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PERIODIC REVIEW REPORT

**OCEANSIDE PLAZA
NASSAU COUNTY, NEW YORK**

NYSDEC Site Number: C130158

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1.0 EXECUTIVE SUMMARY

1.1 Site Summary

1.1.1 Location and Description

The Site is an irregularly shaped 7.45-acre parcel occupying 3131-3221 Long Beach Road, Oceanside, Nassau County, New York - Section 43, Block 368, Lots 19, 20, 41 thru 45, 75 thru 92, 107 and 355 on the Official Land and Tax Map of Nassau County, New York. The Site contains four single-story buildings used for retail purposes with asphalt-paved driveways and parking areas.

1.1.2 Nature and Extent of Contamination

- An area of soil contamination (tetrachloroethene [PCE] and related compounds) was initially identified immediately east of the dry cleaner facility's rear door – exterior of Retail Space 13.
- An area of soil contamination (PCE and related compounds) was identified in the vicinity of the dry cleaning machine room – interior of Retail Space 13.
- A PCE based groundwater plume originating to the east of the dry cleaner facility's rear door – exterior of Retail Space 13 - and migrating in a southeastern direction was identified.
- A PCE and trichloroethene (TCE) soil vapor plume existed beneath the building.

1.1.3 Summary of Remedial Actions

- Excavation of interior and exterior soils exceeding the unrestricted Soil Cleanup Objectives (SCOs), to a maximum depth of 4.25 feet below grade.
- Active sub-slab depressurization system (SSDS) installation and monitoring to safeguard against human exposure to vapors emanating from the contaminated soil remaining at the Site.
 - Vapors are extracted from two horizontal legs and one vertical point within Retail Space 13.
 - A wind turbine was added to the SSDS effluent pipe to allow the system to operate in passive mode.
 - The extraction blower was replaced with commercially rated radon mitigation fans along each existing extraction leg/point.
- Execution and recording of an Environmental Easement to restrict groundwater use and prevent future exposure to any contamination remaining at the Site.

1.2 Effectiveness of the Remedial Program

As provided in the Final Engineering Report, dated December 2013, the selected remedy for the site is **No Further Action** with continued limited-term operation of an SSDS, continued periodic associated monitoring of indoor air quality with institutional controls (IC) and continued site management. The factors considered during the selection of the remedy are those listed in 6NYCRR 375-1.8.

1.3 Compliance

In accordance with the Corrective Measure Plan (CMP) approved by the New York State Department of Environmental Conservation (NYSDEC) on August 13, 2021, the following activities were conducted during the period covered by this Periodic Review Report (PRR):

- System operations were monitored in accordance with the Monitoring Plan provided in the November 2013 Site Management Plan.

- The SSDS was shut down on November 10, 2023, to provide a minimum shut down period of 60 days prior to sampling during the 2023/2024 heating season. Shut down was conducted in accordance with the NYSDEC Site Management Periodic Review Report Response Letter, dated September 29, 2023.
- Soil vapor/indoor air quality sampling to assess continued operation of the SSDS for the protection of indoor air quality (IAQ) was conducted on January 18, 2024.
- The SSDS was re-started on May 2, 2024.

1.4 Recommendations

It is recommended that the active operation of the SSDS EC and the associated EC inspection, maintenance tasks and vapor monitoring tasks continue until the NYSDEC has responded to the Termination Petition.

2.0 SITE OVERVIEW

2.1 Site Description

The Site is an irregularly shaped 7.45-acre parcel occupying 3131-3221 Long Beach Road, Oceanside, Nassau County, New York -- Section 43, Block 368, Lots 19, 20, 41 thru 45, 75 thru 92, 107 and 355 on the Official Land and Tax Map of Nassau County, New York (Figure 1). The Site contains four single-story buildings used for retail purposes with asphalt-paved driveways and parking areas. The Site retail buildings, reported to have been constructed in 1958 and 1976, contain 21 tenants (Figure 2). The surrounding area is comprised of residential and commercial/retail properties.

2.2 Nature and Extent of Contamination

2.2.1 Soils

PCE and related compounds were identified in subsurface soils at the Site, related to a dry cleaning operation located in Retail Space 13 (Figure 2) within the mall. As of January 1, 2017, all dry cleaning related equipment/supplies were removed from Retail Space 13, which remained vacant until occupied by Ear Works Audiology on November 1, 2017. Affected soils were identified both within the facility, near the dry cleaner machine room, and in a grass covered area to the exterior of the rear door to the facility. The interior soils were addressed in 2005, prior to the property owner entering into the Brownfield Cleanup Program (BCP). The delineated exterior soils were identified as the primary source of groundwater contamination in later investigations and were the subject of Interim Remedial Measures (IRMs) designed to remove these soils/contaminants through excavation and disposal and soil vapor extraction.

Prior to the IRMs, PCE concentrations in the soils ranged from 0.51 mg/kg to 1,200 mg/kg (Table 1). The Track 1 Objective - Unrestricted Use SCO for PCE is 1.3 mg/kg.

2.2.2 Groundwater

PCE and related compounds were identified in groundwater at the Site, in groundwater monitoring wells MW-4 and MW-5 (Figure 2). The groundwater monitoring well data, in conjunction with the soil data, indicated the plume originated in the vicinity of well MW-4 (located directly behind the rear door of the dry cleaner). From this point, the plume migrated in a southeastern direction, following the groundwater flow pattern, encompassing well MW-5.

Pre-remedial PCE concentrations in the groundwater ranged from non-detect to 360 µg/l in source area well MW-4, and from 74 µg/l to 160 µg/l in downgradient property boundary well MW-5 (Table 2). The Groundwater Standards/Criteria for PCE is 5.0 µg/l. Cis-1,2-Dichloroethene concentrations in the groundwater ranged from non-detect to 54 µg/l in MW-5. The Groundwater Standards/Criteria for cis-1,2-Dichloroethene is 5.0 µg/l. Vinyl Chloride concentrations in the ground water ranged from non-detect to 17 µg/l in MW-5. The Groundwater Standards/Criteria for vinyl chloride is 2.0 µg/l.

2.2.3 Vapor Intrusion

Indoor air quality samples were collected from the retail spaces immediately adjacent to the dry cleaner (i.e. Retail Spaces 12 and 14). Pre-remediation PCE levels in indoor air samples ranged from 2.3 micrograms per cubic meter (mcg/m³) to 880 mcg/m³. TCE levels in indoor air samples ranged from non-detect to 5.9 mcg/m³ (Table 3).

Sub-slab soil vapor samples were collected from three soil vapor ports located within the dry cleaner (Retail Space 13), four soil vapor ports in adjacent retail spaces (i.e. Retail Spaces 9, 12, 14 and 16) and one soil vapor port to the rear (east) of the dry cleaner retail space. Pre-remediation PCE concentrations in the sub-slab soil vapor samples ranged from non-detect to 81,000 mcg/m³. TCE concentrations in the sub-slab soil vapor samples ranged from non-detect to 380 mcg/m³ (Table 4).

Pre-remediation soil vapor data indicates that the PCE plume encompassed approximately 945 square feet and the TCE plume encompassed approximately 415 square feet. Both plumes center on the dry cleaning operation.

2.3 Remedial Program

1. Interior soils were excavated/disposed in 2005, prior to the property owner entering into the BCP.
2. Exterior soils were excavated/disposed in 2010, to a maximum depth of 4.25 feet. Based upon compliance with the **Tract 1 Objectives - Unrestricted Use Soil Cleanup Objectives**, no further soil remediation activities were warranted.
3. In July 2009, an SSDS was constructed utilizing perforated plastic piping installed within the interior soil remediation excavation. After construction of the system, performance monitoring was conducted to demonstrate that the system was reducing impacts to indoor air. The remedial process will be considered complete when monitoring data indicates that the SSDS is no longer required to protect indoor air quality from being impacted by the soil vapor.
 - The 2014 PRR recommended the installation of an additional soil vapor extraction point to better capture vapors beneath Retail Space 12. The NYSDEC concurred with this recommendation (Site Management Periodic Review Report Response Letter, November 17, 2014) and the point was installed on January 8, 9 and 12, 2015 (Figure 3).
 - The 2017 PRR documented the installation of a new, 2-leg horizontal vapor extraction trench on April 19, 2017 (Figure 3). The new extraction piping is 2 inches in diameter and approximately 22 feet in total length. This new piping was installed beneath the footprint of the former dry cleaner machine room.
 - Comparison of sub-slab vapor and indoor air results from February 22 and April 27, 2018 to the New York State Department of Health (NYSDOH) decision matrices determined “No Further Action” was necessary; therefore, the 2018 PRR recommended termination of the SSDS.
 - The NYSDOH recommended additional sampling be conducted during the 2018/2019 heating season (December 4, 2018) to evaluate vapor with respect to the continued shut-down of the SSDS, which was deactivated on March 16, 2018. Based upon sub-slab PCE concentrations in excess of 1,000 mcg/m³, the NYSDOH decision matrices recommend mitigation. The 2019 PRR recommended replacement of the SSDS with a more cost-effective “radon mitigation fan” system; however, the SSDS was not replaced.
 - Confirmatory soil vapor sampling was conducted on March 9, 2020, with the SSDS being non-operational for approximately twenty-three months (March 2018 through February 2020) prior to the collection of the vapor samples. PCE was not present at a concentration greater than the NYSDOH Air Guideline Value for indoor air of 30 mcg/m³ at any of the four indoor air sample locations. Therefore, it was concluded there are no viable vapor intrusion pathways following an extended period of SSDS inactivity; and therefore, the remedy has achieved the remedial action objectives of mitigating impacts to public health as identified by the decision document. It was recommended in the 2020 PRR that the SSDS remain deactivated pending NYSDEC approval of a Termination Plan.
 - The NYSDEC required the submission of a CMP to address significant soil vapor concentrations beneath the building slab during the March 9, 2020 sampling event. The CMP was submitted to the NYSDEC on May 17, 2021 and subsequently approved on August 13, 2021 (see Section 1.3).

4. Asymptotic concentration levels/trends of all groundwater contaminants were exhibited through the November 2013 groundwater sampling event. In 2013, an Environmental Easement to restrict groundwater use and prevent future exposure to any contamination remaining at the Site was executed and recorded.
 - The 2016 Periodic Review Report recommended that the groundwater monitoring program be terminated, based on the non-detect and asymptotic patterns demonstrated, and proper abandonment/closure of the existing groundwater monitoring wells in compliance with NYSDEC's "Groundwater Monitoring Well Decommissioning Procedures." The NYSDEC approved termination of the groundwater monitoring program, but requested the wells not be abandoned until site closure has been attained.

3.0 REMEDY EVALUATION

As provided in the Final Engineering Report, dated December 2013, the selected remedy for the site is **No Further Action** with continued limited-term operation of an SSDS, continued periodic associated monitoring of indoor air quality with the following ICs and continued site management. The factors considered during the selection of the remedy are those listed in 6NYCRR 375-1.8.

3.1 Institutional Controls

A series of ICs is required by the Decision Document to prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination (groundwater). Adherence to these ICs on the Site is required by the Environmental Easement and will be implemented under the Site Management Plan (SMP). These ICs are:

- Compliance with the Environmental Easement and the SMP by the Grantor and the Grantor's successors and assigns;
- Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP.
- ICs identified in the Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement.

3.2 Short Term Engineering Control - Sub-Slab Depressurization System

An active SSDS has been installed at the former Jef El dry cleaner (currently Ear Works Audiology/Retail Space 13). Procedures for monitoring the system are included in the Monitoring Plan (Section 3 of the SMP). Generally, remedial processes are considered completed when effectiveness monitoring indicates that the remedy has achieved the remedial action objectives of mitigating impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at a site, as identified by the decision document. The framework for determining when remedial processes are complete is provided in Section 6.6 of NYSDEC DER-10.

The active SSDS will not be discontinued unless prior written approval is granted by the NYSDEC. In the event that monitoring data indicates that the SSDS is no longer required, a proposal to discontinue the system will be submitted by the property owner to the NYSDEC and NYSDOH.

3.3 Soil Vapor Intrusion Evaluation

Until the SSDS can be discontinued, prior to the construction of any enclosed structures located over areas that contain remaining contamination and/or the potential for soil vapor intrusion (SVI) has been identified (see Figure 10 of the SMP), an SVI evaluation will be performed to determine whether any mitigation measures are necessary to eliminate potential exposure to vapors in the proposed structure. Alternatively, an SVI mitigation system may be installed as an element of the building foundation without first conducting an investigation. This mitigation system will include a vapor barrier and passive sub-slab depressurization system that is capable of being converted to an active system.

3.4 Excavation Work Plan

The Site has been remediated for unrestricted use. Any future intrusive work that encounters contamination (e.g. groundwater) will be performed in compliance with the Excavation Work Plan (EWP) that is attached as Appendix C to the SMP. Any work conducted pursuant to the EWP must also be conducted in accordance with the procedures defined in a Health and Safety Plan (HASP) and Community Air Monitoring Plan (CAMP) prepared for the Site. Based on future changes to State and federal health and safety requirements, and specific methods employed by future contractors, the HASP and CAMP will be updated

and re-submitted with the notification provided in Section B-1 of the EWP. Any intrusive construction work will be performed in compliance with the EWP, HASP and CAMP, and will be included in the periodic inspection and certification reports submitted under the Site Management Reporting Plan.

The Site owner and associated parties preparing the remedial documents submitted to the State, and parties performing this work, are completely responsible for the safe performance of all intrusive work, the structural integrity of excavations, proper disposal of excavation de-water, control of runoff from open excavations into remaining contamination, and for structures that may be affected by excavations (such as building foundations and bridge footings). The Site owner will ensure that Site development activities will not interfere with, or otherwise impair or compromise, any short-term engineering controls described in the SMP.

4.0 IC/EC PLAN COMPLIANCE

4.1 Introduction

Since remaining contaminated groundwater/soil vapor exists beneath the Site, IC/ECs are required to protect human health and the environment. This Section summarizes the IC/ECs required by the SMP at the Site, as well as provides a summary of the IC/EC performance and effectiveness. Additionally, as required by the SMP, the IC/EC Certification is provided in Appendix A.

4.2 Engineering Controls

As discussed in the SMP, an active SSDS was installed at the former Jef El dry cleaner (currently Hear USA/Retail Space 13) and began operation in July 2009. This SSDS was installed by converting the existing 2-inch diameter horizontal screened sub-slab piping (installed following the 2005 interior excavation activities) to an active system. The 2-inch screened pipe is approximately 10 feet long. A 4.0-Hp regenerative blower was connected to the existing sub-slab piping via 4-inch diameter Schedule 40 PVC piping as shown on Figure 3. The blower was rated for 200 cubic feet per minute and 90 inches of water vacuum and the discharge was connected to a VPGAC drum and away from any roof air intakes.

- On January 8, 9, and 12, 2015, Roux Associates installed a 2-inch diameter vertical extraction point in accordance with the recommendations provided in Section 7.2 of the PRR submitted to NYSDEC in September 2014. The purpose of this additional extraction point was to address sub-slab vapor levels persisting beneath Retail Space 12 (current wine store). This new sub-slab extraction point was located in the dry cleaner space, immediately adjacent to the north wall separating the dry cleaner from the wine store (Figure 3). This extraction point was brought online on January 12, 2015, and significantly increased the vacuum influence beneath the former wine store (Retail Space 12) during SSDS operation.
- On September 1, 2015 (when the SSDS was non-operational due to faulty blower motor), a wind powered turbine was installed at the termination of the system effluent stack. The purpose of this wind turbine was to allow the system to operate in a passive mode while evaluating the permanent shutdown of the active SSDS with NYSDEC.
- On April 19, 2017, a second horizontal vapor extraction point was installed beneath the former dry cleaner (currently Hear USA/Retail Space 13). Specifically, this extraction trench was installed beneath the footprint of the former dry cleaner machine room (possible as the space was vacant). This horizontal point consists of a 15 foot leg and a 7 foot leg, configured perpendicular to each other (Figure 3). The new point was placed in an "L" shaped excavation approximately 95 square feet in area and 2.5 feet in depth. The 2-inch diameter perforated extraction piping was lined with a geotextile fabric prior to placement in the trench. The trench was lined with 0.5 feet of gravel, and following installation, the excavation was backfilled with gravel. This second horizontal extraction trench was brought online April 24, 2017, and significantly increases the vacuum influence beneath the former dry cleaner machine room (Retail Space 13) and wine store (Retail Space 12) during SSDS operation.

A shut off valve was installed on the second horizontal extraction piping. The SSDS system was configured to allow for operation of the previously installed horizontal extraction pipe, the vertical extraction point, and the newest horizontal extraction trench concurrently, or using the shutoff valves such that any of the three points can be shut-down or throttled down.

- Following a period of inactivity due to failure of the blower motor (September to November 1, 2017), the motor was replaced in late October 2017 and the SSDS was re-started on November 1, 2017.

- On March 16, 2018, the system was deactivated to conduct termination sub-slab vapor, indoor air and ambient air sampling. Attempts to re-start the SSDS were unsuccessful, prompting the submission of a CMP on May 17, 2021, and subsequently approved by the NYSDEC on August 13, 2021.
- Commercially rated radon mitigation fans were installed along each existing extraction leg/point and activated on October 31, 2021. A U-Tube Manometer is used to monitor the fan operations and vapors treated via a VPGAC drum before being discharged into the atmosphere, away from any roof air intakes.

To ensure effectiveness of the system, vacuum readings were collected from the sub-slab vapor sample points (Retail Space 12 – VA-Vac, Retail Space 13 – DCF, DCR & MRE and Retail Space 14 – VS-Book) on January 27, 2022. All of the points are in good condition and a suitable level of vacuum was measured at each location.

4.3 Institutional Controls

4.3.1 Environmental Easement

As discussed in the SMP, ICs have been enacted to prevent exposure to remaining contamination by controlling disturbances of the subsurface contamination (soil vapor and groundwater). Adherence to the Institutional Controls that apply to the Controlled Property is required by the Environmental Easement, which set forth the following Site restrictions:

- The property may be used for Restricted Residential use provided that the ICs included in the SMP are employed.
- The use of the groundwater underlying the property is prohibited without testing and/or treatment rendering it safe for intended use;
- The Site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

4.3.2 Environmental Easement Granted

Pursuant to Article 71, Title 36 of the New York State Environmental Conservation Law, an Environmental Easement was granted for the Site on November 12, 2013. The NYSDEC accepted the Environmental Easement in order to ensure the protection of public health and the environment and to achieve the requirements for remediation established for the Controlled Property until such time as the Environmental Easement is extinguished.

The controls and requirements listed in the NYSDEC approved SMP, including any and all NYSDEC approved amendments to the SMP, were incorporated into and made part of the Environmental Easement.

4.4 IC/EC Plan Compliance Conclusions and Recommendations

The IC/ECs were in place, operational and protective of public health and the environment (see IC/EC Certification section below) following approval of the May 17, 2021 CMP (October 31, 2021 through May 3, 2022).

4.5 IC/EC Certification

IC/ECs have been established for the Site in accordance with the SMP. ICs include the following:

- Compliance with the Environmental Easement and the SMP by the Grantor and the Grantor's successors and assigns; and
- Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP.

Engineering Controls include the following:

- Limited term operation of an active SSDS.

As described above, the IC was in place and the EC was operational, following the approved CMP modifications, during the period covered by this PRR. An IC/EC Certification form is included as Appendix A.

5.0 MONITORING PLAN COMPLIANCE

The Monitoring Plan presented in the SMP is designed to provide measures for evaluating the performance and effectiveness of the remedy to reduce or mitigate contamination at the Site and all affected media identified below. Monitoring of other short-term Engineering Controls is described in the following section (Section 6.0 O&M Plan Compliance).

Monitoring programs are summarized below in Table 5.1 and outlined in detail in Section 5.1. Results for this monitoring period are provided in Section 5.2.

Table 5.1: Monitoring Schedule			
Monitoring Program	Frequency	Matrix	Analysis
SSVS	Confirmatory	Soil Vapor	Vinyl Chloride, 1,1-Dichloroethene, Trans-1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, and Tetrachloroethene (USEPA Method TO-15)
SSVS	Confirmatory	Indoor Air Quality	Vinyl Chloride, 1,1-Dichloroethene, Trans-1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, and Tetrachloroethene (USEPA Method TO-15)

5.1 Media Monitoring Program

5.1.1 Sub-Slab Vapor, Indoor Air, Soil Vapor and Ambient Air Quality Monitoring

Vapor and Indoor Air Quality monitoring was performed during the 2023/2024 heating season as required by the NYSDEC to demonstrate the remedy has achieved the remedial action objectives of mitigating impacts to public health at the site. Indoor air quality samples, sub-slab vapor samples, soil vapor, and outdoor (ambient) air samples were collected from the following locations (numbers correspond to the "Retail Space" numbers, as shown in Figure 4):

Indoor Air Quality

Retail Space 12 (IAQ-Vac)
Retail Space 13 (DCF, DCF)
Retail Space 14 (IAQ-Book)

Sub-Slab Vapor

Retail Space 12 (VS-Vac)
Retail Space 13 (DCF, DCF, MRE)
Retail Space 14 (VS-Book)

Soil Gas

Retail Space 13 (Fence)

Ambient

Retail Space 10 (rear)

All sub-slab vapor, soil gas, indoor air and ambient air samples were collected following the procedures outlined in the SMP on January 18, 2024. Note that since there are no longer any dry cleaning operations or a dry cleaning drop off store present in Retail Space 13 (currently occupied by Hear USA), Indoor Air Quality samples were also collected from within the former dry cleaner (Retail Space 13). Sample "IA-DCF" and sample "IA-DCR" were indoor air samples collected from the front and rear of the former dry cleaner, respectively.

5.2 Monitoring Program Results (January 18, 2024)

The SSDS was deactivated on November 10, 2023, thus allowing the system to be deactivated for a minimum of 60 days prior to collection of confirmatory samples to assess the necessity for continued operation of the SSDS for the protection of IAQ. The SSDS was re-started on May 2, 2024.

The results for the sampling event conducted on January 18, 2024 are provided in Tables 3 and 4 and depicted on Figure 4, attached. For reference, in addition to providing the analytical results for this event, Tables 3 and 4 provide analytical results for all vapor sampling events conducted at the Site since 2007 (prior to the startup of the SSDS on July 30, 2009). All data packages were reviewed by a qualified data validator, and a Data Usability Summary Report (DUSR) was prepared. All sample results are usable as reported. The laboratory analytical data report is provided in Appendix B and the DUSR is provided in Appendix C.

Note that while the indoor air laboratory reporting limits were >0.2 mcg/m³ during the January 18, 2024 sampling event for TCE, the reporting limits have historically been reported as <0.2 mcg/m³. According to the laboratory, reporting limits were elevated due to non-target contaminants. As confirmed by the NYSDEC, it is assumed the concentrations meet the "No Further Action" requirements of the Soil Vapor/Indoor Air Decision Matrix A.

5.2.1 IA-DCR / VS-DCR

TCE – Soil Vapor/Indoor Air Matrix A – No Further Action

SUB-SLAB VAPOR CONCENTRATION (1.26 mcg/m ³)	INDOOR AIR CONCENTRATION (<0.295 mcg/m ³)		
	<0.2	0.2 to <1	1 and above
<6	No Further Action	No Further Action	Identify Source(s) and Resample or Mitigate
6 to <60	No Further Action	Monitor	Mitigate
60 and above	Mitigate	Mitigate	Mitigate

PCE – Soil Vapor/Indoor Air Matrix B – No Further Action

SUB-SLAB VAPOR CONCENTRATION (8.54 mcg/m ³)	INDOOR AIR CONCENTRATION (0.536 mcg/m ³)		
	<3	3 to <10	10 and above
<100	No Further Action	No Further Action	Identify Source(s) and Resample or Mitigate
100 to $<1,000$	No Further Action	Monitor	Mitigate
1,000 and above	Mitigate	Mitigate	Mitigate

All other analyzed compounds were reported as non-detect in both the sub-slab soil vapor and indoor air samples.

5.2.2 IA-DCF / VS-DCF

TCE – Soil Vapor/Indoor Air Matrix A – No Further Action

SUB-SLAB VAPOR CONCENTRATION (0.957 mcg/m ³)	INDOOR AIR CONCENTRATION (<0.295 mcg/m ³)		
	<0.2	0.2 to <1	1 and above
<6	No Further Action	No Further Action	Identify Source(s) and Resample or Mitigate
6 to <60	No Further Action	Monitor	Mitigate
60 and above	Mitigate	Mitigate	Mitigate

PCE – Soil Vapor/Indoor Air Matrix B – No Further Action

SUB-SLAB VAPOR CONCENTRATION (3.31 mcg/m ³)	INDOOR AIR CONCENTRATION (0.671 mcg/m ³)		
	<3	3 to <10	10 and above
<100	No Further Action	No Further Action	Identify Source(s) and Resample or Mitigate
100 to <1,000	No Further Action	Monitor	Mitigate
1,000 and above	Mitigate	Mitigate	Mitigate

All other analyzed compounds were reported as non-detect in both the sub-slab soil vapor and indoor air samples.

5.2.3 IA-Yogurt / VS-Book

TCE – Soil Vapor/Indoor Air Matrix A – No Further Action

SUB-SLAB VAPOR CONCENTRATION (6.4 mcg/m ³)	INDOOR AIR CONCENTRATION (<0.295 mcg/m ³)		
	<0.2	0.2 to <1	1 and above
<6	No Further Action	No Further Action	Identify Source(s) and Resample or Mitigate
6 to <60	No Further Action	Monitor	Mitigate
60 and above	Mitigate	Mitigate	Mitigate

PCE – Soil Vapor/Indoor Air Matrix B – No Further Action

SUB-SLAB VAPOR CONCENTRATION (16.7 mcg/m ³)	INDOOR AIR CONCENTRATION (0.461 mcg/m ³)		
	<3	3 to <10	10 and above
<100	No Further Action	No Further Action	Identify Source(s) and Resample or Mitigate
100 to <1,000	No Further Action	Monitor	Mitigate
1,000 and above	Mitigate	Mitigate	Mitigate

All other analyzed compounds were reported as non-detect in both the sub-slab soil vapor and indoor air samples.

5.2.4 IA-Wine / VS-Vac

TCE – Soil Vapor/Indoor Air Matrix A – No Further Action

SUB-SLAB VAPOR CONCENTRATION (1.37 mcg/m ³)	INDOOR AIR CONCENTRATION (<0.295 mcg/m ³)		
	<0.2	0.2 to <1	1 and above
<6	No Further Action	No Further Action	Identify Source(s) and Resample or Mitigate
6 to <60	No Further Action	Monitor	Mitigate
60 and above	Mitigate	Mitigate	Mitigate

PCE – Soil Vapor/Indoor Air Matrix B – No Further Action

SUB-SLAB VAPOR CONCENTRATION (33.1 mcg/m ³)	INDOOR AIR CONCENTRATION (0.441 mcg/m ³)		
	<3	3 to <10	10 and above
<100	No Further Action	No Further Action	Identify Source(s) and Resample or Mitigate
100 to <1,000	No Further Action	Monitor	Mitigate
1,000 and above	Mitigate	Mitigate	Mitigate

All other analyzed compounds were reported as non-detect in both the sub-slab soil vapor and indoor air samples.

5.2.5 VS-MRE

PCE was reported at a concentration of 432 mcg/m³ and TCE at a concentration of 7.15 mcg/m³ in the sub-slab soil gas. No corresponding indoor air sample was collected. All other analyzed compounds were reported as non-detect in the sub-slab soil vapor sample.

5.2.6 VS-Fence

All analyzed compounds were reported as non-detect in the soil gas sample.

5.3 Site-Wide Inspection

5.3.1 Inspection Procedures

As presented in the SMP, site-wide inspections will be performed on a regular schedule at a minimum of once a year. Site-wide inspections will also be performed after all severe weather conditions that may affect Engineering Controls or monitoring devices. During these inspections, an inspection form will be completed, for the purpose of compiling sufficient information to assess the following:

- Compliance with all ICs, including Site usage;
- An evaluation of the condition and continued effectiveness of ECs;
- General Site conditions at the time of the inspection;
- The Site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection;
- Compliance with permits and schedules included in the Operation and Maintenance Plan; and
- Confirm that Site records are up to date.

5.3.2 Inspection Findings

A site-wide inspection was conducted on April 27, 2024 and included a reconnaissance of the Site exterior and the interior of Retail Space 13. A copy of the Site-Inspection Form is provided in Appendix D and summarized below.

- The Site was found to be in compliance with all ICs, as the Site usage has not changed, groundwater beneath the Site is not being used and the remaining contaminated material has not been disturbed.
- All potential sources have been removed from Retail Space 13, currently occupied by Hear USA.
- The SSDS was operational and there were no odors found within either Retail Space 12, 13 or 14.
- The Site was reported to be in good condition with no foreign debris being identified on the grounds and all structures being of sound construction.
- A review of the Site records indicated all inspection activities have been completed, as outlined in the SMP. SSDS Inspection Checklists for those events completed by “Qualified Environmental Professionals” are provided in Appendix E.
- No additional observations relevant to the remedy were documented.

5.4 Monitoring Plan Compliance Conclusions and Recommendations

The system is currently operational and effective in mitigating sub-slab vapors from impacting human health. Please see Section 7.0 for details on future activities.

6.0 OPERATION & MAINTENANCE PLAN COMPLIANCE

6.1 Introduction

Section 4.2 of the SMP describes the O&M activities that are to be performed at the Site. These activities include:

- Sub-slab vapor monitoring (described above in Section 5.0);
- Performance monitoring of the SSDS; and
- Inspection and maintenance of the SSDS.

This section details the O&M Plan activities that are currently implemented as part of the SMP to achieve overall effectiveness of the remedy selected for the site.

6.1.1 O&M Plan Requirements

Table 6.1.1 outlines the O&M Plan components as detailed in the SMP.

Table 6.1.1 SSDS O&M Plan Components	
Component	Frequency
Site Inspection & Maintenance	Monthly
Regulatory Reporting	Annual Periodic Review Report

6.2 Evaluation of O&M Plan Activities

The Site inspection and routine maintenance activities include visual inspections, operating data collection and general maintenance. Visual inspection is the routine part of the SSDS operator's activities.

The specific routine maintenance tasks completed as part of the SMP are outlined below:

- Inspect SSDS piping to confirm operation of appropriate valves (i.e., dilution valve); and
- Inspect U-Tube Manometers for proper operation;

Site Inspection and Maintenance tasks were conducted during the last week of each month while the SSDS was operational between May 3, 2023 through May 3, 2024. During each event, the system was operational and removing sub-slab vapors from all three extraction points. No follow-up actions were warranted during any of the Inspection/Maintenance events.

7.0 OVERALL PRR CONCLUSIONS AND RECOMMENDATIONS

The following sections present conclusions from inspections and maintenance activities and summarize recommendations for modifications the SSDS and the Monitoring Plan and O&M Compliance Plan.

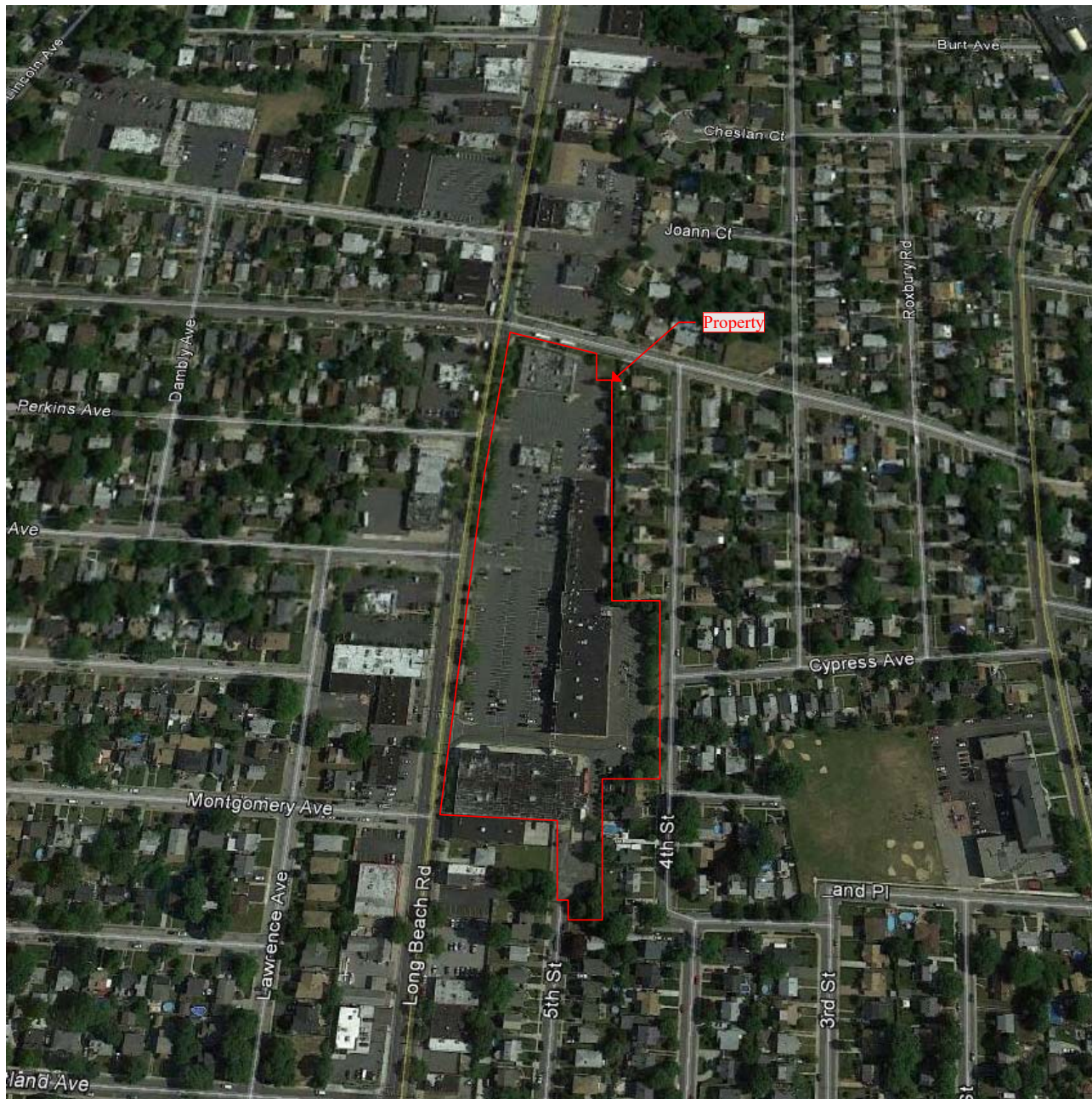
7.1 Conclusions

Monitoring activities indicates the system is effective in protecting human health and the environment.

7.2 Recommendations

It is recommended that the Monitoring Program sampling be conducted during the 2024/2025 heating season. Sampling will be conducted in accordance with the 2006 NYSDOH Soil Vapor Intrusion Guidance document, with the SSDS being shutdown for a minimum of 60 days prior to sampling.

FIGURES



235 North Duke Street, Lancaster, PA 17602
 Phone: (717) 735-9508 / Fax: (717) 735-9509
www.relianceenv.com

Figure 1:
 Site Location Map

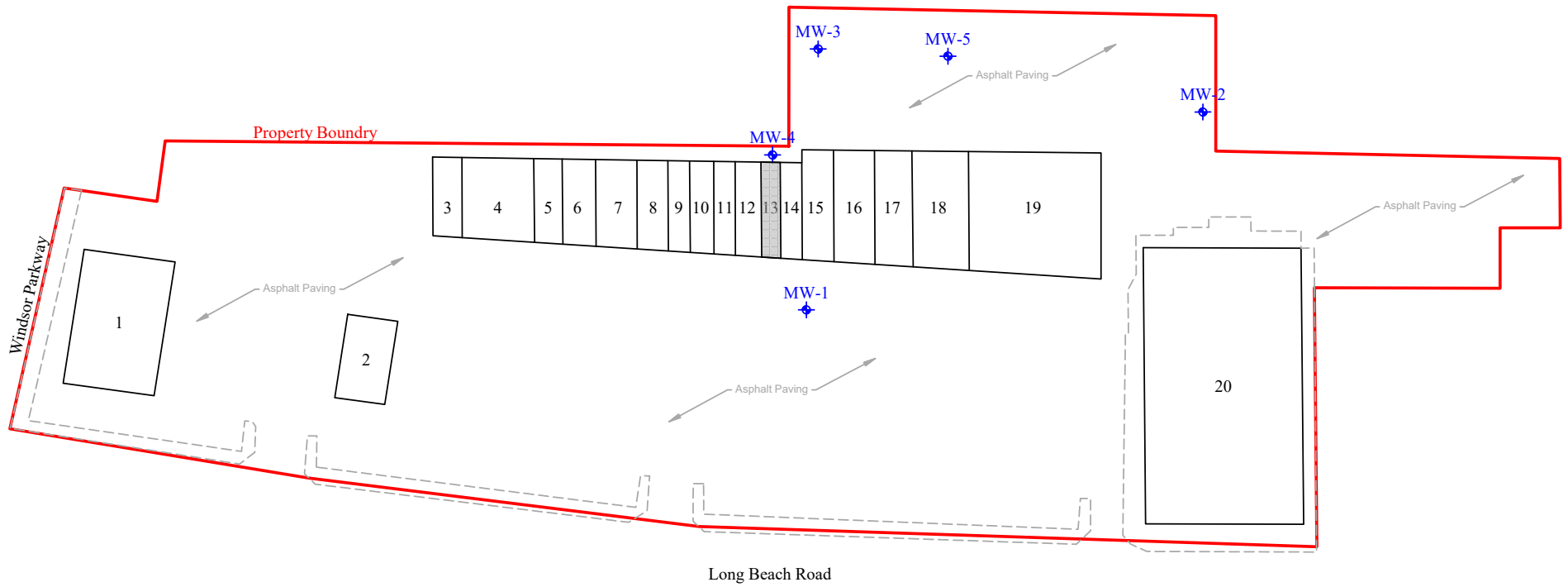
Google Earth (June 17, 2010)

Oceanside Plaza

3131-3221 Long Beach Road, Oceanside, NY

Town of Hempstead, Nassau County

Scale: 1" = 350'



- 1 : Metro Therapy/UrgentVet
- 2 : Kravit Jewelers
- 3 : Massage Envy
- 4 : Capri Nail & Spa
- 5 : Chipotle Mexican Grill
- 6 : Chipotle Mexican Grill
- 7 : Gamestop
- 8 : AT&T
- 9 : Aesthetix
- 10 : Temptations Boutique
- 11 : Nassau Vision Center
- 12 : The Wine Cellar
- 13 : Hear USA
(Former Dry Cleaner)
- 14 : Swirls & Twirls Yogurt
- 15 : Cobbs Bread
- 16 : Pizziola Italian Restaurant
- 17 : Thriftway Card & Gift
- 18 : Jovia Financial Credit Unio
- 19 : Vacant
- 20 : TJ Maxx



◆: Groundwater Monitoring Well

Reliance Environmental, Inc

235 North Duke Street, Lancaster, PA 17602
Phone: (717) 735-9508 / Fax: (717) 735-9509
www.relianceenv.com

Figure 2:
Subject Site Plan

Oceanside Plaza

3131-3221 Long Beach Road, Oceanside, NY

Town of Hempstead, Nassau County

Not to Scale

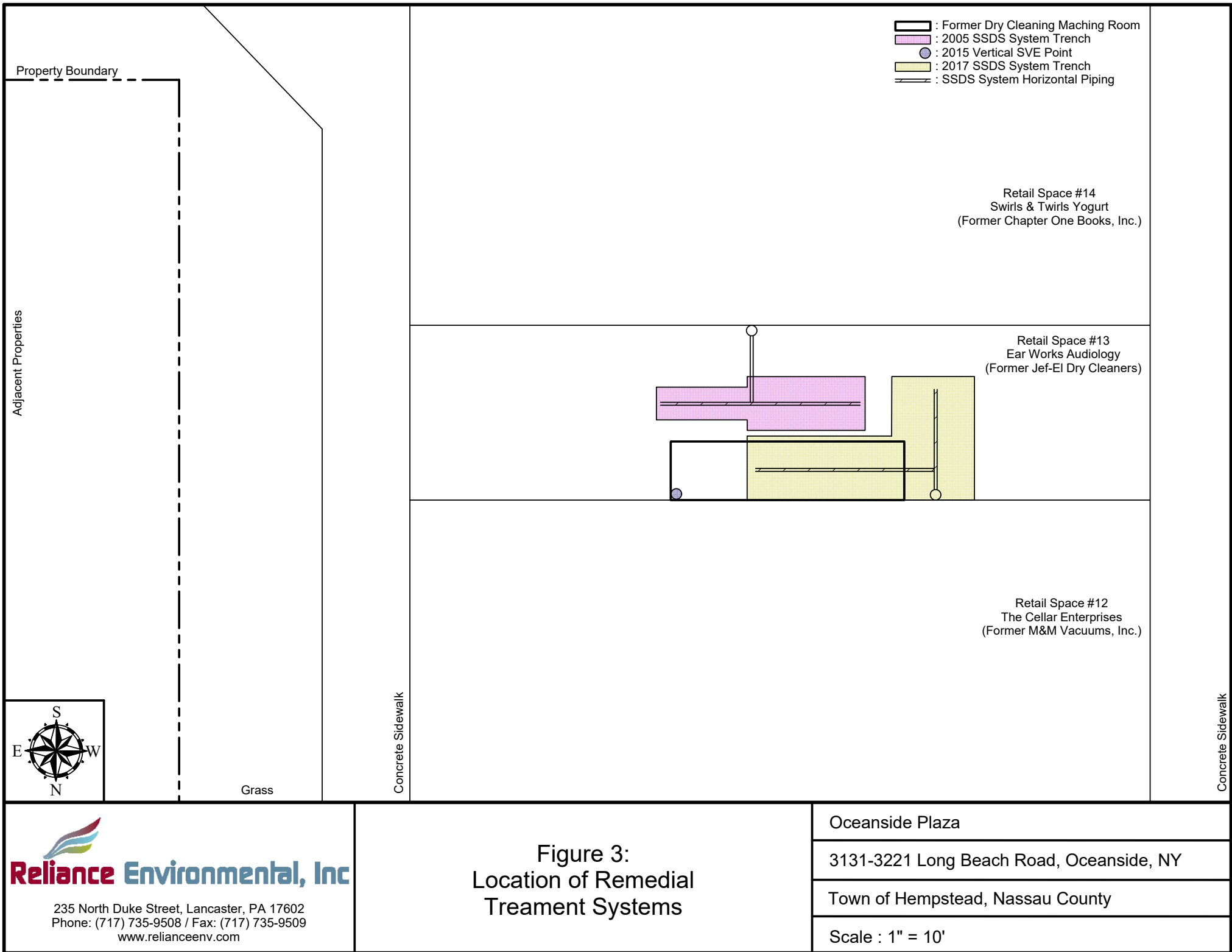


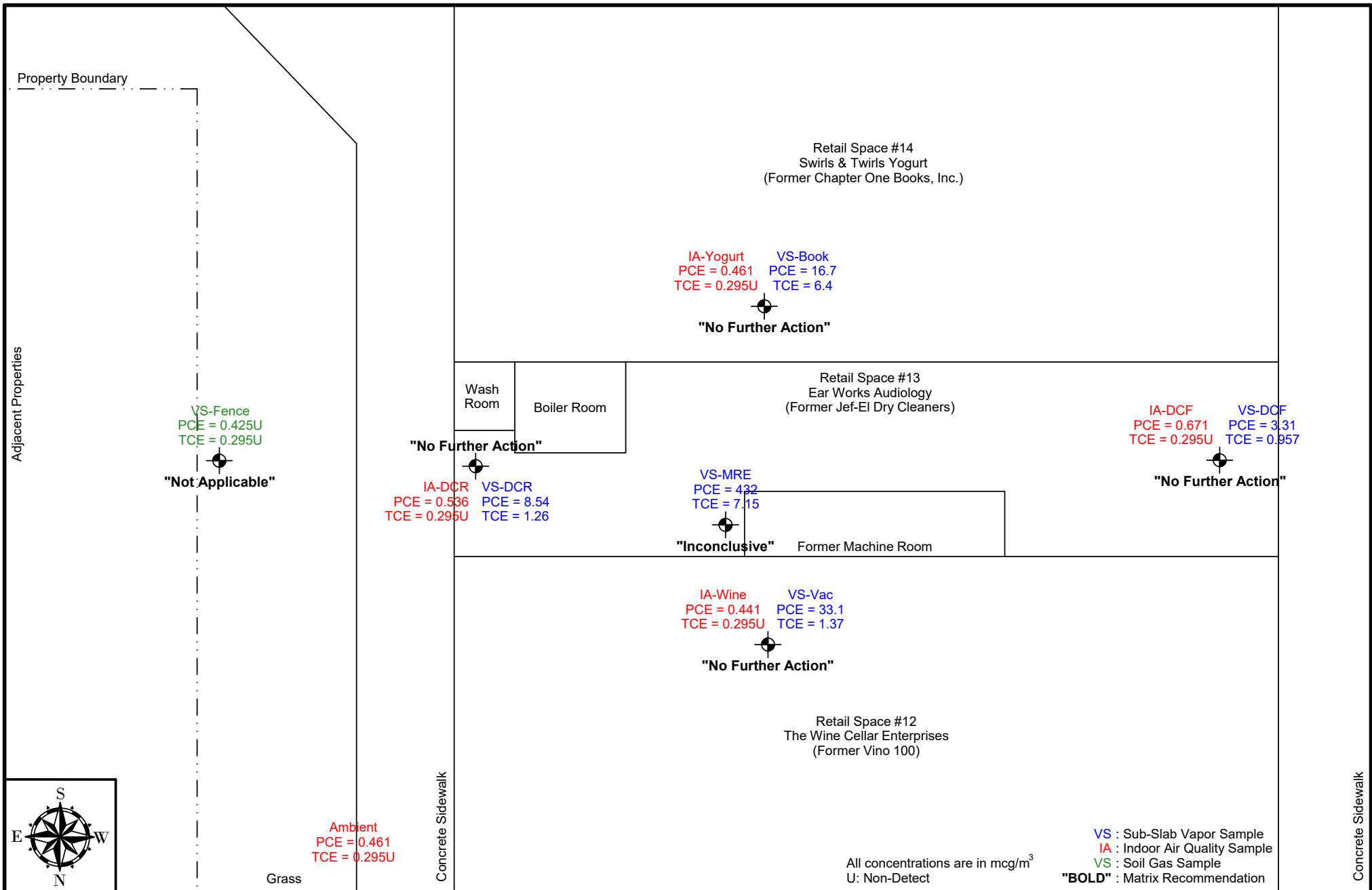
Figure 3:
Location of Remedial
Treatment Systems

Oceanside Plaza

3131-3221 Long Beach Road, Oceanside, NY

Town of Hempstead, Nassau County

Scale : 1" = 10'



TABLES

TABLE 1 Remedial Investigation Soil Contamination Summary Oceanside Plaza (NYSDEC Site Number: C130158) 3131-3221 Long Beach Road, Town of Hempstead, Nassau County, New York								
Sample ID	Sample Date	Sample Depth (feet)	1,1-Dichloroethene (mg/kg)	cis-1,2-Dichloroethene (mg/kg)	Tetrachloroethene (mg/kg)	Toluene (mg/kg)	Trichloroethene (mg/kg)	Vinyl Chloride (mg/kg)
SCO ^a	na	na	0.33	0.25	1.3	0.70	0.47	0.02
BK-Ocean-1	7/13/2004	8	ND	ND	ND	ND	ND	ND
BK-Ocean-2	7/13/2004	6	ND	ND	0.51	ND	ND	ND
BK-Ocean-3	7/13/2004	6	ND	ND	0.67	ND	ND	ND
BK-Ocean-4	7/13/2004	2	ND	ND	85	ND	0.11	ND
BKO-1	2/23/2005	1	ND	ND	0.41	ND	ND	ND
		3	ND	ND	0.075	ND	ND	ND
BKO-2	2/23/2005	1	ND	ND	0.20	ND	ND	ND
		3	ND	ND	0.14	ND	ND	ND
BKO-3	2/23/2005	1	ND	ND	1.6	ND	0.0017	ND
		3	ND	ND	0.057	ND	ND	ND
		7	ND	ND	0.016	ND	ND	ND
BKO-SB1 ^b	10/1/2007	3	ND	ND	ND	4.1	ND	ND
BKO-SB2	10/1/2007	18	ND	ND	0.52	ND	ND	ND
BKO-SB3	10/1/2007	12	ND	ND	740	ND	ND	ND
BKO-SB4	10/1/2007	18	ND	ND	1,200	ND	ND	ND
E1	12/20/10	39	ND	ND	ND	ND	ND	ND
		80 ^c	ND	ND	ND	ND	ND	ND
E2	12/20/10	51	ND	ND	0.031	ND	ND	ND
		80c	ND	ND	ND	ND	ND	ND
E3	12/20/10	42	ND	ND	0.005	ND	ND	ND
		80c	ND	ND	ND	ND	ND	ND
E4	7/21/09	42	ND	ND	1.1	ND	ND	ND
E5	7/21/09	18	ND	ND	1.3	ND	ND	ND
E6	12/20/10	24	ND	ND	0.022	ND	ND	ND
		80c	ND	ND	0.019	ND	ND	ND

^aTrack 1 - Unrestricted Use Soil Cleanup Objectives (Chapter 4, Subpart 375-6, Table 375-6.8(a))

^bCollected from storm water dry well located in the eastern parking lot.

^cSample collected at the soil/water interface.

na = Not Applicable.

ND = Non Detect.

BOLD = Exceeds the Track 1 Soil Cleanup Objectives.

TABLE 2
Remedial Investigation Ground Water Contamination Summary
Oceanside Plaza (NYSDEC Site Number: C130158)
3131-3221 Long Beach Road, Town of Hempstead, Nassau County, New York

Monitoring Well	Sample Date	Depth-to Water (feet)	1,1-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	MTBE
CAS Registry Number			75-35-4	156-59-2	127-18-4	156-60-5	79-01-6	75-01-4	1634-04-4
NYSDEC GWQS ^a			5.0	5.0	5.0	5.0	5.0	2.0	10
MW-1	11/16/2005	5.54	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	2/22/2006	5.77	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	5/17/2006	5.79	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	10/1/2007	6.51	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
MW-2	11/16/2005	6.06	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	12
	2/22/2006	6.28	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	5/17/2006	6.23	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	13
	10/1/2007	6.99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
MW-3	11/16/2005	6.53	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	2/22/2006	6.74	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	5/17/2006	6.78	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	10/1/2007	7.48	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA

NA = Not Analyzed.

All concentrations are reported in µg/l.

^aGround Water Quality Standards (Chapter X, Part 703, §703.5, Table 1)

BOLD = Exceeds the Ground Water Quality Standard.

TABLE 2
Remedial Investigation Ground Water Contamination Summary
Oceanside Plaza (NYSDEC Site Number: C130158)
3131-3221 Long Beach Road, Town of Hempstead, Nassau County, New York

Monitoring Well	Sample Date	Depth-to Water (feet)	1,1-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	MTBE
CAS Registry Number			75-35-4	156-59-2	127-18-4	156-60-5	79-01-6	75-01-4	1634-04-4
NYSDEC GWQS ^a			5.0	5.0	5.0	5.0	5.0	2.0	10
MW-4	11/16/2005	6.60	<2.0	<2.0	360	<2.0	<1.0	<2.0	<2.0
	2/22/2006	6.82	<2.0	<2.0	230	<2.0	<1.0	<2.0	<2.0
	5/17/2006	6.84	<2.0	<2.0	100	<2.0	<1.0	<2.0	<2.0
	10/1/2007	7.57	<5.0	<5.0	110	<5.0	<5.0	<5.0	NA
	7/21/2009	6.90	<0.8	<0.8	77	<0.8	<1.0	<1.0	NA
	10/7/2009	7.33	<5.0	<5.0	21	<5.0	<5.0	<5.0	NA
	1/21/2010	7.09	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	4/7/2010	5.95	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	7/22/2010	7.53	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	1/26/2011	7.05	<5.0	<5.0	11	<5.0	<5.0	<5.0	NA
	7/19/2011	7.49	<5.0	<5.0	10	<5.0	<5.0	<5.0	NA
	10/26/2011	7.00	<5.0	<5.0	10	<5.0	<5.0	<5.0	NA
	1/24/2012	7.13	<5.0	<5.0	11	<5.0	<5.0	<5.0	NA
	4/25/2012	7.23	<5.0	<5.0	9	<5.0	<5.0	<5.0	NA
	7/20/2012	7.21	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	10/18/2012	7.46	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	11/13/2013	7.94	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	3/10/2015	7.02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA
	12/9/2015	7.60	<0.5	<0.5	3	<0.5	<0.5	<0.5	NA

NA = Not Analyzed.

All concentrations are reported in µg/l.

^aGround Water Quality Standards (Chapter X, Part 703, §703.5, Table 1)

BOLD = Exceeds the Ground Water Quality Standard.

TABLE 2
Remedial Investigation Ground Water Contamination Summary
Oceanside Plaza (NYSDEC Site Number: C130158)
3131-3221 Long Beach Road, Town of Hempstead, Nassau County, New York

Monitoring Well	Sample Date	Depth-to Water (feet)	1,1-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	MTBE
CAS Registry Number			75-35-4	156-59-2	127-18-4	156-60-5	79-01-6	75-01-4	1634-04-4
NYSDEC GWQS ^a			5.0	5.0	5.0	5.0	5.0	2.0	10
MW-5	7/21/2009	6.44	<0.8	<0.8	160	<0.8	1.00	<1.0	NA
	10/7/2009	6.88	<5.0	54	74	<5.0	<5.0	17	NA
	1/21/2010	6.64	<5.0	<5.0	80	<5.0	<5.0	<5.0	NA
	4/7/2010	5.49	<5.0	<5.0	37	<5.0	<5.0	<5.0	NA
	7/22/2010	7.06	<5.0	74	69	<5.0	<5.0	<5.0	NA
	1/26/2011	6.56	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	7/19/2011	7.03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	10/26/2011	6.55	<5.0	57	8	<5.0	<5.0	13	NA
	1/24/2012	6.67	<5.0	80	7	<5.0	<5.0	10	NA
	4/25/2012	6.76	<5.0	11	10	<5.0	<5.0	<5.0	NA
	7/20/2012	6.75	<5.0	9	14	<5.0	<5.0	<5.0	NA
	10/18/2012	6.99	<5.0	11	10	<5.0	<5.0	<5.0	NA
	11/13/2013	7.46	<5.0	13	<5.0	<5.0	<5.0	<5.0	NA
	3/10/2015	6.90	<0.5	18	2	<0.5	<0.5	0.8	NA
	12/9/2015	7.16	<0.5	<0.5	3	<0.5	<0.5	<0.5	NA

NA = Not Analyzed.

All concentrations are reported in µg/l.

^aGround Water Quality Standards (Chapter X, Part 703, §703.5, Table 1)

BOLD = Exceeds the Ground Water Quality Standard.

TABLE 2
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Oceanside Plaza (NYSDEC Site Number: C130158)
3131-3221 Long Beach Road, Town of Hempstead, Nassau County, New York

Monitoring Well	Sample Date	Depth-to Water (feet)	1,1-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	MTBE
CAS Registry Number			75-35-4	156-59-2	127-18-4	156-60-5	79-01-6	75-01-4	1634-04-4
NYSDEC GWQS ^a			5.0	5.0	5.0	5.0	5.0	2.0	10
Duplicate (MW-4)	10/1/2007	na	<5.0	<5.0	160	<5.0	<5.0	<5.0	NA
	7/21/2009	na	<0.8	<0.8	75	<0.8	<1.0	<1.0	NA
	10/7/2009	na	<5.0	<5.0	20	<5.0	<5.0	<5.0	NA
	1/21/2010	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	4/7/2010	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	7/22/2010	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	1/26/2011	na	<5.0	<5.0	13	<5.0	<5.0	<5.0	NA
	7/19/2011	na	<5.0	<5.0	10	<5.0	<5.0	<5.0	NA
	10/26/2011	na	<5.0	<5.0	10	<5.0	<5.0	<5.0	NA
	1/24/2012	na	<5.0	<5.0	12	<5.0	<5.0	<5.0	NA
	4/25/2012	na	<5.0	<5.0	9	<5.0	<5.0	<5.0	NA
	7/20/2012	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	10/18/2012	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	11/13/2013	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	3/10/2015	na	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA
	12/9/2015	na	<0.5	<0.5	3	<0.5	<0.5	<0.5	NA

NA = Not Analyzed.

All concentrations are reported in µg/l.

^aGround Water Quality Standards (Chapter X, Part 703, §703.5, Table 1)

BOLD = Exceeds the Ground Water Quality Standard.

TABLE 2
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3131-3221 Long Beach Road, Town of Hempstead, Nassau County, New York

Monitoring Well	Sample Date	Depth-to Water (feet)	1,1-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	MTBE
CAS Registry Number			75-35-4	156-59-2	127-18-4	156-60-5	79-01-6	75-01-4	1634-04-4
NYSDEC GWQS ^a			5.0	5.0	5.0	5.0	5.0	2.0	10
Field Blank	11/16/2005	na	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	2/22/2006	na	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	5/17/2006	na	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	10/1/2007	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	7/21/2009	na	<0.8	<0.8	<0.8	<0.8	<1.0	<1.0	NA
	10/7/2009	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	1/21/2010	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	4/7/2010	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	7/22/2010	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	1/26/2011	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	7/19/2011	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	10/26/2011	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	1/24/2012	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	4/25/2012	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	7/20/2012	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	10/18/2012	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	11/13/2013	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	3/10/2015	na	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA
	12/9/2015	na	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA

NA = Not Analyzed.

All concentrations are reported in µg/l.

^aGround Water Quality Standards (Chapter X, Part 703, §703.5, Table 1)

BOLD = Exceeds the Ground Water Quality Standard.

TABLE 2
Remedial Investigation Ground Water Contamination Summary
Oceanside Plaza (NYSDEC Site Number: C130158)
3131-3221 Long Beach Road, Town of Hempstead, Nassau County, New York

Monitoring Well	Sample Date	Depth-to Water (feet)	1,1-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	MTBE
CAS Registry Number			75-35-4	156-59-2	127-18-4	156-60-5	79-01-6	75-01-4	1634-04-4
NYSDEC GWQS ^a			5.0	5.0	5.0	5.0	5.0	2.0	10
Trip Blank	11/16/2005	na	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	2/22/2006	na	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	5/17/2006	na	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	10/1/2007	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	7/21/2009	na	<0.8	<0.8	<0.8	<0.8	<1.0	<1.0	NA
	10/7/2009	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	1/21/2020	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	4/7/2010	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	7/22/2010	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	1/26/2011	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	7/19/2011	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	10/26/2011	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	1/24/2012	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	4/25/2012	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	7/20/2012	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	10/18/2012	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	11/13/2013	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	3/10/2015	na	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA
	12/9/2015	na	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA

NA = Not Analyzed.

All concentrations are reported in µg/l.

^aGround Water Quality Standards (Chapter X, Part 703, §703.5, Table 1)

BOLD = Exceeds the Ground Water Quality Standard.

TABLE 3 Indoor Air Sampling Laboratory Analytical Data Oceanside Plaza (NYSDEC Site Number: C130158) 3131-3221 Long Beach Road, Town of Hempstead, Nassau County, New York								
Sample Location	Sample Date	1,1-Dichloroethene	1,2-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride
Air Guideline Value ^a		DNE	DNE	DNE	30	DNE	2	DNE
Chapter One Books, Inc. (Retail Space 14)	12/6/2007	0.63U	0.63U	0.63U	88	0.63U	5.9	0.41U
	9/2/2009	2U	2U	2U	500	2U	2.7U	1.3U
	10/28/2009	0.63U	0.63U	0.63U	11	0.63U	0.86U	0.41U
	1/13/2012	0.79U	0.79U	0.79U	2.3	0.79U	0.21U	0.51U
	3/1/2012	0.79U	0.79U	0.79U	32	0.79U	0.21U	0.51U
	12/18/2012	0.79U	0.79U	0.79U	8.1	0.79U	0.33	0.51U
	3/20/2014	0.079U	0.099	0.079U	2.62	0.099	0.134	0.051U
	3/25/2015	0.079U	0.167	0.079U	39.8	0.167	0.231	0.051U
	9/21/2015	0.079U	0.079U	0.079U	9.9	0.079U	0.296	0.051U
	2/22/2018	0.079U	0.079U	0.079U	0.366	0.079U	0.107U	0.051U
	4/27/2018	0.079U	0.079U	0.079U	0.163	0.079U	0.107U	0.051U
	12/4/2018	0.079U	0.079U	0.079U	0.651	0.079U	0.107U	0.051U
	3/9/2020	0.079U	0.147	0.079U	0.536	0.147	0.107U	0.051U
	3/11/2022	0.180U	0.180U	0.180U	0.570	0.180U	0.245U	0.116U
	11/29/2022	0.079U	0.079U	0.079U	0.637	0.079U	0.107U	0.051U
	1/11/2023	0.079U	0.079U	0.079U	0.556	0.079U	0.107U	0.051U
	1/18/2024	0.225U	0.236U	0.236U	0.461	0.299U	0.295U	0.149U
Vino 100 (Retail Space 12)	12/6/2007	0.63U	0.63U	0.63U	2.6	0.63U	0.86U	0.41U
	9/2/2009	4U	4U	4U	880	4U	5.4U	2.6U
	10/28/2009	0.63U	0.63U	0.63U	7.5	0.63U	0.86U	0.41U
	1/13/2012	0.79U	0.79U	0.79U	5.2	0.79U	0.21U	0.51U
	3/1/2012	0.79U	0.79U	0.79U	28	0.79U	0.21U	0.51U
	12/18/2012	0.79U	0.79U	0.79U	13	0.79U	0.21U	0.51U
	3/20/2014	0.079U	0.079U	0.079U	3.4	0.079U	0.107U	0.051U
	3/25/2015	0.079U	0.079U	0.079U	3.31	0.079U	0.107U	0.051U
	9/21/2015	0.079U	0.079U	0.079U	16.7	0.079U	0.107U	0.051U
	2/22/2018	0.079U	0.079U	0.079U	0.475	0.079U	0.107U	0.051U
	4/27/2018	0.079U	0.079U	0.079U	0.366	0.079U	0.107U	0.051U
	12/4/2018	0.079U	0.079U	0.079U	0.441	0.079U	0.107U	0.051U
	3/9/2020	0.079U	0.127	0.079U	0.502	0.127	0.107U	0.051U
	3/11/2022	0.207U	0.207U	0.207U	1.32	0.207U	0.28U	0.133U
	11/29/2022	0.079U	0.079U	0.079U	0.698	0.079U	0.107U	0.051U
	1/11/2023	0.216U	0.216U	0.216U	0.389	0.216U	0.293U	0.14U
	1/18/2024	0.225U	0.236U	0.236U	0.441	0.299U	0.295U	0.149U

All concentrations are reported in micrograms per cubic meter (µg/m³).

^aNYSDOH "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" (Indoor Air Quality Only).

DNE = Does Not Exist.

TABLE 3 Indoor Air Sampling Laboratory Analytical Data Oceanside Plaza (NYSDEC Site Number: C130158) 3131-3221 Long Beach Road, Town of Hempstead, Nassau County, New York								
Sample Location	Sample Date	1,1-Dichloroethene	1,2-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride
Air Guideline Value ^a		DNE	DNE	DNE	30	DNE	2	DNE
Jef-El Dry Cleaners (DCR) (Retail Space 13)	9/21/2015	0.079U	0.079U	0.079U	117	0.079U	0.403	0.051U
	2/22/2018	0.079U	0.079U	0.079U	0.224	0.079U	0.107U	0.051U
	4/27/2018	0.079U	0.079U	0.079U	0.136	0.079U	0.107U	0.051U
	12/4/2018	0.079U	0.079U	0.079U	0.99	0.079U	0.107U	0.051U
	3/9/2020	0.079U	0.210	0.079U	3.04	0.210	0.107U	0.051U
	3/11/2022	0.079U	0.079U	0.079U	2.58	0.079U	0.161	0.051U
	11/29/2022	0.079U	0.079U	0.079U	2.71	0.079U	0.107U	0.051U
	1/11/2023	0.079U	0.079U	0.079U	5.84	0.079U	0.107U	0.051U
	1/18/2024	0.225U	0.236U	0.236U	0.536	0.299U	0.295U	0.149U
Jef-El Dry Cleaners (DCF) (Retail Space 13)	9/21/2015	0.079U	0.079U	0.079U	60.5	0.079U	0.242	0.051U
	2/22/2018	0.079U	0.079U	0.079U	0.21	0.079U	0.107U	0.051U
	4/27/2018	0.079U	0.079U	0.079U	0.136U	0.079U	0.107U	0.051U
	12/4/2018	0.079U	0.079U	0.079U	1.07	0.079U	0.107U	0.051U
	3/9/2020	0.079U	0.194	0.079U	3.31	0.194	0.107U	0.051U
	3/11/2022	0.116U	0.116U	0.116U	2.41	0.116U	0.157U	0.051U
	22/29/22	0.079U	0.079U	0.079U	4.26	0.079U	0.107U	0.051U
	1/11/2023	0.079U	0.079U	0.079U	8.68	0.079U	0.107U	0.051U
	1/18/2024	0.225U	0.236U	0.236U	0.671	0.299U	0.295U	0.149U

All concentrations are reported in micrograms per cubic meter (µg/m³).

^aNYSDOH "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" (Indoor Air Quality Only).

DNE = Does Not Exist.

TABLE 4 Sub-Slab Vapor Sampling Laboratory Analytical Data Oceanside Plaza (NYSDEC Site Number: C130158) 3131-3221 Long Beach Road, Town of Hempstead, Nassau County, New York								
Sample Location	Sample Date	1,1-Dichloroethene	1,2-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride
Chapter One Books, Inc. (Retail Space 14)	12/6/2007	48U	48U	48U	8,100	48U	64U	31U
	10/28/2009	0.63U	0.63U	0.63U	2.5	0.63U	0.86U	0.41U
	1/13/2012	0.79U	0.79U	0.79U	467	0.79U	7	0.51U
	3/1/2012	3.2U	3.1U	3.2U	232	3.2U	1.2	2U
	12/18/2012	3.2U	3.1U	3.2U	131	3.2U	0.86U	2U
	3/20/2014	0.793U	0.793U	0.793U	187	0.793U	1.07U	0.511U
	3/25/2015	0.793U	0.793U	0.793U	4.92	0.793U	1.07U	0.511U
	9/21/2015	0.159U	0.159U	0.159U	363	0.159U	1.76	0.102U
	2/22/2018	0.793U	0.793U	0.793U	5.62	0.793U	1.07U	0.511U
	4/27/2018	0.079U	0.079U	0.079U	6.2	0.079U	0.118	0.051U
	12/4/2018	0.159U	0.159U	0.159U	827	0.159U	1.31	0.102U
	3/9/2020	0.079U	0.079U	0.079U	685	0.079U	1.45	0.051U
	3/11/2022	0.079U	0.464	0.369	1.37	0.095	0.183	0.051U
	11/29/2022	0.099U	0.099U	0.099U	1.86	0.099U	0.502	0.064U
	1/11/2023	0.079U	0.079U	0.079U	46.1	0.079U	0.124	0.051U
	1/18/2024	0.225U	0.236U	0.236U	16.7	0.299U	6.4	0.149U
Vino 100 (Retail Space 12)	12/6/2007	120U	120U	120U	18,000	120U	160U	77U
	10/28/2009	0.63U	0.63U	0.63U	2.4	0.63U	0.86U	0.41U
	1/13/2012	0.79U	0.79U	0.79U	4,180	0.79U	78.5	0.51U
	3/1/2012	44U	43U	44U	21,100	44U	97.8	28U
	12/18/2012	13U	13U	13U	9,830	13U	36U	8.2U
	3/20/2014	3.96U	3.96U	3.96U	2,070	3.96U	11.8	2.56U
	3/25/2015	0.793U	0.793U	0.793U	66.3	0.793U	1.07U	0.511U
	9/21/2015	0.396U	0.396U	0.396U	1,660	0.396U	10.5	0.256U
	2/22/2018	0.793U	0.793U	0.793U	438	0.793U	2.79	0.511U
	4/27/2018	0.079U	0.079U	0.079U	228	0.079U	1.39	0.051U
	12/4/2018	0.396U	0.396U	0.396U	1,260	0.396U	4.03	0.256U
	3/9/2020	1.39U	1.39U	1.39U	4,980	1.39U	24.7	0.895U
	3/11/2022	0.079U	0.079U	0.079U	25.6	0.079U	0.688	0.051U
	11/29/2022	0.079U	0.079U	0.079U	3.09	0.079U	0.220	0.051U
	1/11/2023	0.079U	0.079U	0.079U	19.4	0.079U	0.564	0.051U
	1/18/2024	0.225U	0.236U	0.236U	33.1	0.299U	1.37	0.149U

All concentrations are reported in micrograms per cubic meter (µg/m³).
DNE = Does Not Exist.

TABLE 4 Sub-Slab Vapor Sampling Laboratory Analytical Data Oceanside Plaza (NYSDEC Site Number: C130158) 3131-3221 Long Beach Road, Town of Hempstead, Nassau County, New York								
Sample Location	Sample Date	1,1-Dichloroethene	1,2-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride
Jef-El Dry Cleaners (DCF) (Retail Space 13)	12/6/2007	1.2U	1.2U	1.2U	350	1.2U	2.5	0.77U
	10/28/2009	0.63U	0.63U	0.63U	2.2	0.63U	0.86U	0.41U
	1/13/2012	0.79U	0.79U	0.79U	150	0.79U	2.6	0.51U
	3/1/2012	3.2U	3.1U	3.2U	766	3.2U	3.7	2U
	12/18/2012	3.2U	3.1U	3.2U	11	3.2U	0.86U	2U
	3/20/2014	0.793U	0.793U	0.793U	4.62	0.793U	1.07U	0.511U
	3/25/2015	0.793U	0.793U	0.793U	21.9	0.793U	1.07U	0.511U
	9/21/2015	0.079U	0.079U	0.079U	78	0.079 U	0.43	0.072
	2/22/2018	0.793U	0.793U	0.793U	1.36U	0.793U	1.07U	0.511U
	4/27/2018	0.079U	0.079U	0.079U	1.76	0.079U	0.683	0.051U
	12/4/2018	0.079U	0.079U	0.079U	26.7	0.079U	0.124	0.051U
	3/9/2020	0.079U	0.079U	0.079U	30.2	0.079U	0.134	0.051U
	3/11/2022	0.109U	0.109U	0.109U	0.557	0.109U	0.147U	0.070U
	11/29/2022	0.079U	0.079U	0.079U	2.36	0.079U	0.107U	0.051U
	1/11/2023	0.079U	0.079U	0.079U	6.04	0.079U	0.107U	0.051U
	1/18/2024	0.225U	0.236U	0.236U	3.31	0.299U	0.957	0.149U
Jef-El Dry Cleaners (DCR) (Retail Space 13)	12/6/2007	320U	320U	320U	81,000	320U	430U	200U
	10/28/2009	0.63U	0.63U	0.63U	2.9	0.63U	0.86U	0.41U
	1/13/2012	0.79U	0.79U	0.79U	3,480	0.79U	21	0.51U
	3/1/2012	3.2U	3.1U	3.2U	1,990	3.2U	2.2	2U
	12/18/2012	3.2U	3.1U	3.2U	164	3.2U	0.86U	2U
	3/20/2014	0.793U	0.793U	0.793U	148	0.793U	1.07U	0.511U
	3/25/2015	0.793U	0.793U	0.793U	8.88	0.793U	1.07U	0.511U
	9/21/2015	0.396U	0.396U	0.396U	1,520	0.396U	5.59	0.256U
	2/22/2018	0.793U	0.793U	0.793U	8.48	0.793U	1.07U	0.511U
	4/27/2018	0.079U	0.079U	0.079U	6.4	0.079U	0.93	0.051U
	12/4/2018	0.079U	0.079U	0.079U	195	0.079U	0.478	0.051U
	3/9/2020	0.117U	0.117U	0.117U	821	0.117U	2.61	0.075U
	3/11/2022	0.079U	0.079U	0.079U	0.909	0.079U	0.107	0.051U
	11/29/2022	0.079U	0.079U	0.079U	29.3	0.079U	0.226	0.051U
	1/11/2023	0.079U	0.079U	0.079U	99.7	0.079U	0.258	0.051U
	1/18/2024	0.225U	0.236U	0.236U	8.54	0.299U	1.26	0.149U

All concentrations are reported in micrograms per cubic meter (µg/m³).
DNE = Does Not Exist.

TABLE 4 Sub-Slab Vapor Sampling Laboratory Analytical Data Oceanside Plaza (NYSDEC Site Number: C130158) 3131-3221 Long Beach Road, Town of Hempstead, Nassau County, New York								
Sample Location	Sample Date	1,1-Dichloroethene	1,2-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride
Jef-EI Dry Cleaners (MRE) (Retail Space 13)	12/6/2007	280U	280U	280U	50,000	280U	380	180U
	9/4/2009	3.2U	3.2U	3.2U	37	3.2U	51	2U
	10/28/2009	0.63U	0.63U	0.63U	2.5	0.63U	15	0.41U
	1/13/2012	0.79U	0.79U	0.79U	1,080	0.79U	56.4	0.51U
	3/1/2012	3.2U	3.1U	3.2U	902	3.2U	3.5	2U
	12/18/2012	3.2U	3.1U	3.2U	205	3.2U	0.86U	2U
	3/20/2014	1.98U	1.98U	1.98U	963	1.98U	9.14	1.28U
	3/25/2015	0.793U	0.793U	0.793U	23.2	0.793U	1.07U	0.511U
	9/21/2015	0.793U	0.793U	0.793U	2,820	0.793U	15.2	0.511U
	2/22/2018	0.793U	0.793U	0.793U	54.6	0.793U	1.07	0.511U
	4/27/2018	0.079U	0.079U	0.079U	67.1	0.079U	1.41	0.051U
	12/4/2018	0.396U	0.396U	0.396U	1,210	0.396U	9.78	0.256U
	3/9/2020	0.283U	0.283U	0.283U	2,370	0.283U	16.2	0.183U
	3/11/2022	0.079U	0.079U	0.079U	9.43	0.079U	0.441	0.051U
	11/29/2022	0.079U	0.079U	0.079U	125	0.079U	1.66	0.051U
	1/11/2023	0.793U	0.793U	0.793U	1,380	0.793U	6.02	0.511U
	1/18/2024	0.225U	0.236U	0.236U	432	0.299U	7.15	0.149U
Jef-EI Dry Cleaners (Fence) (Retail Space 13)	12/6/2007	1.2U	1.2U	1.2U	240	1.2U	1.6U	0.77U
	1/13/2012	0.79U	0.79U	0.79U	46	0.79U	0.39	0.51U
	3/1/2012	3.2U	3.1U	3.2U	224	3.2U	0.86U	2U
	12/18/2012	3.2U	3.1U	3.2U	1.1U	3.2U	0.86U	2U
	3/20/2014	0.793U	0.793U	0.793U	1.36U	0.793U	1.07U	0.511U
	3/25/2015	0.793U	0.793U	0.793U	10.7	0.793U	1.07U	0.511U
	9/21/2015	0.079U	0.079U	0.079U	102	0.079U	0.113	0.102
	2/22/2018	0.793U	0.793U	0.793U	3.99	0.793U	1.07U	0.511U
	4/27/2018	0.079U	0.079U	0.079U	0.136	0.079U	0.994	0.051U
	12/4/2018	0.722U	0.722U	0.722U	1060J	0.722U	0.978U	0.465U
	3/9/2020	0.079U	0.079U	0.079U	94.9	0.079U	0.107U	0.051U
	3/11/2022	0.137U	0.150	0.150	2.03	0.137U	0.185U	0.088U
	11/29/2022	0.079U	0.079U	0.079U	11.7	0.079U	0.258	0.051U
	1/11/2023	0.095U	0.095U	0.095U	10.3	0.095U	0.129U	0.061U
	1/18/2024	0.225U	0.236U	0.236U	0.425U	0.299U	0.295U	0.149U

All concentrations are reported in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$).
DNE = Does Not Exist.

TABLE 4 Ambient Air Sampling Laboratory Analytical Data Oceanside Plaza (NYSDEC Site Number: C130158) 3131-3221 Long Beach Road, Town of Hempstead, Nassau County, New York								
Sample Location	Sample Date	1,1-Dichloroethene	1,2-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride
AMB	12/6/2007	0.63U	0.63U	0.63U	1.1U	0.63U	0.86U	0.41U
	9/2/2009	0.63U	0.63U	0.63U	1.1U	0.63U	0.86U	0.41U
	6/14/2010	0.63U	0.63U	0.63U	13	0.63U	1.40	0.41U
	1/13/2012	0.79U	0.79U	0.79U	0.6	0.79U	0.21U	0.51U
	3/1/2012	0.79U	0.79U	0.79U	0.57	0.79U	0.21U	0.51U
	12/18/2012	0.79U	0.79U	0.79U	1.2	0.79U	0.21U	0.51U
	9/21/2015	0.079U	0.079U	0.079U	0.197	0.07 U	0.107U	0.051U
	2/22/2018	0.079U	0.079U	0.079	0.19	0.079U	0.107U	0.051U
	4/27/2018	0.079U	0.079U	0.079U	0.136U	0.079U	0.107U	0.051U
	12/4/2018	0.079U	0.079U	0.07U	0.176	0.079U	0.107U	0.051U
	3/9/2020	0.079U	0.127	0.07U	0.38	0.127	0.107U	0.051U
	3/11/2022	0.079U	0.079U	0.07U	0.475	0.079U	0.156	0.051U
	11/29/2022	0.079U	0.079U	0.07U	0.325	0.079U	0.107U	0.051U
	1/11/2023	0.079U	0.079U	0.07U	0.136U	0.079U	0.107U	0.051U
	1/18/2024	0.22 U	0.236U	0.23U	0.461	0.299U	0.295U	0.149U

All concentrations are reported in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$).
DNE = Does Not Exist.

APPENDIX A
IC/EC CERTIFICATION

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation

625 Broadway, 11th Floor, Albany, NY 12233-7020

P: (518)402-9543 | F: (518)402-9547

www.dec.ny.gov

4/25/2024

Steven Kaufman
Oceanside Plaza, LLC
151 Irving Place
Woodmere, NY 11598
steven@basserkaufman.com

Re: Reminder Notice: Site Management Periodic Review Report and IC/EC Certification Submittal

Site Name: Oceanside Plaza

Site No.: C130158

Site Address: 3131-3221 Long Beach Road
Oceanside, NY 11572

Dear Steven Kaufman:

This letter serves as a reminder that sites in active Site Management (SM) require the submittal of a periodic progress report. This report, referred to as the Periodic Review Report (PRR), must document the implementation of, and compliance with, site-specific SM requirements. Section 6.3(b) of DER-10 *Technical Guidance for Site Investigation and Remediation* (available online at <http://www.dec.ny.gov/regulations/67386.html>) provides guidance regarding the information that must be included in the PRR. Further, if the site is comprised of multiple parcels, then you as the Certifying Party must arrange to submit one PRR for all parcels that comprise the site. The PRR must be received by the Department no later than **June 03, 2024**. Guidance on the content of a PRR is enclosed.

Site Management is defined in regulation (6 NYCRR 375-1.2(at)) and in Chapter 6 of DER-10. Depending on when the remedial program for your site was completed, SM may be governed by multiple documents (e.g., Operation, Maintenance, and Monitoring Plan; Soil Management Plan) or one comprehensive Site Management Plan.

A Site Management Plan (SMP) may contain one or all of the following elements, as applicable to the site: a plan to maintain institutional controls and/or engineering controls ("IC/EC Plan"); a plan for monitoring the performance and effectiveness of the selected remedy ("Monitoring Plan"); and/or a plan for the operation and maintenance of the selected remedy ("O&M Plan"). Additionally, the technical requirements for SM are stated in the decision document (e.g., Record of Decision) and, in some cases, the legal agreement directing the remediation of the site (e.g., order on consent, voluntary agreement, etc.).

When you submit the PRR (by the due date above), include the enclosed forms documenting that all SM requirements are being met. The Institutional Controls (ICs) portion of the form (Box 6) must be signed by you or your designated representative. The Engineering Controls (ECs) portion of the form (Box 7) must be signed by a Professional Engineer (PE). If you cannot certify that all SM requirements are being met, you must submit a Corrective Measures Work Plan that identifies the actions to be taken to restore compliance. The work plan must include a schedule to be approved by the Department. The Periodic Review process will not be considered complete until all necessary corrective measures are completed and all required controls are certified. Instructions for completing the certifications are enclosed.



**Department of
Environmental
Conservation**

All site-related documents and data, including the PRR, must be submitted in electronic format to the Department of Environmental Conservation. The required format for documents is an Adobe PDF file with optical character recognition and no password protection. Data must be submitted as an electronic data deliverable (EDD) according to the instructions on the following webpage:

<https://www.dec.ny.gov/chemical/62440.html>

Documents may be submitted to the project manager either through electronic mail or by using the Department's file transfer service at the following webpage:

<https://fts.dec.state.ny.us/fts/>

The Department will not approve the PRR unless all documents and data generated in support of the PRR have been submitted using the required formats and protocols.

You may contact Jahan Reza, the Project Manager, at 631-444-0242 or jahan.reza@dec.ny.gov with any questions or concerns about the site. Please notify the project manager before conducting inspections or field work. You may also write to the project manager at the following address:

New York State Department of Environmental Conservation
SUNY at Stony Brook
50 Circle Road
Stony Brook, NY 11790-3409

Enclosures

PRR General Guidance
Certification Form Instructions
Certification Forms

ec: w/ enclosures

Oceanside Plaza Associates, LLC - steven@basserkaufman.com

ec: w/ enclosures

Jahan Reza, Project Manager

Girish Desai, Hazardous Waste Remediation Supervisor, Region 1

Reliance Environmental Inc. - Mark E. Zurich - mez@relianceenv.com

Enclosure 1

Certification Instructions

I. Verification of Site Details (Box 1 and Box 2):

Answer the three questions in the Verification of Site Details Section. The Owner and/or Qualified Environmental Professional (QEP) may include handwritten changes and/or other supporting documentation, as necessary.

II. Certification of Institutional Controls/ Engineering Controls (IC/ECs)(Boxes 3, 4, and 5)

1.1.1. Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Owner / Remedial Party should petition the Department separately to request approval to remove the control.

2. In Box 5, complete certifications for all Plan components, as applicable, by checking the corresponding checkbox.

3. If you cannot certify "YES" for each Control listed in Box 3 & Box 4, sign and date the form in Box 5. Attach supporting documentation that explains why the **Certification** cannot be rendered, as well as a plan of proposed corrective measures, and an associated schedule for completing the corrective measures. Note that this **Certification** form must be submitted even if an IC or EC cannot be certified; however, the certification process will not be considered complete until corrective action is completed.

If the Department concurs with the explanation, the proposed corrective measures, and the proposed schedule, a letter authorizing the implementation of those corrective measures will be issued by the Department's Project Manager. Once the corrective measures are complete, a new Periodic Review Report (with IC/EC Certification) must be submitted within 45 days to the Department. If the Department has any questions or concerns regarding the PRR and/or completion of the IC/EC Certification, the Project Manager will contact you.

III. IC/EC Certification by Signature (Box 6 and Box 7):

If you certified "YES" for each Control, please complete and sign the IC/EC Certifications page as follows:

- For the Institutional Controls on the use of the property, the certification statement in Box 6 shall be completed and may be made by the property owner or designated representative.
- For the Engineering Controls, the certification statement in Box 7 must be completed by a Professional Engineer or Qualified Environmental Professional, as noted on the form.



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



Site No. **C130158** **Site Details** **Box 1**

Site Name **Oceanside Plaza**

Site Address: 3131-3221 Long Beach Road **Zip Code:** 11572

City/Town: Oceanside

County: Nassau

Site Acreage: 7.450

Reporting Period: May 03, 2023 to May 03, 2024

	YES	NO
1. Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☒

	Box 2	
	YES	NO
6. Is the current site use consistent with the use(s) listed below? Unrestricted, Residential, Restricted-Residential, Commercial, and Industrial	☒	☐
7. Are all ICs in place and functioning as designed?	☒	☐

**IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Box 2A

YES NO

8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?

☐ ☒

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid?
(The Qualitative Exposure Assessment must be certified every five years)

☒ ☐

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C130158**Box 3****Description of Institutional Controls**ParcelOwnerInstitutional Control

43-368-18,19, 20, 41 thru 45. Oceanside Plaza Associates, LLC

Ground Water Use Restriction
Landuse Restriction
O&M Plan

IC/EC Plan
Monitoring Plan
Site Management Plan

An environmental easement has been recorded on the property which restricts the use of the property to Restricted Residential use. The use of on-site groundwater is restricted as a source of drinking water or for industrial use without necessary water quality treatment as determined by either the state or local health department. Monitoring of environmental media and operation, maintenance and monitoring of the engineering control must comply with the DEC approved Site Management Plan.

Box 4**Description of Engineering Controls**ParcelEngineering Control

43-368-18,19, 20, 41 thru 45...

Vapor Mitigation

A sub-slab depressurization system was installed to create negative pressure beneath the building's slab and to mitigate soil vapor intrusion in the overlying shopping mall building.

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

- a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;
- b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

☒ ☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

- (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;
- (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;
- (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;
- (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and
- (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

☒ ☐

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C130158

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1, 2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Steven Kaufman at 151 Irving Place, Woodmere NY 11598
print name print business address

am certifying as Member of Oceanside Plaza Associates, LLC (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.


Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

5/7/24
Date

EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Timothy A. Terwilliger at 5322 Primrose Lake Circle, Suite I, Tampa, FL 33647
print name print business address

am certifying as a Professional Engineer for the Oceanside Plaza Associates, LLC
(Owner or Remedial Party)

Timothy A. Terwilliger
Signature of Professional Engineer, for the Owner or
Remedial Party, Rendering Certification



Stamp
(Required for PE)

05/15/2024
Date

Enclosure 3
Periodic Review Report (PRR) General Guidance

- I. Executive Summary: (1/2-page or less)
 - A. Provide a brief summary of site, nature and extent of contamination, and remedial history.
 - B. Effectiveness of the Remedial Program - Provide overall conclusions regarding;
 1. progress made during the reporting period toward meeting the remedial objectives for the site
 2. the ultimate ability of the remedial program to achieve the remedial objectives for the site.
 - C. Compliance
 1. Identify any areas of non-compliance regarding the major elements of the Site Management Plan (SMP, i.e., the Institutional/Engineering Control (IC/EC) Plan, the Monitoring Plan, and the Operation & Maintenance (O&M) Plan).
 2. Propose steps to be taken and a schedule to correct any areas of non-compliance.
 - D. Recommendations
 1. recommend whether any changes to the SMP are needed
 2. recommend any changes to the frequency for submittal of PRRs (increase, decrease)
 3. recommend whether the requirements for discontinuing site management have been met.
- II. Site Overview (one page or less)
 - A. Describe the site location, boundaries (figure), significant features, surrounding area, and the nature and extent of contamination prior to site remediation.
 - B. Describe the chronology of the main features of the remedial program for the site, the components of the selected remedy, cleanup goals, site closure criteria, and any significant changes to the selected remedy that have been made since remedy selection.
- III. Evaluate Remedy Performance, Effectiveness, and Protectiveness

Using tables, graphs, charts and bulleted text to the extent practicable, describe the effectiveness of the remedy in achieving the remedial goals for the site. Base findings, recommendations, and conclusions on objective data. Evaluations and should be presented simply and concisely.
- IV. IC/EC Plan Compliance Report (if applicable)
 - A. IC/EC Requirements and Compliance
 1. Describe each control, its objective, and how performance of the control is evaluated.
 2. Summarize the status of each goal (whether it is fully in place and its effectiveness).
 3. Corrective Measures: describe steps proposed to address any deficiencies in ICECs.
 4. Conclusions and recommendations for changes.
 - B. IC/EC Certification
 1. The certification must be complete (even if there are IC/EC deficiencies), and certified by the appropriate party as set forth in a Department-approved certification form(s).
- V. Monitoring Plan Compliance Report (if applicable)
 - A. Components of the Monitoring Plan (tabular presentations preferred) - Describe the requirements of the monitoring plan by media (i.e., soil, groundwater, sediment, etc.) and by any remedial technologies being used at the site.
 - B. Summary of Monitoring Completed During Reporting Period - Describe the monitoring tasks actually completed during this PRR reporting period. Tables and/or figures should be used to show all data.
 - C. Comparisons with Remedial Objectives - Compare the results of all monitoring with the remedial objectives for the site. Include trend analyses where possible.
 - D. Monitoring Deficiencies - Describe any ways in which monitoring did not fully comply with the monitoring plan.
 - E. Conclusions and Recommendations for Changes - Provide overall conclusions regarding the monitoring completed and the resulting evaluations regarding remedial effectiveness.
- VI. Operation & Maintenance (O&M) Plan Compliance Report (if applicable)
 - A. Components of O&M Plan - Describe the requirements of the O&M plan including required activities, frequencies, recordkeeping, etc.
 - B. Summary of O&M Completed During Reporting Period - Describe the O&M tasks actually completed during this PRR reporting period.
 - C. Evaluation of Remedial Systems - Based upon the results of the O&M activities completed, evaluated

the ability of each component of the remedy subject to O&M requirements to perform as designed/expected.

- D. O&M Deficiencies - Identify any deficiencies in complying with the O&M plan during this PRR reporting period.
- E. Conclusions and Recommendations for Improvements - Provide an overall conclusion regarding O&M for the site and identify any suggested improvements requiring changes in the O&M Plan.

VII. Overall PRR Conclusions and Recommendations

- A. Compliance with SMP - For each component of the SMP (i.e., IC/EC, monitoring, O&M), summarize;
 - 1. whether all requirements of each plan were met during the reporting period
 - 2. any requirements not met
 - 3. proposed plans and a schedule for coming into full compliance.
- B. Performance and Effectiveness of the Remedy - Based upon your evaluation of the components of the SMP, form conclusions about the performance of each component and the ability of the remedy to achieve the remedial objectives for the site.
- C. Future PRR Submittals
 - 1. Recommend, with supporting justification, whether the frequency of the submittal of PRRs should be changed (either increased or decreased).
 - 2. If the requirements for site closure have been achieved, contact the Departments Project Manager for the site to determine what, if any, additional documentation is needed to support a decision to discontinue site management.

VIII. Additional Guidance

Additional guidance regarding the preparation and submittal of an acceptable PRR can be obtained from the Departments Project Manager for the site.

APPENDIX B
SUB-SLAB VAPOR AND INDOOR AIR QUALITY SAMPLING
LABORATORY ANALYTICAL DATA REPORTS – JANUARY 18, 2024



www.alphalab.com



Alpha Analytical

Laboratory Code: 11148

SDG Number: L2403288

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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STD0.5 Injected on: 01/07/24 22:54	523
STD1.0 Injected on: 01/07/24 23:36	529
STD5.0 Injected on: 01/08/24 00:15	535
STD10.0 Injected on: 01/08/24 00:56	541
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IA-WINE (L2403288-09) Analyzed: 01/31/24 19:38	849
IA-YOGURT (L2403288-11) Analyzed: 01/31/24 20:17	855
Volatile Standards Data	860
Initial Calibration	861
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BFB Injected on: 11/20/23 19:17	871
STD0.02 Injected on: 11/20/23 19:52	872
STD0.05 Injected on: 11/20/23 20:28	883
STD0.1 Injected on: 11/20/23 21:07	890
STD0.2 Injected on: 11/20/23 21:44	897
STD0.5 Injected on: 11/20/23 22:22	902
STD1.0 Injected on: 11/20/23 23:03	908
STD5.0 Injected on: 11/20/23 23:42	913
STD010 Injected on: 11/21/23 00:23	921
STD020 Injected on: 11/21/23 01:00	926
STD050 Injected on: 11/21/23 01:39	931
ICV Summary Injected on: 11/21/23 17:20	936
ICV Quant Injected on: 11/21/23 17:20	939
Continuing Calibration	944
Form 7 - Organics	945
CC Summary - AIRLAB15 Run: 01/31/24 12:57	947
CC Quant - WG1880236-2 AIRLAB15 Run: 01/31/24 12:57	950
bfb tune - Inst. AIRLAB15 01/31/24 10:56	957
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Laboratory Method BI (WG1880236-4) Analyzed: 01/31/24 15:02	959
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Duplicate Sample (WG1880236-5) Analyzed: 01/31/24 22:53	976
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QC Batch WG1880236	984
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Project Name: OCEANSIDE PLAZA
Project Number: BK-001

Lab Number: L2403288
Report Date: 02/14/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2403288-01	VS-FENCE	SOIL_VAPOR	Not Specified	01/18/24 16:05	01/19/24
L2403288-02	AMBIENT	AIR	Not Specified	01/18/24 16:08	01/19/24
L2403288-03	VS-DCR	SOIL_VAPOR	Not Specified	01/18/24 16:48	01/19/24
L2403288-04	IA-DCR	AIR	Not Specified	01/18/24 16:50	01/19/24
L2403288-05	VS-DCF	SOIL_VAPOR	Not Specified	01/18/24 16:52	01/19/24
L2403288-06	IA-DCF	AIR	Not Specified	01/18/24 16:54	01/19/24
L2403288-07	VS-MRE	SOIL_VAPOR	Not Specified	01/18/24 16:56	01/19/24
L2403288-08	VS-VAC	SOIL_VAPOR	Not Specified	01/18/24 18:38	01/19/24
L2403288-09	IA-WINE	AIR	Not Specified	01/18/24 18:36	01/19/24
L2403288-10	VS-BOOK	SOIL_VAPOR	Not Specified	01/18/24 18:56	01/19/24
L2403288-11	IA-YOGURT	AIR	Not Specified	01/18/24 18:58	01/19/24

Project Name: OCEANSIDE PLAZA
Project Number: BK-001

Lab Number: L2403288
Report Date: 02/14/24

Case Narrative

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

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

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

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

HOLD POLICY

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

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

Project Name: OCEANSIDE PLAZA
Project Number: BK-001

Lab Number: L2403288
Report Date: 02/14/24

Case Narrative (continued)

Report Revision

February 14, 2024 the report has been amended to report cis-1,2-DCE and Total 1,2-DCE at the request of the client.

Volatile Organics in Air

Canisters were released from the laboratory on January 15, 2024. The canister certification data is provided as an addendum.

Report Submission

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

L2403288-04 and -06: The sample was re-analyzed on dilution in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

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

Authorized Signature:



Report Date: 02/14/24

Title: Technical Director/Representative

GLOSSARY

Acronyms

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

Report Format: DU Report with 'J' Qualifiers



Footnotes

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

Terms

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

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

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

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

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

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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

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

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

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

Data Qualifiers

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

Report Format: DU Report with 'J' Qualifiers



Project Name: OCEANSIDE PLAZA
Project Number: BK-001

Lab Number: L2403288
Report Date: 02/14/24

Data Qualifiers

the identification is based on a mass spectral library search.

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

Report Format: DU Report with 'J' Qualifiers





Volatile Organics Instruments

Volatile Organics:

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

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

Volatile Organics: VPH

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

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

Volatile Organics: PIANO

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

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

Volatile Organics: Dissolved Gas

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

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

Autosampler: LEAP Headspace

Purge time: 0.6 min

Volatile Organics in Air Instruments

Volatile Organics in Air:

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

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

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

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

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



Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

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

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

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

Pesticides/PCB/Herbicides:

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

Petroleum/EPH:

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



Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

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

Semivolatile Organics (8270):

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

Semivolatile Organics (8270 SIM):

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

Semivolatile Organics (1,4-Dioxane):

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

Semivolatile Organics (209 Congener):

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

Semivolatile Organics (8081):

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

Semivolatile Organics (8082):

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

Semivolatile Organics (SHC Extractables):

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



Sample Delivery Group Summary

Alpha Job Number : L2403288

Received : 19-JAN-2024

Reviewer : Jennifer Jerome

Account Name : Reliance Environmental, Inc.

Project Number : BK-001

Project Name : OCEANSIDE PLAZA

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
NA	Absent/			

Condition Information

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

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	NA

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Feb 14 2024, 12:45 pm

Login Number: L2403288

Account: RELIANCEENV Reliance Environmental, Inc. Project: BK-001

Received: 19JAN24 Due Date: 02FEB24

Sample #	Client ID	Mat PR Collected
L2403288-01 VS-FENCE		11 S0 18JAN24 16:05
PA air, report to MDL ASP-B Package Due Date: 02/13/24		
ASP-B, CAN-RENT, ENVIMPACT-FEE, FLOW-RENT, T015-LL		
L2403288-02 AMBIENT		10 S0 18JAN24 16:08
PA air, report to MDL Package Due Date: 02/13/24		
CAN-RENT, FLOW-RENT, T015-LL, T015-SIM		
L2403288-03 VS-DCR		11 S0 18JAN24 16:48
PA air, report to MDL Package Due Date: 02/13/24		
CAN-RENT, FLOW-RENT, T015-LL		
L2403288-04 IA-DCR		10 S0 18JAN24 16:50
PA air, report to MDL Package Due Date: 02/13/24		
CAN-RENT, FLOW-RENT, T015-LL, T015-SIM		
L2403288-05 VS-DCF		11 S0 18JAN24 16:52
PA air, report to MDL Package Due Date: 02/13/24		
CAN-RENT, FLOW-RENT, T015-LL		
L2403288-06 IA-DCF		10 S0 18JAN24 16:54
PA air, report to MDL Package Due Date: 02/13/24		
CAN-RENT, FLOW-RENT, T015-LL, T015-SIM		
L2403288-07 VS-MRE		11 S0 18JAN24 16:56
PA air, report to MDL Package Due Date: 02/13/24		

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Feb 14 2024, 12:45 pm

Login Number: L2403288

Account: RELIANCEENV Reliance Environmental, Inc. Project: BK-001

Received: 19JAN24 Due Date: 02FEB24

Sample # Client ID Mat PR Collected

CAN-RENT, FLOW-RENT, T015-LL

L2403288-08 VS-VAC

11 S0 18JAN24 18:38

PA air, report to MDL Package Due Date: 02/13/24

CAN-RENT, FLOW-RENT, T015-LL

L2403288-09 IA-WINE

10 S0 18JAN24 18:36

PA air, report to MDL Package Due Date: 02/13/24

CAN-RENT, FLOW-RENT, T015-LL, T015-SIM

L2403288-10 VS-BOOK

11 S0 18JAN24 18:56

PA air, report to MDL Package Due Date: 02/13/24

CAN-RENT, FLOW-RENT, T015-LL

L2403288-11 IA-YOGURT

10 S0 18JAN24 18:58

PA air, report to MDL Package Due Date: 02/13/24

CAN-RENT, FLOW-RENT, T015-LL, T015-SIM



Alpha Analytical

320 Forbes Blvd
Mansfield, MA 02048-1806
Tel: 508-822-9300
Fax: 508-822-3288

AIR Chain-of-Custody - NJ

Date Rec'd in Lab 1/20/24

ALPHA Job# L2403288

Client Contact Information		Project Information		NJ DEP Information										1 of 2 COCs					
Company: Reliance Env.		Project Name: Oceanside Plaza		Bureau:		Division:		Contract No:		Analysis		Matrix							
Address: 235 W. Duke St.		Project No: BK-001		Report Information - Data Deliverables:															
City/State/Zip: Lancaster, PA 17602		Site/Location:		☐ FAX:															
Phone: 717-735-9508		Project Manager:		☐ ADEx ☐ Criteria Checker:															
FAX:		Mark Zmich		☐ EMail (standard pdf report)															
Email: meze@relianceenv.com		Analysis Turn-Around Time		Billing Information															
Site Contact:		Standard (Specify)		☐ Same as Client Info PO #:															
Site Contact Phone:		Rush (Specify)																	
ALPHA LAB ID (Lab Use Only)	Sample Identification	Sample Date(s)	Time Start (24 hr clock)	Time Stop (24 hr clock)	Canister Pressure in Field (Hg) (Start)	Canister Pressure in Field (Hg) (Stop)	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Outgoing Canister Pressure (Hg) (Note 1)	Incoming Canister Pressure (Hg) (Note 2)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout (ml/min) (Note 1)	Batch Cert ID (Note 1)	TO-15	EPA 3C	Indoor / Ambient Air	Soil Gas
03288-d	VS-Fence	1/15/24	940	1605	-30.81	-1.23	29.9	37.2	-30.00		01550	3876	2.7	4.5	L2402036-01	X			X
.02	Ambient	1/15/24	943	1608	-30.41	-4.03	29.7	37.2	-30.00		02437	446	2.7	4.5		X		X	
.03	VS-DCR	1/15/24	929	1648	-30.92	-6.68	59.6	70.0	-30.00		0162	2998	2.7	4.5		X		X	
.04	IA-DCR	1/15/24	931	1650	-28.72	-2.68	59.6	69.9	-29.20		0038	2768	2.7	4.5	L2401709-01	X		X	
.05	VS-DCF	1/15/24	958	1652	-28.64	-0.90	61.4	69.9	-29.50		01545	2242	2.7	4.5	L2402036-01	X		X	
.06	IA-DCF	1/15/24	1000	1654	-30.81	-6.28	61.5	69.9	-29.90		01776	2827	2.7	4.5		X		X	

Custody Seals:		Temperature (Fahrenheit)				Individual Preparing Canister/Containers and Laboratory Canister Certification	
Outgoing Seal No: 41608227	(refer to crate seal)	Ambient	Maximum	Minimum		Name: Kersey Granlund	
Incoming Seal No:	(if applicable)	Start	29.7	68.5	29.7	Signature: Melsy Granlund	
		Stop	37.2	75.3	37.2	Footnotes:	
		Pressure (Inches of Hg)				(1) Refer to equipment tags for these readings.	
		Ambient	Maximum	Minimum		(2) Readings provided in data deliverable package.	
		Start	30.15	30.17	30.12		
		Stop	30.01	30.03	30.00		

Special Instructions/QC Requirements & Comments:
Rel: [Signature] 1/20/24 0300

Canisters Shipped by:	Date/Time:	Canisters Received by:	Date/Time:	Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until all ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.
Samples Relinquished by: [Signature]	Date/Time: 1/19/24 1150	Received by: [Signature] PACE	Date/Time: 1/19/24 1150	
Relinquished by: [Signature] PACE	Date/Time: 1/19/24 1620	Received by: [Signature] [Signature]	Date/Time: 1/19/24 1620	
Form: 101-06 April 1, 2013 Page 17 of 988 Anthony Green 1/19/24 2300 [Signature] 1/19/24 2300 JAN 19 2024 Note: Combined External Chain of Custody and NJDEP Field Test Data Sheet [Signature] 1/20/24 03:00				



Alpha Analytical

320 Forbes Blvd
Mansfield, MA 02048-1806
Tel: 508-822-9300
Fax: 508-822-3288

AIR Chain-of-Custody - NJ

Date Rec'd in Lab

1/20/24

ALPHA Job#

L2403288

Client Contact Information		Project Information		NJ DEP Information										2 of 2 COCs					
Company: Reliance Env.		Project Name: OceanSide Plaza		Bureau:		Division:		Contract No:		Analysis		Matrix							
Address: 235 W. Duke St.		Project No: BK-001		Report Information - Data Deliverables:															
City/State/Zip: Lancaster, PA 17602		Site/Location:		☐ FAX:															
Phone: 717-735-9508		Project Manager: Mark Zwick		☐ ADEx ☐ Criteria Checker:															
FAX:		Analysis Turn-Around Time		☐ EMail (standard pdf report)															
Email: MEZ@RELIANCE.ENV		Standard (Specify)		Billing Information															
Site Contact:		Rush (Specify)		☐ Same as Client Info PO #:															
Site Contact Phone:																			
ALPHA LAB ID (Lab Use Only)	Sample Identification	Sample Date(s)	Time Start (24 hr clock)	Time Stop (24 hr clock)	Canister Pressure in Field (Hg) (Start)	Canister Pressure in Field (Hg) (Stop)	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Outgoing Canister Pressure (Hg) (Note 1)	Incoming Canister Pressure (Hg) (Note 2)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout (ml/min) (Note 1)	Batch Cert ID (Note 1)	TO-15	EPA 3C	Indoor/Ambient Air	Soil Gas
03288-07	VS-MRE	1/18/24	1012	1656	-30.39	-9.01	62.7	70.6	-29.90		02451	359	2.7	4.5	L2403288-01	X			X
08	VS-VAC	1/18/24	1041	1838	-30.75	-4.99	68.5	75.2	-30.00		01249	379	2.7	4.5		X			X
09	IA-WINE	1/18/24	1042	1836	-30.76	-5.42	68.5	75.3	-30.00		01891	507	2.7	4.5		X		X	
10	VS-BOOK	1/18/24	1216	1856	-30.86	-9.98	54.2	71.2	-30.00		01185	3109	2.7	4.5		X			X
11	IA-YOGURT	1/18/24	1217	1858	-30.84	-9.03	54.1	71.2	-30.00		01383	490	2.7	4.5		X		X	
Custody Seals: 41608208		Temperature (Fahrenheit)				Individual Preparing Canister/Containers and Laboratory Canister Certification													
Outgoing Seal No: (refer to crate seal)		Ambient		Maximum		Minimum		Name: Kelsey Granlund											
Incoming Seal No: (if applicable)		Start	29.7	68.5	29.7	Signature: Kelsey Granlund													
		Stop	37.2	75.3	37.2														
		Pressure (inches of Hg)				Footnotes:													
		Ambient		Maximum		Minimum		(1) Refer to equipment tags for these readings.											
		Start	30.15	30.17	30.12	(2) Readings provided in data deliverable package.													
		Stop	30.01	30.03	30.00														
Special Instructions/QC Requirements & Comments:																			
Rel: 11/20/24 0300																			
Canisters Shipped by:		Date/Time:		Canisters Received by:		Date/Time:		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until all ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.											
Samples Relinquished by:		Date/Time: 1-19-24 1150		Received by: D. Robinson PACE		Date/Time: 1/19/24 1150													
Relinquished by: D. Robinson PACE		Date/Time: 1/19/24 1620		Received by: Anthony Green		Date/Time: 1/19/24 1620													

Supporting Documentation

Project Name: OCEANSIDE PLAZA

Lab Number: L2403288

Project Number: BK-001

Report Date: 02/14/24

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2403288-01	VS-FENCE	01550	Flow 4	01/15/24	451443		-	-	-	Pass	4.5	5.1	13
L2403288-01	VS-FENCE	3876	2.7L Can	01/15/24	451443	L2402036-01	Pass	-30.0	0.0	-	-	-	-
L2403288-02	AMBIENT	02437	Flow 5	01/15/24	451443		-	-	-	Pass	4.5	5.2	14
L2403288-02	AMBIENT	446	2.7L Can	01/15/24	451443	L2402036-01	Pass	-30.0	-2.3	-	-	-	-
L2403288-03	VS-DCR	0162	Flow 4	01/15/24	451443		-	-	-	Pass	4.5	4.8	6
L2403288-03	VS-DCR	2998	2.7L Can	01/15/24	451443	L2402036-01	Pass	-30.0	-5.9	-	-	-	-
L2403288-04	IA-DCR	0038	Flow 5	01/15/24	451443		-	-	-	Pass	4.5	4.7	4
L2403288-04	IA-DCR	2768	2.7L Can	01/15/24	451443	L2401709-01	Pass	-29.2	-2.1	-	-	-	-
L2403288-05	VS-DCF	01545	Flow 3	01/15/24	451443		-	-	-	Pass	4.5	5.4	18
L2403288-05	VS-DCF	2242	2.7L Can	01/15/24	451443	L2402036-01	Pass	-29.5	-2.3	-	-	-	-
L2403288-06	IA-DCF	01776	Flow 5	01/15/24	451443		-	-	-	Pass	4.5	5.2	14
L2403288-06	IA-DCF	2827	2.7L Can	01/15/24	451443	L2402036-01	Pass	-29.9	-6.3	-	-	-	-
L2403288-07	VS-MRE	02451	Flow 5	01/15/24	451443		-	-	-	Pass	4.5	6.0	29
L2403288-07	VS-MRE	359	2.7L Can	01/15/24	451443	L2402036-01	Pass	-29.9	-9.2	-	-	-	-
L2403288-08	VS-VAC	01249	Flow 4	01/15/24	451443		-	-	-	Pass	4.5	4.9	9

Project Name: OCEANSIDE PLAZA

Lab Number: L2403288

Project Number: BK-001

Report Date: 02/14/24

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2403288-08	VS-VAC	379	2.7L Can	01/15/24	451443	L2402036-01	Pass	-30.0	-4.6	-	-	-	-
L2403288-09	IA-WINE	01891	Flow 4	01/15/24	451443		-	-	-	Pass	4.5	4.8	6
L2403288-09	IA-WINE	507	2.7L Can	01/15/24	451443	L2402036-01	Pass	-30.0	-5.2	-	-	-	-
L2403288-10	VS-BOOK	01185	Flow 5	01/15/24	451443		-	-	-	Pass	4.5	4.8	6
L2403288-10	VS-BOOK	3109	2.7L Can	01/15/24	451443	L2402036-01	Pass	-30.0	-9.1	-	-	-	-
L2403288-11	IA-YOGURT	01388	Flow 3	01/15/24	451443		-	-	-	Pass	4.5	5.1	13
L2403288-11	IA-YOGURT	490	2.7L Can	01/15/24	451443	L2402036-01	Pass	-30.0	-8.7	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2401709
Report Date: 02/14/24

Air Canister Certification Results

Lab ID: L2401709-01
Client ID: CAN 2693 SHELF 4
Sample Location:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 01/11/24 19:38
Analyst: JMB

Date Collected: 01/10/24 18:00
Date Received: 01/11/24
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Chlorodifluoromethane	ND	0.200	0.046	ND	0.707	0.164		1
Propylene	ND	0.500	0.135	ND	0.861	0.232		1
Propane	ND	0.500	0.152	ND	0.902	0.274		1
Dichlorodifluoromethane	ND	0.200	0.076	ND	0.989	0.374		1
Chloromethane	ND	0.200	0.058	ND	0.413	0.119		1
Freon-114	ND	0.200	0.050	ND	1.40	0.352		1
Methanol	ND	5.00	3.03	ND	6.55	3.97		1
Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Butane	ND	0.200	0.080	ND	0.475	0.190		1
Bromomethane	ND	0.200	0.055	ND	0.777	0.212		1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Ethanol	ND	5.00	1.74	ND	9.42	3.28		1
Dichlorofluoromethane	ND	0.200	0.112	ND	0.842	0.471		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acrolein	ND	0.500	0.149	ND	1.15	0.342		1
Acetone	ND	1.00	0.515	ND	2.38	1.22		1
Acetonitrile	ND	0.200	0.101	ND	0.336	0.170		1
Trichlorofluoromethane	ND	0.200	0.079	ND	1.12	0.442		1
Isopropanol	ND	0.500	0.272	ND	1.23	0.669		1
Acrylonitrile	ND	0.500	0.089	ND	1.09	0.194		1
Pentane	ND	0.200	0.113	ND	0.590	0.333		1
Ethyl ether	ND	0.200	0.085	ND	0.606	0.259		1
1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225		1
Tertiary butyl Alcohol	ND	0.500	0.132	ND	1.52	0.400		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2401709
Report Date: 02/14/24

Air Canister Certification Results

Lab ID: L2401709-01
Client ID: CAN 2693 SHELF 4
Sample Location:

Date Collected: 01/10/24 18:00
Date Received: 01/11/24
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Methylene chloride	ND	0.500	0.125	ND	1.74	0.434		1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	ND	0.200	0.047	ND	0.623	0.145		1
Freon-113	ND	0.200	0.051	ND	1.53	0.388		1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230		1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
Vinyl acetate	ND	1.00	0.323	ND	3.52	1.14		1
Xylenes, total	ND	0.600	0.062	ND	0.869	0.270		1
2-Butanone	ND	0.500	0.099	ND	1.47	0.292		1
cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236		1
Ethyl Acetate	ND	0.500	0.297	ND	1.80	1.07		1
Chloroform	ND	0.200	0.055	ND	0.977	0.270		1
Tetrahydrofuran	ND	0.500	0.117	ND	1.47	0.345		1
2,2-Dichloropropane	ND	0.200	0.043	ND	0.924	0.198		1
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	ND	0.200	0.074	ND	0.705	0.262		1
Diisopropyl ether	ND	0.200	0.063	ND	0.836	0.264		1
tert-Butyl Ethyl Ether	ND	0.200	0.073	ND	0.836	0.306		1
1,2-Dichloroethene (total)	ND	1.00	0.060	ND	1.00	0.236		1
1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335		1
1,1-Dichloropropene	ND	0.200	0.059	ND	0.908	0.269		1
Benzene	ND	0.200	0.064	ND	0.639	0.205		1
Carbon tetrachloride	ND	0.200	0.069	ND	1.26	0.432		1
Cyclohexane	ND	0.200	0.073	ND	0.688	0.251		1
tert-Amyl Methyl Ether	ND	0.200	0.067	ND	0.836	0.281		1
Dibromomethane	ND	0.200	0.060	ND	1.42	0.425		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2401709
Report Date: 02/14/24

Air Canister Certification Results

Lab ID: L2401709-01
Client ID: CAN 2693 SHELF 4
Sample Location:

Date Collected: 01/10/24 18:00
Date Received: 01/11/24
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
Trichloroethene	ND	0.200	0.055	ND	1.07	0.295		1
2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323		1
Methyl Methacrylate	ND	0.500	0.226	ND	2.05	0.925		1
Heptane	ND	0.200	0.083	ND	0.820	0.339		1
cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355		1
1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318		1
Toluene	ND	0.200	0.087	ND	0.754	0.327		1
1,3-Dichloropropane	ND	0.200	0.054	ND	0.924	0.248		1
2-Hexanone	ND	0.200	0.091	ND	0.820	0.374		1
Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482		1
1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418		1
Butyl acetate	ND	0.500	0.208	ND	2.38	0.989		1
Octane	ND	0.200	0.068	ND	0.934	0.316		1
Tetrachloroethene	ND	0.200	0.063	ND	1.36	0.425		1
1,1,1,2-Tetrachloroethane	ND	0.200	0.051	ND	1.37	0.349		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250		1
p/m-Xylene	ND	0.400	0.125	ND	1.74	0.543		1
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	ND	0.200	0.060	ND	0.852	0.254		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357		1
o-Xylene	ND	0.200	0.062	ND	0.869	0.270		1
1,2,3-Trichloropropane	ND	0.200	0.058	ND	1.21	0.347		1
Nonane	ND	0.200	0.074	ND	1.05	0.387		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2401709
Report Date: 02/14/24

Air Canister Certification Results

Lab ID: L2401709-01
Client ID: CAN 2693 SHELF 4
Sample Location:

Date Collected: 01/10/24 18:00
Date Received: 01/11/24
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Isopropylbenzene	ND	0.200	0.062	ND	0.983	0.305		1
Bromobenzene	ND	0.200	0.058	ND	0.793	0.230		1
2-Chlorotoluene	ND	0.200	0.076	ND	1.04	0.394		1
n-Propylbenzene	ND	0.200	0.063	ND	0.983	0.311		1
4-Chlorotoluene	ND	0.200	0.077	ND	1.04	0.396		1
4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272		1
1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295		1
tert-Butylbenzene	ND	0.200	0.055	ND	1.10	0.302		1
1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284		1
Decane	ND	0.200	0.070	ND	1.16	0.406		1
Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486		1
1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
sec-Butylbenzene	ND	0.200	0.055	ND	1.10	0.300		1
p-Isopropyltoluene	ND	0.200	0.057	ND	1.10	0.311		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
n-Butylbenzene	ND	0.200	0.054	ND	1.10	0.294		1
1,2-Dibromo-3-chloropropane	ND	0.200	0.062	ND	1.93	0.603		1
Undecane	ND	0.200	0.071	ND	1.28	0.453		1
Dodecane	ND	0.200	0.089	ND	1.39	0.621		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1
Naphthalene	ND	0.200	0.078	ND	1.05	0.409		1
1,2,3-Trichlorobenzene	ND	0.200	0.074	ND	1.48	0.548		1
Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2401709
Report Date: 02/14/24

Air Canister Certification Results

Lab ID: L2401709-01 Date Collected: 01/10/24 18:00
 Client ID: CAN 2693 SHELF 4 Date Received: 01/11/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	97		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2401709
Report Date: 02/14/24

Air Canister Certification Results

Lab ID: L2401709-01
 Client ID: CAN 2693 SHELF 4
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/11/24 19:38
 Analyst: JMB

Date Collected: 01/10/24 18:00
 Date Received: 01/11/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
Dichlorodifluoromethane	ND	0.200	0.050	ND	0.989	0.247		1
Chloromethane	ND	0.200	0.076	ND	0.413	0.156		1
Freon-114	ND	0.050	0.006	ND	0.349	0.045		1
Vinyl chloride	ND	0.020	0.009	ND	0.051	0.023		1
1,3-Butadiene	ND	0.020	0.011	ND	0.044	0.024		1
Bromomethane	ND	0.020	0.009	ND	0.078	0.037		1
Chloroethane	ND	0.100	0.040	ND	0.264	0.104		1
Acrolein	ND	0.050	0.039	ND	0.115	0.089		1
Acetone	ND	1.00	0.539	ND	2.38	1.28		1
Trichlorofluoromethane	ND	0.050	0.009	ND	0.281	0.052		1
Acrylonitrile	ND	0.500	0.162	ND	1.09	0.352		1
1,1-Dichloroethene	ND	0.020	0.008	ND	0.079	0.031		1
Methylene chloride	ND	0.500	0.110	ND	1.74	0.382		1
Freon-113	ND	0.050	0.008	ND	0.383	0.064		1
trans-1,2-Dichloroethene	ND	0.020	0.009	ND	0.079	0.036		1
1,1-Dichloroethane	ND	0.020	0.009	ND	0.081	0.035		1
Methyl tert butyl ether	ND	0.200	0.026	ND	0.721	0.094		1
2-Butanone	ND	0.500	0.132	ND	1.47	0.389		1
cis-1,2-Dichloroethene	ND	0.020	0.010	ND	0.079	0.040		1
Chloroform	ND	0.020	0.007	ND	0.098	0.035		1
1,2-Dichloroethane	ND	0.020	0.008	ND	0.081	0.034		1
1,1,1-Trichloroethane	ND	0.020	0.006	ND	0.109	0.032		1
Benzene	ND	0.100	0.030	ND	0.319	0.095		1
Carbon tetrachloride	ND	0.020	0.011	ND	0.126	0.069		1
1,2-Dichloropropane	ND	0.020	0.008	ND	0.092	0.038		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2401709
Report Date: 02/14/24

Air Canister Certification Results

Lab ID: L2401709-01
Client ID: CAN 2693 SHELF 4
Sample Location:

Date Collected: 01/10/24 18:00
Date Received: 01/11/24
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.050		1
1,4-Dioxane	ND	0.100	0.034	ND	0.360	0.124		1
Trichloroethene	ND	0.020	0.006	ND	0.107	0.032		1
cis-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.054		1
4-Methyl-2-pentanone	ND	0.500	0.191	ND	2.05	0.783		1
trans-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.052		1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.053		1
Toluene	ND	0.100	0.017	ND	0.377	0.063		1
Dibromochloromethane	ND	0.020	0.008	ND	0.170	0.068		1
1,2-Dibromoethane	ND	0.020	0.009	ND	0.154	0.070		1
Tetrachloroethene	ND	0.020	0.007	ND	0.136	0.050		1
1,1,1,2-Tetrachloroethane	ND	0.020	0.010	ND	0.137	0.069		1
Chlorobenzene	ND	0.100	0.026	ND	0.461	0.119		1
Ethylbenzene	ND	0.020	0.009	ND	0.087	0.037		1
p/m-Xylene	ND	0.040	0.018	ND	0.174	0.078		1
Bromoform	ND	0.020	0.011	ND	0.207	0.115		1
Styrene	ND	0.020	0.008	ND	0.085	0.034		1
1,1,2,2-Tetrachloroethane	ND	0.020	0.007	ND	0.137	0.046		1
o-Xylene	ND	0.020	0.009	ND	0.087	0.038		1
Isopropylbenzene	ND	0.200	0.030	ND	0.983	0.147		1
4-Ethyltoluene	ND	0.020	0.010	ND	0.098	0.049		1
1,3,5-Trimethybenzene	ND	0.020	0.010	ND	0.098	0.047		1
1,2,4-Trimethylbenzene	ND	0.020	0.008	ND	0.098	0.037		1
Benzyl chloride	ND	0.100	0.033	ND	0.518	0.172		1
1,3-Dichlorobenzene	ND	0.020	0.008	ND	0.120	0.046		1
1,4-Dichlorobenzene	ND	0.020	0.008	ND	0.120	0.045		1
sec-Butylbenzene	ND	0.200	0.027	ND	1.10	0.146		1
p-Isopropyltoluene	ND	0.200	0.037	ND	1.10	0.201		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2401709
Report Date: 02/14/24

Air Canister Certification Results

Lab ID: L2401709-01
Client ID: CAN 2693 SHELF 4
Sample Location:

Date Collected: 01/10/24 18:00
Date Received: 01/11/24
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
1,2-Dichlorobenzene	ND	0.020	0.006	ND	0.120	0.037		1
n-Butylbenzene	ND	0.200	0.032	ND	1.10	0.175		1
1,2,4-Trichlorobenzene	ND	0.050	0.015	ND	0.371	0.108		1
Naphthalene	ND	0.050	0.021	ND	0.262	0.110		1
1,2,3-Trichlorobenzene	ND	0.050	0.022	ND	0.371	0.166		1
Hexachlorobutadiene	ND	0.050	0.011	ND	0.533	0.117		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	99		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	98		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2402036
Report Date: 02/14/24

Air Canister Certification Results

Lab ID: L2402036-01
Client ID: CAN 260 SHELF 2
Sample Location:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 01/12/24 02:03
Analyst: JMB

Date Collected: 01/11/24 15:00
Date Received: 01/11/24
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Chlorodifluoromethane	ND	0.200	0.046	ND	0.707	0.164		1
Propylene	ND	0.500	0.135	ND	0.861	0.232		1
Propane	ND	0.500	0.152	ND	0.902	0.274		1
Dichlorodifluoromethane	ND	0.200	0.076	ND	0.989	0.374		1
Chloromethane	ND	0.200	0.058	ND	0.413	0.119		1
Freon-114	ND	0.200	0.050	ND	1.40	0.352		1
Methanol	ND	5.00	3.03	ND	6.55	3.97		1
Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Butane	ND	0.200	0.080	ND	0.475	0.190		1
Bromomethane	ND	0.200	0.055	ND	0.777	0.212		1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Ethanol	ND	5.00	1.74	ND	9.42	3.28		1
Dichlorofluoromethane	ND	0.200	0.112	ND	0.842	0.471		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acrolein	ND	0.500	0.149	ND	1.15	0.342		1
Acetone	ND	1.00	0.515	ND	2.38	1.22		1
Acetonitrile	ND	0.200	0.101	ND	0.336	0.170		1
Trichlorofluoromethane	ND	0.200	0.079	ND	1.12	0.442		1
Isopropanol	ND	0.500	0.272	ND	1.23	0.669		1
Acrylonitrile	ND	0.500	0.089	ND	1.09	0.194		1
Pentane	ND	0.200	0.113	ND	0.590	0.333		1
Ethyl ether	ND	0.200	0.085	ND	0.606	0.259		1
1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225		1
Tertiary butyl Alcohol	ND	0.500	0.132	ND	1.52	0.400		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2402036
Report Date: 02/14/24

Air Canister Certification Results

Lab ID: L2402036-01
 Client ID: CAN 260 SHELF 2
 Sample Location:

Date Collected: 01/11/24 15:00
 Date Received: 01/11/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Methylene chloride	ND	0.500	0.125	ND	1.74	0.434		1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	ND	0.200	0.047	ND	0.623	0.145		1
Freon-113	ND	0.200	0.051	ND	1.53	0.388		1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230		1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
Vinyl acetate	ND	1.00	0.323	ND	3.52	1.14		1
Xylenes, total	ND	0.600	0.062	ND	0.869	0.270		1
2-Butanone	ND	0.500	0.099	ND	1.47	0.292		1
cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236		1
Ethyl Acetate	ND	0.500	0.297	ND	1.80	1.07		1
Chloroform	ND	0.200	0.055	ND	0.977	0.270		1
Tetrahydrofuran	ND	0.500	0.117	ND	1.47	0.345		1
2,2-Dichloropropane	ND	0.200	0.043	ND	0.924	0.198		1
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	ND	0.200	0.074	ND	0.705	0.262		1
Diisopropyl ether	ND	0.200	0.063	ND	0.836	0.264		1
tert-Butyl Ethyl Ether	ND	0.200	0.073	ND	0.836	0.306		1
1,2-Dichloroethene (total)	ND	1.00	0.060	ND	1.00	0.236		1
1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335		1
1,1-Dichloropropene	ND	0.200	0.059	ND	0.908	0.269		1
Benzene	ND	0.200	0.064	ND	0.639	0.205		1
Carbon tetrachloride	ND	0.200	0.069	ND	1.26	0.432		1
Cyclohexane	ND	0.200	0.073	ND	0.688	0.251		1
tert-Amyl Methyl Ether	ND	0.200	0.067	ND	0.836	0.281		1
Dibromomethane	ND	0.200	0.060	ND	1.42	0.425		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2402036
Report Date: 02/14/24

Air Canister Certification Results

Lab ID: L2402036-01
 Client ID: CAN 260 SHELF 2
 Sample Location:

Date Collected: 01/11/24 15:00
 Date Received: 01/11/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
Trichloroethene	ND	0.200	0.055	ND	1.07	0.295		1
2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323		1
Methyl Methacrylate	ND	0.500	0.226	ND	2.05	0.925		1
Heptane	ND	0.200	0.083	ND	0.820	0.339		1
cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355		1
1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318		1
Toluene	ND	0.200	0.087	ND	0.754	0.327		1
1,3-Dichloropropane	ND	0.200	0.054	ND	0.924	0.248		1
2-Hexanone	ND	0.200	0.091	ND	0.820	0.374		1
Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482		1
1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418		1
Butyl acetate	ND	0.500	0.208	ND	2.38	0.989		1
Octane	ND	0.200	0.068	ND	0.934	0.316		1
Tetrachloroethene	ND	0.200	0.063	ND	1.36	0.425		1
1,1,1,2-Tetrachloroethane	ND	0.200	0.051	ND	1.37	0.349		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250		1
p/m-Xylene	ND	0.400	0.125	ND	1.74	0.543		1
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	ND	0.200	0.060	ND	0.852	0.254		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357		1
o-Xylene	ND	0.200	0.062	ND	0.869	0.270		1
1,2,3-Trichloropropane	ND	0.200	0.058	ND	1.21	0.347		1
Nonane	ND	0.200	0.074	ND	1.05	0.387		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2402036
Report Date: 02/14/24

Air Canister Certification Results

Lab ID: L2402036-01
Client ID: CAN 260 SHELF 2
Sample Location:

Date Collected: 01/11/24 15:00
Date Received: 01/11/24
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Isopropylbenzene	ND	0.200	0.062	ND	0.983	0.305		1
Bromobenzene	ND	0.200	0.058	ND	0.793	0.230		1
2-Chlorotoluene	ND	0.200	0.076	ND	1.04	0.394		1
n-Propylbenzene	ND	0.200	0.063	ND	0.983	0.311		1
4-Chlorotoluene	ND	0.200	0.077	ND	1.04	0.396		1
4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272		1
1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295		1
tert-Butylbenzene	ND	0.200	0.055	ND	1.10	0.302		1
1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284		1
Decane	ND	0.200	0.070	ND	1.16	0.406		1
Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486		1
1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
sec-Butylbenzene	ND	0.200	0.055	ND	1.10	0.300		1
p-Isopropyltoluene	ND	0.200	0.057	ND	1.10	0.311		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
n-Butylbenzene	ND	0.200	0.054	ND	1.10	0.294		1
1,2-Dibromo-3-chloropropane	ND	0.200	0.062	ND	1.93	0.603		1
Undecane	ND	0.200	0.071	ND	1.28	0.453		1
Dodecane	ND	0.200	0.089	ND	1.39	0.621		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1
Naphthalene	ND	0.200	0.078	ND	1.05	0.409		1
1,2,3-Trichlorobenzene	ND	0.200	0.074	ND	1.48	0.548		1
Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2402036
Report Date: 02/14/24

Air Canister Certification Results

Lab ID: L2402036-01
Client ID: CAN 260 SHELF 2
Sample Location:

Date Collected: 01/11/24 15:00
Date Received: 01/11/24
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	100		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	104		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2402036
Report Date: 02/14/24

Air Canister Certification Results

Lab ID: L2402036-01
Client ID: CAN 260 SHELF 2
Sample Location:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 01/12/24 02:03
Analyst: JMB

Date Collected: 01/11/24 15:00
Date Received: 01/11/24
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
Dichlorodifluoromethane	ND	0.200	0.050	ND	0.989	0.247		1
Chloromethane	ND	0.200	0.076	ND	0.413	0.156		1
Freon-114	ND	0.050	0.006	ND	0.349	0.045		1
Vinyl chloride	ND	0.020	0.009	ND	0.051	0.023		1
1,3-Butadiene	ND	0.020	0.011	ND	0.044	0.024		1
Bromomethane	ND	0.020	0.009	ND	0.078	0.037		1
Chloroethane	ND	0.100	0.040	ND	0.264	0.104		1
Acrolein	ND	0.050	0.039	ND	0.115	0.089		1
Acetone	ND	1.00	0.539	ND	2.38	1.28		1
Trichlorofluoromethane	ND	0.050	0.009	ND	0.281	0.052		1
Acrylonitrile	ND	0.500	0.162	ND	1.09	0.352		1
1,1-Dichloroethene	ND	0.020	0.008	ND	0.079	0.031		1
Methylene chloride	ND	0.500	0.110	ND	1.74	0.382		1
Freon-113	ND	0.050	0.008	ND	0.383	0.064		1
trans-1,2-Dichloroethene	ND	0.020	0.009	ND	0.079	0.036		1
1,1-Dichloroethane	ND	0.020	0.009	ND	0.081	0.035		1
Methyl tert butyl ether	ND	0.200	0.026	ND	0.721	0.094		1
2-Butanone	ND	0.500	0.132	ND	1.47	0.389		1
cis-1,2-Dichloroethene	ND	0.020	0.010	ND	0.079	0.040		1
Chloroform	ND	0.020	0.007	ND	0.098	0.035		1
1,2-Dichloroethane	ND	0.020	0.008	ND	0.081	0.034		1
1,1,1-Trichloroethane	ND	0.020	0.006	ND	0.109	0.032		1
Benzene	ND	0.100	0.030	ND	0.319	0.095		1
Carbon tetrachloride	ND	0.020	0.011	ND	0.126	0.069		1
1,2-Dichloropropane	ND	0.020	0.008	ND	0.092	0.038		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2402036
Report Date: 02/14/24

Air Canister Certification Results

Lab ID: L2402036-01
 Client ID: CAN 260 SHELF 2
 Sample Location:

Date Collected: 01/11/24 15:00
 Date Received: 01/11/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.050		1
1,4-Dioxane	ND	0.100	0.034	ND	0.360	0.124		1
Trichloroethene	ND	0.020	0.006	ND	0.107	0.032		1
cis-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.054		1
4-Methyl-2-pentanone	ND	0.500	0.191	ND	2.05	0.783		1
trans-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.052		1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.053		1
Toluene	ND	0.100	0.017	ND	0.377	0.063		1
Dibromochloromethane	ND	0.020	0.008	ND	0.170	0.068		1
1,2-Dibromoethane	ND	0.020	0.009	ND	0.154	0.070		1
Tetrachloroethene	ND	0.020	0.007	ND	0.136	0.050		1
1,1,1,2-Tetrachloroethane	ND	0.020	0.010	ND	0.137	0.069		1
Chlorobenzene	ND	0.100	0.026	ND	0.461	0.119		1
Ethylbenzene	ND	0.020	0.009	ND	0.087	0.037		1
p/m-Xylene	ND	0.040	0.018	ND	0.174	0.078		1
Bromoform	ND	0.020	0.011	ND	0.207	0.115		1
Styrene	ND	0.020	0.008	ND	0.085	0.034		1
1,1,2,2-Tetrachloroethane	ND	0.020	0.007	ND	0.137	0.046		1
o-Xylene	ND	0.020	0.009	ND	0.087	0.038		1
Isopropylbenzene	ND	0.200	0.030	ND	0.983	0.147		1
4-Ethyltoluene	ND	0.020	0.010	ND	0.098	0.049		1
1,3,5-Trimethybenzene	ND	0.020	0.010	ND	0.098	0.047		1
1,2,4-Trimethylbenzene	ND	0.020	0.008	ND	0.098	0.037		1
Benzyl chloride	ND	0.100	0.033	ND	0.518	0.172		1
1,3-Dichlorobenzene	ND	0.020	0.008	ND	0.120	0.046		1
1,4-Dichlorobenzene	ND	0.020	0.008	ND	0.120	0.045		1
sec-Butylbenzene	ND	0.200	0.027	ND	1.10	0.146		1
p-Isopropyltoluene	ND	0.200	0.037	ND	1.10	0.201		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2402036
Report Date: 02/14/24

Air Canister Certification Results

Lab ID: L2402036-01
Client ID: CAN 260 SHELF 2
Sample Location:

Date Collected: 01/11/24 15:00
Date Received: 01/11/24
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
1,2-Dichlorobenzene	ND	0.020	0.006	ND	0.120	0.037		1
n-Butylbenzene	ND	0.200	0.032	ND	1.10	0.175		1
1,2,4-Trichlorobenzene	ND	0.050	0.015	ND	0.371	0.108		1
Naphthalene	ND	0.050	0.021	ND	0.262	0.110		1
1,2,3-Trichlorobenzene	ND	0.050	0.022	ND	0.371	0.166		1
Hexachlorobutadiene	ND	0.050	0.011	ND	0.533	0.117		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	101		60-140
bromochloromethane	101		60-140
chlorobenzene-d5	105		60-140



Organics

Volatile Organics in Air

TO-15 Low Level

Volatiles QC Summary

Lab Duplicate Sample Summary

Form 3

Air Volatiles

Client : Reliance Environmental, Inc.
Project Name : OCEANSIDE PLAZA
Client Sample ID : VS-DCF
Lab Sample ID : L2403288-05
Lab File ID : R1542425
Dup Sample ID : WG1880230-5

Lab Number : L2403288
Project Number : BK-001
Matrix (Level) : AIR (LOW)
Analysis Date : 01/31/24 22:15
DUP File ID : r1542426
DUP Analysis Date : 01/31/24 22:53

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
Dichlorodifluoromethane	0.552	0.539	2	25
Chloromethane	0.258	0.265	3	25
Vinyl chloride	ND	ND	NC	25
1,3-Butadiene	ND	ND	NC	25
Bromomethane	ND	ND	NC	25
Chloroethane	ND	ND	NC	25
Vinyl bromide	ND	ND	NC	25
Acrolein	0.162J	ND	NC	25
Acetone	29.1	29.1	0	25
Trichlorofluoromethane	0.541	0.527	3	25
Isopropanol	32.3	32.6	1	25
Acrylonitrile	0.441J	0.373J	NC	25
1,1-Dichloroethene	ND	ND	NC	25
Methylene chloride	1.75	1.65	6	25
3-Chloropropene	ND	ND	NC	25
Carbon disulfide	0.330	0.326	1	25
Freon-113	0.062J	0.059J	NC	25
trans-1,2-Dichloroethene	ND	ND	NC	25
1,1-Dichloroethane	ND	ND	NC	25
Methyl tert butyl ether	ND	ND	NC	25
cis-1,2-Dichloroethene	ND	ND	NC	25
Chloroform	ND	ND	NC	25
Tetrahydrofuran	0.713	0.672	6	25
1,2-Dichloroethane	ND	ND	NC	25
n-Hexane	0.608	0.601	1	25



Lab Duplicate Sample Summary

Form 3

Air Volatiles

Client : Reliance Environmental, Inc.
Project Name : OCEANSIDE PLAZA
Client Sample ID : VS-DCF
Lab Sample ID : L2403288-05
Lab File ID : R1542425
Dup Sample ID : WG1880230-5

Lab Number : L2403288
Project Number : BK-001
Matrix (Level) : AIR (LOW)
Analysis Date : 01/31/24 22:15
DUP File ID : r1542426
DUP Analysis Date : 01/31/24 22:53

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
1,1,1-Trichloroethane	ND	ND	NC	25
Benzene	0.286	0.281	2	25
Carbon tetrachloride	ND	ND	NC	25
Cyclohexane	0.114J	0.118J	NC	25
1,2-Dichloropropane	ND	ND	NC	25
Bromodichloromethane	ND	ND	NC	25
1,4-Dioxane	ND	ND	NC	25
Trichloroethene	0.178J	0.180J	NC	25
Methyl Methacrylate	ND	ND	NC	25
Xylenes, Total	0.968	0.973	1	25
4-Methyl-2-pentanone	ND	ND	NC	25
1,1,2-Trichloroethane	ND	ND	NC	25
Toluene	1.22	1.19	2	25
1,3-Dichloropropane	ND	ND	NC	25
Dibromochloromethane	ND	ND	NC	25
1,2-Dibromoethane	ND	ND	NC	25
Tetrachloroethene	0.488	0.488	0	25
Chlorobenzene	ND	ND	NC	25
Ethylbenzene	0.270	0.269	0	25
1,2-Dichloroethene, Total	ND	ND	NC	25
p/m-Xylene	0.715	0.723	1	25
Bromoform	ND	ND	NC	25
Styrene	0.501	0.494	1	25
1,1,2,2-Tetrachloroethane	ND	ND	NC	25
o-Xylene	0.253	0.250	1	25



Lab Duplicate Sample Summary

Form 3

Air Volatiles

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Client Sample ID : VS-DCF
 Lab Sample ID : L2403288-05
 Lab File ID : R1542425
 Dup Sample ID : WG1880230-5

Lab Number : L2403288
 Project Number : BK-001
 Matrix (Level) : AIR (LOW)
 Analysis Date : 01/31/24 22:15
 DUP File ID : r1542426
 DUP Analysis Date : 01/31/24 22:53

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
Isopropylbenzene	ND	ND	NC	25
1,3,5-Trimethylbenzene	ND	ND	NC	25
1,2,4-Trimethylbenzene	0.194J	0.193J	NC	25
Benzyl chloride	ND	ND	NC	25
1,4-Dichlorobenzene	ND	ND	NC	25
1,2-Dichlorobenzene	ND	ND	NC	25
1,2,4-Trichlorobenzene	ND	ND	NC	25
Naphthalene	ND	ND	NC	25

Laboratory Control Sample Summary

Form 3

Air Volatiles

Client : Reliance Environmental, Inc. Lab Number : L2403288
 Project Name : OCEANSIDE PLAZA Project Number : BK-001
 Matrix (Level) : AIR (LOW)
 LCS Sample ID : WG1880230-3 Analysis Date : 01/31/24 12:18 File ID : r1542414
 LCSD Sample ID : Analysis Date : File ID :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
Dichlorodifluoromethane	10	9.00	90				-	70-130	-
Chloromethane	10	10.2	102				-	70-130	-
Vinyl chloride	10	10.1	101				-	70-130	-
1,3-Butadiene	10	10.7	107				-	70-130	-
Bromomethane	10	9.96	100				-	70-130	-
Chloroethane	10	10.9	109				-	70-130	-
Vinyl bromide	10	10.8	108				-	70-130	-
Acrolein	10	10.1	101				-	60-113	-
Acetone	50	64.9	130				-	40-160	-
Trichlorofluoromethane	10	11.3	113				-	70-130	-
Isopropanol	25	26.2	105				-	40-160	-
Acrylonitrile	10	8.06	81				-	70-130	-
1,1-Dichloroethene	10	10.4	104				-	70-130	-
Methylene chloride	10	9.41	94				-	70-130	-
3-Chloropropene	10	11.2	112				-	70-130	-
Carbon disulfide	10	9.03	90				-	70-130	-
Freon-113	10	9.72	97				-	70-130	-
trans-1,2-Dichloroethene	10	10.1	101				-	70-130	-
1,1-Dichloroethane	10	9.95	100				-	70-130	-
Methyl tert butyl ether	10	9.27	93				-	70-130	-
cis-1,2-Dichloroethene	10	10.0	100				-	70-130	-
Chloroform	10	8.90	89				-	70-130	-
Tetrahydrofuran	10	10.1	101				-	70-130	-
1,2-Dichloroethane	10	10.8	108				-	70-130	-
n-Hexane	10	11.8	118				-	70-130	-
1,2-Dichloroethene, Total	20	20.1	100				-	-	-



Laboratory Control Sample Summary

Form 3

Air Volatiles

Client : Reliance Environmental, Inc. Lab Number : L2403288
 Project Name : OCEANSIDE PLAZA Project Number : BK-001
 Matrix (Level) : AIR (LOW)
 LCS Sample ID : WG1880230-3 Analysis Date : 01/31/24 12:18 File ID : r1542414
 LCSD Sample ID : Analysis Date : File ID :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
1,2-Dichloroethene, Total	20	20.1	100				-	-	-
1,1,1-Trichloroethane	10	11.2	112				-	70-130	-
Benzene	10	9.39	94				-	70-130	-
Carbon tetrachloride	10	10.4	104				-	70-130	-
Cyclohexane	10	11.2	112				-	70-130	-
1,2-Dichloropropane	10	10.4	104				-	70-130	-
Bromodichloromethane	10	11.1	111				-	70-130	-
1,4-Dioxane	10	10.4	104				-	70-130	-
Trichloroethene	10	9.59	96				-	70-130	-
Methyl Methacrylate	10	13.0	130				-	40-160	-
4-Methyl-2-pentanone	10	11.8	118				-	70-130	-
1,1,2-Trichloroethane	10	10.0	100				-	70-130	-
Toluene	10	8.97	90				-	70-130	-
1,3-Dichloropropane	10	8.94	89				-	70-130	-
Dibromochloromethane	10	10.6	106				-	70-130	-
1,2-Dibromoethane	10	8.57	86				-	70-130	-
Tetrachloroethene	10	7.85	78				-	70-130	-
Chlorobenzene	10	8.32	83				-	70-130	-
Ethylbenzene	10	8.85	88				-	70-130	-
p/m-Xylene	20	18.6	93				-	70-130	-
Bromoform	10	9.72	97				-	70-130	-
Styrene	10	8.28	83				-	70-130	-
1,1,1,2-Tetrachloroethane	10	8.94	89				-	70-130	-
o-Xylene	10	9.58	96				-	70-130	-
Isopropylbenzene	10	9.16	92				-	70-130	-
1,3,5-Trimethylbenzene	10	9.45	94				-	70-130	-



Laboratory Control Sample Summary

Form 3

Air Volatiles

Client : Reliance Environmental, Inc. Lab Number : L2403288
 Project Name : OCEANSIDE PLAZA Project Number : BK-001
 Matrix (Level) : AIR (LOW)
 LCS Sample ID : WG1880230-3 Analysis Date : 01/31/24 12:18 File ID : r1542414
 LCSD Sample ID : Analysis Date : File ID :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
1,2,4-Trimethylbenzene	10	9.53	95				-	70-130	-
Benzyl chloride	10	9.54	95				-	70-130	-
1,4-Dichlorobenzene	10	8.69	87				-	70-130	-
1,2-Dichlorobenzene	10	8.47	85				-	70-130	-
1,2,4-Trichlorobenzene	10	8.25	82				-	70-130	-
Naphthalene	10	9.14	91				-	70-130	-



Laboratory Control Sample Summary

Form 3

Air Volatiles

Client : Reliance Environmental, Inc. Lab Number : L2403288
 Project Name : OCEANSIDE PLAZA Project Number : BK-001
 Matrix (Level) : AIR (LOW)
 LCS Sample ID : WG1880708-3 Analysis Date : 02/01/24 15:22 File ID : r1738298
 LCSD Sample ID : Analysis Date : File ID :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
Dichlorodifluoromethane	10	10.8	108				-	70-130	-
Chloromethane	10	9.58	96				-	70-130	-
Vinyl chloride	10	9.75	98				-	70-130	-
1,3-Butadiene	10	9.99	100				-	70-130	-
Bromomethane	10	10.2	102				-	70-130	-
Chloroethane	10	10.1	101				-	70-130	-
Vinyl bromide	10	10.2	102				-	70-130	-
Acrolein	10	8.77	88				-	60-113	-
Acetone	50	49.3	99				-	40-160	-
Trichlorofluoromethane	10	11.1	111				-	70-130	-
Isopropanol	25	21.3	85				-	40-160	-
Acrylonitrile	10	9.36	94				-	70-130	-
1,1-Dichloroethene	10	10.3	103				-	70-130	-
Methylene chloride	10	10.9	109				-	70-130	-
3-Chloropropene	10	11.3	113				-	70-130	-
Carbon disulfide	10	9.44	94				-	70-130	-
Freon-113	10	10.8	108				-	70-130	-
trans-1,2-Dichloroethene	10	10.6	106				-	70-130	-
1,1-Dichloroethane	10	10.7	107				-	70-130	-
Methyl tert butyl ether	10	9.41	94				-	70-130	-
cis-1,2-Dichloroethene	10	10.7	107				-	70-130	-
Chloroform	10	10.4	104				-	70-130	-
Tetrahydrofuran	10	10.8	108				-	70-130	-
1,2-Dichloroethane	10	10.9	109				-	70-130	-
n-Hexane	10	10.0	100				-	70-130	-
1,2-Dichloroethene, Total	20	21.2	106				-	-	-



Laboratory Control Sample Summary

Form 3

Air Volatiles

Client : Reliance Environmental, Inc. Lab Number : L2403288
 Project Name : OCEANSIDE PLAZA Project Number : BK-001
 Matrix (Level) : AIR (LOW)
 LCS Sample ID : WG1880708-3 Analysis Date : 02/01/24 15:22 File ID : r1738298
 LCSD Sample ID : Analysis Date : File ID :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
1,2-Dichloroethene, Total	20	21.2	106				-	-	-
1,1,1-Trichloroethane	10	10.6	106				-	70-130	-
Benzene	10	9.07	91				-	70-130	-
Carbon tetrachloride	10	11.2	112				-	70-130	-
Cyclohexane	10	10.0	100				-	70-130	-
1,2-Dichloropropane	10	10.7	107				-	70-130	-
Bromodichloromethane	10	11.2	112				-	70-130	-
1,4-Dioxane	10	10.2	102				-	70-130	-
Trichloroethene	10	10.4	104				-	70-130	-
Methyl Methacrylate	10	12.1	121				-	40-160	-
4-Methyl-2-pentanone	10	11.0	110				-	70-130	-
1,1,2-Trichloroethane	10	10.7	107				-	70-130	-
Toluene	10	9.71	97				-	70-130	-
1,3-Dichloropropane	10	9.26	93				-	70-130	-
Dibromochloromethane	10	12.4	124				-	70-130	-
1,2-Dibromoethane	10	10.0	100				-	70-130	-
Tetrachloroethene	10	9.76	98				-	70-130	-
Chlorobenzene	10	9.50	95				-	70-130	-
Ethylbenzene	10	9.97	100				-	70-130	-
p/m-Xylene	20	20.5	102				-	70-130	-
Bromoform	10	12.6	126				-	70-130	-
Styrene	10	9.48	95				-	70-130	-
1,1,1,2-Tetrachloroethane	10	10.2	102				-	70-130	-
o-Xylene	10	10.2	102				-	70-130	-
Isopropylbenzene	10	9.77	98				-	70-130	-
1,3,5-Trimethylbenzene	10	9.68	97				-	70-130	-



Laboratory Control Sample Summary

Form 3

Air Volatiles

Client : Reliance Environmental, Inc. Lab Number : L2403288
 Project Name : OCEANSIDE PLAZA Project Number : BK-001
 Matrix (Level) : AIR (LOW)
 LCS Sample ID : WG1880708-3 Analysis Date : 02/01/24 15:22 File ID : r1738298
 LCSD Sample ID : Analysis Date : File ID :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
1,2,4-Trimethylbenzene	10	9.73	97				-	70-130	-
Benzyl chloride	10	9.34	93				-	70-130	-
1,4-Dichlorobenzene	10	10.4	104				-	70-130	-
1,2-Dichlorobenzene	10	9.89	99				-	70-130	-
1,2,4-Trichlorobenzene	10	8.94	89				-	70-130	-
Naphthalene	10	8.67	87				-	70-130	-

Method Blank Summary
Form 4
Air Volatiles

Client	: Reliance Environmental, Inc.	Lab Number	: L2403288
Project Name	: OCEANSIDE PLAZA	Project Number	: BK-001
Lab Sample ID	: WG1880230-4	Lab File ID	: r1542416
Instrument ID	: AIRLAB15		
Matrix	: AIR	Analysis Date	: 01/31/24 14:23

Client Sample No.	Lab Sample ID	Analysis Date
WG1880230-3LCS	WG1880230-3	01/31/24 12:18
AMBIENT	L2403288-02	01/31/24 17:43
IA-DCR	L2403288-04	01/31/24 18:22
IA-DCF	L2403288-06	01/31/24 19:01
IA-WINE	L2403288-09	01/31/24 19:38
IA-YOGURT	L2403288-11	01/31/24 20:17
VS-FENCE	L2403288-01	01/31/24 20:56
VS-DCR	L2403288-03	01/31/24 21:36
VS-DCF	L2403288-05	01/31/24 22:15
VS-DCFDUP	WG1880230-5	01/31/24 22:53
VS-MRE	L2403288-07	01/31/24 23:32
VS-VAC	L2403288-08	02/01/24 00:11
VS-BOOK	L2403288-10	02/01/24 00:49
IA-DCF	L2403288-06D	02/01/24 09:00

**Method Blank Summary
Form 4
Air Volatiles**

Client	: Reliance Environmental, Inc.	Lab Number	: L2403288
Project Name	: OCEANSIDE PLAZA	Project Number	: BK-001
Lab Sample ID	: WG1880708-4	Lab File ID	: r1738300
Instrument ID	: AIRLAB17		
Matrix	: AIR	Analysis Date	: 02/01/24 18:07

Client Sample No.	Lab Sample ID	Analysis Date
WG1880708-3LCS	WG1880708-3	02/01/24 15:22
IA-DCR	L2403288-04D	02/02/24 02:31
VS-DUPDUP	WG1880708-5D	02/02/24 08:23

Instrument Performance Check (Tune) Summary

Form 5

Air Volatiles

Bromofluorobenzene (BFB)

Client : Reliance Environmental, Inc.	Lab Number : L2403288
Project Name : OCEANSIDE PLAZA	Project Number : BK-001
Instrument ID : AIRLAB15	Analysis Date : 11/20/23 19:17
Tune Standard : WG1855304-1	Tune File ID : r1540778_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	14.2
75	30.0 - 66.0% of mass 95	35.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.4 (.5)1
174	50.0 - 120.0% of mass 95	70.7
175	4.0 - 9.0% of mass 174	5 (7.1)1
176	93.0 - 101% of mass 174	65.9 (93.1)1
177	5.0 - 9.0% of mass 176	4.2 (6.4)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.2	R1766829-1	R1540782	11/20/23 21:44
STD0.5	R1766829-2	R1540783	11/20/23 22:22
STD1.0	R1766829-3	R1540784	11/20/23 23:03
STD5.0	R1766829-4	R1540785	11/20/23 23:42
STD010	R1766829-5	R1540786	11/21/23 00:23
STD020	R1766829-6	R1540787	11/21/23 01:00
STD050	R1766829-7	R1540788	11/21/23 01:39
STD100	R1766829-8	R1540789	11/21/23 02:20
ICV Quant	R1766829-9	R1540792	11/21/23 13:25

Instrument Performance Check (Tune) Summary

Form 5

Air Volatiles

Bromofluorobenzene (BFB)

Client : Reliance Environmental, Inc.	Lab Number : L2403288
Project Name : OCEANSIDE PLAZA	Project Number : BK-001
Instrument ID : AIRLAB15	Analysis Date : 01/31/24 10:56
Tune Standard : WG1880230-1	Tune File ID : r1542412_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	17.2
75	30.0 - 66.0% of mass 95	40.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.4 (.7)1
174	50.0 - 120.0% of mass 95	59.3
175	4.0 - 9.0% of mass 174	4.3 (7.2)1
176	93.0 - 101% of mass 174	58.4 (98.5)1
177	5.0 - 9.0% of mass 176	3.8 (6.5)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1880230-2CCAL	WG1880230-2	R1542413	01/31/24 11:37
WG1880230-3LCS	WG1880230-3	R1542414	01/31/24 12:18
WG1880230-4BLANK	WG1880230-4	R1542416	01/31/24 14:23
AMBIENT	L2403288-02	R1542418	01/31/24 17:43
IA-DCR	L2403288-04	R1542419	01/31/24 18:22
IA-DCF	L2403288-06	R1542420	01/31/24 19:01
IA-WINE	L2403288-09	R1542421	01/31/24 19:38
IA-YOGURT	L2403288-11	R1542422	01/31/24 20:17
VS-FENCE	L2403288-01	R1542423	01/31/24 20:56
VS-DCR	L2403288-03	R1542424	01/31/24 21:36
VS-DCF	L2403288-05	R1542425	01/31/24 22:15
WG1880230-5DUP	WG1880230-5	R1542426	01/31/24 22:53
VS-MRE	L2403288-07	R1542427	01/31/24 23:32
VS-VAC	L2403288-08	R1542428	02/01/24 00:11
VS-BOOK	L2403288-10	R1542429	02/01/24 00:49
IA-DCF	L2403288-06D	R1542441	02/01/24 09:00

Instrument Performance Check (Tune) Summary

Form 5

Air Volatiles

Bromofluorobenzene (BFB)

Client : Reliance Environmental, Inc.	Lab Number : L2403288
Project Name : OCEANSIDE PLAZA	Project Number : BK-001
Instrument ID : AIRLAB17	Analysis Date : 01/07/24 19:44
Tune Standard : WG1872080-1	Tune File ID : r1737672_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	16.8
75	30.0 - 66.0% of mass 95	40.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.4 (.6)1
174	50.0 - 120.0% of mass 95	68.5
175	4.0 - 9.0% of mass 174	4.8 (7)1
176	93.0 - 101% of mass 174	66.2 (96.7)1
177	5.0 - 9.0% of mass 176	4.3 (6.5)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.2	R1782626-1	R1737676	01/07/24 22:14
STD0.5	R1782626-2	R1737677	01/07/24 22:54
STD1.0	R1782626-3	R1737678	01/07/24 23:36
STD5.0	R1782626-4	R1737679	01/08/24 00:15
STD10.0	R1782626-5	R1737680	01/08/24 00:56
STD20	R1782626-6	R1737681	01/08/24 01:35
STD50	R1782626-7	R1737682	01/08/24 02:14
STD100	R1782626-8	R1737683	01/08/24 02:55
ICV QUANT	R1782626-9	R1737686	01/08/24 13:00

Instrument Performance Check (Tune) Summary

Form 5

Air Volatiles

Bromofluorobenzene (BFB)

Client : Reliance Environmental, Inc.	Lab Number : L2403288
Project Name : OCEANSIDE PLAZA	Project Number : BK-001
Instrument ID : AIRLAB17	Analysis Date : 02/01/24 13:19
Tune Standard : WG1880708-1	Tune File ID : r1738295_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	16.6
75	30.0 - 66.0% of mass 95	39.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.4 (.6)1
174	50.0 - 120.0% of mass 95	62.1
175	4.0 - 9.0% of mass 174	4.4 (7.1)1
176	93.0 - 101% of mass 174	61.3 (98.7)1
177	5.0 - 9.0% of mass 176	3.8 (6.3)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1880708-2CCAL	WG1880708-2	R1738297	02/01/24 14:40
WG1880708-3LCS	WG1880708-3	R1738298	02/01/24 15:22
WG1880708-4BLANK	WG1880708-4	R1738300	02/01/24 18:07
IA-DCR	L2403288-04D	R1738313	02/02/24 02:31
WG1880708-5DUP	WG1880708-5D	R1738322	02/02/24 08:23

Internal Standard Area and RT Summary

Form 8a

Air Volatiles

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRLAB15
 Sample No : WG1880230-2

Lab Number : L2403288
 Project Number : BK-001
 Analysis Date : 01/31/24 11:37:00
 Lab File ID : R1542413

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG1880230-2	375210	9.13	971110	11.34	187857	16.05
Upper Limit	525294	9.46	1359554	11.67	263000	16.38
Lower Limit	225126	8.80	582666	11.01	112714	15.72
Sample ID						
WG1880230-3 LCS	371971	9.13	984954	11.34	182555	16.05
WG1880230-4 BLANK	339343	9.13	897243	11.35	167050	16.05
AMBIENT	357447	9.13	921998	11.34	178709	16.05
IA-DCR	353472	9.13	918258	11.35	179115	16.05
IA-DCF	356262	9.13	901007	11.34	177612	16.05
IA-WINE	357210	9.13	917366	11.34	181110	16.05
IA-YOGURT	345262	9.13	897679	11.34	176417	16.05
VS-FENCE	357817	9.13	915061	11.34	182810	16.05
VS-DCR	354934	9.13	924574	11.35	184158	16.05
VS-DCF	357616	9.13	939341	11.35	218176	16.05
VS-DCF DUP	355818	9.13	939032	11.35	217693	16.05
VS-MRE	354691	9.13	923392	11.35	169962	16.05
VS-VAC	355376	9.13	958052	11.35	195122	16.05
VS-BOOK	342694	9.13	908835	11.35	185414	16.06
IA-DCF	321639	9.13	976324	11.35	150062	16.05

Area Upper Limit = +40% of internal standard area
 Area Lower Limit = - 40% of internal standard area

RT Upper Limit = +0.33 minutes of internal standard RT
 RT Lower Limit = -0.33 minutes of internal standard RT

* Values outside of QC limits



Internal Standard Area and RT Summary

Form 8a

Air Volatiles

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRLAB17
 Sample No : WG1880708-2

Lab Number : L2403288
 Project Number : BK-001
 Analysis Date : 02/01/24 14:40:00
 Lab File ID : R1738297

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG1880708-2	342891	8.84	918799	11.07	130233	15.83
Upper Limit	480047	9.17	1286319	11.40	182326	16.16
Lower Limit	205735	8.51	551279	10.74	78140	15.50
Sample ID						
WG1880708-3 LCS	346430	8.84	915365	11.07	131155	15.83
WG1880708-4 BLANK	287931	8.84	749016	11.08	105135	15.84
IA-DCR	327866	8.83	868663	11.07	121985	15.83
VS-DUP DUP	344138	8.83	923060	11.08	131123	15.84

Area Upper Limit = +40% of internal standard area
 Area Lower Limit = - 40% of internal standard area

RT Upper Limit = +0.33 minutes of internal standard RT
 RT Lower Limit = -0.33 minutes of internal standard RT

* Values outside of QC limits





Date Created: 01/09/24
Created By: Jason Hebert
File: PM15856-1
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Volatile Organics in Air: TO-15 (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,1,1-Trichloroethane	71-55-6	0.2	0.0614	ppbV	70-130			25	25			
1,1,2,2-Tetrachloroethane	79-34-5	0.2	0.052	ppbV	70-130			25	25			
1,1,2-Trichloroethane	79-00-5	0.2	0.0582	ppbV	70-130			25	25			
1,1-Dichloroethane	75-34-3	0.2	0.0568	ppbV	70-130			25	25			
1,1-Dichloroethene	75-35-4	0.2	0.0568	ppbV	70-130			25	25			
1,2,3-Trimethylbenzene	526-73-8	0.2	0.0576	ppbV	70-130			25	25			
1,2,4-Trichlorobenzene	120-82-1	0.2	0.1	ppbV	70-130			25	25			
1,2,4-Trimethylbenzene	95-63-6	0.2	0.0577	ppbV	70-130			25	25			
1,2,4,5-Tetramethylbenzene	95-93-2	0.2	0.135	ppbV	70-130			25	25			
1,2-Dibromoethane	106-93-4	0.2	0.0544	ppbV	70-130			25	25			
1,2-Dichlorobenzene	95-50-1	0.2	0.0619	ppbV	70-130			25	25			
1,2-Dichloroethane	107-06-2	0.2	0.0787	ppbV	70-130			25	25			
1,2-Dichloropropane	78-87-5	0.2	0.0631	ppbV	70-130			25	25			
1,3,5-Trimethylbenzene	108-67-8	0.2	0.06	ppbV	70-130			25	25			
1,3-Butadiene	106-99-0	0.2	0.0619	ppbV	70-130			25	25			
1,3-Dichlorobenzene	541-73-1	0.2	0.0777	ppbV	70-130			25	25			
1,4-Dichlorobenzene	106-46-7	0.2	0.0826	ppbV	70-130			25	25			
1,4-Dioxane	123-91-1	0.2	0.0538	ppbV	70-130			25	25			
2,2,4-Trimethylpentane	540-84-1	0.2	0.0692	ppbV	70-130			25	25			
2-Butanone	78-93-3	0.5	0.099	ppbV	70-130			25	25			
2-Hexanone	591-78-6	0.2	0.0912	ppbV	70-130			25	25			
2-Methylthiophene	554-14-3	0.2	0.0622	ppbV	70-130			25	25			
3-Methylthiophene	616-44-4	0.2	0.0634	ppbV	70-130			25	25			
3-Chloropropene	107-05-1	0.2	0.086	ppbV	70-130			25	25			
2-Ethylthiophene	872-55-9	0.2	0.0612	ppbV	70-130			25	25			
4-Ethyltoluene	622-96-8	0.2	0.0554	ppbV	70-130			25	25			
Acetone	67-64-1	1	0.515	ppbV	40-160			25	25			
Benzene	71-43-2	0.2	0.0643	ppbV	70-130			25	25			
Benzyl chloride	100-44-7	0.2	0.0939	ppbV	70-130			25	25			
Benzothiophene	95-15-8	0.5	0.273	ppbV	70-130			25	25			
Bromodichloromethane	75-27-4	0.2	0.0689	ppbV	70-130			25	25			
Bromoform	75-25-2	0.2	0.0596	ppbV	70-130			25	25			
Bromomethane	74-83-9	0.2	0.0547	ppbV	70-130			25	25			
Carbon disulfide	75-15-0	0.2	0.0465	ppbV	70-130			25	25			
Carbon tetrachloride	56-23-5	0.2	0.0686	ppbV	70-130			25	25			
Chlorobenzene	108-90-7	0.2	0.0516	ppbV	70-130			25	25			
Chloroethane	75-00-3	0.2	0.0649	ppbV	70-130			25	25			
Chloroform	67-66-3	0.2	0.0552	ppbV	70-130			25	25			
Chloromethane	74-87-3	0.2	0.0576	ppbV	70-130			25	25			
cis-1,2-Dichloroethene	156-59-2	0.2	0.0595	ppbV	70-130			25	25			
cis-1,3-Dichloropropene	10061-01-5	0.2	0.0674	ppbV	70-130			25	25			
Cyclohexane	110-82-7	0.2	0.0728	ppbV	70-130			25	25			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
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Volatile Organics in Air: TO-15 (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibromochloromethane	124-48-1	0.2	0.0566	ppbV	70-130			25	25			
Dichlorodifluoromethane	75-71-8	0.2	0.0757	ppbV	70-130			25	25			
Ethyl Alcohol	GCDAl06	5	1.74	ppbV	40-160			25	25			
Ethyl Acetate	141-78-6	0.5	0.297	ppbV	70-130			25	25			
Ethylbenzene	100-41-4	0.2	0.0575	ppbV	70-130			25	25			
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	0.2	0.0506	ppbV	70-130			25	25			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	0.2	0.0504	ppbV	70-130			25	25			
Hexachlorobutadiene	87-68-3	0.2	0.0607	ppbV	70-130			25	25			
iso-Propyl Alcohol	67-63-0	0.5	0.272	ppbV	40-160			25	25			
Methylene chloride	75-09-2	0.5	0.125	ppbV	70-130			25	25			
4-Methyl-2-pentanone	108-10-1	0.5	0.19	ppbV	70-130			25	25			
Methyl tert butyl ether	1634-04-4	0.2	0.045	ppbV	70-130			25	25			
Methyl Methacrylate	80-62-6	0.5	0.226	ppbV	40-160			25	25			
p/m-Xylene	179601-23-1	0.4	0.125	ppbV	70-130			25	25			
o-Xylene	95-47-6	0.2	0.0621	ppbV	70-130			25	25			
Xylene (Total)	1330-20-7	0.2	0.0621	ppbV				25	25			
Heptane	142-82-5	0.2	0.0828	ppbV	70-130			25	25			
n-Heptane	142-82-5	0.2	0.0828	ppbV	70-130			25	25			
n-Hexane	110-54-3	0.2	0.0743	ppbV	70-130			25	25			
Propylene	115-07-1	0.5	0.135	ppbV	70-130			25	25			
Styrene	100-42-5	0.2	0.0596	ppbV	70-130			25	25			
Tetrachloroethene	127-18-4	0.2	0.0627	ppbV	70-130			25	25			
Thiophene	110-02-1	0.2	0.052	ppbV	70-130			25	25			
Tetrahydrofuran	109-99-9	0.5	0.117	ppbV	70-130			25	25			
Toluene	108-88-3	0.2	0.0867	ppbV	70-130			25	25			
trans-1,2-Dichloroethene	156-60-5	0.2	0.0755	ppbV	70-130			25	25			
1,2-Dichloroethene (total)	540-59-0	0.2	0.0595	ppbV				25	25			
trans-1,3-Dichloropropene	10061-02-6	0.2	0.0783	ppbV	70-130			25	25			
1,3-Dichloropropene, Total	542-75-6	0.2	0.0674	ppbV				25	25			
Trichloroethene	79-01-6	0.2	0.0548	ppbV	70-130			25	25			
Trichlorofluoromethane	75-69-4	0.2	0.0787	ppbV	70-130			25	25			
Vinyl acetate	108-05-4	1	0.323	ppbV	70-130			25	25			
Vinyl bromide	593-60-2	0.2	0.0722	ppbV	70-130			25	25			
Vinyl chloride	75-01-4	0.2	0.0582	ppbV	70-130			25	25			
Naphthalene	91-20-3	0.2	0.078	ppbV	70-130			25	25			
Total HC As Hexane	NONE	10	0.0743	ppbV	70-130			25	25			
Total VOCs As Toluene	NONE	10	0.0867	ppbV	70-130			25	25			
Propane	74-98-6	0.5	0.152	ppbV	70-130			25	25			
Acrylonitrile	107-13-1	0.5	0.0894	ppbV	70-130			25	25			
Acrolein	107-02-8	0.5	0.149	ppbV	60-113			25	25			
1,1,1,2-Tetrachloroethane	630-20-6	0.2	0.0508	ppbV	70-130			25	25			
Isopropylbenzene	98-82-8	0.2	0.0621	ppbV	70-130			25	25			

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Volatile Organics in Air: TO-15 (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,2,3-Trichloropropane	96-18-4	0.2	0.0575	ppbV	70-130			25	25			
Acetonitrile	75-05-8	0.2	0.101	ppbV	70-130			25	25			
Bromobenzene	108-86-1	0.2	0.0579	ppbV	70-130			25	25			
Chlorodifluoromethane	75-45-6	0.2	0.0463	ppbV	70-130			25	25			
Dichlorofluoromethane	75-43-4	0.2	0.112	ppbV	70-130			25	25			
Dibromomethane	74-95-3	0.2	0.0598	ppbV	70-130			25	25			
Pentane	109-66-0	0.2	0.113	ppbV	70-130			25	25			
Octane	111-65-9	0.2	0.0676	ppbV	70-130			25	25			
Tertiary-Amyl Methyl Ether	994-05-8	0.2	0.0672	ppbV	70-130			25	25			
o-Chlorotoluene	95-49-8	0.2	0.0761	ppbV	70-130			25	25			
p-Chlorotoluene	106-43-4	0.2	0.0765	ppbV	70-130			25	25			
2,2-Dichloropropane	594-20-7	0.2	0.0429	ppbV	70-130			25	25			
1,1-Dichloropropene	563-58-6	0.2	0.0593	ppbV	70-130			25	25			
Isopropyl Ether	108-20-3	0.2	0.0631	ppbV	70-130			25	25			
Ethyl-Tert-Butyl-Ether	637-92-3	0.2	0.0731	ppbV	70-130			25	25			
1,2,3-Trichlorobenzene	87-61-6	0.2	0.0738	ppbV	70-130			25	25			
Ethyl ether	60-29-7	0.2	0.0853	ppbV	70-130			25	25			
n-Butylbenzene	104-51-8	0.2	0.0536	ppbV	70-130			25	25			
sec-Butylbenzene	135-98-8	0.2	0.0547	ppbV	70-130			25	25			
tert-Butylbenzene	98-06-6	0.2	0.0551	ppbV	70-130			25	25			
1,2-Dibromo-3-chloropropane	96-12-8	0.2	0.0624	ppbV	70-130			25	25			
p-Isopropyltoluene	99-87-6	0.2	0.0567	ppbV	70-130			25	25			
n-Propylbenzene	103-65-1	0.2	0.0633	ppbV	70-130			25	25			
1,3-Dichloropropane	142-28-9	0.2	0.0536	ppbV	70-130			25	25			
Methanol	67-56-1	5	3.029	ppbV	70-130			25	25			
Acetaldehyde	75-07-0	2.5	1.73	ppbV	70-130			25	25			
Butane	106-97-8	0.2	0.08	ppbV	70-130			25	25			
Nonane (C9)	111-84-2	0.2	0.0737	ppbV	70-130			25	25			
Decane (C10)	124-18-5	0.2	0.0697	ppbV	70-130			25	25			
Undecane	1120-21-4	0.2	0.0709	ppbV	70-130			25	25			
Indane	496-11-7	0.2	0.0591	ppbV	70-130			25	25			
Indene	95-13-6	0.2	0.0711	ppbV	70-130			25	25			
1-Methylnaphthalene	90-12-0	1	0.264	ppbV	70-130			25	25			
Dodecane (C12)	112-40-3	0.2	0.0891	ppbV	70-130			25	25			
Butyl Acetate	123-86-4	0.5	0.208	ppbV	70-130			25	25			
tert-Butyl Alcohol	75-65-0	0.5	0.132	ppbV	70-130			25	25			
2-Methylnaphthalene	91-57-6	1	0.259	ppbV	70-130			25	25			
1,2-Dichloroethane-d4	17060-07-0									70-130		
Toluene-d8	2037-26-5									70-130		
Bromofluorobenzene	460-00-4									70-130		

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Volatiles Sample Data

Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L2403288-01
 Client ID : VS-FENCE
 Sample Location :
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1542423
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 16:05
 Date Received : 01/19/24
 Date Analyzed : 01/31/24 20:56
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.489	0.200	0.076	2.42	0.989	0.374	
74-87-3	Chloromethane	0.465	0.200	0.058	0.960	0.413	0.119	
75-01-4	Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149	U
106-99-0	1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137	U
74-83-9	Bromomethane	ND	0.200	0.055	ND	0.777	0.212	U
75-00-3	Chloroethane	ND	0.200	0.065	ND	0.528	0.171	U
593-60-2	Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316	U
107-02-8	Acrolein	0.341	0.500	0.149	0.782	1.15	0.342	J
67-64-1	Acetone	14.0	1.00	0.515	33.3	2.38	1.22	
75-69-4	Trichlorofluoromethane	0.245	0.200	0.079	1.38	1.12	0.442	
67-63-0	Isopropanol	3.46	0.500	0.272	8.50	1.23	0.669	
107-13-1	Acrylonitrile	0.172	0.500	0.089	0.373	1.09	0.194	J
75-35-4	1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225	U
75-09-2	Methylene chloride	0.176	0.500	0.125	0.611	1.74	0.434	J
107-05-1	3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269	U
75-15-0	Carbon disulfide	0.206	0.200	0.047	0.642	0.623	0.145	
76-13-1	Freon-113	0.067	0.200	0.051	0.514	1.53	0.388	J
156-60-5	trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299	U
75-34-3	1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230	U
1634-04-4	Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236	U
67-66-3	Chloroform	ND	0.200	0.055	ND	0.977	0.270	U
109-99-9	Tetrahydrofuran	0.344	0.500	0.117	1.01	1.47	0.345	J
107-06-2	1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319	U
110-54-3	n-Hexane	0.382	0.200	0.074	1.35	0.705	0.262	
71-55-6	1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335	U



Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L2403288-01
 Client ID : VS-FENCE
 Sample Location :
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1542423
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 16:05
 Date Received : 01/19/24
 Date Analyzed : 01/31/24 20:56
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
71-43-2	Benzene	1.90	0.200	0.064	6.07	0.639	0.205	
56-23-5	Carbon tetrachloride	0.071	0.200	0.069	0.447	1.26	0.432	J
110-82-7	Cyclohexane	0.084	0.200	0.073	0.289	0.688	0.251	J
78-87-5	1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292	U
75-27-4	Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462	U
123-91-1	1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194	U
79-01-6	Trichloroethene	ND	0.200	0.055	ND	1.07	0.295	U
80-62-6	Methyl Methacrylate	ND	0.500	0.226	ND	2.05	0.925	U
1330-20-7	Xylenes, Total	0.241	0.200	0.062	1.05	0.869	0.270	J
108-10-1	4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318	U
108-88-3	Toluene	0.731	0.200	0.087	2.75	0.754	0.327	
142-28-9	1,3-Dichloropropane	ND	0.200	0.054	ND	0.924	0.248	U
124-48-1	Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482	U
106-93-4	1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418	U
127-18-4	Tetrachloroethene	ND	0.200	0.063	ND	1.36	0.425	U
108-90-7	Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238	U
100-41-4	Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250	U
540-59-0	1,2-Dichloroethene, Total	ND	0.200	0.060	ND	0.793	0.236	U
179601-23-1	p/m-Xylene	0.177	0.400	0.125	0.769	1.74	0.543	J
75-25-2	Bromoform	ND	0.200	0.060	ND	2.07	0.616	U
100-42-5	Styrene	ND	0.200	0.060	ND	0.852	0.254	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357	U
95-47-6	o-Xylene	0.064	0.200	0.062	0.278	0.869	0.270	J
98-82-8	Isopropylbenzene	ND	0.200	0.062	ND	0.983	0.305	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295	U



Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L2403288-01
 Client ID : VS-FENCE
 Sample Location :
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1542423
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 16:05
 Date Received : 01/19/24
 Date Analyzed : 01/31/24 20:56
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284	U
100-44-7	Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742	U
91-20-3	Naphthalene	ND	0.200	0.078	ND	1.05	0.409	U



Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L2403288-02
 Client ID : AMBIENT
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1542418
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 16:08
 Date Received : 01/19/24
 Date Analyzed : 01/31/24 17:43
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.499	0.200	0.076	2.47	0.989	0.374	
74-87-3	Chloromethane	0.698	0.200	0.058	1.44	0.413	0.119	
75-01-4	Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149	U
106-99-0	1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137	U
74-83-9	Bromomethane	ND	0.200	0.055	ND	0.777	0.212	U
75-00-3	Chloroethane	ND	0.200	0.065	ND	0.528	0.171	U
593-60-2	Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316	U
67-64-1	Acetone	7.22	1.00	0.515	17.2	2.38	1.22	
75-69-4	Trichlorofluoromethane	0.271	0.200	0.079	1.52	1.12	0.442	
67-63-0	Isopropanol	0.703	0.500	0.272	1.73	1.23	0.669	
75-35-4	1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225	U
75-09-2	Methylene chloride	0.197	0.500	0.125	0.684	1.74	0.434	J
107-05-1	3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269	U
75-15-0	Carbon disulfide	0.048	0.200	0.047	0.149	0.623	0.145	J
76-13-1	Freon-113	0.067	0.200	0.051	0.514	1.53	0.388	J
156-60-5	trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299	U
75-34-3	1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230	U
1634-04-4	Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236	U
67-66-3	Chloroform	ND	0.200	0.055	ND	0.977	0.270	U
109-99-9	Tetrahydrofuran	0.122	0.500	0.117	0.360	1.47	0.345	J
107-06-2	1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319	U
110-54-3	n-Hexane	0.179	0.200	0.074	0.631	0.705	0.262	J
71-55-6	1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335	U
71-43-2	Benzene	0.227	0.200	0.064	0.725	0.639	0.205	
56-23-5	Carbon tetrachloride	0.075	0.200	0.069	0.472	1.26	0.432	J



Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L2403288-02
 Client ID : AMBIENT
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1542418
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 16:08
 Date Received : 01/19/24
 Date Analyzed : 01/31/24 17:43
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	ND	0.200	0.073	ND	0.688	0.251	U
78-87-5	1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292	U
123-91-1	1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194	U
79-01-6	Trichloroethene	ND	0.200	0.055	ND	1.07	0.295	U
80-62-6	Methyl Methacrylate	ND	0.500	0.226	ND	2.05	0.925	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779	U
108-88-3	Toluene	0.168	0.200	0.087	0.633	0.754	0.327	J
142-28-9	1,3-Dichloropropane	ND	0.200	0.054	ND	0.924	0.248	U
1330-20-7	Xylenes, Total	ND	0.200	0.062	ND	0.869	0.270	U
127-18-4	Tetrachloroethene	0.068	0.200	0.063	0.461	1.36	0.425	J
108-90-7	Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238	U
100-41-4	Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250	U
179601-23-1	p/m-Xylene	ND	0.400	0.125	ND	1.74	0.543	U
75-25-2	Bromoform	ND	0.200	0.060	ND	2.07	0.616	U
100-42-5	Styrene	ND	0.200	0.060	ND	0.852	0.254	U
95-47-6	o-Xylene	ND	0.200	0.062	ND	0.869	0.270	U
98-82-8	Isopropylbenzene	ND	0.200	0.062	ND	0.983	0.305	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295	U
540-59-0	1,2-Dichloroethene, Total	ND	0.200	0.060	ND	0.793	0.236	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742	U



Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L2403288-03
 Client ID : VS-DCR
 Sample Location :
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1542424
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 16:48
 Date Received : 01/19/24
 Date Analyzed : 01/31/24 21:36
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.485	0.200	0.076	2.40	0.989	0.374	
74-87-3	Chloromethane	0.261	0.200	0.058	0.539	0.413	0.119	
75-01-4	Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149	U
106-99-0	1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137	U
74-83-9	Bromomethane	ND	0.200	0.055	ND	0.777	0.212	U
75-00-3	Chloroethane	ND	0.200	0.065	ND	0.528	0.171	U
593-60-2	Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316	U
107-02-8	Acrolein	0.242	0.500	0.149	0.555	1.15	0.342	J
67-64-1	Acetone	62.7	1.00	0.515	149	2.38	1.22	
75-69-4	Trichlorofluoromethane	0.260	0.200	0.079	1.46	1.12	0.442	
67-63-0	Isopropanol	31.2	0.500	0.272	76.7	1.23	0.669	
107-13-1	Acrylonitrile	1.16	0.500	0.089	2.52	1.09	0.194	
75-35-4	1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225	U
75-09-2	Methylene chloride	0.278	0.500	0.125	0.966	1.74	0.434	J
107-05-1	3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269	U
75-15-0	Carbon disulfide	0.444	0.200	0.047	1.38	0.623	0.145	
76-13-1	Freon-113	0.064	0.200	0.051	0.491	1.53	0.388	J
156-60-5	trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299	U
75-34-3	1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230	U
1634-04-4	Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236	U
67-66-3	Chloroform	0.146	0.200	0.055	0.713	0.977	0.270	J
109-99-9	Tetrahydrofuran	2.04	0.500	0.117	6.02	1.47	0.345	
107-06-2	1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319	U
110-54-3	n-Hexane	1.56	0.200	0.074	5.50	0.705	0.262	
71-55-6	1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335	U



Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L2403288-03
 Client ID : VS-DCR
 Sample Location :
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1542424
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 16:48
 Date Received : 01/19/24
 Date Analyzed : 01/31/24 21:36
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
71-43-2	Benzene	2.80	0.200	0.064	8.95	0.639	0.205	
56-23-5	Carbon tetrachloride	ND	0.200	0.069	ND	1.26	0.432	U
110-82-7	Cyclohexane	0.178	0.200	0.073	0.613	0.688	0.251	J
78-87-5	1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292	U
75-27-4	Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462	U
123-91-1	1,4-Dioxane	0.362	0.200	0.054	1.30	0.721	0.194	
79-01-6	Trichloroethene	0.235	0.200	0.055	1.26	1.07	0.295	
80-62-6	Methyl Methacrylate	ND	0.500	0.226	ND	2.05	0.925	U
1330-20-7	Xylenes, Total	2.91	0.200	0.062	12.6	0.869	0.270	
108-10-1	4-Methyl-2-pentanone	0.607	0.500	0.190	2.49	2.05	0.779	
79-00-5	1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318	U
108-88-3	Toluene	4.18	0.200	0.087	15.8	0.754	0.327	
142-28-9	1,3-Dichloropropane	ND	0.200	0.054	ND	0.924	0.248	U
124-48-1	Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482	U
106-93-4	1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418	U
127-18-4	Tetrachloroethene	1.26	0.200	0.063	8.54	1.36	0.425	
108-90-7	Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238	U
100-41-4	Ethylbenzene	0.925	0.200	0.058	4.02	0.869	0.250	
540-59-0	1,2-Dichloroethene, Total	ND	0.200	0.060	ND	0.793	0.236	U
179601-23-1	p/m-Xylene	2.15	0.400	0.125	9.34	1.74	0.543	
75-25-2	Bromoform	ND	0.200	0.060	ND	2.07	0.616	U
100-42-5	Styrene	1.55	0.200	0.060	6.60	0.852	0.254	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357	U
95-47-6	o-Xylene	0.760	0.200	0.062	3.30	0.869	0.270	
98-82-8	Isopropylbenzene	0.088	0.200	0.062	0.433	0.983	0.305	J
108-67-8	1,3,5-Trimethylbenzene	0.132	0.200	0.060	0.649	0.983	0.295	J



Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L2403288-03
 Client ID : VS-DCR
 Sample Location :
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1542424
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 16:48
 Date Received : 01/19/24
 Date Analyzed : 01/31/24 21:36
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
95-63-6	1,2,4-Trimethylbenzene	0.428	0.200	0.058	2.10	0.983	0.284	
100-44-7	Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742	U
91-20-3	Naphthalene	ND	0.200	0.078	ND	1.05	0.409	U

Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L2403288-04
 Client ID : IA-DCR
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1542419
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 16:50
 Date Received : 01/19/24
 Date Analyzed : 01/31/24 18:22
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.506	0.200	0.076	2.50	0.989	0.374	
74-87-3	Chloromethane	0.970	0.200	0.058	2.00	0.413	0.119	
75-01-4	Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149	U
106-99-0	1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137	U
74-83-9	Bromomethane	ND	0.200	0.055	ND	0.777	0.212	U
75-00-3	Chloroethane	ND	0.200	0.065	ND	0.528	0.171	U
593-60-2	Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316	U
67-64-1	Acetone	18.0	1.00	0.515	42.8	2.38	1.22	
75-69-4	Trichlorofluoromethane	0.385	0.200	0.079	2.16	1.12	0.442	
67-63-0	Isopropanol	296	0.500	0.272	728E	1.23	0.669	E
75-35-4	1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225	U
75-09-2	Methylene chloride	1.07	0.500	0.125	3.72	1.74	0.434	
107-05-1	3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269	U
75-15-0	Carbon disulfide	0.103	0.200	0.047	0.321	0.623	0.145	J
76-13-1	Freon-113	0.064	0.200	0.051	0.491	1.53	0.388	J
156-60-5	trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299	U
75-34-3	1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230	U
1634-04-4	Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236	U
67-66-3	Chloroform	0.117	0.200	0.055	0.571	0.977	0.270	J
109-99-9	Tetrahydrofuran	1.12	0.500	0.117	3.30	1.47	0.345	
107-06-2	1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319	U
110-54-3	n-Hexane	0.760	0.200	0.074	2.68	0.705	0.262	
71-55-6	1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335	U
71-43-2	Benzene	0.319	0.200	0.064	1.02	0.639	0.205	
56-23-5	Carbon tetrachloride	0.069	0.200	0.069	0.434	1.26	0.432	J



Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L2403288-04
 Client ID : IA-DCR
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1542419
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 16:50
 Date Received : 01/19/24
 Date Analyzed : 01/31/24 18:22
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	ND	0.200	0.073	ND	0.688	0.251	U
78-87-5	1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292	U
123-91-1	1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194	U
79-01-6	Trichloroethene	ND	0.200	0.055	ND	1.07	0.295	U
80-62-6	Methyl Methacrylate	ND	0.500	0.226	ND	2.05	0.925	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779	U
108-88-3	Toluene	0.347	0.200	0.087	1.31	0.754	0.327	
142-28-9	1,3-Dichloropropane	ND	0.200	0.054	ND	0.924	0.248	U
1330-20-7	Xylenes, Total	0.289	0.200	0.062	1.26	0.869	0.270	J
127-18-4	Tetrachloroethene	0.079	0.200	0.063	0.536	1.36	0.425	J
108-90-7	Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238	U
100-41-4	Ethylbenzene	0.061	0.200	0.058	0.265	0.869	0.250	J
179601-23-1	p/m-Xylene	0.208	0.400	0.125	0.903	1.74	0.543	J
75-25-2	Bromoform	ND	0.200	0.060	ND	2.07	0.616	U
100-42-5	Styrene	0.118	0.200	0.060	0.502	0.852	0.254	J
95-47-6	o-Xylene	0.081	0.200	0.062	0.352	0.869	0.270	J
98-82-8	Isopropylbenzene	ND	0.200	0.062	ND	0.983	0.305	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295	U
540-59-0	1,2-Dichloroethene, Total	ND	0.200	0.060	ND	0.793	0.236	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742	U



Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L2403288-04D
 Client ID : IA-DCR
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1738313
 Sample Amount : 25.0 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 16:50
 Date Received : 01/19/24
 Date Analyzed : 02/02/24 02:31
 Dilution Factor : 10
 Analyst : JMB
 Instrument ID : AIRLAB17
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
67-63-0	Isopropanol	220	5.00	2.72	541	12.3	6.69	



Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L2403288-05
 Client ID : VS-DCF
 Sample Location :
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1542425
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 16:52
 Date Received : 01/19/24
 Date Analyzed : 01/31/24 22:15
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.552	0.200	0.076	2.73	0.989	0.374	
74-87-3	Chloromethane	0.258	0.200	0.058	0.533	0.413	0.119	
75-01-4	Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149	U
106-99-0	1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137	U
74-83-9	Bromomethane	ND	0.200	0.055	ND	0.777	0.212	U
75-00-3	Chloroethane	ND	0.200	0.065	ND	0.528	0.171	U
593-60-2	Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316	U
107-02-8	Acrolein	0.162	0.500	0.149	0.371	1.15	0.342	J
67-64-1	Acetone	29.1	1.00	0.515	69.1	2.38	1.22	
75-69-4	Trichlorofluoromethane	0.541	0.200	0.079	3.04	1.12	0.442	
67-63-0	Isopropanol	32.3	0.500	0.272	79.4	1.23	0.669	
107-13-1	Acrylonitrile	0.441	0.500	0.089	0.957	1.09	0.194	J
75-35-4	1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225	U
75-09-2	Methylene chloride	1.75	0.500	0.125	6.08	1.74	0.434	
107-05-1	3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269	U
75-15-0	Carbon disulfide	0.330	0.200	0.047	1.03	0.623	0.145	
76-13-1	Freon-113	0.062	0.200	0.051	0.475	1.53	0.388	J
156-60-5	trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299	U
75-34-3	1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230	U
1634-04-4	Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236	U
67-66-3	Chloroform	ND	0.200	0.055	ND	0.977	0.270	U
109-99-9	Tetrahydrofuran	0.713	0.500	0.117	2.10	1.47	0.345	
107-06-2	1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319	U
110-54-3	n-Hexane	0.608	0.200	0.074	2.14	0.705	0.262	
71-55-6	1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335	U



Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L2403288-05
 Client ID : VS-DCF
 Sample Location :
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1542425
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 16:52
 Date Received : 01/19/24
 Date Analyzed : 01/31/24 22:15
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
71-43-2	Benzene	0.286	0.200	0.064	0.914	0.639	0.205	
56-23-5	Carbon tetrachloride	ND	0.200	0.069	ND	1.26	0.432	U
110-82-7	Cyclohexane	0.114	0.200	0.073	0.392	0.688	0.251	J
78-87-5	1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292	U
75-27-4	Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462	U
123-91-1	1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194	U
79-01-6	Trichloroethene	0.178	0.200	0.055	0.957	1.07	0.295	J
80-62-6	Methyl Methacrylate	ND	0.500	0.226	ND	2.05	0.925	U
1330-20-7	Xylenes, Total	0.968	0.200	0.062	4.20	0.869	0.270	
108-10-1	4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318	U
108-88-3	Toluene	1.22	0.200	0.087	4.60	0.754	0.327	
142-28-9	1,3-Dichloropropane	ND	0.200	0.054	ND	0.924	0.248	U
124-48-1	Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482	U
106-93-4	1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418	U
127-18-4	Tetrachloroethene	0.488	0.200	0.063	3.31	1.36	0.425	
108-90-7	Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238	U
100-41-4	Ethylbenzene	0.270	0.200	0.058	1.17	0.869	0.250	
540-59-0	1,2-Dichloroethene, Total	ND	0.200	0.060	ND	0.793	0.236	U
179601-23-1	p/m-Xylene	0.715	0.400	0.125	3.11	1.74	0.543	
75-25-2	Bromoform	ND	0.200	0.060	ND	2.07	0.616	U
100-42-5	Styrene	0.501	0.200	0.060	2.13	0.852	0.254	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357	U
95-47-6	o-Xylene	0.253	0.200	0.062	1.10	0.869	0.270	
98-82-8	Isopropylbenzene	ND	0.200	0.062	ND	0.983	0.305	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295	U



Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L2403288-05
 Client ID : VS-DCF
 Sample Location :
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1542425
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 16:52
 Date Received : 01/19/24
 Date Analyzed : 01/31/24 22:15
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
95-63-6	1,2,4-Trimethylbenzene	0.194	0.200	0.058	0.954	0.983	0.284	J
100-44-7	Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742	U
91-20-3	Naphthalene	ND	0.200	0.078	ND	1.05	0.409	U



Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L2403288-06
 Client ID : IA-DCF
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1542420
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 16:54
 Date Received : 01/19/24
 Date Analyzed : 01/31/24 19:01
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.492	0.200	0.076	2.43	0.989	0.374	
74-87-3	Chloromethane	0.824	0.200	0.058	1.70	0.413	0.119	
75-01-4	Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149	U
106-99-0	1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137	U
74-83-9	Bromomethane	ND	0.200	0.055	ND	0.777	0.212	U
75-00-3	Chloroethane	ND	0.200	0.065	ND	0.528	0.171	U
593-60-2	Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316	U
67-64-1	Acetone	18.3	1.00	0.515	43.5	2.38	1.22	
75-69-4	Trichlorofluoromethane	0.247	0.200	0.079	1.39	1.12	0.442	
67-63-0	Isopropanol	399	0.500	0.272	981E	1.23	0.669	E
75-35-4	1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225	U
75-09-2	Methylene chloride	1.09	0.500	0.125	3.79	1.74	0.434	
107-05-1	3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269	U
75-15-0	Carbon disulfide	0.059	0.200	0.047	0.184	0.623	0.145	J
76-13-1	Freon-113	0.067	0.200	0.051	0.514	1.53	0.388	J
156-60-5	trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299	U
75-34-3	1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230	U
1634-04-4	Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236	U
67-66-3	Chloroform	0.088	0.200	0.055	0.430	0.977	0.270	J
109-99-9	Tetrahydrofuran	0.325	0.500	0.117	0.959	1.47	0.345	J
107-06-2	1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319	U
110-54-3	n-Hexane	0.222	0.200	0.074	0.782	0.705	0.262	
71-55-6	1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335	U
71-43-2	Benzene	0.276	0.200	0.064	0.882	0.639	0.205	
56-23-5	Carbon tetrachloride	0.069	0.200	0.069	0.434	1.26	0.432	J



Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L2403288-06
 Client ID : IA-DCF
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1542420
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 16:54
 Date Received : 01/19/24
 Date Analyzed : 01/31/24 19:01
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	ND	0.200	0.073	ND	0.688	0.251	U
78-87-5	1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292	U
123-91-1	1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194	U
79-01-6	Trichloroethene	ND	0.200	0.055	ND	1.07	0.295	U
80-62-6	Methyl Methacrylate	ND	0.500	0.226	ND	2.05	0.925	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779	U
108-88-3	Toluene	0.236	0.200	0.087	0.889	0.754	0.327	
142-28-9	1,3-Dichloropropane	ND	0.200	0.054	ND	0.924	0.248	U
1330-20-7	Xylenes, Total	0.127	0.200	0.062	0.552	0.869	0.270	J
127-18-4	Tetrachloroethene	0.099	0.200	0.063	0.671	1.36	0.425	J
108-90-7	Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238	U
100-41-4	Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250	U
179601-23-1	p/m-Xylene	0.127	0.400	0.125	0.552	1.74	0.543	J
75-25-2	Bromoform	ND	0.200	0.060	ND	2.07	0.616	U
100-42-5	Styrene	0.067	0.200	0.060	0.285	0.852	0.254	J
95-47-6	o-Xylene	ND	0.200	0.062	ND	0.869	0.270	U
98-82-8	Isopropylbenzene	ND	0.200	0.062	ND	0.983	0.305	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295	U
540-59-0	1,2-Dichloroethene, Total	ND	0.200	0.060	ND	0.793	0.236	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742	U



Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L2403288-06D
 Client ID : IA-DCF
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1542441
 Sample Amount : 25.0 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 16:54
 Date Received : 01/19/24
 Date Analyzed : 02/01/24 09:00
 Dilution Factor : 10
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
67-63-0	Isopropanol	432	5.00	2.72	1060	12.3	6.69	



Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L2403288-07
 Client ID : VS-MRE
 Sample Location :
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1542427
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 16:56
 Date Received : 01/19/24
 Date Analyzed : 01/31/24 23:32
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.501	0.200	0.076	2.48	0.989	0.374	
74-87-3	Chloromethane	0.360	0.200	0.058	0.743	0.413	0.119	
75-01-4	Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149	U
106-99-0	1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137	U
74-83-9	Bromomethane	ND	0.200	0.055	ND	0.777	0.212	U
75-00-3	Chloroethane	ND	0.200	0.065	ND	0.528	0.171	U
593-60-2	Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316	U
107-02-8	Acrolein	0.194	0.500	0.149	0.445	1.15	0.342	J
67-64-1	Acetone	91.2	1.00	0.515	217	2.38	1.22	
75-69-4	Trichlorofluoromethane	0.307	0.200	0.079	1.73	1.12	0.442	
67-63-0	Isopropanol	97.4	0.500	0.272	239	1.23	0.669	
107-13-1	Acrylonitrile	0.668	0.500	0.089	1.45	1.09	0.194	
75-35-4	1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225	U
75-09-2	Methylene chloride	0.542	0.500	0.125	1.88	1.74	0.434	
107-05-1	3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269	U
75-15-0	Carbon disulfide	0.613	0.200	0.047	1.91	0.623	0.145	
76-13-1	Freon-113	0.072	0.200	0.051	0.552	1.53	0.388	J
156-60-5	trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299	U
75-34-3	1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230	U
1634-04-4	Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236	U
67-66-3	Chloroform	0.199	0.200	0.055	0.972	0.977	0.270	J
109-99-9	Tetrahydrofuran	1.61	0.500	0.117	4.75	1.47	0.345	
107-06-2	1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319	U
110-54-3	n-Hexane	1.36	0.200	0.074	4.79	0.705	0.262	
71-55-6	1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335	U



Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L2403288-07
 Client ID : VS-MRE
 Sample Location :
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1542427
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 16:56
 Date Received : 01/19/24
 Date Analyzed : 01/31/24 23:32
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
71-43-2	Benzene	0.601	0.200	0.064	1.92	0.639	0.205	
56-23-5	Carbon tetrachloride	0.078	0.200	0.069	0.491	1.26	0.432	J
110-82-7	Cyclohexane	0.237	0.200	0.073	0.816	0.688	0.251	
78-87-5	1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292	U
75-27-4	Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462	U
123-91-1	1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194	U
79-01-6	Trichloroethene	1.33	0.200	0.055	7.15	1.07	0.295	
80-62-6	Methyl Methacrylate	ND	0.500	0.226	ND	2.05	0.925	U
1330-20-7	Xylenes, Total	3.42	0.200	0.062	14.9	0.869	0.270	
108-10-1	4-Methyl-2-pentanone	0.578	0.500	0.190	2.37	2.05	0.779	
79-00-5	1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318	U
108-88-3	Toluene	3.75	0.200	0.087	14.1	0.754	0.327	
142-28-9	1,3-Dichloropropane	ND	0.200	0.054	ND	0.924	0.248	U
124-48-1	Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482	U
106-93-4	1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418	U
127-18-4	Tetrachloroethene	63.7	0.200	0.063	432	1.36	0.425	
108-90-7	Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238	U
100-41-4	Ethylbenzene	1.01	0.200	0.058	4.39	0.869	0.250	
540-59-0	1,2-Dichloroethene, Total	ND	0.200	0.060	ND	0.793	0.236	U
179601-23-1	p/m-Xylene	2.50	0.400	0.125	10.9	1.74	0.543	
75-25-2	Bromoform	ND	0.200	0.060	ND	2.07	0.616	U
100-42-5	Styrene	2.06	0.200	0.060	8.77	0.852	0.254	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357	U
95-47-6	o-Xylene	0.919	0.200	0.062	3.99	0.869	0.270	
98-82-8	Isopropylbenzene	0.173	0.200	0.062	0.850	0.983	0.305	J
108-67-8	1,3,5-Trimethylbenzene	0.184	0.200	0.060	0.905	0.983	0.295	J



Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L2403288-07
 Client ID : VS-MRE
 Sample Location :
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1542427
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 16:56
 Date Received : 01/19/24
 Date Analyzed : 01/31/24 23:32
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
95-63-6	1,2,4-Trimethylbenzene	0.776	0.200	0.058	3.81	0.983	0.284	
100-44-7	Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742	U
91-20-3	Naphthalene	0.312	0.200	0.078	1.64	1.05	0.409	

Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L2403288-08
 Client ID : VS-VAC
 Sample Location :
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1542428
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 18:38
 Date Received : 01/19/24
 Date Analyzed : 02/01/24 00:11
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.520	0.200	0.076	2.57	0.989	0.374	
74-87-3	Chloromethane	0.307	0.200	0.058	0.634	0.413	0.119	
75-01-4	Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149	U
106-99-0	1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137	U
74-83-9	Bromomethane	ND	0.200	0.055	ND	0.777	0.212	U
75-00-3	Chloroethane	ND	0.200	0.065	ND	0.528	0.171	U
593-60-2	Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316	U
107-02-8	Acrolein	0.440	0.500	0.149	1.01	1.15	0.342	J
67-64-1	Acetone	19.7	1.00	0.515	46.8	2.38	1.22	
75-69-4	Trichlorofluoromethane	0.310	0.200	0.079	1.74	1.12	0.442	
67-63-0	Isopropanol	19.6	0.500	0.272	48.2	1.23	0.669	
107-13-1	Acrylonitrile	0.270	0.500	0.089	0.586	1.09	0.194	J
75-35-4	1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225	U
75-09-2	Methylene chloride	0.258	0.500	0.125	0.896	1.74	0.434	J
107-05-1	3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269	U
75-15-0	Carbon disulfide	0.587	0.200	0.047	1.83	0.623	0.145	
76-13-1	Freon-113	0.071	0.200	0.051	0.544	1.53	0.388	J
156-60-5	trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299	U
75-34-3	1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230	U
1634-04-4	Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236	U
67-66-3	Chloroform	0.662	0.200	0.055	3.23	0.977	0.270	
109-99-9	Tetrahydrofuran	0.494	0.500	0.117	1.46	1.47	0.345	J
107-06-2	1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319	U
110-54-3	n-Hexane	0.477	0.200	0.074	1.68	0.705	0.262	
71-55-6	1,1,1-Trichloroethane	0.065	0.200	0.061	0.355	1.09	0.335	J



Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L2403288-08
 Client ID : VS-VAC
 Sample Location :
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1542428
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 18:38
 Date Received : 01/19/24
 Date Analyzed : 02/01/24 00:11
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
71-43-2	Benzene	0.499	0.200	0.064	1.59	0.639	0.205	
56-23-5	Carbon tetrachloride	0.074	0.200	0.069	0.465	1.26	0.432	J
110-82-7	Cyclohexane	0.216	0.200	0.073	0.743	0.688	0.251	
78-87-5	1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292	U
75-27-4	Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462	U
123-91-1	1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194	U
79-01-6	Trichloroethene	0.254	0.200	0.055	1.37	1.07	0.295	
80-62-6	Methyl Methacrylate	ND	0.500	0.226	ND	2.05	0.925	U
1330-20-7	Xylenes, Total	0.634	0.200	0.062	2.75	0.869	0.270	J
108-10-1	4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318	U
108-88-3	Toluene	0.978	0.200	0.087	3.69	0.754	0.327	
142-28-9	1,3-Dichloropropane	ND	0.200	0.054	ND	0.924	0.248	U
124-48-1	Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482	U
106-93-4	1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418	U
127-18-4	Tetrachloroethene	4.88	0.200	0.063	33.1	1.36	0.425	
108-90-7	Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238	U
100-41-4	Ethylbenzene	0.158	0.200	0.058	0.686	0.869	0.250	J
540-59-0	1,2-Dichloroethene, Total	ND	0.200	0.060	ND	0.793	0.236	U
179601-23-1	p/m-Xylene	0.460	0.400	0.125	2.00	1.74	0.543	
75-25-2	Bromoform	ND	0.200	0.060	ND	2.07	0.616	U
100-42-5	Styrene	0.314	0.200	0.060	1.34	0.852	0.254	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357	U
95-47-6	o-Xylene	0.174	0.200	0.062	0.756	0.869	0.270	J
98-82-8	Isopropylbenzene	0.065	0.200	0.062	0.320	0.983	0.305	J
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295	U



Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L2403288-08
 Client ID : VS-VAC
 Sample Location :
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1542428
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 18:38
 Date Received : 01/19/24
 Date Analyzed : 02/01/24 00:11
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
95-63-6	1,2,4-Trimethylbenzene	0.157	0.200	0.058	0.772	0.983	0.284	J
100-44-7	Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742	U
91-20-3	Naphthalene	0.099	0.200	0.078	0.519	1.05	0.409	J



Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L2403288-09
 Client ID : IA-WINE
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1542421
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 18:36
 Date Received : 01/19/24
 Date Analyzed : 01/31/24 19:38
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.667	0.200	0.076	3.30	0.989	0.374	
74-87-3	Chloromethane	0.736	0.200	0.058	1.52	0.413	0.119	
75-01-4	Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149	U
106-99-0	1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137	U
74-83-9	Bromomethane	ND	0.200	0.055	ND	0.777	0.212	U
75-00-3	Chloroethane	ND	0.200	0.065	ND	0.528	0.171	U
593-60-2	Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316	U
67-64-1	Acetone	17.7	1.00	0.515	42.0	2.38	1.22	
75-69-4	Trichlorofluoromethane	0.346	0.200	0.079	1.94	1.12	0.442	
67-63-0	Isopropanol	80.1	0.500	0.272	197	1.23	0.669	
75-35-4	1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225	U
75-09-2	Methylene chloride	0.228	0.500	0.125	0.792	1.74	0.434	J
107-05-1	3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269	U
75-15-0	Carbon disulfide	0.048	0.200	0.047	0.149	0.623	0.145	J
76-13-1	Freon-113	0.067	0.200	0.051	0.514	1.53	0.388	J
156-60-5	trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299	U
75-34-3	1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230	U
1634-04-4	Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236	U
67-66-3	Chloroform	ND	0.200	0.055	ND	0.977	0.270	U
109-99-9	Tetrahydrofuran	0.125	0.500	0.117	0.369	1.47	0.345	J
107-06-2	1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319	U
110-54-3	n-Hexane	0.158	0.200	0.074	0.557	0.705	0.262	J
71-55-6	1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335	U
71-43-2	Benzene	0.244	0.200	0.064	0.780	0.639	0.205	
56-23-5	Carbon tetrachloride	0.073	0.200	0.069	0.459	1.26	0.432	J



Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L2403288-09
 Client ID : IA-WINE
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1542421
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 18:36
 Date Received : 01/19/24
 Date Analyzed : 01/31/24 19:38
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	ND	0.200	0.073	ND	0.688	0.251	U
78-87-5	1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292	U
123-91-1	1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194	U
79-01-6	Trichloroethene	ND	0.200	0.055	ND	1.07	0.295	U
80-62-6	Methyl Methacrylate	ND	0.500	0.226	ND	2.05	0.925	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779	U
108-88-3	Toluene	0.251	0.200	0.087	0.946	0.754	0.327	
142-28-9	1,3-Dichloropropane	ND	0.200	0.054	ND	0.924	0.248	U
1330-20-7	Xylenes, Total	ND	0.200	0.062	ND	0.869	0.270	U
127-18-4	Tetrachloroethene	0.065	0.200	0.063	0.441	1.36	0.425	J
108-90-7	Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238	U
100-41-4	Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250	U
179601-23-1	p/m-Xylene	ND	0.400	0.125	ND	1.74	0.543	U
75-25-2	Bromoform	ND	0.200	0.060	ND	2.07	0.616	U
100-42-5	Styrene	ND	0.200	0.060	ND	0.852	0.254	U
95-47-6	o-Xylene	ND	0.200	0.062	ND	0.869	0.270	U
98-82-8	Isopropylbenzene	ND	0.200	0.062	ND	0.983	0.305	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295	U
540-59-0	1,2-Dichloroethene, Total	ND	0.200	0.060	ND	0.793	0.236	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742	U



Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L2403288-10
 Client ID : VS-BOOK
 Sample Location :
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1542429
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 18:56
 Date Received : 01/19/24
 Date Analyzed : 02/01/24 00:49
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.505	0.200	0.076	2.50	0.989	0.374	
74-87-3	Chloromethane	0.131	0.200	0.058	0.271	0.413	0.119	J
75-01-4	Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149	U
106-99-0	1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137	U
74-83-9	Bromomethane	ND	0.200	0.055	ND	0.777	0.212	U
75-00-3	Chloroethane	ND	0.200	0.065	ND	0.528	0.171	U
593-60-2	Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316	U
107-02-8	Acrolein	ND	0.500	0.149	ND	1.15	0.342	U
67-64-1	Acetone	10.5	1.00	0.515	24.9	2.38	1.22	
75-69-4	Trichlorofluoromethane	0.258	0.200	0.079	1.45	1.12	0.442	
67-63-0	Isopropanol	5.13	0.500	0.272	12.6	1.23	0.669	
107-13-1	Acrylonitrile	0.194	0.500	0.089	0.421	1.09	0.194	J
75-35-4	1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225	U
75-09-2	Methylene chloride	0.219	0.500	0.125	0.761	1.74	0.434	J
107-05-1	3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269	U
75-15-0	Carbon disulfide	0.248	0.200	0.047	0.772	0.623	0.145	
76-13-1	Freon-113	0.065	0.200	0.051	0.498	1.53	0.388	J
156-60-5	trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299	U
75-34-3	1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230	U
1634-04-4	Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236	U
67-66-3	Chloroform	0.113	0.200	0.055	0.552	0.977	0.270	J
109-99-9	Tetrahydrofuran	0.327	0.500	0.117	0.964	1.47	0.345	J
107-06-2	1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319	U
110-54-3	n-Hexane	0.283	0.200	0.074	0.997	0.705	0.262	
71-55-6	1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335	U



Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L2403288-10
 Client ID : VS-BOOK
 Sample Location :
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1542429
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 18:56
 Date Received : 01/19/24
 Date Analyzed : 02/01/24 00:49
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
71-43-2	Benzene	0.154	0.200	0.064	0.492	0.639	0.205	J
56-23-5	Carbon tetrachloride	ND	0.200	0.069	ND	1.26	0.432	U
110-82-7	Cyclohexane	0.108	0.200	0.073	0.372	0.688	0.251	J
78-87-5	1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292	U
75-27-4	Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462	U
123-91-1	1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194	U
79-01-6	Trichloroethene	1.19	0.200	0.055	6.40	1.07	0.295	
80-62-6	Methyl Methacrylate	ND	0.500	0.226	ND	2.05	0.925	U
1330-20-7	Xylenes, Total	0.270	0.200	0.062	1.17	0.869	0.270	J
108-10-1	4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318	U
108-88-3	Toluene	0.598	0.200	0.087	2.25	0.754	0.327	
142-28-9	1,3-Dichloropropane	ND	0.200	0.054	ND	0.924	0.248	U
124-48-1	Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482	U
106-93-4	1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418	U
127-18-4	Tetrachloroethene	2.47	0.200	0.063	16.7	1.36	0.425	
108-90-7	Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238	U
100-41-4	Ethylbenzene	0.078	0.200	0.058	0.339	0.869	0.250	J
540-59-0	1,2-Dichloroethene, Total	ND	0.200	0.060	ND	0.793	0.236	U
179601-23-1	p/m-Xylene	0.199	0.400	0.125	0.864	1.74	0.543	J
75-25-2	Bromoform	ND	0.200	0.060	ND	2.07	0.616	U
100-42-5	Styrene	0.149	0.200	0.060	0.634	0.852	0.254	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357	U
95-47-6	o-Xylene	0.071	0.200	0.062	0.308	0.869	0.270	J
98-82-8	Isopropylbenzene	ND	0.200	0.062	ND	0.983	0.305	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295	U



Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L2403288-10
 Client ID : VS-BOOK
 Sample Location :
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1542429
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 18:56
 Date Received : 01/19/24
 Date Analyzed : 02/01/24 00:49
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284	U
100-44-7	Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742	U
91-20-3	Naphthalene	ND	0.200	0.078	ND	1.05	0.409	U

Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L2403288-11
 Client ID : IA-YOGURT
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1542422
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 18:58
 Date Received : 01/19/24
 Date Analyzed : 01/31/24 20:17
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.495	0.200	0.076	2.45	0.989	0.374	
74-87-3	Chloromethane	0.971	0.200	0.058	2.01	0.413	0.119	
75-01-4	Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149	U
106-99-0	1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137	U
74-83-9	Bromomethane	ND	0.200	0.055	ND	0.777	0.212	U
75-00-3	Chloroethane	ND	0.200	0.065	ND	0.528	0.171	U
593-60-2	Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316	U
67-64-1	Acetone	10.8	1.00	0.515	25.7	2.38	1.22	
75-69-4	Trichlorofluoromethane	0.267	0.200	0.079	1.50	1.12	0.442	
67-63-0	Isopropanol	54.9	0.500	0.272	135	1.23	0.669	
75-35-4	1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225	U
75-09-2	Methylene chloride	0.289	0.500	0.125	1.00	1.74	0.434	J
107-05-1	3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269	U
75-15-0	Carbon disulfide	0.073	0.200	0.047	0.227	0.623	0.145	J
76-13-1	Freon-113	0.069	0.200	0.051	0.529	1.53	0.388	J
156-60-5	trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299	U
75-34-3	1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230	U
1634-04-4	Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236	U
67-66-3	Chloroform	0.679	0.200	0.055	3.32	0.977	0.270	
109-99-9	Tetrahydrofuran	0.175	0.500	0.117	0.516	1.47	0.345	J
107-06-2	1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319	U
110-54-3	n-Hexane	0.163	0.200	0.074	0.574	0.705	0.262	J
71-55-6	1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335	U
71-43-2	Benzene	0.290	0.200	0.064	0.926	0.639	0.205	
56-23-5	Carbon tetrachloride	0.074	0.200	0.069	0.465	1.26	0.432	J



Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L2403288-11
 Client ID : IA-YOGURT
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1542422
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 18:58
 Date Received : 01/19/24
 Date Analyzed : 01/31/24 20:17
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	ND	0.200	0.073	ND	0.688	0.251	U
78-87-5	1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292	U
123-91-1	1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194	U
79-01-6	Trichloroethene	ND	0.200	0.055	ND	1.07	0.295	U
80-62-6	Methyl Methacrylate	ND	0.500	0.226	ND	2.05	0.925	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779	U
108-88-3	Toluene	0.278	0.200	0.087	1.05	0.754	0.327	
142-28-9	1,3-Dichloropropane	ND	0.200	0.054	ND	0.924	0.248	U
1330-20-7	Xylenes, Total	ND	0.200	0.062	ND	0.869	0.270	U
127-18-4	Tetrachloroethene	0.068	0.200	0.063	0.461	1.36	0.425	J
108-90-7	Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238	U
100-41-4	Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250	U
179601-23-1	p/m-Xylene	ND	0.400	0.125	ND	1.74	0.543	U
75-25-2	Bromoform	ND	0.200	0.060	ND	2.07	0.616	U
100-42-5	Styrene	0.124	0.200	0.060	0.528	0.852	0.254	J
95-47-6	o-Xylene	ND	0.200	0.062	ND	0.869	0.270	U
98-82-8	Isopropylbenzene	ND	0.200	0.062	ND	0.983	0.305	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295	U
540-59-0	1,2-Dichloroethene, Total	ND	0.200	0.060	ND	0.793	0.236	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742	U



Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : WG1880230-4
 Client ID : WG1880230-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1542416
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 01/31/24 14:23
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	ND	0.200	0.076	ND	0.989	0.374	U
74-87-3	Chloromethane	ND	0.200	0.058	ND	0.413	0.119	U
75-01-4	Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149	U
106-99-0	1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137	U
74-83-9	Bromomethane	ND	0.200	0.055	ND	0.777	0.212	U
75-00-3	Chloroethane	ND	0.200	0.065	ND	0.528	0.171	U
593-60-2	Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316	U
107-02-8	Acrolein	ND	0.500	0.149	ND	1.15	0.342	U
67-64-1	Acetone	ND	1.00	0.515	ND	2.38	1.22	U
75-69-4	Trichlorofluoromethane	ND	0.200	0.079	ND	1.12	0.442	U
67-63-0	Isopropanol	ND	0.500	0.272	ND	1.23	0.669	U
107-13-1	Acrylonitrile	ND	0.500	0.089	ND	1.09	0.194	U
75-35-4	1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225	U
75-09-2	Methylene chloride	ND	0.500	0.125	ND	1.74	0.434	U
107-05-1	3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269	U
75-15-0	Carbon disulfide	ND	0.200	0.047	ND	0.623	0.145	U
76-13-1	Freon-113	ND	0.200	0.051	ND	1.53	0.388	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299	U
75-34-3	1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230	U
1634-04-4	Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162	U
1330-20-7	Xylenes, Total	ND	0.200	0.062	ND	0.869	0.270	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236	U
67-66-3	Chloroform	ND	0.200	0.055	ND	0.977	0.270	U
109-99-9	Tetrahydrofuran	ND	0.500	0.117	ND	1.47	0.345	U
107-06-2	1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319	U
110-54-3	n-Hexane	ND	0.200	0.074	ND	0.705	0.262	U



Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : WG1880230-4
 Client ID : WG1880230-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1542416
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 01/31/24 14:23
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
540-59-0	1,2-Dichloroethene, Total	ND	0.200	0.060	ND	0.793	0.236	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335	U
71-43-2	Benzene	ND	0.200	0.064	ND	0.639	0.205	U
56-23-5	Carbon tetrachloride	ND	0.200	0.069	ND	1.26	0.432	U
110-82-7	Cyclohexane	ND	0.200	0.073	ND	0.688	0.251	U
78-87-5	1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292	U
75-27-4	Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462	U
123-91-1	1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194	U
79-01-6	Trichloroethene	ND	0.200	0.055	ND	1.07	0.295	U
80-62-6	Methyl Methacrylate	ND	0.500	0.226	ND	2.05	0.925	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318	U
108-88-3	Toluene	ND	0.200	0.087	ND	0.754	0.327	U
142-28-9	1,3-Dichloropropane	ND	0.200	0.054	ND	0.924	0.248	U
124-48-1	Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482	U
106-93-4	1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418	U
127-18-4	Tetrachloroethene	ND	0.200	0.063	ND	1.36	0.425	U
108-90-7	Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238	U
100-41-4	Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250	U
179601-23-1	p/m-Xylene	ND	0.400	0.125	ND	1.74	0.543	U
75-25-2	Bromoform	ND	0.200	0.060	ND	2.07	0.616	U
100-42-5	Styrene	ND	0.200	0.060	ND	0.852	0.254	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357	U
95-47-6	o-Xylene	ND	0.200	0.062	ND	0.869	0.270	U
98-82-8	Isopropylbenzene	ND	0.200	0.062	ND	0.983	0.305	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295	U



Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : WG1880230-4
 Client ID : WG1880230-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1542416
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 01/31/24 14:23
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284	U
100-44-7	Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742	U
91-20-3	Naphthalene	ND	0.200	0.078	ND	1.05	0.409	U

Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : WG1880230-5
 Client ID : VS-DCFDUP
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1542426
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 16:52
 Date Received : 01/19/24
 Date Analyzed : 01/31/24 22:53
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.539	0.200	0.076	2.67	0.989	.2	
74-87-3	Chloromethane	0.265	0.200	0.058	0.547	0.413	.2	
75-01-4	Vinyl chloride	ND	0.200	0.058	ND	0.511	.2	U
106-99-0	1,3-Butadiene	ND	0.200	0.062	ND	0.442	.2	U
74-83-9	Bromomethane	ND	0.200	0.055	ND	0.777	.2	U
75-00-3	Chloroethane	ND	0.200	0.065	ND	0.528	.2	U
593-60-2	Vinyl bromide	ND	0.200	0.072	ND	0.874	.2	U
107-02-8	Acrolein	ND	0.500	0.149	ND	1.15	.5	U
67-64-1	Acetone	29.1	1.00	0.515	69.1	2.38	1	
75-69-4	Trichlorofluoromethane	0.527	0.200	0.079	2.96	1.12	.2	
67-63-0	Isopropanol	32.6	0.500	0.272	80.1	1.23	.5	
107-13-1	Acrylonitrile	0.373	0.500	0.089	0.809	1.09	.5	J
75-35-4	1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	.2	U
75-09-2	Methylene chloride	1.65	0.500	0.125	5.73	1.74	.5	
107-05-1	3-Chloropropene	ND	0.200	0.086	ND	0.626	.2	U
75-15-0	Carbon disulfide	0.326	0.200	0.047	1.02	0.623	.2	
76-13-1	Freon-113	0.059	0.200	0.051	0.452	1.53	.2	J
156-60-5	trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	.2	U
75-34-3	1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	.2	U
1634-04-4	Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	.2	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	.2	U
67-66-3	Chloroform	ND	0.200	0.055	ND	0.977	.2	U
109-99-9	Tetrahydrofuran	0.672	0.500	0.117	1.98	1.47	.5	
107-06-2	1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	.2	U
110-54-3	n-Hexane	0.601	0.200	0.074	2.12	0.705	.2	
71-55-6	1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	.2	U



Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : WG1880230-5
 Client ID : VS-DCFDUP
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1542426
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 16:52
 Date Received : 01/19/24
 Date Analyzed : 01/31/24 22:53
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
71-43-2	Benzene	0.281	0.200	0.064	0.898	0.639	.2	
56-23-5	Carbon tetrachloride	ND	0.200	0.069	ND	1.26	.2	U
110-82-7	Cyclohexane	0.118	0.200	0.073	0.406	0.688	.2	J
78-87-5	1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	.2	U
75-27-4	Bromodichloromethane	ND	0.200	0.069	ND	1.34	.2	U
123-91-1	1,4-Dioxane	ND	0.200	0.054	ND	0.721	.2	U
79-01-6	Trichloroethene	0.180	0.200	0.055	0.967	1.07	.2	J
80-62-6	Methyl Methacrylate	ND	0.500	0.226	ND	2.05	.5	U
1330-20-7	Xylenes, Total	0.973	0.200	0.062	4.23	0.869	.2	
108-10-1	4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	.5	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	.2	U
108-88-3	Toluene	1.19	0.200	0.087	4.48	0.754	.2	
142-28-9	1,3-Dichloropropane	ND	0.200	0.054	ND	0.924	.2	U
124-48-1	Dibromochloromethane	ND	0.200	0.057	ND	1.70	.2	U
106-93-4	1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	.2	U
127-18-4	Tetrachloroethene	0.488	0.200	0.063	3.31	1.36	.2	
108-90-7	Chlorobenzene	ND	0.200	0.052	ND	0.921	.2	U
100-41-4	Ethylbenzene	0.269	0.200	0.058	1.17	0.869	.2	
540-59-0	1,2-Dichloroethene, Total	ND	0.200	0.060	ND	0.793	.2	U
179601-23-1	p/m-Xylene	0.723	0.400	0.125	3.14	1.74	.4	
75-25-2	Bromoform	ND	0.200	0.060	ND	2.07	.2	U
100-42-5	Styrene	0.494	0.200	0.060	2.10	0.852	.2	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	.2	U
95-47-6	o-Xylene	0.250	0.200	0.062	1.09	0.869	.2	
98-82-8	Isopropylbenzene	ND	0.200	0.062	ND	0.983	.2	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	.2	U



Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : WG1880230-5
 Client ID : VS-DCFDUP
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1542426
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 16:52
 Date Received : 01/19/24
 Date Analyzed : 01/31/24 22:53
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
95-63-6	1,2,4-Trimethylbenzene	0.193	0.200	0.058	0.949	0.983	.2	J
100-44-7	Benzyl chloride	ND	0.200	0.094	ND	1.04	.2	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	.2	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	.2	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	.2	U
91-20-3	Naphthalene	ND	0.200	0.078	ND	1.05	.2	U



Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : WG1880708-4
 Client ID : WG1880708-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1738300
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 02/01/24 18:07
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB17
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	ND	0.200	0.076	ND	0.989	0.374	U
74-87-3	Chloromethane	ND	0.200	0.058	ND	0.413	0.119	U
75-01-4	Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149	U
106-99-0	1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137	U
74-83-9	Bromomethane	ND	0.200	0.055	ND	0.777	0.212	U
75-00-3	Chloroethane	ND	0.200	0.065	ND	0.528	0.171	U
593-60-2	Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316	U
107-02-8	Acrolein	ND	0.500	0.149	ND	1.15	0.342	U
67-64-1	Acetone	ND	1.00	0.515	ND	2.38	1.22	U
75-69-4	Trichlorofluoromethane	ND	0.200	0.079	ND	1.12	0.442	U
67-63-0	Isopropanol	ND	0.500	0.272	ND	1.23	0.669	U
107-13-1	Acrylonitrile	ND	0.500	0.089	ND	1.09	0.194	U
75-35-4	1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225	U
75-09-2	Methylene chloride	ND	0.500	0.125	ND	1.74	0.434	U
107-05-1	3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269	U
75-15-0	Carbon disulfide	ND	0.200	0.047	ND	0.623	0.145	U
76-13-1	Freon-113	ND	0.200	0.051	ND	1.53	0.388	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299	U
75-34-3	1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230	U
1634-04-4	Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162	U
1330-20-7	Xylenes, Total	ND	0.200	0.062	ND	0.869	0.270	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236	U
67-66-3	Chloroform	ND	0.200	0.055	ND	0.977	0.270	U
109-99-9	Tetrahydrofuran	ND	0.500	0.117	ND	1.47	0.345	U
107-06-2	1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319	U
110-54-3	n-Hexane	ND	0.200	0.074	ND	0.705	0.262	U



Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : WG1880708-4
 Client ID : WG1880708-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1738300
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 02/01/24 18:07
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB17
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
540-59-0	1,2-Dichloroethene, Total	ND	0.200	0.060	ND	0.793	0.236	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335	U
71-43-2	Benzene	ND	0.200	0.064	ND	0.639	0.205	U
56-23-5	Carbon tetrachloride	ND	0.200	0.069	ND	1.26	0.432	U
110-82-7	Cyclohexane	ND	0.200	0.073	ND	0.688	0.251	U
78-87-5	1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292	U
75-27-4	Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462	U
123-91-1	1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194	U
79-01-6	Trichloroethene	ND	0.200	0.055	ND	1.07	0.295	U
80-62-6	Methyl Methacrylate	ND	0.500	0.226	ND	2.05	0.925	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318	U
108-88-3	Toluene	ND	0.200	0.087	ND	0.754	0.327	U
142-28-9	1,3-Dichloropropane	ND	0.200	0.054	ND	0.924	0.248	U
124-48-1	Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482	U
106-93-4	1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418	U
127-18-4	Tetrachloroethene	ND	0.200	0.063	ND	1.36	0.425	U
108-90-7	Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238	U
100-41-4	Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250	U
179601-23-1	p/m-Xylene	ND	0.400	0.125	ND	1.74	0.543	U
75-25-2	Bromoform	ND	0.200	0.060	ND	2.07	0.616	U
100-42-5	Styrene	ND	0.200	0.060	ND	0.852	0.254	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357	U
95-47-6	o-Xylene	ND	0.200	0.062	ND	0.869	0.270	U
98-82-8	Isopropylbenzene	ND	0.200	0.062	ND	0.983	0.305	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295	U



Results Summary

Form 1

Volatile Organics in Air

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : WG1880708-4
 Client ID : WG1880708-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1738300
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 02/01/24 18:07
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB17
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284	U
100-44-7	Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742	U
91-20-3	Naphthalene	ND	0.200	0.078	ND	1.05	0.409	U



Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542418.D
 Acq On : 31 Jan 2024 5:43 PM
 Operator : AIRLAB15:JMB
 Sample : L2403288-02,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 13:33:31 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131T\r1542413.D
 Sub List : PADEP-T015-IA+_CIS-1,2 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.125	49	357447	10.000	ppbV	0.05
Standard Area = 375210			Recovery =		95.27%	
43) 1,4-difluorobenzene	11.340	114	921998	10.000	ppbV	0.05
Standard Area = 971110			Recovery =		94.94%	
67) chlorobenzene-D5	16.050	54	178709	10.000	ppbV #	0.04
Standard Area = 187857			Recovery =		95.13%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	4.030	85	20304	0.499	ppbV	100
6) chloromethane	4.198	50	10682	0.698	ppbV	97
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	4.570	54	552	0.037	ppbV #	74
13) bromomethane	4.864		0	N.D.		
14) chloroethane	5.044		0	N.D.		
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.707	43	145588M6	7.216	ppbV	
21) trichlorofluoromethane	5.887	101	8250	0.271	ppbV	98
22) isopropyl alcohol	6.013	45	17867	0.703	ppbV	97
26) 1,1-dichloroethene	0.000		0	N.D.		
28) methylene chloride	6.726	49	5435	0.197	ppbV	85
29) 3-chloropropene	6.768		0	N.D.		
30) carbon disulfide	7.032	76	3126	0.048	ppbV #	1
31) Freon 113	7.020	101	2688	0.067	ppbV	93
32) trans-1,2-dichloroethene	7.775		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	8.067		0	N.D.		
37) cis-1,2-dichloroethene	0.000		0	N.D.		
39) chloroform	9.283	83	1445	0.033	ppbV #	88
40) Tetrahydrofuran	9.758	42	3634	0.122	ppbV	90
42) 1,2-dichloroethane	10.117		0	N.D.		
44) hexane	9.192	57	7234	0.179	ppbV #	24
48) 1,1,1-trichloroethane	0.000		0	N.D.		
50) benzene	10.927	78	16960	0.227	ppbV	94
52) carbon tetrachloride	11.093	117	2073	0.075	ppbV #	94
53) cyclohexane	11.247	56	1590	0.036	ppbV #	85
56) 1,2-dichloropropane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542418.D
 Acq On : 31 Jan 2024 5:43 PM
 Operator : AIRLAB15:JMB
 Sample : L2403288-02,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 13:33:31 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131T\r1542413.D
 Sub List : PADEP-T015-IA+_CIS-1,2 - .

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
58)	1,4-dioxane	0.000		0		N.D.	
59)	trichloroethene	12.147		0		N.D.	
61)	methyl methacrylate	12.420		0		N.D.	
64)	4-methyl-2-pentanone	13.275		0		N.D.	
68)	toluene	14.300	91	17188	0.168	ppbV	97
71)	1,3-dichloropropane	14.183		0		N.D.	
78)	tetrachloroethene	15.442	166	2793	0.068	ppbV #	90
80)	chlorobenzene	0.000		0		N.D.	
81)	ethylbenzene	16.442		0		N.D.	
83)	m+p-xylene	16.592	91	8264	0.080	ppbV	99
84)	bromoform	0.000		0		N.D.	
85)	styrene	16.933		0		N.D.	
87)	o-xylene	17.025	91	3267	0.032	ppbV	92
91)	isopropylbenzene	17.533		0		N.D.	
97)	1,3,5-trimethylbenzene	18.158		0		N.D.	
99)	1,2,4-trimethylbenzene	18.508		0		N.D.	
103)	1,4-dichlorobenzene	18.642		0		N.D.	
107)	1,2-dichlorobenzene	18.983		0		N.D.	
115)	1,2,4-trichlorobenzene	20.492		0		N.D.	

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

Sub List : PADEP-T015-IA+_CIS-1,2 - .\2024\01\0131T\r1542413.D

Data Path : 0:\Forensics\Data\AirLab15\2024\01\0131T\

Data File : r1542418.D

Acq On : 31 Jan 2024 5:43 PM

Operator : AIRLAB15:JMB

Sample : L2403288-02,3,250,250

Misc : WG1880230,ICAL20574

ALS Vial : 0 Sample Multiplier: 1

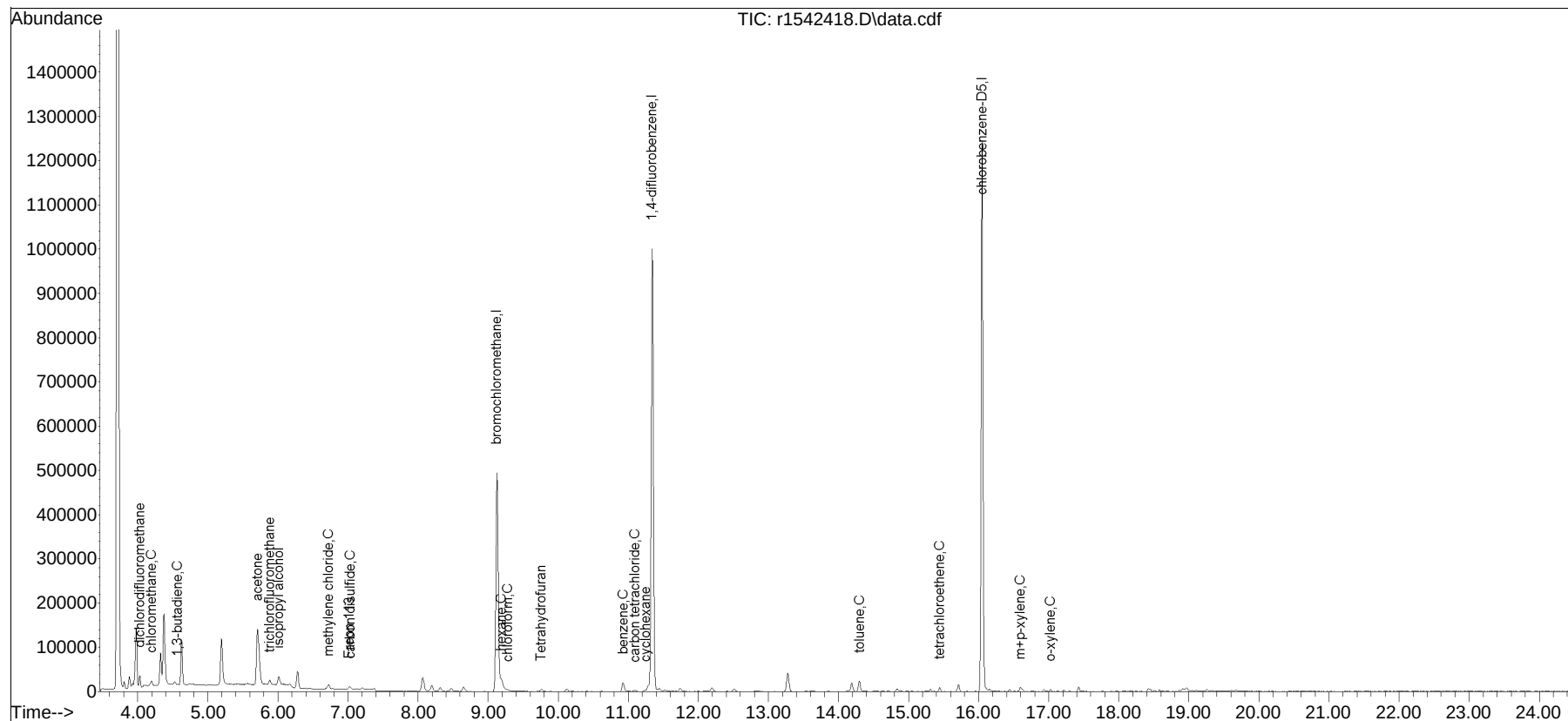
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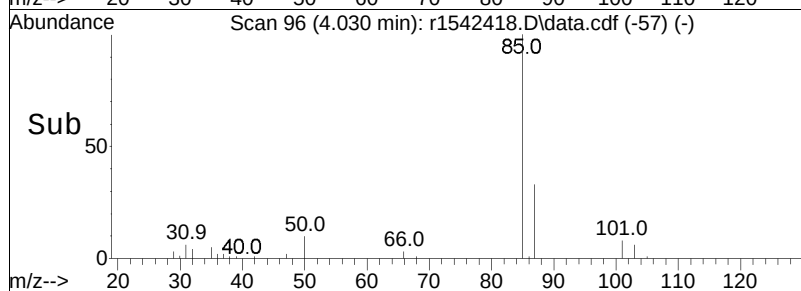
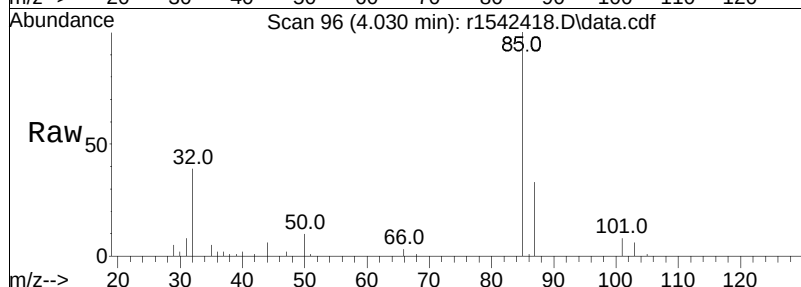
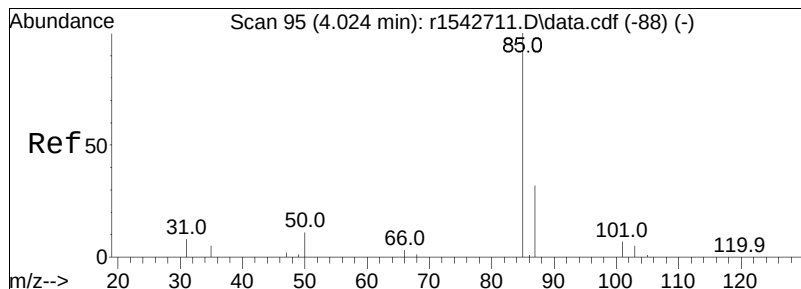
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Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

QLast Update : Tue Nov 21 15:43:21 2023

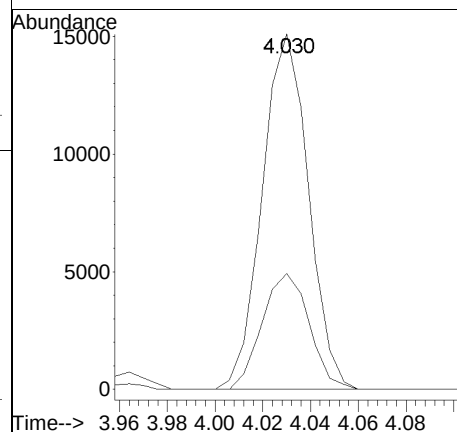
Response via : Initial Calibration

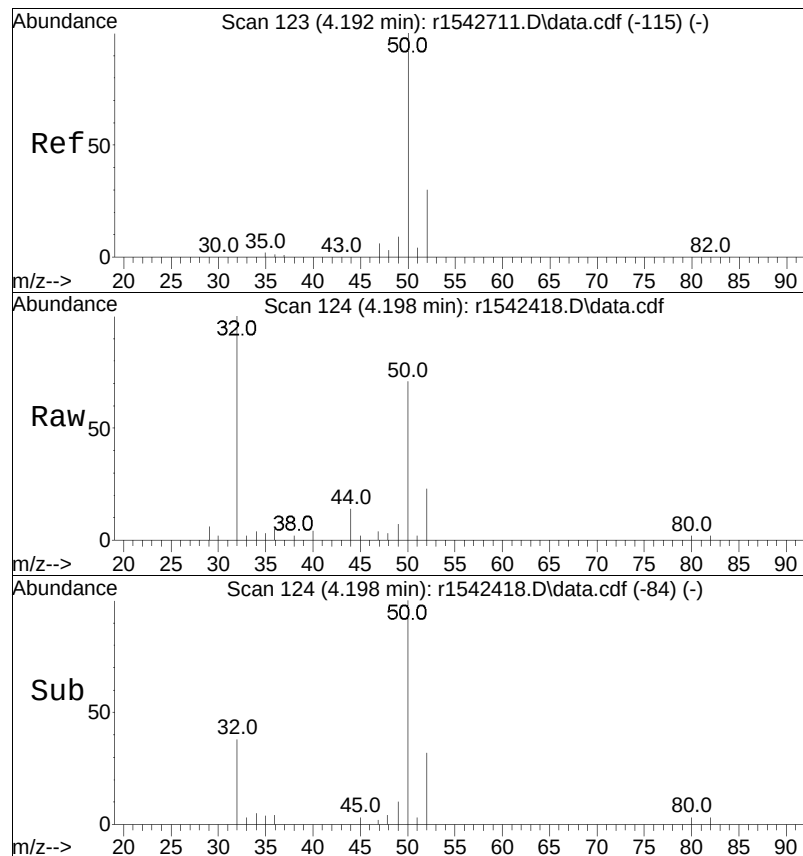




#5
dichlorodifluoromethane
Concen: 0.50 ppbV
RT: 4.030 min Scan# 96
Delta R.T. 0.036 min
Lab File: r1542418.D
Acq: 31 Jan 2024 5:43 PM

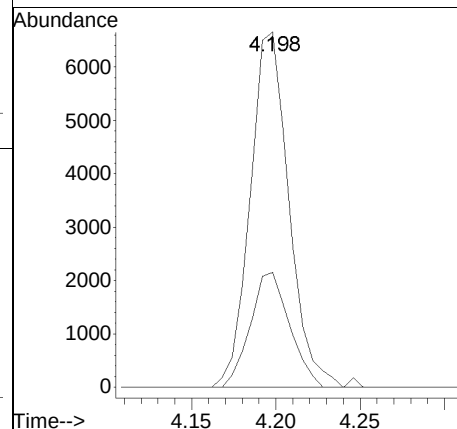
Tgt Ion	85	87	Ratio	100	Resp	20304	Lower	Upper
	85	87	32.6	26.1	39.1			

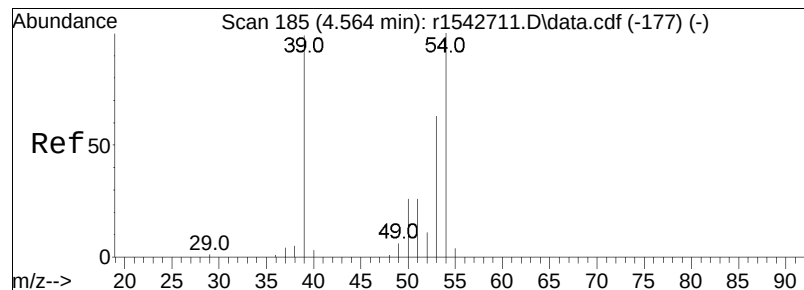




#6
 chloromethane
 Concen: 0.70 ppbV
 RT: 4.198 min Scan# 124
 Delta R.T. 0.042 min
 Lab File: r1542418.D
 Acq: 31 Jan 2024 5:43 PM

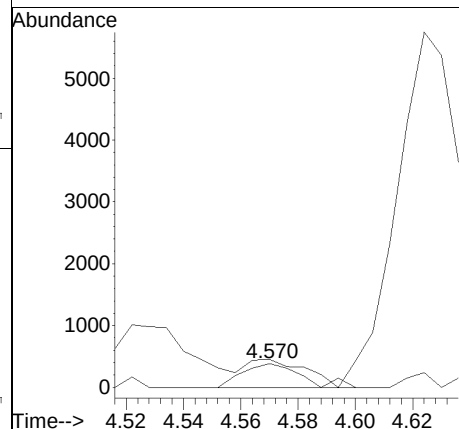
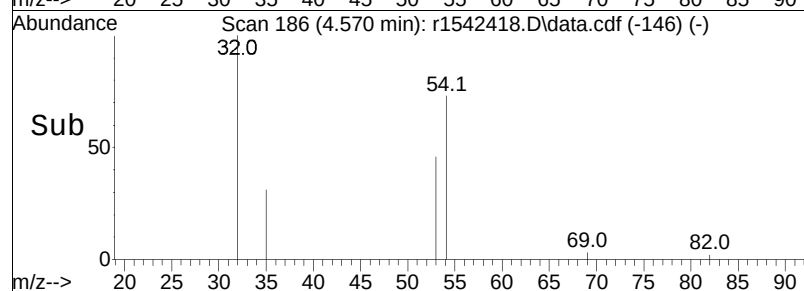
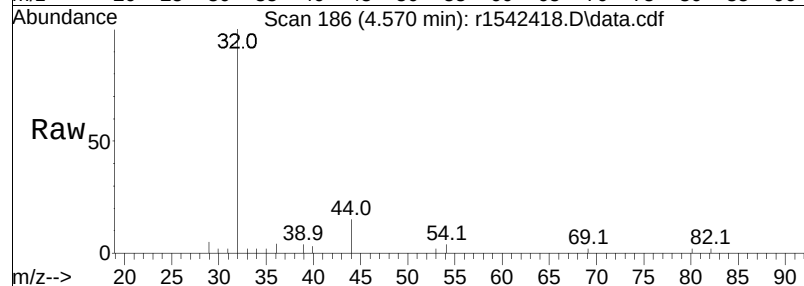
Tgt	Ion: 50	Resp:	10682
Ion	Ratio	Lower	Upper
50	100		
52	32.4	27.4	41.2

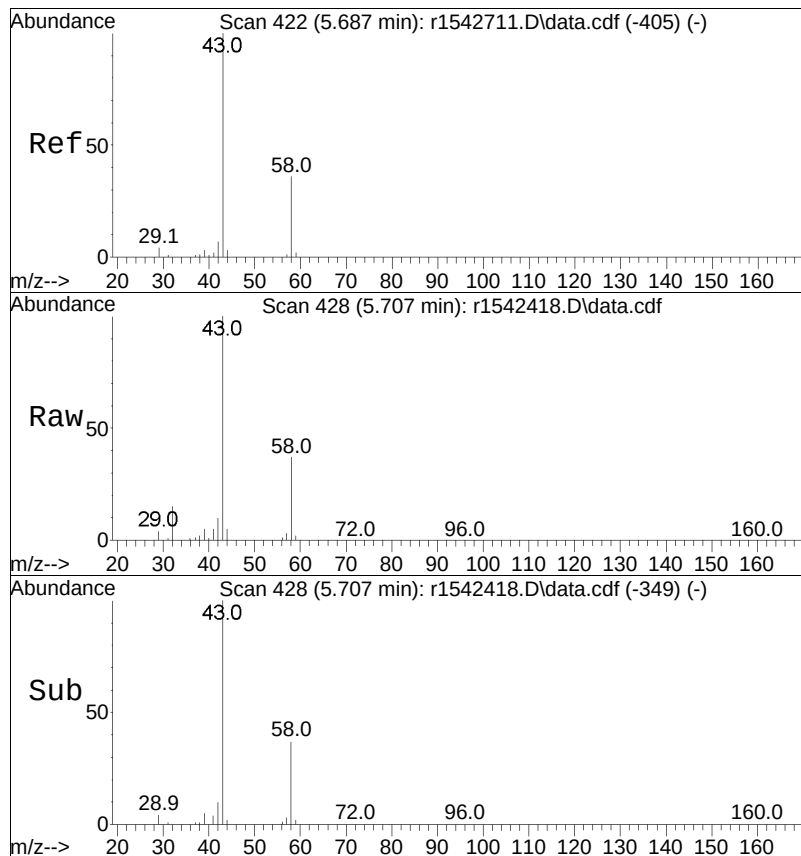




#10
 1,3-butadiene
 Concen: 0.04 ppbV
 RT: 4.570 min Scan# 186
 Delta R.T. 0.042 min
 Lab File: r1542418.D
 Acq: 31 Jan 2024 5:43 PM

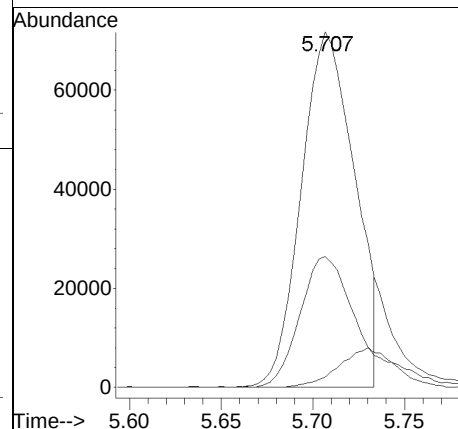
Tgt Ion: 54 Resp: 552
 Ion Ratio Lower Upper
 54 100
 39 117.6 73.8 110.8#

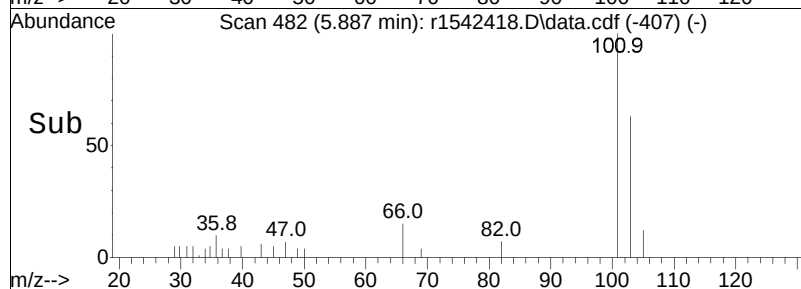
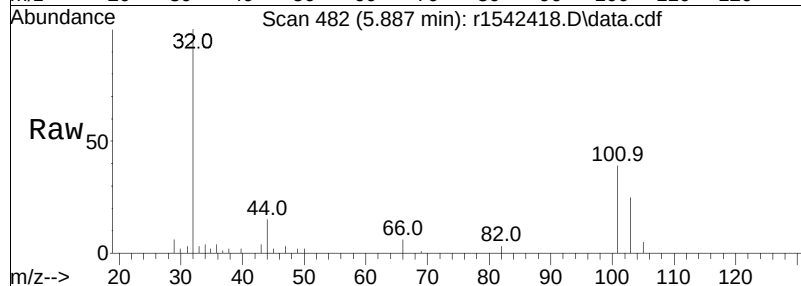
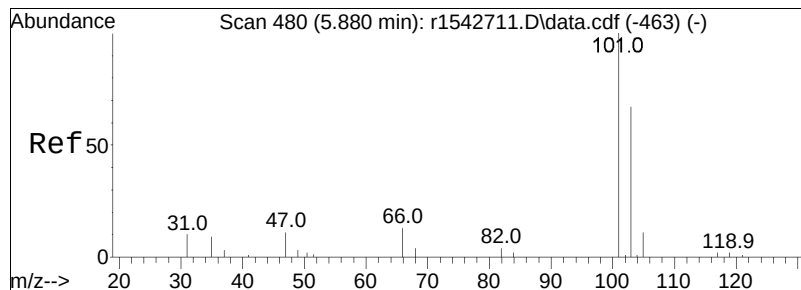




#19
 acetone
 Concen: 7.22 ppbV m
 RT: 5.707 min Scan# 428
 Delta R.T. 0.063 min
 Lab File: r1542418.D
 Acq: 31 Jan 2024 5:43 PM

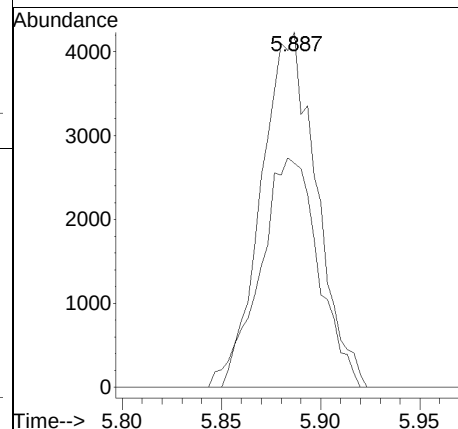
Tgt	Ion: 43	Resp: 145588
Ion	Ratio	Lower Upper
43	100	
58	36.9	39.0 58.4#
57	2.9	0.9 1.3#

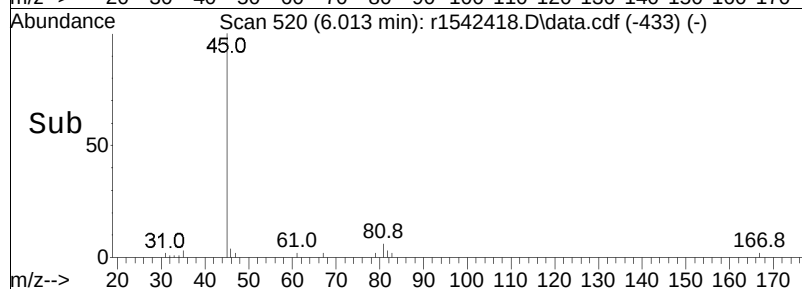
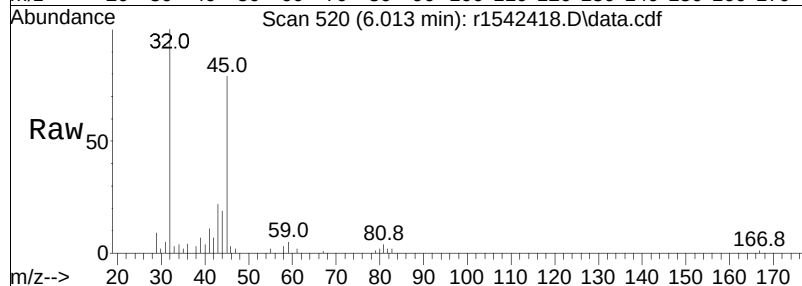
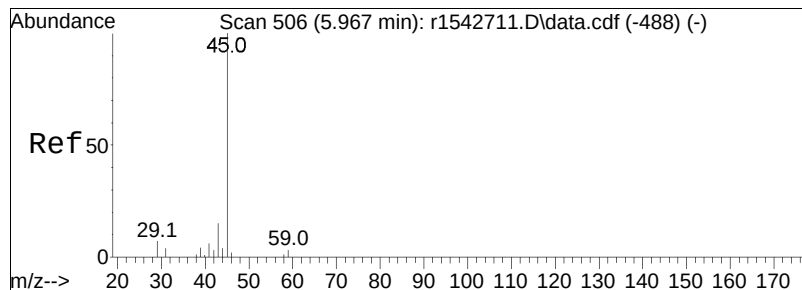




#21
 trichlorofluoromethane
 Concen: 0.27 ppbV
 RT: 5.887 min Scan# 482
 Delta R.T. 0.050 min
 Lab File: r1542418.D
 Acq: 31 Jan 2024 5:43 PM

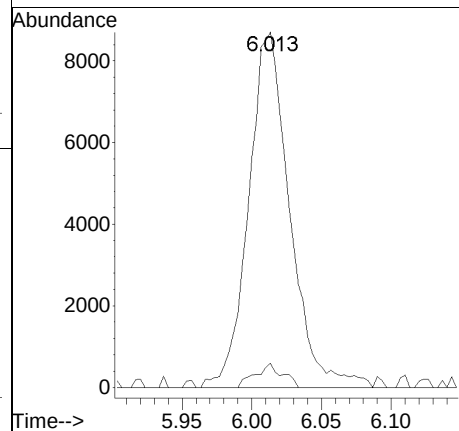
Tgt Ion	Ratio	Lower	Upper
101	100		
103	63.1	49.4	74.0

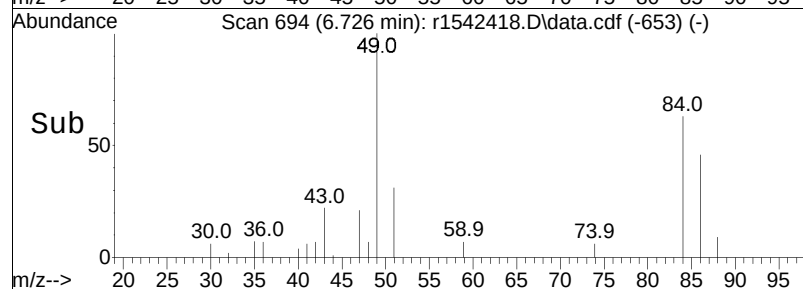
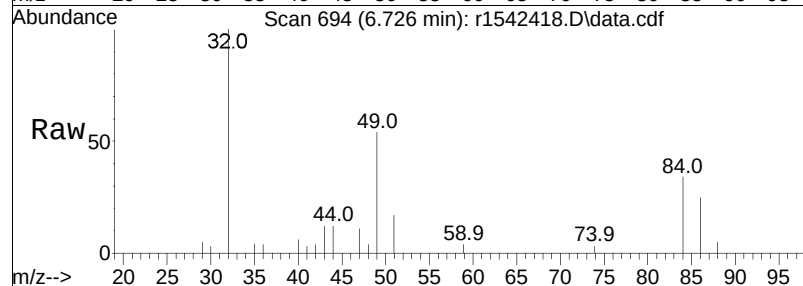
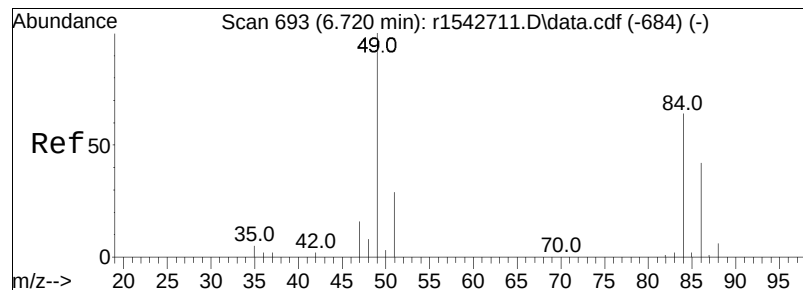




#22
isopropyl alcohol
Concen: 0.70 ppbV
RT: 6.013 min Scan# 520
Delta R.T. 0.090 min
Lab File: r1542418.D
Acq: 31 Jan 2024 5:43 PM

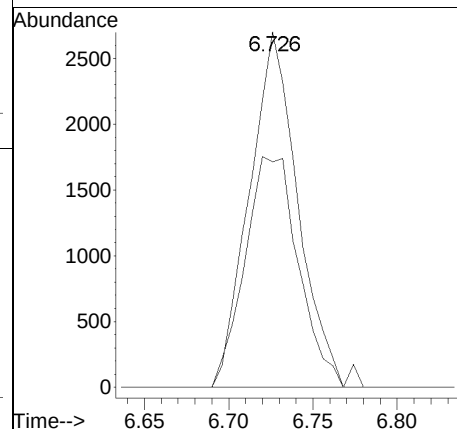
Tgt	Ion	Ratio	Lower	Upper
45	100			
59	6.8	4.6	6.8	

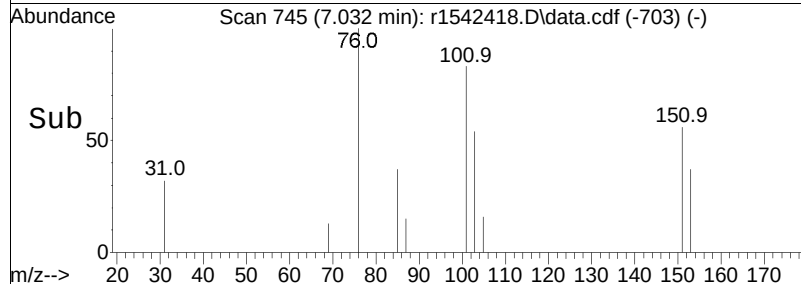
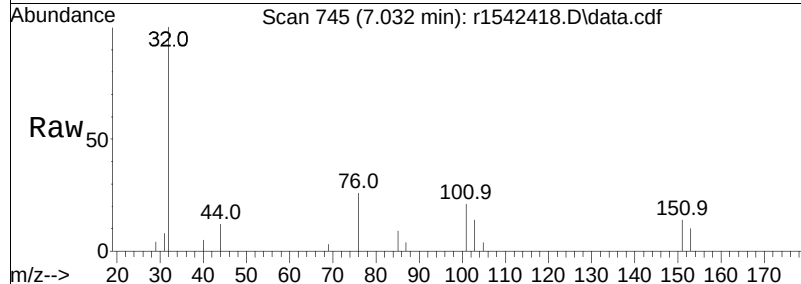
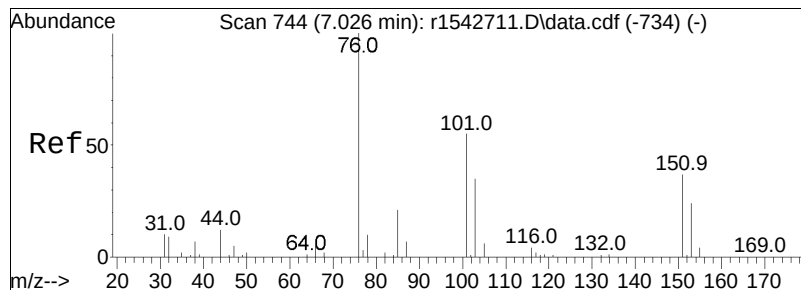




#28
 methylene chloride
 Concen: 0.20 ppbV
 RT: 6.726 min Scan# 694
 Delta R.T. 0.048 min
 Lab File: r1542418.D
 Acq: 31 Jan 2024 5:43 PM

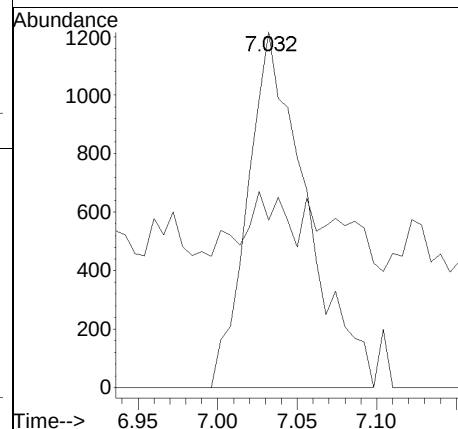
Tgt Ion	Ratio	Lower	Upper
49	100		
84	63.5	61.2	91.8

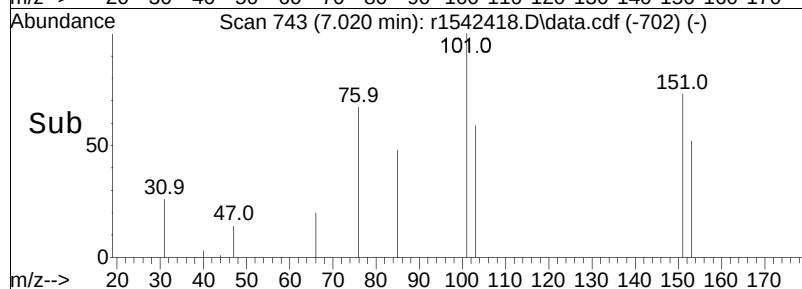
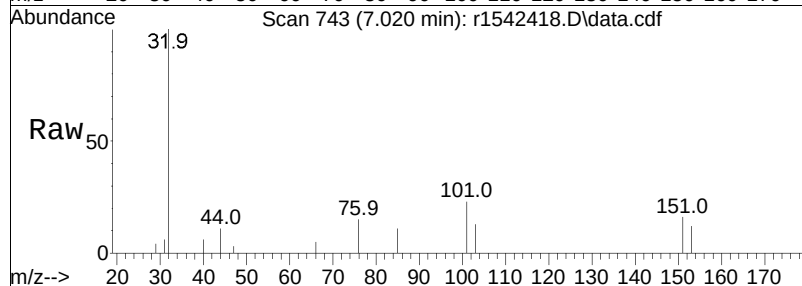
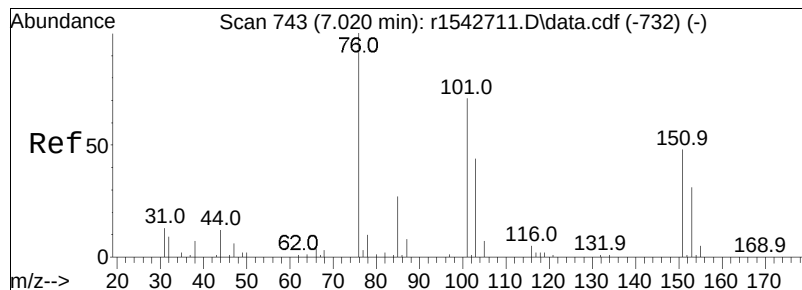




#30
 carbon disulfide
 Concen: 0.05 ppbV
 RT: 7.032 min Scan# 745
 Delta R.T. 0.054 min
 Lab File: r1542418.D
 Acq: 31 Jan 2024 5:43 PM

Tgt Ion	Ratio	Lower	Upper
76	100		
44	47.0	7.8	11.6#





#31

Freon 113

Concen: 0.07 ppbV

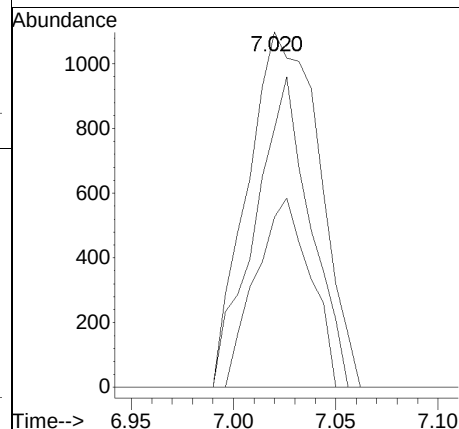
RT: 7.020 min Scan# 743

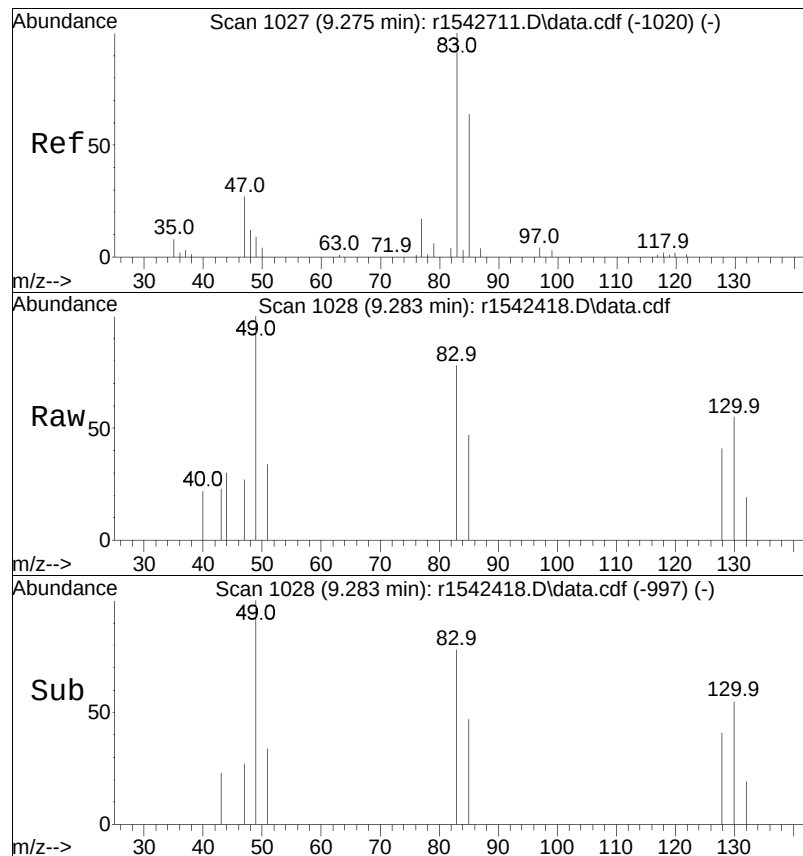
Delta R.T. 0.048 min

Lab File: r1542418.D

Acq: 31 Jan 2024 5:43 PM

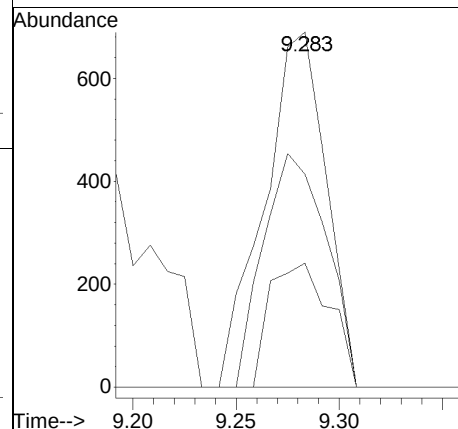
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	2688		
85	47.9		35.3	52.9
151	72.8		63.8	95.8

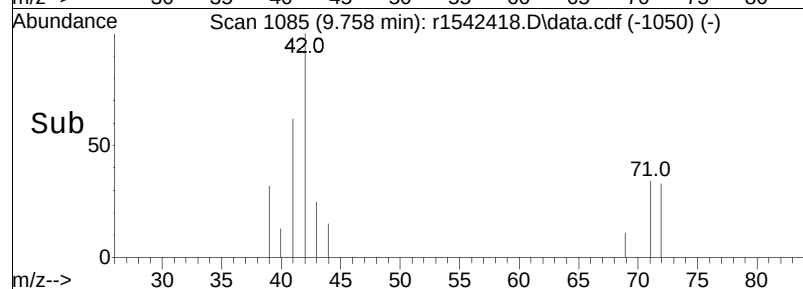
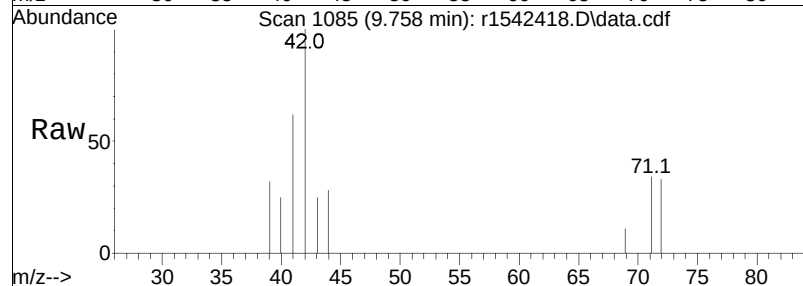
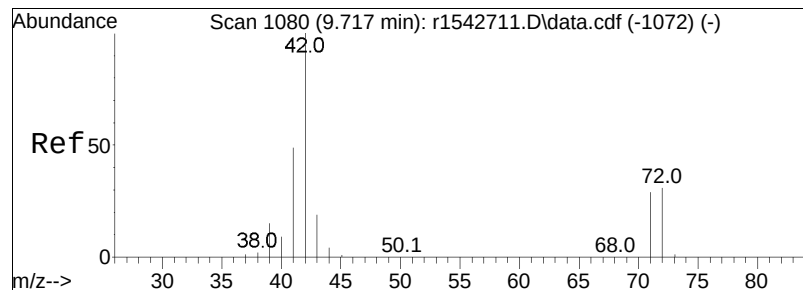




#39
chloroform
Concen: 0.03 ppbV
RT: 9.283 min Scan# 1028
Delta R.T. 0.058 min
Lab File: r1542418.D
Acq: 31 Jan 2024 5:43 PM

Tgt	Ion	Resp	Lower	Upper
83	100			
85	60.0	51.5	77.3	
47	34.9	15.9	23.9	





#40

Tetrahydrofuran

Concen: 0.12 ppbV

RT: 9.758 min Scan# 1085

Delta R.T. 0.092 min

Lab File: r1542418.D

Acq: 31 Jan 2024 5:43 PM

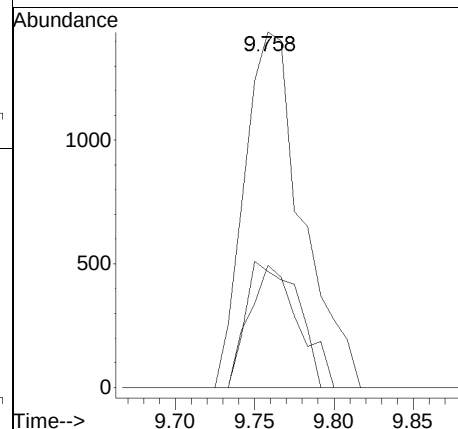
Tgt Ion: 42 Resp: 3634

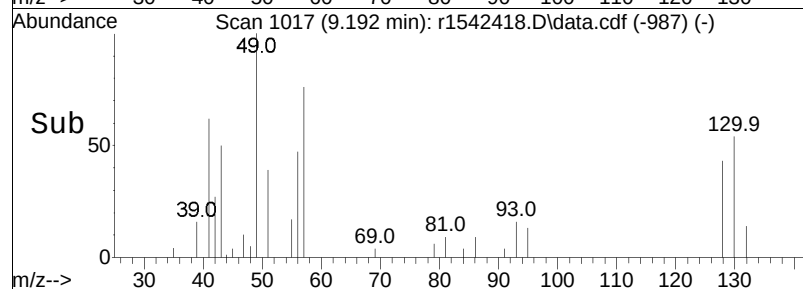
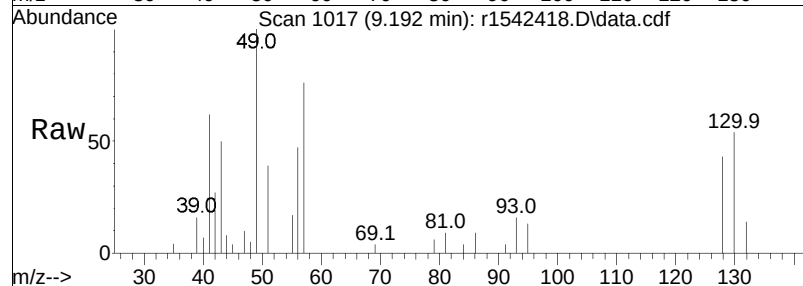
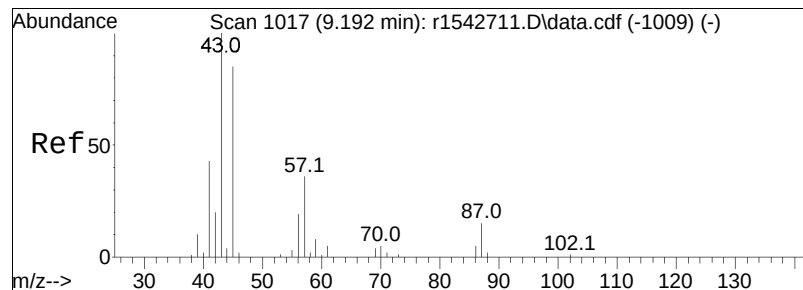
Ion Ratio Lower Upper

42 100

71 34.4 30.6 46.0

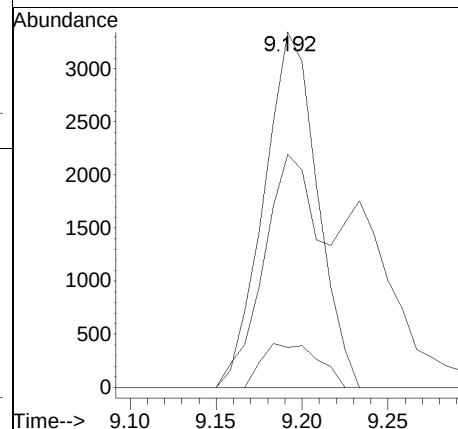
72 32.7 32.5 48.7

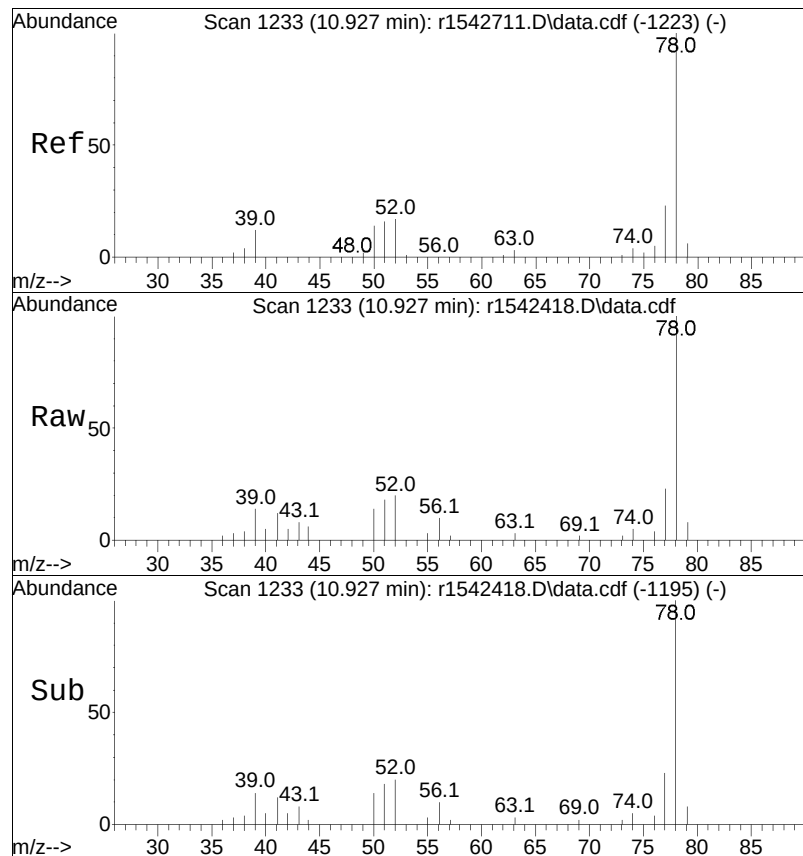




#44
hexane
Concen: 0.18 ppbV
RT: 9.192 min Scan# 1017
Delta R.T. 0.050 min
Lab File: r1542418.D
Acq: 31 Jan 2024 5:43 PM

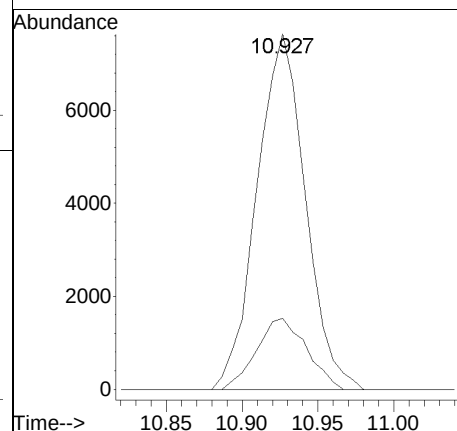
Tgt	Ion	Ratio	Lower	Upper
57	100			
43	65.6	146.8	220.2#	
86	11.3	12.7	19.1#	

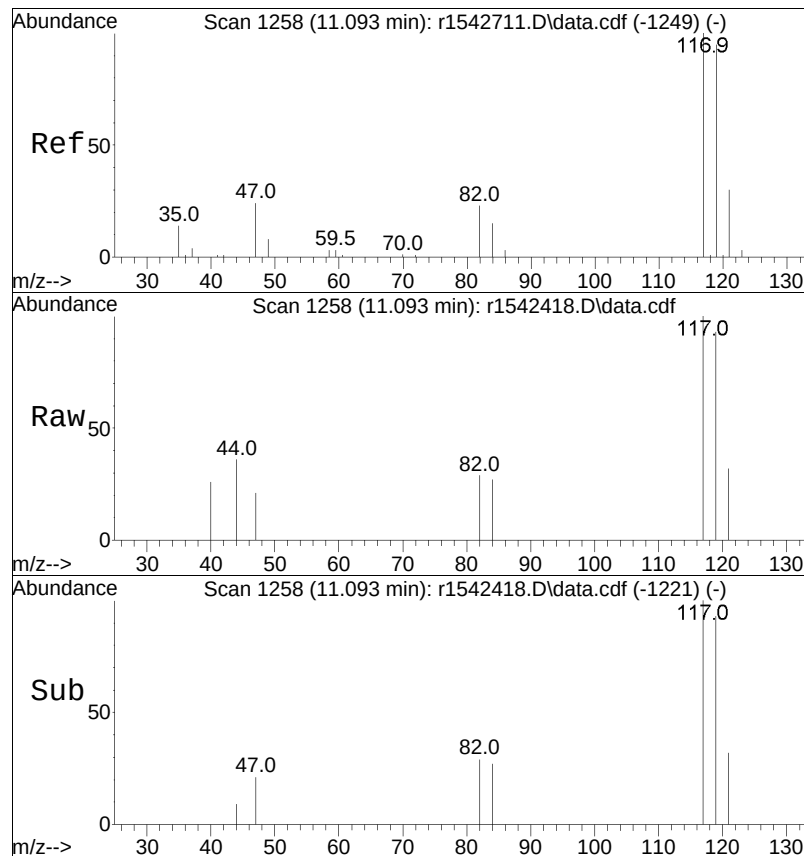




#50
benzene
Concen: 0.23 ppbV
RT: 10.927 min Scan# 1233
Delta R.T. 0.053 min
Lab File: r1542418.D
Acq: 31 Jan 2024 5:43 PM

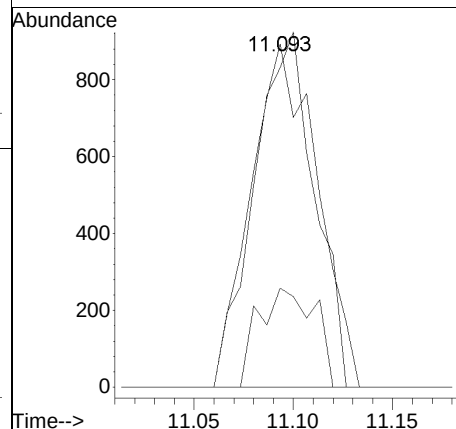
Tgt Ion	Ratio	Lower	Upper
78	100		
52	20.0	14.1	21.1

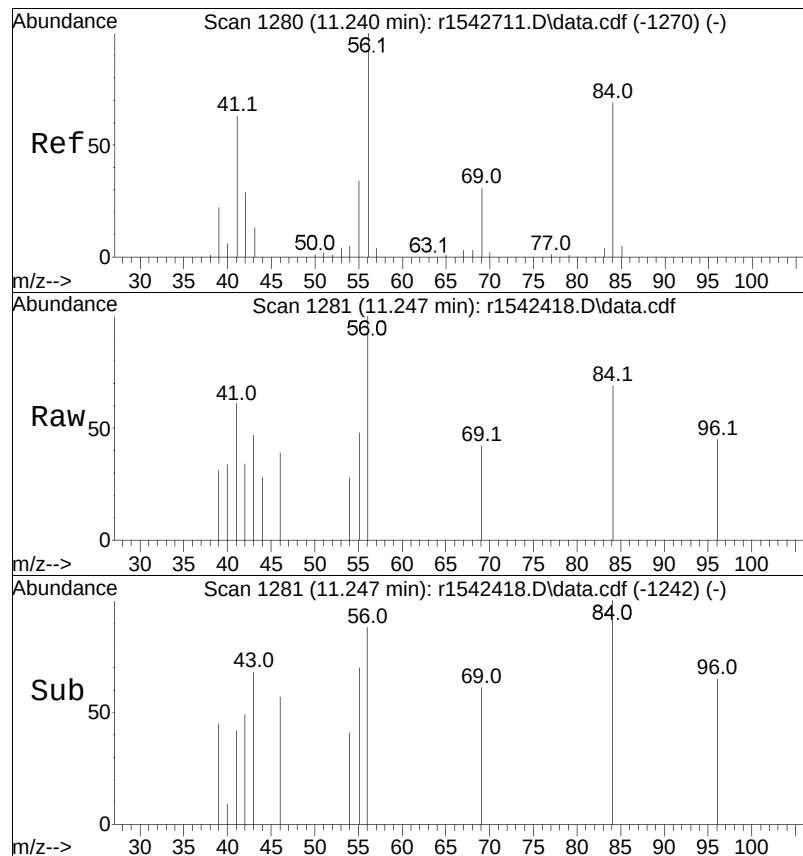




#52
 carbon tetrachloride
 Concen: 0.07 ppbV
 RT: 11.093 min Scan# 1258
 Delta R.T. 0.047 min
 Lab File: r1542418.D
 Acq: 31 Jan 2024 5:43 PM

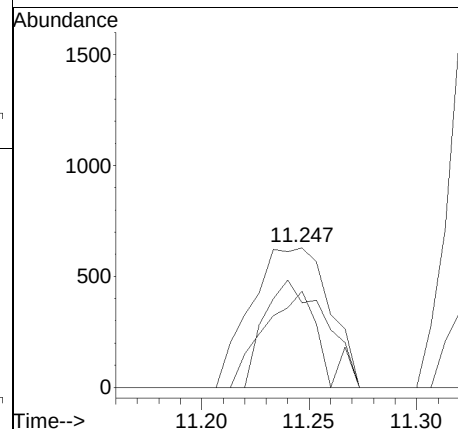
Tgt Ion:	117	Resp:	2073
Ion Ratio	Lower	Upper	
117	100		
119	93.1	77.1	115.7
82	28.9	17.2	25.8#

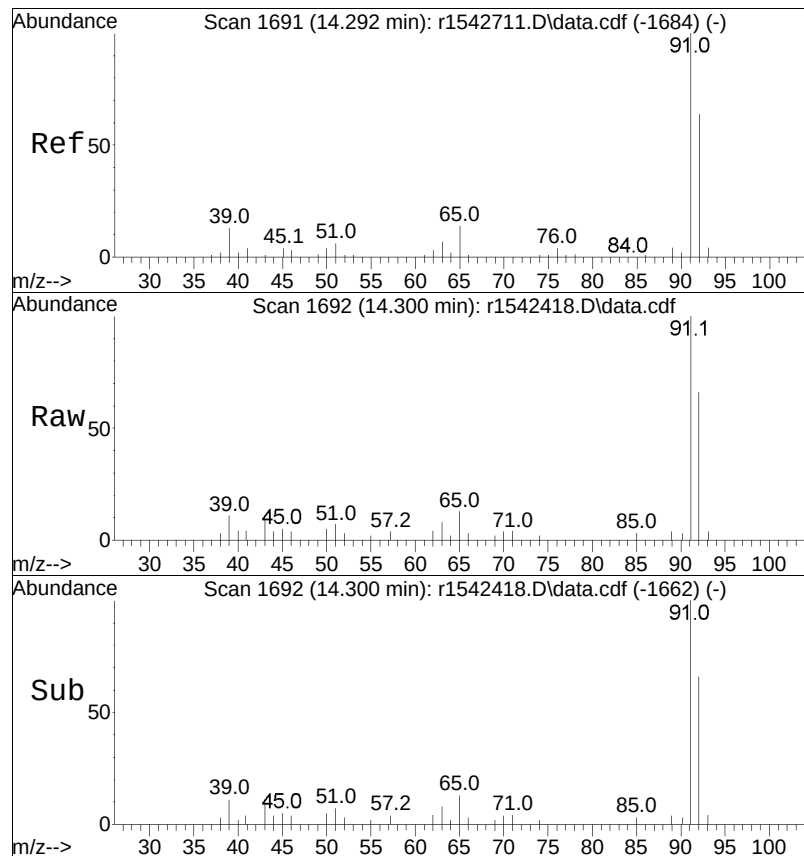




#53
cyclohexane
Concen: 0.04 ppbV
RT: 11.247 min Scan# 1281
Delta R.T. 0.060 min
Lab File: r1542418.D
Acq: 31 Jan 2024 5:43 PM

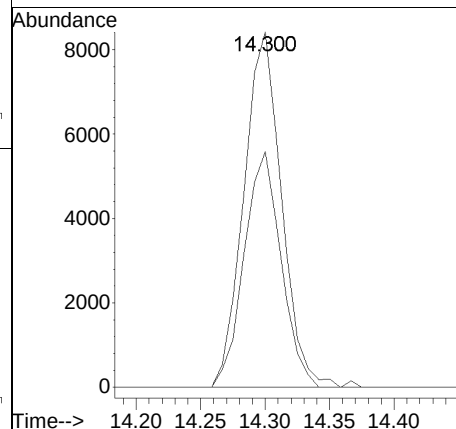
Tgt	Ion: 56	Resp:	1590
Ion	Ratio	Lower	Upper
56	100		
84	69.0	60.2	90.2
41	60.7	33.5	50.3#

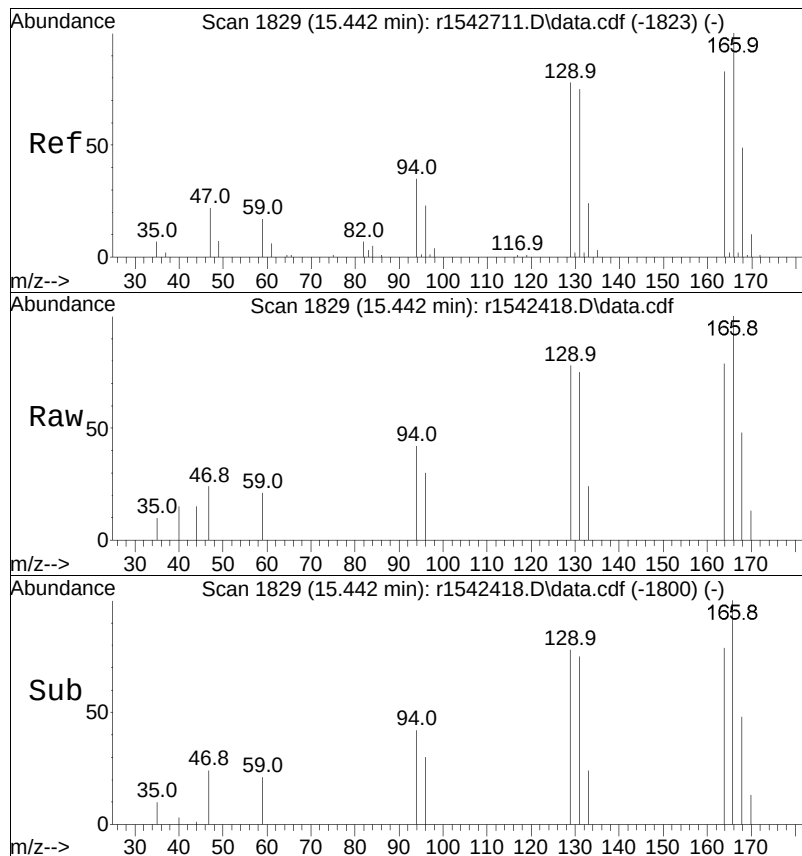




#68
 toluene
 Concen: 0.17 ppbV
 RT: 14.300 min Scan# 1692
 Delta R.T. 0.050 min
 Lab File: r1542418.D
 Acq: 31 Jan 2024 5:43 PM

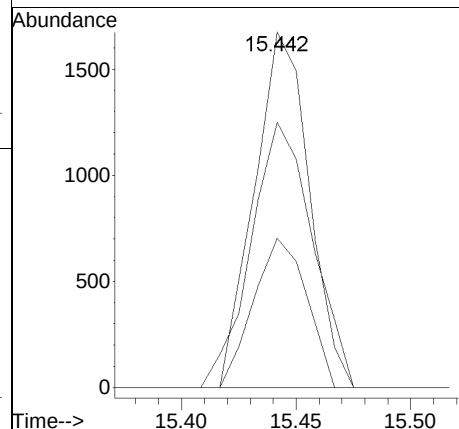
Tgt Ion:	91	Resp:	17188
Ion Ratio	Lower	Upper	
91	100		
92	66.4	51.0	76.4

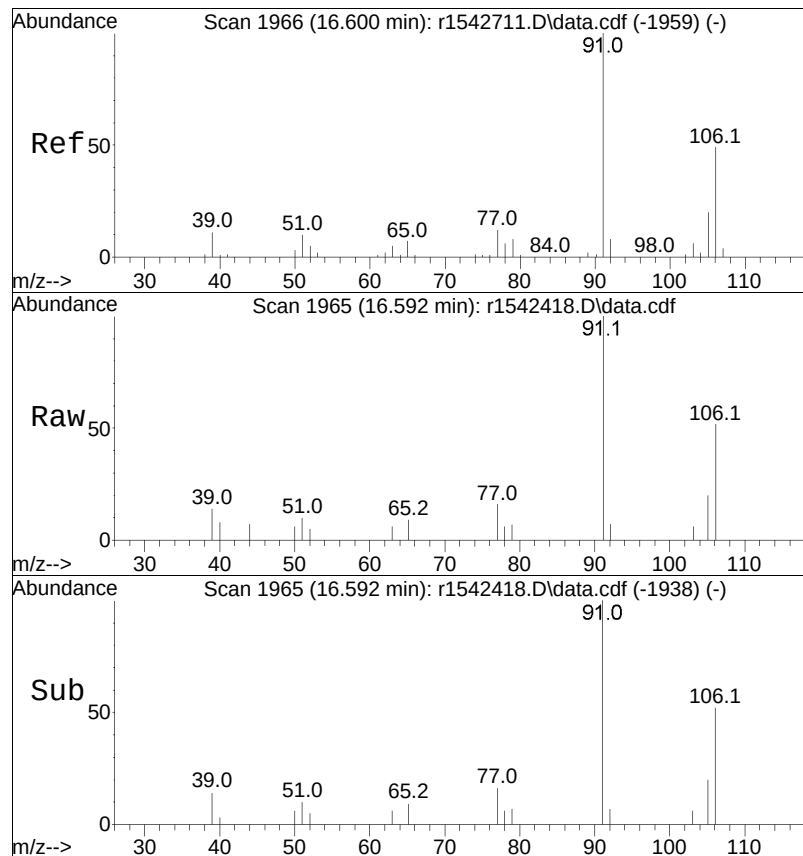




#78
 tetrachloroethene
 Concen: 0.07 ppbV
 RT: 15.442 min Scan# 1829
 Delta R.T. 0.042 min
 Lab File: r1542418.D
 Acq: 31 Jan 2024 5:43 PM

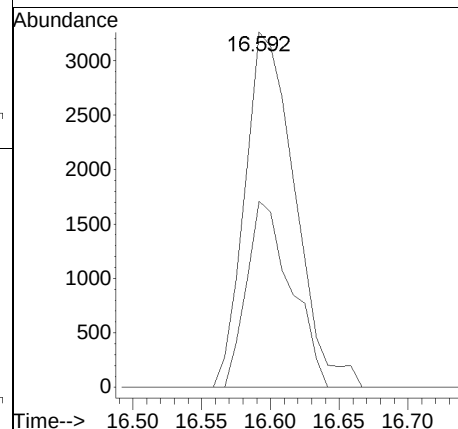
Tgt Ion	Ratio	Lower	Upper
166	100		
131	74.6	55.6	83.4
94	42.0	25.4	38.2#

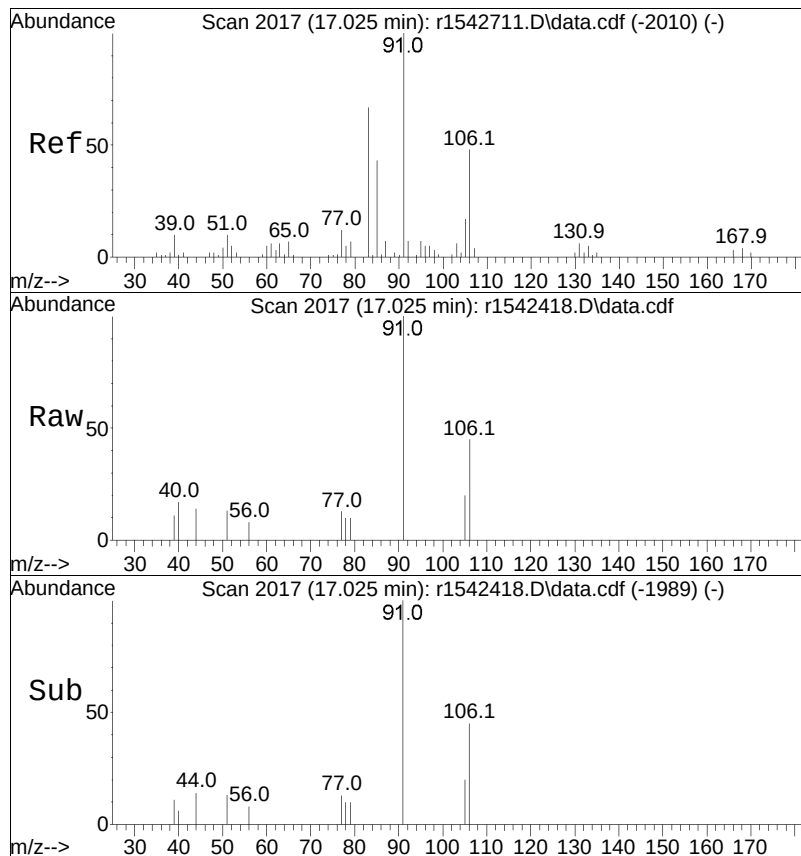




#83
 m+p-xylene
 Concen: 0.08 ppbV
 RT: 16.592 min Scan# 1965
 Delta R.T. 0.025 min
 Lab File: r1542418.D
 Acq: 31 Jan 2024 5:43 PM

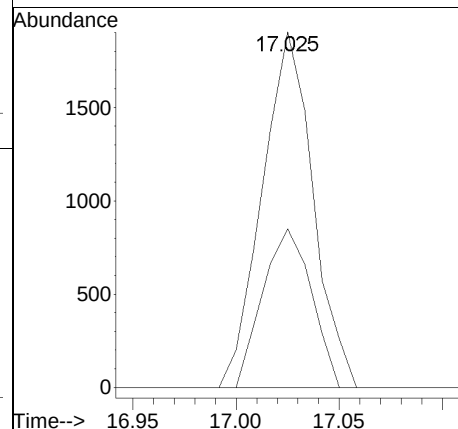
Tgt Ion	Ratio	Lower	Upper
91	100		
106	52.4	42.7	64.1





#87
 o-xylene
 Concen: 0.03 ppbV
 RT: 17.025 min Scan# 2017
 Delta R.T. 0.033 min
 Lab File: r1542418.D
 Acq: 31 Jan 2024 5:43 PM

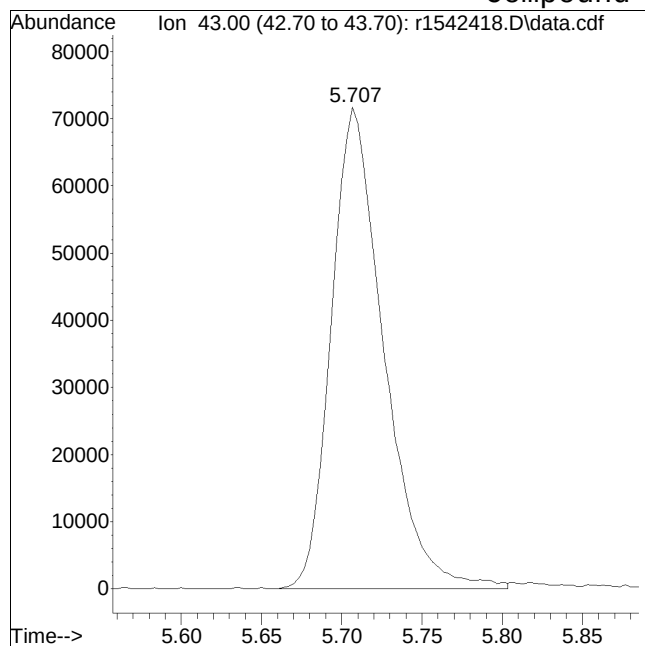
Tgt	Ion	Resp	Lower	Upper
91	100	3267		
106	44.6		40.0	60.0



Manual Integration Report

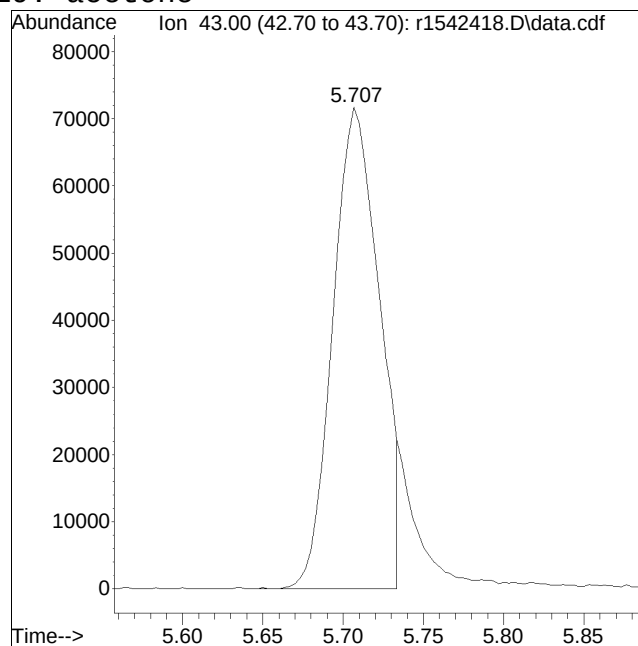
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1542418.D Operator : AIRLAB15:JMB
Date Inj'd : 1/31/2020 0:5: 3 Instrument :
Sample : L2403288-02,3,250,250 Quant Date : 2/1/2024 1:33 pm

Compound #19: acetone



Original Peak Response = 163478

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



Manual Peak Response = 145588 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542419.D
 Acq On : 31 Jan 2024 6:22 PM
 Operator : AIRLAB15:JMB
 Sample : L2403288-04,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 13:33:42 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131T\r1542413.D
 Sub List : PADEP-T015-IA+_CIS-1,2 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.133	49	353472	10.000	ppbV	0.06
Standard Area = 375210			Recovery =		94.21%	
43) 1,4-difluorobenzene	11.347	114	918258	10.000	ppbV #	0.05
Standard Area = 971110			Recovery =		94.56%	
67) chlorobenzene-D5	16.050	54	179115	10.000	ppbV	0.04
Standard Area = 187857			Recovery =		95.35%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	4.036	85	20388	0.506	ppbV	97
6) chloromethane	4.204	50	14686	0.970	ppbV	95
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	4.582	54	739	0.050	ppbV	98
13) bromomethane	4.858		0	N.D.		
14) chloroethane	5.050		0	N.D.		
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.703	43	359803M6	18.034	ppbV	
21) trichlorofluoromethane	5.893	101	11595	0.385	ppbV	95
22) isopropyl alcohol	5.983	45	7433619	295.717	ppbV	98
26) 1,1-dichloroethene	6.420		0	N.D.		
28) methylene chloride	6.732	49	29052	1.066	ppbV	94
29) 3-chloropropene	6.858		0	N.D.		
30) carbon disulfide	7.044	76	6575	0.103	ppbV #	33
31) Freon 113	7.032	101	2509	0.064	ppbV #	83
32) trans-1,2-dichloroethene	7.783		0	N.D.		
33) 1,1-dichloroethane	8.058		0	N.D.		
34) MTBE	8.075		0	N.D.		
37) cis-1,2-dichloroethene	0.000		0	N.D.		
39) chloroform	9.283	83	5054	0.117	ppbV #	90
40) Tetrahydrofuran	9.733	42	32950M6	1.123	ppbV	
42) 1,2-dichloroethane	0.000		0	N.D.	d	
44) hexane	9.200	57	30533	0.760	ppbV #	46
48) 1,1,1-trichloroethane	0.000		0	N.D.		
50) benzene	10.927	78	23697	0.319	ppbV	94
52) carbon tetrachloride	11.100	117	1922	0.069	ppbV #	86
53) cyclohexane	11.247	56	3048	0.070	ppbV #	78
56) 1,2-dichloropropane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542419.D
 Acq On : 31 Jan 2024 6:22 PM
 Operator : AIRLAB15:JMB
 Sample : L2403288-04,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 13:33:42 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

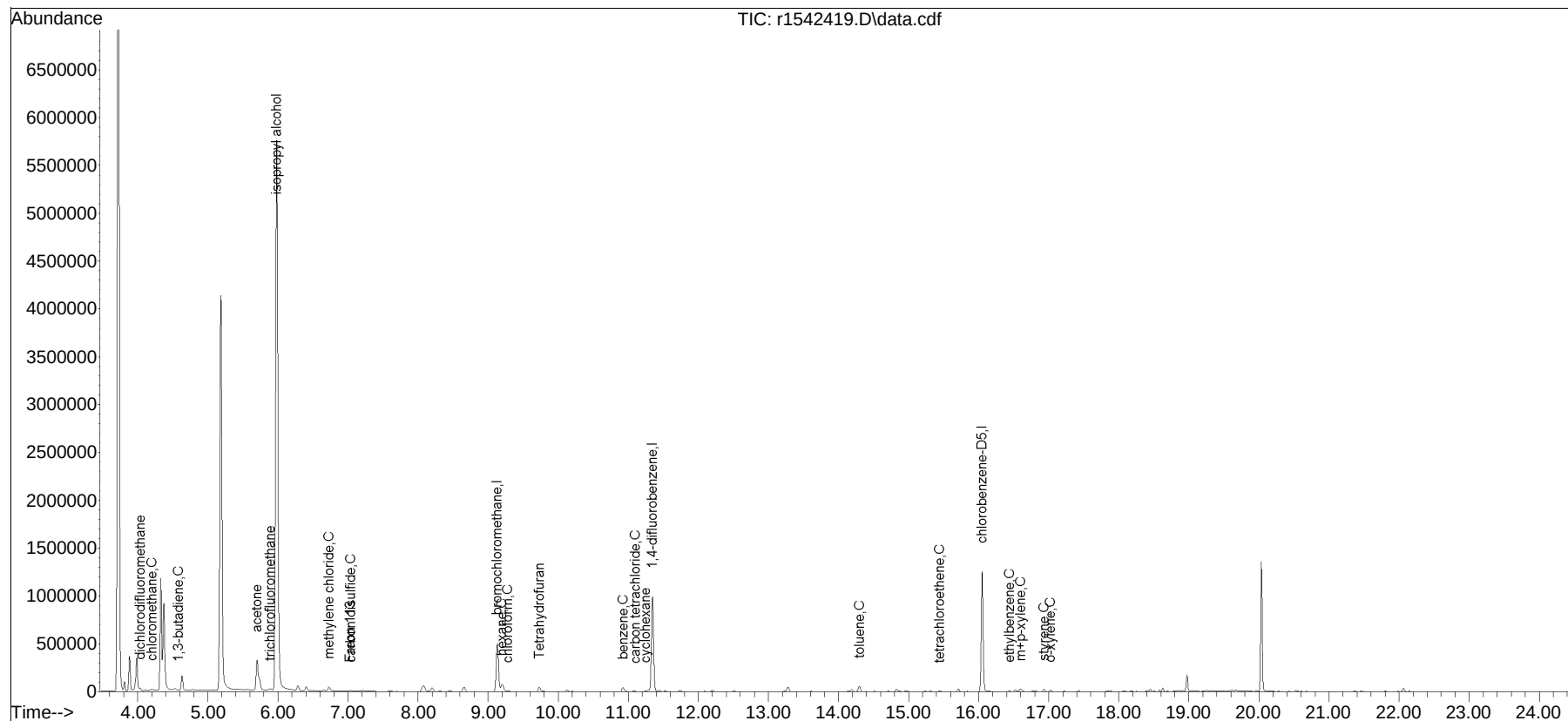
CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131T\r1542413.D
 Sub List : PADEP-T015-IA+_CIS-1,2 - .

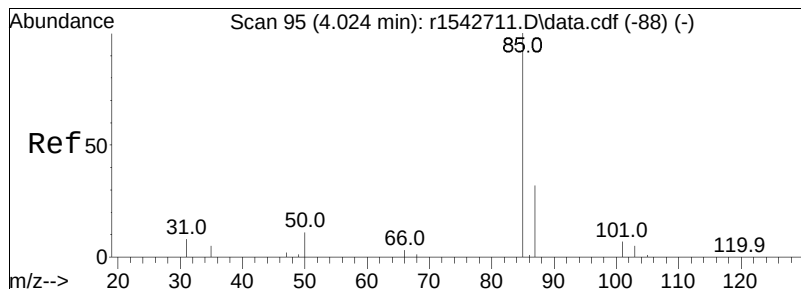
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
58)	1,4-dioxane	0.000		0	N.D.		
59)	trichloroethene	0.000		0	N.D.		
61)	methyl methacrylate	12.400		0	N.D.		
64)	4-methyl-2-pentanone	0.000		0	N.D.	d	
68)	toluene	14.300	91	35649	0.347	ppbV	95
71)	1,3-dichloropropane	0.000		0	N.D.		
78)	tetrachloroethene	15.442	166	3257	0.079	ppbV	97
80)	chlorobenzene	16.092		0	N.D.		
81)	ethylbenzene	16.442	91	8027	0.061	ppbV	92
83)	m+p-xylene	16.600	91	21611	0.208	ppbV	97
84)	bromoform	0.000		0	N.D.		
85)	styrene	16.933	104	9929	0.118	ppbV	97
87)	o-xylene	17.025	91	8363	0.081	ppbV	97
91)	isopropylbenzene	17.533		0	N.D.		
97)	1,3,5-trimethylbenzene	18.158		0	N.D.		
99)	1,2,4-trimethylbenzene	18.442		0	N.D.		
103)	1,4-dichlorobenzene	18.692		0	N.D.		
107)	1,2-dichlorobenzene	18.975		0	N.D.		
115)	1,2,4-trichlorobenzene	20.483		0	N.D.		

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

```
Data Path : 0:\Forensics\Data\AirLab15\2024\01\0131T\  
Data File : r1542419.D  
Acq On    : 31 Jan 2024    6:22 PM  
Operator   : AIRLAB15:JMB  
Sample     : L2403288-04,3,250,250  
Misc       : WG1880230,ICAL20574  
ALS Vial   : 0    Sample Multiplier: 1
```

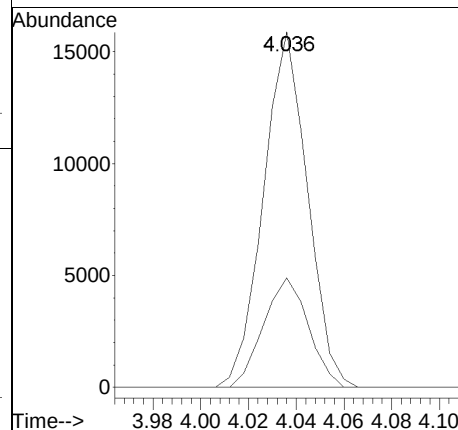
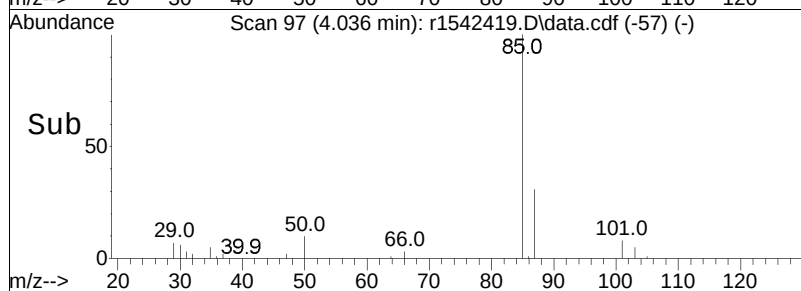
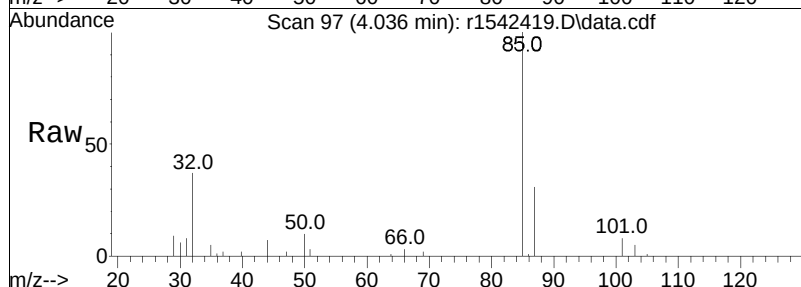
Quant Time: Feb 01 13:33:42 2024
Quant Method : 0:\Forensics\Data\AirLab15\2024\01\0131T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 15:43:21 2023
Response via : Initial Calibration

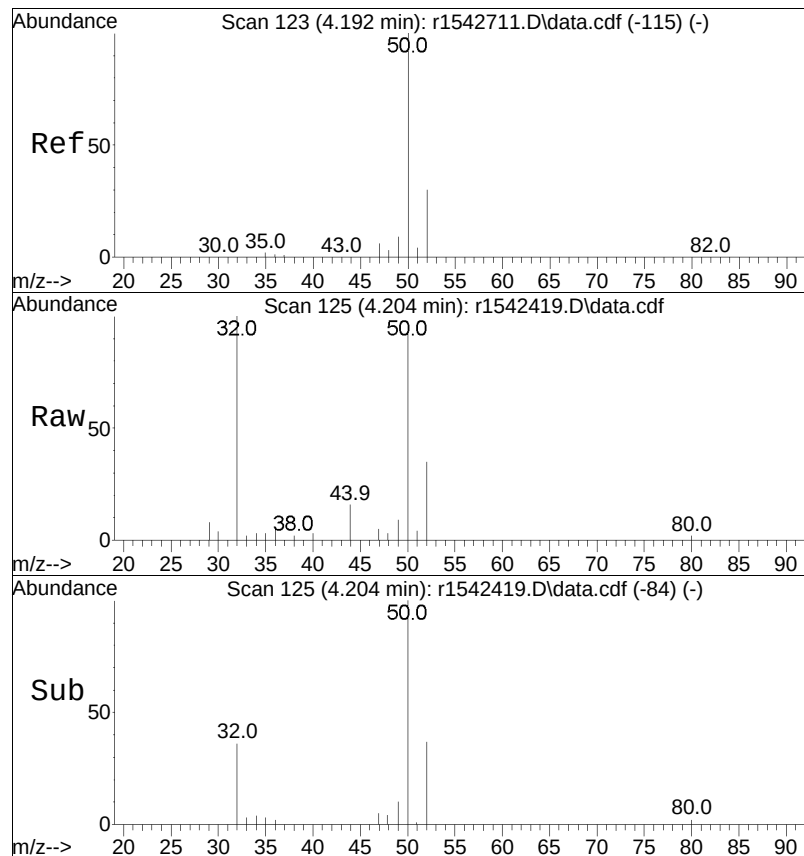




#5
dichlorodifluoromethane
Concen: 0.51 ppbV
RT: 4.036 min Scan# 97
Delta R.T. 0.042 min
Lab File: r1542419.D
Acq: 31 Jan 2024 6:22 PM

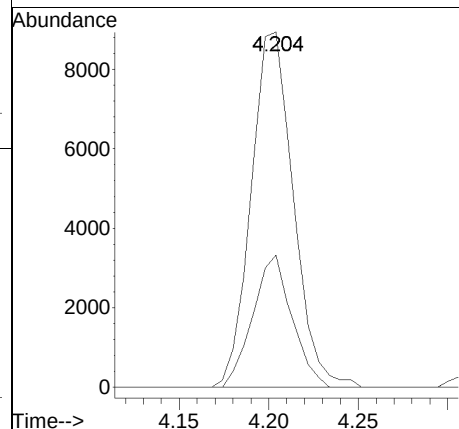
Tgt Ion: 85 Resp: 20388
Ion Ratio Lower Upper
85 100
87 30.8 26.1 39.1

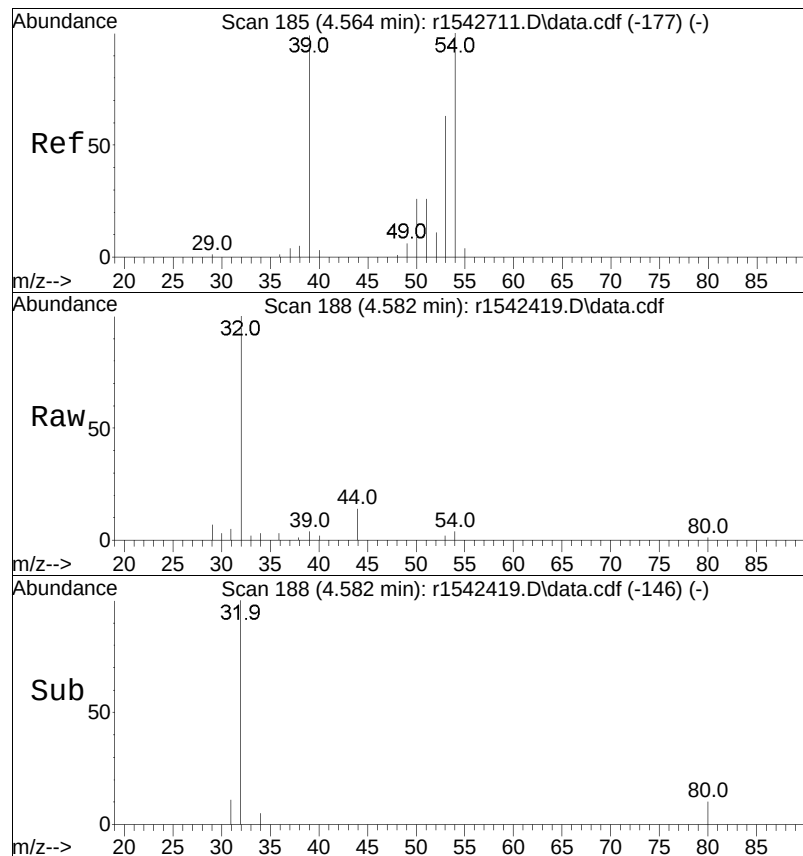




#6
 chloromethane
 Concen: 0.97 ppbV
 RT: 4.204 min Scan# 125
 Delta R.T. 0.048 min
 Lab File: r1542419.D
 Acq: 31 Jan 2024 6:22 PM

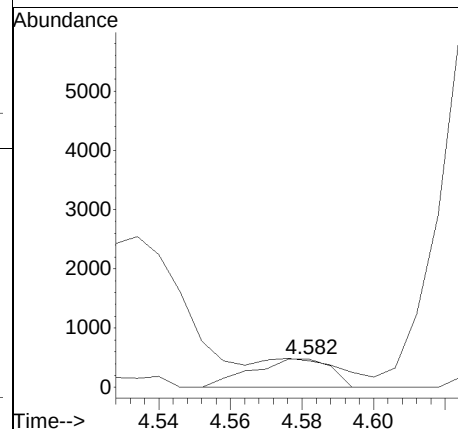
Tgt	Ion: 50	Resp:	14686
Ion	Ratio	Lower	Upper
50	100		
52	37.3	27.4	41.2

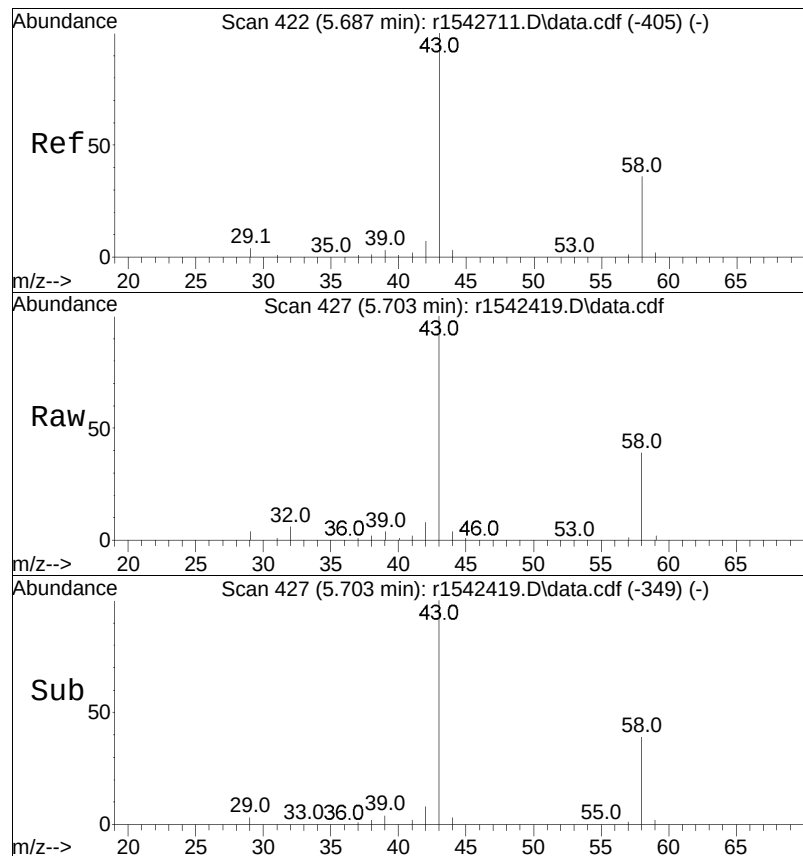




#10
 1,3-butadiene
 Concen: 0.05 ppbV
 RT: 4.582 min Scan# 188
 Delta R.T. 0.054 min
 Lab File: r1542419.D
 Acq: 31 Jan 2024 6:22 PM

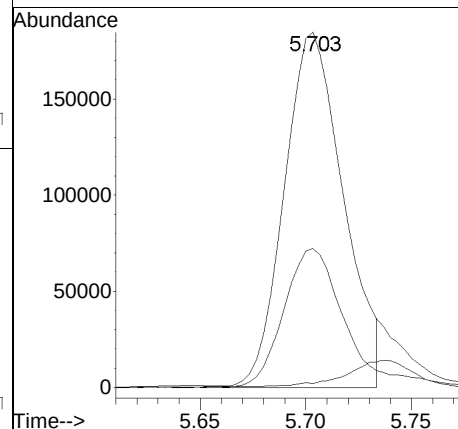
Tgt Ion: 54 Resp: 739
 Ion Ratio Lower Upper
 54 100
 39 94.3 73.8 110.8

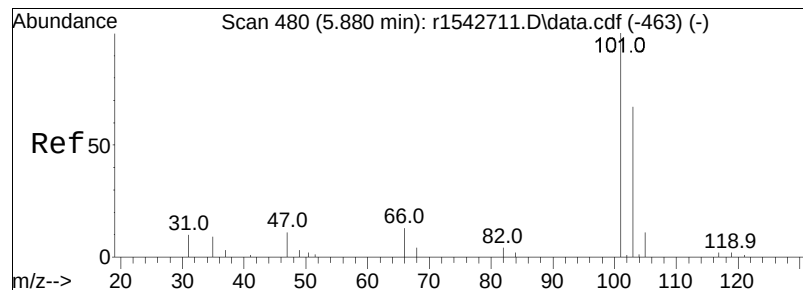




#19
acetone
Concen: 18.03 ppbV m
RT: 5.703 min Scan# 427
Delta R.T. 0.060 min
Lab File: r1542419.D
Acq: 31 Jan 2024 6:22 PM

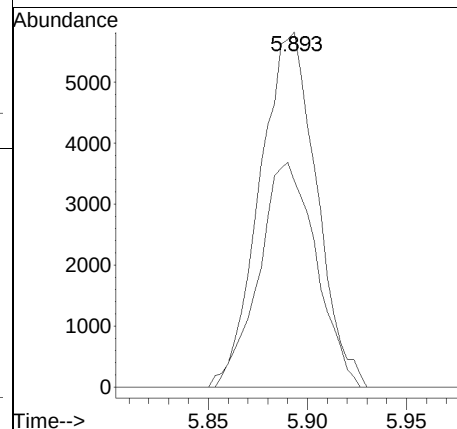
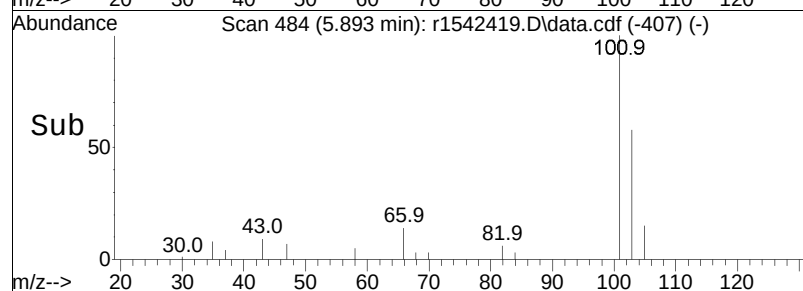
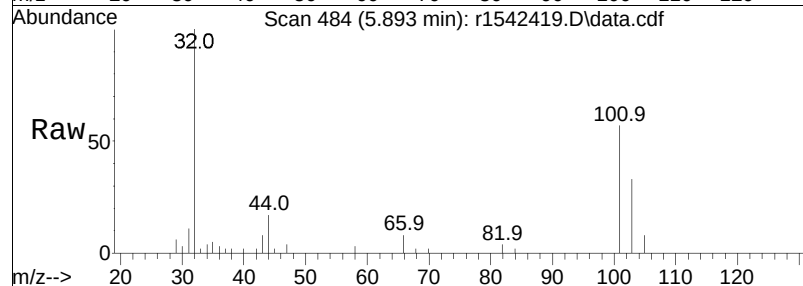
Tgt	Ion: 43	Resp:	359803
Ion	Ratio	Lower	Upper
43	100		
58	39.1	39.0	58.4
57	1.1	0.9	1.3

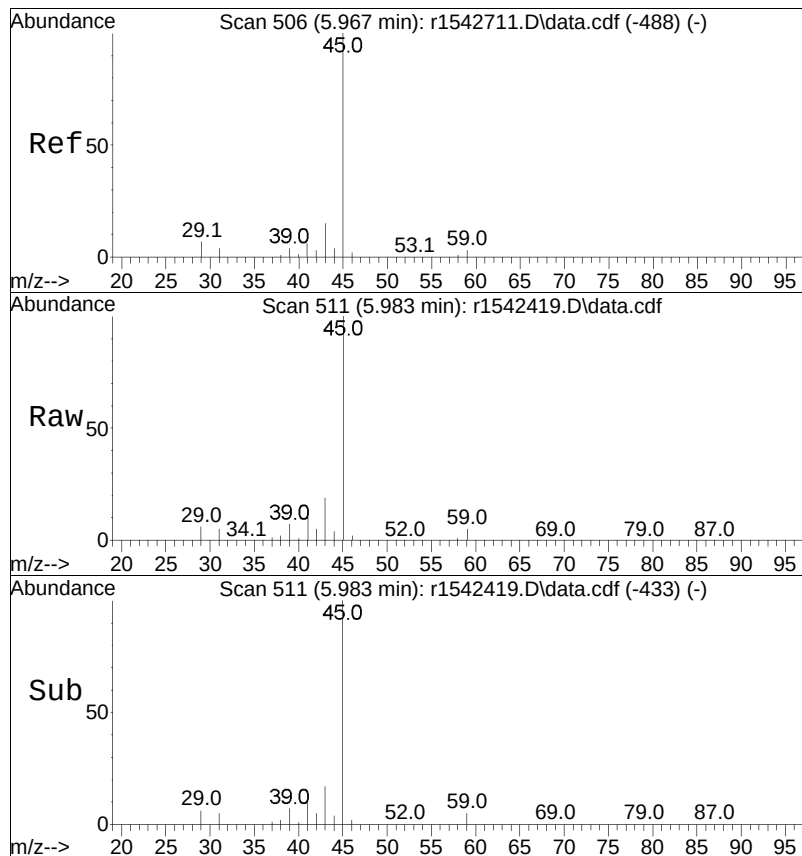




#21
 trichlorofluoromethane
 Concen: 0.39 ppbV
 RT: 5.893 min Scan# 484
 Delta R.T. 0.057 min
 Lab File: r1542419.D
 Acq: 31 Jan 2024 6:22 PM

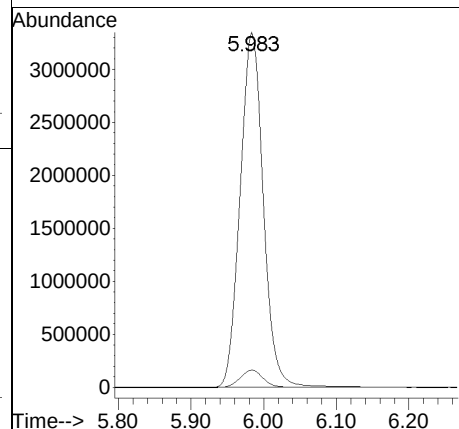
Tgt Ion	Ratio	Lower	Upper
101	100		
103	58.1	49.4	74.0

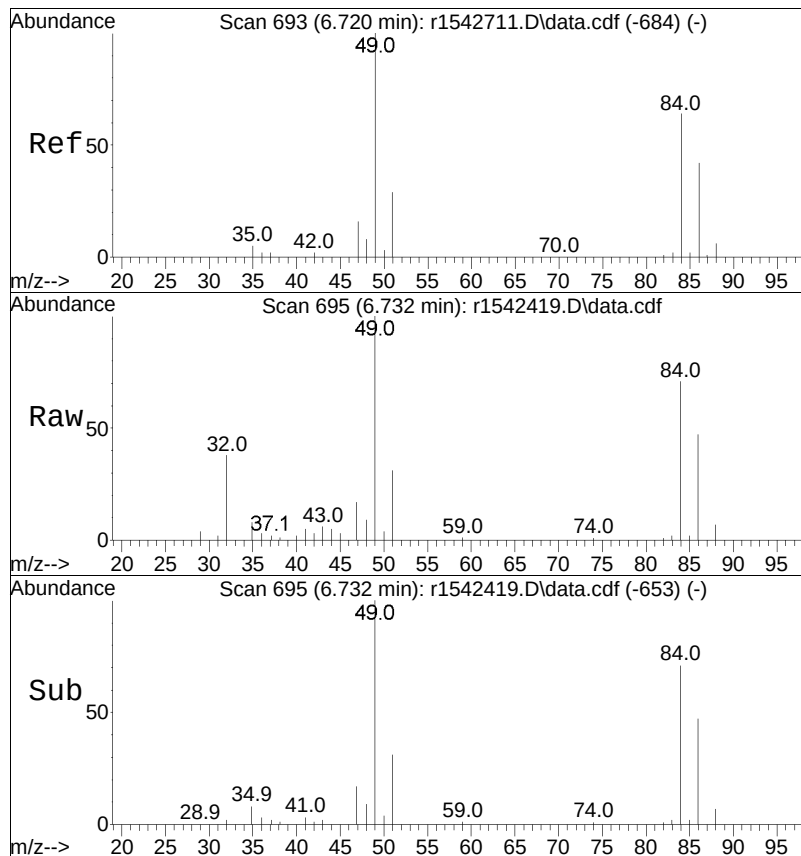




#22
 isopropyl alcohol
 Concen: 295.72 ppbV
 RT: 5.983 min Scan# 511
 Delta R.T. 0.060 min
 Lab File: r1542419.D
 Acq: 31 Jan 2024 6:22 PM

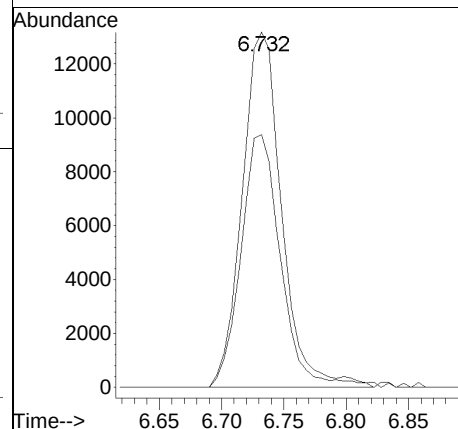
Tgt Ion	Ratio	Lower	Upper
45	100		
59	4.9	4.6	6.8

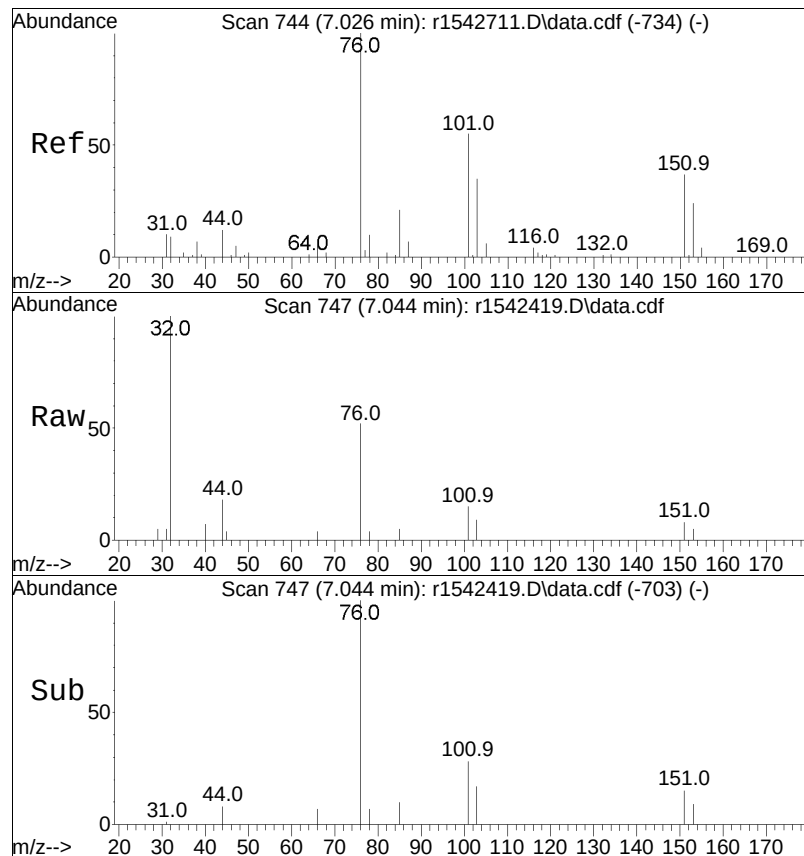




#28
 methylene chloride
 Concen: 1.07 ppbV
 RT: 6.732 min Scan# 695
 Delta R.T. 0.054 min
 Lab File: r1542419.D
 Acq: 31 Jan 2024 6:22 PM

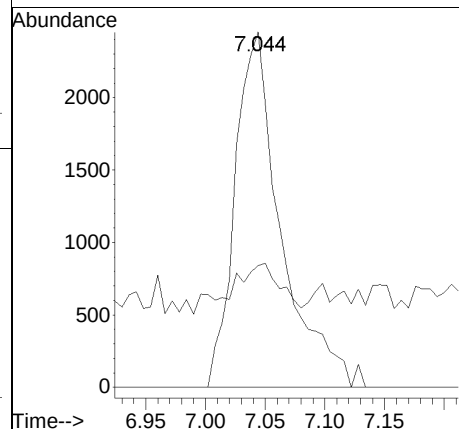
Tgt Ion:	49	84	Ratio	Lower	Upper
Resp:	29052				
Ion Ratio	100	71.2			
			61.2	91.8	

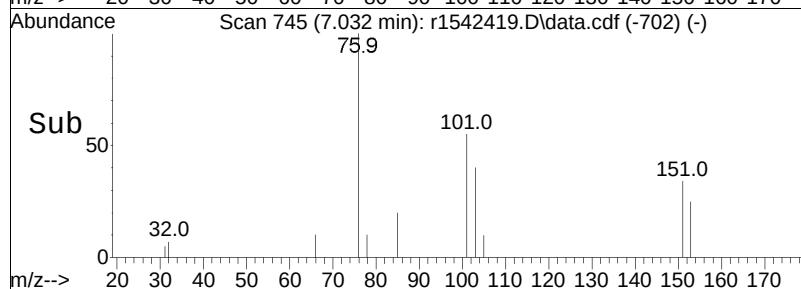
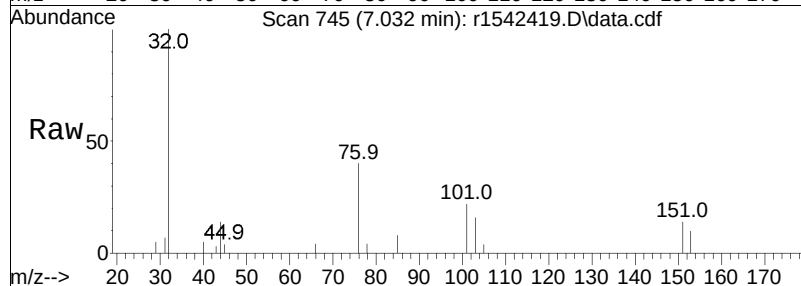
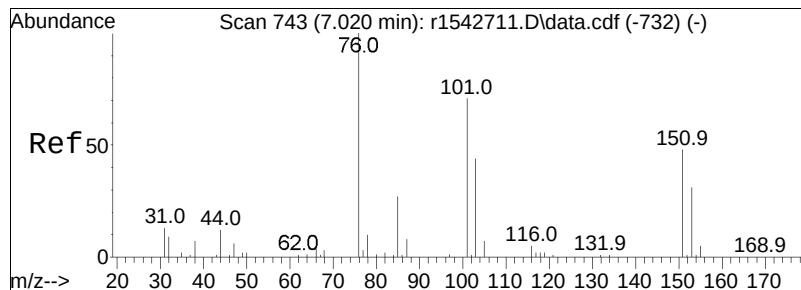




#30
 carbon disulfide
 Concen: 0.10 ppbV
 RT: 7.044 min Scan# 747
 Delta R.T. 0.066 min
 Lab File: r1542419.D
 Acq: 31 Jan 2024 6:22 PM

Tgt Ion	Ratio	Lower	Upper
76	100		
44	34.3	7.8	11.6#





#31

Freon 113

Concen: 0.06 ppbV

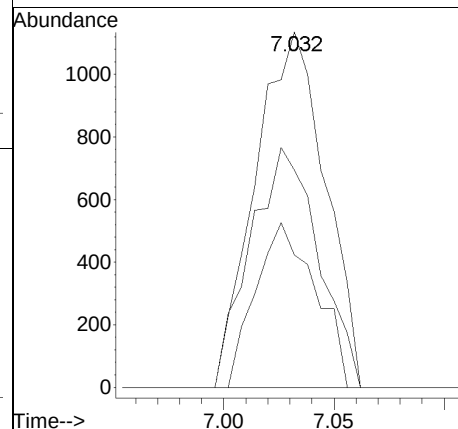
RT: 7.032 min Scan# 745

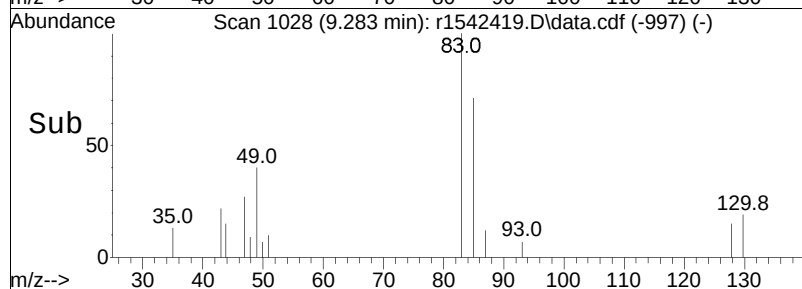
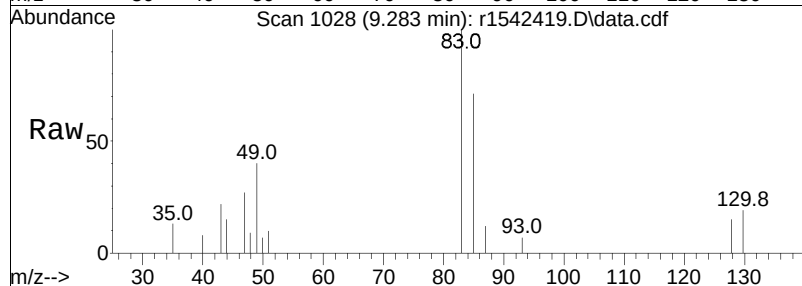
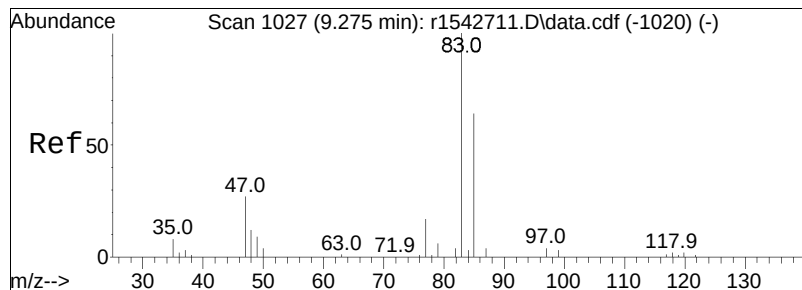
Delta R.T. 0.060 min

Lab File: r1542419.D

Acq: 31 Jan 2024 6:22 PM

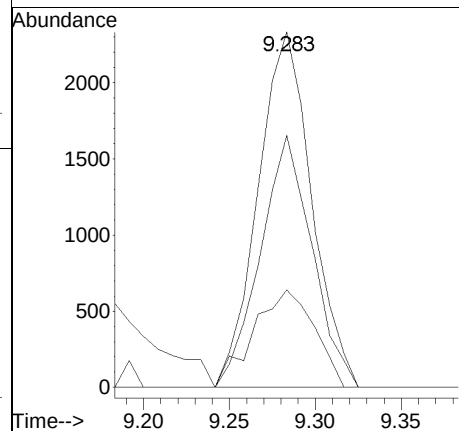
Tgt	Ion:101	Resp:	2509
Ion	Ratio	Lower	Upper
101	100		
85	37.3	35.3	52.9
151	61.1	63.8	95.8#

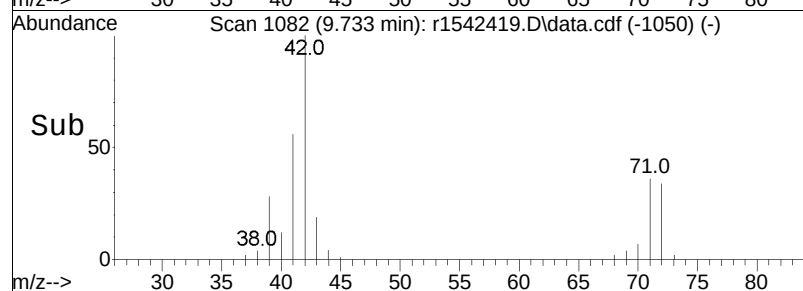
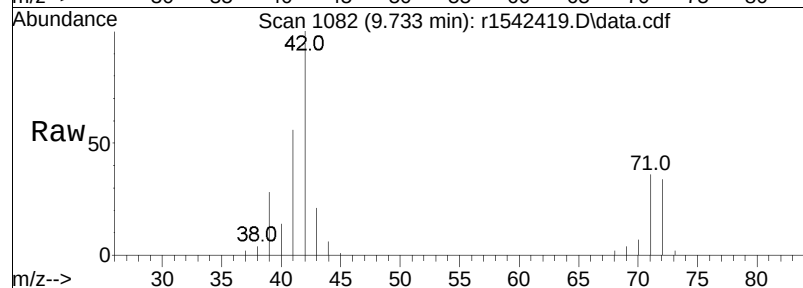
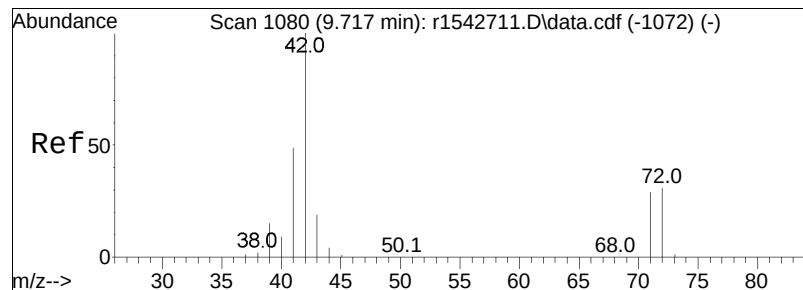




#39
chloroform
Concen: 0.12 ppbV
RT: 9.283 min Scan# 1028
Delta R.T. 0.058 min
Lab File: r1542419.D
Acq: 31 Jan 2024 6:22 PM

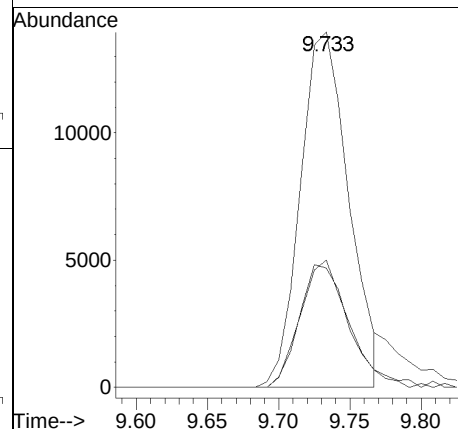
Tgt Ion	Ratio	Lower	Upper
83	100		
85	70.9	51.5	77.3
47	27.4	15.9	23.9

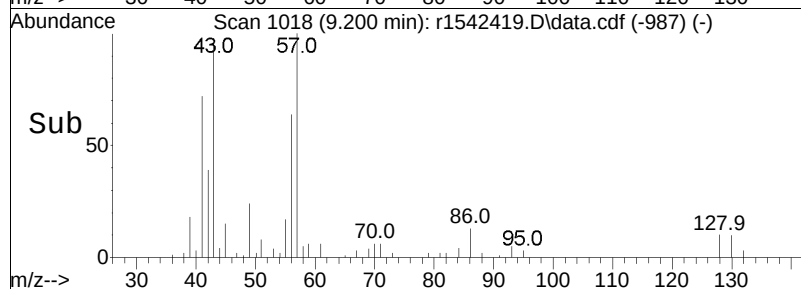
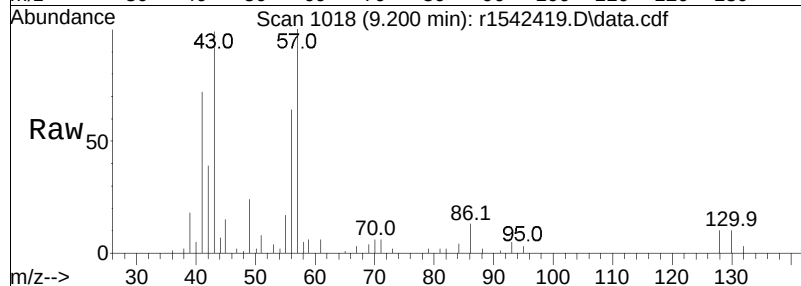
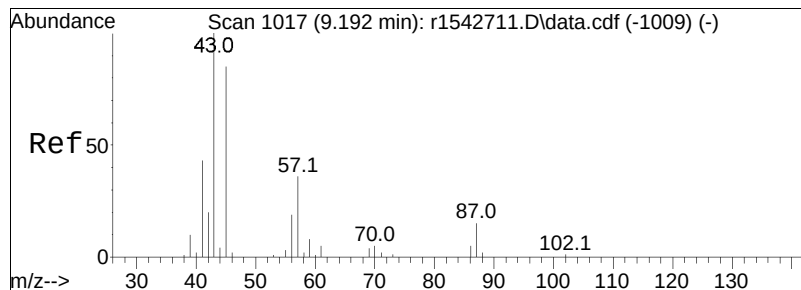




#40
Tetrahydrofuran
Concen: 1.12 ppbV m
RT: 9.733 min Scan# 1082
Delta R.T. 0.067 min
Lab File: r1542419.D
Acq: 31 Jan 2024 6:22 PM

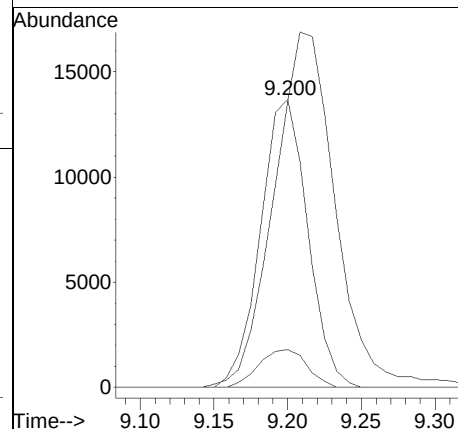
Tgt Ion	Ratio	Lower	Upper
42	100		
71	35.8	30.6	46.0
72	33.6	32.5	48.7

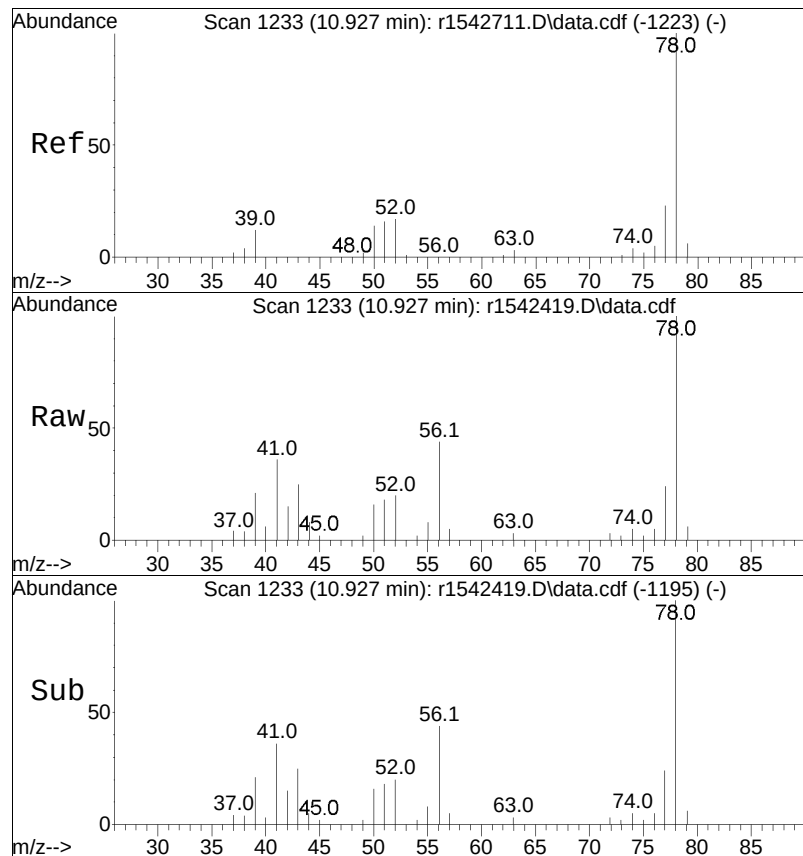




#44
hexane
Concen: 0.76 ppbV
RT: 9.200 min Scan# 1018
Delta R.T. 0.058 min
Lab File: r1542419.D
Acq: 31 Jan 2024 6:22 PM

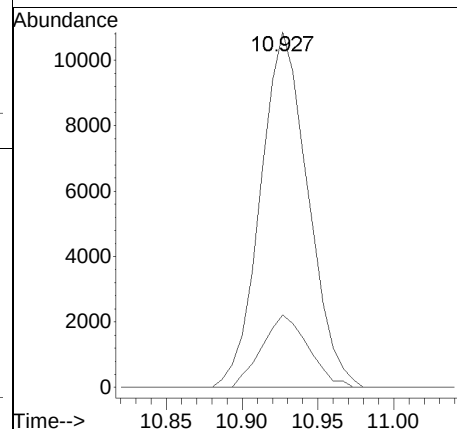
Tgt Ion	Ratio	Lower	Upper
57	100		
43	99.3	146.8	220.2#
86	13.1	12.7	19.1

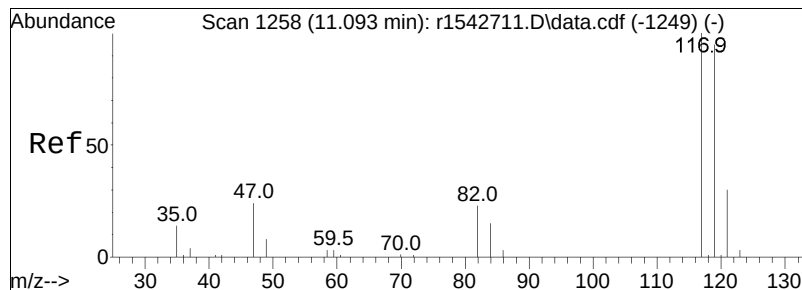




#50
benzene
Concen: 0.32 ppbV
RT: 10.927 min Scan# 1233
Delta R.T. 0.053 min
Lab File: r1542419.D
Acq: 31 Jan 2024 6:22 PM

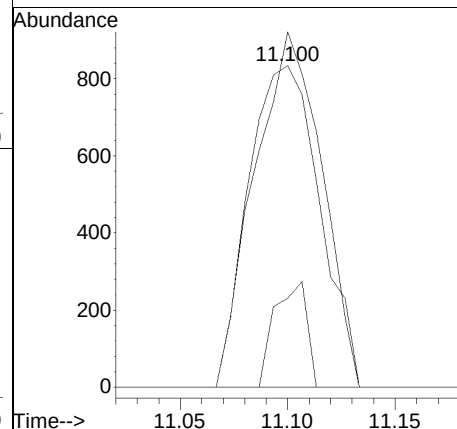
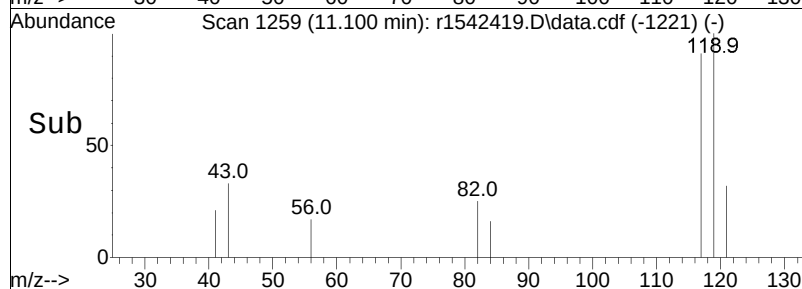
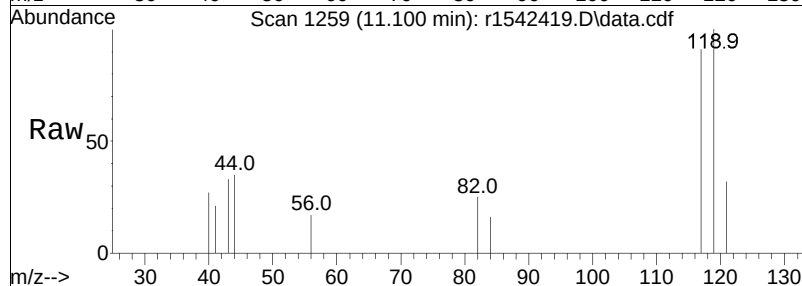
Tgt Ion	Ratio	Lower	Upper
78	100		
52	20.4	14.1	21.1

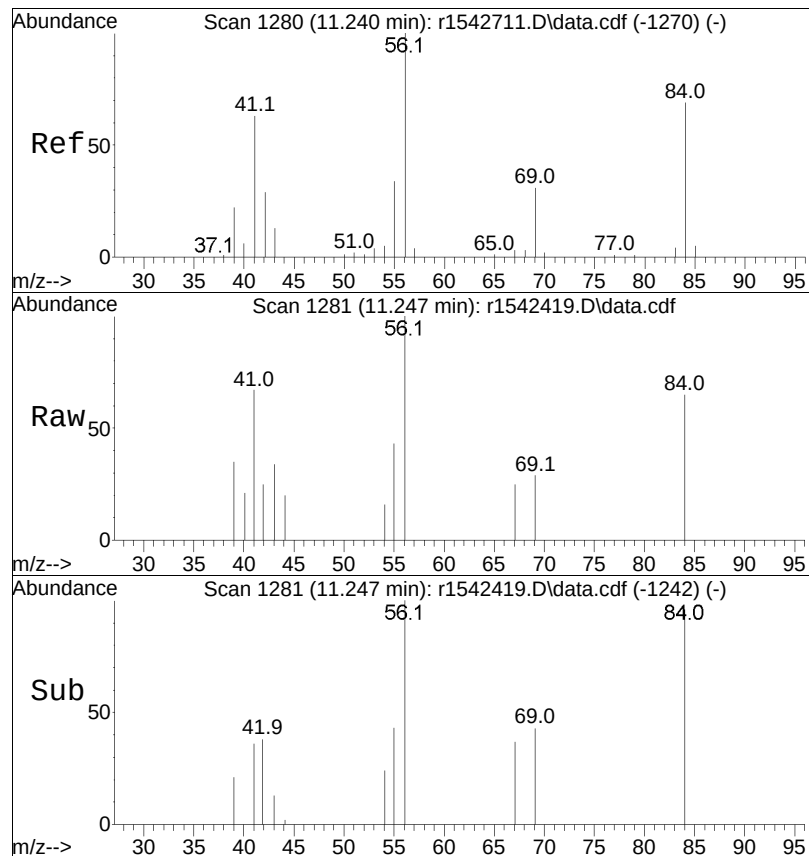




#52
carbon tetrachloride
Concen: 0.07 ppbV
RT: 11.100 min Scan# 1259
Delta R.T. 0.053 min
Lab File: r1542419.D
Acq: 31 Jan 2024 6:22 PM

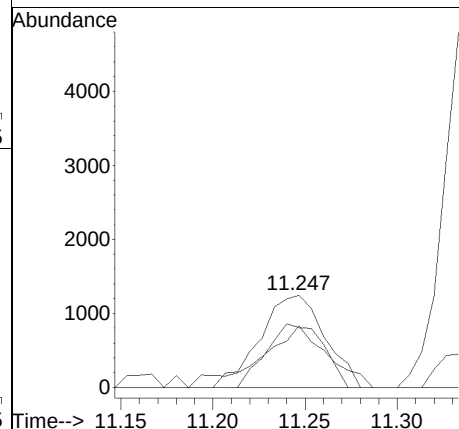
Tgt Ion	Ratio	Lower	Upper
117	100		
119	110.4	77.1	115.7
82	27.7	17.2	25.8

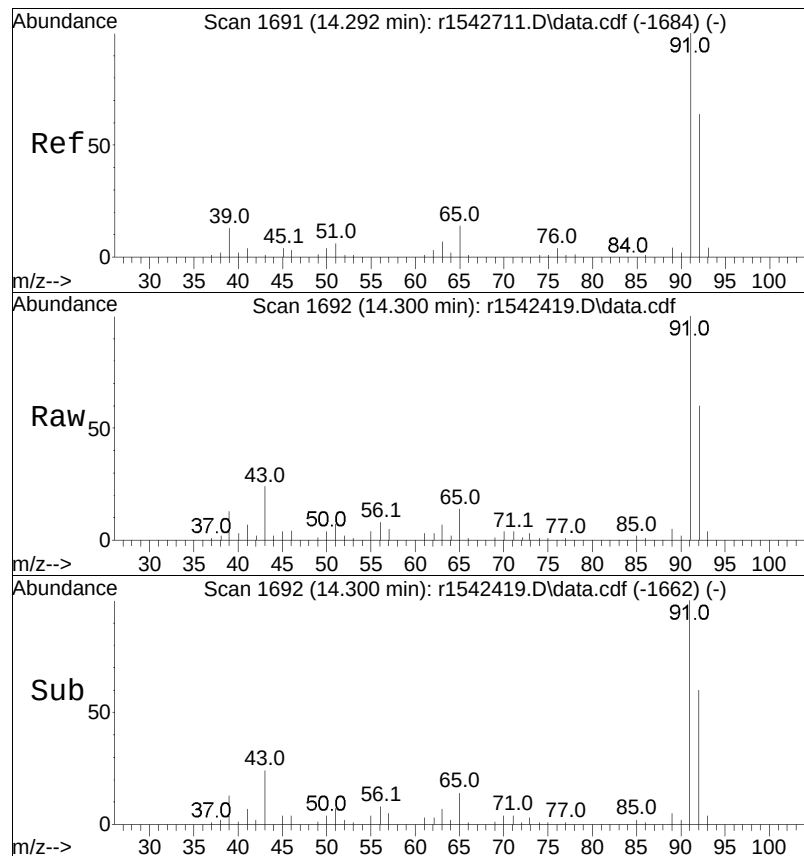




#53
cyclohexane
Concen: 0.07 ppbV
RT: 11.247 min Scan# 1281
Delta R.T. 0.060 min
Lab File: r1542419.D
Acq: 31 Jan 2024 6:22 PM

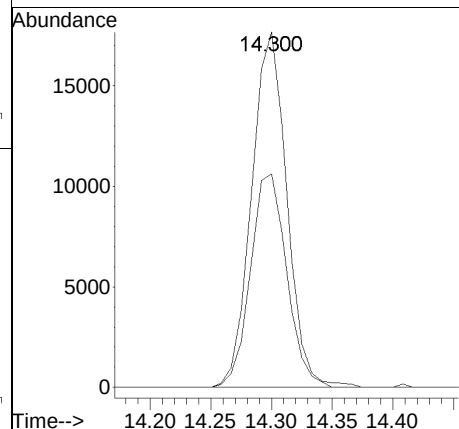
Tgt	Ion: 56	Resp:	3048
Ion	Ratio	Lower	Upper
56	100		
84	64.8	60.2	90.2
41	66.9	33.5	50.3#

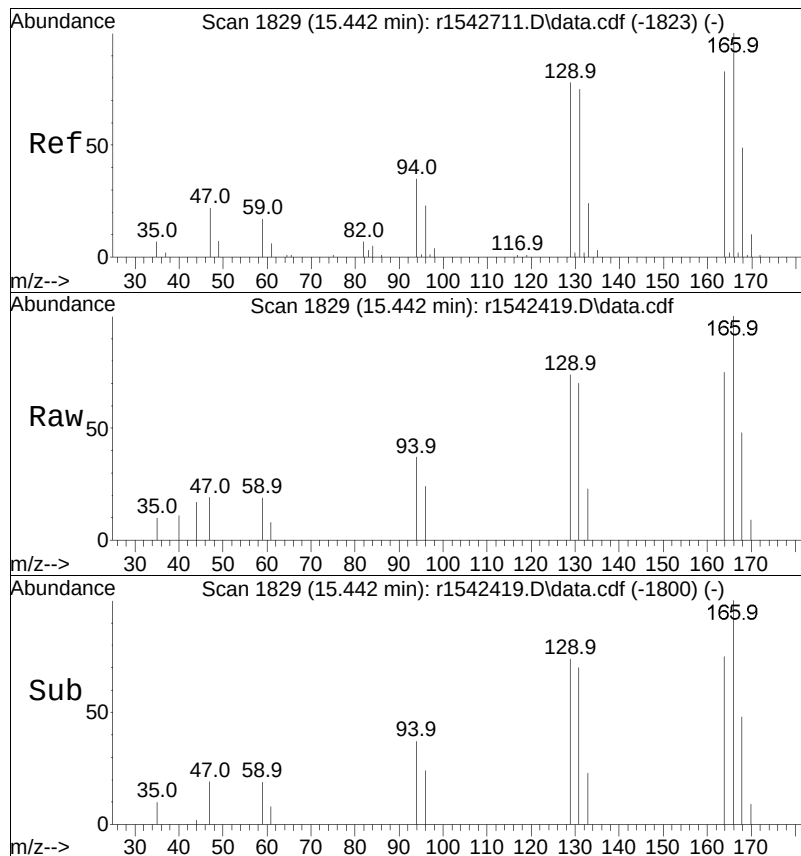




#68
toluene
Concen: 0.35 ppbV
RT: 14.300 min Scan# 1692
Delta R.T. 0.050 min
Lab File: r1542419.D
Acq: 31 Jan 2024 6:22 PM

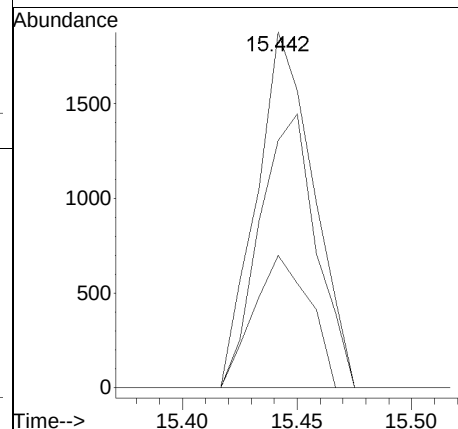
Tgt	Ion	Resp	Lower	Upper
91	100			
92	60.1	51.0	76.4	

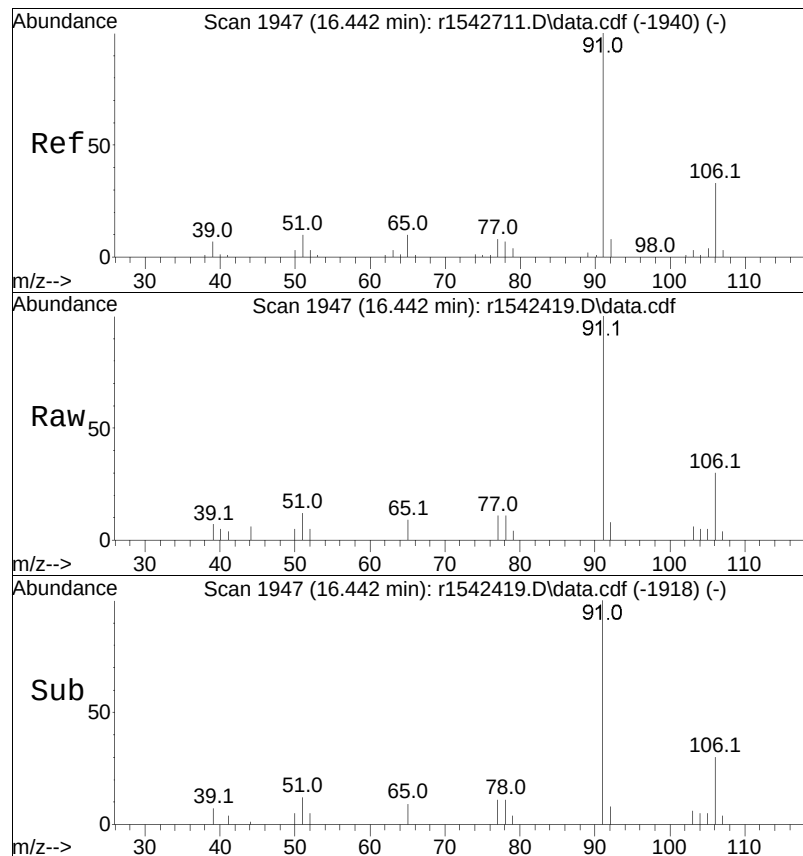




#78
 tetrachloroethene
 Concen: 0.08 ppbV
 RT: 15.442 min Scan# 1829
 Delta R.T. 0.042 min
 Lab File: r1542419.D
 Acq: 31 Jan 2024 6:22 PM

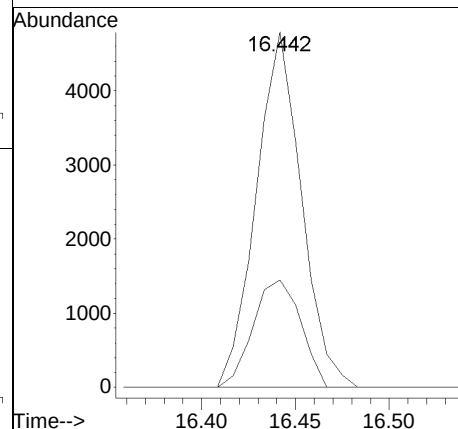
Tgt Ion	Ratio	Lower	Upper
166	100		
131	69.5	55.6	83.4
94	37.1	25.4	38.2

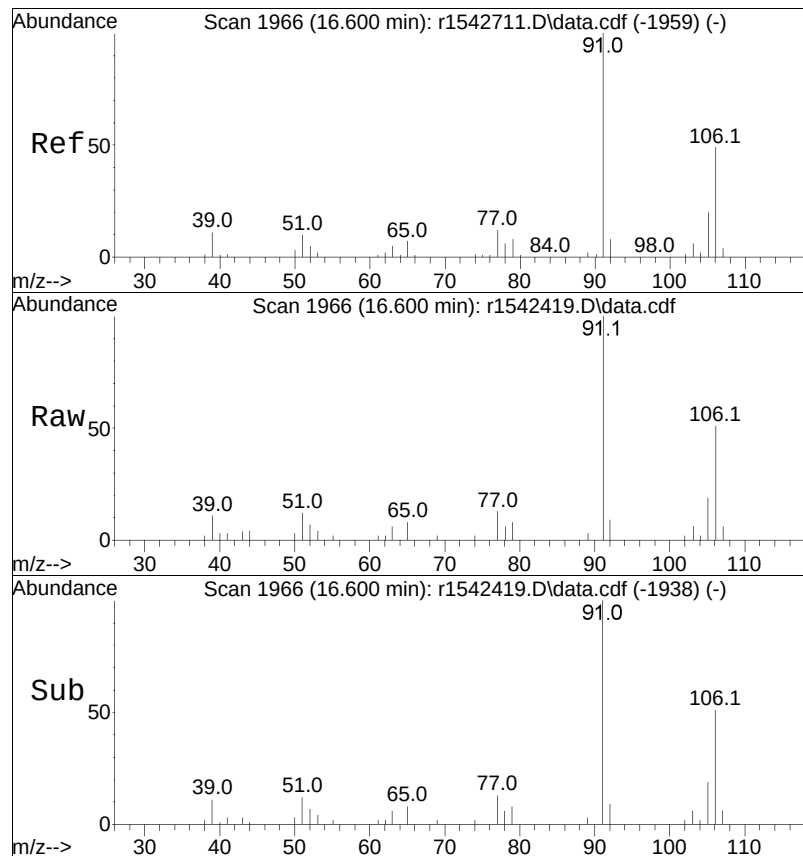




#81
ethylbenzene
Concen: 0.06 ppbV
RT: 16.442 min Scan# 1947
Delta R.T. 0.042 min
Lab File: r1542419.D
Acq: 31 Jan 2024 6:22 PM

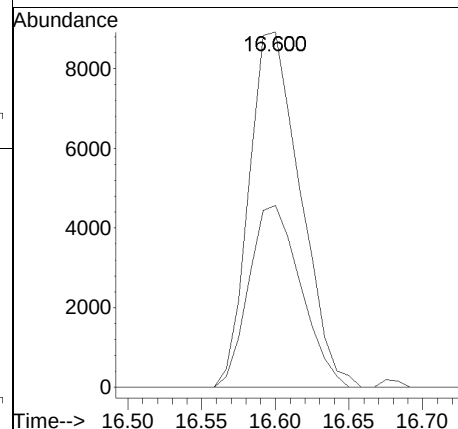
Tgt	Ion	Resp	Lower	Upper
91	100	8027		
106	30.3	27.7	41.5	

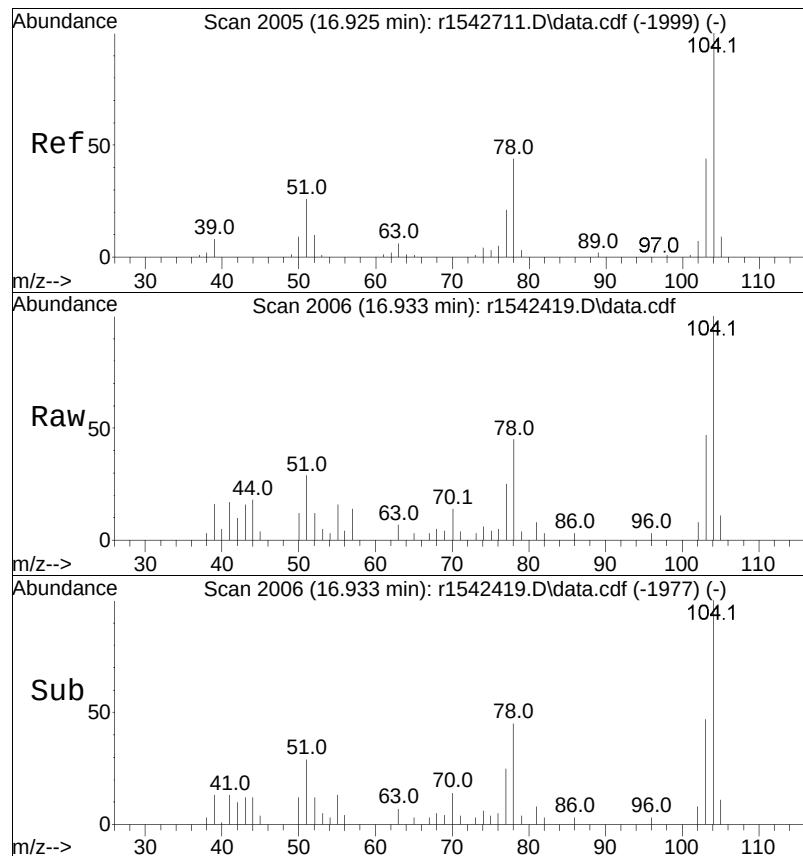




#83
 m+p-xylene
 Concen: 0.21 ppbV
 RT: 16.600 min Scan# 1966
 Delta R.T. 0.033 min
 Lab File: r1542419.D
 Acq: 31 Jan 2024 6:22 PM

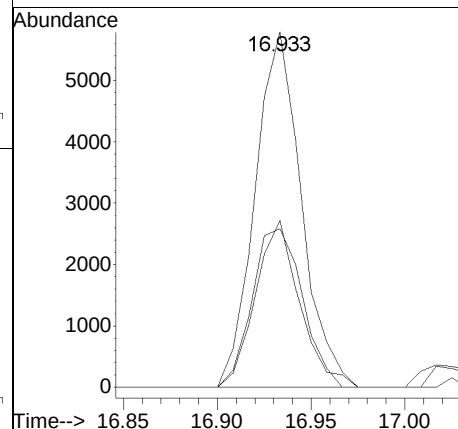
Tgt	Ion	Resp	Lower	Upper
91	100	21611		
106	51.2	42.7	64.1	

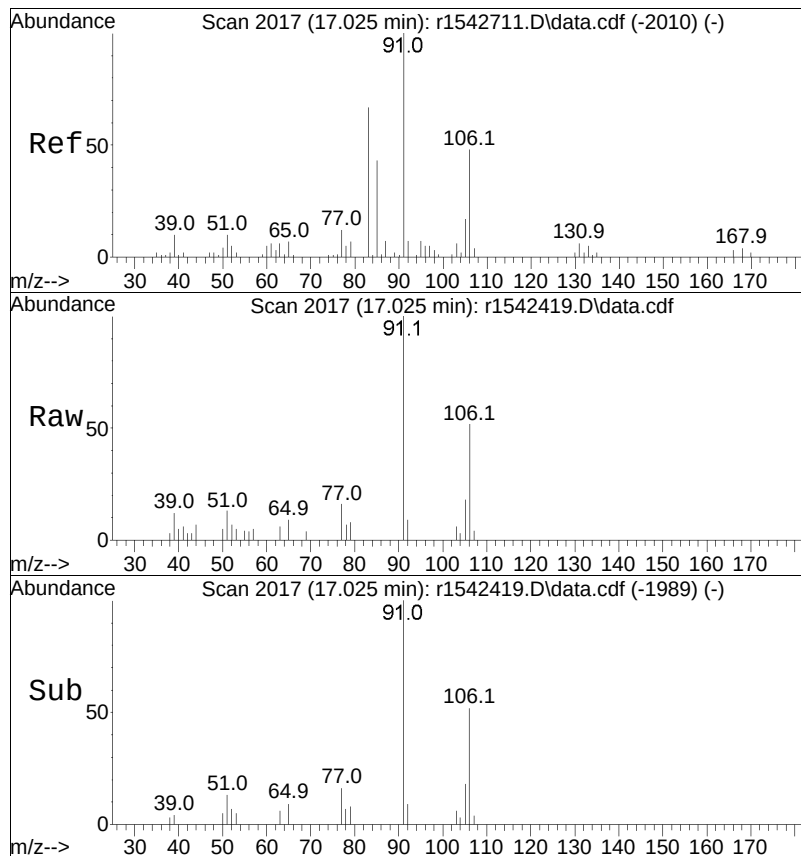




#85
 styrene
 Concen: 0.12 ppbV
 RT: 16.933 min Scan# 2006
 Delta R.T. 0.042 min
 Lab File: r1542419.D
 Acq: 31 Jan 2024 6:22 PM

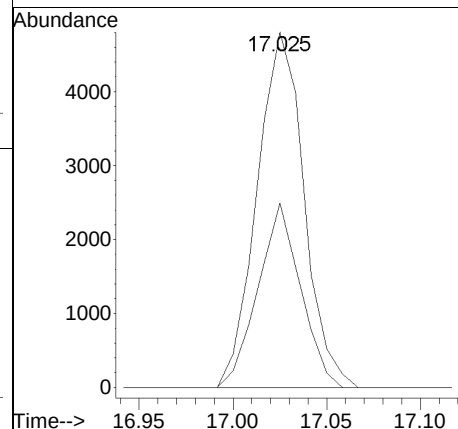
Tgt	Ion:104	Resp:	9929
Ion	Ratio	Lower	Upper
104	100		
103	46.9	34.9	52.3
78	44.6	36.2	54.4





#87
 o-xylene
 Concen: 0.08 ppbV
 RT: 17.025 min Scan# 2017
 Delta R.T. 0.033 min
 Lab File: r1542419.D
 Acq: 31 Jan 2024 6:22 PM

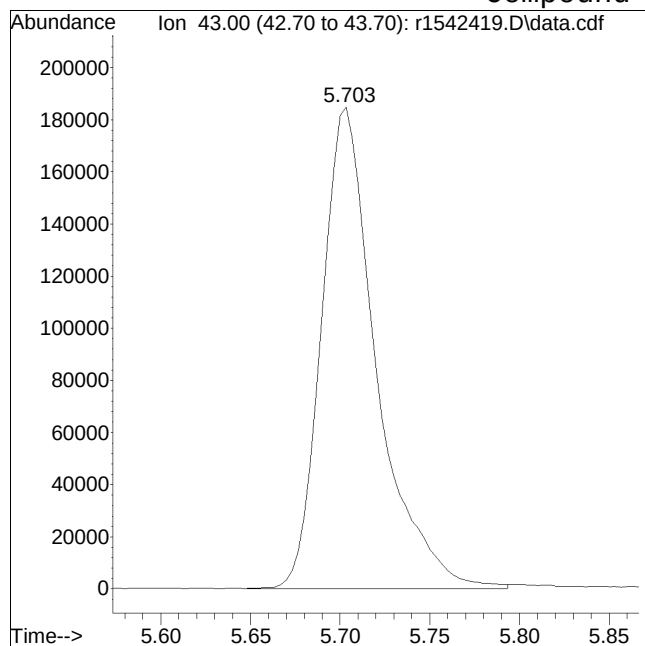
Tgt	Ion	Resp	Lower	Upper
91	100	8363		
106	51.9	40.0	60.0	



Manual Integration Report

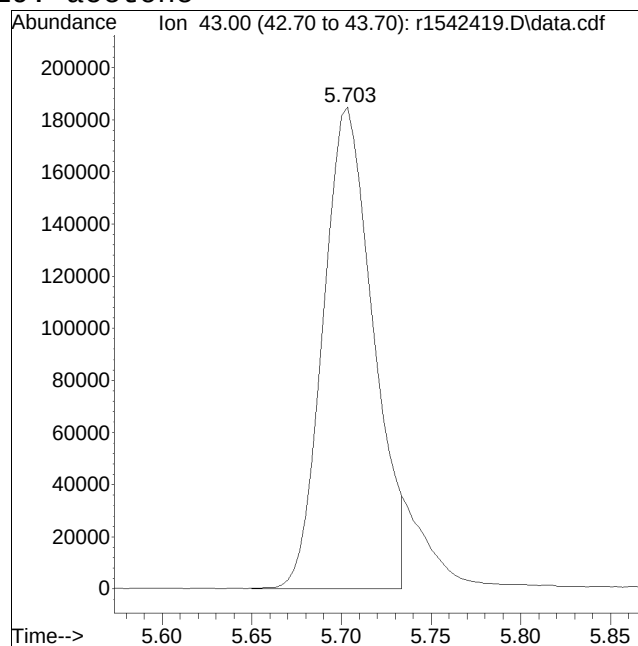
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1542419.D Operator : AIRLAB15:JMB
Date Inj'd : 1/31/2020 0:6: 2 Instrument :
Sample : L2403288-04,3,250,250 Quant Date : 2/1/2024 1:33 pm

Compound #19: acetone



Original Peak Response = 393040

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

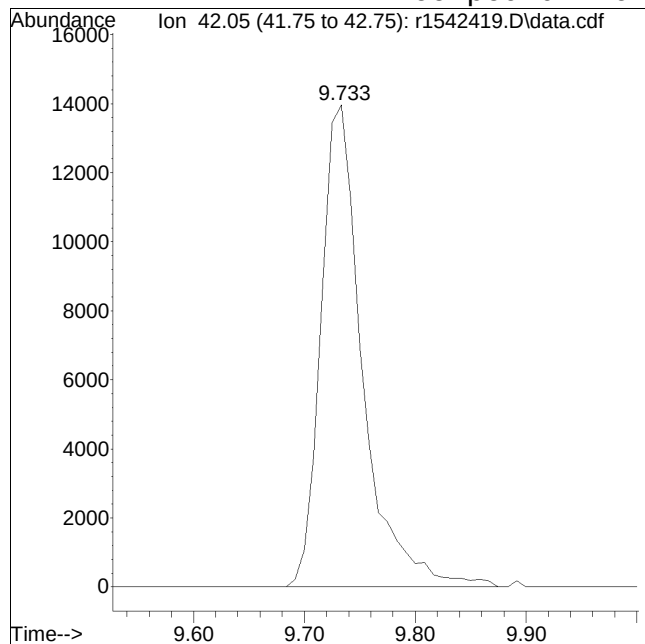


Manual Peak Response = 359803 M6

Manual Integration Report

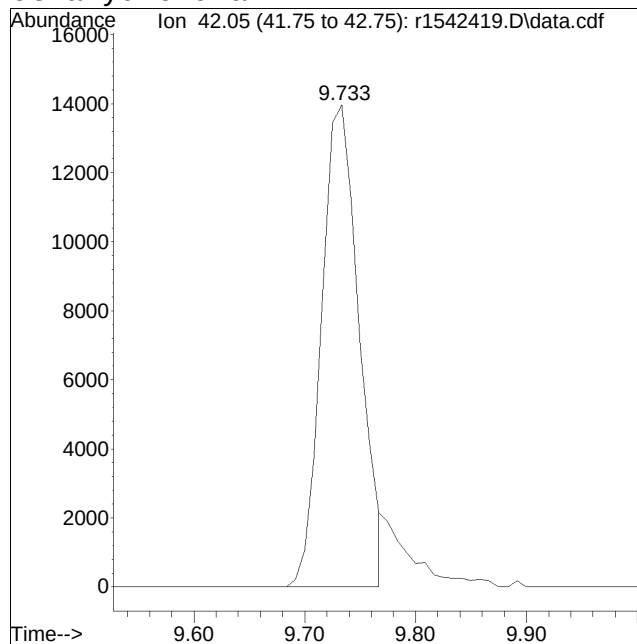
Data Path : 0:\Forensics\Data\Airlab150Method : TFS15_231120.M
Data File : r1542419.D Operator : AIRLAB15:JMB
Date Inj'd : 1/31/2020 0:6: 2 Instrument :
Sample : L2403288-04,3,250,250 Quant Date : 2/1/2024 1:33 pm

Compound #40: Tetrahydrofuran



Original Peak Response = 36624

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



Manual Peak Response = 32950 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542420.D
 Acq On : 31 Jan 2024 7:01 PM
 Operator : AIRLAB15:JMB
 Sample : L2403288-06,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 13:33:55 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131T\r1542413.D
 Sub List : PADEP-T015-IA+_CIS-1,2 - .

