NEWTOWN CREEK BUD SITE – NORTH BLOCK

2-21 MALT DRIVE, LONG ISLAND CITY
QUEENS, NEW YORK

DRAFT Indoor Air Quality Report

NYSDEC BCP Site No: C241248
AKRF Project Number: 200112

Prepared for:

Bud North LLC
387 Park Ave South, 7th Floor
New York, New York 10016

Prepared by:

AKRF, Inc.
440 Park Avenue South, 7th Floor
New York, New York 10016
(212) 696-0670

JULY 2024

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1.0 CERTIFICATION

I, Rebecca Kinal, P.E., certify that I am currently a New York State registered Professional Engineer as defined in 6 NYCRR Part 375 and that this Indoor Air Quality Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

Rebecca Kinal, P.E.	DRAFT	07/25/2024
Name	Signature	Date

2.0 INTRODUCTION

This Indoor Air Quality (IAQ) Report describes the procedures and results of the pre-occupancy indoor air quality assessment performed at the Newtown Creek Bud Site (NCBS) – North Block project site, located at 2-21 Malt Drive in Long Island City, Queens, New York (hereinafter referred to as the "Site"). The Site, which is identified on the New York City Tax Map as Queens Borough Block 11, Lot 1, was remediated under the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP Site No. C241248). The Site location is presented as Figure 1.

This IAQ Report describes the procedures that were used during the IAQ assessment, which included collection of indoor and ambient air samples to confirm the effectiveness of the sub-slab depressurization system (SSDS) and soil vapor extraction (SVE) system at preventing contaminated vapors from entering the Site building, and documents the results of the assessment, including an evaluation of the samples collected from the Site in comparison to the New York State Department of Health (NYSDOH) Air Guidance Values (AGVs) and background conditions. All work was completed in accordance with the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York (2006), with updates (SVI Guidance), the NYSDEC-approved IAQ Work Plan, dated May 2024, and the associated Quality Assurance Project Plan (QAPP) (IAQ Work Plan Appendix A) and the Health and Safety Plan (HASP) (IAQ Work Plan Appendix B).

3.0 SITE DESCRIPTION AND HISTORY

3.1 Site Description and Surrounding Land Use

The Site is bounded to the north by 54th Avenue, followed by various shipping and storage warehouses (including construction supplies, and iron and wireworks); to the west by 2nd Street, followed by a construction site; to the south by the NCBS – South Block site (currently under construction), followed by Newtown Creek; and to the east by a van and bus rental facility, followed by an air conditioning supplies and parts warehouse. The surrounding area is predominately mixed-use residential and commercial, with some industrial uses. The Site consists of a multi-story, mixed-use commercial and residential building that is currently under construction. The Site is zoned residential with a commercial overlay and is part of the Special Southern Hunters Point District, allowing for additional development of high density residential mixed-use projects, a public park, and waterfront open space. The current Site occupants include construction workers and inspectors. Once the new building is complete, occupants will include residents, building staff and maintenance crews, and commercial tenants. The Site location is shown on Figure 1.

3.2 Site Geology, Hydrogeology, and Subsurface Characteristics

The surface topography in the area immediately surrounding the Site generally slopes south-southwest towards Newtown Creek and the East River. According to a topographic and boundary survey prepared by Fehringer Surveying, P.C., dated June 6, 2019 (revised April 23, 2021), the ground surface elevation in sidewalk-adjacent areas of the Site is between approximately 6 and 7 feet above the North American Vertical Datum of 1988 (NAVD88).

Based on the investigations conducted at the Site prior to redevelopment, subsurface conditions consisted of historic fill (generally sand with silt, gravel, concrete, brick, and trace amounts of asphalt) down to approximately 10 to 13 feet below grade surface (bgs), underlain by apparent native sand, gravel, and silt, with trace amounts of clay down to approximately 20 feet bgs (the maximum soil boring depth). Bedrock was not encountered during AKRF's previous investigation. As part of Site remediation, remedial excavation was conducted to depths between 2 and 11 feet bgs across the Site. Following excavation, NYSDEC-approved fill material was imported and used as backfill to bring the Site grade to the slab elevation for the new building. Based upon pre-remedial investigations performed by AKRF, Inc. (AKRF), the groundwater elevation ranges between elevation (el.) 0.76 feet and el. 0.34 feet above the North American Vertical Datum of 1988 (NAVD88), based on measurements taken from six on-site permanent monitoring wells installed as part of the RI. Groundwater in this part of Queens is not used as a source of potable water.

3.3 Site History

AKRF's March 2019 Phase I Site Assessment indicated that the property that includes the Site was developed since at least the 1890s with industrial uses, including New York Sugar Refining Co., C. Hommel Stone Yard, The White Granite Co., and H.F. Burrough's Lumber Yard. Auto repair and garages with gasoline tanks were identified in the northern portion of the Site between 1915 and 1986. By 1970, Standard Folding Cartons Inc. occupied a warehouse in the central portion of the Site and continued to do so up until approximately 1991, when it was shown as a warehouse of unspecified use. Solvent tanks were identified in the southern-adjacent site (the South Block site) between 1977 and 1986. The northern portion of the Site was primarily occupied by parking and storage areas in the late 1980s through 2006.

The Site was remediated between March 2022 and October 2023 under an NYSDEC-approved Remedial Action Work Plan (RAWP). The RAWP included remedial excavation, groundwater treatment, and construction of Engineering Controls (ECs), including a site-wide cover system, and

an active sub-slab depressurization system (SSDS) and soil vapor extraction (SVE) system within the new building. Following implementation of the RAWP, a Site Management Plan (SMP) and Final Engineering Report (FER), both dated December 2023, were prepared and submitted for review by NYSDEC and NYSDOH. The FER and SMP were approved and a Certificate of Completion was issued on December 29, 2023.

4.0 FIELD PROGRAM

The SMP requires IAQ sampling within the newly constructed building envelope prior to building occupancy and/or during the first heating season to confirm that operation of the SSDS and SVE systems are effective in mitigating potential vapor intrusion within the new building. Based on the timing of first occupancy, planned for August 2024, two IAQ sampling events will be completed at the Site. The first of two required indoor air sampling events was conducted within the building between June 10 and 11, 2024. As part of the sampling event, completion of the building envelope was verified and documented. Prior to sampling, all windows, doors, and other openings were sealed and airtight to the extent possible; the sampling areas were selected that were free of active construction and associated materials to the extent possible; and the building's HVAC system was operational. The second sampling event will be conducted during the first heating season after building completion (anticipated in January 2025).

Indoor air sampling was conducted from eight locations (IA-01 through IA-08) and one ambient (outdoor) air sample (AA-01) was collected for Quality Assurance/Quality Control (QA/QC) purposes and to document background conditions. The sampling locations are summarized in Figure 2. The indoor air and ambient air samples were collected via 6-liter Summa Canisters over a 24-hour period. Daily summary reports were submitted to NYSDEC for each day of field work, which are included as Appendix A. The samples were submitted to Pace Analytical Laboratory of Somerset, NJ (Pace), an NYSDOH Environmental Laboratory Program (ELAP)-certified laboratory for analysis of volatile organic compounds (VOCs) by Environmental Protection Agency (EPA) Method TO-15.

4.1 Pre-Sampling Inventory

A pre-sampling inventory was conducted prior to implementation of the indoor air sampling to document site conditions during sampling and to identify potential interfering sources of VOCs in the vicinity of the sampling locations. While no VOCs were detected in the sampled areas when field screened with a calibrated photoionization detector (PID), a light chemical-like odor, possibly related to recent painting or application of adhesives for building finishes, was observed in the first-floor residential lobby and the low-rise elevator service room (both near sample location IA-02). The findings of the pre-sampling inventory are documented on a NYSDOH Indoor Air Quality Questionnaire and Building Inventory Form (Appendix B).

The sampled spaces appeared to be in generally good condition with no active leaks observed from any of the stored compounds. However, construction in the building is ongoing, so it is possible that inventoried compounds, or other compounds not observed during the pre-sampling inventory, may have been utilized within the first floor of the building prior to commencement of the indoor air assessment.

4.2 Indoor Air Sampling

Indoor air samples IA-01 through IA-08 were collected from the breathing zone (approximately 3 to 4 feet above the floor) using batch-certified, 6-Liter SUMMA® canisters equipped with vacuum gauges and flow controllers calibrated to collect the samples over an approximately 24-hour period. Immediately after opening the flow control valve, the initial SUMMA® canister vacuum (in. Hg) was noted in each canister. After approximately 24 hours, the flow controller valves were closed, the final vacuum was noted, and the SUMMA® canisters were placed in a shipping carton for delivery to the laboratory. The sampling logs are included in Appendix C, and a photographic log of the sampling event is included in Appendix D. The sampling locations and rationale are summarized in Table 1 below:

Table 1 – Indoor Air Sampling Rationale

Sample ID	Sample Location	Sampling Rationale
IA-01	Incoming Water Room	Assess indoor air quality in the northwestern portion of building
IA-02	Back of House Vestibule	Assess indoor air quality in the southwestern portion of building
IA-03	Bike Room (west)	Assess indoor air quality in the north-central portion of building
IA-04	Parking Garage	Assess indoor air quality in the central portion of building
IA-05	Package Room	Assess indoor air quality in the south-central portion of building
IA-06	Bike Room (east)	Assess indoor air quality in the northeastern portion of building
IA-07	SVE Equipment Room	Assess indoor air quality in the eastern-central portion of building
IA-08	Service Vestibule No. 2	Assess indoor air quality in the southeastern portion of building

The indoor air quality sample locations were selected based on accessibility of spaces, and to maximize distribution throughout the first floor of the new building.

4.3 Ambient Air Sampling

One ambient (outdoor) air sample was collected from an exterior location immediately east of the building as shown on Figure 2. The ambient air sample was collected concurrently with the indoor air samples using a batch-certified 6-Liter SUMMA® canister equipped with a vacuum gauge and flow controller calibrated to collect the sample over an approximately 24-hour period. The SUMMA® canister was placed at typical breathing zone height (approximately 3 to 4 feet above the ground) during collection. Immediately after opening the flow control valve, the initial SUMMA® canister vacuum (in. Hg) was noted. Conditions were noted throughout the sampling period, including vacuum of the canisters and potential sources of VOCs in the vicinity of the sampling locations. After approximately 24 hours, the flow controller valve was closed, the final vacuum was noted, and the SUMMA® canister was placed in a shipping carton for delivery to the laboratory. The ambient air sample log is included in Appendix C.

4.4 Laboratory Analysis

Samples were shipped to the laboratory with a chain of custody. The indoor air and ambient air samples were analyzed for VOCs by EPA Method TO-15 by Pace with Category B deliverables, and the laboratory results were validated by Jeri Rossi of Cranford, NJ, a third-party validator, prior to electronic data deliverable (EDD) submission to NYSDEC via EQuIS™. The laboratory analytical report and Data Usability Summary Report (DUSR) are included in Appendix E.

5.0 ANALYTICAL RESULTS AND RECOMMENDATIONS

5.1 Indoor and Ambient Air Analytical Results

Twenty-six VOCs were detected in one or more of the samples. A summary of the results is presented below:

- The maximum VOC concentration was detected in indoor air sample IA-01_20240611 (4,250 µg/m^3 detection of 2-butanone). The chemical 2-butanone (a.k.a. methyl ethyl ketone), along with ethanol and isopropanol, which were also detected at elevated concentrations in the indoor air samples, (maximum concentrations of 2,110 µg/m^3 and 68.1 µg/m^3, respectively) were not chemicals of concern (CoCs) during implementation of the RAWP. Furthermore, these compounds are commonly used in construction-related glues, paint thinners, and solvents, as well as cleaning products, and therefore, the elevated concentrations are likely related to construction activities within the building.
- Petroleum-related VOCs, including 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and benzene, toluene, ethylbenzene, and xylenes (collectively referred to as BTEX), were detected in the indoor air samples at variable concentrations. Sample IA-02_20240611 had higher concentrations of 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and BTEX, which are likely attributable to the use of products such as paints and coatings associated with ongoing construction activities within the building near this sample location.
- The chlorinated solvents carbon tetrachloride and tetrachloroethylene (PCE) were detected in one or more of the samples, including the ambient air sample. Carbon tetrachloride was detected at concentrations ranging from 0.39 µg/m^3 in sample IA-02_20240611 to 0.428 µg/m^3 in ambient air sample AA-01_20240611 and indoor air samples IA-05 and IA-07. PCE was detected at concentrations ranging from 0.168 µg/m^3 in sample IA-05_20240611 to 4.12 µg/m^3 in sample IA-08_20240611. The detections of PCE in indoor and ambient air samples were well below the NYSDOH AGV for PCE of 30 µg/m^3.
- Freon-12 (a.k.a. dichlorodifluoromethane), which was detected at elevated concentrations in soil vapor, indoor air, and ambient air samples collected from the Site prior to implementation of the RAWP, was detected in all of the indoor air samples at low concentrations (approximately 2 µg/m^3), which is consistent with background (ambient air) concentrations at the Site. The concentrations of Freon-12 were well below the range of detections prior to implementation of the RAWP.

The pre-sampling inventory, described in Section 4.1, identified some compounds stored in sealed containers within the sampled spaces, which were closed and did not appear to be leaking. However, it is possible that these compounds, or others that were not observed during the pre-sampling inventory, were still present within indoor air within the first floor of the building during the indoor air assessment (e.g., due to off-gassing of paints and adhesives used during interior building construction activities). The indoor air sample results are summarized in attached Table 1, and the laboratory analytical report is provided as Appendix E.

5.2 Conclusions and Recommendations

An indoor air quality assessment, which included collection of eight indoor air samples and one ambient air sample, was conducted at the Site between June 10 and 11, 2024. A pre-sampling inventory identified potential interfering sources of VOCs in the vicinity of the sampling locations. While no VOCs were detected with a PID in the sampled areas, a light chemical-like odor was observed in the first-floor residential lobby and the low-rise elevator service room. The sampled spaces appeared to be in generally good condition with no active leaks observed from any of the

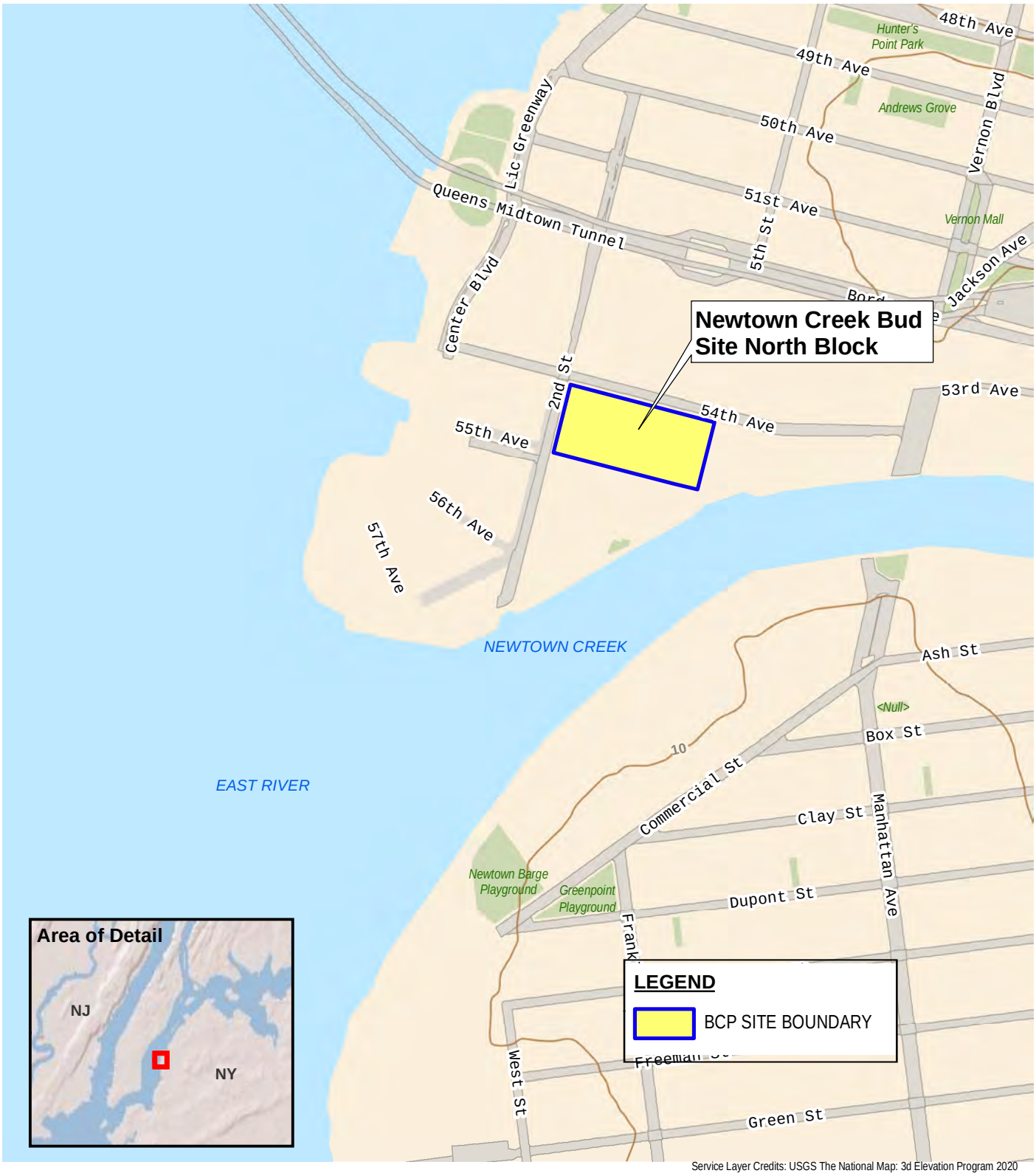
stored compounds. However, construction in the building is ongoing, so it is possible that the observed compounds, or other compounds (i.e. glues, paint thinners, solvents, cleaning products, etc.) not observed during the indoor assessment, may have been utilized within the first floor of the building prior to commencement of the indoor air assessment.

The analytical results indicated that some VOCs were detected in indoor at the Site, which were likely attributable to ongoing construction activities at the Site. PCE was detected at concentrations that were well below the NYSDOH AGV of 30 µg/m^3, and Freon-12 was detected at low levels consistent with background conditions at the Site.

Based on the analytical results, the following is recommended:

- A second indoor air quality sampling event is required during the upcoming heating season, which will likely occur in January 2025. Construction of the first floor of the building is expected to have been fully complete by January 2025, and the results of this sampling event will be confirmed during the heating season sampling event.
- Operation of the SSDS and SVE system should continue, and the systems should be inspected on a periodic basis in accordance with the SMP.
- At this time, the Volunteer is preparing to apply to the New York City Department of Buildings (NYCDOB) for a temporary certificate of occupancy (TCO) to partially occupy the residential portion of the building. We are requesting NYSDOH concurrence to allow occupation of the building contingent upon the measures described above (i.e., continued operation of the SSDS and SVE and completion of the second round of indoor air sampling during the upcoming heating season).

FIGURES



AKRF

440 Park Avenue South, New York, NY 10016

Newtown Creek Bud Site - North Block

2-10 54th Avenue - Long Island City, New York

BCP SITE LOCATION

DATE
11/29/2021

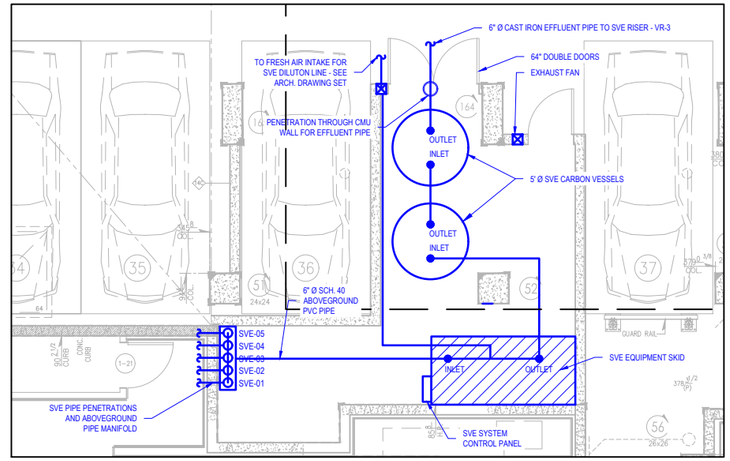
PROJECT NO.
200112

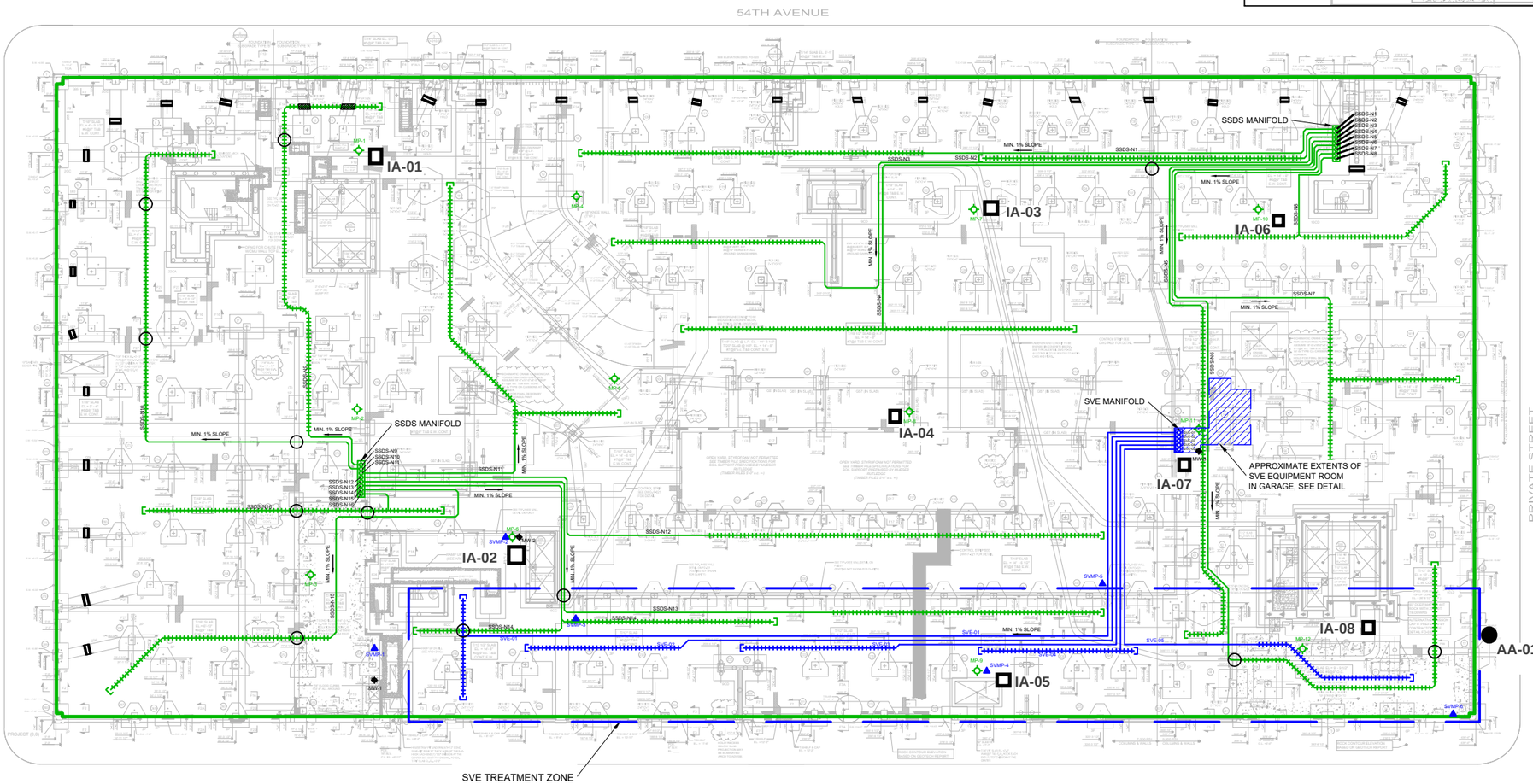
FIGURE
1

SVE EQUIPMENT ROOM LAYOUT

0 5 10 20

SCALE IN FEET





LEGEND

- SSDS TREATMENT ZONE (EXTENT OF WATERPROOFING/ VAPOR BARRIER/GAS-PERMEABLE AGGREGATE
- SVE TREATMENT ZONE
- SSDS COMMUNICATION SLEEVE THROUGH GRADE BEAM
- SSDS PIPE SLEEVE THROUGH GRADE BEAM
- SVE 4" Ø SLOTTED SCHEDULE 40 PVC PIPE WITH PVC END CAP
- SSDS 4" Ø SLOTTED SCHEDULE 40 PVC PIPE WITH PVC END CAP
- SSDS/SVE 4" Ø SOLID SCHEDULE 40 PVC PIPE
- SSDS PIPE ELEVATION CHANGE
- SSDS/SVE PIPING MANIFOLD
- SVE-01/SSDS-N8 SSDS/SVE 4" Ø RISER SLAB PENETRATION
- MP-1 SSDS VACUUM MONITORING POINT
- SVMP-1 SVE VACUUM MONITORING POINT
- MW-1 POST-REMEDIAL GROUNDWATER MONITORINDOOR
- IA-01 AIR SAMPING LOCATION
- AA-01 AMBIENT AIR SAMPLING LOCATION

0 20 40 80

SCALE IN FEET

NOTE: PIPE SPACING NOT TO SCALE

AKRF

440 Park Avenue South, New York, NY 10016

Newtown Creek Bud Site - North Block

2-21 Malt Drive - Long Island City, New York

SVE, SSDS AND VAPOR BARRIER PLAN AND INDOOR AIR QUALITY SAMPLING LOCATIONS

DATE
2/27/2024

PROJECT NO.
200112

FIGURE
2

APPENDIX A
DAILY REPORTS

Daily Activity Report

Newtown Creek Bud Site - North Block
2-10 54th Avenue, Long Island City, New York
BCP No. C241248

General Site Information

Date:	Monday, June 10, 2024
Weather:	75 ^{o}F, Partly cloudy
Wind Direction/Speed:	SW @ 7 mph
AKRF Personnel on Site:	Kristen O'Neill
AKRF Equipment on Site:	Mini RAE 3000 Photoionization Detector (PID)

Contractor Information

Contracting Company	Main Personnel	Equipment
Bud North GC LLC	Chris Steinmann	None.

Description and Location of Work Activities Performed

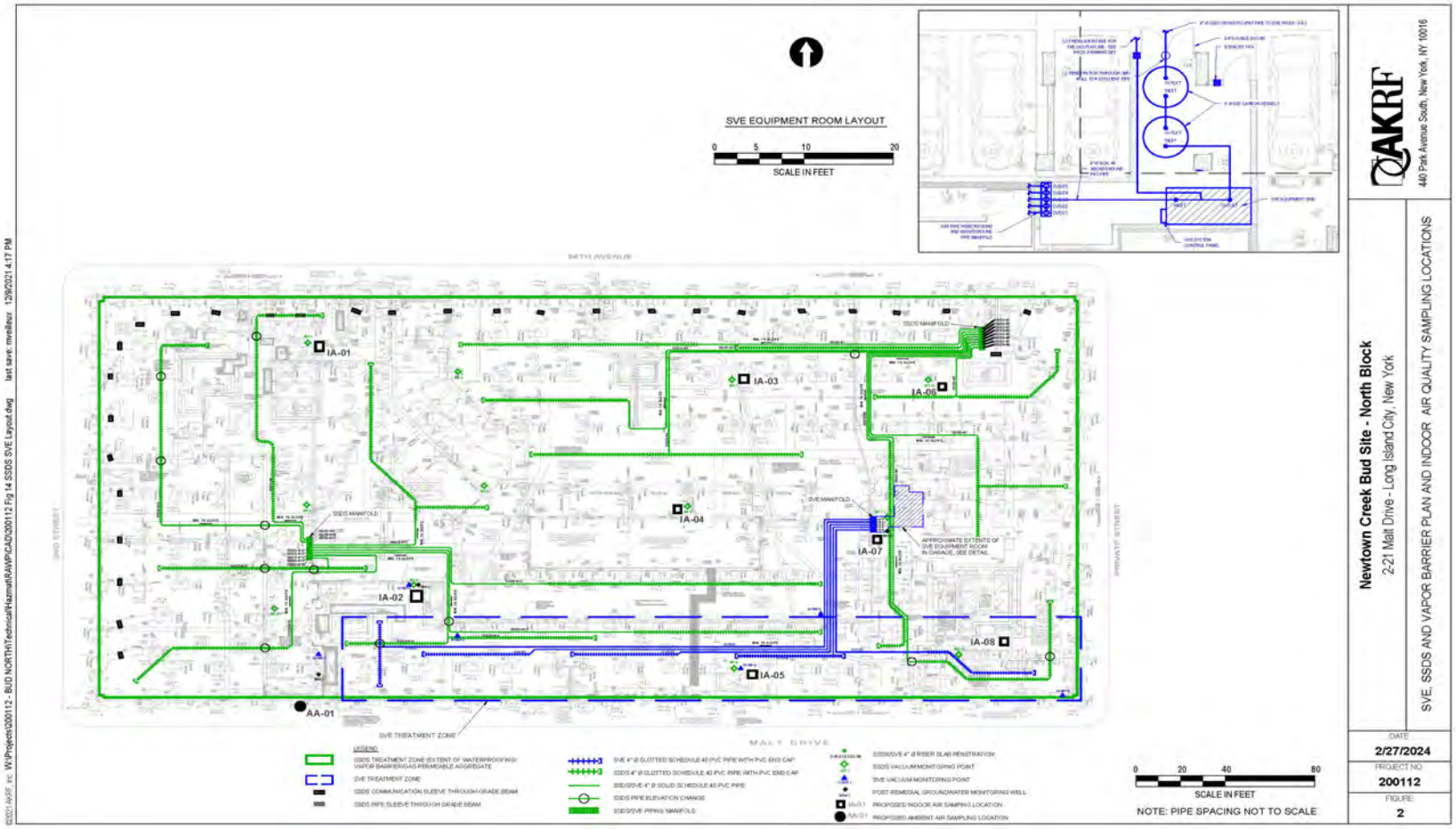
- AKRF setup 6 Liter vapor sampling canisters in 8 sample locations (IA-01 through IA-08) and one ambient air canister (AA-01) outside of the building, and commenced sample collection between 14:02 and 14:33.

- AKRF inspected each sampling space and recorded findings in a New York State Department of Health (NYSDOH) questionnaire.

Additional Information

Planned Work Activity for Following Day/Week:	Complete indoor air sampling overnight and close and remove canisters tomorrow (6/11/2024).
Comments:	

Site Map


SVE EQUIPMENT ROOM LAYOUT
0 5 10 20
SCALE IN FEET
IA-01
IA-02
IA-03
IA-04
IA-05
IA-06
IA-07
IA-08
AA-01
SSDS MANIFOLD
SVE MANIFOLD
APPROXIMATE EXTENTS OF SVE EQUIPMENT ROOM IN GARAGE, SEE DETAIL
SVE TREATMENT ZONE
MALT DRIVE
0 20 40 80
SCALE IN FEET
NOTE: PIPE SPACING NOT TO SCALE
AKRF
440 Park Avenue South, New York, NY 10016
Newtown Creek Bud Site - North Block
2-21 Malt Drive - Long Island City, New York
SVE, SSDS AND VAPOR BARRIER PLAN AND INDOOR AIR QUALITY SAMPLING LOCATIONS
DATE
2/27/2024
PROJECT NO.
200112
FIGURE
2

Site Photographs	
Photograph 1 - Indoor Air Sample IA-01, view facing north.	
Photograph 2 - Supplies stored near a sampling location.	

Daily Activity Report

Newtown Creek Bud Site - North Block
2-10 54th Avenue, Long Island City, New York
BCP No. C241248

General Site Information

Date:	Tuesday, June 11, 2024
Weather:	75 ^{o}F, Partly cloudy
Wind Direction/Speed:	SW @ 7 mph
AKRF Personnel on Site:	Kristen O'Neill
AKRF Equipment on Site:	Mini RAE 3000 Photoionization Detector (PID)

Contractor Information

Contracting Company	Main Personnel	Equipment
Bud North GC LLC	Chris Steinmann	None.

Description and Location of Work Activities Performed

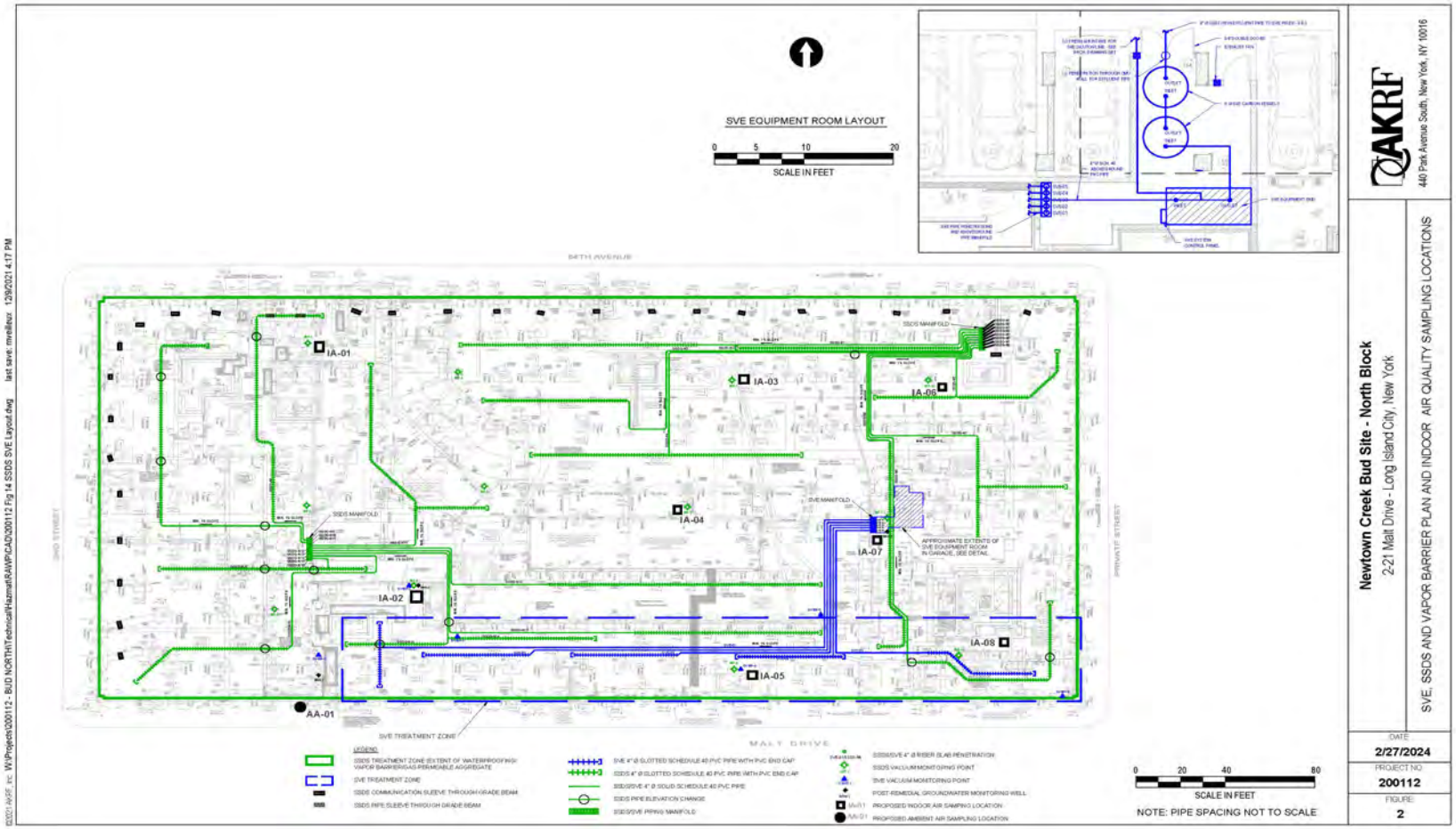
- AKRF returned to the Site to close and remove the 6 Liter vapor sampling canisters from the 8 sample locations (IA-01 through IA-08) and one ambient air canister (AA-01) outside of the building. The canisters were closed between 14:06 and 14:39.

- AKRF inspected each sampling space and took photographs of each location.

Additional Information

Planned Work Activity for Following Day/Week:	None.
Comments:	

Site Map



AKRF
440 Park Avenue South, New York, NY 10016

Newtown Creek Bud Site - North Block
2-21 Malt Drive - Long Island City, New York

SVE, SSDS AND VAPOR BARRIER PLAN AND INDOOR AIR QUALITY SAMPLING LOCATIONS

DATE
2/27/2024
PROJECT NO.
200112
FIGURE:
2

Site Photographs	
Photograph 1 - Indoor Air Sample IA-01, view facing east.	
Photograph 2 - Indoor Air Sample IA-04, view facing west.	

APPENDIX B

NYSDOH INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY FORM

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

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

Preparer's Name Kristen O'Neill Date/Time Prepared June 10, 2024 @ 13:30

Preparer's Affiliation AKRF. Inc. Phone No. 845-499-8025

Purpose of Investigation Pre-Occupancy Indoor Air Quality (IAQ) Assessment

1. OCCUPANT:

Interviewed: (Y) / N

Last Name: Tom First Name: Kesling

Address: 2-21 Malt Drive, Long Island City, NY

County: United States of America

Home Phone: Not Applicable (NA) Office Phone: 212-369-7722

Number of Occupants/persons at this location: 0* Age of Occupants: NA
*While there were no residents or commercia tenants at the time of the inspection, approximately 100 construction workers were present at various times throughout sample collection.

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

Interviewed: Y / N

Last Name: First Name:

Address:

County:

Home Phone: Office Phone:

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	Commercial/Multi-use
Industrial	Church	(Other:) Active Construction Site

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

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	(Other:) Multi-story mixed use commercial and residential building under construction

If multiple units, how many? 817 (6 commercial, 811 residential)

If the property is commercial, type?

Business Type(s) N/A

Does it include residences (i.e., multi-use)? (Y) / N If yes, how many? 811

Other characteristics:

Number of floors 38 Building age 2024

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

4. AIRFLOW

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

Airflow between floors

Central duct system with forced air in each corridor; stairwell between floors.

Airflow near source

HVAC system circulating air throughout the first floor.

Outdoor air infiltration

HVAC system reconditions outside air prior to entry into the system.

Infiltration into air ducts

Incoming Water Room exhausted by EF-1-3 near IA-01 location. The Low-Rise Elevator Service Room by IA-02 is conditioned by WSHP-W-2-2. The bike storage room, the location of IA-03 and IA-06 conditioned by WSHP-1-7, fresh air by SF-1-2, and is exhausted by EF-1-1. The parking garage, the location of IA-04, is exhausted by GEP-1-1, 2, 3. Apartment #113, the location of IA-05, is conditioned by WSHP-1-7, fresh air by SF-1-2. And exhausted by EF-1-1. The soil vapor extraction room, the location of IA-07, is exhausted by EF-1-5. The East Interior Compactor Room is conditioned by WSHP-1-6 fresh air by HV-2-5 and is exhausted by EF-E-2-2.

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

a. Above grade construction:	wood frame	(concrete)	stone	brick
b. Basement type:	full	crawlspace	slab	(other) N/A
c. Basement floor:	concrete	dirt	stone	(other) N/A
d. Basement floor:	uncovered	covered	(covered with) N/A (at-grade construction)	
e. Concrete floor:	unsealed	(sealed)	sealed with _____	
f. Foundation walls:	(poured)	block	stone	other _____
g. Foundation walls:	unsealed	(sealed)	sealed with _____	
h. The basement is:	wet	damp	dry	moldy N/A
i. The basement is:	finished	unfinished	partially finished N/A	
j. Sump present?	Y / (N)			
k. Water in sump?	Y / N / (N/A)			

Basement/Lowest level depth below grade: N/A (feet)

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

Minor surficial cracks in concrete slab from ongoing construction activities, which did not penetrate the slab.

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

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

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

The primary type of fuel used is:

(Natural Gas)	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Natural Gas

Boiler/furnace located in: Basement Outdoors Main Floor (Other) 2nd Floor

Air conditioning: (Central Air) Window units Open Windows None

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

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

Air supply vents were present in each space. Where visible, ducts were in good shape, with no cracks or opens, and appeared to be tight (no leaks).

7. OCCUPANCY

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

* Building is occupied by construction workers each day between approximately 0630 and 1530.

Level	**General Use of Each Floor (e.g., family room, bedroom, laundry, workshop, storage)**
Basement	No Basement
1st Floor	Under Construction
2nd through 38th Floors	Under Construction

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

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

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

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

d. Has the building ever had a fire? (Y) / N When? Small fire on exterior panel in 2023.

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

f. Is there a workshop or hobby/craft area? (Y) / N Where & Type? Across first floor and upper floors (for ongoing work)

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

h. Have cleaning products been used recently? (Y) / N When & Type? Withing past week, sweeping compounds for cleaning.

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

j. Has painting/staining been done in the last 6 months? (Y) / N Where & When? Low-rise elevator service room on 6/11/2024. In addition, painting as part of building construction has been ongoing for the last 6 months.

k. Is there new carpet, drapes or other textiles? Y / (N) Where & When? _____

l. Have air fresheners been used recently? Y / (N) When & Type? _____

m. Is there a kitchen exhaust fan? (Y) / N If yes, where vented? Each unit kitchen has an exhaust fan that vent into the unit

n. Is there a bathroom exhaust fan? (Y) / N If yes, where vented? Building HVAC

o. Is there a clothes dryer? (Y) / N If yes, is it vented outside? (Y) / N

p. Has there been a pesticide application? Y / (N) When & Type? _____

Are there odors in the building? (Y) / N

If yes, please describe: Slight chemical odor detected in first floor residential lobby associated with the application of tiles and from paint application in the Low-Rise Elevator Service Room. In addition, painting as part of building construction has been ongoing for the last 6 months.

Do any of the building occupants use solvents at work? Y / (N)
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Y / (N)

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

Yes, use dry-cleaning regularly (weekly)	No
Yes, use dry-cleaning infrequently (monthly or less)	No
Yes, work at a dry-cleaning service	No

Is there a radon mitigation system for the building/structure? Y / (N) Date of Installation: _____
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: (Public Water) Drilled Well Driven Well Dug Well Other: _____

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

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: N/A

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

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

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

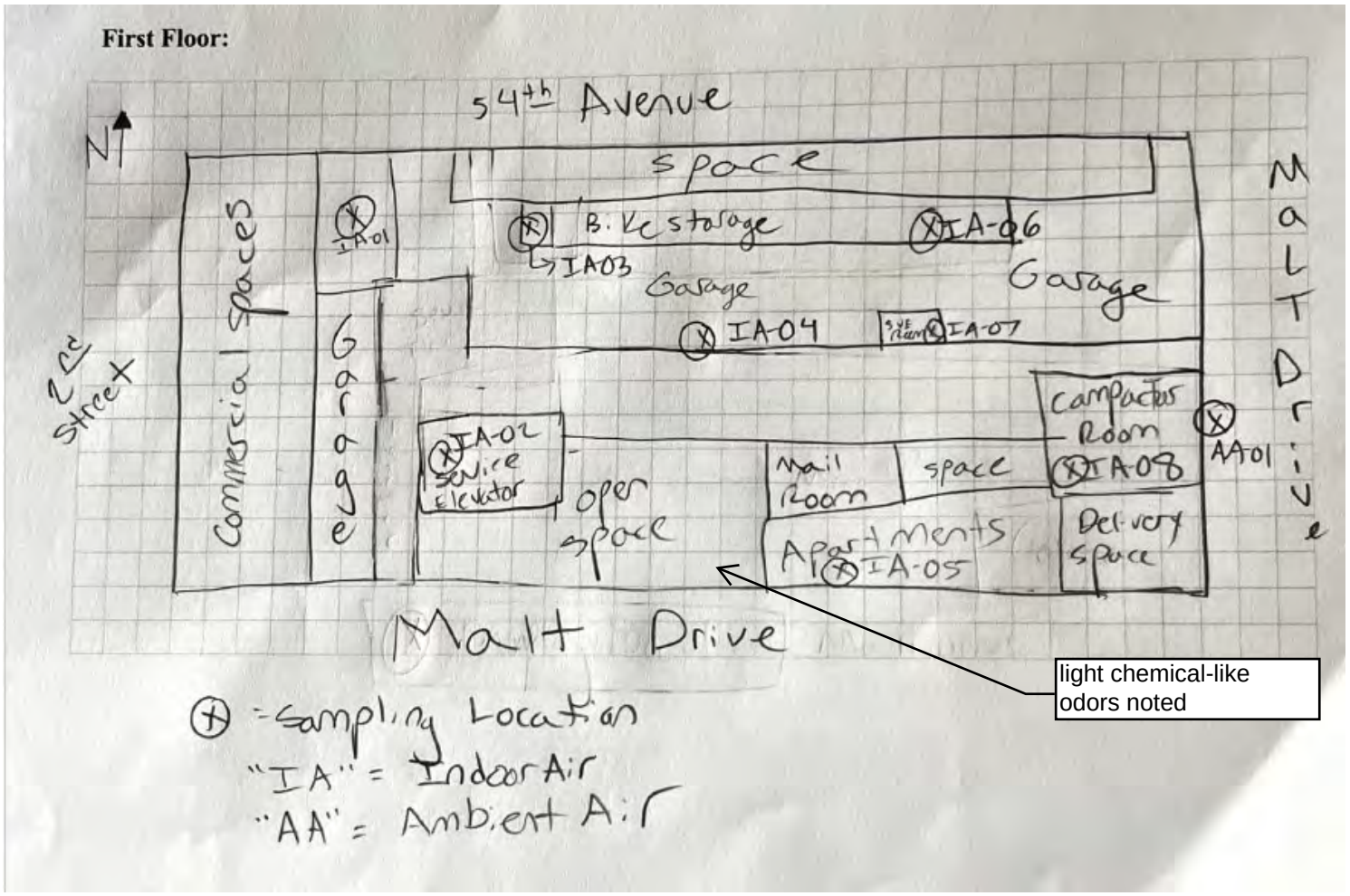
11. FLOOR PLANS

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

Basement:

Not Applicable – No Basement

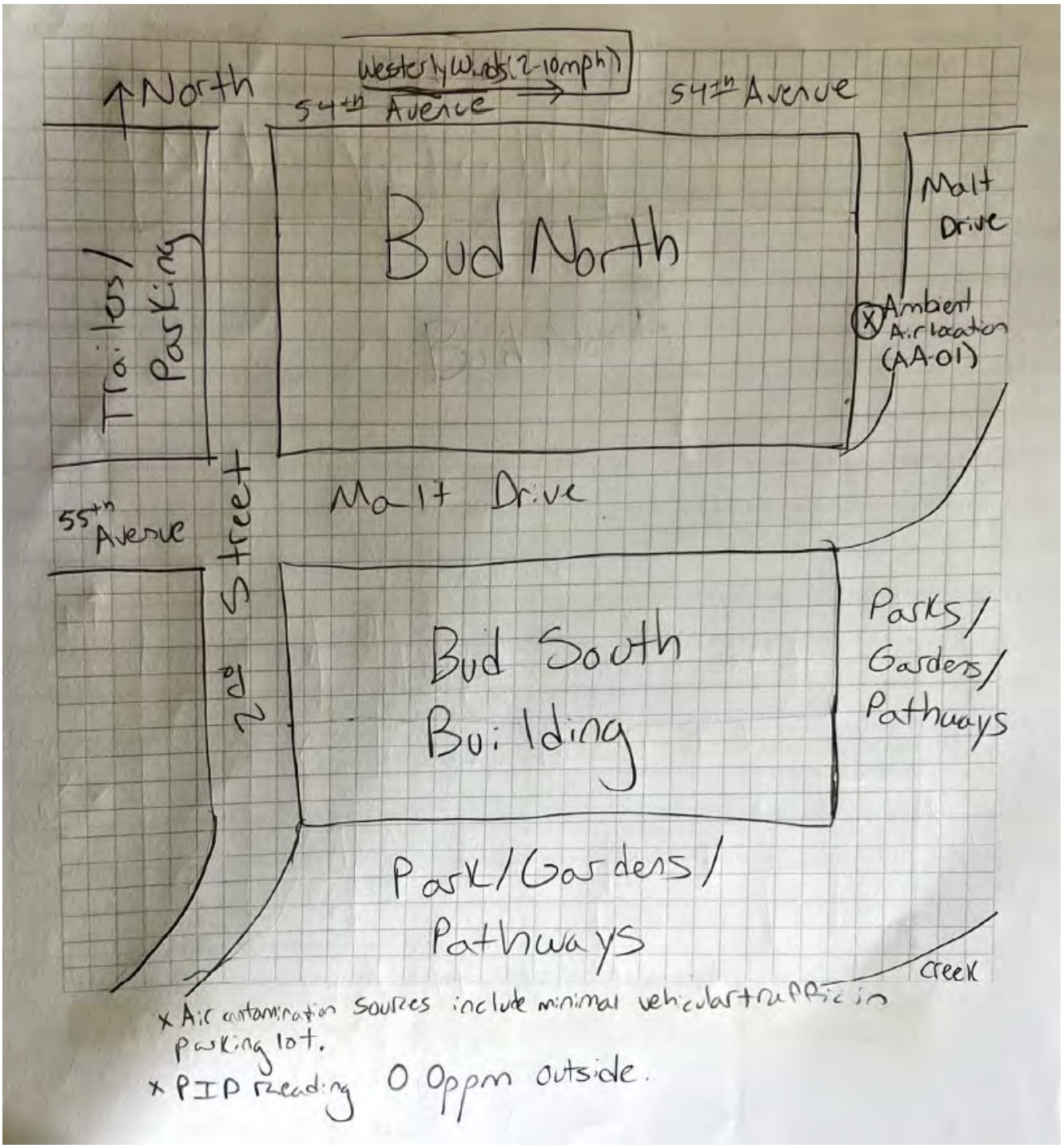
First Floor:



12. OUTDOOR PLOT

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

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



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: MultiRae 3000 (PID)

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

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (ppm)	Photo ** Y / N
Storage Cabinet on Malt Drive near AA-01 location (building exterior).	Fire Extinguisher	1 canister	U	Carbon dioxide, monoammonium phosphate, halotron, potassium bicarbonate, miscellaneous dry powders	0.0	Y
	ParaPro Flashing Resin	5 canisters	UO	Methyl methacrylate, 2-Ethylhexyl acrylate, Titanium dioxide, Naphtha, petroleum, hydrodesulfurized Heavy, unsaturated, dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine	0.0	Y
	PA-917 Primer (paint)	2 cases	UO	Oxidized asphalt, proprietary ingredients	0.0	Y
	Gasoline Canister	1 can	U	BTEX, hexane, octane, ethanol, 1,2,4-trimethylbenzene, heptane, pentane, cumene, cyclohexane	0.2	Y
	Pro-catalyst liquid	2 cases	UO	Dibenzoyl peroxide, Zinc stearate	0.0	Y
Domestic Water Pump Room	Cniders P-11 Vicryl Coating	1 box	U	Calcium carbonate, titanium dioxide, cellulose, crystalline, silica	0.0	Y
Low Rise Service Elevator Lobby	Fire Extinguisher	1 canister	U	Carbon dioxide, monoammonium phosphate, halotron, potassium bicarbonate, miscellaneous dry powders	0.0	Y
	Porch + Floor Enamel	6 cases	U	Titanium dioxide, zinc oxide	0.0	Y
Apartment 113	All Purpose Floor Compound	3 cases	U	Limestone, attapulgite, perlite	0.0	Y

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

APPENDIX C

INDOOR AND AMBIENT AIR SAMPLING LOGS

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Ambient Air Sample Log

Project Name:	Bud North	**Sampled By:**	K. O'Neill
Project Location:	2-10 54th Avenue, Queens, NY	**Date:**	6/10/2024 - 6/11/2024
Project Number:	200112	**Weather:**	60-77 ^{o}F; Clear
Client:	Bud North LLC	**Wind Direction:**	West 2-10 mph

Sample Identification

On-Site Location:	Malt Drive Sidewalk	**SUMMA® Canister ID:**	3560
Flow Controller ID:	0200	**Ambient Air Sample ID:**	AA-01_20240611

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Potential VOC Sources/Notes
Time Started:	14:02	-29.6	0.0 ppm	- Fire extinguisher - PA 917 Primer -Parafro Flashing Resin - Procatelyst liquid
Time Halfway:				
Time Stopped:	14:06	-7.53	0.0 ppm	11

Notes:	ND = non-detect	ppm = parts per million	in/Hg = inches of mercury
	Ambient air sample AA-01_20240611 collected in a 6-L SUMMA® canister using a 24-hour flow controller.		

AKRF

440 Park Avenue South, 7th Floor
New York, NY 10016

Indoor Air Sample Log

Project Name:	Bud North	**Sampled By:**	K. O'Neill
Project Location:	2-10 54th Avenue, Queens, NY	**Date:**	6/10/2024 - 6/11/2024
Project Number:	200112	**Weather:**	60-77 ^{o}F; Clear
Client:	Bud North LLC	**Wind Direction:**	West 2-10 mph

Sample Identification

On-Site Location:	Domestic Water Pump Room	**SUMMA® Canister ID:**	4313
Flow Controller ID:	0413	**Ambient Air Sample ID:**	IA-01_20240611

Sample Collection

	Time	Vacuum (in/Hg)	Background PID	Potential VOC Sources/Notes
Time Started:	14:14	-29.67	0.2 ppm	vi-cryl coating
Time Halfway:				
Time Stopped:	14:12	-6.87	0.1 ppm	vi-cryl coating

Notes:	ND = non-detect	ppm = parts per million	L/min = Liters per minute
	Indoor air sample IA-01_20240611 collected in a 6-L SUMMA® canister using a 24-hour flow controller.		

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Indoor Air Sample Log

Project Name:	Bud North	**Sampled By:**	K. O'Neill
Project Location:	2-10 54th Avenue, Queens, NY	**Date:**	6/10/2024 - 6/11/2024
Project Number:	200112	**Weather:**	60-77 ^{o}F; Clear
Client:	Bud North LLC	**Wind Direction:**	West 2-10 mph

Sample Identification

On-Site Location:	Low-rise Elevator Services Lobby	**SUMMA® Canister ID:**	3295
Flow Controller ID:	01710	**Ambient Air Sample ID:**	IA-02_20240611

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Potential VOC Sources/Notes
Time Started:	14:17	-29.88	0.8 ppm	Floor and porch enamel cases
Time Halfway:				
Time Stopped:	13:24	-5.85	0.5 ppm	Lobby painted before 6/11 arrival; PM notified. Floor and porch enamel cases.

Notes:	ND = non-detect	ppm = parts per million	L/min = Liters per minute
	Indoor air sample IA-02_20240611 collected in a 6-L SUMMA® canister using a 24-hour flow controller.		

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Indoor Air Sample Log

Project Name:	Bud North	**Sampled By:**	K. O'Neill
Project Location:	2-10 54th Avenue, Queens, NY	**Date:**	6/10/2024 - 6/11/2024
Project Number:	200112	**Weather:**	60-77 ^{o}F; Clear
Client:	Bud North LLC	**Wind Direction:**	West 2-10 mph

Sample Identification

On-Site Location:	North Bike Storage Room	**SUMMA® Canister ID:**	947
Flow Controller ID:	01624	**Ambient Air Sample ID:**	IA-03_20240611

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Potential VOC Sources/Notes
Time Started:	14:22	-29.8	3.7 ppm	
Time Halfway:				
Time Stopped:	14:18	-7.98	0.0 ppm	

Notes:			
	ND = non-detect	ppm = parts per million	L/min = Liters per minute
	Indoor air sample IA-03_20240611 collected in a 6-L SUMMA® canister using a 24-hour flow controller.		

440 Park Avenue South, 7th Floor
New York, NY 10016

Indoor Air Sample Log

Project Name:	Bud North	**Sampled By:**	K. O'Neill
Project Location:	2-10 54th Avenue, Queens, NY	**Date:**	6/10/2024 - 6/11/2024
Project Number:	200112	**Weather:**	60-77 ^{o}F; Clear
Client:	Bud North LLC	**Wind Direction:**	West 2-10 mph

Sample Identification

On-Site Location:	Garage	**SUMMA® Canister ID:**	3085
Flow Controller ID:	02002	**Ambient Air Sample ID:**	IA-04_20240611

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Potential VOC Sources/Notes
Time Started:	14:26	-29.75	2.1 ppm	
Time Halfway:				
Time Stopped:	14:25	-9.98	0.0 ppm	

Notes:			
	ND = non-detect	ppm = parts per million	L/min = Liters per minute
	Indoor air sample IA-04_20240611 collected in a 6-L SUMMA® canister using a 24-hour flow controller.		

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Indoor Air Sample Log

Project Name:	Bud North	**Sampled By:**	K. O'Neill
Project Location:	2-10 54th Avenue, Queens, NY	**Date:**	6/10/2024 - 6/11/2024
Project Number:	200112	**Weather:**	60-77 ^{o}F; Clear
Client:	Bud North LLC	**Wind Direction:**	West 2-10 mph

Sample Identification

On-Site Location:	Apartment 113	**SUMMA® Canister ID:**	2967
Flow Controller ID:	0475	**Ambient Air Sample ID:**	IA-05_20240611

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Potential VOC Sources/Notes
Time Started:	14:31	-29.69	0.8 ppm	Proform All-Purpose Joint Compound
Time Halfway:				
Time Stopped:	14:36	-8.76	0.1 ppm	Proform All-Purpose Joint Compound

Notes:	ND = non-detect	ppm = parts per million	L/min = Liters per minute
	Indoor air sample IA-05_20240611 collected in a 6-L SUMMA® canister using a 24-hour flow controller.		

