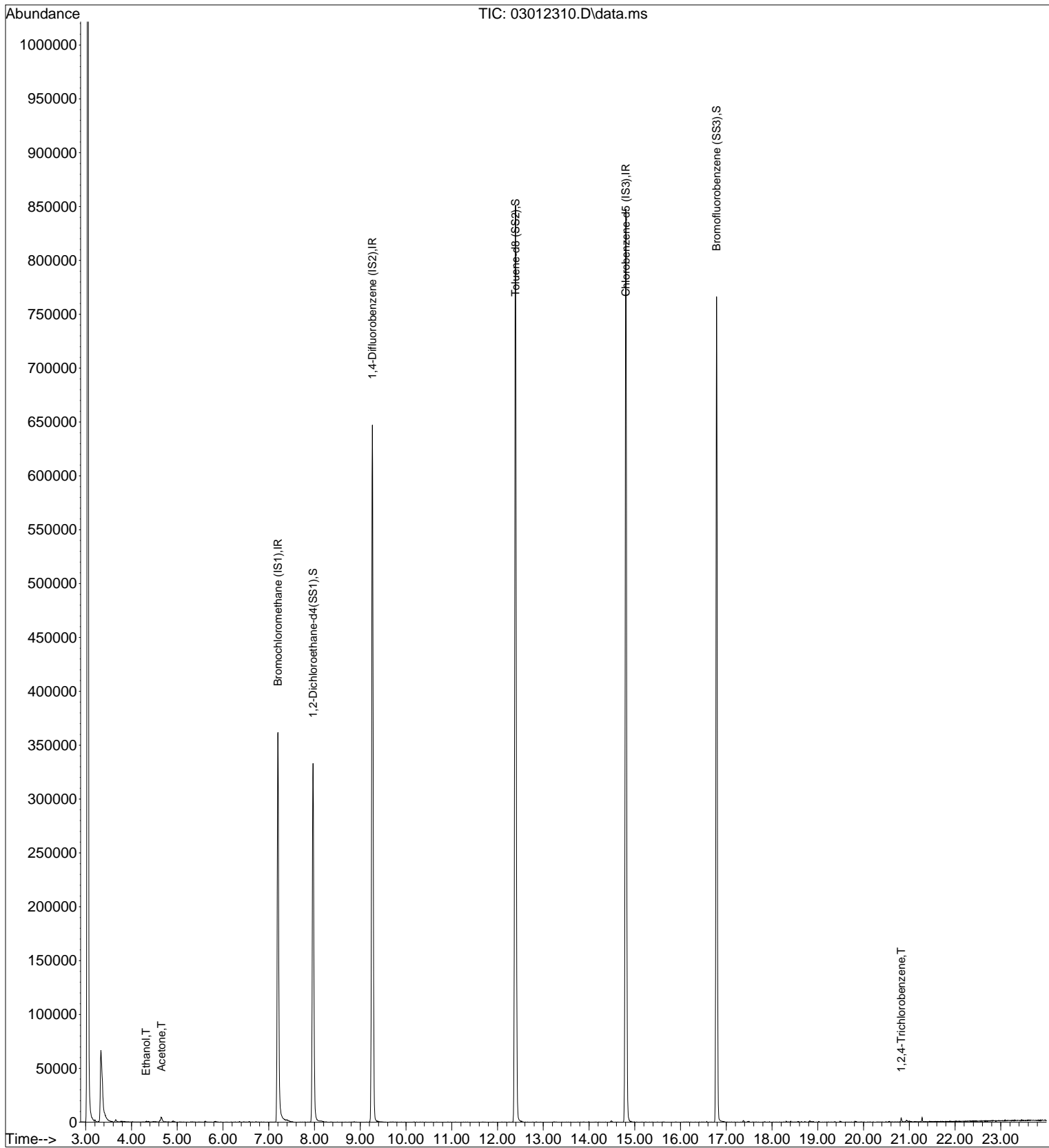
	R.T.	QIon	Response	Conc	Units	Qvalue
10) Ethanol	4.32	45	1343	0.101	ng #	64
13) Acetone	4.66	58	1607	0.160	ng #	20
94) 1,2,4-Trichlorobenzene	20.82	180	1773	0.069	ng #	91