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

Internal Standards						
1) bromochloromethane	9.125	49	356262	10.000	ppbV	0.05
Standard Area = 375210			Recovery =		94.95%	
43) 1,4-difluorobenzene	11.340	114	901007	10.000	ppbV #	0.05
Standard Area = 971110			Recovery =		92.78%	
67) chlorobenzene-D5	16.050	54	177612	10.000	ppbV #	0.04
Standard Area = 187857			Recovery =		94.55%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	4.024	85	19974	0.492	ppbV	99
6) chloromethane	4.192	50	12573	0.824	ppbV	98
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	4.564	54	718	0.048	ppbV #	80
13) bromomethane	4.858		0	N.D.		
14) chloroethane	0.000		0	N.D.		
17) vinyl bromide	5.373		0	N.D.		
19) acetone	5.693	43	367513M6	18.276	ppbV	
21) trichlorofluoromethane	5.880	101	7497	0.247	ppbV	94
22) isopropyl alcohol	5.980	45	10121110	399.475	ppbV	98
26) 1,1-dichloroethene	0.000		0	N.D.		
28) methylene chloride	6.726	49	29825	1.086	ppbV	90
29) 3-chloropropene	6.828		0	N.D.		
30) carbon disulfide	7.032	76	3816	0.059	ppbV #	1
31) Freon 113	7.020	101	2650	0.067	ppbV #	83
32) trans-1,2-dichloroethene	7.775		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
37) cis-1,2-dichloroethene	0.000		0	N.D.		
39) chloroform	9.283	83	3826	0.088	ppbV #	94
40) Tetrahydrofuran	9.733	42	9600M6	0.325	ppbV	
42) 1,2-dichloroethane	10.117		0	N.D.		
44) hexane	9.200	57	8759	0.222	ppbV #	1
48) 1,1,1-trichloroethane	0.000		0	N.D.		
50) benzene	10.927	78	20094	0.276	ppbV	99
52) carbon tetrachloride	11.100	117	1875	0.069	ppbV #	96
53) cyclohexane	11.233	56	2809	0.065	ppbV #	80
56) 1,2-dichloropropane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542420.D
 Acq On : 31 Jan 2024 7:01 PM
 Operator : AIRLAB15:JMB
 Sample : L2403288-06,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 13:33:55 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131T\r1542413.D
 Sub List : PADEP-T015-IA+_CIS-1,2 - .

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
58)	1,4-dioxane	0.000		0		N.D.	
59)	trichloroethene	12.147		0		N.D.	
61)	methyl methacrylate	12.387		0		N.D.	
64)	4-methyl-2-pentanone	13.225		0		N.D.	
68)	toluene	14.300	91	23997	0.236	ppbV	97
71)	1,3-dichloropropane	0.000		0		N.D.	
78)	tetrachloroethene	15.442	166	4055	0.099	ppbV #	81
80)	chlorobenzene	16.092		0		N.D.	
81)	ethylbenzene	16.442	91	4777	0.037	ppbV	94
83)	m+p-xylene	16.592	91	13024	0.127	ppbV	97
84)	bromoform	0.000		0		N.D.	
85)	styrene	16.925	104	5571	0.067	ppbV	96
87)	o-xylene	17.025	91	5213	0.051	ppbV	98
91)	isopropylbenzene	17.533		0		N.D.	
97)	1,3,5-trimethylbenzene	18.158		0		N.D.	
99)	1,2,4-trimethylbenzene	18.500	105	4001	0.035	ppbV #	53
103)	1,4-dichlorobenzene	18.700		0		N.D.	
107)	1,2-dichlorobenzene	18.983		0		N.D.	
115)	1,2,4-trichlorobenzene	20.483		0		N.D.	

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

Sub List : PADEP-T015-IA+_CIS-1,2 - .\2024\01\0131T\r1542413.D

Data Path : 0:\Forensics\Data\AirLab15\2024\01\0131T\

Data File : r1542420.D

Acq On : 31 Jan 2024 7:01 PM

Operator : AIRLAB15:JMB

Sample : L2403288-06,3,250,250

Misc : WG1880230,ICAL20574

ALS Vial : 0 Sample Multiplier: 1

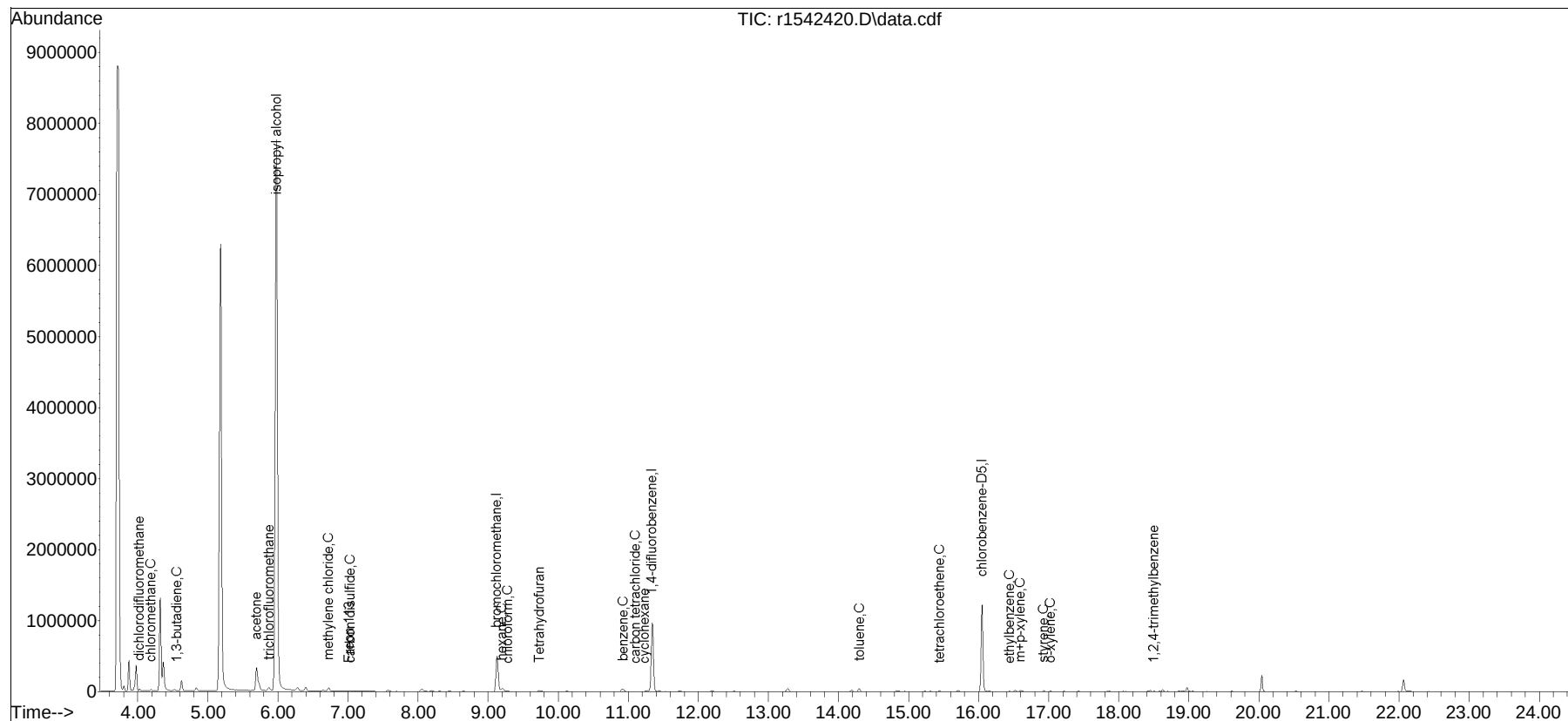
Quant Time: Feb 01 13:33:55 2024

Quant Method : 0:\Forensics\Data\AirLab15\2024\01\0131T\TFS15_231120.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

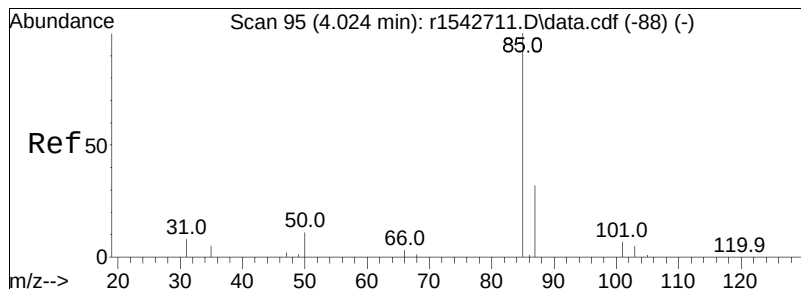
QLast Update : Tue Nov 21 15:43:21 2023

Response via : Initial Calibration



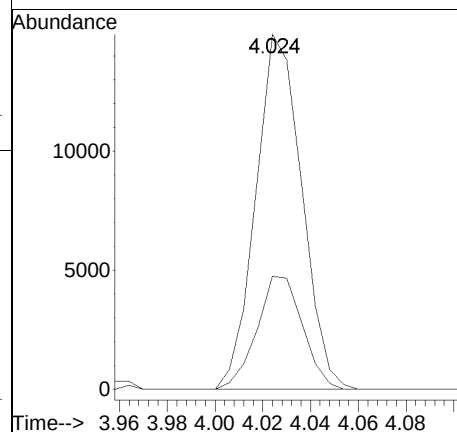
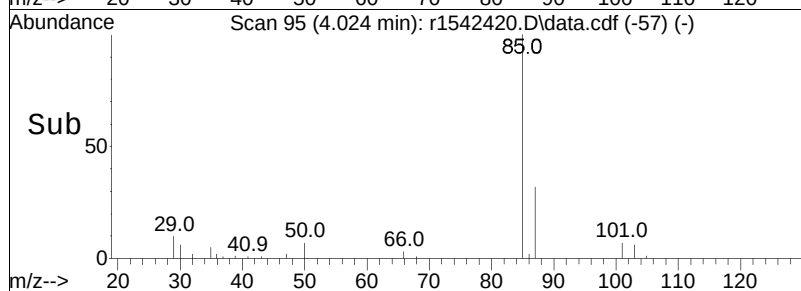
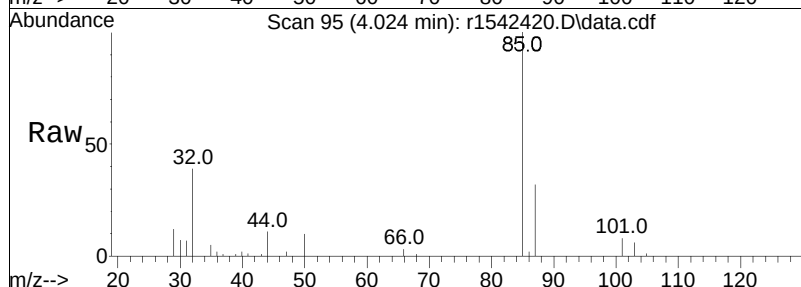
TFS15_231120.M Wed Feb 14 10:35:46 2024

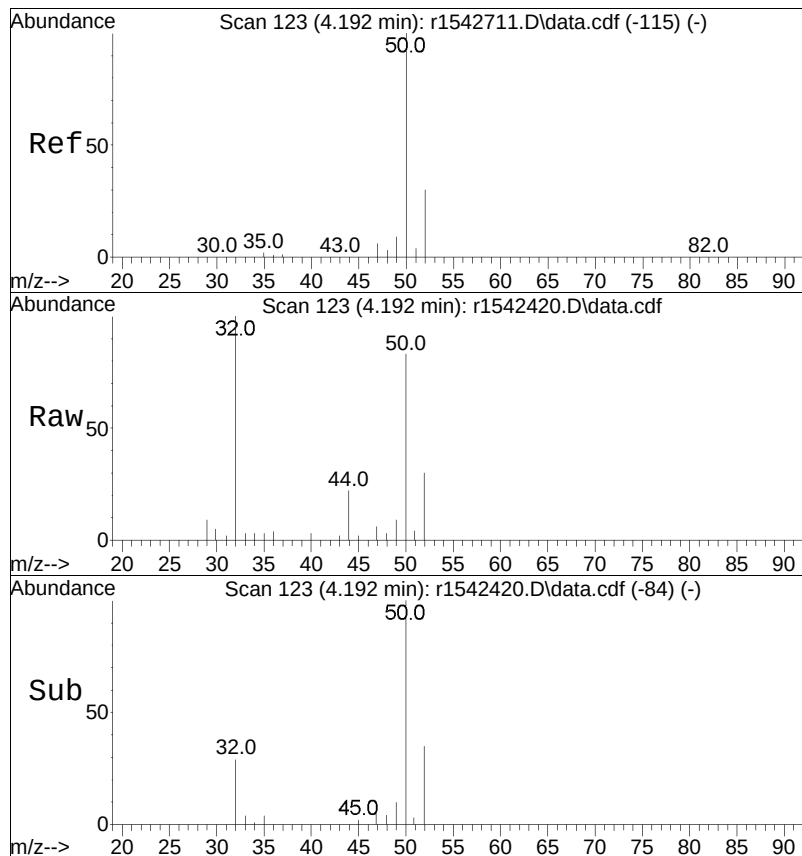
Page: 3



#5
dichlorodifluoromethane
Concen: 0.49 ppbV
RT: 4.024 min Scan# 95
Delta R.T. 0.030 min
Lab File: r1542420.D
Acq: 31 Jan 2024 7:01 PM

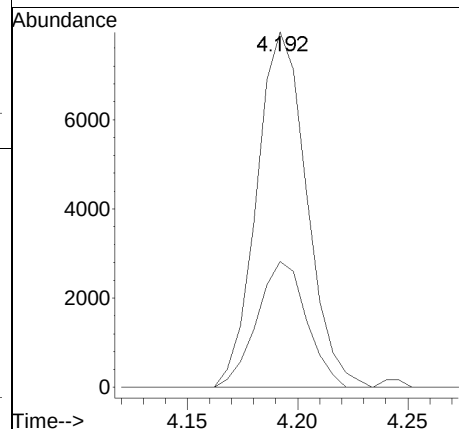
Tgt Ion: 85 Resp: 19974
Ion Ratio Lower Upper
85 100
87 31.8 26.1 39.1

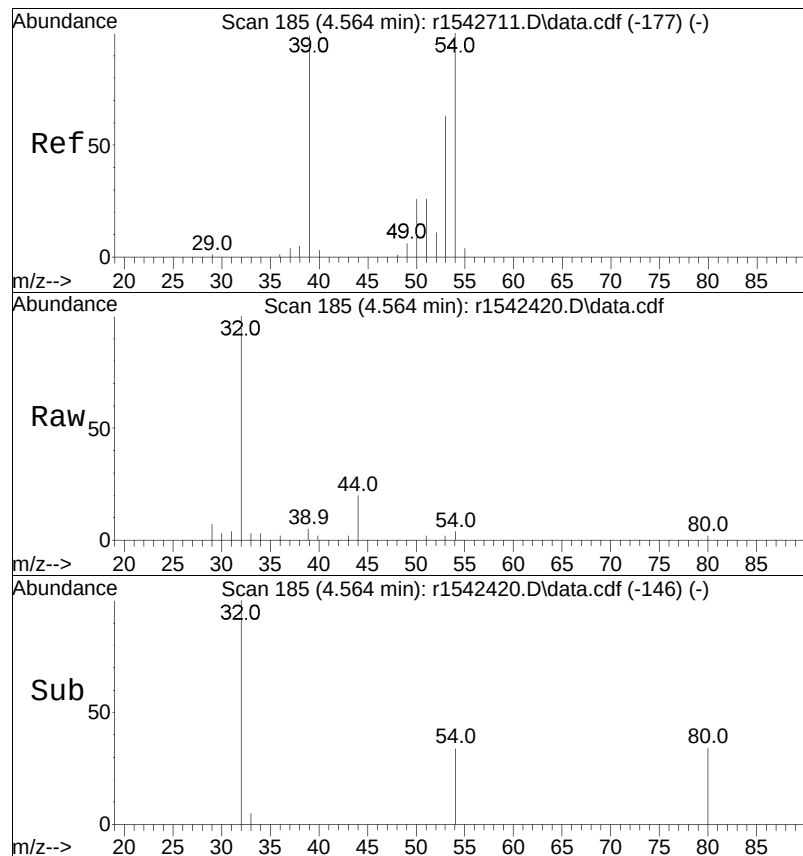




#6
 chloromethane
 Concen: 0.82 ppbV
 RT: 4.192 min Scan# 123
 Delta R.T. 0.036 min
 Lab File: r1542420.D
 Acq: 31 Jan 2024 7:01 PM

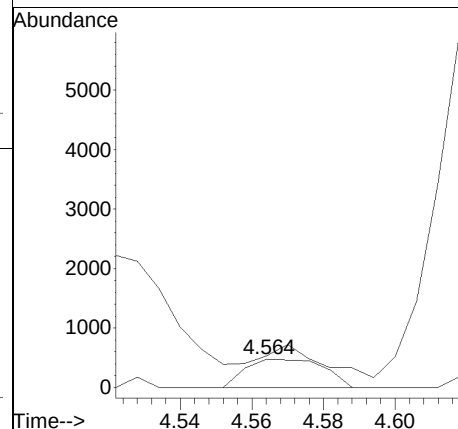
Tgt Ion:	50	Resp:	12573
Ion Ratio	Lower	Upper	
50	100		
52	35.4	27.4	41.2

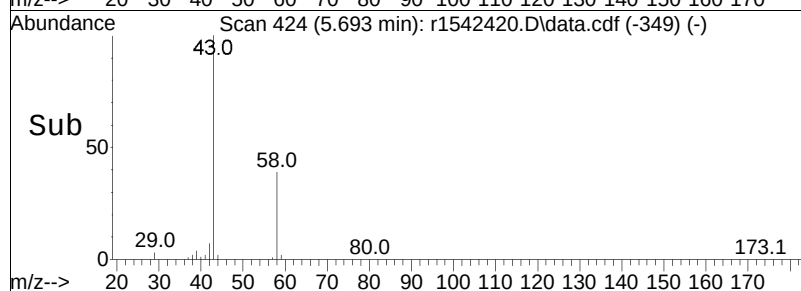
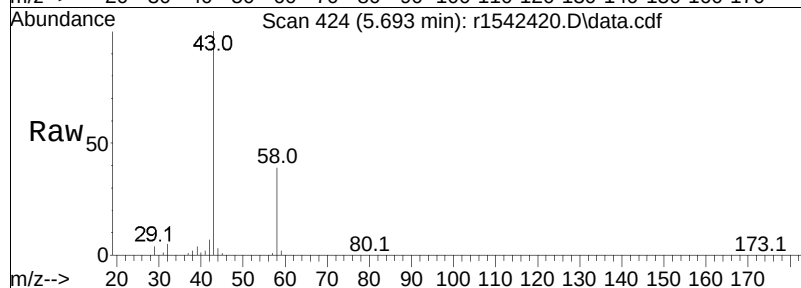
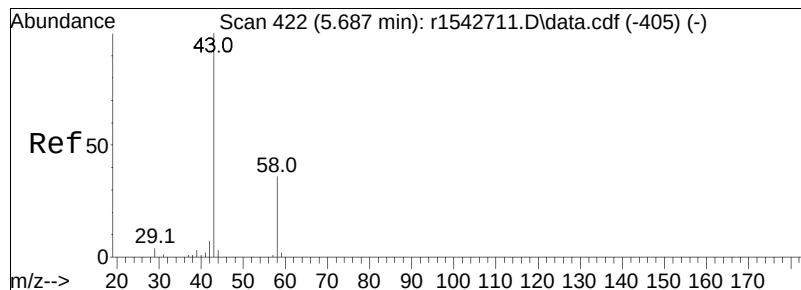




#10
 1,3-butadiene
 Concen: 0.05 ppbV
 RT: 4.564 min Scan# 185
 Delta R.T. 0.036 min
 Lab File: r1542420.D
 Acq: 31 Jan 2024 7:01 PM

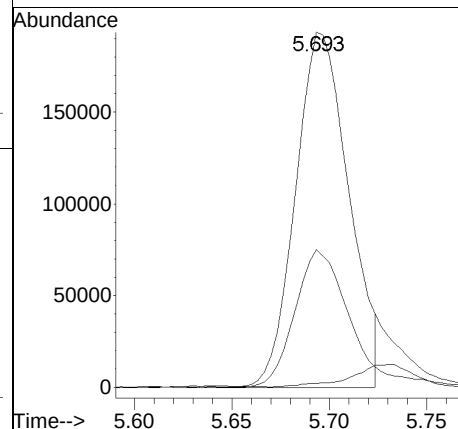
Tgt Ion	Ratio	Lower	Upper
54	100		
39	111.8	73.8	110.8#

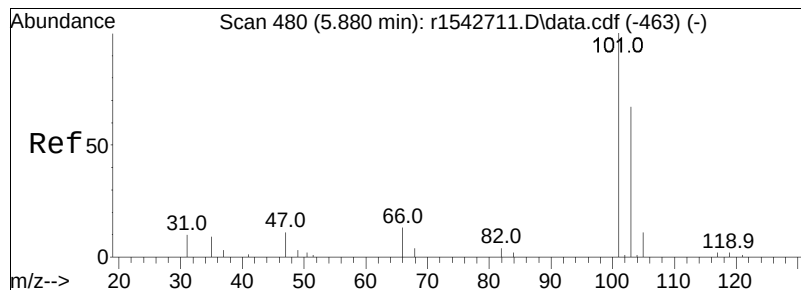




#19
acetone
Concen: 18.28 ppbV m
RT: 5.693 min Scan# 424
Delta R.T. 0.050 min
Lab File: r1542420.D
Acq: 31 Jan 2024 7:01 PM

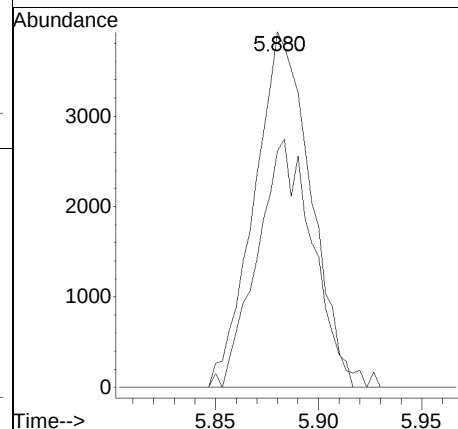
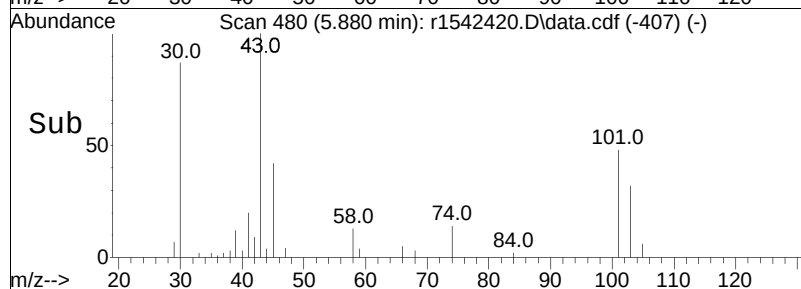
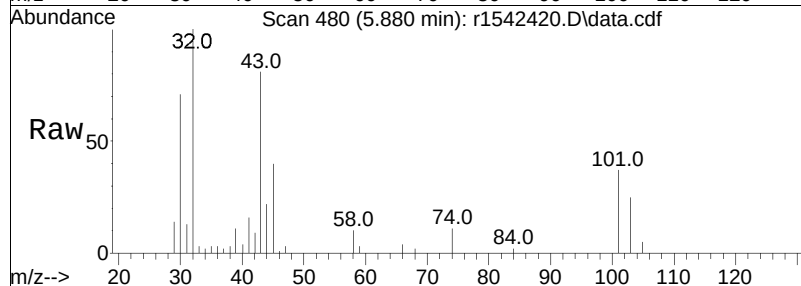
Tgt Ion	Ratio	Lower	Upper
43	100		
58	38.8	39.0	58.4#
57	1.2	0.9	1.3

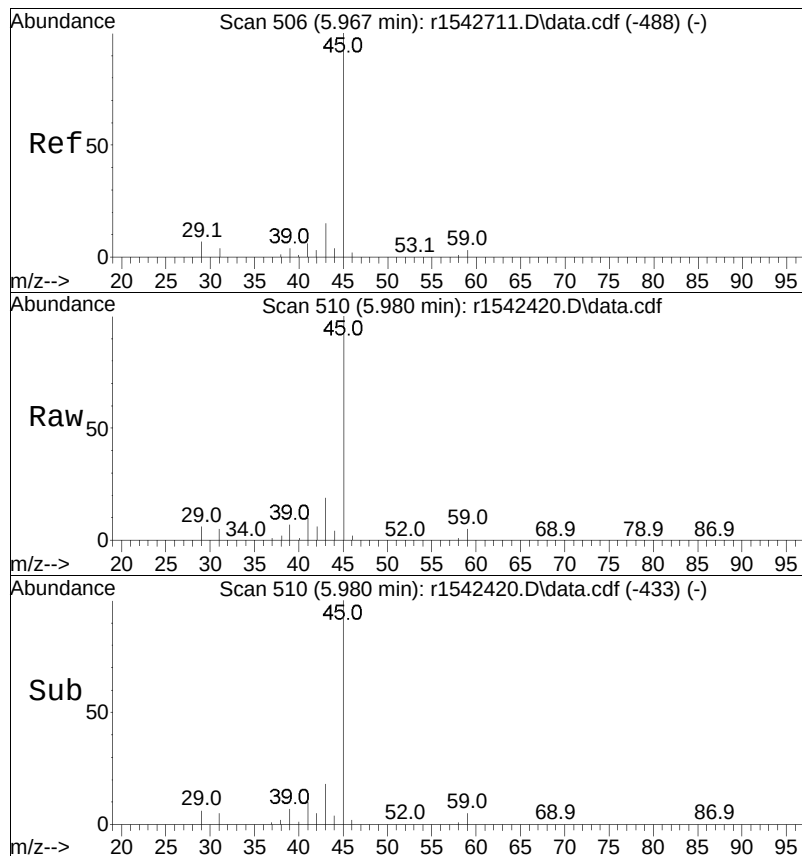




#21
trichlorofluoromethane
Concen: 0.25 ppbV
RT: 5.880 min Scan# 480
Delta R.T. 0.043 min
Lab File: r1542420.D
Acq: 31 Jan 2024 7:01 PM

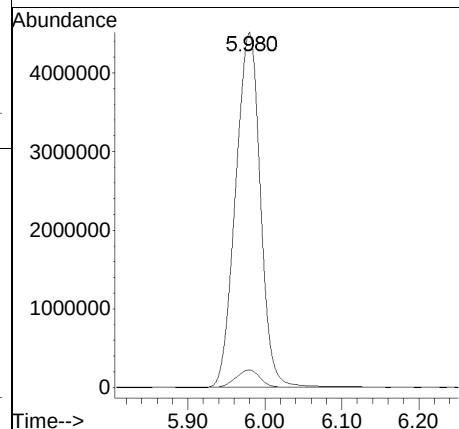
Tgt Ion	Ratio	Lower	Upper
101	100		
103	66.6	49.4	74.0

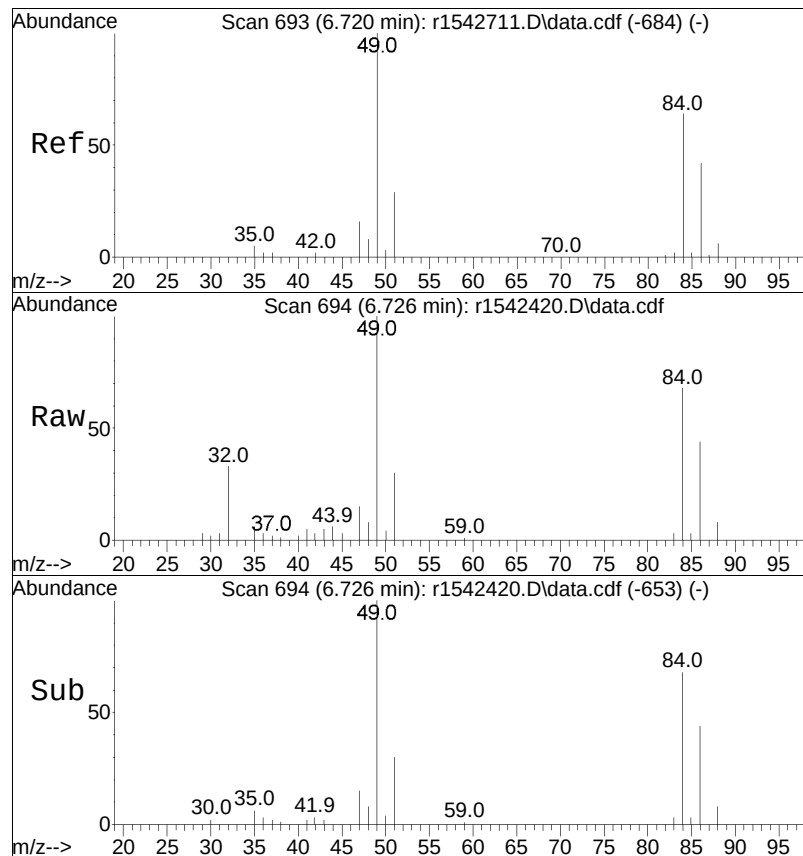




#22
 isopropyl alcohol
 Concen: 399.47 ppbV
 RT: 5.980 min Scan# 510
 Delta R.T. 0.057 min
 Lab File: r1542420.D
 Acq: 31 Jan 2024 7:01 PM

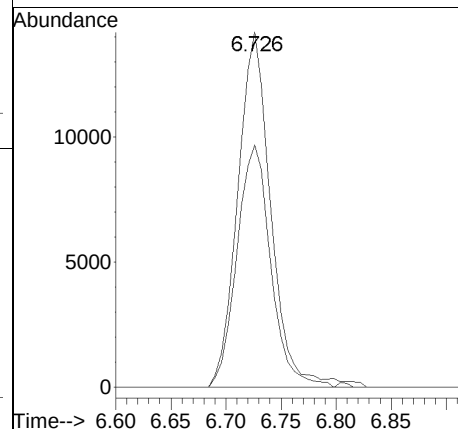
Tgt Ion	Ratio	Lower	Upper
45	100		
59	4.9	4.6	6.8

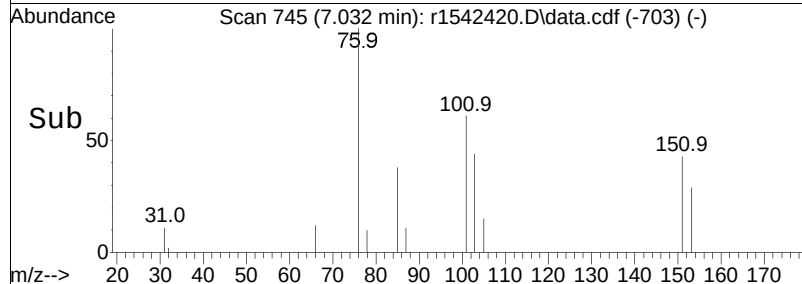
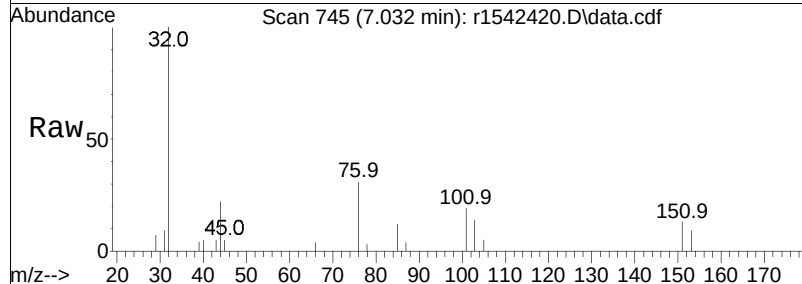
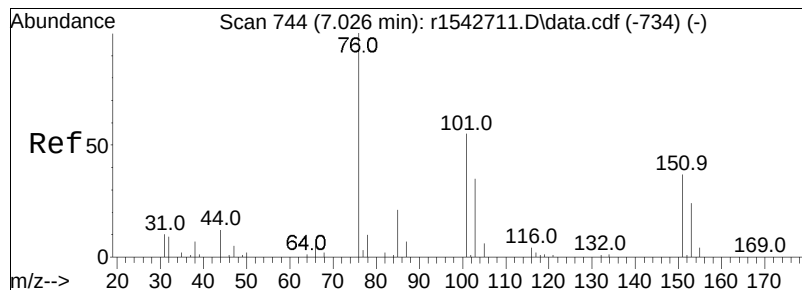




#28
 methylene chloride
 Concen: 1.09 ppbV
 RT: 6.726 min Scan# 694
 Delta R.T. 0.048 min
 Lab File: r1542420.D
 Acq: 31 Jan 2024 7:01 PM

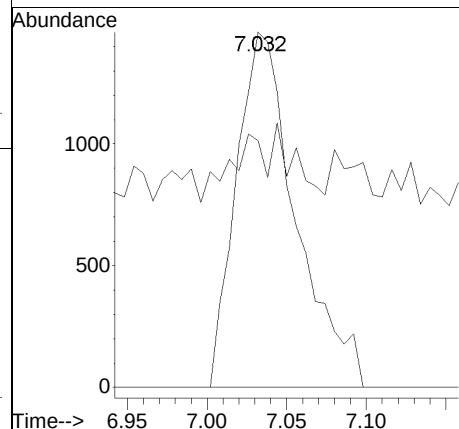
Tgt Ion:	49	84	Ratio	Lower	Upper
Resp:	29825				
Ion Ratio	100	68.2			
			61.2	91.8	

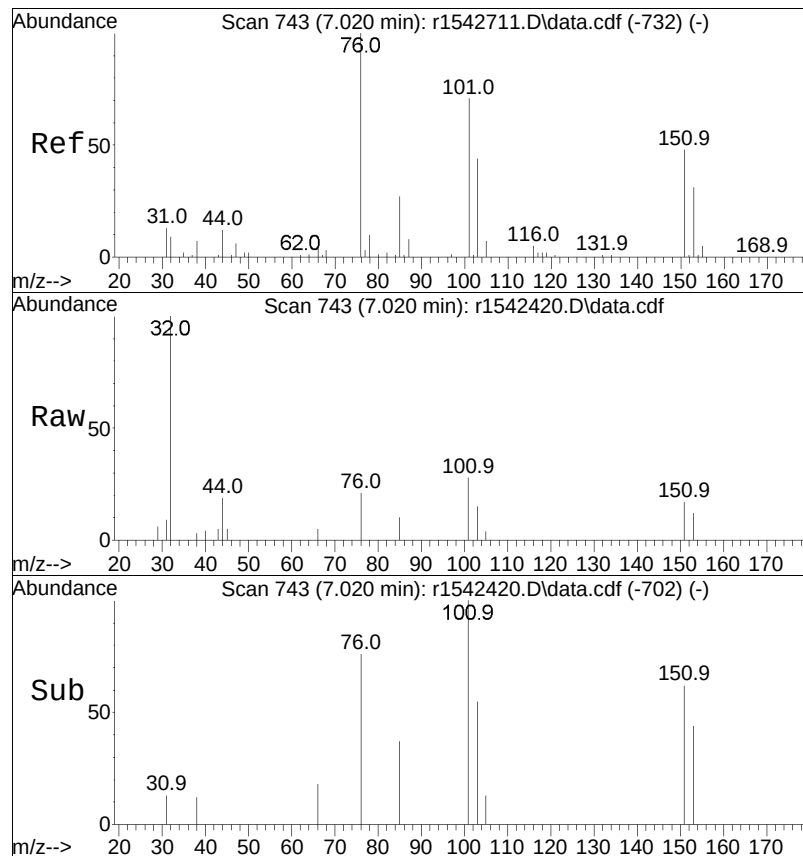




#30
 carbon disulfide
 Concen: 0.06 ppbV
 RT: 7.032 min Scan# 745
 Delta R.T. 0.054 min
 Lab File: r1542420.D
 Acq: 31 Jan 2024 7:01 PM

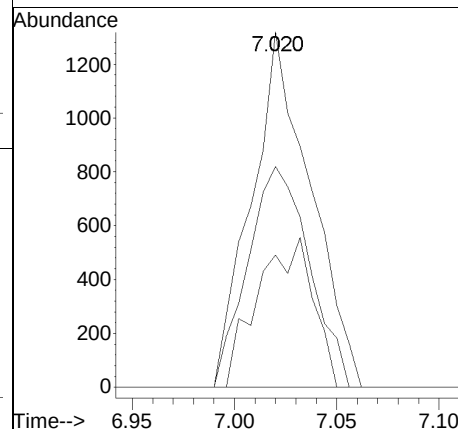
Tgt Ion	Ratio	Lower	Upper
76	100		
44	69.5	7.8	11.6#

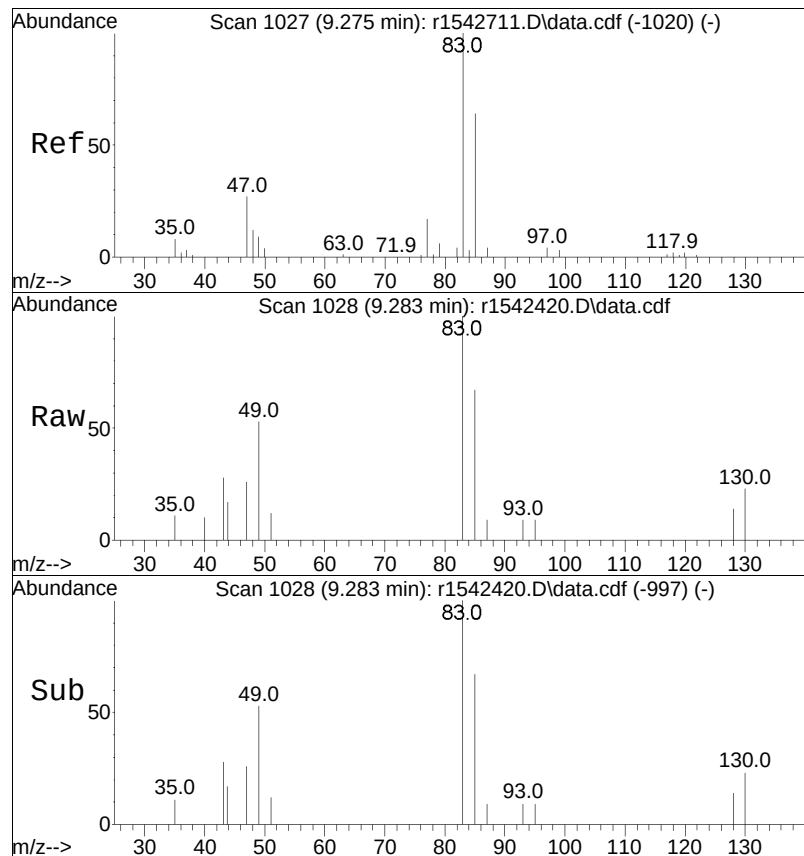




#31
 Freon 113
 Concen: 0.07 ppbV
 RT: 7.020 min Scan# 743
 Delta R.T. 0.048 min
 Lab File: r1542420.D
 Acq: 31 Jan 2024 7:01 PM

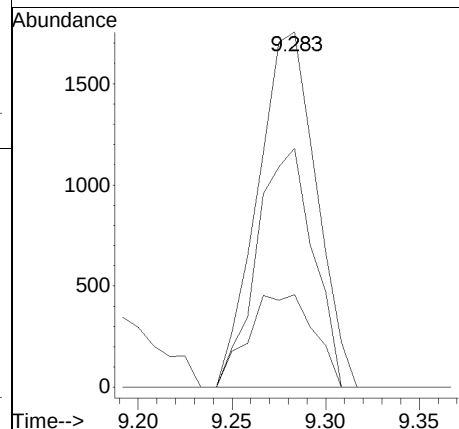
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	2650		
85	37.2		35.3	52.9
151	62.2		63.8	95.8#

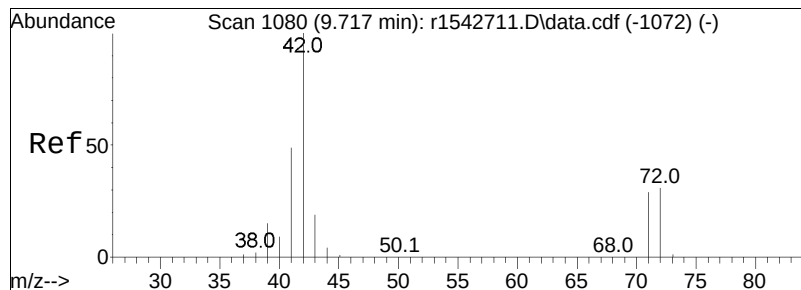




#39
 chloroform
 Concen: 0.09 ppbV
 RT: 9.283 min Scan# 1028
 Delta R.T. 0.058 min
 Lab File: r1542420.D
 Acq: 31 Jan 2024 7:01 PM

Tgt	Ion: 83	Resp:	3826
Ion	Ratio	Lower	Upper
83	100		
85	67.3	51.5	77.3
47	26.1	15.9	23.9#





#40

Tetrahydrofuran

Concen: 0.32 ppbV m

RT: 9.733 min Scan# 1082

Delta R.T. 0.067 min

Lab File: r1542420.D

Acq: 31 Jan 2024 7:01 PM

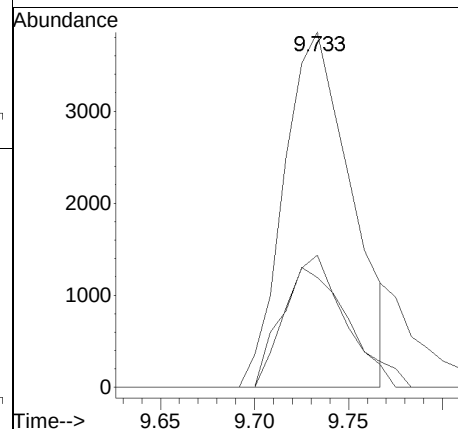
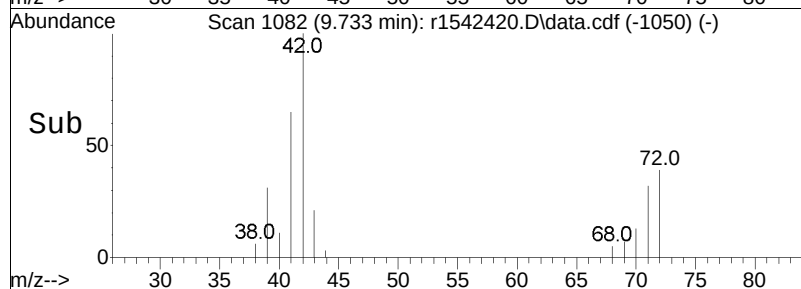
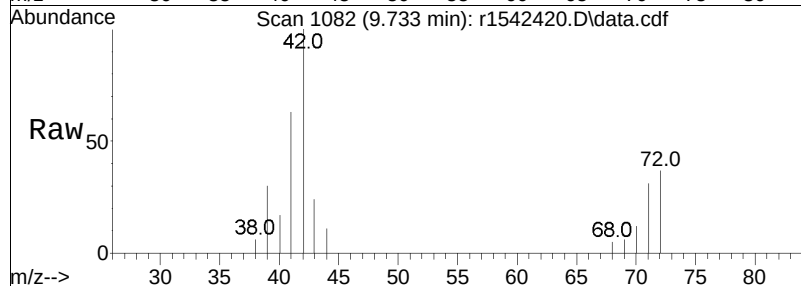
Tgt Ion: 42 Resp: 9600

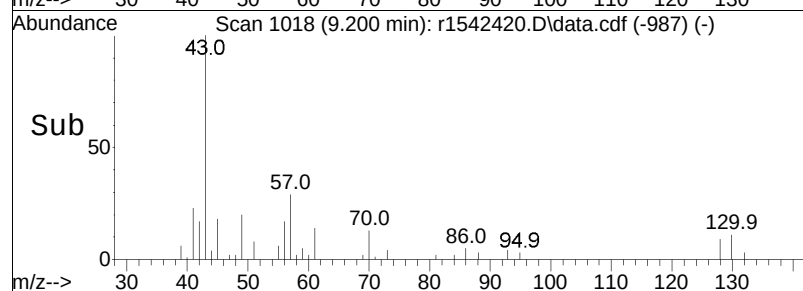
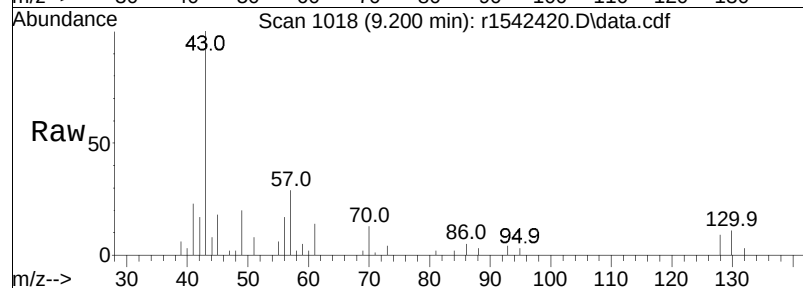
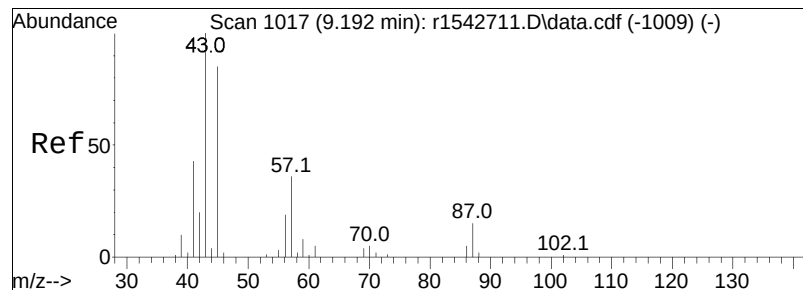
Ion Ratio Lower Upper

42 100

71 30.9 30.6 46.0

72 37.2 32.5 48.7





#44

hexane

Concen: 0.22 ppbV

RT: 9.200 min Scan# 1018

Delta R.T. 0.058 min

Lab File: r1542420.D

Acq: 31 Jan 2024 7:01 PM

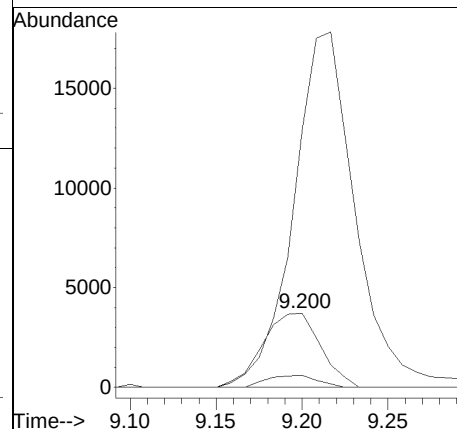
Tgt Ion: 57 Resp: 8759

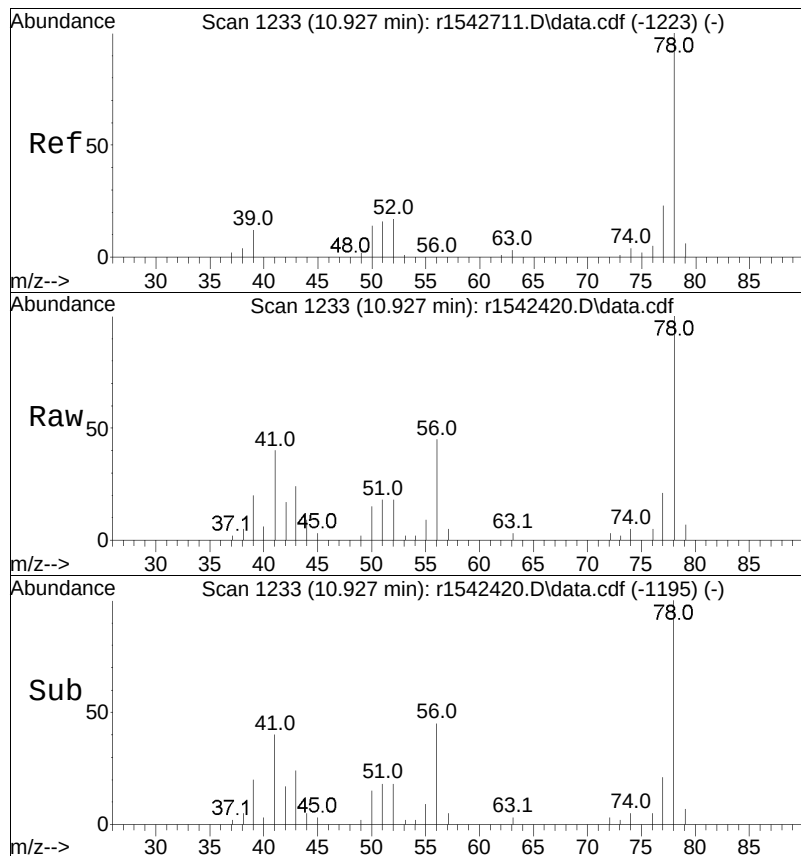
Ion Ratio Lower Upper

57 100

43 344.5 146.8 220.2#

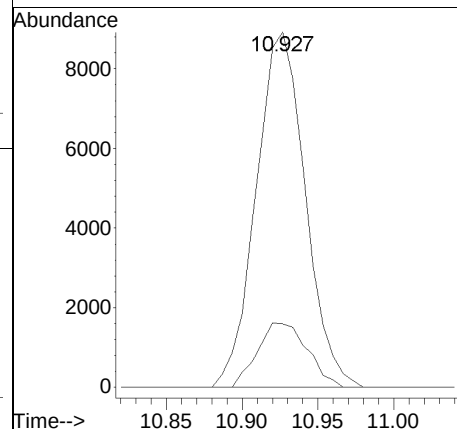
86 16.4 12.7 19.1

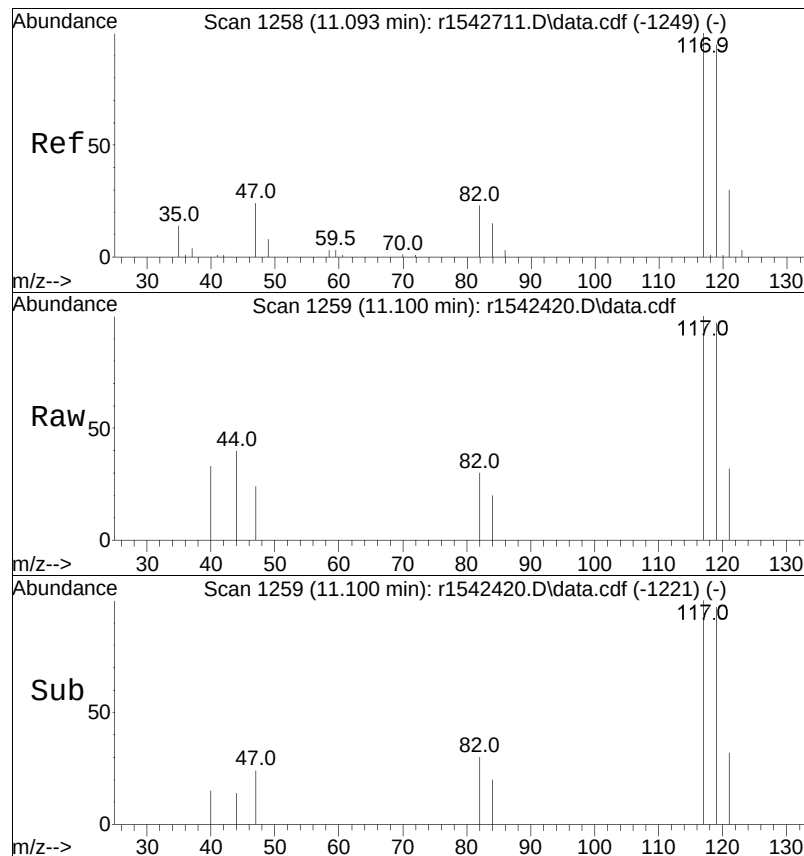




#50
benzene
Concen: 0.28 ppbV
RT: 10.927 min Scan# 1233
Delta R.T. 0.053 min
Lab File: r1542420.D
Acq: 31 Jan 2024 7:01 PM

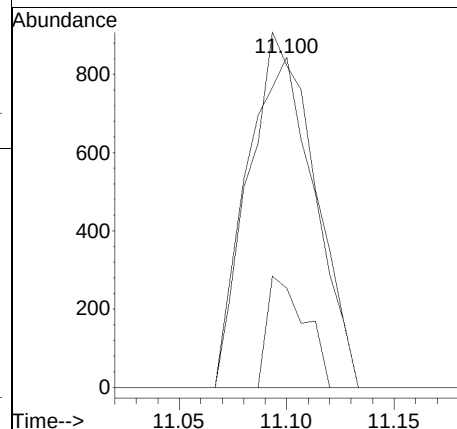
Tgt	Ion	Ratio	Lower	Upper
78	100			
52	17.9	14.1	21.1	

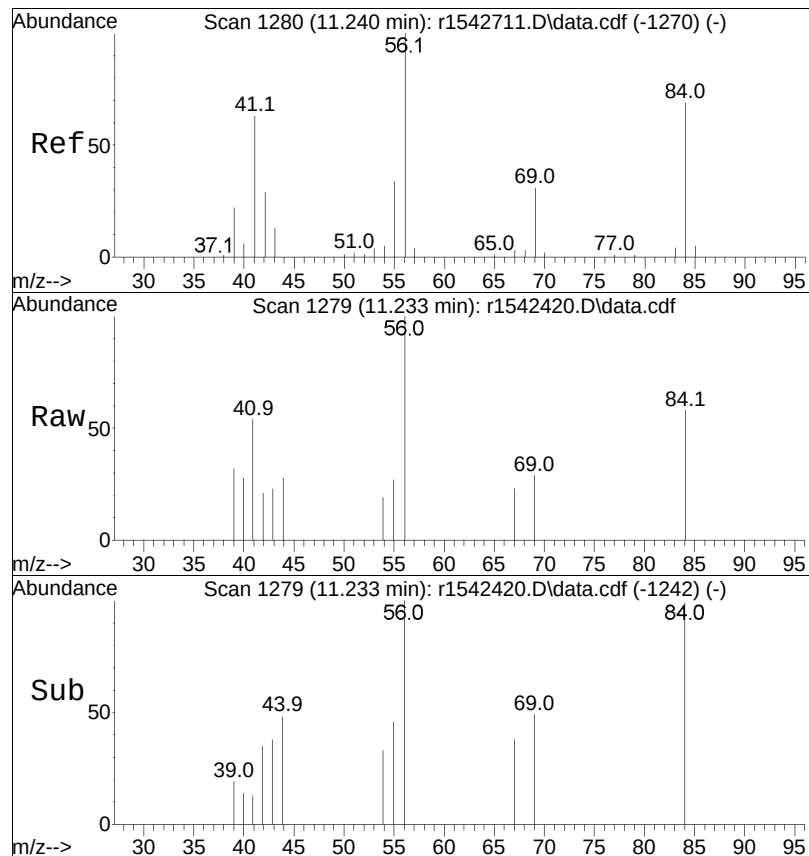




#52
 carbon tetrachloride
 Concen: 0.07 ppbV
 RT: 11.100 min Scan# 1259
 Delta R.T. 0.053 min
 Lab File: r1542420.D
 Acq: 31 Jan 2024 7:01 PM

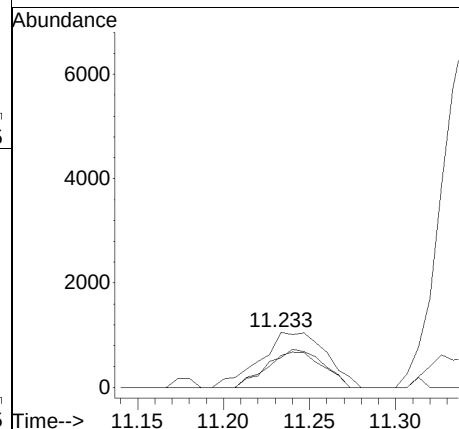
Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.4	77.1	115.7
82	30.1	17.2	25.8

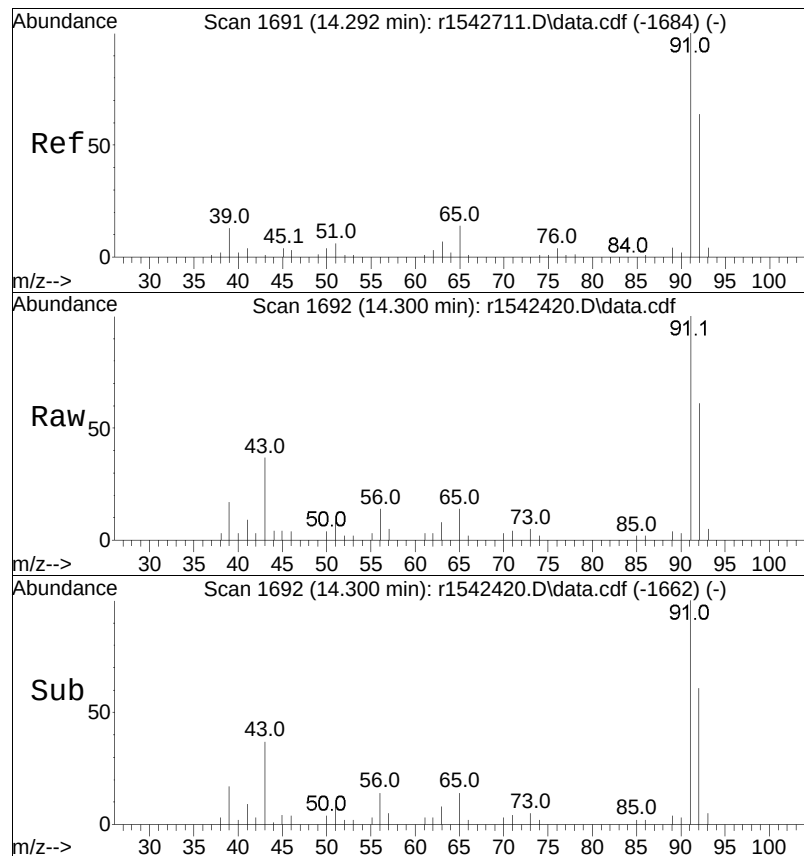




#53
cyclohexane
Concen: 0.07 ppbV
RT: 11.233 min Scan# 1279
Delta R.T. 0.047 min
Lab File: r1542420.D
Acq: 31 Jan 2024 7:01 PM

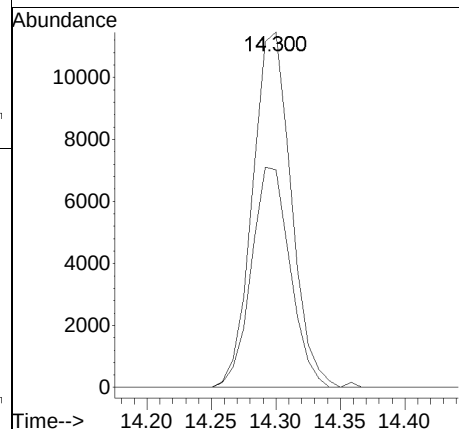
Tgt	Ion: 56	Resp:	2809
Ion	Ratio	Lower	Upper
56	100		
84	58.1	60.2	90.2#
41	54.0	33.5	50.3#

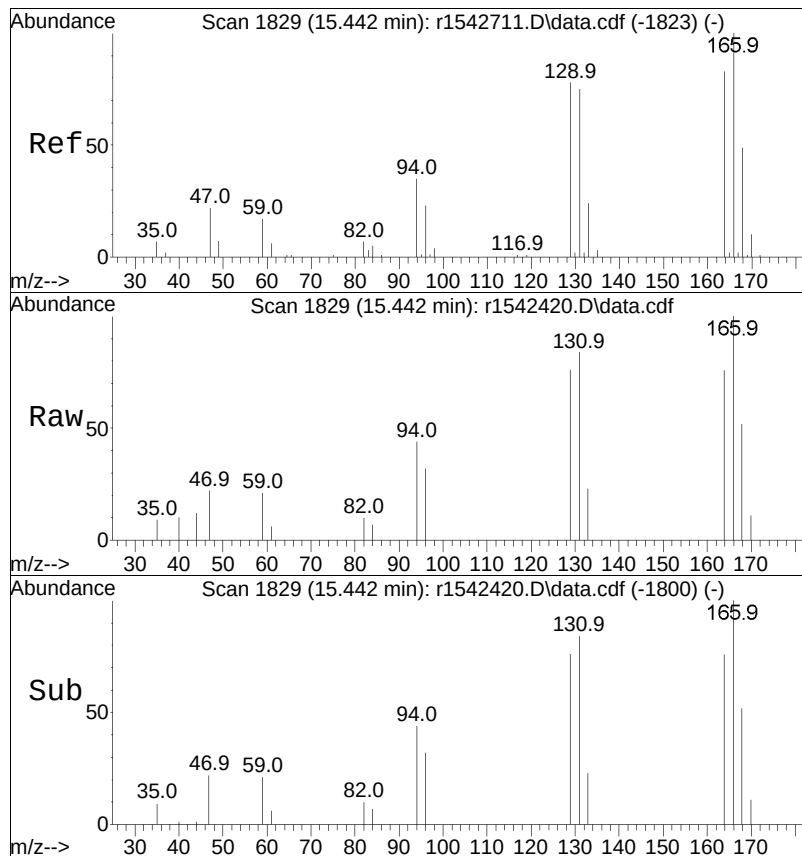




#68
 toluene
 Concen: 0.24 ppbV
 RT: 14.300 min Scan# 1692
 Delta R.T. 0.050 min
 Lab File: r1542420.D
 Acq: 31 Jan 2024 7:01 PM

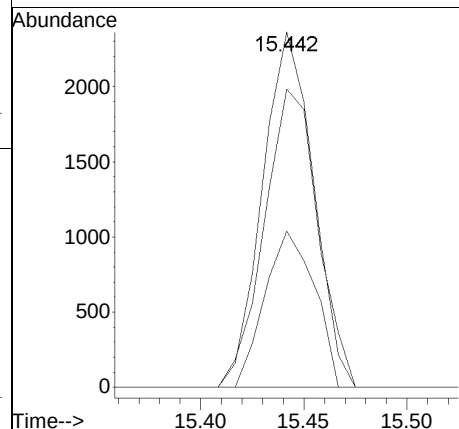
Tgt Ion:	91	Resp:	23997
Ion Ratio	Lower	Upper	
91	100		
92	61.2	51.0	76.4

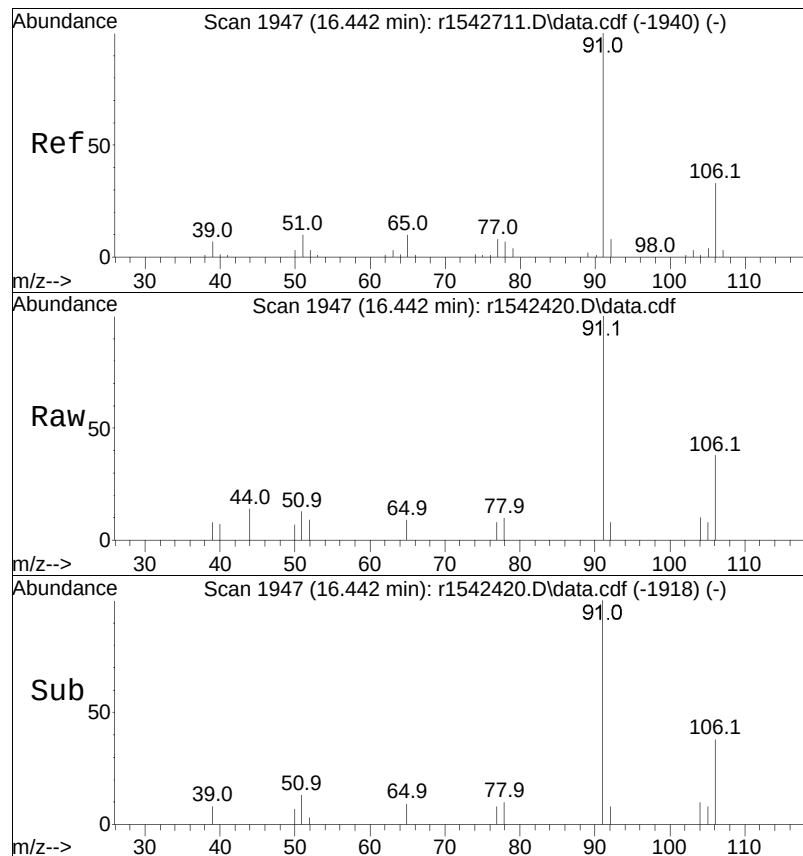




#78
 tetrachloroethene
 Concen: 0.10 ppbV
 RT: 15.442 min Scan# 1829
 Delta R.T. 0.042 min
 Lab File: r1542420.D
 Acq: 31 Jan 2024 7:01 PM

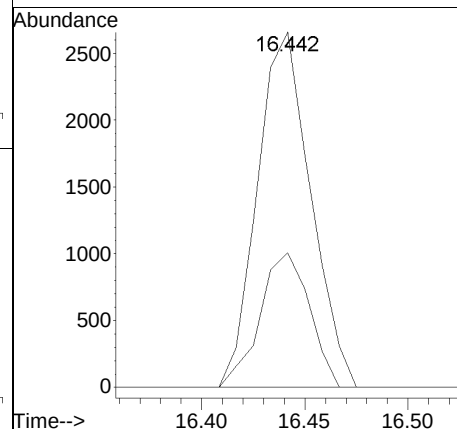
Tgt	Ion:166	Resp:	4055
Ion	Ratio	Lower	Upper
166	100		
131	84.0	55.6	83.4#
94	44.0	25.4	38.2#

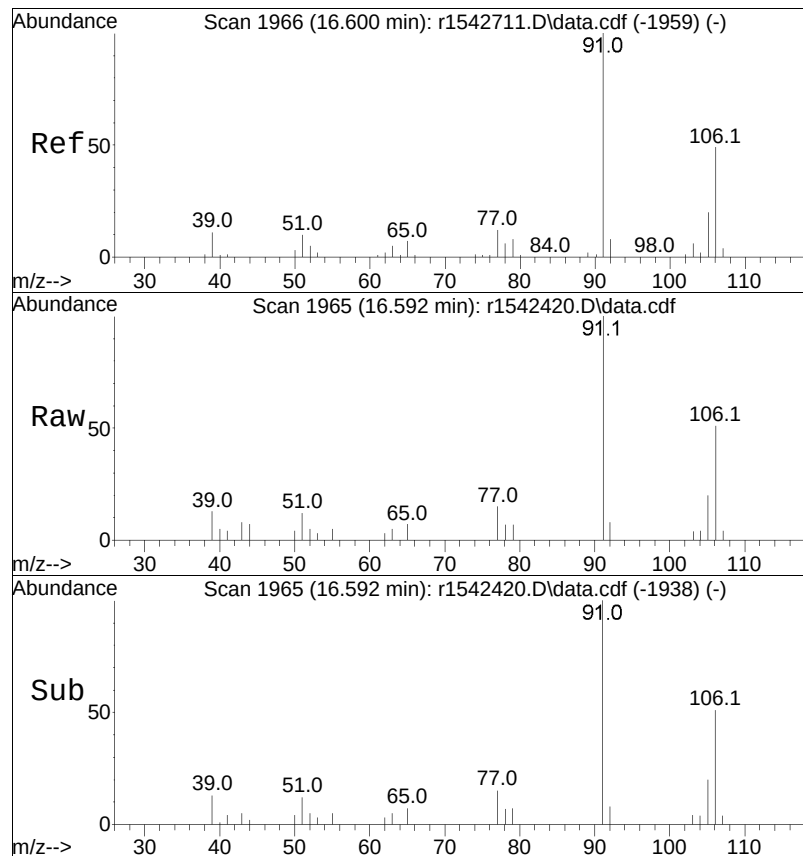




#81
ethylbenzene
Concen: 0.04 ppbV
RT: 16.442 min Scan# 1947
Delta R.T. 0.042 min
Lab File: r1542420.D
Acq: 31 Jan 2024 7:01 PM

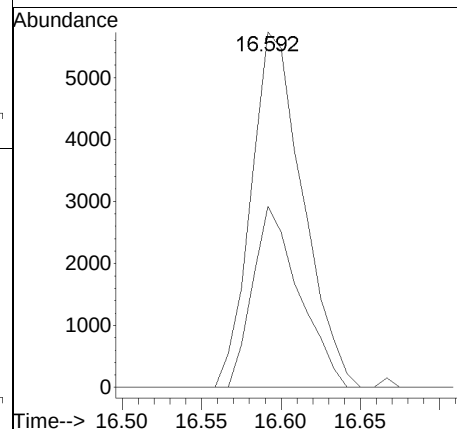
Tgt	Ion	Resp	Lower	Upper
91	100	4777		
106	37.9	27.7	41.5	

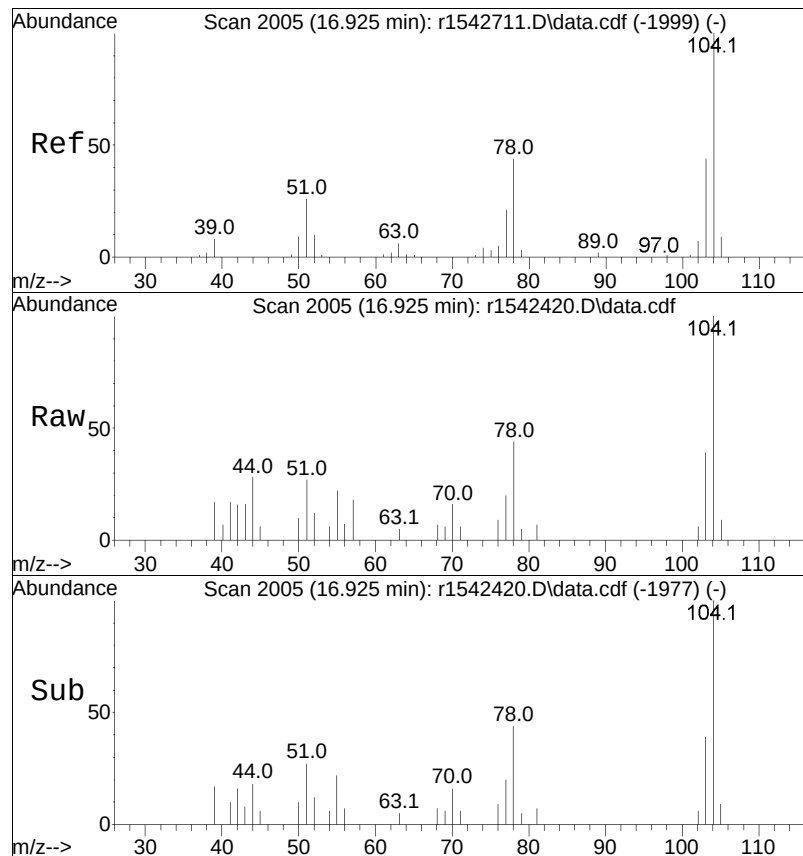




#83
 m+p-xylene
 Concen: 0.13 ppbV
 RT: 16.592 min Scan# 1965
 Delta R.T. 0.025 min
 Lab File: r1542420.D
 Acq: 31 Jan 2024 7:01 PM

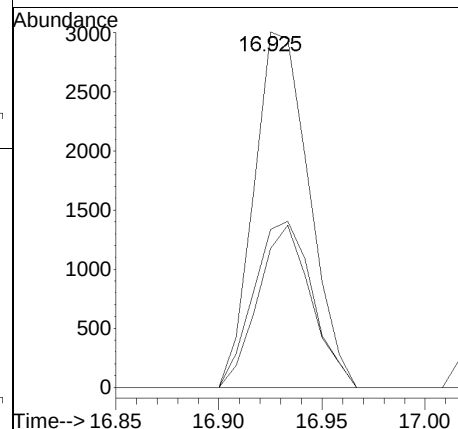
Tgt	Ion	Resp	Lower	Upper
91	100	13024		
106	51.0	42.7	64.1	

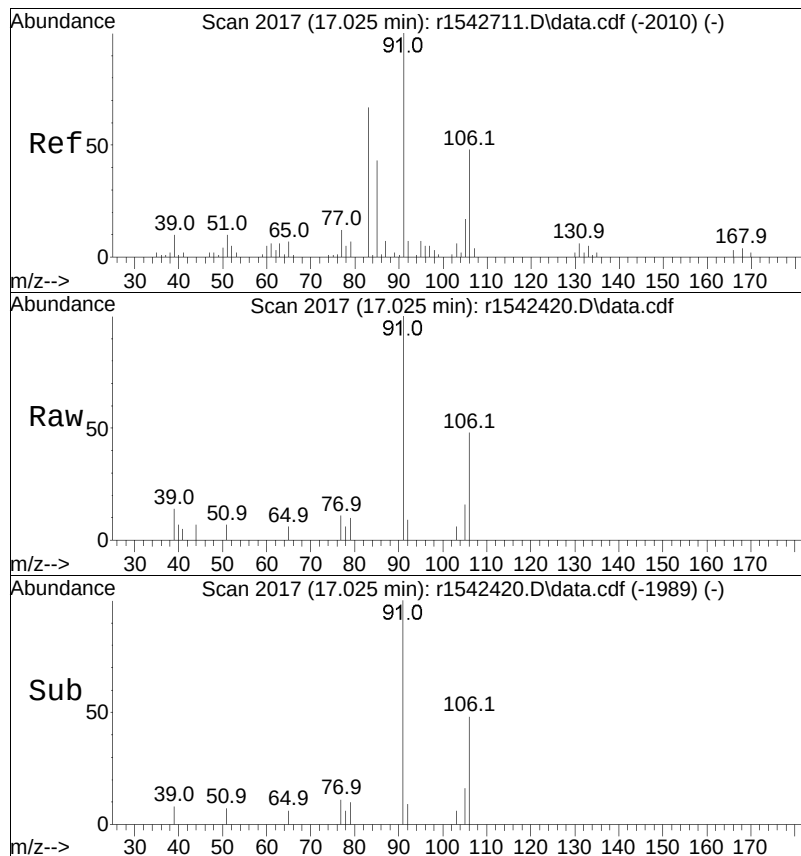




#85
styrene
Concen: 0.07 ppbV
RT: 16.925 min Scan# 2005
Delta R.T. 0.033 min
Lab File: r1542420.D
Acq: 31 Jan 2024 7:01 PM

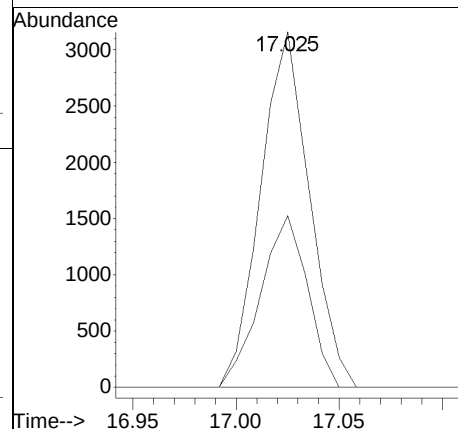
Tgt Ion	Ratio	Lower	Upper
104	100		
103	39.1	34.9	52.3
78	44.4	36.2	54.4

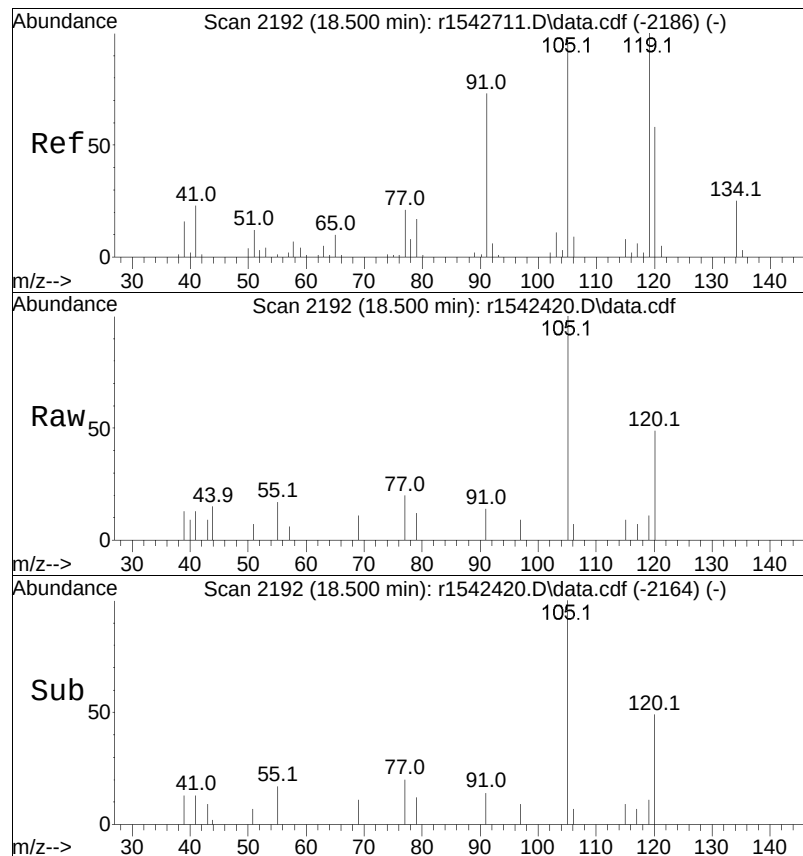




#87
 o-xylene
 Concen: 0.05 ppbV
 RT: 17.025 min Scan# 2017
 Delta R.T. 0.033 min
 Lab File: r1542420.D
 Acq: 31 Jan 2024 7:01 PM

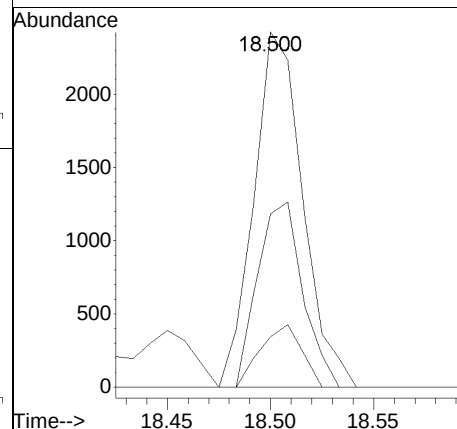
Tgt Ion	Ratio	Lower	Upper
91	100		
106	48.3	40.0	60.0





#99
 1,2,4-trimethylbenzene
 Concen: 0.03 ppbV
 RT: 18.500 min Scan# 2192
 Delta R.T. 0.033 min
 Lab File: r1542420.D
 Acq: 31 Jan 2024 7:01 PM

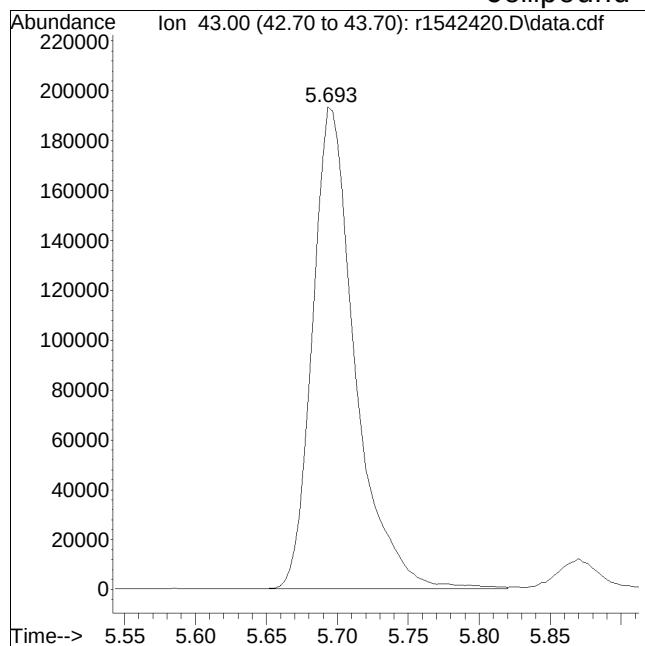
Tgt Ion	Ratio	Lower	Upper
105	100		
120	48.8	51.8	77.6#
91	14.2	58.3	87.5#



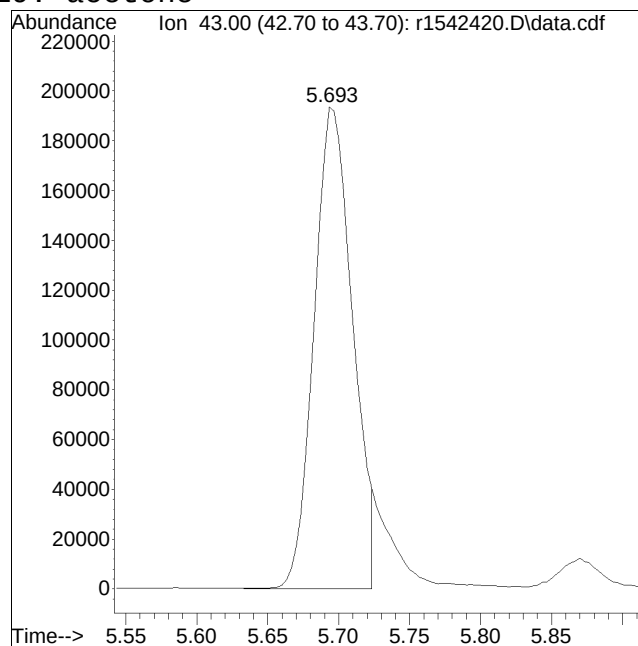
Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1542420.D Operator : AIRLAB15:JMB
Date Inj'd : 1/31/2020 0:7: 1 Instrument :
Sample : L2403288-06,3,250,250 Quant Date : 2/1/2024 1:33 pm

Compound #19: acetone



Original Peak Response = 404925



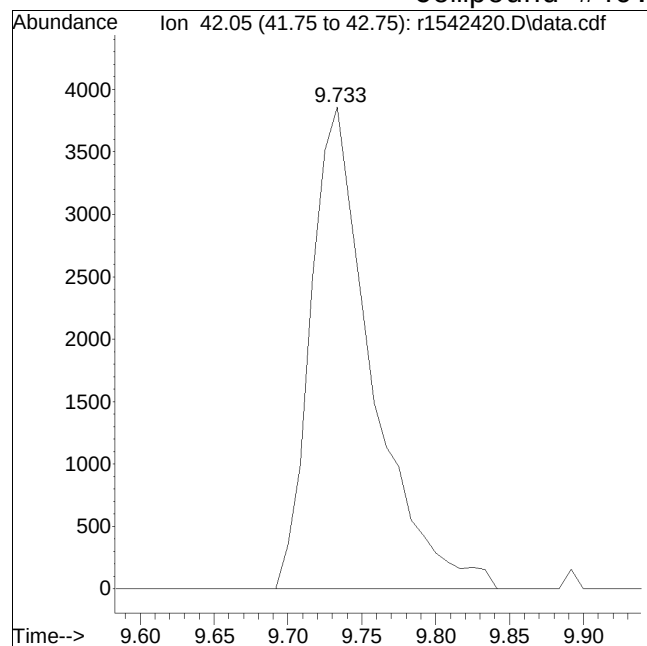
Manual Peak Response = 367513 M6

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

Manual Integration Report

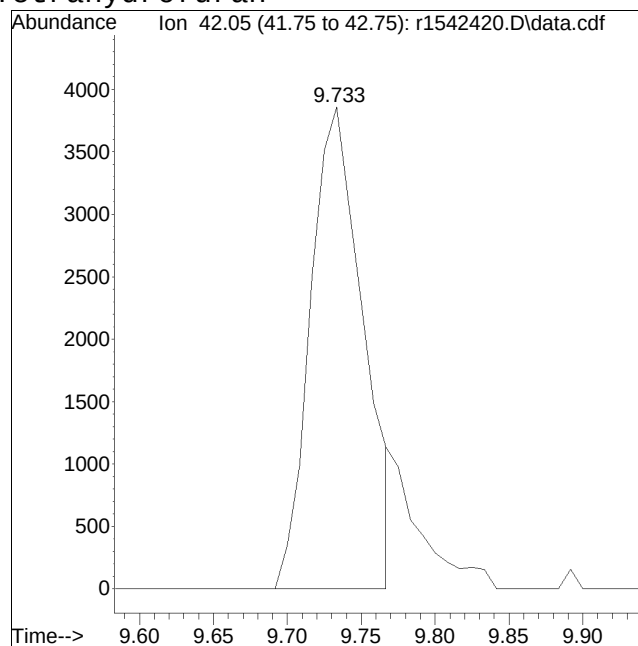
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1542420.D Operator : AIRLAB15:JMB
Date Inj'd : 1/31/2020 0:7: 1 Instrument :
Sample : L2403288-06,3,250,250 Quant Date : 2/1/2024 1:33 pm

Compound #40: Tetrahydrofuran



Original Peak Response = 11078

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



Manual Peak Response = 9600 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542421.D
 Acq On : 31 Jan 2024 7:38 PM
 Operator : AIRLAB15:JMB
 Sample : L2403288-09,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 13:34:05 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131T\r1542413.D
 Sub List : PADEP-T015-IA+_CIS-1,2 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.125	49	357210	10.000	ppbV	0.05
Standard Area = 375210			Recovery =	95.20%		
43) 1,4-difluorobenzene	11.340	114	917366	10.000	ppbV	0.05
Standard Area = 971110			Recovery =	94.47%		
67) chlorobenzene-D5	16.050	54	181110	10.000	ppbV	0.04
Standard Area = 187857			Recovery =	96.41%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	4.024	85	27125	0.667	ppbV	99
6) chloromethane	4.192	50	11254	0.736	ppbV	98
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	4.564	54	724	0.048	ppbV #	65
13) bromomethane	4.846		0	N.D.		
14) chloroethane	0.000		0	N.D.		
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.693	43	356093M6	17.661	ppbV	
21) trichlorofluoromethane	5.883	101	10521	0.346	ppbV	91
22) isopropyl alcohol	5.973	45	2034102	80.072	ppbV	98
26) 1,1-dichloroethene	0.000		0	N.D.		
28) methylene chloride	6.720	49	6290	0.228	ppbV	91
29) 3-chloropropene	6.786		0	N.D.		
30) carbon disulfide	7.026	76	3135	0.048	ppbV #	1
31) Freon 113	7.026	101	2674	0.067	ppbV #	84
32) trans-1,2-dichloroethene	7.775		0	N.D.		
33) 1,1-dichloroethane	8.050		0	N.D.		
34) MTBE	8.067		0	N.D.		
37) cis-1,2-dichloroethene	0.000		0	N.D.		
39) chloroform	9.275	83	1699	0.039	ppbV #	90
40) Tetrahydrofuran	9.742	42	3702	0.125	ppbV #	72
42) 1,2-dichloroethane	10.117		0	N.D.		
44) hexane	9.192	57	6336	0.158	ppbV #	1
48) 1,1,1-trichloroethane	0.000		0	N.D.		
50) benzene	10.927	78	18134	0.244	ppbV	99
52) carbon tetrachloride	11.093	117	2005	0.073	ppbV #	95
53) cyclohexane	11.240	56	2052	0.047	ppbV #	80
56) 1,2-dichloropropane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542421.D
 Acq On : 31 Jan 2024 7:38 PM
 Operator : AIRLAB15:JMB
 Sample : L2403288-09,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 13:34:05 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131T\r1542413.D
 Sub List : PADEP-T015-IA+_CIS-1,2 - .

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
58)	1,4-dioxane	0.000		0	N.D.		
59)	trichloroethene	12.160		0	N.D.		
61)	methyl methacrylate	0.000		0	N.D.	d	
64)	4-methyl-2-pentanone	0.000		0	N.D.	d	
68)	toluene	14.300	91	26025	0.251	ppbV	97
71)	1,3-dichloropropane	0.000		0	N.D.		
78)	tetrachloroethene	15.442	166	2724	0.065	ppbV #	81
80)	chlorobenzene	16.100		0	N.D.		
81)	ethylbenzene	16.442	91	4444	0.033	ppbV	97
83)	m+p-xylene	16.592	91	10715	0.102	ppbV	96
84)	bromoform	0.000		0	N.D.		
85)	styrene	16.933		0	N.D.		
87)	o-xylene	17.025	91	4036	0.039	ppbV	97
91)	isopropylbenzene	17.542		0	N.D.		
97)	1,3,5-trimethylbenzene	18.158		0	N.D.		
99)	1,2,4-trimethylbenzene	18.458		0	N.D.		
103)	1,4-dichlorobenzene	18.692		0	N.D.		
107)	1,2-dichlorobenzene	0.000		0	N.D.		
115)	1,2,4-trichlorobenzene	0.000		0	N.D.		

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

Sub List : PADEP-T015-IA+_CIS-1,2 - .\2024\01\0131T\r1542413.D

Data Path : 0:\Forensics\Data\AirLab15\2024\01\0131T\

Data File : r1542421.D

Acq On : 31 Jan 2024 7:38 PM

Operator : AIRLAB15:JMB

Sample : L2403288-09,3,250,250

Misc : WG1880230,ICAL20574

ALS Vial : 0 Sample Multiplier: 1

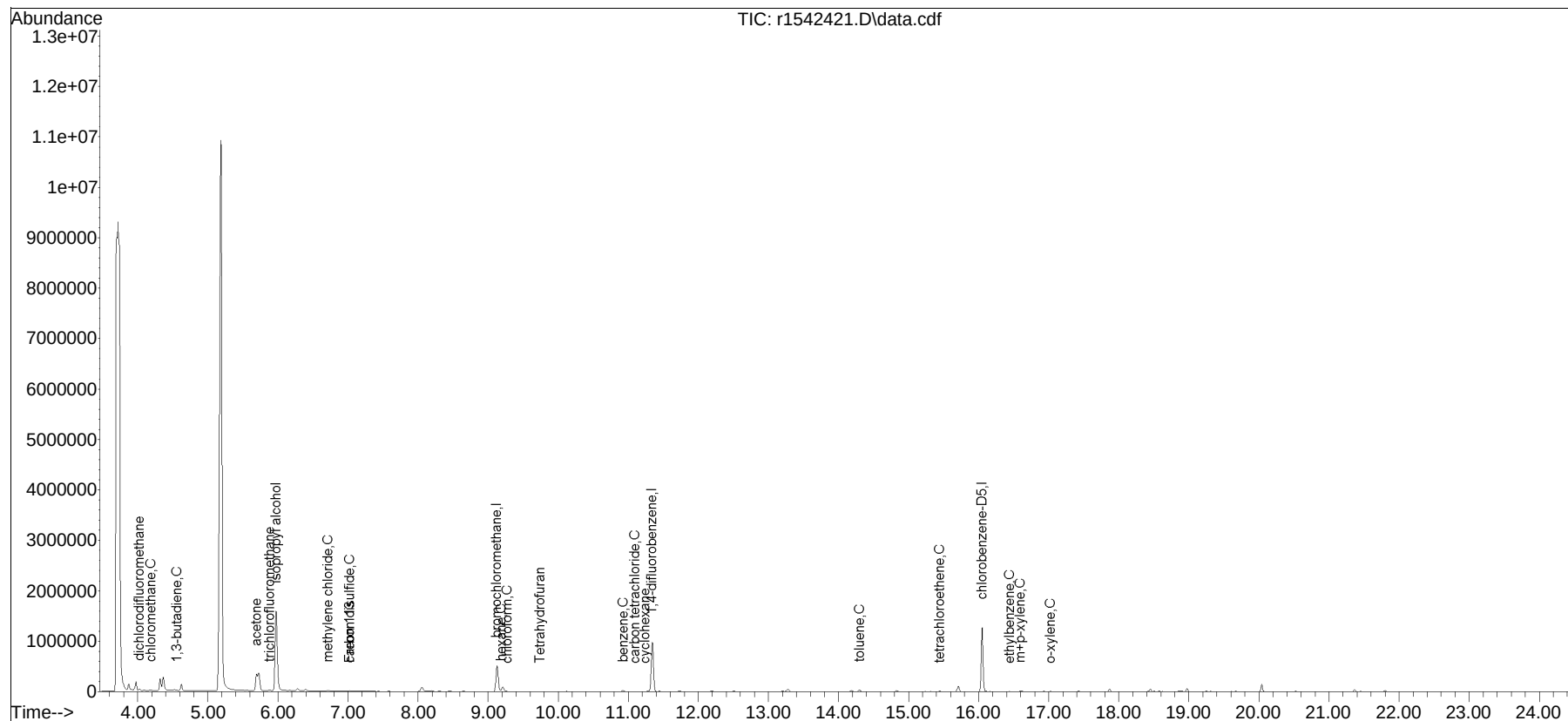
Quant Time: Feb 01 13:34:05 2024

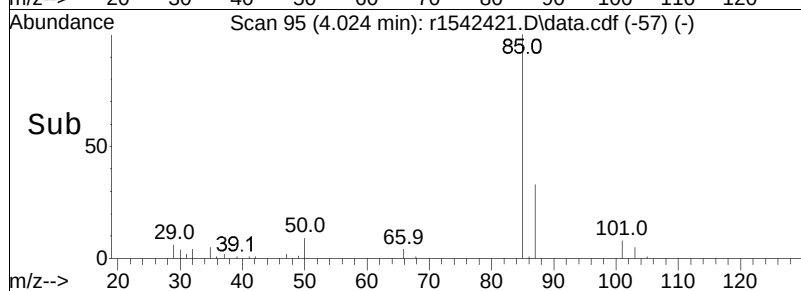
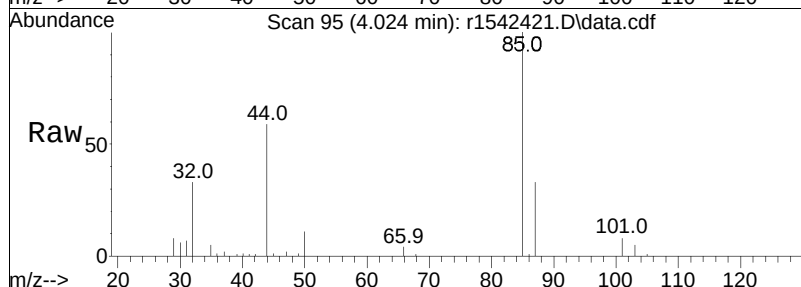
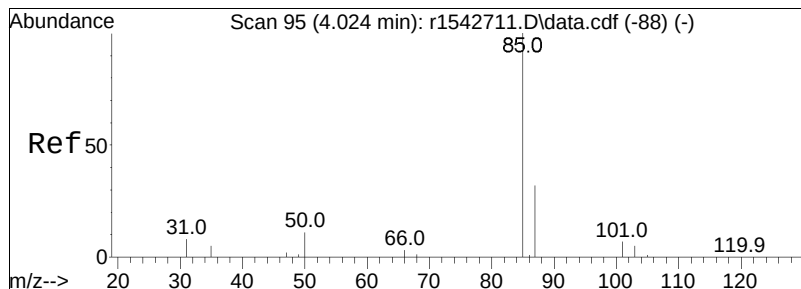
Quant Method : 0:\Forensics\Data\AirLab15\2024\01\0131T\TFS15_231120.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

QLast Update : Tue Nov 21 15:43:21 2023

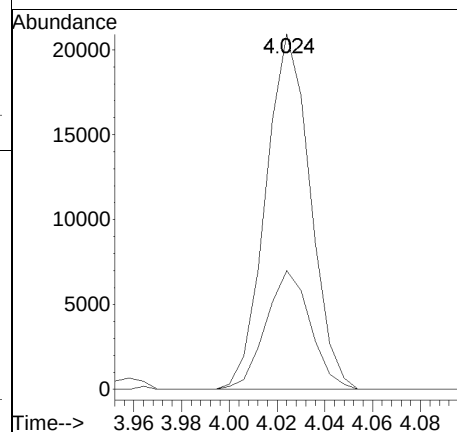
Response via : Initial Calibration

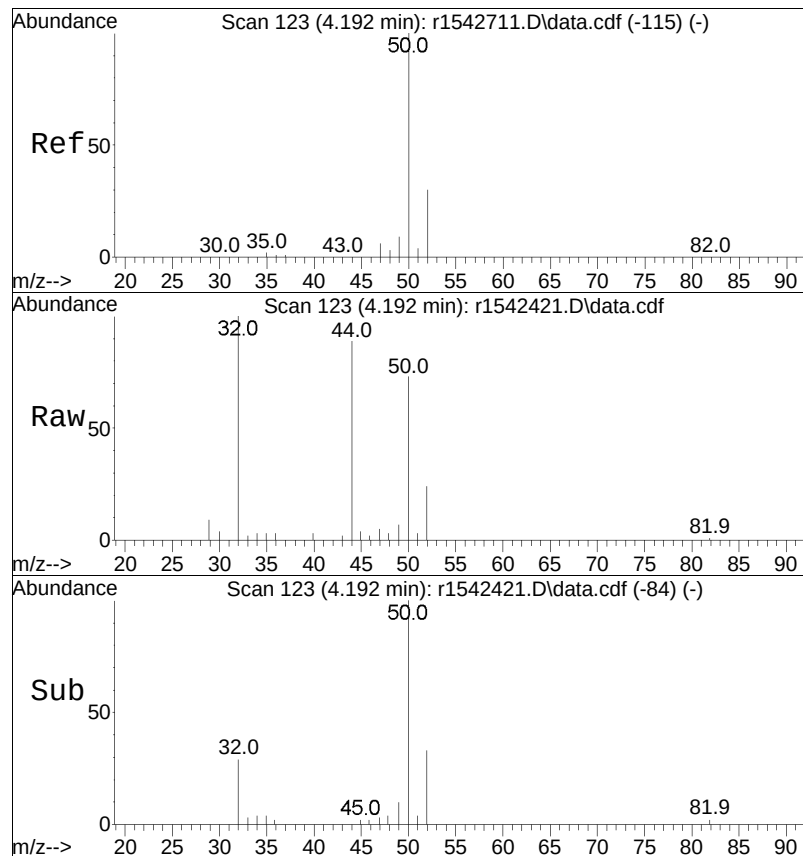




#5
dichlorodifluoromethane
Concen: 0.67 ppbV
RT: 4.024 min Scan# 95
Delta R.T. 0.030 min
Lab File: r1542421.D
Acq: 31 Jan 2024 7:38 PM

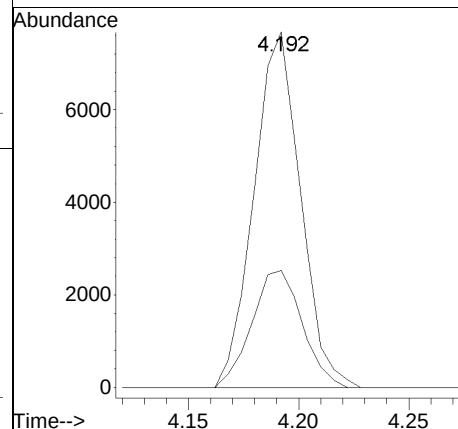
Tgt Ion: 85 Resp: 27125
Ion Ratio Lower Upper
85 100
87 33.4 26.1 39.1

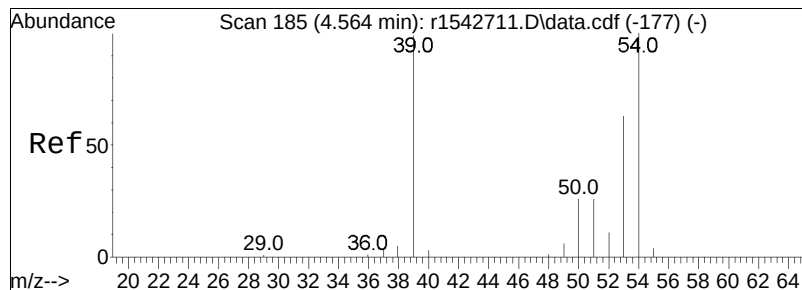




#6
 chloromethane
 Concen: 0.74 ppbV
 RT: 4.192 min Scan# 123
 Delta R.T. 0.036 min
 Lab File: r1542421.D
 Acq: 31 Jan 2024 7:38 PM

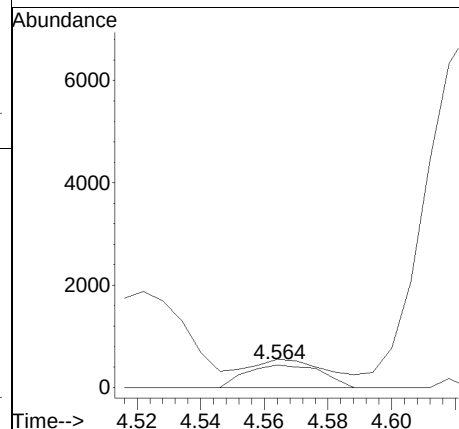
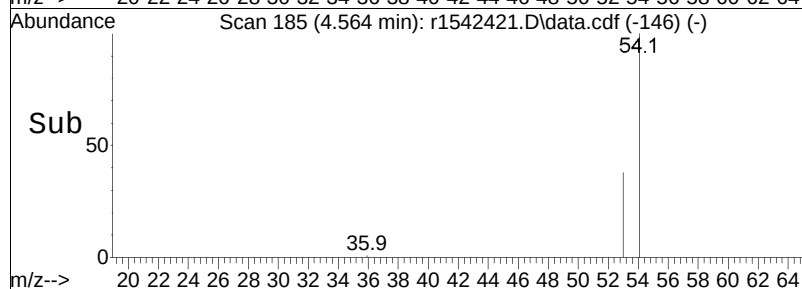
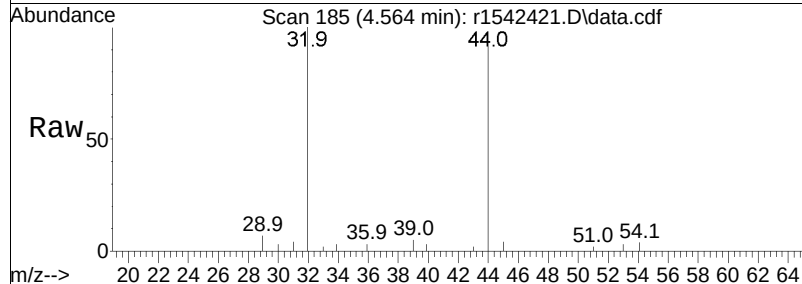
Tgt Ion	Ratio	Lower	Upper
50	100		
52	32.9	27.4	41.2

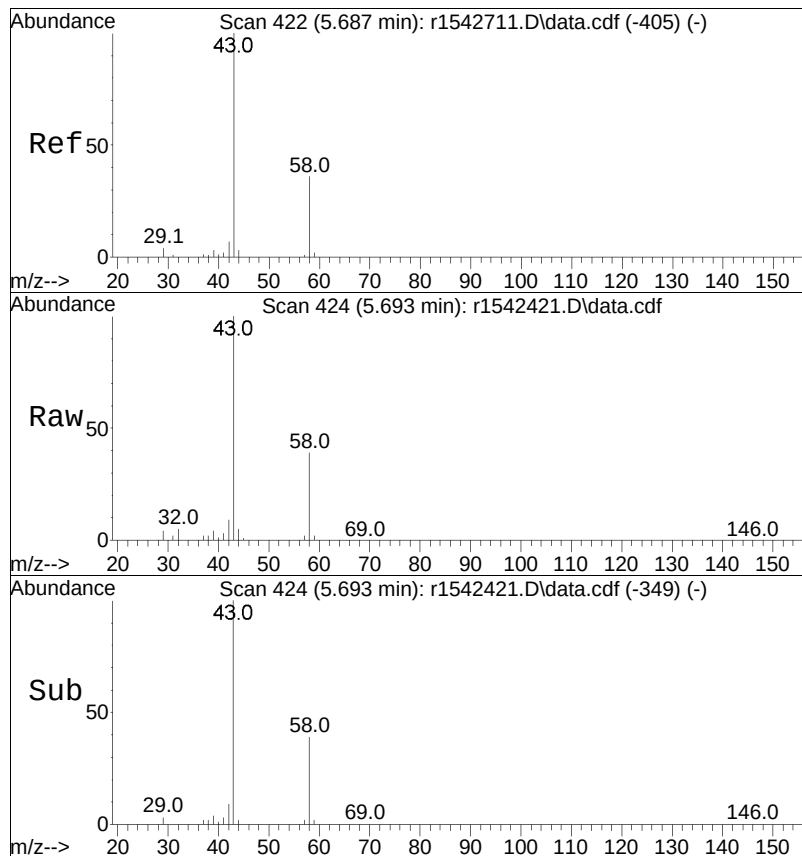




#10
 1,3-butadiene
 Concen: 0.05 ppbV
 RT: 4.564 min Scan# 185
 Delta R.T. 0.036 min
 Lab File: r1542421.D
 Acq: 31 Jan 2024 7:38 PM

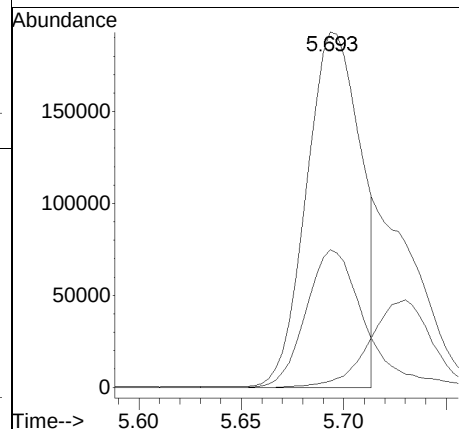
Tgt Ion	Ratio	Lower	Upper
54	100		
39	125.8	73.8	110.8#

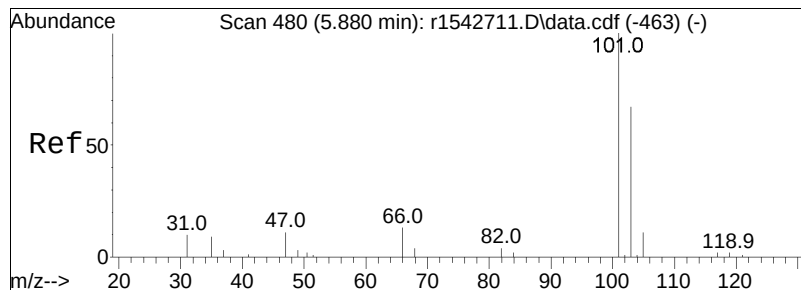




#19
 acetone
 Concen: 17.66 ppbV m
 RT: 5.693 min Scan# 424
 Delta R.T. 0.050 min
 Lab File: r1542421.D
 Acq: 31 Jan 2024 7:38 PM

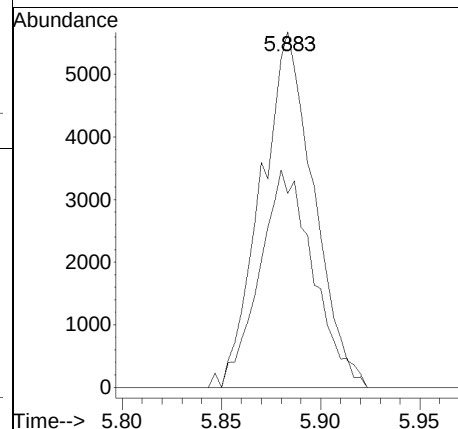
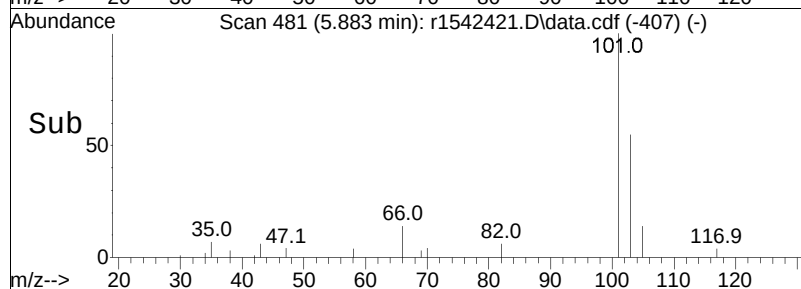
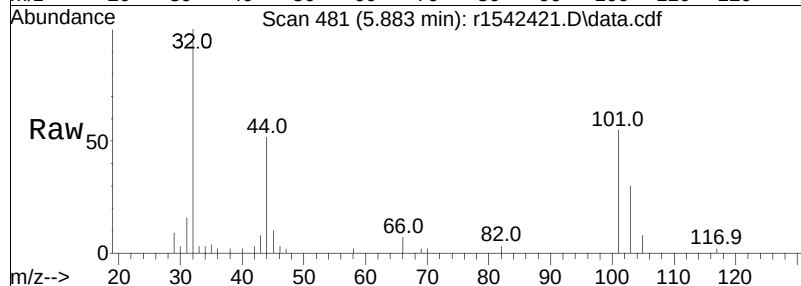
Tgt Ion:	43	Resp:	356093
Ion Ratio	Lower	Upper	
43	100		
58	38.7	39.0	58.4#
57	1.8	0.9	1.3#

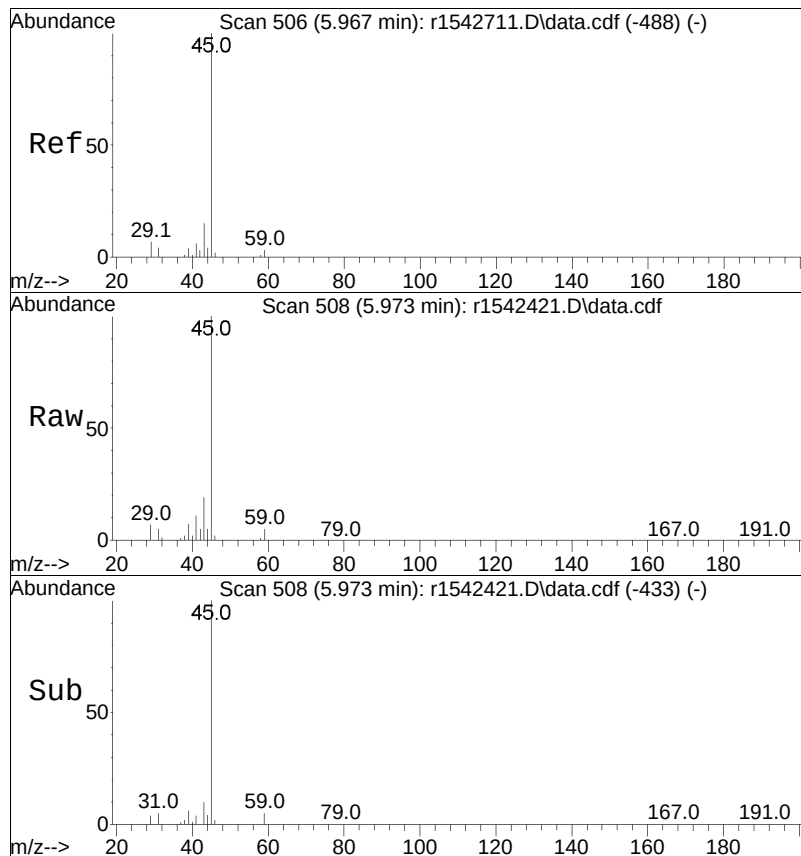




#21
trichlorofluoromethane
Concen: 0.35 ppbV
RT: 5.883 min Scan# 481
Delta R.T. 0.047 min
Lab File: r1542421.D
Acq: 31 Jan 2024 7:38 PM

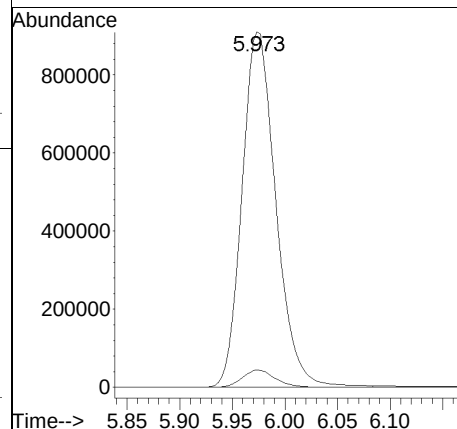
Tgt Ion	Ratio	Lower	Upper
101	100		
103	54.6	49.4	74.0

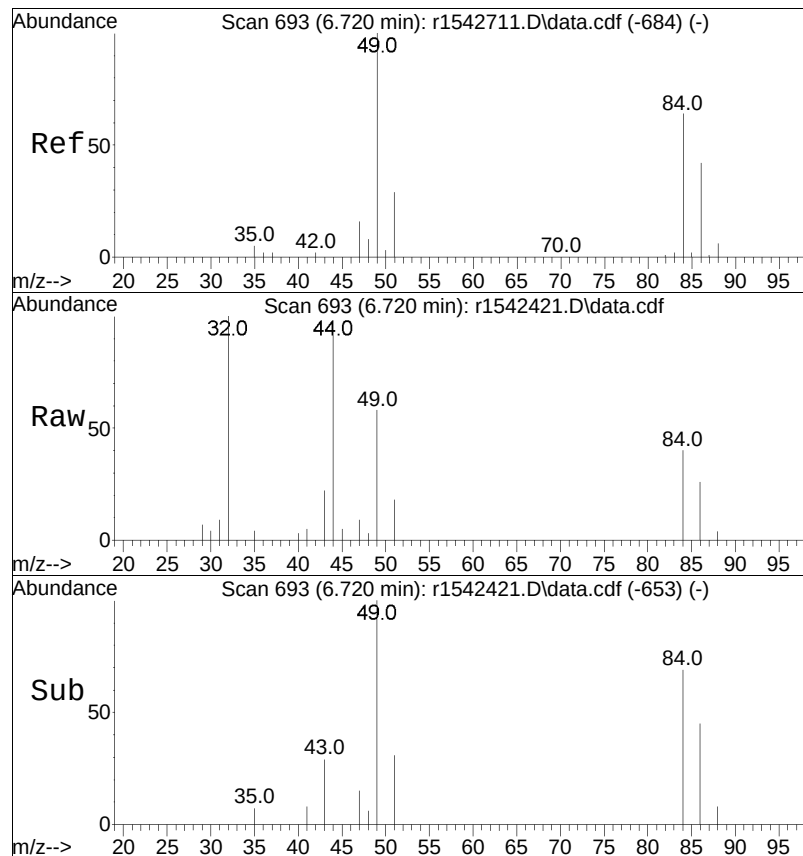




#22
 isopropyl alcohol
 Concen: 80.07 ppbV
 RT: 5.973 min Scan# 508
 Delta R.T. 0.050 min
 Lab File: r1542421.D
 Acq: 31 Jan 2024 7:38 PM

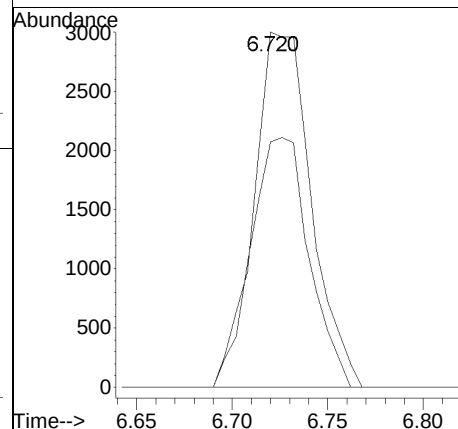
Tgt Ion	Ratio	Lower	Upper
45	100		
59	5.0	4.6	6.8

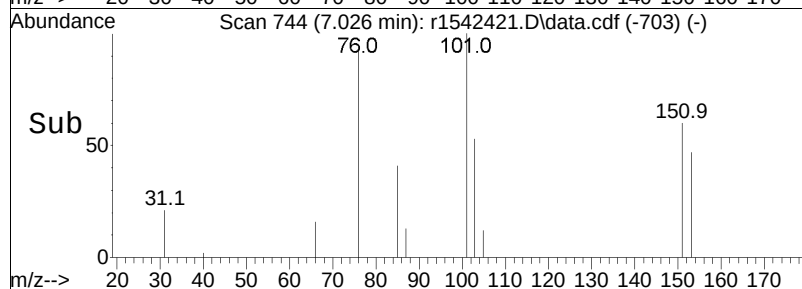
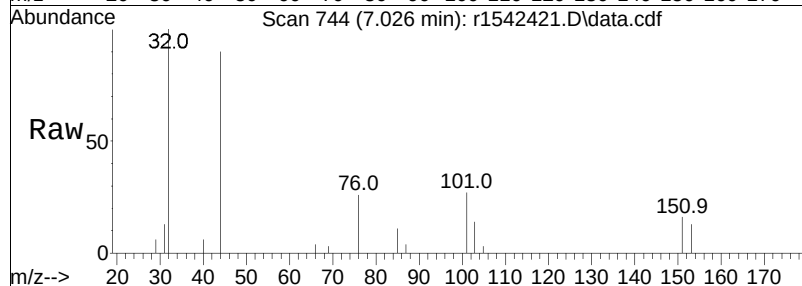
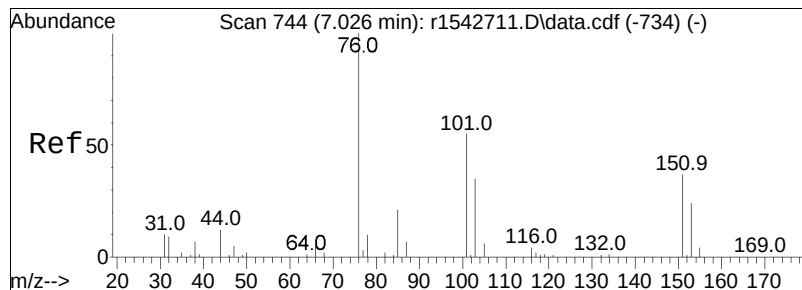




#28
 methylene chloride
 Concen: 0.23 ppbV
 RT: 6.720 min Scan# 693
 Delta R.T. 0.042 min
 Lab File: r1542421.D
 Acq: 31 Jan 2024 7:38 PM

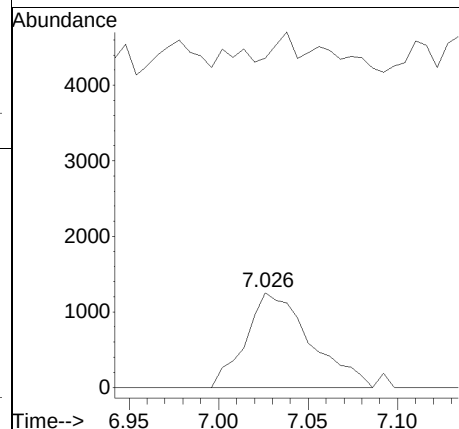
Tgt Ion	Ratio	Lower	Upper
49	100		
84	69.1	61.2	91.8

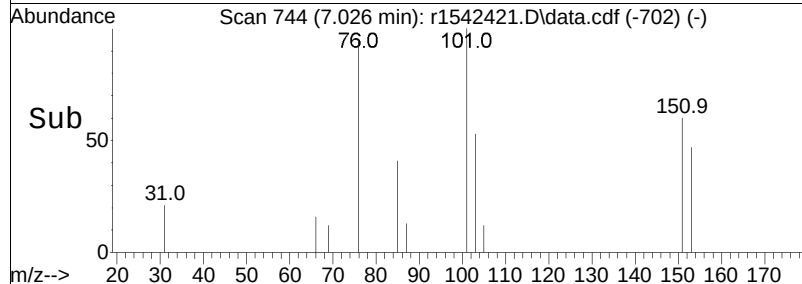
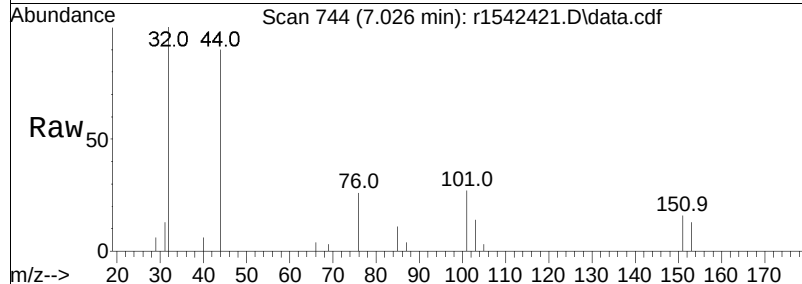
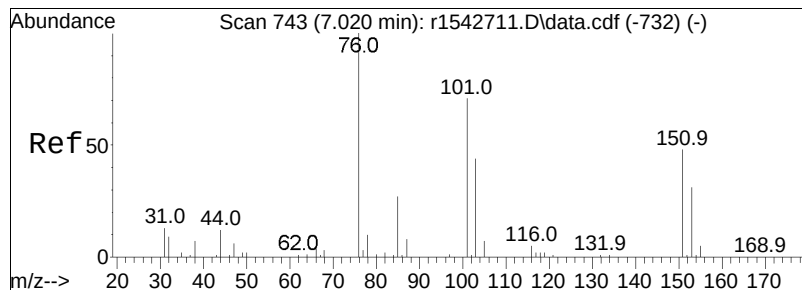




#30
 carbon disulfide
 Concen: 0.05 ppbV
 RT: 7.026 min Scan# 744
 Delta R.T. 0.048 min
 Lab File: r1542421.D
 Acq: 31 Jan 2024 7:38 PM

Tgt Ion	Ratio	Lower	Upper
76	100		
44	347.9	7.8	11.6#





#31

Freon 113

Concen: 0.07 ppbV

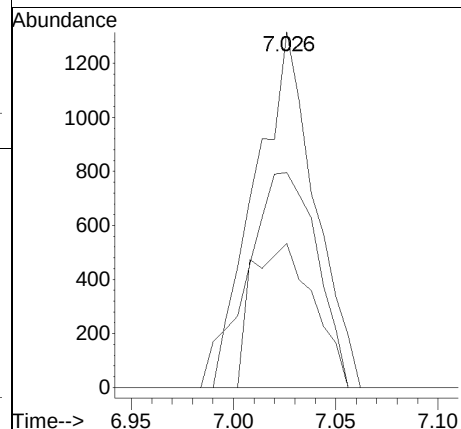
RT: 7.026 min Scan# 744

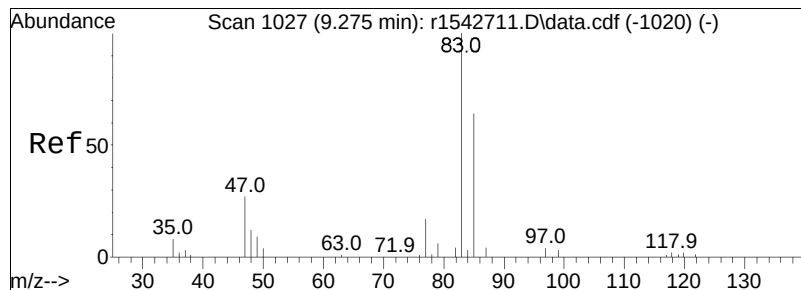
Delta R.T. 0.054 min

Lab File: r1542421.D

Acq: 31 Jan 2024 7:38 PM

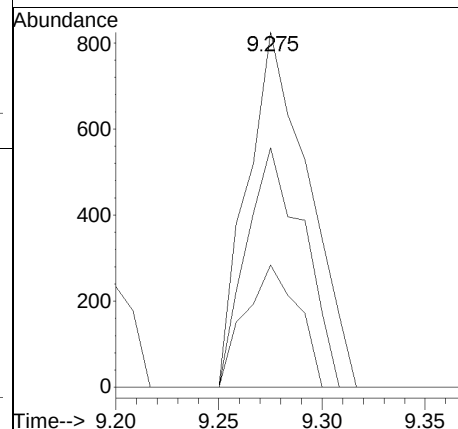
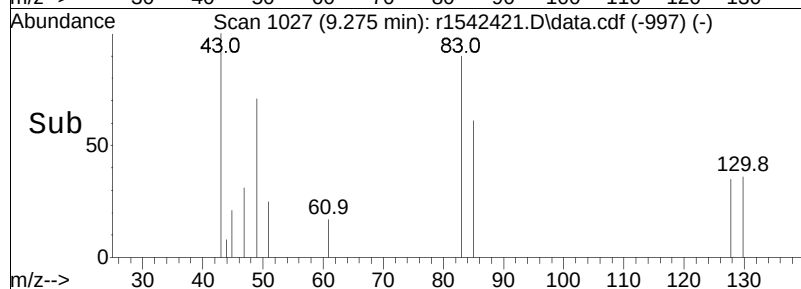
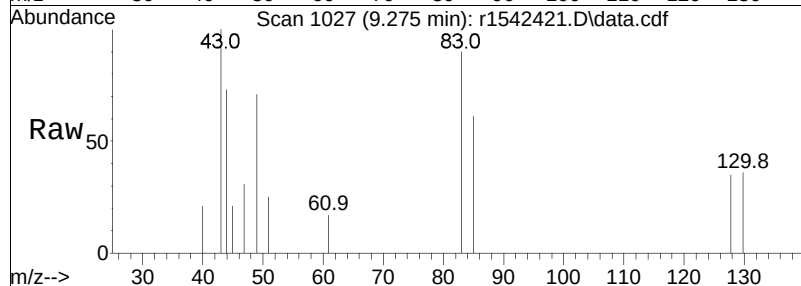
Tgt Ion:	101	Resp:	2674
Ion Ratio	Lower	Upper	
101	100		
85	40.6	35.3	52.9
151	60.5	63.8	95.8#

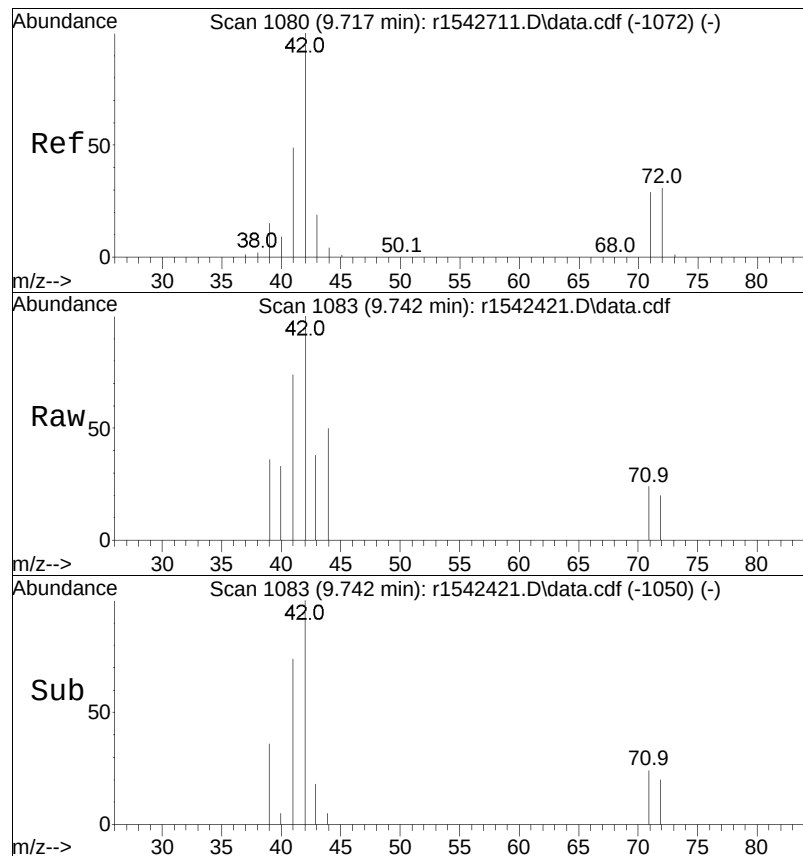




#39
chloroform
Concen: 0.04 ppbV
RT: 9.275 min Scan# 1027
Delta R.T. 0.050 min
Lab File: r1542421.D
Acq: 31 Jan 2024 7:38 PM

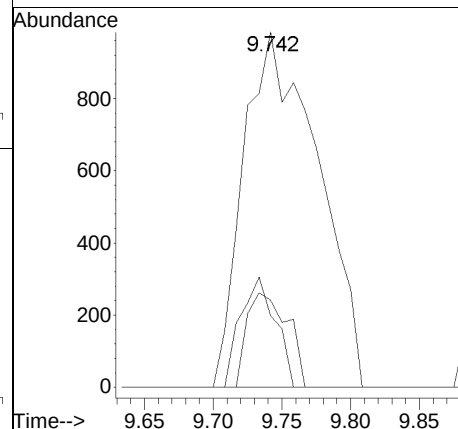
Tgt Ion:	83	Resp:	1699
Ion Ratio	Lower	Upper	
83	100		
85	67.4	51.5	77.3
47	34.4	15.9	23.9#

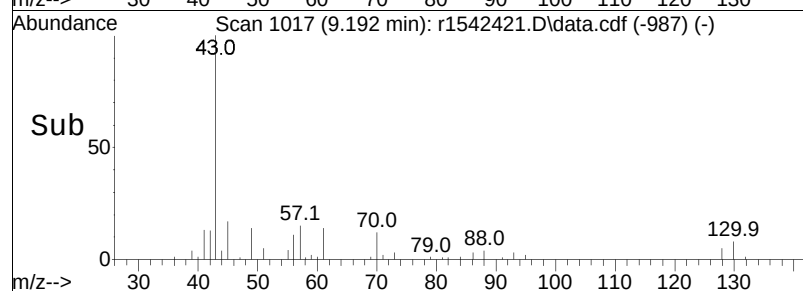
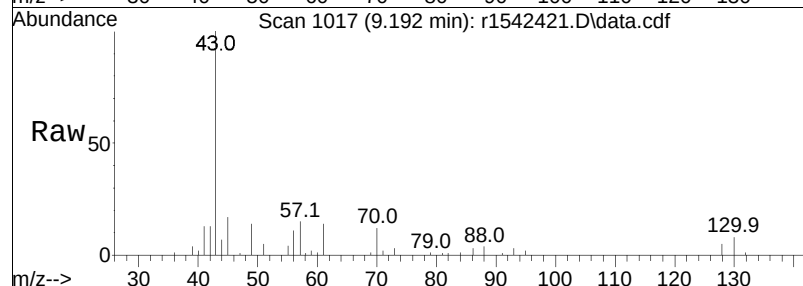
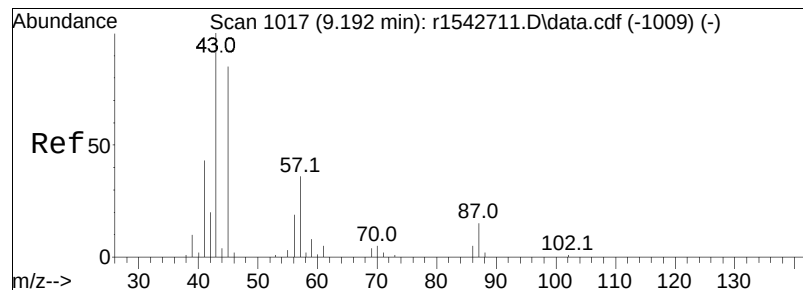




#40
Tetrahydrofuran
Concen: 0.12 ppbV
RT: 9.742 min Scan# 1083
Delta R.T. 0.075 min
Lab File: r1542421.D
Acq: 31 Jan 2024 7:38 PM

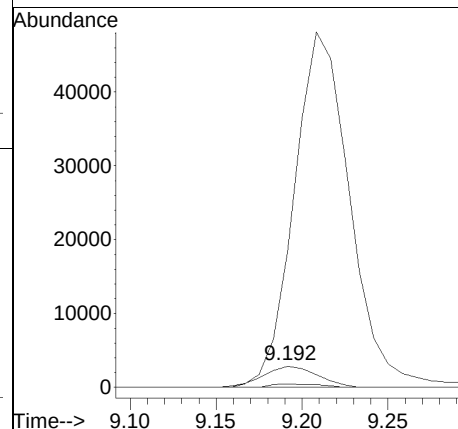
Tgt Ion:	42	Resp:	3702
Ion Ratio	Lower	Upper	
42	100		
71	24.5	30.6	46.0#
72	20.1	32.5	48.7#

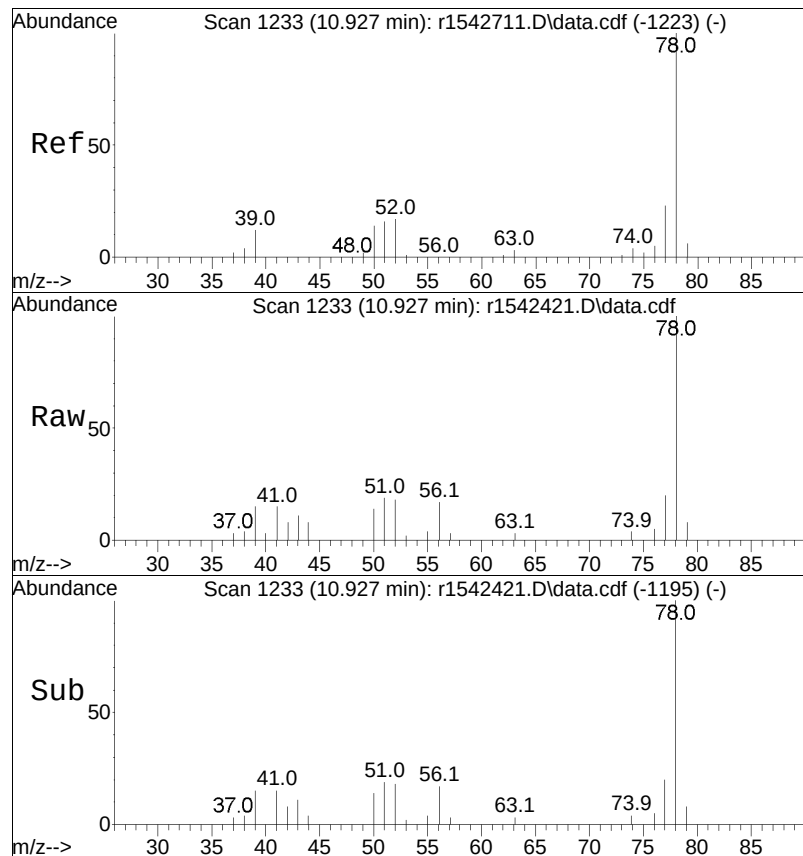




#44
hexane
Concen: 0.16 ppbV
RT: 9.192 min Scan# 1017
Delta R.T. 0.050 min
Lab File: r1542421.D
Acq: 31 Jan 2024 7:38 PM

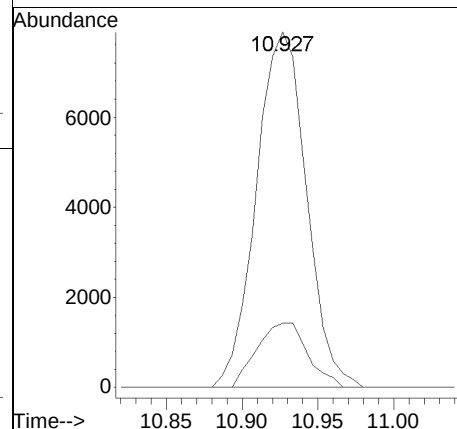
Tgt	Ion	Resp	Lower	Upper
57	100	6336		
43	648.0	146.8	220.2#	
86	16.8	12.7	19.1	

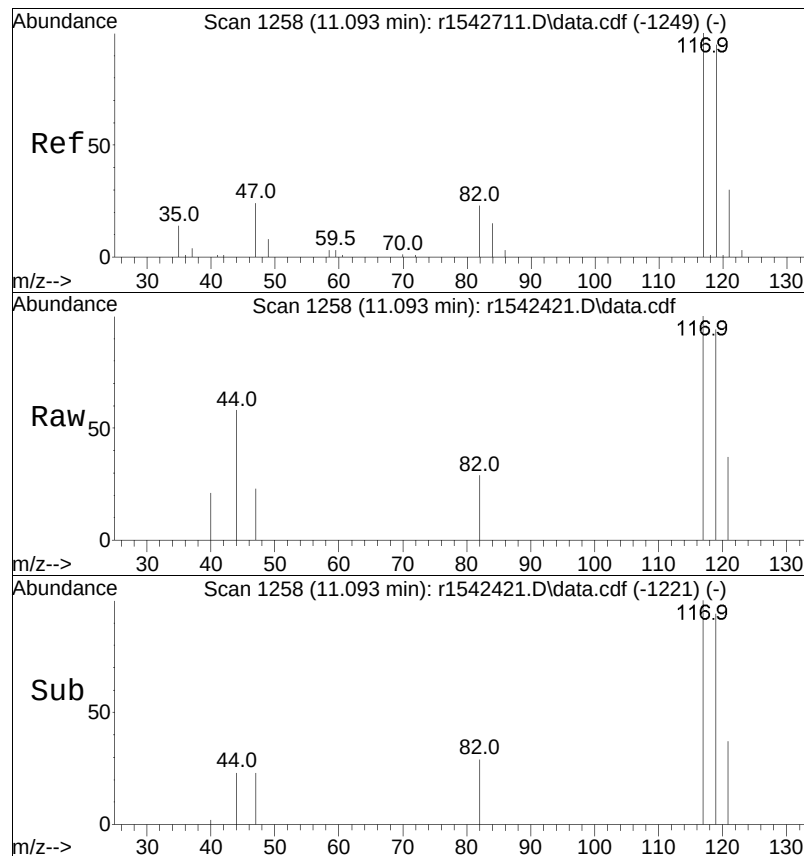




#50
benzene
Concen: 0.24 ppbV
RT: 10.927 min Scan# 1233
Delta R.T. 0.053 min
Lab File: r1542421.D
Acq: 31 Jan 2024 7:38 PM

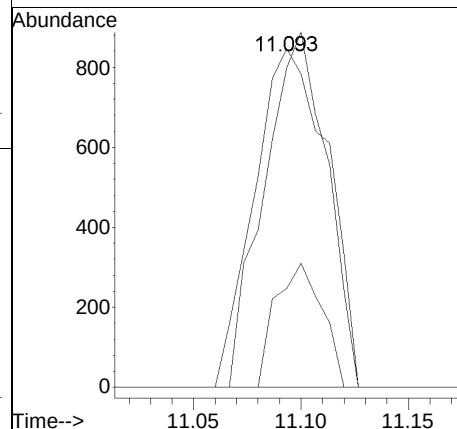
Tgt	Ion	Resp	Lower	Upper
78	100	18134		
52	18.1	14.1	21.1	

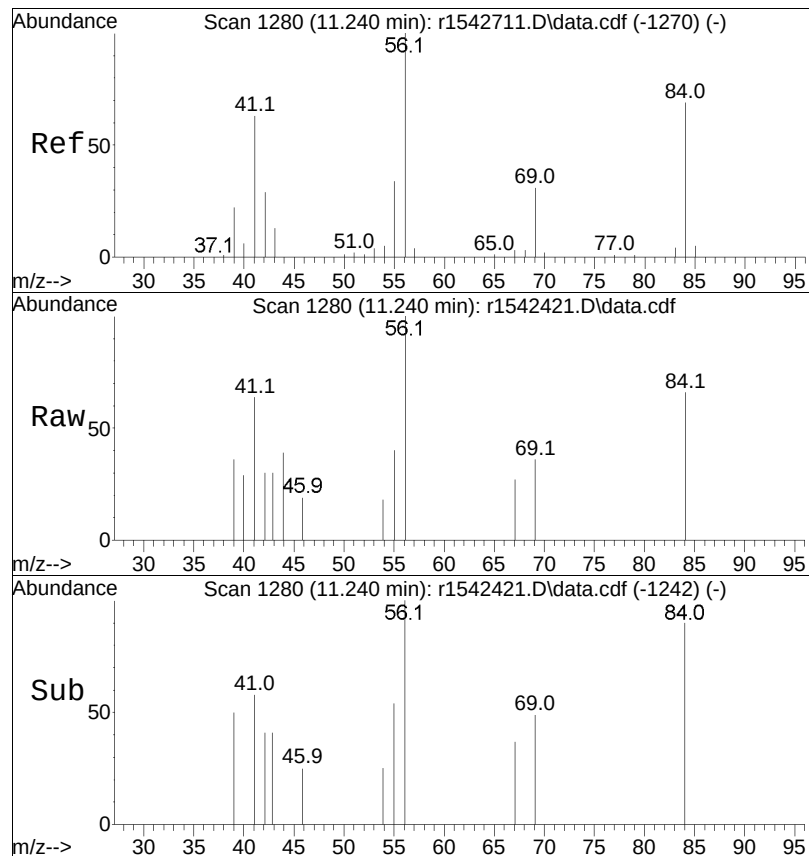




#52
 carbon tetrachloride
 Concen: 0.07 ppbV
 RT: 11.093 min Scan# 1258
 Delta R.T. 0.047 min
 Lab File: r1542421.D
 Acq: 31 Jan 2024 7:38 PM

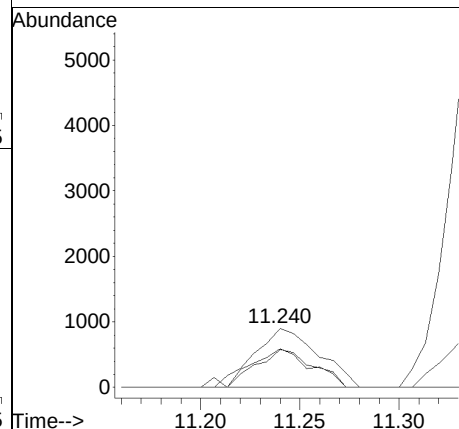
Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.4	77.1	115.7
82	29.2	17.2	25.8

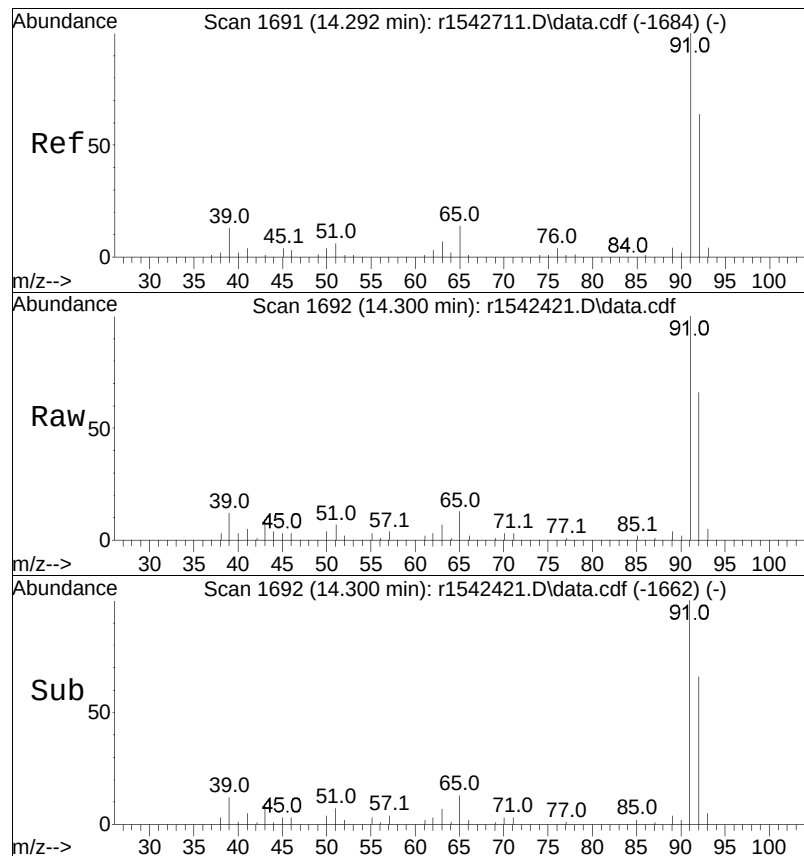




#53
cyclohexane
Concen: 0.05 ppbV
RT: 11.240 min Scan# 1280
Delta R.T. 0.053 min
Lab File: r1542421.D
Acq: 31 Jan 2024 7:38 PM

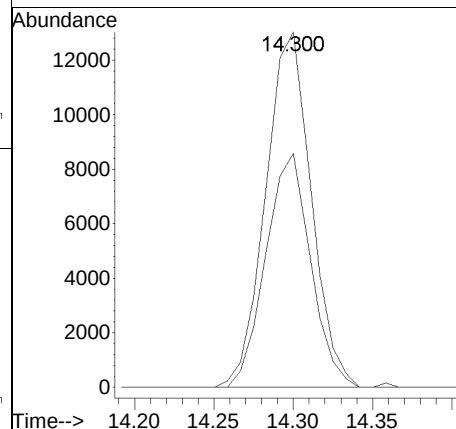
Tgt Ion	Ratio	Lower	Upper
56	100		
84	65.6	60.2	90.2
41	64.4	33.5	50.3

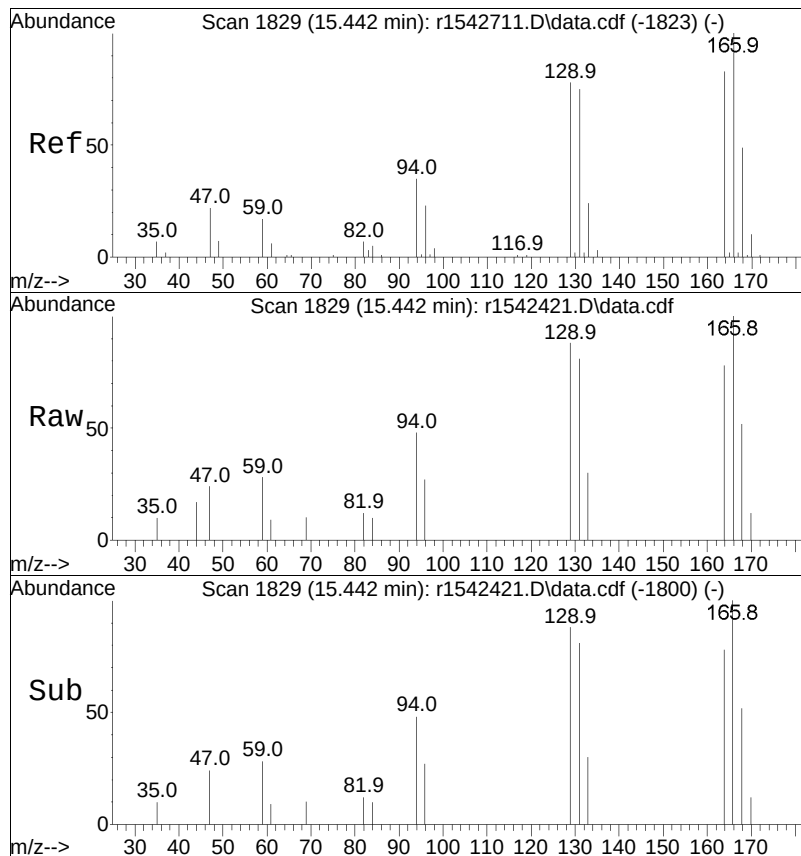




#68
toluene
Concen: 0.25 ppbV
RT: 14.300 min Scan# 1692
Delta R.T. 0.050 min
Lab File: r1542421.D
Acq: 31 Jan 2024 7:38 PM

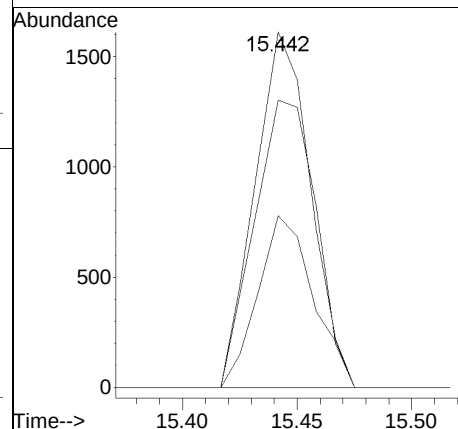
Tgt Ion	Ratio	Lower	Upper
91	100		
92	65.8	51.0	76.4

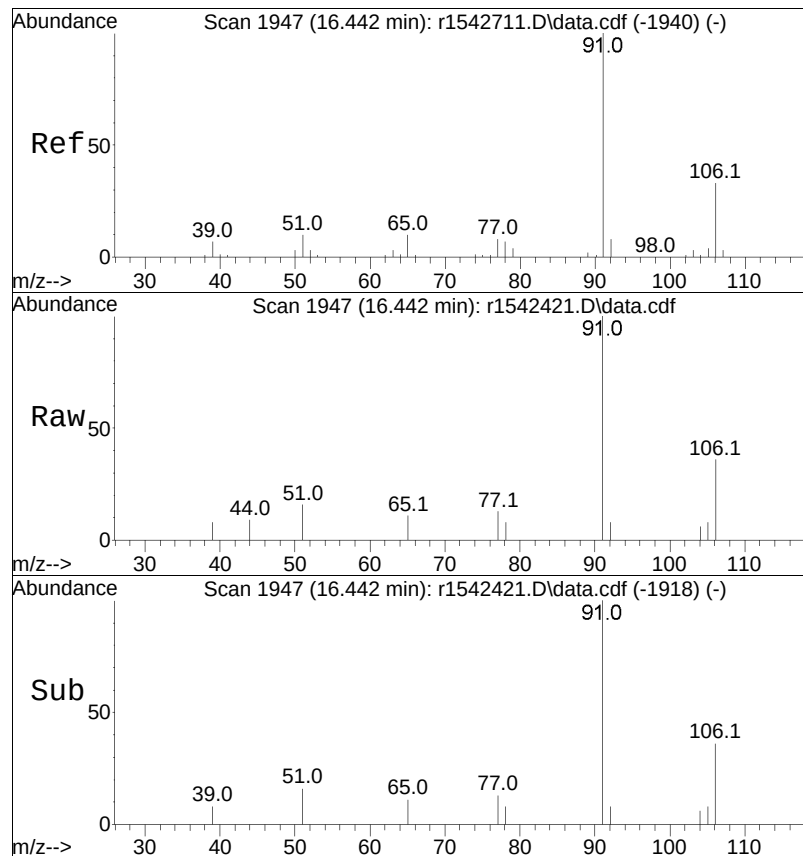




#78
 tetrachloroethene
 Concen: 0.07 ppbV
 RT: 15.442 min Scan# 1829
 Delta R.T. 0.042 min
 Lab File: r1542421.D
 Acq: 31 Jan 2024 7:38 PM

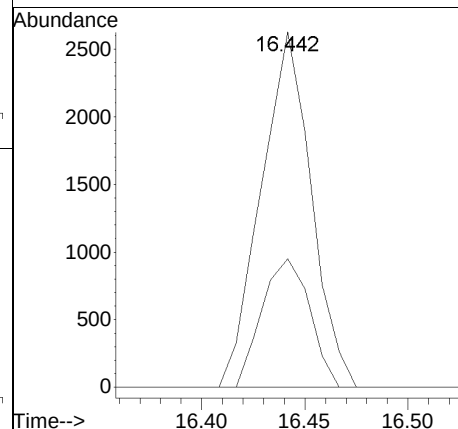
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	2724		
131	80.8		55.6	83.4
94	48.3		25.4	38.2#

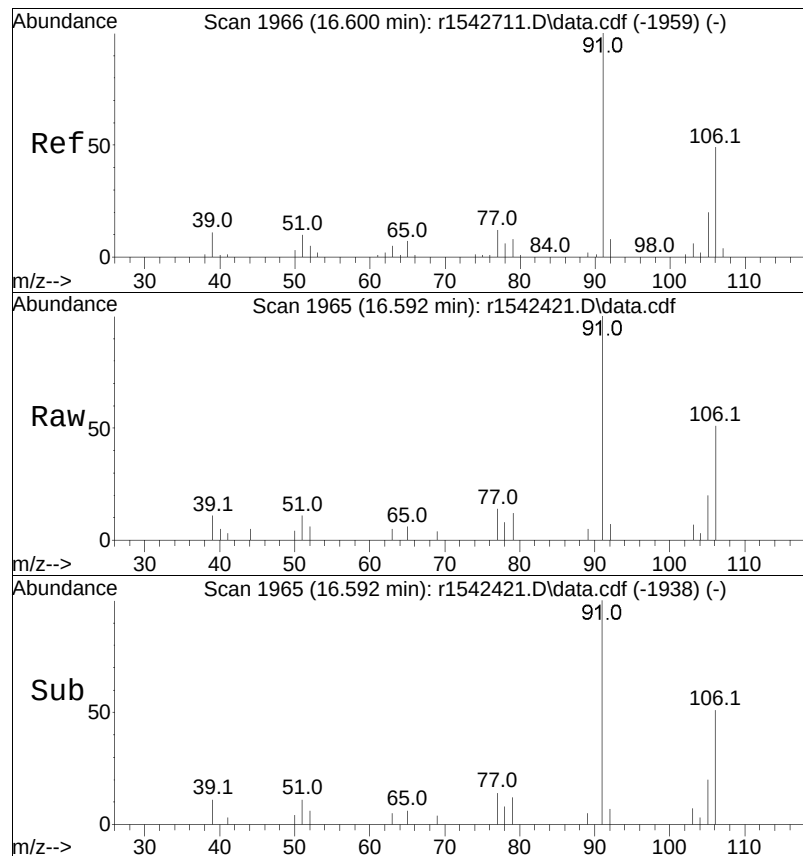




#81
ethylbenzene
Concen: 0.03 ppbV
RT: 16.442 min Scan# 1947
Delta R.T. 0.042 min
Lab File: r1542421.D
Acq: 31 Jan 2024 7:38 PM

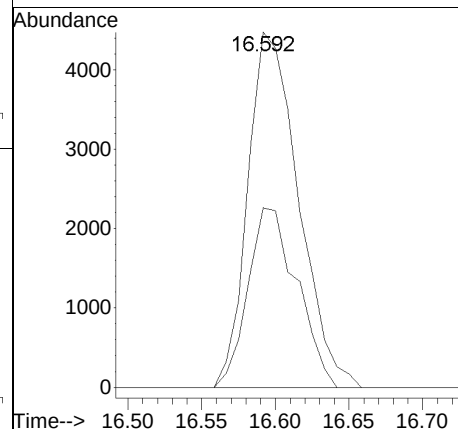
Tgt	Ion	Resp	Lower	Upper
91	100	4444		
106	36.2	27.7	41.5	

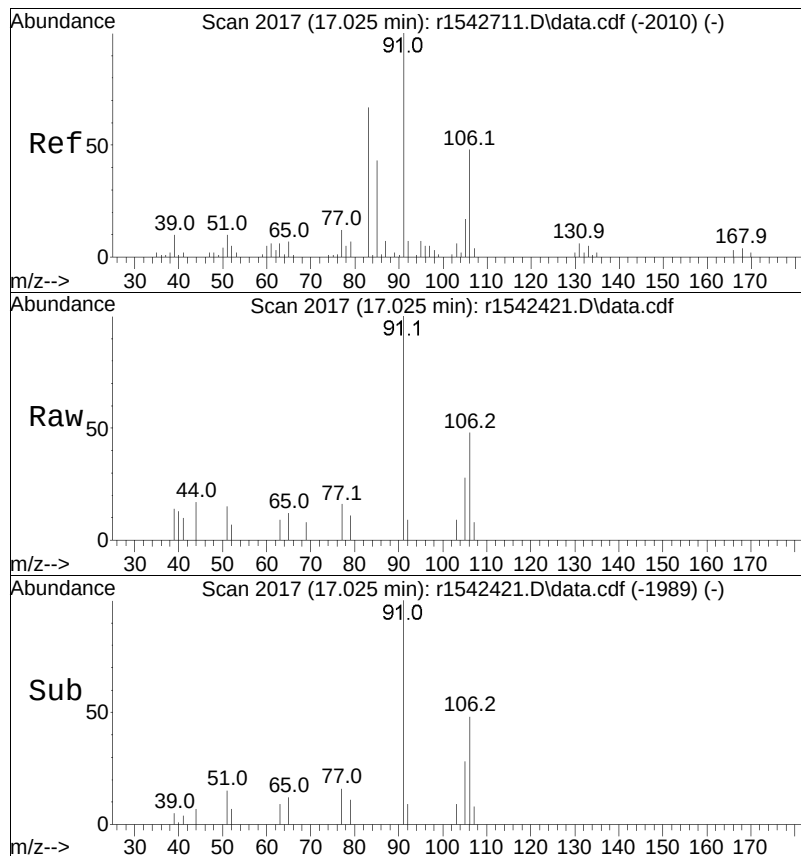




#83
 m+p-xylene
 Concen: 0.10 ppbV
 RT: 16.592 min Scan# 1965
 Delta R.T. 0.025 min
 Lab File: r1542421.D
 Acq: 31 Jan 2024 7:38 PM

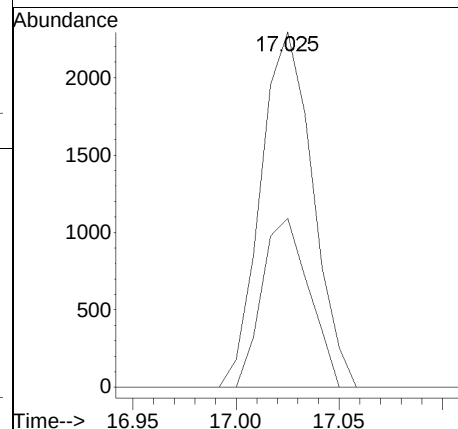
Tgt	Ion	Resp	Lower	Upper
91	100	10715		
106	50.5	42.7	64.1	





#87
 o-xylene
 Concen: 0.04 ppbV
 RT: 17.025 min Scan# 2017
 Delta R.T. 0.033 min
 Lab File: r1542421.D
 Acq: 31 Jan 2024 7:38 PM

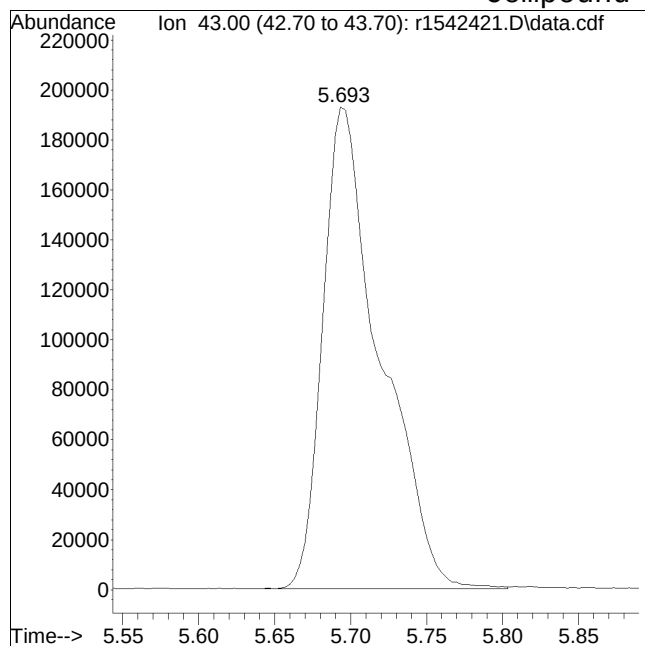
Tgt	Ion	Resp	Lower	Upper
91	100	4036		
106	47.6		40.0	60.0



Manual Integration Report

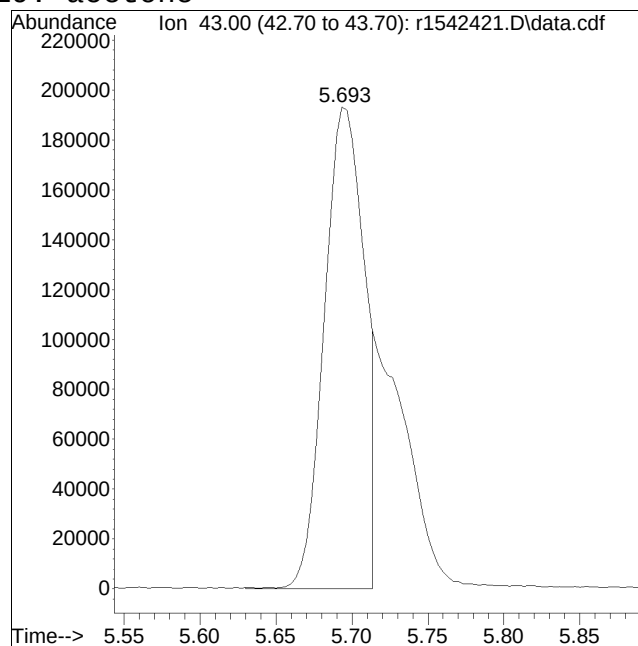
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1542421.D Operator : AIRLAB15:JMB
Date Inj'd : 1/31/2020 0:7: 8 Instrument :
Sample : L2403288-09,3,250,250 Quant Date : 2/1/2024 1:34 pm

Compound #19: acetone



Original Peak Response = 505778

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



Manual Peak Response = 356093 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542422.D
 Acq On : 31 Jan 2024 8:17 PM
 Operator : AIRLAB15:JMB
 Sample : L2403288-11,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 13:38:36 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131T\r1542413.D
 Sub List : PADEP-T015-IA+_CIS-1,2 - .

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

Internal Standards						
1) bromochloromethane	9.125	49	345262	10.000	ppbV	0.05
Standard Area = 375210			Recovery =		92.02%	
43) 1,4-difluorobenzene	11.340	114	897679	10.000	ppbV	0.05
Standard Area = 971110			Recovery =		92.44%	
67) chlorobenzene-D5	16.050	54	176417	10.000	ppbV	0.04
Standard Area = 187857			Recovery =		93.91%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	4.024	85	19479	0.495	ppbV	99
6) chloromethane	4.192	50	14352	0.971	ppbV	99
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	4.570	54	644	0.045	ppbV #	71
13) bromomethane	4.846		0	N.D.		
14) chloroethane	0.000		0	N.D.		
17) vinyl bromide	5.390		0	N.D.		
19) acetone	5.697	43	209707M6	10.761	ppbV	
21) trichlorofluoromethane	5.880	101	7834	0.267	ppbV	99
22) isopropyl alcohol	5.973	45	1348890	54.936	ppbV	97
26) 1,1-dichloroethene	6.522		0	N.D.		
28) methylene chloride	6.726	49	7687	0.289	ppbV	91
29) 3-chloropropene	6.840		0	N.D.		
30) carbon disulfide	7.038	76	4589	0.073	ppbV #	1
31) Freon 113	7.020	101	2670	0.069	ppbV	93
32) trans-1,2-dichloroethene	7.767		0	N.D.		
33) 1,1-dichloroethane	8.058		0	N.D.		
34) MTBE	8.058		0	N.D.		
37) cis-1,2-dichloroethene	0.000		0	N.D.		
39) chloroform	9.275	83	28763	0.679	ppbV #	92
40) Tetrahydrofuran	9.742	42	5017	0.175	ppbV	93
42) 1,2-dichloroethane	10.117		0	N.D.		
44) hexane	9.192	57	6382	0.163	ppbV #	57
48) 1,1,1-trichloroethane	0.000		0	N.D.		
50) benzene	10.920	78	21049	0.290	ppbV	98
52) carbon tetrachloride	11.093	117	2008	0.074	ppbV	96
53) cyclohexane	11.247	56	1883	0.044	ppbV #	85
56) 1,2-dichloropropane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542422.D
 Acq On : 31 Jan 2024 8:17 PM
 Operator : AIRLAB15:JMB
 Sample : L2403288-11,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 13:38:36 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131T\r1542413.D
 Sub List : PADEP-T015-IA+_CIS-1,2 - .

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
58)	1,4-dioxane	0.000		0		N.D.	
59)	trichloroethene	12.153		0		N.D.	
61)	methyl methacrylate	12.300		0		N.D.	
64)	4-methyl-2-pentanone	13.225		0		N.D.	
68)	toluene	14.300	91	28121	0.278	ppbV	95
71)	1,3-dichloropropane	0.000		0		N.D.	
78)	tetrachloroethene	15.442	166	2760	0.068	ppbV #	93
80)	chlorobenzene	16.092		0		N.D.	
81)	ethylbenzene	16.442	91	5079	0.039	ppbV	89
83)	m+p-xylene	16.592	91	12619	0.123	ppbV	91
84)	bromoform	0.000		0		N.D.	
85)	styrene	16.933	104	10289	0.124	ppbV	98
87)	o-xylene	17.025	91	4785	0.047	ppbV	99
91)	isopropylbenzene	17.542		0		N.D.	
97)	1,3,5-trimethylbenzene	18.158		0		N.D.	
99)	1,2,4-trimethylbenzene	18.450		0		N.D.	
103)	1,4-dichlorobenzene	18.700		0		N.D.	
107)	1,2-dichlorobenzene	0.000		0		N.D.	
115)	1,2,4-trichlorobenzene	0.000		0		N.D.	

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

Sub List : PADEP-T015-IA+_CIS-1,2 - .\2024\01\0131T\r1542413.D

Data Path : 0:\Forensics\Data\AirLab15\2024\01\0131T\

Data File : r1542422.D

Acq On : 31 Jan 2024 8:17 PM

Operator : AIRLAB15:JMB

Sample : L2403288-11,3,250,250

Misc : WG1880230,ICAL20574

ALS Vial : 0 Sample Multiplier: 1

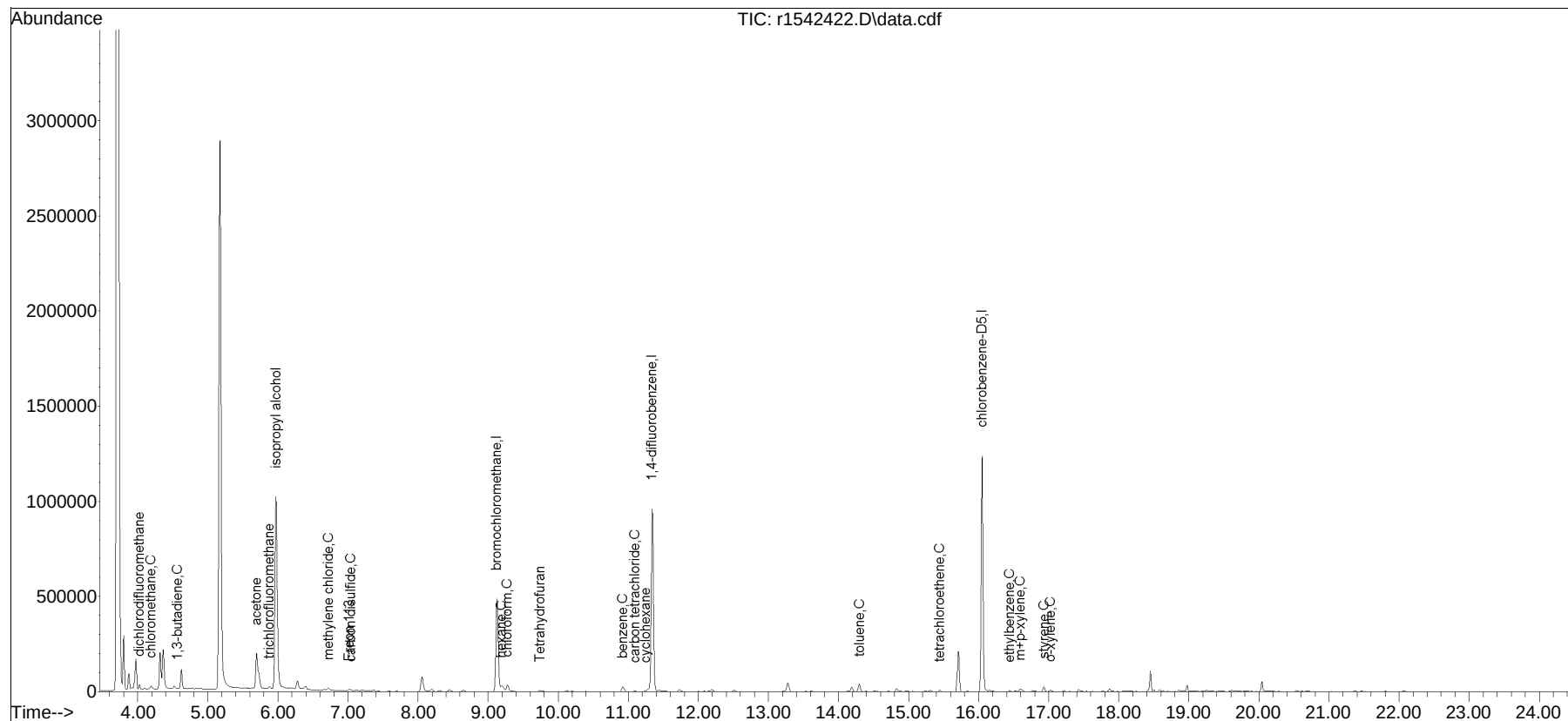
Quant Time: Feb 01 13:38:36 2024

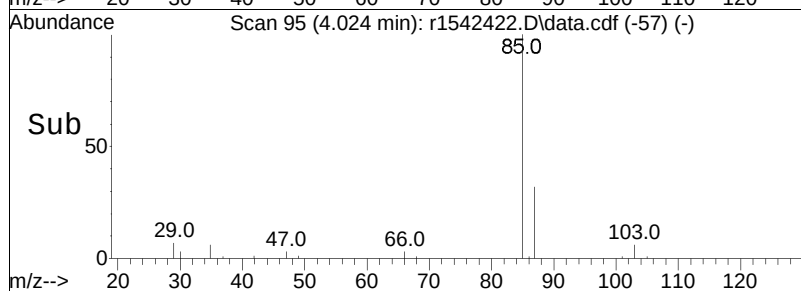
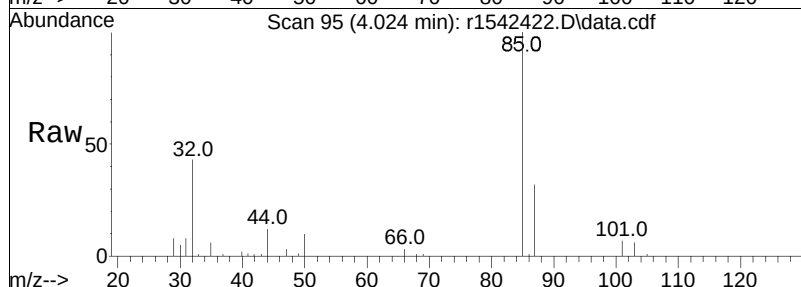
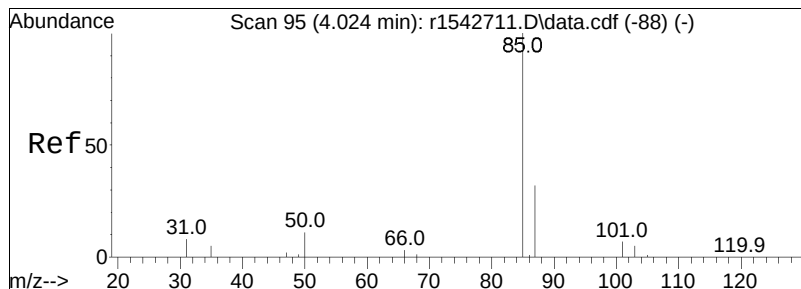
Quant Method : 0:\Forensics\Data\AirLab15\2024\01\0131T\TFS15_231120.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

QLast Update : Tue Nov 21 15:43:21 2023

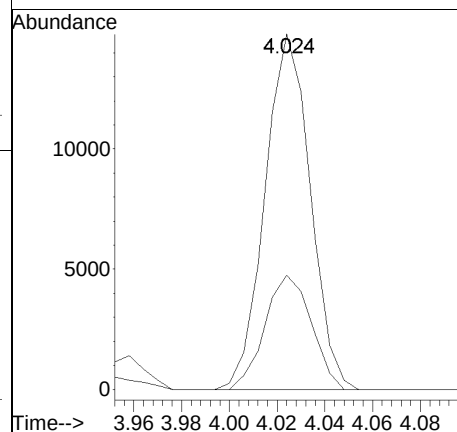
Response via : Initial Calibration

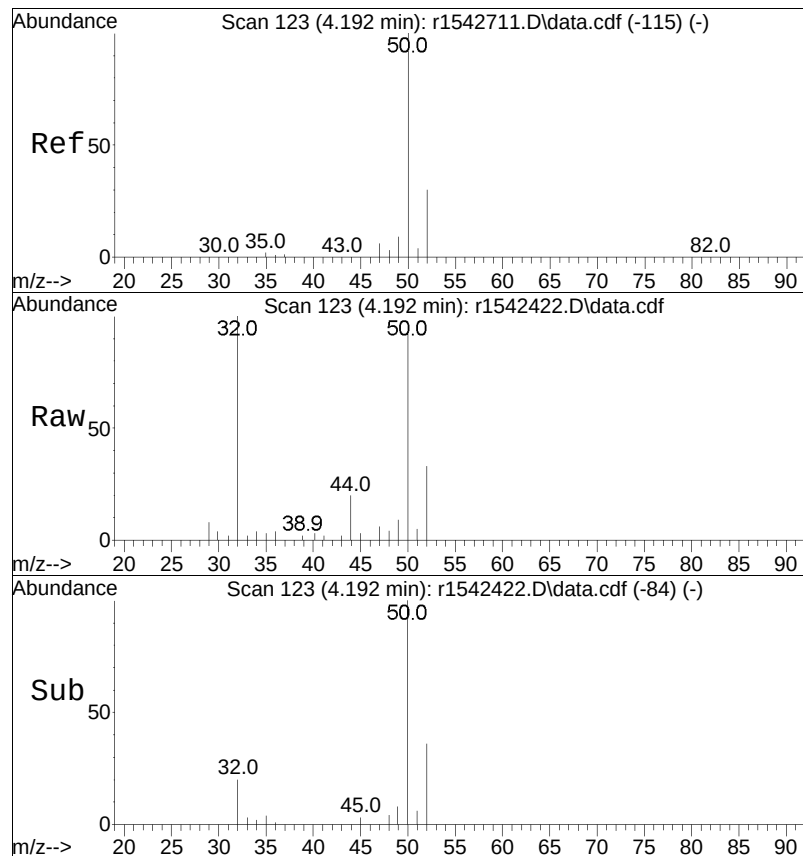




#5
dichlorodifluoromethane
Concen: 0.50 ppbV
RT: 4.024 min Scan# 95
Delta R.T. 0.030 min
Lab File: r1542422.D
Acq: 31 Jan 2024 8:17 PM

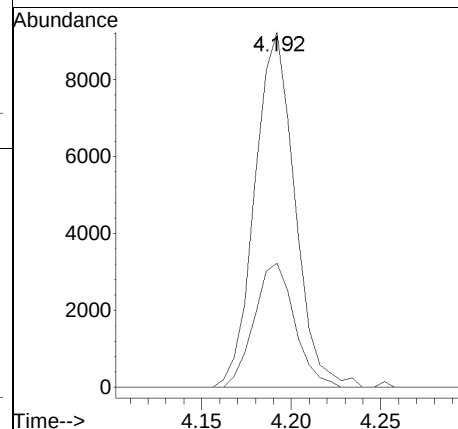
Tgt Ion: 85 Resp: 19479
Ion Ratio Lower Upper
85 100
87 32.1 26.1 39.1

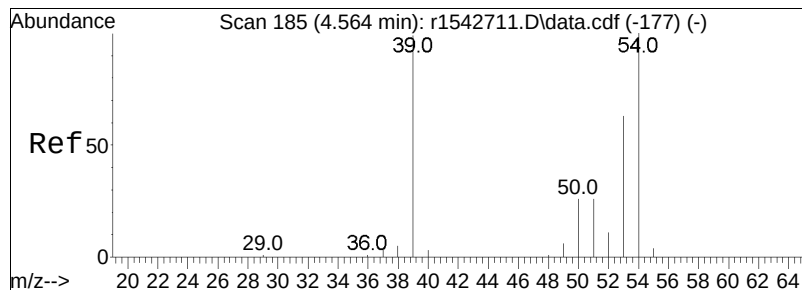




#6
 chloromethane
 Concen: 0.97 ppbV
 RT: 4.192 min Scan# 123
 Delta R.T. 0.036 min
 Lab File: r1542422.D
 Acq: 31 Jan 2024 8:17 PM

Tgt Ion	Ratio	Lower	Upper
50	100		
52	35.0	27.4	41.2





#10

1,3-butadiene

Concen: 0.04 ppbV

RT: 4.570 min Scan# 186

Delta R.T. 0.042 min

Lab File: r1542422.D

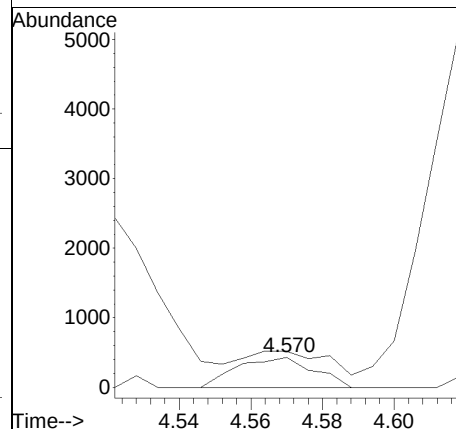
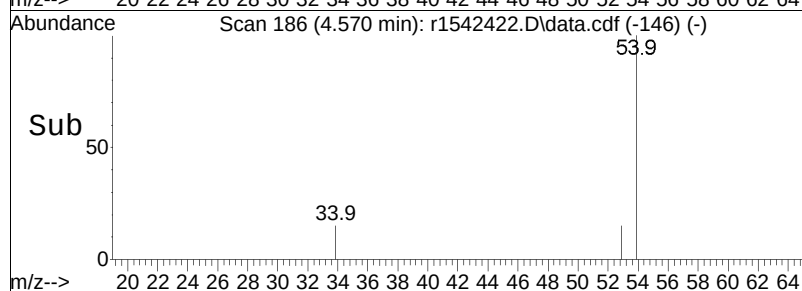
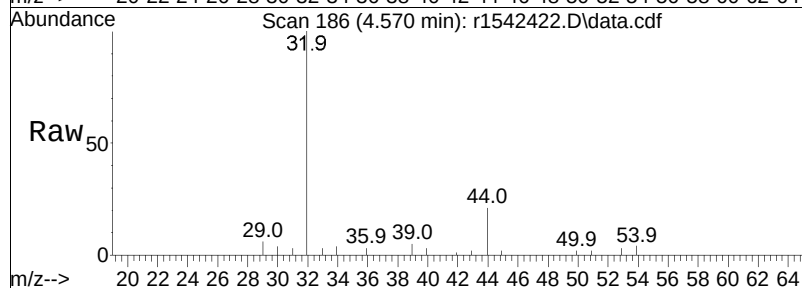
Acq: 31 Jan 2024 8:17 PM

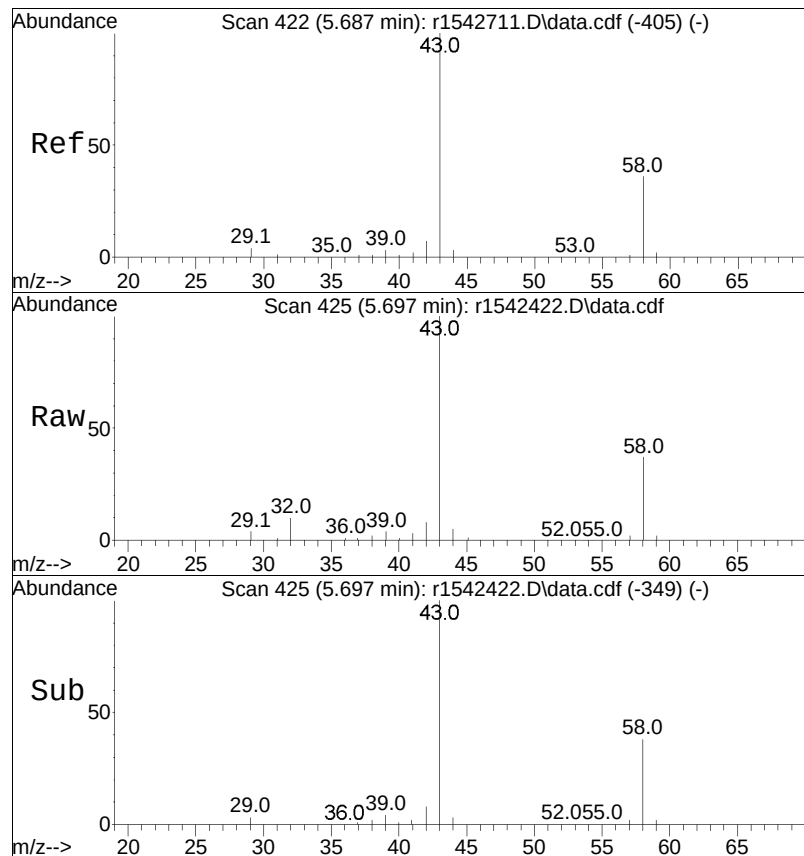
Tgt Ion: 54 Resp: 644

Ion Ratio Lower Upper

54 100

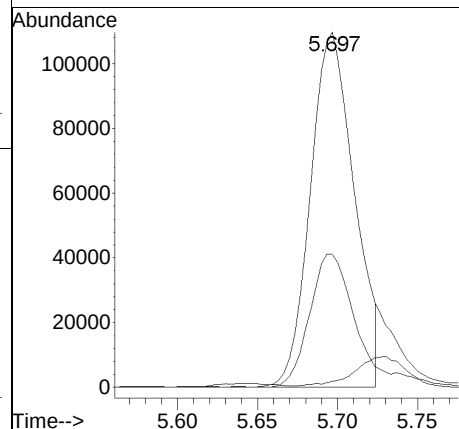
39 120.2 73.8 110.8#

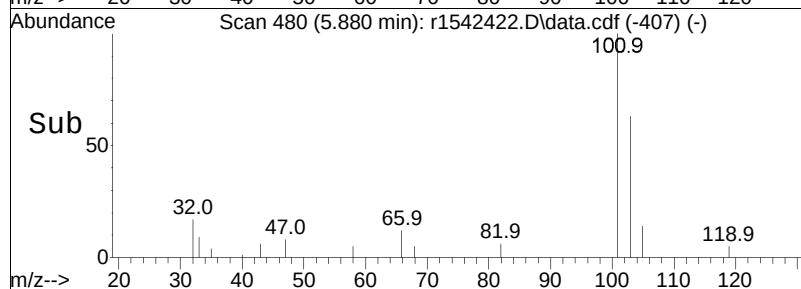
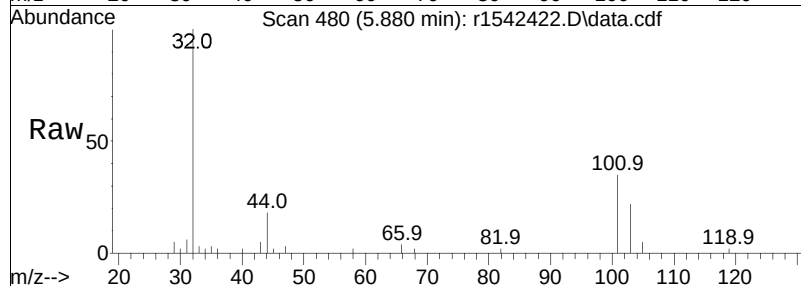
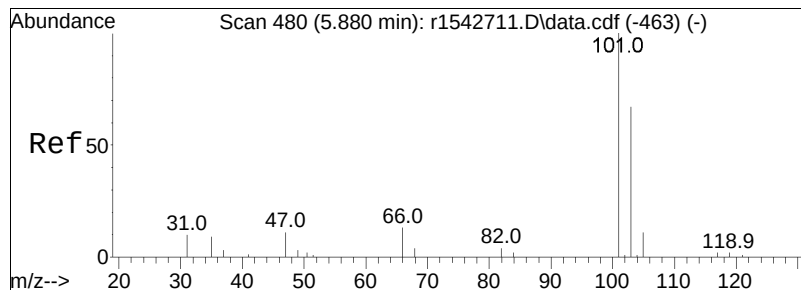




#19
 acetone
 Concen: 10.76 ppbV m
 RT: 5.697 min Scan# 425
 Delta R.T. 0.053 min
 Lab File: r1542422.D
 Acq: 31 Jan 2024 8:17 PM

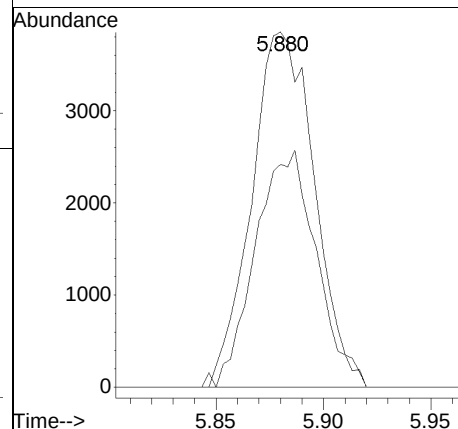
Tgt Ion:	43	Resp:	209707
Ion Ratio	Lower	Upper	
43	100		
58	37.5	39.0	58.4#
57	1.7	0.9	1.3#

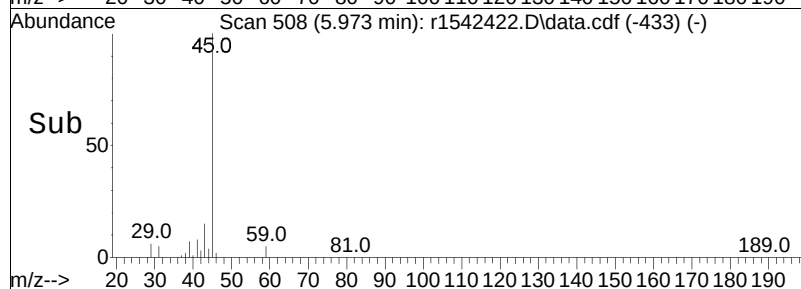
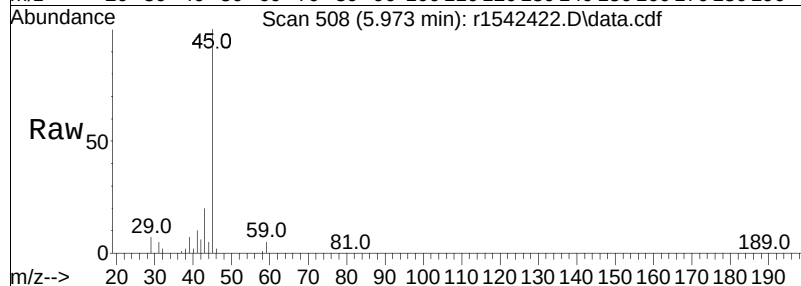
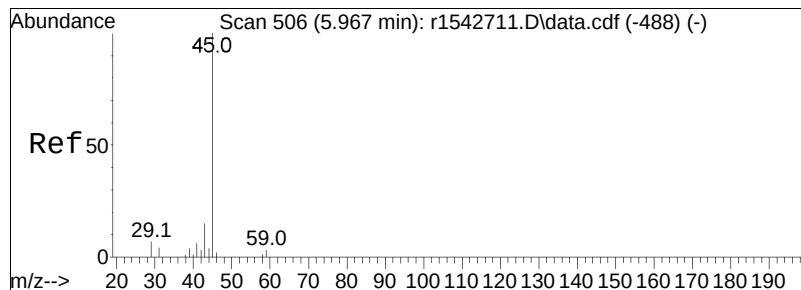




#21
trichlorofluoromethane
Concen: 0.27 ppbV
RT: 5.880 min Scan# 480
Delta R.T. 0.043 min
Lab File: r1542422.D
Acq: 31 Jan 2024 8:17 PM

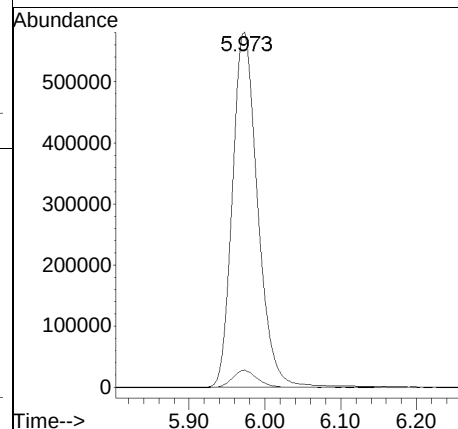
Tgt	Ion	Ratio	Lower	Upper
101	100			
103	62.8	49.4	74.0	

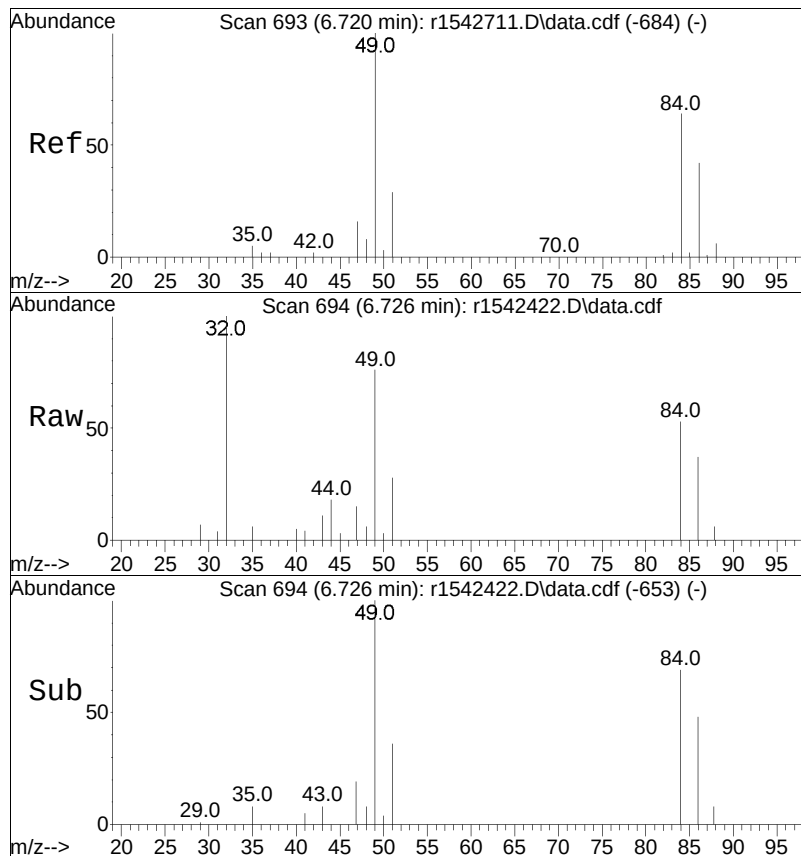




#22
isopropyl alcohol
Concen: 54.94 ppbV
RT: 5.973 min Scan# 508
Delta R.T. 0.050 min
Lab File: r1542422.D
Acq: 31 Jan 2024 8:17 PM

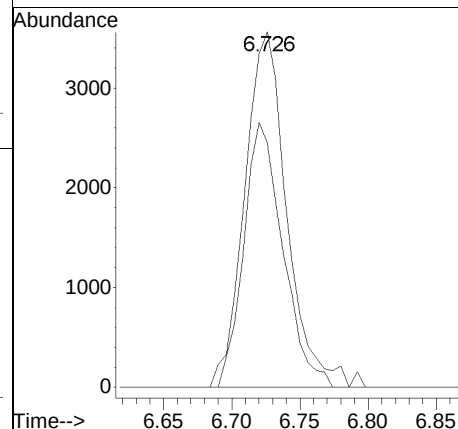
Tgt Ion	Ratio	Lower	Upper
45	100		
59	4.8	4.6	6.8

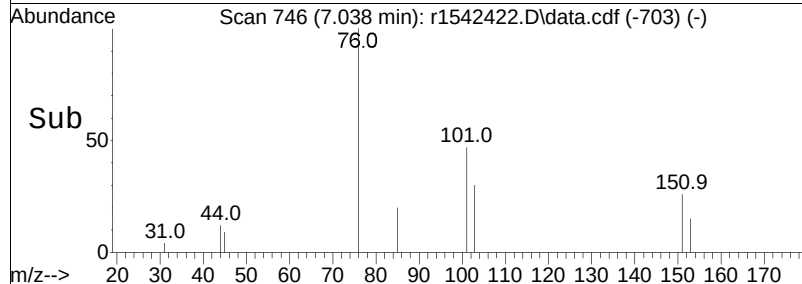
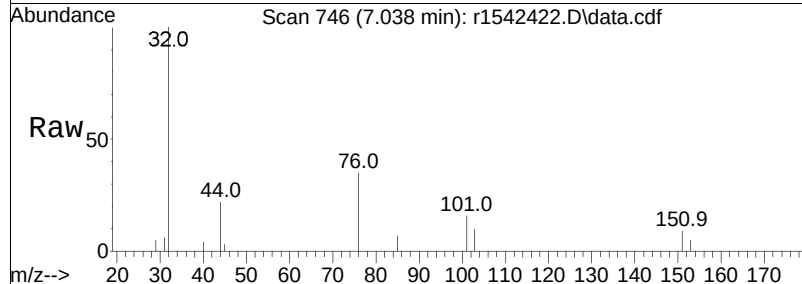
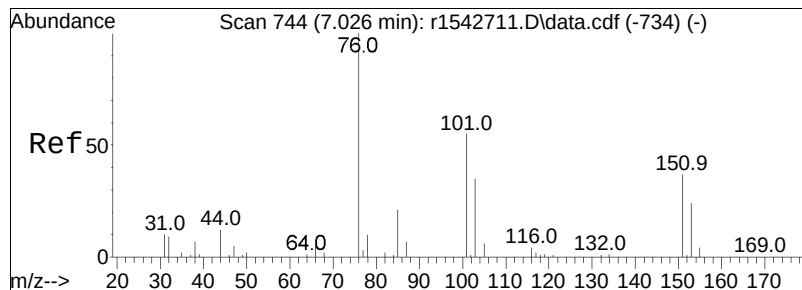




#28
 methylene chloride
 Concen: 0.29 ppbV
 RT: 6.726 min Scan# 694
 Delta R.T. 0.048 min
 Lab File: r1542422.D
 Acq: 31 Jan 2024 8:17 PM

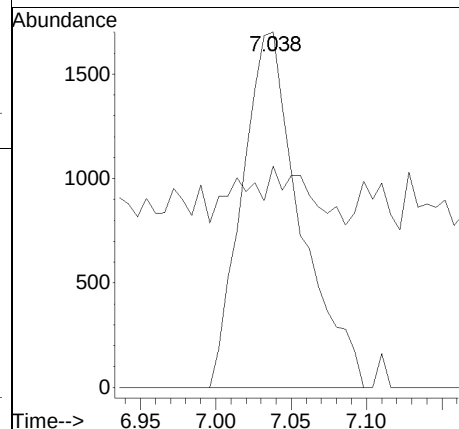
Tgt Ion:	49	84	Ratio	Lower	Upper
Resp:	7687				
Ion Ratio	100	68.8		61.2	91.8

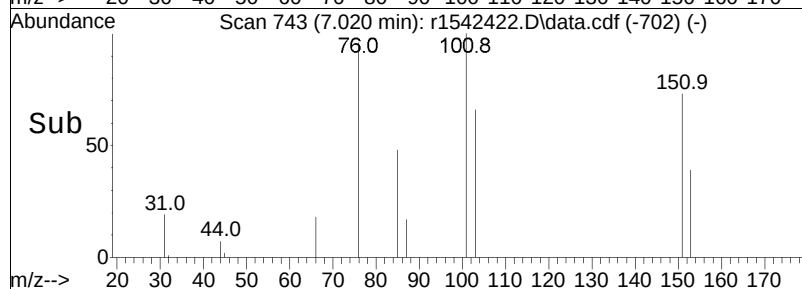
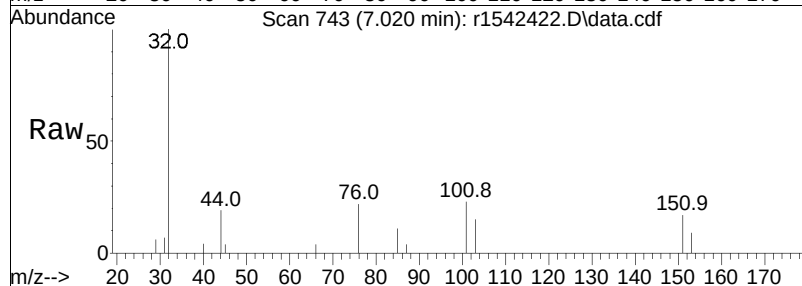
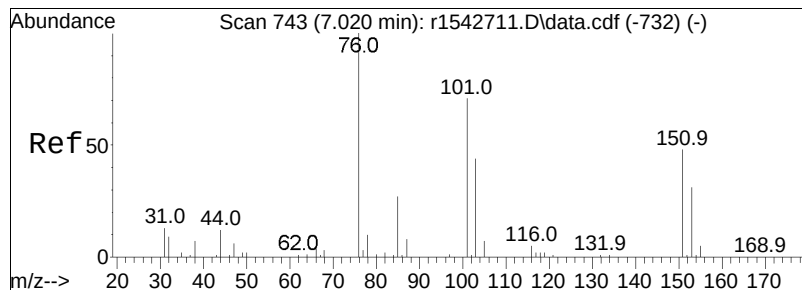




#30
 carbon disulfide
 Concen: 0.07 ppbV
 RT: 7.038 min Scan# 746
 Delta R.T. 0.060 min
 Lab File: r1542422.D
 Acq: 31 Jan 2024 8:17 PM

Tgt Ion	Ratio	Lower	Upper
76	100		
44	62.3	7.8	11.6#





#31

Freon 113

Concen: 0.07 ppbV

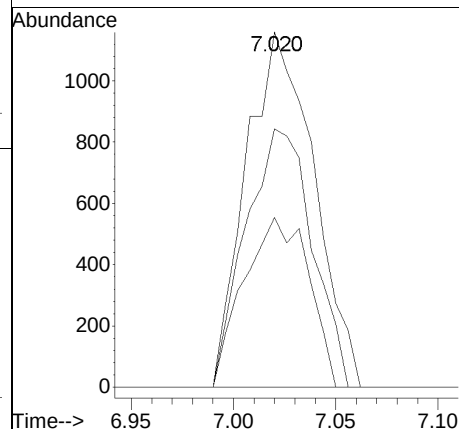
RT: 7.020 min Scan# 743

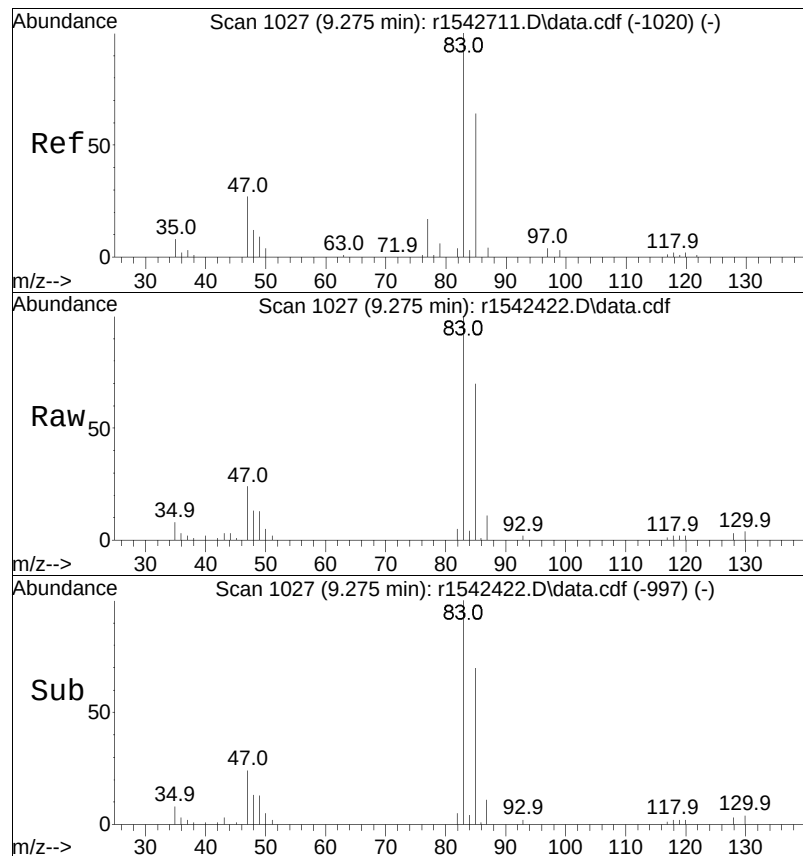
Delta R.T. 0.048 min

Lab File: r1542422.D

Acq: 31 Jan 2024 8:17 PM

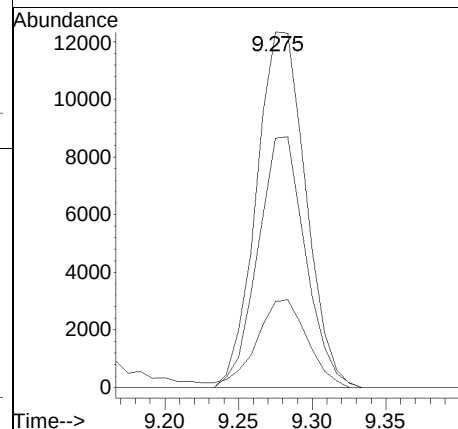
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	2670		
85	47.8		35.3	52.9
151	72.7		63.8	95.8

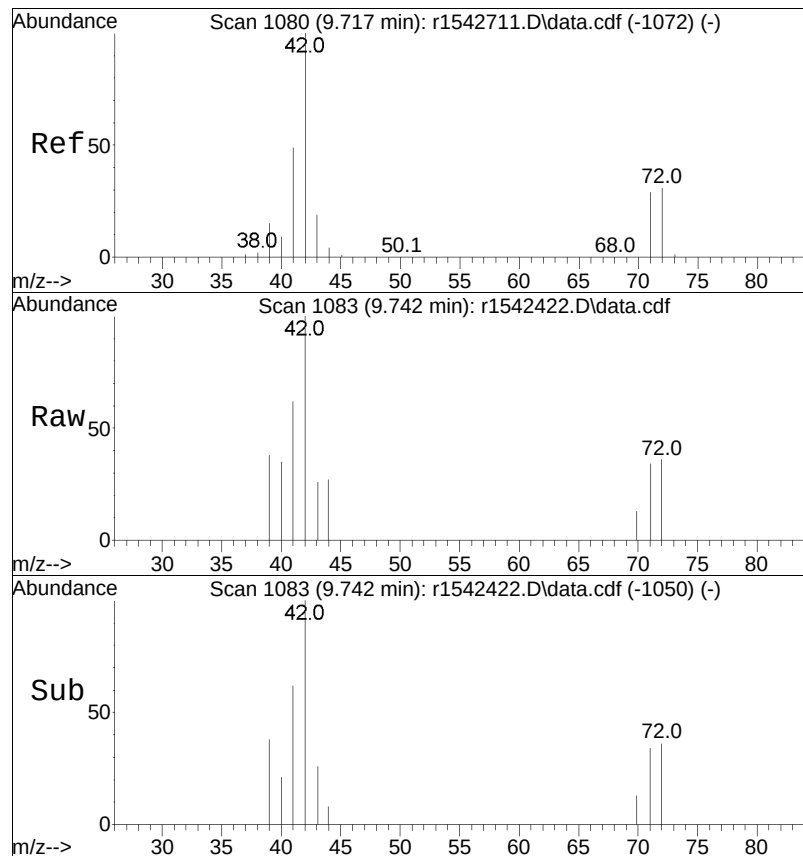




#39
 chloroform
 Concen: 0.68 ppbV
 RT: 9.275 min Scan# 1027
 Delta R.T. 0.050 min
 Lab File: r1542422.D
 Acq: 31 Jan 2024 8:17 PM

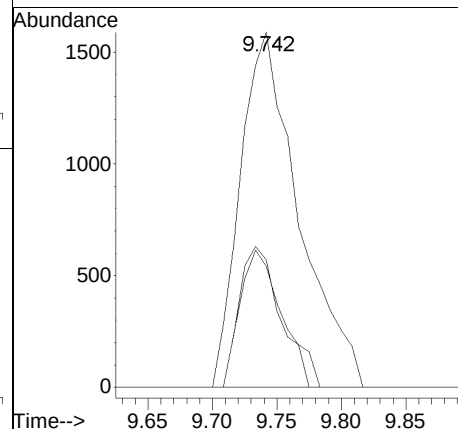
Tgt Ion	Ratio	Lower	Upper
83	100		
85	70.2	51.5	77.3
47	24.1	15.9	23.9

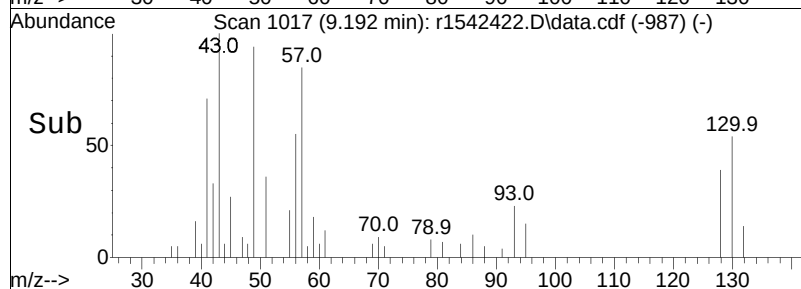
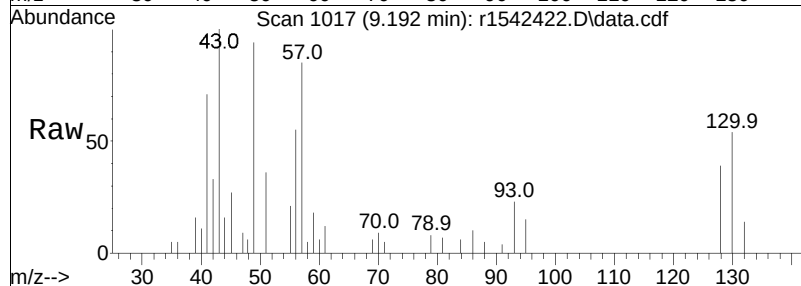
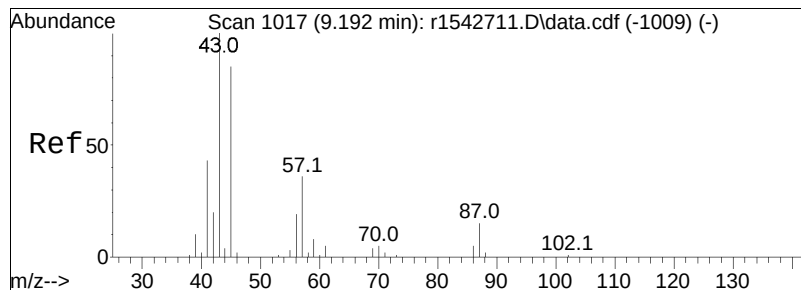




#40
Tetrahydrofuran
Concen: 0.18 ppbV
RT: 9.742 min Scan# 1083
Delta R.T. 0.075 min
Lab File: r1542422.D
Acq: 31 Jan 2024 8:17 PM

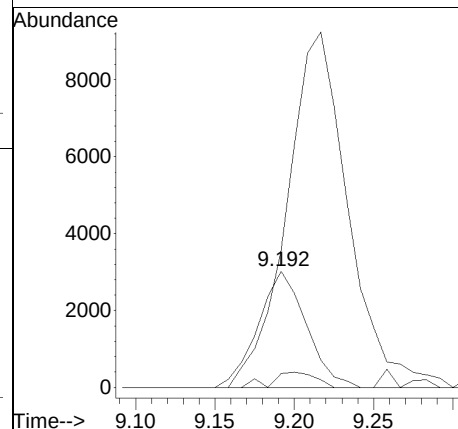
Tgt Ion:	42	Resp:	5017
Ion Ratio	Lower	Upper	
42	100		
71	34.1	30.6	46.0
72	35.8	32.5	48.7

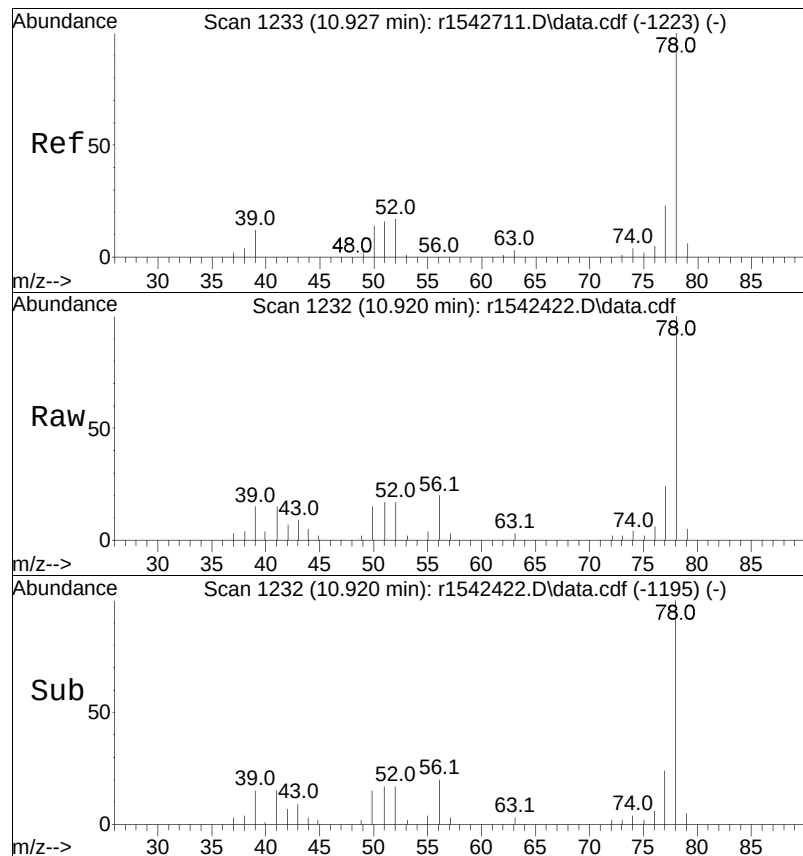




#44
hexane
Concen: 0.16 ppbV
RT: 9.192 min Scan# 1017
Delta R.T. 0.050 min
Lab File: r1542422.D
Acq: 31 Jan 2024 8:17 PM

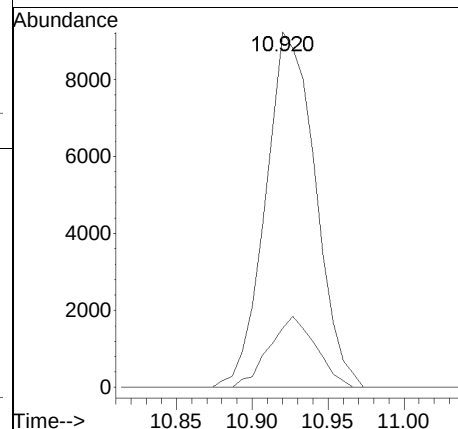
Tgt	Ion	Resp	Lower	Upper
57	100	6382		
43	118.0	146.8	220.2#	
86	11.9	12.7	19.1#	

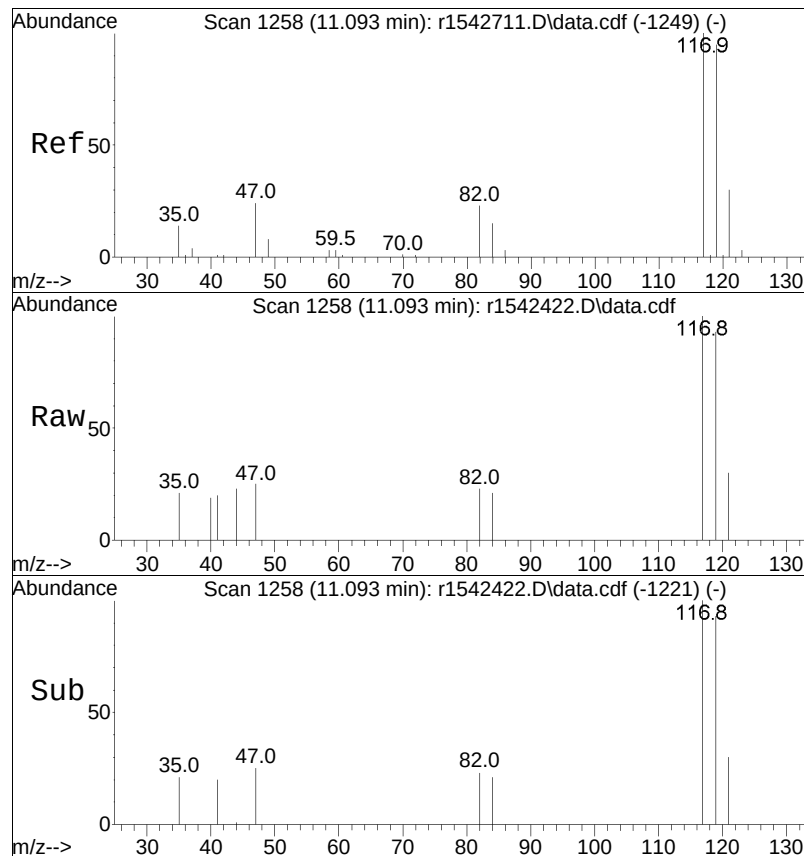




#50
benzene
Concen: 0.29 ppbV
RT: 10.920 min Scan# 1232
Delta R.T. 0.047 min
Lab File: r1542422.D
Acq: 31 Jan 2024 8:17 PM

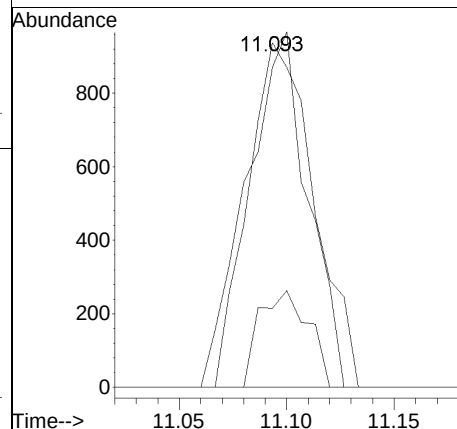
Tgt Ion	Ratio	Lower	Upper
78	100		
52	16.7	14.1	21.1

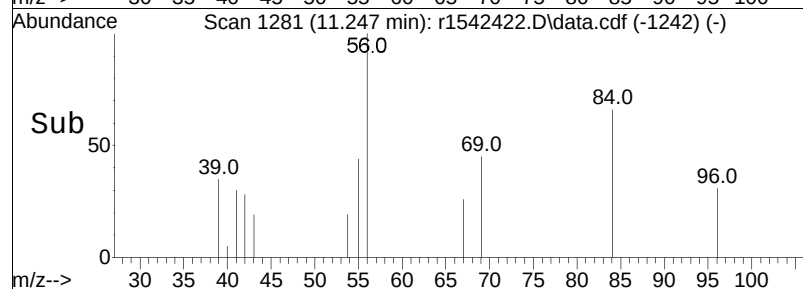
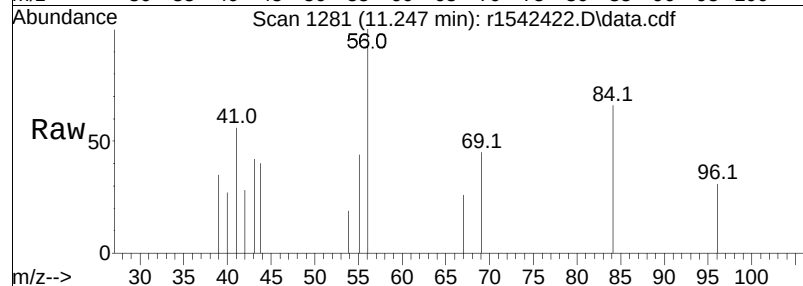
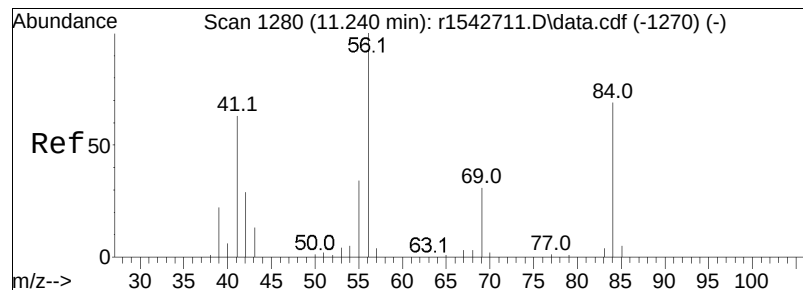




#52
 carbon tetrachloride
 Concen: 0.07 ppbV
 RT: 11.093 min Scan# 1258
 Delta R.T. 0.047 min
 Lab File: r1542422.D
 Acq: 31 Jan 2024 8:17 PM

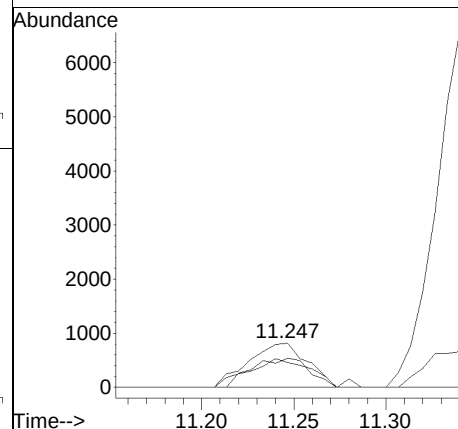
Tgt Ion:	117	Resp:	2008
Ion Ratio	Lower	Upper	
117	100		
119	92.8	77.1	115.7
82	22.9	17.2	25.8

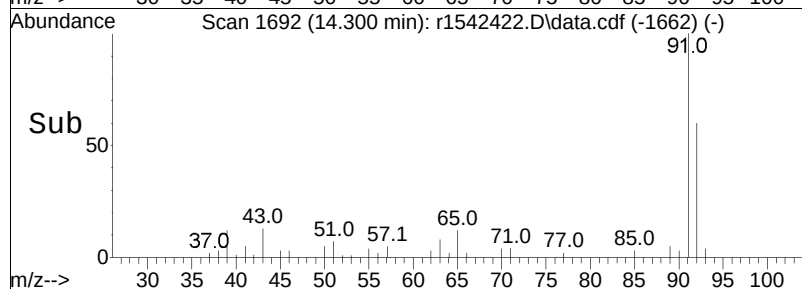
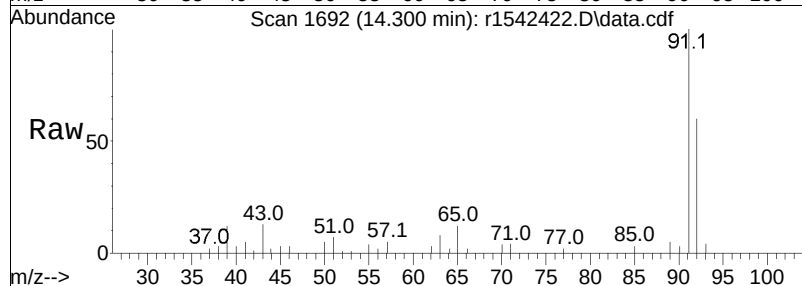
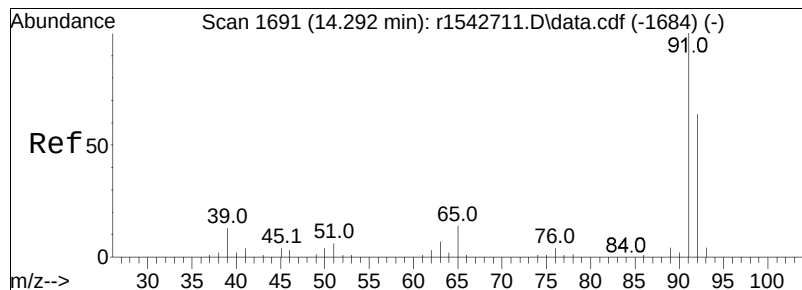




#53
cyclohexane
Concen: 0.04 ppbV
RT: 11.247 min Scan# 1281
Delta R.T. 0.060 min
Lab File: r1542422.D
Acq: 31 Jan 2024 8:17 PM

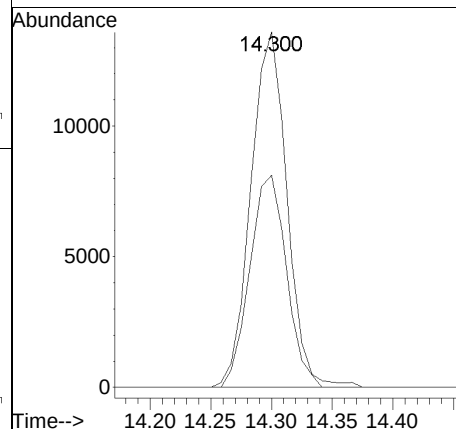
Tgt Ion	Ratio	Lower	Upper
56	100		
84	66.2	60.2	90.2
41	56.3	33.5	50.3#

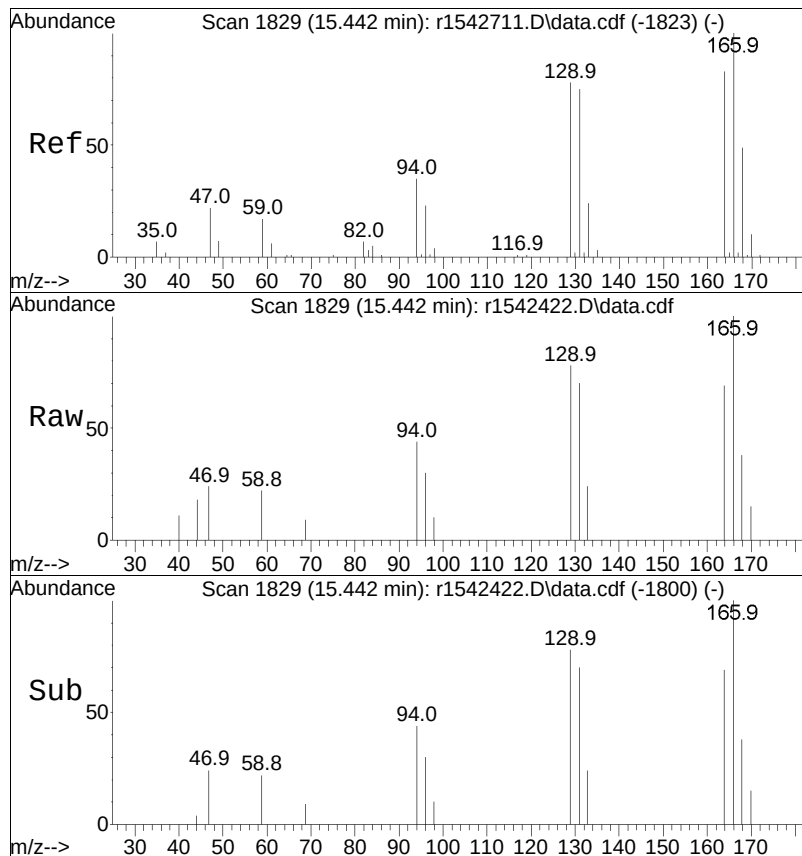




#68
toluene
Concen: 0.28 ppbV
RT: 14.300 min Scan# 1692
Delta R.T. 0.050 min
Lab File: r1542422.D
Acq: 31 Jan 2024 8:17 PM

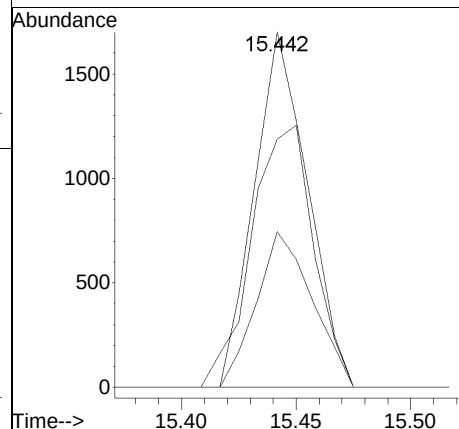
Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.7	51.0	76.4

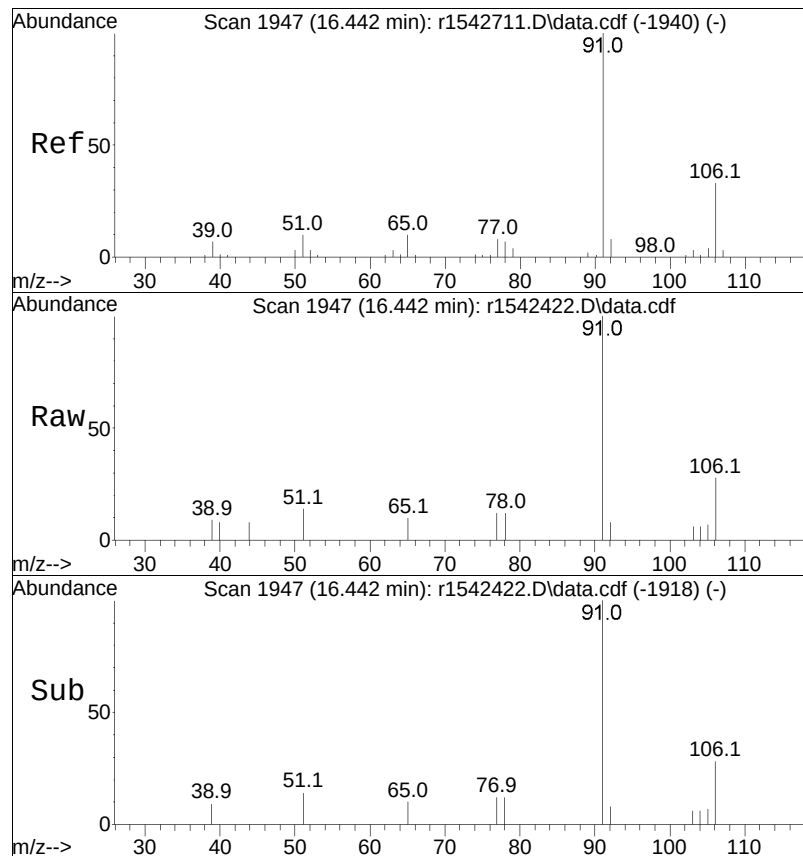




#78
 tetrachloroethene
 Concen: 0.07 ppbV
 RT: 15.442 min Scan# 1829
 Delta R.T. 0.042 min
 Lab File: r1542422.D
 Acq: 31 Jan 2024 8:17 PM

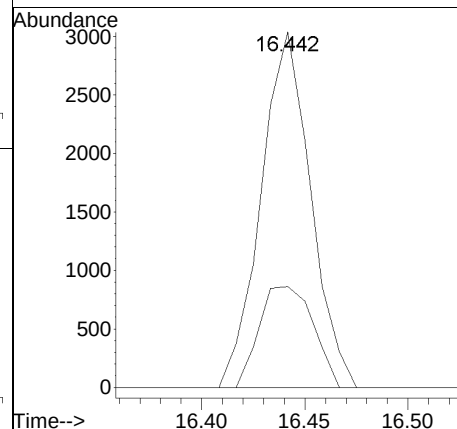
Tgt	Ion	Ratio	Resp	Lower	Upper
166	100		2760		
131	69.8	55.6		83.4	
94	43.8	25.4		38.2#	

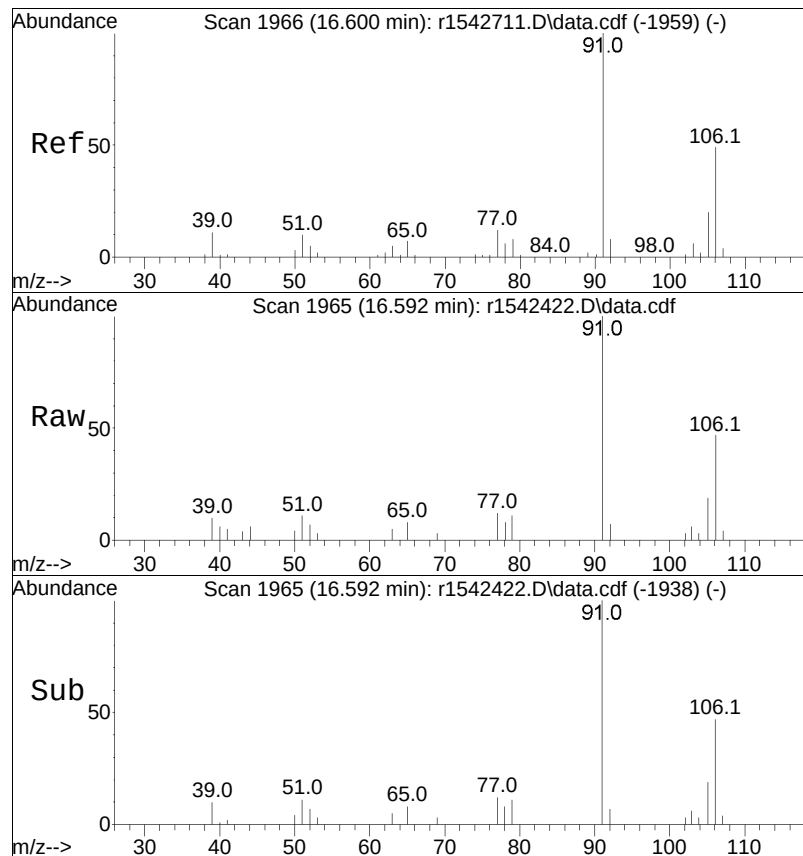




#81
ethylbenzene
Concen: 0.04 ppbV
RT: 16.442 min Scan# 1947
Delta R.T. 0.042 min
Lab File: r1542422.D
Acq: 31 Jan 2024 8:17 PM

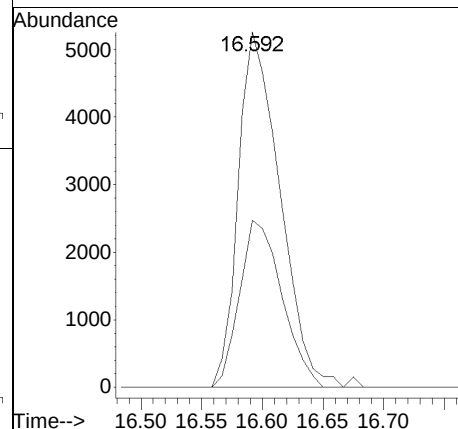
Tgt	Ion	Resp	Lower	Upper
91	100	5079		
106	28.4	27.7	41.5	

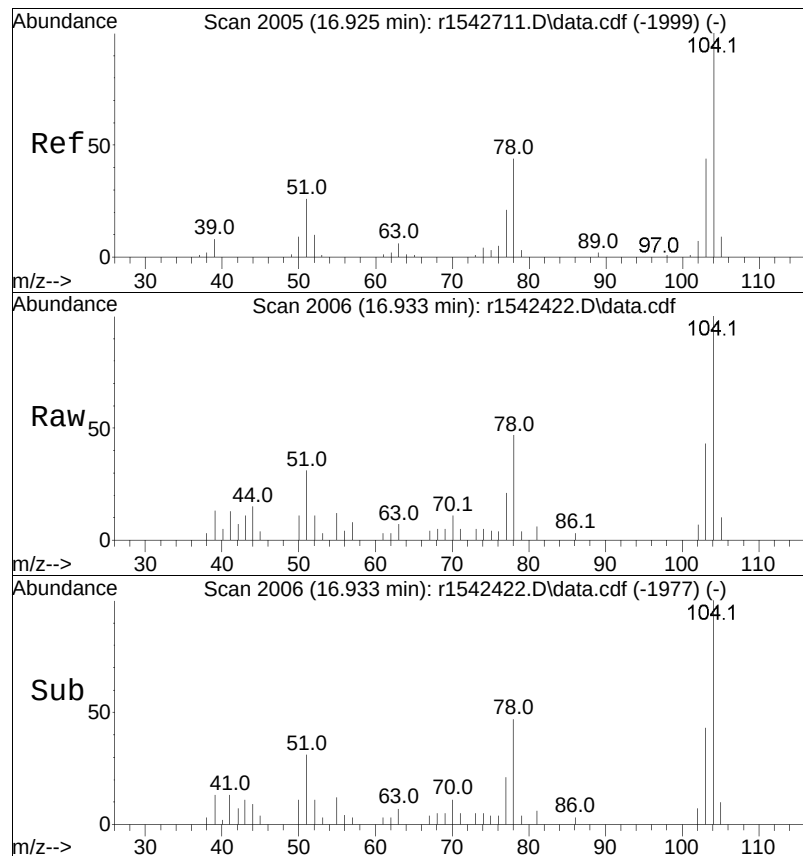




#83
 m+p-xylene
 Concen: 0.12 ppbV
 RT: 16.592 min Scan# 1965
 Delta R.T. 0.025 min
 Lab File: r1542422.D
 Acq: 31 Jan 2024 8:17 PM

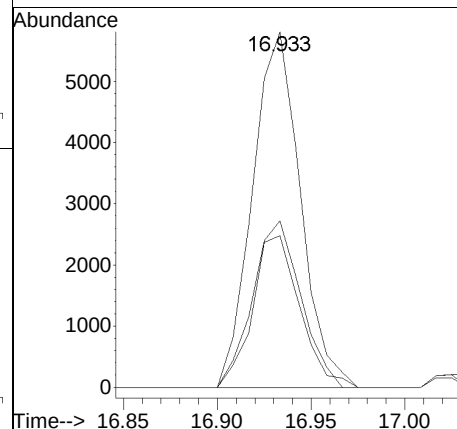
Tgt	Ion	Resp	Lower	Upper
91	100	12619		
106	47.1	42.7	64.1	

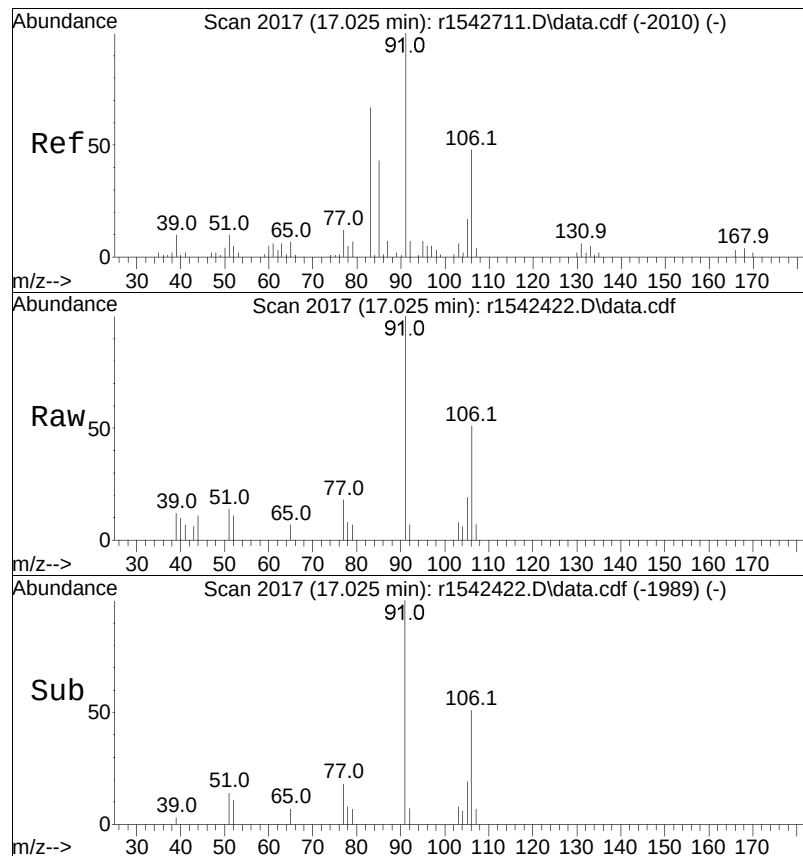




#85
styrene
Concen: 0.12 ppbV
RT: 16.933 min Scan# 2006
Delta R.T. 0.042 min
Lab File: r1542422.D
Acq: 31 Jan 2024 8:17 PM

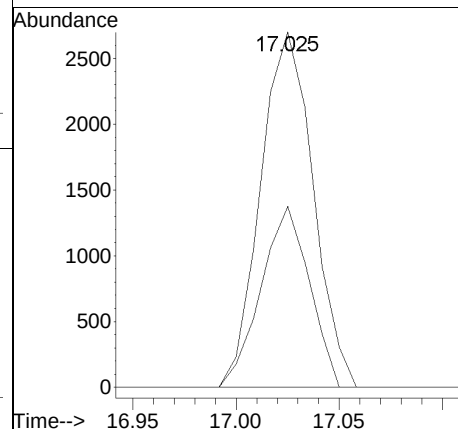
Tgt	Ion	Ratio	Lower	Upper
104	104	100		
103	103	42.7	34.9	52.3
78	78	46.9	36.2	54.4





#87
 o-xylene
 Concen: 0.05 ppbV
 RT: 17.025 min Scan# 2017
 Delta R.T. 0.033 min
 Lab File: r1542422.D
 Acq: 31 Jan 2024 8:17 PM

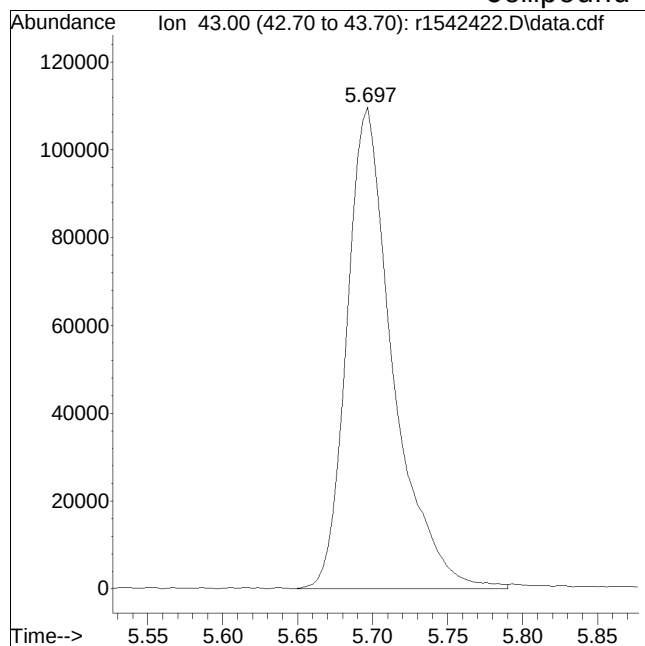
Tgt Ion	Ratio	Lower	Upper
91	100		
106	50.9	40.0	60.0



Manual Integration Report

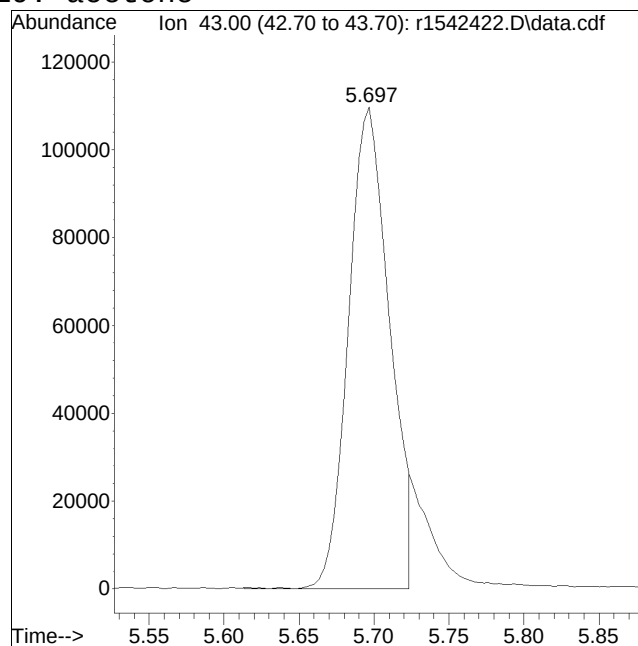
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1542422.D Operator : AIRLAB15:JMB
Date Inj'd : 1/31/2020 0:8: 7 Instrument :
Sample : L2403288-11,3,250,250 Quant Date : 2/1/2024 1:38 pm

Compound #19: acetone



Original Peak Response = 234768

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



Manual Peak Response = 209707 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542423.D
 Acq On : 31 Jan 2024 8:56 PM
 Operator : AIRLAB15:JMB
 Sample : L2403288-01,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 06:47:51 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131T\r1542413.D
 Sub List : PADEP-T015 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.133	49	357817	10.000	ppbV	0.06
Standard Area = 375210			Recovery =	95.36%		
43) 1,4-difluorobenzene	11.340	114	915061	10.000	ppbV	0.05
Standard Area = 971110			Recovery =	94.23%		
67) chlorobenzene-D5	16.050	54	182810	10.000	ppbV	0.04
Standard Area = 187857			Recovery =	97.31%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	4.030	85	19911	0.489	ppbV	98
6) chloromethane	4.192	50	7118	0.465	ppbV	97
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	4.570	54	532	0.036	ppbV	96
13) bromomethane	0.000		0	N.D.		
14) chloroethane	5.050		0	N.D.		
17) vinyl bromide	5.437		0	N.D.		
18) acrolein	5.557	56	2839M4	0.341	ppbV	
19) acetone	5.697	43	283766M6	14.050	ppbV	
21) trichlorofluoromethane	5.890	101	7453	0.245	ppbV	96
22) isopropyl alcohol	5.997	45	88145	3.464	ppbV	97
23) acrylonitrile	6.223	53	3115	0.172	ppbV	99
26) 1,1-dichloroethene	6.660		0	N.D.		
28) methylene chloride	6.732	49	4854	0.176	ppbV	90
29) 3-chloropropene	0.000		0	N.D.	d	
30) carbon disulfide	7.032	76	13347	0.206	ppbV #	1
31) Freon 113	7.026	101	2682	0.067	ppbV #	85
32) trans-1,2-dichloroethene	7.775		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	8.083		0	N.D.		
37) cis-1,2-dichloroethene	0.000		0	N.D.		
39) chloroform	9.283	83	1750	0.040	ppbV #	92
40) Tetrahydrofuran	9.742	42	10232	0.344	ppbV	97
42) 1,2-dichloroethane	10.108		0	N.D.		
44) hexane	9.192	57	15293	0.382	ppbV #	22
48) 1,1,1-trichloroethane	0.000		0	N.D.		
50) benzene	10.927	78	140820	1.901	ppbV	98
52) carbon tetrachloride	11.100	117	1970	0.071	ppbV	85

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542423.D
 Acq On : 31 Jan 2024 8:56 PM
 Operator : AIRLAB15:JMB
 Sample : L2403288-01,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 06:47:51 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131T\r1542413.D
 Sub List : PADEP-T015 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
53) cyclohexane	11.247	56	3656	0.084	ppbV	#	77
56) 1,2-dichloropropane	0.000		0	N.D.			
57) bromodichloromethane	0.000		0	N.D.	d		
58) 1,4-dioxane	0.000		0	N.D.			
59) trichloroethene	12.153		0	N.D.			
61) methyl methacrylate	0.000		0	N.D.	d		
64) 4-methyl-2-pentanone	13.242		0	N.D.			
66) 1,1,2-trichloroethane	13.858		0	N.D.			
68) toluene	14.300	91	76591	0.731	ppbV		98
71) 1,3-dichloropropane	14.292		0	N.D.			
74) dibromochloromethane	0.000		0	N.D.			
75) 1,2-dibromoethane	0.000		0	N.D.			
78) tetrachloroethene	15.442	166	2551	0.061	ppbV	#	81
80) chlorobenzene	16.100		0	N.D.			
81) ethylbenzene	16.442	91	7171	0.053	ppbV		94
83) m+p-xylene	16.592	91	18730	0.177	ppbV		93
84) bromoform	0.000		0	N.D.			
85) styrene	16.933	104	3906	0.046	ppbV		93
86) 1,1,2,2-tetrachloroethane	16.933		0	N.D.			
87) o-xylene	17.025	91	6796	0.064	ppbV		94
91) isopropylbenzene	17.542		0	N.D.			
97) 1,3,5-trimethylbenzene	18.158		0	N.D.			
99) 1,2,4-trimethylbenzene	18.508	105	4951	0.042	ppbV	#	57
101) Benzyl Chloride	18.625		0	N.D.			
103) 1,4-dichlorobenzene	18.692		0	N.D.			
107) 1,2-dichlorobenzene	18.983		0	N.D.			
115) 1,2,4-trichlorobenzene	0.000		0	N.D.			
116) naphthalene	20.608		0	N.D.			

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

Sub List : PADEP-T015 - .ata\Airlab15\2024\01\0131T\r1542413.D

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\

Data File : r1542423.D

Acq On : 31 Jan 2024 8:56 PM

Operator : AIRLAB15:JMB

Sample : L2403288-01,3,250,250

Misc : WG1880230,ICAL20574

ALS Vial : 0 Sample Multiplier: 1

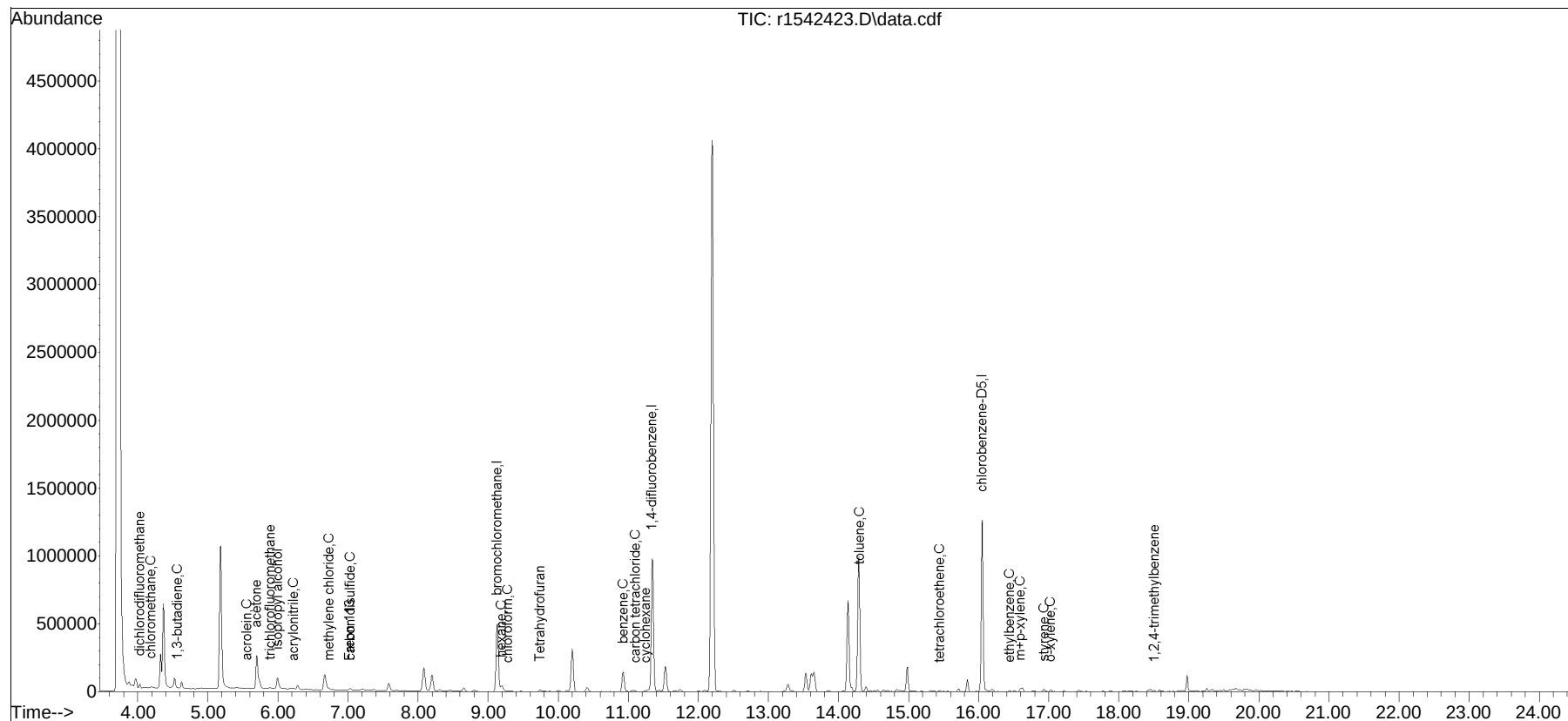
Quant Time: Feb 01 06:47:51 2024

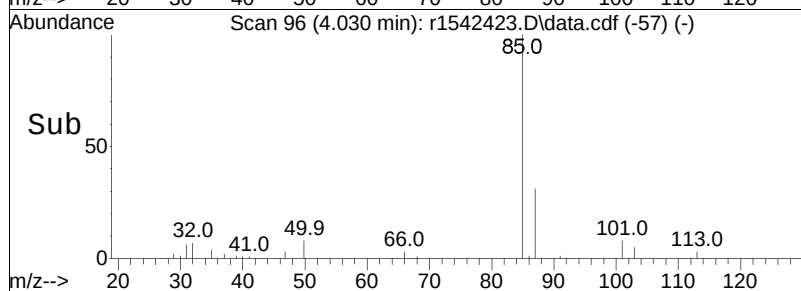
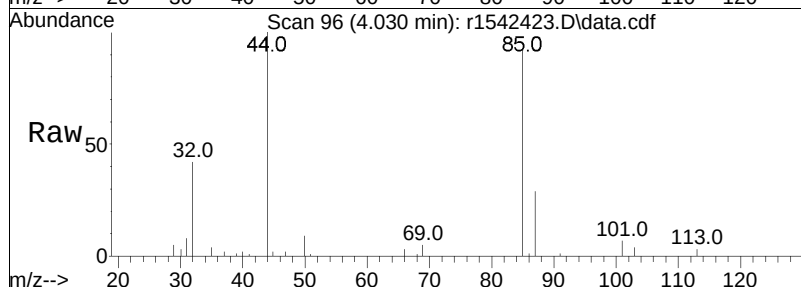
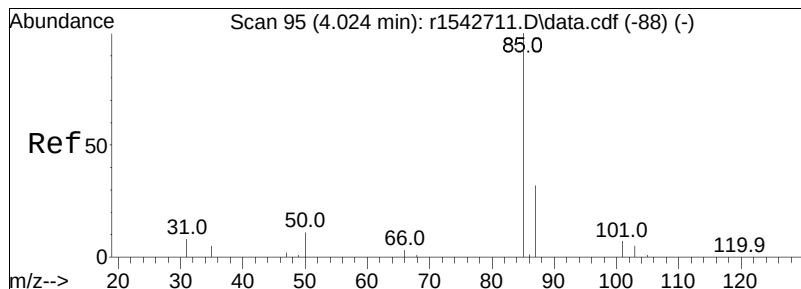
Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

QLast Update : Tue Nov 21 15:43:21 2023

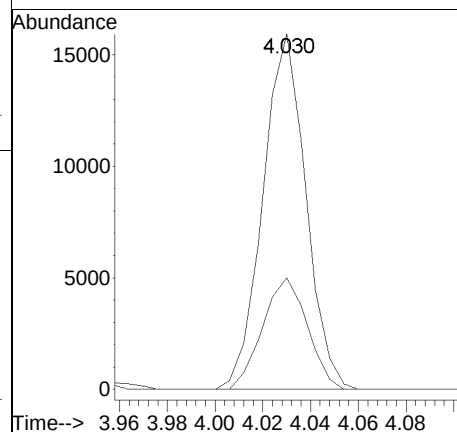
Response via : Initial Calibration

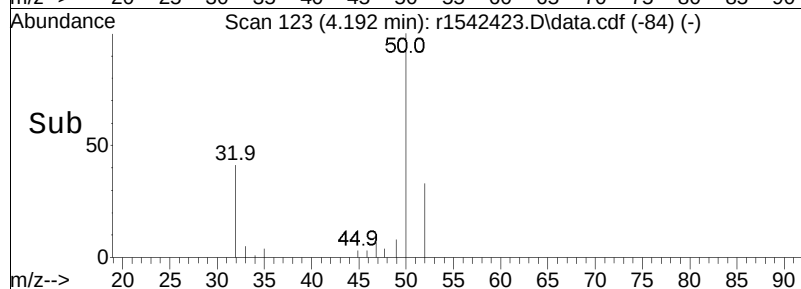
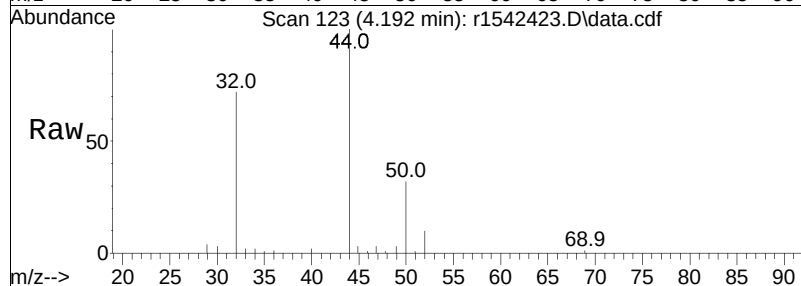
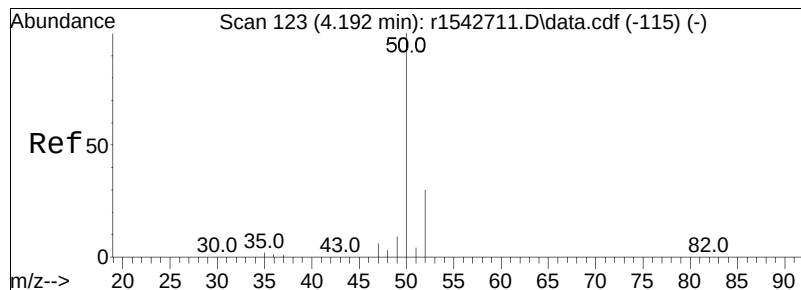




#5
dichlorodifluoromethane
Concen: 0.49 ppbV
RT: 4.030 min Scan# 96
Delta R.T. 0.036 min
Lab File: r1542423.D
Acq: 31 Jan 2024 8:56 PM

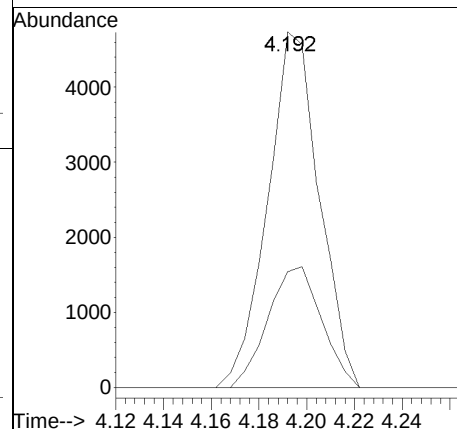
Tgt Ion: 85 Resp: 19911
Ion Ratio Lower Upper
85 100
87 31.4 26.1 39.1

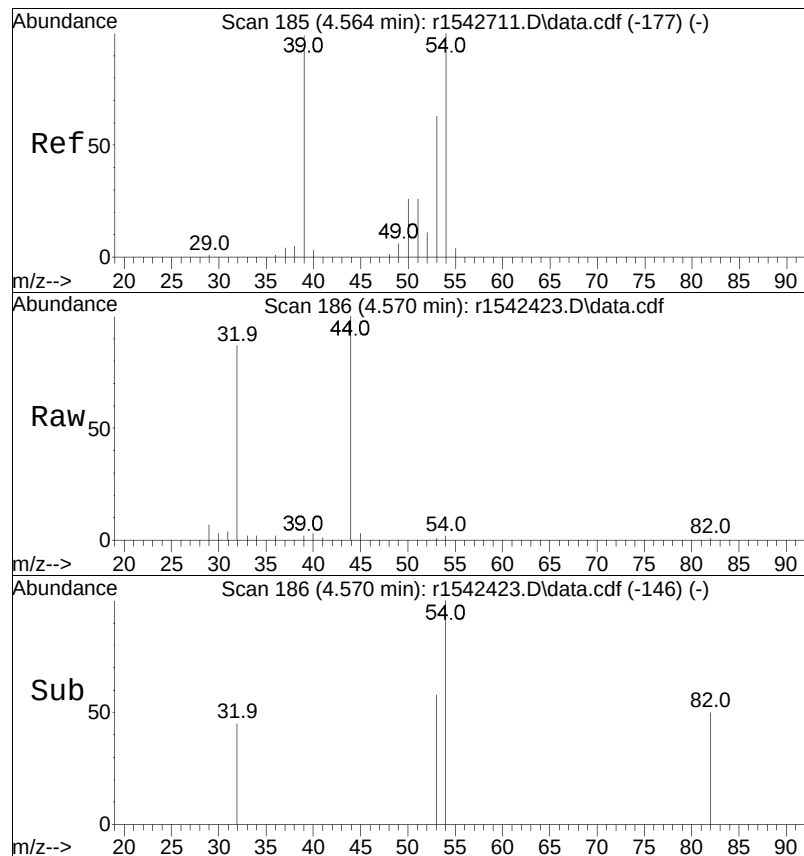




#6
 chloromethane
 Concen: 0.46 ppbV
 RT: 4.192 min Scan# 123
 Delta R.T. 0.036 min
 Lab File: r1542423.D
 Acq: 31 Jan 2024 8:56 PM

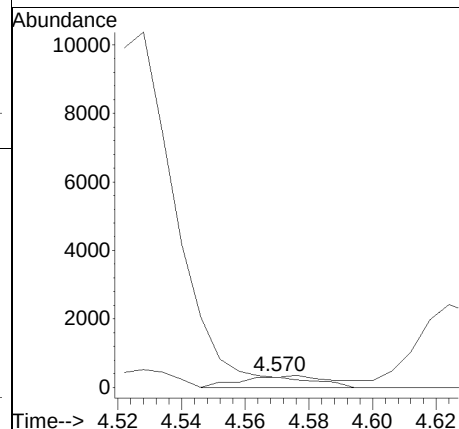
Tgt	Ion	Resp	Lower	Upper
50	100	7118		
52	32.6		27.4	41.2

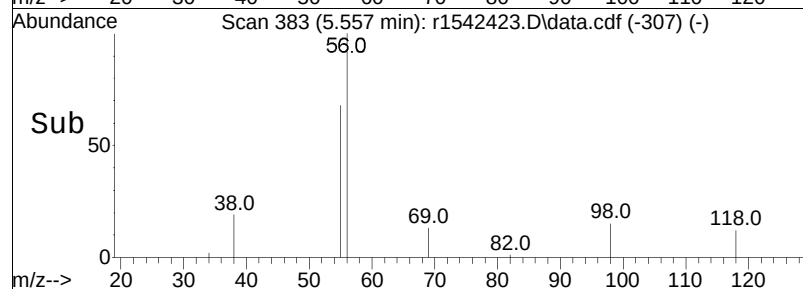
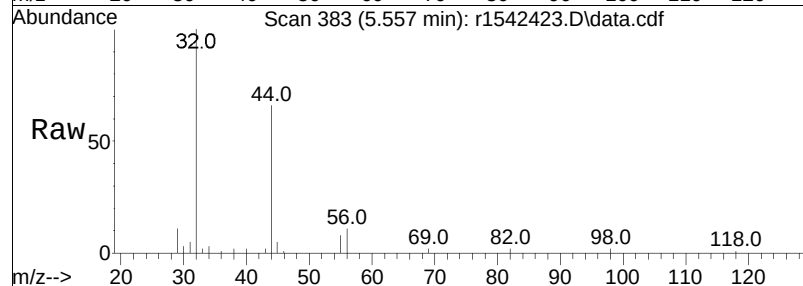
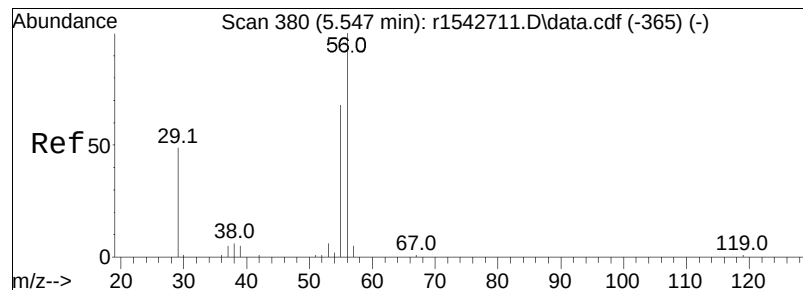




#10
 1,3-butadiene
 Concen: 0.04 ppbV
 RT: 4.570 min Scan# 186
 Delta R.T. 0.042 min
 Lab File: r1542423.D
 Acq: 31 Jan 2024 8:56 PM

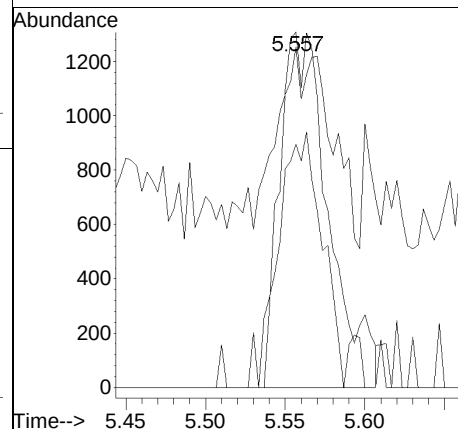
Tgt Ion	Ratio	Lower	Upper
54	100		
39	95.7	73.8	110.8

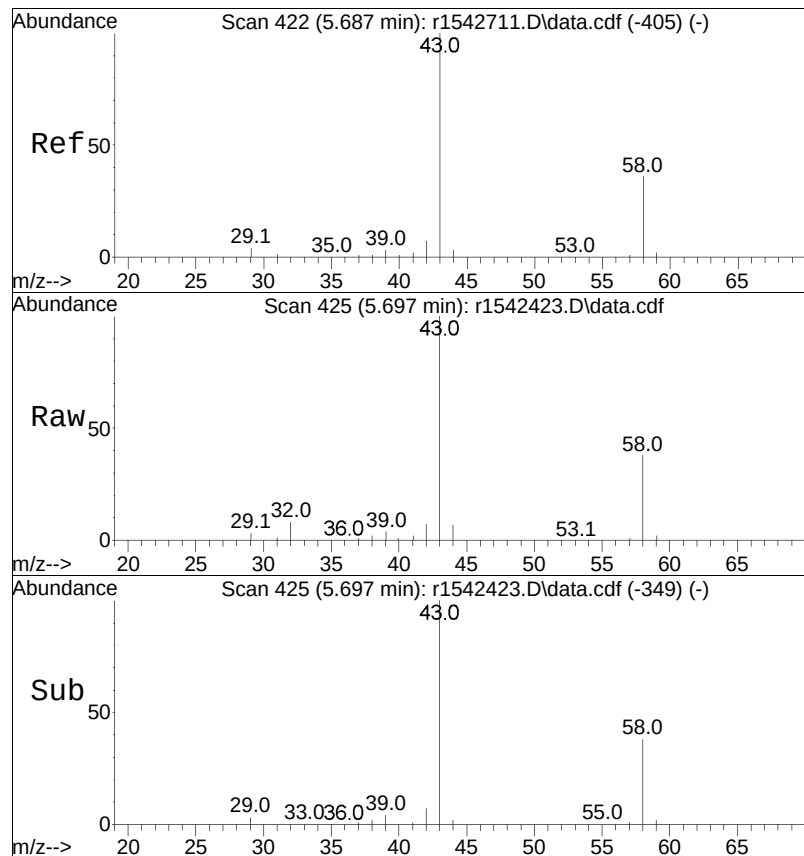




#18
acrolein
Concen: 0.34 ppbV m
RT: 5.557 min Scan# 383
Delta R.T. 0.053 min
Lab File: r1542423.D
Acq: 31 Jan 2024 8:56 PM

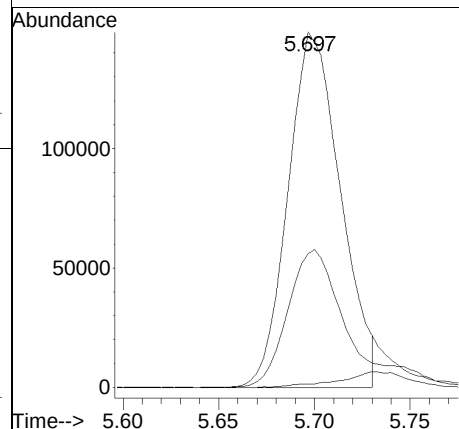
Tgt Ion	Ratio	Lower	Upper
56	100		
55	68.4	52.3	78.5
29	95.7	28.6	43.0

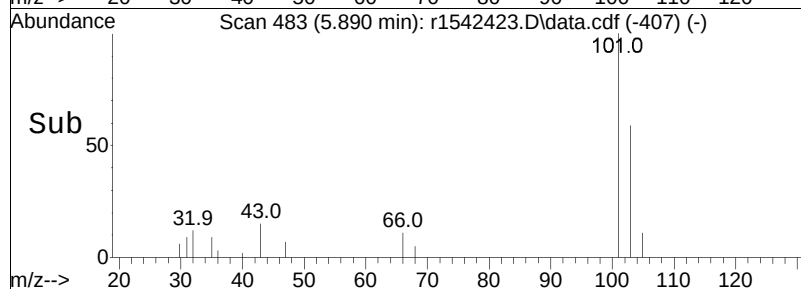
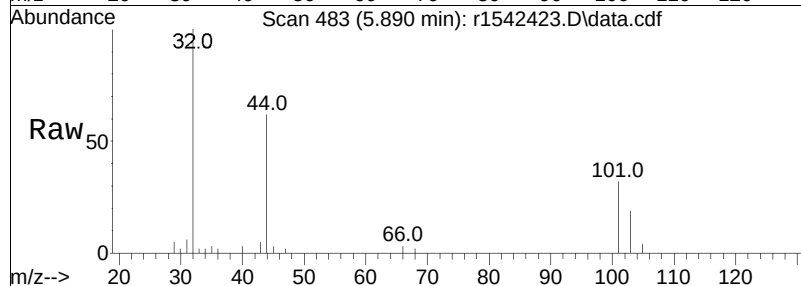
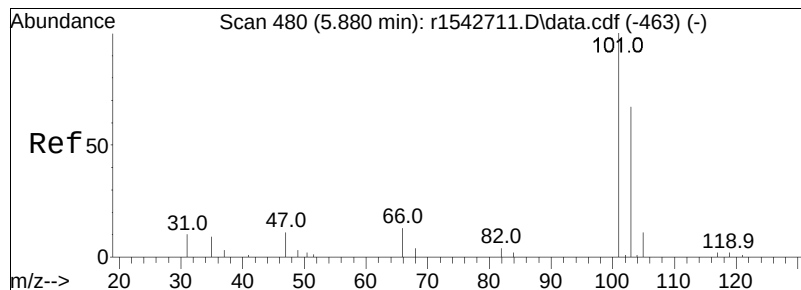




#19
 acetone
 Concen: 14.05 ppbV m
 RT: 5.697 min Scan# 425
 Delta R.T. 0.053 min
 Lab File: r1542423.D
 Acq: 31 Jan 2024 8:56 PM

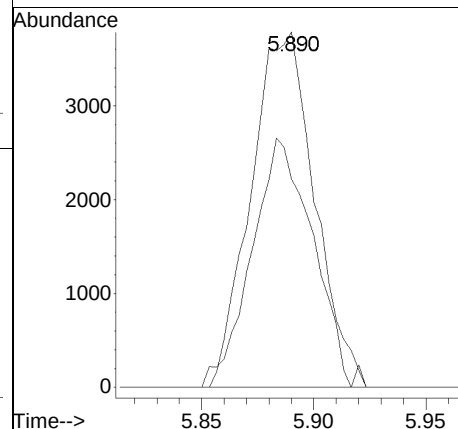
Tgt Ion:	43	Resp:	283766
Ion Ratio	Lower	Upper	
43	100		
58	37.6	39.0	58.4#
57	1.0	0.9	1.3

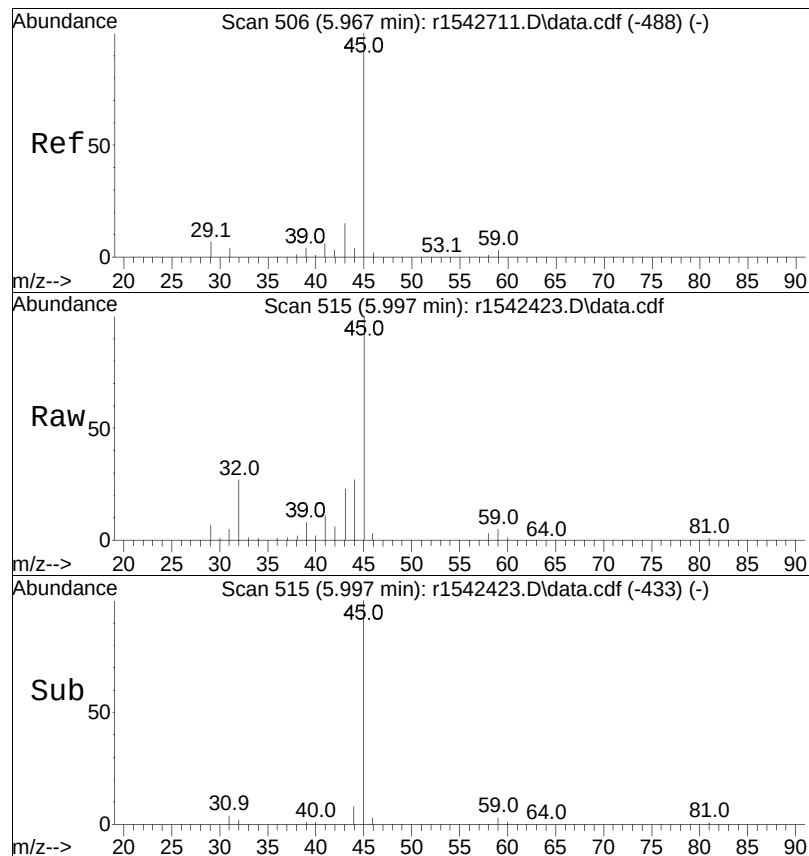




#21
trichlorofluoromethane
Concen: 0.24 ppbV
RT: 5.890 min Scan# 483
Delta R.T. 0.053 min
Lab File: r1542423.D
Acq: 31 Jan 2024 8:56 PM

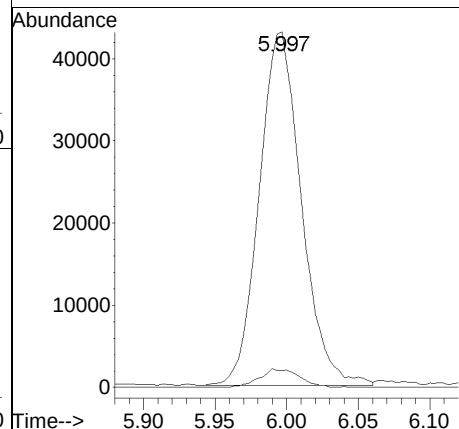
Tgt	Ion	Ratio	Lower	Upper
101	100			
103	58.7	49.4	74.0	

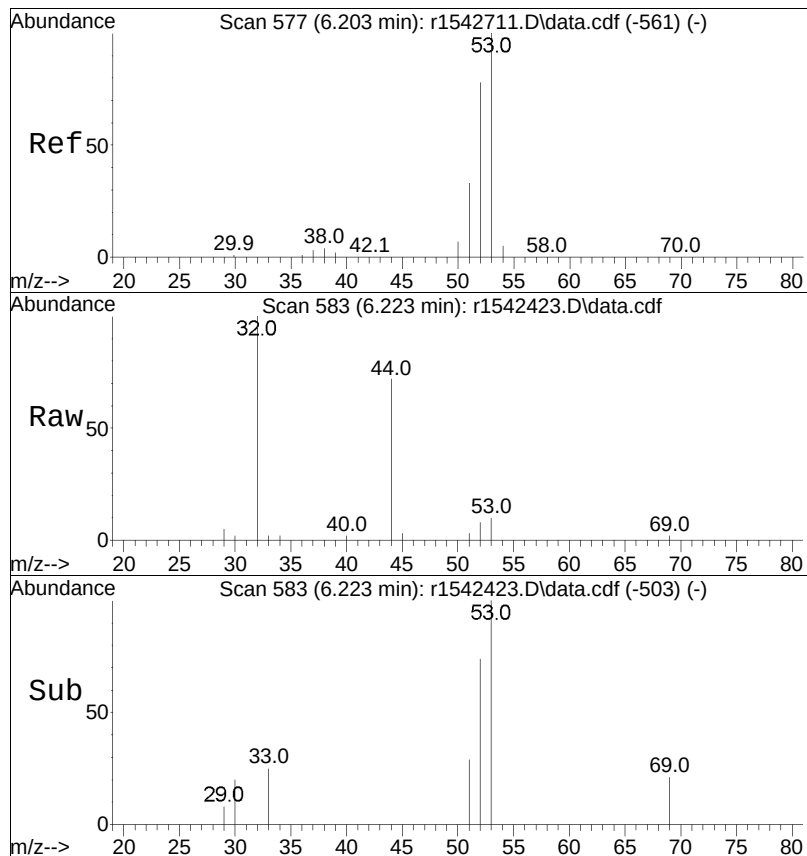




#22
 isopropyl alcohol
 Concen: 3.46 ppbV
 RT: 5.997 min Scan# 515
 Delta R.T. 0.073 min
 Lab File: r1542423.D
 Acq: 31 Jan 2024 8:56 PM

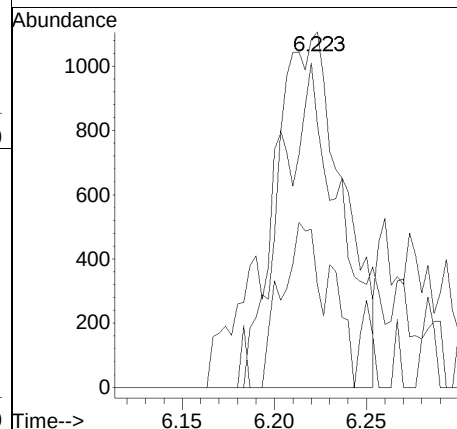
Tgt Ion	Ratio	Lower	Upper
45	100		
59	4.7	4.6	6.8

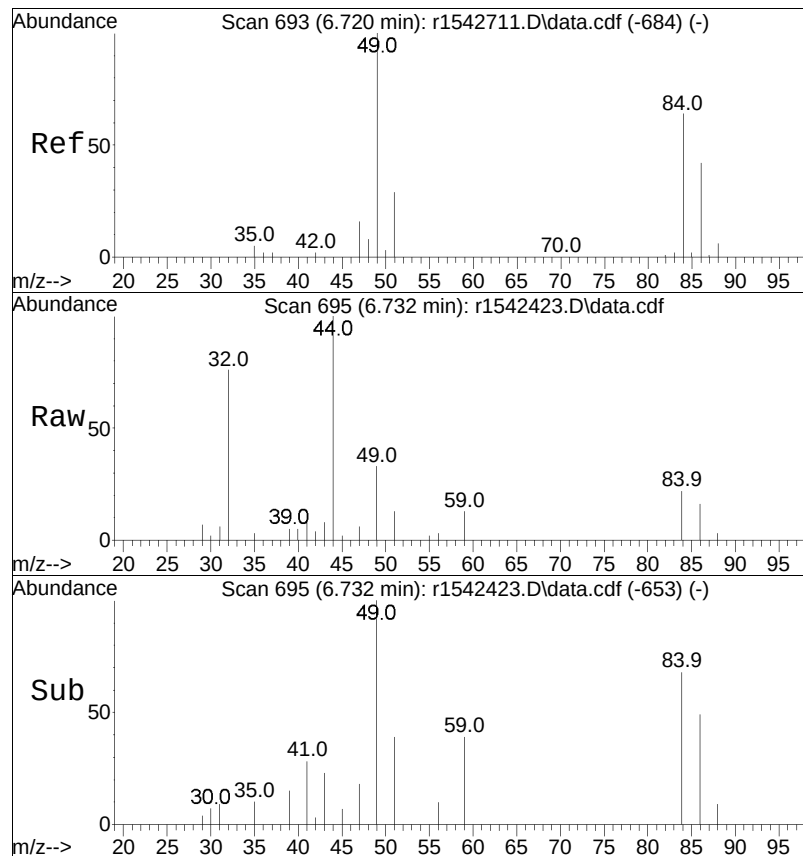




#23
 acrylonitrile
 Concen: 0.17 ppbV
 RT: 6.223 min Scan# 583
 Delta R.T. 0.067 min
 Lab File: r1542423.D
 Acq: 31 Jan 2024 8:56 PM

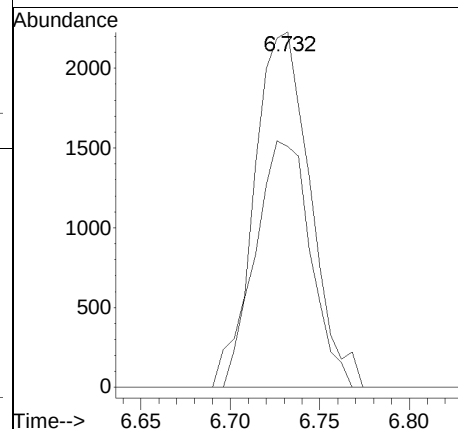
Tgt	Ion: 53	Resp:	3115
Ion	Ratio	Lower	Upper
53	100		
52	74.0	59.1	88.7
51	28.8	24.5	36.7

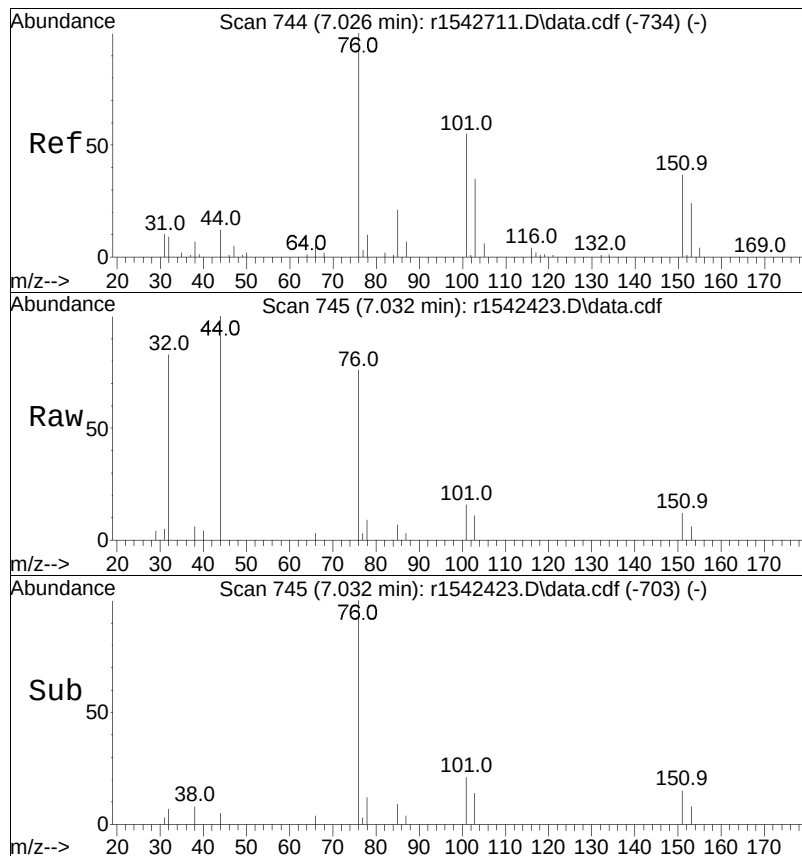




#28
 methylene chloride
 Concen: 0.18 ppbV
 RT: 6.732 min Scan# 695
 Delta R.T. 0.054 min
 Lab File: r1542423.D
 Acq: 31 Jan 2024 8:56 PM

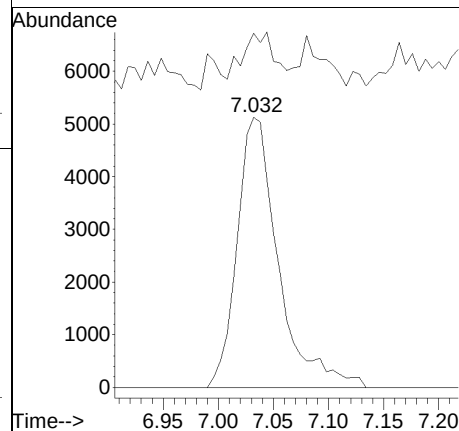
Tgt Ion:	49	84	Ratio	Lower	Upper
Resp:	4854				
Ion Ratio	100	67.8			
			61.2	91.8	

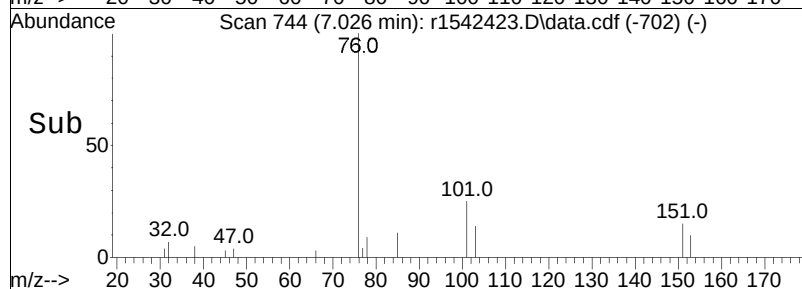
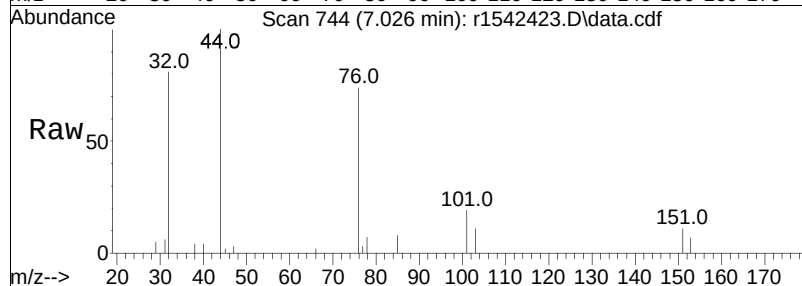
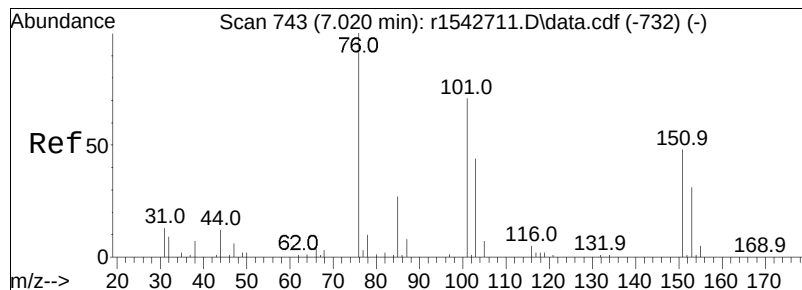




#30
carbon disulfide
Concen: 0.21 ppbV
RT: 7.032 min Scan# 745
Delta R.T. 0.054 min
Lab File: r1542423.D
Acq: 31 Jan 2024 8:56 PM

Tgt Ion	Ratio	Lower	Upper
76	100		
44	131.1	7.8	11.6#





#31

Freon 113

Concen: 0.07 ppbV

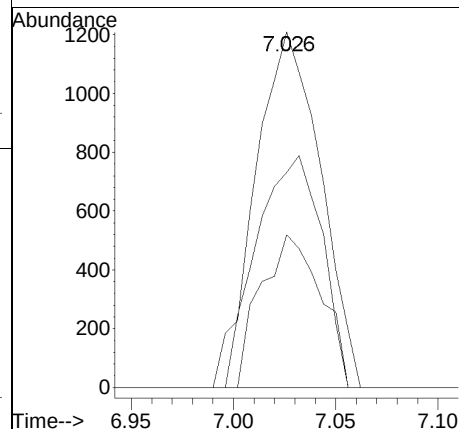
RT: 7.026 min Scan# 744

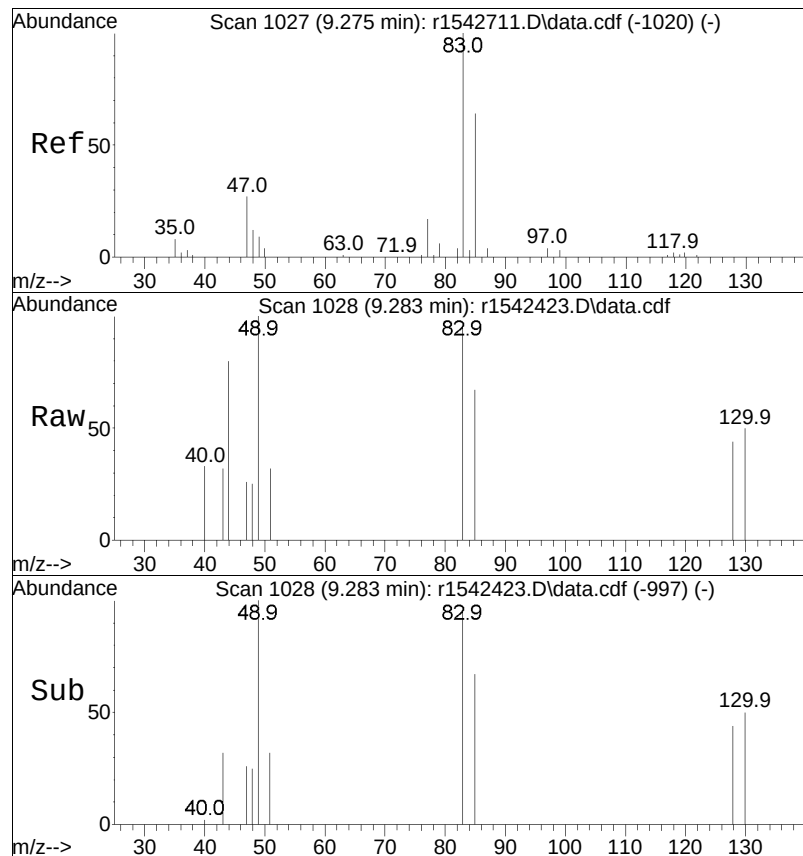
Delta R.T. 0.054 min

Lab File: r1542423.D

Acq: 31 Jan 2024 8:56 PM

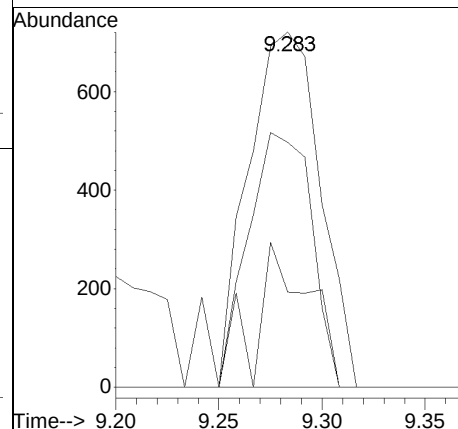
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	2682		
85	43.0		35.3	52.9
151	60.5		63.8	95.8#

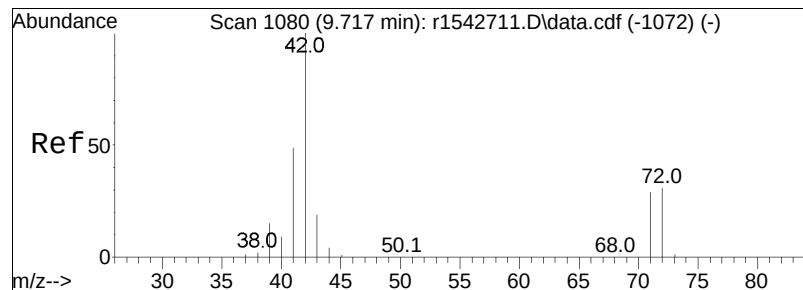




#39
chloroform
Concen: 0.04 ppbV
RT: 9.283 min Scan# 1028
Delta R.T. 0.058 min
Lab File: r1542423.D
Acq: 31 Jan 2024 8:56 PM

Tgt Ion	Ratio	Lower	Upper
83	100		
85	68.9	51.5	77.3
47	26.8	15.9	23.9





#40

Tetrahydrofuran

Concen: 0.34 ppbV

RT: 9.742 min Scan# 1083

Delta R.T. 0.075 min

Lab File: r1542423.D

Acq: 31 Jan 2024 8:56 PM

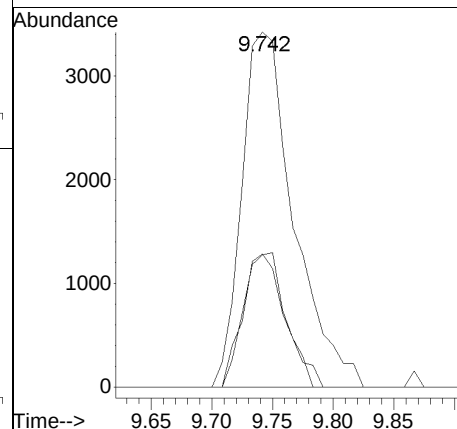
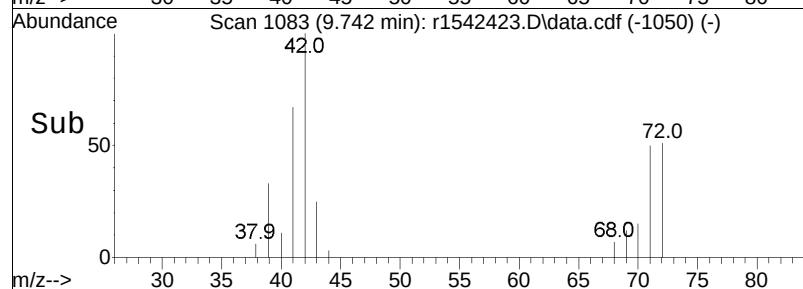
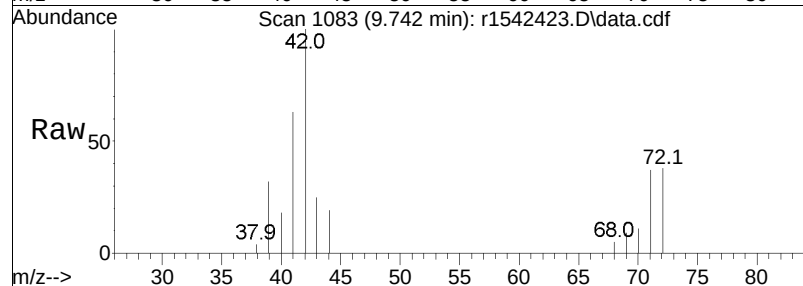
Tgt Ion: 42 Resp: 10232

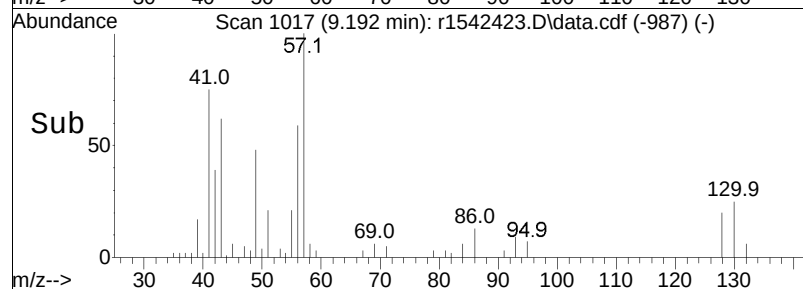
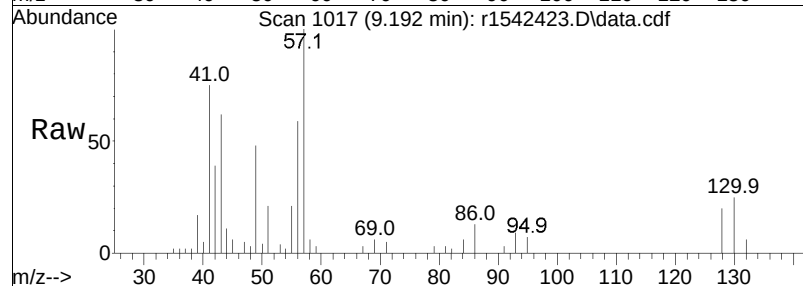
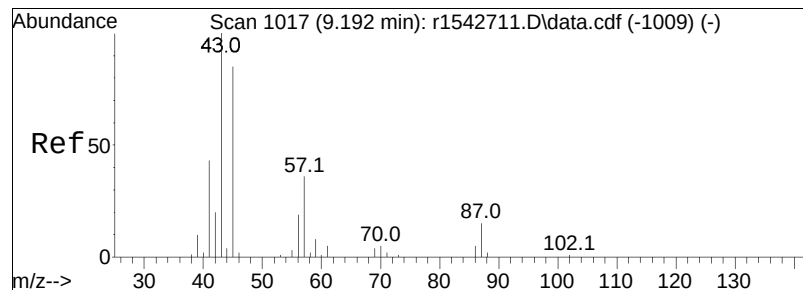
Ion Ratio Lower Upper

42 100

71 37.3 30.6 46.0

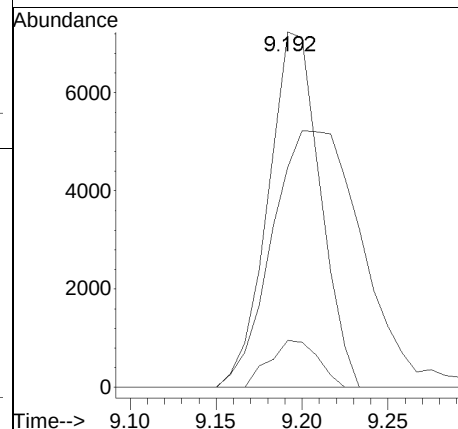
72 37.5 32.5 48.7

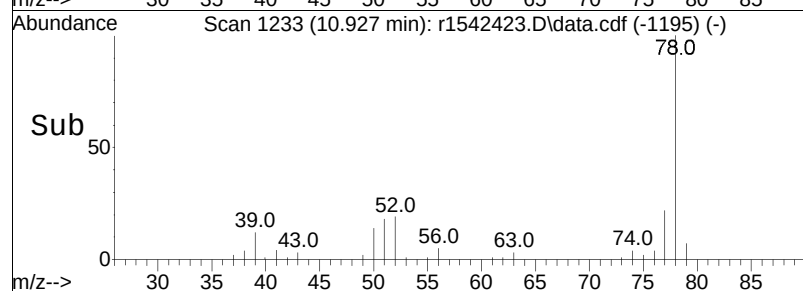
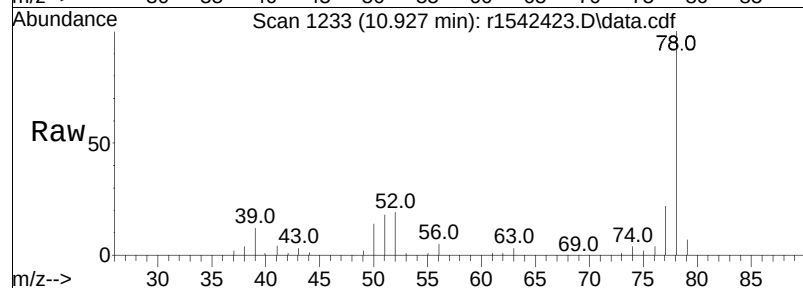
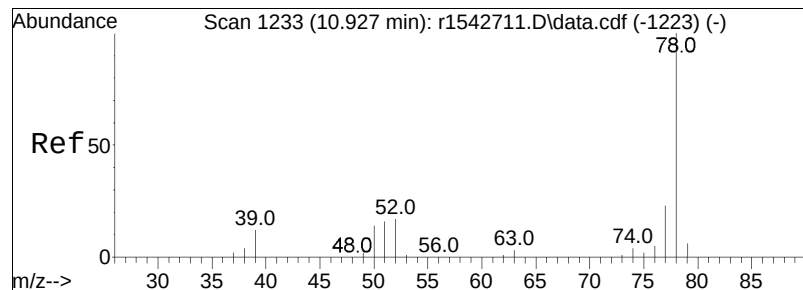




#44
hexane
Concen: 0.38 ppbV
RT: 9.192 min Scan# 1017
Delta R.T. 0.050 min
Lab File: r1542423.D
Acq: 31 Jan 2024 8:56 PM

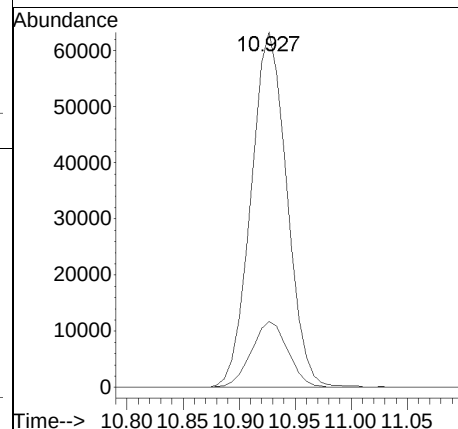
Tgt Ion:	57	Resp:	15293
Ion Ratio	Lower	Upper	
57	100		
43	62.0	146.8	220.2#
86	13.2	12.7	19.1

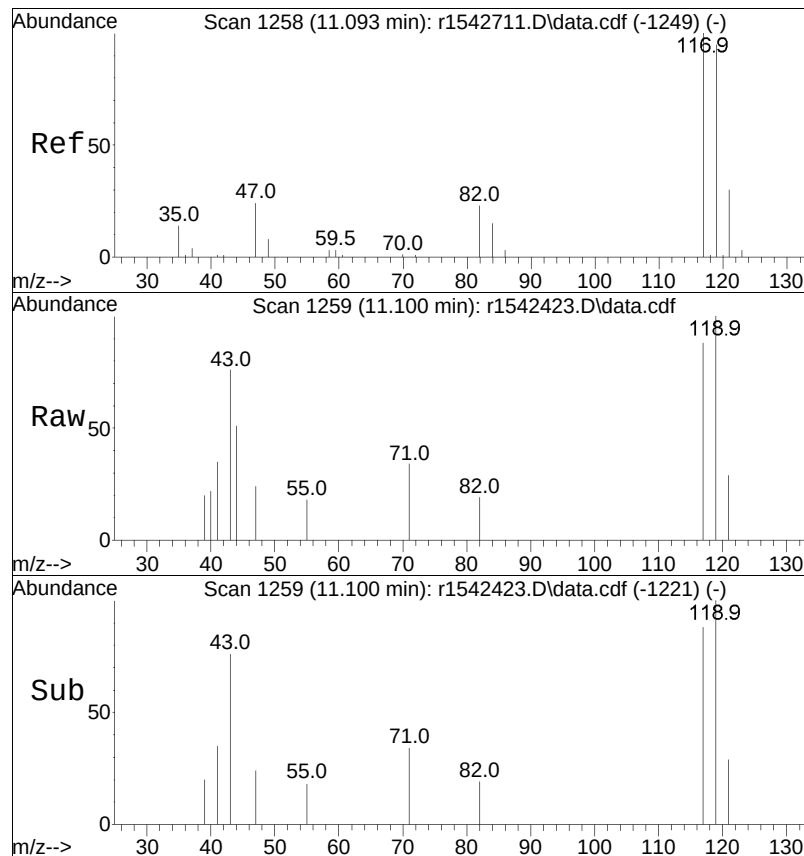




#50
benzene
Concen: 1.90 ppbV
RT: 10.927 min Scan# 1233
Delta R.T. 0.053 min
Lab File: r1542423.D
Acq: 31 Jan 2024 8:56 PM

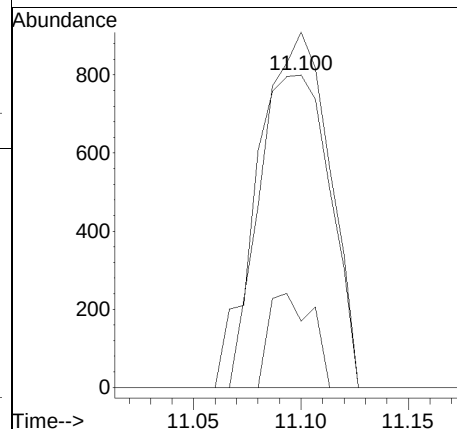
Tgt Ion	Ratio	Lower	Upper
78	100		
52	18.6	14.1	21.1

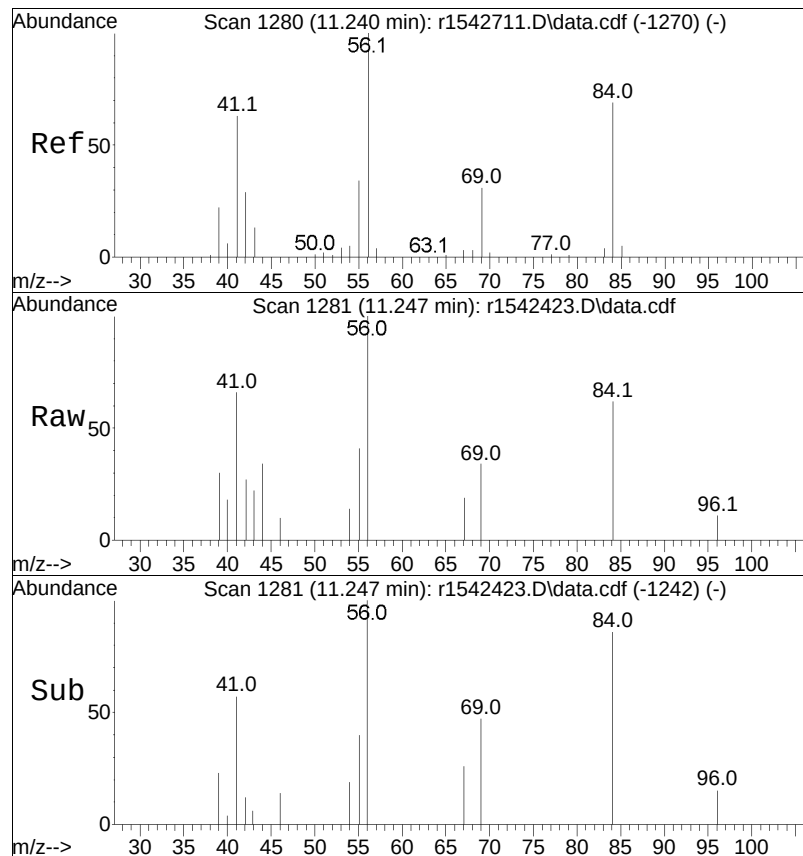




#52
 carbon tetrachloride
 Concen: 0.07 ppbV
 RT: 11.100 min Scan# 1259
 Delta R.T. 0.053 min
 Lab File: r1542423.D
 Acq: 31 Jan 2024 8:56 PM

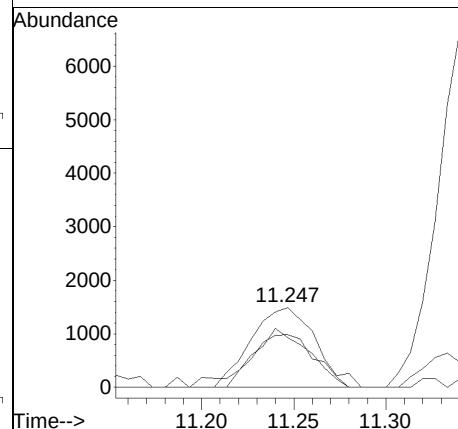
Tgt Ion	Ratio	Lower	Upper
117	100		
119	113.8	77.1	115.7
82	21.3	17.2	25.8

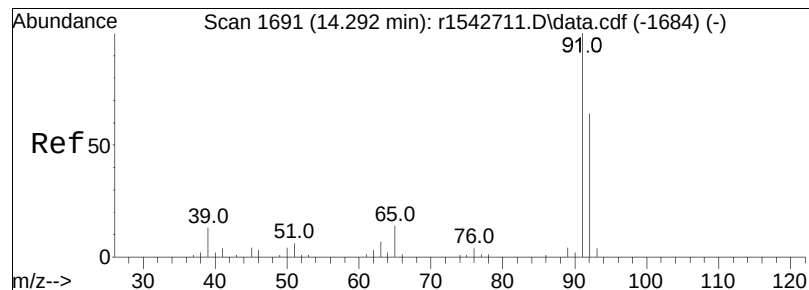




#53
cyclohexane
Concen: 0.08 ppbV
RT: 11.247 min Scan# 1281
Delta R.T. 0.060 min
Lab File: r1542423.D
Acq: 31 Jan 2024 8:56 PM

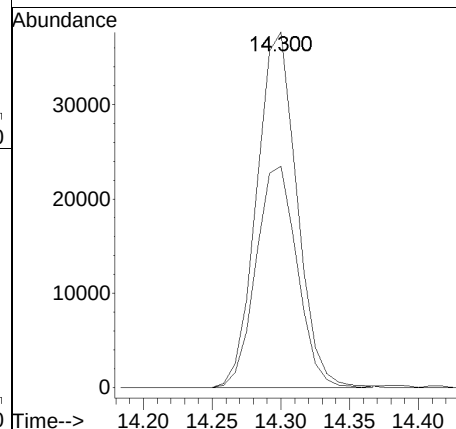
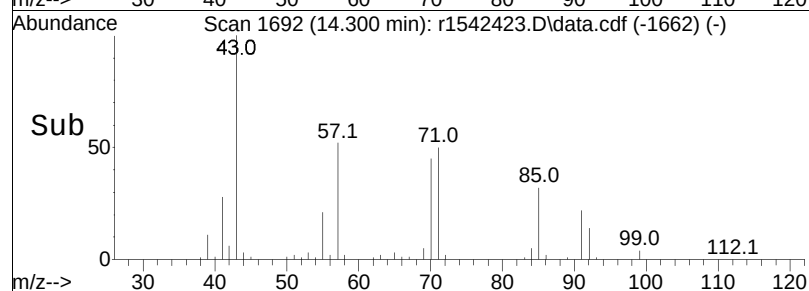
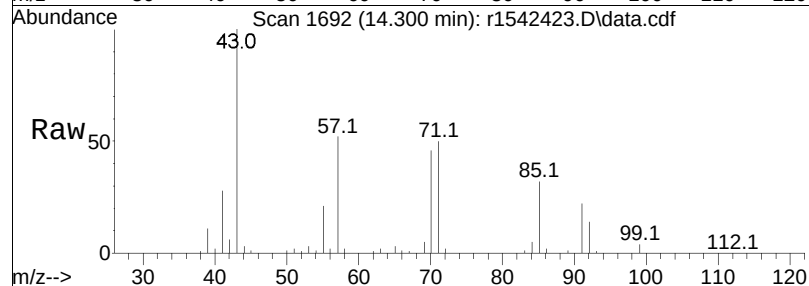
Tgt	Ion: 56	Resp:	3656
Ion	Ratio	Lower	Upper
56	100		
84	62.2	60.2	90.2
41	66.0	33.5	50.3#

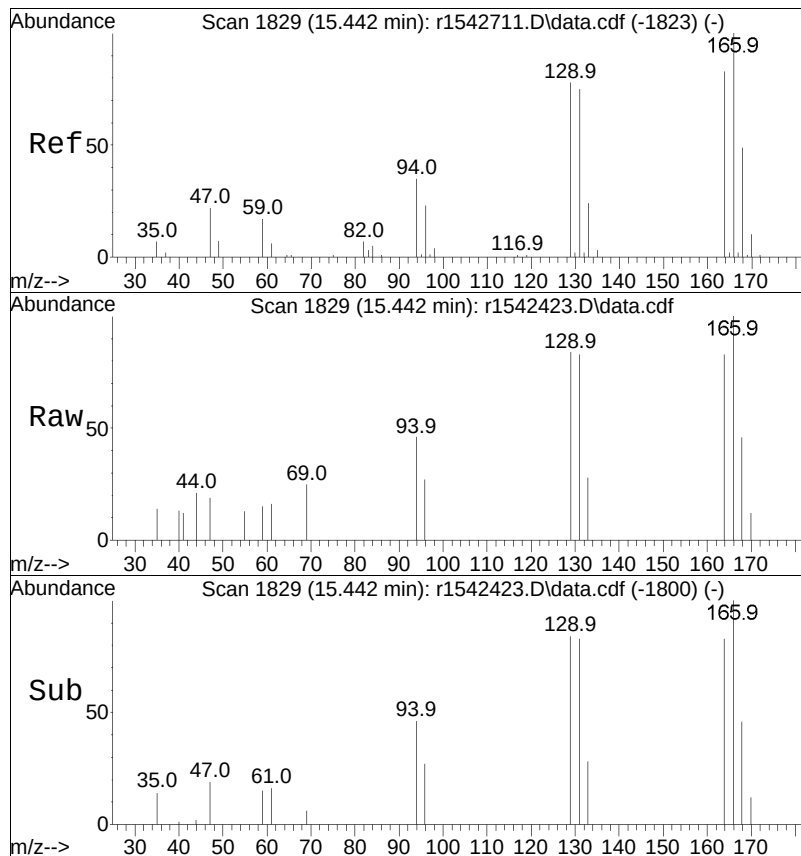




#68
toluene
Concen: 0.73 ppbV
RT: 14.300 min Scan# 1692
Delta R.T. 0.050 min
Lab File: r1542423.D
Acq: 31 Jan 2024 8:56 PM

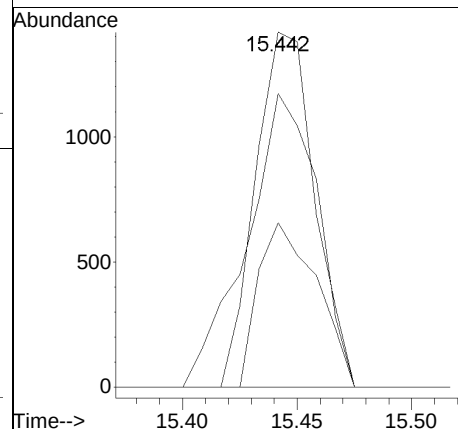
Tgt	Ion	Resp	Lower	Upper
91	100	76591		
92	62.2	51.0	76.4	

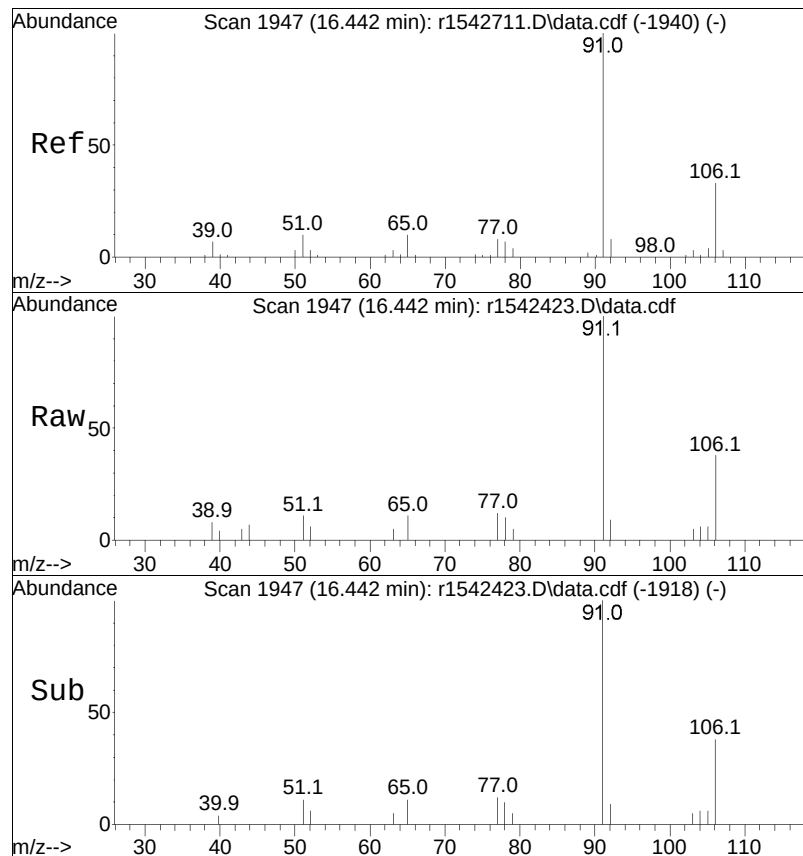




#78
 tetrachloroethene
 Concen: 0.06 ppbV
 RT: 15.442 min Scan# 1829
 Delta R.T. 0.042 min
 Lab File: r1542423.D
 Acq: 31 Jan 2024 8:56 PM

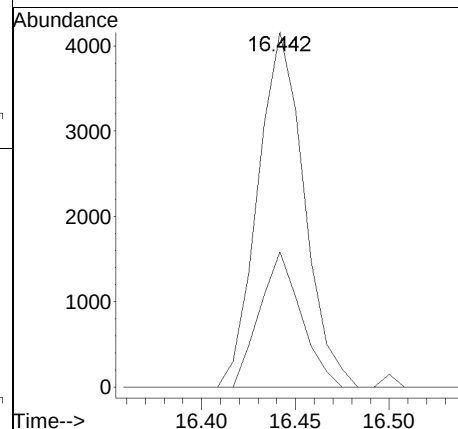
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	2551		
131	82.7		55.6	83.4
94	46.3		25.4	38.2#

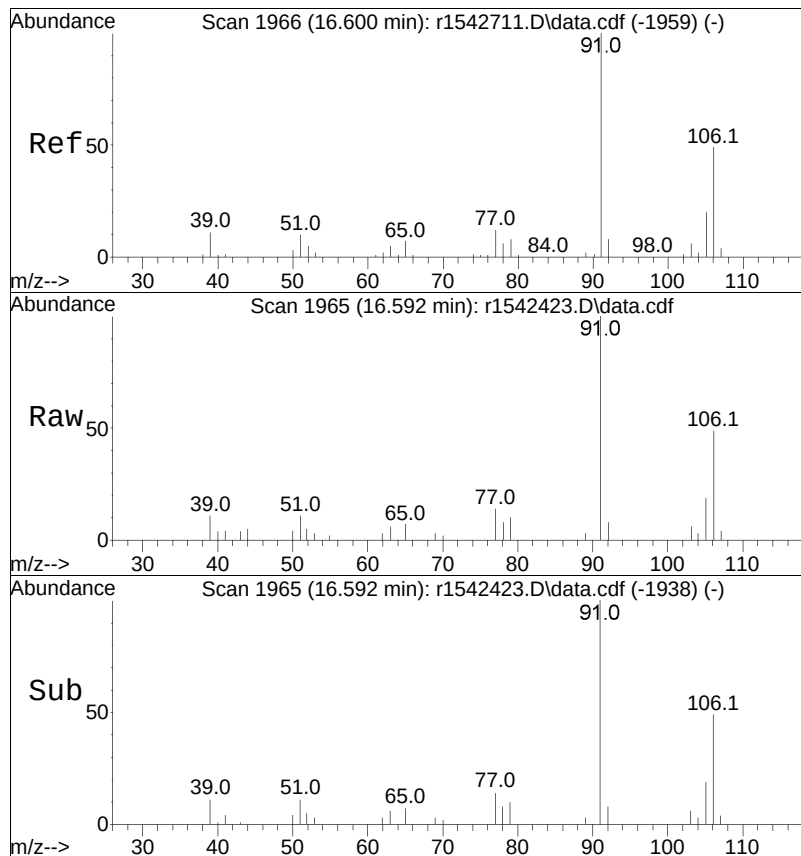




#81
ethylbenzene
Concen: 0.05 ppbV
RT: 16.442 min Scan# 1947
Delta R.T. 0.042 min
Lab File: r1542423.D
Acq: 31 Jan 2024 8:56 PM

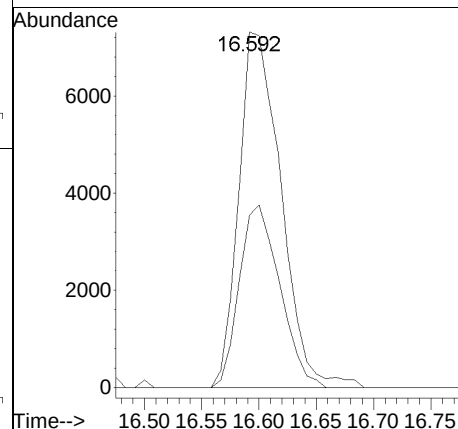
Tgt	Ion	Resp	Lower	Upper
91	100	7171		
106	38.2	27.7	41.5	

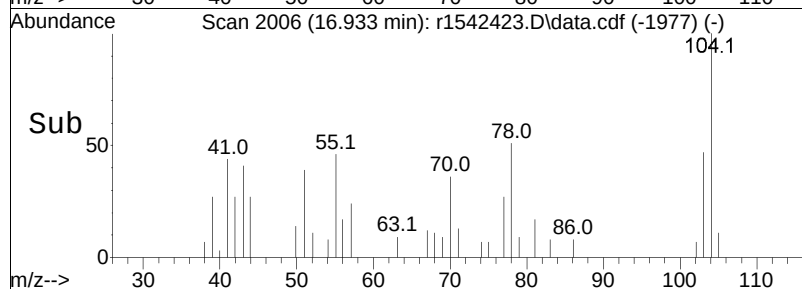
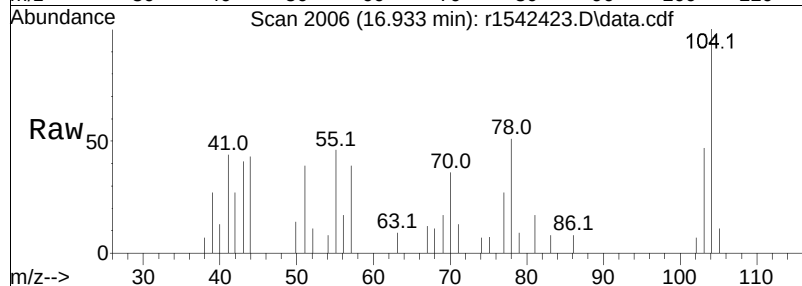
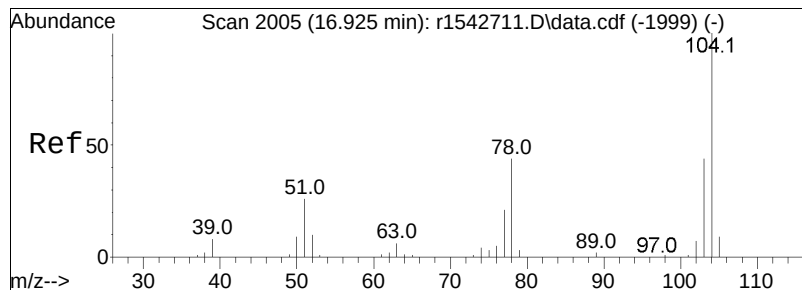




#83
 m+p-xylene
 Concen: 0.18 ppbV
 RT: 16.592 min Scan# 1965
 Delta R.T. 0.025 min
 Lab File: r1542423.D
 Acq: 31 Jan 2024 8:56 PM

Tgt	Ion	Resp	Lower	Upper
91	100	18730		
106	48.5	42.7	64.1	





#85

styrene

Concen: 0.05 ppbV

RT: 16.933 min Scan# 2006

Delta R.T. 0.042 min

Lab File: r1542423.D

Acq: 31 Jan 2024 8:56 PM

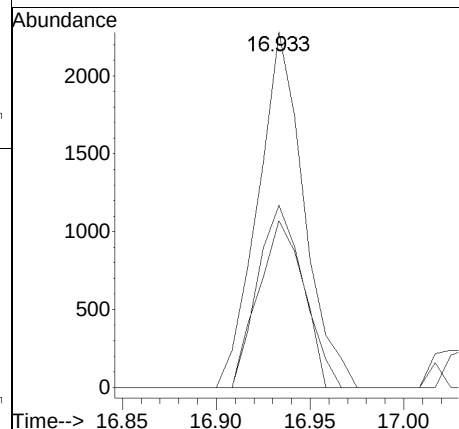
Tgt Ion:104 Resp: 3906

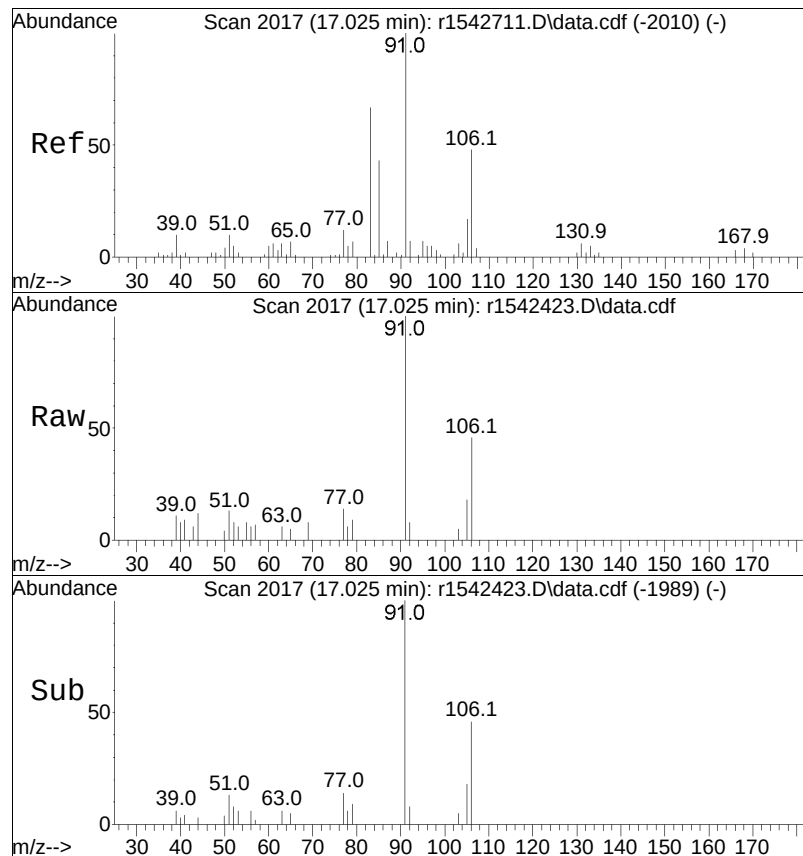
Ion Ratio Lower Upper

104 100

103 46.9 34.9 52.3

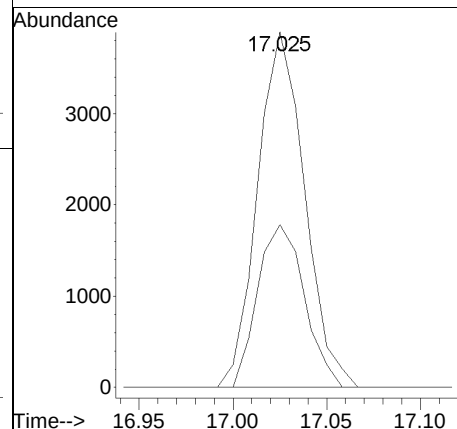
78 51.2 36.2 54.4

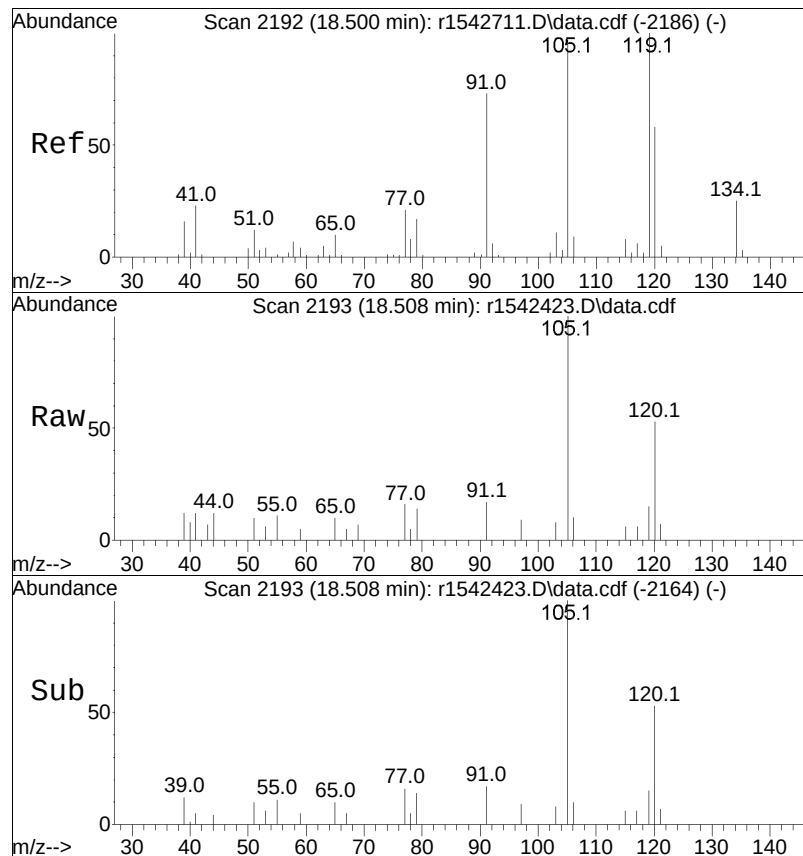




#87
 o-xylene
 Concen: 0.06 ppbV
 RT: 17.025 min Scan# 2017
 Delta R.T. 0.033 min
 Lab File: r1542423.D
 Acq: 31 Jan 2024 8:56 PM

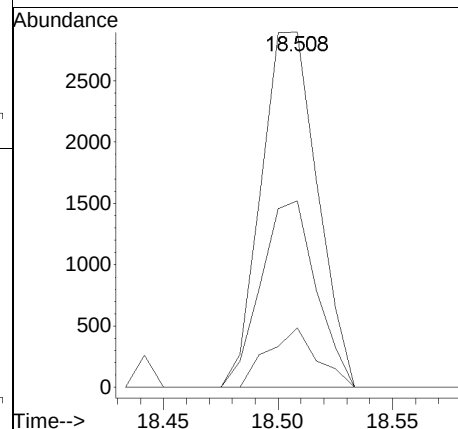
Tgt	Ion	Resp	Lower	Upper
91	100	6796		
106	45.8		40.0	60.0





#99
 1,2,4-trimethylbenzene
 Concen: 0.04 ppbV
 RT: 18.508 min Scan# 2193
 Delta R.T. 0.042 min
 Lab File: r1542423.D
 Acq: 31 Jan 2024 8:56 PM

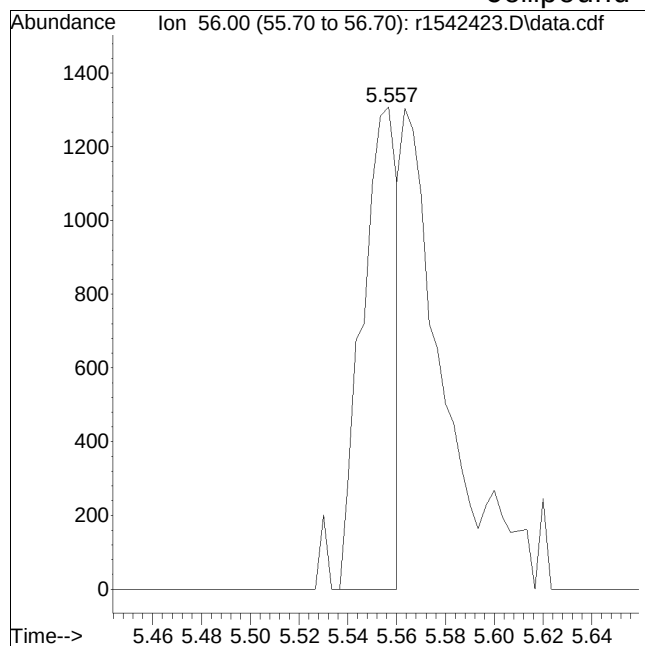
Tgt Ion:	105	Resp:	4951
Ion Ratio	Lower	Upper	
105	100		
120	52.5	51.8	77.6
91	16.8	58.3	87.5#



Manual Integration Report

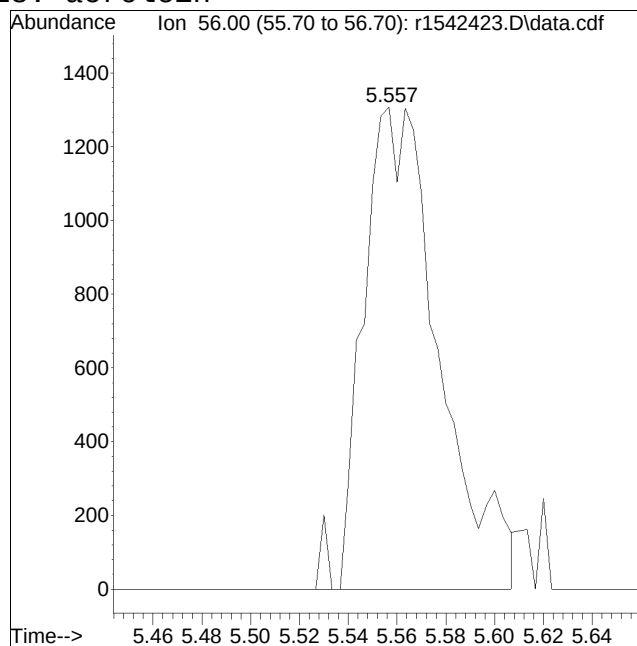
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1542423.D Operator : AIRLAB15:JMB
Date Inj'd : 1/31/2020 0:8: 6 Instrument :
Sample : L2403288-01,3,250,250 Quant Date : 2/1/2024 6:47 am

Compound #18: acrolein



Original Peak Response = 1296

M4 = Poor automated baseline construction.

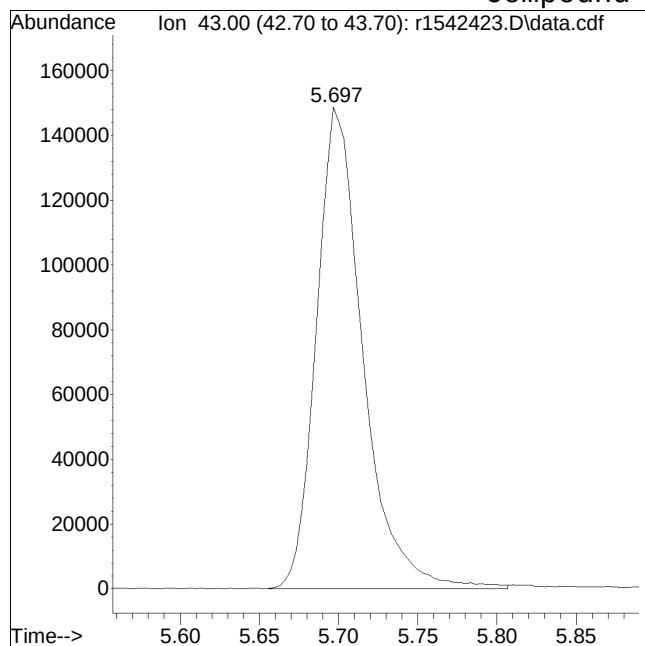


Manual Peak Response = 2839 M4

Manual Integration Report

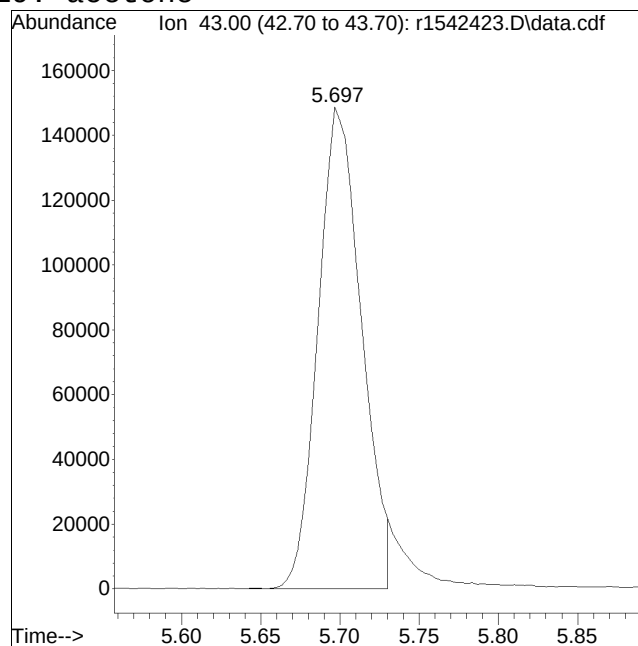
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1542423.D Operator : AIRLAB15:JMB
Date Inj'd : 1/31/2020 0:8: 6 Instrument :
Sample : L2403288-01,3,250,250 Quant Date : 2/1/2024 6:47 am

Compound #19: acetone



Original Peak Response = 304326

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



Manual Peak Response = 283766 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542424.D
 Acq On : 31 Jan 2024 9:36 PM
 Operator : AIRLAB15:JMB
 Sample : L2403288-03,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 06:48:16 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131T\r1542413.D
 Sub List : PADEP-T015 - .

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

Internal Standards						
1) bromochloromethane	9.133	49	354934	10.000	ppbV	0.06
Standard Area = 375210			Recovery =		94.60%	
43) 1,4-difluorobenzene	11.347	114	924574	10.000	ppbV #	0.05
Standard Area = 971110			Recovery =		95.21%	
67) chlorobenzene-D5	16.050	54	184158	10.000	ppbV	0.04
Standard Area = 187857			Recovery =		98.03%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	4.030	85	19588	0.485	ppbV	93
6) chloromethane	4.198	50	3974	0.261	ppbV	94
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	4.576		0	N.D.		
13) bromomethane	4.840		0	N.D.		
14) chloroethane	5.038		0	N.D.		
17) vinyl bromide	5.327		0	N.D.		
18) acrolein	5.557	56	1997	0.242	ppbV #	41
19) acetone	5.693	43	1255560M6	62.672	ppbV	
21) trichlorofluoromethane	5.887	101	7863	0.260	ppbV	89
22) isopropyl alcohol	5.980	45	786648	31.165	ppbV	97
23) acrylonitrile	6.210	53	20813	1.157	ppbV	97
26) 1,1-dichloroethene	0.000		0	N.D.	d	
28) methylene chloride	6.732	49	7610	0.278	ppbV	93
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	7.038	76	28557	0.444	ppbV #	79
31) Freon 113	7.026	101	2552	0.064	ppbV #	86
32) trans-1,2-dichloroethene	7.783		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.	d	
37) cis-1,2-dichloroethene	0.000		0	N.D.		
39) chloroform	9.283	83	6358	0.146	ppbV #	92
40) Tetrahydrofuran	9.733	42	60130M3	2.040	ppbV	
42) 1,2-dichloroethane	10.117		0	N.D.		
44) hexane	9.192	57	62907	1.555	ppbV #	64
48) 1,1,1-trichloroethane	0.000		0	N.D.		
50) benzene	10.927	78	209428	2.799	ppbV	98
52) carbon tetrachloride	11.100	117	1907	0.068	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542424.D
 Acq On : 31 Jan 2024 9:36 PM
 Operator : AIRLAB15:JMB
 Sample : L2403288-03,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 06:48:16 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131T\r1542413.D
 Sub List : PADEP-T015 - .