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Indoor Air Sample Log

Project Name:	Bud North	**Sampled By:**	K. O'Neill
Project Location:	2-10 54th Avenue, Queens, NY	**Date:**	6/10/2024 - 6/11/2024
Project Number:	200112	**Weather:**	60-77 ^{o}F; Clear
Client:	Bud North LLC	**Wind Direction:**	West 2-10 mph

Sample Identification

On-Site Location:	North Bike Storage Room	**SUMMA® Canister ID:**	01576
Flow Controller ID:	4251	**Ambient Air Sample ID:**	IA-06_20240611

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Potential VOC Sources/Notes
Time Started:	14:23	-29.68	4.0 ppm	
Time Halfway:				
Time Stopped:	14:22	-9.06	0.0 ppm	

Notes:			
	ND = non-detect	ppm = parts per million	L/min = Liters per minute
	Indoor air sample IA-06_20240611 collected in a 6-L SUMMA® canister using a 24-hour flow controller.		

440 Park Avenue South, 7th Floor
New York, NY 10016

Indoor Air Sample Log

Project Name:	Bud North	**Sampled By:**	K. O'Neill
Project Location:	2-10 54th Avenue, Queens, NY	**Date:**	6/10/2024 - 6/11/2024
Project Number:	200112	**Weather:**	60-77 ^{o}F; Clear
Client:	Bud North LLC	**Wind Direction:**	West 2-10 mph

Sample Identification

On-Site Location:	Soil Vapor Extraction Room	**SUMMA® Canister ID:**	896
Flow Controller ID:	02452	**Ambient Air Sample ID:**	IA-07_20240611

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Potential VOC Sources/Notes
Time Started:	14:28	-29.55	2.3 ppm	
Time Halfway:				
Time Stopped:	14:27	-11.27	0.0 ppm	

Notes:			
	ND = non-detect	ppm = parts per million	L/min = Liters per minute
	Indoor air sample IA-07_20240611 collected in a 6-L SUMMA® canister using a 24-hour flow controller.		

AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016

Indoor Air Sample Log

Project Name:	Bud North	**Sampled By:**	K. O'Neill
Project Location:	2-10 54th Avenue, Queens, NY	**Date:**	6/10/2024 - 6/11/2024
Project Number:	200112	**Weather:**	60-77 ^{o}F; Clear
Client:	Bud North LLC	**Wind Direction:**	West 2-10 mph

Sample Identification

On-Site Location:	East Compact Room	**SUMMA® Canister ID:**	3565
Flow Controller ID:	01310	**Ambient Air Sample ID:**	IA-08_20240611

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Potential VOC Sources/Notes
Time Started:	14:33	-29.71	2.7 ppm	
Time Halfway:				
Time Stopped:	14:38	-10.44	0.0 ppm	

Notes:			
	ND = non-detect	ppm = parts per million	L/min = Liters per minute
	Indoor air sample IA-08_20240611 collected in a 6-L SUMMA® canister using a 24-hour flow controller.		

APPENDIX D
PHOTOGRAPHIC LOG

Photograph 1: Sample IA-01, facing east.

Photograph 2: Sample IA-02, facing north.

Photograph 3: Sample IA-03, facing south.

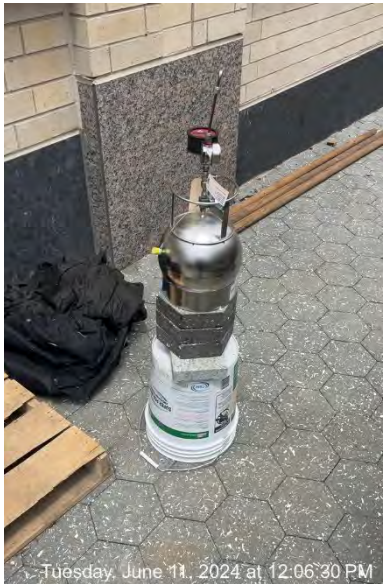
Photograph 4: Sample IA-04, facing southwest.

Photograph 5: Sample IA-05, facing east.

Photograph 6: Sample IA-06, facing west.

Photograph 7: Sample IA-07, facing south

Photograph 8: Sample AA-01, facing northwest.



Photograph 9: Sample AA-01, facing northwest.

Photograph 10: Gasoline canister near AA-01, facing west.

Photograph 11: PA-917 Primer, facing west.

APPENDIX E

LABORATORY ANALYTICAL REPORT AND DUSR

ANALYTICAL REPORT

Lab Number:	L2432670
Client:	AKRF, Inc. 440 Park Avenue South 7th Floor New York, NY 10016
ATTN:	Patrick Diggins
Phone:	(646) 388-9784
Project Name:	BUD NORTH
Project Number:	200112
Report Date:	06/21/24

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (9110), MN (025-999-495), NJ (MA015), NY (11627), NC (685), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708A1), USFWS (Permit #A24920).

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2432670-01	AA-01_20240611	AIR	2-10 54TH AVE, LONG ISLAND CITY, NY	06/11/24 14:06	06/11/24
L2432670-02	IA-01_20240611	AIR	2-10 54TH AVE, LONG ISLAND CITY, NY	06/11/24 14:12	06/11/24
L2432670-03	IA-02_20240611	AIR	2-10 54TH AVE, LONG ISLAND CITY, NY	06/11/24 13:24	06/11/24
L2432670-04	IA-03_20240611	AIR	2-10 54TH AVE, LONG ISLAND CITY, NY	06/11/24 14:18	06/11/24
L2432670-05	IA-06_20240611	AIR	2-10 54TH AVE, LONG ISLAND CITY, NY	06/11/24 14:22	06/11/24
L2432670-06	IA-05_20240611	AIR	2-10 54TH AVE, LONG ISLAND CITY, NY	06/11/24 14:36	06/11/24
L2432670-07	IA-04_20240611	AIR	2-10 54TH AVE, LONG ISLAND CITY, NY	06/11/24 14:25	06/11/24
L2432670-08	IA-07_20240611	AIR	2-10 54TH AVE, LONG ISLAND CITY, NY	06/11/24 14:27	06/11/24
L2432670-09	IA-08_20240611	AIR	2-10 54TH AVE, LONG ISLAND CITY, NY	06/11/24 14:38	06/11/24
L2432670-10	UNUSED CAN #3610	AIR	2-10 54TH AVE, LONG ISLAND CITY, NY		06/11/24

Project Name:	BUD NORTH	**Lab Number:**	L2432670
Project Number:	200112	**Report Date:**	06/21/24

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name:	BUD NORTH	**Lab Number:**	L2432670
Project Number:	200112	**Report Date:**	06/21/24

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on May 28, 2024. The canister certification data is provided as an addendum.

L2432670-02: 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.

L2432670-02D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L2432670-03D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L2432670-03: 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.

L2432670-05D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L2432670-05: 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.

Project Name:	BUD NORTH	**Lab Number:**	L2432670
Project Number:	200112	**Report Date:**	06/21/24

Case Narrative (continued)

L2432670-06D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L2432670-06: 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.

L2432670-07: 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.

L2432670-07D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L2432670-08: 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.

L2432670-08D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

The WG1936045-3 LCS recovery for ethyl ether (167%), associated with L2432670-01 through -09, is above the upper 130% acceptance limit. All samples associated with this LCS do not have reportable amounts of this analyte.

Project Name:	BUD NORTH	**Lab Number:**	L2432670
Project Number:	200112	**Report Date:**	06/21/24

Case Narrative (continued)

Sample Receipt

The flow controller ID number for the sample designated IA-07_20240611 (L2432670-08) is listed on the CoC as 02425 but should be 02452.

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: Christopher J. Anderson

Title: Technical Director/Representative Date: 06/21/24

AIR

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-01
Client ID: AA-01_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 14:06
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 06/18/24 19:20
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.445	0.200	--	2.20	0.989	--		1
Chloromethane	0.618	0.200	--	1.28	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	11.2	5.00	--	21.1	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	10.1	1.00	--	24.0	2.38	--		1
Trichlorofluoromethane	0.207	0.200	--	1.16	1.12	--		1
Isopropanol	0.851	0.500	--	2.09	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-01
Client ID: AA-01_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 14:06
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.474	0.200	--	1.94	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.273	0.200	--	1.03	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-01
Client ID: AA-01_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 14:06
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	89		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	88		60-140

Project Name: BUD NORTH
Project Number: 200112
Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-01
Client ID: AA-01_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 14:06
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/18/24 19:20
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.068	0.020	--	0.428	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.528	0.020	--	3.58	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	88		60-140
bromochloromethane	91		60-140
chlorobenzene-d5	88		60-140

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-02
Client ID: IA-01_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 14:12
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 06/19/24 04:07
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.463	0.200	--	2.29	0.989	--		1
Chloromethane	0.614	0.200	--	1.27	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	555	5.00	--	1050	9.42	--	E	1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	25.6	1.00	--	60.8	2.38	--		1
Trichlorofluoromethane	0.211	0.200	--	1.19	1.12	--		1
Isopropanol	9.07	0.500	--	22.3	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	893	0.500	--	2630	1.47	--	E	1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-02
Client ID: IA-01_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 14:12
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	12.7	0.200	--	52.0	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	3.58	0.200	--	13.5	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	1.78	0.200	--	7.73	0.869	--		1
p/m-Xylene	6.62	0.400	--	28.8	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.54	0.200	--	6.69	0.869	--		1
4-Ethyltoluene	0.345	0.200	--	1.70	0.983	--		1
1,3,5-Trimethylbenzene	0.484	0.200	--	2.38	0.983	--		1

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-02
Client ID: IA-01_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 14:12
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	1.24	0.200	--	6.10	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	0.413	0.200	--	2.17	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	100		60-140

Project Name: BUD NORTH
Project Number: 200112
Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-02
Client ID: IA-01_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 14:12
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/19/24 04:07
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.067	0.020	--	0.421	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	93		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	100		60-140

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-02 D
Client ID: IA-01_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 14:12
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 06/20/24 22:00
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Ethanol	710	379	--	1340	714	--		75.76
2-Butanone	1440	37.9	--	4250	112	--		75.76

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	96		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	95		60-140

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-03
Client ID: IA-02_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 13:24
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 06/18/24 20:35
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.444	0.200	--	2.20	0.989	--		1
Chloromethane	0.594	0.200	--	1.23	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	586	5.00	--	1100	9.42	--	E	1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	211	1.00	--	501	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	3.49	0.500	--	8.58	1.23	--		1
Tertiary butyl Alcohol	6.44	0.500	--	19.5	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	17.4	0.500	--	51.3	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-03
Client ID: IA-02_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 13:24
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	0.261	0.200	--	0.834	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	7.56	0.200	--	31.0	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	40.4	0.200	--	152	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	7.96	0.200	--	34.6	0.869	--		1
p/m-Xylene	32.6	0.400	--	142	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.967	0.200	--	4.12	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	9.08	0.200	--	39.4	0.869	--		1
4-Ethyltoluene	5.99	0.200	--	29.4	0.983	--		1
1,3,5-Trimethylbenzene	11.1	0.200	--	54.6	0.983	--		1

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-03
Client ID: IA-02_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 13:24
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	29.5	0.200	--	145	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	96		60-140

Project Name: BUD NORTH
Project Number: 200112
Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-03
Client ID: IA-02_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 13:24
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/18/24 20:35
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.062	0.020	--	0.390	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	92		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	96		60-140

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-03 D
Client ID: IA-02_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 13:24
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 06/20/24 19:12
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Ethanol	675	25.0	--	1270	47.1	--		5

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	90		60-140
Bromochloromethane	88		60-140
chlorobenzene-d5	89		60-140

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-04
Client ID: IA-03_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 14:18
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 06/18/24 21:12
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.455	0.200	--	2.25	0.989	--		1
Chloromethane	0.643	0.200	--	1.33	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	335	5.00	--	631	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	482	1.00	--	1140	2.38	--		1
Trichlorofluoromethane	0.206	0.200	--	1.16	1.12	--		1
Isopropanol	15.4	0.500	--	37.9	1.23	--		1
Tertiary butyl Alcohol	2.51	0.500	--	7.61	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	17.0	0.500	--	50.1	1.47	--		1
Ethyl Acetate	0.577	0.500	--	2.08	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	1.30	0.500	--	3.83	1.47	--		1

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-04
Client ID: IA-03_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 14:18
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	0.200	0.200	--	0.639	0.639	--		1
Cyclohexane	0.222	0.200	--	0.764	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	0.393	0.200	--	1.42	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	5.74	0.200	--	23.5	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	11.2	0.200	--	42.2	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	1.77	0.200	--	7.69	0.869	--		1
p/m-Xylene	5.76	0.400	--	25.0	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.457	0.200	--	1.95	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.32	0.200	--	5.73	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-04
Client ID: IA-03_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 14:18
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	0.246	0.200	--	1.21	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	94		60-140

Project Name: BUD NORTH
Project Number: 200112
Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-04
Client ID: IA-03_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 14:18
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/18/24 21:12
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.063	0.020	--	0.396	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.067	0.020	--	0.454	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	91		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	94		60-140

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-05
Client ID: IA-06_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 14:22
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 06/18/24 21:50
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.455	0.200	--	2.25	0.989	--		1
Chloromethane	0.630	0.200	--	1.30	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	344	5.00	--	648	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	530	1.00	--	1260	2.38	--	E	1
Trichlorofluoromethane	0.205	0.200	--	1.15	1.12	--		1
Isopropanol	12.8	0.500	--	31.5	1.23	--		1
Tertiary butyl Alcohol	1.96	0.500	--	5.94	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	12.4	0.500	--	36.6	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	0.879	0.500	--	2.59	1.47	--		1

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-05
Client ID: IA-06_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 14:22
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	0.208	0.200	--	0.664	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	0.305	0.200	--	1.10	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	6.41	0.200	--	26.3	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	11.8	0.200	--	44.5	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	3.04	0.200	--	13.2	0.869	--		1
p/m-Xylene	9.64	0.400	--	41.9	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.472	0.200	--	2.01	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	2.09	0.200	--	9.08	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-05
Client ID: IA-06_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 14:22
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	0.210	0.200	--	1.03	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	92		60-140

Project Name: BUD NORTH
Project Number: 200112
Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-05
Client ID: IA-06_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 14:22
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/18/24 21:50
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.062	0.020	--	0.390	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.458	0.020	--	3.11	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	89		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	93		60-140

Project Name: BUD NORTH
Project Number: 200112
Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-05 D
Client ID: IA-06_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 14:22
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 06/20/24 19:45
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Acetone	496	5.00	--	1180	11.9	--		5

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	89		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	88		60-140

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-06
Client ID: IA-05_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 14:36
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 06/18/24 22:27
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.455	0.200	--	2.25	0.989	--		1
Chloromethane	0.638	0.200	--	1.32	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	296	5.00	--	558	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	634	1.00	--	1510	2.38	--	E	1
Trichlorofluoromethane	0.203	0.200	--	1.14	1.12	--		1
Isopropanol	3.66	0.500	--	9.00	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.89	0.500	--	5.57	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-06
Client ID: IA-05_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 14:36
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	0.267	0.200	--	0.853	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	4.88	0.200	--	20.0	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	6.18	0.200	--	23.3	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	1.98	0.200	--	8.60	0.869	--		1
p/m-Xylene	6.28	0.400	--	27.3	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.520	0.200	--	2.21	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.48	0.200	--	6.43	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	0.217	0.200	--	1.07	0.983	--		1

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-06
Client ID: IA-05_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 14:36
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	0.608	0.200	--	2.99	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	90		60-140

Project Name: BUD NORTH
Project Number: 200112
Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-06
Client ID: IA-05_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 14:36
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/18/24 22:27
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.068	0.020	--	0.428	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.248	0.020	--	1.68	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	89		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	92		60-140

Project Name: BUD NORTH
Project Number: 200112
Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-06 D
Client ID: IA-05_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 14:36
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 06/20/24 20:19
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Acetone	645	5.00	--	1530	11.9	--		5

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	87		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	83		60-140

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-07
Client ID: IA-04_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 14:25
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 06/18/24 23:43
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.460	0.200	--	2.27	0.989	--		1
Chloromethane	0.637	0.200	--	1.32	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	898	5.00	--	1690	9.42	--	E	1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	200	1.00	--	475	2.38	--		1
Trichlorofluoromethane	0.200	0.200	--	1.12	1.12	--		1
Isopropanol	21.6	0.500	--	53.1	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	10.5	0.500	--	31.0	1.47	--		1
Ethyl Acetate	0.847	0.500	--	3.05	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-07
Client ID: IA-04_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 14:25
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.214	0.200	--	0.754	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	0.410	0.200	--	1.41	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	6.29	0.200	--	25.8	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	7.76	0.200	--	29.2	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.308	0.200	--	1.34	0.869	--		1
p/m-Xylene	1.09	0.400	--	4.73	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.334	0.200	--	1.42	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.325	0.200	--	1.41	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-07
Client ID: IA-04_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 14:25
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	93		60-140

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-07
Client ID: IA-04_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 14:25
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/18/24 23:43
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.066	0.020	--	0.415	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.041	0.020	--	0.278	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	89		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	94		60-140

Project Name: BUD NORTH
Project Number: 200112
Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-07 D
Client ID: IA-04_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 14:25
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 06/20/24 20:53
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Ethanol	1120	25.0	--	2110	47.1	--		5

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	86		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	84		60-140

Project Name: BUD NORTH
Project Number: 200112
Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-08
Client ID: IA-07_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY
Date Collected: 06/11/24 14:27
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 06/19/24 00:21
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.492	0.200	--	2.43	0.989	--		1
Chloromethane	0.668	0.200	--	1.38	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	816	5.00	--	1540	9.42	--	E	1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	239	1.00	--	568	2.38	--		1
Trichlorofluoromethane	0.264	0.200	--	1.48	1.12	--		1
Isopropanol	27.7	0.500	--	68.1	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	18.9	0.500	--	55.7	1.47	--		1
Ethyl Acetate	1.23	0.500	--	4.43	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	7.11	0.500	--	21.0	1.47	--		1

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-08
Client ID: IA-07_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 14:27
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.225	0.200	--	0.793	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	0.441	0.200	--	1.52	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	8.59	0.200	--	35.2	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	7.34	0.200	--	27.7	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.654	0.200	--	2.84	0.869	--		1
p/m-Xylene	2.19	0.400	--	9.51	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.418	0.200	--	1.78	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.577	0.200	--	2.51	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-08
Client ID: IA-07_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 14:27
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	92		60-140

Project Name: BUD NORTH
Project Number: 200112
Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-08
Client ID: IA-07_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 14:27
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/19/24 00:21
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.068	0.020	--	0.428	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.114	0.020	--	0.773	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	88		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	93		60-140

Project Name: BUD NORTH
Project Number: 200112
Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-08 D
Client ID: IA-07_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 14:27
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 06/20/24 21:26
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Ethanol	968	25.0	--	1820	47.1	--		5

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	85		60-140
Bromochloromethane	88		60-140
chlorobenzene-d5	85		60-140

Project Name: BUD NORTH
Project Number: 200112
Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-09
Client ID: IA-08_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 14:38
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 06/19/24 00:59
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.466	0.200	--	2.30	0.989	--		1
Chloromethane	0.625	0.200	--	1.29	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	280	5.00	--	528	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	430	1.00	--	1020	2.38	--		1
Trichlorofluoromethane	0.211	0.200	--	1.19	1.12	--		1
Isopropanol	5.45	0.500	--	13.4	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	4.53	0.500	--	13.4	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-09
Client ID: IA-08_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 14:38
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	0.315	0.200	--	1.01	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	5.28	0.200	--	21.6	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	6.64	0.200	--	25.0	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	2.67	0.200	--	11.6	0.869	--		1
p/m-Xylene	8.40	0.400	--	36.5	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.756	0.200	--	3.22	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.96	0.200	--	8.51	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-09
Client ID: IA-08_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 14:38
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	89		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	92		60-140

Project Name: BUD NORTH
Project Number: 200112
Lab Number: L2432670
Report Date: 06/21/24

SAMPLE RESULTS

Lab ID: L2432670-09
Client ID: IA-08_20240611
Sample Location: 2-10 54TH AVE, LONG ISLAND CITY, NY

Date Collected: 06/11/24 14:38
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/19/24 00:59
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.066	0.020	--	0.415	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.607	0.020	--	4.12	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	88		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	93		60-140

Project Name: BUD NORTH
Project Number: 200112
Lab Number: L2432670
Report Date: 06/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/18/24 18:43

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-09 Batch: WG1936045-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1

Project Name: BUD NORTH
Project Number: 200112
Lab Number: L2432670
Report Date: 06/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/18/24 18:43

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-09 Batch: WG1936045-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1

Project Name: BUD NORTH
Project Number: 200112
Lab Number: L2432670
Report Date: 06/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/18/24 18:43

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-09 Batch: WG1936045-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BUD NORTH
Project Number: 200112
Lab Number: L2432670
Report Date: 06/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 06/18/24 18:43

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-09 Batch: WG1936046-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Project Name: BUD NORTH
Project Number: 200112
Lab Number: L2432670
Report Date: 06/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/20/24 15:21

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 02-03,05-08 Batch: WG1937252-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/20/24 15:21

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 02-03,05-08 Batch: WG1937252-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1

Project Name: BUD NORTH
Project Number: 200112
Lab Number: L2432670
Report Date: 06/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/20/24 15:21

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 02-03,05-08 Batch: WG1937252-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-09 Batch: WG1936045-3								
Dichlorodifluoromethane	90		-		70-130	-		
Chloromethane	107		-		70-130	-		
Freon-114	108		-		70-130	-		
Vinyl chloride	98		-		70-130	-		
1,3-Butadiene	118		-		70-130	-		
Bromomethane	94		-		70-130	-		
Chloroethane	95		-		70-130	-		
Ethanol	123		-		40-160	-		
Vinyl bromide	82		-		70-130	-		
Acetone	110		-		40-160	-		
Trichlorofluoromethane	94		-		70-130	-		
Isopropanol	96		-		40-160	-		
1,1-Dichloroethene	98		-		70-130	-		
Tertiary butyl Alcohol	88		-		70-130	-		
Methylene chloride	101		-		70-130	-		
3-Chloropropene	105		-		70-130	-		
Carbon disulfide	86		-		70-130	-		
Freon-113	88		-		70-130	-		
trans-1,2-Dichloroethene	95		-		70-130	-		
1,1-Dichloroethane	93		-		70-130	-		
Methyl tert butyl ether	89		-		70-130	-		
2-Butanone	98		-		70-130	-		
cis-1,2-Dichloroethene	97		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-09 Batch: WG1936045-3								
Ethyl Acetate	100		-		70-130	-		
Chloroform	94		-		70-130	-		
Tetrahydrofuran	98		-		70-130	-		
1,2-Dichloroethane	93		-		70-130	-		
n-Hexane	115		-		70-130	-		
1,1,1-Trichloroethane	100		-		70-130	-		
Benzene	102		-		70-130	-		
Carbon tetrachloride	99		-		70-130	-		
Cyclohexane	114		-		70-130	-		
1,2-Dichloropropane	108		-		70-130	-		
Bromodichloromethane	110		-		70-130	-		
1,4-Dioxane	114		-		70-130	-		
Trichloroethene	100		-		70-130	-		
2,2,4-Trimethylpentane	118		-		70-130	-		
Heptane	119		-		70-130	-		
cis-1,3-Dichloropropene	109		-		70-130	-		
4-Methyl-2-pentanone	119		-		70-130	-		
trans-1,3-Dichloropropene	107		-		70-130	-		
1,1,2-Trichloroethane	104		-		70-130	-		
Toluene	93		-		70-130	-		
2-Hexanone	112		-		70-130	-		
Dibromochloromethane	98		-		70-130	-		
1,2-Dibromoethane	90		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-09 Batch: WG1936045-3								
Tetrachloroethene	88		-		70-130	-		
Chlorobenzene	93		-		70-130	-		
Ethylbenzene	96		-		70-130	-		
p/m-Xylene	96		-		70-130	-		
Bromoform	96		-		70-130	-		
Styrene	91		-		70-130	-		
1,1,2,2-Tetrachloroethane	104		-		70-130	-		
o-Xylene	100		-		70-130	-		
4-Ethyltoluene	89		-		70-130	-		
1,3,5-Trimethylbenzene	90		-		70-130	-		
1,2,4-Trimethylbenzene	94		-		70-130	-		
Benzyl chloride	95		-		70-130	-		
1,3-Dichlorobenzene	92		-		70-130	-		
1,4-Dichlorobenzene	91		-		70-130	-		
1,2-Dichlorobenzene	78		-		70-130	-		
1,2,4-Trichlorobenzene	88		-		70-130	-		
Naphthalene	88		-		70-130	-		
Hexachlorobutadiene	84		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-09 Batch: WG1936046-3								
Vinyl chloride	96		-		70-130	-		25
1,1-Dichloroethene	97		-		70-130	-		25
cis-1,2-Dichloroethene	96		-		70-130	-		25
1,1,1-Trichloroethane	92		-		70-130	-		25
Carbon tetrachloride	93		-		70-130	-		25
Trichloroethene	95		-		70-130	-		25
Tetrachloroethene	87		-		70-130	-		25

Lab Control Sample Analysis
Batch Quality Control

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 02-03,05-08 Batch: WG1937252-3								
Dichlorodifluoromethane	88		-		70-130	-		
Chloromethane	99		-		70-130	-		
Freon-114	101		-		70-130	-		
Vinyl chloride	93		-		70-130	-		
1,3-Butadiene	113		-		70-130	-		
Bromomethane	89		-		70-130	-		
Chloroethane	88		-		70-130	-		
Ethanol	129		-		40-160	-		
Vinyl bromide	74		-		70-130	-		
Acetone	103		-		40-160	-		
Trichlorofluoromethane	93		-		70-130	-		
Isopropanol	89		-		40-160	-		
1,1-Dichloroethene	93		-		70-130	-		
Tertiary butyl Alcohol	83		-		70-130	-		
Methylene chloride	100		-		70-130	-		
3-Chloropropene	93		-		70-130	-		
Carbon disulfide	80		-		70-130	-		
Freon-113	77		-		70-130	-		
trans-1,2-Dichloroethene	88		-		70-130	-		
1,1-Dichloroethane	84		-		70-130	-		
Methyl tert butyl ether	81		-		70-130	-		
2-Butanone	89		-		70-130	-		
cis-1,2-Dichloroethene	90		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 02-03,05-08 Batch: WG1937252-3								
Ethyl Acetate	89		-		70-130	-		
Chloroform	94		-		70-130	-		
Tetrahydrofuran	87		-		70-130	-		
1,2-Dichloroethane	91		-		70-130	-		
n-Hexane	120		-		70-130	-		
1,1,1-Trichloroethane	101		-		70-130	-		
Benzene	102		-		70-130	-		
Carbon tetrachloride	109		-		70-130	-		
Cyclohexane	119		-		70-130	-		
1,2-Dichloropropane	102		-		70-130	-		
Bromodichloromethane	120		-		70-130	-		
1,4-Dioxane	115		-		70-130	-		
Trichloroethene	98		-		70-130	-		
2,2,4-Trimethylpentane	120		-		70-130	-		
Heptane	115		-		70-130	-		
cis-1,3-Dichloropropene	107		-		70-130	-		
4-Methyl-2-pentanone	115		-		70-130	-		
trans-1,3-Dichloropropene	108		-		70-130	-		
1,1,2-Trichloroethane	97		-		70-130	-		
Toluene	83		-		70-130	-		
2-Hexanone	100		-		70-130	-		
Dibromochloromethane	90		-		70-130	-		
1,2-Dibromoethane	80		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 02-03,05-08 Batch: WG1937252-3								
Tetrachloroethene	77		-		70-130	-		
Chlorobenzene	82		-		70-130	-		
Ethylbenzene	83		-		70-130	-		
p/m-Xylene	86		-		70-130	-		
Bromoform	84		-		70-130	-		
Styrene	76		-		70-130	-		
1,1,2,2-Tetrachloroethane	95		-		70-130	-		
o-Xylene	88		-		70-130	-		
4-Ethyltoluene	78		-		70-130	-		
1,3,5-Trimethylbenzene	78		-		70-130	-		
1,2,4-Trimethylbenzene	84		-		70-130	-		
Benzyl chloride	84		-		70-130	-		
1,3-Dichlorobenzene	80		-		70-130	-		
1,4-Dichlorobenzene	79		-		70-130	-		
1,2-Dichlorobenzene	**65**	Q	-		70-130	-		
1,2,4-Trichlorobenzene	76		-		70-130	-		
Naphthalene	76		-		70-130	-		
Hexachlorobutadiene	74		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG1936045-5 QC Sample: L2432670-06 Client ID: IA-05_20240611						
Dichlorodifluoromethane	0.455	0.446	ppbV	2		25
Chloromethane	0.638	0.650	ppbV	2		25
Freon-114	ND	ND	ppbV	NC		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethanol	296	287	ppbV	3		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	634E	622E	ppbV	2		25
Trichlorofluoromethane	0.203	0.204	ppbV	0		25
Isopropanol	3.66	3.25	ppbV	12		25
Tertiary butyl Alcohol	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
Freon-113	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25
2-Butanone	1.89	1.85	ppbV	2		25
Ethyl Acetate	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG1936045-5 QC Sample: L2432670-06 Client ID: IA-05_20240611						
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	ND	ND	ppbV	NC		25
Benzene	0.267	0.263	ppbV	2		25
Cyclohexane	ND	ND	ppbV	NC		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC		25
Heptane	4.88	4.81	ppbV	1		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	ND	ND	ppbV	NC		25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Toluene	6.18	6.00	ppbV	3		25
2-Hexanone	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	1.98	1.91	ppbV	4		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG1936045-5 QC Sample: L2432670-06 Client ID: IA-05_20240611						
p/m-Xylene	6.28	6.11	ppbV	3		25
Bromoform	ND	ND	ppbV	NC		25
Styrene	0.520	0.489	ppbV	6		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	1.48	1.42	ppbV	4		25
4-Ethyltoluene	ND	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	0.217	0.212	ppbV	2		25
1,2,4-Trimethylbenzene	0.608	0.619	ppbV	2		25
Benzyl chloride	ND	ND	ppbV	NC		25
1,3-Dichlorobenzene	ND	ND	ppbV	NC		25
1,4-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC		25
Naphthalene	ND	ND	ppbV	NC		25
Hexachlorobutadiene	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG1936046-5 QC Sample: L2432670-06 Client ID: IA-05_20240611						
Vinyl chloride	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Carbon tetrachloride	0.068	0.065	ppbV	5		25
Trichloroethene	ND	ND	ppbV	NC		25
Tetrachloroethene	0.248	0.242	ppbV	2		25

Project Name: BUD NORTH

Project Number: 200112

Lab Number: L2432670

Report Date: 06/21/24

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 Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2432670-01	AA-01_20240611	0200	Flow 5	05/28/24	468356		-	-	-	Pass	3.1	3.1	0
L2432670-01	AA-01_20240611	3560	6.0L Can	05/28/24	468356	L2427436-04	Pass	-29.1	-7.9	-	-	-	-
L2432670-02	IA-01_20240611	0413	Flow 5	05/28/24	468356		-	-	-	Pass	3.0	3.3	10
L2432670-02	IA-01_20240611	4313	6.0L Can	05/28/24	468356	L2427776-03	Pass	-29.2	-7.1	-	-	-	-
L2432670-03	IA-02_20240611	01710	Flow 4	05/28/24	468356		-	-	-	Pass	3.0	3.4	13
L2432670-03	IA-02_20240611	3295	6.0L Can	05/28/24	468356	L2426712-04	Pass	-29.2	-6.2	-	-	-	-
L2432670-04	IA-03_20240611	01624	Flow 5	05/28/24	468356		-	-	-	Pass	3.1	2.9	7
L2432670-04	IA-03_20240611	947	6.0L Can	05/28/24	468356	L2427776-03	Pass	-29.2	-8.3	-	-	-	-
L2432670-05	IA-06_20240611	01576	Flow 4	05/28/24	468356		-	-	-	Pass	3.0	2.8	7
L2432670-05	IA-06_20240611	4251	6.0L Can	05/28/24	468356	L2427436-04	Pass	-29.2	-9.3	-	-	-	-
L2432670-06	IA-05_20240611	0475	Flow 4	05/28/24	468356		-	-	-	Pass	3.0	3.1	3
L2432670-06	IA-05_20240611	2967	6.0L Can	05/28/24	468356	L2427776-03	Pass	-29.2	-8.9	-	-	-	-
L2432670-07	IA-04_20240611	02002	Flow 4	05/28/24	468356		-	-	-	Pass	3.0	3.2	6
L2432670-07	IA-04_20240611	3085	6.0L Can	05/28/24	468356	L2427436-04	Pass	-29.2	-10.2	-	-	-	-
L2432670-08	IA-07_20240611	02452	Flow 5	05/28/24	468356		-	-	-	Pass	3.0	3.0	0

Project Name: BUD NORTH

Lab Number: L2432670

Project Number: 200112

Report Date: 06/21/24

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 Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2432670-08	IA-07_20240611	896	6.0L Can	05/28/24	468356	L2427776-03	Pass	-29.2	-12.2	-	-	-	-
L2432670-09	IA-08_20240611	01310	Flow 5	05/28/24	468356		-	-	-	Pass	3.1	3.3	6
L2432670-09	IA-08_20240611	3565	6.0L Can	05/28/24	468356	L2426712-04	Pass	-29.3	-11.1	-	-	-	-
L2432670-10	UNUSED CAN #3610	0629	Flow 5	05/28/24	468356		-	-	-	Pass	3.0	3.1	3
L2432670-10	UNUSED CAN #3610	3610	6.0L Can	05/28/24	468356	L2427436-04	Pass	-29.1	-30.8	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2426712
Report Date: 06/21/24

Air Canister Certification Results

Lab ID: L2426712-04
Client ID: CAN 4258 SHELF 51
Sample Location:

Date Collected: 05/14/24 16:00
Date Received: 05/15/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 05/16/24 22:22
Analyst: JFI

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2426712
Report Date: 06/21/24

Air Canister Certification Results

Lab ID: L2426712-04
Client ID: CAN 4258 SHELF 51
Sample Location:

Date Collected: 05/14/24 16:00
Date Received: 05/15/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2426712
Report Date: 06/21/24

Air Canister Certification Results

Lab ID: L2426712-04
Client ID: CAN 4258 SHELF 51
Sample Location:

Date Collected: 05/14/24 16:00
Date Received: 05/15/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2426712
Report Date: 06/21/24

Air Canister Certification Results

Lab ID: L2426712-04
Client ID: CAN 4258 SHELF 51
Sample Location:

Date Collected: 05/14/24 16:00
Date Received: 05/15/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2426712
Report Date: 06/21/24

Air Canister Certification Results

Lab ID: L2426712-04
Client ID: CAN 4258 SHELF 51
Sample Location:

Date Collected: 05/14/24 16:00
Date Received: 05/15/24
Field Prep: Not Specified

Sample Depth:

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

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	94		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2426712
Report Date: 06/21/24

Air Canister Certification Results

Lab ID: L2426712-04
Client ID: CAN 4258 SHELF 51
Sample Location:

Date Collected: 05/14/24 16:00
Date Received: 05/15/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 05/16/24 22:22
Analyst: JFI

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2426712
Report Date: 06/21/24

Air Canister Certification Results

Lab ID: L2426712-04
Client ID: CAN 4258 SHELF 51
Sample Location:

Date Collected: 05/14/24 16:00
Date Received: 05/15/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2426712
Report Date: 06/21/24

Air Canister Certification Results

Lab ID: L2426712-04
Client ID: CAN 4258 SHELF 51
Sample Location:

Date Collected: 05/14/24 16:00
Date Received: 05/15/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	96		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	95		60-140

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

Lab Number: L2427436
Report Date: 06/21/24

Air Canister Certification Results

Lab ID: L2427436-04
Client ID: CAN 978 SHELF 67
Sample Location:

Date Collected: 05/16/24 15:00
Date Received: 05/17/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 05/18/24 22:50
Analyst: JFI

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2427436
Report Date: 06/21/24

Air Canister Certification Results

Lab ID: L2427436-04
Client ID: CAN 978 SHELF 67
Sample Location:

Date Collected: 05/16/24 15:00
Date Received: 05/17/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

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

Lab Number: L2427436
Report Date: 06/21/24

Air Canister Certification Results

Lab ID: L2427436-04
Client ID: CAN 978 SHELF 67
Sample Location:

Date Collected: 05/16/24 15:00
Date Received: 05/17/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2427436
Report Date: 06/21/24

Air Canister Certification Results

Lab ID: L2427436-04
Client ID: CAN 978 SHELF 67
Sample Location:

Date Collected: 05/16/24 15:00
Date Received: 05/17/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2427436
Report Date: 06/21/24

Air Canister Certification Results

Lab ID: L2427436-04
Client ID: CAN 978 SHELF 67
Sample Location:

Date Collected: 05/16/24 15:00
Date Received: 05/17/24
Field Prep: Not Specified

Sample Depth:

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

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	98		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2427436
Report Date: 06/21/24

Air Canister Certification Results

Lab ID: L2427436-04
Client ID: CAN 978 SHELF 67
Sample Location:

Date Collected: 05/16/24 15:00
Date Received: 05/17/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 05/18/24 22:50
Analyst: JFI

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2427436
Report Date: 06/21/24

Air Canister Certification Results

Lab ID: L2427436-04
Client ID: CAN 978 SHELF 67
Sample Location:

Date Collected: 05/16/24 15:00
Date Received: 05/17/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2427436

Project Number: CANISTER QC BAT **Report Date:** 06/21/24

Air Canister Certification Results

Lab ID: L2427436-04
Client ID: CAN 978 SHELF 67
Sample Location:

Date Collected: 05/16/24 15:00
Date Received: 05/17/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	96		60-140

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

Lab Number: L2427776
Report Date: 06/21/24

Air Canister Certification Results

Lab ID: L2427776-03
Client ID: CAN 1674 SHELF 63
Sample Location:

Date Collected: 05/18/24 07:00
Date Received: 05/18/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 05/18/24 20:06
Analyst: JFI

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2427776
Report Date: 06/21/24

Air Canister Certification Results

Lab ID: L2427776-03
Client ID: CAN 1674 SHELF 63
Sample Location:

Date Collected: 05/18/24 07:00
Date Received: 05/18/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2427776
Report Date: 06/21/24

Air Canister Certification Results

Lab ID: L2427776-03
Client ID: CAN 1674 SHELF 63
Sample Location:

Date Collected: 05/18/24 07:00
Date Received: 05/18/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2427776
Report Date: 06/21/24

Air Canister Certification Results

Lab ID: L2427776-03
Client ID: CAN 1674 SHELF 63
Sample Location:

Date Collected: 05/18/24 07:00
Date Received: 05/18/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2427776
Report Date: 06/21/24

Air Canister Certification Results

Lab ID: L2427776-03
Client ID: CAN 1674 SHELF 63
Sample Location:

Date Collected: 05/18/24 07:00
Date Received: 05/18/24
Field Prep: Not Specified

Sample Depth:

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

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	98		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2427776
Report Date: 06/21/24

Air Canister Certification Results

Lab ID: L2427776-03
Client ID: CAN 1674 SHELF 63
Sample Location:

Date Collected: 05/18/24 07:00
Date Received: 05/18/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 05/18/24 20:06
Analyst: JFI

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2427776
Report Date: 06/21/24

Air Canister Certification Results

Lab ID: L2427776-03
Client ID: CAN 1674 SHELF 63
Sample Location:

Date Collected: 05/18/24 07:00
Date Received: 05/18/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2427776
Report Date: 06/21/24

Air Canister Certification Results

Lab ID: L2427776-03
Client ID: CAN 1674 SHELF 63
Sample Location:

Date Collected: 05/18/24 07:00
Date Received: 05/18/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	96		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	96		60-140

Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Present/Intact

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2432670-01A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2432670-02A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2432670-03A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2432670-04A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2432670-05A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2432670-06A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2432670-07A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2432670-08A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2432670-09A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2432670-10A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		CLEAN-FEE()

*Values in parentheses indicate holding time in days

Project Name:	BUD NORTH	**Lab Number:**	L2432670
Project Number:	200112	**Report Date:**	06/21/24

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: Data Usability Report

Project Name:	BUD NORTH	**Lab Number:**	L2432670
Project Number:	200112	**Report Date:**	06/21/24

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.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	BUD NORTH	**Lab Number:**	L2432670
Project Number:	200112	**Report Date:**	06/21/24

Data Qualifiers

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

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.)

Report Format: Data Usability Report

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

AIR ANALYSIS

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CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 6/12/24

ALPHA Job #: L2432670

Client Information

Client: AKRF, Inc.
Address: 440 Park Ave South Floor 7
New York, NY 10016
Phone:
Fax:
Email:
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Bud North
Project Location: 2-10 54th Ave, Long Island City, NY
Project #: 200112
Project Manager: Patrick Diggins
ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☐ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15 SIM	APH Subset Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
32670-01	AA-01_20240611	06/11/24	1404	1406	-29.60	-7.53	AA	KO	6L	3560	0200	X					Ambient Air (Outside)
02	IA-01_20240611	06/11/24	1414	1412	-29.67	-6.87	AA	KO	6L	4313	0413	X					Indoor Air
03	IA-02_20240611	06/11/24	1417	1324	-29.88	-5.85	AA	KO	6L	3295	01710	X					Indoor Air
04	IA-03_20240611	06/11/24	1422	1418	-29.80	-7.98	AA	KO	6L	947	01624	X					Indoor Air
05	IA-06_20240611	06/11/24	1423	1422	-29.68	-9.06	AA	KO	6L	0157	01251	X					Indoor Air
06	IA-05_20240611	06/11/24	1431	1436	-29.69	-8.71	AA	KO	6L	2967	04755	X					Indoor Air
07	IA-04_20240611	06/11/24	1426	1425	-29.75	-9.98	AA	KO	6L	3085	02002	X					Indoor Air
08	IA-07_20240611	06/11/24	1428	1427	-29.55	-11.27	AA	KO	6L	896	02425	X					Indoor Air
09	IA-08_20240611	06/11/24	1433	1438	-29.71	-10.44	AA	KO	6L	3565	01310	X					Indoor Air

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
6/12/24 0855			
Kristen O'Neill WiFi (Pace)	06/11/2024 1447	WiFi (Pace)	6/11/24 14:47
Anthony Green	6/11/24 19:00	Anthony Green	JUN 11 2024 2205
		Pace	6/12/24 0048

Form No: 101-02 Rev: (23-Sep-15)

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Alpha Analytical

Laboratory Code: 11148

SDG Number: L2432670

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Project Name: BUD NORTH
Project Number: 200112

Lab Number: L2432670
Report Date: 06/21/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2432670-01	AA-01_20240611	AIR	2-10 54TH AVE, LONG ISLAND CITY, NY	06/11/24 14:06	06/11/24
L2432670-02	IA-01_20240611	AIR	2-10 54TH AVE, LONG ISLAND CITY, NY	06/11/24 14:12	06/11/24
L2432670-03	IA-02_20240611	AIR	2-10 54TH AVE, LONG ISLAND CITY, NY	06/11/24 13:24	06/11/24
L2432670-04	IA-03_20240611	AIR	2-10 54TH AVE, LONG ISLAND CITY, NY	06/11/24 14:18	06/11/24
L2432670-05	IA-06_20240611	AIR	2-10 54TH AVE, LONG ISLAND CITY, NY	06/11/24 14:22	06/11/24
L2432670-06	IA-05_20240611	AIR	2-10 54TH AVE, LONG ISLAND CITY, NY	06/11/24 14:36	06/11/24
L2432670-07	IA-04_20240611	AIR	2-10 54TH AVE, LONG ISLAND CITY, NY	06/11/24 14:25	06/11/24
L2432670-08	IA-07_20240611	AIR	2-10 54TH AVE, LONG ISLAND CITY, NY	06/11/24 14:27	06/11/24
L2432670-09	IA-08_20240611	AIR	2-10 54TH AVE, LONG ISLAND CITY, NY	06/11/24 14:38	06/11/24
L2432670-10	UNUSED CAN #3610	AIR	2-10 54TH AVE, LONG ISLAND CITY, NY		06/11/24

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.

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on May 28, 2024. The canister certification data is provided as an addendum.

L2432670-02: 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.

L2432670-02D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L2432670-03D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L2432670-03: 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.

L2432670-05D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L2432670-05: 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.

Case Narrative (continued)

L2432670-06D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L2432670-06: 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.

L2432670-07: 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.

L2432670-07D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L2432670-08: 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.

L2432670-08D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

The WG1936045-3 LCS recovery for ethyl ether (167%), associated with L2432670-01 through -09, is above the upper 130% acceptance limit. All samples associated with this LCS do not have reportable amounts of this analyte.

Case Narrative (continued)

Sample Receipt

The flow controller ID number for the sample designated IA-07_20240611 (L2432670-08) is listed on the CoC as 02425 but should be 02452.

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: Christopher J Anderson Report Date: 06/21/24

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: Data Usability Report

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: Data Usability Report

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.)

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Volatile Organics Instruments

Volatile Organics:

Instrument: Agilent 7890 GC/5975C MSD	Columns (length x ID x df):
Trap: Supelco K Trap (VOACARB 3000)	RTX-VMS 20m x 0.18mm x 1um
Concentrator: EST Encon (or equivalent)	RTX-VMS 30m x 0.25mm x 1.4um
Autosampler: EST Centurion (or equivalent)	RTX-502.2 40m x 0.18mm x 1um
Purge time: 11 min	

Volatile Organics: VPH

Instrument: Agilent 6890 (or equivalent)	Column Type: Restek RTX 502.2
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 105 Meters
Concentrator: EST Encon (or equivalent)	df: 3.00 um
Autosampler: EST Centurion (or equivalent)	ID: 0.53mm

Volatile Organics: PIANO

Instrument: Agilent 7890 GC/5975C MSD	Column Type: DB-VRX
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 60 Meters
Concentrator: Tekmar Velocity / EST Encon	df: 1.40 um
Autosampler: Varian Archon / EST Centurion	ID: 0.25 mm
Purge time: 11 min	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	Column Type: Restek RTX-1
Autosampler: Entech 7016CA or 7016D	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 ul;2 uL LVI
Column Type: Restek RXI-5SILMS	df: 0.32 um
Column Length: 30 Meters	ID: 0.25 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

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

Pesticides/PCB/Herbicides:

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

Petroleum/EPH:

Instrument: Agilent 6890 w/FID / HP 5890 w/ FID	Injection Volume: 1uL
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 : L2432670

Account Name : AKRF, Inc.
Project Number : 200112
Project Name : BUD NORTH

Received : 11-JUN-2024
Reviewer : Dylan Snook

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
NA	Present/Intact/N/A			

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? L2432670-08: FC ID #02425 vs. FC ID #02452	**YES**
5) Are samples in appropriate containers for requested analysis?	**YES**
6) Are samples properly preserved for requested analysis?	**YES**
7) Are samples within holding time for requested analysis?	**YES**
8) All sampling equipment returned?	**YES**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	**NA**

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Jun 21 2024, 02:21 pm

Login Number: L2432670
Account: AKRF-M-2 AKRF, Inc.Project: 200112
Received: 11JUN24 Due Date: 18JUN24

Sample #	Client ID	Mat	PR	Collected
L2432670-01	AA-01_20240611	10	S0	11JUN24 14:06
TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 06/18/24				
ASP-B,CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2432670-02	IA-01_20240611	10	S0	11JUN24 14:12
TO15 SIM for 7 NYS DMCs Package Due Date: 06/18/24				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2432670-03	IA-02_20240611	10	S0	11JUN24 13:24
TO15 SIM for 7 NYS DMCs Package Due Date: 06/18/24				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2432670-04	IA-03_20240611	10	S0	11JUN24 14:18
TO15 SIM for 7 NYS DMCs Package Due Date: 06/18/24				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2432670-05	IA-06_20240611	10	S0	11JUN24 14:22
TO15 SIM for 7 NYS DMCs Package Due Date: 06/18/24				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2432670-06	IA-05_20240611	10	S0	11JUN24 14:36
TO15 SIM for 7 NYS DMCs Package Due Date: 06/18/24				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2432670-07	IA-04_20240611	10	S0	11JUN24 14:25
TO15 SIM for 7 NYS DMCs Package Due Date: 06/18/24				

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Jun 21 2024, 02:21 pm

Login Number: L2432670
Account: AKRF-M-2 AKRF, Inc.Project: 200112
Received: 11JUN24 Due Date: 18JUN24

Sample #	Client ID	Mat	PR	Collected
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2432670-08	IA-07_20240611	10	S0	11JUN24 14:27
TO15 SIM for 7 NYS DMCs Package Due Date: 06/18/24				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2432670-09	IA-08_20240611	10	S0	11JUN24 14:38
TO15 SIM for 7 NYS DMCs Package Due Date: 06/18/24				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2432670-10	UNUSED CAN #3610	10	S0	
TO15 SIM for 7 NYS DMCs Package Due Date: 06/18/24				
CAN-RENT,CLEAN-FEE,FLOW-RENT				

Logged By: Dylan Snook

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 6/12/24

ALPHA Job #: L2432670

Client Information

Client: AKRF, Inc.
Address: 440 Park Ave South Floor 7
New York, NY 10016
Phone:
Fax:
Email:
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Bud North
Project Location: 2-10 54th Ave, Long Island City, NY
Project #: 200112
Project Manager: Patrick Diggins
ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☐ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15 SIM	APH Subset Non-petroleum HCs	Fixed Gases ☐	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
32670-01	AA-01_20240611	06/11/24	1404	1406	-29.60	-7.53	AA	KO	6L	3560	0200	X					Ambient Air (Outside)
02	IA-01_20240611	06/11/24	1414	1412	-29.67	-6.87	AA	KO	6L	4313	0413	X					Indoor Air
03	IA-02_20240611	06/11/24	1417	1324	-29.88	-5.85	AA	KO	6L	3295	0710	X					Indoor Air
04	IA-03_20240611	06/11/24	1422	1418	-29.80	-7.98	AA	KO	6L	947	01624	X					Indoor Air
05	IA-06_20240611	06/11/24	1423	1422	-29.68	-9.06	AA	KO	6L	0157	01251	X					Indoor Air
06	IA-05_20240611	06/11/24	1431	1436	-29.69	-8.71	AA	KO	6L	2967	04754	X					Indoor Air
07	IA-04_20240611	06/11/24	1426	1425	-29.75	-9.98	AA	KO	6L	3085	02002	X					Indoor Air
08	IA-07_20240611	06/11/24	1428	1427	-29.55	-11.27	AA	KO	6L	896	02425	X					Indoor Air
09	IA-08_20240611	06/11/24	1433	1438	-29.71	-10.44	AA	KO	6L	3565	0310	X					Indoor Air

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

	Relinquished By:	Date/Time	Received By:	Date/Time:
6/12/24 0855	Kristen O'Neill WIFI (Pace)	06/11/2024 1447	WIFI (Pace)	6/11/24 14:47
6/11/24 1900	Anthony Green		Anthony Green Pace	JUN 11 2024 2205 6/12/24 0048

Supporting Documentation

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 Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2432670-01	AA-01_20240611	0200	Flow 5	05/28/24	468356		-	-	-	Pass	3.1	3.1	0
L2432670-01	AA-01_20240611	3560	6.0L Can	05/28/24	468356	L2427436-04	Pass	-29.1	-7.9	-	-	-	-
L2432670-02	IA-01_20240611	0413	Flow 5	05/28/24	468356		-	-	-	Pass	3.0	3.3	10
L2432670-02	IA-01_20240611	4313	6.0L Can	05/28/24	468356	L2427776-03	Pass	-29.2	-7.1	-	-	-	-
L2432670-03	IA-02_20240611	01710	Flow 4	05/28/24	468356		-	-	-	Pass	3.0	3.4	13
L2432670-03	IA-02_20240611	3295	6.0L Can	05/28/24	468356	L2426712-04	Pass	-29.2	-6.2	-	-	-	-
L2432670-04	IA-03_20240611	01624	Flow 5	05/28/24	468356		-	-	-	Pass	3.1	2.9	7
L2432670-04	IA-03_20240611	947	6.0L Can	05/28/24	468356	L2427776-03	Pass	-29.2	-8.3	-	-	-	-
L2432670-05	IA-06_20240611	01576	Flow 4	05/28/24	468356		-	-	-	Pass	3.0	2.8	7
L2432670-05	IA-06_20240611	4251	6.0L Can	05/28/24	468356	L2427436-04	Pass	-29.2	-9.3	-	-	-	-
L2432670-06	IA-05_20240611	0475	Flow 4	05/28/24	468356		-	-	-	Pass	3.0	3.1	3
L2432670-06	IA-05_20240611	2967	6.0L Can	05/28/24	468356	L2427776-03	Pass	-29.2	-8.9	-	-	-	-
L2432670-07	IA-04_20240611	02002	Flow 4	05/28/24	468356		-	-	-	Pass	3.0	3.2	6
L2432670-07	IA-04_20240611	3085	6.0L Can	05/28/24	468356	L2427436-04	Pass	-29.2	-10.2	-	-	-	-
L2432670-08	IA-07_20240611	02452	Flow 5	05/28/24	468356		-	-	-	Pass	3.0	3.0	0

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 Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2432670-08	IA-07_20240611	896	6.0L Can	05/28/24	468356	L2427776-03	Pass	-29.2	-12.2	-	-	-	-
L2432670-09	IA-08_20240611	01310	Flow 5	05/28/24	468356		-	-	-	Pass	3.1	3.3	6
L2432670-09	IA-08_20240611	3565	6.0L Can	05/28/24	468356	L2426712-04	Pass	-29.3	-11.1	-	-	-	-
L2432670-10	UNUSED CAN #3610	0629	Flow 5	05/28/24	468356		-	-	-	Pass	3.0	3.1	3
L2432670-10	UNUSED CAN #3610	3610	6.0L Can	05/28/24	468356	L2427436-04	Pass	-29.1	-30.8	-	-	-	-

Air Canister Certification Results

Lab ID: L2426712-04
Client ID: CAN 4258 SHELF 51
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 05/16/24 22:22
Analyst: JFI

Date Collected: 05/14/24 16:00
Date Received: 05/15/24
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Air Canister Certification Results

Lab ID: L2426712-04 Date Collected: 05/14/24 16:00
Client ID: CAN 4258 SHELF 51 Date Received: 05/15/24
Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1

Air Canister Certification Results

Lab ID: L2426712-04 Date Collected: 05/14/24 16:00
Client ID: CAN 4258 SHELF 51 Date Received: 05/15/24
Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air								
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1

Air Canister Certification Results

Lab ID: L2426712-04
Client ID: CAN 4258 SHELF 51
Sample Location:

Date Collected: 05/14/24 16:00
Date Received: 05/15/24
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air								
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Air Canister Certification Results

Lab ID: L2426712-04 Date Collected: 05/14/24 16:00
Client ID: CAN 4258 SHELF 51 Date Received: 05/15/24
Sample Location: Field Prep: Not Specified

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	94		60-140

Air Canister Certification Results

Lab ID: L2426712-04
Client ID: CAN 4258 SHELF 51
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 05/16/24 22:22
Analyst: JFI

Date Collected: 05/14/24 16:00
Date Received: 05/15/24
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Air Canister Certification Results

Lab ID: L2426712-04
Client ID: CAN 4258 SHELF 51
Sample Location:

Date Collected: 05/14/24 16:00
Date Received: 05/15/24
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1

Air Canister Certification Results

Lab ID: L2426712-04 Date Collected: 05/14/24 16:00
Client ID: CAN 4258 SHELF 51 Date Received: 05/15/24
Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM								
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	96		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	95		60-140

Air Canister Certification Results

Lab ID: L2427436-04
Client ID: CAN 978 SHELF 67
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 05/18/24 22:50
Analyst: JFI

Date Collected: 05/16/24 15:00
Date Received: 05/17/24
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Air Canister Certification Results

Lab ID: L2427436-04 Date Collected: 05/16/24 15:00
Client ID: CAN 978 SHELF 67 Date Received: 05/17/24
Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1

Air Canister Certification Results

Lab ID: L2427436-04 Date Collected: 05/16/24 15:00
Client ID: CAN 978 SHELF 67 Date Received: 05/17/24
Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air								
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1

Air Canister Certification Results

Lab ID: L2427436-04 Date Collected: 05/16/24 15:00
Client ID: CAN 978 SHELF 67 Date Received: 05/17/24
Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air								
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Air Canister Certification Results

Lab ID: L2427436-04 Date Collected: 05/16/24 15:00
Client ID: CAN 978 SHELF 67 Date Received: 05/17/24
Sample Location: Field Prep: Not Specified

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	98		60-140

Air Canister Certification Results

Lab ID: L2427436-04
Client ID: CAN 978 SHELF 67
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 05/18/24 22:50
Analyst: JFI

Date Collected: 05/16/24 15:00
Date Received: 05/17/24
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Air Canister Certification Results

Lab ID: L2427436-04 Date Collected: 05/16/24 15:00
Client ID: CAN 978 SHELF 67 Date Received: 05/17/24
Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1

Air Canister Certification Results

Lab ID: L2427436-04 Date Collected: 05/16/24 15:00
Client ID: CAN 978 SHELF 67 Date Received: 05/17/24
Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM								
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	96		60-140

Air Canister Certification Results

Lab ID: L2427776-03
Client ID: CAN 1674 SHELF 63
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 05/18/24 20:06
Analyst: JFI

Date Collected: 05/18/24 07:00
Date Received: 05/18/24
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Air Canister Certification Results

Lab ID: L2427776-03 Date Collected: 05/18/24 07:00
Client ID: CAN 1674 SHELF 63 Date Received: 05/18/24
Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1

Air Canister Certification Results

Lab ID: L2427776-03 Date Collected: 05/18/24 07:00
Client ID: CAN 1674 SHELF 63 Date Received: 05/18/24
Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air								
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1

Air Canister Certification Results

Lab ID: L2427776-03
Client ID: CAN 1674 SHELF 63
Sample Location:

Date Collected: 05/18/24 07:00
Date Received: 05/18/24
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air								
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Air Canister Certification Results