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

Data File : I:\MS09\DATA\2023 03\01\03012310.D
Acq On : 1 Mar 2023 14:19
Sample : AS01533 30673
Misc : S35-02212305

Vial: 9
Operator: SC
Inst : MS09

Quant Time: Mar 01 14:41:12 2023
Quant Method : I:\MS09\METHODS\R9022723.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Feb 28 08:30:18 2023
Response via : Initial Calibration
DataAcq Meth:TO15.M



Appendix G - New York State Department of Health Guidance Decision Matrices

Soil Vapor/Indoor Air Matrix A

May 2017

Analytes Assigned:

Trichloroethene (TCE), *cis*-1,2-Dichloroethene (c12-DCE), 1,1-Dichloroethene (11-DCE), Carbon Tetrachloride

SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m ³)	INDOOR AIR CONCENTRATION of COMPOUND (mcg/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

No further action: No additional actions are recommended to address human exposures.

Identify Source(s) and Resample or Mitigate: We recommend that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges. For example, if an indoor or outdoor air source is identified, we recommend the appropriate party implement actions to reduce the levels. In the event that indoor or outdoor sources are not readily identified or confirmed, resampling (which might include additional sub-slab vapor and indoor air sampling locations) is recommended to demonstrate that SVI mitigation actions are not needed. Based on the information available, mitigation might also be recommended when soil vapor intrusion cannot be ruled out.

Monitor: We recommend monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring might also be recommended to determine whether existing building conditions (e.g., positive pressure heating, ventilation and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined based on site-, building- and analyte-specific information, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Mitigate: We recommend mitigation to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building-specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

These general recommendations are made with consideration being given to the additional notes on page 2.

ADDITIONAL NOTES FOR MATRIX A

This matrix summarizes actions recommended to address current and potential exposures related to soil vapor intrusion. To use the matrix appropriately as a tool in the decision-making process, the following should be noted:

- [1] The matrix is generic. As such, it may be appropriate to modify a recommended action to accommodate analyte-specific, building-specific conditions (e.g., dirt floor in basement, crawl spaces, thick slabs, current occupancy, etc.), and/or factors provided in Section 3.2 of the guidance (e.g., current land use, environmental conditions, etc.). For example, collection of additional samples may be recommended when the matrix indicates "no further action" for a particular building, but the results of adjacent buildings (especially sub-slab vapor results) indicate a need to take actions to address exposures related to soil vapor intrusion. Mitigation might be recommended when the results of multiple contaminants indicate monitoring is recommended. Proactive actions may be proposed at any time. For example, the party implementing the actions may decide to install sub-slab depressurization systems on buildings where the matrix indicates "no further action" or "monitoring." Such an action might be undertaken for reasons other than public health (e.g., seeking community acceptance, reducing costs, etc.). However, actions implemented *in lieu* of sampling will typically be expected to be captured in the final engineering report and site management plan, and might not rule out the need for post-implementation sampling (e.g., to document effectiveness or to support terminating the action).
- [2] Actions provided in the matrix are specific to addressing human exposures. Implementation of these actions does not preclude investigating possible sources of soil vapor contamination, nor does it preclude remediating contaminated soil vapor or the source of soil vapor contamination.
- [3] Appropriate care should be taken during all aspects of sample collection to ensure that high quality data are obtained. Since the data are being used in the decision-making process, the laboratory analyzing the environmental samples must have current Environmental Laboratory Approval Program (ELAP) certification for the appropriate analyte and environmental matrix combinations. Furthermore, samples should be analyzed by methods that can achieve a minimum reporting limit of 0.20 microgram per cubic meter for indoor and outdoor air samples. For sub-slab vapor samples and dirt floor soil vapor samples, a minimum reporting limit of 1 microgram per cubic meter is recommended.
- [4] Sub-slab vapor and indoor air samples are typically collected when the likelihood of soil vapor intrusion is considered to be the greatest (i.e., worst-case conditions). If samples are collected at other times (typically, samples collected outside of the heating season), then resampling during worst-case conditions might be appropriate to verify that actions taken to address exposures related to soil vapor intrusion are protective of human health.
- [5] When current exposures are attributed to sources other than soil vapor intrusion, the agencies should be given documentation (e.g., applicable environmental data, completed indoor air sampling questionnaire, digital photographs, etc.) to support a proposed action other than that provided in the matrix box and to support agency assessment and follow-up.
- [6] The party responsible for implementing the recommended actions will differ depending upon several factors, including but not limited to the following: the identified source of the volatile chemicals, the environmental remediation program, and analyte-specific, site-specific and building-specific factors.