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
53)	cyclohexane	11.247	56	7824	0.178	ppbV	#	76
56)	1,2-dichloropropane	11.887		0	N.D.			
57)	bromodichloromethane	12.093		0	N.D.			
58)	1,4-dioxane	12.153	88	6244	0.362	ppbV	#	1
59)	trichloroethene	12.147	130	6936	0.235	ppbV	#	93
61)	methyl methacrylate	0.000		0	N.D.	d		
64)	4-methyl-2-pentanone	13.208	43	30629	0.607	ppbV		93
66)	1,1,2-trichloroethane	13.858		0	N.D.			
68)	toluene	14.300	91	441754	4.183	ppbV		100
71)	1,3-dichloropropane	14.292		0	N.D.			
74)	dibromochloromethane	0.000		0	N.D.			
75)	1,2-dibromoethane	0.000		0	N.D.			
78)	tetrachloroethene	15.442	166	53449	1.261	ppbV	#	83
80)	chlorobenzene	16.033		0	N.D.			
81)	ethylbenzene	16.442	91	125153	0.925	ppbV		92
83)	m+p-xylene	16.592	91	229374	2.150	ppbV		94
84)	bromoform	0.000		0	N.D.			
85)	styrene	16.925	104	134297	1.554	ppbV		99
86)	1,1,2,2-tetrachloroethane	0.000		0	N.D.	d		
87)	o-xylene	17.025	91	80882	0.760	ppbV		92
91)	isopropylbenzene	17.542	105	11960	0.088	ppbV	#	87
97)	1,3,5-trimethylbenzene	18.158	105	17558	0.132	ppbV	#	92
99)	1,2,4-trimethylbenzene	18.500	105	51129M3	0.428	ppbV		
101)	Benzyl Chloride	18.625		0	N.D.			
103)	1,4-dichlorobenzene	18.633		0	N.D.			
107)	1,2-dichlorobenzene	18.983		0	N.D.			
115)	1,2,4-trichlorobenzene	0.000		0	N.D.			
116)	naphthalene	20.600	128	10743	0.066	ppbV		97

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

Sub List : PADEP-T015 - .ata\Airlab15\2024\01\0131T\r1542413.D

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\

Data File : r1542424.D

Acq On : 31 Jan 2024 9:36 PM

Operator : AIRLAB15:JMB

Sample : L2403288-03,3,250,250

Misc : WG1880230,ICAL20574

ALS Vial : 0 Sample Multiplier: 1

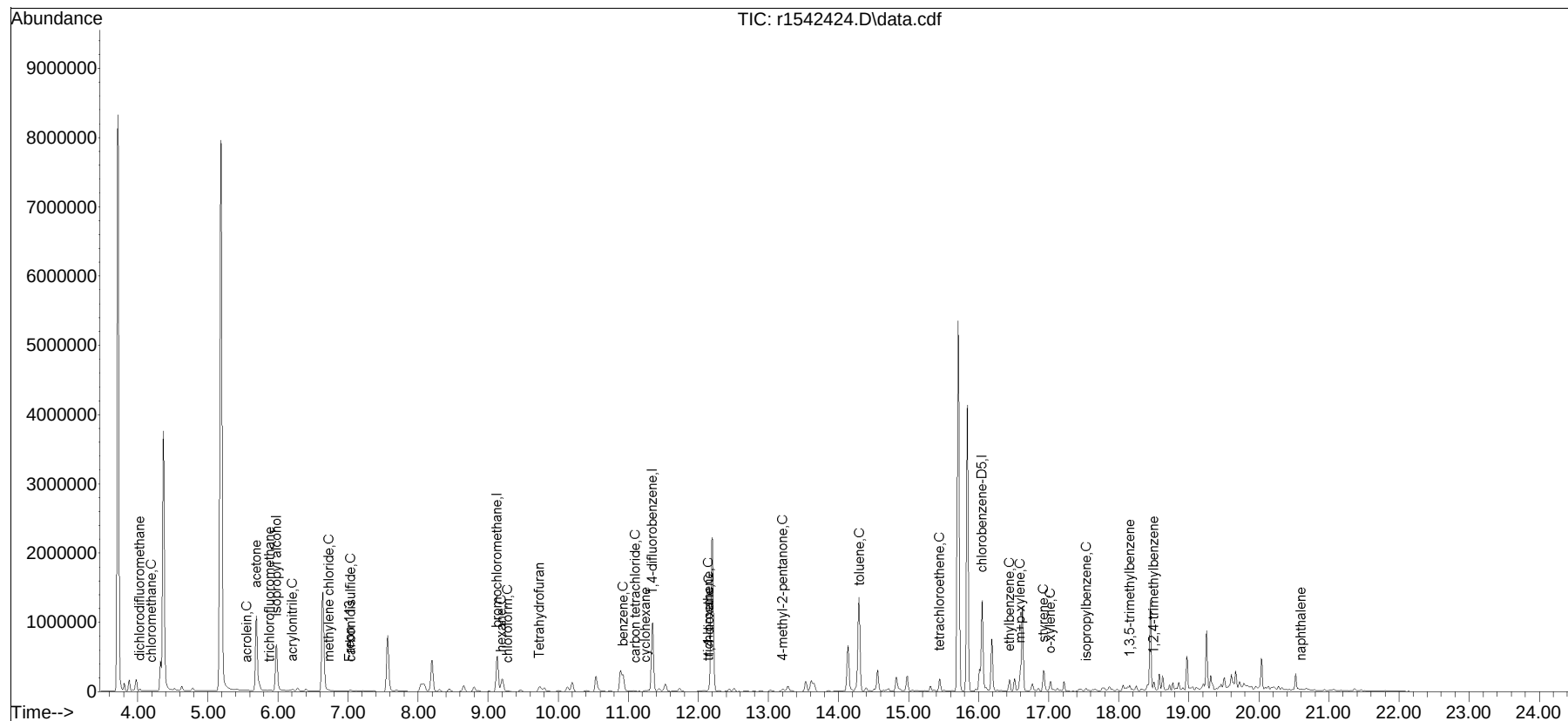
Quant Time: Feb 01 06:48:16 2024

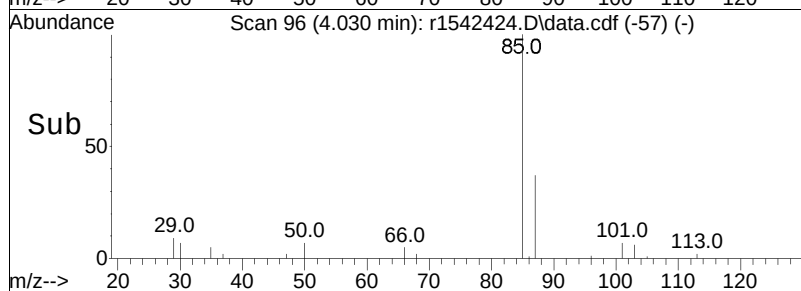
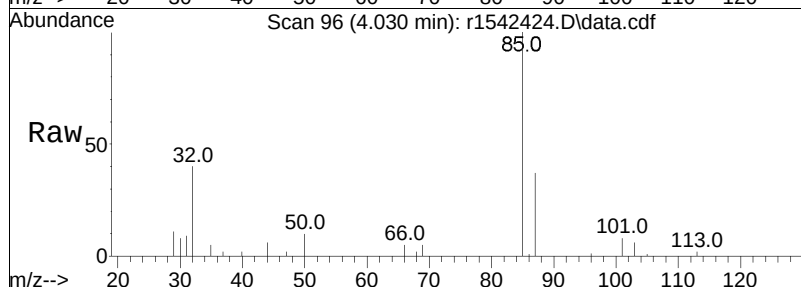
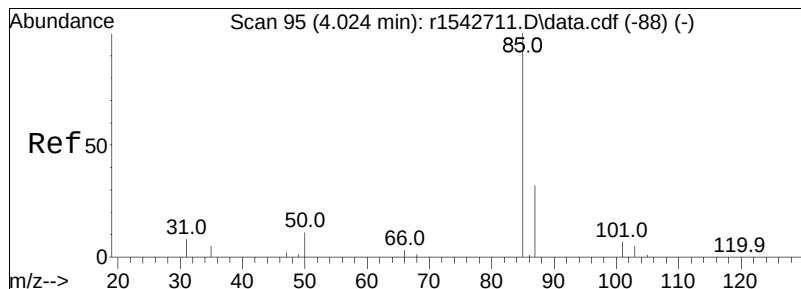
Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

QLast Update : Tue Nov 21 15:43:21 2023

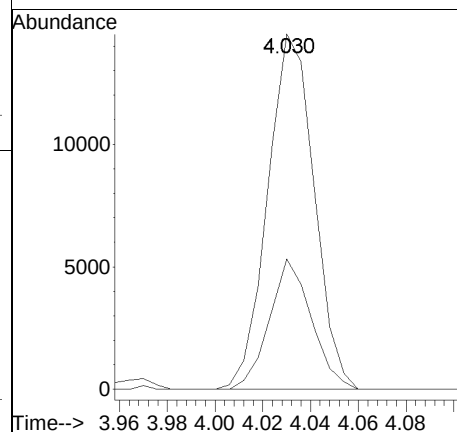
Response via : Initial Calibration

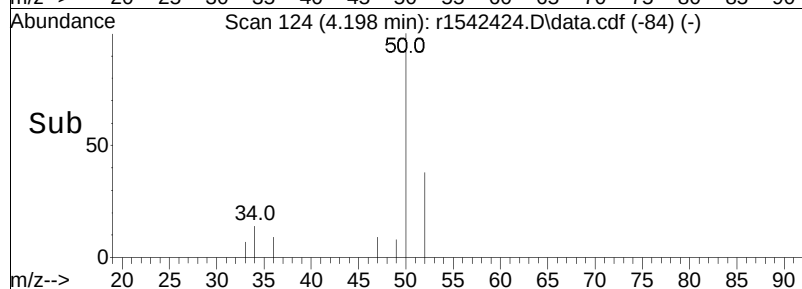
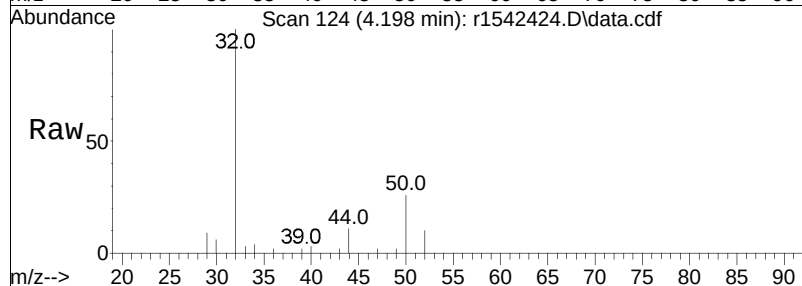
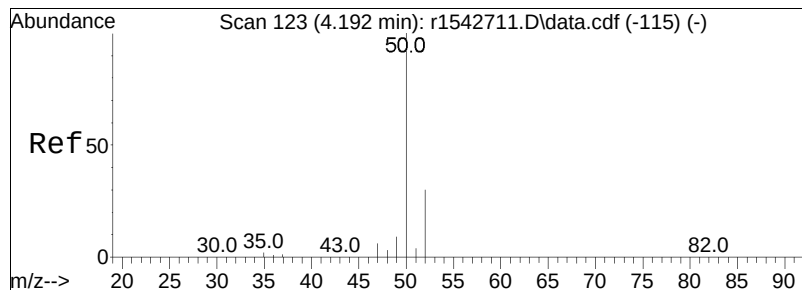




#5
dichlorodifluoromethane
Concen: 0.48 ppbV
RT: 4.030 min Scan# 96
Delta R.T. 0.036 min
Lab File: r1542424.D
Acq: 31 Jan 2024 9:36 PM

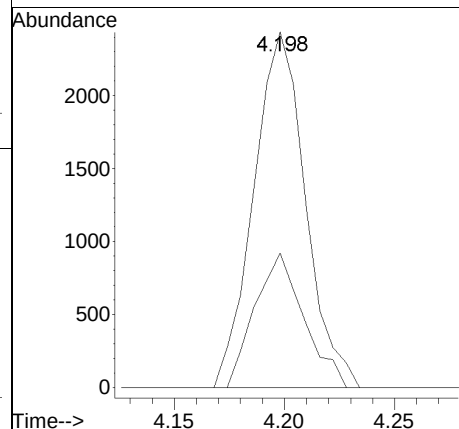
Tgt Ion	85	87	Ratio	100	Lower	Upper
Resp:	19588					
85	100					
87	36.7	26.1	39.1			

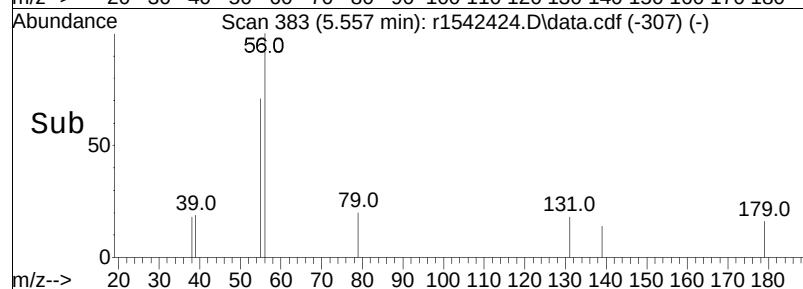
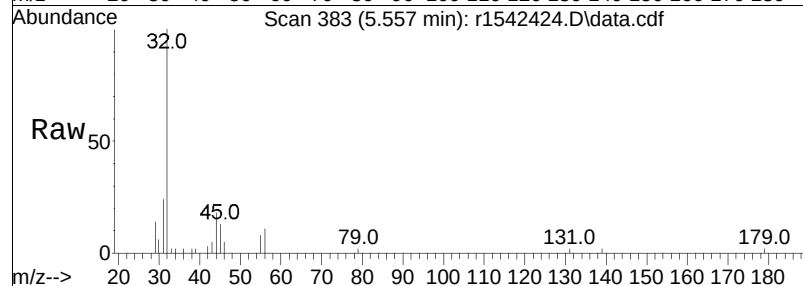
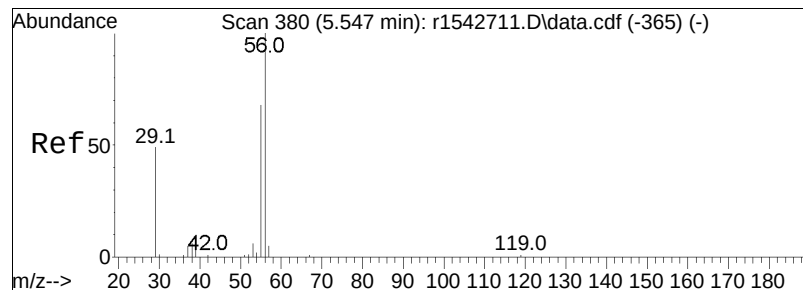




#6
 chloromethane
 Concen: 0.26 ppbV
 RT: 4.198 min Scan# 124
 Delta R.T. 0.042 min
 Lab File: r1542424.D
 Acq: 31 Jan 2024 9:36 PM

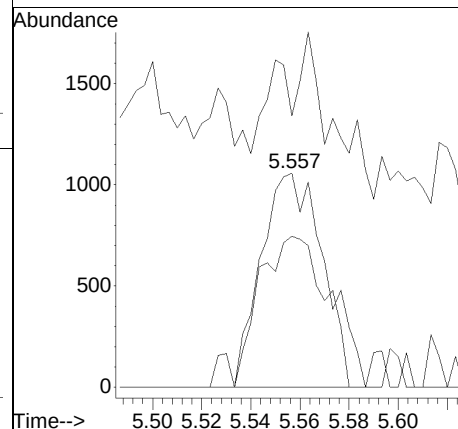
Tgt Ion	Ratio	Lower	Upper
50	100		
52	37.8	27.4	41.2

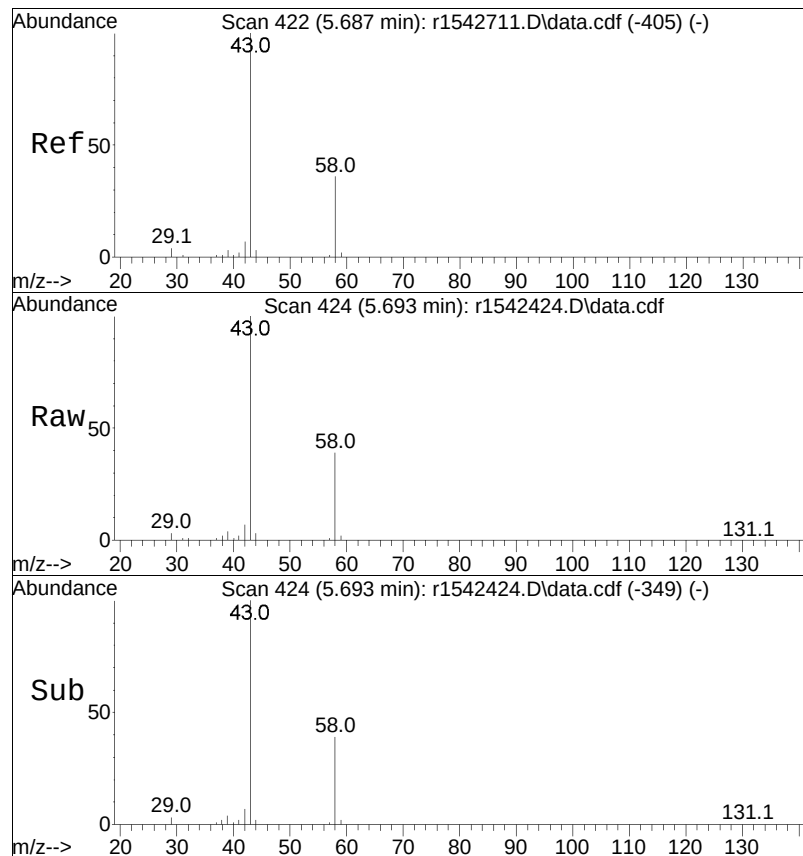




#18
acrolein
Concen: 0.24 ppbV
RT: 5.557 min Scan# 383
Delta R.T. 0.053 min
Lab File: r1542424.D
Acq: 31 Jan 2024 9:36 PM

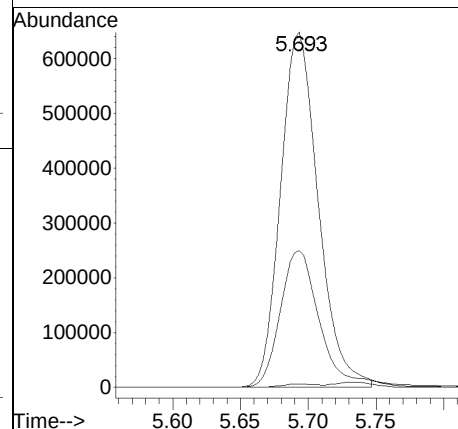
Tgt Ion	Ratio	Lower	Upper
56	100		
55	70.6	52.3	78.5
29	126.9	28.6	43.0

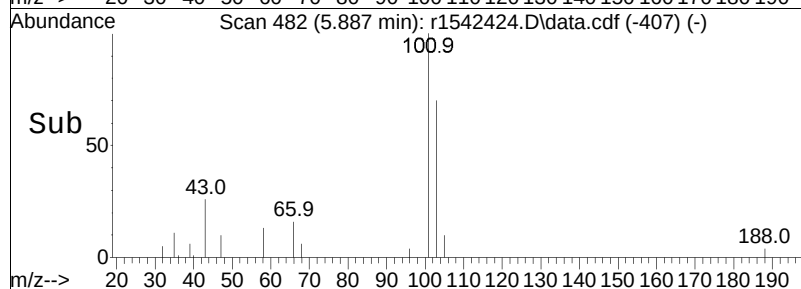
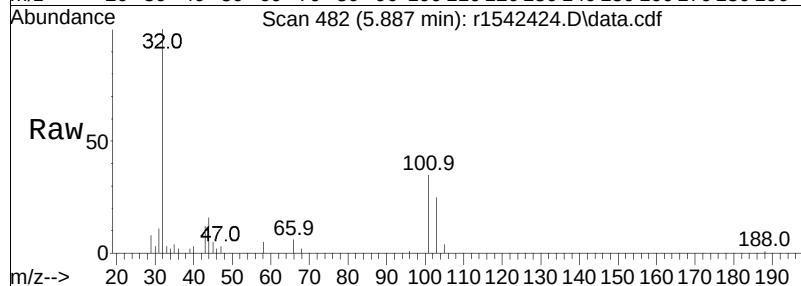
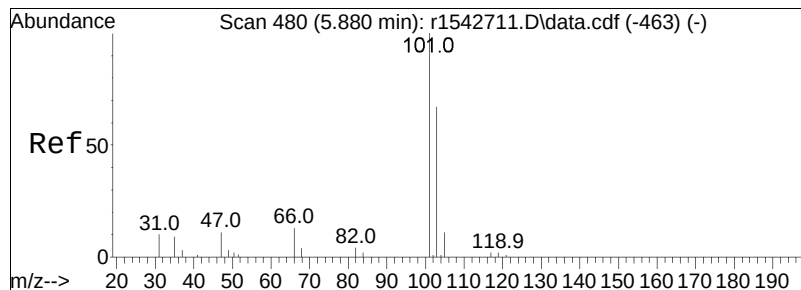




#19
 acetone
 Concen: 62.67 ppbV m
 RT: 5.693 min Scan# 424
 Delta R.T. 0.050 min
 Lab File: r1542424.D
 Acq: 31 Jan 2024 9:36 PM

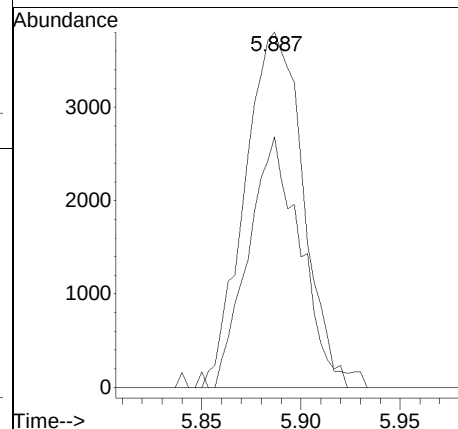
Tgt Ion: 43	Resp: 1255560
Ion Ratio	Lower Upper
43 100	
58 38.5	39.0 58.4#
57 0.9	0.9 1.3

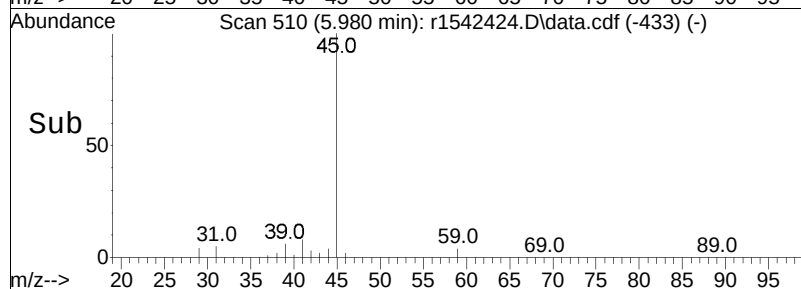
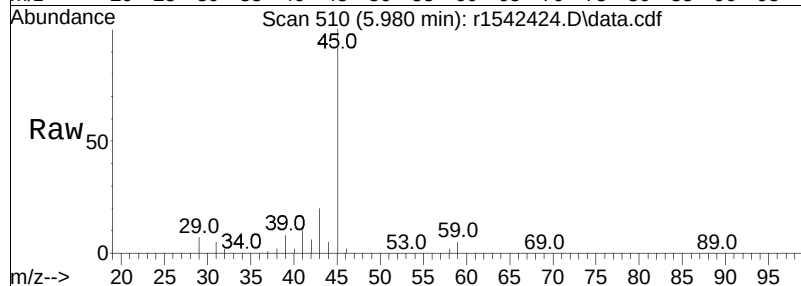
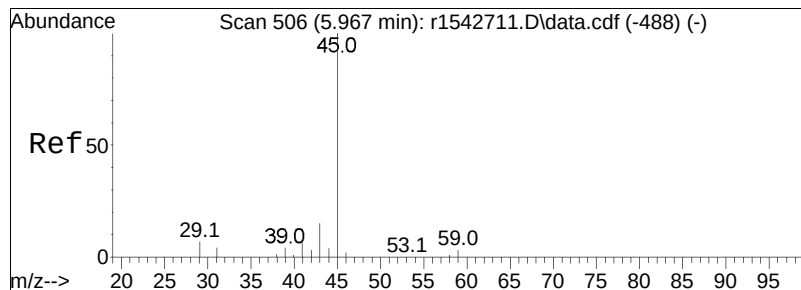




#21
 trichlorofluoromethane
 Concen: 0.26 ppbV
 RT: 5.887 min Scan# 482
 Delta R.T. 0.050 min
 Lab File: r1542424.D
 Acq: 31 Jan 2024 9:36 PM

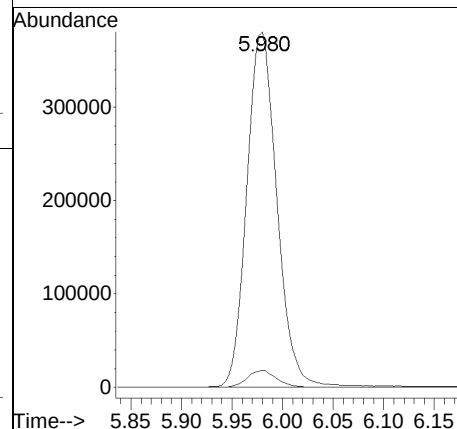
Tgt Ion	Ratio	Lower	Upper
101	100		
103	70.5	49.4	74.0

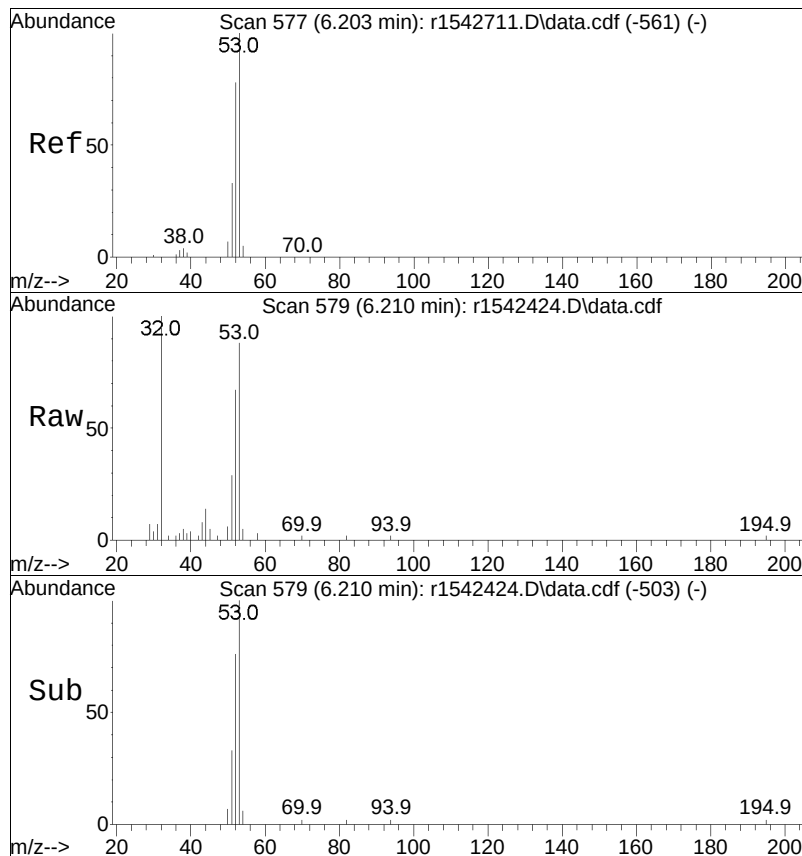




#22
isopropyl alcohol
Concen: 31.16 ppbV
RT: 5.980 min Scan# 510
Delta R.T. 0.057 min
Lab File: r1542424.D
Acq: 31 Jan 2024 9:36 PM

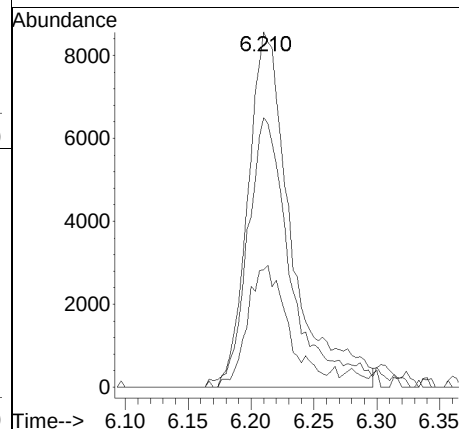
Tgt Ion	Ratio	Lower	Upper
45	100		
59	4.7	4.6	6.8

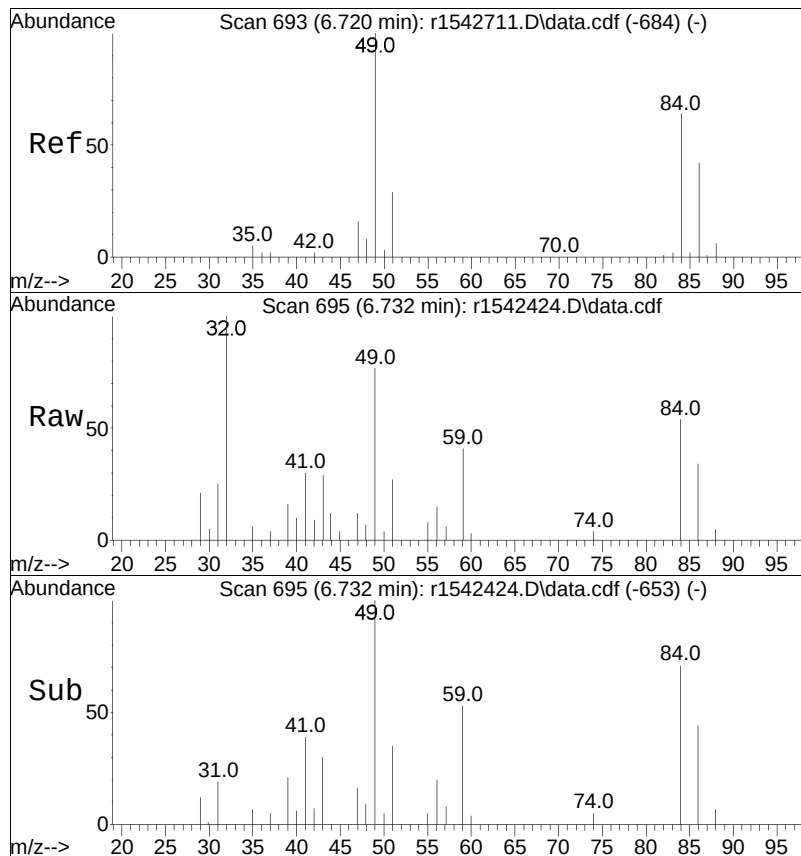




#23
acrylonitrile
Concen: 1.16 ppbV
RT: 6.210 min Scan# 579
Delta R.T. 0.053 min
Lab File: r1542424.D
Acq: 31 Jan 2024 9:36 PM

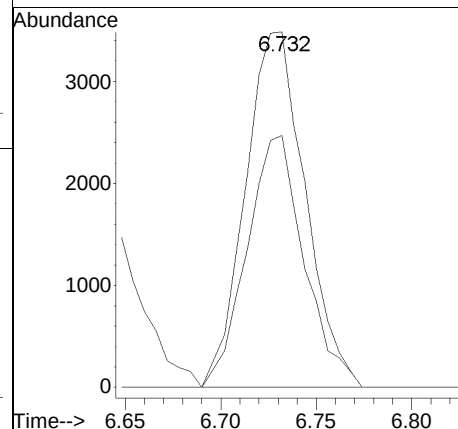
Tgt	Ion: 53	Resp:	20813
Ion	Ratio	Lower	Upper
53	100		
52	75.9	59.1	88.7
51	33.2	24.5	36.7

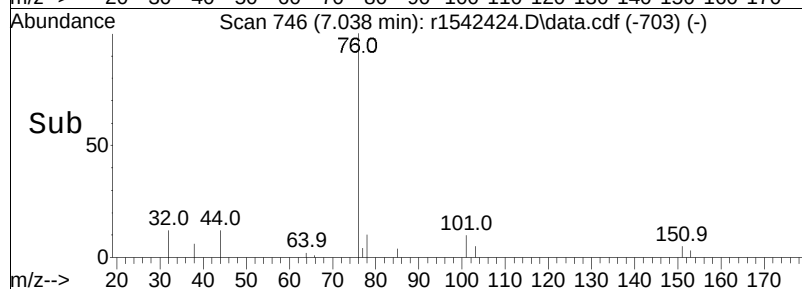
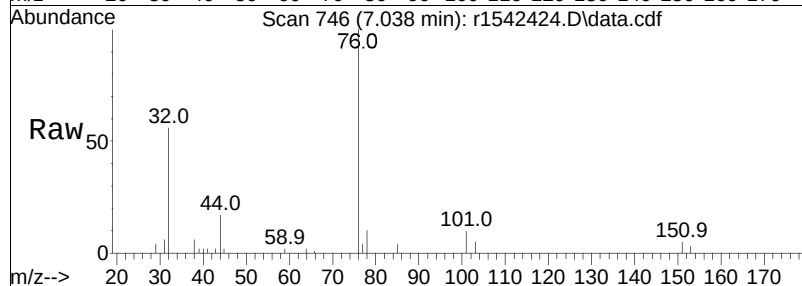
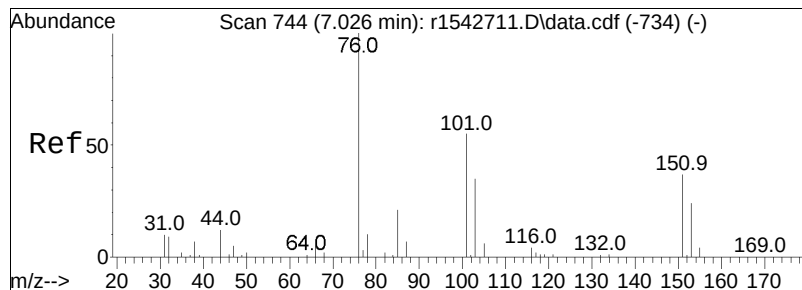




#28
 methylene chloride
 Concen: 0.28 ppbV
 RT: 6.732 min Scan# 695
 Delta R.T. 0.054 min
 Lab File: r1542424.D
 Acq: 31 Jan 2024 9:36 PM

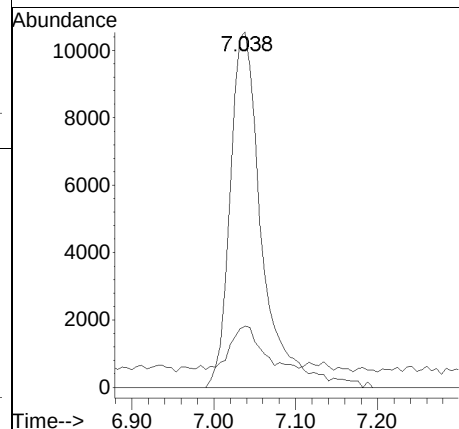
Tgt Ion:	49	84	Ratio	Lower	Upper
Resp:	7610				
Ion Ratio	100	70.9			
			61.2	91.8	

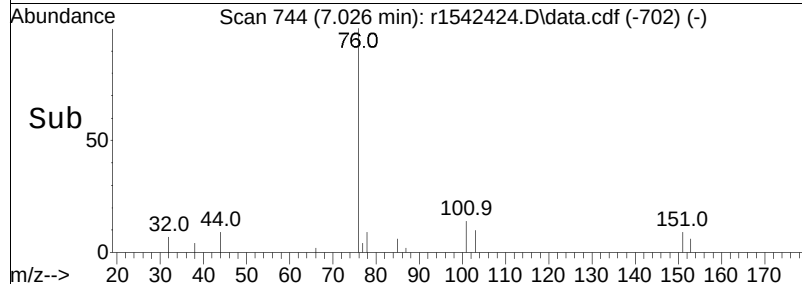
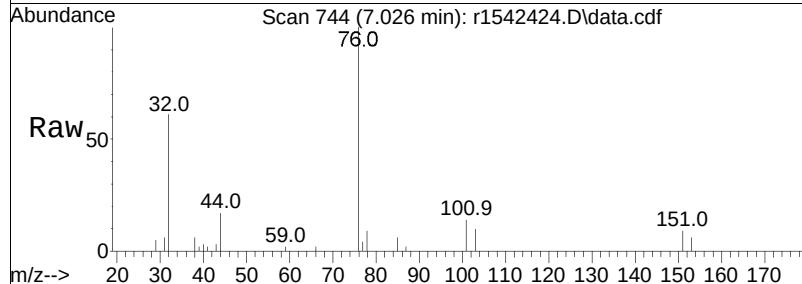
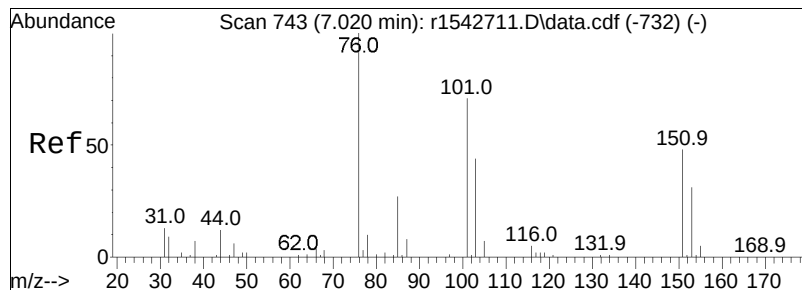




#30
 carbon disulfide
 Concen: 0.44 ppbV
 RT: 7.038 min Scan# 746
 Delta R.T. 0.060 min
 Lab File: r1542424.D
 Acq: 31 Jan 2024 9:36 PM

Tgt Ion	Ratio	Lower	Upper
76	100		
44	17.2	7.8	11.6#





#31

Freon 113

Concen: 0.06 ppbV

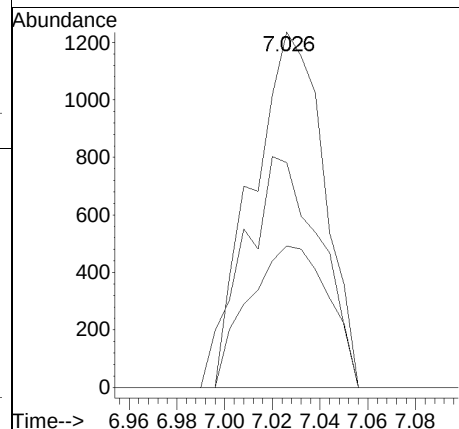
RT: 7.026 min Scan# 744

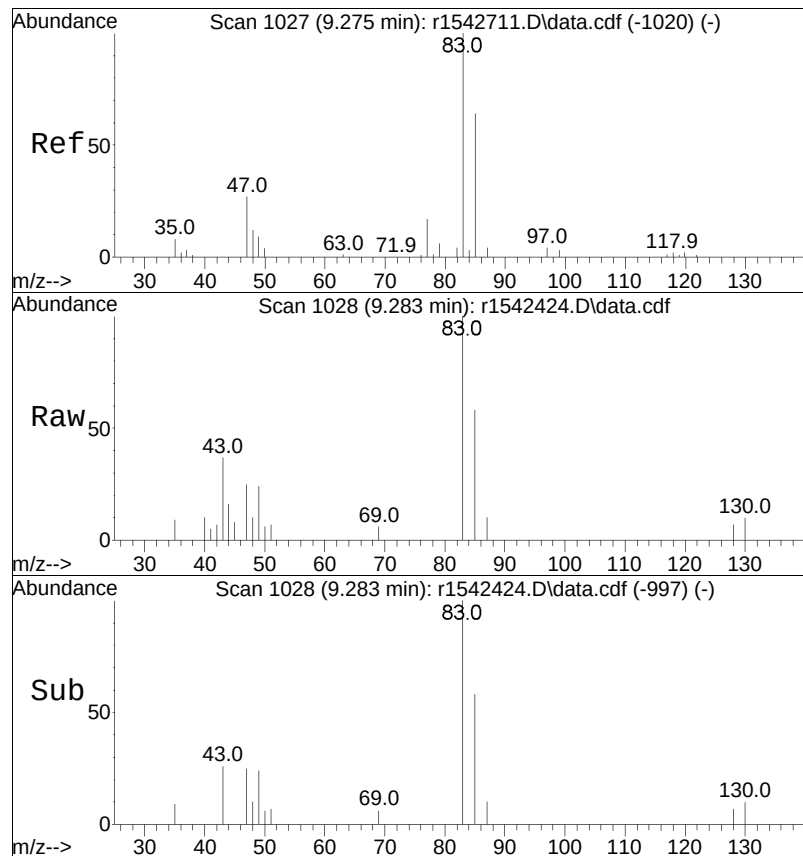
Delta R.T. 0.054 min

Lab File: r1542424.D

Acq: 31 Jan 2024 9:36 PM

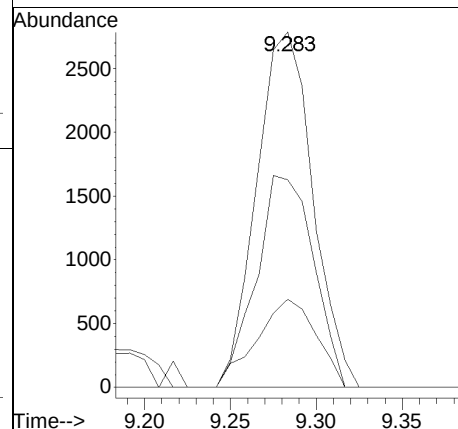
Tgt Ion:	101	Resp:	2552
Ion Ratio	Lower	Upper	
101	100		
85	39.8	35.3	52.9
151	63.3	63.8	95.8#

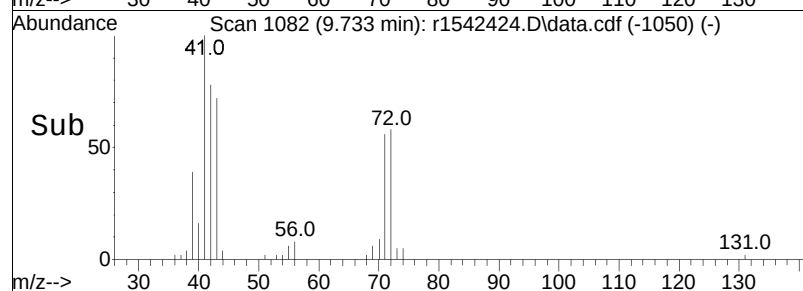
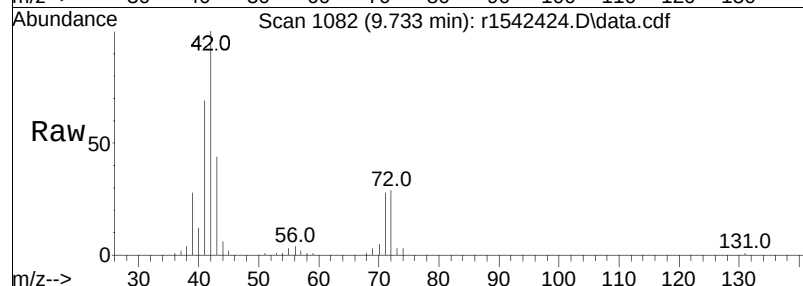
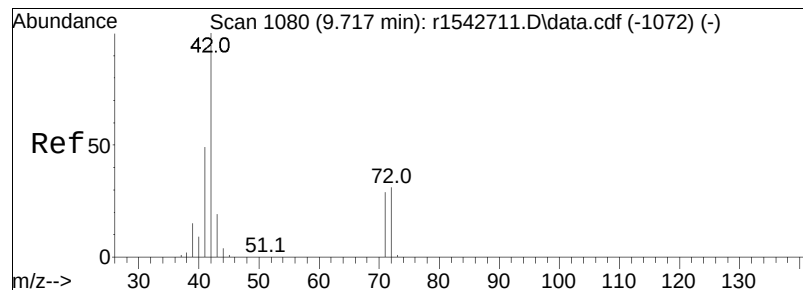




#39
chloroform
Concen: 0.15 ppbV
RT: 9.283 min Scan# 1028
Delta R.T. 0.058 min
Lab File: r1542424.D
Acq: 31 Jan 2024 9:36 PM

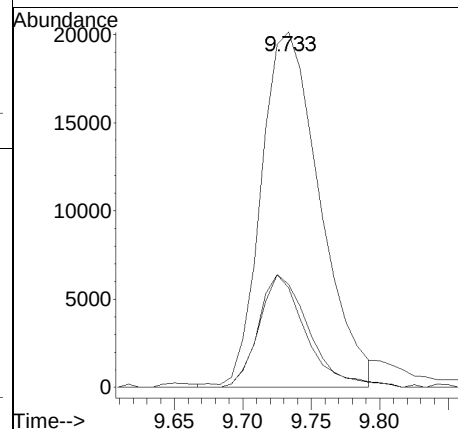
Tgt Ion:	83	Resp:	6358
Ion Ratio	Lower	Upper	
83	100		
85	58.4	51.5	77.3
47	24.8	15.9	23.9#

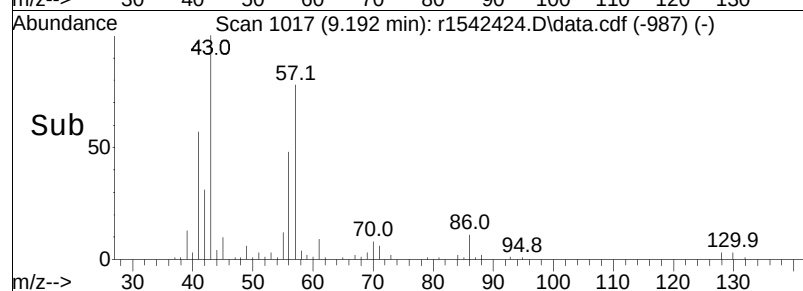
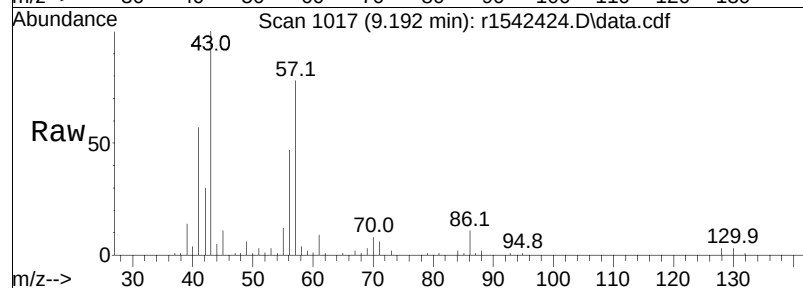
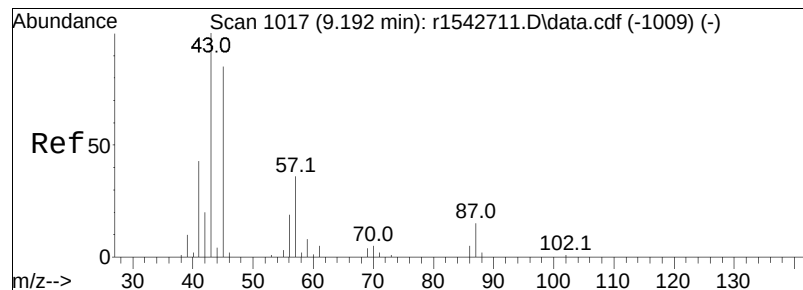




#40
Tetrahydrofuran
Concen: 2.04 ppbV m
RT: 9.733 min Scan# 1082
Delta R.T. 0.067 min
Lab File: r1542424.D
Acq: 31 Jan 2024 9:36 PM

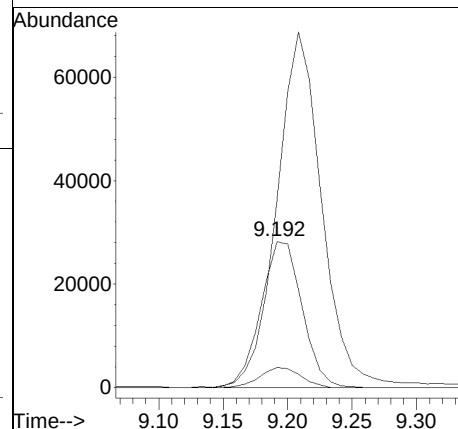
Tgt Ion	Ratio	Lower	Upper
42	100		
71	28.1	30.6	46.0#
72	29.0	32.5	48.7#

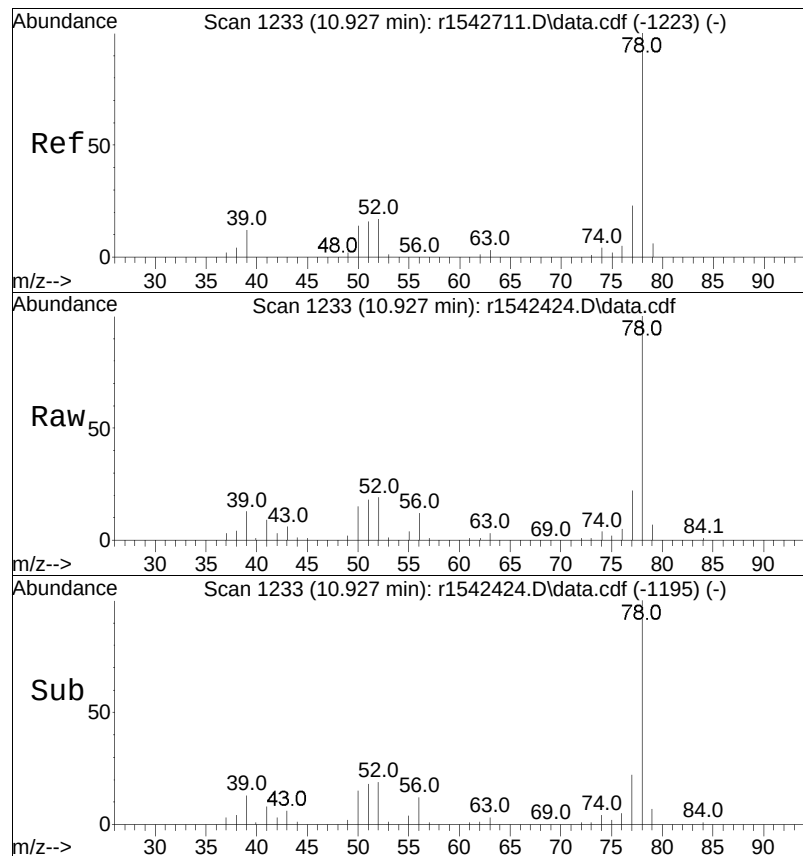




#44
hexane
Concen: 1.56 ppbV
RT: 9.192 min Scan# 1017
Delta R.T. 0.050 min
Lab File: r1542424.D
Acq: 31 Jan 2024 9:36 PM

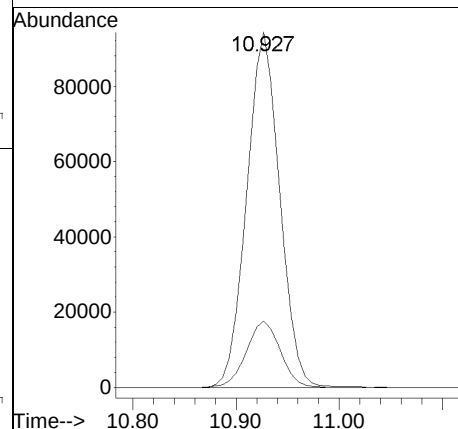
Tgt	Ion	Resp	Lower	Upper
57	100	62907		
43	128.8	146.8	220.2#	
86	13.7	12.7	19.1	

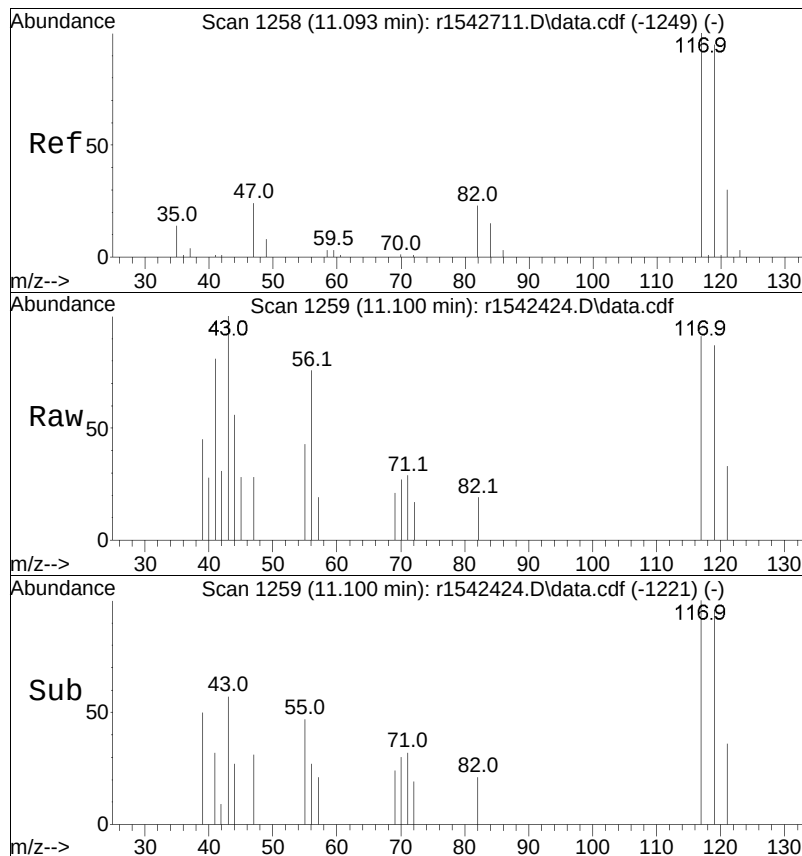




#50
benzene
Concen: 2.80 ppbV
RT: 10.927 min Scan# 1233
Delta R.T. 0.053 min
Lab File: r1542424.D
Acq: 31 Jan 2024 9:36 PM

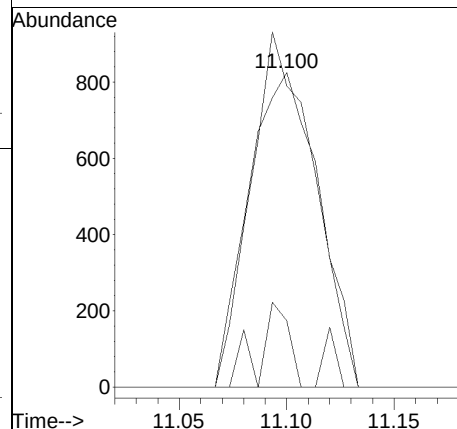
Tgt Ion: 78 Resp: 209428
Ion Ratio Lower Upper
78 100
52 18.7 14.1 21.1

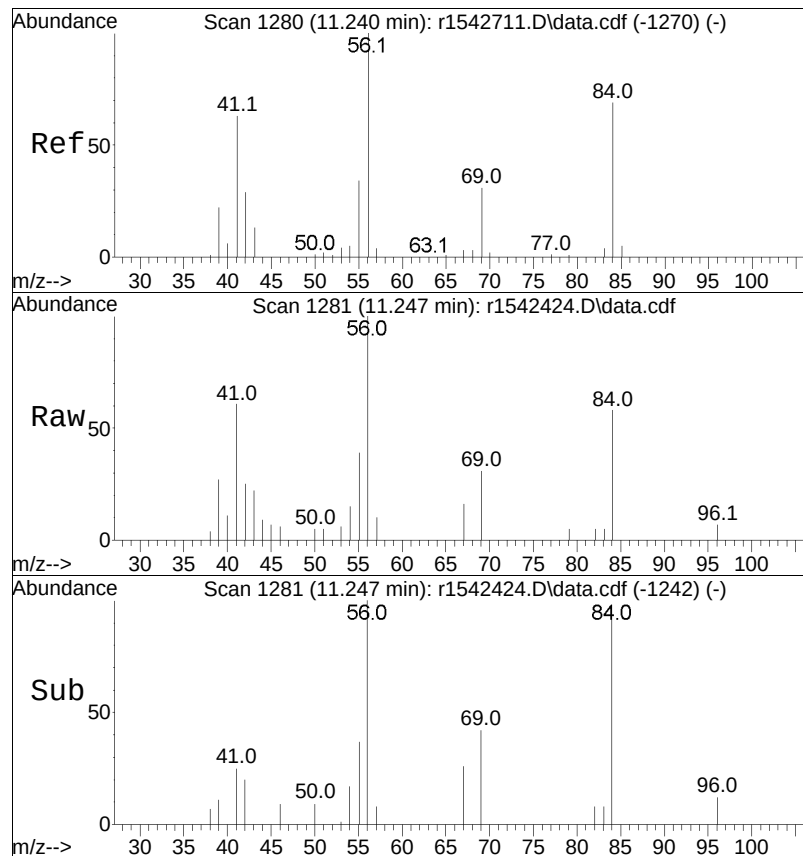




#52
 carbon tetrachloride
 Concen: 0.07 ppbV
 RT: 11.100 min Scan# 1259
 Delta R.T. 0.053 min
 Lab File: r1542424.D
 Acq: 31 Jan 2024 9:36 PM

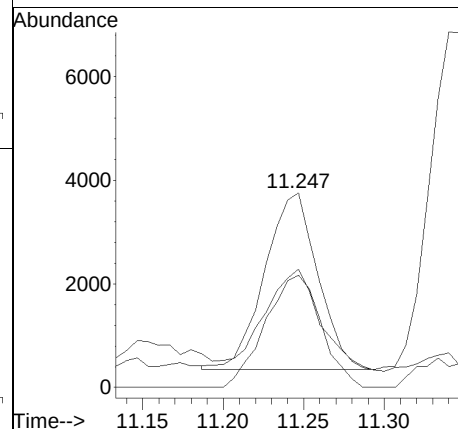
Tgt Ion:	117	Resp:	1907
Ion Ratio	Lower	Upper	
117	100		
119	95.8	77.1	115.7
82	21.2	17.2	25.8

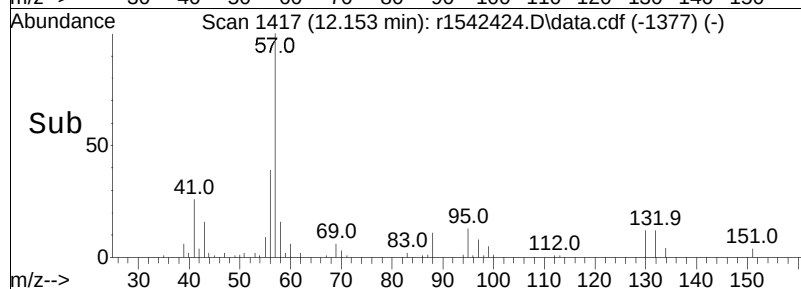
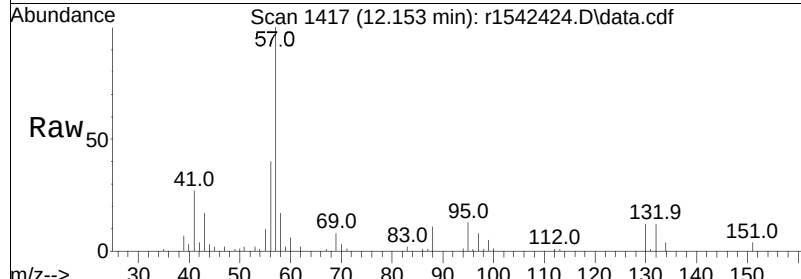
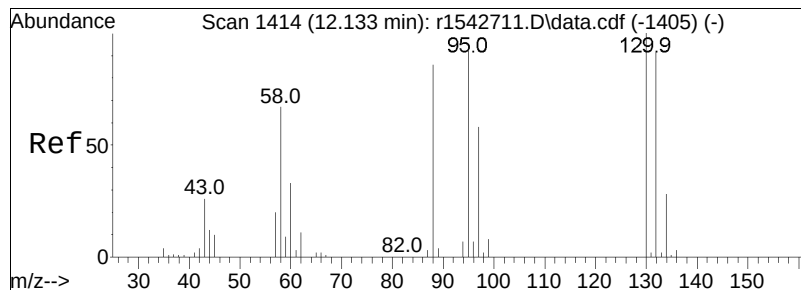




#53
cyclohexane
Concen: 0.18 ppbV
RT: 11.247 min Scan# 1281
Delta R.T. 0.060 min
Lab File: r1542424.D
Acq: 31 Jan 2024 9:36 PM

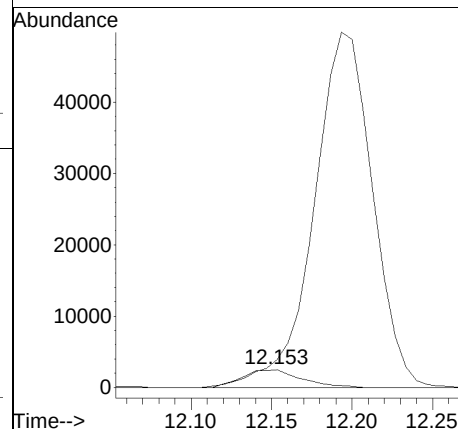
Tgt Ion:	56	Resp:	7824
Ion Ratio	Lower	Upper	
56	100		
84	57.7	60.2	90.2#
41	60.8	33.5	50.3#

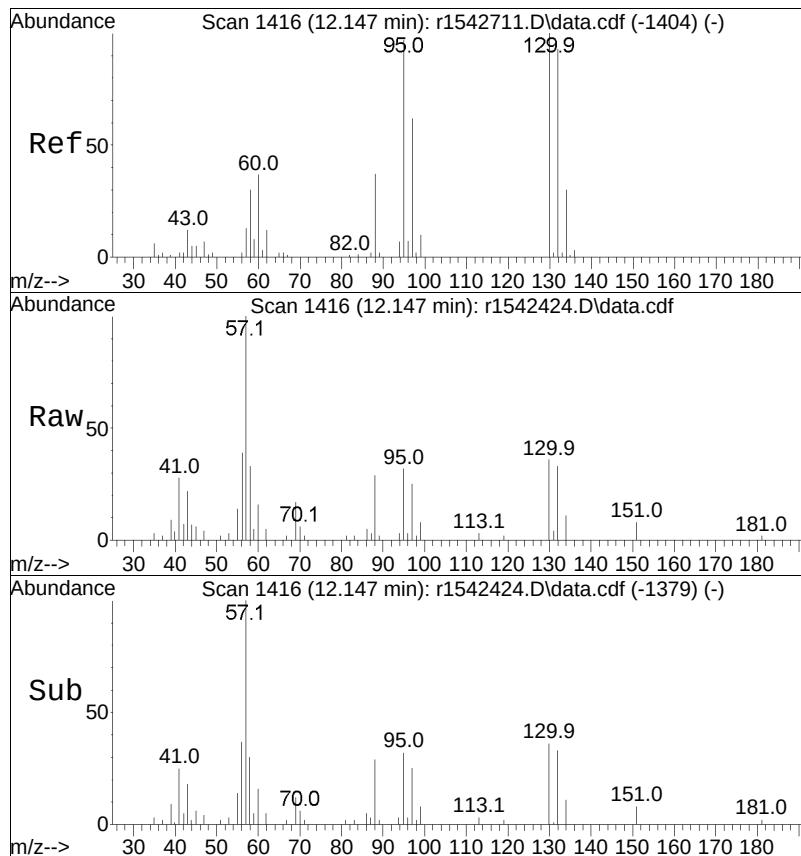




#58
 1,4-dioxane
 Concen: 0.36 ppbV
 RT: 12.153 min Scan# 1417
 Delta R.T. 0.067 min
 Lab File: r1542424.D
 Acq: 31 Jan 2024 9:36 PM

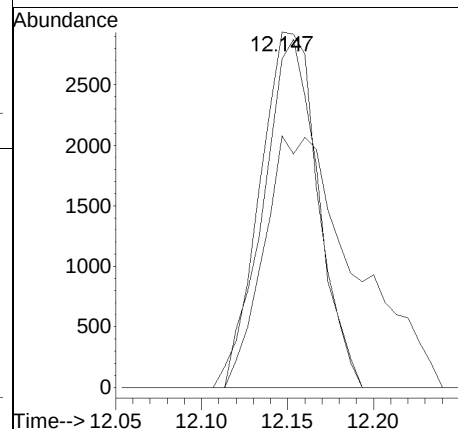
Tgt Ion	Ratio	Lower	Upper
88	100		
58	156.6	58.8	88.2#

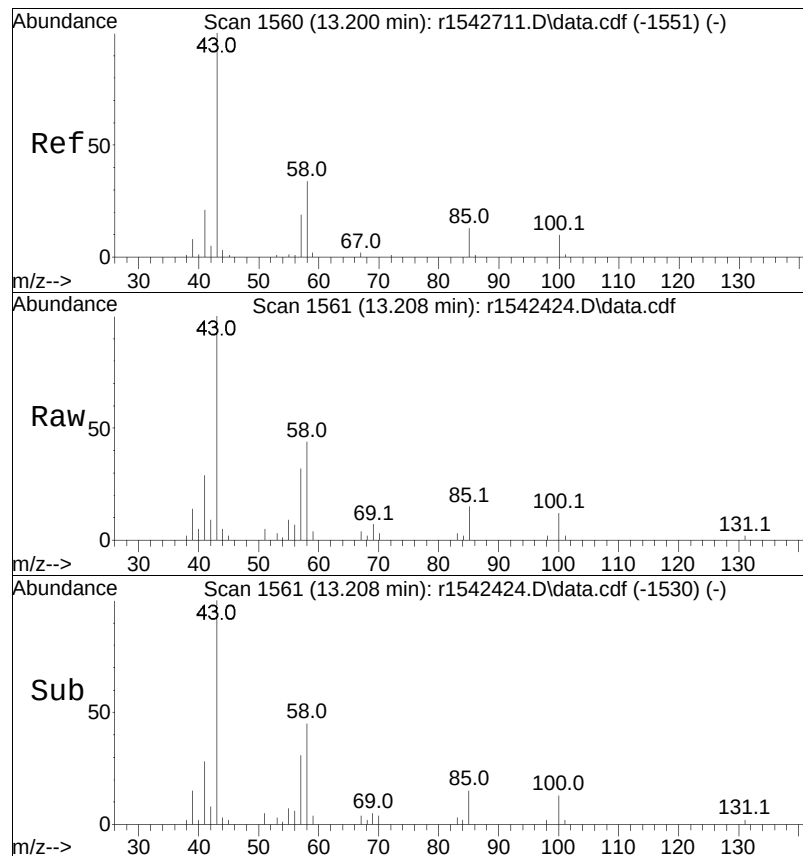




#59
 trichloroethene
 Concen: 0.23 ppbV
 RT: 12.147 min Scan# 1416
 Delta R.T. 0.047 min
 Lab File: r1542424.D
 Acq: 31 Jan 2024 9:36 PM

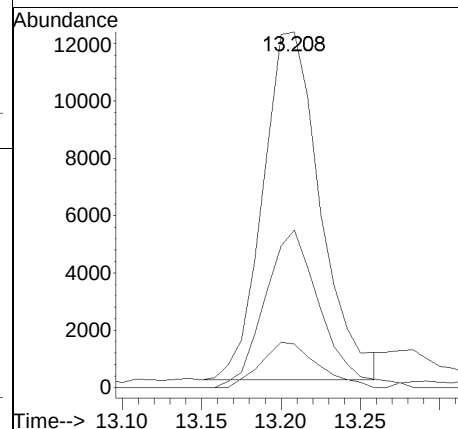
Tgt Ion	Ratio	Lower	Upper
130	100		
132	92.4	74.7	112.1
97	70.8	46.6	70.0#

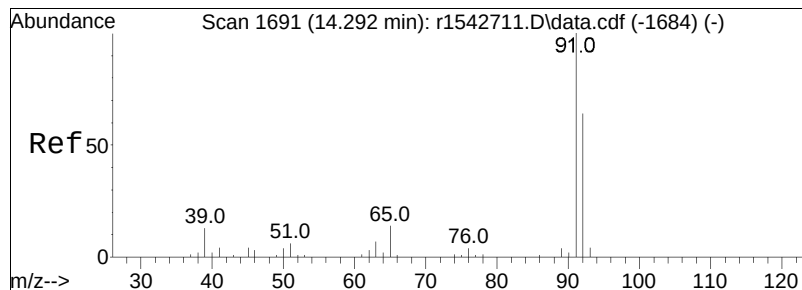




#64
 4-methyl-2-pentanone
 Concen: 0.61 ppbV
 RT: 13.208 min Scan# 1561
 Delta R.T. 0.058 min
 Lab File: r1542424.D
 Acq: 31 Jan 2024 9:36 PM

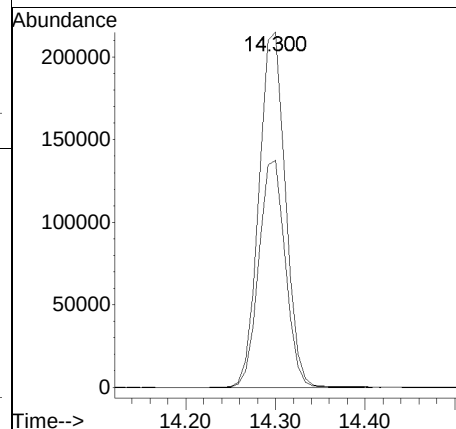
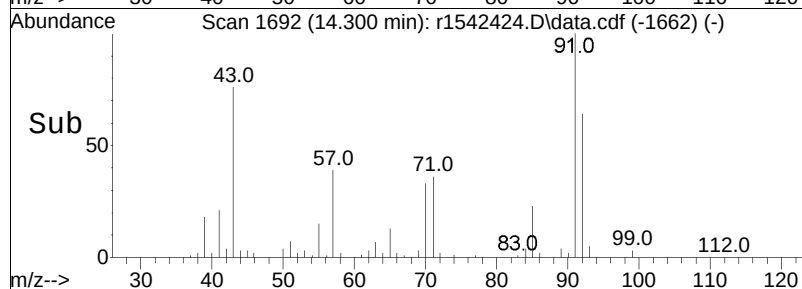
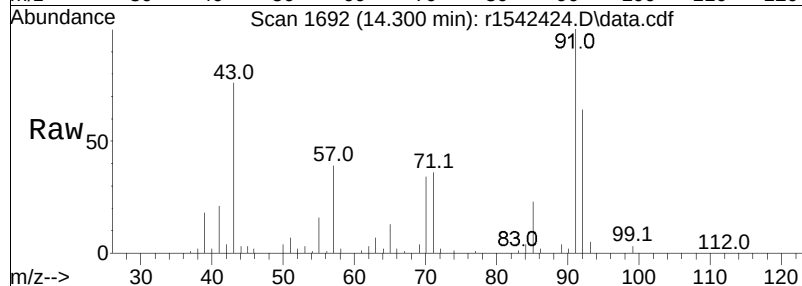
Tgt Ion:	43	Resp:	30629
Ion Ratio	Lower	Upper	
43	100		
58	44.3	39.5	59.3
100	12.2	11.8	17.6

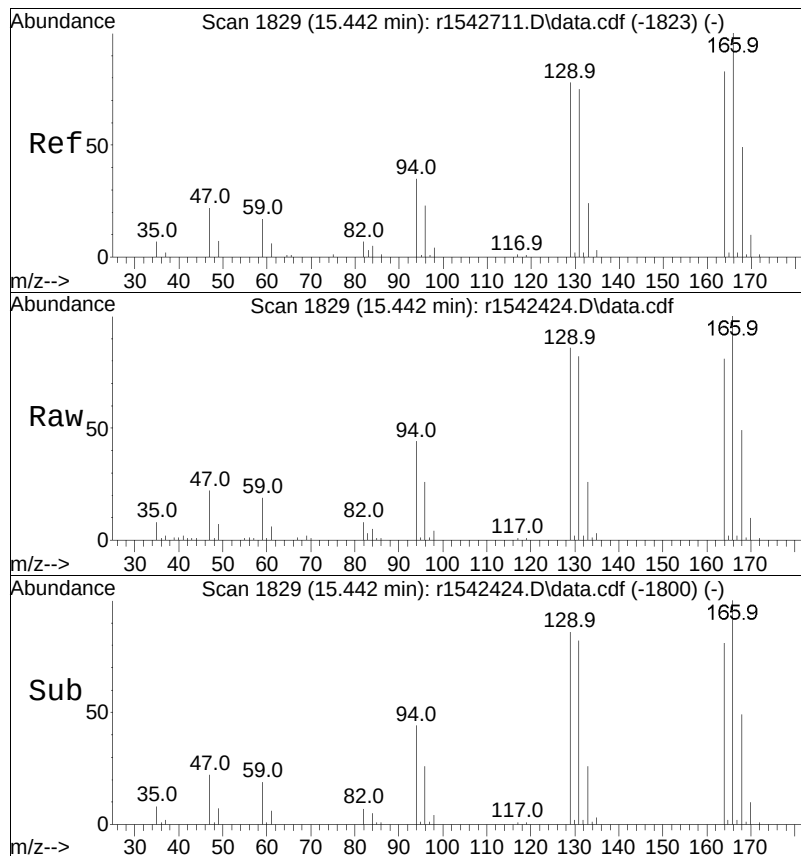




#68
toluene
Concen: 4.18 ppbV
RT: 14.300 min Scan# 1692
Delta R.T. 0.050 min
Lab File: r1542424.D
Acq: 31 Jan 2024 9:36 PM

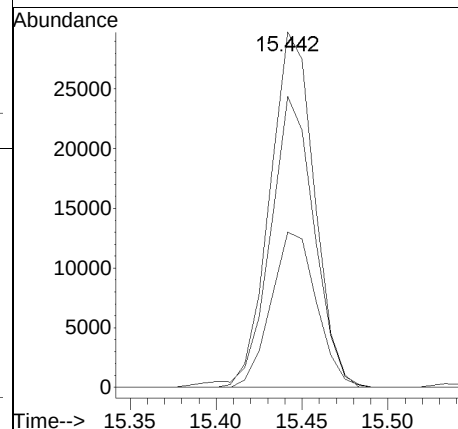
Tgt	Ion	Resp	441754
Ion	Ratio	Lower	Upper
91	100		
92	63.9	51.0	76.4

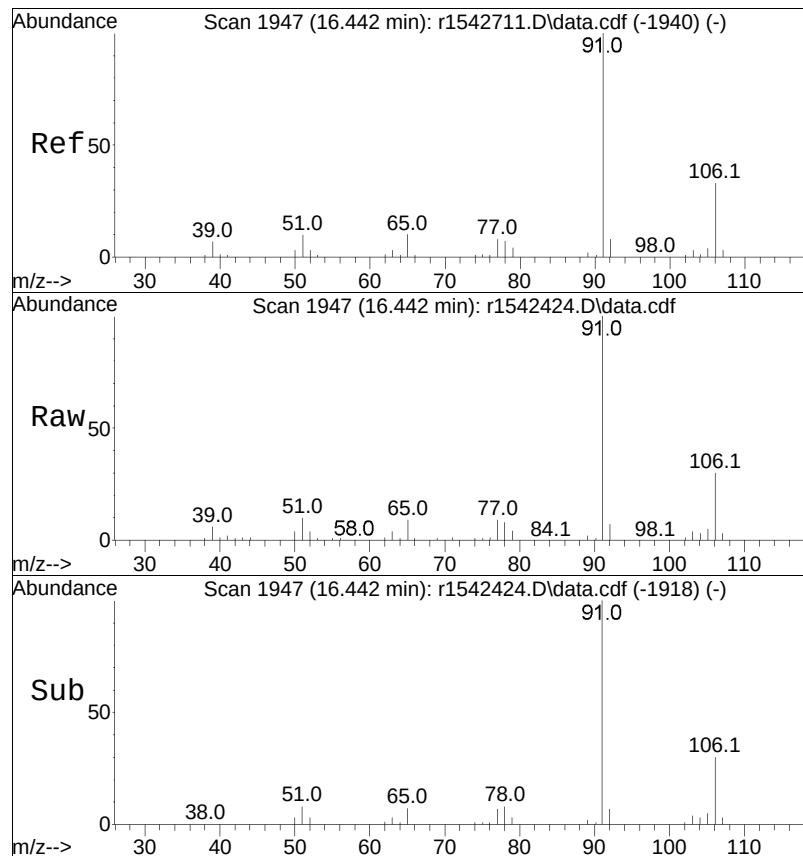




#78
 tetrachloroethene
 Concen: 1.26 ppbV
 RT: 15.442 min Scan# 1829
 Delta R.T. 0.042 min
 Lab File: r1542424.D
 Acq: 31 Jan 2024 9:36 PM

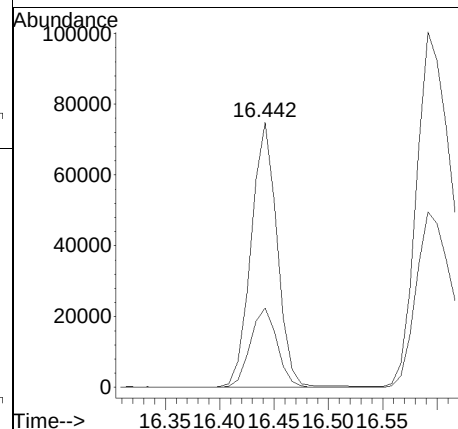
Tgt	Ion:166	Resp:	53449
Ion	Ratio	Lower	Upper
166	100		
131	81.9	55.6	83.4
94	43.7	25.4	38.2#

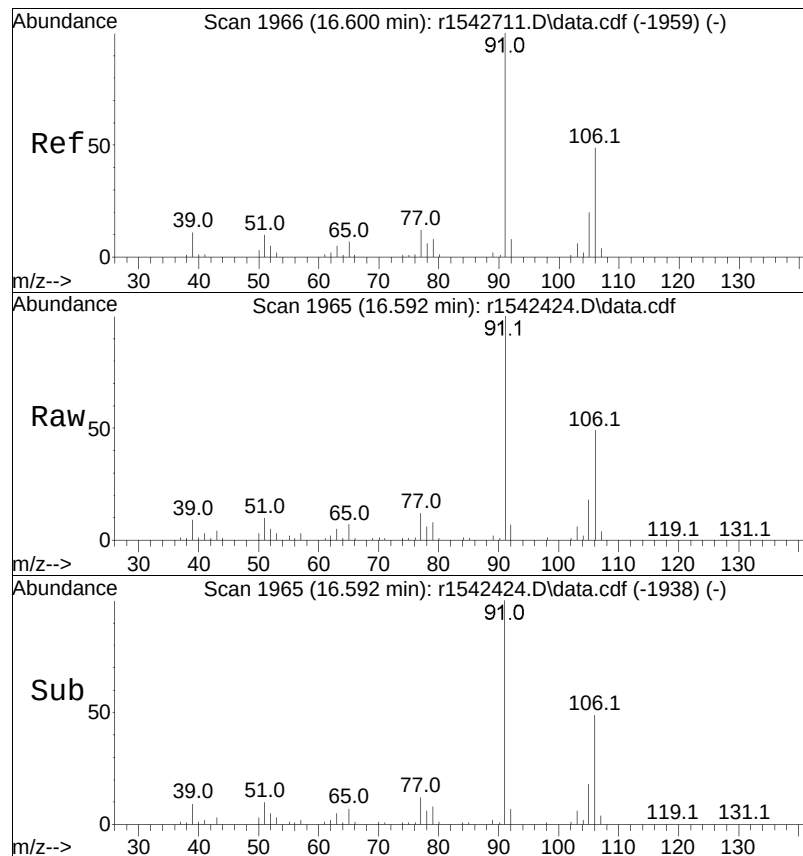




#81
ethylbenzene
Concen: 0.93 ppbV
RT: 16.442 min Scan# 1947
Delta R.T. 0.042 min
Lab File: r1542424.D
Acq: 31 Jan 2024 9:36 PM

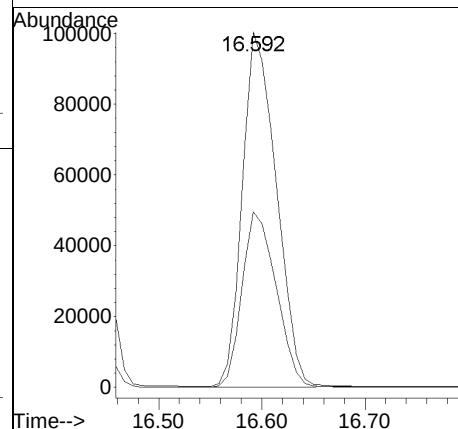
Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.0	27.7	41.5

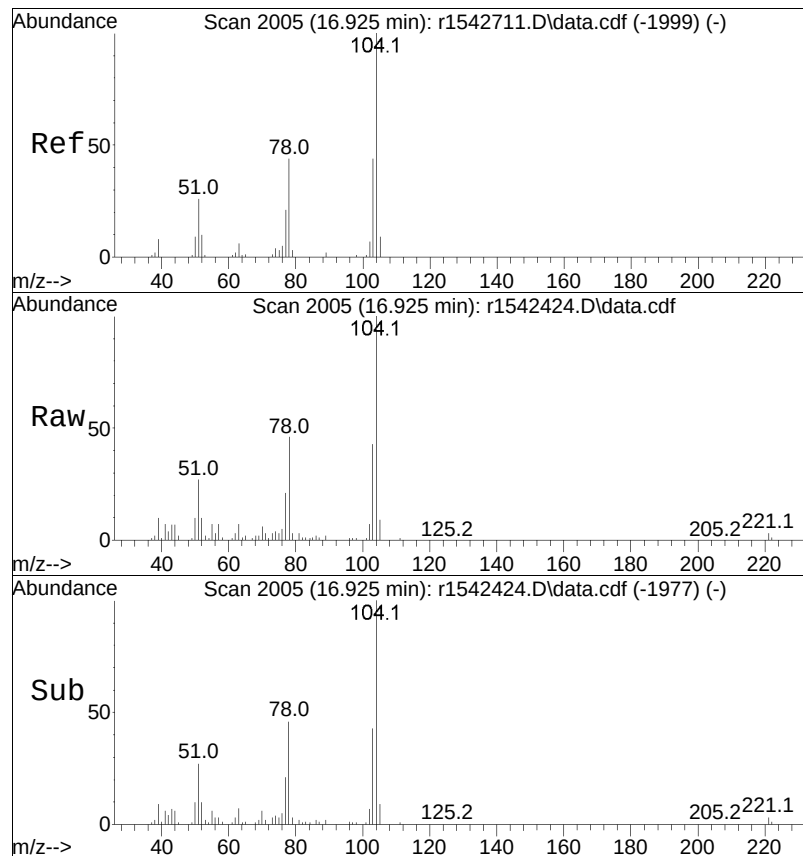




#83
 m+p-xylene
 Concen: 2.15 ppbV
 RT: 16.592 min Scan# 1965
 Delta R.T. 0.025 min
 Lab File: r1542424.D
 Acq: 31 Jan 2024 9:36 PM

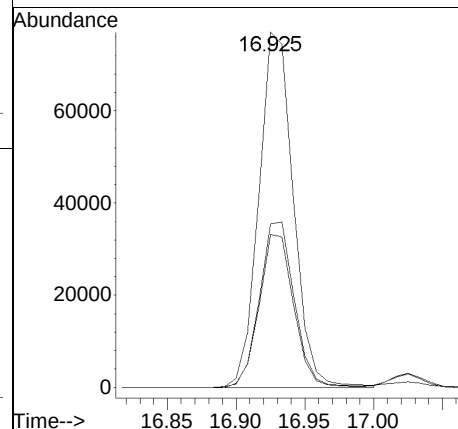
Tgt Ion	Ratio	Lower	Upper
91	100		
106	49.4	42.7	64.1

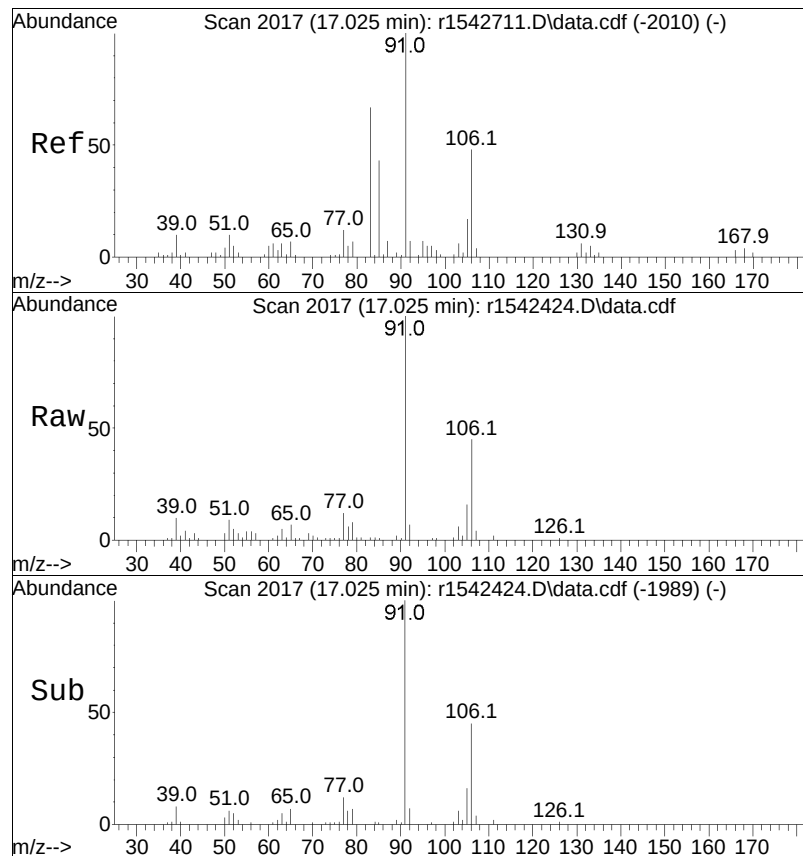




#85
styrene
Concen: 1.55 ppbV
RT: 16.925 min Scan# 2005
Delta R.T. 0.033 min
Lab File: r1542424.D
Acq: 31 Jan 2024 9:36 PM

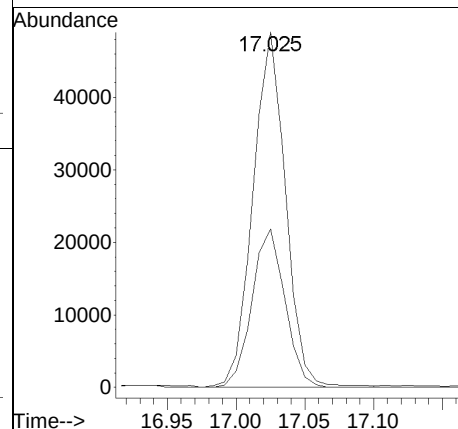
Tgt	Ion	Ratio	Lower	Upper
104	100			
103	43.1	34.9	52.3	
78	46.0	36.2	54.4	

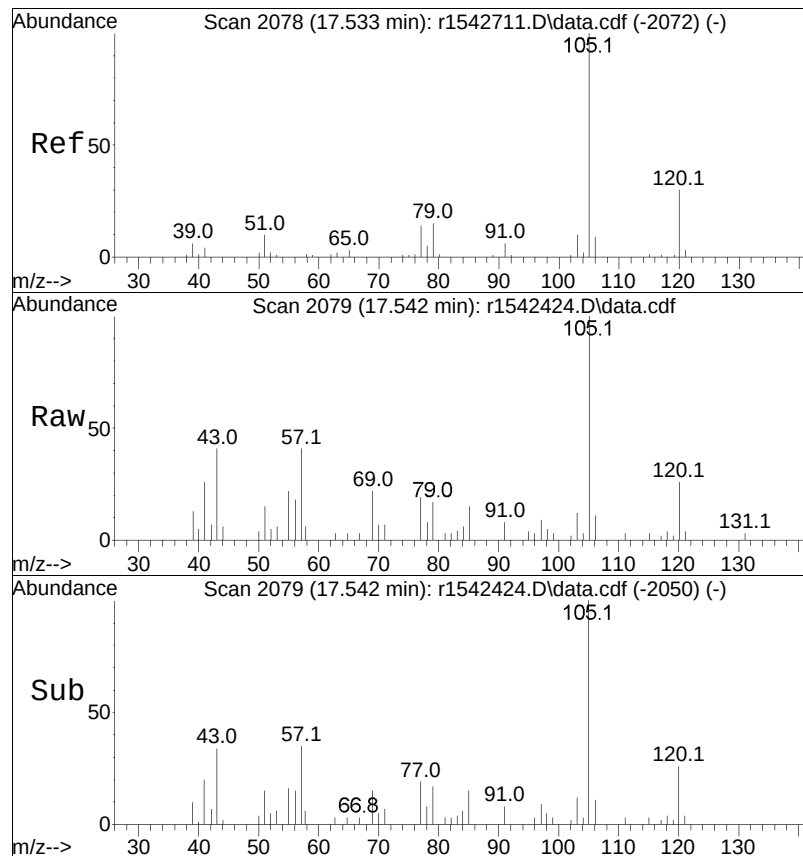




#87
 o-xylene
 Concen: 0.76 ppbV
 RT: 17.025 min Scan# 2017
 Delta R.T. 0.033 min
 Lab File: r1542424.D
 Acq: 31 Jan 2024 9:36 PM

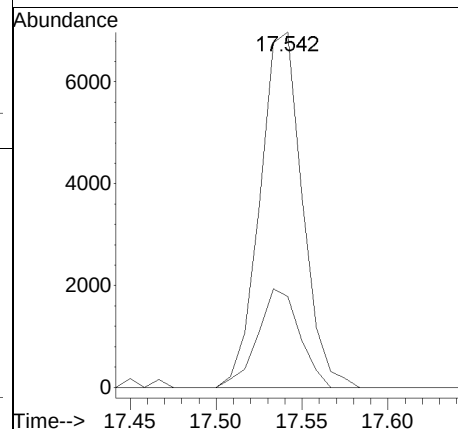
Tgt Ion:	91	Resp:	80882
Ion Ratio	Lower	Upper	
91	100		
106	44.6	40.0	60.0

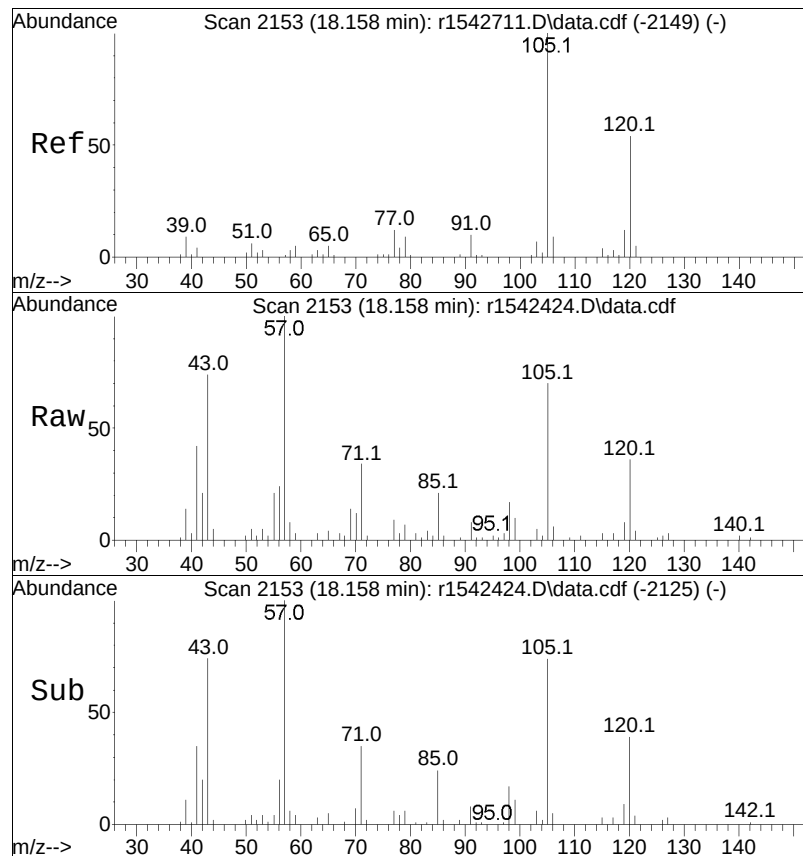




#91
 isopropylbenzene
 Concen: 0.09 ppbV
 RT: 17.542 min Scan# 2079
 Delta R.T. 0.042 min
 Lab File: r1542424.D
 Acq: 31 Jan 2024 9:36 PM

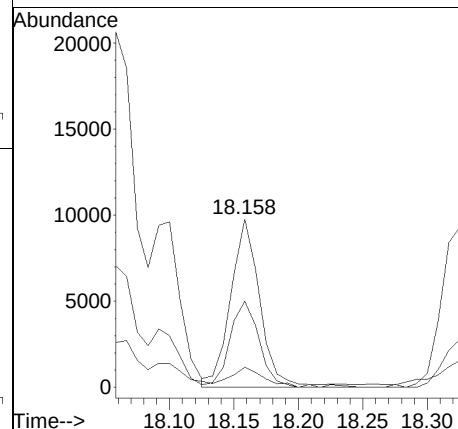
Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.6	26.2	39.4#

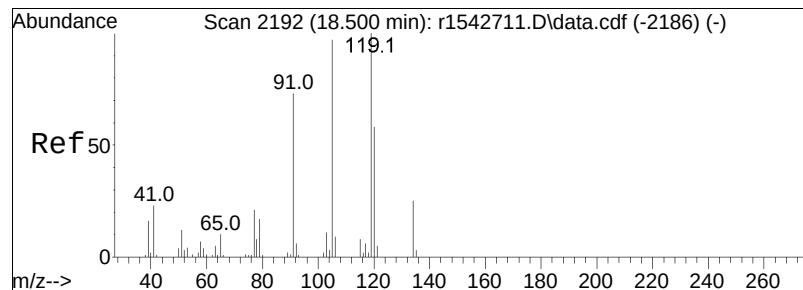




#97
 1,3,5-trimethylbenzene
 Concen: 0.13 ppbV
 RT: 18.158 min Scan# 2153
 Delta R.T. 0.033 min
 Lab File: r1542424.D
 Acq: 31 Jan 2024 9:36 PM

Tgt Ion	Ratio	Lower	Upper
105	100		
120	51.2	46.0	69.0
91	12.0	7.5	11.3





#99

1,2,4-trimethylbenzene

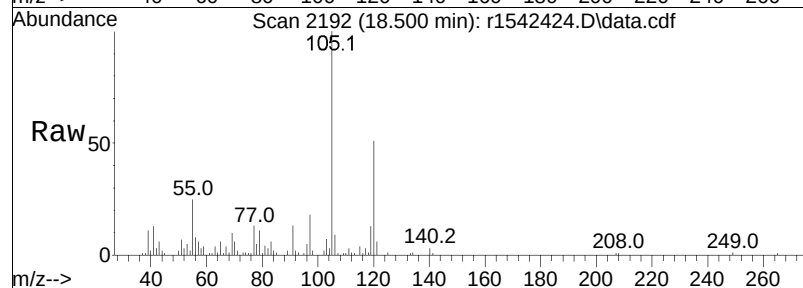
Concen: 0.43 ppbV m

RT: 18.500 min Scan# 2192

Delta R.T. 0.033 min

Lab File: r1542424.D

Acq: 31 Jan 2024 9:36 PM



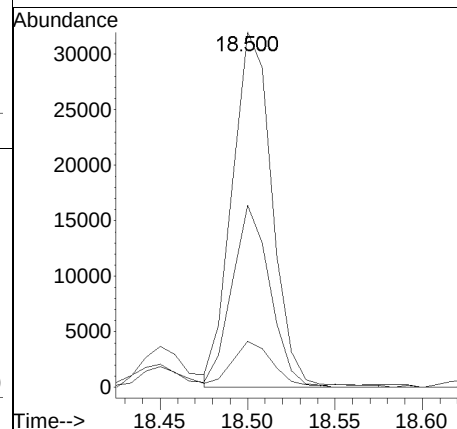
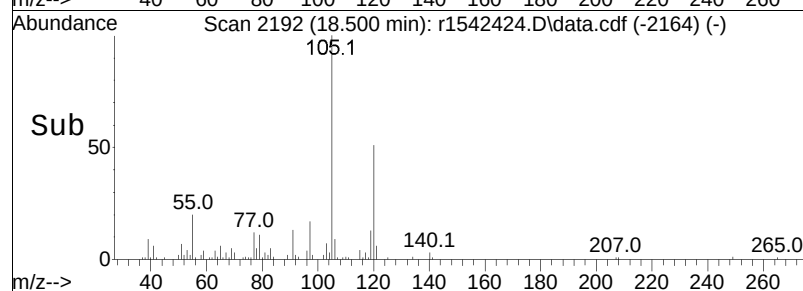
Tgt Ion:105 Resp: 51129

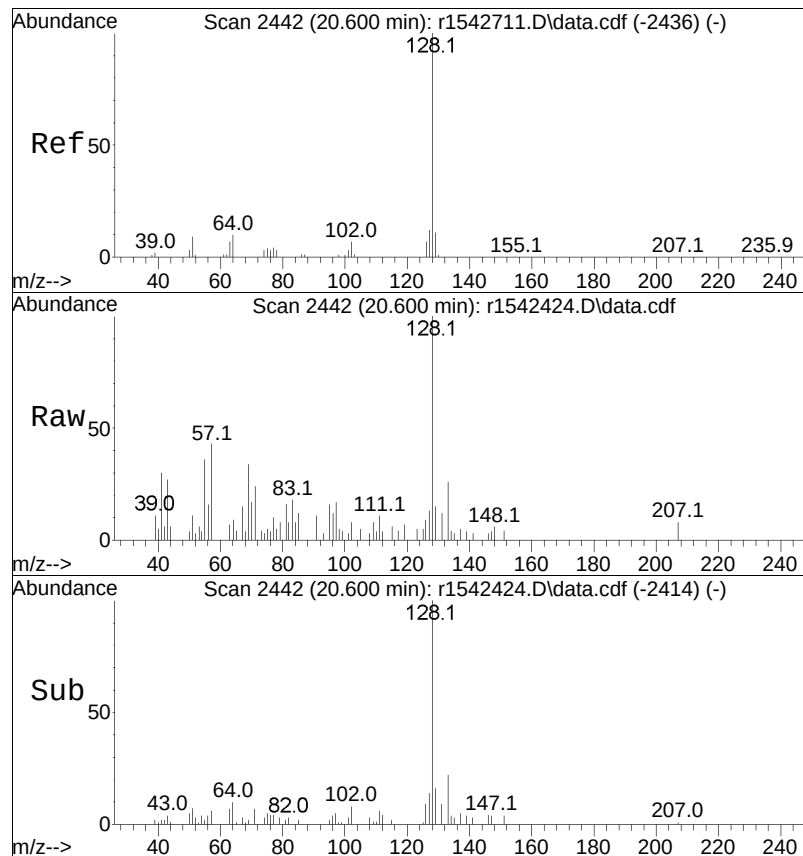
Ion Ratio Lower Upper

105 100

120 51.3 51.8 77.6#

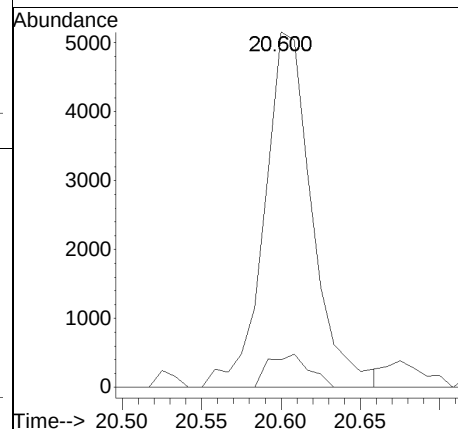
91 13.0 58.3 87.5#





#116
 naphthalene
 Concen: 0.07 ppbV
 RT: 20.600 min Scan# 2442
 Delta R.T. 0.033 min
 Lab File: r1542424.D
 Acq: 31 Jan 2024 9:36 PM

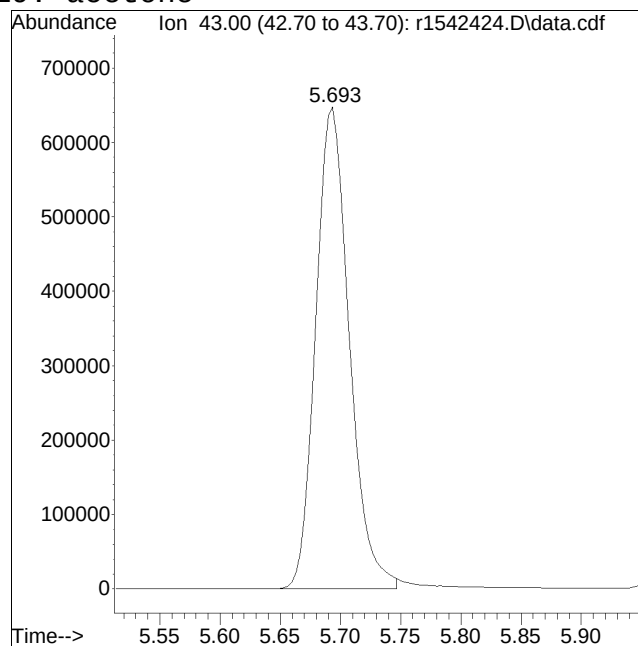
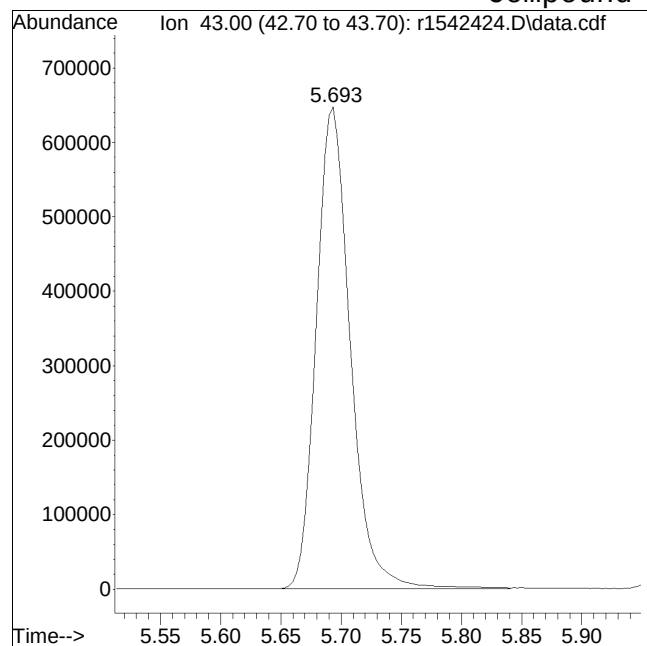
Tgt Ion	Ratio	Lower	Upper
128	100		
102	7.7	5.4	8.2



Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1542424.D Operator : AIRLAB15:JMB
Date Inj'd : 1/31/2020 0:9: 6 Instrument :
Sample : L2403288-03,3,250,250 Quant Date : 2/1/2024 6:48 am

Compound #19: acetone



Original Peak Response = 1275725

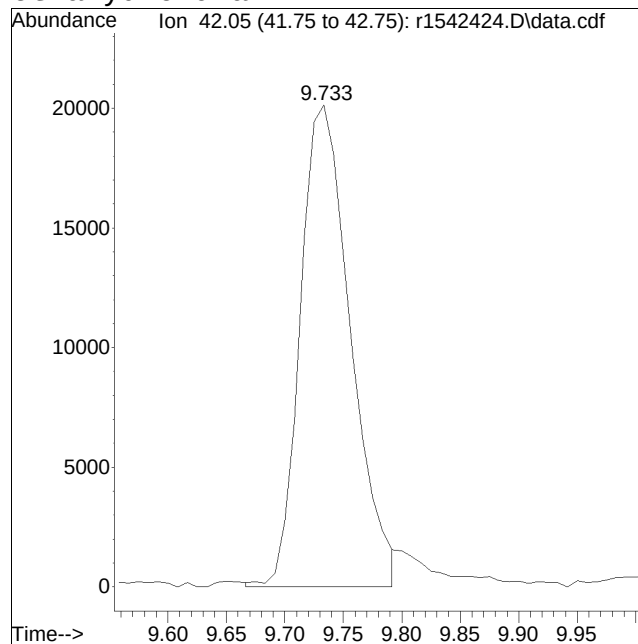
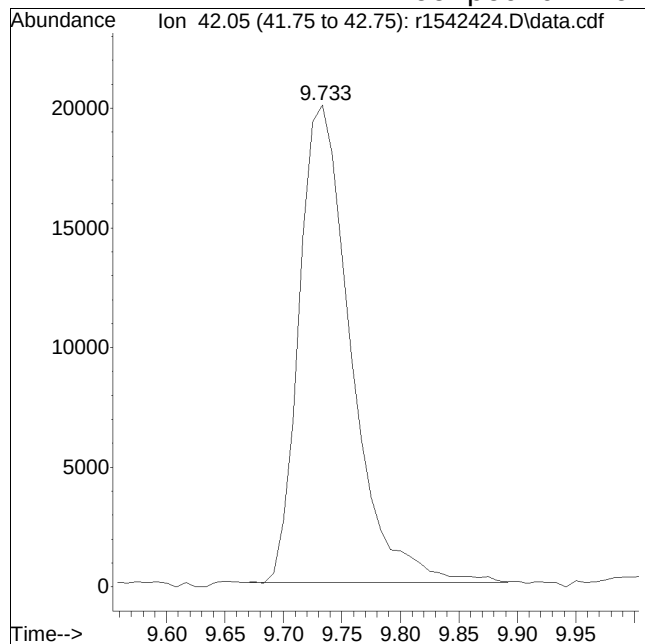
Manual Peak Response = 1255560 M6

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

Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1542424.D Operator : AIRLAB15:JMB
Date Inj'd : 1/31/2020 0:9: 6 Instrument :
Sample : L2403288-03,3,250,250 Quant Date : 2/1/2024 6:48 am

Compound #40: Tetrahydrofuran



Original Peak Response = 61443

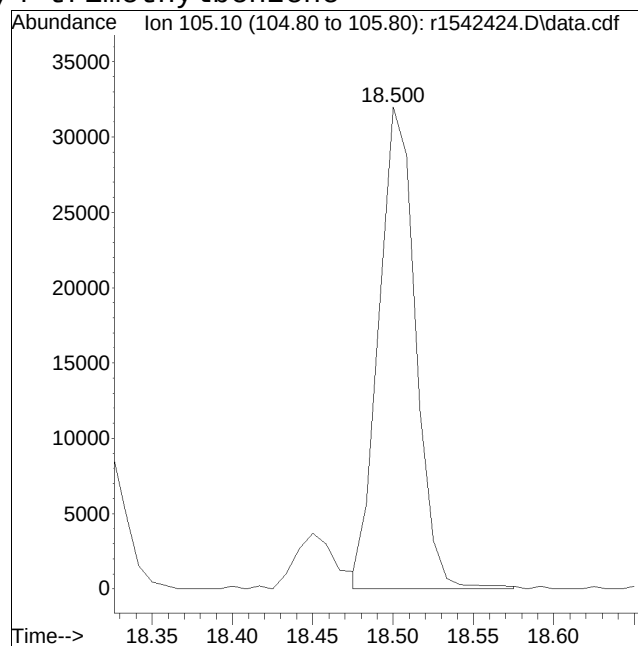
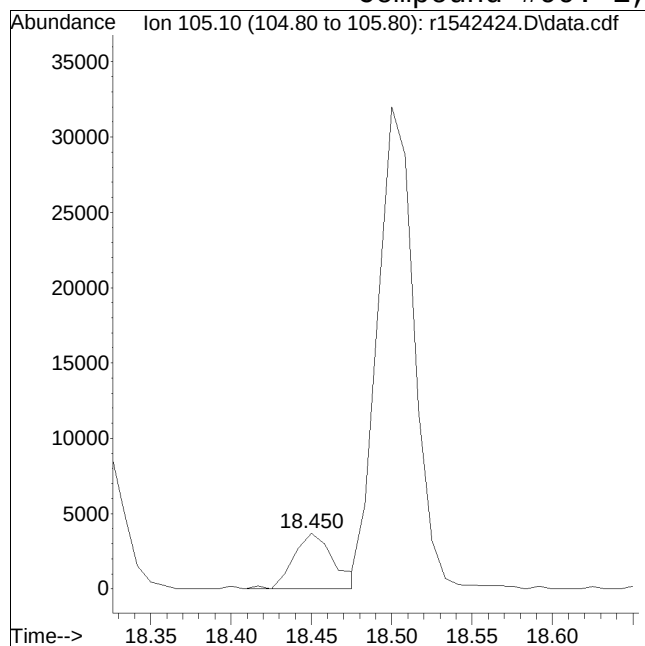
Manual Peak Response = 60130 M3

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

Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1542424.D Operator : AIRLAB15:JMB
Date Inj'd : 1/31/2020 0:9: 6 Instrument :
Sample : L2403288-03,3,250,250 Quant Date : 2/1/2024 6:48 am

Compound #99: 1,2,4-trimethylbenzene



Original Peak Response = 6485

Manual Peak Response = 51129 M3

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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542425.D
 Acq On : 31 Jan 2024 10:15 PM
 Operator : AIRLAB15:JMB
 Sample : L2403288-05,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 06:50:49 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131T\r1542413.D
 Sub List : PADEP-T015 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.133	49	357616	10.000	ppbV	0.06
Standard Area = 375210			Recovery =	95.31%		
43) 1,4-difluorobenzene	11.347	114	939341	10.000	ppbV	# 0.05
Standard Area = 971110			Recovery =	96.73%		
67) chlorobenzene-D5	16.050	54	218176	10.000	ppbV	0.04
Standard Area = 187857			Recovery =	116.14%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	4.036	85	22465	0.552	ppbV	95
6) chloromethane	4.198	50	3945	0.258	ppbV	95
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	4.576		0	N.D.		
13) bromomethane	4.852		0	N.D.		
14) chloroethane	0.000		0	N.D.		
17) vinyl bromide	5.390		0	N.D.		
18) acrolein	5.563	56	1345	0.162	ppbV	# 38
19) acetone	5.700	43	588283	29.144	ppbV	# 85
21) trichlorofluoromethane	5.890	101	16469	0.541	ppbV	97
22) isopropyl alcohol	5.980	45	821627	32.306	ppbV	97
23) acrylonitrile	6.213	53	7995	0.441	ppbV	99
26) 1,1-dichloroethene	0.000		0	N.D.	d	
28) methylene chloride	6.732	49	48248	1.750	ppbV	90
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	7.038	76	21340	0.330	ppbV	# 77
31) Freon 113	7.026	101	2492	0.062	ppbV	# 80
32) trans-1,2-dichloroethene	7.783		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.	d	
37) cis-1,2-dichloroethene	0.000		0	N.D.		
39) chloroform	9.283	83	2016	0.046	ppbV	# 92
40) Tetrahydrofuran	9.742	42	21177	0.713	ppbV	# 82
42) 1,2-dichloroethane	10.117		0	N.D.		
44) hexane	9.200	57	25000	0.608	ppbV	# 65
48) 1,1,1-trichloroethane	0.000		0	N.D.		
50) benzene	10.927	78	21760	0.286	ppbV	94
52) carbon tetrachloride	11.093	117	1355	0.048	ppbV	# 72

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542425.D
 Acq On : 31 Jan 2024 10:15 PM
 Operator : AIRLAB15:JMB
 Sample : L2403288-05,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 06:50:49 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131T\r1542413.D
 Sub List : PADEP-T015 - .

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
53)	cyclohexane	11.253	56	5119	0.114	ppbV	#	76
56)	1,2-dichloropropane	0.000		0	N.D.			
57)	bromodichloromethane	0.000		0	N.D.	d		
58)	1,4-dioxane	0.000		0	N.D.	d		
59)	trichloroethene	12.153	130	5329	0.178	ppbV	#	92
61)	methyl methacrylate	0.000		0	N.D.	d		
64)	4-methyl-2-pentanone	13.217	43	7924M6	0.155	ppbV		
66)	1,1,2-trichloroethane	13.858		0	N.D.			
68)	toluene	14.300	91	152454	1.219	ppbV		99
71)	1,3-dichloropropane	14.292		0	N.D.			
74)	dibromochloromethane	0.000		0	N.D.			
75)	1,2-dibromoethane	0.000		0	N.D.			
78)	tetrachloroethene	15.442	166	24509	0.488	ppbV	#	91
80)	chlorobenzene	16.025		0	N.D.			
81)	ethylbenzene	16.442	91	43243	0.270	ppbV		97
83)	m+p-xylene	16.592	91	90295	0.715	ppbV		93
84)	bromoform	0.000		0	N.D.			
85)	styrene	16.933	104	51322	0.501	ppbV		97
86)	1,1,2,2-tetrachloroethane	16.942		0	N.D.			
87)	o-xylene	17.025	91	31875	0.253	ppbV		96
91)	isopropylbenzene	17.533	105	6685	0.042	ppbV		96
97)	1,3,5-trimethylbenzene	18.158	105	7149	0.046	ppbV	#	92
99)	1,2,4-trimethylbenzene	18.500	105	27500M3	0.194	ppbV		
101)	Benzyl Chloride	18.633		0	N.D.			
103)	1,4-dichlorobenzene	18.633		0	N.D.			
107)	1,2-dichlorobenzene	18.983		0	N.D.			
115)	1,2,4-trichlorobenzene	0.000		0	N.D.			
116)	naphthalene	20.608	128	8660	0.045	ppbV	#	94

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

Sub List : PADEP-T015 - .ata\Airlab15\2024\01\0131T\r1542413.D

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\

Data File : r1542425.D

Acq On : 31 Jan 2024 10:15 PM

Operator : AIRLAB15:JMB

Sample : L2403288-05,3,250,250

Misc : WG1880230,ICAL20574

ALS Vial : 0 Sample Multiplier: 1

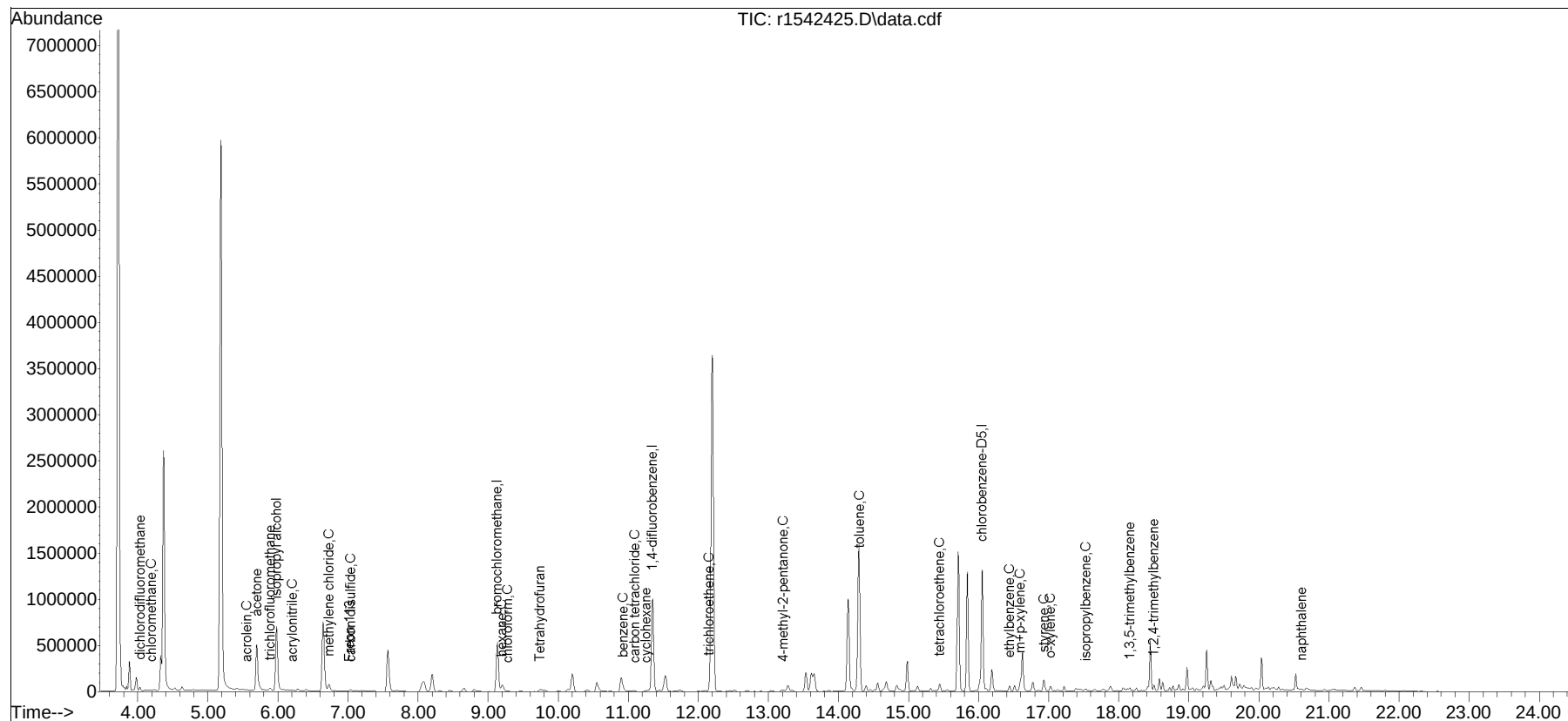
Quant Time: Feb 01 06:50:49 2024

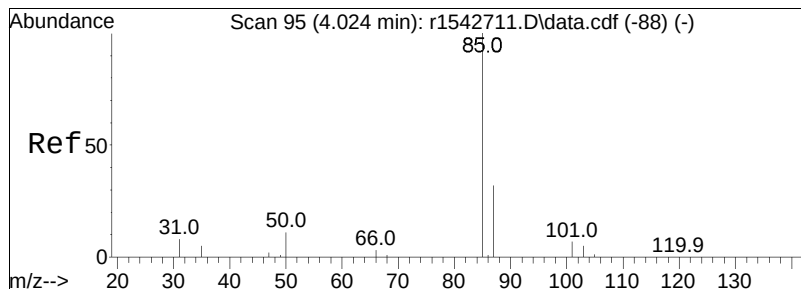
Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

QLast Update : Tue Nov 21 15:43:21 2023

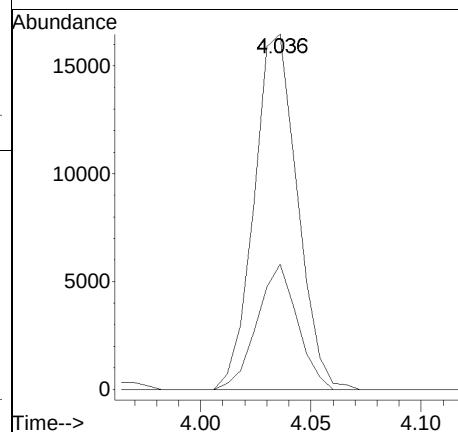
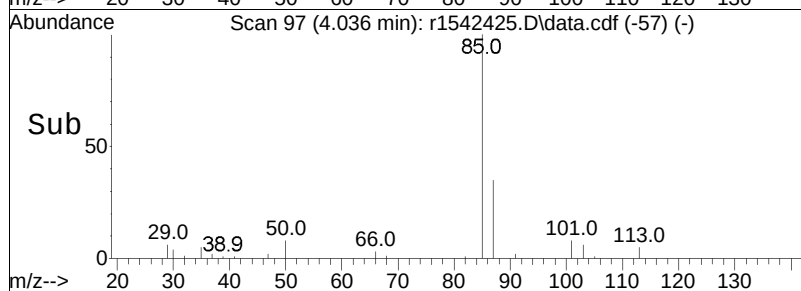
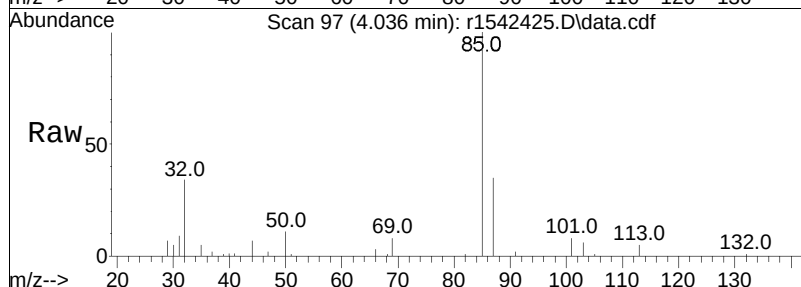
Response via : Initial Calibration

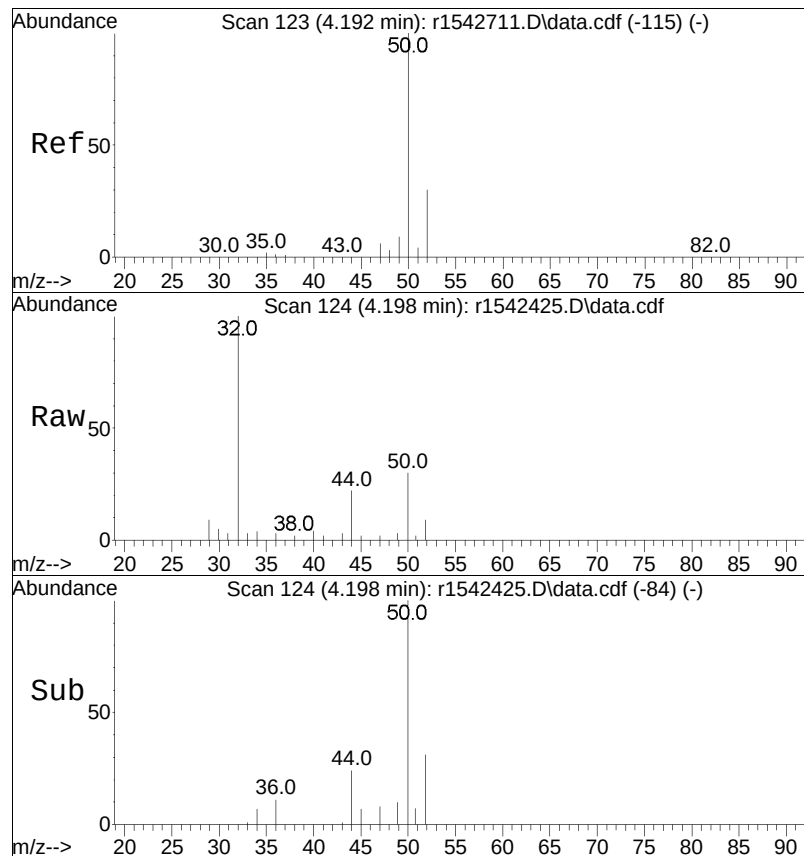




#5
dichlorodifluoromethane
Concen: 0.55 ppbV
RT: 4.036 min Scan# 97
Delta R.T. 0.042 min
Lab File: r1542425.D
Acq: 31 Jan 2024 10:15 PM

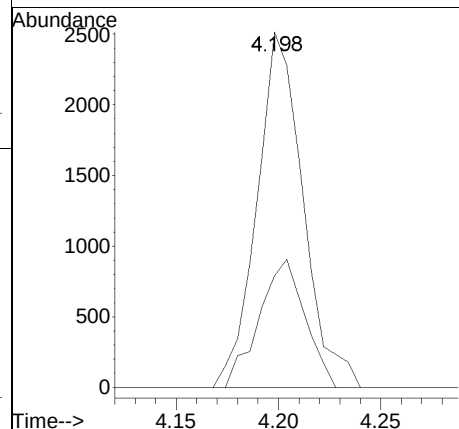
Tgt Ion: 85 Resp: 22465
Ion Ratio Lower Upper
85 100
87 35.2 26.1 39.1

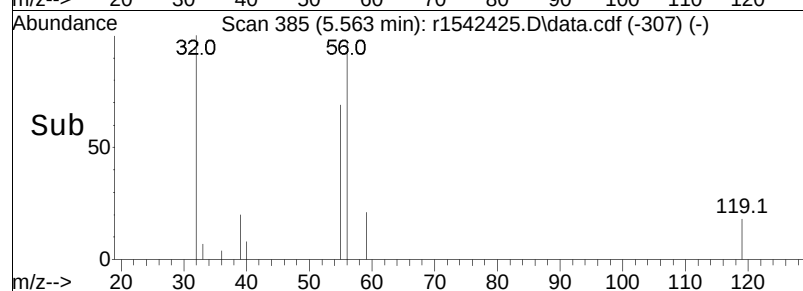
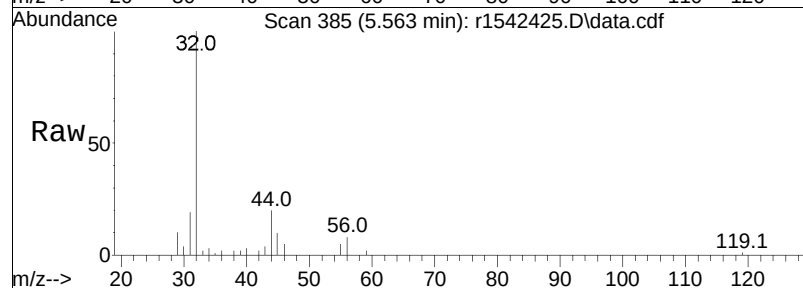
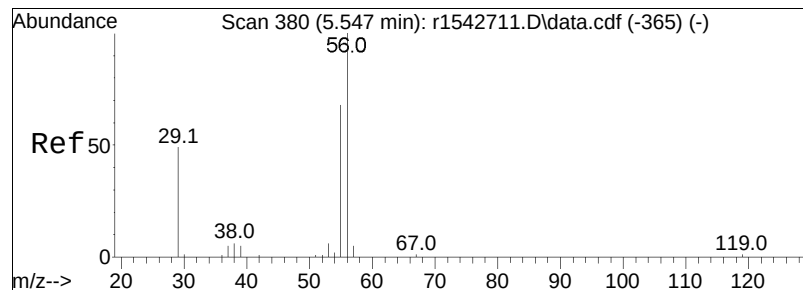




#6
 chloromethane
 Concen: 0.26 ppbV
 RT: 4.198 min Scan# 124
 Delta R.T. 0.042 min
 Lab File: r1542425.D
 Acq: 31 Jan 2024 10:15 PM

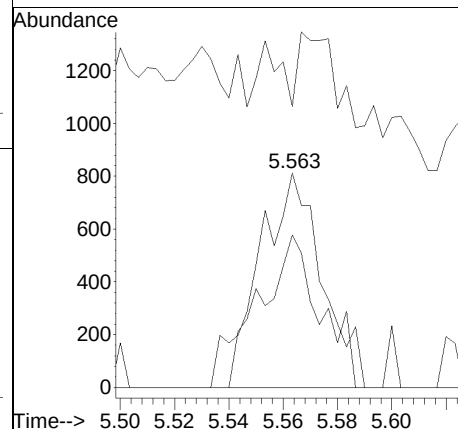
Tgt Ion	Ratio	Lower	Upper
50	100		
52	31.4	27.4	41.2

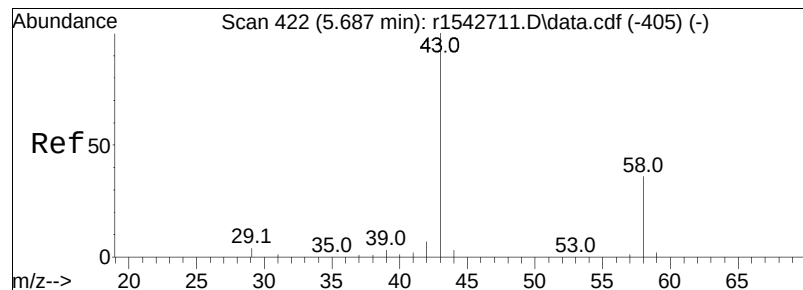




#18
acrolein
Concen: 0.16 ppbV
RT: 5.563 min Scan# 385
Delta R.T. 0.060 min
Lab File: r1542425.D
Acq: 31 Jan 2024 10:15 PM

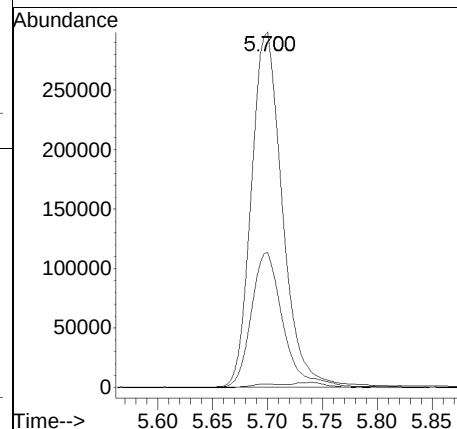
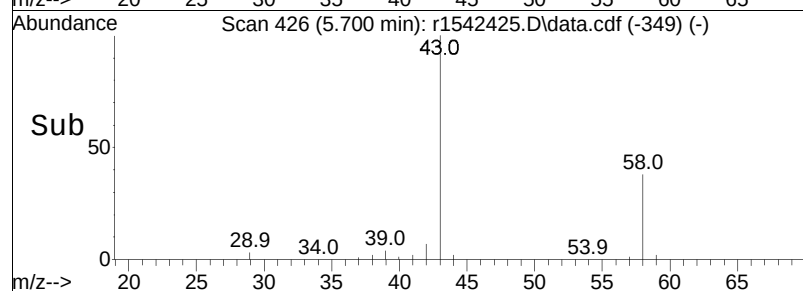
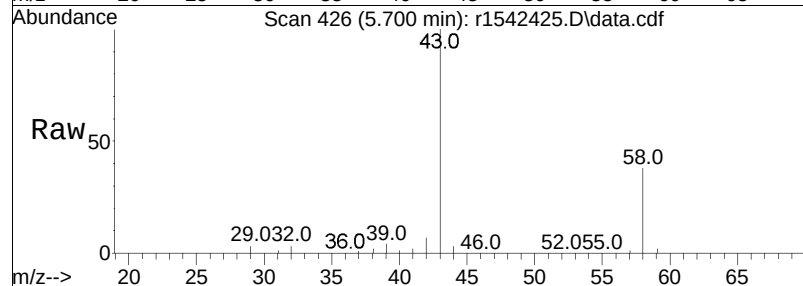
Tgt Ion	Ratio	Lower	Upper
56	100		
55	71.1	52.3	78.5
29	131.0	28.6	43.0

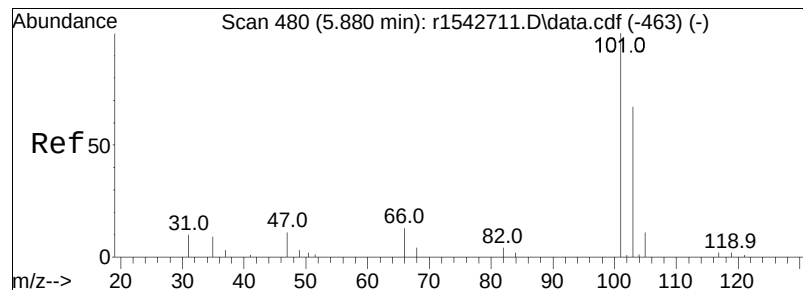




#19
acetone
Concen: 29.14 ppbV
RT: 5.700 min Scan# 426
Delta R.T. 0.057 min
Lab File: r1542425.D
Acq: 31 Jan 2024 10:15 PM

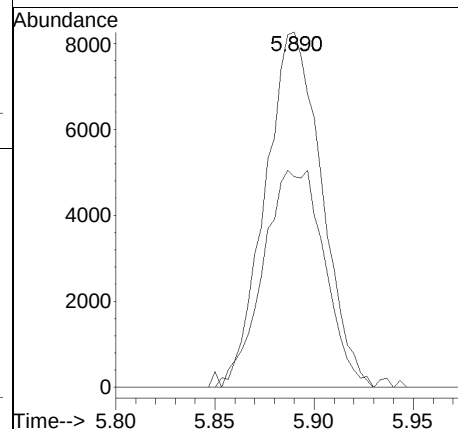
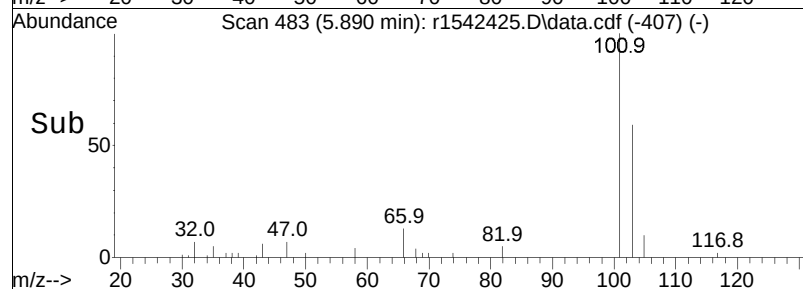
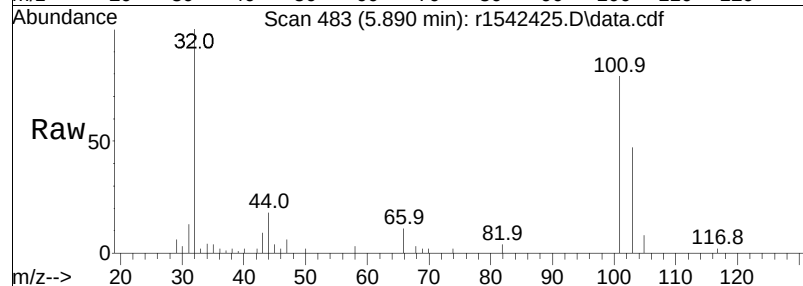
Tgt Ion	Ratio	Lower	Upper
43	100		
58	38.0	39.0	58.4#
57	0.9	0.9	1.3

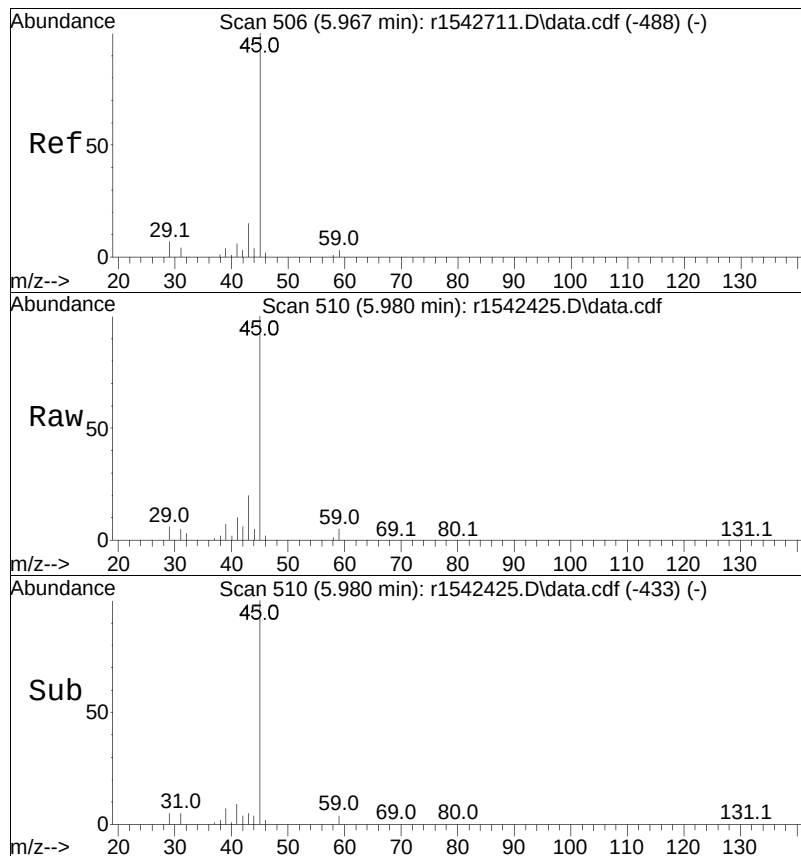




#21
trichlorofluoromethane
Concen: 0.54 ppbV
RT: 5.890 min Scan# 483
Delta R.T. 0.053 min
Lab File: r1542425.D
Acq: 31 Jan 2024 10:15 PM

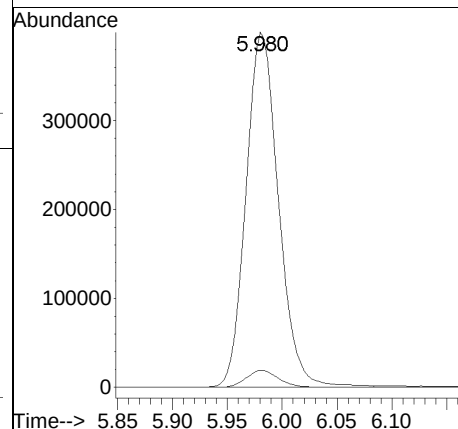
Tgt Ion	Ratio	Lower	Upper
101	100		
103	59.3	49.4	74.0

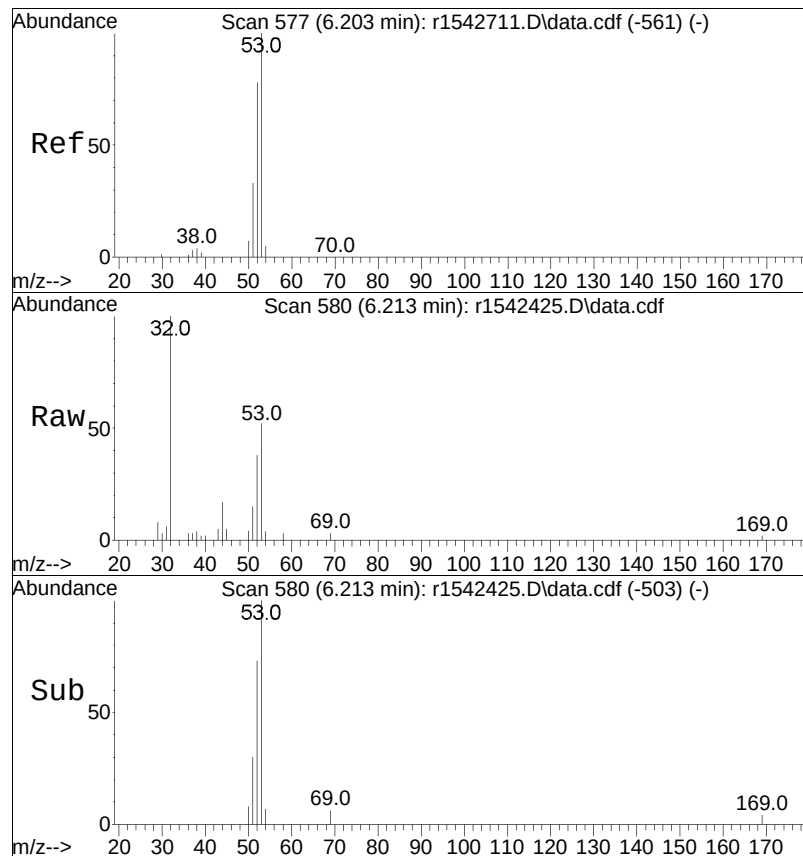




#22
 isopropyl alcohol
 Concen: 32.31 ppbV
 RT: 5.980 min Scan# 510
 Delta R.T. 0.057 min
 Lab File: r1542425.D
 Acq: 31 Jan 2024 10:15 PM

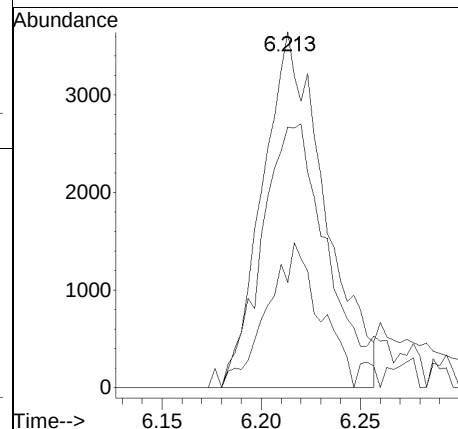
Tgt Ion	Ratio	Lower	Upper
45	100		
59	4.7	4.6	6.8

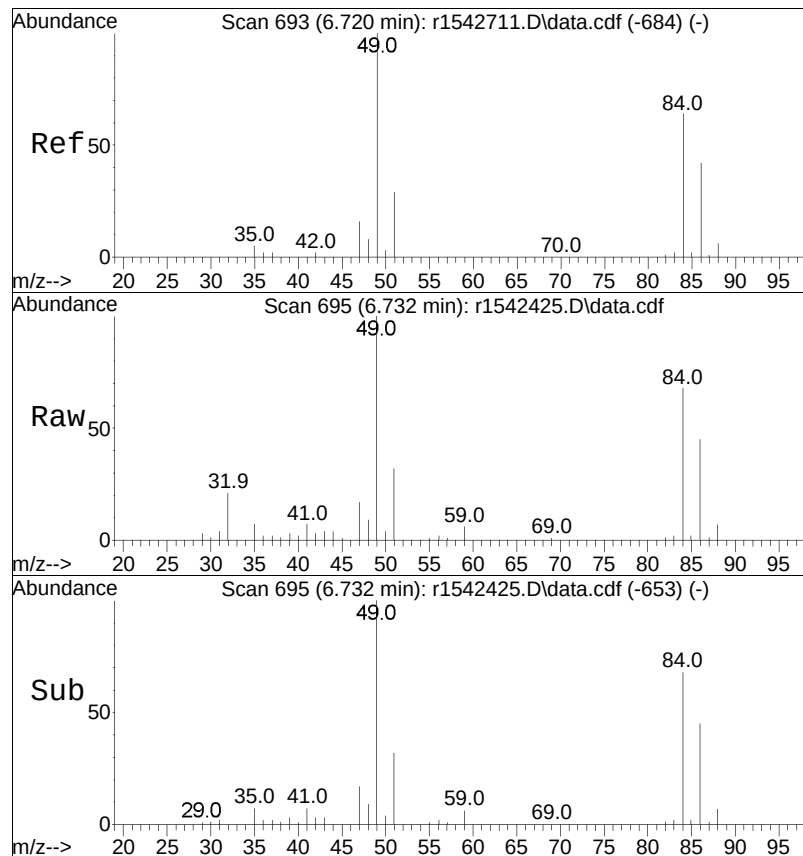




#23
acrylonitrile
Concen: 0.44 ppbV
RT: 6.213 min Scan# 580
Delta R.T. 0.057 min
Lab File: r1542425.D
Acq: 31 Jan 2024 10:15 PM

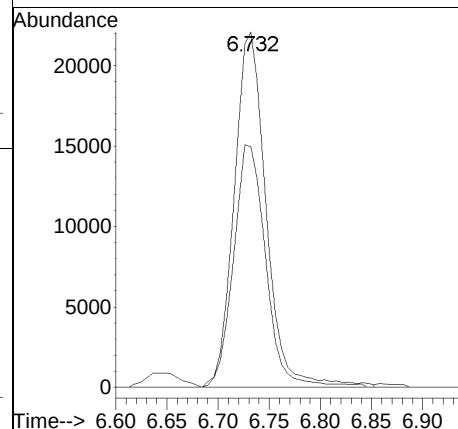
Tgt	Ion: 53	Resp:	7995
Ion	Ratio	Lower	Upper
53	100		
52	73.2	59.1	88.7
51	29.6	24.5	36.7

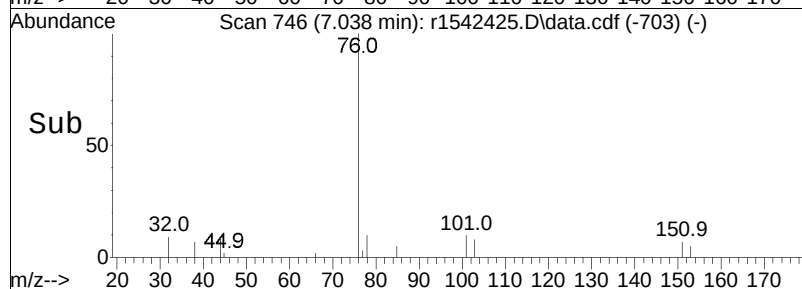
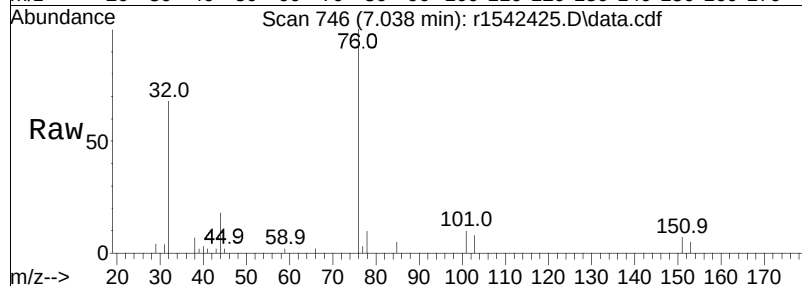
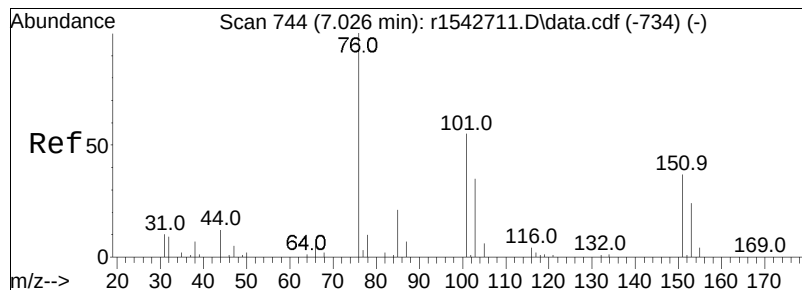




#28
 methylene chloride
 Concen: 1.75 ppbV
 RT: 6.732 min Scan# 695
 Delta R.T. 0.054 min
 Lab File: r1542425.D
 Acq: 31 Jan 2024 10:15 PM

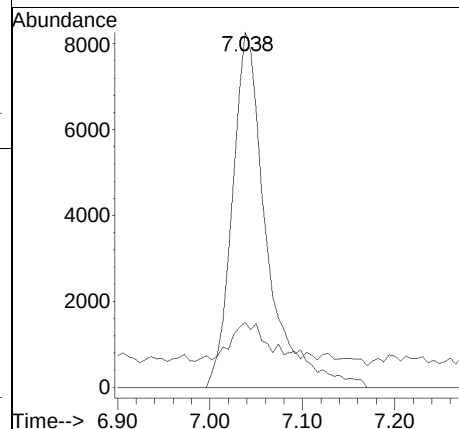
Tgt Ion:	49	84	Ratio	Lower	Upper
Resp:	48248				
	100				
	67.7	61.2		91.8	

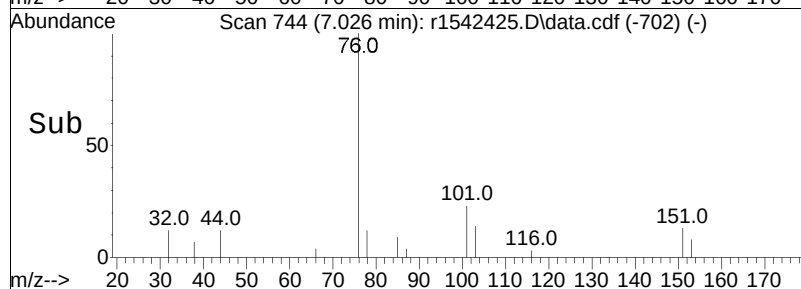
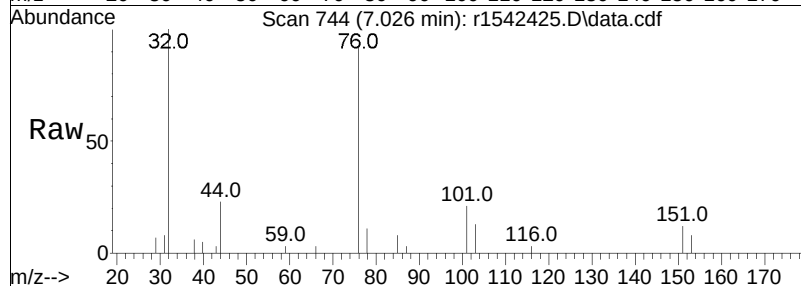
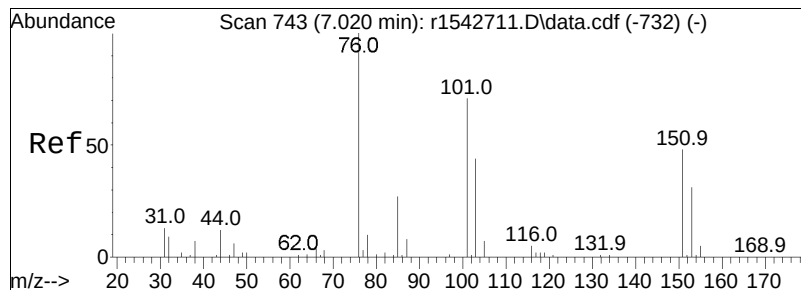




#30
carbon disulfide
Concen: 0.33 ppbV
RT: 7.038 min Scan# 746
Delta R.T. 0.060 min
Lab File: r1542425.D
Acq: 31 Jan 2024 10:15 PM

Tgt Ion	Ratio	Lower	Upper
76	100		
44	18.3	7.8	11.6#





#31

Freon 113

Concen: 0.06 ppbV

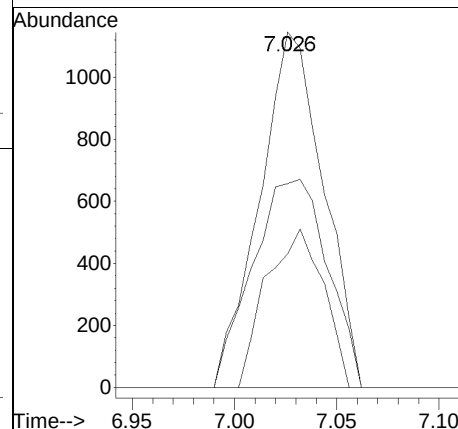
RT: 7.026 min Scan# 744

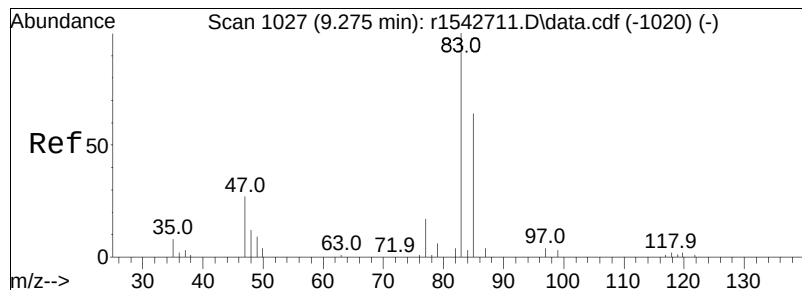
Delta R.T. 0.054 min

Lab File: r1542425.D

Acq: 31 Jan 2024 10:15 PM

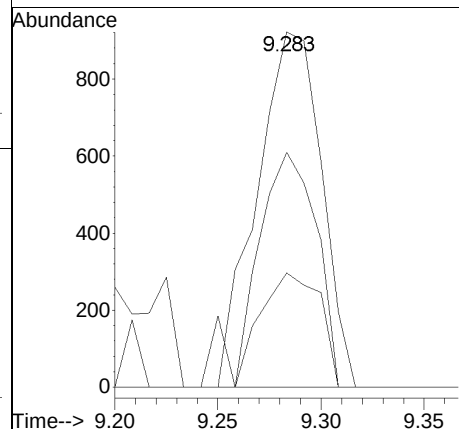
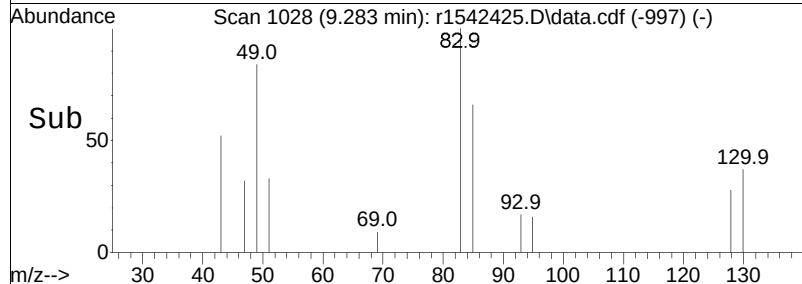
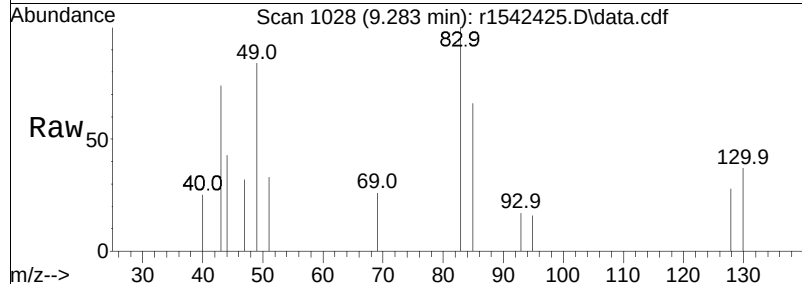
Tgt	Ion:101	Resp:	2492
Ion	Ratio	Lower	Upper
101	100		
85	37.6	35.3	52.9
151	57.4	63.8	95.8#

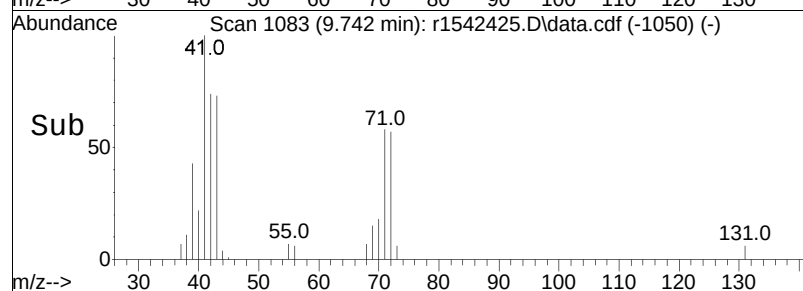
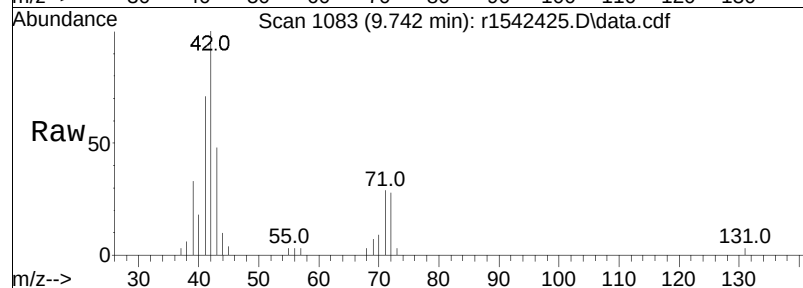
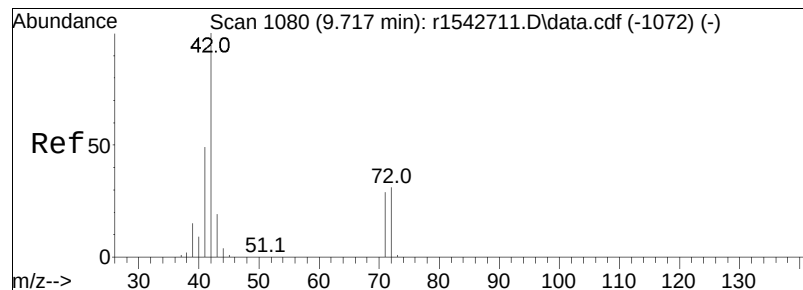




#39
chloroform
Concen: 0.05 ppbV
RT: 9.283 min Scan# 1028
Delta R.T. 0.058 min
Lab File: r1542425.D
Acq: 31 Jan 2024 10:15 PM

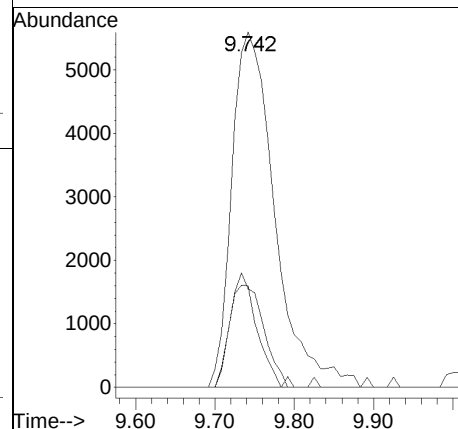
Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.2	51.5	77.3
47	32.2	15.9	23.9

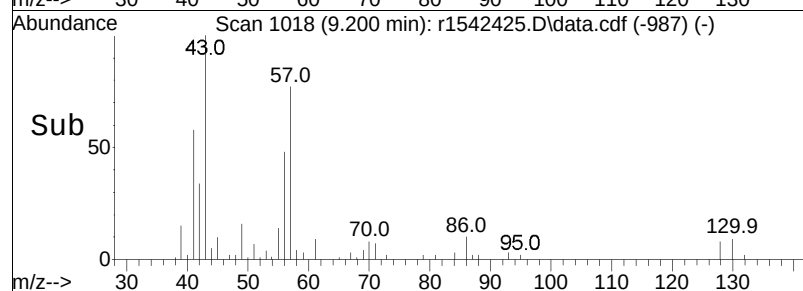
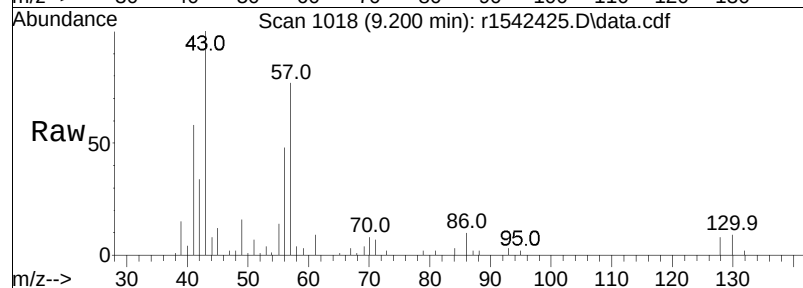
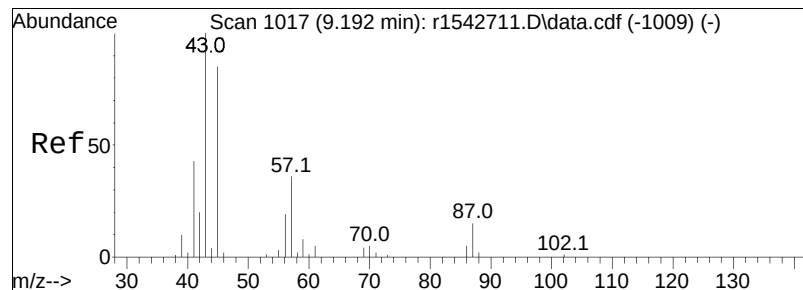




#40
Tetrahydrofuran
Concen: 0.71 ppbV
RT: 9.742 min Scan# 1083
Delta R.T. 0.075 min
Lab File: r1542425.D
Acq: 31 Jan 2024 10:15 PM

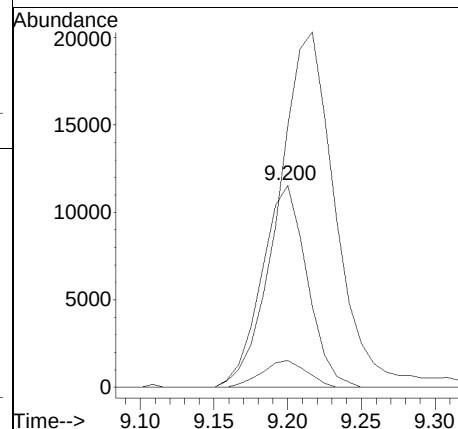
Tgt Ion	Ratio	Lower	Upper
42	100		
71	28.6	30.6	46.0#
72	27.8	32.5	48.7#

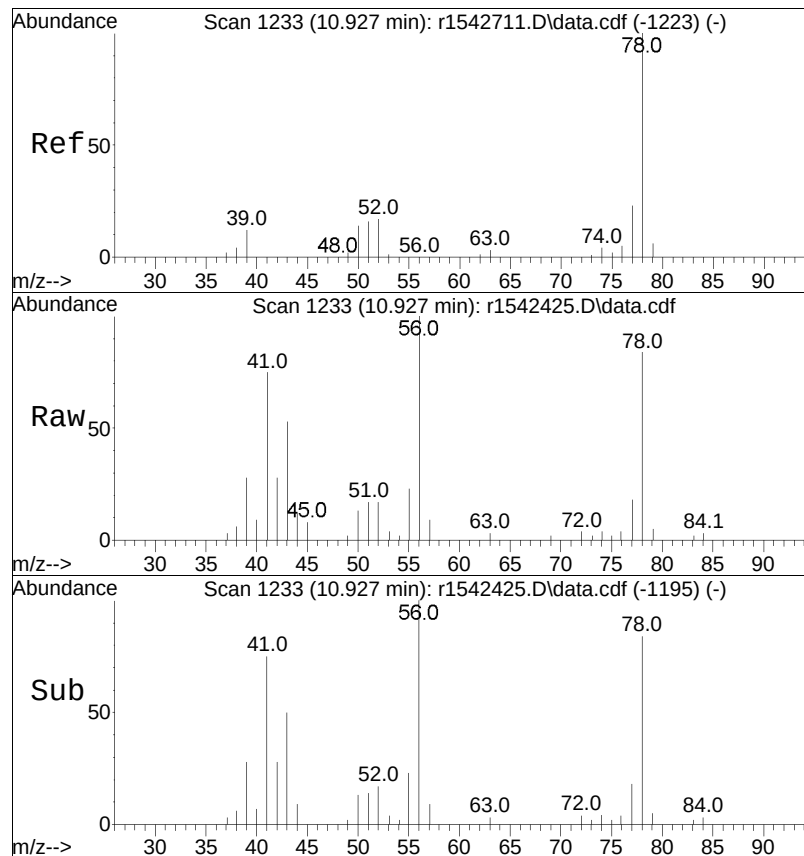




#44
hexane
Concen: 0.61 ppbV
RT: 9.200 min Scan# 1018
Delta R.T. 0.058 min
Lab File: r1542425.D
Acq: 31 Jan 2024 10:15 PM

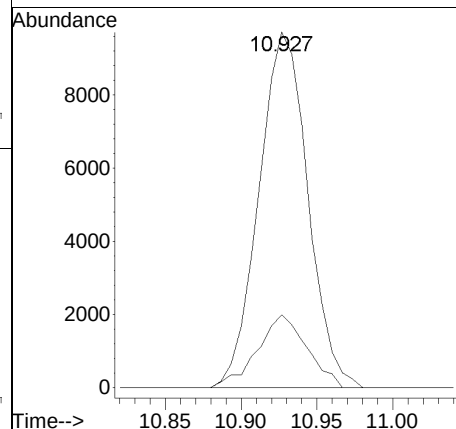
Tgt Ion	Ratio	Lower	Upper
57	100		
43	129.3	146.8	220.2#
86	13.4	12.7	19.1

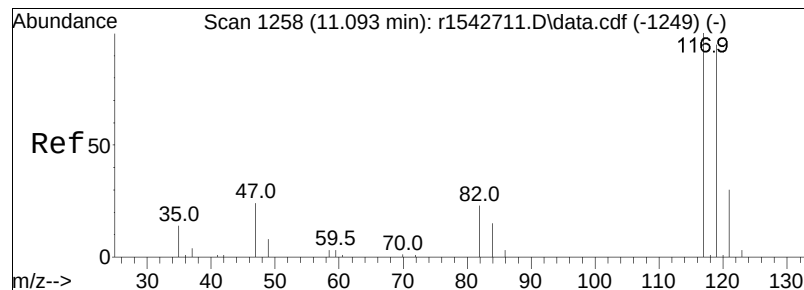




#50
benzene
Concen: 0.29 ppbV
RT: 10.927 min Scan# 1233
Delta R.T. 0.053 min
Lab File: r1542425.D
Acq: 31 Jan 2024 10:15 PM

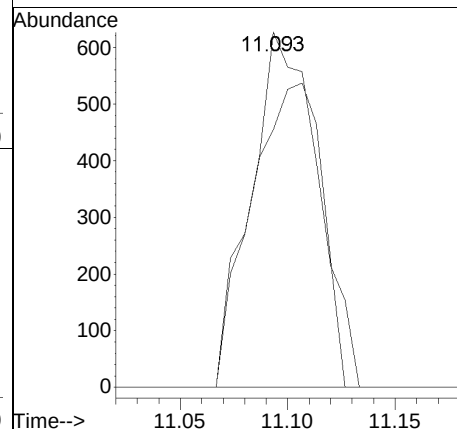
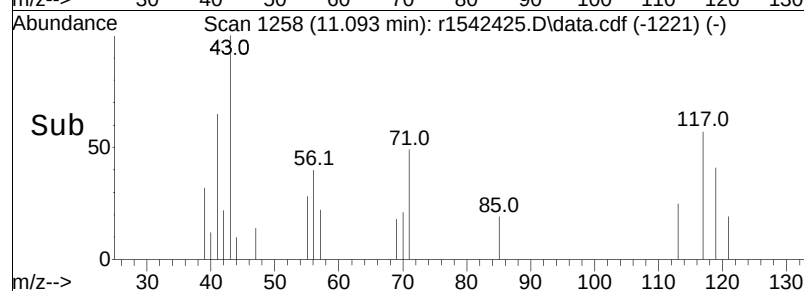
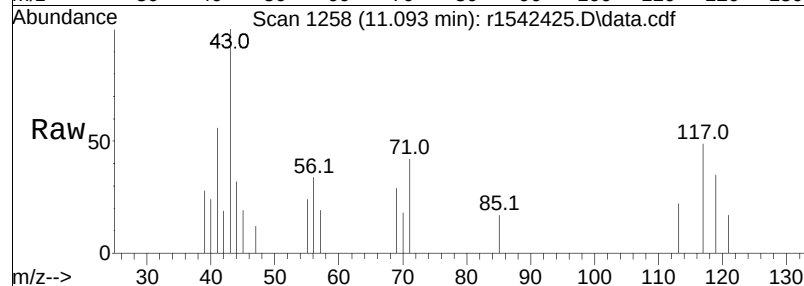
Tgt Ion	Ratio	Lower	Upper
78	100		
52	20.4	14.1	21.1

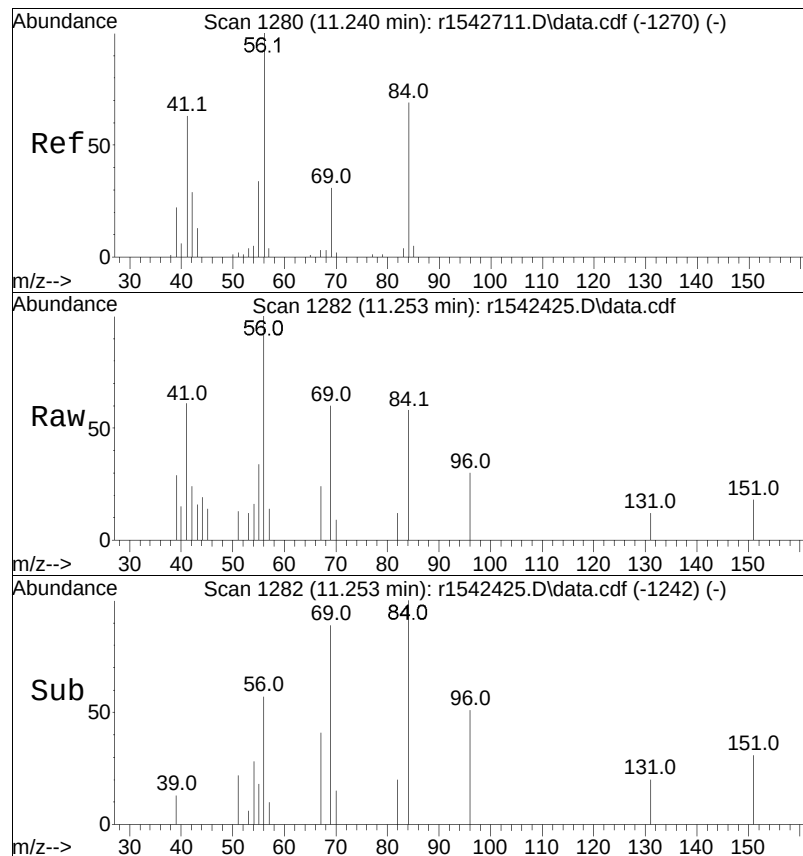




#52
carbon tetrachloride
Concen: 0.05 ppbV
RT: 11.093 min Scan# 1258
Delta R.T. 0.047 min
Lab File: r1542425.D
Acq: 31 Jan 2024 10:15 PM

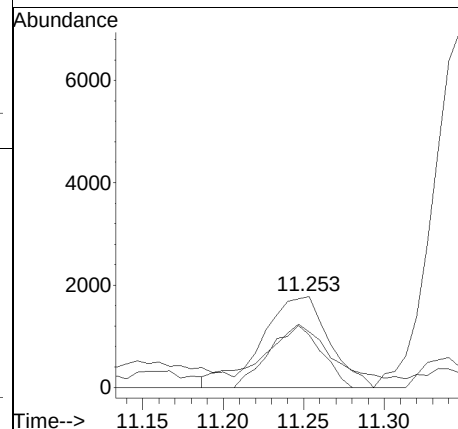
Tgt Ion	Ratio	Lower	Upper
117	100		
119	72.6	77.1	115.7#
82	0.0	17.2	25.8#

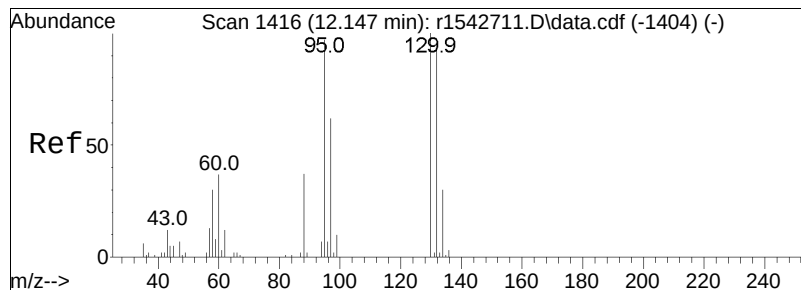




#53
cyclohexane
Concen: 0.11 ppbV
RT: 11.253 min Scan# 1282
Delta R.T. 0.067 min
Lab File: r1542425.D
Acq: 31 Jan 2024 10:15 PM

Tgt Ion	Ratio	Lower	Upper
56	100		
84	57.7	60.2	90.2#
41	61.1	33.5	50.3#





#59

trichloroethene

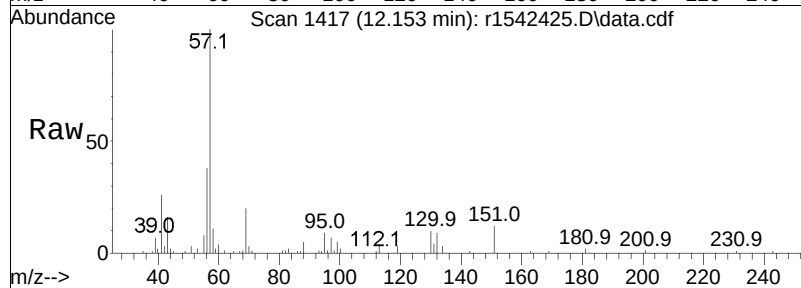
Concen: 0.18 ppbV

RT: 12.153 min Scan# 1417

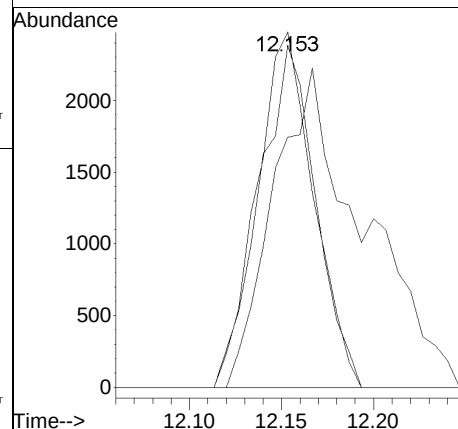
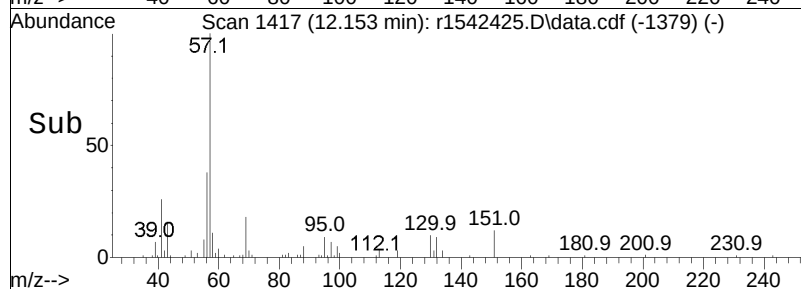
Delta R.T. 0.053 min

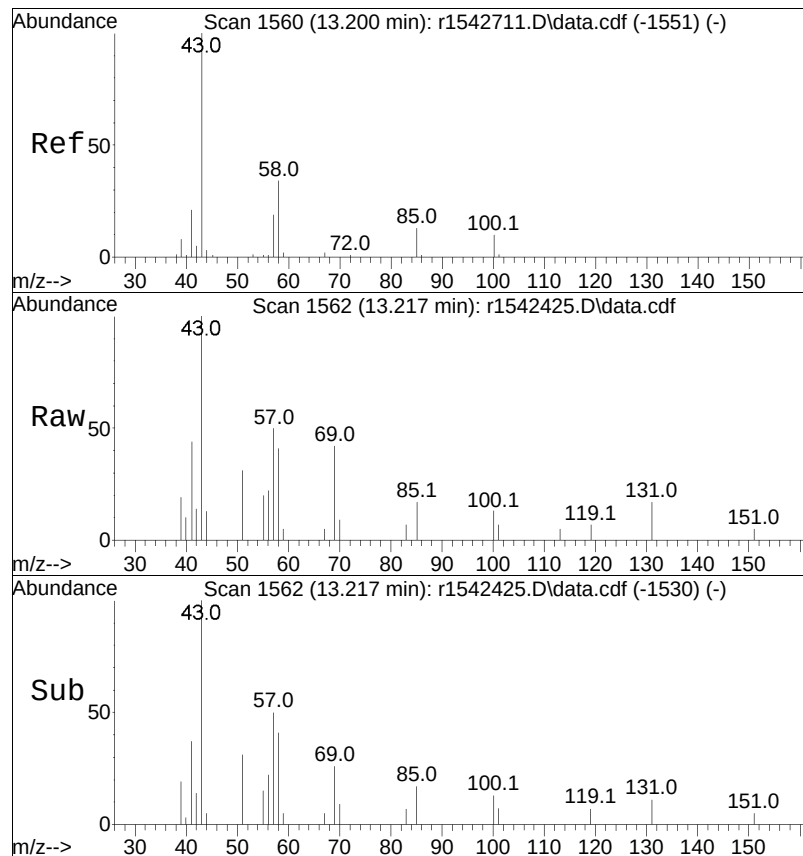
Lab File: r1542425.D

Acq: 31 Jan 2024 10:15 PM



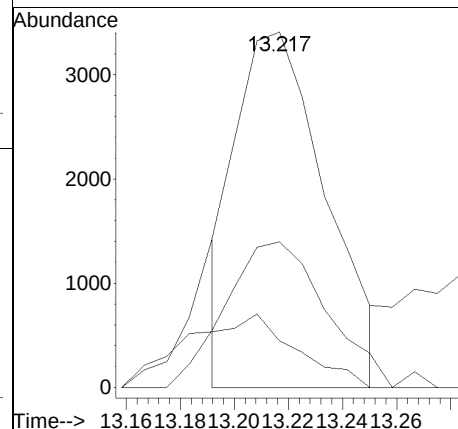
Tgt	Ion:130	Resp:	5329
Ion	Ratio	Lower	Upper
130	100		
132	96.2	74.7	112.1
97	70.4	46.6	70.0#

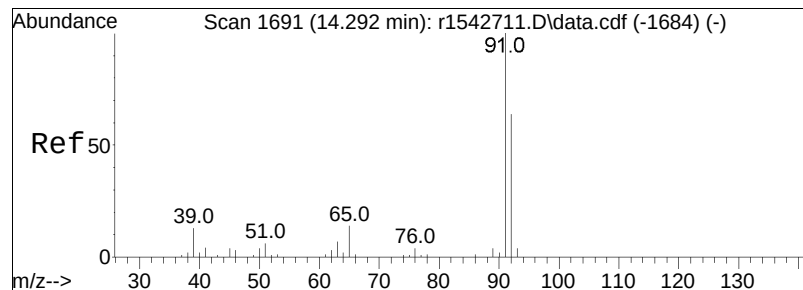




#64
 4-methyl-2-pentanone
 Concen: 0.15 ppbV m
 RT: 13.217 min Scan# 1562
 Delta R.T. 0.067 min
 Lab File: r1542425.D
 Acq: 31 Jan 2024 10:15 PM

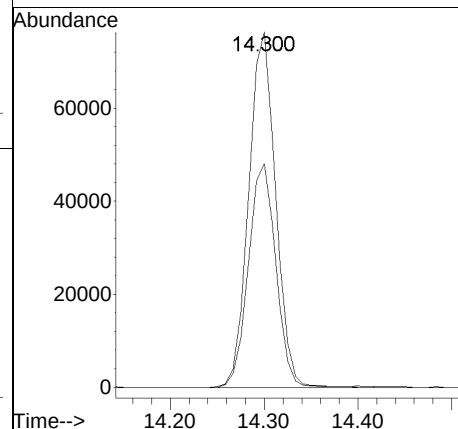
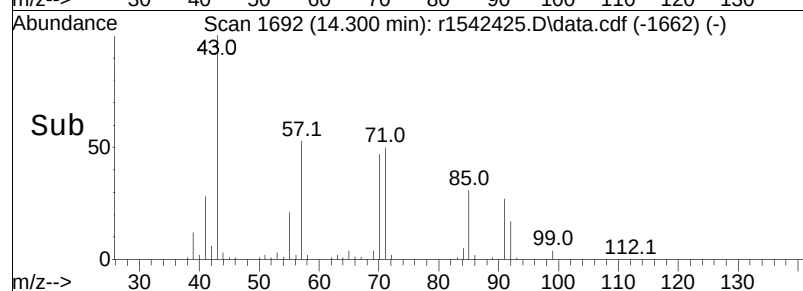
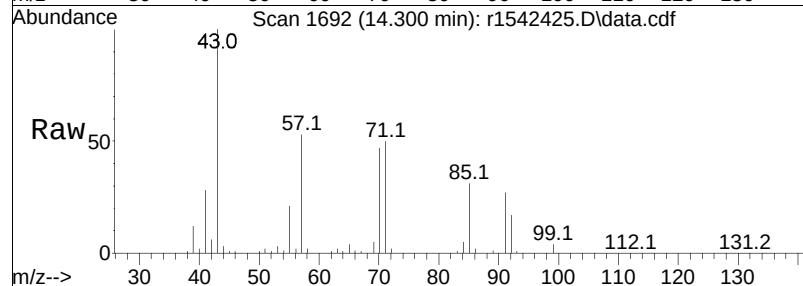
Tgt	Ion	Ratio	Lower	Upper
43	100			
58	41.0	39.5	59.3	
100	13.1	11.8	17.6	

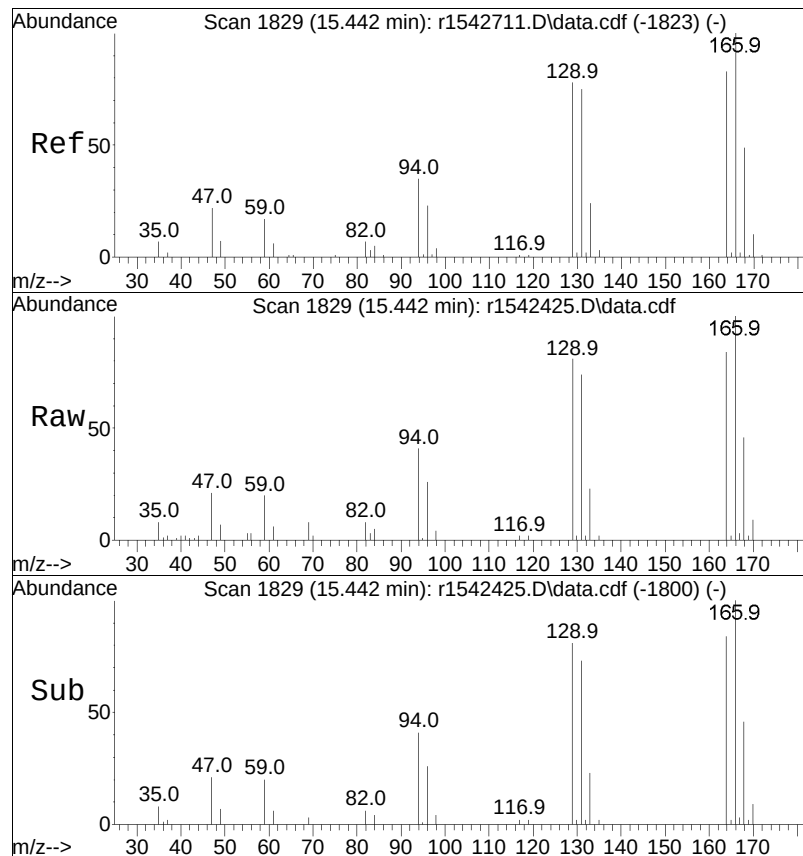




#68
toluene
Concen: 1.22 ppbV
RT: 14.300 min Scan# 1692
Delta R.T. 0.050 min
Lab File: r1542425.D
Acq: 31 Jan 2024 10:15 PM

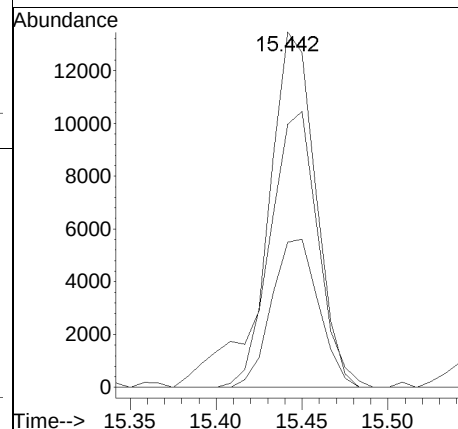
Tgt Ion	Ratio	Lower	Upper
91	100		
92	63.0	51.0	76.4

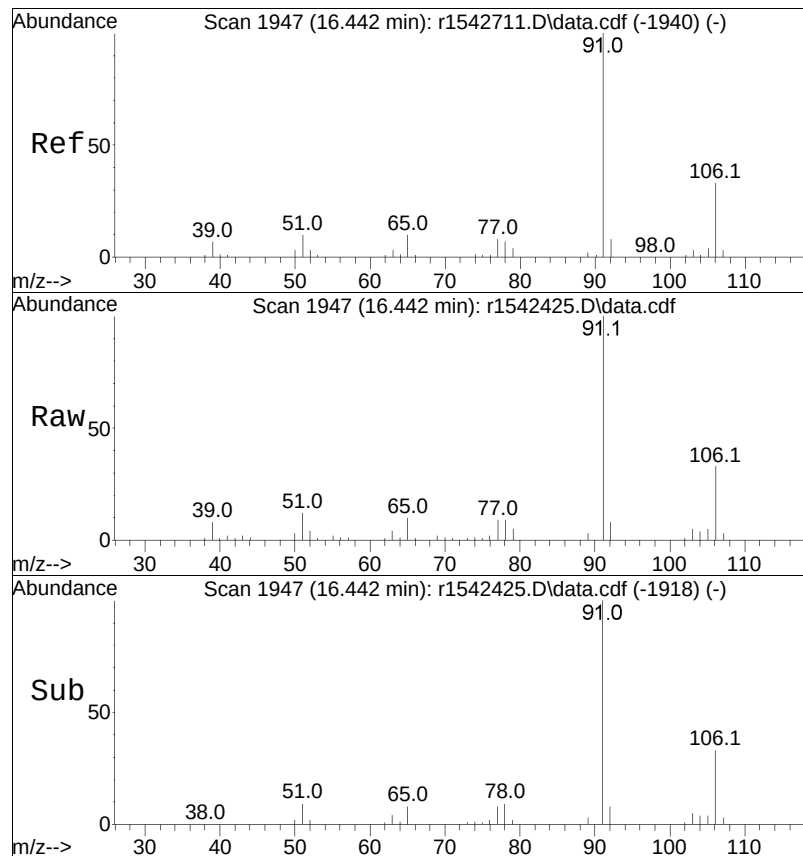




#78
 tetrachloroethene
 Concen: 0.49 ppbV
 RT: 15.442 min Scan# 1829
 Delta R.T. 0.042 min
 Lab File: r1542425.D
 Acq: 31 Jan 2024 10:15 PM

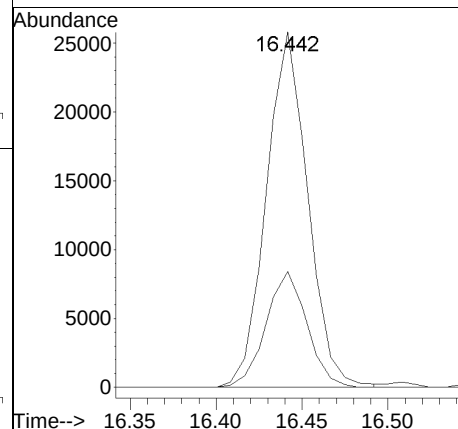
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	24509		
131	74.1		55.6	83.4
94	40.9		25.4	38.2#

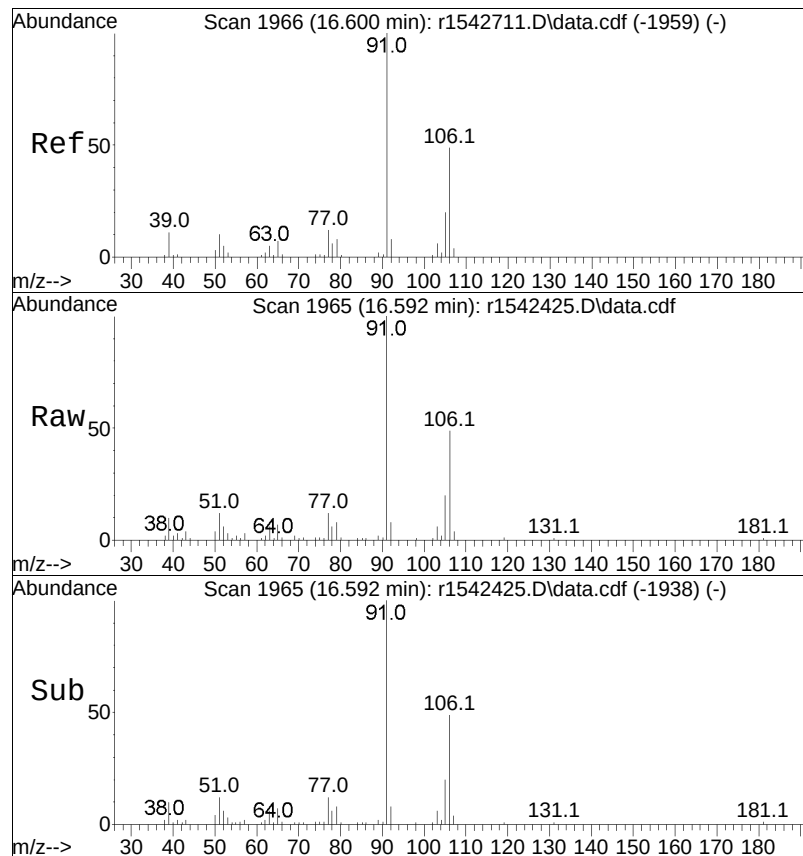




#81
ethylbenzene
Concen: 0.27 ppbV
RT: 16.442 min Scan# 1947
Delta R.T. 0.042 min
Lab File: r1542425.D
Acq: 31 Jan 2024 10:15 PM

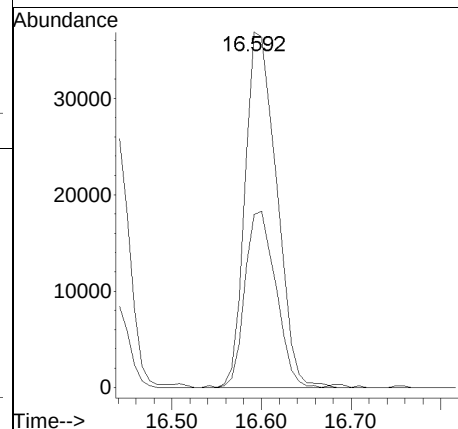
Tgt	Ion	Resp	Lower	Upper
91	100	43243		
106	32.6	27.7	41.5	

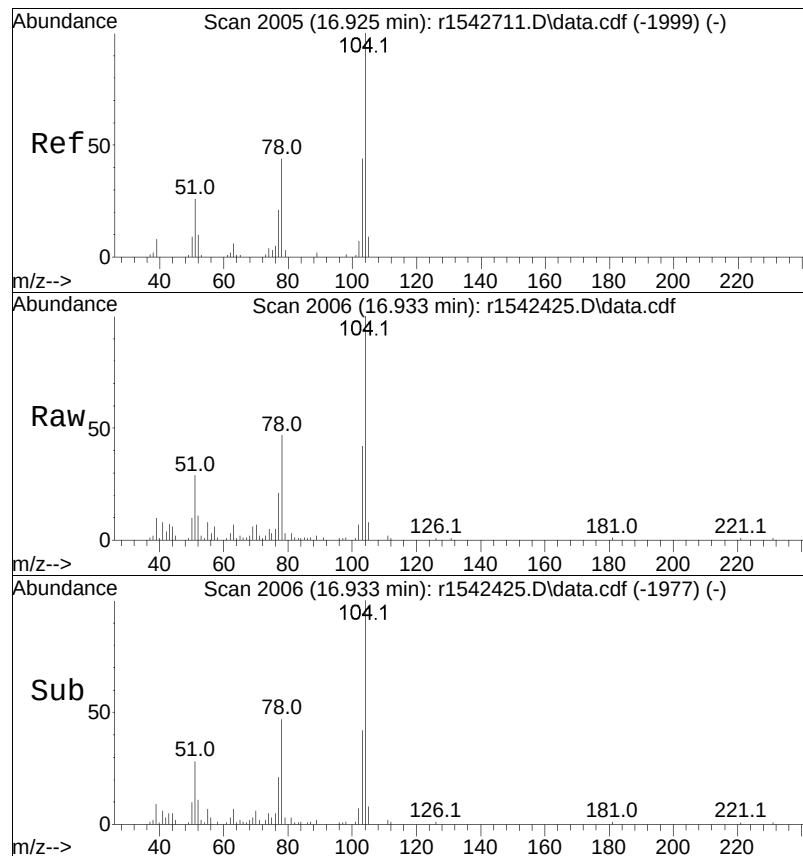




#83
 m+p-xylene
 Concen: 0.71 ppbV
 RT: 16.592 min Scan# 1965
 Delta R.T. 0.025 min
 Lab File: r1542425.D
 Acq: 31 Jan 2024 10:15 PM

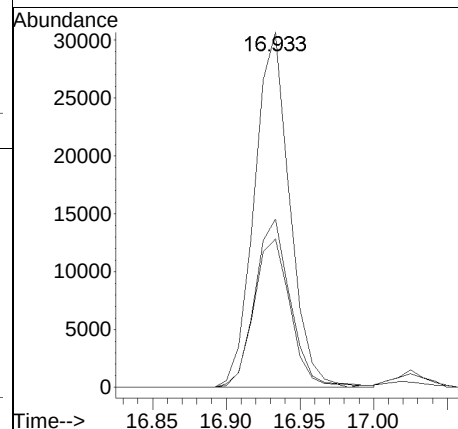
Tgt Ion	Ratio	Lower	Upper
91	100		
106	48.6	42.7	64.1

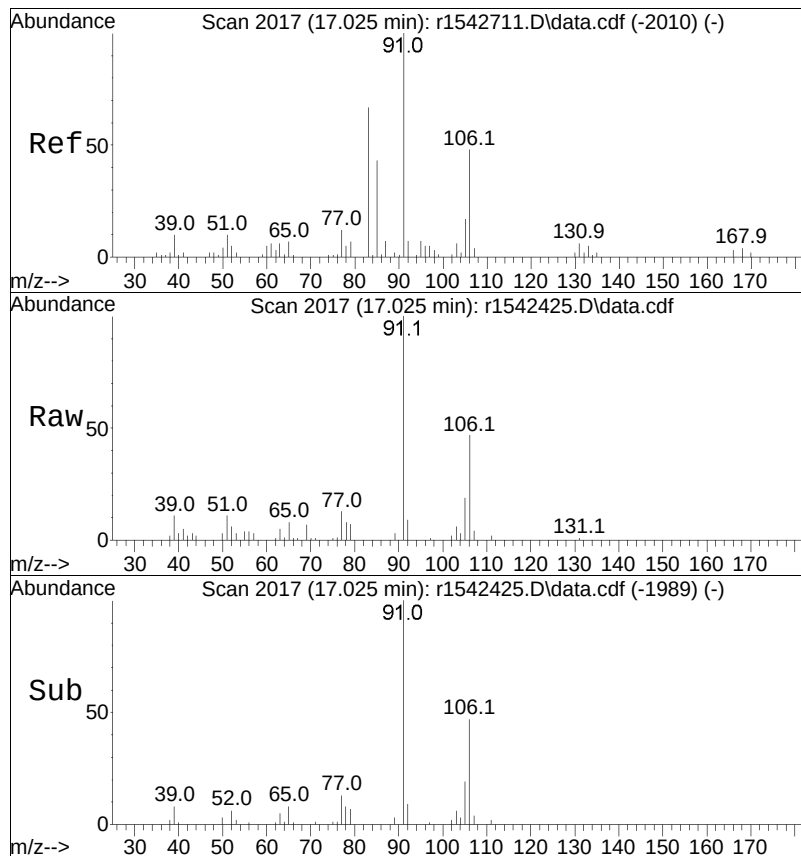




#85
styrene
Concen: 0.50 ppbV
RT: 16.933 min Scan# 2006
Delta R.T. 0.042 min
Lab File: r1542425.D
Acq: 31 Jan 2024 10:15 PM

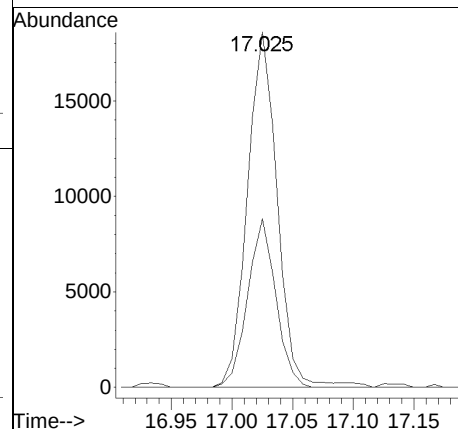
Tgt Ion	Ratio	Lower	Upper
104	100		
103	41.8	34.9	52.3
78	47.4	36.2	54.4

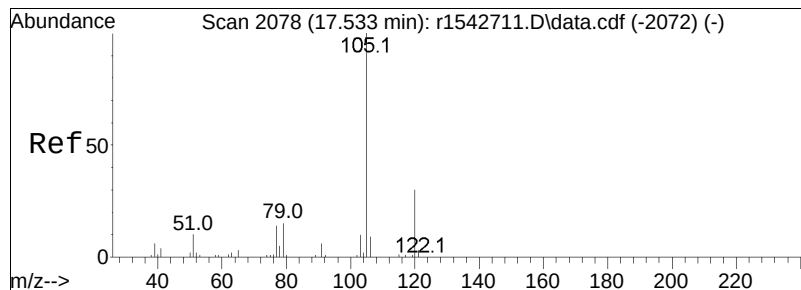




#87
 o-xylene
 Concen: 0.25 ppbV
 RT: 17.025 min Scan# 2017
 Delta R.T. 0.033 min
 Lab File: r1542425.D
 Acq: 31 Jan 2024 10:15 PM

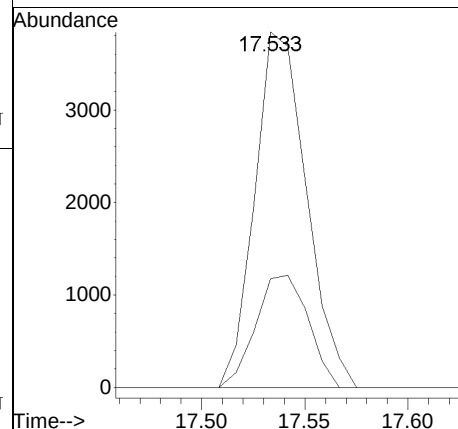
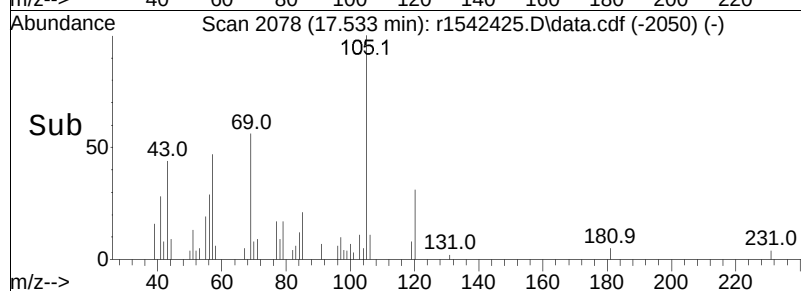
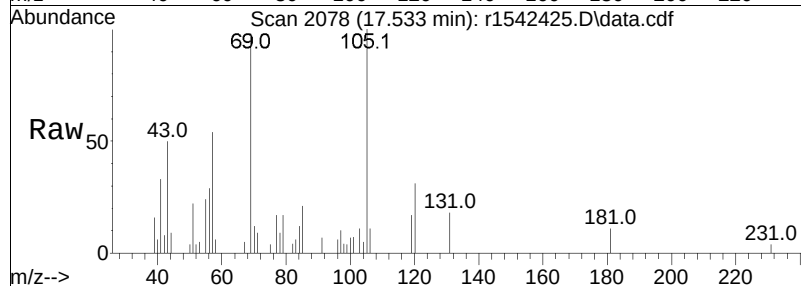
Tgt	Ion	Resp	Lower	Upper
91	100	31875		
106	47.5		40.0	60.0

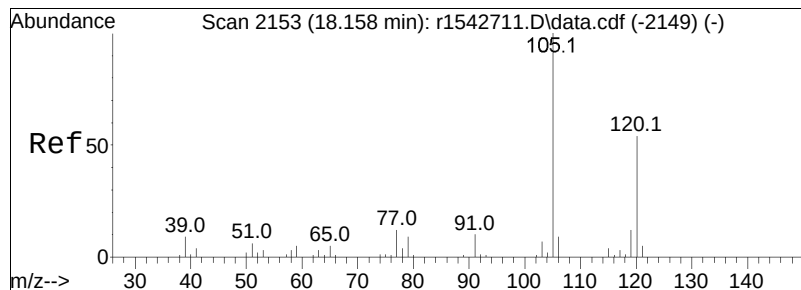




#91
isopropylbenzene
Concen: 0.04 ppbV
RT: 17.533 min Scan# 2078
Delta R.T. 0.033 min
Lab File: r1542425.D
Acq: 31 Jan 2024 10:15 PM

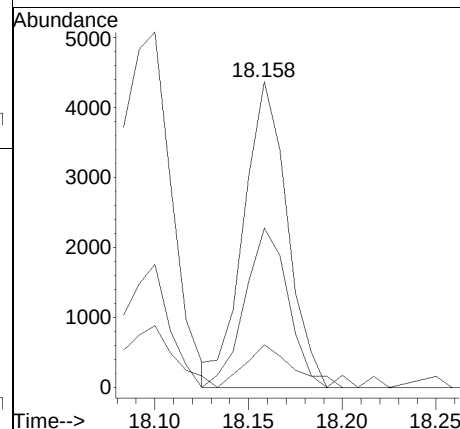
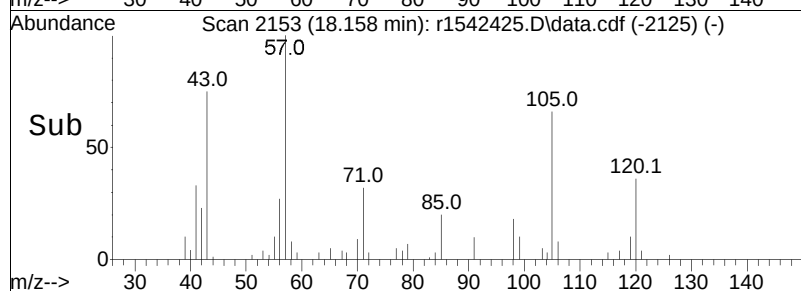
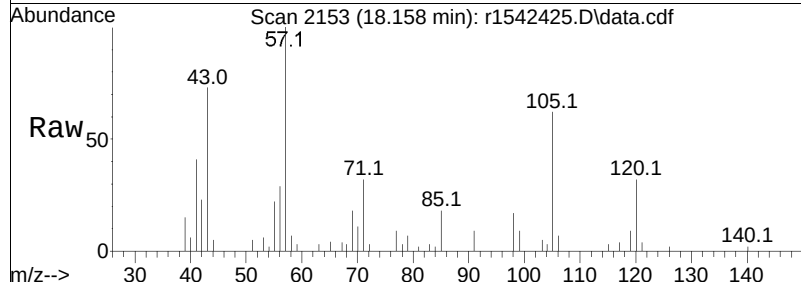
Tgt Ion	Ratio	Lower	Upper
105	100		
120	30.6	26.2	39.4

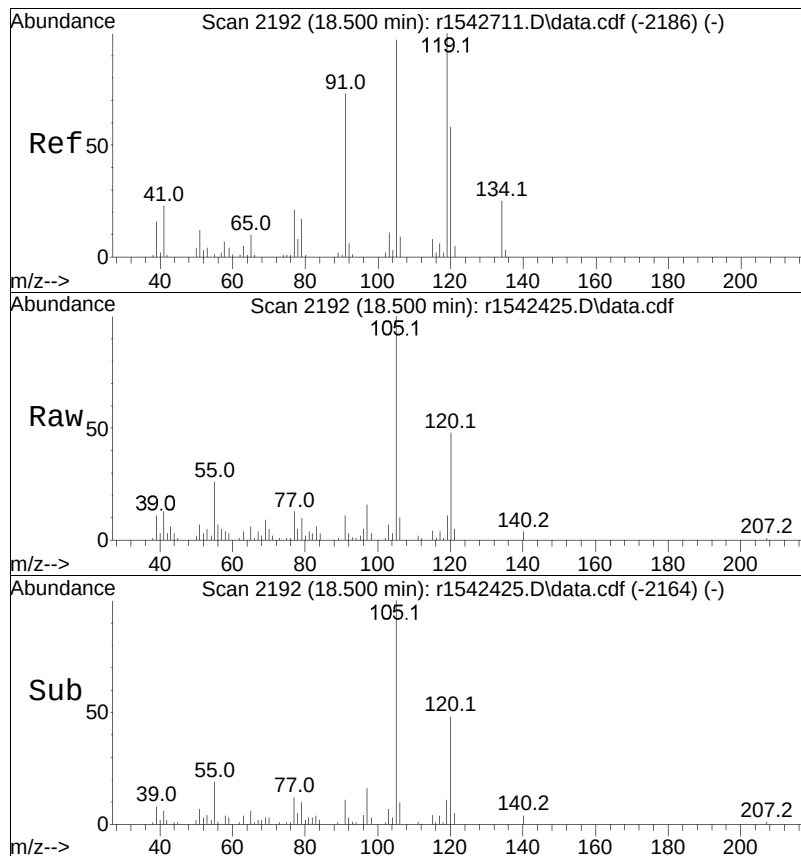




#97
 1,3,5-trimethylbenzene
 Concen: 0.05 ppbV
 RT: 18.158 min Scan# 2153
 Delta R.T. 0.033 min
 Lab File: r1542425.D
 Acq: 31 Jan 2024 10:15 PM

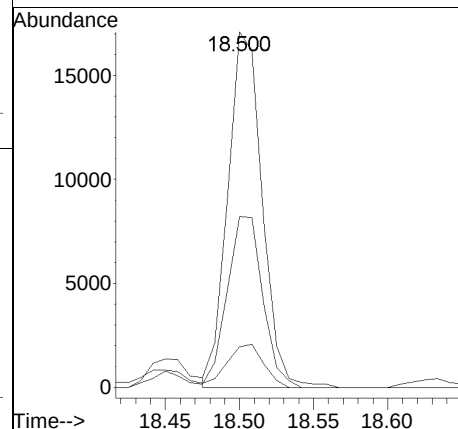
Tgt Ion	Ratio	Lower	Upper
105	100		
120	52.1	46.0	69.0
91	14.0	7.5	11.3

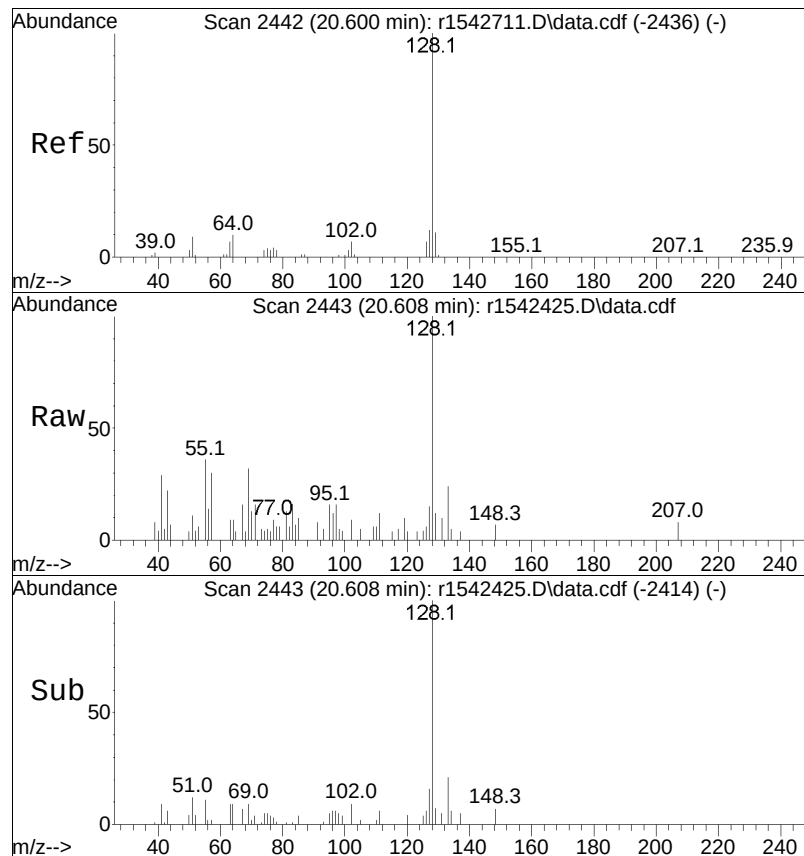




#99
 1,2,4-trimethylbenzene
 Concen: 0.19 ppbV m
 RT: 18.500 min Scan# 2192
 Delta R.T. 0.033 min
 Lab File: r1542425.D
 Acq: 31 Jan 2024 10:15 PM

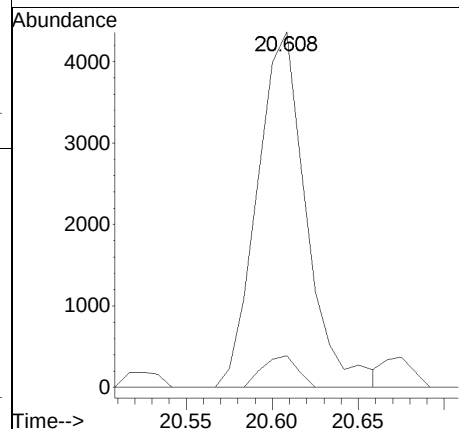
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	27500		
120	48.1		51.8	77.6#
91	11.4		58.3	87.5#





#116
 naphthalene
 Concen: 0.05 ppbV
 RT: 20.608 min Scan# 2443
 Delta R.T. 0.042 min
 Lab File: r1542425.D
 Acq: 31 Jan 2024 10:15 PM

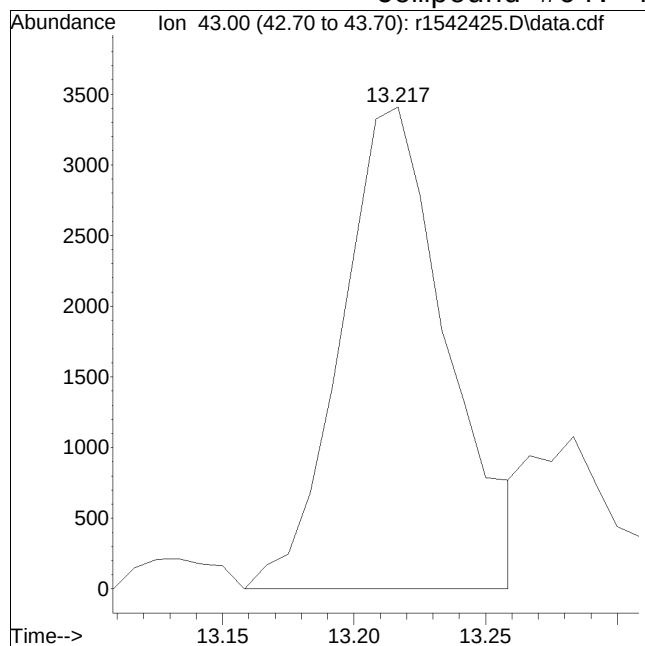
Tgt Ion	Ratio	Resp	Lower	Upper
128	100	8660		
102	8.9		5.4	8.2#



Manual Integration Report

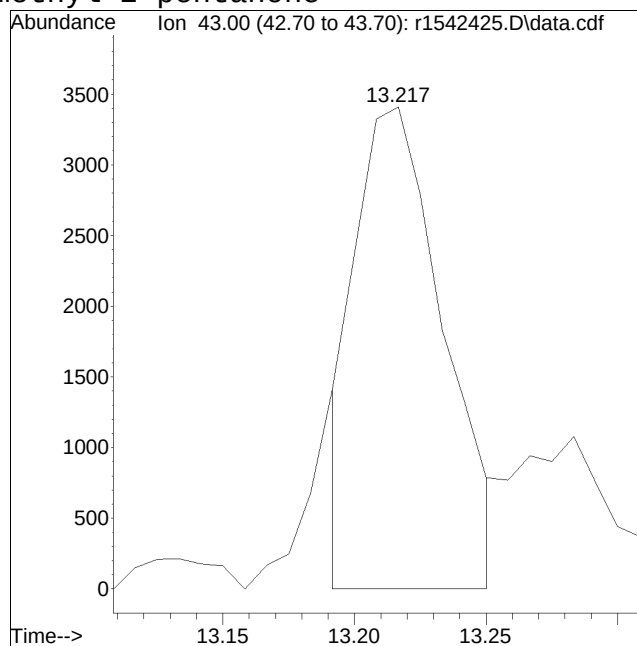
Data Path : 0:\Forensics\Data\Airlab150Method : TFS15_231120.M
Data File : r1542425.D Operator : AIRLAB15:JMB
Date Inj'd : 1/31/2020 0:0: 5 Instrument :
Sample : L2403288-05,3,250,250 Quant Date : 2/1/2024 6:50 am

Compound #64: 4-methyl-2-pentanone



Original Peak Response = 9569

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

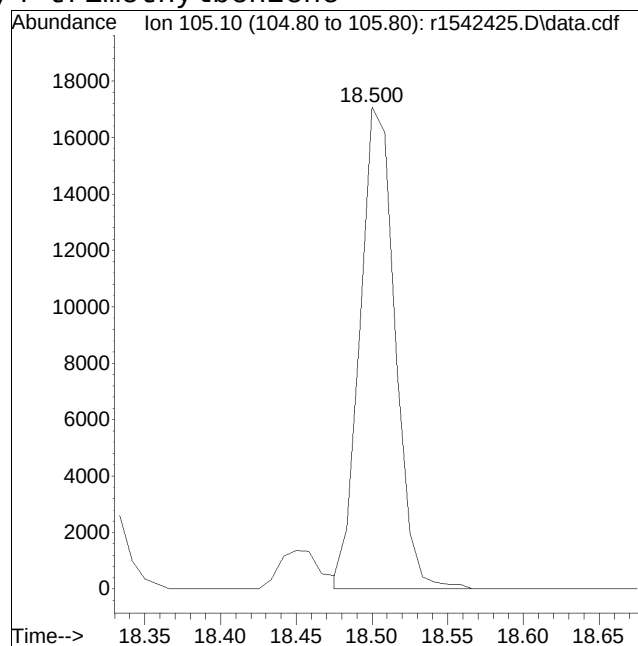
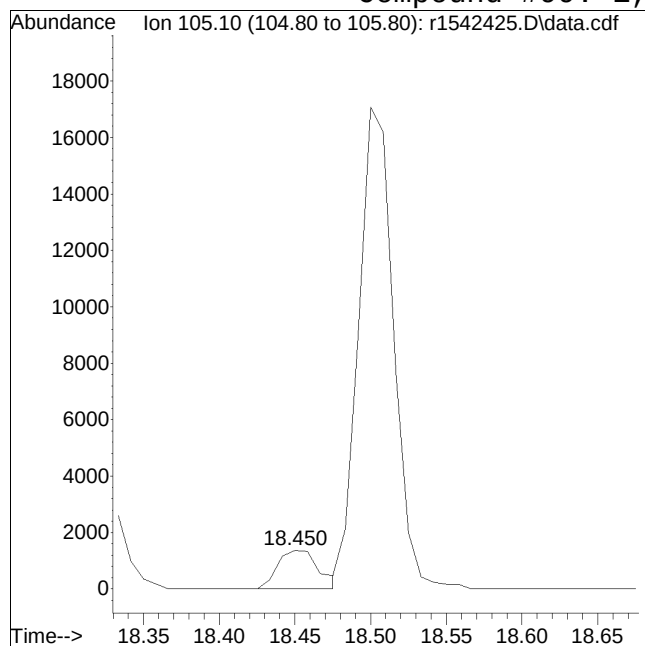


Manual Peak Response = 7924 M6

Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1542425.D Operator : AIRLAB15:JMB
Date Inj'd : 1/31/2020 0:0: 5 Instrument :
Sample : L2403288-05,3,250,250 Quant Date : 2/1/2024 6:50 am

Compound #99: 1,2,4-trimethylbenzene



Original Peak Response = 2604

Manual Peak Response = 27500 M3

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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542427.D
 Acq On : 31 Jan 2024 11:32 PM
 Operator : AIRLAB15:JMB
 Sample : L2403288-07,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 06:53:02 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131T\r1542413.D
 Sub List : PADEP-T015 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.133	49	354691	10.000	ppbV	0.06
Standard Area = 375210			Recovery =		94.53%	
43) 1,4-difluorobenzene	11.347	114	923392	10.000	ppbV #	0.05
Standard Area = 971110			Recovery =		95.09%	
67) chlorobenzene-D5	16.050	54	169962	10.000	ppbV	0.04
Standard Area = 187857			Recovery =		90.47%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	4.024	85	20223	0.501	ppbV	94
6) chloromethane	4.192	50	5463	0.360	ppbV	90
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	4.570	54	459	0.031	ppbV #	75
13) bromomethane	4.858		0	N.D.		
14) chloroethane	0.000		0	N.D.	d	
17) vinyl bromide	5.407		0	N.D.		
18) acrolein	5.553	56	1595	0.194	ppbV #	49
19) acetone	5.690	43	1826054	91.211	ppbV #	85
21) trichlorofluoromethane	5.887	101	9270	0.307	ppbV	99
22) isopropyl alcohol	5.973	45	2456815	97.399	ppbV	97
23) acrylonitrile	6.213	53	12008	0.668	ppbV	97
26) 1,1-dichloroethene	0.000		0	N.D.	d	
28) methylene chloride	6.726	49	14823	0.542	ppbV	96
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	7.038	76	39354	0.613	ppbV #	35
31) Freon 113	7.020	101	2837	0.072	ppbV	91
32) trans-1,2-dichloroethene	7.783		0	N.D.		
33) 1,1-dichloroethane	8.025		0	N.D.		
34) MTBE	0.000		0	N.D.	d	
37) cis-1,2-dichloroethene	0.000		0	N.D.		
39) chloroform	9.283	83	8643	0.199	ppbV #	89
40) Tetrahydrofuran	9.733	42	47485	1.612	ppbV #	85
42) 1,2-dichloroethane	0.000		0	N.D.	d	
44) hexane	9.192	57	54710	1.355	ppbV #	51
48) 1,1,1-trichloroethane	0.000		0	N.D.		
50) benzene	10.927	78	44897	0.601	ppbV	97
52) carbon tetrachloride	11.100	117	2158	0.078	ppbV #	85

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542427.D
 Acq On : 31 Jan 2024 11:32 PM
 Operator : AIRLAB15:JMB
 Sample : L2403288-07,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 06:53:02 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131T\r1542413.D
 Sub List : PADEP-T015 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) cyclohexane	11.240	56	10429M4	0.237	ppbV	
56) 1,2-dichloropropane	11.880		0	N.D.		
57) bromodichloromethane	0.000		0	N.D.	d	
58) 1,4-dioxane	0.000		0	N.D.	d	
59) trichloroethene	12.153	130	39141	1.327	ppbV	94
61) methyl methacrylate	0.000		0	N.D.	d	
64) 4-methyl-2-pentanone	13.208	43	29115M6	0.578	ppbV	
66) 1,1,2-trichloroethane	0.000		0	N.D.	d	
68) toluene	14.300	91	365426	3.750	ppbV	98
71) 1,3-dichloropropane	14.300		0	N.D.		
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
78) tetrachloroethene	15.450	166	2490937	63.687	ppbV #	81
80) chlorobenzene	16.033		0	N.D.		
81) ethylbenzene	16.442	91	126083	1.010	ppbV	95
83) m+p-xylene	16.600	91	246037	2.499	ppbV	93
84) bromoform	0.000		0	N.D.		
85) styrene	16.933	104	163983	2.055	ppbV	99
86) 1,1,2,2-tetrachloroethane	16.942		0	N.D.		
87) o-xylene	17.025	91	90195	0.919	ppbV	95
91) isopropylbenzene	17.542	105	21563	0.173	ppbV	98
97) 1,3,5-trimethylbenzene	18.158	105	22547	0.184	ppbV #	90
99) 1,2,4-trimethylbenzene	18.500	105	85525M3	0.776	ppbV	
101) Benzyl Chloride	18.625		0	N.D.		
103) 1,4-dichlorobenzene	18.633	146	2766	0.036	ppbV #	1
107) 1,2-dichlorobenzene	18.983		0	N.D.		
115) 1,2,4-trichlorobenzene	20.483		0	N.D.		
116) naphthalene	20.600	128	46589	0.312	ppbV	99

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

Sub List : PADEP-T015 - .ata\Airlab15\2024\01\0131T\r1542413.D

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\

Data File : r1542427.D

Acq On : 31 Jan 2024 11:32 PM

Operator : AIRLAB15:JMB

Sample : L2403288-07,3,250,250

Misc : WG1880230,ICAL20574

ALS Vial : 0 Sample Multiplier: 1

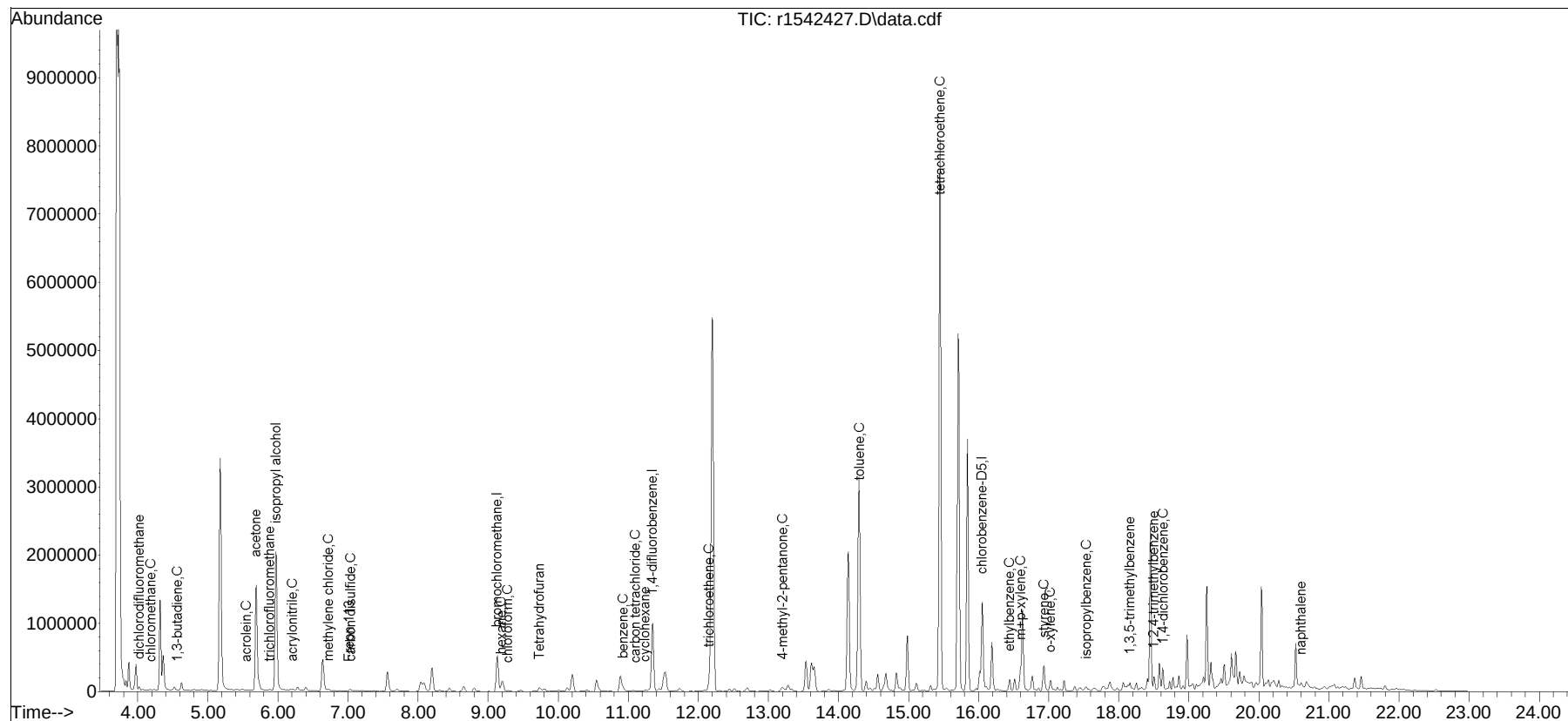
Quant Time: Feb 01 06:53:02 2024

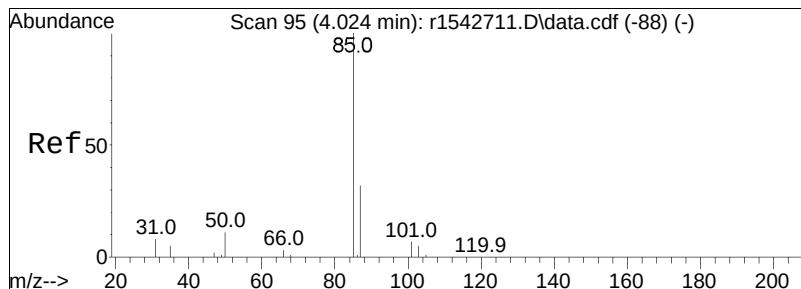
Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

QLast Update : Tue Nov 21 15:43:21 2023

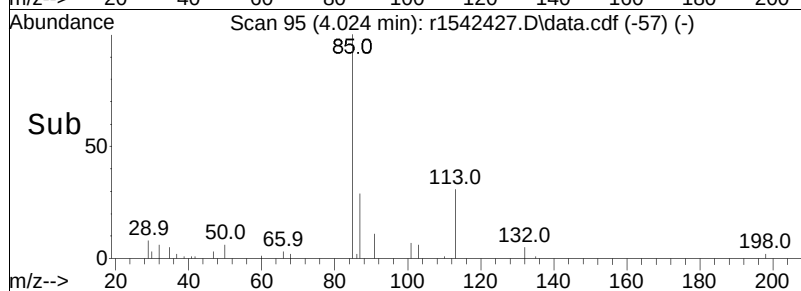
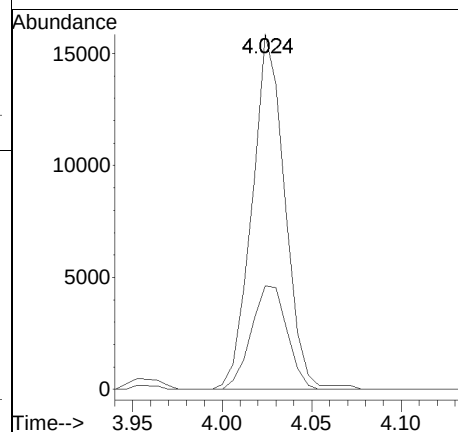
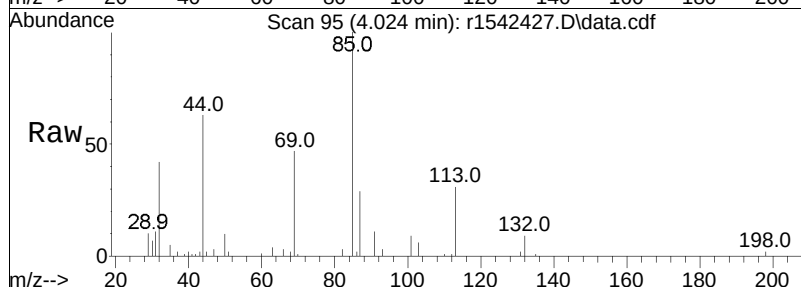
Response via : Initial Calibration

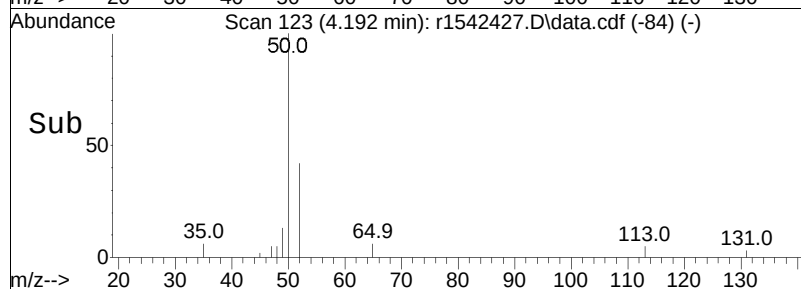
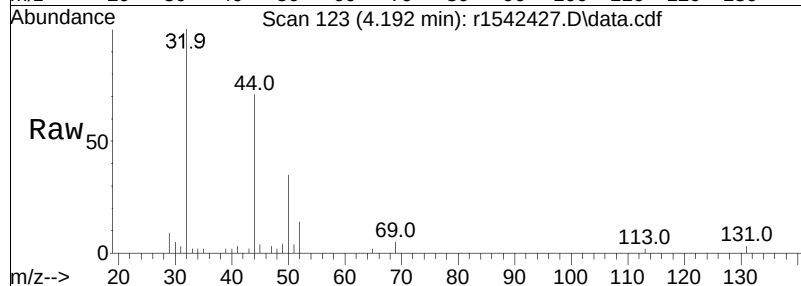
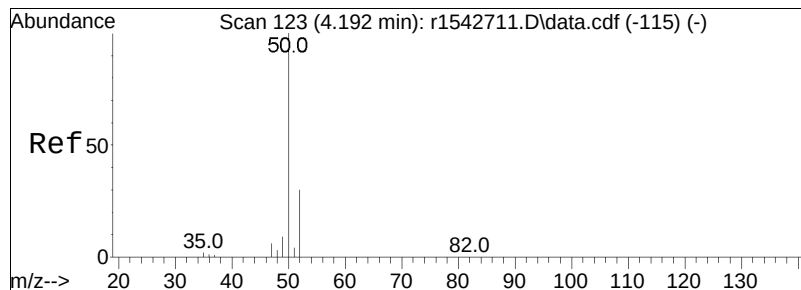




#5
dichlorodifluoromethane
Concen: 0.50 ppbV
RT: 4.024 min Scan# 95
Delta R.T. 0.030 min
Lab File: r1542427.D
Acq: 31 Jan 2024 11:32 PM

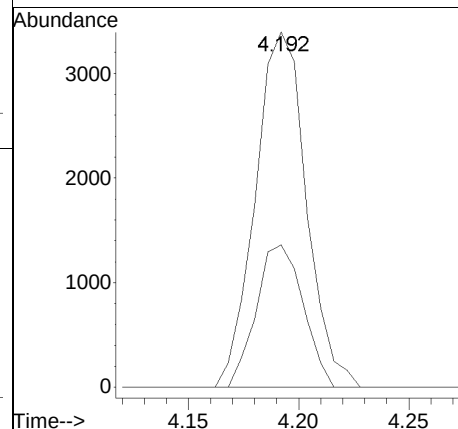
Tgt Ion: 85 Resp: 20223
Ion Ratio Lower Upper
85 100
87 29.1 26.1 39.1

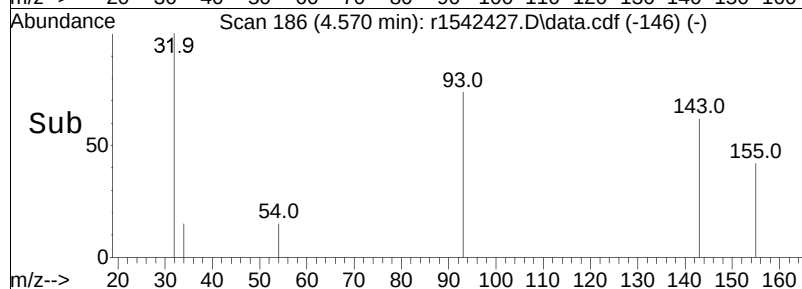
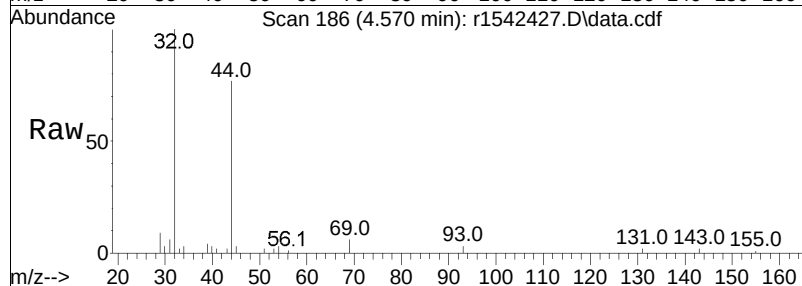
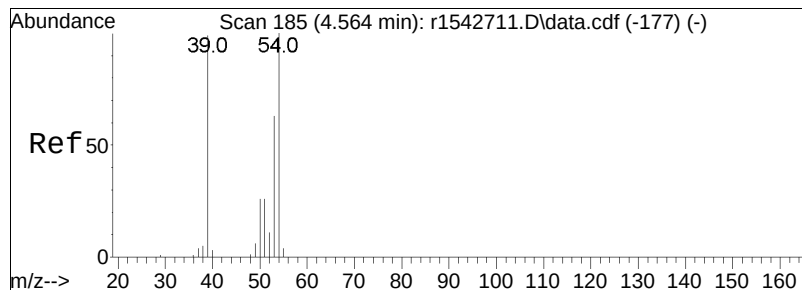




#6
chloromethane
Concen: 0.36 ppbV
RT: 4.192 min Scan# 123
Delta R.T. 0.036 min
Lab File: r1542427.D
Acq: 31 Jan 2024 11:32 PM

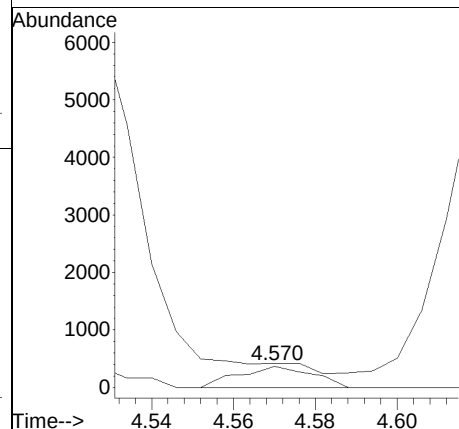
Tgt	Ion	Resp	Lower	Upper
50	100	5463		
52	40.1	27.4	41.2	

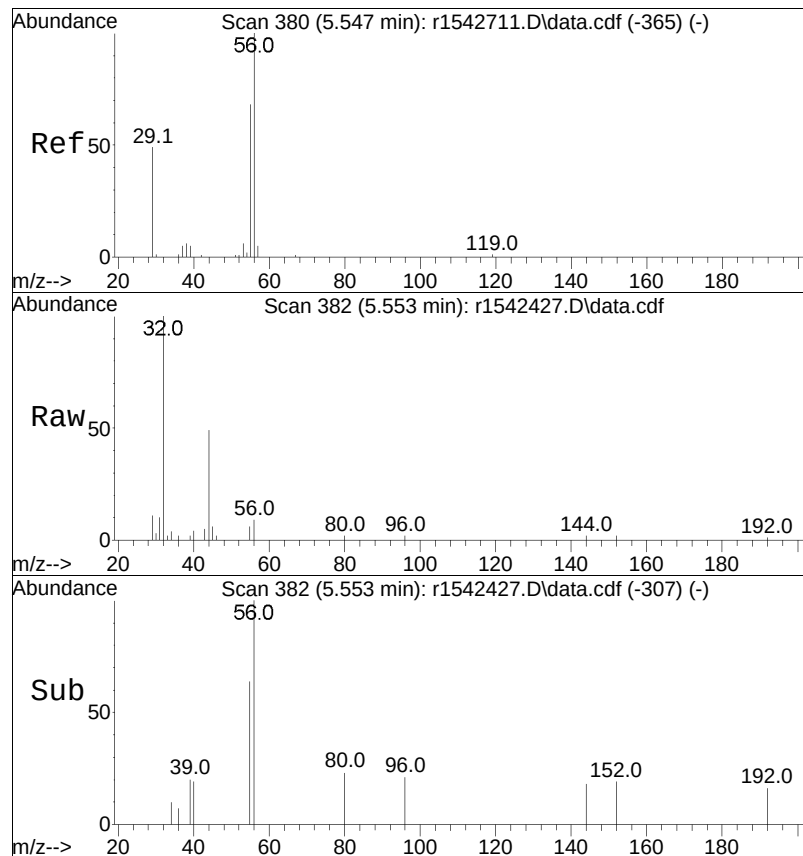




#10
 1,3-butadiene
 Concen: 0.03 ppbV
 RT: 4.570 min Scan# 186
 Delta R.T. 0.042 min
 Lab File: r1542427.D
 Acq: 31 Jan 2024 11:32 PM

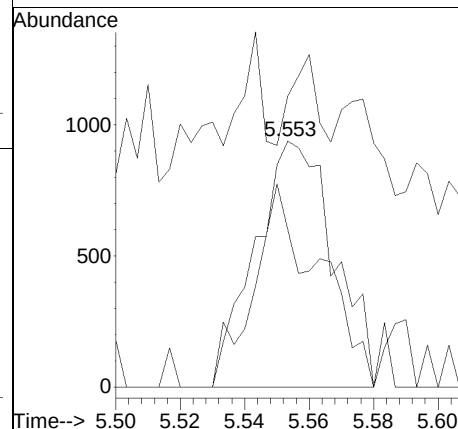
Tgt Ion	Ratio	Lower	Upper
54	100		
39	115.8	73.8	110.8#

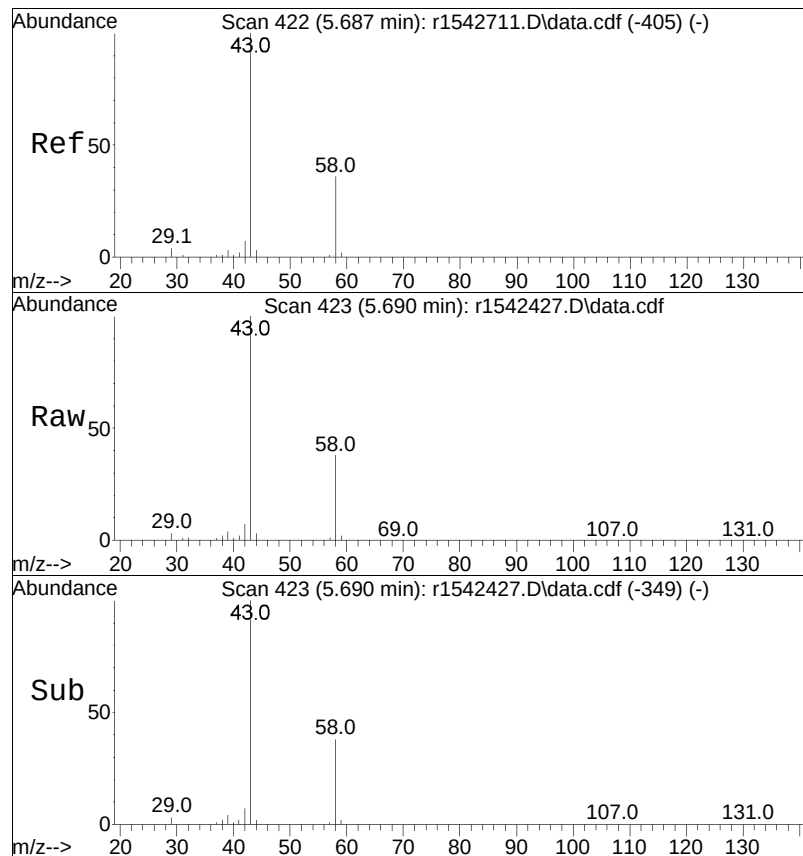




#18
acrolein
Concen: 0.19 ppbV
RT: 5.553 min Scan# 382
Delta R.T. 0.050 min
Lab File: r1542427.D
Acq: 31 Jan 2024 11:32 PM

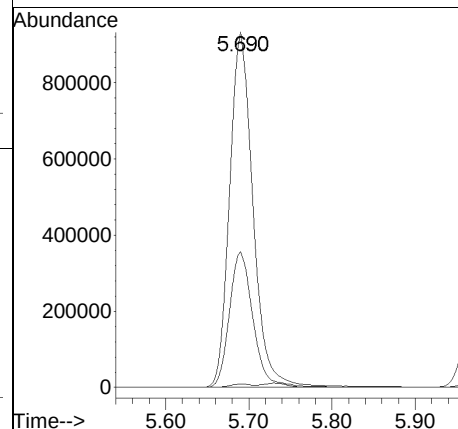
Tgt Ion	Ratio	Lower	Upper
56	100		
55	64.1	52.3	78.5
29	118.3	28.6	43.0#

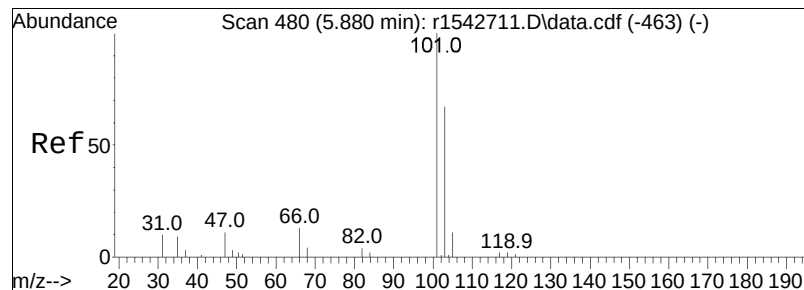




#19
acetone
Concen: 91.21 ppbV
RT: 5.690 min Scan# 423
Delta R.T. 0.047 min
Lab File: r1542427.D
Acq: 31 Jan 2024 11:32 PM

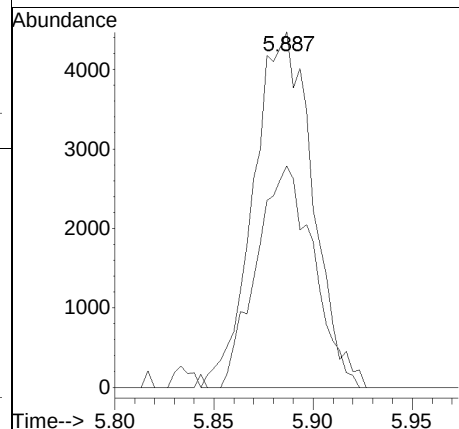
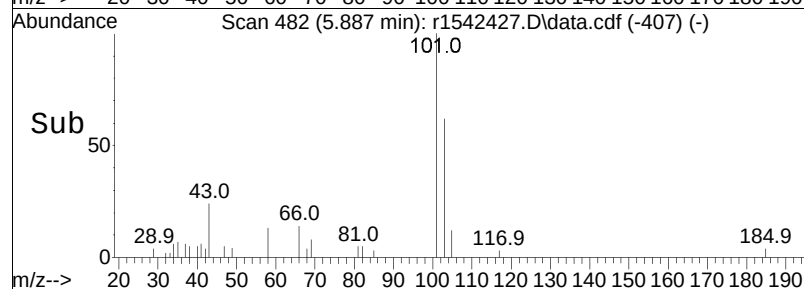
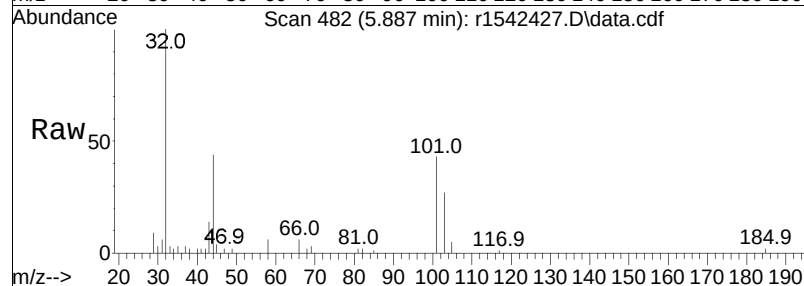
Tgt Ion:	43	Resp:	1826054
Ion	Ratio	Lower	Upper
43	100		
58	38.2	39.0	58.4#
57	0.9	0.9	1.3

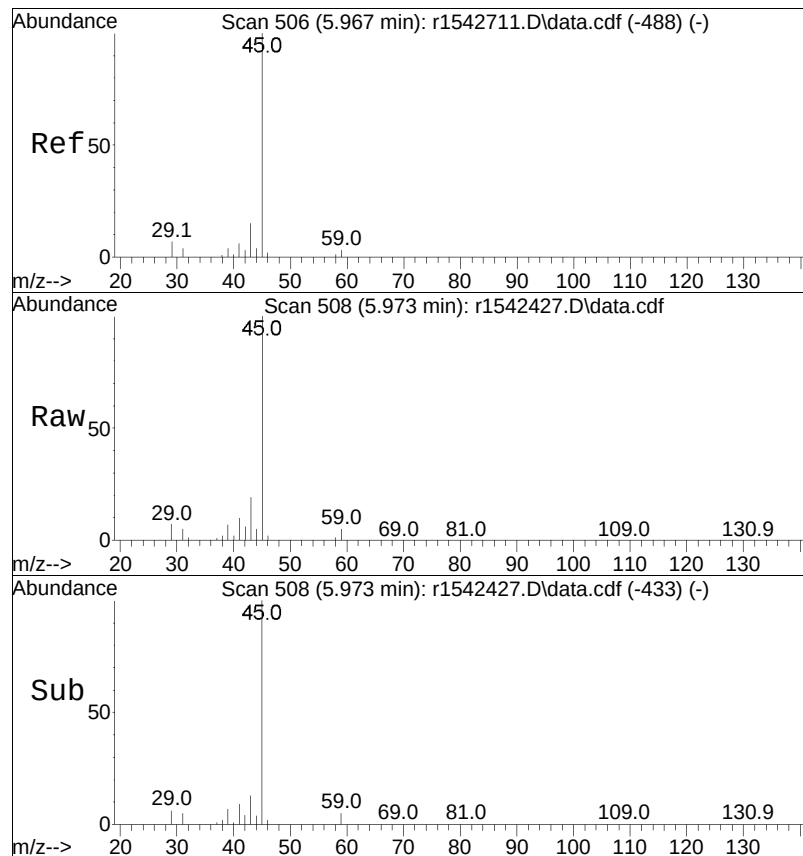




#21
trichlorofluoromethane
Concen: 0.31 ppbV
RT: 5.887 min Scan# 482
Delta R.T. 0.050 min
Lab File: r1542427.D
Acq: 31 Jan 2024 11:32 PM

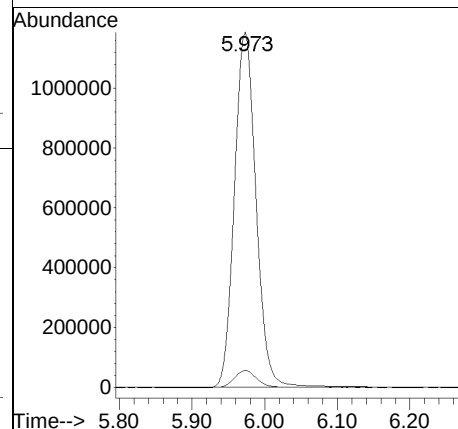
Tgt Ion	Ratio	Lower	Upper
101	100		
103	62.3	49.4	74.0

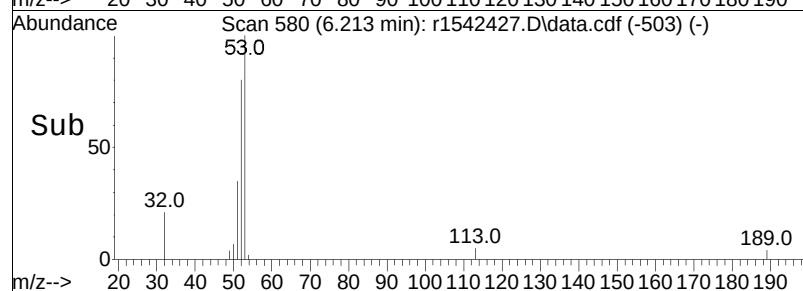
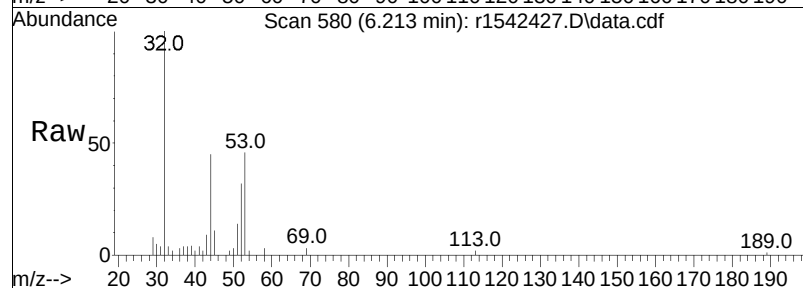
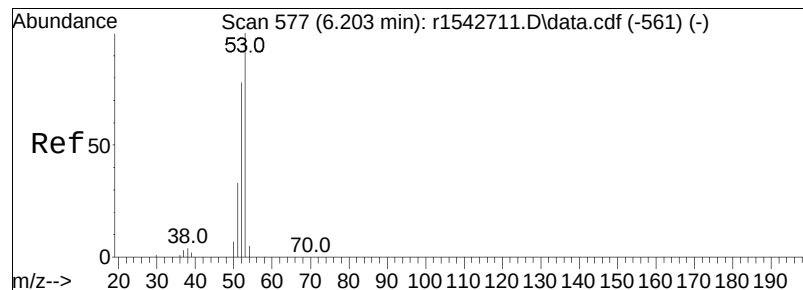




#22
 isopropyl alcohol
 Concen: 97.40 ppbV
 RT: 5.973 min Scan# 508
 Delta R.T. 0.050 min
 Lab File: r1542427.D
 Acq: 31 Jan 2024 11:32 PM

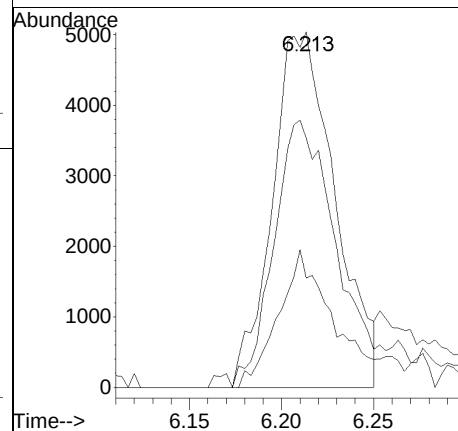
Tgt Ion	Ratio	Lower	Upper
45	100		
59	4.8	4.6	6.8

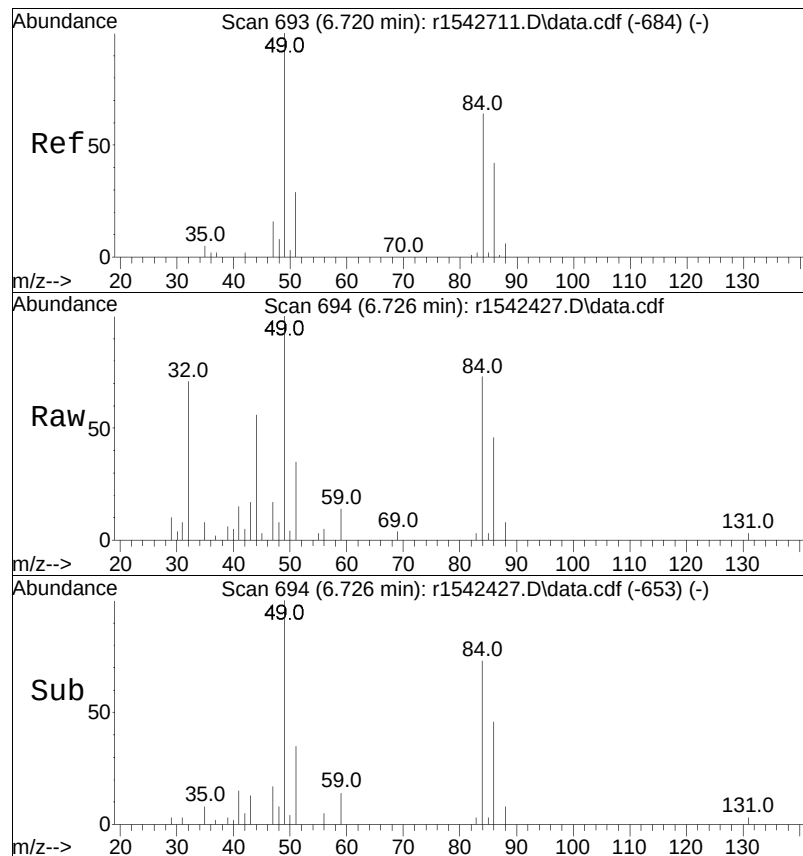




#23
acrylonitrile
Concen: 0.67 ppbV
RT: 6.213 min Scan# 580
Delta R.T. 0.057 min
Lab File: r1542427.D
Acq: 31 Jan 2024 11:32 PM

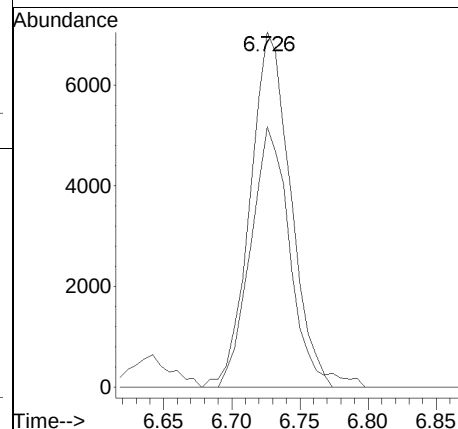
Tgt	Ion	Resp	Lower	Upper
53	100			
52	70.2	59.1	88.7	
51	30.9	24.5	36.7	

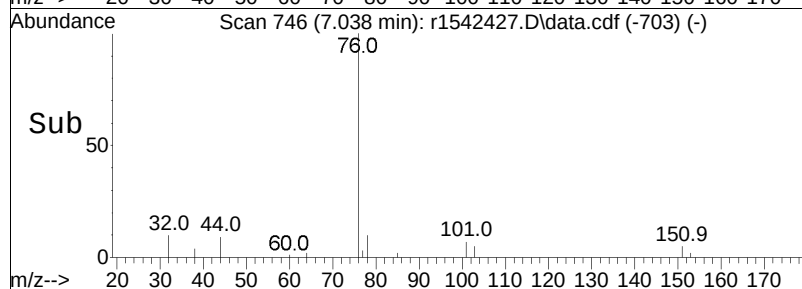
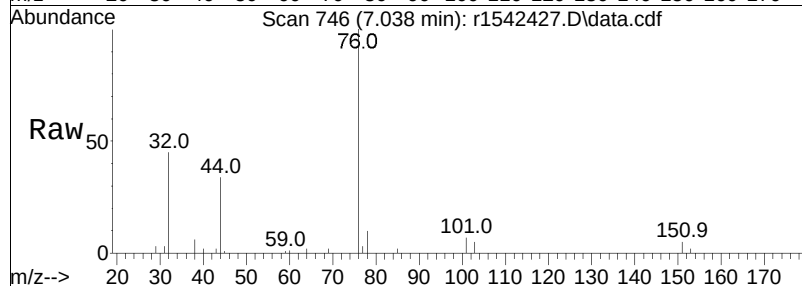
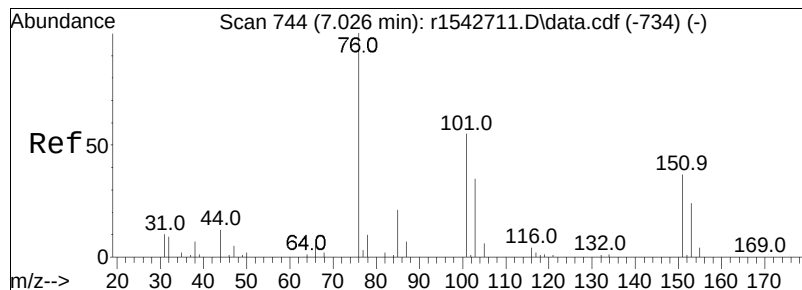




#28
 methylene chloride
 Concen: 0.54 ppbV
 RT: 6.726 min Scan# 694
 Delta R.T. 0.048 min
 Lab File: r1542427.D
 Acq: 31 Jan 2024 11:32 PM

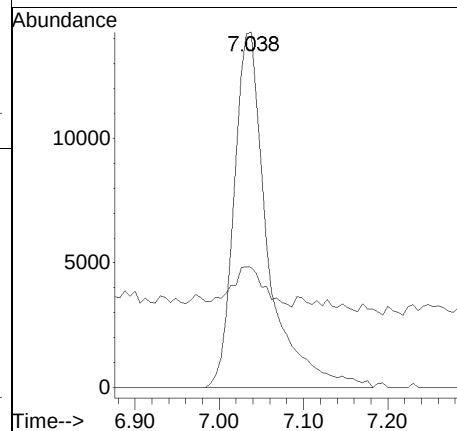
Tgt Ion:	49	84	Ratio	Lower	Upper
Resp:	14823				
Ion Ratio	100	73.3			
			61.2	91.8	

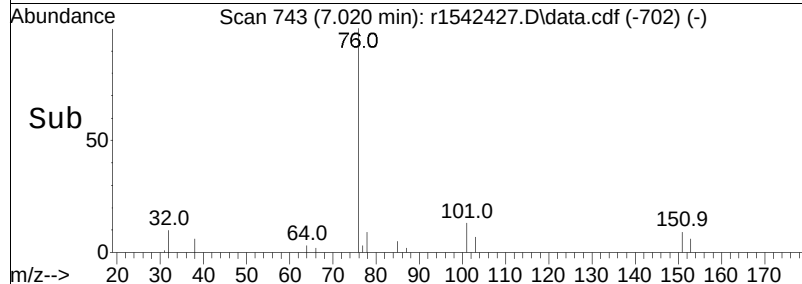
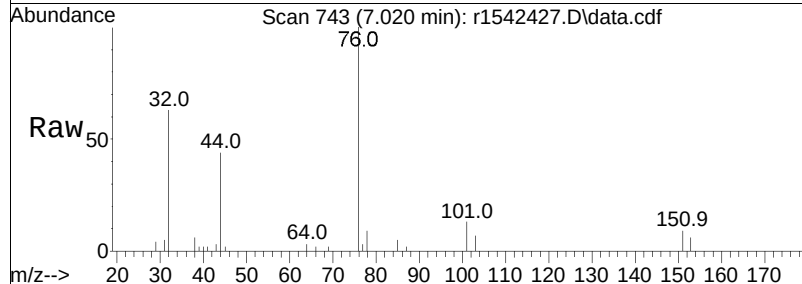
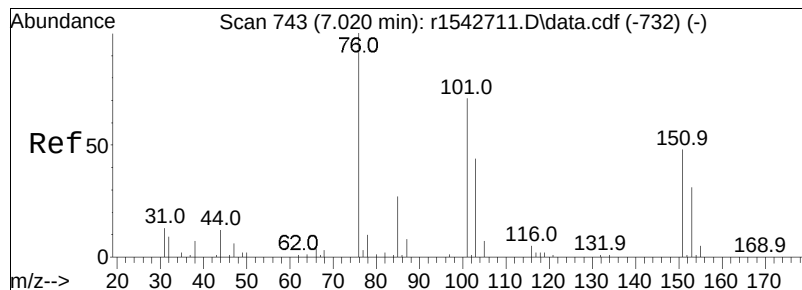




#30
carbon disulfide
Concen: 0.61 ppbV
RT: 7.038 min Scan# 746
Delta R.T. 0.060 min
Lab File: r1542427.D
Acq: 31 Jan 2024 11:32 PM

Tgt Ion	Ratio	Lower	Upper
76	100		
44	33.8	7.8	11.6#





#31

Freon 113

Concen: 0.07 ppbV

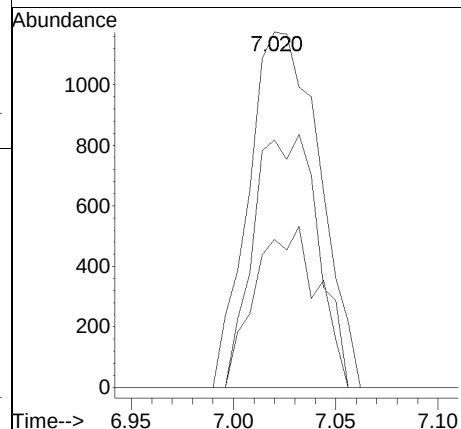
RT: 7.020 min Scan# 743

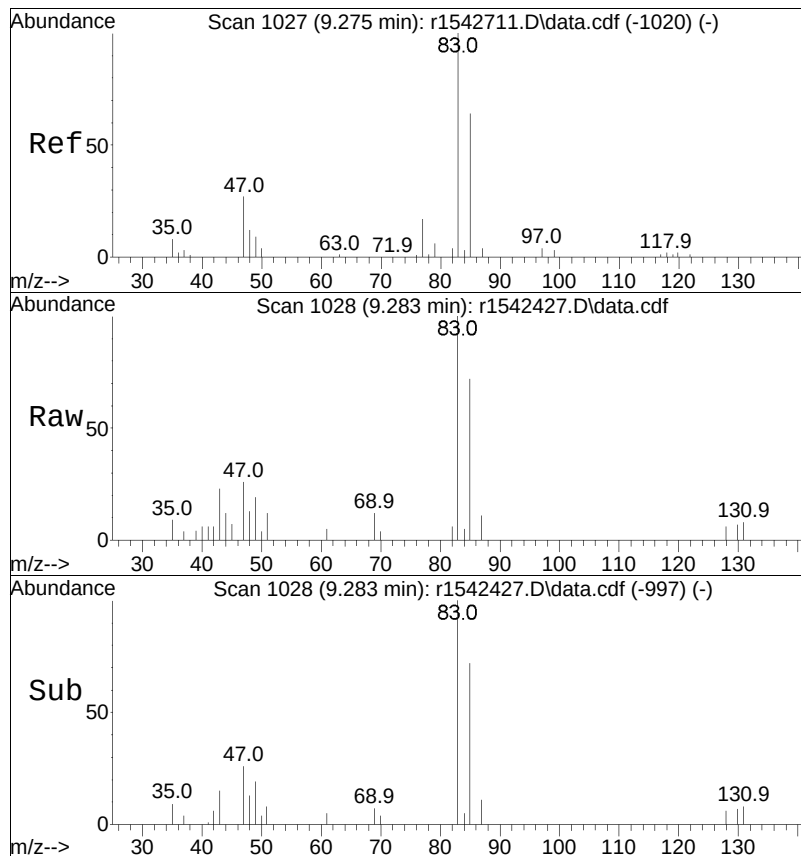
Delta R.T. 0.048 min

Lab File: r1542427.D

Acq: 31 Jan 2024 11:32 PM

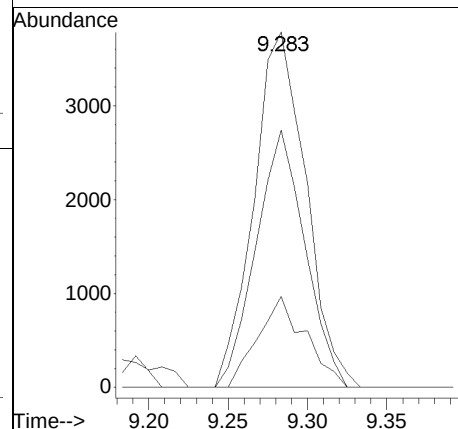
Tgt Ion:	101	Resp:	2837
Ion Ratio	Lower	Upper	
101	100		
85	41.7	35.3	52.9
151	69.6	63.8	95.8

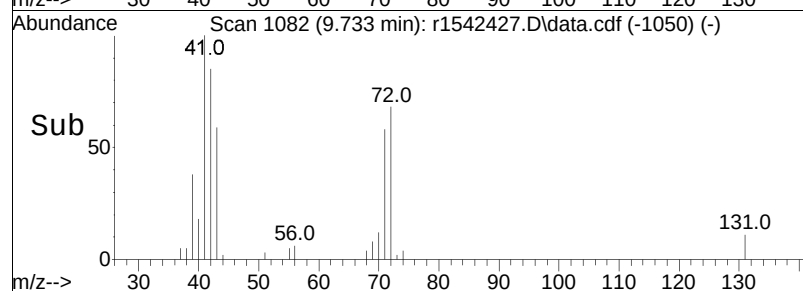
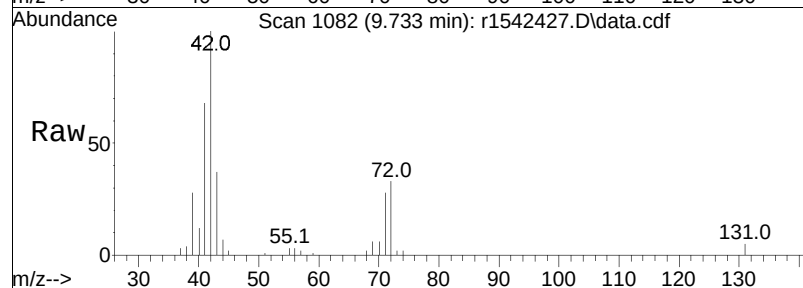
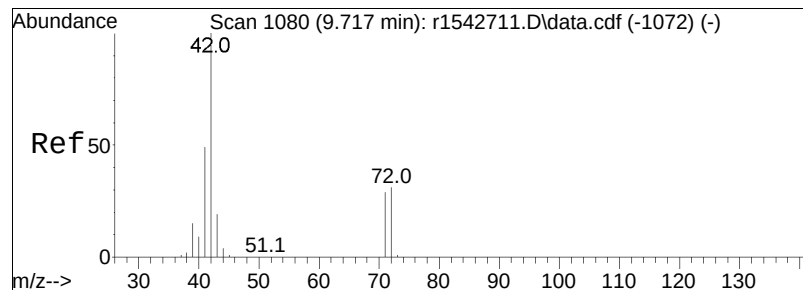




#39
 chloroform
 Concen: 0.20 ppbV
 RT: 9.283 min Scan# 1028
 Delta R.T. 0.058 min
 Lab File: r1542427.D
 Acq: 31 Jan 2024 11:32 PM

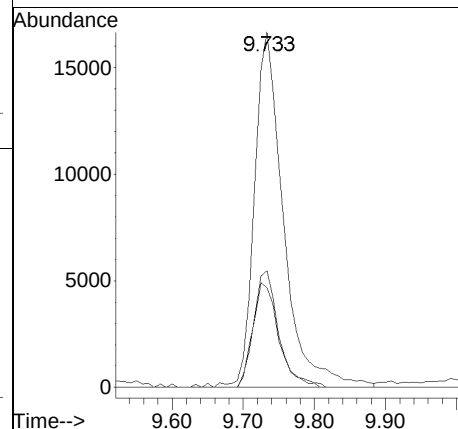
Tgt	Ion	Ratio	Resp	Lower	Upper
83	100		8643		
85	72.4	51.5	77.3		
47	25.6	15.9	23.9		

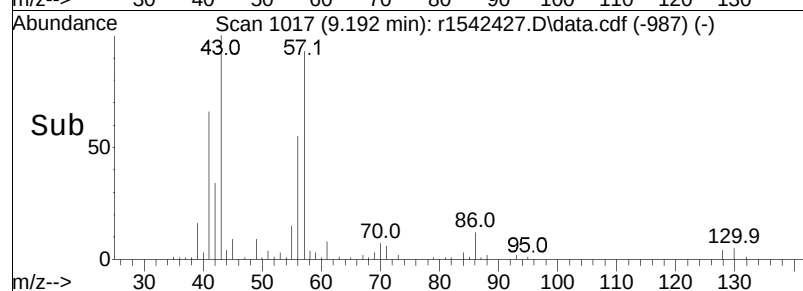
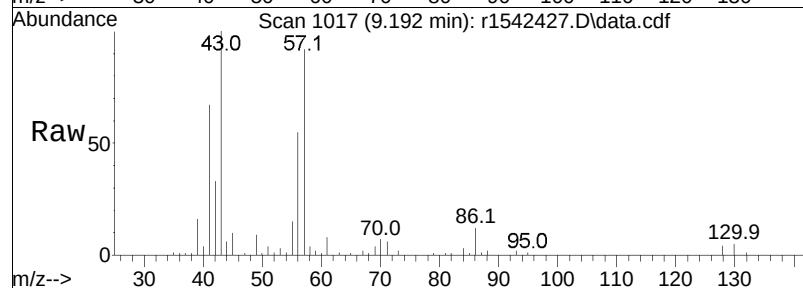
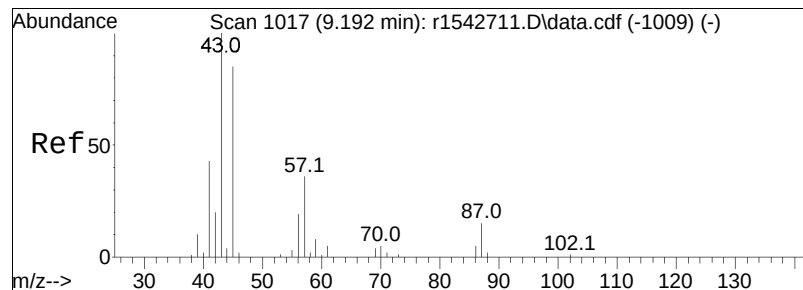




#40
Tetrahydrofuran
Concen: 1.61 ppbV
RT: 9.733 min Scan# 1082
Delta R.T. 0.067 min
Lab File: r1542427.D
Acq: 31 Jan 2024 11:32 PM

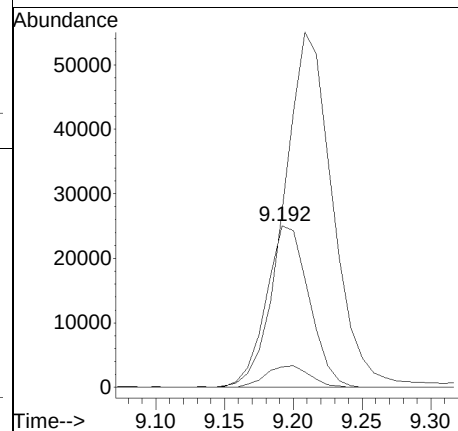
Tgt Ion	Ratio	Lower	Upper
42	100		
71	28.1	30.6	46.0#
72	32.8	32.5	48.7

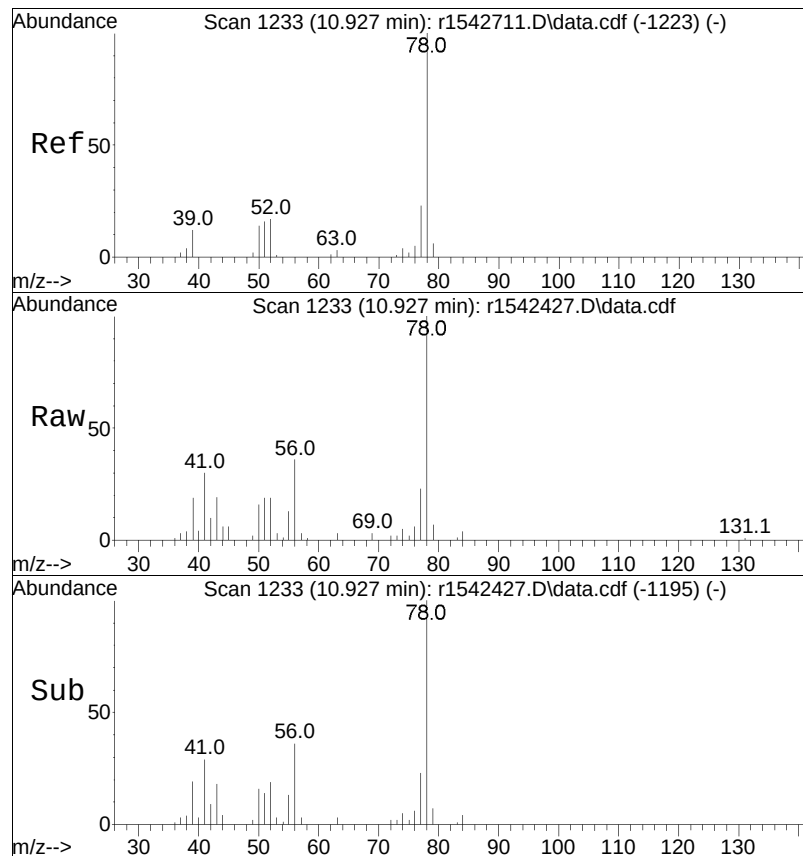




#44
hexane
Concen: 1.35 ppbV
RT: 9.192 min Scan# 1017
Delta R.T. 0.050 min
Lab File: r1542427.D
Acq: 31 Jan 2024 11:32 PM

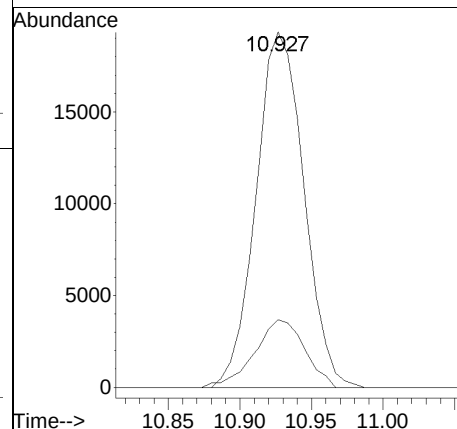
Tgt Ion	Ratio	Lower	Upper
57	100		
43	108.5	146.8	220.2#
86	12.7	12.7	19.1

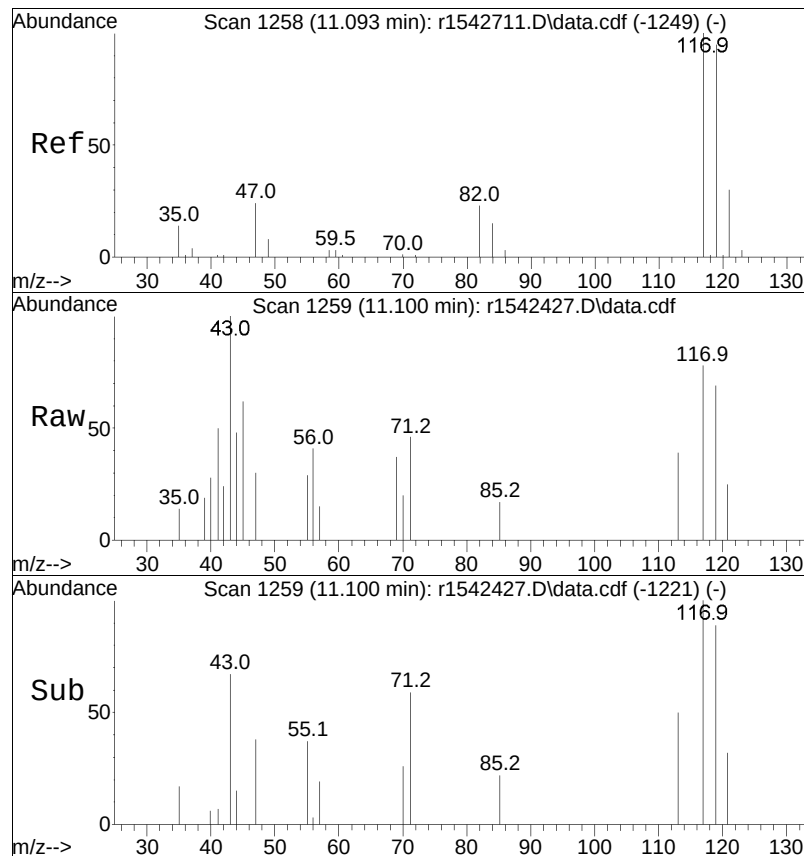




#50
benzene
Concen: 0.60 ppbV
RT: 10.927 min Scan# 1233
Delta R.T. 0.053 min
Lab File: r1542427.D
Acq: 31 Jan 2024 11:32 PM

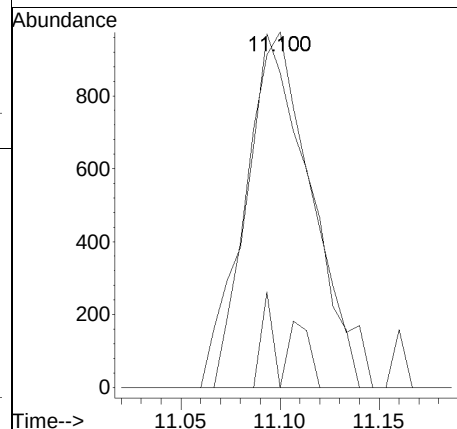
Tgt	Ion	Resp	Lower	Upper
78	100			
52	19.1		14.1	21.1

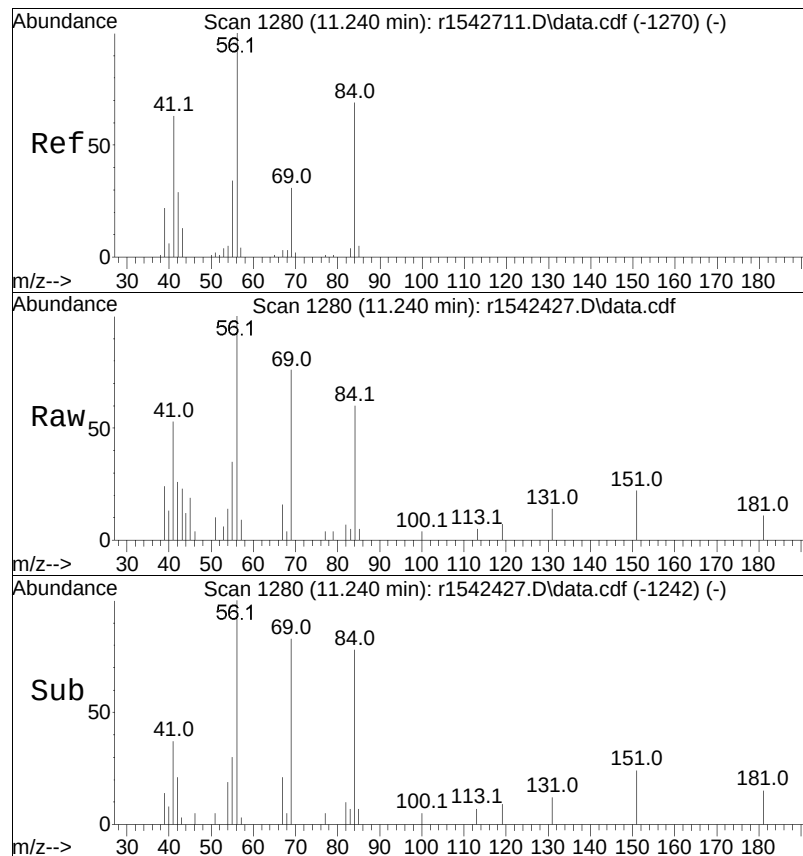




#52
 carbon tetrachloride
 Concen: 0.08 ppbV
 RT: 11.100 min Scan# 1259
 Delta R.T. 0.053 min
 Lab File: r1542427.D
 Acq: 31 Jan 2024 11:32 PM

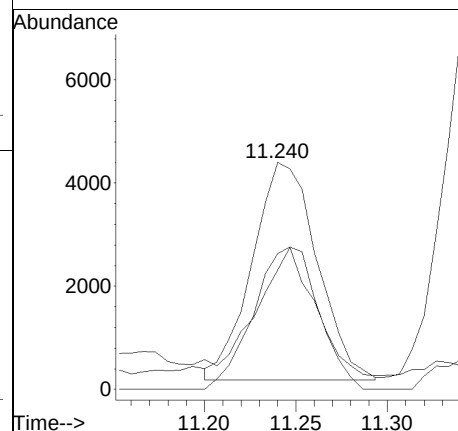
Tgt Ion:	117	Resp:	2158
Ion Ratio	Lower	Upper	
117	100		
119	88.5	77.1	115.7
82	0.0	17.2	25.8#

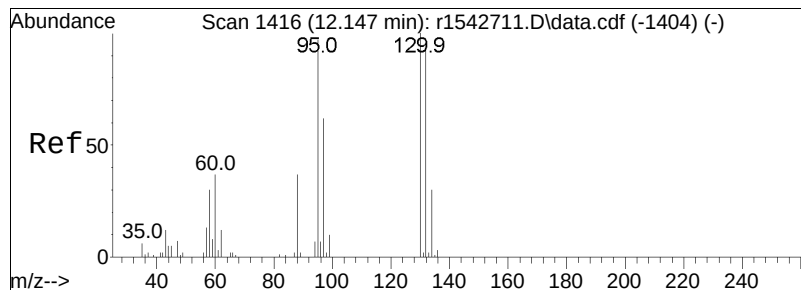




#53
cyclohexane
Concen: 0.24 ppbV m
RT: 11.240 min Scan# 1280
Delta R.T. 0.053 min
Lab File: r1542427.D
Acq: 31 Jan 2024 11:32 PM

Tgt	Ion	Ratio	Lower	Upper
56	100			
84	59.8	60.2	90.2#	
41	52.6	33.5	50.3#	





#59

trichloroethene

Concen: 1.33 ppbV

RT: 12.153 min Scan# 1417

Delta R.T. 0.053 min

Lab File: r1542427.D

Acq: 31 Jan 2024 11:32 PM

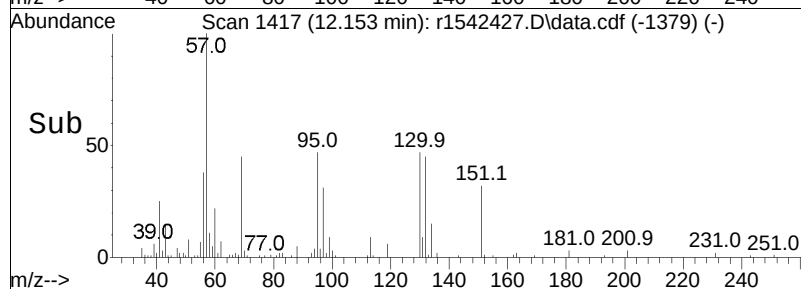
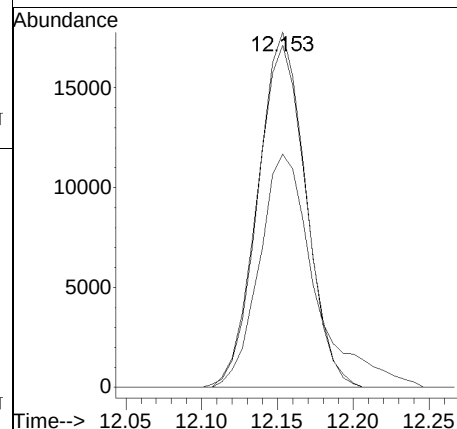
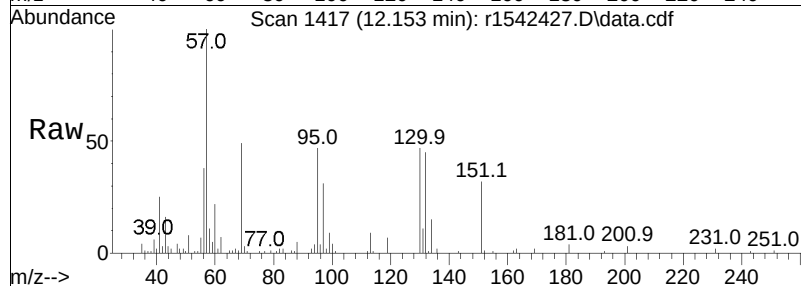
Tgt Ion:130 Resp: 39141

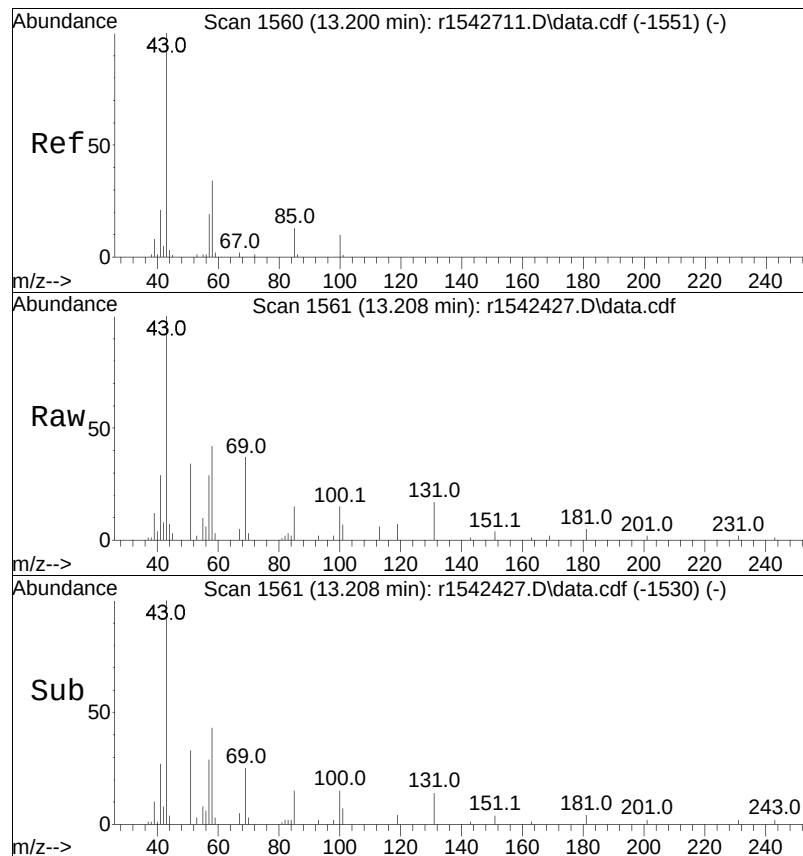
Ion Ratio Lower Upper

130 100

132 96.3 74.7 112.1

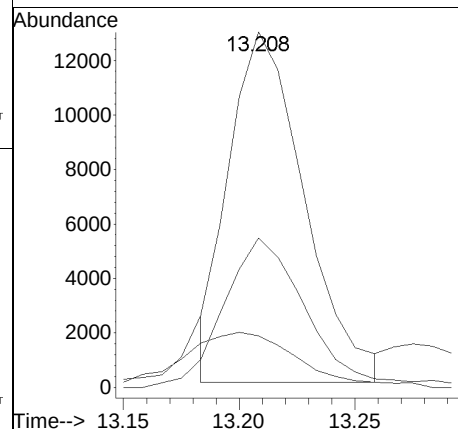
97 65.6 46.6 70.0

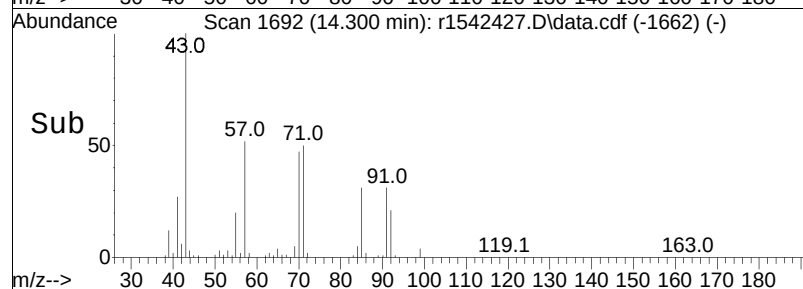
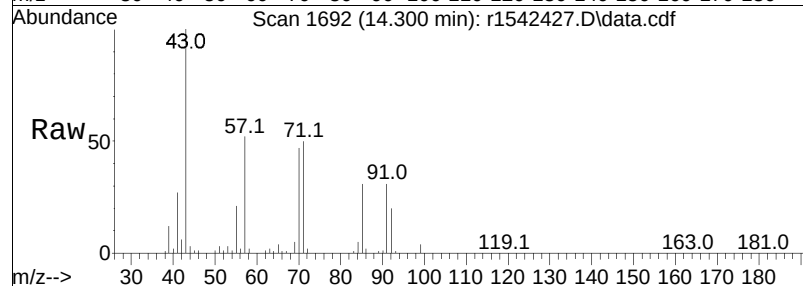
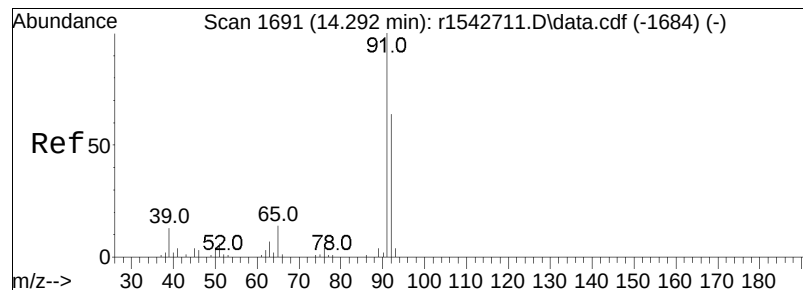




#64
 4-methyl-2-pentanone
 Concen: 0.58 ppbV m
 RT: 13.208 min Scan# 1561
 Delta R.T. 0.058 min
 Lab File: r1542427.D
 Acq: 31 Jan 2024 11:32 PM

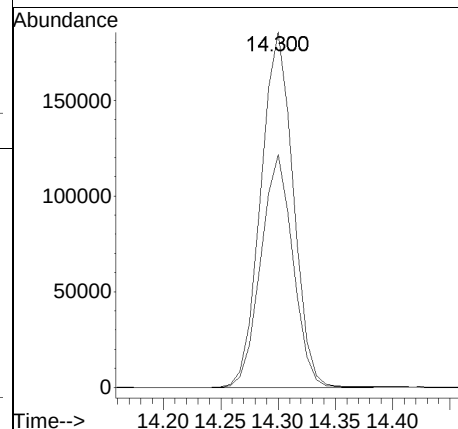
Tgt Ion:	43	Resp:	29115
Ion Ratio	Lower	Upper	
43	100		
58	42.1	39.5	59.3
100	14.5	11.8	17.6

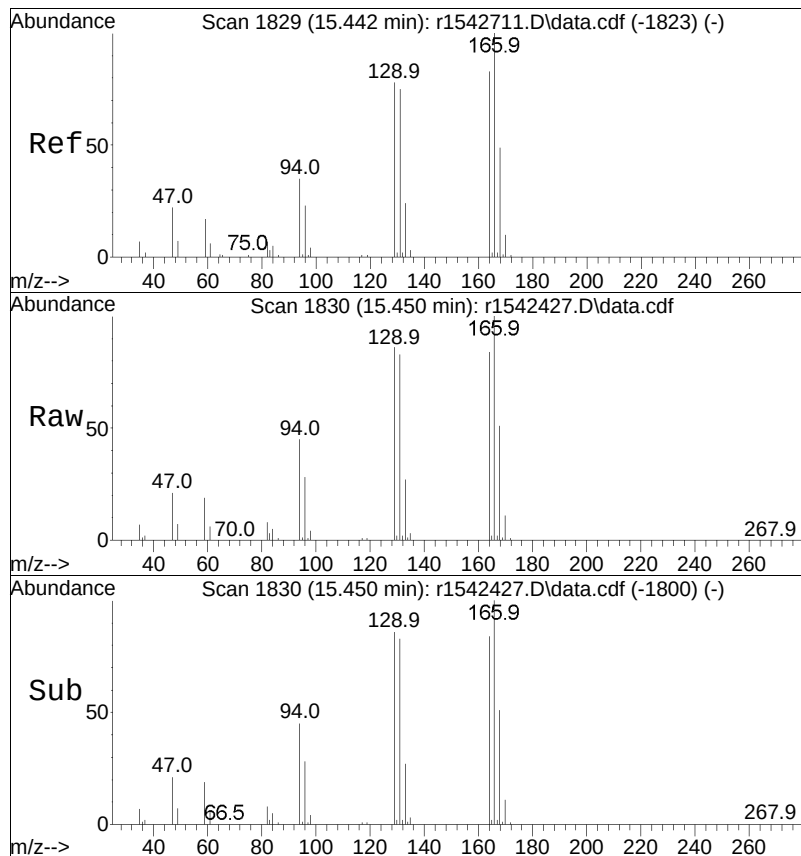




#68
toluene
Concen: 3.75 ppbV
RT: 14.300 min Scan# 1692
Delta R.T. 0.050 min
Lab File: r1542427.D
Acq: 31 Jan 2024 11:32 PM

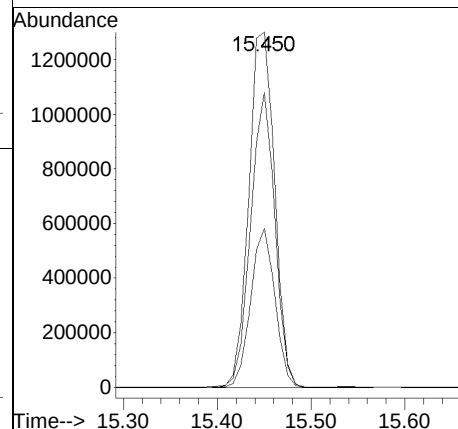
Tgt	Ion	Resp	Lower	Upper
91	100			
92	65.5	51.0	76.4	

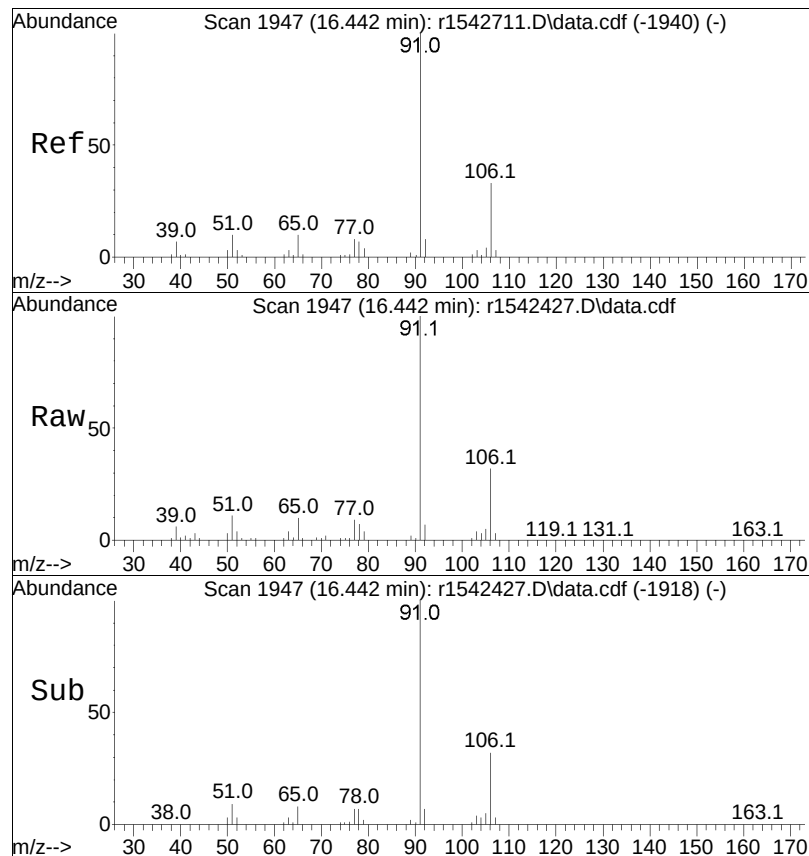




#78
 tetrachloroethene
 Concen: 63.69 ppbV
 RT: 15.450 min Scan# 1830
 Delta R.T. 0.050 min
 Lab File: r1542427.D
 Acq: 31 Jan 2024 11:32 PM

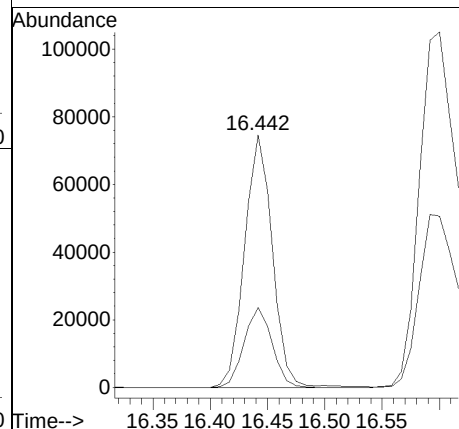
Tgt	Ion:166	Resp:	2490937
Ion	Ratio	Lower	Upper
166	100		
131	83.0	55.6	83.4
94	44.8	25.4	38.2#

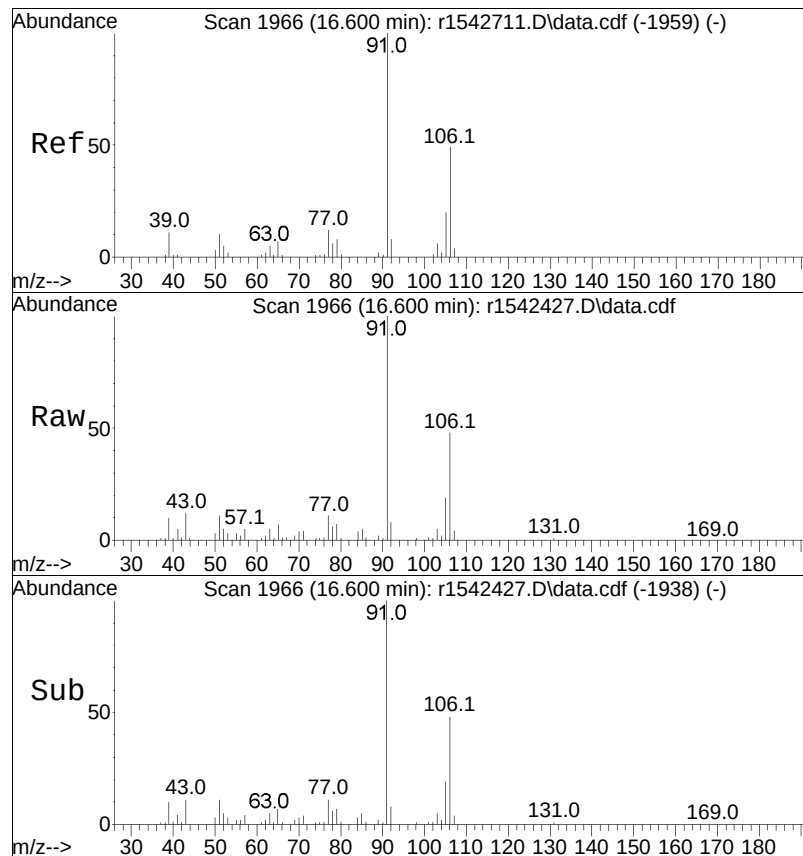




#81
ethylbenzene
Concen: 1.01 ppbV
RT: 16.442 min Scan# 1947
Delta R.T. 0.042 min
Lab File: r1542427.D
Acq: 31 Jan 2024 11:32 PM

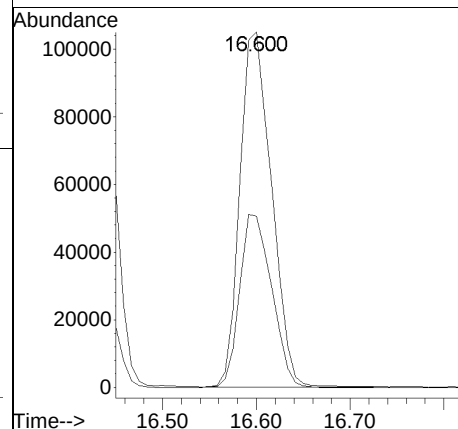
Tgt Ion: 91 Resp: 126083
Ion Ratio Lower Upper
91 100
106 31.6 27.7 41.5

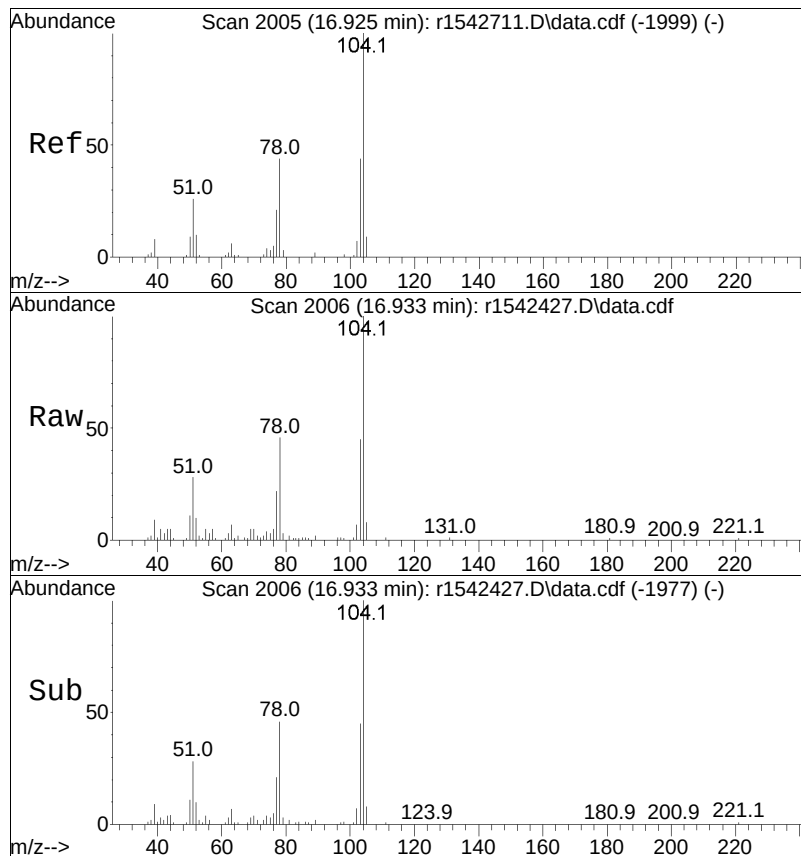




#83
 m+p-xylene
 Concen: 2.50 ppbV
 RT: 16.600 min Scan# 1966
 Delta R.T. 0.033 min
 Lab File: r1542427.D
 Acq: 31 Jan 2024 11:32 PM

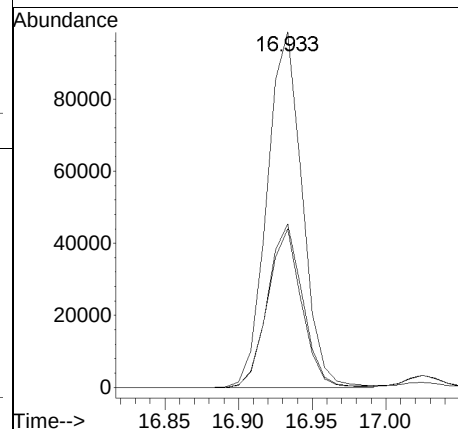
Tgt Ion:	91	Resp:	246037
Ion Ratio	Lower	Upper	
91	100		
106	48.2	42.7	64.1

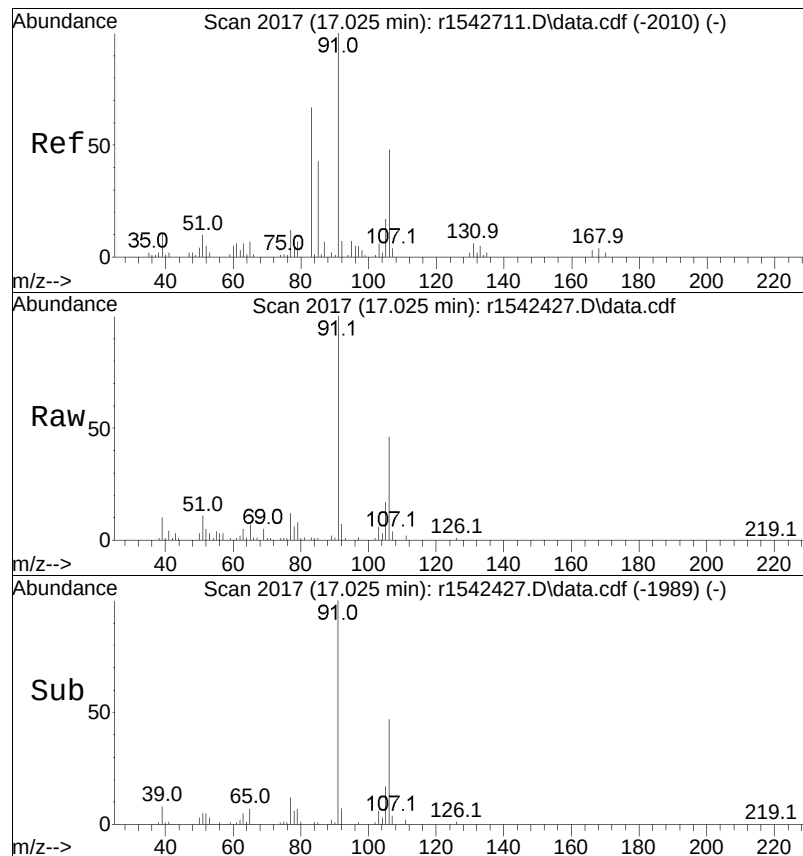




#85
styrene
Concen: 2.06 ppbV
RT: 16.933 min Scan# 2006
Delta R.T. 0.042 min
Lab File: r1542427.D
Acq: 31 Jan 2024 11:32 PM

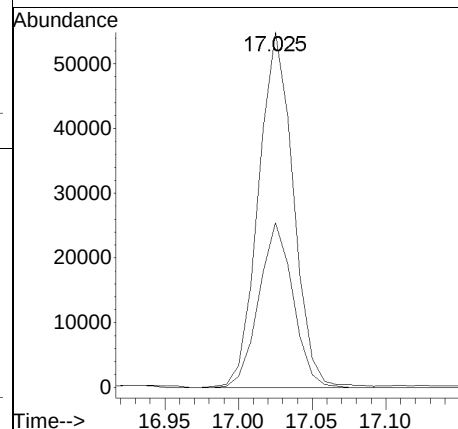
Tgt Ion:	104	Resp:	163983
Ion Ratio	Lower	Upper	
104	100		
103	44.6	34.9	52.3
78	46.0	36.2	54.4

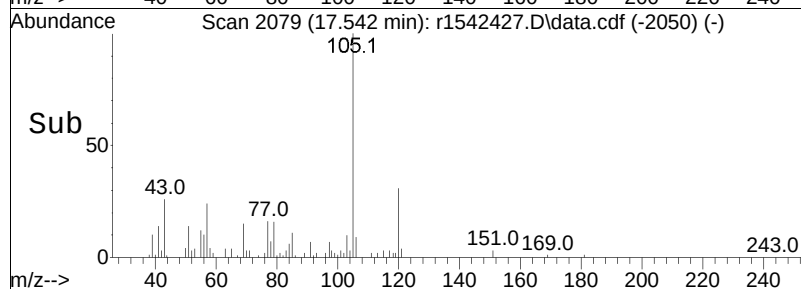
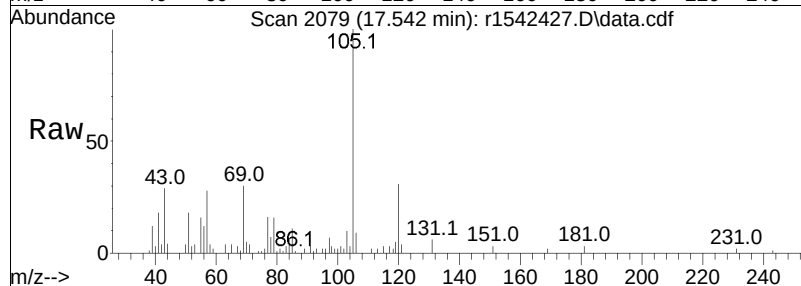
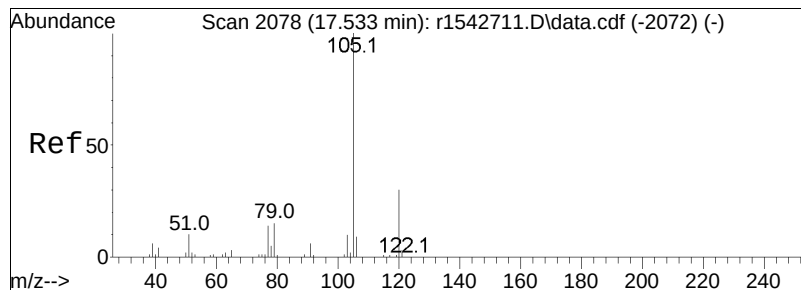




#87
 o-xylene
 Concen: 0.92 ppbV
 RT: 17.025 min Scan# 2017
 Delta R.T. 0.033 min
 Lab File: r1542427.D
 Acq: 31 Jan 2024 11:32 PM

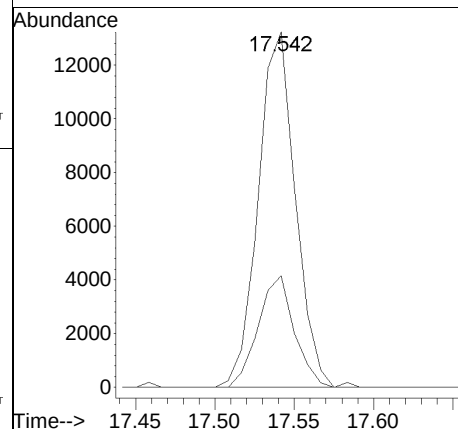
Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
106	46.4	40.0	60.0	

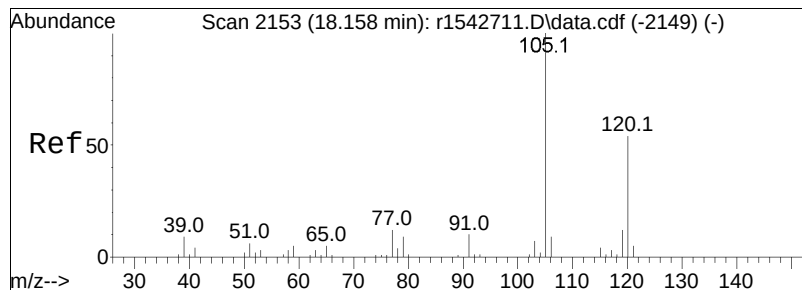




#91
isopropylbenzene
Concen: 0.17 ppbV
RT: 17.542 min Scan# 2079
Delta R.T. 0.042 min
Lab File: r1542427.D
Acq: 31 Jan 2024 11:32 PM

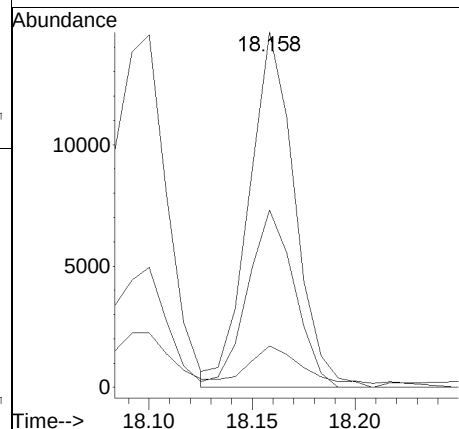
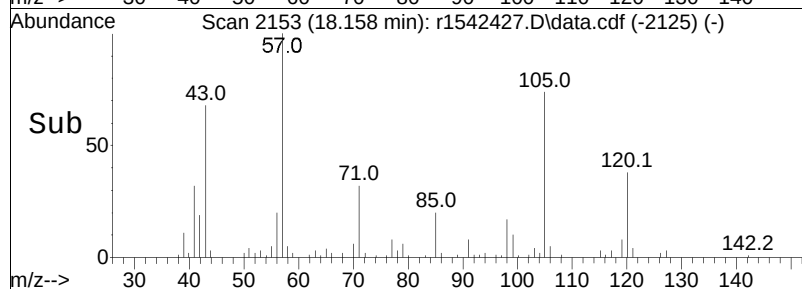
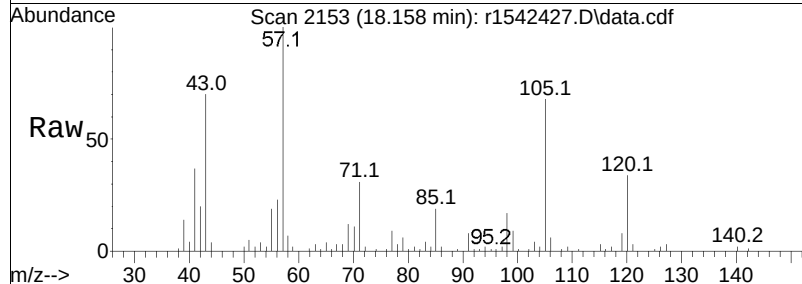
Tgt Ion	Ratio	Lower	Upper
105	100		
120	31.4	26.2	39.4

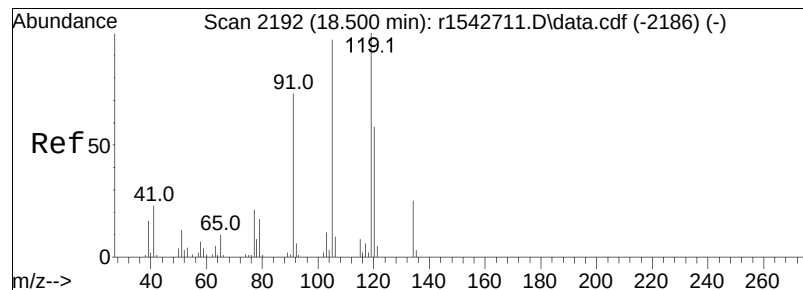




#97
 1,3,5-trimethylbenzene
 Concen: 0.18 ppbV
 RT: 18.158 min Scan# 2153
 Delta R.T. 0.033 min
 Lab File: r1542427.D
 Acq: 31 Jan 2024 11:32 PM

Tgt Ion	Ratio	Lower	Upper
105	100		
120	49.9	46.0	69.0
91	11.7	7.5	11.3





#99

1,2,4-trimethylbenzene

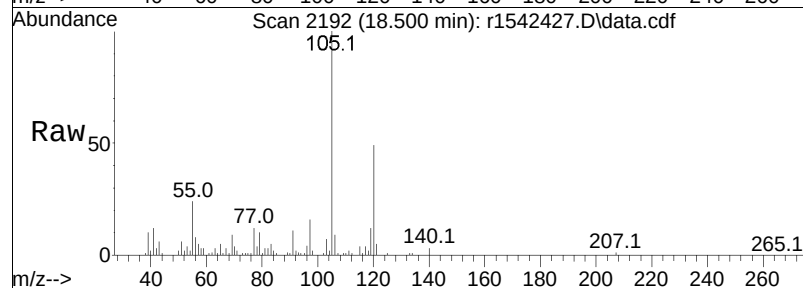
Concen: 0.78 ppbV m

RT: 18.500 min Scan# 2192

Delta R.T. 0.033 min

Lab File: r1542427.D

Acq: 31 Jan 2024 11:32 PM



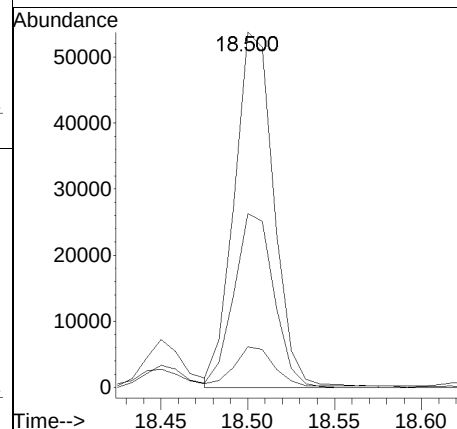
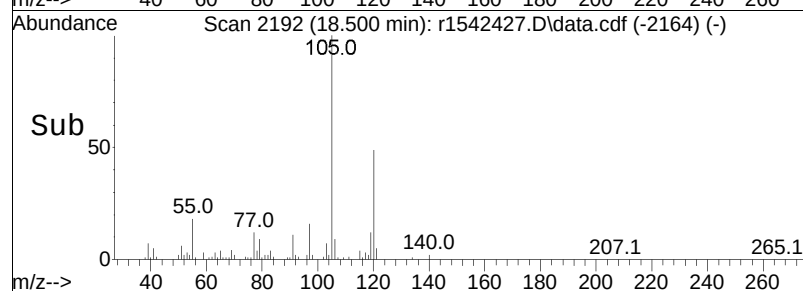
Tgt Ion:105 Resp: 85525

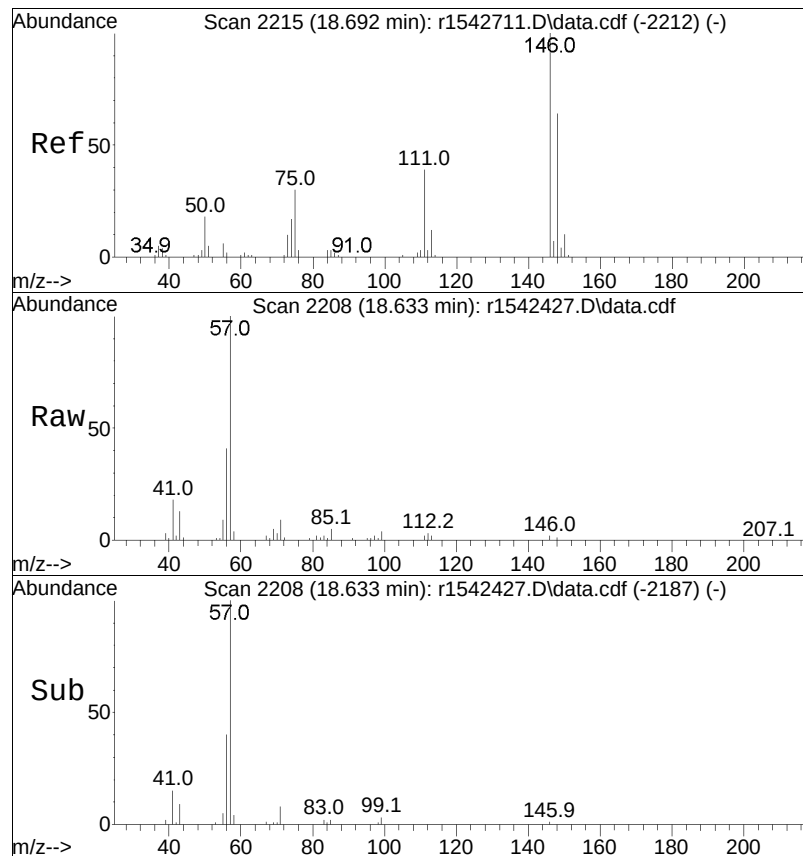
Ion Ratio Lower Upper

105 100

120 48.9 51.8 77.6#

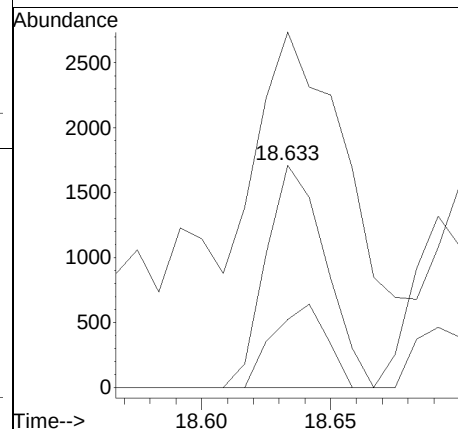
91 11.4 58.3 87.5#

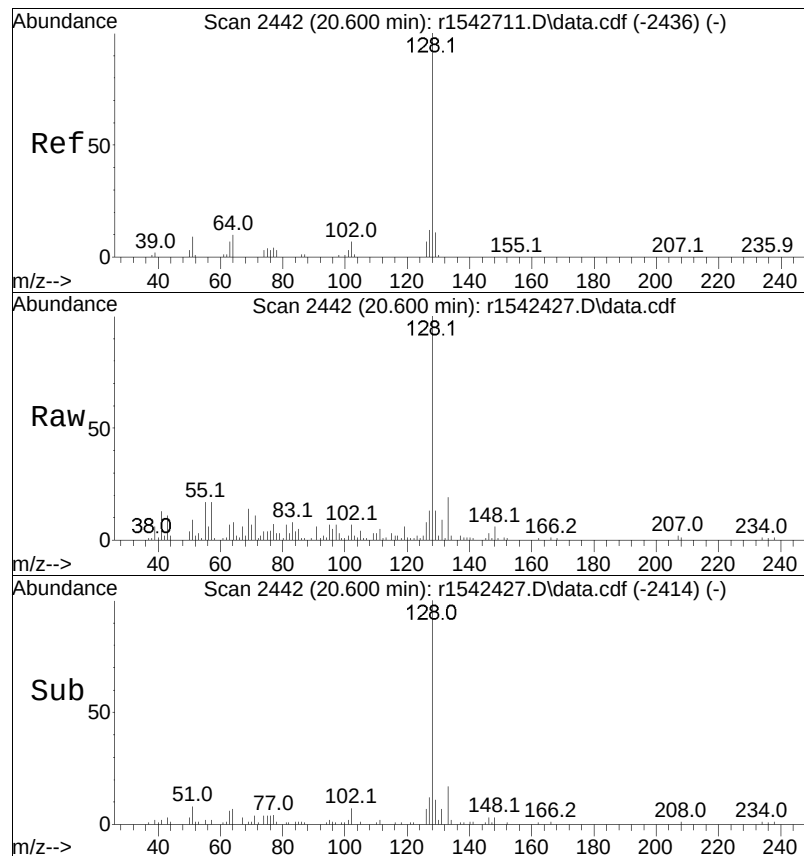




#103
 1,4-dichlorobenzene
 Concen: 0.04 ppbV
 RT: 18.633 min Scan# 2208
 Delta R.T. -0.025 min
 Lab File: r1542427.D
 Acq: 31 Jan 2024 11:32 PM

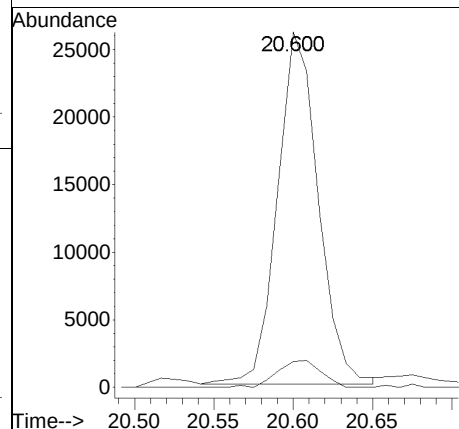
Tgt Ion:	146	Resp:	2766
Ion Ratio	Lower	Upper	
146	100		
111	160.1	32.2	48.4#
75	30.6	21.8	32.6





#116
 naphthalene
 Concen: 0.31 ppbV
 RT: 20.600 min Scan# 2442
 Delta R.T. 0.033 min
 Lab File: r1542427.D
 Acq: 31 Jan 2024 11:32 PM

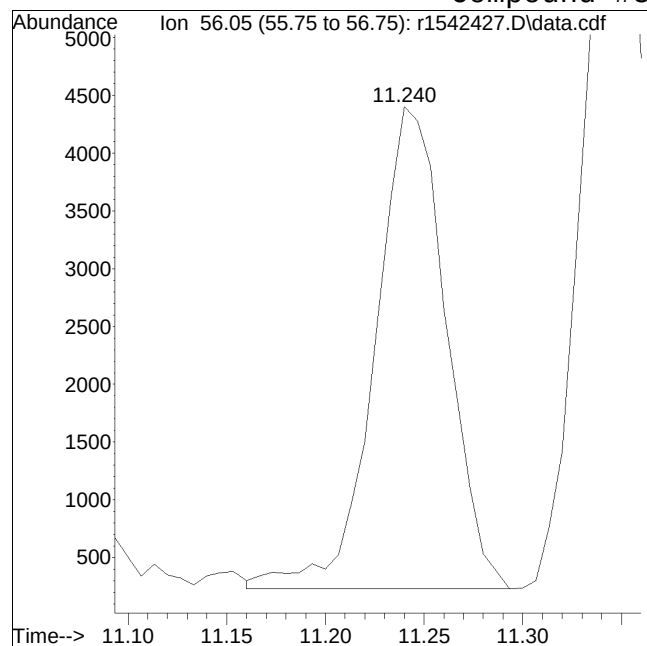
Tgt Ion	Ratio	Lower	Upper
128	100		
102	7.3	5.4	8.2



Manual Integration Report

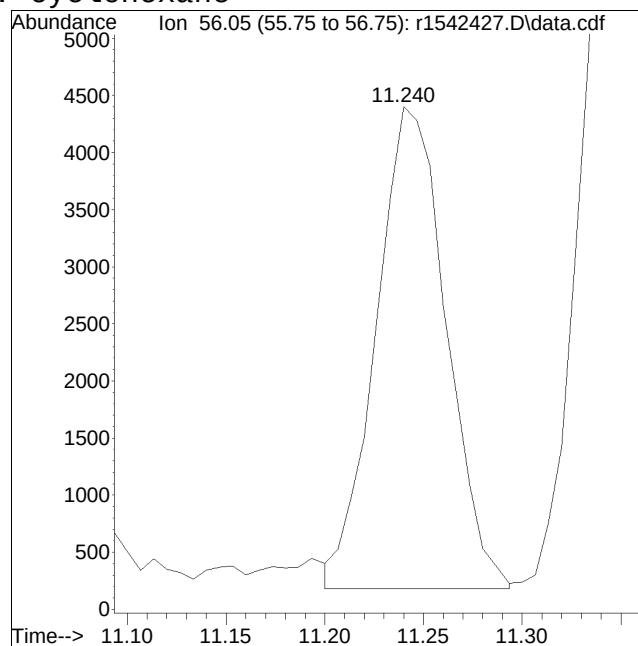
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1542427.D Operator : AIRLAB15:JMB
Date Inj'd : 1/31/2020 0:1: 2 Instrument :
Sample : L2403288-07,3,250,250 Quant Date : 2/1/2024 6:53 am

Compound #53: cyclohexane



Original Peak Response = 10512

M4 = Poor automated baseline construction.