Lab ID: L2427776-03 Date Collected: 05/18/24 07:00
Client ID: CAN 1674 SHELF 63 Date Received: 05/18/24
Sample Location: Field Prep: Not Specified

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	98		60-140

Air Canister Certification Results

Lab ID: L2427776-03
Client ID: CAN 1674 SHELF 63
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 05/18/24 20:06
Analyst: JFI

Date Collected: 05/18/24 07:00
Date Received: 05/18/24
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Air Canister Certification Results

Lab ID: L2427776-03 Date Collected: 05/18/24 07:00
Client ID: CAN 1674 SHELF 63 Date Received: 05/18/24
Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1

Air Canister Certification Results

Lab ID: L2427776-03
Client ID: CAN 1674 SHELF 63
Sample Location:

Date Collected: 05/18/24 07:00
Date Received: 05/18/24
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM								
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	96		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	96		60-140

Organics

Volatile Organics in Air
TO-15 Low Level

Volatiles QC Summary

Lab Duplicate Sample Summary
Form 3
Air Volatiles

Client	: AKRF, Inc.	Lab Number	: L2432670
Project Name	: BUD NORTH	Project Number	: 200112
Client Sample ID	: IA-05_20240611	Matrix (Level)	: AIR (LOW)
Lab Sample ID	: L2432670-06	Analysis Date	: 06/18/24 22:27
Lab File ID	: R1548854	DUP File ID	: r1548855
Dup Sample ID	: WG1936045-5	DUP Analysis Date	: 06/18/24 23:05

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
Dichlorodifluoromethane	0.455	0.446	2	25
Chloromethane	0.638	0.650	2	25
Freon-114	ND	ND	NC	25
1,3-Butadiene	ND	ND	NC	25
Bromomethane	ND	ND	NC	25
Chloroethane	ND	ND	NC	25
Ethanol	296	287	3	25
Vinyl bromide	ND	ND	NC	25
Acetone	634E	622	2	25
Trichlorofluoromethane	0.203	0.204	0	25
Isopropanol	3.66	3.25	12	25
Tertiary butyl Alcohol	ND	ND	NC	25
Methylene chloride	ND	ND	NC	25
3-Chloropropene	ND	ND	NC	25
Carbon disulfide	ND	ND	NC	25
Freon-113	ND	ND	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
2-Butanone	1.89	1.85	2	25
Ethyl Acetate	ND	ND	NC	25
Chloroform	ND	ND	NC	25
Tetrahydrofuran	ND	ND	NC	25
1,2-Dichloroethane	ND	ND	NC	25
n-Hexane	ND	ND	NC	25

Lab Duplicate Sample Summary
Form 3
Air Volatiles

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Client Sample ID	: IA-05_20240611	**Matrix (Level)**	: AIR (LOW)
Lab Sample ID	: L2432670-06	**Analysis Date**	: 06/18/24 22:27
Lab File ID	: R1548854	**DUP File ID**	: r1548855
Dup Sample ID	: WG1936045-5	**DUP Analysis Date**	: 06/18/24 23:05

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
Benzene	0.267	0.263	2	25
Cyclohexane	ND	ND	NC	25
1,2-Dichloropropane	ND	ND	NC	25
Bromodichloromethane	ND	ND	NC	25
1,4-Dioxane	ND	ND	NC	25
2,2,4-Trimethylpentane	ND	ND	NC	25
Heptane	4.88	4.81	1	25
cis-1,3-Dichloropropene	ND	ND	NC	25
4-Methyl-2-pentanone	ND	ND	NC	25
trans-1,3-Dichloropropene	ND	ND	NC	25
1,1,2-Trichloroethane	ND	ND	NC	25
Toluene	6.18	6.00	3	25
2-Hexanone	ND	ND	NC	25
Dibromochloromethane	ND	ND	NC	25
1,2-Dibromoethane	ND	ND	NC	25
Chlorobenzene	ND	ND	NC	25
Ethylbenzene	1.98	1.91	4	25
p/m-Xylene	6.28	6.11	3	25
Bromoform	ND	ND	NC	25
Styrene	0.520	0.489	6	25
1,1,2,2-Tetrachloroethane	ND	ND	NC	25
o-Xylene	1.48	1.42	4	25
4-Ethyltoluene	ND	ND	NC	25
1,3,5-Trimethylbenzene	0.217	0.212	2	25
1,2,4-Trimethylbenzene	0.608	0.619	2	25

Lab Duplicate Sample Summary
Form 3
Air Volatiles

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Client Sample ID	: IA-05_20240611	**Matrix (Level)**	: AIR (LOW)
Lab Sample ID	: L2432670-06	**Analysis Date**	: 06/18/24 22:27
Lab File ID	: R1548854	**DUP File ID**	: r1548855
Dup Sample ID	: WG1936045-5	**DUP Analysis Date**	: 06/18/24 23:05

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
Benzyl chloride	ND	ND	NC	25
1,3-Dichlorobenzene	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
Hexachlorobutadiene	ND	ND	NC	25

Laboratory Control Sample Summary
Form 3
Air Volatiles

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Matrix (Level)	: AIR (LOW)		
LCS Sample ID	: WG1936045-3	**Analysis Date** : 06/18/24 14:34	**File ID** : r1548845
LCSD Sample ID	:	**Analysis Date** :	**File ID** :

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R	RPD	Recovery Limits	RPD Limit
Dichlorodifluoromethane	10	8.99	90				-	70-130	-
Chloromethane	10	10.7	107				-	70-130	-
Freon-114	10	10.8	108				-	70-130	-
Vinyl chloride	10	9.80	98				-	70-130	-
1,3-Butadiene	10	11.8	118				-	70-130	-
Bromomethane	10	9.39	94				-	70-130	-
Chloroethane	10	9.51	95				-	70-130	-
Ethanol	50	61.5	123				-	40-160	-
Vinyl bromide	10	8.18	82				-	70-130	-
Acetone	50	55.0	110				-	40-160	-
Trichlorofluoromethane	10	9.39	94				-	70-130	-
Isopropanol	25	24.0	96				-	40-160	-
1,1-Dichloroethene	10	9.83	98				-	70-130	-
Tertiary butyl Alcohol	10	8.80	88				-	70-130	-
Methylene chloride	10	10.1	101				-	70-130	-
3-Chloropropene	10	10.5	105				-	70-130	-
Carbon disulfide	10	8.64	86				-	70-130	-
Freon-113	10	8.82	88				-	70-130	-
trans-1,2-Dichloroethene	10	9.53	95				-	70-130	-
1,1-Dichloroethane	10	9.32	93				-	70-130	-
Methyl tert butyl ether	10	8.94	89				-	70-130	-
2-Butanone	10	9.85	98				-	70-130	-
cis-1,2-Dichloroethene	10	9.68	97				-	70-130	-
Ethyl Acetate	10	9.97	100				-	70-130	-
Chloroform	10	9.36	94				-	70-130	-
Tetrahydrofuran	10	9.76	98				-	70-130	-

Laboratory Control Sample Summary
Form 3
Air Volatiles

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Matrix (Level)	: AIR (LOW)		
LCS Sample ID	: WG1936045-3	**Analysis Date** : 06/18/24 14:34	**File ID** : r1548845
LCSD Sample ID	:	**Analysis Date** :	**File ID** :

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R	RPD	Recovery Limits	RPD Limit
1,2-Dichloroethane	10	9.30	93				-	70-130	-
n-Hexane	10	11.5	115				-	70-130	-
1,1,1-Trichloroethane	10	9.95	100				-	70-130	-
Benzene	10	10.2	102				-	70-130	-
Carbon tetrachloride	10	9.93	99				-	70-130	-
Cyclohexane	10	11.4	114				-	70-130	-
1,2-Dichloropropane	10	10.8	108				-	70-130	-
Bromodichloromethane	10	11.0	110				-	70-130	-
1,4-Dioxane	10	11.4	114				-	70-130	-
Trichloroethene	10	10.0	100				-	70-130	-
2,2,4-Trimethylpentane	10	11.8	118				-	70-130	-
Heptane	10	11.9	119				-	70-130	-
cis-1,3-Dichloropropene	10	10.9	109				-	70-130	-
4-Methyl-2-pentanone	10	11.9	119				-	70-130	-
trans-1,3-Dichloropropene	10	10.7	107				-	70-130	-
1,1,2-Trichloroethane	10	10.4	104				-	70-130	-
Toluene	10	9.30	93				-	70-130	-
2-Hexanone	10	11.2	112				-	70-130	-
Dibromochloromethane	10	9.78	98				-	70-130	-
1,2-Dibromoethane	10	8.95	90				-	70-130	-
Tetrachloroethene	10	8.81	88				-	70-130	-
Chlorobenzene	10	9.32	93				-	70-130	-
Ethylbenzene	10	9.60	96				-	70-130	-
p/m-Xylene	20	19.3	96				-	70-130	-
Bromoform	10	9.56	96				-	70-130	-
Styrene	10	9.13	91				-	70-130	-

Laboratory Control Sample Summary
Form 3
Air Volatiles

Client	: AKRF, Inc.			**Lab Number**	: L2432670
Project Name	: BUD NORTH			**Project Number**	: 200112
Matrix (Level)	: AIR (LOW)				
LCS Sample ID	: WG1936045-3	**Analysis Date**	: 06/18/24 14:34	**File ID**	: r1548845
LCSD Sample ID	:	**Analysis Date**	:	**File ID**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (ppbV)**	**Found (ppbV)**	**%R**	**True (ppbV)**	**Found (ppbV)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
1,1,2,2-Tetrachloroethane	10	10.4	104				-	70-130	-
o-Xylene	10	9.96	100				-	70-130	-
4-Ethyltoluene	10	8.93	89				-	70-130	-
1,3,5-Trimethylbenzene	10	9.04	90				-	70-130	-
1,2,4-Trimethylbenzene	10	9.38	94				-	70-130	-
Benzyl chloride	10	9.50	95				-	70-130	-
1,3-Dichlorobenzene	10	9.21	92				-	70-130	-
1,4-Dichlorobenzene	10	9.10	91				-	70-130	-
1,2-Dichlorobenzene	10	7.76	78				-	70-130	-
1,2,4-Trichlorobenzene	10	8.83	88				-	70-130	-
Naphthalene	10	8.80	88				-	70-130	-
Hexachlorobutadiene	10	8.35	84				-	70-130	-

Laboratory Control Sample Summary
Form 3
Air Volatiles

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Matrix (Level)	: AIR (LOW)		
LCS Sample ID	: WG1937252-3	**Analysis Date** : 06/20/24 13:18	**File ID** : r1548901
LCSD Sample ID	:	**Analysis Date** :	**File ID** :

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R	RPD	Recovery Limits	RPD Limit
Dichlorodifluoromethane	10	8.78	88				-	70-130	-
Chloromethane	10	9.90	99				-	70-130	-
Freon-114	10	10.1	101				-	70-130	-
Vinyl chloride	10	9.28	93				-	70-130	-
1,3-Butadiene	10	11.3	113				-	70-130	-
Bromomethane	10	8.93	89				-	70-130	-
Chloroethane	10	8.81	88				-	70-130	-
Ethanol	50	64.7	129				-	40-160	-
Vinyl bromide	10	7.44	74				-	70-130	-
Acetone	50	51.4	103				-	40-160	-
Trichlorofluoromethane	10	9.26	93				-	70-130	-
Isopropanol	25	22.2	89				-	40-160	-
1,1-Dichloroethene	10	9.28	93				-	70-130	-
Tertiary butyl Alcohol	10	8.34	83				-	70-130	-
Methylene chloride	10	10.0	100				-	70-130	-
3-Chloropropene	10	9.27	93				-	70-130	-
Carbon disulfide	10	7.97	80				-	70-130	-
Freon-113	10	7.73	77				-	70-130	-
trans-1,2-Dichloroethene	10	8.82	88				-	70-130	-
1,1-Dichloroethane	10	8.45	84				-	70-130	-
Methyl tert butyl ether	10	8.14	81				-	70-130	-
2-Butanone	10	8.89	89				-	70-130	-
cis-1,2-Dichloroethene	10	8.98	90				-	70-130	-
Ethyl Acetate	10	8.88	89				-	70-130	-
Chloroform	10	9.42	94				-	70-130	-
Tetrahydrofuran	10	8.69	87				-	70-130	-

Laboratory Control Sample Summary
Form 3
Air Volatiles

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Matrix (Level)	: AIR (LOW)		
LCS Sample ID	: WG1937252-3	**Analysis Date** : 06/20/24 13:18	**File ID** : r1548901
LCSD Sample ID	:	**Analysis Date** :	**File ID** :

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R	RPD	Recovery Limits	RPD Limit
1,2-Dichloroethane	10	9.09	91				-	70-130	-
n-Hexane	10	12.0	120				-	70-130	-
1,1,1-Trichloroethane	10	10.1	101				-	70-130	-
Benzene	10	10.2	102				-	70-130	-
Carbon tetrachloride	10	10.9	109				-	70-130	-
Cyclohexane	10	11.9	119				-	70-130	-
1,2-Dichloropropane	10	10.2	102				-	70-130	-
Bromodichloromethane	10	12.0	120				-	70-130	-
1,4-Dioxane	10	11.5	115				-	70-130	-
Trichloroethene	10	9.81	98				-	70-130	-
2,2,4-Trimethylpentane	10	12.0	120				-	70-130	-
Heptane	10	11.5	115				-	70-130	-
cis-1,3-Dichloropropene	10	10.7	107				-	70-130	-
4-Methyl-2-pentanone	10	11.5	115				-	70-130	-
trans-1,3-Dichloropropene	10	10.8	108				-	70-130	-
1,1,2-Trichloroethane	10	9.71	97				-	70-130	-
Toluene	10	8.31	83				-	70-130	-
2-Hexanone	10	10.0	100				-	70-130	-
Dibromochloromethane	10	8.97	90				-	70-130	-
1,2-Dibromoethane	10	8.03	80				-	70-130	-
Tetrachloroethene	10	7.73	77				-	70-130	-
Chlorobenzene	10	8.23	82				-	70-130	-
Ethylbenzene	10	8.31	83				-	70-130	-
p/m-Xylene	20	17.1	86				-	70-130	-
Bromoform	10	8.36	84				-	70-130	-
Styrene	10	7.61	76				-	70-130	-

Laboratory Control Sample Summary
Form 3
Air Volatiles

Client	: AKRF, Inc.			**Lab Number**	: L2432670
Project Name	: BUD NORTH			**Project Number**	: 200112
Matrix (Level)	: AIR (LOW)				
LCS Sample ID	: WG1937252-3	**Analysis Date**	: 06/20/24 13:18	**File ID**	: r1548901
LCSD Sample ID	:	**Analysis Date**	:	**File ID**	:

	Laboratory Control Sample				Laboratory Control Duplicate					
Parameter	**True (ppbV)**	**Found (ppbV)**	**%R**		**True (ppbV)**	**Found (ppbV)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
1,1,2,2-Tetrachloroethane	10	9.52	95					-	70-130	-
o-Xylene	10	8.85	88					-	70-130	-
4-Ethyltoluene	10	7.82	78					-	70-130	-
1,3,5-Trimethylbenzene	10	7.84	78					-	70-130	-
1,2,4-Trimethylbenzene	10	8.36	84					-	70-130	-
Benzyl chloride	10	8.37	84					-	70-130	-
1,3-Dichlorobenzene	10	8.02	80					-	70-130	-
1,4-Dichlorobenzene	10	7.89	79					-	70-130	-
1,2-Dichlorobenzene	10	6.53	65	Q				-	70-130	-
1,2,4-Trichlorobenzene	10	7.61	76					-	70-130	-
Naphthalene	10	7.64	76					-	70-130	-
Hexachlorobutadiene	10	7.42	74					-	70-130	-

Method Blank Summary
Form 4
Air Volatiles

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab Sample ID	: WG1936045-4	**Lab File ID**	: r1548848
Instrument ID	: AIRLAB15		
Matrix	: AIR	**Analysis Date**	: 06/18/24 18:43

Client Sample No.	Lab Sample ID	Analysis Date
WG1936045-3LCS	WG1936045-3	06/18/24 14:34
AA-01_20240611	L2432670-01	06/18/24 19:20
IA-02_20240611	L2432670-03	06/18/24 20:35
IA-03_20240611	L2432670-04	06/18/24 21:12
IA-06_20240611	L2432670-05	06/18/24 21:50
IA-05_20240611	L2432670-06	06/18/24 22:27
IA-05_20240611DUP	WG1936045-5	06/18/24 23:05
IA-04_20240611	L2432670-07	06/18/24 23:43
IA-07_20240611	L2432670-08	06/19/24 00:21
IA-08_20240611	L2432670-09	06/19/24 00:59
IA-01_20240611	L2432670-02	06/19/24 04:07

Method Blank Summary
Form 4
Air Volatiles

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab Sample ID	: WG1937252-4	**Lab File ID**	: r1548903
Instrument ID	: AIRLAB15		
Matrix	: AIR	**Analysis Date**	: 06/20/24 15:21

Client Sample No.	Lab Sample ID	Analysis Date
WG1937252-3LCS	WG1937252-3	06/20/24 13:18
IA-02_20240611	L2432670-03D	06/20/24 19:12
IA-06_20240611	L2432670-05D	06/20/24 19:45
IA-05_20240611	L2432670-06D	06/20/24 20:19
IA-04_20240611	L2432670-07D	06/20/24 20:53
IA-07_20240611	L2432670-08D	06/20/24 21:26
IA-01_20240611	L2432670-02D	06/20/24 22:00
AIR DUMMY 493DUP	WG1937252-5D	06/21/24 07:42

Instrument Performance Check (Tune) Summary
Form 5
Air Volatiles
Bromofluorobenzene (BFB)

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Instrument ID	: AIRLAB15	**Analysis Date**	: 04/26/24 19:53
Tune Standard	: WG1914187-1	**Tune File ID**	: r1547516_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	12.5
75	30.0 - 66.0% of mass 95	33.7
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 (.5)1
174	50.0 - 120.0% of mass 95	67.2
175	4.0 - 9.0% of mass 174	4.5 (6.7)1
176	93.0 - 101% of mass 174	63.8 (94.9)1
177	5.0 - 9.0% of mass 176	4.2 (6.6)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.2	R1823159-1	R1547520	04/26/24 22:31
STD0.5	R1823159-2	R1547521	04/26/24 23:12
STD1.0	R1823159-3	R1547522	04/26/24 23:56
STD5.0	R1823159-4	R1547523	04/27/24 00:38
STD010	R1823159-5	R1547524	04/27/24 01:22
STD020	R1823159-6	R1547525	04/27/24 02:02
STD050	R1823159-7	R1547526	04/27/24 02:43
STD100	R1823159-8	R1547527	04/27/24 03:27
ICV QUANT	R1823159-9	R1547530	04/27/24 10:24

Instrument Performance Check (Tune) Summary
Form 5
Air Volatiles
Bromofluorobenzene (BFB)

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Instrument ID	: AIRLAB15	**Analysis Date**	: 06/18/24 13:54
Tune Standard	: WG1936045-1	**Tune File ID**	: r1548844_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	13.6
75	30.0 - 66.0% of mass 95	33.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.4 (.6)1
174	50.0 - 120.0% of mass 95	64
175	4.0 - 9.0% of mass 174	4.4 (6.9)1
176	93.0 - 101% of mass 174	63.3 (98.9)1
177	5.0 - 9.0% of mass 176	4.2 (6.6)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1936045-2CCAL	WG1936045-2	R1548845	06/18/24 14:34
WG1936045-3LCS	WG1936045-3	R1548845	06/18/24 14:34
WG1936045-4BLANK	WG1936045-4	R1548848	06/18/24 18:43
AA-01_20240611	L2432670-01	R1548849	06/18/24 19:20
IA-02_20240611	L2432670-03	R1548851	06/18/24 20:35
IA-03_20240611	L2432670-04	R1548852	06/18/24 21:12
IA-06_20240611	L2432670-05	R1548853	06/18/24 21:50
IA-05_20240611	L2432670-06	R1548854	06/18/24 22:27
WG1936045-5DUP	WG1936045-5	R1548855	06/18/24 23:05
IA-04_20240611	L2432670-07	R1548856	06/18/24 23:43
IA-07_20240611	L2432670-08	R1548857	06/19/24 00:21
IA-08_20240611	L2432670-09	R1548858	06/19/24 00:59
IA-01_20240611	L2432670-02	R1548863	06/19/24 04:07

Instrument Performance Check (Tune) Summary
Form 5
Air Volatiles
Bromofluorobenzene (BFB)

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Instrument ID	: AIRLAB15	**Analysis Date**	: 06/20/24 11:21
Tune Standard	: WG1937252-1	**Tune File ID**	: r1548898_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	17.8
75	30.0 - 66.0% of mass 95	40.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.3 (.5)1
174	50.0 - 120.0% of mass 95	64.1
175	4.0 - 9.0% of mass 174	4.4 (6.9)1
176	93.0 - 101% of mass 174	61 (95.2)1
177	5.0 - 9.0% of mass 176	3.9 (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
WG1937252-2CCAL	WG1937252-2	R1548900	06/20/24 12:39
WG1937252-3LCS	WG1937252-3	R1548901	06/20/24 13:18
WG1937252-4BLANK	WG1937252-4	R1548903	06/20/24 15:21
IA-02_20240611	L2432670-03D	R1548906	06/20/24 19:12
IA-06_20240611	L2432670-05D	R1548907	06/20/24 19:45
IA-05_20240611	L2432670-06D	R1548908	06/20/24 20:19
IA-04_20240611	L2432670-07D	R1548909	06/20/24 20:53
IA-07_20240611	L2432670-08D	R1548910	06/20/24 21:26
IA-01_20240611	L2432670-02D	R1548911	06/20/24 22:00
WG1937252-5DUP	WG1937252-5D	R1548918	06/21/24 07:42

Internal Standard Area and RT Summary
Form 8a
Air Volatiles

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Instrument ID	: AIRLAB15	**Analysis Date**	: 06/18/24 14:34:00
Sample No	: WG1936045-2	**Lab File ID**	: R1548845

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG1936045-2	309658	9.14	833704	11.37	146665	16.06
Upper Limit	433521	9.47	1167186	11.70	205331	16.39
Lower Limit	185795	8.81	500222	11.04	87999	15.73
Sample ID						
WG1936045-3 LCS	309658	9.14	833704	11.37	146665	16.06
WG1936045-4 BLANK	295104	9.14	791603	11.37	136501	16.06
AA-01_20240611	275987	9.14	739263	11.37	129164	16.06
IA-02_20240611	286726	9.14	773758	11.37	141021	16.06
IA-03_20240611	287326	9.14	766378	11.37	137767	16.06
IA-06_20240611	286266	9.14	754446	11.37	134760	16.06
IA-05_20240611	286720	9.14	750850	11.37	132385	16.06
IA-05_20240611 DUP	291557	9.14	756558	11.37	135899	16.06
IA-04_20240611	288936	9.14	748726	11.37	136047	16.06
IA-07_20240611	287432	9.14	733598	11.37	135207	16.06
IA-08_20240611	289781	9.14	741727	11.37	134974	16.05
IA-01_20240611	300180	9.14	780570	11.37	147137	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	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Instrument ID	: AIRLAB15	**Analysis Date**	: 06/20/24 12:39:00
Sample No	: WG1937252-2	**Lab File ID**	: R1548900

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG1937252-2	349671	9.13	849696	11.37	163897	16.05
Upper Limit	489539	9.46	1189574	11.70	229456	16.38
Lower Limit	209803	8.80	509818	11.04	98338	15.72
Sample ID						
WG1937252-3 LCS	344976	9.13	870249	11.37	165108	16.06
WG1937252-4 BLANK	321888	9.13	806801	11.37	151383	16.06
IA-02_20240611	309318	9.13	761450	11.35	145188	16.06
IA-06_20240611	311838	9.13	754568	11.36	143788	16.06
IA-05_20240611	311437	9.13	739890	11.36	136454	16.06
IA-04_20240611	309687	9.13	734092	11.36	137579	16.06
IA-07_20240611	307590	9.13	721555	11.35	139413	16.05
IA-01_20240611	337596	9.13	819872	11.37	156345	16.05
AIR DUMMY 493 DUP	333104	9.14	821939	11.37	161536	16.06

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
Page: 1

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

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	GCDAI06	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			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
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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		
1,2,3-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*		

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

Client	: AKRF, Inc.	Lab Number	: L2432670
Project Name	: BUD NORTH	Project Number	: 200112
Lab ID	: L2432670-01	Date Collected	: 06/11/24 14:06
Client ID	: AA-01_20240611	Date Received	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	Date Analyzed	: 06/18/24 19:20
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: JMB
Lab File ID	: R1548849	Instrument ID	: AIRLAB15
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.445	0.200	--	2.20	0.989	--	
74-87-3	Chloromethane	0.618	0.200	--	1.28	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	11.2	5.00	--	21.1	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	10.1	1.00	--	24.0	2.38	--	
75-69-4	Trichlorofluoromethane	0.207	0.200	--	1.16	1.12	--	
67-63-0	Isopropanol	0.851	0.500	--	2.09	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: L2432670-01	**Date Collected**	: 06/11/24 14:06
Client ID	: AA-01_20240611	**Date Received**	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	**Date Analyzed**	: 06/18/24 19:20
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: JMB
Lab File ID	: R1548849	**Instrument ID**	: AIRLAB15
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	0.474	0.200	--	1.94	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.273	0.200	--	1.03	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: L2432670-01	**Date Collected**	: 06/11/24 14:06
Client ID	: AA-01_20240611	**Date Received**	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	**Date Analyzed**	: 06/18/24 19:20
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: JMB
Lab File ID	: R1548849	**Instrument ID**	: AIRLAB15
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2432670
Project Name	: BUD NORTH	Project Number	: 200112
Lab ID	: L2432670-02	Date Collected	: 06/11/24 14:12
Client ID	: IA-01_20240611	Date Received	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	Date Analyzed	: 06/19/24 04:07
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: JMB
Lab File ID	: R1548863	Instrument ID	: AIRLAB15
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.463	0.200	--	2.29	0.989	--	
74-87-3	Chloromethane	0.614	0.200	--	1.27	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	555	5.00	--	1050	9.42	--	E
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	25.6	1.00	--	60.8	2.38	--	
75-69-4	Trichlorofluoromethane	0.211	0.200	--	1.19	1.12	--	
67-63-0	Isopropanol	9.07	0.500	--	22.3	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	893	0.500	--	2630	1.47	--	E
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: L2432670-02	**Date Collected**	: 06/11/24 14:12
Client ID	: IA-01_20240611	**Date Received**	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	**Date Analyzed**	: 06/19/24 04:07
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: JMB
Lab File ID	: R1548863	**Instrument ID**	: AIRLAB15
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	12.7	0.200	--	52.0	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	3.58	0.200	--	13.5	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	1.78	0.200	--	7.73	0.869	--	
179601-23-1	p/m-Xylene	6.62	0.400	--	28.8	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	1.54	0.200	--	6.69	0.869	--	
622-96-8	4-Ethyltoluene	0.345	0.200	--	1.70	0.983	--	

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: L2432670-02	**Date Collected**	: 06/11/24 14:12
Client ID	: IA-01_20240611	**Date Received**	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	**Date Analyzed**	: 06/19/24 04:07
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: JMB
Lab File ID	: R1548863	**Instrument ID**	: AIRLAB15
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
108-67-8	1,3,5-Trimethylbenzene	0.484	0.200	--	2.38	0.983	--	
95-63-6	1,2,4-Trimethylbenzene	1.24	0.200	--	6.10	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	0.413	0.200	--	2.17	1.05	--	
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: L2432670-02D	**Date Collected**	: 06/11/24 14:12
Client ID	: IA-01_20240611	**Date Received**	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	**Date Analyzed**	: 06/20/24 22:00
Sample Matrix	: AIR	**Dilution Factor**	: 75.76
Analytical Method	: 48,TO-15	**Analyst**	: TPH
Lab File ID	: R1548911	**Instrument ID**	: AIRLAB15
Sample Amount	: 3.30 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
64-17-5	Ethanol	710	379	--	1340	714	--	
78-93-3	2-Butanone	1440	37.9	--	4250	112	--	

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: L2432670-03	**Date Collected**	: 06/11/24 13:24
Client ID	: IA-02_20240611	**Date Received**	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	**Date Analyzed**	: 06/18/24 20:35
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: JMB
Lab File ID	: R1548851	**Instrument ID**	: AIRLAB15
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.444	0.200	--	2.20	0.989	--	
74-87-3	Chloromethane	0.594	0.200	--	1.23	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	586	5.00	--	1100	9.42	--	E
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	211	1.00	--	501	2.38	--	
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	3.49	0.500	--	8.58	1.23	--	
75-65-0	Tertiary butyl Alcohol	6.44	0.500	--	19.5	1.52	--	
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	17.4	0.500	--	51.3	1.47	--	
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: L2432670-03	**Date Collected**	: 06/11/24 13:24
Client ID	: IA-02_20240611	**Date Received**	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	**Date Analyzed**	: 06/18/24 20:35
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: JMB
Lab File ID	: R1548851	**Instrument ID**	: AIRLAB15
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	0.261	0.200	--	0.834	0.639	--	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	7.56	0.200	--	31.0	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	40.4	0.200	--	152	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	7.96	0.200	--	34.6	0.869	--	
179601-23-1	p/m-Xylene	32.6	0.400	--	142	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	0.967	0.200	--	4.12	0.852	--	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	9.08	0.200	--	39.4	0.869	--	
622-96-8	4-Ethyltoluene	5.99	0.200	--	29.4	0.983	--	

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: L2432670-03	**Date Collected**	: 06/11/24 13:24
Client ID	: IA-02_20240611	**Date Received**	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	**Date Analyzed**	: 06/18/24 20:35
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: JMB
Lab File ID	: R1548851	**Instrument ID**	: AIRLAB15
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
108-67-8	1,3,5-Trimethylbenzene	11.1	0.200	--	54.6	0.983	--	
95-63-6	1,2,4-Trimethylbenzene	29.5	0.200	--	145	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: L2432670-03D	**Date Collected**	: 06/11/24 13:24
Client ID	: IA-02_20240611	**Date Received**	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	**Date Analyzed**	: 06/20/24 19:12
Sample Matrix	: AIR	**Dilution Factor**	: 5
Analytical Method	: 48,TO-15	**Analyst**	: TPH
Lab File ID	: R1548906	**Instrument ID**	: AIRLAB15
Sample Amount	: 50.0 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
64-17-5	Ethanol	675	25.0	--	1270	47.1	--	

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2432670
Project Name	: BUD NORTH	Project Number	: 200112
Lab ID	: L2432670-04	Date Collected	: 06/11/24 14:18
Client ID	: IA-03_20240611	Date Received	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	Date Analyzed	: 06/18/24 21:12
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: JMB
Lab File ID	: R1548852	Instrument ID	: AIRLAB15
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.455	0.200	--	2.25	0.989	--	
74-87-3	Chloromethane	0.643	0.200	--	1.33	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	335	5.00	--	631	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	482	1.00	--	1140	2.38	--	
75-69-4	Trichlorofluoromethane	0.206	0.200	--	1.16	1.12	--	
67-63-0	Isopropanol	15.4	0.500	--	37.9	1.23	--	
75-65-0	Tertiary butyl Alcohol	2.51	0.500	--	7.61	1.52	--	
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	17.0	0.500	--	50.1	1.47	--	
141-78-6	Ethyl Acetate	0.577	0.500	--	2.08	1.80	--	
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	1.30	0.500	--	3.83	1.47	--	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: L2432670-04	**Date Collected**	: 06/11/24 14:18
Client ID	: IA-03_20240611	**Date Received**	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	**Date Analyzed**	: 06/18/24 21:12
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: JMB
Lab File ID	: R1548852	**Instrument ID**	: AIRLAB15
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	0.200	0.200	--	0.639	0.639	--	
110-82-7	Cyclohexane	0.222	0.200	--	0.764	0.688	--	
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	0.393	0.200	--	1.42	0.721	--	
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	5.74	0.200	--	23.5	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	11.2	0.200	--	42.2	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	1.77	0.200	--	7.69	0.869	--	
179601-23-1	p/m-Xylene	5.76	0.400	--	25.0	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	0.457	0.200	--	1.95	0.852	--	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	1.32	0.200	--	5.73	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: L2432670-04	**Date Collected**	: 06/11/24 14:18
Client ID	: IA-03_20240611	**Date Received**	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	**Date Analyzed**	: 06/18/24 21:12
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: JMB
Lab File ID	: R1548852	**Instrument ID**	: AIRLAB15
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	0.246	0.200	--	1.21	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2432670
Project Name	: BUD NORTH	Project Number	: 200112
Lab ID	: L2432670-05	Date Collected	: 06/11/24 14:22
Client ID	: IA-06_20240611	Date Received	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	Date Analyzed	: 06/18/24 21:50
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: JMB
Lab File ID	: R1548853	Instrument ID	: AIRLAB15
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.455	0.200	--	2.25	0.989	--	
74-87-3	Chloromethane	0.630	0.200	--	1.30	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	344	5.00	--	648	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	530	1.00	--	1260	2.38	--	E
75-69-4	Trichlorofluoromethane	0.205	0.200	--	1.15	1.12	--	
67-63-0	Isopropanol	12.8	0.500	--	31.5	1.23	--	
75-65-0	Tertiary butyl Alcohol	1.96	0.500	--	5.94	1.52	--	
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	12.4	0.500	--	36.6	1.47	--	
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	0.879	0.500	--	2.59	1.47	--	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: L2432670-05	**Date Collected**	: 06/11/24 14:22
Client ID	: IA-06_20240611	**Date Received**	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	**Date Analyzed**	: 06/18/24 21:50
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: JMB
Lab File ID	: R1548853	**Instrument ID**	: AIRLAB15
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	0.208	0.200	--	0.664	0.639	--	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	0.305	0.200	--	1.10	0.721	--	
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	6.41	0.200	--	26.3	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	11.8	0.200	--	44.5	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	3.04	0.200	--	13.2	0.869	--	
179601-23-1	p/m-Xylene	9.64	0.400	--	41.9	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	0.472	0.200	--	2.01	0.852	--	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	2.09	0.200	--	9.08	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: L2432670-05	**Date Collected**	: 06/11/24 14:22
Client ID	: IA-06_20240611	**Date Received**	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	**Date Analyzed**	: 06/18/24 21:50
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: JMB
Lab File ID	: R1548853	**Instrument ID**	: AIRLAB15
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	0.210	0.200	--	1.03	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: L2432670-05D	**Date Collected**	: 06/11/24 14:22
Client ID	: IA-06_20240611	**Date Received**	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	**Date Analyzed**	: 06/20/24 19:45
Sample Matrix	: AIR	**Dilution Factor**	: 5
Analytical Method	: 48,TO-15	**Analyst**	: TPH
Lab File ID	: R1548907	**Instrument ID**	: AIRLAB15
Sample Amount	: 50.0 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
67-64-1	Acetone	496	5.00	--	1180	11.9	--	

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2432670
Project Name	: BUD NORTH	Project Number	: 200112
Lab ID	: L2432670-06	Date Collected	: 06/11/24 14:36
Client ID	: IA-05_20240611	Date Received	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	Date Analyzed	: 06/18/24 22:27
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: JMB
Lab File ID	: R1548854	Instrument ID	: AIRLAB15
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.455	0.200	--	2.25	0.989	--	
74-87-3	Chloromethane	0.638	0.200	--	1.32	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	296	5.00	--	558	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	634	1.00	--	1510	2.38	--	E
75-69-4	Trichlorofluoromethane	0.203	0.200	--	1.14	1.12	--	
67-63-0	Isopropanol	3.66	0.500	--	9.00	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	1.89	0.500	--	5.57	1.47	--	
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: L2432670-06	**Date Collected**	: 06/11/24 14:36
Client ID	: IA-05_20240611	**Date Received**	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	**Date Analyzed**	: 06/18/24 22:27
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: JMB
Lab File ID	: R1548854	**Instrument ID**	: AIRLAB15
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	0.267	0.200	--	0.853	0.639	--	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	4.88	0.200	--	20.0	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	6.18	0.200	--	23.3	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	1.98	0.200	--	8.60	0.869	--	
179601-23-1	p/m-Xylene	6.28	0.400	--	27.3	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	0.520	0.200	--	2.21	0.852	--	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	1.48	0.200	--	6.43	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: L2432670-06	**Date Collected**	: 06/11/24 14:36
Client ID	: IA-05_20240611	**Date Received**	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	**Date Analyzed**	: 06/18/24 22:27
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: JMB
Lab File ID	: R1548854	**Instrument ID**	: AIRLAB15
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
108-67-8	1,3,5-Trimethylbenzene	0.217	0.200	--	1.07	0.983	--	
95-63-6	1,2,4-Trimethylbenzene	0.608	0.200	--	2.99	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: L2432670-06D	**Date Collected**	: 06/11/24 14:36
Client ID	: IA-05_20240611	**Date Received**	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	**Date Analyzed**	: 06/20/24 20:19
Sample Matrix	: AIR	**Dilution Factor**	: 5
Analytical Method	: 48,TO-15	**Analyst**	: TPH
Lab File ID	: R1548908	**Instrument ID**	: AIRLAB15
Sample Amount	: 50.0 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
67-64-1	Acetone	645	5.00	--	1530	11.9	--	

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2432670
Project Name	: BUD NORTH	Project Number	: 200112
Lab ID	: L2432670-07	Date Collected	: 06/11/24 14:25
Client ID	: IA-04_20240611	Date Received	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	Date Analyzed	: 06/18/24 23:43
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: JMB
Lab File ID	: R1548856	Instrument ID	: AIRLAB15
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.460	0.200	--	2.27	0.989	--	
74-87-3	Chloromethane	0.637	0.200	--	1.32	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	898	5.00	--	1690	9.42	--	E
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	200	1.00	--	475	2.38	--	
75-69-4	Trichlorofluoromethane	0.200	0.200	--	1.12	1.12	--	
67-63-0	Isopropanol	21.6	0.500	--	53.1	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	10.5	0.500	--	31.0	1.47	--	
141-78-6	Ethyl Acetate	0.847	0.500	--	3.05	1.80	--	
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2432670
Project Name	: BUD NORTH	Project Number	: 200112
Lab ID	: L2432670-07	Date Collected	: 06/11/24 14:25
Client ID	: IA-04_20240611	Date Received	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	Date Analyzed	: 06/18/24 23:43
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: JMB
Lab File ID	: R1548856	Instrument ID	: AIRLAB15
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
110-54-3	n-Hexane	0.214	0.200	--	0.754	0.705	--	
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U
110-82-7	Cyclohexane	0.410	0.200	--	1.41	0.688	--	
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	6.29	0.200	--	25.8	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	7.76	0.200	--	29.2	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	0.308	0.200	--	1.34	0.869	--	
179601-23-1	p/m-Xylene	1.09	0.400	--	4.73	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	0.334	0.200	--	1.42	0.852	--	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	0.325	0.200	--	1.41	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: L2432670-07	**Date Collected**	: 06/11/24 14:25
Client ID	: IA-04_20240611	**Date Received**	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	**Date Analyzed**	: 06/18/24 23:43
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: JMB
Lab File ID	: R1548856	**Instrument ID**	: AIRLAB15
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: L2432670-07D	**Date Collected**	: 06/11/24 14:25
Client ID	: IA-04_20240611	**Date Received**	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	**Date Analyzed**	: 06/20/24 20:53
Sample Matrix	: AIR	**Dilution Factor**	: 5
Analytical Method	: 48,TO-15	**Analyst**	: TPH
Lab File ID	: R1548909	**Instrument ID**	: AIRLAB15
Sample Amount	: 50.0 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
64-17-5	Ethanol	1120	25.0	--	2110	47.1	--	

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2432670
Project Name	: BUD NORTH	Project Number	: 200112
Lab ID	: L2432670-08	Date Collected	: 06/11/24 14:27
Client ID	: IA-07_20240611	Date Received	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	Date Analyzed	: 06/19/24 00:21
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: JMB
Lab File ID	: R1548857	Instrument ID	: AIRLAB15
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.492	0.200	--	2.43	0.989	--	
74-87-3	Chloromethane	0.668	0.200	--	1.38	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	816	5.00	--	1540	9.42	--	E
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	239	1.00	--	568	2.38	--	
75-69-4	Trichlorofluoromethane	0.264	0.200	--	1.48	1.12	--	
67-63-0	Isopropanol	27.7	0.500	--	68.1	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	18.9	0.500	--	55.7	1.47	--	
141-78-6	Ethyl Acetate	1.23	0.500	--	4.43	1.80	--	
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	7.11	0.500	--	21.0	1.47	--	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: L2432670-08	**Date Collected**	: 06/11/24 14:27
Client ID	: IA-07_20240611	**Date Received**	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	**Date Analyzed**	: 06/19/24 00:21
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: JMB
Lab File ID	: R1548857	**Instrument ID**	: AIRLAB15
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
110-54-3	n-Hexane	0.225	0.200	--	0.793	0.705	--	
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U
110-82-7	Cyclohexane	0.441	0.200	--	1.52	0.688	--	
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	8.59	0.200	--	35.2	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	7.34	0.200	--	27.7	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	0.654	0.200	--	2.84	0.869	--	
179601-23-1	p/m-Xylene	2.19	0.400	--	9.51	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	0.418	0.200	--	1.78	0.852	--	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	0.577	0.200	--	2.51	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: L2432670-08	**Date Collected**	: 06/11/24 14:27
Client ID	: IA-07_20240611	**Date Received**	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	**Date Analyzed**	: 06/19/24 00:21
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: JMB
Lab File ID	: R1548857	**Instrument ID**	: AIRLAB15
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: L2432670-08D	**Date Collected**	: 06/11/24 14:27
Client ID	: IA-07_20240611	**Date Received**	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	**Date Analyzed**	: 06/20/24 21:26
Sample Matrix	: AIR	**Dilution Factor**	: 5
Analytical Method	: 48,TO-15	**Analyst**	: TPH
Lab File ID	: R1548910	**Instrument ID**	: AIRLAB15
Sample Amount	: 50.0 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
64-17-5	Ethanol	968	25.0	--	1820	47.1	--	

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2432670
Project Name	: BUD NORTH	Project Number	: 200112
Lab ID	: L2432670-09	Date Collected	: 06/11/24 14:38
Client ID	: IA-08_20240611	Date Received	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	Date Analyzed	: 06/19/24 00:59
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: JMB
Lab File ID	: R1548858	Instrument ID	: AIRLAB15
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.466	0.200	--	2.30	0.989	--	
74-87-3	Chloromethane	0.625	0.200	--	1.29	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	280	5.00	--	528	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	430	1.00	--	1020	2.38	--	
75-69-4	Trichlorofluoromethane	0.211	0.200	--	1.19	1.12	--	
67-63-0	Isopropanol	5.45	0.500	--	13.4	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	4.53	0.500	--	13.4	1.47	--	
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2432670
Project Name	: BUD NORTH	Project Number	: 200112
Lab ID	: L2432670-09	Date Collected	: 06/11/24 14:38
Client ID	: IA-08_20240611	Date Received	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	Date Analyzed	: 06/19/24 00:59
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: JMB
Lab File ID	: R1548858	Instrument ID	: AIRLAB15
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	0.315	0.200	--	1.01	0.639	--	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	5.28	0.200	--	21.6	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	6.64	0.200	--	25.0	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	2.67	0.200	--	11.6	0.869	--	
179601-23-1	p/m-Xylene	8.40	0.400	--	36.5	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	0.756	0.200	--	3.22	0.852	--	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	1.96	0.200	--	8.51	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: L2432670-09	**Date Collected**	: 06/11/24 14:38
Client ID	: IA-08_20240611	**Date Received**	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	**Date Analyzed**	: 06/19/24 00:59
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: JMB
Lab File ID	: R1548858	**Instrument ID**	: AIRLAB15
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2432670
Project Name	: BUD NORTH	Project Number	: 200112
Lab ID	: WG1936045-4	Date Collected	: NA
Client ID	: WG1936045-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 06/18/24 18:43
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: JMB
Lab File ID	: R1548848	Instrument ID	: AIRLAB15
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--	U
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2432670
Project Name	: BUD NORTH	Project Number	: 200112
Lab ID	: WG1936045-4	Date Collected	: NA
Client ID	: WG1936045-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 06/18/24 18:43
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: JMB
Lab File ID	: R1548848	Instrument ID	: AIRLAB15
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: WG1936045-4	**Date Collected**	: NA
Client ID	: WG1936045-4BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/18/24 18:43
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: JMB
Lab File ID	: R1548848	**Instrument ID**	: AIRLAB15
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2432670
Project Name	: BUD NORTH	Project Number	: 200112
Lab ID	: WG1936045-5	Date Collected	: 06/11/24 14:36
Client ID	: IA-05_20240611DUP	Date Received	: 06/11/24
Sample Location	:	Date Analyzed	: 06/18/24 23:05
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: JMB
Lab File ID	: R1548855	Instrument ID	: AIRLAB15
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.446	0.200	--	2.21	0.989	--	
74-87-3	Chloromethane	0.650	0.200	--	1.34	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	287	5.00	--	541	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	622	1.00	--	1480E	2.38	--	E
75-69-4	Trichlorofluoromethane	0.204	0.200	--	1.15	1.12	--	
67-63-0	Isopropanol	3.25	0.500	--	7.99	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	1.85	0.500	--	5.46	1.47	--	
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	0.263	0.200	--	0.840	0.639	--	

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2432670
Project Name	: BUD NORTH	Project Number	: 200112
Lab ID	: WG1936045-5	Date Collected	: 06/11/24 14:36
Client ID	: IA-05_20240611DUP	Date Received	: 06/11/24
Sample Location	:	Date Analyzed	: 06/18/24 23:05
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: JMB
Lab File ID	: R1548855	Instrument ID	: AIRLAB15
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	4.81	0.200	--	19.7	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	6.00	0.200	--	22.6	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	1.91	0.200	--	8.30	0.869	--	
179601-23-1	p/m-Xylene	6.11	0.400	--	26.5	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	0.489	0.200	--	2.08	0.852	--	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	1.42	0.200	--	6.17	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	0.212	0.200	--	1.04	0.983	--	
95-63-6	1,2,4-Trimethylbenzene	0.619	0.200	--	3.04	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: WG1936045-5	**Date Collected**	: 06/11/24 14:36
Client ID	: IA-05_20240611DUP	**Date Received**	: 06/11/24
Sample Location	:	**Date Analyzed**	: 06/18/24 23:05
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: JMB
Lab File ID	: R1548855	**Instrument ID**	: AIRLAB15
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2432670
Project Name	: BUD NORTH	Project Number	: 200112
Lab ID	: WG1937252-4	Date Collected	: NA
Client ID	: WG1937252-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 06/20/24 15:21
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TPH
Lab File ID	: R1548903	Instrument ID	: AIRLAB15
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--	U
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2432670
Project Name	: BUD NORTH	Project Number	: 200112
Lab ID	: WG1937252-4	Date Collected	: NA
Client ID	: WG1937252-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 06/20/24 15:21
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TPH
Lab File ID	: R1548903	Instrument ID	: AIRLAB15
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2432670
Project Name	: BUD NORTH	Project Number	: 200112
Lab ID	: WG1937252-4	Date Collected	: NA
Client ID	: WG1937252-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 06/20/24 15:21
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TPH
Lab File ID	: R1548903	Instrument ID	: AIRLAB15
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548849.D
Acq On : 18 Jun 2024 7:20 PM
Operator : AIRLAB15:JMB
Sample : L2432670-01,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:04:29 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618T\r1548845.D
Sub List : TO15-NY+NAPH-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.142	49	275987	10.000	ppbV	0.02
Standard Area = 309658			Recovery =		89.13%	
43) 1,4-difluorobenzene	11.367	114	739263	10.000	ppbV	0.02
Standard Area = 833704			Recovery =		88.67%	
67) chlorobenzene-D5	16.058	54	129164	10.000	ppbV	0.02
Standard Area = 146665			Recovery =		88.07%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.012	85	13274	0.445	ppbV	99
6) chloromethane	4.180	50	7020	0.618	ppbV	95
7) Freon-114	4.288		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.		
15) ethanol	5.182	31	100954	11.165	ppbV	93
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.697	43	185049M6	10.147	ppbV	
21) trichlorofluoromethane	5.870	101	5058	0.207	ppbV	96
22) isopropyl alcohol	6.000	45	19048	0.851	ppbV	99
27) tertiary butyl alcohol	0.000		0	N.D.	d	
28) methylene chloride	6.720	49	4772	0.233	ppbV	90
29) 3-chloropropene	6.780		0	N.D.		
30) carbon disulfide	7.038		0	N.D.		
31) Freon 113	7.020	101	2169	0.059	ppbV	90
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.		
36) 2-butanone	8.475	43	13289	0.325	ppbV	93
38) Ethyl Acetate	0.000		0	N.D.	d	
39) chloroform	9.292		0	N.D.		
40) Tetrahydrofuran	9.767	42	9274	0.359	ppbV	92
42) 1,2-dichloroethane	10.142		0	N.D.		
44) hexane	9.200	57	4578	0.142	ppbV #	29
50) benzene	10.947	78	5177	0.091	ppbV	93
53) cyclohexane	11.267	56	1209	0.035	ppbV #	82
56) 1,2-dichloropropane	0.000		0	N.D.		

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548849.D
Acq On : 18 Jun 2024 7:20 PM
Operator : AIRLAB15:JMB
Sample : L2432670-01,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:04:29 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618T\r1548845.D
Sub List : TO15-NY+NAPH-7-SIM - .

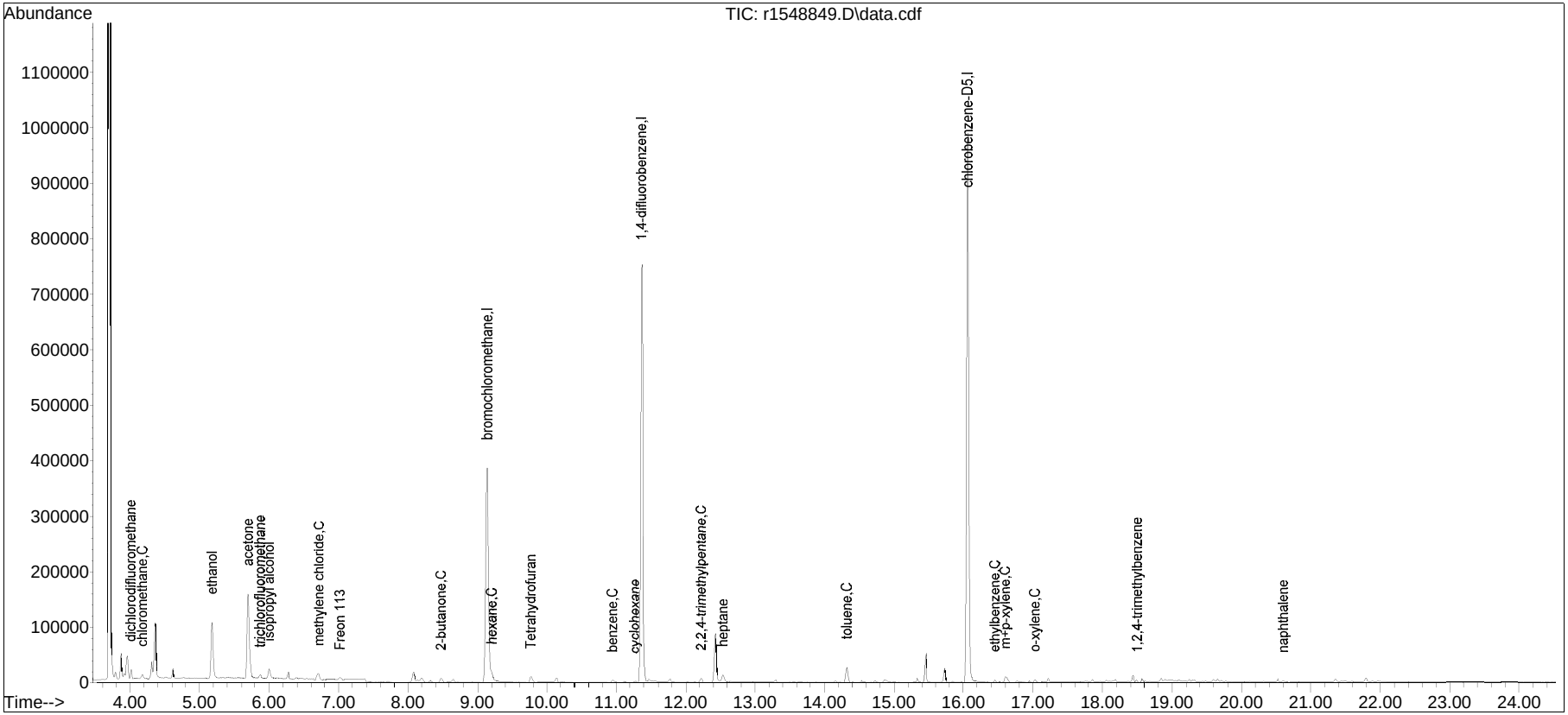
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
57)	bromodichloromethane	0.000		0	N.D.			
58)	1,4-dioxane	0.000		0	N.D.			
60)	2,2,4-trimethylpentane	12.220	57	7905	0.073	ppbV	#	94
62)	heptane	12.533	43	17048	0.474	ppbV	#	62
63)	cis-1,3-dichloropropene	0.000		0	N.D.			
64)	4-methyl-2-pentanone	13.192		0	N.D.			
65)	trans-1,3-dichloropropene	0.000		0	N.D.			
66)	1,1,2-trichloroethane	0.000		0	N.D.			
68)	toluene	14.317	91	22191	0.273	ppbV		96
72)	2-hexanone	14.583		0	N.D.			
74)	dibromochloromethane	0.000		0	N.D.			
75)	1,2-dibromoethane	0.000		0	N.D.			
80)	chlorobenzene	0.000		0	N.D.			
81)	ethylbenzene	16.450	91	4376	0.042	ppbV		93
83)	m+p-xylene	16.600	91	10649	0.131	ppbV		95
84)	bromoform	0.000		0	N.D.			
85)	styrene	16.942		0	N.D.			
86)	1,1,2,2-tetrachloroethane	0.000		0	N.D.			
87)	o-xylene	17.025	91	3877	0.048	ppbV		96
96)	4-ethyl toluene	18.058		0	N.D.			
97)	1,3,5-trimethylbenzene	18.150		0	N.D.			
99)	1,2,4-trimethylbenzene	18.500	105	2671	0.030	ppbV	#	53
101)	Benzyl Chloride	18.492		0	N.D.			
102)	1,3-dichlorobenzene	18.642		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	20.475		0	N.D.			
116)	naphthalene	20.600	128	4929	0.042	ppbV	#	80
119)	hexachlorobutadiene	0.000		0	N.D.			