Soil Vapor/Indoor Air Matrix B

May 2017

Analytes Assigned:

Tetrachloroethene (PCE), 1,1,1-Trichloroethane (111-TCA), Methylene Chloride

SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m ³)	INDOOR AIR CONCENTRATION of COMPOUND (mcg/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

No further action: No additional actions are recommended to address human exposures.

Identify Source(s) and Resample or Mitigate: We recommend that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges. For example, if an indoor or outdoor air source is identified, we recommend the appropriate party implement actions to reduce the levels. In the event that indoor or outdoor sources are not readily identified or confirmed, resampling (which might include additional sub-slab vapor and indoor air sampling locations) is recommended to demonstrate that SVI mitigation actions are not needed. Based on the information available, mitigation might also be recommended when soil vapor intrusion cannot be ruled out.

Monitor: We recommend monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring might also be recommended to determine whether existing building conditions (e.g., positive pressure heating, ventilation and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined based on site-, building- and analyte-specific information, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Mitigate: We recommend mitigation to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building-specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

These general recommendations are made with consideration being given to the additional notes on page 2.

ADDITIONAL NOTES FOR MATRIX B

This matrix summarizes actions recommended to address current and potential exposures related to soil vapor intrusion. To use the matrix appropriately as a tool in the decision-making process, the following should be noted:

- [1] The matrix is generic. As such, it may be appropriate to modify a recommended action to accommodate analyte-specific, building-specific conditions (e.g., dirt floor in basement, crawl spaces, thick slabs, current occupancy, etc.), and/or factors provided in Section 3.2 of the guidance (e.g., current land use, environmental conditions, etc.). For example, collection of additional samples may be recommended when the matrix indicates "no further action" for a particular building, but the results of adjacent buildings (especially sub-slab vapor results) indicate a need to take actions to address exposures related to soil vapor intrusion. Mitigation might be recommended when the results of multiple contaminants indicate monitoring is recommended. Proactive actions may be proposed at any time. For example, the party implementing the actions may decide to install sub-slab depressurization systems on buildings where the matrix indicates "no further action" or "monitoring." Such an action might be undertaken for reasons other than public health (e.g., seeking community acceptance, reducing costs, etc.). However, actions implemented *in lieu* of sampling will typically be expected to be captured in the final engineering report and site management plan, and might not rule out the need for post-implementation sampling (e.g., to document effectiveness or to support terminating the action).
- [2] Actions provided in the matrix are specific to addressing human exposures. Implementation of these actions does not preclude investigating possible sources of soil vapor contamination, nor does it preclude remediating contaminated soil vapor or the source of soil vapor contamination.
- [3] Appropriate care should be taken during all aspects of sample collection to ensure that high quality data are obtained. Since the data are being used in the decision-making process, the laboratory analyzing the environmental samples must have current Environmental Laboratory Approval Program (ELAP) certification for the appropriate analyte and environmental matrix combinations. Furthermore, samples should be analyzed by methods that can achieve a minimum reporting limit of 1 microgram per cubic meter for indoor and outdoor air samples. For sub-slab vapor samples and dirt floor soil vapor samples, a minimum reporting limit of 1 microgram per cubic meter is recommended.
- [4] Sub-slab vapor and indoor air samples are typically collected when the likelihood of soil vapor intrusion is considered to be the greatest (i.e., worst-case conditions). If samples are collected at other times (typically, samples collected outside of the heating season), then resampling during worst-case conditions might be appropriate to verify that actions taken to address exposures related to soil vapor intrusion are protective of human health.
- [5] When current exposures are attributed to sources other than soil vapor intrusion, the agencies should be given documentation (e.g., applicable environmental data, completed indoor air sampling questionnaire, digital photographs, etc.) to support a proposed action other than that provided in the matrix box and to support agency assessment and follow-up.
- [6] The party responsible for implementing the recommended actions will differ depending upon several factors, including but not limited to the following: the identified source of the volatile chemicals, the environmental remediation program, and analyte-specific, site-specific and building-specific factors.