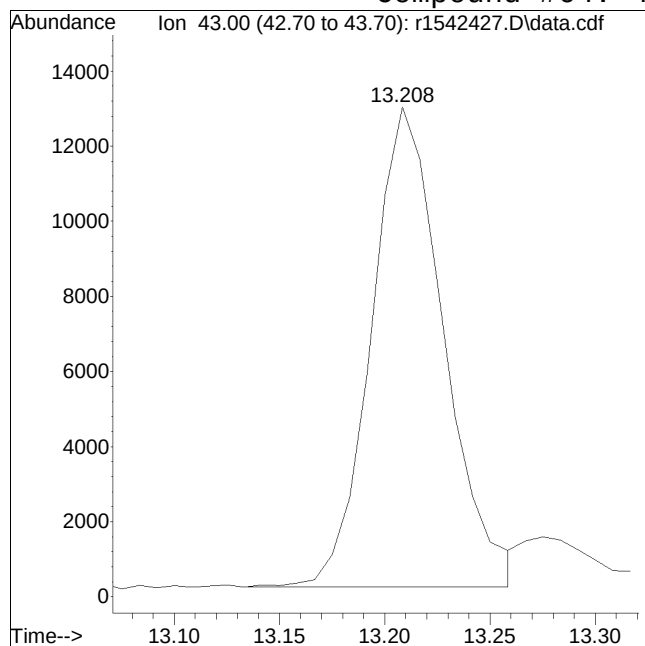


Manual Peak Response = 10429 M4

Manual Integration Report

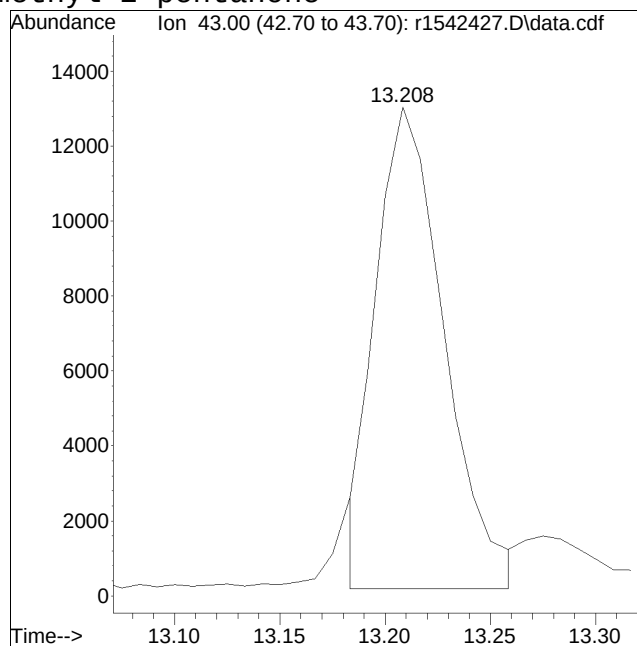
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1542427.D Operator : AIRLAB15:JMB
Date Inj'd : 1/31/2020 0:1: 2 Instrument :
Sample : L2403288-07,3,250,250 Quant Date : 2/1/2024 6:53 am

Compound #64: 4-methyl-2-pentanone



Original Peak Response = 30594

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

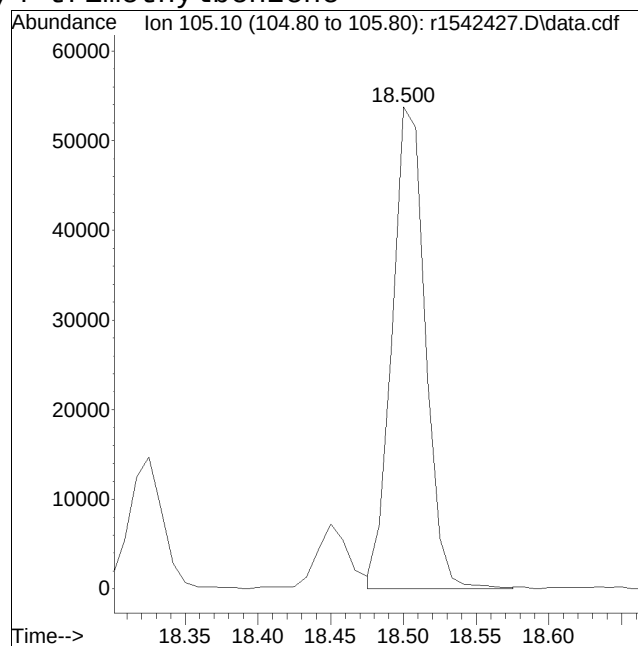
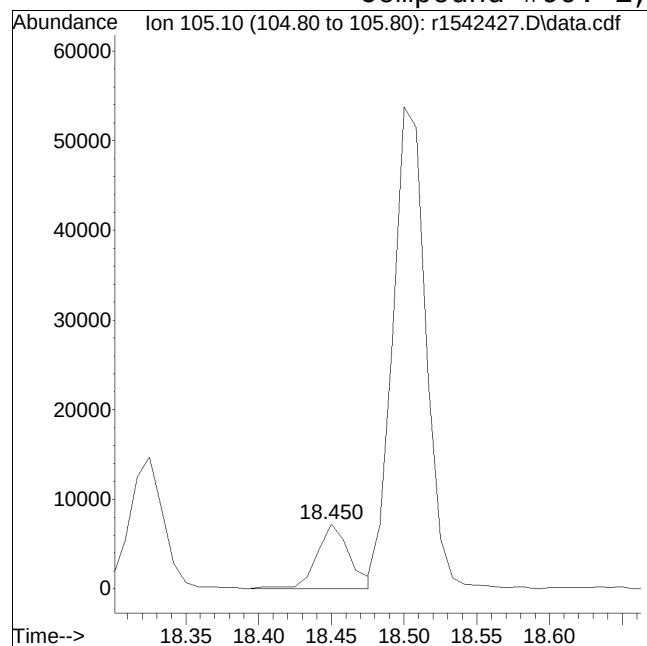


Manual Peak Response = 29115 M6

Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1542427.D Operator : AIRLAB15:JMB
Date Inj'd : 1/31/2020 0:1: 2 Instrument :
Sample : L2403288-07,3,250,250 Quant Date : 2/1/2024 6:53 am

Compound #99: 1,2,4-trimethylbenzene



Original Peak Response = 11468

Manual Peak Response = 85525 M3

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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542428.D
 Acq On : 1 Feb 2024 12:11 AM
 Operator : AIRLAB15:JMB
 Sample : L2403288-08,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 06:53:48 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131T\r1542413.D
 Sub List : PADEP-T015 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.133	49	355376	10.000	ppbV	0.06
Standard Area = 375210			Recovery =		94.71%	
43) 1,4-difluorobenzene	11.347	114	958052	10.000	ppbV	# 0.05
Standard Area = 971110			Recovery =		98.66%	
67) chlorobenzene-D5	16.050	54	195122	10.000	ppbV	0.04
Standard Area = 187857			Recovery =		103.87%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	4.030	85	21045	0.520	ppbV	98
6) chloromethane	4.192	50	4669	0.307	ppbV	92
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	4.564		0	N.D.		
13) bromomethane	4.852		0	N.D.		
14) chloroethane	5.044		0	N.D.		
17) vinyl bromide	0.000		0	N.D.		
18) acrolein	5.560	56	3632	0.440	ppbV #	52
19) acetone	5.700	43	395207M6	19.702	ppbV	
21) trichlorofluoromethane	5.890	101	9370	0.310	ppbV	96
22) isopropyl alcohol	5.980	45	496187	19.633	ppbV	98
23) acrylonitrile	6.217	53	4871	0.270	ppbV #	91
26) 1,1-dichloroethene	6.534		0	N.D.		
28) methylene chloride	6.732	49	7072	0.258	ppbV	100
29) 3-chloropropene	0.000		0	N.D.	d	
30) carbon disulfide	7.038	76	37760	0.587	ppbV #	11
31) Freon 113	7.032	101	2825	0.071	ppbV	95
32) trans-1,2-dichloroethene	7.792		0	N.D.		
33) 1,1-dichloroethane	8.083		0	N.D.		
34) MTBE	0.000		0	N.D.	d	
37) cis-1,2-dichloroethene	0.000		0	N.D.		
39) chloroform	9.283	83	28854	0.662	ppbV #	95
40) Tetrahydrofuran	9.742	42	14568	0.494	ppbV #	85
42) 1,2-dichloroethane	10.117		0	N.D.		
44) hexane	9.200	57	19995	0.477	ppbV #	49
48) 1,1,1-trichloroethane	10.408	97	2022	0.065	ppbV #	74
50) benzene	10.933	78	38657	0.499	ppbV	98
52) carbon tetrachloride	11.107	117	2123	0.074	ppbV #	94

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542428.D
 Acq On : 1 Feb 2024 12:11 AM
 Operator : AIRLAB15:JMB
 Sample : L2403288-08,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 06:53:48 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131T\r1542413.D
 Sub List : PADEP-T015 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
53) cyclohexane	11.247	56	9844	0.216	ppbV	#	85
56) 1,2-dichloropropane	11.880		0	N.D.			
57) bromodichloromethane	0.000		0	N.D.	d		
58) 1,4-dioxane	0.000		0	N.D.	d		
59) trichloroethene	12.153	130	7781	0.254	ppbV	#	85
61) methyl methacrylate	0.000		0	N.D.	d		
64) 4-methyl-2-pentanone	13.217	43	8833M6	0.169	ppbV		
66) 1,1,2-trichloroethane	13.867		0	N.D.			
68) toluene	14.300	91	109470	0.978	ppbV		98
71) 1,3-dichloropropane	14.292		0	N.D.			
74) dibromochloromethane	0.000		0	N.D.			
75) 1,2-dibromoethane	0.000		0	N.D.			
78) tetrachloroethene	15.450	166	219325	4.885	ppbV	#	89
80) chlorobenzene	16.033		0	N.D.			
81) ethylbenzene	16.442	91	22595	0.158	ppbV		94
83) m+p-xylene	16.600	91	51966	0.460	ppbV		95
84) bromoform	0.000		0	N.D.			
85) styrene	16.933	104	28744	0.314	ppbV		97
86) 1,1,2,2-tetrachloroethane	16.917		0	N.D.			
87) o-xylene	17.025	91	19610	0.174	ppbV		95
91) isopropylbenzene	17.542	105	9376	0.065	ppbV		91
97) 1,3,5-trimethylbenzene	18.158	105	5229	0.037	ppbV	#	97
99) 1,2,4-trimethylbenzene	18.508	105	19916M3	0.157	ppbV		
101) Benzyl Chloride	18.625		0	N.D.			
103) 1,4-dichlorobenzene	18.633		0	N.D.			
107) 1,2-dichlorobenzene	18.975		0	N.D.			
115) 1,2,4-trichlorobenzene	0.000		0	N.D.			
116) naphthalene	20.608	128	16979	0.099	ppbV		96

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

Sub List : PADEP-T015 - .ata\Airlab15\2024\01\0131T\r1542413.D

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\

Data File : r1542428.D

Acq On : 1 Feb 2024 12:11 AM

Operator : AIRLAB15:JMB

Sample : L2403288-08,3,250,250

Misc : WG1880230,ICAL20574

ALS Vial : 0 Sample Multiplier: 1

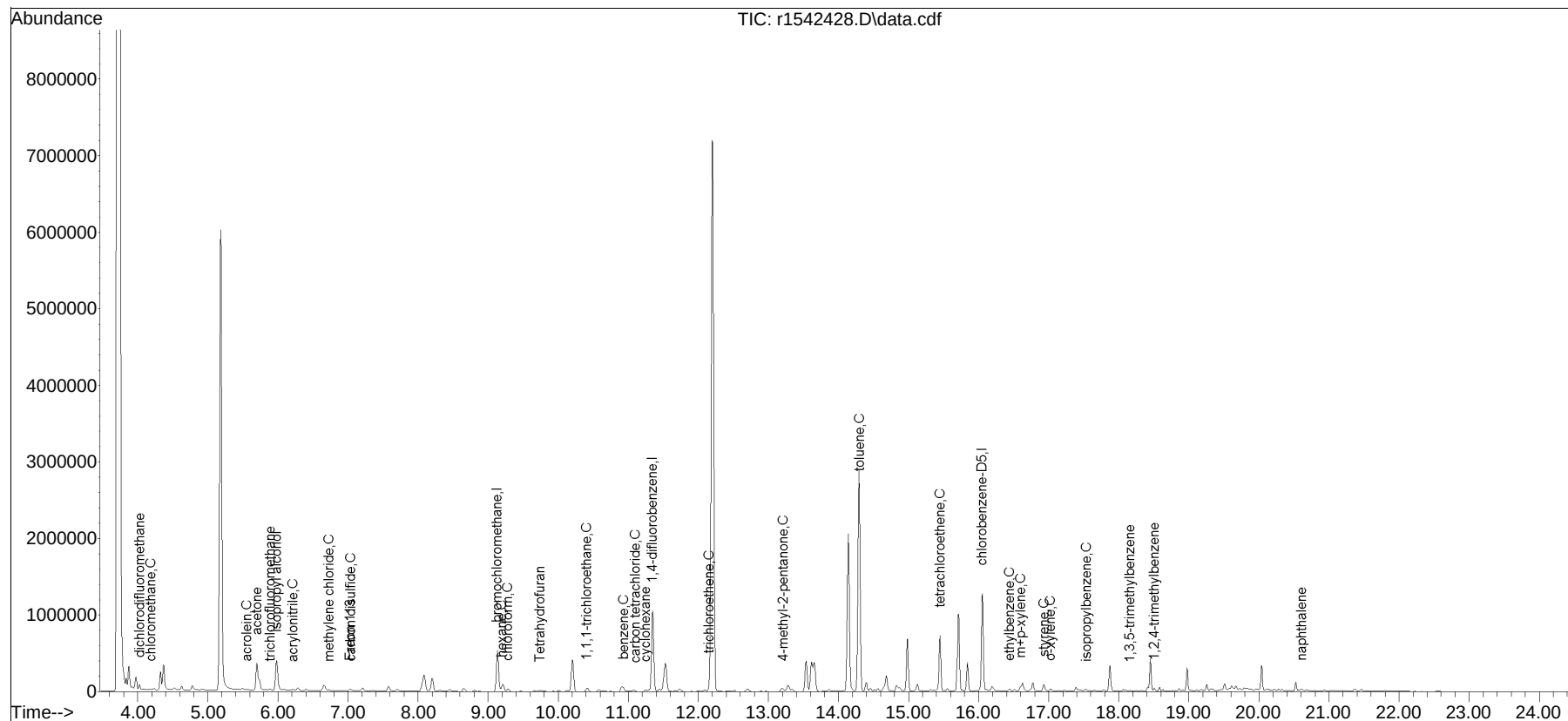
Quant Time: Feb 01 06:53:48 2024

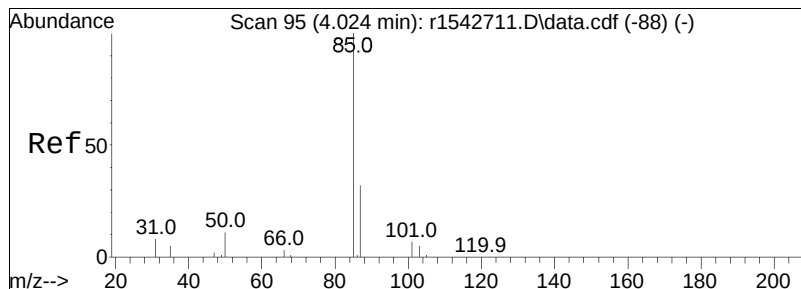
Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

QLast Update : Tue Nov 21 15:43:21 2023

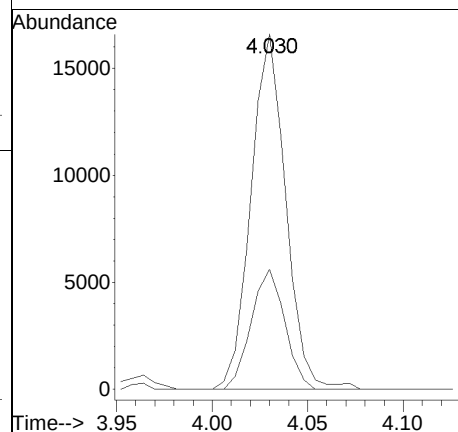
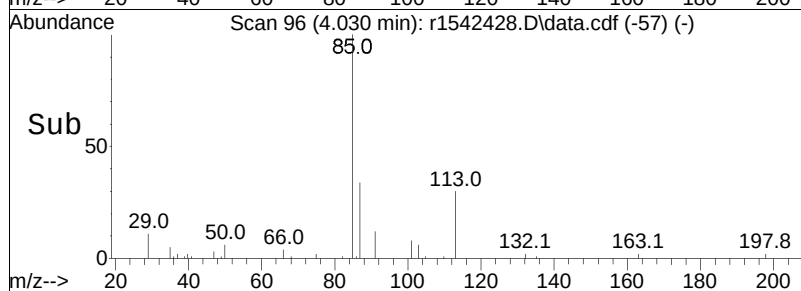
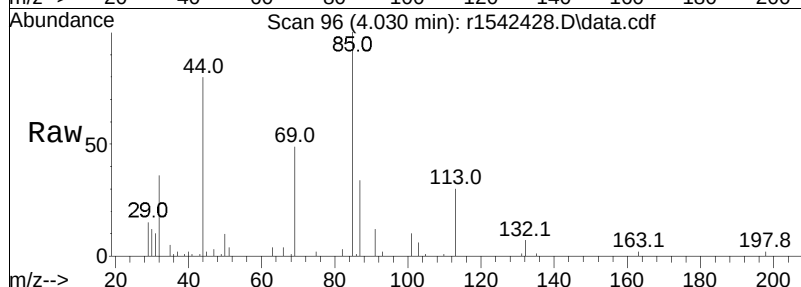
Response via : Initial Calibration

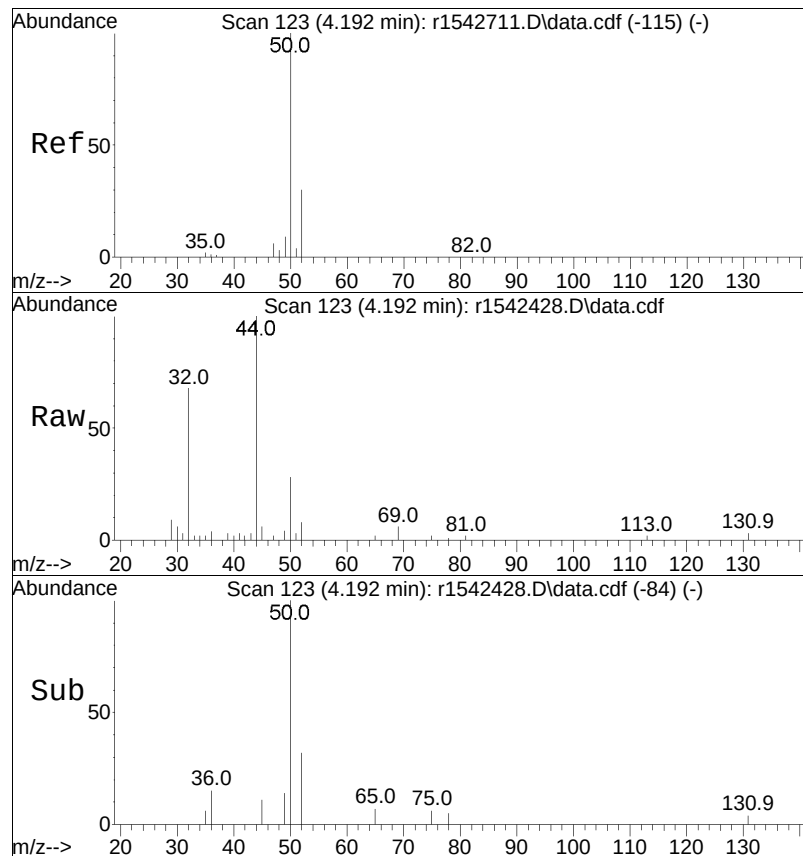




#5
dichlorodifluoromethane
Concen: 0.52 ppbV
RT: 4.030 min Scan# 96
Delta R.T. 0.036 min
Lab File: r1542428.D
Acq: 1 Feb 2024 12:11 AM

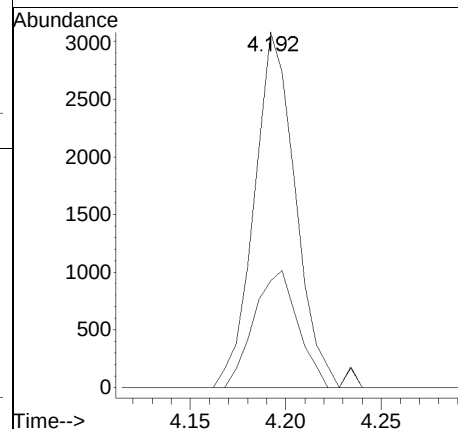
Tgt Ion: 85 Resp: 21045
Ion Ratio Lower Upper
85 100
87 33.8 26.1 39.1

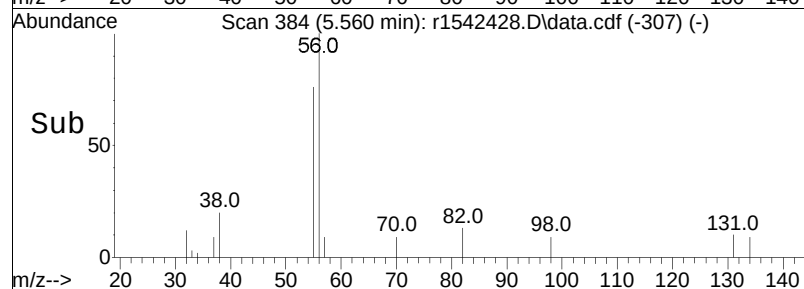
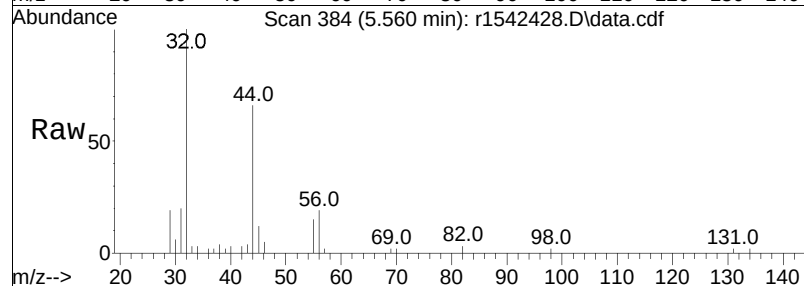
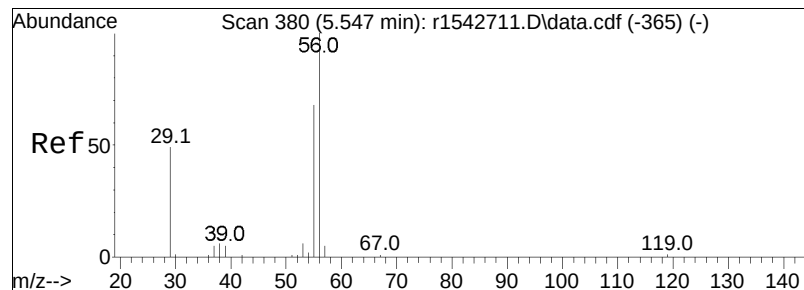




#6
 chloromethane
 Concen: 0.31 ppbV
 RT: 4.192 min Scan# 123
 Delta R.T. 0.036 min
 Lab File: r1542428.D
 Acq: 1 Feb 2024 12:11 AM

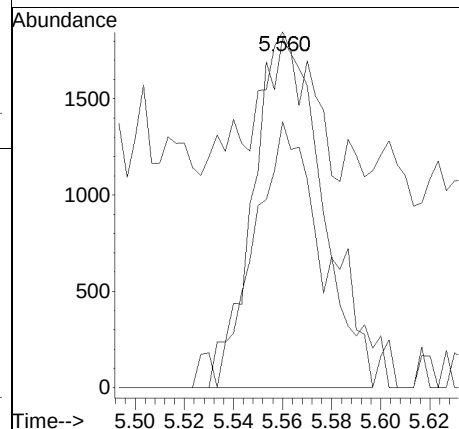
Tgt Ion	Ratio	Lower	Upper
50	100		
52	30.0	27.4	41.2

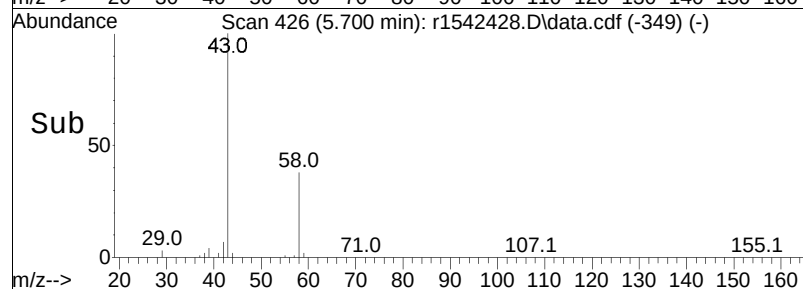
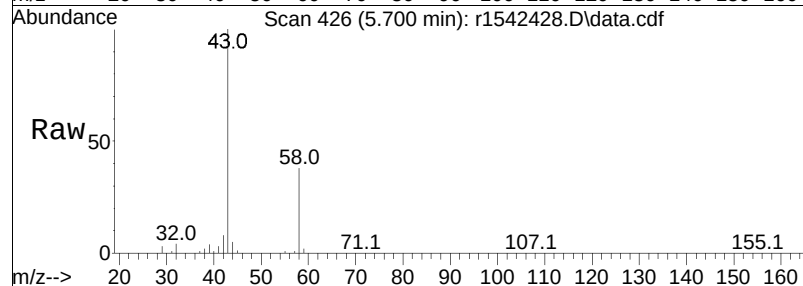
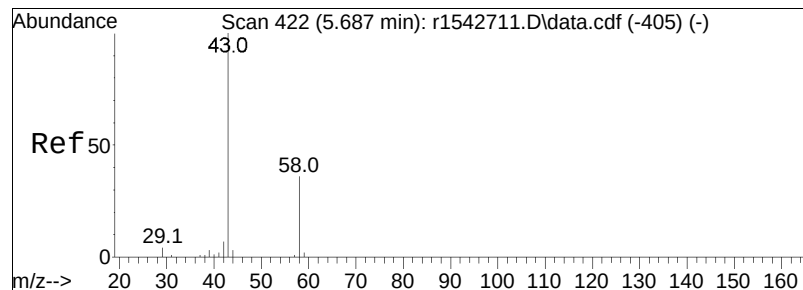




#18
acrolein
Concen: 0.44 ppbV
RT: 5.560 min Scan# 384
Delta R.T. 0.057 min
Lab File: r1542428.D
Acq: 1 Feb 2024 12:11 AM

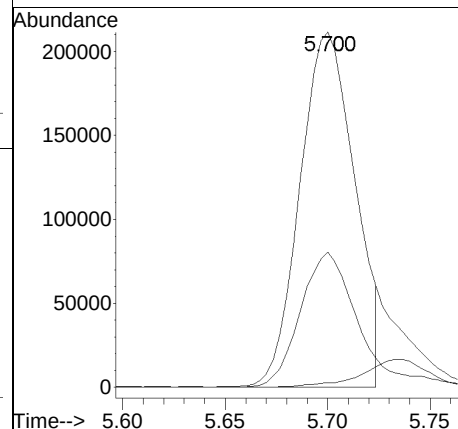
Tgt Ion	Ratio	Lower	Upper
56	100		
55	76.1	52.3	78.5
29	101.7	28.6	43.0#

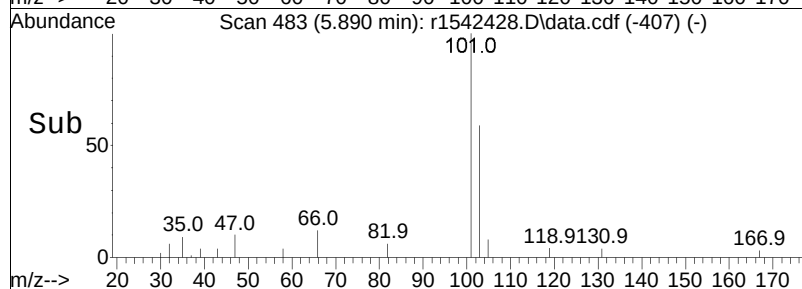
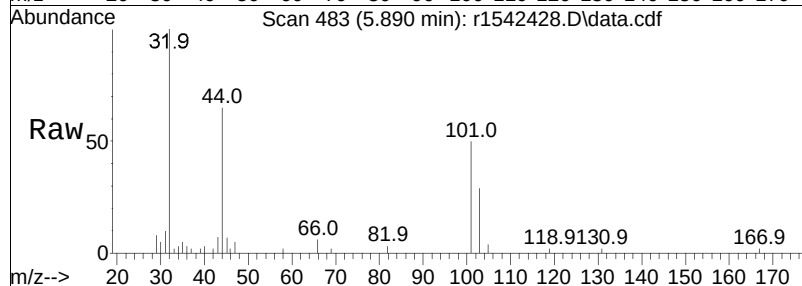
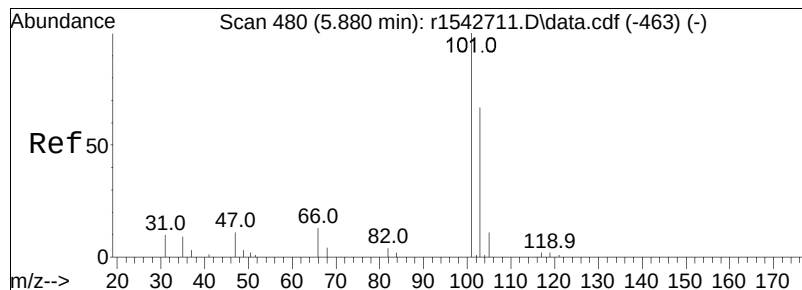




#19
acetone
Concen: 19.70 ppbV m
RT: 5.700 min Scan# 426
Delta R.T. 0.057 min
Lab File: r1542428.D
Acq: 1 Feb 2024 12:11 AM

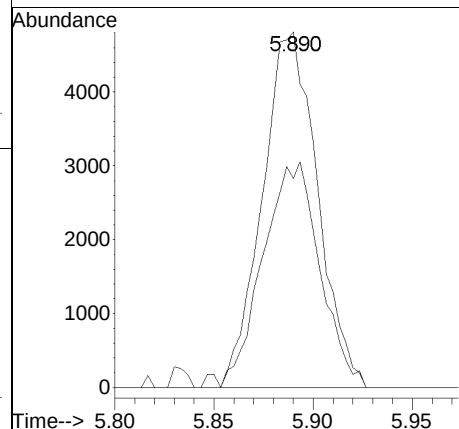
Tgt Ion:	43	Resp:	395207
Ion Ratio	Lower	Upper	
43	100		
58	38.1	39.0	58.4#
57	1.3	0.9	1.3

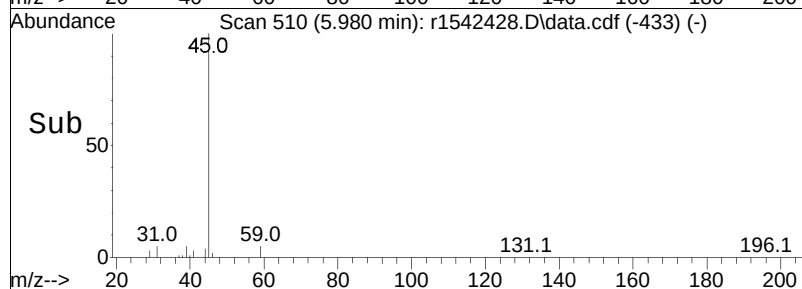
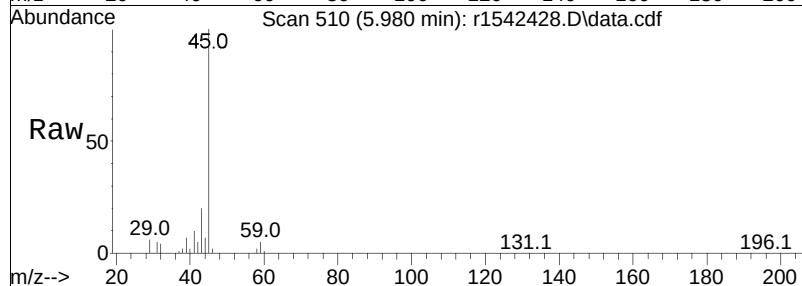
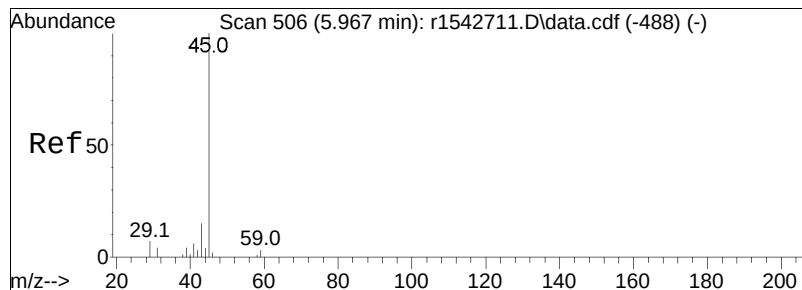




#21
trichlorofluoromethane
Concen: 0.31 ppbV
RT: 5.890 min Scan# 483
Delta R.T. 0.053 min
Lab File: r1542428.D
Acq: 1 Feb 2024 12:11 AM

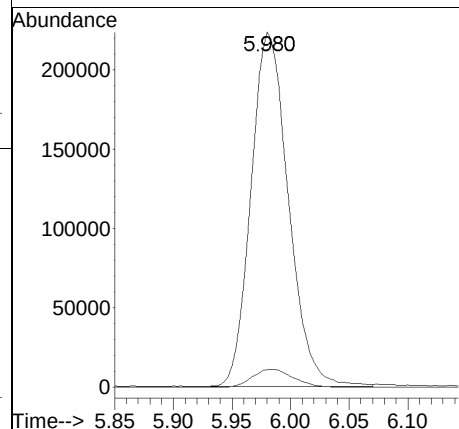
Tgt Ion	Ratio	Lower	Upper
101	100		
103	58.8	49.4	74.0

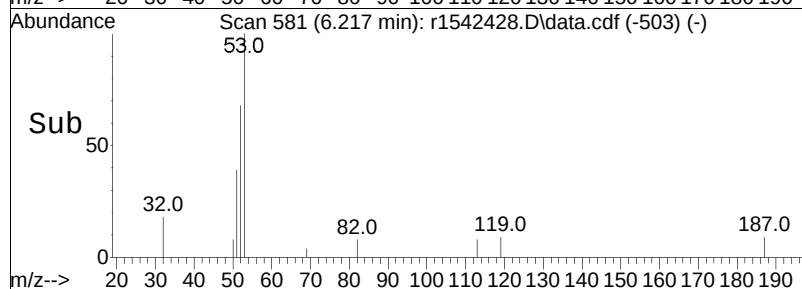
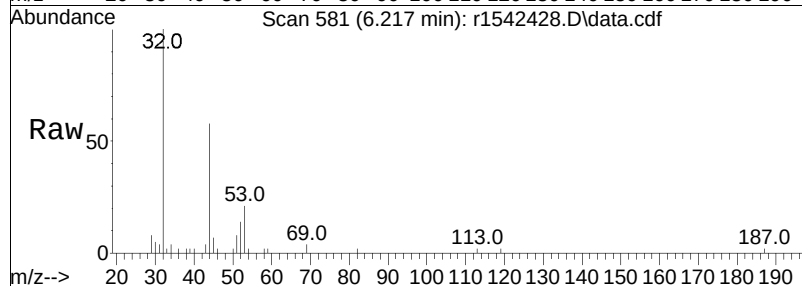
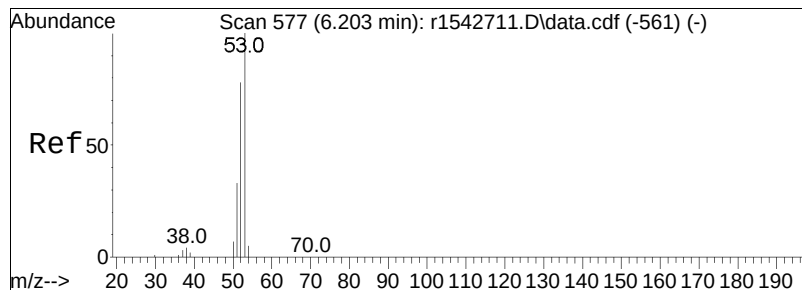




#22
isopropyl alcohol
Concen: 19.63 ppbV
RT: 5.980 min Scan# 510
Delta R.T. 0.057 min
Lab File: r1542428.D
Acq: 1 Feb 2024 12:11 AM

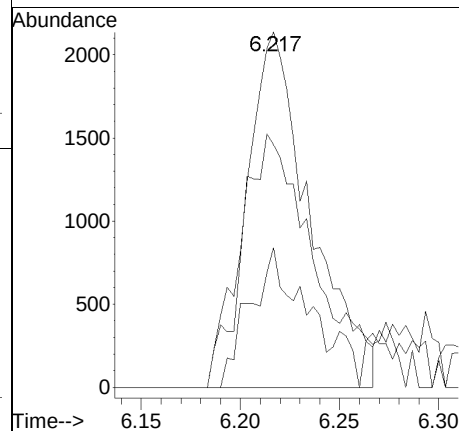
Tgt Ion	Ratio	Lower	Upper
45	100		
59	5.0	4.6	6.8

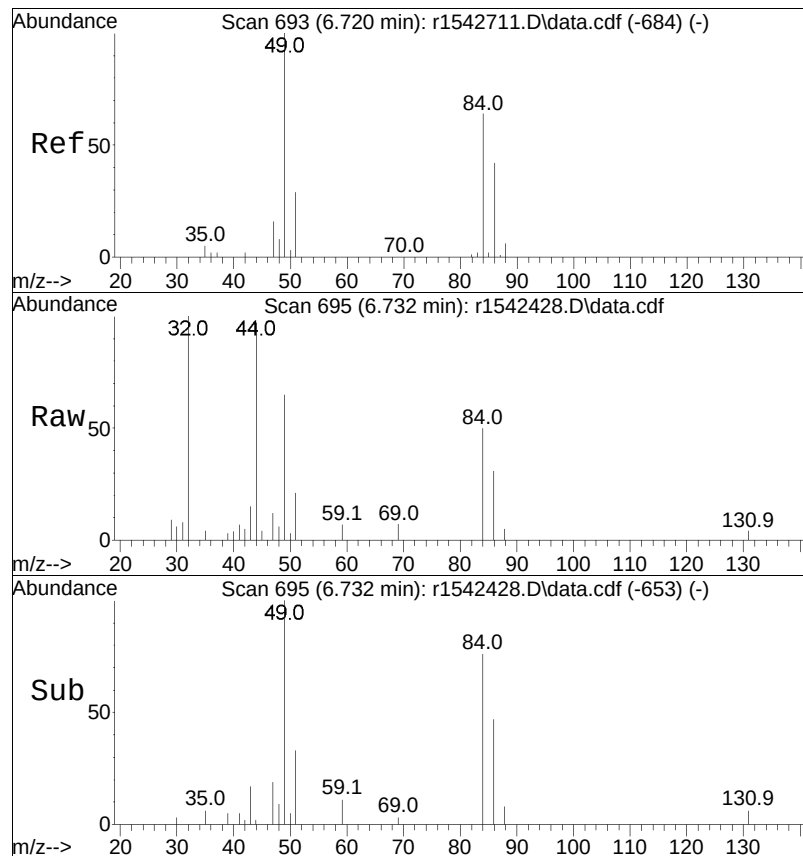




#23
acrylonitrile
Concen: 0.27 ppbV
RT: 6.217 min Scan# 581
Delta R.T. 0.060 min
Lab File: r1542428.D
Acq: 1 Feb 2024 12:11 AM

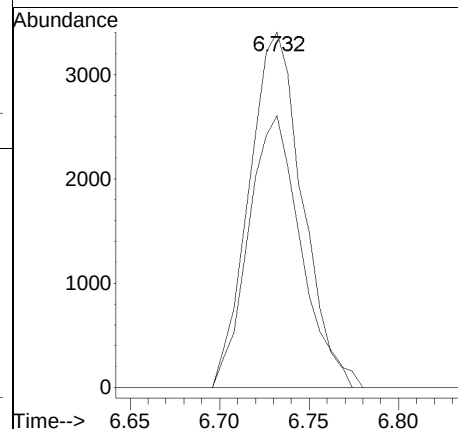
Tgt	Ion	Resp	Lower	Upper
53	100			
52	68.3		59.1	88.7
51	39.4		24.5	36.7#

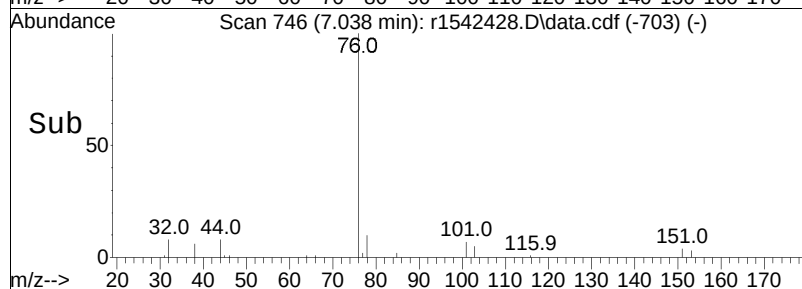
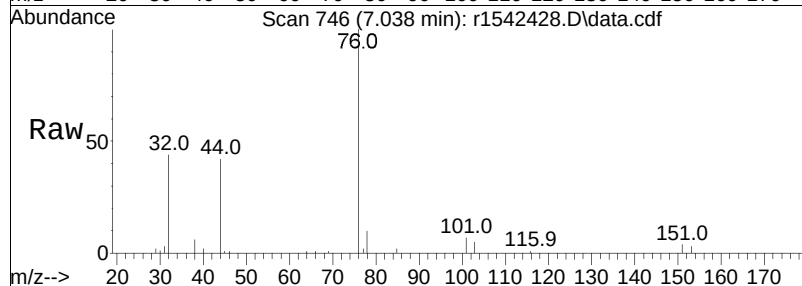
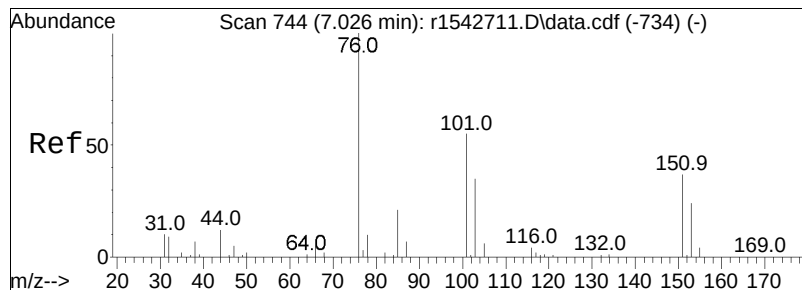




#28
 methylene chloride
 Concen: 0.26 ppbV
 RT: 6.732 min Scan# 695
 Delta R.T. 0.054 min
 Lab File: r1542428.D
 Acq: 1 Feb 2024 12:11 AM

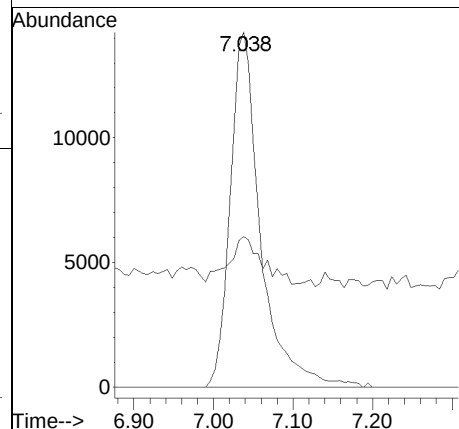
Tgt Ion:	49	84	Ratio	Lower	Upper
Resp:	7072				
Ion Ratio	100	76.4			
			61.2	91.8	

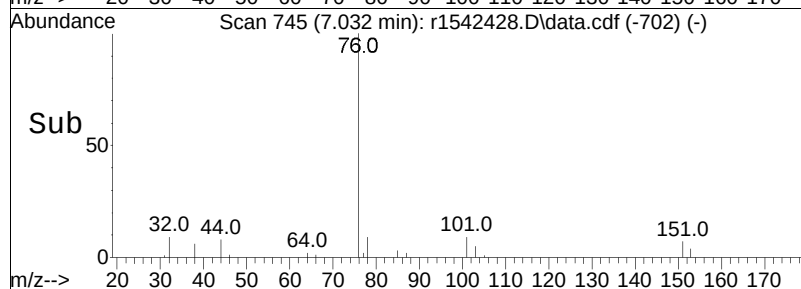
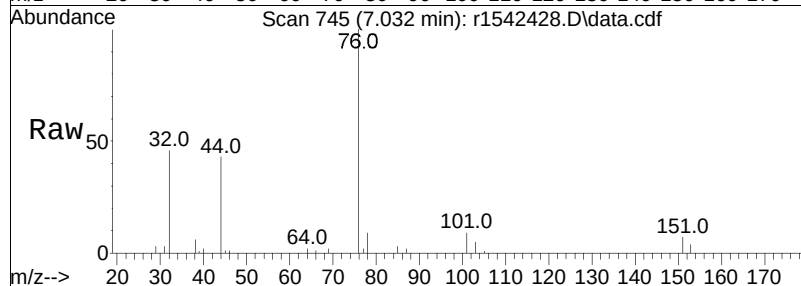
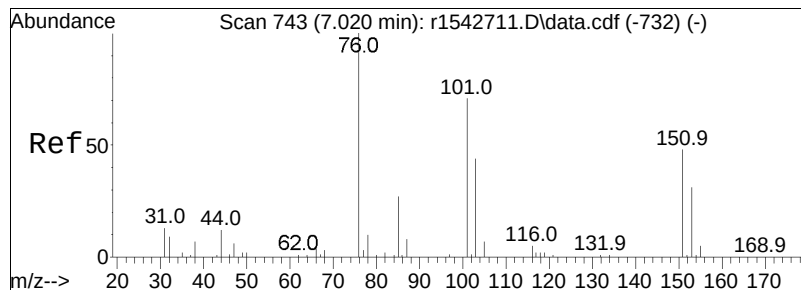




#30
carbon disulfide
Concen: 0.59 ppbV
RT: 7.038 min Scan# 746
Delta R.T. 0.060 min
Lab File: r1542428.D
Acq: 1 Feb 2024 12:11 AM

Tgt Ion	Ratio	Lower	Upper
76	100		
44	42.5	7.8	11.6#





#31

Freon 113

Concen: 0.07 ppbV

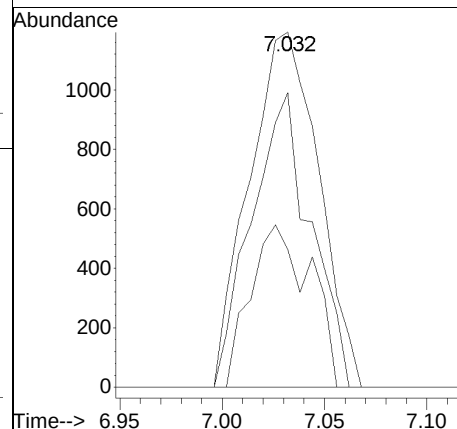
RT: 7.032 min Scan# 745

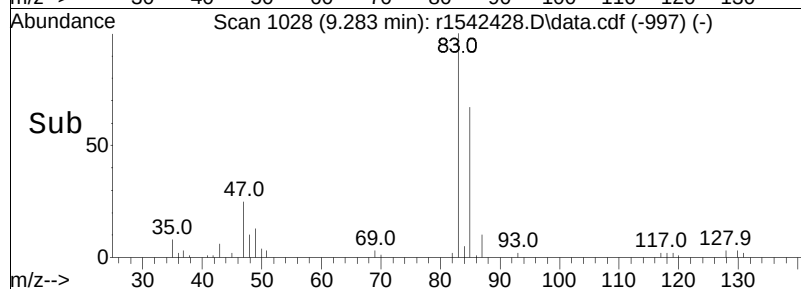
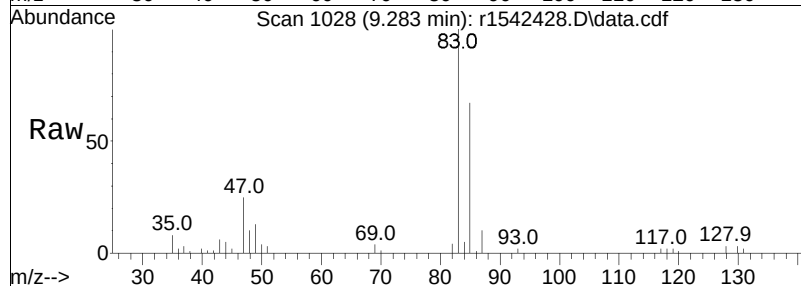
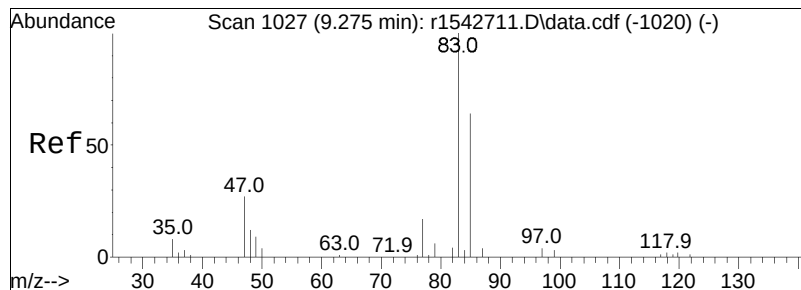
Delta R.T. 0.060 min

Lab File: r1542428.D

Acq: 1 Feb 2024 12:11 AM

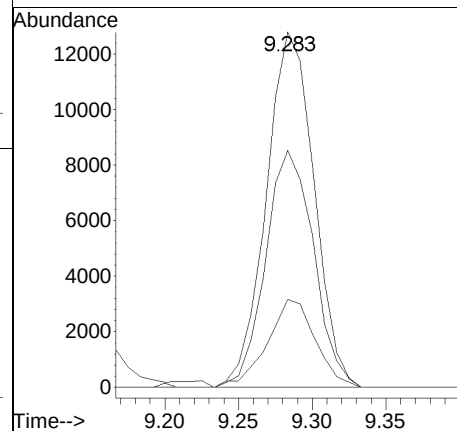
Tgt Ion:	101	Resp:	2825
Ion Ratio	Lower	Upper	
101	100		
85	38.9	35.3	52.9
151	82.9	63.8	95.8

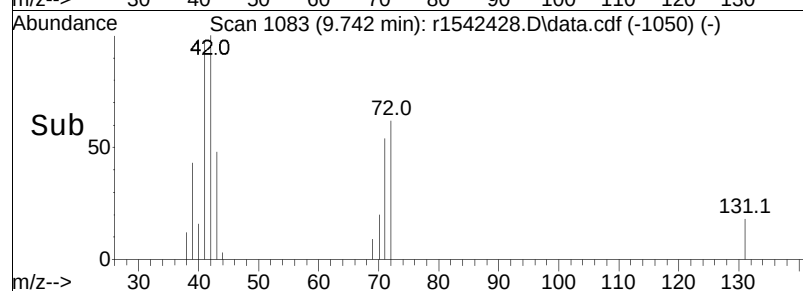
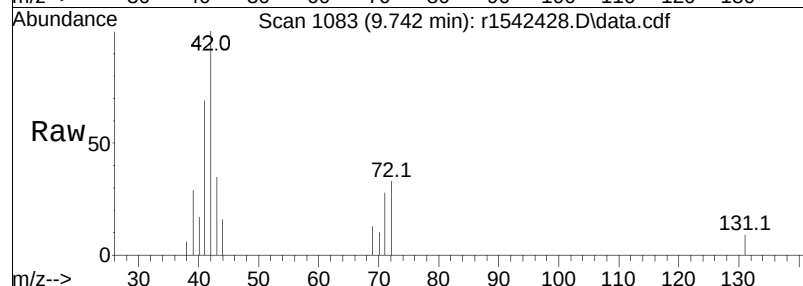
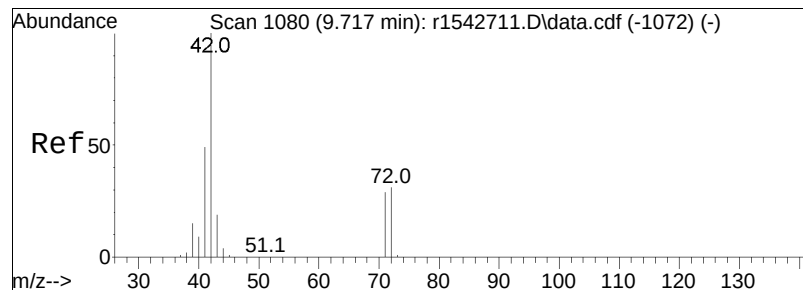




#39
chloroform
Concen: 0.66 ppbV
RT: 9.283 min Scan# 1028
Delta R.T. 0.058 min
Lab File: r1542428.D
Acq: 1 Feb 2024 12:11 AM

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.7	51.5	77.3
47	24.8	15.9	23.9#





#40

Tetrahydrofuran

Concen: 0.49 ppbV

RT: 9.742 min Scan# 1083

Delta R.T. 0.075 min

Lab File: r1542428.D

Acq: 1 Feb 2024 12:11 AM

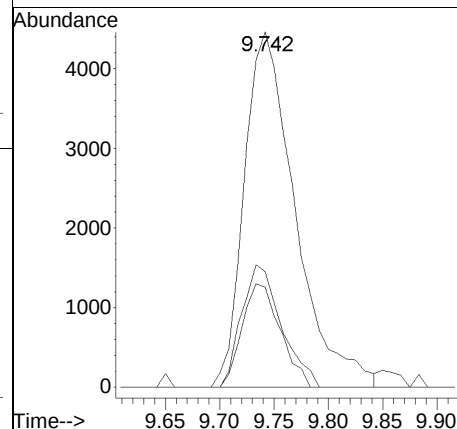
Tgt Ion: 42 Resp: 14568

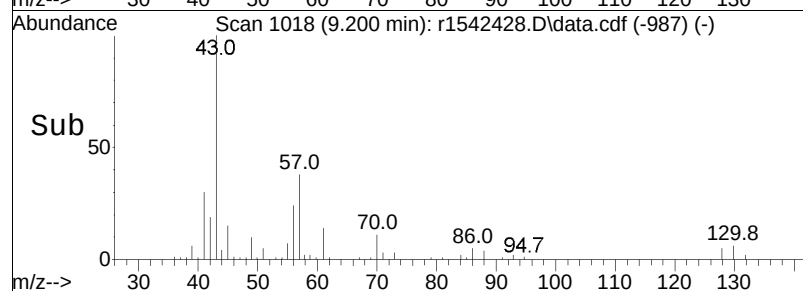
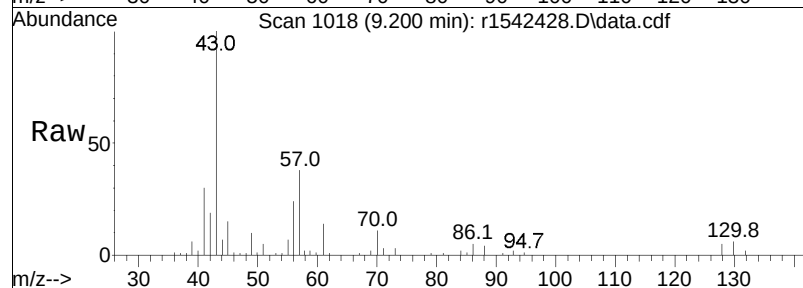
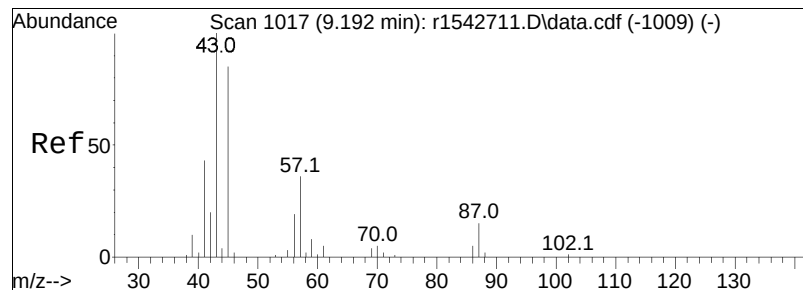
Ion Ratio Lower Upper

42 100

71 28.2 30.6 46.0#

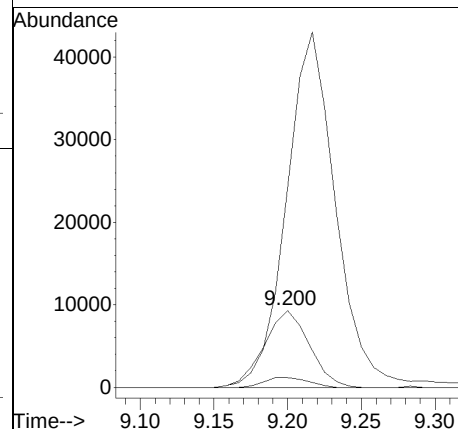
72 32.6 32.5 48.7

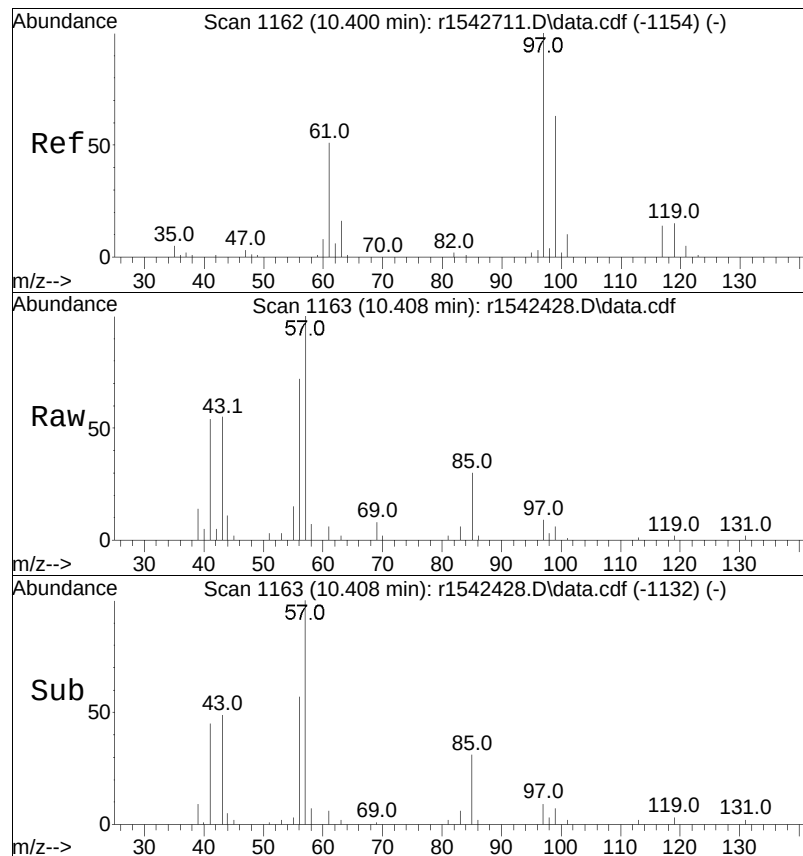




#44
hexane
Concen: 0.48 ppbV
RT: 9.200 min Scan# 1018
Delta R.T. 0.058 min
Lab File: r1542428.D
Acq: 1 Feb 2024 12:11 AM

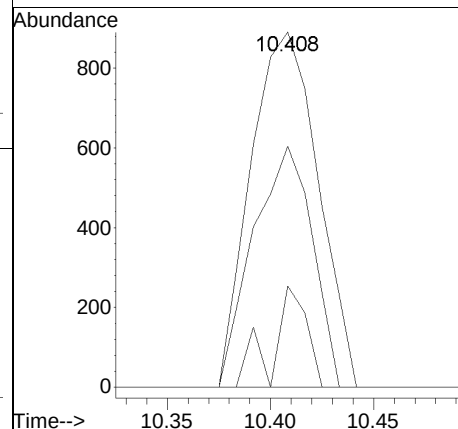
Tgt Ion	Ratio	Lower	Upper
57	100		
43	261.5	146.8	220.2#
86	12.7	12.7	19.1

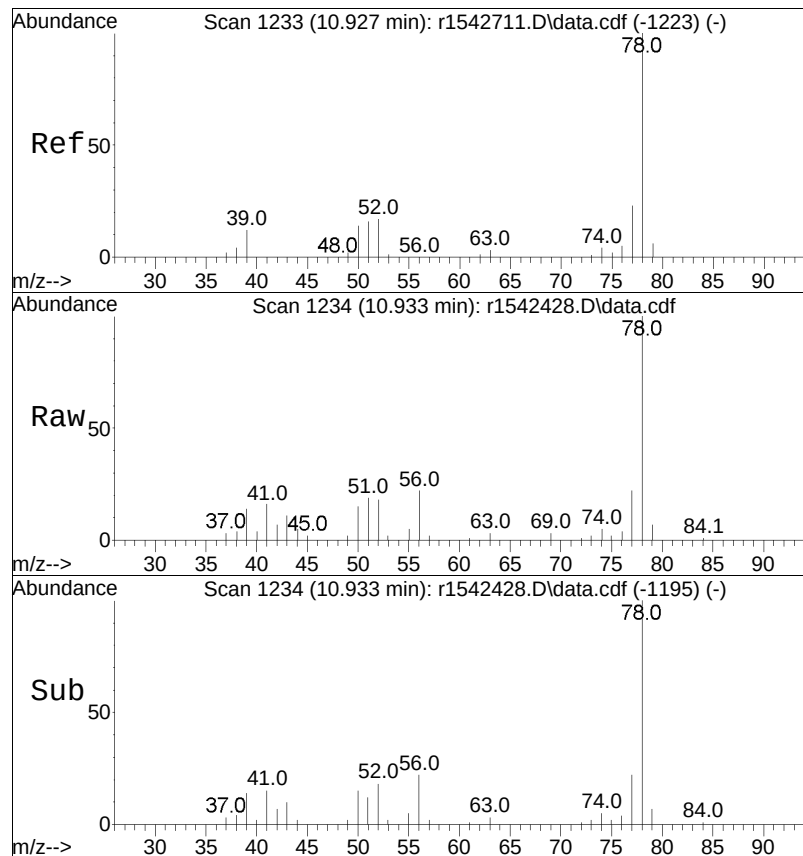




#48
 1,1,1-trichloroethane
 Concen: 0.07 ppbV
 RT: 10.408 min Scan# 1163
 Delta R.T. 0.058 min
 Lab File: r1542428.D
 Acq: 1 Feb 2024 12:11 AM

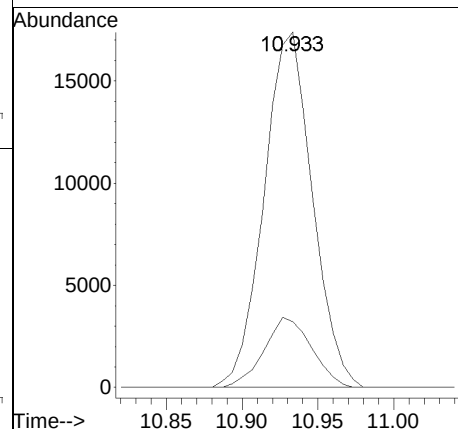
Tgt Ion	Ratio	Lower	Upper
97	100		
61	67.9	40.7	61.1#
119	28.5	11.8	17.8#

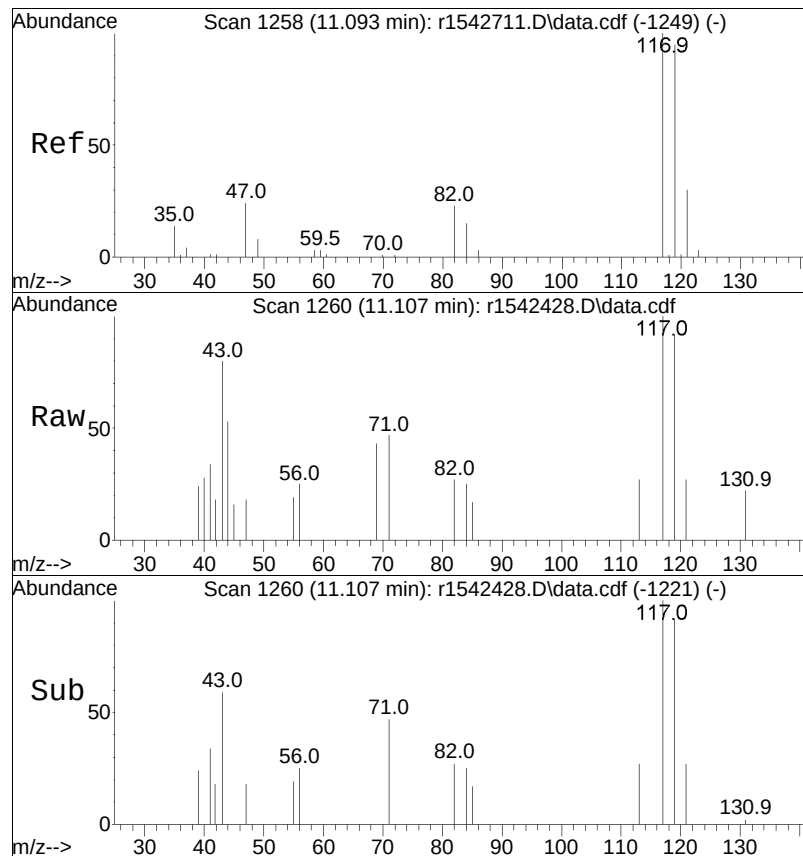




#50
benzene
Concen: 0.50 ppbV
RT: 10.933 min Scan# 1234
Delta R.T. 0.060 min
Lab File: r1542428.D
Acq: 1 Feb 2024 12:11 AM

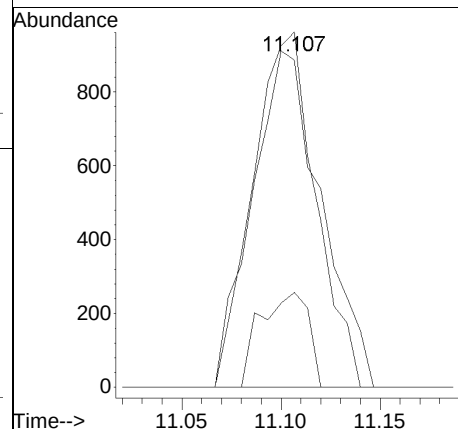
Tgt Ion	Ratio	Lower	Upper
78	100		
52	18.5	14.1	21.1

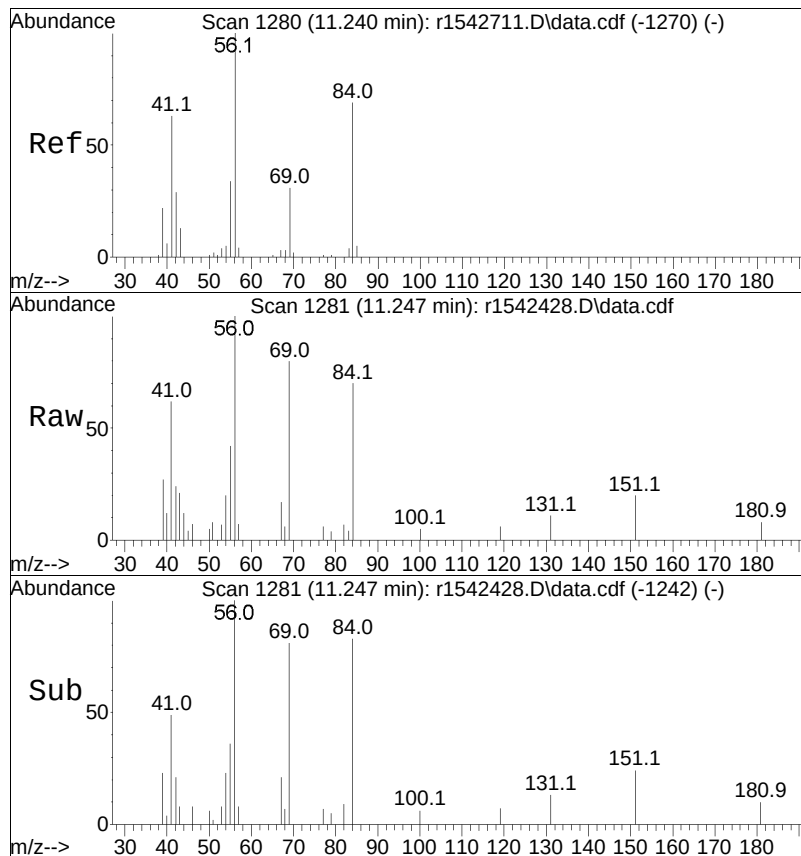




#52
 carbon tetrachloride
 Concen: 0.07 ppbV
 RT: 11.107 min Scan# 1260
 Delta R.T. 0.060 min
 Lab File: r1542428.D
 Acq: 1 Feb 2024 12:11 AM

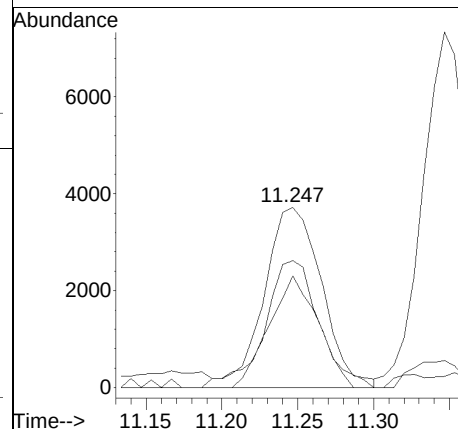
Tgt Ion	Ratio	Lower	Upper
117	100		
119	92.1	77.1	115.7
82	26.7	17.2	25.8#

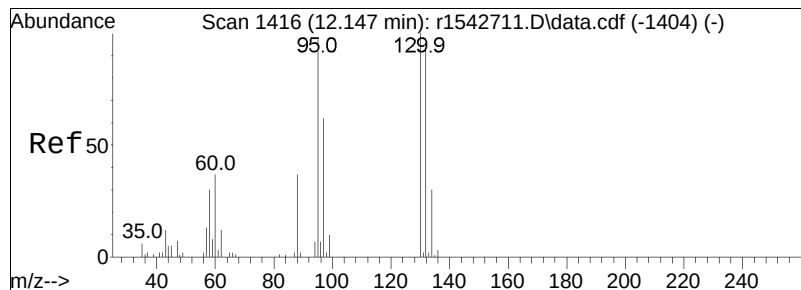




#53
cyclohexane
Concen: 0.22 ppbV
RT: 11.247 min Scan# 1281
Delta R.T. 0.060 min
Lab File: r1542428.D
Acq: 1 Feb 2024 12:11 AM

Tgt	Ion: 56	Resp:	9844
Ion	Ratio	Lower	Upper
56	100		
84	70.5	60.2	90.2
41	62.0	33.5	50.3#





#59

trichloroethene

Concen: 0.25 ppbV

RT: 12.153 min Scan# 1417

Delta R.T. 0.053 min

Lab File: r1542428.D

Acq: 1 Feb 2024 12:11 AM

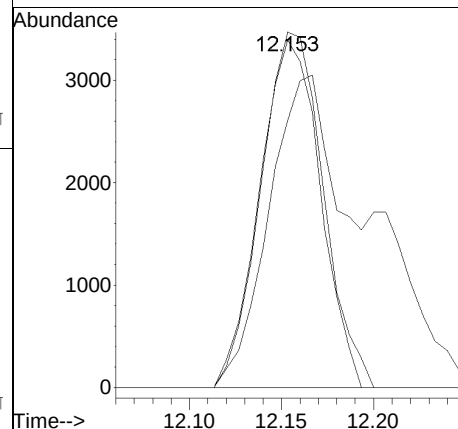
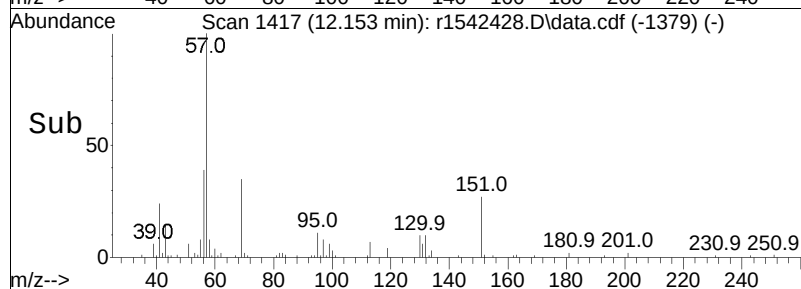
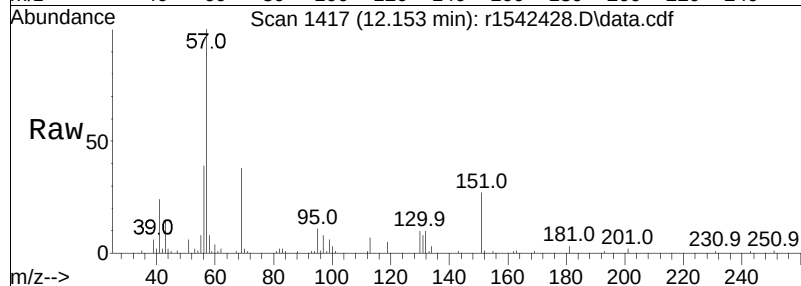
Tgt Ion:130 Resp: 7781

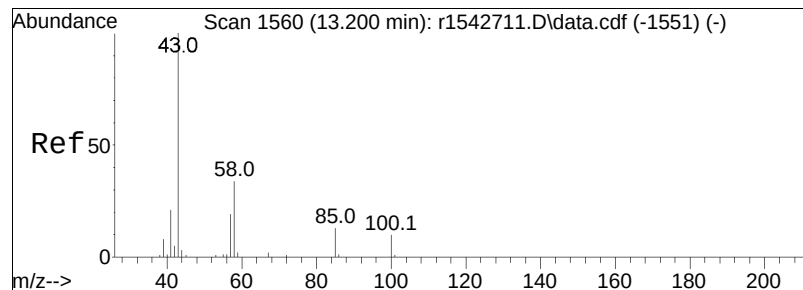
Ion Ratio Lower Upper

130 100

132 102.3 74.7 112.1

97 76.9 46.6 70.0#





#64

4-methyl-2-pentanone

Concen: 0.17 ppbV m

RT: 13.217 min Scan# 1562

Delta R.T. 0.067 min

Lab File: r1542428.D

Acq: 1 Feb 2024 12:11 AM

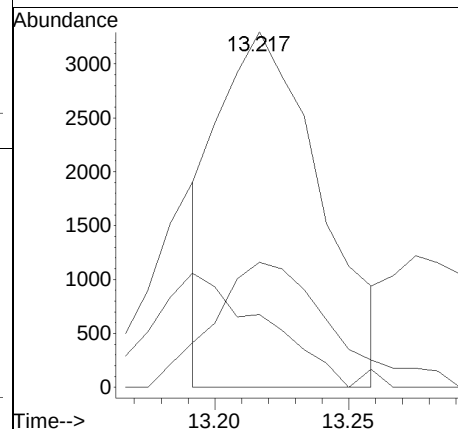
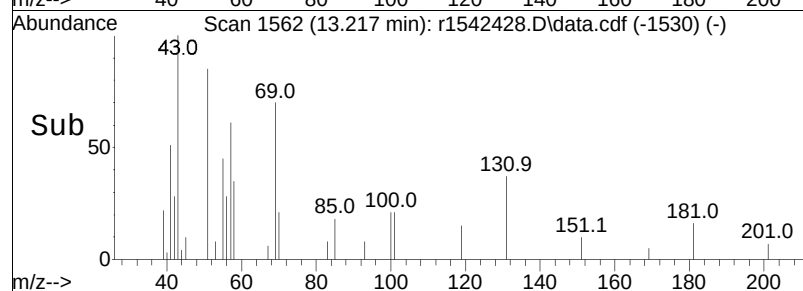
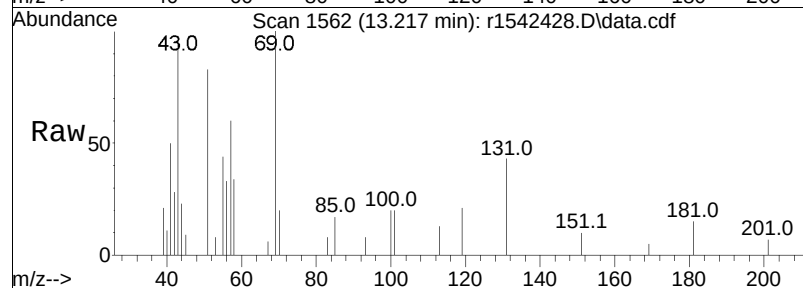
Tgt Ion: 43 Resp: 8833

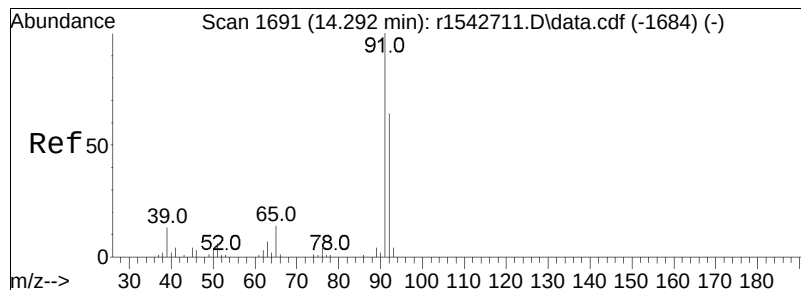
Ion Ratio Lower Upper

43 100

58 35.2 39.5 59.3#

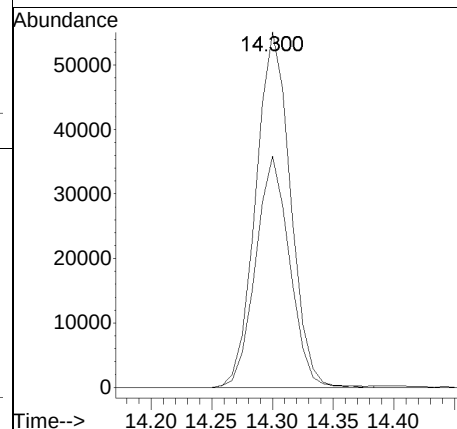
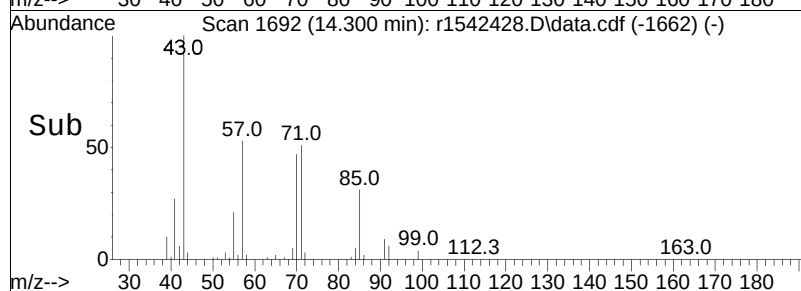
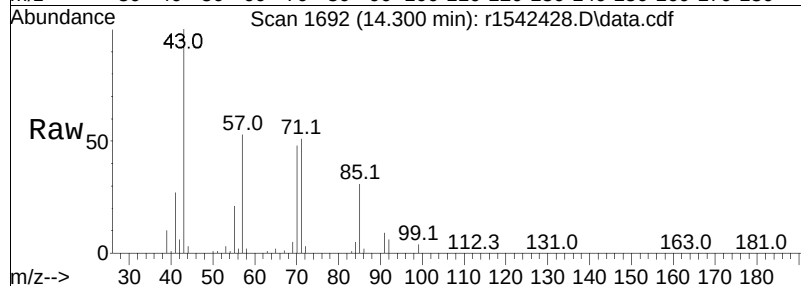
100 20.5 11.8 17.6#

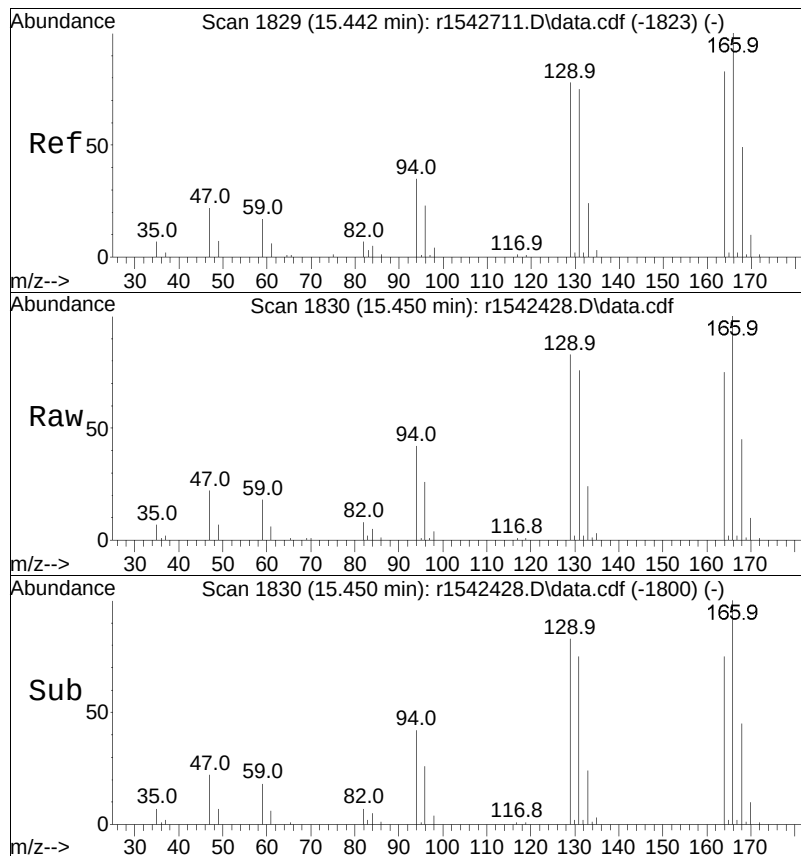




#68
toluene
Concen: 0.98 ppbV
RT: 14.300 min Scan# 1692
Delta R.T. 0.050 min
Lab File: r1542428.D
Acq: 1 Feb 2024 12:11 AM

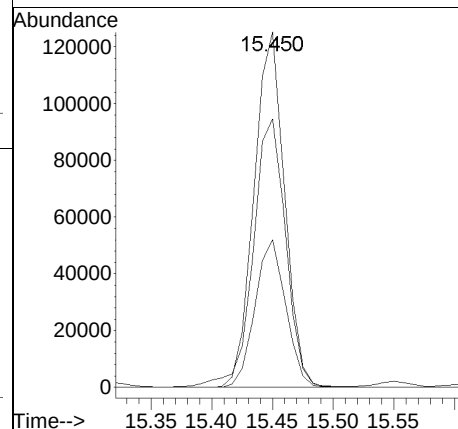
Tgt Ion	Ratio	Lower	Upper
91	100		
92	65.1	51.0	76.4

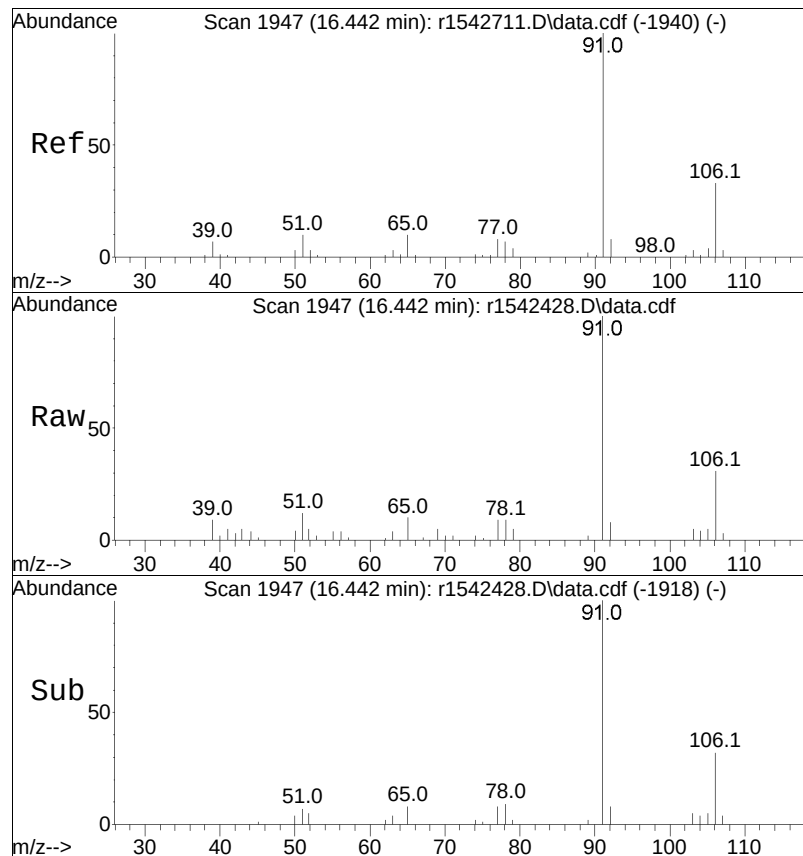




#78
 tetrachloroethene
 Concen: 4.88 ppbV
 RT: 15.450 min Scan# 1830
 Delta R.T. 0.050 min
 Lab File: r1542428.D
 Acq: 1 Feb 2024 12:11 AM

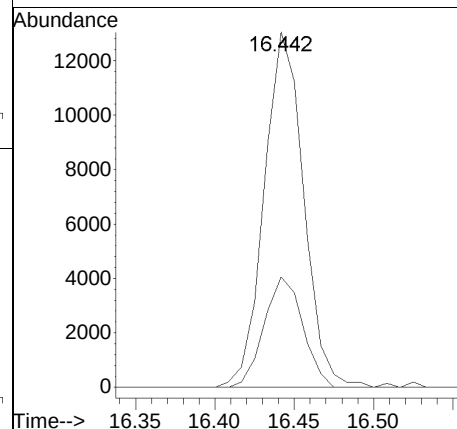
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	219325		
131	75.6		55.6	83.4
94	41.6		25.4	38.2#

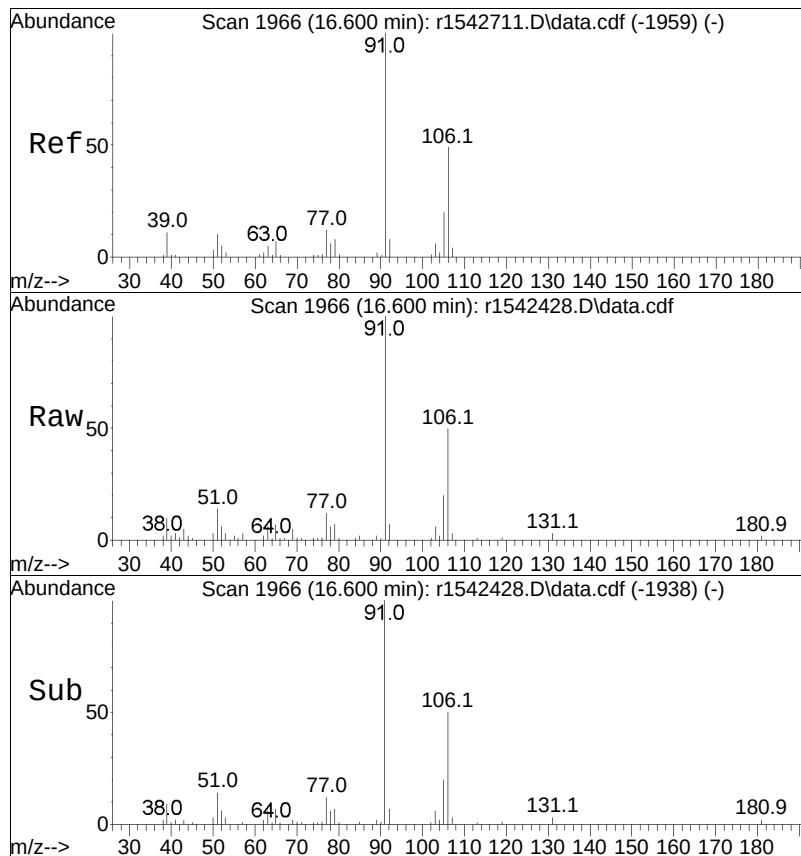




#81
ethylbenzene
Concen: 0.16 ppbV
RT: 16.442 min Scan# 1947
Delta R.T. 0.042 min
Lab File: r1542428.D
Acq: 1 Feb 2024 12:11 AM

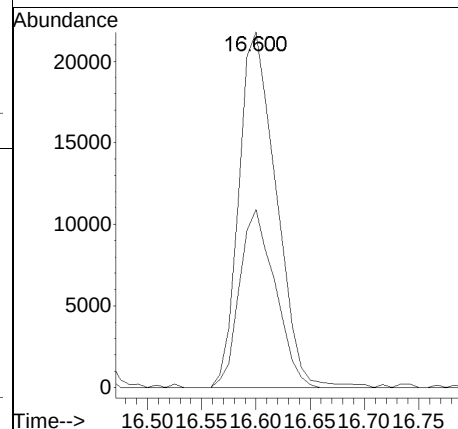
Tgt Ion	Ratio	Lower	Upper
91	100		
106	31.1	27.7	41.5

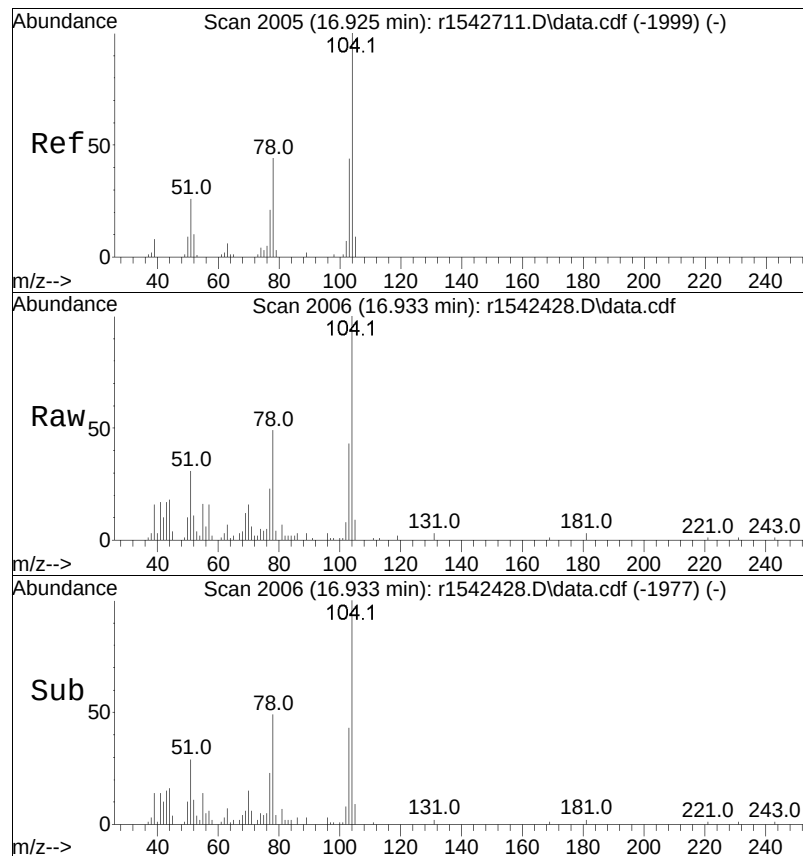




#83
 m+p-xylene
 Concen: 0.46 ppbV
 RT: 16.600 min Scan# 1966
 Delta R.T. 0.033 min
 Lab File: r1542428.D
 Acq: 1 Feb 2024 12:11 AM

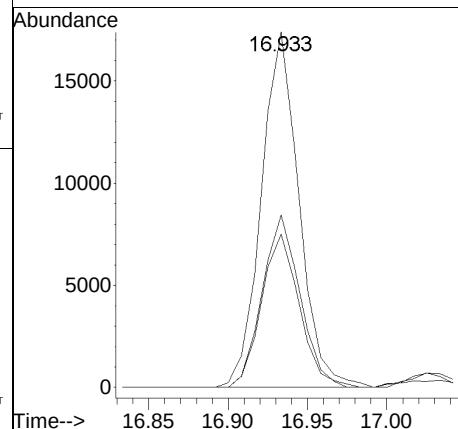
Tgt	Ion	Resp	Lower	Upper
91	100	51966		
106	50.1	42.7	64.1	

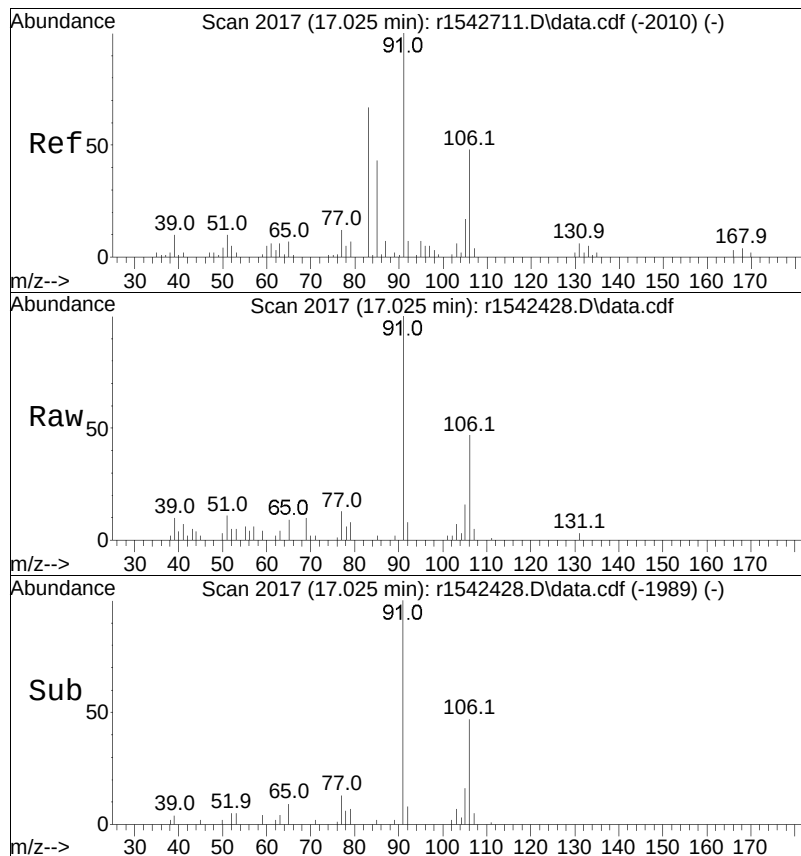




#85
styrene
Concen: 0.31 ppbV
RT: 16.933 min Scan# 2006
Delta R.T. 0.042 min
Lab File: r1542428.D
Acq: 1 Feb 2024 12:11 AM

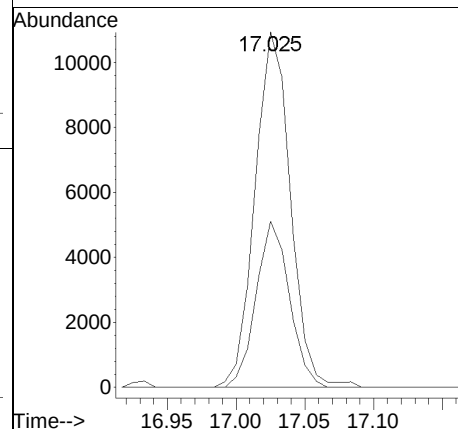
Tgt	Ion:104	Resp:	28744
Ion	Ratio	Lower	Upper
104	100		
103	43.1	34.9	52.3
78	48.5	36.2	54.4

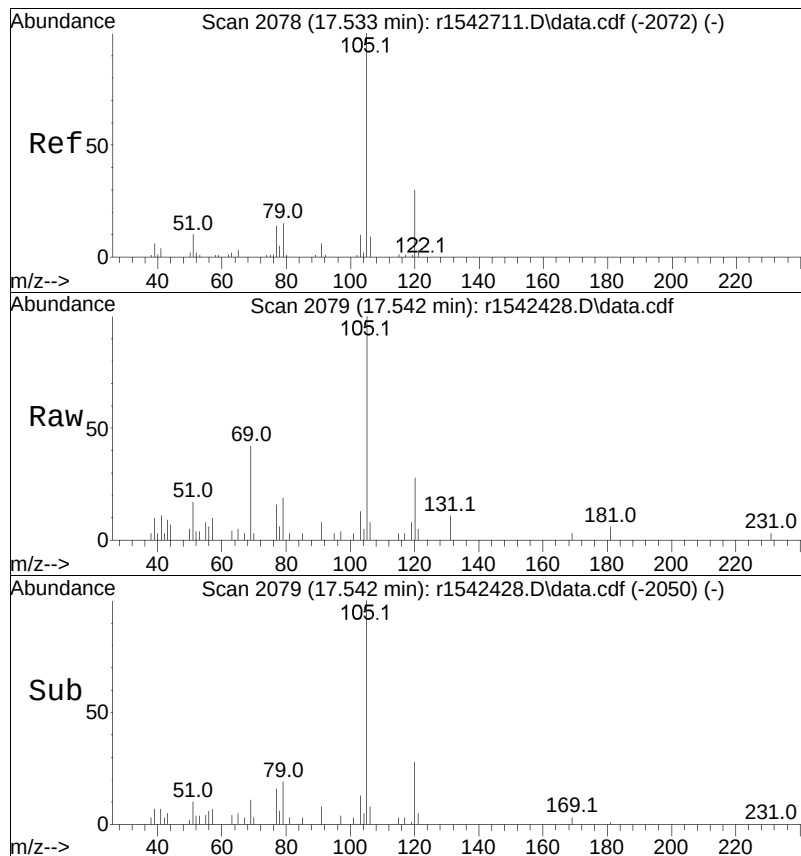




#87
 o-xylene
 Concen: 0.17 ppbV
 RT: 17.025 min Scan# 2017
 Delta R.T. 0.033 min
 Lab File: r1542428.D
 Acq: 1 Feb 2024 12:11 AM

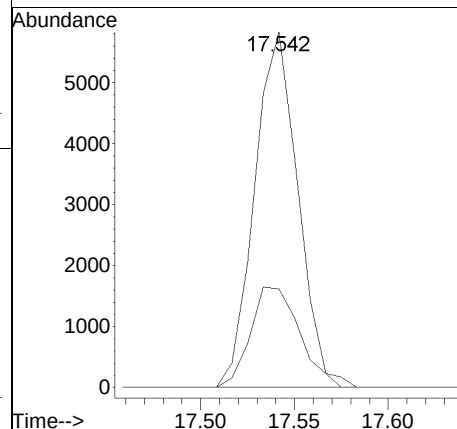
Tgt Ion	Ratio	Lower	Upper
91	100		
106	46.7	40.0	60.0

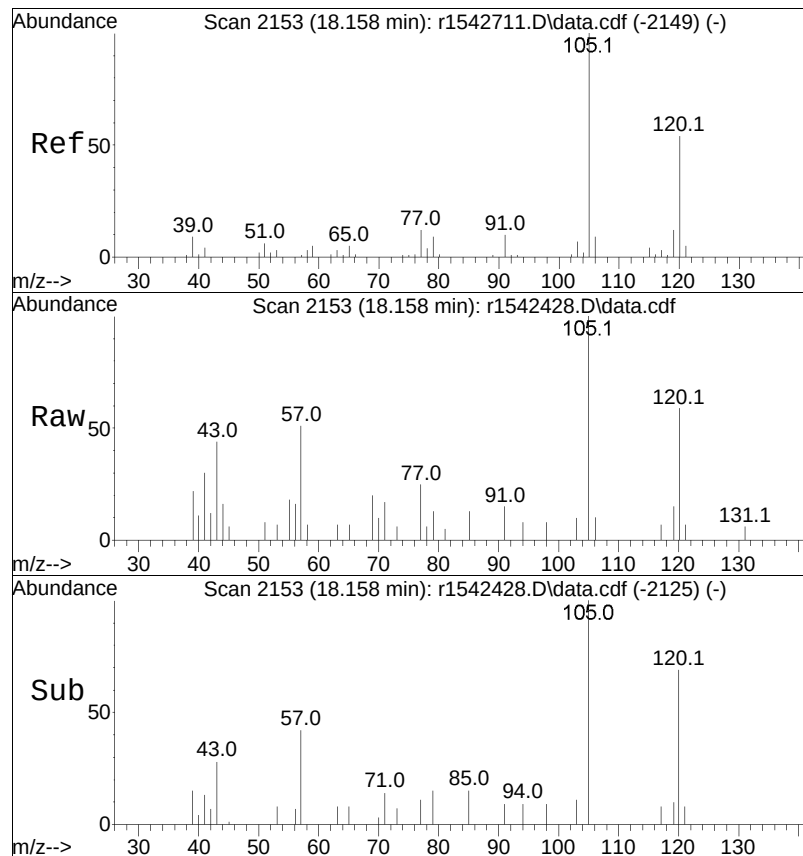




#91
 isopropylbenzene
 Concen: 0.07 ppbV
 RT: 17.542 min Scan# 2079
 Delta R.T. 0.042 min
 Lab File: r1542428.D
 Acq: 1 Feb 2024 12:11 AM

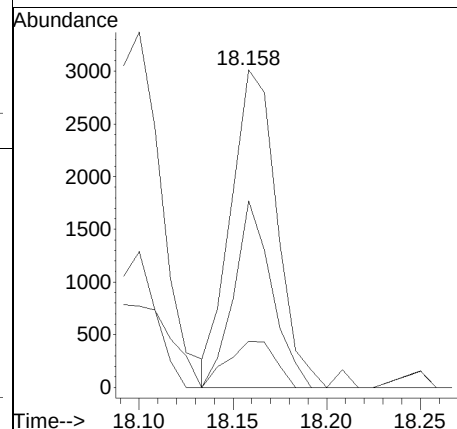
Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.7	26.2	39.4

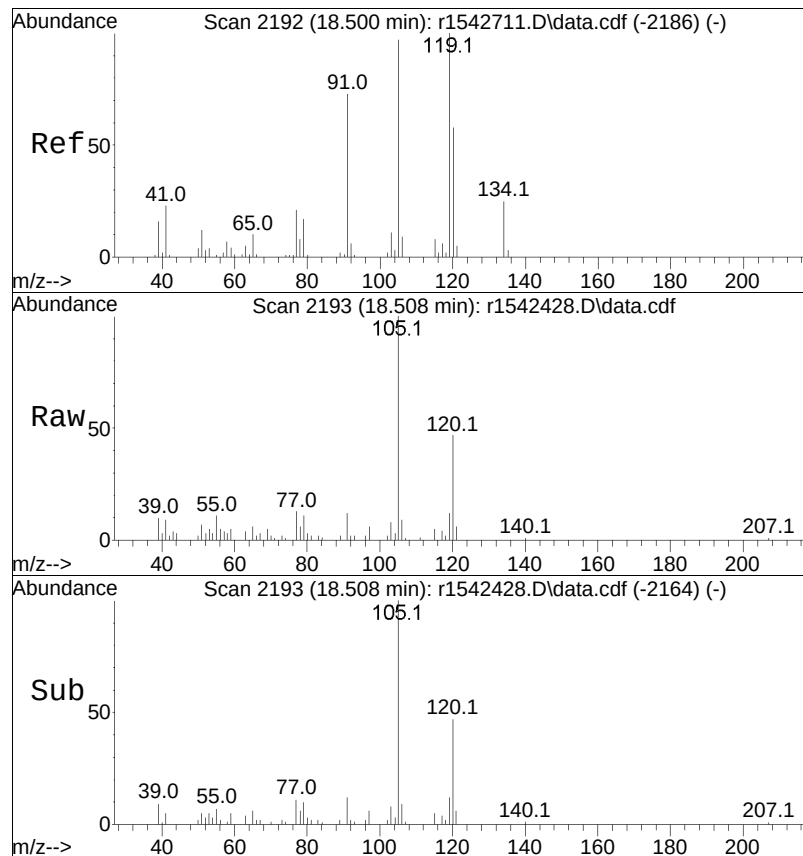




#97
 1,3,5-trimethylbenzene
 Concen: 0.04 ppbV
 RT: 18.158 min Scan# 2153
 Delta R.T. 0.033 min
 Lab File: r1542428.D
 Acq: 1 Feb 2024 12:11 AM

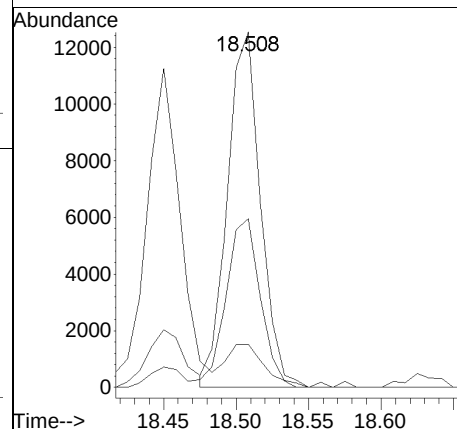
Tgt Ion	Ratio	Lower	Upper
105	100		
120	58.7	46.0	69.0
91	14.6	7.5	11.3

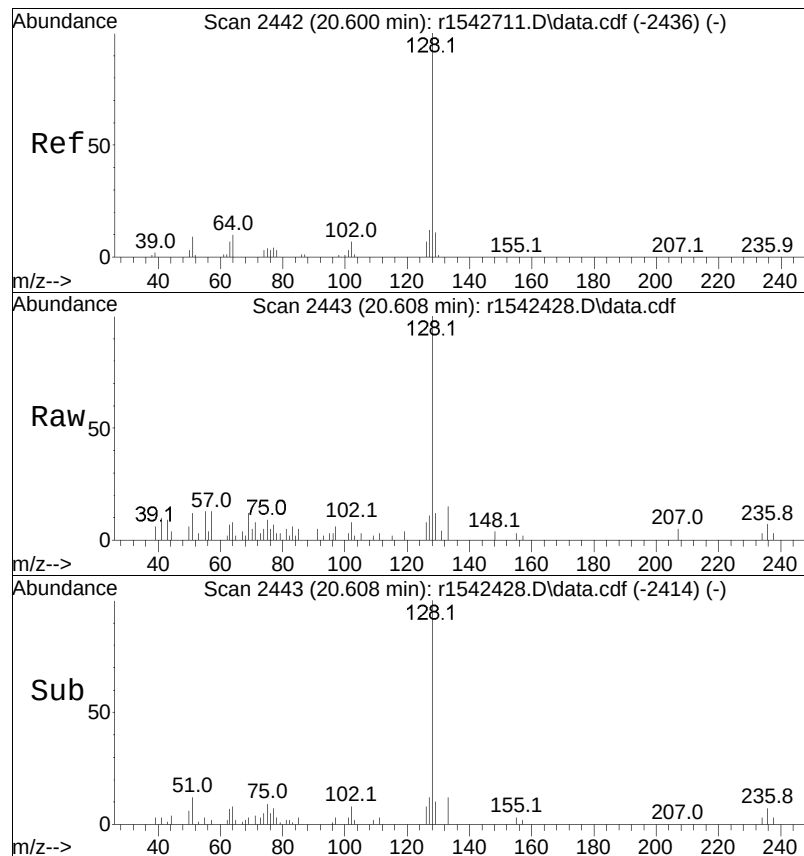




#99
 1,2,4-trimethylbenzene
 Concen: 0.16 ppbV m
 RT: 18.508 min Scan# 2193
 Delta R.T. 0.042 min
 Lab File: r1542428.D
 Acq: 1 Feb 2024 12:11 AM

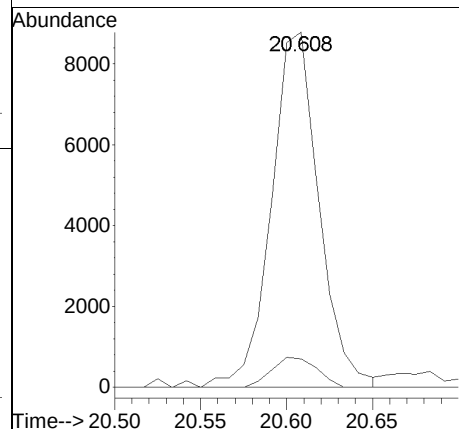
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	19916		
120	47.5		51.8	77.6#
91	12.2		58.3	87.5#





#116
 naphthalene
 Concen: 0.10 ppbV
 RT: 20.608 min Scan# 2443
 Delta R.T. 0.042 min
 Lab File: r1542428.D
 Acq: 1 Feb 2024 12:11 AM

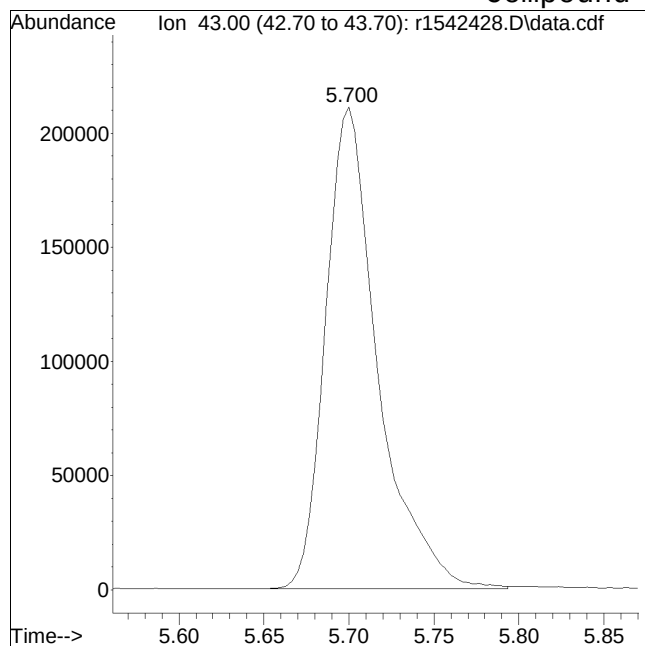
Tgt Ion	Ratio	Resp	Lower	Upper
128	100	16979		
102	8.0		5.4	8.2



Manual Integration Report

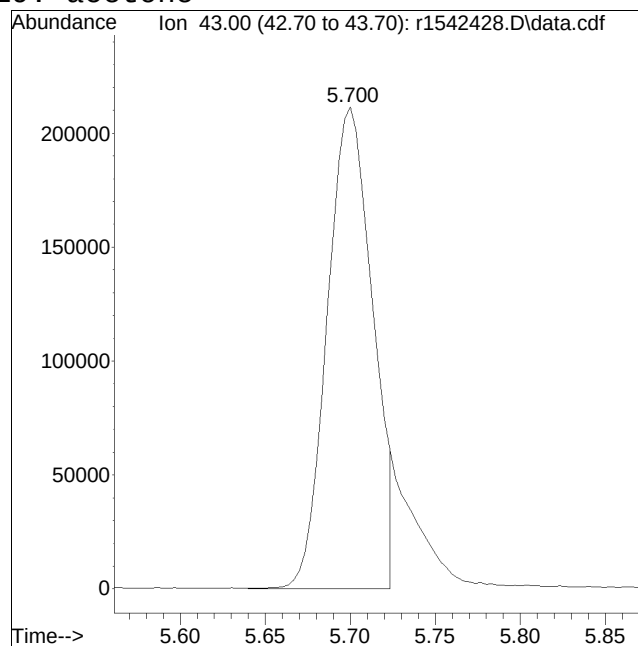
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1542428.D Operator : AIRLAB15:JMB
Date Inj'd : 2/1/2020 0:2: 1 Instrument :
Sample : L2403288-08,3,250,250 Quant Date : 2/1/2024 6:53 am

Compound #19: acetone



Original Peak Response = 452340

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

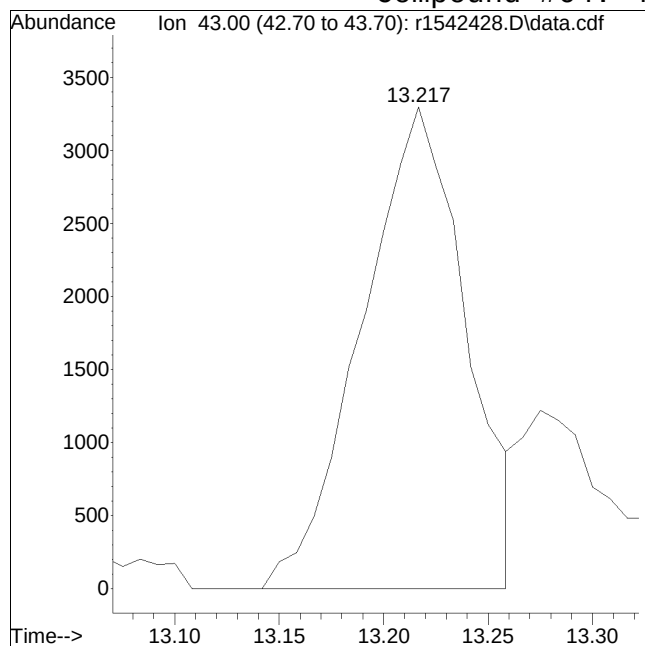


Manual Peak Response = 395207 M6

Manual Integration Report

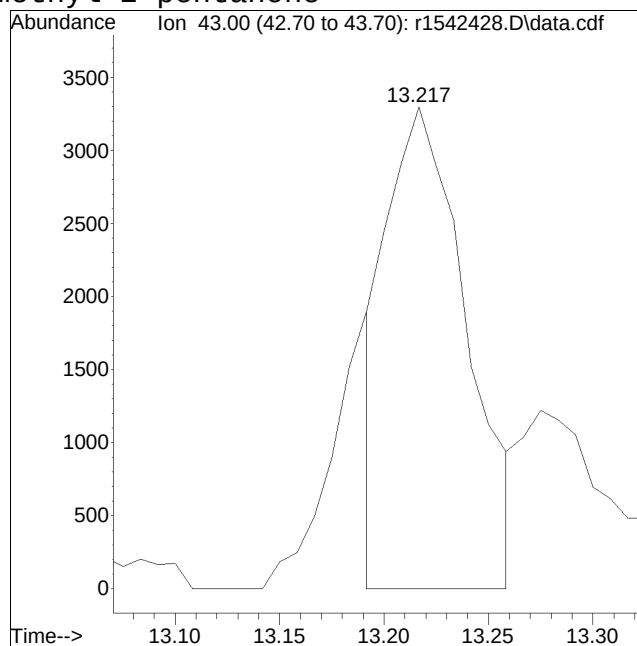
Data Path : 0:\Forensics\Data\Airlab150Method : TFS15_231120.M
Data File : r1542428.D Operator : AIRLAB15:JMB
Date Inj'd : 2/1/2020 0:2: 1 Instrument :
Sample : L2403288-08,3,250,250 Quant Date : 2/1/2024 6:53 am

Compound #64: 4-methyl-2-pentanone



Original Peak Response = 11461

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

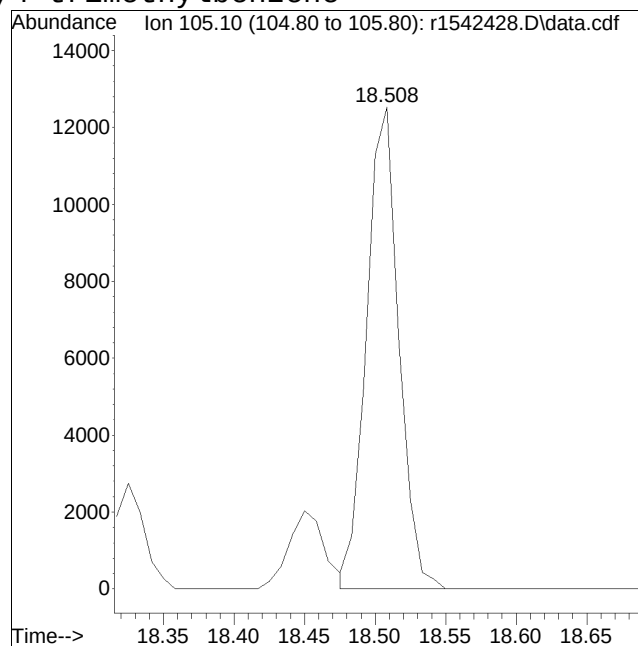
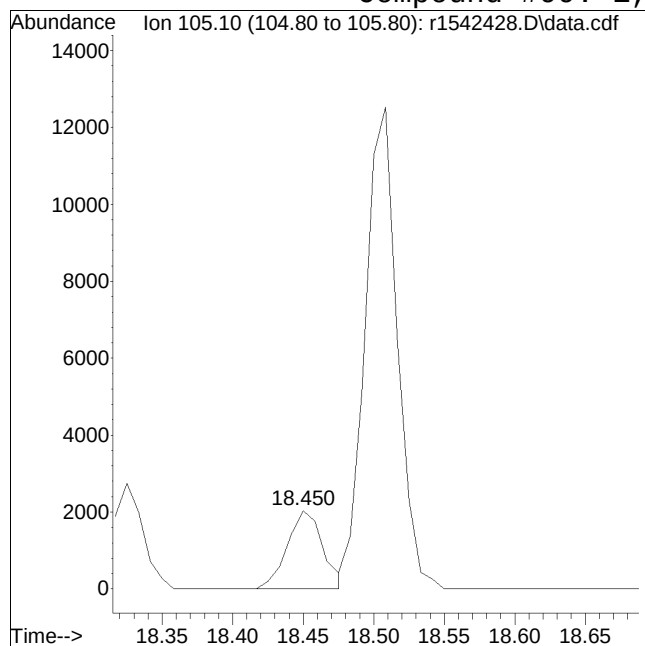


Manual Peak Response = 8833 M6

Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1542428.D Operator : AIRLAB15:JMB
Date Inj'd : 2/1/2020 0:2: 1 Instrument :
Sample : L2403288-08,3,250,250 Quant Date : 2/1/2024 6:53 am

Compound #99: 1,2,4-trimethylbenzene



Original Peak Response = 3587

Manual Peak Response = 19916 M3

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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542429.D
 Acq On : 1 Feb 2024 12:49 AM
 Operator : AIRLAB15:JMB
 Sample : L2403288-10,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 06:54:09 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131T\r1542413.D
 Sub List : PADEP-T015 - .

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

Internal Standards						
1) bromochloromethane	9.133	49	342694	10.000	ppbV	0.06
Standard Area = 375210			Recovery =	91.33%		
43) 1,4-difluorobenzene	11.347	114	908835	10.000	ppbV #	0.05
Standard Area = 971110			Recovery =	93.59%		
67) chlorobenzene-D5	16.058	54	185414	10.000	ppbV	0.05
Standard Area = 187857			Recovery =	98.70%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	4.030	85	19722	0.505	ppbV	100
6) chloromethane	4.204	50	1920	0.131	ppbV	95
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	4.528		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
17) vinyl bromide	0.000		0	N.D.		
18) acrolein	5.577	56	877	0.110	ppbV #	11
19) acetone	5.707	43	202424	10.465	ppbV	87
21) trichlorofluoromethane	5.893	101	7517	0.258	ppbV	97
22) isopropyl alcohol	5.993	45	125080	5.132	ppbV #	96
23) acrylonitrile	6.220	53	3363	0.194	ppbV #	83
26) 1,1-dichloroethene	0.000		0	N.D.		
28) methylene chloride	6.732	49	5776	0.219	ppbV	88
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	7.038	76	15416	0.248	ppbV #	80
31) Freon 113	7.026	101	2503	0.065	ppbV	86
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	8.083		0	N.D.		
37) cis-1,2-dichloroethene	8.958		0	N.D.		
39) chloroform	9.292	83	4749	0.113	ppbV #	94
40) Tetrahydrofuran	9.750	42	9310	0.327	ppbV #	85
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	9.200	57	11266	0.283	ppbV #	34
48) 1,1,1-trichloroethane	0.000		0	N.D.		
50) benzene	10.927	78	11301	0.154	ppbV #	92
52) carbon tetrachloride	11.100	117	1600	0.058	ppbV	95

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542429.D
 Acq On : 1 Feb 2024 12:49 AM
 Operator : AIRLAB15:JMB
 Sample : L2403288-10,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 06:54:09 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

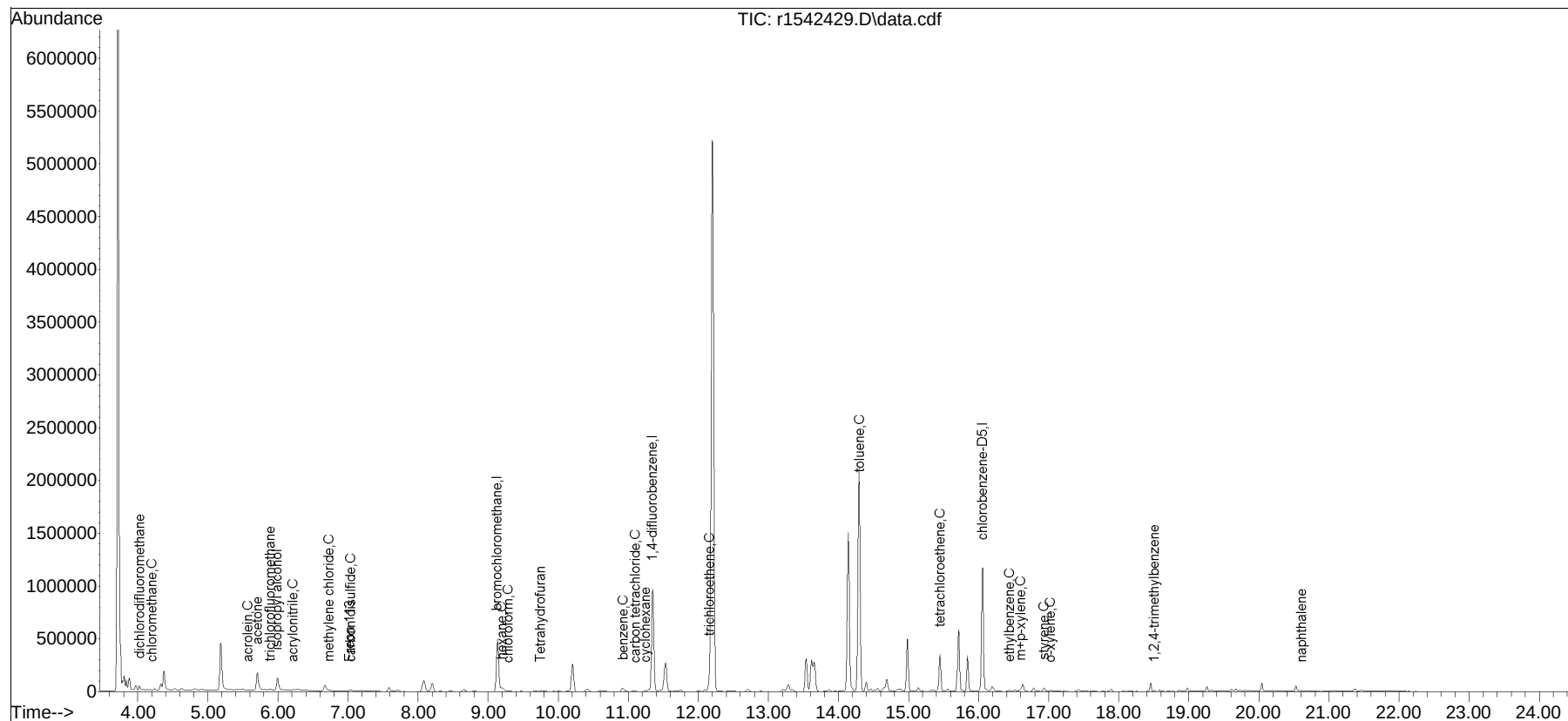
CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131T\r1542413.D
 Sub List : PADEP-T015 - .

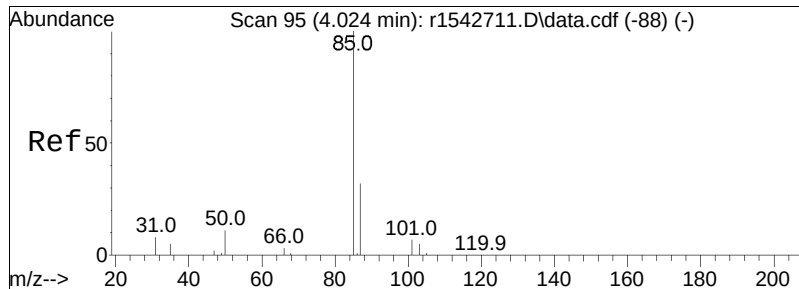
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
53) cyclohexane	11.247	56	4678	0.108	ppbV	#	78
56) 1,2-dichloropropane	0.000		0	N.D.			
57) bromodichloromethane	0.000		0	N.D.	d		
58) 1,4-dioxane	12.167		0	N.D.			
59) trichloroethene	12.160	130	34620	1.193	ppbV		95
61) methyl methacrylate	0.000		0	N.D.	d		
64) 4-methyl-2-pentanone	0.000		0	N.D.	d		
66) 1,1,2-trichloroethane	13.858		0	N.D.			
68) toluene	14.300	91	63611	0.598	ppbV		99
71) 1,3-dichloropropane	0.000		0	N.D.			
74) dibromochloromethane	0.000		0	N.D.			
75) 1,2-dibromoethane	0.000		0	N.D.			
78) tetrachloroethene	15.450	166	105456	2.472	ppbV	#	88
80) chlorobenzene	16.108		0	N.D.			
81) ethylbenzene	16.442	91	10610	0.078	ppbV		95
83) m+p-xylene	16.600	91	21363	0.199	ppbV		91
84) bromoform	0.000		0	N.D.			
85) styrene	16.933	104	12979	0.149	ppbV		95
86) 1,1,2,2-tetrachloroethane	16.942		0	N.D.			
87) o-xylene	17.025	91	7553	0.071	ppbV		99
91) isopropylbenzene	17.542		0	N.D.			
97) 1,3,5-trimethylbenzene	18.158		0	N.D.			
99) 1,2,4-trimethylbenzene	18.508	105	6105M3	0.051	ppbV		
101) Benzyl Chloride	18.633		0	N.D.			
103) 1,4-dichlorobenzene	18.642		0	N.D.			
107) 1,2-dichlorobenzene	0.000		0	N.D.			
115) 1,2,4-trichlorobenzene	0.000		0	N.D.			
116) naphthalene	20.608	128	5501	0.034	ppbV		96

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

```
Data Path : 0:\Forensics\Data\AirLab15\2024\01\0131T\
Data File : r1542429.D
Acq On    : 1 Feb 2024 12:49 AM
Operator  : AIRLAB15:JMB
Sample    : L2403288-10,3,250,250
Misc      : WG1880230,ICAL20574
ALS Vial  : 0 Sample Multiplier: 1
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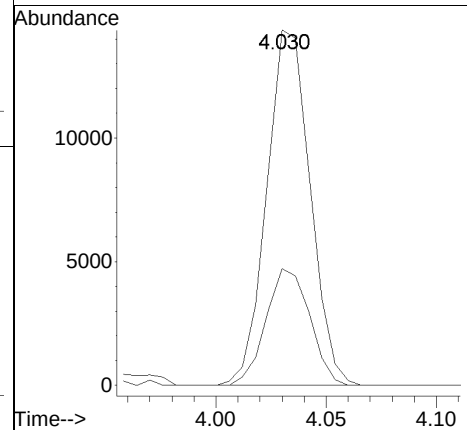
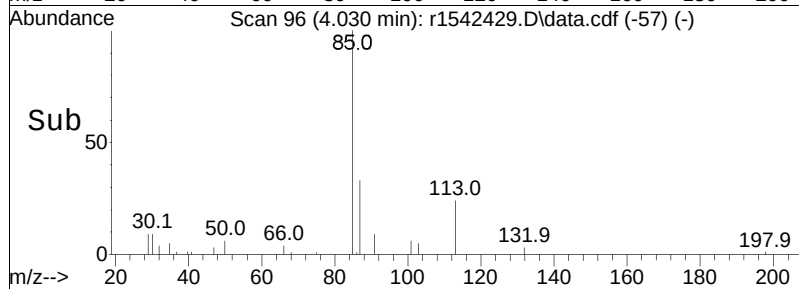
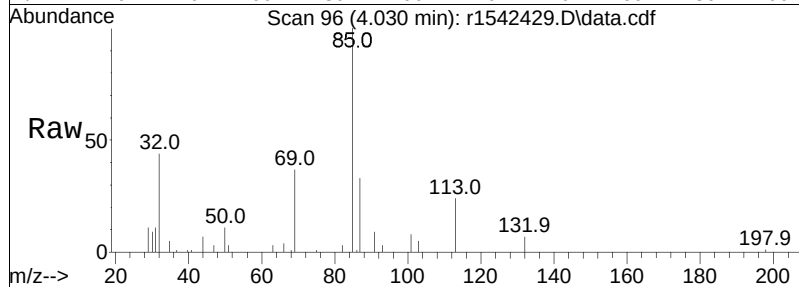
Quant Time: Feb 01 06:54:09 2024
Quant Method : 0:\Forensics\Data\AirLab15\2024\01\0131T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 15:43:21 2023
Response via : Initial Calibration

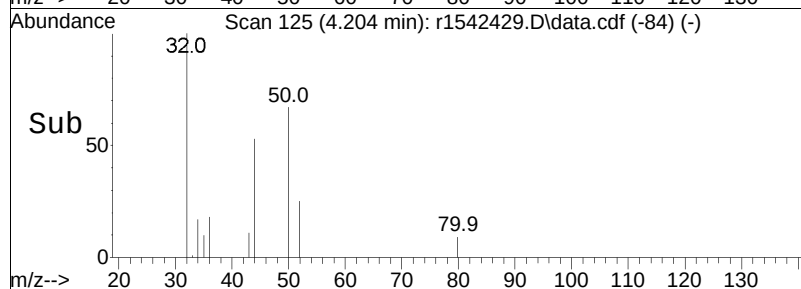
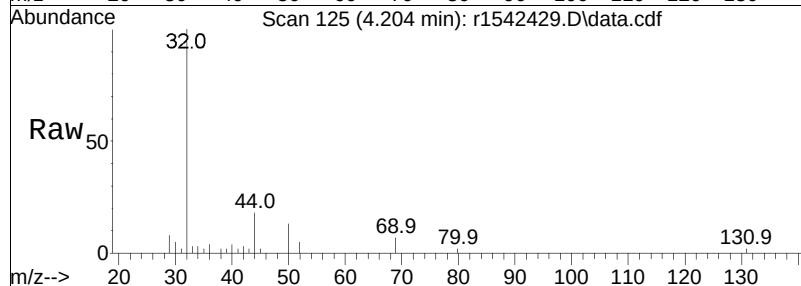
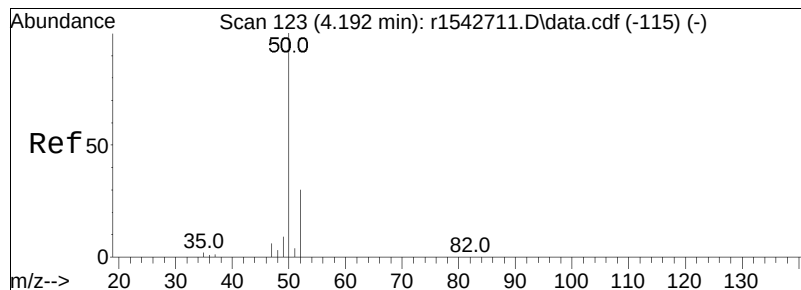




#5
dichlorodifluoromethane
Concen: 0.51 ppbV
RT: 4.030 min Scan# 96
Delta R.T. 0.036 min
Lab File: r1542429.D
Acq: 1 Feb 2024 12:49 AM

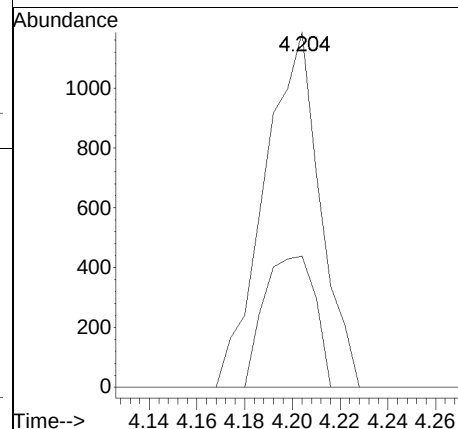
Tgt Ion: 85 Resp: 19722
Ion Ratio Lower Upper
85 100
87 32.8 26.1 39.1

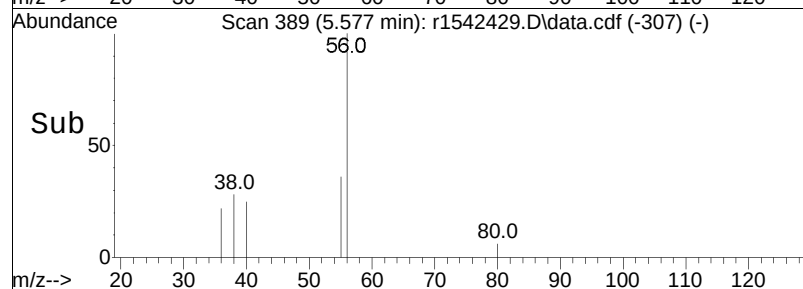
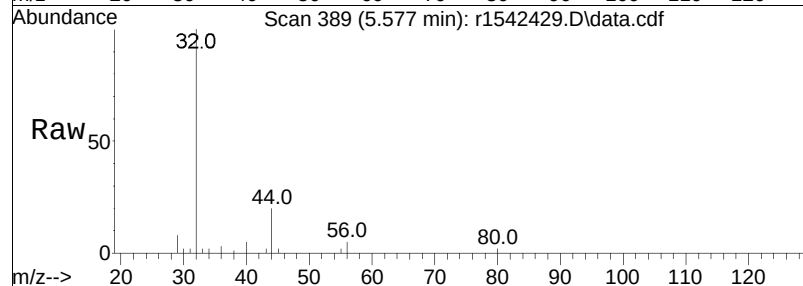
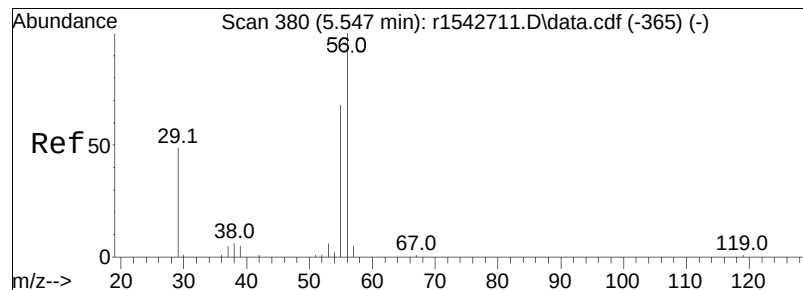




#6
 chloromethane
 Concen: 0.13 ppbV
 RT: 4.204 min Scan# 125
 Delta R.T. 0.048 min
 Lab File: r1542429.D
 Acq: 1 Feb 2024 12:49 AM

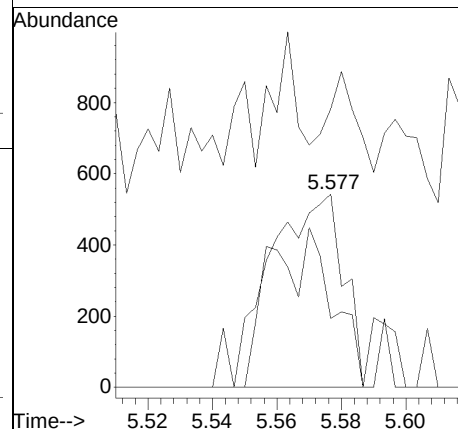
Tgt Ion	Ratio	Lower	Upper
50	100		
52	36.9	27.4	41.2

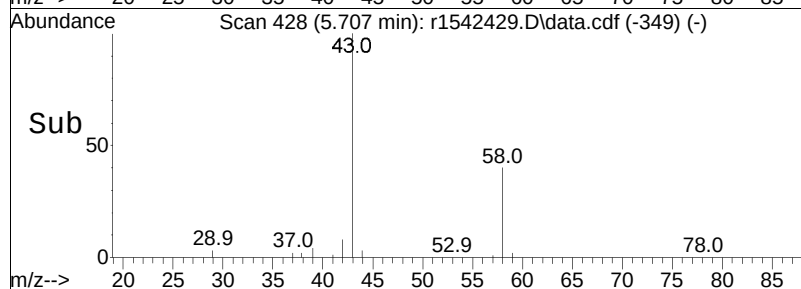
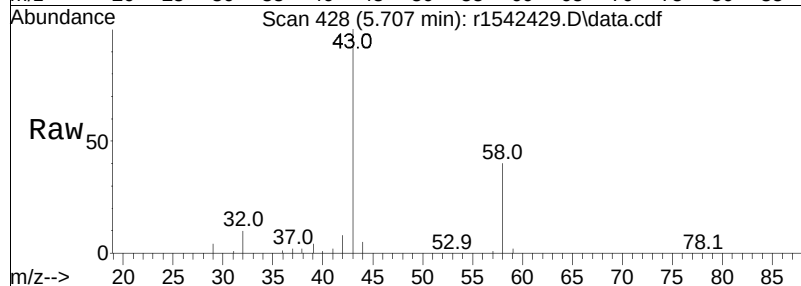
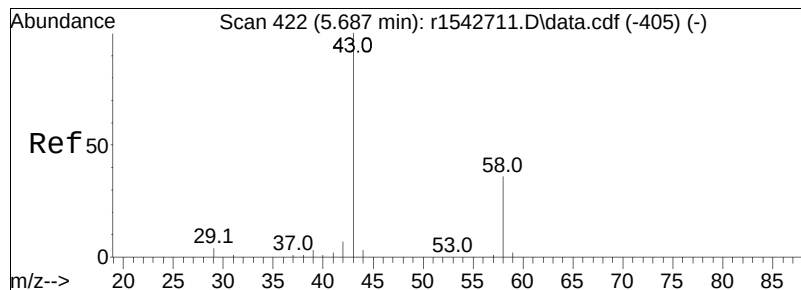




#18
acrolein
Concen: 0.11 ppbV
RT: 5.577 min Scan# 389
Delta R.T. 0.073 min
Lab File: r1542429.D
Acq: 1 Feb 2024 12:49 AM

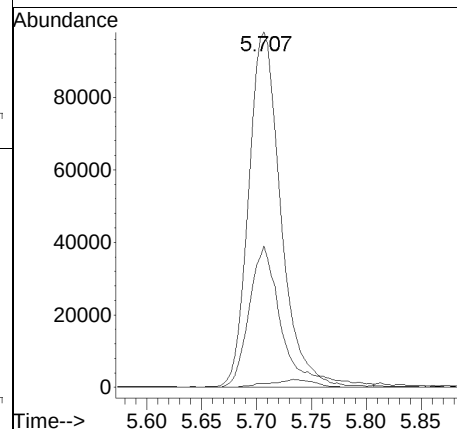
Tgt Ion	Ratio	Lower	Upper
56	100		
55	35.7	52.3	78.5#
29	144.0	28.6	43.0#

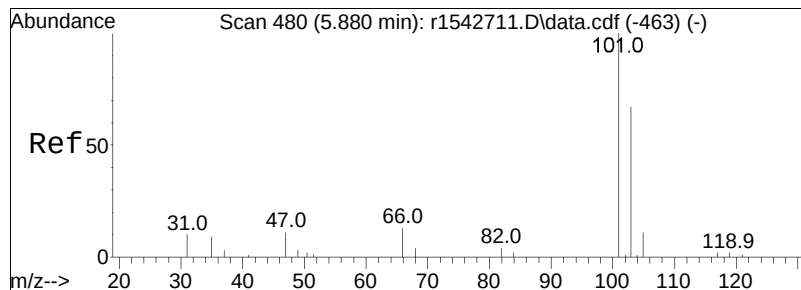




#19
acetone
Concen: 10.46 ppbV
RT: 5.707 min Scan# 428
Delta R.T. 0.063 min
Lab File: r1542429.D
Acq: 1 Feb 2024 12:49 AM

Tgt Ion	Ratio	Lower	Upper
43	100		
58	39.8	39.0	58.4
57	1.2	0.9	1.3





#21

trichlorofluoromethane

Concen: 0.26 ppbV

RT: 5.893 min Scan# 484

Delta R.T. 0.057 min

Lab File: r1542429.D

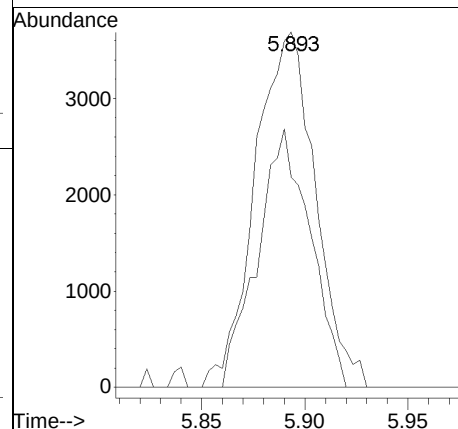
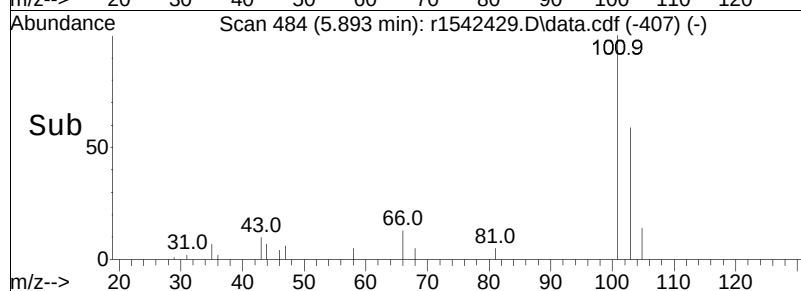
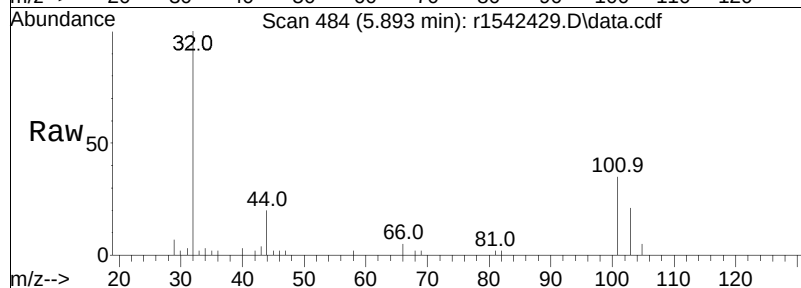
Acq: 1 Feb 2024 12:49 AM

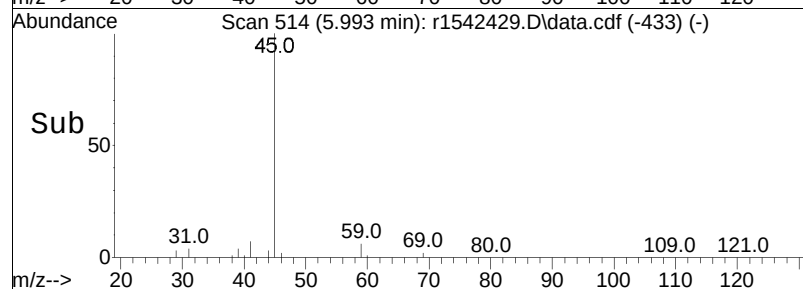
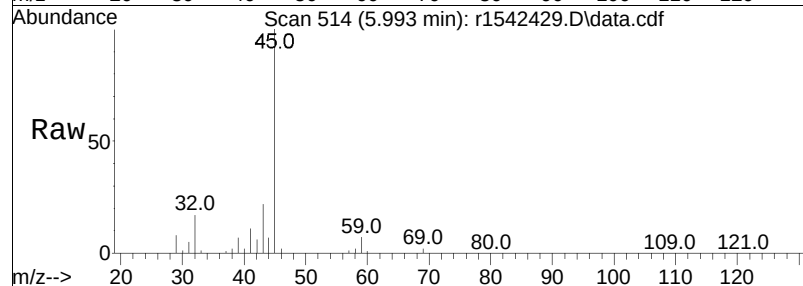
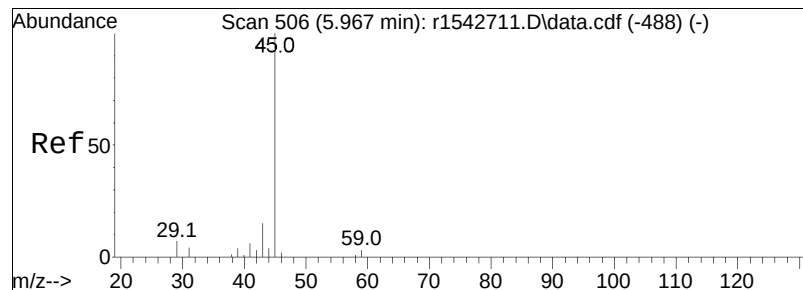
Tgt Ion:101 Resp: 7517

Ion Ratio Lower Upper

101 100

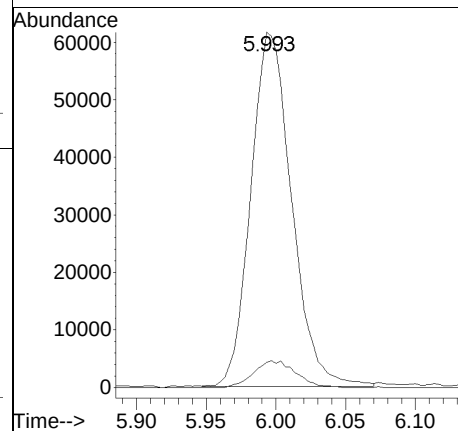
103 59.2 49.4 74.0

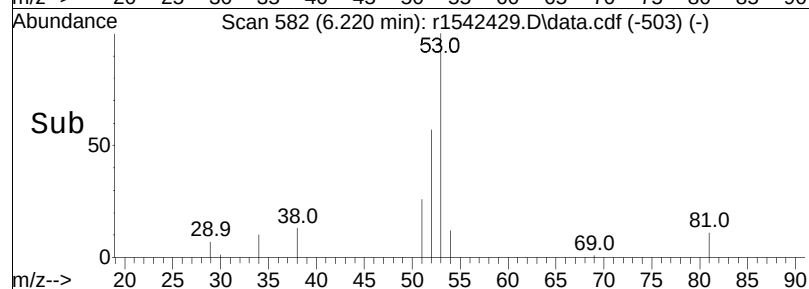
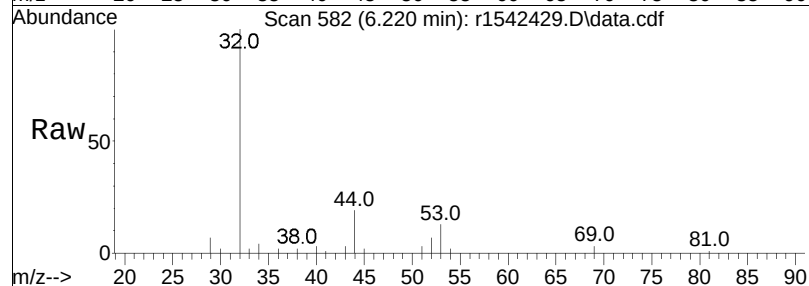
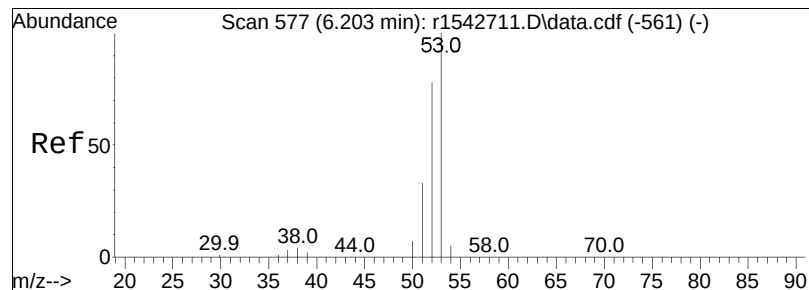




#22
isopropyl alcohol
Concen: 5.13 ppbV
RT: 5.993 min Scan# 514
Delta R.T. 0.070 min
Lab File: r1542429.D
Acq: 1 Feb 2024 12:49 AM

Tgt	Ion	Resp	Lower	Upper
45	100			
59	7.1		4.6	6.8#





#23

acrylonitrile

Concen: 0.19 ppbV

RT: 6.220 min Scan# 582

Delta R.T. 0.063 min

Lab File: r1542429.D

Acq: 1 Feb 2024 12:49 AM

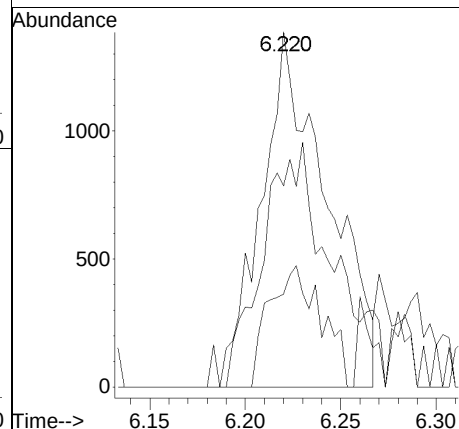
Tgt Ion: 53 Resp: 3363

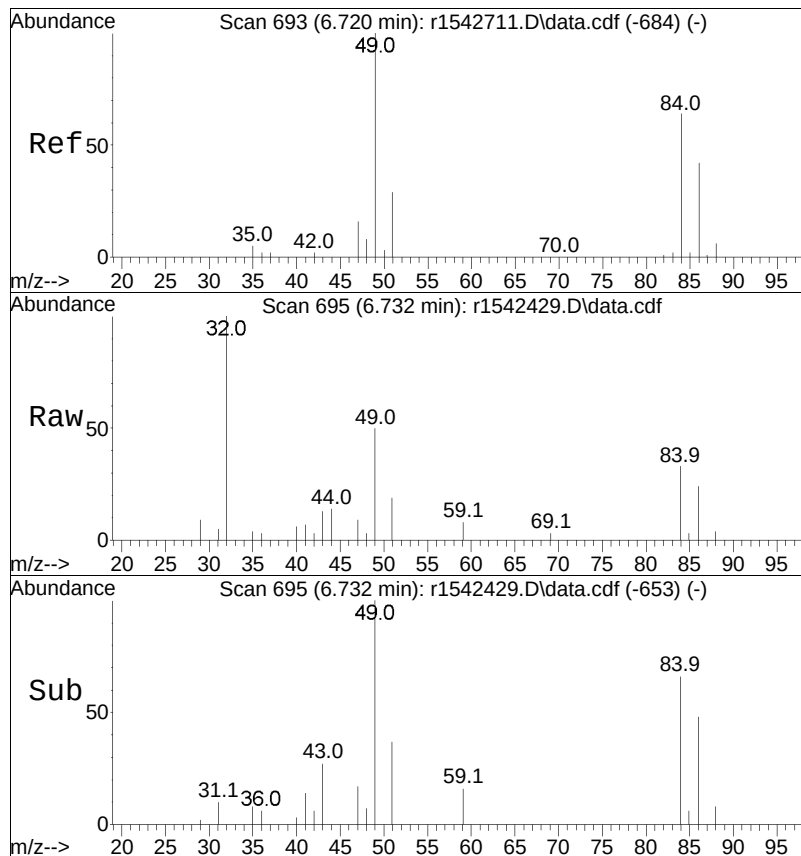
Ion Ratio Lower Upper

53 100

52 56.7 59.1 88.7#

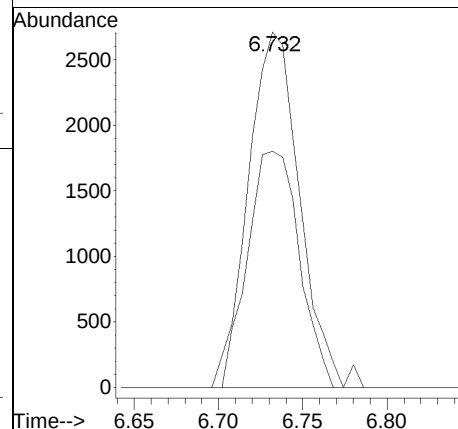
51 26.3 24.5 36.7

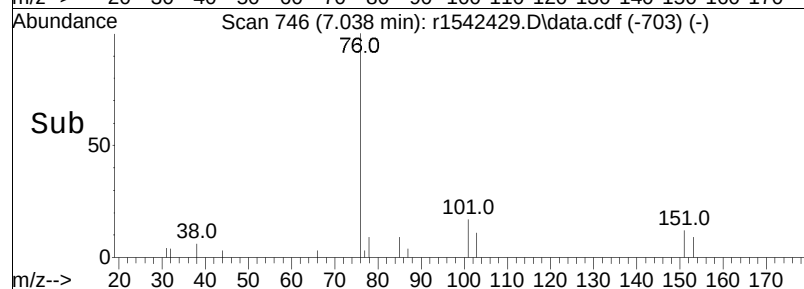
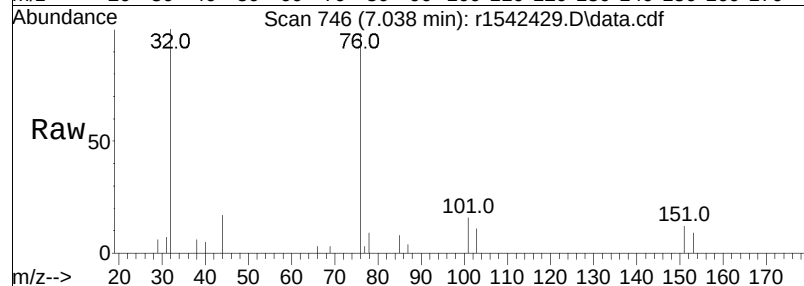
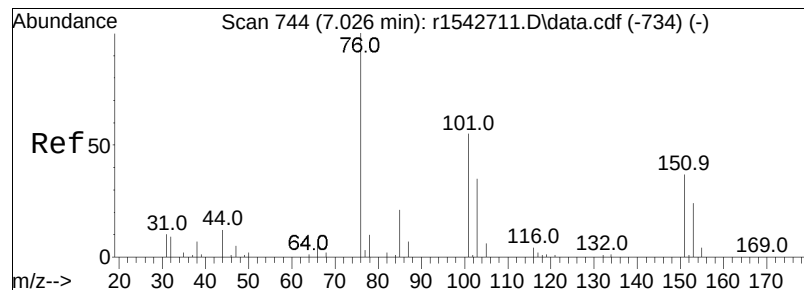




#28
 methylene chloride
 Concen: 0.22 ppbV
 RT: 6.732 min Scan# 695
 Delta R.T. 0.054 min
 Lab File: r1542429.D
 Acq: 1 Feb 2024 12:49 AM

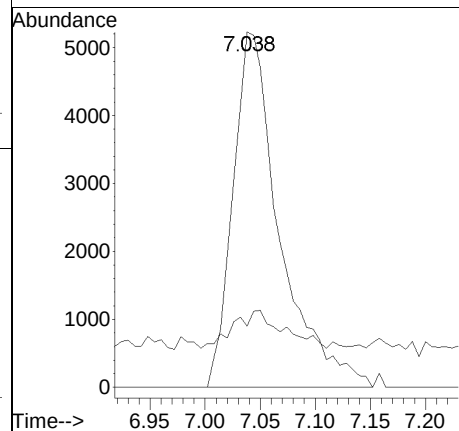
Tgt Ion:	49	84	Ratio	Lower	Upper
Resp:	5776				
Ion Ratio	100	66.5			
			61.2		91.8

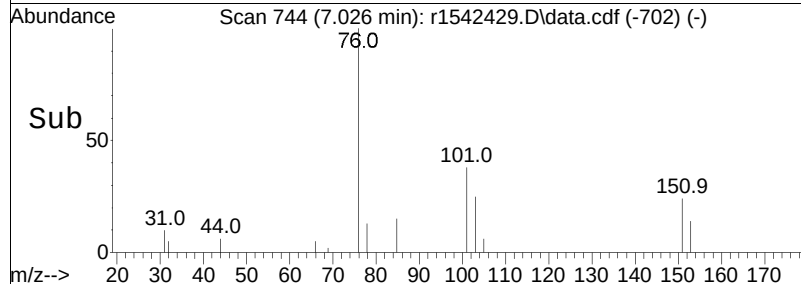
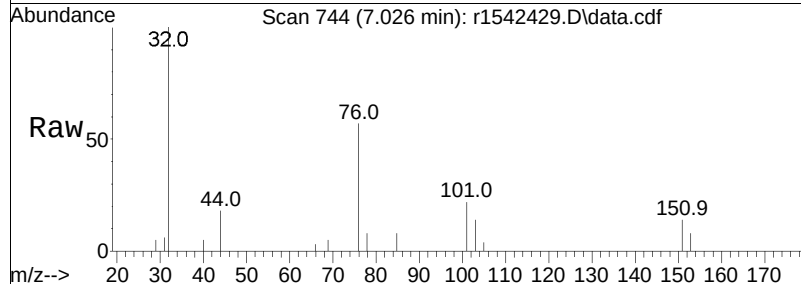
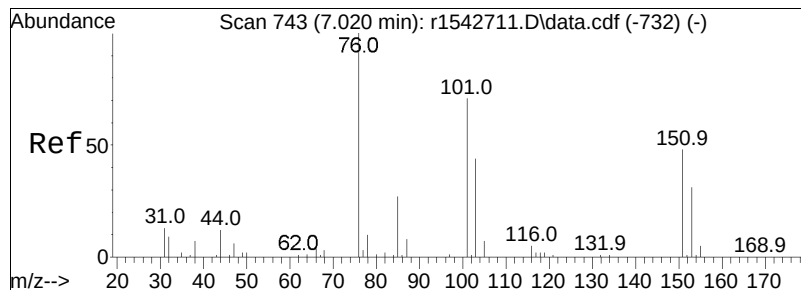




#30
 carbon disulfide
 Concen: 0.25 ppbV
 RT: 7.038 min Scan# 746
 Delta R.T. 0.060 min
 Lab File: r1542429.D
 Acq: 1 Feb 2024 12:49 AM

Tgt Ion:	76	44	Ratio	100	17.2	Resp:	15416	Lower	7.8	Upper	11.6#
Ion	76	44	Ratio	100	17.2	Resp:	15416	Lower	7.8	Upper	11.6#





#31

Freon 113

Concen: 0.07 ppbV

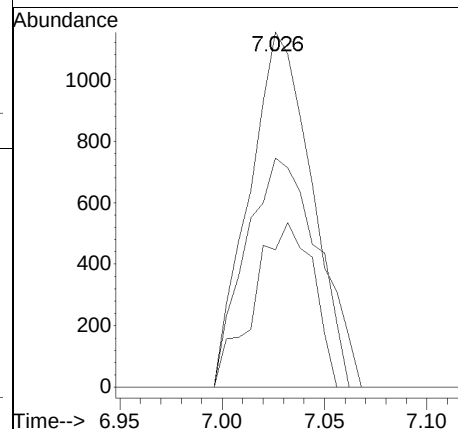
RT: 7.026 min Scan# 744

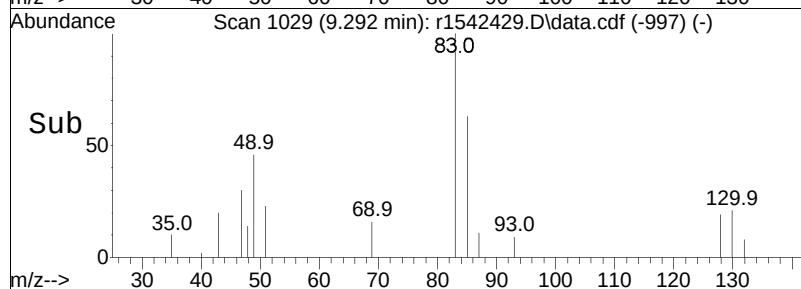
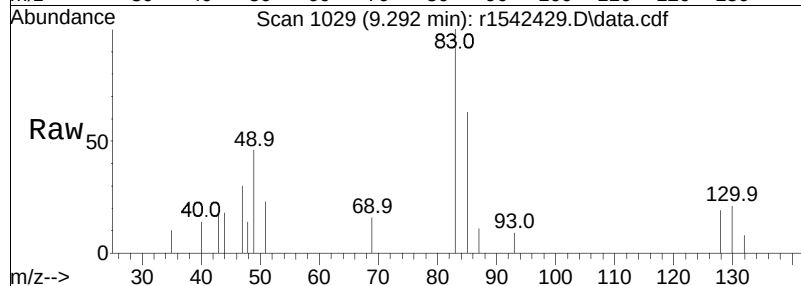
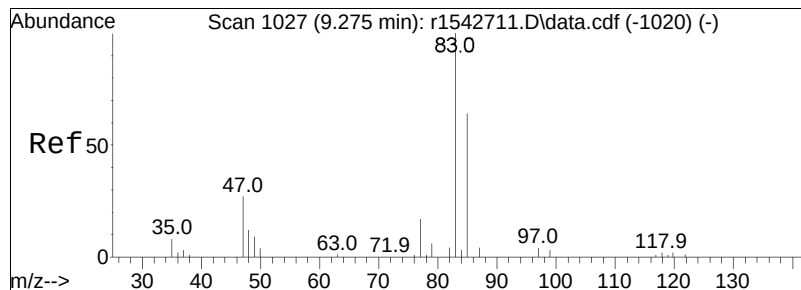
Delta R.T. 0.054 min

Lab File: r1542429.D

Acq: 1 Feb 2024 12:49 AM

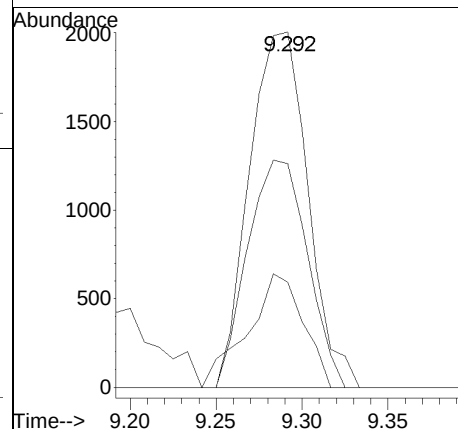
Tgt Ion:	101	Resp:	2503
Ion Ratio	Lower	Upper	
101	100		
85	38.7	35.3	52.9
151	64.6	63.8	95.8

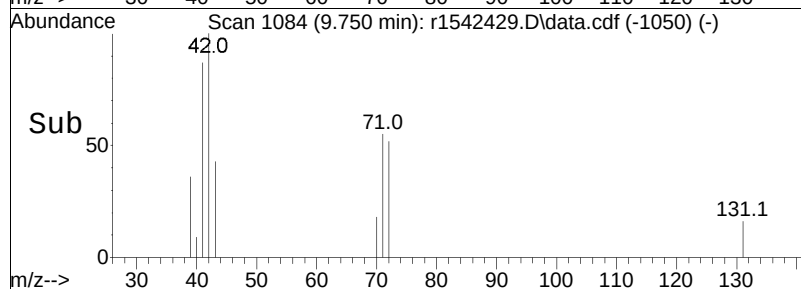
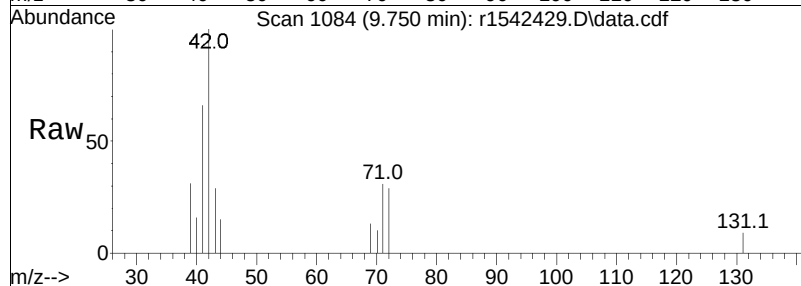
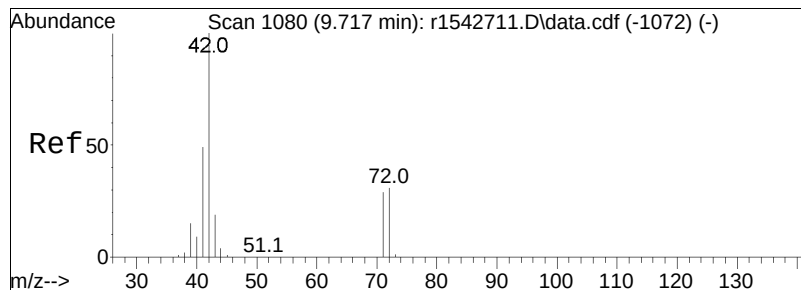




#39
chloroform
Concen: 0.11 ppbV
RT: 9.292 min Scan# 1029
Delta R.T. 0.067 min
Lab File: r1542429.D
Acq: 1 Feb 2024 12:49 AM

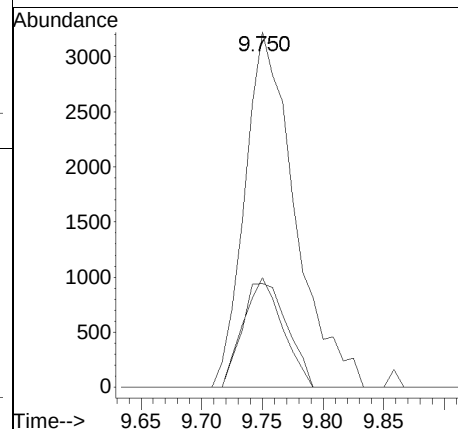
Tgt Ion:	83	Resp:	4749
Ion Ratio	Lower	Upper	
83	100		
85	62.9	51.5	77.3
47	29.6	15.9	23.9#

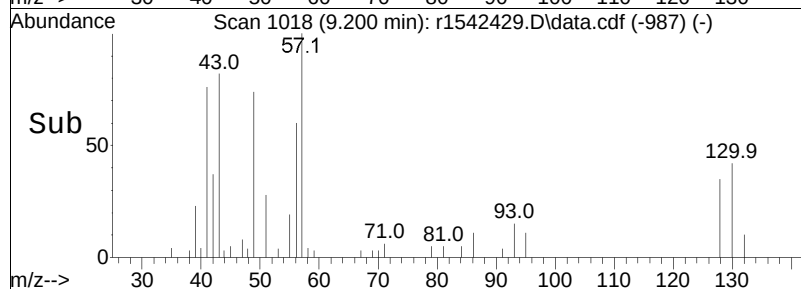
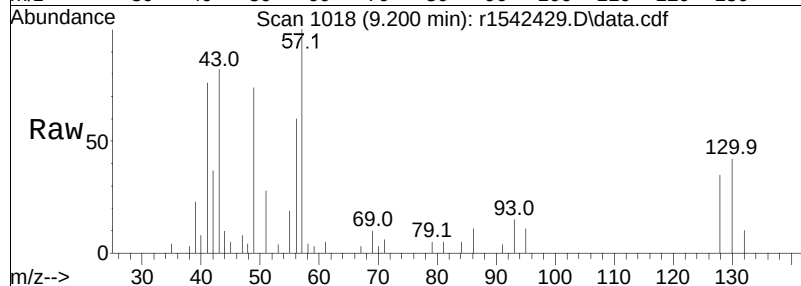
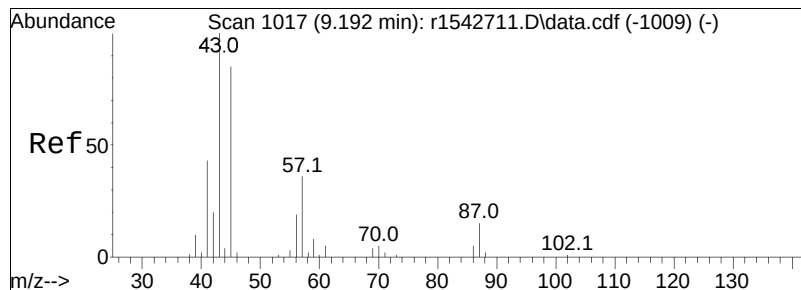




#40
Tetrahydrofuran
Concen: 0.33 ppbV
RT: 9.750 min Scan# 1084
Delta R.T. 0.083 min
Lab File: r1542429.D
Acq: 1 Feb 2024 12:49 AM

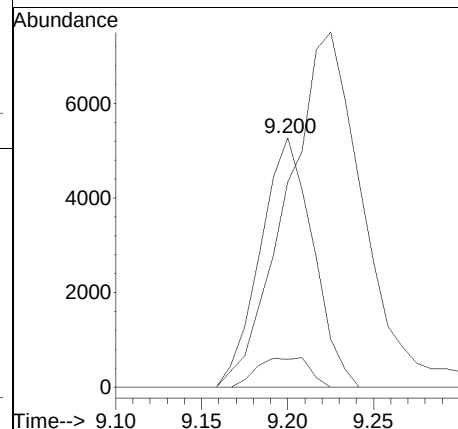
Tgt Ion	Ratio	Lower	Upper
42	100		
71	30.8	30.6	46.0
72	29.3	32.5	48.7#

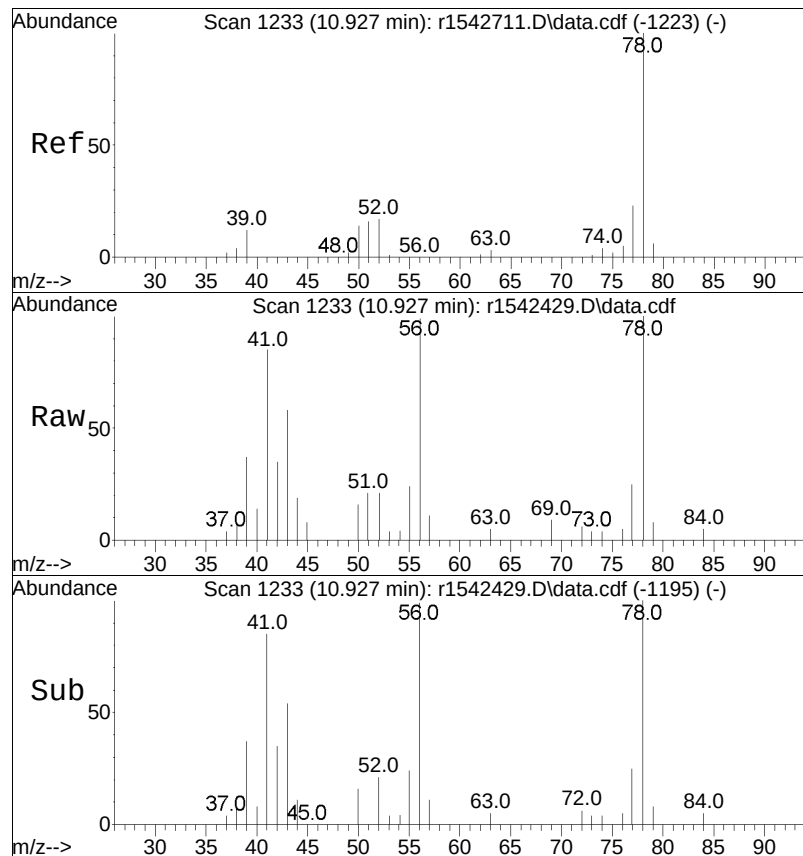




#44
hexane
Concen: 0.28 ppbV
RT: 9.200 min Scan# 1018
Delta R.T. 0.058 min
Lab File: r1542429.D
Acq: 1 Feb 2024 12:49 AM

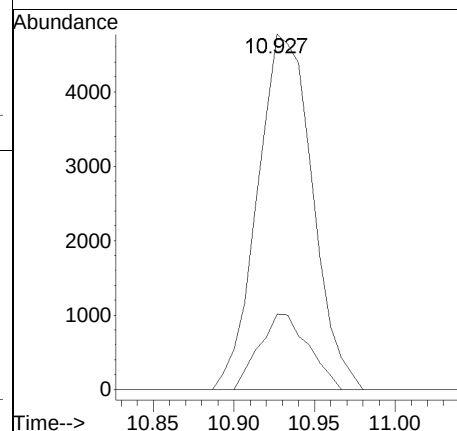
Tgt Ion:	57	Resp:	11266
Ion Ratio	Lower	Upper	
57	100		
43	82.4	146.8	220.2#
86	11.2	12.7	19.1#

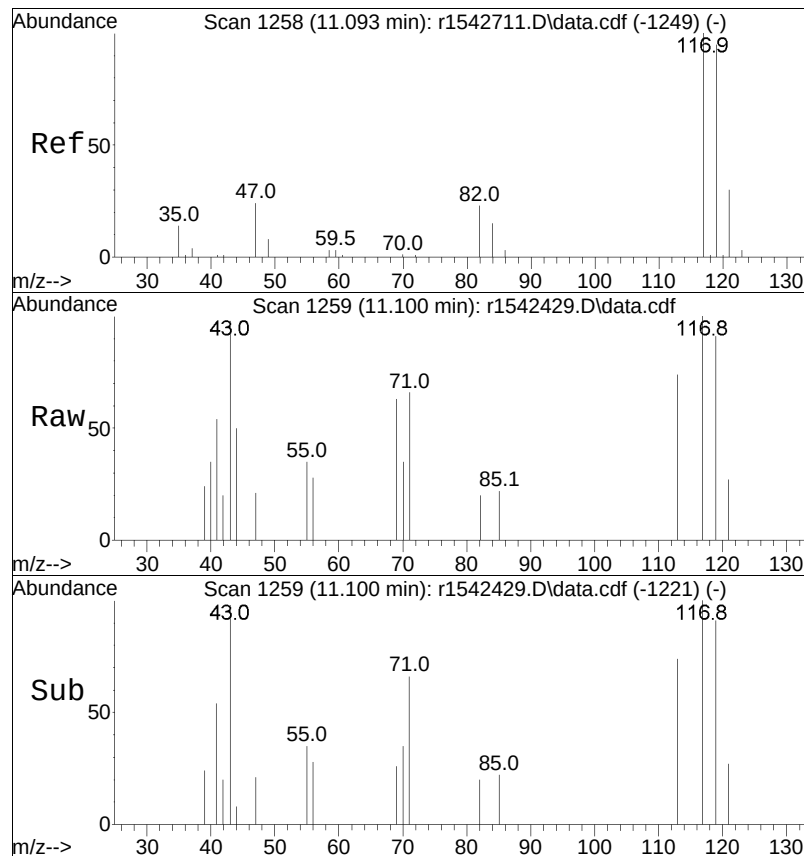




#50
benzene
Concen: 0.15 ppbV
RT: 10.927 min Scan# 1233
Delta R.T. 0.053 min
Lab File: r1542429.D
Acq: 1 Feb 2024 12:49 AM

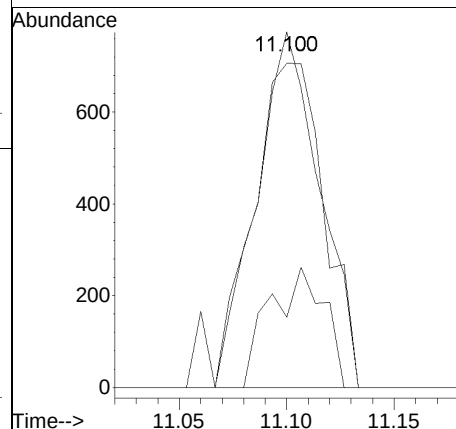
Tgt	Ion	Ratio	Lower	Upper
78	100			
52	21.2	14.1	21.1#	

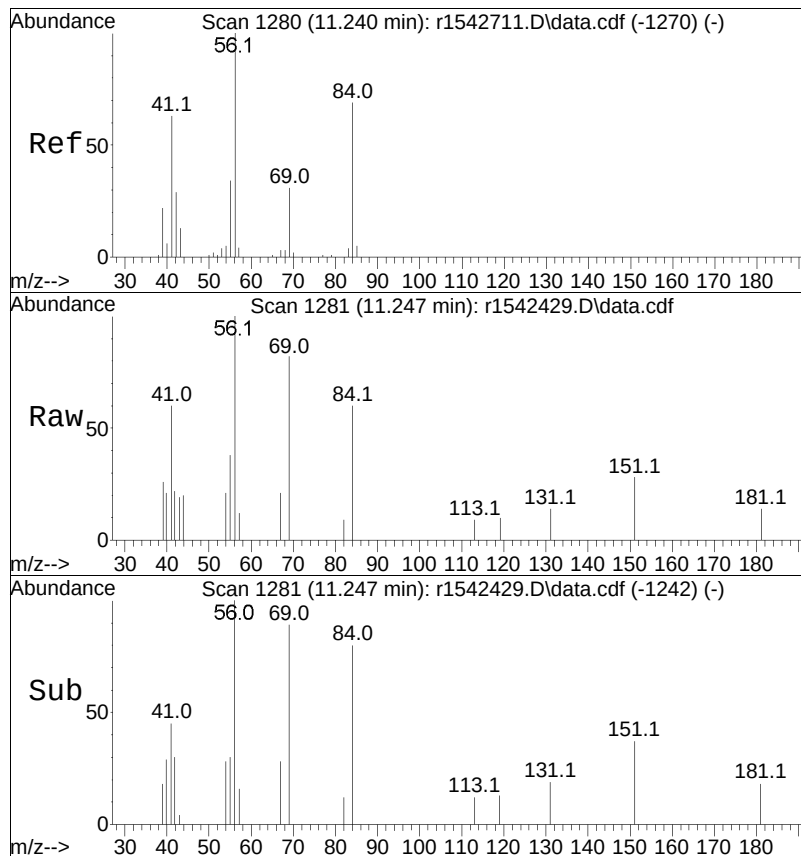




#52
 carbon tetrachloride
 Concen: 0.06 ppbV
 RT: 11.100 min Scan# 1259
 Delta R.T. 0.053 min
 Lab File: r1542429.D
 Acq: 1 Feb 2024 12:49 AM

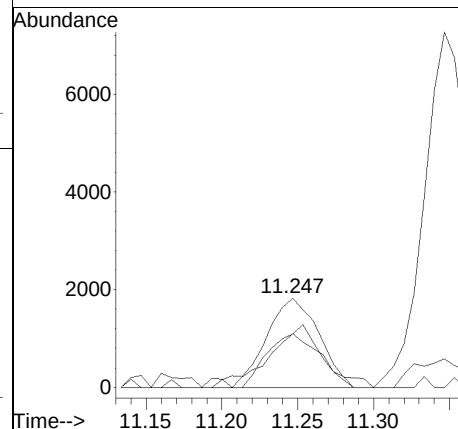
Tgt Ion:	117	Resp:	1600
Ion Ratio	Lower	Upper	
117	100		
119	91.2	77.1	115.7
82	19.8	17.2	25.8

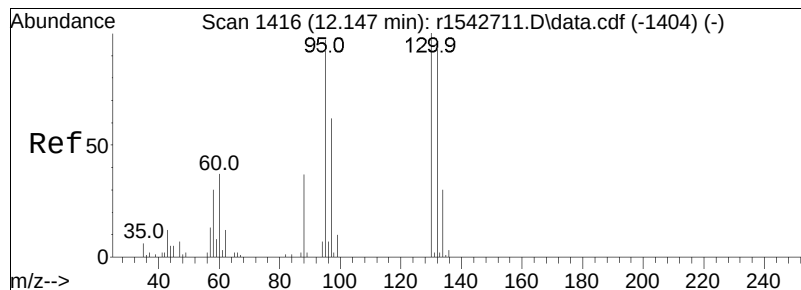




#53
cyclohexane
Concen: 0.11 ppbV
RT: 11.247 min Scan# 1281
Delta R.T. 0.060 min
Lab File: r1542429.D
Acq: 1 Feb 2024 12:49 AM

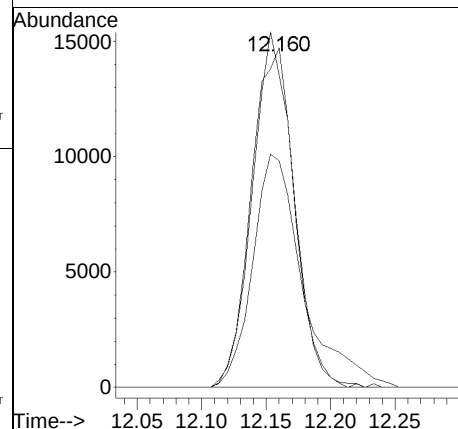
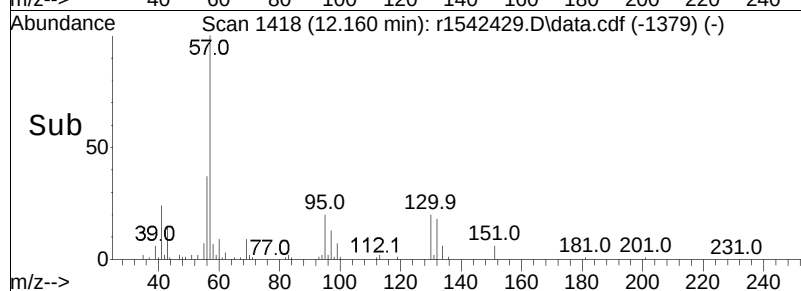
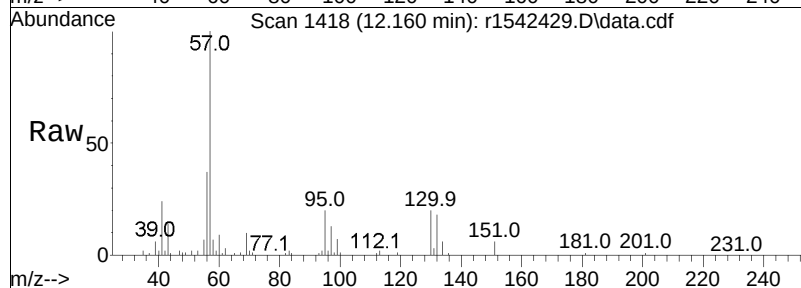
Tgt	Ion	Resp	Lower	Upper
56	100			
84	60.0	60.2	90.2#	
41	60.2	33.5	50.3#	

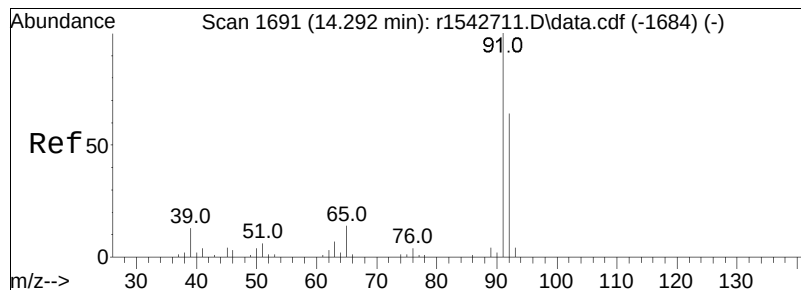




#59
trichloroethene
Concen: 1.19 ppbV
RT: 12.160 min Scan# 1418
Delta R.T. 0.060 min
Lab File: r1542429.D
Acq: 1 Feb 2024 12:49 AM

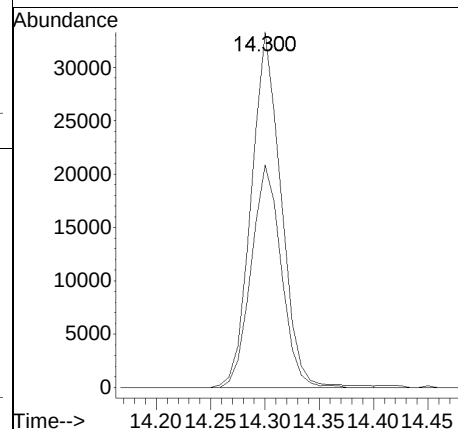
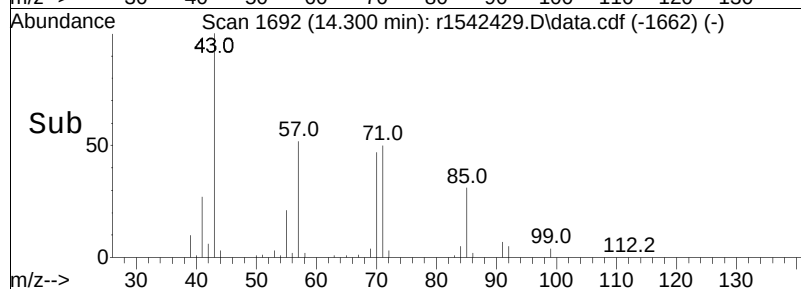
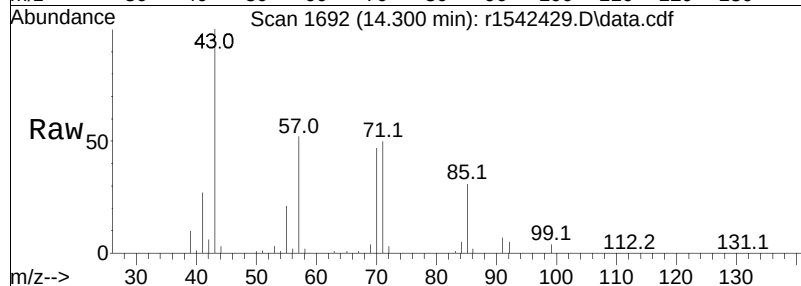
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	34620		
132	91.9		74.7	112.1
97	66.7		46.6	70.0

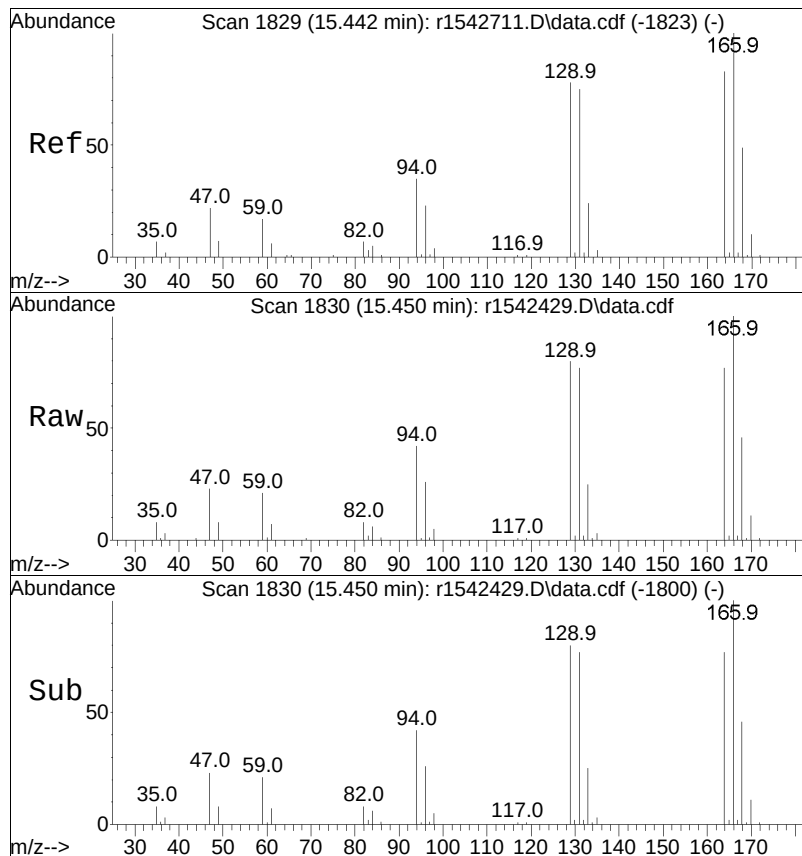




#68
toluene
Concen: 0.60 ppbV
RT: 14.300 min Scan# 1692
Delta R.T. 0.050 min
Lab File: r1542429.D
Acq: 1 Feb 2024 12:49 AM

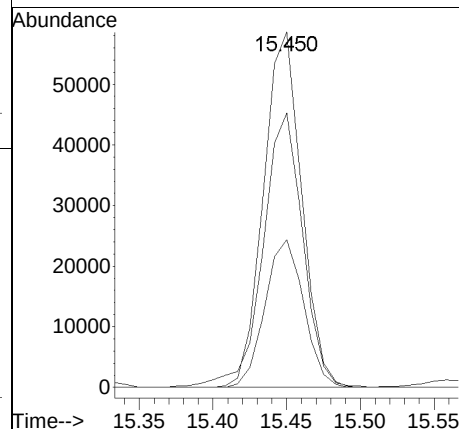
Tgt	Ion	Resp	Lower	Upper
91	100			
92	62.6		51.0	76.4

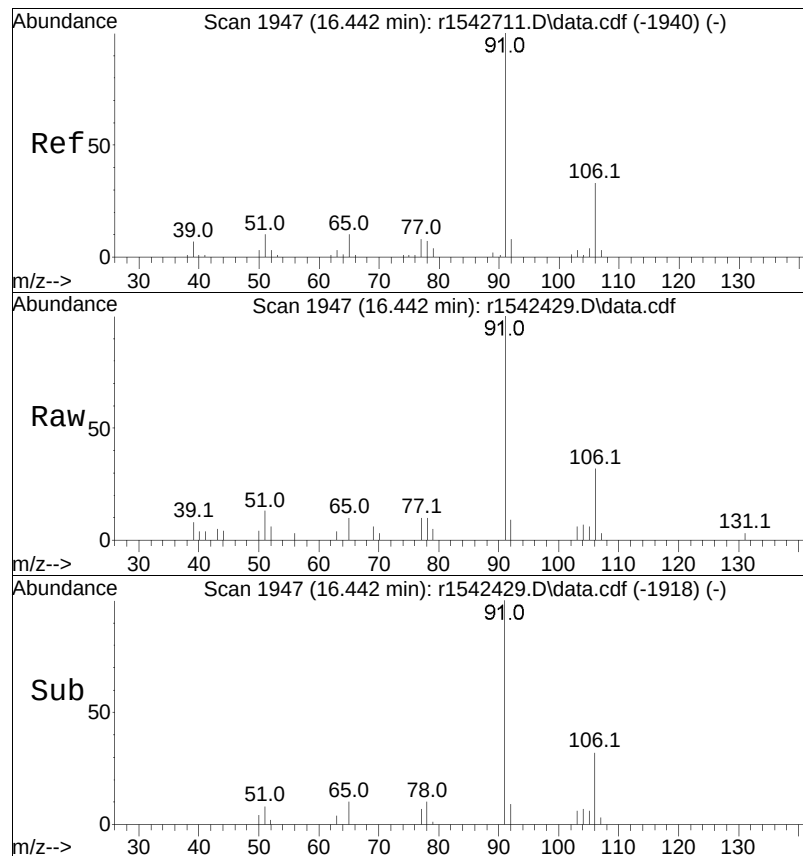




#78
 tetrachloroethene
 Concen: 2.47 ppbV
 RT: 15.450 min Scan# 1830
 Delta R.T. 0.050 min
 Lab File: r1542429.D
 Acq: 1 Feb 2024 12:49 AM

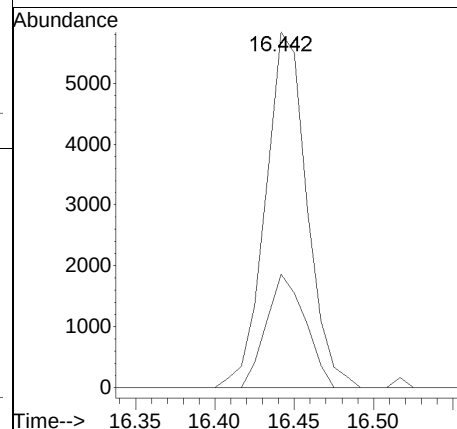
Tgt	Ion:166	Resp:	105456
Ion	Ratio	Lower	Upper
166	100		
131	77.2	55.6	83.4
94	41.6	25.4	38.2#

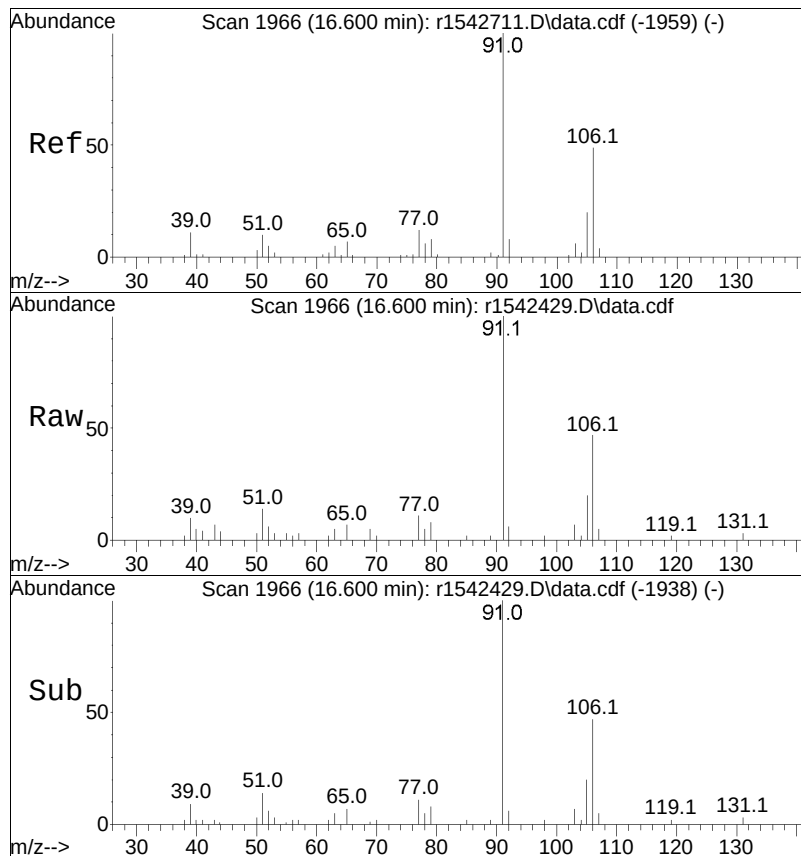




#81
ethylbenzene
Concen: 0.08 ppbV
RT: 16.442 min Scan# 1947
Delta R.T. 0.042 min
Lab File: r1542429.D
Acq: 1 Feb 2024 12:49 AM

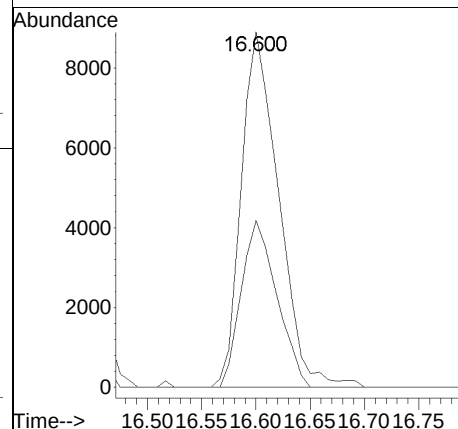
Tgt Ion	Ratio	Lower	Upper
91	100		
106	31.9	27.7	41.5

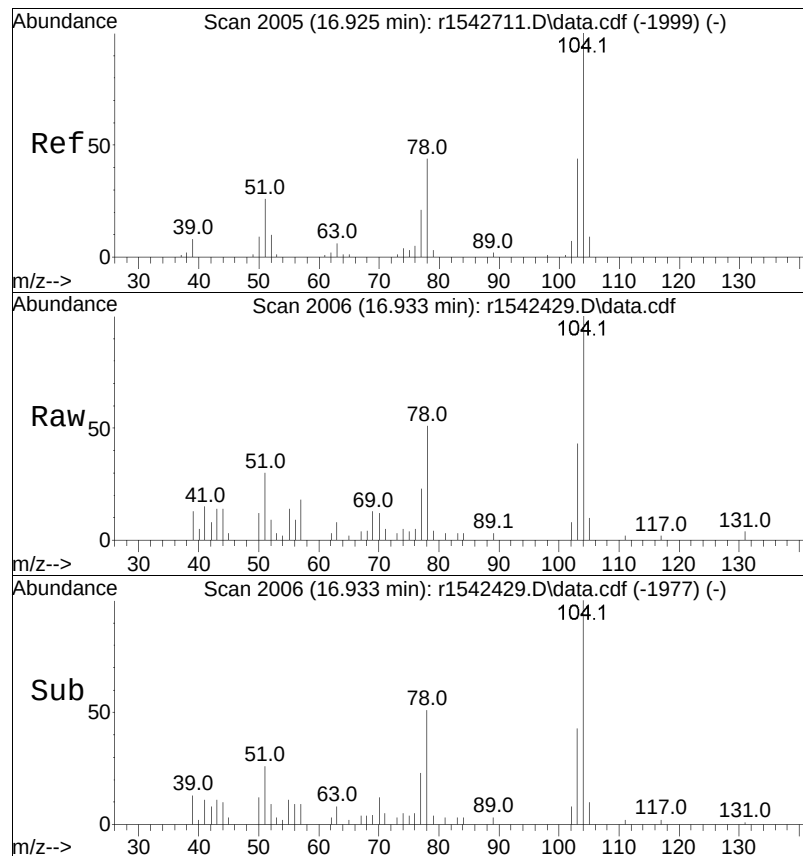




#83
 m+p-xylene
 Concen: 0.20 ppbV
 RT: 16.600 min Scan# 1966
 Delta R.T. 0.033 min
 Lab File: r1542429.D
 Acq: 1 Feb 2024 12:49 AM

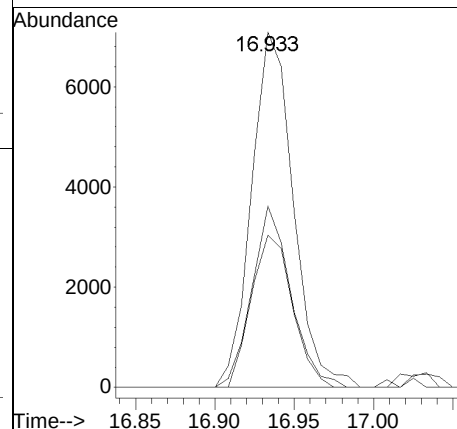
Tgt	Ion	Resp	Lower	Upper
91	100	21363		
106	47.0	42.7	64.1	

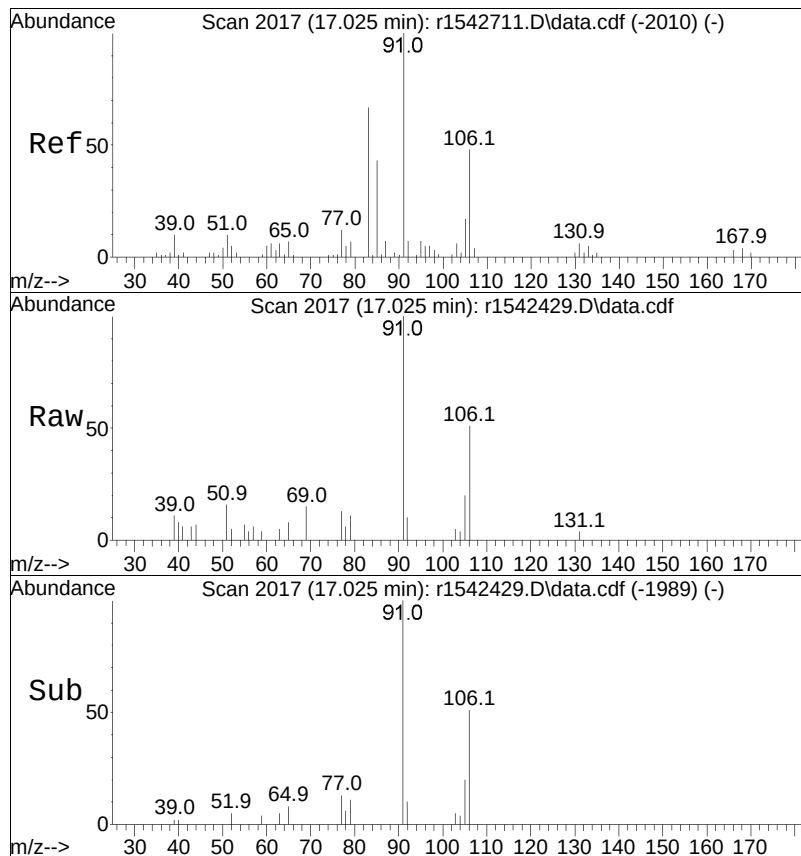




#85
styrene
Concen: 0.15 ppbV
RT: 16.933 min Scan# 2006
Delta R.T. 0.042 min
Lab File: r1542429.D
Acq: 1 Feb 2024 12:49 AM

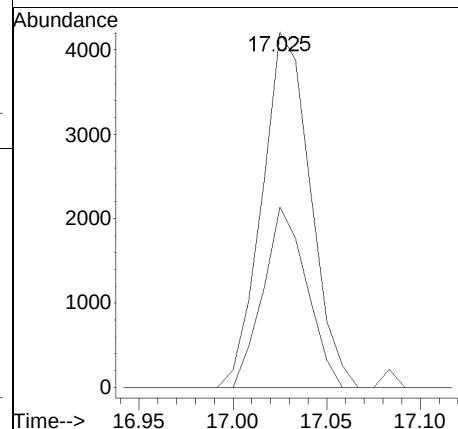
Tgt	Ion	Ratio	Lower	Upper
104	100			
103	42.8	34.9	52.3	
78	51.0	36.2	54.4	

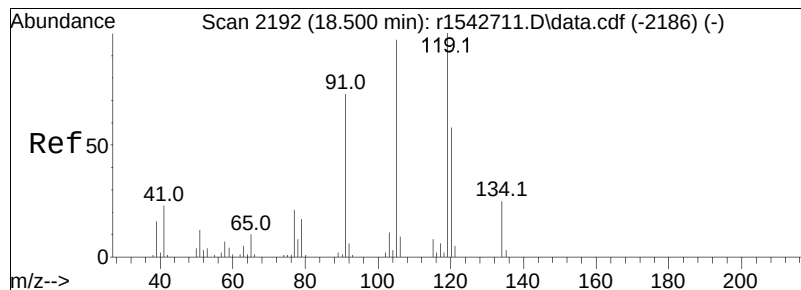




#87
 o-xylene
 Concen: 0.07 ppbV
 RT: 17.025 min Scan# 2017
 Delta R.T. 0.033 min
 Lab File: r1542429.D
 Acq: 1 Feb 2024 12:49 AM

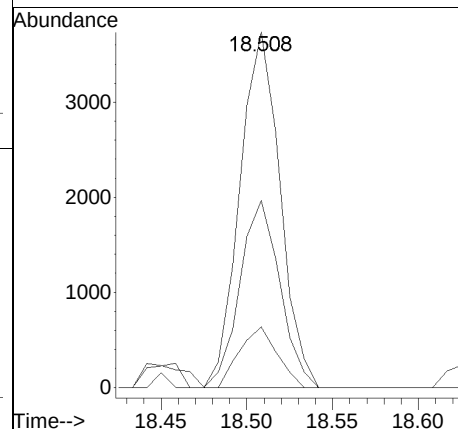
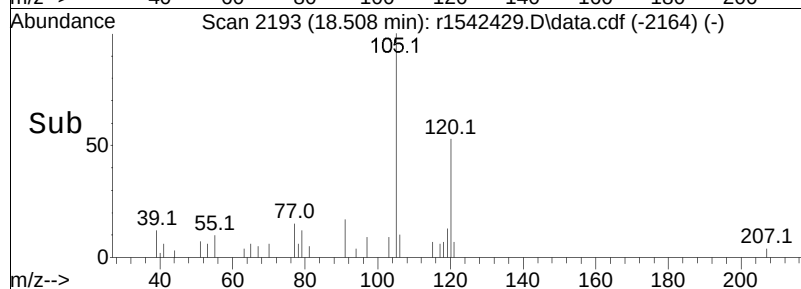
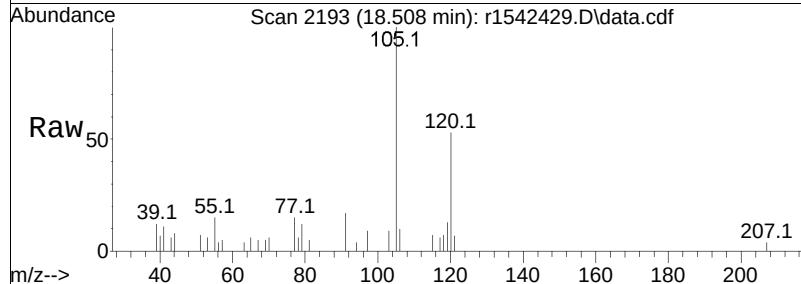
Tgt	Ion	Resp	Lower	Upper
91	100	7553		
106	50.8		40.0	60.0

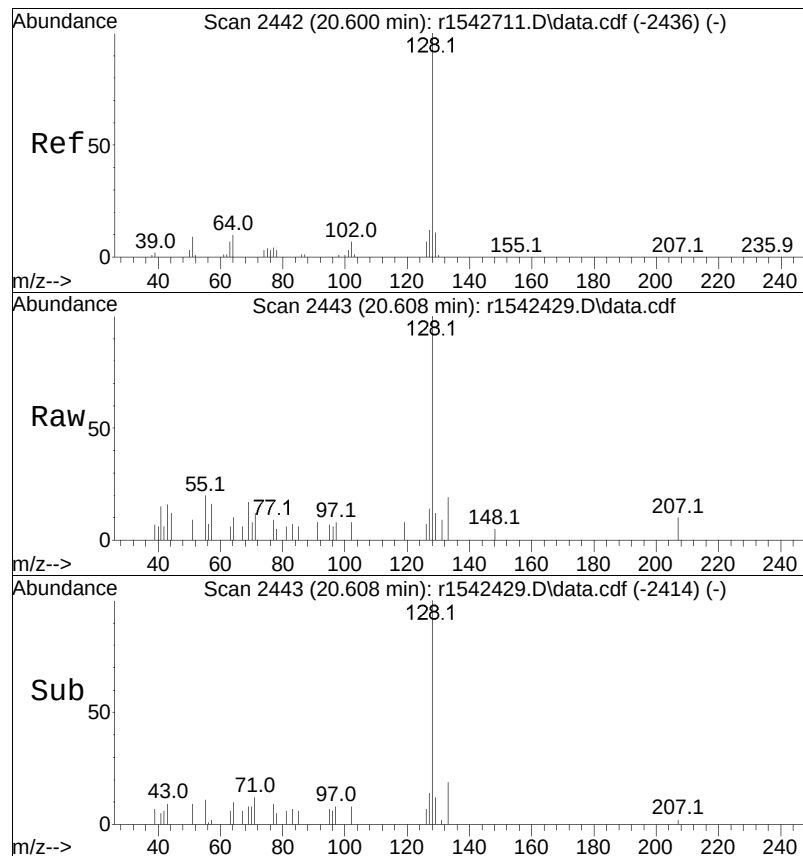




#99
 1,2,4-trimethylbenzene
 Concen: 0.05 ppbV m
 RT: 18.508 min Scan# 2193
 Delta R.T. 0.042 min
 Lab File: r1542429.D
 Acq: 1 Feb 2024 12:49 AM

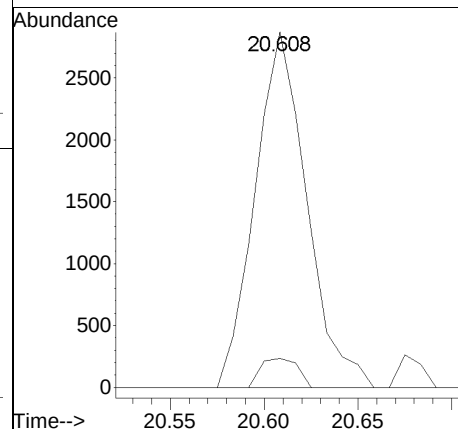
Tgt Ion	Ratio	Lower	Upper
105	100		
120	52.6	51.8	77.6
91	17.0	58.3	87.5#





#116
 naphthalene
 Concen: 0.03 ppbV
 RT: 20.608 min Scan# 2443
 Delta R.T. 0.042 min
 Lab File: r1542429.D
 Acq: 1 Feb 2024 12:49 AM

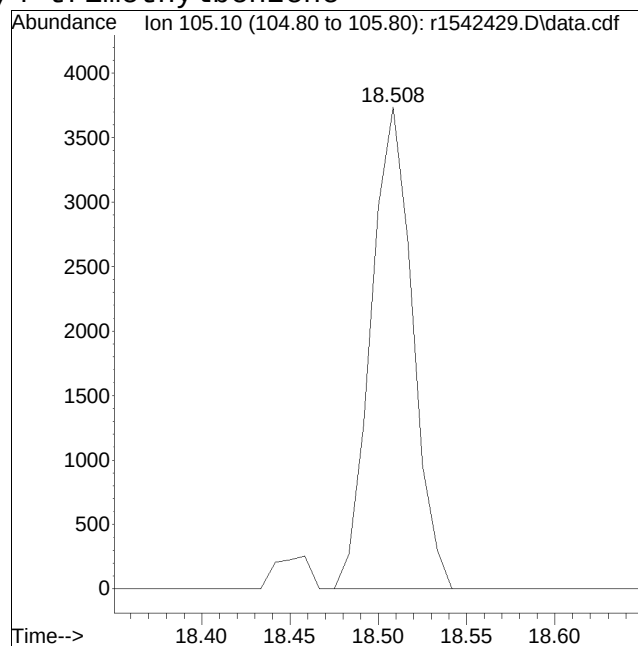
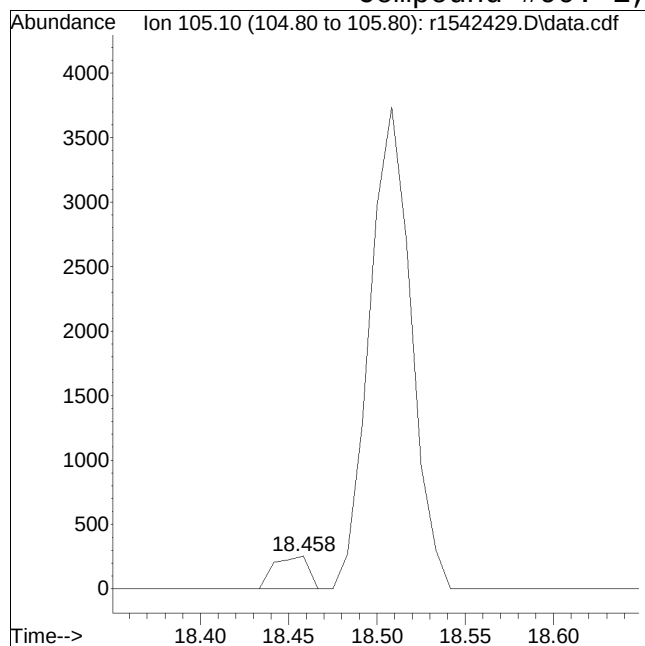
Tgt	Ion	Ratio	Lower	Upper
128	100			
102	8.2	5.4	8.2	



Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1542429.D Operator : AIRLAB15:JMB
Date Inj'd : 2/1/2020 0:2: 9 Instrument :
Sample : L2403288-10,3,250,250 Quant Date : 2/1/2024 6:54 am

Compound #99: 1,2,4-trimethylbenzene



Original Peak Response = 344

Manual Peak Response = 6105 M3

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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542441.D
 Acq On : 1 Feb 2024 9:00 AM
 Operator : AIRLAB15:JMB
 Sample : L2403288-06D,3,25,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 13:34:48 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131T\r1542413.D
 Sub List : IPA_ONLY - -

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.133	49	321639	10.000	ppbV	0.06
Standard Area = 375210			Recovery = 85.72%			
43) 1,4-difluorobenzene	11.347	114	976324	10.000	ppbV	0.05
Standard Area = 971110			Recovery = 100.54%			
67) chlorobenzene-D5	16.050	54	150062	10.000	ppbV	0.04
Standard Area = 187857			Recovery = 79.88%			

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue	
22) isopropyl alcohol	5.983	45	987979	43.193	ppbV	#	96

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

Sub List : IPA_ONLY - -\Data\Airlab15\2024\01\0131T\r1542413.D

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\

Data File : r1542441.D

Acq On : 1 Feb 2024 9:00 AM

Operator : AIRLAB15:JMB

Sample : L2403288-06D,3,25,250

Misc : WG1880230,ICAL20574

ALS Vial : 0 Sample Multiplier: 1

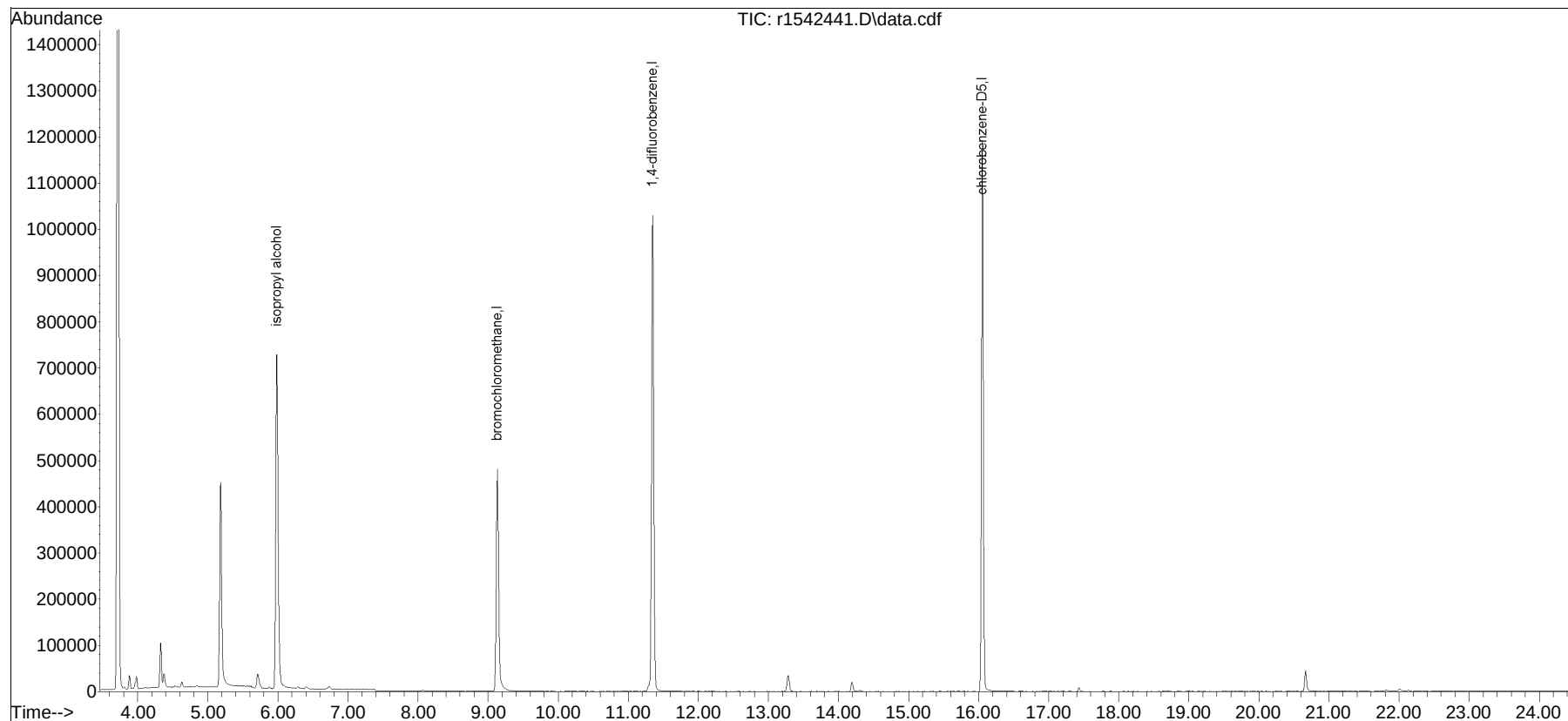
Quant Time: Feb 01 13:34:48 2024

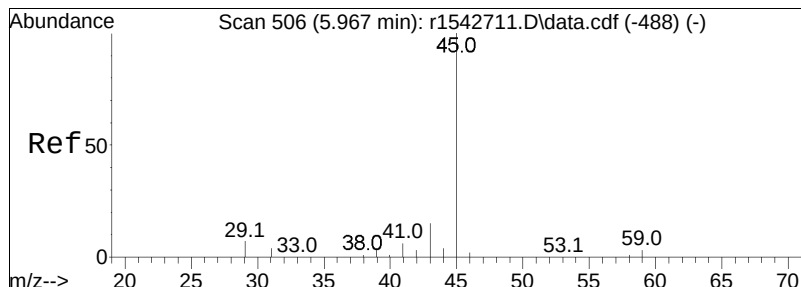
Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

QLast Update : Tue Nov 21 15:43:21 2023

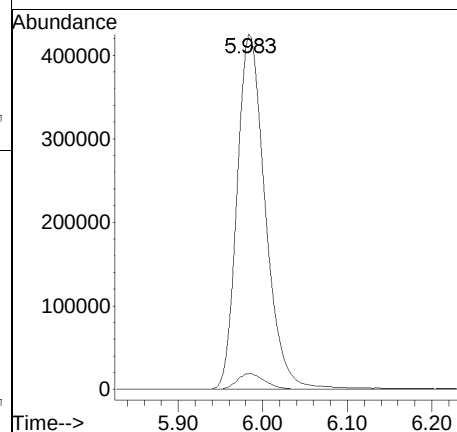
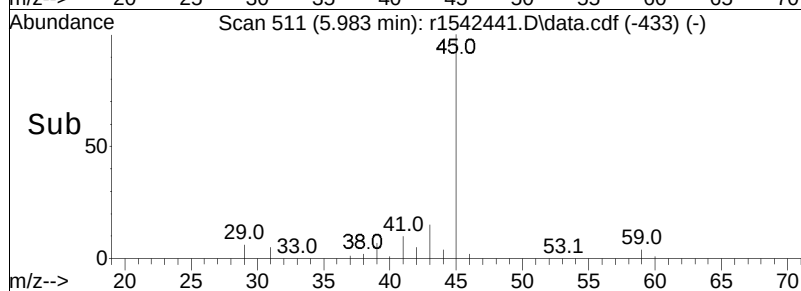
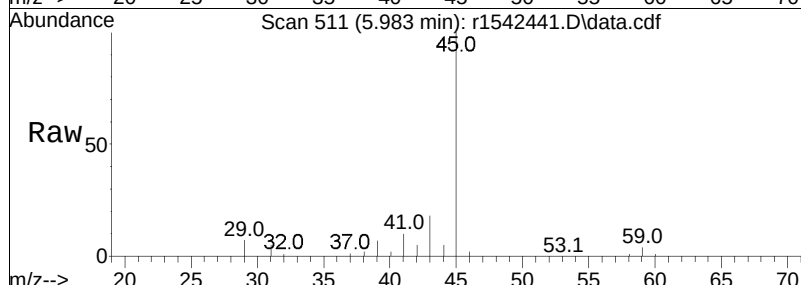
Response via : Initial Calibration





#22
 isopropyl alcohol
 Concen: 43.19 ppbV
 RT: 5.983 min Scan# 511
 Delta R.T. 0.060 min
 Lab File: r1542441.D
 Acq: 1 Feb 2024 9:00 AM

Tgt Ion: 45 Resp: 987979
 Ion Ratio Lower Upper
 45 100
 59 4.4 4.6 6.8#



Manual Integration Report

Data Path	: 0:\Forensics\Data\Airlab15Q	Method	: TFS15_231120.M
Data File	: r1542441.D	Operator	: AIRLAB15:JMB
Date Inj'd	: 2/1/2020 0:9: 0	Instrument	:
Sample	: L2403288-06D,3,25,250	Quant Date	: 2/1/2024 1:34 pm

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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\02\0201T\
 Data File : r1738313.D
 Acq On : 2 Feb 2024 2:31 AM
 Operator : AIRLAB17:JMB
 Sample : L2403288-04D,3,25,250
 Misc : WG1880708,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 02 07:13:38 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\02\0201T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\02\0201T\r1738297.D
 Sub List : IPA_ONLY - -

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.833	49	327866	10.000	ppbV	0.00
Standard Area = 342891			Recovery =		95.62%	
43) 1,4-difluorobenzene	11.070	114	868663	10.000	ppbV	0.00
Standard Area = 918799			Recovery =		94.54%	
67) chlorobenzene-D5	15.833	54	121985	10.000	ppbV	0.00
Standard Area = 130233			Recovery =		93.67%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue	
22) isopropyl alcohol	5.703	45	570197	21.982	ppbV	#	97

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

Sub List : IPA_ONLY - -\Data\Airlab17\2024\02\0201T\r1738297.D

Data Path : 0:\Forensics\Data\Airlab17\2024\02\0201T\

Data File : r1738313.D

Acq On : 2 Feb 2024 2:31 AM

Operator : AIRLAB17:JMB

Sample : L2403288-04D,3,25,250

Misc : WG1880708,ICAL20743

ALS Vial : 0 Sample Multiplier: 1

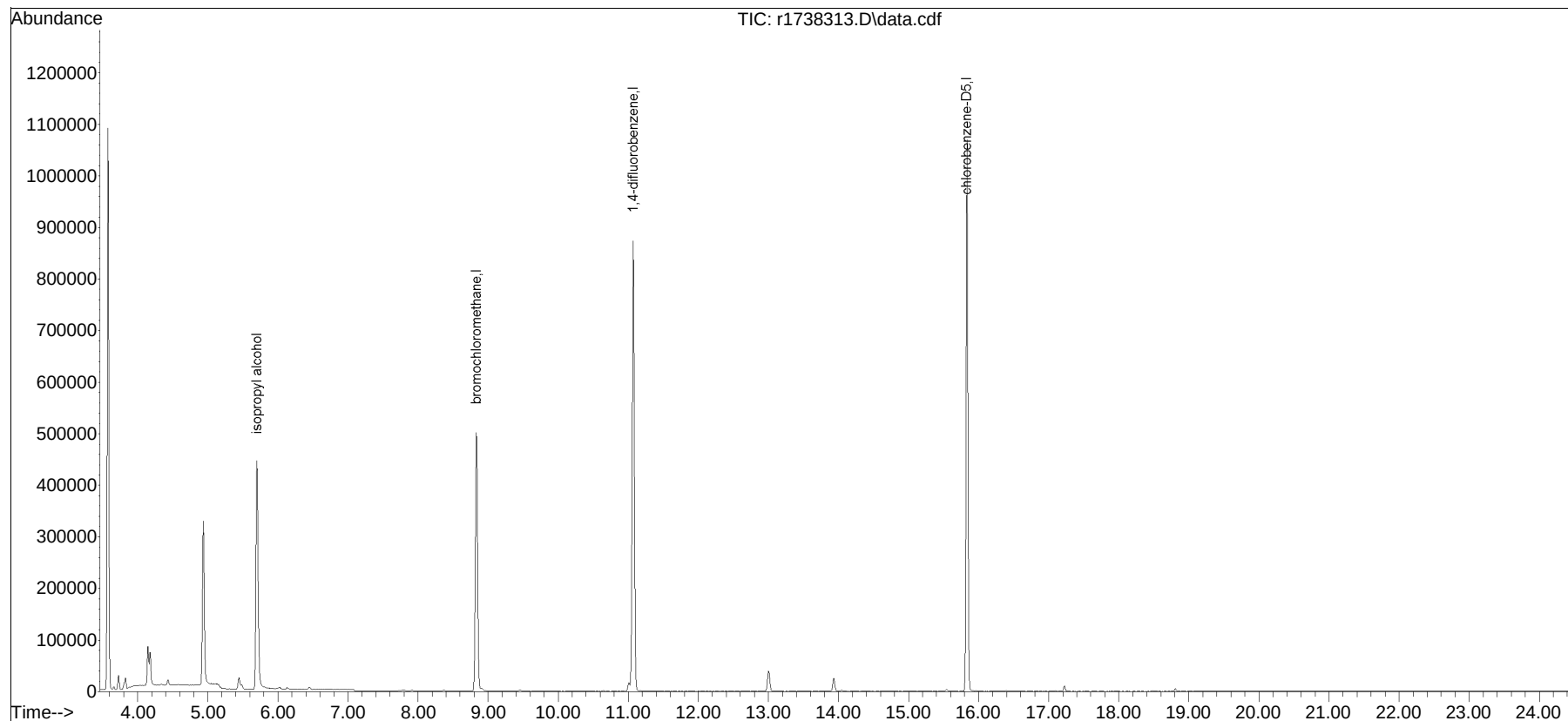
Quant Time: Feb 02 07:13:38 2024

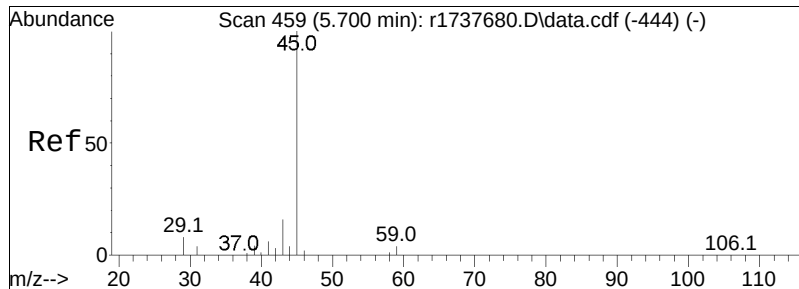
Quant Method : 0:\Forensics\Data\Airlab17\2024\02\0201T\TFS17_240107.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

QLast Update : Mon Jan 08 15:04:31 2024

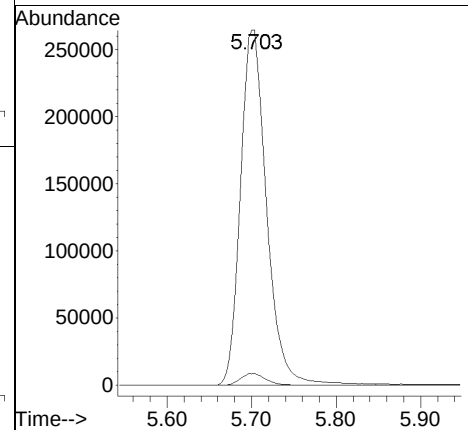
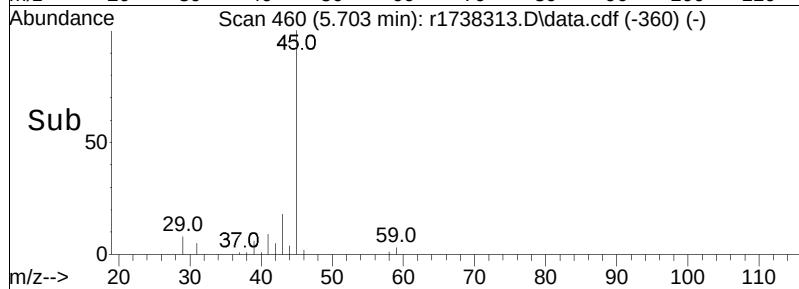
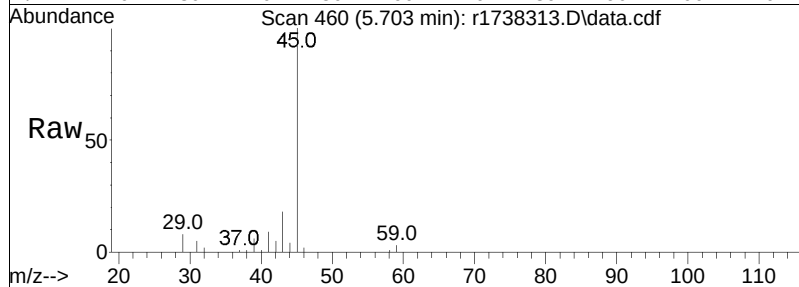
Response via : Initial Calibration





#22
isopropyl alcohol
Concen: 21.98 ppbV
RT: 5.703 min Scan# 460
Delta R.T. 0.003 min
Lab File: r1738313.D
Acq: 2 Feb 2024 2:31 AM

Tgt Ion: 45 Resp: 570197
Ion Ratio Lower Upper
45 100
59 3.4 3.4 5.2#



Manual Integration Report

Data Path	: 0:\Forensics\Data\Airlab17Q	Method	: TFS17_240107.M
Data File	: r1738313.D	Operator	: AIRLAB17:JMB
Date Inj'd	: 2/2/2020 0:2: 1	Instrument	:
Sample	: L2403288-04D,3,25,250	Quant Date	: 2/2/2024 7:13 am

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

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary

Form 6

Air Volatiles

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRLAB15
 Calibration dates : 11/20/23 21:44 11/21/23 02:20

Lab Number : L2403288
 Project Number : BK-001
 Ical Ref : ICAL20574

Calibration Files

0.2 =r1540782.D 0.5 =r1540783.D 1.0 =r1540784.D 5.0 =r1540785.D 10 =r1540786.D 20 =r1540787.D
 50 =r1540788.D 100 =r1540789.D

Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
1) I bromochloromethane	-----ISTD-----									
2) chlorodifluoromethane	1.113	1.097	1.068	0.987	0.923	0.895	0.838	0.783	0.963	12.79
3) propylene		0.563	0.561	0.506	0.513	0.532	0.528	0.535	0.534	4.09
4) propane		0.833	0.823	0.745	0.704	0.637	0.597	0.546	0.698	15.82
5) dichlorodifluoromethane	1.296	1.302	1.281	1.228	1.135	1.004	0.965	0.900	1.139	14.28
6) C chloromethane	0.490	0.472	0.490	0.451	0.420	0.372	0.359	0.371	0.428	12.87
7) Freon-114	1.304	1.279	1.264	1.209	1.116	0.977	0.872	0.801	1.103	17.76
8) C methanol			0.319	0.249	0.234	0.205	0.185	0.174	0.228	23.18
9) C vinyl chloride	0.678	0.645	0.665	0.650	0.632	0.595	0.568	0.564	0.625	6.98
10) C 1,3-butadiene	0.489	0.464	0.473	0.437	0.415	0.380	0.348	0.343	0.419	13.58
11) butane	0.858	0.806	0.803	0.724	0.701	0.688	0.695	0.749	0.753	8.34
12) C acetaldehyde		0.282	0.274	0.244	0.223	0.195	0.161	0.139	0.217	25.19
13) C bromomethane	0.566	0.537	0.535	0.520	0.507	0.471	0.443	0.423	0.500	10.02
14) C chloroethane	0.355	0.325	0.316	0.299	0.300	0.287	0.286	0.287	0.307	7.83
15) ethanol			0.460	0.431	0.419	0.365	0.310	0.271	0.376	19.70
16) dichlorofluoromethane	1.086	1.076	1.048	0.970	0.947	0.931	0.915	0.941	0.989	7.01
17) C vinyl bromide	0.485	0.477	0.473	0.447	0.442	0.452	0.459	0.459	0.462	3.28
18) C acrolein		0.257	0.263	0.237	0.235	0.224	0.212	0.200	0.232	9.75
19) acetone	0.657	0.628	0.614	0.554	0.542	0.523	0.505	0.493	0.564	10.85
20) C acetonitrile	0.530	0.491	0.492	0.450	0.440	0.484	0.455	0.477	0.477	6.05
21) trichlorofluoromethane	0.948	0.918	0.925	0.884	0.862	0.801	0.762	0.709	0.851	10.04
22) isopropyl alcohol	0.796	0.791	0.771	0.673	0.665	0.669	0.657	0.667	0.711	8.80
23) C acrylonitrile	0.416	0.541	0.451	0.545	0.484	0.488	0.582	0.550	0.507	11.14
24) pentane	1.061	1.329	1.318	1.210	1.178	1.184	1.189	1.180	1.206	7.08
25) ethyl ether	1.240	1.273	1.266	1.198	1.174	1.169	1.098	0.955	1.172	8.94
26) C 1,1-dichloroethene	1.041	1.008	0.999	0.971	0.964	0.943	0.971	0.953	0.981	3.30
27) tertiary butyl alcohol		1.151	1.179	1.106	1.149	1.251	1.305	1.292	1.205	6.44
28) C methylene chloride		0.875	0.863	0.798	0.778	0.730	0.699	0.655	0.771	10.65
29) C 3-chloropropene	0.850	0.887	0.879	0.828	0.837	0.850	0.891	0.927	0.869	3.83
30) C carbon disulfide	1.876	1.848	1.905	1.813	1.796	1.820	1.777	1.651	1.811	4.26
31) Freon 113	1.183	1.156	1.150	1.102	1.083	1.060	1.111	1.081	1.116	3.86
32) trans-1,2-dichloroethene	1.014	0.973	1.002	0.933	0.937	0.974	1.020	1.002	0.982	3.41
33) C 1,1-dichloroethane	1.278	1.272	1.240	1.214	1.204	1.179	1.248	1.265	1.238	2.87
34) C MTBE	1.539	1.533	1.547	1.470	1.446	1.460	1.464	1.494	1.494	2.69
35) C vinyl acetate	1.279	1.236	1.288	1.126	1.191	1.266	1.333	1.371	1.261	6.14
36) C 2-butanone		1.382	1.406	1.289	1.277	1.293	1.323	1.336	1.329	3.70



Initial Calibration Summary

Form 6

Air Volatiles

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRLAB15
 Calibration dates : 11/20/23 21:44 11/21/23 02:20

Lab Number : L2403288
 Project Number : BK-001
 Ical Ref : ICAL20574

Calibration Files

0.2 =r1540782.D 0.5 =r1540783.D 1.0 =r1540784.D 5.0 =r1540785.D 10 =r1540786.D 20 =r1540787.D
 50 =r1540788.D 100 =r1540789.D

	Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
37)	cis-1,2-dichloroethene	0.955	0.925	0.943	0.928	0.926	0.919	0.962	0.940	0.937	1.64
38)	Ethyl Acetate		0.232	0.257	0.241	0.239	0.252	0.266	0.250	0.248	4.67
39) C	chloroform	1.375	1.331	1.322	1.269	1.248	1.180	1.096	0.992	1.226	10.61
40)	Tetrahydrofuran		0.828	0.843	0.801	0.796	0.819	0.849	0.876	0.830	3.39
41)	2,2-dichloropropane	0.848	0.897	0.892	0.839	0.834	0.831	0.784	0.744	0.834	6.08
42) C	1,2-dichloroethane	0.878	0.790	0.767	0.739	0.729	0.693	0.681	0.665	0.743	9.31
43) I	1,4-difluorobenzene	-----ISTD-----									
44) C	hexane	0.480	0.478	0.472	0.447	0.447	0.446	0.407	0.323	0.437	11.89
45)	diisopropyl ether	0.228	0.234	0.234	0.228	0.226	0.229	0.213	0.178	0.221	8.40
46)	tert-butyl ethyl ether	0.789	0.768	0.780	0.748	0.759	0.758	0.732	0.667	0.750	5.06
47) s	1,2-dichloroethane-D4	0.366	0.381	0.373	0.382	0.379	0.372	0.360	0.357	0.371	2.55
48) C	1,1,1-trichloroethane	0.332	0.334	0.338	0.332	0.330	0.320	0.308	0.291	0.323	4.96
49)	1,1-dichloropropene	0.347	0.343	0.344	0.333	0.328	0.323	0.300	0.279	0.325	7.26
50) C	benzene	0.873	0.865	0.862	0.847	0.834	0.790	0.732	0.672	0.809	9.00
51)	thiophene									0.000	-1.00
52) C	carbon tetrachloride	0.313	0.304	0.310	0.321	0.325	0.307	0.277	0.253	0.301	8.03
53)	cyclohexane	0.512	0.500	0.506	0.478	0.477	0.483	0.457	0.400	0.477	7.49
54)	tert-amyl methyl ether	0.631	0.626	0.627	0.607	0.610	0.609	0.586	0.562	0.607	3.83
55)	dibromomethane	0.245	0.243	0.244	0.233	0.234	0.237	0.233	0.206	0.235	5.38
56) C	1,2-dichloropropane	0.313	0.298	0.297	0.294	0.296	0.290	0.293	0.271	0.294	3.97
57)	bromodichloromethane	0.404	0.430	0.423	0.421	0.425	0.420	0.378	0.328	0.404	8.59
58) C	1,4-dioxane	0.192	0.188	0.189	0.185	0.189	0.195	0.190	0.163	0.187	5.29
59) C	trichloroethene	0.329	0.330	0.326	0.322	0.326	0.313	0.321	0.288	0.319	4.35
60) C	2,2,4-trimethylpentane	1.576	1.564	1.566	1.487	1.487	1.491	1.350	1.127	1.456	10.40
61)	methyl methacrylate		0.277	0.280	0.275	0.281	0.285	0.277	0.268	0.277	1.95
62)	heptane	0.514	0.509	0.518	0.491	0.484	0.476	0.445	0.410	0.481	7.72
63) C	cis-1,3-dichloropropene	0.367	0.364	0.368	0.401	0.408	0.392	0.368	0.349	0.377	5.50
64) C	4-methyl-2-pentanone		0.578	0.565	0.557	0.560	0.551	0.519	0.487	0.545	5.74
65)	trans-1,3-dichloropropene	0.271	0.285	0.293	0.322	0.330	0.317	0.300	0.285	0.301	6.89
66) C	1,1,2-trichloroethane	0.292	0.295	0.293	0.292	0.296	0.289	0.297	0.281	0.292	1.74
67) I	chlorobenzene-D5	-----ISTD-----									
68) C	toluene	5.880	5.749	5.633	5.638	5.710	5.594	5.951	5.718	5.734	2.17
69) s	toluene-D8	7.131	7.199	7.076	6.994	7.114	7.387	8.535	9.641	7.635	12.46
70)	2-methylthiophene									0.000	-1.00
71)	1,3-dichloropropane	2.684	2.666	2.643	2.520	2.486	2.435	2.479	2.477	2.549	3.88
72)	2-hexanone	2.871	2.954	3.027	2.943	3.013	3.057	3.221	3.321	3.051	4.91



Initial Calibration Summary

Form 6

Air Volatiles

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRLAB15
 Calibration dates : 11/20/23 21:44 11/21/23 02:20

Lab Number : L2403288
 Project Number : BK-001
 Ical Ref : ICAL20574

Calibration Files

0.2 =r1540782.D 0.5 =r1540783.D 1.0 =r1540784.D 5.0 =r1540785.D 10 =r1540786.D 20 =r1540787.D
 50 =r1540788.D 100 =r1540789.D

	Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
73)	3-methylthiophene									0.000	-1.00
74)	dibromochloromethane	1.958	1.971	2.092	2.148	2.271	2.374	2.533	2.494	2.230	10.04
75) C	1,2-dibromoethane	2.540	2.522	2.578	2.591	2.568	2.488	2.706	2.747	2.593	3.45
76)	butyl acetate		0.557	0.583	0.606	0.621	0.624	0.680	0.713	0.626	8.68
77)	octane	2.288	2.339	2.332	2.204	2.202	2.236	2.275	2.130	2.251	3.17
78) C	tetrachloroethene	2.426	2.264	2.264	2.269	2.278	2.238	2.354	2.317	2.301	2.69
79)	1,1,1,2-tetrachloroethane	1.726	1.757	1.771	1.782	1.804	1.891	1.956	1.806	1.812	4.17
80) C	chlorobenzene	4.696	4.605	4.530	4.523	4.521	4.311	4.464	4.200	4.481	3.54
81) C	ethylbenzene	7.195	7.212	7.163	7.302	7.430	7.319	7.772	7.355	7.343	2.65
82)	2-ethylthiophene									0.000	-1.00
83) C	m+p-xylene	5.810	5.774	5.872	5.893	5.942	5.807	5.946	5.293	5.792	3.65
84) C	bromoform	1.486	1.614	1.642	1.873	2.014	2.197	2.340	2.335	1.938	17.37
85) C	styrene	4.444	4.550	4.598	4.631	4.722	4.652	4.939	5.015	4.694	4.13
86) C	1,1,2,2-tetrachloroethane	4.509	4.496	4.470	4.656	4.680	4.439	4.137	3.470	4.357	9.06
87) C	o-xylene	5.965	5.887	5.916	5.986	6.079	5.882	5.694	4.810	5.778	7.03
88)	1,2,3-trichloropropane	3.313	3.332	3.325	3.201	3.187	3.151	3.170	3.170	3.231	2.41
89)	nonane	4.932	4.817	4.777	4.620	4.559	4.463	4.393	4.116	4.585	5.74
90) s	bromofluorobenzene	4.513	4.626	4.582	4.445	4.668	4.972	5.712	6.263	4.973	13.31
91) C	isopropylbenzene	7.281	7.469	7.465	7.283	7.212	7.281	7.487	7.256	7.342	1.52
92)	bromobenzene	4.496	4.462	4.384	4.251	4.245	4.176	4.157	4.005	4.272	3.90
93)	2-chlorotoluene	2.103	2.102	2.167	2.142	2.214	2.295	2.417	2.330	2.221	5.18
94)	n-propylbenzene	2.522	2.588	2.532	2.605	2.645	2.675	2.730	2.604	2.613	2.67
95)	4-chlorotoluene	2.168	2.080	2.123	2.152	2.221	2.285	2.423	2.405	2.232	5.74
96)	4-ethyl toluene	7.660	7.584	7.734	7.713	7.742	7.735	8.105	7.755	7.753	1.97
97)	1,3,5-trimethylbenzene	6.775	6.729	6.860	7.865	7.865	6.614	7.638	7.262	7.201	7.31
98)	tert-butylbenzene	7.395	7.289	7.476	7.540	7.381	7.173	6.606	5.483	7.043	9.86
99)	1,2,4-trimethylbenzene	6.397	6.656	6.745	7.064	7.102	6.559	6.237	5.117	6.485	9.68
100)	decane	6.011	6.168	6.244	6.335	6.479	6.381	6.203	5.265	6.136	6.19
101) C	Benzyl Chloride	2.660	2.824	3.063	3.807	4.307	4.678	5.141	4.728	3.901	24.51
102)	1,3-dichlorobenzene	4.354	4.413	4.496	4.833	4.814	4.630	4.846	4.427	4.602	4.48
103) C	1,4-dichlorobenzene	4.257	4.251	4.324	4.721	4.744	4.610	4.867	4.593	4.546	5.25
104)	sec-butylbenzene	9.331	9.665	9.549	9.654	9.615	9.428	9.663	8.673	9.447	3.55
105)	1,2,3-trimethylbenzene	5.632	5.905	5.866	5.578	5.148	5.597	5.229	4.051	5.375	11.13
106)	p-isopropyltoluene	8.354	8.895	8.866	8.479	7.556	8.116	7.434	5.480	7.897	14.12
107)	1,2-dichlorobenzene	3.997	4.157	4.062	4.566	4.643	4.401	4.551	4.256	4.329	5.70
108)	n-butylbenzene	6.895	7.258	7.386	7.801	8.115	8.001	8.041	7.068	7.571	6.31



Initial Calibration Summary

Form 6

Air Volatiles

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRLAB15
 Calibration dates : 11/20/23 21:44 11/21/23 02:20

Lab Number : L2403288
 Project Number : BK-001
 Ical Ref : ICAL20574

Calibration Files

0.2 =r1540782.D 0.5 =r1540783.D 1.0 =r1540784.D 5.0 =r1540785.D 10 =r1540786.D 20 =r1540787.D
 50 =r1540788.D 100 =r1540789.D

	Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
109)	indan	6.503	6.643	6.734	6.953	6.995	7.019	6.928	6.398	6.772	3.52
110)	indene	3.830	4.209	4.266	4.487	4.523	4.631	4.804	4.602	4.419	6.93
111) C	1,2-dibromo-3-chloropr...	1.216	1.383	1.444	1.607	1.649	1.624	1.724	1.672	1.540	11.34
112)	undecane	5.605	6.470	6.678	7.156	7.444	7.128	6.771	5.395	6.581	11.18
113)	1,2,4,5-tetramethylben...	1.001	1.128	1.178	1.605	1.674	1.238	1.357	1.376	1.320	17.57
114)	dodecane	3.443	5.521	6.418	6.841	7.807	7.052	6.517	5.081	6.085	22.46
115) C	1,2,4-trichlorobenzene	2.101	2.662	2.895	3.519	4.062	3.752	4.171	3.742	3.363	21.81
116)	naphthalene	0.576	0.767	0.821	0.894	1.009	0.973	1.033	0.946	0.877	17.34
117)	1,2,3-trichlorobenzene	1.867	2.534	2.755	2.928	3.415	3.279	3.635	3.445	2.982	19.70
118)	benzothiophene		1.246	1.399	1.824	2.093	1.682	1.737	1.355	1.620	18.57
119) C	hexachlorobutadiene	2.190	2.714	2.796	3.056	3.353	2.943	3.139	2.622	2.852	12.55
120)	2-methylnaphthalene			1.801	2.850	4.083	3.331	4.315	4.555	3.489	29.93
121)	1-methylnaphthalene			2.005	3.097	4.396	3.148	4.007	4.275	3.488	26.22

Initial Calibration Summary

Form 6

Air Volatiles

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRLAB17
 Calibration dates : 01/07/24 22:14 01/08/24 02:55

Lab Number : L2403288
 Project Number : BK-001
 Ical Ref : ICAL20743

Calibration Files

0.2 =r1737676.D 0.5 =r1737677.D 1.0 =r1737678.D 5.0 =r1737679.D 10 =r1737680.D 20 =r1737681.D
 50 =r1737682.D 100 =r1737683.D

Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
1) I bromochloromethane	-----ISTD-----									
2) chlorodifluoromethane	0.960	0.913	0.891	0.802	0.826	0.846	0.782	0.731	0.844	8.87
3) propylene		0.692	0.565	0.433	0.423	0.418	0.401	0.368	0.471	24.49
4) propane		0.701	0.688	0.610	0.595	0.622	0.589	0.562	0.624	8.27
5) dichlorodifluoromethane	1.107	0.987	0.995	0.992	0.964	0.927	0.856	0.754	0.948	11.13
6) C chloromethane	0.563	0.530	0.529	0.516	0.513	0.493	0.460	0.424	0.504	8.67
7) Freon-114	1.331	1.233	1.231	1.217	1.182	1.133	1.011	0.895	1.154	12.09
8) C methanol			0.287	0.246	0.246	0.261	0.245	0.232	0.253	7.55
9) C vinyl chloride	0.589	0.550	0.530	0.530	0.528	0.511	0.480	0.462	0.523	7.54
10) C 1,3-butadiene	0.520	0.488	0.471	0.452	0.451	0.439	0.404	0.373	0.450	10.30
11) butane	0.953	0.826	0.814	0.742	0.739	0.755	0.689	0.642	0.770	12.37
12) C acetaldehyde		0.383	0.378	0.361	0.344	0.338	0.303	0.256	0.338	13.32
13) C bromomethane	0.484	0.447	0.441	0.435	0.436	0.423	0.397	0.370	0.429	7.95
14) C chloroethane	0.278	0.252	0.247	0.241	0.240	0.235	0.223	0.215	0.241	7.91
15) ethanol			0.555	0.415	0.439	0.425	0.387	0.347	0.428	16.44
16) dichlorofluoromethane	1.024	0.939	0.918	0.835	0.836	0.865	0.800	0.738	0.869	10.23
17) C vinyl bromide	0.454	0.431	0.419	0.417	0.414	0.412	0.388	0.360	0.412	6.82
18) C acrolein		0.319	0.243	0.235	0.233	0.249	0.236	0.226	0.249	12.72
19) acetone	0.763	0.691	0.684	0.580	0.576	0.579	0.527	0.470	0.609	15.83
20) C acetonitrile	0.495	0.461	0.438	0.396	0.404	0.427	0.401	0.378	0.425	9.08
21) trichlorofluoromethane	0.830	0.780	0.777	0.763	0.761	0.747	0.692	0.650	0.750	7.42
22) isopropyl alcohol	0.896	0.826	0.807	0.794	0.799	0.803	0.736	0.668	0.791	8.38
23) C acrylonitrile	0.559	0.488	0.465	0.429	0.440	0.463	0.436	0.414	0.462	9.92
24) pentane	0.983	1.002	0.969	0.874	0.869	0.916	0.843	0.824	0.910	7.45
25) ethyl ether	1.071	0.985	0.951	0.876	0.870	0.937	0.982	0.952	0.953	6.75
26) C 1,1-dichloroethene	0.756	0.688	0.687	0.686	0.680	0.681	0.632	0.602	0.676	6.66
27) tertiary butyl alcohol		0.985	0.965	0.899	0.901	0.940	0.895	0.860	0.921	4.79
28) C methylene chloride		0.681	0.673	0.642	0.636	0.739	0.682	0.640	0.670	5.41
29) C 3-chloropropene	0.882	0.812	0.745	0.737	0.747	0.743	0.688	0.636	0.749	9.89
30) C carbon disulfide	1.832	1.689	1.701	1.707	1.736	1.723	1.564	1.396	1.668	7.93
31) Freon 113	1.103	0.999	1.002	1.007	0.990	0.968	0.887	0.815	0.971	8.92
32) trans-1,2-dichloroethene	0.751	0.739	0.724	0.710	0.715	0.710	0.660	0.621	0.704	6.09
33) C 1,1-dichloroethane	0.986	0.924	0.910	0.905	0.905	0.888	0.825	0.766	0.889	7.47
34) C MTBE	1.456	1.376	1.347	1.326	1.321	1.316	1.234	1.130	1.313	7.36
35) C vinyl acetate			1.286	1.208	1.236	1.265	1.178	1.077	1.208	6.21
36) C 2-butanone		1.293	1.295	1.227	1.241	1.231	1.213	1.057	1.222	6.52



Initial Calibration Summary

Form 6

Air Volatiles

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRLAB17
 Calibration dates : 01/07/24 22:14 01/08/24 02:55

Lab Number : L2403288
 Project Number : BK-001
 Ical Ref : ICAL20743

Calibration Files

0.2 =r1737676.D 0.5 =r1737677.D 1.0 =r1737678.D 5.0 =r1737679.D 10 =r1737680.D 20 =r1737681.D
 50 =r1737682.D 100 =r1737683.D

	Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
37)	cis-1,2-dichloroethene	0.727	0.676	0.681	0.675	0.675	0.664	0.616	0.582	0.662	6.68
38)	Ethyl Acetate	0.172	0.170	0.174	0.172	0.172	0.172	0.167	0.160	0.170	2.61
39) C	chloroform	1.061	0.974	0.964	0.961	0.950	0.935	0.867	0.806	0.940	8.07
40)	Tetrahydrofuran	0.729	0.699	0.713	0.703	0.713	0.709	0.665	0.616	0.693	5.20
41)	2,2-dichloropropane	0.826	0.765	0.756	0.720	0.721	0.752	0.699	0.651	0.736	7.01
42) C	1,2-dichloroethane	0.655	0.584	0.548	0.527	0.528	0.514	0.478	0.450	0.536	11.81
43) I	1,4-difluorobenzene	-----ISTD-----									
44) C	hexane	0.375	0.344	0.336	0.327	0.325	0.329	0.312	0.299	0.331	6.79
45)	diisopropyl ether	0.194	0.182	0.173	0.165	0.166	0.175	0.170	0.167	0.174	5.63
46)	tert-butyl ethyl ether	0.626	0.592	0.596	0.558	0.558	0.592	0.567	0.554	0.580	4.39
47) s	1,2-dichloroethane-D4	0.311	0.308	0.312	0.309	0.304	0.300	0.298	0.298	0.305	1.89
48) C	1,1,1-trichloroethane	0.315	0.283	0.283	0.284	0.286	0.284	0.293	0.277	0.288	4.09
49)	1,1-dichloropropene	0.353	0.317	0.322	0.302	0.304	0.320	0.300	0.282	0.312	6.71
50) C	benzene	0.827	0.760	0.759	0.750	0.751	0.737	0.693	0.651	0.741	6.95
51)	thiophene	0.605	0.570	0.551	0.486	0.486	0.559	0.532	0.512	0.538	7.76
52) C	carbon tetrachloride	0.283	0.267	0.259	0.272	0.280	0.281	0.269	0.258	0.271	3.54
53)	cyclohexane	0.399	0.362	0.355	0.349	0.348	0.352	0.335	0.331	0.354	5.91
54)	tert-amyl methyl ether	0.638	0.604	0.591	0.564	0.567	0.600	0.566	0.540	0.584	5.24
55)	dibromomethane	0.221	0.208	0.199	0.190	0.191	0.202	0.190	0.184	0.198	6.04
56) C	1,2-dichloropropane	0.238	0.229	0.230	0.232	0.233	0.231	0.218	0.210	0.228	3.91
57)	bromodichloromethane	0.365	0.334	0.334	0.348	0.356	0.361	0.348	0.335	0.348	3.56
58) C	1,4-dioxane	0.149	0.140	0.139	0.143	0.144	0.147	0.141	0.139	0.143	2.61
59) C	trichloroethene	0.297	0.286	0.283	0.287	0.286	0.284	0.271	0.263	0.282	3.70
60) C	2,2,4-trimethylpentane	1.310	1.222	1.206	1.042	1.041	1.041	0.985	0.943	1.099	11.83
61)	methyl methacrylate		0.243	0.243	0.247	0.253	0.258	0.249	0.238	0.247	2.76
62)	heptane	0.513	0.480	0.476	0.474	0.472	0.471	0.436	0.404	0.466	6.96
63) C	cis-1,3-dichloropropene	0.388	0.362	0.364	0.379	0.384	0.382	0.365	0.345	0.371	3.95
64) C	4-methyl-2-pentanone		0.578	0.554	0.565	0.570	0.571	0.533	0.496	0.552	5.23
65)	trans-1,3-dichloropropene	0.285	0.278	0.272	0.298	0.305	0.306	0.294	0.283	0.290	4.28
66) C	1,1,2-trichloroethane	0.265	0.264	0.257	0.259	0.259	0.254	0.238	0.229	0.253	5.08
67) I	chlorobenzene-D5	-----ISTD-----									
68) C	toluene	6.095	5.683	5.705	5.569	5.598	5.545	5.080	4.706	5.498	7.69
69) s	toluene-D8	7.594	7.365	7.714	7.475	7.396	7.424	7.240	7.105	7.414	2.57
70)	2-methylthiophene	6.163	5.693	5.765	4.877	4.896	5.649	5.120	4.681	5.356	9.90
71)	1,3-dichloropropane	3.042	2.844	2.882	2.707	2.696	2.864	2.644	2.405	2.760	6.97
72)	2-hexanone	3.334	3.301	3.441	3.787	3.854	3.958	3.611	3.241	3.566	7.74



Initial Calibration Summary

Form 6

Air Volatiles

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRLAB17
 Calibration dates : 01/07/24 22:14 01/08/24 02:55

Lab Number : L2403288
 Project Number : BK-001
 Ical Ref : ICAL20743

Calibration Files

0.2 =r1737676.D 0.5 =r1737677.D 1.0 =r1737678.D 5.0 =r1737679.D 10 =r1737680.D 20 =r1737681.D
 50 =r1737682.D 100 =r1737683.D

	Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
73)	3-methylthiophene	6.028	5.564	5.642	4.809	4.789	5.570	5.049	4.621	5.259	9.65
74)	dibromochloromethane	2.158	2.137	2.249	2.350	2.462	2.562	2.387	2.264	2.321	6.34
75) C	1,2-dibromoethane	3.014	2.857	2.900	2.936	2.918	2.903	2.653	2.425	2.826	6.81
76)	butyl acetate		0.590	0.618	0.633	0.651	0.694	0.651	0.606	0.635	5.42
77)	octane	2.232	2.079	2.070	1.909	1.907	2.042	1.922	1.806	1.996	6.76
78) C	tetrachloroethene	2.453	2.269	2.226	2.222	2.233	2.215	2.054	1.889	2.195	7.48
79)	1,1,1,2-tetrachloroethane	1.970	1.895	1.943	1.867	1.895	2.031	1.888	1.759	1.906	4.20
80) C	chlorobenzene	5.323	4.891	4.868	4.852	4.831	4.765	4.366	3.881	4.722	9.04
81) C	ethylbenzene	7.405	7.057	7.090	7.142	7.197	7.061	6.510	5.951	6.927	6.76
82)	2-ethylthiophene	6.479	6.023	6.278	5.453	5.515	6.298	5.648	5.123	5.852	8.29
83) C	m+p-xylene	6.077	5.544	5.714	5.642	5.696	5.551	5.068	4.613	5.488	8.19
84) C	bromoform	1.544	1.506	1.606	1.827	1.950	2.068	1.977	1.879	1.794	11.96
85) C	styrene	4.860	4.631	4.680	4.846	4.954	4.838	4.409	3.935	4.644	7.19
86) C	1,1,2,2-tetrachloroethane	4.430	4.256	4.279	4.265	4.275	4.239	3.916	3.446	4.138	7.60
87) C	o-xylene	6.004	5.639	5.762	5.678	5.683	5.565	5.068	4.540	5.492	8.48
88)	1,2,3-trichloropropane	3.638	3.461	3.464	3.194	3.198	3.396	3.166	2.894	3.301	7.06
89)	nonane	5.953	5.674	5.693	5.243	5.202	5.356	4.726	4.066	5.239	11.54
90) s	bromofluorobenzene	4.465	4.405	4.746	4.618	4.573	4.626	4.422	4.467	4.540	2.63
91) C	isopropylbenzene	8.398	7.778	7.897	7.290	7.167	7.540	6.770	5.940	7.347	10.26
92)	bromobenzene	4.724	4.446	4.502	4.135	4.125	4.376	4.046	3.649	4.250	7.82
93)	2-chlorotoluene	2.323	2.149	2.251	2.067	2.088	2.215	2.079	1.945	2.139	5.62
94)	n-propylbenzene	2.485	2.362	2.431	2.237	2.252	2.424	2.310	2.157	2.332	4.84
95)	4-chlorotoluene	2.165	2.055	2.052	1.995	2.023	2.133	2.032	1.911	2.046	3.85
96)	4-ethyl toluene	8.309	7.851	8.037	7.791	7.719	7.724	6.997	6.139	7.571	9.09
97)	1,3,5-trimethylbenzene	7.379	6.716	6.961	6.848	6.703	6.533	5.878	5.213	6.529	10.41
98)	tert-butylbenzene	7.354	6.842	6.966	6.389	6.384	6.646	6.048	5.150	6.472	10.33
99)	1,2,4-trimethylbenzene	7.235	6.906	6.906	6.793	6.770	6.527	5.837	5.004	6.497	11.20
100)	decane	5.412	5.109	5.185	4.800	4.807	5.073	4.740	4.349	4.934	6.66
101) C	Benzyl Chloride	2.903	2.963	3.171	3.499	3.834	4.269	4.245	4.041	3.616	15.50
102)	1,3-dichlorobenzene	4.141	3.825	3.987	4.000	4.100	4.026	3.752	3.422	3.907	6.02
103) C	1,4-dichlorobenzene	3.780	3.706	3.836	3.940	4.071	3.952	3.737	3.412	3.804	5.27
104)	sec-butylbenzene	1.039	0.996	1.012	0.907	0.898	0.933	0.849	0.733	0.921	10.81
105)	1,2,3-trimethylbenzene	6.846	6.332	6.483	6.182	6.103	6.012	5.418	4.627	6.000	11.49
106)	p-isopropyltoluene	9.067	8.440	8.470	7.656	7.689	7.974	7.241	6.128	7.833	11.44
107)	1,2-dichlorobenzene	4.029	3.741	3.822	3.729	3.857	3.802	3.529	3.286	3.724	6.06
108)	n-butylbenzene	7.179	6.990	7.154	6.525	6.532	6.933	6.494	5.932	6.717	6.32



Initial Calibration Summary

Form 6

Air Volatiles

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRLAB17
 Calibration dates : 01/07/24 22:14 01/08/24 02:55

Lab Number : L2403288
 Project Number : BK-001
 Ical Ref : ICAL20743

Calibration Files

0.2 =r1737676.D 0.5 =r1737677.D 1.0 =r1737678.D 5.0 =r1737679.D 10 =r1737680.D 20 =r1737681.D
 50 =r1737682.D 100 =r1737683.D

	Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
109)	indan	6.772	6.557	6.667	6.329	6.276	6.357	5.905	5.324	6.273	7.45
110)	indene	4.256	4.171	4.290	4.094	4.166	4.333	4.139	3.850	4.162	3.60
111) C	1,2-dibromo-3-chloropr...	1.372	1.421	1.538	1.464	1.544	1.729	1.703	1.557	1.541	8.17
112)	undecane	5.546	5.368	5.544	5.133	5.151	5.477	5.143	4.777	5.267	5.06
113)	1,2,4,5-tetramethylben...	0.685	0.653	0.657	0.634	0.654	0.663	0.649	0.632	0.653	2.55
114)	dodecane	4.878	5.061	5.229	4.908	5.126	5.401	5.161	4.753	5.065	4.15
115) C	1,2,4-trichlorobenzene	1.964	2.163	2.331	2.479	2.743	2.662	2.751	2.657	2.469	11.81
116)	naphthalene	6.483	6.456	7.164	6.088	6.591	7.391	7.578	7.123	6.859	7.66
117)	1,2,3-trichlorobenzene	1.934	2.071	2.176	1.849	2.077	2.307	2.444	2.341	2.150	9.57
118)	benzothiophene	1.009	1.158	1.350	1.163	1.358	1.463	1.516	1.232	1.281	13.33
119) C	hexachlorobutadiene	2.370	2.418	2.481	2.466	2.551	2.361	2.270	2.131	2.381	5.56
120)	2-methylnaphthalene			1.837	1.564	2.066	2.392	2.862	2.894	2.269	24.00
121)	1-methylnaphthalene			2.612	2.391	2.985	2.928	3.417	3.419	2.959	14.07

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Method File : TFS15_231120.M
Title : T0-14A/T0-15 SIM/Full Scan Analysis
Last Update : Tue Nov 21 15:43:18 2023
Response Via : Initial Calibration

Calibration Files

0.2 =r1540782.D 0.5 =r1540783.D 1.0 =r1540784.D 5.0 =r1540785.D 10 =r1540786.D 20 =r1540787.D
50 =r1540788.D 100 =r1540789.D

Compound		0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
-----ISTD-----											
1) I	bromochloromethane										
2)	chlorodifluoro...	1.113	1.097	1.068	0.987	0.923	0.895	0.838	0.783	0.963	12.79
3)	propylene	0.563	0.561	0.506	0.513	0.532	0.528	0.535	0.534		4.09
4)	propane	0.833	0.823	0.745	0.704	0.637	0.597	0.546	0.698		15.82
5)	dichlorodifluo...	1.296	1.302	1.281	1.228	1.135	1.004	0.965	0.900	1.139	14.28
6) C	chloromethane	0.490	0.472	0.490	0.451	0.420	0.372	0.359	0.371	0.428	12.87
7)	Freon-114	1.304	1.279	1.264	1.209	1.116	0.977	0.872	0.801	1.103	17.76
8) C	methanol		0.319	0.249	0.234	0.205	0.185	0.174	0.228		23.18
9) C	vinyl chloride	0.678	0.645	0.665	0.650	0.632	0.595	0.568	0.564	0.625	6.98
10) C	1,3-butadiene	0.489	0.464	0.473	0.437	0.415	0.380	0.348	0.343	0.419	13.58
11)	butane	0.858	0.806	0.803	0.724	0.701	0.688	0.695	0.749	0.753	8.34
12) C	acetaldehyde		0.282	0.274	0.244	0.223	0.195	0.161	0.139	0.217	25.19
13) C	bromomethane	0.566	0.537	0.535	0.520	0.507	0.471	0.443	0.423	0.500	10.02
14) C	chloroethane	0.355	0.325	0.316	0.299	0.300	0.287	0.286	0.287	0.307	7.83
15)	ethanol		0.460	0.431	0.419	0.365	0.310	0.271	0.376		19.70
16)	dichlorofluoro...	1.086	1.076	1.048	0.970	0.947	0.931	0.915	0.941	0.989	7.01
17) C	vinyl bromide	0.485	0.477	0.473	0.447	0.442	0.452	0.459	0.459	0.462	3.28
18) C	acrolein		0.257	0.263	0.237	0.235	0.224	0.212	0.200	0.232	9.75
19)	acetone	0.657	0.628	0.614	0.554	0.542	0.523	0.505	0.493	0.564	10.85
20) C	acetonitrile	0.530	0.491	0.492	0.450	0.440	0.484	0.455	0.477	0.477	6.05
21)	trichlorofluor...	0.948	0.918	0.925	0.884	0.862	0.801	0.762	0.709	0.851	10.04
22)	isopropyl alcohol	0.796	0.791	0.771	0.673	0.665	0.669	0.657	0.667	0.711	8.80
23) C	acrylonitrile	0.416	0.541	0.451	0.545	0.484	0.488	0.582	0.550	0.507	11.14
24)	pentane	1.061	1.329	1.318	1.210	1.178	1.184	1.189	1.180	1.206	7.08
25)	ethyl ether	1.240	1.273	1.266	1.198	1.174	1.169	1.098	0.955	1.172	8.94
26) C	1,1-dichloroet...	1.041	1.008	0.999	0.971	0.964	0.943	0.971	0.953	0.981	3.30
27)	tertiary butyl...		1.151	1.179	1.106	1.149	1.251	1.305	1.292	1.205	6.44
28) C	methylene chlo...		0.875	0.863	0.798	0.778	0.730	0.699	0.655	0.771	10.65
29) C	3-chloropropene	0.850	0.887	0.879	0.828	0.837	0.850	0.891	0.927	0.869	3.83
30) C	carbon disulfide	1.876	1.848	1.905	1.813	1.796	1.820	1.777	1.651	1.811	4.26
31)	Freon 113	1.183	1.156	1.150	1.102	1.083	1.060	1.111	1.081	1.116	3.86

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Method File : TFS15_231120.M
Title : T0-14A/T0-15 SIM/Full Scan Analysis
Last Update : Tue Nov 21 15:43:18 2023
Response Via : Initial Calibration

Calibration Files

0.2 =r1540782.D 0.5 =r1540783.D 1.0 =r1540784.D 5.0 =r1540785.D 10 =r1540786.D 20 =r1540787.D
50 =r1540788.D 100 =r1540789.D

Compound		0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
32)	trans-1,2-dich...	1.014	0.973	1.002	0.933	0.937	0.974	1.020	1.002	0.982	3.41
33) C	1,1-dichloroet...	1.278	1.272	1.240	1.214	1.204	1.179	1.248	1.265	1.238	2.87
34) C	MTBE	1.539	1.533	1.547	1.470	1.446	1.460	1.464	1.494	1.494	2.69
35) C	vinyl acetate	1.279	1.236	1.288	1.126	1.191	1.266	1.333	1.371	1.261	6.14
36) C	2-butanone	1.382	1.406	1.289	1.277	1.293	1.323	1.336	1.329		3.70
37)	cis-1,2-dichlo...	0.955	0.925	0.943	0.928	0.926	0.919	0.962	0.940	0.937	1.64
38)	Ethyl Acetate	0.232	0.257	0.241	0.239	0.252	0.266	0.250	0.248		4.67
39) C	chloroform	1.375	1.331	1.322	1.269	1.248	1.180	1.096	0.992	1.226	10.61
40)	Tetrahydrofuran	0.828	0.843	0.801	0.796	0.819	0.849	0.876	0.830		3.39
41)	2,2-dichloropr...	0.848	0.897	0.892	0.839	0.834	0.831	0.784	0.744	0.834	6.08
42) C	1,2-dichloroet...	0.878	0.790	0.767	0.739	0.729	0.693	0.681	0.665	0.743	9.31
43) I	1,4-difluorobenzene	-----ISTD-----									
44) C	hexane	0.480	0.478	0.472	0.447	0.447	0.446	0.407	0.323	0.437	11.89
45)	diisopropyl ether	0.228	0.234	0.234	0.228	0.226	0.229	0.213	0.178	0.221	8.40
46)	tert-butyl eth...	0.789	0.768	0.780	0.748	0.759	0.758	0.732	0.667	0.750	5.06
47) s	1,2-dichloroet...	0.366	0.381	0.373	0.382	0.379	0.372	0.360	0.357	0.371	2.55
48) C	1,1,1-trichlor...	0.332	0.334	0.338	0.332	0.330	0.320	0.308	0.291	0.323	4.96
49)	1,1-dichloropr...	0.347	0.343	0.344	0.333	0.328	0.323	0.300	0.279	0.325	7.26
50) C	benzene	0.873	0.865	0.862	0.847	0.834	0.790	0.732	0.672	0.809	9.00
51)	thiophene								0.000		-1.00
52) C	carbon tetrach...	0.313	0.304	0.310	0.321	0.325	0.307	0.277	0.253	0.301	8.03
53)	cyclohexane	0.512	0.500	0.506	0.478	0.477	0.483	0.457	0.400	0.477	7.49
54)	tert-amyl meth...	0.631	0.626	0.627	0.607	0.610	0.609	0.586	0.562	0.607	3.83
55)	dibromomethane	0.245	0.243	0.244	0.233	0.234	0.237	0.233	0.206	0.235	5.38
56) C	1,2-dichloropr...	0.313	0.298	0.297	0.294	0.296	0.290	0.293	0.271	0.294	3.97
57)	bromodichlorom...	0.404	0.430	0.423	0.421	0.425	0.420	0.378	0.328	0.404	8.59
58) C	1,4-dioxane	0.192	0.188	0.189	0.185	0.189	0.195	0.190	0.163	0.187	5.29
59) C	trichloroethene	0.329	0.330	0.326	0.322	0.326	0.313	0.321	0.288	0.319	4.35
60) C	2,2,4-trimethy...	1.576	1.564	1.566	1.487	1.487	1.491	1.350	1.127	1.456	10.40
61)	methyl methacr...	0.277	0.280	0.275	0.281	0.285	0.277	0.268	0.277		1.95
62)	heptane	0.514	0.509	0.518	0.491	0.484	0.476	0.445	0.410	0.481	7.72

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Method File : TFS15_231120.M
Title : T0-14A/T0-15 SIM/Full Scan Analysis
Last Update : Tue Nov 21 15:43:18 2023
Response Via : Initial Calibration

Calibration Files

0.2 =r1540782.D 0.5 =r1540783.D 1.0 =r1540784.D 5.0 =r1540785.D 10 =r1540786.D 20 =r1540787.D
50 =r1540788.D 100 =r1540789.D

	Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
63)	C cis-1,3-dichlo...	0.367	0.364	0.368	0.401	0.408	0.392	0.368	0.349	0.377	5.50
64)	C 4-methyl-2-pen...		0.578	0.565	0.557	0.560	0.551	0.519	0.487	0.545	5.74
65)	trans-1,3-dich...	0.271	0.285	0.293	0.322	0.330	0.317	0.300	0.285	0.301	6.89
66)	C 1,1,2-trichlor...	0.292	0.295	0.293	0.292	0.296	0.289	0.297	0.281	0.292	1.74
67)	I chlorobenzene-D5	-----ISTD-----									
68)	C toluene	5.880	5.749	5.633	5.638	5.710	5.594	5.951	5.718	5.734	2.17
69)	s toluene-D8	7.131	7.199	7.076	6.994	7.114	7.387	8.535	9.641	7.635	12.46
70)	2-methylthiophene									0.000	-1.00
71)	1,3-dichloropr...	2.684	2.666	2.643	2.520	2.486	2.435	2.479	2.477	2.549	3.88
72)	2-hexanone	2.871	2.954	3.027	2.943	3.013	3.057	3.221	3.321	3.051	4.91
73)	3-methylthiophene									0.000	-1.00
74)	dibromochlorom...	1.958	1.971	2.092	2.148	2.271	2.374	2.533	2.494	2.230	10.04
75)	C 1,2-dibromoethane	2.540	2.522	2.578	2.591	2.568	2.488	2.706	2.747	2.593	3.45
76)	butyl acetate		0.557	0.583	0.606	0.621	0.624	0.680	0.713	0.626	8.68
77)	octane	2.288	2.339	2.332	2.204	2.202	2.236	2.275	2.130	2.251	3.17
78)	C tetrachloroethene	2.426	2.264	2.264	2.269	2.278	2.238	2.354	2.317	2.301	2.69
79)	1,1,1,2-tetrac...	1.726	1.757	1.771	1.782	1.804	1.891	1.956	1.806	1.812	4.17
80)	C chlorobenzene	4.696	4.605	4.530	4.523	4.521	4.311	4.464	4.200	4.481	3.54
81)	C ethylbenzene	7.195	7.212	7.163	7.302	7.430	7.319	7.772	7.355	7.343	2.65
82)	2-ethylthiophene									0.000	-1.00
83)	C m+p-xylene	5.810	5.774	5.872	5.893	5.942	5.807	5.946	5.293	5.792	3.65
84)	C bromoform	1.486	1.614	1.642	1.873	2.014	2.197	2.340	2.335	1.938	17.37
85)	C styrene	4.444	4.550	4.598	4.631	4.722	4.652	4.939	5.015	4.694	4.13
86)	C 1,1,2,2-tetrac...	4.509	4.496	4.470	4.656	4.680	4.439	4.137	3.470	4.357	9.06
87)	C o-xylene	5.965	5.887	5.916	5.986	6.079	5.882	5.694	4.810	5.778	7.03
88)	1,2,3-trichlor...	3.313	3.332	3.325	3.201	3.187	3.151	3.170	3.170	3.231	2.41
89)	nonane	4.932	4.817	4.777	4.620	4.559	4.463	4.393	4.116	4.585	5.74
90)	s bromofluoroben...	4.513	4.626	4.582	4.445	4.668	4.972	5.712	6.263	4.973	13.31
91)	C isopropylbenzene	7.281	7.469	7.465	7.283	7.212	7.281	7.487	7.256	7.342	1.52
92)	bromobenzene	4.496	4.462	4.384	4.251	4.245	4.176	4.157	4.005	4.272	3.90
93)	2-chlorotoluene	2.103	2.102	2.167	2.142	2.214	2.295	2.417	2.330	2.221	5.18

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Method File : TFS15_231120.M
Title : T0-14A/T0-15 SIM/Full Scan Analysis
Last Update : Tue Nov 21 15:43:18 2023
Response Via : Initial Calibration

Calibration Files

0.2 =r1540782.D 0.5 =r1540783.D 1.0 =r1540784.D 5.0 =r1540785.D 10 =r1540786.D 20 =r1540787.D
50 =r1540788.D 100 =r1540789.D

Compound		0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
94)	n-propylbenzene	2.522	2.588	2.532	2.605	2.645	2.675	2.730	2.604	2.613	2.67
95)	4-chlorotoluene	2.168	2.080	2.123	2.152	2.221	2.285	2.423	2.405	2.232	5.74
96)	4-ethyl toluene	7.660	7.584	7.734	7.713	7.742	7.735	8.105	7.755	7.753	1.97
97)	1,3,5-trimethy...	6.775	6.729	6.860	7.865	7.865	6.614	7.638	7.262	7.201	7.31
98)	tert-butylbenzene	7.395	7.289	7.476	7.540	7.381	7.173	6.606	5.483	7.043	9.86
99)	1,2,4-trimethy...	6.397	6.656	6.745	7.064	7.102	6.559	6.237	5.117	6.485	9.68
100)	decane	6.011	6.168	6.244	6.335	6.479	6.381	6.203	5.265	6.136	6.19
101) C	Benzyl Chloride	2.660	2.824	3.063	3.807	4.307	4.678	5.141	4.728	3.901	24.51
102)	1,3-dichlorobe...	4.354	4.413	4.496	4.833	4.814	4.630	4.846	4.427	4.602	4.48
103) C	1,4-dichlorobe...	4.257	4.251	4.324	4.721	4.744	4.610	4.867	4.593	4.546	5.25
104)	sec-butylbenzene	9.331	9.665	9.549	9.654	9.615	9.428	9.663	8.673	9.447	3.55
105)	1,2,3-trimethy...	5.632	5.905	5.866	5.578	5.148	5.597	5.229	4.051	5.375	11.13
106)	p-isopropyltol...	8.354	8.895	8.866	8.479	7.556	8.116	7.434	5.480	7.897	14.12
107)	1,2-dichlorobe...	3.997	4.157	4.062	4.566	4.643	4.401	4.551	4.256	4.329	5.70
108)	n-butylbenzene	6.895	7.258	7.386	7.801	8.115	8.001	8.041	7.068	7.571	6.31
109)	indan	6.503	6.643	6.734	6.953	6.995	7.019	6.928	6.398	6.772	3.52
110)	indene	3.830	4.209	4.266	4.487	4.523	4.631	4.804	4.602	4.419	6.93
111) C	1,2-dibromo-3-...	1.216	1.383	1.444	1.607	1.649	1.624	1.724	1.672	1.540	11.34
112)	undecane	5.605	6.470	6.678	7.156	7.444	7.128	6.771	5.395	6.581	11.18
113)	1,2,4,5-tetram...	1.001	1.128	1.178	1.605	1.674	1.238	1.357	1.376	1.320	17.57
114)	dodecane	3.443	5.521	6.418	6.841	7.807	7.052	6.517	5.081	6.085	22.46
115) C	1,2,4-trichlor...	2.101	2.662	2.895	3.519	4.062	3.752	4.171	3.742	3.363	21.81
116)	naphthalene	0.576	0.767	0.821	0.894	1.009	0.973	1.033	0.946	0.877	17.34
117)	1,2,3-trichlor...	1.867	2.534	2.755	2.928	3.415	3.279	3.635	3.445	2.982	19.70
118)	benzothiophene		1.246	1.399	1.824	2.093	1.682	1.737	1.355	1.620	18.57
119) C	hexachlorobuta...	2.190	2.714	2.796	3.056	3.353	2.943	3.139	2.622	2.852	12.55
120)	2-methylnaphth...			1.801	2.850	4.083	3.331	4.315	4.555	3.489	29.93
121)	1-methylnaphth...			2.005	3.097	4.396	3.148	4.007	4.275	3.488	26.22

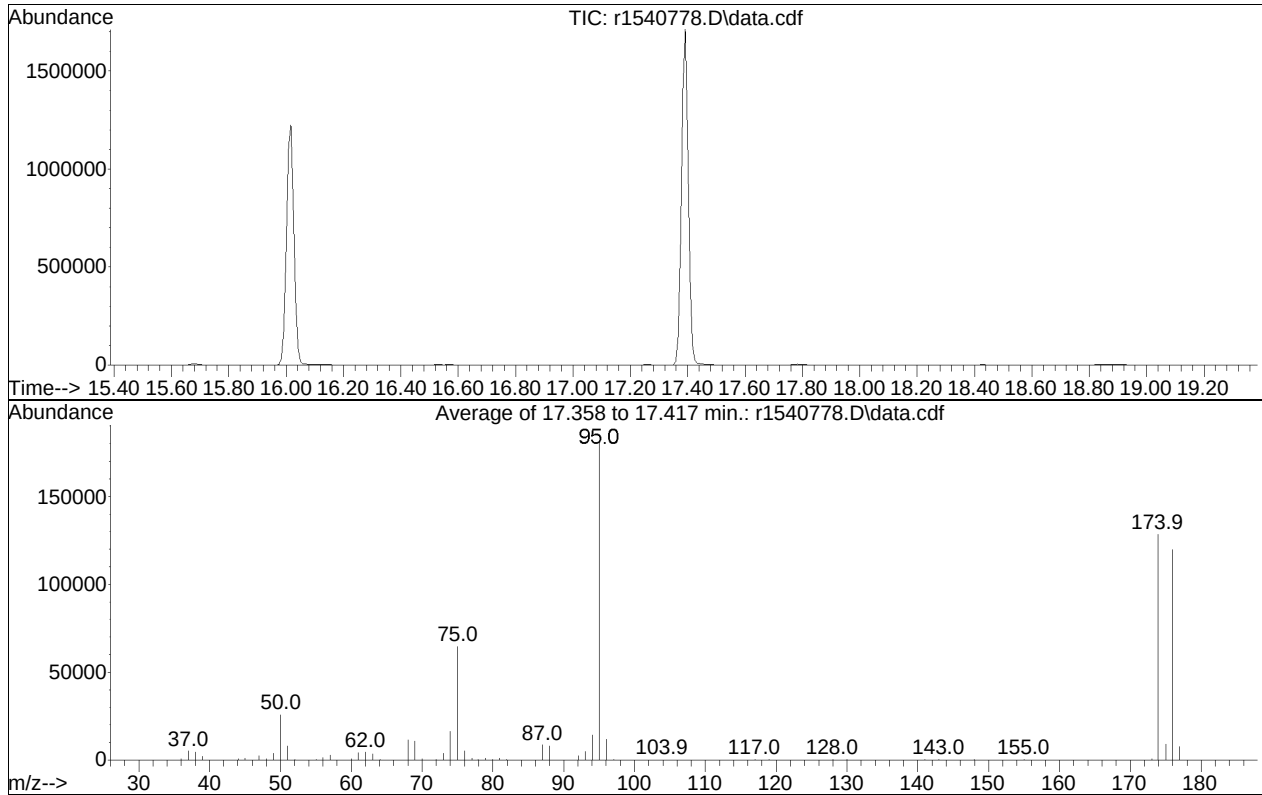
(#) = Out of Range

BFB

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540778.D
 Acq On : 20 Nov 2023 7:17 PM
 Operator : AIRLAB15:RAY
 Sample : WG1855304-1,3,250,250
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Tue Nov 21 15:43:18 2023



Spectrum Information: Average of 17.358 to 17.417 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	14.2	25835	PASS
75	95	30	66	35.5	64580	PASS
95	95	100	100	100.0	181779	PASS
96	95	5	9	6.5	11770	PASS
173	174	0.00	2	0.5	704	PASS
174	95	50	120	70.7	128569	PASS
175	174	4	9	7.1	9128	PASS
176	174	93	101	93.1	119714	PASS
177	176	5	9	6.4	7707	PASS

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540782.D
 Acq On : 20 Nov 2023 9:44 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD0.2
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:58:27 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 09:57:31 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.075	49	333899	10.000	ppbV	0.00
Standard Area = 345270			Recovery =		96.71%	
43) 1,4-difluorobenzene	11.293	114	964303	10.000	ppbV	0.00
Standard Area = 974868			Recovery =		98.92%	
67) chlorobenzene-D5	16.008	54	161932	10.000	ppbV	0.00
Standard Area = 166825			Recovery =		97.07%	
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.933	65	353006	8.678	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		86.78%	
69) toluene-D8	14.142	98	1154786	8.872	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		88.72%	
90) bromofluorobenzene	17.392	95	730858	8.617	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		86.17%	
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.892	51	7431	0.243	ppbV #	94
3) propylene	3.922	41	4049M6	0.194	ppbV	
4) propane	3.946	29	6068	0.244	ppbV	99
5) dichlorodifluoromethane	3.994	85	8654	0.274	ppbV	94
6) chloromethane	4.156	50	3272	0.160	ppbV	96
7) Freon-114	4.264	85	8711	0.229	ppbV	91
8) methanol	4.336	31	11050	1.121	ppbV #	22
9) vinyl chloride	4.384	62	4525	0.227	ppbV	94
10) 1,3-butadiene	4.528	54	3268	0.202	ppbV	90
11) butane	4.582	43	5732	0.159	ppbV	96
12) acetaldehyde	4.288	29	9478	0.813	ppbV	95
13) bromomethane	4.810	94	3781	0.251	ppbV	97
14) chloroethane	5.002	64	2369	0.245	ppbV	99
15) ethanol	5.146	31	15831	1.022	ppbV	98
16) dichlorofluoromethane	5.110	67	7249	0.213	ppbV	95
17) vinyl bromide	5.377	106	3240	0.218	ppbV	85
18) acrolein	5.510	56	1874	0.207	ppbV #	84
19) acetone	5.663	43	21945	0.854	ppbV #	99
20) acetonitrile	5.380	41	3540M4	0.175	ppbV	
21) trichlorofluoromethane	5.833	101	6333	0.268	ppbV	99
22) isopropyl alcohol	5.953	45	13294	0.364	ppbV #	92
23) acrylonitrile	6.170	53	2776	0.157	ppbV #	84
24) pentane	6.230	43	7086	0.137	ppbV #	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540782.D
 Acq On : 20 Nov 2023 9:44 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD0.2
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:58:27 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 09:57:31 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.270	31	8281	0.219	ppbV	98
26) 1,1-dichloroethene	6.534	61	6951	0.222	ppbV	97
27) tertiary butyl alcohol	6.630	59	7766	0.202	ppbV #	89
28) methylene chloride	6.678	49	6224	0.234	ppbV	88
29) 3-chloropropene	6.804	41	5679	0.153	ppbV	89
30) carbon disulfide	6.978	76	12531	0.231	ppbV #	78
31) Freon 113	6.972	101	7901	0.224	ppbV	94
32) trans-1,2-dichloroethene	7.725	61	6769	0.221	ppbV	99
33) 1,1-dichloroethane	7.942	63	8534	0.209	ppbV	98
34) MTBE	8.033	73	10277	0.201	ppbV #	95
35) vinyl acetate	8.133	43	8543	0.159	ppbV	99
36) 2-butanone	8.408	43	9426	0.168	ppbV	98
37) cis-1,2-dichloroethene	8.892	61	6379	0.214	ppbV	93
38) Ethyl Acetate	9.175	61	1661	0.209	ppbV	73
39) chloroform	9.225	83	9179	0.268	ppbV	100
40) Tetrahydrofuran	9.700	42	5883	0.167	ppbV	94
41) 2,2-dichloropropane	9.250	77	5660	0.215	ppbV #	86
42) 1,2-dichloroethane	10.058	62	5860	0.255	ppbV #	93
44) hexane	9.142	57	9252	0.202	ppbV #	52
45) diisopropyl ether	9.150	87	4402	0.201	ppbV	85
46) tert-butyl ethyl ether	9.767	59	15213	0.185	ppbV	97
48) 1,1,1-trichloroethane	10.350	97	6408	0.195	ppbV	96
49) 1,1-dichloropropene	10.713	75	6689	0.186	ppbV	97
50) benzene	10.873	78	16828	0.201	ppbV	99
51) thiophene	0.000		0	N.D.	d	
52) carbon tetrachloride	11.047	117	6040	0.224	ppbV	98
53) cyclohexane	11.187	56	9883	0.203	ppbV	99
54) tert-amyl methyl ether	11.580	73	12164	0.170	ppbV	98
55) dibromomethane	11.787	93	4728	0.196	ppbV	94
56) 1,2-dichloropropane	11.820	63	6032	0.180	ppbV	92
57) bromodichloromethane	12.047	83	7782	0.213	ppbV	93
58) 1,4-dioxane	12.120	88	3712	0.202	ppbV #	78
59) trichloroethene	12.100	130	6351	0.201	ppbV	96
60) 2,2,4-trimethylpentane	12.147	57	30395	0.203	ppbV	99
61) methyl methacrylate	12.347	41	5188	0.129	ppbV	99
62) heptane	12.453	43	9915	0.144	ppbV	99
63) cis-1,3-dichloropropene	13.117	75	7077	0.170	ppbV	93
64) 4-methyl-2-pentanone	13.175	43	11826	0.150	ppbV	95
65) trans-1,3-dichloropropene	13.742	75	5230	0.158	ppbV	93
66) 1,1,2-trichloroethane	13.942	97	5625	0.181	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540782.D
 Acq On : 20 Nov 2023 9:44 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD0.2
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:58:27 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 09:57:31 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.250	91	19042	0.198	ppbV	99
70) 2-methylthiophene	0.000		0	N.D.	d	
71) 1,3-dichloropropane	14.283	76	8693	0.193	ppbV	96
72) 2-hexanone	14.550	43	9298	0.125	ppbV #	92
73) 3-methylthiophene	0.000		0	N.D.	d	
74) dibromochloromethane	14.700	129	6342	0.191	ppbV	99
75) 1,2-dibromoethane	14.950	107	8227	0.189	ppbV	92
76) butyl acetate	15.192	73	1738	0.149	ppbV	94
77) octane	15.275	85	7411	0.209	ppbV	96
78) tetrachloroethene	15.400	166	7856	0.219	ppbV	96
79) 1,1,1,2-tetrachloroethane	16.033	131	5591	0.190	ppbV	97
80) chlorobenzene	16.050	112	15209	0.209	ppbV	99
81) ethylbenzene	16.400	91	23301	0.184	ppbV	96
82) 2-ethylthiophene	0.000		0	N.D.	d	
83) m+p-xylene	16.575	91	37631	0.381	ppbV	100
84) bromoform	16.633	173	4812	0.176	ppbV #	91
85) styrene	16.892	104	14392	0.184	ppbV	99
86) 1,1,2,2-tetrachloroethane	16.992	83	14603	0.197	ppbV	97
87) o-xylene	16.992	91	19319	0.195	ppbV	99
88) 1,2,3-trichloropropane	17.108	75	10731	0.190	ppbV	96
89) nonane	17.183	43	15973	0.155	ppbV	89
91) isopropylbenzene	17.500	105	23581	0.191	ppbV	99
92) bromobenzene	17.583	77	14562	0.200	ppbV	93
93) 2-chlorotoluene	17.908	126	6812	0.189	ppbV	92
94) n-propylbenzene	17.942	120	8168	0.198	ppbV	94
95) 4-chlorotoluene	17.975	126	7022	0.195	ppbV	99
96) 4-ethyl toluene	18.067	105	24808	0.190	ppbV	97
97) 1,3,5-trimethylbenzene	18.125	105	21941	0.181	ppbV	99
98) tert-butylbenzene	18.467	119	23949	0.212	ppbV	99
99) 1,2,4-trimethylbenzene	18.475	105	20719	0.187	ppbV	98
100) decane	18.550	57	19466	0.175	ppbV	91
101) Benzyl Chloride	18.592	91	8615	0.125	ppbV	96
102) 1,3-dichlorobenzene	18.600	146	14100	0.191	ppbV	100
103) 1,4-dichlorobenzene	18.658	146	13787	0.189	ppbV	97
104) sec-butylbenzene	18.692	105	30221	0.190	ppbV	94
105) 1,2,3-trimethylbenzene	18.825	105	18239	0.199	ppbV	99
106) p-isopropyltoluene	18.825	119	27055	0.221	ppbV	95
107) 1,2-dichlorobenzene	18.942	146	12944	0.181	ppbV	96
108) n-butylbenzene	19.175	91	22332	0.171	ppbV	99
109) indan	19.000	117	21062	0.192	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540782.D
 Acq On : 20 Nov 2023 9:44 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD0.2
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:58:27 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 09:57:31 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
 Sub List : Default - All compounds listed

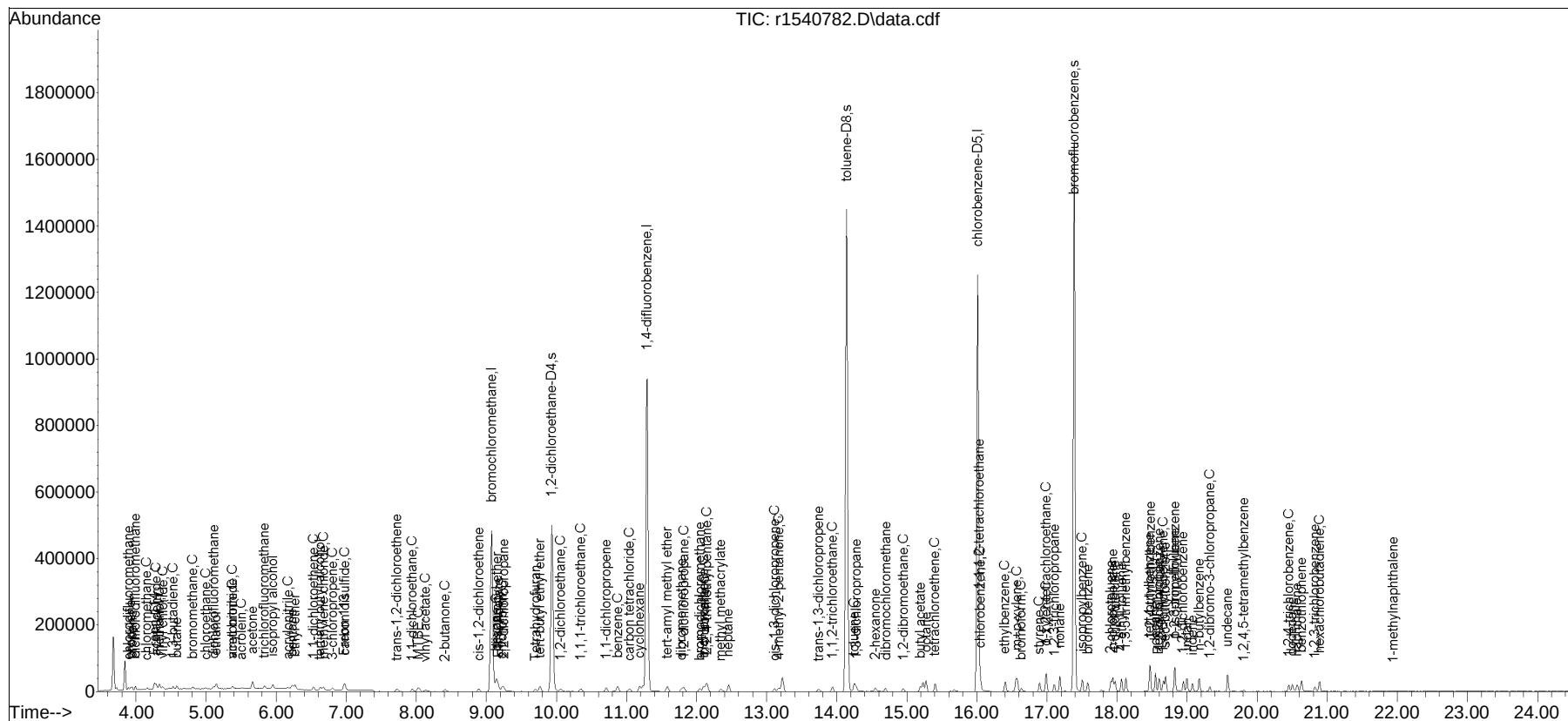
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.075	115	12404	0.167	ppbV	95
111) 1,2-dibromo-3-chloropr...	19.325	75	3937	0.154	ppbV #	72
112) undecane	19.575	57	18154	0.151	ppbV	94
113) 1,2,4,5-tetramethylben...	19.808	119	3243	0.160	ppbV	93
114) dodecane	20.500	57	11152	0.101	ppbV	90
115) 1,2,4-trichlorobenzene	20.450	180	6803	0.134	ppbV #	87
116) naphthalene	20.567	128	18647	0.127	ppbV #	95
117) 1,2,3-trichlorobenzene	20.825	180	6045	0.136	ppbV	99
118) benzothiophene	20.633	134	29463	0.117	ppbV	98
119) hexachlorobutadiene	20.892	225	7093	0.174	ppbV #	90
120) 2-methylnaphthalene	21.767		0	N.D.		
121) 1-methylnaphthalene	21.942	142	2918	0.061	ppbV #	74

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

Sub List : Default - All compounds listed3\11\1120T_I\r1540786.D

Data Path : 0:\Forensics\Data\AirLab15\2023\11\1120T_I\
Data File : r1540782.D
Acq On : 20 Nov 2023 9:44 PM
Operator : AIRLAB15:RAY
Sample : IT015-SIMSTD0.2
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

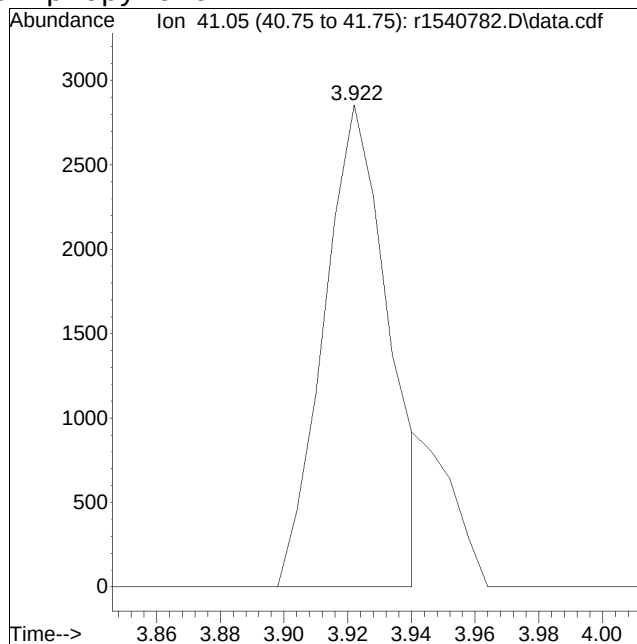
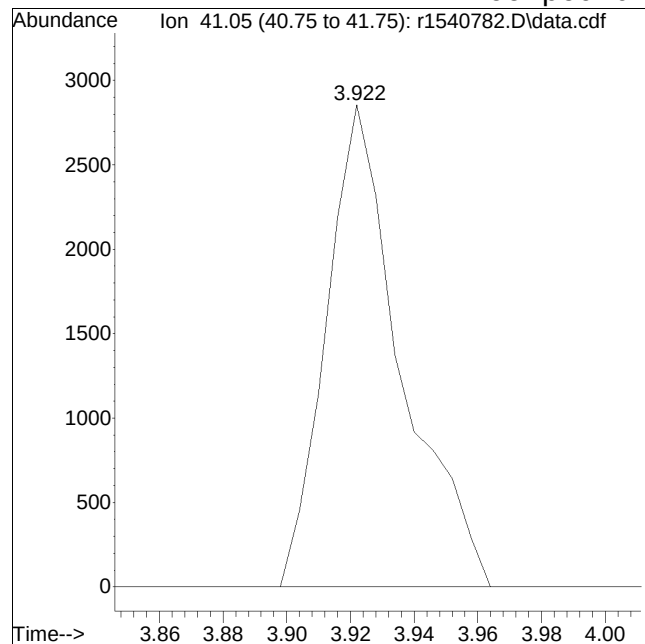
Quant Time: Nov 21 09:58:27 2023
Quant Method : 0:\Forensics\Data\AirLab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration



Manual Integration Report

Data Path : 0:\Forensics\Data\AirLab15QMethod : TFS15_231120.M
Data File : r1540782.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:9: 4 Instrument :
Sample : IT015-SIMSTD0.2 Quant Date : 11/21/2023 9:58 am

Compound #3: propylene



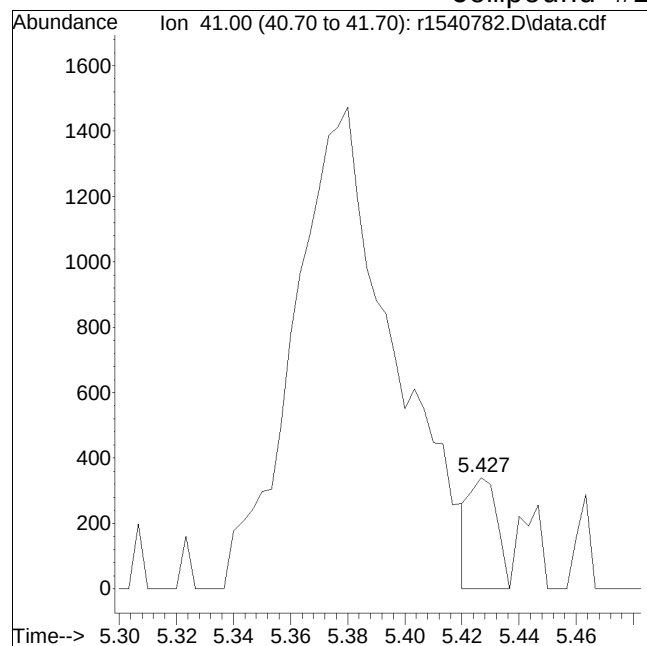
Original Peak Response = 4675

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

Manual Integration Report

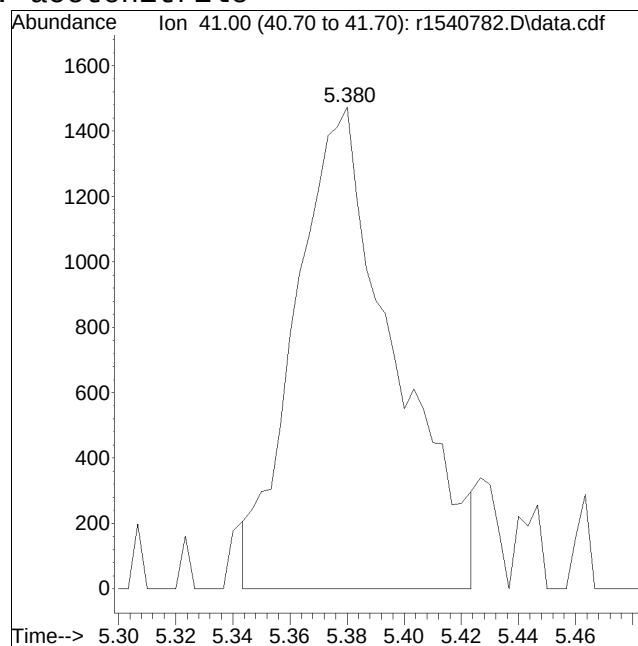
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1540782.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:9: 4 Instrument :
Sample : IT015-SIMSTD0.2 Quant Date : 11/21/2023 9:58 am

Compound #20: acetonitrile



Original Peak Response = 225

M4 = Poor automated baseline construction.



Manual Peak Response = 3540 M4

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540783.D
 Acq On : 20 Nov 2023 10:22 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD0.5
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:58:53 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 09:57:31 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.075	49	332569	10.000	ppbV	0.00
Standard Area = 345270			Recovery =		96.32%	
43) 1,4-difluorobenzene	11.293	114	958310	10.000	ppbV	0.00
Standard Area = 974868			Recovery =		98.30%	
67) chlorobenzene-D5	16.008	54	162101	10.000	ppbV	0.00
Standard Area = 166825			Recovery =		97.17%	
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.933	65	365226	9.035	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		90.35%	
69) toluene-D8	14.142	98	1167042	8.957	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		89.57%	
90) bromofluorobenzene	17.383	95	749849	8.831	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		88.31%	
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.892	51	18246	0.599	ppbV	98
3) propylene	3.928	41	9362M6	0.449	ppbV	
4) propane	3.946	29	13846	0.560	ppbV	95
5) dichlorodifluoromethane	3.994	85	21656	0.689	ppbV	98
6) chloromethane	4.162	50	7853	0.386	ppbV	99
7) Freon-114	4.264	85	21262	0.560	ppbV	98
8) methanol	4.336	31	26685	2.719	ppbV #	69
9) vinyl chloride	4.390	62	10721	0.539	ppbV	95
10) 1,3-butadiene	4.534	54	7710	0.477	ppbV	98
11) butane	4.588	43	13406	0.372	ppbV	99
12) acetaldehyde	4.294	29	23422	2.016	ppbV	98
13) bromomethane	4.816	94	8927	0.594	ppbV	96
14) chloroethane	5.002	64	5398	0.560	ppbV	94
15) ethanol	5.146	31	39328	2.549	ppbV	98
16) dichlorofluoromethane	5.110	67	17893	0.528	ppbV	97
17) vinyl bromide	5.380	106	7933	0.536	ppbV	92
18) acrolein	5.513	56	4268	0.473	ppbV #	92
19) acetone	5.663	43	52242	2.042	ppbV #	100
20) acetonitrile	5.373	41	8169	0.405	ppbV	92
21) trichlorofluoromethane	5.840	101	15269	0.650	ppbV	99
22) isopropyl alcohol	5.953	45	32885	0.903	ppbV	97
23) acrylonitrile	6.170	53	8988	0.510	ppbV	99
24) pentane	6.233	43	22106	0.430	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540783.D
 Acq On : 20 Nov 2023 10:22 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD0.5
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:58:53 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 09:57:31 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.273	31	21169	0.561	ppbV	97
26) 1,1-dichloroethene	6.534	61	16754	0.538	ppbV	97
27) tertiary butyl alcohol	6.630	59	19145	0.501	ppbV	93
28) methylene chloride	6.672	49	14553	0.548	ppbV	96
29) 3-chloropropene	6.810	41	14751	0.399	ppbV	98
30) carbon disulfide	6.984	76	30724	0.569	ppbV #	90
31) Freon 113	6.978	101	19224	0.546	ppbV	96
32) trans-1,2-dichloroethene	7.725	61	16177	0.529	ppbV	97
33) 1,1-dichloroethane	7.942	63	21157	0.519	ppbV	96
34) MTBE	8.033	73	25489	0.501	ppbV	96
35) vinyl acetate	8.133	43	20550	0.383	ppbV	99
36) 2-butanone	8.408	43	22981	0.410	ppbV	99
37) cis-1,2-dichloroethene	8.892	61	15382	0.518	ppbV	98
38) Ethyl Acetate	9.175	61	3862	0.488	ppbV	65
39) chloroform	9.225	83	22130	0.648	ppbV	99
40) Tetrahydrofuran	9.692	42	13764	0.391	ppbV	97
41) 2,2-dichloropropane	9.250	77	14910	0.570	ppbV	97
42) 1,2-dichloroethane	10.058	62	13142	0.573	ppbV	94
44) hexane	9.142	57	22916	0.503	ppbV #	60
45) diisopropyl ether	9.150	87	11225	0.516	ppbV	99
46) tert-butyl ethyl ether	9.758	59	36794	0.451	ppbV	99
48) 1,1,1-trichloroethane	10.350	97	16000	0.490	ppbV	99
49) 1,1-dichloropropene	10.713	75	16431	0.460	ppbV	98
50) benzene	10.873	78	41464	0.499	ppbV	99
51) thiophene	0.000		0	N.D.	d	
52) carbon tetrachloride	11.047	117	14554	0.542	ppbV	99
53) cyclohexane	11.193	56	23960	0.494	ppbV	99
54) tert-amyl methyl ether	11.580	73	30007	0.422	ppbV	98
55) dibromomethane	11.787	93	11650	0.487	ppbV	98
56) 1,2-dichloropropane	11.820	63	14292	0.429	ppbV	99
57) bromodichloromethane	12.047	83	20590	0.568	ppbV	97
58) 1,4-dioxane	12.113	88	9032	0.494	ppbV	93
59) trichloroethene	12.100	130	15804	0.504	ppbV	97
60) 2,2,4-trimethylpentane	12.147	57	74930	0.503	ppbV	98
61) methyl methacrylate	12.347	41	13263	0.333	ppbV	98
62) heptane	12.460	43	24376	0.357	ppbV	98
63) cis-1,3-dichloropropene	13.108	75	17456	0.421	ppbV	97
64) 4-methyl-2-pentanone	13.167	43	27689	0.354	ppbV	98
65) trans-1,3-dichloropropene	13.733	75	13679	0.417	ppbV	98
66) 1,1,2-trichloroethane	13.933	97	14136	0.457	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540783.D
 Acq On : 20 Nov 2023 10:22 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD0.5
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:58:53 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 09:57:31 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.250	91	46593	0.483	ppbV	99
70) 2-methylthiophene	0.000		0	N.D.	d	
71) 1,3-dichloropropane	14.275	76	21606	0.480	ppbV	98
72) 2-hexanone	14.550	43	23944	0.322	ppbV	94
73) 3-methylthiophene	0.000		0	N.D.	d	
74) dibromochloromethane	14.692	129	15976	0.480	ppbV	99
75) 1,2-dibromoethane	14.942	107	20437	0.469	ppbV	93
76) butyl acetate	15.183	73	4511	0.386	ppbV	86
77) octane	15.275	85	18954	0.533	ppbV	99
78) tetrachloroethene	15.400	166	18352	0.512	ppbV	97
79) 1,1,1,2-tetrachloroethane	16.033	131	14238	0.482	ppbV	99
80) chlorobenzene	16.050	112	37324	0.513	ppbV	97
81) ethylbenzene	16.400	91	58455	0.462	ppbV	99
82) 2-ethylthiophene	0.000		0	N.D.	d	
83) m+p-xylene	16.575	91	93598	0.946	ppbV	99
84) bromoform	16.633	173	13079	0.478	ppbV	97
85) styrene	16.892	104	36875	0.472	ppbV	99
86) 1,1,2,2-tetrachloroethane	16.983	83	36438	0.492	ppbV	98
87) o-xylene	16.983	91	47718	0.481	ppbV	98
88) 1,2,3-trichloropropane	17.100	75	27004	0.478	ppbV	97
89) nonane	17.183	43	39045	0.378	ppbV	92
91) isopropylbenzene	17.500	105	60534	0.490	ppbV	99
92) bromobenzene	17.583	77	36165	0.497	ppbV	99
93) 2-chlorotoluene	17.908	126	17039	0.473	ppbV	93
94) n-propylbenzene	17.942	120	20978	0.508	ppbV	99
95) 4-chlorotoluene	17.967	126	16859	0.469	ppbV	97
96) 4-ethyl toluene	18.058	105	61470	0.471	ppbV	99
97) 1,3,5-trimethylbenzene	18.125	105	54541	0.450	ppbV	98
98) tert-butylbenzene	18.467	119	59078	0.521	ppbV	99
99) 1,2,4-trimethylbenzene	18.467	105	53947	0.487	ppbV	96
100) decane	18.550	57	49991	0.448	ppbV	96
101) Benzyl Chloride	18.592	91	22891	0.331	ppbV	97
102) 1,3-dichlorobenzene	18.600	146	35771	0.483	ppbV	97
103) 1,4-dichlorobenzene	18.658	146	34456	0.471	ppbV	97
104) sec-butylbenzene	18.692	105	78336	0.493	ppbV	96
105) 1,2,3-trimethylbenzene	18.825	105	47862	0.522	ppbV	99
106) p-isopropyltoluene	18.817	119	72092	0.587	ppbV	92
107) 1,2-dichlorobenzene	18.942	146	33689	0.471	ppbV	95
108) n-butylbenzene	19.167	91	58829	0.450	ppbV	100
109) indan	18.992	117	53842	0.489	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540783.D
 Acq On : 20 Nov 2023 10:22 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD0.5
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:58:53 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 09:57:31 2023
 Response via : Initial Calibration

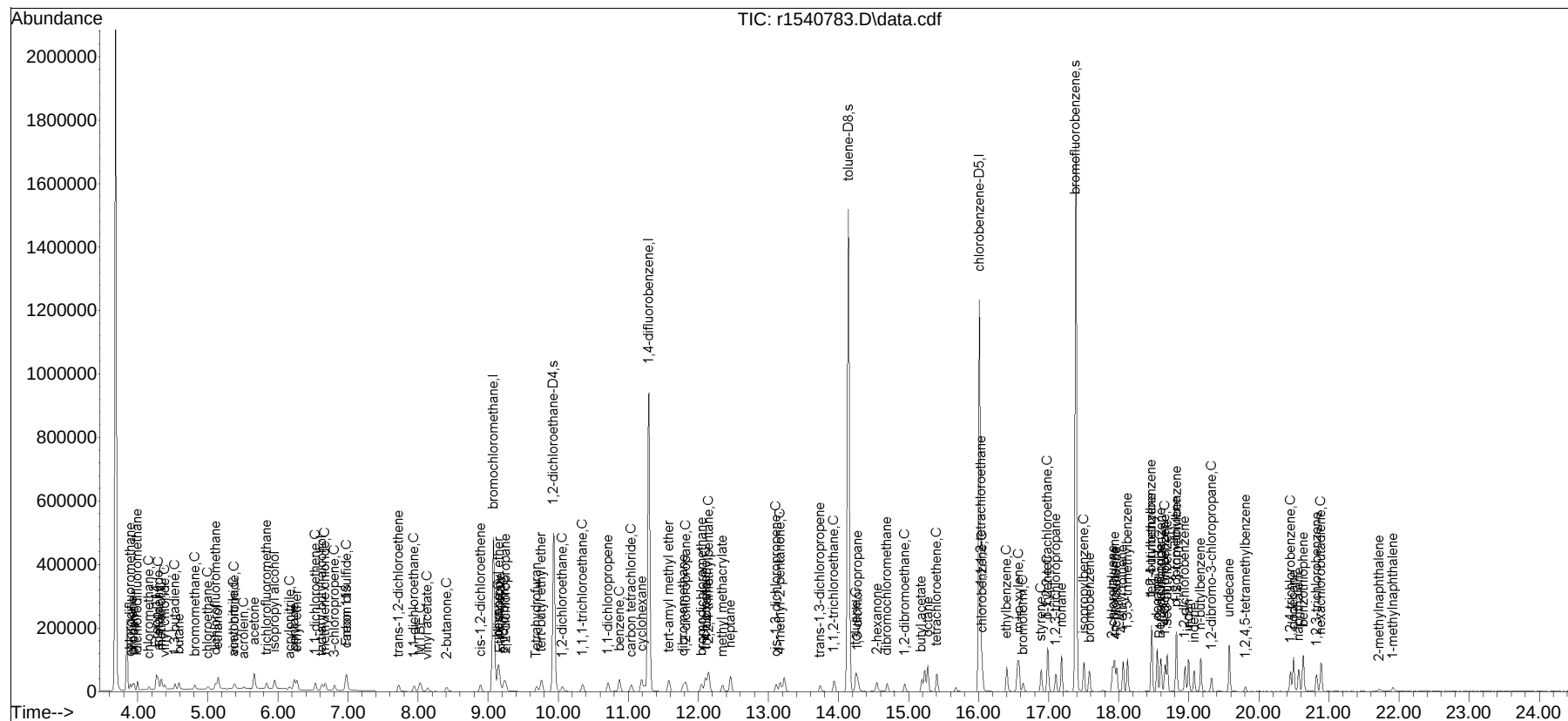
CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
110)	indene	19.075	115	34114	0.460	ppbV		97
111)	1,2-dibromo-3-chloropr...	19.325	75	11212	0.438	ppbV		83
112)	undecane	19.575	57	52437	0.435	ppbV		94
113)	1,2,4,5-tetramethylben...	19.808	119	9141	0.452	ppbV		90
114)	dodecane	20.492	57	44745	0.404	ppbV		93
115)	1,2,4-trichlorobenzene	20.450	180	21575	0.426	ppbV	#	92
116)	naphthalene	20.567	128	62190	0.423	ppbV		98
117)	1,2,3-trichlorobenzene	20.825	180	20539	0.462	ppbV	#	94
118)	benzothiophene	20.633	134	100967	0.401	ppbV	#	98
119)	hexachlorobutadiene	20.883	225	21998	0.539	ppbV		96
120)	2-methylnaphthalene	21.717	142	9410	0.191	ppbV		95
121)	1-methylnaphthalene	21.908	142	13259M4	0.277	ppbV		

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

```
Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540783.D
Acq On    : 20 Nov 2023  10:22 PM
Operator  : AIRLAB15:RAY
Sample    : IT015-SIMSTD0.5
Misc      : WG1855304
ALS Vial  : 0    Sample Multiplier: 1
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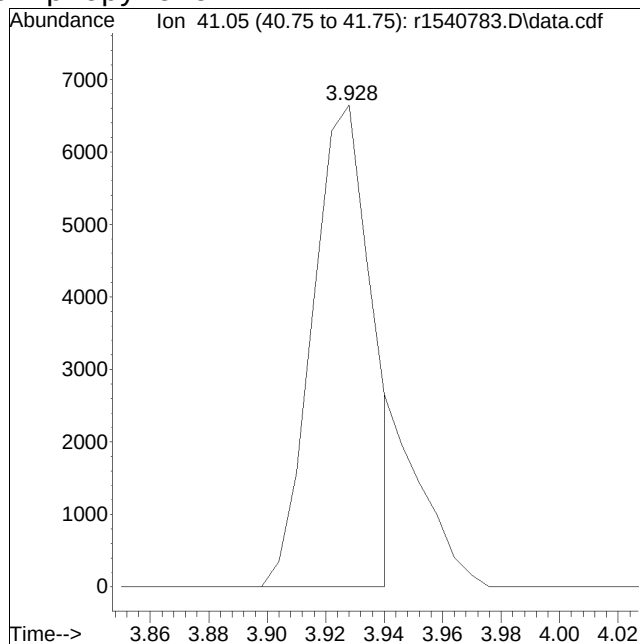
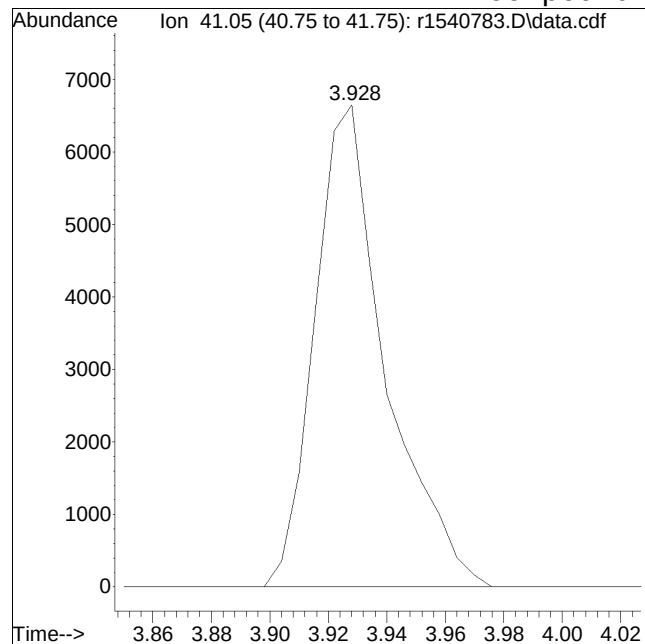
Quant Time: Nov 21 09:58:53 2023
Quant Method : 0:\Forensics\Data\AirLab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration



Manual Integration Report

Data Path : 0:\Forensics\Data\AirLab15QMethod : TFS15_231120.M
Data File : r1540783.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:0: 2 Instrument :
Sample : IT015-SIMSTD0.5 Quant Date : 11/21/2023 9:58 am

Compound #3: propylene



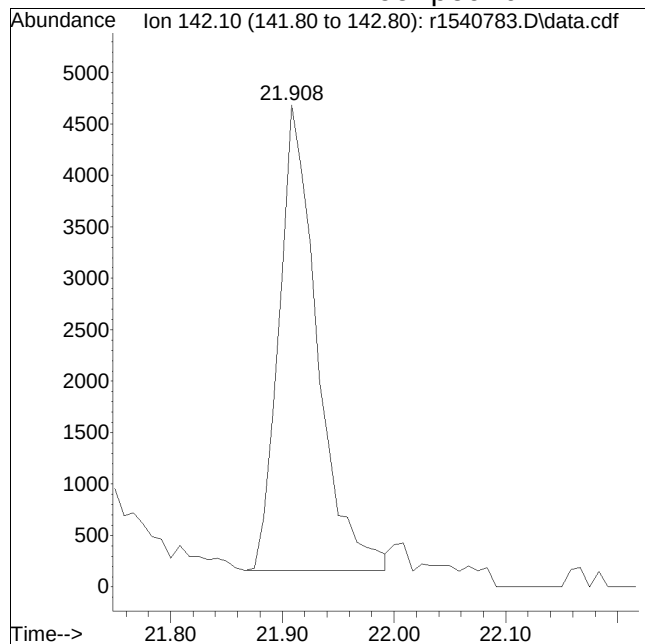
Original Peak Response = 11148

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

Manual Integration Report

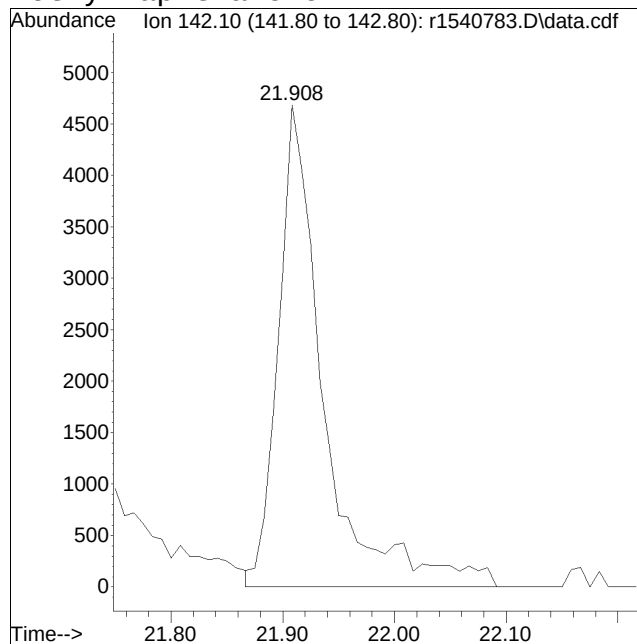
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1540783.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:0: 2 Instrument :
Sample : IT015-SIMSTD0.5 Quant Date : 11/21/2023 9:58 am

Compound #121: 1-methylnaphthalene



Original Peak Response = 10780

M4 = Poor automated baseline construction.



Manual Peak Response = 13259 M4

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540784.D
 Acq On : 20 Nov 2023 11:03 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD1.0
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:59:13 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 09:57:31 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.075	49	332978	10.000	ppbV	0.00
Standard Area = 345270			Recovery =		96.44%	
43) 1,4-difluorobenzene	11.293	114	963386	10.000	ppbV	0.00
Standard Area = 974868			Recovery =		98.82%	
67) chlorobenzene-D5	16.008	54	163146	10.000	ppbV	0.00
Standard Area = 166825			Recovery =		97.79%	
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.933	65	359446	8.845	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		88.45%	
69) toluene-D8	14.142	98	1154347	8.803	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		88.03%	
90) bromofluorobenzene	17.392	95	747587	8.748	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		87.48%	
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.892	51	35573	1.167	ppbV	99
3) propylene	3.922	41	18690M6	0.896	ppbV	
4) propane	3.946	29	27390	1.106	ppbV	98
5) dichlorodifluoromethane	3.994	85	42668	1.356	ppbV	100
6) chloromethane	4.156	50	16302	0.801	ppbV	100
7) Freon-114	4.264	85	42101	1.108	ppbV	96
8) methanol	4.330	31	53036	5.396	ppbV #	86
9) vinyl chloride	4.384	62	22148	1.112	ppbV	97
10) 1,3-butadiene	4.528	54	15756	0.974	ppbV	95
11) butane	4.588	43	26742	0.742	ppbV	99
12) acetaldehyde	4.288	29	45616	3.922	ppbV	97
13) bromomethane	4.810	94	17826	1.184	ppbV	99
14) chloroethane	4.996	64	10534	1.091	ppbV	98
15) ethanol	5.140	31	76620	4.961	ppbV	100
16) dichlorofluoromethane	5.110	67	34899	1.029	ppbV	100
17) vinyl bromide	5.380	106	15745	1.063	ppbV	98
18) acrolein	5.513	56	8745	0.967	ppbV	88
19) acetone	5.653	43	102268	3.992	ppbV	98
20) acetonitrile	5.370	41	16382	0.811	ppbV	95
21) trichlorofluoromethane	5.837	101	30786	1.308	ppbV	99
22) isopropyl alcohol	5.943	45	64162	1.760	ppbV #	96
23) acrylonitrile	6.163	53	15027M6	0.852	ppbV	
24) pentane	6.233	43	43899	0.853	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540784.D
 Acq On : 20 Nov 2023 11:03 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD1.0
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:59:13 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 09:57:31 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.263	31	42144	1.116	ppbV	97
26) 1,1-dichloroethene	6.534	61	33277	1.067	ppbV	98
27) tertiary butyl alcohol	6.612	59	39245	1.026	ppbV	98
28) methylene chloride	6.678	49	28737	1.082	ppbV	97
29) 3-chloropropene	6.804	41	29269	0.790	ppbV	96
30) carbon disulfide	6.978	76	63429	1.173	ppbV	95
31) Freon 113	6.972	101	38298	1.087	ppbV	99
32) trans-1,2-dichloroethene	7.725	61	33348	1.090	ppbV	94
33) 1,1-dichloroethane	7.942	63	41286	1.012	ppbV	98
34) MTBE	8.025	73	51527	1.012	ppbV	97
35) vinyl acetate	8.133	43	42886	0.799	ppbV	97
36) 2-butanone	8.400	43	46813	0.835	ppbV	98
37) cis-1,2-dichloroethene	8.892	61	31392	1.055	ppbV	98
38) Ethyl Acetate	9.167	61	8565	1.081	ppbV	71
39) chloroform	9.225	83	44006	1.287	ppbV	97
40) Tetrahydrofuran	9.683	42	28071M6	0.797	ppbV	
41) 2,2-dichloropropane	9.250	77	29685	1.133	ppbV	97
42) 1,2-dichloroethane	10.058	62	25531	1.113	ppbV	97
44) hexane	9.142	57	45441	0.993	ppbV	78
45) diisopropyl ether	9.142	87	22530	1.031	ppbV	93
46) tert-butyl ethyl ether	9.758	59	75165	0.916	ppbV	98
48) 1,1,1-trichloroethane	10.350	97	32558	0.992	ppbV	98
49) 1,1-dichloropropene	10.713	75	33097	0.923	ppbV	99
50) benzene	10.873	78	83058	0.994	ppbV	99
51) thiophene	0.000		0	N.D.	d	
52) carbon tetrachloride	11.040	117	29834	1.105	ppbV	99
53) cyclohexane	11.187	56	48729	1.000	ppbV	98
54) tert-amyl methyl ether	11.573	73	60374	0.844	ppbV	99
55) dibromomethane	11.780	93	23536	0.978	ppbV	98
56) 1,2-dichloropropane	11.820	63	28628	0.854	ppbV	98
57) bromodichloromethane	12.047	83	40762	1.118	ppbV	97
58) 1,4-dioxane	12.100	88	18235	0.992	ppbV	98
59) trichloroethene	12.093	130	31405	0.997	ppbV	95
60) 2,2,4-trimethylpentane	12.147	57	150848	1.007	ppbV	99
61) methyl methacrylate	12.340	41	26973	0.673	ppbV	100
62) heptane	12.460	43	49896	0.727	ppbV	96
63) cis-1,3-dichloropropene	13.108	75	35417	0.850	ppbV	98
64) 4-methyl-2-pentanone	13.158	43	54428	0.693	ppbV	97
65) trans-1,3-dichloropropene	13.733	75	28271	0.856	ppbV	96
66) 1,1,2-trichloroethane	13.933	97	28191	0.906	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540784.D
 Acq On : 20 Nov 2023 11:03 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD1.0
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:59:13 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 09:57:31 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.250	91	91900	0.946	ppbV	98
70) 2-methylthiophene	0.000		0	N.D.	d	
71) 1,3-dichloropropane	14.275	76	43116	0.952	ppbV	98
72) 2-hexanone	14.542	43	49389	0.659	ppbV	98
73) 3-methylthiophene	0.000		0	N.D.	d	
74) dibromochloromethane	14.692	129	34125	1.019	ppbV	99
75) 1,2-dibromoethane	14.942	107	42060	0.958	ppbV	99
76) butyl acetate	15.183	73	9504	0.808	ppbV	98
77) octane	15.275	85	38040	1.062	ppbV	99
78) tetrachloroethene	15.400	166	36937	1.023	ppbV	97
79) 1,1,1,2-tetrachloroethane	16.033	131	28901	0.973	ppbV	94
80) chlorobenzene	16.050	112	73902	1.009	ppbV	99
81) ethylbenzene	16.400	91	116857	0.918	ppbV	98
82) 2-ethylthiophene	0.000		0	N.D.	d	
83) m+p-xylene	16.567	91	191611	1.925	ppbV	98
84) bromoform	16.633	173	26795	0.973	ppbV	96
85) styrene	16.892	104	75011	0.953	ppbV	99
86) 1,1,2,2-tetrachloroethane	16.983	83	72923	0.978	ppbV	99
87) o-xylene	16.983	91	96523	0.966	ppbV	98
88) 1,2,3-trichloropropane	17.100	75	54239	0.954	ppbV	99
89) nonane	17.183	43	77943	0.750	ppbV	96
91) isopropylbenzene	17.500	105	121790	0.980	ppbV	100
92) bromobenzene	17.583	77	71520	0.976	ppbV	98
93) 2-chlorotoluene	17.908	126	35361	0.975	ppbV	99
94) n-propylbenzene	17.942	120	41314	0.995	ppbV	93
95) 4-chlorotoluene	17.975	126	34633	0.957	ppbV	99
96) 4-ethyl toluene	18.058	105	126170	0.960	ppbV	98
97) 1,3,5-trimethylbenzene	18.125	105	111923	0.917	ppbV	100
98) tert-butylbenzene	18.467	119	121971	1.069	ppbV	96
99) 1,2,4-trimethylbenzene	18.467	105	110035	0.988	ppbV	96
100) decane	18.550	57	101874	0.908	ppbV	92
101) Benzyl Chloride	18.592	91	49978	0.717	ppbV	99
102) 1,3-dichlorobenzene	18.600	146	73350	0.984	ppbV	98
103) 1,4-dichlorobenzene	18.658	146	70549	0.958	ppbV	97
104) sec-butylbenzene	18.692	105	155792	0.975	ppbV	99
105) 1,2,3-trimethylbenzene	18.825	105	95695	1.036	ppbV	97
106) p-isopropyltoluene	18.817	119	144643	1.171	ppbV	94
107) 1,2-dichlorobenzene	18.942	146	66266	0.920	ppbV	93
108) n-butylbenzene	19.167	91	120498	0.915	ppbV	98
109) indan	18.992	117	109869	0.992	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540784.D
 Acq On : 20 Nov 2023 11:03 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD1.0
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:59:13 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 09:57:31 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
 Sub List : Default - All compounds listed

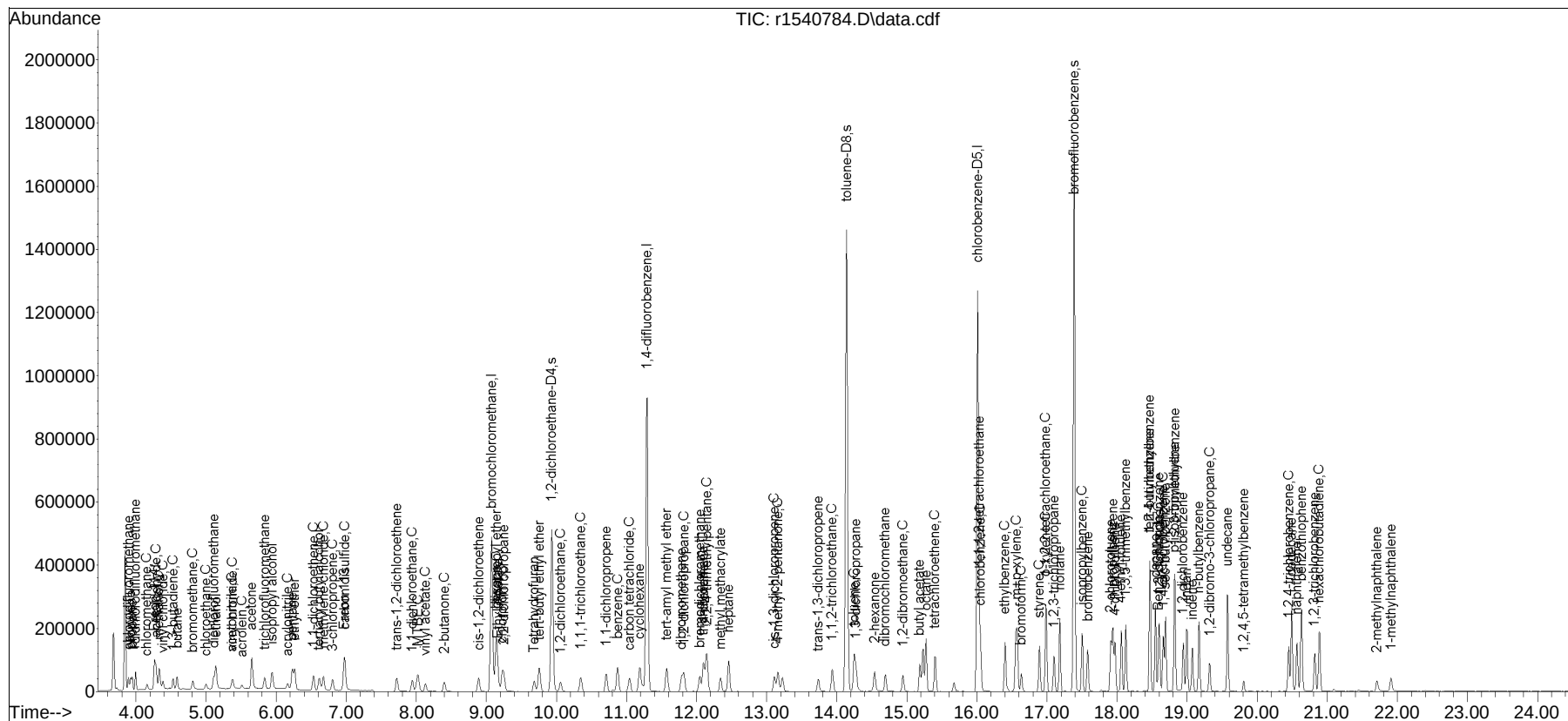
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.075	115	69601	0.933	ppbV	99
111) 1,2-dibromo-3-chloropr...	19.325	75	23565	0.914	ppbV	82
112) undecane	19.575	57	108955	0.899	ppbV	93
113) 1,2,4,5-tetramethylben...	19.808	119	19222	0.943	ppbV	96
114) dodecane	20.492	57	104700	0.939	ppbV	94
115) 1,2,4-trichlorobenzene	20.450	180	47235	0.926	ppbV #	91
116) naphthalene	20.567	128	133929	0.905	ppbV	97
117) 1,2,3-trichlorobenzene	20.817	180	44945	1.005	ppbV	97
118) benzothiophene	20.633	134	228250	0.901	ppbV	98
119) hexachlorobutadiene	20.883	225	45615	1.111	ppbV	95
120) 2-methylnaphthalene	21.708	142	29383	0.593	ppbV	96
121) 1-methylnaphthalene	21.908	142	32707	0.679	ppbV	97

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

Sub List : Default - All compounds listed3\11\1120T_I\r1540786.D

Data Path : 0:\Forensics\Data\AirLab15\2023\11\1120T_I\
Data File : r1540784.D
Acq On : 20 Nov 2023 11:03 PM
Operator : AIRLAB15:RAY
Sample : IT015-SIMSTD1.0
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

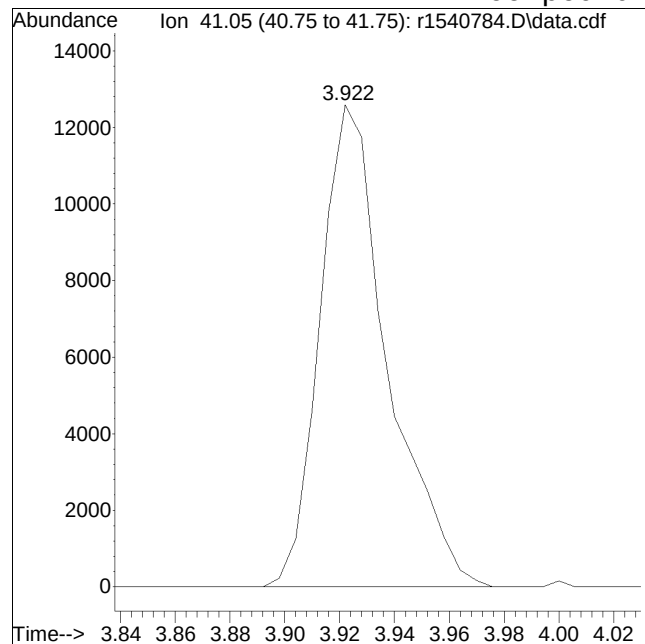
Quant Time: Nov 21 09:59:13 2023
Quant Method : 0:\Forensics\Data\AirLab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration



Manual Integration Report

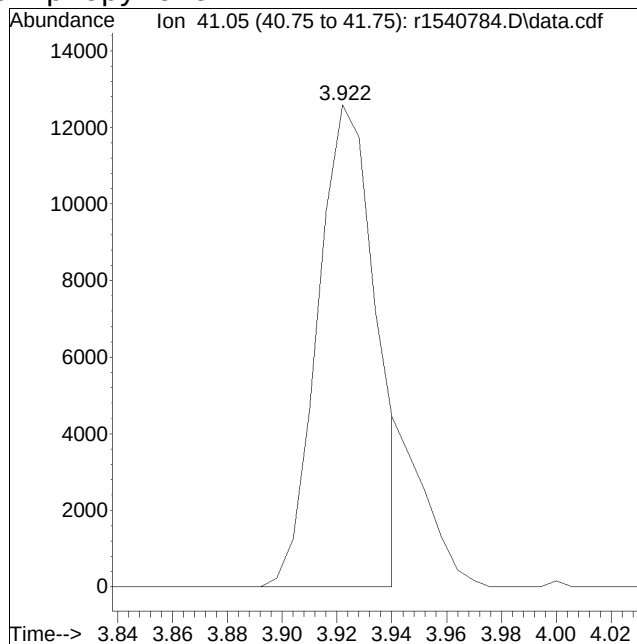
Data Path : 0:\Forensics\Data\AirLab15QMethod : TFS15_231120.M
Data File : r1540784.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:1: 3 Instrument :
Sample : IT015-SIMSTD1.0 Quant Date : 11/21/2023 9:59 am

Compound #3: propylene



Original Peak Response = 21546

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

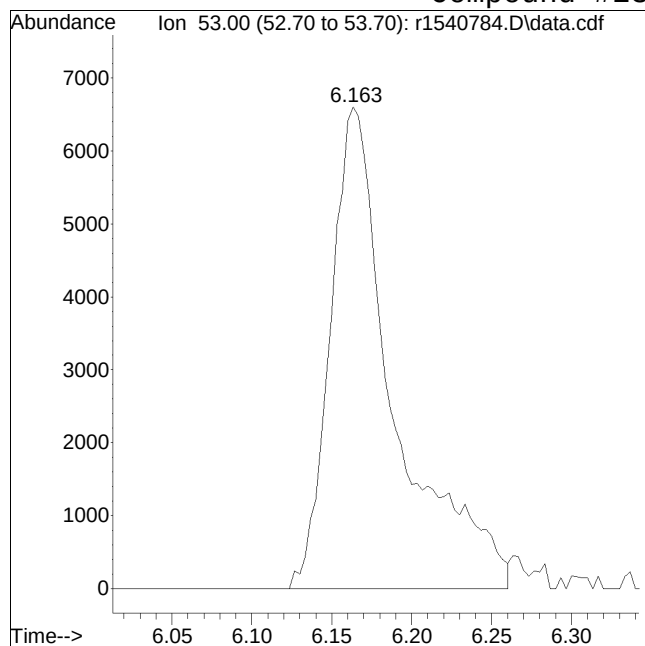


Manual Peak Response = 18690 M6

Manual Integration Report

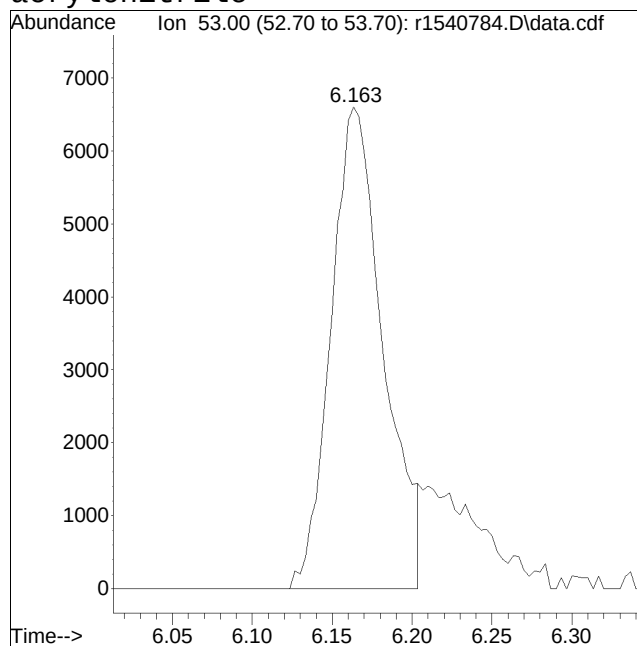
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1540784.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:1: 3 Instrument :
Sample : IT015-SIMSTD1.0 Quant Date : 11/21/2023 9:59 am

Compound #23: acrylonitrile



Original Peak Response = 18363

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

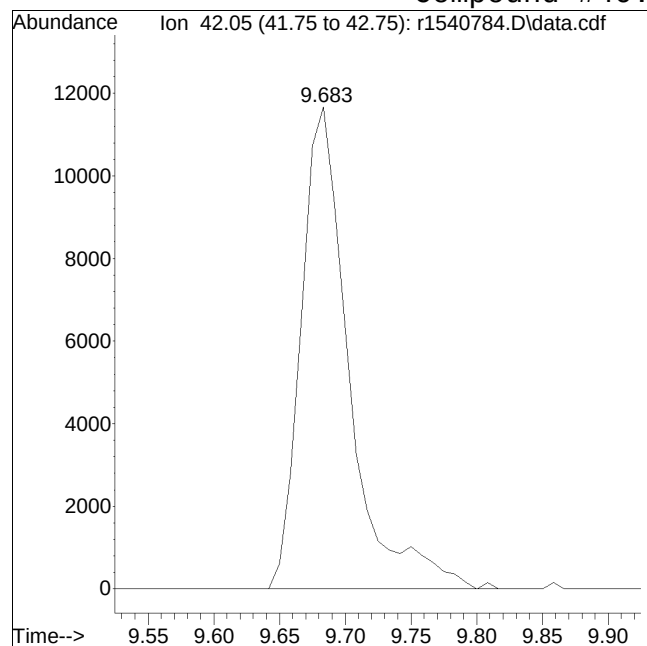


Manual Peak Response = 15027 M6

Manual Integration Report

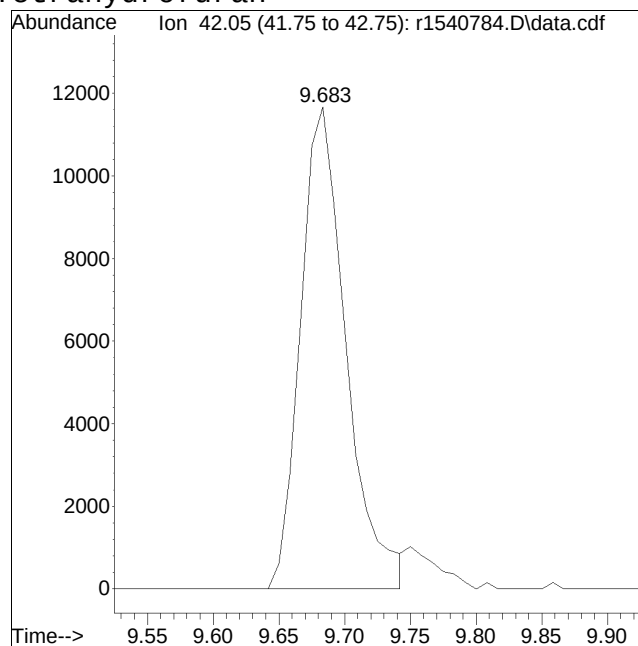
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1540784.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:1: 3 Instrument :
Sample : IT015-SIMSTD1.0 Quant Date : 11/21/2023 9:59 am

Compound #40: Tetrahydrofuran



Original Peak Response = 29868

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



Manual Peak Response = 28071 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540785.D
 Acq On : 20 Nov 2023 11:42 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD5.0
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:59:32 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 09:57:31 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.075	49	338160	10.000	ppbV	0.00
Standard Area = 345270			Recovery =		97.94%	
43) 1,4-difluorobenzene	11.293	114	961598	10.000	ppbV	0.00
Standard Area = 974868			Recovery =		98.64%	
67) chlorobenzene-D5	16.008	54	164993	10.000	ppbV	0.00
Standard Area = 166825			Recovery =		98.90%	
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.933	65	367099	9.050	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		90.50%	
69) toluene-D8	14.142	98	1153963	8.702	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		87.02%	
90) bromofluorobenzene	17.383	95	733414	8.486	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		84.86%	
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.892	51	166938	5.391	ppbV	99
3) propylene	3.922	41	85501M6	4.035	ppbV	
4) propane	3.946	29	125900	5.005	ppbV	98
5) dichlorodifluoromethane	3.994	85	207574	6.497	ppbV	98
6) chloromethane	4.156	50	76286	3.691	ppbV	100
7) Freon-114	4.264	85	204413	5.299	ppbV	96
8) methanol	4.330	31	210604	21.100	ppbV	97
9) vinyl chloride	4.390	62	109863	5.433	ppbV	99
10) 1,3-butadiene	4.528	54	73818	4.495	ppbV	97
11) butane	4.588	43	122405	3.345	ppbV	100
12) acetaldehyde	4.282	29	206111	17.449	ppbV	95
13) bromomethane	4.810	94	87987	5.757	ppbV	96
14) chloroethane	5.002	64	50476	5.147	ppbV	98
15) ethanol	5.134	31	364612	23.245	ppbV	98
16) dichlorofluoromethane	5.110	67	164048	4.764	ppbV	98
17) vinyl bromide	5.383	106	75601	5.028	ppbV	98
18) acrolein	5.510	56	40014	4.357	ppbV	99
19) acetone	5.647	43	468191	17.994	ppbV	99
20) acetonitrile	5.363	41	76150	3.714	ppbV	97
21) trichlorofluoromethane	5.837	101	149390	6.252	ppbV	99
22) isopropyl alcohol	5.930	45	284516	7.683	ppbV	100
23) acrylonitrile	6.160	53	92142	5.145	ppbV	97
24) pentane	6.233	43	204604	3.917	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540785.D
 Acq On : 20 Nov 2023 11:42 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD5.0
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:59:32 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 09:57:31 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.260	31	202588	5.281	ppbV	99
26) 1,1-dichloroethene	6.534	61	164257	5.186	ppbV	99
27) tertiary butyl alcohol	6.600	59	186946	4.811	ppbV	98
28) methylene chloride	6.678	49	134983	5.002	ppbV	99
29) 3-chloropropene	6.804	41	140040	3.722	ppbV	99
30) carbon disulfide	6.978	76	306606	5.584	ppbV	99
31) Freon 113	6.972	101	186295	5.205	ppbV	100
32) trans-1,2-dichloroethene	7.725	61	157671	5.072	ppbV	100
33) 1,1-dichloroethane	7.942	63	205335	4.957	ppbV	100
34) MTBE	8.017	73	248574	4.806	ppbV	99
35) vinyl acetate	8.125	43	190427	3.494	ppbV	99
36) 2-butanone	8.392	43	217898	3.827	ppbV	99
37) cis-1,2-dichloroethene	8.892	61	156978	5.197	ppbV	99
38) Ethyl Acetate	9.158	61	40786	5.070	ppbV	88
39) chloroform	9.225	83	214516	6.175	ppbV	97
40) Tetrahydrofuran	9.667	42	135504	3.790	ppbV	96
41) 2,2-dichloropropane	9.250	77	141860	5.332	ppbV	98
42) 1,2-dichloroethane	10.058	62	124964	5.362	ppbV	99
44) hexane	9.142	57	214929	4.706	ppbV	96
45) diisopropyl ether	9.133	87	109648	5.026	ppbV	98
46) tert-butyl ethyl ether	9.750	59	359617	4.392	ppbV	99
48) 1,1,1-trichloroethane	10.350	97	159409	4.866	ppbV	99
49) 1,1-dichloropropene	10.713	75	160013	4.469	ppbV	98
50) benzene	10.873	78	407060	4.881	ppbV	99
51) thiophene	0.000		0	N.D.	d	
52) carbon tetrachloride	11.047	117	154484	5.734	ppbV	99
53) cyclohexane	11.187	56	229875	4.727	ppbV	100
54) tert-amyl methyl ether	11.567	73	291912	4.088	ppbV	99
55) dibromomethane	11.787	93	112108	4.668	ppbV	98
56) 1,2-dichloropropane	11.820	63	141246	4.221	ppbV	99
57) bromodichloromethane	12.047	83	202202	5.554	ppbV	98
58) 1,4-dioxane	12.087	88	88842	4.841	ppbV	99
59) trichloroethene	12.100	130	155016	4.929	ppbV	99
60) 2,2,4-trimethylpentane	12.147	57	715188	4.781	ppbV	100
61) methyl methacrylate	12.333	41	132168	3.304	ppbV	100
62) heptane	12.460	43	236145	3.449	ppbV	98
63) cis-1,3-dichloropropene	13.108	75	193000	4.638	ppbV	100
64) 4-methyl-2-pentanone	13.150	43	267578	3.411	ppbV	99
65) trans-1,3-dichloropropene	13.733	75	154896	4.700	ppbV	98
66) 1,1,2-trichloroethane	13.933	97	140585	4.528	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540785.D
 Acq On : 20 Nov 2023 11:42 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD5.0
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:59:32 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 09:57:31 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.250	91	465089	4.735	ppbV	100
70) 2-methylthiophene	0.000		0	N.D.	d	
71) 1,3-dichloropropane	14.275	76	207929	4.540	ppbV	99
72) 2-hexanone	14.533	43	242822	3.203	ppbV	98
73) 3-methylthiophene	0.000		0	N.D.	d	
74) dibromochloromethane	14.692	129	177220	5.232	ppbV	100
75) 1,2-dibromoethane	14.942	107	213779	4.816	ppbV	97
76) butyl acetate	15.183	73	50000	4.206	ppbV	94
77) octane	15.275	85	181792	5.020	ppbV	98
78) tetrachloroethene	15.400	166	187172	5.127	ppbV	98
79) 1,1,1,2-tetrachloroethane	16.033	131	146983	4.892	ppbV	96
80) chlorobenzene	16.050	112	373103	5.038	ppbV	99
81) ethylbenzene	16.400	91	602369	4.677	ppbV	98
82) 2-ethylthiophene	0.000		0	N.D.	d	
83) m+p-xylene	16.567	91	972347	9.658	ppbV	99
84) bromoform	16.633	173	154512	5.549	ppbV	98
85) styrene	16.892	104	382021	4.799	ppbV	98
86) 1,1,2,2-tetrachloroethane	16.983	83	384073	5.093	ppbV	100
87) o-xylene	16.983	91	493789	4.887	ppbV	98
88) 1,2,3-trichloropropane	17.100	75	264099	4.592	ppbV	99
89) nonane	17.183	43	381158	3.627	ppbV	95
91) isopropylbenzene	17.500	105	600787	4.781	ppbV	98
92) bromobenzene	17.583	77	350714	4.733	ppbV	99
93) 2-chlorotoluene	17.908	126	176727	4.820	ppbV	97
94) n-propylbenzene	17.942	120	214896	5.116	ppbV	96
95) 4-chlorotoluene	17.967	126	177510	4.849	ppbV	100
96) 4-ethyl toluene	18.058	105	636268	4.788	ppbV	98
97) 1,3,5-trimethylbenzene	18.125	105	648814	5.258	ppbV	99
98) tert-butylbenzene	18.467	119	622016	5.393	ppbV	97
99) 1,2,4-trimethylbenzene	18.467	105	582781	5.172	ppbV	97
100) decane	18.550	57	522583	4.605	ppbV	96
101) Benzyl Chloride	18.592	91	314065	4.458	ppbV	99
102) 1,3-dichlorobenzene	18.600	146	398712	5.291	ppbV	99
103) 1,4-dichlorobenzene	18.658	146	389482	5.230	ppbV	99
104) sec-butylbenzene	18.692	105	796394	4.926	ppbV	98
105) 1,2,3-trimethylbenzene	18.825	105	460126	4.928	ppbV	99
106) p-isopropyltoluene	18.817	119	699492	5.600	ppbV	96
107) 1,2-dichlorobenzene	18.942	146	376697	5.169	ppbV	98
108) n-butylbenzene	19.167	91	643535	4.833	ppbV	99
109) indan	18.992	117	573587	5.120	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540785.D
 Acq On : 20 Nov 2023 11:42 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD5.0
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:59:32 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 09:57:31 2023
 Response via : Initial Calibration

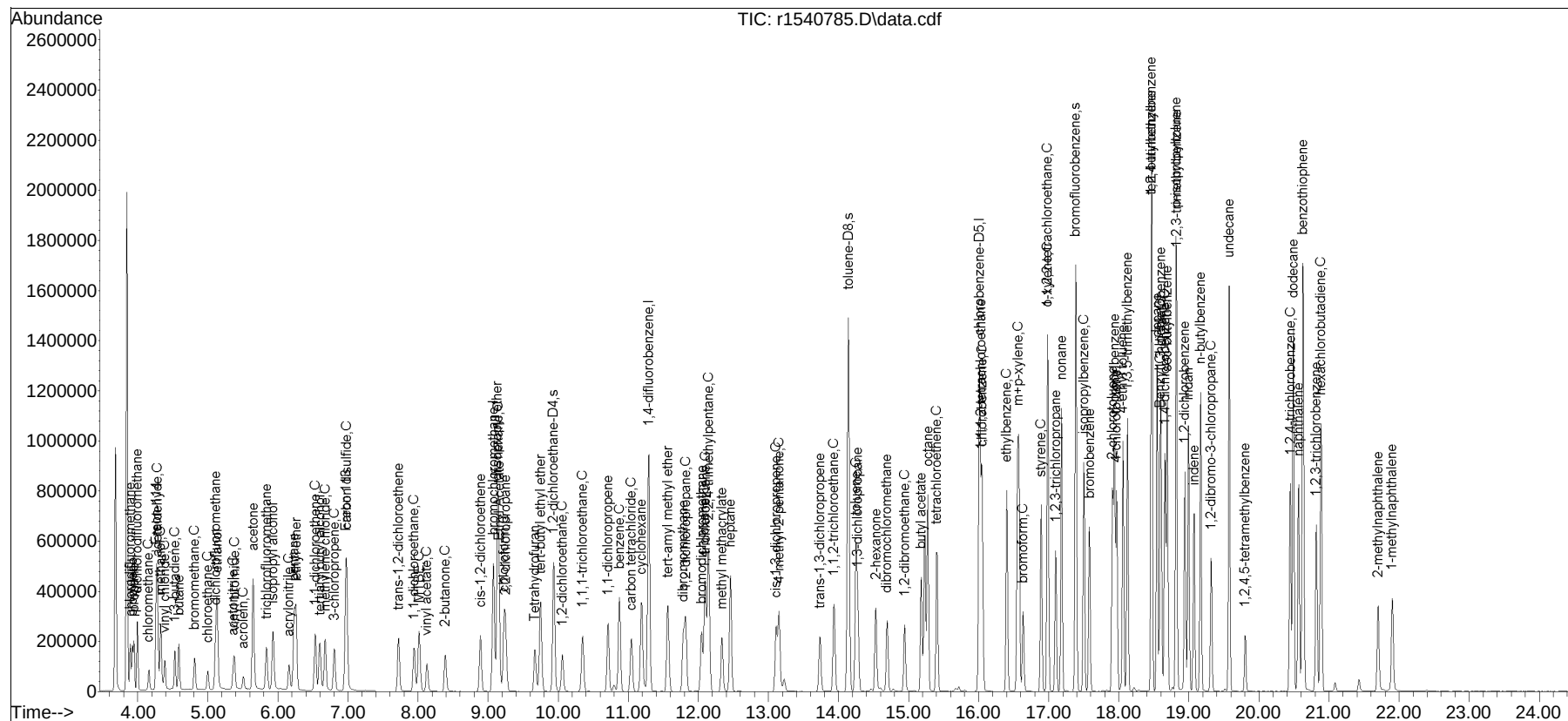
CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110)	indene	19.075	115	370169	4.904	ppbV	99
111)	1,2-dibromo-3-chloropr...	19.317	75	132534	5.084	ppbV	93
112)	undecane	19.575	57	590336	4.816	ppbV	98
113)	1,2,4,5-tetramethylben...	19.800	119	132373	6.424	ppbV	100
114)	dodecane	20.492	57	564396	5.003	ppbV	98
115)	1,2,4-trichlorobenzene	20.450	180	290276	5.630	ppbV	95
116)	naphthalene	20.567	128	737270	4.927	ppbV	99
117)	1,2,3-trichlorobenzene	20.817	180	241570	5.339	ppbV	99
118)	benzothiophene	20.625	134	1505074	5.877	ppbV	99
119)	hexachlorobutadiene	20.883	225	252119	6.069	ppbV	95
120)	2-methylnaphthalene	21.700	142	235100	4.691	ppbV	100
121)	1-methylnaphthalene	21.900	142	255522	5.242	ppbV	98

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

```
Data Path : 0:\Forensics\Data\AirLab15\2023\11\1120T_I\
Data File : r1540785.D
Acq On    : 20 Nov 2023  11:42 PM
Operator  : AIRLAB15:RAY
Sample    : IT015-SIMSTD5.0
Misc      : WG1855304
ALS Vial  : 0      Sample Multiplier: 1
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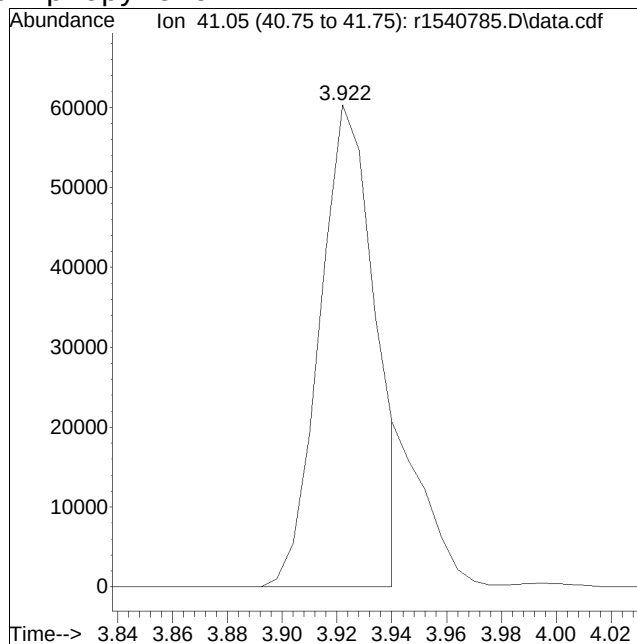
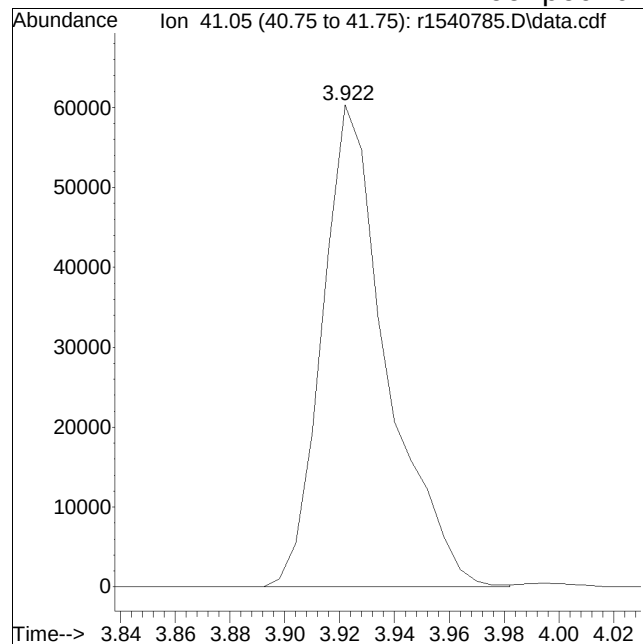
Quant Time: Nov 21 09:59:32 2023
Quant Method : 0:\Forensics\Data\AirLab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration



Manual Integration Report

Data Path : 0:\Forensics\Data\AirLab15QMethod : TFS15_231120.M
Data File : r1540785.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:1: 2 Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 11/21/2023 9:59 am

Compound #3: propylene



Original Peak Response = 99112

Manual Peak Response = 85501 M6

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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540786.D
 Acq On : 21 Nov 2023 12:23 AM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD010
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:51:05 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 14 15:20:09 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.075	49	345270	10.000	ppbV	-0.05
Standard Area = 345270			Recovery =	100.00%		
43) 1,4-difluorobenzene	11.293	114	974868	10.000	ppbV	-0.05
Standard Area = 974868			Recovery =	100.00%		
67) chlorobenzene-D5	16.008	54	166825	10.000	ppbV	-0.04
Standard Area = 166825			Recovery =	100.00%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.933	65	369875	8.833	ppbV	-0.05
Spiked Amount 10.000	Range 70 - 130		Recovery =	88.33%		
69) toluene-D8	14.142	98	1186746	8.726	ppbV	-0.04
Spiked Amount 10.000	Range 70 - 130		Recovery =	87.26%		
90) bromofluorobenzene	17.392	95	778748	8.804	ppbV	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery =	88.04%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.892	51	318645	10.159	ppbV	100
3) propylene	3.922	41	177148M6	7.884	ppbV	
4) propane	3.946	29	243068	9.435	ppbV #	88
5) dichlorodifluoromethane	3.994	85	391937	12.414	ppbV	98
6) chloromethane	4.156	50	145177	6.601	ppbV	93
7) Freon-114	4.264	85	385332	9.770	ppbV #	80
8) methanol	4.324	31	404271	38.189	ppbV	92
9) vinyl chloride	4.384	62	218231	10.668	ppbV	97
10) 1,3-butadiene	4.528	54	143279	8.409	ppbV	92
11) butane	4.588	43	242205	6.171	ppbV #	88
12) acetaldehyde	4.282	29	385387	30.262	ppbV	98
13) bromomethane	4.810	94	174996	11.423	ppbV	100
14) chloroethane	5.002	64	103439	10.396	ppbV	97
15) ethanol	5.128	31	724196	44.186	ppbV #	79
16) dichlorofluoromethane	5.110	67	327034	9.231	ppbV #	96
17) vinyl bromide	5.380	106	152672	9.943	ppbV	100
18) acrolein	5.503	56	81039	8.493	ppbV #	88
19) acetone	5.643	43	935810	33.920	ppbV #	79
20) acetonitrile	5.363	41	151876	6.964	ppbV	95
21) trichlorofluoromethane	5.837	101	297580	12.609	ppbV	94
22) isopropyl alcohol	5.923	45	573951	14.440	ppbV #	93
23) acrylonitrile	6.157	53	167008	9.088	ppbV	95
24) pentane	6.230	43	406837	7.374	ppbV #	87

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540786.D
 Acq On : 21 Nov 2023 12:23 AM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD010
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:51:05 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 14 15:20:09 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) ethyl ether	6.257	31	405421	10.370	ppbV	#	89
26) 1,1-dichloroethene	6.534	61	332751	10.324	ppbV		99
27) tertiary butyl alcohol	6.588	59	396644	9.918	ppbV	#	89
28) methylene chloride	6.678	49	268472	9.714	ppbV		84
29) 3-chloropropene	6.804	41	288919	7.266	ppbV	#	89
30) carbon disulfide	6.978	76	619960	11.147	ppbV	#	92
31) Freon 113	6.972	101	373974	10.259	ppbV		86
32) trans-1,2-dichloroethene	7.725	61	323524	10.172	ppbV		98
33) 1,1-dichloroethane	7.942	63	415693	9.777	ppbV		99
34) MTBE	8.008	73	499251	9.419	ppbV		94
35) vinyl acetate	8.125	43	411235	7.163	ppbV	#	88
36) 2-butanone	8.383	43	440796	7.298	ppbV	#	87
37) cis-1,2-dichloroethene	8.892	61	319602	10.384	ppbV		98
38) Ethyl Acetate	9.158	61	82398	9.993	ppbV	#	10
39) chloroform	9.225	83	430887	12.516	ppbV	#	95
40) Tetrahydrofuran	9.667	42	274884	7.230	ppbV	#	83
41) 2,2-dichloropropane	9.250	77	288022	10.668	ppbV	#	84
42) 1,2-dichloroethane	10.058	62	251839	10.688	ppbV		95
44) hexane	9.142	57	436059	9.360	ppbV	#	50
45) diisopropyl ether	9.133	87	220713M3	9.987	ppbV		
46) tert-butyl ethyl ether	9.750	59	740178	8.776	ppbV		94
48) 1,1,1-trichloroethane	10.350	97	321967	9.630	ppbV		100
49) 1,1-dichloropropene	10.713	75	320139	8.695	ppbV	#	86
50) benzene	10.873	78	813136	9.602	ppbV		99
51) thiophene	0.000		0	N.D.	d		
52) carbon tetrachloride	11.047	117	316417	11.779	ppbV		98
53) cyclohexane	11.187	56	464886	9.394	ppbV	#	83
54) tert-amyl methyl ether	11.560	73	595140	8.042	ppbV	#	88
55) dibromomethane	11.787	93	228423	9.260	ppbV		96
56) 1,2-dichloropropane	11.820	63	288795	8.327	ppbV		96
57) bromodichloromethane	12.047	83	414640	11.356	ppbV		98
58) 1,4-dioxane	12.087	88	184170	9.899	ppbV		95
59) trichloroethene	12.100	130	317381	9.934	ppbV		98
60) 2,2,4-trimethylpentane	12.147	57	1449696	9.544	ppbV	#	86
61) methyl methacrylate	12.333	41	273498	6.386	ppbV	#	81
62) heptane	12.460	43	471924	6.533	ppbV	#	76
63) cis-1,3-dichloropropene	13.108	75	398176	9.339	ppbV	#	88
64) 4-methyl-2-pentanone	13.150	43	546137	6.537	ppbV	#	77
65) trans-1,3-dichloropropene	13.733	75	321792	9.544	ppbV	#	89
66) 1,1,2-trichloroethane	13.933	97	288216	9.051	ppbV		89

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540786.D
 Acq On : 21 Nov 2023 12:23 AM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD010
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:51:05 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 14 15:20:09 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.250	91	952601	9.543	ppbV	100
70) 2-methylthiophene	0.000		0	N.D.	d	
71) 1,3-dichloropropane	14.275	76	414800	8.857	ppbV #	76
72) 2-hexanone	14.525	43	502685	6.268	ppbV #	73
73) 3-methylthiophene	0.000		0	N.D.	d	
74) dibromochloromethane	14.692	129	378832	11.116	ppbV	100
75) 1,2-dibromoethane	14.942	107	428458	9.475	ppbV	99
76) butyl acetate	15.175	73	103596	8.409	ppbV #	53
77) octane	15.275	85	367413	10.063	ppbV #	59
78) tetrachloroethene	15.400	166	380093	10.350	ppbV	94
79) 1,1,1,2-tetrachloroethane	16.033	131	300992	9.837	ppbV	96
80) chlorobenzene	16.050	112	754276	10.086	ppbV	97
81) ethylbenzene	16.400	91	1239579	9.448	ppbV	96
82) 2-ethylthiophene	0.000		0	N.D.	d	
83) m+p-xylene	16.567	91	1982685	19.336	ppbV	94
84) bromoform	16.633	173	335969	12.080	ppbV	97
85) styrene	16.892	104	787823	9.753	ppbV	99
86) 1,1,2,2-tetrachloroethane	16.983	83	780810	10.253	ppbV	99
87) o-xylene	16.992	91	1014172	9.882	ppbV	98
88) 1,2,3-trichloropropane	17.100	75	531682	9.039	ppbV #	91
89) nonane	17.183	43	760502	6.869	ppbV #	69
91) isopropylbenzene	17.500	105	1203225	9.387	ppbV	96
92) bromobenzene	17.583	77	708238	9.383	ppbV	98
93) 2-chlorotoluene	17.908	126	369412M3	9.908	ppbV	
94) n-propylbenzene	17.942	120	441187	10.433	ppbV	78
95) 4-chlorotoluene	17.967	126	370570	10.007	ppbV	93
96) 4-ethyl toluene	18.058	105	1291502	9.580	ppbV	97
97) 1,3,5-trimethylbenzene	18.125	105	1312132	10.483	ppbV	95
98) tert-butylbenzene	18.467	119	1231406	10.607	ppbV	99
99) 1,2,4-trimethylbenzene	18.467	105	1184785	10.399	ppbV	96
100) decane	18.550	57	1080886	9.328	ppbV #	75
101) Benzyl Chloride	18.592	91	718525	9.983	ppbV	98
102) 1,3-dichlorobenzene	18.600	146	803033M3	10.586	ppbV	
103) 1,4-dichlorobenzene	18.658	146	791353	10.549	ppbV	97
104) sec-butylbenzene	18.692	105	1604071	9.768	ppbV	97
105) 1,2,3-trimethylbenzene	18.825	105	858761	8.915	ppbV	89
106) p-isopropyltoluene	18.817	119	1260530	9.891	ppbV	99
107) 1,2-dichlorobenzene	18.942	146	774513	10.551	ppbV	97
108) n-butylbenzene	19.167	91	1353780	9.996	ppbV	98
109) indan	18.992	117	1166923	10.340	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540786.D
 Acq On : 21 Nov 2023 12:23 AM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD010
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:51:05 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 14 15:20:09 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
 Sub List : Default - All compounds listed

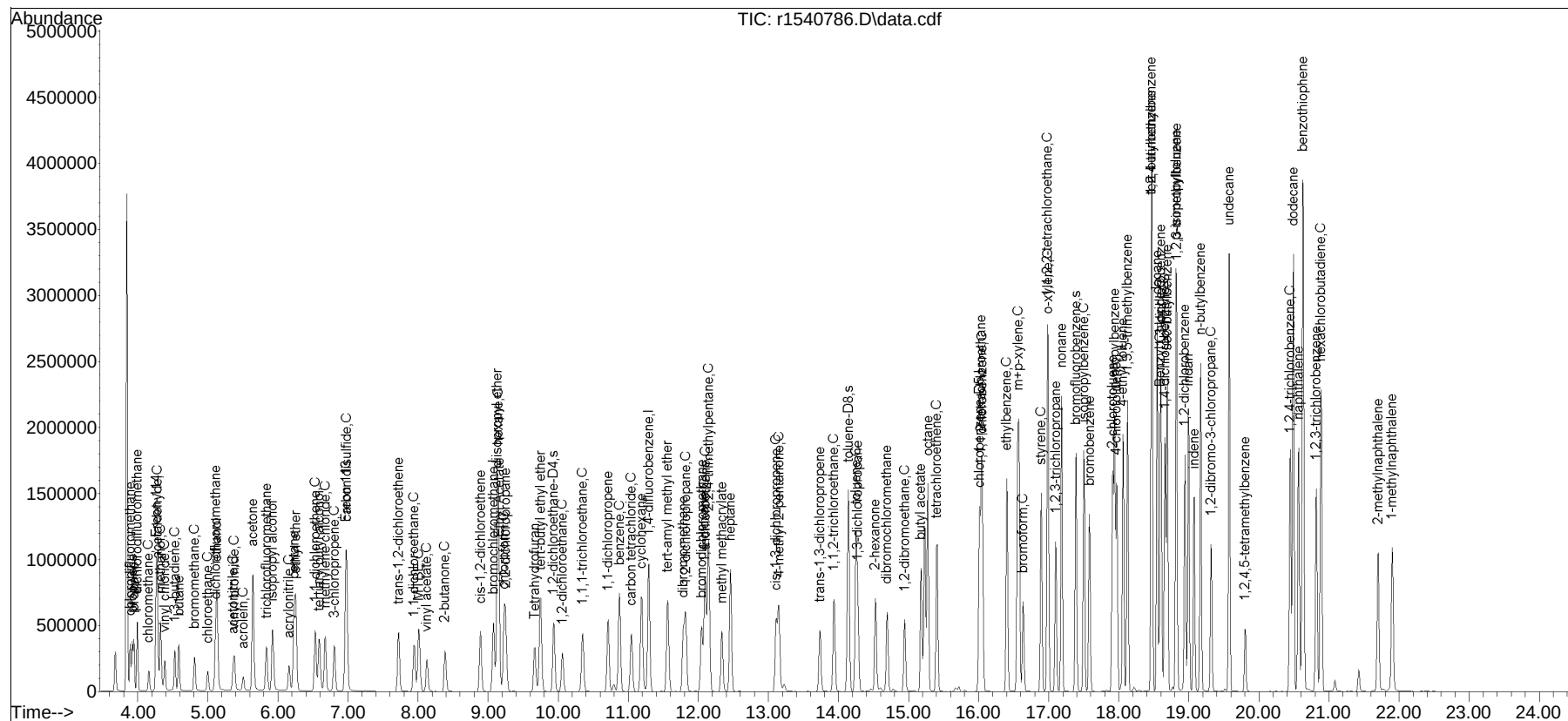
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

110)	indene	19.075	115	754519	9.891	ppbV		98
111)	1,2-dibromo-3-chloropr...	19.317	75	275022	10.352	ppbV	#	80
112)	undecane	19.575	57	1241883	9.957	ppbV	#	79
113)	1,2,4,5-tetramethylben...	19.800	119	279280	14.053	ppbV		99
114)	dodecane	20.492	57	1302367	11.329	ppbV	#	72
115)	1,2,4-trichlorobenzene	20.442	180	677661	13.282	ppbV		95
116)	naphthalene	20.567	128	1682437	11.177	ppbV		98
117)	1,2,3-trichlorobenzene	20.817	180	569774	12.662	ppbV		95
118)	benzothiophene	20.625	134	3492369	13.840	ppbV	#	97
119)	hexachlorobutadiene	20.883	225	559414	13.777	ppbV		96
120)	2-methylnaphthalene	21.700	142	681123	13.790	ppbV		92
121)	1-methylnaphthalene	21.900	142	733280	15.720	ppbV		98

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

```
Data Path : 0:\Forensics\Data\AirLab15\2023\11\1120T_I\
Data File : r1540786.D
Acq On    : 21 Nov 2023  12:23 AM
Operator  : AIRLAB15:RAY
Sample    : IT015-SIMSTD010
Misc      : WG1855304
ALS Vial  : 0    Sample Multiplier: 1
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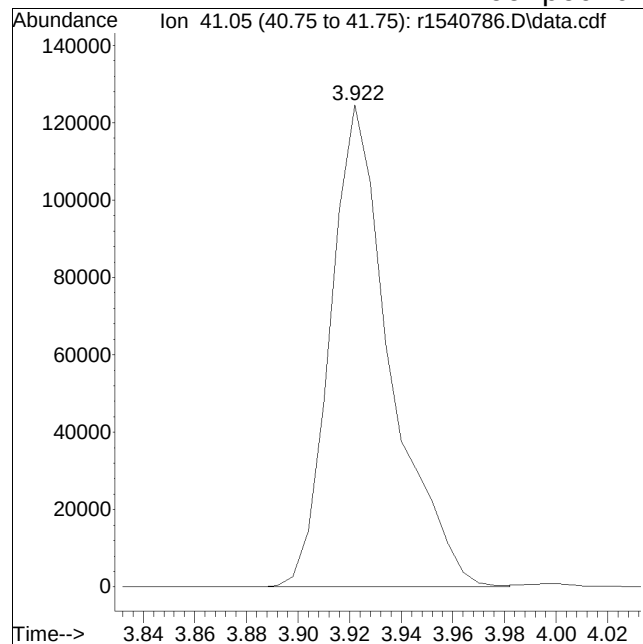
Quant Time: Nov 21 09:51:05 2023
Quant Method : 0:\Forensics\Data\AirLab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 14 15:20:09 2023
Response via : Initial Calibration



Manual Integration Report

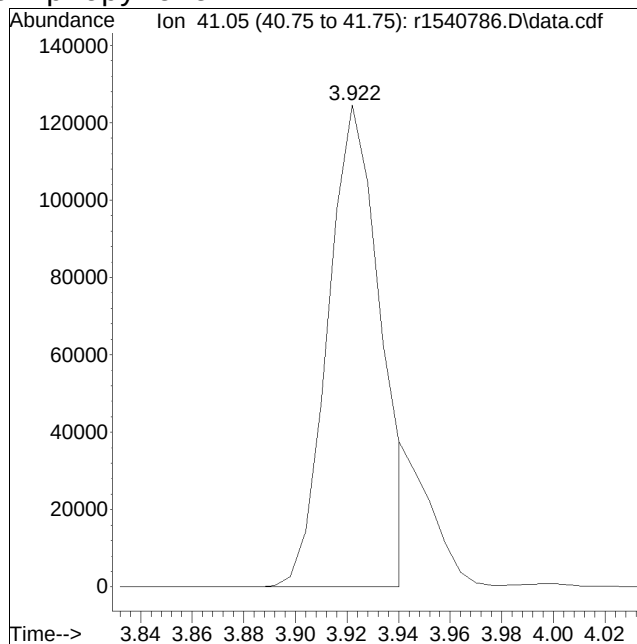
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1540786.D Operator : AIRLAB15:RAY
Date Inj'd : 11/21/2020 0:2: 3 Instrument :
Sample : IT015-SIMSTD010 Quant Date : 11/21/2023 9:51 am

Compound #3: propylene



Original Peak Response = 202139

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

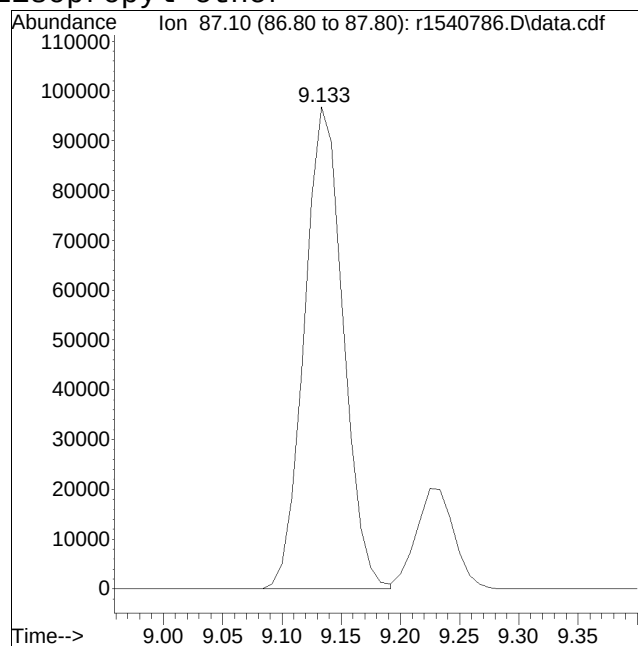
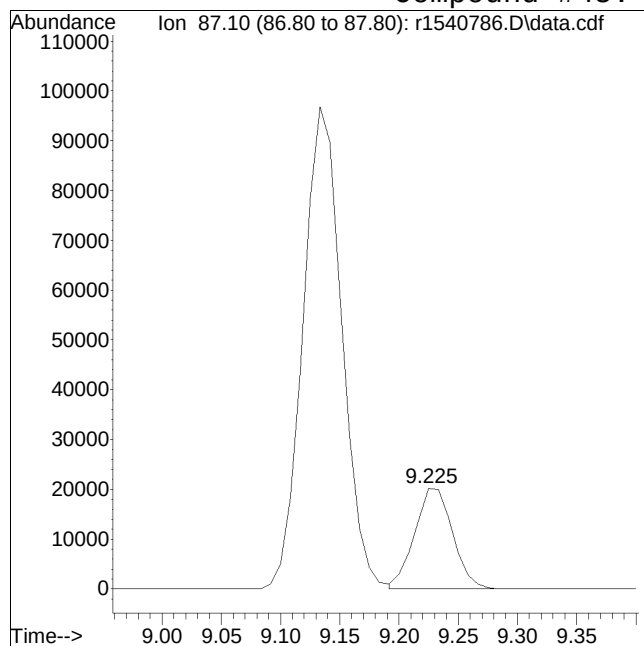


Manual Peak Response = 177148 M6

Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1540786.D Operator : AIRLAB15:RAY
Date Inj'd : 11/21/2020 0:2: 3 Instrument :
Sample : IT015-SIMSTD010 Quant Date : 11/21/2023 9:51 am

Compound #45: diisopropyl ether



Original Peak Response = 45063

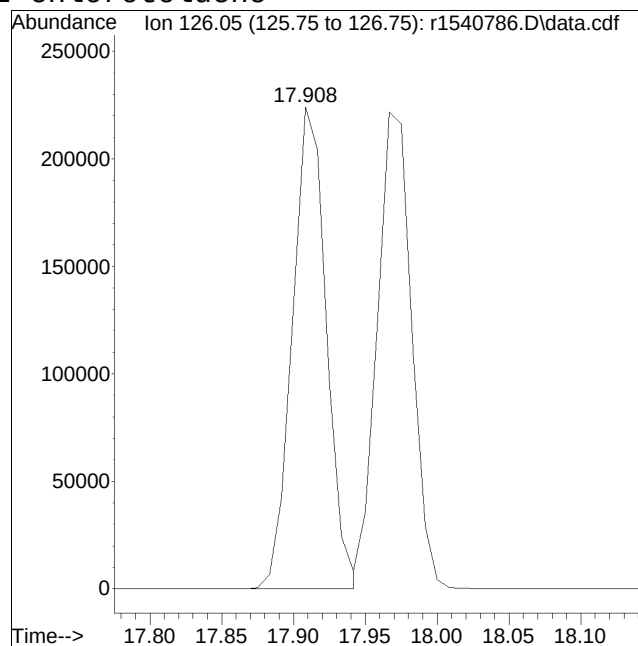
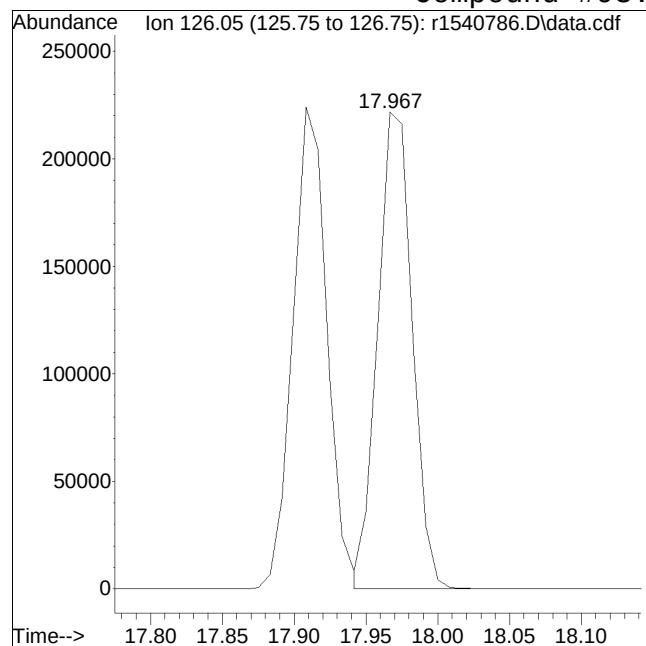
Manual Peak Response = 220713 M3

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

Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1540786.D Operator : AIRLAB15:RAY
Date Inj'd : 11/21/2020 0:2: 3 Instrument :
Sample : IT015-SIMSTD010 Quant Date : 11/21/2023 9:51 am

Compound #93: 2-chlorotoluene



Original Peak Response = 370570

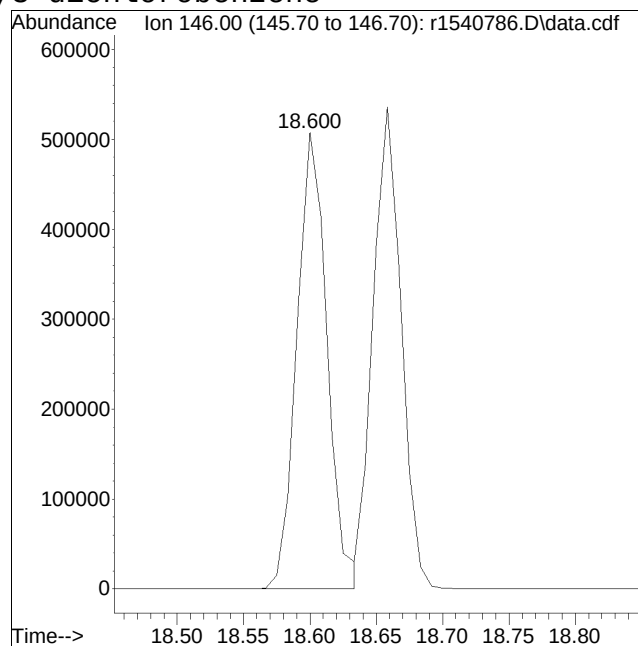
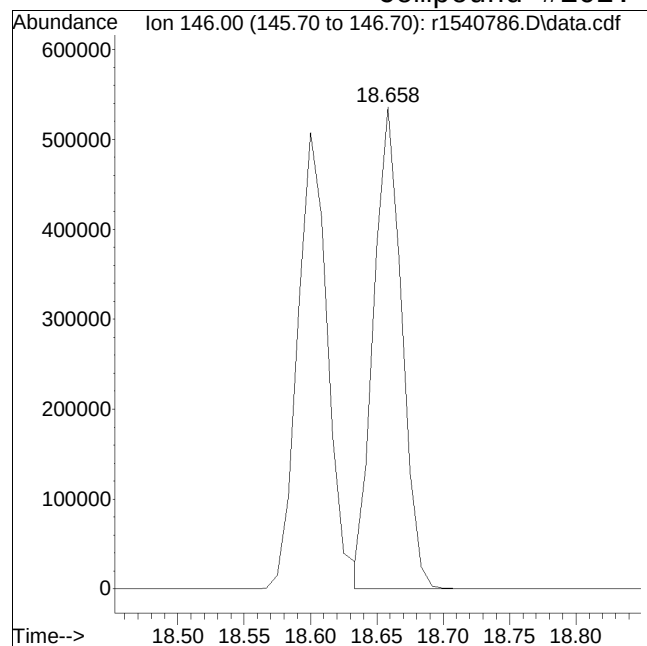
Manual Peak Response = 369412 M3

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

Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1540786.D Operator : AIRLAB15:RAY
Date Inj'd : 11/21/2020 0:2: 3 Instrument :
Sample : IT015-SIMSTD010 Quant Date : 11/21/2023 9:51 am

Compound #102: 1,3-dichlorobenzene



Original Peak Response = 791353

Manual Peak Response = 803033 M3

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540787.D
 Acq On : 21 Nov 2023 1:00 AM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD020
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:59:52 2023
 Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 09:57:31 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.075	49	344030	10.000	ppbV	0.00
Standard Area = 345270			Recovery =	99.64%		
43) 1,4-difluorobenzene	11.293	114	985899	10.000	ppbV	0.00
Standard Area = 974868			Recovery =	101.13%		
67) chlorobenzene-D5	16.008	54	165928	10.000	ppbV	0.00
Standard Area = 166825			Recovery =	99.46%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.942	65	366803	8.820	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	88.20%		
69) toluene-D8	14.142	98	1225720	9.191	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	91.91%		
90) bromofluorobenzene	17.383	95	824945	9.492	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	94.92%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.892	51	615789	19.546	ppbV	99
3) propylene	3.922	41	365899M6	16.975	ppbV	
4) propane	3.946	29	438378	17.129	ppbV	97
5) dichlorodifluoromethane	3.994	85	690627	21.246	ppbV	98
6) chloromethane	4.156	50	256119	12.180	ppbV	99
7) Freon-114	4.264	85	672446	17.135	ppbV	99
8) methanol	4.324	31	705402	69.468	ppbV	99
9) vinyl chloride	4.384	62	409637	19.911	ppbV	98
10) 1,3-butadiene	4.528	54	261689	15.662	ppbV	89
11) butane	4.582	43	473111	12.706	ppbV	98
12) acetaldehyde	4.282	29	670367	55.783	ppbV	90
13) bromomethane	4.810	94	323937	20.832	ppbV	99
14) chloroethane	4.996	64	197724	19.819	ppbV	99
15) ethanol	5.128	31	1256394	78.732	ppbV	95
16) dichlorofluoromethane	5.110	67	640521	18.282	ppbV	100
17) vinyl bromide	5.380	106	311335	20.351	ppbV	95
18) acrolein	5.503	56	154465	16.531	ppbV	97
19) acetone	5.640	43	1797659	67.912	ppbV	99
20) acetonitrile	5.360	41	333033	15.966	ppbV	96
21) trichlorofluoromethane	5.837	101	551238	22.676	ppbV	98
22) isopropyl alcohol	5.923	45	1151090	30.553	ppbV	100
23) acrylonitrile	6.160	53	335471	18.413	ppbV	98
24) pentane	6.230	43	814509	15.326	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540787.D
 Acq On : 21 Nov 2023 1:00 AM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD020
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:59:52 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 09:57:31 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.257	31	804059	20.602	ppbV	99
26) 1,1-dichloroethene	6.534	61	648908	20.137	ppbV	99
27) tertiary butyl alcohol	6.582	59	860716	21.772	ppbV	97
28) methylene chloride	6.678	49	502502	18.304	ppbV	96
29) 3-chloropropene	6.804	41	584564	15.270	ppbV	98
30) carbon disulfide	6.978	76	1252033	22.412	ppbV	98
31) Freon 113	6.972	101	729147	20.023	ppbV	98
32) trans-1,2-dichloroethene	7.725	61	669952	21.185	ppbV	99
33) 1,1-dichloroethane	7.950	63	810916	19.241	ppbV	99
34) MTBE	8.008	73	1004701	19.095	ppbV	98
35) vinyl acetate	8.125	43	870918	15.705	ppbV	99
36) 2-butanone	8.383	43	889455	15.354	ppbV	100
37) cis-1,2-dichloroethene	8.892	61	632240	20.573	ppbV	98
38) Ethyl Acetate	9.158	61	173199	21.162	ppbV	94
39) chloroform	9.233	83	811653	22.967	ppbV	98
40) Tetrahydrofuran	9.658	42	563263	15.487	ppbV	99
41) 2,2-dichloropropane	9.250	77	571753	21.122	ppbV	98
42) 1,2-dichloroethane	10.058	62	476731	20.107	ppbV	99
44) hexane	9.142	57	879097	18.772	ppbV	96
45) diisopropyl ether	9.133	87	450983	20.163	ppbV	89
46) tert-butyl ethyl ether	9.750	59	1495381	17.811	ppbV	99
48) 1,1,1-trichloroethane	10.350	97	631293	18.795	ppbV	98
49) 1,1-dichloropropene	10.713	75	637372	17.361	ppbV	99
50) benzene	10.873	78	1557727	18.217	ppbV	99
51) thiophene	0.000		0	N.D.	d	
52) carbon tetrachloride	11.047	117	606153	21.942	ppbV	99
53) cyclohexane	11.193	56	951797	19.091	ppbV	99
54) tert-amyl methyl ether	11.560	73	1201767	16.415	ppbV	99
55) dibromomethane	11.787	93	468022	19.008	ppbV	99
56) 1,2-dichloropropane	11.820	63	570940	16.640	ppbV	98
57) bromodichloromethane	12.047	83	829016	22.211	ppbV	96
58) 1,4-dioxane	12.080	88	384888	20.455	ppbV	100
59) trichloroethene	12.100	130	617911	19.162	ppbV	98
60) 2,2,4-trimethylpentane	12.147	57	2939732	19.169	ppbV	99
61) methyl methacrylate	12.333	41	561809	13.697	ppbV	98
62) heptane	12.460	43	938949	13.377	ppbV	97
63) cis-1,3-dichloropropene	13.108	75	773490	18.130	ppbV	99
64) 4-methyl-2-pentanone	13.150	43	1086757	13.512	ppbV	99
65) trans-1,3-dichloropropene	13.733	75	626029	18.529	ppbV	99
66) 1,1,2-trichloroethane	13.933	97	568969	17.875	ppbV	95