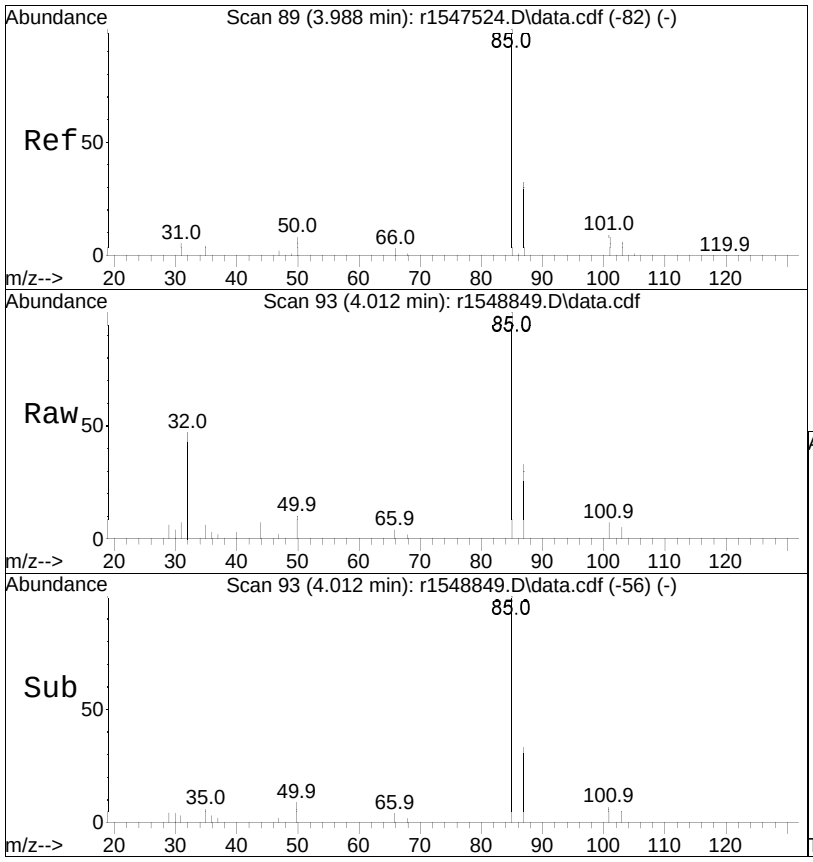
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY+NAPH-7-SIM - .ab15\2024\06\0618T\r1548845.D

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548849.D
Acq On : 18 Jun 2024 7:20 PM
Operator : AIRLAB15:JMB
Sample : L2432670-01,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:04:29 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

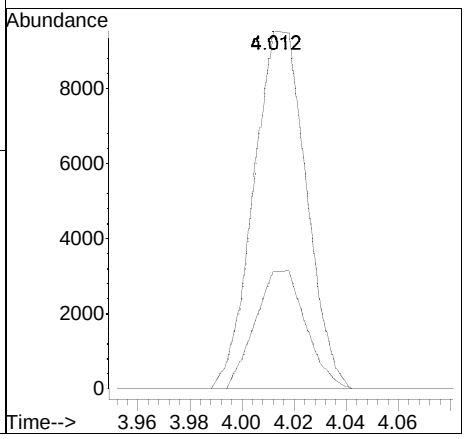


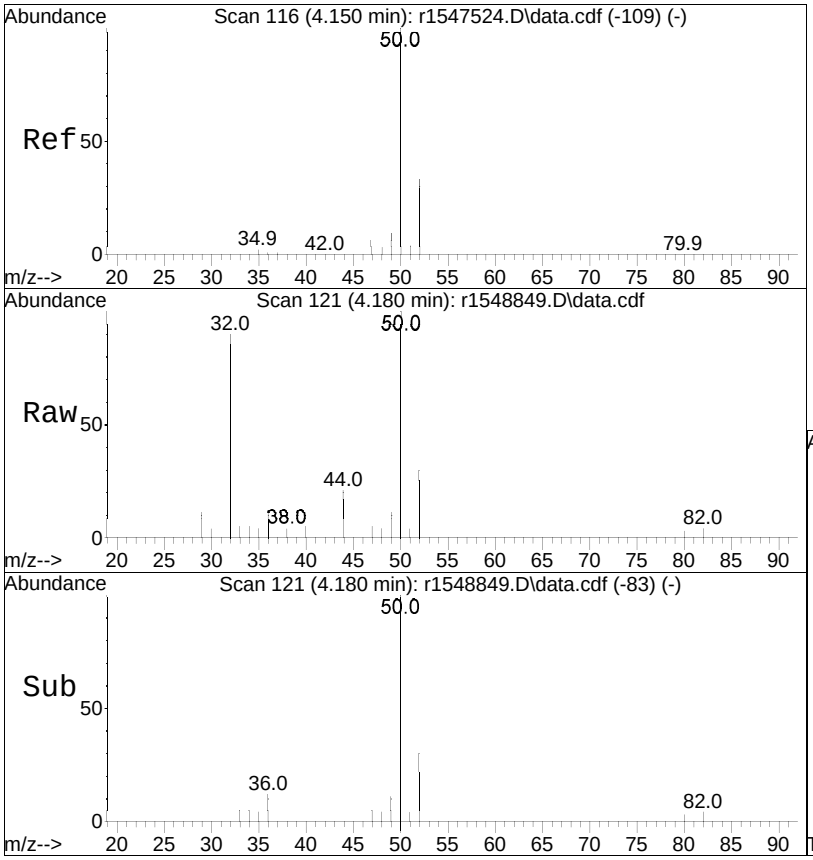


#5
dichlorodifluoromethane
Concen: 0.44 ppbV
RT: 4.012 min Scan# 93
Delta R.T. 0.024 min
Lab File: r1548849.D
Acq: 18 Jun 2024 7:20 PM

Tgt Ion: 85 Resp: 13274

Ion	Ratio	Lower	Upper
85	100		
87	32.9	25.8	38.8

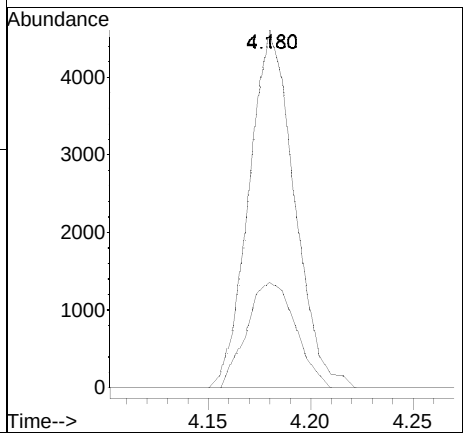


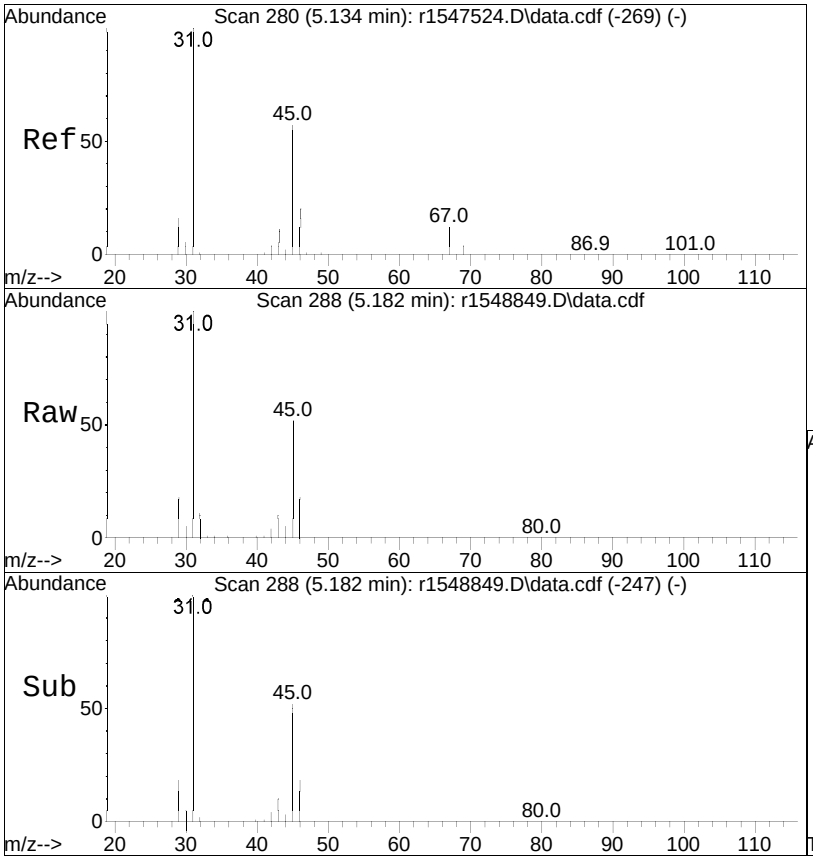


#6
chloromethane
Concen: 0.62 ppbV
RT: 4.180 min Scan# 121
Delta R.T. 0.030 min
Lab File: r1548849.D
Acq: 18 Jun 2024 7:20 PM

Tgt Ion: 50 Resp: 7020

Ion	Ratio	Lower	Upper
50	100		
52	29.6	26.0	39.0

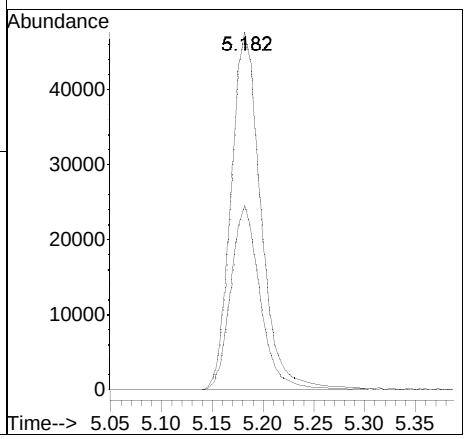


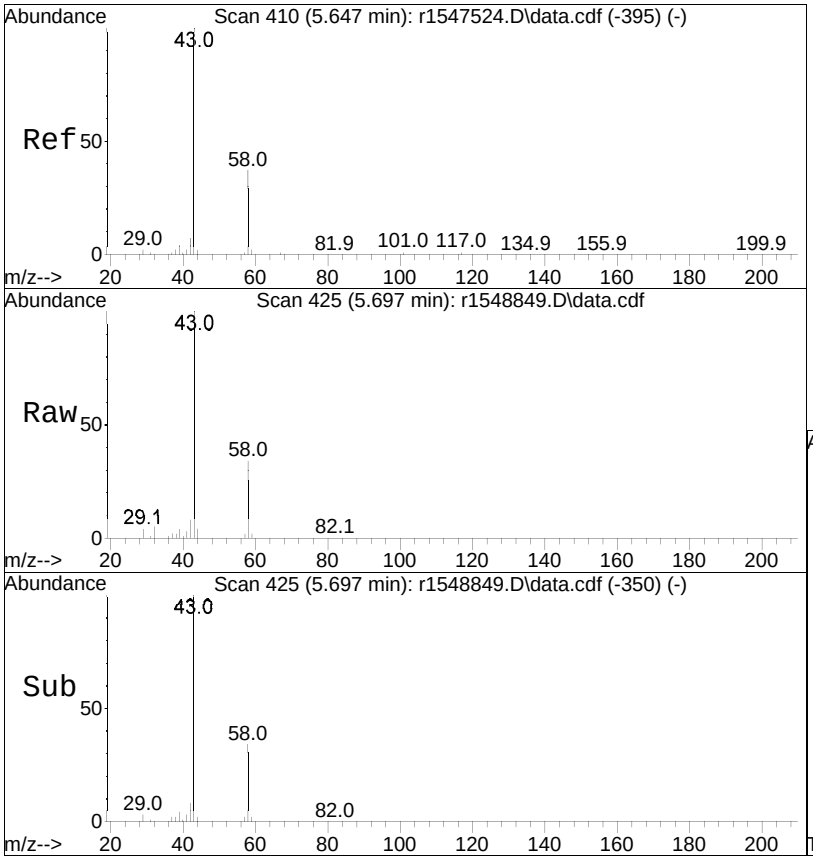


#15
ethanol
Concen: 11.17 ppbV
RT: 5.182 min Scan# 288
Delta R.T. 0.048 min
Lab File: r1548849.D
Acq: 18 Jun 2024 7:20 PM

Tgt Ion: 31 Resp: 100954

Ion	Ratio	Lower	Upper
31	100		
45	51.7	45.7	68.5

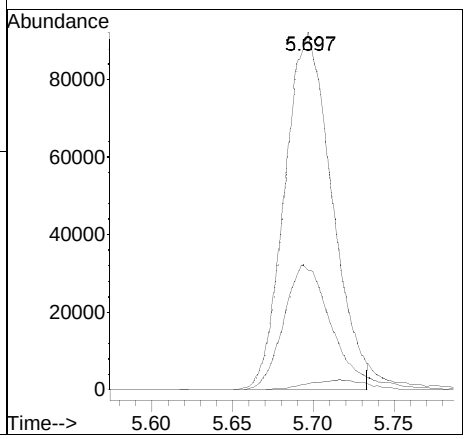


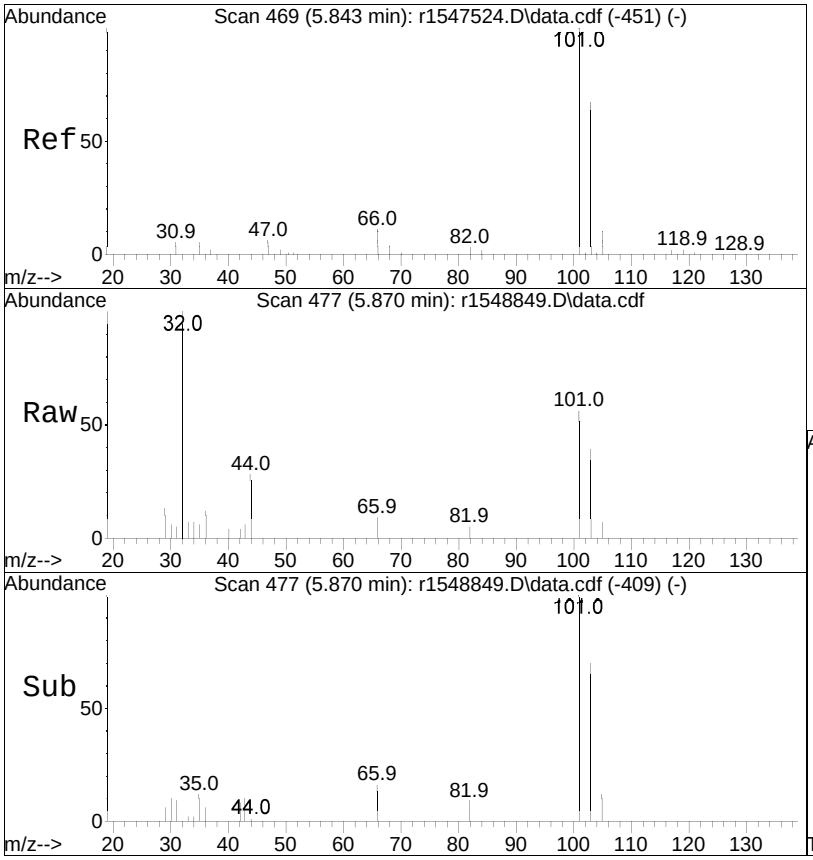


#19
acetone
Concen: 10.15 ppbV m
RT: 5.697 min Scan# 425
Delta R.T. 0.050 min
Lab File: r1548849.D
Acq: 18 Jun 2024 7:20 PM

Tgt Ion: 43 Resp: 185049

Ion	Ratio	Lower	Upper
43	100		
58	33.6	29.4	44.0
57	1.6	0.7	1.1#

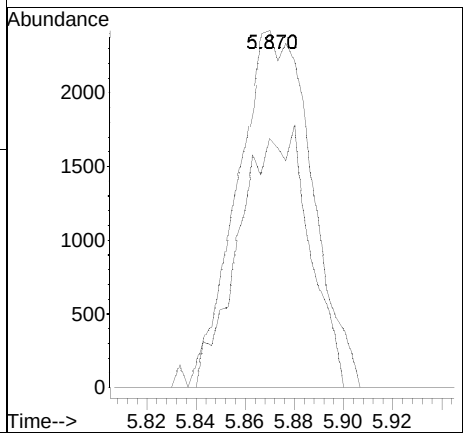


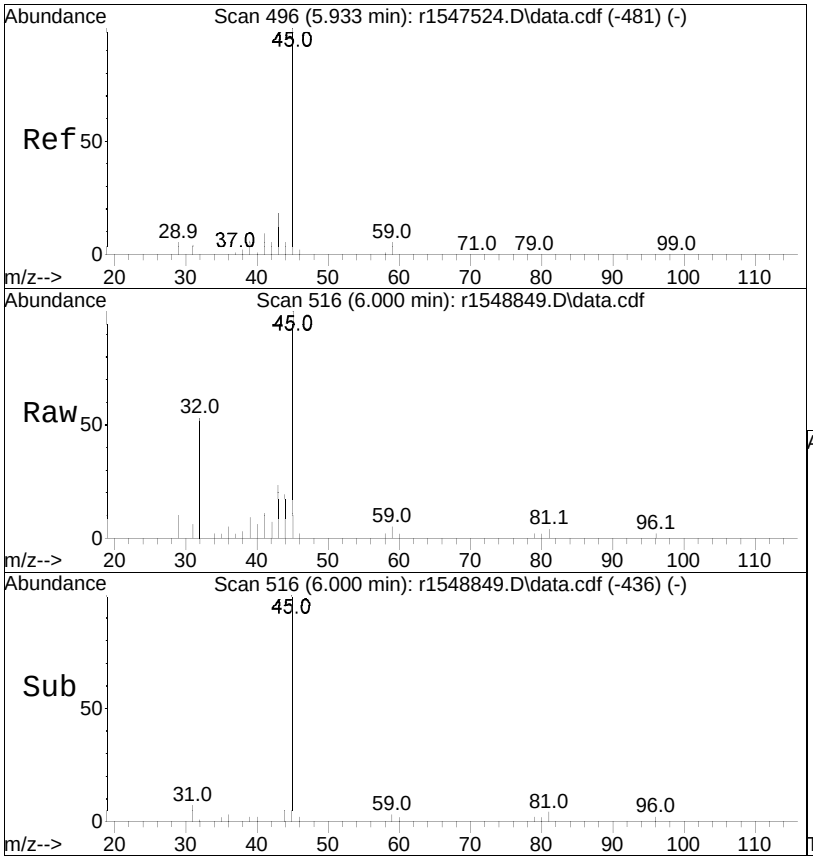


#21
trichlorofluoromethane
Concen: 0.21 ppbV
RT: 5.870 min Scan# 477
Delta R.T. 0.027 min
Lab File: r1548849.D
Acq: 18 Jun 2024 7:20 PM

Tgt Ion:101 Resp: 5058

Ion	Ratio	Lower	Upper
101	100		
103	69.8	53.4	80.0

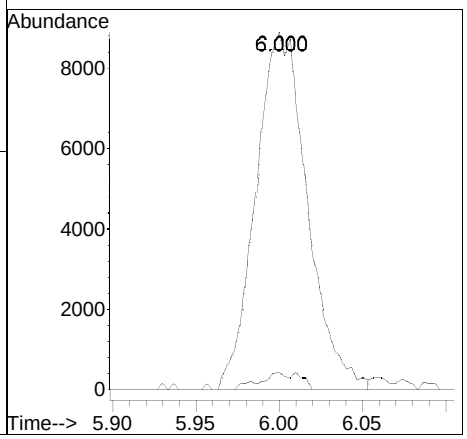


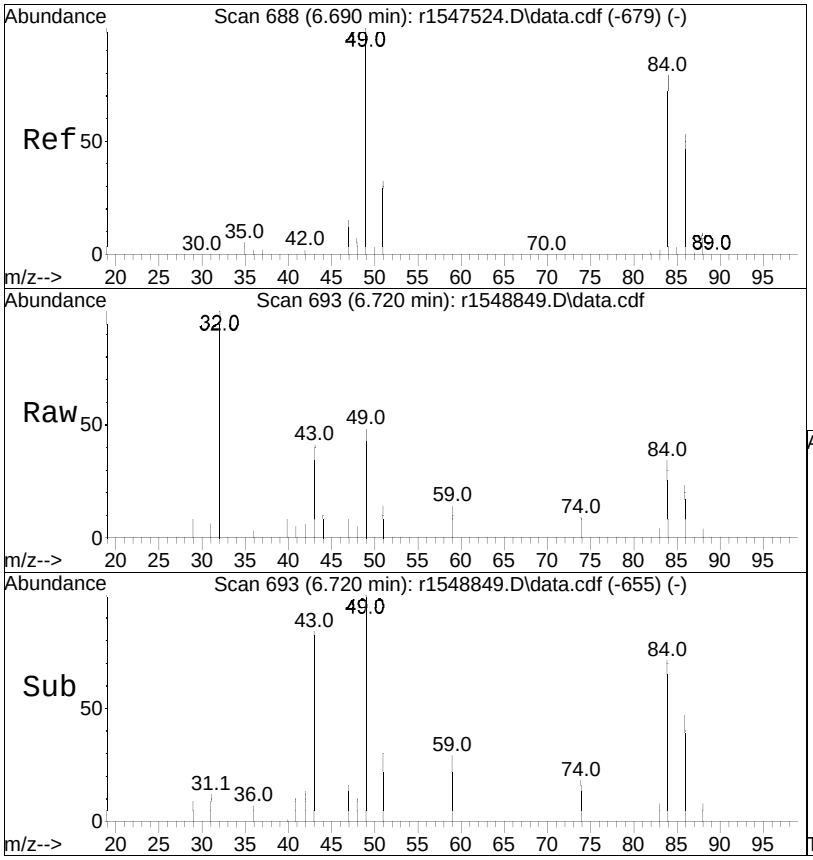


#22
isopropyl alcohol
Concen: 0.85 ppbV
RT: 6.000 min Scan# 516
Delta R.T. 0.067 min
Lab File: r1548849.D
Acq: 18 Jun 2024 7:20 PM

Tgt Ion: 45 Resp: 19048

Ion	Ratio	Lower	Upper
45	100		
59	4.9	3.8	5.6

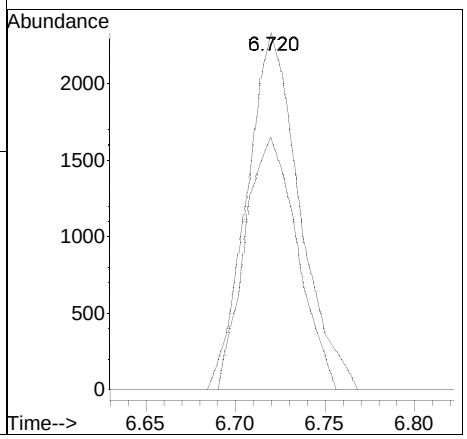


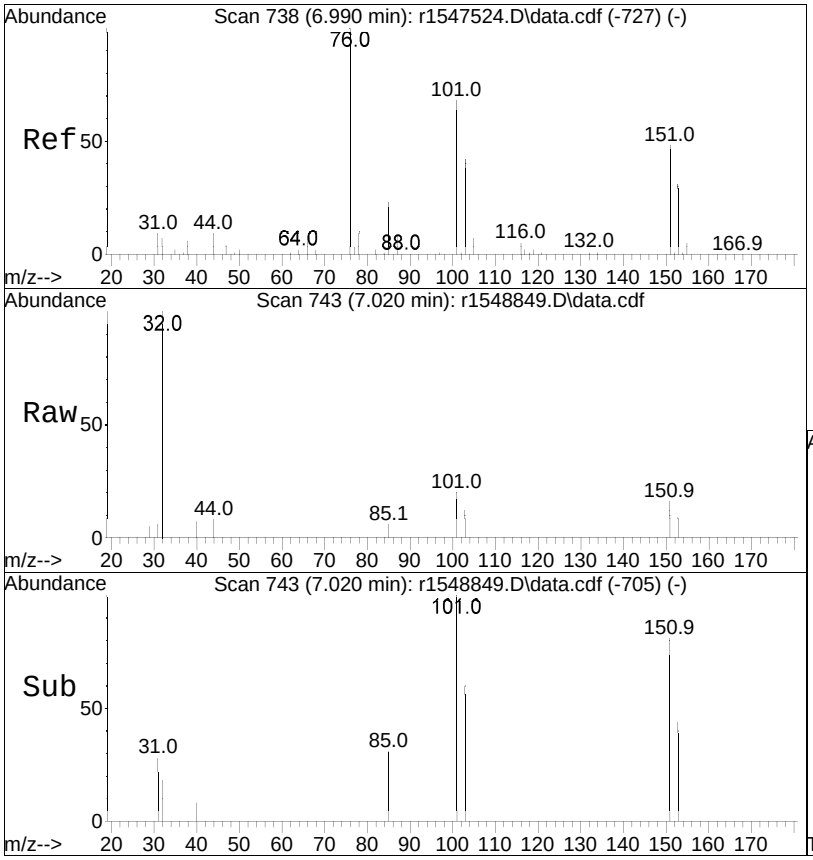


#28
methylene chloride
Concen: 0.23 ppbV
RT: 6.720 min Scan# 693
Delta R.T. 0.030 min
Lab File: r1548849.D
Acq: 18 Jun 2024 7:20 PM

Tgt Ion: 49 Resp: 4772

Ion	Ratio	Lower	Upper
49	100		
84	70.7	63.4	95.2

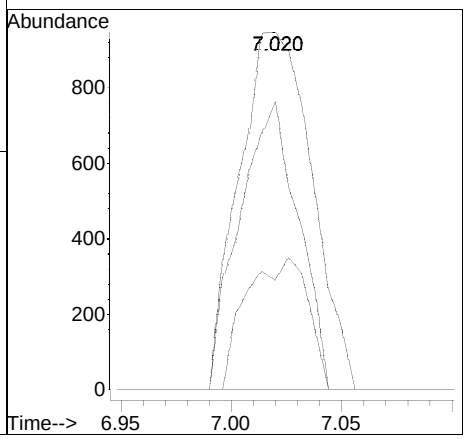


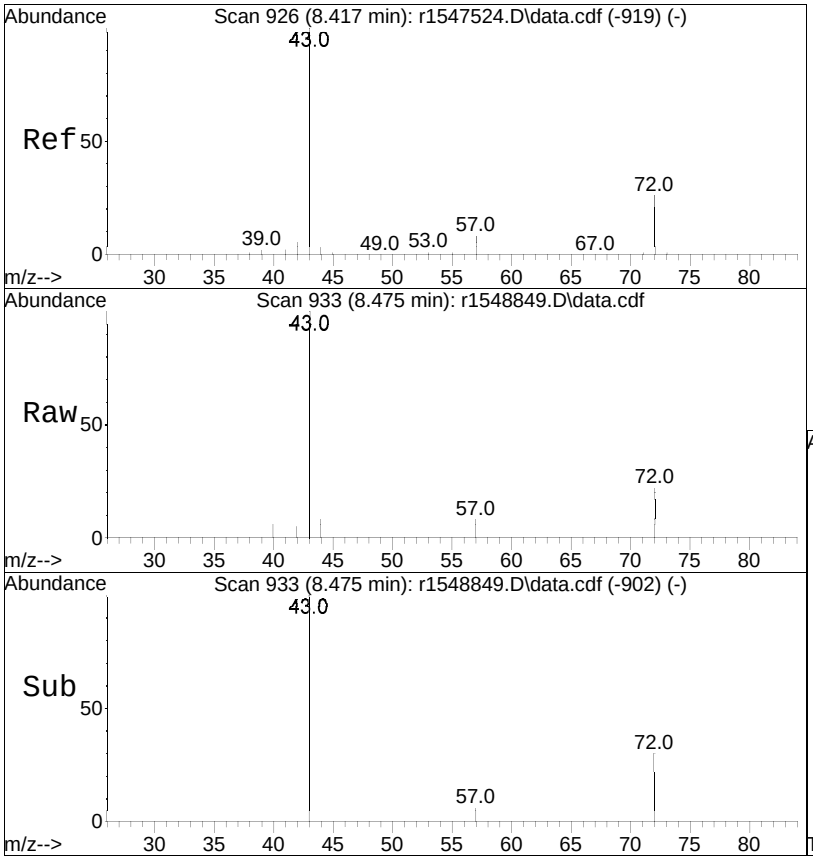


#31
Freon 113
Concen: 0.06 ppbV
RT: 7.020 min Scan# 743
Delta R.T. 0.030 min
Lab File: r1548849.D
Acq: 18 Jun 2024 7:20 PM

Tgt Ion:101 Resp: 2169

Ion	Ratio	Lower	Upper
101	100		
85	30.7	27.6	41.4
151	80.5	56.9	85.3

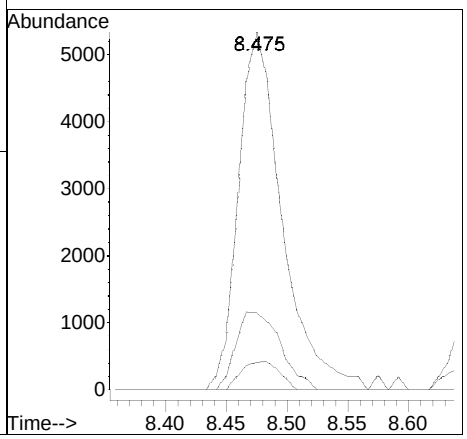


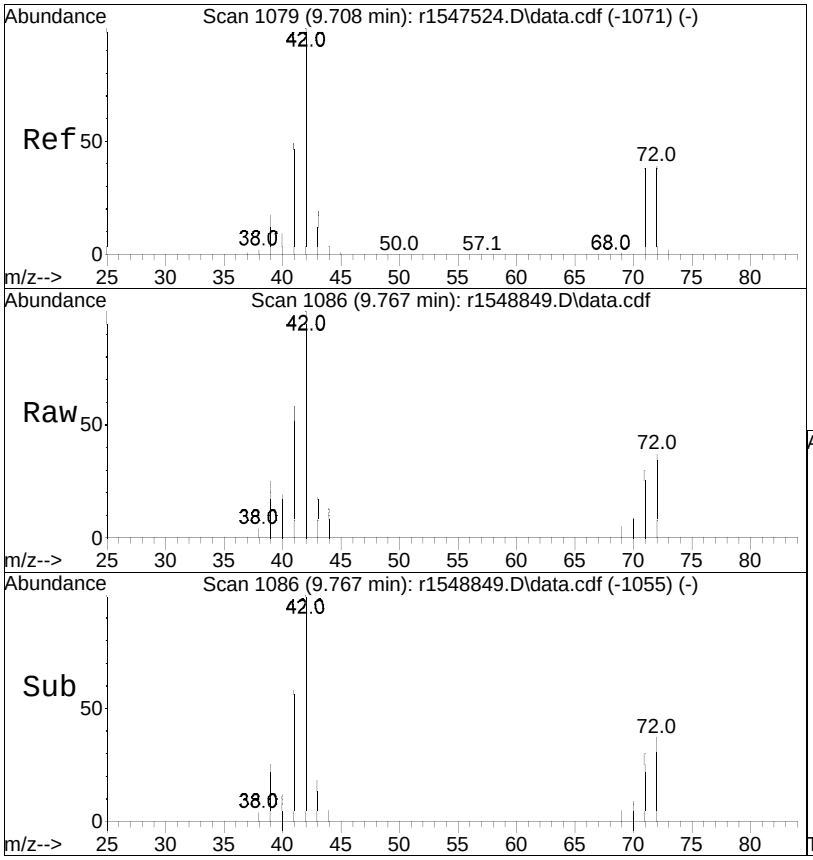


#36
2-butanone
Concen: 0.33 ppbV
RT: 8.475 min Scan# 933
Delta R.T. 0.058 min
Lab File: r1548849.D
Acq: 18 Jun 2024 7:20 PM

Tgt Ion: 43 Resp: 13289

Ion	Ratio	Lower	Upper
43	100		
72	21.7	20.9	31.3
57	7.8	6.6	10.0

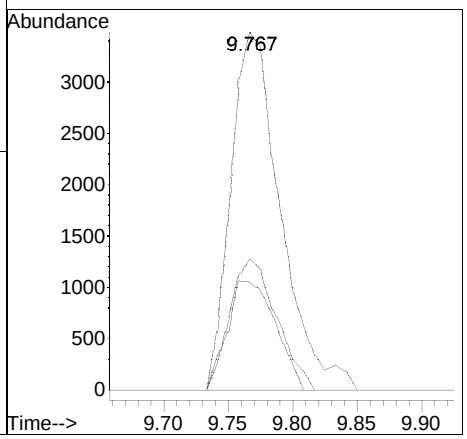


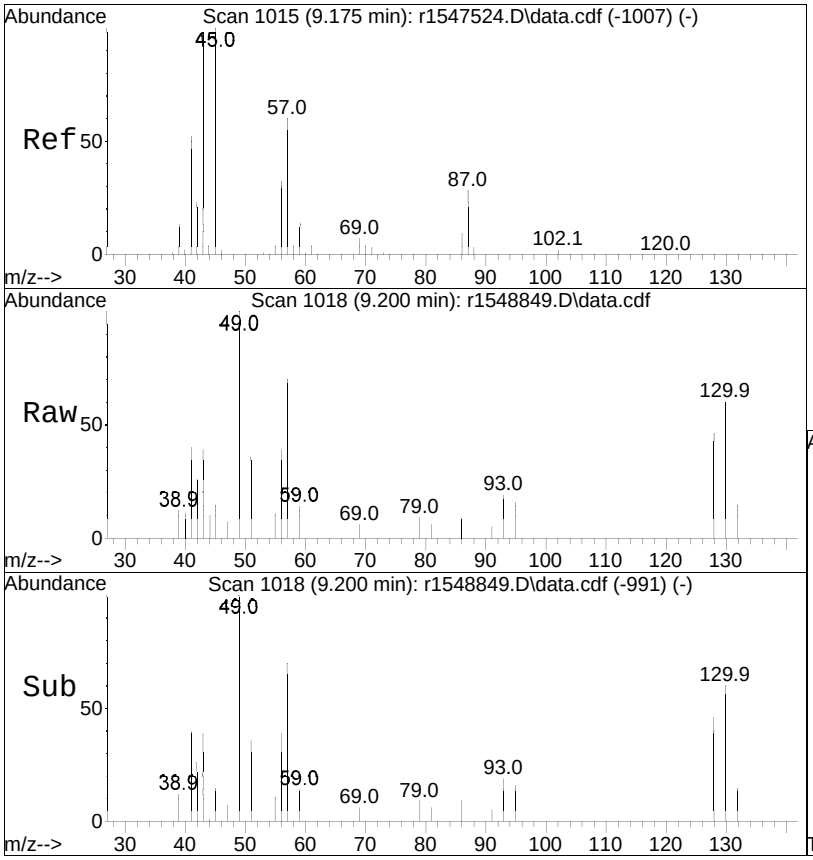


#40
Tetrahydrofuran
Concen: 0.36 ppbV
RT: 9.767 min Scan# 1086
Delta R.T. 0.058 min
Lab File: r1548849.D
Acq: 18 Jun 2024 7:20 PM

Tgt Ion: 42 Resp: 9274

Ion	Ratio	Lower	Upper
42	100		
71	30.4	30.1	45.1
72	36.7	31.4	47.2

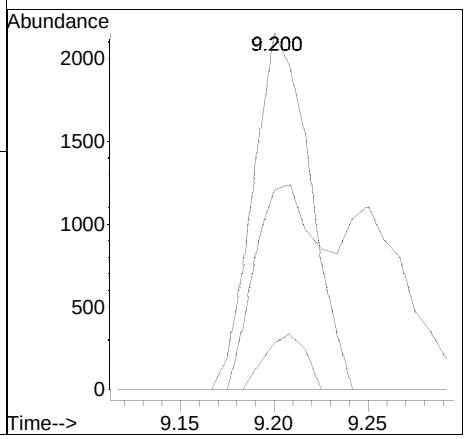


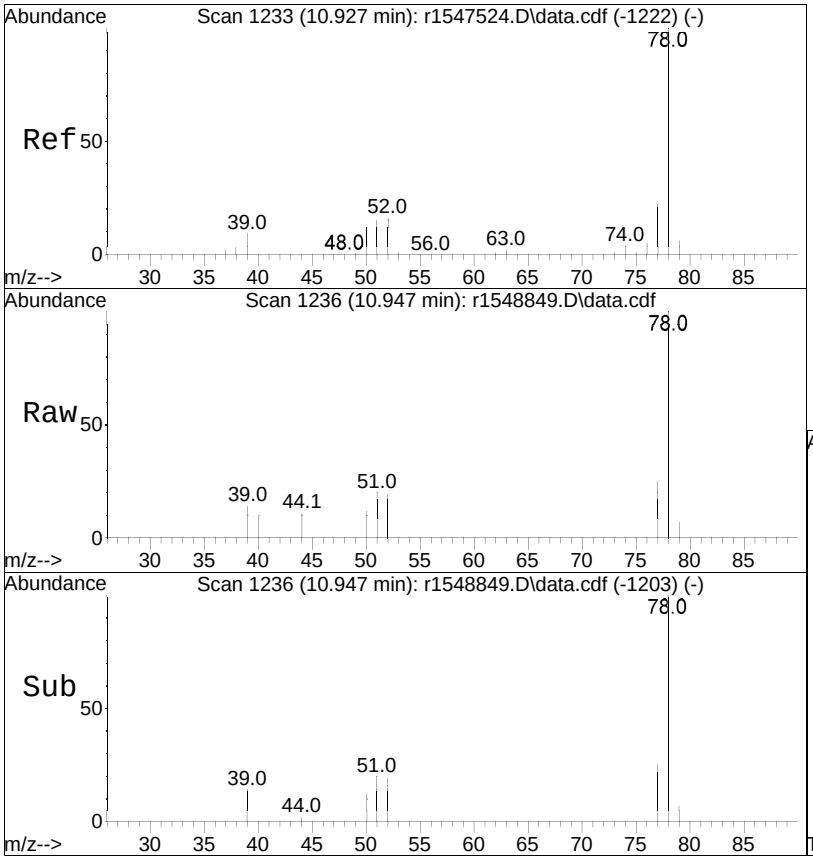


#44
hexane
Concen: 0.14 ppbV
RT: 9.200 min Scan# 1018
Delta R.T. 0.025 min
Lab File: r1548849.D
Acq: 18 Jun 2024 7:20 PM

Tgt Ion: 57 Resp: 4578

Ion	Ratio	Lower	Upper
57	100		
43	55.9	124.6	186.8#
86	12.9	11.5	17.3

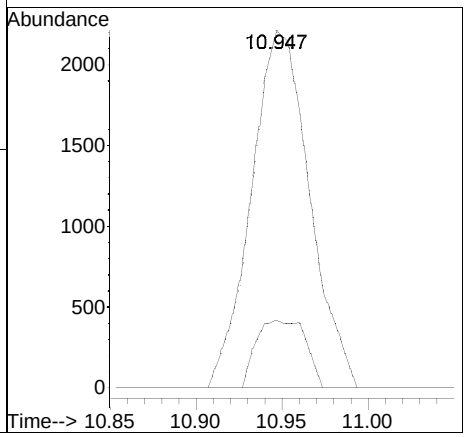


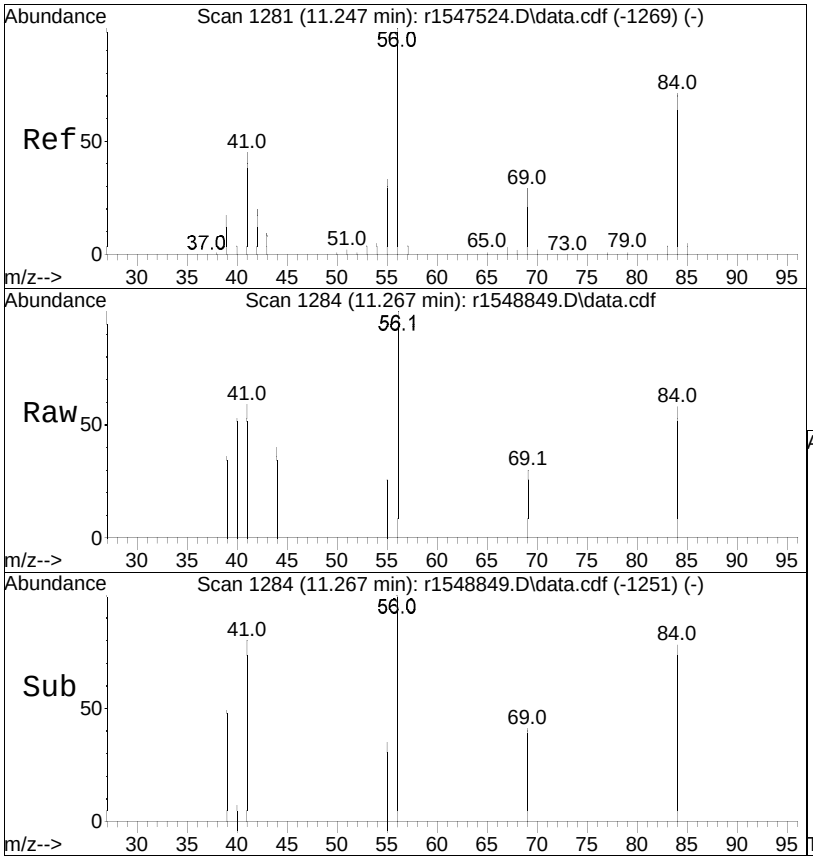


#50
benzene
Concen: 0.09 ppbV
RT: 10.947 min Scan# 1236
Delta R.T. 0.020 min
Lab File: r1548849.D
Acq: 18 Jun 2024 7:20 PM

Tgt Ion: 78 Resp: 5177

Ion	Ratio	Lower	Upper
78	100		
52	19.1	13.0	19.4

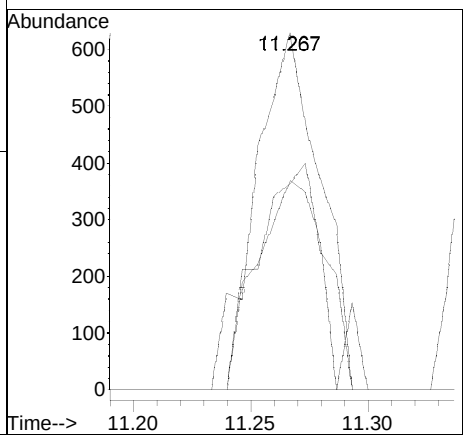


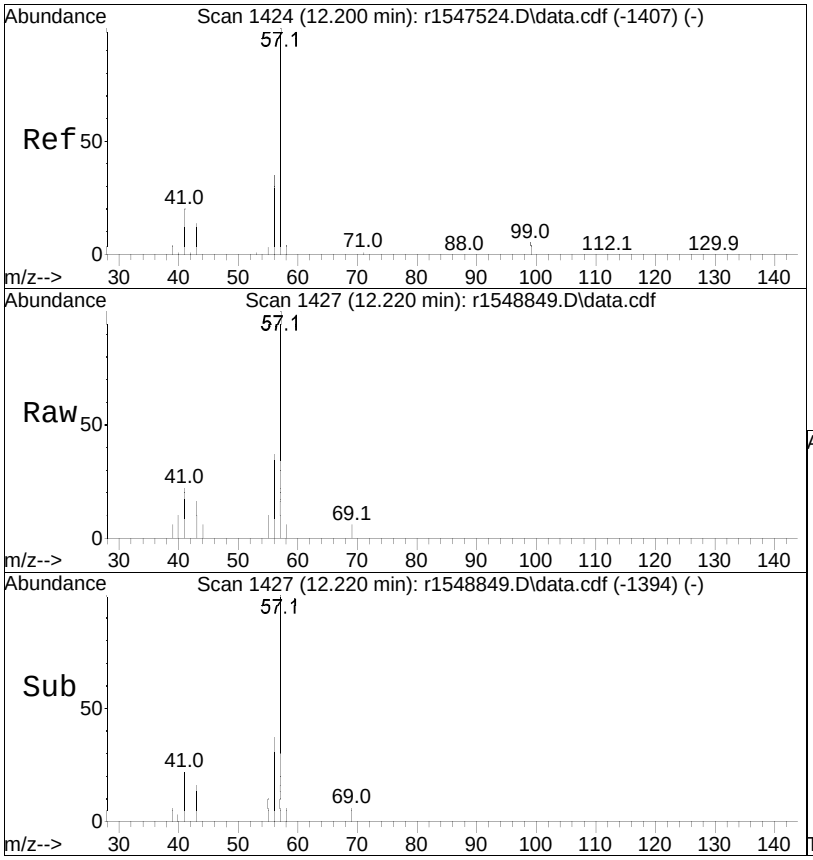


#53
cyclohexane
Concen: 0.03 ppbV
RT: 11.267 min Scan# 1284
Delta R.T. 0.020 min
Lab File: r1548849.D
Acq: 18 Jun 2024 7:20 PM

Tgt Ion: 56 Resp: 1209

Ion	Ratio	Lower	Upper
56	100		
84	57.8	57.2	85.8
41	58.6	35.9	53.9#

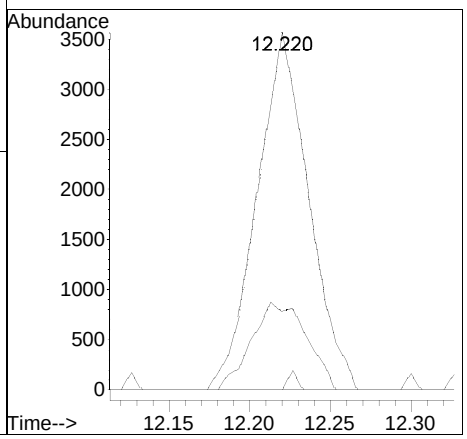


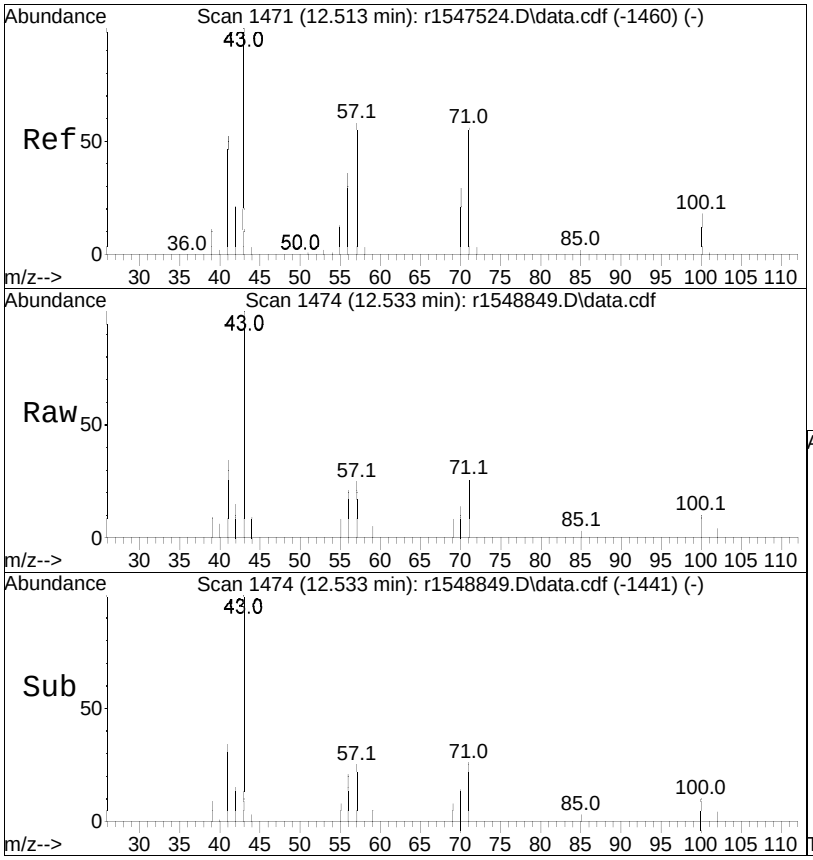


#60
2,2,4-trimethylpentane
Concen: 0.07 ppbV
RT: 12.220 min Scan# 1427
Delta R.T. 0.020 min
Lab File: r1548849.D
Acq: 18 Jun 2024 7:20 PM

Tgt Ion: 57 Resp: 7905

Ion	Ratio	Lower	Upper
57	100		
99	0.0	4.0	6.0#
41	21.9	16.1	24.1

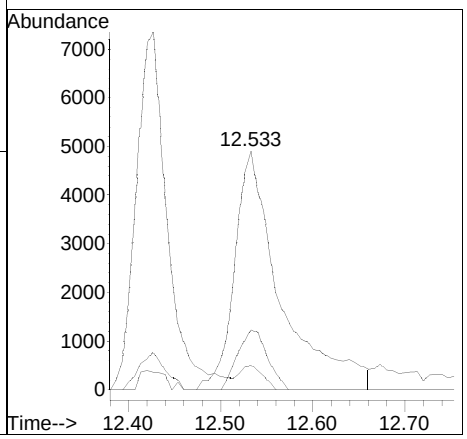


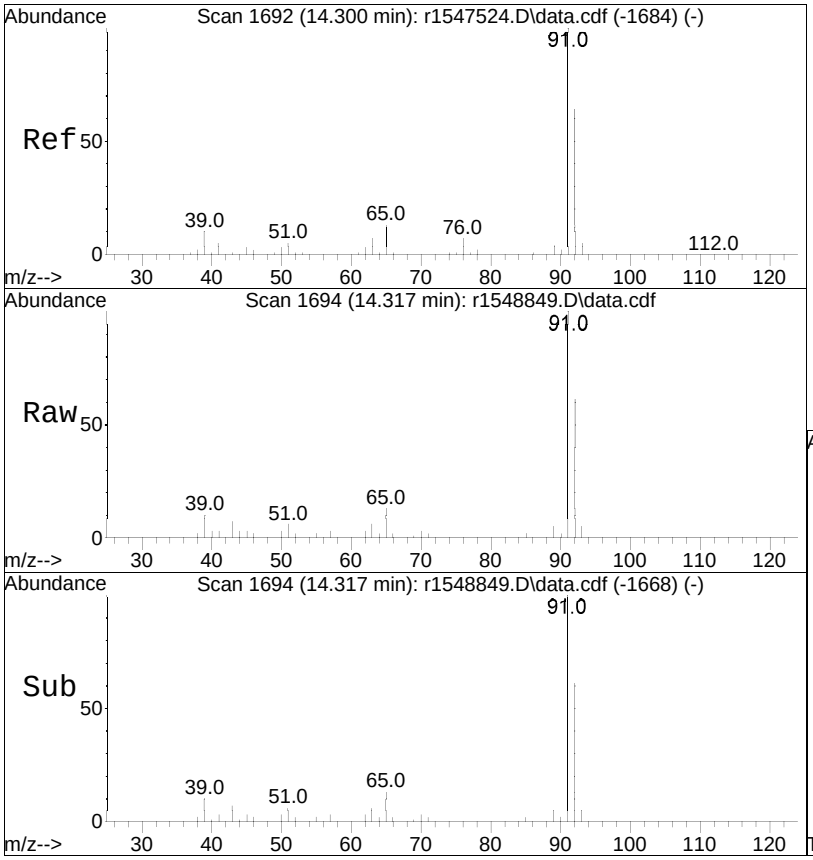


#62
heptane
Concen: 0.47 ppbV
RT: 12.533 min Scan# 1474
Delta R.T. 0.020 min
Lab File: r1548849.D
Acq: 18 Jun 2024 7:20 PM

Tgt Ion: 43 Resp: 17048

Ion	Ratio	Lower	Upper
43	100		
57	25.3	46.6	70.0#
100	10.3	14.6	22.0#

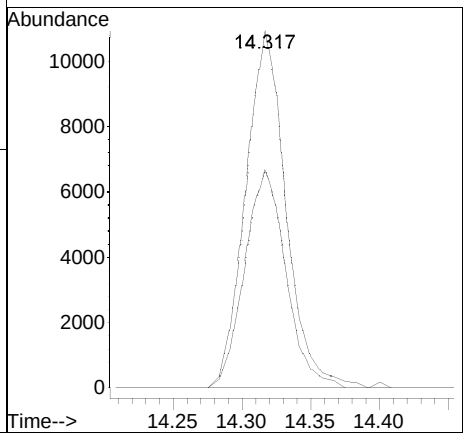


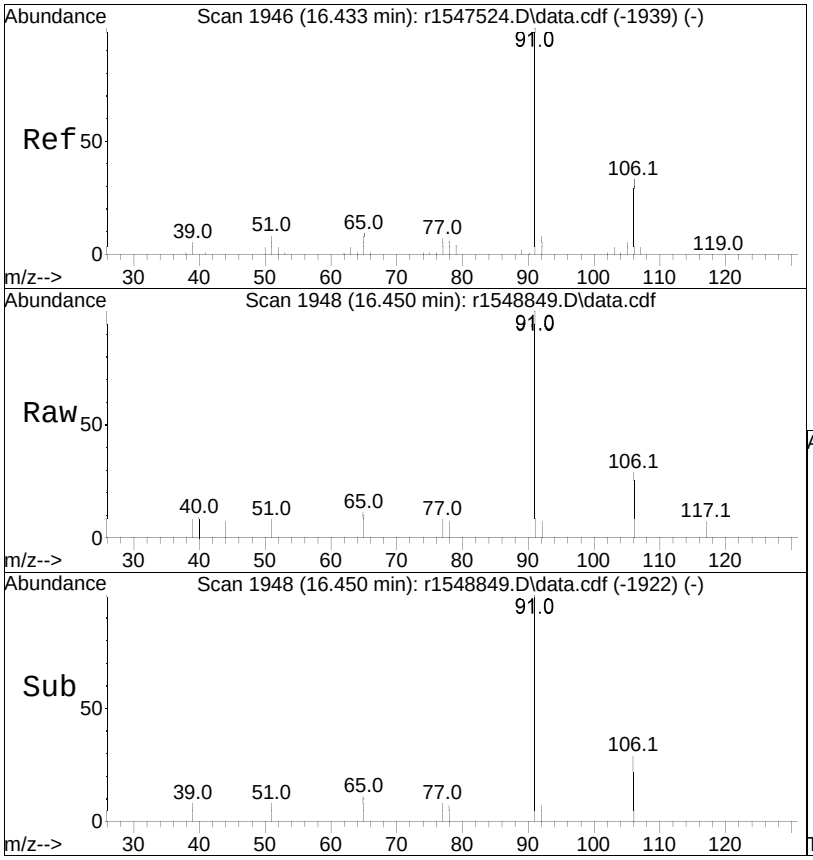


#68
toluene
Concen: 0.27 ppbV
RT: 14.317 min Scan# 1694
Delta R.T. 0.017 min
Lab File: r1548849.D
Acq: 18 Jun 2024 7:20 PM

Tgt Ion: 91 Resp: 22191

Ion	Ratio	Lower	Upper
91	100		
92	61.2	51.6	77.4

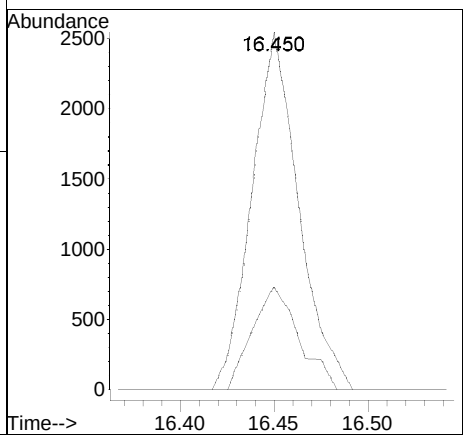


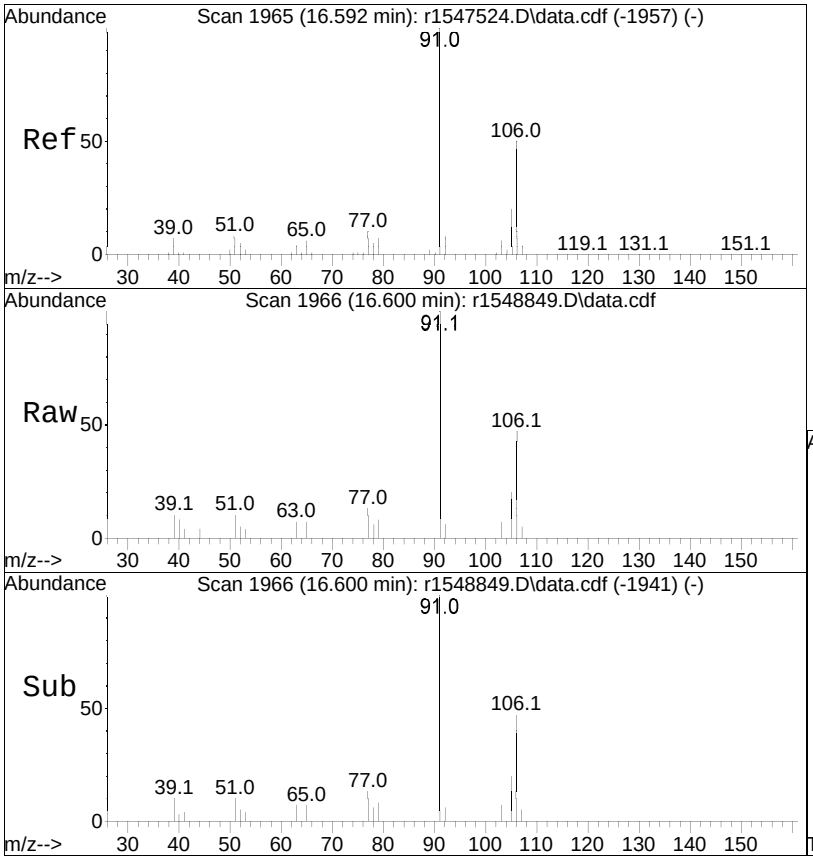


#81
ethylbenzene
Concen: 0.04 ppbV
RT: 16.450 min Scan# 1948
Delta R.T. 0.017 min
Lab File: r1548849.D
Acq: 18 Jun 2024 7:20 PM

Tgt Ion: 91 Resp: 4376

Ion	Ratio	Lower	Upper
91	100		
106	28.9	26.1	39.1

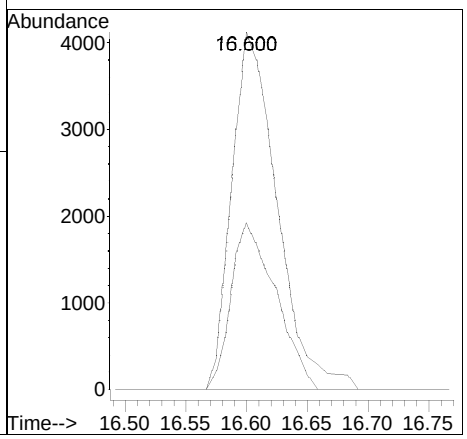


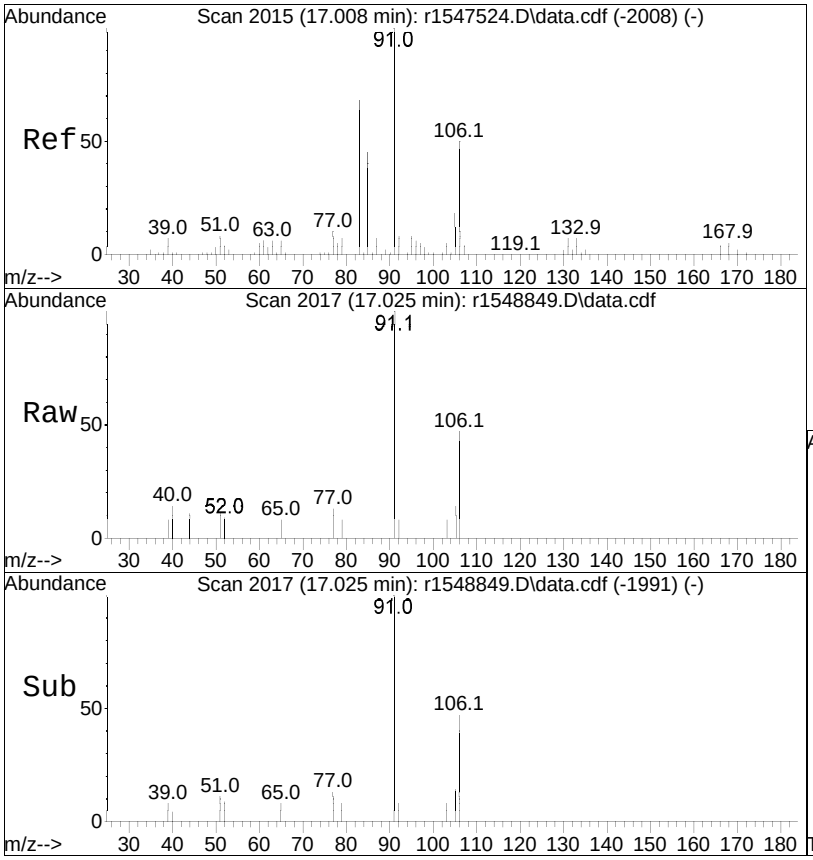


#83
m+p-xylene
Concen: 0.13 ppbV
RT: 16.600 min Scan# 1966
Delta R.T. 0.008 min
Lab File: r1548849.D
Acq: 18 Jun 2024 7:20 PM