Soil Vapor/Indoor Air Matrix C

May 2017

Analytes Assigned:

Vinyl Chloride

SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m ³)	INDOOR AIR CONCENTRATION of COMPOUND (mcg/m ³)	
	< 0.2	0.2 and above
< 6	1. No further action	2. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
6 to < 60	3. MONITOR	4. MITIGATE
60 and above	5. MITIGATE	6. MITIGATE

No further action: No additional actions are recommended to address human exposures.

Identify Source(s) and Resample or Mitigate: We recommend that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges. For example, if an indoor or outdoor air source is identified, we recommend the appropriate party implement actions to reduce the levels. In the event that indoor or outdoor sources are not readily identified or confirmed, resampling (which might include additional sub-slab vapor and indoor air sampling locations) is recommended to demonstrate that SVI mitigation actions are not needed. Based on the information available, mitigation might also be recommended when soil vapor intrusion cannot be ruled out.

Monitor: We recommend monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring might also be recommended to determine whether existing building conditions (e.g., positive pressure heating, ventilation and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined based on site-, building- and analyte-specific information, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Mitigate: We recommend mitigation to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building-specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

These general recommendations are made with consideration being given to the additional notes on page 2.

ADDITIONAL NOTES FOR MATRIX C

This matrix summarizes actions recommended to address current and potential exposures related to soil vapor intrusion. To use the matrix appropriately as a tool in the decision-making process, the following should be noted:

- [1] The matrix is generic. As such, it may be appropriate to modify a recommended action to accommodate analyte-specific, building-specific conditions (e.g., dirt floor in basement, crawl spaces, thick slabs, current occupancy, etc.), and/or factors provided in Section 3.2 of the guidance (e.g., current land use, environmental conditions, etc.). For example, collection of additional samples may be recommended when the matrix indicates "no further action" for a particular building, but the results of adjacent buildings (especially sub-slab vapor results) indicate a need to take actions to address exposures related to soil vapor intrusion. Mitigation might be recommended when the results of multiple contaminants indicate monitoring is recommended. Proactive actions may be proposed at any time. For example, the party implementing the actions may decide to install sub-slab depressurization systems on buildings where the matrix indicates "no further action" or "monitoring." Such an action might be undertaken for reasons other than public health (e.g., seeking community acceptance, reducing costs, etc.). However, actions implemented *in lieu* of sampling will typically be expected to be captured in the final engineering report and site management plan, and might not rule out the need for post-implementation sampling (e.g., to document effectiveness or to support terminating the action).
- [2] Actions provided in the matrix are specific to addressing human exposures. Implementation of these actions does not preclude investigating possible sources of soil vapor contamination, nor does it preclude remediating contaminated soil vapor or the source of soil vapor contamination.
- [3] Appropriate care should be taken during all aspects of sample collection to ensure that high quality data are obtained. Since the data are being used in the decision-making process, the laboratory analyzing the environmental samples must have current Environmental Laboratory Approval Program (ELAP) certification for the appropriate analyte and environmental matrix combinations. Furthermore, samples should be analyzed by methods that can achieve a minimum reporting limit of 0.20 microgram per cubic meter for indoor and outdoor air samples. For sub-slab vapor samples and dirt floor soil vapor samples, a minimum reporting limit of 1 microgram per cubic meter is recommended.
- [4] Sub-slab vapor and indoor air samples are typically collected when the likelihood of soil vapor intrusion is considered to be the greatest (i.e., worst-case conditions). If samples are collected at other times (typically, samples collected outside of the heating season), then resampling during worst-case conditions might be appropriate to verify that actions taken to address exposures related to soil vapor intrusion are protective of human health.
- [5] When current exposures are attributed to sources other than soil vapor intrusion, the agencies should be given documentation (e.g., applicable environmental data, completed indoor air sampling questionnaire, digital photographs, etc.) to support a proposed action other than that provided in the matrix box and to support agency assessment and follow-up.
- [6] The party responsible for implementing the recommended actions will differ depending upon several factors, including but not limited to the following: the identified source of the volatile chemicals, the environmental remediation program, and analyte-specific, site-specific and building-specific factors.