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540787.D
 Acq On : 21 Nov 2023 1:00 AM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD020
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:59:52 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 09:57:31 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.250	91	1856534	18.794	ppbV	97
70) 2-methylthiophene	0.000		0	N.D.	d	
71) 1,3-dichloropropane	14.275	76	808165	17.548	ppbV	99
72) 2-hexanone	14.525	43	1014366	13.306	ppbV	97
73) 3-methylthiophene	0.000		0	N.D.	d	
74) dibromochloromethane	14.692	129	787922	23.132	ppbV	98
75) 1,2-dibromoethane	14.942	107	825707	18.496	ppbV	97
76) butyl acetate	15.175	73	206951	17.310	ppbV	98
77) octane	15.275	85	741899	20.372	ppbV	96
78) tetrachloroethene	15.408	166	742545	20.227	ppbV	96
79) 1,1,1,2-tetrachloroethane	16.033	131	627387	20.765	ppbV	93
80) chlorobenzene	16.050	112	1430580	19.208	ppbV	99
81) ethylbenzene	16.400	91	2428856	18.753	ppbV	98
82) 2-ethylthiophene	0.000		0	N.D.	d	
83) m+p-xylene	16.567	91	3854278	38.066	ppbV	99
84) bromoform	16.633	173	729041	26.034	ppbV	98
85) styrene	16.892	104	1543897	19.287	ppbV	98
86) 1,1,2,2-tetrachloroethane	16.983	83	1472999	19.424	ppbV	100
87) o-xylene	16.983	91	1951911	19.207	ppbV	99
88) 1,2,3-trichloropropane	17.100	75	1045717	18.078	ppbV	99
89) nonane	17.183	43	1480925	14.014	ppbV	98
91) isopropylbenzene	17.500	105	2416331	19.119	ppbV	99
92) bromobenzene	17.583	77	1385697	18.596	ppbV	99
93) 2-chlorotoluene	17.908	126	761470	20.650	ppbV	97
94) n-propylbenzene	17.942	120	887877	21.019	ppbV	97
95) 4-chlorotoluene	17.967	126	758425	20.602	ppbV	94
96) 4-ethyl toluene	18.058	105	2566865	19.208	ppbV	98
97) 1,3,5-trimethylbenzene	18.125	105	2194990	17.687	ppbV	96
98) tert-butylbenzene	18.467	119	2380441	20.523	ppbV	98
99) 1,2,4-trimethylbenzene	18.467	105	2176621	19.208	ppbV	98
100) decane	18.550	57	2117726	18.557	ppbV	99
101) Benzyl Chloride	18.592	91	1552462	21.911	ppbV	98
102) 1,3-dichlorobenzene	18.600	146	1536404	20.273	ppbV	99
103) 1,4-dichlorobenzene	18.658	146	1529769	20.425	ppbV	98
104) sec-butylbenzene	18.692	105	3128647	19.244	ppbV	98
105) 1,2,3-trimethylbenzene	18.825	105	1857341	19.780	ppbV	99
106) p-isopropyltoluene	18.817	119	2693368	21.442	ppbV	97
107) 1,2-dichlorobenzene	18.942	146	1460401	19.927	ppbV	98
108) n-butylbenzene	19.167	91	2655326	19.831	ppbV	97
109) indan	18.992	117	2329393	20.675	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540787.D
 Acq On : 21 Nov 2023 1:00 AM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD020
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:59:52 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 09:57:31 2023
 Response via : Initial Calibration

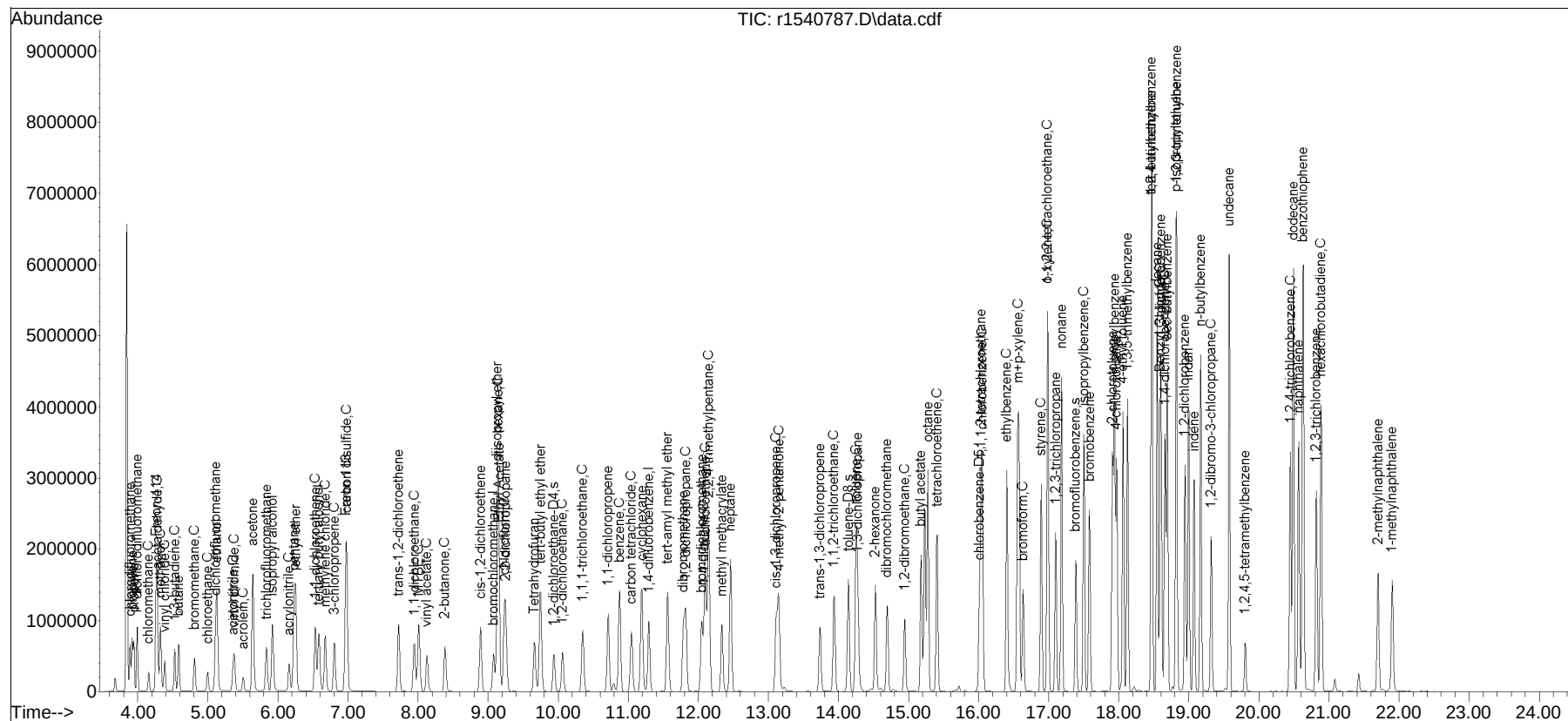
CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.075	115	1536863	20.246	ppbV	99
111) 1,2-dibromo-3-chloropr...	19.317	75	538793	20.552	ppbV	96
112) undecane	19.575	57	2365333	19.187	ppbV	99
113) 1,2,4,5-tetramethylben...	19.800	119	410868	19.827	ppbV	98
114) dodecane	20.492	57	2340283	20.627	ppbV	99
115) 1,2,4-trichlorobenzene	20.450	180	1245159	24.013	ppbV	97
116) naphthalene	20.567	128	3229944	21.462	ppbV	100
117) 1,2,3-trichlorobenzene	20.817	180	1088135	23.914	ppbV	98
118) benzothiophene	20.625	134	5581300	21.671	ppbV	100
119) hexachlorobutadiene	20.883	225	976621	23.377	ppbV	98
120) 2-methylnaphthalene	21.700	142	1105388	21.930	ppbV	97
121) 1-methylnaphthalene	21.900	142	1044543	21.306	ppbV	98

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

```
Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540787.D
Acq On    : 21 Nov 2023    1:00 AM
Operator  : AIRLAB15:RAY
Sample    : IT015-SIMSTD020
Misc      : WG1855304
ALS Vial  : 0    Sample Multiplier: 1
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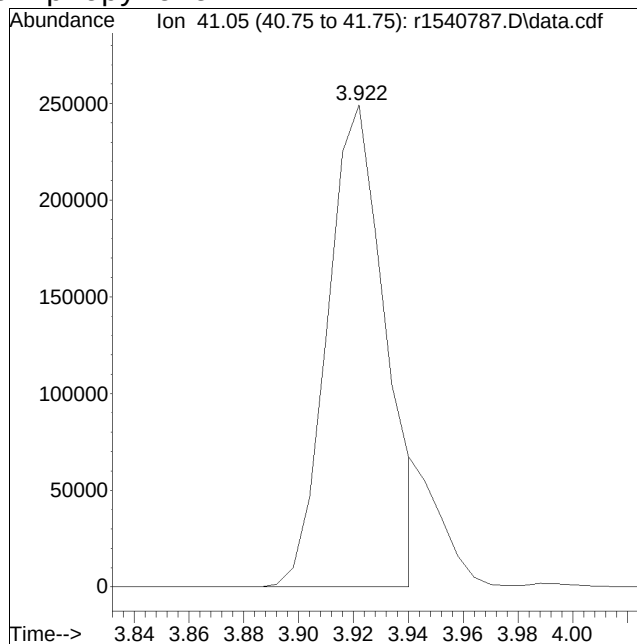
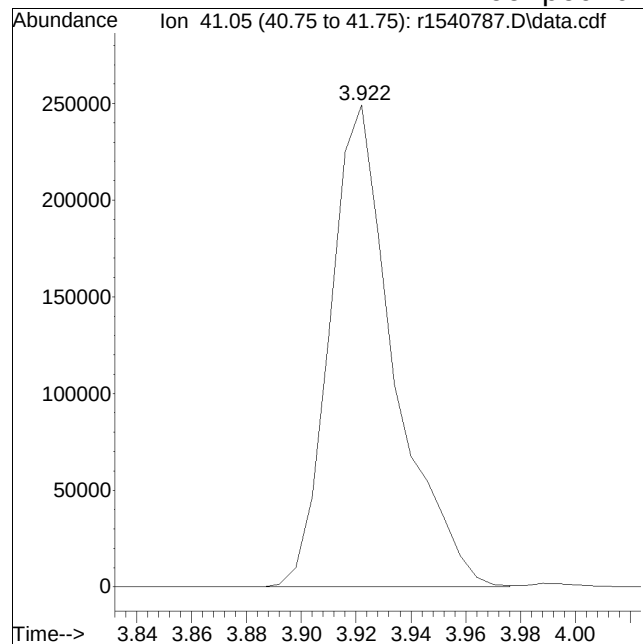
Quant Time: Nov 21 09:59:52 2023
Quant Method : 0:\Forensics\Data\AirLab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration



Manual Integration Report

Data Path : 0:\Forensics\Data\AirLab15QMethod : TFS15_231120.M
Data File : r1540787.D Operator : AIRLAB15:RAY
Date Inj'd : 11/21/2020 0:1: 0 Instrument :
Sample : IT015-SIMSTD020 Quant Date : 11/21/2023 9:59 am

Compound #3: propylene



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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540788.D
 Acq On : 21 Nov 2023 1:39 AM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD050
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:00:12 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 09:57:31 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.083	49	331168	10.000	ppbV	# 0.00
Standard Area = 345270			Recovery =		95.92%	
43) 1,4-difluorobenzene	11.293	114	1002724	10.000	ppbV	0.00
Standard Area = 974868			Recovery =		102.86%	
67) chlorobenzene-D5	16.008	54	153230	10.000	ppbV	0.00
Standard Area = 166825			Recovery =		91.85%	
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.942	65	361381	8.544	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		85.44%	
69) toluene-D8	14.142	98	1307764	10.618	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		106.18%	
90) bromofluorobenzene	17.392	95	875209	10.904	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		109.04%	
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.892	51	1388375	45.780	ppbV	97
3) propylene	3.922	41	874282M6	42.134	ppbV	
4) propane	3.946	29	987946	40.102	ppbV	92
5) dichlorodifluoromethane	3.994	85	1597182	51.044	ppbV	99
6) chloromethane	4.162	50	594766	29.383	ppbV	99
7) Freon-114	4.264	85	1444701	38.244	ppbV	98
8) methanol	4.330	31	1533672	156.903	ppbV	97
9) vinyl chloride	4.390	62	940117	47.471	ppbV	96
10) 1,3-butadiene	4.528	54	576041	35.814	ppbV	# 78
11) butane	4.588	43	1150713	32.105	ppbV	97
12) acetaldehyde	4.282	29	1336259	115.512	ppbV	# 74
13) bromomethane	4.810	94	733065	48.975	ppbV	97
14) chloroethane	5.002	64	472827	49.235	ppbV	98
15) ethanol	5.140	31	2565387	167.004	ppbV	87
16) dichlorofluoromethane	5.110	67	1514720	44.912	ppbV	99
17) vinyl bromide	5.383	106	760019	51.611	ppbV	97
18) acrolein	5.507	56	350980	39.022	ppbV	98
19) acetone	5.643	43	4177465	163.947	ppbV	92
20) acetonitrile	5.367	41	754112	37.558	ppbV	97
21) trichlorofluoromethane	5.840	101	1262473	53.951	ppbV	98
22) isopropyl alcohol	5.930	45	2721570	75.044	ppbV	99
23) acrylonitrile	6.163	53	963139	54.918	ppbV	100
24) pentane	6.233	43	1969333	38.494	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540788.D
 Acq On : 21 Nov 2023 1:39 AM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD050
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:00:12 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 09:57:31 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.257	31	1817286	48.371	ppbV	94
26) 1,1-dichloroethene	6.534	61	1607453	51.821	ppbV	94
27) tertiary butyl alcohol	6.588	59	2160059	56.761	ppbV	95
28) methylene chloride	6.678	49	1157685	43.808	ppbV	88
29) 3-chloropropene	6.810	41	1476005	40.053	ppbV	98
30) carbon disulfide	6.978	76	2942826	54.725	ppbV	97
31) Freon 113	6.978	101	1839658	52.480	ppbV	93
32) trans-1,2-dichloroethene	7.725	61	1688597	55.471	ppbV	95
33) 1,1-dichloroethane	7.950	63	2065904	50.922	ppbV	99
34) MTBE	8.008	73	2423438	47.847	ppbV	97
35) vinyl acetate	8.133	43	2206756	41.340	ppbV	99
36) 2-butanone	8.383	43	2190032	39.274	ppbV	99
37) cis-1,2-dichloroethene	8.892	61	1592213	53.822	ppbV	92
38) Ethyl Acetate	9.158	61	440351	55.894	ppbV	80
39) chloroform	9.233	83	1814326	53.333	ppbV	98
40) Tetrahydrofuran	9.658	42	1405554	40.146	ppbV	98
41) 2,2-dichloropropane	9.258	77	1298354	49.827	ppbV	97
42) 1,2-dichloroethane	10.067	62	1128055	49.425	ppbV	96
44) hexane	9.142	57	2038584	42.801	ppbV	88
45) diisopropyl ether	9.133	87	1068594	46.975	ppbV	80
46) tert-butyl ethyl ether	9.750	59	3670499	42.985	ppbV	98
48) 1,1,1-trichloroethane	10.350	97	1544636	45.216	ppbV	96
49) 1,1-dichloropropene	10.713	75	1506117	40.336	ppbV	96
50) benzene	10.880	78	3672194	42.225	ppbV	97
51) thiophene	0.000		0	N.D.	d	
52) carbon tetrachloride	11.047	117	1387329	49.377	ppbV	99
53) cyclohexane	11.193	56	2288856	45.139	ppbV	99
54) tert-amyl methyl ether	11.560	73	2936099	39.432	ppbV	98
55) dibromomethane	11.787	93	1169404	46.696	ppbV	95
56) 1,2-dichloropropane	11.820	63	1468209	42.073	ppbV	96
57) bromodichloromethane	12.047	83	1896086	49.947	ppbV	97
58) 1,4-dioxane	12.080	88	950495	49.668	ppbV	99
59) trichloroethene	12.100	130	1607772	49.022	ppbV	99
60) 2,2,4-trimethylpentane	12.147	57	6770882	43.409	ppbV #	98
61) methyl methacrylate	12.340	41	1388045	33.272	ppbV	94
62) heptane	12.460	43	2230872	31.250	ppbV	96
63) cis-1,3-dichloropropene	13.117	75	1843974	42.496	ppbV	99
64) 4-methyl-2-pentanone	13.150	43	2604106	31.835	ppbV	95
65) trans-1,3-dichloropropene	13.733	75	1505703	43.818	ppbV	99
66) 1,1,2-trichloroethane	13.942	97	1487863	45.960	ppbV	90

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540788.D
 Acq On : 21 Nov 2023 1:39 AM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD050
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:00:12 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 09:57:31 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.250	91	4559312	49.981	ppbV	97
70) 2-methylthiophene	0.000		0	N.D.	d	
71) 1,3-dichloropropane	14.283	76	1899270	44.657	ppbV	97
72) 2-hexanone	14.525	43	2467472	35.050	ppbV	94
73) 3-methylthiophene	0.000		0	N.D.	d	
74) dibromochloromethane	14.700	129	1940709	61.697	ppbV	98
75) 1,2-dibromoethane	14.950	107	2073137	50.288	ppbV	95
76) butyl acetate	15.175	73	521194	47.206	ppbV	90
77) octane	15.275	85	1742999	51.827	ppbV	95
78) tetrachloroethene	15.408	166	1803684	53.203	ppbV	99
79) 1,1,1,2-tetrachloroethane	16.033	131	1498380	53.701	ppbV	95
80) chlorobenzene	16.058	112	3420224	49.727	ppbV	97
81) ethylbenzene	16.400	91	5954234	49.781	ppbV	100
82) 2-ethylthiophene	0.000		0	N.D.	d	
83) m+p-xylene	16.575	91	9110919	97.439	ppbV	99
84) bromoform	16.642	173	1792646	69.321	ppbV	97
85) styrene	16.892	104	3784360	51.194	ppbV	96
86) 1,1,2,2-tetrachloroethane	16.983	83	3169307	45.256	ppbV	100
87) o-xylene	16.992	91	4362798	46.489	ppbV	96
88) 1,2,3-trichloropropane	17.100	75	2428747	45.467	ppbV	98
89) nonane	17.183	43	3365869	34.492	ppbV #	95
91) isopropylbenzene	17.500	105	5736181	49.149	ppbV	99
92) bromobenzene	17.583	77	3184903	46.282	ppbV	85
93) 2-chlorotoluene	17.908	126	1851488	54.369	ppbV	86
94) n-propylbenzene	17.942	120	2091233	53.610	ppbV	94
95) 4-chlorotoluene	17.975	126	1856089	54.598	ppbV	93
96) 4-ethyl toluene	18.067	105	6209747	50.319	ppbV	99
97) 1,3,5-trimethylbenzene	18.125	105	5852196	51.064	ppbV	97
98) tert-butylbenzene	18.475	119	5061003	47.249	ppbV	97
99) 1,2,4-trimethylbenzene	18.475	105	4778393	45.663	ppbV	93
100) decane	18.550	57	4752180	45.092	ppbV #	99
101) Benzyl Chloride	18.592	91	3938975	60.202	ppbV	95
102) 1,3-dichlorobenzene	18.608	146	3712691	53.050	ppbV	96
103) 1,4-dichlorobenzene	18.658	146	3729101	53.916	ppbV	96
104) sec-butylbenzene	18.692	105	7403527	49.312	ppbV	96
105) 1,2,3-trimethylbenzene	18.825	105	4005990	46.197	ppbV	100
106) p-isopropyltoluene	18.825	119	5695596	49.100	ppbV	99
107) 1,2-dichlorobenzene	18.950	146	3487017	51.523	ppbV	97
108) n-butylbenzene	19.175	91	6160336	49.821	ppbV	93
109) indan	19.000	117	5307632	51.012	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540788.D
 Acq On : 21 Nov 2023 1:39 AM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD050
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:00:12 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 09:57:31 2023
 Response via : Initial Calibration

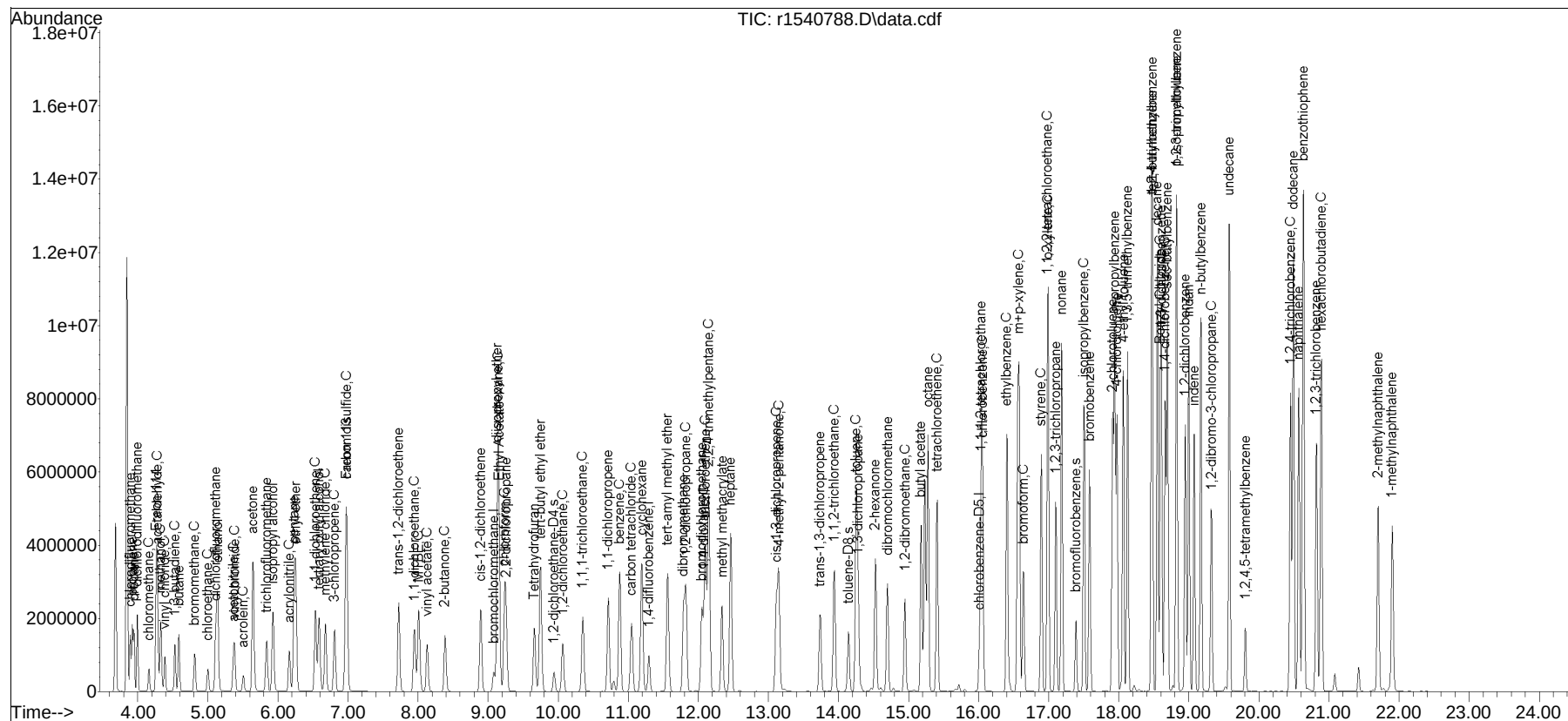
CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.075	115	3680302	52.501	ppbV	98
111) 1,2-dibromo-3-chloropr...	19.325	75	1320940	54.563	ppbV	97
112) undecane	19.575	57	5187362	45.564	ppbV #	95
113) 1,2,4,5-tetramethylben...	19.808	119	1039447	54.317	ppbV	99
114) dodecane	20.492	57	4993345	47.658	ppbV	98
115) 1,2,4-trichlorobenzene	20.450	180	3195883	66.739	ppbV	98
116) naphthalene	20.567	128	7917678	56.972	ppbV	99
117) 1,2,3-trichlorobenzene	20.817	180	2784969	66.279	ppbV	97
118) benzothiophene	20.633	134	13309016	55.959	ppbV	100
119) hexachlorobutadiene	20.892	225	2404951	62.338	ppbV	96
120) 2-methylnaphthalene	21.700	142	3305638	71.015	ppbV	99
121) 1-methylnaphthalene	21.900	142	3069669	67.803	ppbV	99

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

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Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540788.D
Acq On    : 21 Nov 2023    1:39 AM
Operator  : AIRLAB15:RAY
Sample    : IT015-SIMSTD050
Misc      : WG1855304
ALS Vial  : 0    Sample Multiplier: 1
```

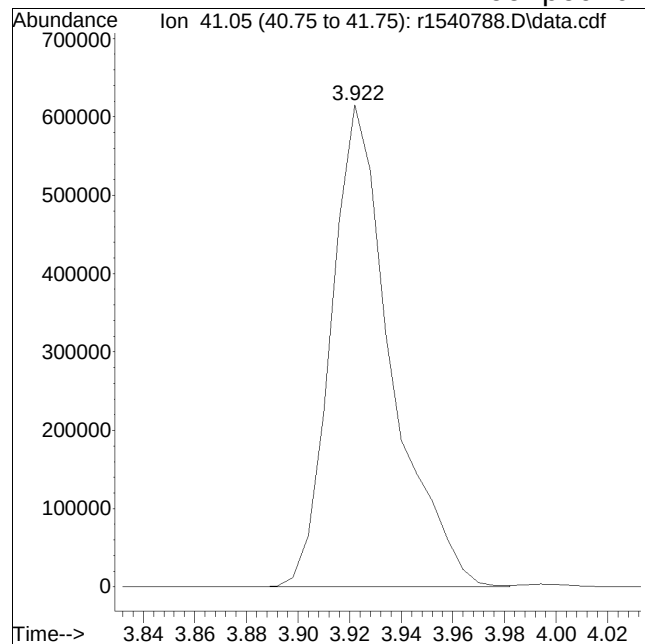
Quant Time: Nov 21 10:00:12 2023
Quant Method : 0:\Forensics\Data\AirLab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration



Manual Integration Report

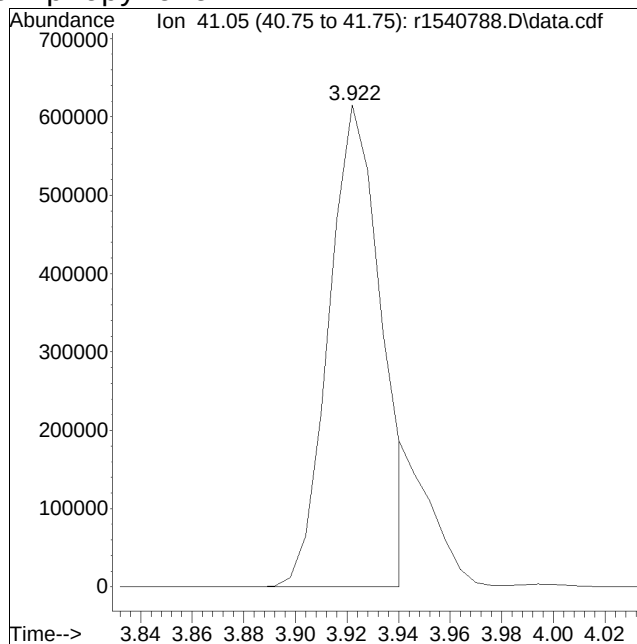
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1540788.D Operator : AIRLAB15:RAY
Date Inj'd : 11/21/2020 0:1: 9 Instrument :
Sample : IT015-SIMSTD050 Quant Date : 11/21/2023 10:00 am

Compound #3: propylene



Original Peak Response = 999158

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



Manual Peak Response = 874282 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540789.D
 Acq On : 21 Nov 2023 2:20 AM
 Operator : AIRLAB15:RAY
 Sample : IT015-LLSTD100
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:00:32 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 09:57:31 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.083	49	318523	10.000	ppbV	# 0.00
Standard Area = 345270			Recovery =		92.25%	
43) 1,4-difluorobenzene	11.293	114	1013177	10.000	ppbV	0.00
Standard Area = 974868			Recovery =		103.93%	
67) chlorobenzene-D5	16.017	54	141196	10.000	ppbV	# 0.00
Standard Area = 166825			Recovery =		84.64%	
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.942	65	361638	8.462	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		84.62%	
69) toluene-D8	14.142	98	1361201	11.994	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		119.94%	
90) bromofluorobenzene	17.392	95	884337	11.957	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		119.57%	
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.892	51	2494031	85.503	ppbV	95
3) propylene	3.922	41	1704570M6	85.410	ppbV	
4) propane	3.946	29	1738178	73.355	ppbV	# 85
5) dichlorodifluoromethane	3.994	85	2867127	95.267	ppbV	100
6) chloromethane	4.162	50	1182123	60.719	ppbV	98
7) Freon-114	4.264	85	2552952	70.264	ppbV	99
8) methanol	4.330	31	2774526	295.117	ppbV	97
9) vinyl chloride	4.390	62	1796365	94.307	ppbV	95
10) 1,3-butadiene	4.534	54	1091032	70.526	ppbV	# 69
11) butane	4.588	43	2387004	69.242	ppbV	# 95
12) acetaldehyde	4.282	29	2210235	198.648	ppbV	# 55
13) bromomethane	4.816	94	1345947	93.490	ppbV	97
14) chloroethane	5.002	64	914934	99.053	ppbV	98
15) ethanol	5.146	31	4322135	292.537	ppbV	# 69
16) dichlorofluoromethane	5.110	67	2997348	92.401	ppbV	98
17) vinyl bromide	5.383	106	1461788	103.206	ppbV	99
18) acrolein	5.507	56	635796	73.493	ppbV	96
19) acetone	5.650	43	7846731	320.174	ppbV	# 81
20) acetonitrile	5.370	41	1519177	78.664	ppbV	96
21) trichlorofluoromethane	5.840	101	2258162	100.333	ppbV	96
22) isopropyl alcohol	5.940	45	5307761	152.166	ppbV	97
23) acrylonitrile	6.167	53	1751431	103.830	ppbV	99
24) pentane	6.233	43	3759248	76.399	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540789.D
 Acq On : 21 Nov 2023 2:20 AM
 Operator : AIRLAB15:RAY
 Sample : IT015-LLSTD100
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:00:32 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 09:57:31 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.257	31	3043370	84.222	ppbV	# 86
26) 1,1-dichloroethene	6.540	61	3036707	101.784	ppbV	91
27) tertiary butyl alcohol	6.594	59	4114530	112.412	ppbV	96
28) methylene chloride	6.684	49	2084815	82.024	ppbV	88
29) 3-chloropropene	6.810	41	2953736	83.336	ppbV	97
30) carbon disulfide	6.984	76	5258312	101.666	ppbV	97
31) Freon 113	6.978	101	3441975	102.087	ppbV	# 94
32) trans-1,2-dichloroethene	7.725	61	3192685	109.044	ppbV	90
33) 1,1-dichloroethane	7.950	63	4030188	103.282	ppbV	99
34) MTBE	8.008	73	4757363	97.655	ppbV	98
35) vinyl acetate	8.133	43	4365724	85.032	ppbV	100
36) 2-butanone	8.392	43	4254363	79.322	ppbV	97
37) cis-1,2-dichloroethene	8.900	61	2992844	105.185	ppbV	88
38) Ethyl Acetate	9.167	61	796948	105.172	ppbV	# 59
39) chloroform	9.242	83	3158290	96.524	ppbV	98
40) Tetrahydrofuran	9.658	42	2790752	82.874	ppbV	96
41) 2,2-dichloropropane	9.258	77	2371145	94.610	ppbV	# 95
42) 1,2-dichloroethane	10.067	62	2118145	96.490	ppbV	# 94
44) hexane	9.142	57	3271924	67.987	ppbV	86
45) diisopropyl ether	9.142	87	1806191	78.580	ppbV	89
46) tert-butyl ethyl ether	9.750	59	6759253	78.340	ppbV	99
48) 1,1,1-trichloroethane	10.350	97	2950504	85.479	ppbV	92
49) 1,1-dichloropropene	10.720	75	2831560	75.050	ppbV	97
50) benzene	10.880	78	6805606	77.447	ppbV	95
51) thiophene	0.000		0	N.D.	d	
52) carbon tetrachloride	11.053	117	2567107	90.425	ppbV	96
53) cyclohexane	11.193	56	4057582	79.195	ppbV	95
54) tert-amyl methyl ether	11.567	73	5698620	75.743	ppbV	97
55) dibromomethane	11.793	93	2086112	82.442	ppbV	92
56) 1,2-dichloropropane	11.827	63	2741487	77.750	ppbV	96
57) bromodichloromethane	12.053	83	3326151	86.713	ppbV	# 99
58) 1,4-dioxane	12.087	88	1654335	85.555	ppbV	99
59) trichloroethene	12.107	130	2913217	87.910	ppbV	99
60) 2,2,4-trimethylpentane	12.153	57	11419627	72.458	ppbV	# 97
61) methyl methacrylate	12.340	41	2711351	64.322	ppbV	# 90
62) heptane	12.467	43	4158234	57.648	ppbV	# 96
63) cis-1,3-dichloropropene	13.117	75	3539336	80.725	ppbV	99
64) 4-methyl-2-pentanone	13.150	43	4935542	59.714	ppbV	# 97
65) trans-1,3-dichloropropene	13.742	75	2889584	83.223	ppbV	98
66) 1,1,2-trichloroethane	13.942	97	2845536	86.992	ppbV	83

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540789.D
 Acq On : 21 Nov 2023 2:20 AM
 Operator : AIRLAB15:RAY
 Sample : IT015-LLSTD100
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:00:32 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 09:57:31 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.258	91	8074171	96.055	ppbV	99
70) 2-methylthiophene	0.000		0	N.D.	d	
71) 1,3-dichloropropane	14.283	76	3497037	89.233	ppbV	96
72) 2-hexanone	14.533	43	4689013	72.283	ppbV #	98
73) 3-methylthiophene	0.000		0	N.D.	d	
74) dibromochloromethane	14.700	129	3521623	121.499	ppbV	99
75) 1,2-dibromoethane	14.950	107	3878138	102.090	ppbV	95
76) butyl acetate	15.183	73	1007353	99.016	ppbV	82
77) octane	15.283	85	3007409	97.045	ppbV	97
78) tetrachloroethene	15.408	166	3271177	104.713	ppbV	98
79) 1,1,1,2-tetrachloroethane	16.042	131	2549307	99.153	ppbV	95
80) chlorobenzene	16.058	112	5929716	93.560	ppbV	94
81) ethylbenzene	16.408	91	10385229	94.227	ppbV	97
82) 2-ethylthiophene	0.000		0	N.D.	d	
83) m+p-xylene	16.575	91	14945686	173.464	ppbV	96
84) bromoform	16.642	173	3296346	138.333	ppbV	98
85) styrene	16.900	104	7081420	103.960	ppbV	95
86) 1,1,2,2-tetrachloroethane	16.992	83	4900091	75.934	ppbV	100
87) o-xylene	17.000	91	6791619	78.538	ppbV	90
88) 1,2,3-trichloropropane	17.108	75	4475927	90.933	ppbV	97
89) nonane	17.192	43	5811812	64.633	ppbV #	95
91) isopropylbenzene	17.508	105	10245800	95.271	ppbV	99
92) bromobenzene	17.583	77	5654795	89.178	ppbV #	78
93) 2-chlorotoluene	17.917	126	3290524	104.862	ppbV	91
94) n-propylbenzene	17.942	120	3677338	102.305	ppbV	80
95) 4-chlorotoluene	17.975	126	3396405	108.423	ppbV	80
96) 4-ethyl toluene	18.067	105	10949216	96.286	ppbV	97
97) 1,3,5-trimethylbenzene	18.125	105	10254031	97.098	ppbV	96
98) tert-butylbenzene	18.467	119	7741426	78.432	ppbV	92
99) 1,2,4-trimethylbenzene	18.483	105	7224992	74.928	ppbV #	85
100) decane	18.550	57	7434172	76.553	ppbV #	95
101) Benzyl Chloride	18.592	91	6675638	110.724	ppbV #	90
102) 1,3-dichlorobenzene	18.608	146	6250442	96.923	ppbV	95
103) 1,4-dichlorobenzene	18.667	146	6485243	101.755	ppbV	98
104) sec-butylbenzene	18.700	105	12245637	88.515	ppbV	92
105) 1,2,3-trimethylbenzene	18.833	105	5719268	71.576	ppbV	95
106) p-isopropyltoluene	18.825	119	7737027	72.383	ppbV	99
107) 1,2-dichlorobenzene	18.950	146	6009133	96.356	ppbV	96
108) n-butylbenzene	19.175	91	9979943	87.591	ppbV #	86
109) indan	19.000	117	9034211	94.228	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540789.D
 Acq On : 21 Nov 2023 2:20 AM
 Operator : AIRLAB15:RAY
 Sample : IT015-LLSTD100
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:00:32 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 09:57:31 2023
 Response via : Initial Calibration

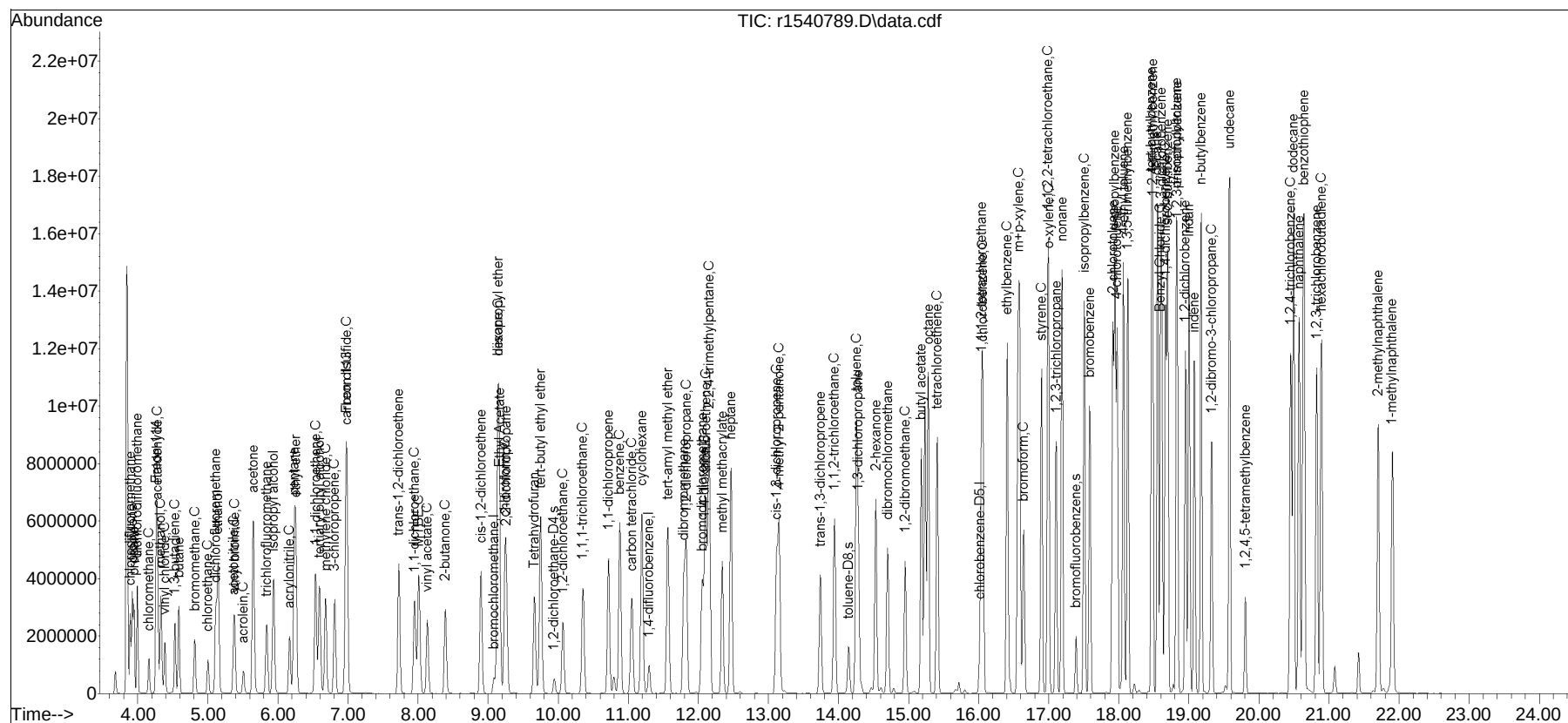
CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110)	indene	19.075	115	6498117	100.600	ppbV	95
111)	1,2-dibromo-3-chloropr...	19.325	75	2360225	105.801	ppbV	93
112)	undecane	19.583	57	7617727	72.615	ppbV #	87
113)	1,2,4,5-tetramethylben...	19.808	119	1943262	110.202	ppbV	96
114)	dodecane	20.492	57	7173717	74.304	ppbV	90
115)	1,2,4-trichlorobenzene	20.450	180	5283964	119.749	ppbV	97
116)	naphthalene	20.575	128	13357140	104.303	ppbV	97
117)	1,2,3-trichlorobenzene	20.825	180	4863880	125.620	ppbV	98
118)	benzothiophene	20.642	134	19131052	87.295	ppbV	97
119)	hexachlorobutadiene	20.892	225	3702838	104.160	ppbV	94
120)	2-methylnaphthalene	21.700	142	6431696	149.949	ppbV	97
121)	1-methylnaphthalene	21.900	142	6035777	144.682	ppbV	99

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

```
Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540789.D
Acq On    : 21 Nov 2023    2:20 AM
Operator  : AIRLAB15:RAY
Sample    : IT015-LLSTD100
Misc      : WG1855304
ALS Vial  : 0    Sample Multiplier: 1
```

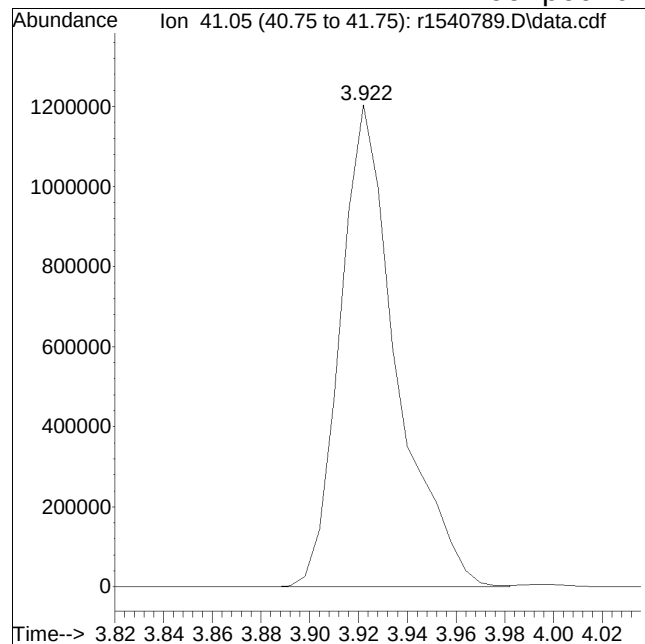
Quant Time: Nov 21 10:00:32 2023
Quant Method : 0:\Forensics\Data\AirLab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration



Manual Integration Report

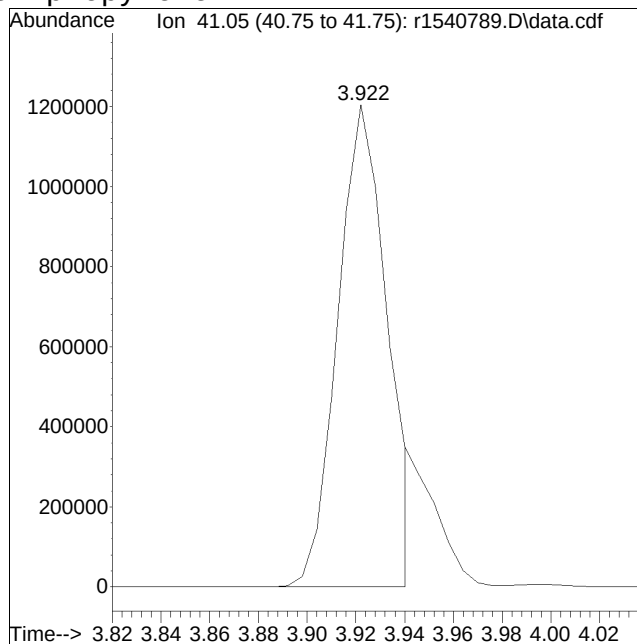
Data Path : 0:\Forensics\Data\AirLab15QMethod : TFS15_231120.M
Data File : r1540789.D Operator : AIRLAB15:RAY
Date Inj'd : 11/21/2020 0:2: 0 Instrument :
Sample : IT015-LLSTD100 Quant Date : 11/21/2023 10:00 am

Compound #3: propylene



Original Peak Response = 1942268

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



Manual Peak Response = 1704570 M6

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540792.D
 Acq On : 21 Nov 2023 1:25 PM
 Operator : AIRLAB15:RAY
 Sample : CT015-LLSTD10
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 15:45:10 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	bromochloromethane	1.000	1.000	0.0	79	0.00
2	chlorodifluoromethane	0.963	0.824	14.4	71	0.00
3	propylene	0.534	0.683	-27.9	106	0.00
4	propane	0.698	0.580	16.9	65	0.00
5	dichlorodifluoromethane	1.139	1.021	10.4	71	0.00
6 C	chloromethane	0.428	0.375	12.4	71	0.00
7	Freon-114	1.103	1.119	-1.5	80	0.00
8 C	methanol	0.228	0.165	27.6	56#	0.00
9 C	vinyl chloride	0.625	0.600	4.0	75	0.00
10 C	1,3-butadiene	0.419	0.378	9.8	72	0.00
11	butane	0.753	0.777	-3.2	88	0.00
13 C	bromomethane	0.500	0.484	3.2	76	0.00
14 C	chloroethane	0.307	0.323	-5.2	86	0.00
15	ethanol	0.376	0.340	9.6	64	0.00
16	dichlorofluoromethane	0.989	0.979	1.0	82	0.00
17 C	vinyl bromide	0.462	0.501	-8.4	90	0.00
18 C	acrolein	0.232	0.194	16.4	66	0.00
19	acetone	0.564	0.666	-18.1	98	0.00
20 C	acetonitrile	0.477	0.508	-6.5	92	0.00
21	trichlorofluoromethane	0.851	0.847	0.5	78	0.00
22	isopropyl alcohol	0.711	0.731	-2.8	87	0.00
23 C	acrylonitrile	0.507	0.342	32.5#	56#	0.00
24	pentane	1.206	0.945	21.6	64	0.00
25	ethyl ether	1.172	0.706	39.8#	48#	0.00
26 C	1,1-dichloroethene	0.981	1.160	-18.2	96	0.00
27	tertiary butyl alcohol	1.205	1.356	-12.5	94	0.00
28 C	methylene chloride	0.771	0.778	-0.9	79	0.00
29 C	3-chloropropene	0.869	1.095	-26.0	104	0.00
30 C	carbon disulfide	1.811	1.962	-8.3	87	0.00
31	Freon 113	1.116	1.386	-24.2	102	0.00
32	trans-1,2-dichloroethene	0.982	1.149	-17.0	97	0.00
33 C	1,1-dichloroethane	1.238	1.459	-17.9	96	0.00
34 C	MTBE	1.494	1.698	-13.7	93	0.00
35 C	vinyl acetate	1.261	1.287	-2.1	86	0.00
36 C	2-butanone	1.329	1.497	-12.6	93	0.00
37	cis-1,2-dichloroethene	0.937	1.104	-17.8	95	0.00
38	Ethyl Acetate	0.248	0.319	-28.6	106	0.00
39 C	chloroform	1.226	1.231	-0.4	78	0.00
40	Tetrahydrofuran	0.830	0.954	-14.9	95	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540792.D
 Acq On : 21 Nov 2023 1:25 PM
 Operator : AIRLAB15:RAY
 Sample : CT015-LLSTD10
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 15:45:10 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	2,2-dichloropropane	0.834	0.804	3.6	77	0.00
42 C	1,2-dichloroethane	0.743	0.752	-1.2	82	0.00
43 I	1,4-difluorobenzene	1.000	1.000	0.0	96	0.00
44 C	hexane	0.437	0.432	1.1	93	0.00
45	diisopropyl ether	0.221	0.210	5.0	89	0.00
46	tert-butyl ethyl ether	0.750	0.698	6.9	88	0.00
47 s	1,2-dichloroethane-D4	0.371	0.353	4.9	90	0.00
48 C	1,1,1-trichloroethane	0.323	0.303	6.2	88	0.00
49	1,1-dichloropropene	0.325	0.300	7.7	88	0.00
50 C	benzene	0.809	0.715	11.6	83	0.00
52 C	carbon tetrachloride	0.301	0.263	12.6	78	0.00
53	cyclohexane	0.477	0.462	3.1	93	0.00
54	tert-amyl methyl ether	0.607	0.572	5.8	90	0.00
55	dibromomethane	0.235	0.230	2.1	95	0.00
56 C	1,2-dichloropropane	0.294	0.303	-3.1	98	0.00
57	bromodichloromethane	0.404	0.374	7.4	85	0.00
58 C	1,4-dioxane	0.187	0.190	-1.6	97	0.00
59 C	trichloroethene	0.319	0.330	-3.4	98	0.00
60 C	2,2,4-trimethylpentane	1.456	1.457	-0.1	94	0.00
61	methyl methacrylate	0.277	0.298	-7.6	102	0.00
62	heptane	0.481	0.475	1.2	94	0.00
63 C	cis-1,3-dichloropropene	0.377	0.364	3.4	86	0.00
64 C	4-methyl-2-pentanone	0.545	0.541	0.7	93	0.00
65	trans-1,3-dichloropropene	0.301	0.277	8.0	81	0.00
66 C	1,1,2-trichloroethane	0.292	0.311	-6.5	101	0.00
67 I	chlorobenzene-D5	1.000	1.000	0.0	80	0.00
68 C	toluene	5.734	6.674	-16.4	94	0.00
69 s	toluene-D8	7.635	9.474	-24.1	107	0.00
71	1,3-dichloropropane	2.549	2.567	-0.7	83	0.00
72	2-hexanone	3.051	3.510	-15.0	93	0.00
74	dibromochloromethane	2.230	2.850	-27.8	100	0.00
75 C	1,2-dibromoethane	2.593	2.961	-14.2	92	0.00
76	butyl acetate	0.626	0.677	-8.1	87	0.00
77	octane	2.251	2.392	-6.3	87	0.00
78 C	tetrachloroethene	2.301	2.685	-16.7	94	0.00
79	1,1,1,2-tetrachloroethane	1.812	2.157	-19.0	96	0.00
80 C	chlorobenzene	4.481	5.031	-12.3	89	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540792.D
 Acq On : 21 Nov 2023 1:25 PM
 Operator : AIRLAB15:RAY
 Sample : CT015-LLSTD10
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 15:45:10 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81 C	ethylbenzene	7.343	8.767	-19.4	94	0.00
83 C	m+p-xylene	5.792	6.986	-20.6	94	0.00
84 C	bromoform	1.938	2.615	-34.9#	104	0.00
85 C	styrene	4.694	5.655	-20.5	96	0.00
86 C	1,1,2,2-tetrachloroethane	4.357	5.023	-15.3	86	0.00
87 C	o-xylene	5.778	7.090	-22.7	93	0.00
88	1,2,3-trichloropropane	3.231	3.355	-3.8	84	0.00
89	nonane	4.585	4.888	-6.6	86	0.00
90 s	bromofluorobenzene	4.973	5.929	-19.2	102	0.00
91 C	isopropylbenzene	7.342	8.667	-18.0	96	0.00
92	bromobenzene	4.272	4.517	-5.7	85	0.00
93	2-chlorotoluene	2.221	2.602	-17.2	94	0.00
94	n-propylbenzene	2.613	2.970	-13.7	90	0.00
95	4-chlorotoluene	2.232	2.506	-12.3	90	0.00
96	4-ethyl toluene	7.753	9.337	-20.4	97	0.00
97	1,3,5-trimethylbenzene	7.201	8.906	-23.7	91	0.00
98	tert-butylbenzene	7.043	8.094	-14.9	88	0.00
99	1,2,4-trimethylbenzene	6.485	7.908	-21.9	89	0.00
100	decane	6.136	7.004	-14.1	87	0.00
101 C	Benzyl Chloride	3.901	4.853	-24.4	90	0.00
102	1,3-dichlorobenzene	4.602	5.530	-20.2	92	0.00
103 C	1,4-dichlorobenzene	4.546	5.411	-19.0	91	0.00
104	sec-butylbenzene	9.447	10.858	-14.9	90	0.00
106	p-isopropyltoluene	7.897	9.002	-14.0	95	0.00
107	1,2-dichlorobenzene	4.329	5.262	-21.6	91	0.00
108	n-butylbenzene	7.571	9.281	-22.6	92	0.00
111 C	1,2-dibromo-3-chloropropane	1.540	1.668	-8.3	81	0.00
112	undecane	6.581	7.659	-16.4	82	0.00
114	dodecane	6.085	7.445	-22.4	76	0.00
115 C	1,2,4-trichlorobenzene	3.363	4.068	-21.0	80	0.00
116	naphthalene	8.774	10.532	-20.0	84	0.00
117	1,2,3-trichlorobenzene	2.982	3.643	-22.2	85	0.00
119 C	hexachlorobutadiene	2.852	3.242	-13.7	77	0.00

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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540792.D
 Acq On : 21 Nov 2023 1:25 PM
 Operator : AIRLAB15:RAY
 Sample : CT015-LLSTD10
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 15:45:10 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
 Sub List : Default-ICV-AP2 - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.083	49	274409	10.000	ppbV	# 0.00
Standard Area = 345270			Recovery =		79.48%	
43) 1,4-difluorobenzene	11.293	114	938510	10.000	ppbV	0.00
Standard Area = 974868			Recovery =		96.27%	
67) chlorobenzene-D5	16.017	54	133589	10.000	ppbV	0.00
Standard Area = 166825			Recovery =		80.08%	
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.942	65	331314	9.506	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		95.06%	
69) toluene-D8	14.142	98	1265663	12.410	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		124.10%	
90) bromofluorobenzene	17.392	95	791994	11.922	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		119.22%	
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.892	51	225989	8.551	ppbV	96
3) propylene	3.922	41	187437M6	12.791	ppbV	
4) propane	3.946	29	159039	8.308	ppbV	# 87
5) dichlorodifluoromethane	3.994	85	280066	8.962	ppbV	99
6) chloromethane	4.156	50	102860	8.753	ppbV	97
7) Freon-114	4.264	85	306936	10.141	ppbV	99
8) methanol	4.324	31	226579	36.259	ppbV	96
9) vinyl chloride	4.384	62	164723	9.611	ppbV	95
10) 1,3-butadiene	4.528	54	103690	9.028	ppbV	# 70
11) butane	4.588	43	213148	10.314	ppbV	# 96
13) bromomethane	4.810	94	132777	9.673	ppbV	98
14) chloroethane	5.002	64	88512	10.515	ppbV	98
15) ethanol	5.128	31	466795	45.213	ppbV	# 81
16) dichlorofluoromethane	5.110	67	268715	9.899	ppbV	99
17) vinyl bromide	5.383	106	137574	10.855	ppbV	97
18) acrolein	5.507	56	53114	8.329	ppbV	98
19) acetone	5.643	43	913204	58.959	ppbV	86
20) acetonitrile	5.363	41	139413	10.640	ppbV	98
21) trichlorofluoromethane	5.837	101	232298	9.946	ppbV	96
22) isopropyl alcohol	5.923	45	501279	25.687	ppbV	98
23) acrylonitrile	6.160	53	93858	6.748	ppbV	99
24) pentane	6.233	43	259286	7.833	ppbV	94
25) ethyl ether	6.260	31	193775	6.027	ppbV	# 83

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540792.D
 Acq On : 21 Nov 2023 1:25 PM
 Operator : AIRLAB15:RAY
 Sample : CT015-LLSTD10
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 15:45:10 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
 Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) 1,1-dichloroethene	6.534	61	318341	11.822	ppbV	95
27) tertiary butyl alcohol	6.588	59	372053	11.256	ppbV	97
28) methylene chloride	6.678	49	213384	10.084	ppbV	89
29) 3-chloropropene	6.810	41	300573	12.609	ppbV	96
30) carbon disulfide	6.978	76	538269	10.833	ppbV	97
31) Freon 113	6.972	101	380221	12.419	ppbV #	90
32) trans-1,2-dichloroethene	7.725	61	315208	11.701	ppbV	94
33) 1,1-dichloroethane	7.950	63	400231	11.786	ppbV	98
34) MTBE	8.017	73	465848	11.362	ppbV	98
35) vinyl acetate	8.133	43	353028	10.201	ppbV	100
36) 2-butanone	8.392	43	410717	11.261	ppbV	100
37) cis-1,2-dichloroethene	8.892	61	302826	11.776	ppbV	90
38) Ethyl Acetate	9.158	61	87592	12.862	ppbV	87
39) chloroform	9.233	83	337733	10.036	ppbV	96
40) Tetrahydrofuran	9.667	42	261767	11.489	ppbV	98
41) 2,2-dichloropropane	9.258	77	220760	9.651	ppbV #	94
42) 1,2-dichloroethane	10.067	62	206385	10.126	ppbV	95
44) hexane	9.142	57	405807	9.885	ppbV	89
45) diisopropyl ether	9.142	87	197102	9.487	ppbV	92
46) tert-butyl ethyl ether	9.750	59	654780	9.300	ppbV	99
48) 1,1,1-trichloroethane	10.350	97	284809	9.390	ppbV	96
49) 1,1-dichloropropene	10.713	75	281736	9.245	ppbV	97
50) benzene	10.880	78	671413	8.839	ppbV	97
52) carbon tetrachloride	11.047	117	247234	8.745	ppbV	98
53) cyclohexane	11.193	56	433522	9.692	ppbV	99
54) tert-amyl methyl ether	11.567	73	536668	9.415	ppbV	98
55) dibromomethane	11.787	93	215945	9.809	ppbV	93
56) 1,2-dichloropropane	11.820	63	284269	10.306	ppbV	97
57) bromodichloromethane	12.047	83	351281	9.273	ppbV	98
58) 1,4-dioxane	12.087	88	178784	10.214	ppbV	98
59) trichloroethene	12.100	130	309785	10.337	ppbV	99
60) 2,2,4-trimethylpentane	12.147	57	1367042	10.004	ppbV #	99
61) methyl methacrylate	12.340	41	279672	10.744	ppbV	93
62) heptane	12.460	43	445655	9.873	ppbV	98
63) cis-1,3-dichloropropene	13.117	75	341687	9.650	ppbV	98
64) 4-methyl-2-pentanone	13.150	43	507372	9.914	ppbV #	96
65) trans-1,3-dichloropropene	13.742	75	260166	9.220	ppbV	98
66) 1,1,2-trichloroethane	13.942	97	292280	10.677	ppbV	84
68) toluene	14.250	91	891589	11.639	ppbV	99
71) 1,3-dichloropropane	14.283	76	342862	10.070	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540792.D
 Acq On : 21 Nov 2023 1:25 PM
 Operator : AIRLAB15:RAY
 Sample : CT015-LLSTD10
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 15:45:10 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
 Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 2-hexanone	14.533	43	468868	11.504	ppbV	97
74) dibromochloromethane	14.700	129	380684	12.778	ppbV	100
75) 1,2-dibromoethane	14.950	107	395536	11.421	ppbV	96
76) butyl acetate	15.183	73	90413	10.808	ppbV	97
77) octane	15.275	85	319492	10.626	ppbV	96
78) tetrachloroethene	15.408	166	358686	11.668	ppbV	97
79) 1,1,1,2-tetrachloroethane	16.042	131	288144	11.907	ppbV	96
80) chlorobenzene	16.058	112	672106	11.227	ppbV	97
81) ethylbenzene	16.408	91	1171150	11.938	ppbV	98
83) m+p-xylene	16.567	91	1866616	24.124	ppbV	98
84) bromoform	16.633	173	349282	13.495	ppbV	98
85) styrene	16.892	104	755498	12.048	ppbV	94
86) 1,1,2,2-tetrachloroethane	16.983	83	670984	11.528	ppbV	100
87) o-xylene	16.992	91	947141	12.272	ppbV	100
88) 1,2,3-trichloropropane	17.100	75	448228	10.384	ppbV	99
89) nonane	17.183	43	652999	10.662	ppbV	97
91) isopropylbenzene	17.508	105	1157753	11.804	ppbV	98
92) bromobenzene	17.583	77	603380	10.573	ppbV	93
93) 2-chlorotoluene	17.908	126	347657	11.715	ppbV	94
94) n-propylbenzene	17.942	120	396757	11.367	ppbV	94
95) 4-chlorotoluene	17.975	126	334798	11.227	ppbV	97
96) 4-ethyl toluene	18.067	105	1247376	12.043	ppbV	98
97) 1,3,5-trimethylbenzene	18.125	105	1189677	12.367	ppbV	96
98) tert-butylbenzene	18.467	119	1081322	11.493	ppbV	95
99) 1,2,4-trimethylbenzene	18.475	105	1056458	12.195	ppbV	93
100) decane	18.550	57	935689	11.415	ppbV	98
101) Benzyl Chloride	18.592	91	648330	12.440	ppbV	98
102) 1,3-dichlorobenzene	18.608	146	738768	12.018	ppbV	97
103) 1,4-dichlorobenzene	18.658	146	722786	11.902	ppbV	96
104) sec-butylbenzene	18.692	105	1450457	11.493	ppbV	98
106) p-isopropyltoluene	18.825	119	1202590	11.399	ppbV	100
107) 1,2-dichlorobenzene	18.950	146	702912	12.155	ppbV	98
108) n-butylbenzene	19.175	91	1239871	12.259	ppbV	99
111) 1,2-dibromo-3-chloropr...	19.325	75	222763	10.830	ppbV	98
112) undecane	19.575	57	1023192	11.639	ppbV	98
114) dodecane	20.492	57	994518	12.234	ppbV	99
115) 1,2,4-trichlorobenzene	20.450	180	543436	12.096	ppbV	99
116) naphthalene	20.567	128	1406993	12.004	ppbV	100
117) 1,2,3-trichlorobenzene	20.825	180	486656	12.215	ppbV	97
119) hexachlorobutadiene	20.892	225	433105	11.369	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\
 Data File : r1540792.D
 Acq On : 21 Nov 2023 1:25 PM
 Operator : AIRLAB15:RAY
 Sample : CT015-LLSTD10
 Misc : WG1855304
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 15:45:10 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

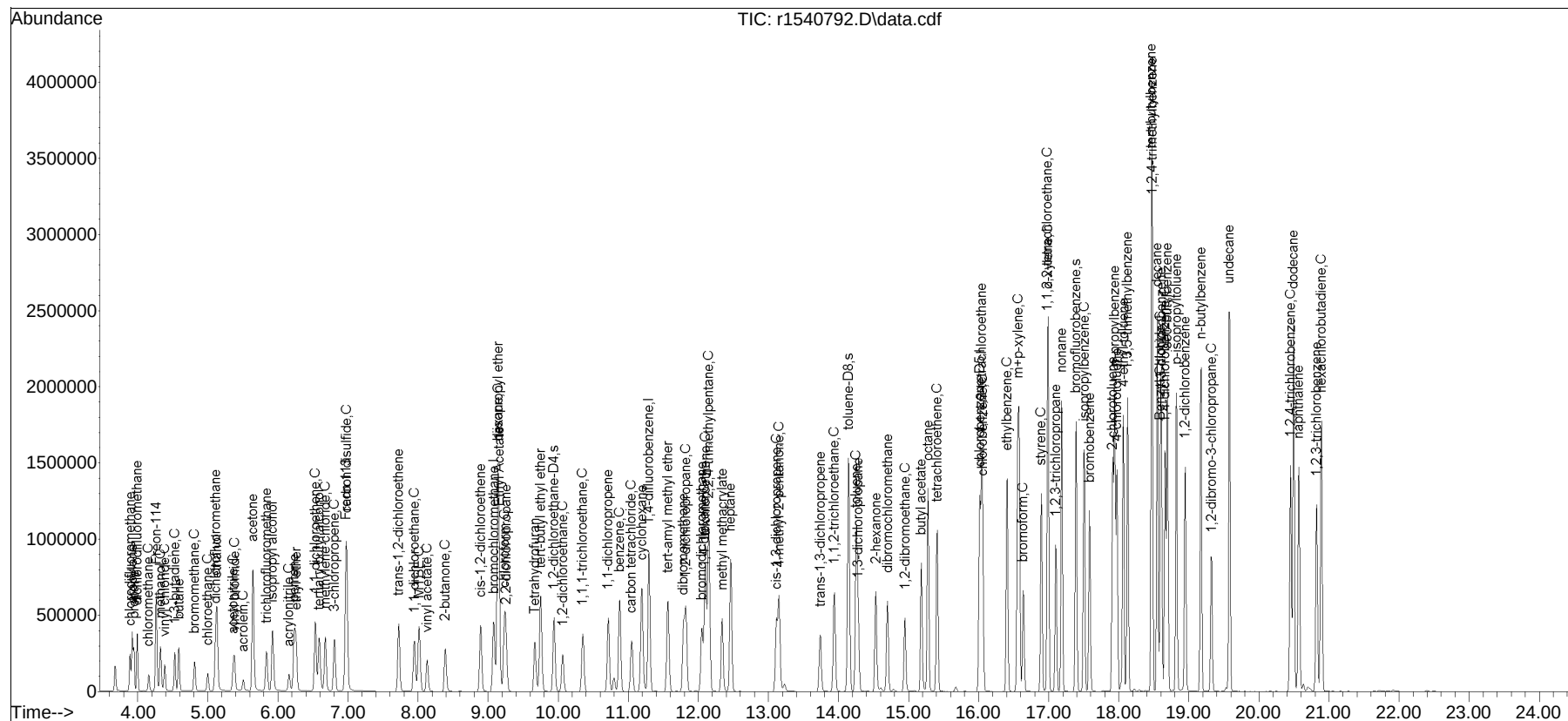
CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
 Sub List : Default-ICV-AP2 - All compounds listed

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

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

```
Data Path : 0:\Forensics\Data\AirLab15\2023\11\1120T_I\
Data File : r1540792.D
Acq On    : 21 Nov 2023    1:25 PM
Operator  : AIRLAB15:RAY
Sample    : CT015-LLSTD10
Misc      : WG1855304
ALS Vial  : 0    Sample Multiplier: 1
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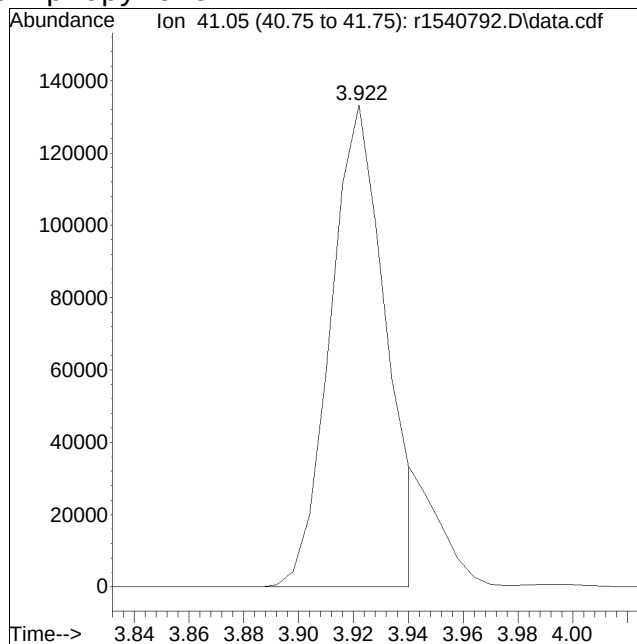
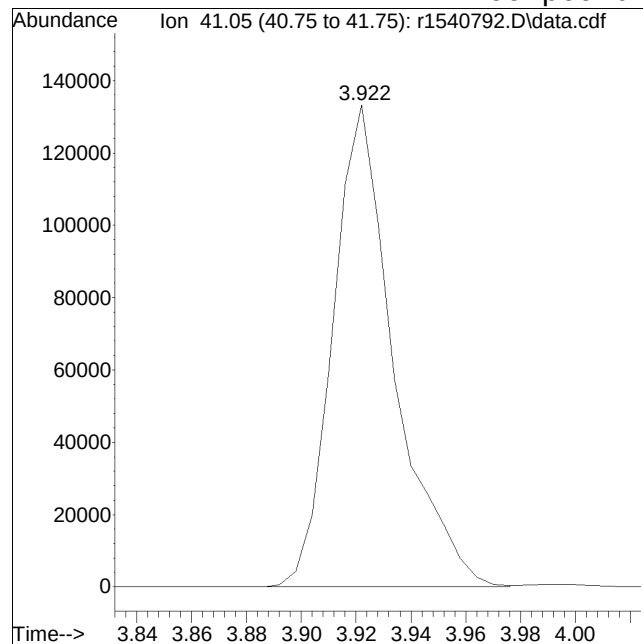
Quant Time: Nov 21 15:45:10 2023
Quant Method : 0:\Forensics\Data\AirLab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 15:43:21 2023
Response via : Initial Calibration



Manual Integration Report

Data Path : 0:\Forensics\Data\AirLab15QMethod : TFS15_231120.M
Data File : r1540792.D Operator : AIRLAB15:RAY
Date Inj'd : 11/21/2020 0:1: 5 Instrument :
Sample : CT015-LLSTD10 Quant Date : 11/21/2023 3:45 pm

Compound #3: propylene



Original Peak Response = 207143
Manual Peak Response = 187437 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Response Factor Report

Method Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Method File : TFS17_240107.M
Title : T0-14A/T0-15 SIM/Full Scan Analysis
Last Update : Mon Jan 08 15:04:29 2024
Response Via : Initial Calibration

Calibration Files

0.2 =r1737676.D 0.5 =r1737677.D 1.0 =r1737678.D 5.0 =r1737679.D 10 =r1737680.D 20 =r1737681.D
50 =r1737682.D 100 =r1737683.D

Compound		0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD

1) I	bromochloromethane	-----ISTD-----									
2)	chlorodifluoro...	0.960	0.913	0.891	0.802	0.826	0.846	0.782	0.731	0.844	8.87
3)	propylene	0.692	0.565	0.433	0.423	0.418	0.401	0.368	0.471	24.49	
4)	propane	0.701	0.688	0.610	0.595	0.622	0.589	0.562	0.624	8.27	
5)	dichlorodifluo...	1.107	0.987	0.995	0.992	0.964	0.927	0.856	0.754	0.948	11.13
6) C	chloromethane	0.563	0.530	0.529	0.516	0.513	0.493	0.460	0.424	0.504	8.67
7)	Freon-114	1.331	1.233	1.231	1.217	1.182	1.133	1.011	0.895	1.154	12.09
8) C	methanol			0.287	0.246	0.246	0.261	0.245	0.232	0.253	7.55
9) C	vinyl chloride	0.589	0.550	0.530	0.530	0.528	0.511	0.480	0.462	0.523	7.54
10) C	1,3-butadiene	0.520	0.488	0.471	0.452	0.451	0.439	0.404	0.373	0.450	10.30
11)	butane	0.953	0.826	0.814	0.742	0.739	0.755	0.689	0.642	0.770	12.37
12) C	acetaldehyde		0.383	0.378	0.361	0.344	0.338	0.303	0.256	0.338	13.32
13) C	bromomethane	0.484	0.447	0.441	0.435	0.436	0.423	0.397	0.370	0.429	7.95
14) C	chloroethane	0.278	0.252	0.247	0.241	0.240	0.235	0.223	0.215	0.241	7.91
15)	ethanol			0.555	0.415	0.439	0.425	0.387	0.347	0.428	16.44
16)	dichlorofluoro...	1.024	0.939	0.918	0.835	0.836	0.865	0.800	0.738	0.869	10.23
17) C	vinyl bromide	0.454	0.431	0.419	0.417	0.414	0.412	0.388	0.360	0.412	6.82
18) C	acrolein		0.319	0.243	0.235	0.233	0.249	0.236	0.226	0.249	12.72
19)	acetone	0.763	0.691	0.684	0.580	0.576	0.579	0.527	0.470	0.609	15.83
20) C	acetonitrile	0.495	0.461	0.438	0.396	0.404	0.427	0.401	0.378	0.425	9.08
21)	trichlorofluor...	0.830	0.780	0.777	0.763	0.761	0.747	0.692	0.650	0.750	7.42
22)	isopropyl alcohol	0.896	0.826	0.807	0.794	0.799	0.803	0.736	0.668	0.791	8.38
23) C	acrylonitrile	0.559	0.488	0.465	0.429	0.440	0.463	0.436	0.414	0.462	9.92
24)	pentane	0.983	1.002	0.969	0.874	0.869	0.916	0.843	0.824	0.910	7.45
25)	ethyl ether	1.071	0.985	0.951	0.876	0.870	0.937	0.982	0.952	0.953	6.75
26) C	1,1-dichloroet...	0.756	0.688	0.687	0.686	0.680	0.681	0.632	0.602	0.676	6.66
27)	tertiary butyl...		0.985	0.965	0.899	0.901	0.940	0.895	0.860	0.921	4.79
28) C	methylene chlo...		0.681	0.673	0.642	0.636	0.739	0.682	0.640	0.670	5.41
29) C	3-chloropropene	0.882	0.812	0.745	0.737	0.747	0.743	0.688	0.636	0.749	9.89
30) C	carbon disulfide	1.832	1.689	1.701	1.707	1.736	1.723	1.564	1.396	1.668	7.93
31)	Freon 113	1.103	0.999	1.002	1.007	0.990	0.968	0.887	0.815	0.971	8.92

Response Factor Report

Method Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Method File : TFS17_240107.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Mon Jan 08 15:04:29 2024
Response Via : Initial Calibration

Calibration Files

0.2 =r1737676.D 0.5 =r1737677.D 1.0 =r1737678.D 5.0 =r1737679.D 10 =r1737680.D 20 =r1737681.D
50 =r1737682.D 100 =r1737683.D

Compound		0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
32)	trans-1,2-dich...	0.751	0.739	0.724	0.710	0.715	0.710	0.660	0.621	0.704	6.09
33) C	1,1-dichloroet...	0.986	0.924	0.910	0.905	0.905	0.888	0.825	0.766	0.889	7.47
34) C	MTBE	1.456	1.376	1.347	1.326	1.321	1.316	1.234	1.130	1.313	7.36
35) C	vinyl acetate		1.286	1.208	1.236	1.265	1.178	1.077	1.208		6.21
36) C	2-butanone	1.293	1.295	1.227	1.241	1.231	1.213	1.057	1.222		6.52
37)	cis-1,2-dichlo...	0.727	0.676	0.681	0.675	0.675	0.664	0.616	0.582	0.662	6.68
38)	Ethyl Acetate	0.172	0.170	0.174	0.172	0.172	0.172	0.167	0.160	0.170	2.61
39) C	chloroform	1.061	0.974	0.964	0.961	0.950	0.935	0.867	0.806	0.940	8.07
40)	Tetrahydrofuran	0.729	0.699	0.713	0.703	0.713	0.709	0.665	0.616	0.693	5.20
41)	2,2-dichloropr...	0.826	0.765	0.756	0.720	0.721	0.752	0.699	0.651	0.736	7.01
42) C	1,2-dichloroet...	0.655	0.584	0.548	0.527	0.528	0.514	0.478	0.450	0.536	11.81
43) I	1,4-difluorobenzene	-----ISTD-----									
44) C	hexane	0.375	0.344	0.336	0.327	0.325	0.329	0.312	0.299	0.331	6.79
45)	diisopropyl ether	0.194	0.182	0.173	0.165	0.166	0.175	0.170	0.167	0.174	5.63
46)	tert-butyl eth...	0.626	0.592	0.596	0.558	0.558	0.592	0.567	0.554	0.580	4.39
47) s	1,2-dichloroet...	0.311	0.308	0.312	0.309	0.304	0.300	0.298	0.298	0.305	1.89
48) C	1,1,1-trichlor...	0.315	0.283	0.283	0.284	0.286	0.284	0.293	0.277	0.288	4.09
49)	1,1-dichloropr...	0.353	0.317	0.322	0.302	0.304	0.320	0.300	0.282	0.312	6.71
50) C	benzene	0.827	0.760	0.759	0.750	0.751	0.737	0.693	0.651	0.741	6.95
51)	thiophene	0.605	0.570	0.551	0.486	0.486	0.559	0.532	0.512	0.538	7.76
52) C	carbon tetrach...	0.283	0.267	0.259	0.272	0.280	0.281	0.269	0.258	0.271	3.54
53)	cyclohexane	0.399	0.362	0.355	0.349	0.348	0.352	0.335	0.331	0.354	5.91
54)	tert-amyl meth...	0.638	0.604	0.591	0.564	0.567	0.600	0.566	0.540	0.584	5.24
55)	dibromomethane	0.221	0.208	0.199	0.190	0.191	0.202	0.190	0.184	0.198	6.04
56) C	1,2-dichloropr...	0.238	0.229	0.230	0.232	0.233	0.231	0.218	0.210	0.228	3.91
57)	bromodichlorom...	0.365	0.334	0.334	0.348	0.356	0.361	0.348	0.335	0.348	3.56
58) C	1,4-dioxane	0.149	0.140	0.139	0.143	0.144	0.147	0.141	0.139	0.143	2.61
59) C	trichloroethene	0.297	0.286	0.283	0.287	0.286	0.284	0.271	0.263	0.282	3.70
60) C	2,2,4-trimethy...	1.310	1.222	1.206	1.042	1.041	1.041	0.985	0.943	1.099	11.83
61)	methyl methacr...		0.243	0.243	0.247	0.253	0.258	0.249	0.238	0.247	2.76
62)	heptane	0.513	0.480	0.476	0.474	0.472	0.471	0.436	0.404	0.466	6.96

Response Factor Report

Method Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Method File : TFS17_240107.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Mon Jan 08 15:04:29 2024
Response Via : Initial Calibration

Calibration Files

0.2 =r1737676.D 0.5 =r1737677.D 1.0 =r1737678.D 5.0 =r1737679.D 10 =r1737680.D 20 =r1737681.D
50 =r1737682.D 100 =r1737683.D

	Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
63)	C cis-1,3-dichlo...	0.388	0.362	0.364	0.379	0.384	0.382	0.365	0.345	0.371	3.95
64)	C 4-methyl-2-pen...		0.578	0.554	0.565	0.570	0.571	0.533	0.496	0.552	5.23
65)	trans-1,3-dich...	0.285	0.278	0.272	0.298	0.305	0.306	0.294	0.283	0.290	4.28
66)	C 1,1,2-trichlor...	0.265	0.264	0.257	0.259	0.259	0.254	0.238	0.229	0.253	5.08
67)	I chlorobenzene-D5	-----ISTD-----									
68)	C toluene	6.095	5.683	5.705	5.569	5.598	5.545	5.080	4.706	5.498	7.69
69)	s toluene-D8	7.594	7.365	7.714	7.475	7.396	7.424	7.240	7.105	7.414	2.57
70)	2-methylthiophene	6.163	5.693	5.765	4.877	4.896	5.649	5.120	4.681	5.356	9.90
71)	1,3-dichloropr...	3.042	2.844	2.882	2.707	2.696	2.864	2.644	2.405	2.760	6.97
72)	2-hexanone	3.334	3.301	3.441	3.787	3.854	3.958	3.611	3.241	3.566	7.74
73)	3-methylthiophene	6.028	5.564	5.642	4.809	4.789	5.570	5.049	4.621	5.259	9.65
74)	dibromochlorom...	2.158	2.137	2.249	2.350	2.462	2.562	2.387	2.264	2.321	6.34
75)	C 1,2-dibromoethane	3.014	2.857	2.900	2.936	2.918	2.903	2.653	2.425	2.826	6.81
76)	butyl acetate		0.590	0.618	0.633	0.651	0.694	0.651	0.606	0.635	5.42
77)	octane	2.232	2.079	2.070	1.909	1.907	2.042	1.922	1.806	1.996	6.76
78)	C tetrachloroethene	2.453	2.269	2.226	2.222	2.233	2.215	2.054	1.889	2.195	7.48
79)	1,1,1,2-tetrac...	1.970	1.895	1.943	1.867	1.895	2.031	1.888	1.759	1.906	4.20
80)	C chlorobenzene	5.323	4.891	4.868	4.852	4.831	4.765	4.366	3.881	4.722	9.04
81)	C ethylbenzene	7.405	7.057	7.090	7.142	7.197	7.061	6.510	5.951	6.927	6.76
82)	2-ethylthiophene	6.479	6.023	6.278	5.453	5.515	6.298	5.648	5.123	5.852	8.29
83)	C m+p-xylene	6.077	5.544	5.714	5.642	5.696	5.551	5.068	4.613	5.488	8.19
84)	C bromoform	1.544	1.506	1.606	1.827	1.950	2.068	1.977	1.879	1.794	11.96
85)	C styrene	4.860	4.631	4.680	4.846	4.954	4.838	4.409	3.935	4.644	7.19
86)	C 1,1,2,2-tetrac...	4.430	4.256	4.279	4.265	4.275	4.239	3.916	3.446	4.138	7.60
87)	C o-xylene	6.004	5.639	5.762	5.678	5.683	5.565	5.068	4.540	5.492	8.48
88)	1,2,3-trichlor...	3.638	3.461	3.464	3.194	3.198	3.396	3.166	2.894	3.301	7.06
89)	nonane	5.953	5.674	5.693	5.243	5.202	5.356	4.726	4.066	5.239	11.54
90)	s bromofluoroben...	4.465	4.405	4.746	4.618	4.573	4.626	4.422	4.467	4.540	2.63
91)	C isopropylbenzene	8.398	7.778	7.897	7.290	7.167	7.540	6.770	5.940	7.347	10.26
92)	bromobenzene	4.724	4.446	4.502	4.135	4.125	4.376	4.046	3.649	4.250	7.82
93)	2-chlorotoluene	2.323	2.149	2.251	2.067	2.088	2.215	2.079	1.945	2.139	5.62

Response Factor Report

Method Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Method File : TFS17_240107.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Mon Jan 08 15:04:29 2024
Response Via : Initial Calibration

Calibration Files

0.2 =r1737676.D 0.5 =r1737677.D 1.0 =r1737678.D 5.0 =r1737679.D 10 =r1737680.D 20 =r1737681.D
50 =r1737682.D 100 =r1737683.D

	Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
94)	n-propylbenzene	2.485	2.362	2.431	2.237	2.252	2.424	2.310	2.157	2.332	4.84
95)	4-chlorotoluene	2.165	2.055	2.052	1.995	2.023	2.133	2.032	1.911	2.046	3.85
96)	4-ethyl toluene	8.309	7.851	8.037	7.791	7.719	7.724	6.997	6.139	7.571	9.09
97)	1,3,5-trimethy...	7.379	6.716	6.961	6.848	6.703	6.533	5.878	5.213	6.529	10.41
98)	tert-butylbenzene	7.354	6.842	6.966	6.389	6.384	6.646	6.048	5.150	6.472	10.33
99)	1,2,4-trimethy...	7.235	6.906	6.906	6.793	6.770	6.527	5.837	5.004	6.497	11.20
100)	decane	5.412	5.109	5.185	4.800	4.807	5.073	4.740	4.349	4.934	6.66
101) C	Benzyl Chloride	2.903	2.963	3.171	3.499	3.834	4.269	4.245	4.041	3.616	15.50
102)	1,3-dichlorobe...	4.141	3.825	3.987	4.000	4.100	4.026	3.752	3.422	3.907	6.02
103) C	1,4-dichlorobe...	3.780	3.706	3.836	3.940	4.071	3.952	3.737	3.412	3.804	5.27
104)	sec-butylbenzene	1.039	0.996	1.012	0.907	0.898	0.933	0.849	0.733	0.921	10.81
105)	1,2,3-trimethy...	6.846	6.332	6.483	6.182	6.103	6.012	5.418	4.627	6.000	11.49
106)	p-isopropyltol...	9.067	8.440	8.470	7.656	7.689	7.974	7.241	6.128	7.833	11.44
107)	1,2-dichlorobe...	4.029	3.741	3.822	3.729	3.857	3.802	3.529	3.286	3.724	6.06
108)	n-butylbenzene	7.179	6.990	7.154	6.525	6.532	6.933	6.494	5.932	6.717	6.32
109)	indan	6.772	6.557	6.667	6.329	6.276	6.357	5.905	5.324	6.273	7.45
110)	indene	4.256	4.171	4.290	4.094	4.166	4.333	4.139	3.850	4.162	3.60
111) C	1,2-dibromo-3-...	1.372	1.421	1.538	1.464	1.544	1.729	1.703	1.557	1.541	8.17
112)	undecane	5.546	5.368	5.544	5.133	5.151	5.477	5.143	4.777	5.267	5.06
113)	1,2,4,5-tetram...	0.685	0.653	0.657	0.634	0.654	0.663	0.649	0.632	0.653	2.55
114)	dodecane	4.878	5.061	5.229	4.908	5.126	5.401	5.161	4.753	5.065	4.15
115) C	1,2,4-trichlor...	1.964	2.163	2.331	2.479	2.743	2.662	2.751	2.657	2.469	11.81
116)	naphthalene	6.483	6.456	7.164	6.088	6.591	7.391	7.578	7.123	6.859	7.66
117)	1,2,3-trichlor...	1.934	2.071	2.176	1.849	2.077	2.307	2.444	2.341	2.150	9.57
118)	benzothiophene	1.009	1.158	1.350	1.163	1.358	1.463	1.516	1.232	1.281	13.33
119) C	hexachlorobuta...	2.370	2.418	2.481	2.466	2.551	2.361	2.270	2.131	2.381	5.56
120)	2-methylnaphth...			1.837	1.564	2.066	2.392	2.862	2.894	2.269	24.00
121)	1-methylnaphth...			2.612	2.391	2.985	2.928	3.417	3.419	2.959	14.07

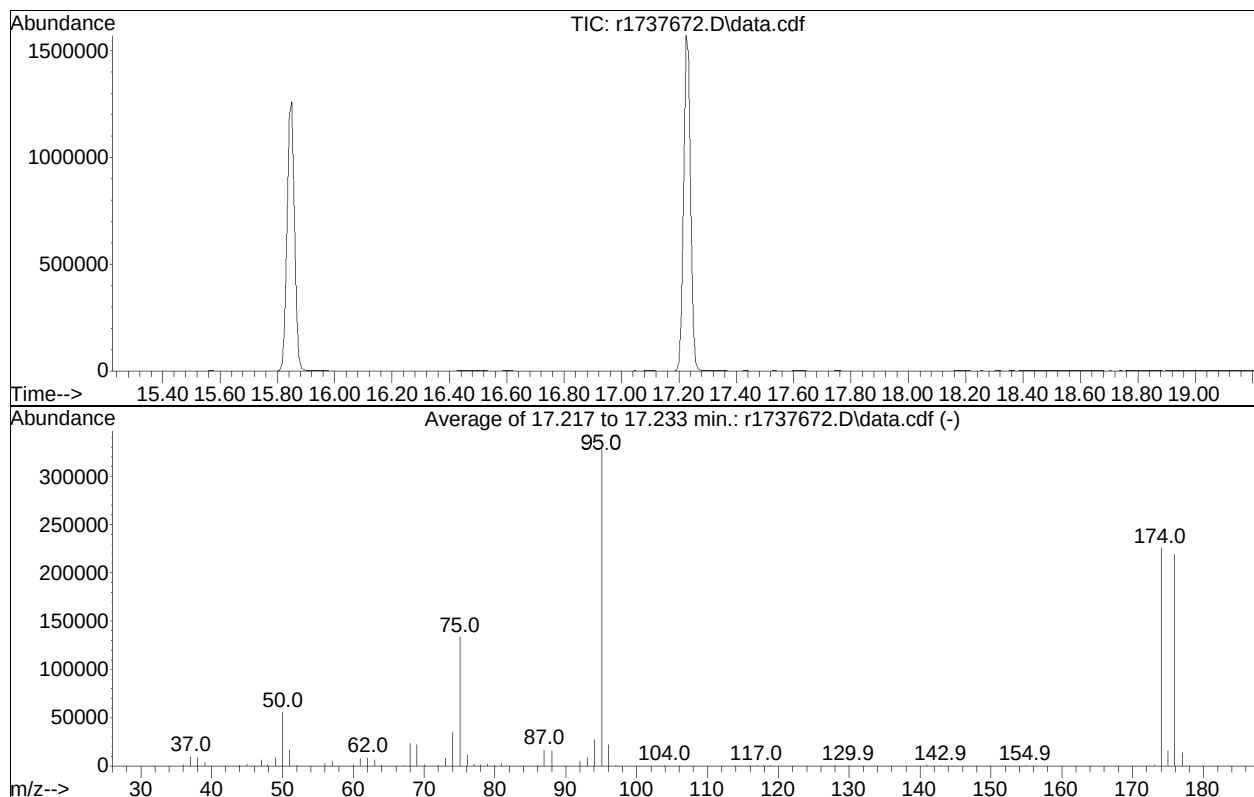
(#) = Out of Range

BFB

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737672.D
Acq On : 7 Jan 2024 7:44 PM
Operator : AIRLAB17:RAY
Sample : WG1872080-1,3,250,250
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Title : T0-14A/T0-15 SIM/Full Scan Analysis
Last Update : Mon Jan 08 15:04:29 2024



Spectrum Information: Average of 17.217 to 17.233 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.8	55512	PASS
75	95	30	66	40.4	133582	PASS
95	95	100	100	100.0	330622	PASS
96	95	5	9	6.7	22066	PASS
173	174	0.00	2	0.6	1325	PASS
174	95	50	120	68.5	226367	PASS
175	174	4	9	7.0	15800	PASS
176	174	93	101	96.7	218996	PASS
177	176	5	9	6.5	14291	PASS

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737676.D
 Acq On : 7 Jan 2024 10:14 PM
 Operator : AIRLAB17:RAY
 Sample : IT015-SIMSTD0.2
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:17 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	8.842	49	410424	10.000	ppbV	0.00
Standard Area = 426000			Recovery =		96.34%	
43) 1,4-difluorobenzene	11.077	114	1091972	10.000	ppbV	0.00
Standard Area = 1124227			Recovery =		97.13%	
67) chlorobenzene-D5	15.842	54	148519	10.000	ppbV	0.00
Standard Area = 154777			Recovery =		95.96%	
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.708	65	339963	10.242	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		102.42%	
69) toluene-D8	13.933	98	1127890	10.268	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		102.68%	
90) bromofluorobenzene	17.217	95	663170	9.765	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		97.65%	
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.772	51	7883	0.233	ppbV	99
3) propylene	3.802	41	8523M6	0.491	ppbV	
4) propane	3.826	29	7121	0.292	ppbV	97
5) dichlorodifluoromethane	3.868	85	9087	0.230	ppbV	99
6) chloromethane	4.024	50	4620	0.220	ppbV	97
7) Freon-114	4.126	85	10927	0.225	ppbV	99
8) methanol	4.180	31	14077	1.394	ppbV #	38
9) vinyl chloride	4.240	62	4834	0.223	ppbV	92
10) 1,3-butadiene	4.378	54	4269	0.230	ppbV	90
11) butane	4.432	43	7823	0.258	ppbV #	90
12) acetaldehyde	4.144	29	18030	1.277	ppbV #	75
13) bromomethane	4.642	94	3975	0.222	ppbV	99
14) chloroethane	4.822	64	2282	0.231	ppbV	90
15) ethanol	4.942	31	29001	1.609	ppbV	98
16) dichlorofluoromethane	4.930	67	8402	0.245	ppbV	95
17) vinyl bromide	5.187	106	3728	0.219	ppbV	94
18) acrolein	5.310	56	2565	0.268	ppbV #	31
19) acetone	5.453	43	31327	1.324	ppbV #	97
20) acetonitrile	5.170	41	4062	0.245	ppbV #	78
21) trichlorofluoromethane	5.637	101	6814	0.218	ppbV	97
22) isopropyl alcohol	5.717	45	18392	0.561	ppbV	98
23) acrylonitrile	5.950	53	4590	0.254	ppbV	88
24) pentane	6.023	43	8068	0.226	ppbV #	94

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737676.D
 Acq On : 7 Jan 2024 10:14 PM
 Operator : AIRLAB17:RAY
 Sample : IT015-SIMSTD0.2
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:17 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.057	31	8793	0.246	ppbV	98
26) 1,1-dichloroethene	6.312	61	6204	0.222	ppbV	98
27) tertiary butyl alcohol	6.378	59	8474	0.229	ppbV #	70
28) methylene chloride	6.456	49	7391	0.283	ppbV	95
29) 3-chloropropene	6.582	41	7236	0.236	ppbV	93
30) carbon disulfide	6.750	76	15037	0.211	ppbV #	14
31) Freon 113	6.750	101	9058	0.223	ppbV	98
32) trans-1,2-dichloroethene	7.492	61	6168	0.210	ppbV	93
33) 1,1-dichloroethane	7.717	63	8093	0.218	ppbV	89
34) MTBE	7.800	73	11949	0.220	ppbV #	89
35) vinyl acetate	7.908	43	11293	0.223	ppbV	98
36) 2-butanone	8.175	43	11383	0.223	ppbV	100
37) cis-1,2-dichloroethene	8.658	61	5968	0.215	ppbV	93
38) Ethyl Acetate	8.950	61	1413	0.200	ppbV #	13
39) chloroform	8.992	83	8712	0.223	ppbV	100
40) Tetrahydrofuran	9.450	42	5984	0.205	ppbV	97
41) 2,2-dichloropropane	9.017	77	6782	0.229	ppbV	93
42) 1,2-dichloroethane	9.825	62	5378	0.248	ppbV #	94
44) hexane	8.917	57	8186	0.230	ppbV #	53
45) diisopropyl ether	8.925	87	4240	0.234	ppbV	86
46) tert-butyl ethyl ether	9.542	59	13674	0.224	ppbV	98
48) 1,1,1-trichloroethane	10.117	97	6883	0.220	ppbV	97
49) 1,1-dichloropropene	10.483	75	7704	0.232	ppbV	92
50) benzene	10.643	78	18054	0.220	ppbV	98
51) thiophene	10.790	84	13206	0.249	ppbV	96
52) carbon tetrachloride	10.817	117	6174	0.202	ppbV	93
53) cyclohexane	10.963	56	8713	0.229	ppbV	91
54) tert-amyl methyl ether	11.363	73	13927	0.225	ppbV	98
55) dibromomethane	11.563	93	4820	0.231	ppbV	98
56) 1,2-dichloropropane	11.597	63	5193	0.204	ppbV #	93
57) bromodichloromethane	11.823	83	7968	0.205	ppbV	98
58) 1,4-dioxane	11.883	88	3247	0.206	ppbV	98
59) trichloroethene	11.877	130	6478	0.207	ppbV	94
60) 2,2,4-trimethylpentane	11.937	57	28608	0.252	ppbV	99
61) methyl methacrylate	12.137	41	5998	0.217	ppbV	95
62) heptane	12.257	43	11202	0.217	ppbV	100
63) cis-1,3-dichloropropene	12.900	75	8477	0.202	ppbV	94
64) 4-methyl-2-pentanone	12.958	43	13758	0.221	ppbV	98
65) trans-1,3-dichloropropene	13.525	75	6227	0.187	ppbV	93
66) 1,1,2-trichloroethane	13.725	97	5787	0.205	ppbV	95

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737676.D
 Acq On : 7 Jan 2024 10:14 PM
 Operator : AIRLAB17:RAY
 Sample : IT015-SIMSTD0.2
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:17 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.050	91	18104	0.218	ppbV	97
70) 2-methylthiophene	14.117	97	18306	0.252	ppbV	98
71) 1,3-dichloropropane	14.075	76	9037	0.226	ppbV	99
72) 2-hexanone	14.375	43	9904	0.173	ppbV	96
73) 3-methylthiophene	14.317	97	17905	0.252	ppbV	96
74) dibromochloromethane	14.500	129	6411	0.175	ppbV	94
75) 1,2-dibromoethane	14.758	107	8954	0.207	ppbV	99
76) butyl acetate	15.042	73	1813	0.187	ppbV	90
77) octane	15.108	85	6630	0.234	ppbV #	100
78) tetrachloroethene	15.225	166	7286	0.220	ppbV	95
79) 1,1,1,2-tetrachloroethane	15.867	131	5853	0.208	ppbV	96
80) chlorobenzene	15.875	112	15810	0.220	ppbV	99
81) ethylbenzene	16.233	91	21996	0.206	ppbV	97
82) 2-ethylthiophene	16.275	97	19245	0.235	ppbV	98
83) m+p-xylene	16.400	91	36103	0.427	ppbV	95
84) bromoform	16.458	173	4586	0.158	ppbV	93
85) styrene	16.725	104	14435	0.196	ppbV	99
86) 1,1,2,2-tetrachloroethane	16.817	83	13159	0.207	ppbV	99
87) o-xylene	16.817	91	17833	0.211	ppbV	96
88) 1,2,3-trichloropropane	16.933	75	10805	0.228	ppbV	97
89) nonane	17.033	43	17684	0.229	ppbV	100
91) isopropylbenzene	17.342	105	24944	0.234	ppbV	94
92) bromobenzene	17.408	77	14033	0.229	ppbV	94
93) 2-chlorotoluene	17.750	126	6900	0.223	ppbV	92
94) n-propylbenzene	17.775	120	7381	0.221	ppbV	87
95) 4-chlorotoluene	17.808	126	6430	0.214	ppbV	91
96) 4-ethyl toluene	17.900	105	24681	0.215	ppbV	98
97) 1,3,5-trimethylbenzene	17.967	105	21917	0.220	ppbV	96
98) tert-butylbenzene	18.308	119	21845	0.230	ppbV	97
99) 1,2,4-trimethylbenzene	18.308	105	21492	0.214	ppbV	95
100) decane	18.408	57	16077	0.225	ppbV	95
101) Benzyl Chloride	18.433	91	8624	0.151	ppbV	94
102) 1,3-dichlorobenzene	18.442	146	12301	0.202	ppbV	96
103) 1,4-dichlorobenzene	18.500	146	11227	0.186	ppbV	98
104) sec-butylbenzene	18.542	105	30866	0.231	ppbV	100
105) 1,2,3-trimethylbenzene	18.667	105	20336	0.224	ppbV	98
106) p-isopropyltoluene	18.675	119	26933	0.236	ppbV	99
107) 1,2-dichlorobenzene	18.792	146	11967	0.209	ppbV	97
108) n-butylbenzene	19.042	91	21325	0.220	ppbV	94
109) indan	18.842	117	20115	0.216	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737676.D
 Acq On : 7 Jan 2024 10:14 PM
 Operator : AIRLAB17:RAY
 Sample : IT015-SIMSTD0.2
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:17 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

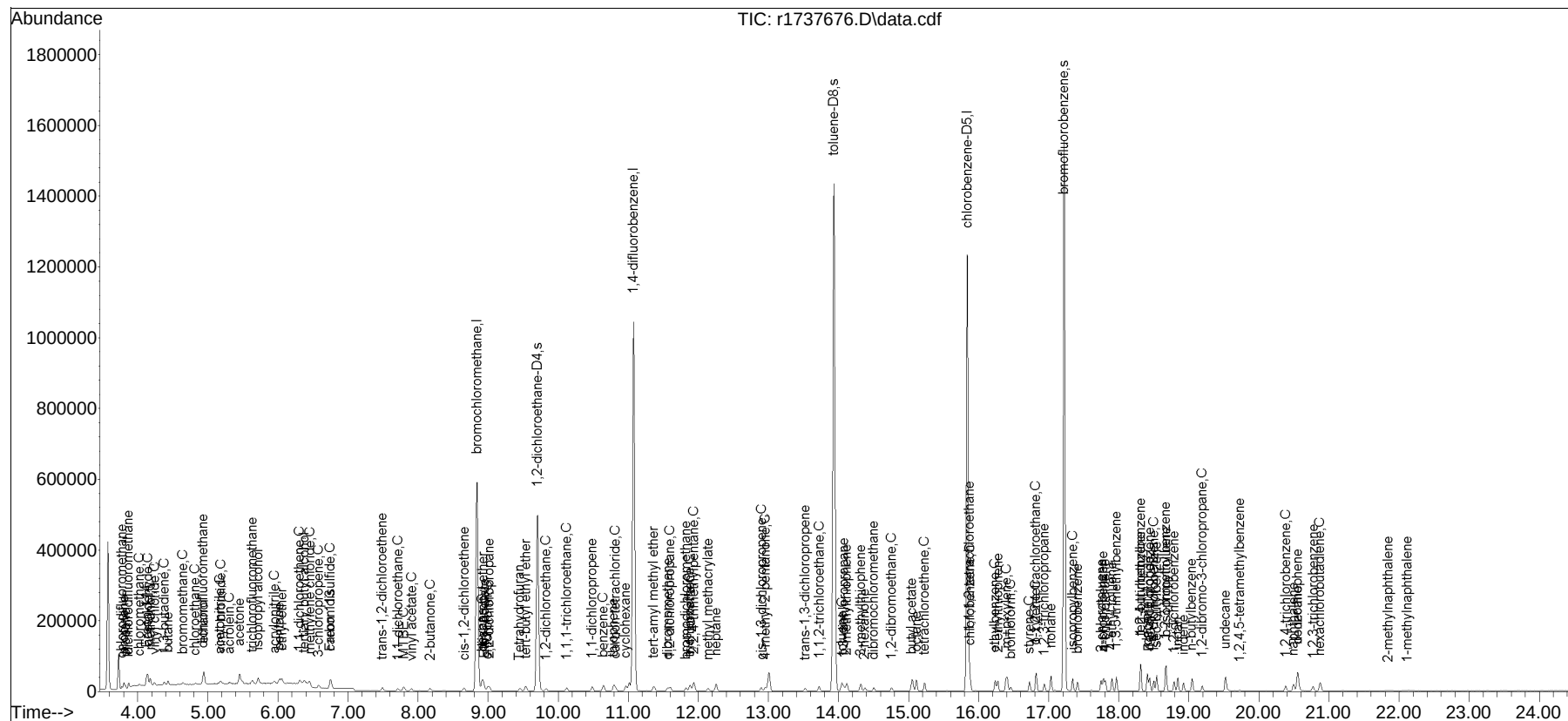
CCAL FILE : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110)	indene	18.925	115	12642	0.204	ppbV	98
111)	1,2-dibromo-3-chloropr...	19.192	75	4074	0.178	ppbV	97
112)	undecane	19.525	57	16475	0.215	ppbV	95
113)	1,2,4,5-tetramethylben...	19.725	119	2034	0.210	ppbV	98
114)	dodecane	20.550	57	14490	0.190	ppbV	98
115)	1,2,4-trichlorobenzene	20.383	180	5835	0.143	ppbV	94
116)	naphthalene	20.492	128	19257	0.197	ppbV	99
117)	1,2,3-trichlorobenzene	20.775	180	5746	0.186	ppbV	92
118)	benzothiophene	20.550	134	29982	0.149	ppbV	99
119)	hexachlorobutadiene	20.867	225	7040	0.186	ppbV	94
120)	2-methylnaphthalene	21.842	142	2786M4	0.091	ppbV	
121)	1-methylnaphthalene	22.117	142	4785M4	0.108	ppbV	

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

```
Data Path   : 0:\Forensics\Data\AirLab17\2024\01\0107T_I\
Data File  : r1737676.D
Acq On     : 7 Jan 2024 10:14 PM
Operator   : AIRLAB17:RAY
Sample     : IT015-SIMSTD0.2
Misc       : WG1872080
ALS Vial   : 0 Sample Multiplier: 1
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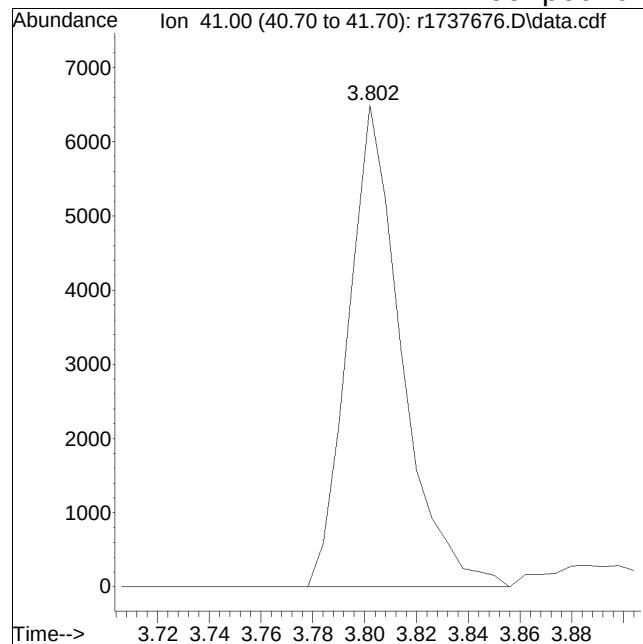
Quant Time: Jan 08 14:48:17 2024
Quant Method : 0:\Forensics\Data\AirLab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration



Manual Integration Report

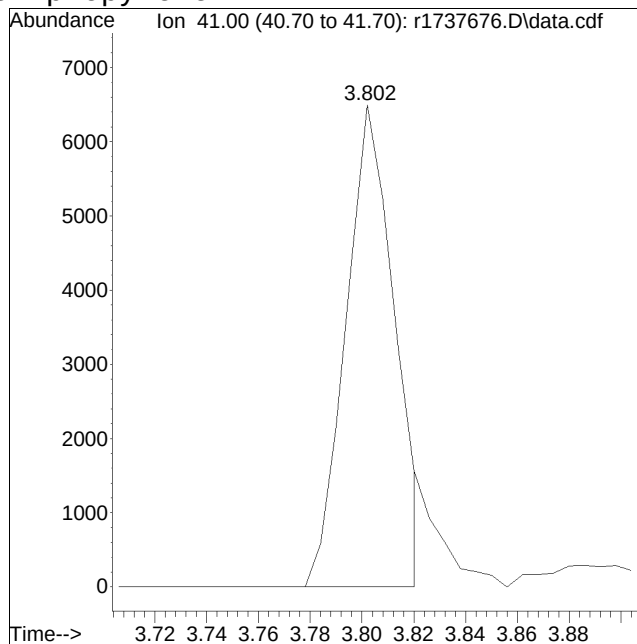
Data Path : 0:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1737676.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:0: 4 Instrument :
Sample : IT015-SIMSTD0.2 Quant Date : 1/8/2024 2:48 pm

Compound #3: propylene



Original Peak Response = 9293

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

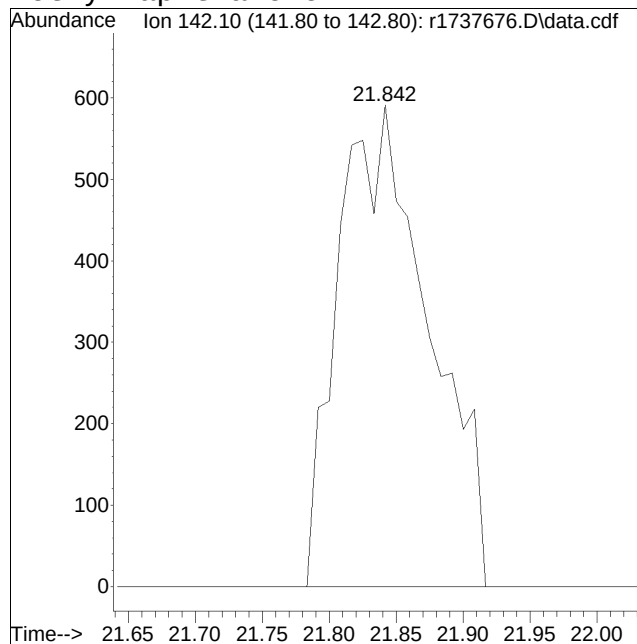
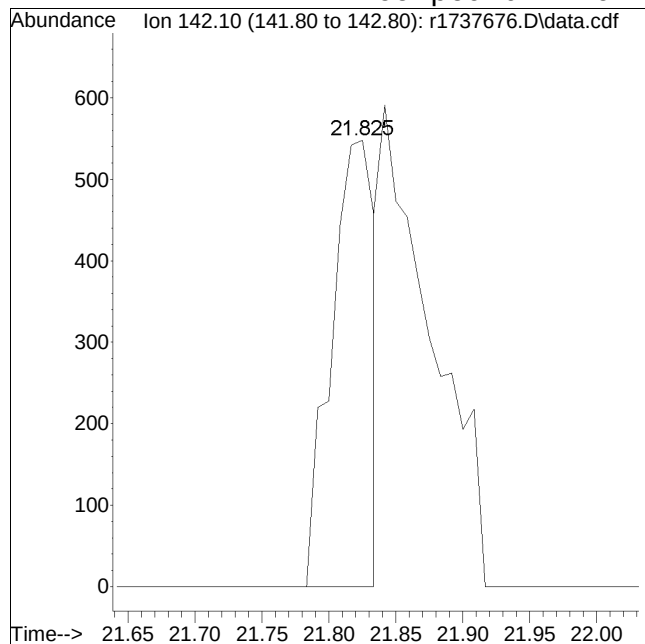


Manual Peak Response = 8523 M6

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1737676.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:0: 4 Instrument :
Sample : IT015-SIMSTD0.2 Quant Date : 1/8/2024 2:48 pm

Compound #120: 2-methylnaphthalene



Original Peak Response = 1220

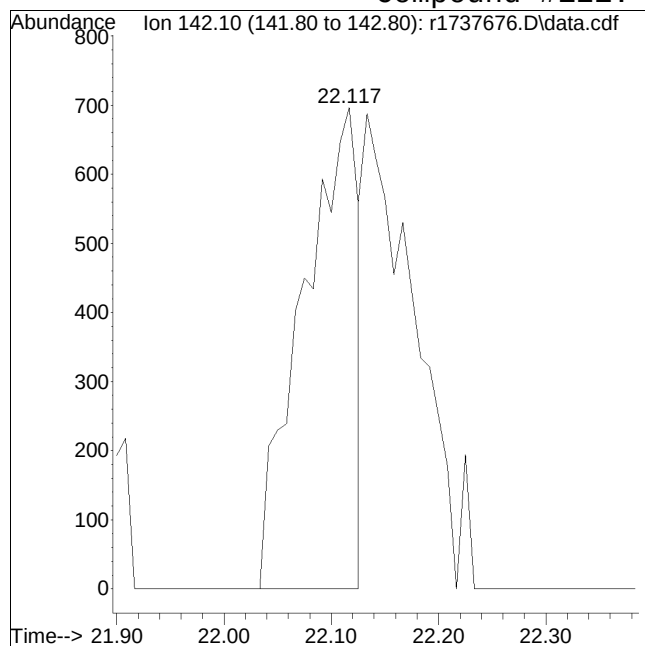
Manual Peak Response = 2786 M4

M4 = Poor automated baseline construction.

Manual Integration Report

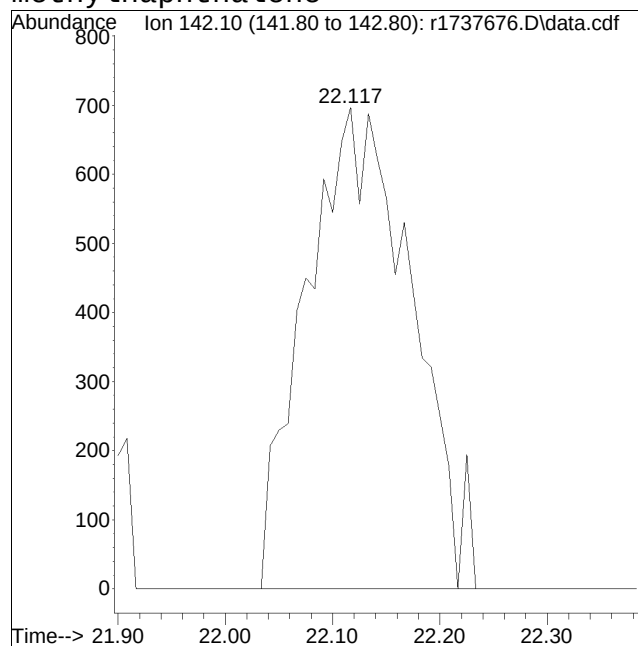
Data Path : 0:\Forensics\Data\Airlab170Method : TFS17_240107.M
Data File : r1737676.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:0: 4 Instrument :
Sample : IT015-SIMSTD0.2 Quant Date : 1/8/2024 2:48 pm

Compound #121: 1-methylnaphthalene



Original Peak Response = 2501

M4 = Poor automated baseline construction.



Manual Peak Response = 4785 M4

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737677.D
 Acq On : 7 Jan 2024 10:54 PM
 Operator : AIRLAB17:RAY
 Sample : IT015-SIMSTD0.5
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:29 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	8.842	49	422548	10.000	ppbV	0.00
Standard Area = 426000			Recovery =	99.19%		
43) 1,4-difluorobenzene	11.077	114	1125652	10.000	ppbV	0.00
Standard Area = 1124227			Recovery =	100.13%		
67) chlorobenzene-D5	15.833	54	154324	10.000	ppbV	0.00
Standard Area = 154777			Recovery =	99.71%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.700	65	346469	10.126	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.26%		
69) toluene-D8	13.933	98	1136631	9.959	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.59%		
90) bromofluorobenzene	17.217	95	679787	9.633	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.33%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.772	51	19291	0.553	ppbV	96
3) propylene	3.802	41	14628M6	0.818	ppbV	
4) propane	3.826	29	14802	0.589	ppbV	98
5) dichlorodifluoromethane	3.868	85	20862	0.512	ppbV	99
6) chloromethane	4.024	50	11191	0.517	ppbV	96
7) Freon-114	4.126	85	26050	0.522	ppbV	96
8) methanol	4.174	31	31958	3.074	ppbV #	73
9) vinyl chloride	4.240	62	11616	0.521	ppbV	99
10) 1,3-butadiene	4.378	54	10316	0.541	ppbV	98
11) butane	4.432	43	17450	0.559	ppbV	97
12) acetaldehyde	4.144	29	40487	2.785	ppbV #	86
13) bromomethane	4.642	94	9451	0.514	ppbV	95
14) chloroethane	4.822	64	5322	0.524	ppbV	94
15) ethanol	4.942	31	58598	3.158	ppbV	97
16) dichlorofluoromethane	4.930	67	19846	0.562	ppbV	99
17) vinyl bromide	5.187	106	9098	0.520	ppbV	97
18) acrolein	5.310	56	6731	0.684	ppbV #	69
19) acetone	5.447	43	73027	2.999	ppbV #	99
20) acetonitrile	5.170	41	9748	0.572	ppbV	93
21) trichlorofluoromethane	5.637	101	16469	0.512	ppbV	99
22) isopropyl alcohol	5.710	45	43613	1.292	ppbV	99
23) acrylonitrile	5.943	53	10313	0.554	ppbV	92
24) pentane	6.023	43	21162	0.576	ppbV #	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737677.D
 Acq On : 7 Jan 2024 10:54 PM
 Operator : AIRLAB17:RAY
 Sample : IT015-SIMSTD0.5
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:29 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.050	31	20802	0.566	ppbV	96
26) 1,1-dichloroethene	6.312	61	14527	0.506	ppbV	97
27) tertiary butyl alcohol	6.366	59	20815	0.547	ppbV #	86
28) methylene chloride	6.450	49	14387	0.535	ppbV	99
29) 3-chloropropene	6.582	41	17157	0.543	ppbV	96
30) carbon disulfide	6.750	76	35675	0.486	ppbV #	61
31) Freon 113	6.750	101	21101	0.505	ppbV	97
32) trans-1,2-dichloroethene	7.492	61	15608	0.516	ppbV	98
33) 1,1-dichloroethane	7.708	63	19530	0.510	ppbV	99
34) MTBE	7.792	73	29069	0.521	ppbV #	90
35) vinyl acetate	7.900	43	26662	0.511	ppbV	98
36) 2-butanone	8.167	43	27320	0.521	ppbV	97
37) cis-1,2-dichloroethene	8.658	61	14291	0.501	ppbV	95
38) Ethyl Acetate	8.942	61	3601	0.496	ppbV #	47
39) chloroform	8.992	83	20581	0.513	ppbV	98
40) Tetrahydrofuran	9.450	42	14770	0.490	ppbV	97
41) 2,2-dichloropropane	9.017	77	16169	0.530	ppbV	99
42) 1,2-dichloroethane	9.825	62	12336	0.553	ppbV	98
44) hexane	8.908	57	19368	0.529	ppbV #	53
45) diisopropyl ether	8.917	87	10223	0.547	ppbV	96
46) tert-butyl ethyl ether	9.533	59	33329	0.531	ppbV	97
48) 1,1,1-trichloroethane	10.117	97	15900	0.494	ppbV	92
49) 1,1-dichloropropene	10.483	75	17840	0.522	ppbV	100
50) benzene	10.643	78	42751	0.505	ppbV	100
51) thiophene	10.790	84	32100	0.586	ppbV	99
52) carbon tetrachloride	10.817	117	15046	0.477	ppbV	98
53) cyclohexane	10.963	56	20374	0.520	ppbV	97
54) tert-amyl methyl ether	11.357	73	34000	0.533	ppbV	97
55) dibromomethane	11.563	93	11690	0.544	ppbV	96
56) 1,2-dichloropropane	11.597	63	12898	0.493	ppbV	99
57) bromodichloromethane	11.823	83	18781	0.469	ppbV	99
58) 1,4-dioxane	11.877	88	7860	0.483	ppbV	93
59) trichloroethene	11.877	130	16091	0.500	ppbV	97
60) 2,2,4-trimethylpentane	11.930	57	68769	0.587	ppbV	98
61) methyl methacrylate	12.130	41	13698	0.482	ppbV	100
62) heptane	12.250	43	27021	0.509	ppbV	97
63) cis-1,3-dichloropropene	12.892	75	20382	0.471	ppbV	96
64) 4-methyl-2-pentanone	12.942	43	32512	0.507	ppbV	98
65) trans-1,3-dichloropropene	13.517	75	15654	0.456	ppbV	96
66) 1,1,2-trichloroethane	13.717	97	14844	0.509	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737677.D
 Acq On : 7 Jan 2024 10:54 PM
 Operator : AIRLAB17:RAY
 Sample : IT015-SIMSTD0.5
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:29 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.042	91	43849	0.508	ppbV	98
70) 2-methylthiophene	14.117	97	43927	0.581	ppbV	97
71) 1,3-dichloropropane	14.075	76	21943	0.527	ppbV	99
72) 2-hexanone	14.358	43	25475	0.428	ppbV	99
73) 3-methylthiophene	14.317	97	42936	0.581	ppbV	97
74) dibromochloromethane	14.500	129	16491	0.434	ppbV	98
75) 1,2-dibromoethane	14.758	107	22048	0.490	ppbV	98
76) butyl acetate	15.025	73	4553	0.453	ppbV	95
77) octane	15.108	85	16045	0.545	ppbV	94
78) tetrachloroethene	15.225	166	17510	0.508	ppbV	98
79) 1,1,1,2-tetrachloroethane	15.858	131	14621	0.500	ppbV	97
80) chlorobenzene	15.875	112	37742	0.506	ppbV	98
81) ethylbenzene	16.233	91	54452	0.490	ppbV	99
82) 2-ethylthiophene	16.267	97	46473	0.546	ppbV	98
83) m+p-xylene	16.400	91	85560	0.973	ppbV	98
84) bromoform	16.458	173	11617	0.386	ppbV	100
85) styrene	16.725	104	35734	0.467	ppbV	98
86) 1,1,2,2-tetrachloroethane	16.817	83	32839	0.498	ppbV	100
87) o-xylene	16.817	91	43514	0.496	ppbV	100
88) 1,2,3-trichloropropane	16.933	75	26705	0.541	ppbV	96
89) nonane	17.025	43	43785	0.545	ppbV	98
91) isopropylbenzene	17.342	105	60016	0.543	ppbV	100
92) bromobenzene	17.408	77	34305	0.539	ppbV	94
93) 2-chlorotoluene	17.742	126	16585	0.515	ppbV	94
94) n-propylbenzene	17.775	120	18222	0.524	ppbV	92
95) 4-chlorotoluene	17.800	126	15857	0.508	ppbV	87
96) 4-ethyl toluene	17.900	105	60577	0.509	ppbV	98
97) 1,3,5-trimethylbenzene	17.958	105	51825	0.501	ppbV	99
98) tert-butylbenzene	18.308	119	52796	0.536	ppbV	99
99) 1,2,4-trimethylbenzene	18.308	105	53290	0.510	ppbV	96
100) decane	18.400	57	39425	0.531	ppbV	99
101) Benzyl Chloride	18.425	91	22862	0.386	ppbV	99
102) 1,3-dichlorobenzene	18.442	146	29511	0.466	ppbV	97
103) 1,4-dichlorobenzene	18.492	146	28597	0.455	ppbV	95
104) sec-butylbenzene	18.533	105	76867	0.555	ppbV	99
105) 1,2,3-trimethylbenzene	18.667	105	48860	0.519	ppbV	99
106) p-isopropyltoluene	18.667	119	65121	0.549	ppbV	99
107) 1,2-dichlorobenzene	18.783	146	28864	0.485	ppbV	99
108) n-butylbenzene	19.042	91	53933	0.535	ppbV	100
109) indan	18.842	117	50597	0.522	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737677.D
 Acq On : 7 Jan 2024 10:54 PM
 Operator : AIRLAB17:RAY
 Sample : IT015-SIMSTD0.5
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:29 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

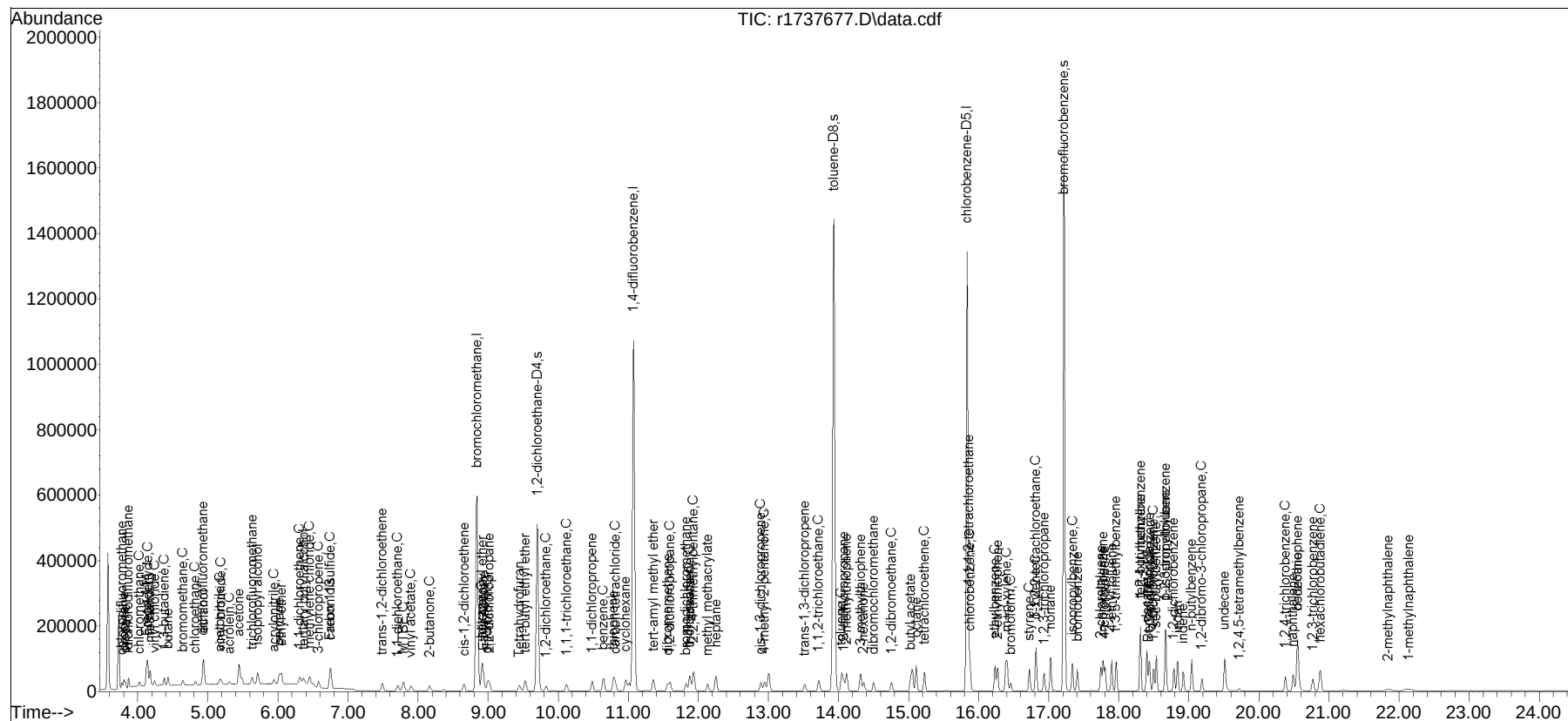
CCAL FILE : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
110)	indene	18.917	115	32183	0.501	ppbV		96
111)	1,2-dibromo-3-chloropr...	19.183	75	10968	0.460	ppbV #		89
112)	undecane	19.508	57	41417	0.521	ppbV		97
113)	1,2,4,5-tetramethylben...	19.717	119	5035	0.499	ppbV #		98
114)	dodecane	20.550	57	39050	0.494	ppbV		100
115)	1,2,4-trichlorobenzene	20.375	180	16687	0.394	ppbV		97
116)	naphthalene	20.483	128	49819	0.490	ppbV		98
117)	1,2,3-trichlorobenzene	20.767	180	15983	0.499	ppbV		97
118)	benzothiophene	20.550	134	89365	0.427	ppbV		99
119)	hexachlorobutadiene	20.875	225	18656	0.474	ppbV		97
120)	2-methylnaphthalene	21.842	142	11330	0.355	ppbV		99
121)	1-methylnaphthalene	22.142	142	17382	0.377	ppbV		93

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

```
Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737677.D
Acq On    : 7 Jan 2024 10:54 PM
Operator  : AIRLAB17:RAY
Sample    : IT015-SIMSTD0.5
Misc      : WG1872080
ALS Vial  : 0 Sample Multiplier: 1
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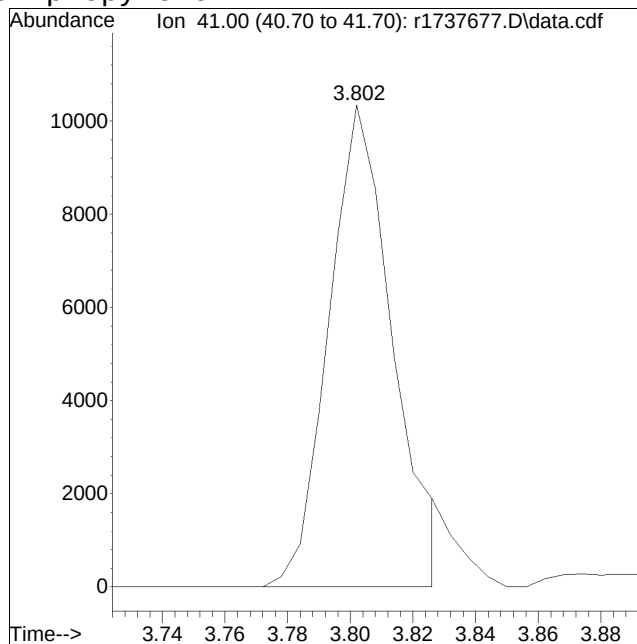
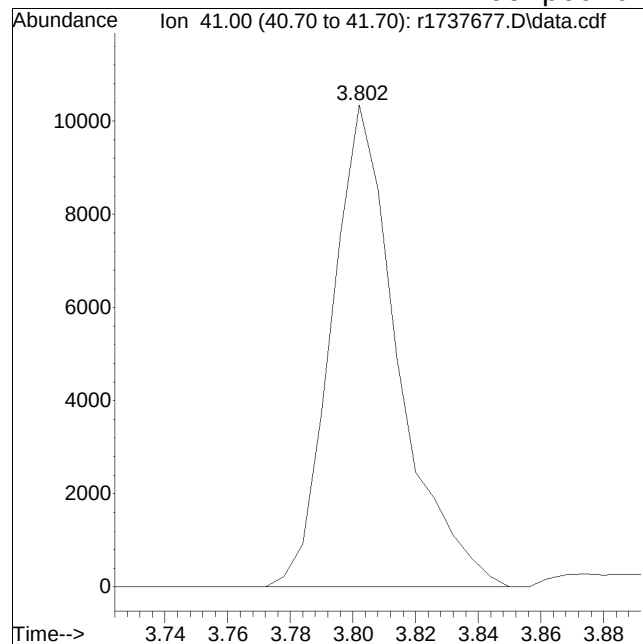
Quant Time: Jan 08 14:48:29 2024
Quant Method : 0:\Forensics\Data\AirLab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1737677.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:0: 4 Instrument :
Sample : IT015-SIMSTD0.5 Quant Date : 1/8/2024 2:48 pm

Compound #3: propylene



Original Peak Response = 15327

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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737678.D
 Acq On : 7 Jan 2024 11:36 PM
 Operator : AIRLAB17:RAY
 Sample : IT015-SIMSTD1.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:41 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	8.842	49	410085	10.000	ppbV	0.00
Standard Area = 426000			Recovery =		96.26%	
43) 1,4-difluorobenzene	11.077	114	1097920	10.000	ppbV	0.00
Standard Area = 1124227			Recovery =		97.66%	
67) chlorobenzene-D5	15.842	54	147437	10.000	ppbV	0.00
Standard Area = 154777			Recovery =		95.26%	
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.708	65	342180	10.253	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		102.53%	
69) toluene-D8	13.933	98	1137332	10.430	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		104.30%	
90) bromofluorobenzene	17.217	95	699727	10.379	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		103.79%	
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.772	51	36546	1.079	ppbV	100
3) propylene	3.802	41	23174M6	1.336	ppbV	
4) propane	3.826	29	28201	1.156	ppbV	100
5) dichlorodifluoromethane	3.868	85	40817	1.032	ppbV	98
6) chloromethane	4.024	50	21714	1.033	ppbV	100
7) Freon-114	4.126	85	50488	1.042	ppbV	98
8) methanol	4.174	31	58817	5.830	ppbV #	86
9) vinyl chloride	4.240	62	21734	1.003	ppbV	97
10) 1,3-butadiene	4.378	54	19329	1.044	ppbV	95
11) butane	4.432	43	33367	1.100	ppbV	96
12) acetaldehyde	4.138	29	77585	5.498	ppbV	95
13) bromomethane	4.642	94	18101	1.013	ppbV	97
14) chloroethane	4.822	64	10132	1.027	ppbV	100
15) ethanol	4.936	31	113815	6.321	ppbV	97
16) dichlorofluoromethane	4.930	67	37643	1.098	ppbV	99
17) vinyl bromide	5.190	106	17197	1.013	ppbV	92
18) acrolein	5.307	56	9952	1.042	ppbV #	85
19) acetone	5.443	43	140188	5.932	ppbV #	99
20) acetonitrile	5.167	41	17977	1.086	ppbV	97
21) trichlorofluoromethane	5.637	101	31867	1.021	ppbV	98
22) isopropyl alcohol	5.710	45	82754	2.526	ppbV	99
23) acrylonitrile	5.947	53	19070	1.056	ppbV	98
24) pentane	6.020	43	39744	1.116	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737678.D
 Acq On : 7 Jan 2024 11:36 PM
 Operator : AIRLAB17:RAY
 Sample : IT015-SIMSTD1.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:41 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.050	31	38993	1.093	ppbV	95
26) 1,1-dichloroethene	6.318	61	28165	1.010	ppbV	98
27) tertiary butyl alcohol	6.360	59	39587	1.071	ppbV #	95
28) methylene chloride	6.456	49	27598	1.058	ppbV	95
29) 3-chloropropene	6.582	41	30546	0.997	ppbV	99
30) carbon disulfide	6.750	76	69744	0.980	ppbV #	80
31) Freon 113	6.750	101	41097	1.013	ppbV	100
32) trans-1,2-dichloroethene	7.492	61	29707	1.013	ppbV	97
33) 1,1-dichloroethane	7.717	63	37335	1.005	ppbV	100
34) MTBE	7.783	73	55233	1.020	ppbV #	94
35) vinyl acetate	7.900	43	52737	1.041	ppbV	99
36) 2-butanone	8.158	43	53106	1.044	ppbV	99
37) cis-1,2-dichloroethene	8.658	61	27913	1.008	ppbV	97
38) Ethyl Acetate	8.933	61	7139	1.013	ppbV	98
39) chloroform	8.992	83	39526	1.015	ppbV	99
40) Tetrahydrofuran	9.442	42	29242	1.000	ppbV	99
41) 2,2-dichloropropane	9.017	77	31007	1.048	ppbV	99
42) 1,2-dichloroethane	9.825	62	22480	1.038	ppbV	98
44) hexane	8.917	57	36851	1.031	ppbV	83
45) diisopropyl ether	8.917	87	19042	1.045	ppbV	96
46) tert-butyl ethyl ether	9.533	59	65463	1.069	ppbV	97
48) 1,1,1-trichloroethane	10.117	97	31069	0.989	ppbV	100
49) 1,1-dichloropropene	10.490	75	35335	1.060	ppbV	97
50) benzene	10.643	78	83356	1.010	ppbV	100
51) thiophene	10.790	84	60542	1.134	ppbV	98
52) carbon tetrachloride	10.823	117	28419	0.924	ppbV	98
53) cyclohexane	10.963	56	38978	1.019	ppbV	97
54) tert-amyl methyl ether	11.357	73	64845	1.042	ppbV	99
55) dibromomethane	11.563	93	21795	1.040	ppbV	98
56) 1,2-dichloropropane	11.603	63	25301	0.991	ppbV	97
57) bromodichloromethane	11.830	83	36721	0.940	ppbV	100
58) 1,4-dioxane	11.877	88	15261	0.962	ppbV	94
59) trichloroethene	11.883	130	31033	0.988	ppbV	97
60) 2,2,4-trimethylpentane	11.937	57	132406	1.158	ppbV	100
61) methyl methacrylate	12.137	41	26640	0.960	ppbV	99
62) heptane	12.257	43	52311	1.009	ppbV	99
63) cis-1,3-dichloropropene	12.900	75	39943	0.946	ppbV	98
64) 4-methyl-2-pentanone	12.942	43	60772	0.972	ppbV	98
65) trans-1,3-dichloropropene	13.525	75	29906	0.893	ppbV	98
66) 1,1,2-trichloroethane	13.725	97	28189	0.992	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737678.D
 Acq On : 7 Jan 2024 11:36 PM
 Operator : AIRLAB17:RAY
 Sample : IT015-SIMSTD1.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:41 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	toluene	14.050	91	84111	1.019	ppbV	99
70)	2-methylthiophene	14.117	97	85002	1.177	ppbV	99
71)	1,3-dichloropropane	14.083	76	42484	1.069	ppbV	97
72)	2-hexanone	14.350	43	50740	0.893	ppbV	100
73)	3-methylthiophene	14.317	97	83188	1.178	ppbV	99
74)	dibromochloromethane	14.508	129	33152	0.913	ppbV	96
75)	1,2-dibromoethane	14.758	107	42758	0.994	ppbV	100
76)	butyl acetate	15.025	73	9117	0.949	ppbV	95
77)	octane	15.108	85	30524	1.086	ppbV	98
78)	tetrachloroethene	15.233	166	32816	0.997	ppbV	96
79)	1,1,1,2-tetrachloroethane	15.867	131	28644	1.025	ppbV	98
80)	chlorobenzene	15.875	112	71772	1.008	ppbV	99
81)	ethylbenzene	16.233	91	104532	0.985	ppbV	98
82)	2-ethylthiophene	16.275	97	92565	1.138	ppbV	99
83)	m+p-xylene	16.392	91	168484	2.006	ppbV	98
84)	bromoform	16.458	173	23672	0.823	ppbV	95
85)	styrene	16.725	104	68998	0.945	ppbV	99
86)	1,1,2,2-tetrachloroethane	16.817	83	63095	1.001	ppbV	99
87)	o-xylene	16.817	91	84959	1.014	ppbV	99
88)	1,2,3-trichloropropane	16.933	75	51079	1.083	ppbV	99
89)	nonane	17.025	43	83943	1.094	ppbV	99
91)	isopropylbenzene	17.342	105	116428	1.102	ppbV	97
92)	bromobenzene	17.408	77	66369	1.091	ppbV	95
93)	2-chlorotoluene	17.742	126	33181	1.078	ppbV	93
94)	n-propylbenzene	17.775	120	35848	1.080	ppbV	99
95)	4-chlorotoluene	17.808	126	30252	1.014	ppbV	97
96)	4-ethyl toluene	17.900	105	118490	1.041	ppbV	99
97)	1,3,5-trimethylbenzene	17.958	105	102624	1.038	ppbV	97
98)	tert-butylbenzene	18.308	119	102710	1.091	ppbV	99
99)	1,2,4-trimethylbenzene	18.308	105	101826	1.020	ppbV	96
100)	decane	18.400	57	76452	1.079	ppbV	94
101)	Benzyl Chloride	18.425	91	46747	0.827	ppbV	98
102)	1,3-dichlorobenzene	18.442	146	58786	0.972	ppbV	99
103)	1,4-dichlorobenzene	18.492	146	56550	0.942	ppbV	97
104)	sec-butylbenzene	18.533	105	149158	1.126	ppbV	99
105)	1,2,3-trimethylbenzene	18.667	105	95581	1.062	ppbV	99
106)	p-isopropyltoluene	18.667	119	124881	1.102	ppbV	100
107)	1,2-dichlorobenzene	18.783	146	56354	0.991	ppbV	99
108)	n-butylbenzene	19.042	91	105473	1.095	ppbV	99
109)	indan	18.842	117	98290	1.062	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737678.D
 Acq On : 7 Jan 2024 11:36 PM
 Operator : AIRLAB17:RAY
 Sample : IT015-SIMSTD1.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:41 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

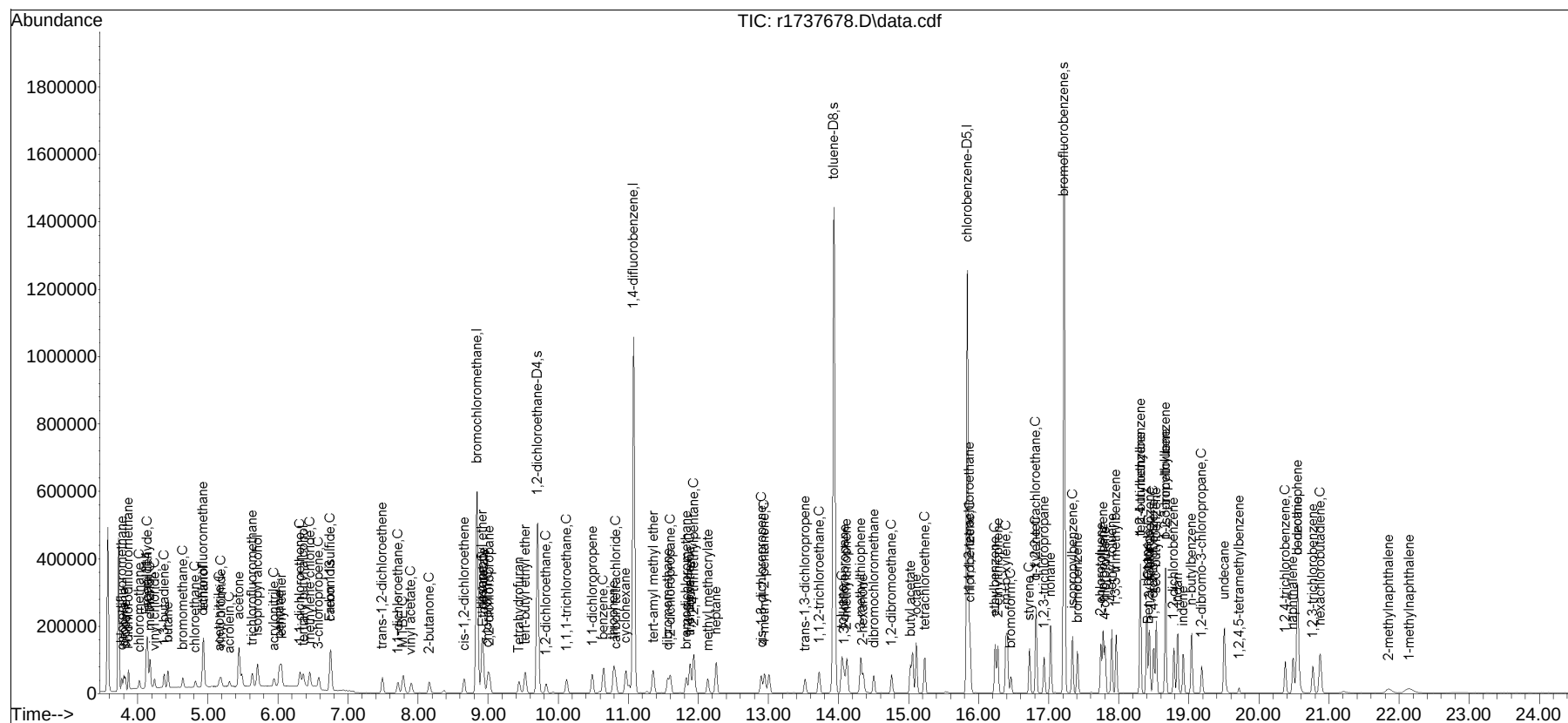
CCAL FILE : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110)	indene	18.917	115	63256	1.030	ppbV	97
111)	1,2-dibromo-3-chloropr...	19.183	75	22670	0.996	ppbV	91
112)	undecane	19.508	57	81739	1.076	ppbV	98
113)	1,2,4,5-tetramethylben...	19.717	119	9682	1.005	ppbV	99
114)	dodecane	20.550	57	77096	1.020	ppbV	98
115)	1,2,4-trichlorobenzene	20.375	180	34374	0.850	ppbV	98
116)	naphthalene	20.483	128	105627	1.087	ppbV	98
117)	1,2,3-trichlorobenzene	20.767	180	32086	1.048	ppbV	98
118)	benzothiophene	20.550	134	199083	0.995	ppbV	99
119)	hexachlorobutadiene	20.875	225	36574	0.972	ppbV	98
120)	2-methylnaphthalene	21.850	142	27086	0.889	ppbV	96
121)	1-methylnaphthalene	22.150	142	38516	0.875	ppbV	96

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

```
Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737678.D
Acq On    : 7 Jan 2024 11:36 PM
Operator  : AIRLAB17:RAY
Sample    : IT015-SIMSTD1.0
Misc      : WG1872080
ALS Vial  : 0 Sample Multiplier: 1
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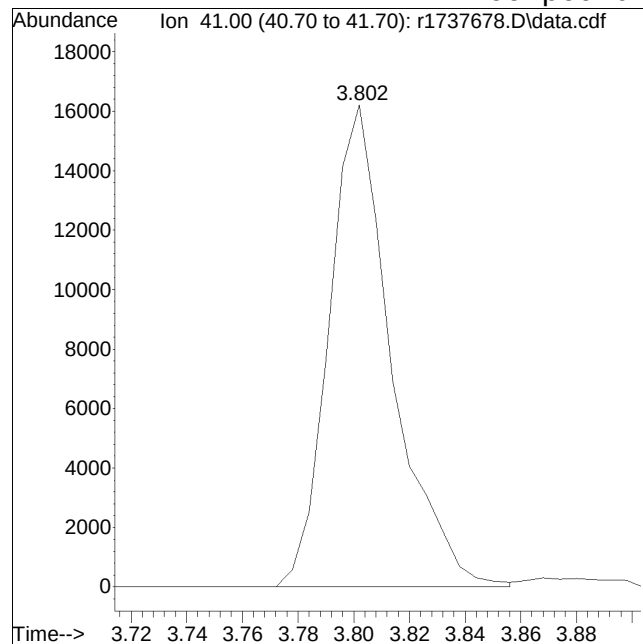
Quant Time: Jan 08 14:48:41 2024
Quant Method : 0:\Forensics\Data\AirLab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration



Manual Integration Report

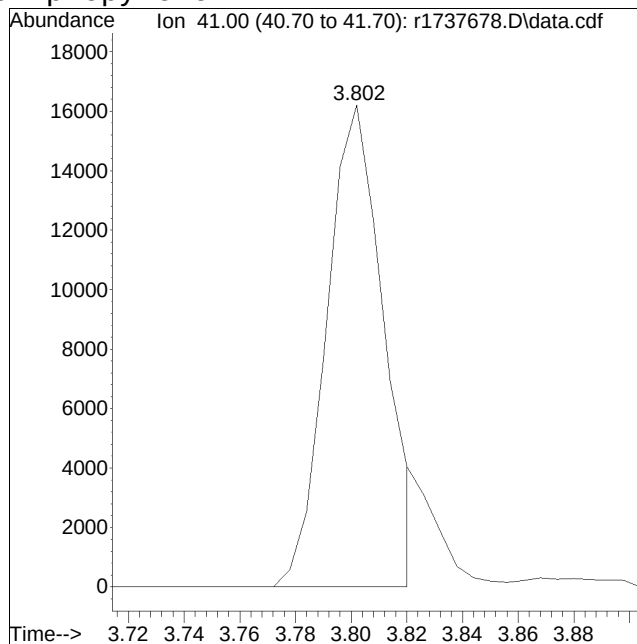
Data Path : 0:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1737678.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:1: 6 Instrument :
Sample : IT015-SIMSTD1.0 Quant Date : 1/8/2024 2:48 pm

Compound #3: propylene



Original Peak Response = 25461

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



Manual Peak Response = 23174 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737679.D
 Acq On : 8 Jan 2024 12:15 AM
 Operator : AIRLAB17:RAY
 Sample : IT015-SIMSTD5.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:53 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	8.842	49	429879	10.000	ppbV	0.00
Standard Area = 426000			Recovery = 100.91%			
43) 1,4-difluorobenzene	11.070	114	1136844	10.000	ppbV	0.00
Standard Area = 1124227			Recovery = 101.12%			
67) chlorobenzene-D5	15.833	54	155961	10.000	ppbV	0.00
Standard Area = 154777			Recovery = 100.76%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.700	65	351085	10.160	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.60%			
69) toluene-D8	13.933	98	1165834	10.107	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.07%			
90) bromofluorobenzene	17.217	95	720227	10.099	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.99%			
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.772	51	172346	4.855	ppbV	100
3) propylene	3.802	41	92993M6	5.113	ppbV	
4) propane	3.820	29	131144	5.128	ppbV	98
5) dichlorodifluoromethane	3.868	85	213233	5.144	ppbV	99
6) chloromethane	4.024	50	110830	5.028	ppbV	99
7) Freon-114	4.126	85	261651	5.150	ppbV	97
8) methanol	4.174	31	264847	25.044	ppbV	97
9) vinyl chloride	4.240	62	113963	5.019	ppbV	99
10) 1,3-butadiene	4.372	54	97120	5.005	ppbV	98
11) butane	4.432	43	159470	5.017	ppbV	100
12) acetaldehyde	4.138	29	388153	26.240	ppbV	99
13) bromomethane	4.642	94	93564	4.997	ppbV	99
14) chloroethane	4.822	64	51729	5.004	ppbV	99
15) ethanol	4.936	31	445755	23.616	ppbV	100
16) dichlorofluoromethane	4.924	67	179537	4.996	ppbV	100
17) vinyl bromide	5.187	106	89673	5.039	ppbV	98
18) acrolein	5.303	56	50497	5.044	ppbV	96
19) acetone	5.437	43	623611	25.172	ppbV	100
20) acetonitrile	5.163	41	85192	4.910	ppbV	97
21) trichlorofluoromethane	5.633	101	164042	5.011	ppbV	99
22) isopropyl alcohol	5.703	45	426477	12.419	ppbV	100
23) acrylonitrile	5.940	53	92200	4.872	ppbV	98
24) pentane	6.020	43	187796	5.028	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737679.D
 Acq On : 8 Jan 2024 12:15 AM
 Operator : AIRLAB17:RAY
 Sample : IT015-SIMSTD5.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:53 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.043	31	188287	5.036	ppbV	100
26) 1,1-dichloroethene	6.312	61	147439	5.044	ppbV	99
27) tertiary butyl alcohol	6.348	59	193332	4.990	ppbV	99
28) methylene chloride	6.450	49	137972	5.048	ppbV	96
29) 3-chloropropene	6.582	41	158363	4.930	ppbV	99
30) carbon disulfide	6.744	76	366889	4.916	ppbV	98
31) Freon 113	6.750	101	216454	5.088	ppbV	99
32) trans-1,2-dichloroethene	7.492	61	152522	4.961	ppbV	99
33) 1,1-dichloroethane	7.708	63	194552	4.998	ppbV	99
34) MTBE	7.775	73	285050	5.019	ppbV	99
35) vinyl acetate	7.900	43	259605	4.887	ppbV	100
36) 2-butanone	8.150	43	263831	4.945	ppbV	100
37) cis-1,2-dichloroethene	8.658	61	145030	4.997	ppbV	99
38) Ethyl Acetate	8.925	61	36992	5.010	ppbV	94
39) chloroform	8.992	83	206476	5.057	ppbV	100
40) Tetrahydrofuran	9.425	42	151080	4.931	ppbV	99
41) 2,2-dichloropropane	9.017	77	154651	4.987	ppbV	100
42) 1,2-dichloroethane	9.825	62	113350	4.994	ppbV	99
44) hexane	8.908	57	185677	5.019	ppbV	93
45) diisopropyl ether	8.908	87	93836	4.971	ppbV	98
46) tert-butyl ethyl ether	9.517	59	317288	5.003	ppbV	99
48) 1,1,1-trichloroethane	10.117	97	161296	4.958	ppbV	99
49) 1,1-dichloropropene	10.483	75	171525	4.971	ppbV	100
50) benzene	10.643	78	426570	4.994	ppbV	100
51) thiophene	10.790	84	276329	4.998	ppbV	100
52) carbon tetrachloride	10.817	117	154811	4.862	ppbV	99
53) cyclohexane	10.963	56	198120	5.004	ppbV	98
54) tert-amyl methyl ether	11.343	73	320546	4.975	ppbV	100
55) dibromomethane	11.557	93	108198	4.986	ppbV	99
56) 1,2-dichloropropane	11.597	63	131929	4.989	ppbV	100
57) bromodichloromethane	11.823	83	197793	4.888	ppbV	97
58) 1,4-dioxane	11.857	88	81042	4.934	ppbV	97
59) trichloroethene	11.877	130	162925	5.011	ppbV	98
60) 2,2,4-trimethylpentane	11.930	57	592083	5.001	ppbV	100
61) methyl methacrylate	12.123	41	140358	4.887	ppbV	99
62) heptane	12.250	43	269214	5.016	ppbV	99
63) cis-1,3-dichloropropene	12.892	75	215508	4.932	ppbV	99
64) 4-methyl-2-pentanone	12.933	43	320882	4.955	ppbV	100
65) trans-1,3-dichloropropene	13.517	75	169470	4.889	ppbV	99
66) 1,1,2-trichloroethane	13.717	97	147254	5.003	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737679.D
 Acq On : 8 Jan 2024 12:15 AM
 Operator : AIRLAB17:RAY
 Sample : IT015-SIMSTD5.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:53 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.042	91	434291	4.974	ppbV	98
70) 2-methylthiophene	14.117	97	380314	4.980	ppbV	100
71) 1,3-dichloropropane	14.075	76	211116	5.021	ppbV	98
72) 2-hexanone	14.333	43	295279	4.912	ppbV	99
73) 3-methylthiophene	14.317	97	375037	5.021	ppbV	99
74) dibromochloromethane	14.500	129	183234	4.773	ppbV	99
75) 1,2-dibromoethane	14.750	107	228918	5.031	ppbV	100
76) butyl acetate	15.008	73	49329	4.855	ppbV	97
77) octane	15.108	85	148889	5.006	ppbV	95
78) tetrachloroethene	15.225	166	173250	4.974	ppbV	96
79) 1,1,1,2-tetrachloroethane	15.858	131	145609	4.927	ppbV	97
80) chlorobenzene	15.875	112	378394	5.022	ppbV	99
81) ethylbenzene	16.233	91	556952	4.962	ppbV	99
82) 2-ethylthiophene	16.267	97	425217	4.944	ppbV	99
83) m+p-xylene	16.392	91	879993	9.906	ppbV	99
84) bromoform	16.458	173	142444	4.683	ppbV	98
85) styrene	16.725	104	377925	4.892	ppbV	98
86) 1,1,2,2-tetrachloroethane	16.808	83	332614	4.989	ppbV	100
87) o-xylene	16.817	91	442786	4.996	ppbV	99
88) 1,2,3-trichloropropane	16.925	75	249093	4.995	ppbV	99
89) nonane	17.025	43	408876	5.040	ppbV	100
91) isopropylbenzene	17.333	105	568501	5.086	ppbV	98
92) bromobenzene	17.408	77	322431	5.012	ppbV	100
93) 2-chlorotoluene	17.742	126	161153	4.949	ppbV	87
94) n-propylbenzene	17.767	120	174472	4.967	ppbV	99
95) 4-chlorotoluene	17.800	126	155560	4.931	ppbV	98
96) 4-ethyl toluene	17.892	105	607577	5.047	ppbV	99
97) 1,3,5-trimethylbenzene	17.958	105	533983	5.108	ppbV	97
98) tert-butylbenzene	18.300	119	498220	5.004	ppbV	99
99) 1,2,4-trimethylbenzene	18.300	105	529695	5.017	ppbV	98
100) decane	18.392	57	374290	4.992	ppbV	97
101) Benzyl Chloride	18.425	91	272876	4.563	ppbV	98
102) 1,3-dichlorobenzene	18.433	146	311885	4.877	ppbV	99
103) 1,4-dichlorobenzene	18.492	146	307237	4.839	ppbV	99
104) sec-butylbenzene	18.525	105	707560	5.051	ppbV	100
105) 1,2,3-trimethylbenzene	18.658	105	482072	5.064	ppbV	99
106) p-isopropyltoluene	18.658	119	596995	4.979	ppbV	99
107) 1,2-dichlorobenzene	18.783	146	290763	4.833	ppbV	97
108) n-butylbenzene	19.025	91	508785	4.994	ppbV	98
109) indan	18.833	117	493505	5.042	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737679.D
 Acq On : 8 Jan 2024 12:15 AM
 Operator : AIRLAB17:RAY
 Sample : IT015-SIMSTD5.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:53 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

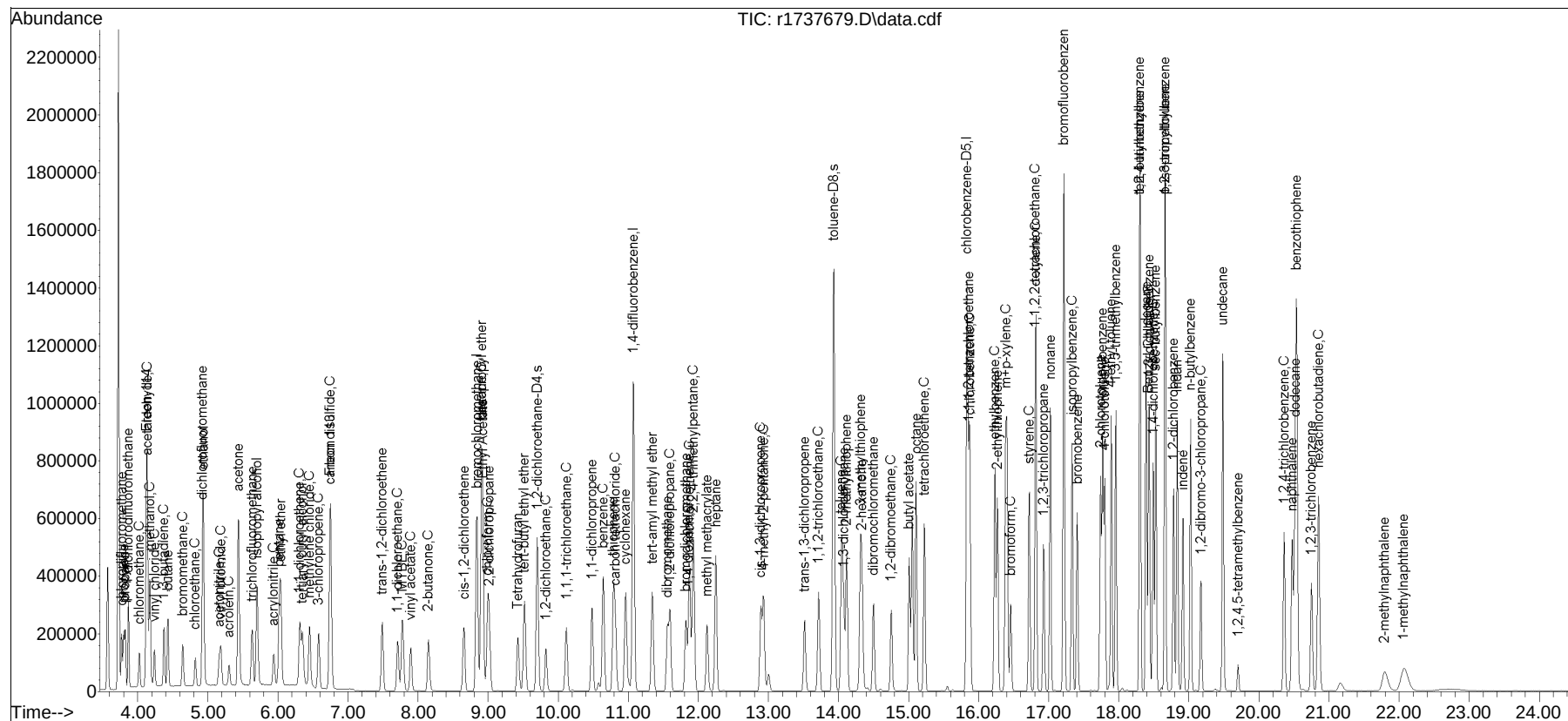
CCAL FILE : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110)	indene	18.917	115	319244	4.914	ppbV	99
111)	1,2-dibromo-3-chloropr...	19.175	75	114164	4.740	ppbV	96
112)	undecane	19.483	57	400266	4.982	ppbV	100
113)	1,2,4,5-tetramethylben...	19.700	119	49465	4.853	ppbV	98
114)	dodecane	20.517	57	382749	4.787	ppbV	99
115)	1,2,4-trichlorobenzene	20.358	180	193326	4.520	ppbV	98
116)	naphthalene	20.475	128	474724	4.618	ppbV	99
117)	1,2,3-trichlorobenzene	20.750	180	144198	4.451	ppbV	99
118)	benzothiophene	20.533	134	907123	4.284	ppbV	98
119)	hexachlorobutadiene	20.850	225	192274	4.832	ppbV	99
120)	2-methylnaphthalene	21.792	142	121981	3.786	ppbV	98
121)	1-methylnaphthalene	22.067	142	186452	4.005	ppbV	99

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

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Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737679.D
Acq On    : 8 Jan 2024 12:15 AM
Operator  : AIRLAB17:RAY
Sample    : IT015-SIMSTD5.0
Misc      : WG1872080
ALS Vial  : 0 Sample Multiplier: 1
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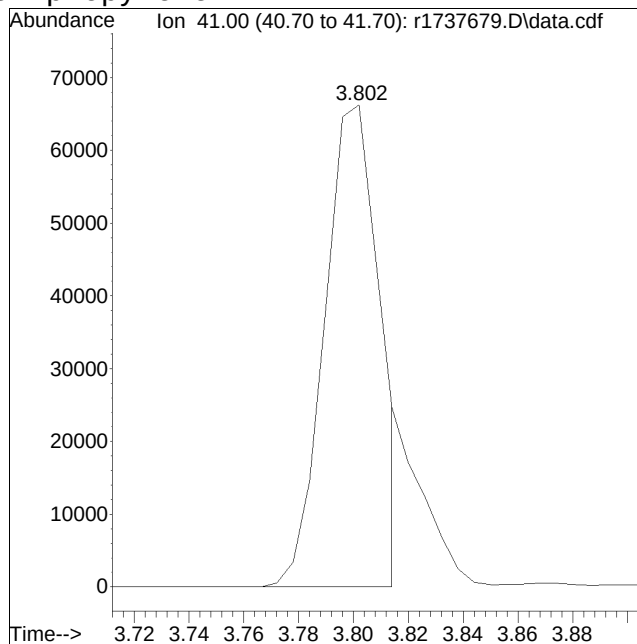
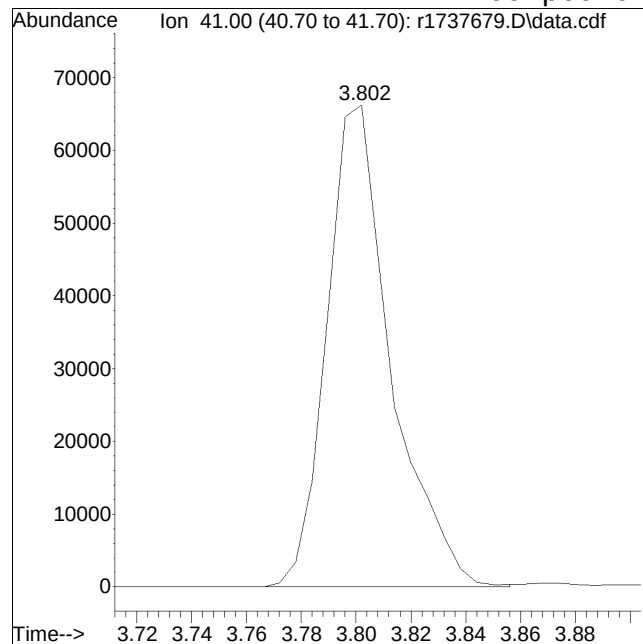
Quant Time: Jan 08 14:48:53 2024
Quant Method : 0:\Forensics\Data\AirLab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : 0:\Forensics\Data\AirLab17QMethod : TFS17_240107.M
Data File : r1737679.D Operator : AIRLAB17:RAY
Date Inj'd : 1/8/2020 0:2: 5 Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 1/8/2024 2:48 pm

Compound #3: propylene



Original Peak Response = 107522

Manual Peak Response = 92993 M6

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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737680.D
 Acq On : 8 Jan 2024 12:56 AM
 Operator : AIRLAB17:RAY
 Sample : IT015-SIMSTD10.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:45:23 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Nov 06 10:21:07 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	8.842	49	426000	10.000	ppbV	0.02
Standard Area = 426000			Recovery =	100.00%		
43) 1,4-difluorobenzene	11.070	114	1124227	10.000	ppbV	0.01
Standard Area = 1124227			Recovery =	100.00%		
67) chlorobenzene-D5	15.833	54	154777	10.000	ppbV	0.00
Standard Area = 154777			Recovery =	100.00%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.700	65	341719	8.795	ppbV	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery =	87.95%		
69) toluene-D8	13.925	98	1144713	8.781	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	87.81%		
90) bromofluorobenzene	17.217	95	707767	8.514	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	85.14%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.766	51	351791	8.915	ppbV	99
3) propylene	3.796	41	180244M6	8.586	ppbV	
4) propane	3.820	29	253415	8.581	ppbV	98
5) dichlorodifluoromethane	3.862	85	410820	9.593	ppbV	99
6) chloromethane	4.018	50	218422	9.307	ppbV	99
7) Freon-114	4.120	85	503523	9.316	ppbV	99
8) methanol	4.168	31	523989	43.631	ppbV	96
9) vinyl chloride	4.234	62	224992	9.130	ppbV	100
10) 1,3-butadiene	4.372	54	192288	8.984	ppbV	95
11) butane	4.426	43	314974	8.959	ppbV	99
12) acetaldehyde	4.132	29	732941	51.053	ppbV	93
13) bromomethane	4.642	94	185533	8.968	ppbV	98
14) chloroethane	4.822	64	102452	9.049	ppbV	99
15) ethanol	4.930	31	935243	47.806	ppbV	97
16) dichlorofluoromethane	4.924	67	356144	8.799	ppbV	100
17) vinyl bromide	5.183	106	176356	9.010	ppbV	99
18) acrolein	5.303	56	99215	8.302	ppbV	96
19) acetone	5.433	43	1227539	49.417	ppbV	94
20) acetonitrile	5.157	41	171953	8.657	ppbV	100
21) trichlorofluoromethane	5.630	101	324386	9.899	ppbV	99
22) isopropyl alcohol	5.700	45	850771	23.058	ppbV	99
23) acrylonitrile	5.940	53	187552	8.664	ppbV	99
24) pentane	6.020	43	370109	8.785	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737680.D
 Acq On : 8 Jan 2024 12:56 AM
 Operator : AIRLAB17:RAY
 Sample : IT015-SIMSTD10.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:45:23 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Nov 06 10:21:07 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.040	31	370508	8.868	ppbV	99
26) 1,1-dichloroethene	6.312	61	289677	9.330	ppbV	97
27) tertiary butyl alcohol	6.348	59	383949	9.267	ppbV	99
28) methylene chloride	6.450	49	270880	8.250	ppbV	90
29) 3-chloropropene	6.582	41	318308	9.240	ppbV	99
30) carbon disulfide	6.744	76	739507	10.331	ppbV	99
31) Freon 113	6.750	101	421596	9.320	ppbV	100
32) trans-1,2-dichloroethene	7.492	61	304681	8.880	ppbV	100
33) 1,1-dichloroethane	7.708	63	385736	9.037	ppbV	100
34) MTBE	7.775	73	562763	9.352	ppbV	99
35) vinyl acetate	7.892	43	526421	9.617	ppbV	100
36) 2-butanone	8.150	43	528670	9.399	ppbV	99
37) cis-1,2-dichloroethene	8.650	61	287610	8.979	ppbV	99
38) Ethyl Acetate	8.925	61	73176	9.118	ppbV	97
39) chloroform	8.992	83	404595	9.033	ppbV	99
40) Tetrahydrofuran	9.417	42	303638	9.164	ppbV	99
41) 2,2-dichloropropane	9.017	77	307312	9.136	ppbV	97
42) 1,2-dichloroethane	9.825	62	224939	8.670	ppbV	98
44) hexane	8.908	57	365830	8.848	ppbV	94
45) diisopropyl ether	8.908	87	186671	8.582	ppbV	99
46) tert-butyl ethyl ether	9.517	59	627175	8.776	ppbV	98
48) 1,1,1-trichloroethane	10.117	97	321725	9.249	ppbV	99
49) 1,1-dichloropropene	10.483	75	341214	8.890	ppbV	98
50) benzene	10.643	78	844767	9.314	ppbV	99
51) thiophene	10.790		0	N.D.		
52) carbon tetrachloride	10.817	117	314896	9.900	ppbV	99
53) cyclohexane	10.963	56	391510	8.872	ppbV	97
54) tert-amyl methyl ether	11.343	73	637203	8.894	ppbV	98
55) dibromomethane	11.557	93	214575	8.670	ppbV	98
56) 1,2-dichloropropane	11.590	63	261508	8.986	ppbV	100
57) bromodichloromethane	11.823	83	400181	9.716	ppbV	99
58) 1,4-dioxane	11.857	88	162415	9.013	ppbV	99
59) trichloroethene	11.877	130	321505	8.858	ppbV	98
60) 2,2,4-trimethylpentane	11.930	57	1170770	8.950	ppbV	98
61) methyl methacrylate	12.123	41	284025	9.215	ppbV	98
62) heptane	12.250	43	530706	9.262	ppbV	99
63) cis-1,3-dichloropropene	12.892	75	432132	9.917	ppbV	99
64) 4-methyl-2-pentanone	12.925	43	640451	9.494	ppbV	99
65) trans-1,3-dichloropropene	13.517	75	342771	9.779	ppbV	98
66) 1,1,2-trichloroethane	13.717	97	291037	9.034	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737680.D
 Acq On : 8 Jan 2024 12:56 AM
 Operator : AIRLAB17:RAY
 Sample : IT015-SIMSTD10.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:45:23 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Nov 06 10:21:07 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.042	91	866431	9.288	ppbV	99
70) 2-methylthiophene	14.117		0	N.D.		
71) 1,3-dichloropropane	14.067	76	417308	8.919	ppbV	94
72) 2-hexanone	14.333	43	596544	9.616	ppbV	99
73) 3-methylthiophene	14.308		0	N.D.		
74) dibromochloromethane	14.500	129	381003	10.072	ppbV	95
75) 1,2-dibromoethane	14.750	107	451585	9.228	ppbV	100
76) butyl acetate	15.008	73	100825	9.339	ppbV	96
77) octane	15.100	85	295190	8.498	ppbV	97
78) tetrachloroethene	15.225	166	345662	9.015	ppbV	95
79) 1,1,1,2-tetrachloroethane	15.858	131	293296	9.054	ppbV	99
80) chlorobenzene	15.875	112	747797	8.966	ppbV	98
81) ethylbenzene	16.233	91	1113924	9.338	ppbV	95
82) 2-ethylthiophene	16.267		0	N.D.		
83) m+p-xylene	16.400	91	1763206	18.574	ppbV	98
84) bromoform	16.458	173	301854	10.837	ppbV	99
85) styrene	16.717	104	766731	9.219	ppbV	99
86) 1,1,2,2-tetrachloroethane	16.808	83	661664	8.977	ppbV	99
87) o-xylene	16.817	91	879554	9.246	ppbV	99
88) 1,2,3-trichloropropane	16.925	75	494910	8.659	ppbV	98
89) nonane	17.025	43	805173	8.936	ppbV	96
91) isopropylbenzene	17.333	105	1109234	8.466	ppbV	99
92) bromobenzene	17.408	77	638440	8.525	ppbV	97
93) 2-chlorotoluene	17.733	126	323157	8.358	ppbV	90
94) n-propylbenzene	17.767	120	348579	8.086	ppbV	87
95) 4-chlorotoluene	17.800	126	313109	8.282	ppbV	97
96) 4-ethyl toluene	17.892	105	1194720	8.795	ppbV	98
97) 1,3,5-trimethylbenzene	17.958	105	1037532	8.824	ppbV	99
98) tert-butylbenzene	18.300	119	988035	8.484	ppbV	99
99) 1,2,4-trimethylbenzene	18.300	105	1047825	9.062	ppbV	95
100) decane	18.383	57	744030	8.405	ppbV	97
101) Benzyl Chloride	18.417	91	593417	10.725	ppbV	98
102) 1,3-dichlorobenzene	18.433	146	634611	8.723	ppbV	98
103) 1,4-dichlorobenzene	18.492	146	630131	8.737	ppbV	98
104) sec-butylbenzene	18.525	105	1390216	8.391	ppbV	97
105) 1,2,3-trimethylbenzene	18.658	105	944642	8.982	ppbV	97
106) p-isopropyltoluene	18.658	119	1190028	8.470	ppbV	100
107) 1,2-dichlorobenzene	18.775	146	597043	8.593	ppbV	99
108) n-butylbenzene	19.025	91	1011028	8.387	ppbV	96
109) indan	18.833	117	971418	8.562	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737680.D
 Acq On : 8 Jan 2024 12:56 AM
 Operator : AIRLAB17:RAY
 Sample : IT015-SIMSTD10.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:45:23 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Nov 06 10:21:07 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110)	indene	18.908	115	644762	8.459	ppbV	98
111)	1,2-dibromo-3-chloropr...	19.167	75	239038	9.503	ppbV	98
112)	undecane	19.483	57	797286	8.342	ppbV	96
113)	1,2,4,5-tetramethylben...	19.700	119	101158	5.148	ppbV	98
114)	dodecane	20.517	57	793437	8.690	ppbV	92
115)	1,2,4-trichlorobenzene	20.358	180	424480	8.663	ppbV	97
116)	naphthalene	20.475	128	1020202	7.303	ppbV	99
117)	1,2,3-trichlorobenzene	20.750	180	321495	7.409	ppbV	99
118)	benzothiophene	20.542	134	2101377	9.348	ppbV	99
119)	hexachlorobutadiene	20.850	225	394885	8.916	ppbV	96
120)	2-methylnaphthalene	21.800	142	319753	7.855	ppbV	100
121)	1-methylnaphthalene	22.083	142	462005	11.097	ppbV	99

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

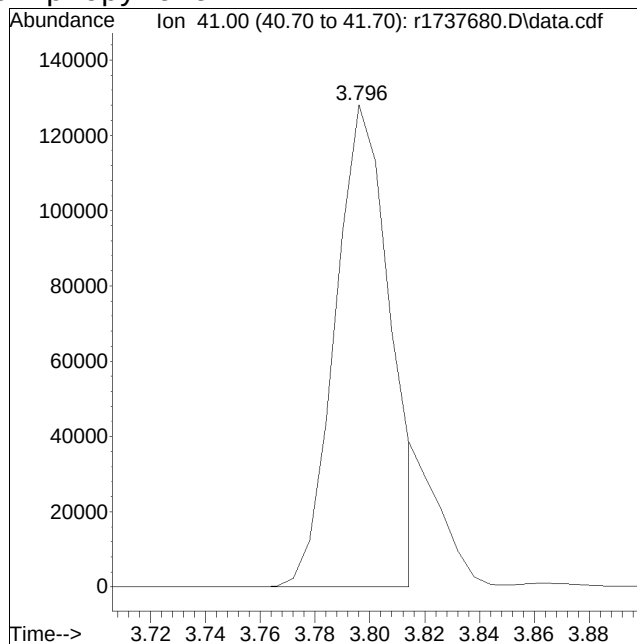
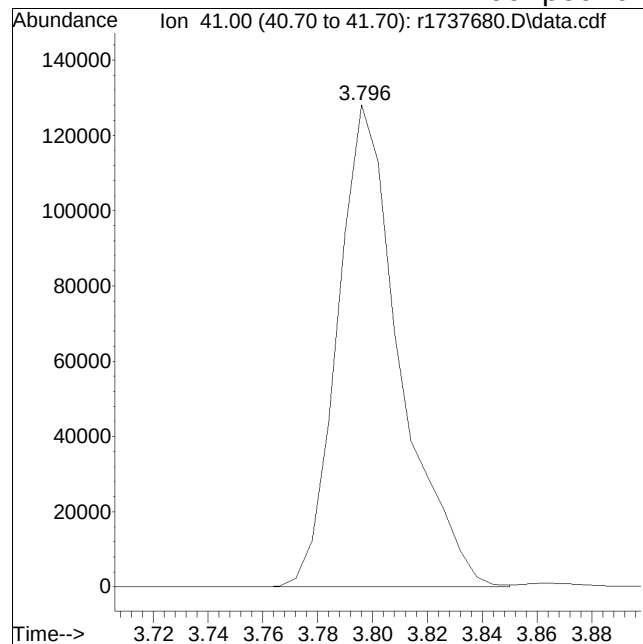
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Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737680.D
Acq On    : 8 Jan 2024 12:56 AM
Operator  : AIRLAB17:RAY
Sample    : IT015-SIMSTD10.0
Misc      : WG1872080
ALS Vial  : 0 Sample Multiplier: 1
```

[illegible]

Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1737680.D Operator : AIRLAB17:RAY
Date Inj'd : 1/8/2020 0:2: 6 Instrument :
Sample : IT015-SIMSTD10.0 Quant Date : 1/8/2024 2:45 pm

Compound #3: propylene



Original Peak Response = 203134

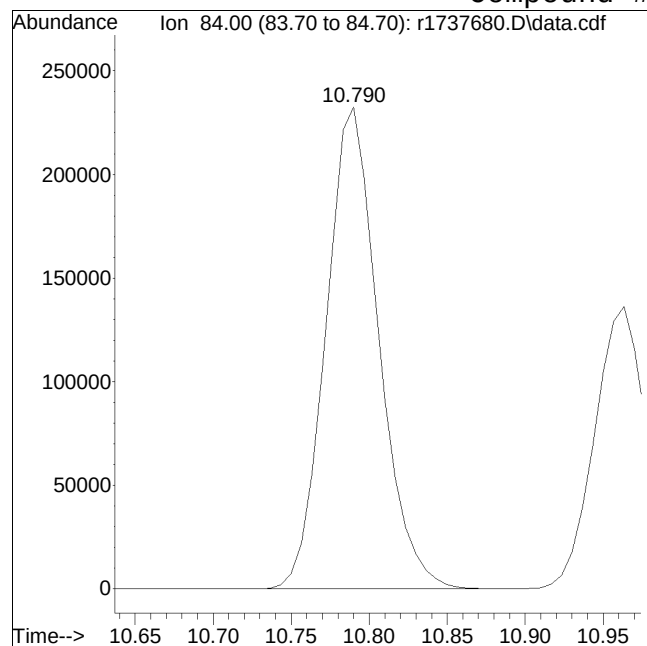
Manual Peak Response = 180244 M6

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

Manual Integration Report

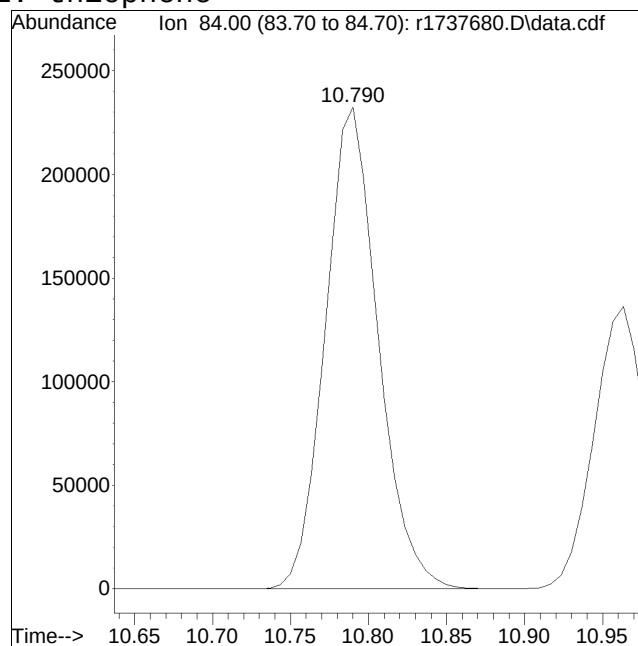
Data Path : 0:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1737680.D Operator : AIRLAB17:RAY
Date Inj'd : 1/8/2020 0:2: 6 Instrument :
Sample : IT015-SIMSTD10.0 Quant Date : 1/8/2024 2:45 pm

Compound #51: thiophene



Original Peak Response = 546959

M4 = Poor automated baseline construction.



Manual Peak Response = 546721 M4

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737681.D
 Acq On : 8 Jan 2024 1:35 AM
 Operator : AIRLAB17:RAY
 Sample : IT015-SIMSTD20
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:10 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	8.833	49	434811	10.000	ppbV	0.00
Standard Area = 426000			Recovery =	102.07%		
43) 1,4-difluorobenzene	11.063	114	1138671	10.000	ppbV	0.00
Standard Area = 1124227			Recovery =	101.28%		
67) chlorobenzene-D5	15.825	54	155430	10.000	ppbV	0.00
Standard Area = 154777			Recovery =	100.42%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.692	65	341034	9.853	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.53%		
69) toluene-D8	13.925	98	1153931	10.038	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.38%		
90) bromofluorobenzene	17.208	95	718949	10.115	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.15%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.766	51	735976	20.497	ppbV	99
3) propylene	3.796	41	363527M6	19.760	ppbV	
4) propane	3.820	29	540844	20.910	ppbV	99
5) dichlorodifluoromethane	3.862	85	806242	19.228	ppbV	99
6) chloromethane	4.018	50	429126	19.249	ppbV	100
7) Freon-114	4.120	85	985252	19.171	ppbV	99
8) methanol	4.168	31	1136948	106.291	ppbV	98
9) vinyl chloride	4.234	62	444397	19.351	ppbV	99
10) 1,3-butadiene	4.372	54	382004	19.464	ppbV	100
11) butane	4.426	43	656508	20.421	ppbV	99
12) acetaldehyde	4.132	29	1469518	98.217	ppbV	99
13) bromomethane	4.636	94	367715	19.418	ppbV	99
14) chloroethane	4.816	64	204657	19.571	ppbV	100
15) ethanol	4.930	31	1849620	96.881	ppbV	100
16) dichlorofluoromethane	4.924	67	752433	20.699	ppbV	100
17) vinyl bromide	5.180	106	357858	19.881	ppbV	97
18) acrolein	5.297	56	216188	21.348	ppbV	97
19) acetone	5.430	43	2516266	100.415	ppbV	99
20) acetonitrile	5.157	41	371624	21.174	ppbV	97
21) trichlorofluoromethane	5.627	101	649958	19.631	ppbV	100
22) isopropyl alcohol	5.697	45	1745507	50.253	ppbV	99
23) acrylonitrile	5.937	53	402902	21.047	ppbV	99
24) pentane	6.013	43	796733	21.091	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737681.D
 Acq On : 8 Jan 2024 1:35 AM
 Operator : AIRLAB17:RAY
 Sample : IT015-SIMSTD20
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:10 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.033	31	814858	21.547	ppbV	99
26) 1,1-dichloroethene	6.306	61	592260	20.031	ppbV	100
27) tertiary butyl alcohol	6.342	59	817684	20.865	ppbV #	92
28) methylene chloride	6.444	49	642789	23.249	ppbV	92
29) 3-chloropropene	6.576	41	645870	19.880	ppbV	99
30) carbon disulfide	6.738	76	1497991	19.846	ppbV	100
31) Freon 113	6.744	101	842103	19.569	ppbV	99
32) trans-1,2-dichloroethene	7.483	61	617356	19.852	ppbV	99
33) 1,1-dichloroethane	7.700	63	772266	19.615	ppbV	100
34) MTBE	7.767	73	1144458	19.924	ppbV	99
35) vinyl acetate	7.883	43	1100302	20.478	ppbV	99
36) 2-butanone	8.133	43	1070245	19.834	ppbV	99
37) cis-1,2-dichloroethene	8.650	61	577609	19.676	ppbV	99
38) Ethyl Acetate	8.917	61	149983	20.081	ppbV	97
39) chloroform	8.983	83	813451	19.698	ppbV	98
40) Tetrahydrofuran	9.408	42	616425	19.890	ppbV	99
41) 2,2-dichloropropane	9.008	77	654373	20.862	ppbV	99
42) 1,2-dichloroethane	9.817	62	447049	19.472	ppbV	100
44) hexane	8.900	57	748422	20.199	ppbV	98
45) diisopropyl ether	8.900	87	397771	21.038	ppbV	95
46) tert-butyl ethyl ether	9.508	59	1349015	21.237	ppbV	99
48) 1,1,1-trichloroethane	10.108	97	647270	19.864	ppbV	99
49) 1,1-dichloropropene	10.477	75	728766	21.087	ppbV	99
50) benzene	10.637	78	1679109	19.624	ppbV	100
51) thiophene	10.783	84	1272657	22.983	ppbV	99
52) carbon tetrachloride	10.810	117	639826	20.061	ppbV	100
53) cyclohexane	10.957	56	800764	20.194	ppbV	98
54) tert-amyl methyl ether	11.330	73	1366861	21.179	ppbV	99
55) dibromomethane	11.550	93	458994	21.120	ppbV	99
56) 1,2-dichloropropane	11.590	63	526916	19.894	ppbV	100
57) bromodichloromethane	11.817	83	822427	20.291	ppbV	98
58) 1,4-dioxane	11.850	88	334186	20.315	ppbV	99
59) trichloroethene	11.870	130	647672	19.889	ppbV	97
60) 2,2,4-trimethylpentane	11.923	57	2371690	20.001	ppbV	100
61) methyl methacrylate	12.117	41	587851	20.435	ppbV	100
62) heptane	12.243	43	1073656	19.974	ppbV	99
63) cis-1,3-dichloropropene	12.883	75	869187	19.859	ppbV	100
64) 4-methyl-2-pentanone	12.917	43	1301403	20.062	ppbV	100
65) trans-1,3-dichloropropene	13.508	75	696412	20.059	ppbV	99
66) 1,1,2-trichloroethane	13.708	97	579129	19.646	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737681.D
 Acq On : 8 Jan 2024 1:35 AM
 Operator : AIRLAB17:RAY
 Sample : IT015-SIMSTD20
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:10 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.042	91	1723751	19.811	ppbV	98
70) 2-methylthiophene	14.108	97	1756043	23.074	ppbV	99
71) 1,3-dichloropropane	14.067	76	890325	21.245	ppbV	97
72) 2-hexanone	14.325	43	1230515	20.541	ppbV	98
73) 3-methylthiophene	14.308	97	1731400	23.258	ppbV	99
74) dibromochloromethane	14.492	129	796408	20.815	ppbV	98
75) 1,2-dibromoethane	14.750	107	902367	19.898	ppbV	100
76) butyl acetate	15.000	73	215597	21.293	ppbV	95
77) octane	15.100	85	634873	21.417	ppbV	99
78) tetrachloroethene	15.217	166	688580	19.837	ppbV	99
79) 1,1,1,2-tetrachloroethane	15.850	131	631506	21.441	ppbV	99
80) chlorobenzene	15.867	112	1481317	19.726	ppbV	99
81) ethylbenzene	16.225	91	2195106	19.623	ppbV	99
82) 2-ethylthiophene	16.258	97	1957672	22.839	ppbV	99
83) m+p-xylene	16.392	91	3451177	38.982	ppbV	100
84) bromoform	16.450	173	642832	21.207	ppbV	98
85) styrene	16.717	104	1503987	19.533	ppbV	96
86) 1,1,2,2-tetrachloroethane	16.808	83	1317796	19.833	ppbV	100
87) o-xylene	16.808	91	1729844	19.585	ppbV	99
88) 1,2,3-trichloropropane	16.925	75	1055707	21.242	ppbV	100
89) nonane	17.017	43	1664967	20.592	ppbV	96
91) isopropylbenzene	17.325	105	2343986	21.043	ppbV	99
92) bromobenzene	17.400	77	1360312	21.217	ppbV	94
93) 2-chlorotoluene	17.733	126	688440	21.214	ppbV	95
94) n-propylbenzene	17.767	120	753668	21.530	ppbV	97
95) 4-chlorotoluene	17.792	126	663059	21.088	ppbV	97
96) 4-ethyl toluene	17.892	105	2401016	20.012	ppbV	99
97) 1,3,5-trimethylbenzene	17.950	105	2030805	19.491	ppbV	100
98) tert-butylbenzene	18.292	119	2065863	20.821	ppbV	99
99) 1,2,4-trimethylbenzene	18.300	105	2028857	19.281	ppbV	98
100) decane	18.383	57	1576923	21.105	ppbV	96
101) Benzyl Chloride	18.417	91	1327146	22.271	ppbV	100
102) 1,3-dichlorobenzene	18.425	146	1251416	19.637	ppbV	97
103) 1,4-dichlorobenzene	18.483	146	1228613	19.416	ppbV	97
104) sec-butylbenzene	18.525	105	2901444	20.783	ppbV	99
105) 1,2,3-trimethylbenzene	18.658	105	1868741	19.699	ppbV	98
106) p-isopropyltoluene	18.658	119	2478755	20.742	ppbV	99
107) 1,2-dichlorobenzene	18.775	146	1181851	19.712	ppbV	98
108) n-butylbenzene	19.017	91	2155120	21.227	ppbV	97
109) indan	18.825	117	1976281	20.259	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737681.D
 Acq On : 8 Jan 2024 1:35 AM
 Operator : AIRLAB17:RAY
 Sample : IT015-SIMSTD20
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:10 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110)	indene	18.908	115	1346846	20.801	ppbV	98
111)	1,2-dibromo-3-chloropr...	19.167	75	537609	22.396	ppbV	98
112)	undecane	19.475	57	1702719	21.267	ppbV	97
113)	1,2,4,5-tetramethylben...	19.692	119	205992	20.278	ppbV	100
114)	dodecane	20.492	57	1679034	21.073	ppbV	99
115)	1,2,4-trichlorobenzene	20.350	180	827531	19.413	ppbV	98
116)	naphthalene	20.467	128	2297692	22.427	ppbV	100
117)	1,2,3-trichlorobenzene	20.733	180	717004	22.208	ppbV	100
118)	benzothiophene	20.533	134	4548321	21.554	ppbV	99
119)	hexachlorobutadiene	20.833	225	734036	18.511	ppbV	99
120)	2-methylnaphthalene	21.742	142	743517	23.155	ppbV	99
121)	1-methylnaphthalene	22.017	142	910109	19.616	ppbV	98

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

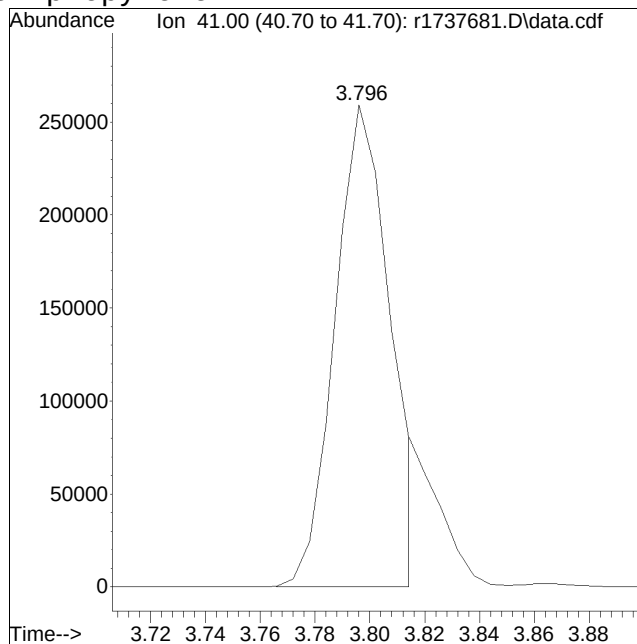
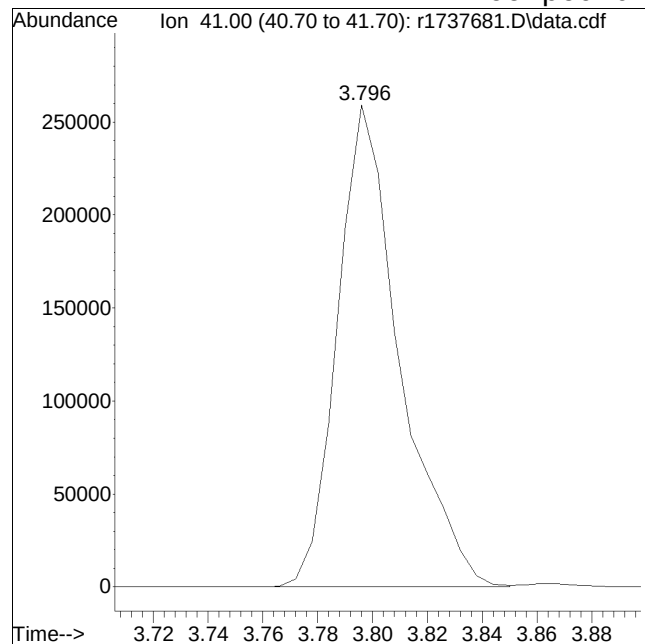
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Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737681.D
Acq On    : 8 Jan 2024    1:35 AM
Operator  : AIRLAB17:RAY
Sample    : IT015-SIMSTD20
Misc      : WG1872080
ALS Vial  : 0    Sample Multiplier: 1
```

[illegible]

Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1737681.D Operator : AIRLAB17:RAY
Date Inj'd : 1/8/2020 0:1: 5 Instrument :
Sample : IT015-SIMSTD20 Quant Date : 1/8/2024 2:49 pm

Compound #3: propylene



Original Peak Response = 410914

Manual Peak Response = 363527 M6

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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737682.D
 Acq On : 8 Jan 2024 2:14 AM
 Operator : AIRLAB17:RAY
 Sample : IT015-SIMSTD50
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:21 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	8.833	49	429091	10.000	ppbV	0.00
Standard Area = 426000			Recovery =	100.73%		
43) 1,4-difluorobenzene	11.063	114	1101978	10.000	ppbV	0.00
Standard Area = 1124227			Recovery =	98.02%		
67) chlorobenzene-D5	15.825	54	153553	10.000	ppbV	0.00
Standard Area = 154777			Recovery =	99.21%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.692	65	328839	9.817	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.17%		
69) toluene-D8	13.925	98	1111739	9.789	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.89%		
90) bromofluorobenzene	17.208	95	678969	9.670	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.70%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.766	51	1678081	47.357	ppbV	99
3) propylene	3.796	41	859425M6	47.338	ppbV	
4) propane	3.820	29	1264276	49.530	ppbV	98
5) dichlorodifluoromethane	3.862	85	1835661	44.361	ppbV	98
6) chloromethane	4.018	50	987623	44.891	ppbV	100
7) Freon-114	4.120	85	2169584	42.778	ppbV	97
8) methanol	4.168	31	2628951	249.052	ppbV	98
9) vinyl chloride	4.234	62	1030254	45.461	ppbV	99
10) 1,3-butadiene	4.372	54	866980	44.763	ppbV	98
11) butane	4.426	43	1477608	46.574	ppbV	99
12) acetaldehyde	4.132	29	3252946	220.312	ppbV	99
13) bromomethane	4.636	94	851019	45.538	ppbV	100
14) chloroethane	4.816	64	479326	46.448	ppbV	98
15) ethanol	4.936	31	4151061	220.326	ppbV	99
16) dichlorofluoromethane	4.918	67	1716948	47.862	ppbV	99
17) vinyl bromide	5.180	106	832109	46.844	ppbV	99
18) acrolein	5.297	56	507128	50.746	ppbV	96
19) acetone	5.427	43	5657962	228.799	ppbV	98
20) acetonitrile	5.157	41	859592	49.630	ppbV	97
21) trichlorofluoromethane	5.627	101	1483664	45.408	ppbV	99
22) isopropyl alcohol	5.700	45	3948821	115.201	ppbV	99
23) acrylonitrile	5.933	53	935766	49.534	ppbV	99
24) pentane	6.013	43	1808101	48.501	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737682.D
 Acq On : 8 Jan 2024 2:14 AM
 Operator : AIRLAB17:RAY
 Sample : IT015-SIMSTD50
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:21 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.030	31	2107656	56.476	ppbV	98
26) 1,1-dichloroethene	6.306	61	1355485	46.456	ppbV	99
27) tertiary butyl alcohol	6.348	59	1921139	49.676	ppbV	99
28) methylene chloride	6.444	49	1462281	53.594	ppbV	92
29) 3-chloropropene	6.576	41	1475118	46.009	ppbV	99
30) carbon disulfide	6.738	76	3356085	45.056	ppbV	99
31) Freon 113	6.738	101	1902417	44.799	ppbV	97
32) trans-1,2-dichloroethene	7.483	61	1416192	46.146	ppbV	99
33) 1,1-dichloroethane	7.700	63	1769410	45.541	ppbV	100
34) MTBE	7.767	73	2647501	46.706	ppbV	99
35) vinyl acetate	7.892	43	2527055	47.659	ppbV	100
36) 2-butanone	8.133	43	2601639	48.857	ppbV	98
37) cis-1,2-dichloroethene	8.650	61	1320752	45.591	ppbV	98
38) Ethyl Acetate	8.917	61	359097	48.720	ppbV	79
39) chloroform	8.992	83	1860772	45.660	ppbV	99
40) Tetrahydrofuran	9.408	42	1427634	46.679	ppbV	100
41) 2,2-dichloropropane	9.008	77	1500518	48.475	ppbV	99
42) 1,2-dichloroethane	9.817	62	1024880	45.234	ppbV	99
44) hexane	8.900	57	1718006	47.910	ppbV	87
45) diisopropyl ether	8.900	87	937532	51.238	ppbV	79
46) tert-butyl ethyl ether	9.508	59	3121533	50.776	ppbV	99
48) 1,1,1-trichloroethane	10.108	97	1612405	51.129	ppbV	100
49) 1,1-dichloropropene	10.477	75	1650418	49.346	ppbV	99
50) benzene	10.637	78	3817306	46.100	ppbV	99
51) thiophene	10.783	84	2928899	54.654	ppbV	99
52) carbon tetrachloride	10.810	117	1484235	48.086	ppbV	99
53) cyclohexane	10.950	56	1846632	48.119	ppbV	99
54) tert-amyl methyl ether	11.330	73	3119066	49.938	ppbV	99
55) dibromomethane	11.550	93	1047753	49.815	ppbV	98
56) 1,2-dichloropropane	11.590	63	1202578	46.915	ppbV	99
57) bromodichloromethane	11.817	83	1914830	48.815	ppbV	98
58) 1,4-dioxane	11.843	88	778329	48.890	ppbV	100
59) trichloroethene	11.870	130	1491097	47.315	ppbV	98
60) 2,2,4-trimethylpentane	11.923	57	5427514	47.294	ppbV	99
61) methyl methacrylate	12.117	41	1370439	49.225	ppbV	100
62) heptane	12.237	43	2404120	46.215	ppbV	95
63) cis-1,3-dichloropropene	12.883	75	2011300	47.483	ppbV	99
64) 4-methyl-2-pentanone	12.917	43	2936741	46.780	ppbV	97
65) trans-1,3-dichloropropene	13.508	75	1619823	48.211	ppbV	100
66) 1,1,2-trichloroethane	13.708	97	1310894	45.952	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737682.D
 Acq On : 8 Jan 2024 2:14 AM
 Operator : AIRLAB17:RAY
 Sample : IT015-SIMSTD50
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:21 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.042	91	3900558	45.378	ppbV	99
70) 2-methylthiophene	14.108	97	3930767	52.282	ppbV	100
71) 1,3-dichloropropane	14.067	76	2029741	49.027	ppbV	99
72) 2-hexanone	14.325	43	2772593	46.848	ppbV	95
73) 3-methylthiophene	14.308	97	3876618	52.712	ppbV	100
74) dibromochloromethane	14.492	129	1832928	48.491	ppbV	99
75) 1,2-dibromoethane	14.750	107	2036837	45.464	ppbV	99
76) butyl acetate	15.000	73	499941	49.980	ppbV	93
77) octane	15.100	85	1475323	50.377	ppbV	94
78) tetrachloroethene	15.217	166	1577226	45.993	ppbV	99
79) 1,1,1,2-tetrachloroethane	15.850	131	1449876	49.828	ppbV	100
80) chlorobenzene	15.867	112	3351843	45.180	ppbV	99
81) ethylbenzene	16.225	91	4998156	45.227	ppbV	99
82) 2-ethylthiophene	16.267	97	4336328	51.208	ppbV	97
83) m+p-xylene	16.392	91	7782011	88.975	ppbV	99
84) bromoform	16.450	173	1517567	50.676	ppbV	98
85) styrene	16.717	104	3384981	44.500	ppbV	95
86) 1,1,2,2-tetrachloroethane	16.808	83	3006409	45.799	ppbV	100
87) o-xylene	16.808	91	3891081	44.592	ppbV	100
88) 1,2,3-trichloropropane	16.925	75	2430898	49.510	ppbV	100
89) nonane	17.017	43	3628710	45.427	ppbV #	90
91) isopropylbenzene	17.325	105	5198097	47.236	ppbV	95
92) bromobenzene	17.400	77	3106026	49.038	ppbV	91
93) 2-chlorotoluene	17.733	126	1595894	49.778	ppbV	99
94) n-propylbenzene	17.767	120	1773877	51.294	ppbV	86
95) 4-chlorotoluene	17.792	126	1559941	50.218	ppbV	91
96) 4-ethyl toluene	17.892	105	5371737	45.321	ppbV	96
97) 1,3,5-trimethylbenzene	17.950	105	4512922	43.843	ppbV	94
98) tert-butylbenzene	18.300	119	4643394	47.371	ppbV	97
99) 1,2,4-trimethylbenzene	18.300	105	4481403	43.110	ppbV	95
100) decane	18.383	57	3638924	49.298	ppbV	90
101) Benzyl Chloride	18.417	91	3259492	55.365	ppbV	98
102) 1,3-dichlorobenzene	18.433	146	2880467	45.751	ppbV	98
103) 1,4-dichlorobenzene	18.483	146	2868883	45.891	ppbV	98
104) sec-butylbenzene	18.525	105	6519970	47.273	ppbV	95
105) 1,2,3-trimethylbenzene	18.658	105	4159702	44.386	ppbV	98
106) p-isopropyltoluene	18.658	119	5559231	47.088	ppbV	97
107) 1,2-dichlorobenzene	18.775	146	2709362	45.741	ppbV	97
108) n-butylbenzene	19.017	91	4985731	49.707	ppbV	95
109) indan	18.833	117	4533673	47.043	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737682.D
 Acq On : 8 Jan 2024 2:14 AM
 Operator : AIRLAB17:RAY
 Sample : IT015-SIMSTD50
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:21 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

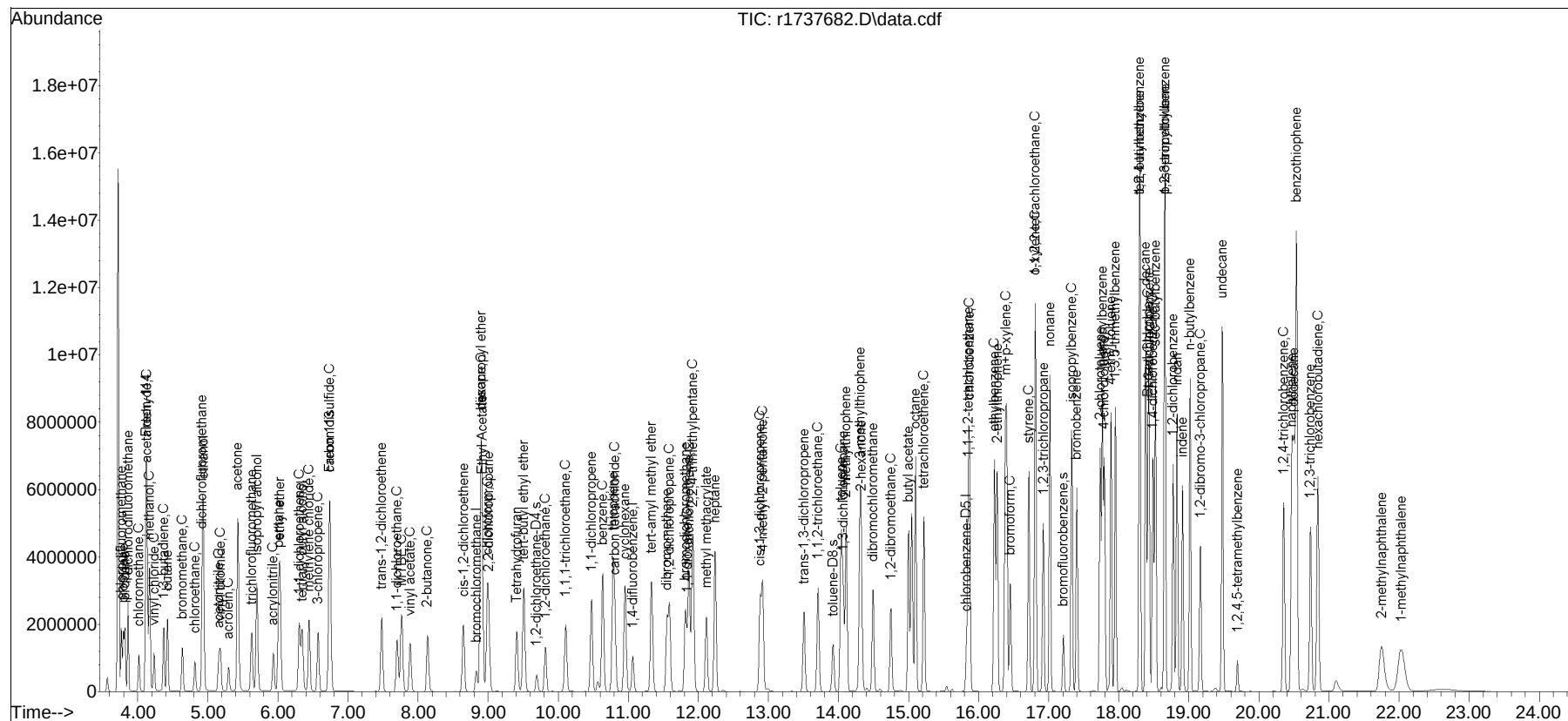
CCAL FILE : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	18.908	115	3177803	49.679	ppbV	97
111) 1,2-dibromo-3-chloropr...	19.167	75	1307381	55.129	ppbV	98
112) undecane	19.475	57	3948678	49.921	ppbV	93
113) 1,2,4,5-tetramethylben...	19.692	119	498638	49.686	ppbV	98
114) dodecane	20.500	57	3962351	50.337	ppbV	92
115) 1,2,4-trichlorobenzene	20.350	180	2112431	50.162	ppbV	98
116) naphthalene	20.467	128	5818385	57.486	ppbV	100
117) 1,2,3-trichlorobenzene	20.733	180	1876040	58.819	ppbV	98
118) benzothiophene	20.533	134	11638971	55.829	ppbV	98
119) hexachlorobutadiene	20.842	225	1742648	44.482	ppbV	99
120) 2-methylnaphthalene	21.750	142	2197674	69.278	ppbV	96
121) 1-methylnaphthalene	22.033	142	2623826	57.245	ppbV	98

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


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Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737682.D
Acq On    : 8 Jan 2024    2:14 AM
Operator  : AIRLAB17:RAY
Sample    : IT015-SIMSTD50
Misc      : WG1872080
ALS Vial  : 0    Sample Multiplier: 1
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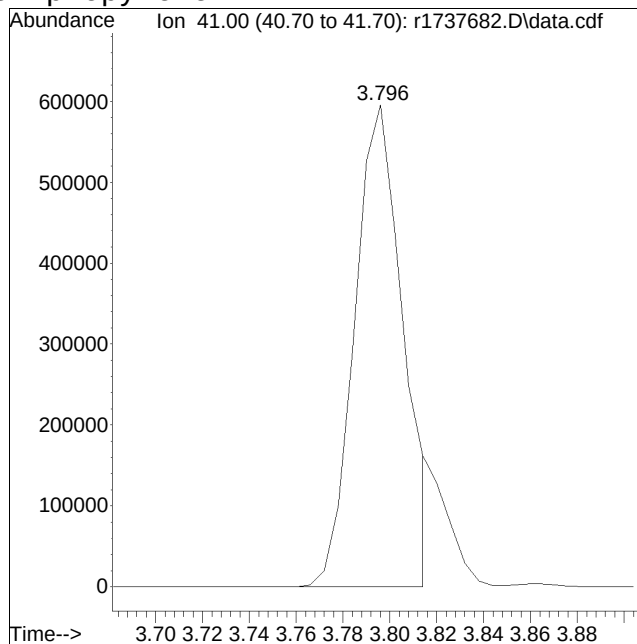
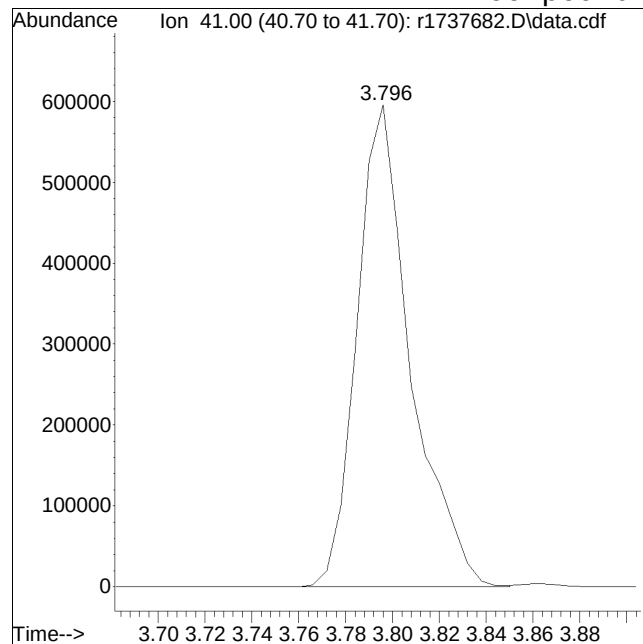
Quant Time: Jan 08 14:49:21 2024
Quant Method : 0:\Forensics\Data\AirLab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : 0:\Forensics\Data\AirLab17QMethod : TFS17_240107.M
Data File : r1737682.D Operator : AIRLAB17:RAY
Date Inj'd : 1/8/2020 0:2: 4 Instrument :
Sample : IT015-SIMSTD50 Quant Date : 1/8/2024 2:49 pm

Compound #3: propylene



Original Peak Response = 948087

Manual Peak Response = 859425 M6

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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737683.D
 Acq On : 8 Jan 2024 2:55 AM
 Operator : AIRLAB17:RAY
 Sample : IT015-LLSTD100
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:34 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	8.833	49	425403	10.000	ppbV	0.00
Standard Area = 426000			Recovery =		99.86%	
43) 1,4-difluorobenzene	11.063	114	1072129	10.000	ppbV	0.00
Standard Area = 1124227			Recovery =		95.37%	
67) chlorobenzene-D5	15.825	54	154296	10.000	ppbV	0.00
Standard Area = 154777			Recovery =		99.69%	
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.700	65	319298	9.798	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		97.98%	
69) toluene-D8	13.925	98	1096230	9.606	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		96.06%	
90) bromofluorobenzene	17.208	95	689269	9.769	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		97.69%	
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.766	51	3109919	88.527	ppbV	99
3) propylene	3.796	41	1566296M6	87.021	ppbV	
4) propane	3.820	29	2392796	94.555	ppbV	97
5) dichlorodifluoromethane	3.862	85	3207149	78.177	ppbV	98
6) chloromethane	4.018	50	1805166	82.762	ppbV	100
7) Freon-114	4.114	85	3807266	75.719	ppbV	96
8) methanol	4.168	31	4928716	470.967	ppbV	97
9) vinyl chloride	4.234	62	1965775	87.493	ppbV	100
10) 1,3-butadiene	4.372	54	1585642	82.578	ppbV	94
11) butane	4.426	43	2730859	86.823	ppbV	97
12) acetaldehyde	4.132	29	5451049	372.383	ppbV	94
13) bromomethane	4.636	94	1575329	85.027	ppbV	100
14) chloroethane	4.816	64	913799	89.318	ppbV	98
15) ethanol	4.942	31	7374358	394.802	ppbV	99
16) dichlorofluoromethane	4.924	67	3138375	88.245	ppbV	99
17) vinyl bromide	5.180	106	1530314	86.896	ppbV	98
18) acrolein	5.297	56	963448	97.243	ppbV	97
19) acetone	5.433	43	9990045	407.485	ppbV	98
20) acetonitrile	5.160	41	1610043	93.764	ppbV	97
21) trichlorofluoromethane	5.627	101	2766975	85.419	ppbV	99
22) isopropyl alcohol	5.707	45	7107817	209.157	ppbV	98
23) acrylonitrile	5.940	53	1759974	93.971	ppbV	100
24) pentane	6.013	43	3505887	94.859	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737683.D
 Acq On : 8 Jan 2024 2:55 AM
 Operator : AIRLAB17:RAY
 Sample : IT015-LLSTD100
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:34 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.033	31	4049047	109.437	ppbV	97
26) 1,1-dichloroethene	6.306	61	2560161	88.504	ppbV	99
27) tertiary butyl alcohol	6.354	59	3658338	95.416	ppbV	98
28) methylene chloride	6.450	49	2724007	100.703	ppbV	94
29) 3-chloropropene	6.576	41	2704881	85.096	ppbV	98
30) carbon disulfide	6.738	76	5936933	80.395	ppbV	99
31) Freon 113	6.744	101	3465181	82.307	ppbV	98
32) trans-1,2-dichloroethene	7.483	61	2642242	86.843	ppbV	99
33) 1,1-dichloroethane	7.700	63	3259899	84.630	ppbV	100
34) MTBE	7.767	73	4807797	85.552	ppbV	96
35) vinyl acetate	7.892	43	4582935	87.181	ppbV	98
36) 2-butanone	8.142	43	4496498	85.172	ppbV	97
37) cis-1,2-dichloroethene	8.650	61	2475368	86.188	ppbV	97
38) Ethyl Acetate	8.925	61	681530	93.266	ppbV #	45
39) chloroform	8.992	83	3428095	84.848	ppbV	99
40) Tetrahydrofuran	9.408	42	2621772	86.466	ppbV	98
41) 2,2-dichloropropane	9.008	77	2771061	90.297	ppbV	96
42) 1,2-dichloroethane	9.817	62	1915969	85.297	ppbV	99
44) hexane	8.900	57	3210632	92.028	ppbV #	67
45) diisopropyl ether	8.900	87	1790351	100.570	ppbV #	60
46) tert-butyl ethyl ether	9.508	59	5934689	99.224	ppbV	97
48) 1,1,1-trichloroethane	10.108	97	2970352	96.812	ppbV	99
49) 1,1-dichloropropene	10.477	75	3023500	92.916	ppbV	98
50) benzene	10.637	78	6982884	86.677	ppbV	97
51) thiophene	10.790	84	5487238	105.243	ppbV	96
52) carbon tetrachloride	10.810	117	2769318	92.217	ppbV	100
53) cyclohexane	10.957	56	3544449	94.932	ppbV	97
54) tert-amyl methyl ether	11.337	73	5791005	95.298	ppbV	98
55) dibromomethane	11.557	93	1968780	96.211	ppbV	99
56) 1,2-dichloropropane	11.590	63	2255941	90.459	ppbV	99
57) bromodichloromethane	11.817	83	3591950	94.120	ppbV	99
58) 1,4-dioxane	11.850	88	1485995	95.940	ppbV	99
59) trichloroethene	11.870	130	2819926	91.972	ppbV	95
60) 2,2,4-trimethylpentane	11.923	57	10109091	90.541	ppbV	99
61) methyl methacrylate	12.117	41	2546880	94.028	ppbV	99
62) heptane	12.243	43	4330797	85.570	ppbV	92
63) cis-1,3-dichloropropene	12.883	75	3696602	89.700	ppbV	99
64) 4-methyl-2-pentanone	12.917	43	5318033	87.071	ppbV	94
65) trans-1,3-dichloropropene	13.508	75	3030684	92.714	ppbV	99
66) 1,1,2-trichloroethane	13.708	97	2453866	88.412	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737683.D
 Acq On : 8 Jan 2024 2:55 AM
 Operator : AIRLAB17:RAY
 Sample : IT015-LLSTD100
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:34 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.042	91	7261022	84.065	ppbV	99
70) 2-methylthiophene	14.117	97	7223271	95.611	ppbV	99
71) 1,3-dichloropropane	14.075	76	3710062	89.182	ppbV	99
72) 2-hexanone	14.333	43	5000229	84.081	ppbV	92
73) 3-methylthiophene	14.308	97	7130361	96.487	ppbV	99
74) dibromochloromethane	14.492	129	3493781	91.985	ppbV	99
75) 1,2-dibromoethane	14.750	107	3741688	83.115	ppbV	98
76) butyl acetate	15.000	73	935012	93.025	ppbV	84
77) octane	15.100	85	2786580	94.694	ppbV	84
78) tetrachloroethene	15.217	166	2915319	84.603	ppbV	99
79) 1,1,1,2-tetrachloroethane	15.858	131	2714355	92.835	ppbV	97
80) chlorobenzene	15.875	112	5988591	80.333	ppbV	99
81) ethylbenzene	16.225	91	9182591	82.692	ppbV	98
82) 2-ethylthiophene	16.267	97	7904204	92.892	ppbV	97
83) m+p-xylene	16.400	91	14235739	161.979	ppbV	96
84) bromoform	16.450	173	2899523	96.357	ppbV	99
85) styrene	16.717	104	6071529	79.434	ppbV	94
86) 1,1,2,2-tetrachloroethane	16.808	83	5317025	80.609	ppbV	100
87) o-xylene	16.817	91	7004558	79.886	ppbV	98
88) 1,2,3-trichloropropane	16.925	75	4465352	90.507	ppbV	98
89) nonane	17.017	43	6273956	78.164	ppbV #	81
91) isopropylbenzene	17.333	105	9164740	82.880	ppbV	92
92) bromobenzene	17.400	77	5630934	88.473	ppbV #	86
93) 2-chlorotoluene	17.733	126	3001494	93.170	ppbV	94
94) n-propylbenzene	17.767	120	3328257	95.778	ppbV	75
95) 4-chlorotoluene	17.792	126	2947973	94.445	ppbV	89
96) 4-ethyl toluene	17.892	105	9472445	79.533	ppbV #	89
97) 1,3,5-trimethylbenzene	17.950	105	8043185	77.764	ppbV	92
98) tert-butylbenzene	18.300	119	7946645	80.680	ppbV	93
99) 1,2,4-trimethylbenzene	18.300	105	7721600	73.921	ppbV	93
100) decane	18.383	57	6709917	90.465	ppbV	81
101) Benzyl Chloride	18.417	91	6234359	105.386	ppbV	94
102) 1,3-dichlorobenzene	18.433	146	5280545	83.469	ppbV	96
103) 1,4-dichlorobenzene	18.492	146	5264417	83.805	ppbV	97
104) sec-butylbenzene	18.525	105	11302913	81.557	ppbV #	90
105) 1,2,3-trimethylbenzene	18.658	105	7138638	75.805	ppbV	99
106) p-isopropyltoluene	18.658	119	9455856	79.707	ppbV	91
107) 1,2-dichlorobenzene	18.775	146	5069417	85.173	ppbV	98
108) n-butylbenzene	19.017	91	9153118	90.815	ppbV	91
109) indan	18.833	117	8214985	84.831	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737683.D
 Acq On : 8 Jan 2024 2:55 AM
 Operator : AIRLAB17:RAY
 Sample : IT015-LLSTD100
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:34 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 14:48:09 2024
 Response via : Initial Calibration

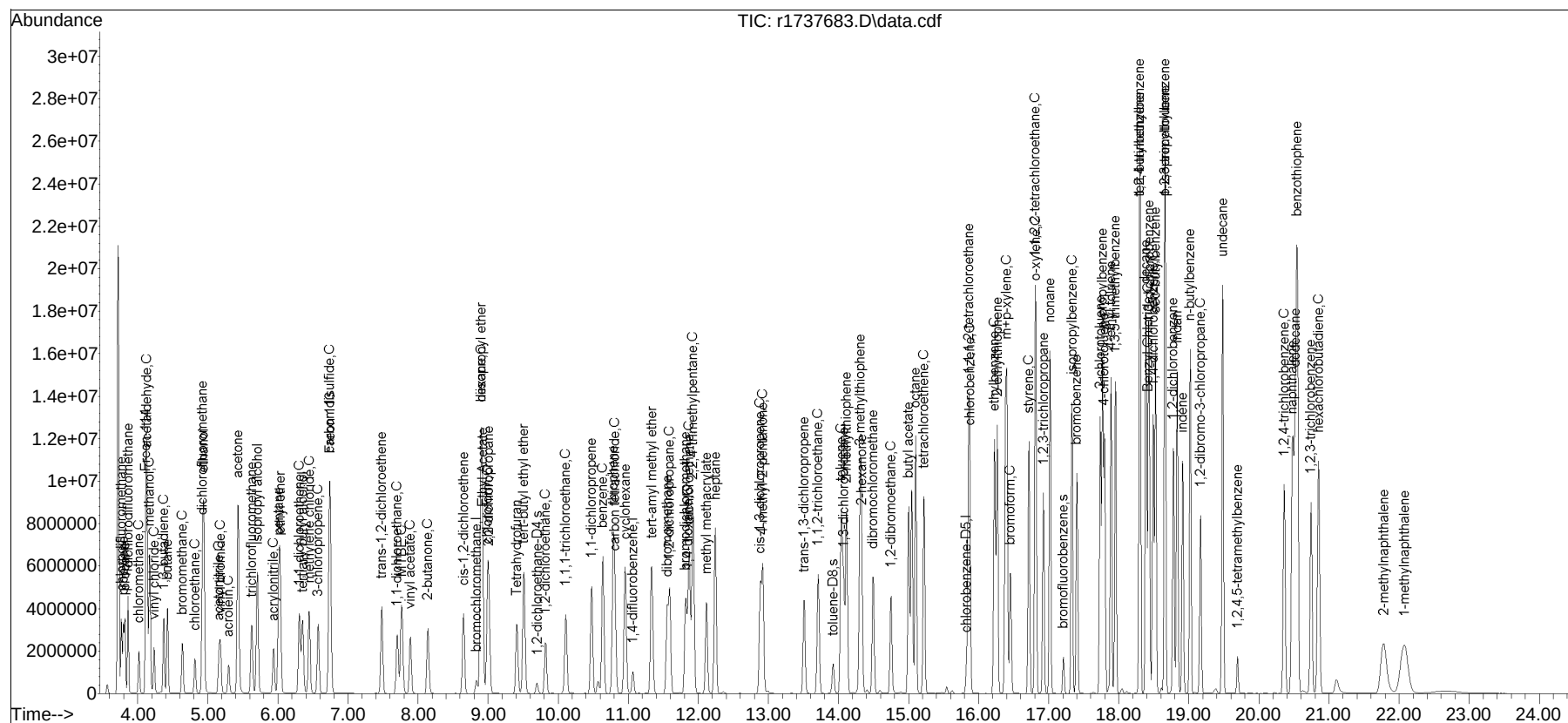
CCAL FILE : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110)	indene	18.908	115	5941083	92.431	ppbV	96
111)	1,2-dibromo-3-chloropr...	19.167	75	2401890	100.795	ppbV	93
112)	undecane	19.483	57	7370092	92.728	ppbV	85
113)	1,2,4,5-tetramethylben...	19.692	119	974441	96.629	ppbV	98
114)	dodecane	20.517	57	7333380	92.714	ppbV	84
115)	1,2,4-trichlorobenzene	20.358	180	4100180	96.894	ppbV	98
116)	naphthalene	20.475	128	10991204	108.071	ppbV	100
117)	1,2,3-trichlorobenzene	20.742	180	3612071	112.703	ppbV	99
118)	benzothiophene	20.542	134	19008220	90.738	ppbV #	93
119)	hexachlorobutadiene	20.850	225	3288378	83.534	ppbV	98
120)	2-methylnaphthalene	21.783	142	4466088	140.108	ppbV	98
121)	1-methylnaphthalene	22.075	142	5275628	114.546	ppbV	95

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

```
Data Path : 0:\Forensics\Data\AirLab17\2024\01\0107T_I\
Data File : r1737683.D
Acq On    : 8 Jan 2024    2:55 AM
Operator  : AIRLAB17:RAY
Sample    : IT015-LLSTD100
Misc      : WG1872080
ALS Vial  : 0    Sample Multiplier: 1
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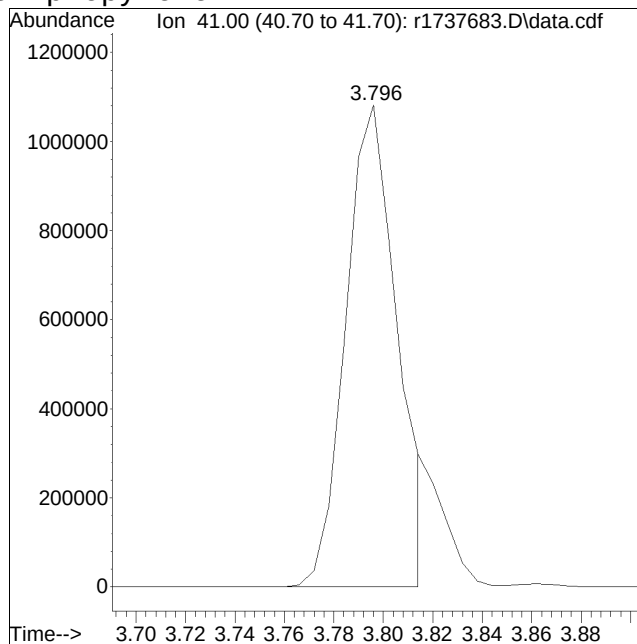
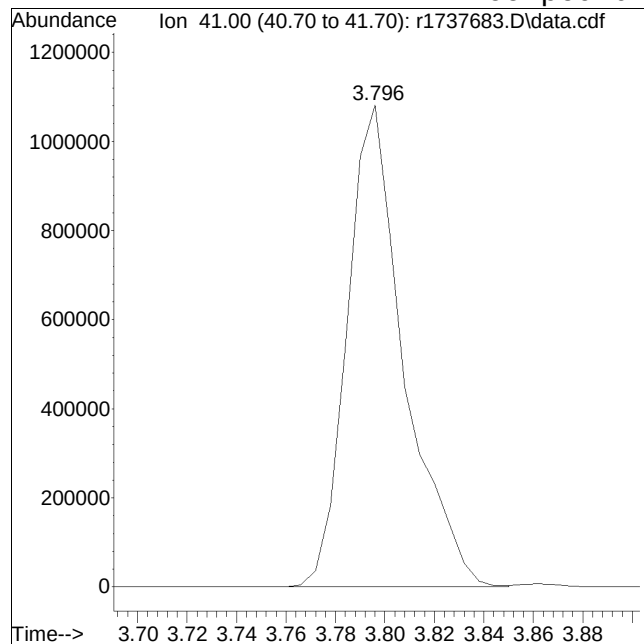
Quant Time: Jan 08 14:49:34 2024
Quant Method : 0:\Forensics\Data\AirLab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1737683.D Operator : AIRLAB17:RAY
Date Inj'd : 1/8/2020 0:2: 5 Instrument :
Sample : IT015-LLSTD100 Quant Date : 1/8/2024 2:49 pm

Compound #3: propylene



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

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737686.D
 Acq On : 8 Jan 2024 1:00 PM
 Operator : AIRLAB17:RAY
 Sample : CT015-LLSTD10.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:05:16 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	bromochloromethane	1.000	1.000	0.0	95	-0.04
2	chlorodifluoromethane	0.844	0.803	4.9	92	-0.02
3	propylene	0.471	0.484	-2.8	108	-0.02
4	propane	0.624	0.625	-0.2	100	-0.02
5	dichlorodifluoromethane	0.948	0.899	5.2	88	-0.02
6 C	chloromethane	0.504	0.443	12.1	82	-0.02
7	Freon-114	1.154	1.203	-4.2	96	-0.02
8 C	methanol	0.253	0.235	7.1	90	-0.02
9 C	vinyl chloride	0.523	0.514	1.7	92	-0.02
10 C	1,3-butadiene	0.450	0.473	-5.1	99	-0.02
11	butane	0.770	0.715	7.1	92	-0.03
13 C	bromomethane	0.429	0.439	-2.3	95	-0.03
14 C	chloroethane	0.241	0.246	-2.1	97	-0.03
15	ethanol	0.428	0.477	-11.4	103	-0.03
16	dichlorofluoromethane	0.869	0.828	4.7	94	-0.03
17 C	vinyl bromide	0.412	0.422	-2.4	96	-0.03
18 C	acrolein	0.249	0.236	5.2	96	-0.04
19	acetone	0.609	0.584	4.1	96	-0.03
20 C	acetonitrile	0.425	0.411	3.3	96	-0.03
21	trichlorofluoromethane	0.750	0.744	0.8	93	-0.04
22	isopropyl alcohol	0.791	0.742	6.2	88	-0.04
23 C	acrylonitrile	0.462	0.450	2.6	97	-0.04
24	pentane	0.910	0.855	6.0	93	-0.04
25	ethyl ether	0.953	0.893	6.3	97	-0.04
26 C	1,1-dichloroethene	0.676	0.694	-2.7	97	-0.04
27	tertiary butyl alcohol	0.921	0.962	-4.5	101	-0.04
28 C	methylene chloride	0.670	0.608	9.3	90	-0.04
29 C	3-chloropropene	0.749	0.792	-5.7	100	-0.04
30 C	carbon disulfide	1.668	1.684	-1.0	92	-0.04
31	Freon 113	0.971	0.949	2.3	91	-0.04
32	trans-1,2-dichloroethene	0.704	0.726	-3.1	96	-0.04
33 C	1,1-dichloroethane	0.889	0.858	3.5	90	-0.03
34 C	MTBE	1.313	1.340	-2.1	96	-0.04
35 C	vinyl acetate	1.208	1.118	7.5	86	-0.03
36 C	2-butanone	1.222	1.229	-0.6	94	-0.04
37	cis-1,2-dichloroethene	0.662	0.655	1.1	92	-0.03
38	Ethyl Acetate	0.170	0.186	-9.4	103	-0.04
39 C	chloroform	0.940	0.939	0.1	94	-0.03
40	Tetrahydrofuran	0.693	0.691	0.3	92	-0.03

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737686.D
 Acq On : 8 Jan 2024 1:00 PM
 Operator : AIRLAB17:RAY
 Sample : CT015-LLSTD10.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:05:16 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	2,2-dichloropropane	0.736	0.706	4.1	93	-0.04
42 C	1,2-dichloroethane	0.536	0.497	7.3	89	-0.04
43 I	1,4-difluorobenzene	1.000	1.000	0.0	96	-0.03
44 C	hexane	0.331	0.343	-3.6	102	-0.03
45	diisopropyl ether	0.174	0.168	3.4	98	-0.04
46	tert-butyl ethyl ether	0.580	0.562	3.1	97	-0.03
47 s	1,2-dichloroethane-D4	0.305	0.292	4.3	93	-0.03
48 C	1,1,1-trichloroethane	0.288	0.266	7.6	89	-0.04
49	1,1-dichloropropene	0.312	0.311	0.3	99	-0.04
50 C	benzene	0.741	0.685	7.6	88	-0.04
52 C	carbon tetrachloride	0.271	0.267	1.5	92	-0.04
53	cyclohexane	0.354	0.375	-5.9	104	-0.04
54	tert-amyl methyl ether	0.584	0.552	5.5	94	-0.04
55	dibromomethane	0.198	0.191	3.5	96	-0.03
56 C	1,2-dichloropropane	0.228	0.217	4.8	90	-0.03
57	bromodichloromethane	0.348	0.382	-9.8	103	-0.04
58 C	1,4-dioxane	0.143	0.154	-7.7	103	-0.03
59 C	trichloroethene	0.282	0.268	5.0	90	-0.04
60 C	2,2,4-trimethylpentane	1.099	1.111	-1.1	103	-0.04
61	methyl methacrylate	0.247	0.258	-4.5	98	-0.03
62	heptane	0.466	0.468	-0.4	95	-0.04
63 C	cis-1,3-dichloropropene	0.371	0.364	1.9	91	-0.03
64 C	4-methyl-2-pentanone	0.552	0.559	-1.3	94	-0.03
65	trans-1,3-dichloropropene	0.290	0.284	2.1	90	-0.03
66 C	1,1,2-trichloroethane	0.253	0.241	4.7	90	-0.04
67 I	chlorobenzene-D5	1.000	1.000	0.0	97	-0.03
68 C	toluene	5.498	5.181	5.8	90	-0.03
69 s	toluene-D8	7.414	7.086	4.4	93	-0.03
71	1,3-dichloropropane	2.760	2.626	4.9	95	-0.03
72	2-hexanone	3.566	3.626	-1.7	92	-0.03
74	dibromochloromethane	2.321	2.717	-17.1	107	-0.03
75 C	1,2-dibromoethane	2.826	2.699	4.5	90	-0.03
76	butyl acetate	0.635	0.607	4.4	91	-0.03
77	octane	1.996	1.906	4.5	97	-0.03
78 C	tetrachloroethene	2.195	2.063	6.0	90	-0.03
79	1,1,1,2-tetrachloroethane	1.906	1.884	1.2	97	-0.02
80 C	chlorobenzene	4.722	4.490	4.9	90	-0.03

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737686.D
 Acq On : 8 Jan 2024 1:00 PM
 Operator : AIRLAB17:RAY
 Sample : CT015-LLSTD10.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:05:16 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81 C	ethylbenzene	6.927	6.606	4.6	89	-0.03
83 C	m+p-xylene	5.488	5.272	3.9	90	-0.03
84 C	bromoform	1.794	2.119	-18.1	106	-0.03
85 C	styrene	4.644	4.530	2.5	89	-0.02
86 C	1,1,2,2-tetrachloroethane	4.138	4.189	-1.2	95	-0.02
87 C	o-xylene	5.492	5.364	2.3	92	-0.02
88	1,2,3-trichloropropane	3.301	3.193	3.3	97	-0.03
89	nonane	5.239	4.847	7.5	91	-0.02
90 s	bromofluorobenzene	4.540	4.199	7.5	89	-0.02
91 C	isopropylbenzene	7.347	7.322	0.3	99	-0.02
92	bromobenzene	4.250	4.204	1.1	99	-0.03
93	2-chlorotoluene	2.139	2.048	4.3	95	-0.02
94	n-propylbenzene	2.332	2.256	3.3	98	-0.02
95	4-chlorotoluene	2.046	2.014	1.6	97	-0.03
96	4-ethyl toluene	7.571	7.824	-3.3	99	-0.02
97	1,3,5-trimethylbenzene	6.529	6.391	2.1	93	-0.02
98	tert-butylbenzene	6.472	6.392	1.2	97	-0.03
99	1,2,4-trimethylbenzene	6.497	6.307	2.9	91	-0.03
100	decane	4.934	4.812	2.5	97	-0.02
101 C	Benzyl Chloride	3.616	3.966	-9.7	101	-0.02
102	1,3-dichlorobenzene	3.907	3.931	-0.6	93	-0.02
103 C	1,4-dichlorobenzene	3.804	3.803	0.0	91	-0.03
104	sec-butylbenzene	9.210	9.022	2.0	98	-0.02
106	p-isopropyltoluene	7.833	7.112	9.2	90	-0.03
107	1,2-dichlorobenzene	3.724	3.613	3.0	91	-0.02
108	n-butylbenzene	6.717	6.738	-0.3	100	-0.02
111 C	1,2-dibromo-3-chloropropane	1.541	1.593	-3.4	100	-0.03
112	undecane	5.267	5.175	1.7	98	-0.02
114	dodecane	5.065	4.919	2.9	93	0.00
115 C	1,2,4-trichlorobenzene	2.469	2.312	6.4	82	-0.03
116	naphthalene	6.859	6.720	2.0	99	-0.03
117	1,2,3-trichlorobenzene	2.150	2.149	0.0	101	-0.02
119 C	hexachlorobutadiene	2.381	2.188	8.1	83	-0.02

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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737686.D
 Acq On : 8 Jan 2024 1:00 PM
 Operator : AIRLAB17:RAY
 Sample : CT015-LLSTD10.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:05:16 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default-ICV-AP2 - All compounds listed

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

Internal Standards						
1) bromochloromethane	8.800	49	403285	10.000	ppbV	-0.04
Standard Area = 426000			Recovery =		94.67%	
43) 1,4-difluorobenzene	11.037	114	1083333	10.000	ppbV	-0.03
Standard Area = 1124227			Recovery =		96.36%	
67) chlorobenzene-D5	15.808	54	150636	10.000	ppbV	-0.03
Standard Area = 154777			Recovery =		97.32%	
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.667	65	316625	9.585	ppbV	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery =		95.85%	
69) toluene-D8	13.892	98	1067437	9.558	ppbV	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery =		95.58%	
90) bromofluorobenzene	17.192	95	632543	9.249	ppbV	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery =		92.49%	
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.742	51	323965	9.518	ppbV	100
3) propylene	3.772	41	195247M6	10.270	ppbV	
4) propane	3.796	29	252250	10.026	ppbV	96
5) dichlorodifluoromethane	3.838	85	362409	9.481	ppbV	98
6) chloromethane	3.994	50	178482	8.789	ppbV	99
7) Freon-114	4.096	85	485313	10.426	ppbV	97
8) methanol	4.144	31	473262	46.397	ppbV	96
9) vinyl chloride	4.210	62	207226	9.833	ppbV	100
10) 1,3-butadiene	4.348	54	190921	10.523	ppbV	98
11) butane	4.396	43	288214	9.282	ppbV	98
13) bromomethane	4.612	94	177123	10.233	ppbV	99
14) chloroethane	4.792	64	99386	10.206	ppbV	97
15) ethanol	4.900	31	962420	55.759	ppbV	93
16) dichlorofluoromethane	4.894	67	333873	9.522	ppbV	99
17) vinyl bromide	5.150	106	170030	10.238	ppbV	99
18) acrolein	5.267	56	95371	9.511	ppbV	98
19) acetone	5.400	43	1178174	47.984	ppbV	98
20) acetonitrile	5.127	41	165631	9.661	ppbV	96
21) trichlorofluoromethane	5.593	101	300230	9.925	ppbV	100
22) isopropyl alcohol	5.663	45	748395	23.457	ppbV	98
23) acrylonitrile	5.903	53	181617	9.751	ppbV	99
24) pentane	5.983	43	344956	9.401	ppbV	98
25) ethyl ether	6.003	31	360265	9.374	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737686.D
 Acq On : 8 Jan 2024 1:00 PM
 Operator : AIRLAB17:RAY
 Sample : CT015-LLSTD10.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:05:16 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) 1,1-dichloroethene	6.276	61	280056	10.267	ppbV	99
27) tertiary butyl alcohol	6.312	59	387829	10.442	ppbV	97
28) methylene chloride	6.414	49	245027	9.063	ppbV	99
29) 3-chloropropene	6.546	41	319284	10.576	ppbV	98
30) carbon disulfide	6.708	76	679114	10.094	ppbV	99
31) Freon 113	6.714	101	382658	9.768	ppbV	99
32) trans-1,2-dichloroethene	7.450	61	292740	10.314	ppbV	98
33) 1,1-dichloroethane	7.675	63	346082	9.655	ppbV	100
34) MTBE	7.733	73	540392	10.204	ppbV	98
35) vinyl acetate	7.858	43	450725	9.249	ppbV	98
36) 2-butanone	8.108	43	495725	10.056	ppbV	100
37) cis-1,2-dichloroethene	8.617	61	264349	9.902	ppbV	96
38) Ethyl Acetate	8.883	61	75056	10.943	ppbV	97
39) chloroform	8.958	83	378555	9.988	ppbV	97
40) Tetrahydrofuran	9.383	42	278665	9.965	ppbV	99
41) 2,2-dichloropropane	8.975	77	284892	9.592	ppbV	98
42) 1,2-dichloroethane	9.783	62	200575	9.286	ppbV	99
44) hexane	8.875	57	372102	10.383	ppbV	97
45) diisopropyl ether	8.867	87	182469	9.679	ppbV	85
46) tert-butyl ethyl ether	9.483	59	608378	9.676	ppbV	99
48) 1,1,1-trichloroethane	10.075	97	287759	9.221	ppbV	98
49) 1,1-dichloropropene	10.443	75	337054	9.962	ppbV	98
50) benzene	10.603	78	742257	9.245	ppbV	99
52) carbon tetrachloride	10.777	117	289628	9.856	ppbV	98
53) cyclohexane	10.923	56	406538	10.608	ppbV	96
54) tert-amyl methyl ether	11.303	73	597817	9.454	ppbV	98
55) dibromomethane	11.523	93	207009	9.654	ppbV	98
56) 1,2-dichloropropane	11.557	63	235586	9.548	ppbV	98
57) bromodichloromethane	11.783	83	413347	10.977	ppbV	98
58) 1,4-dioxane	11.823	88	167100	10.815	ppbV	100
59) trichloroethene	11.837	130	290008	9.494	ppbV	98
60) 2,2,4-trimethylpentane	11.890	57	1203775	10.113	ppbV	97
61) methyl methacrylate	12.090	41	279510	10.440	ppbV	99
62) heptane	12.210	43	506662	10.039	ppbV	94
63) cis-1,3-dichloropropene	12.858	75	393882	9.796	ppbV	98
64) 4-methyl-2-pentanone	12.892	43	605143	10.115	ppbV	96
65) trans-1,3-dichloropropene	13.483	75	307834	9.794	ppbV	99
66) 1,1,2-trichloroethane	13.675	97	260748	9.511	ppbV	97
68) toluene	14.008	91	780373	9.423	ppbV	99
71) 1,3-dichloropropane	14.042	76	395505	9.511	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737686.D
 Acq On : 8 Jan 2024 1:00 PM
 Operator : AIRLAB17:RAY
 Sample : CT015-LLSTD10.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:05:16 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 2-hexanone	14.300	43	546243	10.169	ppbV	96
74) dibromochloromethane	14.467	129	409238	11.704	ppbV	97
75) 1,2-dibromoethane	14.725	107	406610	9.553	ppbV	99
76) butyl acetate	14.975	73	91456	9.565	ppbV	89
77) octane	15.075	85	287071	9.548	ppbV	94
78) tetrachloroethene	15.192	166	310703	9.396	ppbV	99
79) 1,1,1,2-tetrachloroethane	15.833	131	283765	9.883	ppbV	99
80) chlorobenzene	15.850	112	676338	9.508	ppbV	99
81) ethylbenzene	16.200	91	995067	9.537	ppbV	99
83) m+p-xylene	16.367	91	1588312	19.212	ppbV	99
84) bromoform	16.425	173	319238	11.810	ppbV	100
85) styrene	16.692	104	682335	9.754	ppbV	97
86) 1,1,2,2-tetrachloroethane	16.783	83	631076	10.123	ppbV	99
87) o-xylene	16.792	91	807975	9.766	ppbV	98
88) 1,2,3-trichloropropane	16.900	75	480973	9.672	ppbV	99
89) nonane	17.000	43	730159	9.251	ppbV	94
91) isopropylbenzene	17.308	105	1102908	9.965	ppbV	100
92) bromobenzene	17.383	77	633276	9.891	ppbV	98
93) 2-chlorotoluene	17.717	126	308568	9.574	ppbV	89
94) n-propylbenzene	17.742	120	339904	9.674	ppbV	97
95) 4-chlorotoluene	17.775	126	303451	9.848	ppbV	98
96) 4-ethyl toluene	17.867	105	1178516	10.334	ppbV	99
97) 1,3,5-trimethylbenzene	17.933	105	962666	9.788	ppbV	100
98) tert-butylbenzene	18.275	119	962922	9.876	ppbV	99
99) 1,2,4-trimethylbenzene	18.275	105	950113	9.708	ppbV	93
100) decane	18.367	57	724930	9.753	ppbV	96
101) Benzyl Chloride	18.400	91	597440	10.969	ppbV	99
102) 1,3-dichlorobenzene	18.408	146	592151	10.063	ppbV	99
103) 1,4-dichlorobenzene	18.467	146	572936	9.998	ppbV	98
104) sec-butylbenzene	18.500	105	1359059	9.796	ppbV	99
106) p-isopropyltoluene	18.633	119	1071248	9.079	ppbV	97
107) 1,2-dichlorobenzene	18.758	146	544177	9.700	ppbV	96
108) n-butylbenzene	19.000	91	1014915	10.030	ppbV	98
111) 1,2-dibromo-3-chloropr...	19.142	75	239991	10.339	ppbV	95
112) undecane	19.467	57	779601	9.825	ppbV	96
114) dodecane	20.508	57	740986	9.712	ppbV	96
115) 1,2,4-trichlorobenzene	20.333	180	348300	9.365	ppbV	99
116) naphthalene	20.450	128	1012212	9.796	ppbV	99
117) 1,2,3-trichlorobenzene	20.725	180	323689	9.995	ppbV	99
119) hexachlorobutadiene	20.833	225	329563	9.189	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
 Data File : r1737686.D
 Acq On : 8 Jan 2024 1:00 PM
 Operator : AIRLAB17:RAY
 Sample : CT015-LLSTD10.0
 Misc : WG1872080
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:05:16 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

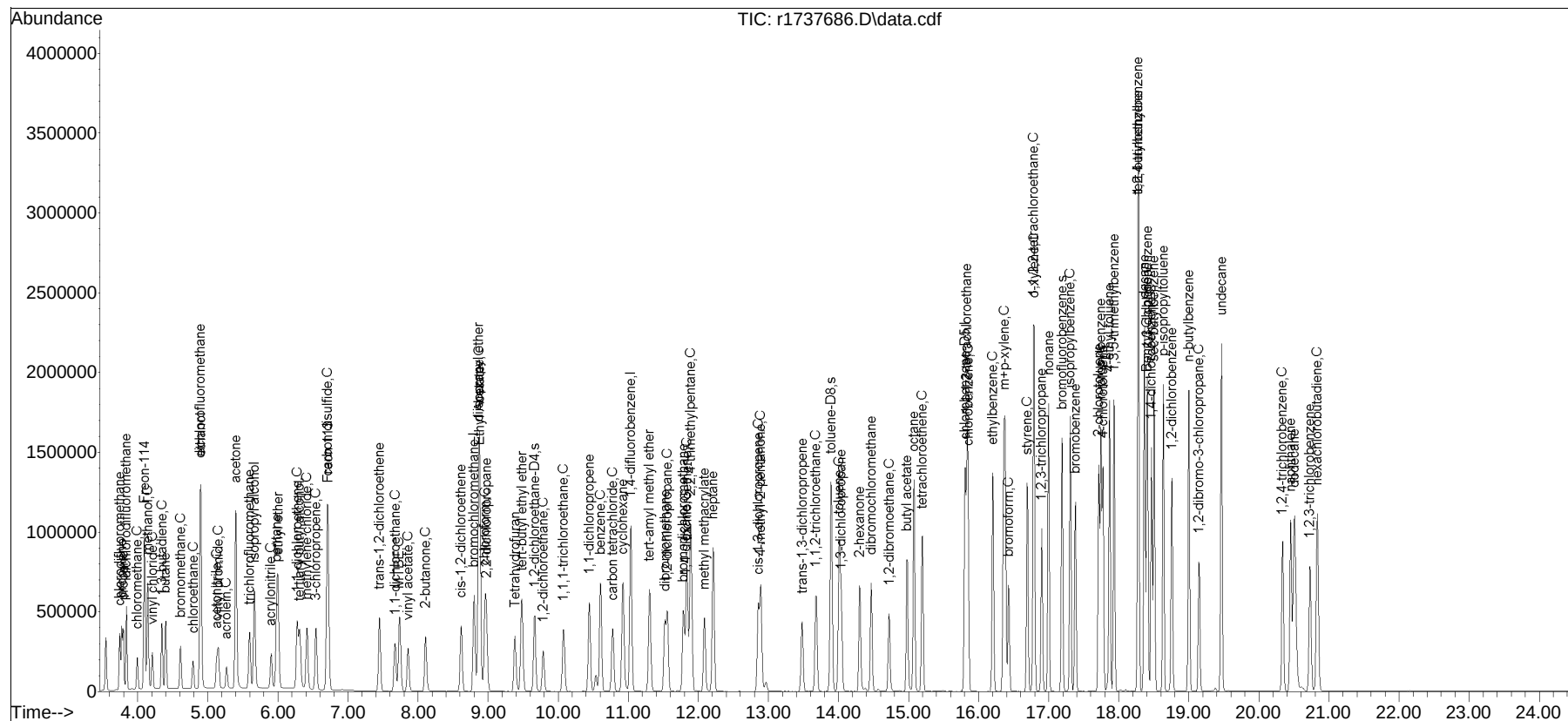
CCAL FILE : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
 Sub List : Default-ICV-AP2 - All compounds listed

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

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

```
Data Path   : 0:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File  : r1737686.D
Acq On     :  8 Jan 2024    1:00 PM
Operator   : AIRLAB17:RAY
Sample     : CT015-LLSTD10.0
Misc       : WG1872080
ALS Vial   : 0    Sample Multiplier: 1
```

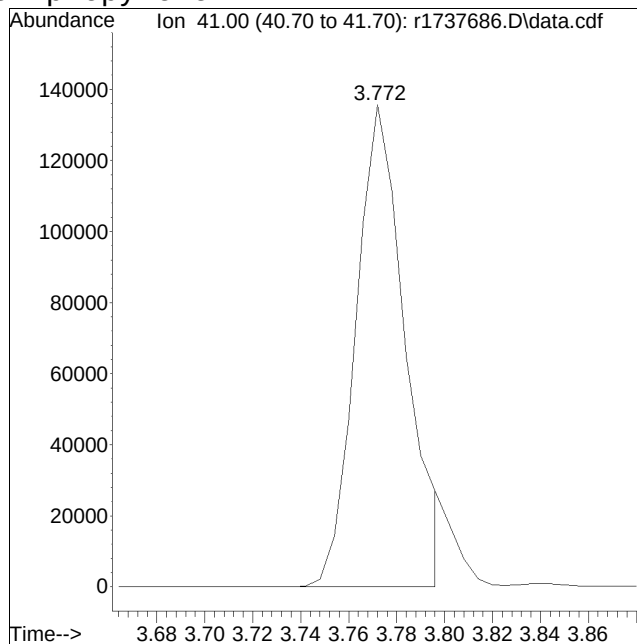
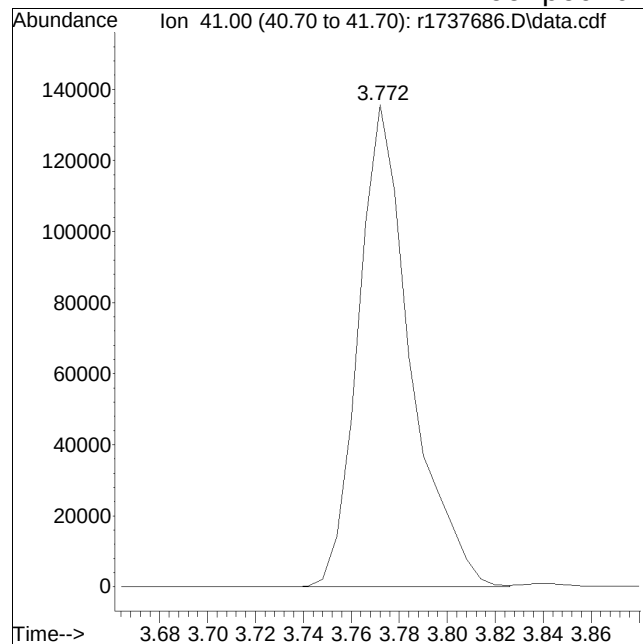
Quant Time: Jan 08 15:05:16 2024
Quant Method : 0:\Forensics\Data\AirLab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1737686.D Operator : AIRLAB17:RAY
Date Inj'd : 1/8/2020 0:1: 0 Instrument :
Sample : CT015-LLSTD10.0 Quant Date : 1/8/2024 3:05 pm

Compound #3: propylene



Original Peak Response = 205548

Manual Peak Response = 195247 M6

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

Continuing Calibration

Calibration Verification Summary

Form 7

Air Volatiles

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRLAB15
 Lab File ID : R1542413
 Sample No : WG1880230-2
 Channel :

Lab Number : L2403288
 Project Number : BK-001
 Calibration Date : 01/31/24 11:37
 Init. Calib. Date(s) : 11/20/23 11/21/23
 Init. Calib. Times : 21:44 02:20

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	109	.05
chlorodifluoromethane	0.963	0.98	-	-1.8	30	115	.04
propylene	0.534	0.453	-	15.2	30	96	.04
propane	0.698	0.76	-	-8.9	30	117	.04
dichlorodifluoromethane	1.139	1.163	-	-2.1	30	111	.04
chloromethane	0.428	0.491	-	-14.7	30	127	.04
Freon-114	1.103	1.173	-	-6.3	30	114	.04
methanol	0.228	0.277	-	-21.5	30	128	.04
vinyl chloride	0.625	0.676	-	-8.2	30	116	.04
1,3-butadiene	0.419	0.464	-	-10.7	30	122	.04
butane	0.753	0.895	-	-18.9	30	139	.04
bromomethane	0.5	0.501	-	-0.2	30	107	.04
chloroethane	0.307	0.32	-	-4.2	30	116	.04
ethanol	0.376	0.455	-	-21	30	118	.05
dichlorofluoromethane	0.989	1.125	-	-13.8	30	129	.04
vinyl bromide	0.462	0.473	-	-2.4	30	116	.04
acrolein	0.232	0.24	-	-3.4	30	111	.05
acetone	0.564	0.719	-	-27.5	30	144	.05
acetonitrile	0.477	0.548	-	-14.9	30	135	.04
trichlorofluoromethane	0.851	0.97	-	-14	30	122	.05
isopropyl alcohol	0.711	0.792	-	-11.4	30	129	.05
acrylonitrile	0.507	0.467	-	7.9	30	105	.05
pentane	1.206	1.208	-	-0.2	30	111	.05
ethyl ether	1.172	1.212	-	-3.4	30	112	.05
1,1-dichloroethene	0.981	0.949	-	3.3	30	107	.05
tertiary butyl alcohol	1.205	1.045	-	13.3	30	99	.05
methylene chloride	0.771	0.712	-	7.7	30	99	.05
3-chloropropene	0.869	0.824	-	5.2	30	107	.05
carbon disulfide	1.811	1.633	-	9.8	30	99	.05
Freon 113	1.116	1.013	-	9.2	30	102	.05
trans-1,2-dichloroethene	0.982	0.927	-	5.6	30	108	.05
1,1-dichloroethane	1.238	1.158	-	6.5	30	105	.05
MTBE	1.494	1.278	-	14.5	30	96	.05
vinyl acetate	1.261	1.191	-	5.6	30	109	.05
2-butanone	1.329	1.302	-	2	30	111	.05
cis-1,2-dichloroethene	0.937	0.888	-	5.2	30	104	.05
Ethyl Acetate	0.248	0.233	-	6	30	106	.05
chloroform	1.226	1.104	-	10	30	96	.05
Tetrahydrofuran	0.83	0.793	-	4.5	30	108	.05
2,2-dichloropropane	0.834	0.779	-	6.6	30	101	.05
1,2-dichloroethane	0.743	0.793	-	-6.7	30	118	.05
1,4-difluorobenzene	1	1	-	0	30	100	.05
hexane	0.437	0.489	-	-11.9	30	109	.05

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Air Volatiles

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRLAB15
 Lab File ID : R1542413
 Sample No : WG1880230-2
 Channel :

Lab Number : L2403288
 Project Number : BK-001
 Calibration Date : 01/31/24 11:37
 Init. Calib. Date(s) : 11/20/23 11/21/23
 Init. Calib. Times : 21:44 02:20

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
diisopropyl ether	0.221	0.203	-	8.1	30	90	.05
tert-butyl ethyl ether	0.75	0.731	-	2.5	30	96	.04
1,1,1-trichloroethane	0.323	0.363	-	-12.4	30	109	.05
1,1-dichloropropene	0.325	0.323	-	0.6	30	98	.05
benzene	0.809	0.785	-	3	30	94	.05
carbon tetrachloride	0.301	0.325	-	-8	30	100	.05
cyclohexane	0.477	0.511	-	-7.1	30	107	.05
tert-amyl methyl ether	0.607	0.539	-	11.2	30	88	.05
dibromomethane	0.235	0.243	-	-3.4	30	103	.05
1,2-dichloropropane	0.294	0.302	-	-2.7	30	102	.05
bromodichloromethane	0.404	0.429	-	-6.2	30	101	.05
1,4-dioxane	0.187	0.179	-	4.3	30	94	.05
trichloroethene	0.319	0.301	-	5.6	30	92	.05
2,2,4-trimethylpentane	1.456	1.618	-	-11.1	30	108	.05
methyl methacrylate	0.277	0.313	-	-13	30	111	.05
heptane	0.481	0.538	-	-11.9	30	111	.05
cis-1,3-dichloropropene	0.377	0.365	-	3.2	30	89	.05
4-methyl-2-pentanone	0.545	0.608	-	-11.6	30	108	.05
trans-1,3-dichloropropene	0.301	0.296	-	1.7	30	89	.05
1,1,2-trichloroethane	0.292	0.29	-	0.7	30	98	.05
chlorobenzene-D5	1	1	-	0	30	113	.04
toluene	5.734	4.971	-	13.3	30	98	.04
1,3-dichloropropane	2.549	2.192	-	14	30	99	.04
2-hexanone	3.051	2.94	-	3.6	30	110	.04
dibromochloromethane	2.23	2.096	-	6	30	104	.04
1,2-dibromoethane	2.593	2.19	-	15.5	30	96	.04
butyl acetate	0.626	0.52	-	16.9	30	94	.04
octane	2.251	1.819	-	19.2	30	93	.03
tetrachloroethene	2.301	1.721	-	25.2	30	85	.04
1,1,1,2-tetrachloroethane	1.812	1.587	-	12.4	30	99	.04
chlorobenzene	4.481	3.619	-	19.2	30	90	.03
ethylbenzene	7.343	6.374	-	13.2	30	97	.03
m+p-xylene	5.792	5.259	-	9.2	30	100	.03
bromoform	1.938	1.696	-	12.5	30	95	.03
styrene	4.694	3.821	-	18.6	30	91	.03
1,1,2,2-tetrachloroethane	4.357	3.76	-	13.7	30	90	.03
o-xylene	5.778	5.363	-	7.2	30	99	.02
1,2,3-trichloropropane	3.231	2.797	-	13.4	30	99	.03
nonane	4.585	4.325	-	5.7	30	107	.03
isopropylbenzene	7.342	6.261	-	14.7	30	98	.03
bromobenzene	4.272	3.596	-	15.8	30	95	.03
2-chlorotoluene	2.221	1.785	-	19.6	30	91	.03
n-propylbenzene	2.613	2.089	-	20.1	30	89	.02

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Air Volatiles

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRLAB15
 Lab File ID : R1542413
 Sample No : WG1880230-2
 Channel :

Lab Number : L2403288
 Project Number : BK-001
 Calibration Date : 01/31/24 11:37
 Init. Calib. Date(s) : 11/20/23 11/21/23
 Init. Calib. Times : 21:44 02:20

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4-chlorotoluene	2.232	1.758	-	21.2	30	89	.03
4-ethyl toluene	7.753	6.981	-	10	30	102	.03
1,3,5-trimethylbenzene	7.201	6.529	-	9.3	30	93	.03
tert-butylbenzene	7.043	5.812	-	17.5	30	89	.03
1,2,4-trimethylbenzene	6.485	5.892	-	9.1	30	93	.03
decane	6.136	5.899	-	3.9	30	103	.02
Benzyl Chloride	3.901	3.548	-	9	30	93	.03
1,3-dichlorobenzene	4.602	3.867	-	16	30	90	.03
1,4-dichlorobenzene	4.546	3.765	-	17.2	30	89	.03
sec-butylbenzene	9.447	8.386	-	11.2	30	98	.03
p-isopropyltoluene	7.897	7.179	-	9.1	30	107	.03
1,2-dichlorobenzene	4.329	3.646	-	15.8	30	88	.03
n-butylbenzene	7.571	7.06	-	6.7	30	98	.03
1,2-dibromo-3-chloropropan	1.54	1.498	-	2.7	30	102	.03
undecane	6.581	6.594	-	-0.2	30	100	.03
dodecane	6.085	6.829	-	-12.2	30	98	.03
1,2,4-trichlorobenzene	3.363	2.776	-	17.5	30	77	.04
naphthalene	8.774	7.848	-	10.6	30	88	.03
1,2,3-trichlorobenzene	2.982	2.588	-	13.2	30	85	.03
hexachlorobutadiene	2.852	2.326	-	18.4	30	78	.03

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Air Volatiles

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRLAB17
 Lab File ID : R1738297
 Sample No : WG1880708-2
 Channel :

Lab Number : L2403288
 Project Number : BK-001
 Calibration Date : 02/01/24 14:40
 Init. Calib. Date(s) : 01/07/24 01/08/24
 Init. Calib. Times : 22:14 02:55

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	80	0
chlorodifluoromethane	0.844	0.812	-	3.8	30	79	0
propylene	0.471	0.42	-	10.8	30	80	0
propane	0.624	0.54	-	13.5	30	73	0
dichlorodifluoromethane	0.948	1.059	-	-11.7	30	88	0
chloromethane	0.504	0.536	-	-6.3	30	84	0
Freon-114	1.154	1.227	-	-6.3	30	84	0
methanol	0.253	0.236	-	6.7	30	77	0
vinyl chloride	0.523	0.527	-	-0.8	30	80	0
1,3-butadiene	0.45	0.426	-	5.3	30	76	0
butane	0.77	0.759	-	1.4	30	83	0
bromomethane	0.429	0.44	-	-2.6	30	81	0
chloroethane	0.241	0.24	-	0.4	30	80	0
ethanol	0.428	0.412	-	3.7	30	75	0
dichlorofluoromethane	0.869	0.897	-	-3.2	30	86	0
vinyl bromide	0.412	0.425	-	-3.2	30	83	0
acrolein	0.249	0.214	-	14.1	30	74	0
acetone	0.609	0.608	-	0.2	30	85	0
acetonitrile	0.425	0.424	-	0.2	30	85	0
trichlorofluoromethane	0.75	0.835	-	-11.3	30	88	0
isopropyl alcohol	0.791	0.748	-	5.4	30	75	0
acrylonitrile	0.462	0.412	-	10.8	30	75	0
pentane	0.91	0.892	-	2	30	83	0
ethyl ether	0.953	0.785	-	17.6	30	73	0
1,1-dichloroethene	0.676	0.683	-	-1	30	81	0
tertiary butyl alcohol	0.921	0.74	-	19.7	30	66	0
methylene chloride	0.67	0.726	-	-8.4	30	92	0
3-chloropropene	0.749	0.762	-	-1.7	30	82	0
carbon disulfide	1.668	1.608	-	3.6	30	75	0
Freon 113	0.971	1.048	-	-7.9	30	85	0
trans-1,2-dichloroethene	0.704	0.739	-	-5	30	83	0
1,1-dichloroethane	0.889	0.971	-	-9.2	30	86	0
MTBE	1.313	1.17	-	10.9	30	71	0
vinyl acetate	1.208	1.248	-	-3.3	30	81	0
2-butanone	1.222	1.284	-	-5.1	30	83	0
cis-1,2-dichloroethene	0.662	0.705	-	-6.5	30	84	0
Ethyl Acetate	0.17	0.173	-	-1.8	30	81	0
chloroform	0.94	0.993	-	-5.6	30	84	0
Tetrahydrofuran	0.693	0.74	-	-6.8	30	84	0
2,2-dichloropropane	0.736	0.685	-	6.9	30	76	0
1,2-dichloroethane	0.536	0.602	-	-12.3	30	92	0
1,4-difluorobenzene	1	1	-	0	30	82	0
hexane	0.331	0.317	-	4.2	30	80	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Air Volatiles

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRLAB17
 Lab File ID : R1738297
 Sample No : WG1880708-2
 Channel :

Lab Number : L2403288
 Project Number : BK-001
 Calibration Date : 02/01/24 14:40
 Init. Calib. Date(s) : 01/07/24 01/08/24
 Init. Calib. Times : 22:14 02:55

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
diisopropyl ether	0.174	0.15	-	13.8	30	74	0
tert-butyl ethyl ether	0.58	0.494	-	14.8	30	72	0
1,1,1-trichloroethane	0.288	0.307	-	-6.6	30	88	0
1,1-dichloropropene	0.312	0.286	-	8.3	30	77	0
benzene	0.741	0.696	-	6.1	30	76	0
carbon tetrachloride	0.271	0.302	-	-11.4	30	88	0
cyclohexane	0.354	0.333	-	5.9	30	78	0
tert-amyl methyl ether	0.584	0.475	-	18.7	30	69	0
dibromomethane	0.198	0.206	-	-4	30	88	0
1,2-dichloropropane	0.228	0.246	-	-7.9	30	87	0
bromodichloromethane	0.348	0.361	-	-3.7	30	83	0
1,4-dioxane	0.143	0.14	-	2.1	30	79	0
trichloroethene	0.282	0.297	-	-5.3	30	85	0
2,2,4-trimethylpentane	1.099	1.015	-	7.6	30	80	0
methyl methacrylate	0.247	0.27	-	-9.3	30	87	0
heptane	0.466	0.48	-	-3	30	83	0
cis-1,3-dichloropropene	0.371	0.34	-	8.4	30	72	0
4-methyl-2-pentanone	0.552	0.575	-	-4.2	30	82	0
trans-1,3-dichloropropene	0.29	0.268	-	7.6	30	72	0
1,1,2-trichloroethane	0.253	0.268	-	-5.9	30	85	0
chlorobenzene-D5	1	1	-	0	30	84	0
toluene	5.498	5.511	-	-0.2	30	83	0
1,3-dichloropropane	2.76	2.511	-	9	30	78	0
2-hexanone	3.566	3.707	-	-4	30	81	0
dibromochloromethane	2.321	2.602	-	-12.1	30	89	0
1,2-dibromoethane	2.826	2.867	-	-1.5	30	83	0
butyl acetate	0.635	0.56	-	11.8	30	72	0
octane	1.996	1.779	-	10.9	30	79	0
tetrachloroethene	2.195	2.179	-	0.7	30	82	0
1,1,1,2-tetrachloroethane	1.906	1.956	-	-2.6	30	87	0
chlorobenzene	4.722	4.556	-	3.5	30	79	0
ethylbenzene	6.927	7.132	-	-3	30	83	0
m+p-xylene	5.488	5.66	-	-3.1	30	84	0
bromoform	1.794	2.001	-	-11.5	30	86	0
styrene	4.644	4.414	-	5	30	75	0
1,1,2,2-tetrachloroethane	4.138	4.145	-	-0.2	30	82	0
o-xylene	5.492	5.646	-	-2.8	30	84	0
1,2,3-trichloropropane	3.301	2.948	-	10.7	30	78	0
nonane	5.239	4.862	-	7.2	30	79	0
isopropylbenzene	7.347	6.783	-	7.7	30	80	0
bromobenzene	4.25	3.731	-	12.2	30	76	0
2-chlorotoluene	2.139	1.996	-	6.7	30	80	0
n-propylbenzene	2.332	2.211	-	5.2	30	83	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Air Volatiles

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRLAB17
 Lab File ID : R1738297
 Sample No : WG1880708-2
 Channel :

Lab Number : L2403288
 Project Number : BK-001
 Calibration Date : 02/01/24 14:40
 Init. Calib. Date(s) : 01/07/24 01/08/24
 Init. Calib. Times : 22:14 02:55

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4-chlorotoluene	2.046	1.954	-	4.5	30	81	0
4-ethyl toluene	7.571	7.209	-	4.8	30	79	0
1,3,5-trimethylbenzene	6.529	6.306	-	3.4	30	79	0
tert-butylbenzene	6.472	6.031	-	6.8	30	79	0
1,2,4-trimethylbenzene	6.497	6.289	-	3.2	30	78	0
decane	4.934	4.435	-	10.1	30	78	0
Benzyl Chloride	3.616	3.135	-	13.3	30	69	0
1,3-dichlorobenzene	3.907	3.987	-	-2	30	82	0
1,4-dichlorobenzene	3.804	3.859	-	-1.4	30	80	0
sec-butylbenzene	9.21	8.229	-	10.7	30	77	0
p-isopropyltoluene	7.833	7.058	-	9.9	30	77	0
1,2-dichlorobenzene	3.724	3.77	-	-1.2	30	82	0
n-butylbenzene	6.717	6.15	-	8.4	30	79	0
1,2-dibromo-3-chloropropan	1.541	1.379	-	10.5	30	75	0
undecane	5.267	4.493	-	14.7	30	73	0
dodecane	5.065	4.198	-	17.1	30	69	.03
1,2,4-trichlorobenzene	2.469	2.34	-	5.2	30	72	0
naphthalene	6.859	5.662	-	17.5	30	72	0
1,2,3-trichlorobenzene	2.15	1.764	-	18	30	71	0
hexachlorobutadiene	2.381	2.401	-	-0.8	30	79	.02

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542413.D
 Acq On : 31 Jan 2024 11:37 AM
 Operator : AIRLAB15:JMB
 Sample : WG1880230-2,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 31 13:27:44 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	bromochloromethane	1.000	1.000	0.0	109	0.05
2	chlorodifluoromethane	0.963	0.980	-1.8	115	0.04
3	propylene	0.534	0.453	15.2	96	0.04
4	propane	0.698	0.760	-8.9	117	0.04
5	dichlorodifluoromethane	1.139	1.163	-2.1	111	0.04
6 C	chloromethane	0.428	0.491	-14.7	127	0.04
7	Freon-114	1.103	1.173	-6.3	114	0.04
8 C	methanol	0.228	0.277	-21.5	128	0.04
9 C	vinyl chloride	0.625	0.676	-8.2	116	0.04
10 C	1,3-butadiene	0.419	0.464	-10.7	122	0.04
11	butane	0.753	0.895	-18.9	139	0.04
13 C	bromomethane	0.500	0.501	-0.2	107	0.04
14 C	chloroethane	0.307	0.320	-4.2	116	0.04
15	ethanol	0.376	0.455	-21.0	118	0.05
16	dichlorofluoromethane	0.989	1.125	-13.8	129	0.04
17 C	vinyl bromide	0.462	0.473	-2.4	116	0.04
18 C	acrolein	0.232	0.240	-3.4	111	0.05
19	acetone	0.564	0.719	-27.5	144#	0.05
20 C	acetonitrile	0.477	0.548	-14.9	135	0.04
21	trichlorofluoromethane	0.851	0.970	-14.0	122	0.05
22	isopropyl alcohol	0.711	0.792	-11.4	129	0.05
23 C	acrylonitrile	0.507	0.467	7.9	105	0.05
24	pentane	1.206	1.208	-0.2	111	0.05
25	ethyl ether	1.172	1.212	-3.4	112	0.05
26 C	1,1-dichloroethene	0.981	0.949	3.3	107	0.05
27	tertiary butyl alcohol	1.205	1.045	13.3	99	0.05
28 C	methylene chloride	0.771	0.712	7.7	99	0.05
29 C	3-chloropropene	0.869	0.824	5.2	107	0.05
30 C	carbon disulfide	1.811	1.633	9.8	99	0.05
31	Freon 113	1.116	1.013	9.2	102	0.05
32	trans-1,2-dichloroethene	0.982	0.927	5.6	108	0.05
33 C	1,1-dichloroethane	1.238	1.158	6.5	105	0.05
34 C	MTBE	1.494	1.278	14.5	96	0.05
35 C	vinyl acetate	1.261	1.191	5.6	109	0.05
36 C	2-butanone	1.329	1.302	2.0	111	0.05
37	cis-1,2-dichloroethene	0.937	0.888	5.2	104	0.05
38	Ethyl Acetate	0.248	0.233	6.0	106	0.05
39 C	chloroform	1.226	1.104	10.0	96	0.05
40	Tetrahydrofuran	0.830	0.793	4.5	108	0.05

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542413.D
 Acq On : 31 Jan 2024 11:37 AM
 Operator : AIRLAB15:JMB
 Sample : WG1880230-2,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 31 13:27:44 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	2,2-dichloropropane	0.834	0.779	6.6	101	0.05
42 C	1,2-dichloroethane	0.743	0.793	-6.7	118	0.05
43 I	1,4-difluorobenzene	1.000	1.000	0.0	100	0.05
44 C	hexane	0.437	0.489	-11.9	109	0.05
45	diisopropyl ether	0.221	0.203	8.1	90	0.05
46	tert-butyl ethyl ether	0.750	0.731	2.5	96	0.04
48 C	1,1,1-trichloroethane	0.323	0.363	-12.4	109	0.05
49	1,1-dichloropropene	0.325	0.323	0.6	98	0.05
50 C	benzene	0.809	0.785	3.0	94	0.05
52 C	carbon tetrachloride	0.301	0.325	-8.0	100	0.05
53	cyclohexane	0.477	0.511	-7.1	107	0.05
54	tert-amyl methyl ether	0.607	0.539	11.2	88	0.05
55	dibromomethane	0.235	0.243	-3.4	103	0.05
56 C	1,2-dichloropropane	0.294	0.302	-2.7	102	0.05
57	bromodichloromethane	0.404	0.429	-6.2	101	0.05
58 C	1,4-dioxane	0.187	0.179	4.3	94	0.05
59 C	trichloroethene	0.319	0.301	5.6	92	0.05
60 C	2,2,4-trimethylpentane	1.456	1.618	-11.1	108	0.05
61	methyl methacrylate	0.277	0.313	-13.0	111	0.05
62	heptane	0.481	0.538	-11.9	111	0.05
63 C	cis-1,3-dichloropropene	0.377	0.365	3.2	89	0.05
64 C	4-methyl-2-pentanone	0.545	0.608	-11.6	108	0.05
65	trans-1,3-dichloropropene	0.301	0.296	1.7	89	0.05
66 C	1,1,2-trichloroethane	0.292	0.290	0.7	98	0.05
67 I	chlorobenzene-D5	1.000	1.000	0.0	113	0.04
68 C	toluene	5.734	4.971	13.3	98	0.04
71	1,3-dichloropropane	2.549	2.192	14.0	99	0.04
72	2-hexanone	3.051	2.940	3.6	110	0.04
74	dibromochloromethane	2.230	2.096	6.0	104	0.04
75 C	1,2-dibromoethane	2.593	2.190	15.5	96	0.04
76	butyl acetate	0.626	0.520	16.9	94	0.04
77	octane	2.251	1.819	19.2	93	0.03
78 C	tetrachloroethene	2.301	1.721	25.2	85	0.04
79	1,1,1,2-tetrachloroethane	1.812	1.587	12.4	99	0.04
80 C	chlorobenzene	4.481	3.619	19.2	90	0.03
81 C	ethylbenzene	7.343	6.374	13.2	97	0.03
83 C	m+p-xylene	5.792	5.259	9.2	100	0.03

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542413.D
 Acq On : 31 Jan 2024 11:37 AM
 Operator : AIRLAB15:JMB
 Sample : WG1880230-2,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 31 13:27:44 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
84 C	bromoform	1.938	1.696	12.5	95	0.03
85 C	styrene	4.694	3.821	18.6	91	0.03
86 C	1,1,2,2-tetrachloroethane	4.357	3.760	13.7	90	0.03
87 C	o-xylene	5.778	5.363	7.2	99	0.02
88	1,2,3-trichloropropane	3.231	2.797	13.4	99	0.03
89	nonane	4.585	4.325	5.7	107	0.03
91 C	isopropylbenzene	7.342	6.261	14.7	98	0.03
92	bromobenzene	4.272	3.596	15.8	95	0.03
93	2-chlorotoluene	2.221	1.785	19.6	91	0.03
94	n-propylbenzene	2.613	2.089	20.1	89	0.02
95	4-chlorotoluene	2.232	1.758	21.2	89	0.03
96	4-ethyl toluene	7.753	6.981	10.0	102	0.03
97	1,3,5-trimethylbenzene	7.201	6.529	9.3	93	0.03
98	tert-butylbenzene	7.043	5.812	17.5	89	0.03
99	1,2,4-trimethylbenzene	6.485	5.892	9.1	93	0.03
100	decane	6.136	5.899	3.9	103	0.02
101 C	Benzyl Chloride	3.901	3.548	9.0	93	0.03
102	1,3-dichlorobenzene	4.602	3.867	16.0	90	0.03
103 C	1,4-dichlorobenzene	4.546	3.765	17.2	89	0.03
104	sec-butylbenzene	9.447	8.386	11.2	98	0.03
106	p-isopropyltoluene	7.897	7.179	9.1	107	0.03
107	1,2-dichlorobenzene	4.329	3.646	15.8	88	0.03
108	n-butylbenzene	7.571	7.060	6.7	98	0.03
111 C	1,2-dibromo-3-chloropropane	1.540	1.498	2.7	102	0.03
112	undecane	6.581	6.594	-0.2	100	0.03
114	dodecane	6.085	6.829	-12.2	98	0.03
115 C	1,2,4-trichlorobenzene	3.363	2.776	17.5	77	0.04
116	naphthalene	8.774	7.848	10.6	88	0.03
117	1,2,3-trichlorobenzene	2.982	2.588	13.2	85	0.03
119 C	hexachlorobutadiene	2.852	2.326	18.4	78	0.03

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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542413.D
 Acq On : 31 Jan 2024 11:37 AM
 Operator : AIRLAB15:JMB
 Sample : WG1880230-2,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 31 13:27:44 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131T\r1542413.D
 Sub List : Default-LCS-AP2 - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.125	49	375210	10.000	ppbV	0.05
Standard Area = 375210			Recovery	=	100.00%	
43) 1,4-difluorobenzene	11.340	114	971110	10.000	ppbV	# 0.05
Standard Area = 971110			Recovery	=	100.00%	
67) chlorobenzene-D5	16.050	54	187857	10.000	ppbV	0.04
Standard Area = 187857			Recovery	=	100.00%	

System Monitoring Compounds

Target Compounds					Qvalue	
2) chlorodifluoromethane	3.928	51	367811	10.178	ppbV	96
3) propylene	3.958	41	169937M6	8.482	ppbV	
4) propane	3.982	29	285202	10.896	ppbV	97
5) dichlorodifluoromethane	4.030	85	436317	10.211	ppbV	100
6) chloromethane	4.192	50	184155	11.461	ppbV	100
7) Freon-114	4.300	85	439963	10.631	ppbV	95
8) methanol	4.366	31	519000	60.741	ppbV	97
9) vinyl chloride	4.426	62	253605	10.822	ppbV	98
10) 1,3-butadiene	4.570	54	174162	11.090	ppbV	84
11) butane	4.624	43	335892	11.887	ppbV	97
13) bromomethane	4.852	94	187962	10.015	ppbV	96
14) chloroethane	5.044	64	120107	10.435	ppbV	100
15) ethanol	5.176	31	854413	60.524	ppbV	97
16) dichlorofluoromethane	5.152	67	421928	11.368	ppbV	99
17) vinyl bromide	5.423	106	177376	10.236	ppbV	97
18) acrolein	5.553	56	89923	10.313	ppbV	96
19) acetone	5.690	43	1348728	63.684	ppbV	87
20) acetonitrile	5.407	41	205568	11.474	ppbV	98
21) trichlorofluoromethane	5.883	101	364057	11.400	ppbV	99
22) isopropyl alcohol	5.973	45	743169	27.851	ppbV	98
23) acrylonitrile	6.207	53	175291	9.216	ppbV	98
24) pentane	6.280	43	453085	10.010	ppbV	98
25) ethyl ether	6.307	31	454804	10.346	ppbV	97
26) 1,1-dichloroethene	6.582	61	356118	9.672	ppbV	93
27) tertiary butyl alcohol	6.642	59	392088	8.676	ppbV #	87
28) methylene chloride	6.726	49	267118	9.232	ppbV	92
29) 3-chloropropene	6.858	41	309193	9.486	ppbV	94
30) carbon disulfide	7.026	76	612671	9.018	ppbV	98
31) Freon 113	7.020	101	380098	9.080	ppbV	90

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542413.D
 Acq On : 31 Jan 2024 11:37 AM
 Operator : AIRLAB15:JMB
 Sample : WG1880230-2,3,250,250
 Misc : WG1880230,ICAL20574
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 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131T\r1542413.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) trans-1,2-dichloroethene	7.775	61	347896	9.445	ppbV	93
33) 1,1-dichloroethane	7.992	63	434632	9.361	ppbV	99
34) MTBE	8.058	73	479562	8.554	ppbV	98
35) vinyl acetate	8.175	43	446842	9.443	ppbV	96
36) 2-butanone	8.433	43	488516	9.795	ppbV	96
37) cis-1,2-dichloroethene	8.942	61	333238	9.477	ppbV	94
38) Ethyl Acetate	9.208	61	87430	9.389	ppbV	91
39) chloroform	9.275	83	414113	9.000	ppbV	98
40) Tetrahydrofuran	9.717	42	297441	9.548	ppbV	93
41) 2,2-dichloropropane	9.300	77	292291	9.346	ppbV #	88
42) 1,2-dichloroethane	10.108	62	297402	10.671	ppbV	95
44) hexane	9.192	57	474601	11.173	ppbV	96
45) diisopropyl ether	9.183	87	197598	9.192	ppbV	81
46) tert-butyl ethyl ether	9.792	59	709627	9.740	ppbV	96
48) 1,1,1-trichloroethane	10.400	97	352518	11.232	ppbV	95
49) 1,1-dichloropropene	10.760	75	313969	9.957	ppbV	90
50) benzene	10.927	78	762236	9.698	ppbV	98
52) carbon tetrachloride	11.093	117	315156	10.773	ppbV	96
53) cyclohexane	11.240	56	496122	10.719	ppbV	92
54) tert-amyl methyl ether	11.613	73	523802	8.881	ppbV	95
55) dibromomethane	11.833	93	235774	10.350	ppbV	91
56) 1,2-dichloropropane	11.867	63	293140	10.271	ppbV	96
57) bromodichloromethane	12.093	83	416869	10.635	ppbV	99
58) 1,4-dioxane	12.133	88	173841	9.598	ppbV	89
59) trichloroethene	12.147	130	292110	9.420	ppbV	97
60) 2,2,4-trimethylpentane	12.193	57	1571256	11.112	ppbV	96
61) methyl methacrylate	12.387	41	303552	11.269	ppbV	93
62) heptane	12.507	43	522389	11.185	ppbV	97
63) cis-1,3-dichloropropene	13.158	75	354265	9.670	ppbV #	91
64) 4-methyl-2-pentanone	13.200	43	590555	11.152	ppbV	95
65) trans-1,3-dichloropropene	13.783	75	287650	9.851	ppbV	92
66) 1,1,2-trichloroethane	13.983	97	281942	9.953	ppbV	90
68) toluene	14.292	91	933868	8.669	ppbV	98
71) 1,3-dichloropropane	14.317	76	411710	8.599	ppbV	88
72) 2-hexanone	14.567	43	552339	9.637	ppbV	99
74) dibromochloromethane	14.733	129	393694	9.397	ppbV	97
75) 1,2-dibromoethane	14.983	107	411443	8.448	ppbV	92
76) butyl acetate	15.217	73	97758	8.310	ppbV	81
77) octane	15.308	85	341781	8.084	ppbV	85
78) tetrachloroethene	15.442	166	323243	7.477	ppbV #	87

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542413.D
 Acq On : 31 Jan 2024 11:37 AM
 Operator : AIRLAB15:JMB
 Sample : WG1880230-2,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 31 13:27:44 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

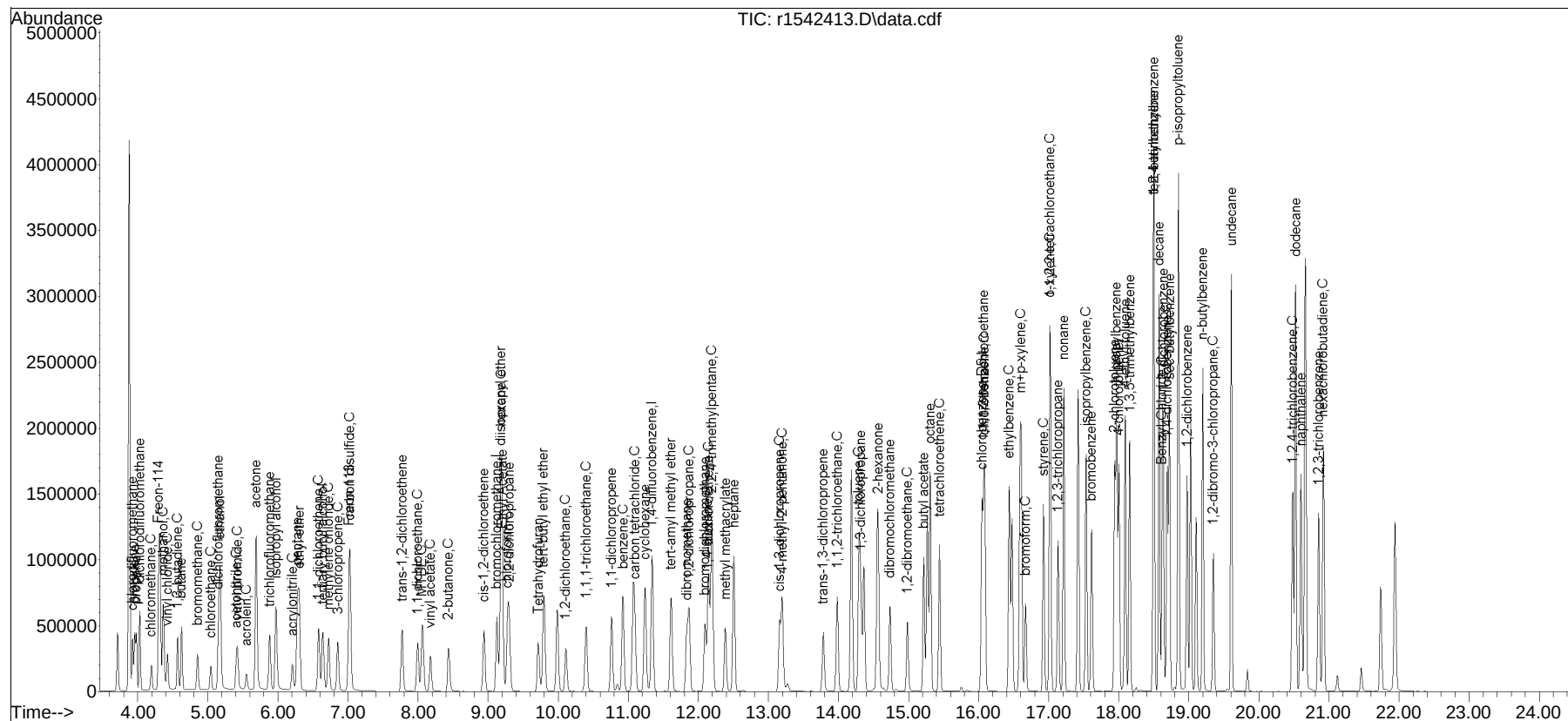
CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131T\r1542413.D
 Sub List : Default-LCS-AP2 - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
79)	1,1,1,2-tetrachloroethane	16.075	131	298176	8.762	ppbV		93
80)	chlorobenzene	16.083	112	679943	8.077	ppbV		99
81)	ethylbenzene	16.433	91	1197323	8.679	ppbV		95
83)	m+p-xylene	16.600	91	1976039	18.160	ppbV		94
84)	bromoform	16.667	173	318683	8.756	ppbV		96
85)	styrene	16.925	104	717787	8.140	ppbV		99
86)	1,1,2,2-tetrachloroethane	17.017	83	706348	8.630	ppbV		98
87)	o-xylene	17.017	91	1007560	9.283	ppbV		96
88)	1,2,3-trichloropropane	17.133	75	525456	8.657	ppbV	#	94
89)	nonane	17.217	43	812449	9.433	ppbV		96
91)	isopropylbenzene	17.533	105	1176192	8.528	ppbV		96
92)	bromobenzene	17.608	77	675575	8.418	ppbV		99
93)	2-chlorotoluene	17.942	126	335370	8.036	ppbV		79
94)	n-propylbenzene	17.967	120	392472	7.996	ppbV		74
95)	4-chlorotoluene	18.000	126	330302M3	7.877	ppbV		
96)	4-ethyl toluene	18.092	105	1311468	9.004	ppbV		95
97)	1,3,5-trimethylbenzene	18.158	105	1226449	9.066	ppbV		94
98)	tert-butylbenzene	18.500	119	1091795	8.252	ppbV		99
99)	1,2,4-trimethylbenzene	18.500	105	1106841	9.086	ppbV		97
100)	decane	18.575	57	1108162	9.614	ppbV		95
101)	Benzyl Chloride	18.617	91	666533	9.095	ppbV		96
102)	1,3-dichlorobenzene	18.633	146	726411	8.403	ppbV		97
103)	1,4-dichlorobenzene	18.692	146	707227M3	8.281	ppbV		
104)	sec-butylbenzene	18.725	105	1575316	8.876	ppbV		97
106)	p-isopropyltoluene	18.850	119	1348614	9.090	ppbV		97
107)	1,2-dichlorobenzene	18.975	146	684921	8.422	ppbV		92
108)	n-butylbenzene	19.200	91	1326242	9.325	ppbV		96
111)	1,2-dibromo-3-chloropr...	19.350	75	281494	9.732	ppbV	#	80
112)	undecane	19.608	57	1238732	10.020	ppbV	#	96
114)	dodecane	20.525	57	1282806	11.222	ppbV		93
115)	1,2,4-trichlorobenzene	20.483	180	521506	8.255	ppbV	#	91
116)	naphthalene	20.600	128	1474317	8.945	ppbV		96
117)	1,2,3-trichlorobenzene	20.850	180	486140	8.677	ppbV		97
119)	hexachlorobutadiene	20.917	225	436934	8.156	ppbV		95

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

```
Data Path : 0:\Forensics\Data\AirLab15\2024\01\0131T\
Data File : r1542413.D
Acq On    : 31 Jan 2024  11:37 AM
Operator  : AIRLAB15:JMB
Sample    : WG1880230-2,3,250,250
Misc      : WG1880230,ICAL20574
ALS Vial  : 0      Sample Multiplier: 1
```

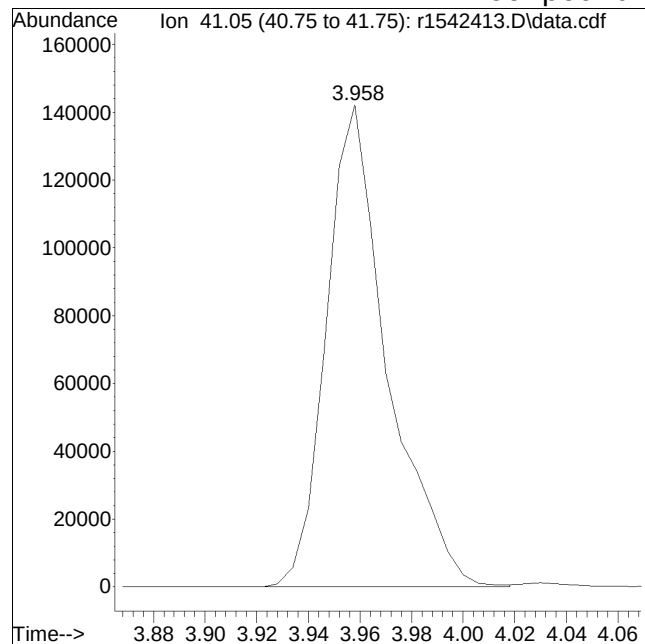
Quant Time: Jan 31 13:27:44 2024
Quant Method : 0:\Forensics\Data\AirLab15\2024\01\0131T\TFS15_231120.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 15:43:21 2023
Response via : Initial Calibration



Manual Integration Report

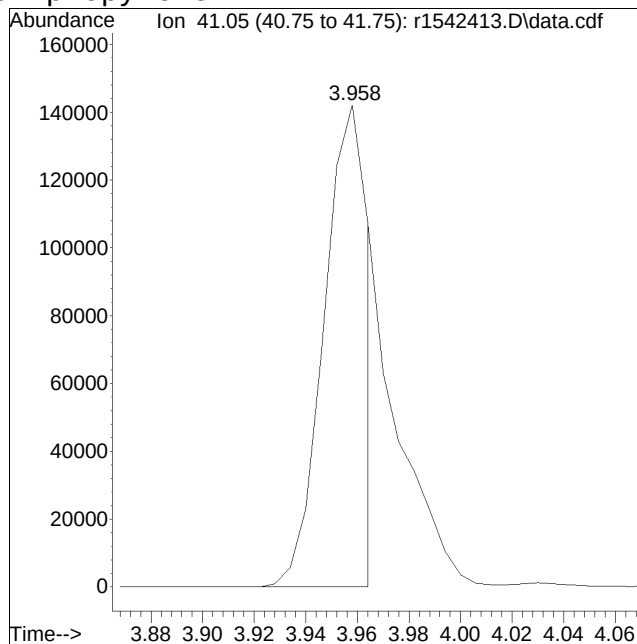
Data Path : 0:\Forensics\Data\AirLab15QMethod : TFS15_231120.M
Data File : r1542413.D Operator : AIRLAB15:JMB
Date Inj'd : 1/31/2020 0:1: 7 Instrument :
Sample : WG1880230-2,3,250,250 Quant Date : 1/31/2024 1:27 pm

Compound #3: propylene



Original Peak Response = 234575

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

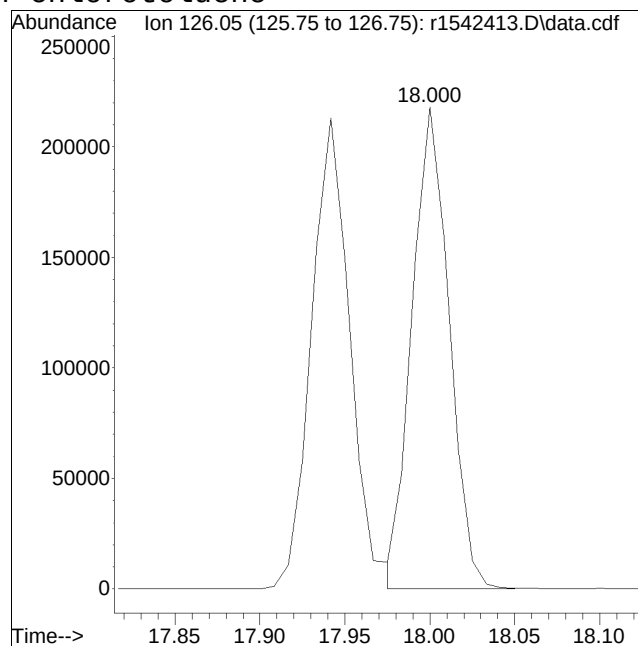
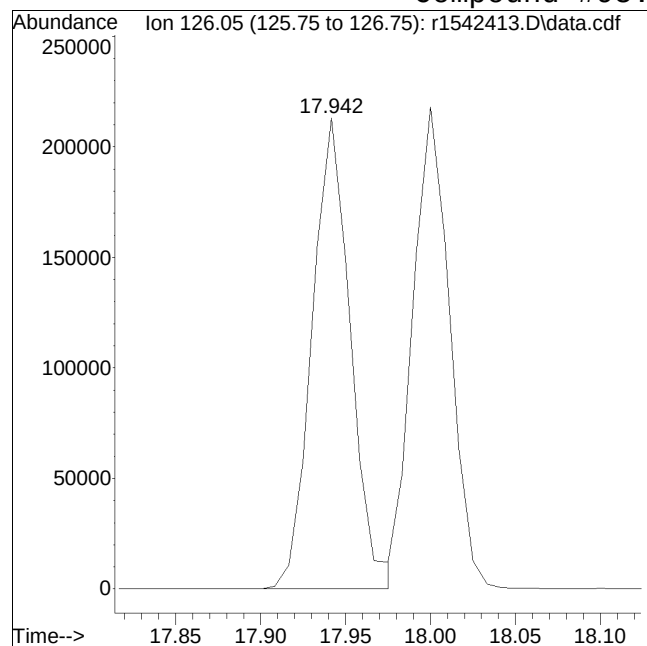


Manual Peak Response = 169937 M6

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1542413.D Operator : AIRLAB15:JMB
Date Inj'd : 1/31/2020 0:1: 7 Instrument :
Sample : WG1880230-2,3,250,250 Quant Date : 1/31/2024 1:27 pm

Compound #95: 4-chlorotoluene



Original Peak Response = 335370

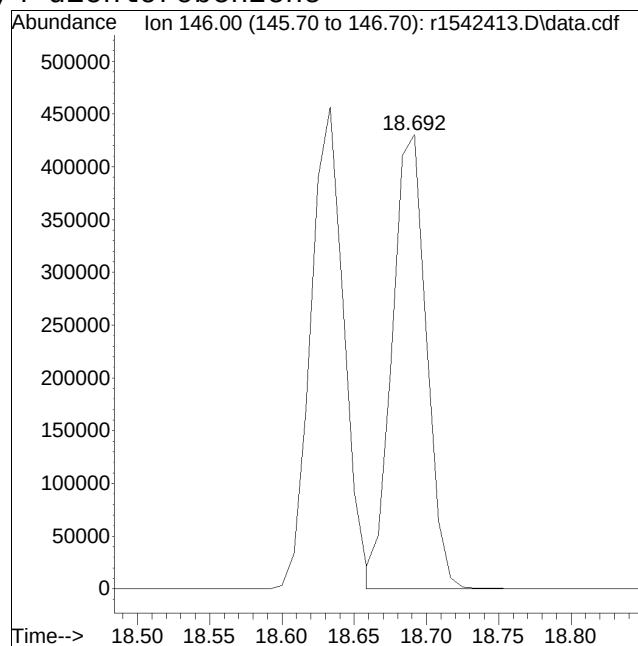
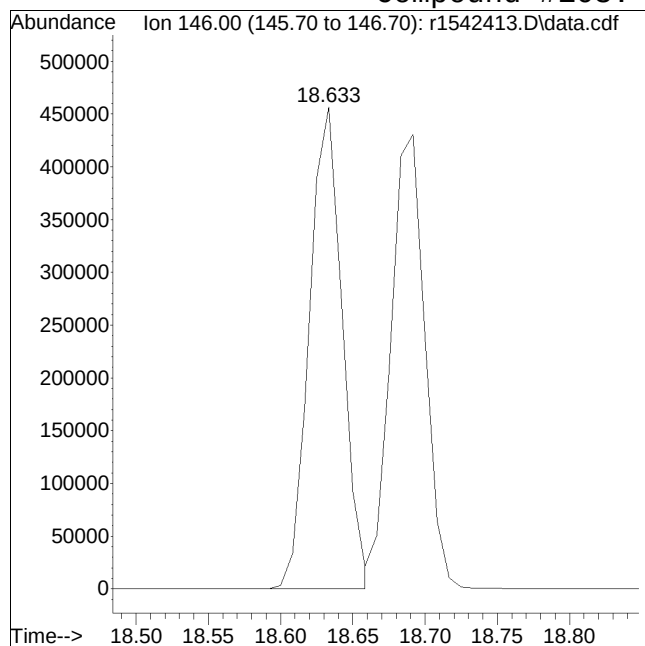
Manual Peak Response = 330302 M3

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

Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1542413.D Operator : AIRLAB15:JMB
Date Inj'd : 1/31/2020 0:1: 7 Instrument :
Sample : WG1880230-2,3,250,250 Quant Date : 1/31/2024 1:27 pm

Compound #103: 1,4-dichlorobenzene



Original Peak Response = 726411

Manual Peak Response = 707227 M3

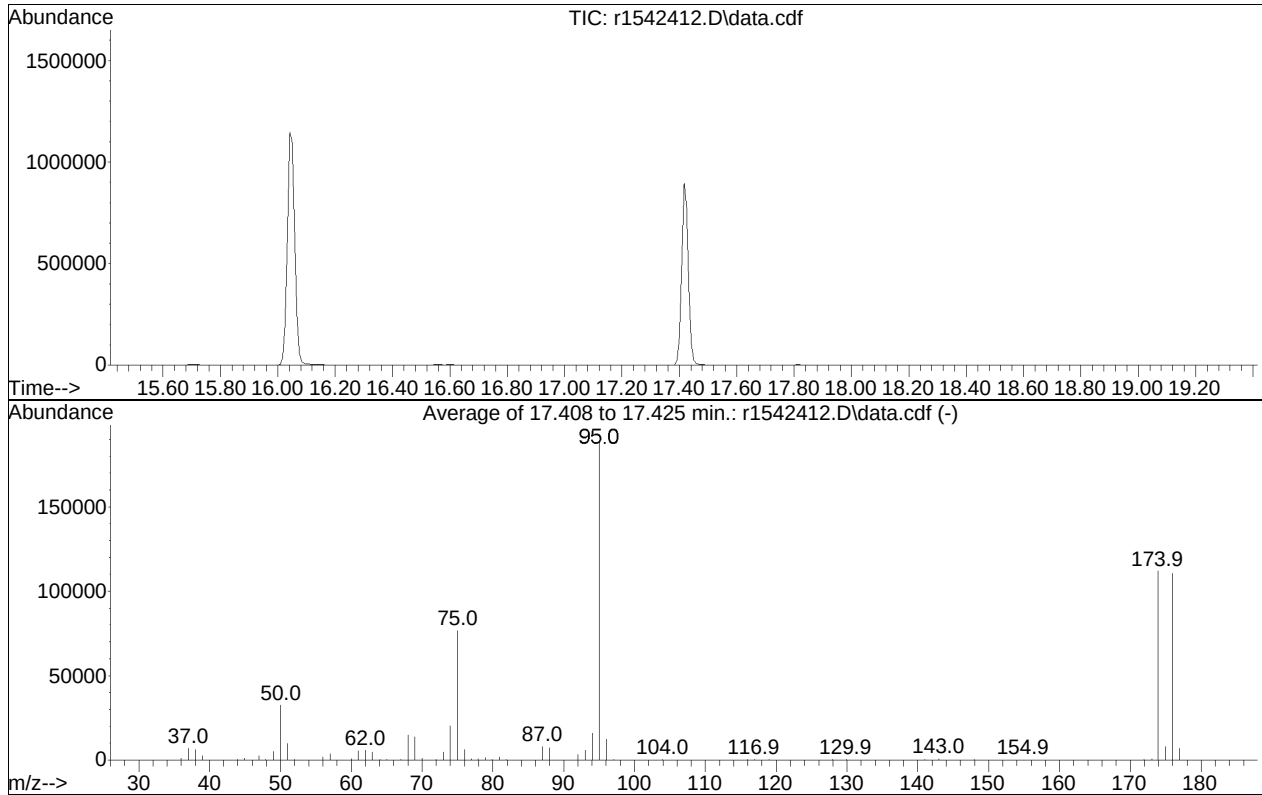
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

BFB

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542412.D
 Acq On : 31 Jan 2024 10:56 AM
 Operator : AIRLAB15:JMB
 Sample : WG1880230-1,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Tue Nov 21 15:43:18 2023



Spectrum Information: Average of 17.408 to 17.425 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.2	32631	PASS
75	95	30	66	40.6	76767	PASS
95	95	100	100	100.0	189203	PASS
96	95	5	9	6.4	12189	PASS
173	174	0.00	2	0.7	735	PASS
174	95	50	120	59.3	112143	PASS
175	174	4	9	7.2	8053	PASS
176	174	93	101	98.5	110446	PASS
177	176	5	9	6.5	7124	PASS

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab17\2024\02\0201T\
 Data File : r1738297.D
 Acq On : 1 Feb 2024 2:40 PM
 Operator : AIRLAB17:JMB
 Sample : WG1880708-2,3,250,250
 Misc : WG1880708,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 15:31:17 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\02\0201T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	bromochloromethane	1.000	1.000	0.0	80	0.00
2	chlorodifluoromethane	0.844	0.812	3.8	79	0.00
3	propylene	0.471	0.420	10.8	80	0.00
4	propane	0.624	0.540	13.5	73	0.00
5	dichlorodifluoromethane	0.948	1.059	-11.7	88	0.00
6 C	chloromethane	0.504	0.536	-6.3	84	0.00
7	Freon-114	1.154	1.227	-6.3	84	0.00
8 C	methanol	0.253	0.236	6.7	77	0.00
9 C	vinyl chloride	0.523	0.527	-0.8	80	0.00
10 C	1,3-butadiene	0.450	0.426	5.3	76	0.00
11	butane	0.770	0.759	1.4	83	0.00
13 C	bromomethane	0.429	0.440	-2.6	81	0.00
14 C	chloroethane	0.241	0.240	0.4	80	0.00
15	ethanol	0.428	0.412	3.7	75	0.00
16	dichlorofluoromethane	0.869	0.897	-3.2	86	0.00
17 C	vinyl bromide	0.412	0.425	-3.2	83	0.00
18 C	acrolein	0.249	0.214	14.1	74	0.00
19	acetone	0.609	0.608	0.2	85	0.00
20 C	acetonitrile	0.425	0.424	0.2	85	0.00
21	trichlorofluoromethane	0.750	0.835	-11.3	88	0.00
22	isopropyl alcohol	0.791	0.748	5.4	75	0.00
23 C	acrylonitrile	0.462	0.412	10.8	75	0.00
24	pentane	0.910	0.892	2.0	83	0.00
25	ethyl ether	0.953	0.785	17.6	73	0.00
26 C	1,1-dichloroethene	0.676	0.683	-1.0	81	0.00
27	tertiary butyl alcohol	0.921	0.740	19.7	66	0.00
28 C	methylene chloride	0.670	0.726	-8.4	92	0.00
29 C	3-chloropropene	0.749	0.762	-1.7	82	0.00
30 C	carbon disulfide	1.668	1.608	3.6	75	0.00
31	Freon 113	0.971	1.048	-7.9	85	0.00
32	trans-1,2-dichloroethene	0.704	0.739	-5.0	83	0.00
33 C	1,1-dichloroethane	0.889	0.971	-9.2	86	0.00
34 C	MTBE	1.313	1.170	10.9	71	0.00
35 C	vinyl acetate	1.208	1.248	-3.3	81	0.00
36 C	2-butanone	1.222	1.284	-5.1	83	0.00
37	cis-1,2-dichloroethene	0.662	0.705	-6.5	84	0.00
38	Ethyl Acetate	0.170	0.173	-1.8	81	0.00
39 C	chloroform	0.940	0.993	-5.6	84	0.00
40	Tetrahydrofuran	0.693	0.740	-6.8	84	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab17\2024\02\0201T\
 Data File : r1738297.D
 Acq On : 1 Feb 2024 2:40 PM
 Operator : AIRLAB17:JMB
 Sample : WG1880708-2,3,250,250
 Misc : WG1880708,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 15:31:17 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\02\0201T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	2,2-dichloropropane	0.736	0.685	6.9	76	0.00
42 C	1,2-dichloroethane	0.536	0.602	-12.3	92	0.00
43 I	1,4-difluorobenzene	1.000	1.000	0.0	82	0.00
44 C	hexane	0.331	0.317	4.2	80	0.00
45	diisopropyl ether	0.174	0.150	13.8	74	0.00
46	tert-butyl ethyl ether	0.580	0.494	14.8	72	0.00
48 C	1,1,1-trichloroethane	0.288	0.307	-6.6	88	0.00
49	1,1-dichloropropene	0.312	0.286	8.3	77	0.00
50 C	benzene	0.741	0.696	6.1	76	0.00
52 C	carbon tetrachloride	0.271	0.302	-11.4	88	0.00
53	cyclohexane	0.354	0.333	5.9	78	0.00
54	tert-amyl methyl ether	0.584	0.475	18.7	69	0.00
55	dibromomethane	0.198	0.206	-4.0	88	0.00
56 C	1,2-dichloropropane	0.228	0.246	-7.9	87	0.00
57	bromodichloromethane	0.348	0.361	-3.7	83	0.00
58 C	1,4-dioxane	0.143	0.140	2.1	79	0.00
59 C	trichloroethene	0.282	0.297	-5.3	85	0.00
60 C	2,2,4-trimethylpentane	1.099	1.015	7.6	80	0.00
61	methyl methacrylate	0.247	0.270	-9.3	87	0.00
62	heptane	0.466	0.480	-3.0	83	0.00
63 C	cis-1,3-dichloropropene	0.371	0.340	8.4	72	0.00
64 C	4-methyl-2-pentanone	0.552	0.575	-4.2	82	0.00
65	trans-1,3-dichloropropene	0.290	0.268	7.6	72	0.00
66 C	1,1,2-trichloroethane	0.253	0.268	-5.9	85	0.00
67 I	chlorobenzene-D5	1.000	1.000	0.0	84	0.00
68 C	toluene	5.498	5.511	-0.2	83	0.00
71	1,3-dichloropropane	2.760	2.511	9.0	78	0.00
72	2-hexanone	3.566	3.707	-4.0	81	0.00
74	dibromochloromethane	2.321	2.602	-12.1	89	0.00
75 C	1,2-dibromoethane	2.826	2.867	-1.5	83	0.00
76	butyl acetate	0.635	0.560	11.8	72	0.00
77	octane	1.996	1.779	10.9	79	0.00
78 C	tetrachloroethene	2.195	2.179	0.7	82	0.00
79	1,1,1,2-tetrachloroethane	1.906	1.956	-2.6	87	0.00
80 C	chlorobenzene	4.722	4.556	3.5	79	0.00
81 C	ethylbenzene	6.927	7.132	-3.0	83	0.00
83 C	m+p-xylene	5.488	5.660	-3.1	84	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab17\2024\02\0201T\
 Data File : r1738297.D
 Acq On : 1 Feb 2024 2:40 PM
 Operator : AIRLAB17:JMB
 Sample : WG1880708-2,3,250,250
 Misc : WG1880708,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 15:31:17 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\02\0201T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
84 C	bromoform	1.794	2.001	-11.5	86	0.00
85 C	styrene	4.644	4.414	5.0	75	0.00
86 C	1,1,2,2-tetrachloroethane	4.138	4.145	-0.2	82	0.00
87 C	o-xylene	5.492	5.646	-2.8	84	0.00
88	1,2,3-trichloropropane	3.301	2.948	10.7	78	0.00
89	nonane	5.239	4.862	7.2	79	0.00
91 C	isopropylbenzene	7.347	6.783	7.7	80	0.00
92	bromobenzene	4.250	3.731	12.2	76	0.00
93	2-chlorotoluene	2.139	1.996	6.7	80	0.00
94	n-propylbenzene	2.332	2.211	5.2	83	0.00
95	4-chlorotoluene	2.046	1.954	4.5	81	0.00
96	4-ethyl toluene	7.571	7.209	4.8	79	0.00
97	1,3,5-trimethylbenzene	6.529	6.306	3.4	79	0.00
98	tert-butylbenzene	6.472	6.031	6.8	79	0.00
99	1,2,4-trimethylbenzene	6.497	6.289	3.2	78	0.00
100	decane	4.934	4.435	10.1	78	0.00
101 C	Benzyl Chloride	3.616	3.135	13.3	69	0.00
102	1,3-dichlorobenzene	3.907	3.987	-2.0	82	0.00
103 C	1,4-dichlorobenzene	3.804	3.859	-1.4	80	0.00
104	sec-butylbenzene	9.210	8.229	10.7	77	0.00
106	p-isopropyltoluene	7.833	7.058	9.9	77	0.00
107	1,2-dichlorobenzene	3.724	3.770	-1.2	82	0.00
108	n-butylbenzene	6.717	6.150	8.4	79	0.00
111 C	1,2-dibromo-3-chloropropane	1.541	1.379	10.5	75	0.00
112	undecane	5.267	4.493	14.7	73	0.00
114	dodecane	5.065	4.198	17.1	69	0.03
115 C	1,2,4-trichlorobenzene	2.469	2.340	5.2	72	0.00
116	naphthalene	6.859	5.662	17.5	72	0.00
117	1,2,3-trichlorobenzene	2.150	1.764	18.0	71	0.00
119 C	hexachlorobutadiene	2.381	2.401	-0.8	79	0.02

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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\02\0201T\
 Data File : r1738297.D
 Acq On : 1 Feb 2024 2:40 PM
 Operator : AIRLAB17:JMB
 Sample : WG1880708-2,3,250,250
 Misc : WG1880708,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 15:31:17 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\02\0201T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\02\0201T\r1738297.D
 Sub List : Default-LCS-AP2 - All compounds listed

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

Internal Standards						
1) bromochloromethane	8.842	49	342891	10.000	ppbV	0.00
Standard Area = 342891			Recovery =	100.00%		
43) 1,4-difluorobenzene	11.070	114	918799	10.000	ppbV	0.00
Standard Area = 918799			Recovery =	100.00%		
67) chlorobenzene-D5	15.833	54	130233	10.000	ppbV	0.00
Standard Area = 130233			Recovery =	100.00%		

System Monitoring Compounds

Target Compounds					Qvalue	
2) chlorodifluoromethane	3.766	51	278326	9.618	ppbV #	95
3) propylene	3.796	41	143854M6	8.899	ppbV	
4) propane	3.820	29	185051	8.651	ppbV #	93
5) dichlorodifluoromethane	3.862	85	363128	11.173	ppbV	99
6) chloromethane	4.018	50	183660	10.637	ppbV	98
7) Freon-114	4.120	85	420732	10.631	ppbV	99
8) methanol	4.168	31	403948	46.577	ppbV	98
9) vinyl chloride	4.234	62	180751	10.088	ppbV	99
10) 1,3-butadiene	4.372	54	146147	9.474	ppbV	91
11) butane	4.426	43	260170	9.855	ppbV	97
13) bromomethane	4.642	94	150953	10.257	ppbV	100
14) chloroethane	4.822	64	82389	9.951	ppbV	100
15) ethanol	4.930	31	705745	48.090	ppbV	95
16) dichlorofluoromethane	4.924	67	307505	10.315	ppbV	99
17) vinyl bromide	5.183	106	145748	10.322	ppbV	99
18) acrolein	5.300	56	73289	8.596	ppbV	99
19) acetone	5.433	43	1042505	49.937	ppbV	93
20) acetonitrile	5.160	41	145370	9.972	ppbV	98
21) trichlorofluoromethane	5.630	101	286373	11.134	ppbV	99
22) isopropyl alcohol	5.700	45	641619	23.652	ppbV	98
23) acrylonitrile	5.940	53	141133	8.912	ppbV	98
24) pentane	6.017	43	305697	9.798	ppbV	98
25) ethyl ether	6.040	31	269041	8.234	ppbV	97
26) 1,1-dichloroethene	6.312	61	234122	10.095	ppbV	98
27) tertiary butyl alcohol	6.348	59	253744	8.035	ppbV #	81
28) methylene chloride	6.450	49	248795	10.823	ppbV	94
29) 3-chloropropene	6.582	41	261314	10.181	ppbV	96
30) carbon disulfide	6.744	76	551434	9.640	ppbV	96
31) Freon 113	6.750	101	359517	10.794	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\02\0201T\
 Data File : r1738297.D
 Acq On : 1 Feb 2024 2:40 PM
 Operator : AIRLAB17:JMB
 Sample : WG1880708-2,3,250,250
 Misc : WG1880708,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 15:31:17 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\02\0201T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\02\0201T\r1738297.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) trans-1,2-dichloroethene	7.492	61	253262	10.494	ppbV	98
33) 1,1-dichloroethane	7.708	63	332988	10.926	ppbV	100
34) MTBE	7.775	73	401148	8.909	ppbV	98
35) vinyl acetate	7.892	43	428055	10.331	ppbV	98
36) 2-butanone	8.142	43	440139	10.501	ppbV	98
37) cis-1,2-dichloroethene	8.650	61	241865	10.656	ppbV	99
38) Ethyl Acetate	8.925	61	59377	10.182	ppbV	98
39) chloroform	8.992	83	340343	10.562	ppbV	99
40) Tetrahydrofuran	9.417	42	253881	10.678	ppbV	95
41) 2,2-dichloropropane	9.017	77	234744	9.296	ppbV #	85
42) 1,2-dichloroethane	9.825	62	206266	11.231	ppbV	94
44) hexane	8.908	57	290853	9.569	ppbV	92
45) diisopropyl ether	8.908	87	137393	8.593	ppbV	94
46) tert-butyl ethyl ether	9.517	59	453480	8.504	ppbV	99
48) 1,1,1-trichloroethane	10.117	97	282281	10.665	ppbV	96
49) 1,1-dichloropropene	10.483	75	262504	9.148	ppbV #	91
50) benzene	10.643	78	639113	9.386	ppbV	99
52) carbon tetrachloride	10.817	117	277915	11.151	ppbV	99
53) cyclohexane	10.963	56	306013	9.415	ppbV	94
54) tert-amyl methyl ether	11.337	73	436745	8.144	ppbV	96
55) dibromomethane	11.557	93	189618	10.427	ppbV	97
56) 1,2-dichloropropane	11.597	63	226253	10.811	ppbV	98
57) bromodichloromethane	11.823	83	331847	10.391	ppbV	99
58) 1,4-dioxane	11.857	88	128494	9.806	ppbV	96
59) trichloroethene	11.877	130	272801	10.530	ppbV	99
60) 2,2,4-trimethylpentane	11.930	57	932472	9.237	ppbV	94
61) methyl methacrylate	12.123	41	247849	10.915	ppbV	95
62) heptane	12.250	43	441064	10.304	ppbV	99
63) cis-1,3-dichloropropene	12.892	75	312775	9.172	ppbV	94
64) 4-methyl-2-pentanone	12.925	43	528333	10.412	ppbV	97
65) trans-1,3-dichloropropene	13.517	75	246052	9.230	ppbV	94
66) 1,1,2-trichloroethane	13.717	97	246346	10.595	ppbV	95
68) toluene	14.042	91	717750	10.025	ppbV	100
71) 1,3-dichloropropane	14.075	76	327056	9.098	ppbV	88
72) 2-hexanone	14.333	43	482825	10.396	ppbV	98
74) dibromochloromethane	14.500	129	338835	11.209	ppbV	99
75) 1,2-dibromoethane	14.750	107	373331	10.145	ppbV	97
76) butyl acetate	15.008	73	72877	8.816	ppbV	85
77) octane	15.108	85	231728	8.914	ppbV	89
78) tetrachloroethene	15.225	166	283780	9.926	ppbV	92

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\02\0201T\
 Data File : r1738297.D
 Acq On : 1 Feb 2024 2:40 PM
 Operator : AIRLAB17:JMB
 Sample : WG1880708-2,3,250,250
 Misc : WG1880708,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 15:31:17 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\02\0201T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\02\0201T\r1738297.D
 Sub List : Default-LCS-AP2 - All compounds listed

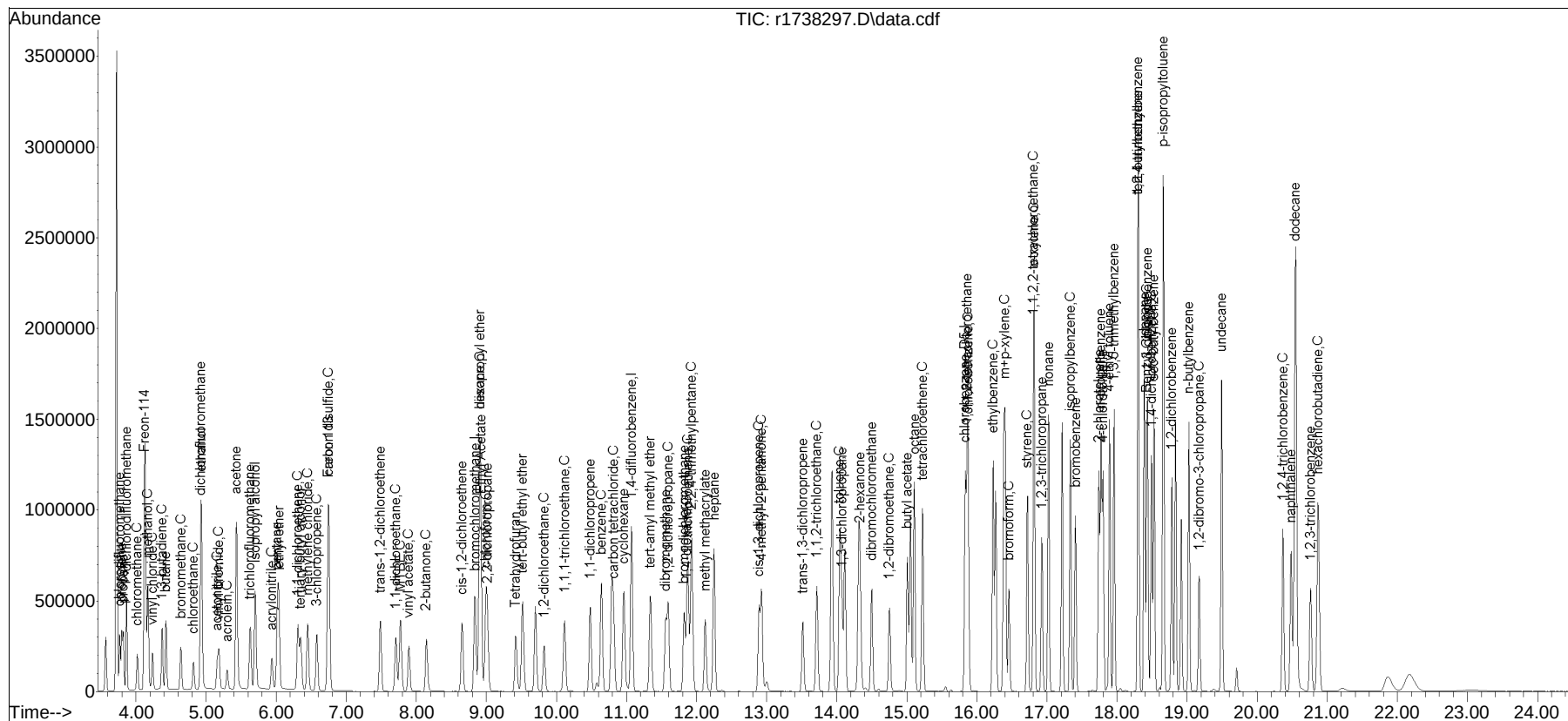
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79)	1,1,1,2-tetrachloroethane	15.858	131	254683	10.259	ppbV	96
80)	chlorobenzene	15.875	112	593399	9.649	ppbV	98
81)	ethylbenzene	16.233	91	928764	10.296	ppbV	98
83)	m+p-xylene	16.400	91	1474177	20.625	ppbV	96
84)	bromoform	16.458	173	260540	11.149	ppbV	100
85)	styrene	16.717	104	574787	9.504	ppbV	98
86)	1,1,2,2-tetrachloroethane	16.808	83	539817	10.016	ppbV	99
87)	o-xylene	16.817	91	735310	10.280	ppbV	97
88)	1,2,3-trichloropropane	16.925	75	383905	8.929	ppbV	95
89)	nonane	17.025	43	633199	9.280	ppbV	100
91)	isopropylbenzene	17.333	105	883434	9.232	ppbV	98
92)	bromobenzene	17.408	77	485867	8.778	ppbV	92
93)	2-chlorotoluene	17.742	126	259973	9.330	ppbV	86
94)	n-propylbenzene	17.767	120	287890	9.478	ppbV	94
95)	4-chlorotoluene	17.800	126	254477	9.552	ppbV	98
96)	4-ethyl toluene	17.892	105	938903	9.523	ppbV	96
97)	1,3,5-trimethylbenzene	17.958	105	821282	9.659	ppbV	99
98)	tert-butylbenzene	18.300	119	785446	9.318	ppbV	99
99)	1,2,4-trimethylbenzene	18.300	105	819035	9.679	ppbV	95
100)	decane	18.392	57	577613	8.988	ppbV	99
101)	Benzyl Chloride	18.425	91	408287	8.671	ppbV	96
102)	1,3-dichlorobenzene	18.433	146	519275	10.207	ppbV	96
103)	1,4-dichlorobenzene	18.492	146	502577	10.144	ppbV	99
104)	sec-butylbenzene	18.525	105	1071719	8.936	ppbV	98
106)	p-isopropyltoluene	18.658	119	919140	9.010	ppbV	98
107)	1,2-dichlorobenzene	18.783	146	490957	10.122	ppbV	99
108)	n-butylbenzene	19.025	91	800906	9.155	ppbV	98
111)	1,2-dibromo-3-chloropr...	19.175	75	179621	8.950	ppbV	94
112)	undecane	19.492	57	585097	8.529	ppbV	98
114)	dodecane	20.542	57	546702	8.289	ppbV	97
115)	1,2,4-trichlorobenzene	20.367	180	304764	9.479	ppbV	97
116)	naphthalene	20.483	128	737374	8.254	ppbV	100
117)	1,2,3-trichlorobenzene	20.758	180	229669	8.203	ppbV	100
119)	hexachlorobutadiene	20.867	225	312651	10.083	ppbV	98

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

Sub List : Default-LCS-AP2 - All compounds listed1T\r1738297.D

Data Path : 0:\Forensics\Data\AirLab17\2024\02\0201T\
Data File : r1738297.D
Acq On : 1 Feb 2024 2:40 PM
Operator : AIRLAB17:JMB
Sample : WG1880708-2,3,250,250
Misc : WG1880708,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

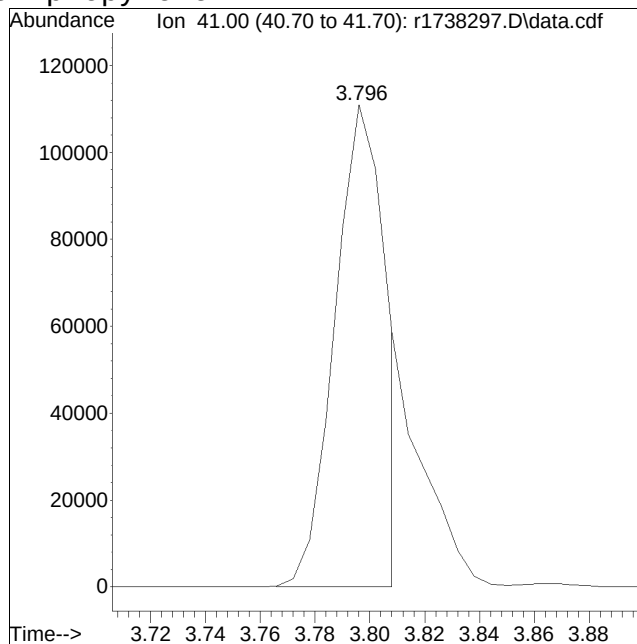
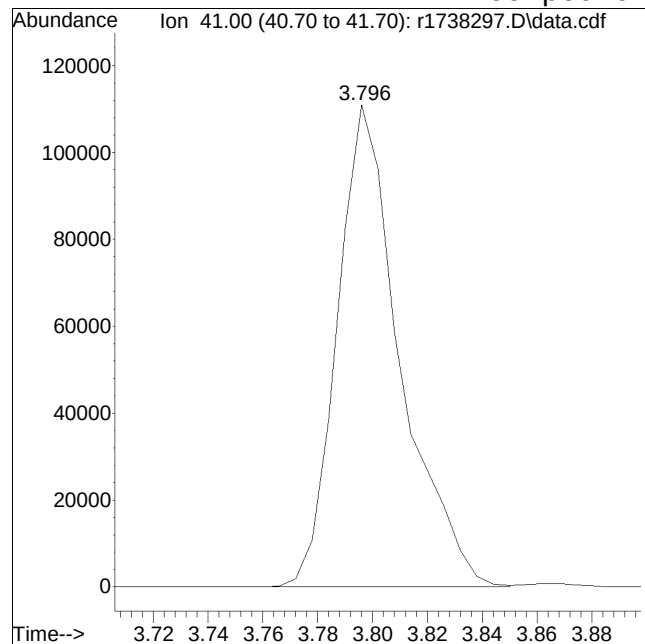
Quant Time: Feb 01 15:31:17 2024
Quant Method : 0:\Forensics\Data\AirLab17\2024\02\0201T\TFS17_240107.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1738297.D Operator : AIRLAB17:JMB
Date Inj'd : 2/1/2020 0:2: 0 Instrument :
Sample : WG1880708-2,3,250,250 Quant Date : 2/1/2024 3:31 pm

Compound #3: propylene



Original Peak Response = 177273

Manual Peak Response = 143854 M6

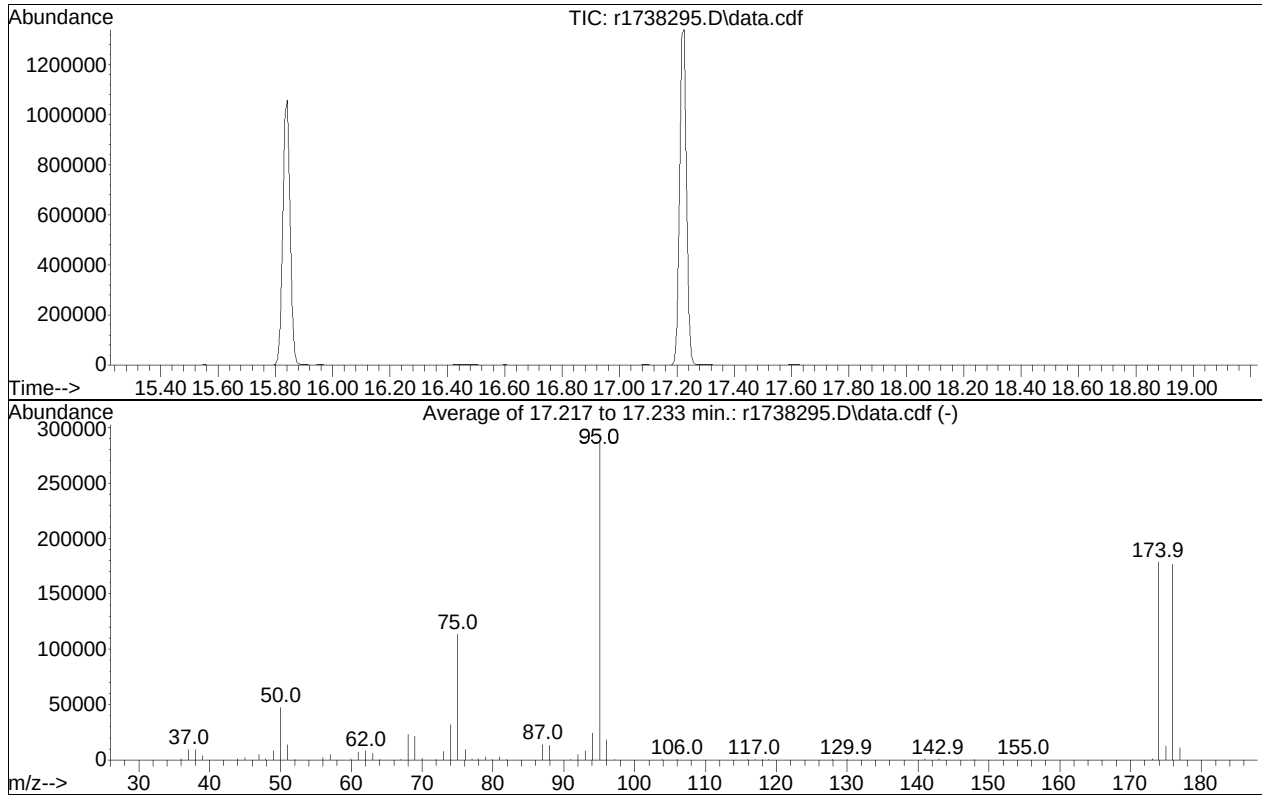
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

BFB

Data Path : 0:\Forensics\Data\AirLab17\2024\02\0201T\
 Data File : r1738295.D
 Acq On : 1 Feb 2024 1:19 PM
 Operator : AIRLAB17:JMB
 Sample : WG1880708-1,3,250,250
 Misc : WG1880708,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : 0:\Forensics\Data\AirLab17\2024\02\0201T\TFS17_240107.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Mon Jan 08 15:04:29 2024



Spectrum Information: Average of 17.217 to 17.233 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.6	47801	PASS
75	95	30	66	39.5	113765	PASS
95	95	100	100	100.0	288315	PASS
96	95	5	9	6.4	18447	PASS
173	174	0.00	2	0.6	1158	PASS
174	95	50	120	62.1	178993	PASS
175	174	4	9	7.1	12681	PASS
176	174	93	101	98.7	176660	PASS
177	176	5	9	6.3	11084	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542416.D
 Acq On : 31 Jan 2024 2:23 PM
 Operator : AIRLAB15:JMB
 Sample : WG1880230-4,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 31 15:59:19 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131T\r1542413.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.125	49	339343	10.000	ppbV	0.05
Standard Area = 375210			Recovery =		90.44%	
43) 1,4-difluorobenzene	11.347	114	897243	10.000	ppbV #	0.05
Standard Area = 971110			Recovery =		92.39%	
67) chlorobenzene-D5	16.050	54	167050	10.000	ppbV	0.04
Standard Area = 187857			Recovery =		88.92%	

System Monitoring Compounds

Target Compounds					Qvalue
5) dichlorodifluoromethane	0.000		0	N.D.	
6) chloromethane	0.000		0	N.D.	
9) vinyl chloride	0.000		0	N.D.	
10) 1,3-butadiene	0.000		0	N.D.	
13) bromomethane	0.000		0	N.D.	
14) chloroethane	0.000		0	N.D.	
17) vinyl bromide	0.000		0	N.D.	
18) acrolein	0.000		0	N.D.	
19) acetone	5.727	43	1408	0.074 ppbV #	94
21) trichlorofluoromethane	5.710		0	N.D.	
22) isopropyl alcohol	6.010	45	1286	0.053 ppbV #	83
23) acrylonitrile	0.000		0	N.D.	
26) 1,1-dichloroethene	0.000		0	N.D.	
28) methylene chloride	6.726	49	929	0.036 ppbV	83
29) 3-chloropropene	0.000		0	N.D.	
30) carbon disulfide	0.000		0	N.D.	
31) Freon 113	0.000		0	N.D.	
32) trans-1,2-dichloroethene	0.000		0	N.D.	
33) 1,1-dichloroethane	0.000		0	N.D.	
34) MTBE	0.000		0	N.D.	
37) cis-1,2-dichloroethene	0.000		0	N.D.	
39) chloroform	0.000		0	N.D.	
40) Tetrahydrofuran	0.000		0	N.D.	
42) 1,2-dichloroethane	0.000		0	N.D.	
44) hexane	0.000		0	N.D.	
48) 1,1,1-trichloroethane	0.000		0	N.D.	
50) benzene	0.000		0	N.D.	
52) carbon tetrachloride	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542416.D
 Acq On : 31 Jan 2024 2:23 PM
 Operator : AIRLAB15:JMB
 Sample : WG1880230-4,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 31 15:59:19 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131T\r1542413.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) cyclohexane	0.000		0		N.D.	d
56) 1,2-dichloropropane	0.000		0		N.D.	
57) bromodichloromethane	0.000		0		N.D.	
58) 1,4-dioxane	0.000		0		N.D.	
59) trichloroethene	0.000		0		N.D.	
61) methyl methacrylate	0.000		0		N.D.	
64) 4-methyl-2-pentanone	13.283		0		N.D.	
66) 1,1,2-trichloroethane	0.000		0		N.D.	
68) toluene	0.000		0		N.D.	
71) 1,3-dichloropropane	0.000		0		N.D.	
74) dibromochloromethane	0.000		0		N.D.	
75) 1,2-dibromoethane	0.000		0		N.D.	
78) tetrachloroethene	0.000		0		N.D.	
80) chlorobenzene	0.000		0		N.D.	
81) ethylbenzene	0.000		0		N.D.	
83) m+p-xylene	0.000		0		N.D.	
84) bromoform	0.000		0		N.D.	
85) styrene	0.000		0		N.D.	
86) 1,1,2,2-tetrachloroethane	0.000		0		N.D.	
87) o-xylene	0.000		0		N.D.	
91) isopropylbenzene	0.000		0		N.D.	
97) 1,3,5-trimethylbenzene	0.000		0		N.D.	
99) 1,2,4-trimethylbenzene	0.000		0		N.D.	
101) Benzyl Chloride	18.633		0		N.D.	
103) 1,4-dichlorobenzene	18.642		0		N.D.	
107) 1,2-dichlorobenzene	18.983		0		N.D.	
115) 1,2,4-trichlorobenzene	20.500		0		N.D.	
116) naphthalene	20.633		0		N.D.	

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

Sub List : Default-LCS-AP2 - All compounds listed1T\r1542413.D

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\

Data File : r1542416.D

Acq On : 31 Jan 2024 2:23 PM

Operator : AIRLAB15:JMB

Sample : WG1880230-4,3,250,250

Misc : WG1880230,ICAL20574

ALS Vial : 0 Sample Multiplier: 1

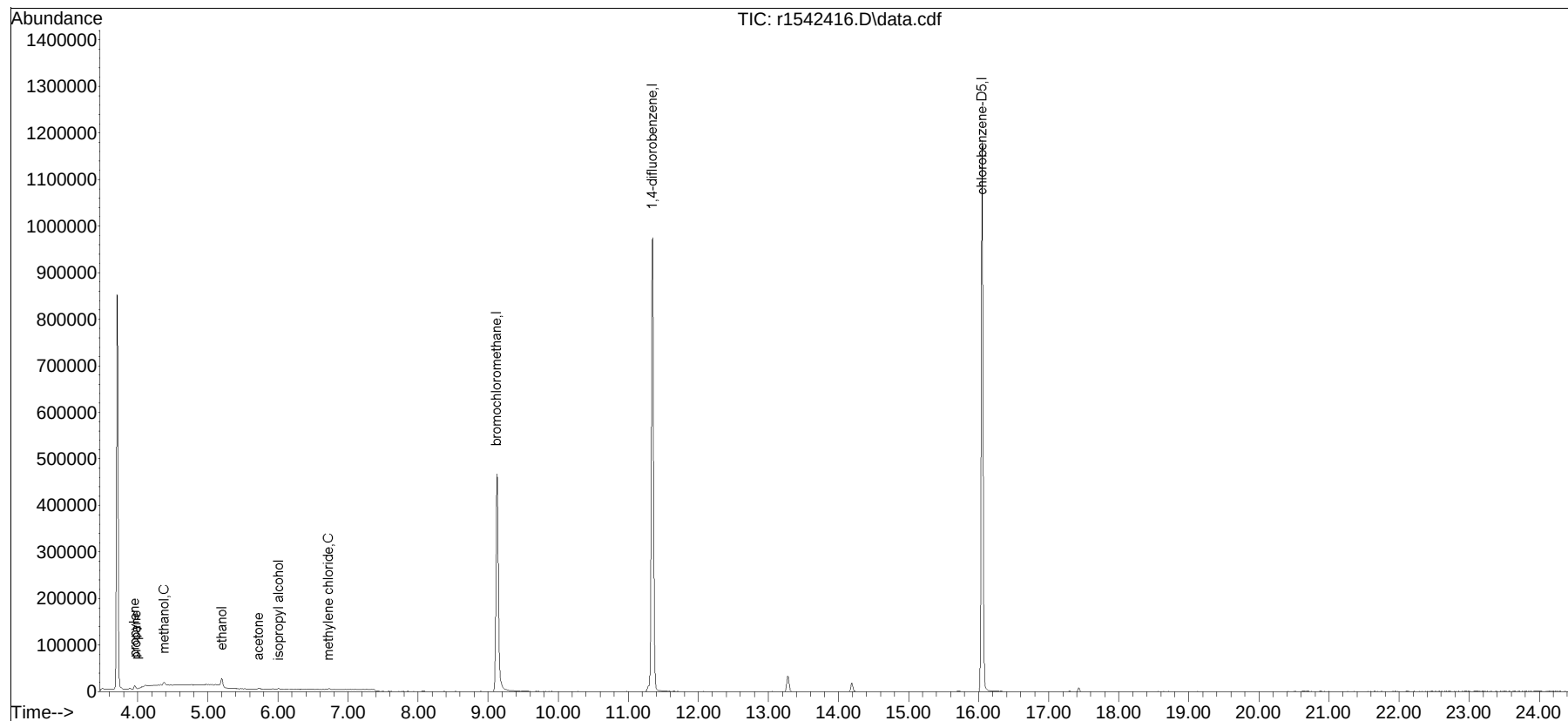
Quant Time: Jan 31 15:59:19 2024

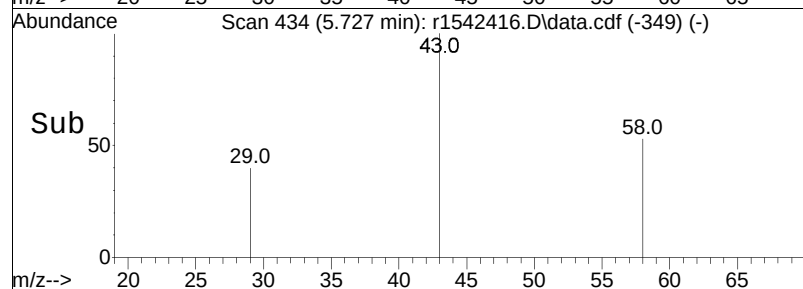
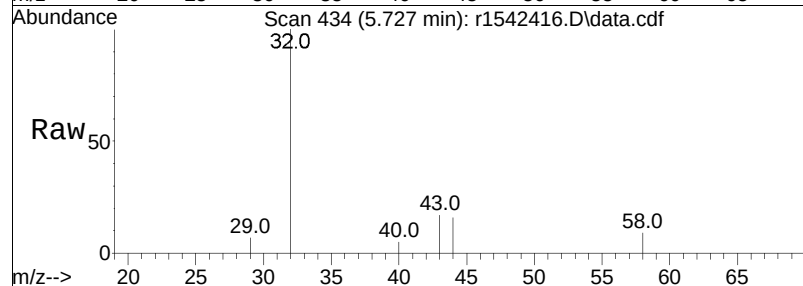
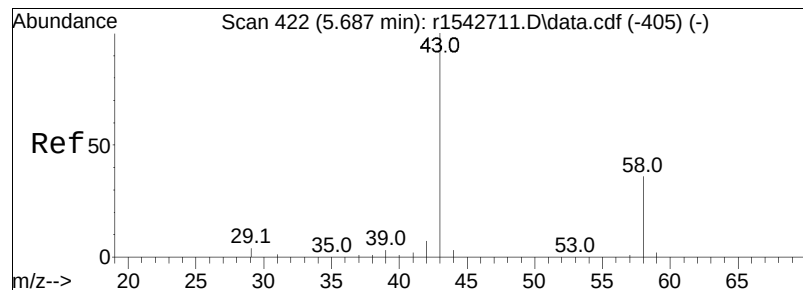
Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

QLast Update : Tue Nov 21 15:43:21 2023

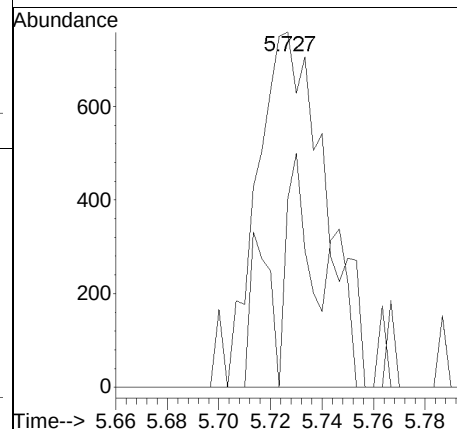
Response via : Initial Calibration

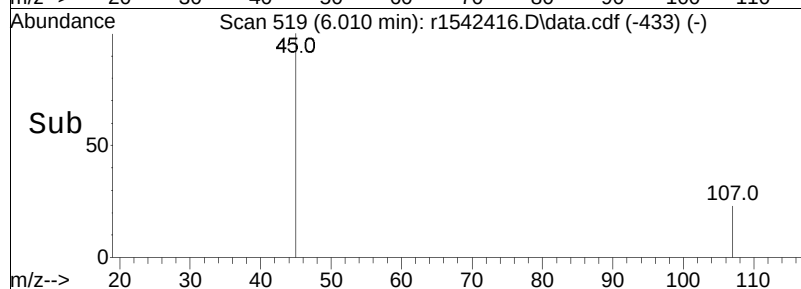
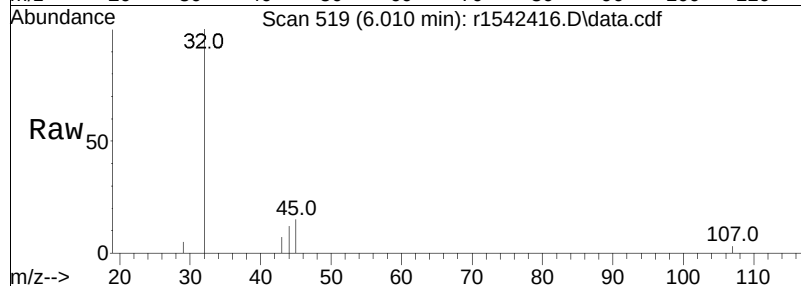
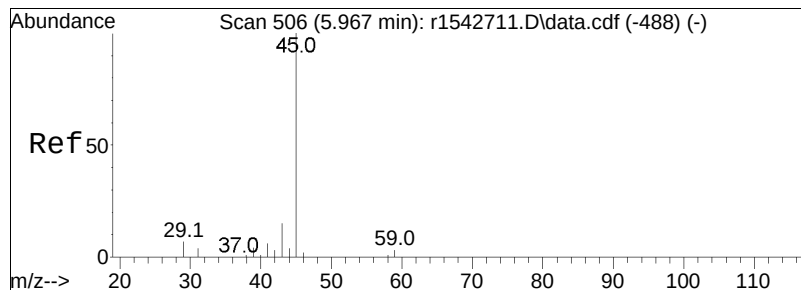




#19
acetone
Concen: 0.07 ppbV
RT: 5.727 min Scan# 434
Delta R.T. 0.083 min
Lab File: r1542416.D
Acq: 31 Jan 2024 2:23 PM

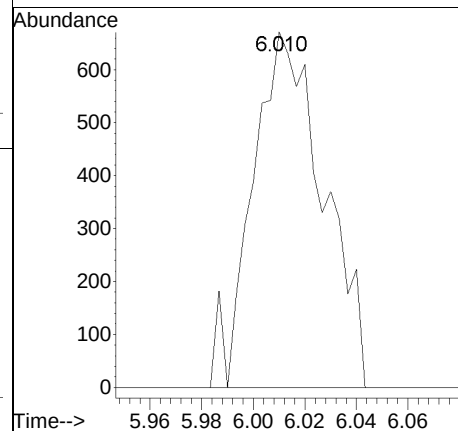
Tgt	Ion	Ratio	Resp	Lower	Upper
43	100		1408		
58	53.0	39.0		58.4	
57	0.0	0.9		1.3#	

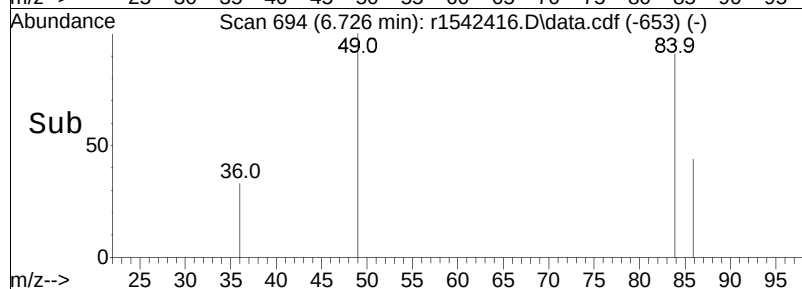
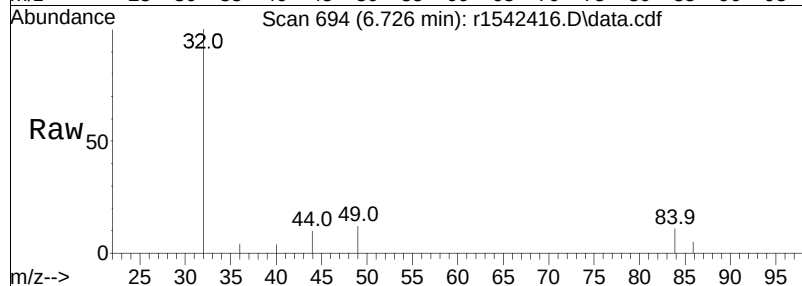
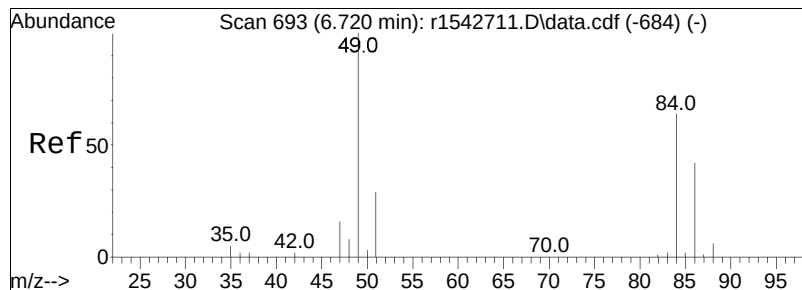




#22
isopropyl alcohol
Concen: 0.05 ppbV
RT: 6.010 min Scan# 519
Delta R.T. 0.087 min
Lab File: r1542416.D
Acq: 31 Jan 2024 2:23 PM

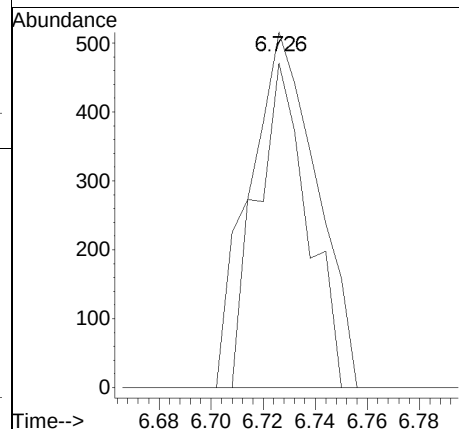
Tgt	Ion	Ratio	Lower	Upper
45	100			
59	0.0	4.6	6.8#	





#28
 methylene chloride
 Concen: 0.04 ppbV
 RT: 6.726 min Scan# 694
 Delta R.T. 0.048 min
 Lab File: r1542416.D
 Acq: 31 Jan 2024 2:23 PM

Tgt Ion:	49	84	Ratio	Lower	Upper
Resp:	929				
Ion Ratio	100	91.3			
			61.2	91.8	



Manual Integration Report

Data Path	: 0:\Forensics\Data\Airlab15Q	Method	: TFS15_231120.M
Data File	: r1542416.D	Operator	: AIRLAB15:JMB
Date Inj'd	: 1/31/2020 0:2: 3	Instrument	:
Sample	: WG1880230-4,3,250,250	Quant Date	: 1/31/2024 3:59 pm

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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\02\0201T\
 Data File : r1738300.D
 Acq On : 1 Feb 2024 6:07 PM
 Operator : AIRLAB17:JMB
 Sample : WG1880708-4,3,250,250
 Misc : WG1880708,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 19:57:56 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\02\0201T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\02\0201T\r1738297.D
 Sub List : Default-LCS-AP2 - All compounds listed

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

Internal Standards						
1) bromochloromethane	8.842	49	287931	10.000	ppbV	0.00
Standard Area = 342891			Recovery =		83.97%	
43) 1,4-difluorobenzene	11.077	114	749016	10.000	ppbV	0.00
Standard Area = 918799			Recovery =		81.52%	
67) chlorobenzene-D5	15.842	54	105135	10.000	ppbV	0.00
Standard Area = 130233			Recovery =		80.73%	

System Monitoring Compounds

Target Compounds					Qvalue
5) dichlorodifluoromethane	0.000		0	N.D.	
6) chloromethane	0.000		0	N.D.	
9) vinyl chloride	0.000		0	N.D.	
10) 1,3-butadiene	0.000		0	N.D.	
13) bromomethane	0.000		0	N.D.	
14) chloroethane	0.000		0	N.D.	
17) vinyl bromide	0.000		0	N.D.	
18) acrolein	0.000		0	N.D.	
19) acetone	5.463	43	1919	0.109 ppbV #	93
21) trichlorofluoromethane	0.000		0	N.D.	
22) isopropyl alcohol	5.727		0	N.D.	
23) acrylonitrile	0.000		0	N.D.	
26) 1,1-dichloroethene	0.000		0	N.D.	
28) methylene chloride	6.450	49	864	0.045 ppbV	90
29) 3-chloropropene	0.000		0	N.D.	
30) carbon disulfide	6.768		0	N.D.	
31) Freon 113	0.000		0	N.D.	
32) trans-1,2-dichloroethene	0.000		0	N.D.	
33) 1,1-dichloroethane	0.000		0	N.D.	
34) MTBE	0.000		0	N.D.	
37) cis-1,2-dichloroethene	0.000		0	N.D.	
39) chloroform	0.000		0	N.D.	
40) Tetrahydrofuran	0.000		0	N.D.	
42) 1,2-dichloroethane	0.000		0	N.D.	
44) hexane	0.000		0	N.D.	
48) 1,1,1-trichloroethane	0.000		0	N.D.	
50) benzene	0.000		0	N.D.	
52) carbon tetrachloride	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\02\0201T\
 Data File : r1738300.D
 Acq On : 1 Feb 2024 6:07 PM
 Operator : AIRLAB17:JMB
 Sample : WG1880708-4,3,250,250
 Misc : WG1880708,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 19:57:56 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\02\0201T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\02\0201T\r1738297.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) cyclohexane	0.000		0	N.D.	d	
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
59) trichloroethene	0.000		0	N.D.		
61) methyl methacrylate	12.157		0	N.D.		
64) 4-methyl-2-pentanone	13.017		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	14.050		0	N.D.		
71) 1,3-dichloropropane	0.000		0	N.D.		
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
78) tetrachloroethene	0.000		0	N.D.		
80) chlorobenzene	0.000		0	N.D.		
81) ethylbenzene	0.000		0	N.D.		
83) m+p-xylene	0.000		0	N.D.		
84) bromoform	0.000		0	N.D.		
85) styrene	0.000		0	N.D.		
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
87) o-xylene	0.000		0	N.D.		
91) isopropylbenzene	0.000		0	N.D.		
97) 1,3,5-trimethylbenzene	0.000		0	N.D.		
99) 1,2,4-trimethylbenzene	0.000		0	N.D.		
101) Benzyl Chloride	0.000		0	N.D.		
103) 1,4-dichlorobenzene	0.000		0	N.D.		
107) 1,2-dichlorobenzene	0.000		0	N.D.		
115) 1,2,4-trichlorobenzene	0.000		0	N.D.		
116) naphthalene	20.533		0	N.D.		

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

Sub List : Default-LCS-AP2 - All compounds listed1T\r1738297.D

Data Path : 0:\Forensics\Data\Airlab17\2024\02\0201T\

Data File : r1738300.D

Acq On : 1 Feb 2024 6:07 PM

Operator : AIRLAB17:JMB

Sample : WG1880708-4,3,250,250

Misc : WG1880708,ICAL20743

ALS Vial : 0 Sample Multiplier: 1

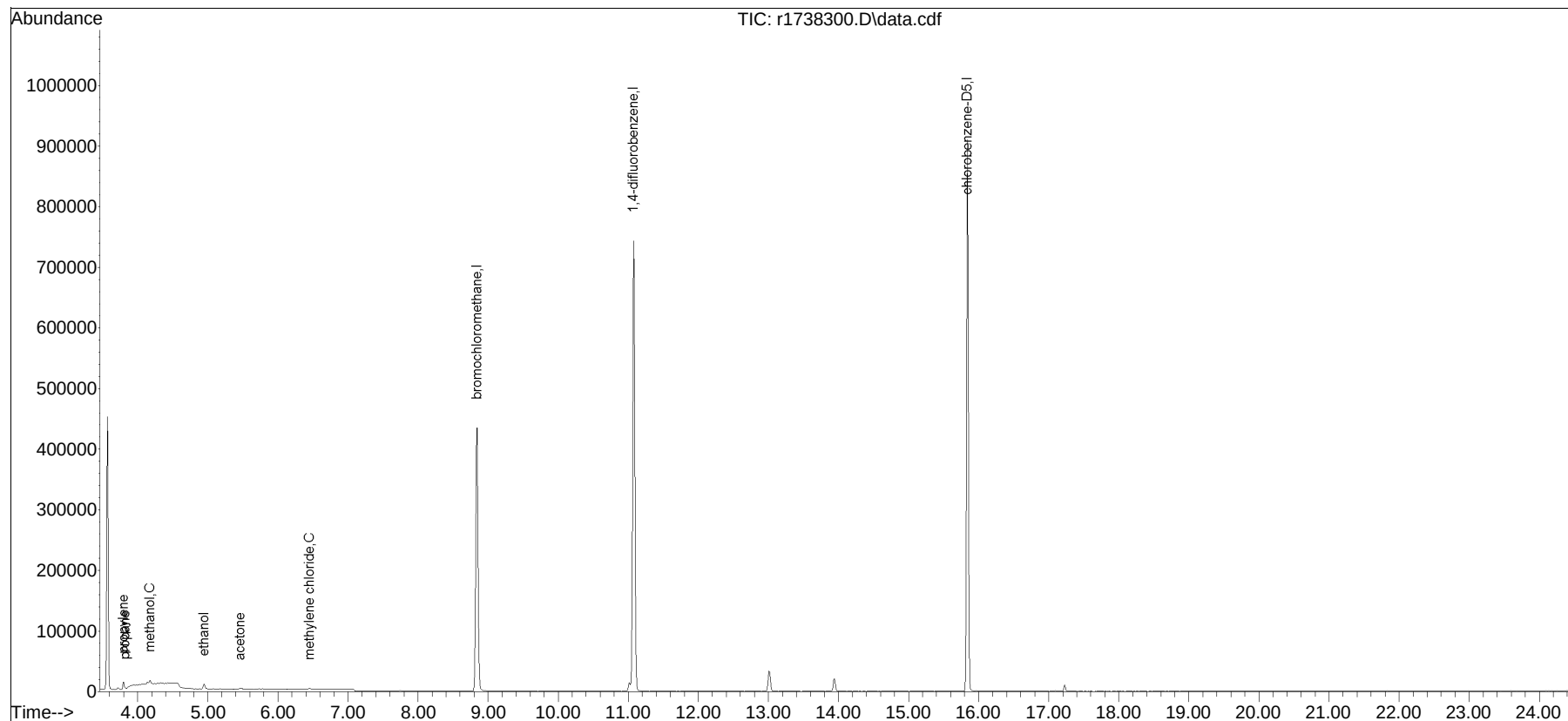
Quant Time: Feb 01 19:57:56 2024

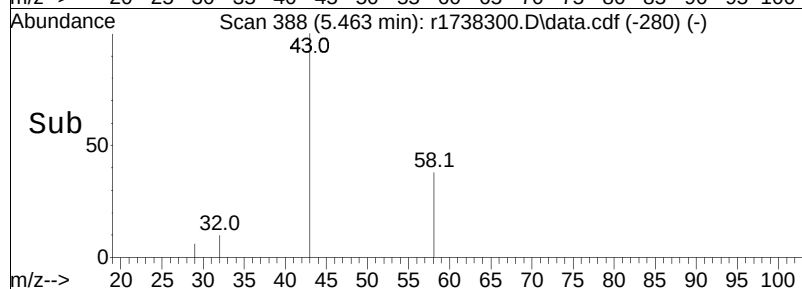
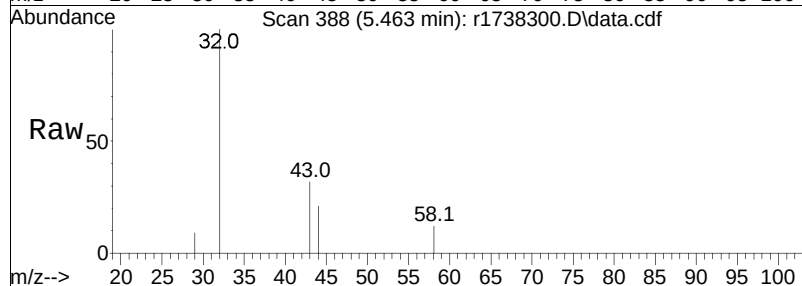
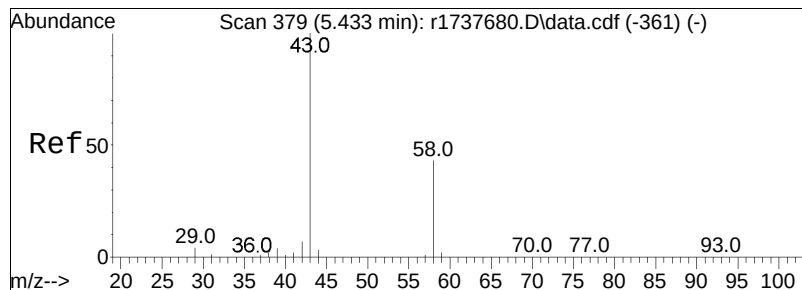
Quant Method : 0:\Forensics\Data\Airlab17\2024\02\0201T\TFS17_240107.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

QLast Update : Mon Jan 08 15:04:31 2024

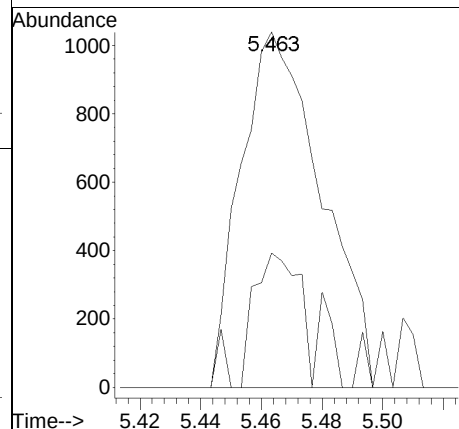
Response via : Initial Calibration

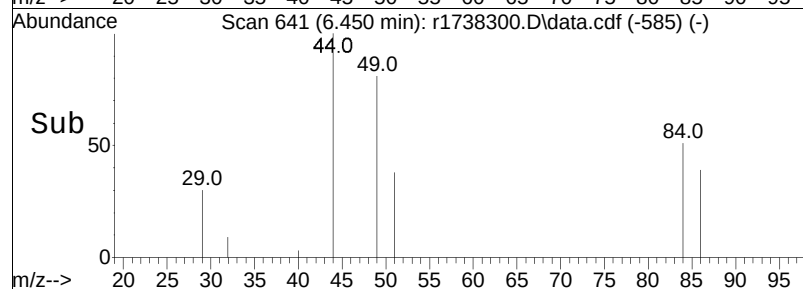
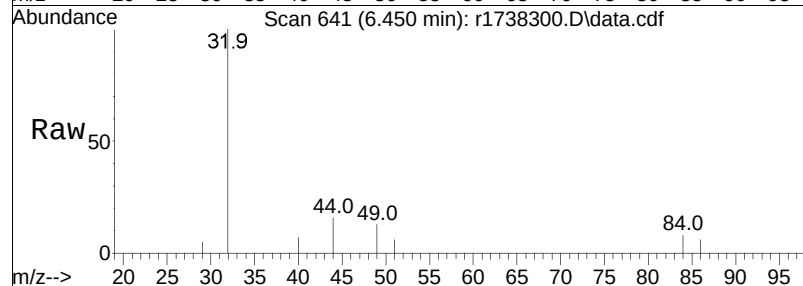
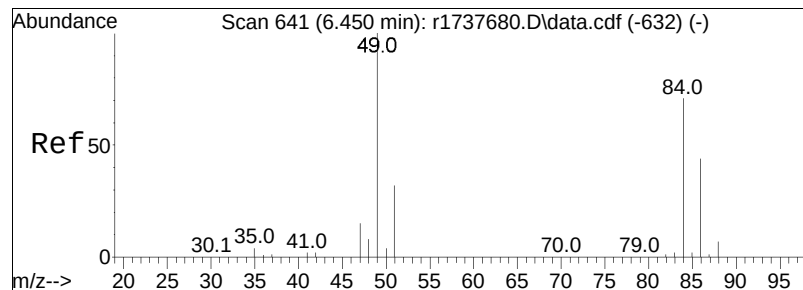




#19
acetone
Concen: 0.11 ppbV
RT: 5.463 min Scan# 388
Delta R.T. 0.030 min
Lab File: r1738300.D
Acq: 1 Feb 2024 6:07 PM

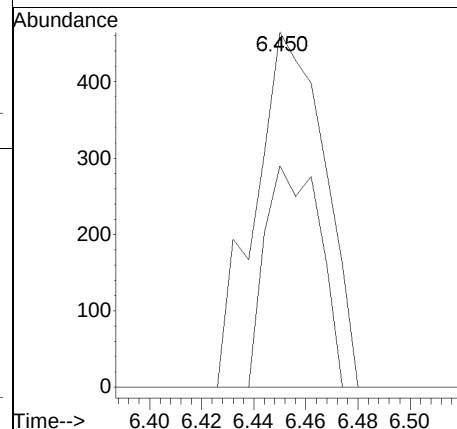
Tgt Ion	Ratio	Lower	Upper
43	100		
58	37.8	34.0	51.0
57	0.0	0.9	1.3#





#28
 methylene chloride
 Concen: 0.04 ppbV
 RT: 6.450 min Scan# 641
 Delta R.T. 0.000 min
 Lab File: r1738300.D
 Acq: 1 Feb 2024 6:07 PM

Tgt Ion:	49	84	Resp:	864
Ion Ratio	100	62.4	Lower	Upper
			56.7	85.1



Manual Integration Report

Data Path	: 0:\Forensics\Data\Airlab17Q	Method	: TFS17_240107.M
Data File	: r1738300.D	Operator	: AIRLAB17:JMB
Date Inj'd	: 2/1/2020 0:6: 7	Instrument	:
Sample	: WG1880708-4,3,250,250	Quant Date	: 2/1/2024 7:57 pm

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

LSC Area Percent Report

Data Path : 0:\Forensics\Data\Airlab17\2024\02\0201T\
 Data File : r1738300.D
 Acq On : 1 Feb 2024 6:07 PM
 Operator : AIRLAB17:JMB
 Sample : WG1880708-4,3,250,250
 Misc : WG1880708,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : OFF

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 1 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : 0:\Forensics\Data\Airlab17\2024\02\0201T\TFS17_240107.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis

Signal : TIC: r1738300.D\data.cdf

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.842	947	954	966	rBV	435141	961105	60.68%	22.461%
2	11.017	1228	1236	1238	rBV	14159	27716	1.75%	0.648%
3	11.077	1238	1245	1260	rVB	742570	1583836	100.00%	37.015%
4	13.008	1512	1518	1524	rBV	33515	77305	4.88%	1.807%
5	13.942	1624	1630	1636	rVB	20819	44236	2.79%	1.034%
6	15.842	1850	1856	1868	rBV	909664	1568176	99.01%	36.649%
7	17.225	2019	2022	2027	rBV	10704	16547	1.04%	0.387%

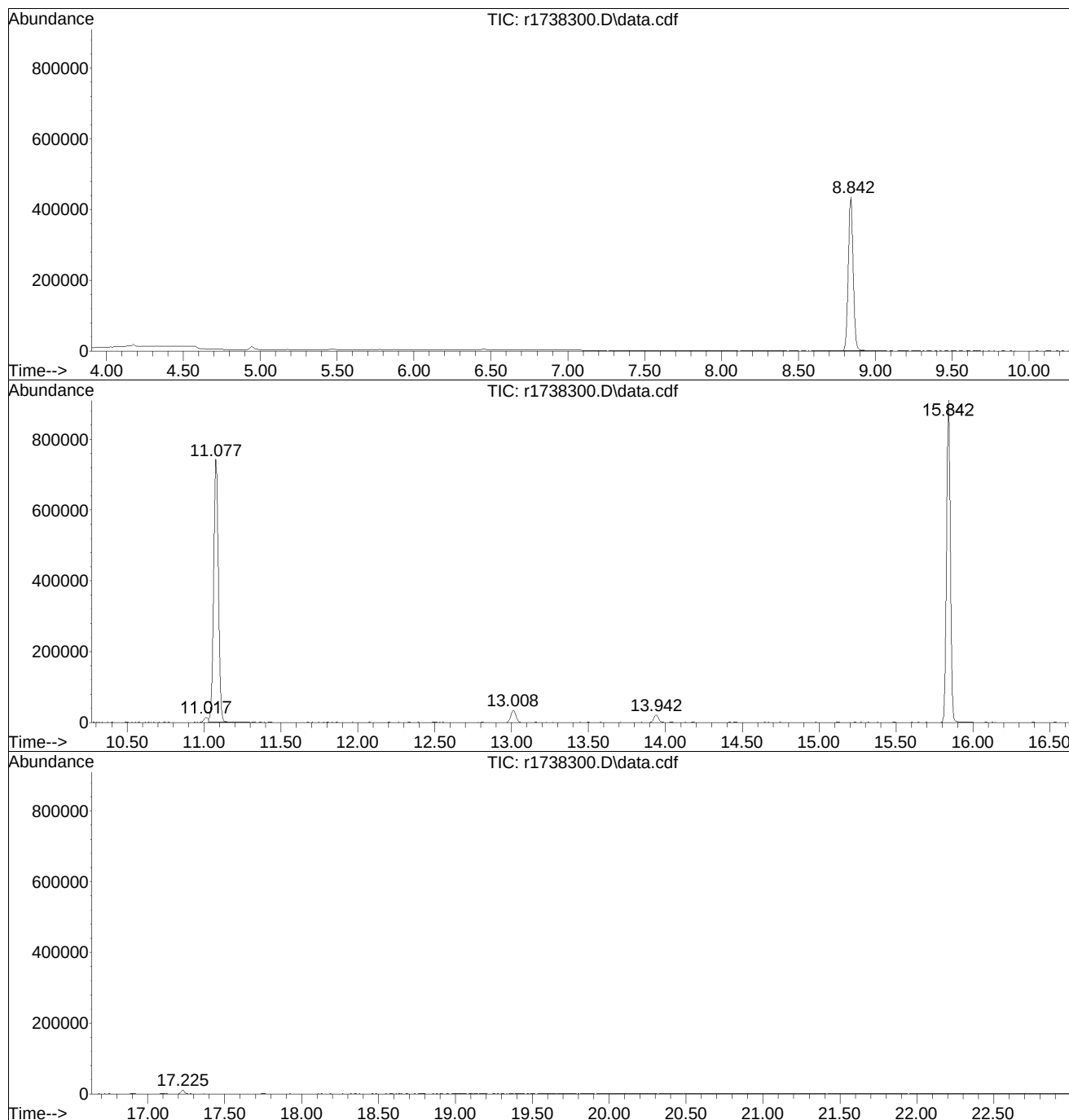
Sum of corrected areas: 4278921

LSC Report - Integrated Chromatogram

Data Path : 0:\Forensics\Data\Airlab17\2024\02\0201T\
Data File : r1738300.D
Acq On : 1 Feb 2024 6:07 PM
Operator : AIRLAB17:JMB
Sample : WG1880708-4,3,250,250
Misc : WG1880708,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

Quant Method : 0:\Forensics\Data\Airlab17\2024\02\0201T\TFS17_240107.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

TIC Library : 0:\Organics\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : 0:\Forensics\Data\Airlab17\2024\02\0201T\
Data File : r1738300.D
Acq On : 1 Feb 2024 6:07 PM
Operator : AIRLAB17:JMB
Sample : WG1880708-4,3,250,250
Misc : WG1880708,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

Quant Method : 0:\Forensics\Data\Airlab17\2024\02\0201T\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis

TIC Library : 0:\Organics\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Tentatively Identified Compound (LSC) summary

Data Path : 0:\Forensics\Data\Airlab17\2024\02\0201T\
 Data File : r1738300.D
 Acq On : 1 Feb 2024 6:07 PM
 Operator : AIRLAB17:JMB
 Sample : WG1880708-4,3,250,250
 Misc : WG1880708,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Method : 0:\Forensics\Data\Airlab17\2024\02\0201T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis

TIC Library : 0:\Organics\DATABASE\NIST02.L
 TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--
					# RT Resp Conc

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542414.D
 Acq On : 31 Jan 2024 12:18 PM
 Operator : AIRLAB15:JMB
 Sample : WG1880230-3,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 31 13:31:08 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	bromochloromethane	10.000	10.000	0.0	108	0.05
2	chlorodifluoromethane	10.000	8.761	12.4	98	0.03
3	propylene	10.000	10.495	-4.9	118	0.04
4	propane	10.000	9.294	7.1	99	0.04
5	dichlorodifluoromethane	10.000	9.005	9.9	97	0.04
6 C	chloromethane	10.000	10.173	-1.7	112	0.04
7	Freon-114	10.000	10.998	-10.0	117	0.04
8 C	methanol	50.000	42.433	15.1	89	0.04
9 C	vinyl chloride	10.000	10.136	-1.4	108	0.04
10 C	1,3-butadiene	10.000	10.696	-7.0	116	0.04
11	butane	10.000	12.608	-26.1	146	0.04
13 C	bromomethane	10.000	9.962	0.4	106	0.04
14 C	chloroethane	10.000	10.924	-9.2	121	0.04
15	ethanol	50.000	51.616	-3.2	100	0.05
16	dichlorofluoromethane	10.000	11.378	-13.8	128	0.04
17 C	vinyl bromide	10.000	10.848	-8.5	122	0.05
18 C	acrolein	10.000	10.072	-0.7	107	0.05
19	acetone	50.000	64.898	-29.8	146	0.05
20 C	acetonitrile	10.000	12.303	-23.0	144	0.05
21	trichlorofluoromethane	10.000	11.268	-12.7	120	0.05
22	isopropyl alcohol	25.000	26.250	-5.0	121	0.05
23 C	acrylonitrile	10.000	8.055	19.5	91	0.05
24	pentane	10.000	9.609	3.9	106	0.05
25	ethyl ether	10.000	9.396	6.0	101	0.05
26 C	1,1-dichloroethene	10.000	10.360	-3.6	114	0.05
27	tertiary butyl alcohol	10.000	9.452	5.5	107	0.05
28 C	methylene chloride	10.000	9.408	5.9	101	0.05
29 C	3-chloropropene	10.000	11.163	-11.6	125	0.05
30 C	carbon disulfide	10.000	9.034	9.7	98	0.05
31	Freon 113	10.000	9.718	2.8	108	0.05
32	trans-1,2-dichloroethene	10.000	10.075	-0.7	114	0.05
33 C	1,1-dichloroethane	10.000	9.946	0.5	110	0.06
34 C	MTBE	10.000	9.273	7.3	103	0.06
35 C	vinyl acetate	10.000	9.389	6.1	107	0.05
36 C	2-butanone	10.000	10.507	-5.1	118	0.06
37	cis-1,2-dichloroethene	10.000	10.024	-0.2	109	0.05
38	Ethyl Acetate	10.000	10.703	-7.0	120	0.05
39 C	chloroform	10.000	8.903	11.0	94	0.06
40	Tetrahydrofuran	10.000	10.137	-1.4	114	0.05

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542414.D
 Acq On : 31 Jan 2024 12:18 PM
 Operator : AIRLAB15:JMB
 Sample : WG1880230-3,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 31 13:31:08 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	2,2-dichloropropane	10.000	9.550	4.5	103	0.05
42 C	1,2-dichloroethane	10.000	10.796	-8.0	118	0.05
43 I	1,4-difluorobenzene	10.000	10.000	0.0	101	0.05
44 C	hexane	10.000	11.799	-18.0	117	0.05
45	diisopropyl ether	10.000	9.408	5.9	93	0.05
46	tert-butyl ethyl ether	10.000	9.971	0.3	100	0.05
48 C	1,1,1-trichloroethane	10.000	11.221	-12.2	111	0.05
49	1,1-dichloropropene	10.000	10.614	-6.1	106	0.05
50 C	benzene	10.000	9.386	6.1	92	0.05
52 C	carbon tetrachloride	10.000	10.428	-4.3	98	0.05
53	cyclohexane	10.000	11.223	-12.2	113	0.05
54	tert-amyl methyl ether	10.000	9.219	7.8	93	0.05
55	dibromomethane	10.000	10.573	-5.7	107	0.05
56 C	1,2-dichloropropane	10.000	10.393	-3.9	104	0.05
57	bromodichloromethane	10.000	11.106	-11.1	106	0.05
58 C	1,4-dioxane	10.000	10.374	-3.7	103	0.05
59 C	trichloroethene	10.000	9.593	4.1	95	0.05
60 C	2,2,4-trimethylpentane	10.000	11.771	-17.7	116	0.05
61	methyl methacrylate	10.000	13.008	-30.1#	130	0.05
62	heptane	10.000	11.898	-19.0	119	0.05
63 C	cis-1,3-dichloropropene	10.000	9.833	1.7	92	0.05
64 C	4-methyl-2-pentanone	10.000	11.827	-18.3	116	0.05
65	trans-1,3-dichloropropene	10.000	9.798	2.0	90	0.05
66 C	1,1,2-trichloroethane	10.000	10.017	-0.2	100	0.05
67 I	chlorobenzene-D5	10.000	10.000	0.0	109	0.04
68 C	toluene	10.000	8.970	10.3	99	0.04
71	1,3-dichloropropane	10.000	8.938	10.6	100	0.04
72	2-hexanone	10.000	10.643	-6.4	118	0.04
74	dibromochloromethane	10.000	10.631	-6.3	114	0.04
75 C	1,2-dibromoethane	10.000	8.571	14.3	95	0.04
76	butyl acetate	10.000	8.443	15.6	93	0.04
77	octane	10.000	8.302	17.0	93	0.03
78 C	tetrachloroethene	10.000	7.851	21.5	87	0.04
79	1,1,1,2-tetrachloroethane	10.000	9.106	8.9	100	0.04
80 C	chlorobenzene	10.000	8.322	16.8	90	0.04
81 C	ethylbenzene	10.000	8.852	11.5	96	0.03
83 C	m+p-xylene	20.000	18.639	6.8	99	0.03

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542414.D
 Acq On : 31 Jan 2024 12:18 PM
 Operator : AIRLAB15:JMB
 Sample : WG1880230-3,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 31 13:31:08 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
84 C	bromoform	10.000	9.715	2.9	102	0.03
85 C	styrene	10.000	8.280	17.2	90	0.03
86 C	1,1,2,2-tetrachloroethane	10.000	8.942	10.6	91	0.03
87 C	o-xylene	10.000	9.585	4.1	100	0.02
88	1,2,3-trichloropropane	10.000	8.947	10.5	99	0.03
89	nonane	10.000	9.734	2.7	107	0.03
91 C	isopropylbenzene	10.000	9.162	8.4	102	0.03
92	bromobenzene	10.000	8.692	13.1	96	0.03
93	2-chlorotoluene	10.000	8.248	17.5	91	0.03
94	n-propylbenzene	10.000	8.380	16.2	91	0.02
95	4-chlorotoluene	10.000	8.125	18.8	89	0.03
96	4-ethyl toluene	10.000	9.537	4.6	105	0.03
97	1,3,5-trimethylbenzene	10.000	9.449	5.5	95	0.03
98	tert-butylbenzene	10.000	8.681	13.2	91	0.03
99	1,2,4-trimethylbenzene	10.000	9.526	4.7	95	0.03
100	decane	10.000	10.028	-0.3	104	0.02
101 C	Benzyl Chloride	10.000	9.535	4.6	95	0.03
102	1,3-dichlorobenzene	10.000	8.549	14.5	89	0.03
103 C	1,4-dichlorobenzene	10.000	8.690	13.1	91	0.03
104	sec-butylbenzene	10.000	9.327	6.7	100	0.03
106	p-isopropyltoluene	10.000	8.627	13.7	99	0.03
107	1,2-dichlorobenzene	10.000	8.468	15.3	86	0.03
108	n-butylbenzene	10.000	9.869	1.3	101	0.03
111 C	1,2-dibromo-3-chloropropane	10.000	10.073	-0.7	103	0.03
112	undecane	10.000	10.523	-5.2	102	0.03
114	dodecane	10.000	11.362	-13.6	97	0.03
115 C	1,2,4-trichlorobenzene	10.000	8.252	17.5	75	0.03
116	naphthalene	10.000	9.141	8.6	87	0.03
117	1,2,3-trichlorobenzene	10.000	8.668	13.3	83	0.03
119 C	hexachlorobutadiene	10.000	8.338	16.6	78	0.03

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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542414.D
 Acq On : 31 Jan 2024 12:18 PM
 Operator : AIRLAB15:JMB
 Sample : WG1880230-3,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 31 13:31:08 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131T\r1542413.D
 Sub List : Default-LCS-AP2 - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.125	49	371971	10.000	ppbV	0.05
Standard Area = 375210			Recovery =	99.14%		
43) 1,4-difluorobenzene	11.340	114	984954	10.000	ppbV	# 0.05
Standard Area = 971110			Recovery =	101.43%		
67) chlorobenzene-D5	16.050	54	182555	10.000	ppbV	0.04
Standard Area = 187857			Recovery =	97.18%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	4.030	85	381463	9.005	ppbV	99
6) chloromethane	4.192	50	162054	10.173	ppbV	97
9) vinyl chloride	4.426	62	235474	10.136	ppbV	96
10) 1,3-butadiene	4.570	54	166523	10.696	ppbV	# 72
13) bromomethane	4.852	94	185365	9.962	ppbV	97
14) chloroethane	5.044	64	124649	10.924	ppbV	98
17) vinyl bromide	5.427	106	186365	10.848	ppbV	95
18) acrolein	5.553	56	87061	10.072	ppbV	98
19) acetone	5.690	43	1362572	64.898	ppbV	# 83
21) trichlorofluoromethane	5.883	101	356738	11.268	ppbV	96
22) isopropyl alcohol	5.973	45	694387	26.250	ppbV	97
23) acrylonitrile	6.207	53	151890	8.055	ppbV	98
26) 1,1-dichloroethene	6.582	61	378156	10.360	ppbV	96
28) methylene chloride	6.726	49	269859	9.408	ppbV	94
29) 3-chloropropene	6.858	41	360732	11.163	ppbV	94
30) carbon disulfide	7.032	76	608491	9.034	ppbV	97
31) Freon 113	7.020	101	403303	9.718	ppbV	88
32) trans-1,2-dichloroethene	7.775	61	367883	10.075	ppbV	94
33) 1,1-dichloroethane	8.000	63	457831	9.946	ppbV	98
34) MTBE	8.067	73	515360	9.273	ppbV	97
37) cis-1,2-dichloroethene	8.942	61	349419	10.024	ppbV	96
39) chloroform	9.283	83	406101	8.903	ppbV	97
40) Tetrahydrofuran	9.717	42	313065	10.137	ppbV	93
42) 1,2-dichloroethane	10.108	62	298281	10.796	ppbV	95
44) hexane	9.192	57	508343	11.799	ppbV	98
48) 1,1,1-trichloroethane	10.400	97	357167	11.221	ppbV	96
50) benzene	10.927	78	748214	9.386	ppbV	99
52) carbon tetrachloride	11.093	117	309414	10.428	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542414.D
 Acq On : 31 Jan 2024 12:18 PM
 Operator : AIRLAB15:JMB
 Sample : WG1880230-3,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 31 13:31:08 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

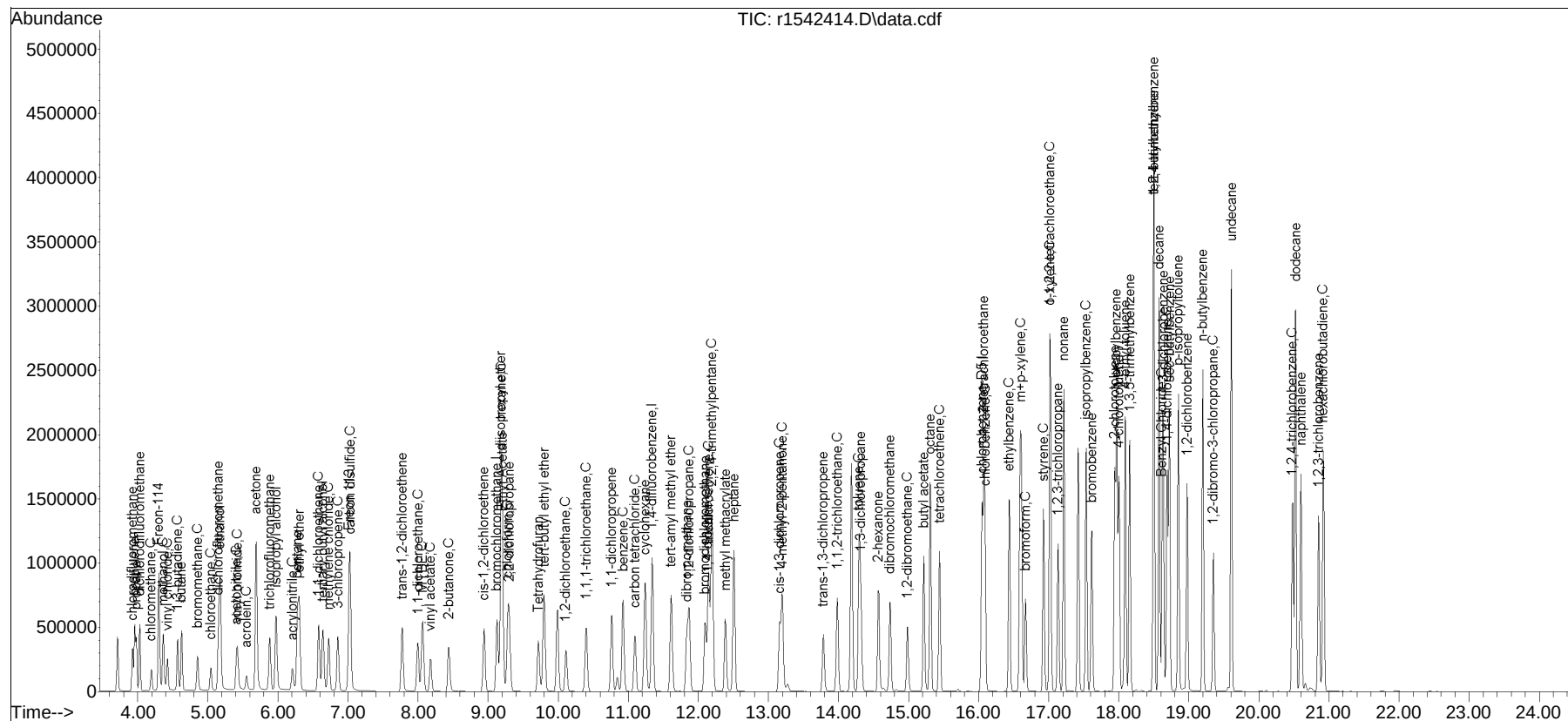
CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131T\r1542413.D
 Sub List : Default-LCS-AP2 - All compounds listed

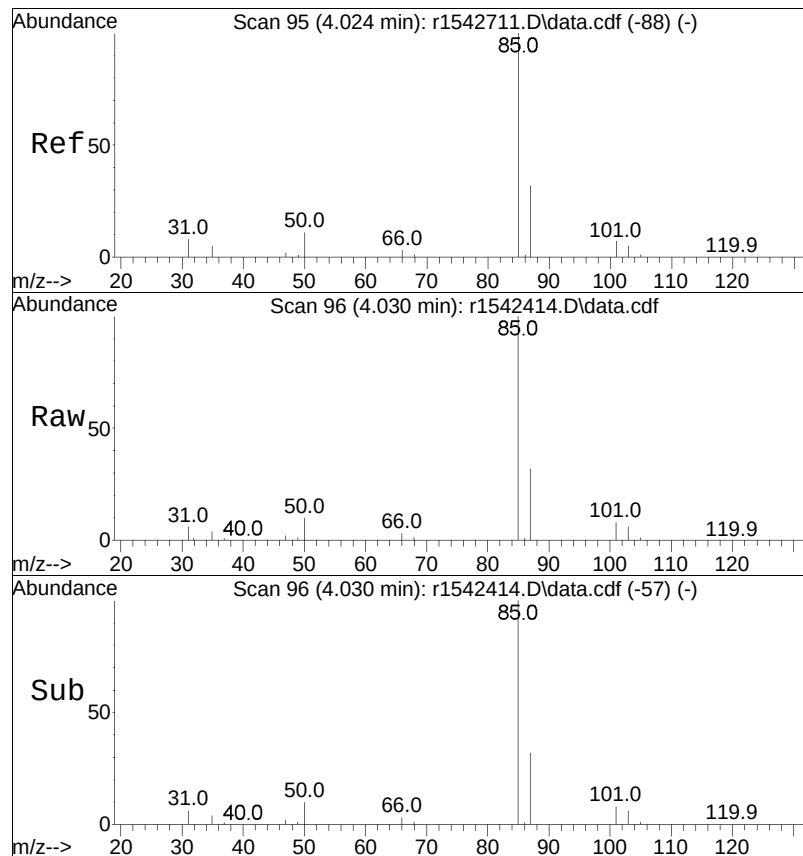
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
53)	cyclohexane	11.240	56	526847	11.223	ppbV	92
56)	1,2-dichloropropane	11.867	63	300868	10.393	ppbV	96
57)	bromodichloromethane	12.093	83	441532	11.106	ppbV	99
58)	1,4-dioxane	12.133	88	190566	10.374	ppbV	90
59)	trichloroethene	12.147	130	301735	9.593	ppbV	98
61)	methyl methacrylate	12.387	41	355371	13.008	ppbV	93
64)	4-methyl-2-pentanone	13.200	43	635273	11.827	ppbV	96
66)	1,1,2-trichloroethane	13.983	97	287795	10.017	ppbV	90
68)	toluene	14.292	91	939012	8.970	ppbV	99
71)	1,3-dichloropropane	14.317	76	415864	8.938	ppbV	88
74)	dibromochloromethane	14.733	129	432812	10.631	ppbV	98
75)	1,2-dibromoethane	14.983	107	405656	8.571	ppbV	95
78)	tetrachloroethene	15.442	166	329840	7.851	ppbV #	86
80)	chlorobenzene	16.092	112	680813	8.322	ppbV	96
81)	ethylbenzene	16.433	91	1186733	8.852	ppbV	96
83)	m+p-xylene	16.600	91	1970857	18.639	ppbV	94
84)	bromoform	16.667	173	343628	9.715	ppbV	99
85)	styrene	16.925	104	709534	8.280	ppbV	99
86)	1,1,2,2-tetrachloroethane	17.017	83	711271	8.942	ppbV	100
87)	o-xylene	17.017	91	1010914	9.585	ppbV	98
91)	isopropylbenzene	17.533	105	1227910	9.162	ppbV	96
97)	1,3,5-trimethylbenzene	18.158	105	1242203	9.449	ppbV	95
99)	1,2,4-trimethylbenzene	18.500	105	1127705	9.526	ppbV	95
101)	Benzyl Chloride	18.617	91	679029	9.535	ppbV	98
103)	1,4-dichlorobenzene	18.692	146	721171M3	8.690	ppbV	
107)	1,2-dichlorobenzene	18.975	146	669216	8.468	ppbV	94
115)	1,2,4-trichlorobenzene	20.475	180	506607	8.252	ppbV	95
116)	naphthalene	20.600	128	1464049	9.141	ppbV	98

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