Tgt Ion: 91 Resp: 10649

Ion	Ratio	Lower	Upper
91	100		
106	46.8	40.1	60.1

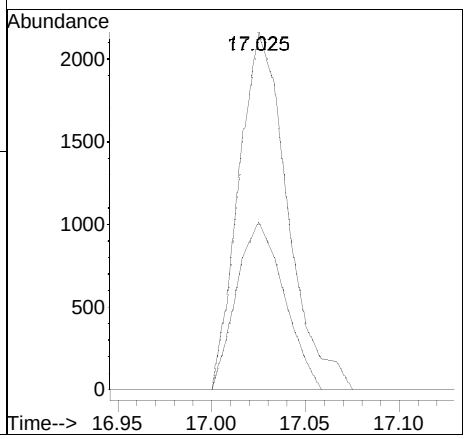


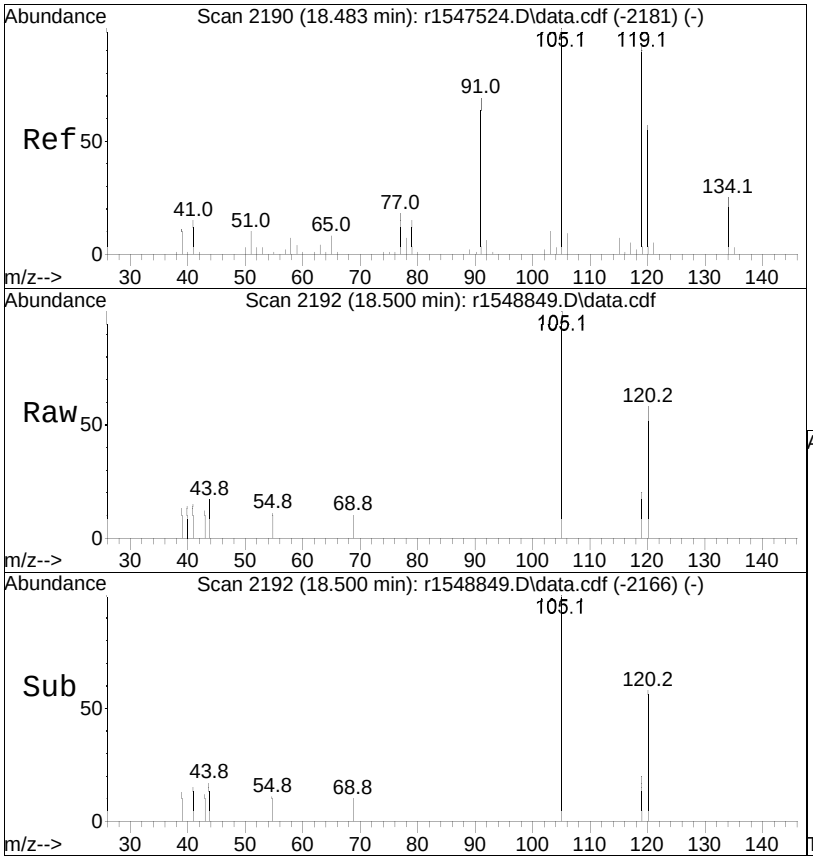


#87
o-xylene
Concen: 0.05 ppbV
RT: 17.025 min Scan# 2017
Delta R.T. 0.017 min
Lab File: r1548849.D
Acq: 18 Jun 2024 7:20 PM

Tgt Ion: 91 Resp: 3877

Ion	Ratio	Lower	Upper
91	100		
106	47.0	39.6	59.4

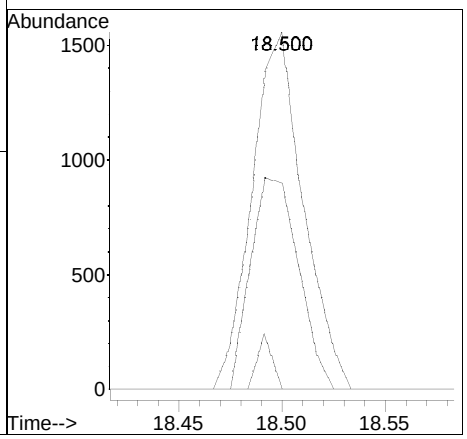


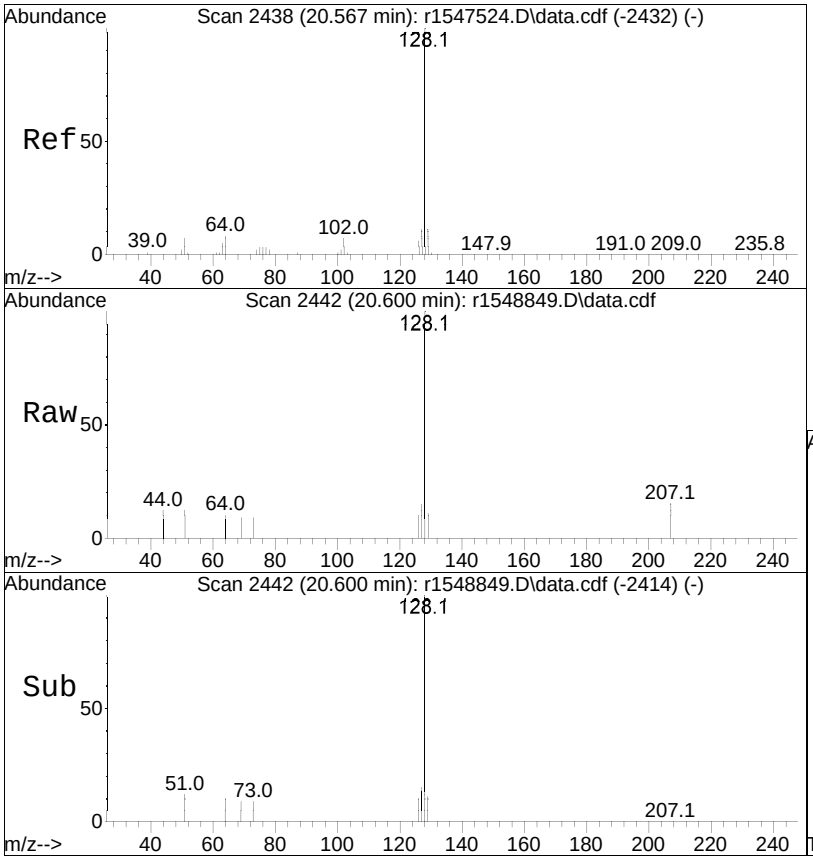


#99
1,2,4-trimethylbenzene
Concen: 0.03 ppbV
RT: 18.500 min Scan# 2192
Delta R.T. 0.017 min
Lab File: r1548849.D
Acq: 18 Jun 2024 7:20 PM

Tgt Ion:105 Resp: 2671

Ion	Ratio	Lower	Upper
105	100		
120	57.7	45.4	68.2
91	0.0	55.0	82.6#

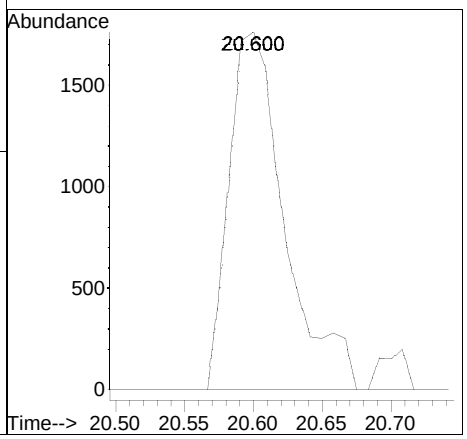




#116
naphthalene
Concen: 0.04 ppbV
RT: 20.600 min Scan# 2442
Delta R.T. 0.033 min
Lab File: r1548849.D
Acq: 18 Jun 2024 7:20 PM

Tgt Ion:128 Resp: 4929

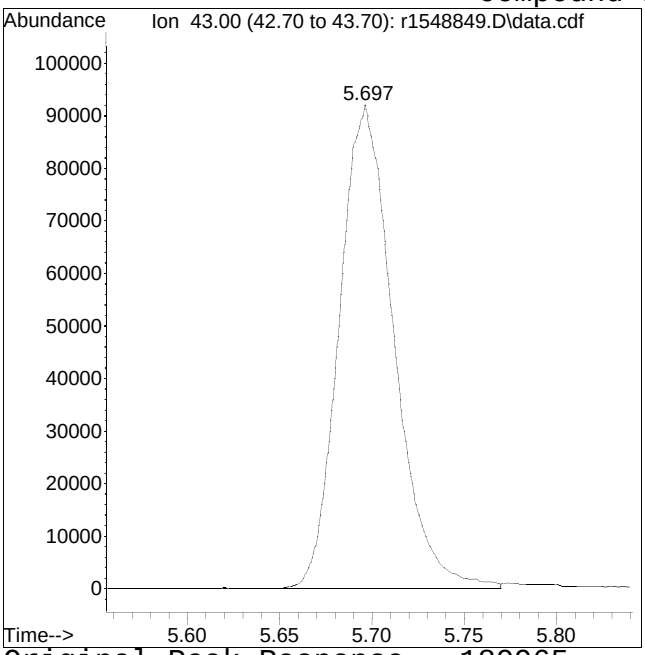
Ion	Ratio	Lower	Upper
128	100		
102	0.0	5.4	8.0#



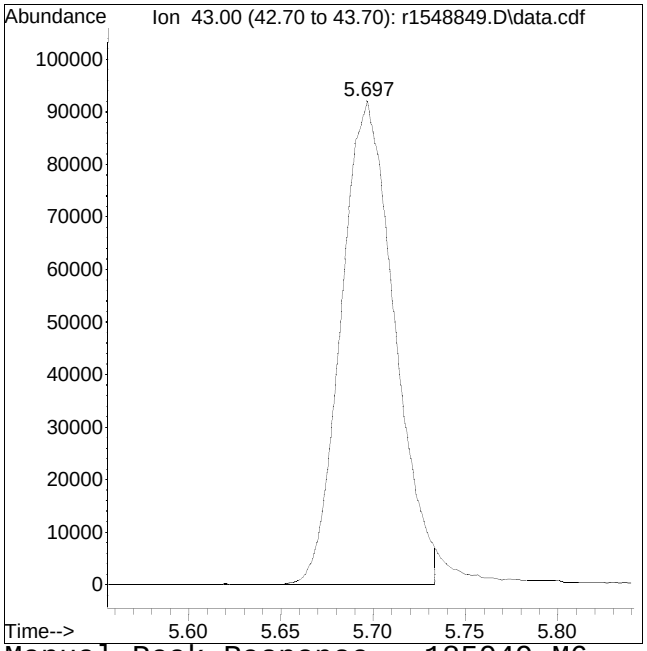
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1548849.D Operator : AIRLAB15:JMB
Date Inj'd : 6/18/2020 0:7: 0 Instrument :
Sample : L2432670-01,3,250,250 Quant Date : 6/19/2024 7:04 am

Compound #19: acetone



Original Peak Response = 189965



Manual Peak Response = 185049 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548851.D
Acq On : 18 Jun 2024 8:35 PM
Operator : AIRLAB15:JMB
Sample : L2432670-03,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:05:51 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618T\r1548845.D
Sub List : TO15-NY+NAPH-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.142	49	286726	10.000	ppbV	0.02
Standard Area = 309658			Recovery =	92.59%		
43) 1,4-difluorobenzene	11.373	114	773758	10.000	ppbV	0.03
Standard Area = 833704			Recovery =	92.81%		
67) chlorobenzene-D5	16.058	54	141021	10.000	ppbV	0.02
Standard Area = 146665			Recovery =	96.15%		
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.018	85	13779	0.444	ppbV	95
6) chloromethane	4.186	50	7007	0.594	ppbV	96
7) Freon-114	4.288		0	N.D.		
10) 1,3-butadiene	4.558		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.176	31	5507873	586.336	ppbV	94
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.683	43	4006657	211.474	ppbV	99
21) trichlorofluoromethane	5.877	101	4839	0.191	ppbV	98
22) isopropyl alcohol	5.987	45	81087	3.488	ppbV	100
27) tertiary butyl alcohol	6.660	59	240294	6.445	ppbV #	90
28) methylene chloride	6.726	49	4558	0.214	ppbV	99
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	7.032	76	6493	0.120	ppbV #	46
31) Freon 113	7.026	101	2345	0.061	ppbV	94
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	8.067		0	N.D.		
36) 2-butanone	8.450	43	738404	17.403	ppbV	96
38) Ethyl Acetate	9.233	61	1991	0.244	ppbV #	37
39) chloroform	9.300	83	1136	0.034	ppbV #	86
40) Tetrahydrofuran	9.750	42	12707	0.473	ppbV	91
42) 1,2-dichloroethane	10.142		0	N.D.		
44) hexane	9.208	57	2983	0.088	ppbV #	72
50) benzene	10.953	78	15583	0.261	ppbV	98
53) cyclohexane	11.267	56	5973	0.165	ppbV	97
56) 1,2-dichloropropane	0.000		0	N.D.		

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548851.D
Acq On : 18 Jun 2024 8:35 PM
Operator : AIRLAB15:JMB
Sample : L2432670-03,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:05:51 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618T\r1548845.D
Sub List : TO15-NY+NAPH-7-SIM - .

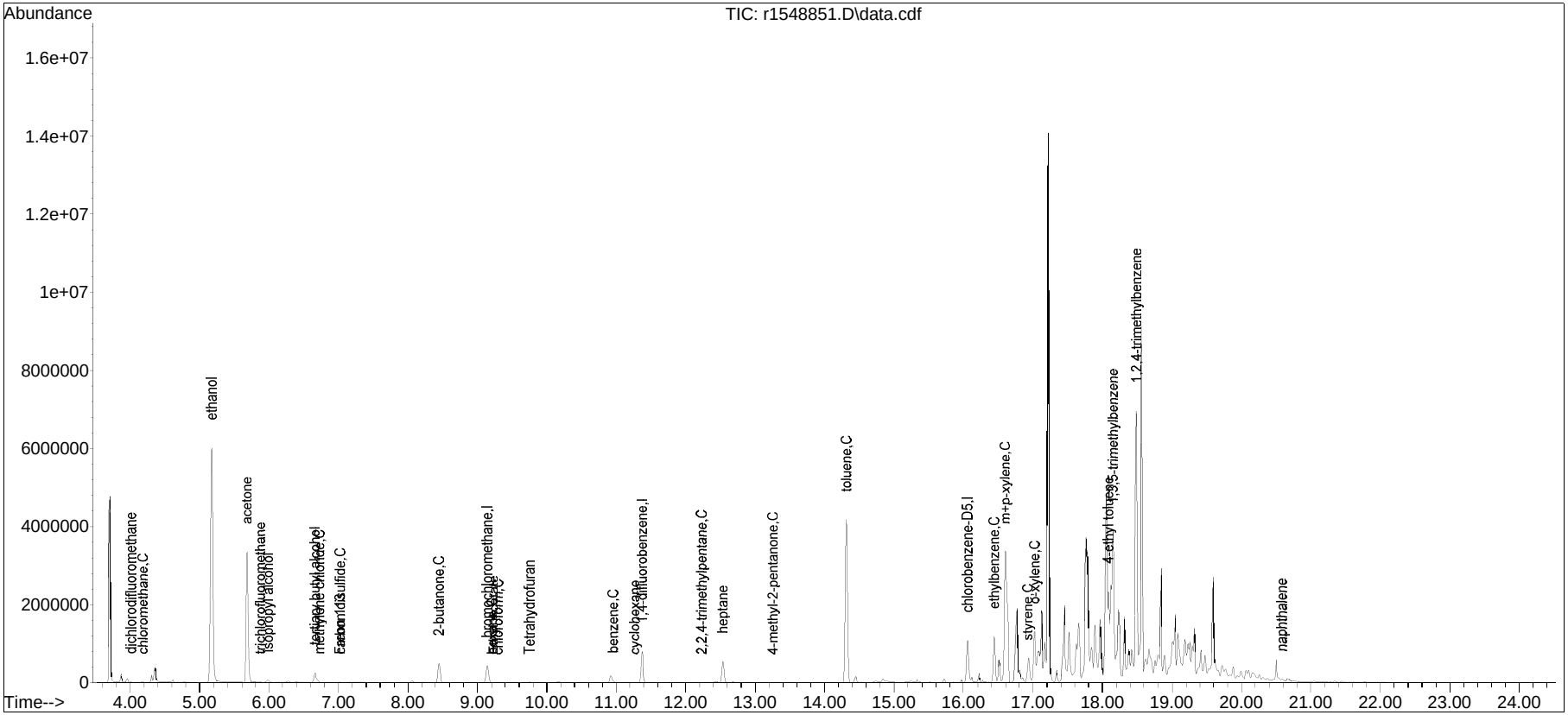
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	12.200		0	N.D.		
60) 2,2,4-trimethylpentane	12.227	57	8302	0.073	ppbV #	90
62) heptane	12.533	43	284894	7.562	ppbV	97
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	13.250	43	2773	0.065	ppbV #	89
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	14.317	91	3583206	40.362	ppbV	99
72) 2-hexanone	0.000		0	N.D.	d	
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
80) chlorobenzene	0.000		0	N.D.	d	
81) ethylbenzene	16.442	91	905737	7.960	ppbV	96
83) m+p-xylene	16.600	91	2899708	32.553	ppbV	95
84) bromoform	0.000		0	N.D.		
85) styrene	16.925	104	67803	0.967	ppbV	98
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.	d	
87) o-xylene	17.025	91	808192	9.078	ppbV	91
96) 4-ethyl toluene	18.083	105	703841M4	5.991	ppbV	
97) 1,3,5-trimethylbenzene	18.150	105	1263651	11.134	ppbV	98
99) 1,2,4-trimethylbenzene	18.492	105	2849536	29.465	ppbV #	59
101) Benzyl Chloride	0.000		0	N.D.	d	
102) 1,3-dichlorobenzene	18.633		0	N.D.		
103) 1,4-dichlorobenzene	18.683		0	N.D.		
107) 1,2-dichlorobenzene	18.967		0	N.D.		
115) 1,2,4-trichlorobenzene	20.467		0	N.D.		
116) naphthalene	20.583	128	23202	0.182	ppbV	96
119) hexachlorobutadiene	20.892		0	N.D.		

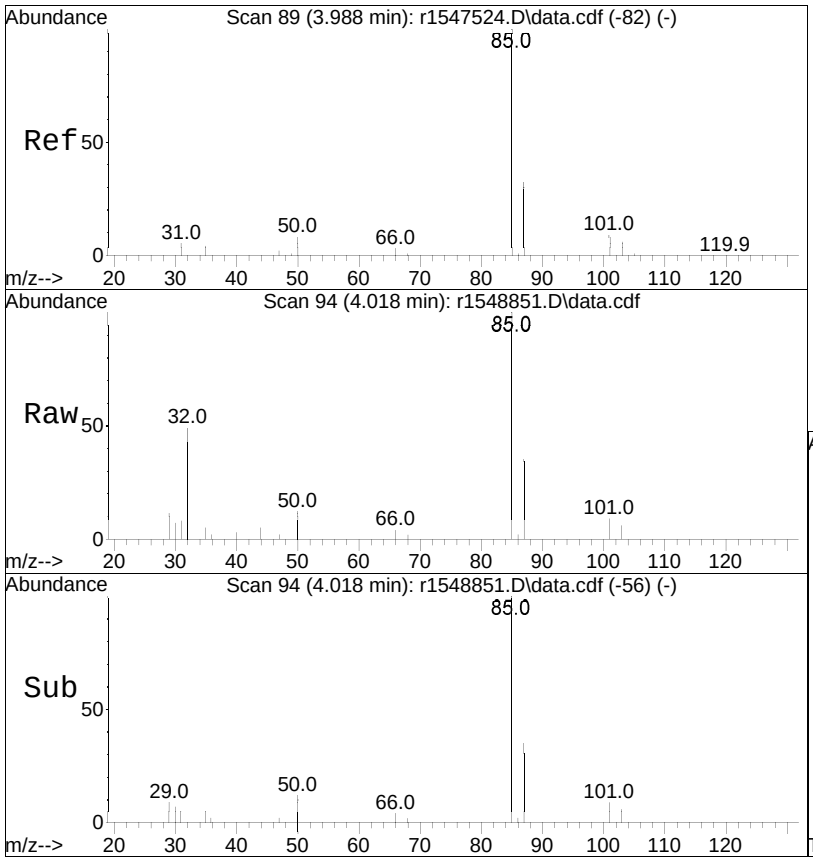
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY+NAPH-7-SIM - .ab15\2024\06\0618T\r1548845.D

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548851.D
Acq On : 18 Jun 2024 8:35 PM
Operator : AIRLAB15:JMB
Sample : L2432670-03,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:05:51 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

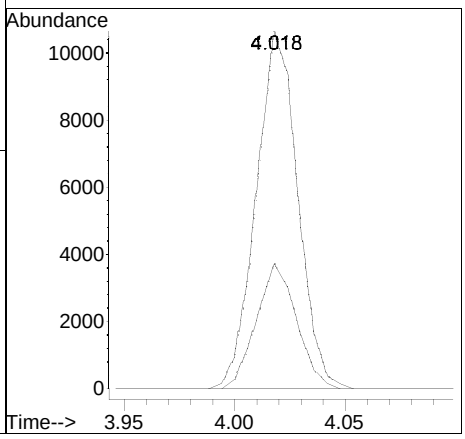


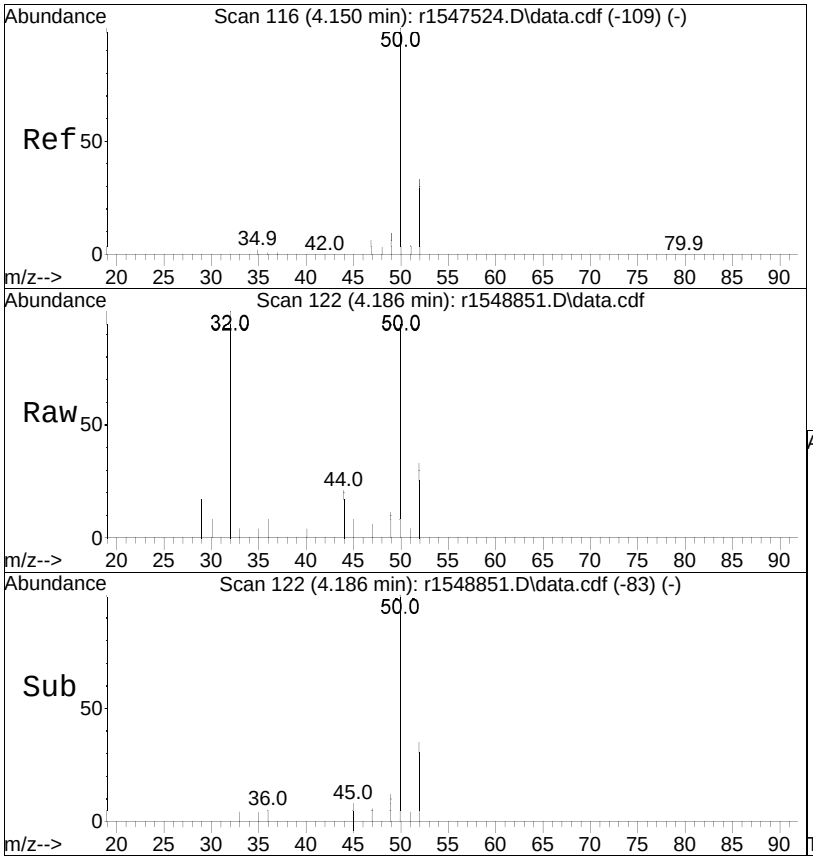


#5
dichlorodifluoromethane
Concen: 0.44 ppbV
RT: 4.018 min Scan# 94
Delta R.T. 0.030 min
Lab File: r1548851.D
Acq: 18 Jun 2024 8:35 PM

Tgt Ion: 85 Resp: 13779

Ion	Ratio	Lower	Upper
85	100		
87	35.1	25.8	38.8

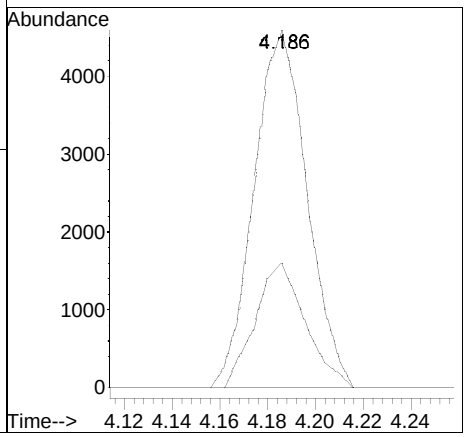


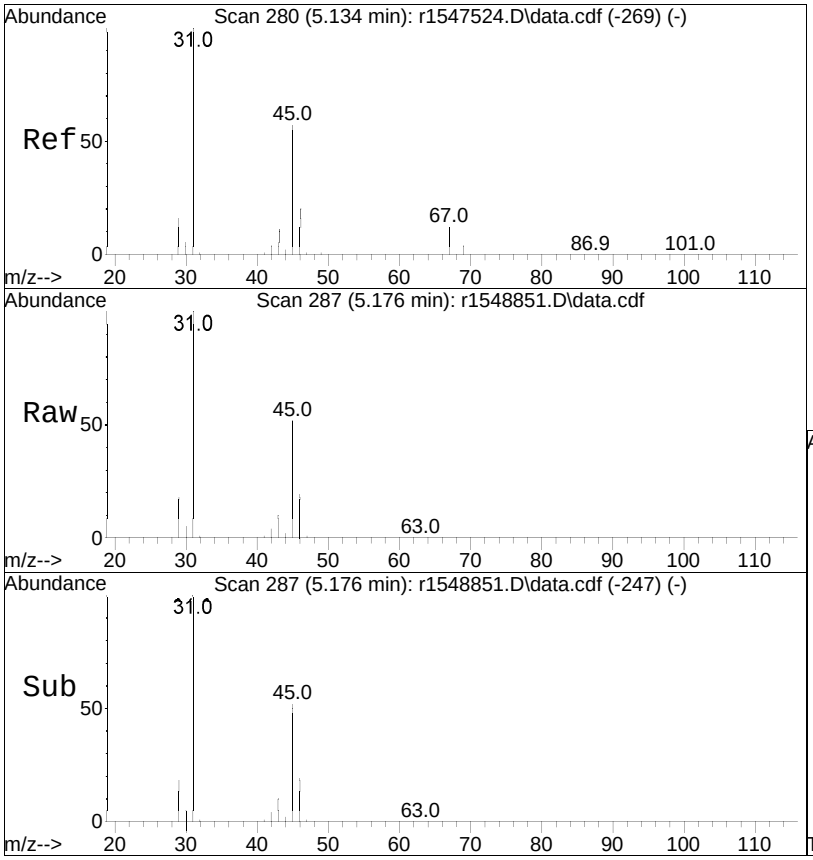


#6
chloromethane
Concen: 0.59 ppbV
RT: 4.186 min Scan# 122
Delta R.T. 0.036 min
Lab File: r1548851.D
Acq: 18 Jun 2024 8:35 PM

Tgt Ion: 50 Resp: 7007

Ion	Ratio	Lower	Upper
50	100		
52	34.9	26.0	39.0

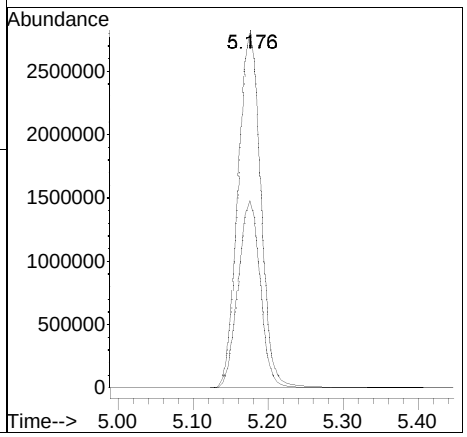


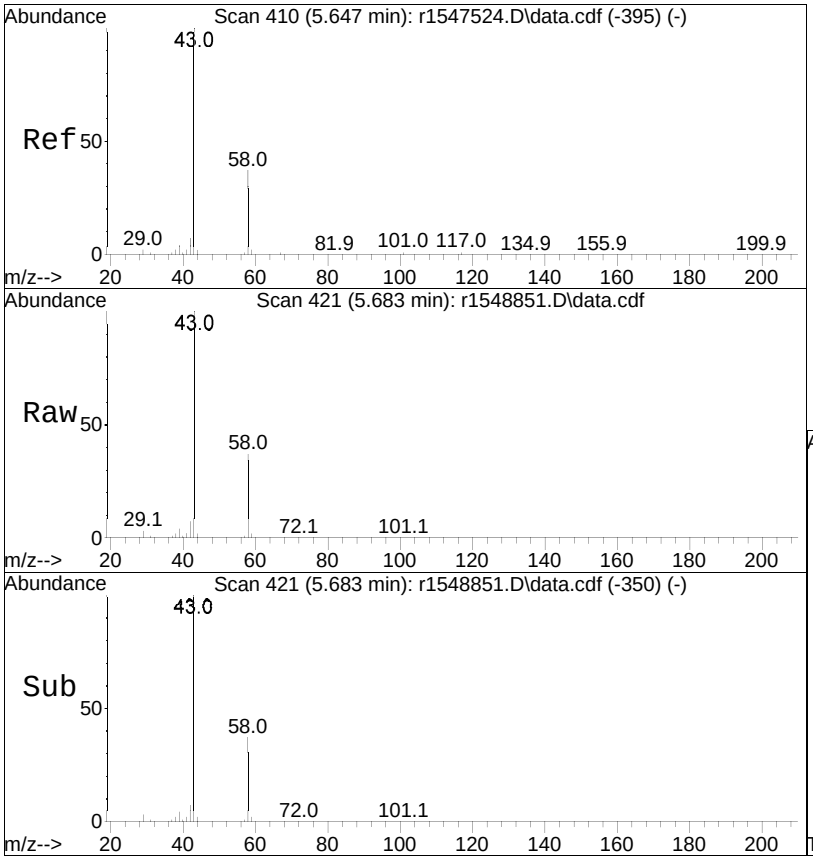


#15
ethanol
Concen: 586.34 ppbV
RT: 5.176 min Scan# 287
Delta R.T. 0.042 min
Lab File: r1548851.D
Acq: 18 Jun 2024 8:35 PM

Tgt Ion: 31 Resp: 5507873

Ion	Ratio	Lower	Upper
31	100		
45	52.4	45.7	68.5

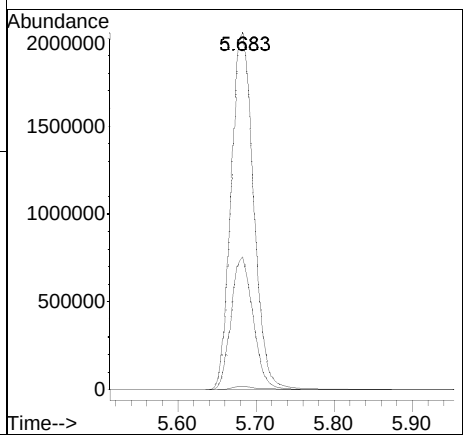


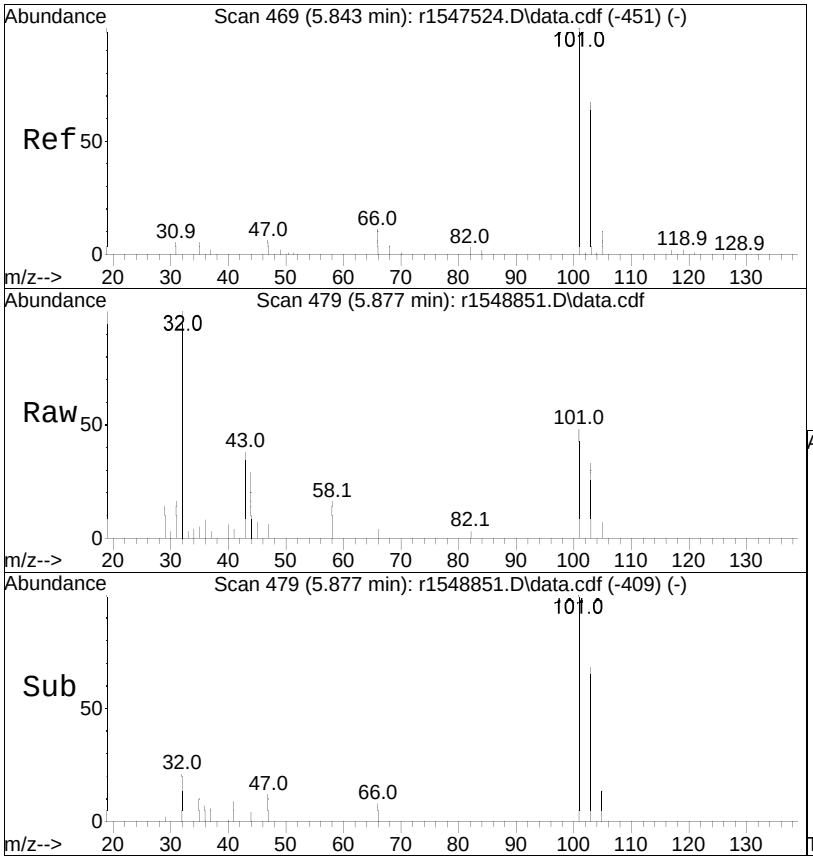


#19
acetone
Concen: 211.47 ppbV
RT: 5.683 min Scan# 421
Delta R.T. 0.037 min
Lab File: r1548851.D
Acq: 18 Jun 2024 8:35 PM

Tgt Ion: 43 Resp: 4006657

Ion	Ratio	Lower	Upper
43	100		
58	37.0	29.4	44.0
57	0.9	0.7	1.1

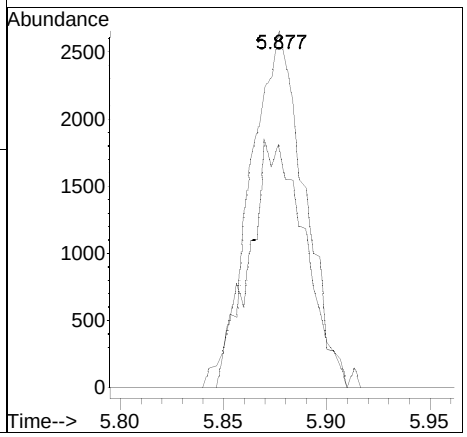


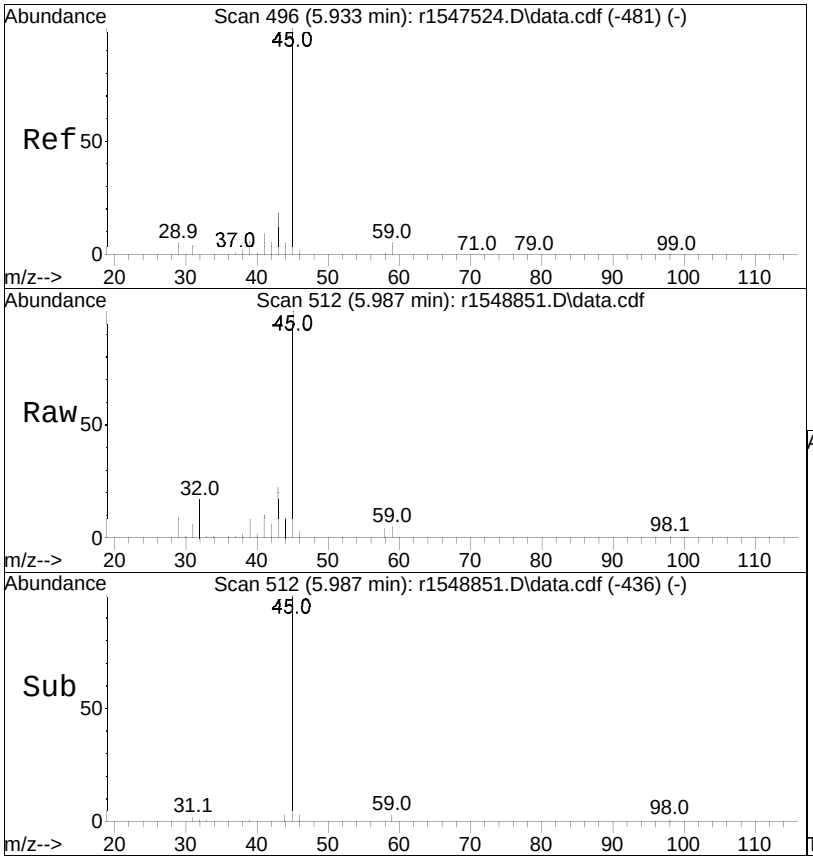


#21
trichlorofluoromethane
Concen: 0.19 ppbV
RT: 5.877 min Scan# 479
Delta R.T. 0.033 min
Lab File: r1548851.D
Acq: 18 Jun 2024 8:35 PM

Tgt Ion:101 Resp: 4839

Ion	Ratio	Lower	Upper
101	100		
103	68.2	53.4	80.0

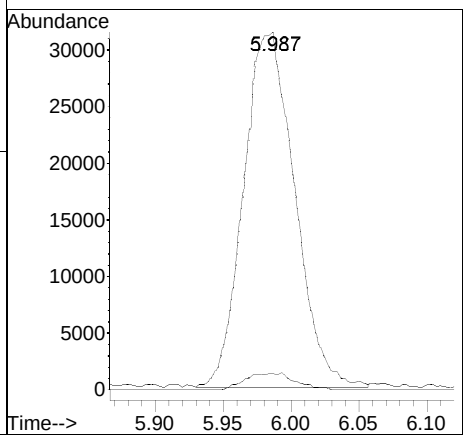


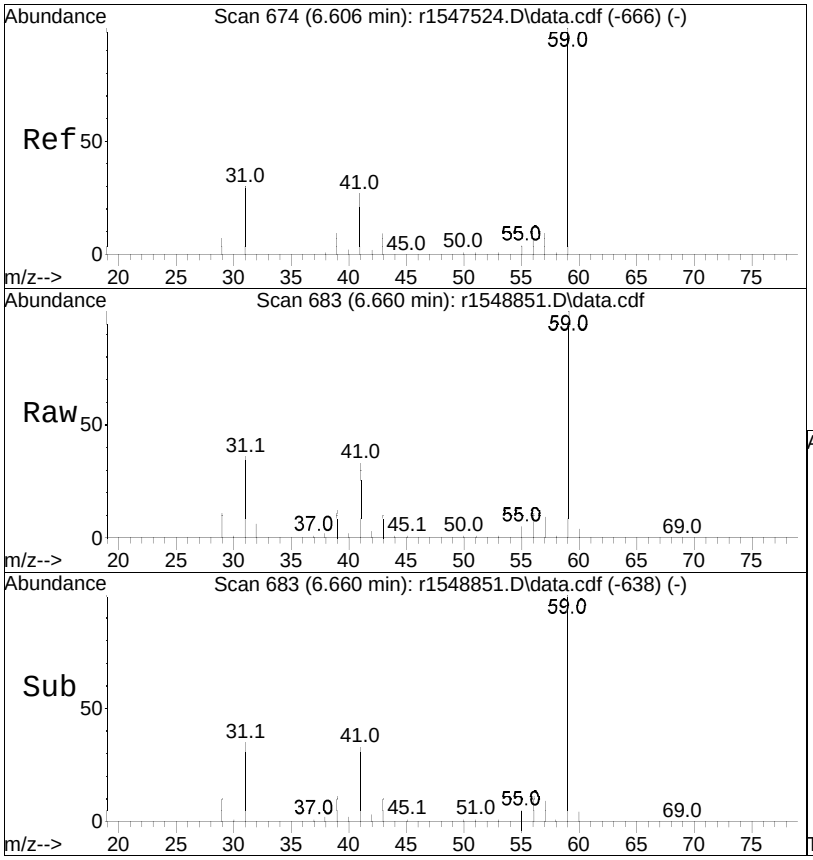


#22
isopropyl alcohol
Concen: 3.49 ppbV
RT: 5.987 min Scan# 512
Delta R.T. 0.053 min
Lab File: r1548851.D
Acq: 18 Jun 2024 8:35 PM

Tgt Ion: 45 Resp: 81087

Ion	Ratio	Lower	Upper
45	100		
59	4.6	3.8	5.6

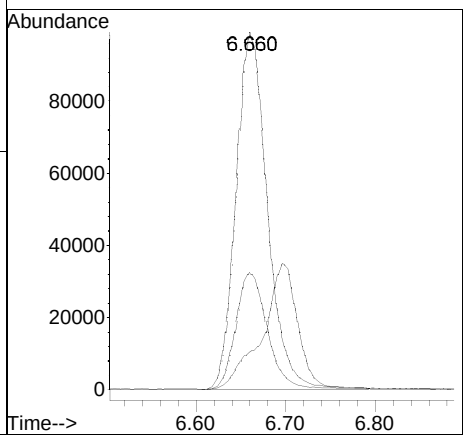


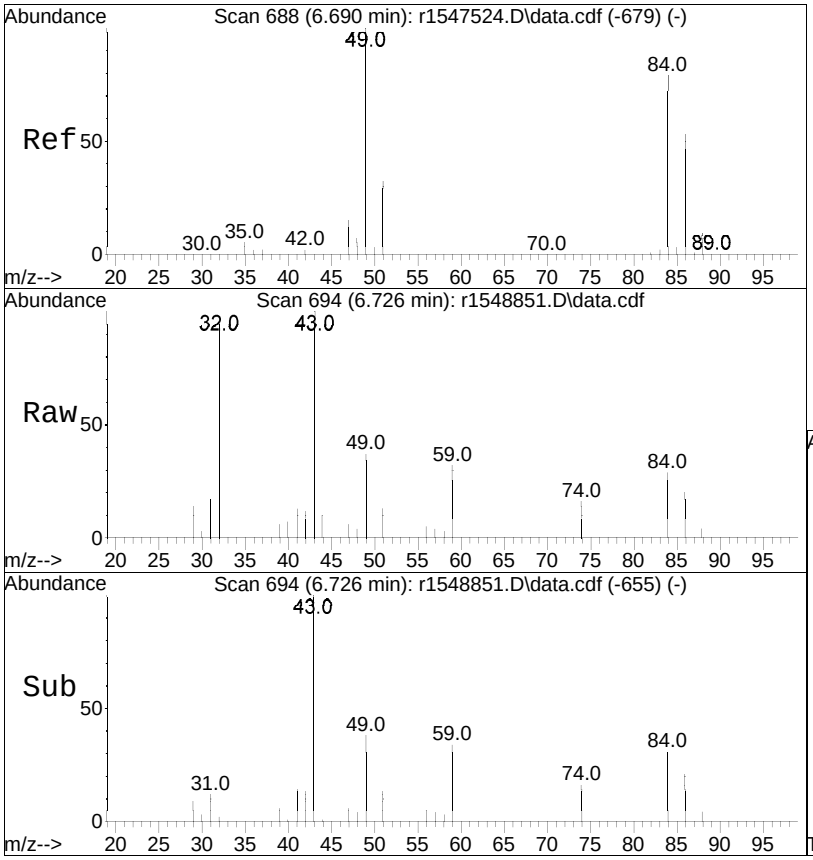


#27
tertiary butyl alcohol
Concen: 6.44 ppbV
RT: 6.660 min Scan# 683
Delta R.T. 0.054 min
Lab File: r1548851.D
Acq: 18 Jun 2024 8:35 PM

Tgt Ion: 59 Resp: 240294

Ion	Ratio	Lower	Upper
59	100		
41	33.0	21.3	31.9#
43	10.5	7.4	11.0

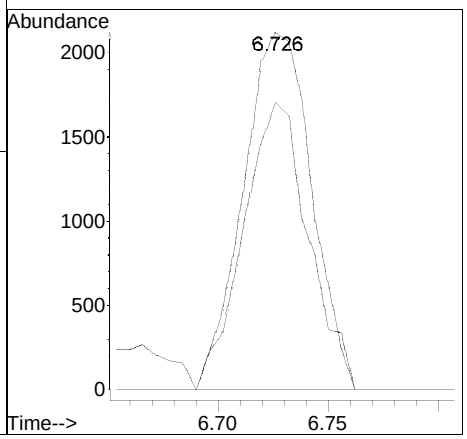


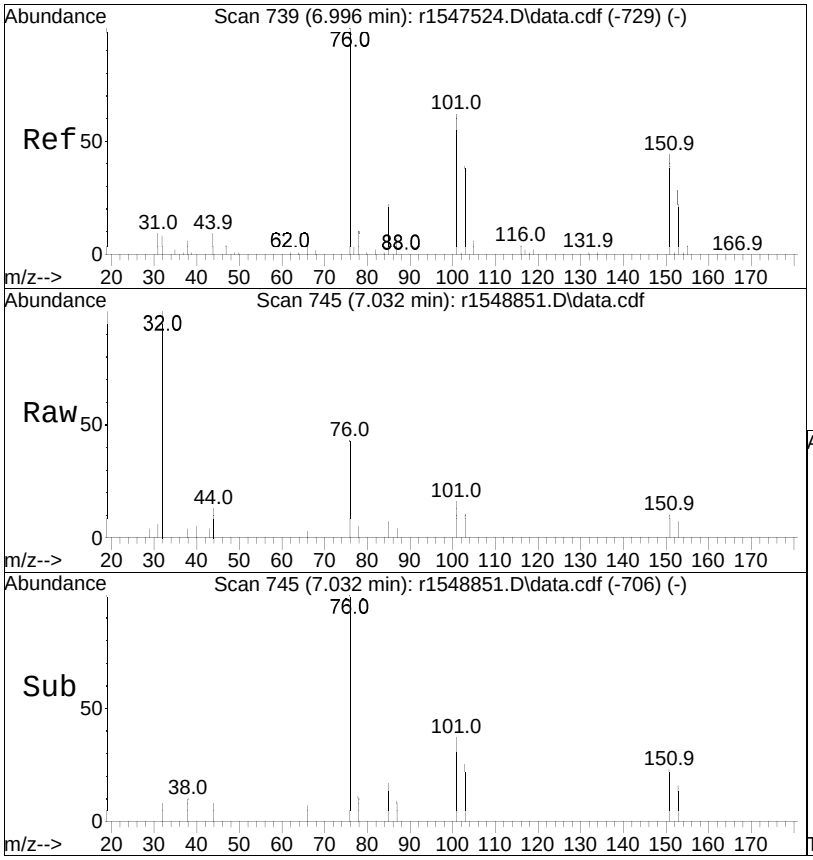


#28
methylene chloride
Concen: 0.21 ppbV
RT: 6.726 min Scan# 694
Delta R.T. 0.036 min
Lab File: r1548851.D
Acq: 18 Jun 2024 8:35 PM

Tgt Ion: 49 Resp: 4558

Ion	Ratio	Lower	Upper
49	100		
84	80.4	63.4	95.2

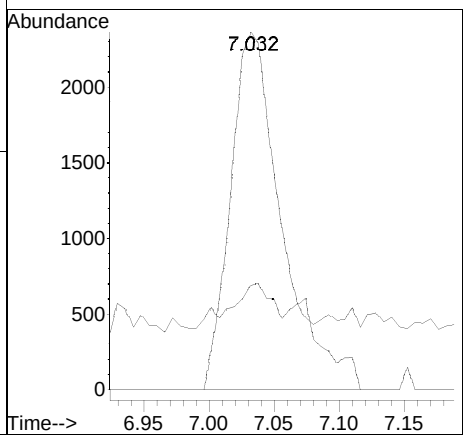


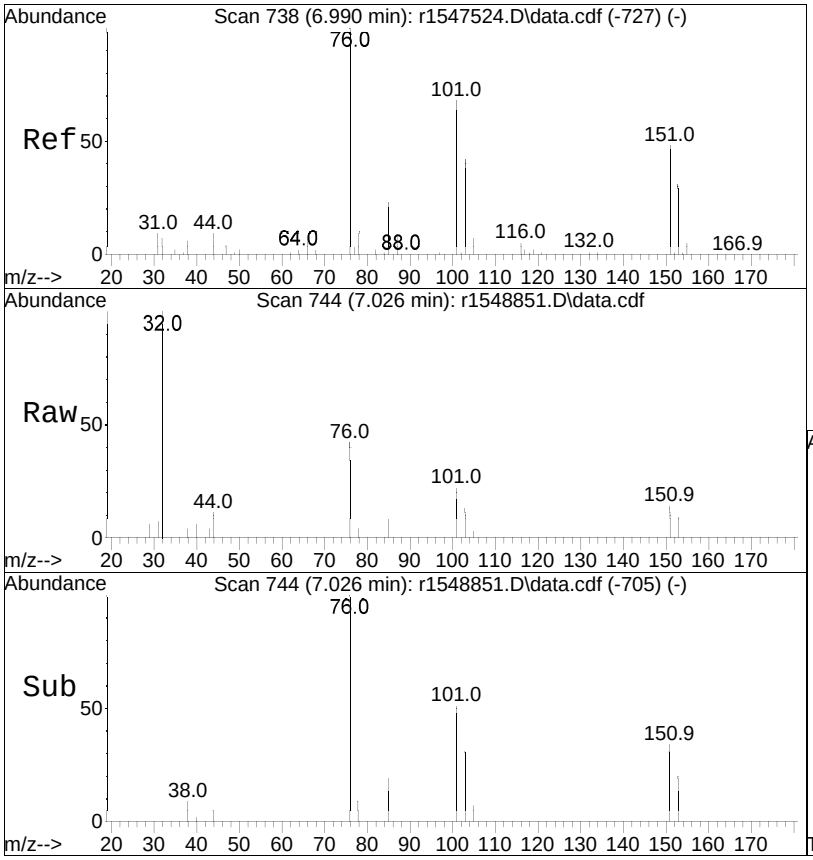


#30
carbon disulfide
Concen: 0.12 ppbV
RT: 7.032 min Scan# 745
Delta R.T. 0.036 min
Lab File: r1548851.D
Acq: 18 Jun 2024 8:35 PM

Tgt Ion: 76 Resp: 6493

Ion	Ratio	Lower	Upper
76	100		
44	29.1	7.5	11.3#

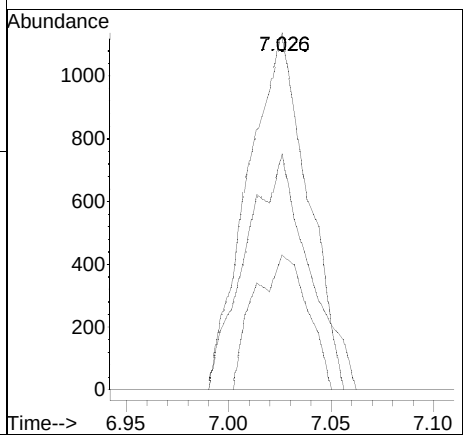


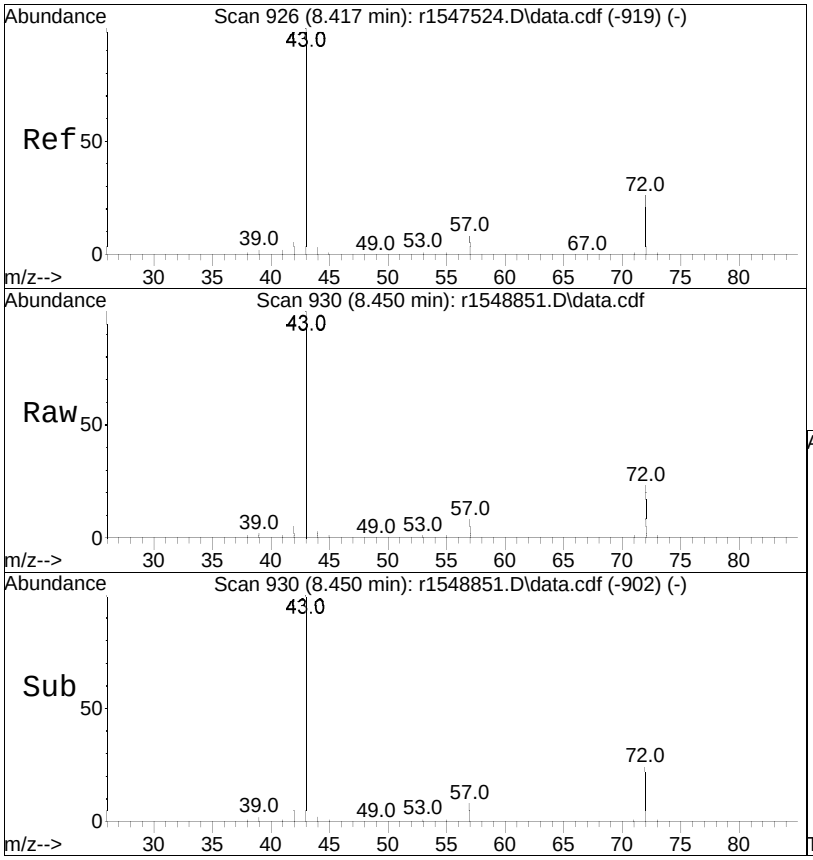


#31
Freon 113
Concen: 0.06 ppbV
RT: 7.026 min Scan# 744
Delta R.T. 0.036 min
Lab File: r1548851.D
Acq: 18 Jun 2024 8:35 PM

Tgt Ion:101 Resp: 2345

Ion	Ratio	Lower	Upper
101	100		
85	37.9	27.6	41.4
151	66.1	56.9	85.3

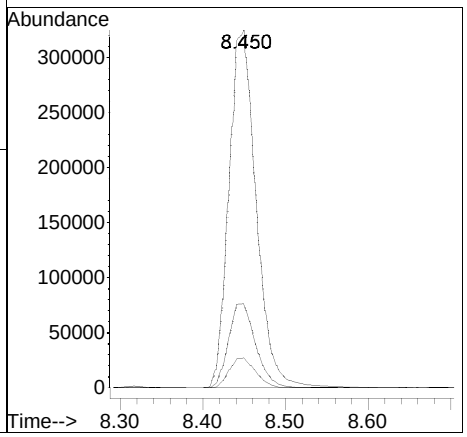


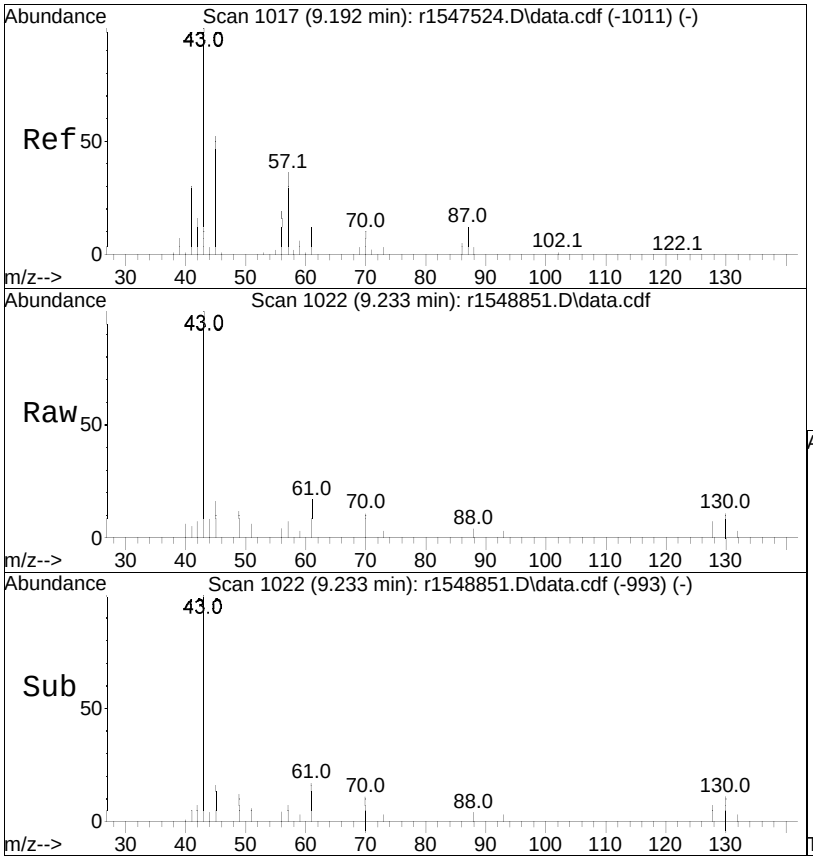


#36
2-butanone
Concen: 17.40 ppbV
RT: 8.450 min Scan# 930
Delta R.T. 0.033 min
Lab File: r1548851.D
Acq: 18 Jun 2024 8:35 PM