```
Data Path : 0:\Forensics\Data\AirLab15\2024\01\0131T\
Data File : r1542414.D
Acq On    : 31 Jan 2024 12:18 PM
Operator  : AIRLAB15:JMB
Sample    : WG1880230-3,3,250,250
Misc      : WG1880230,ICAL20574
ALS Vial  : 0 Sample Multiplier: 1
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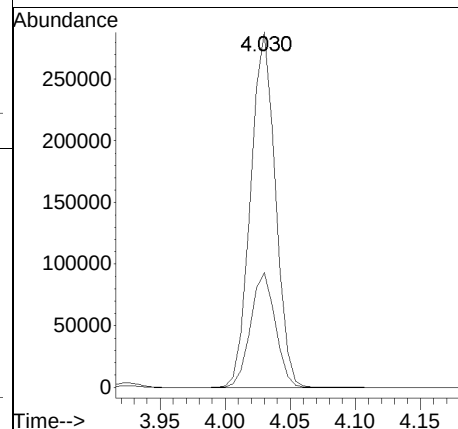
Quant Time: Jan 31 13:31:08 2024
Quant Method : 0:\Forensics\Data\AirLab15\2024\01\0131T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 15:43:21 2023
Response via : Initial Calibration

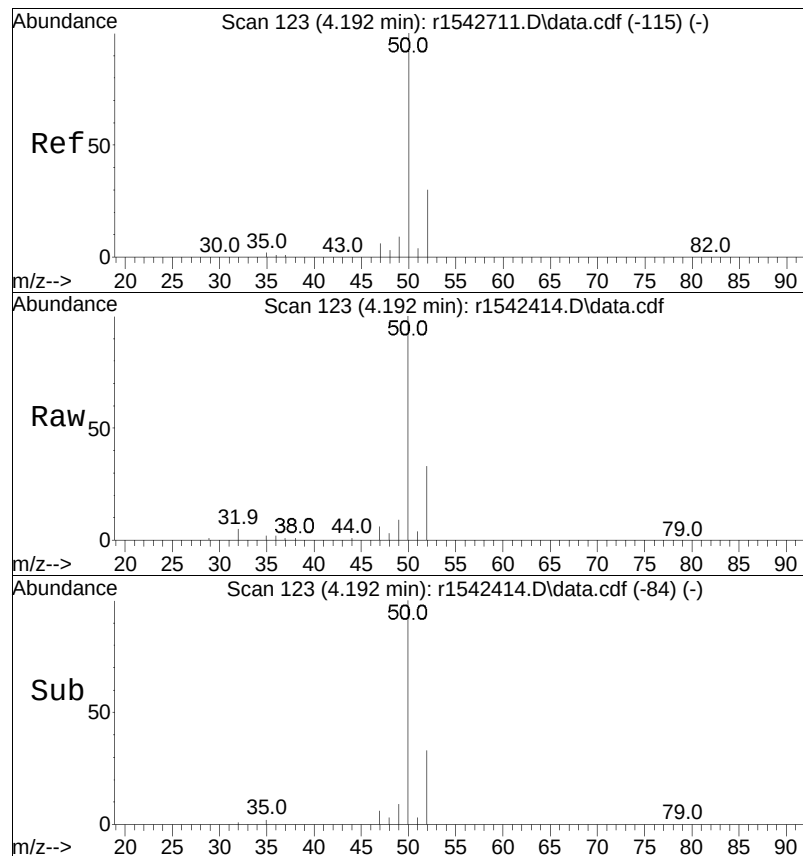




#5
 dichlorodifluoromethane
 Concen: 9.00 ppbV
 RT: 4.030 min Scan# 96
 Delta R.T. 0.036 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

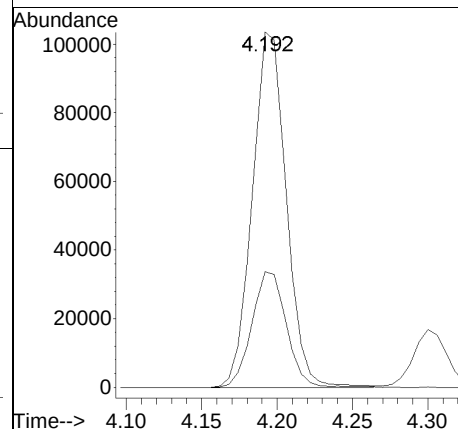
Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.3	26.1	39.1

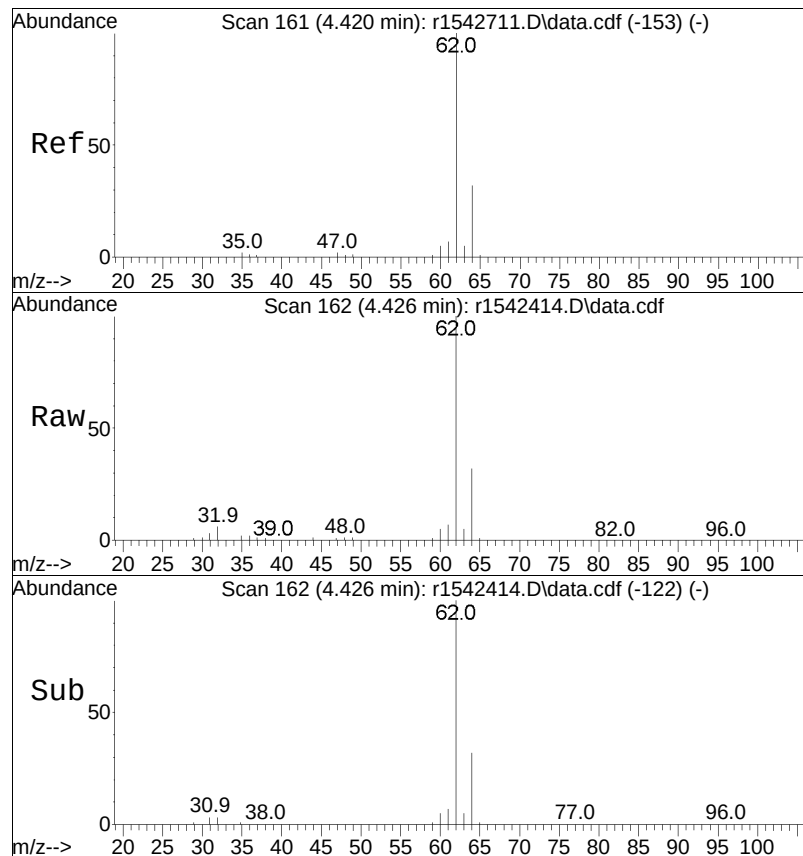




#6
 chloromethane
 Concen: 10.17 ppbV
 RT: 4.192 min Scan# 123
 Delta R.T. 0.036 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

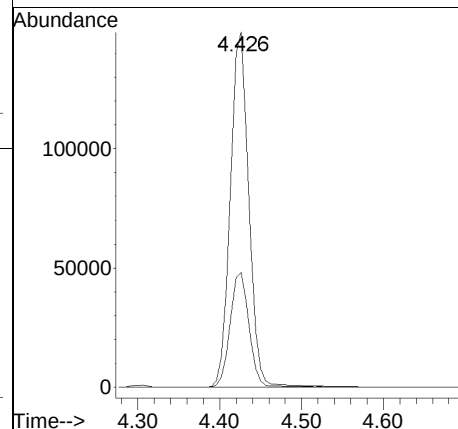
Tgt Ion	Ratio	Lower	Upper
50	100		
52	32.5	27.4	41.2

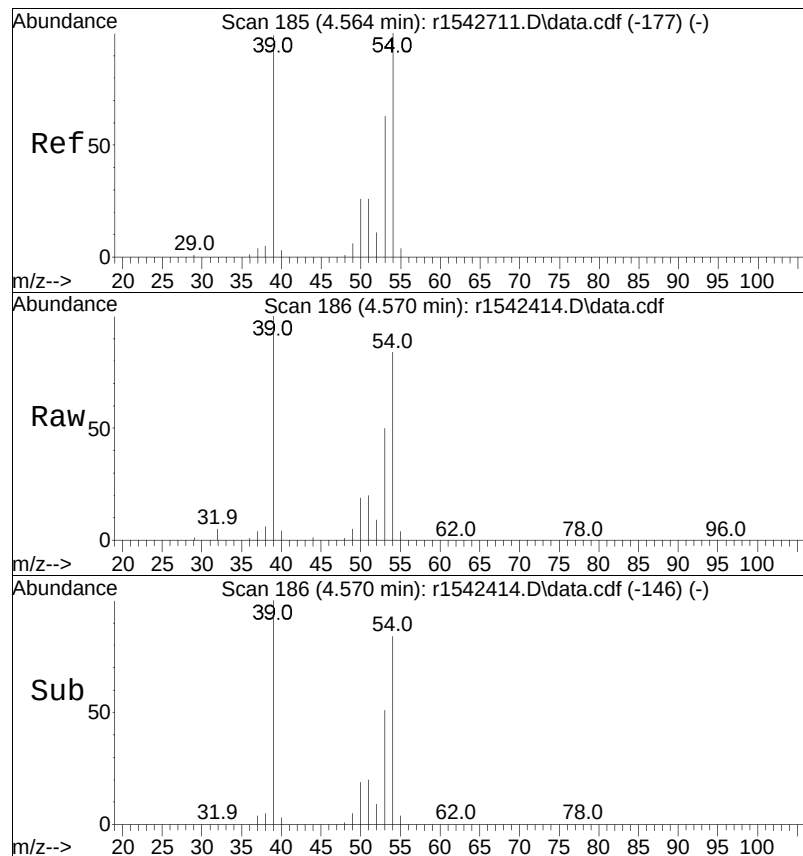




#9
 vinyl chloride
 Concen: 10.14 ppbV
 RT: 4.426 min Scan# 162
 Delta R.T. 0.042 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

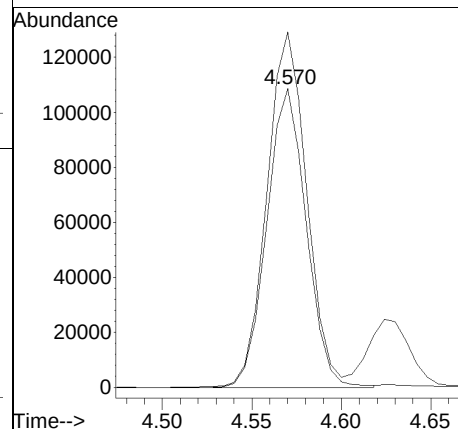
Tgt Ion	Ratio	Lower	Upper
62	100		
64	32.3	24.2	36.2

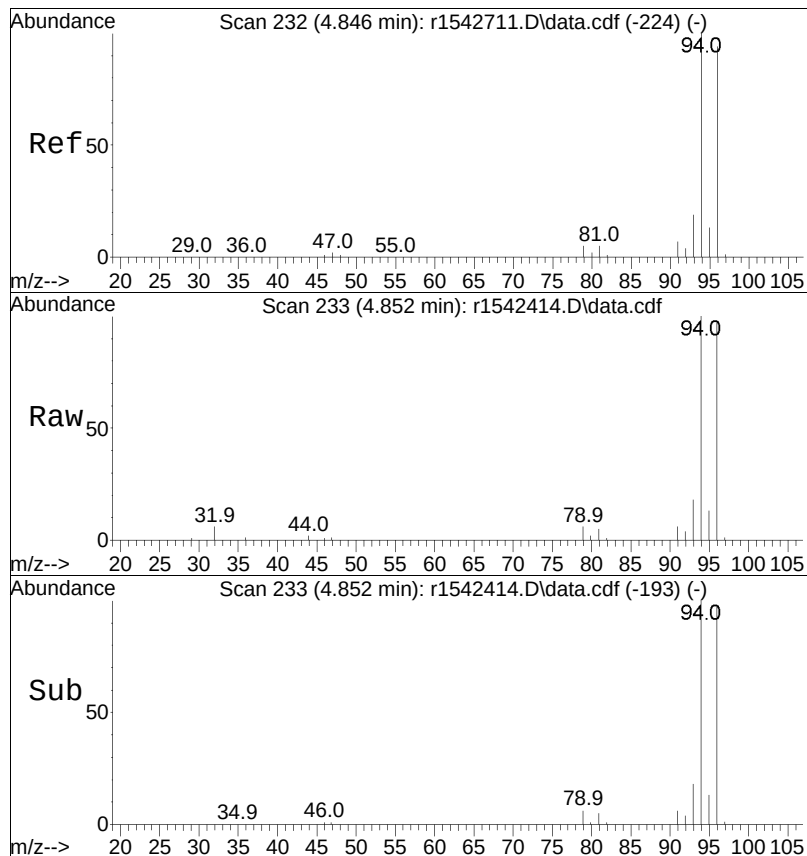




#10
 1,3-butadiene
 Concen: 10.70 ppbV
 RT: 4.570 min Scan# 186
 Delta R.T. 0.042 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

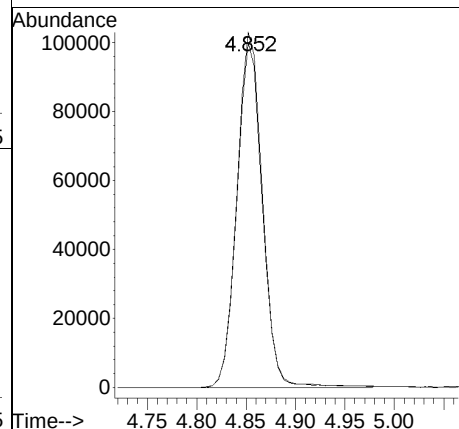
Tgt	Ion	Resp	Lower	Upper
54	100	166523		
39	118.9	73.8	110.8#	

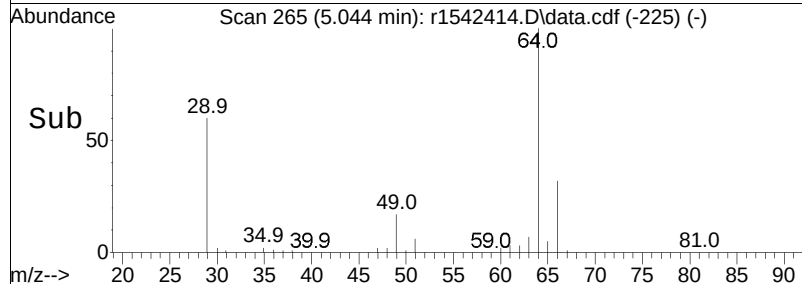
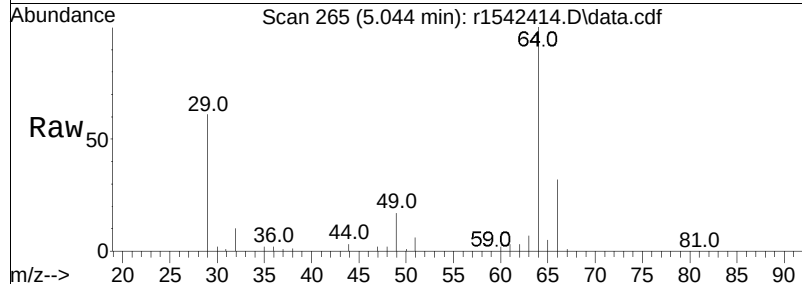
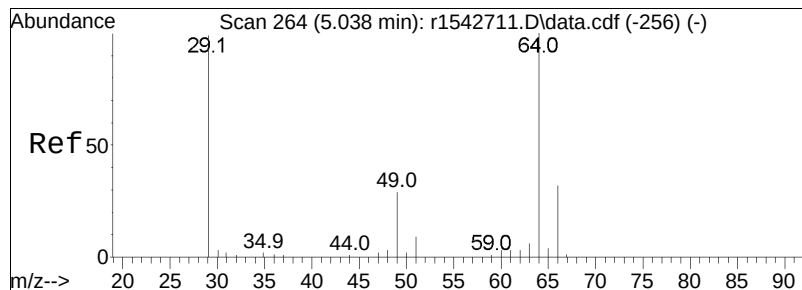




#13
bromomethane
Concen: 9.96 ppbV
RT: 4.852 min Scan# 233
Delta R.T. 0.042 min
Lab File: r1542414.D
Acq: 31 Jan 2024 12:18 PM

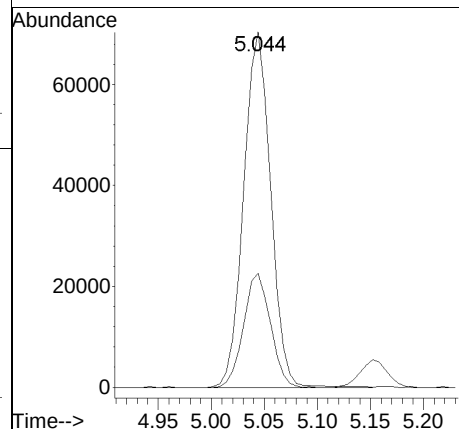
Tgt Ion	Ratio	Lower	Upper
94	100		
96	97.0	75.4	113.2

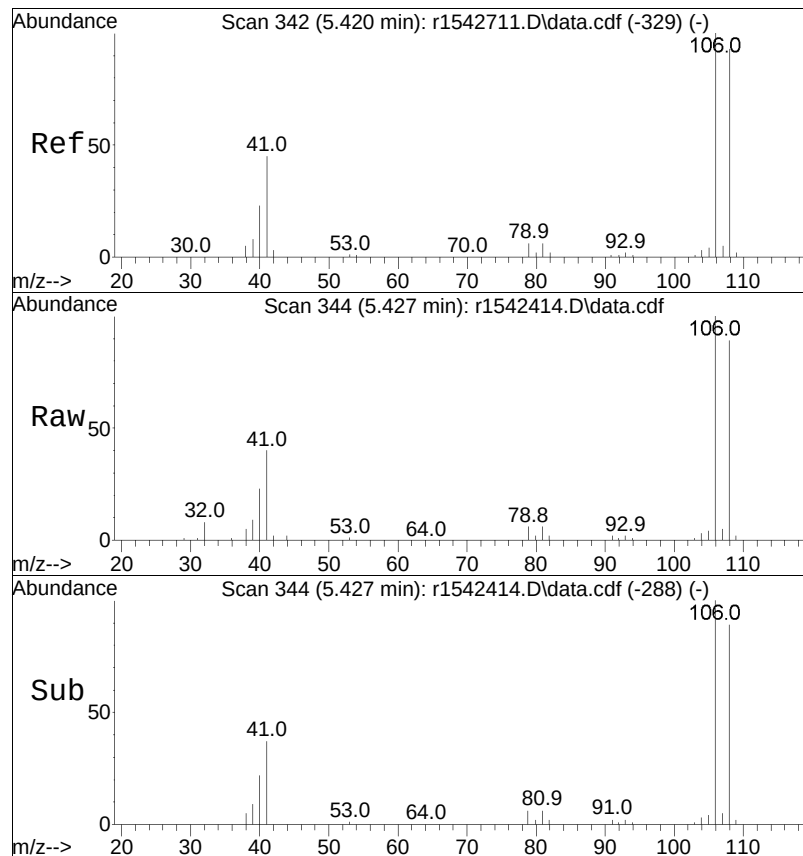




#14
 chloroethane
 Concen: 10.92 ppbV
 RT: 5.044 min Scan# 265
 Delta R.T. 0.042 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

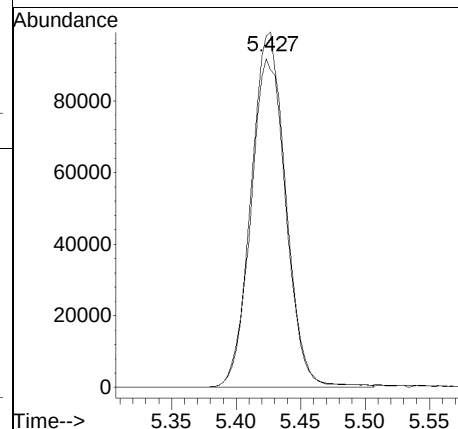
Tgt Ion	Ratio	Lower	Upper
64	100		
66	32.1	24.6	37.0

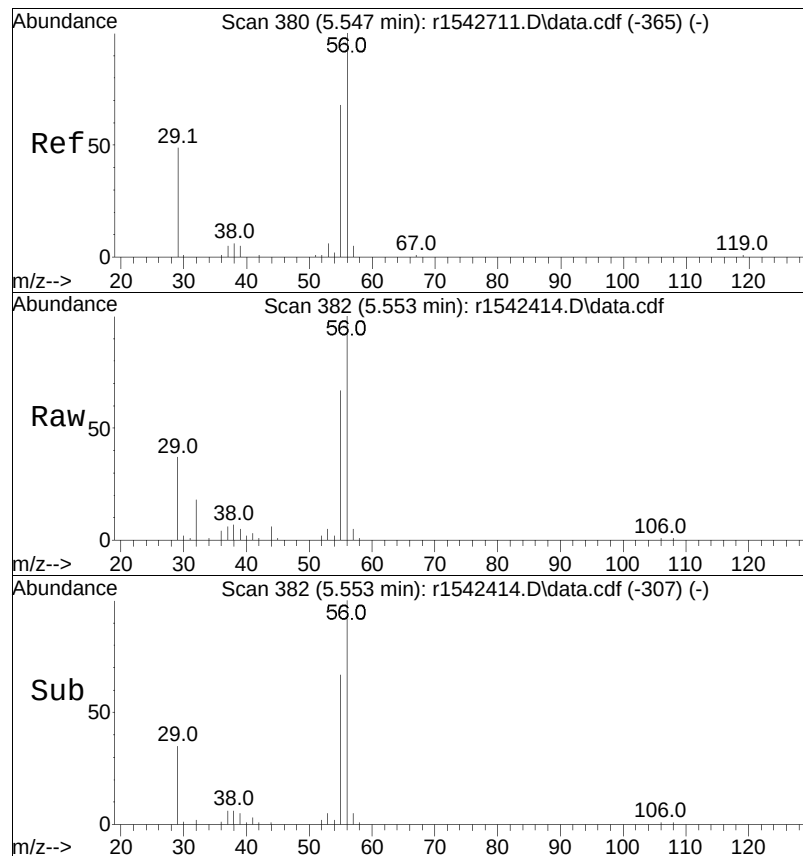




#17
 vinyl bromide
 Concen: 10.85 ppbV
 RT: 5.427 min Scan# 344
 Delta R.T. 0.047 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

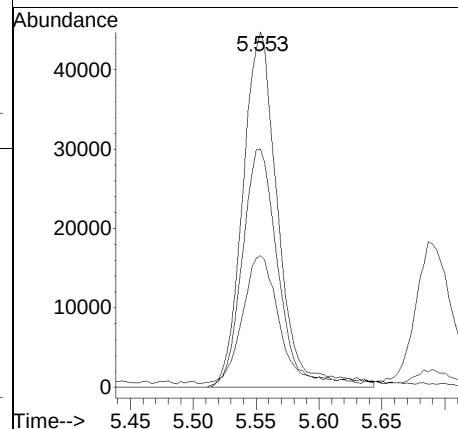
Tgt Ion	Ion	Ratio	Lower	Upper
106	100			
108	89.3	75.0	112.6	

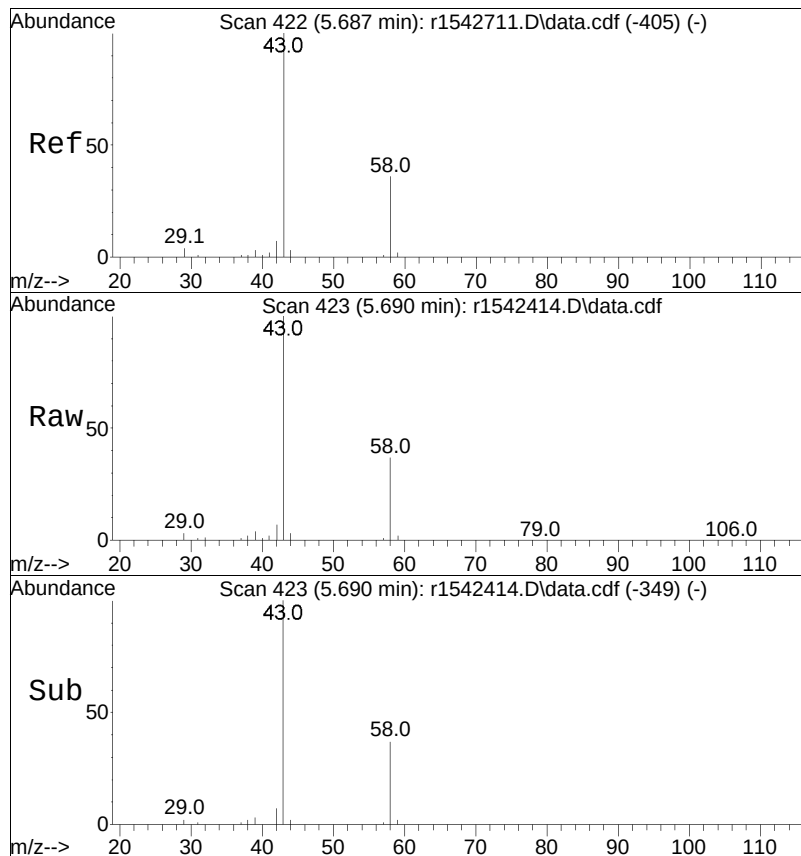




#18
 acrolein
 Concen: 10.07 ppbV
 RT: 5.553 min Scan# 382
 Delta R.T. 0.050 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

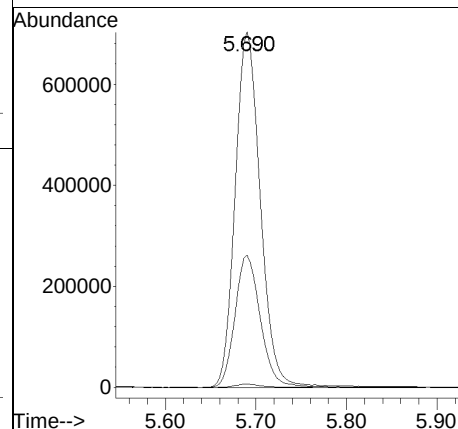
Tgt	Ion: 56	Resp:	87061
Ion	Ratio	Lower	Upper
56	100		
55	67.0	52.3	78.5
29	37.1	28.6	43.0

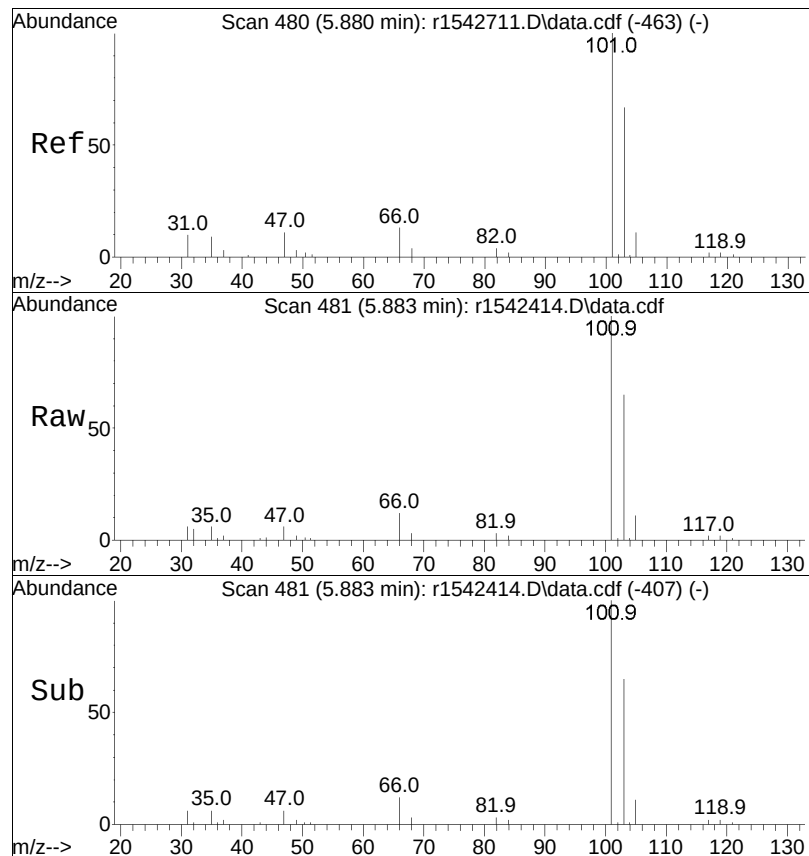




#19
 acetone
 Concen: 64.90 ppbV
 RT: 5.690 min Scan# 423
 Delta R.T. 0.047 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

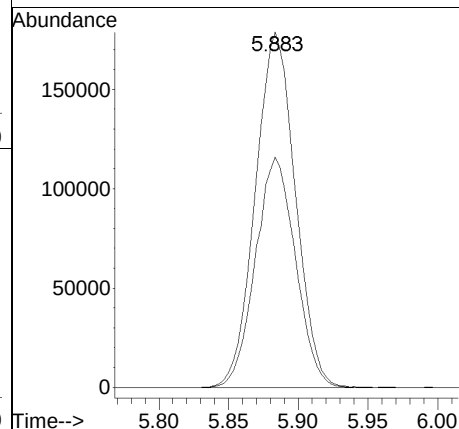
Tgt	Ion: 43	Resp: 1362572		
Ion	Ratio	Lower	Upper	
43	100			
58	37.2	39.0	58.4#	
57	0.9	0.9	1.3	

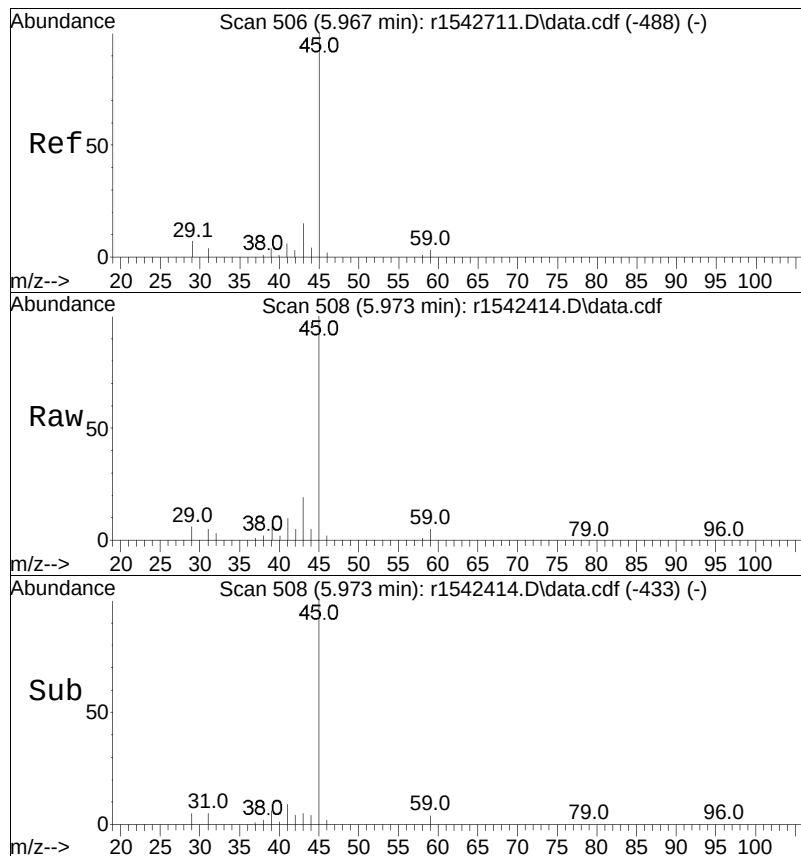




#21
 trichlorofluoromethane
 Concen: 11.27 ppbV
 RT: 5.883 min Scan# 481
 Delta R.T. 0.047 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

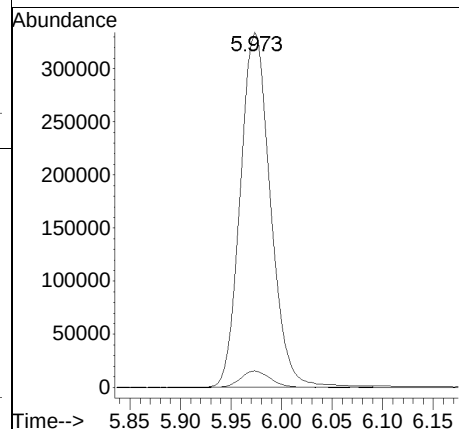
Tgt Ion	Ratio	Lower	Upper
101	100		
103	64.8	49.4	74.0

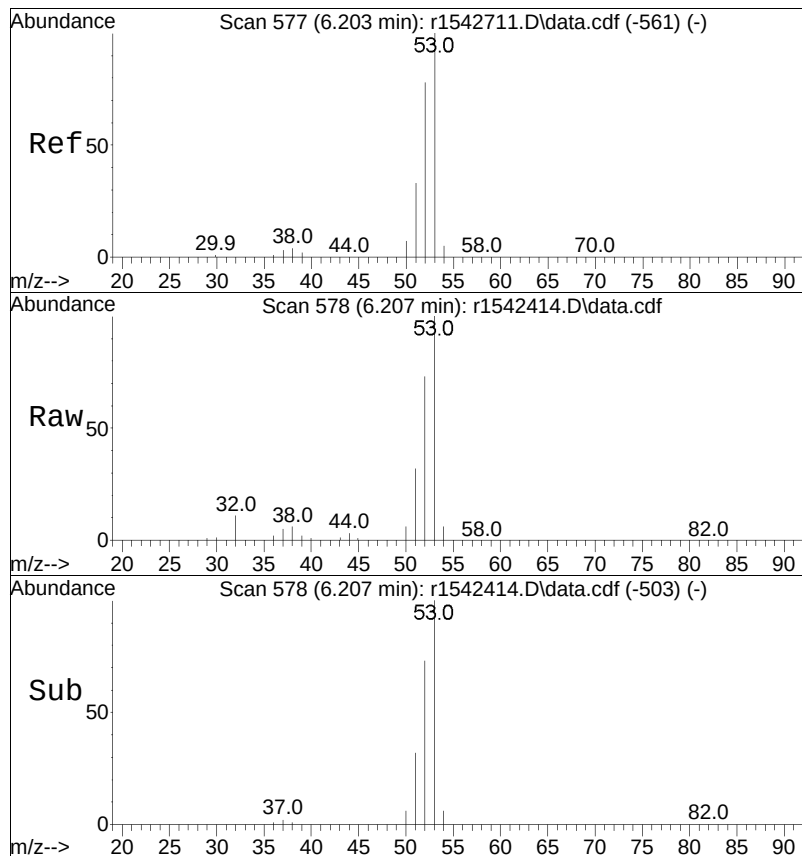




#22
 isopropyl alcohol
 Concen: 26.25 ppbV
 RT: 5.973 min Scan# 508
 Delta R.T. 0.050 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

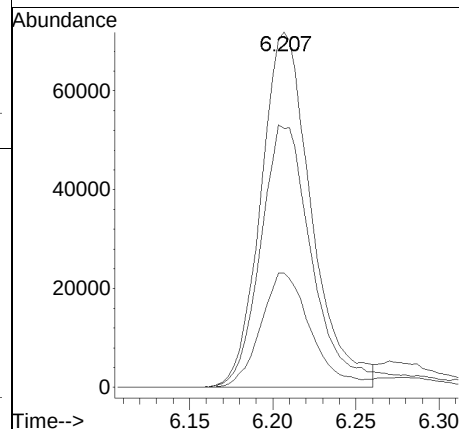
Tgt Ion	Ratio	Lower	Upper
45	100		
59	4.7	4.6	6.8

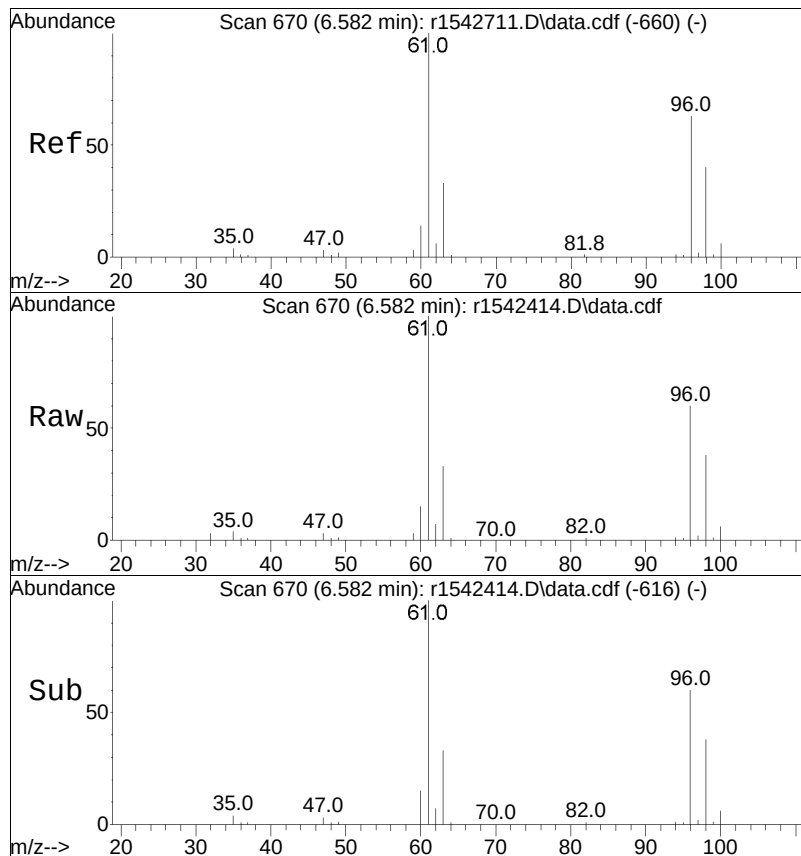




#23
acrylonitrile
Concen: 8.06 ppbV
RT: 6.207 min Scan# 578
Delta R.T. 0.050 min
Lab File: r1542414.D
Acq: 31 Jan 2024 12:18 PM

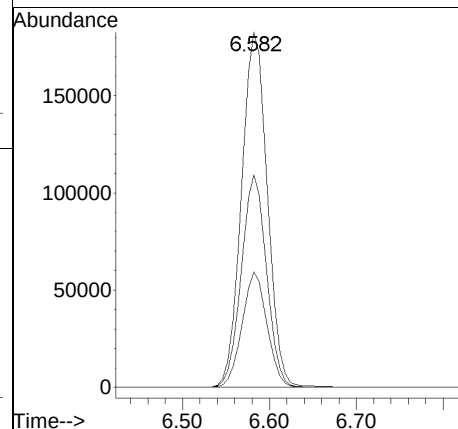
Tgt	Ion: 53	Resp: 151890
Ion	Ratio	Lower Upper
53	100	
52	72.9	59.1 88.7
51	32.3	24.5 36.7

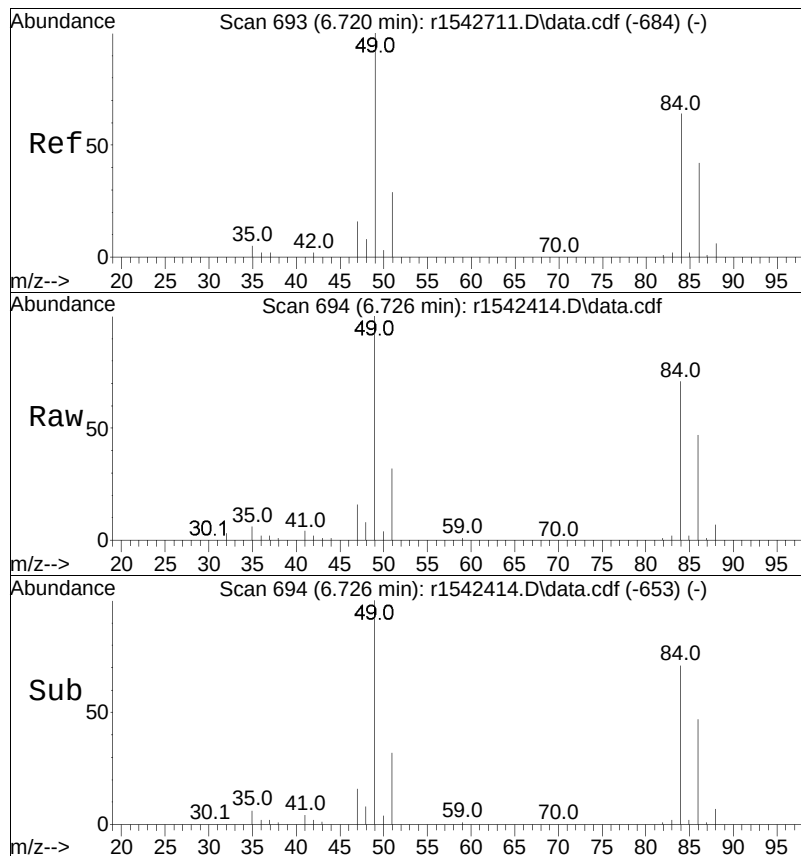




#26
 1,1-dichloroethene
 Concen: 10.36 ppbV
 RT: 6.582 min Scan# 670
 Delta R.T. 0.048 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

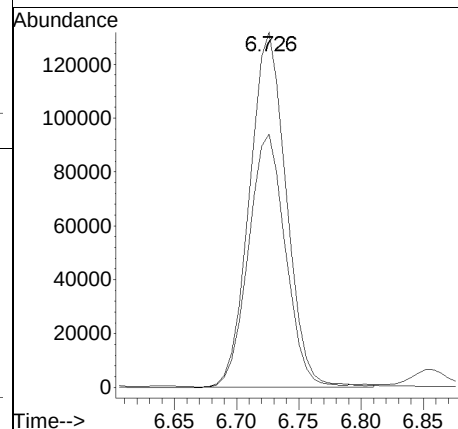
Tgt	Ion	Resp	Lower	Upper
61	100	378156		
96	59.9		50.6	76.0
63	32.5		25.1	37.7

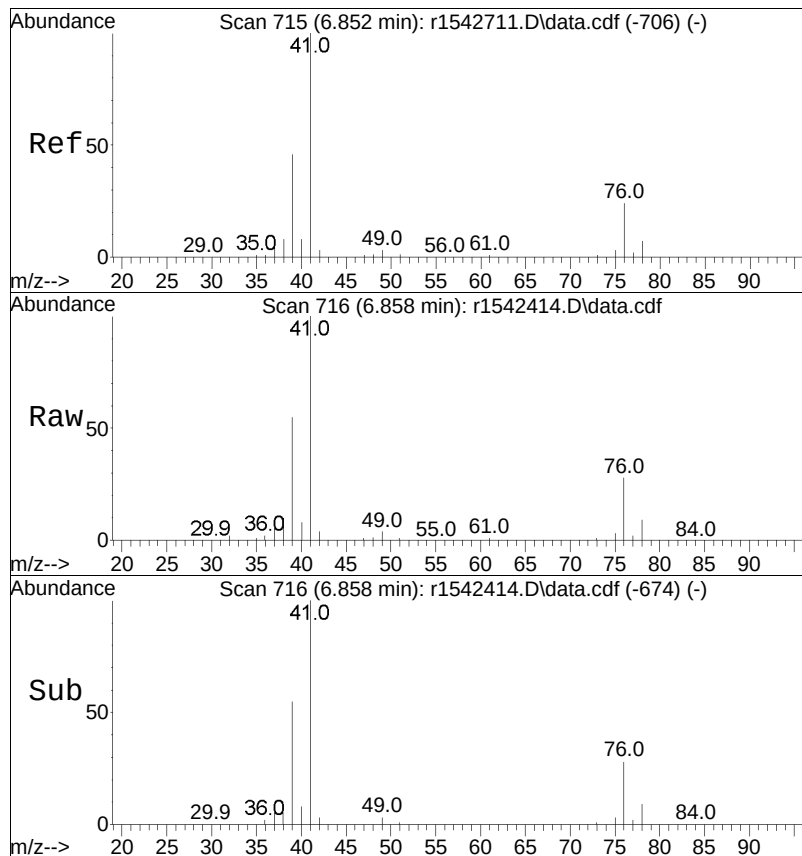




#28
 methylene chloride
 Concen: 9.41 ppbV
 RT: 6.726 min Scan# 694
 Delta R.T. 0.048 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

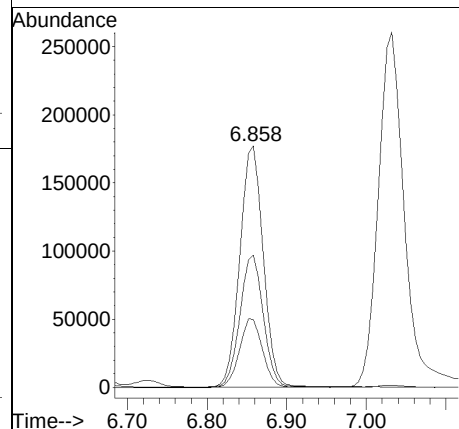
Tgt Ion:	49	84	Ratio	Lower	Upper
Resp:	269859				
Ion Ratio	100	71.3			
			61.2	91.8	

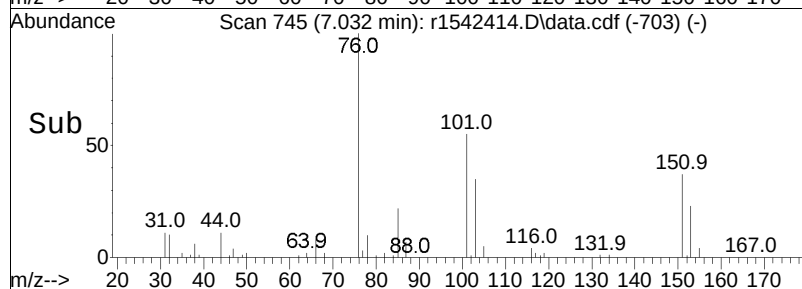
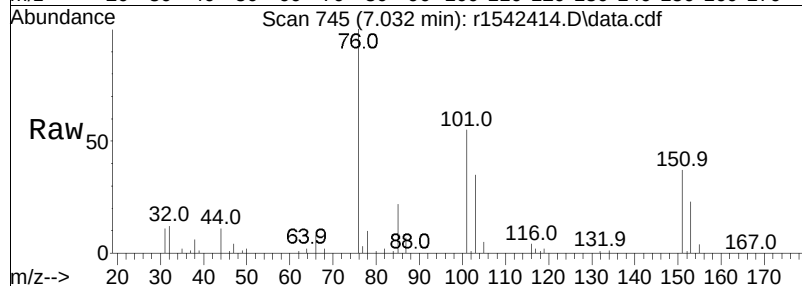
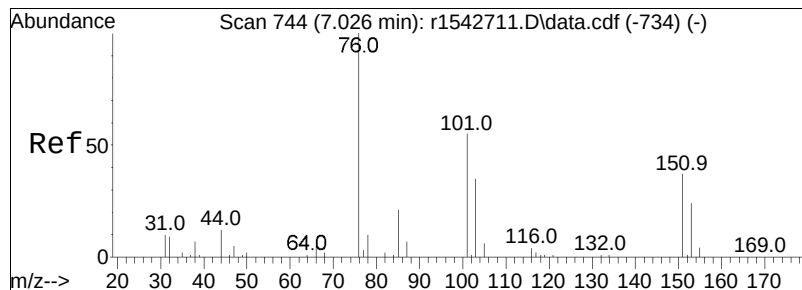




#29
 3-chloropropene
 Concen: 11.16 ppbV
 RT: 6.858 min Scan# 716
 Delta R.T. 0.054 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

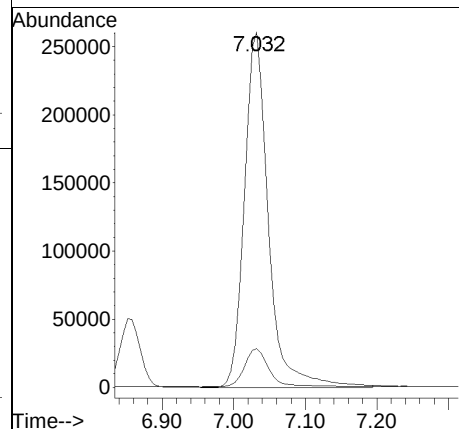
Tgt Ion:	41	Resp:	360732
Ion Ratio	Lower	Upper	
41	100		
39	54.7	40.8	61.2
76	28.1	25.9	38.9

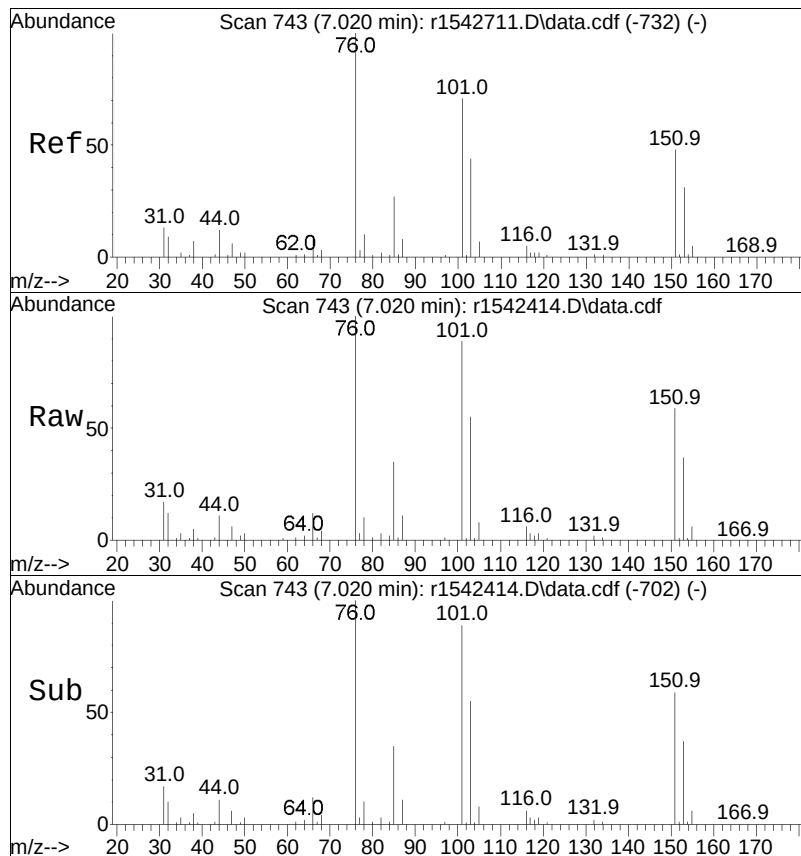




#30
 carbon disulfide
 Concen: 9.03 ppbV
 RT: 7.032 min Scan# 745
 Delta R.T. 0.054 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

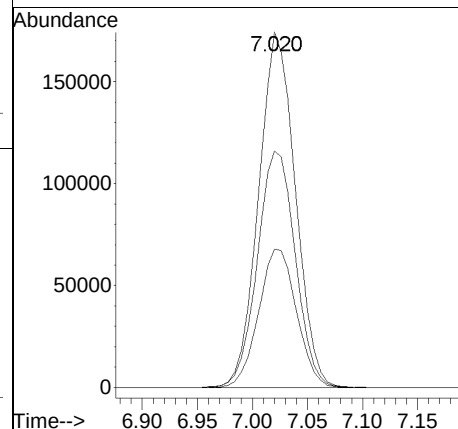
Tgt Ion	Ratio	Lower	Upper
76	100		
44	10.9	7.8	11.6

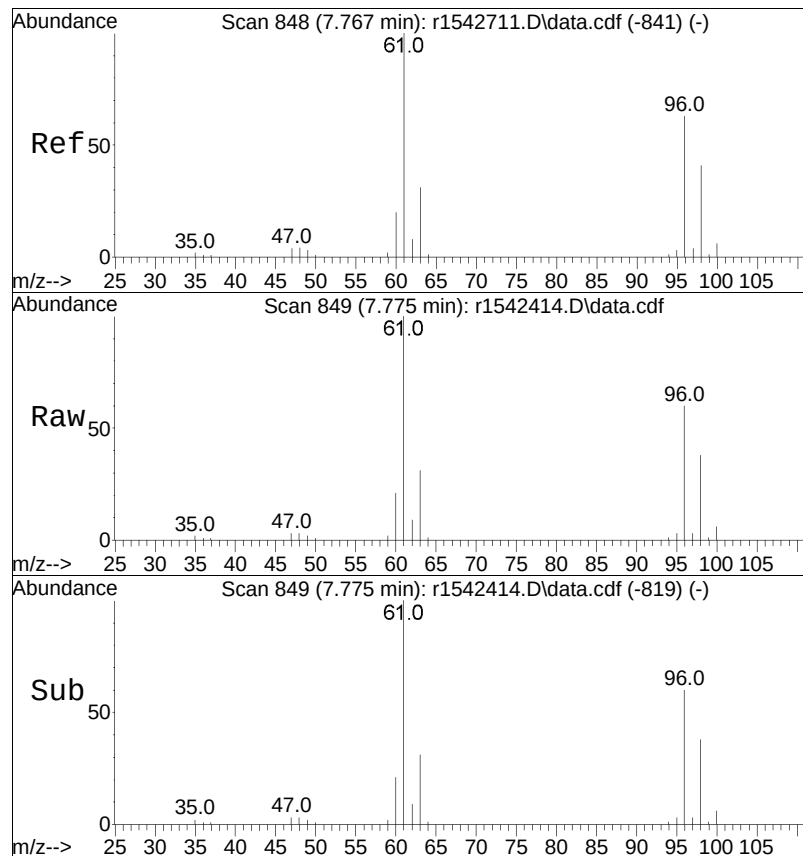




#31
 Freon 113
 Concen: 9.72 ppbV
 RT: 7.020 min Scan# 743
 Delta R.T. 0.048 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

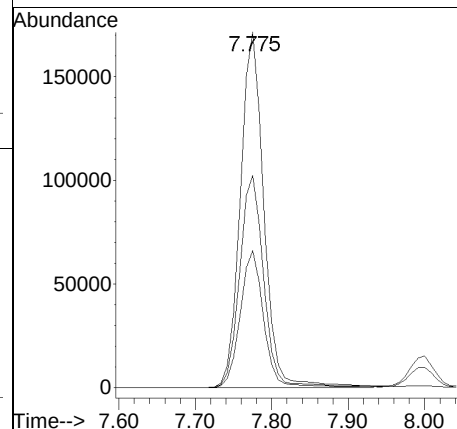
Tgt	Ion	Ratio	Resp	Lower	Upper
101	100		403303		
85	39.0	35.3		52.9	
151	66.6	63.8		95.8	

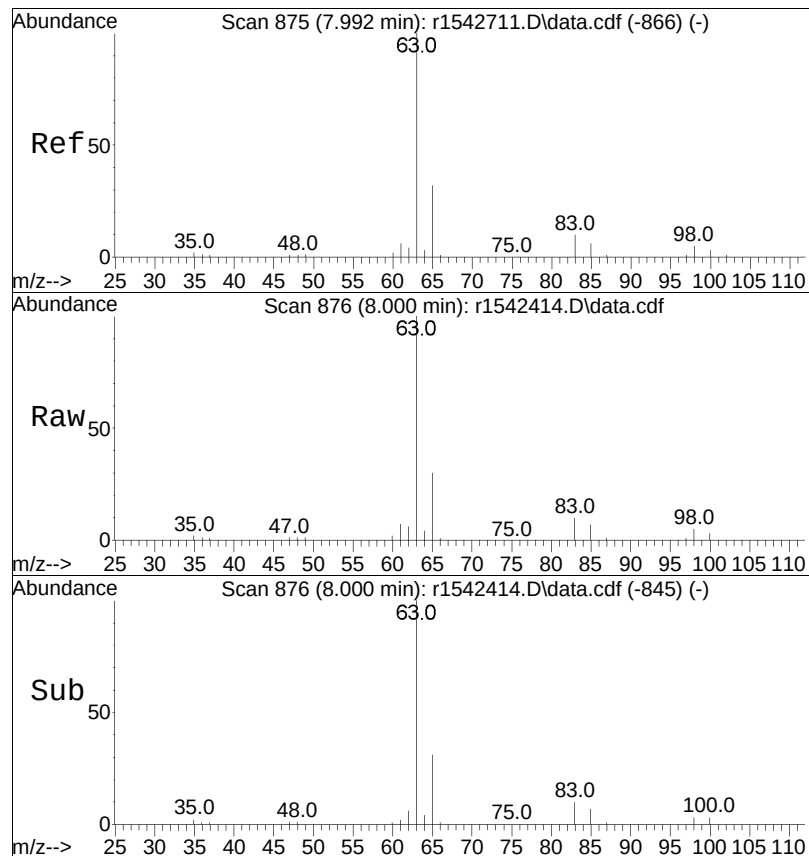




#32
 trans-1,2-dichloroethene
 Concen: 10.07 ppbV
 RT: 7.775 min Scan# 849
 Delta R.T. 0.050 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

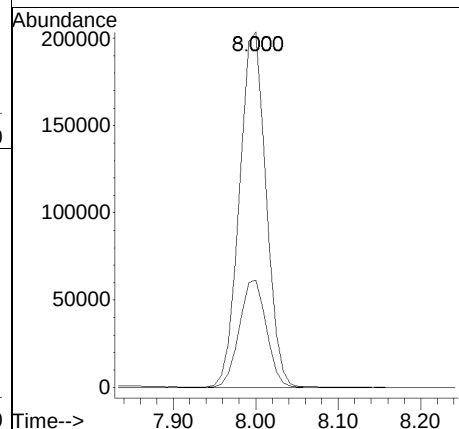
Tgt Ion:	61	Resp:	367883
Ion Ratio	Lower	Upper	
61	100		
96	59.7	52.2	78.4
98	38.5	33.0	49.4

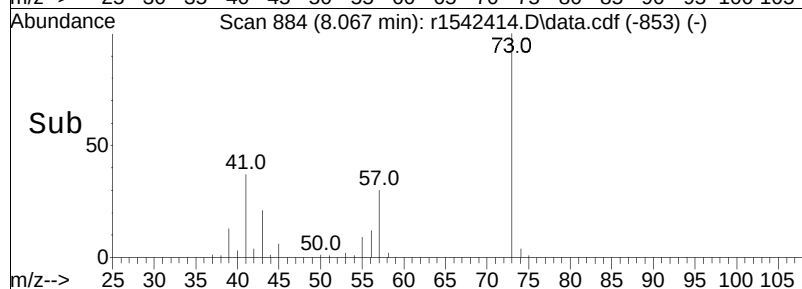
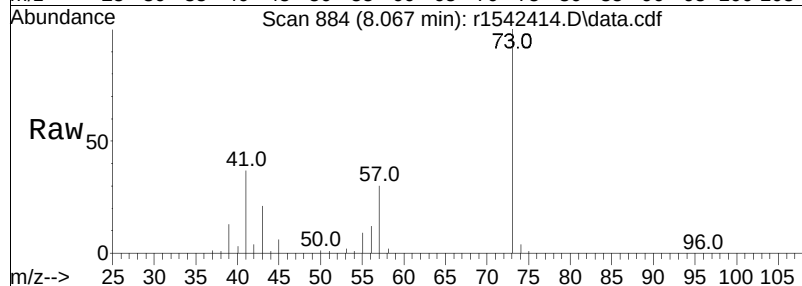
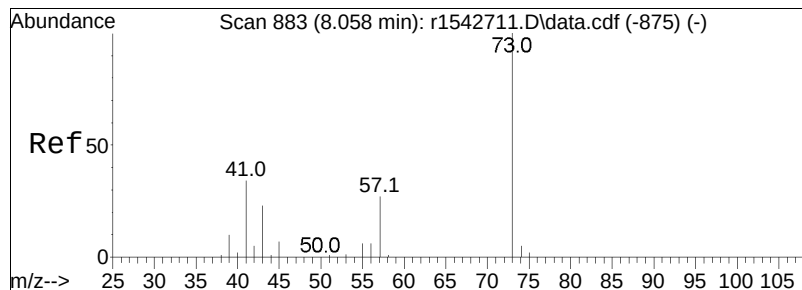




#33
 1,1-dichloroethane
 Concen: 9.95 ppbV
 RT: 8.000 min Scan# 876
 Delta R.T. 0.058 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

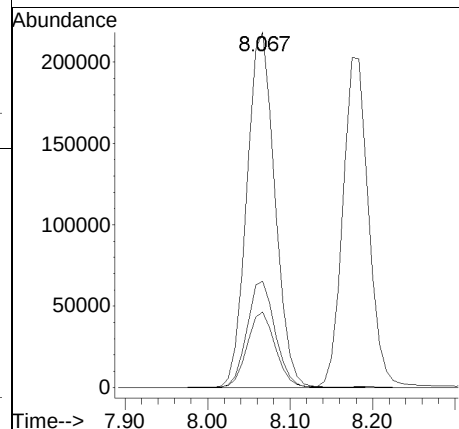
Tgt Ion	Ratio	Lower	Upper
63	100		
65	30.2	25.2	37.8

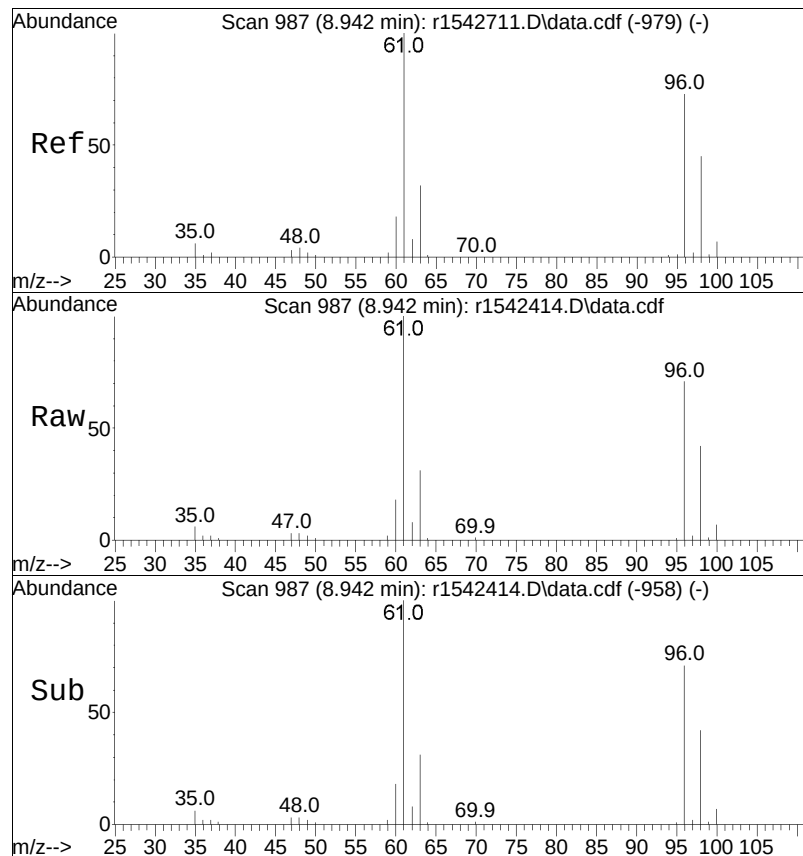




#34
MTBE
Concen: 9.27 ppbV
RT: 8.067 min Scan# 884
Delta R.T. 0.058 min
Lab File: r1542414.D
Acq: 31 Jan 2024 12:18 PM

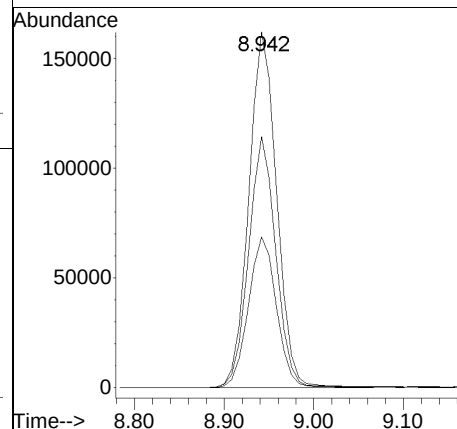
Tgt Ion	Ratio	Lower	Upper
73	100		
57	29.9	23.0	34.4
43	21.2	15.4	23.2

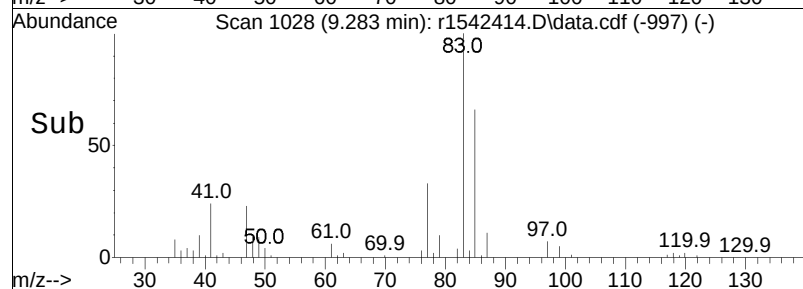
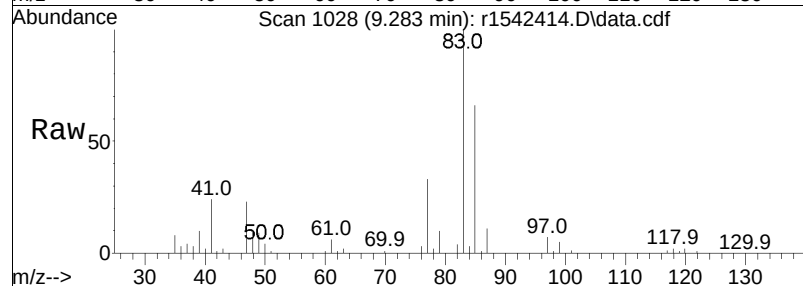
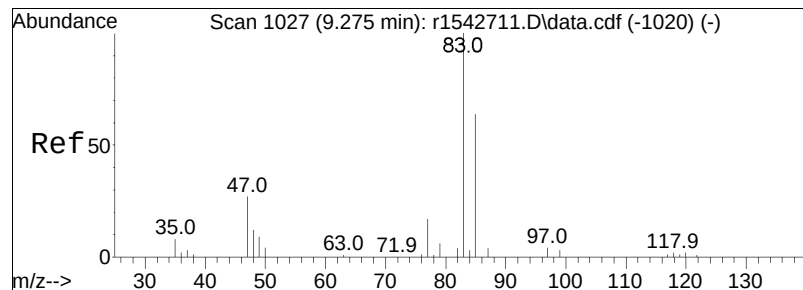




#37
 cis-1,2-dichloroethene
 Concen: 10.02 ppbV
 RT: 8.942 min Scan# 987
 Delta R.T. 0.050 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

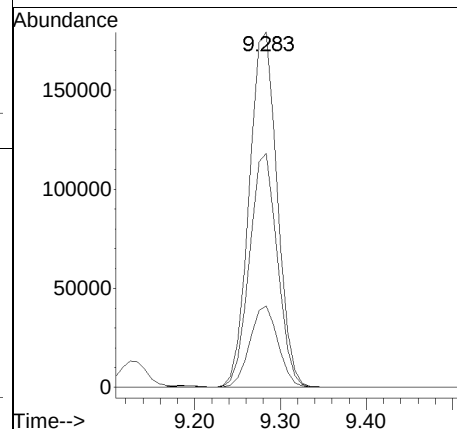
Tgt Ion:	61	Resp:	349419
Ion Ratio	Lower	Upper	
61	100		
96	70.6	57.8	86.6
98	42.3	37.6	56.4

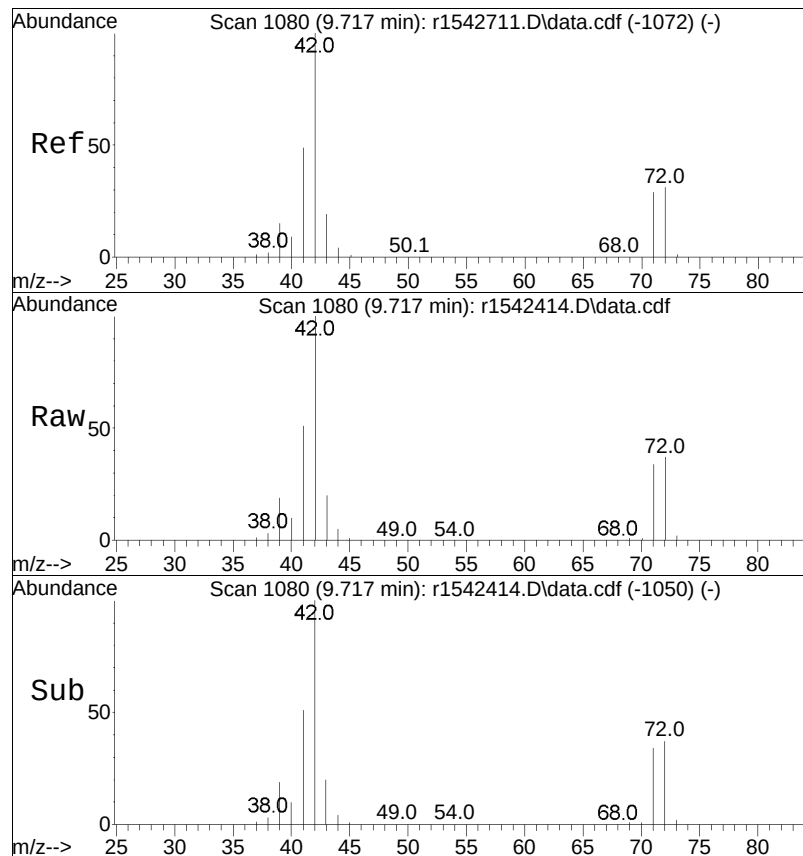




#39
chloroform
Concen: 8.90 ppbV
RT: 9.283 min Scan# 1028
Delta R.T. 0.058 min
Lab File: r1542414.D
Acq: 31 Jan 2024 12:18 PM

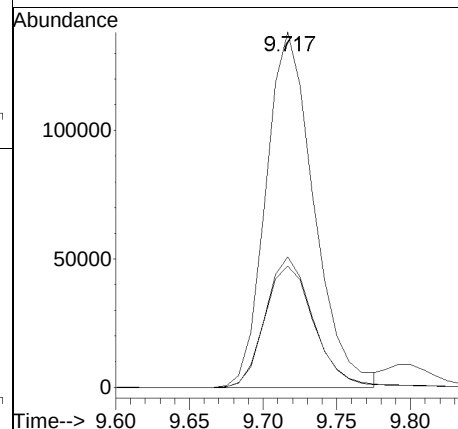
Tgt	Ion	Ratio	Lower	Upper
83	100			
85	65.9	51.5	77.3	
47	23.0	15.9	23.9	

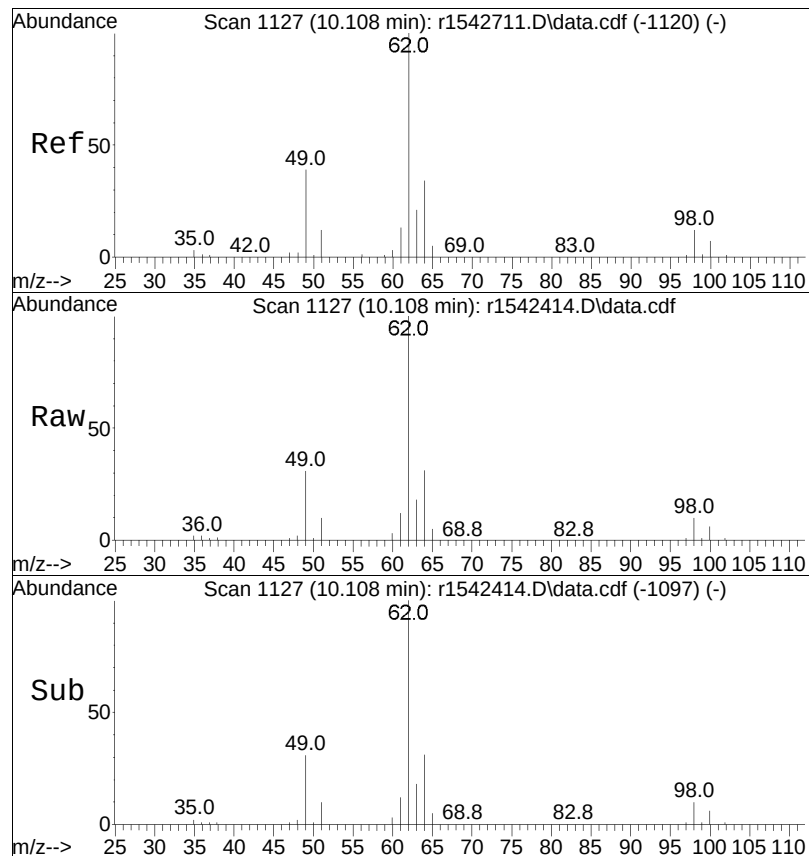




#40
Tetrahydrofuran
Concen: 10.14 ppbV
RT: 9.717 min Scan# 1080
Delta R.T. 0.050 min
Lab File: r1542414.D
Acq: 31 Jan 2024 12:18 PM

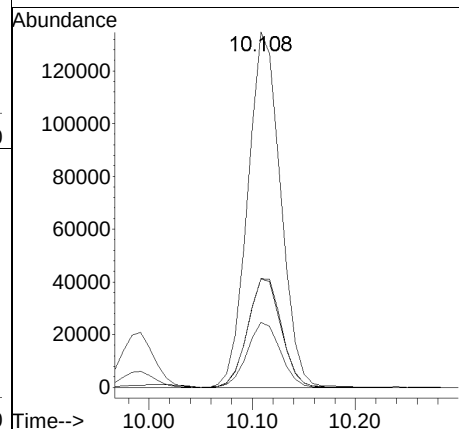
Tgt	Ion	Ratio	Lower	Upper
42	100			
71	34.2	30.6	46.0	
72	36.7	32.5	48.7	

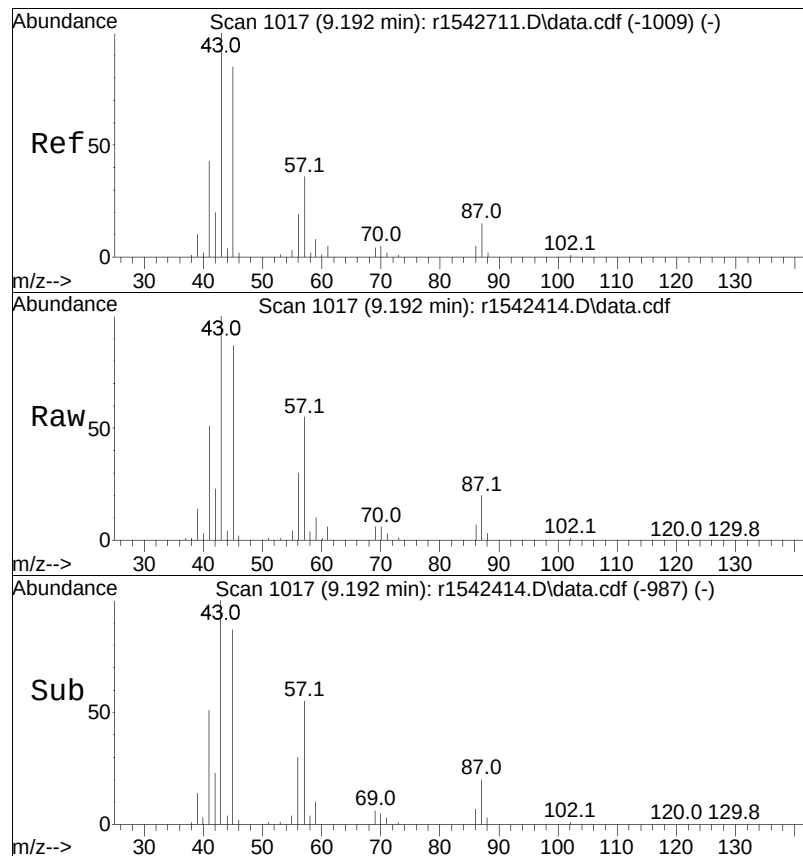




#42
 1,2-dichloroethane
 Concen: 10.80 ppbV
 RT: 10.108 min Scan# 1127
 Delta R.T. 0.050 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

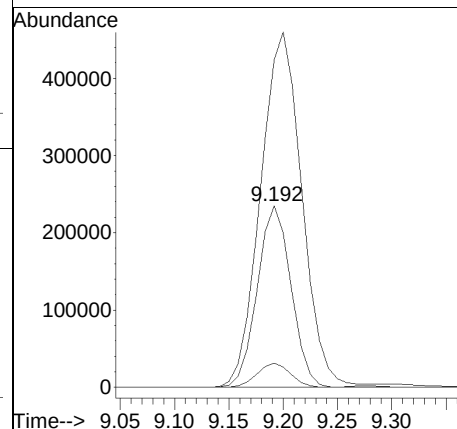
Tgt	Ion: 62	Resp:	298281
Ion	Ratio	Lower	Upper
62	100		
64	30.6	24.3	36.5
49	30.5	29.3	43.9
63	18.3	15.2	22.8

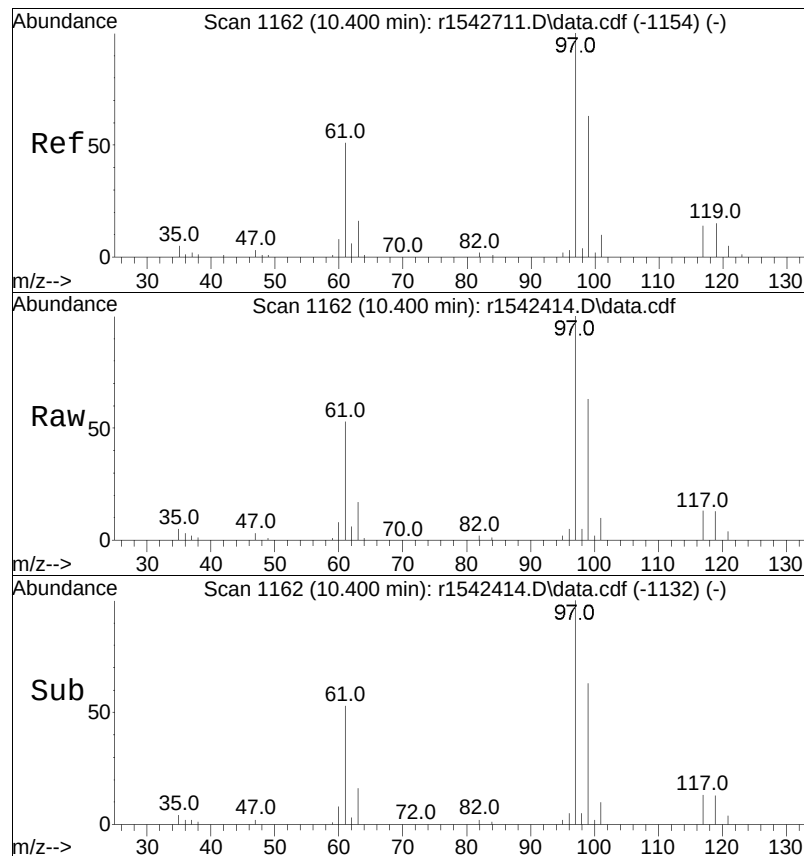




#44
hexane
Concen: 11.80 ppbV
RT: 9.192 min Scan# 1017
Delta R.T. 0.050 min
Lab File: r1542414.D
Acq: 31 Jan 2024 12:18 PM

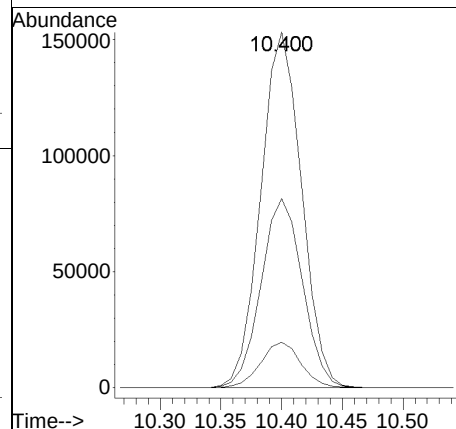
Tgt Ion	Ratio	Lower	Upper
57	100		
43	180.5	146.8	220.2
86	13.5	12.7	19.1

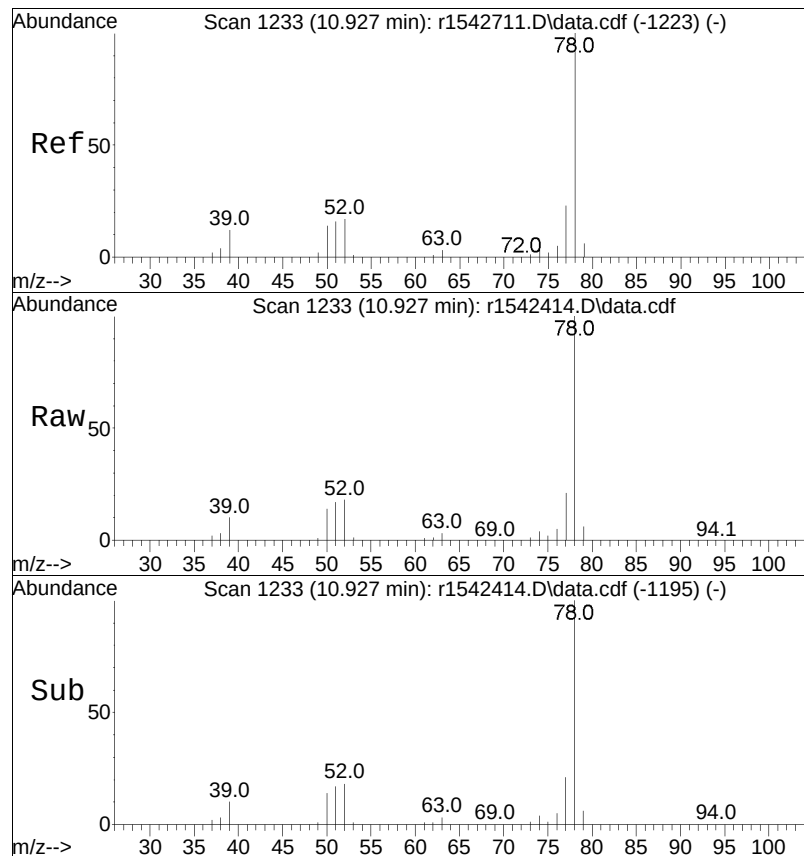




#48
 1,1,1-trichloroethane
 Concen: 11.22 ppbV
 RT: 10.400 min Scan# 1162
 Delta R.T. 0.050 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

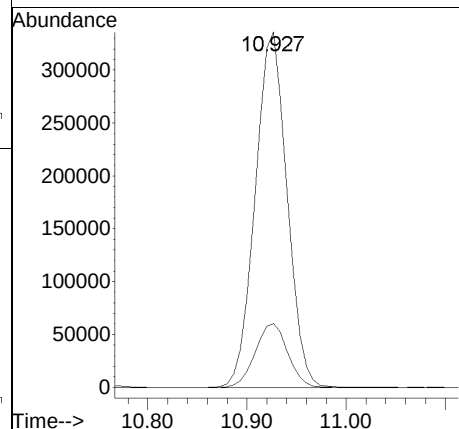
Tgt Ion:	97	Resp:	357167
Ion Ratio	Lower	Upper	
97	100		
61	53.1	40.7	61.1
119	12.7	11.8	17.8

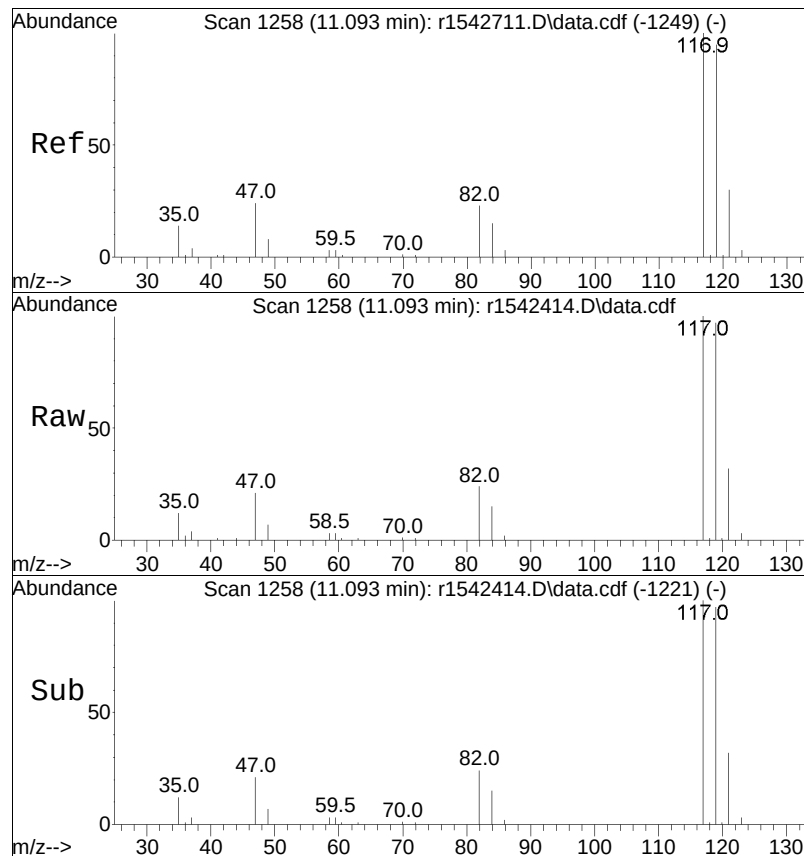




#50
benzene
Concen: 9.39 ppbV
RT: 10.927 min Scan# 1233
Delta R.T. 0.053 min
Lab File: r1542414.D
Acq: 31 Jan 2024 12:18 PM

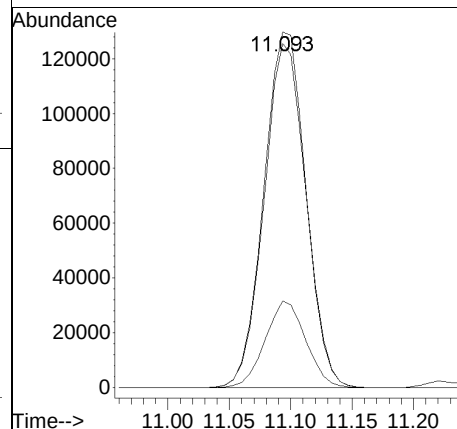
Tgt	Ion	Ratio	Lower	Upper
78	100			
52	18.0	14.1	21.1	

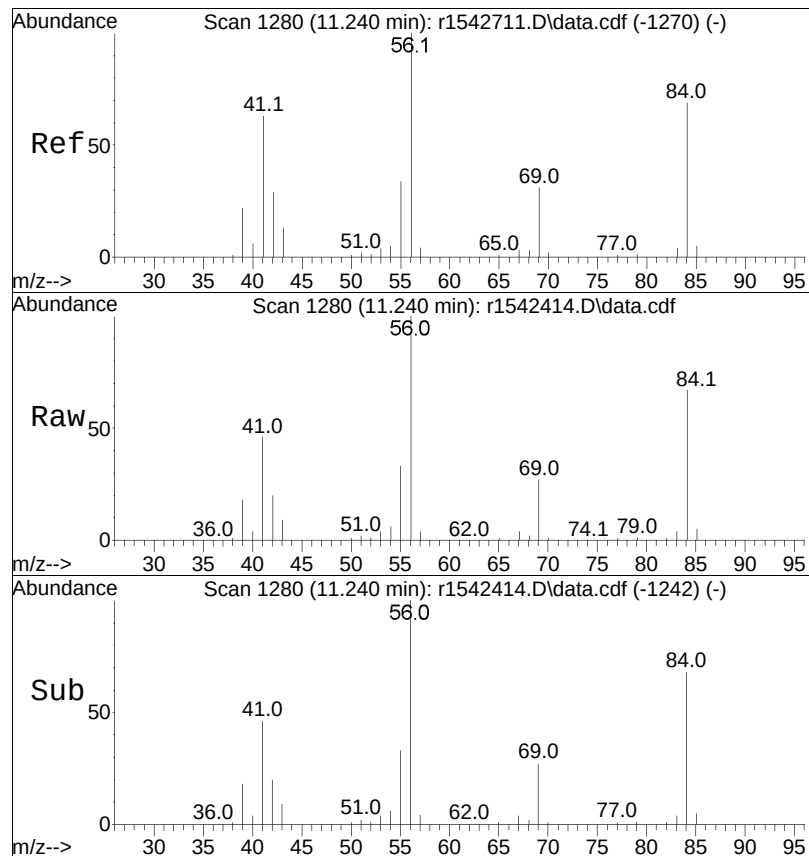




#52
 carbon tetrachloride
 Concen: 10.43 ppbV
 RT: 11.093 min Scan# 1258
 Delta R.T. 0.047 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

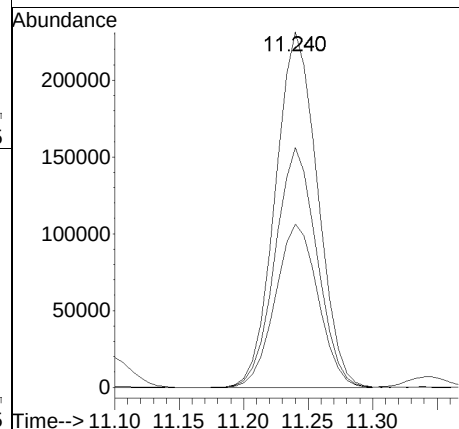
Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.8	77.1	115.7
82	24.4	17.2	25.8

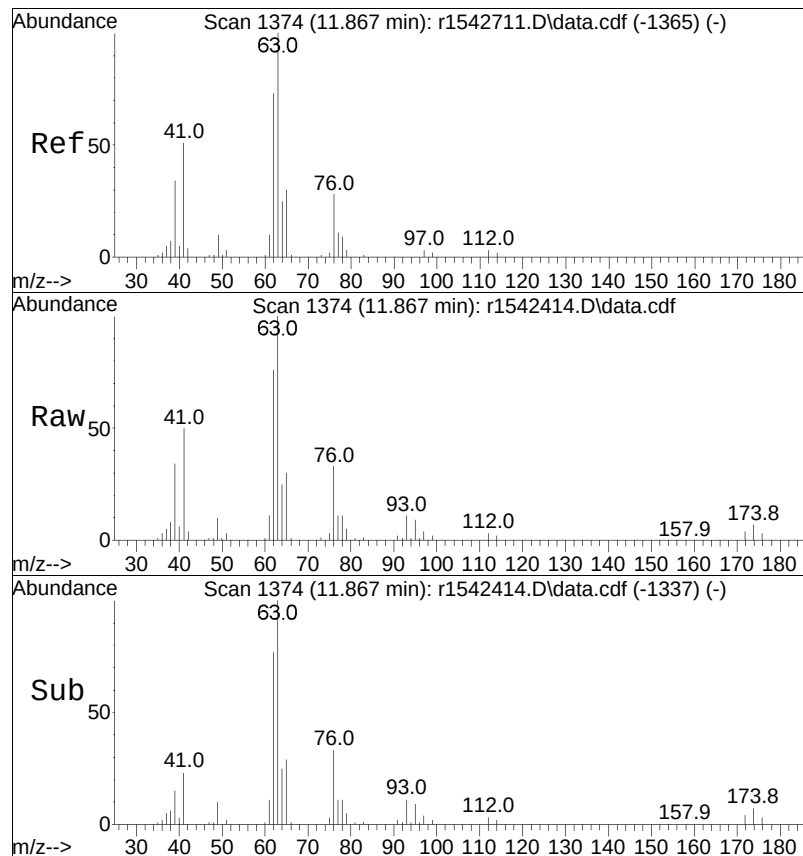




#53
cyclohexane
Concen: 11.22 ppbV
RT: 11.240 min Scan# 1280
Delta R.T. 0.053 min
Lab File: r1542414.D
Acq: 31 Jan 2024 12:18 PM

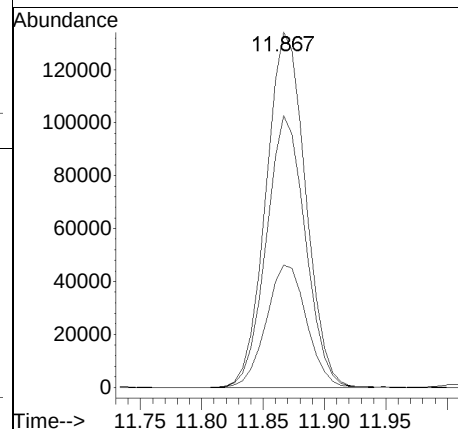
Tgt	Ion	Ratio	Lower	Upper
56	100			
84	67.5	60.2	90.2	
41	46.0	33.5	50.3	

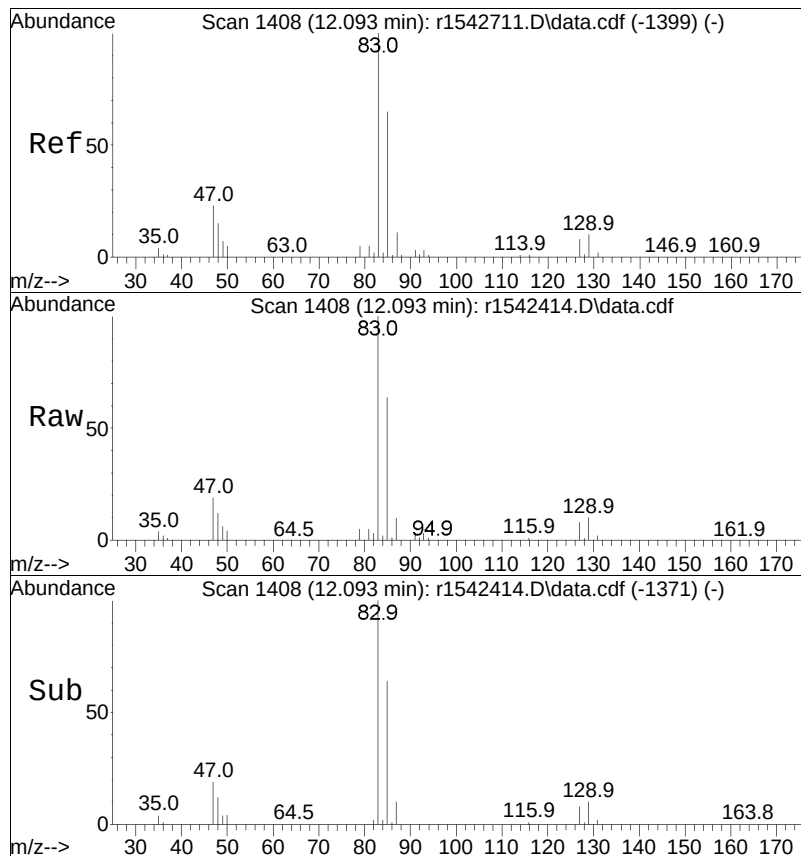




#56
 1,2-dichloropropane
 Concen: 10.39 ppbV
 RT: 11.867 min Scan# 1374
 Delta R.T. 0.047 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

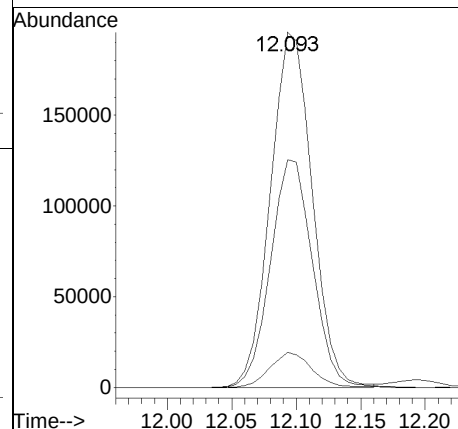
Tgt	Ion	Ratio	Lower	Upper
63	100			
62	76.5	60.1	90.1	
39	34.4	23.5	35.3	

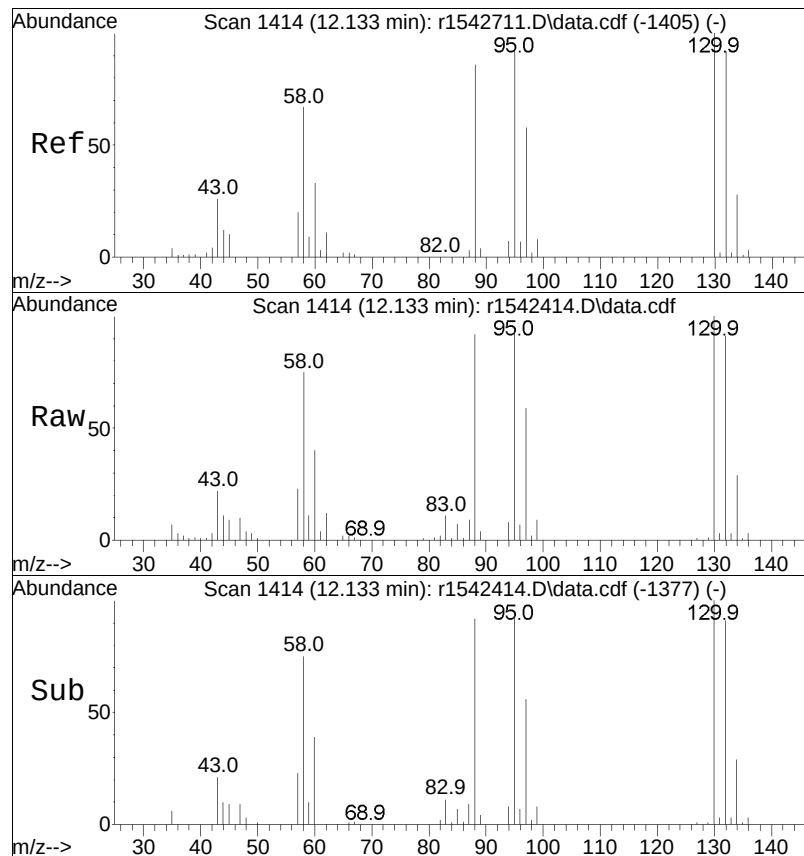




#57
 bromodichloromethane
 Concen: 11.11 ppbV
 RT: 12.093 min Scan# 1408
 Delta R.T. 0.047 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

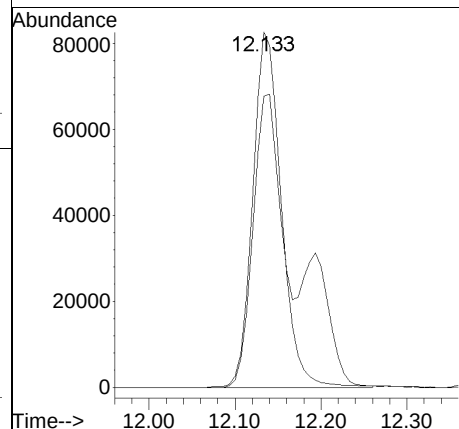
Tgt	Ion	Ratio	Lower	Upper
83	100			
85	64.1	50.7	76.1	
129	9.9	7.5	11.3	

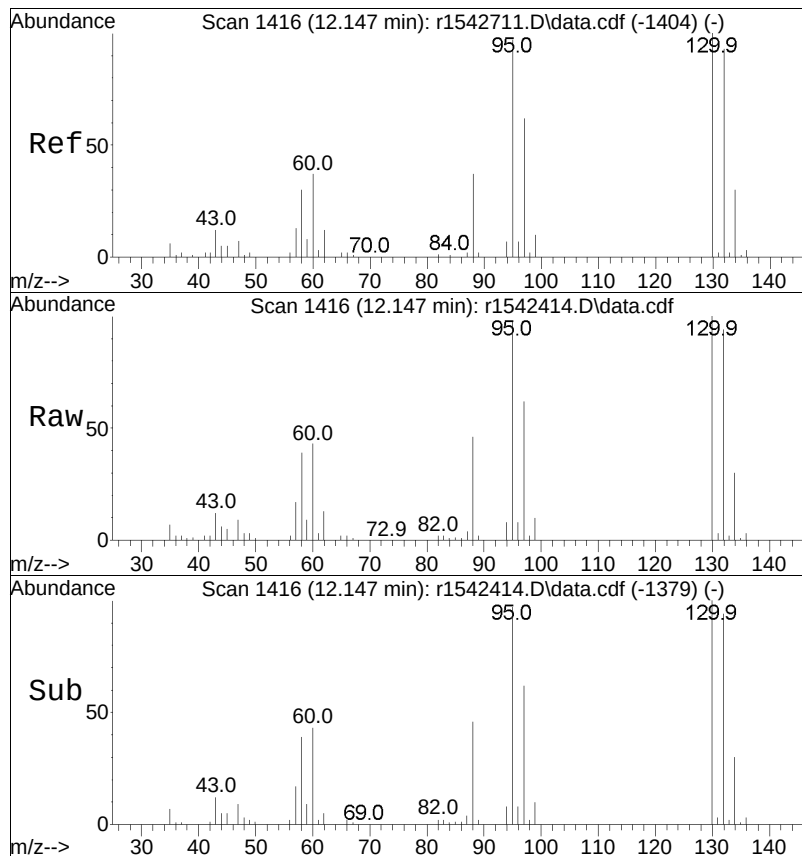




#58
 1,4-dioxane
 Concen: 10.37 ppbV
 RT: 12.133 min Scan# 1414
 Delta R.T. 0.047 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

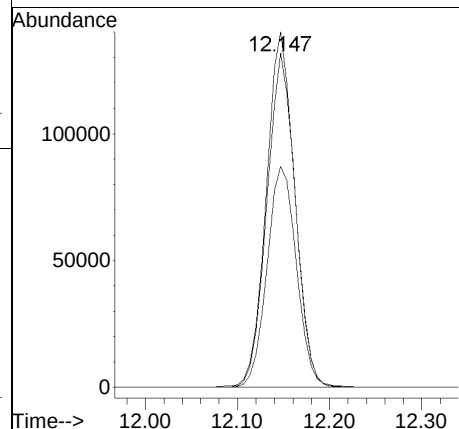
Tgt	Ion	Ratio	Lower	Upper
88	100			
58	82.0	58.8	88.2	

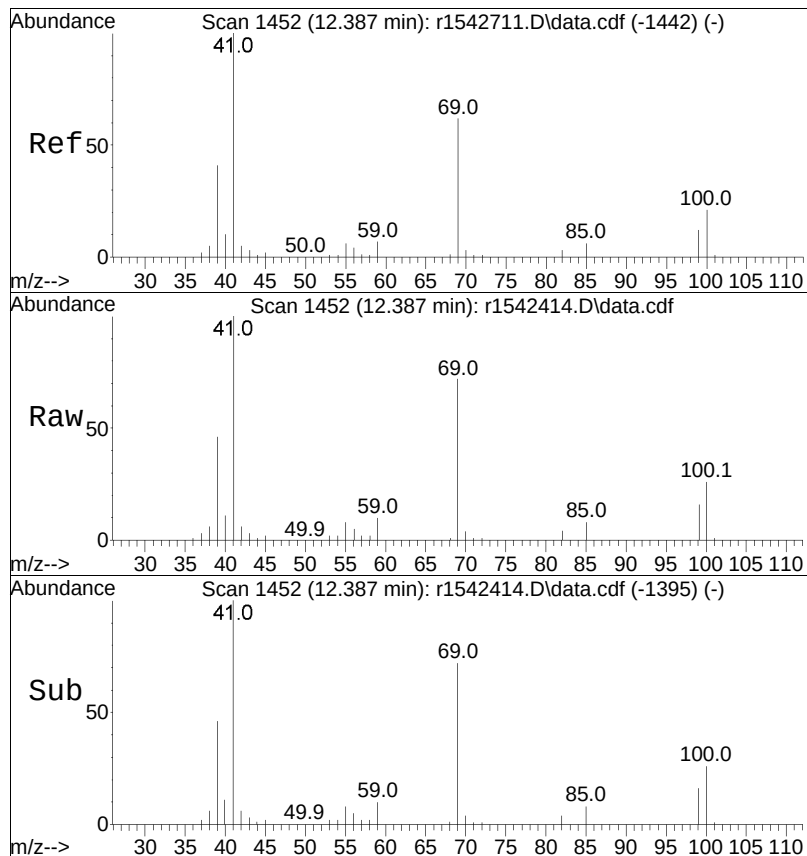




#59
trichloroethene
Concen: 9.59 ppbV
RT: 12.147 min Scan# 1416
Delta R.T. 0.047 min
Lab File: r1542414.D
Acq: 31 Jan 2024 12:18 PM

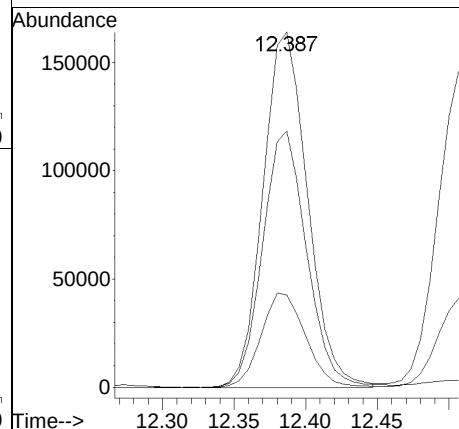
Tgt	Ion	Ratio	Resp	Lower	Upper
130	100		301735		
132	94.1	74.7	112.1		
97	62.2	46.6	70.0		

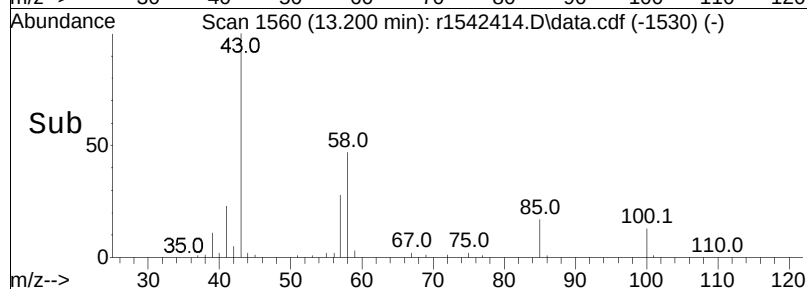
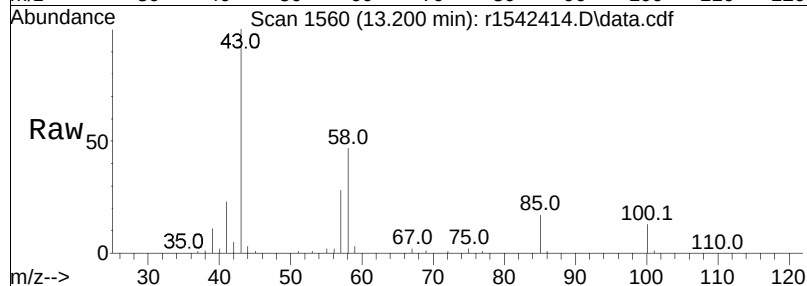
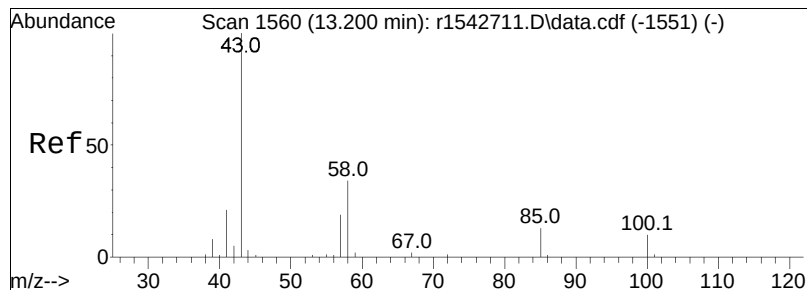




#61
methyl methacrylate
Concen: 13.01 ppbV
RT: 12.387 min Scan# 1452
Delta R.T. 0.053 min
Lab File: r1542414.D
Acq: 31 Jan 2024 12:18 PM

Tgt	Ion: 41	Resp:	355371
Ion	Ratio	Lower	Upper
41	100		
69	71.5	61.8	92.6
100	26.6	24.6	36.8





#64

4-methyl-2-pentanone

Concen: 11.83 ppbV

RT: 13.200 min Scan# 1560

Delta R.T. 0.050 min

Lab File: r1542414.D

Acq: 31 Jan 2024 12:18 PM

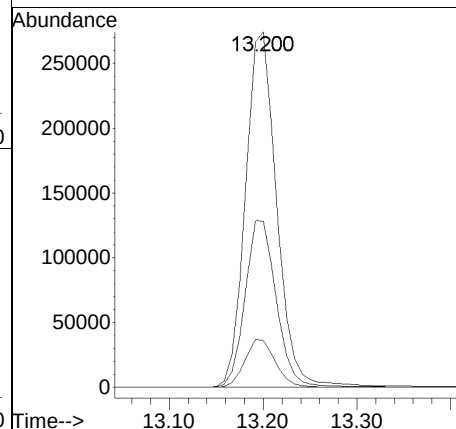
Tgt Ion: 43 Resp: 635273

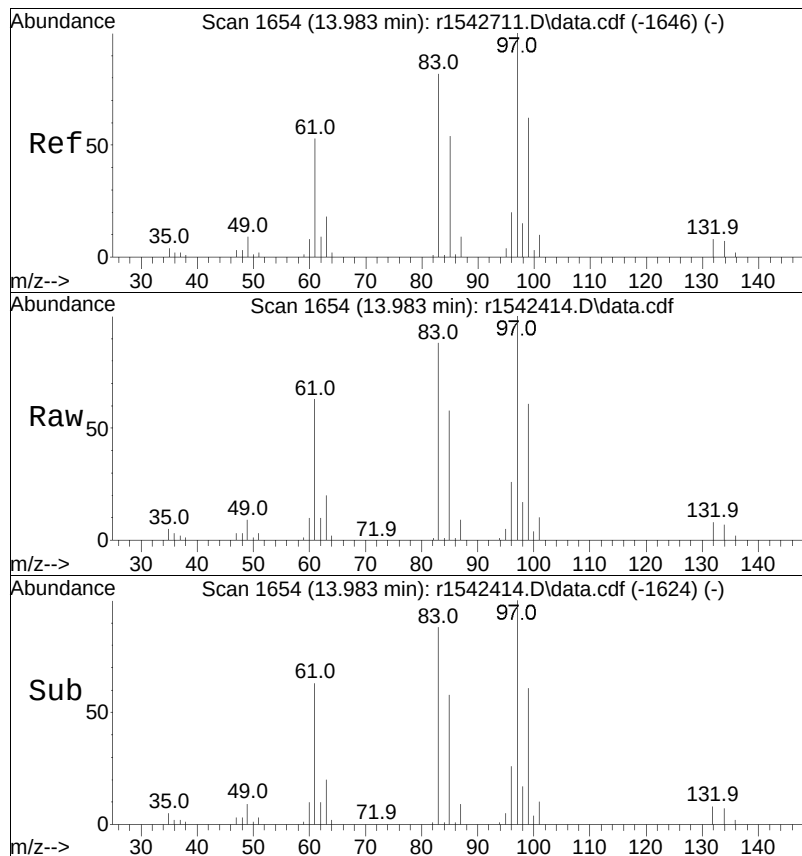
Ion Ratio Lower Upper

43 100

58 46.8 39.5 59.3

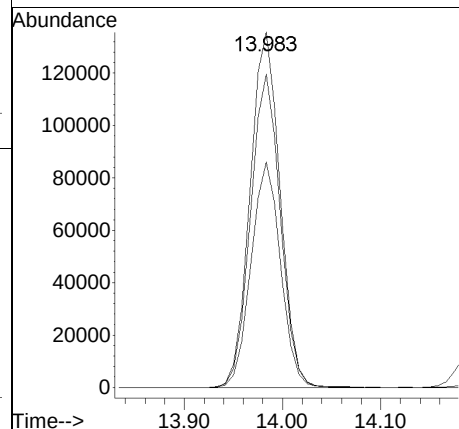
100 13.2 11.8 17.6

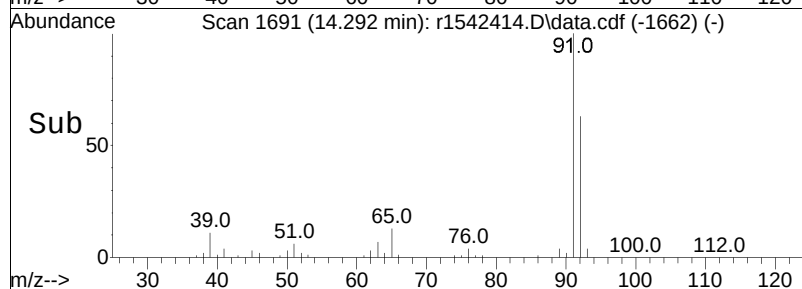
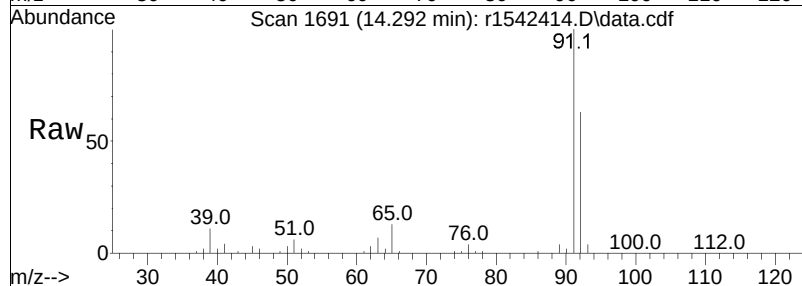
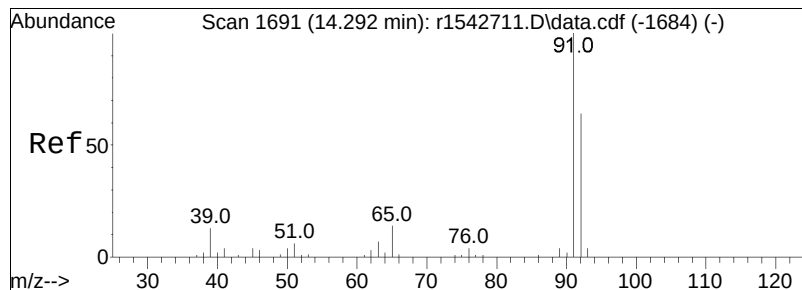




#66
 1,1,2-trichloroethane
 Concen: 10.02 ppbV
 RT: 13.983 min Scan# 1654
 Delta R.T. 0.050 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

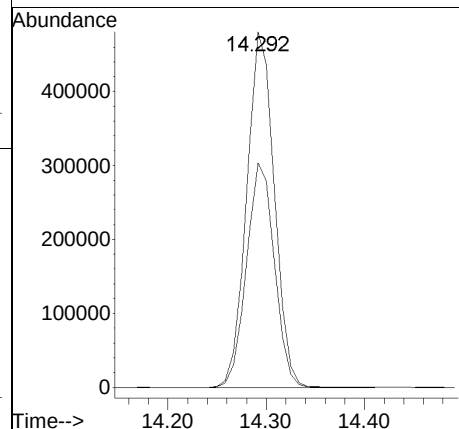
Tgt Ion	Ion	Ratio	Lower	Upper
97	100			
83	88.1	77.4	116.2	
61	63.4	43.7	65.5	

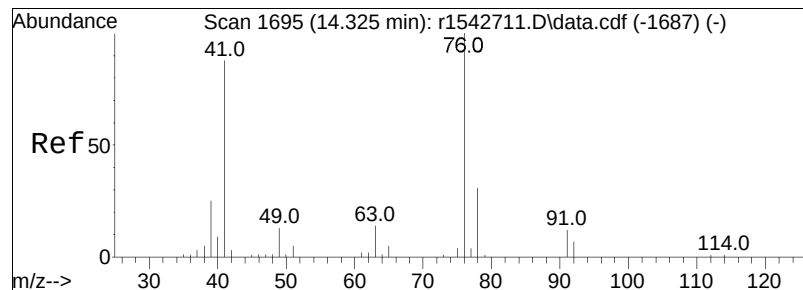




#68
toluene
Concen: 8.97 ppbV
RT: 14.292 min Scan# 1691
Delta R.T. 0.042 min
Lab File: r1542414.D
Acq: 31 Jan 2024 12:18 PM

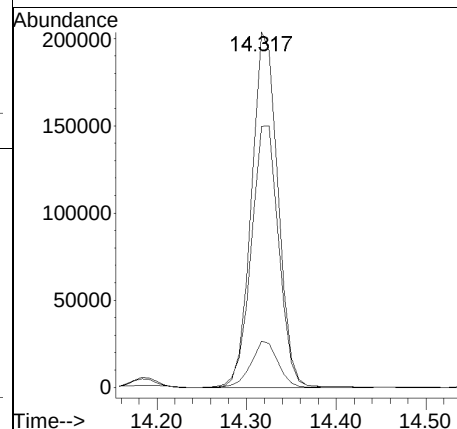
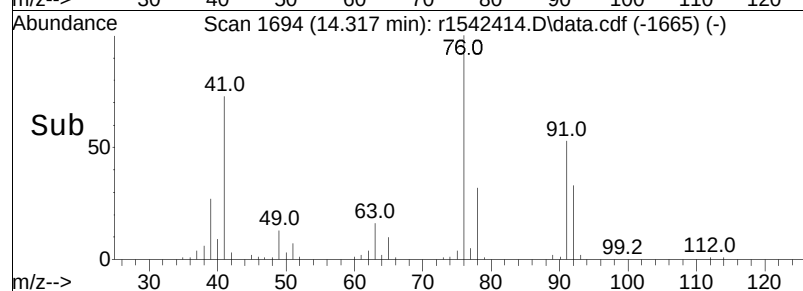
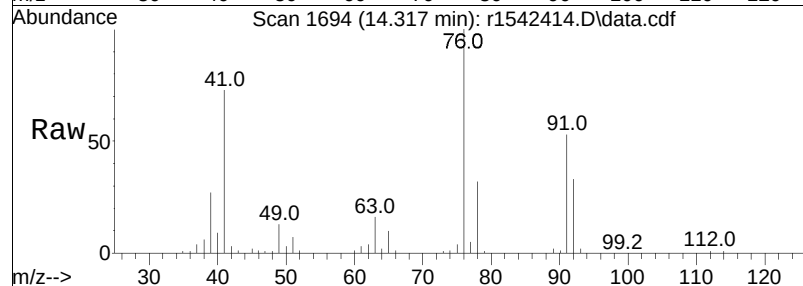
Tgt	Ion	Resp	Lower	Upper
91	100			
92	63.2		51.0	76.4

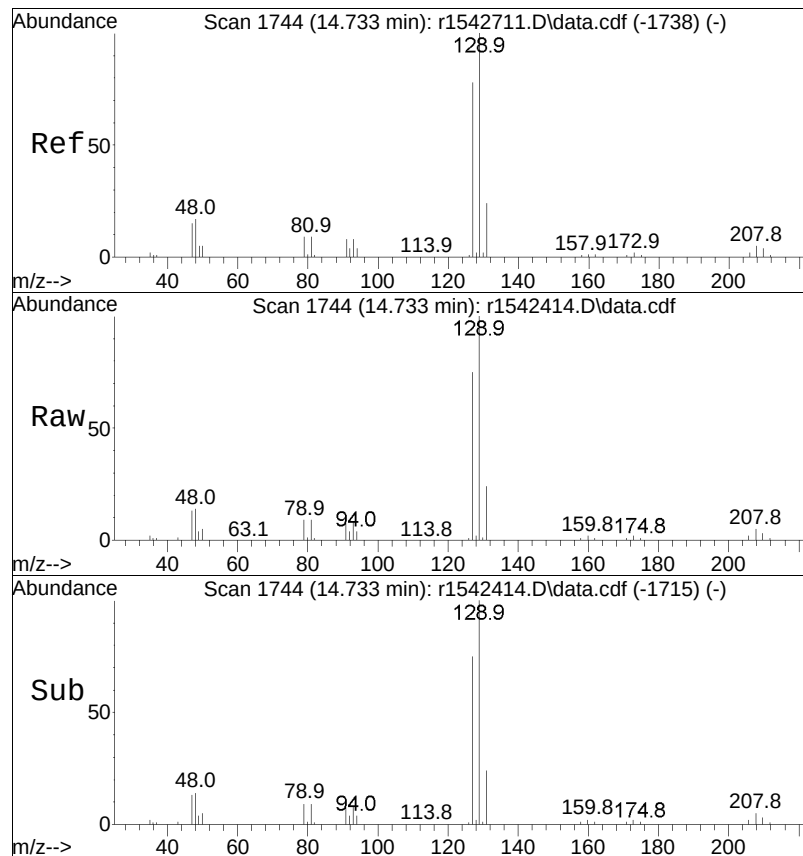




#71
 1,3-dichloropropane
 Concen: 8.94 ppbV
 RT: 14.317 min Scan# 1694
 Delta R.T. 0.042 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

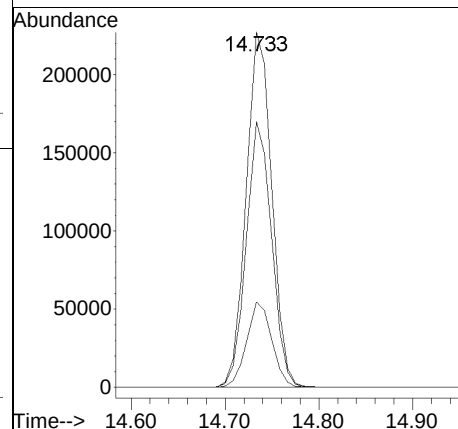
Tgt Ion	Ratio	Lower	Upper
76	100		
41	73.4	50.2	75.2
49	13.0	9.7	14.5

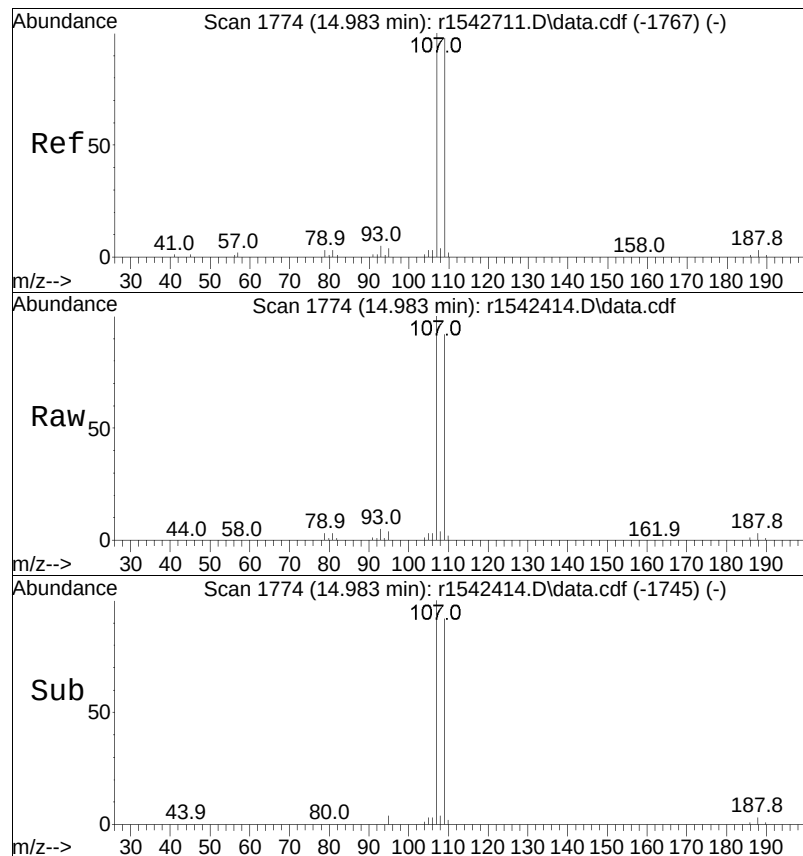




#74
 dibromochloromethane
 Concen: 10.63 ppbV
 RT: 14.733 min Scan# 1744
 Delta R.T. 0.042 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

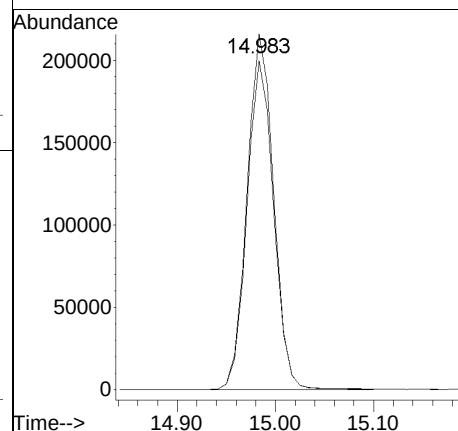
Tgt	Ion	Ratio	Resp	Lower	Upper
129	100		432812		
127	74.7	61.9		92.9	
131	24.1	19.0		28.6	

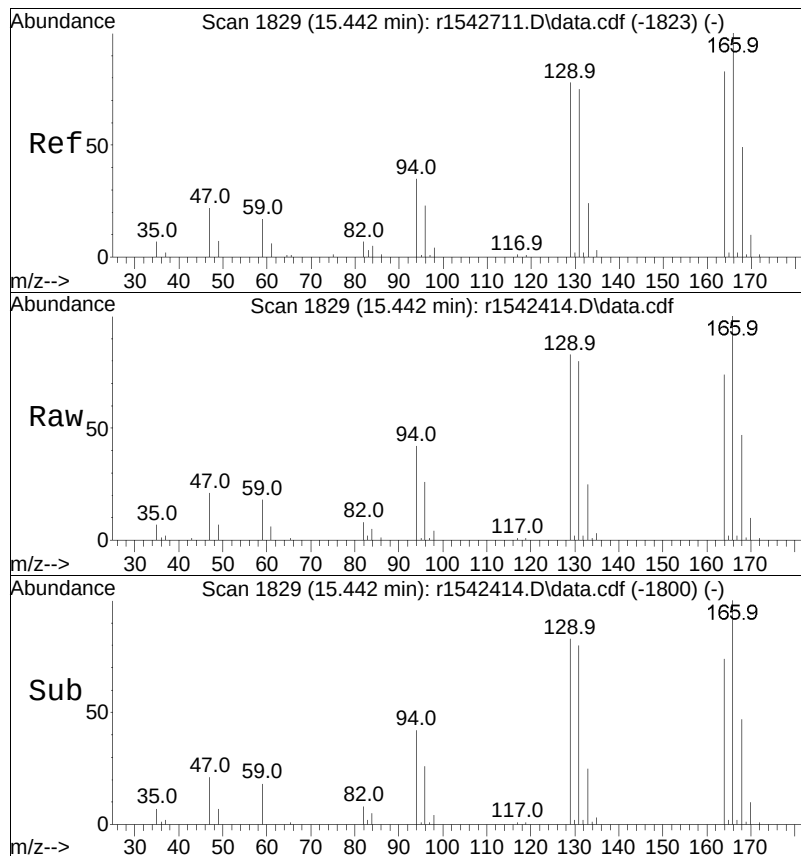




#75
 1,2-dibromoethane
 Concen: 8.57 ppbV
 RT: 14.983 min Scan# 1774
 Delta R.T. 0.042 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

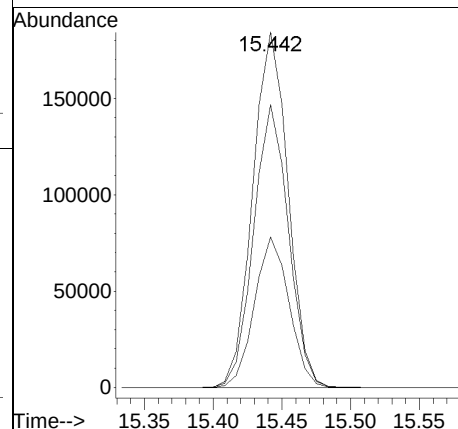
Tgt Ion	Ratio	Lower	Upper
107	100		
109	92.5	78.2	117.4

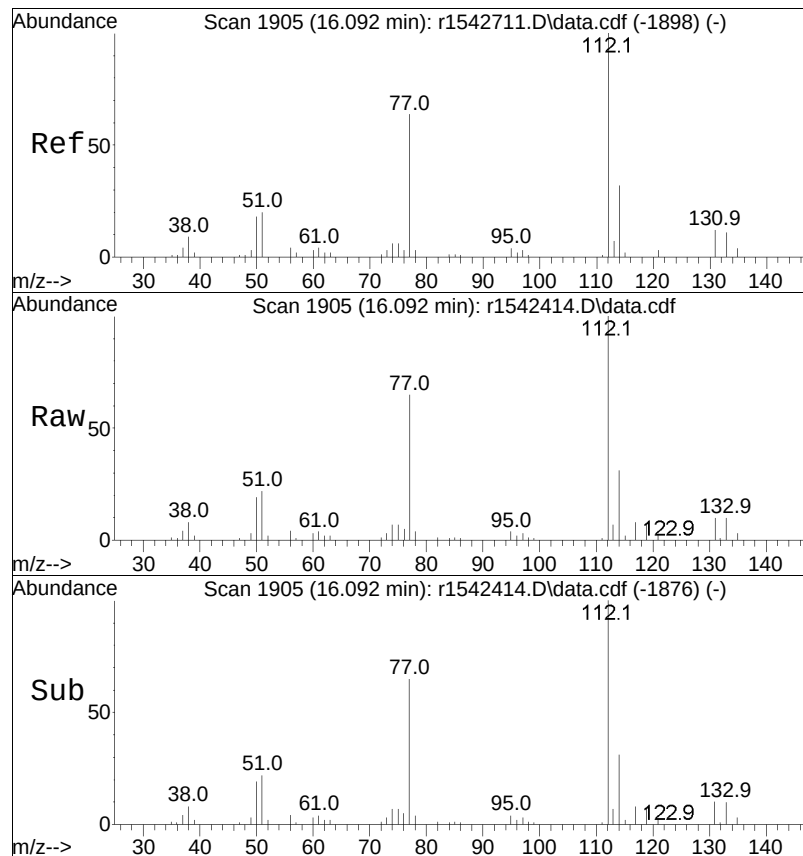




#78
 tetrachloroethene
 Concen: 7.85 ppbV
 RT: 15.442 min Scan# 1829
 Delta R.T. 0.042 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

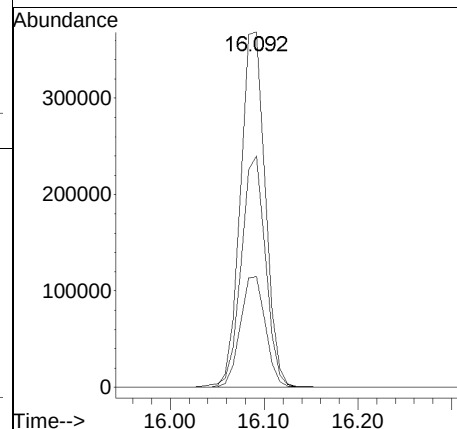
Tgt Ion	Ratio	Lower	Upper
166	100		
131	79.5	55.6	83.4
94	42.3	25.4	38.2#

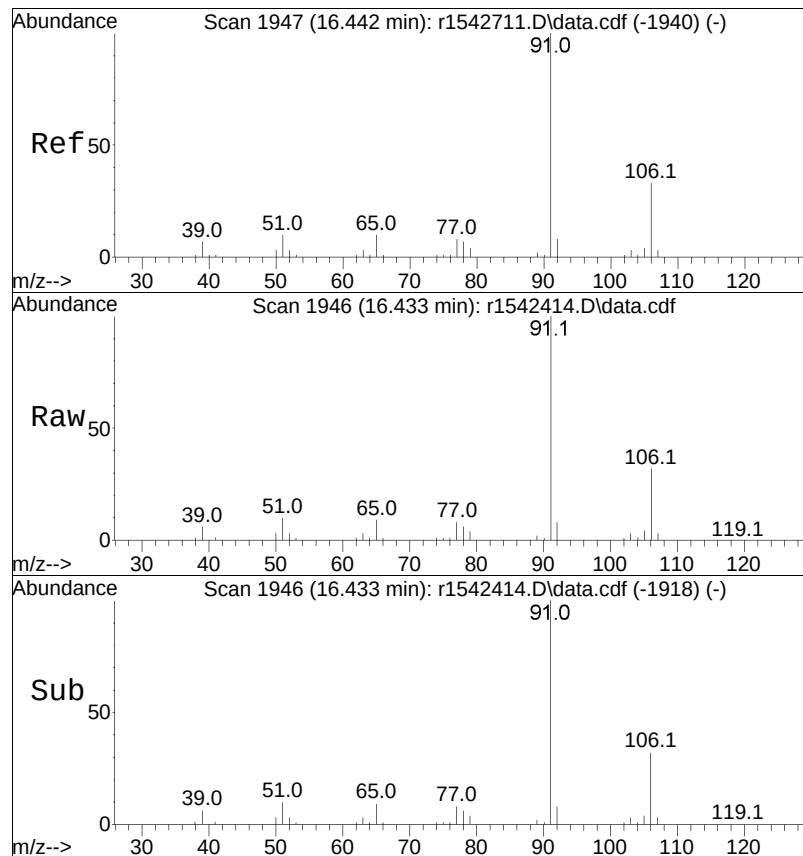




#80
chlorobenzene
Concen: 8.32 ppbV
RT: 16.092 min Scan# 1905
Delta R.T. 0.042 min
Lab File: r1542414.D
Acq: 31 Jan 2024 12:18 PM

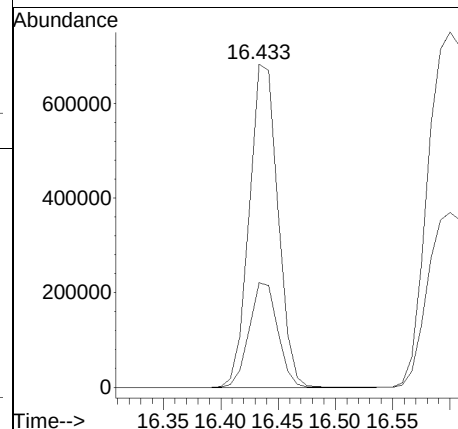
Tgt	Ion:112	Resp:	680813
Ion	Ratio	Lower	Upper
112	100		
114	31.2	26.2	39.4
77	65.2	49.0	73.4

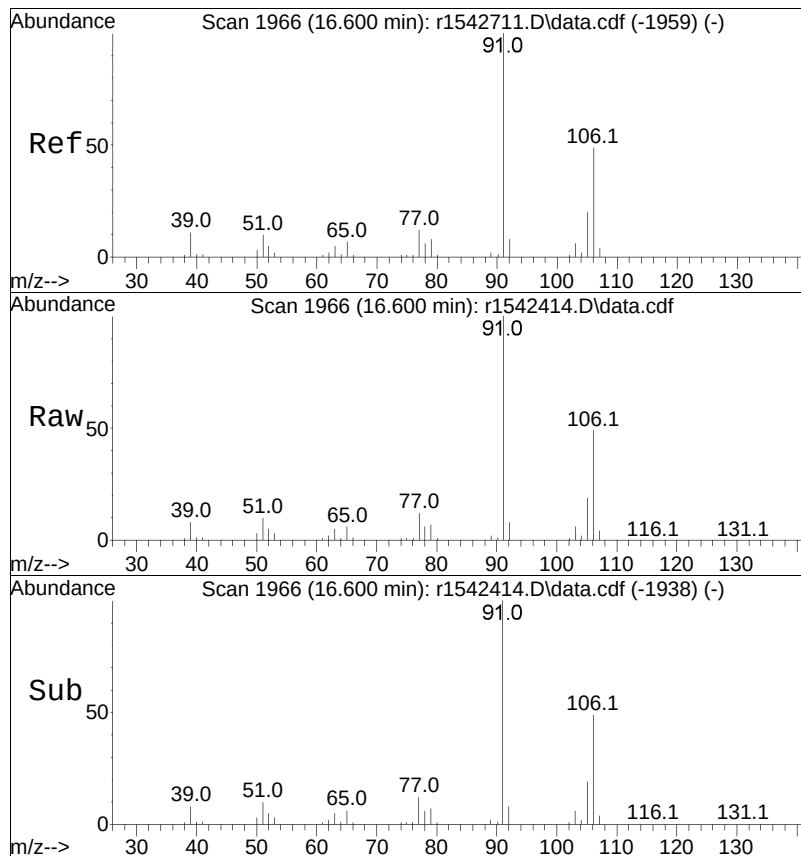




#81
ethylbenzene
Concen: 8.85 ppbV
RT: 16.433 min Scan# 1946
Delta R.T. 0.033 min
Lab File: r1542414.D
Acq: 31 Jan 2024 12:18 PM

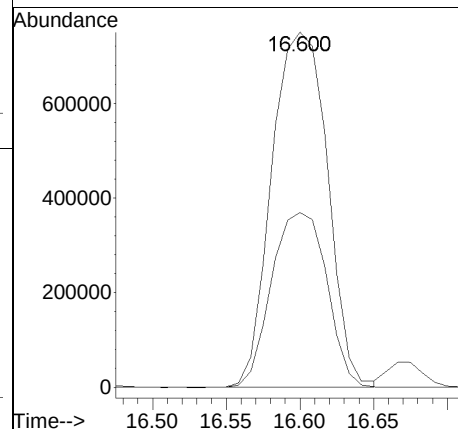
Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
106	32.4	27.7	41.5	

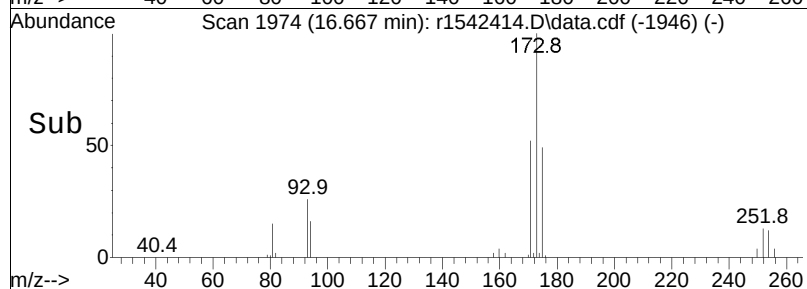
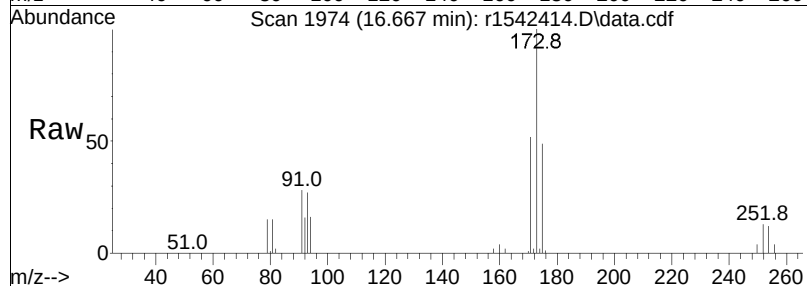
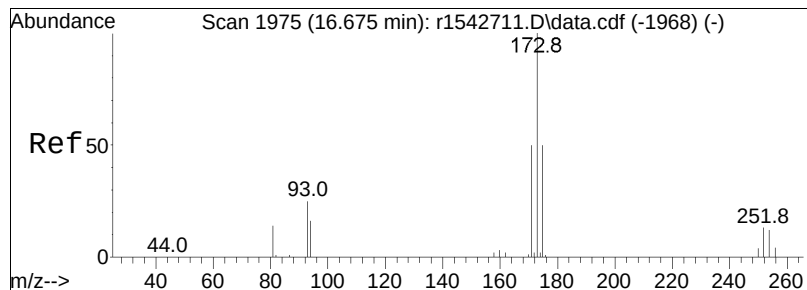




#83
 m+p-xylene
 Concen: 18.64 ppbV
 RT: 16.600 min Scan# 1966
 Delta R.T. 0.033 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

Tgt Ion: 91 Resp: 1970857
 Ion Ratio Lower Upper
 91 100
 106 49.2 42.7 64.1





#84

bromoform

Concen: 9.72 ppbV

RT: 16.667 min Scan# 1974

Delta R.T. 0.033 min

Lab File: r1542414.D

Acq: 31 Jan 2024 12:18 PM

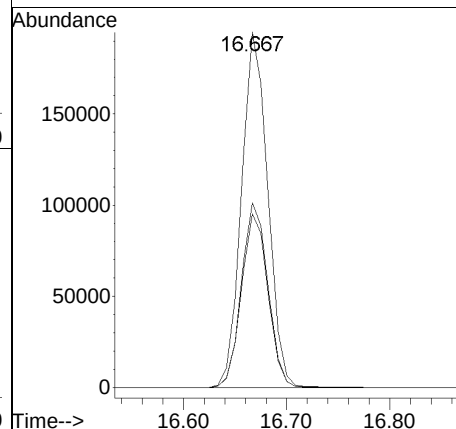
Tgt Ion:173 Resp: 343628

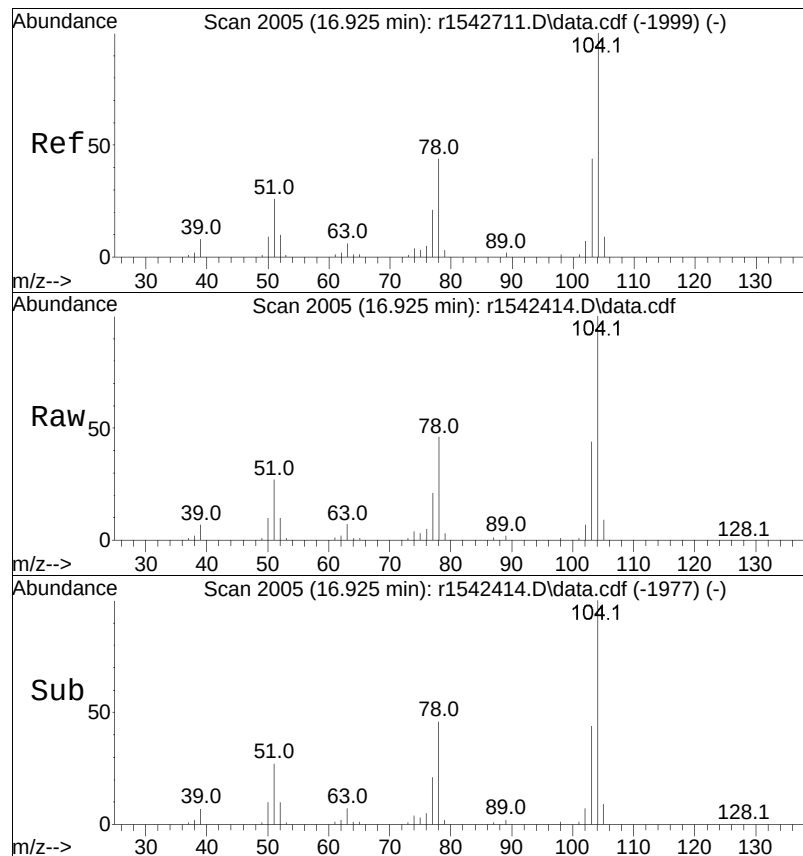
Ion Ratio Lower Upper

173 100

175 48.9 37.5 56.3

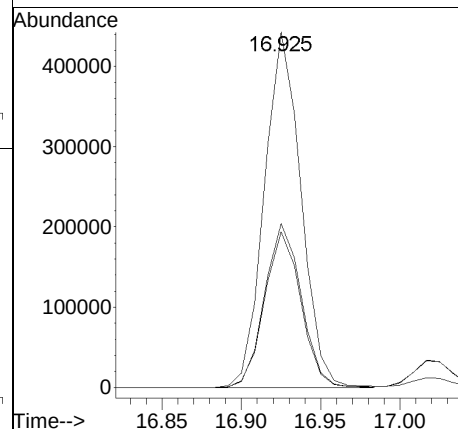
171 52.0 41.6 62.4

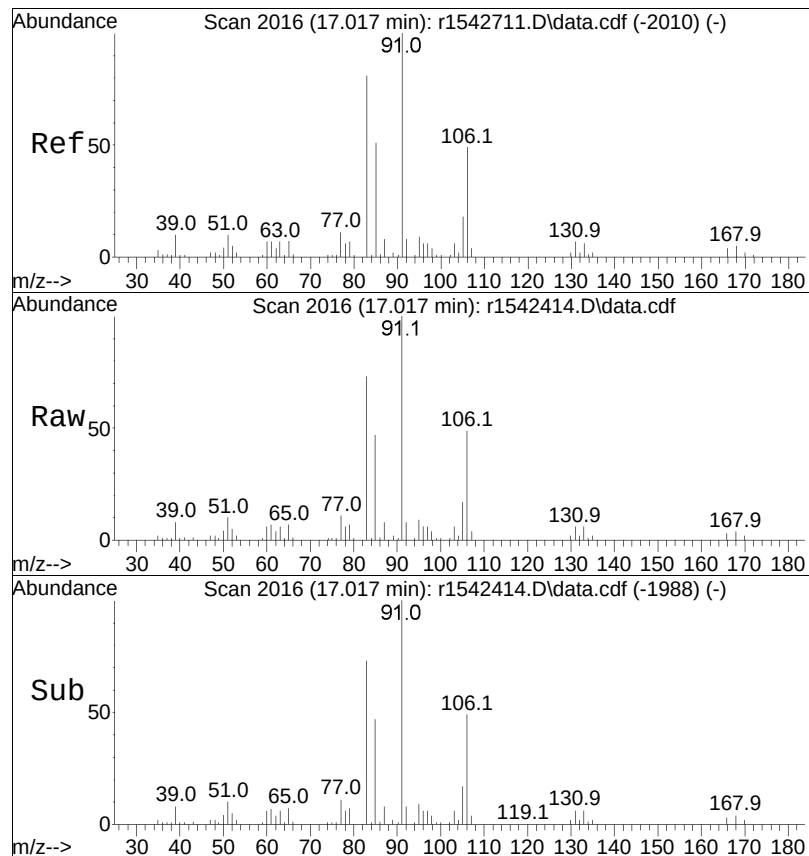




#85
styrene
Concen: 8.28 ppbV
RT: 16.925 min Scan# 2005
Delta R.T. 0.033 min
Lab File: r1542414.D
Acq: 31 Jan 2024 12:18 PM

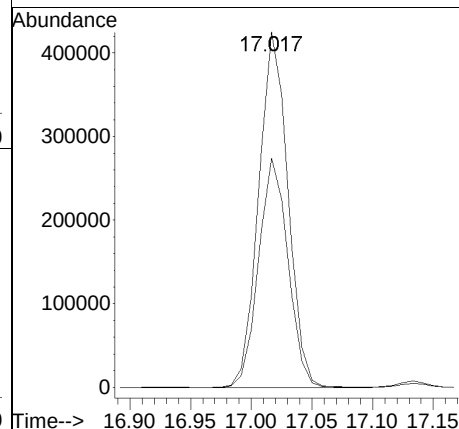
Tgt	Ion	Ratio	Lower	Upper
104	100			
103	43.8	34.9	52.3	
78	46.1	36.2	54.4	

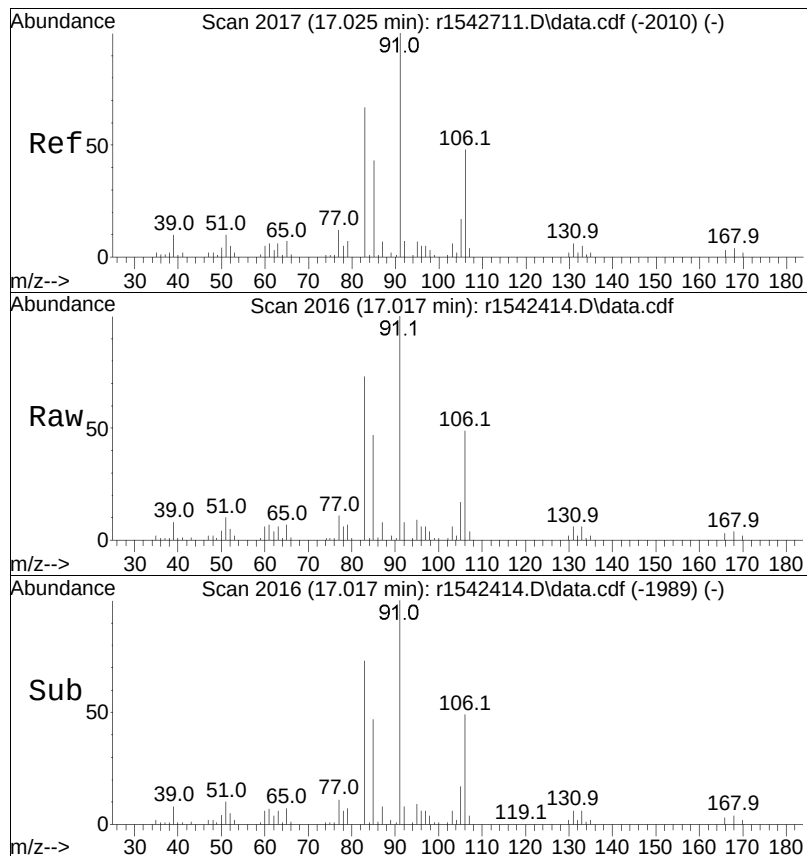




#86
 1,1,2,2-tetrachloroethane
 Concen: 8.94 ppbV
 RT: 17.017 min Scan# 2016
 Delta R.T. 0.033 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

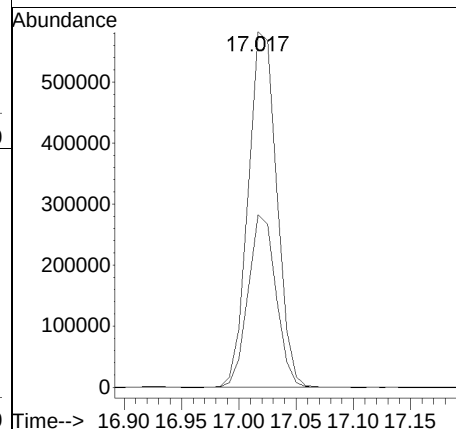
Tgt Ion:	83	Resp:	711271
Ion Ratio	Lower	Upper	
83	100		
85	64.5	51.6	77.4

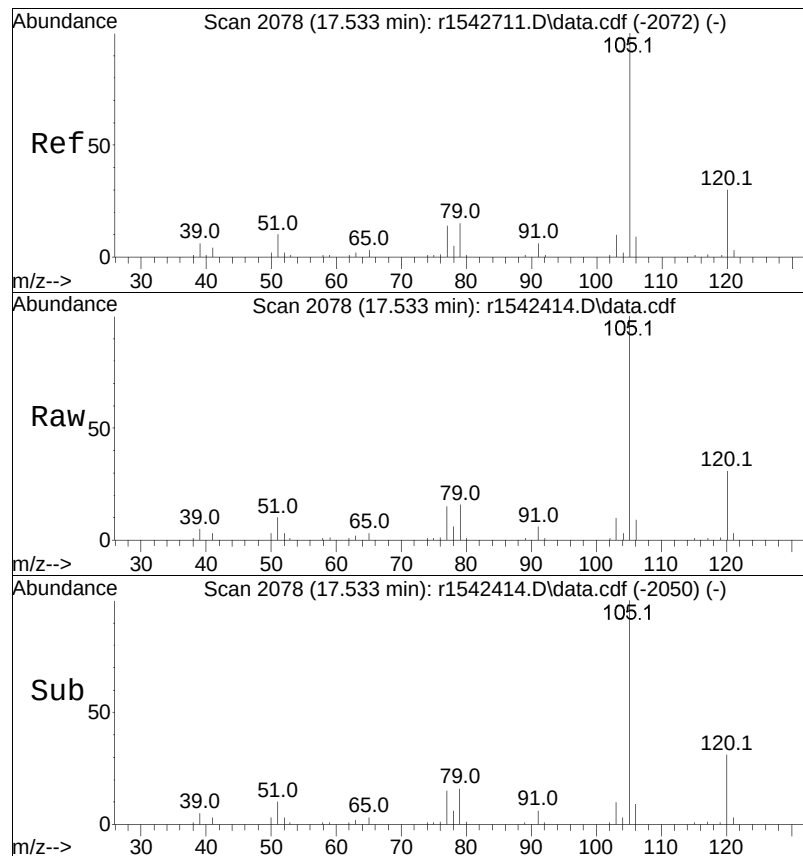




#87
 o-xylene
 Concen: 9.58 ppbV
 RT: 17.017 min Scan# 2016
 Delta R.T. 0.025 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

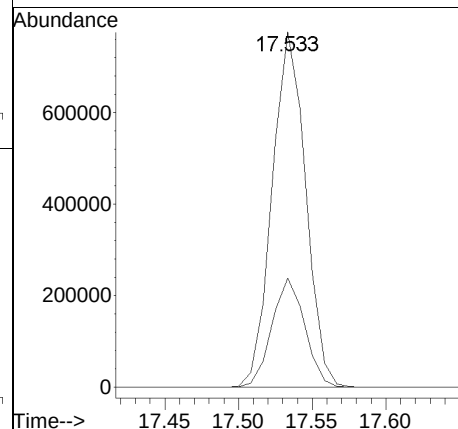
Tgt Ion: 91 Resp: 1010914
 Ion Ratio Lower Upper
 91 100
 106 48.6 40.0 60.0

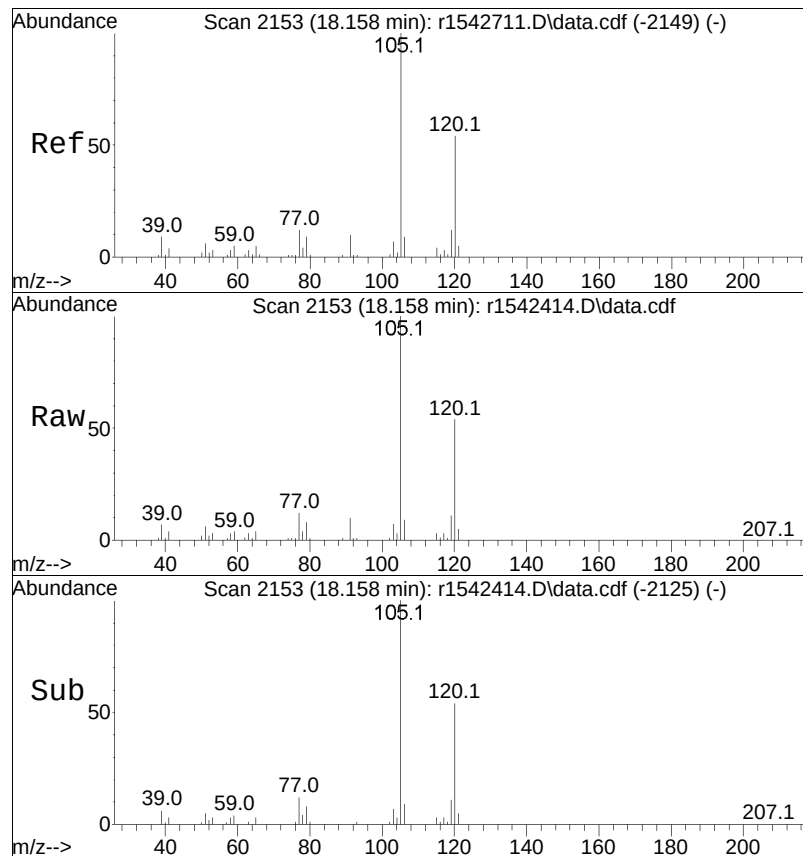




#91
isopropylbenzene
Concen: 9.16 ppbV
RT: 17.533 min Scan# 2078
Delta R.T. 0.033 min
Lab File: r1542414.D
Acq: 31 Jan 2024 12:18 PM

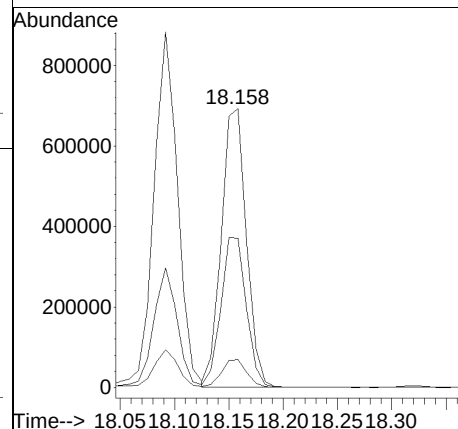
Tgt	Ion	Ratio	Lower	Upper
105	100			
120	30.8	26.2	39.4	

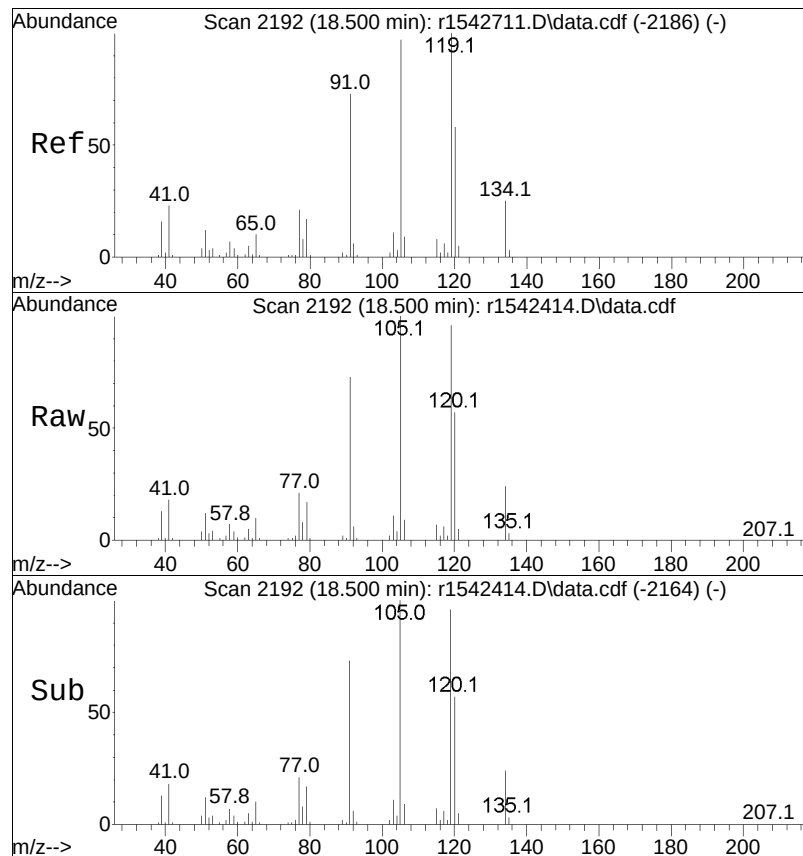




#97
 1,3,5-trimethylbenzene
 Concen: 9.45 ppbV
 RT: 18.158 min Scan# 2153
 Delta R.T. 0.033 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

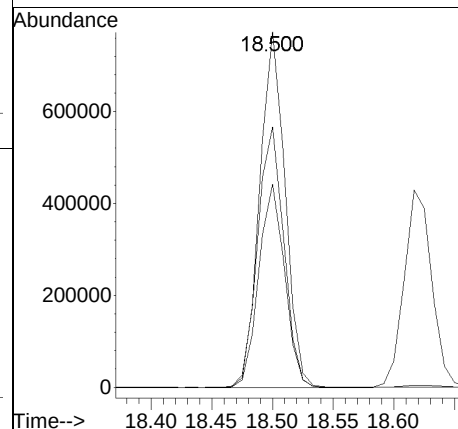
Tgt Ion	Ratio	Lower	Upper
105	100		
120	53.6	46.0	69.0
91	10.0	7.5	11.3

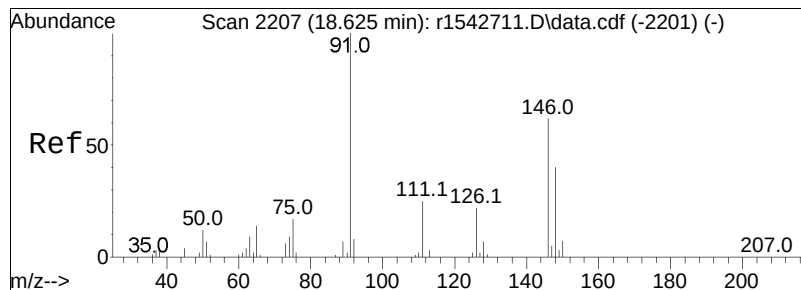




#99
 1,2,4-trimethylbenzene
 Concen: 9.53 ppbV
 RT: 18.500 min Scan# 2192
 Delta R.T. 0.033 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

Tgt Ion	Ratio	Lower	Upper
105	100		
120	57.2	51.8	77.6
91	73.3	58.3	87.5





#101

Benzyl Chloride

Concen: 9.53 ppbV

RT: 18.617 min Scan# 2206

Delta R.T. 0.025 min

Lab File: r1542414.D

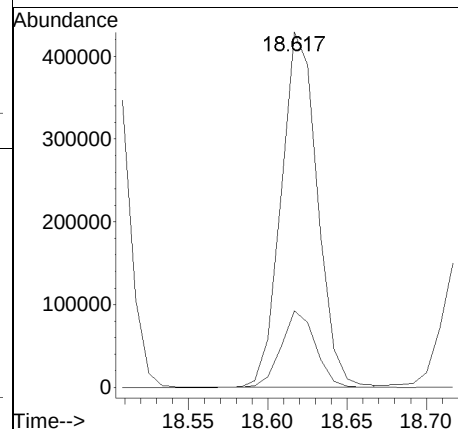
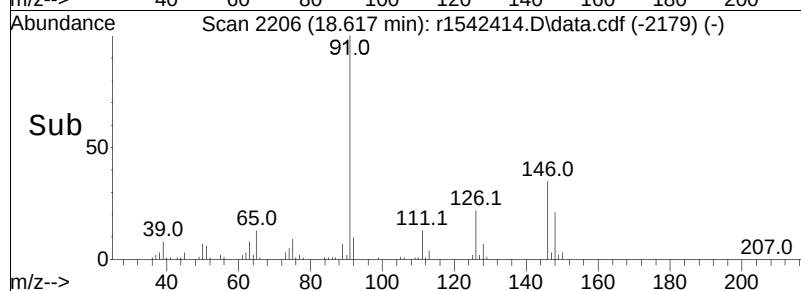
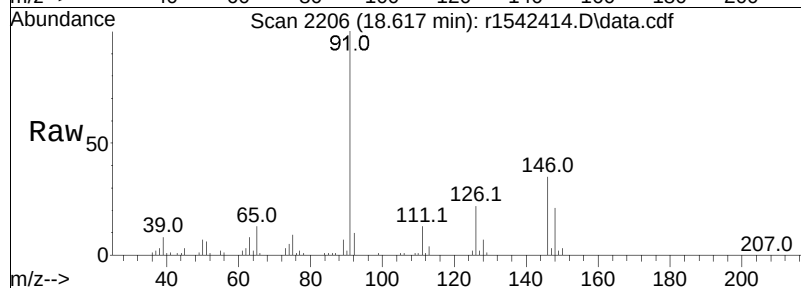
Acq: 31 Jan 2024 12:18 PM

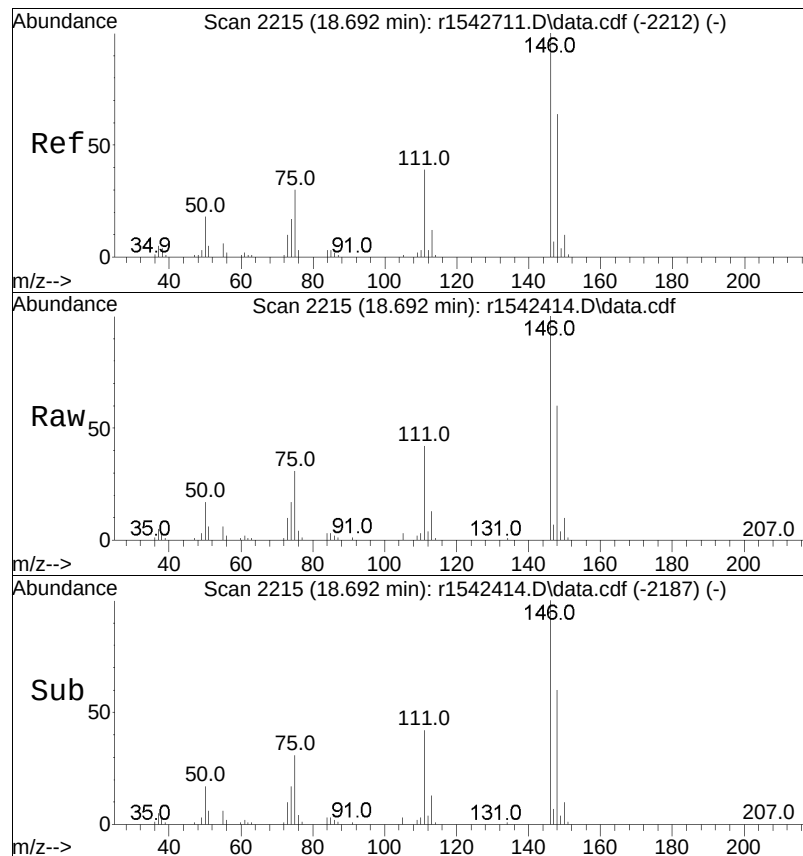
Tgt Ion: 91 Resp: 679029

Ion Ratio Lower Upper

91 100

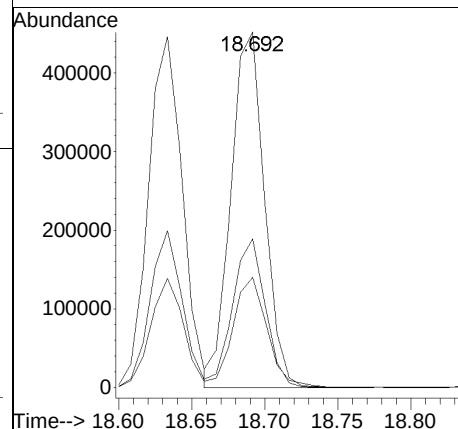
126 21.5 18.0 27.0

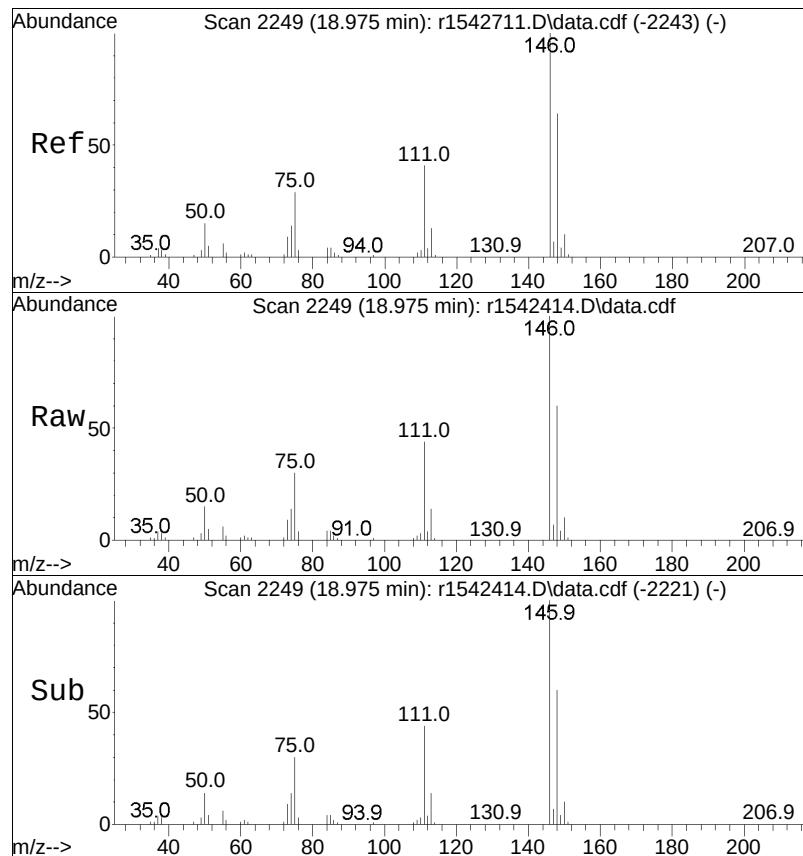




#103
 1,4-dichlorobenzene
 Concen: 8.69 ppbV m
 RT: 18.692 min Scan# 2215
 Delta R.T. 0.033 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

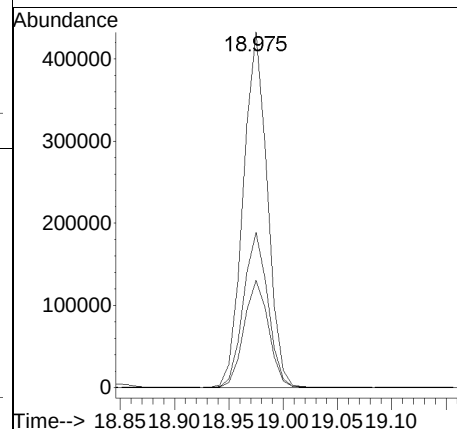
Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.8	32.2	48.4
75	31.0	21.8	32.6

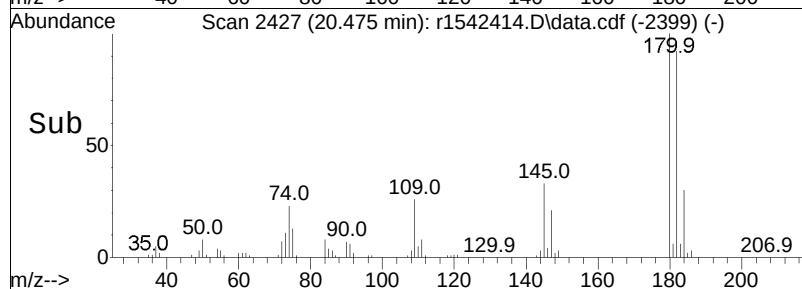
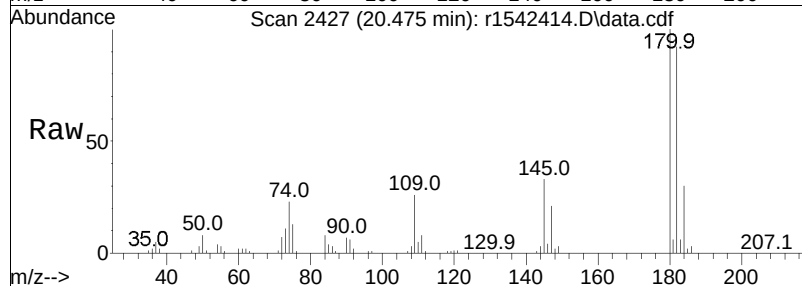
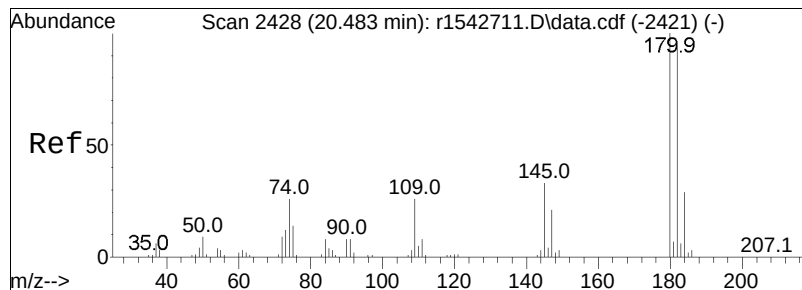




#107
 1,2-dichlorobenzene
 Concen: 8.47 ppbV
 RT: 18.975 min Scan# 2249
 Delta R.T. 0.033 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

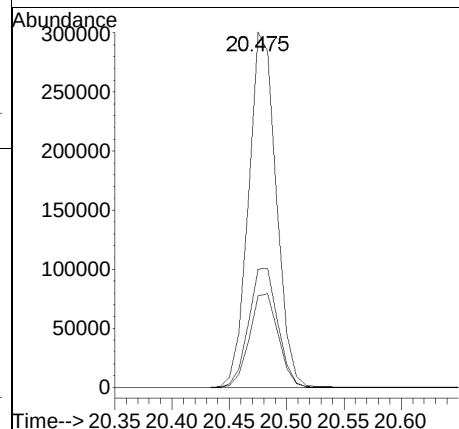
Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.6	32.1	48.1
75	30.1	21.1	31.7

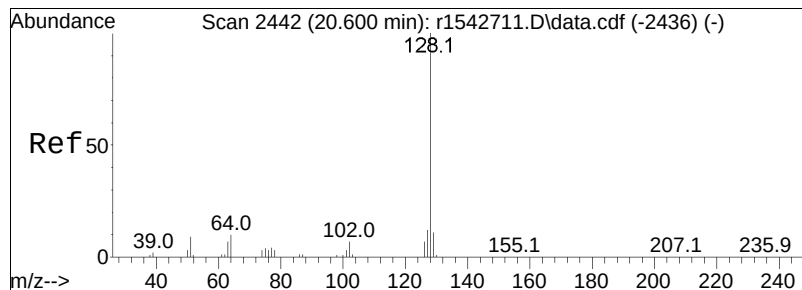




#115
 1,2,4-trichlorobenzene
 Concen: 8.25 ppbV
 RT: 20.475 min Scan# 2427
 Delta R.T. 0.033 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

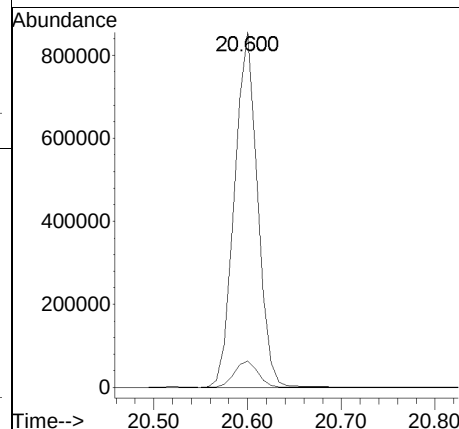
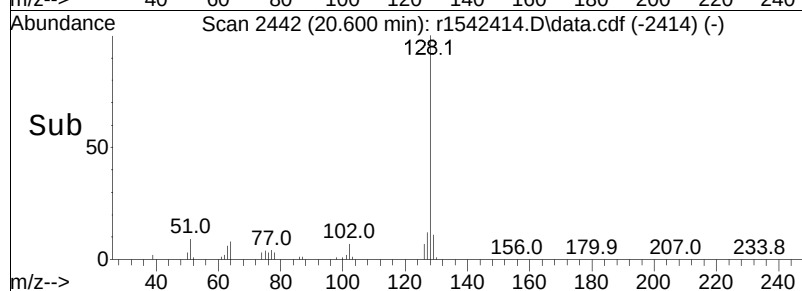
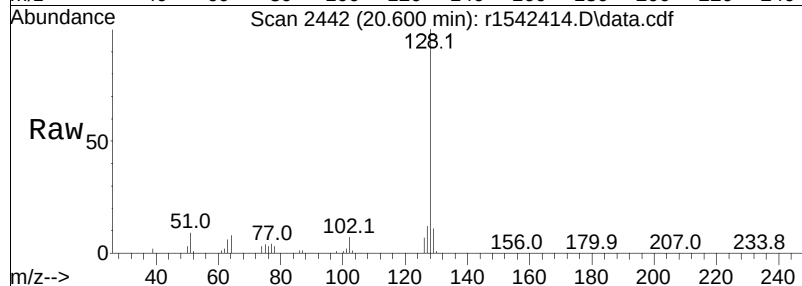
Tgt Ion	Ratio	Lower	Upper
180	100		
145	33.3	25.1	37.7
109	25.8	17.5	26.3





#116
 naphthalene
 Concen: 9.14 ppbV
 RT: 20.600 min Scan# 2442
 Delta R.T. 0.033 min
 Lab File: r1542414.D
 Acq: 31 Jan 2024 12:18 PM

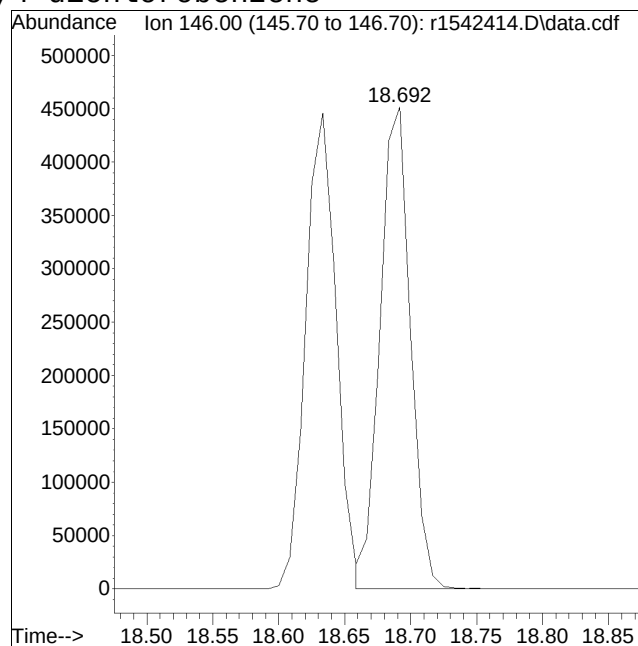
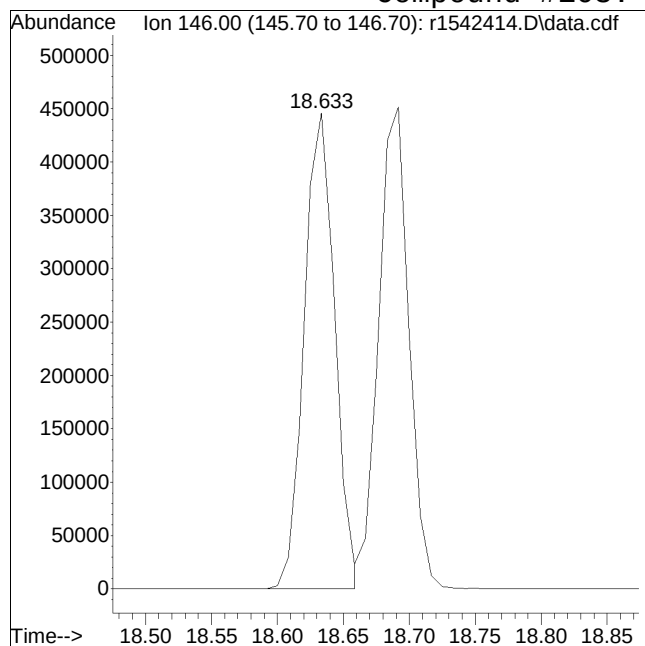
Tgt Ion:128 Resp: 1464049
 Ion Ratio Lower Upper
 128 100
 102 7.5 5.4 8.2



Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1542414.D Operator : AIRLAB15:JMB
Date Inj'd : 1/31/2020 0:2: 8 Instrument :
Sample : WG1880230-3,3,250,250 Quant Date : 1/31/2024 1:31 pm

Compound #103: 1,4-dichlorobenzene



Original Peak Response = 718106

Manual Peak Response = 721171 M3

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

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab17\2024\02\0201T\
 Data File : r1738298.D
 Acq On : 1 Feb 2024 3:22 PM
 Operator : AIRLAB17:JMB
 Sample : WG1880708-3,3,250,250
 Misc : WG1880708,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 15:32:25 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\02\0201T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	bromochloromethane	10.000	10.000	0.0	81	0.00
2	chlorodifluoromethane	10.000	9.167	8.3	76	0.00
3	propylene	10.000	9.141	8.6	83	0.00
4	propane	10.000	8.499	15.0	72	0.00
5	dichlorodifluoromethane	10.000	10.807	-8.1	86	0.00
6 C	chloromethane	10.000	9.575	4.3	76	0.00
7	Freon-114	10.000	10.891	-8.9	86	0.00
8 C	methanol	50.000	42.028	15.9	70	0.00
9 C	vinyl chloride	10.000	9.747	2.5	78	0.00
10 C	1,3-butadiene	10.000	9.990	0.1	81	0.00
11	butane	10.000	9.701	3.0	82	0.00
13 C	bromomethane	10.000	10.257	-2.6	82	0.00
14 C	chloroethane	10.000	10.103	-1.0	82	0.00
15	ethanol	50.000	49.382	1.2	78	0.00
16	dichlorofluoromethane	10.000	10.172	-1.7	86	0.00
17 C	vinyl bromide	10.000	10.192	-1.9	82	0.00
18 C	acrolein	10.000	8.774	12.3	76	0.00
19	acetone	50.000	49.291	1.4	85	0.00
20 C	acetonitrile	10.000	10.112	-1.1	87	0.00
21	trichlorofluoromethane	10.000	11.142	-11.4	89	0.00
22	isopropyl alcohol	25.000	21.349	14.6	69	0.00
23 C	acrylonitrile	10.000	9.356	6.4	80	0.00
24	pentane	10.000	9.719	2.8	83	0.00
25	ethyl ether	10.000	8.185	18.1	73	0.00
26 C	1,1-dichloroethene	10.000	10.292	-2.9	83	0.00
27	tertiary butyl alcohol	10.000	8.380	16.2	70	0.00
28 C	methylene chloride	10.000	10.930	-9.3	94	0.00
29 C	3-chloropropene	10.000	11.306	-13.1	92	0.00
30 C	carbon disulfide	10.000	9.437	5.6	74	0.00
31	Freon 113	10.000	10.821	-8.2	86	0.00
32	trans-1,2-dichloroethene	10.000	10.584	-5.8	85	0.00
33 C	1,1-dichloroethane	10.000	10.734	-7.3	86	0.00
34 C	MTBE	10.000	9.407	5.9	76	0.00
35 C	vinyl acetate	10.000	10.178	-1.8	81	0.00
36 C	2-butanone	10.000	10.874	-8.7	87	0.00
37	cis-1,2-dichloroethene	10.000	10.664	-6.6	85	0.00
38	Ethyl Acetate	10.000	11.032	-10.3	89	0.00
39 C	chloroform	10.000	10.449	-4.5	84	0.00
40	Tetrahydrofuran	10.000	10.803	-8.0	85	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab17\2024\02\0201T\
 Data File : r1738298.D
 Acq On : 1 Feb 2024 3:22 PM
 Operator : AIRLAB17:JMB
 Sample : WG1880708-3,3,250,250
 Misc : WG1880708,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 15:32:25 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\02\0201T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	2,2-dichloropropane	10.000	9.493	5.1	79	0.00
42 C	1,2-dichloroethane	10.000	10.870	-8.7	90	0.00
43 I	1,4-difluorobenzene	10.000	10.000	0.0	81	0.00
44 C	hexane	10.000	10.038	-0.4	83	0.00
45	diisopropyl ether	10.000	8.836	11.6	75	0.00
46	tert-butyl ethyl ether	10.000	8.683	13.2	74	0.00
48 C	1,1,1-trichloroethane	10.000	10.625	-6.3	87	0.00
49	1,1-dichloropropene	10.000	9.872	1.3	83	0.00
50 C	benzene	10.000	9.074	9.3	73	0.00
52 C	carbon tetrachloride	10.000	11.205	-12.1	88	0.00
53	cyclohexane	10.000	10.027	-0.3	83	0.00
54	tert-amyl methyl ether	10.000	8.518	14.8	71	0.00
55	dibromomethane	10.000	10.805	-8.0	91	0.00
56 C	1,2-dichloropropane	10.000	10.698	-7.0	85	0.00
57	bromodichloromethane	10.000	11.219	-12.2	89	0.00
58 C	1,4-dioxane	10.000	10.257	-2.6	82	0.00
59 C	trichloroethene	10.000	10.440	-4.4	84	0.00
60 C	2,2,4-trimethylpentane	10.000	9.843	1.6	85	0.00
61	methyl methacrylate	10.000	12.111	-21.1	96	0.00
62	heptane	10.000	11.034	-10.3	89	0.00
63 C	cis-1,3-dichloropropene	10.000	9.345	6.5	73	0.00
64 C	4-methyl-2-pentanone	10.000	11.050	-10.5	87	0.00
65	trans-1,3-dichloropropene	10.000	9.498	5.0	74	0.00
66 C	1,1,2-trichloroethane	10.000	10.673	-6.7	85	0.00
67 I	chlorobenzene-D5	10.000	10.000	0.0	85	0.00
68 C	toluene	10.000	9.708	2.9	81	0.00
71	1,3-dichloropropane	10.000	9.265	7.3	80	0.00
72	2-hexanone	10.000	10.544	-5.4	83	0.00
74	dibromochloromethane	10.000	12.378	-23.8	99	0.00
75 C	1,2-dibromoethane	10.000	10.055	-0.5	83	0.00
76	butyl acetate	10.000	9.120	8.8	75	0.00
77	octane	10.000	8.933	10.7	79	0.00
78 C	tetrachloroethene	10.000	9.755	2.4	81	0.00
79	1,1,1,2-tetrachloroethane	10.000	10.539	-5.4	90	0.00
80 C	chlorobenzene	10.000	9.495	5.1	79	0.00
81 C	ethylbenzene	10.000	9.971	0.3	81	0.00
83 C	m+p-xylene	20.000	20.480	-2.4	84	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab17\2024\02\0201T\
 Data File : r1738298.D
 Acq On : 1 Feb 2024 3:22 PM
 Operator : AIRLAB17:JMB
 Sample : WG1880708-3,3,250,250
 Misc : WG1880708,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 15:32:25 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\02\0201T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
84 C	bromoform	10.000	12.561	-25.6	98	0.00
85 C	styrene	10.000	9.476	5.2	75	0.00
86 C	1,1,2,2-tetrachloroethane	10.000	10.211	-2.1	84	0.00
87 C	o-xylene	10.000	10.208	-2.1	84	0.00
88	1,2,3-trichloropropane	10.000	9.245	7.6	81	0.00
89	nonane	10.000	9.372	6.3	80	0.00
91 C	isopropylbenzene	10.000	9.773	2.3	85	0.00
92	bromobenzene	10.000	9.195	8.0	80	0.00
93	2-chlorotoluene	10.000	9.615	3.8	83	0.00
94	n-propylbenzene	10.000	9.755	2.4	86	0.00
95	4-chlorotoluene	10.000	9.870	1.3	85	0.00
96	4-ethyl toluene	10.000	10.090	-0.9	84	0.00
97	1,3,5-trimethylbenzene	10.000	9.678	3.2	80	0.00
98	tert-butylbenzene	10.000	9.472	5.3	81	0.00
99	1,2,4-trimethylbenzene	10.000	9.729	2.7	79	0.00
100	decane	10.000	9.087	9.1	79	0.00
101 C	Benzyl Chloride	10.000	9.340	6.6	75	0.00
102	1,3-dichlorobenzene	10.000	10.233	-2.3	83	0.00
103 C	1,4-dichlorobenzene	10.000	10.356	-3.6	82	0.00
104	sec-butylbenzene	10.000	9.198	8.0	80	0.00
106	p-isopropyltoluene	10.000	8.585	14.1	74	0.00
107	1,2-dichlorobenzene	10.000	9.893	1.1	81	0.00
108	n-butylbenzene	10.000	9.772	2.3	85	0.00
111 C	1,2-dibromo-3-chloropropane	10.000	9.554	4.5	81	0.00
112	undecane	10.000	8.942	10.6	77	0.00
114	dodecane	10.000	8.784	12.2	74	0.03
115 C	1,2,4-trichlorobenzene	10.000	8.938	10.6	68	0.00
116	naphthalene	10.000	8.669	13.3	76	0.00
117	1,2,3-trichlorobenzene	10.000	9.141	8.6	80	0.00
119 C	hexachlorobutadiene	10.000	9.582	4.2	76	0.02

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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\02\0201T\
 Data File : r1738298.D
 Acq On : 1 Feb 2024 3:22 PM
 Operator : AIRLAB17:JMB
 Sample : WG1880708-3,3,250,250
 Misc : WG1880708,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 15:32:25 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\02\0201T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\02\0201T\r1738297.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.842	49	346430	10.000	ppbV	0.00
Standard Area = 342891			Recovery =	101.03%		
43) 1,4-difluorobenzene	11.070	114	915365	10.000	ppbV	0.00
Standard Area = 918799			Recovery =	99.63%		
67) chlorobenzene-D5	15.833	54	131155	10.000	ppbV	0.00
Standard Area = 130233			Recovery =	100.71%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	3.868	85	354872	10.807	ppbV	99
6) chloromethane	4.018	50	167040	9.575	ppbV	98
9) vinyl chloride	4.234	62	176453	9.747	ppbV	100
10) 1,3-butadiene	4.372	54	155688	9.990	ppbV	90
13) bromomethane	4.642	94	152517	10.257	ppbV	99
14) chloroethane	4.822	64	84511	10.103	ppbV	99
17) vinyl bromide	5.183	106	145400	10.192	ppbV	98
18) acrolein	5.303	56	75578	8.774	ppbV	99
19) acetone	5.437	43	1039630	49.291	ppbV	93
21) trichlorofluoromethane	5.630	101	289527	11.142	ppbV	99
22) isopropyl alcohol	5.700	45	585123	21.349	ppbV	100
23) acrylonitrile	5.940	53	149690	9.356	ppbV	98
26) 1,1-dichloroethene	6.312	61	241150	10.292	ppbV	99
28) methylene chloride	6.450	49	253839	10.930	ppbV	92
29) 3-chloropropene	6.582	41	293199	11.306	ppbV	96
30) carbon disulfide	6.744	76	545443	9.437	ppbV	97
31) Freon 113	6.750	101	364117	10.821	ppbV	98
32) trans-1,2-dichloroethene	7.492	61	258062	10.584	ppbV	99
33) 1,1-dichloroethane	7.708	63	330498	10.734	ppbV	98
34) MTBE	7.775	73	427989	9.407	ppbV	98
37) cis-1,2-dichloroethene	8.658	61	244548	10.664	ppbV	98
39) chloroform	8.992	83	340193	10.449	ppbV	99
40) Tetrahydrofuran	9.417	42	259512	10.803	ppbV	96
42) 1,2-dichloroethane	9.825	62	201692	10.870	ppbV	95
44) hexane	8.908	57	303976	10.038	ppbV	97
48) 1,1,1-trichloroethane	10.117	97	280162	10.625	ppbV	98
50) benzene	10.643	78	615564	9.074	ppbV	99
52) carbon tetrachloride	10.817	117	278212	11.205	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\02\0201T\
 Data File : r1738298.D
 Acq On : 1 Feb 2024 3:22 PM
 Operator : AIRLAB17:JMB
 Sample : WG1880708-3,3,250,250
 Misc : WG1880708,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 15:32:25 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\02\0201T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

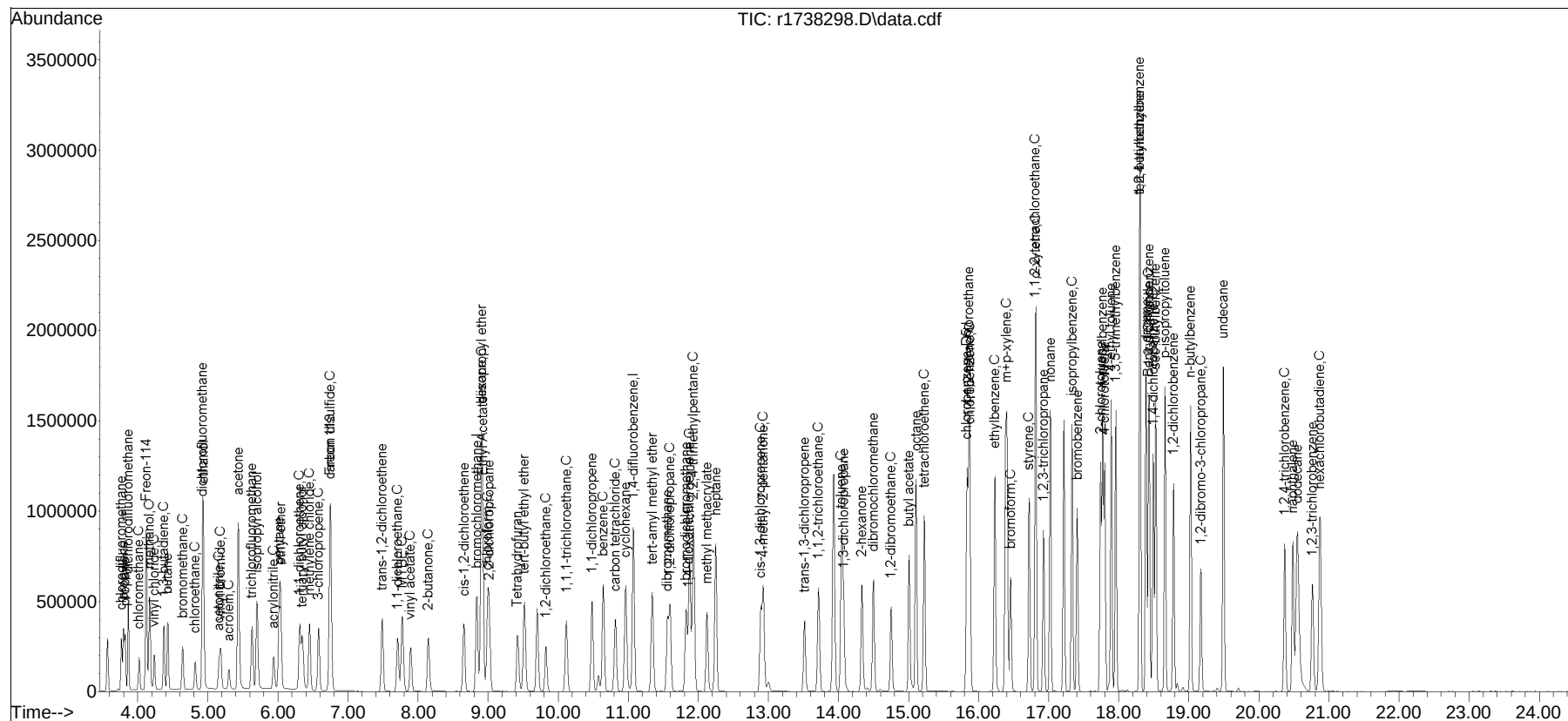
CCAL FILE : 0:\Forensics\Data\Airlab17\2024\02\0201T\r1738297.D
 Sub List : Default-LCS-AP2 - All compounds listed

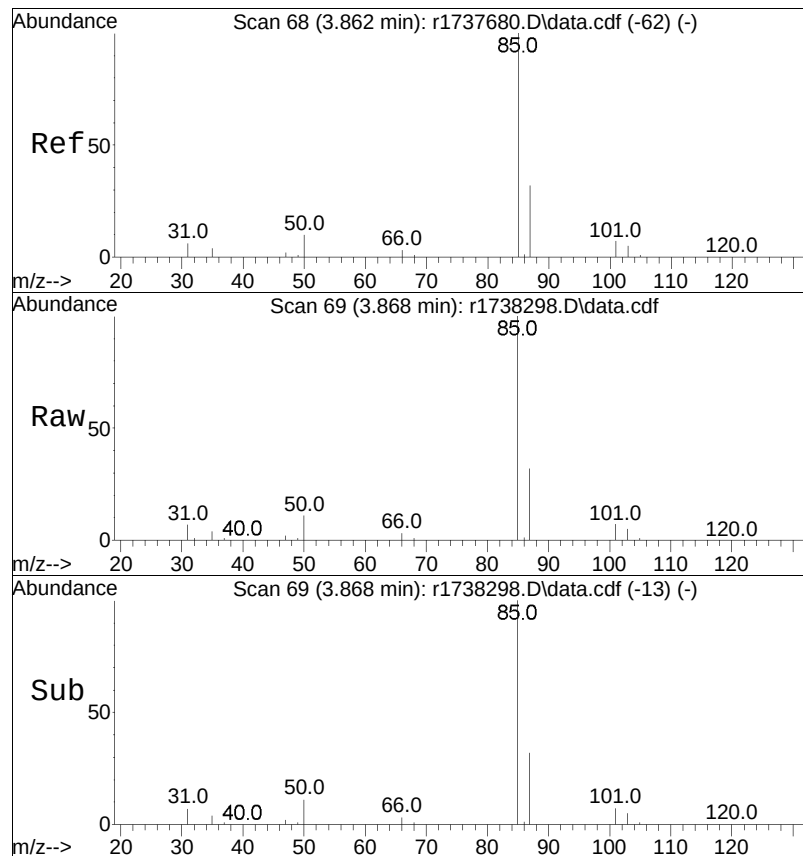
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) cyclohexane	10.963	56	324714	10.027	ppbV	94
56) 1,2-dichloropropane	11.597	63	223049	10.698	ppbV	98
57) bromodichloromethane	11.823	83	356945	11.219	ppbV	99
58) 1,4-dioxane	11.857	88	133905	10.257	ppbV	98
59) trichloroethene	11.877	130	269466	10.440	ppbV	98
61) methyl methacrylate	12.123	41	273978	12.111	ppbV	95
64) 4-methyl-2-pentanone	12.925	43	558612	11.050	ppbV	97
66) 1,1,2-trichloroethane	13.717	97	247242	10.673	ppbV	97
68) toluene	14.042	91	699993	9.708	ppbV	100
71) 1,3-dichloropropane	14.075	76	335442	9.265	ppbV	90
74) dibromochloromethane	14.500	129	376824	12.378	ppbV	100
75) 1,2-dibromoethane	14.750	107	372655	10.055	ppbV	97
78) tetrachloroethene	15.225	166	280858	9.755	ppbV	91
80) chlorobenzene	15.875	112	588054	9.495	ppbV	100
81) ethylbenzene	16.233	91	905808	9.971	ppbV	98
83) m+p-xylene	16.400	91	1474127	20.480	ppbV	96
84) bromoform	16.458	173	295631	12.561	ppbV	98
85) styrene	16.717	104	577205	9.476	ppbV	97
86) 1,1,2,2-tetrachloroethane	16.808	83	554233	10.211	ppbV	99
87) o-xylene	16.817	91	735339	10.208	ppbV	96
91) isopropylbenzene	17.333	105	941800	9.773	ppbV	99
97) 1,3,5-trimethylbenzene	17.958	105	828748	9.678	ppbV	99
99) 1,2,4-trimethylbenzene	18.300	105	829029	9.729	ppbV	95
101) Benzyl Chloride	18.425	91	442901	9.340	ppbV	97
103) 1,4-dichlorobenzene	18.492	146	516709	10.356	ppbV	96
107) 1,2-dichlorobenzene	18.783	146	483242	9.893	ppbV	99
115) 1,2,4-trichlorobenzene	20.367	180	289401	8.938	ppbV	98
116) naphthalene	20.483	128	779912	8.669	ppbV	100

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

```
Data Path : 0:\Forensics\Data\AirLab17\2024\02\0201T\
Data File : r1738298.D
Acq On    : 1 Feb 2024    3:22 PM
Operator  : AIRLAB17:JMB
Sample    : WG1880708-3,3,250,250
Misc      : WG1880708,ICAL20743
ALS Vial  : 0    Sample Multiplier: 1
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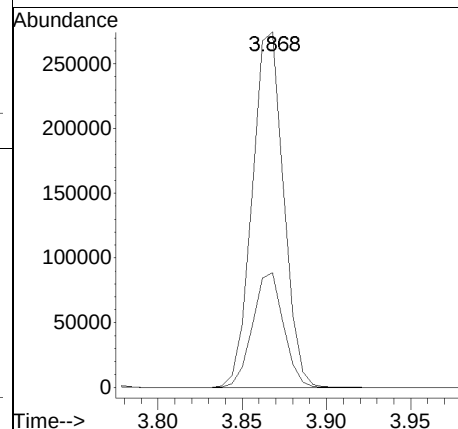
Quant Time: Feb 01 15:32:25 2024
Quant Method : 0:\Forensics\Data\AirLab17\2024\02\0201T\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

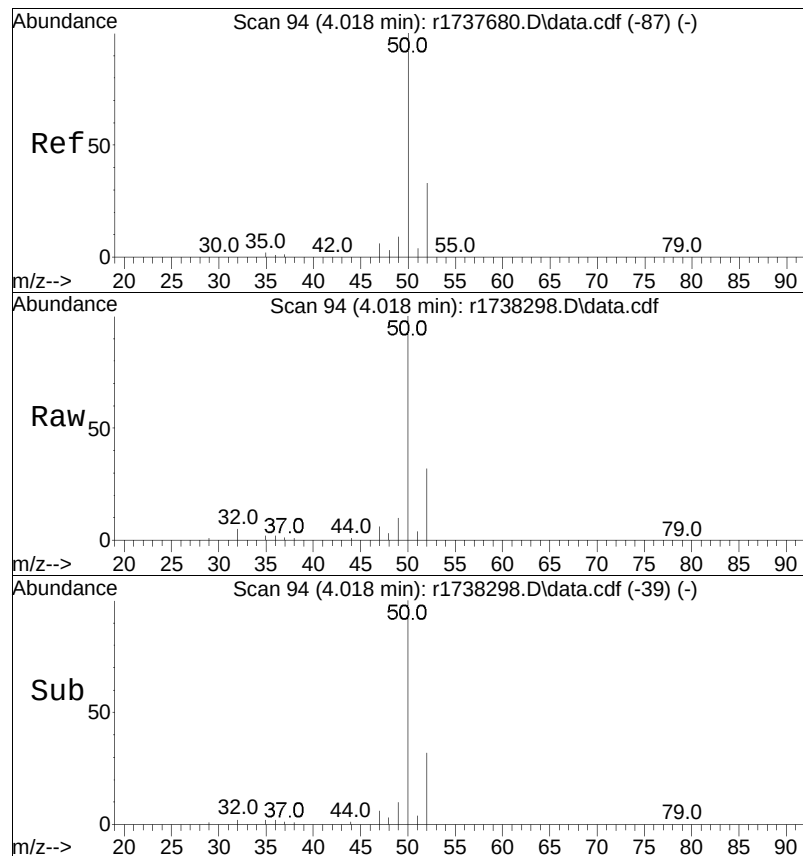




#5
 dichlorodifluoromethane
 Concen: 10.81 ppbV
 RT: 3.868 min Scan# 69
 Delta R.T. 0.006 min
 Lab File: r1738298.D
 Acq: 1 Feb 2024 3:22 PM

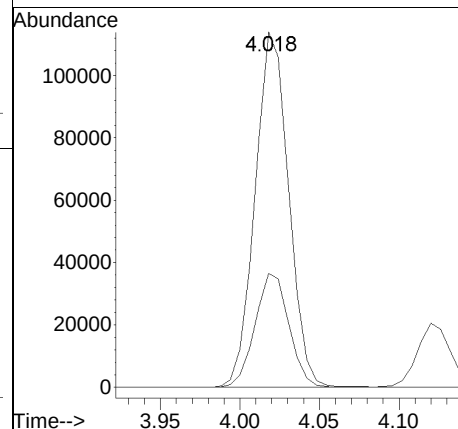
Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.3	25.4	38.0

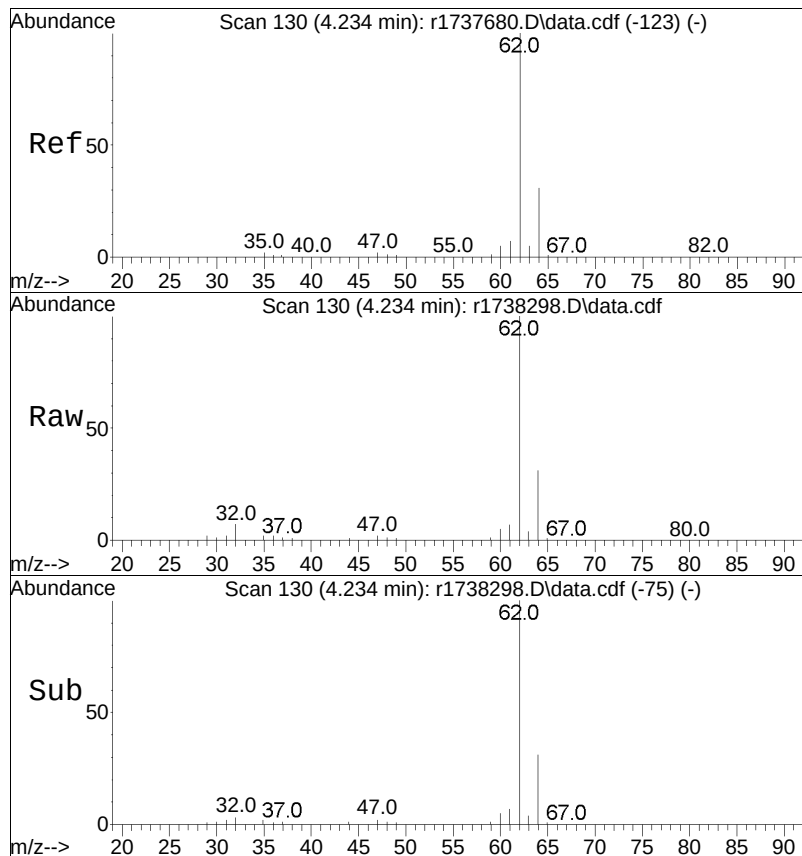




#6
 chloromethane
 Concen: 9.58 ppbV
 RT: 4.018 min Scan# 94
 Delta R.T. 0.000 min
 Lab File: r1738298.D
 Acq: 1 Feb 2024 3:22 PM

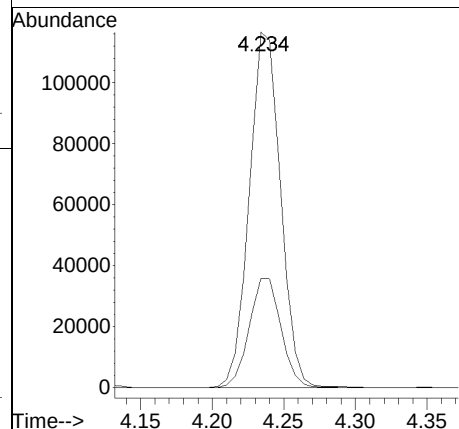
Tgt	Ion	Ratio	Lower	Upper
50	100			
52	32.1	26.4	39.6	

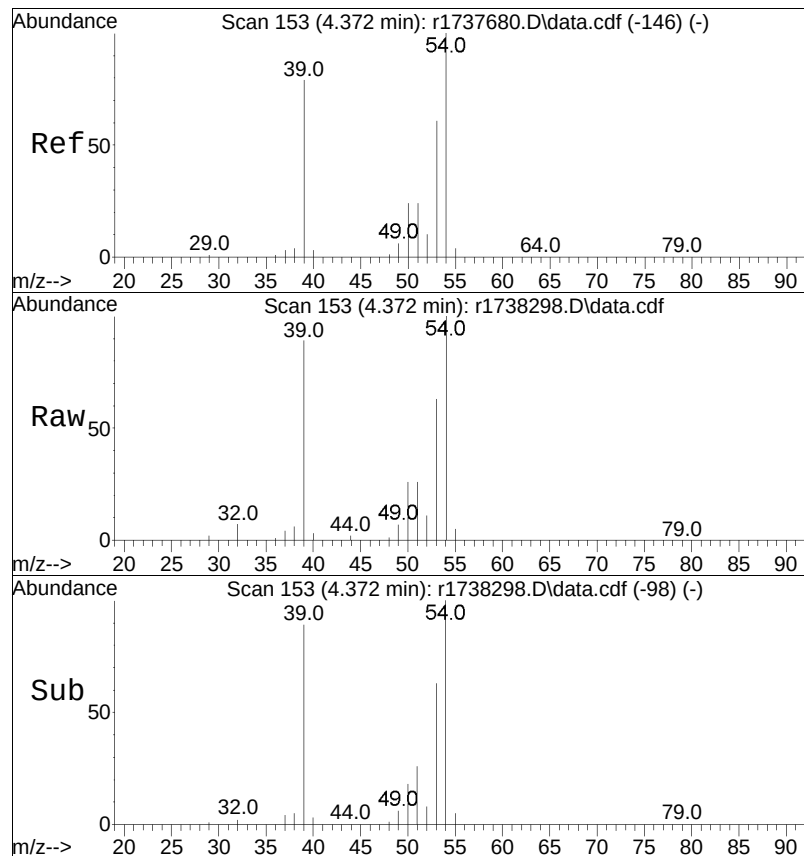




#9
 vinyl chloride
 Concen: 9.75 ppbV
 RT: 4.234 min Scan# 130
 Delta R.T. 0.000 min
 Lab File: r1738298.D
 Acq: 1 Feb 2024 3:22 PM

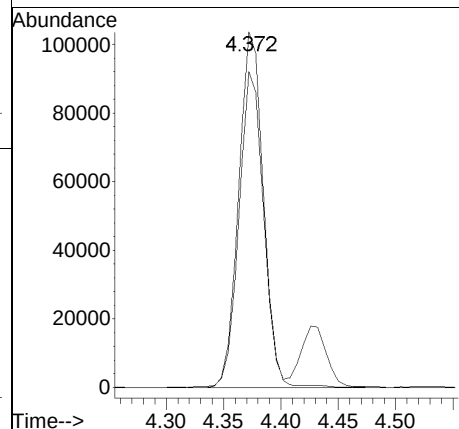
Tgt Ion	Ratio	Lower	Upper
62	100		
64	30.7	24.5	36.7

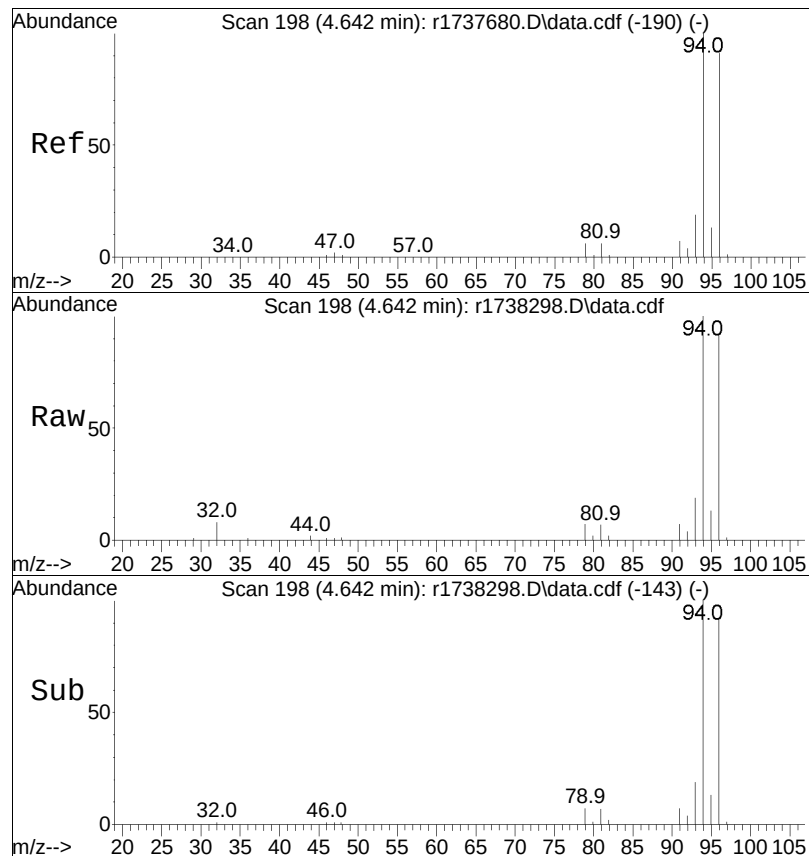




#10
 1,3-butadiene
 Concen: 9.99 ppbV
 RT: 4.372 min Scan# 153
 Delta R.T. 0.000 min
 Lab File: r1738298.D
 Acq: 1 Feb 2024 3:22 PM

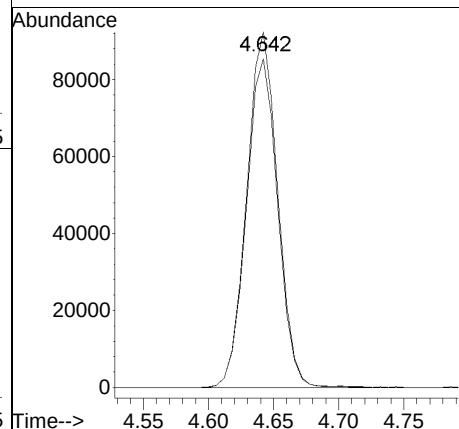
Tgt Ion	Ratio	Lower	Upper
54	100		
39	88.8	63.8	95.8

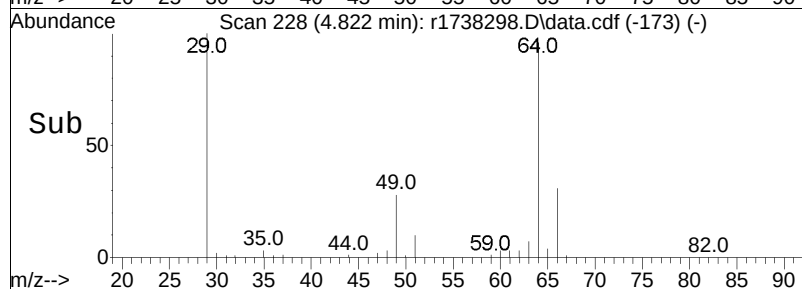
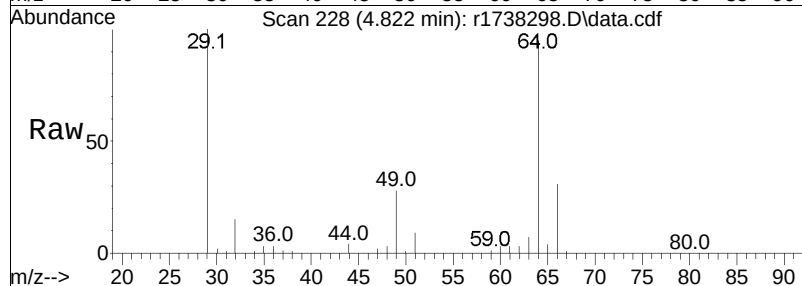
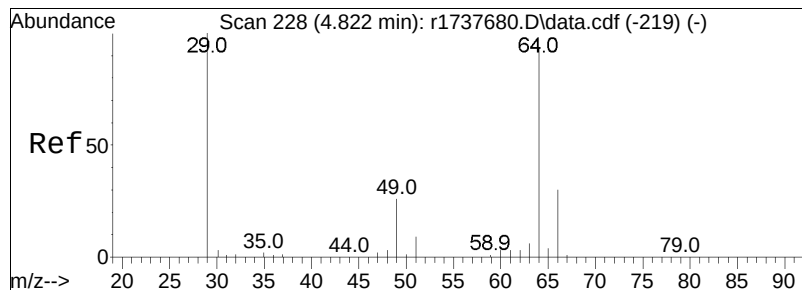




#13
bromomethane
Concen: 10.26 ppbV
RT: 4.642 min Scan# 198
Delta R.T. 0.000 min
Lab File: r1738298.D
Acq: 1 Feb 2024 3:22 PM

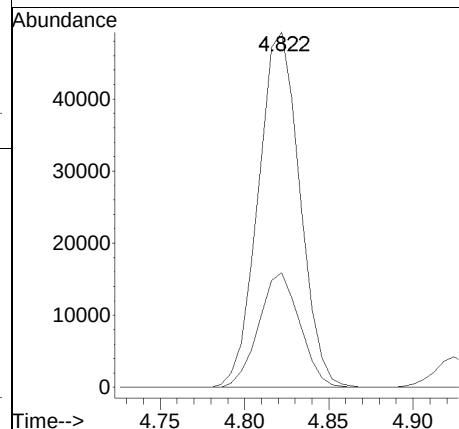
Tgt Ion	Ion	Ratio	Lower	Upper
94	100			
96	92.5	73.2	109.8	

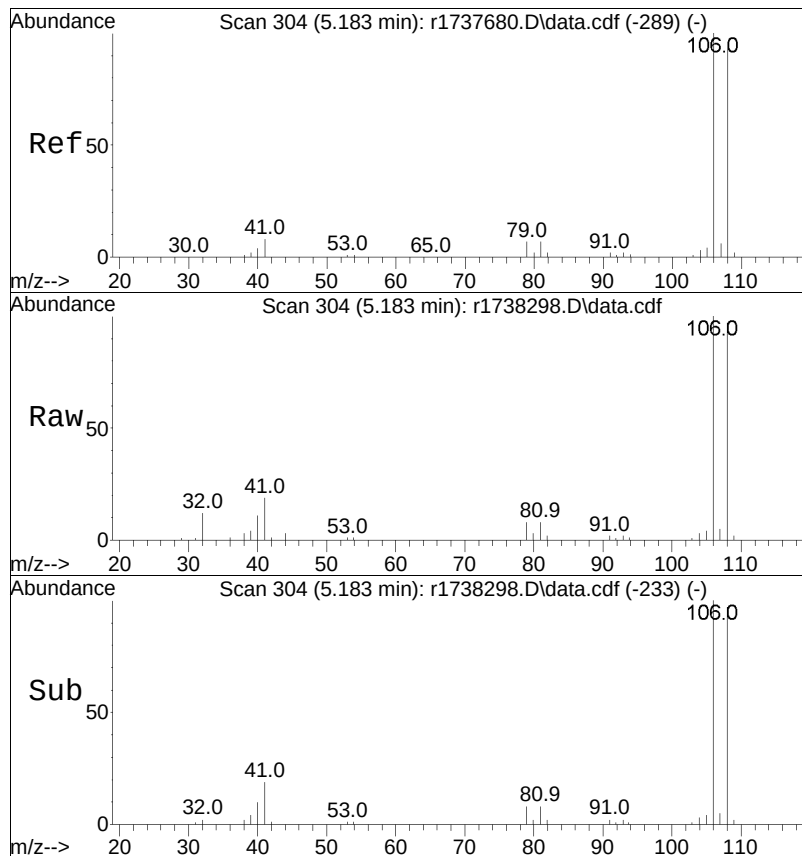




#14
chloroethane
Concen: 10.10 ppbV
RT: 4.822 min Scan# 228
Delta R.T. 0.000 min
Lab File: r1738298.D
Acq: 1 Feb 2024 3:22 PM

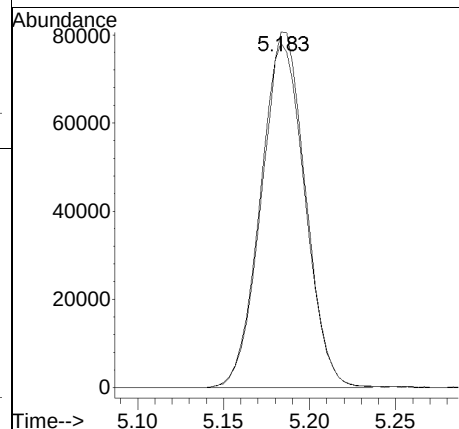
Tgt Ion	Ratio	Lower	Upper
64	100		
66	32.3	25.5	38.3

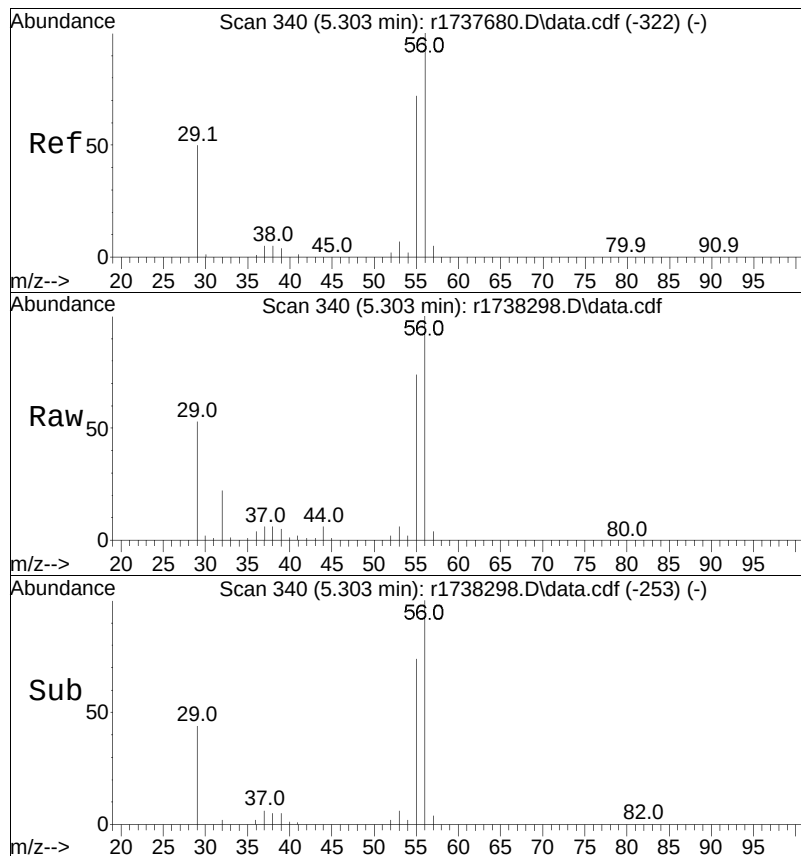




#17
 vinyl bromide
 Concen: 10.19 ppbV
 RT: 5.183 min Scan# 304
 Delta R.T. 0.000 min
 Lab File: r1738298.D
 Acq: 1 Feb 2024 3:22 PM

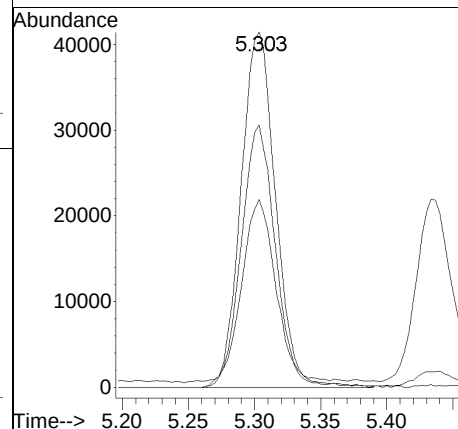
Tgt Ion	Ratio	Lower	Upper
106	100		
108	96.9	76.2	114.2

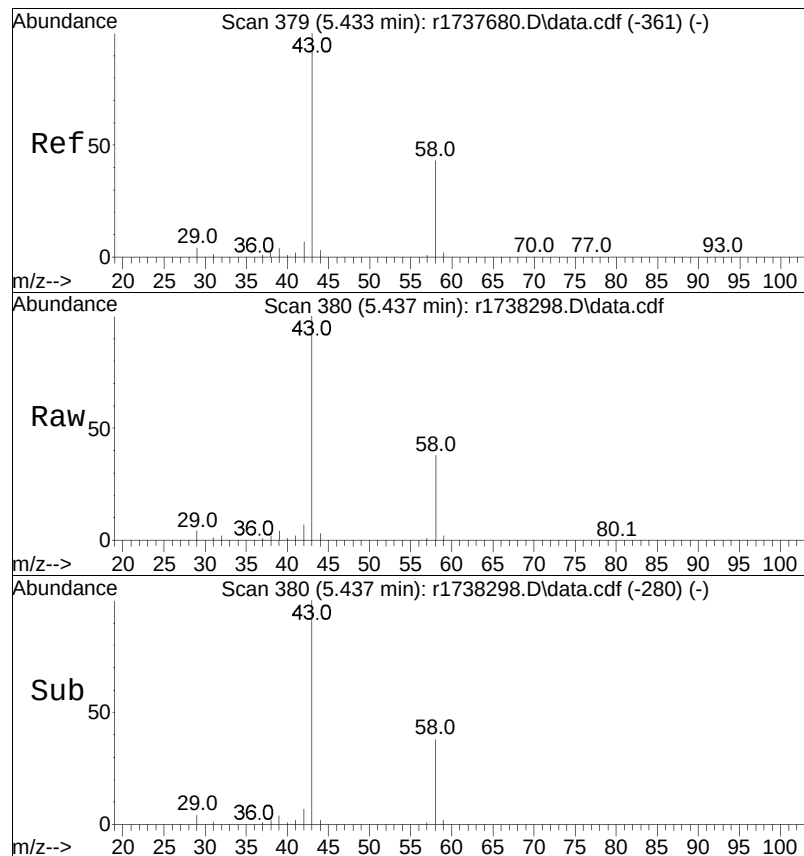




#18
acrolein
Concen: 8.77 ppbV
RT: 5.303 min Scan# 340
Delta R.T. 0.000 min
Lab File: r1738298.D
Acq: 1 Feb 2024 3:22 PM

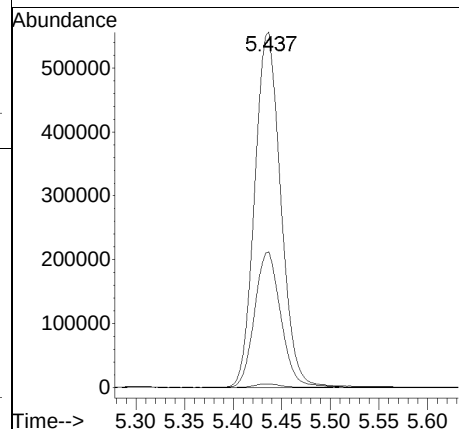
Tgt Ion	Ratio	Lower	Upper
56	100		
55	73.9	57.9	86.9
29	52.8	41.7	62.5

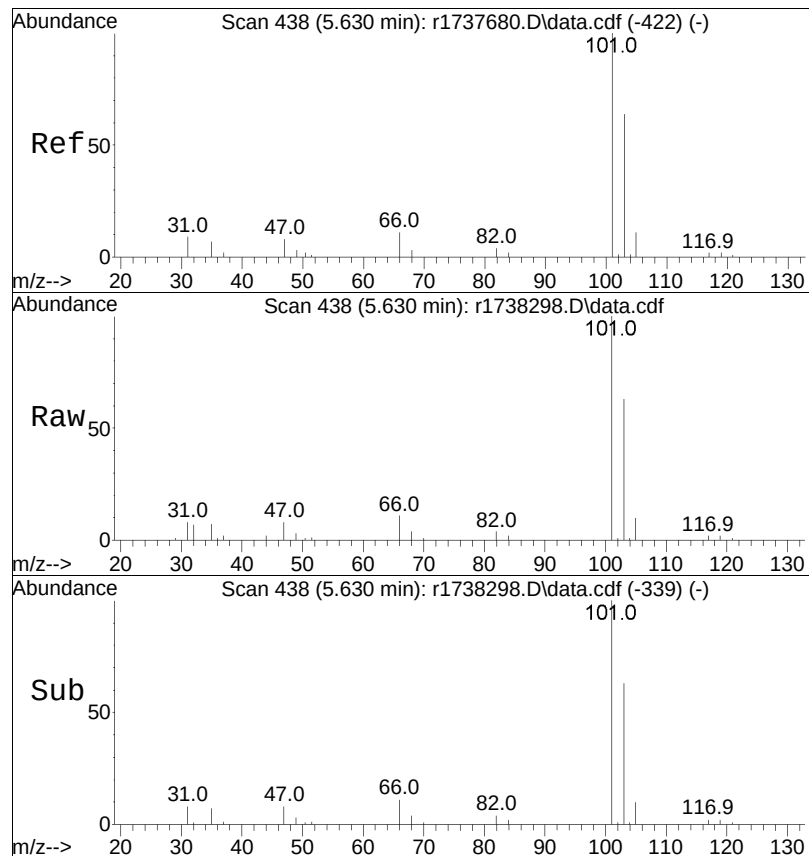




#19
acetone
Concen: 49.29 ppbV
RT: 5.437 min Scan# 380
Delta R.T. 0.003 min
Lab File: r1738298.D
Acq: 1 Feb 2024 3:22 PM

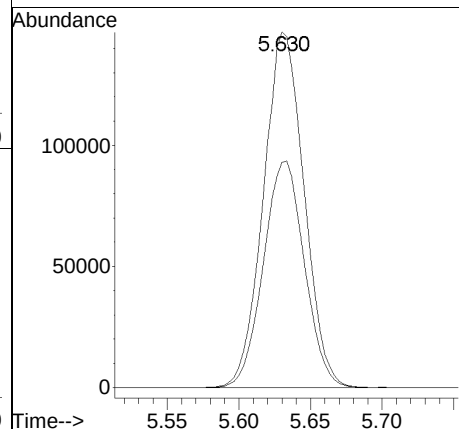
Tgt Ion	Ratio	Lower	Upper
43	100		
58	38.2	34.0	51.0
57	1.0	0.9	1.3

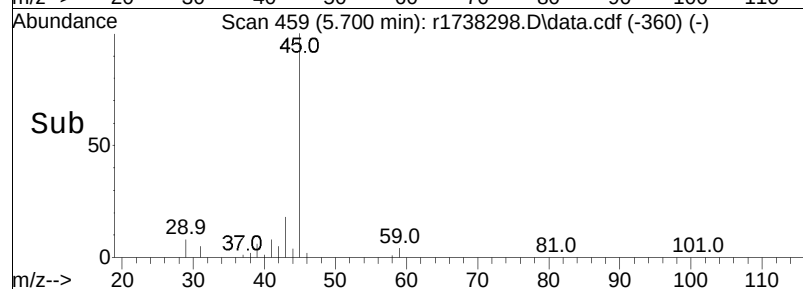
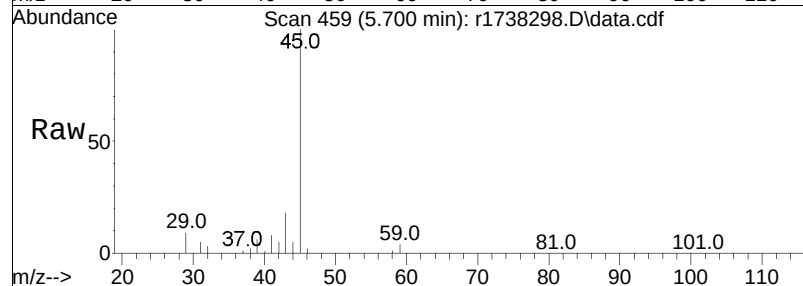
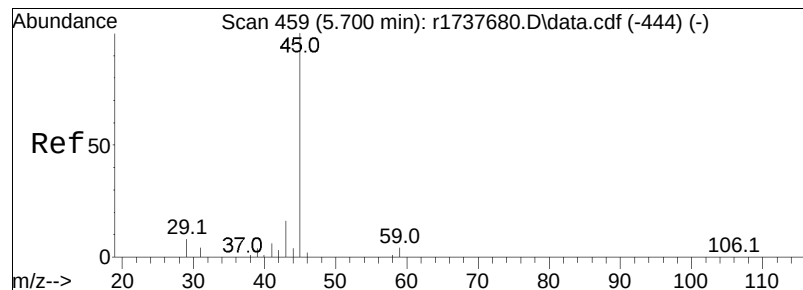




#21
 trichlorofluoromethane
 Concen: 11.14 ppbV
 RT: 5.630 min Scan# 438
 Delta R.T. 0.000 min
 Lab File: r1738298.D
 Acq: 1 Feb 2024 3:22 PM

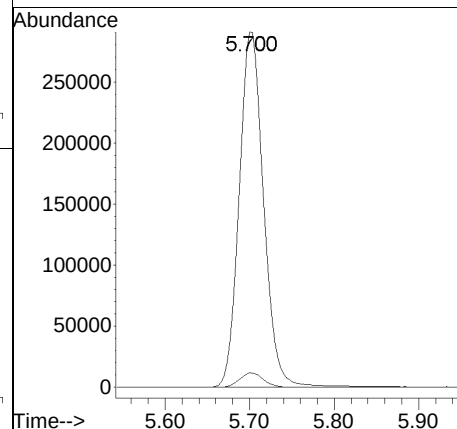
Tgt	Ion	Ratio	Lower	Upper
101	100			
103	63.3	51.2	76.8	

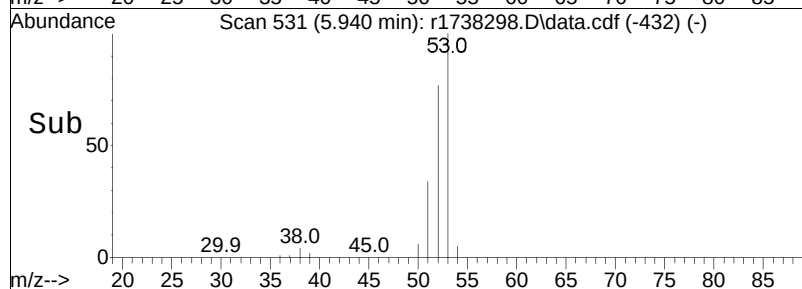
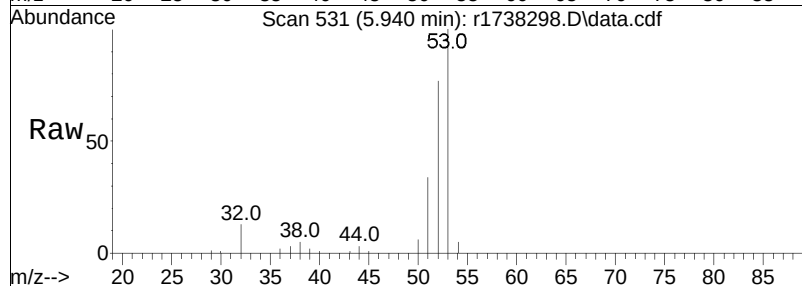
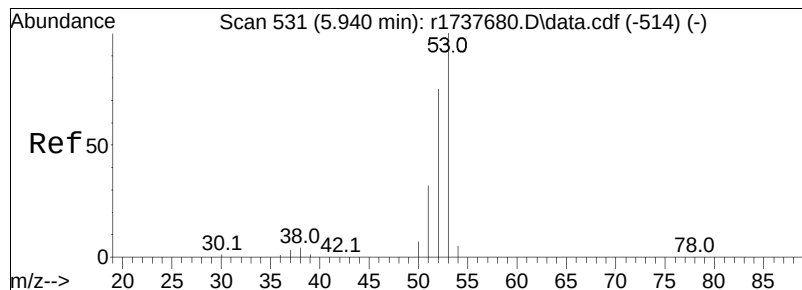




#22
isopropyl alcohol
Concen: 21.35 ppbV
RT: 5.700 min Scan# 459
Delta R.T. 0.000 min
Lab File: r1738298.D
Acq: 1 Feb 2024 3:22 PM

Tgt Ion	Ratio	Lower	Upper
45	100		
59	4.2	3.4	5.2





#23

acrylonitrile

Concen: 9.36 ppbV

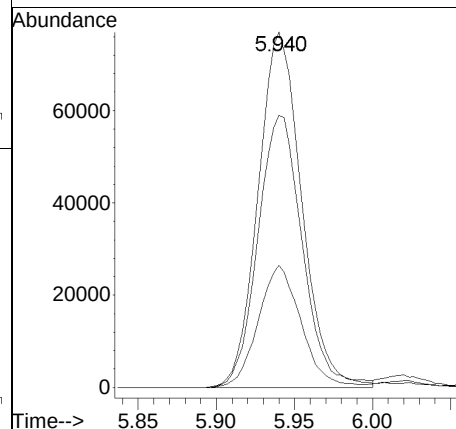
RT: 5.940 min Scan# 531

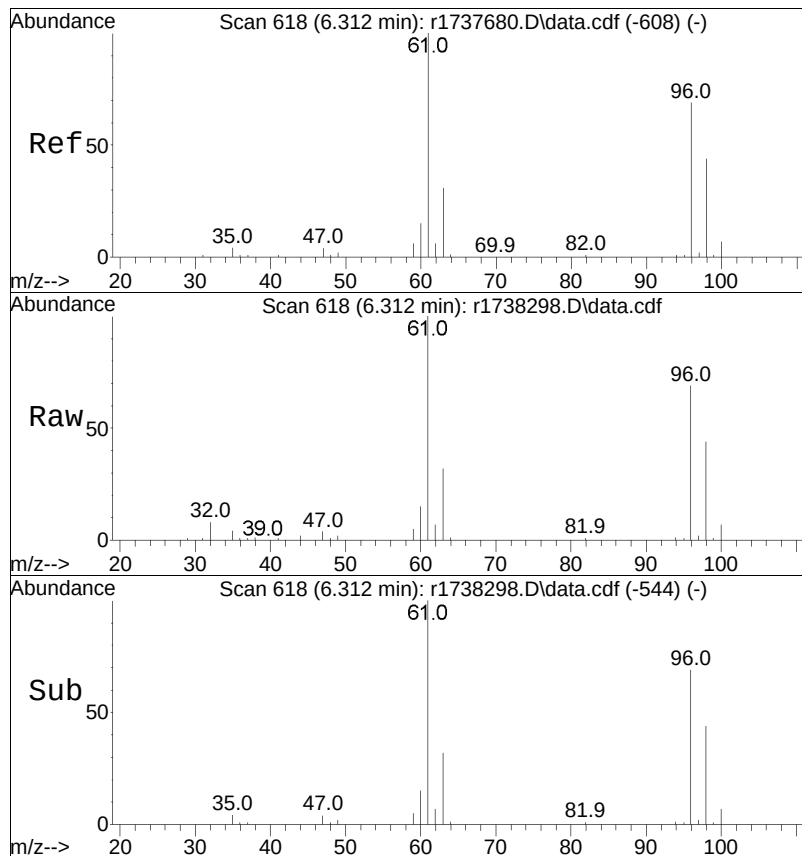
Delta R.T. 0.000 min

Lab File: r1738298.D

Acq: 1 Feb 2024 3:22 PM

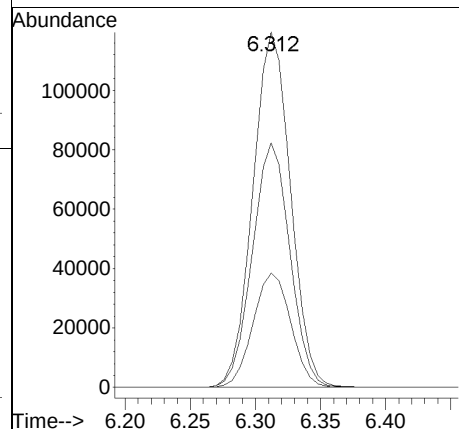
Tgt	Ion: 53	Resp:	149690
Ion	Ratio	Lower	Upper
53	100		
52	76.6	60.3	90.5
51	34.4	25.8	38.8

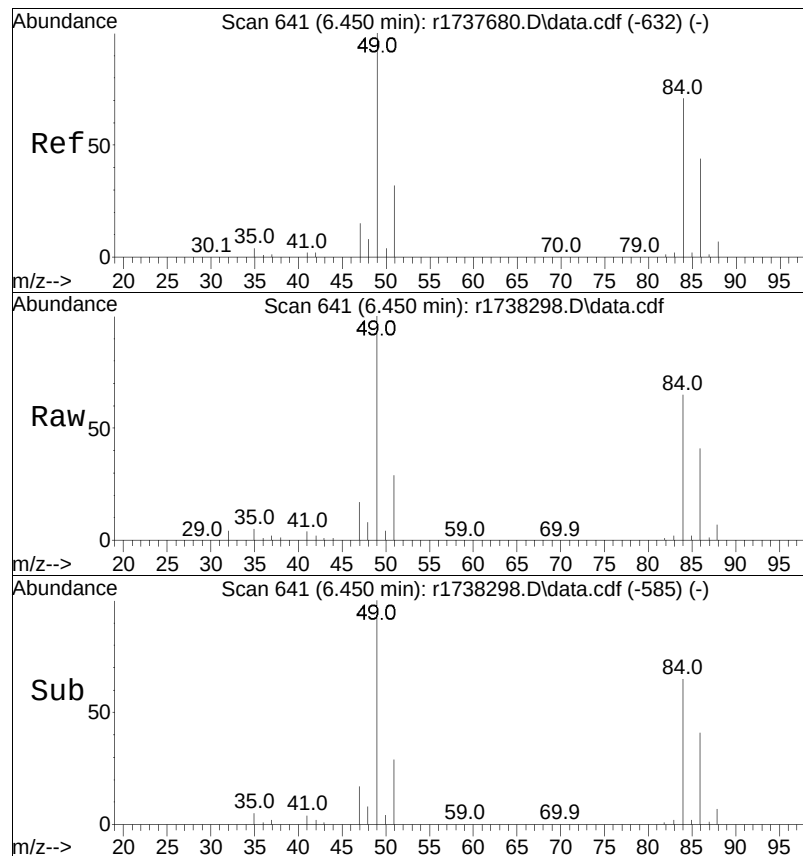




#26
 1,1-dichloroethene
 Concen: 10.29 ppbV
 RT: 6.312 min Scan# 618
 Delta R.T. 0.000 min
 Lab File: r1738298.D
 Acq: 1 Feb 2024 3:22 PM

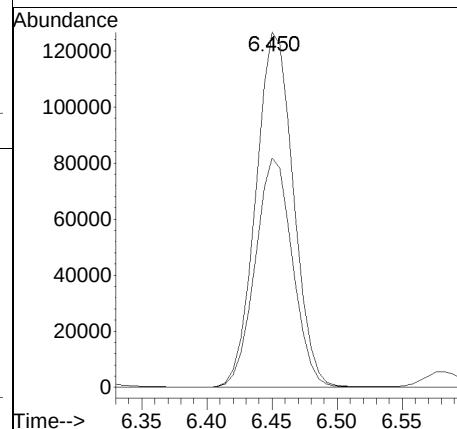
Tgt Ion:	61	Resp:	241150
Ion Ratio	Lower	Upper	
61	100		
96	68.8	55.3	82.9
63	32.2	24.9	37.3

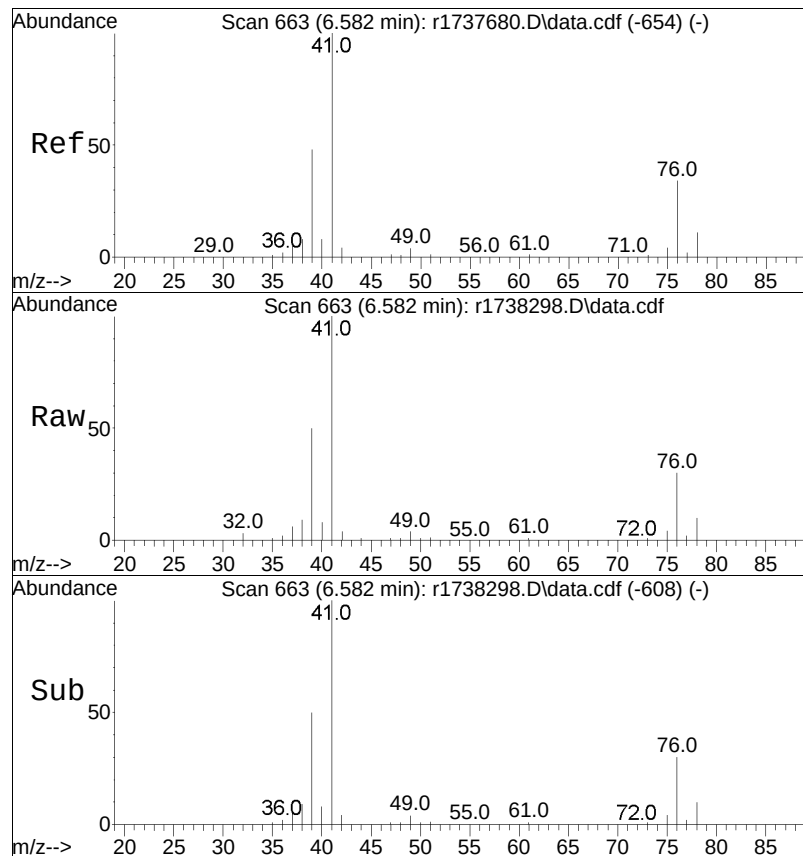




#28
 methylene chloride
 Concen: 10.93 ppbV
 RT: 6.450 min Scan# 641
 Delta R.T. 0.000 min
 Lab File: r1738298.D
 Acq: 1 Feb 2024 3:22 PM

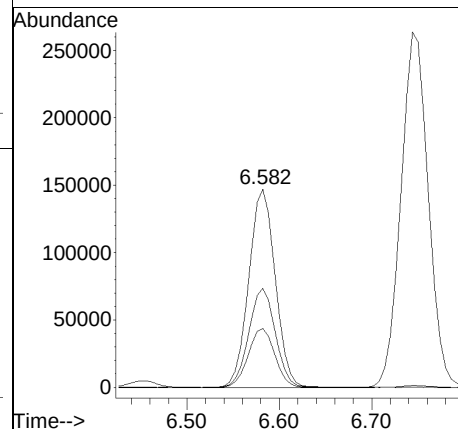
Tgt Ion:	49	84	Ratio	Lower	Upper
Resp:	253839				
Ion Ratio	100	64.6			
			56.7		85.1

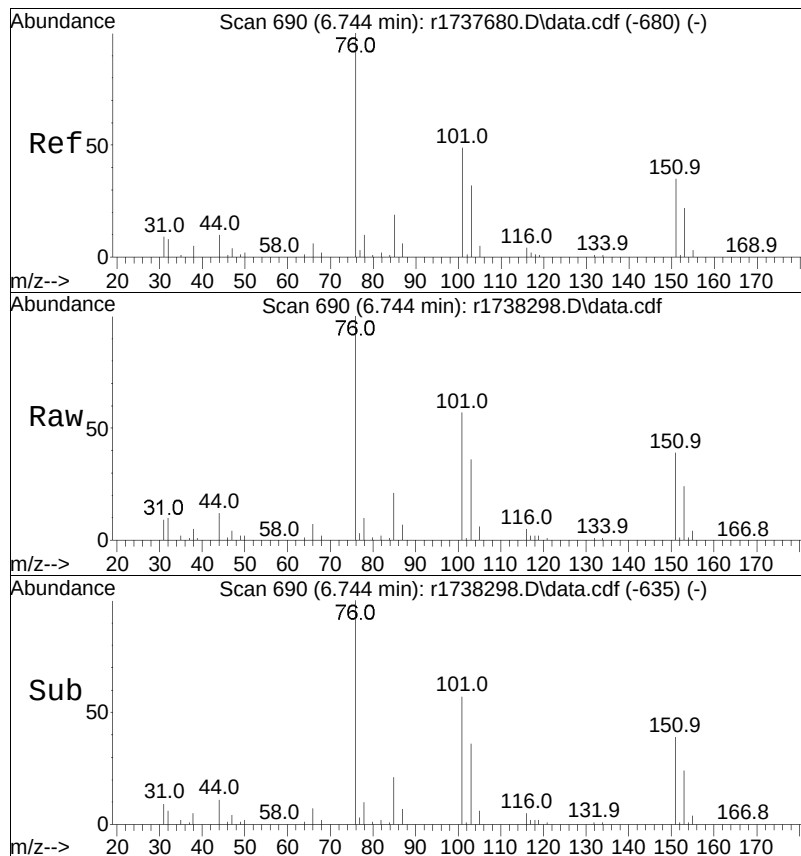




#29
 3-chloropropene
 Concen: 11.31 ppbV
 RT: 6.582 min Scan# 663
 Delta R.T. 0.000 min
 Lab File: r1738298.D
 Acq: 1 Feb 2024 3:22 PM

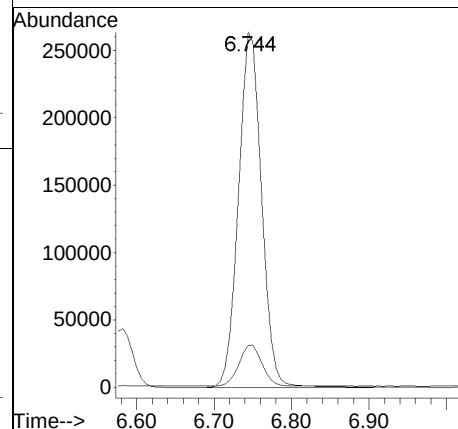
Tgt Ion	Ratio	Resp	Lower	Upper
41	100	293199		
39	50.1		38.5	57.7
76	29.7		26.8	40.2

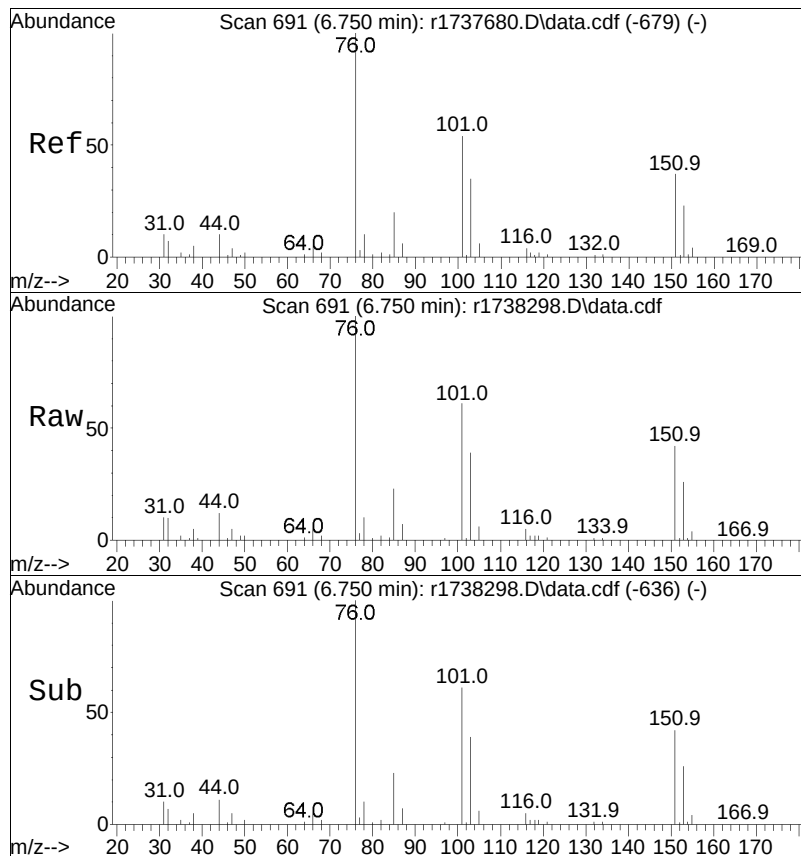




#30
carbon disulfide
Concen: 9.44 ppbV
RT: 6.744 min Scan# 690
Delta R.T. 0.000 min
Lab File: r1738298.D
Acq: 1 Feb 2024 3:22 PM

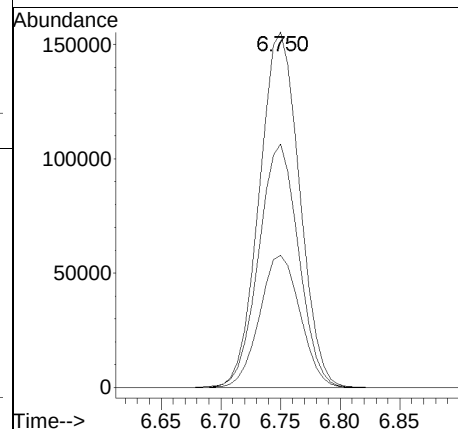
Tgt	Ion	Ratio	Lower	Upper
76	100			
44	11.8	8.5	12.7	

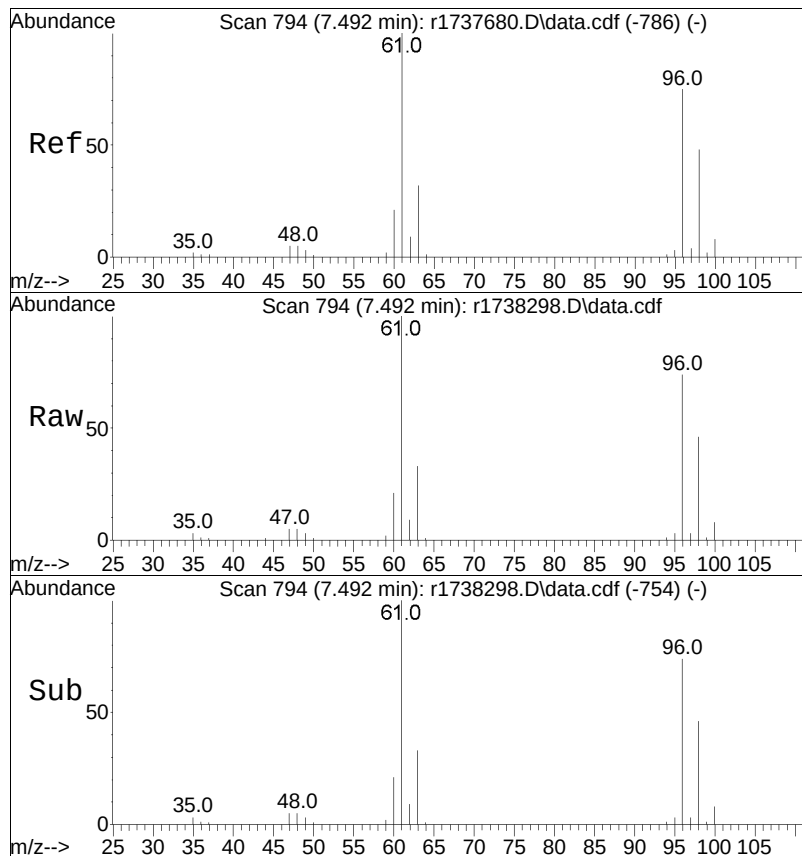




#31
 Freon 113
 Concen: 10.82 ppbV
 RT: 6.750 min Scan# 691
 Delta R.T. 0.000 min
 Lab File: r1738298.D
 Acq: 1 Feb 2024 3:22 PM

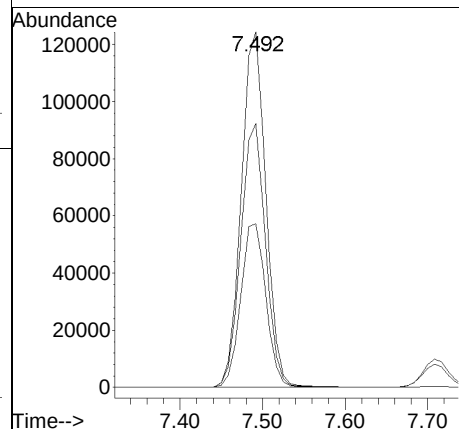
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	364117		
85	37.2		30.5	45.7
151	68.5		56.0	84.0

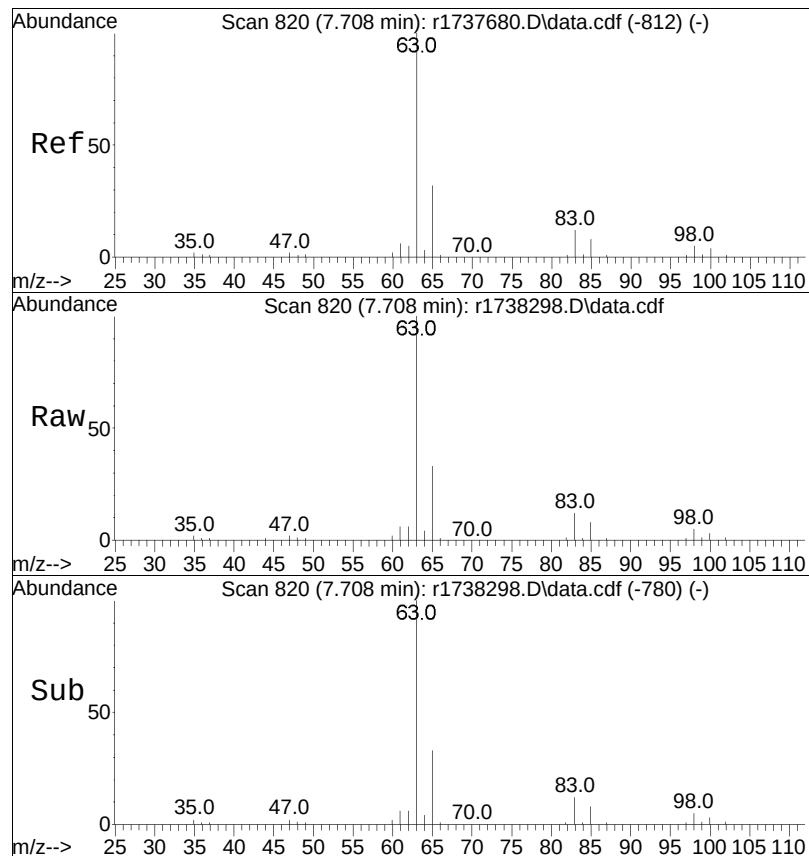




#32
 trans-1,2-dichloroethene
 Concen: 10.58 ppbV
 RT: 7.492 min Scan# 794
 Delta R.T. 0.000 min
 Lab File: r1738298.D
 Acq: 1 Feb 2024 3:22 PM

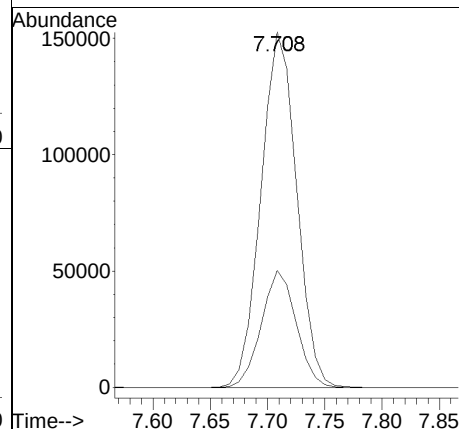
Tgt Ion:	61	Resp:	258062
Ion Ratio	Lower	Upper	
61	100		
96	74.3	59.9	89.9
98	46.1	38.2	57.4

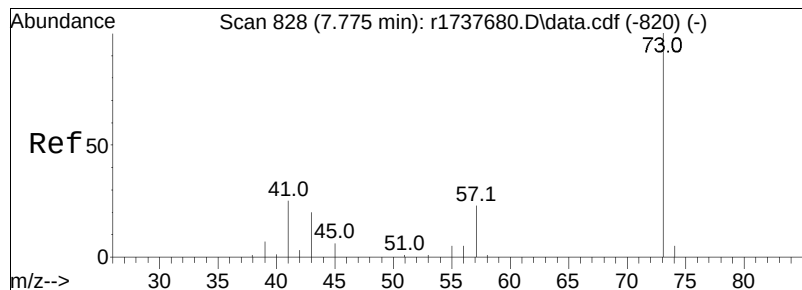




#33
 1,1-dichloroethane
 Concen: 10.73 ppbV
 RT: 7.708 min Scan# 820
 Delta R.T. 0.000 min
 Lab File: r1738298.D
 Acq: 1 Feb 2024 3:22 PM

Tgt Ion:	63	Resp:	330498
Ion Ratio	Lower	Upper	
63	100		
65	32.9	25.6	38.4





#34

MTBE

Concen: 9.41 ppbV

RT: 7.775 min Scan# 828

Delta R.T. 0.000 min

Lab File: r1738298.D

Acq: 1 Feb 2024 3:22 PM

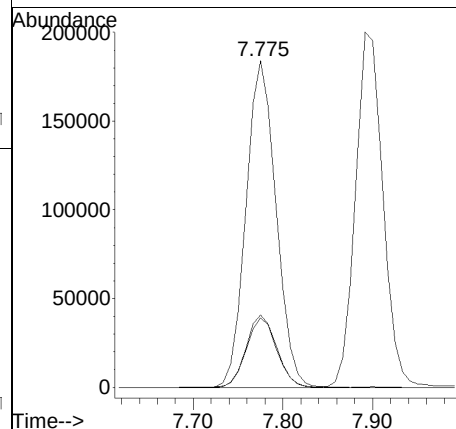
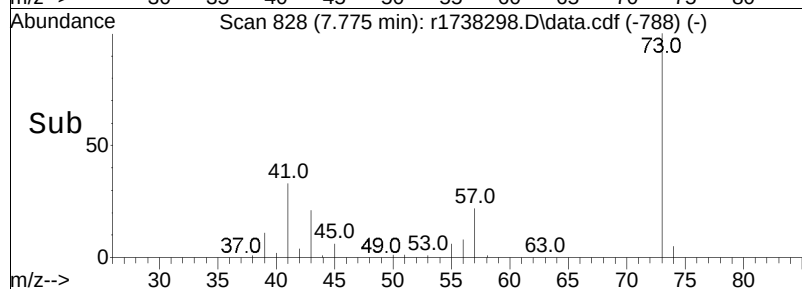
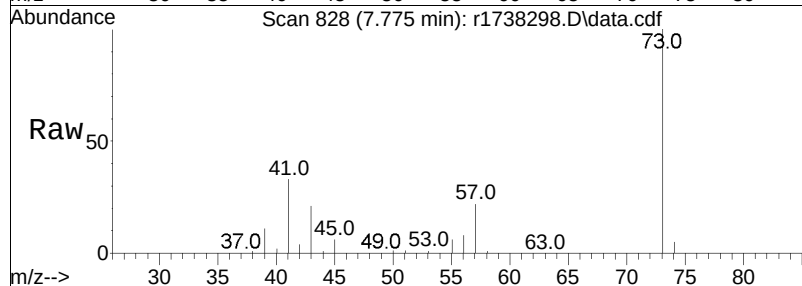
Tgt Ion: 73 Resp: 427989

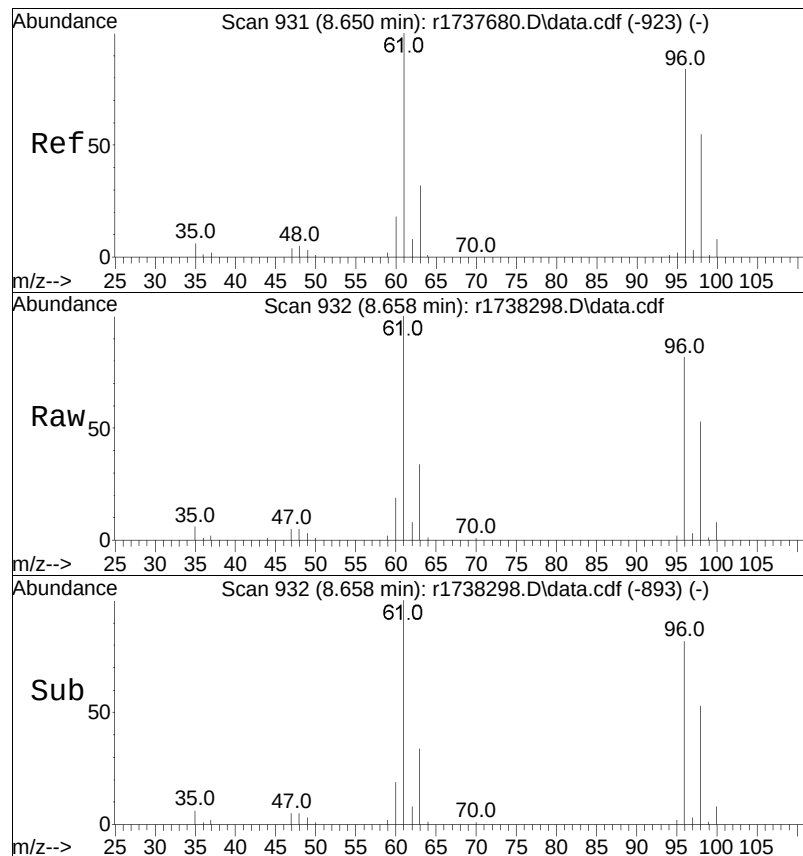
Ion Ratio Lower Upper

73 100

57 22.2 18.2 27.4

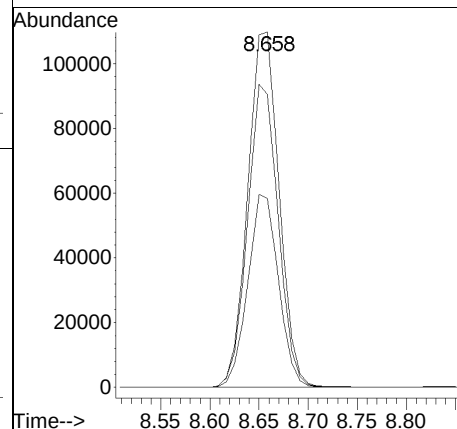
43 21.3 16.2 24.2

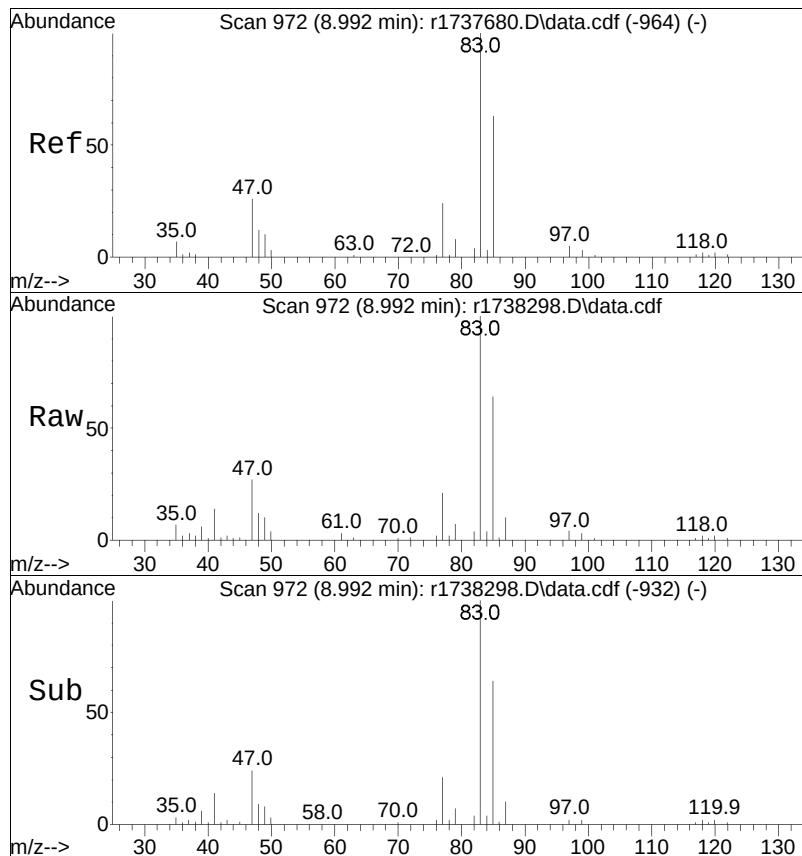




#37
 cis-1,2-dichloroethene
 Concen: 10.66 ppbV
 RT: 8.658 min Scan# 932
 Delta R.T. 0.008 min
 Lab File: r1738298.D
 Acq: 1 Feb 2024 3:22 PM

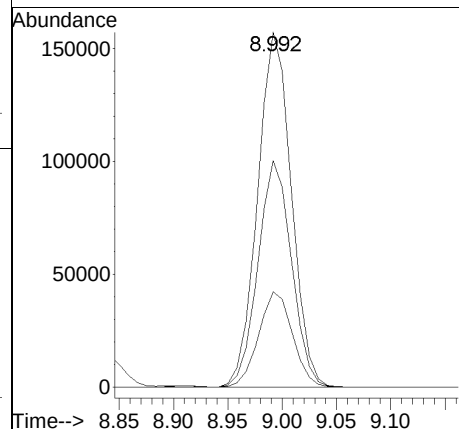
Tgt Ion:	61	Resp:	244548
Ion Ratio	Lower	Upper	
61	100		
96	82.5	67.4	101.0
98	53.2	43.8	65.6

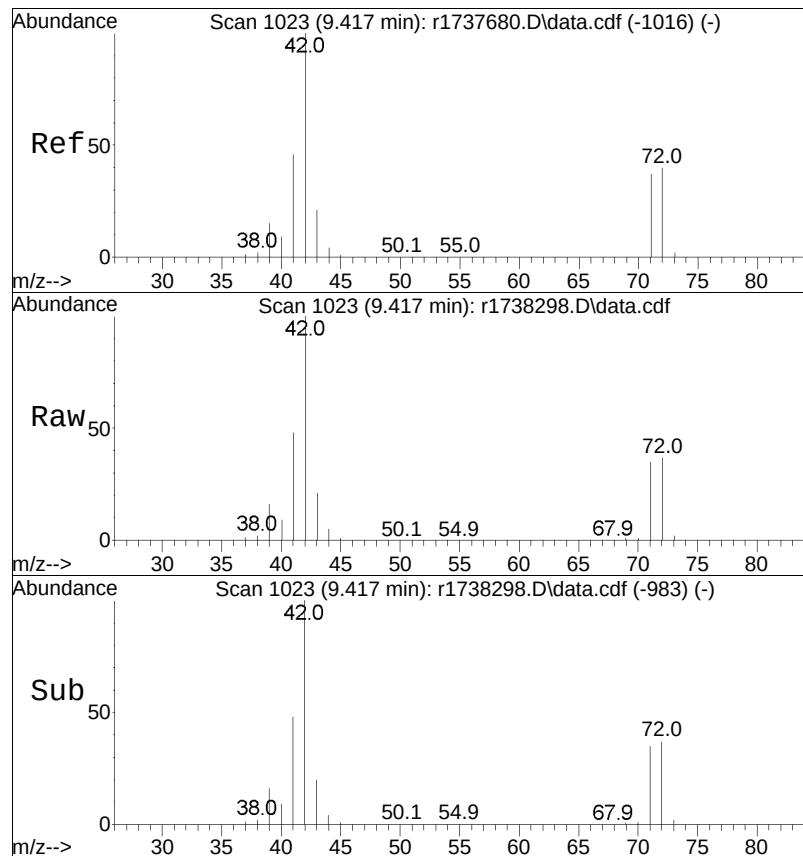




#39
chloroform
Concen: 10.45 ppbV
RT: 8.992 min Scan# 972
Delta R.T. 0.000 min
Lab File: r1738298.D
Acq: 1 Feb 2024 3:22 PM

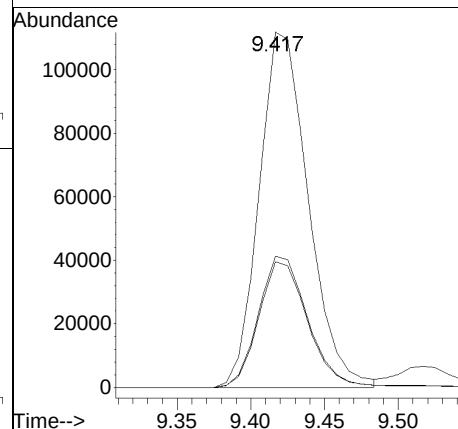
Tgt	Ion	Ratio	Lower	Upper
83	100			
85	63.9	50.8	76.2	
47	26.9	21.0	31.6	

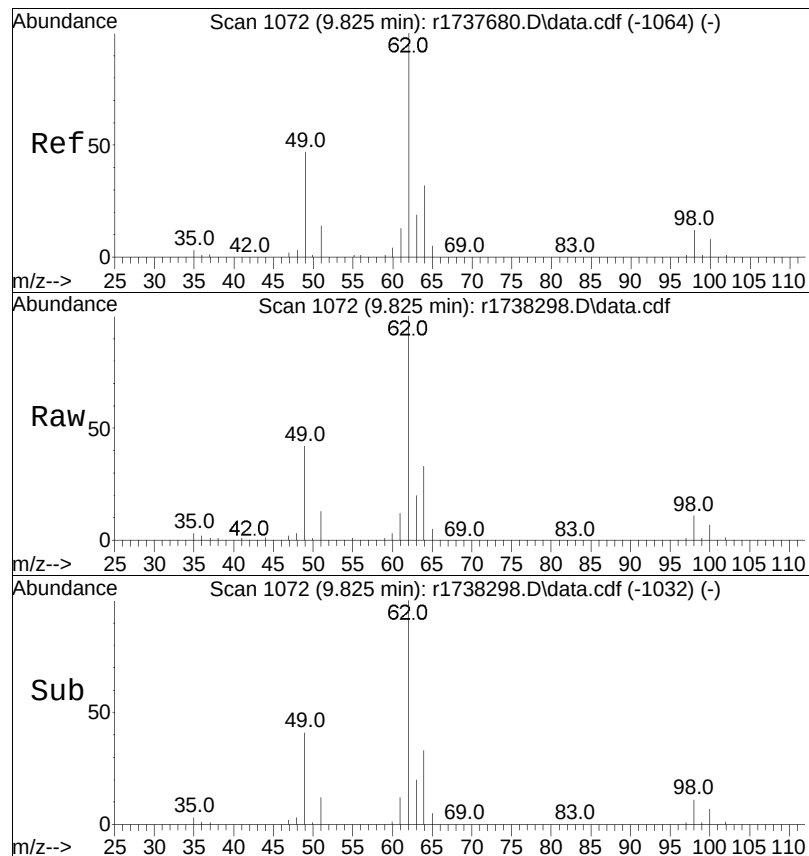




#40
Tetrahydrofuran
Concen: 10.80 ppbV
RT: 9.417 min Scan# 1023
Delta R.T. 0.000 min
Lab File: r1738298.D
Acq: 1 Feb 2024 3:22 PM

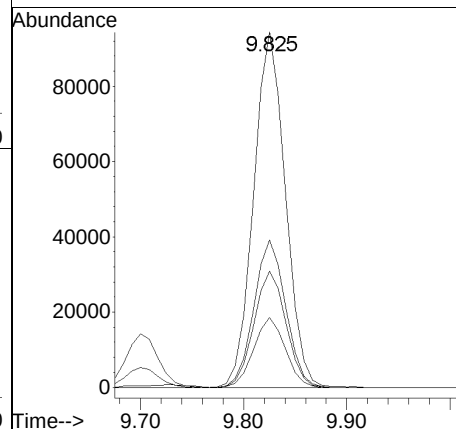
Tgt Ion	Ratio	Lower	Upper
42	100		
71	35.4	30.0	45.0
72	36.9	31.9	47.9

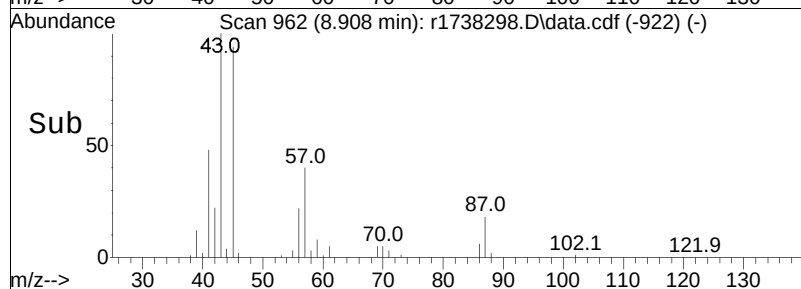
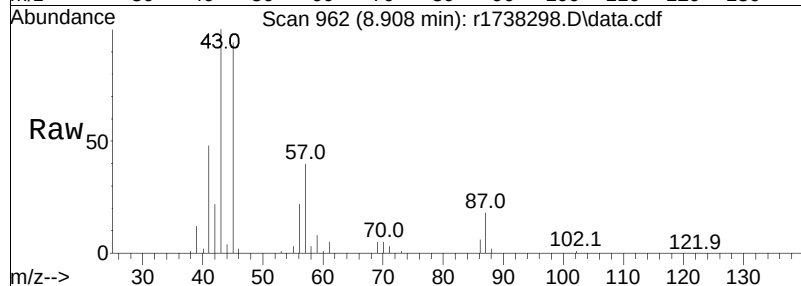
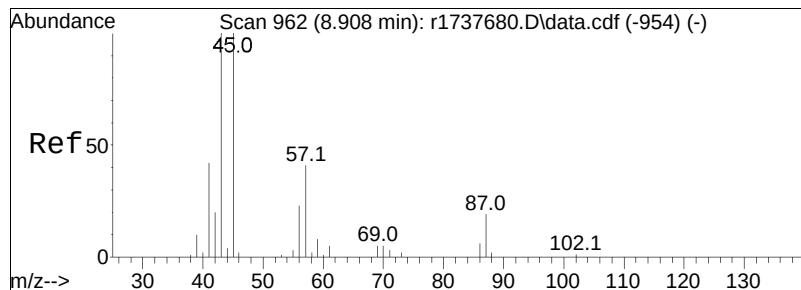




#42
 1,2-dichloroethane
 Concen: 10.87 ppbV
 RT: 9.825 min Scan# 1072
 Delta R.T. 0.000 min
 Lab File: r1738298.D
 Acq: 1 Feb 2024 3:22 PM

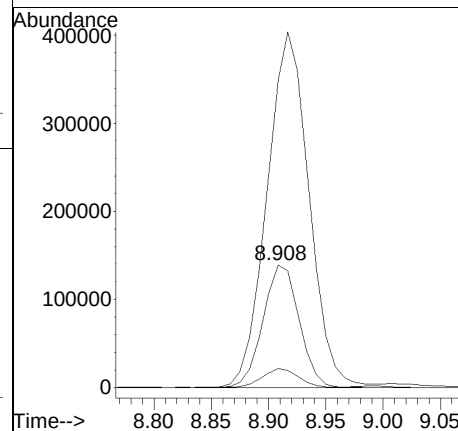
Tgt	Ion: 62	Resp:	201692
Ion	Ratio	Lower	Upper
62	100		
64	32.7	25.5	38.3
49	41.5	37.8	56.8
63	19.7	15.5	23.3

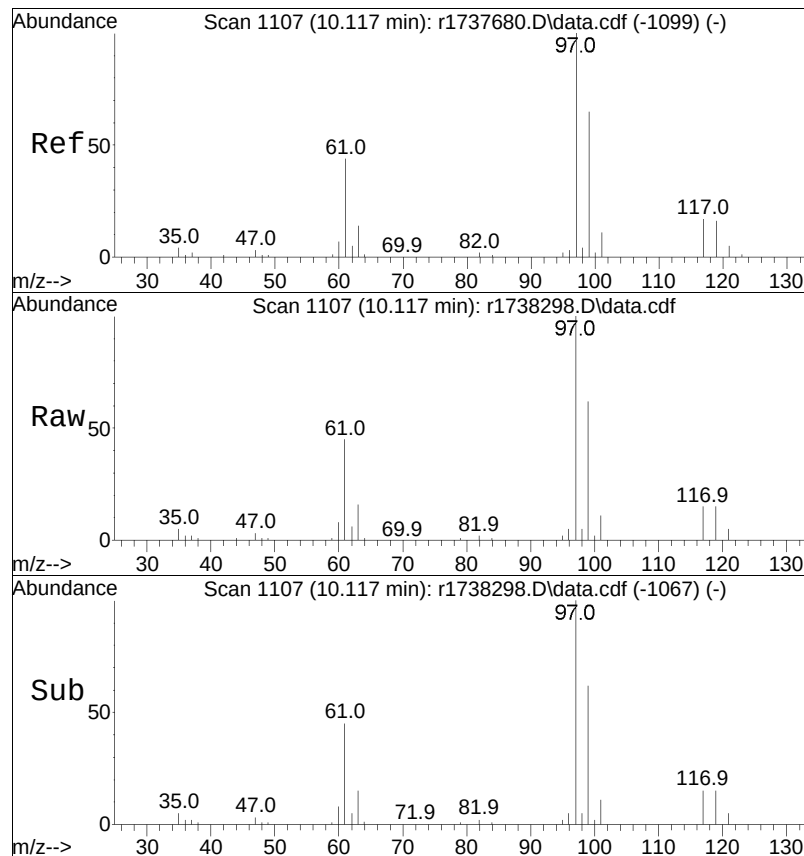




#44
hexane
Concen: 10.04 ppbV
RT: 8.908 min Scan# 962
Delta R.T. 0.000 min
Lab File: r1738298.D
Acq: 1 Feb 2024 3:22 PM

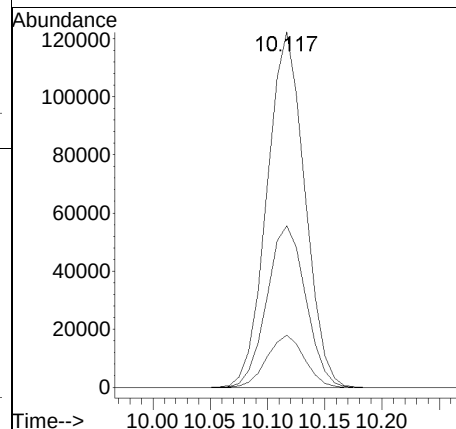
Tgt	Ion	Resp	Lower	Upper
57	100			
43	251.3	197.0	295.6	
86	15.4	12.6	19.0	

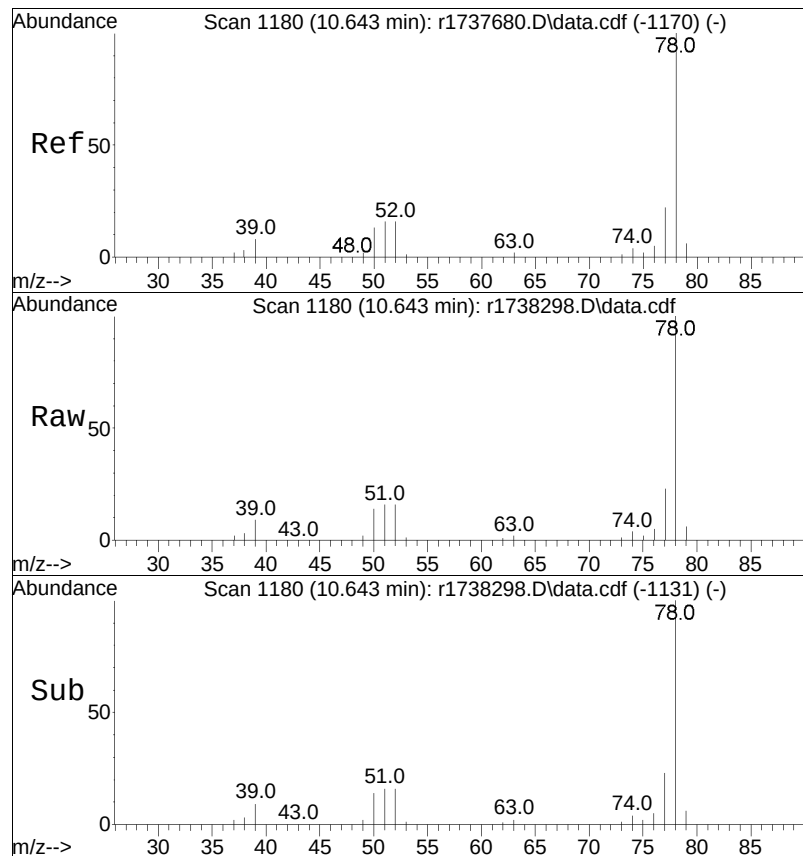




#48
 1,1,1-trichloroethane
 Concen: 10.63 ppbV
 RT: 10.117 min Scan# 1107
 Delta R.T. 0.000 min
 Lab File: r1738298.D
 Acq: 1 Feb 2024 3:22 PM

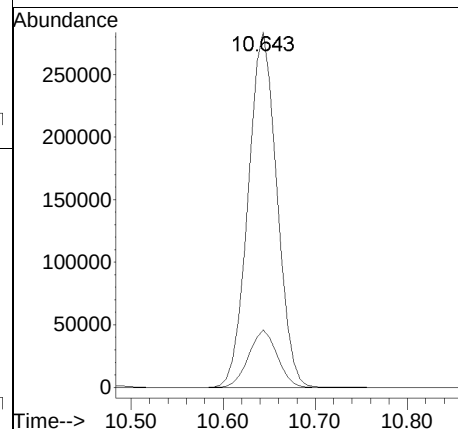
Tgt Ion	Ratio	Resp	Lower	Upper
97	100	280162		
61	45.5		35.4	53.2
119	14.7		12.6	18.8

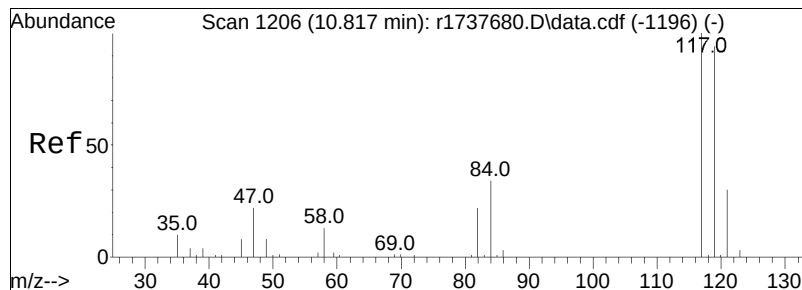




#50
benzene
Concen: 9.07 ppbV
RT: 10.643 min Scan# 1180
Delta R.T. 0.000 min
Lab File: r1738298.D
Acq: 1 Feb 2024 3:22 PM

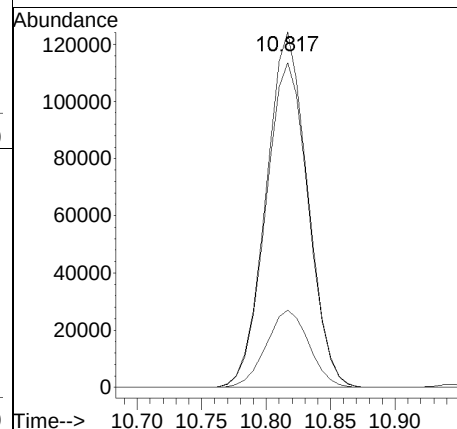
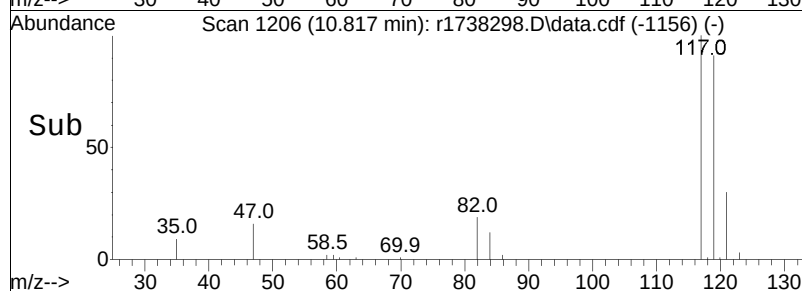
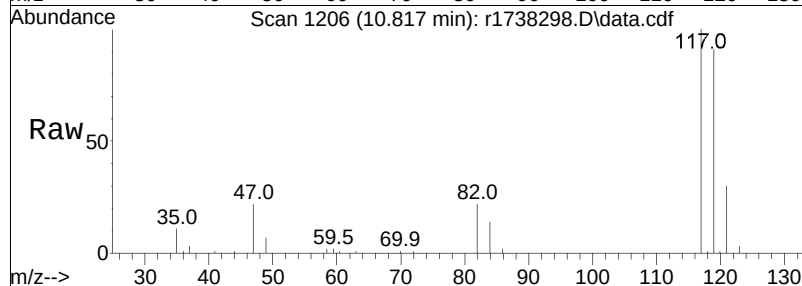
Tgt	Ion	Ratio	Lower	Upper
78	100			
52	16.2	12.7	19.1	

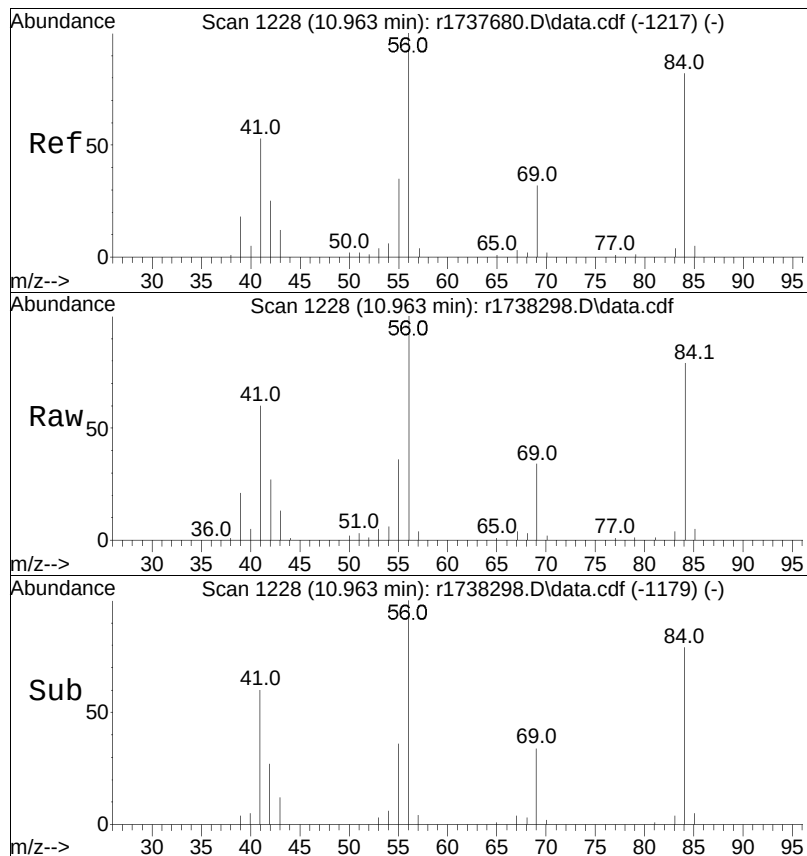




#52
 carbon tetrachloride
 Concen: 11.21 ppbV
 RT: 10.817 min Scan# 1206
 Delta R.T. 0.000 min
 Lab File: r1738298.D
 Acq: 1 Feb 2024 3:22 PM

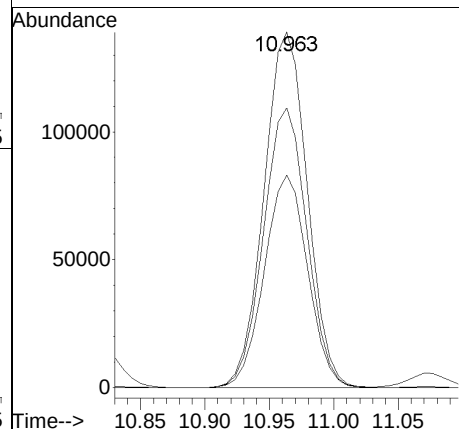
Tgt Ion	Ratio	Lower	Upper
117	100		
119	91.4	75.2	112.8
82	21.8	18.0	27.0

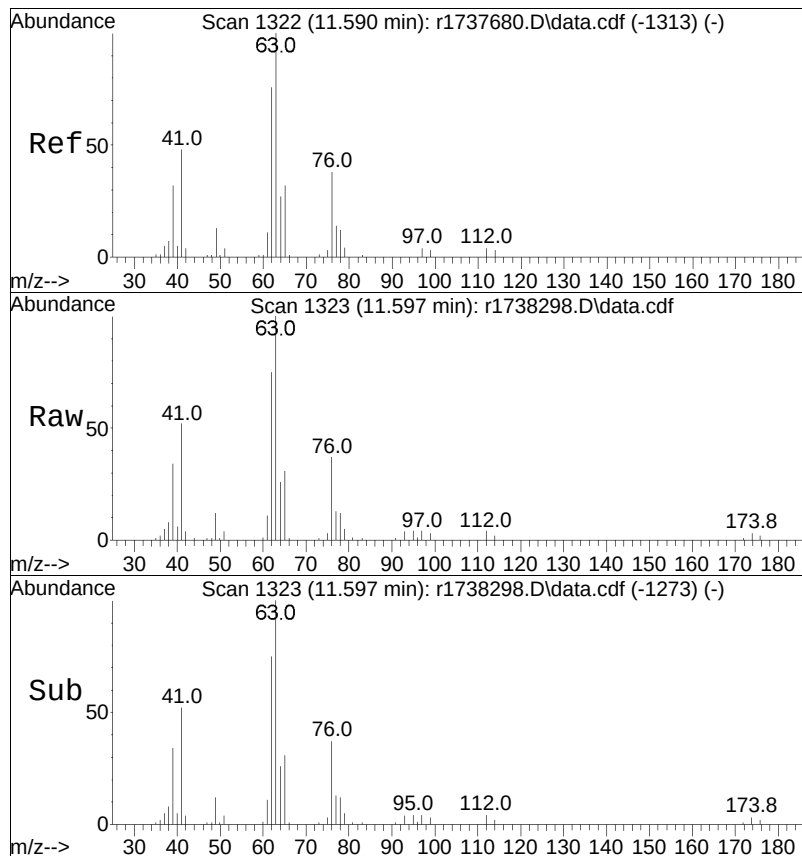




#53
cyclohexane
Concen: 10.03 ppbV
RT: 10.963 min Scan# 1228
Delta R.T. 0.000 min
Lab File: r1738298.D
Acq: 1 Feb 2024 3:22 PM

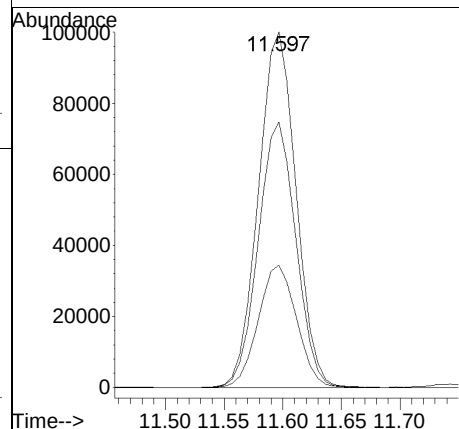
Tgt	Ion	Ratio	Lower	Upper
56	100			
84	78.7	65.7	98.5	
41	59.8	42.5	63.7	

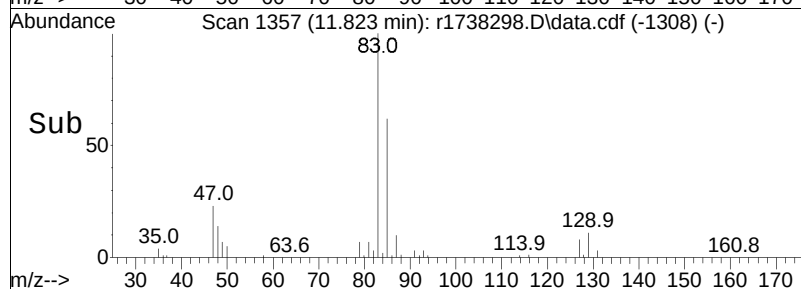
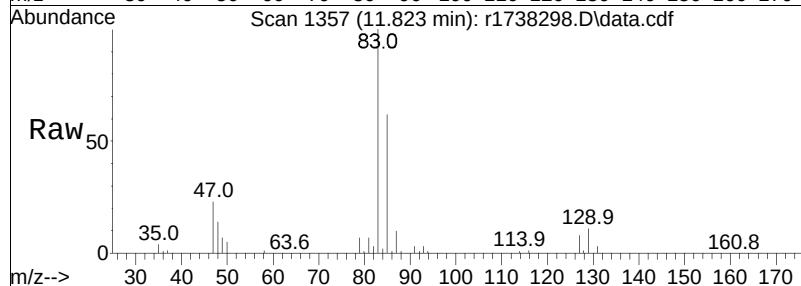
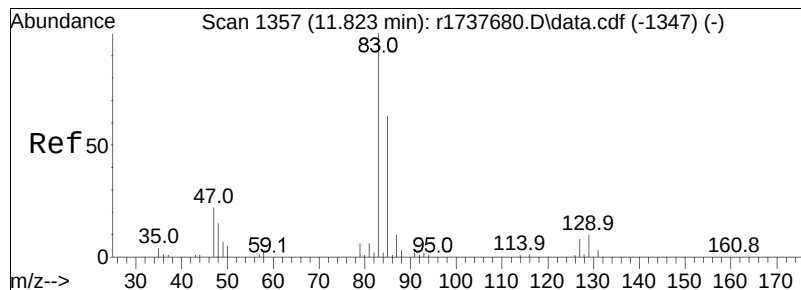




#56
 1,2-dichloropropane
 Concen: 10.70 ppbV
 RT: 11.597 min Scan# 1323
 Delta R.T. 0.007 min
 Lab File: r1738298.D
 Acq: 1 Feb 2024 3:22 PM

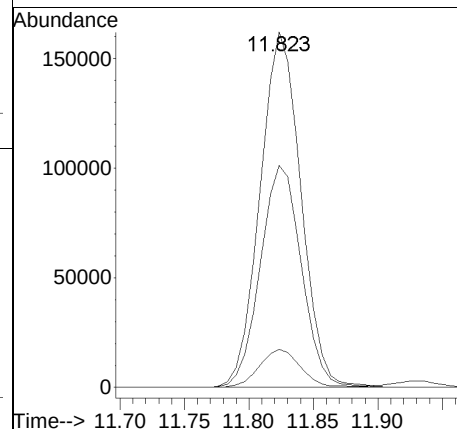
Tgt Ion:	63	Resp:	223049
Ion Ratio	Lower	Upper	
63	100		
62	74.7	60.5	90.7
39	34.4	25.8	38.8

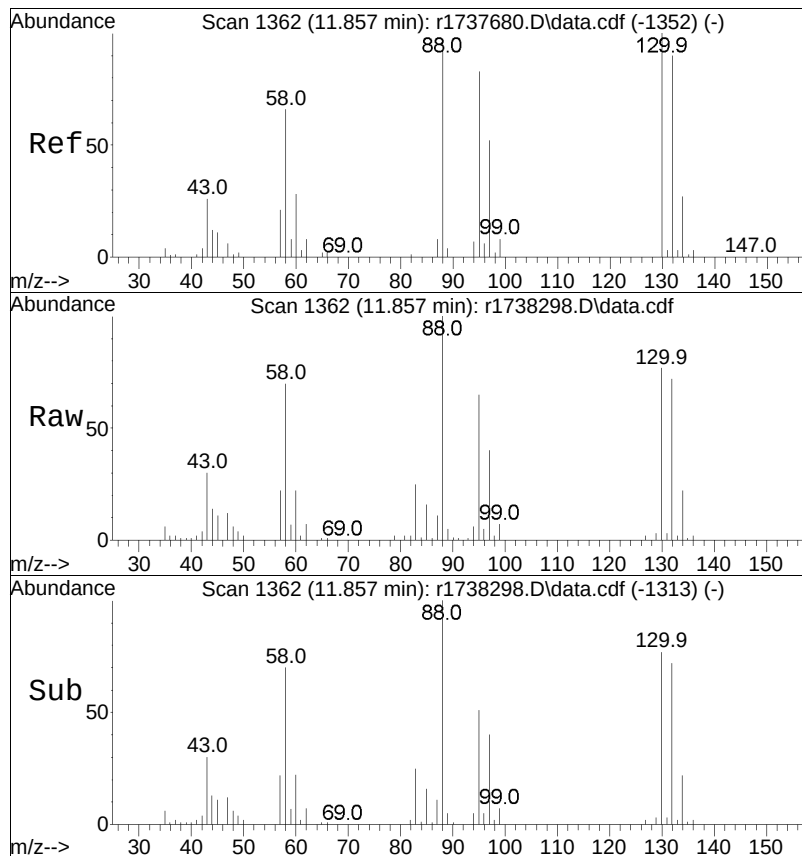




#57
bromodichloromethane
Concen: 11.22 ppbV
RT: 11.823 min Scan# 1357
Delta R.T. 0.000 min
Lab File: r1738298.D
Acq: 1 Feb 2024 3:22 PM

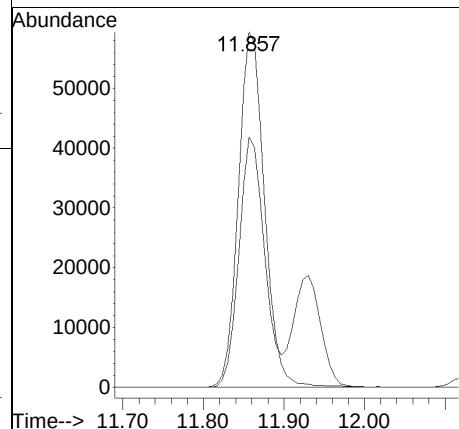
Tgt	Ion	Resp	Lower	Upper
83	100			
85	62.4	50.3	75.5	
129	10.7	8.0	12.0	

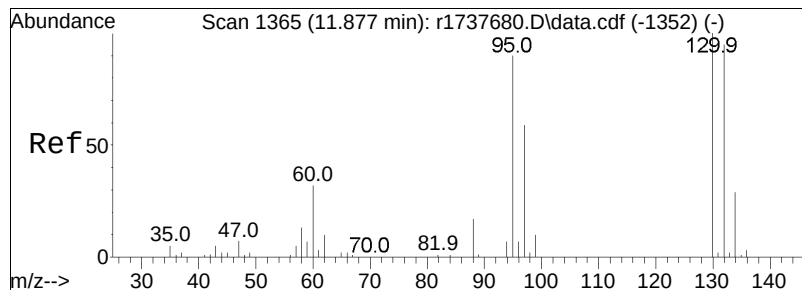




#58
 1,4-dioxane
 Concen: 10.26 ppbV
 RT: 11.857 min Scan# 1362
 Delta R.T. 0.000 min
 Lab File: r1738298.D
 Acq: 1 Feb 2024 3:22 PM

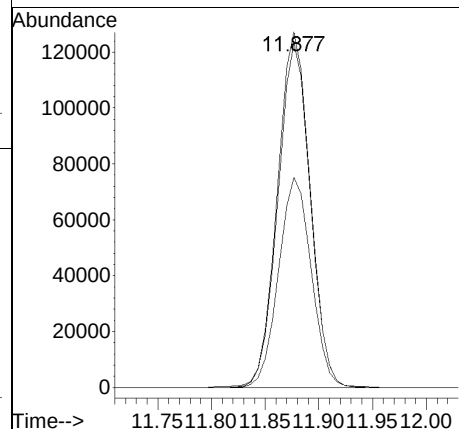
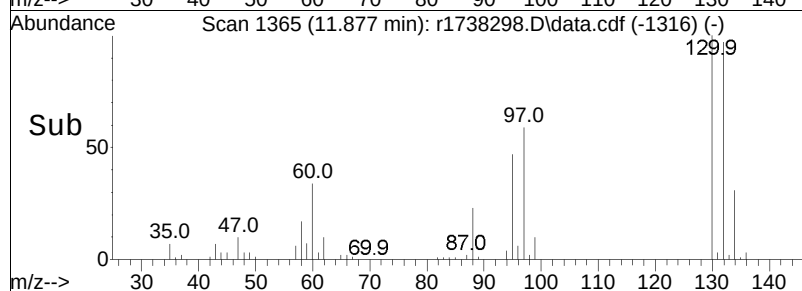
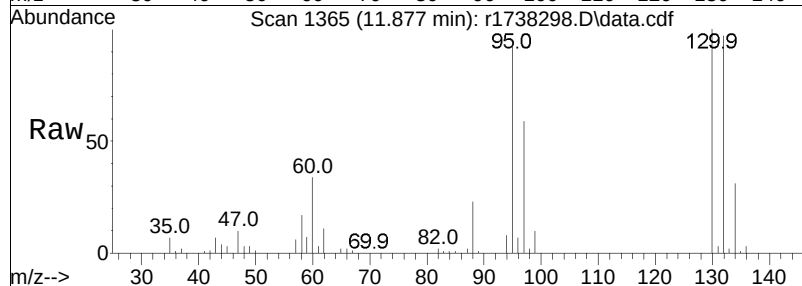
Tgt Ion:	88	Resp:	133905
Ion Ratio	100	Lower	Upper
58	70.5	55.0	82.6

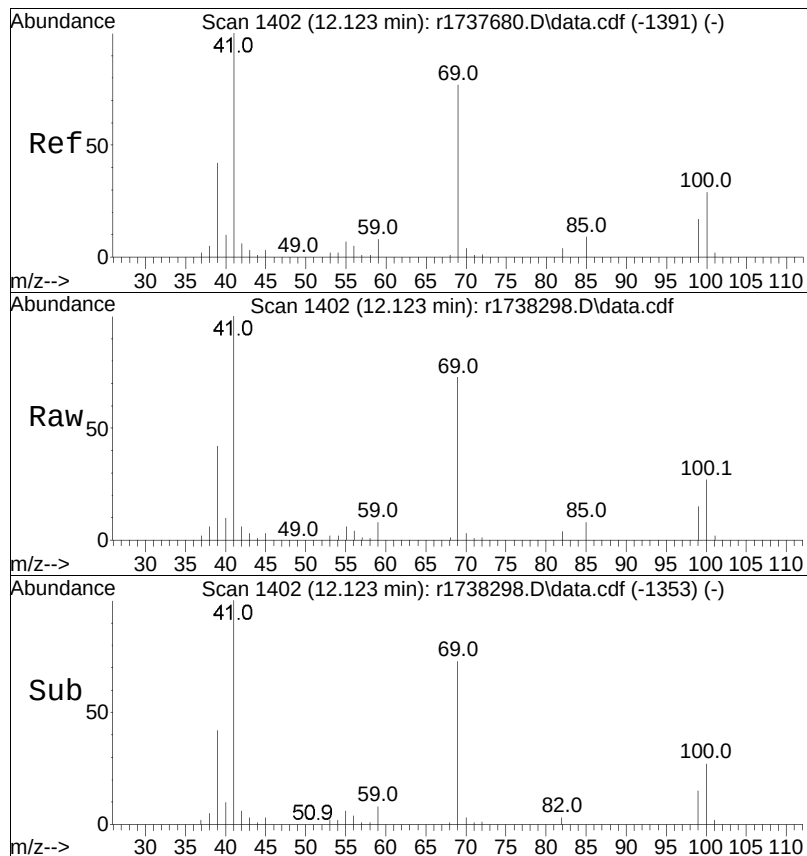




#59
trichloroethene
Concen: 10.44 ppbV
RT: 11.877 min Scan# 1365
Delta R.T. 0.000 min
Lab File: r1738298.D
Acq: 1 Feb 2024 3:22 PM

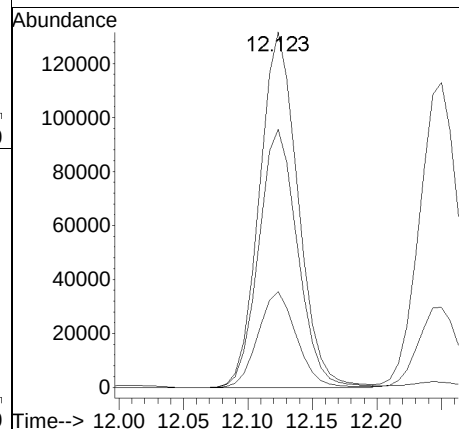
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	269466		
132	96.9		75.8	113.8
97	59.1		47.0	70.4

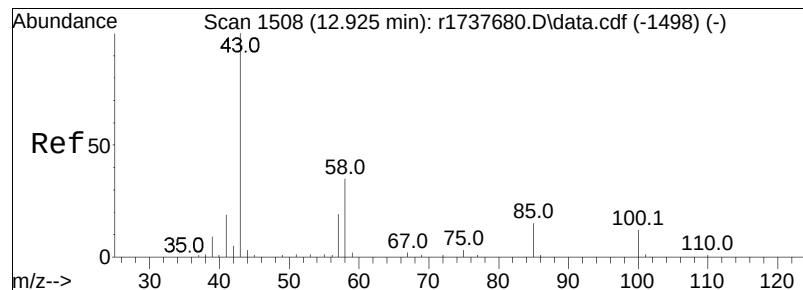




#61
methyl methacrylate
Concen: 12.11 ppbV
RT: 12.123 min Scan# 1402
Delta R.T. 0.000 min
Lab File: r1738298.D
Acq: 1 Feb 2024 3:22 PM

Tgt Ion	Ratio	Lower	Upper
41	100		
69	73.4	62.2	93.4
100	26.8	24.0	36.0





#64

4-methyl-2-pentanone

Concen: 11.05 ppbV

RT: 12.925 min Scan# 1508

Delta R.T. 0.000 min

Lab File: r1738298.D

Acq: 1 Feb 2024 3:22 PM

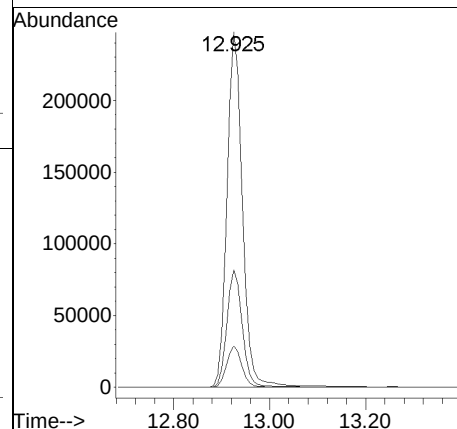
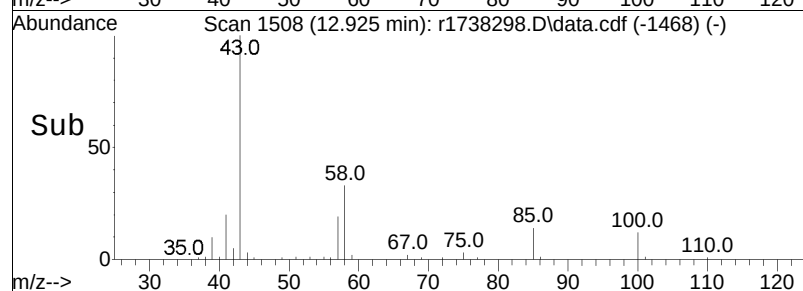
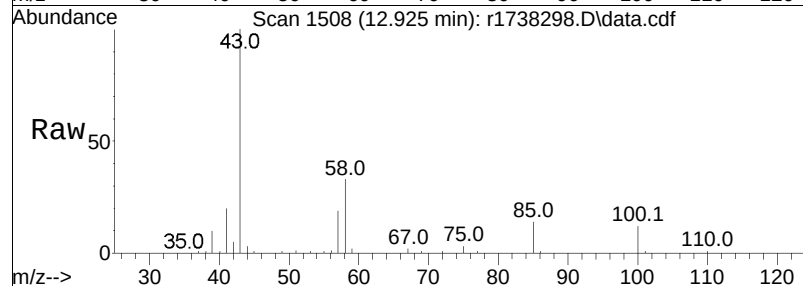
Tgt Ion: 43 Resp: 558612

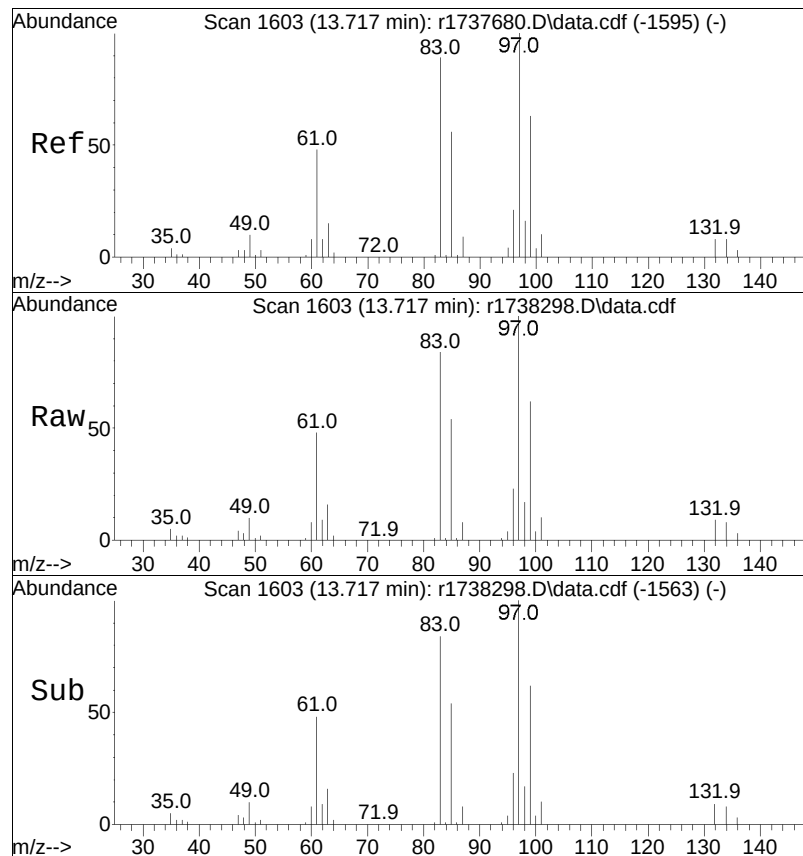
Ion Ratio Lower Upper

43 100

58 33.1 27.9 41.9

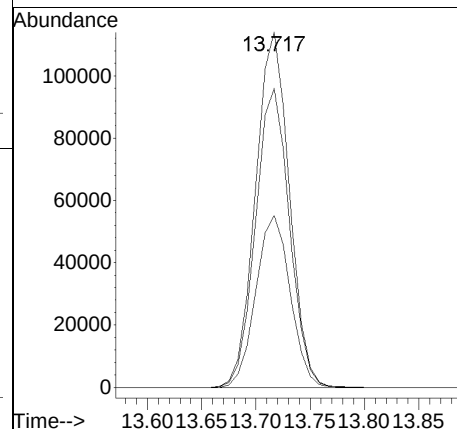
100 11.7 9.9 14.9

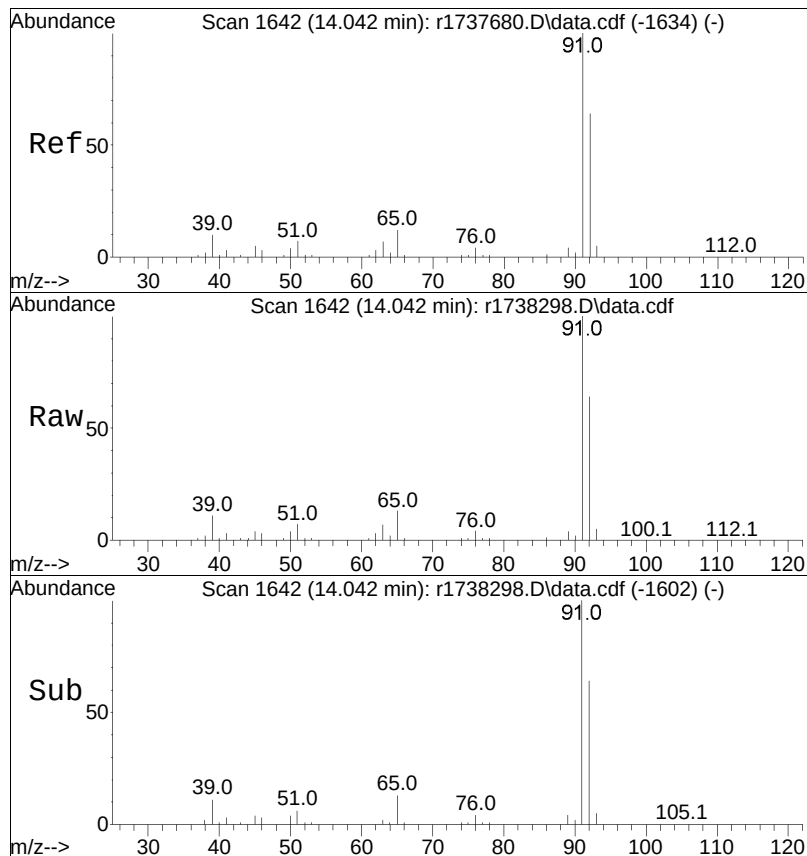




#66
 1,1,2-trichloroethane
 Concen: 10.67 ppbV
 RT: 13.717 min Scan# 1603
 Delta R.T. 0.000 min
 Lab File: r1738298.D
 Acq: 1 Feb 2024 3:22 PM

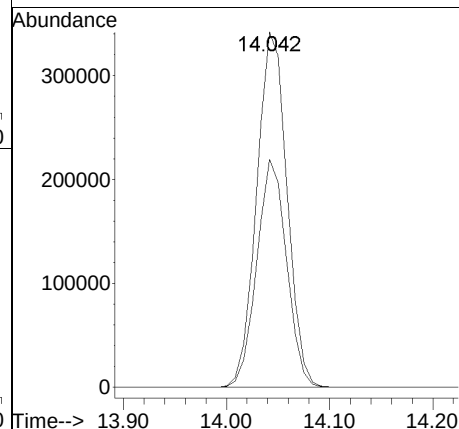
Tgt Ion	Ratio	Resp	Lower	Upper
97	100	247242		
83	84.2		71.0	106.4
61	48.4		38.3	57.5

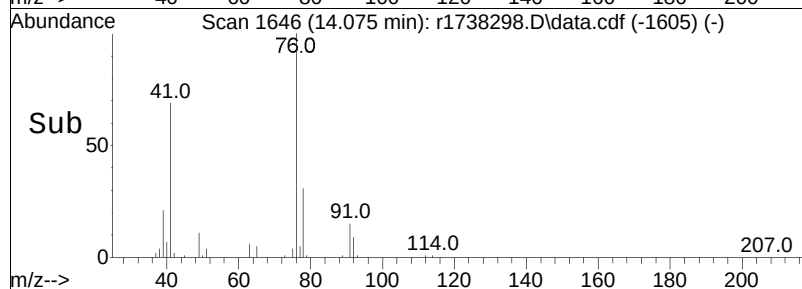
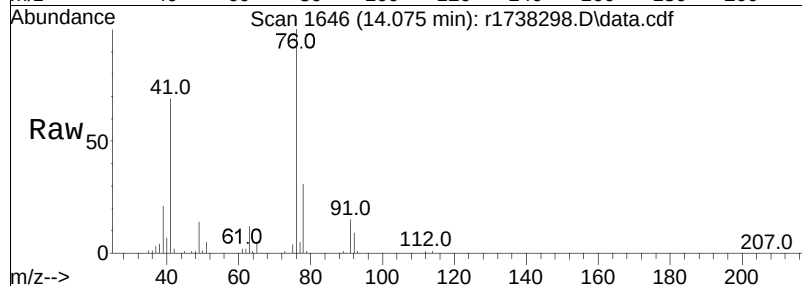
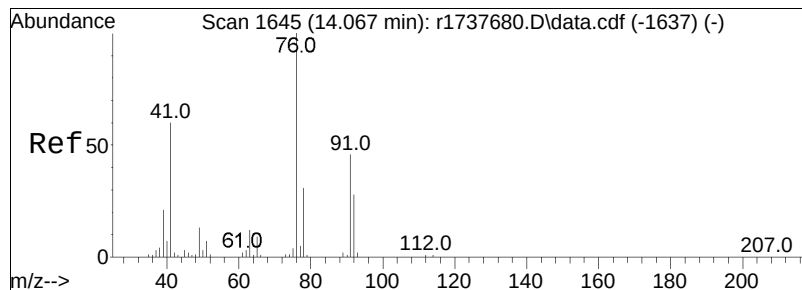




#68
 toluene
 Concen: 9.71 ppbV
 RT: 14.042 min Scan# 1642
 Delta R.T. 0.000 min
 Lab File: r1738298.D
 Acq: 1 Feb 2024 3:22 PM

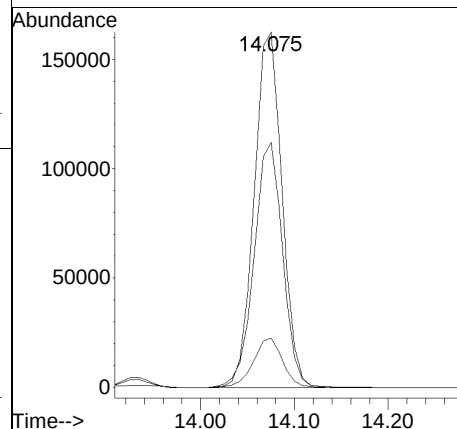
Tgt	Ion	Resp	Lower	Upper
91	100	699993		
92	64.2	51.2	76.8	

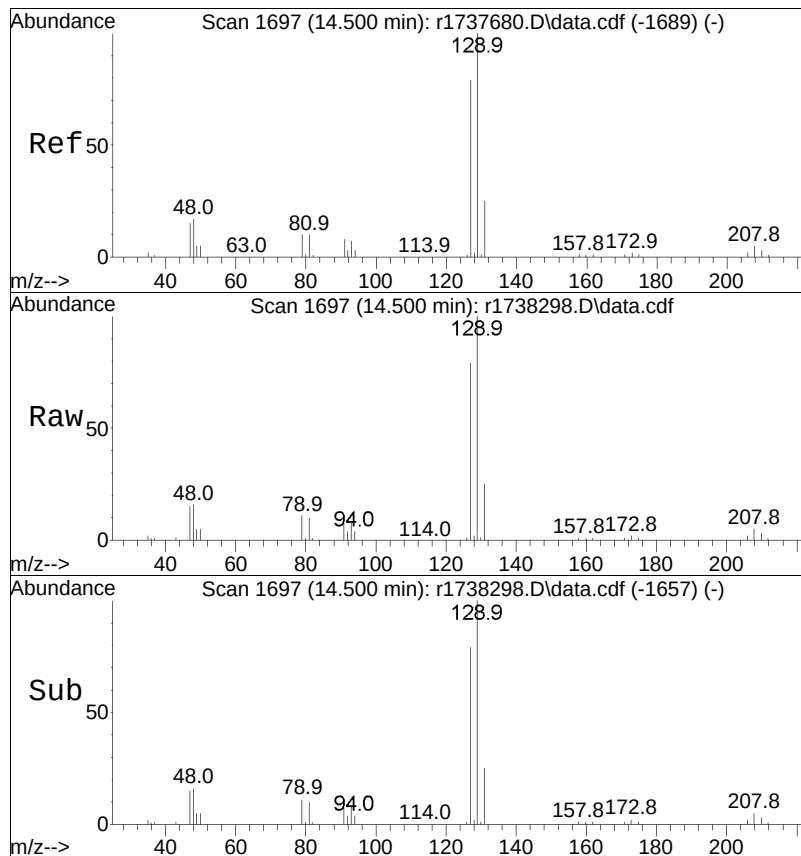




#71
 1,3-dichloropropane
 Concen: 9.27 ppbV
 RT: 14.075 min Scan# 1646
 Delta R.T. 0.008 min
 Lab File: r1738298.D
 Acq: 1 Feb 2024 3:22 PM

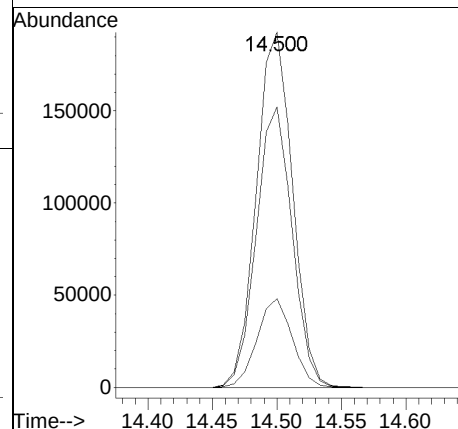
Tgt Ion:	76	Resp:	335442
Ion Ratio	Lower	Upper	
76	100		
41	68.9	48.1	72.1
49	13.9	10.6	15.8

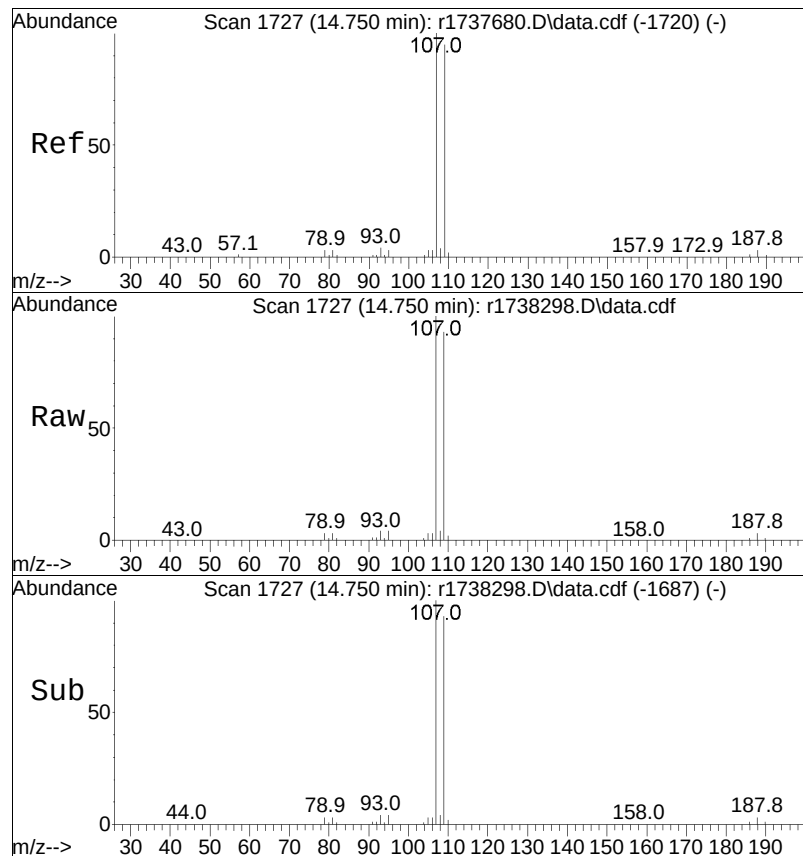




#74
 dibromochloromethane
 Concen: 12.38 ppbV
 RT: 14.500 min Scan# 1697
 Delta R.T. 0.000 min
 Lab File: r1738298.D
 Acq: 1 Feb 2024 3:22 PM

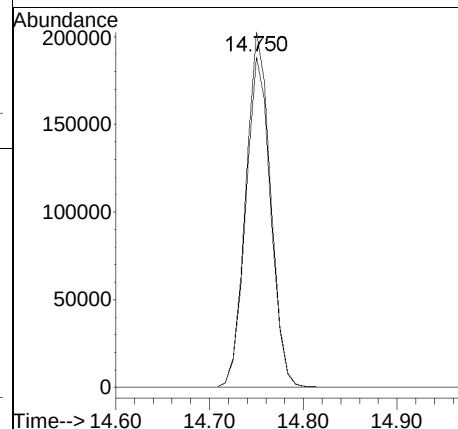
Tgt Ion	Ratio	Resp	Lower	Upper
129	100	376824		
127	78.9		63.3	94.9
131	25.0		19.6	29.4

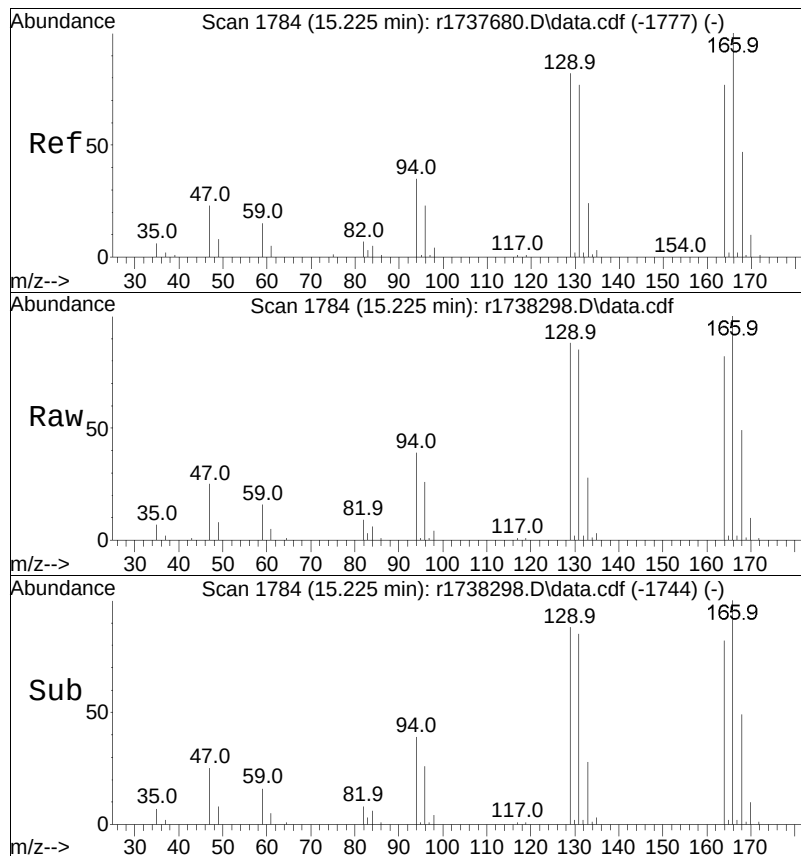




#75
 1,2-dibromoethane
 Concen: 10.06 ppbV
 RT: 14.750 min Scan# 1727
 Delta R.T. 0.000 min
 Lab File: r1738298.D
 Acq: 1 Feb 2024 3:22 PM

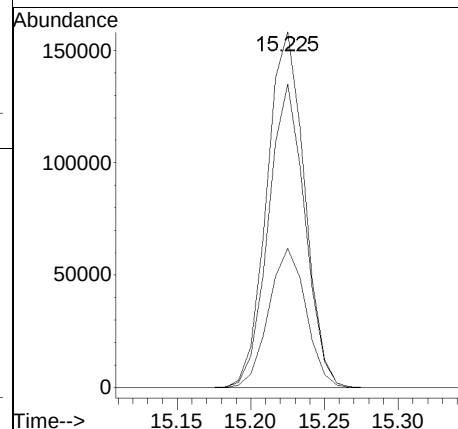
Tgt Ion	Ratio	Lower	Upper
107	100		
109	93.0	76.4	114.6

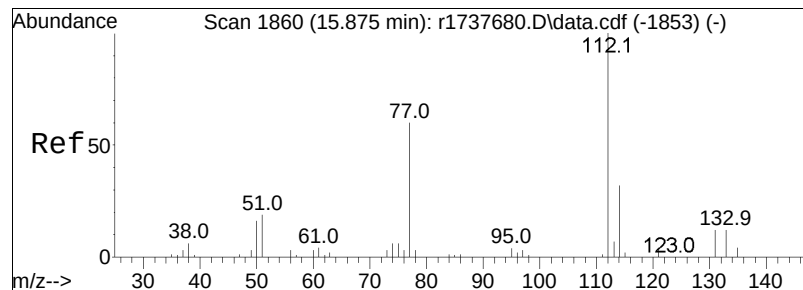




#78
 tetrachloroethene
 Concen: 9.75 ppbV
 RT: 15.225 min Scan# 1784
 Delta R.T. 0.000 min
 Lab File: r1738298.D
 Acq: 1 Feb 2024 3:22 PM

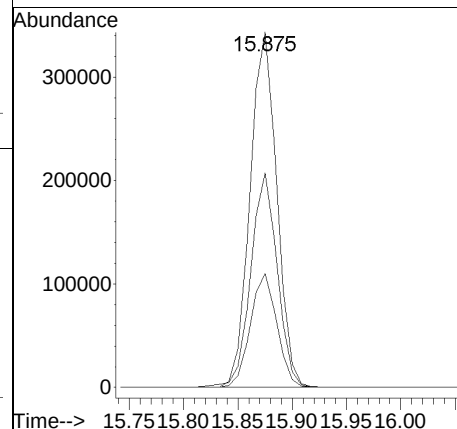
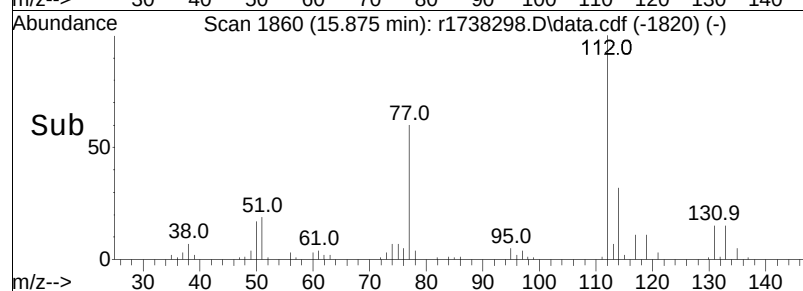
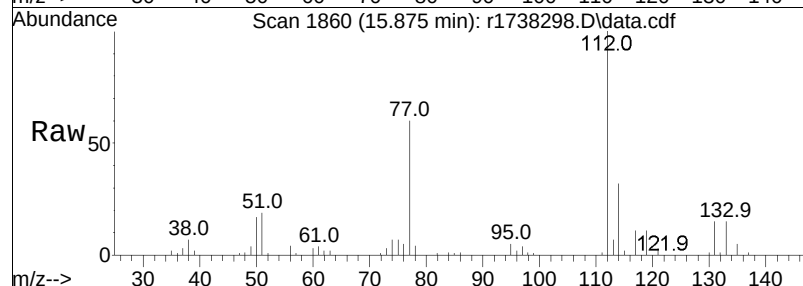
Tgt Ion:	166	Resp:	280858
Ion Ratio	Lower	Upper	
166	100		
131	85.4	61.3	91.9
94	39.1	27.7	41.5

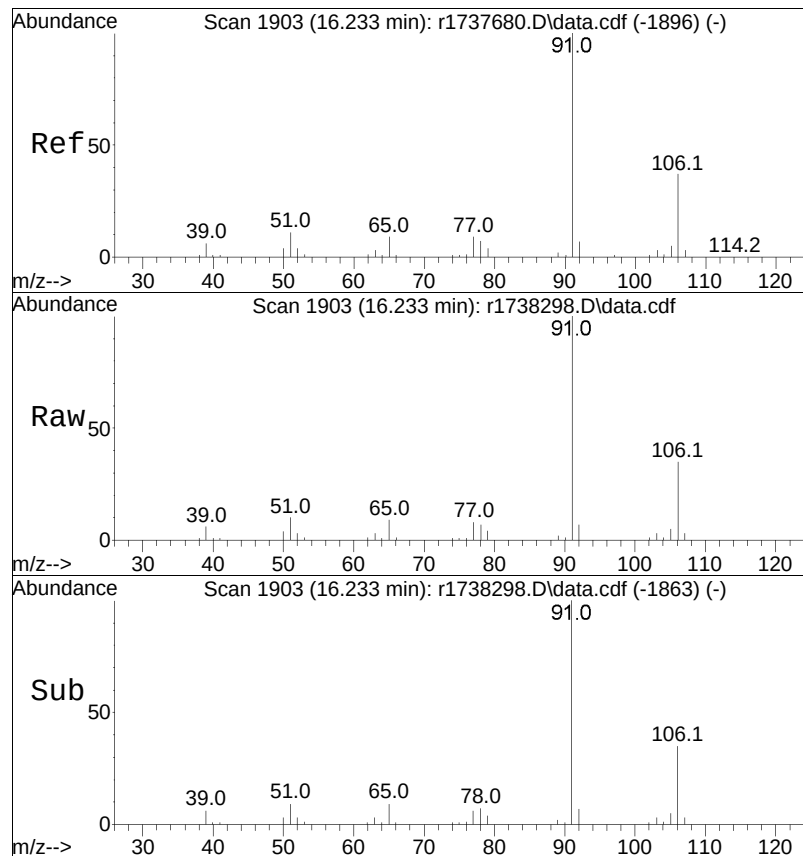




#80
chlorobenzene
Concen: 9.49 ppbV
RT: 15.875 min Scan# 1860
Delta R.T. 0.000 min
Lab File: r1738298.D
Acq: 1 Feb 2024 3:22 PM

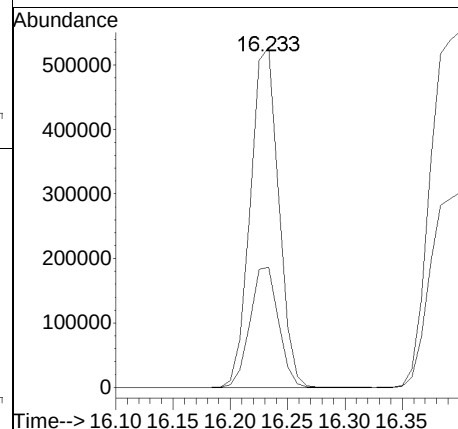
Tgt	Ion:112	Resp:	588054
Ion	Ratio	Lower	Upper
112	100		
114	32.1	25.8	38.8
77	60.4	48.4	72.6

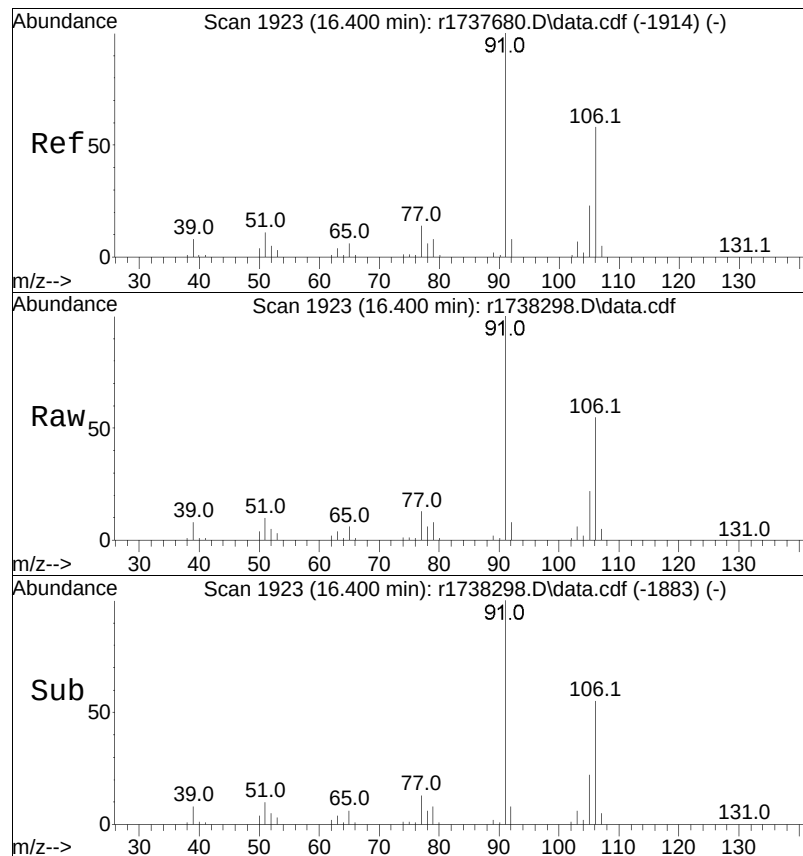




#81
ethylbenzene
Concen: 9.97 ppbV
RT: 16.233 min Scan# 1903
Delta R.T. 0.000 min
Lab File: r1738298.D
Acq: 1 Feb 2024 3:22 PM

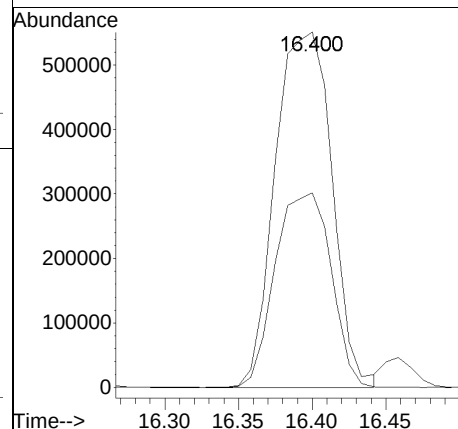
Tgt	Ion	Resp	Lower	Upper
91	100	905808		
106	35.3	29.4	44.0	

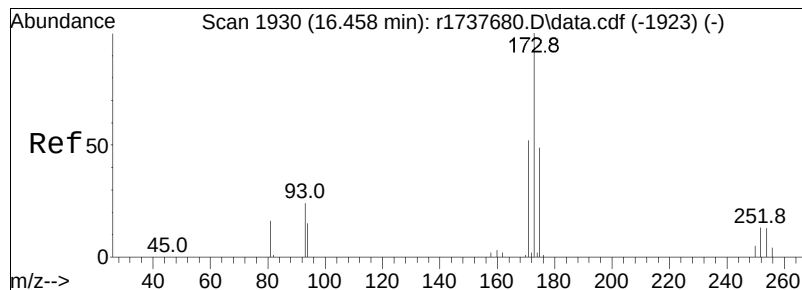




#83
 m+p-xylene
 Concen: 20.48 ppbV
 RT: 16.400 min Scan# 1923
 Delta R.T. 0.000 min
 Lab File: r1738298.D
 Acq: 1 Feb 2024 3:22 PM

Tgt Ion: 91 Resp: 1474127
 Ion Ratio Lower Upper
 91 100
 106 54.8 46.1 69.1





#84

bromoform

Concen: 12.56 ppbV

RT: 16.458 min Scan# 1930

Delta R.T. 0.000 min

Lab File: r1738298.D

Acq: 1 Feb 2024 3:22 PM

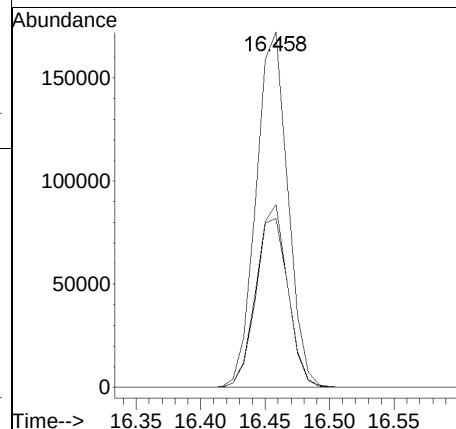
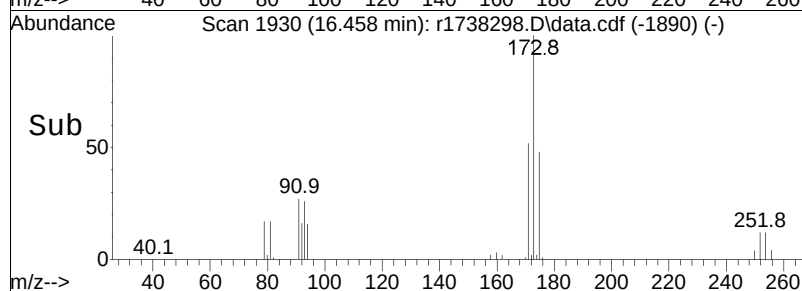
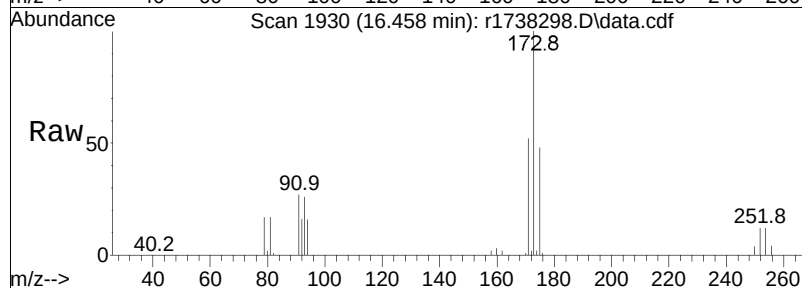
Tgt Ion:173 Resp: 295631

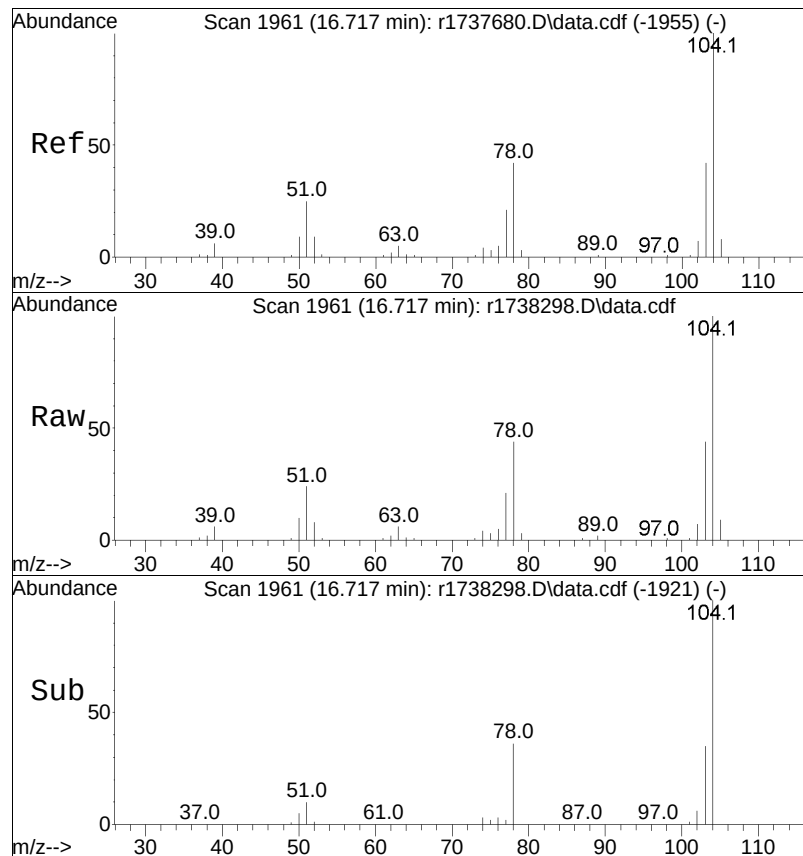
Ion Ratio Lower Upper

173 100

175 47.5 39.1 58.7

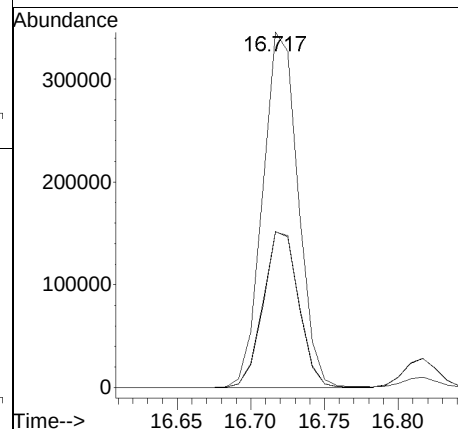
171 51.5 41.8 62.8

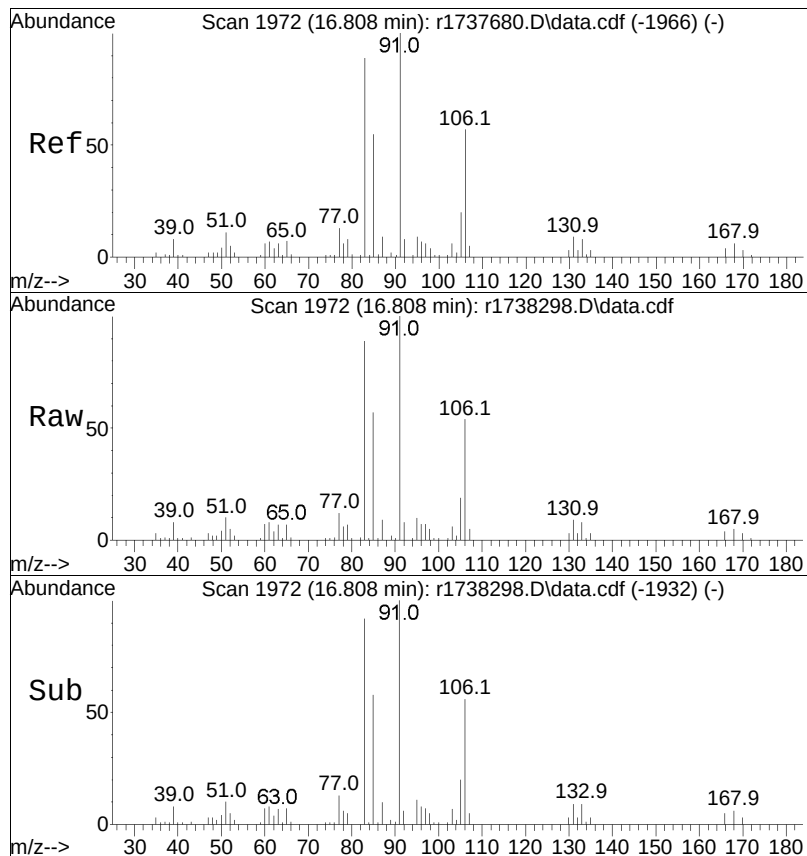




#85
styrene
Concen: 9.48 ppbV
RT: 16.717 min Scan# 1961
Delta R.T. 0.000 min
Lab File: r1738298.D
Acq: 1 Feb 2024 3:22 PM

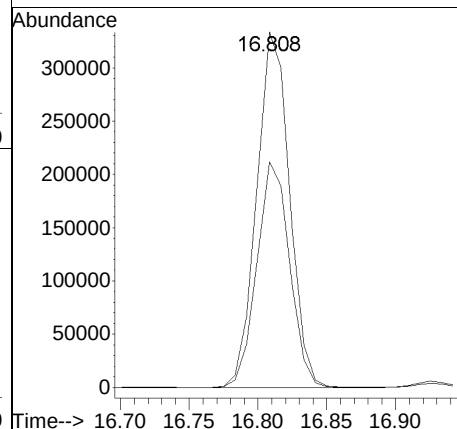
Tgt	Ion	Ratio	Lower	Upper
104	100			
103	43.9	33.9	50.9	
78	43.7	33.4	50.2	

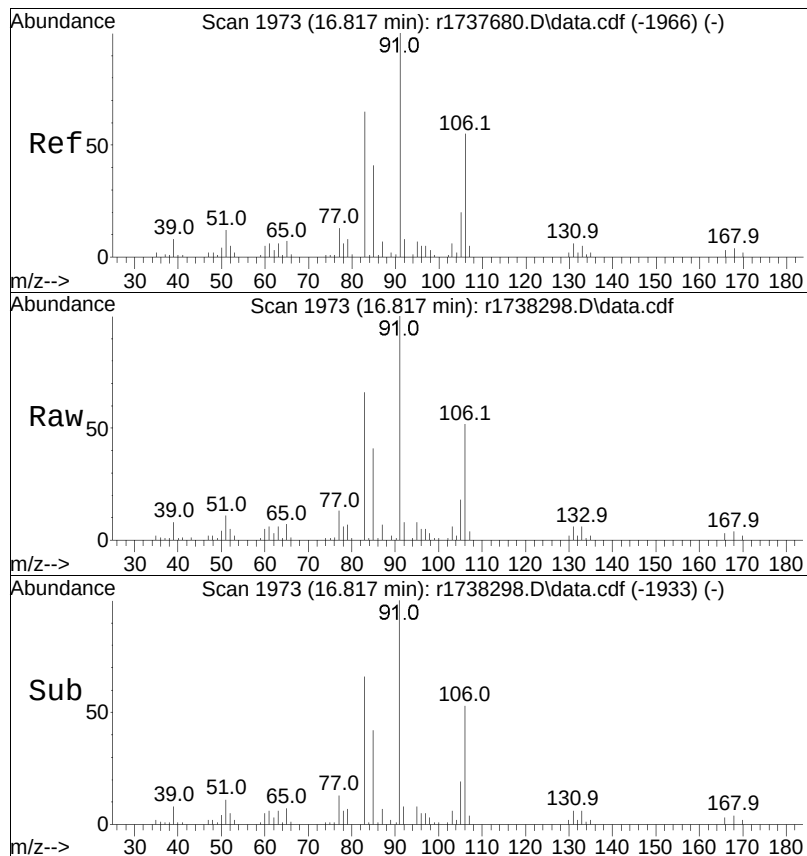




#86
 1,1,2,2-tetrachloroethane
 Concen: 10.21 ppbV
 RT: 16.808 min Scan# 1972
 Delta R.T. 0.000 min
 Lab File: r1738298.D
 Acq: 1 Feb 2024 3:22 PM

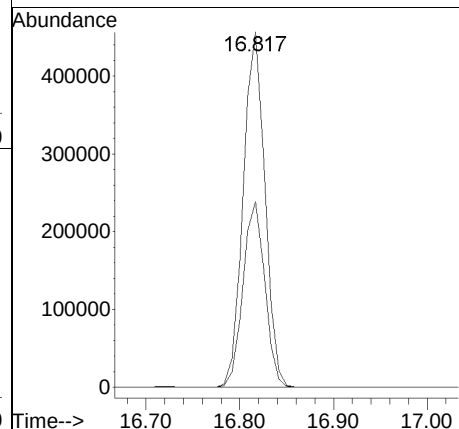
Tgt	Ion	Resp	Ratio	Lower	Upper
83	100	554233			
85	63.5	50.1	75.1		

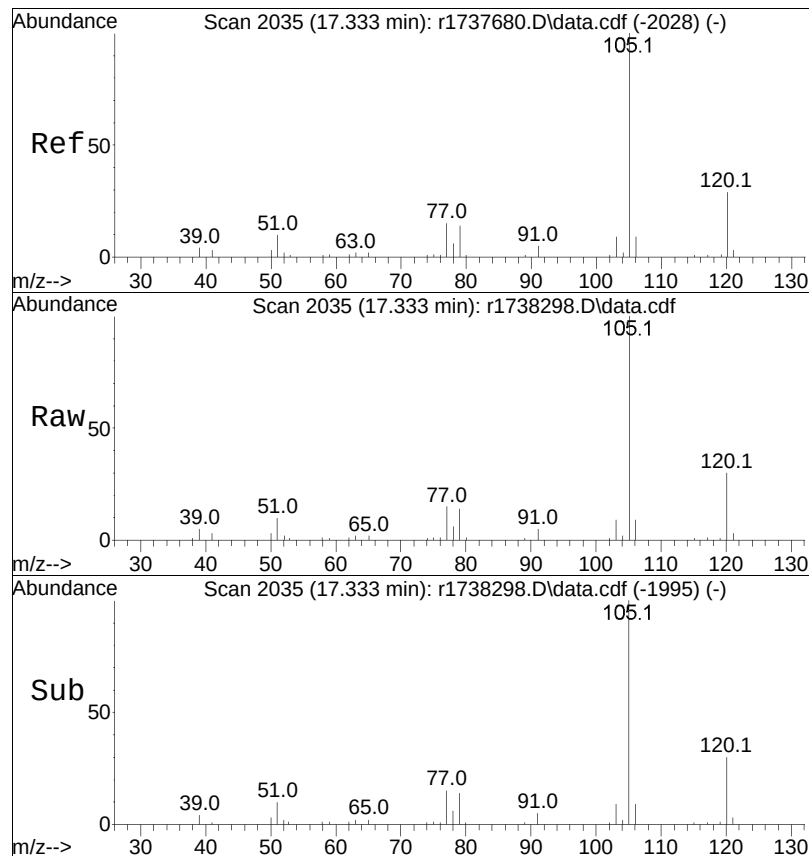




#87
 o-xylene
 Concen: 10.21 ppbV
 RT: 16.817 min Scan# 1973
 Delta R.T. 0.000 min
 Lab File: r1738298.D
 Acq: 1 Feb 2024 3:22 PM

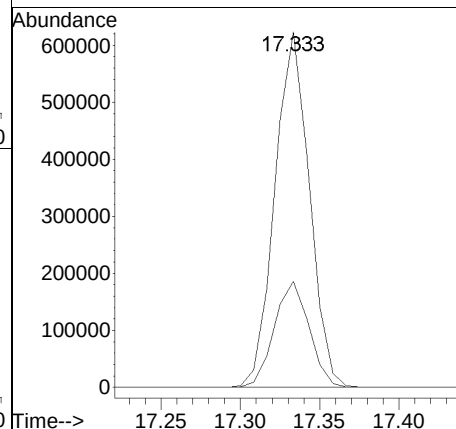
Tgt Ion	Ratio	Lower	Upper
91	100		
106	52.3	44.2	66.4

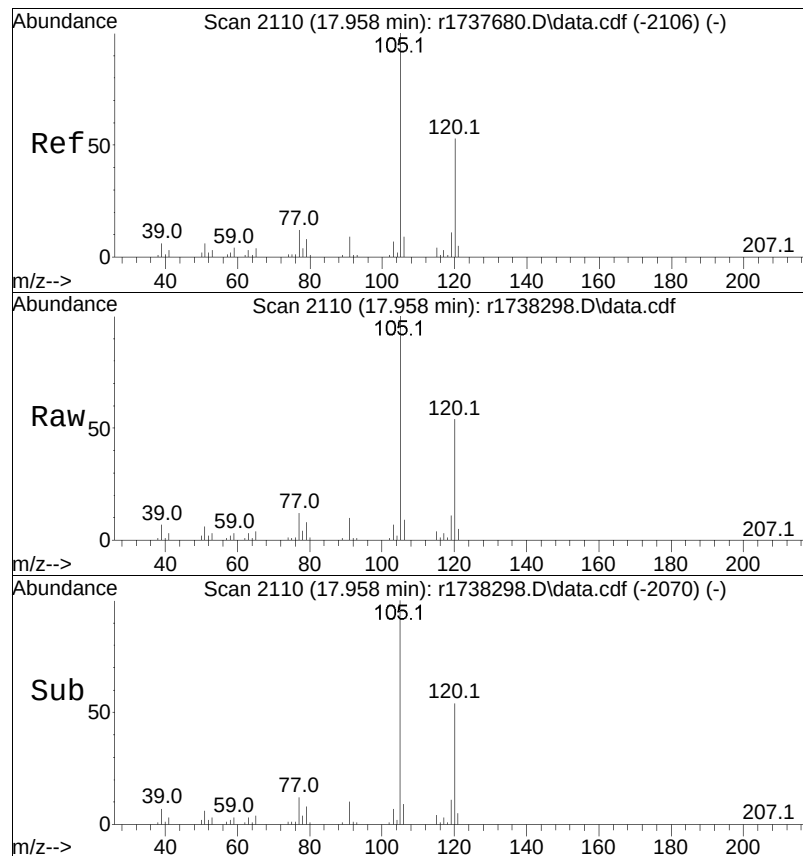




#91
isopropylbenzene
Concen: 9.77 ppbV
RT: 17.333 min Scan# 2035
Delta R.T. 0.000 min
Lab File: r1738298.D
Acq: 1 Feb 2024 3:22 PM

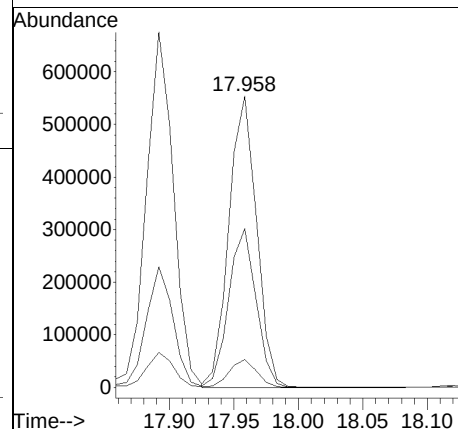
Tgt	Ion	Ratio	Lower	Upper
105	100			
120	29.8	23.5	35.3	

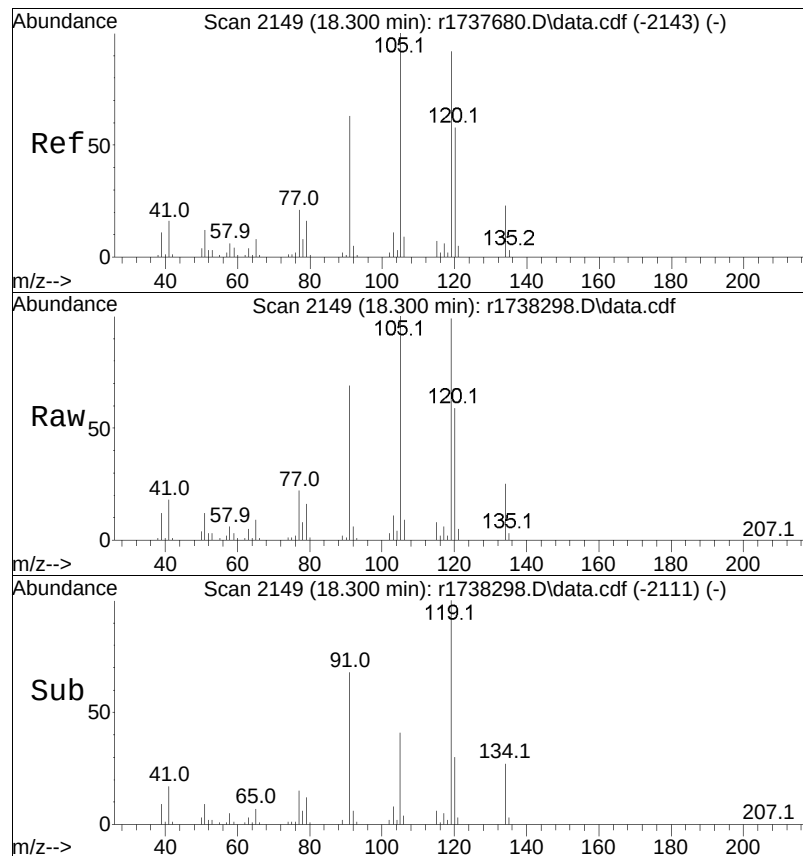




#97
 1,3,5-trimethylbenzene
 Concen: 9.68 ppbV
 RT: 17.958 min Scan# 2110
 Delta R.T. 0.000 min
 Lab File: r1738298.D
 Acq: 1 Feb 2024 3:22 PM

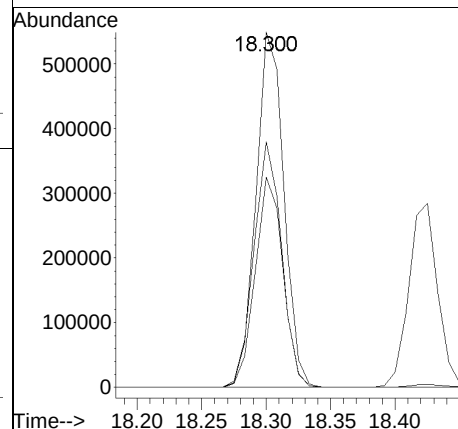
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	828748		
120	54.5		42.7	64.1
91	9.6		7.3	10.9

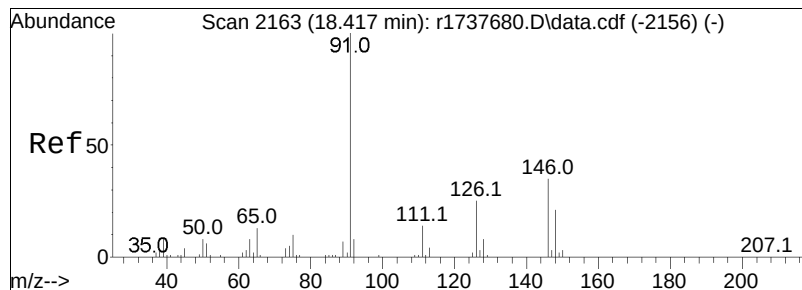




#99
 1,2,4-trimethylbenzene
 Concen: 9.73 ppbV
 RT: 18.300 min Scan# 2149
 Delta R.T. 0.000 min
 Lab File: r1738298.D
 Acq: 1 Feb 2024 3:22 PM

Tgt Ion	Ratio	Lower	Upper
105	100		
120	59.2	46.0	69.0
91	69.1	50.6	76.0





#101

Benzyl Chloride

Concen: 9.34 ppbV

RT: 18.425 min Scan# 2164

Delta R.T. 0.008 min

Lab File: r1738298.D

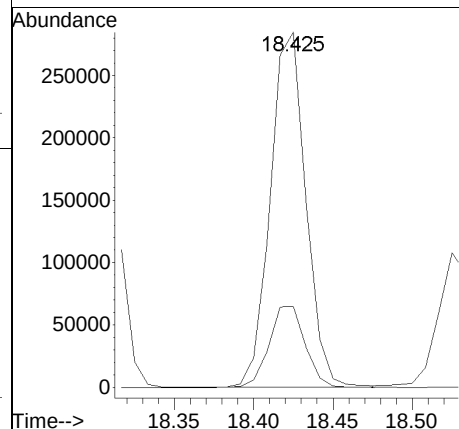
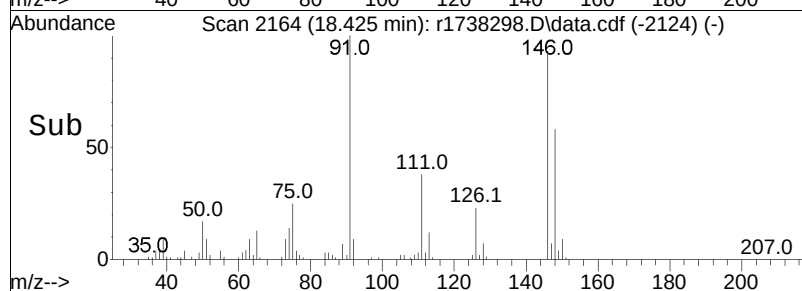
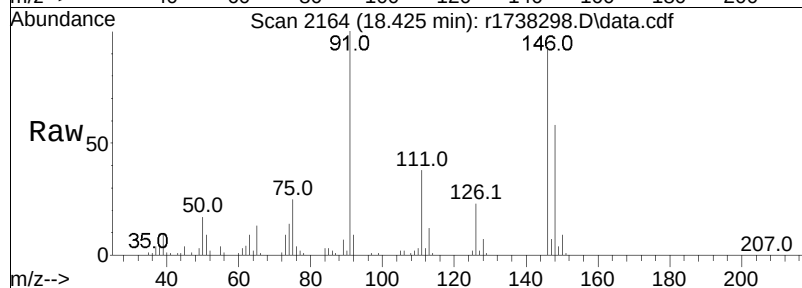
Acq: 1 Feb 2024 3:22 PM

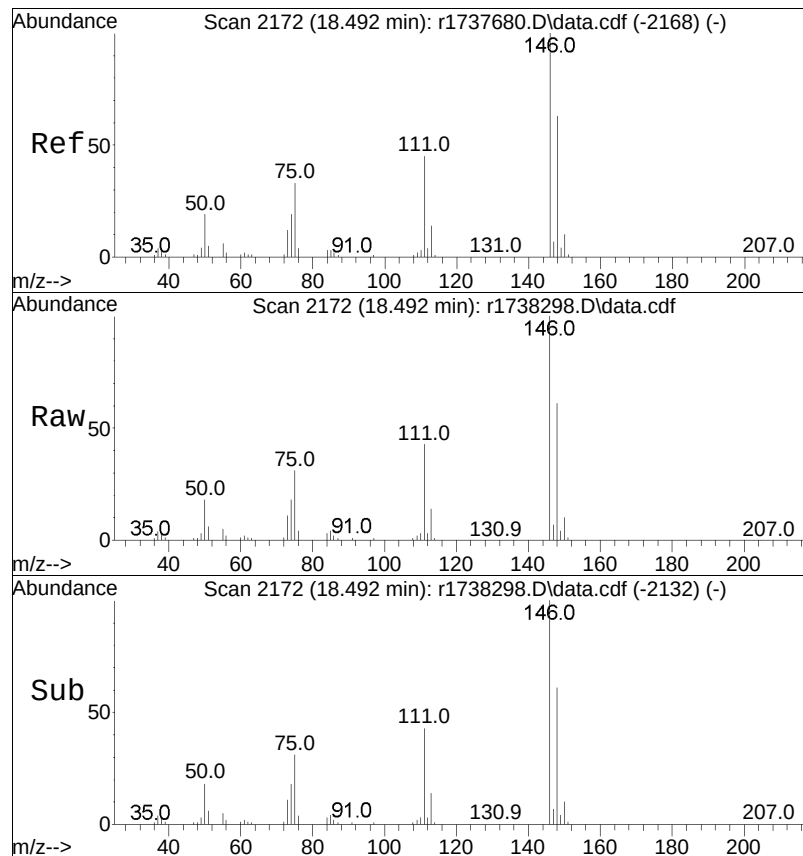
Tgt Ion: 91 Resp: 442901

Ion Ratio Lower Upper

91 100

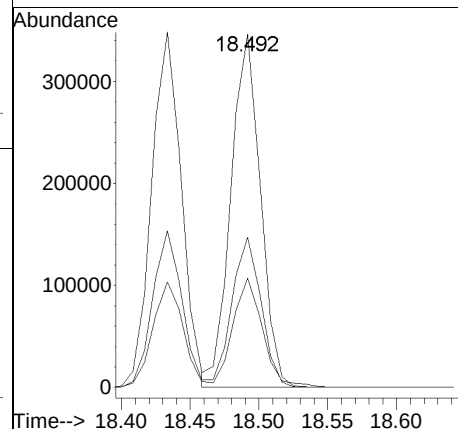
126 22.8 19.6 29.4

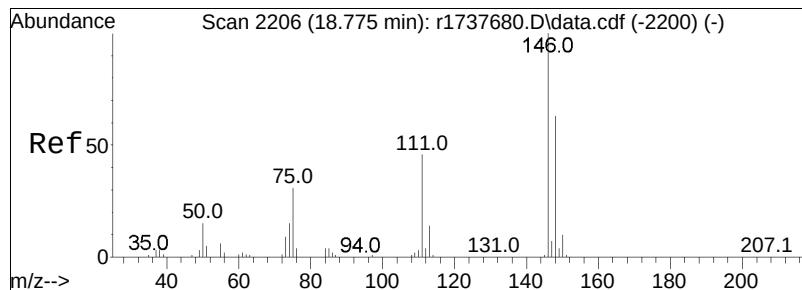




#103
 1,4-dichlorobenzene
 Concen: 10.36 ppbV
 RT: 18.492 min Scan# 2172
 Delta R.T. 0.000 min
 Lab File: r1738298.D
 Acq: 1 Feb 2024 3:22 PM

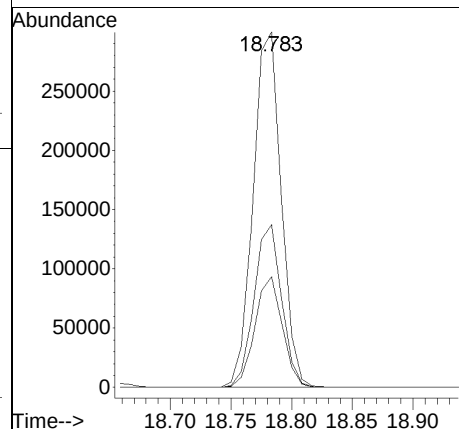
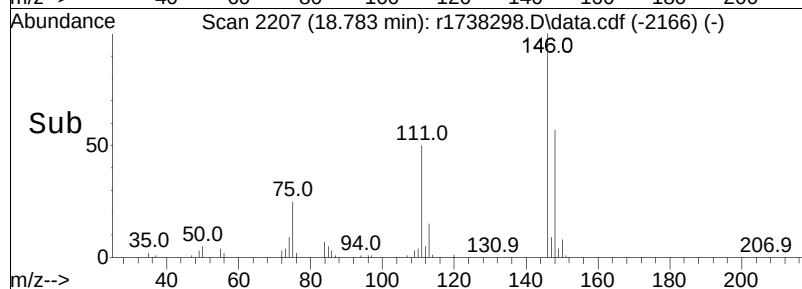
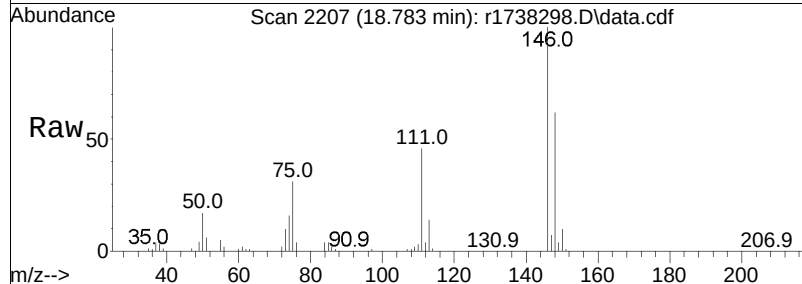
Tgt Ion:	146	Resp:	516709
Ion Ratio	Lower	Upper	
146	100		
111	42.5	35.8	53.6
75	30.9	26.6	39.8

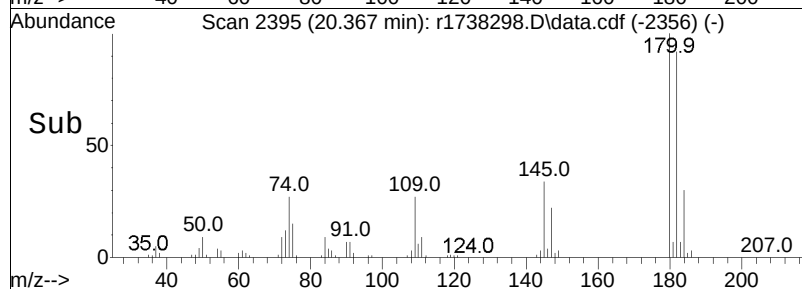
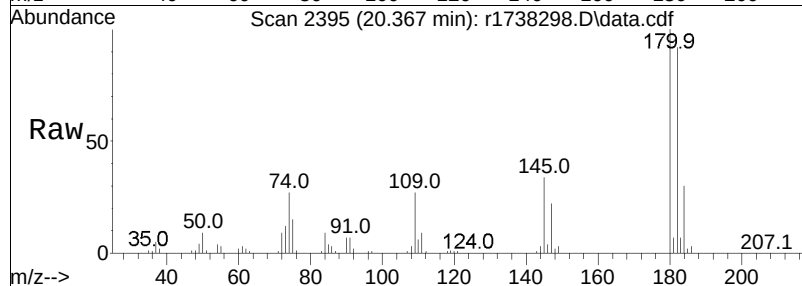
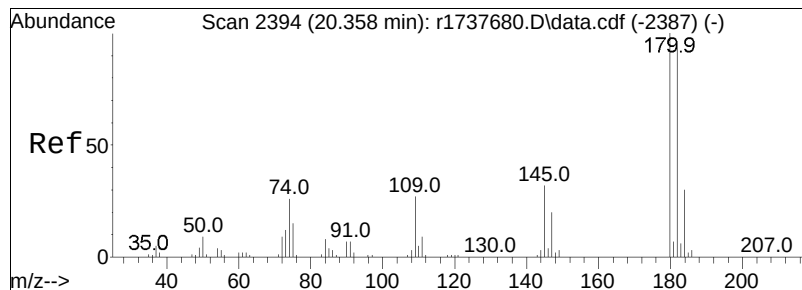




#107
 1,2-dichlorobenzene
 Concen: 9.89 ppbV
 RT: 18.783 min Scan# 2207
 Delta R.T. 0.008 min
 Lab File: r1738298.D
 Acq: 1 Feb 2024 3:22 PM

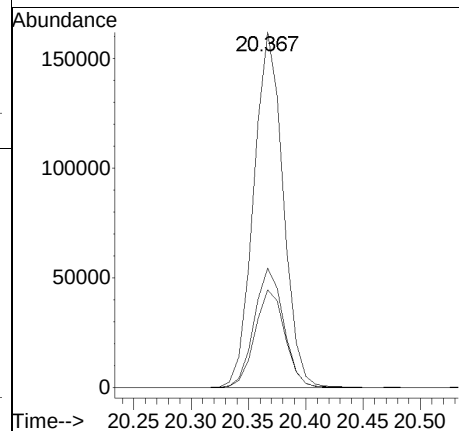
Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.8	36.5	54.7
75	31.2	24.6	36.8

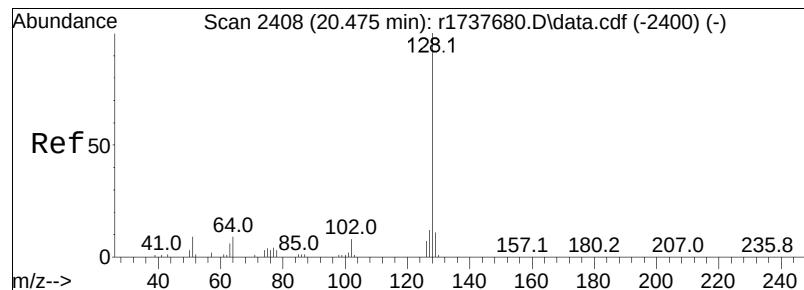




#115
 1,2,4-trichlorobenzene
 Concen: 8.94 ppbV
 RT: 20.367 min Scan# 2395
 Delta R.T. 0.008 min
 Lab File: r1738298.D
 Acq: 1 Feb 2024 3:22 PM

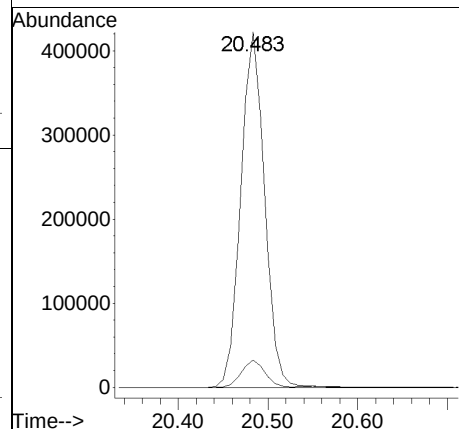
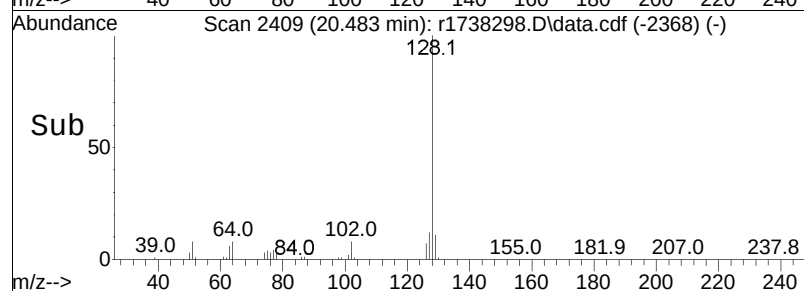
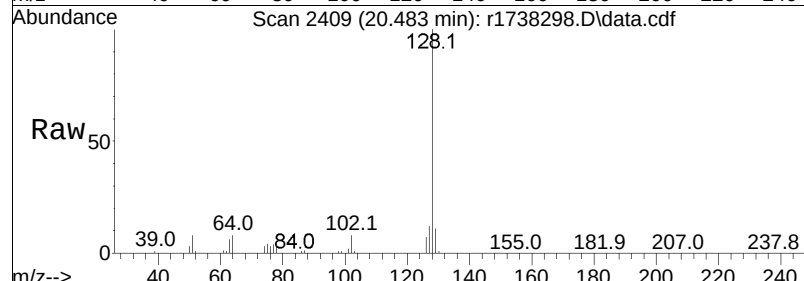
Tgt	Ion	Ratio	Resp	Lower	Upper
180	100		289401		
145	33.5	25.4		38.2	
109	27.5	21.8		32.8	





#116
 naphthalene
 Concen: 8.67 ppbV
 RT: 20.483 min Scan# 2409
 Delta R.T. 0.008 min
 Lab File: r1738298.D
 Acq: 1 Feb 2024 3:22 PM

Tgt	Ion	Ratio	Lower	Upper
128	100			
102	7.7	6.2	9.2	



Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542426.D
 Acq On : 31 Jan 2024 10:53 PM
 Operator : AIRLAB15:JMB
 Sample : WG1880230-5,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 06:51:07 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131T\r1542413.D
 Sub List : PADEP-T015 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.133	49	355818	10.000	ppbV	0.06
Standard Area = 375210			Recovery =	94.83%		
43) 1,4-difluorobenzene	11.347	114	939032	10.000	ppbV	# 0.05
Standard Area = 971110			Recovery =	96.70%		
67) chlorobenzene-D5	16.050	54	217693	10.000	ppbV	0.04
Standard Area = 187857			Recovery =	115.88%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	4.024	85	21858	0.539	ppbV	98
6) chloromethane	4.192	50	4037	0.265	ppbV	91
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	4.558		0	N.D.		
13) bromomethane	4.852		0	N.D.		
14) chloroethane	0.000		0	N.D.		
17) vinyl bromide	0.000		0	N.D.		
18) acrolein	5.553	56	1107	0.134	ppbV #	21
19) acetone	5.693	43	583948	29.076	ppbV #	85
21) trichlorofluoromethane	5.883	101	15969	0.527	ppbV	100
22) isopropyl alcohol	5.973	45	823863	32.558	ppbV	97
23) acrylonitrile	6.210	53	6721	0.373	ppbV	93
26) 1,1-dichloroethene	0.000		0	N.D.	d	
28) methylene chloride	6.726	49	45305	1.651	ppbV	94
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	7.032	76	21001	0.326	ppbV #	60
31) Freon 113	7.026	101	2358	0.059	ppbV #	81
32) trans-1,2-dichloroethene	7.775		0	N.D.		
33) 1,1-dichloroethane	8.075		0	N.D.		
34) MTBE	0.000		0	N.D.	d	
37) cis-1,2-dichloroethene	0.000		0	N.D.		
39) chloroform	9.283	83	1796	0.041	ppbV #	86
40) Tetrahydrofuran	9.742	42	19867M6	0.672	ppbV	
42) 1,2-dichloroethane	10.108		0	N.D.		
44) hexane	9.192	57	24682	0.601	ppbV #	45
48) 1,1,1-trichloroethane	0.000		0	N.D.		
50) benzene	10.927	78	21344	0.281	ppbV	98
52) carbon tetrachloride	11.093	117	1327	0.047	ppbV #	94

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\
 Data File : r1542426.D
 Acq On : 31 Jan 2024 10:53 PM
 Operator : AIRLAB15:JMB
 Sample : WG1880230-5,3,250,250
 Misc : WG1880230,ICAL20574
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 06:51:07 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 15:43:21 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131T\r1542413.D
 Sub List : PADEP-T015 - .

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
53)	cyclohexane	11.247	56	5267	0.118	ppbV	#	82
56)	1,2-dichloropropane	0.000		0	N.D.			
57)	bromodichloromethane	0.000		0	N.D.	d		
58)	1,4-dioxane	0.000		0	N.D.	d		
59)	trichloroethene	12.147	130	5394	0.180	ppbV		93
61)	methyl methacrylate	0.000		0	N.D.	d		
64)	4-methyl-2-pentanone	13.217	43	9205M4	0.180	ppbV		
66)	1,1,2-trichloroethane	13.858		0	N.D.			
68)	toluene	14.300	91	148888	1.193	ppbV		99
71)	1,3-dichloropropane	14.300		0	N.D.			
74)	dibromochloromethane	0.000		0	N.D.			
75)	1,2-dibromoethane	0.000		0	N.D.			
78)	tetrachloroethene	15.442	166	24437	0.488	ppbV	#	89
80)	chlorobenzene	16.033		0	N.D.			
81)	ethylbenzene	16.442	91	42993	0.269	ppbV		98
83)	m+p-xylene	16.592	91	91178	0.723	ppbV		91
84)	bromoform	0.000		0	N.D.			
85)	styrene	16.933	104	50474	0.494	ppbV		94
86)	1,1,2,2-tetrachloroethane	16.992		0	N.D.			
87)	o-xylene	17.025	91	31423	0.250	ppbV		93
91)	isopropylbenzene	17.542	105	6869	0.043	ppbV		100
97)	1,3,5-trimethylbenzene	18.158	105	7149	0.046	ppbV		91
99)	1,2,4-trimethylbenzene	18.500	105	27210M3	0.193	ppbV		
101)	Benzyl Chloride	18.633		0	N.D.			
103)	1,4-dichlorobenzene	18.642		0	N.D.			
107)	1,2-dichlorobenzene	18.983		0	N.D.			
115)	1,2,4-trichlorobenzene	0.000		0	N.D.			
116)	naphthalene	20.600	128	8567	0.045	ppbV	#	91

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

Sub List : PADEP-T015 - .ata\Airlab15\2024\01\0131T\r1542413.D

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131T\

Data File : r1542426.D

Acq On : 31 Jan 2024 10:53 PM

Operator : AIRLAB15:JMB

Sample : WG1880230-5,3,250,250

Misc : WG1880230,ICAL20574

ALS Vial : 0 Sample Multiplier: 1

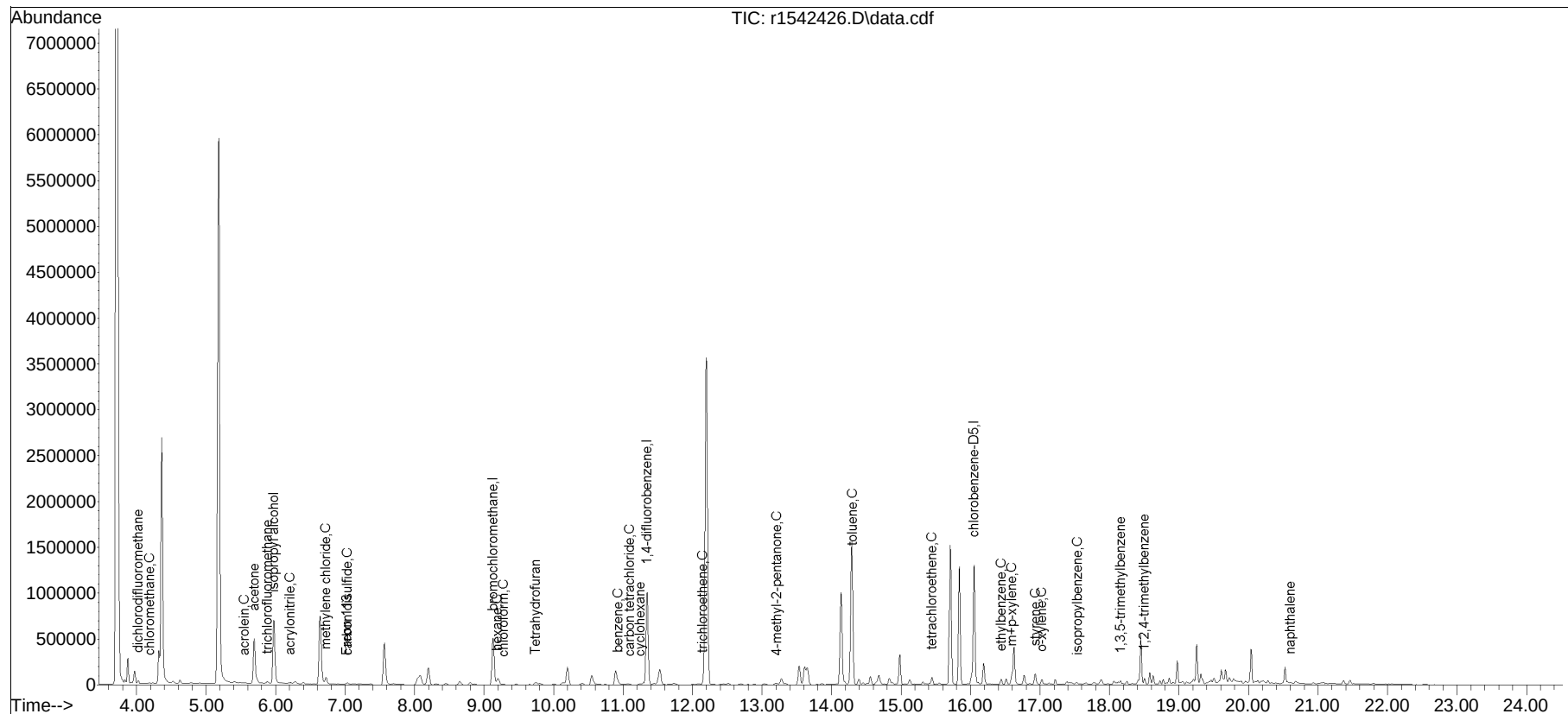
Quant Time: Feb 01 06:51:07 2024

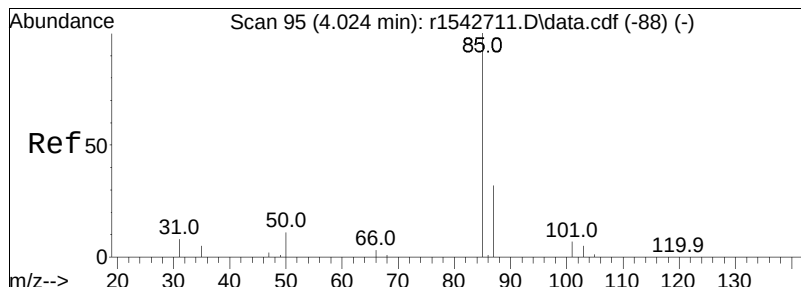
Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131T\TFS15_231120.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

QLast Update : Tue Nov 21 15:43:21 2023

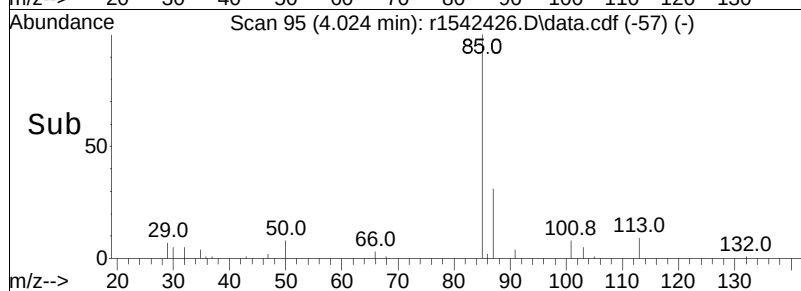
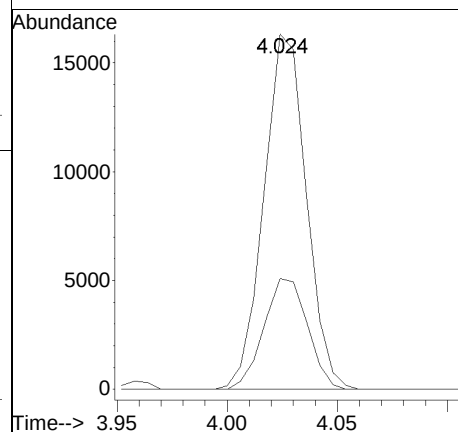
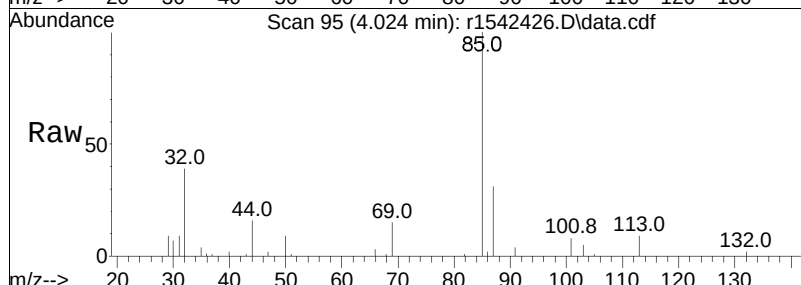
Response via : Initial Calibration

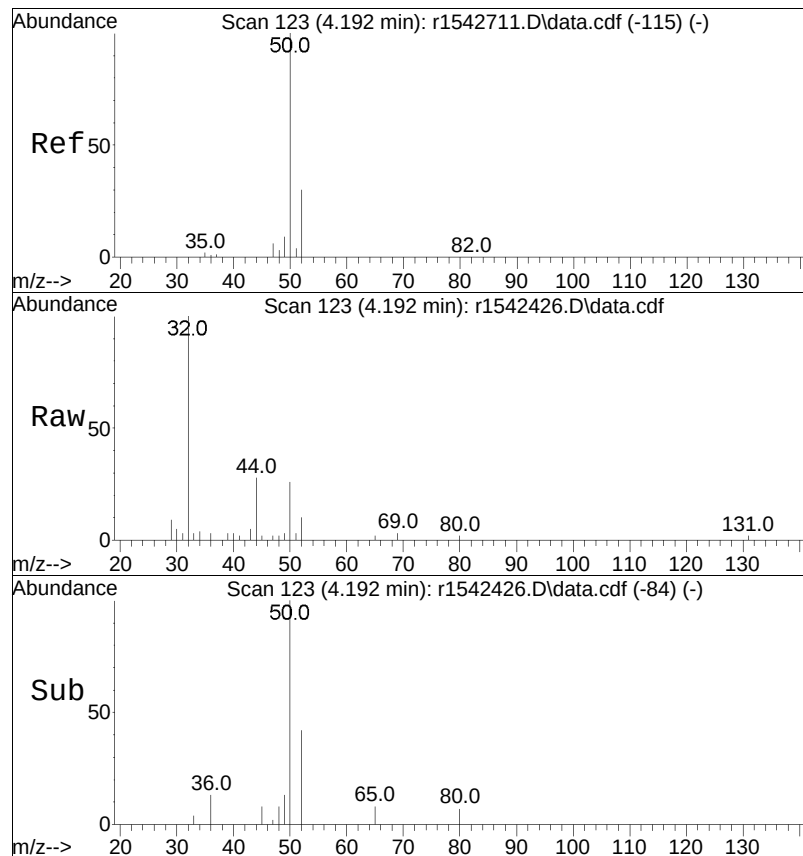




#5
dichlorodifluoromethane
Concen: 0.54 ppbV
RT: 4.024 min Scan# 95
Delta R.T. 0.030 min
Lab File: r1542426.D
Acq: 31 Jan 2024 10:53 PM

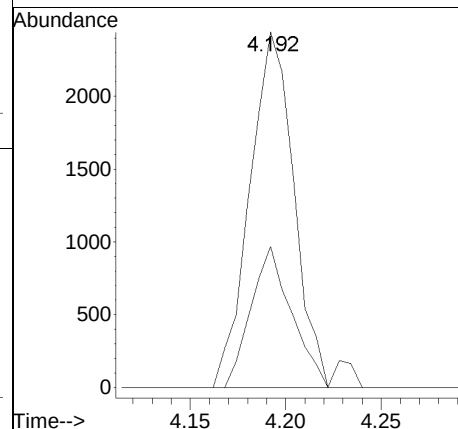
Tgt Ion: 85 Resp: 21858
Ion Ratio Lower Upper
85 100
87 31.2 26.1 39.1

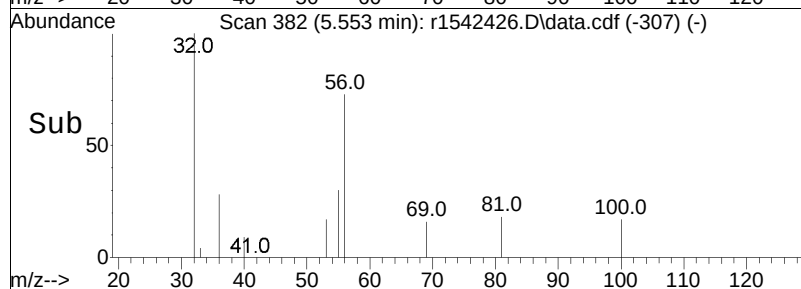
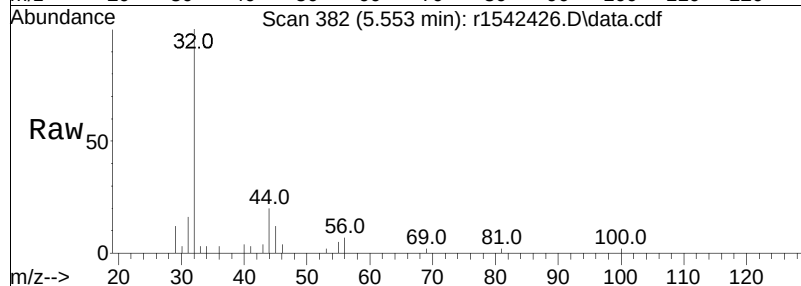
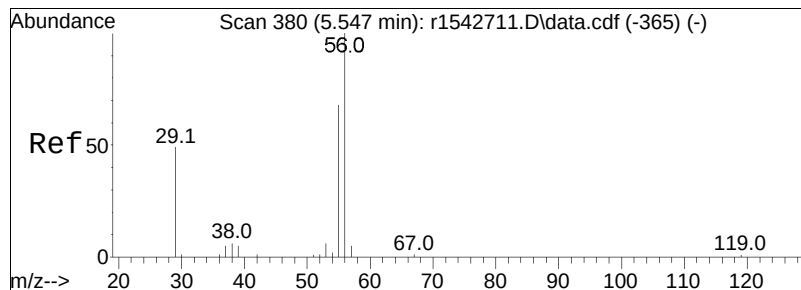




#6
 chloromethane
 Concen: 0.26 ppbV
 RT: 4.192 min Scan# 123
 Delta R.T. 0.036 min
 Lab File: r1542426.D
 Acq: 31 Jan 2024 10:53 PM

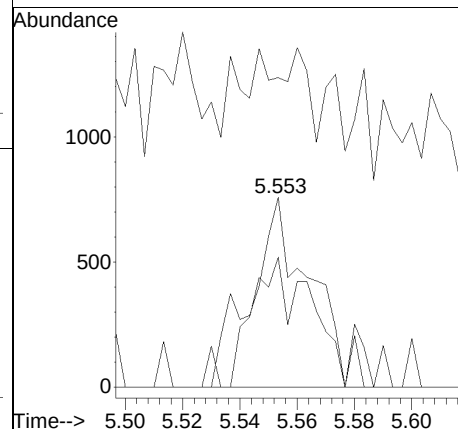
Tgt Ion	Ratio	Lower	Upper
50	100		
52	39.7	27.4	41.2

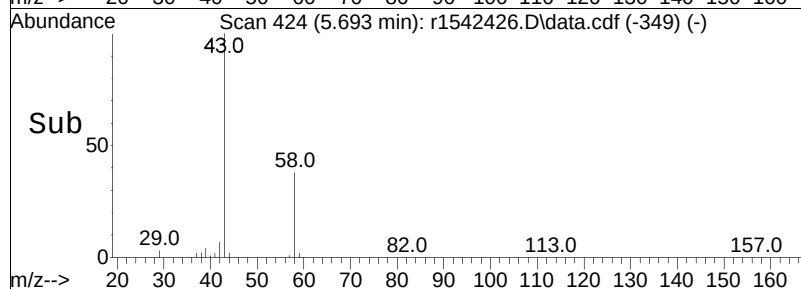
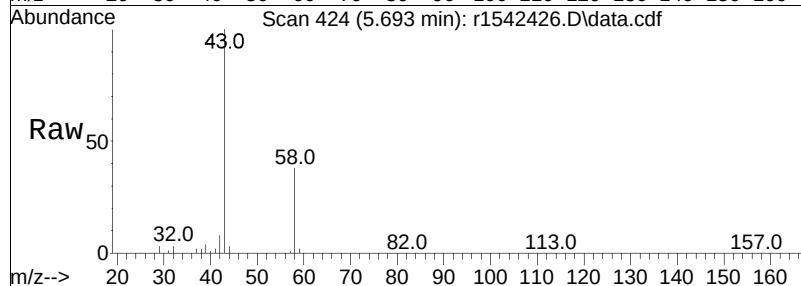
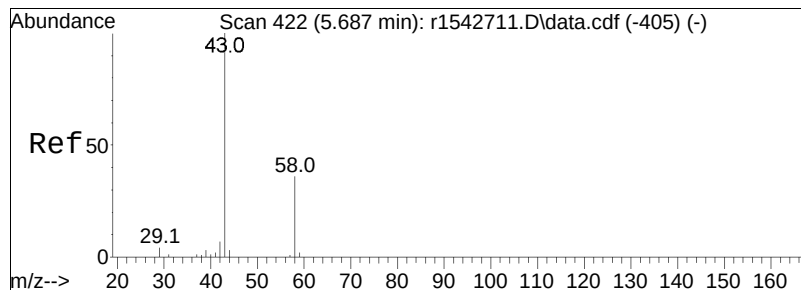




#18
acrolein
Concen: 0.13 ppbV
RT: 5.553 min Scan# 382
Delta R.T. 0.050 min
Lab File: r1542426.D
Acq: 31 Jan 2024 10:53 PM

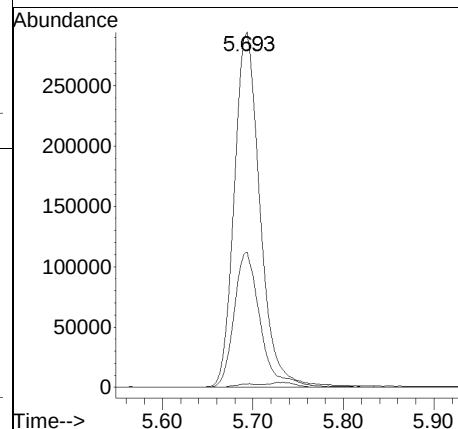
Tgt Ion	Ratio	Lower	Upper
56	100		
55	68.5	52.3	78.5
29	163.1	28.6	43.0

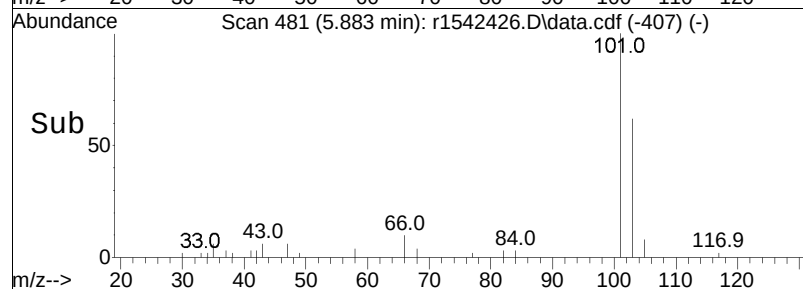
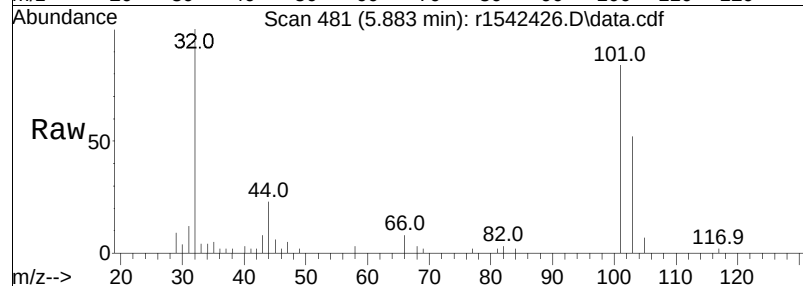
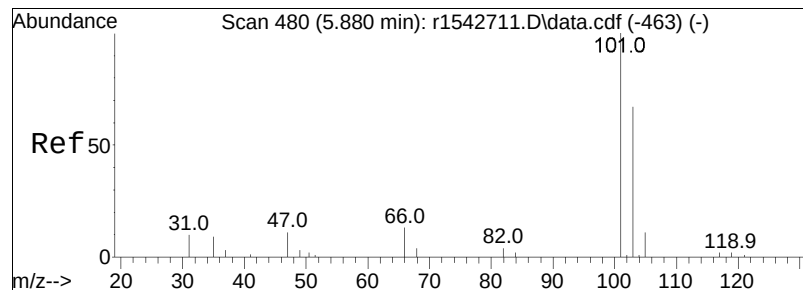




#19
acetone
Concen: 29.08 ppbV
RT: 5.693 min Scan# 424
Delta R.T. 0.050 min
Lab File: r1542426.D
Acq: 31 Jan 2024 10:53 PM

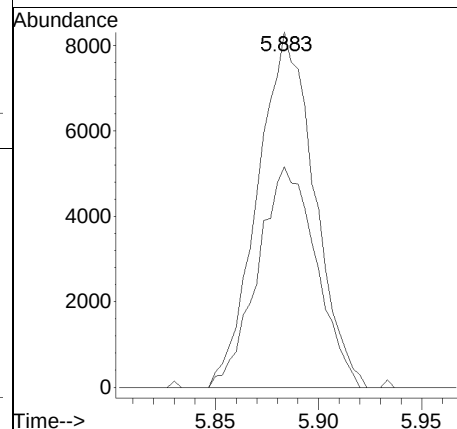
Tgt Ion:	43	58	57	Resp:	583948
Ion Ratio	100	38.2	1.0	Lower	Upper
				39.0	58.4#
				0.9	1.3

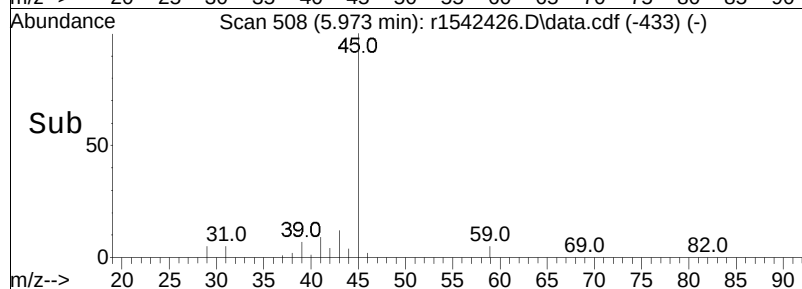
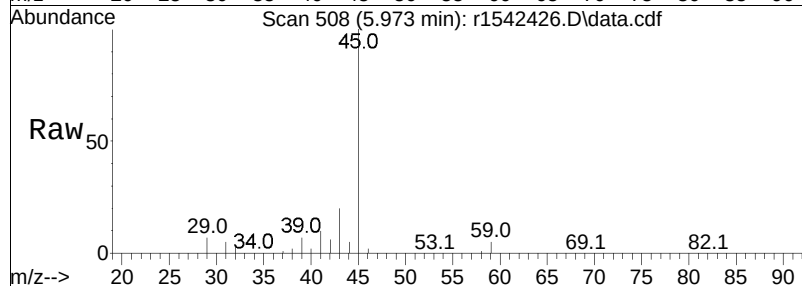
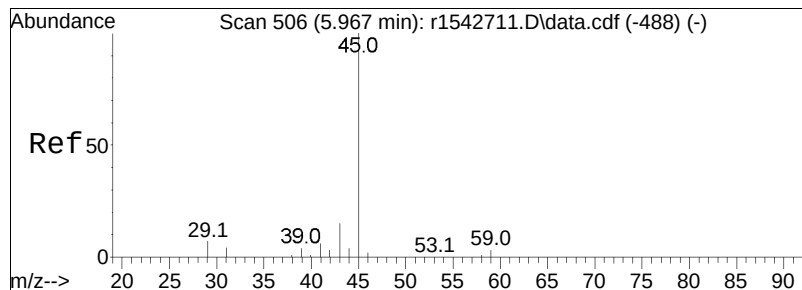




#21
trichlorofluoromethane
Concen: 0.53 ppbV
RT: 5.883 min Scan# 481
Delta R.T. 0.047 min
Lab File: r1542426.D
Acq: 31 Jan 2024 10:53 PM

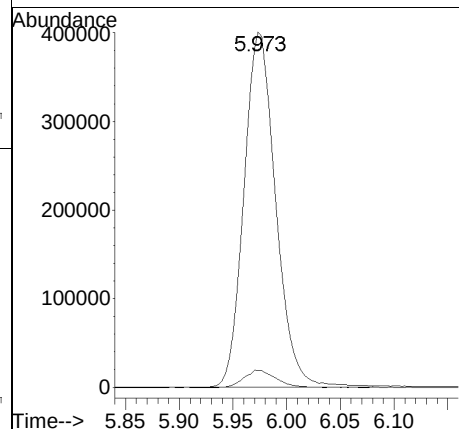
Tgt Ion	Ratio	Lower	Upper
101	100		
103	62.1	49.4	74.0

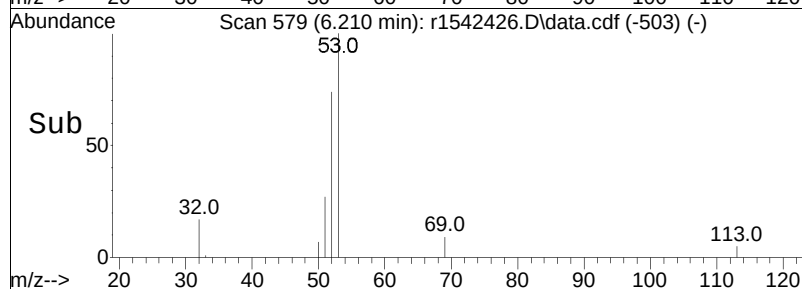
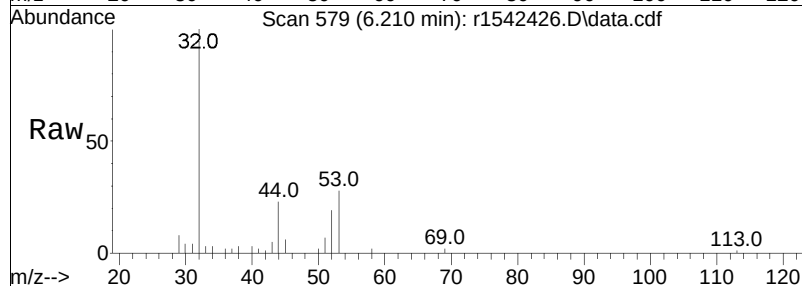
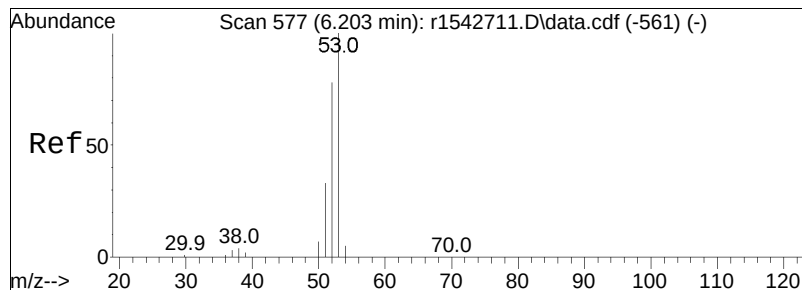




#22
isopropyl alcohol
Concen: 32.56 ppbV
RT: 5.973 min Scan# 508
Delta R.T. 0.050 min
Lab File: r1542426.D
Acq: 31 Jan 2024 10:53 PM

Tgt	Ion	Ratio	Lower	Upper
45	100			
59	4.7		4.6	6.8





#23

acrylonitrile

Concen: 0.37 ppbV

RT: 6.210 min Scan# 579

Delta R.T. 0.053 min

Lab File: r1542426.D

Acq: 31 Jan 2024 10:53 PM

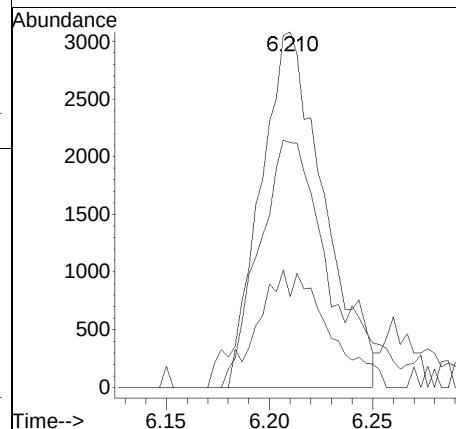
Tgt Ion: 53 Resp: 6721

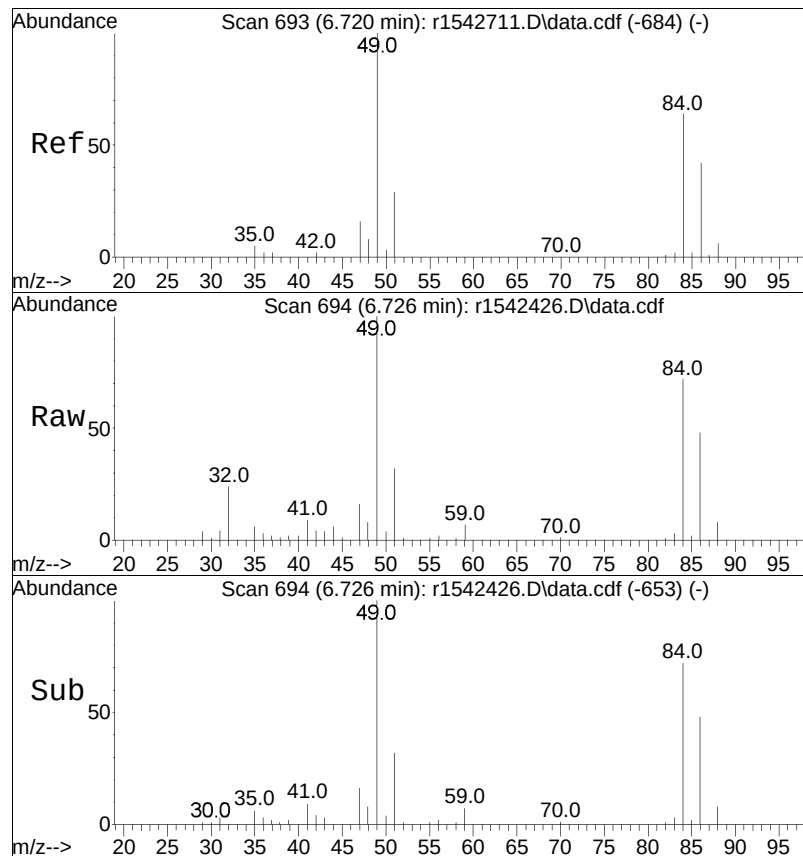
Ion Ratio Lower Upper

53 100

52 68.9 59.1 88.7

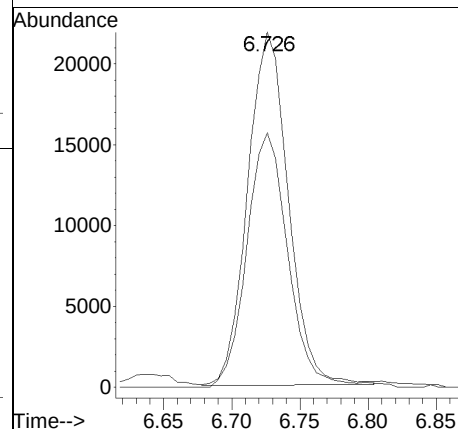
51 25.5 24.5 36.7

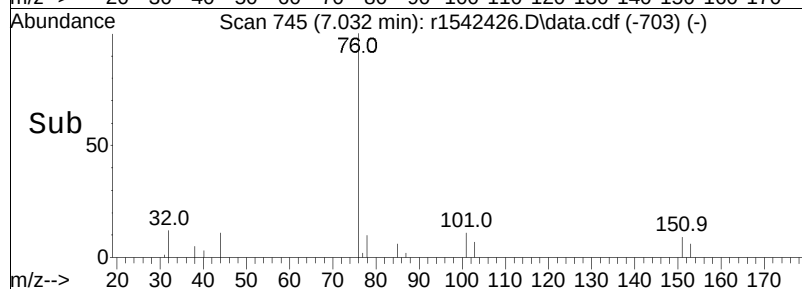
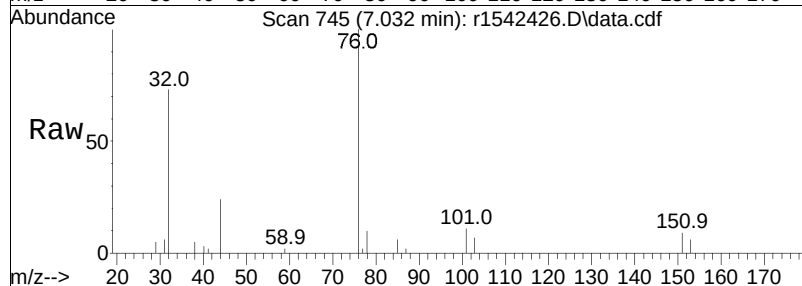
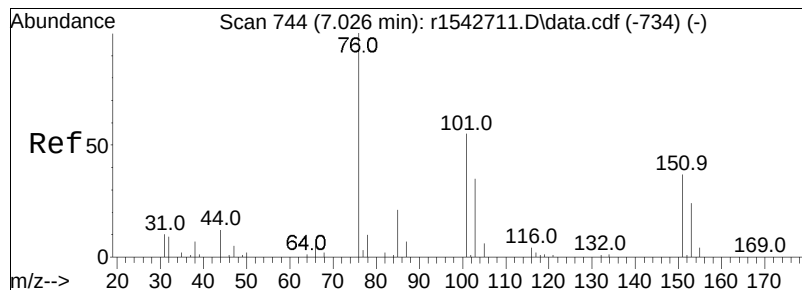




#28
 methylene chloride
 Concen: 1.65 ppbV
 RT: 6.726 min Scan# 694
 Delta R.T. 0.048 min
 Lab File: r1542426.D
 Acq: 31 Jan 2024 10:53 PM

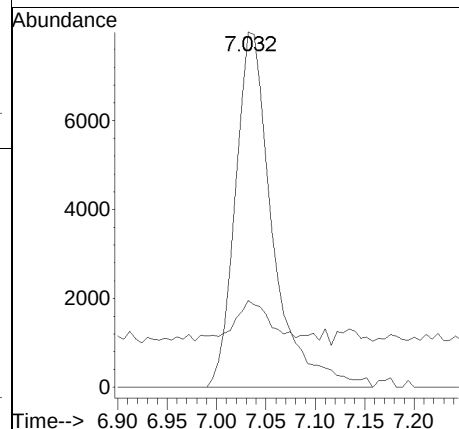
Tgt Ion:	49	84	Ratio	Lower	Upper
Resp:	45305				
Ion Ratio	100	71.7			
			61.2	91.8	

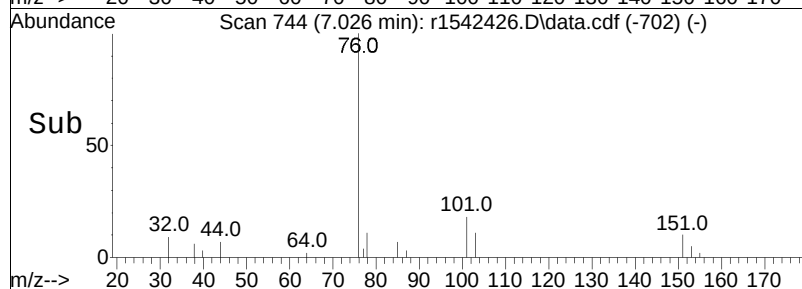
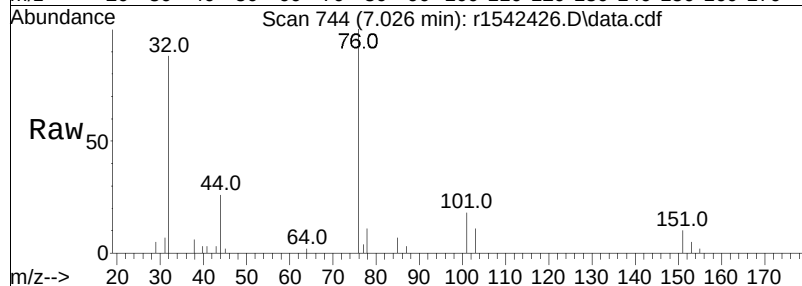
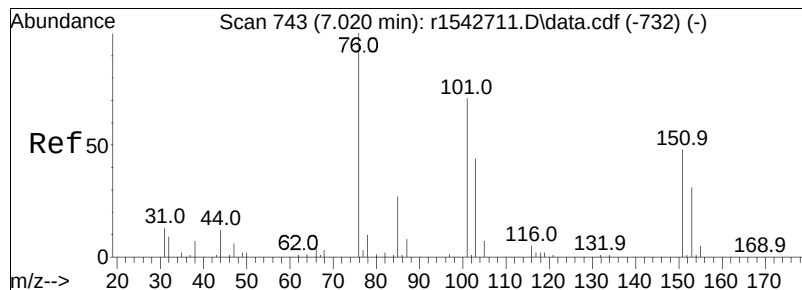




#30
carbon disulfide
Concen: 0.33 ppbV
RT: 7.032 min Scan# 745
Delta R.T. 0.054 min
Lab File: r1542426.D
Acq: 31 Jan 2024 10:53 PM

Tgt	Ion	Resp	Lower	Upper
76	100			
44	24.5		7.8	11.6#





#31

Freon 113

Concen: 0.06 ppbV

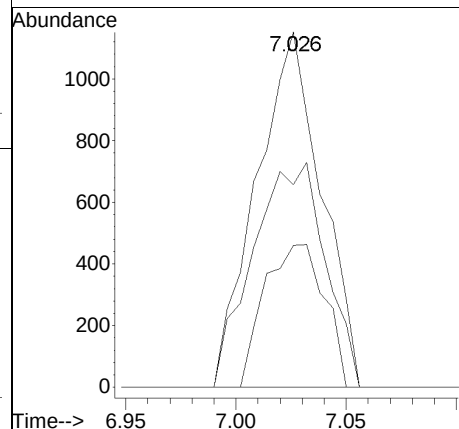
RT: 7.026 min Scan# 744

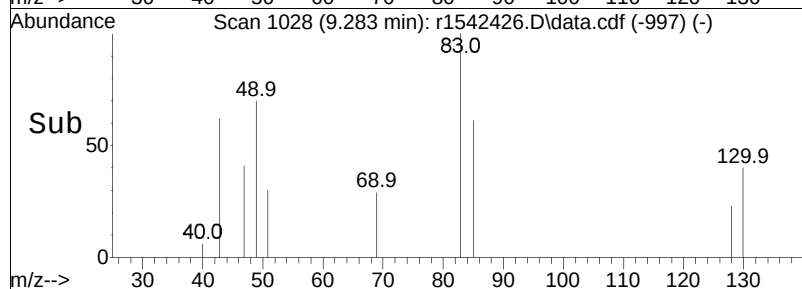
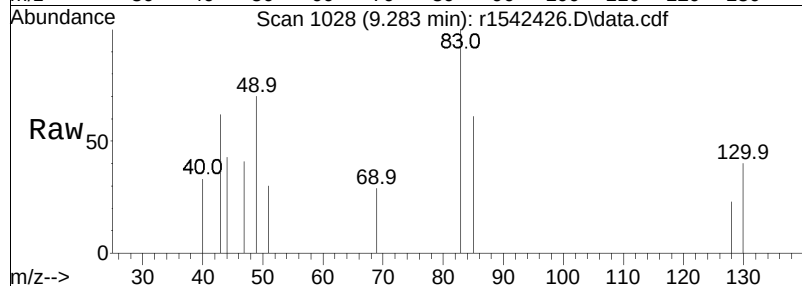
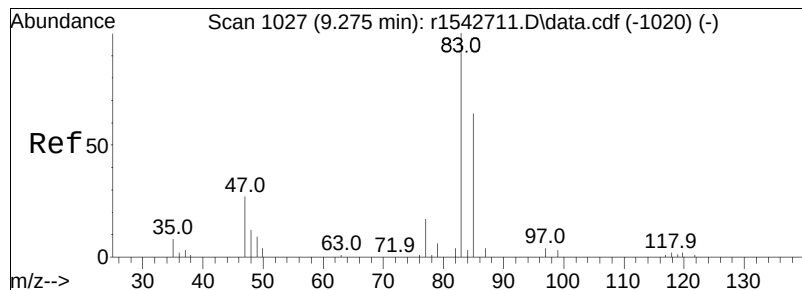
Delta R.T. 0.054 min

Lab File: r1542426.D

Acq: 31 Jan 2024 10:53 PM

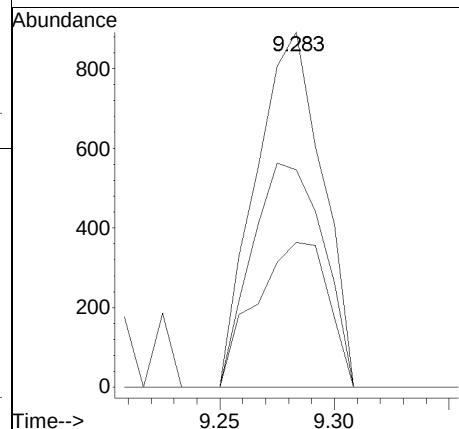
Tgt Ion	Ratio	Lower	Upper
101	100		
85	39.9	35.3	52.9
151	57.0	63.8	95.8

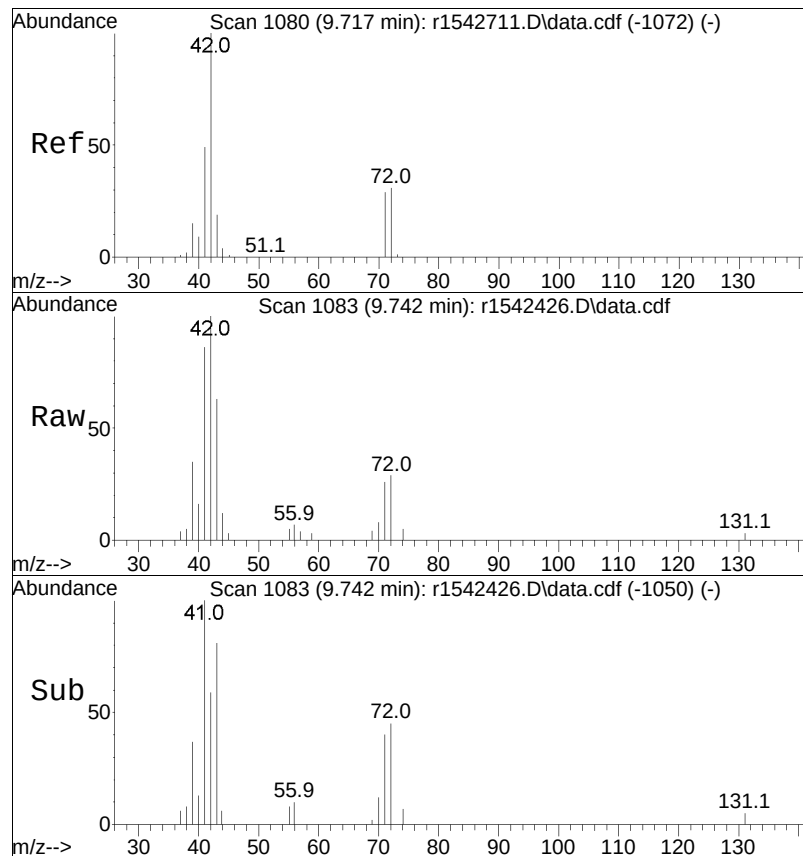




#39
chloroform
Concen: 0.04 ppbV
RT: 9.283 min Scan# 1028
Delta R.T. 0.058 min
Lab File: r1542426.D
Acq: 31 Jan 2024 10:53 PM

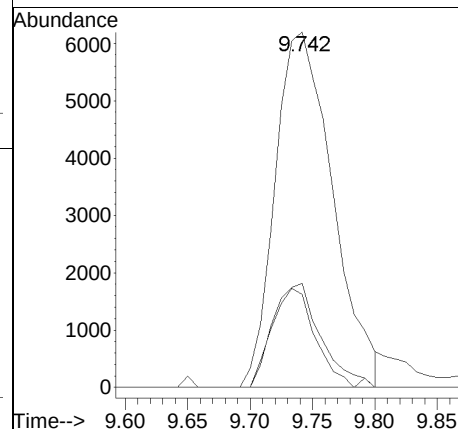
Tgt	Ion	Ratio	Lower	Upper
83	100			
85	61.2	51.5	77.3	
47	40.8	15.9	23.9	

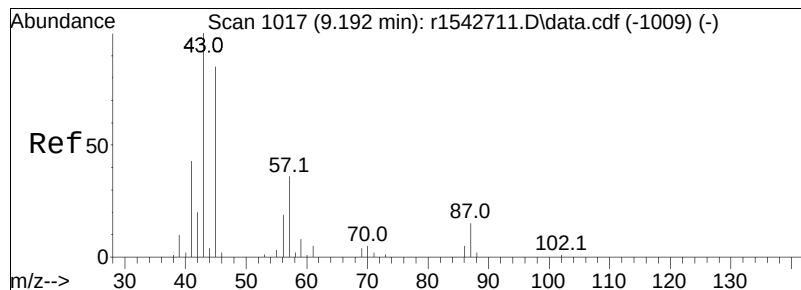




#40
Tetrahydrofuran
Concen: 0.67 ppbV m
RT: 9.742 min Scan# 1083
Delta R.T. 0.075 min
Lab File: r1542426.D
Acq: 31 Jan 2024 10:53 PM

Tgt Ion:	42	Resp:	19867
Ion Ratio	Lower	Upper	
42	100		
71	26.2	30.6	46.0#
72	29.3	32.5	48.7#





#44

hexane

Concen: 0.60 ppbV

RT: 9.192 min Scan# 1017

Delta R.T. 0.050 min

Lab File: r1542426.D

Acq: 31 Jan 2024 10:53 PM

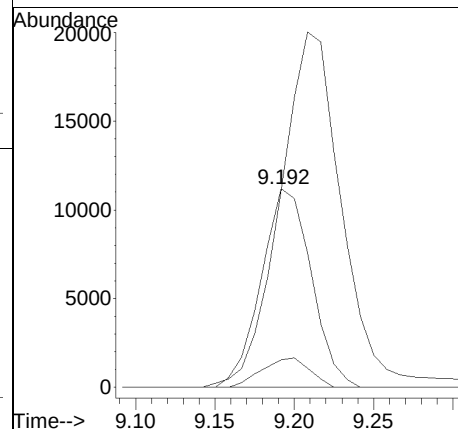
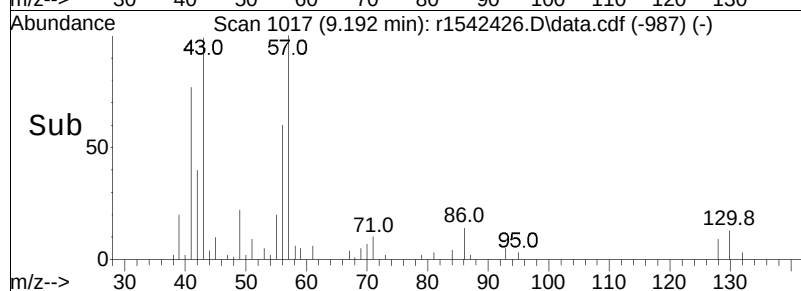
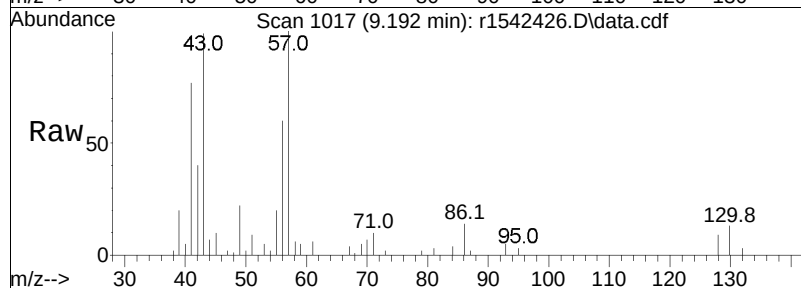
Tgt Ion: 57 Resp: 24682

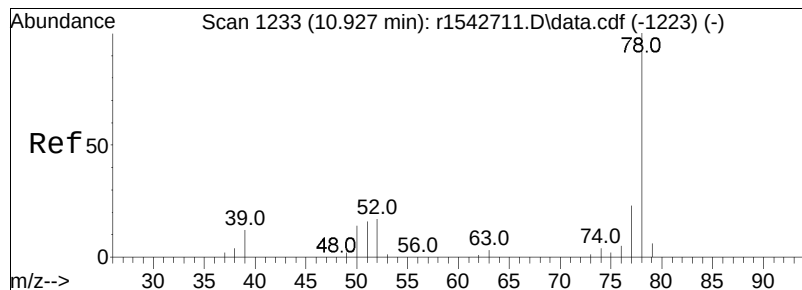
Ion Ratio Lower Upper

57 100

43 98.9 146.8 220.2#

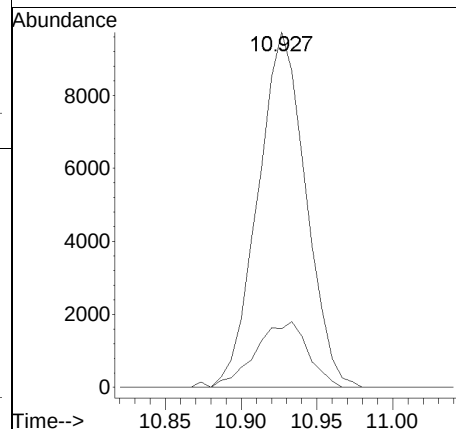
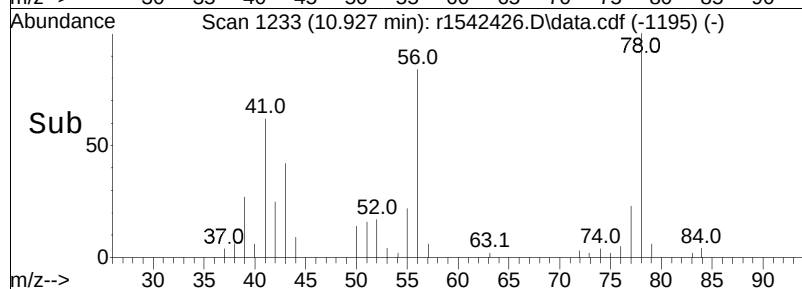
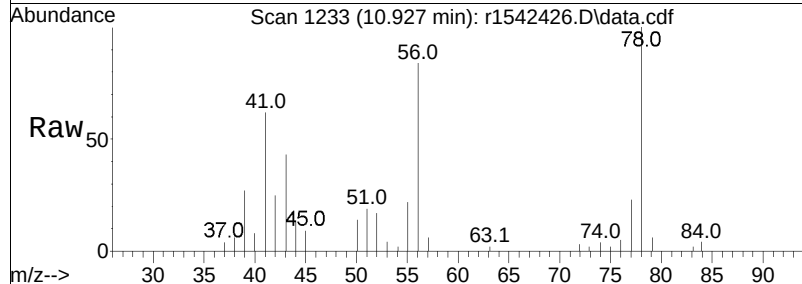
86 13.9 12.7 19.1

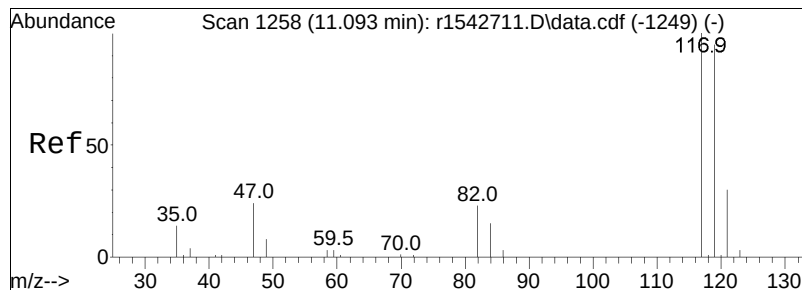




#50
benzene
Concen: 0.28 ppbV
RT: 10.927 min Scan# 1233
Delta R.T. 0.053 min
Lab File: r1542426.D
Acq: 31 Jan 2024 10:53 PM

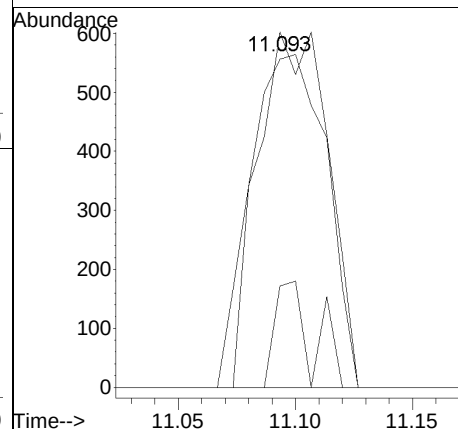
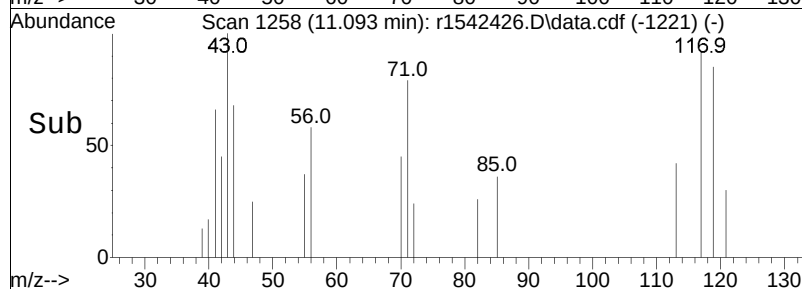
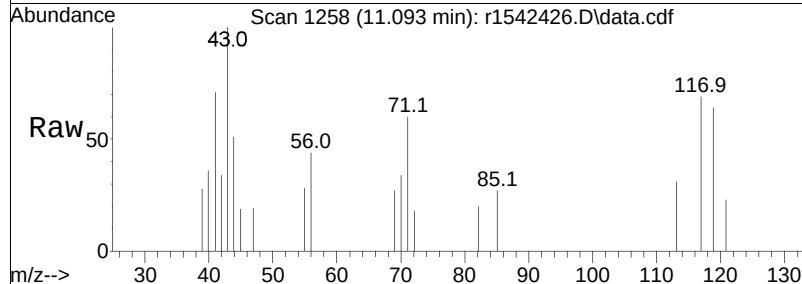
Tgt Ion	Ratio	Lower	Upper
78	100		
52	16.5	14.1	21.1

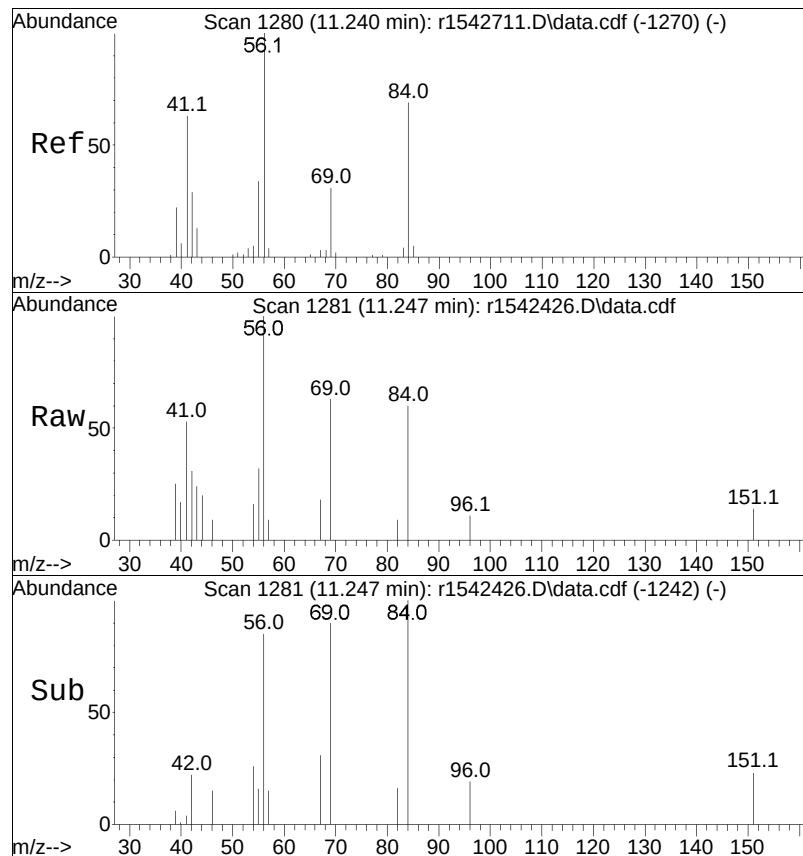




#52
 carbon tetrachloride
 Concen: 0.05 ppbV
 RT: 11.093 min Scan# 1258
 Delta R.T. 0.047 min
 Lab File: r1542426.D
 Acq: 31 Jan 2024 10:53 PM

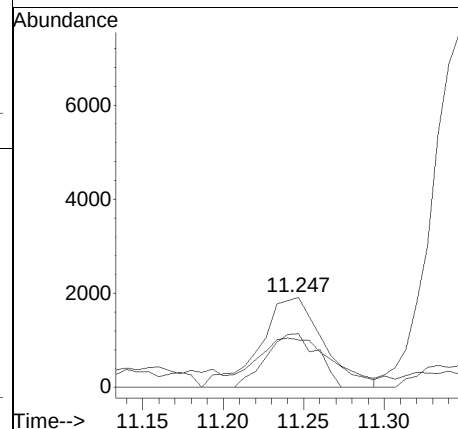
Tgt Ion	Ratio	Lower	Upper
117	100		
119	92.4	77.1	115.7
82	28.6	17.2	25.8

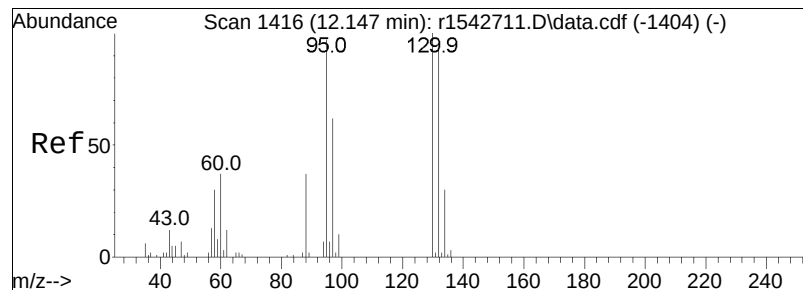




#53
cyclohexane
Concen: 0.12 ppbV
RT: 11.247 min Scan# 1281
Delta R.T. 0.060 min
Lab File: r1542426.D
Acq: 31 Jan 2024 10:53 PM

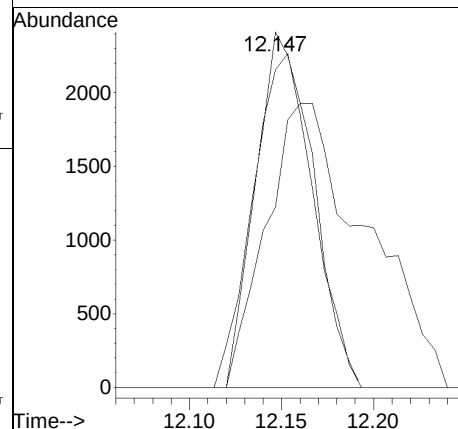
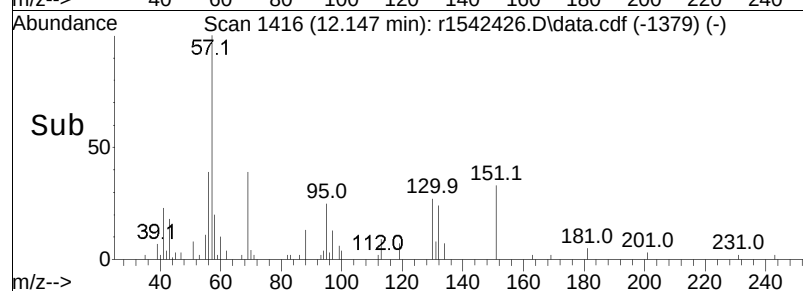
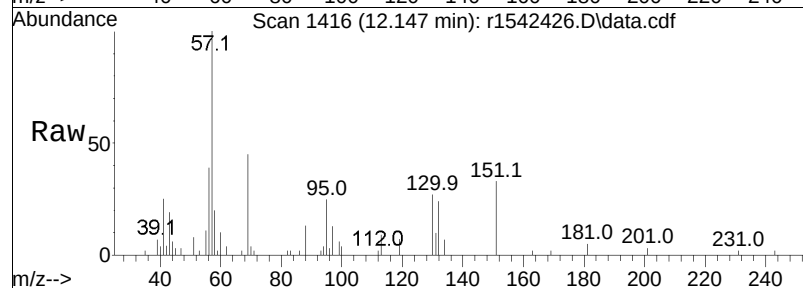
Tgt	Ion: 56	Resp:	5267
Ion	Ratio	Lower	Upper
56	100		
84	59.9	60.2	90.2#
41	52.8	33.5	50.3#

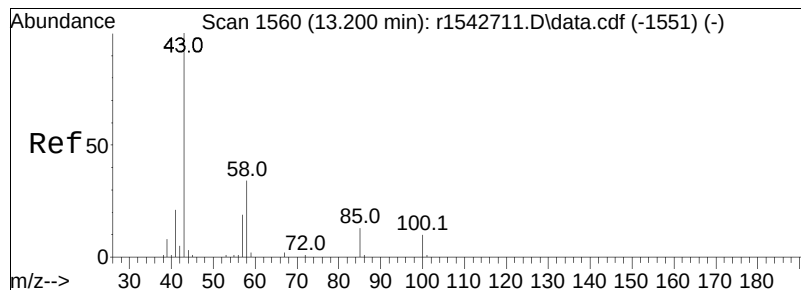




#59
trichloroethene
Concen: 0.18 ppbV
RT: 12.147 min Scan# 1416
Delta R.T. 0.047 min
Lab File: r1542426.D
Acq: 31 Jan 2024 10:53 PM

Tgt Ion	Ratio	Lower	Upper
130	100		
132	89.3	74.7	112.1
97	50.7	46.6	70.0





#64

4-methyl-2-pentanone

Concen: 0.18 ppbV m

RT: 13.217 min Scan# 1562

Delta R.T. 0.067 min

Lab File: r1542426.D

Acq: 31 Jan 2024 10:53 PM

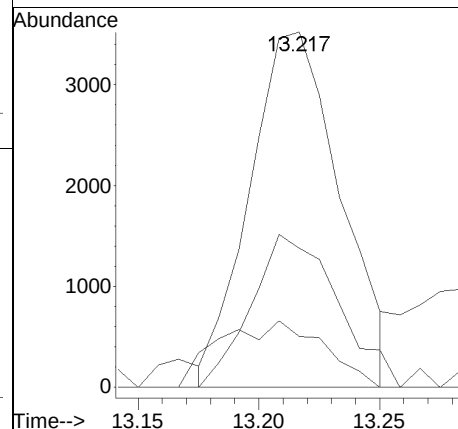
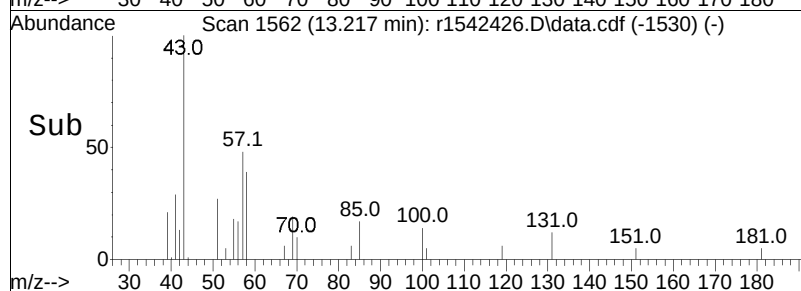
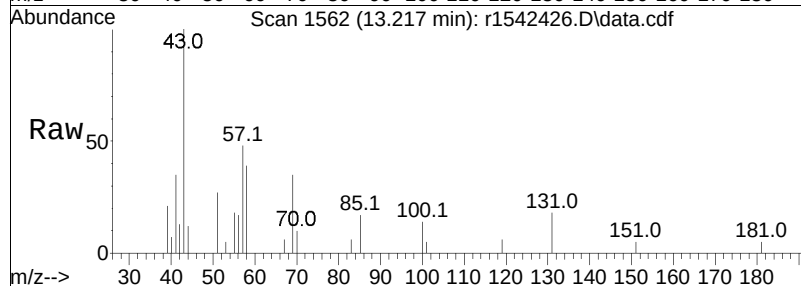
Tgt Ion: 43 Resp: 9205

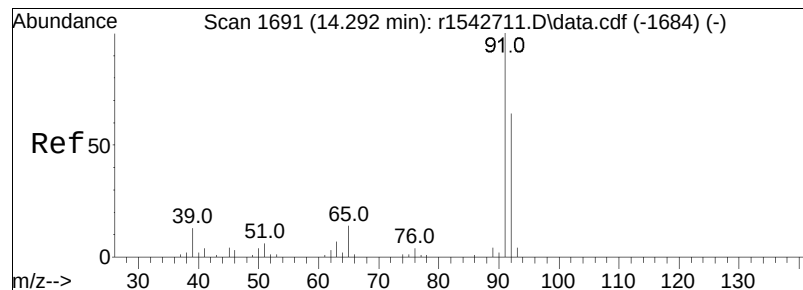
Ion Ratio Lower Upper

43 100

58 39.2 39.5 59.3#

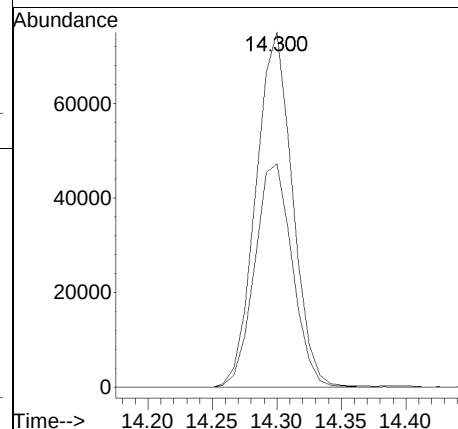
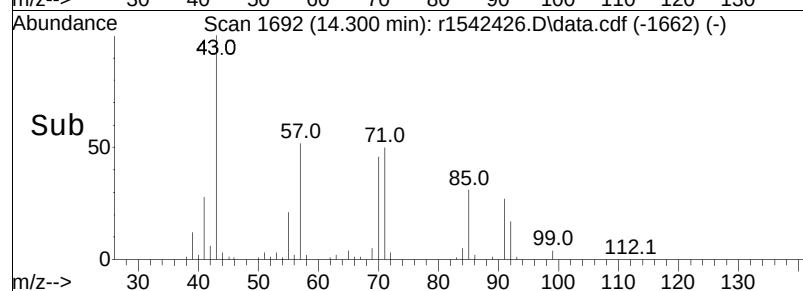
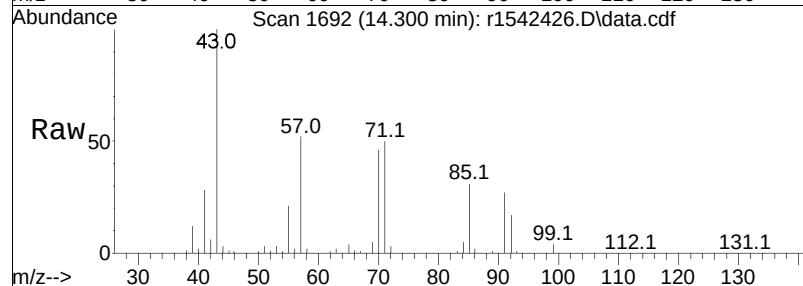
100 14.3 11.8 17.6

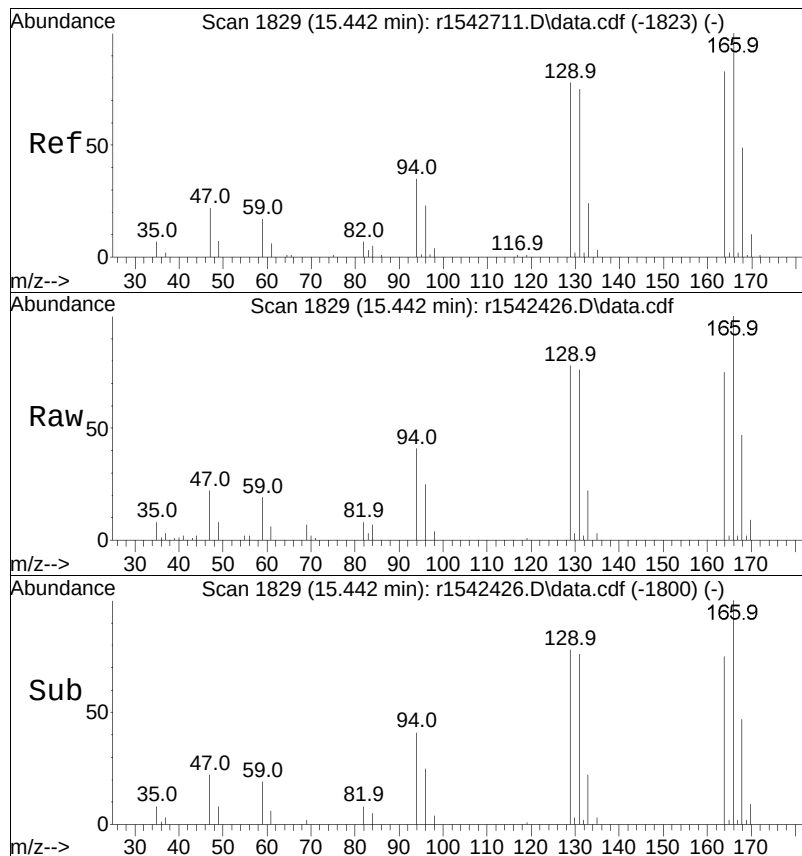




#68
toluene
Concen: 1.19 ppbV
RT: 14.300 min Scan# 1692
Delta R.T. 0.050 min
Lab File: r1542426.D
Acq: 31 Jan 2024 10:53 PM

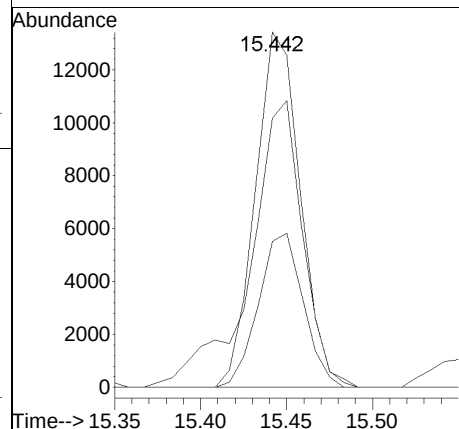
Tgt	Ion	Resp	Lower	Upper
91	100			
92	62.9	51.0	76.4	

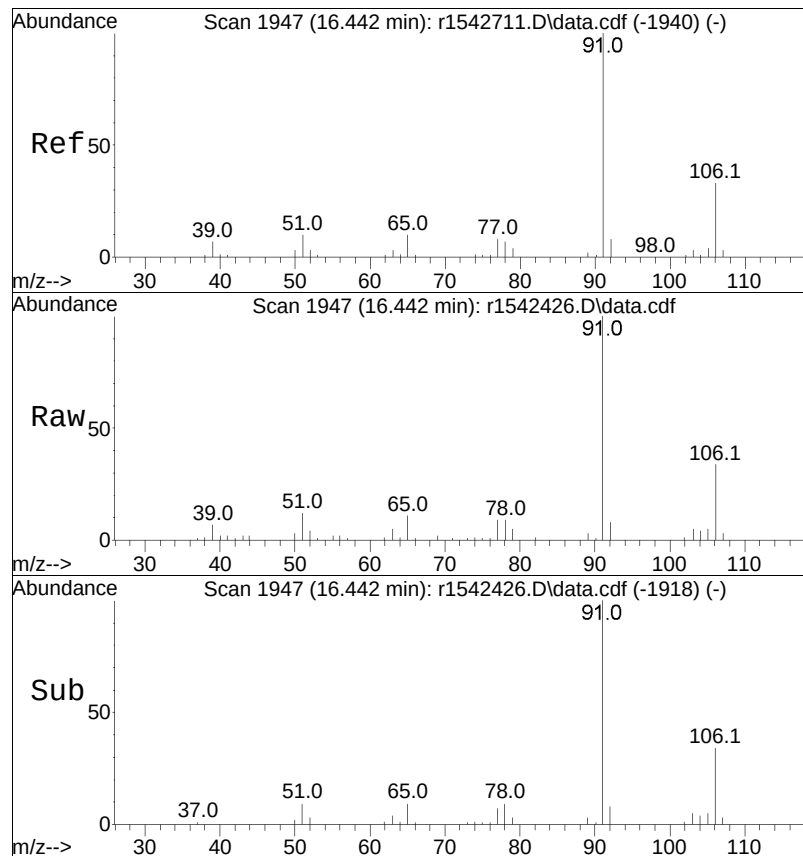




#78
 tetrachloroethene
 Concen: 0.49 ppbV
 RT: 15.442 min Scan# 1829
 Delta R.T. 0.042 min
 Lab File: r1542426.D
 Acq: 31 Jan 2024 10:53 PM

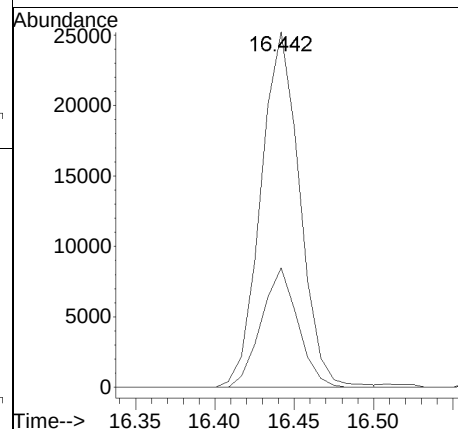
Tgt	Ion:166	Resp:	24437
Ion	Ratio	Lower	Upper
166	100		
131	75.8	55.6	83.4
94	41.1	25.4	38.2#

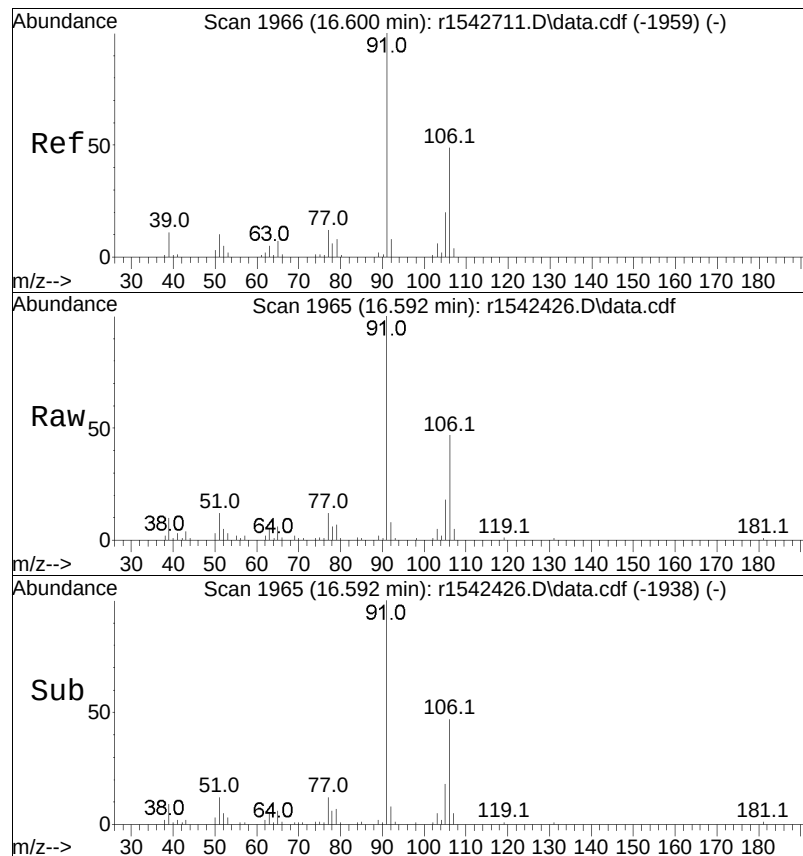




#81
ethylbenzene
Concen: 0.27 ppbV
RT: 16.442 min Scan# 1947
Delta R.T. 0.042 min
Lab File: r1542426.D
Acq: 31 Jan 2024 10:53 PM

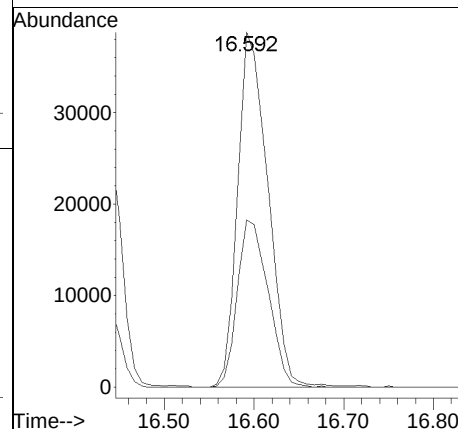
Tgt Ion	Ratio	Lower	Upper
91	100		
106	33.6	27.7	41.5

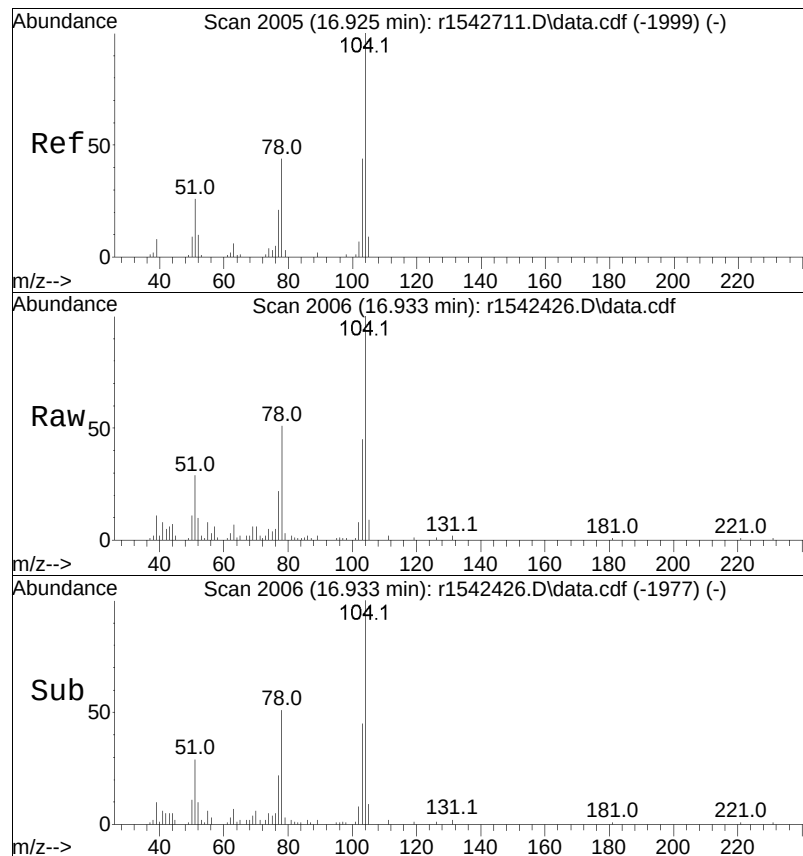




#83
 m+p-xylene
 Concen: 0.72 ppbV
 RT: 16.592 min Scan# 1965
 Delta R.T. 0.025 min
 Lab File: r1542426.D
 Acq: 31 Jan 2024 10:53 PM

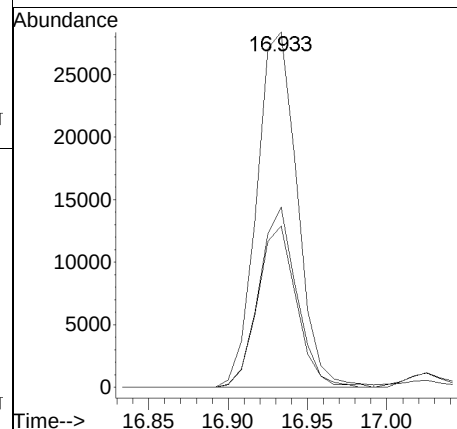
Tgt	Ion	Resp	Lower	Upper
91	100	91178		
106	47.1	42.7	64.1	

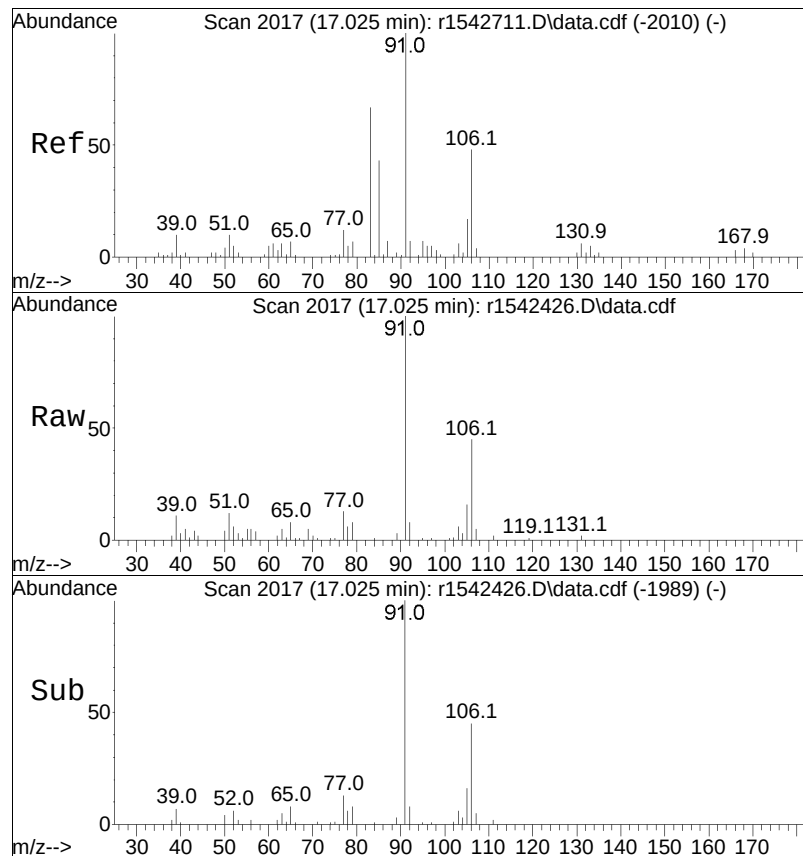




#85
styrene
Concen: 0.49 ppbV
RT: 16.933 min Scan# 2006
Delta R.T. 0.042 min
Lab File: r1542426.D
Acq: 31 Jan 2024 10:53 PM

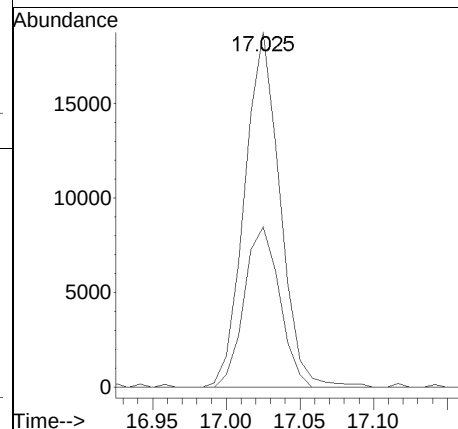
Tgt Ion	Ratio	Lower	Upper
104	100		
103	45.4	34.9	52.3
78	50.8	36.2	54.4

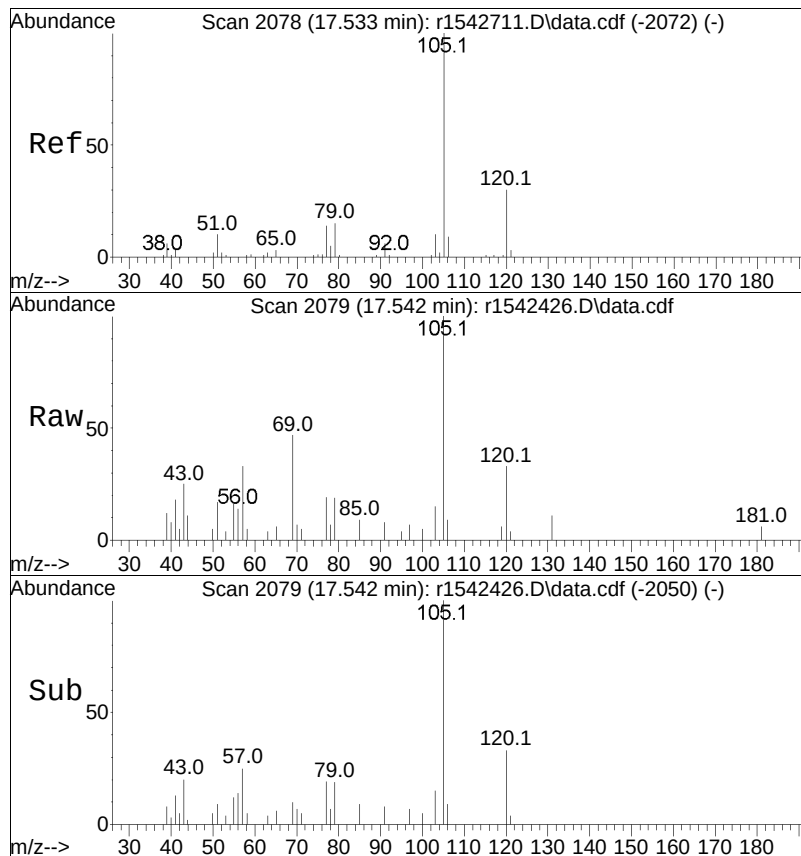




#87
 o-xylene
 Concen: 0.25 ppbV
 RT: 17.025 min Scan# 2017
 Delta R.T. 0.033 min
 Lab File: r1542426.D
 Acq: 31 Jan 2024 10:53 PM

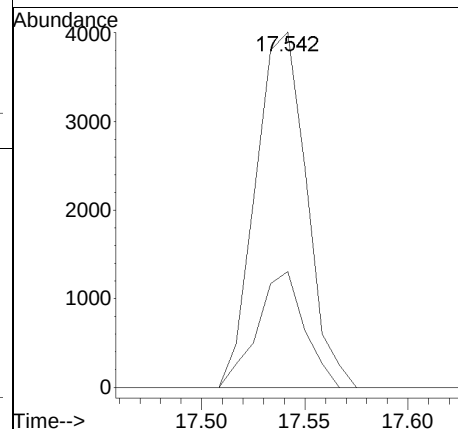
Tgt Ion	91	106	Ratio	Lower	Upper
91	100				
106	45.2		40.0	60.0	

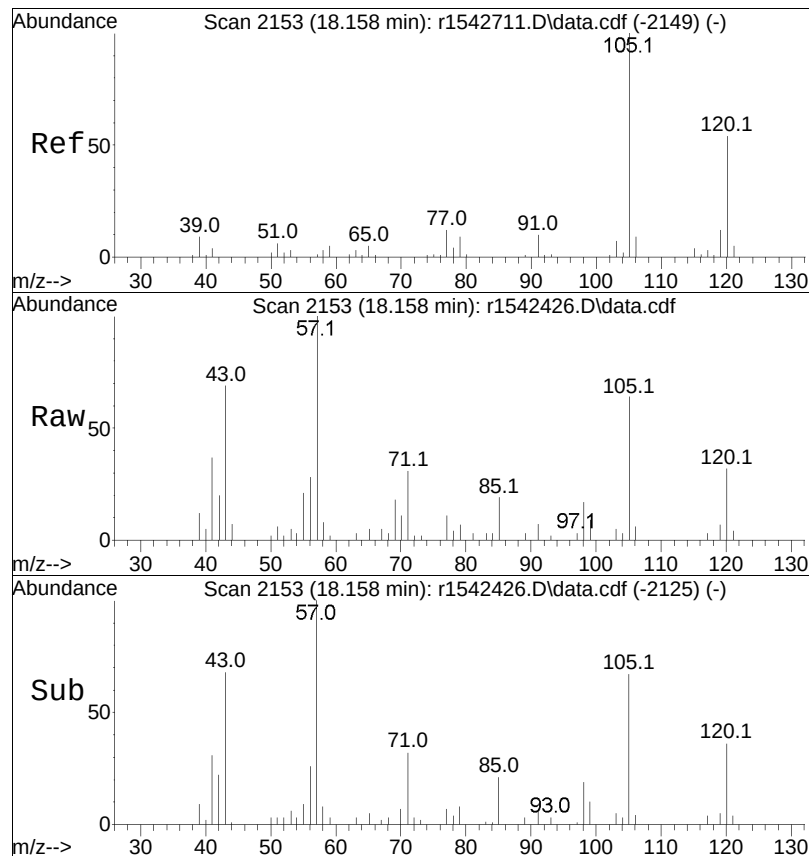




#91
 isopropylbenzene
 Concen: 0.04 ppbV
 RT: 17.542 min Scan# 2079
 Delta R.T. 0.042 min
 Lab File: r1542426.D
 Acq: 31 Jan 2024 10:53 PM

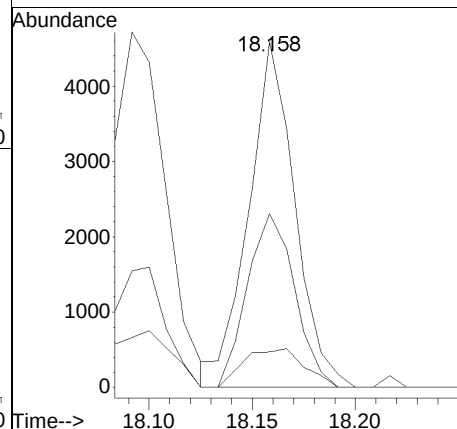
Tgt Ion	Ratio	Lower	Upper
105	100		
120	32.6	26.2	39.4

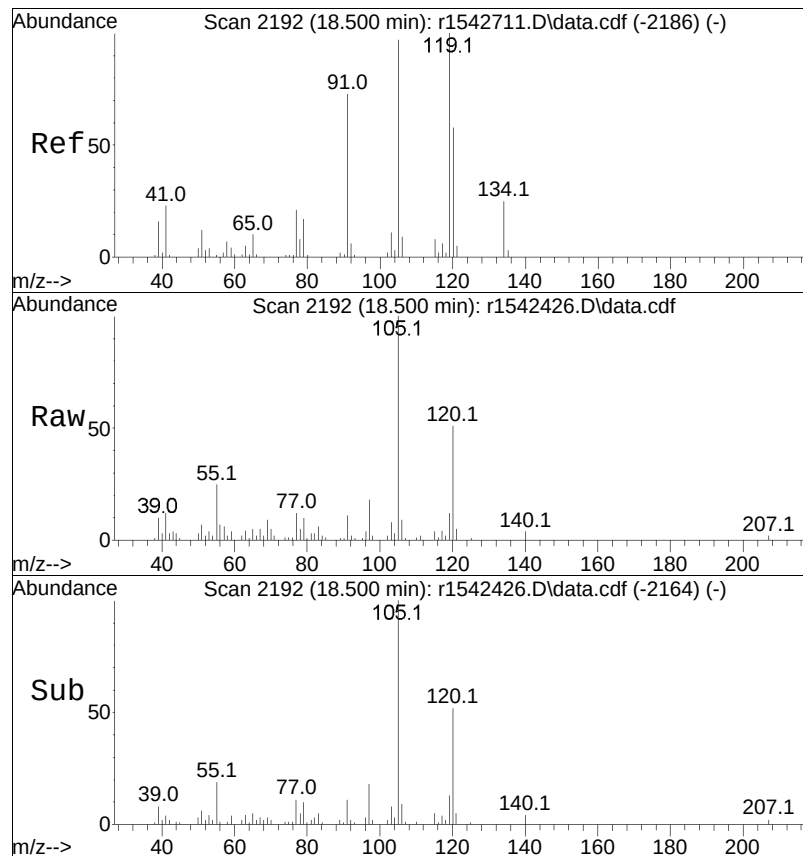




#97
 1,3,5-trimethylbenzene
 Concen: 0.05 ppbV
 RT: 18.158 min Scan# 2153
 Delta R.T. 0.033 min
 Lab File: r1542426.D
 Acq: 31 Jan 2024 10:53 PM

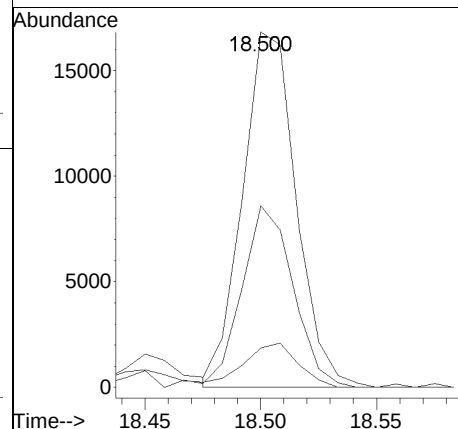
Tgt Ion	105	Resp	7149
Ion Ratio	Lower	Upper	
105	100		
120	50.3	46.0	69.0
91	10.2	7.5	11.3

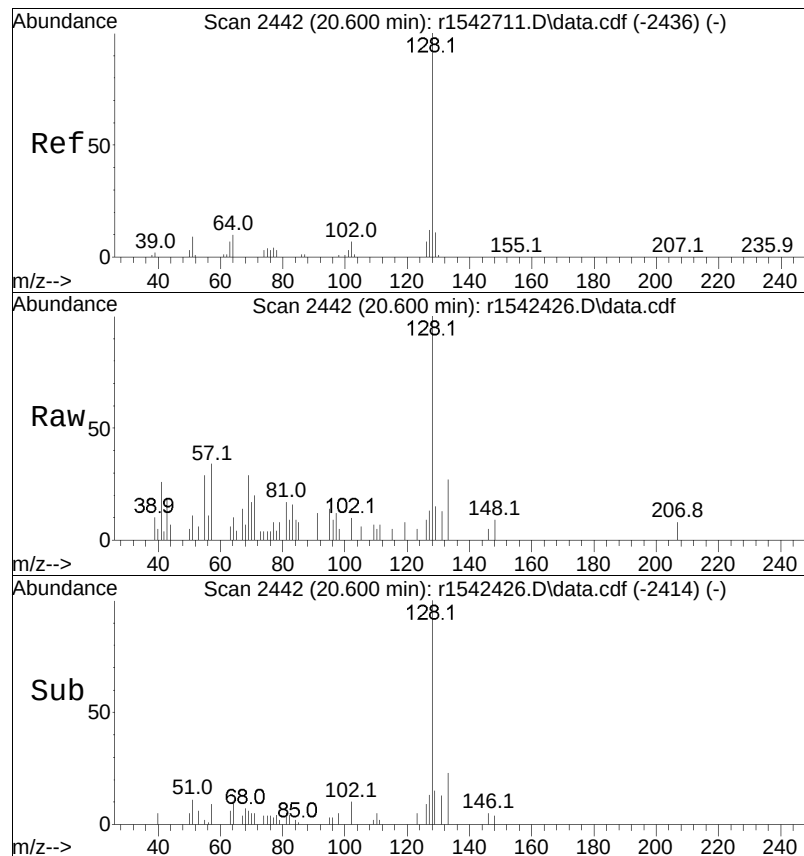




#99
 1,2,4-trimethylbenzene
 Concen: 0.19 ppbV m
 RT: 18.500 min Scan# 2192
 Delta R.T. 0.033 min
 Lab File: r1542426.D
 Acq: 31 Jan 2024 10:53 PM

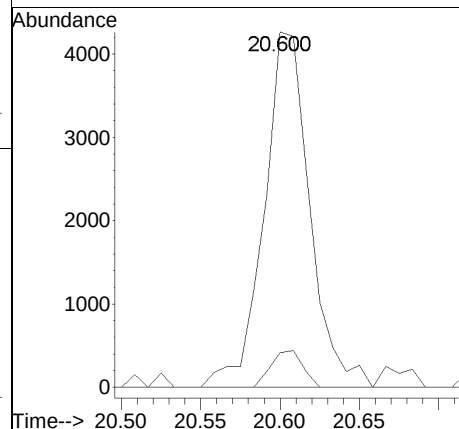
Tgt Ion	Ratio	Lower	Upper
105	100		
120	51.1	51.8	77.6#
91	11.1	58.3	87.5#





#116
 naphthalene
 Concen: 0.04 ppbV
 RT: 20.600 min Scan# 2442
 Delta R.T. 0.033 min
 Lab File: r1542426.D
 Acq: 31 Jan 2024 10:53 PM

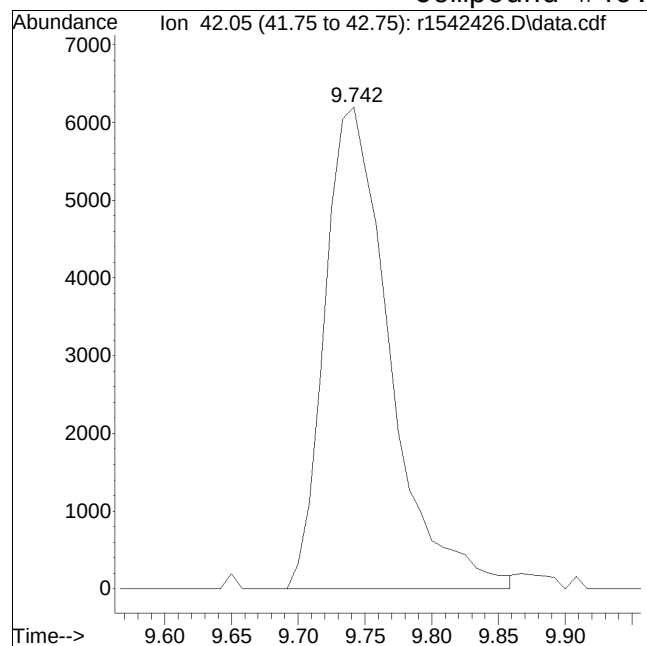
Tgt Ion	Ratio	Lower	Upper
128	100		
102	9.8	5.4	8.2#



Manual Integration Report

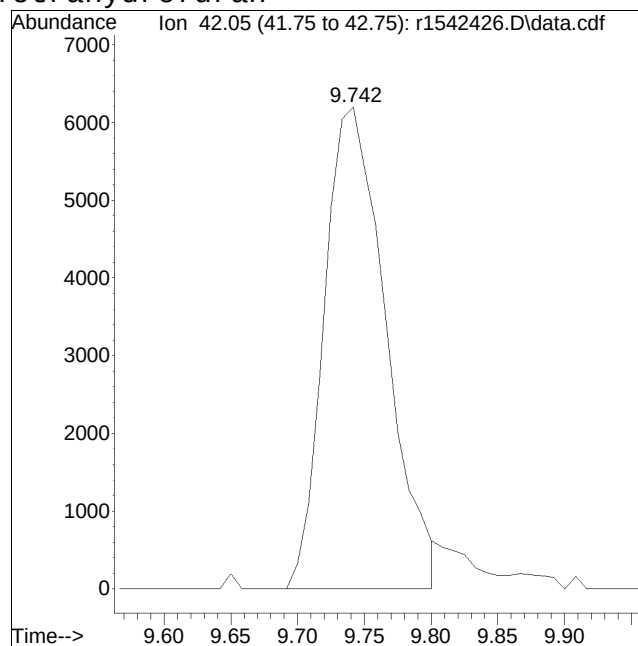
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1542426.D Operator : AIRLAB15:JMB
Date Inj'd : 1/31/2020 0:0: 3 Instrument :
Sample : WG1880230-5,3,250,250 Quant Date : 2/1/2024 6:51 am

Compound #40: Tetrahydrofuran



Original Peak Response = 21018

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

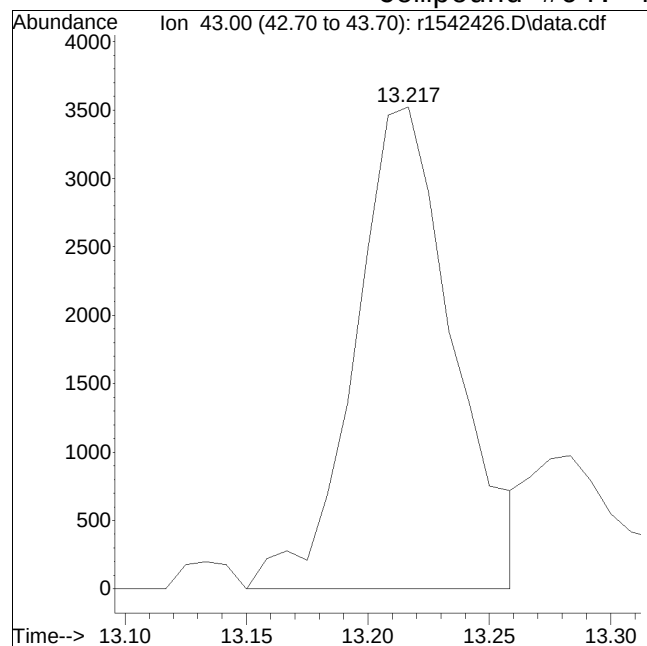


Manual Peak Response = 19867 M6

Manual Integration Report

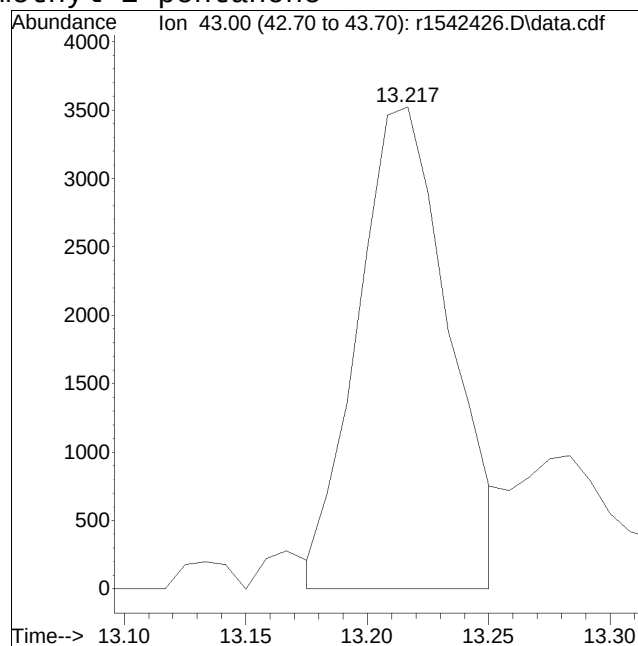
Data Path : 0:\Forensics\Data\Airlab150Method : TFS15_231120.M
Data File : r1542426.D Operator : AIRLAB15:JMB
Date Inj'd : 1/31/2020 0:0: 3 Instrument :
Sample : WG1880230-5,3,250,250 Quant Date : 2/1/2024 6:51 am

Compound #64: 4-methyl-2-pentanone



Original Peak Response = 9920

M4 = Poor automated baseline construction.

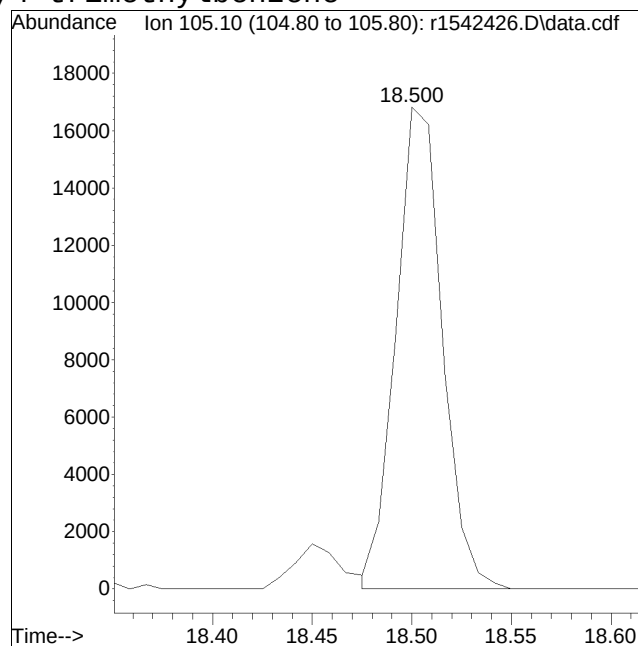
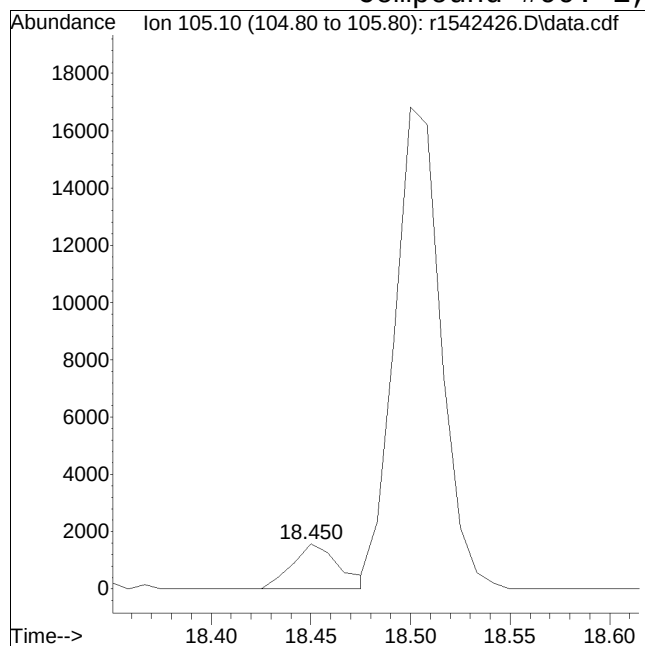


Manual Peak Response = 9205 M4

Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1542426.D Operator : AIRLAB15:JMB
Date Inj'd : 1/31/2020 0:0: 3 Instrument :
Sample : WG1880230-5,3,250,250 Quant Date : 2/1/2024 6:51 am

Compound #99: 1,2,4-trimethylbenzene



Original Peak Response = 2611

Manual Peak Response = 27210 M3

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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\02\0201T\
 Data File : r1738322.D
 Acq On : 2 Feb 2024 8:23 AM
 Operator : AIRLAB17:JMB
 Sample : WG1880708-5D,3,125.00,250
 Misc : WG1880708,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 02 09:02:19 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\02\0201T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\02\0201T\r1738297.D
 Sub List : PADEP-T015 - .

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

Internal Standards						
1) bromochloromethane	8.833	49	344138	10.000	ppbV	0.00
Standard Area = 342891			Recovery = 100.36%			
43) 1,4-difluorobenzene	11.077	114	923060	10.000	ppbV	0.00
Standard Area = 918799			Recovery = 100.46%			
67) chlorobenzene-D5	15.842	54	131123	10.000	ppbV	0.00
Standard Area = 130233			Recovery = 100.68%			

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	3.868	85	8525	0.261	ppbV	97
6) chloromethane	4.024	50	4989	0.288	ppbV	96
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	4.372	54	664	0.043	ppbV #	77
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
17) vinyl bromide	0.000		0	N.D.		
18) acrolein	5.307	56	824	0.096	ppbV #	13
19) acetone	5.447	43	57660M6	2.752	ppbV	
21) trichlorofluoromethane	5.630	101	3183	0.123	ppbV	91
22) isopropyl alcohol	5.713	45	19202	0.705	ppbV #	97
23) acrylonitrile	0.000		0	N.D.		
26) 1,1-dichloroethene	0.000		0	N.D.		
28) methylene chloride	6.456	49	4161	0.180	ppbV	98
29) 3-chloropropene	6.504		0	N.D.		
30) carbon disulfide	6.750		0	N.D.		
31) Freon 113	6.750	101	1293	0.039	ppbV	90
32) trans-1,2-dichloroethene	7.492	61	865	0.036	ppbV	91
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	7.742		0	N.D.		
37) cis-1,2-dichloroethene	0.000		0	N.D.		
39) chloroform	8.992		0	N.D.		
40) Tetrahydrofuran	9.458	42	1738	0.073	ppbV #	87
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	8.908	57	4811	0.158	ppbV #	8
48) 1,1,1-trichloroethane	0.000		0	N.D.		
50) benzene	10.643	78	198277	2.898	ppbV	98
52) carbon tetrachloride	10.817		0	N.D.		
53) cyclohexane	10.970	56	1029	0.032	ppbV #	73

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab17\2024\02\0201T\
 Data File : r1738322.D
 Acq On : 2 Feb 2024 8:23 AM
 Operator : AIRLAB17:JMB
 Sample : WG1880708-5D,3,125.00,250
 Misc : WG1880708,ICAL20743
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 02 09:02:19 2024
 Quant Method : 0:\Forensics\Data\Airlab17\2024\02\0201T\TFS17_240107.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 08 15:04:31 2024
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab17\2024\02\0201T\r1738297.D
 Sub List : PADEP-T015 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) 1,2-dichloropropane	0.000		0		N.D.	
57) bromodichloromethane	11.830		0		N.D.	
58) 1,4-dioxane	0.000		0		N.D.	
59) trichloroethene	0.000		0		N.D.	
61) methyl methacrylate	12.143		0		N.D.	
64) 4-methyl-2-pentanone	0.000		0		N.D.	d
66) 1,1,2-trichloroethane	0.000		0		N.D.	
68) toluene	14.050	91	93835	1.302	ppbV	97
71) 1,3-dichloropropane	14.050		0		N.D.	
74) dibromochloromethane	0.000		0		N.D.	
75) 1,2-dibromoethane	0.000		0		N.D.	
78) tetrachloroethene	15.233		0		N.D.	
80) chlorobenzene	0.000		0		N.D.	
81) ethylbenzene	16.242	91	5118	0.056	ppbV	91
83) m+p-xylene	16.392	91	19592	0.272	ppbV	96
84) bromoform	0.000		0		N.D.	
85) styrene	16.733		0		N.D.	
86) 1,1,2,2-tetrachloroethane	0.000		0		N.D.	
87) o-xylene	16.825	91	6164	0.086	ppbV	91
91) isopropylbenzene	17.342		0		N.D.	
97) 1,3,5-trimethylbenzene	17.967		0		N.D.	
99) 1,2,4-trimethylbenzene	18.317	105	5073	0.060	ppbV #	59
101) Benzyl Chloride	18.317		0		N.D.	
103) 1,4-dichlorobenzene	18.508		0		N.D.	
107) 1,2-dichlorobenzene	18.792		0		N.D.	
115) 1,2,4-trichlorobenzene	0.000		0		N.D.	
116) naphthalene	20.508		0		N.D.	

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

Sub List : PADEP-T015 - .ata\Airlab17\2024\02\0201T\r1738297.D

Data Path : 0:\Forensics\Data\Airlab17\2024\02\0201T\

Data File : r1738322.D

Acq On : 2 Feb 2024 8:23 AM

Operator : AIRLAB17:JMB

Sample : WG1880708-5D, 3,125.00,250

Misc : WG1880708,ICAL20743

ALS Vial : 0 Sample Multiplier: 1

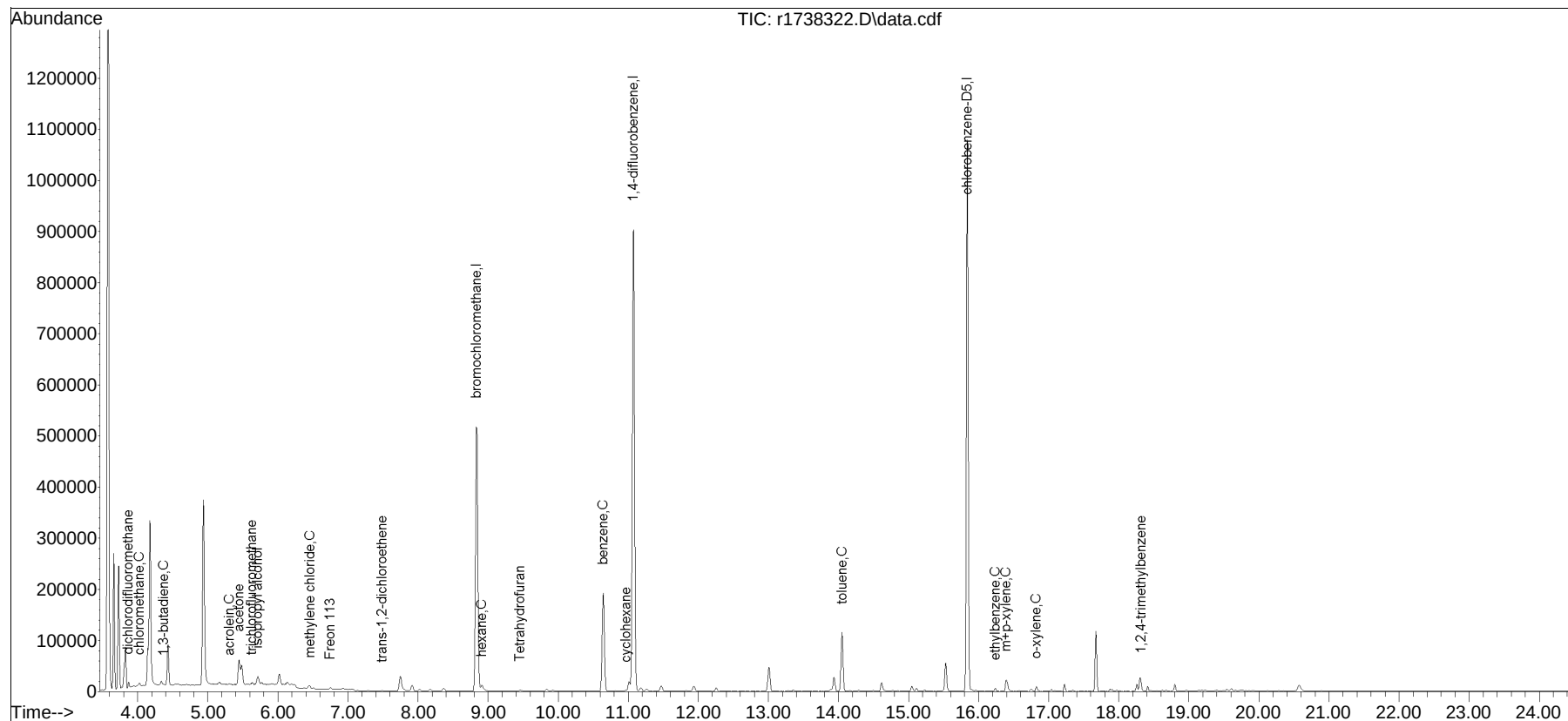
Quant Time: Feb 02 09:02:19 2024

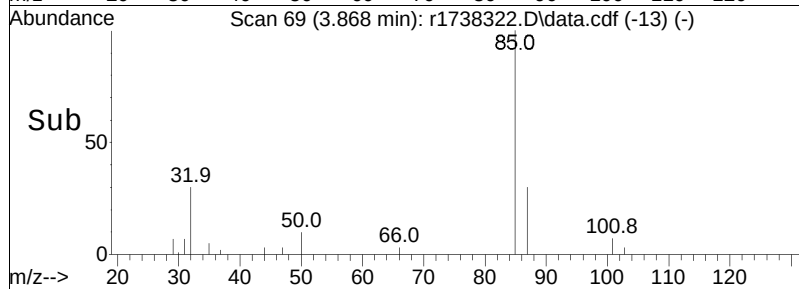
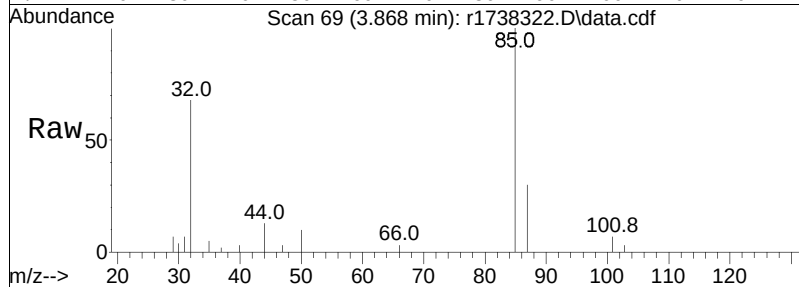
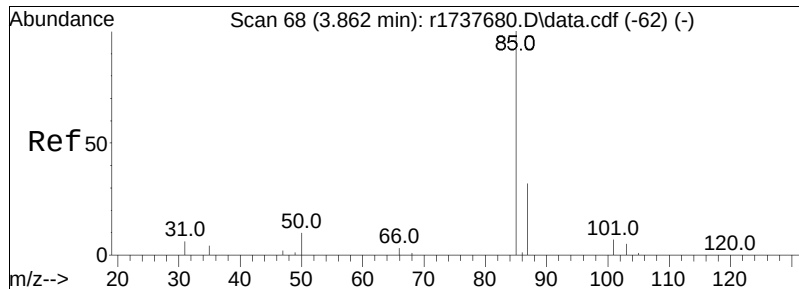
Quant Method : 0:\Forensics\Data\Airlab17\2024\02\0201T\TFS17_240107.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

QLast Update : Mon Jan 08 15:04:31 2024

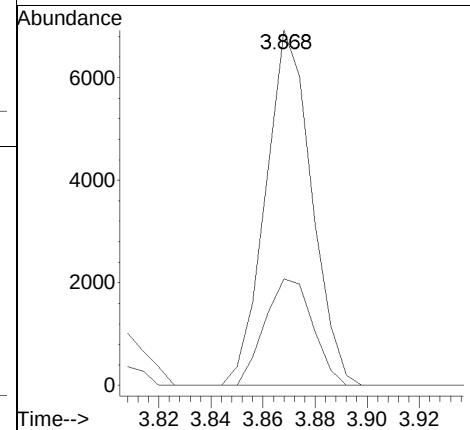
Response via : Initial Calibration

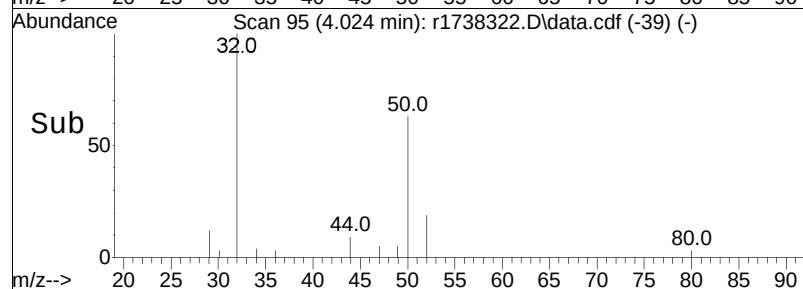
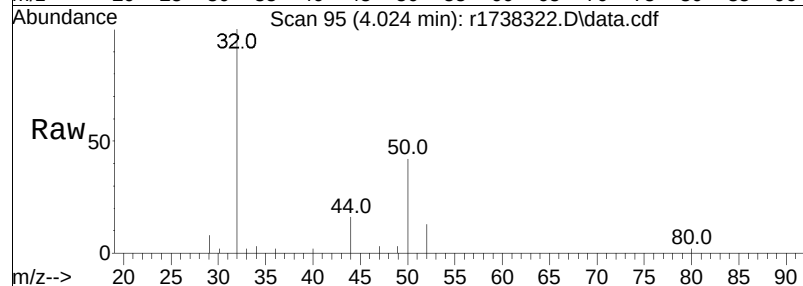
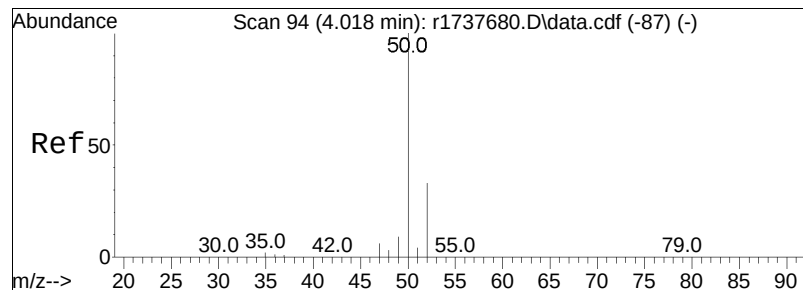




#5
 dichlorodifluoromethane
 Concen: 0.26 ppbV
 RT: 3.868 min Scan# 69
 Delta R.T. 0.006 min
 Lab File: r1738322.D
 Acq: 2 Feb 2024 8:23 AM

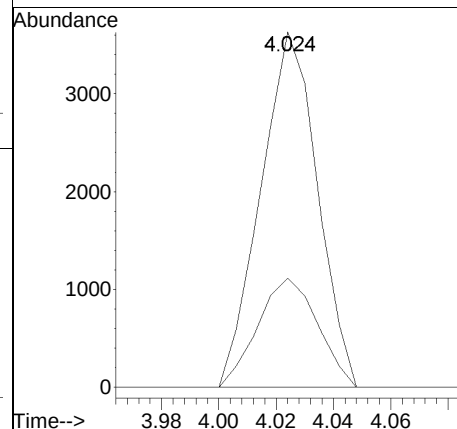
Tgt Ion: 85 Resp: 8525
 Ion Ratio Lower Upper
 85 100
 87 30.0 25.4 38.0

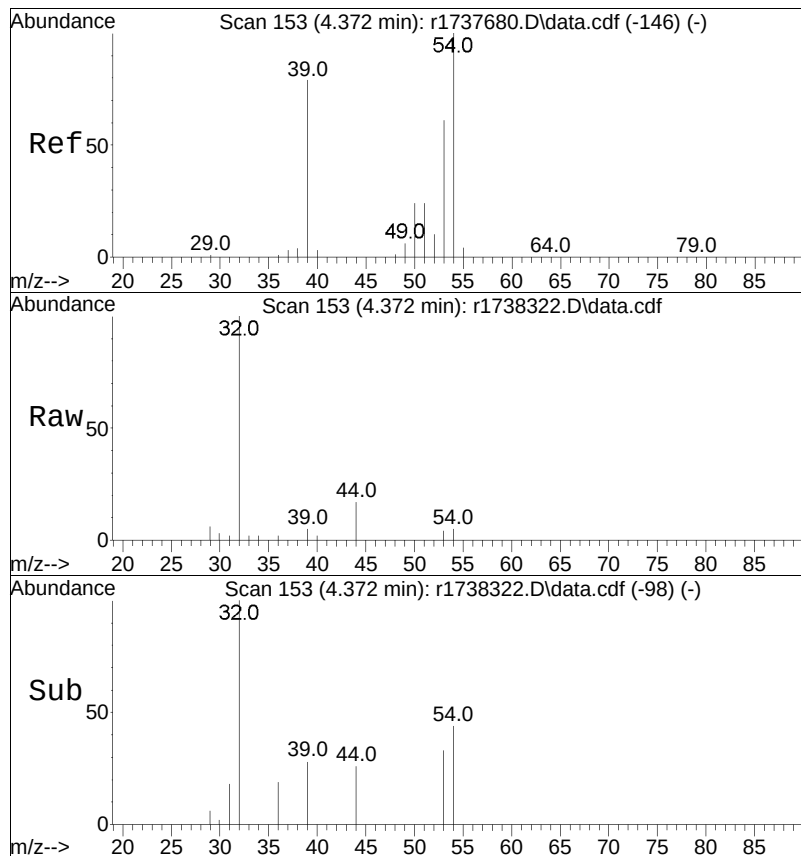




#6
 chloromethane
 Concen: 0.29 ppbV
 RT: 4.024 min Scan# 95
 Delta R.T. 0.006 min
 Lab File: r1738322.D
 Acq: 2 Feb 2024 8:23 AM

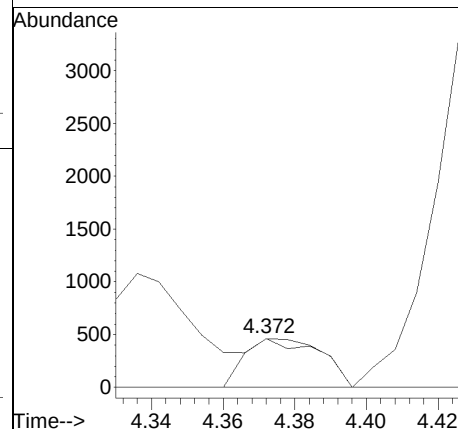
Tgt Ion	Ratio	Lower	Upper
50	100		
52	30.7	26.4	39.6

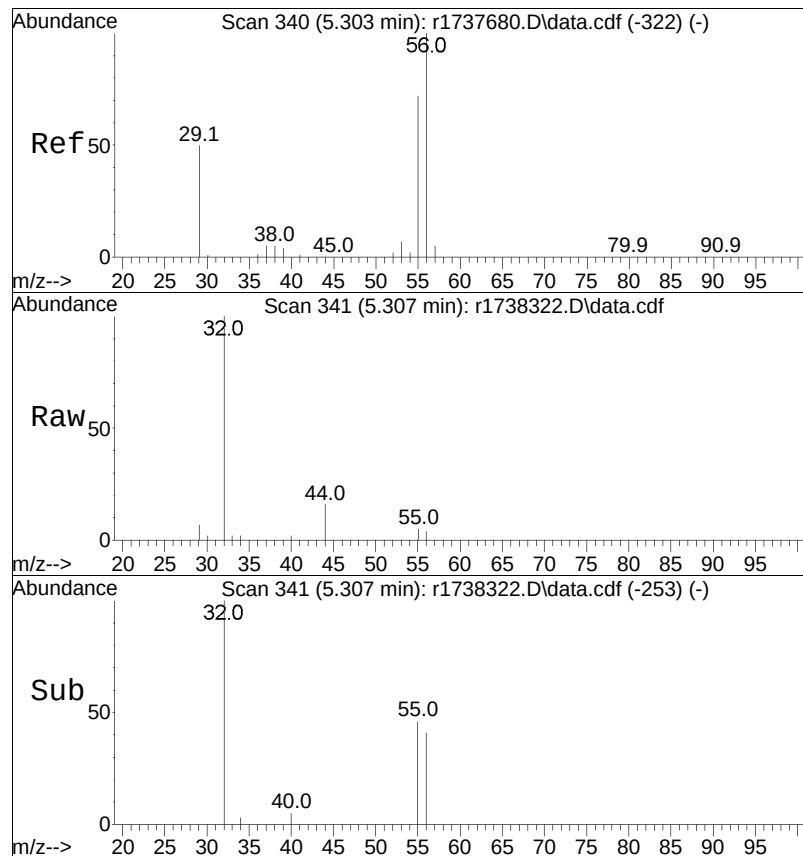




#10
 1,3-butadiene
 Concen: 0.04 ppbV
 RT: 4.372 min Scan# 153
 Delta R.T. 0.000 min
 Lab File: r1738322.D
 Acq: 2 Feb 2024 8:23 AM

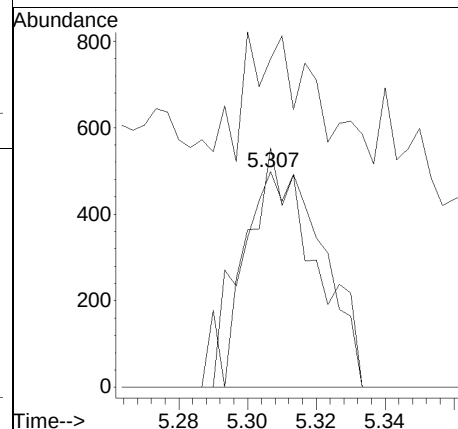
Tgt Ion	Ratio	Lower	Upper
54	100		
39	100.0	63.8	95.8#

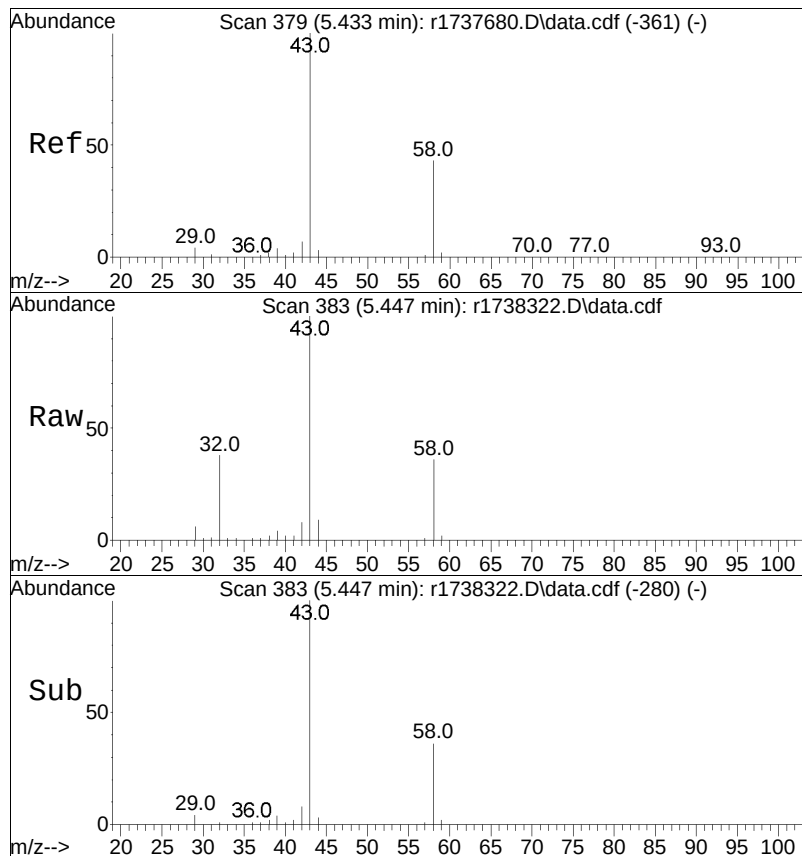




#18
 acrolein
 Concen: 0.10 ppbV
 RT: 5.307 min Scan# 341
 Delta R.T. 0.003 min
 Lab File: r1738322.D
 Acq: 2 Feb 2024 8:23 AM

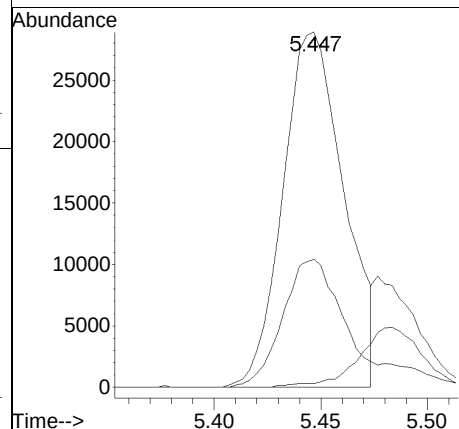
Tgt Ion:	56	Resp:	824
Ion Ratio	Lower	Upper	
56	100		
55	111.0	57.9	86.9#
29	152.4	41.7	62.5#

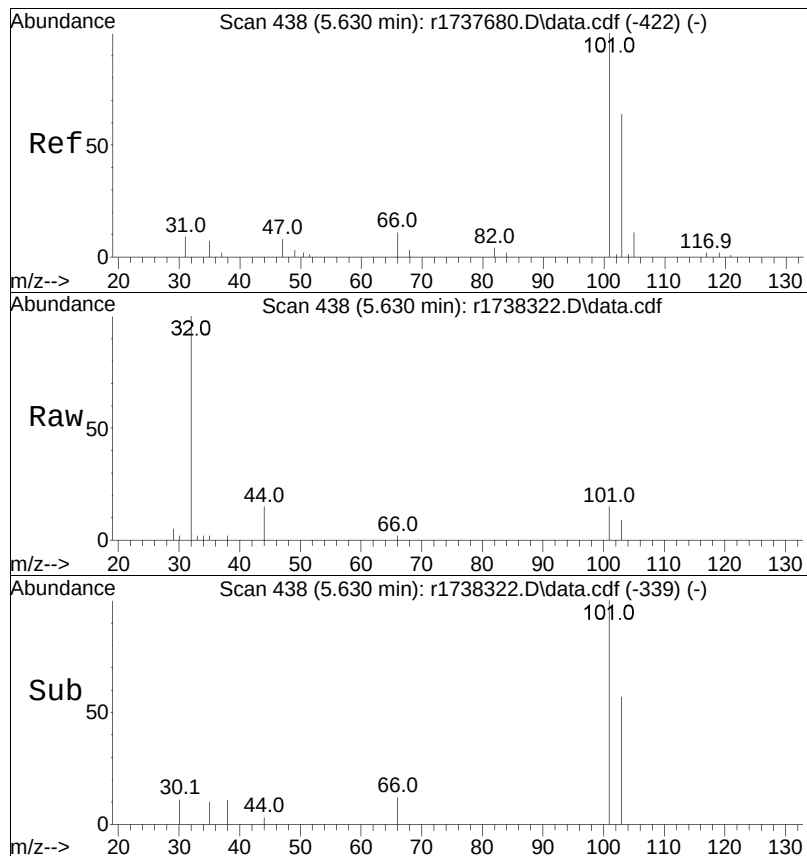




#19
 acetone
 Concen: 2.75 ppbV m
 RT: 5.447 min Scan# 383
 Delta R.T. 0.013 min
 Lab File: r1738322.D
 Acq: 2 Feb 2024 8:23 AM

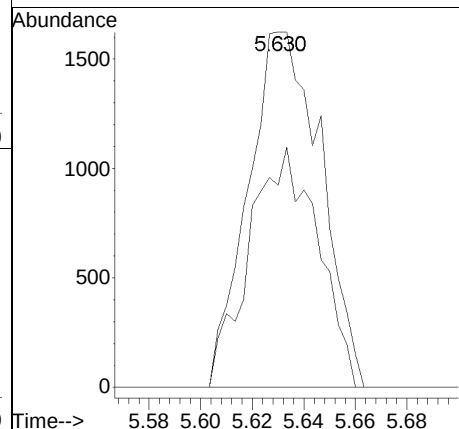
Tgt	Ion: 43	Resp:	57660
Ion	Ratio	Lower	Upper
43	100		
58	36.1	34.0	51.0
57	1.0	0.9	1.3

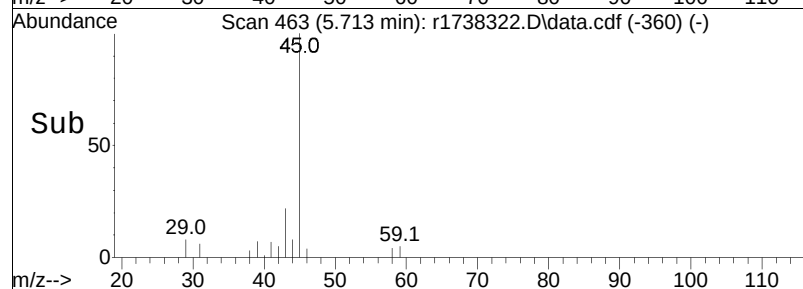
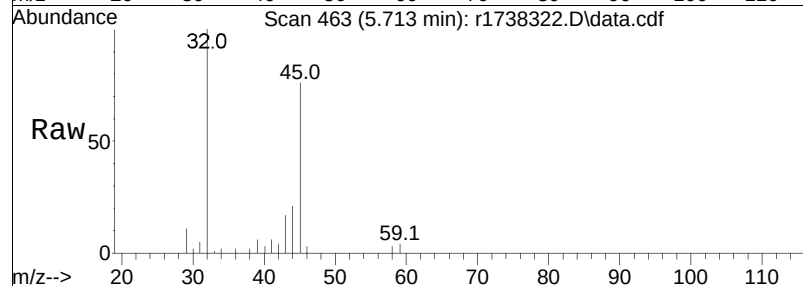
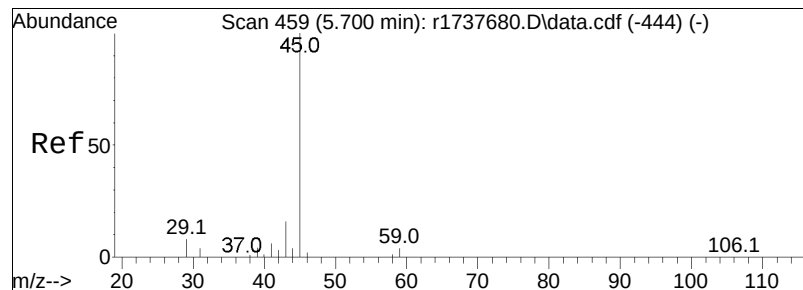




#21
 trichlorofluoromethane
 Concen: 0.12 ppbV
 RT: 5.630 min Scan# 438
 Delta R.T. 0.000 min
 Lab File: r1738322.D
 Acq: 2 Feb 2024 8:23 AM

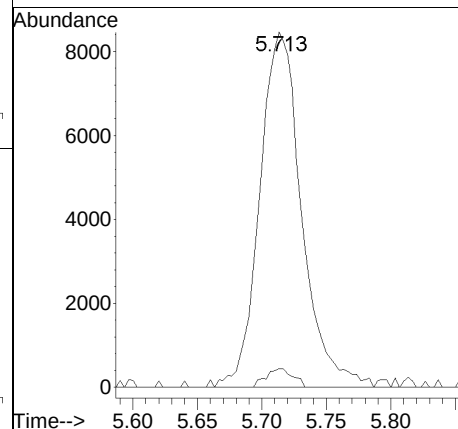
Tgt Ion	Ratio	Lower	Upper
101	100		
103	56.9	51.2	76.8

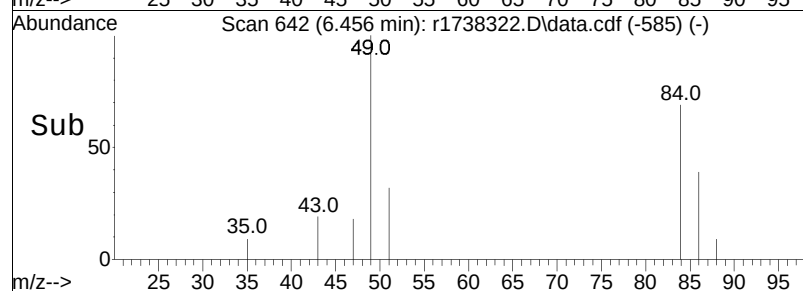
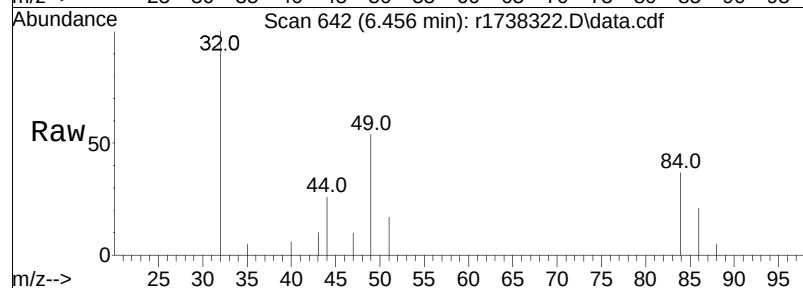
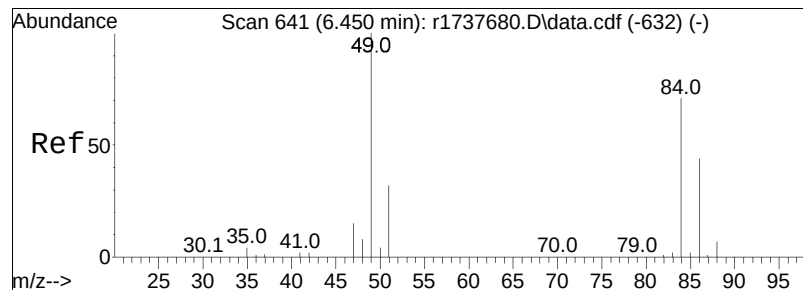




#22
isopropyl alcohol
Concen: 0.71 ppbV
RT: 5.713 min Scan# 463
Delta R.T. 0.013 min
Lab File: r1738322.D
Acq: 2 Feb 2024 8:23 AM

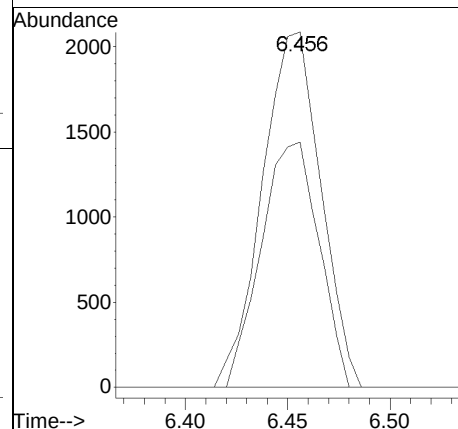
Tgt Ion	Ratio	Lower	Upper
45	100		
59	5.3	3.4	5.2#

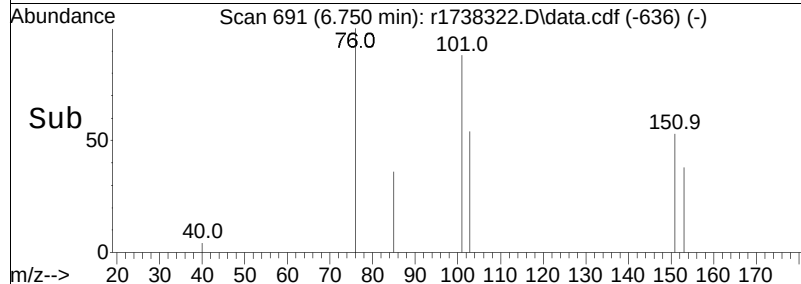
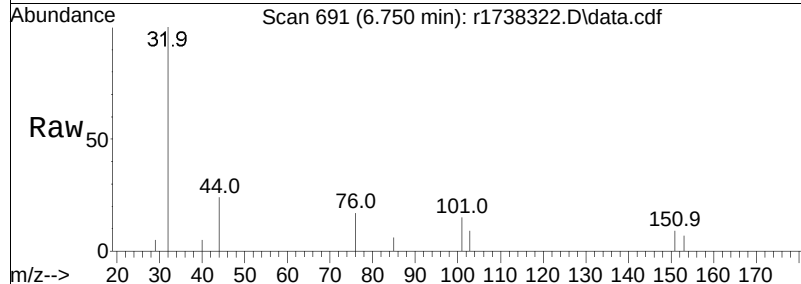
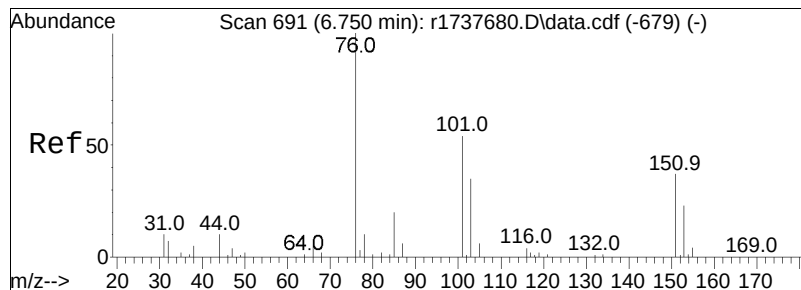




#28
 methylene chloride
 Concen: 0.18 ppbV
 RT: 6.456 min Scan# 642
 Delta R.T. 0.006 min
 Lab File: r1738322.D
 Acq: 2 Feb 2024 8:23 AM

Tgt Ion:	49	84	Ratio	Lower	Upper
Resp:	4161				
Ion Ratio	100	69.0			
			56.7		85.1





#31

Freon 113

Concen: 0.04 ppbV

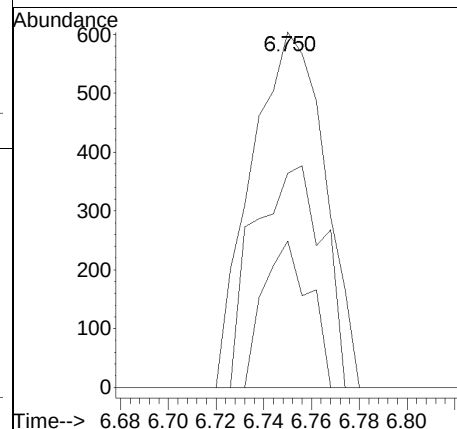
RT: 6.750 min Scan# 691

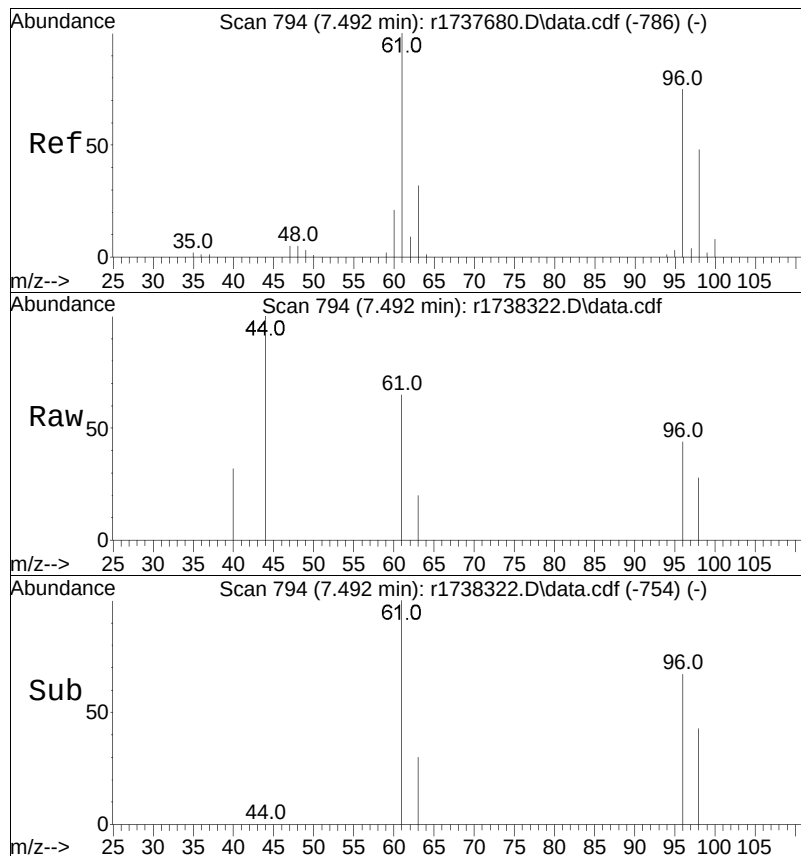
Delta R.T. 0.000 min

Lab File: r1738322.D

Acq: 2 Feb 2024 8:23 AM

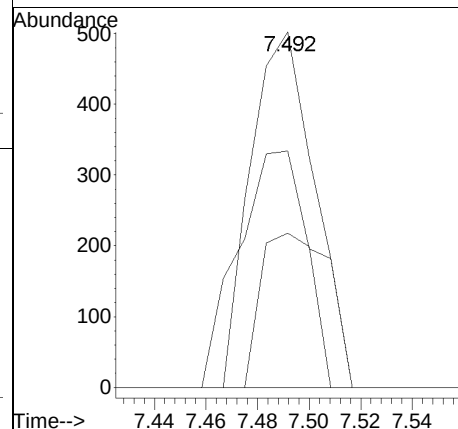
Tgt Ion:	101	Resp:	1293
Ion Ratio	Lower	Upper	
101	100		
85	41.2	30.5	45.7
151	60.3	56.0	84.0

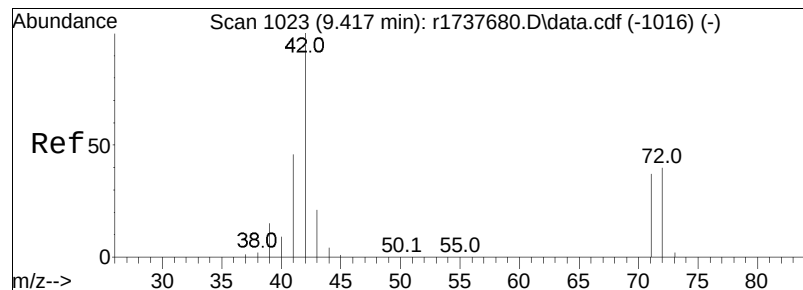




#32
 trans-1,2-dichloroethene
 Concen: 0.04 ppbV
 RT: 7.492 min Scan# 794
 Delta R.T. 0.000 min
 Lab File: r1738322.D
 Acq: 2 Feb 2024 8:23 AM

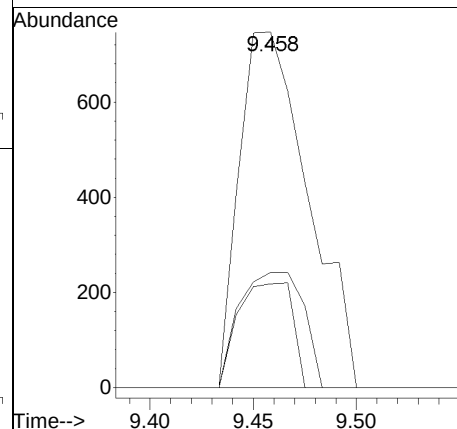
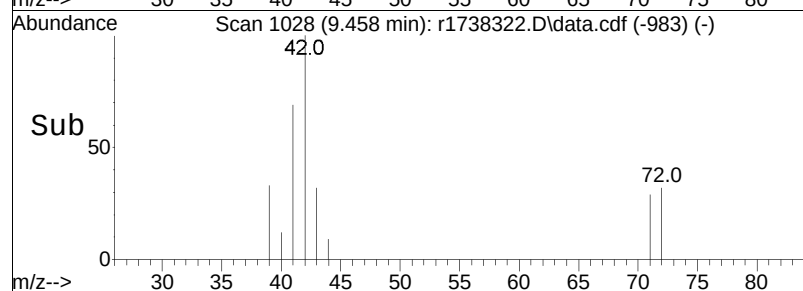
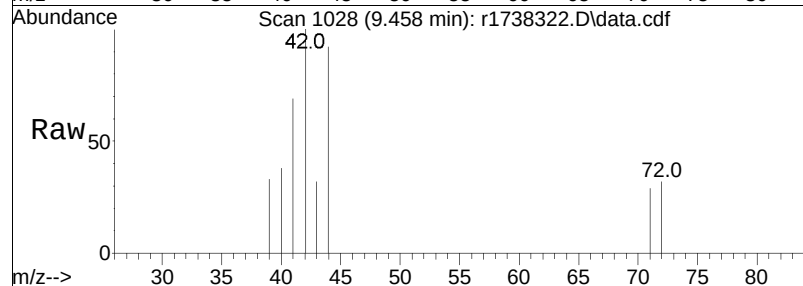
Tgt Ion:	61	Resp:	865
Ion Ratio	Lower	Upper	
61	100		
96	66.5	59.9	89.9
98	43.4	38.2	57.4

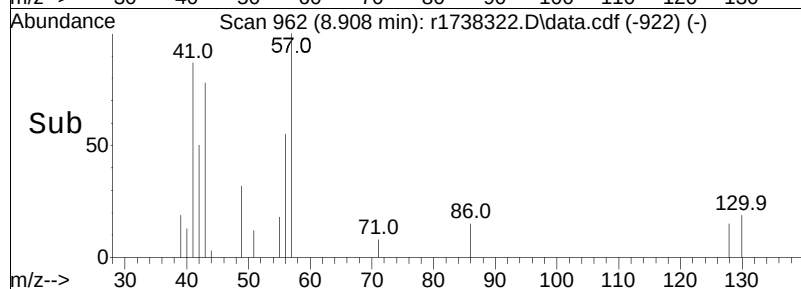
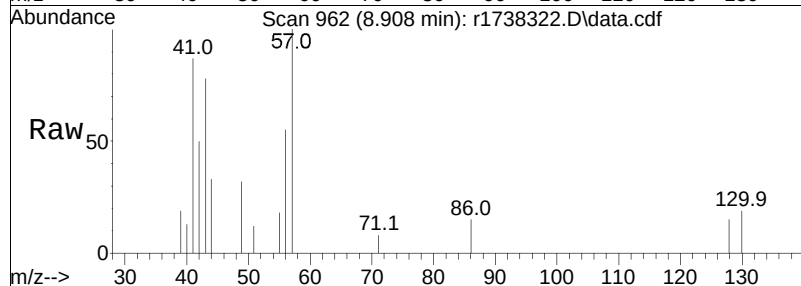
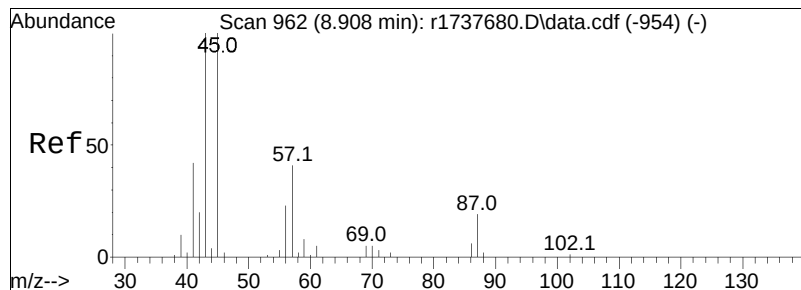




#40
Tetrahydrofuran
Concen: 0.07 ppbV
RT: 9.458 min Scan# 1028
Delta R.T. 0.042 min
Lab File: r1738322.D
Acq: 2 Feb 2024 8:23 AM

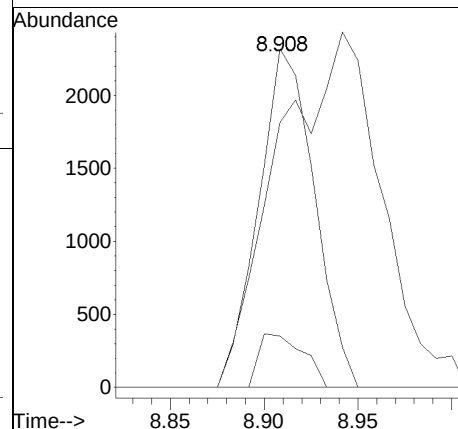
Tgt Ion	Ratio	Lower	Upper
42	100		
71	29.2	30.0	45.0#
72	32.4	31.9	47.9

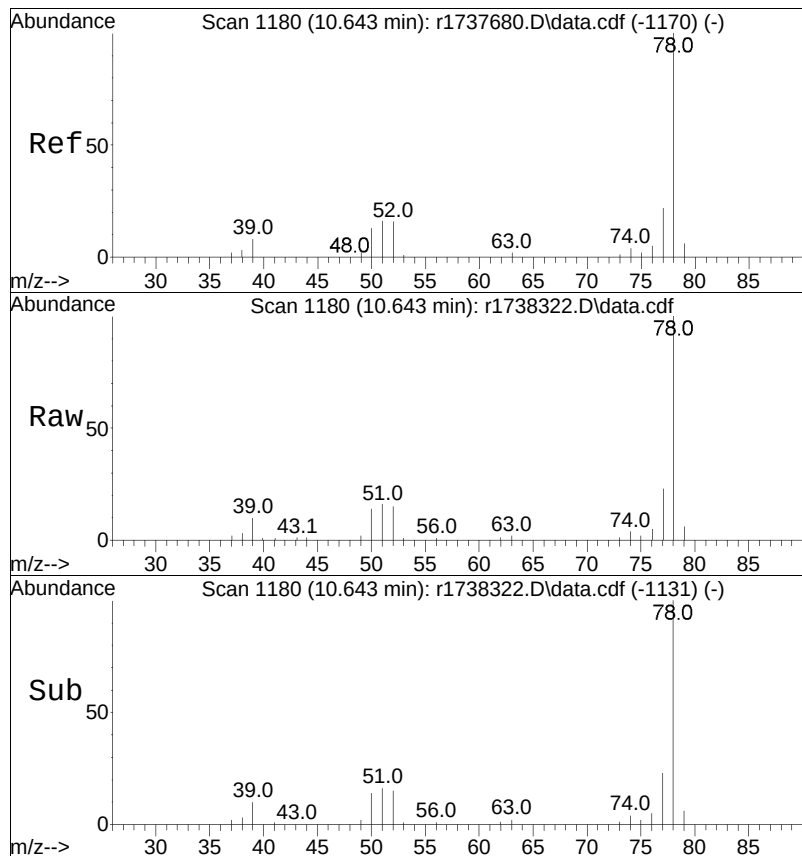




#44
hexane
Concen: 0.16 ppbV
RT: 8.908 min Scan# 962
Delta R.T. 0.000 min
Lab File: r1738322.D
Acq: 2 Feb 2024 8:23 AM

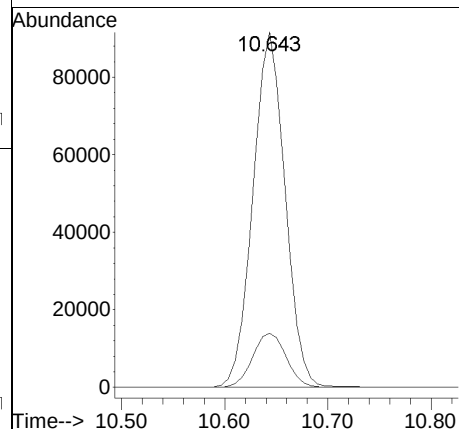
Tgt Ion	Ratio	Lower	Upper
57	100		
43	78.2	197.0	295.6#
86	15.2	12.6	19.0

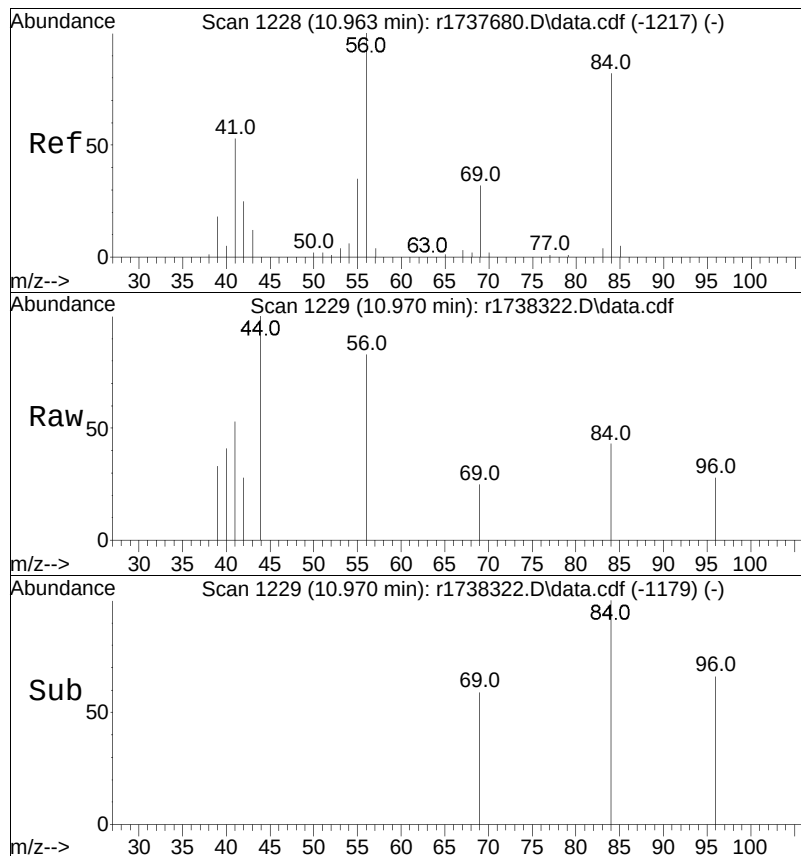




#50
benzene
Concen: 2.90 ppbV
RT: 10.643 min Scan# 1180
Delta R.T. 0.000 min
Lab File: r1738322.D
Acq: 2 Feb 2024 8:23 AM

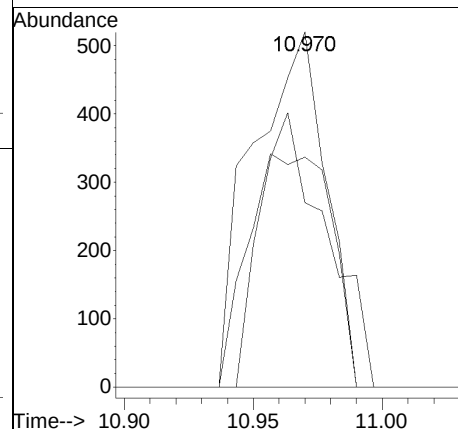
Tgt	Ion	Resp	Lower	Upper
78	100	198277		
52	15.3	12.7	19.1	

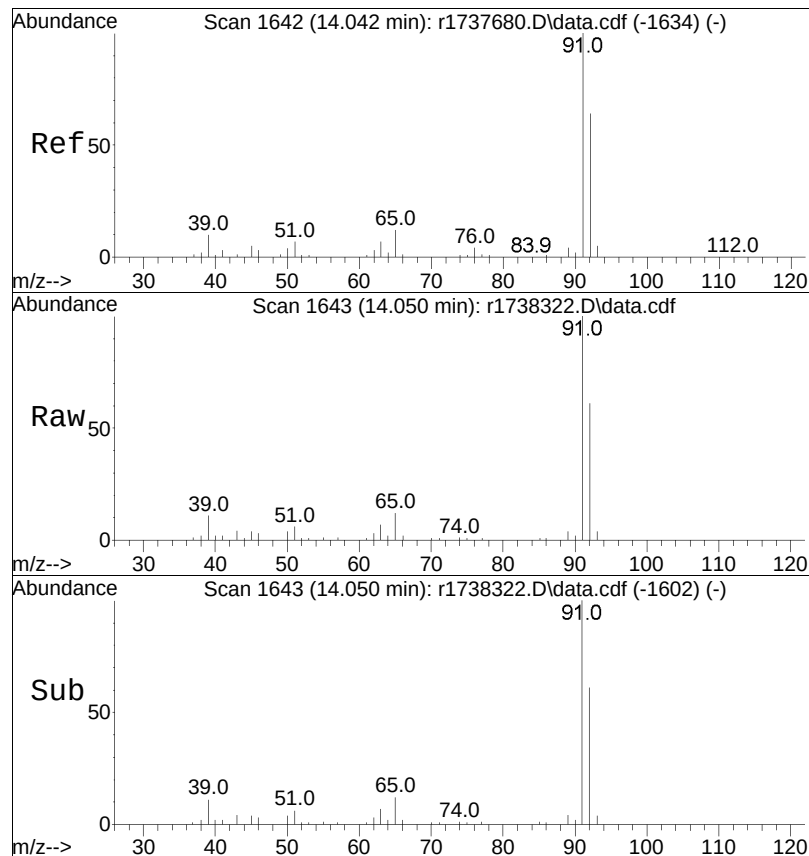




#53
cyclohexane
Concen: 0.03 ppbV
RT: 10.970 min Scan# 1229
Delta R.T. 0.007 min
Lab File: r1738322.D
Acq: 2 Feb 2024 8:23 AM

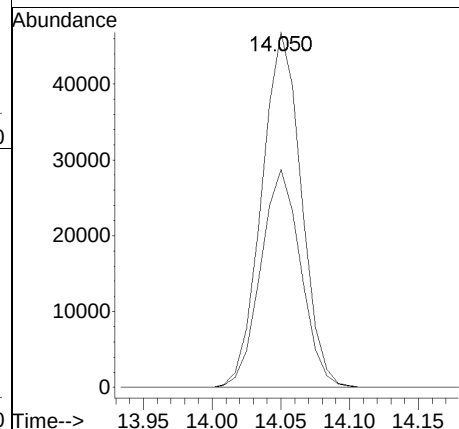
Tgt Ion:	56	Resp:	1029
Ion Ratio	Lower	Upper	
56	100		
84	51.9	65.7	98.5#
41	64.8	42.5	63.7#

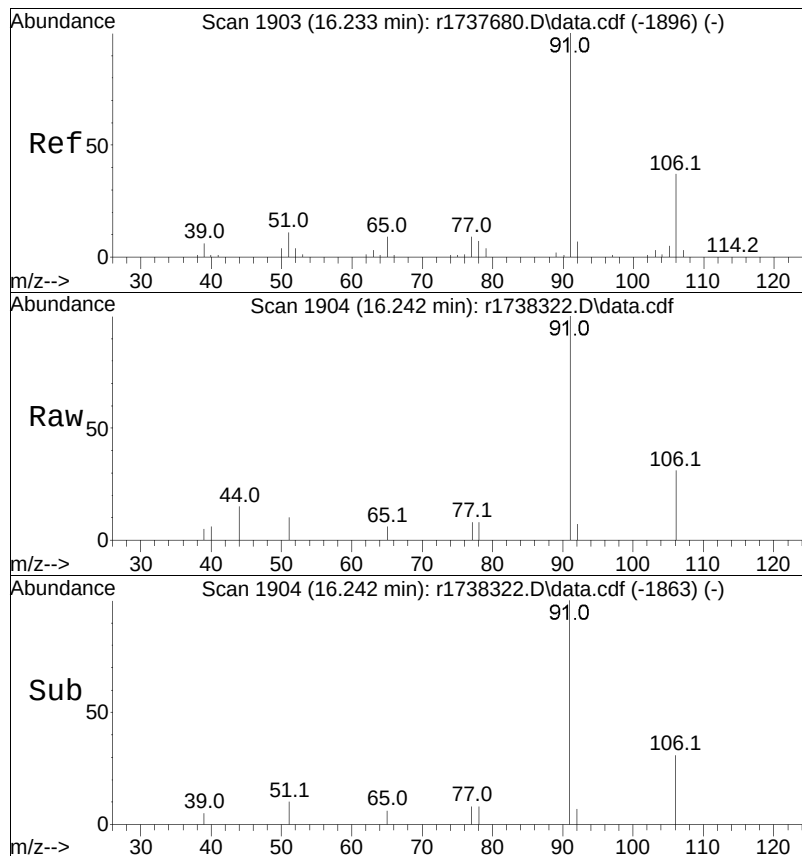




#68
toluene
Concen: 1.30 ppbV
RT: 14.050 min Scan# 1643
Delta R.T. 0.008 min
Lab File: r1738322.D
Acq: 2 Feb 2024 8:23 AM

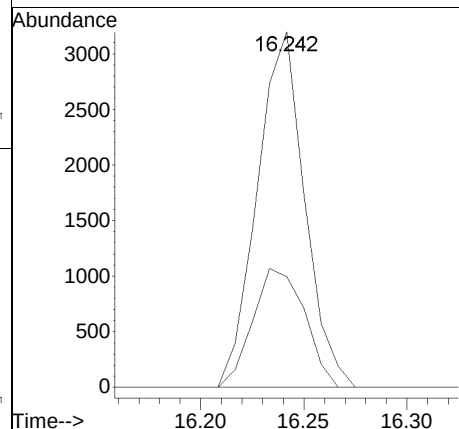
Tgt	Ion	Ratio	Lower	Upper
91	100			
92	61.3	51.2	76.8	

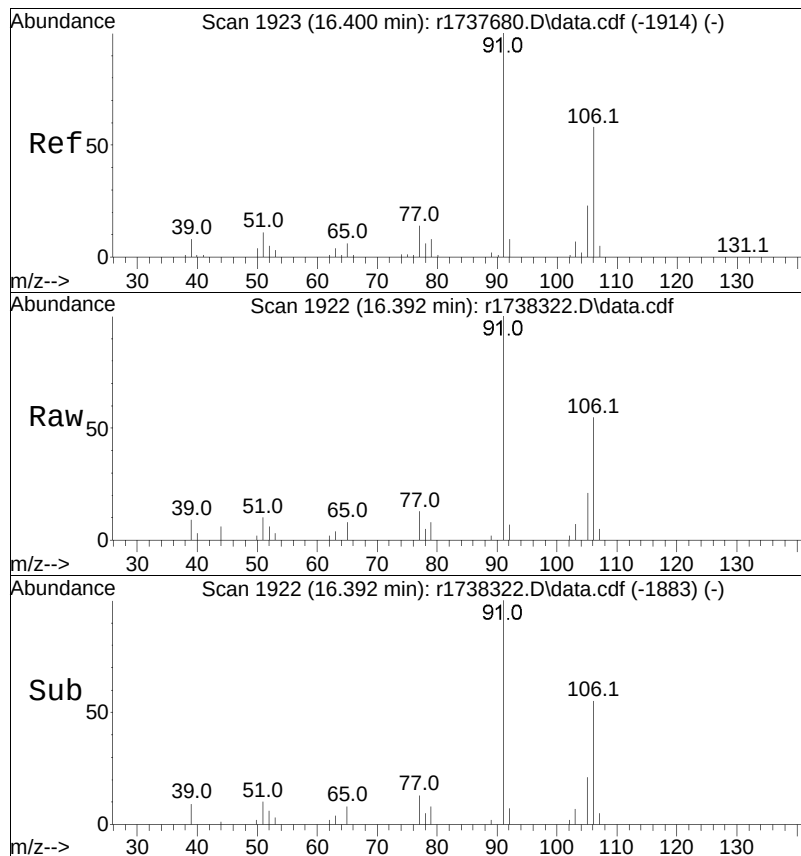




#81
ethylbenzene
Concen: 0.06 ppbV
RT: 16.242 min Scan# 1904
Delta R.T. 0.008 min
Lab File: r1738322.D
Acq: 2 Feb 2024 8:23 AM

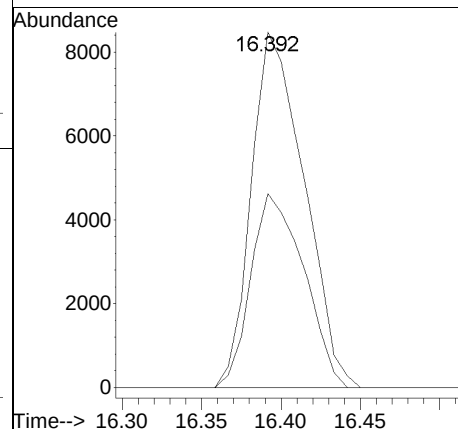
Tgt	Ion	Resp	Lower	Upper
91	100	5118		
106	31.2	29.4	44.0	

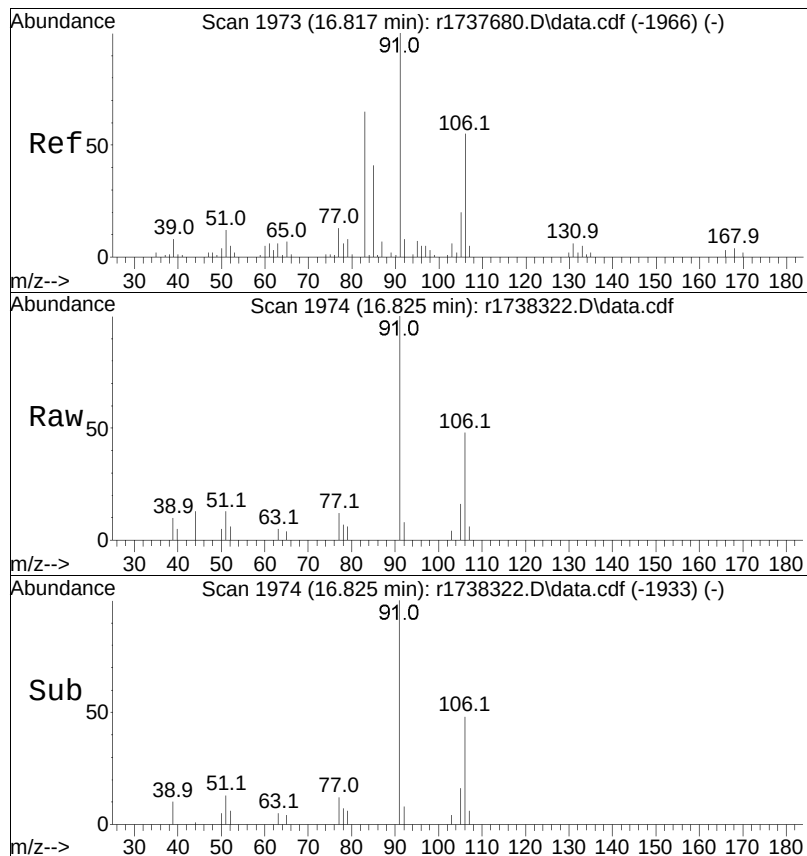




#83
 m+p-xylene
 Concen: 0.27 ppbV
 RT: 16.392 min Scan# 1922
 Delta R.T. -0.008 min
 Lab File: r1738322.D
 Acq: 2 Feb 2024 8:23 AM

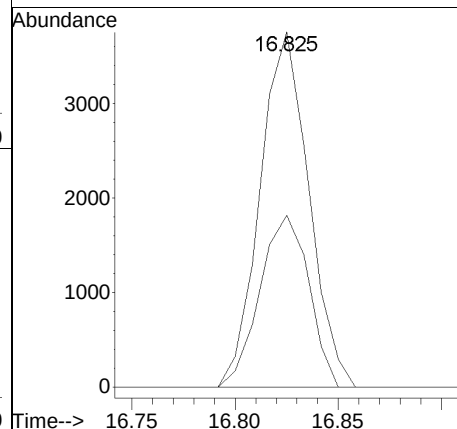
Tgt	Ion	Resp	Lower	Upper
91	100	19592		
106	54.5	46.1	69.1	

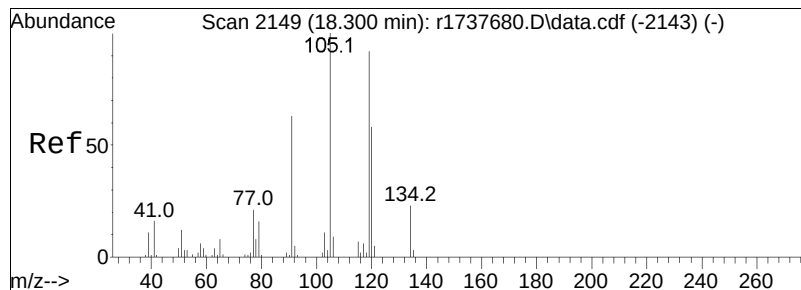




#87
 o-xylene
 Concen: 0.09 ppbV
 RT: 16.825 min Scan# 1974
 Delta R.T. 0.008 min
 Lab File: r1738322.D
 Acq: 2 Feb 2024 8:23 AM

Tgt Ion	Ratio	Lower	Upper
91	100		
106	48.4	44.2	66.4





#99

1,2,4-trimethylbenzene

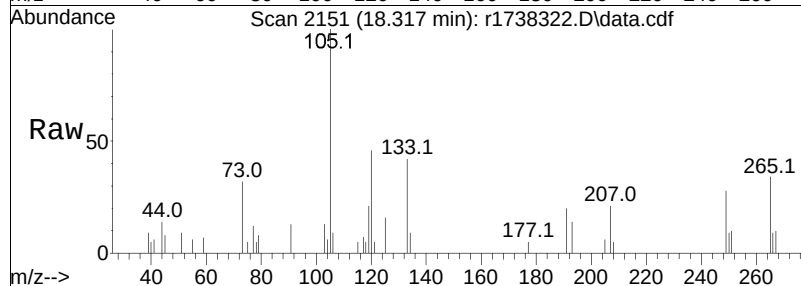
Concen: 0.06 ppbV

RT: 18.317 min Scan# 2151

Delta R.T. 0.017 min

Lab File: r1738322.D

Acq: 2 Feb 2024 8:23 AM



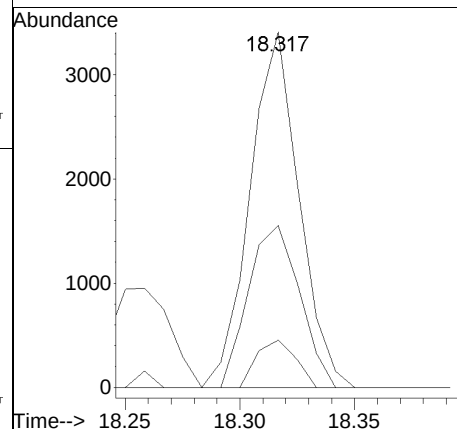
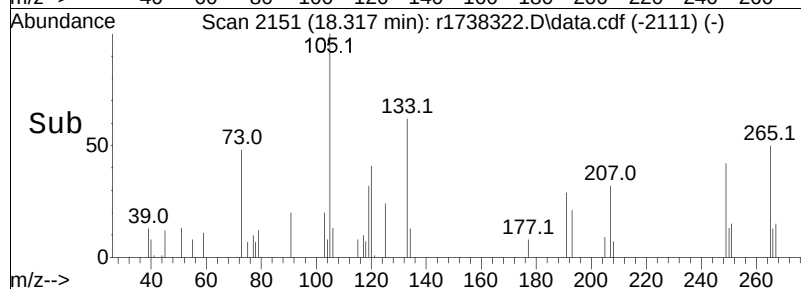
Tgt Ion:105 Resp: 5073

Ion Ratio Lower Upper

105 100

120 45.6 46.0 69.0#

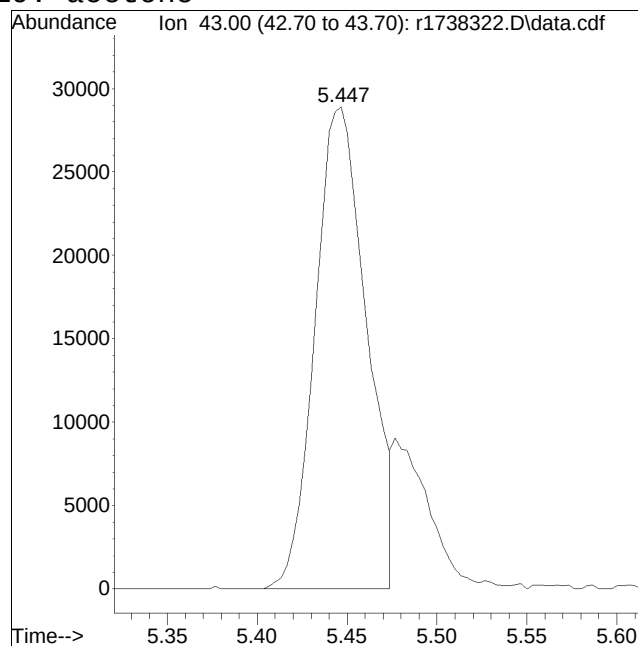
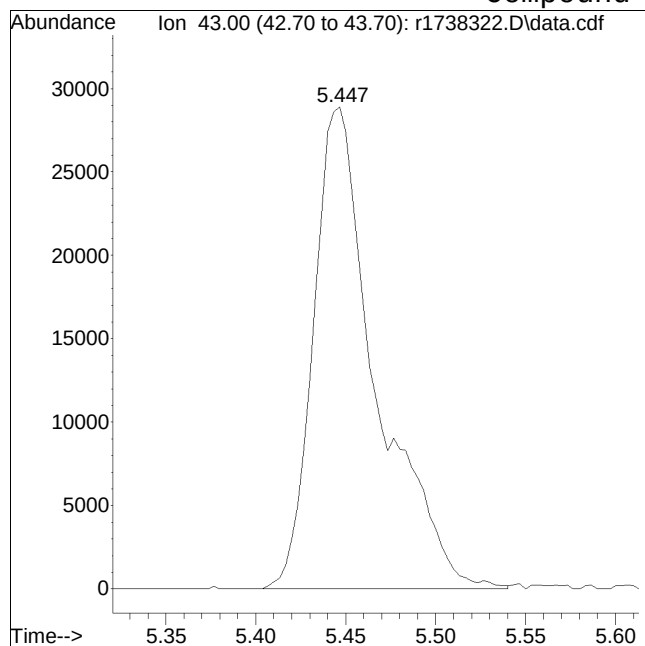
91 13.3 50.6 76.0#



Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1738322.D Operator : AIRLAB17:JMB
Date Inj'd : 2/2/2020 0:8: 3 Instrument :
Sample : WG1880708-5D,3,125.00,250 Quant Date : 2/2/2024 9:02 am

Compound #19: acetone



Original Peak Response = 70273

Manual Peak Response = 57660 M6

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

Calculation of Volatile Organic Compounds in Air

The instrument will calculate the concentration (ppbv). If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, ppbv} = C_s \times \text{DF}$$

Where:

C_s = Concentration of sample (ppbv)

DF = Dilution Factor

Calculation of Instrument Dilution Factor

For dilutions, smaller sample volumes (< 250mL) are analyzed. The smallest volume that can be analyzed with accuracy is 10 mL.

Samples that arrive at the laboratory with pressures below -15 inches Hg must be pressurized with zero air to greater than -15 inches Hg. This pressurization results in a dilution factor.

Calculation of Dilution Factor

$$\text{DF} = V_{\text{cf}} / V_{\text{ci}}$$

Where:

V_{ci} = volume of air in canister prior to pressurization, L

P =

Conversion of ppbv to $\mu\text{g}/\text{m}^3$

$$\mu\text{g}/\text{m}^3 = (\text{ppbv}) \times \text{MW} / 24.47$$

Where:

24.47 = molar gas constant (g/g-mole)

MW = molecular weight of the compound of interest

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

$$V_{ci} = 2.7 * PI / 14.696$$

Step 2: Calculate the volume in the canister after pressurization.

$$V_{cf} = 2.7 * PF / 14.696$$

Step 3: Calculate the dilution factor.

$$DF = V_{cf} / V_{ci}$$

Where:

V_{ci} = volume of air in canister prior to pressurization, L

PI = pressure reading of canister prior to pressurization (psia)

V_{cf} = volume of air in canister after pressurization, L

PF = pressure reading of canister after pressurization (psia)

DF = dilution factor

14.696 = atmospheric pressure (psia)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Feb 14 2024, 11:11 am

Work Group: WG1880230 for Department: 3 GC/MS

Created: 31-JAN-24 Due: Operator: JFI

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2403288-01	VS-FENCE	S T015-LL	SOIL_VAPOR	DONE	U	0217	0202	S0	Can-2.7
L2403288-02	AMBIENT	S T015-LL	AIR	DONE	U	0217	0202	S0	Can-2.7
L2403288-03	VS-DCR	S T015-LL	SOIL_VAPOR	DONE	U	0217	0202	S0	Can-2.7
L2403288-04	IA-DCR	S T015-LL	AIR	DONE	U	0217	0202	S0	Can-2.7
L2403288-05	VS-DCF	S T015-LL	SOIL_VAPOR	DONE	U	0217	0202	S0	Can-2.7
L2403288-06	IA-DCF	S T015-LL	AIR	DONE	U	0217	0202	S0	Can-2.7
L2403288-07	VS-MRE	S T015-LL	SOIL_VAPOR	DONE	U	0217	0202	S0	Can-2.7
L2403288-08	VS-VAC	S T015-LL	SOIL_VAPOR	DONE	U	0217	0202	S0	Can-2.7
L2403288-09	IA-WINE	S T015-LL	AIR	DONE	U	0217	0202	S0	Can-2.7
L2403288-10	VS-BOOK	S T015-LL	SOIL_VAPOR	DONE	U	0217	0202	S0	Can-2.7
L2403288-11	IA-YOGURT	S T015-LL	AIR	DONE	U	0217	0202	S0	Can-2.7
L2404958-01	VGAC INFLUENT	S T015-LL	SOIL_VAPOR	DONE	U	0224	0202	3C	Can-1
L2404958-02	VGAC EFFLUENT	S T015-LL	SOIL_VAPOR	DONE	U	0224	0202	3C	Can-1
WG1880230-1	MS BFB Tune Standard	S T015-LL	AIR	DONE	U				
WG1880230-1	MS BFB Tune Standard	S T015-LL	SOIL_VAPOR	DONE	U				
WG1880230-2	Continuing Calibrati	S T015-LL	SOIL_VAPOR	DONE	U				
WG1880230-2	Continuing Calibrati	S T015-LL	AIR	DONE	U				
WG1880230-3	Laboratory Control S	S T015-LL	AIR	DONE	U				
WG1880230-3	Laboratory Control S	S T015-LL	SOIL_VAPOR	DONE	U				
WG1880230-4	Laboratory Method Bl	S T015-LL	AIR	DONE	U				
WG1880230-4	Laboratory Method Bl	S T015-LL	SOIL_VAPOR	DONE	U				
WG1880230-5	Duplicate Sample	S T015-LL	SOIL_VAPOR	DONE	U				
WG1880230-5	Duplicate Sample	S T015-LL	AIR	DONE	U				
Comments:									
WG1880230-5	L2403288-05								

Alpha Analytical Air Lab Instrument Run Log

ID: Airlab15
 Date: 11/20/23
 Initials: BJB

Internal Standard/Surrogate IDs: SS20-028 / SS21-026
 Internal Standard/Surrogate Volume: 100 ml
 Sequence File Name: 231120.S

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ sublist	k Ch eck Pa
1	BA15080103	TO15_SFS.qgm	R1540777.qgd	250 ML	BLANK		NA
1	TA15080101	TO15_SFS.qgm	R1540778.qgd	250 ML	TUNE		NA
9	ITO15-SIMSTD0.02	TO15_SFS.qgm	R1540779.qgd	SS23-022D 50ML	SIM ONLY	DEFAULT	NA
9	ITO15-SIMSTD0.05	TO15_SFS.qgm	R1540780.qgd	SS23-022D 100ML	SIM ONLY	DEFAULT	NA
9	ITO15-SIMSTD0.1	TO15_SFS.qgm	R1540781.qgd	SS23-022D 250ML	SIM ONLY	DEFAULT	NA
10	ITO15-SIMSTD0.2	TO15_SFS.qgm	R1540782.qgd	SS23-022C 50ML		DEFAULT	NA
10	ITO15-SIMSTD0.5	TO15_SFS.qgm	R1540783.qgd	SS23-022C 125ML		DEFAULT	NA
10	ITO15-SIMSTD1.0	TO15_SFS.qgm	R1540784.qgd	SS23-022C 250ML		DEFAULT	NA
11	ITO15-SIMSTD5.0	TO15_SFS.qgm	R1540785.qgd	SS23-022H 125ML		DEFAULT	NA
11	ITO15-SIMSTD010	TO15_SFS.qgm	R1540786.qgd	SS23-022H 250ML		DEFAULT	NA
12	ITO15-SIMSTD020	TO15_SFS.qgm	R1540787.qgd	SS23-022A 50ML		DEFAULT	NA
12	ITO15-SIMSTD050	TO15_SFS.qgm	R1540788.qgd	SS23-022A 125ML		DEFAULT	NA
12	ITO15-LLSTD100	TO15_SFS.qgm	R1540789.qgd	SS23-022A 250ML	LL ONLY	DEFAULT	NA
1	BA15080101	TO15_SFS.qgm	R1540790.qgd	250 ML			NA
1	BA150801402	TO15_SFS.qgm	R1540791.qgd	250 ML			NA
2	CTO15-LLSTD10	TO15_SFS.qgm	R1540792.qgd	SS23-020E 250ML	LL ICV	DEF ICV AP2	NA
2	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1540793.qgd	SS23-020E 125ML	SIM ICV	DEF ICV AP2	NA
2	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1540794.qgd	SS23-020E 125ML	SIM ICV	DEF ICV AP2	NA

Alpha Analytical Air Lab Instrument Run Log

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual volume analyzed (mL), nominal

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

Alpha Analytical Air Lab Instrument Run Log

Instrument ID: AirLab 17

Internal Standard/Surrogate IDs: SS22-(

Date: 01/07/24

Internal Standard/Surrogate Volume:

Analyst Initials: BJB

Sequence File Name:

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)
1	BA17110401	C:\GCMSsolution\Meth ods\TO15_SFS.qgm	R1737670.qgd	250 mL	BLANK
1	BA17110401	C:\GCMSsolution\Meth ods\TO15_SFS.qgm	R1737671.qgd	250 mL	BLANK
1	TA17110401	C:\GCMSsolution\Meth ods\TO15_SFS.qgm	R1737672.qgd	250 mL	TUNE
9	ITO15-SIMSTD0.02	C:\GCMSsolution\Meth ods\TO15_SFS.qgm	R1737673.qgd	50 mL SS23-019D	SIM ONLY
9	ITO15-SIMSTD0.05	C:\GCMSsolution\Meth ods\TO15_SFS.qgm	R1737674.qgd	125 mL SS23-019D	SIM ONLY
9	ITO15-SIMSTD0.1	C:\GCMSsolution\Meth ods\TO15_SFS.qgm	R1737675.qgd	250 mL SS23-019D	SIM ONLY
10	ITO15-SIMSTD0.2	C:\GCMSsolution\Meth ods\TO15_SFS.qgm	R1737676.qgd	50 mL SS23-019C	
10	ITO15-SIMSTD0.5	C:\GCMSsolution\Meth ods\TO15_SFS.qgm	R1737677.qgd	125 mL SS23-019C	
10	ITO15-SIMSTD1.0	C:\GCMSsolution\Meth ods\TO15_SFS.qgm	R1737678.qgd	250 mL SS23-019C	
11	ITO15-SIMSTD5.0	C:\GCMSsolution\Meth ods\TO15_SFS.qgm	R1737679.qgd	125 mL SS23-019B	
11	ITO15-SIMSTD10.0	C:\GCMSsolution\Meth ods\TO15_SFS.qgm	R1737680.qgd	250 mL SS23-019B	
12	ITO15-SIMSTD20	C:\GCMSsolution\Meth ods\TO15_SFS.qgm	R1737681.qgd	50 mL SS23-019A	
12	ITO15-SIMSTD50	C:\GCMSsolution\Meth ods\TO15_SFS.qgm	R1737682.qgd	125 mL SS23-019A	
12	ITO15-LLSTD100	C:\GCMSsolution\Meth ods\TO15_SFS.qgm	R1737683.qgd	250 mL SS23-019A	LL ONLY
1	BA17110401	C:\GCMSsolution\Meth ods\TO15_SFS.qgm	R1737684.qgd	250 mL	
1	BA17110402	C:\GCMSsolution\Meth ods\TO15_SFS.qgm	R1737685.qgd	250 mL	

Alpha Analytical Air Lab Instrument Run Log

028/ SS21-026

100 ml

240107.S

Product/ Sublist	Check Pass ?
	NA
	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
	NA
USE AS TUNE FOR 1/8 SEQ	NA

Alpha Analytical Air Lab Instrument Run Log

2	CTO15-LLSTD10.0	C:\GCMSsolution\Meth ods\TO15_SFS.qgm	R1737686.qgd	250 mL SS23-017C	LL ICV
2	CTO15-SIMSTD5.0	C:\GCMSsolution\Meth ods\TO15_SFS.qgm	R1737687.qgd	125 mL SS23-017C	SIM ICV

Column ID: Rtx-1 0.25 mm ID

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual volume analyzed (mL), nominal volume analyzed

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

Alpha Analytical Air Lab Instrument Run Log

DEF ICV AP2	NA
DEF ICV AP2	NA

ID: Airlab15
Date: 01/31/24
Initials: JFI

Internal Standard/Surrogate IDs: SS20-028 / SS21-026
Internal Standard/Surrogate Volume: 100 ml
Sequence File Name: 240131.S

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ sublist	ak Ch eck Pa
1	TA15013101	TO15_SFS.qgm	R1542412.qgd	SS23-020E 250ML	TUNE		NA
2	CA15013101	TO15_SFS.qgm	R1542413.qgd	SS23-020E 250ML	LL CC		NA
3	CTO15-LLSTD10	TO15_SFS.qgm	R1542414.qgd	SS23-020E 250ML	LL LCS		NA
3	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1542415.qgd	SS23-020E 125ML	SIM LCS		NA
1	BA15013101	TO15_SFS.qgm	R1542416.qgd	250mL	LL BLANK		NA
1	BA15013102	TO15_SFS.qgm	R1542417.qgd	250mL	SIM BLANK		NA
1	L2403288-02,3,250,250	TO15_SFS.qgm	R1542418.qgd	WG1880230,ICAL20574		PA BY SIM	Y
2	L2403288-04,3,250,250	TO15_SFS.qgm	R1542419.qgd	WG1880230,ICAL20574	IPA OVERCAL	PA BY SIM	Y
3	L2403288-06,3,250,250	TO15_SFS.qgm	R1542420.qgd	WG1880230,ICAL20574	IPA OVERCAL	PA BY SIM	Y
4	L2403288-09,3,250,250	TO15_SFS.qgm	R1542421.qgd	WG1880230,ICAL20574		PA BY SIM	Y
5	L2403288-11,3,250,250	TO15_SFS.qgm	R1542422.qgd	WG1880230,ICAL20574		PA BY SIM	Y
6	L2403288-01,3,250,250	TO15_SFS.qgm	R1542423.qgd	WG1880230,ICAL20574		PA	Y
7	L2403288-03,3,250,250	TO15_SFS.qgm	R1542424.qgd	WG1880230,ICAL20574		PA	Y
8	L2403288-05,3,250,250	TO15_SFS.qgm	R1542425.qgd	WG1880230,ICAL20574		PA	Y
8	L2403288-05DUP,3,250,250	TO15_SFS.qgm	R1542426.qgd	WG1880230,ICAL20574	LL (DUMMY) DUP	PA	Y
9	L2403288-07,3,250,250	TO15_SFS.qgm	R1542427.qgd	WG1880230,ICAL20574		PA	Y
10	L2403288-08,3,250,250	TO15_SFS.qgm	R1542428.qgd	WG1880230,ICAL20574		PA	Y
11	L2403288-10,3,250,250	TO15_SFS.qgm	R1542429.qgd	WG1880230,ICAL20574		PA	Y
12	L2404723-01D,3,107.02,250	TO15_SFS.qgm	R1542430.qgd	WG1880225,ICAL20574		5CHLOR	Y
13	L2404723-02D,3,116.5,250	TO15_SFS.qgm	R1542431.qgd	WG1880225,ICAL20574		5CHLOR	Y
14	L2404723-03D,3,126.72,250	TO15_SFS.qgm	R1542432.qgd	WG1880225,ICAL20574		5CHLOR	Y

15	L2404723-04D,3,109.22,250	TO15_SFS.qgm	R1542433.qgd	WG1880225,ICAL20574		5CHLOR	Y
16	L2404723-05D,3,107.02,250	TO15_SFS.qgm	R1542434.qgd	WG1880225,ICAL20574		5CHLOR	Y
1	L2404723-06D,3,109.22,250	TO15_SFS.qgm	R1542435.qgd	WG1880225,ICAL20574		5CHLOR	Y
2	L2404723-07D,3,107.26,250	TO15_SFS.qgm	R1542436.qgd	WG1880225,ICAL20574		5CHLOR	Y
3	L2404958-02D,3,110.37,250	TO15_SFS.qgm	R1542437.qgd	WG1880230,ICAL20574		DOW_55	Y
4	L2404958-01D,3,11.27,250	TO15_SFS.qgm	R1542438.qgd	WG1880230,ICAL20574	ACETONE AND NAPH OVERCAL	DOW_55	Y
4	L2404958-01D2,3,4.51,250	TO15_SFS.qgm	R1542439.qgd	WG1880230,ICAL20574	naph overcal	ACETONE AND NAPH	Y
2	L2403288-04D,3,25,250	TO15_SFS.qgm	R1542440.qgd	WG1880230,ICAL20574	do not use	IPA	Y
3	L2403288-06D,3,25,250	TO15_SFS.qgm	R1542441.qgd	WG1880230,ICAL20574		IPA	Y
4	L2404958-01D3,3,3.60,250	TO15_SFS.qgm	R1542442.qgd	WG1880230,ICAL20574		naph	Y

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume

Alpha Analytical Air Lab Instrument Run Log

Instrument ID: Airlab 17

Date: 02/01/24

Analyst Initials: JMB

Internal Standard/Surrogate IDs: SS22-028/ SS21-026

Internal Standard/Surrogate Volume: 100 ml

Sequence File Name: 240201.S

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ Sublist
1	TA17020101	TO15_SFS.qgm	R1738295.qgd	250 mL	TUNE	
2	CAPH10-APH10.0	TO15_SFS.qgm	R1738296.qgd	125 mL SS23-017D	APH CC	
3	CA17020101	TO15_SFS.qgm	R1738297.qgd	250 mL	LL CC	
4	CTO15-LLSTD10.0	TO15_SFS.qgm	R1738298.qgd	250 mL SS23-017D	LL LCS	
4	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1738299.qgd	125 mL SS23-017D	SIM LCS	
1	BA17020101	TO15_SFS.qgm	R1738300.qgd	250 mL	LL BLANK	
1	BA17020102	TO15_SFS.qgm	R1738301.qgd	250 mL	SIM BLANK	
2	L2405192-10,3,250,250	TO15_SFS.qgm	R1738302.qgd	250 mL		LL/SIM/APH CERT
3	L2405496-01,3,250,250	TO15_SFS.qgm	R1738303.qgd	250 mL		LL/SIM/APH CERT
4	L2405496-02,3,250,250	TO15_SFS.qgm	R1738304.qgd	250 mL		LL/SIM/APH CERT
5	L2405496-03,3,250,250	TO15_SFS.qgm	R1738305.qgd	250 mL		LL/SIM/APH CERT
6	L2405496-04,3,250,250	TO15_SFS.qgm	R1738306.qgd	250 mL		LL/SIM/APH CERT
7	L2405496-05,3,250,250	TO15_SFS.qgm	R1738307.qgd	250 mL		LL/SIM/APH CERT
9	L2405496-06,3,250,250	TO15_SFS.qgm	R1738308.qgd	250 mL		LL/SIM/APH CERT
10	L2405496-07,3,250,250	TO15_SFS.qgm	R1738309.qgd	250 mL		LL/SIM/APH CERT
11	L2405496-08,3,250,250	TO15_SFS.qgm	R1738310.qgd	250 mL		LL/SIM/APH CERT
12	L2405496-09,3,250,250	TO15_SFS.qgm	R1738311.qgd	250 mL		LL/SIM/APH CERT
13	L2405496-10,3,250,250	TO15_SFS.qgm	R1738312.qgd	250 mL		LL/SIM/APH CERT

Alpha Analytical Air Lab
Instrument Run Log

Check Pass ?
NA
NA
NA
NA
NA
NA
NA
NA
NA
NA
NA
NA
NA
NA
NA
NA
NA
NA
NA
NA

Alpha Analytical Air Lab Instrument Run Log

14	L2403288-04D,3,25,250	TO15_SFS.qgm	R1738313.qgd	WG1880708,ICAL20743		IPA
15	L2404746-20,3,250,250	TO15_SFS.qgm	R1738314.qgd	WG1880708,ICAL20743		PA
16	L2404746-21,3,250,250	TO15_SFS.qgm	R1738315.qgd	WG1880708,ICAL20743		PA
1	L2404746-19,3,250,250	TO15_SFS.qgm	R1738316.qgd	WG1880708,ICAL20743		PA
2	L2403930-01D,3,108.22,250	TO15_SFS.qgm	R1738317.qgd	WG1880708,ICAL20743		PA
3	L2403930-02D,3,111.58,250	TO15_SFS.qgm	R1738318.qgd	WG1880708,ICAL20743		PA
3	L2403930-02DUPD,3,111.58,250	TO15_SFS.qgm	R1738319.qgd	WG1880708,ICAL20743	DUP FAILURE	PA
4	L2403930-03D,3,106.54,250	TO15_SFS.qgm	R1738320.qgd	WG1880708,ICAL20743		PA
5	L2403930-04D,3,125.00,250	TO15_SFS.qgm	R1738321.qgd	WG1880708,ICAL20743		PA
5	L2403930-04DUPD,3,125.00,250	TO15_SFS.qgm	R1738322.qgd	WG1880708,ICAL20743		PA
6	L2405547-04,3,250,250	TO15_SFS.qgm	R1738323.qgd	WG1880707,ICAL20745		5CHLOR

Column ID: Rtx-1 0.25 mm ID

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual volume analyzed (mL), nominal volume analyzed

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

Alpha Analytical Air Lab Instrument Run Log

Y
Y
Y
Y
Y
Y
Y
Y
Y
Y
Y

GC/MS VOA
Air Analysis
Selective Ion Monitoring

Volatiles QC Summary

Laboratory Control Sample Summary

Form 3

Air Volatiles

Client : Reliance Environmental, Inc. Lab Number : L2403288
 Project Name : OCEANSIDE PLAZA Project Number : BK-001
 Matrix (Level) : AIR (LOW)
 LCS Sample ID : WG1880236-3 Analysis Date : 01/31/24 12:57 File ID : r1542415_Ev2
 LCSD Sample ID : Analysis Date : File ID :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
Acrolein	5	4.71	94				-	60-113	25
Acrylonitrile	5	4.97	99				-	70-130	25
Bromodichloromethane	5	5.34	107				-	70-130	25
1,1,2-Trichloroethane	5	4.84	97				-	70-130	25
Dibromochloromethane	5	5.26	105				-	70-130	25
1,2-Dibromoethane	5	4.26	85				-	70-130	25
1,1,2,2-Tetrachloroethane	5	4.15	83				-	70-130	25
Benzyl chloride	5	4.73	95				-	70-130	25
Naphthalene	5	4.62	92				-	70-130	25



Method Blank Summary
Form 4
Air Volatiles

Client	: Reliance Environmental, Inc.	Lab Number	: L2403288
Project Name	: OCEANSIDE PLAZA	Project Number	: BK-001
Lab Sample ID	: WG1880236-4	Lab File ID	: r1542417_Ev2
Instrument ID	: AIRLAB15		
Matrix	: AIR	Analysis Date	: 01/31/24 15:02

Client Sample No.	Lab Sample ID	Analysis Date
WG1880236-3LCS	WG1880236-3	01/31/24 12:57
AMBIENT	L2403288-02	01/31/24 17:43
IA-DCR	L2403288-04	01/31/24 18:22
IA-DCF	L2403288-06	01/31/24 19:01
IA-WINE	L2403288-09	01/31/24 19:38
IA-YOGURT	L2403288-11	01/31/24 20:17
AIR DUMMY 50DUP	WG1880236-5	01/31/24 22:53

Instrument Performance Check (Tune) Summary

Form 5

Air Volatiles

Bromofluorobenzene (BFB)

Client : Reliance Environmental, Inc.	Lab Number : L2403288
Project Name : OCEANSIDE PLAZA	Project Number : BK-001
Instrument ID : AIRLAB15	Analysis Date : 11/20/23 19:17
Tune Standard : WG1855600-1	Tune File ID : r1540778_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	14.2
75	30.0 - 66.0% of mass 95	35.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.4 (.6)1
174	50.0 - 120.0% of mass 95	71
175	4.0 - 9.0% of mass 174	5 (7.1)1
176	93.0 - 101% of mass 174	66 (93)1
177	5.0 - 9.0% of mass 176	4.3 (6.5)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.02	R1767101-1	R1540779_EV2	11/20/23 19:52
STD0.05	R1767101-2	R1540780_EV2	11/20/23 20:28
STD0.1	R1767101-3	R1540781_EV2	11/20/23 21:07
STD0.2	R1767101-4	R1540782_EV2	11/20/23 21:44
STD0.5	R1767101-5	R1540783_EV2	11/20/23 22:22
STD1.0	R1767101-6	R1540784_EV2	11/20/23 23:03
STD5.0	R1767101-7	R1540785_EV2	11/20/23 23:42
STD010	R1767101-8	R1540786_EV2	11/21/23 00:23
STD020	R1767101-9	R1540787_EV2	11/21/23 01:00
STD050	R1767101-10	R1540788_EV2	11/21/23 01:39
ICV Quant	R1767101-11	R1540794_EV2	11/21/23 17:20

Instrument Performance Check (Tune) Summary

Form 5

Air Volatiles

Bromofluorobenzene (BFB)

Client : Reliance Environmental, Inc.	Lab Number : L2403288
Project Name : OCEANSIDE PLAZA	Project Number : BK-001
Instrument ID : AIRLAB15	Analysis Date : 01/31/24 10:56
Tune Standard : WG1880236-1	Tune File ID : r1542412_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	17.5
75	30.0 - 66.0% of mass 95	40.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.4 (.6)1
174	50.0 - 120.0% of mass 95	58.3
175	4.0 - 9.0% of mass 174	4.1 (7.1)1
176	93.0 - 101% of mass 174	57.2 (98.1)1
177	5.0 - 9.0% of mass 176	3.7 (6.4)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1880236-2CCAL	WG1880236-2	R1542415_EV2	01/31/24 12:57
WG1880236-3LCS	WG1880236-3	R1542415_EV2	01/31/24 12:57
WG1880236-4BLANK	WG1880236-4	R1542417_EV2	01/31/24 15:02
AMBIENT	L2403288-02	R1542418_EV2	01/31/24 17:43
IA-DCR	L2403288-04	R1542419_EV2	01/31/24 18:22
IA-DCF	L2403288-06	R1542420_EV2	01/31/24 19:01
IA-WINE	L2403288-09	R1542421_EV2	01/31/24 19:38
IA-YOGURT	L2403288-11	R1542422_EV2	01/31/24 20:17
WG1880236-5DUP	WG1880236-5	R1542426_EV2	01/31/24 22:53

Internal Standard Area and RT Summary

Form 8a

Air Volatiles

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRLAB15
 Sample No : WG1880236-2

Lab Number : L2403288
 Project Number : BK-001
 Analysis Date : 01/31/24 12:57:00
 Lab File ID : R1542415_EV2

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG1880236-2	224563	9.13	616226	11.34	113391	16.04
Upper Limit	314388	9.46	862716	11.67	158747	16.37
Lower Limit	134738	8.80	369736	11.01	68035	15.71
Sample ID						
WG1880236-3 LCS	224563	9.13	616226	11.34	113391	16.04
WG1880236-4 BLANK	214426	9.13	556439	11.34	102633	16.04
AMBIENT	221073	9.13	568890	11.34	107713	16.04
IA-DCR	217061	9.13	570185	11.34	109225	16.04
IA-DCF	217296	9.13	565573	11.34	109120	16.04
IA-WINE	219568	9.13	572171	11.34	109931	16.04
IA-YOGURT	210892	9.13	552911	11.34	107500	16.04
AIR DUMMY 50 DUP	218176	9.13	585707	11.34	110659	16.04

Area Upper Limit = +40% of internal standard area
 Area Lower Limit = - 40% of internal standard area

RT Upper Limit = +0.33 minutes of internal standard RT
 RT Lower Limit = -0.33 minutes of internal standard RT

* Values outside of QC limits





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Volatile Organics in Air by TO-15 SIM (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,1,1-Trichloroethane	71-55-6	0.02	0.0059	ppbV	70-130	25		25	25			
1,1,1,2-Tetrachloroethane	630-20-6	0.02	0.01	ppbV	70-130	25		25	25			
1,1,2,2-Tetrachloroethane	79-34-5	0.02	0.0067	ppbV	70-130	25		25	25			
1,1,2-Trichloroethane	79-00-5	0.02	0.0097	ppbV	70-130	25		25	25			
1,1-Dichloroethane	75-34-3	0.02	0.0086	ppbV	70-130	25		25	25			
1,1-Dichloroethene	75-35-4	0.02	0.0077	ppbV	70-130	25		25	25			
1,2,3-Trichloropropane	96-18-4	0.02	0.0073	ppbV	70-130	25		25	25			
1,2,4-Trimethylbenzene	95-63-6	0.02	0.0076	ppbV	70-130	25		25	25			
1,2-Dibromoethane	106-93-4	0.02	0.0091	ppbV	70-130	25		25	25			
1,2-Dibromo-3-chloropropane	96-12-8	0.02	0.0124	ppbV	70-130	25		25	25			
1,2-Dichlorobenzene	95-50-1	0.02	0.0062	ppbV	70-130	25		25	25			
1,2-Dichloroethane	107-06-2	0.02	0.0083	ppbV	70-130	25		25	25			
1,2-Dichloropropane	78-87-5	0.02	0.0083	ppbV	70-130	25		25	25			
1,3,5-Trimethylbenzene	108-67-8	0.02	0.0096	ppbV	70-130	25		25	25			
1,3-Butadiene	106-99-0	0.02	0.0106	ppbV	70-130	25		25	25			
1,3-Dichlorobenzene	541-73-1	0.02	0.0077	ppbV	70-130	25		25	25			
1,4-Dichlorobenzene	106-46-7	0.02	0.0075	ppbV	70-130	25		25	25			
1,4-Dioxane	123-91-1	0.1	0.0344	ppbV	70-130	25		25	25			
1-Bromo-2-Chloroethane	107-04-0	0.02	0.0102	ppbV	70-130	25		25	25			
1-Bromo-3-Fluorobenzene	1073-06-9	0.02	0.0065	ppbV	70-130	25		25	25			
1-Bromo-4-Ethylbenzene	1585-07-5	0.05	0.004	ppbV	70-130	25		25	25			
2,2,4-Trimethylpentane	540-84-1	0.2	0.037	ppbV	70-130	25		25	25			
2-Bromopyridine	109-04-6	0.5	0.0161	ppbV	30-150	25		25	25			
2-Hexanone	591-78-6	0.2	0.0354	ppbV	70-130	25		25	25			
3,4-Dichlorobenzotrifluoride	328-84-7	0.02	0.0024	ppbV	70-130	25		25	25			
3-Amino-4-Chlorobenzotrifluoride	121-50-6	1.25	0.0178	ppbV	30-150	25		25	25			
3-Chloropropene	107-05-1	0.2	0.0327	ppbV	70-130	25		25	25			
3-Nitro-4-Chlorobenzotrifluoride	121-17-5	2.5	0.129	ppbV	30-150	25		25	25			
4-Bromofluorobenzene	460-00-4	0.2	0.0094	ppbV	70-130	25		25	25			
4-Chlorobenzotrifluoride	98-56-6	0.02	0.006	ppbV	70-130	25		25	25			
4-Ethyltoluene	622-96-8	0.02	0.0099	ppbV	70-130	25		25	25			
Benzene	71-43-2	0.1	0.0298	ppbV	70-130	25		25	25			
Benzyl chloride	100-44-7	0.1	0.0332	ppbV	70-130	25		25	25			
Bromobenzene	108-86-1	0.2	0.0262	ppbV	70-130	25		25	25			
Bromodichloromethane	75-27-4	0.02	0.0074	ppbV	70-130	25		25	25			
Bromoform	75-25-2	0.02	0.0111	ppbV	70-130	25		25	25			
Bromomethane	74-83-9	0.02	0.0094	ppbV	70-130	25		25	25			
Carbon disulfide	75-15-0	0.2	0.0316	ppbV	70-130	25		25	25			
Carbon tetrachloride	56-23-5	0.02	0.011	ppbV	70-130	25		25	25			
Chlorobenzene	108-90-7	0.1	0.0258	ppbV	70-130	25		25	25			
Chloroethane	75-00-3	0.1	0.0395	ppbV	70-130	25		25	25			
Chloroform	67-66-3	0.02	0.0071	ppbV	70-130	25		25	25			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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File: PM15856-1
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Volatile Organics in Air by TO-15 SIM (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Chloromethane	74-87-3	0.2	0.0756	ppbV	70-130	25		25	25			
cis-1,2-Dichloroethene	156-59-2	0.02	0.0102	ppbV	70-130	25		25	25			
trans-1,2-Dichloroethene	156-60-5	0.02	0.009	ppbV	70-130	25		25	25			
1,2-Dichloroethene (total)	540-59-0	0.02	0.009	ppbV				25	25			
cis-1,3-Dichloropropene	10061-01-5	0.02	0.0118	ppbV	70-130	25		25	25			
1,3-Dichloropropene, Total	542-75-6	0.02	0.0115	ppbV				25	25			
Cyclohexane	110-82-7	0.2	0.0313	ppbV	70-130	25		25	25			
Dibromochloromethane	124-48-1	0.02	0.008	ppbV	70-130	25		25	25			
Dibromomethane	74-95-3	0.2	0.0251	ppbV	70-130	25		25	25			
Dichlorodifluoromethane	75-71-8	0.2	0.0499	ppbV	70-130	25		25	25			
Ethyl Alcohol	GCDAl06	5	1.35	ppbV	40-160	25		25	25			
Ethyl Acetate	141-78-6	0.5	0.323	ppbV	70-130	25		25	25			
Ethylbenzene	100-41-4	0.02	0.0085	ppbV	70-130	25		25	25			
Fluorobenzene	462-06-6	0.05	0.009	ppbV	70-130	25		25	25			
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	0.05	0.0083	ppbV	70-130	25		25	25			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	0.05	0.0064	ppbV	70-130	25		25	25			
Methylcyclohexane	108-87-2	0.02	0.0051	ppbV	70-130	25		25	25			
Methylene chloride	75-09-2	0.5	0.11	ppbV	70-130	25		25	25			
Methyl tert butyl ether	1634-04-4	0.2	0.0261	ppbV	70-130	25		25	25			
m/p-Dibromobenzene	108-36-1/106-37-6	0.5	0.0137	ppbV	70-130	25		25	25			
Naphthalene	91-20-3	0.05	0.021	ppbV	70-130	25		25	25			
p/m-Xylene	179601-23-1	0.04	0.018	ppbV	70-130	25		25	25			
o-Xylene	95-47-6	0.02	0.0087	ppbV	70-130	25		25	25			
Heptane	142-82-5	0.2	0.0313	ppbV	70-130	25		25	25			
n-Hexane	110-54-3	0.2	0.0471	ppbV	70-130	25		25	25			
Propylene	115-07-1	0.5	0.167	ppbV	70-130	25		25	25			
Styrene	100-42-5	0.02	0.0079	ppbV	70-130	25		25	25			
tert-Butyl Alcohol	75-65-0	0.5	0.134	ppbV	70-130	25		25	25			
Tetrachloroethene	127-18-4	0.02	0.0074	ppbV	70-130	25		25	25			
Tetrahydrofuran	109-99-9	0.5	0.142	ppbV	70-130	25		25	25			
Toluene	108-88-3	0.1	0.0166	ppbV	70-130	25		25	25			
trans-1,3-Dichloropropene	10061-02-6	0.02	0.0115	ppbV	70-130	25		25	25			
Trichloroethene	79-01-6	0.02	0.006	ppbV	70-130	25		25	25			
1,2,4-Trichlorobenzene	120-82-1	0.05	0.0146	ppbV	70-130	25		25	25			
Trichlorofluoromethane	75-69-4	0.05	0.0092	ppbV	70-130	25		25	25			
Vinyl acetate	108-05-4	1	0.286	ppbV	70-130	25		25	25			
Vinyl bromide	593-60-2	0.2	0.0431	ppbV	70-130	25		25	25			
Hexachlorobutadiene	87-68-3	0.05	0.011	ppbV	70-130	25		25	25			
iso-Propyl Alcohol	67-63-0	0.5	0.249	ppbV	40-160	25		25	25			
Vinyl chloride	75-01-4	0.02	0.0088	ppbV	70-130	25		25	25			
Acrylonitrile	107-13-1	0.5	0.162	ppbV	70-130	25		25	25			
n-Butylbenzene	104-51-8	0.2	0.0319	ppbV	70-130	25		25	25			

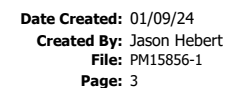
Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



Volatiles Sample Data

Results Summary

Form 1

Volatile Organics in Air by SIM

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L2403288-02
 Client ID : AMBIENT
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R1542418_EV2
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 16:08
 Date Received : 01/19/24
 Date Analyzed : 01/31/24 17:43
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-02-8	Acrolein	0.229	0.050	0.039	0.525	0.115	0.089	
107-13-1	Acrylonitrile	ND	0.500	0.162	ND	1.09	0.352	U
75-27-4	Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.050	U
79-00-5	1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.053	U
124-48-1	Dibromochloromethane	ND	0.020	0.008	ND	0.170	0.068	U
106-93-4	1,2-Dibromoethane	ND	0.020	0.009	ND	0.154	0.070	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.020	0.007	ND	0.137	0.046	U
100-44-7	Benzyl chloride	ND	0.100	0.033	ND	0.518	0.172	U
91-20-3	Naphthalene	ND	0.050	0.021	ND	0.262	0.110	U

Results Summary

Form 1

Volatile Organics in Air by SIM

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L2403288-04
 Client ID : IA-DCR
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R1542419_EV2
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 16:50
 Date Received : 01/19/24
 Date Analyzed : 01/31/24 18:22
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-02-8	Acrolein	0.504	0.050	0.039	1.16	0.115	0.089	
107-13-1	Acrylonitrile	ND	0.500	0.162	ND	1.09	0.352	U
75-27-4	Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.050	U
79-00-5	1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.053	U
124-48-1	Dibromochloromethane	ND	0.020	0.008	ND	0.170	0.068	U
106-93-4	1,2-Dibromoethane	ND	0.020	0.009	ND	0.154	0.070	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.020	0.007	ND	0.137	0.046	U
100-44-7	Benzyl chloride	ND	0.100	0.033	ND	0.518	0.172	U
91-20-3	Naphthalene	ND	0.050	0.021	ND	0.262	0.110	U

Results Summary

Form 1

Volatile Organics in Air by SIM

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L2403288-06
 Client ID : IA-DCF
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R1542420_EV2
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 16:54
 Date Received : 01/19/24
 Date Analyzed : 01/31/24 19:01
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-02-8	Acrolein	0.211	0.050	0.039	0.484	0.115	0.089	
107-13-1	Acrylonitrile	ND	0.500	0.162	ND	1.09	0.352	U
75-27-4	Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.050	U
79-00-5	1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.053	U
124-48-1	Dibromochloromethane	ND	0.020	0.008	ND	0.170	0.068	U
106-93-4	1,2-Dibromoethane	ND	0.020	0.009	ND	0.154	0.070	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.020	0.007	ND	0.137	0.046	U
100-44-7	Benzyl chloride	ND	0.100	0.033	ND	0.518	0.172	U
91-20-3	Naphthalene	ND	0.050	0.021	ND	0.262	0.110	U

Results Summary

Form 1

Volatile Organics in Air by SIM

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L2403288-09
 Client ID : IA-WINE
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R1542421_EV2
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 18:36
 Date Received : 01/19/24
 Date Analyzed : 01/31/24 19:38
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-02-8	Acrolein	0.234	0.050	0.039	0.537	0.115	0.089	
107-13-1	Acrylonitrile	ND	0.500	0.162	ND	1.09	0.352	U
75-27-4	Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.050	U
79-00-5	1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.053	U
124-48-1	Dibromochloromethane	ND	0.020	0.008	ND	0.170	0.068	U
106-93-4	1,2-Dibromoethane	ND	0.020	0.009	ND	0.154	0.070	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.020	0.007	ND	0.137	0.046	U
100-44-7	Benzyl chloride	ND	0.100	0.033	ND	0.518	0.172	U
91-20-3	Naphthalene	ND	0.050	0.021	ND	0.262	0.110	U

Results Summary

Form 1

Volatile Organics in Air by SIM

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L2403288-11
 Client ID : IA-YOGURT
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R1542422_EV2
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : 01/18/24 18:58
 Date Received : 01/19/24
 Date Analyzed : 01/31/24 20:17
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-02-8	Acrolein	0.228	0.050	0.039	0.523	0.115	0.089	
107-13-1	Acrylonitrile	ND	0.500	0.162	ND	1.09	0.352	U
75-27-4	Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.050	U
79-00-5	1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.053	U
124-48-1	Dibromochloromethane	0.010	0.020	0.008	0.085	0.170	0.068	J
106-93-4	1,2-Dibromoethane	ND	0.020	0.009	ND	0.154	0.070	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.020	0.007	ND	0.137	0.046	U
100-44-7	Benzyl chloride	ND	0.100	0.033	ND	0.518	0.172	U
91-20-3	Naphthalene	ND	0.050	0.021	ND	0.262	0.110	U

Results Summary

Form 1

Volatile Organics in Air by SIM

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : WG1880236-4
 Client ID : WG1880236-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R1542417_EV2
 Sample Amount : 250 ml

Lab Number : L2403288
 Project Number : BK-001
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 01/31/24 15:02
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-02-8	Acrolein	ND	0.050	0.039	ND	0.115	0.089	U
107-13-1	Acrylonitrile	ND	0.500	0.162	ND	1.09	0.352	U
75-27-4	Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.050	U
79-00-5	1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.053	U
124-48-1	Dibromochloromethane	ND	0.020	0.008	ND	0.170	0.068	U
106-93-4	1,2-Dibromoethane	ND	0.020	0.009	ND	0.154	0.070	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.020	0.007	ND	0.137	0.046	U
100-44-7	Benzyl chloride	ND	0.100	0.033	ND	0.518	0.172	U
91-20-3	Naphthalene	ND	0.050	0.021	ND	0.262	0.110	U

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\
 Data File : r1542418_Ev2.D
 Acq On : 31 Jan 2024 5:43 PM
 Operator : AIRLAB15:JMB
 Sample : L2403288-02,3,250,250
 Misc : WG1880236,ICAL20577
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 06:41:34 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 16:16:05 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\r1542415_Ev2.D
 Sub List : 9_PA_SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.125	49	221073	10.000	ppbV	0.06
Standard Area = 224563			Recovery =		98.45%	
33) 1,4-difluorobenzene	11.340	114	568890	10.000	ppbV	0.05
Standard Area = 616226			Recovery =		92.32%	
51) chlorobenzene-D5	16.042	54	107713	10.000	ppbV	0.04
Standard Area = 113391			Recovery =		94.99%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue	
12) acrolein	5.567	56	1280	0.229	ppbV	#	84
16) acrylonitrile	0.000		0	N.D.	d		
42) bromodichloromethane	11.967		0	N.D.			
50) 1,1,2-trichloroethane	13.975		0	N.D.			
55) dibromochloromethane	14.750		0	N.D.			
56) 1,2-dibromoethane	0.000		0	N.D.			
64) 1,1,2,2-tetrachloroethane	16.933		0	N.D.			
74) Benzyl Chloride	18.625		0	N.D.			
83) naphthalene	20.608	128	1294	0.015	ppbV	#	76

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

Sub List : 9_PA_SIM - .\Data\AirLab15\2024\01\0131SIM\r1542415_Ev2.D

Data Path : 0:\Forensics\Data\AirLab15\2024\01\0131SIM\

Data File : r1542418_Ev2.D

Acq On : 31 Jan 2024 5:43 PM

Operator : AIRLAB15:JMB

Sample : L2403288-02,3,250,250

Misc : WG1880236,ICAL20577

ALS Vial : 0 Sample Multiplier: 1

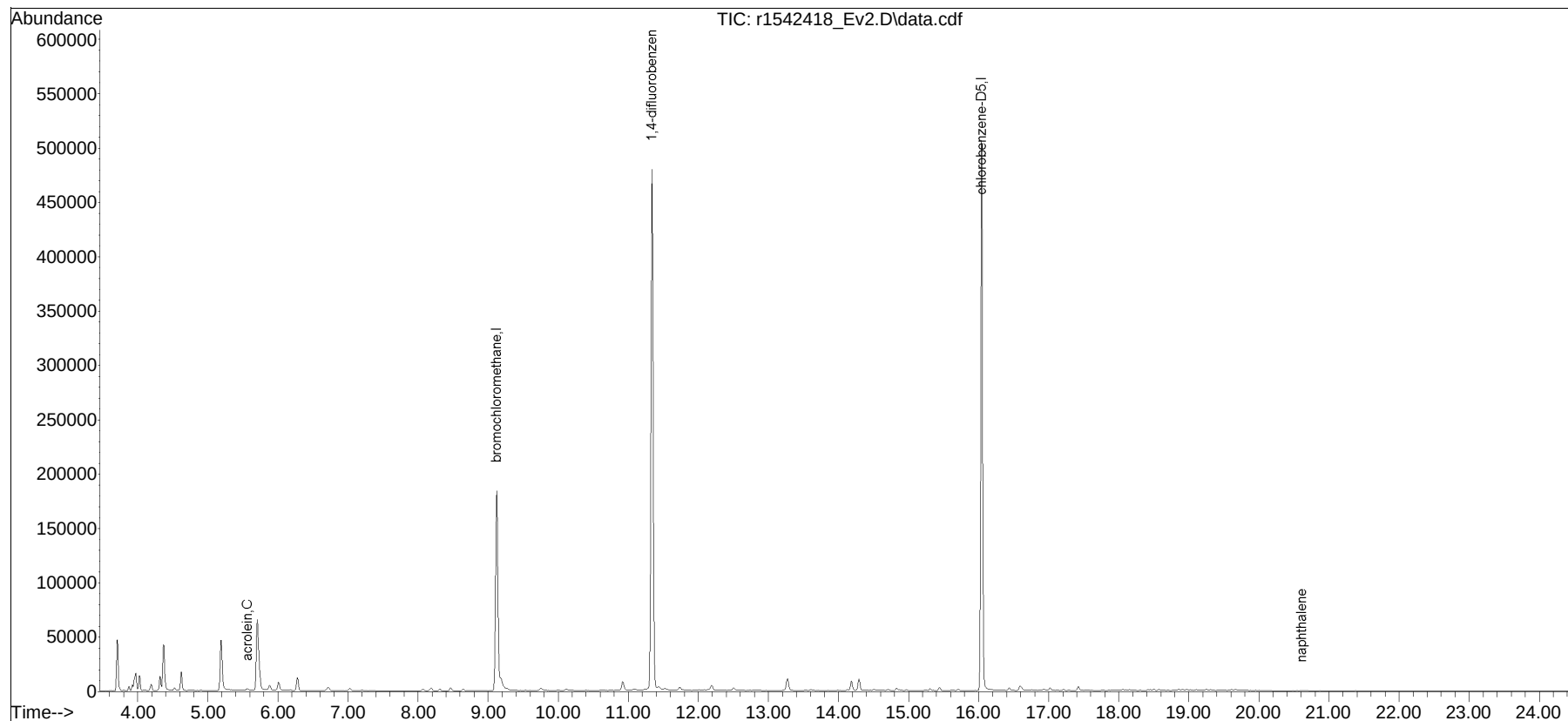
Quant Time: Feb 01 06:41:34 2024

Quant Method : 0:\Forensics\Data\AirLab15\2024\01\0131SIM\TSIM15_231120.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

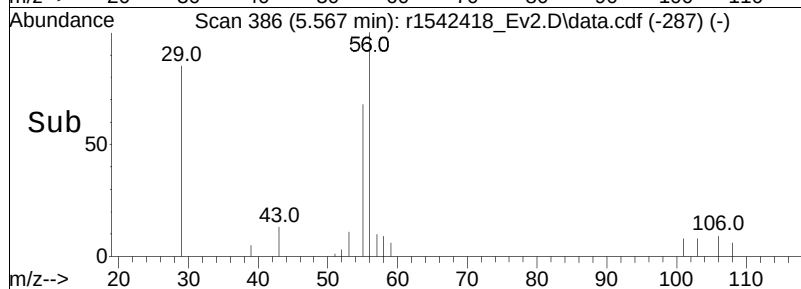
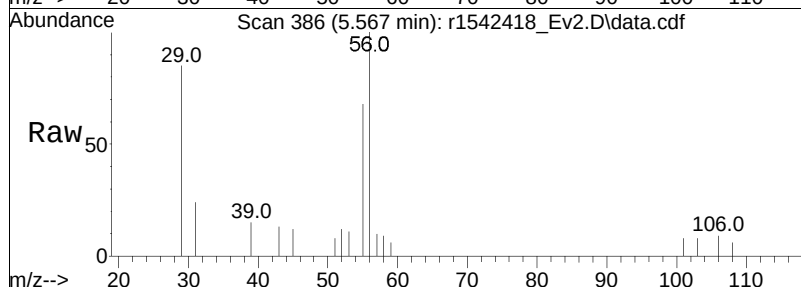
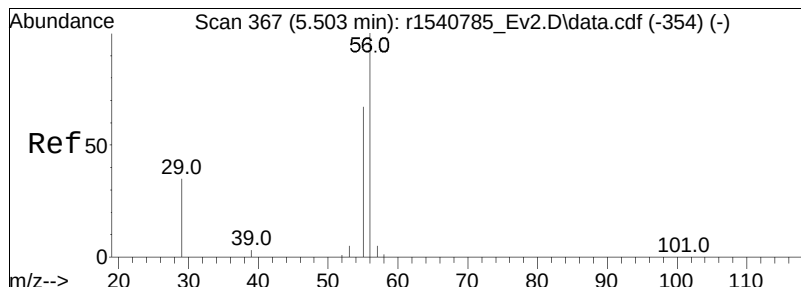
QLast Update : Tue Nov 21 16:16:05 2023

Response via : Initial Calibration



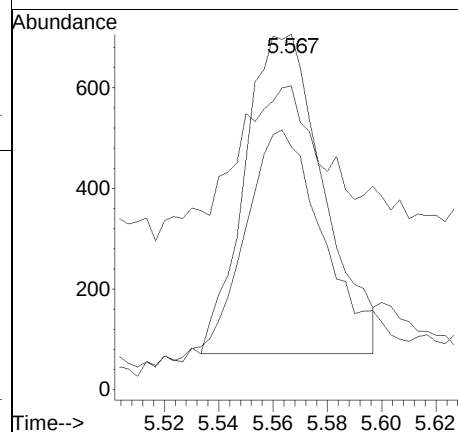
TSIM15_231120.M Thu Feb 01 13:55:58 2024

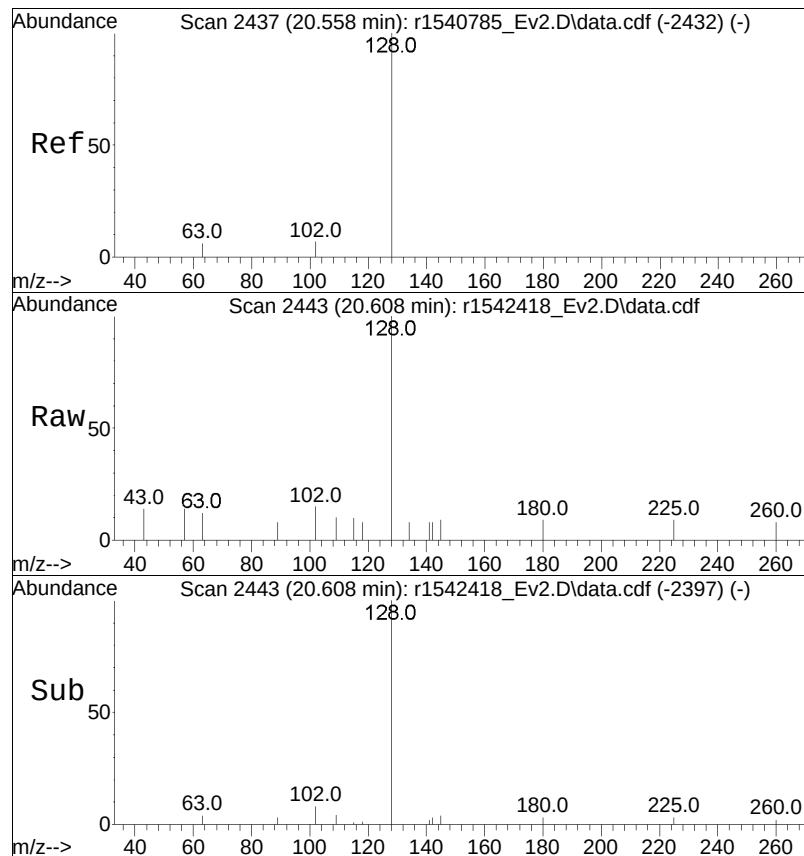
Page: 2



#12
acrolein
Concen: 0.23 ppbV
RT: 5.567 min Scan# 386
Delta R.T. 0.063 min
Lab File: r1542418_Ev2.D
Acq: 31 Jan 2024 5:43 PM

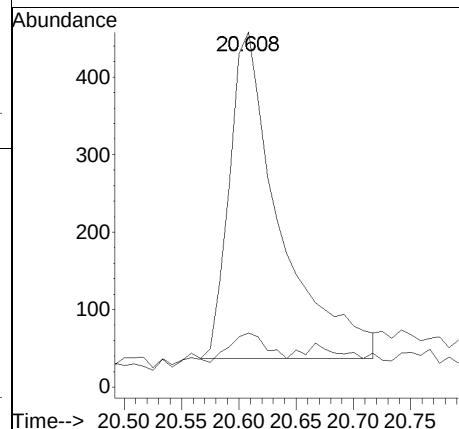
Tgt Ion: 56 Resp: 1280
Ion Ratio Lower Upper
56 100
55 70.6 55.4 83.2
29 10.3 28.8 43.2#





#83
 naphthalene
 Concen: 0.01 ppbV
 RT: 20.608 min Scan# 2443
 Delta R.T. 0.050 min
 Lab File: r1542418_Ev2.D
 Acq: 31 Jan 2024 5:43 PM

Tgt	Ion	Ratio	Lower	Upper
128	100			
102	15.3	5.7	8.5	



Manual Integration Report

Data Path	: 0:\Forensics\Data\Airlab15Q	Method	: TSIM15_231120.M
Data File	: r1542418_Ev2.D	Operator	: AIRLAB15:JMB
Date Inj'd	: 1/31/2020 0:5: 3	Instrument	:
Sample	: L2403288-02,3,250,250	Quant Date	: 2/1/2024 6:41 am

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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\
 Data File : r1542419_Ev2.D
 Acq On : 31 Jan 2024 6:22 PM
 Operator : AIRLAB15:JMB
 Sample : L2403288-04,3,250,250
 Misc : WG1880236,ICAL20577
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 06:42:19 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 16:16:05 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\r1542415_Ev2.D
 Sub List : 9_PA_SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.125	49	217061	10.000	ppbV	0.06
Standard Area = 224563			Recovery =		96.66%	
33) 1,4-difluorobenzene	11.340	114	570185	10.000	ppbV #	0.05
Standard Area = 616226			Recovery =		92.53%	
51) chlorobenzene-D5	16.042	54	109225	10.000	ppbV	0.04
Standard Area = 113391			Recovery =		96.33%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) acrolein	5.567	56	2761	0.504	ppbV	95
16) acrylonitrile	0.000		0	N.D.	d	
42) bromodichloromethane	12.100		0	N.D.		
50) 1,1,2-trichloroethane	0.000		0	N.D.		
55) dibromochloromethane	14.733		0	N.D.		
56) 1,2-dibromoethane	0.000		0	N.D.		
64) 1,1,2,2-tetrachloroethane	16.933		0	N.D.		
74) Benzyl Chloride	18.625		0	N.D.		
83) naphthalene	20.600	128	1241	0.014	ppbV #	89

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

Sub List : 9_PA_SIM - .\Data\AirLab15\2024\01\0131SIM\r1542415_Ev2.D

Data Path : 0:\Forensics\Data\AirLab15\2024\01\0131SIM\

Data File : r1542419_Ev2.D

Acq On : 31 Jan 2024 6:22 PM

Operator : AIRLAB15:JMB

Sample : L2403288-04,3,250,250

Misc : WG1880236,ICAL20577

ALS Vial : 0 Sample Multiplier: 1

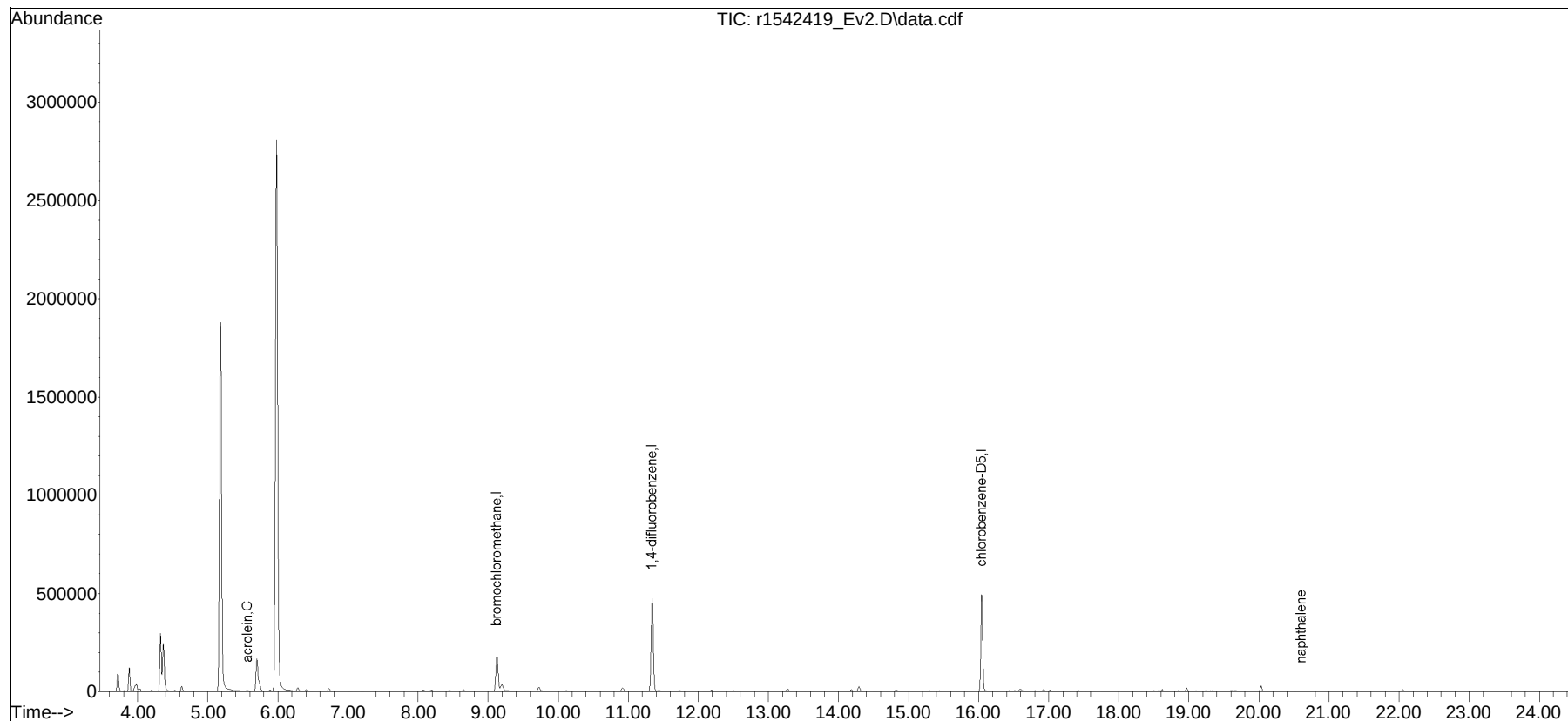
Quant Time: Feb 01 06:42:19 2024

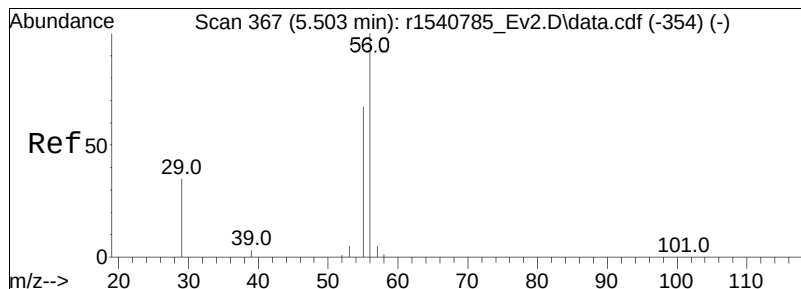
Quant Method : 0:\Forensics\Data\AirLab15\2024\01\0131SIM\TSIM15_231120.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

QLast Update : Tue Nov 21 16:16:05 2023

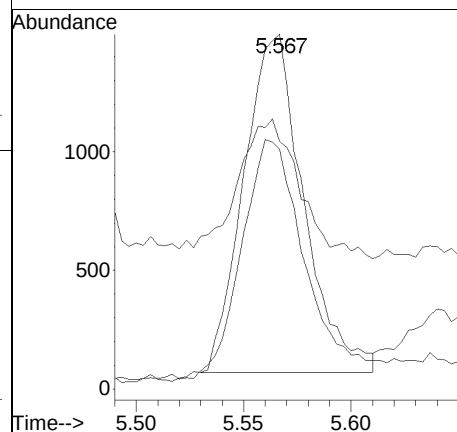
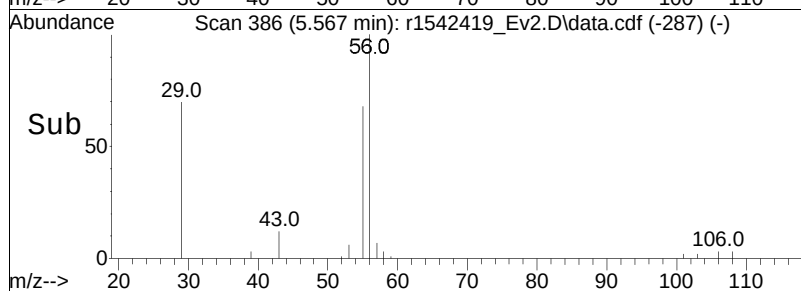
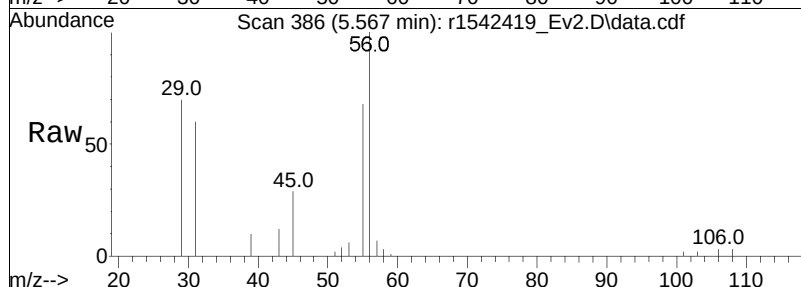
Response via : Initial Calibration

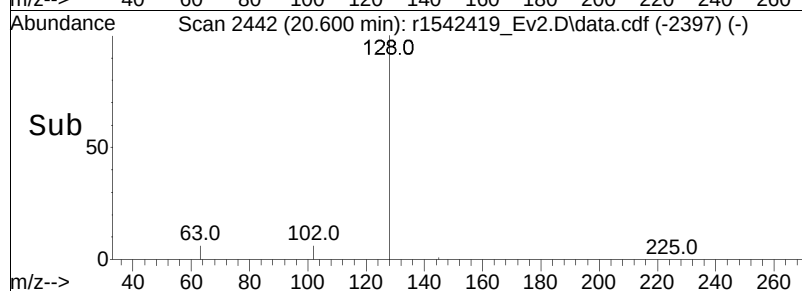
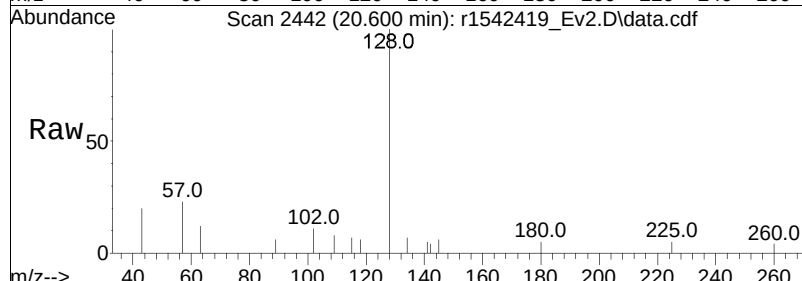
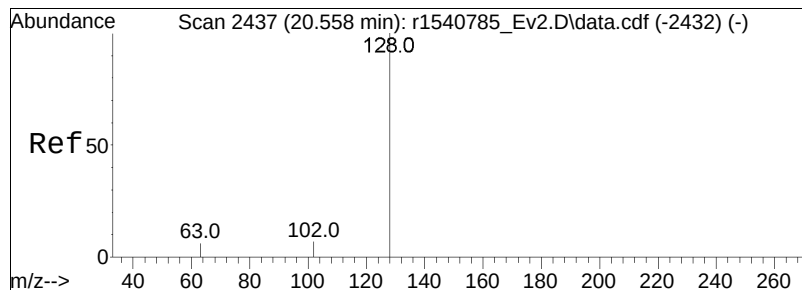




#12
acrolein
Concen: 0.50 ppbV
RT: 5.567 min Scan# 386
Delta R.T. 0.063 min
Lab File: r1542419_Ev2.D
Acq: 31 Jan 2024 6:22 PM

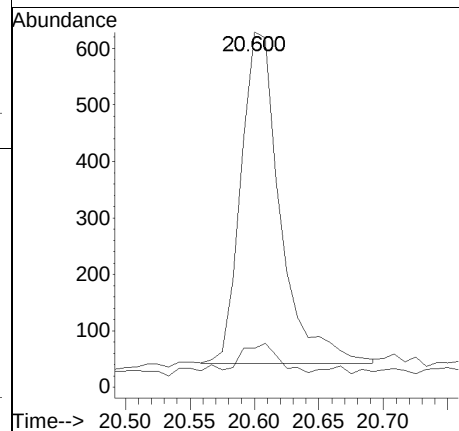
Tgt Ion	Ratio	Resp	Lower	Upper
56	100	2761		
55	73.7		55.4	83.2
29	32.7		28.8	43.2





#83
naphthalene
Concen: 0.01 ppbV
RT: 20.600 min Scan# 2442
Delta R.T. 0.042 min
Lab File: r1542419_Ev2.D
Acq: 31 Jan 2024 6:22 PM

Tgt Ion	Ratio	Lower	Upper
128	100		
102	11.0	5.7	8.5#



Manual Integration Report

Data Path	: 0:\Forensics\Data\Airlab15Q	Method	: TSIM15_231120.M
Data File	: r1542419_Ev2.D	Operator	: AIRLAB15:JMB
Date Inj'd	: 1/31/2020 0:6: 2	Instrument	:
Sample	: L2403288-04,3,250,250	Quant Date	: 2/1/2024 6:42 am

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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\
 Data File : r1542420_Ev2.D
 Acq On : 31 Jan 2024 7:01 PM
 Operator : AIRLAB15:JMB
 Sample : L2403288-06,3,250,250
 Misc : WG1880236,ICAL20577
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 06:43:18 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 16:16:05 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\r1542415_Ev2.D
 Sub List : 9_PA_SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.125	49	217296	10.000	ppbV	0.06
Standard Area = 224563			Recovery =		96.76%	
33) 1,4-difluorobenzene	11.340	114	565573M6	10.000	ppbV	0.05
Standard Area = 616226			Recovery =		91.78%	
51) chlorobenzene-D5	16.042	54	109120	10.000	ppbV	0.04
Standard Area = 113391			Recovery =		96.23%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue	
12) acrolein	5.557	56	1160	0.211	ppbV	#	83
16) acrylonitrile	6.273		0	N.D.			
42) bromodichloromethane	12.000		0	N.D.			
50) 1,1,2-trichloroethane	0.000		0	N.D.			
55) dibromochloromethane	0.000		0	N.D.			
56) 1,2-dibromoethane	0.000		0	N.D.			
64) 1,1,2,2-tetrachloroethane	16.933		0	N.D.			
74) Benzyl Chloride	18.625		0	N.D.			
83) naphthalene	20.608	128	1274	0.014	ppbV	#	95

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

Sub List : 9_PA_SIM - .\Data\AirLab15\2024\01\0131SIM\r1542415_Ev2.D

Data Path : 0:\Forensics\Data\AirLab15\2024\01\0131SIM\

Data File : r1542420_Ev2.D

Acq On : 31 Jan 2024 7:01 PM

Operator : AIRLAB15:JMB

Sample : L2403288-06,3,250,250

Misc : WG1880236,ICAL20577

ALS Vial : 0 Sample Multiplier: 1

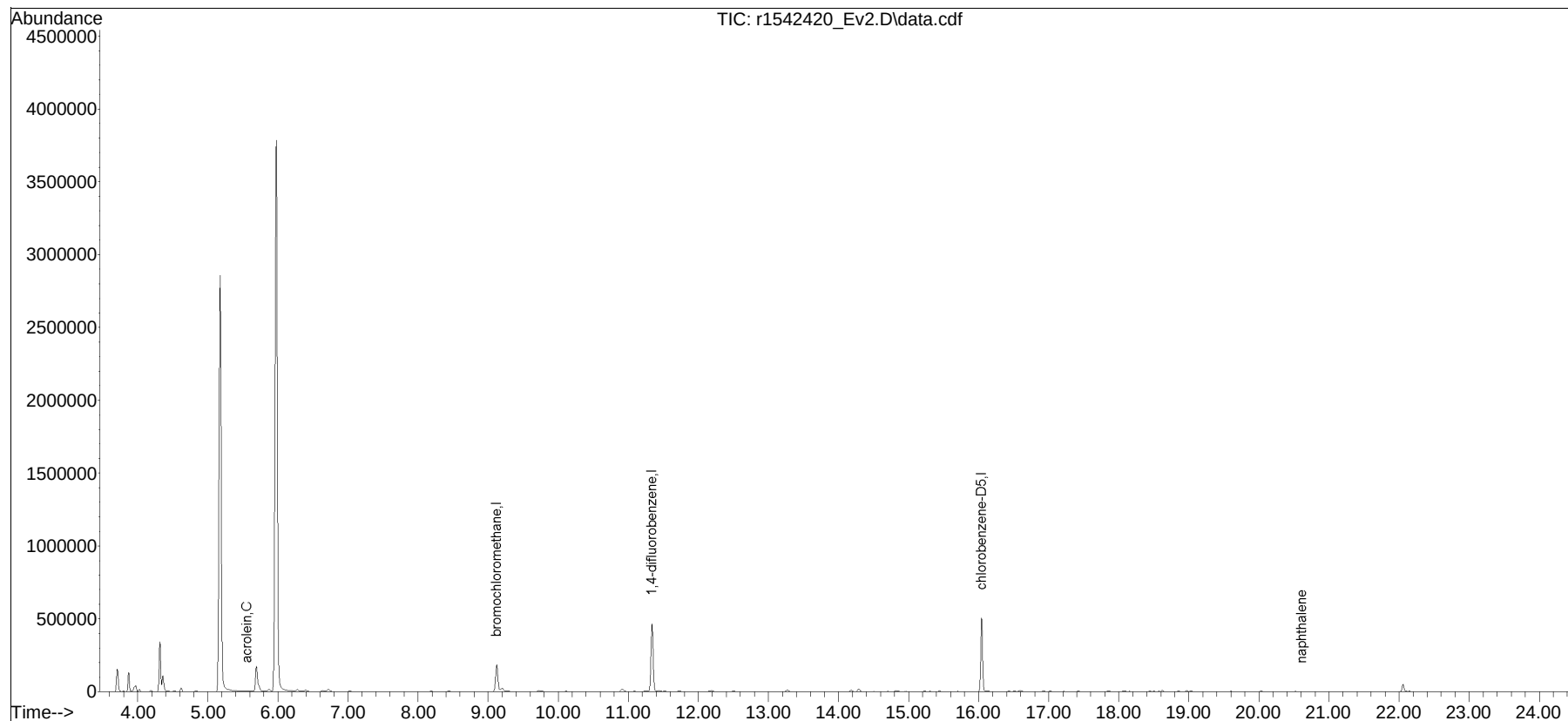
Quant Time: Feb 01 06:43:18 2024

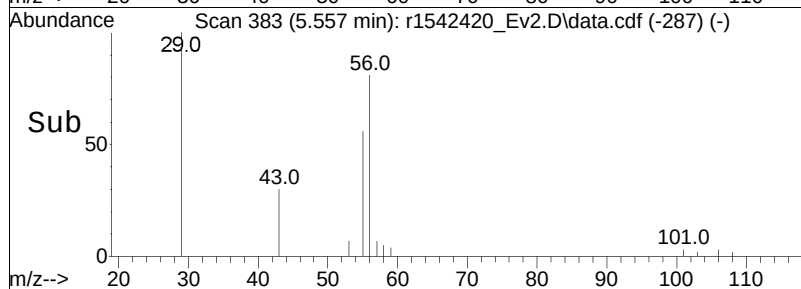
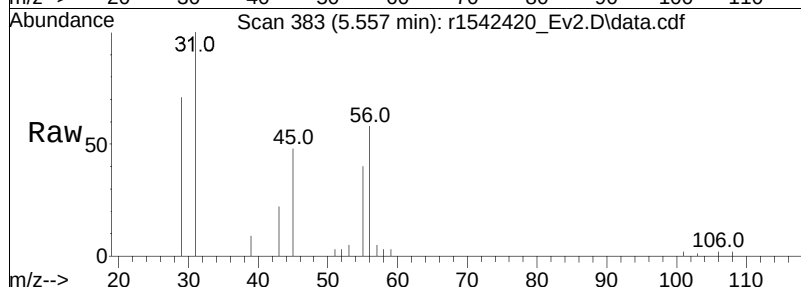
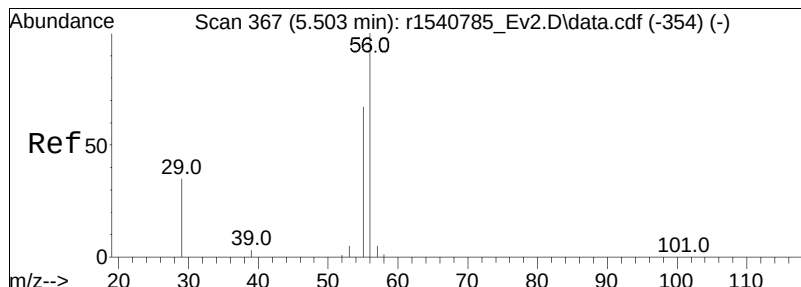
Quant Method : 0:\Forensics\Data\AirLab15\2024\01\0131SIM\TSIM15_231120.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

QLast Update : Tue Nov 21 16:16:05 2023

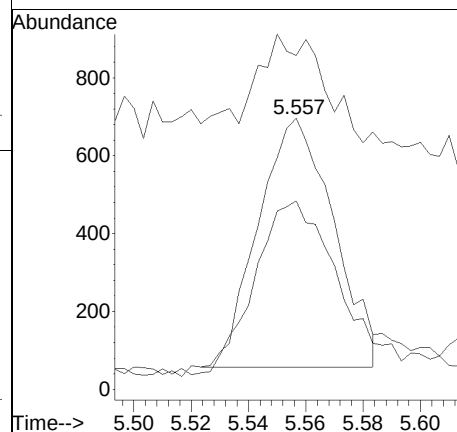
Response via : Initial Calibration

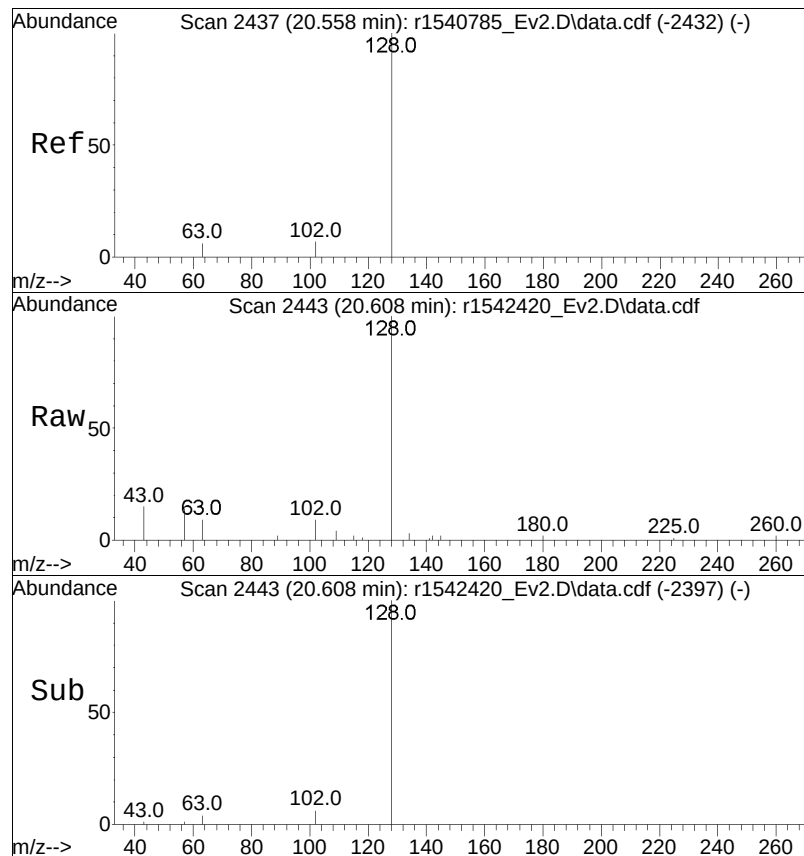




#12
acrolein
Concen: 0.21 ppbV
RT: 5.557 min Scan# 383
Delta R.T. 0.053 min
Lab File: r1542420_Ev2.D
Acq: 31 Jan 2024 7:01 PM

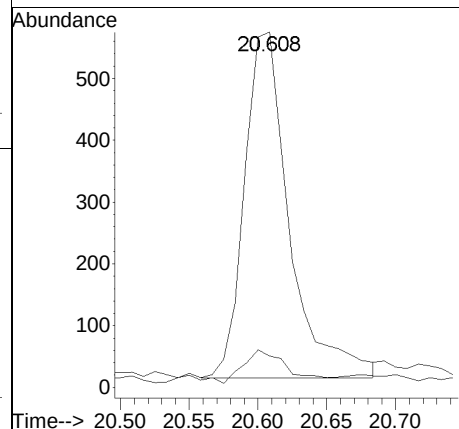
Tgt Ion: 56 Resp: 1160
Ion Ratio Lower Upper
56 100
55 76.3 55.4 83.2
29 16.5 28.8 43.2#





#83
 naphthalene
 Concen: 0.01 ppbV
 RT: 20.608 min Scan# 2443
 Delta R.T. 0.050 min
 Lab File: r1542420_Ev2.D
 Acq: 31 Jan 2024 7:01 PM

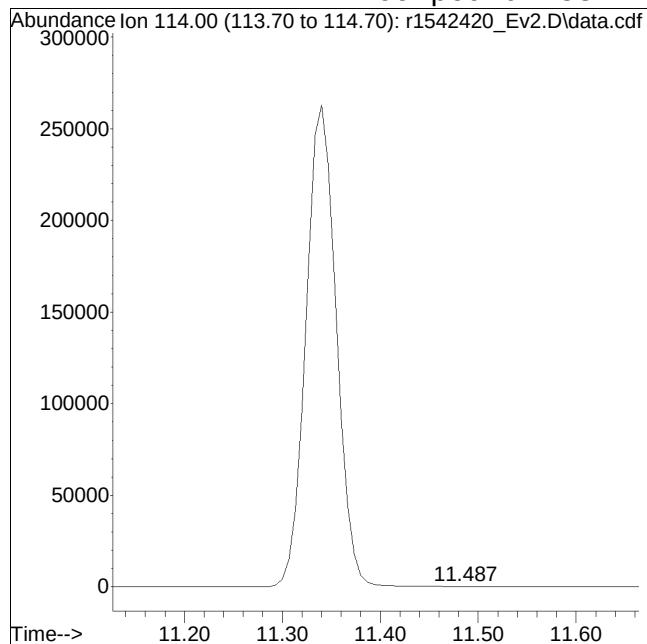
Tgt Ion	Ratio	Lower	Upper
128	100		
102	8.9	5.7	8.5#



Manual Integration Report

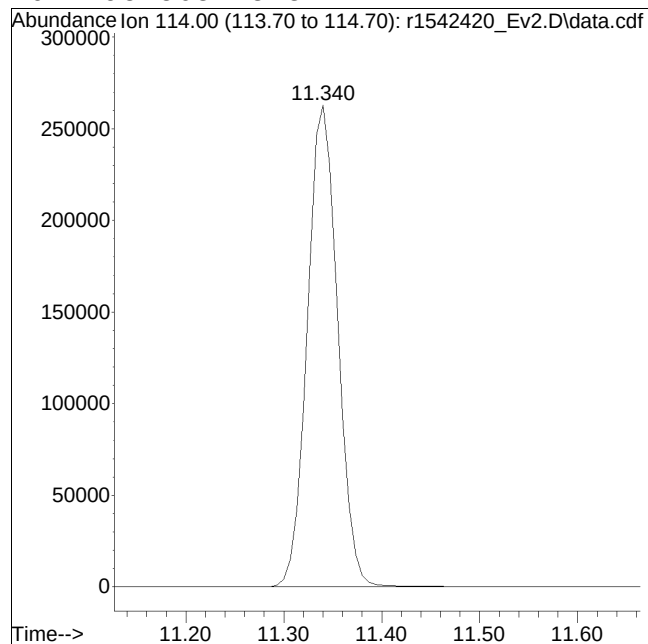
Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1542420_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 1/31/2020 0:7: 1 Instrument :
Sample : L2403288-06,3,250,250 Quant Date : 2/1/2024 6:43 am

Compound #33: 1,4-difluorobenzene



Original Peak Response = 80

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



Manual Peak Response = 565573 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\
 Data File : r1542421_Ev2.D
 Acq On : 31 Jan 2024 7:38 PM
 Operator : AIRLAB15:JMB
 Sample : L2403288-09,3,250,250
 Misc : WG1880236,ICAL20577
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 06:44:24 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 16:16:05 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\r1542415_Ev2.D
 Sub List : 9_PA_SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.125	49	219568	10.000	ppbV	0.06
Standard Area = 224563			Recovery =		97.78%	
33) 1,4-difluorobenzene	11.340	114	572171	10.000	ppbV	# 0.05
Standard Area = 616226			Recovery =		92.85%	
51) chlorobenzene-D5	16.042	54	109931	10.000	ppbV	0.04
Standard Area = 113391			Recovery =		96.95%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) acrolein	5.557	56	1300	0.234	ppbV	# 87
16) acrylonitrile	6.277	53	199	0.017	ppbV	# 51
42) bromodichloromethane	12.080		0	N.D.		
50) 1,1,2-trichloroethane	0.000		0	N.D.		
55) dibromochloromethane	0.000		0	N.D.		
56) 1,2-dibromoethane	0.000		0	N.D.		
64) 1,1,2,2-tetrachloroethane	16.917		0	N.D.		
74) Benzyl Chloride	18.625		0	N.D.		
83) naphthalene	20.600	128	914	0.010	ppbV	# 82

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

Sub List : 9_PA_SIM - .\Data\AirLab15\2024\01\0131SIM\r1542415_Ev2.D

Data Path : 0:\Forensics\Data\AirLab15\2024\01\0131SIM\

Data File : r1542421_Ev2.D

Acq On : 31 Jan 2024 7:38 PM

Operator : AIRLAB15:JMB

Sample : L2403288-09,3,250,250

Misc : WG1880236,ICAL20577

ALS Vial : 0 Sample Multiplier: 1

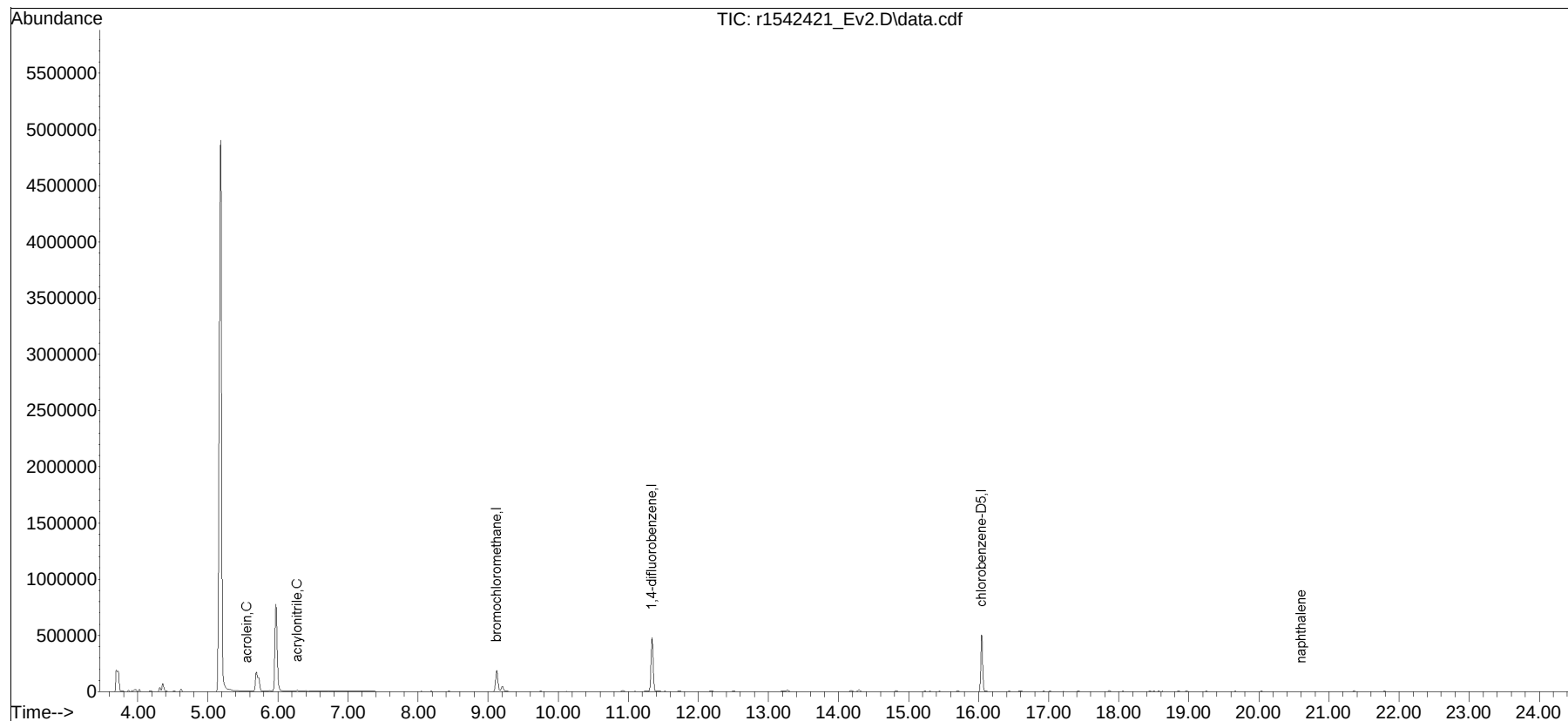
Quant Time: Feb 01 06:44:24 2024

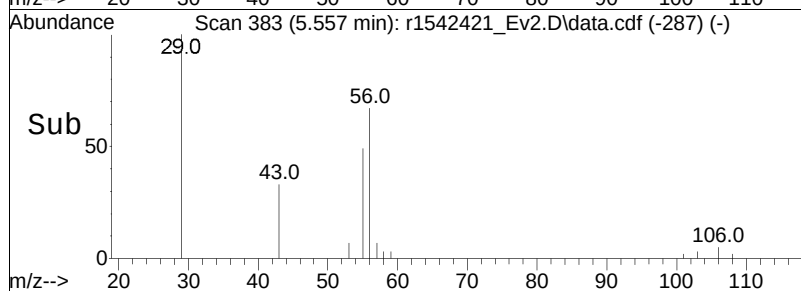
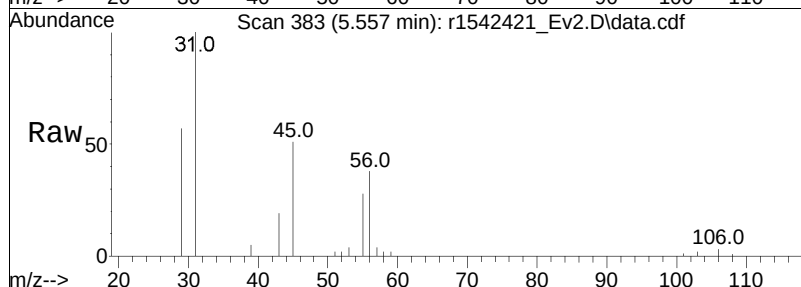
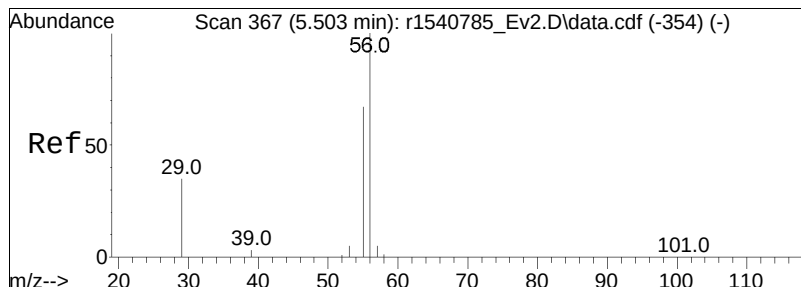
Quant Method : 0:\Forensics\Data\AirLab15\2024\01\0131SIM\TSIM15_231120.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

QLast Update : Tue Nov 21 16:16:05 2023

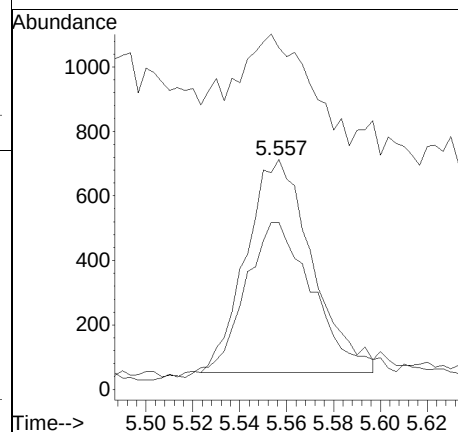
Response via : Initial Calibration

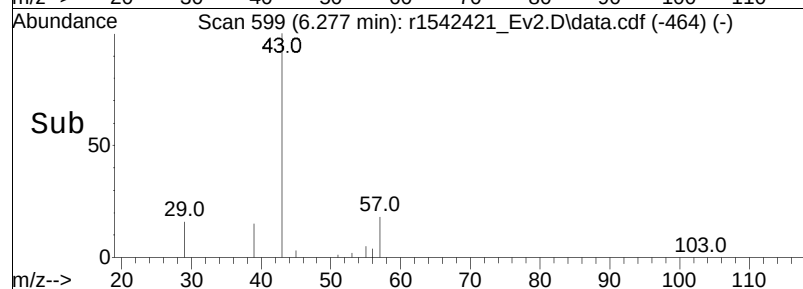
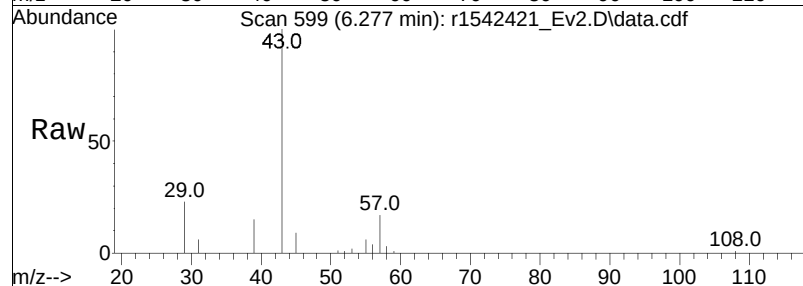
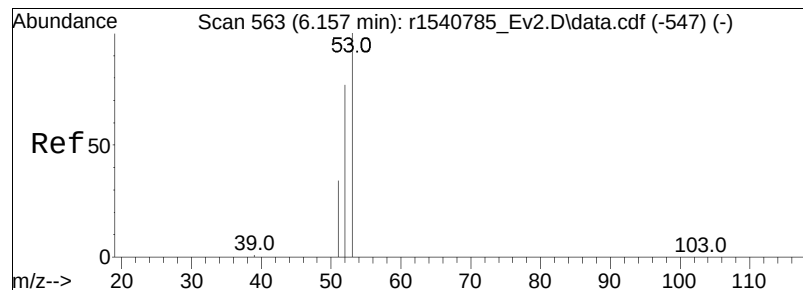




#12
acrolein
Concen: 0.23 ppbV
RT: 5.557 min Scan# 383
Delta R.T. 0.053 min
Lab File: r1542421_Ev2.D
Acq: 31 Jan 2024 7:38 PM

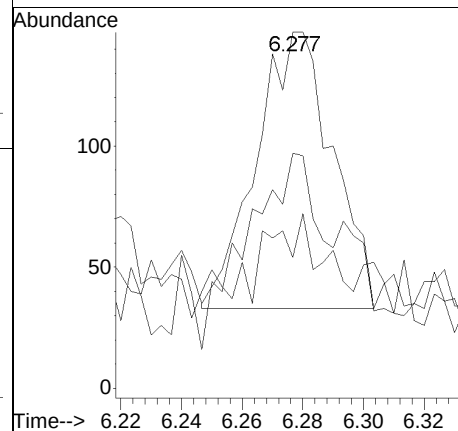
Tgt Ion: 56 Resp: 1300
Ion Ratio Lower Upper
56 100
55 78.4 55.4 83.2
29 45.2 28.8 43.2#

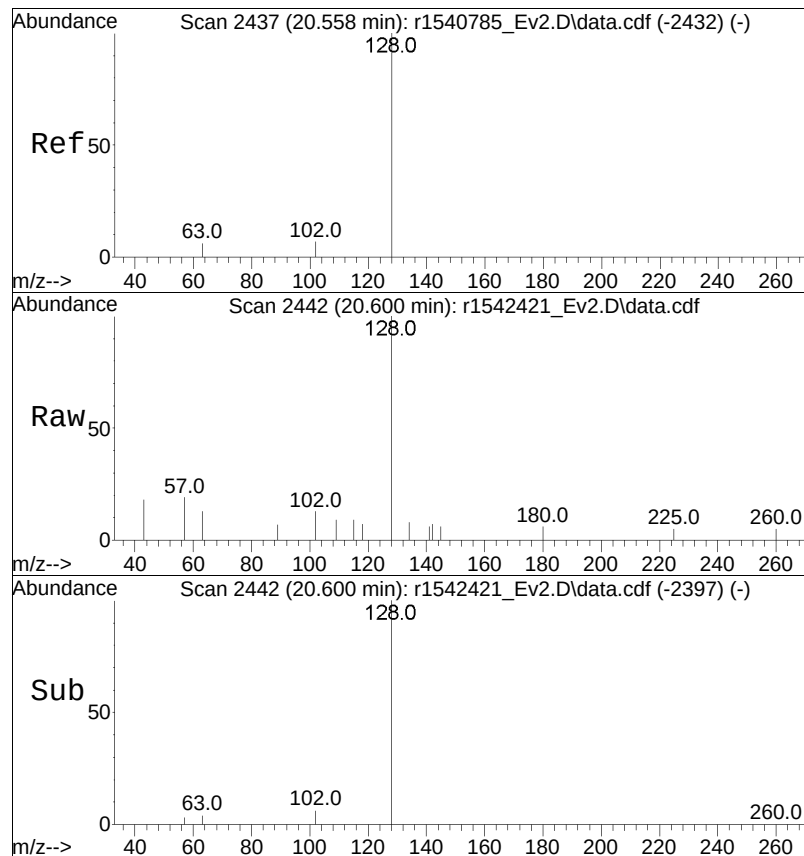




#16
acrylonitrile
Concen: 0.02 ppbV
RT: 6.277 min Scan# 599
Delta R.T. 0.120 min
Lab File: r1542421_Ev2.D
Acq: 31 Jan 2024 7:38 PM

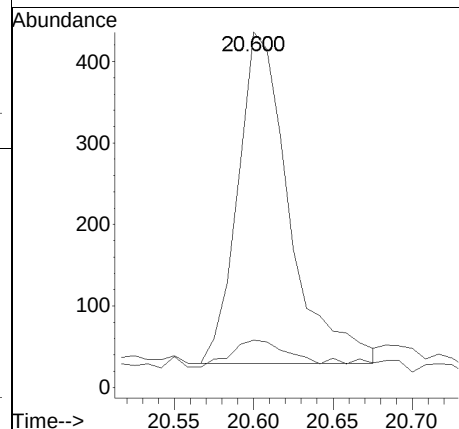
Tgt	Ion	Ratio	Lower	Upper
53	100			
52	36.7	61.8	92.8#	
51	66.0	27.4	41.0#	





#83
 naphthalene
 Concen: 0.01 ppbV
 RT: 20.600 min Scan# 2442
 Delta R.T. 0.042 min
 Lab File: r1542421_Ev2.D
 Acq: 31 Jan 2024 7:38 PM

Tgt Ion	Ratio	Lower	Upper
128	100		
102	13.3	5.7	8.5#



Manual Integration Report

Data Path	: 0:\Forensics\Data\Airlab15Q	Method	: TSIM15_231120.M
Data File	: r1542421_Ev2.D	Operator	: AIRLAB15:JMB
Date Inj'd	: 1/31/2020 0:7: 8	Instrument	:
Sample	: L2403288-09,3,250,250	Quant Date	: 2/1/2024 6:44 am

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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\
 Data File : r1542422_Ev2.D
 Acq On : 31 Jan 2024 8:17 PM
 Operator : AIRLAB15:JMB
 Sample : L2403288-11,3,250,250
 Misc : WG1880236,ICAL20577
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 06:44:50 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 16:16:05 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\r1542415_Ev2.D
 Sub List : 9_PA_SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.125	49	210892	10.000	ppbV	0.06
Standard Area = 224563			Recovery =		93.91%	
33) 1,4-difluorobenzene	11.340	114	552911	10.000	ppbV	0.05
Standard Area = 616226			Recovery =		89.73%	
51) chlorobenzene-D5	16.042	54	107500	10.000	ppbV	0.04
Standard Area = 113391			Recovery =		94.80%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) acrolein	5.557	56	1214	0.228	ppbV #	79
16) acrylonitrile	0.000		0	N.D.	d	
42) bromodichloromethane	12.000		0	N.D.		
50) 1,1,2-trichloroethane	0.000		0	N.D.		
55) dibromochloromethane	14.733	129	245	0.010	ppbV #	81
56) 1,2-dibromoethane	0.000		0	N.D.		
64) 1,1,2,2-tetrachloroethane	16.925		0	N.D.		
74) Benzyl Chloride	18.625		0	N.D.		
83) naphthalene	20.608		0	N.D.		

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

Sub List : 9_PA_SIM - .\Data\AirLab15\2024\01\0131SIM\r1542415_Ev2.D

Data Path : 0:\Forensics\Data\AirLab15\2024\01\0131SIM\

Data File : r1542422_Ev2.D

Acq On : 31 Jan 2024 8:17 PM

Operator : AIRLAB15:JMB

Sample : L2403288-11,3,250,250

Misc : WG1880236,ICAL20577

ALS Vial : 0 Sample Multiplier: 1

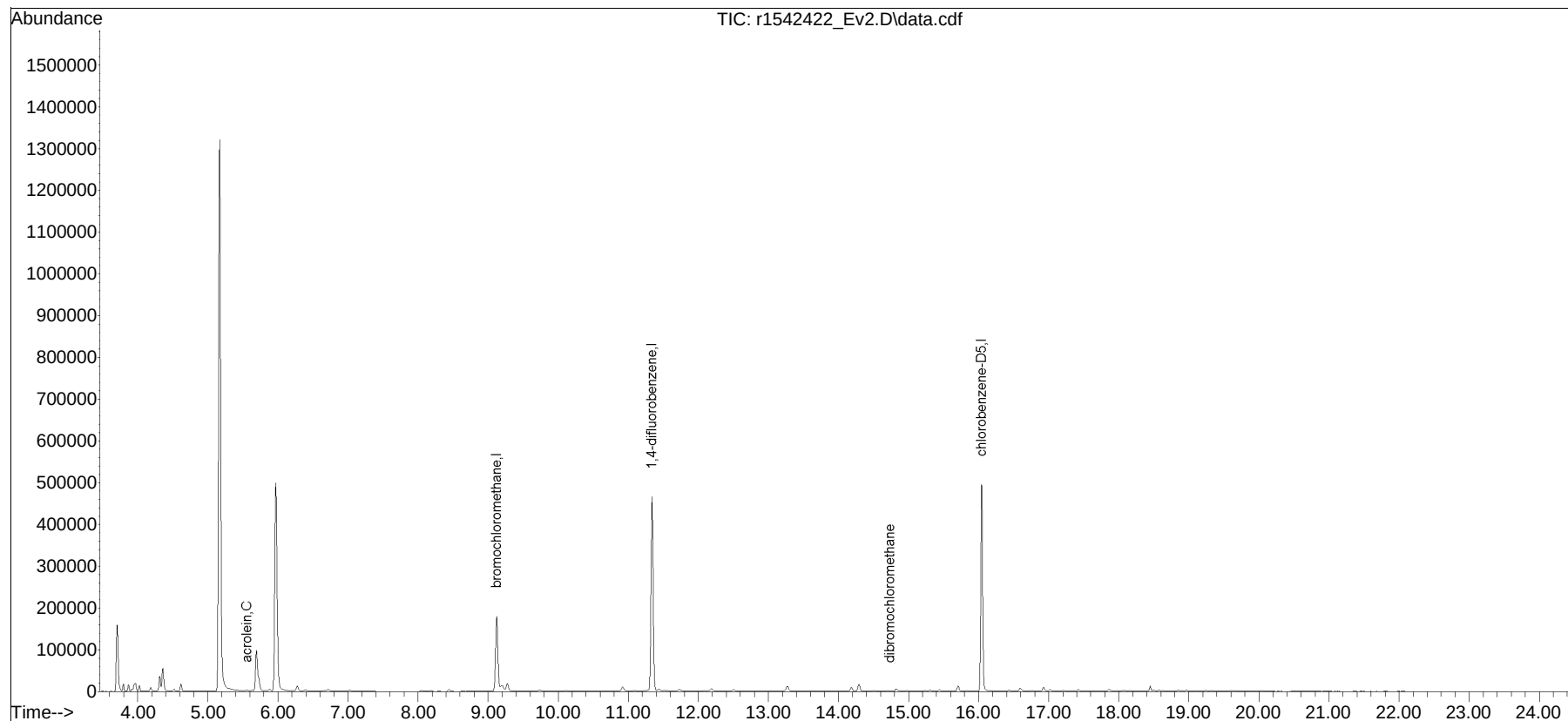
Quant Time: Feb 01 06:44:50 2024

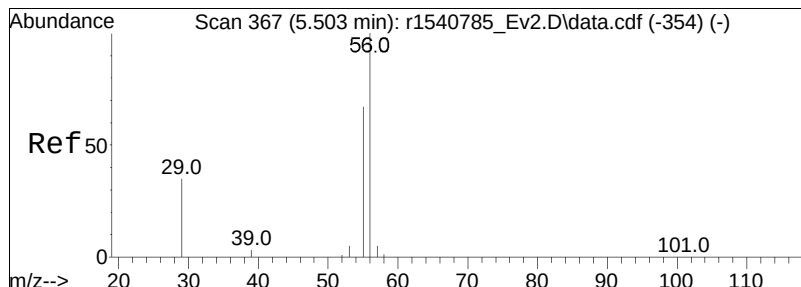
Quant Method : 0:\Forensics\Data\AirLab15\2024\01\0131SIM\TSIM15_231120.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

QLast Update : Tue Nov 21 16:16:05 2023

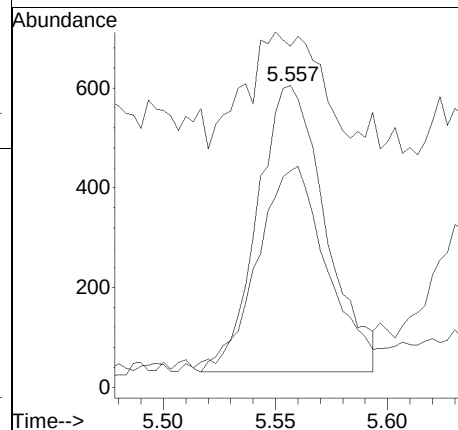
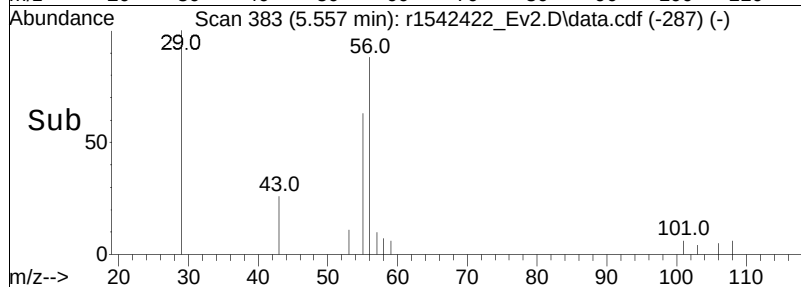
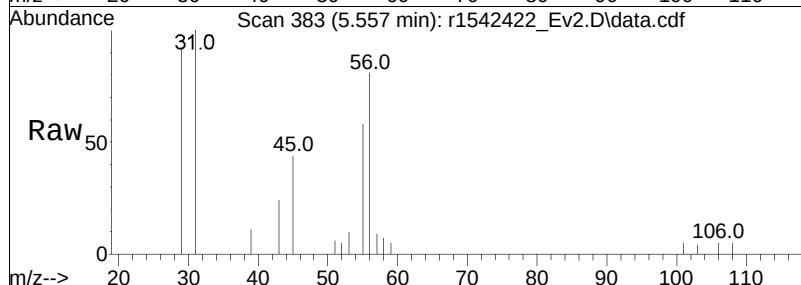
Response via : Initial Calibration

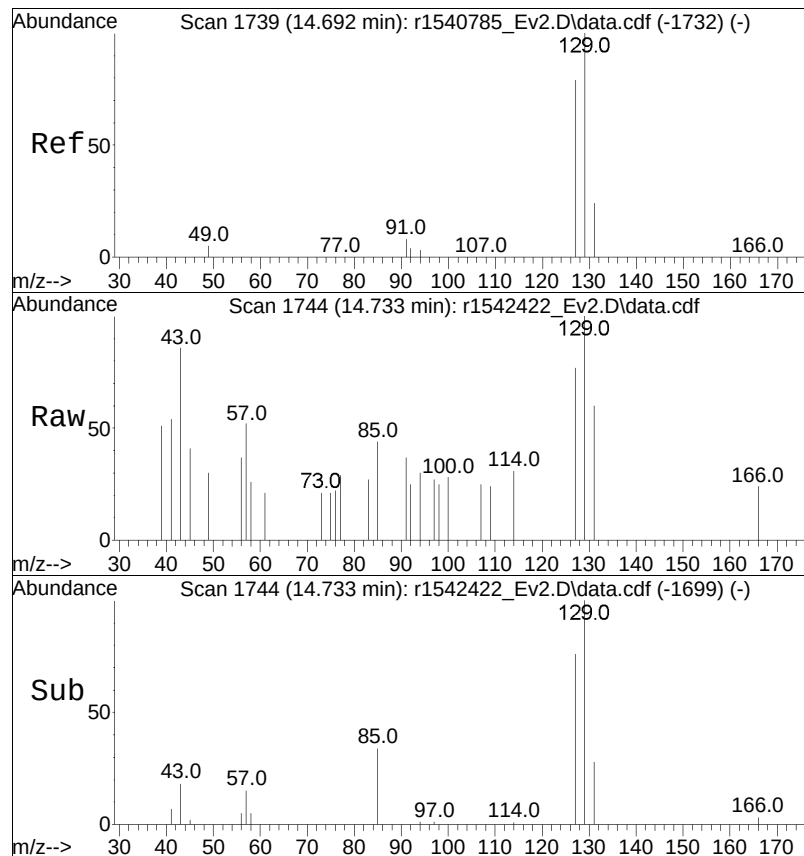




#12
acrolein
Concen: 0.23 ppbV
RT: 5.557 min Scan# 383
Delta R.T. 0.053 min
Lab File: r1542422_Ev2.D
Acq: 31 Jan 2024 8:17 PM

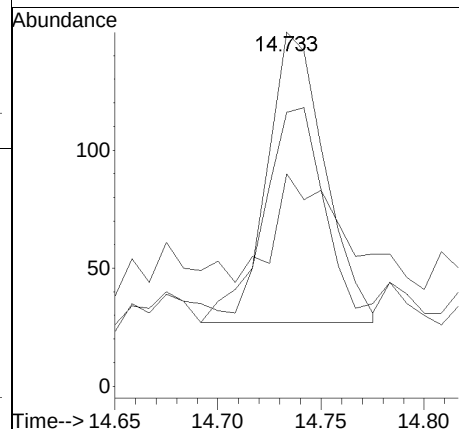
Tgt Ion: 56 Resp: 1214
Ion Ratio Lower Upper
56 100
55 66.2 55.4 83.2
29 4.1 28.8 43.2#





#55
 dibromochloromethane
 Concen: 0.01 ppbV
 RT: 14.733 min Scan# 1744
 Delta R.T. 0.042 min
 Lab File: r1542422_Ev2.D
 Acq: 31 Jan 2024 8:17 PM

Tgt Ion:	129	Resp:	245
Ion Ratio	Lower	Upper	
129	100		
127	77.3	63.4	95.2
131	60.0	18.9	28.3#



Manual Integration Report

Data Path	: 0:\Forensics\Data\Airlab15Q	Method	: TSIM15_231120.M
Data File	: r1542422_Ev2.D	Operator	: AIRLAB15:JMB
Date Inj'd	: 1/31/2020 0:8: 7	Instrument	:
Sample	: L2403288-11,3,250,250	Quant Date	: 2/1/2024 6:44 am

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

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary

Form 6

Air Volatiles

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRLAB15
 Calibration dates : 11/20/23 19:52 11/21/23 01:39

Lab Number : L2403288
 Project Number : BK-001
 Ical Ref : ICAL20577

Calibration Files

0.02=r1540779_Ev2.D 0.05=r1540780_Ev2.D 0.1 =r1540781_Ev2.D 0.2 =r1540782_Ev2.D 0.5 =r1540783_Ev2.D
 1.0 =r1540784_Ev2.D 5.0 =r1540785_Ev2.D 10.0=r1540786_Ev2.D 20.0=r1540787_Ev2.D 50.0=r1540788_Ev2.D

Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
1) I bromochloromethane	-----ISTD-----											
2) propylene				0.616	0.584	0.580	0.495	0.502	0.483	0.515	0.539	9.81
3) dichlorodifluoromethane				1.312	1.311	1.289	1.241	1.161	1.025	0.983	1.189	11.55
4) C chloromethane				0.491	0.497	0.491	0.469	0.437	0.384	0.369	0.448	11.84
5) Freon-114		1.246	1.277	1.342	1.316	1.313	1.248	1.167	1.004	0.891	1.201	12.91
6) C vinyl chloride	0.635	0.664	0.661	0.675	0.655	0.647	0.636	0.638	0.594	0.575	0.638	4.95
7) C 1,3-butadiene	0.414	0.410	0.397	0.493	0.466	0.474	0.443	0.425	0.388	0.356	0.427	9.99
8) C bromomethane	0.588	0.627	0.555	0.570	0.550	0.555	0.538	0.532	0.492	0.461	0.547	8.50
9) C chloroethane			0.305	0.318	0.305	0.307	0.296	0.296	0.287	0.286	0.300	3.58
10) ethanol					0.464	0.461	0.439	0.398	0.385	0.337	0.414	12.02
11) C vinyl bromide				0.493	0.473	0.484	0.450	0.453	0.460	0.469	0.469	3.41
12) C acrolein		0.293	0.282	0.249	0.257	0.255	0.240	0.242	0.235	0.220	0.252	9.06
13) acetone				0.616	0.583	0.588	0.529	0.515	0.494	0.474	0.543	9.87
14) trichlorofluoromethane		0.887	0.947	0.942	0.911	0.912	0.882	0.864	0.808	0.773	0.881	6.62
15) isopropyl alcohol				0.774	0.751	0.752	0.657	0.653	0.650	0.628	0.695	8.81
16) C acrylonitrile				0.382	0.581	0.507	0.558	0.506	0.506	0.602	0.520	13.94
17) C 1,1-dichloroethene	0.927	1.030	0.971	1.010	0.979	0.978	0.958	0.988	0.964	0.992	0.980	2.91
18) tertiary butyl alcohol					1.137	1.142	1.085	1.124	1.208	1.268	1.160	5.70
19) C methylene chloride					0.860	0.849	0.791	0.778	0.730	0.697	0.784	8.16
20) C 3-chloropropene					0.842	0.840	0.817	0.821	0.838	0.874	0.839	2.40
21) C carbon disulfide				1.894	1.866	1.893	1.810	1.810	1.836	1.784	1.842	2.35
22) Freon 113	1.145	1.162	1.156	1.203	1.160	1.154	1.109	1.099	1.069	1.122	1.138	3.40
23) trans-1,2-dichloroethene	0.890	0.878	0.882	0.996	0.965	0.980	0.929	0.933	0.964	1.011	0.943	5.10
24) C 1,1-dichloroethane	1.333	1.175	1.209	1.246	1.227	1.219	1.186	1.180	1.160	1.228	1.216	4.05
25) C MTBE	1.528	1.521	1.545	1.560	1.534	1.546	1.465	1.455	1.461	1.460	1.507	2.79
26) C vinyl acetate					1.182	1.222	1.114	1.182	1.252	1.296	1.208	5.25
27) C 2-butanone				1.369	1.327	1.336	1.263	1.272	1.277	1.286	1.304	3.06
28) cis-1,2-dichloroethene	1.039	0.918	0.903	0.936	0.923	0.926	0.919	0.923	0.914	0.955	0.936	4.14
29) Ethyl Acetate					0.242	0.236	0.234	0.239	0.250	0.267	0.245	5.07
30) C chloroform	1.366	1.302	1.368	1.364	1.324	1.318	1.271	1.254	1.184	1.108	1.286	6.64
31) Tetrahydrofuran				0.800	0.835	0.818	0.786	0.790	0.807	0.834	0.810	2.43
32) C 1,2-dichloroethane	0.646	0.758	0.719	0.877	0.788	0.759	0.723	0.713	0.680	0.670	0.733	9.11
33) I 1,4-difluorobenzene	-----ISTD-----											
34) C hexane				0.479	0.460	0.465	0.435	0.435	0.435	0.393	0.443	6.36
35) s 1,2-dichloroethane-D4				0.362	0.371	0.363	0.369	0.368	0.359	0.342	0.362	2.72
36) C 1,1,1-trichloroethane	0.337	0.335	0.330	0.340	0.333	0.331	0.327	0.331	0.316	0.298	0.328	3.76



Initial Calibration Summary

Form 6

Air Volatiles

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRLAB15
 Calibration dates : 11/20/23 19:52 11/21/23 01:39

Lab Number : L2403288
 Project Number : BK-001
 Ical Ref : ICAL20577

Calibration Files

0.02=r1540779_Ev2.D 0.05=r1540780_Ev2.D 0.1 =r1540781_Ev2.D 0.2 =r1540782_Ev2.D 0.5 =r1540783_Ev2.D
 1.0 =r1540784_Ev2.D 5.0 =r1540785_Ev2.D 10.0=r1540786_Ev2.D 20.0=r1540787_Ev2.D 50.0=r1540788_Ev2.D

Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
37) C benzene			0.881	0.891	0.858	0.854	0.837	0.832	0.786	0.721	0.832	6.64
38) C carbon tetrachloride	0.299	0.288	0.312	0.322	0.317	0.317	0.325	0.332	0.311	0.279	0.310	5.37
39) cyclohexane			0.494	0.500	0.493	0.471	0.472	0.478	0.447	0.479		3.77
40) Dibromomethane		0.286	0.249	0.261	0.250	0.248	0.236	0.237	0.239	0.235	0.249	6.60
41) C 1,2-dichloropropane	0.363	0.292	0.301	0.310	0.292	0.294	0.292	0.294	0.286	0.285	0.301	7.59
42) bromodichloromethane	0.374	0.411	0.395	0.412	0.414	0.428	0.420	0.425	0.421	0.374	0.407	4.85
43) C 1,4-dioxane		0.180	0.188	0.183	0.186	0.182	0.187	0.195	0.189	0.186		2.62
44) C trichloroethene	0.356	0.377	0.301	0.334	0.329	0.333	0.330	0.332	0.324	0.320	0.334	6.13
45) C 2,2,4-trimethylpentane		1.507	1.477	1.555	1.559	1.556	1.463	1.431	1.425	1.310	1.476	5.51
46) heptane			0.510	0.507	0.507	0.479	0.477	0.466	0.427	0.482		6.20
47) C cis-1,3-dichloropropene	0.355	0.306	0.330	0.356	0.362	0.368	0.393	0.399	0.382	0.358	0.361	7.71
48) C 4-methyl-2-pentanone				0.563	0.555	0.547	0.545	0.536	0.494	0.540		4.52
49) trans-1,3-dichloropropene	0.240	0.233	0.246	0.266	0.283	0.287	0.313	0.323	0.310	0.289	0.279	11.42
50) C 1,1,2-trichloroethane	0.319	0.281	0.293	0.306	0.296	0.297	0.292	0.295	0.286	0.292	0.296	3.50
51) I chlorobenzene-D5	-----ISTD-----											
52) C toluene		5.756	5.957	5.864	5.798	5.770	5.720	5.674	5.970	5.814		1.85
53) s toluene-D8		7.100	7.224	7.047	7.090	7.120	7.304	8.420	7.329			6.67
54) 2-hexanone		2.834	2.898	2.987	3.046	3.034	3.049	3.148	2.999			3.49
55) dibromochloromethane	1.995	2.061	1.955	2.064	2.067	2.122	2.213	2.283	2.434	2.572	2.177	9.17
56) C 1,2-dibromoethane	2.390	2.426	2.427	2.530	2.578	2.604	2.677	2.655	2.585	2.730	2.560	4.50
57) C tetrachloroethene	2.332	2.268	2.182	2.335	2.253	2.224	2.226	2.173	2.172	2.276	2.244	2.69
58) 1,1,1,2-tetrachloroethane	2.105	1.722	1.705	1.797	1.785	1.797	1.820	1.837	1.907	1.982	1.846	6.61
59) C chlorobenzene	4.691	4.655	4.685	4.783	4.667	4.620	4.648	4.557	4.424	4.458	4.619	2.38
60) C ethylbenzene	7.155	7.141	7.147	7.242	7.322	7.293	7.480	7.417	7.344	7.716	7.326	2.44
61) C m+p-xylene	5.646	5.500	5.624	5.816	5.893	5.872	6.050	5.979	5.846	5.887	5.811	2.93
62) C bromoform	1.456	1.535	1.515	1.529	1.550	1.606	1.808	1.919	2.107	2.274	1.730	16.43
63) C styrene	3.984	4.005	3.872	4.513	4.545	4.634	4.803	4.787	4.718	4.978	4.484	8.72
64) C 1,1,2,2-tetrachloroethane	4.496	4.427	4.440	4.515	4.530	4.520	4.735	4.709	4.487	4.161	4.502	3.50
65) C o-xylene	6.110	5.643	5.655	6.070	5.938	5.988	6.112	6.058	5.879	5.635	5.909	3.33
66) 1,2,3-Trichloropropane	3.192	3.099	3.340	3.327	3.359	3.330	3.253	3.176	3.146	3.118	3.234	3.08
67) s bromofluorobenzene		4.549	4.739	4.703	4.557	4.687	4.969	5.671	4.839			8.11
68) C isopropylbenzene		7.594	7.589	7.550	7.413	7.254	7.327	7.410	7.448			1.79
69) Bromobenzene	4.132	4.280	4.273	4.448	4.435	4.453	4.315	4.243	4.178	4.096	4.285	3.02
70) 4-ethyl toluene	6.918	7.056	7.308	7.658	7.897	7.921	7.971	7.822	7.914	8.010	7.648	5.29
71) 1,3,5-trimethylbenzene	5.725	5.861	5.918	6.685	7.614	6.834	7.964	6.956	6.639	6.735	6.693	10.90
72) tert-butylbenzene		7.237	7.277	7.330	7.438	7.333	7.082	6.480	7.168			4.50



Initial Calibration Summary

Form 6

Air Volatiles

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRLAB15
 Calibration dates : 11/20/23 19:52 11/21/23 01:39

Lab Number : L2403288
 Project Number : BK-001
 Ical Ref : ICAL20577

Calibration Files

0.02=r1540779_Ev2.D 0.05=r1540780_Ev2.D 0.1 =r1540781_Ev2.D 0.2 =r1540782_Ev2.D 0.5 =r1540783_Ev2.D
 1.0 =r1540784_Ev2.D 5.0 =r1540785_Ev2.D 10.0=r1540786_Ev2.D 20.0=r1540787_Ev2.D 50.0=r1540788_Ev2.D

	Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
73)	1,2,4-trimethylbenzene	6.116	5.873	6.261	6.690	6.811	6.863	7.223	7.066	6.665	6.222	6.579	6.70
74) C	Benzyl Chloride			2.391	2.628	2.775	3.147	3.859	4.289	4.714	5.094	3.612	28.29
75)	1,3-dichlorobenzene	4.364	4.170	4.228	4.444	4.461	4.462	4.915	4.892	4.732	4.906	4.557	6.20
76) C	1,4-dichlorobenzene	4.137	4.065	4.053	4.222	4.448	4.473	4.871	4.930	4.760	4.815	4.477	7.75
77)	sec-butylbenzene				9.363	9.686	9.600	9.776	9.607	9.572	9.491	9.585	1.39
78)	p-isopropyltoluene				8.209	8.760	8.721	8.526	7.532	8.101	7.146	8.142	7.50
79)	1,2-dichlorobenzene	4.068	3.938	3.816	4.023	4.219	4.252	4.599	4.695	4.512	4.630	4.275	7.39
80)	n-butylbenzene				6.878	7.319	7.482	7.958	8.084	8.107	8.012	7.692	6.16
81)	1,2-dibromo-3-chloropr...	1.145	1.173	1.178	1.218	1.370	1.428	1.621	1.641	1.616	1.689	1.408	15.66
82) C	1,2,4-trichlorobenzene		2.049	2.098	2.099	2.643	2.883	3.464	3.938	3.700	4.018	2.988	27.22
83)	naphthalene		0.633	0.614	0.591	0.787	0.845	0.910	1.028	0.988	1.037	0.826	21.75
84)	1,2,3-trichlorobenzene		2.121	1.916	1.787	2.395	2.642	2.870	3.311	3.168	3.513	2.636	23.71
85) C	hexachlorobutadiene		2.250	2.118	2.074	2.531	2.685	2.931	3.200	2.896	2.964	2.627	15.49



Response Factor Report

Method Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Method File : TSIM15_231120.M
Title : T0-14A/T0-15 SIM/Full Scan Analysis
Last Update : Tue Nov 21 16:16:02 2023
Response Via : Initial Calibration

Calibration Files

0.02=r1540779_Ev2.D 0.05=r1540780_Ev2.D 0.1 =r1540781_Ev2.D 0.2 =r1540782_Ev2.D 0.5 =r1540783_Ev2.D
1.0 =r1540784_Ev2.D 5.0 =r1540785_Ev2.D 10.0=r1540786_Ev2.D 20.0=r1540787_Ev2.D 50.0=r1540788_Ev2.D

Compound		0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD

1) I	bromochloromethane	-----ISTD-----											
2)	propylene				0.616	0.584	0.580	0.495	0.502	0.483	0.515	0.539	9.81
3)	dichlorodifluo...				1.312	1.311	1.289	1.241	1.161	1.025	0.983	1.189	11.55
4) C	chloromethane				0.491	0.497	0.491	0.469	0.437	0.384	0.369	0.448	11.84
5)	Freon-114		1.246	1.277	1.342	1.316	1.313	1.248	1.167	1.004	0.891	1.201	12.91
6) C	vinyl chloride	0.635	0.664	0.661	0.675	0.655	0.647	0.636	0.638	0.594	0.575	0.638	4.95
7) C	1,3-butadiene	0.414	0.410	0.397	0.493	0.466	0.474	0.443	0.425	0.388	0.356	0.427	9.99
8) C	bromomethane	0.588	0.627	0.555	0.570	0.550	0.555	0.538	0.532	0.492	0.461	0.547	8.50
9) C	chloroethane			0.305	0.318	0.305	0.307	0.296	0.296	0.287	0.286	0.300	3.58
10)	ethanol					0.464	0.461	0.439	0.398	0.385	0.337	0.414	12.02
11) C	vinyl bromide				0.493	0.473	0.484	0.450	0.453	0.460	0.469	0.469	3.41
12) C	acrolein		0.293	0.282	0.249	0.257	0.255	0.240	0.242	0.235	0.220	0.252	9.06
13)	acetone				0.616	0.583	0.588	0.529	0.515	0.494	0.474	0.543	9.87
14)	trichlorofluor...		0.887	0.947	0.942	0.911	0.912	0.882	0.864	0.808	0.773	0.881	6.62
15)	isopropyl alcohol				0.774	0.751	0.752	0.657	0.653	0.650	0.628	0.695	8.81
16) C	acrylonitrile				0.382	0.581	0.507	0.558	0.506	0.506	0.602	0.520	13.94

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Method File : TSIM15_231120.M
Title : T0-14A/T0-15 SIM/Full Scan Analysis
Last Update : Tue Nov 21 16:16:02 2023
Response Via : Initial Calibration

Calibration Files

0.02=r1540779_Ev2.D 0.05=r1540780_Ev2.D 0.1 =r1540781_Ev2.D 0.2 =r1540782_Ev2.D 0.5 =r1540783_Ev2.D
1.0 =r1540784_Ev2.D 5.0 =r1540785_Ev2.D 10.0=r1540786_Ev2.D 20.0=r1540787_Ev2.D 50.0=r1540788_Ev2.D

	Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
17) C	1,1-dichloroet...	0.927	1.030	0.971	1.010	0.979	0.978	0.958	0.988	0.964	0.992	0.980	2.91
18)	tertiary butyl...					1.137	1.142	1.085	1.124	1.208	1.268	1.160	5.70
19) C	methylene chlo...					0.860	0.849	0.791	0.778	0.730	0.697	0.784	8.16
20) C	3-chloropropene					0.842	0.840	0.817	0.821	0.838	0.874	0.839	2.40
21) C	carbon disulfide				1.894	1.866	1.893	1.810	1.810	1.836	1.784	1.842	2.35
22)	Freon 113	1.145	1.162	1.156	1.203	1.160	1.154	1.109	1.099	1.069	1.122	1.138	3.40
23)	trans-1,2-dich...	0.890	0.878	0.882	0.996	0.965	0.980	0.929	0.933	0.964	1.011	0.943	5.10
24) C	1,1-dichloroet...	1.333	1.175	1.209	1.246	1.227	1.219	1.186	1.180	1.160	1.228	1.216	4.05
25) C	MTBE	1.528	1.521	1.545	1.560	1.534	1.546	1.465	1.455	1.461	1.460	1.507	2.79
26) C	vinyl acetate					1.182	1.222	1.114	1.182	1.252	1.296	1.208	5.25
27) C	2-butanone				1.369	1.327	1.336	1.263	1.272	1.277	1.286	1.304	3.06
28)	cis-1,2-dichlo...	1.039	0.918	0.903	0.936	0.923	0.926	0.919	0.923	0.914	0.955	0.936	4.14
29)	Ethyl Acetate					0.242	0.236	0.234	0.239	0.250	0.267	0.245	5.07
30) C	chloroform	1.366	1.302	1.368	1.364	1.324	1.318	1.271	1.254	1.184	1.108	1.286	6.64
31)	Tetrahydrofuran				0.800	0.835	0.818	0.786	0.790	0.807	0.834	0.810	2.43
32) C	1,2-dichloroet...	0.646	0.758	0.719	0.877	0.788	0.759	0.723	0.713	0.680	0.670	0.733	9.11

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Method File : TSIM15_231120.M
Title : T0-14A/T0-15 SIM/Full Scan Analysis
Last Update : Tue Nov 21 16:16:02 2023
Response Via : Initial Calibration

Calibration Files

0.02=r1540779_Ev2.D 0.05=r1540780_Ev2.D 0.1 =r1540781_Ev2.D 0.2 =r1540782_Ev2.D 0.5 =r1540783_Ev2.D
1.0 =r1540784_Ev2.D 5.0 =r1540785_Ev2.D 10.0=r1540786_Ev2.D 20.0=r1540787_Ev2.D 50.0=r1540788_Ev2.D

Compound		0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD

33) I	1,4-difluorobenzene	-----ISTD-----											
34) C	hexane				0.479	0.460	0.465	0.435	0.435	0.435	0.393	0.443	6.36
35) s	1,2-dichloroet...				0.362	0.371	0.363	0.369	0.368	0.359	0.342	0.362	2.72
36) C	1,1,1-trichlor...	0.337	0.335	0.330	0.340	0.333	0.331	0.327	0.331	0.316	0.298	0.328	3.76
37) C	benzene			0.881	0.891	0.858	0.854	0.837	0.832	0.786	0.721	0.832	6.64
38) C	carbon tetrach...	0.299	0.288	0.312	0.322	0.317	0.317	0.325	0.332	0.311	0.279	0.310	5.37
39)	cyclohexane				0.494	0.500	0.493	0.471	0.472	0.478	0.447	0.479	3.77
40)	Dibromomethane		0.286	0.249	0.261	0.250	0.248	0.236	0.237	0.239	0.235	0.249	6.60
41) C	1,2-dichloropr...	0.363	0.292	0.301	0.310	0.292	0.294	0.292	0.294	0.286	0.285	0.301	7.59
42)	bromodichlorom...	0.374	0.411	0.395	0.412	0.414	0.428	0.420	0.425	0.421	0.374	0.407	4.85
43) C	1,4-dioxane			0.180	0.188	0.183	0.186	0.182	0.187	0.195	0.189	0.186	2.62
44) C	trichloroethene	0.356	0.377	0.301	0.334	0.329	0.333	0.330	0.332	0.324	0.320	0.334	6.13
45) C	2,2,4-trimethy...		1.507	1.477	1.555	1.559	1.556	1.463	1.431	1.425	1.310	1.476	5.51
46)	heptane				0.510	0.507	0.507	0.479	0.477	0.466	0.427	0.482	6.20
47) C	cis-1,3-dichlo...	0.355	0.306	0.330	0.356	0.362	0.368	0.393	0.399	0.382	0.358	0.361	7.71
48) C	4-methyl-2-pen...					0.563	0.555	0.547	0.545	0.536	0.494	0.540	4.52

Response Factor Report

Method Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Method File : TSIM15_231120.M
Title : T0-14A/T0-15 SIM/Full Scan Analysis
Last Update : Tue Nov 21 16:16:02 2023
Response Via : Initial Calibration

Calibration Files

0.02=r1540779_Ev2.D 0.05=r1540780_Ev2.D 0.1 =r1540781_Ev2.D 0.2 =r1540782_Ev2.D 0.5 =r1540783_Ev2.D
1.0 =r1540784_Ev2.D 5.0 =r1540785_Ev2.D 10.0=r1540786_Ev2.D 20.0=r1540787_Ev2.D 50.0=r1540788_Ev2.D

	Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
49)	trans-1,3-dich...	0.240	0.233	0.246	0.266	0.283	0.287	0.313	0.323	0.310	0.289	0.279	11.42
50) C	1,1,2-trichlor...	0.319	0.281	0.293	0.306	0.296	0.297	0.292	0.295	0.286	0.292	0.296	3.50
51) I	chlorobenzene-D5	-----ISTD-----											
52) C	toluene			5.756	5.957	5.864	5.798	5.770	5.720	5.674	5.970	5.814	1.85
53) s	toluene-D8				7.100	7.224	7.047	7.090	7.120	7.304	8.420	7.329	6.67
54)	2-hexanone				2.834	2.898	2.987	3.046	3.034	3.049	3.148	2.999	3.49
55)	dibromochlorom...	1.995	2.061	1.955	2.064	2.067	2.122	2.213	2.283	2.434	2.572	2.177	9.17
56) C	1,2-dibromoethane	2.390	2.426	2.427	2.530	2.578	2.604	2.677	2.655	2.585	2.730	2.560	4.50
57) C	tetrachloroethene	2.332	2.268	2.182	2.335	2.253	2.224	2.226	2.173	2.172	2.276	2.244	2.69
58)	1,1,1,2-tetrac...	2.105	1.722	1.705	1.797	1.785	1.797	1.820	1.837	1.907	1.982	1.846	6.61
59) C	chlorobenzene	4.691	4.655	4.685	4.783	4.667	4.620	4.648	4.557	4.424	4.458	4.619	2.38
60) C	ethylbenzene	7.155	7.141	7.147	7.242	7.322	7.293	7.480	7.417	7.344	7.716	7.326	2.44
61) C	m+p-xylene	5.646	5.500	5.624	5.816	5.893	5.872	6.050	5.979	5.846	5.887	5.811	2.93
62) C	bromoform	1.456	1.535	1.515	1.529	1.550	1.606	1.808	1.919	2.107	2.274	1.730	16.43
63) C	styrene	3.984	4.005	3.872	4.513	4.545	4.634	4.803	4.787	4.718	4.978	4.484	8.72
64) C	1,1,2,2-tetrac...	4.496	4.427	4.440	4.515	4.530	4.520	4.735	4.709	4.487	4.161	4.502	3.50

Response Factor Report

Method Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Method File : TSIM15_231120.M
Title : T0-14A/T0-15 SIM/Full Scan Analysis
Last Update : Tue Nov 21 16:16:02 2023
Response Via : Initial Calibration

Calibration Files

0.02=r1540779_Ev2.D 0.05=r1540780_Ev2.D 0.1 =r1540781_Ev2.D 0.2 =r1540782_Ev2.D 0.5 =r1540783_Ev2.D
1.0 =r1540784_Ev2.D 5.0 =r1540785_Ev2.D 10.0=r1540786_Ev2.D 20.0=r1540787_Ev2.D 50.0=r1540788_Ev2.D

	Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
65) C	o-xylene	6.110	5.643	5.655	6.070	5.938	5.988	6.112	6.058	5.879	5.635	5.909	3.33
66)	1,2,3-Trichlor...	3.192	3.099	3.340	3.327	3.359	3.330	3.253	3.176	3.146	3.118	3.234	3.08
67) s	bromofluoroben...				4.549	4.739	4.703	4.557	4.687	4.969	5.671	4.839	8.11
68) C	isopropylbenzene				7.594	7.589	7.550	7.413	7.254	7.327	7.410	7.448	1.79
69)	Bromobenzene	4.132	4.280	4.273	4.448	4.435	4.453	4.315	4.243	4.178	4.096	4.285	3.02
70)	4-ethyl toluene	6.918	7.056	7.308	7.658	7.897	7.921	7.971	7.822	7.914	8.010	7.648	5.29
71)	1,3,5-trimethy...	5.725	5.861	5.918	6.685	7.614	6.834	7.964	6.956	6.639	6.735	6.693	10.90
72)	tert-butylbenzene				7.237	7.277	7.330	7.438	7.333	7.082	6.480	7.168	4.50
73)	1,2,4-trimethy...	6.116	5.873	6.261	6.690	6.811	6.863	7.223	7.066	6.665	6.222	6.579	6.70
74) C	Benzyl Chloride			2.391	2.628	2.775	3.147	3.859	4.289	4.714	5.094	3.612	28.29
75)	1,3-dichlorobe...	4.364	4.170	4.228	4.444	4.461	4.462	4.915	4.892	4.732	4.906	4.557	6.20
76) C	1,4-dichlorobe...	4.137	4.065	4.053	4.222	4.448	4.473	4.871	4.930	4.760	4.815	4.477	7.75
77)	sec-butylbenzene				9.363	9.686	9.600	9.776	9.607	9.572	9.491	9.585	1.39
78)	p-isopropyltol...				8.209	8.760	8.721	8.526	7.532	8.101	7.146	8.142	7.50
79)	1,2-dichlorobe...	4.068	3.938	3.816	4.023	4.219	4.252	4.599	4.695	4.512	4.630	4.275	7.39
80)	n-butylbenzene				6.878	7.319	7.482	7.958	8.084	8.107	8.012	7.692	6.16

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Method File : TSIM15_231120.M
Title : T0-14A/T0-15 SIM/Full Scan Analysis
Last Update : Tue Nov 21 16:16:02 2023
Response Via : Initial Calibration

Calibration Files

0.02=r1540779_Ev2.D 0.05=r1540780_Ev2.D 0.1 =r1540781_Ev2.D 0.2 =r1540782_Ev2.D 0.5 =r1540783_Ev2.D
1.0 =r1540784_Ev2.D 5.0 =r1540785_Ev2.D 10.0=r1540786_Ev2.D 20.0=r1540787_Ev2.D 50.0=r1540788_Ev2.D

	Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
81)	1,2-dibromo-3-...	1.145	1.173	1.178	1.218	1.370	1.428	1.621	1.641	1.616	1.689	1.408	15.66
82) C	1,2,4-trichlor...		2.049	2.098	2.099	2.643	2.883	3.464	3.938	3.700	4.018	2.988	27.22
83)	naphthalene		0.633	0.614	0.591	0.787	0.845	0.910	1.028	0.988	1.037	0.826	21.75
84)	1,2,3-trichlor...		2.121	1.916	1.787	2.395	2.642	2.870	3.311	3.168	3.513	2.636	23.71
85) C	hexachlorobuta...		2.250	2.118	2.074	2.531	2.685	2.931	3.200	2.896	2.964	2.627	15.49

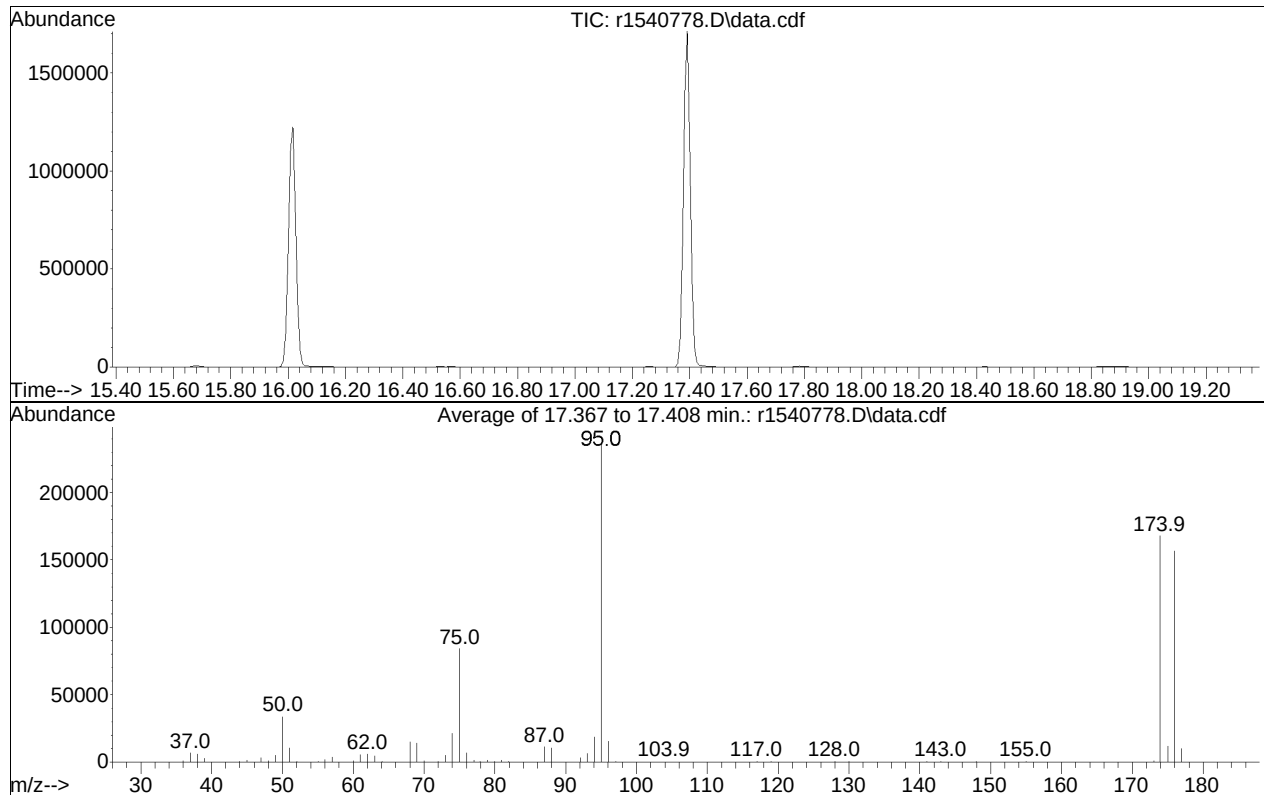
(#) = Out of Range

BFB

Data Path : 0:\Forensics\Data\AirLab15\2023\11\1120SIM_I\
 Data File : r1540778.D
 Acq On : 20 Nov 2023 7:17 PM
 Operator : AIRLAB15:RAY
 Sample : WG1855600-1,3,250,250
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : 0:\Forensics\Data\AirLab15\2023\11\1120SIM_I\TSIM15_231120.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Tue Nov 21 16:16:02 2023



Spectrum Information: Average of 17.367 to 17.408 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	14.2	33577	PASS
75	95	30	66	35.5	84043	PASS
95	95	100	100	100.0	237026	PASS
96	95	5	9	6.5	15289	PASS
173	174	0.00	2	0.6	938	PASS
174	95	50	120	71.0	168281	PASS
175	174	4	9	7.1	11930	PASS
176	174	93	101	93.0	156550	PASS
177	176	5	9	6.5	10102	PASS

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
 Data File : r1540779_Ev2.D
 Acq On : 20 Nov 2023 7:52 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD0.02
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:12:39 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 10:12:19 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.067	49	192097	10.000	ppbV	0.00
Standard Area = 207652			Recovery =		92.51%	
33) 1,4-difluorobenzene	11.287	114	588459	10.000	ppbV	0.00
Standard Area = 601845			Recovery =		97.78%	
51) chlorobenzene-D5	16.008	54	94757	10.000	ppbV	0.00
Standard Area = 99919			Recovery =		94.83%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	0.000	65	0	0.000	ppbV	
Spiked Amount 10.000	Range 70 - 130		Recovery =		0.00%#	
53) toluene-D8	14.142	98	13483	0.178	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		1.78%#	
67) bromofluorobenzene	17.383	95	5386	0.109	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		1.09%#	
Target Compounds						
					Qvalue	
2) propylene	3.922	41	454M6	0.036	ppbV	
3) dichlorodifluoromethane	3.994	85	461	0.024	ppbV	92
4) chloromethane	4.156	50	207	0.017	ppbV	89
5) Freon-114	4.264	85	485	0.020	ppbV #	84
6) vinyl chloride	4.378	62	244	0.020	ppbV #	33
7) 1,3-butadiene	4.528	54	159	0.017	ppbV #	42
8) bromomethane	4.810	94	226	0.024	ppbV	90
9) chloroethane	4.996	64	161	0.027	ppbV #	78
10) ethanol	5.152	31	841	0.087	ppbV	95
11) vinyl bromide	5.383	106	193M4	0.021	ppbV	
12) acrolein	5.517	56	113M2	0.023	ppbV	
13) acetone	5.673	43	1527	0.098	ppbV #	95
14) trichlorofluoromethane	5.837	101	382M4	0.025	ppbV	
15) isopropyl alcohol	5.963	45	1121	0.051	ppbV #	85
16) acrylonitrile	6.180	53	211M4	0.021	ppbV	
17) 1,1-dichloroethene	6.528	61	356	0.019	ppbV #	89
18) tertiary butyl alcohol	6.642	59	607	0.027	ppbV #	55
19) methylene chloride	6.672	49	755	0.048	ppbV	88
20) 3-chloropropene	6.804	41	327	0.015	ppbV #	72
21) carbon disulfide	6.984	76	703	0.022	ppbV #	1
22) Freon 113	6.972	101	440	0.020	ppbV	95
23) trans-1,2-dichloroethene	7.717	61	342	0.019	ppbV #	91
24) 1,1-dichloroethane	7.942	63	512	0.021	ppbV #	86

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
 Data File : r1540779_Ev2.D
 Acq On : 20 Nov 2023 7:52 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD0.02
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:12:39 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 10:12:19 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) MTBE	8.050	73	587	0.019	ppbV	#	81
26) vinyl acetate	8.142	43	552	0.018	ppbV	#	69
27) 2-butanone	8.425	43	544	0.016	ppbV	#	82
28) cis-1,2-dichloroethene	8.883	61	399	0.023	ppbV	#	88
29) Ethyl Acetate	9.192	61	94M4	0.020	ppbV		
30) chloroform	9.225	83	525	0.025	ppbV	#	81
31) Tetrahydrofuran	9.708	42	291	0.014	ppbV		93
32) 1,2-dichloroethane	10.058	62	248	0.018	ppbV	#	53
34) hexane	9.133	57	604	0.022	ppbV	#	30
36) 1,1,1-trichloroethane	10.350	97	397	0.019	ppbV	#	84
37) benzene	10.867	78	1151	0.022	ppbV		97
38) carbon tetrachloride	11.047	117	352	0.021	ppbV	#	93
39) cyclohexane	11.180	56	594	0.020	ppbV		86
40) Dibromomethane	11.780	93	450	0.028	ppbV	#	85
41) 1,2-dichloropropane	11.813	63	427	0.019	ppbV	#	75
42) bromodichloromethane	12.047	83	440	0.020	ppbV	#	88
43) 1,4-dioxane	12.133	88	218	0.019	ppbV		91
44) trichloroethene	12.093	130	419M4	0.020	ppbV		
45) 2,2,4-trimethylpentane	12.140	57	1734	0.019	ppbV	#	90
46) heptane	12.460	43	573	0.014	ppbV	#	87
47) cis-1,3-dichloropropene	13.117	75	418	0.018	ppbV	#	65
48) 4-methyl-2-pentanone	13.192	43	599	0.013	ppbV	#	89
49) trans-1,3-dichloropropene	13.742	75	282	0.015	ppbV	#	49
50) 1,1,2-trichloroethane	13.933	97	375	0.019	ppbV		95
52) toluene	14.250	91	1129	0.019	ppbV		97
54) 2-hexanone	14.567		0	N.D.			
55) dibromochloromethane	14.692	129	378	0.021	ppbV	#	90
56) 1,2-dibromoethane	14.950	107	453	0.018	ppbV		91
57) tetrachloroethene	15.400	166	442	0.021	ppbV		96
58) 1,1,1,2-tetrachloroethane	16.033	131	399	0.022	ppbV	#	94
59) chlorobenzene	16.050	112	889	0.020	ppbV		92
60) ethylbenzene	16.400	91	1356	0.018	ppbV		96
61) m+p-xylene	16.558	91	2140	0.035	ppbV		98
62) bromoform	16.633	173	276	0.020	ppbV		91
63) styrene	16.892	104	755	0.017	ppbV		92
64) 1,1,2,2-tetrachloroethane	16.983	83	852	0.020	ppbV		91
65) o-xylene	16.983	91	1158	0.019	ppbV		96
66) 1,2,3-Trichloropropane	17.100	75	605	0.019	ppbV	#	90
68) isopropylbenzene	17.500	105	1347	0.018	ppbV		98
69) Bromobenzene	17.575	77	783	0.018	ppbV		90

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
 Data File : r1540779_Ev2.D
 Acq On : 20 Nov 2023 7:52 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD0.02
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:12:39 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 10:12:19 2023
 Response via : Initial Calibration

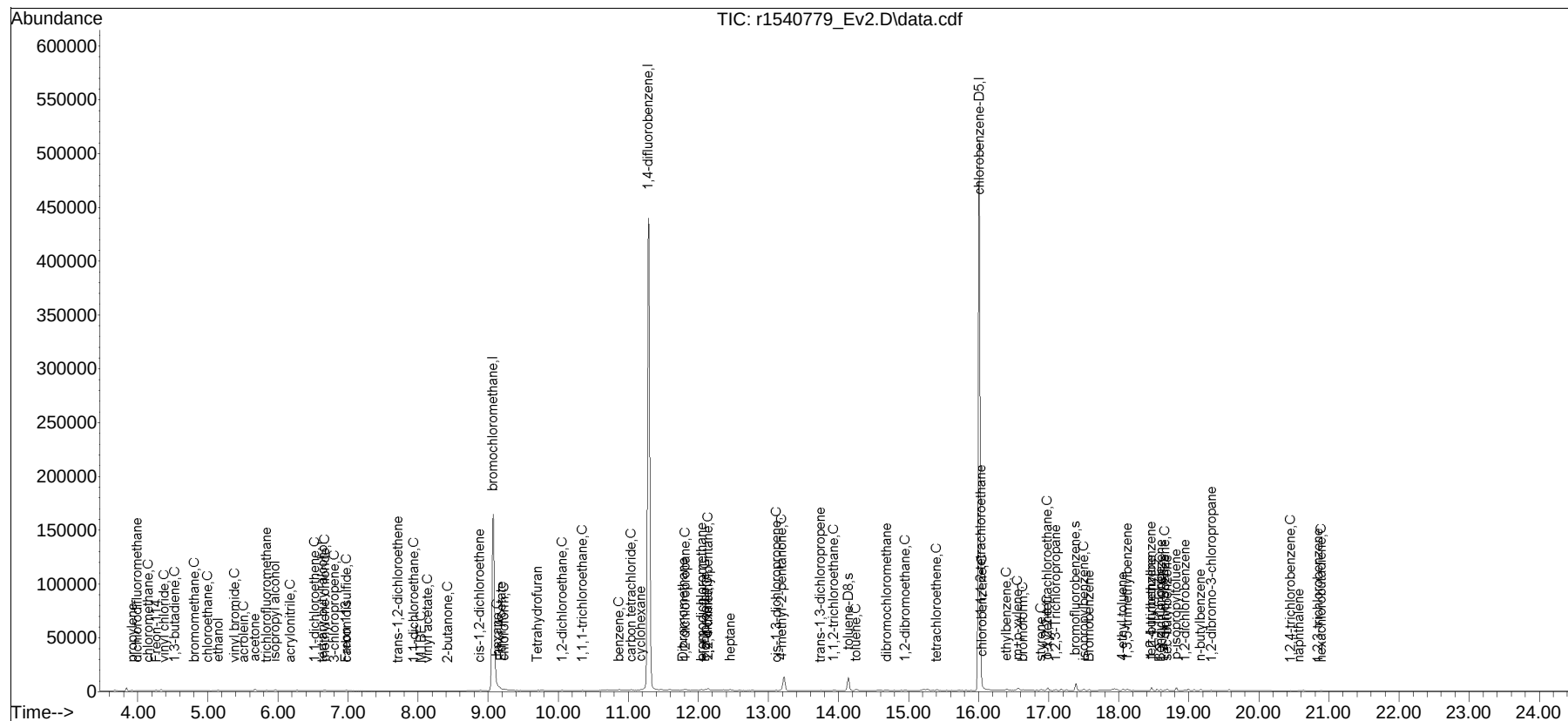
CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
70) 4-ethyl toluene	18.058	105	1311	0.017	ppbV	#	96
71) 1,3,5-trimethylbenzene	18.125	105	1085	0.016	ppbV	#	93
72) tert-butylbenzene	18.467	119	1288	0.019	ppbV		93
73) 1,2,4-trimethylbenzene	18.467	105	1159	0.018	ppbV	#	89
74) Benzyl Chloride	18.592	91	439	0.011	ppbV	#	85
75) 1,3-dichlorobenzene	18.600	146	827	0.020	ppbV	#	90
76) 1,4-dichlorobenzene	18.658	146	784	0.019	ppbV	#	87
77) sec-butylbenzene	18.692	105	1682	0.018	ppbV		93
78) p-isopropyltoluene	18.817	119	1463	0.020	ppbV		98
79) 1,2-dichlorobenzene	18.950	146	771	0.019	ppbV	#	93
80) n-butylbenzene	19.167	91	1158	0.015	ppbV		91
81) 1,2-dibromo-3-chloropr...	19.325	75	217	0.017	ppbV	#	85
82) 1,2,4-trichlorobenzene	20.450	180	390	0.015	ppbV	#	79
83) naphthalene	20.575	128	1270	0.013	ppbV	#	82
84) 1,2,3-trichlorobenzene	20.842	180	483	0.021	ppbV	#	80
85) hexachlorobutadiene	20.892	225	412	0.018	ppbV	#	87

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

```
Data Path   : O:\Forensics\Data\AirLab15\2023\11\1120SIM_I\
Data File  : r1540779_Ev2.D
Acq On     : 20 Nov 2023   7:52 PM
Operator   : AIRLAB15:RAY
Sample     : IT015-SIMSTD0.02
Misc       : WG1855600
ALS Vial   : 0    Sample Multiplier: 1
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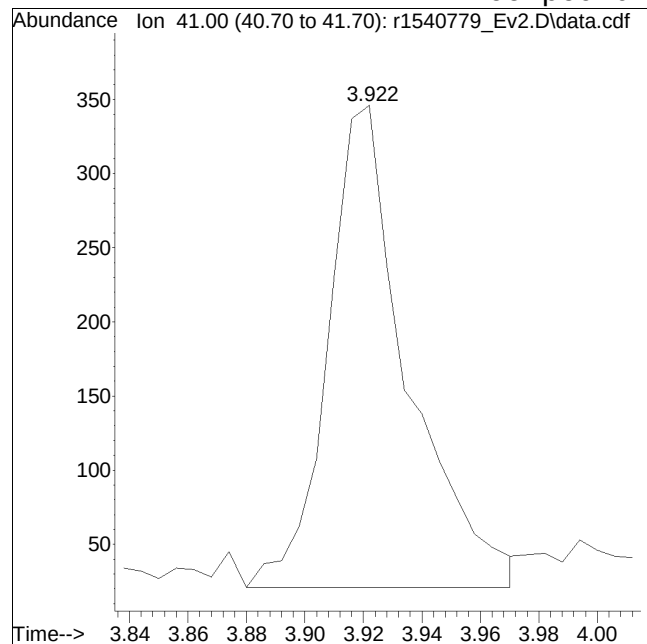
Quant Time: Nov 21 10:12:39 2023
Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration



Manual Integration Report

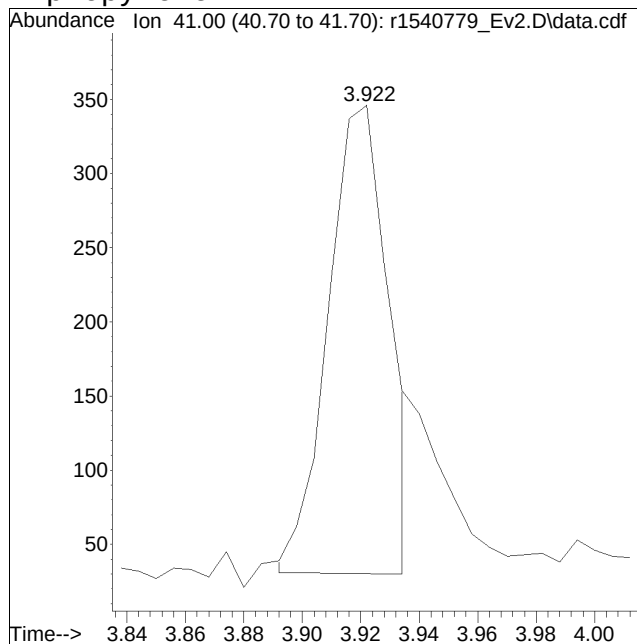
Data Path : 0:\Forensics\Data\AirLab15QMethod : TSIM15_231120.M
Data File : r1540779_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:7: 2 Instrument :
Sample : IT015-SIMSTD0.02 Quant Date : 11/21/2023 10:12 am

Compound #2: propylene



Original Peak Response = 615

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

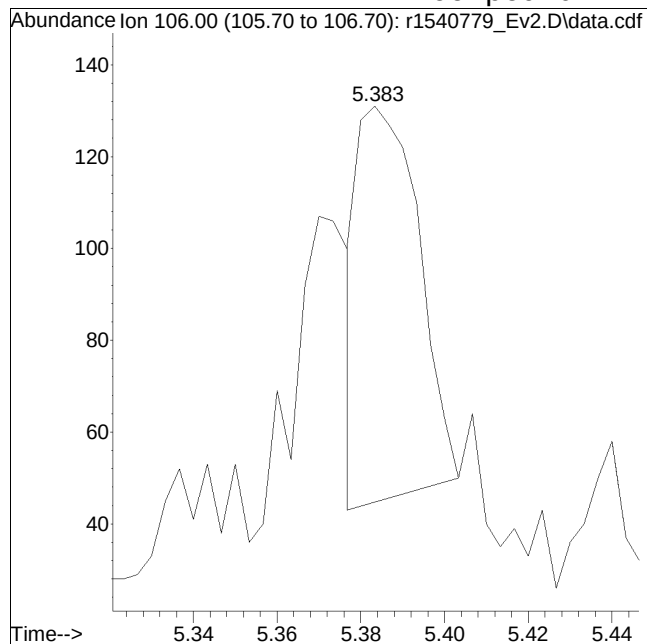


Manual Peak Response = 454 M6

Manual Integration Report

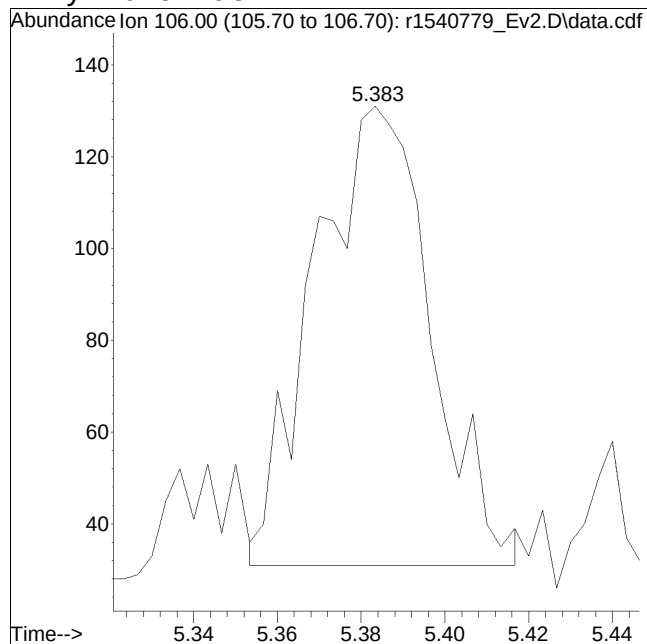
Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1540779_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:7: 2 Instrument :
Sample : IT015-SIMSTD0.02 Quant Date : 11/21/2023 10:12 am

Compound #11: vinyl bromide



Original Peak Response = 88

M4 = Poor automated baseline construction.