Tgt Ion: 43 Resp: 738404

Ion	Ratio	Lower	Upper
43	100		
72	23.5	20.9	31.3
57	8.2	6.6	10.0

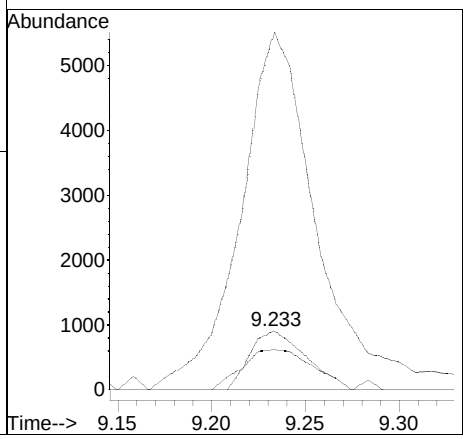


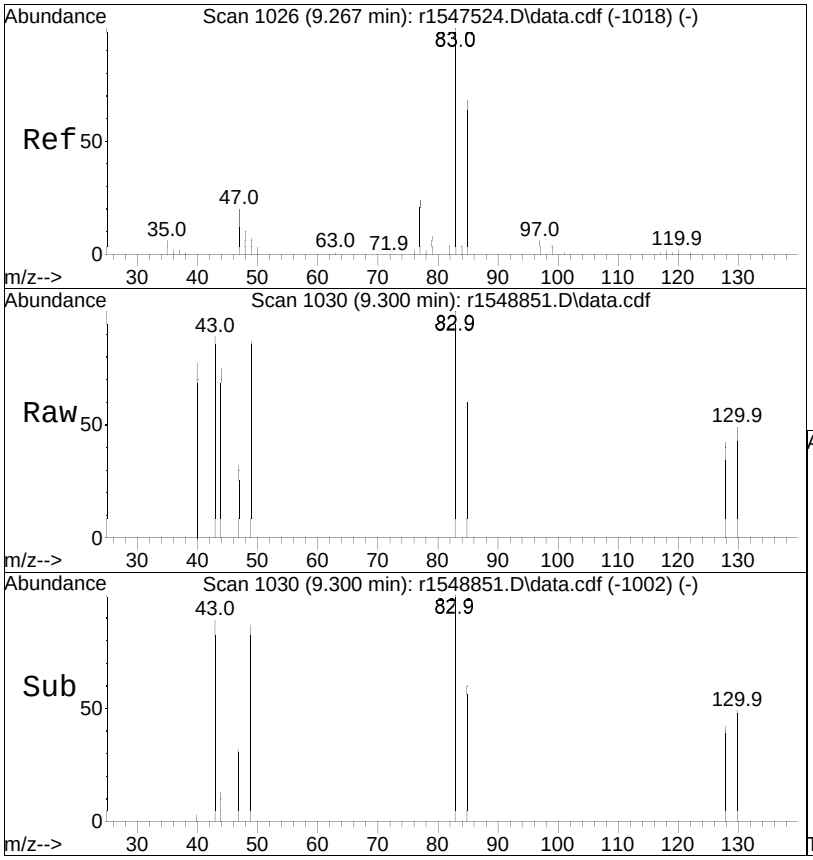


#38
Ethyl Acetate
Concen: 0.24 ppbV
RT: 9.233 min Scan# 1022
Delta R.T. 0.042 min
Lab File: r1548851.D
Acq: 18 Jun 2024 8:35 PM

Tgt Ion: 61 Resp: 1991

Ion	Ratio	Lower	Upper
61	100		
70	68.3	67.9	101.9
43	605.9	703.5	1055.3#

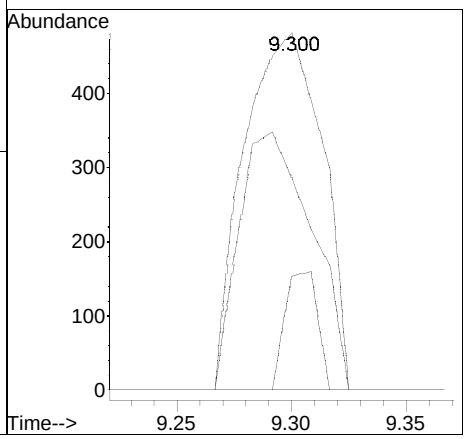


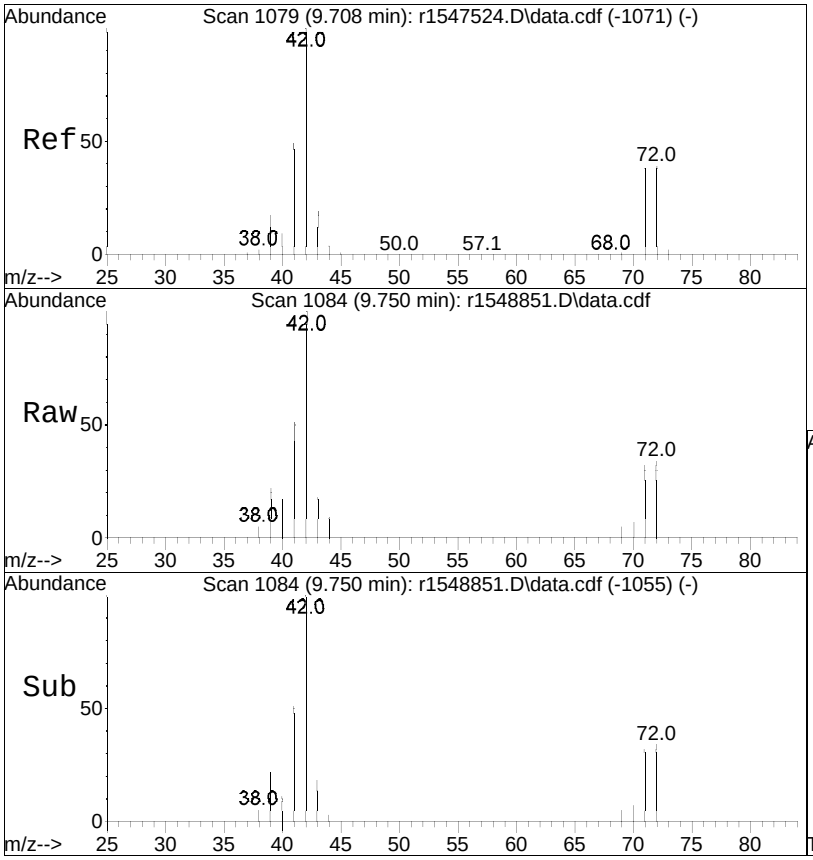


#39
chloroform
Concen: 0.03 ppbV
RT: 9.300 min Scan# 1030
Delta R.T. 0.033 min
Lab File: r1548851.D
Acq: 18 Jun 2024 8:35 PM

Tgt Ion: 83 Resp: 1136

Ion	Ratio	Lower	Upper
83	100		
85	59.5	54.3	81.5
47	32.0	16.4	24.6#

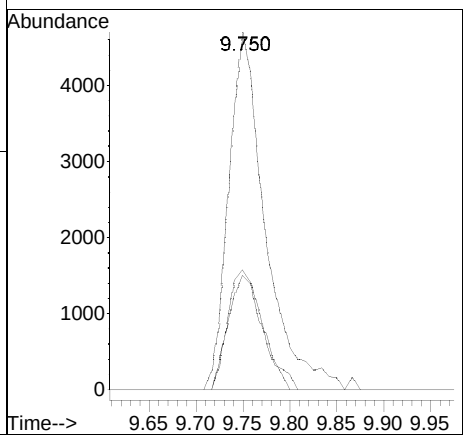


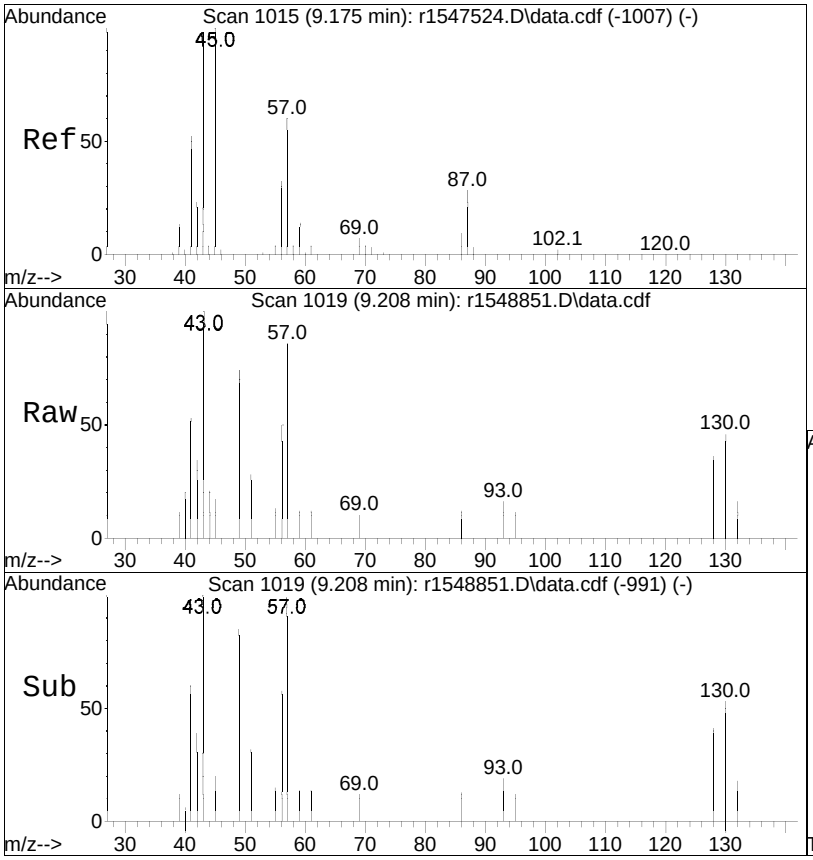


#40
Tetrahydrofuran
Concen: 0.47 ppbV
RT: 9.750 min Scan# 1084
Delta R.T. 0.042 min
Lab File: r1548851.D
Acq: 18 Jun 2024 8:35 PM

Tgt Ion: 42 Resp: 12707

Ion	Ratio	Lower	Upper
42	100		
71	32.1	30.1	45.1
72	33.6	31.4	47.2

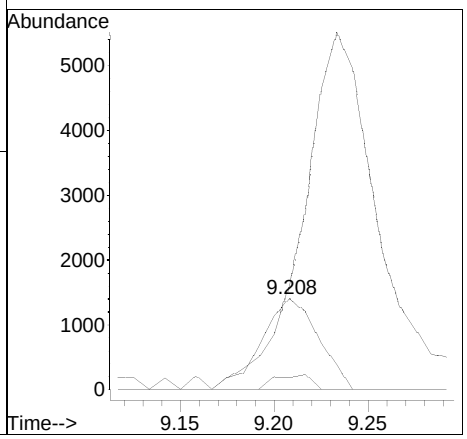


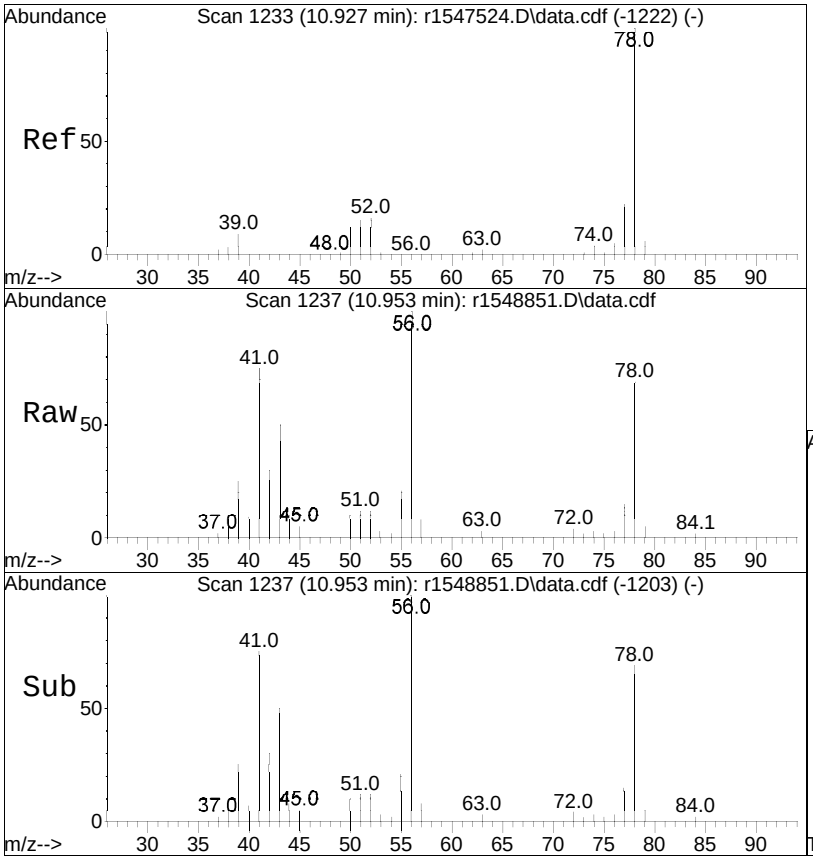


#44
hexane
Concen: 0.09 ppbV
RT: 9.208 min Scan# 1019
Delta R.T. 0.033 min
Lab File: r1548851.D
Acq: 18 Jun 2024 8:35 PM

Tgt Ion: 57 Resp: 2983

Ion	Ratio	Lower	Upper
57	100		
43	115.8	124.6	186.8#
86	13.4	11.5	17.3

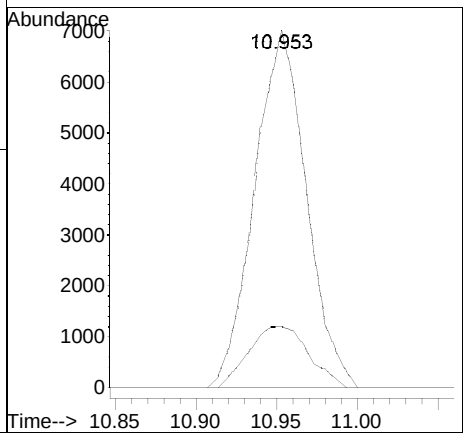


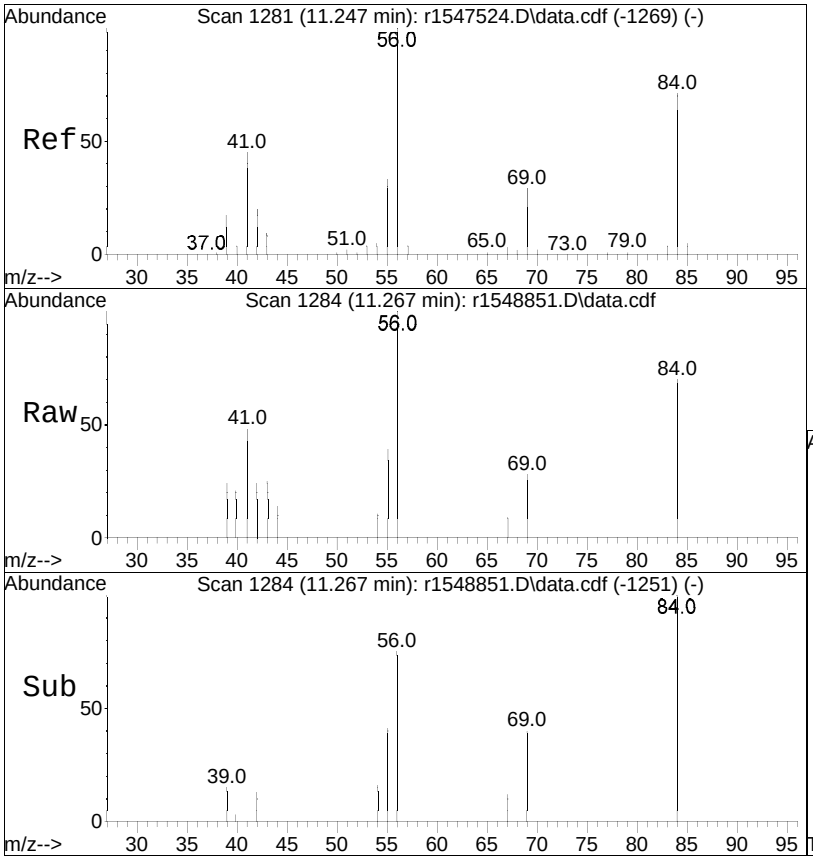


#50
benzene
Concen: 0.26 ppbV
RT: 10.953 min Scan# 1237
Delta R.T. 0.027 min
Lab File: r1548851.D
Acq: 18 Jun 2024 8:35 PM

Tgt Ion: 78 Resp: 15583

Ion	Ratio	Lower	Upper
78	100		
52	17.2	13.0	19.4

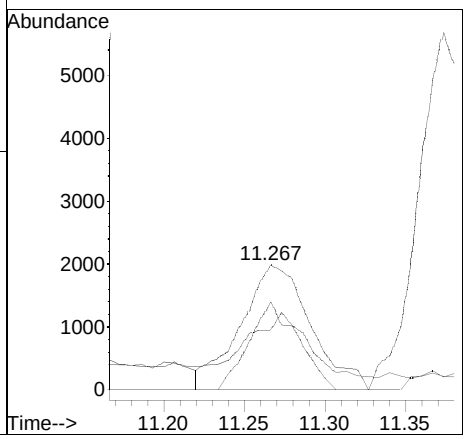


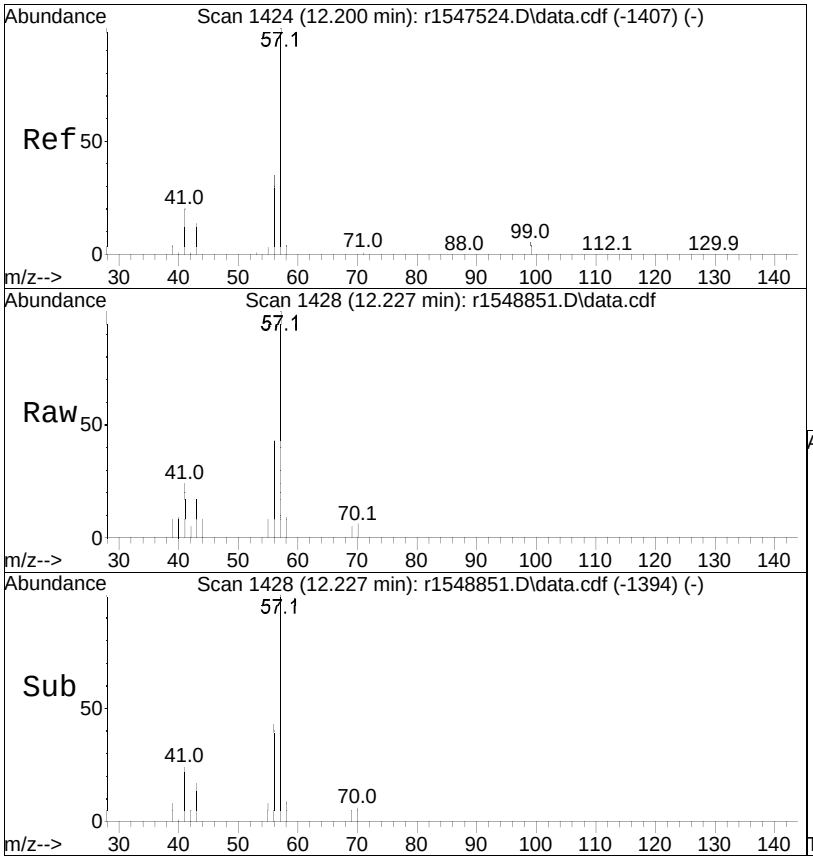


#53
cyclohexane
Concen: 0.16 ppbV
RT: 11.267 min Scan# 1284
Delta R.T. 0.020 min
Lab File: r1548851.D
Acq: 18 Jun 2024 8:35 PM

Tgt Ion: 56 Resp: 5973

Ion	Ratio	Lower	Upper
56	100		
84	70.2	57.2	85.8
41	47.9	35.9	53.9

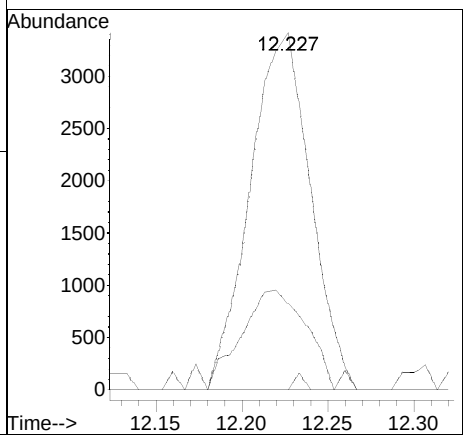


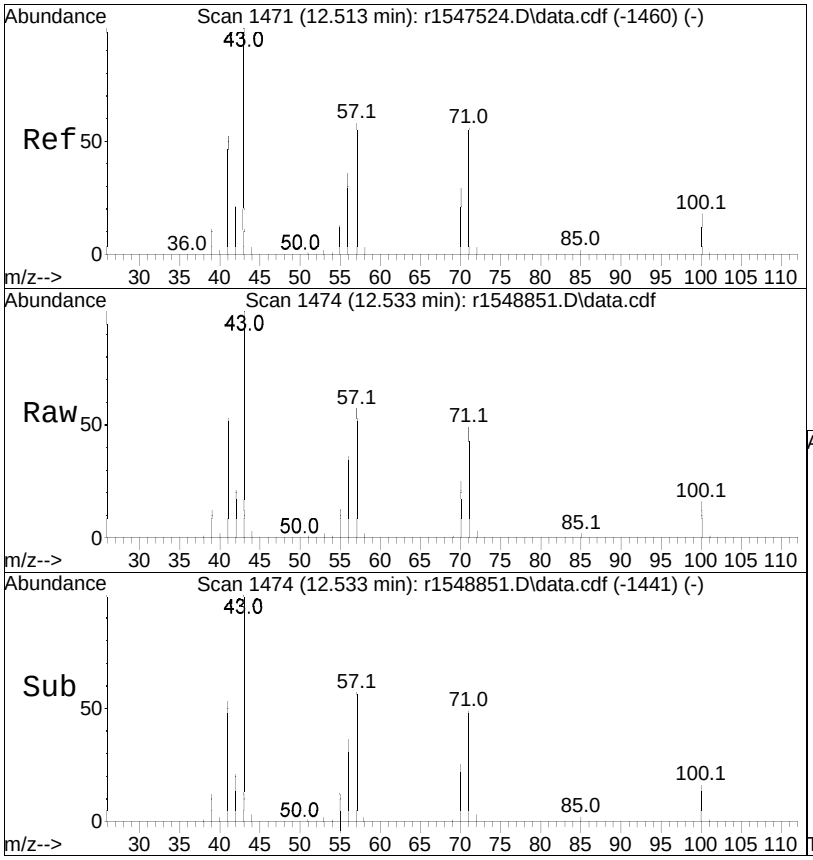


#60
2,2,4-trimethylpentane
Concen: 0.07 ppbV
RT: 12.227 min Scan# 1428
Delta R.T. 0.027 min
Lab File: r1548851.D
Acq: 18 Jun 2024 8:35 PM

Tgt Ion: 57 Resp: 8302

Ion	Ratio	Lower	Upper
57	100		
99	0.0	4.0	6.0#
41	24.4	16.1	24.1#

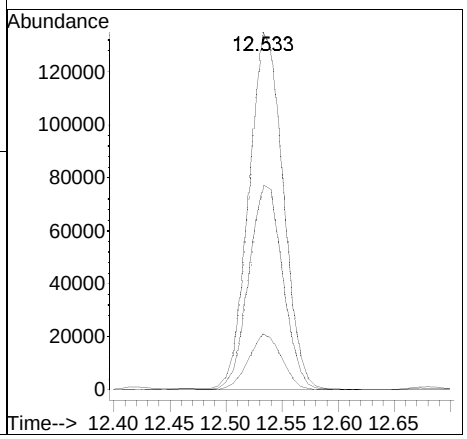


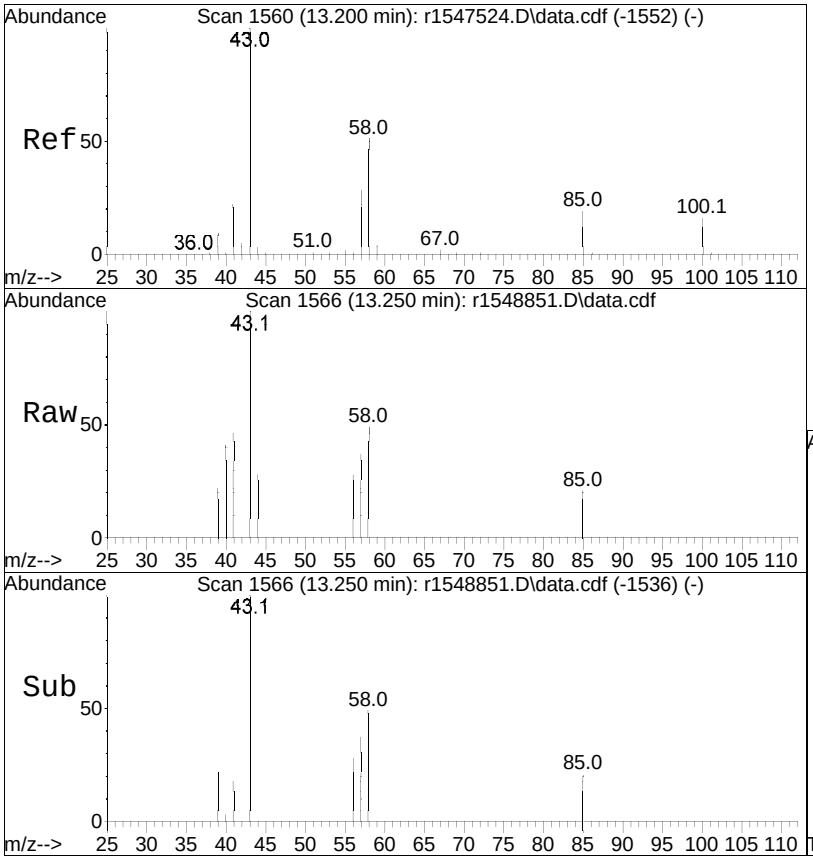


#62
heptane
Concen: 7.56 ppbV
RT: 12.533 min Scan# 1474
Delta R.T. 0.020 min
Lab File: r1548851.D
Acq: 18 Jun 2024 8:35 PM

Tgt Ion: 43 Resp: 284894

Ion	Ratio	Lower	Upper
43	100		
57	57.2	46.6	70.0
100	15.7	14.6	22.0

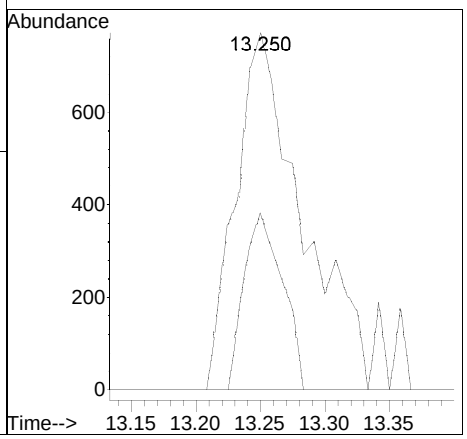


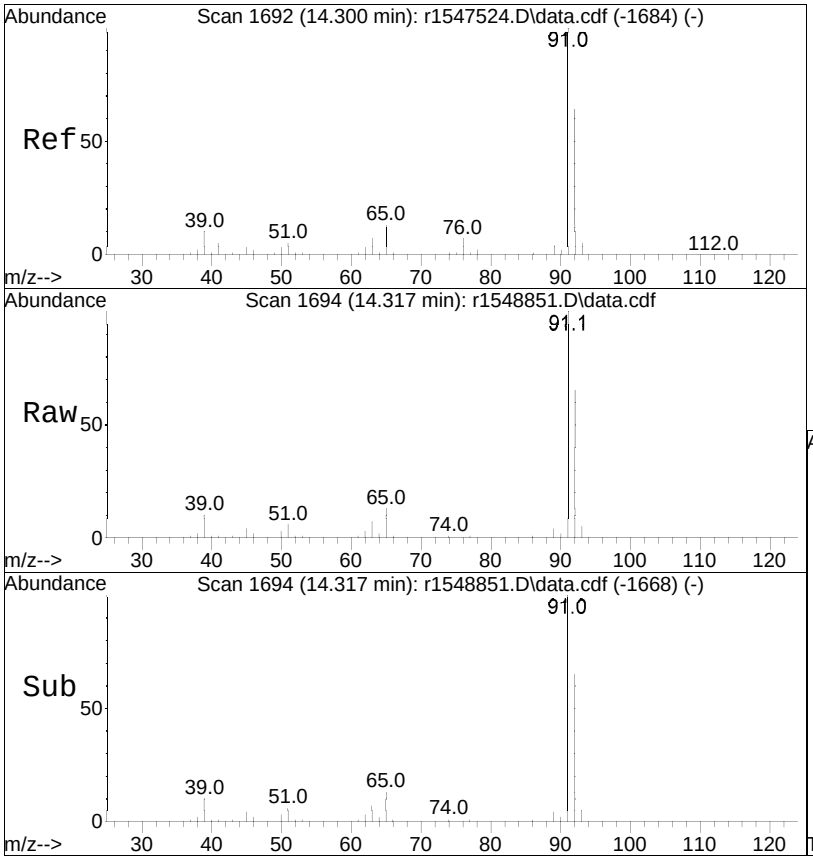


#64
4-methyl-2-pentanone
Concen: 0.06 ppbV
RT: 13.250 min Scan# 1566
Delta R.T. 0.050 min
Lab File: r1548851.D
Acq: 18 Jun 2024 8:35 PM

Tgt Ion: 43 Resp: 2773

Ion	Ratio	Lower	Upper
43	100		
58	49.5	41.0	61.4
100	0.0	13.0	19.6#

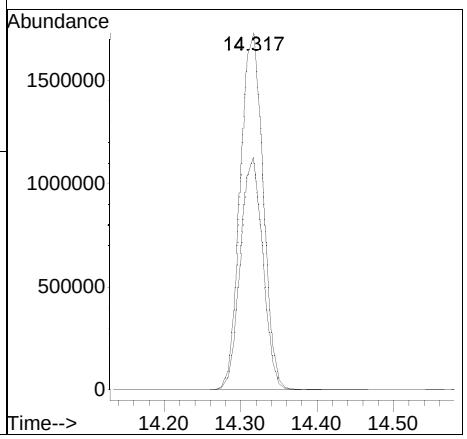


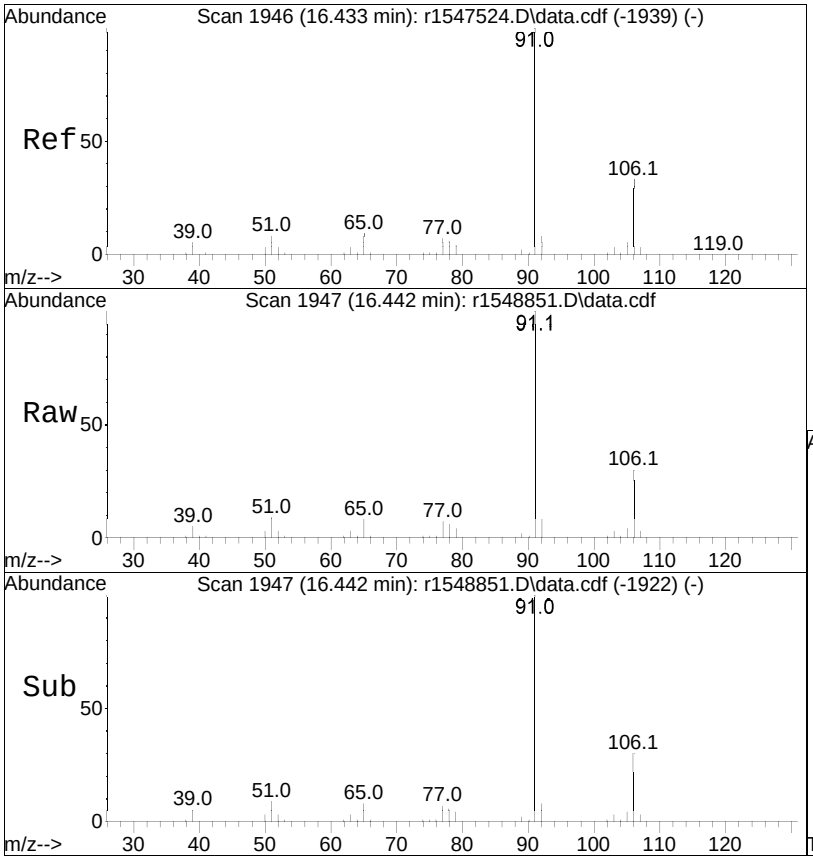


#68
toluene
Concen: 40.36 ppbV
RT: 14.317 min Scan# 1694
Delta R.T. 0.017 min
Lab File: r1548851.D
Acq: 18 Jun 2024 8:35 PM

Tgt Ion: 91 Resp: 3583206

Ion	Ratio	Lower	Upper
91	100		
92	65.3	51.6	77.4

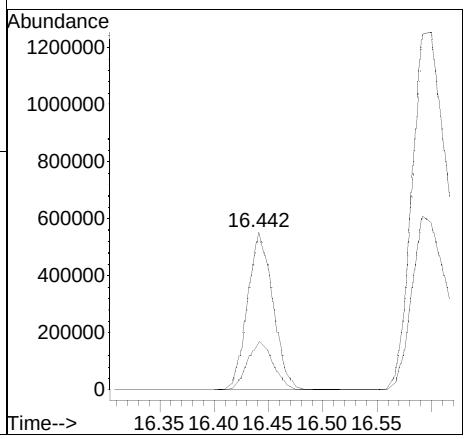


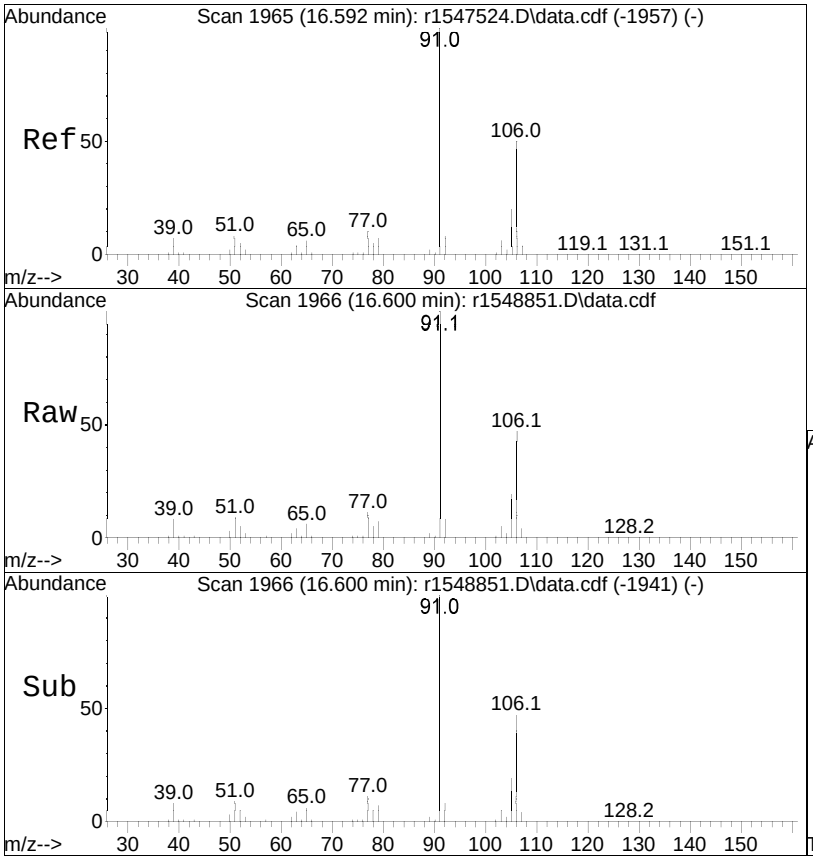


#81
ethylbenzene
Concen: 7.96 ppbV
RT: 16.442 min Scan# 1947
Delta R.T. 0.008 min
Lab File: r1548851.D
Acq: 18 Jun 2024 8:35 PM

Tgt Ion: 91 Resp: 905737

Ion	Ratio	Lower	Upper
91	100		
106	30.4	26.1	39.1

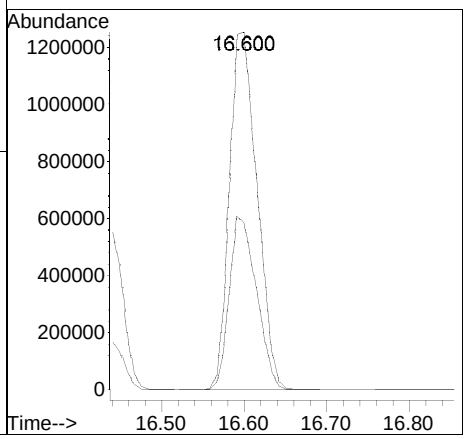


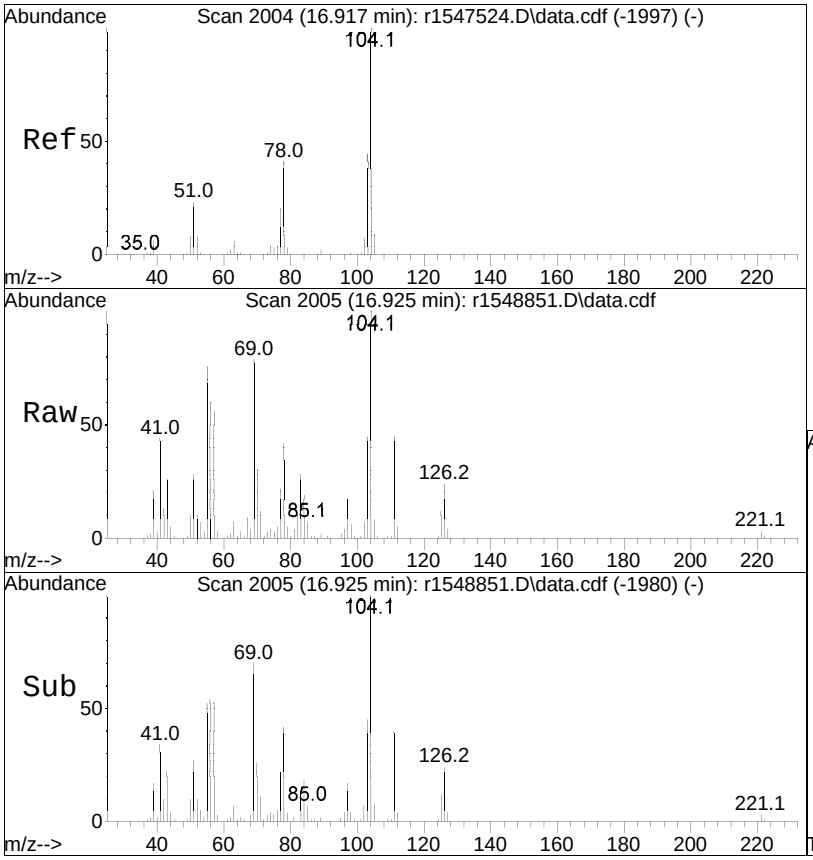


#83
m+p-xylene
Concen: 32.55 ppbV
RT: 16.600 min Scan# 1966
Delta R.T. 0.008 min
Lab File: r1548851.D
Acq: 18 Jun 2024 8:35 PM

Tgt Ion: 91 Resp: 2899708

Ion	Ratio	Lower	Upper
91	100		
106	46.7	40.1	60.1

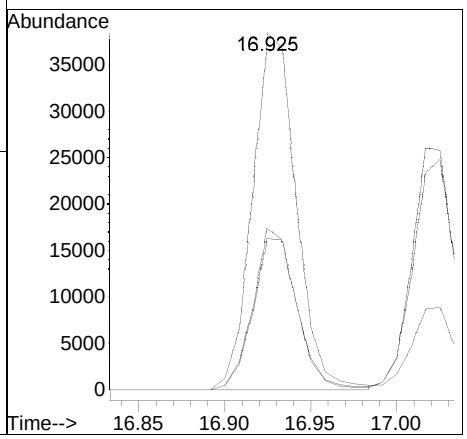


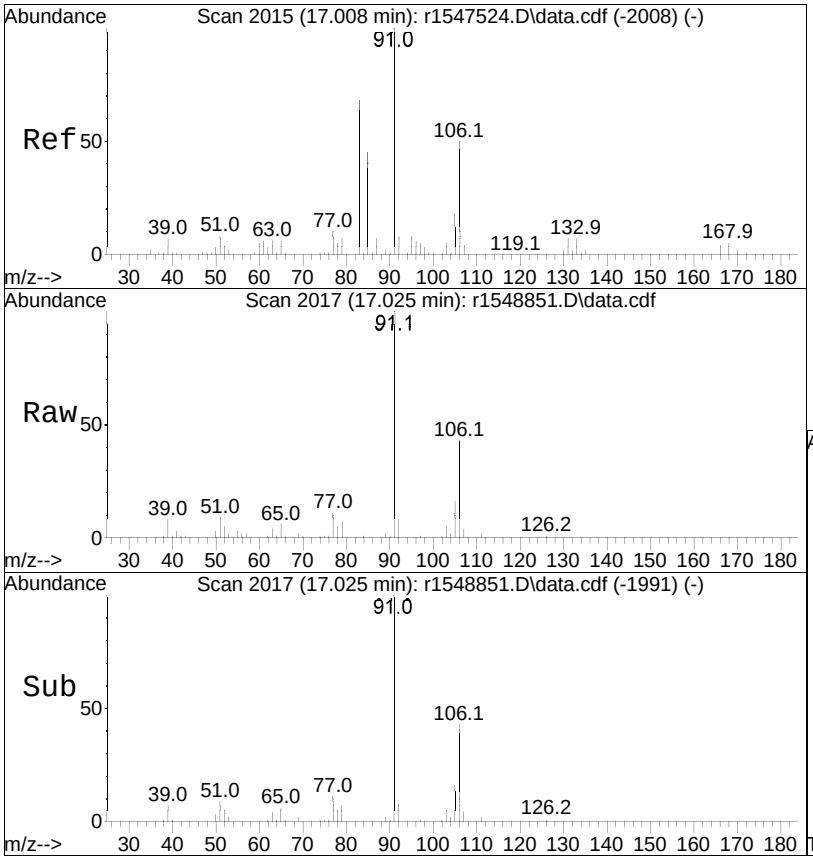


#85
styrene
Concen: 0.97 ppbV
RT: 16.925 min Scan# 2005
Delta R.T. 0.008 min
Lab File: r1548851.D
Acq: 18 Jun 2024 8:35 PM

Tgt Ion:104 Resp: 67803

Ion	Ratio	Lower	Upper
104	100		
103	45.2	35.2	52.8
78	42.5	32.6	48.8

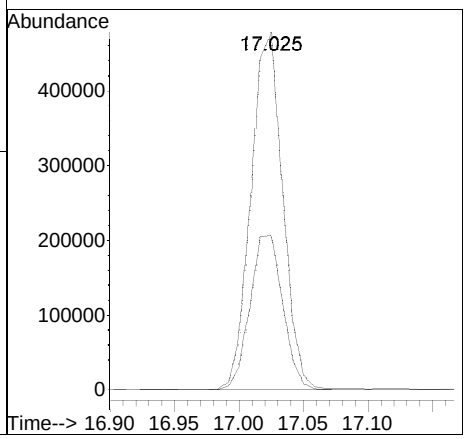


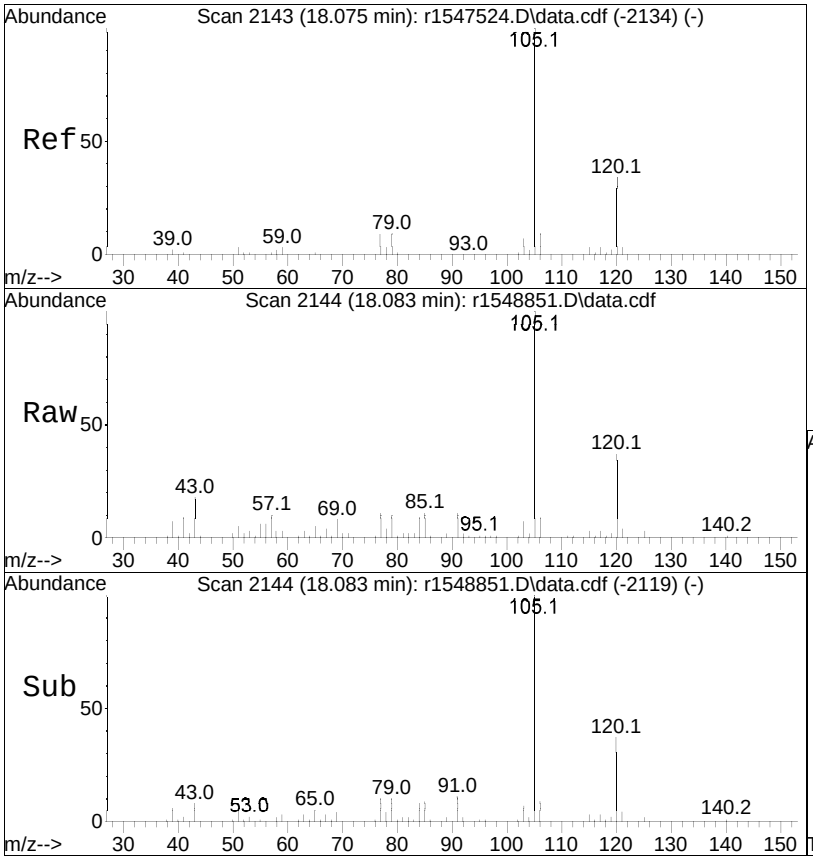


#87
o-xylene
Concen: 9.08 ppbV
RT: 17.025 min Scan# 2017
Delta R.T. 0.017 min
Lab File: r1548851.D
Acq: 18 Jun 2024 8:35 PM

Tgt Ion: 91 Resp: 808192

Ion	Ratio	Lower	Upper
91	100		
106	43.4	39.6	59.4

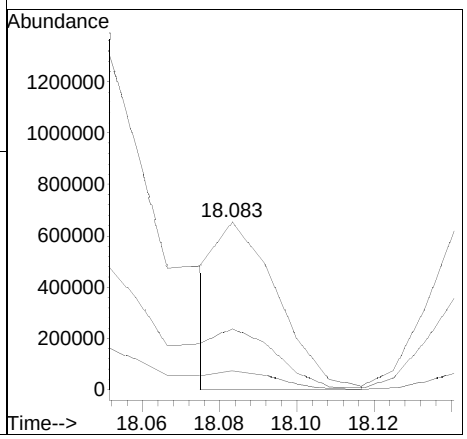


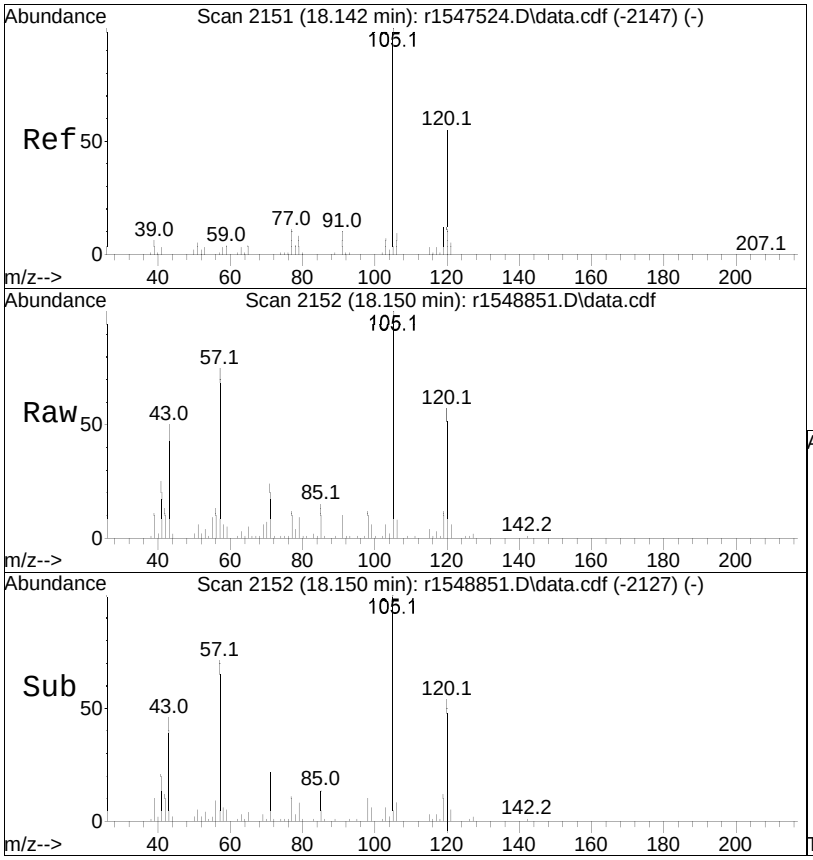


#96
4-ethyl toluene
Concen: 5.99 ppbV m
RT: 18.083 min Scan# 2144
Delta R.T. 0.008 min
Lab File: r1548851.D
Acq: 18 Jun 2024 8:35 PM

Tgt Ion:105 Resp: 703841

Ion	Ratio	Lower	Upper
105	100		
120	36.5	27.2	40.8
91	11.3	7.9	11.9

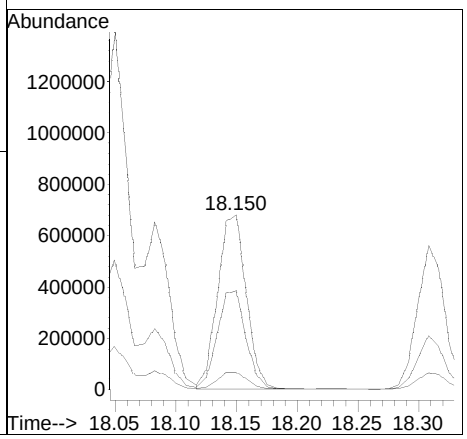


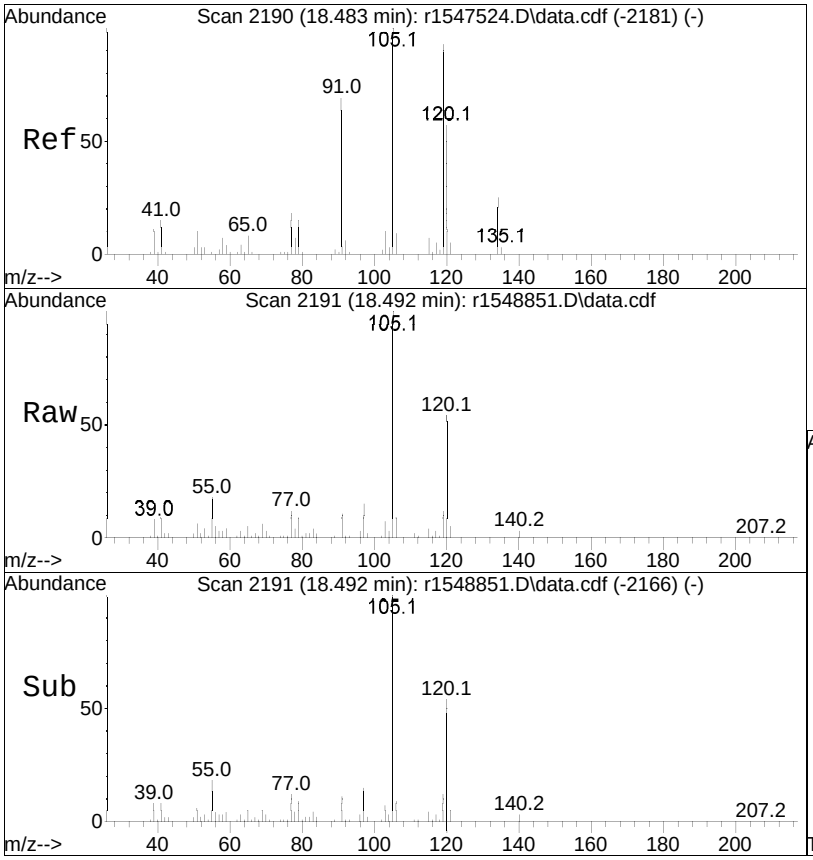


#97
1,3,5-trimethylbenzene
Concen: 11.13 ppbV
RT: 18.150 min Scan# 2152
Delta R.T. 0.008 min
Lab File: r1548851.D
Acq: 18 Jun 2024 8:35 PM

Tgt Ion:105 Resp: 1263651

Ion	Ratio	Lower	Upper
105	100		
120	56.7	44.2	66.2
91	10.2	8.0	12.0

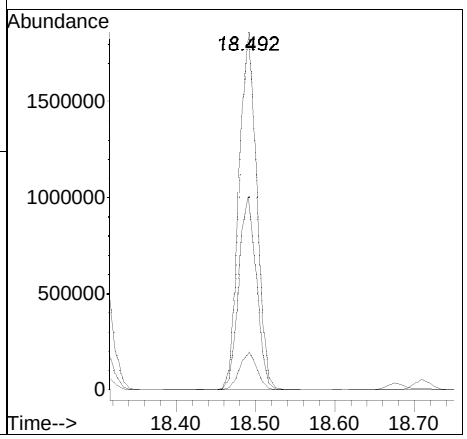


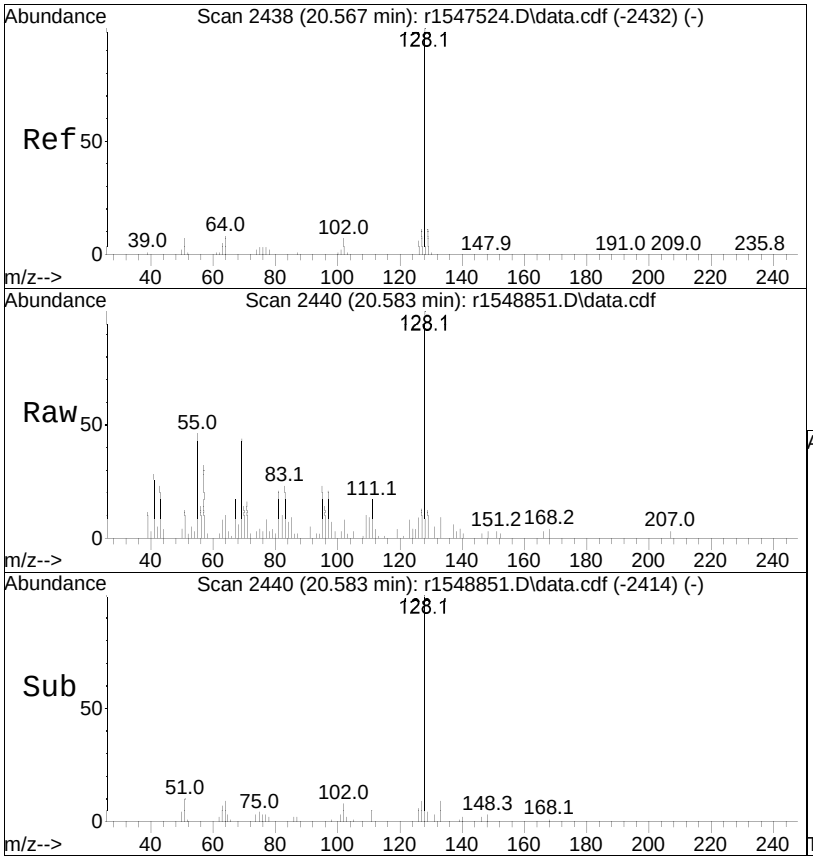


#99
1,2,4-trimethylbenzene
Concen: 29.47 ppbV
RT: 18.492 min Scan# 2191
Delta R.T. 0.008 min
Lab File: r1548851.D
Acq: 18 Jun 2024 8:35 PM

Tgt Ion:105 Resp: 2849536

Ion	Ratio	Lower	Upper
105	100		
120	54.2	45.4	68.2
91	10.6	55.0	82.6#

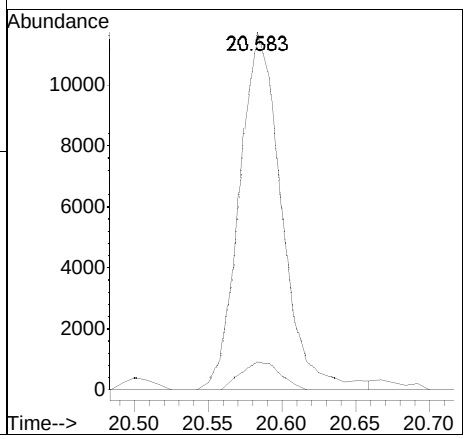




#116
naphthalene
Concen: 0.18 ppbV
RT: 20.583 min Scan# 2440
Delta R.T. 0.017 min
Lab File: r1548851.D
Acq: 18 Jun 2024 8:35 PM

Tgt Ion:128 Resp: 23202

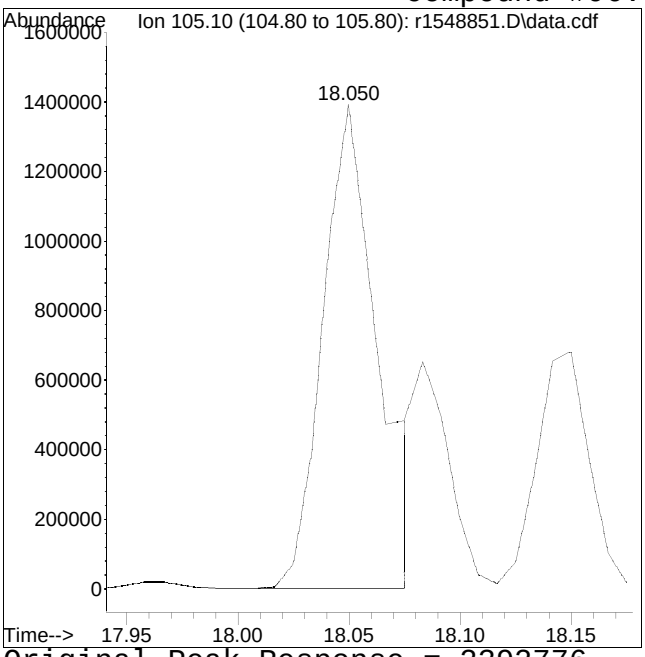
Ion	Ratio	Lower	Upper
128	100		
102	8.0	5.4	8.0



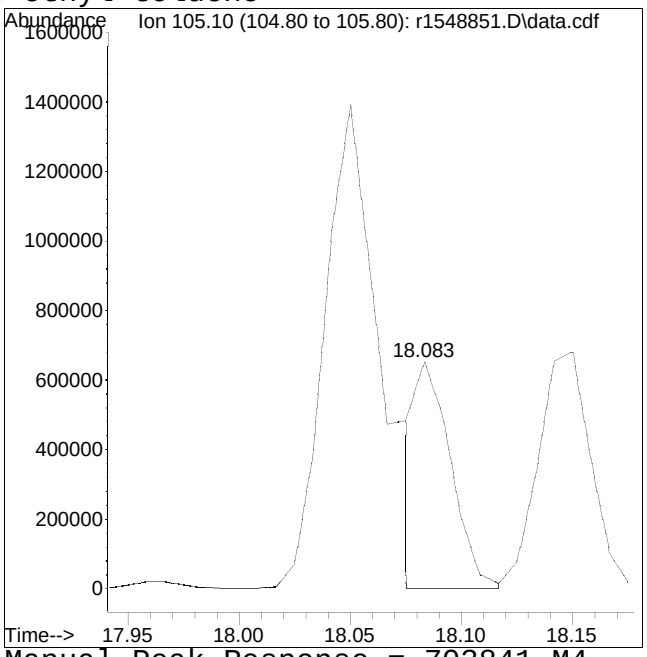
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1548851.D Operator : AIRLAB15:JMB
Date Inj'd : 6/18/2020 0:8: 5 Instrument :
Sample : L2432670-03,3,250,250 Quant Date : 6/19/2024 7:05 am

Compound #96: 4-ethyl toluene



Original Peak Response = 2392776



Manual Peak Response = 703841 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548852.D
Acq On : 18 Jun 2024 9:12 PM
Operator : AIRLAB15:JMB
Sample : L2432670-04,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:06:36 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618T\r1548845.D
Sub List : TO15-NY+NAPH-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.142	49	287326	10.000	ppbV	0.02
Standard Area = 309658			Recovery =		92.79%	
43) 1,4-difluorobenzene	11.373	114	766378	10.000	ppbV	0.03
Standard Area = 833704			Recovery =		91.92%	
67) chlorobenzene-D5	16.058	54	137767	10.000	ppbV	0.02
Standard Area = 146665			Recovery =		93.93%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.018	85	14147	0.455	ppbV	98
6) chloromethane	4.186	50	7600	0.643	ppbV	99
7) Freon-114	4.294		0	N.D.		
10) 1,3-butadiene	4.558		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.176	31	3152404	334.886	ppbV	94
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.683	43	9153223	482.105	ppbV	99
21) trichlorofluoromethane	5.877	101	5237	0.206	ppbV	94
22) isopropyl alcohol	5.993	45	358402	15.384	ppbV	99
27) tertiary butyl alcohol	6.678	59	93783M6	2.510	ppbV	
28) methylene chloride	6.726	49	8520	0.400	ppbV	98
29) 3-chloropropene	0.000		0	N.D.	d	
30) carbon disulfide	7.032	76	9625	0.177	ppbV #	65
31) Freon 113	7.026	101	2310	0.060	ppbV	94
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.		
36) 2-butanone	8.450	43	722169	16.985	ppbV	96
38) Ethyl Acetate	9.233	61	4714	0.577	ppbV #	34
39) chloroform	9.292	83	1702	0.051	ppbV #	95
40) Tetrahydrofuran	9.742	42	34839	1.295	ppbV	96
42) 1,2-dichloroethane	10.133		0	N.D.		
44) hexane	9.208	57	5808	0.173	ppbV	95
50) benzene	10.953	78	11811	0.200	ppbV #	90
53) cyclohexane	11.267	56	7976	0.222	ppbV #	85
56) 1,2-dichloropropane	0.000		0	N.D.		

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548852.D
Acq On : 18 Jun 2024 9:12 PM
Operator : AIRLAB15:JMB
Sample : L2432670-04,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:06:36 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618T\r1548845.D
Sub List : TO15-NY+NAPH-7-SIM - .

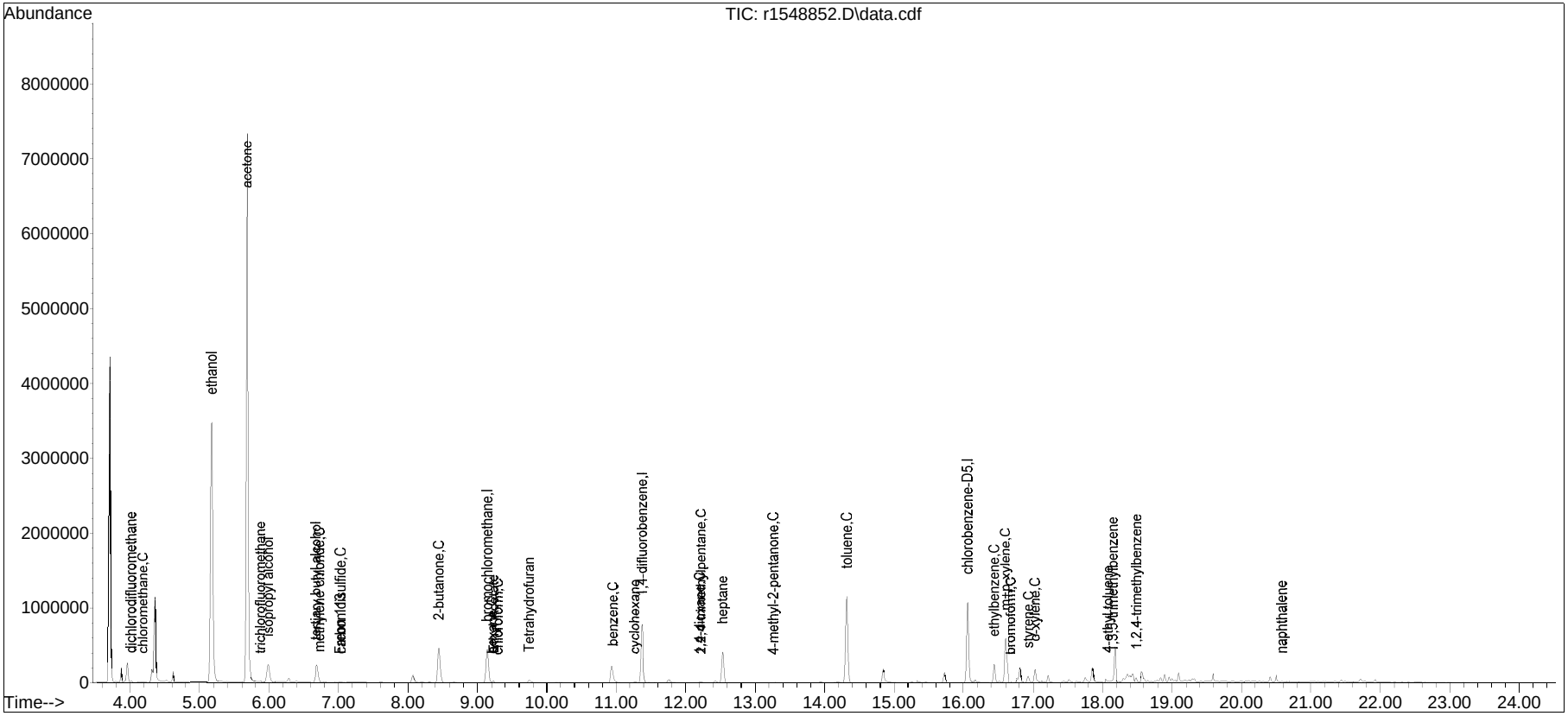
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
57)	bromodichloromethane	0.000		0	N.D.			
58)	1,4-dioxane	12.200	88	5327	0.393	ppbV		89
60)	2,2,4-trimethylpentane	12.220	57	10950	0.098	ppbV	#	89
62)	heptane	12.533	43	214028	5.736	ppbV		97
63)	cis-1,3-dichloropropene	0.000		0	N.D.			
64)	4-methyl-2-pentanone	13.258	43	4009	0.094	ppbV	#	77
65)	trans-1,3-dichloropropene	0.000		0	N.D.			
66)	1,1,2-trichloroethane	0.000		0	N.D.			
68)	toluene	14.317	91	969703	11.181	ppbV		99
72)	2-hexanone	14.575		0	N.D.			
74)	dibromochloromethane	0.000		0	N.D.			
75)	1,2-dibromoethane	0.000		0	N.D.			
80)	chlorobenzene	16.117		0	N.D.			
81)	ethylbenzene	16.442	91	196922	1.772	ppbV		98
83)	m+p-xylene	16.600	91	501145	5.759	ppbV		96
84)	bromoform	16.675	173	1257	0.042	ppbV		98
85)	styrene	16.933	104	31286	0.457	ppbV		98
86)	1,1,2,2-tetrachloroethane	17.000		0	N.D.			
87)	o-xylene	17.025	91	114519	1.317	ppbV		93
96)	4-ethyl toluene	18.083	105	6397M6	0.056	ppbV		
97)	1,3,5-trimethylbenzene	18.150	105	6856	0.062	ppbV		98
99)	1,2,4-trimethylbenzene	18.492	105	23210	0.246	ppbV	#	57
101)	Benzyl Chloride	18.608		0	N.D.			
102)	1,3-dichlorobenzene	18.625		0	N.D.			
103)	1,4-dichlorobenzene	18.683		0	N.D.			
107)	1,2-dichlorobenzene	0.000		0	N.D.			
115)	1,2,4-trichlorobenzene	20.467		0	N.D.			
116)	naphthalene	20.583	128	9509	0.077	ppbV	#	95
119)	hexachlorobutadiene	0.000		0	N.D.			

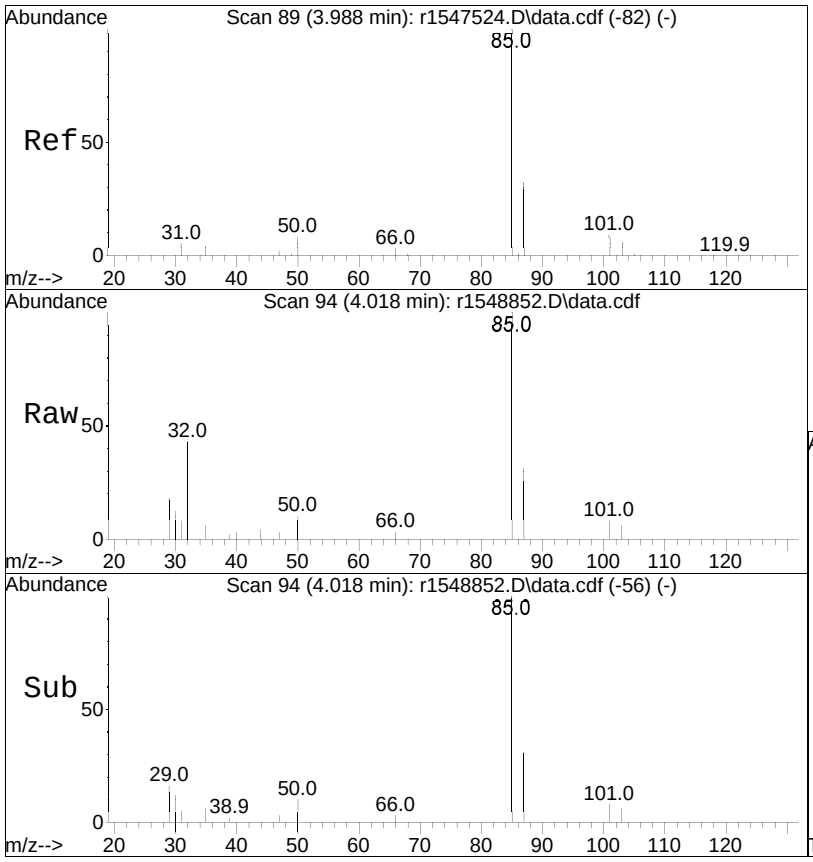
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY+NAPH-7-SIM - .ab15\2024\06\0618T\r1548845.D

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548852.D
Acq On : 18 Jun 2024 9:12 PM
Operator : AIRLAB15:JMB
Sample : L2432670-04,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:06:36 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

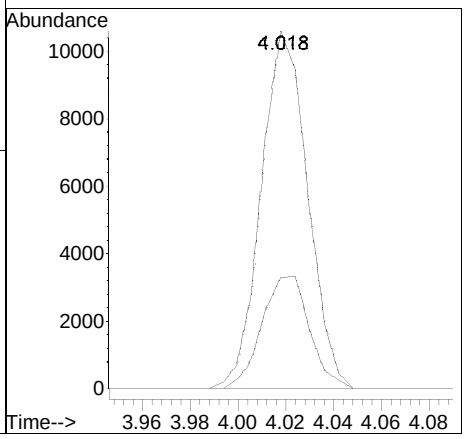


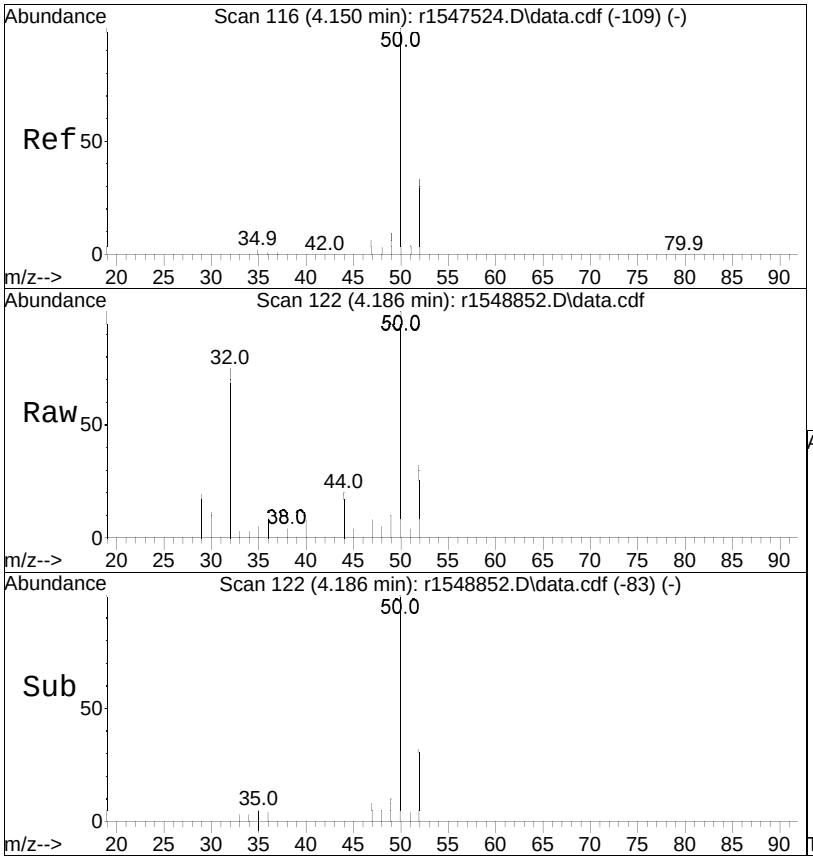


#5
dichlorodifluoromethane
Concen: 0.46 ppbV
RT: 4.018 min Scan# 94
Delta R.T. 0.030 min
Lab File: r1548852.D
Acq: 18 Jun 2024 9:12 PM

Tgt Ion: 85 Resp: 14147

Ion	Ratio	Lower	Upper
85	100		
87	31.1	25.8	38.8

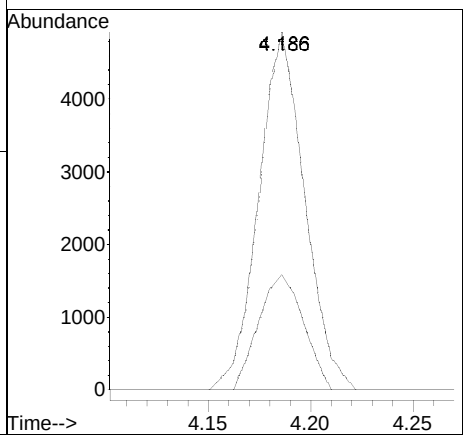


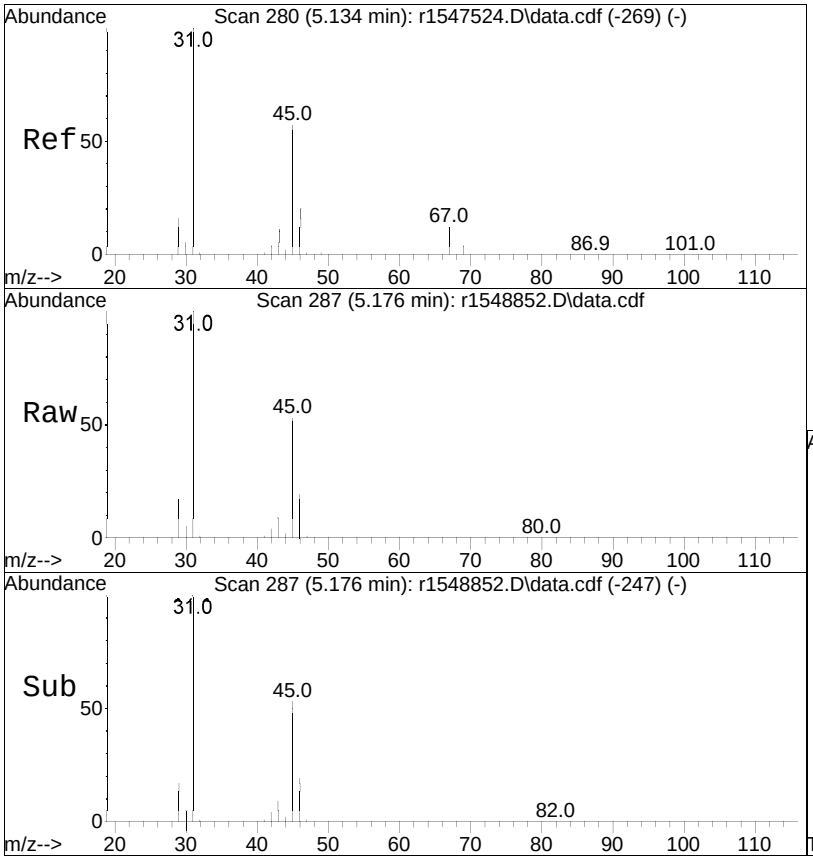


#6
chloromethane
Concen: 0.64 ppbV
RT: 4.186 min Scan# 122
Delta R.T. 0.036 min
Lab File: r1548852.D
Acq: 18 Jun 2024 9:12 PM

Tgt Ion: 50 Resp: 7600

Ion	Ratio	Lower	Upper
50	100		
52	32.1	26.0	39.0

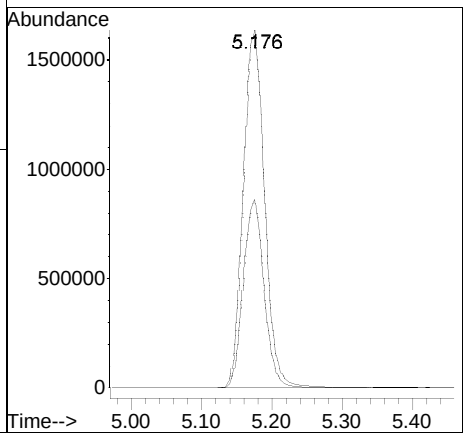


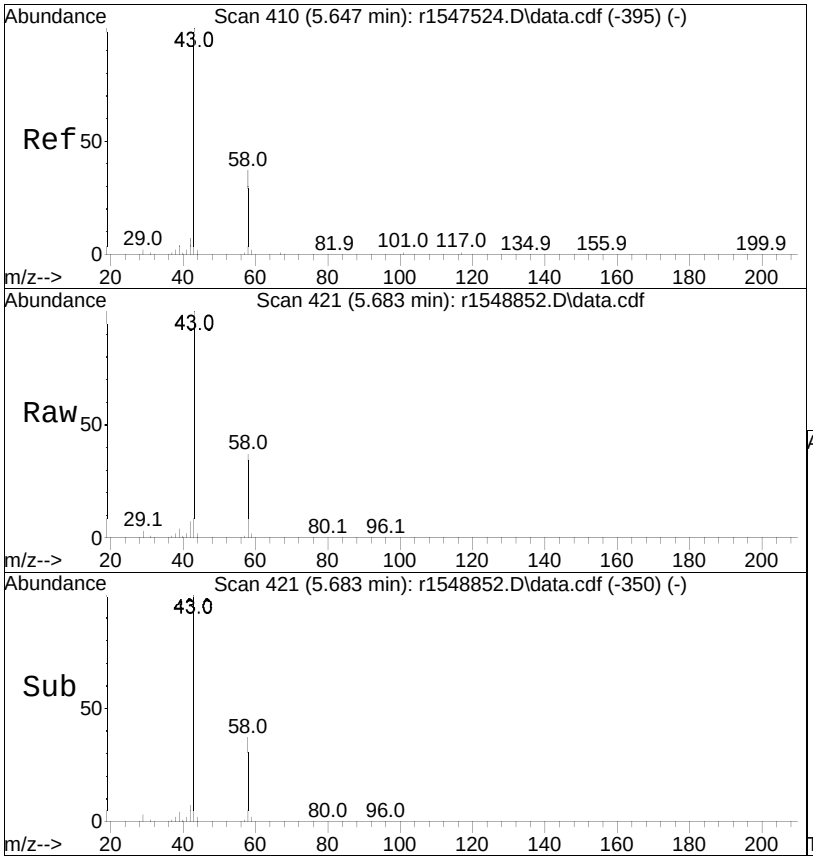


#15
ethanol
Concen: 334.89 ppbV
RT: 5.176 min Scan# 287
Delta R.T. 0.042 min
Lab File: r1548852.D
Acq: 18 Jun 2024 9:12 PM

Tgt Ion: 31 Resp: 3152404

Ion	Ratio	Lower	Upper
31	100		
45	52.8	45.7	68.5

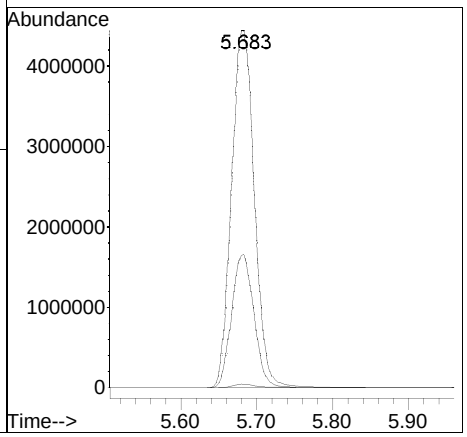


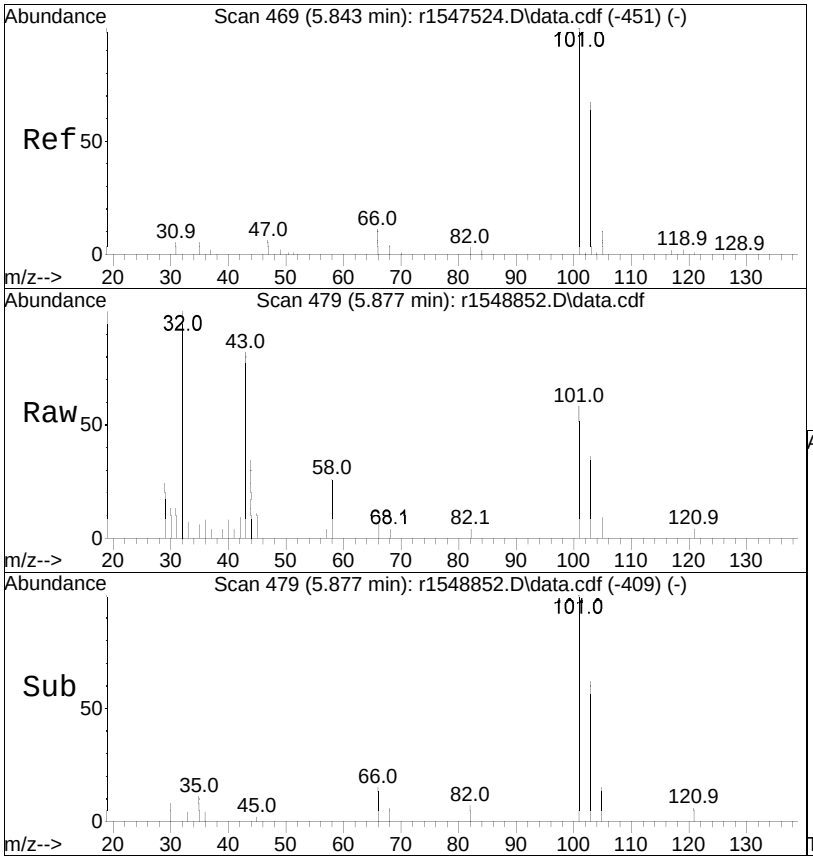


#19
acetone
Concen: 482.11 ppbV
RT: 5.683 min Scan# 421
Delta R.T. 0.037 min
Lab File: r1548852.D
Acq: 18 Jun 2024 9:12 PM

Tgt Ion: 43 Resp: 9153223

Ion	Ratio	Lower	Upper
43	100		
58	37.4	29.4	44.0
57	0.9	0.7	1.1

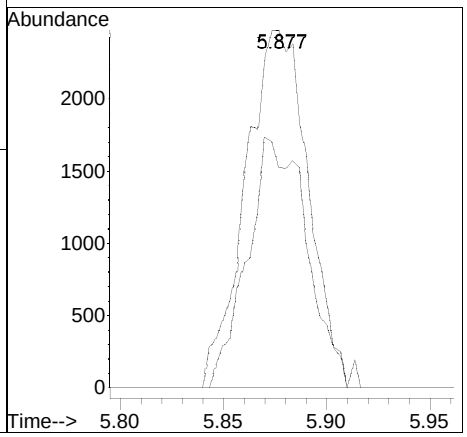


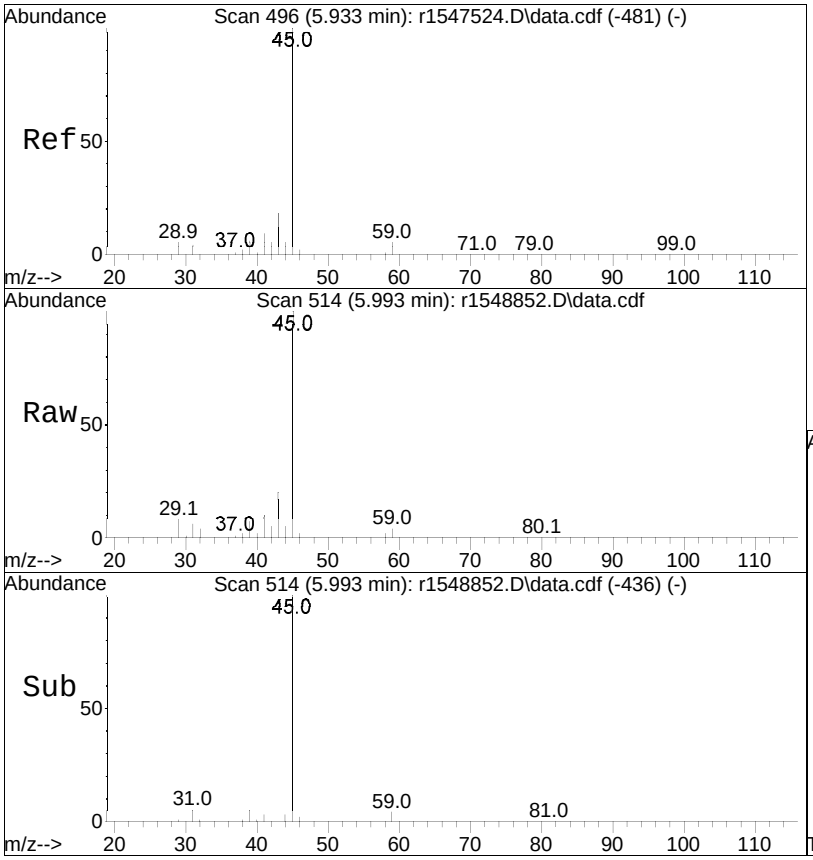


#21
trichlorofluoromethane
Concen: 0.21 ppbV
RT: 5.877 min Scan# 479
Delta R.T. 0.033 min
Lab File: r1548852.D
Acq: 18 Jun 2024 9:12 PM

Tgt Ion:101 Resp: 5237

Ion	Ratio	Lower	Upper
101	100		
103	62.0	53.4	80.0

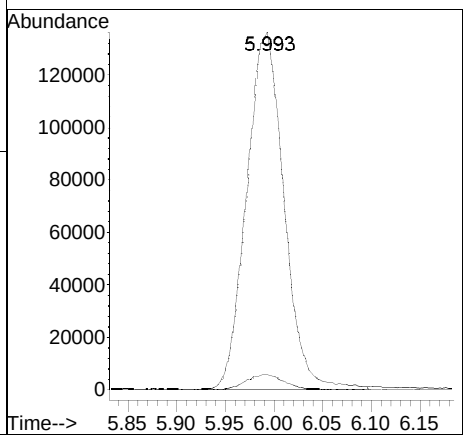


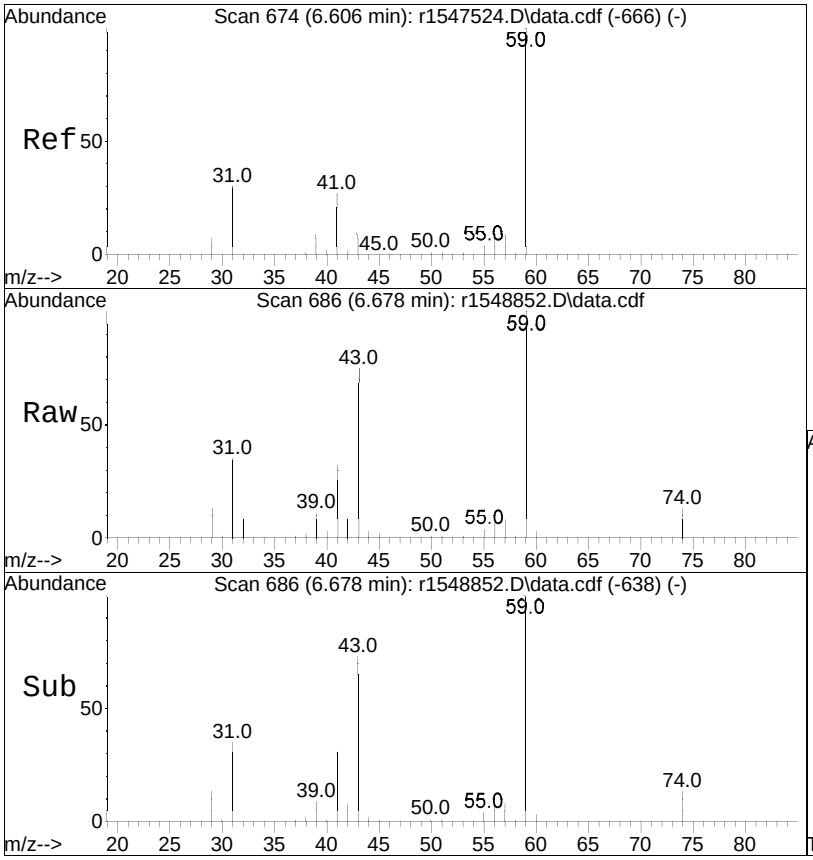


#22
isopropyl alcohol
Concen: 15.38 ppbV
RT: 5.993 min Scan# 514
Delta R.T. 0.060 min
Lab File: r1548852.D
Acq: 18 Jun 2024 9:12 PM

Tgt Ion: 45 Resp: 358402

Ion	Ratio	Lower	Upper
45	100		
59	4.4	3.8	5.6

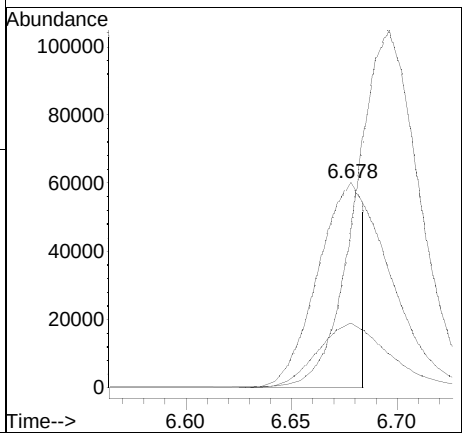


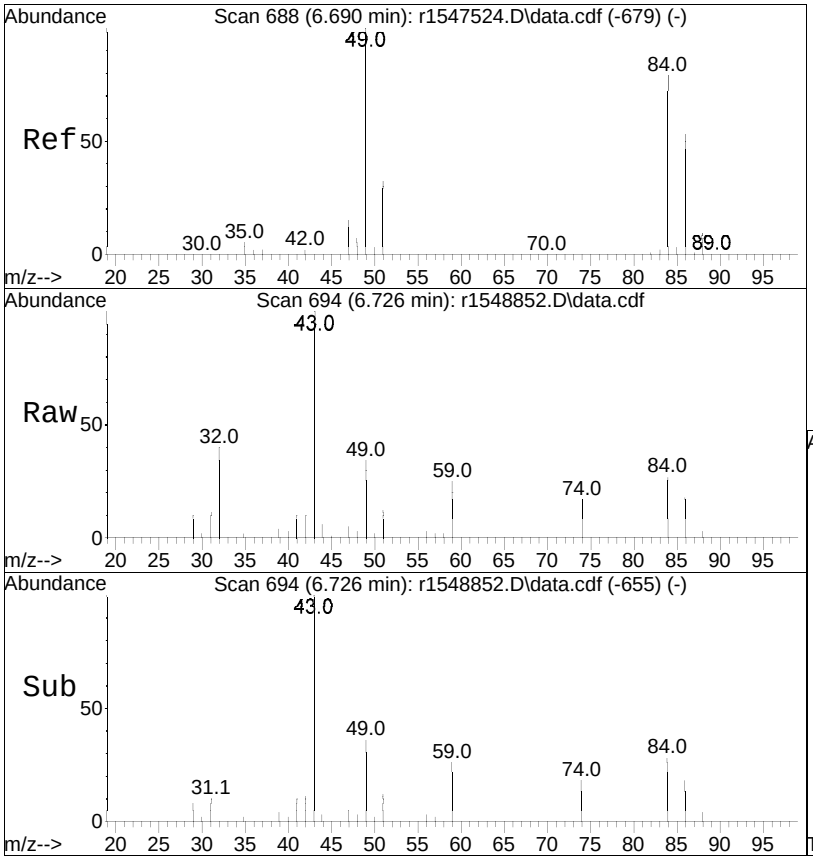


#27
tertiary butyl alcohol
Concen: 2.51 ppbV m
RT: 6.678 min Scan# 686
Delta R.T. 0.072 min
Lab File: r1548852.D
Acq: 18 Jun 2024 9:12 PM

Tgt Ion: 59 Resp: 93783

Ion	Ratio	Lower	Upper
59	100		
41	31.6	21.3	31.9
43	74.7	7.4	11.0#

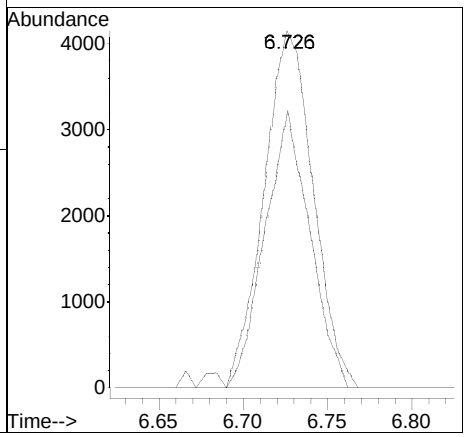


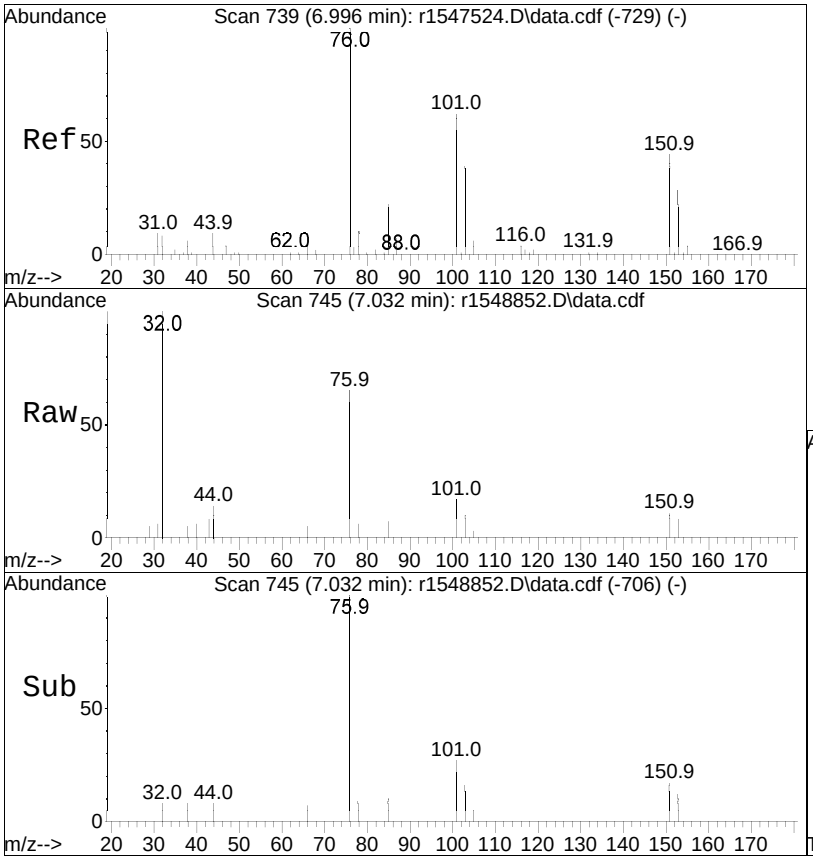


#28
methylene chloride
Concen: 0.40 ppbV
RT: 6.726 min Scan# 694
Delta R.T. 0.036 min
Lab File: r1548852.D
Acq: 18 Jun 2024 9:12 PM

Tgt Ion: 49 Resp: 8520

Ion	Ratio	Lower	Upper
49	100		
84	77.7	63.4	95.2

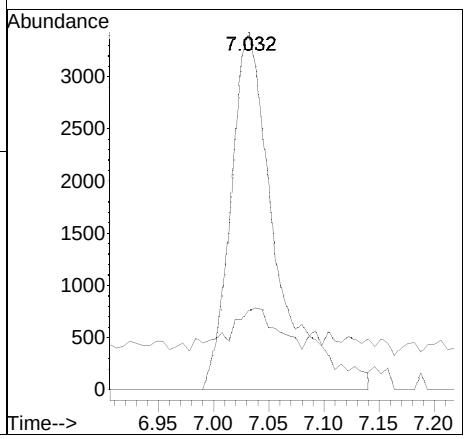


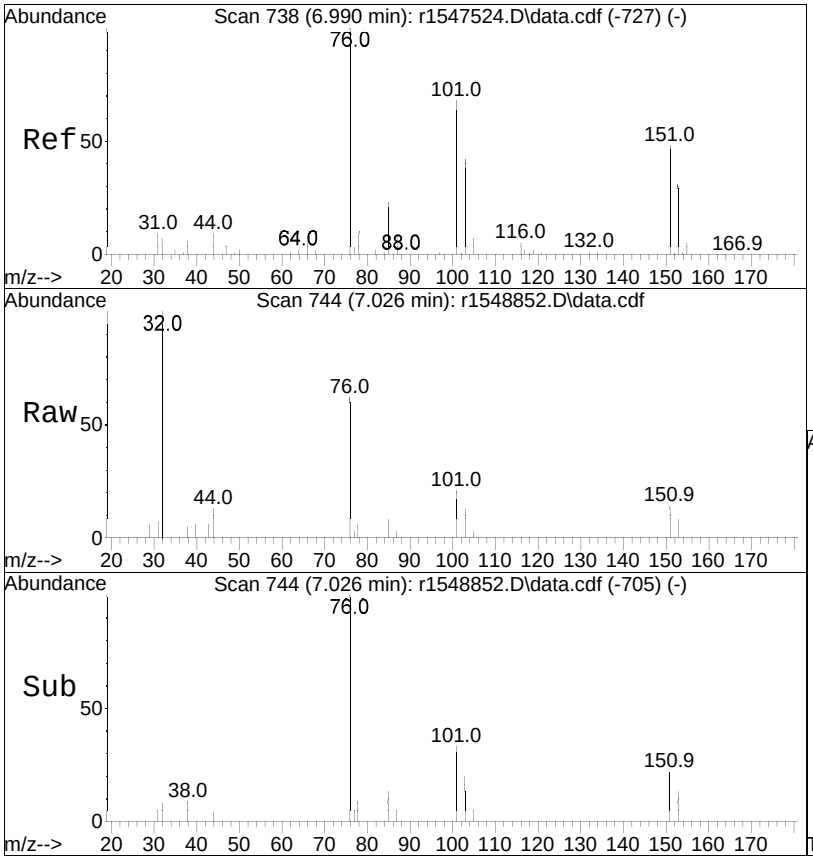


#30
carbon disulfide
Concen: 0.18 ppbV
RT: 7.032 min Scan# 745
Delta R.T. 0.036 min
Lab File: r1548852.D
Acq: 18 Jun 2024 9:12 PM

Tgt Ion: 76 Resp: 9625

Ion	Ratio	Lower	Upper
76	100		
44	22.2	7.5	11.3#

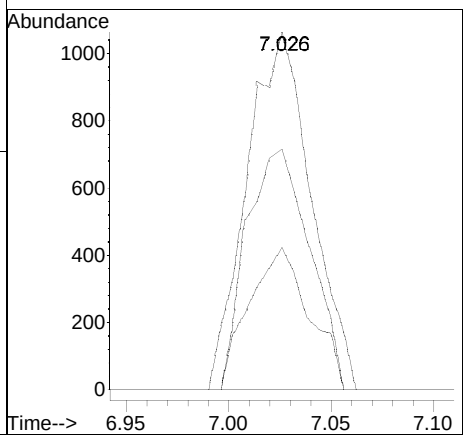


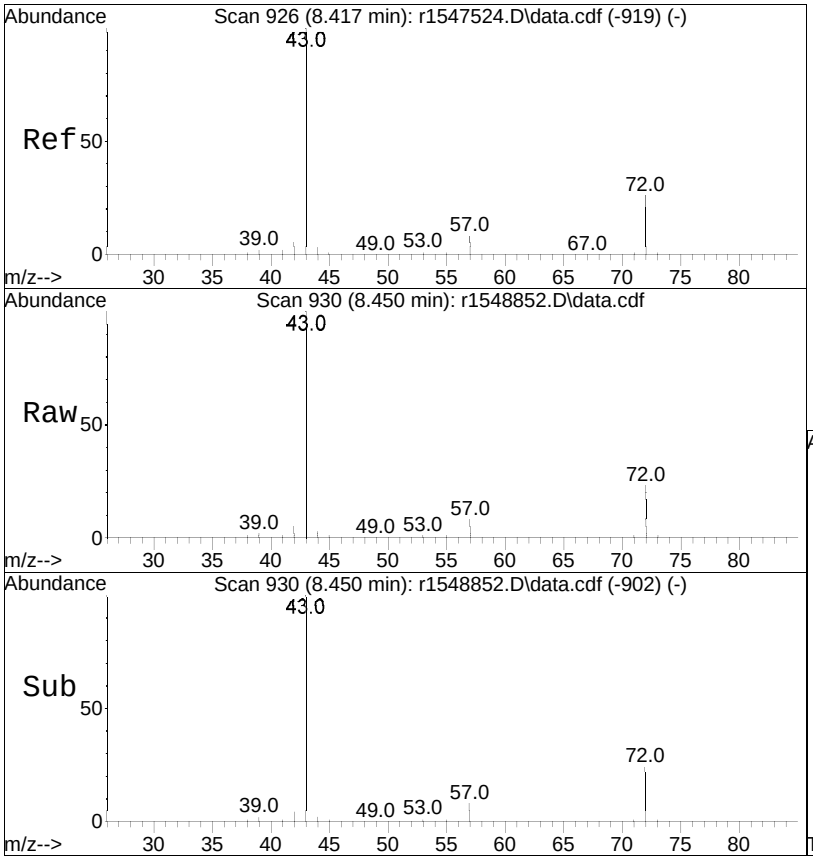


#31
Freon 113
Concen: 0.06 ppbV
RT: 7.026 min Scan# 744
Delta R.T. 0.036 min
Lab File: r1548852.D
Acq: 18 Jun 2024 9:12 PM

Tgt Ion:101 Resp: 2310

Ion	Ratio	Lower	Upper
101	100		
85	39.9	27.6	41.4
151	67.3	56.9	85.3

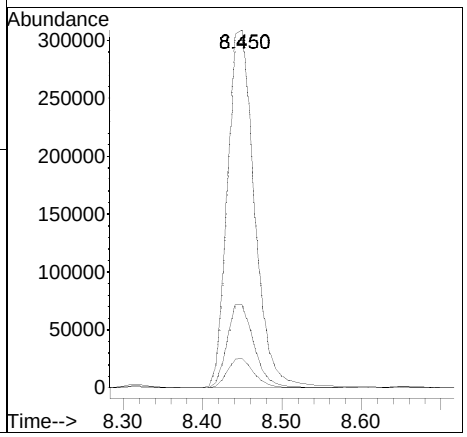


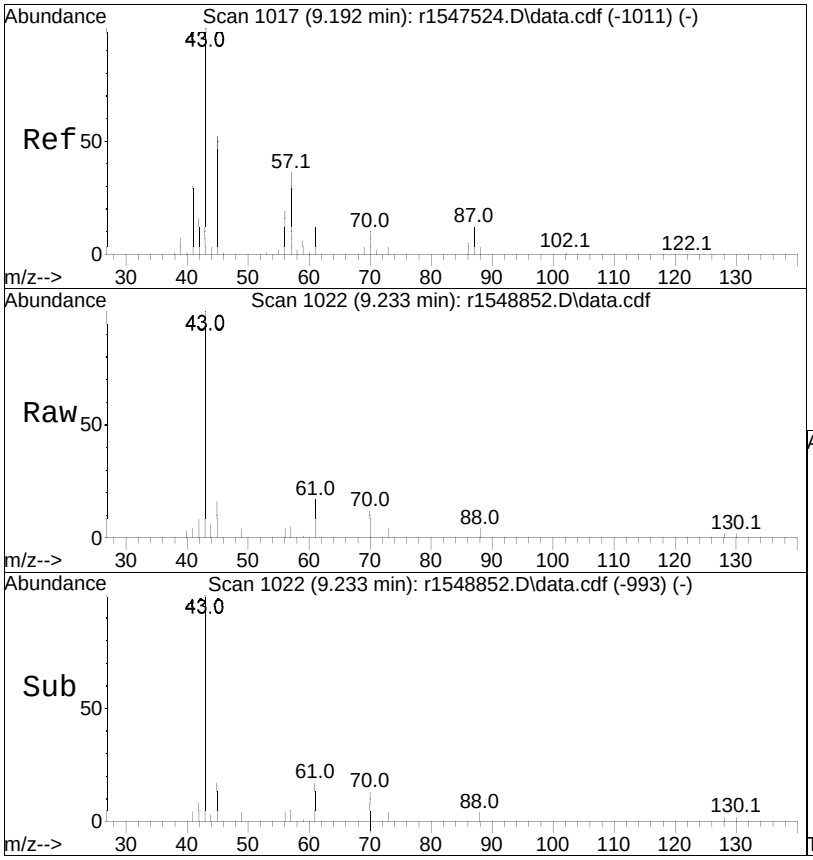


#36
2-butanone
Concen: 16.98 ppbV
RT: 8.450 min Scan# 930
Delta R.T. 0.033 min
Lab File: r1548852.D
Acq: 18 Jun 2024 9:12 PM

Tgt Ion: 43 Resp: 722169

Ion	Ratio	Lower	Upper
43	100		
72	23.4	20.9	31.3
57	8.2	6.6	10.0

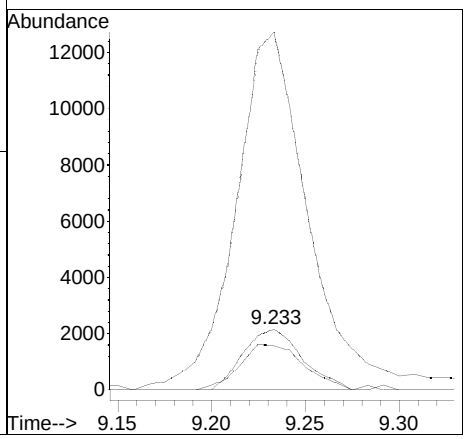


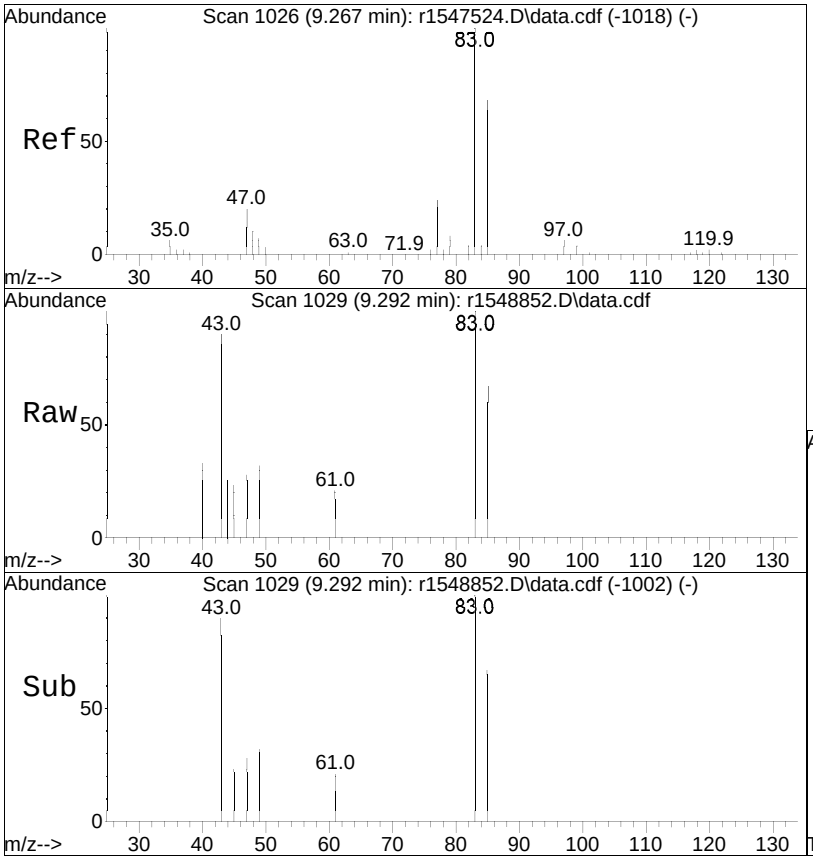


#38
Ethyl Acetate
Concen: 0.58 ppbV
RT: 9.233 min Scan# 1022
Delta R.T. 0.042 min
Lab File: r1548852.D
Acq: 18 Jun 2024 9:12 PM

Tgt Ion: 61 Resp: 4714

Ion	Ratio	Lower	Upper
61	100		
70	72.6	67.9	101.9
43	588.6	703.5	1055.3#

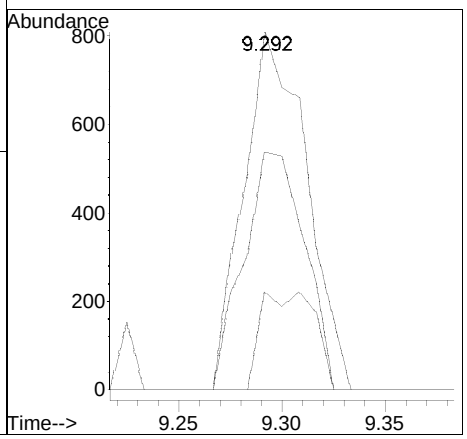


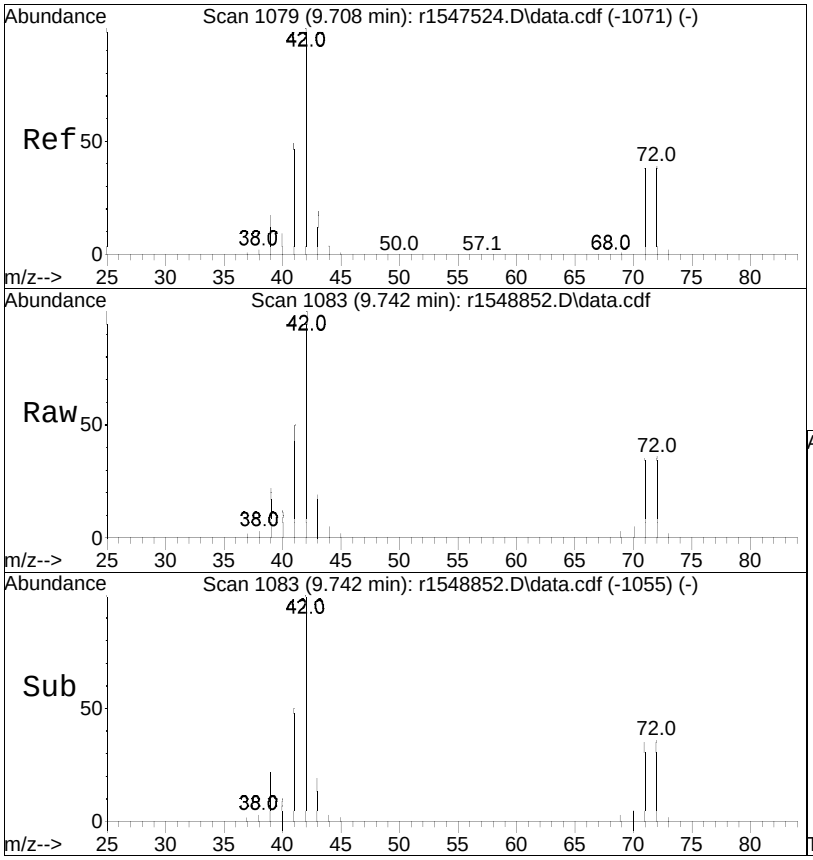


#39
chloroform
Concen: 0.05 ppbV
RT: 9.292 min Scan# 1029
Delta R.T. 0.025 min
Lab File: r1548852.D
Acq: 18 Jun 2024 9:12 PM

Tgt Ion: 83 Resp: 1702

Ion	Ratio	Lower	Upper
83	100		
85	66.5	54.3	81.5
47	27.5	16.4	24.6#

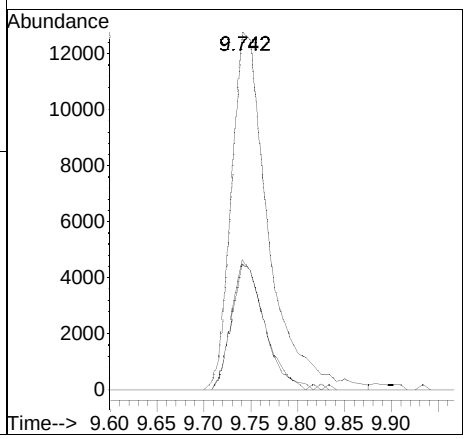


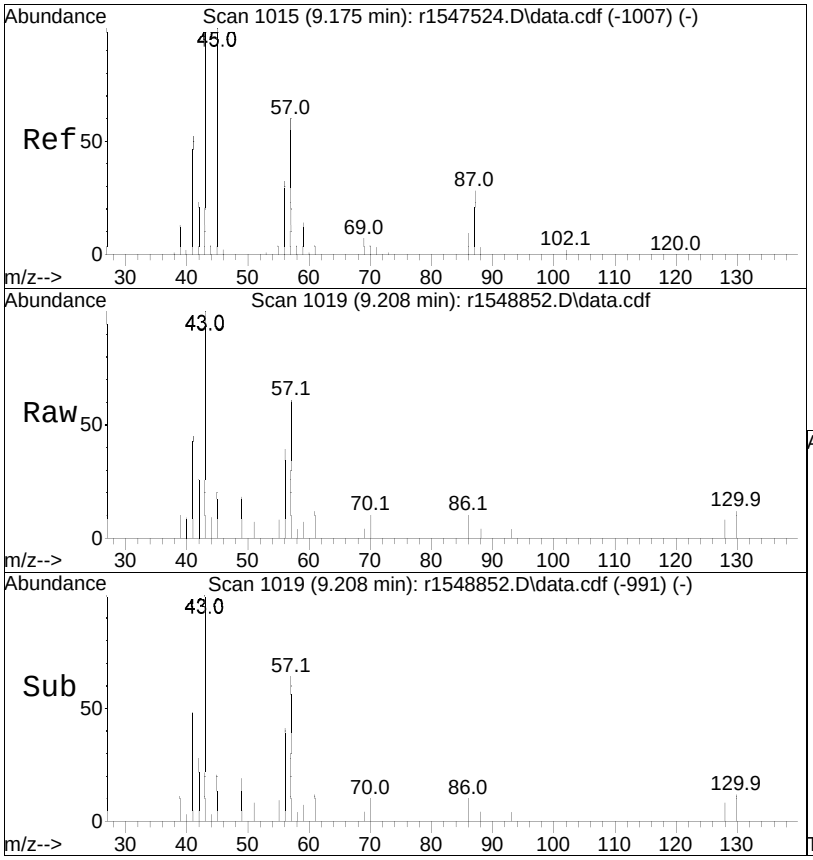


#40
Tetrahydrofuran
Concen: 1.30 ppbV
RT: 9.742 min Scan# 1083
Delta R.T. 0.033 min
Lab File: r1548852.D
Acq: 18 Jun 2024 9:12 PM