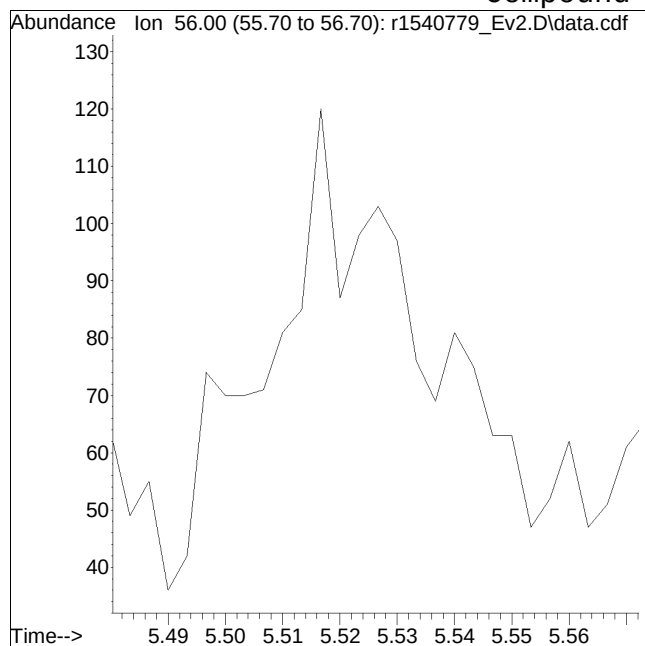


Manual Peak Response = 193 M4

Manual Integration Report

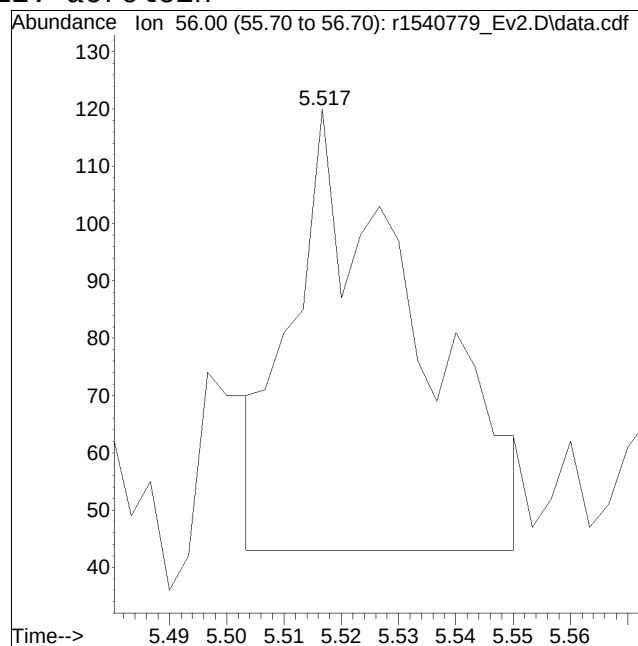
Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1540779_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:7: 2 Instrument :
Sample : IT015-SIMSTD0.02 Quant Date : 11/21/2023 10:12 am

Compound #12: acrolein



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

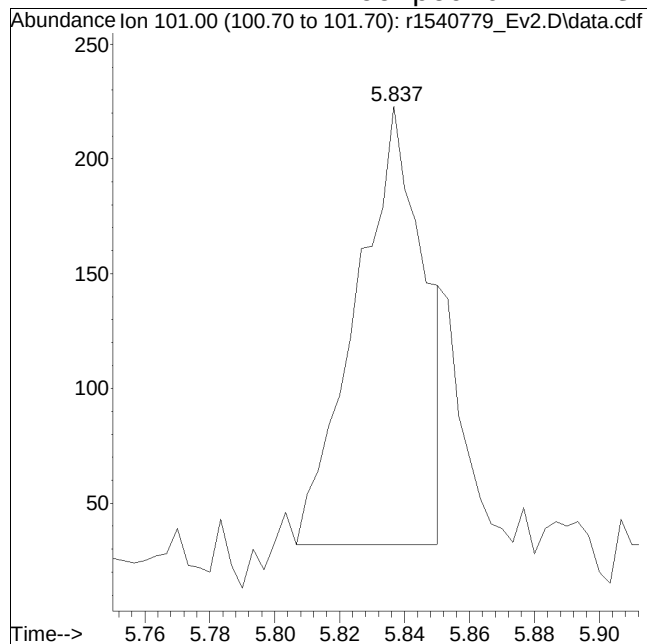


Manual Peak Response = 113 M2

Manual Integration Report

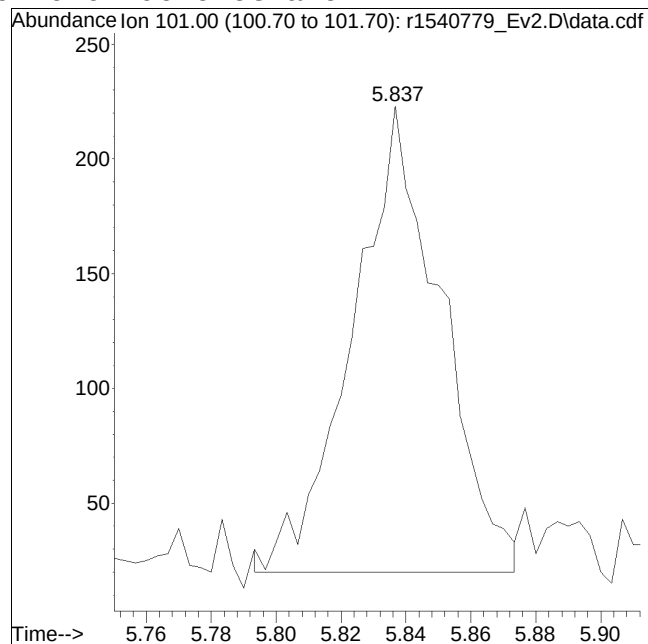
Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1540779_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:7: 2 Instrument :
Sample : IT015-SIMSTD0.02 Quant Date : 11/21/2023 10:12 am

Compound #14: trichlorofluoromethane



Original Peak Response = 276

M4 = Poor automated baseline construction.

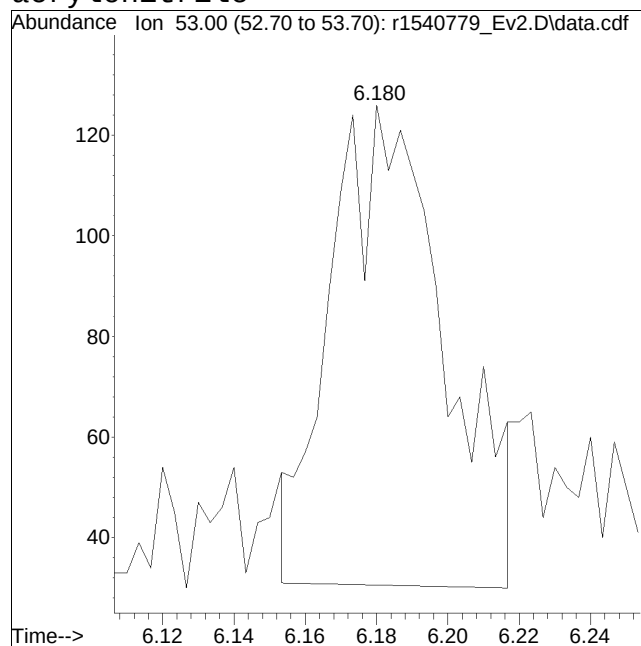
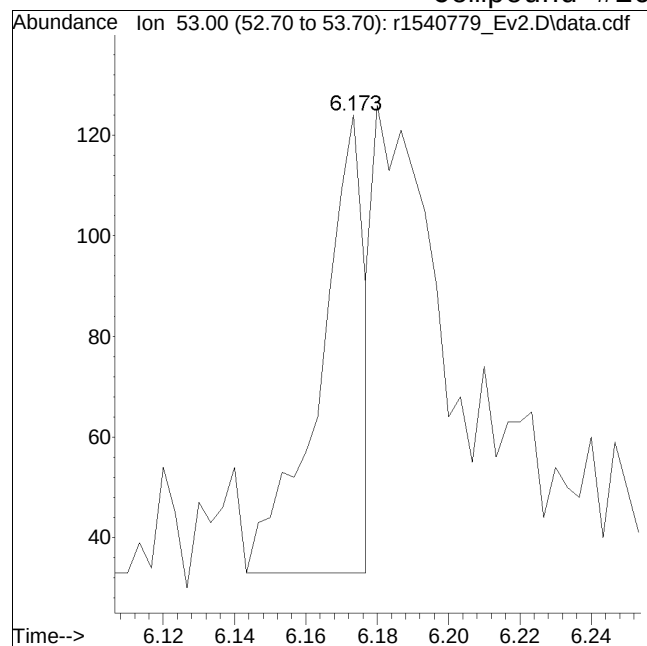


Manual Peak Response = 382 M4

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1540779_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:7: 2 Instrument :
Sample : IT015-SIMSTD0.02 Quant Date : 11/21/2023 10:12 am

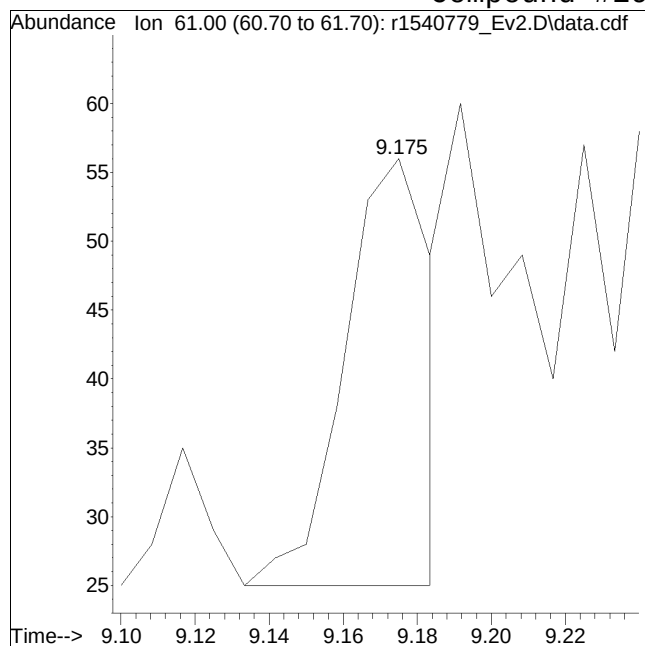
Compound #16: acrylonitrile



Manual Integration Report

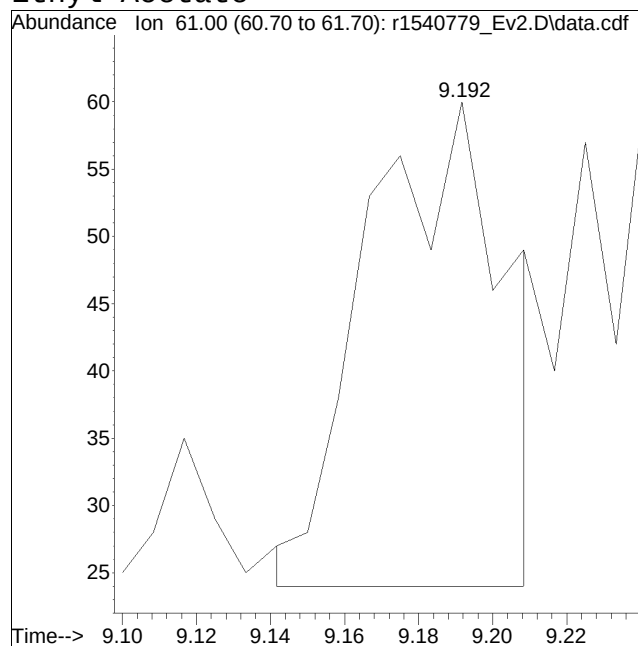
Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1540779_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:7: 2 Instrument :
Sample : IT015-SIMSTD0.02 Quant Date : 11/21/2023 10:12 am

Compound #29: Ethyl Acetate



Original Peak Response = 51

M4 = Poor automated baseline construction.

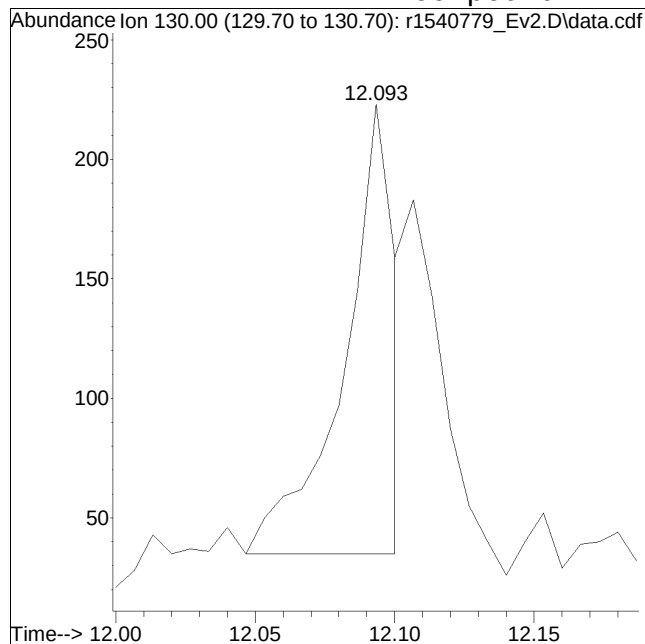


Manual Peak Response = 94 M4

Manual Integration Report

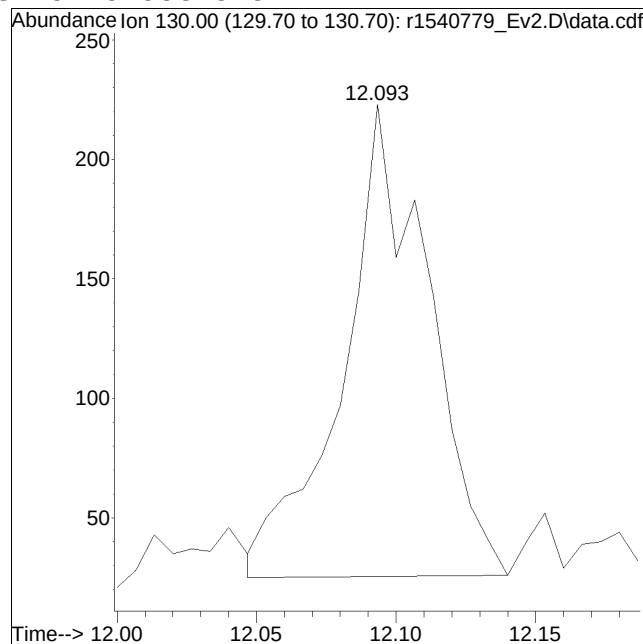
Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1540779_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:7: 2 Instrument :
Sample : IT015-SIMSTD0.02 Quant Date : 11/21/2023 10:12 am

Compound #44: trichloroethene



Original Peak Response = 236

M4 = Poor automated baseline construction.



Manual Peak Response = 419 M4

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
 Data File : r1540780_Ev2.D
 Acq On : 20 Nov 2023 8:28 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD0.05
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:12:53 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 10:12:19 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.075	49	196886	10.000	ppbV	0.00
Standard Area = 207652			Recovery =		94.82%	
33) 1,4-difluorobenzene	11.293	114	587812	10.000	ppbV	0.00
Standard Area = 601845			Recovery =		97.67%	
51) chlorobenzene-D5	16.008	54	96540	10.000	ppbV	0.00
Standard Area = 99919			Recovery =		96.62%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	0.000	65	0	0.000	ppbV	
Spiked Amount 10.000	Range 70 - 130		Recovery =		0.00%#	
53) toluene-D8	14.142	98	13262	0.172	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		1.72%#	
67) bromofluorobenzene	17.383	95	4407	0.087	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		0.87%#	
Target Compounds						
					Qvalue	
2) propylene	3.922	41	819M6	0.063	ppbV	
3) dichlorodifluoromethane	3.994	85	1257	0.064	ppbV	96
4) chloromethane	4.156	50	478	0.038	ppbV	89
5) Freon-114	4.264	85	1227	0.051	ppbV	99
6) vinyl chloride	4.384	62	654	0.054	ppbV #	73
7) 1,3-butadiene	4.528	54	404	0.042	ppbV #	71
8) bromomethane	4.816	94	617	0.064	ppbV	92
9) chloroethane	5.002	64	271	0.045	ppbV	95
10) ethanol	5.158	31	2269	0.229	ppbV	94
11) vinyl bromide	5.383	106	438	0.046	ppbV	86
12) acrolein	5.537	56	288M4	0.056	ppbV	
13) acetone	5.680	43	3664	0.229	ppbV #	96
14) trichlorofluoromethane	5.843	101	873	0.057	ppbV	95
15) isopropyl alcohol	5.970	45	2868	0.126	ppbV	98
16) acrylonitrile	6.180	53	451	0.043	ppbV #	82
17) 1,1-dichloroethene	6.534	61	1014	0.053	ppbV	91
18) tertiary butyl alcohol	6.648	59	1552	0.067	ppbV #	89
19) methylene chloride	6.672	49	1406	0.088	ppbV	99
20) 3-chloropropene	6.804	41	766	0.035	ppbV #	82
21) carbon disulfide	6.984	76	1822	0.056	ppbV #	18
22) Freon 113	6.972	101	1144	0.051	ppbV	96
23) trans-1,2-dichloroethene	7.725	61	864	0.046	ppbV	96
24) 1,1-dichloroethane	7.942	63	1157	0.046	ppbV	93

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
 Data File : r1540780_Ev2.D
 Acq On : 20 Nov 2023 8:28 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD0.05
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:12:53 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 10:12:19 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) MTBE	8.050	73	1497	0.048	ppbV	#	87
26) vinyl acetate	8.142	43	1172	0.038	ppbV	#	89
27) 2-butanone	8.425	43	1465	0.043	ppbV	#	92
28) cis-1,2-dichloroethene	8.892	61	904	0.050	ppbV		86
29) Ethyl Acetate	9.192	61	226	0.046	ppbV	#	7
30) chloroform	9.225	83	1282	0.060	ppbV	#	93
31) Tetrahydrofuran	9.708	42	841	0.039	ppbV		90
32) 1,2-dichloroethane	10.067	62	746	0.051	ppbV	#	92
34) hexane	9.142	57	1308	0.047	ppbV	#	40
36) 1,1,1-trichloroethane	10.350	97	985	0.047	ppbV	#	92
37) benzene	10.873	78	2569	0.049	ppbV		92
38) carbon tetrachloride	11.040	117	846	0.050	ppbV	#	92
39) cyclohexane	11.187	56	1411	0.047	ppbV		99
40) Dibromomethane	11.787	93	842	0.053	ppbV	#	93
41) 1,2-dichloropropane	11.827	63	858	0.038	ppbV	#	91
42) bromodichloromethane	12.047	83	1207	0.056	ppbV		89
43) 1,4-dioxane	12.127	88	608M3	0.054	ppbV		
44) trichloroethene	12.100	130	1108	0.054	ppbV		92
45) 2,2,4-trimethylpentane	12.147	57	4430	0.047	ppbV	#	99
46) heptane	12.453	43	1393	0.034	ppbV		98
47) cis-1,3-dichloropropene	13.117	75	900	0.038	ppbV	#	79
48) 4-methyl-2-pentanone	13.183	43	1403	0.030	ppbV	#	97
49) trans-1,3-dichloropropene	13.742	75	685	0.036	ppbV	#	79
50) 1,1,2-trichloroethane	13.933	97	827	0.042	ppbV		92
52) toluene	14.250	91	2769	0.047	ppbV		96
54) 2-hexanone	14.558	43	1085	0.025	ppbV	#	95
55) dibromochloromethane	14.692	129	995	0.054	ppbV		96
56) 1,2-dibromoethane	14.942	107	1171	0.045	ppbV		96
57) tetrachloroethene	15.408	166	1095	0.051	ppbV		96
58) 1,1,1,2-tetrachloroethane	16.033	131	831	0.046	ppbV		93
59) chlorobenzene	16.050	112	2247	0.051	ppbV		95
60) ethylbenzene	16.400	91	3447	0.044	ppbV		98
61) m+p-xylene	16.567	91	5310	0.086	ppbV		98
62) bromoform	16.633	173	741	0.054	ppbV		97
63) styrene	16.892	104	1933	0.043	ppbV		97
64) 1,1,2,2-tetrachloroethane	16.983	83	2137	0.048	ppbV		92
65) o-xylene	16.983	91	2724	0.044	ppbV		98
66) 1,2,3-Trichloropropane	17.100	75	1496	0.045	ppbV		95
68) isopropylbenzene	17.500	105	3413	0.045	ppbV		98
69) Bromobenzene	17.575	77	2066	0.047	ppbV		98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
 Data File : r1540780_Ev2.D
 Acq On : 20 Nov 2023 8:28 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD0.05
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:12:53 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 10:12:19 2023
 Response via : Initial Calibration

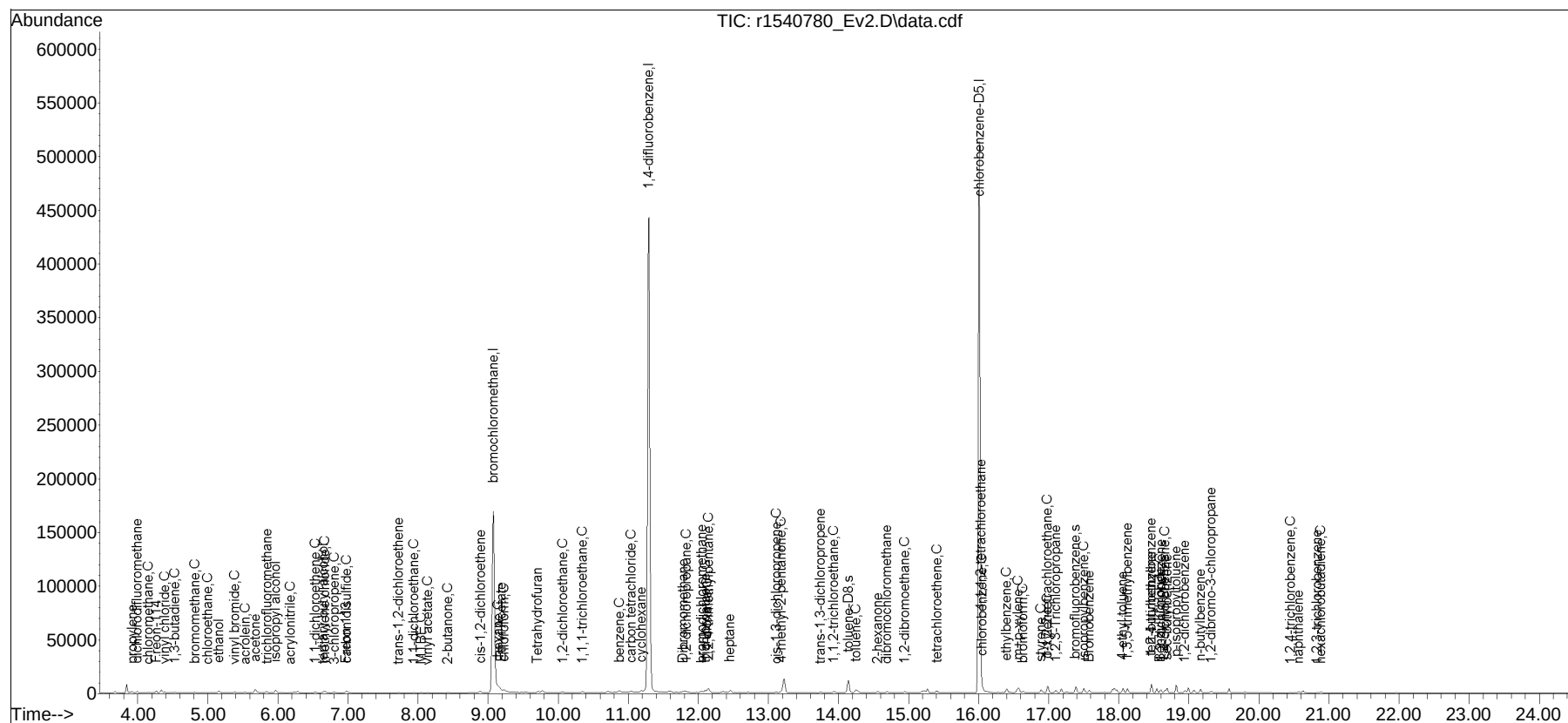
CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.058	105	3406	0.044	ppbV #	98
71) 1,3,5-trimethylbenzene	18.125	105	2829	0.040	ppbV	99
72) tert-butylbenzene	18.467	119	3287	0.048	ppbV	98
73) 1,2,4-trimethylbenzene	18.467	105	2835	0.043	ppbV #	89
74) Benzyl Chloride	18.592	91	1144	0.029	ppbV	98
75) 1,3-dichlorobenzene	18.600	146	2013	0.047	ppbV	92
76) 1,4-dichlorobenzene	18.658	146	1962	0.046	ppbV	94
77) sec-butylbenzene	18.692	105	4137	0.043	ppbV	99
78) p-isopropyltoluene	18.817	119	3448	0.045	ppbV	100
79) 1,2-dichlorobenzene	18.942	146	1901	0.046	ppbV	93
80) n-butylbenzene	19.167	91	3065	0.038	ppbV	97
81) 1,2-dibromo-3-chloropr...	19.317	75	566	0.042	ppbV	87
82) 1,2,4-trichlorobenzene	20.450	180	989	0.037	ppbV	93
83) naphthalene	20.567	128	3057	0.031	ppbV #	94
84) 1,2,3-trichlorobenzene	20.833	180	1024	0.044	ppbV #	87
85) hexachlorobutadiene	20.883	225	1086	0.048	ppbV	92

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


```
Data Path   : 0:\Forensics\Data\AirLab15\2023\11\1120SIM_I\
Data File  : r1540780_Ev2.D
Acq On     : 20 Nov 2023   8:28 PM
Operator   : AIRLAB15:RAY
Sample     : IT015-SIMSTD0.05
Misc       : WG1855600
ALS Vial   : 0    Sample Multiplier: 1
```

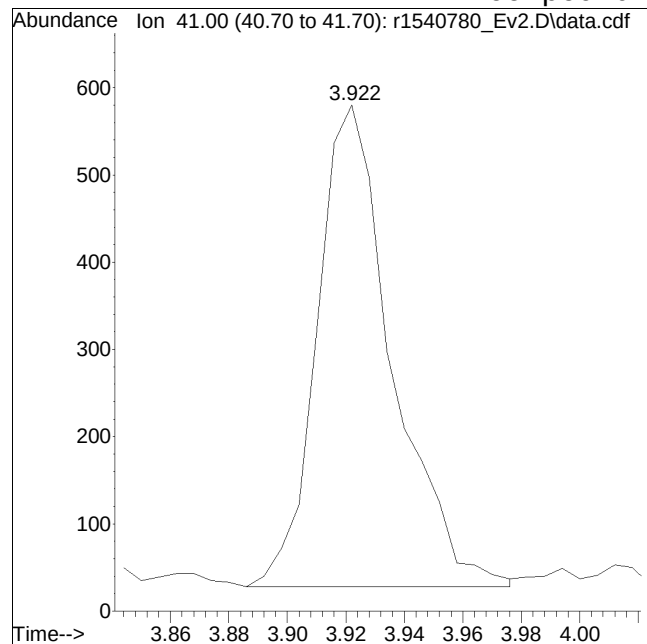
Quant Time: Nov 21 10:12:53 2023
Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration



Manual Integration Report

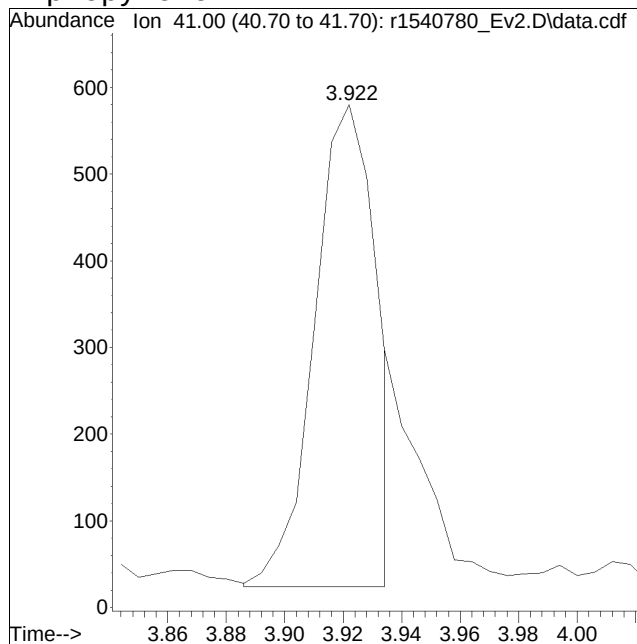
Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1540780_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:8: 8 Instrument :
Sample : IT015-SIMSTD0.05 Quant Date : 11/21/2023 10:12 am

Compound #2: propylene



Original Peak Response = 986

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

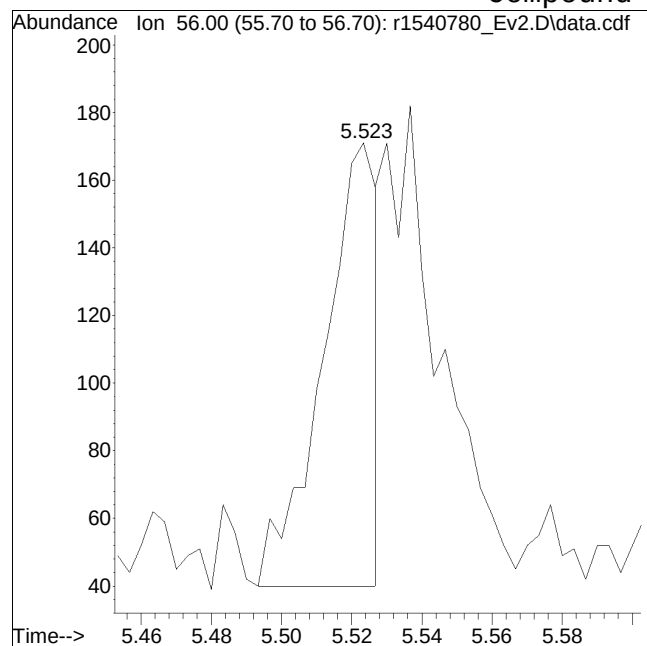


Manual Peak Response = 819 M6

Manual Integration Report

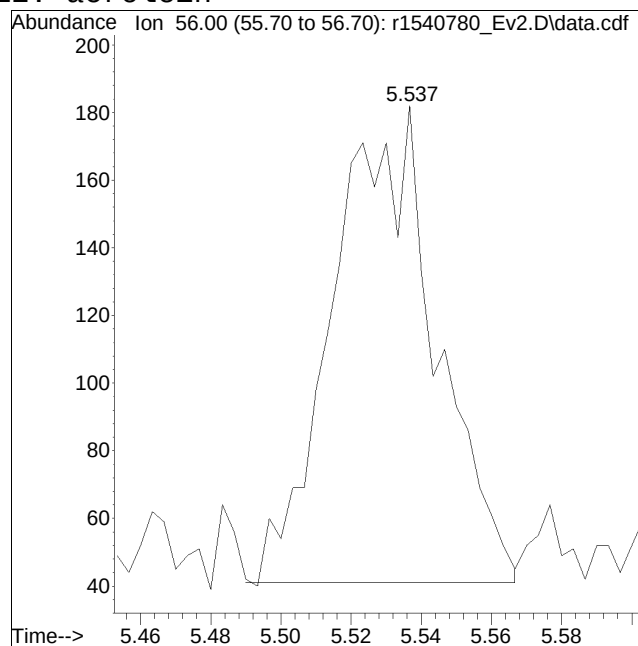
Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1540780_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:8: 8 Instrument :
Sample : IT015-SIMSTD0.05 Quant Date : 11/21/2023 10:12 am

Compound #12: acrolein



Original Peak Response = 139

M4 = Poor automated baseline construction.

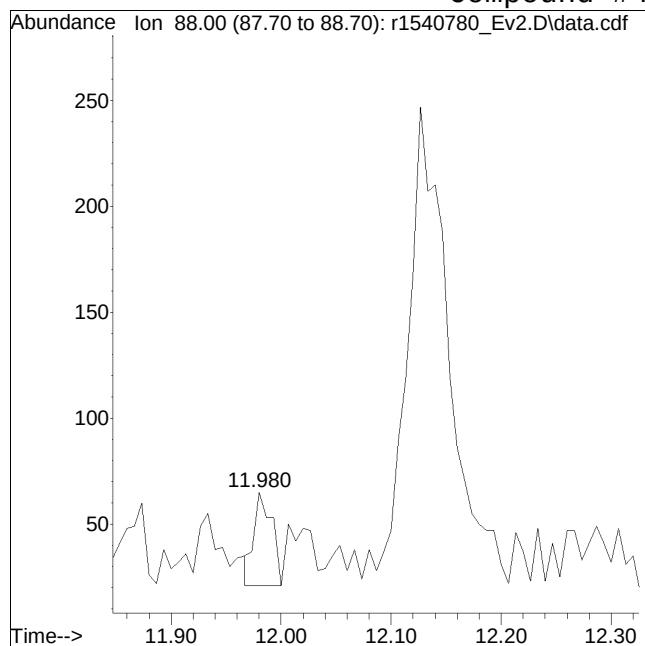


Manual Peak Response = 288 M4

Manual Integration Report

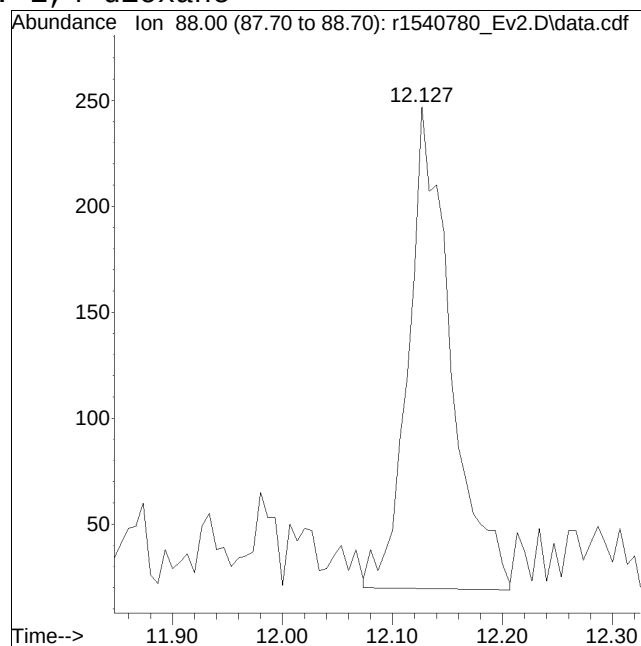
Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1540780_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:8: 8 Instrument :
Sample : IT015-SIMSTD0.05 Quant Date : 11/21/2023 10:12 am

Compound #43: 1,4-dioxane



Original Peak Response = 50

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



Manual Peak Response = 608 M3

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
 Data File : r1540781_Ev2.D
 Acq On : 20 Nov 2023 9:07 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD0.1
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:13:06 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 10:12:19 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.067	49	197223	10.000	ppbV	0.00
Standard Area = 207652			Recovery =		94.98%	
33) 1,4-difluorobenzene	11.287	114	581664	10.000	ppbV	0.00
Standard Area = 601845			Recovery =		96.65%	
51) chlorobenzene-D5	16.008	54	96413	10.000	ppbV	0.00
Standard Area = 99919			Recovery =		96.49%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	0.000	65	0d	0.000	ppbV	
Spiked Amount 10.000	Range 70 - 130		Recovery =		0.00%#	
53) toluene-D8	14.142	98	12988	0.169	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		1.69%#	
67) bromofluorobenzene	17.383	95	4247	0.084	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		0.84%#	
Target Compounds						
					Qvalue	
2) propylene	3.922	41	1276M6	0.098	ppbV	
3) dichlorodifluoromethane	3.994	85	2631	0.134	ppbV	99
4) chloromethane	4.156	50	1032	0.082	ppbV	96
5) Freon-114	4.264	85	2519	0.104	ppbV	98
6) vinyl chloride	4.384	62	1304	0.107	ppbV	94
7) 1,3-butadiene	4.528	54	782	0.080	ppbV #	78
8) bromomethane	4.816	94	1095	0.114	ppbV	99
9) chloroethane	4.996	64	601	0.100	ppbV	96
10) ethanol	5.152	31	4514	0.454	ppbV	98
11) vinyl bromide	5.383	106	1000	0.105	ppbV	92
12) acrolein	5.527	56	557	0.108	ppbV #	90
13) acetone	5.670	43	7385	0.461	ppbV #	96
14) trichlorofluoromethane	5.840	101	1867	0.121	ppbV	98
15) isopropyl alcohol	5.960	45	5417	0.238	ppbV #	95
16) acrylonitrile	6.173	53	1061M4	0.101	ppbV	
17) 1,1-dichloroethene	6.534	61	1915	0.100	ppbV	96
18) tertiary butyl alcohol	6.636	59	3004	0.129	ppbV	94
19) methylene chloride	6.672	49	2354	0.147	ppbV	100
20) 3-chloropropene	6.804	41	1569	0.072	ppbV	92
21) carbon disulfide	6.984	76	3690	0.113	ppbV #	51
22) Freon 113	6.972	101	2280	0.102	ppbV	97
23) trans-1,2-dichloroethene	7.717	61	1739	0.093	ppbV	99
24) 1,1-dichloroethane	7.942	63	2385	0.094	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
 Data File : r1540781_Ev2.D
 Acq On : 20 Nov 2023 9:07 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD0.1
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:13:06 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 10:12:19 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) MTBE	8.042	73	3048	0.097	ppbV	#	95
26) vinyl acetate	8.133	43	2574M3	0.083	ppbV		
27) 2-butanone	8.417	43	2803	0.082	ppbV	#	95
28) cis-1,2-dichloroethene	8.883	61	1781	0.098	ppbV		97
29) Ethyl Acetate	9.183	61	389	0.080	ppbV	#	25
30) chloroform	9.225	83	2698	0.126	ppbV	#	93
31) Tetrahydrofuran	9.700	42	1680	0.078	ppbV		95
32) 1,2-dichloroethane	10.058	62	1419	0.098	ppbV		94
34) hexane	9.142	57	2713	0.098	ppbV	#	55
36) 1,1,1-trichloroethane	10.350	97	1917	0.093	ppbV	#	96
37) benzene	10.867	78	5122	0.099	ppbV		99
38) carbon tetrachloride	11.047	117	1812	0.108	ppbV		96
39) cyclohexane	11.187	56	2942	0.099	ppbV		99
40) Dibromomethane	11.787	93	1446	0.092	ppbV	#	98
41) 1,2-dichloropropane	11.813	63	1750	0.078	ppbV		92
42) bromodichloromethane	12.040	83	2300	0.108	ppbV	#	93
43) 1,4-dioxane	12.127	88	1047	0.093	ppbV	#	80
44) trichloroethene	12.100	130	1751	0.087	ppbV		89
45) 2,2,4-trimethylpentane	12.140	57	8594	0.093	ppbV		99
46) heptane	12.453	43	2844	0.070	ppbV		97
47) cis-1,3-dichloropropene	13.108	75	1921	0.081	ppbV		90
48) 4-methyl-2-pentanone	13.175	43	3559	0.076	ppbV		97
49) trans-1,3-dichloropropene	13.742	75	1430	0.076	ppbV	#	86
50) 1,1,2-trichloroethane	13.933	97	1705	0.088	ppbV		96
52) toluene	14.250	91	5550	0.094	ppbV		100
54) 2-hexanone	14.550	43	2417	0.056	ppbV		97
55) dibromochloromethane	14.692	129	1885	0.102	ppbV		99
56) 1,2-dibromoethane	14.942	107	2340	0.091	ppbV		99
57) tetrachloroethene	15.400	166	2104	0.099	ppbV		96
58) 1,1,1,2-tetrachloroethane	16.033	131	1644	0.091	ppbV		97
59) chlorobenzene	16.050	112	4517	0.102	ppbV		99
60) ethylbenzene	16.400	91	6891	0.087	ppbV		98
61) m+p-xylene	16.567	91	10844	0.175	ppbV		99
62) bromoform	16.633	173	1461	0.106	ppbV		99
63) styrene	16.892	104	3733	0.083	ppbV		97
64) 1,1,2,2-tetrachloroethane	16.983	83	4281	0.097	ppbV		99
65) o-xylene	16.983	91	5452	0.087	ppbV		100
66) 1,2,3-Trichloropropane	17.100	75	3220	0.097	ppbV		98
68) isopropylbenzene	17.500	105	6838	0.091	ppbV		99
69) Bromobenzene	17.575	77	4120	0.094	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
 Data File : r1540781_Ev2.D
 Acq On : 20 Nov 2023 9:07 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD0.1
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:13:06 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 10:12:19 2023
 Response via : Initial Calibration

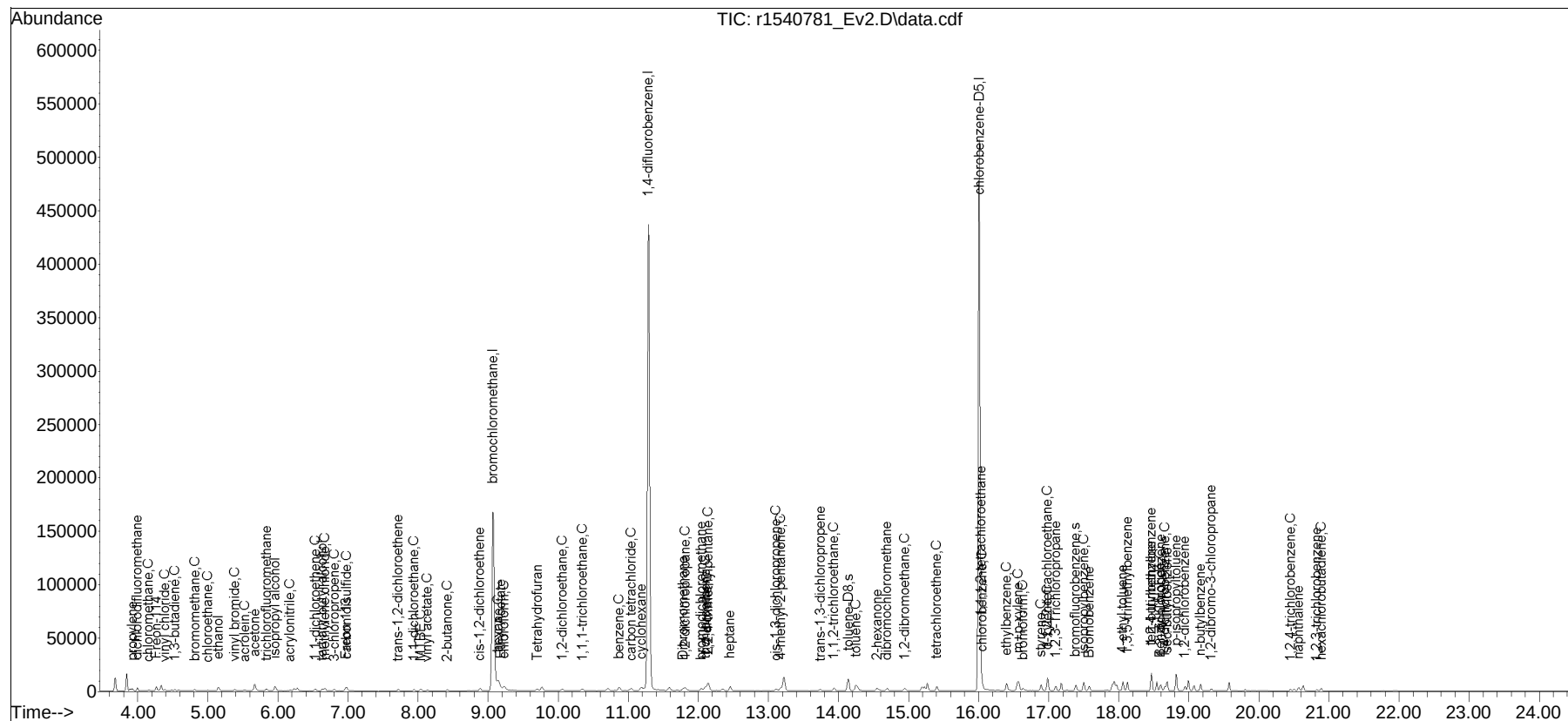
CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
70) 4-ethyl toluene	18.058	105	7046	0.092	ppbV	#	98
71) 1,3,5-trimethylbenzene	18.125	105	5706	0.082	ppbV		99
72) tert-butylbenzene	18.467	119	6556	0.095	ppbV		99
73) 1,2,4-trimethylbenzene	18.467	105	6036	0.091	ppbV		93
74) Benzyl Chloride	18.592	91	2305	0.059	ppbV		98
75) 1,3-dichlorobenzene	18.600	146	4076	0.095	ppbV	#	88
76) 1,4-dichlorobenzene	18.658	146	3908	0.092	ppbV	#	89
77) sec-butylbenzene	18.692	105	8534	0.089	ppbV		98
78) p-isopropyltoluene	18.817	119	7560	0.099	ppbV		97
79) 1,2-dichlorobenzene	18.942	146	3679	0.088	ppbV		93
80) n-butylbenzene	19.167	91	6235	0.078	ppbV		97
81) 1,2-dibromo-3-chloropr...	19.317	75	1136	0.085	ppbV	#	83
82) 1,2,4-trichlorobenzene	20.450	180	2023	0.076	ppbV		95
83) naphthalene	20.567	128	5915	0.061	ppbV	#	95
84) 1,2,3-trichlorobenzene	20.825	180	1847	0.079	ppbV	#	93
85) hexachlorobutadiene	20.892	225	2042	0.090	ppbV		95

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

```
Data Path   : O:\Forensics\Data\AirLab15\2023\11\1120SIM_I\
Data File  : r1540781_Ev2.D
Acq On     : 20 Nov 2023   9:07 PM
Operator   : AIRLAB15:RAY
Sample     : IT015-SIMSTD0.1
Misc       : WG1855600
ALS Vial   : 0    Sample Multiplier: 1
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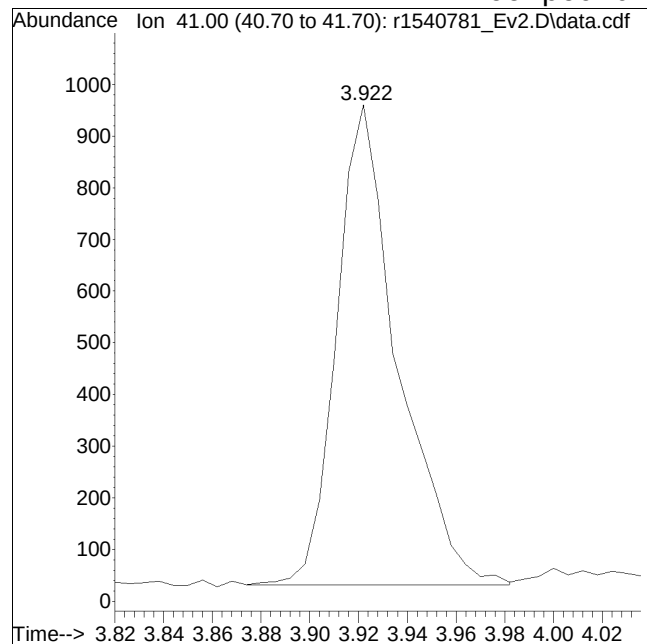
Quant Time: Nov 21 10:13:06 2023
Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration



Manual Integration Report

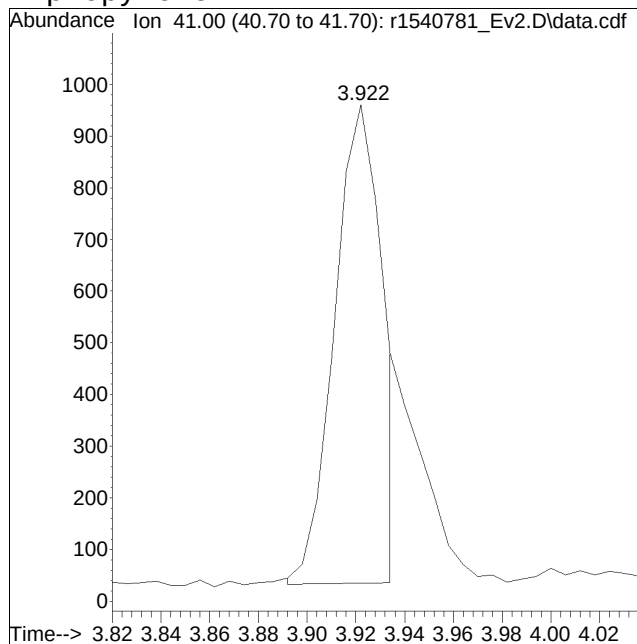
Data Path : 0:\Forensics\Data\AirLab15QMethod : TSIM15_231120.M
Data File : r1540781_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:9: 7 Instrument :
Sample : IT015-SIMSTD0.1 Quant Date : 11/21/2023 10:13 am

Compound #2: propylene



Original Peak Response = 1628

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

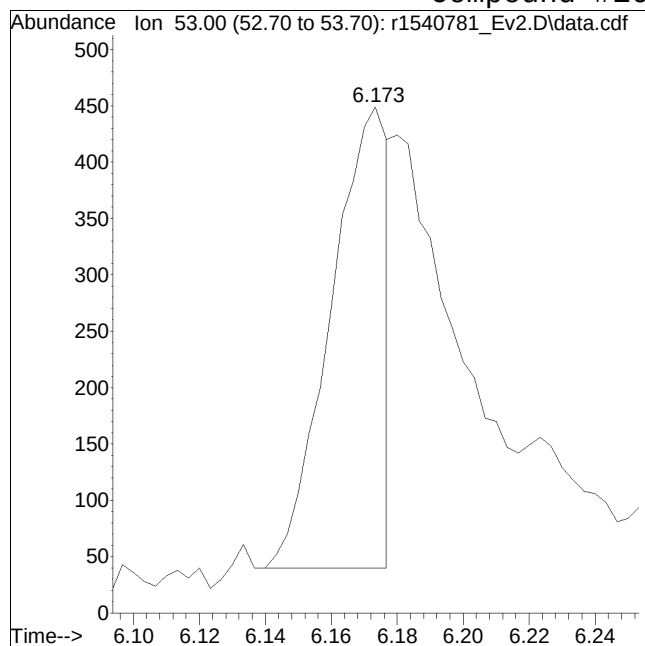


Manual Peak Response = 1276 M6

Manual Integration Report

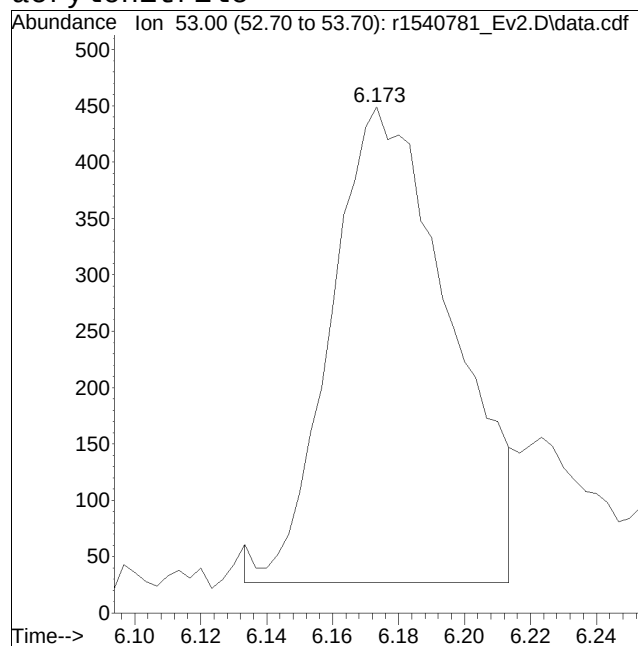
Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1540781_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:9: 7 Instrument :
Sample : IT015-SIMSTD0.1 Quant Date : 11/21/2023 10:13 am

Compound #16: acrylonitrile



Original Peak Response = 491

M4 = Poor automated baseline construction.

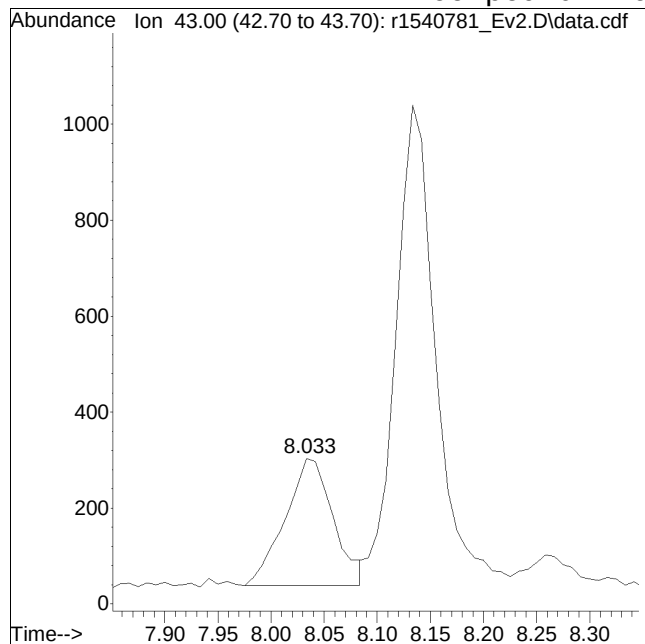


Manual Peak Response = 1061 M4

Manual Integration Report

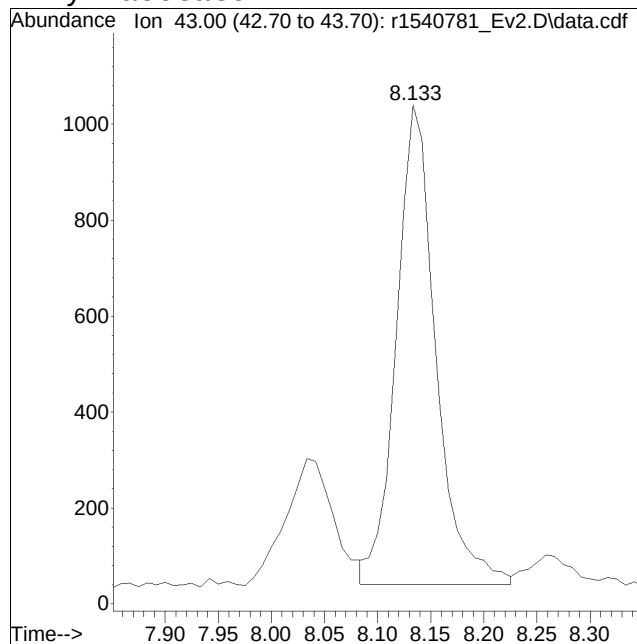
Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1540781_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:9: 7 Instrument :
Sample : IT015-SIMSTD0.1 Quant Date : 11/21/2023 10:13 am

Compound #26: vinyl acetate



Original Peak Response = 839

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



Manual Peak Response = 2574 M3

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
 Data File : r1540782_Ev2.D
 Acq On : 20 Nov 2023 9:44 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD0.2
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:13:19 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 10:12:19 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.067	49	203772	10.000	ppbV	0.00
Standard Area = 207652			Recovery =		98.13%	
33) 1,4-difluorobenzene	11.287	114	597359	10.000	ppbV	0.00
Standard Area = 601845			Recovery =		99.25%	
51) chlorobenzene-D5	16.000	54	98889	10.000	ppbV	0.00
Standard Area = 99919			Recovery =		98.97%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.933	65	216433	8.594	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		85.94%	
53) toluene-D8	14.133	98	702145	8.881	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		88.81%	
67) bromofluorobenzene	17.383	95	449883	8.699	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		86.99%	
Target Compounds						
					Qvalue	
2) propylene	3.916	41	2511M6	0.188	ppbV	
3) dichlorodifluoromethane	3.988	85	5347	0.263	ppbV	99
4) chloromethane	4.150	50	2001	0.153	ppbV	98
5) Freon-114	4.258	85	5471	0.218	ppbV	99
6) vinyl chloride	4.384	62	2750	0.218	ppbV	95
7) 1,3-butadiene	4.528	54	2008	0.200	ppbV	92
8) bromomethane	4.810	94	2325	0.234	ppbV	98
9) chloroethane	4.996	64	1297	0.209	ppbV	95
10) ethanol	5.140	31	9610	0.935	ppbV	99
11) vinyl bromide	5.380	106	2011	0.204	ppbV	92
12) acrolein	5.513	56	1014	0.191	ppbV #	33
13) acetone	5.660	43	12559	0.758	ppbV #	100
14) trichlorofluoromethane	5.833	101	3839	0.241	ppbV	97
15) isopropyl alcohol	5.950	45	7891	0.336	ppbV	97
16) acrylonitrile	6.163	53	1556	0.143	ppbV	97
17) 1,1-dichloroethene	6.528	61	4117	0.208	ppbV	98
18) tertiary butyl alcohol	6.624	59	4717	0.196	ppbV	93
19) methylene chloride	6.672	49	3894	0.236	ppbV	99
20) 3-chloropropene	6.798	41	3442	0.152	ppbV	94
21) carbon disulfide	6.978	76	7717	0.228	ppbV #	77
22) Freon 113	6.972	101	4903	0.212	ppbV	99
23) trans-1,2-dichloroethene	7.717	61	4058	0.209	ppbV	99
24) 1,1-dichloroethane	7.933	63	5077	0.194	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
 Data File : r1540782_Ev2.D
 Acq On : 20 Nov 2023 9:44 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD0.2
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:13:19 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 10:12:19 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	8.033	73	6356	0.196	ppbV	99
26) vinyl acetate	8.125	43	4927	0.154	ppbV	98
27) 2-butanone	8.400	43	5581	0.158	ppbV	98
28) cis-1,2-dichloroethene	8.883	61	3813	0.203	ppbV	92
29) Ethyl Acetate	9.167	61	967	0.191	ppbV	66
30) chloroform	9.225	83	5560	0.252	ppbV	99
31) Tetrahydrofuran	9.692	42	3259	0.146	ppbV	95
32) 1,2-dichloroethane	10.058	62	3573	0.238	ppbV	95
34) hexane	9.133	57	5724	0.201	ppbV #	57
36) 1,1,1-trichloroethane	10.342	97	4067	0.192	ppbV	98
37) benzene	10.867	78	10645	0.201	ppbV	99
38) carbon tetrachloride	11.040	117	3844	0.224	ppbV	97
39) cyclohexane	11.187	56	5900	0.193	ppbV	97
40) Dibromomethane	11.787	93	3124	0.194	ppbV #	99
41) 1,2-dichloropropane	11.813	63	3701	0.161	ppbV	97
42) bromodichloromethane	12.040	83	4918	0.225	ppbV	97
43) 1,4-dioxane	12.113	88	2242	0.194	ppbV	88
44) trichloroethene	12.093	130	3993	0.192	ppbV	93
45) 2,2,4-trimethylpentane	12.140	57	18578	0.195	ppbV	98
46) heptane	12.453	43	6095	0.145	ppbV	100
47) cis-1,3-dichloropropene	13.108	75	4249	0.175	ppbV	91
48) 4-methyl-2-pentanone	13.167	43	6879	0.144	ppbV	99
49) trans-1,3-dichloropropene	13.733	75	3174	0.165	ppbV	91
50) 1,1,2-trichloroethane	13.933	97	3653	0.184	ppbV	99
52) toluene	14.242	91	11782	0.194	ppbV	98
54) 2-hexanone	14.542	43	5605	0.126	ppbV #	94
55) dibromochloromethane	14.692	129	4082	0.215	ppbV	98
56) 1,2-dibromoethane	14.942	107	5004	0.189	ppbV	97
57) tetrachloroethene	15.400	166	4619	0.212	ppbV	99
58) 1,1,1,2-tetrachloroethane	16.033	131	3555	0.192	ppbV	99
59) chlorobenzene	16.050	112	9459	0.208	ppbV	100
60) ethylbenzene	16.400	91	14323	0.177	ppbV	99
61) m+p-xylene	16.558	91	23007	0.363	ppbV	97
62) bromoform	16.633	173	3024	0.213	ppbV	98
63) styrene	16.892	104	8926	0.193	ppbV	99
64) 1,1,2,2-tetrachloroethane	16.983	83	8929	0.196	ppbV	99
65) o-xylene	16.983	91	12006	0.188	ppbV	97
66) 1,2,3-Trichloropropane	17.100	75	6581	0.193	ppbV	99
68) isopropylbenzene	17.500	105	15019	0.195	ppbV	97
69) Bromobenzene	17.575	77	8797	0.196	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
 Data File : r1540782_Ev2.D
 Acq On : 20 Nov 2023 9:44 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD0.2
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:13:19 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 10:12:19 2023
 Response via : Initial Calibration

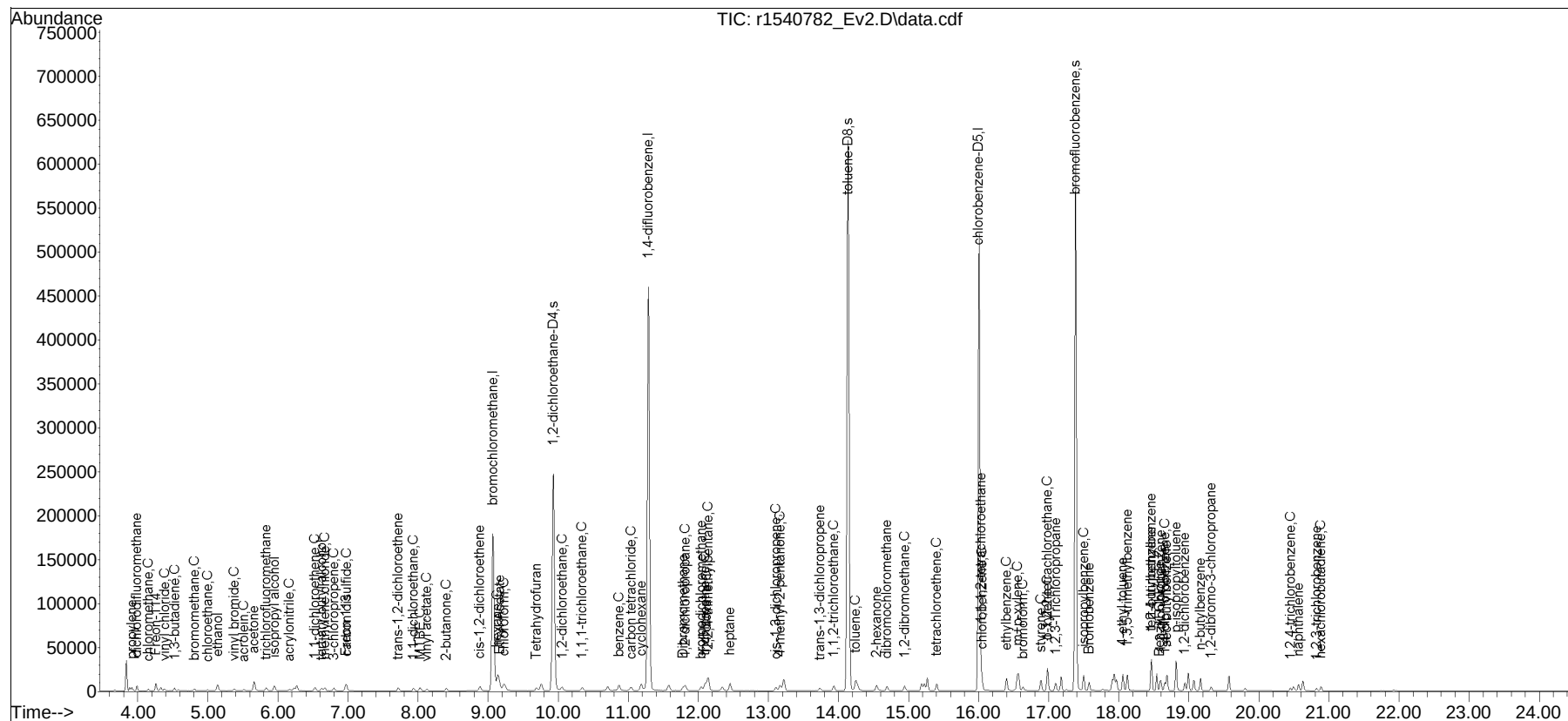
CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.058	105	15146	0.192	ppbV	98
71) 1,3,5-trimethylbenzene	18.125	105	13221	0.184	ppbV	99
72) tert-butylbenzene	18.467	119	14314	0.203	ppbV	99
73) 1,2,4-trimethylbenzene	18.467	105	13232	0.194	ppbV	94
74) Benzyl Chloride	18.583	91	5197	0.130	ppbV	97
75) 1,3-dichlorobenzene	18.600	146	8790	0.200	ppbV	93
76) 1,4-dichlorobenzene	18.658	146	8351	0.192	ppbV	94
77) sec-butylbenzene	18.683	105	18517	0.187	ppbV	97
78) p-isopropyltoluene	18.817	119	16235	0.208	ppbV	96
79) 1,2-dichlorobenzene	18.942	146	7957	0.186	ppbV	93
80) n-butylbenzene	19.167	91	13604	0.167	ppbV	96
81) 1,2-dibromo-3-chloropr...	19.317	75	2409	0.176	ppbV	86
82) 1,2,4-trichlorobenzene	20.450	180	4152	0.152	ppbV	97
83) naphthalene	20.567	128	11680	0.117	ppbV	98
84) 1,2,3-trichlorobenzene	20.825	180	3534	0.148	ppbV	93
85) hexachlorobutadiene	20.883	225	4102	0.176	ppbV	95

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

```
Data Path   : 0:\Forensics\Data\AirLab15\2023\11\1120SIM_I\
Data File  : r1540782_Ev2.D
Acq On     : 20 Nov 2023   9:44 PM
Operator   : AIRLAB15:RAY
Sample     : IT015-SIMSTD0.2
Misc       : WG1855600
ALS Vial   : 0    Sample Multiplier: 1
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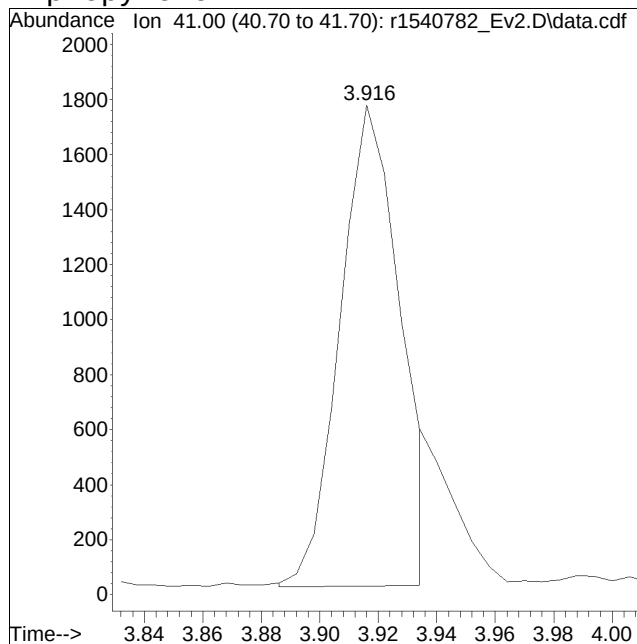
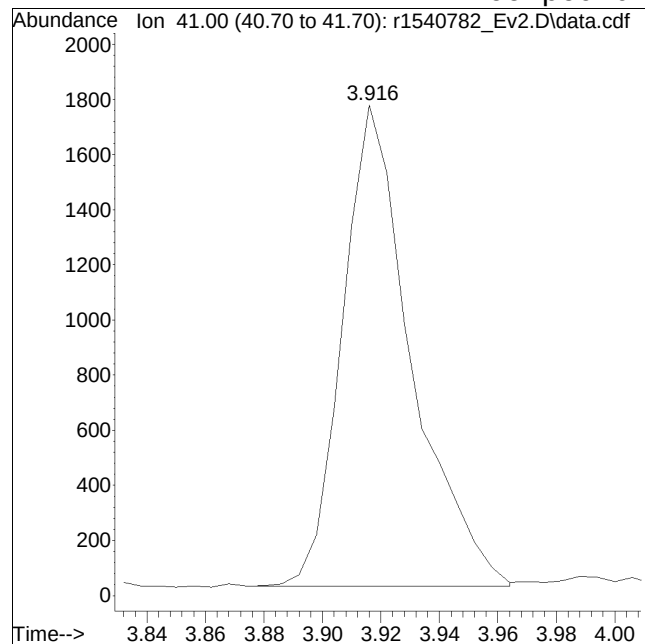
Quant Time: Nov 21 10:13:19 2023
Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration



Manual Integration Report

Data Path : 0:\Forensics\Data\AirLab15QMethod : TSIM15_231120.M
Data File : r1540782_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:9: 4 Instrument :
Sample : IT015-SIMSTD0.2 Quant Date : 11/21/2023 10:13 am

Compound #2: propylene



Original Peak Response = 2859

Manual Peak Response = 2511 M6

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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
 Data File : r1540783_Ev2.D
 Acq On : 20 Nov 2023 10:22 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD0.5
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:13:32 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 10:12:19 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.067	49	204590	10.000	ppbV	0.00
Standard Area = 207652			Recovery =		98.53%	
33) 1,4-difluorobenzene	11.287	114	592879	10.000	ppbV	0.00
Standard Area = 601845			Recovery =		98.51%	
51) chlorobenzene-D5	16.000	54	98383	10.000	ppbV	0.00
Standard Area = 99919			Recovery =		98.46%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.933	65	219697	8.790	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		87.90%	
53) toluene-D8	14.133	98	710720	9.036	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		90.36%	
67) bromofluorobenzene	17.383	95	466217	9.061	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		90.61%	
Target Compounds						
					Qvalue	
2) propylene	3.922	41	5975M6	0.444	ppbV	
3) dichlorodifluoromethane	3.994	85	13412	0.657	ppbV	100
4) chloromethane	4.156	50	5082	0.388	ppbV	98
5) Freon-114	4.264	85	13466	0.534	ppbV	99
6) vinyl chloride	4.384	62	6701	0.528	ppbV	98
7) 1,3-butadiene	4.528	54	4771	0.472	ppbV	94
8) bromomethane	4.810	94	5625	0.564	ppbV	100
9) chloroethane	4.996	64	3123	0.500	ppbV	98
10) ethanol	5.140	31	23742	2.302	ppbV	98
11) vinyl bromide	5.380	106	4834	0.489	ppbV	99
12) acrolein	5.517	56	2630	0.492	ppbV	96
13) acetone	5.660	43	29844	1.795	ppbV #	100
14) trichlorofluoromethane	5.837	101	9321	0.583	ppbV	99
15) isopropyl alcohol	5.950	45	19210	0.814	ppbV	99
16) acrylonitrile	6.170	53	5948	0.544	ppbV	95
17) 1,1-dichloroethene	6.534	61	10013	0.503	ppbV	98
18) tertiary butyl alcohol	6.624	59	11626	0.482	ppbV	94
19) methylene chloride	6.672	49	8794	0.530	ppbV	100
20) 3-chloropropene	6.804	41	8612	0.380	ppbV	97
21) carbon disulfide	6.978	76	19090	0.563	ppbV #	91
22) Freon 113	6.972	101	11868	0.512	ppbV	99
23) trans-1,2-dichloroethene	7.717	61	9867	0.506	ppbV	99
24) 1,1-dichloroethane	7.942	63	12551	0.478	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
 Data File : r1540783_Ev2.D
 Acq On : 20 Nov 2023 10:22 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD0.5
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:13:32 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 10:12:19 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	8.025	73	15689	0.482	ppbV	98
26) vinyl acetate	8.125	43	12096	0.377	ppbV	98
27) 2-butanone	8.400	43	13571	0.384	ppbV	99
28) cis-1,2-dichloroethene	8.883	61	9442	0.501	ppbV	99
29) Ethyl Acetate	9.167	61	2477	0.488	ppbV #	59
30) chloroform	9.225	83	13541	0.611	ppbV	100
31) Tetrahydrofuran	9.683	42	8540M4	0.382	ppbV	
32) 1,2-dichloroethane	10.058	62	8065	0.534	ppbV	98
34) hexane	9.133	57	13629	0.482	ppbV #	67
36) 1,1,1-trichloroethane	10.342	97	9876	0.470	ppbV	99
37) benzene	10.867	78	25439	0.484	ppbV	100
38) carbon tetrachloride	11.040	117	9393	0.550	ppbV	96
39) cyclohexane	11.187	56	14815	0.488	ppbV	99
40) Dibromomethane	11.780	93	7421	0.464	ppbV #	100
41) 1,2-dichloropropane	11.813	63	8667	0.381	ppbV	97
42) bromodichloromethane	12.040	83	12275	0.565	ppbV	98
43) 1,4-dioxane	12.107	88	5419	0.474	ppbV	99
44) trichloroethene	12.093	130	9759	0.473	ppbV	94
45) 2,2,4-trimethylpentane	12.140	57	46229	0.490	ppbV	98
46) heptane	12.453	43	15034	0.361	ppbV	98
47) cis-1,3-dichloropropene	13.108	75	10734	0.447	ppbV	97
48) 4-methyl-2-pentanone	13.158	43	16692	0.352	ppbV	98
49) trans-1,3-dichloropropene	13.733	75	8396	0.441	ppbV	97
50) 1,1,2-trichloroethane	13.933	97	8767	0.445	ppbV	99
52) toluene	14.242	91	28847	0.479	ppbV	98
54) 2-hexanone	14.542	43	14254	0.323	ppbV	98
55) dibromochloromethane	14.692	129	10170	0.537	ppbV	99
56) 1,2-dibromoethane	14.942	107	12681	0.482	ppbV	99
57) tetrachloroethene	15.400	166	11082	0.511	ppbV	99
58) 1,1,1,2-tetrachloroethane	16.033	131	8781	0.477	ppbV	99
59) chlorobenzene	16.050	112	22958	0.507	ppbV	98
60) ethylbenzene	16.400	91	36019	0.448	ppbV	99
61) m+p-xylene	16.558	91	57982	0.919	ppbV	99
62) bromoform	16.633	173	7625	0.541	ppbV	100
63) styrene	16.883	104	22359	0.485	ppbV	99
64) 1,1,2,2-tetrachloroethane	16.983	83	22283	0.492	ppbV	99
65) o-xylene	16.983	91	29212	0.459	ppbV	100
66) 1,2,3-Trichloropropane	17.092	75	16523	0.488	ppbV	100
68) isopropylbenzene	17.500	105	37332	0.488	ppbV	99
69) Bromobenzene	17.575	77	21814	0.489	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
 Data File : r1540783_Ev2.D
 Acq On : 20 Nov 2023 10:22 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD0.5
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:13:32 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 10:12:19 2023
 Response via : Initial Calibration

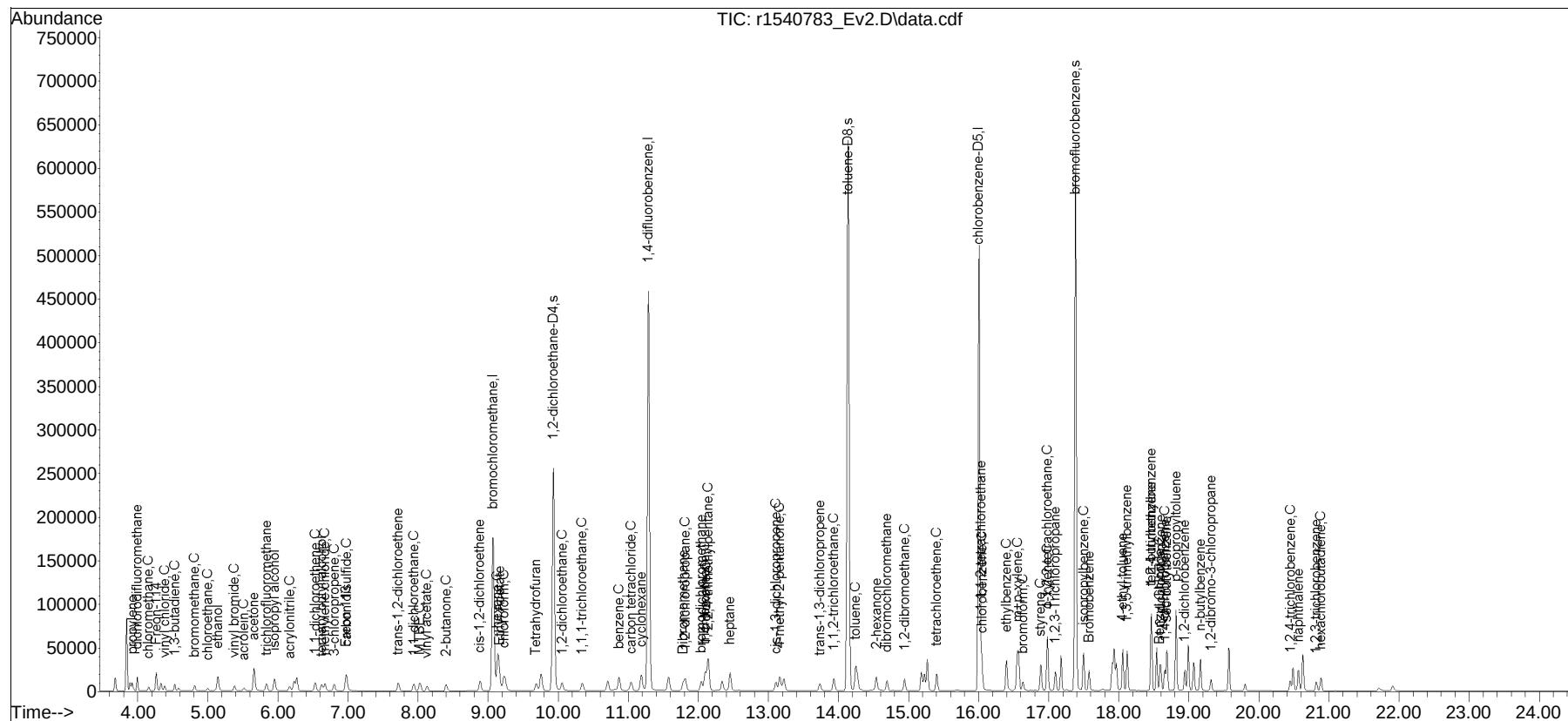
CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.058	105	38845	0.495	ppbV	99
71) 1,3,5-trimethylbenzene	18.117	105	37455	0.525	ppbV	99
72) tert-butylbenzene	18.467	119	35796	0.509	ppbV	100
73) 1,2,4-trimethylbenzene	18.467	105	33502	0.493	ppbV	96
74) Benzyl Chloride	18.583	91	13649	0.342	ppbV	98
75) 1,3-dichlorobenzene	18.600	146	21945	0.501	ppbV	95
76) 1,4-dichlorobenzene	18.658	146	21878	0.505	ppbV	95
77) sec-butylbenzene	18.683	105	47648	0.484	ppbV	97
78) p-isopropyltoluene	18.817	119	43093	0.554	ppbV	95
79) 1,2-dichlorobenzene	18.942	146	20755	0.489	ppbV	96
80) n-butylbenzene	19.167	91	36002	0.443	ppbV	94
81) 1,2-dibromo-3-chloropr...	19.317	75	6737	0.494	ppbV	90
82) 1,2,4-trichlorobenzene	20.450	180	13002	0.477	ppbV	99
83) naphthalene	20.567	128	38728	0.391	ppbV	99
84) 1,2,3-trichlorobenzene	20.817	180	11783	0.497	ppbV	96
85) hexachlorobutadiene	20.883	225	12448	0.538	ppbV	96

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

```
Data Path   : 0:\Forensics\Data\AirLab15\2023\11\1120SIM_I\
Data File  : r1540783_Ev2.D
Acq On     : 20 Nov 2023  10:22 PM
Operator   : AIRLAB15:RAY
Sample     : IT015-SIMSTD0.5
Misc       : WG1855600
ALS Vial   : 0      Sample Multiplier: 1
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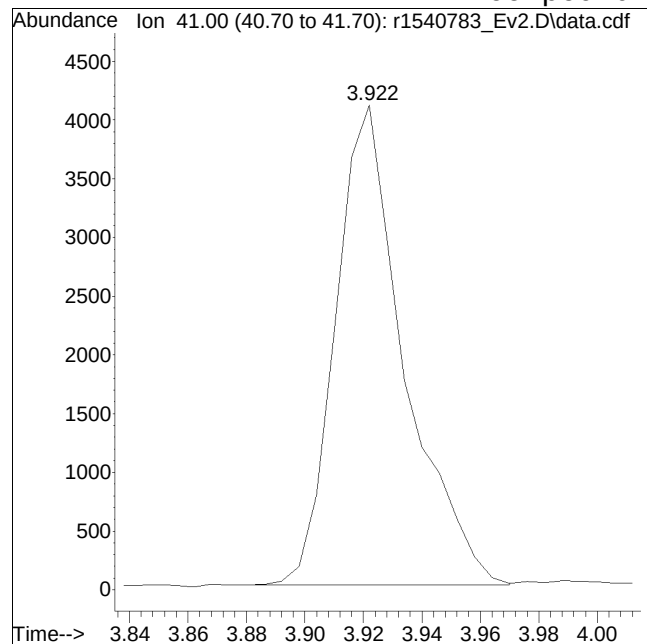
Quant Time: Nov 21 10:13:32 2023
Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration



Manual Integration Report

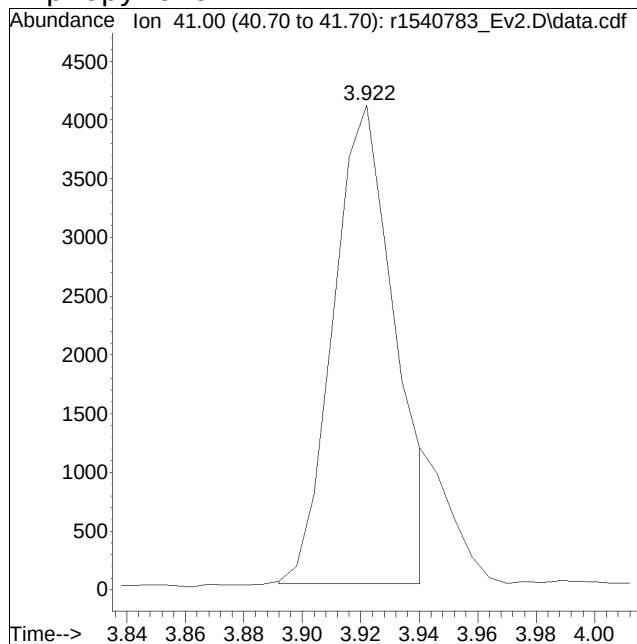
Data Path : 0:\Forensics\Data\AirLab15QMethod : TSIM15_231120.M
Data File : r1540783_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:0: 2 Instrument :
Sample : IT015-SIMSTD0.5 Quant Date : 11/21/2023 10:13 am

Compound #2: propylene



Original Peak Response = 6664

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

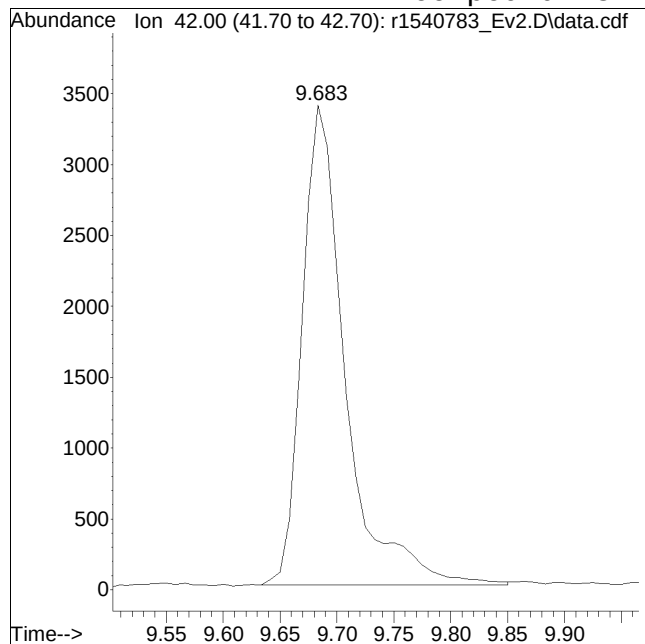


Manual Peak Response = 5975 M6

Manual Integration Report

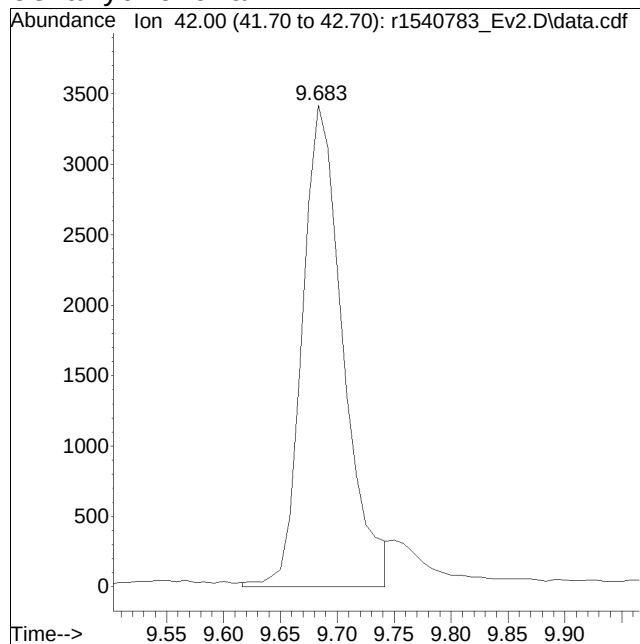
Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1540783_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:0: 2 Instrument :
Sample : IT015-SIMSTD0.5 Quant Date : 11/21/2023 10:13 am

Compound #31: Tetrahydrofuran



Original Peak Response = 8954

M4 = Poor automated baseline construction.



Manual Peak Response = 8540 M4

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
 Data File : r1540784_Ev2.D
 Acq On : 20 Nov 2023 11:03 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD1.0
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:13:45 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 10:12:19 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.067	49	204983	10.000	ppbV	0.00
Standard Area = 207652			Recovery =		98.71%	
33) 1,4-difluorobenzene	11.287	114	598345	10.000	ppbV	0.00
Standard Area = 601845			Recovery =		99.42%	
51) chlorobenzene-D5	16.000	54	99246	10.000	ppbV	0.00
Standard Area = 99919			Recovery =		99.33%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.933	65	217311	8.615	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		86.15%	
53) toluene-D8	14.133	98	699348	8.814	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		88.14%	
67) bromofluorobenzene	17.383	95	466706	8.991	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		89.91%	
Target Compounds						
					Qvalue	
2) propylene	3.916	41	11894M6	0.883	ppbV	
3) dichlorodifluoromethane	3.994	85	26426	1.291	ppbV	100
4) chloromethane	4.156	50	10068	0.767	ppbV	98
5) Freon-114	4.258	85	26918	1.065	ppbV	97
6) vinyl chloride	4.384	62	13270	1.044	ppbV	99
7) 1,3-butadiene	4.528	54	9717	0.960	ppbV	99
8) bromomethane	4.810	94	11385	1.139	ppbV	99
9) chloroethane	4.996	64	6294	1.006	ppbV	99
10) ethanol	5.134	31	47256	4.572	ppbV	99
11) vinyl bromide	5.377	106	9919	1.002	ppbV	98
12) acrolein	5.510	56	5217	0.975	ppbV	98
13) acetone	5.650	43	60293	3.619	ppbV	100
14) trichlorofluoromethane	5.833	101	18703	1.167	ppbV	99
15) isopropyl alcohol	5.940	45	38549	1.631	ppbV	100
16) acrylonitrile	6.163	53	10398	0.949	ppbV	94
17) 1,1-dichloroethene	6.528	61	20048	1.006	ppbV	99
18) tertiary butyl alcohol	6.612	59	23411	0.969	ppbV	99
19) methylene chloride	6.672	49	17400	1.047	ppbV	99
20) 3-chloropropene	6.798	41	17216	0.758	ppbV	99
21) carbon disulfide	6.978	76	38796	1.141	ppbV	96
22) Freon 113	6.972	101	23660	1.019	ppbV	100
23) trans-1,2-dichloroethene	7.717	61	20092	1.029	ppbV	100
24) 1,1-dichloroethane	7.933	63	24997	0.950	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
 Data File : r1540784_Ev2.D
 Acq On : 20 Nov 2023 11:03 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD1.0
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:13:45 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 10:12:19 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	8.017	73	31700	0.973	ppbV	99
26) vinyl acetate	8.125	43	25053	0.779	ppbV	98
27) 2-butanone	8.392	43	27394	0.773	ppbV	99
28) cis-1,2-dichloroethene	8.883	61	18988	1.006	ppbV	98
29) Ethyl Acetate	9.158	61	4842	0.953	ppbV	72
30) chloroform	9.225	83	27010	1.216	ppbV	99
31) Tetrahydrofuran	9.675	42	16773	0.749	ppbV	100
32) 1,2-dichloroethane	10.050	62	15566	1.030	ppbV	99
34) hexane	9.133	57	27823	0.974	ppbV	80
36) 1,1,1-trichloroethane	10.342	97	19805	0.935	ppbV	99
37) benzene	10.867	78	51075	0.962	ppbV	100
38) carbon tetrachloride	11.040	117	18964	1.101	ppbV	96
39) cyclohexane	11.187	56	29476	0.963	ppbV	97
40) Dibromomethane	11.780	93	14868	0.921	ppbV #	99
41) 1,2-dichloropropane	11.813	63	17611	0.767	ppbV	98
42) bromodichloromethane	12.040	83	25594	1.166	ppbV	98
43) 1,4-dioxane	12.100	88	11104	0.961	ppbV	97
44) trichloroethene	12.093	130	19943	0.958	ppbV	98
45) 2,2,4-trimethylpentane	12.140	57	93120	0.978	ppbV	99
46) heptane	12.453	43	30328	0.721	ppbV	99
47) cis-1,3-dichloropropene	13.108	75	22020	0.908	ppbV	99
48) 4-methyl-2-pentanone	13.150	43	33229	0.694	ppbV	99
49) trans-1,3-dichloropropene	13.733	75	17148	0.892	ppbV	98
50) 1,1,2-trichloroethane	13.933	97	17757	0.894	ppbV	99
52) toluene	14.242	91	57543	0.946	ppbV	100
54) 2-hexanone	14.533	43	29641	0.665	ppbV	98
55) dibromochloromethane	14.692	129	21058	1.103	ppbV	99
56) 1,2-dibromoethane	14.942	107	25840	0.973	ppbV	100
57) tetrachloroethene	15.400	166	22076	1.010	ppbV	99
58) 1,1,1,2-tetrachloroethane	16.033	131	17837	0.960	ppbV	99
59) chlorobenzene	16.050	112	45856	1.004	ppbV	100
60) ethylbenzene	16.400	91	72382	0.892	ppbV	99
61) m+p-xylene	16.558	91	116548	1.831	ppbV	100
62) bromoform	16.633	173	15938	1.120	ppbV	98
63) styrene	16.883	104	45994	0.989	ppbV	99
64) 1,1,2,2-tetrachloroethane	16.983	83	44860	0.982	ppbV	99
65) o-xylene	16.983	91	59429	0.925	ppbV	100
66) 1,2,3-Trichloropropane	17.092	75	33049	0.967	ppbV	100
68) isopropylbenzene	17.500	105	74934	0.971	ppbV	100
69) Bromobenzene	17.575	77	44199	0.982	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
 Data File : r1540784_Ev2.D
 Acq On : 20 Nov 2023 11:03 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD1.0
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:13:45 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 10:12:19 2023
 Response via : Initial Calibration

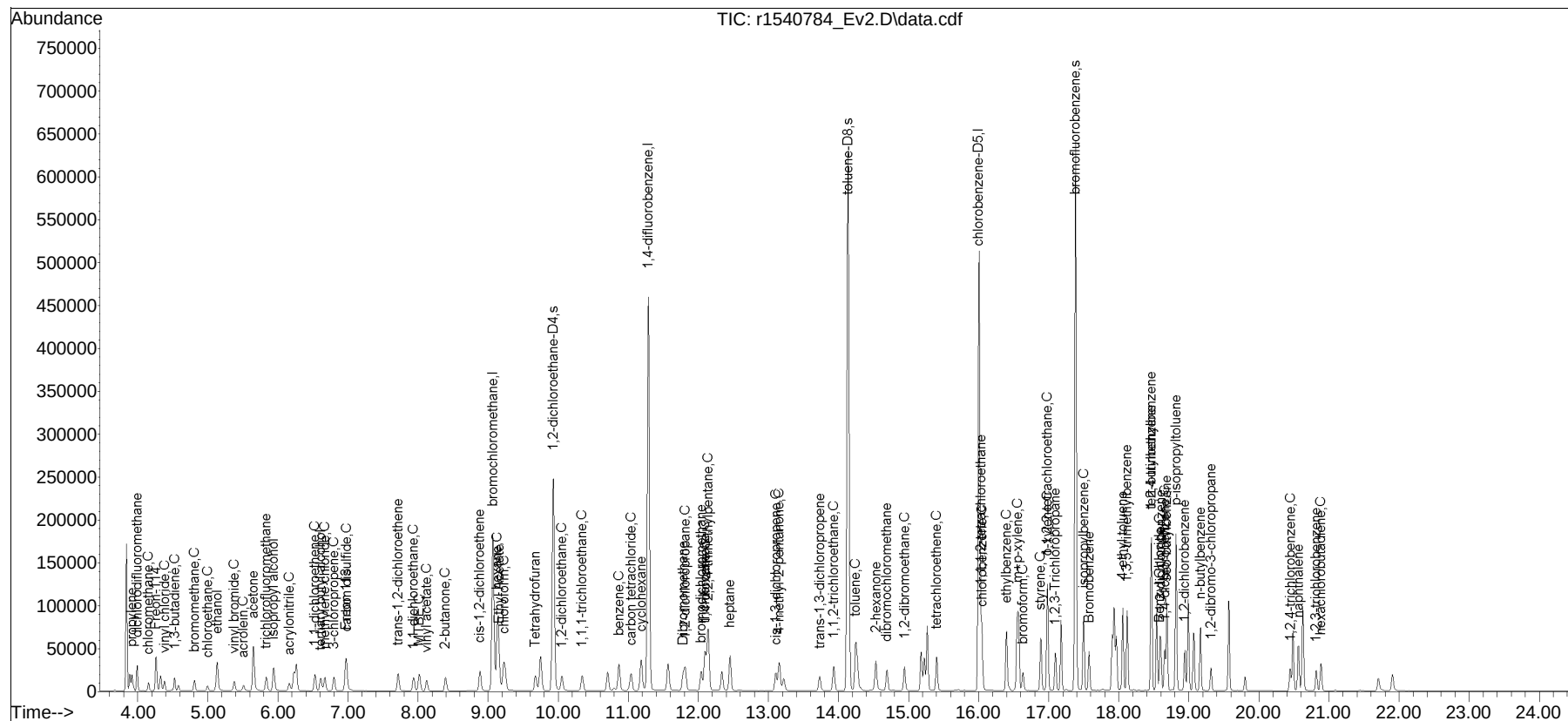
CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.058	105	78616	0.993	ppbV	99
71) 1,3,5-trimethylbenzene	18.117	105	67824	0.942	ppbV	98
72) tert-butylbenzene	18.467	119	72752	1.026	ppbV	99
73) 1,2,4-trimethylbenzene	18.467	105	68110	0.994	ppbV	97
74) Benzyl Chloride	18.583	91	31232	0.776	ppbV	97
75) 1,3-dichlorobenzene	18.600	146	44281	1.002	ppbV	95
76) 1,4-dichlorobenzene	18.658	146	44396	1.016	ppbV	97
77) sec-butylbenzene	18.683	105	95273	0.960	ppbV	98
78) p-isopropyltoluene	18.817	119	86551	1.104	ppbV	95
79) 1,2-dichlorobenzene	18.942	146	42198	0.985	ppbV	96
80) n-butylbenzene	19.167	91	74255	0.906	ppbV	93
81) 1,2-dibromo-3-chloropr...	19.317	75	14174	1.030	ppbV	92
82) 1,2,4-trichlorobenzene	20.450	180	28615	1.041	ppbV	99
83) naphthalene	20.567	128	83830	0.839	ppbV	100
84) 1,2,3-trichlorobenzene	20.817	180	26216	1.095	ppbV	96
85) hexachlorobutadiene	20.883	225	26644	1.142	ppbV	96

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

```
Data Path   : 0:\Forensics\Data\AirLab15\2023\11\1120SIM_I\
Data File  : r1540784_Ev2.D
Acq On     : 20 Nov 2023  11:03 PM
Operator   : AIRLAB15:RAY
Sample     : IT015-SIMSTD1.0
Misc       : WG1855600
ALS Vial   : 0    Sample Multiplier: 1
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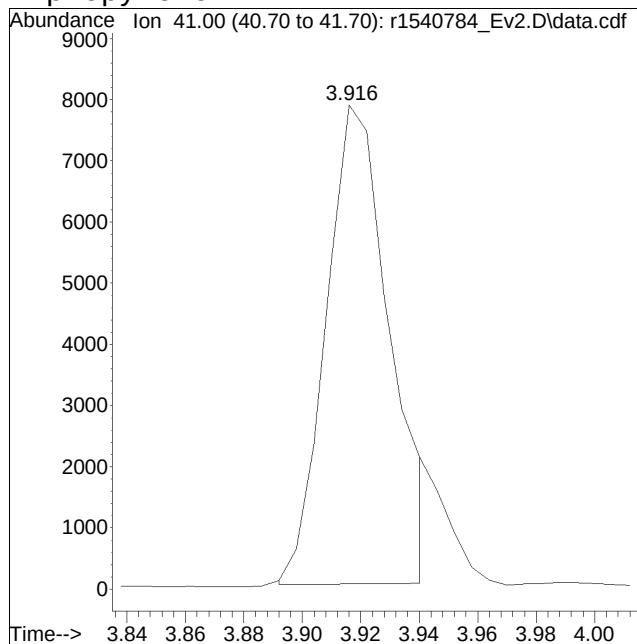
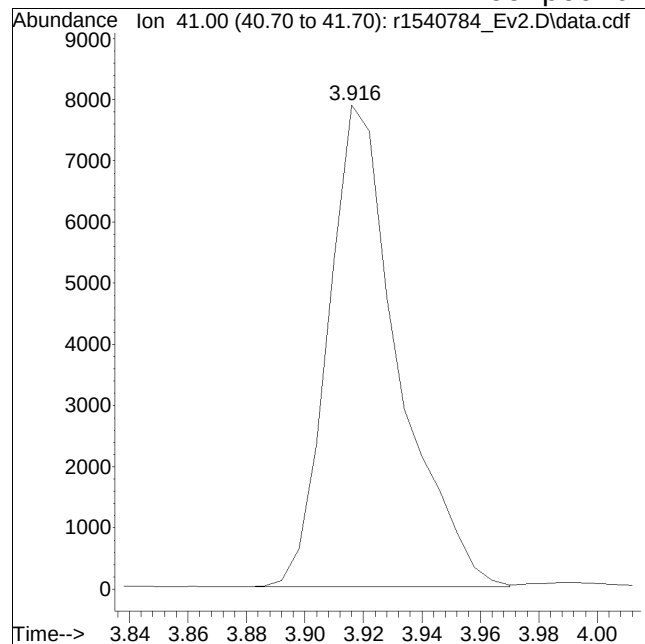
Quant Time: Nov 21 10:13:45 2023
Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration



Manual Integration Report

Data Path : 0:\Forensics\Data\AirLab15QMethod : TSIM15_231120.M
Data File : r1540784_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:1: 3 Instrument :
Sample : IT015-SIMSTD1.0 Quant Date : 11/21/2023 10:13 am

Compound #2: propylene



Original Peak Response = 13122

Manual Peak Response = 11894 M6

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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
 Data File : r1540785_Ev2.D
 Acq On : 20 Nov 2023 11:42 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD5.0
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:09:30 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Nov 10 11:21:53 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.067	49	207652	10.000	ppbV	-0.06
Standard Area = 207652			Recovery =	100.00%		
33) 1,4-difluorobenzene	11.287	114	601845	10.000	ppbV	-0.05
Standard Area = 601845			Recovery =	100.00%		
51) chlorobenzene-D5	16.000	54	99919	10.000	ppbV	-0.04
Standard Area = 99919			Recovery =	100.00%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.933	65	221817	8.541	ppbV	-0.05
Spiked Amount 10.000	Range 70 - 130		Recovery =	85.41%		
53) toluene-D8	14.133	98	708436	8.753	ppbV	-0.05
Spiked Amount 10.000	Range 70 - 130		Recovery =	87.53%		
67) bromofluorobenzene	17.383	95	455332	8.613	ppbV	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery =	86.13%		
Target Compounds						
					Qvalue	
2) propylene	3.916	41	51352M6	3.602	ppbV	
3) dichlorodifluoromethane	3.994	85	128845	6.478	ppbV	99
4) chloromethane	4.156	50	48718	3.518	ppbV	92
5) Freon-114	4.264	85	129580	5.092	ppbV	89
6) vinyl chloride	4.384	62	66043	5.150	ppbV	98
7) 1,3-butadiene	4.528	54	46017	4.452	ppbV	85
8) bromomethane	4.810	94	55848	5.596	ppbV	98
9) chloroethane	4.996	64	30775	4.863	ppbV #	85
10) ethanol	5.128	31	228010	22.337	ppbV #	78
11) vinyl bromide	5.380	106	46713	4.635	ppbV	99
12) acrolein	5.503	56	24929	4.546	ppbV #	93
13) acetone	5.643	43	274815	15.473	ppbV #	69
14) trichlorofluoromethane	5.837	101	91604	5.770	ppbV	98
15) isopropyl alcohol	5.927	45	170510	6.699	ppbV #	92
16) acrylonitrile	6.157	53	57954	5.257	ppbV	99
17) 1,1-dichloroethene	6.528	61	99444	4.917	ppbV	99
18) tertiary butyl alcohol	6.594	59	112600	4.530	ppbV #	90
19) methylene chloride	6.672	49	82084	4.887	ppbV	84
20) 3-chloropropene	6.798	41	84843	3.526	ppbV #	92
21) carbon disulfide	6.978	76	187972	5.565	ppbV #	90
22) Freon 113	6.972	101	115095	4.907	ppbV	91
23) trans-1,2-dichloroethene	7.717	61	96422	4.861	ppbV	94
24) 1,1-dichloroethane	7.942	63	123164	4.594	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
 Data File : r1540785_Ev2.D
 Acq On : 20 Nov 2023 11:42 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD5.0
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:09:30 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Nov 10 11:21:53 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) MTBE	8.008	73	152095	4.599	ppbV		94
26) vinyl acetate	8.117	43	115667	3.416	ppbV #		90
27) 2-butanone	8.383	43	131133	3.525	ppbV #		86
28) cis-1,2-dichloroethene	8.883	61	95432	4.986	ppbV		99
29) Ethyl Acetate	9.150	61	24260	4.679	ppbV #		30
30) chloroform	9.225	83	131932	5.994	ppbV #		95
31) Tetrahydrofuran	9.658	42	81651	3.464	ppbV #		85
32) 1,2-dichloroethane	10.050	62	75067	4.916	ppbV		97
34) hexane	9.133	57	130932	4.522	ppbV #		45
36) 1,1,1-trichloroethane	10.342	97	98437	4.595	ppbV		98
37) benzene	10.867	78	251837	4.711	ppbV		99
38) carbon tetrachloride	11.040	117	97663	5.708	ppbV		97
39) cyclohexane	11.187	56	141844M3	4.584	ppbV		
40) Dibromomethane	11.780	93	71130	4.338	ppbV #		90
41) 1,2-dichloropropane	11.813	63	87824	3.740	ppbV		95
42) bromodichloromethane	12.040	83	126486	5.798	ppbV		97
43) 1,4-dioxane	12.087	88	54640	4.686	ppbV		97
44) trichloroethene	12.093	130	99394M6	4.746	ppbV		
45) 2,2,4-trimethylpentane	12.140	57	440210	4.581	ppbV #		86
46) heptane	12.453	43	144223	3.266	ppbV #		78
47) cis-1,3-dichloropropene	13.108	75	118248	4.810	ppbV #		86
48) 4-methyl-2-pentanone	13.142	43	164688	3.230	ppbV #		80
49) trans-1,3-dichloropropene	13.733	75	94132	4.830	ppbV #		86
50) 1,1,2-trichloroethane	13.933	97	87812	4.351	ppbV		92
52) toluene	14.242	91	288243	4.691	ppbV		98
54) 2-hexanone	14.525	43	152158	3.236	ppbV #		75
55) dibromochloromethane	14.692	129	110575	5.802	ppbV		99
56) 1,2-dibromoethane	14.942	107	133740	4.996	ppbV		99
57) tetrachloroethene	15.400	166	111198	5.082	ppbV		94
58) 1,1,1,2-tetrachloroethane	16.033	131	90907	4.847	ppbV		98
59) chlorobenzene	16.050	112	232203	5.071	ppbV		94
60) ethylbenzene	16.400	91	373720	4.554	ppbV		93
61) m+p-xylene	16.567	91	604529	9.406	ppbV		95
62) bromoform	16.633	173	90339	6.411	ppbV		98
63) styrene	16.883	104	239939	5.132	ppbV		98
64) 1,1,2,2-tetrachloroethane	16.975	83	236538	5.156	ppbV		99
65) o-xylene	16.983	91	305338	4.704	ppbV		93
66) 1,2,3-Trichloropropane	17.092	75	162525	4.693	ppbV #		91
68) isopropylbenzene	17.500	105	370344	4.753	ppbV		95
69) Bromobenzene	17.575	77	215584	4.740	ppbV		98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
 Data File : r1540785_Ev2.D
 Acq On : 20 Nov 2023 11:42 PM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD5.0
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:09:30 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Fri Nov 10 11:21:53 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.058	105	398226	4.996	ppbV	96
71) 1,3,5-trimethylbenzene	18.117	105	397863	5.569	ppbV	93
72) tert-butylbenzene	18.467	119	371602	5.235	ppbV	98
73) 1,2,4-trimethylbenzene	18.467	105	360874	5.247	ppbV	92
74) Benzyl Chloride	18.583	91	192775	4.691	ppbV	96
75) 1,3-dichlorobenzene	18.600	146	245549M3	5.557	ppbV	
76) 1,4-dichlorobenzene	18.658	146	243337	5.567	ppbV	97
77) sec-butylbenzene	18.683	105	488413	4.881	ppbV	98
78) p-isopropyltoluene	18.817	119	425959	5.436	ppbV	99
79) 1,2-dichlorobenzene	18.942	146	229744	5.341	ppbV	96
80) n-butylbenzene	19.158	91	397597	4.773	ppbV	97
81) 1,2-dibromo-3-chloropr...	19.308	75	80983	5.823	ppbV #	80
82) 1,2,4-trichlorobenzene	20.442	180	173052	6.351	ppbV	98
83) naphthalene	20.558	128	454871	4.528	ppbV	99
84) 1,2,3-trichlorobenzene	20.817	180	143391	6.035	ppbV	95
85) hexachlorobutadiene	20.883	225	146433	6.411	ppbV	98

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

Sub List : Default - All compounds listed3\11\1120SIM_I\r1540785_Ev2.D

Data Path : 0:\Forensics\Data\AirLab15\2023\11\1120SIM_I\

Data File : r1540785_Ev2.D

Acq On : 20 Nov 2023 11:42 PM

Operator : AIRLAB15:RAY

Sample : IT015-SIMSTD5.0

Misc : WG1855600

ALS Vial : 0 Sample Multiplier: 1

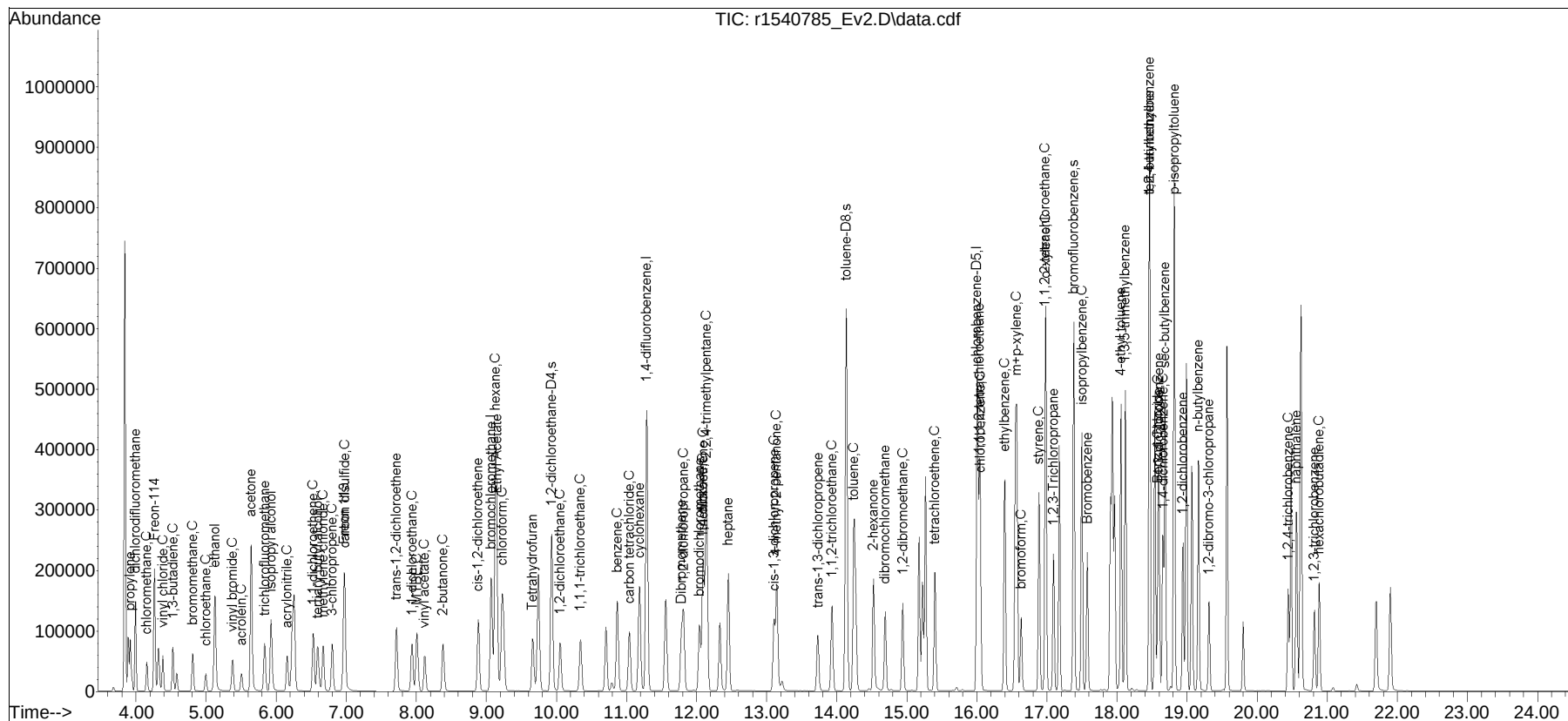
Quant Time: Nov 21 10:09:30 2023

Quant Method : 0:\Forensics\Data\AirLab15\2023\11\1120SIM_I\TSIM15_231120.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

QLast Update : Fri Nov 10 11:21:53 2023

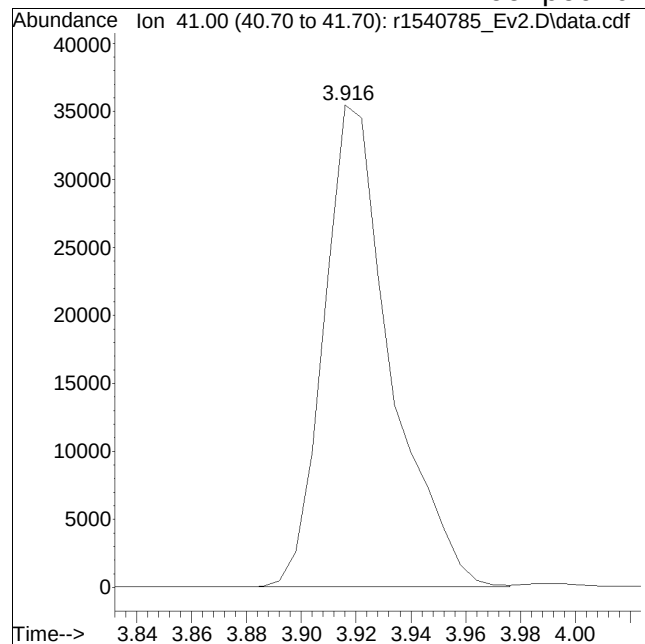
Response via : Initial Calibration



Manual Integration Report

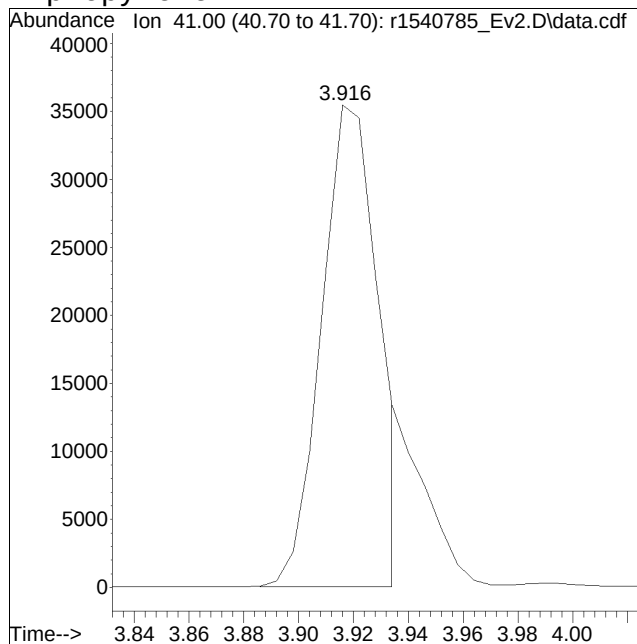
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Data File : r1540785_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:1: 2 Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 11/21/2023 10:09 am

Compound #2: propylene



Original Peak Response = 59891

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

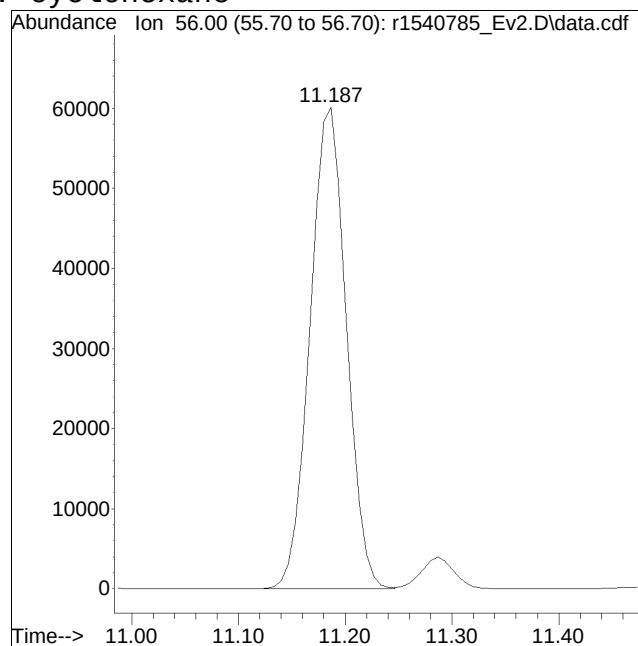
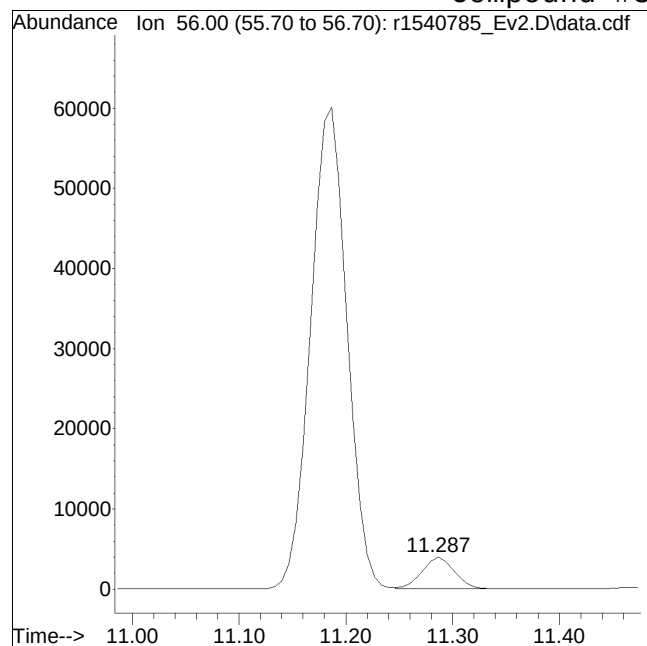


Manual Peak Response = 51352 M6

Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1540785_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:1: 2 Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 11/21/2023 10:09 am

Compound #39: cyclohexane



Original Peak Response = 8382

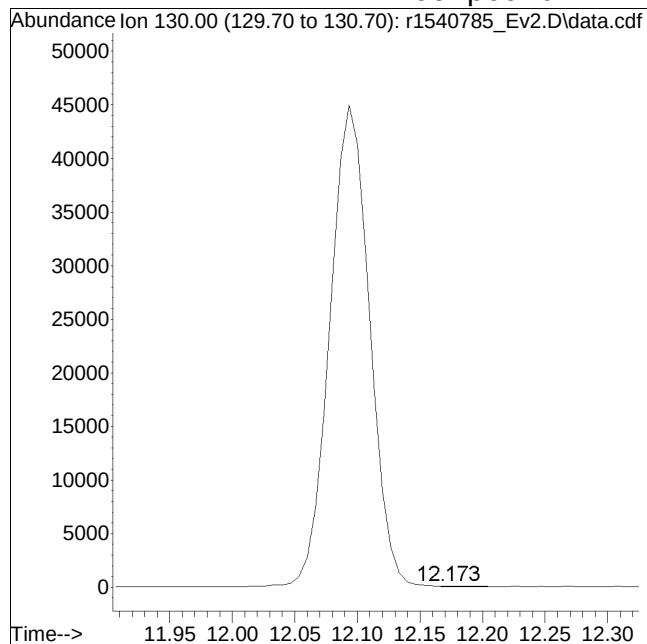
Manual Peak Response = 141844 M3

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

Manual Integration Report

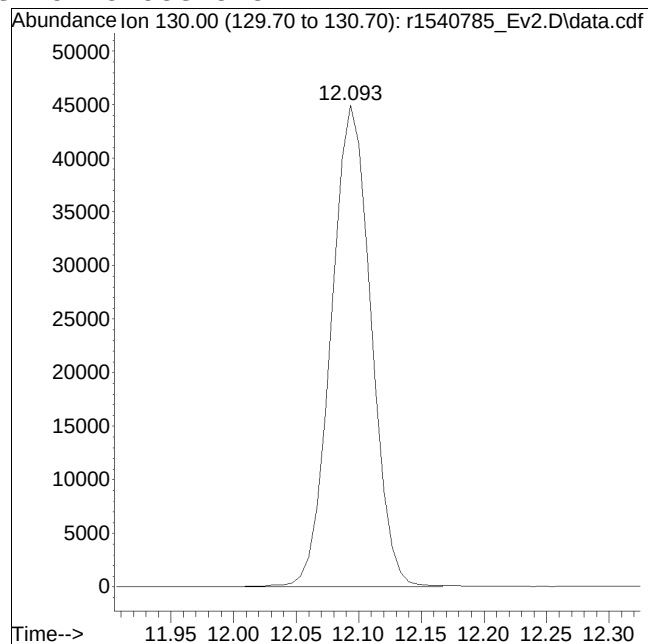
Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1540785_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:1: 2 Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 11/21/2023 10:09 am

Compound #44: trichloroethene



Original Peak Response = 85

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

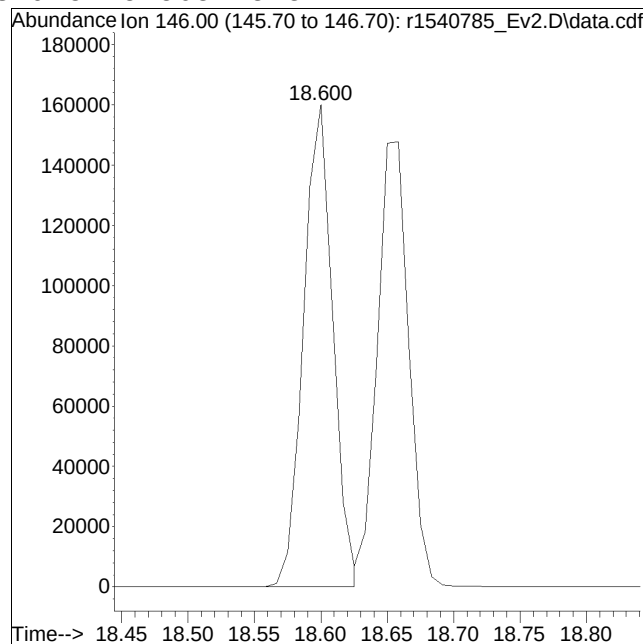
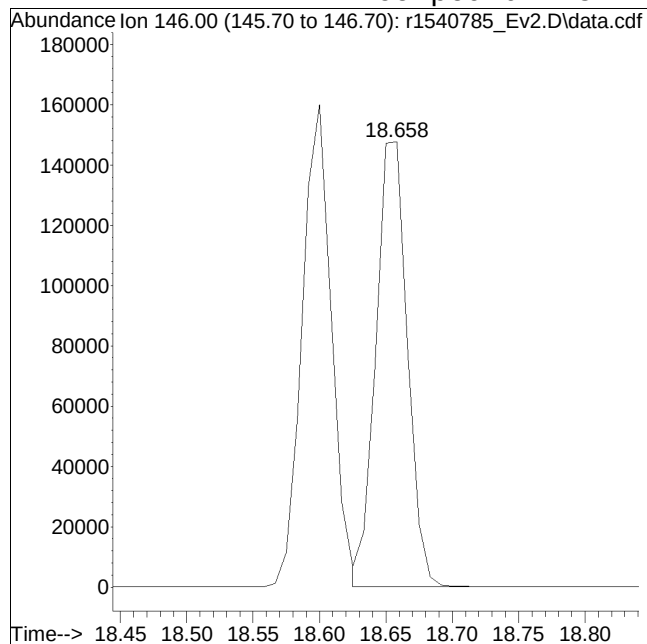


Manual Peak Response = 99394 M6

Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1540785_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:1: 2 Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 11/21/2023 10:09 am

Compound #75: 1,3-dichlorobenzene



Original Peak Response = 243337

Manual Peak Response = 245549 M3

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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
 Data File : r1540786_Ev2.D
 Acq On : 21 Nov 2023 12:23 AM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD010
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:13:58 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 10:12:19 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.067	49	211109	10.000	ppbV	0.00
Standard Area = 207652			Recovery =	101.66%		
33) 1,4-difluorobenzene	11.287	114	608786	10.000	ppbV	0.00
Standard Area = 601845			Recovery =	101.15%		
51) chlorobenzene-D5	16.008	54	102664	10.000	ppbV	0.00
Standard Area = 99919			Recovery =	102.75%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.933	65	224310	8.740	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	87.40%		
53) toluene-D8	14.133	98	730928	8.906	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	89.06%		
67) bromofluorobenzene	17.383	95	481139	8.961	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	89.61%		
Target Compounds						
					Qvalue	
2) propylene	3.916	41	105912M6	7.634	ppbV	
3) dichlorodifluoromethane	3.994	85	245029	11.625	ppbV	100
4) chloromethane	4.156	50	92277	6.824	ppbV	99
5) Freon-114	4.264	85	246402	9.463	ppbV	97
6) vinyl chloride	4.384	62	134721	10.295	ppbV	99
7) 1,3-butadiene	4.528	54	89679	8.605	ppbV	96
8) bromomethane	4.810	94	112371	10.919	ppbV	99
9) chloroethane	4.996	64	62577	9.713	ppbV	97
10) ethanol	5.128	31	420467	39.503	ppbV	99
11) vinyl bromide	5.380	106	95677	9.381	ppbV	99
12) acrolein	5.503	56	51142	9.281	ppbV	99
13) acetone	5.640	43	543796	31.691	ppbV	99
14) trichlorofluoromethane	5.837	101	182403	11.053	ppbV	100
15) isopropyl alcohol	5.923	45	344585	14.157	ppbV	100
16) acrylonitrile	6.157	53	106800	9.467	ppbV	96
17) 1,1-dichloroethene	6.528	61	208618	10.160	ppbV	100
18) tertiary butyl alcohol	6.588	59	237188	9.528	ppbV	98
19) methylene chloride	6.672	49	164290	9.598	ppbV	100
20) 3-chloropropene	6.798	41	173329	7.408	ppbV	100
21) carbon disulfide	6.978	76	382139	10.914	ppbV	99
22) Freon 113	6.972	101	231906	9.693	ppbV	99
23) trans-1,2-dichloroethene	7.717	61	196999	9.793	ppbV	99
24) 1,1-dichloroethane	7.942	63	249078	9.194	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
 Data File : r1540786_Ev2.D
 Acq On : 21 Nov 2023 12:23 AM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD010
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:13:58 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 10:12:19 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	8.008	73	307109	9.151	ppbV	99
26) vinyl acetate	8.117	43	249522	7.530	ppbV	100
27) 2-butanone	8.375	43	268549	7.357	ppbV	98
28) cis-1,2-dichloroethene	8.883	61	194814	10.027	ppbV	100
29) Ethyl Acetate	9.150	61	50462	9.640	ppbV	89
30) chloroform	9.225	83	264674	11.573	ppbV	99
31) Tetrahydrofuran	9.658	42	166742	7.227	ppbV	98
32) 1,2-dichloroethane	10.058	62	150590	9.672	ppbV	98
34) hexane	9.133	57	265116	9.122	ppbV	95
36) 1,1,1-trichloroethane	10.342	97	201320	9.340	ppbV	99
37) benzene	10.867	78	506700	9.381	ppbV	99
38) carbon tetrachloride	11.040	117	201952	11.522	ppbV	97
39) cyclohexane	11.187	56	287231	9.218	ppbV	99
40) Dibromomethane	11.780	93	144120	8.777	ppbV #	100
41) 1,2-dichloropropane	11.813	63	178734	7.650	ppbV	97
42) bromodichloromethane	12.040	83	258754	11.590	ppbV	98
43) 1,4-dioxane	12.080	88	113679	9.674	ppbV	99
44) trichloroethene	12.093	130	202148	9.547	ppbV	100
45) 2,2,4-trimethylpentane	12.140	57	871178	8.994	ppbV	99
46) heptane	12.453	43	290204	6.779	ppbV	99
47) cis-1,3-dichloropropene	13.108	75	242945	9.846	ppbV	99
48) 4-methyl-2-pentanone	13.142	43	331936	6.810	ppbV	98
49) trans-1,3-dichloropropene	13.733	75	196524	10.045	ppbV	100
50) 1,1,2-trichloroethane	13.933	97	179461	8.877	ppbV	100
52) toluene	14.242	91	587201	9.336	ppbV	99
54) 2-hexanone	14.517	43	311523	6.757	ppbV	98
55) dibromochloromethane	14.692	129	234397	11.869	ppbV	100
56) 1,2-dibromoethane	14.942	107	272563	9.921	ppbV	100
57) tetrachloroethene	15.400	166	223038	9.860	ppbV	98
58) 1,1,1,2-tetrachloroethane	16.033	131	188564	9.809	ppbV	99
59) chlorobenzene	16.050	112	467878	9.898	ppbV	100
60) ethylbenzene	16.400	91	761462	9.076	ppbV	99
61) m+p-xylene	16.567	91	1227579	18.646	ppbV	100
62) bromoform	16.633	173	196961	13.382	ppbV	98
63) styrene	16.883	104	491492	10.220	ppbV	99
64) 1,1,2,2-tetrachloroethane	16.983	83	483435	10.235	ppbV	99
65) o-xylene	16.983	91	621902	9.358	ppbV	100
66) 1,2,3-Trichloropropane	17.092	75	326062	9.219	ppbV	100
68) isopropylbenzene	17.500	105	744757	9.333	ppbV	99
69) Bromobenzene	17.575	77	435599	9.355	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
 Data File : r1540786_Ev2.D
 Acq On : 21 Nov 2023 12:23 AM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD010
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:13:58 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 10:12:19 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.058	105	803050	9.803	ppbV	98
71) 1,3,5-trimethylbenzene	18.117	105	714102	9.586	ppbV	99
72) tert-butylbenzene	18.467	119	752866	10.262	ppbV	99
73) 1,2,4-trimethylbenzene	18.467	105	725422	10.236	ppbV	97
74) Benzyl Chloride	18.583	91	440334	10.572	ppbV	100
75) 1,3-dichlorobenzene	18.600	146	502280	10.991	ppbV	99
76) 1,4-dichlorobenzene	18.658	146	506083	11.199	ppbV	100
77) sec-butylbenzene	18.683	105	986315	9.606	ppbV	99
78) p-isopropyltoluene	18.817	119	773257	9.535	ppbV	96
79) 1,2-dichlorobenzene	18.942	146	482018	10.875	ppbV	99
80) n-butylbenzene	19.158	91	829986	9.788	ppbV	99
81) 1,2-dibromo-3-chloropr...	19.308	75	168468	11.831	ppbV	95
82) 1,2,4-trichlorobenzene	20.442	180	404277	14.215	ppbV	98
83) naphthalene	20.558	128	1055244	10.205	ppbV	99
84) 1,2,3-trichlorobenzene	20.817	180	339966	13.732	ppbV	99
85) hexachlorobutadiene	20.883	225	328484	13.611	ppbV	98

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

Sub List : Default - All compounds listed3\11\1120SIM_I\r1540785_Ev2.D

Data Path : 0:\Forensics\Data\AirLab15\2023\11\1120SIM_I\

Data File : r1540786_Ev2.D

Acq On : 21 Nov 2023 12:23 AM

Operator : AIRLAB15:RAY

Sample : IT015-SIMSTD010

Misc : WG1855600

ALS Vial : 0 Sample Multiplier: 1

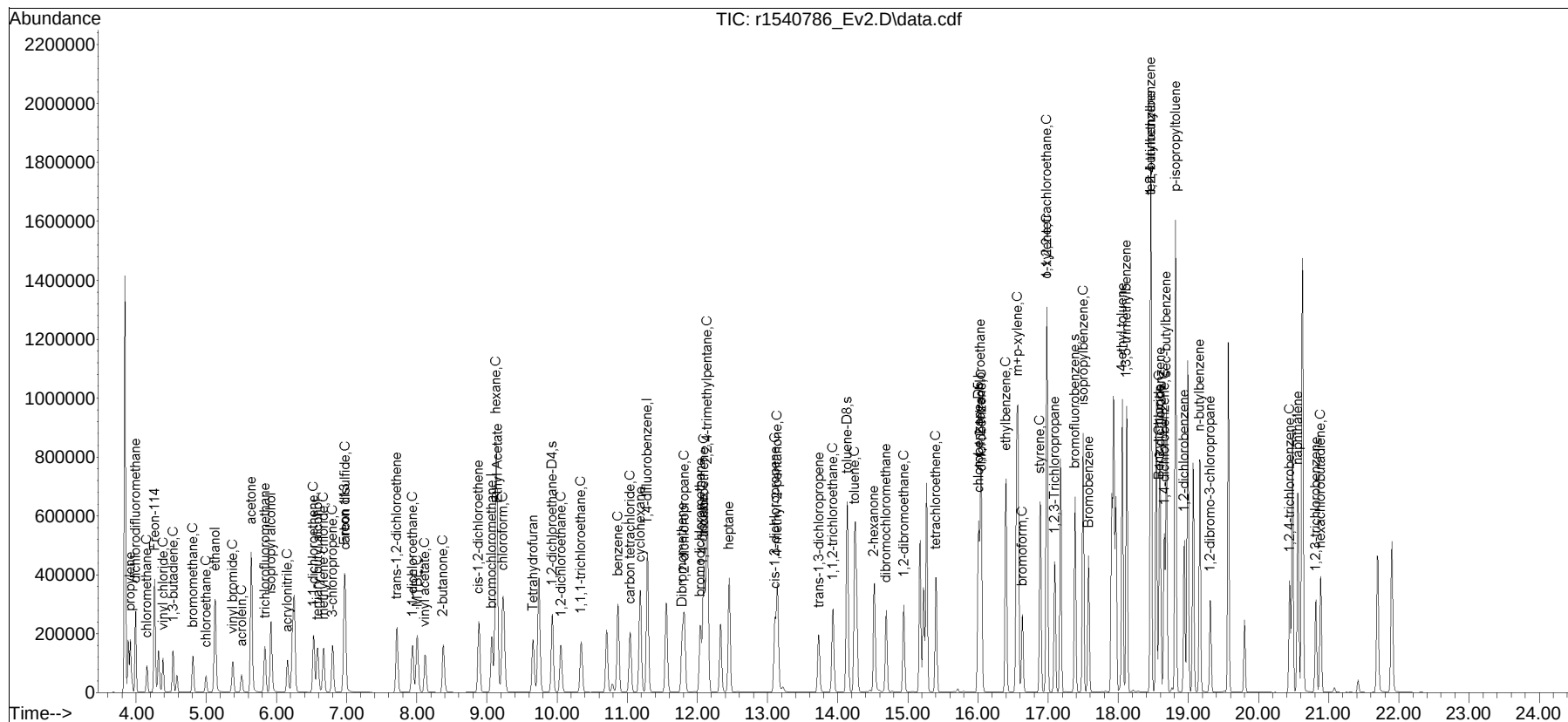
Quant Time: Nov 21 10:13:58 2023

Quant Method : 0:\Forensics\Data\AirLab15\2023\11\1120SIM_I\TSIM15_231120.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

QLast Update : Tue Nov 21 10:12:19 2023

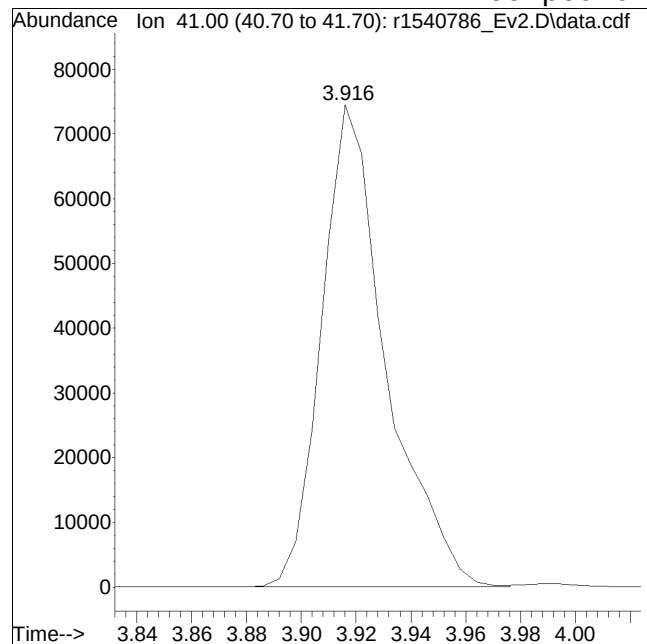
Response via : Initial Calibration



Manual Integration Report

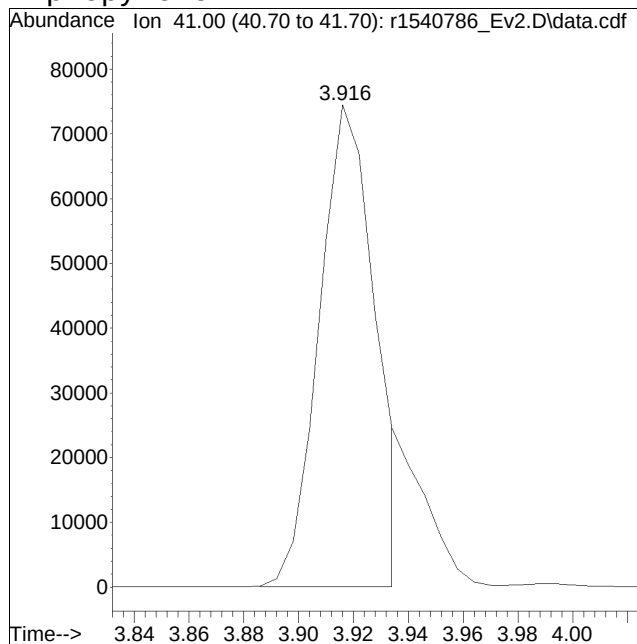
Data Path : 0:\Forensics\Data\AirLab15QMethod : TSIM15_231120.M
Data File : r1540786_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/21/2020 0:2: 3 Instrument :
Sample : IT015-SIMSTD010 Quant Date : 11/21/2023 10:13 am

Compound #2: propylene



Original Peak Response = 121880

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



Manual Peak Response = 105912 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
 Data File : r1540787_Ev2.D
 Acq On : 21 Nov 2023 1:00 AM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD020
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:14:13 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 10:12:19 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.075	49	210766	10.000	ppbV	0.00
Standard Area = 207652			Recovery =	101.50%		
33) 1,4-difluorobenzene	11.293	114	618298	10.000	ppbV	0.00
Standard Area = 601845			Recovery =	102.73%		
51) chlorobenzene-D5	16.000	54	101866	10.000	ppbV	0.00
Standard Area = 99919			Recovery =	101.95%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.933	65	221957	8.515	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	85.15%		
53) toluene-D8	14.133	98	743995	9.136	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	91.36%		
67) bromofluorobenzene	17.383	95	506182	9.501	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	95.01%		
Target Compounds						
					Qvalue	
2) propylene	3.916	41	203485M6	14.691	ppbV	
3) dichlorodifluoromethane	3.988	85	431927	20.526	ppbV	100
4) chloromethane	4.150	50	161995	11.999	ppbV	98
5) Freon-114	4.258	85	423374	16.287	ppbV	97
6) vinyl chloride	4.378	62	250236	19.154	ppbV	99
7) 1,3-butadiene	4.522	54	163602	15.724	ppbV #	81
8) bromomethane	4.810	94	207265	20.173	ppbV	97
9) chloroethane	4.996	64	121032	18.817	ppbV	93
10) ethanol	5.122	31	810398	76.261	ppbV	97
11) vinyl bromide	5.377	106	193833	19.037	ppbV	99
12) acrolein	5.503	56	99139	18.021	ppbV	98
13) acetone	5.640	43	1040211	60.720	ppbV	100
14) trichlorofluoromethane	5.837	101	340754	20.682	ppbV	98
15) isopropyl alcohol	5.920	45	684722	28.177	ppbV	100
16) acrylonitrile	6.160	53	213240	18.932	ppbV	97
17) 1,1-dichloroethene	6.528	61	406277	19.818	ppbV	98
18) tertiary butyl alcohol	6.582	59	509323	20.493	ppbV	96
19) methylene chloride	6.672	49	307669	18.005	ppbV	97
20) 3-chloropropene	6.804	41	353231	15.122	ppbV	98
21) carbon disulfide	6.978	76	774045	22.144	ppbV	98
22) Freon 113	6.972	101	450416	18.857	ppbV	99
23) trans-1,2-dichloroethene	7.717	61	406532	20.241	ppbV	99
24) 1,1-dichloroethane	7.942	63	488958	18.078	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
 Data File : r1540787_Ev2.D
 Acq On : 21 Nov 2023 1:00 AM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD020
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:14:13 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 10:12:19 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	8.008	73	615996	18.384	ppbV	99
26) vinyl acetate	8.117	43	527843	15.954	ppbV	99
27) 2-butanone	8.375	43	538405	14.773	ppbV	99
28) cis-1,2-dichloroethene	8.883	61	385213	19.859	ppbV	99
29) Ethyl Acetate	9.150	61	105483	20.183	ppbV	82
30) chloroform	9.225	83	498986	21.854	ppbV	100
31) Tetrahydrofuran	9.650	42	340014	14.762	ppbV	99
32) 1,2-dichloroethane	10.058	62	286589	18.436	ppbV	98
34) hexane	9.133	57	538283	18.236	ppbV	100
36) 1,1,1-trichloroethane	10.350	97	390953	17.859	ppbV	94
37) benzene	10.867	78	972124	17.721	ppbV	99
38) carbon tetrachloride	11.040	117	383972	21.569	ppbV	98
39) cyclohexane	11.187	56	590934	18.674	ppbV	99
40) Dibromomethane	11.787	93	295562	17.723	ppbV #	98
41) 1,2-dichloropropane	11.813	63	354204	14.926	ppbV	98
42) bromodichloromethane	12.047	83	521108	22.983	ppbV	97
43) 1,4-dioxane	12.080	88	241464	20.233	ppbV	97
44) trichloroethene	12.093	130	400394	18.619	ppbV	99
45) 2,2,4-trimethylpentane	12.140	57	1762069	17.913	ppbV	99
46) heptane	12.453	43	575945	13.246	ppbV	98
47) cis-1,3-dichloropropene	13.108	75	472228	18.844	ppbV	99
48) 4-methyl-2-pentanone	13.142	43	663225	13.396	ppbV	95
49) trans-1,3-dichloropropene	13.733	75	382851	19.268	ppbV	99
50) 1,1,2-trichloroethane	13.933	97	353861	17.234	ppbV	98
52) toluene	14.250	91	1156012	18.524	ppbV	100
54) 2-hexanone	14.517	43	621262	13.580	ppbV	98
55) dibromochloromethane	14.692	129	495936	25.309	ppbV	100
56) 1,2-dibromoethane	14.942	107	526708	19.321	ppbV	98
57) tetrachloroethene	15.400	166	442407	19.710	ppbV	97
58) 1,1,1,2-tetrachloroethane	16.033	131	388492	20.367	ppbV	99
59) chlorobenzene	16.050	112	901286	19.216	ppbV	99
60) ethylbenzene	16.400	91	1496230	17.974	ppbV	98
61) m+p-xylene	16.558	91	2382133	36.466	ppbV	99
62) bromoform	16.633	173	429174	29.388	ppbV	98
63) styrene	16.883	104	961187	20.143	ppbV	98
64) 1,1,2,2-tetrachloroethane	16.975	83	914209	19.507	ppbV	99
65) o-xylene	16.983	91	1197674	18.163	ppbV	99
66) 1,2,3-Trichloropropane	17.092	75	640860	18.262	ppbV	99
68) isopropylbenzene	17.500	105	1492707	18.852	ppbV	98
69) Bromobenzene	17.575	77	851261	18.425	ppbV	95

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
 Data File : r1540787_Ev2.D
 Acq On : 21 Nov 2023 1:00 AM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD020
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:14:13 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 10:12:19 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.058	105	1612257	19.835	ppbV	98
71) 1,3,5-trimethylbenzene	18.117	105	1352658	18.301	ppbV	98
72) tert-butylbenzene	18.467	119	1442818	19.821	ppbV	95
73) 1,2,4-trimethylbenzene	18.467	105	1357779	19.310	ppbV	98
74) Benzyl Chloride	18.583	91	960389	23.238	ppbV	98
75) 1,3-dichlorobenzene	18.600	146	963988	21.260	ppbV	99
76) 1,4-dichlorobenzene	18.658	146	969753	21.628	ppbV	98
77) sec-butylbenzene	18.683	105	1950057	19.142	ppbV	98
78) p-isopropyltoluene	18.817	119	1650360	20.510	ppbV	97
79) 1,2-dichlorobenzene	18.942	146	919253	20.902	ppbV	98
80) n-butylbenzene	19.167	91	1651750	19.632	ppbV #	89
81) 1,2-dibromo-3-chloropr...	19.308	75	329320	23.309	ppbV	91
82) 1,2,4-trichlorobenzene	20.442	180	753890	26.715	ppbV	97
83) naphthalene	20.558	128	2012167	19.611	ppbV	100
84) 1,2,3-trichlorobenzene	20.817	180	645451	26.275	ppbV	97
85) hexachlorobutadiene	20.883	225	589982	24.638	ppbV	96

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

Sub List : Default - All compounds listed3\11\1120SIM_I\r1540785_Ev2.D

Data Path : 0:\Forensics\Data\AirLab15\2023\11\1120SIM_I\

Data File : r1540787_Ev2.D

Acq On : 21 Nov 2023 1:00 AM

Operator : AIRLAB15:RAY

Sample : IT015-SIMSTD020

Misc : WG1855600

ALS Vial : 0 Sample Multiplier: 1

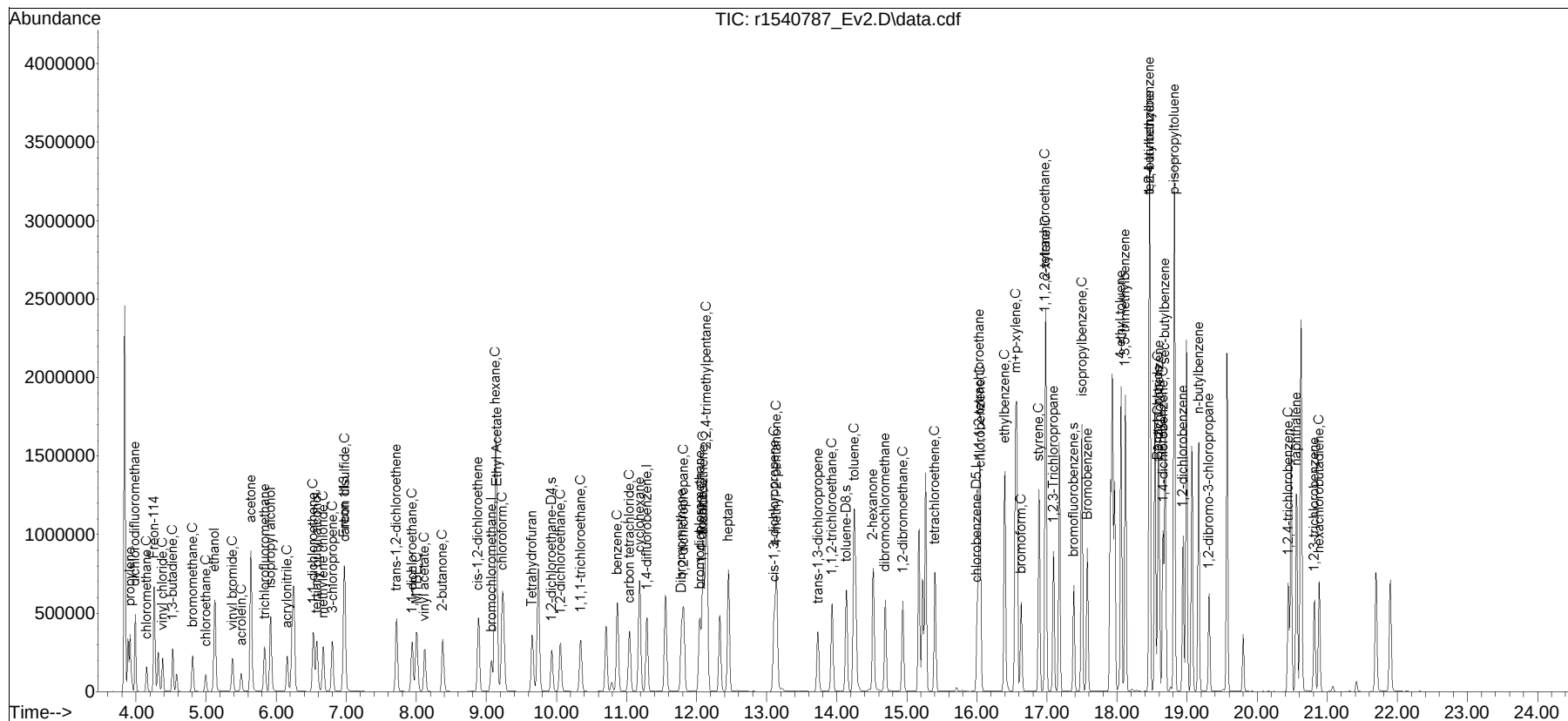
Quant Time: Nov 21 10:14:13 2023

Quant Method : 0:\Forensics\Data\AirLab15\2023\11\1120SIM_I\TSIM15_231120.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

QLast Update : Tue Nov 21 10:12:19 2023

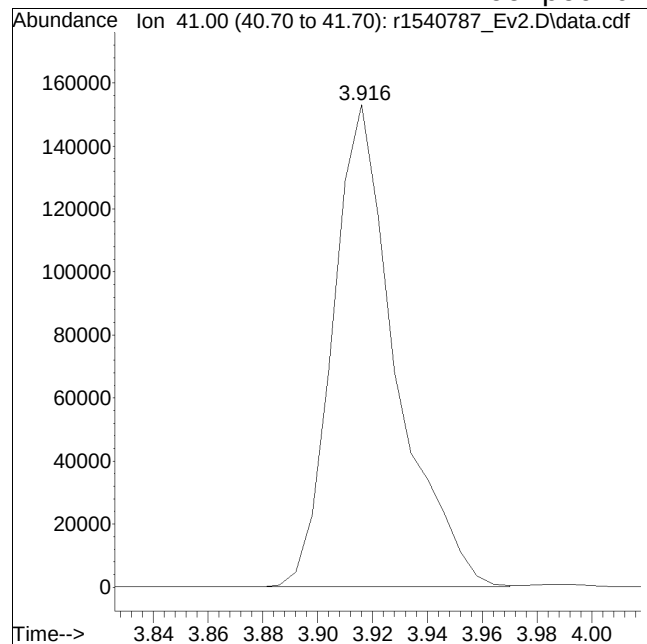
Response via : Initial Calibration



Manual Integration Report

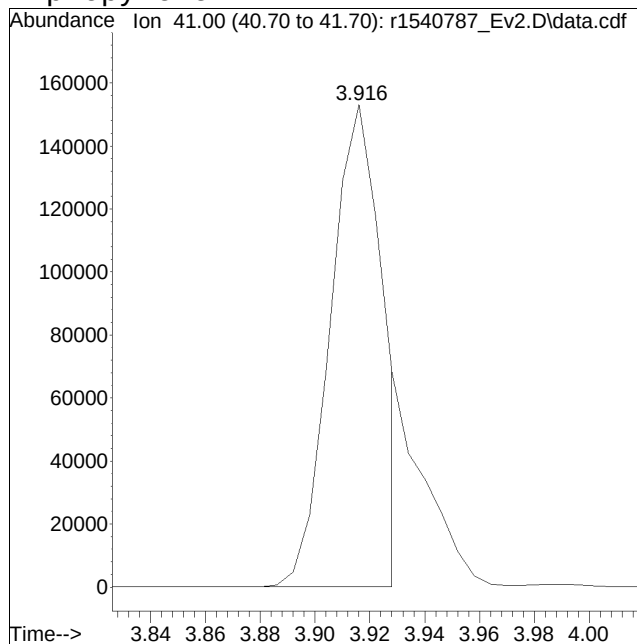
Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1540787_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/21/2020 0:1: 0 Instrument :
Sample : IT015-SIMSTD020 Quant Date : 11/21/2023 10:14 am

Compound #2: propylene



Original Peak Response = 245486

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



Manual Peak Response = 203485 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
 Data File : r1540788_Ev2.D
 Acq On : 21 Nov 2023 1:39 AM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD050
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:14:28 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 10:12:19 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.075	49	203255	10.000	ppbV	# 0.00
Standard Area = 207652			Recovery =		97.88%	
33) 1,4-difluorobenzene	11.293	114	638424	10.000	ppbV	0.00
Standard Area = 601845			Recovery =		106.08%	
51) chlorobenzene-D5	16.008	54	95611	10.000	ppbV	# 0.00
Standard Area = 99919			Recovery =		95.69%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.933	65	218110	8.104	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		81.04%	
53) toluene-D8	14.142	98	805075	10.533	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		105.33%	
67) bromofluorobenzene	17.383	95	542203	10.843	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		108.43%	
Target Compounds						
						Qvalue
2) propylene	3.916	41	523683M6	39.206	ppbV	
3) dichlorodifluoromethane	3.994	85	998775	49.217	ppbV	99
4) chloromethane	4.156	50	375377	28.833	ppbV	98
5) Freon-114	4.264	85	905209	36.109	ppbV	92
6) vinyl chloride	4.384	62	583943	46.349	ppbV	97
7) 1,3-butadiene	4.528	54	361311	36.010	ppbV	# 74
8) bromomethane	4.810	94	468993	47.333	ppbV	96
9) chloroethane	4.996	64	291035	46.920	ppbV	92
10) ethanol	5.134	31	1713390	167.193	ppbV	89
11) vinyl bromide	5.380	106	476724	48.550	ppbV	98
12) acrolein	5.503	56	223079	42.048	ppbV	97
13) acetone	5.643	43	2409375	145.839	ppbV	92
14) trichlorofluoromethane	5.837	101	785438	49.433	ppbV	100
15) isopropyl alcohol	5.927	45	1595635	68.087	ppbV	99
16) acrylonitrile	6.160	53	611508	56.298	ppbV	96
17) 1,1-dichloroethene	6.534	61	1008522	51.014	ppbV	92
18) tertiary butyl alcohol	6.582	59	1288417	53.757	ppbV	# 93
19) methylene chloride	6.672	49	708438	42.989	ppbV	92
20) 3-chloropropene	6.804	41	888096	39.425	ppbV	97
21) carbon disulfide	6.978	76	1812866	53.779	ppbV	97
22) Freon 113	6.972	101	1140684	49.521	ppbV	96
23) trans-1,2-dichloroethene	7.717	61	1027547	53.052	ppbV	97
24) 1,1-dichloroethane	7.942	63	1248433	47.863	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
 Data File : r1540788_Ev2.D
 Acq On : 21 Nov 2023 1:39 AM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD050
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:14:28 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 10:12:19 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	8.008	73	1483841	45.922	ppbV	97
26) vinyl acetate	8.125	43	1317213	41.284	ppbV	95
27) 2-butanone	8.375	43	1306830	37.182	ppbV	99
28) cis-1,2-dichloroethene	8.892	61	970496	51.881	ppbV	89
29) Ethyl Acetate	9.150	61	271589	53.886	ppbV	66
30) chloroform	9.233	83	1125548	51.118	ppbV	98
31) Tetrahydrofuran	9.650	42	847397	38.149	ppbV	97
32) 1,2-dichloroethane	10.058	62	680926	45.423	ppbV	96
34) hexane	9.133	57	1253902	41.142	ppbV	91
36) 1,1,1-trichloroethane	10.350	97	951750	42.106	ppbV	94
37) benzene	10.873	78	2302408	40.648	ppbV	98
38) carbon tetrachloride	11.047	117	890626	48.453	ppbV	98
39) cyclohexane	11.187	56	1427543	43.689	ppbV	99
40) Dibromomethane	11.787	93	750874	43.605	ppbV #	95
41) 1,2-dichloropropane	11.820	63	911185	37.187	ppbV #	95
42) bromodichloromethane	12.047	83	1195159	51.050	ppbV	97
43) 1,4-dioxane	12.073	88	604783	49.078	ppbV	98
44) trichloroethene	12.100	130	1020758	45.969	ppbV	98
45) 2,2,4-trimethylpentane	12.140	57	4182485	41.177	ppbV	98
46) heptane	12.453	43	1363494	30.371	ppbV	96
47) cis-1,3-dichloropropene	13.108	75	1143331	44.186	ppbV	99
48) 4-methyl-2-pentanone	13.142	43	1576827	30.846	ppbV #	90
49) trans-1,3-dichloropropene	13.733	75	924096	45.040	ppbV	98
50) 1,1,2-trichloroethane	13.933	97	931251	43.925	ppbV	90
52) toluene	14.250	91	2853841	48.721	ppbV	99
54) 2-hexanone	14.525	43	1504685	35.042	ppbV #	90
55) dibromochloromethane	14.692	129	1229681	66.860	ppbV	99
56) 1,2-dibromoethane	14.942	107	1304887	50.999	ppbV	98
57) tetrachloroethene	15.408	166	1088112	51.650	ppbV	96
58) 1,1,1,2-tetrachloroethane	16.033	131	947492	52.924	ppbV	99
59) chlorobenzene	16.050	112	2131101	48.410	ppbV	98
60) ethylbenzene	16.400	91	3688481	47.209	ppbV	99
61) m+p-xylene	16.567	91	5628403	91.798	ppbV	99
62) bromoform	16.633	173	1087171	79.316	ppbV	98
63) styrene	16.892	104	2379867	53.137	ppbV	93
64) 1,1,2,2-tetrachloroethane	16.983	83	1989228	45.222	ppbV	98
65) o-xylene	16.983	91	2693978	43.528	ppbV	96
66) 1,2,3-Trichloropropane	17.092	75	1490721	45.259	ppbV	98
68) isopropylbenzene	17.500	105	3542611	47.668	ppbV	97
69) Bromobenzene	17.575	77	1958018	45.152	ppbV	89

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
 Data File : r1540788_Ev2.D
 Acq On : 21 Nov 2023 1:39 AM
 Operator : AIRLAB15:RAY
 Sample : IT015-SIMSTD050
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:14:28 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 10:12:19 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
 Sub List : Default - All compounds listed

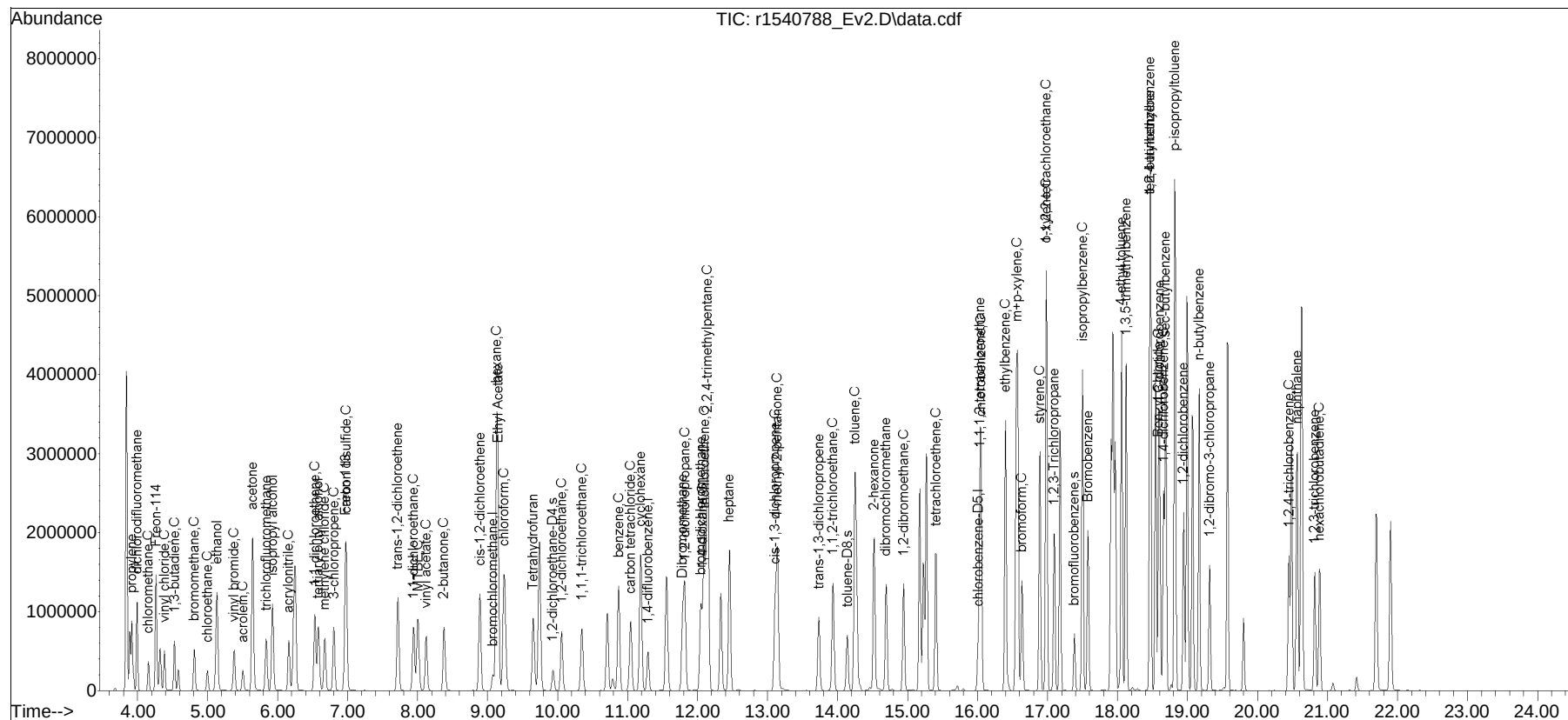
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.058	105	3829447	50.195	ppbV	98
71) 1,3,5-trimethylbenzene	18.125	105	3219687	46.411	ppbV	95
72) tert-butylbenzene	18.467	119	3097932	45.343	ppbV	93
73) 1,2,4-trimethylbenzene	18.467	105	2974443	45.069	ppbV	96
74) Benzyl Chloride	18.583	91	2435016	62.772	ppbV	98
75) 1,3-dichlorobenzene	18.600	146	2345522	55.113	ppbV	97
76) 1,4-dichlorobenzene	18.658	146	2301677	54.691	ppbV	98
77) sec-butylbenzene	18.683	105	4537277	47.452	ppbV	96
78) p-isopropyltoluene	18.817	119	3416279	45.233	ppbV	96
79) 1,2-dichlorobenzene	18.942	146	2213629	53.626	ppbV	98
80) n-butylbenzene	19.167	91	3830360	48.505	ppbV #	85
81) 1,2-dibromo-3-chloropr...	19.317	75	807396	60.884	ppbV	88
82) 1,2,4-trichlorobenzene	20.450	180	1920926	72.524	ppbV	96
83) naphthalene	20.567	128	4957467	51.478	ppbV	100
84) 1,2,3-trichlorobenzene	20.817	180	1679216	72.831	ppbV	98
85) hexachlorobutadiene	20.883	225	1416820	63.039	ppbV	93

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

Sub List : Default - All compounds listed3\11\1120SIM_I\r1540785_Ev2.D

Data Path : 0:\Forensics\Data\AirLab15\2023\11\1120SIM_I\
Data File : r1540788_Ev2.D
Acq On : 21 Nov 2023 1:39 AM
Operator : AIRLAB15:RAY
Sample : IT015-SIMSTD050
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

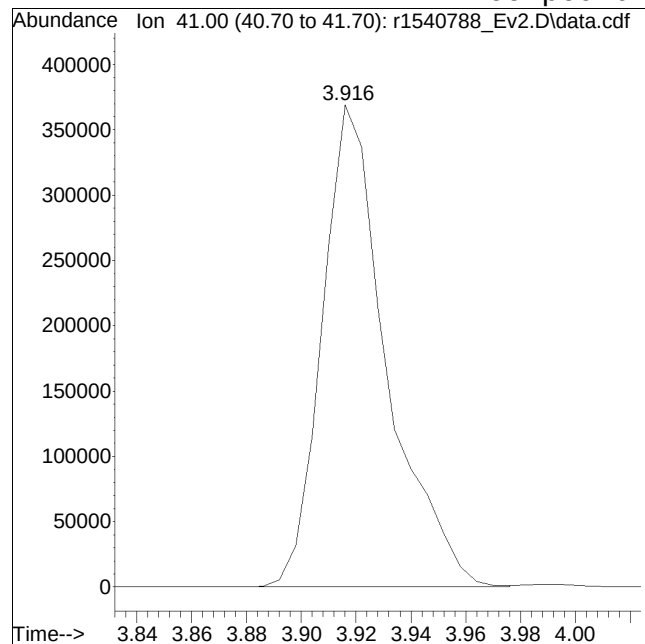
Quant Time: Nov 21 10:14:28 2023
Quant Method : 0:\Forensics\Data\AirLab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration



Manual Integration Report

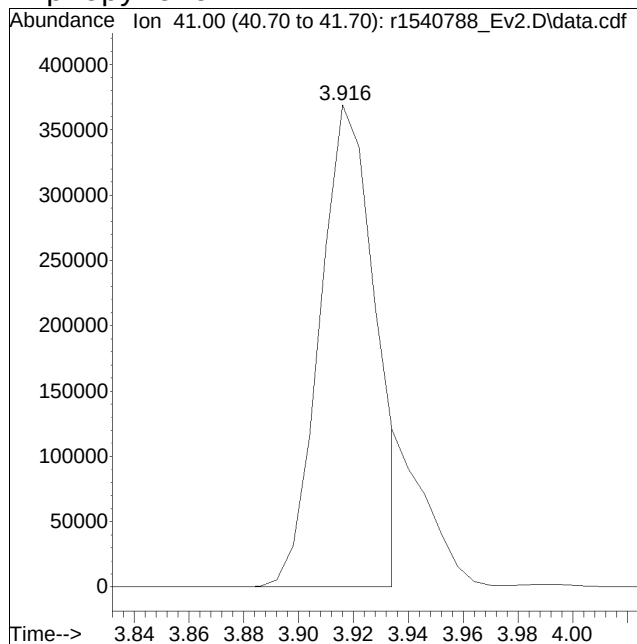
Data Path : 0:\Forensics\Data\AirLab15QMethod : TSIM15_231120.M
Data File : r1540788_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/21/2020 0:1: 9 Instrument :
Sample : IT015-SIMSTD050 Quant Date : 11/21/2023 10:14 am

Compound #2: propylene



Original Peak Response = 604113

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



Manual Peak Response = 523683 M6

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
 Data File : r1540794_Ev2.D
 Acq On : 21 Nov 2023 5:20 PM
 Operator : AIRLAB15:RAY
 Sample : CT015-SIMSTD5.0
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 22 08:51:10 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 16:16:05 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	bromochloromethane	1.000	1.000	0.0	84	0.00
2	propylene	0.539	0.648	-20.2	110	0.00
3	dichlorodifluoromethane	1.189	1.036	12.9	70	0.00
4 C	chloromethane	0.448	0.381	15.0	68	0.00
5	Freon-114	1.201	1.151	4.2	77	0.00
6 C	vinyl chloride	0.638	0.607	4.9	80	0.00
7 C	1,3-butadiene	0.427	0.392	8.2	74	0.00
8 C	bromomethane	0.547	0.508	7.1	79	0.00
9 C	chloroethane	0.300	0.322	-7.3	91	0.00
10	ethanol	0.414	0.364	12.1	69	0.00
11 C	vinyl bromide	0.469	0.507	-8.1	94	0.00
12 C	acrolein	0.252	0.206	18.3	72	0.00
13	acetone	0.543	0.614	-13.1	97	0.00
14	trichlorofluoromethane	0.881	0.856	2.8	81	0.00
15	isopropyl alcohol	0.695	0.674	3.0	86	0.00
16 C	acrylonitrile	0.520	0.382	26.5	57#	0.00
17 C	1,1-dichloroethene	0.980	1.123	-14.6	98	0.00
18	tertiary butyl alcohol	1.160	1.311	-13.0	101	0.00
19 C	methylene chloride	0.784	0.781	0.4	83	0.00
20 C	3-chloropropene	0.839	1.033	-23.1	106	0.00
21 C	carbon disulfide	1.842	1.916	-4.0	89	0.00
22	Freon 113	1.138	1.356	-19.2	102	0.00
23	trans-1,2-dichloroethene	0.943	1.107	-17.4	100	0.00
24 C	1,1-dichloroethane	1.216	1.402	-15.3	99	0.00
25 C	MTBE	1.507	1.645	-9.2	94	0.00
26 C	vinyl acetate	1.208	1.189	1.6	89	0.00
27 C	2-butanone	1.304	1.414	-8.4	94	0.00
28	cis-1,2-dichloroethene	0.936	1.076	-15.0	98	0.00
29	Ethyl Acetate	0.245	0.311	-26.9	111	0.00
30 C	chloroform	1.286	1.249	2.9	82	0.00
31	Tetrahydrofuran	0.810	0.901	-11.2	96	0.00
32 C	1,2-dichloroethane	0.733	0.728	0.7	84	0.00
33 I	1,4-difluorobenzene	1.000	1.000	0.0	97	0.01
34 C	hexane	0.443	0.444	-0.2	99	0.00
35 s	1,2-dichloroethane-D4	0.362	0.341	5.8	90	0.00
36 C	1,1,1-trichloroethane	0.328	0.303	7.6	90	0.00
37 C	benzene	0.832	0.740	11.1	86	0.01
38 C	carbon tetrachloride	0.310	0.271	12.6	81	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
 Data File : r1540794_Ev2.D
 Acq On : 21 Nov 2023 5:20 PM
 Operator : AIRLAB15:RAY
 Sample : CT015-SIMSTD5.0
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 22 08:51:10 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 16:16:05 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39	cyclohexane	0.479	0.477	0.4	98	0.00
40	Dibromomethane	0.249	0.240	3.6	99	0.01
41 C	1,2-dichloropropane	0.301	0.304	-1.0	101	0.00
42	bromodichloromethane	0.407	0.385	5.4	89	0.00
43 C	1,4-dioxane	0.186	0.194	-4.3	104	0.00
44 C	trichloroethene	0.334	0.342	-2.4	100	0.00
45 C	2,2,4-trimethylpentane	1.476	1.502	-1.8	100	0.00
46	heptane	0.482	0.472	2.1	96	0.00
47 C	cis-1,3-dichloropropene	0.361	0.357	1.1	88	0.00
48 C	4-methyl-2-pentanone	0.540	0.530	1.9	94	0.00
49	trans-1,3-dichloropropene	0.279	0.266	4.7	83	0.00
50 C	1,1,2-trichloroethane	0.296	0.313	-5.7	104	0.00
51 I	chlorobenzene-D5	1.000	1.000	0.0	85	0.00
52 C	toluene	5.814	6.731	-15.8	99	0.00
53 s	toluene-D8	7.329	8.864	-20.9	106	0.00
54	2-hexanone	2.999	3.286	-9.6	91	0.00
55	dibromochloromethane	2.177	2.803	-28.8	107	0.00
56 C	1,2-dibromoethane	2.560	2.959	-15.6	93	0.00
57 C	tetrachloroethene	2.244	2.539	-13.1	96	0.00
58	1,1,1,2-tetrachloroethane	1.846	2.113	-14.5	98	0.00
59 C	chlorobenzene	4.619	5.058	-9.5	92	0.00
60 C	ethylbenzene	7.326	8.657	-18.2	98	0.00
61 C	m+p-xylene	5.811	6.931	-19.3	97	0.00
62 C	bromoform	1.730	2.392	-38.3#	112	0.00
63 C	styrene	4.484	5.488	-22.4	97	0.00
64 C	1,1,2,2-tetrachloroethane	4.502	5.125	-13.8	92	0.00
65 C	o-xylene	5.909	7.105	-20.2	98	0.00
66	1,2,3-Trichloropropane	3.234	3.295	-1.9	86	0.00
67 s	bromofluorobenzene	4.839	5.801	-19.9	108	0.00
68 C	isopropylbenzene	7.448	8.526	-14.5	97	0.00
69	Bromobenzene	4.285	4.442	-3.7	87	0.00
70	4-ethyl toluene	7.648	9.174	-20.0	97	0.00
71	1,3,5-trimethylbenzene	6.693	7.749	-15.8	82	0.00
72	tert-butylbenzene	7.168	8.001	-11.6	91	0.00
73	1,2,4-trimethylbenzene	6.579	7.827	-19.0	92	0.00
74 C	Benzyl Chloride	3.612	4.526	-25.3	99	0.00
75	1,3-dichlorobenzene	4.557	5.506	-20.8	95	0.00
76 C	1,4-dichlorobenzene	4.477	5.518	-23.3	96	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
 Data File : r1540794_Ev2.D
 Acq On : 21 Nov 2023 5:20 PM
 Operator : AIRLAB15:RAY
 Sample : CT015-SIMSTD5.0
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 22 08:51:10 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 16:16:05 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77	sec-butylbenzene	9.585	10.902	-13.7	94	0.02
78	p-isopropyltoluene	8.142	9.189	-12.9	91	0.02
79	1,2-dichlorobenzene	4.275	5.242	-22.6	96	0.02
80	n-butylbenzene	7.692	9.421	-22.5	100	0.03
81	1,2-dibromo-3-chloropropane	1.408	1.668	-18.5	87	0.04
82 C	1,2,4-trichlorobenzene	2.988	3.931	-31.6#	96	0.07
83	naphthalene	8.258	10.754	-30.2#	100	0.07
84	1,2,3-trichlorobenzene	2.636	3.584	-36.0#	106	0.06
85 C	hexachlorobutadiene	2.627	3.170	-20.7	91	0.07

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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
 Data File : r1540794_Ev2.D
 Acq On : 21 Nov 2023 5:20 PM
 Operator : AIRLAB15:RAY
 Sample : CT015-SIMSTD5.0
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 22 08:51:10 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 16:16:05 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.075	49	173794	10.000	ppbV	# 0.00
Standard Area = 207652			Recovery =		83.69%	
33) 1,4-difluorobenzene	11.300	114	584257	10.000	ppbV	0.01
Standard Area = 601845			Recovery =		97.08%	
51) chlorobenzene-D5	16.008	54	84508	10.000	ppbV	# 0.00
Standard Area = 99919			Recovery =		84.58%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.942	65	198998	9.410	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		94.10%	
53) toluene-D8	14.142	98	749046	12.093	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		120.93%	
67) bromofluorobenzene	17.383	95	490256	11.988	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		119.88%	
Target Compounds						
					Qvalue	
2) propylene	3.916	41	56335M6	6.011	ppbV	
3) dichlorodifluoromethane	3.994	85	90020	4.357	ppbV	100
4) chloromethane	4.156	50	33090	4.246	ppbV	98
5) Freon-114	4.264	85	100005	4.793	ppbV	96
6) vinyl chloride	4.384	62	52759	4.758	ppbV	97
7) 1,3-butadiene	4.528	54	34078	4.597	ppbV	# 66
8) bromomethane	4.810	94	44130	4.643	ppbV	95
9) chloroethane	5.002	64	27941	5.355	ppbV	92
10) ethanol	5.128	31	158357	22.005	ppbV	87
11) vinyl bromide	5.380	106	44019	5.402	ppbV	97
12) acrolein	5.510	56	17893	4.078	ppbV	96
13) acetone	5.647	43	266714	28.267	ppbV	90
14) trichlorofluoromethane	5.840	101	74360	4.858	ppbV	100
15) isopropyl alcohol	5.927	45	146506	12.128	ppbV	99
16) acrylonitrile	6.163	53	33182	3.669	ppbV	96
17) 1,1-dichloroethene	6.534	61	97594	5.732	ppbV	94
18) tertiary butyl alcohol	6.594	59	113894	5.647	ppbV	# 94
19) methylene chloride	6.678	49	67892	4.982	ppbV	89
20) 3-chloropropene	6.804	41	89779	6.160	ppbV	97
21) carbon disulfide	6.984	76	166511	5.202	ppbV	98
22) Freon 113	6.978	101	117809	5.957	ppbV	95
23) trans-1,2-dichloroethene	7.725	61	96203	5.872	ppbV	94
24) 1,1-dichloroethane	7.942	63	121859	5.764	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
 Data File : r1540794_Ev2.D
 Acq On : 21 Nov 2023 5:20 PM
 Operator : AIRLAB15:RAY
 Sample : CT015-SIMSTD5.0
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 22 08:51:10 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 16:16:05 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	8.017	73	142953	5.456	ppbV	97
26) vinyl acetate	8.125	43	103338	4.922	ppbV	99
27) 2-butanone	8.392	43	122848	5.419	ppbV	97
28) cis-1,2-dichloroethene	8.892	61	93532	5.752	ppbV	94
29) Ethyl Acetate	9.158	61	26989	6.345	ppbV	62
30) chloroform	9.233	83	108519	4.856	ppbV	98
31) Tetrahydrofuran	9.667	42	78295	5.562	ppbV	99
32) 1,2-dichloroethane	10.058	62	63260	4.963	ppbV	96
34) hexane	9.142	57	129620	5.005	ppbV	90
36) 1,1,1-trichloroethane	10.350	97	88557	4.623	ppbV	98
37) benzene	10.880	78	216300	4.447	ppbV	95
38) carbon tetrachloride	11.047	117	79263	4.377	ppbV	97
39) cyclohexane	11.193	56	139326	4.976	ppbV	98
40) Dibromomethane	11.793	93	70189	4.821	ppbV #	96
41) 1,2-dichloropropane	11.820	63	88890	5.056	ppbV	96
42) bromodichloromethane	12.047	83	112574	4.729	ppbV	97
43) 1,4-dioxane	12.093	88	56734	5.217	ppbV	98
44) trichloroethene	12.100	130	99784	5.118	ppbV	98
45) 2,2,4-trimethylpentane	12.147	57	438795	5.088	ppbV	98
46) heptane	12.460	43	137842	4.896	ppbV	97
47) cis-1,3-dichloropropene	13.117	75	104298	4.946	ppbV	99
48) 4-methyl-2-pentanone	13.150	43	154925	4.909	ppbV #	93
49) trans-1,3-dichloropropene	13.733	75	77749	4.772	ppbV	95
50) 1,1,2-trichloroethane	13.942	97	91527	5.300	ppbV	88
52) toluene	14.250	91	284404	5.789	ppbV	99
54) 2-hexanone	14.533	43	138846	5.478	ppbV #	92
55) dibromochloromethane	14.700	129	118455	6.440	ppbV	99
56) 1,2-dibromoethane	14.950	107	125011	5.778	ppbV	100
57) tetrachloroethene	15.408	166	107283	5.657	ppbV	97
58) 1,1,1,2-tetrachloroethane	16.042	131	89297	5.725	ppbV	99
59) chlorobenzene	16.050	112	213731	5.476	ppbV	100
60) ethylbenzene	16.400	91	365782	5.908	ppbV	94
61) m+p-xylene	16.567	91	585717	11.927	ppbV	97
62) bromoform	16.642	173	101087	6.915	ppbV	98
63) styrene	16.892	104	231910	6.120	ppbV	93
64) 1,1,2,2-tetrachloroethane	16.983	83	216548	5.692	ppbV	97
65) o-xylene	16.983	91	300210	6.012	ppbV	94
66) 1,2,3-Trichloropropane	17.100	75	139220	5.094	ppbV	98
68) isopropylbenzene	17.500	105	360263	5.724	ppbV	97
69) Bromobenzene	17.575	77	187686	5.183	ppbV	92

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
 Data File : r1540794_Ev2.D
 Acq On : 21 Nov 2023 5:20 PM
 Operator : AIRLAB15:RAY
 Sample : CT015-SIMSTD5.0
 Misc : WG1855600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 22 08:51:10 2023
 Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 16:16:05 2023
 Response via : Initial Calibration

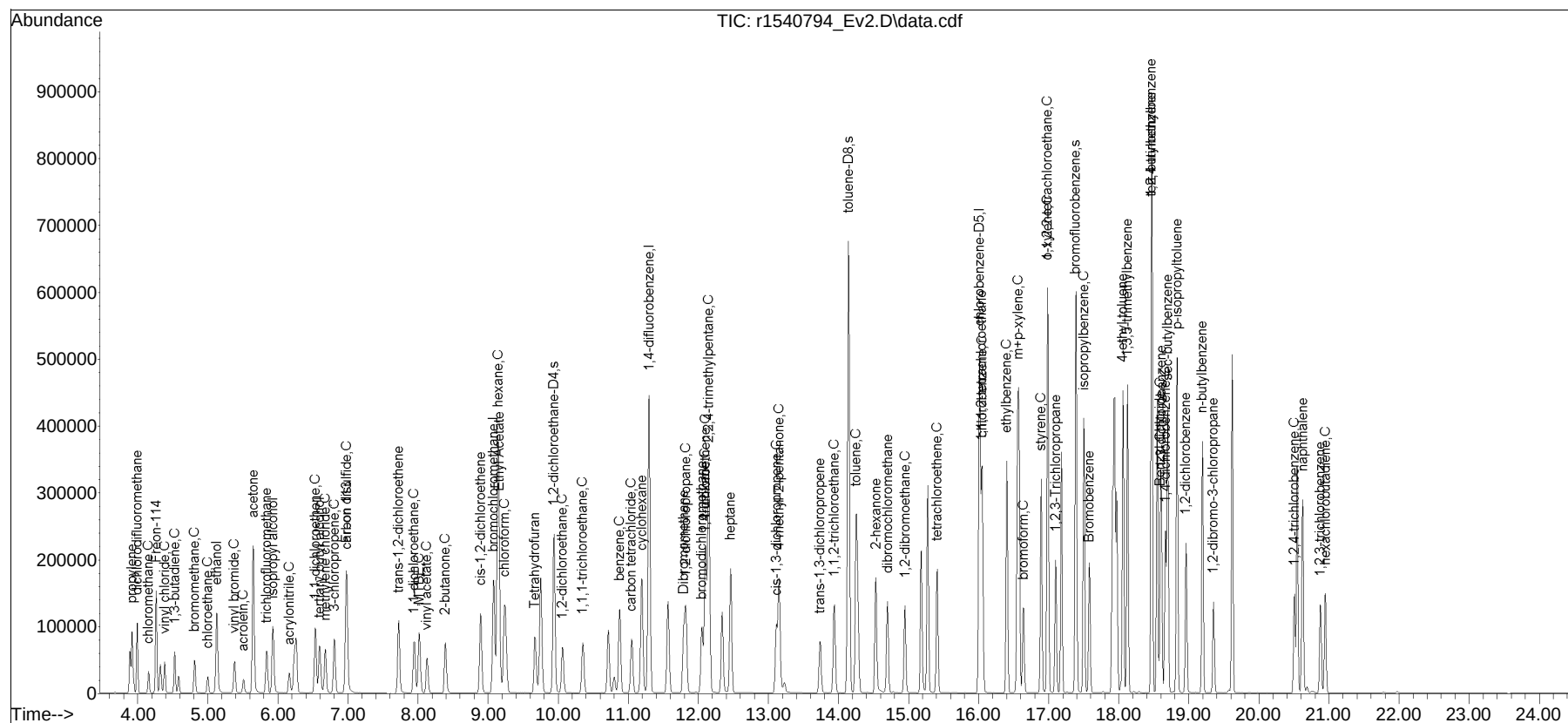
CCAL FILE : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.058	105	387623	5.998	ppbV	98
71) 1,3,5-trimethylbenzene	18.125	105	327437	5.789	ppbV	98
72) tert-butylbenzene	18.467	119	338076	5.581	ppbV	98
73) 1,2,4-trimethylbenzene	18.467	105	330728	5.949	ppbV	93
74) Benzyl Chloride	18.592	91	191241	6.265	ppbV	100
75) 1,3-dichlorobenzene	18.608	146	232655	6.041	ppbV	98
76) 1,4-dichlorobenzene	18.667	146	233156	6.162	ppbV	98
77) sec-butylbenzene	18.700	105	460650	5.687	ppbV	95
78) p-isopropyltoluene	18.833	119	388253	5.643	ppbV	97
79) 1,2-dichlorobenzene	18.958	146	221490	6.130	ppbV	98
80) n-butylbenzene	19.192	91	398084	6.124	ppbV	97
81) 1,2-dibromo-3-chloropr...	19.350	75	70468	5.923	ppbV	90
82) 1,2,4-trichlorobenzene	20.508	180	166094	6.577	ppbV	94
83) naphthalene	20.625	128	454389	6.511	ppbV	98
84) 1,2,3-trichlorobenzene	20.875	180	151422	6.798	ppbV	98
85) hexachlorobutadiene	20.950	225	133931	6.032	ppbV	95

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


```
Data Path   : O:\Forensics\Data\AirLab15\2023\11\1120SIM_I\
Data File  : r1540794_Ev2.D
Acq On     : 21 Nov 2023   5:20 PM
Operator   : AIRLAB15:RAY
Sample     : CT015-SIMSTD5.0
Misc       : WG1855600
ALS Vial   : 0    Sample Multiplier: 1
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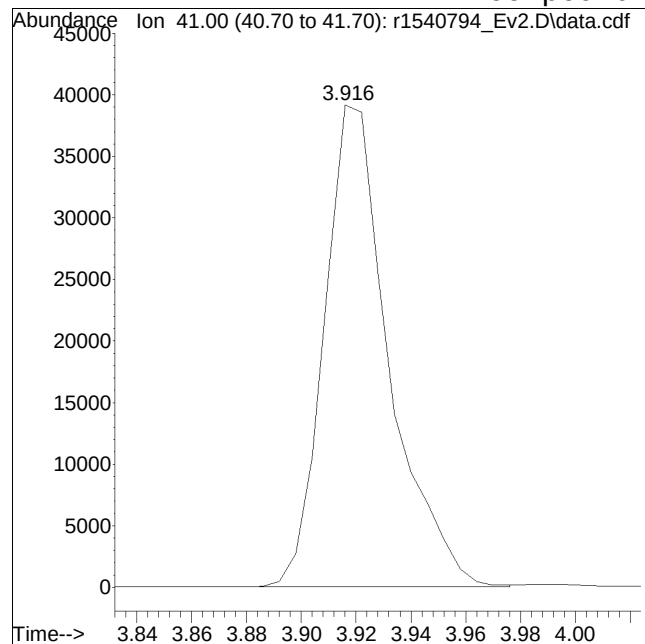
Quant Time: Nov 22 08:51:10 2023
Quant Method : 0:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:05 2023
Response via : Initial Calibration



Manual Integration Report

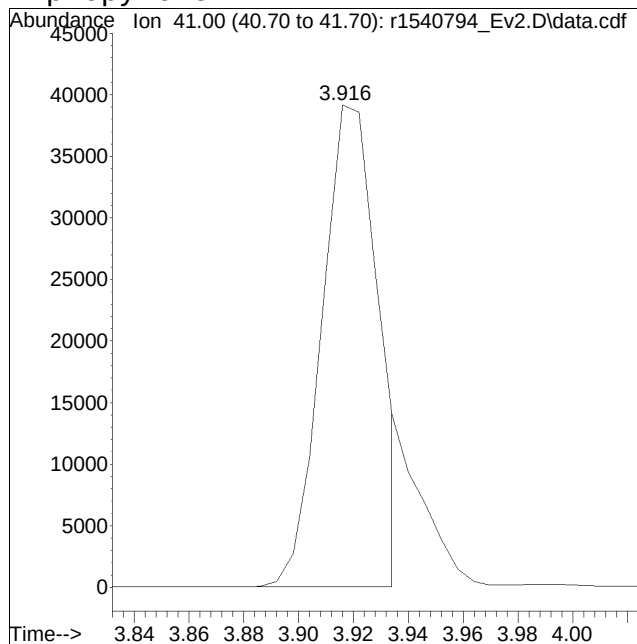
Data Path : 0:\Forensics\Data\AirLab150Method : TSIM15_231120.M
Data File : r1540794_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/21/2020 0:5: 0 Instrument :
Sample : CT015-SIMSTD5.0 Quant Date : 11/22/2023 8:51 am

Compound #2: propylene



Original Peak Response = 64320

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



Manual Peak Response = 56335 M6

Continuing Calibration

Calibration Verification Summary

Form 7

Air Volatiles

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRLAB15
 Lab File ID : R1542415_EV2
 Sample No : WG1880236-2
 Channel :

Lab Number : L2403288
 Project Number : BK-001
 Calibration Date : 01/31/24 12:57
 Init. Calib. Date(s) : 11/20/23 11/21/23
 Init. Calib. Times : 19:52 01:39

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	108	.06
propylene	0.539	0.58	-	-7.6	30	127	.04
dichlorodifluoromethane	1.189	1.096	-	7.8	30	96	.04
chloromethane	0.448	0.454	-	-1.3	30	105	.04
Freon-114	1.201	1.259	-	-4.8	30	109	.04
vinyl chloride	0.638	0.678	-	-6.3	30	115	.04
1,3-butadiene	0.427	0.475	-	-11.2	30	116	.04
bromomethane	0.547	0.534	-	2.4	30	107	.04
chloroethane	0.3	0.343	-	-14.3	30	125	.05
ethanol	0.414	0.473	-	-14.3	30	117	.05
vinyl bromide	0.469	0.505	-	-7.7	30	121	.05
acrolein	0.252	0.238	-	5.6	30	107	.05
acetone	0.543	0.707	-	-30.2*	30	144	.05
trichlorofluoromethane	0.881	1.015	-	-15.2	30	124	.05
isopropyl alcohol	0.695	0.729	-	-4.9	30	120	.05
acrylonitrile	0.52	0.517	-	0.6	30	100	.05
1,1-dichloroethene	0.98	1.008	-	-2.9	30	114	.05
tertiary butyl alcohol	1.16	1.122	-	3.3	30	112	.05
methylene chloride	0.784	0.731	-	6.8	30	100	.05
3-chloropropene	0.839	0.917	-	-9.3	30	121	.05
carbon disulfide	1.842	1.623	-	11.9	30	97	.05
Freon 113	1.138	1.099	-	3.4	30	107	.05
trans-1,2-dichloroethene	0.943	0.946	-	-0.3	30	110	.05
1,1-dichloroethane	1.216	1.201	-	1.2	30	109	.05
MTBE	1.507	1.336	-	11.3	30	99	.06
vinyl acetate	1.208	1.069	-	11.5	30	104	.06
2-butanone	1.304	1.324	-	-1.5	30	113	.05
cis-1,2-dichloroethene	0.936	0.905	-	3.3	30	107	.05
Ethyl Acetate	0.245	0.255	-	-4.1	30	118	.05
chloroform	1.286	1.109	-	13.8	30	94	.05
Tetrahydrofuran	0.81	0.79	-	2.5	30	109	.06
1,2-dichloroethane	0.733	0.801	-	-9.3	30	120	.06
1,4-difluorobenzene	1	1	-	0	30	102	.05
hexane	0.443	0.491	-	-10.8	30	116	.05
1,1,1-trichloroethane	0.328	0.353	-	-7.6	30	110	.06
benzene	0.832	0.739	-	11.2	30	90	.05
carbon tetrachloride	0.31	0.314	-	-1.3	30	99	.05
cyclohexane	0.479	0.509	-	-6.3	30	110	.05
Dibromomethane	0.249	0.246	-	1.2	30	106	.05
1,2-dichloropropane	0.301	0.297	-	1.3	30	104	.05
bromodichloromethane	0.407	0.435	-	-6.9	30	106	.05
1,4-dioxane	0.186	0.185	-	0.5	30	104	.05
trichloroethene	0.334	0.308	-	7.8	30	95	.05

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Air Volatiles

Client : Reliance Environmental, Inc.
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRLAB15
 Lab File ID : R1542415_EV2
 Sample No : WG1880236-2
 Channel :

Lab Number : L2403288
 Project Number : BK-001
 Calibration Date : 01/31/24 12:57
 Init. Calib. Date(s) : 11/20/23 11/21/23
 Init. Calib. Times : 19:52 01:39

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
2,2,4-trimethylpentane	1.476	1.677	-	-13.6	30	117	.05
heptane	0.482	0.546	-	-13.3	30	117	.05
cis-1,3-dichloropropene	0.361	0.336	-	6.9	30	87	.05
4-methyl-2-pentanone	0.54	0.615	-	-13.9	30	115	.05
trans-1,3-dichloropropene	0.279	0.263	-	5.7	30	86	.05
1,1,2-trichloroethane	0.296	0.286	-	3.4	30	100	.04
chlorobenzene-D5	1	1	-	0	30	113	.04
toluene	5.814	4.976	-	14.4	30	98	.05
2-hexanone	2.999	2.974	-	0.8	30	111	.04
dibromochloromethane	2.177	2.291	-	-5.2	30	117	.04
1,2-dibromoethane	2.56	2.179	-	14.9	30	92	.04
tetrachloroethene	2.244	1.666	-	25.8	30	85	.04
1,1,1,2-tetrachloroethane	1.846	1.638	-	11.3	30	102	.03
chlorobenzene	4.619	3.661	-	20.7	30	89	.03
ethylbenzene	7.326	6.187	-	15.5	30	94	.03
m+p-xylene	5.811	5.195	-	10.6	30	97	.02
bromoform	1.73	1.713	-	1	30	108	.03
styrene	4.484	3.704	-	17.4	30	88	.04
1,1,2,2-tetrachloroethane	4.502	3.737	-	17	30	90	.04
o-xylene	5.909	5.327	-	9.8	30	99	.03
1,2,3-Trichloropropane	3.234	2.786	-	13.9	30	97	.03
isopropylbenzene	7.448	6.514	-	12.5	30	100	.03
Bromobenzene	4.285	3.615	-	15.6	30	95	.03
4-ethyl toluene	7.648	6.982	-	8.7	30	99	.03
1,3,5-trimethylbenzene	6.693	6.576	-	1.7	30	94	.03
tert-butylbenzene	7.168	5.909	-	17.6	30	90	.03
1,2,4-trimethylbenzene	6.579	5.883	-	10.6	30	92	.03
Benzyl Chloride	3.612	3.417	-	5.4	30	101	.03
1,3-dichlorobenzene	4.557	3.891	-	14.6	30	90	.03
1,4-dichlorobenzene	4.477	3.742	-	16.4	30	87	.03
sec-butylbenzene	9.585	8.396	-	12.4	30	97	.04
p-isopropyltoluene	8.142	6.691	-	17.8	30	89	.04
1,2-dichlorobenzene	4.275	3.521	-	17.6	30	87	.05
n-butylbenzene	7.692	7.146	-	7.1	30	102	.06
1,2-dibromo-3-chloropropan	1.408	1.468	-	-4.3	30	103	.07
1,2,4-trichlorobenzene	2.988	2.344	-	21.6	30	77	.1
naphthalene	8.258	7.627	-	7.6	30	95	.11
1,2,3-trichlorobenzene	2.636	2.306	-	12.5	30	91	.1
hexachlorobutadiene	2.627	2.173	-	17.3	30	84	.1

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\
 Data File : r1542415_Ev2.D
 Acq On : 31 Jan 2024 12:57 PM
 Operator : AIRLAB15:JMB
 Sample : WG1880236-2,3,250,250
 Misc : WG1880236,ICAL20577
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 31 13:36:02 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 16:16:05 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	bromochloromethane	1.000	1.000	0.0	108	0.06
2	propylene	0.539	0.580	-7.6	127	0.04
3	dichlorodifluoromethane	1.189	1.096	7.8	96	0.04
4 C	chloromethane	0.448	0.454	-1.3	105	0.04
5	Freon-114	1.201	1.259	-4.8	109	0.04
6 C	vinyl chloride	0.638	0.678	-6.3	115	0.04
7 C	1,3-butadiene	0.427	0.475	-11.2	116	0.04
8 C	bromomethane	0.547	0.534	2.4	107	0.04
9 C	chloroethane	0.300	0.343	-14.3	125	0.05
10	ethanol	0.414	0.473	-14.3	117	0.05
11 C	vinyl bromide	0.469	0.505	-7.7	121	0.05
12 C	acrolein	0.252	0.238	5.6	107	0.05
13	acetone	0.543	0.707	-30.2#	144#	0.05
14	trichlorofluoromethane	0.881	1.015	-15.2	124	0.05
15	isopropyl alcohol	0.695	0.729	-4.9	120	0.05
16 C	acrylonitrile	0.520	0.517	0.6	100	0.05
17 C	1,1-dichloroethene	0.980	1.008	-2.9	114	0.05
18	tertiary butyl alcohol	1.160	1.122	3.3	112	0.05
19 C	methylene chloride	0.784	0.731	6.8	100	0.05
20 C	3-chloropropene	0.839	0.917	-9.3	121	0.05
21 C	carbon disulfide	1.842	1.623	11.9	97	0.05
22	Freon 113	1.138	1.099	3.4	107	0.05
23	trans-1,2-dichloroethene	0.943	0.946	-0.3	110	0.05
24 C	1,1-dichloroethane	1.216	1.201	1.2	109	0.05
25 C	MTBE	1.507	1.336	11.3	99	0.06
26 C	vinyl acetate	1.208	1.069	11.5	104	0.06
27 C	2-butanone	1.304	1.324	-1.5	113	0.05
28	cis-1,2-dichloroethene	0.936	0.905	3.3	107	0.05
29	Ethyl Acetate	0.245	0.255	-4.1	118	0.05
30 C	chloroform	1.286	1.109	13.8	94	0.05
31	Tetrahydrofuran	0.810	0.790	2.5	109	0.06
32 C	1,2-dichloroethane	0.733	0.801	-9.3	120	0.06
33 I	1,4-difluorobenzene	1.000	1.000	0.0	102	0.05
34 C	hexane	0.443	0.491	-10.8	116	0.05
36 C	1,1,1-trichloroethane	0.328	0.353	-7.6	110	0.06
37 C	benzene	0.832	0.739	11.2	90	0.05
38 C	carbon tetrachloride	0.310	0.314	-1.3	99	0.05
39	cyclohexane	0.479	0.509	-6.3	110	0.05

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\
 Data File : r1542415_Ev2.D
 Acq On : 31 Jan 2024 12:57 PM
 Operator : AIRLAB15:JMB
 Sample : WG1880236-2,3,250,250
 Misc : WG1880236,ICAL20577
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 31 13:36:02 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 16:16:05 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40	Dibromomethane	0.249	0.246	1.2	106	0.05
41 C	1,2-dichloropropane	0.301	0.297	1.3	104	0.05
42	bromodichloromethane	0.407	0.435	-6.9	106	0.05
43 C	1,4-dioxane	0.186	0.185	0.5	104	0.05
44 C	trichloroethene	0.334	0.308	7.8	95	0.05
45 C	2,2,4-trimethylpentane	1.476	1.677	-13.6	117	0.05
46	heptane	0.482	0.546	-13.3	117	0.05
47 C	cis-1,3-dichloropropene	0.361	0.336	6.9	87	0.05
48 C	4-methyl-2-pentanone	0.540	0.615	-13.9	115	0.05
49	trans-1,3-dichloropropene	0.279	0.263	5.7	86	0.05
50 C	1,1,2-trichloroethane	0.296	0.286	3.4	100	0.04
51 I	chlorobenzene-D5	1.000	1.000	0.0	113	0.04
52 C	toluene	5.814	4.976	14.4	98	0.05
54	2-hexanone	2.999	2.974	0.8	111	0.04
55	dibromochloromethane	2.177	2.291	-5.2	117	0.04
56 C	1,2-dibromoethane	2.560	2.179	14.9	92	0.04
57 C	tetrachloroethene	2.244	1.666	25.8	85	0.04
58	1,1,1,2-tetrachloroethane	1.846	1.638	11.3	102	0.03
59 C	chlorobenzene	4.619	3.661	20.7	89	0.03
60 C	ethylbenzene	7.326	6.187	15.5	94	0.03
61 C	m+p-xylene	5.811	5.195	10.6	97	0.02
62 C	bromofom	1.730	1.713	1.0	108	0.03
63 C	styrene	4.484	3.704	17.4	88	0.04
64 C	1,1,2,2-tetrachloroethane	4.502	3.737	17.0	90	0.04
65 C	o-xylene	5.909	5.327	9.8	99	0.03
66	1,2,3-Trichloropropane	3.234	2.786	13.9	97	0.03
68 C	isopropylbenzene	7.448	6.514	12.5	100	0.03
69	Bromobenzene	4.285	3.615	15.6	95	0.03
70	4-ethyl toluene	7.648	6.982	8.7	99	0.03
71	1,3,5-trimethylbenzene	6.693	6.576	1.7	94	0.03
72	tert-butylbenzene	7.168	5.909	17.6	90	0.03
73	1,2,4-trimethylbenzene	6.579	5.883	10.6	92	0.03
74 C	Benzyl Chloride	3.612	3.417	5.4	101	0.03
75	1,3-dichlorobenzene	4.557	3.891	14.6	90	0.03
76 C	1,4-dichlorobenzene	4.477	3.742	16.4	87	0.03
77	sec-butylbenzene	9.585	8.396	12.4	97	0.04
78	p-isopropyltoluene	8.142	6.691	17.8	89	0.04
79	1,2-dichlorobenzene	4.275	3.521	17.6	87	0.05

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\
 Data File : r1542415_Ev2.D
 Acq On : 31 Jan 2024 12:57 PM
 Operator : AIRLAB15:JMB
 Sample : WG1880236-2,3,250,250
 Misc : WG1880236,ICAL20577
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 31 13:36:02 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 16:16:05 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
80	n-butylbenzene	7.692	7.146	7.1	102	0.06
81	1,2-dibromo-3-chloropropane	1.408	1.468	-4.3	103	0.07
82 C	1,2,4-trichlorobenzene	2.988	2.344	21.6	77	0.10
83	naphthalene	8.258	7.627	7.6	95	0.11
84	1,2,3-trichlorobenzene	2.636	2.306	12.5	91	0.10
85 C	hexachlorobutadiene	2.627	2.173	17.3	84	0.10

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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\
 Data File : r1542415_Ev2.D
 Acq On : 31 Jan 2024 12:57 PM
 Operator : AIRLAB15:JMB
 Sample : WG1880236-2,3,250,250
 Misc : WG1880236,ICAL20577
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 31 13:36:02 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 16:16:05 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\r1542415_Ev2.D
 Sub List : Default-LCS-AP2 - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.125	49	224563	10.000	ppbV	0.06
Standard Area = 224563			Recovery	=	100.00%	
33) 1,4-difluorobenzene	11.340	114	616226	10.000	ppbV	0.05
Standard Area = 616226			Recovery	=	100.00%	
51) chlorobenzene-D5	16.042	54	113391	10.000	ppbV	0.04
Standard Area = 113391			Recovery	=	100.00%	

System Monitoring Compounds

Target Compounds					Qvalue
2) propylene	3.952	41	65150M6	5.380	ppbV
3) dichlorodifluoromethane	4.030	85	123048	4.609	ppbV 100
4) chloromethane	4.192	50	51027	5.067	ppbV 97
5) Freon-114	4.300	85	141407	5.245	ppbV 97
6) vinyl chloride	4.426	62	76150	5.315	ppbV 97
7) 1,3-butadiene	4.570	54	53328	5.567	ppbV # 70
8) bromomethane	4.852	94	59969	4.883	ppbV 96
9) chloroethane	5.044	64	38474	5.707	ppbV 97
10) ethanol	5.176	31	265752	28.579	ppbV 90
11) vinyl bromide	5.427	106	56688	5.384	ppbV 98
12) acrolein	5.553	56	26703	4.709	ppbV 98
13) acetone	5.693	43	396929M4	32.557	ppbV
14) trichlorofluoromethane	5.883	101	113917	5.760	ppbV 100
15) isopropyl alcohol	5.980	45	204578	13.107	ppbV 97
16) acrylonitrile	6.207	53	58022	4.966	ppbV 98
17) 1,1-dichloroethene	6.582	61	113170	5.144	ppbV 95
18) tertiary butyl alcohol	6.648	59	126024	4.836	ppbV # 88
19) methylene chloride	6.720	49	82096	4.663	ppbV 91
20) 3-chloropropene	6.852	41	102925	5.465	ppbV 94
21) carbon disulfide	7.032	76	182229	4.406	ppbV 96
22) Freon 113	7.020	101	123409	4.830	ppbV 90
23) trans-1,2-dichloroethene	7.767	61	106239	5.018	ppbV 91
24) 1,1-dichloroethane	7.992	63	134853	4.937	ppbV 99
25) MTBE	8.067	73	150033	4.432	ppbV 98
26) vinyl acetate	8.175	43	120016	4.424	ppbV 97
27) 2-butanone	8.433	43	148668	5.075	ppbV 96
28) cis-1,2-dichloroethene	8.933	61	101654	4.839	ppbV 92
29) Ethyl Acetate	9.200	61	28633	5.210	ppbV 90
30) chloroform	9.275	83	124471	4.311	ppbV 98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\
 Data File : r1542415_Ev2.D
 Acq On : 31 Jan 2024 12:57 PM
 Operator : AIRLAB15:JMB
 Sample : WG1880236-2,3,250,250
 Misc : WG1880236,ICAL20577
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 31 13:36:02 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 16:16:05 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\r1542415_Ev2.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) Tetrahydrofuran	9.717	42	88726	4.878	ppbV	98
32) 1,2-dichloroethane	10.108	62	89889	5.458	ppbV	93
34) hexane	9.183	57	151436	5.545	ppbV	95
36) 1,1,1-trichloroethane	10.400	97	108725	5.381	ppbV	97
37) benzene	10.920	78	227797	4.440	ppbV	98
38) carbon tetrachloride	11.093	117	96841	5.070	ppbV	98
39) cyclohexane	11.233	56	156688	5.306	ppbV	87
40) Dibromomethane	11.833	93	75665	4.927	ppbV #	86
41) 1,2-dichloropropane	11.867	63	91523	4.935	ppbV	95
42) bromodichloromethane	12.093	83	134072	5.340	ppbV	97
43) 1,4-dioxane	12.140	88	57086	4.977	ppbV	89
44) trichloroethene	12.147	130	94808	4.611	ppbV	94
45) 2,2,4-trimethylpentane	12.187	57	516606	5.680	ppbV	97
46) heptane	12.500	43	168382	5.671	ppbV	98
47) cis-1,3-dichloropropene	13.158	75	103457	4.651	ppbV #	91
48) 4-methyl-2-pentanone	13.192	43	189382	5.689	ppbV	98
49) trans-1,3-dichloropropene	13.783	75	80916	4.709	ppbV	92
50) 1,1,2-trichloroethane	13.975	97	88098	4.837	ppbV #	91
52) toluene	14.292	91	282120	4.280	ppbV	98
54) 2-hexanone	14.567	43	168617	4.958	ppbV	97
55) dibromochloromethane	14.733	129	129905	5.263	ppbV	96
56) 1,2-dibromoethane	14.983	107	123560	4.256	ppbV	99
57) tetrachloroethene	15.442	166	94469	3.712	ppbV #	88
58) 1,1,1,2-tetrachloroethane	16.067	131	92845	4.436	ppbV	97
59) chlorobenzene	16.083	112	207539	3.963	ppbV	97
60) ethylbenzene	16.433	91	350779	4.223	ppbV	95
61) m+p-xylene	16.592	91	589036	8.939	ppbV	94
62) bromoform	16.667	173	97133	4.952	ppbV	99
63) styrene	16.925	104	210021	4.131	ppbV	97
64) 1,1,2,2-tetrachloroethane	17.017	83	211899	4.151	ppbV	98
65) o-xylene	17.017	91	301989	4.507	ppbV	95
66) 1,2,3-Trichloropropane	17.125	75	157957	4.307	ppbV #	96
68) isopropylbenzene	17.533	105	369300	4.373	ppbV	95
69) Bromobenzene	17.608	77	204933	4.217	ppbV	96
70) 4-ethyl toluene	18.092	105	395839	4.565	ppbV	96
71) 1,3,5-trimethylbenzene	18.150	105	372848	4.913	ppbV	95
72) tert-butylbenzene	18.492	119	334987	4.121	ppbV	100
73) 1,2,4-trimethylbenzene	18.500	105	333558	4.471	ppbV	93
74) Benzyl Chloride	18.617	91	193752	4.731	ppbV	92
75) 1,3-dichlorobenzene	18.633	146	220597	4.269	ppbV	94

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\
 Data File : r1542415_Ev2.D
 Acq On : 31 Jan 2024 12:57 PM
 Operator : AIRLAB15:JMB
 Sample : WG1880236-2,3,250,250
 Misc : WG1880236,ICAL20577
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 31 13:36:02 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 16:16:05 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\r1542415_Ev2.D
 Sub List : Default-LCS-AP2 - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76)	1,4-dichlorobenzene	18.692	146	212141M3	4.179	ppbV	
77)	sec-butylbenzene	18.725	105	476033	4.380	ppbV	98
78)	p-isopropyltoluene	18.858	119	379347	4.109	ppbV	96
79)	1,2-dichlorobenzene	18.992	146	199645	4.118	ppbV	99
80)	n-butylbenzene	19.217	91	405131	4.645	ppbV	97
81)	1,2-dibromo-3-chloropr...	19.375	75	83256	5.215	ppbV	84
82)	1,2,4-trichlorobenzene	20.542	180	132872	3.922	ppbV	94
83)	naphthalene	20.667	128	432420	4.618	ppbV	99
84)	1,2,3-trichlorobenzene	20.917	180	130752	4.375	ppbV	93
85)	hexachlorobutadiene	20.983	225	123224	4.136	ppbV	92

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

Sub List : Default-LCS-AP2 - All compounds listed1SIM\r1542415_Ev2.D

Data Path : 0:\Forensics\Data\AirLab15\2024\01\0131SIM\

Data File : r1542415_Ev2.D

Acq On : 31 Jan 2024 12:57 PM

Operator : AIRLAB15:JMB

Sample : WG1880236-2,3,250,250

Misc : WG1880236,ICAL20577

ALS Vial : 0 Sample Multiplier: 1

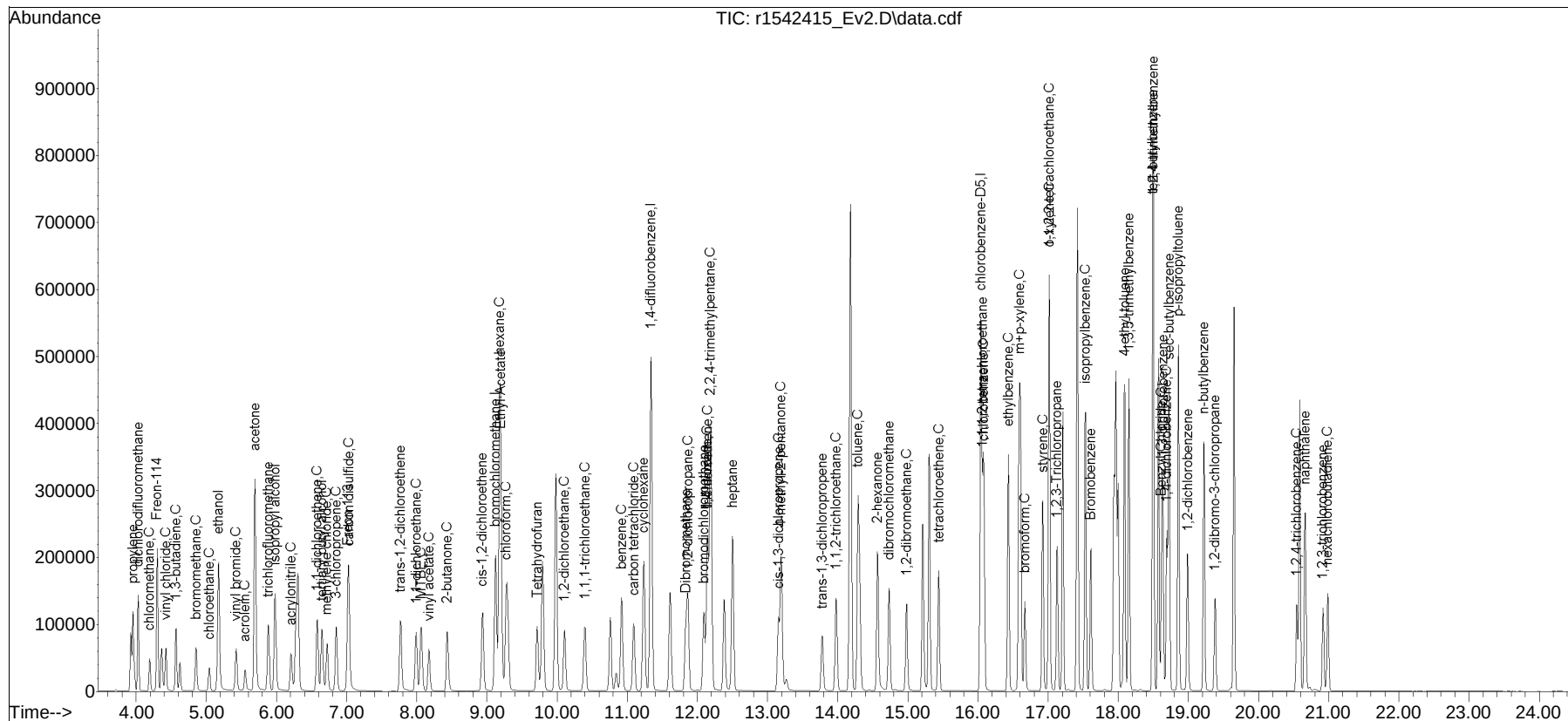
Quant Time: Jan 31 13:36:02 2024

Quant Method : 0:\Forensics\Data\AirLab15\2024\01\0131SIM\TSIM15_231120.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

QLast Update : Tue Nov 21 16:16:05 2023

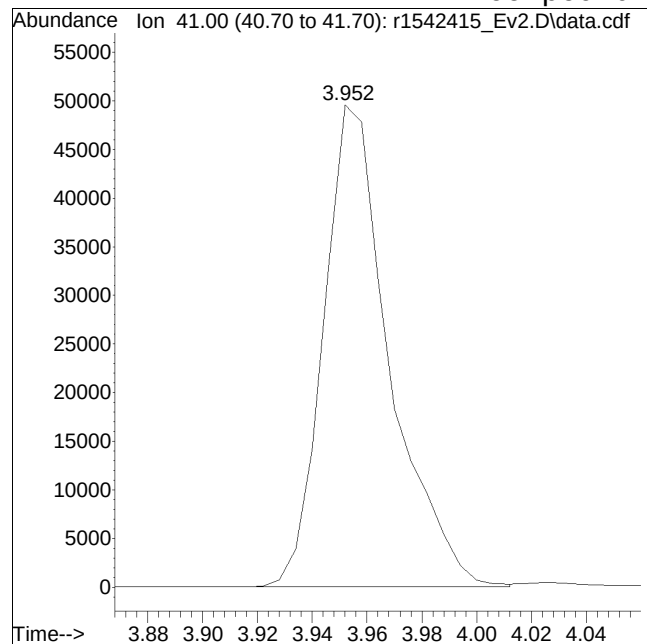
Response via : Initial Calibration



Manual Integration Report

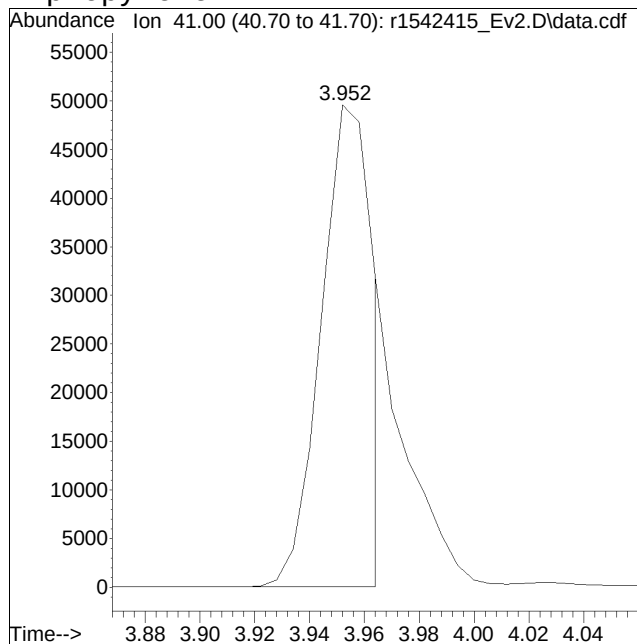
Data Path : 0:\Forensics\Data\AirLab15QMethod : TSIM15_231120.M
Data File : r1542415_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 1/31/2020 0:2: 7 Instrument :
Sample : WG1880236-2, 3, 250, 250 Quant Date : 1/31/2024 1:36 pm

Compound #2: propylene



Original Peak Response = 82932

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

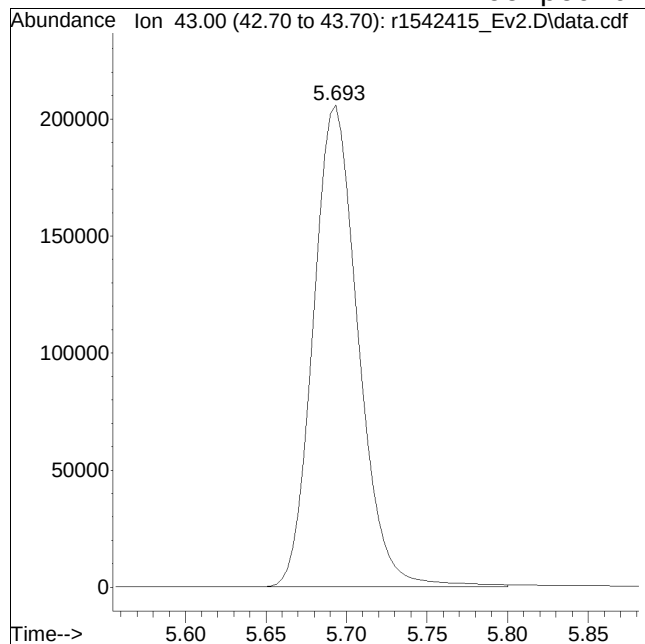


Manual Peak Response = 65150 M6

Manual Integration Report

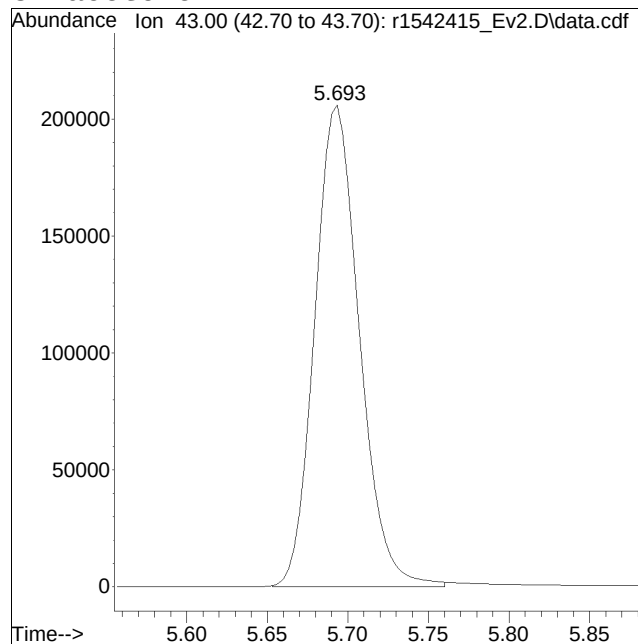
Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1542415_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 1/31/2020 0:2: 7 Instrument :
Sample : WG1880236-2,3,250,250 Quant Date : 1/31/2024 1:36 pm

Compound #13: acetone



Original Peak Response = 399426

M4 = Poor automated baseline construction.

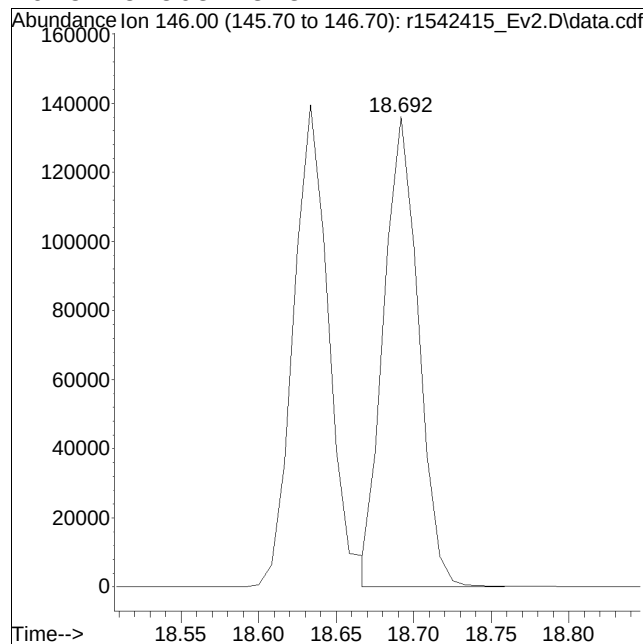
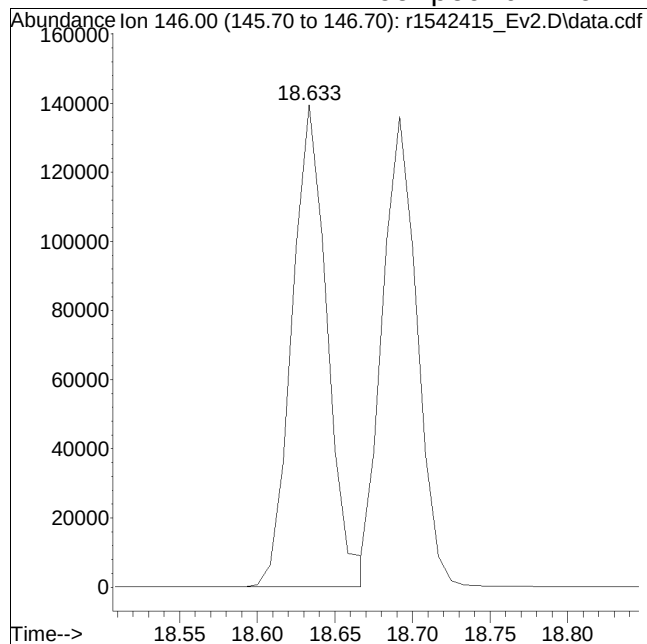


Manual Peak Response = 396929 M4

Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab150Method : TSIM15_231120.M
Data File : r1542415_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 1/31/2020 0:2: 7 Instrument :
Sample : WG1880236-2,3,250,250 Quant Date : 1/31/2024 1:36 pm

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 220597

Manual Peak Response = 212141 M3

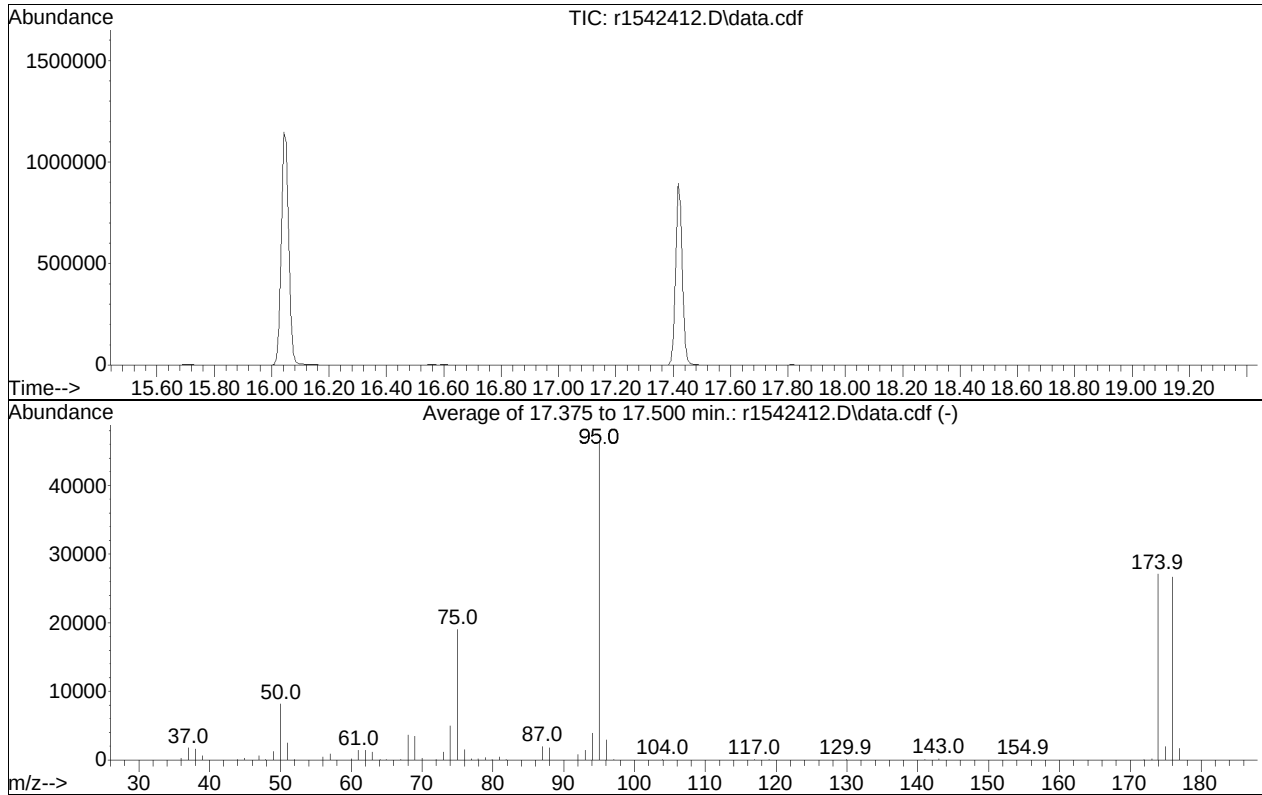
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

BFB

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\
 Data File : r1542412.D
 Acq On : 31 Jan 2024 10:56 AM
 Operator : AIRLAB15:JMB
 Sample : WG1880236-1,3,250,250
 Misc : WG1880236,ICAL20577
 ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\TSIM15_231120.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Tue Nov 21 16:16:02 2023



Spectrum Information: Average of 17.375 to 17.500 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.5	8163	PASS
75	95	30	66	40.9	19049	PASS
95	95	100	100	100.0	46545	PASS
96	95	5	9	6.4	2970	PASS
173	174	0.00	2	0.6	164	PASS
174	95	50	120	58.3	27156	PASS
175	174	4	9	7.1	1929	PASS
176	174	93	101	98.1	26642	PASS
177	176	5	9	6.4	1701	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\
 Data File : r1542417_Ev2.D
 Acq On : 31 Jan 2024 3:02 PM
 Operator : AIRLAB15:JMB
 Sample : WG1880236-4,3,250,250
 Misc : WG1880236,ICAL20577
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 31 15:59:56 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 16:16:05 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\r1542415_Ev2.D
 Sub List : Default-LCS-AP2 - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.125	49	214426	10.000	ppbV	0.06
Standard Area = 224563			Recovery =		95.49%	
33) 1,4-difluorobenzene	11.340	114	556439	10.000	ppbV	0.05
Standard Area = 616226			Recovery =		90.30%	
51) chlorobenzene-D5	16.042	54	102633	10.000	ppbV	0.04
Standard Area = 113391			Recovery =		90.51%	

System Monitoring Compounds

Target Compounds				Qvalue
12) acrolein	0.000	0	N.D.	
16) acrylonitrile	0.000	0	N.D.	
42) bromodichloromethane	0.000	0	N.D.	
50) 1,1,2-trichloroethane	0.000	0	N.D.	
55) dibromochloromethane	0.000	0	N.D.	
56) 1,2-dibromoethane	0.000	0	N.D.	
64) 1,1,2,2-tetrachloroethane	0.000	0	N.D.	
74) Benzyl Chloride	0.000	0	N.D.	
83) naphthalene	0.000	0	N.D.	

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

Sub List : Default-LCS-AP2 - All compounds listed1SIM\r1542415_Ev2.D

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\

Data File : r1542417_Ev2.D

Acq On : 31 Jan 2024 3:02 PM

Operator : AIRLAB15:JMB

Sample : WG1880236-4,3,250,250

Misc : WG1880236,ICAL20577

ALS Vial : 0 Sample Multiplier: 1

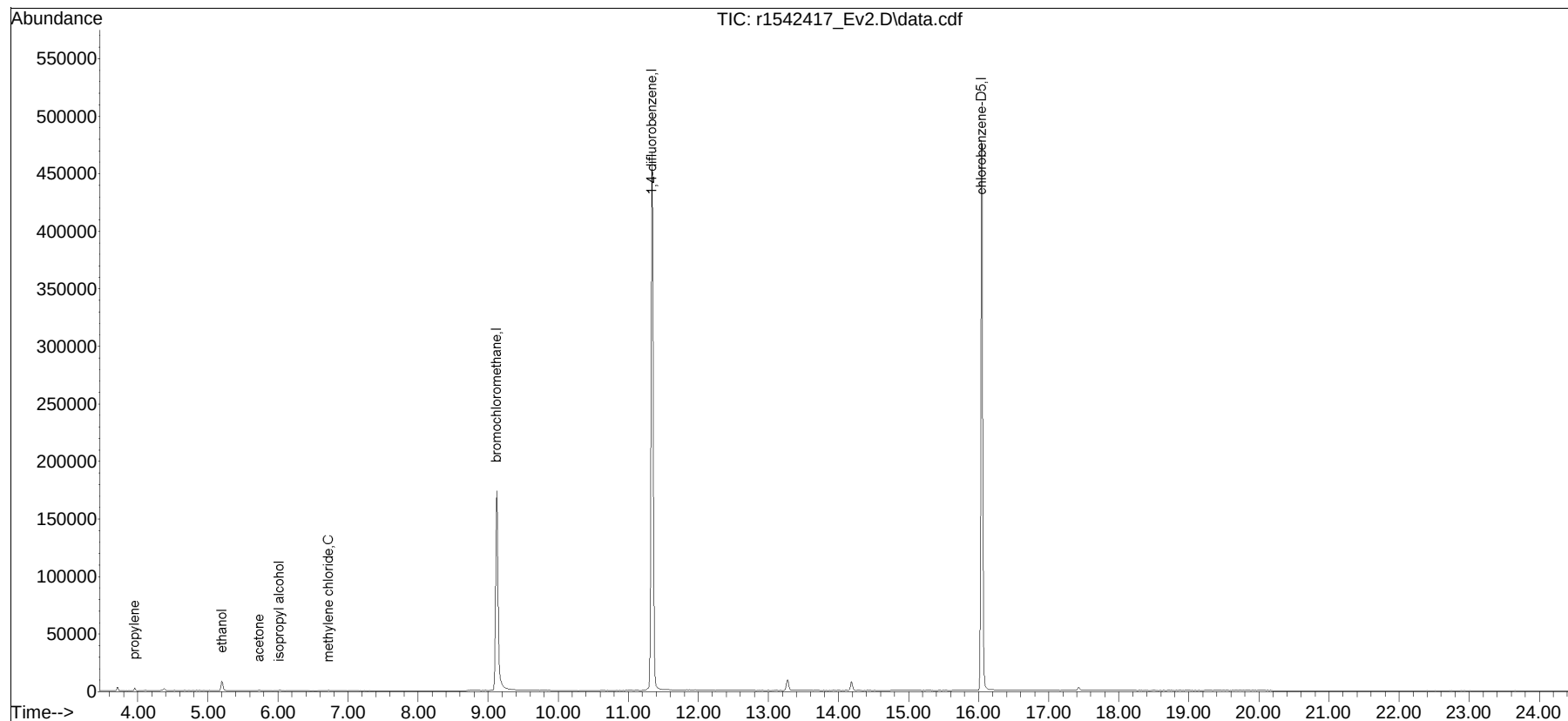
Quant Time: Jan 31 15:59:56 2024

Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\TSIM15_231120.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

QLast Update : Tue Nov 21 16:16:05 2023

Response via : Initial Calibration



Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1542417_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 1/31/2020 0:3: 2 Instrument :
Sample : WG1880236-4,3,250,250 Quant Date : 1/31/2024 3:59 pm

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

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\
 Data File : r1542415_Ev2.D
 Acq On : 31 Jan 2024 12:57 PM
 Operator : AIRLAB15:JMB
 Sample : WG1880236-3,3,250,250
 Misc : WG1880236,ICAL20577
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 31 13:36:02 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 16:16:05 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	bromochloromethane	10.000	10.000	0.0	108	0.06
2	propylene	5.000	5.380	-7.6	127	0.04
3	dichlorodifluoromethane	5.000	4.609	7.8	96	0.04
4 C	chloromethane	5.000	5.067	-1.3	105	0.04
5	Freon-114	5.000	5.245	-4.9	109	0.04
6 C	vinyl chloride	5.000	5.315	-6.3	115	0.04
7 C	1,3-butadiene	5.000	5.567	-11.3	116	0.04
8 C	bromomethane	5.000	4.883	2.3	107	0.04
9 C	chloroethane	5.000	5.707	-14.1	125	0.05
10	ethanol	25.000	28.579	-14.3	117	0.05
11 C	vinyl bromide	5.000	5.384	-7.7	121	0.05
12 C	acrolein	5.000	4.709	5.8	107	0.05
13	acetone	25.000	32.557	-30.2#	144	0.05
14	trichlorofluoromethane	5.000	5.760	-15.2	124	0.05
15	isopropyl alcohol	12.500	13.107	-4.9	120	0.05
16 C	acrylonitrile	5.000	4.966	0.7	100	0.05
17 C	1,1-dichloroethene	5.000	5.144	-2.9	114	0.05
18	tertiary butyl alcohol	5.000	4.836	3.3	112	0.05
19 C	methylene chloride	5.000	4.663	6.7	100	0.05
20 C	3-chloropropene	5.000	5.465	-9.3	121	0.05
21 C	carbon disulfide	5.000	4.406	11.9	97	0.05
22	Freon 113	5.000	4.830	3.4	107	0.05
23	trans-1,2-dichloroethene	5.000	5.018	-0.4	110	0.05
24 C	1,1-dichloroethane	5.000	4.937	1.3	109	0.05
25 C	MTBE	5.000	4.432	11.4	99	0.06
26 C	vinyl acetate	5.000	4.424	11.5	104	0.06
27 C	2-butanone	5.000	5.075	-1.5	113	0.05
28	cis-1,2-dichloroethene	5.000	4.839	3.2	107	0.05
29	Ethyl Acetate	5.000	5.210	-4.2	118	0.05
30 C	chloroform	5.000	4.311	13.8	94	0.05
31	Tetrahydrofuran	5.000	4.878	2.4	109	0.06
32 C	1,2-dichloroethane	5.000	5.458	-9.2	120	0.06
33 I	1,4-difluorobenzene	10.000	10.000	0.0	102	0.05
34 C	hexane	5.000	5.545	-10.9	116	0.05
36 C	1,1,1-trichloroethane	5.000	5.381	-7.6	110	0.06
37 C	benzene	5.000	4.440	11.2	90	0.05
38 C	carbon tetrachloride	5.000	5.070	-1.4	99	0.05
39	cyclohexane	5.000	5.306	-6.1	110	0.05

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\
 Data File : r1542415_Ev2.D
 Acq On : 31 Jan 2024 12:57 PM
 Operator : AIRLAB15:JMB
 Sample : WG1880236-3,3,250,250
 Misc : WG1880236,ICAL20577
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 31 13:36:02 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 16:16:05 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40	Dibromomethane	5.000	4.927	1.5	106	0.05
41 C	1,2-dichloropropane	5.000	4.935	1.3	104	0.05
42	bromodichloromethane	5.000	5.340	-6.8	106	0.05
43 C	1,4-dioxane	5.000	4.977	0.5	104	0.05
44 C	trichloroethene	5.000	4.611	7.8	95	0.05
45 C	2,2,4-trimethylpentane	5.000	5.680	-13.6	117	0.05
46	heptane	5.000	5.671	-13.4	117	0.05
47 C	cis-1,3-dichloropropene	5.000	4.651	7.0	87	0.05
48 C	4-methyl-2-pentanone	5.000	5.689	-13.8	115	0.05
49	trans-1,3-dichloropropene	5.000	4.709	5.8	86	0.05
50 C	1,1,2-trichloroethane	5.000	4.837	3.3	100	0.04
51 I	chlorobenzene-D5	10.000	10.000	0.0	113	0.04
52 C	toluene	5.000	4.280	14.4	98	0.05
54	2-hexanone	5.000	4.958	0.8	111	0.04
55	dibromochloromethane	5.000	5.263	-5.3	117	0.04
56 C	1,2-dibromoethane	5.000	4.256	14.9	92	0.04
57 C	tetrachloroethene	5.000	3.712	25.8	85	0.04
58	1,1,1,2-tetrachloroethane	5.000	4.436	11.3	102	0.03
59 C	chlorobenzene	5.000	3.963	20.7	89	0.03
60 C	ethylbenzene	5.000	4.223	15.5	94	0.03
61 C	m+p-xylene	10.000	8.939	10.6	97	0.02
62 C	bromoform	5.000	4.952	1.0	108	0.03
63 C	styrene	5.000	4.131	17.4	88	0.04
64 C	1,1,2,2-tetrachloroethane	5.000	4.151	17.0	90	0.04
65 C	o-xylene	5.000	4.507	9.9	99	0.03
66	1,2,3-Trichloropropane	5.000	4.307	13.9	97	0.03
68 C	isopropylbenzene	5.000	4.373	12.5	100	0.03
69	Bromobenzene	5.000	4.217	15.7	95	0.03
70	4-ethyl toluene	5.000	4.565	8.7	99	0.03
71	1,3,5-trimethylbenzene	5.000	4.913	1.7	94	0.03
72	tert-butylbenzene	5.000	4.121	17.6	90	0.03
73	1,2,4-trimethylbenzene	5.000	4.471	10.6	92	0.03
74 C	Benzyl Chloride	5.000	4.731	5.4	101	0.03
75	1,3-dichlorobenzene	5.000	4.269	14.6	90	0.03
76 C	1,4-dichlorobenzene	5.000	4.179	16.4	87	0.03
77	sec-butylbenzene	5.000	4.380	12.4	97	0.04
78	p-isopropyltoluene	5.000	4.109	17.8	89	0.04
79	1,2-dichlorobenzene	5.000	4.118	17.6	87	0.05

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\
 Data File : r1542415_Ev2.D
 Acq On : 31 Jan 2024 12:57 PM
 Operator : AIRLAB15:JMB
 Sample : WG1880236-3,3,250,250
 Misc : WG1880236,ICAL20577
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 31 13:36:02 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 16:16:05 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
80	n-butylbenzene	5.000	4.645	7.1	102	0.06
81	1,2-dibromo-3-chloropropane	5.000	5.215	-4.3	103	0.07
82 C	1,2,4-trichlorobenzene	5.000	3.922	21.6	77	0.10
83	naphthalene	5.000	4.618	7.6	95	0.11
84	1,2,3-trichlorobenzene	5.000	4.375	12.5	91	0.10
85 C	hexachlorobutadiene	5.000	4.136	17.3	84	0.10

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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\
 Data File : r1542415_Ev2.D
 Acq On : 31 Jan 2024 12:57 PM
 Operator : AIRLAB15:JMB
 Sample : WG1880236-3,3,250,250
 Misc : WG1880236,ICAL20577
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 31 13:36:02 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 16:16:05 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\r1542415_Ev2.D
 Sub List : Default-LCS-AP2 - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.125	49	224563	10.000	ppbV	0.06
Standard Area = 224563			Recovery	=	100.00%	
33) 1,4-difluorobenzene	11.340	114	616226	10.000	ppbV	0.05
Standard Area = 616226			Recovery	=	100.00%	
51) chlorobenzene-D5	16.042	54	113391	10.000	ppbV	0.04
Standard Area = 113391			Recovery	=	100.00%	

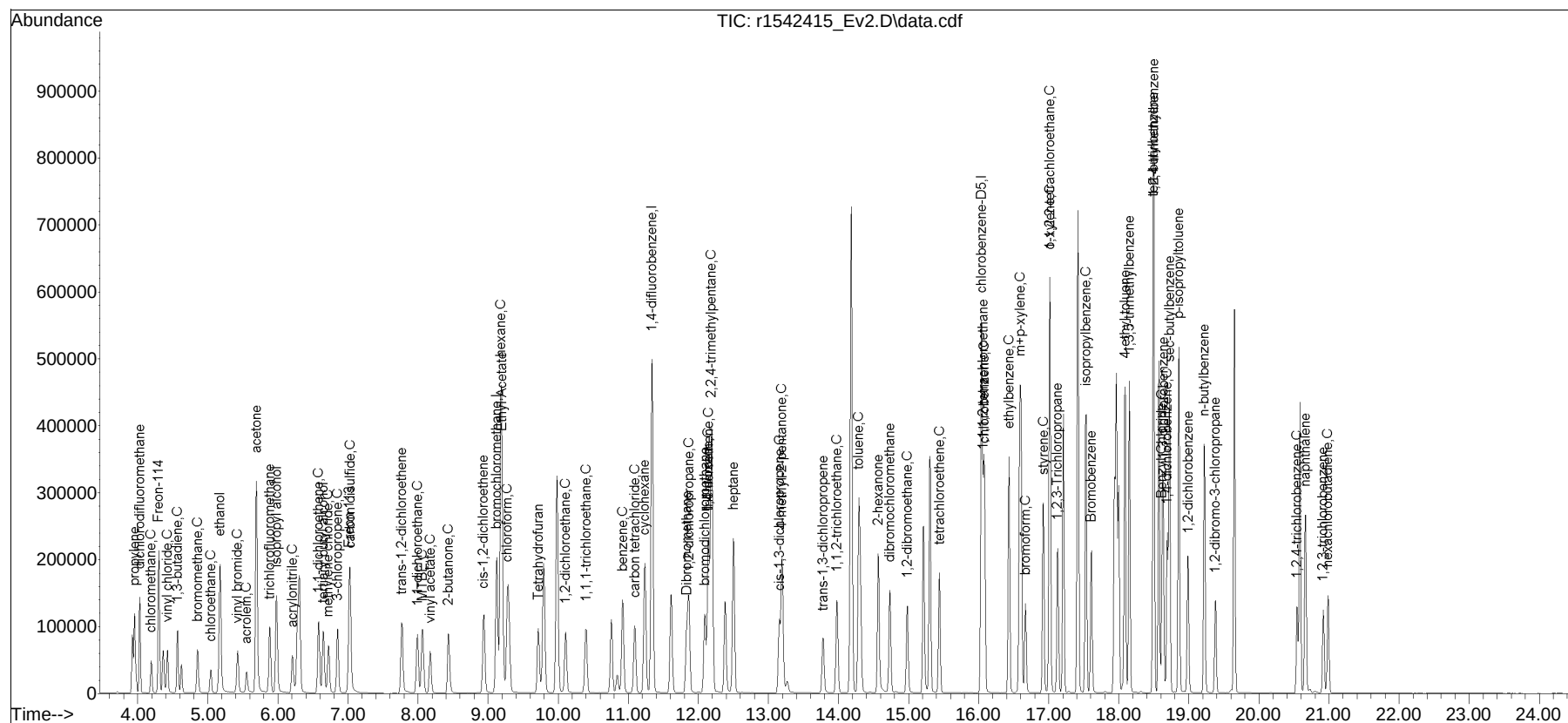
System Monitoring Compounds

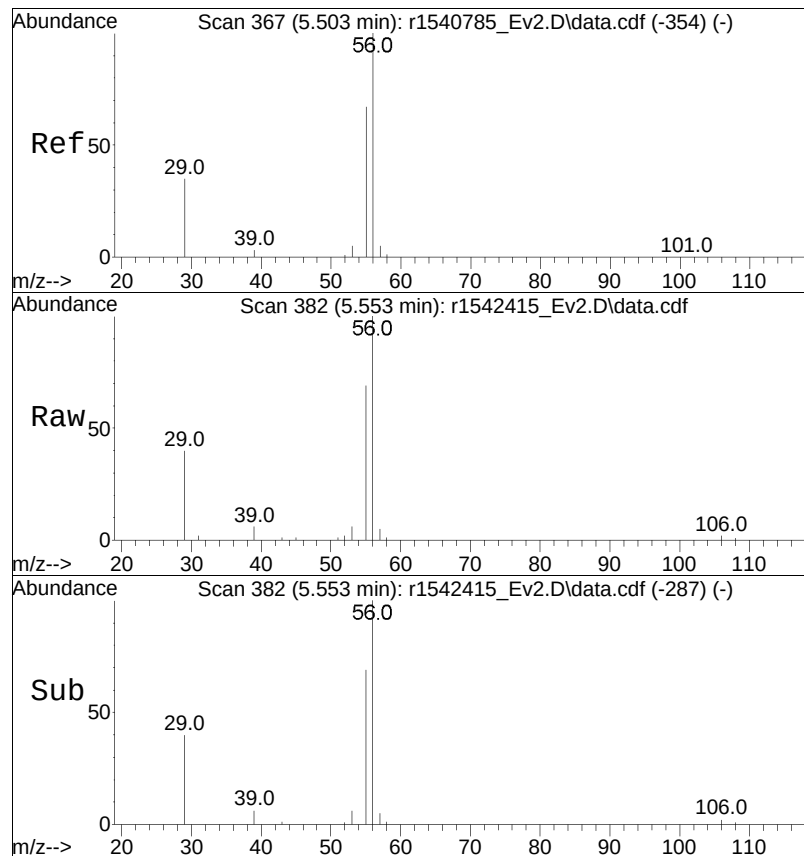
Target Compounds					Qvalue	
12) acrolein	5.553	56	26703	4.709	ppbV	98
16) acrylonitrile	6.207	53	58022	4.966	ppbV	98
42) bromodichloromethane	12.093	83	134072	5.340	ppbV	97
50) 1,1,2-trichloroethane	13.975	97	88098	4.837	ppbV #	91
55) dibromochloromethane	14.733	129	129905	5.263	ppbV	96
56) 1,2-dibromoethane	14.983	107	123560	4.256	ppbV	99
64) 1,1,2,2-tetrachloroethane	17.017	83	211899	4.151	ppbV	98
74) Benzyl Chloride	18.617	91	193752	4.731	ppbV	92
83) naphthalene	20.667	128	432420	4.618	ppbV	99

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


```
Data Path   : 0:\Forensics\Data\AirLab15\2024\01\0131SIM\
Data File  : r1542415_Ev2.D
Acq On     : 31 Jan 2024  12:57 PM
Operator   : AIRLAB15:JMB
Sample     : WG1880236-3,3,250,250
Misc       : WG1880236,ICAL20577
ALS Vial   : 0      Sample Multiplier: 1
```

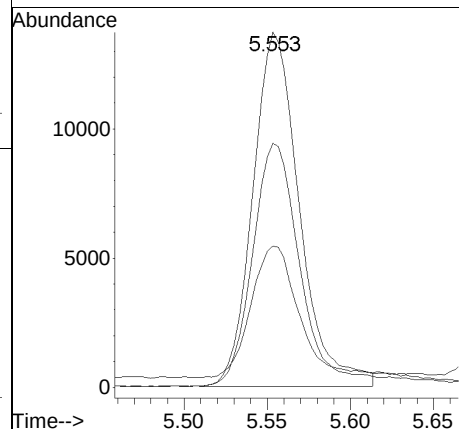
Quant Time: Jan 31 13:36:02 2024
Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\TSIM15_231120.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:05 2023
Response via : Initial Calibration

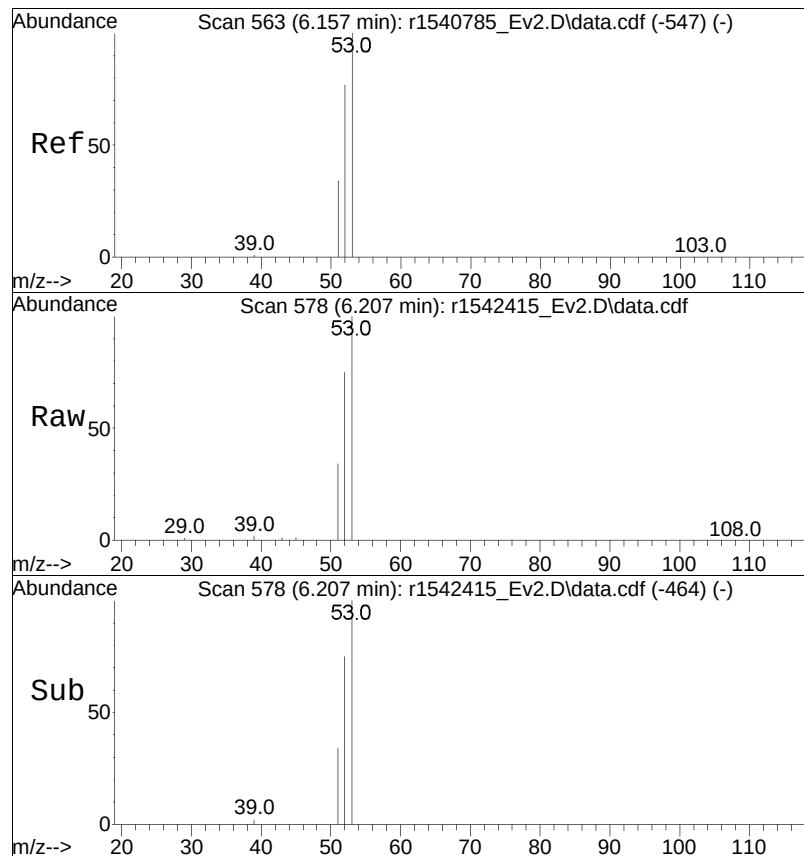




#12
acrolein
Concen: 4.71 ppbV
RT: 5.553 min Scan# 382
Delta R.T. 0.050 min
Lab File: r1542415_Ev2.D
Acq: 31 Jan 2024 12:57 PM

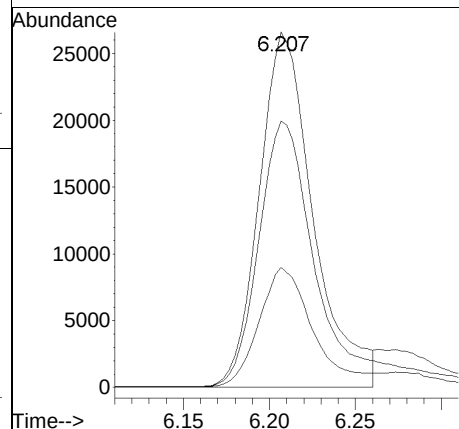
Tgt	Ion	Resp	Lower	Upper
56	100			
55	68.4		55.4	83.2
29	37.6		28.8	43.2

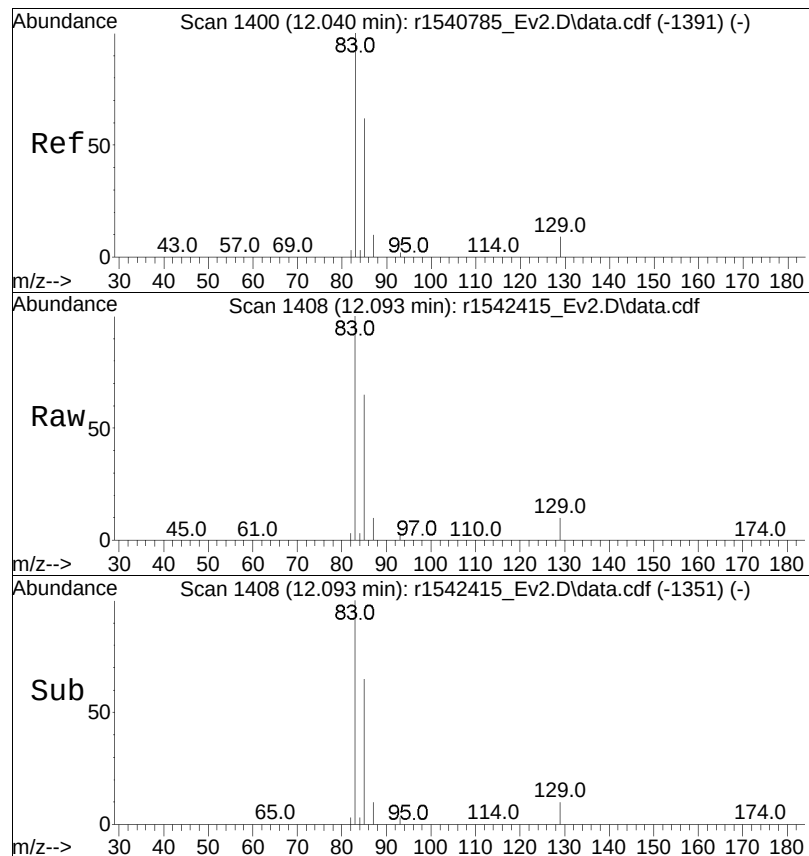




#16
 acrylonitrile
 Concen: 4.97 ppbV
 RT: 6.207 min Scan# 578
 Delta R.T. 0.050 min
 Lab File: r1542415_Ev2.D
 Acq: 31 Jan 2024 12:57 PM

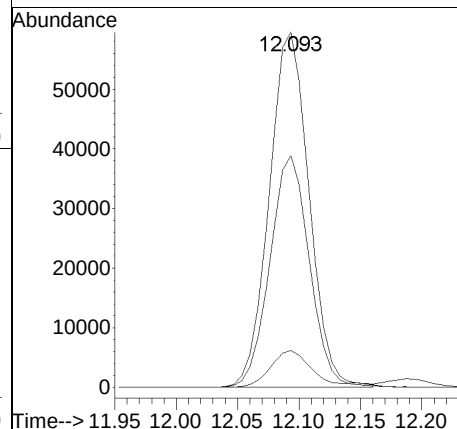
Tgt Ion:	53	Resp:	58022
Ion Ratio	Lower	Upper	
53	100		
52	74.9	61.8	92.8
51	33.8	27.4	41.0

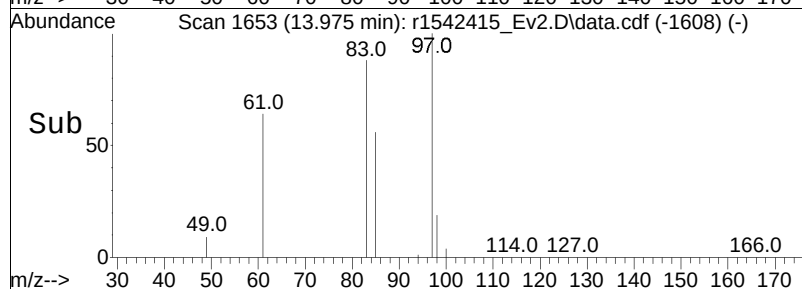
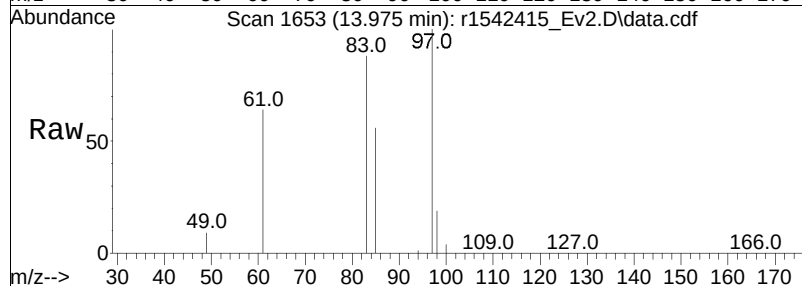
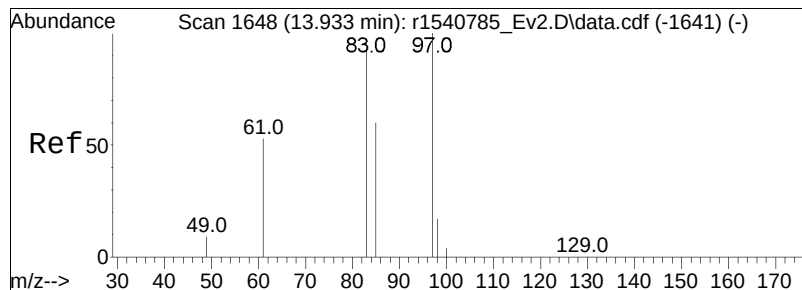




#42
bromodichloromethane
Concen: 5.34 ppbV
RT: 12.093 min Scan# 1408
Delta R.T. 0.053 min
Lab File: r1542415_Ev2.D
Acq: 31 Jan 2024 12:57 PM

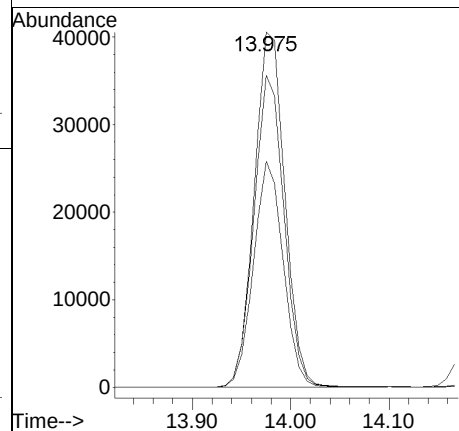
Tgt Ion:	83	Resp:	134072
Ion Ratio	Lower	Upper	
83	100		
85	65.3	50.0	75.0
129	10.4	7.5	11.3

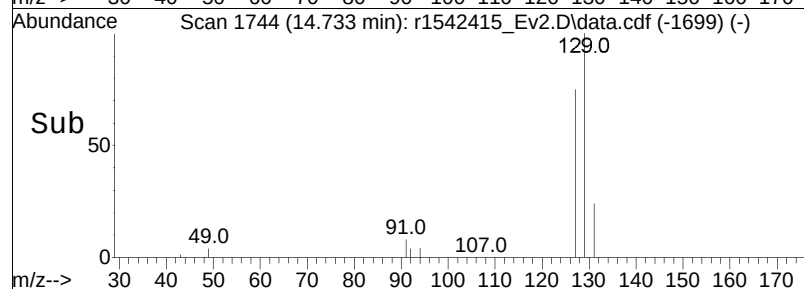
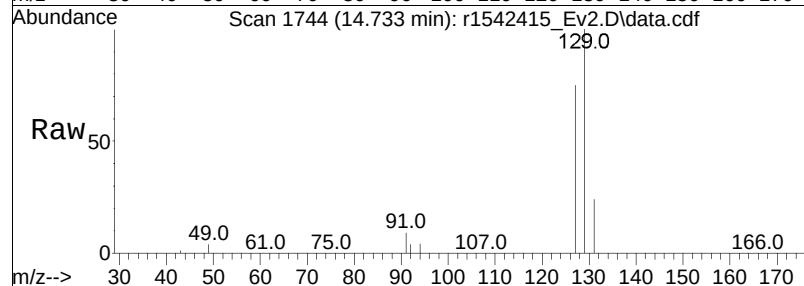
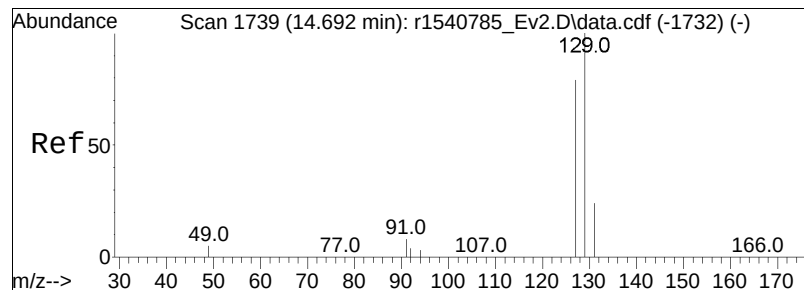




#50
 1,1,2-trichloroethane
 Concen: 4.84 ppbV
 RT: 13.975 min Scan# 1653
 Delta R.T. 0.042 min
 Lab File: r1542415_Ev2.D
 Acq: 31 Jan 2024 12:57 PM

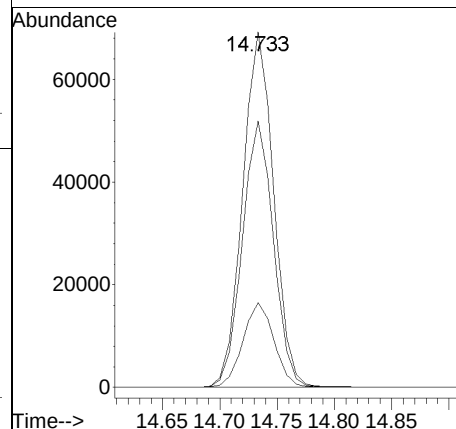
Tgt Ion	Ratio	Lower	Upper
97	100		
83	87.8	74.7	112.1
61	63.7	42.4	63.6

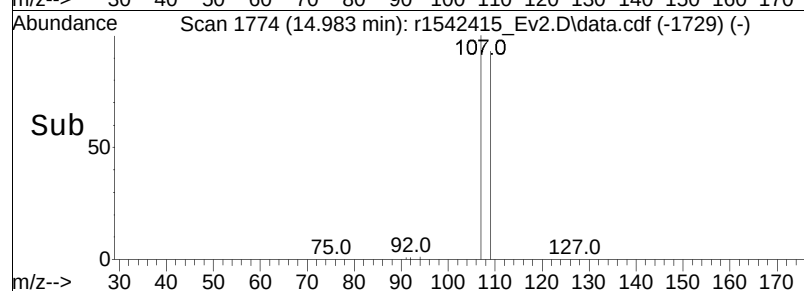
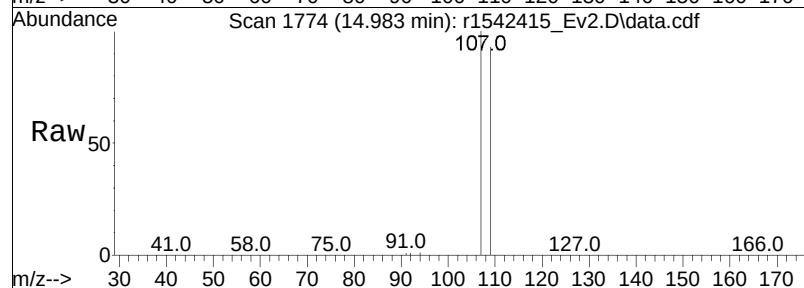
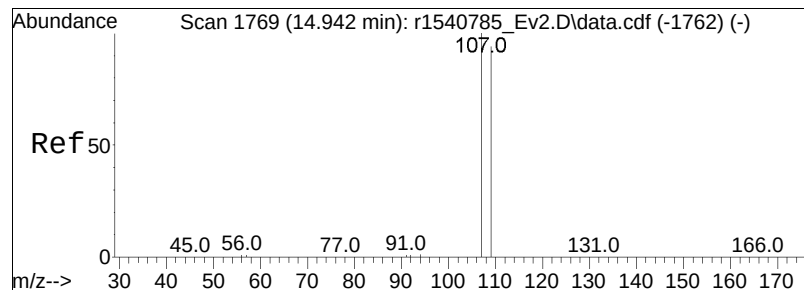




#55
 dibromochloromethane
 Concen: 5.26 ppbV
 RT: 14.733 min Scan# 1744
 Delta R.T. 0.042 min
 Lab File: r1542415_Ev2.D
 Acq: 31 Jan 2024 12:57 PM

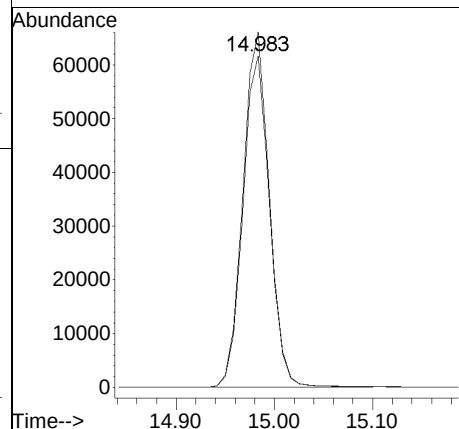
Tgt	Ion:129	Resp:	129905
Ion	Ratio	Lower	Upper
129	100		
127	74.9	63.4	95.2
131	23.9	18.9	28.3

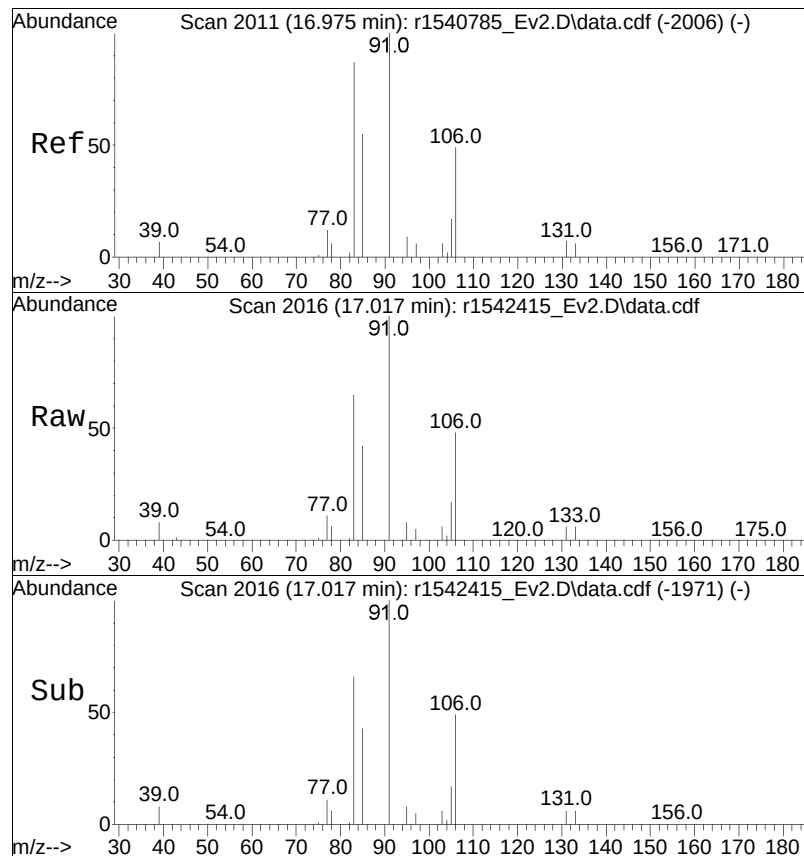




#56
 1,2-dibromoethane
 Concen: 4.26 ppbV
 RT: 14.983 min Scan# 1774
 Delta R.T. 0.042 min
 Lab File: r1542415_Ev2.D
 Acq: 31 Jan 2024 12:57 PM

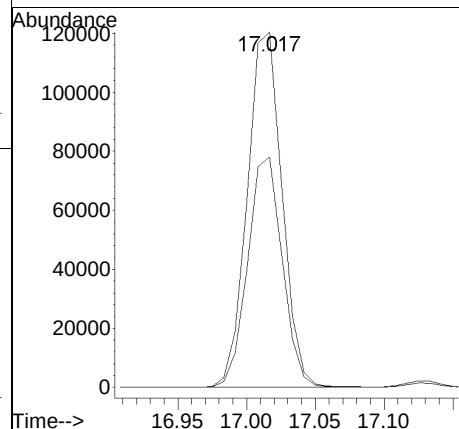
Tgt Ion	Ratio	Lower	Upper
107	100		
109	93.3	75.5	113.3

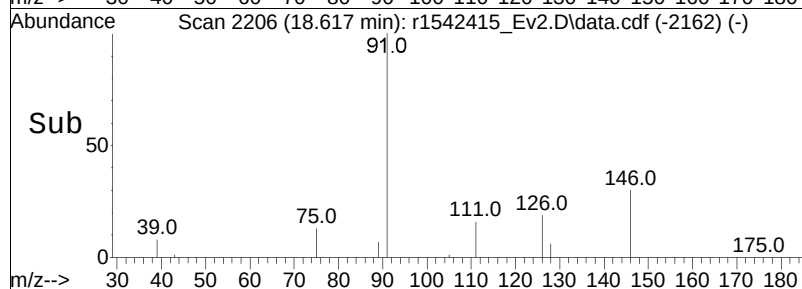
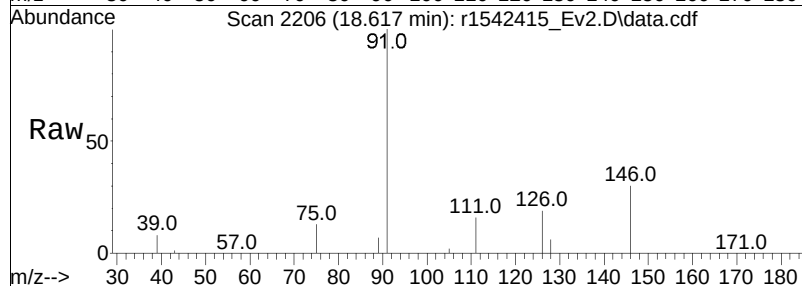
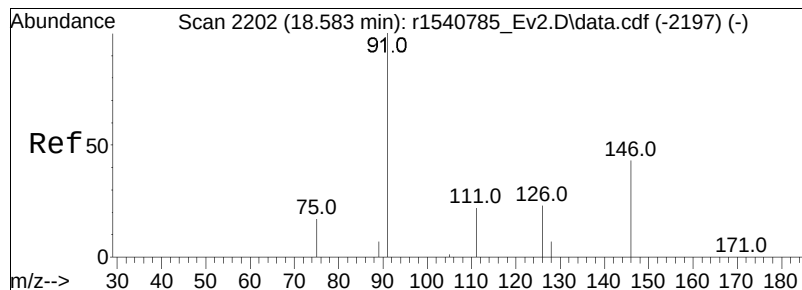




#64
 1,1,2,2-tetrachloroethane
 Concen: 4.15 ppbV
 RT: 17.017 min Scan# 2016
 Delta R.T. 0.042 min
 Lab File: r1542415_Ev2.D
 Acq: 31 Jan 2024 12:57 PM

Tgt Ion:	83	Resp:	211899
Ion Ratio	Lower	Upper	
83	100		
85	64.9	50.4	75.6





#74

Benzyl Chloride

Concen: 4.73 ppbV

RT: 18.617 min Scan# 2206

Delta R.T. 0.033 min

Lab File: r1542415_Ev2.D

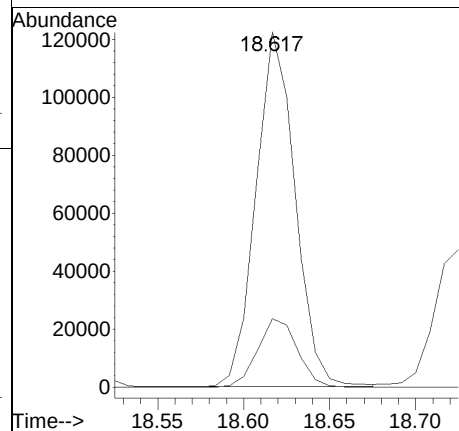
Acq: 31 Jan 2024 12:57 PM

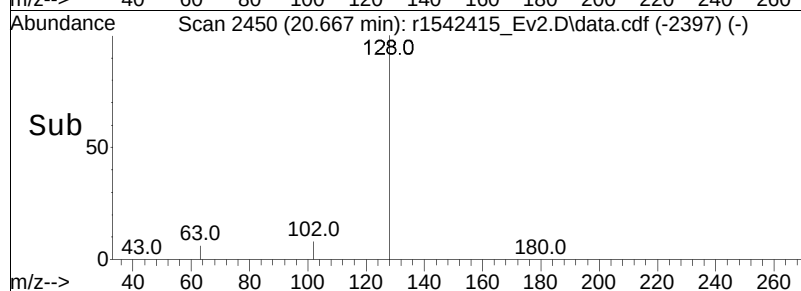
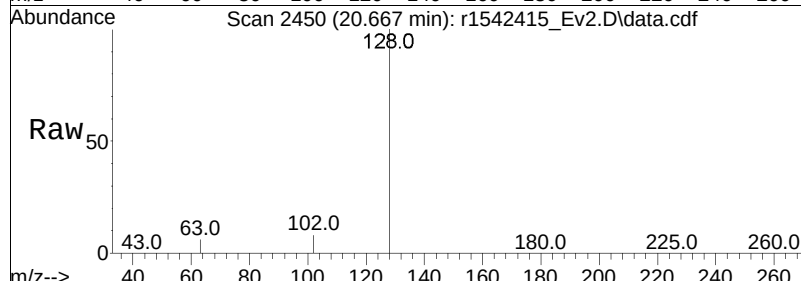
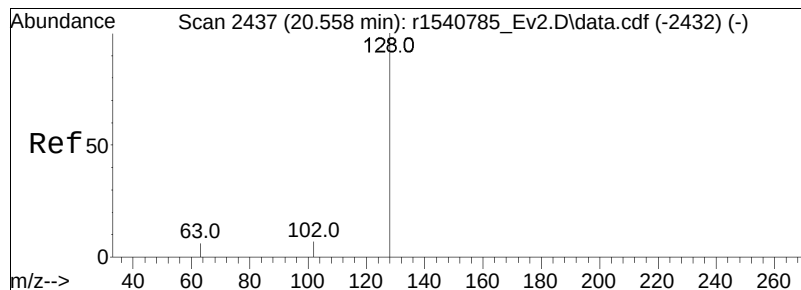
Tgt Ion: 91 Resp: 193752

Ion Ratio Lower Upper

91 100

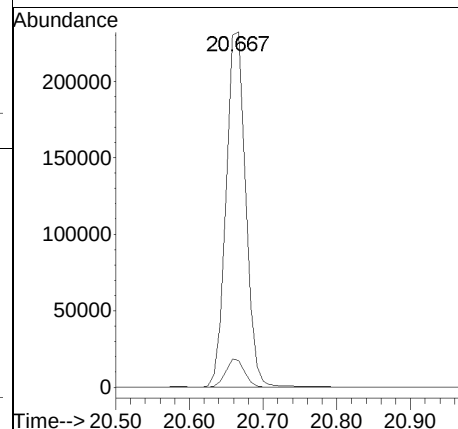
126 19.3 18.6 27.8





#83
naphthalene
Concen: 4.62 ppbV
RT: 20.667 min Scan# 2450
Delta R.T. 0.108 min
Lab File: r1542415_Ev2.D
Acq: 31 Jan 2024 12:57 PM

Tgt Ion:128 Resp: 432420
Ion Ratio Lower Upper
128 100
102 7.6 5.7 8.5



Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\
 Data File : r1542426_Ev2.D
 Acq On : 31 Jan 2024 10:53 PM
 Operator : AIRLAB15:JMB
 Sample : WG1880236-5,3,250,250
 Misc : WG1880236,ICAL20577
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 01 06:45:41 2024
 Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\TSIM15_231120.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Nov 21 16:16:05 2023
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\r1542415_Ev2.D
 Sub List : 9_PA_SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.125	49	218176	10.000	ppbV	0.06
Standard Area = 224563			Recovery =		97.16%	
33) 1,4-difluorobenzene	11.340	114	585707	10.000	ppbV	# 0.05
Standard Area = 616226			Recovery =		95.05%	
51) chlorobenzene-D5	16.042	54	110659	10.000	ppbV	0.04
Standard Area = 113391			Recovery =		97.59%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) acrolein	5.553	56	681	0.124	ppbV	# 63
16) acrylonitrile	6.207	53	4230	0.373	ppbV	95
42) bromodichloromethane	0.000		0	N.D.	d	
50) 1,1,2-trichloroethane	0.000		0	N.D.	d	
55) dibromochloromethane	0.000		0	N.D.		
56) 1,2-dibromoethane	14.975		0	N.D.		
64) 1,1,2,2-tetrachloroethane	16.942		0	N.D.		
74) Benzyl Chloride	18.567		0	N.D.		
83) naphthalene	20.600	128	5266M4	0.058	ppbV	

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

Sub List : 9_PA_SIM - .\Data\Airlab15\2024\01\0131SIM\r1542415_Ev2.D

Data Path : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\

Data File : r1542426_Ev2.D

Acq On : 31 Jan 2024 10:53 PM

Operator : AIRLAB15:JMB

Sample : WG1880236-5,3,250,250

Misc : WG1880236,ICAL20577

ALS Vial : 0 Sample Multiplier: 1

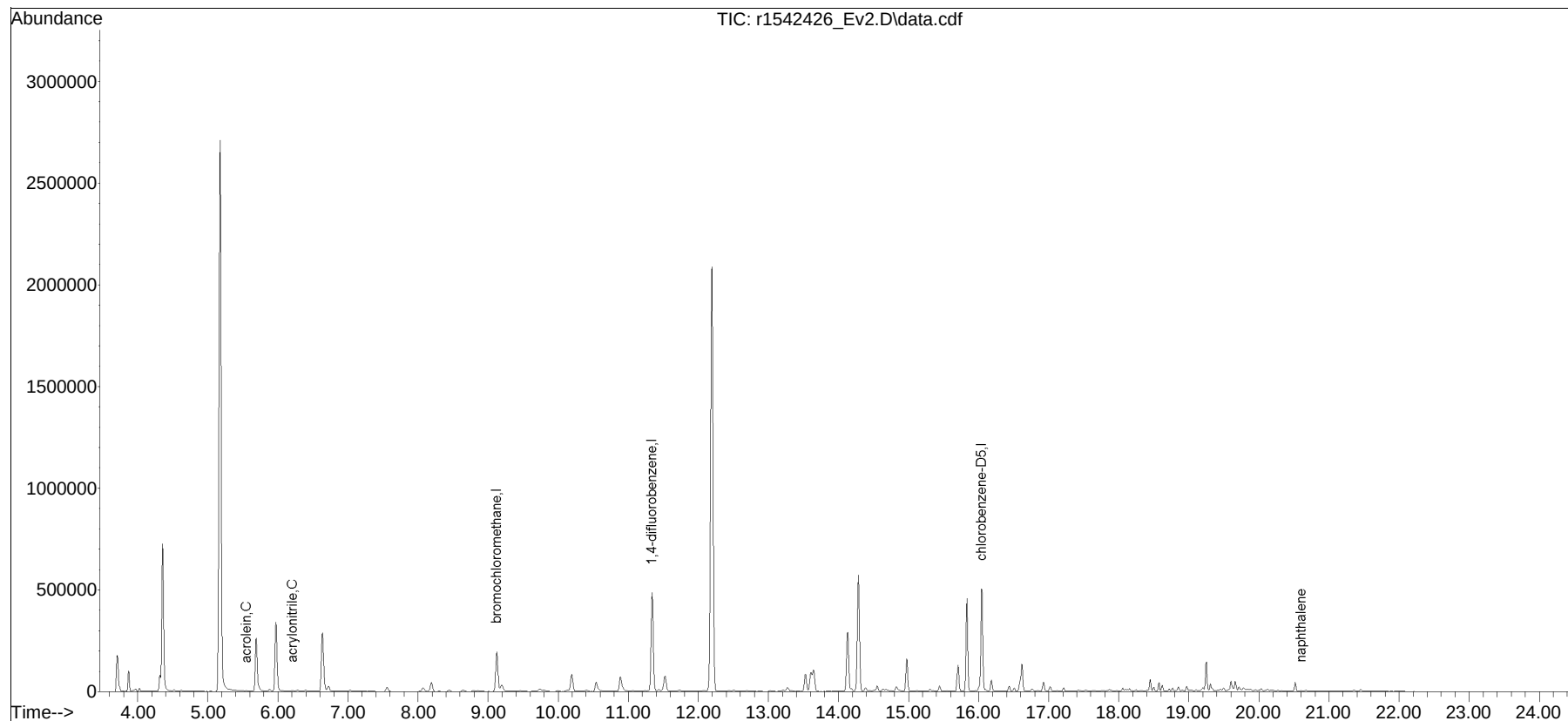
Quant Time: Feb 01 06:45:41 2024

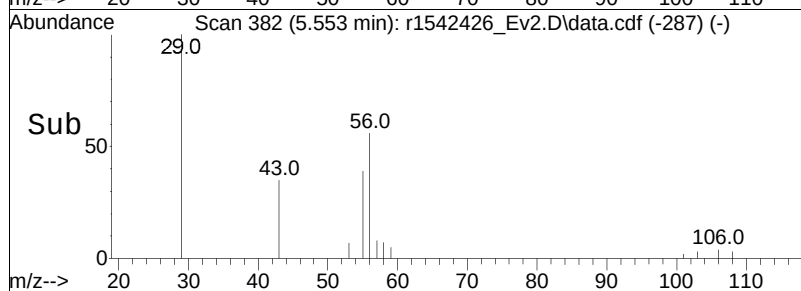
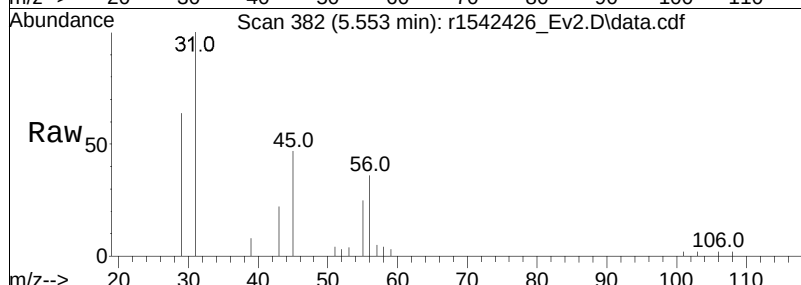
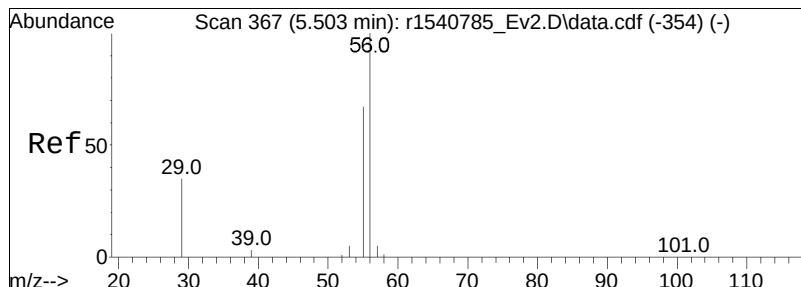
Quant Method : 0:\Forensics\Data\Airlab15\2024\01\0131SIM\TSIM15_231120.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

QLast Update : Tue Nov 21 16:16:05 2023

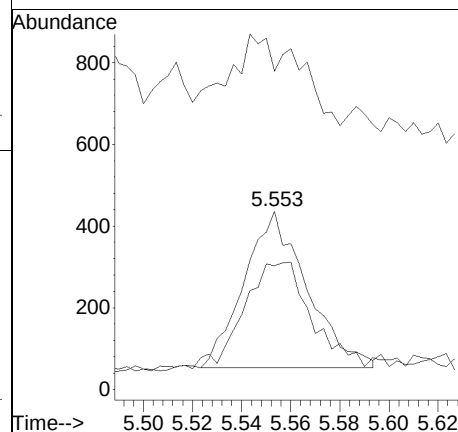
Response via : Initial Calibration

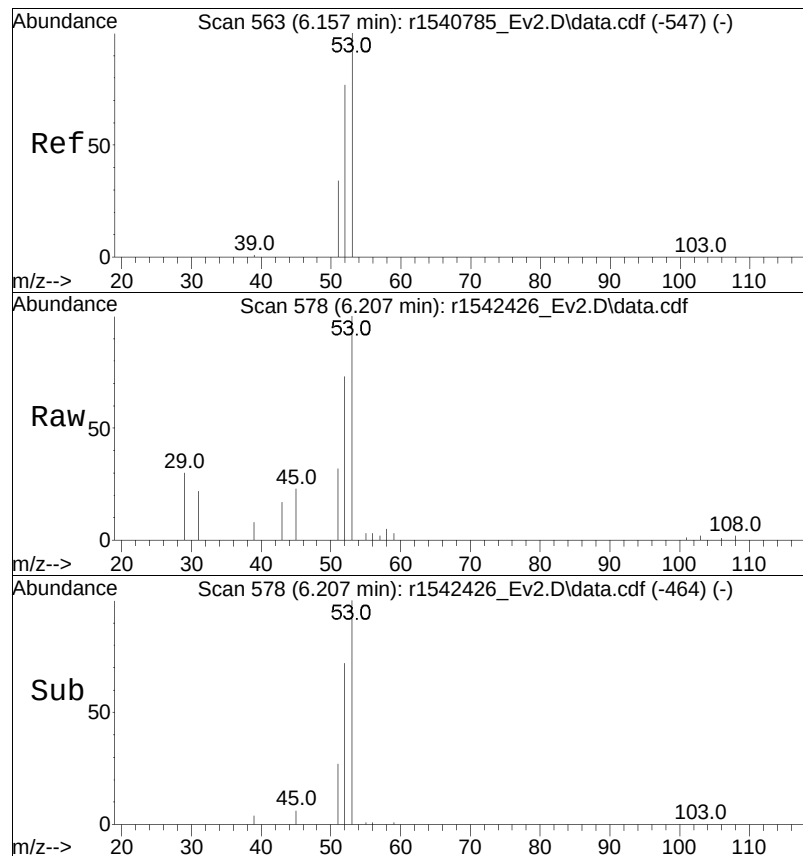




#12
acrolein
Concen: 0.12 ppbV
RT: 5.553 min Scan# 382
Delta R.T. 0.050 min
Lab File: r1542426_Ev2.D
Acq: 31 Jan 2024 10:53 PM

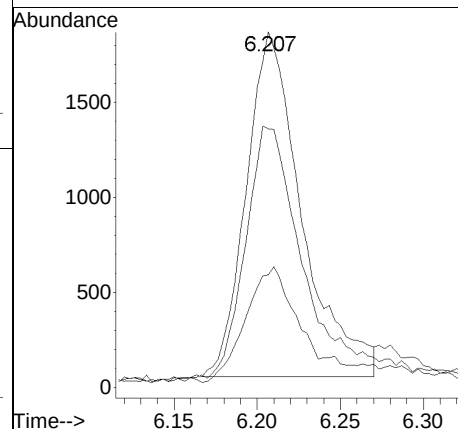
Tgt Ion:	56	Resp:	681
Ion Ratio	Lower	Upper	
56	100		
55	32.0	55.4	83.2#
29	23.6	28.8	43.2#

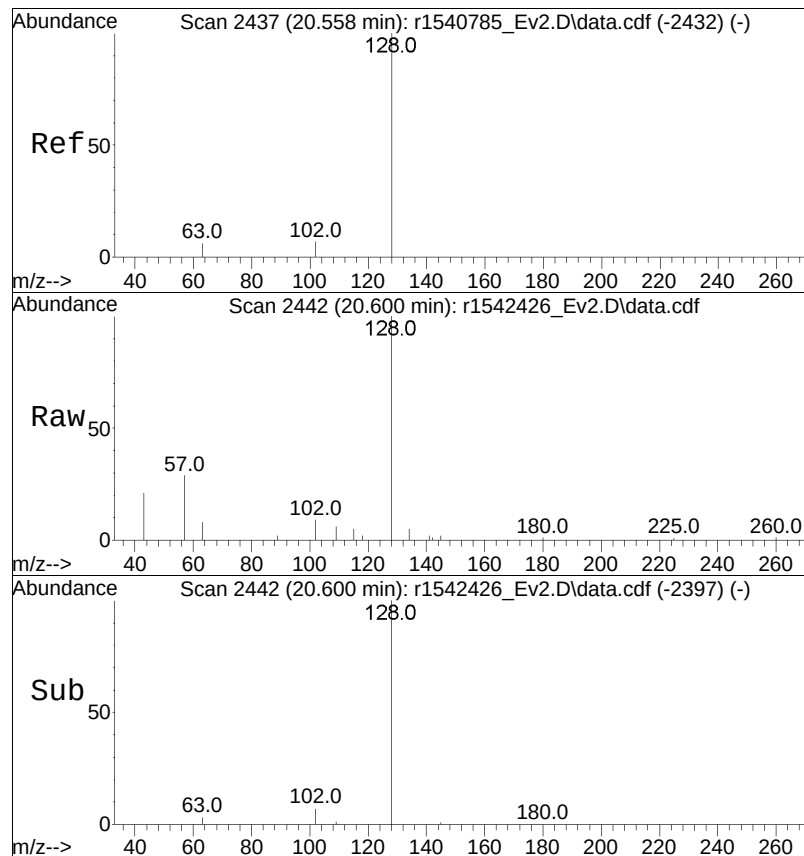




#16
acrylonitrile
Concen: 0.37 ppbV
RT: 6.207 min Scan# 578
Delta R.T. 0.050 min
Lab File: r1542426_Ev2.D
Acq: 31 Jan 2024 10:53 PM

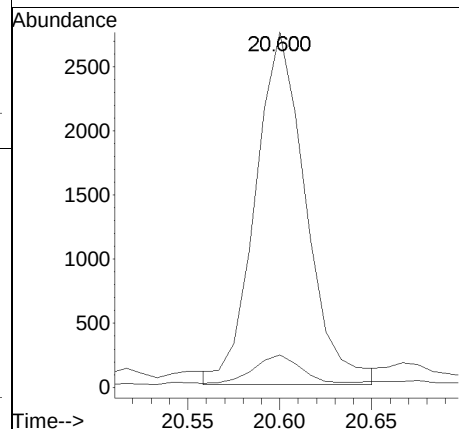
Tgt	Ion: 53	Resp:	4230
Ion	Ratio	Lower	Upper
53	100		
52	72.8	61.8	92.8
51	31.7	27.4	41.0





#83
 naphthalene
 Concen: 0.06 ppbV m
 RT: 20.600 min Scan# 2442
 Delta R.T. 0.042 min
 Lab File: r1542426_Ev2.D
 Acq: 31 Jan 2024 10:53 PM

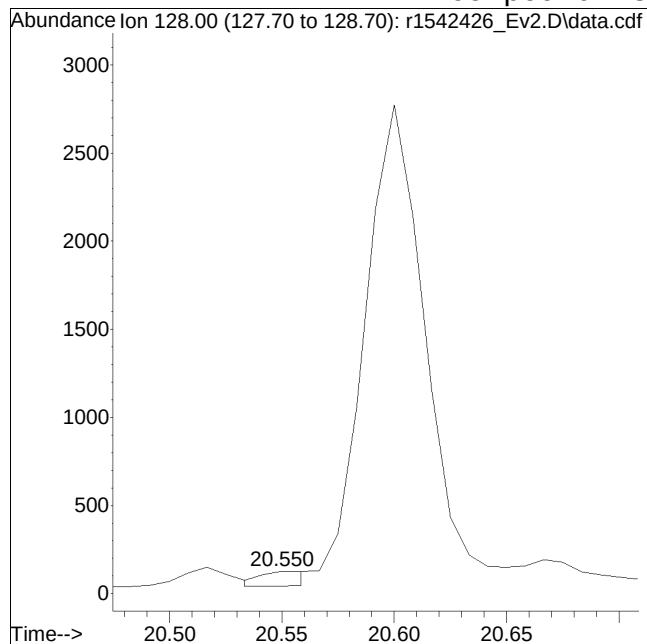
Tgt Ion	Ratio	Lower	Upper
128	100		
102	9.2	5.7	8.5#



Manual Integration Report

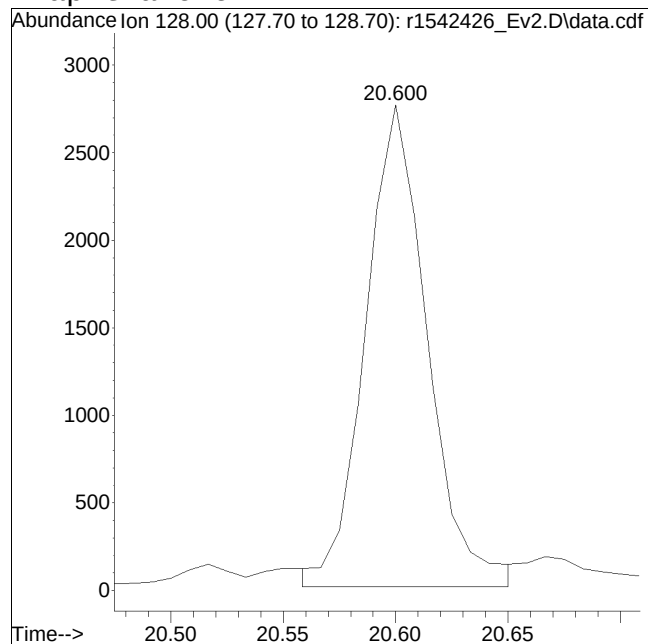
Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1542426_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 1/31/2020 0:0: 3 Instrument :
Sample : WG1880236-5,3,250,250 Quant Date : 2/1/2024 6:45 am

Compound #83: naphthalene



Original Peak Response = 115

M4 = Poor automated baseline construction.



Manual Peak Response = 5266 M4

Calculation of Volatile Organic Compounds in Air

The instrument will calculate the concentration (ppbv). If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, ppbv} = C_s \times \text{DF}$$

Where:

C_s = Concentration of sample (ppbv)

DF = Dilution Factor

Calculation of Instrument Dilution Factor

For dilutions, smaller sample volumes (< 250mL) are analyzed. The smallest volume that can be analyzed with accuracy is 10 mL.

Samples that arrive at the laboratory with pressures below -15 inches Hg must be pressurized with zero air to greater than -15 inches Hg. This pressurization results in a dilution factor.

Calculation of Dilution Factor

$$\text{DF} = V_{\text{cf}} / V_{\text{ci}}$$

Where:

V_{ci} = volume of air in canister prior to pressurization, L

P =

Conversion of ppbv to $\mu\text{g}/\text{m}^3$

$$\mu\text{g}/\text{m}^3 = (\text{ppbv}) \times \text{MW} / 24.47$$

Where:

24.47 = molar gas constant (g/g-mole)

MW = molecular weight of the compound of interest

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

$$V_{ci} = 2.7 * PI / 14.696$$

Step 2: Calculate the volume in the canister after pressurization.

$$V_{cf} = 2.7 * PF / 14.696$$

Step 3: Calculate the dilution factor.

$$DF = V_{cf} / V_{ci}$$

Where:

V_{ci} = volume of air in canister prior to pressurization, L

PI = pressure reading of canister prior to pressurization (psia)

V_{cf} = volume of air in canister after pressurization, L

PF = pressure reading of canister after pressurization (psia)

DF = dilution factor

14.696 = atmospheric pressure (psia)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Feb 13 2024, 08:09 am

Work Group: WG1880236 for Department: 3 GC/MS

Created: 31-JAN-24 Due: Operator: JFI

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2400005-50	AIR DUMMY 50	S T015-SIM	AIR	DONE	U	0131	0214	NC	Can-2.7
L2403288-02	AMBIENT	S T015-SIM	AIR	DONE	U	0217	0202	S0	Can-2.7
L2403288-04	IA-DCR	S T015-SIM	AIR	DONE	U	0217	0202	S0	Can-2.7
L2403288-06	IA-DCF	S T015-SIM	AIR	DONE	U	0217	0202	S0	Can-2.7
L2403288-09	IA-WINE	S T015-SIM	AIR	DONE	U	0217	0202	S0	Can-2.7
L2403288-11	IA-YOGURT	S T015-SIM	AIR	DONE	U	0217	0202	S0	Can-2.7
WG1880236-1	MS BFB Tune Standard	S T015-SIM	AIR	DONE	U				
WG1880236-2	Continuing Calibrati	S T015-SIM	AIR	DONE	U				
WG1880236-3	Laboratory Control S	S T015-SIM	AIR	DONE	U				
WG1880236-4	Laboratory Method Bl	S T015-SIM	AIR	DONE	U				
WG1880236-5	Duplicate Sample	S T015-SIM	AIR	DONE	U				
Comments:									
L2400005-50	Use for L2403288-05								
WG1880236-5	L2400005-50								

Alpha Analytical Air Lab Instrument Run Log

ID: Airlab15
 Date: 11/20/23
 Initials: BJB

Internal Standard/Surrogate IDs: SS20-028 / SS21-026
 Internal Standard/Surrogate Volume: 100 ml
 Sequence File Name: 231120.S

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ sublist	k Ch eck Pa
1	BA15080103	TO15_SFS.qgm	R1540777.qgd	250 ML	BLANK		NA
1	TA15080101	TO15_SFS.qgm	R1540778.qgd	250 ML	TUNE		NA
9	ITO15-SIMSTD0.02	TO15_SFS.qgm	R1540779.qgd	SS23-022D 50ML	SIM ONLY	DEFAULT	NA
9	ITO15-SIMSTD0.05	TO15_SFS.qgm	R1540780.qgd	SS23-022D 100ML	SIM ONLY	DEFAULT	NA
9	ITO15-SIMSTD0.1	TO15_SFS.qgm	R1540781.qgd	SS23-022D 250ML	SIM ONLY	DEFAULT	NA
10	ITO15-SIMSTD0.2	TO15_SFS.qgm	R1540782.qgd	SS23-022C 50ML		DEFAULT	NA
10	ITO15-SIMSTD0.5	TO15_SFS.qgm	R1540783.qgd	SS23-022C 125ML		DEFAULT	NA
10	ITO15-SIMSTD1.0	TO15_SFS.qgm	R1540784.qgd	SS23-022C 250ML		DEFAULT	NA
11	ITO15-SIMSTD5.0	TO15_SFS.qgm	R1540785.qgd	SS23-022H 125ML		DEFAULT	NA
11	ITO15-SIMSTD010	TO15_SFS.qgm	R1540786.qgd	SS23-022H 250ML		DEFAULT	NA
12	ITO15-SIMSTD020	TO15_SFS.qgm	R1540787.qgd	SS23-022A 50ML		DEFAULT	NA
12	ITO15-SIMSTD050	TO15_SFS.qgm	R1540788.qgd	SS23-022A 125ML		DEFAULT	NA
12	ITO15-LLSTD100	TO15_SFS.qgm	R1540789.qgd	SS23-022A 250ML	LL ONLY	DEFAULT	NA
1	BA15080101	TO15_SFS.qgm	R1540790.qgd	250 ML			NA
1	BA150801402	TO15_SFS.qgm	R1540791.qgd	250 ML			NA
2	CTO15-LLSTD10	TO15_SFS.qgm	R1540792.qgd	SS23-020E 250ML	LL ICV	DEF ICV AP2	NA
2	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1540793.qgd	SS23-020E 125ML	SIM ICV	DEF ICV AP2	NA
2	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1540794.qgd	SS23-020E 125ML	SIM ICV	DEF ICV AP2	NA

Alpha Analytical Air Lab Instrument Run Log

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual volume analyzed (mL), nominal

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

ID: Airlab15
 Date: 01/31/24
 Initials: JFI

Internal Standard/Surrogate IDs: SS20-028 / SS21-026
 Internal Standard/Surrogate Volume: 100 ml
 Sequence File Name: 240131.S

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ sublist	ak Ch eck Pa
1	TA15013101	TO15_SFS.qgm	R1542412.qgd	SS23-020E 250ML	TUNE		NA
2	CA15013101	TO15_SFS.qgm	R1542413.qgd	SS23-020E 250ML	LL CC		NA
3	CTO15-LLSTD10	TO15_SFS.qgm	R1542414.qgd	SS23-020E 250ML	LL LCS		NA
3	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1542415.qgd	SS23-020E 125ML	SIM LCS		NA
1	BA15013101	TO15_SFS.qgm	R1542416.qgd	250mL	LL BLANK		NA
1	BA15013102	TO15_SFS.qgm	R1542417.qgd	250mL	SIM BLANK		NA
1	L2403288-02,3,250,250	TO15_SFS.qgm	R1542418.qgd	WG1880230,ICAL20574		PA BY SIM	Y
2	L2403288-04,3,250,250	TO15_SFS.qgm	R1542419.qgd	WG1880230,ICAL20574	IPA OVERCAL	PA BY SIM	Y
3	L2403288-06,3,250,250	TO15_SFS.qgm	R1542420.qgd	WG1880230,ICAL20574	IPA OVERCAL	PA BY SIM	Y
4	L2403288-09,3,250,250	TO15_SFS.qgm	R1542421.qgd	WG1880230,ICAL20574		PA BY SIM	Y
5	L2403288-11,3,250,250	TO15_SFS.qgm	R1542422.qgd	WG1880230,ICAL20574		PA BY SIM	Y
6	L2403288-01,3,250,250	TO15_SFS.qgm	R1542423.qgd	WG1880230,ICAL20574		PA	Y
7	L2403288-03,3,250,250	TO15_SFS.qgm	R1542424.qgd	WG1880230,ICAL20574		PA	Y
8	L2403288-05,3,250,250	TO15_SFS.qgm	R1542425.qgd	WG1880230,ICAL20574		PA	Y
8	L2403288-05DUP,3,250,250	TO15_SFS.qgm	R1542426.qgd	WG1880230,ICAL20574	LL (DUMMY) DUP	PA	Y
9	L2403288-07,3,250,250	TO15_SFS.qgm	R1542427.qgd	WG1880230,ICAL20574		PA	Y
10	L2403288-08,3,250,250	TO15_SFS.qgm	R1542428.qgd	WG1880230,ICAL20574		PA	Y
11	L2403288-10,3,250,250	TO15_SFS.qgm	R1542429.qgd	WG1880230,ICAL20574		PA	Y
12	L2404723-01D,3,107.02,250	TO15_SFS.qgm	R1542430.qgd	WG1880225,ICAL20574		5CHLOR	Y
13	L2404723-02D,3,116.5,250	TO15_SFS.qgm	R1542431.qgd	WG1880225,ICAL20574		5CHLOR	Y
14	L2404723-03D,3,126.72,250	TO15_SFS.qgm	R1542432.qgd	WG1880225,ICAL20574		5CHLOR	Y

15	L2404723-04D,3,109.22,250	TO15_SFS.qgm	R1542433.qgd	WG1880225,ICAL20574		5CHLOR	Y
16	L2404723-05D,3,107.02,250	TO15_SFS.qgm	R1542434.qgd	WG1880225,ICAL20574		5CHLOR	Y
1	L2404723-06D,3,109.22,250	TO15_SFS.qgm	R1542435.qgd	WG1880225,ICAL20574		5CHLOR	Y
2	L2404723-07D,3,107.26,250	TO15_SFS.qgm	R1542436.qgd	WG1880225,ICAL20574		5CHLOR	Y
3	L2404958-02D,3,110.37,250	TO15_SFS.qgm	R1542437.qgd	WG1880230,ICAL20574		DOW_55	Y
4	L2404958-01D,3,11.27,250	TO15_SFS.qgm	R1542438.qgd	WG1880230,ICAL20574	ACETONE AND NAPH OVERCAL	DOW_55	Y
4	L2404958-01D2,3,4.51,250	TO15_SFS.qgm	R1542439.qgd	WG1880230,ICAL20574	naph overcal	ACETONE AND NAPH	Y
2	L2403288-04D,3,25,250	TO15_SFS.qgm	R1542440.qgd	WG1880230,ICAL20574	do not use	IPA	Y
3	L2403288-06D,3,25,250	TO15_SFS.qgm	R1542441.qgd	WG1880230,ICAL20574		IPA	Y
4	L2404958-01D3,3,3.60,250	TO15_SFS.qgm	R1542442.qgd	WG1880230,ICAL20574		naph	Y

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume

APPENDIX C
DATA USABILITY SUMMARY REPORT – JANUARY 18, 2024

Data Validation Services

120 Cobble Creek Rd PO Box 208

North Creek, NY 12853

Phone (518) 251-4429

harry@frontiernet.net

March 28, 2024

Mark Zunich
Reliance Environmental, Inc.
235 North Duke Street
Lancaster, PA 17602

RE: Data Usability Summary Report (DUSR) of Oceanside Plaza Site Data Packages
Alpha Analytical SDG No. L2403288

Dear Mr. Zunich:

Review has been completed for the data package generated by Alpha Analytical that pertains to the analyses of air samples collected 01/18/24 at the Oceanside Plaza site. Eleven 2.7- L summa canister air samples were analyzed for volatile analytes by USEPA GC/MS method TO-15.

The data packages submitted by the laboratory contain full deliverables for validation, and this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. Full validation has not been performed. However, the reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, with guidance from the 2006 USEPA Region II validation SOP HW-31, and in consideration of the specific requirements of the analytical methodology. The following items were reviewed:

- * Data Completeness
- * Case Narrative
- * Custody Documentation
- * Holding Times
- * Internal Standard Recoveries
- * Method and Canister Blanks
- * Laboratory Duplicate Evaluation
- * Laboratory Control Samples (LCSs)
- * Instrumental Tunes
- * Initial and Continuing Calibration Standards
- * Method Compliance
- * Sample Result Verification

Those items listed above which show deficiencies are discussed within the text of this narrative. The other items were determined to be acceptable for the DUSR level of review.

In summary, sample processing was conducted in compliance with the analysis protocol. Sample results are usable either as reported or with minor qualification as estimated.

Validation qualifier definitions and client and laboratory sample identifications are attached to this text. Also included in this submission is the EDD excel file, edited to reflect validation data qualifiers.

Chain-of-Custody/Sample Receipt

Although the custody forms include lower case in two of the sample identifications, the laboratory used only upper case.

Volatile Analyses by EPA TO-15

The canister for VS-Fence was received at ambient pressure with no residual vacuum. The results for that sample have therefore been qualified as estimated, with a low bias.

Holding times were met, internal standard responses are acceptable, and instrument tunes meet fragmentation requirements. LCSs show acceptable recoveries. Method and canister blanks show no contamination.

Laboratory duplicate evaluation of VS-DCF shows acceptable correlations.

Initial and continuing calibration standard (ICV and CCV) linearity and calibration verification responses are compliant.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,



Judy Harry

Att: Validation Data Qualifier Definitions
Sample Identifications
Qualified Laboratory EDD

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
J-	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
J+	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
UJ	The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

Sample Identification Summary

Project Name: OCEANSIDE PLAZA
Project Number: BK-001

Lab Number: L2403288
Report Date: 02/14/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2403288-01	VS-FENCE	SOIL_VAPOR	Not Specified	01/18/24 16:05	01/19/24
L2403288-02	AMBIENT	AIR	Not Specified	01/18/24 16:08	01/19/24
L2403288-03	VS-DCR	SOIL_VAPOR	Not Specified	01/18/24 16:48	01/19/24
L2403288-04	IA-DCR	AIR	Not Specified	01/18/24 16:50	01/19/24
L2403288-05	VS-DCF	SOIL_VAPOR	Not Specified	01/18/24 16:52	01/19/24
L2403288-06	IA-DCF	AIR	Not Specified	01/18/24 16:54	01/19/24
L2403288-07	VS-MRE	SOIL_VAPOR	Not Specified	01/18/24 16:56	01/19/24
L2403288-08	VS-VAC	SOIL_VAPOR	Not Specified	01/18/24 18:38	01/19/24
L2403288-09	IA-WINE	AIR	Not Specified	01/18/24 18:36	01/19/24
L2403288-10	VS-BOOK	SOIL_VAPOR	Not Specified	01/18/24 18:56	01/19/24
L2403288-11	IA-YOGURT	AIR	Not Specified	01/18/24 18:58	01/19/24

APPENDIX D
SITE-INSPECTION FORM

SITE INSPECTION FORM

Date: April 27, 2024

Inspector: Michael P. Raffoni

Weather Conditions: 55 degrees, mostly cloudy

Observations	Yes	No	Comments
1. Has the site usage changed since the previous inspection?		X	
2. Are any new structures present on-site?		X	
3. Has the usage of any retail spaces changed since the previous inspection?	X		Tenant Space #1 - Metro Therapy/UrgentVet
4. Have any structures been demolished since the previous inspection?		X	
5. Is there any evidence of recent excavation activities on-site? (i.e. disturbed earth, patched pavement, etc.)		X	
6. Are any modifications evident within the Environmental Easement designated area?		X	None Identified
7. Is there any contaminant related surface staining present?	X		Typical automotive leaks/drips
8. Are there any contaminant related odors present?		X	
9. Are the stormwater drains in need of repair?		X	
10. Are the groundwater monitoring wells in need of repair?		X	MW-4 could not be located
11. Is the sub-slab depressurization system operational?	X		
12. Are the sub-slab depressurization system checklists up-to-date?	X		
13. Is the soil vapor/indoor air quality monitoring sampling events up-to-date?	X		
14. Has there been any changes to the neighboring properties?		X	

APPENDIX E
SSDS MONTHLY INSPECTION FORMS

SUB-SLAB DEPRESSURIZATION SYSTEM
INSPECTION CHECKLIST

Date: 06/29/2023 Completed By: Daniel P. O'Connor

Description	Status			Action Taken/Comments
	OK	Action Required	N/A	
A. Aboveground Piping				
1. Inspection of the aboveground piping for cracks, leaks and support issues.	✓			
2. Inspection of the vacuum/pressure gauges and flowmeters for proper operation.	✓			
B. Electrical				
1. Inspection of the electrical control panel – closed and secure.	✓			
C. Blower Enclosure				
1. Inspection of the exhaust fan, thermostat and louver.			✓	
D. 60-Gallon Knock-Out Tank				
1. Inspection of the vacuum filter.			✓	
2. Inspection of the dilution valve.			✓	
3. Inspection of the knock-out tank for water.			✓	
E. Vapor Phase Carbon Units				
1. Inspection of the pressure gauges.			✓	
2. Inspection of the piping and fittings for any leaks.			✓	

November 2013
NYSDEC Site Number: C130158

Completed By: Daniel P. O'Connor

Date: 06/29/2023

[illegible]

**SUB-SLAB DEPRESSURIZATION SYSTEM
OPERATING LOG**

Source of Reading	Units	Values	Comments
Vacuum at Suction Piping (inside store)	Inches of Water	NA	
VS-DCF (front of dry cleaner store)	Inches of Water	- 0.141	
VS-MRE (middle of dry cleaner store)	Inches of Water	- 2.690	
VS-DCF (rear of dry cleaner store)	Inches of Water	- 0.037	
VS-Book (inside bookstore)	Inches of Water	- 0.028	
VS-VAC (inside wine store)	Inches of Water	- 1.104	
VS-Fence (exterior soil vapor port behind dry cleaner)	Inches of Water	- 0.018	
Knock-Out Tank Vacuum	Inches of Water	NA	
Blower Inlet Vacuum	Inches of Water	NA	
Blower Discharge Pressure	Inches of Water	NA	
Blower Effluent PID reading	PPMV	NA	
VPGAC Unit Effluent PID Reading	PPMV	NA	

Is the System operating within the acceptable conditions?
If no, was the condition corrected and how?

yes

Form Completed By: Daniel P. O'Connor

Signature: 

Date & Time: 06/29/2013
11:45 am

**SUB-SLAB DEPRESSURIZATION SYSTEM
INSPECTION CHECKLIST**

Date: 07/31/23 Completed By: Daniel P. O'Connor

Description	Status			Action Taken/Comments
	OK	Action Required	N/A	
A. Aboveground Piping				
1. Inspection of the aboveground piping for cracks, leaks and support issues.	✓			
2. Inspection of the vacuum/pressure gauges and flowmeters for proper operation.	✓			
B. Electrical				
1. Inspection of the electrical control panel – closed and secure.	✓			
C. Blower Enclosure				
1. Inspection of the exhaust fan, thermostat and louver.			✓	
D. 60-Gallon Knock-Out Tank				
1. Inspection of the vacuum filter.			✓	
2. Inspection of the dilution valve.			✓	
3. Inspection of the knock-out tank for water.			✓	
E. Vapor Phase Carbon Units				
1. Inspection of the pressure gauges.			✓	
2. Inspection of the piping and fittings for any leaks.			✓	

Date: 07/31/23
Completed By: Daniel P. O'Connell

[illegible]

**SUB-SLAB DEPRESSURIZATION SYSTEM
OPERATING LOG**

Source of Reading	Units	Values	Comments
Vacuum at Suction Piping (inside store)	Inches of Water	NA	
VS-DCF (front of dry cleaner store)	Inches of Water	- 0.150	
VS-MRE (middle of dry cleaner store)	Inches of Water	- 2.741	
VS-DCF (rear of dry cleaner store)	Inches of Water	- 0.039	
VS-Book (inside bookstore)	Inches of Water	- 0.030	
VS-VAC (inside wine store)	Inches of Water	- 1.125	
VS-Fence (exterior soil vapor port behind dry cleaner)	Inches of Water	- 2.468	
Knock-Out Tank Vacuum	Inches of Water	NA	
Blower Inlet Vacuum	Inches of Water	NA	
Blower Discharge Pressure	Inches of Water	NA	
Blower Effluent PID reading	PPMV	NA	
VPGAC Unit Effluent PID Reading	PPMV	NA	

Is the System operating within the acceptable conditions?
If no, was the condition corrected and how?

yes

Form Completed By: Daniel P. O'Leary

Signature: _____

Date & Time: 07/31/23
2:00 pm

SUB-SLAB DEPRESSURIZATION SYSTEM
INSPECTION CHECKLIST

Date: 08/22/2023 Completed By: Daniel O'Connor

Description	Status			Action Taken/Comments
	OK	Action Required	N/A	
A. Aboveground Piping				
1. Inspection of the aboveground piping for cracks, leaks and support issues.	✓			
2. Inspection of the vacuum/pressure gauges and flowmeters for proper operation.	✓			
B. Electrical				
1. Inspection of the electrical control panel – closed and secure.	✓			
C. Blower Enclosure				
1. Inspection of the exhaust fan, thermostat and louver.			✓	
D. 60-Gallon Knock-Out Tank				
1. Inspection of the vacuum filter.			✓	
2. Inspection of the dilution valve.			✓	
3. Inspection of the knock-out tank for water.			✓	
E. Vapor Phase Carbon Units				
1. Inspection of the pressure gauges.			✓	
2. Inspection of the piping and fittings for any leaks.			✓	

November 2013
NYSDEC Site Number: C130158

Completed By: Daniel O'Connor

Date: 08/22/2023

[illegible]

**SUB-SLAB DEPRESSURIZATION SYSTEM
OPERATING LOG**

Source of Reading	Units	Values	Comments
Vacuum at Suction Piping (inside store)	Inches of Water	NA	
VS-DCF (front of dry cleaner store)	Inches of Water	- 0.146	
VS-MRE (middle of dry cleaner store)	Inches of Water	- 2.748	
VS-DCF (rear of dry cleaner store)	Inches of Water	- 0.039	
VS-Book (inside bookstore)	Inches of Water	- 0.030	
VS-VAC (inside wine store)	Inches of Water	- 1.127	
VS-Fence (exterior soil vapor port behind dry cleaner)	Inches of Water	- 0.018	
Knock-Out Tank Vacuum	Inches of Water	NA	
Blower Inlet Vacuum	Inches of Water	NA	
Blower Discharge Pressure	Inches of Water	NA	
Blower Effluent PID reading	PPMV	NA	
VPGAC Unit Effluent PID Reading	PPMV	NA	

Is the System operating within the acceptable conditions?
If no, was the condition corrected and how?

yes

Form Completed By: Daniel V. Vano

Signature: [Signature]

Date & Time: 8/22/23 1:15pm

**SUB-SLAB DEPRESSURIZATION SYSTEM
INSPECTION CHECKLIST**

Date: 09/20/23 Completed By: Daniel P. O'Connor

Description	Status			Action Taken/Comments
	OK	Action Required	N/A	
A. Aboveground Piping				
1. Inspection of the aboveground piping for cracks, leaks and support issues.	✓			
2. Inspection of the vacuum/pressure gauges and flowmeters for proper operation.	✓			
B. Electrical				
1. Inspection of the electrical control panel – closed and secure.	✓			
C. Blower Enclosure				
1. Inspection of the exhaust fan, thermostat and louver.			✓	
D. 60-Gallon Knock-Out Tank				
1. Inspection of the vacuum filter.			✓	
2. Inspection of the dilution valve.			✓	
3. Inspection of the knock-out tank for water.			✓	
E. Vapor Phase Carbon Units				
1. Inspection of the pressure gauges.			✓	
2. Inspection of the piping and fittings for any leaks.			✓	

Date: _____

Completed By: _____

[illegible]

**SUB-SLAB DEPRESSURIZATION SYSTEM
OPERATING LOG**

Source of Reading	Units	Values	Comments
Vacuum at Suction Piping (inside store)	Inches of Water	N/A	
VS-DCF (front of dry cleaner store)	Inches of Water	-0.120	
VS-MRE (middle of dry cleaner store)	Inches of Water	-2.768	
VS-DCF (rear of dry cleaner store)	Inches of Water	-0.037	
VS-Book (inside bookstore)	Inches of Water	-0.027	
VS-VAC (inside wine store)	Inches of Water	~~-0.027~~ -1.127	
VS-Fence (exterior soil vapor port behind dry cleaner)	Inches of Water	-0.021	
Knock-Out Tank Vacuum	Inches of Water	N/A	
Blower Inlet Vacuum	Inches of Water		
Blower Discharge Pressure	Inches of Water		
Blower Effluent PID reading	PPMV		
VPGAC Unit Effluent PID Reading	PPMV		

Is the System operating within the acceptable conditions?
If no, was the condition corrected and how?

yes

Form Completed By: Daniel P. O'Leary

Signature: [Signature]

Date & Time: 09/20/23
12:30pm

**SUB-SLAB DEPRESSURIZATION SYSTEM
INSPECTION CHECKLIST**

Date: 10/31/2023 Completed By: Daniel O'Connor

Description	Status			Action Taken/Comments
	OK	Action Required	N/A	
A. Aboveground Piping				
1. Inspection of the aboveground piping for cracks, leaks and support issues.	✓			
2. Inspection of the vacuum/pressure gauges and flowmeters for proper operation.	✓			
B. Electrical				
1. Inspection of the electrical control panel – closed and secure.	✓			
C. Blower Enclosure				
1. Inspection of the exhaust fan, thermostat and louver.			✓	
D. 60-Gallon Knock-Out Tank				
1. Inspection of the vacuum filter.			✓	
2. Inspection of the dilution valve.			✓	
3. Inspection of the knock-out tank for water.			✓	
E. Vapor Phase Carbon Units				
1. Inspection of the pressure gauges.			✓	
2. Inspection of the piping and fittings for any leaks.			✓	

November 2013
NYSDEC Site Number: C130158

Date: 10/31/2023
Completed By: Daniel O'Connell

[illegible]

**SUB-SLAB DEPRESSURIZATION SYSTEM
OPERATING LOG**

Source of Reading	Units	Values	Comments
Vacuum at Suction Piping (inside store)	Inches of Water	NA	
VS-DCF (front of dry cleaner store)	Inches of Water	-0.106	
VS-MRE (middle of dry cleaner store)	Inches of Water	-1.682	
VS-DCF (rear of dry cleaner store)	Inches of Water	-0.024	
VS-Book (inside bookstore)	Inches of Water	-0.028	
VS-VAC (inside wine store)	Inches of Water	-1.069	
VS-Fence (exterior soil vapor port behind dry cleaner)	Inches of Water	-0.019	
Knock-Out Tank Vacuum	Inches of Water	NA	
Blower Inlet Vacuum	Inches of Water		
Blower Discharge Pressure	Inches of Water		
Blower Effluent PID reading	PPMV		
VPGAC Unit Effluent PID Reading	PPMV		

Is the System operating within the acceptable conditions?
If no, was the condition corrected and how?

yes

Form Completed By: Daniel O'Connor

Signature: [Signature]

Date & Time: 10/31/2023 4:30pm

SUB-SLAB DEPRESSURIZATION SYSTEM
INSPECTION CHECKLIST

Date: 11/08/2023 Completed By: Daniel O'Connor

Description	Status			Action Taken/Comments
	OK	Action Required	N/A	
A. Aboveground Piping				
1. Inspection of the aboveground piping for cracks, leaks and support issues.	✓			
2. Inspection of the vacuum/pressure gauges and flowmeters for proper operation.	✓			
B. Electrical				
1. Inspection of the electrical control panel – closed and secure.	✓			
C. Blower Enclosure				
1. Inspection of the exhaust fan, thermostat and louver.			✓	
D. 60-Gallon Knock-Out Tank				
1. Inspection of the vacuum filter.			✓	
2. Inspection of the dilution valve.			✓	
3. Inspection of the knock-out tank for water.			✓	
E. Vapor Phase Carbon Units				
1. Inspection of the pressure gauges.			✓	
2. Inspection of the piping and fittings for any leaks.			✓	

Date: _____

Completed By: _____

[illegible]

**SUB-SLAB DEPRESSURIZATION SYSTEM
OPERATING LOG**

Source of Reading	Units	Values	Comments
Vacuum at Suction Piping (inside store)	Inches of Water	NA	
VS-DCF (front of dry cleaner store)	Inches of Water	-0.088	
VS-MRE (middle of dry cleaner store)	Inches of Water	-0.965	
VS-DCF (rear of dry cleaner store)	Inches of Water	-0.019	
VS-Book (inside bookstore)	Inches of Water	-0.015	
VS-VAC (inside wine store)	Inches of Water	-0.959	
VS-Fence (exterior soil vapor port behind dry cleaner)	Inches of Water	-0.018	
Knock-Out Tank Vacuum	Inches of Water	NA	
Blower Inlet Vacuum	Inches of Water	NA	
Blower Discharge Pressure	Inches of Water	NA	
Blower Effluent PID reading	PPMV	NA	
VPGAC Unit Effluent PID Reading	PPMV	NA	

Is the System operating within the acceptable conditions?
If no, was the condition corrected and how?

yes

Form Completed By: Daniel O'Connell

Signature: 

Date & Time: 11/08/13 12:40pm

SUB-SLAB DEPRESSURIZATION SYSTEM
INSPECTION CHECKLIST

Date: 05/02/2024 Completed By: Daniel O'Connor

Description	Status			Action Taken/Comments
	OK	Action Required	N/A	
A. Aboveground Piping				
1. Inspection of the aboveground piping for cracks, leaks and support issues.	✓			
2. Inspection of the vacuum/pressure gauges and flowmeters for proper operation.	✓			
B. Electrical				
1. Inspection of the electrical control panel – closed and secure.	✓			
C. Blower Enclosure				
1. Inspection of the exhaust fan, thermostat and louver.			✓	
D. 60-Gallon Knock-Out Tank				
1. Inspection of the vacuum filter.			✓	
2. Inspection of the dilution valve.			✓	
3. Inspection of the knock-out tank for water.			✓	
E. Vapor Phase Carbon Units				
1. Inspection of the pressure gauges.			✓	
2. Inspection of the piping and fittings for any leaks.			✓	

Date: _____

Completed By: _____

[illegible]

**SUB-SLAB DEPRESSURIZATION SYSTEM
OPERATING LOG**

Source of Reading	Units	Values	Comments
Vacuum at Suction Piping (inside store)	Inches of Water	NA	
VS-DCF (front of dry cleaner store)	Inches of Water	0.001	
VS-MRE (middle of dry cleaner store)	Inches of Water	-0.003	
VS-DCF (rear of dry cleaner store)	Inches of Water	0.001	
VS-Book (inside bookstore)	Inches of Water	0.000	
VS-VAC (inside wine store)	Inches of Water	-0.006	
VS-Fence (exterior soil vapor port behind dry cleaner)	Inches of Water	-0.135	
Knock-Out Tank Vacuum	Inches of Water	NA	
Blower Inlet Vacuum	Inches of Water	NA	
Blower Discharge Pressure	Inches of Water	NA	
Blower Effluent PID reading	PPMV	NA	
VPGAC Unit Effluent PID Reading	PPMV	NA	

Is the System operating within the acceptable conditions?
If no, was the condition corrected and how?

yes

Form Completed By: Daniel O'Connell

Signature: 

Date & Time: 05/02/24
12:35pm