Tgt Ion: 42 Resp: 34839

Ion	Ratio	Lower	Upper
42	100		
71	35.3	30.1	45.1
72	36.4	31.4	47.2

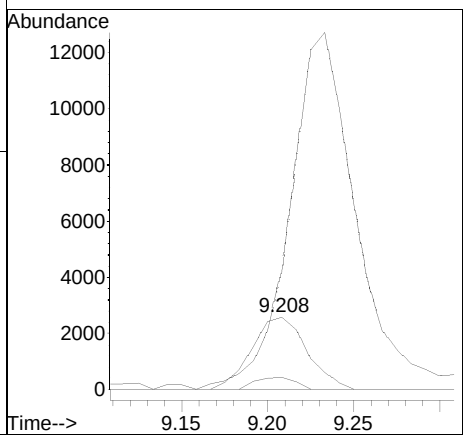


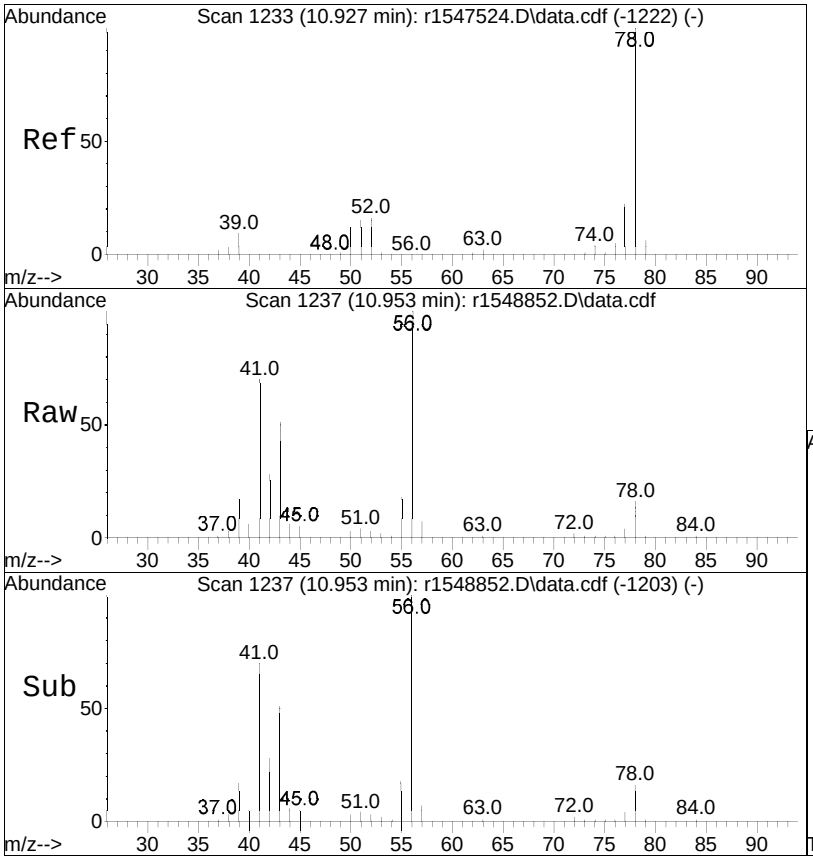


#44
hexane
Concen: 0.17 ppbV
RT: 9.208 min Scan# 1019
Delta R.T. 0.033 min
Lab File: r1548852.D
Acq: 18 Jun 2024 9:12 PM

Tgt Ion: 57 Resp: 5808

Ion	Ratio	Lower	Upper
57	100		
43	162.9	124.6	186.8
86	15.7	11.5	17.3

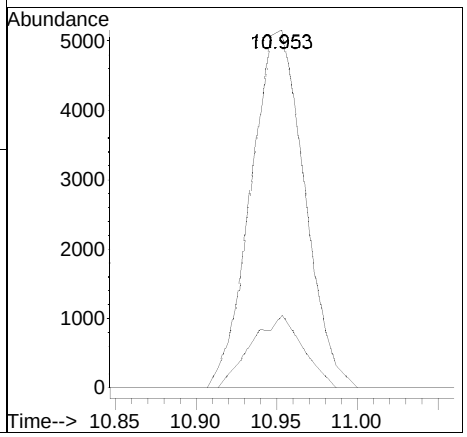


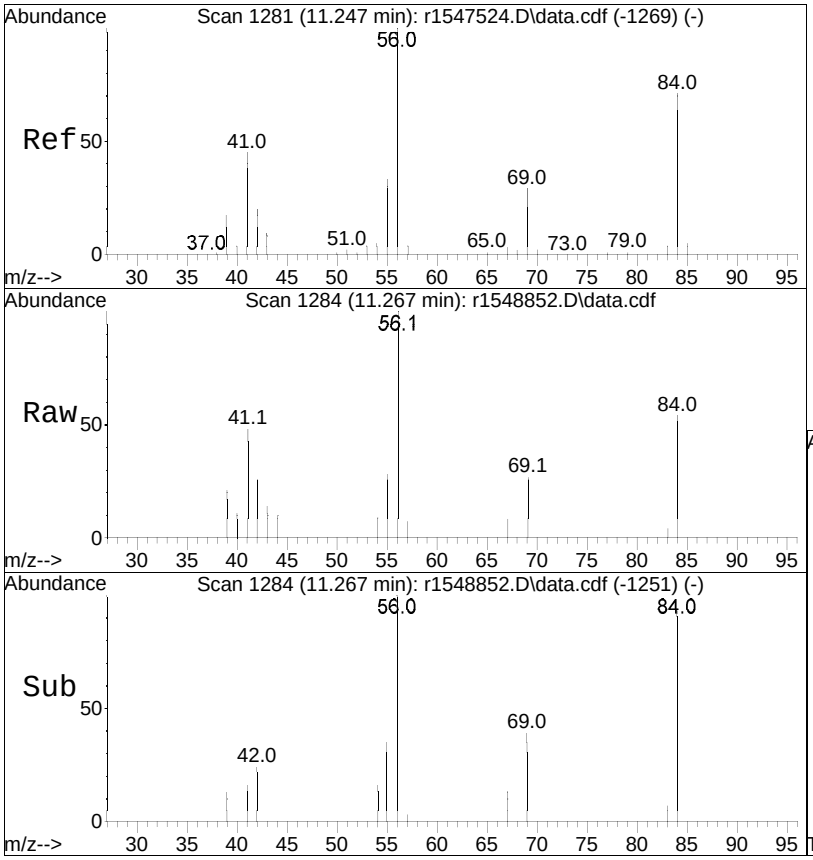


#50
benzene
Concen: 0.20 ppbV
RT: 10.953 min Scan# 1237
Delta R.T. 0.027 min
Lab File: r1548852.D
Acq: 18 Jun 2024 9:12 PM

Tgt Ion: 78 Resp: 11811

Ion	Ratio	Lower	Upper
78	100		
52	20.4	13.0	19.4#

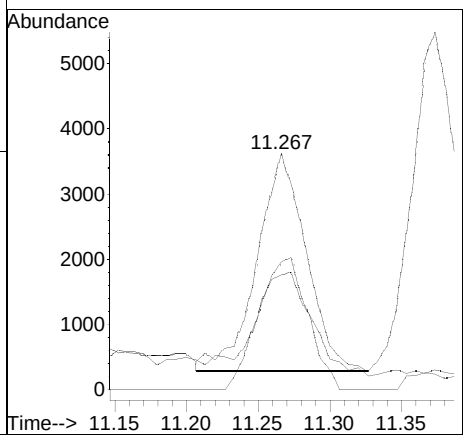


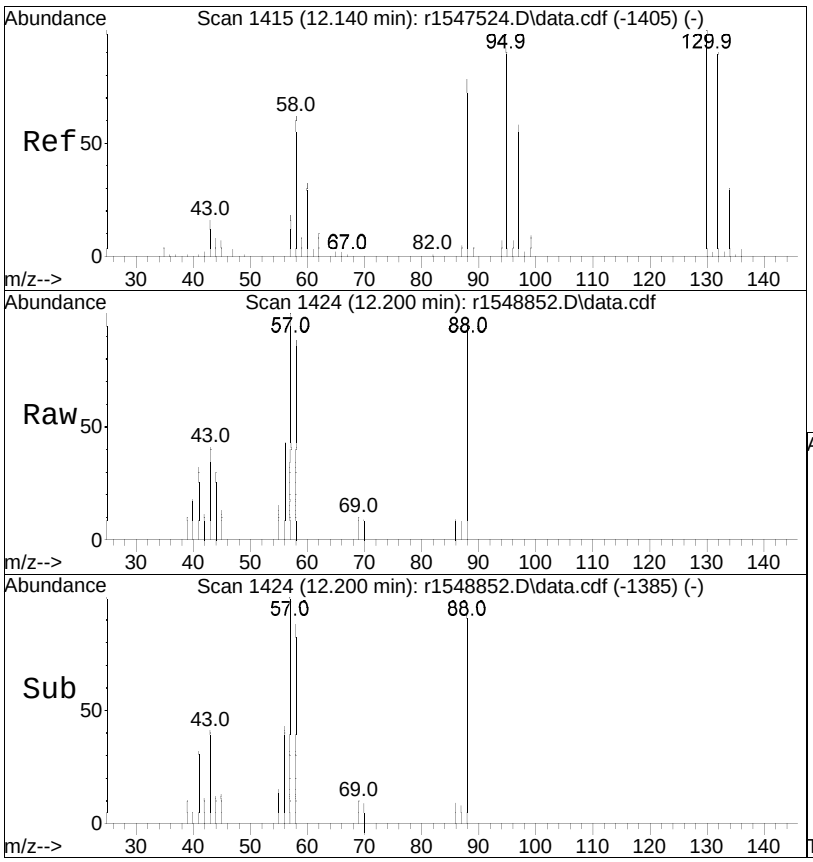


#53
cyclohexane
Concen: 0.22 ppbV
RT: 11.267 min Scan# 1284
Delta R.T. 0.020 min
Lab File: r1548852.D
Acq: 18 Jun 2024 9:12 PM

Tgt Ion: 56 Resp: 7976

Ion	Ratio	Lower	Upper
56	100		
84	54.1	57.2	85.8#
41	48.5	35.9	53.9

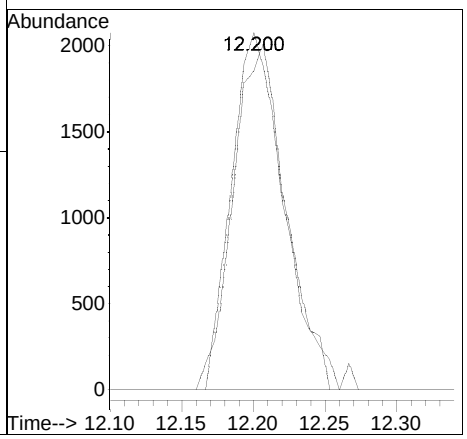


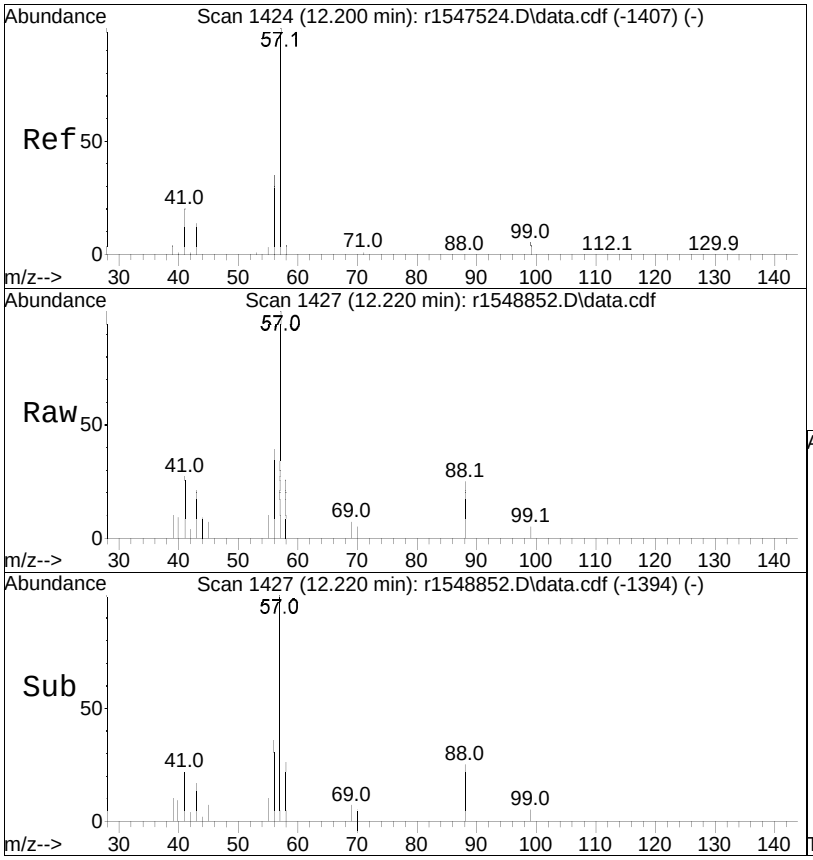


#58
1,4-dioxane
Concen: 0.39 ppbV
RT: 12.200 min Scan# 1424
Delta R.T. 0.060 min
Lab File: r1548852.D
Acq: 18 Jun 2024 9:12 PM

Tgt Ion: 88 Resp: 5327

Ion	Ratio	Lower	Upper
88	100		
58	89.1	63.4	95.0

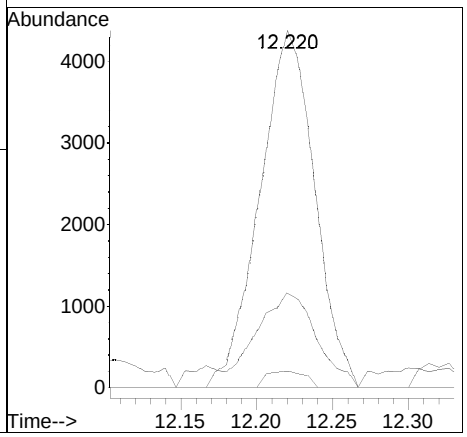


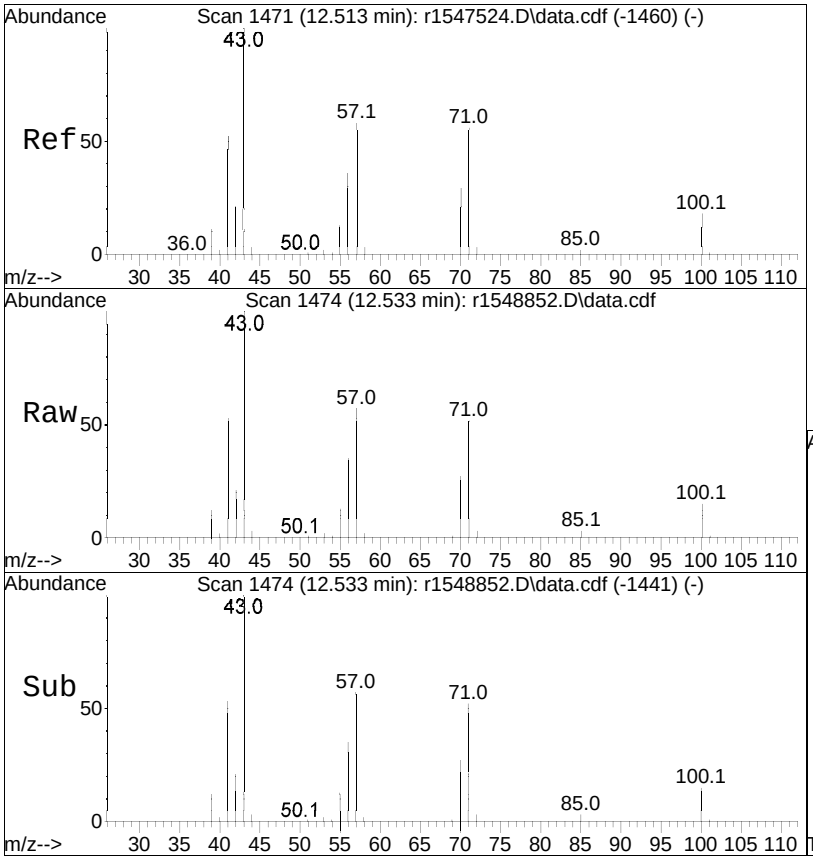


#60
2,2,4-trimethylpentane
Concen: 0.10 ppbV
RT: 12.220 min Scan# 1427
Delta R.T. 0.020 min
Lab File: r1548852.D
Acq: 18 Jun 2024 9:12 PM

Tgt Ion: 57 Resp: 10950

Ion	Ratio	Lower	Upper
57	100		
99	4.8	4.0	6.0
41	26.5	16.1	24.1#

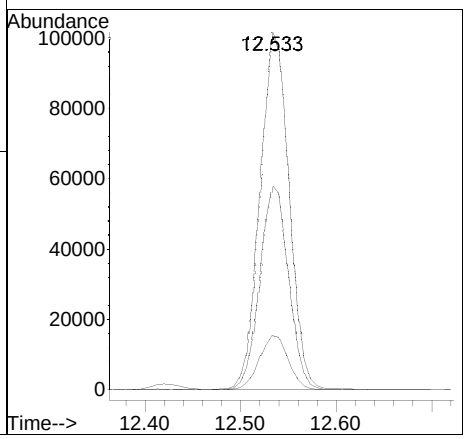


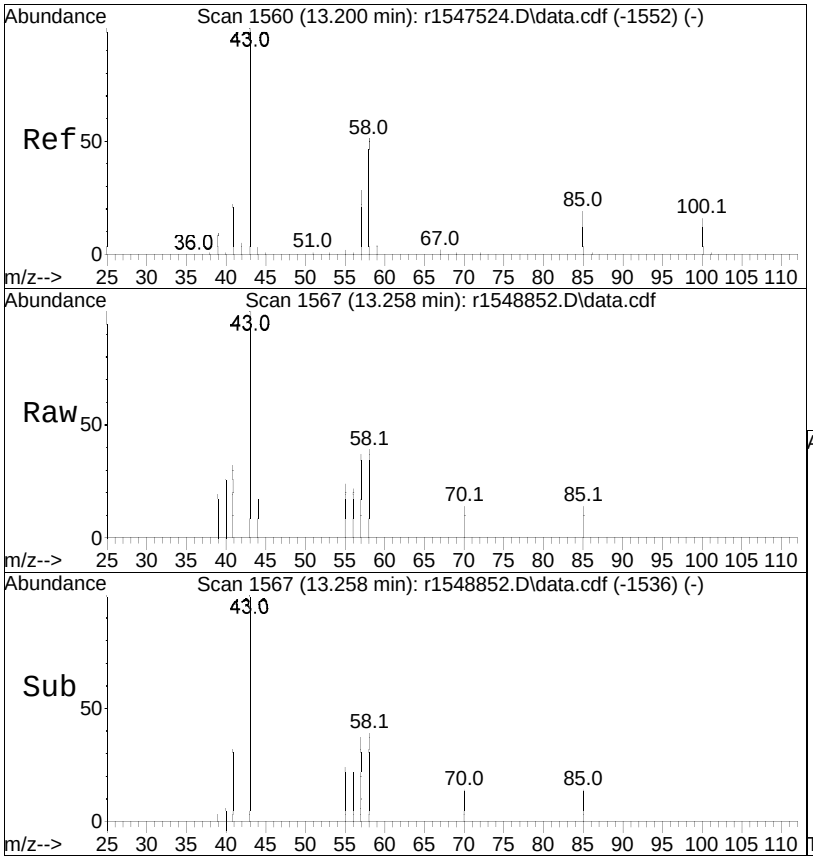


#62
heptane
Concen: 5.74 ppbV
RT: 12.533 min Scan# 1474
Delta R.T. 0.020 min
Lab File: r1548852.D
Acq: 18 Jun 2024 9:12 PM

Tgt Ion: 43 Resp: 214028

Ion	Ratio	Lower	Upper
43	100		
57	56.9	46.6	70.0
100	15.1	14.6	22.0

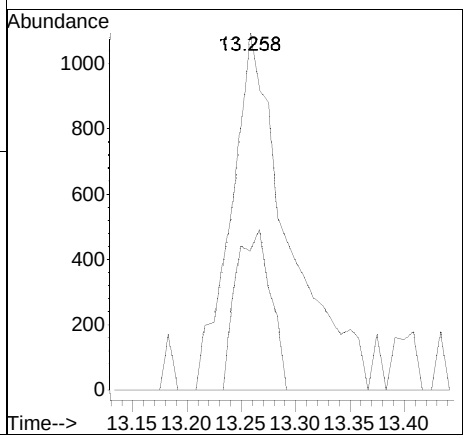


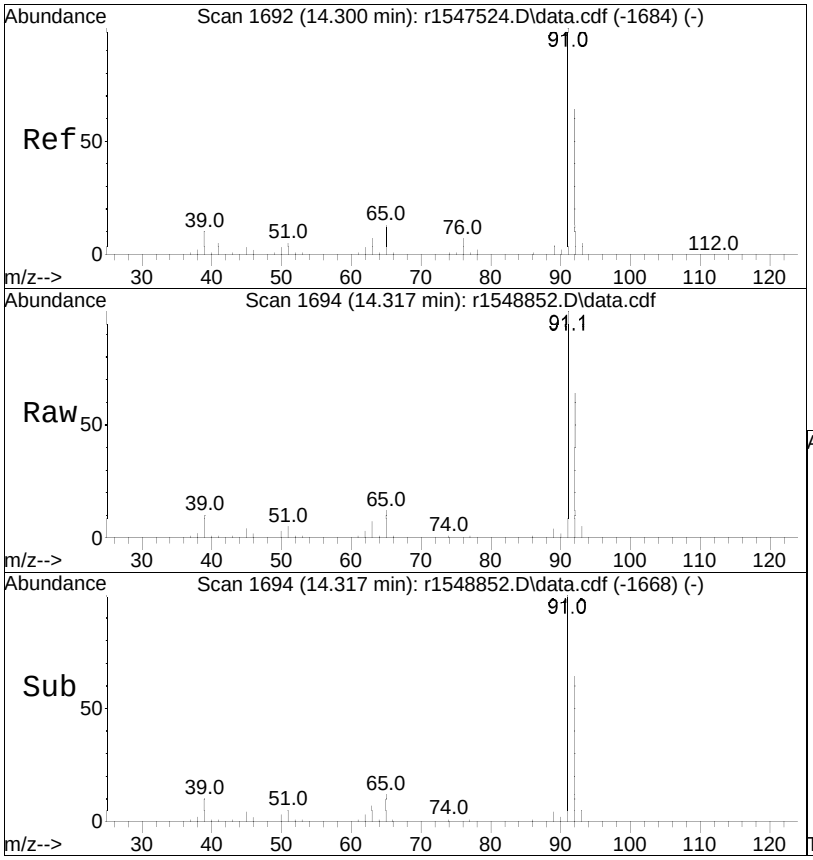


#64
4-methyl-2-pentanone
Concen: 0.09 ppbV
RT: 13.258 min Scan# 1567
Delta R.T. 0.058 min
Lab File: r1548852.D
Acq: 18 Jun 2024 9:12 PM

Tgt Ion: 43 Resp: 4009

Ion	Ratio	Lower	Upper
43	100		
58	38.8	41.0	61.4#
100	0.0	13.0	19.6#

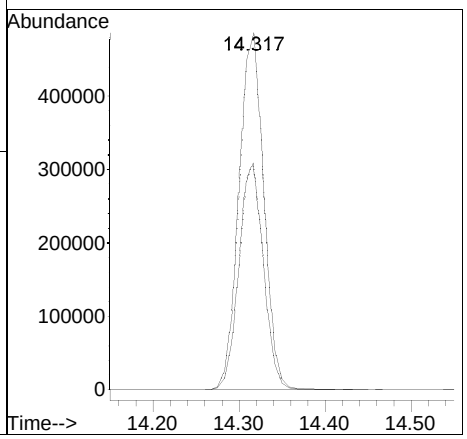


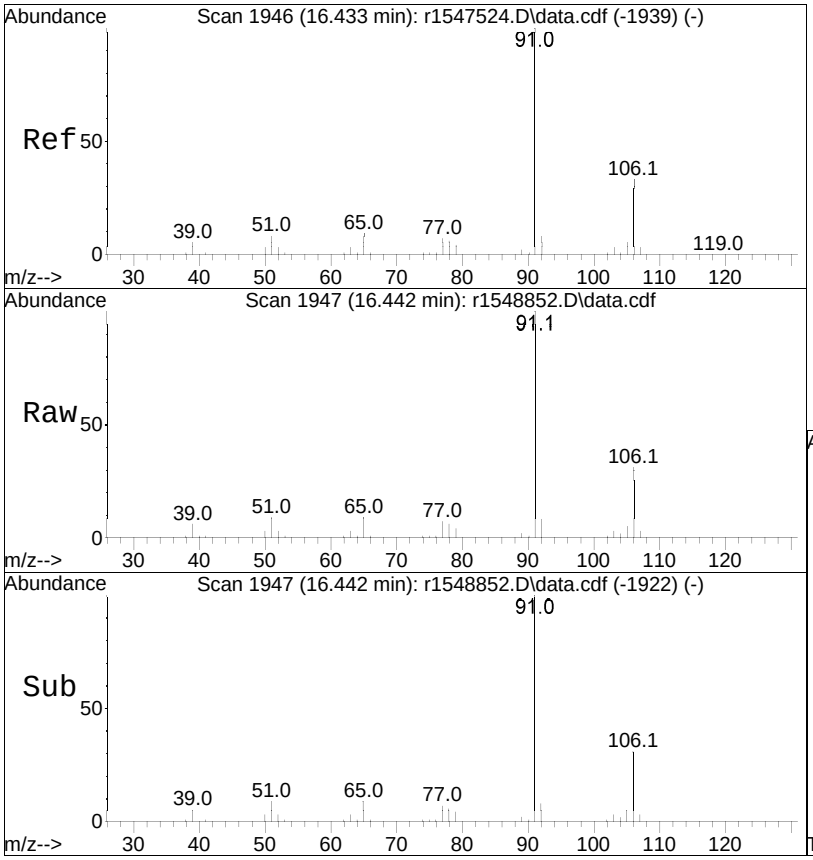


#68
toluene
Concen: 11.18 ppbV
RT: 14.317 min Scan# 1694
Delta R.T. 0.017 min
Lab File: r1548852.D
Acq: 18 Jun 2024 9:12 PM

Tgt Ion: 91 Resp: 969703

Ion	Ratio	Lower	Upper
91	100		
92	63.7	51.6	77.4

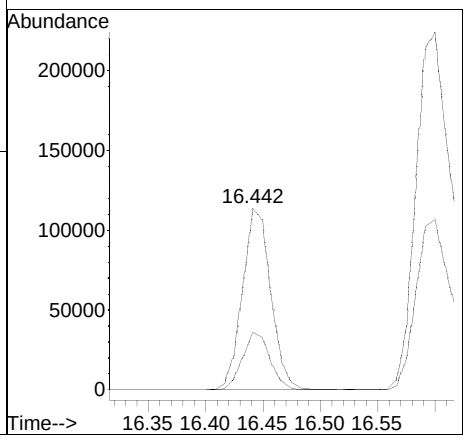


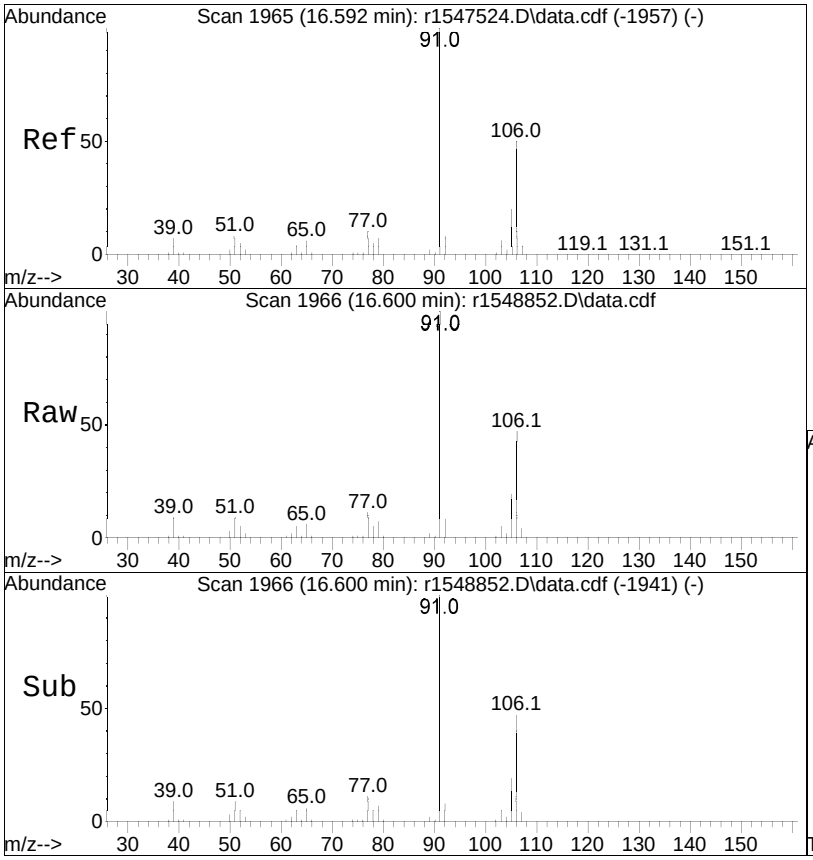


#81
ethylbenzene
Concen: 1.77 ppbV
RT: 16.442 min Scan# 1947
Delta R.T. 0.008 min
Lab File: r1548852.D
Acq: 18 Jun 2024 9:12 PM

Tgt Ion: 91 Resp: 196922

Ion	Ratio	Lower	Upper
91	100		
106	31.2	26.1	39.1

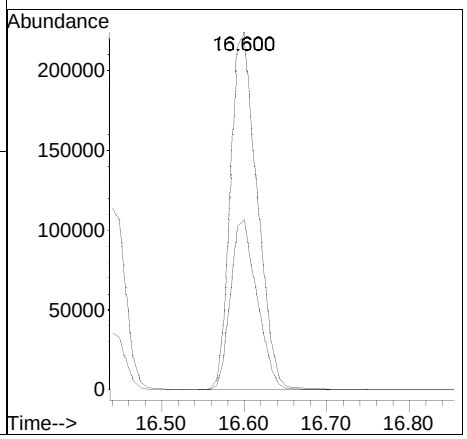


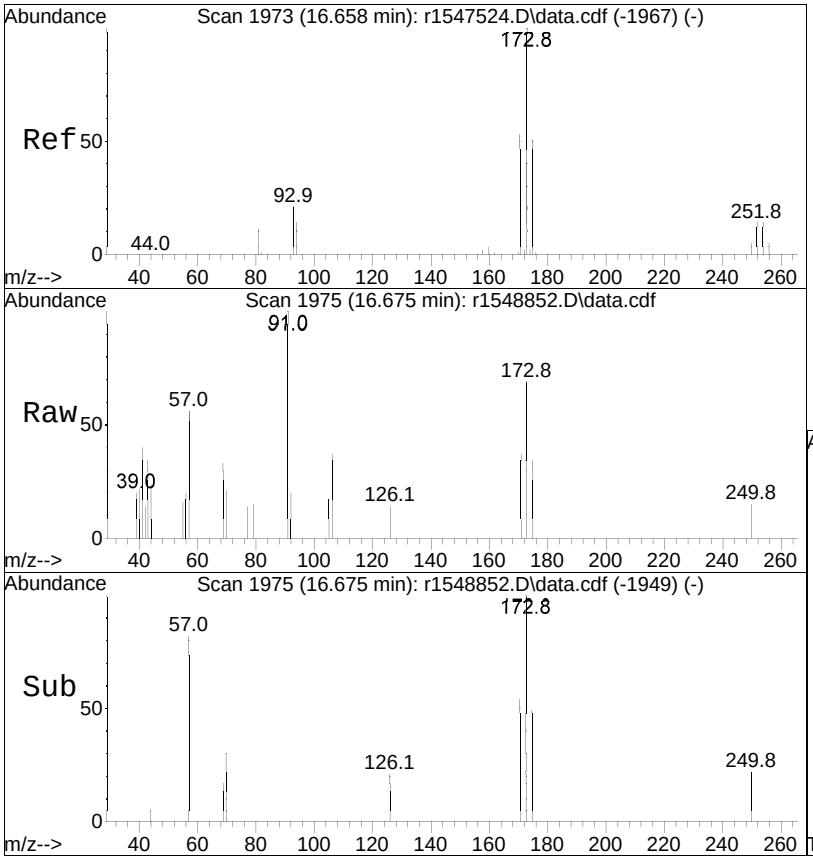


#83
m+p-xylene
Concen: 5.76 ppbV
RT: 16.600 min Scan# 1966
Delta R.T. 0.008 min
Lab File: r1548852.D
Acq: 18 Jun 2024 9:12 PM

Tgt Ion: 91 Resp: 501145

Ion	Ratio	Lower	Upper
91	100		
106	47.5	40.1	60.1

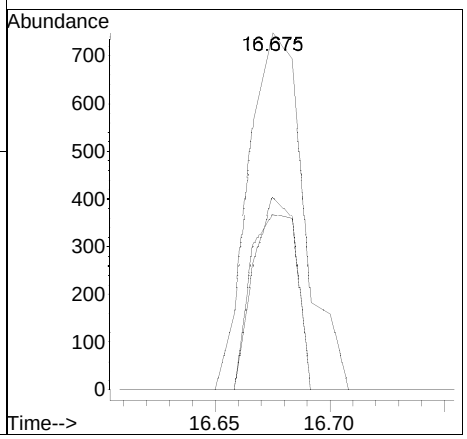


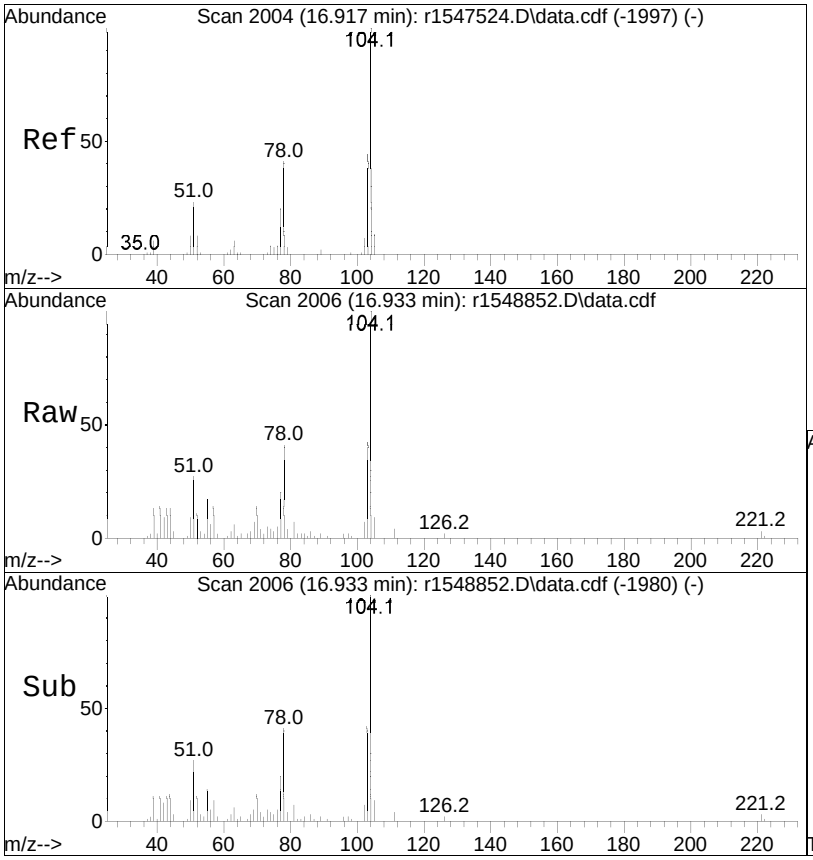


#84
bromoform
Concen: 0.04 ppbV
RT: 16.675 min Scan# 1975
Delta R.T. 0.017 min
Lab File: r1548852.D
Acq: 18 Jun 2024 9:12 PM

Tgt Ion:173 Resp: 1257

Ion	Ratio	Lower	Upper
173	100		
175	49.3	40.6	60.8
171	54.0	42.4	63.6

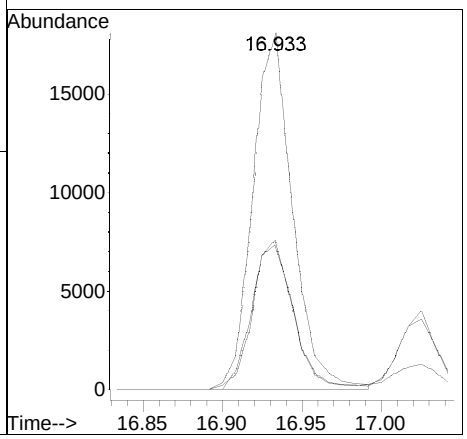


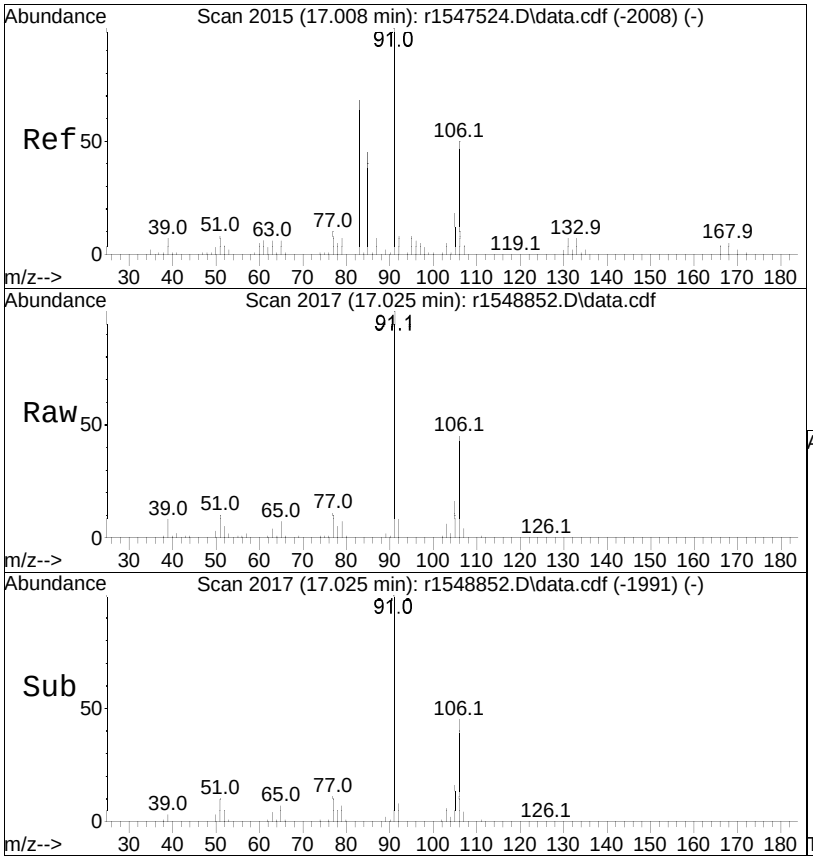


#85
styrene
Concen: 0.46 ppbV
RT: 16.933 min Scan# 2006
Delta R.T. 0.017 min
Lab File: r1548852.D
Acq: 18 Jun 2024 9:12 PM

Tgt Ion:104 Resp: 31286

Ion	Ratio	Lower	Upper
104	100		
103	42.1	35.2	52.8
78	40.6	32.6	48.8

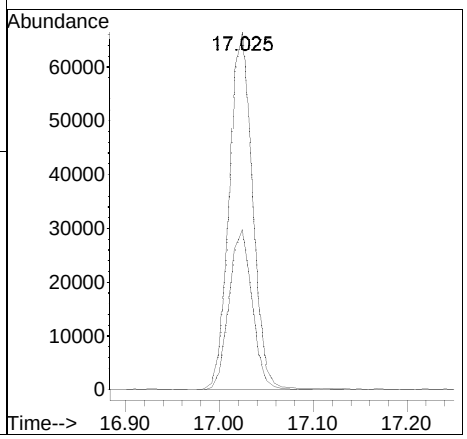


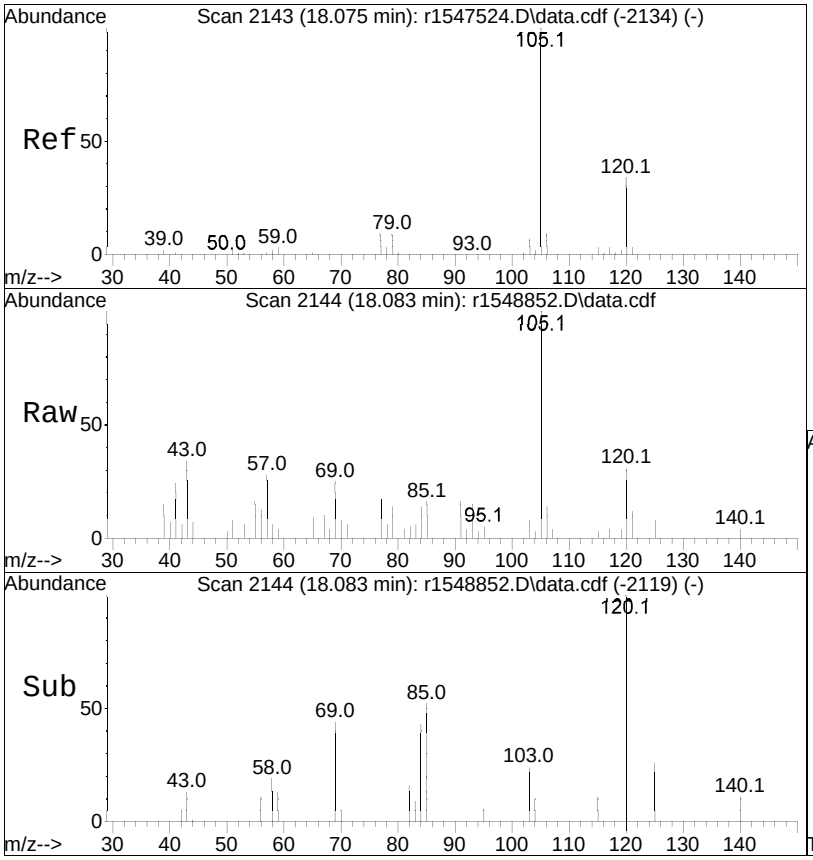


#87
o-xylene
Concen: 1.32 ppbV
RT: 17.025 min Scan# 2017
Delta R.T. 0.017 min
Lab File: r1548852.D
Acq: 18 Jun 2024 9:12 PM

Tgt Ion: 91 Resp: 114519

Ion	Ratio	Lower	Upper
91	100		
106	44.8	39.6	59.4

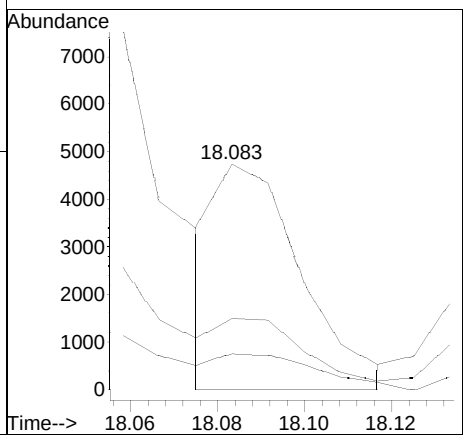


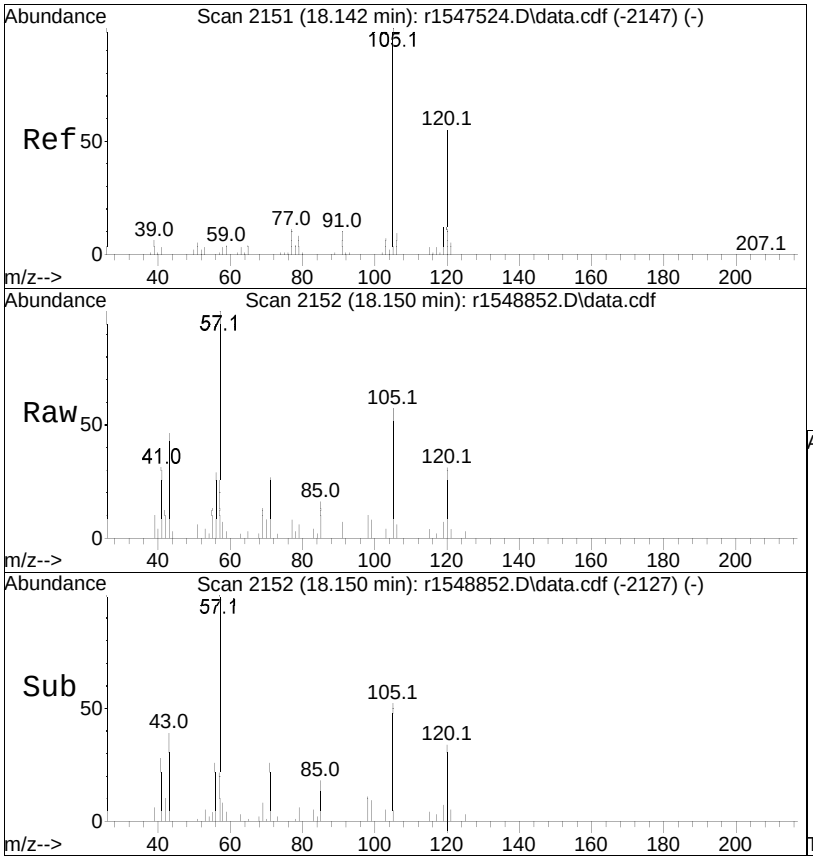


#96
4-ethyl toluene
Concen: 0.06 ppbV m
RT: 18.083 min Scan# 2144
Delta R.T. 0.008 min
Lab File: r1548852.D
Acq: 18 Jun 2024 9:12 PM

Tgt Ion:105 Resp: 6397

Ion	Ratio	Lower	Upper
105	100		
120	31.3	27.2	40.8
91	16.2	7.9	11.9#

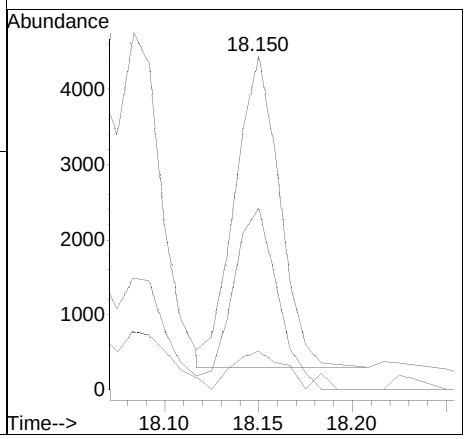


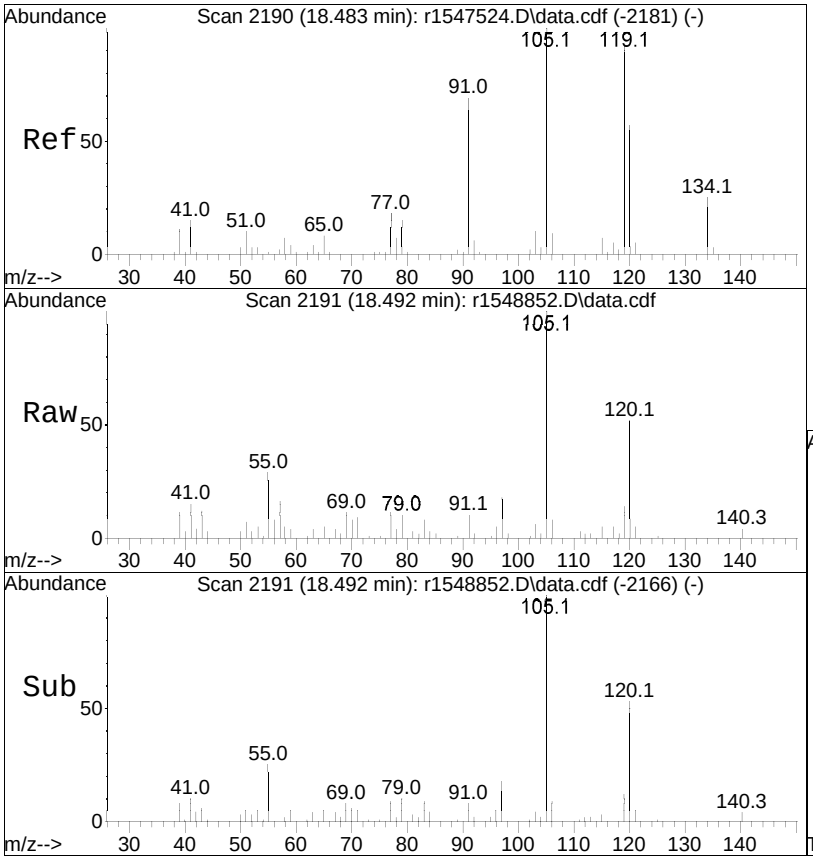


#97
1,3,5-trimethylbenzene
Concen: 0.06 ppbV
RT: 18.150 min Scan# 2152
Delta R.T. 0.008 min
Lab File: r1548852.D
Acq: 18 Jun 2024 9:12 PM

Tgt Ion:105 Resp: 6856

Ion	Ratio	Lower	Upper
105	100		
120	54.5	44.2	66.2
91	11.8	8.0	12.0

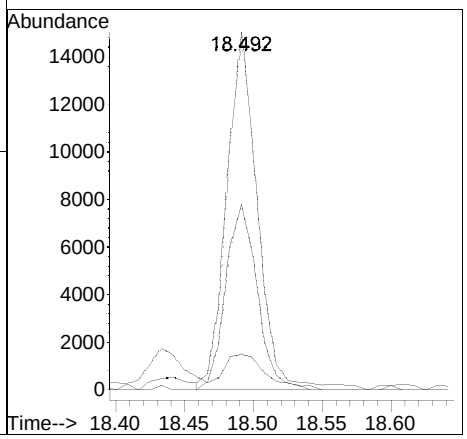


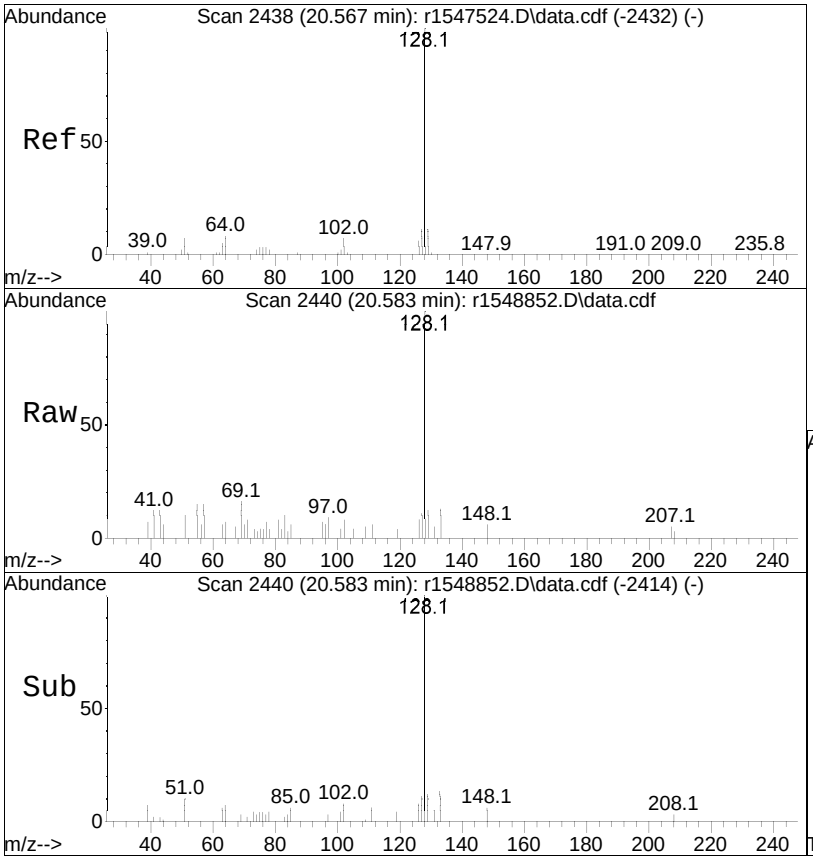


#99
1,2,4-trimethylbenzene
Concen: 0.25 ppbV
RT: 18.492 min Scan# 2191
Delta R.T. 0.008 min
Lab File: r1548852.D
Acq: 18 Jun 2024 9:12 PM

Tgt Ion:105 Resp: 23210

Ion	Ratio	Lower	Upper
105	100		
120	51.9	45.4	68.2
91	10.2	55.0	82.6#

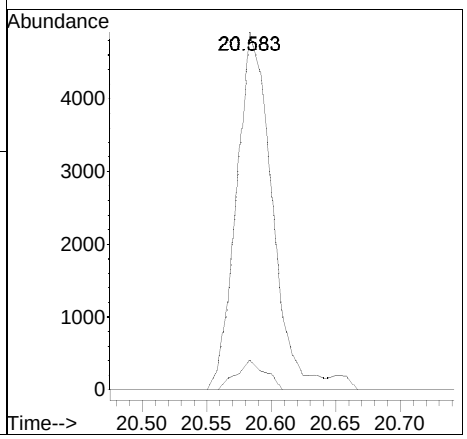




#116
naphthalene
Concen: 0.08 ppbV
RT: 20.583 min Scan# 2440
Delta R.T. 0.017 min
Lab File: r1548852.D
Acq: 18 Jun 2024 9:12 PM

Tgt Ion:128 Resp: 9509

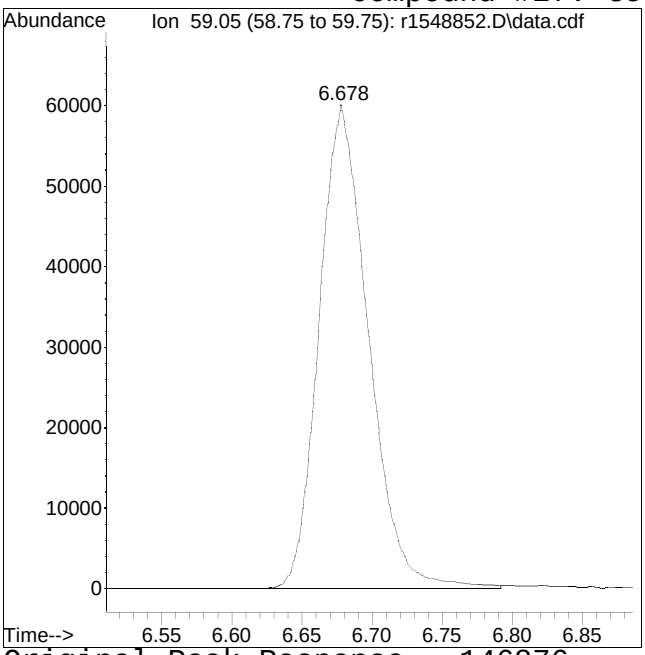
Ion	Ratio	Lower	Upper
128	100		
102	8.3	5.4	8.0#



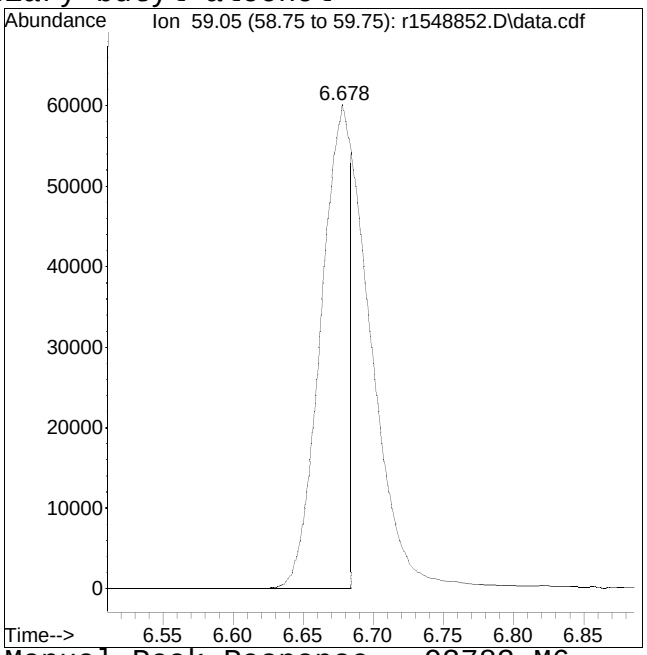
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1548852.D Operator : AIRLAB15:JMB
Date Inj'd : 6/18/2020 0:9: 2 Instrument :
Sample : L2432670-04,3,250,250 Quant Date : 6/19/2024 7:06 am

Compound #27: tertiary butyl alcohol



Original Peak Response = 146876



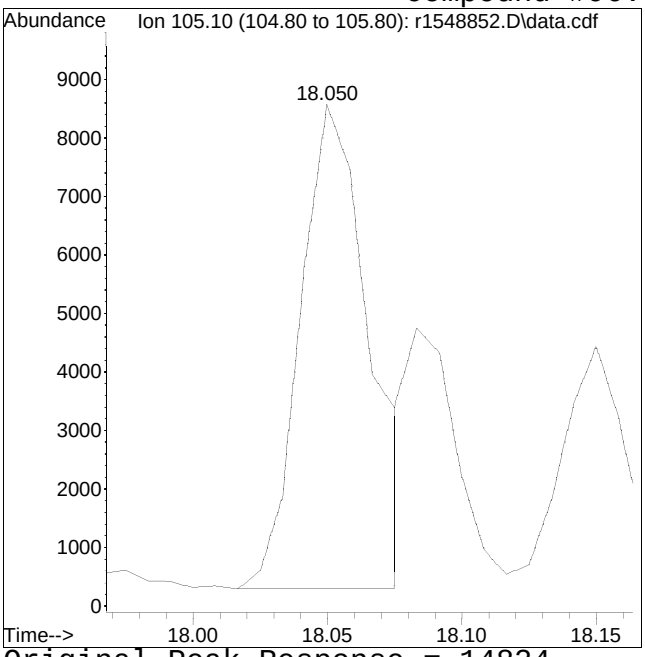
Manual Peak Response = 93783 M6

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

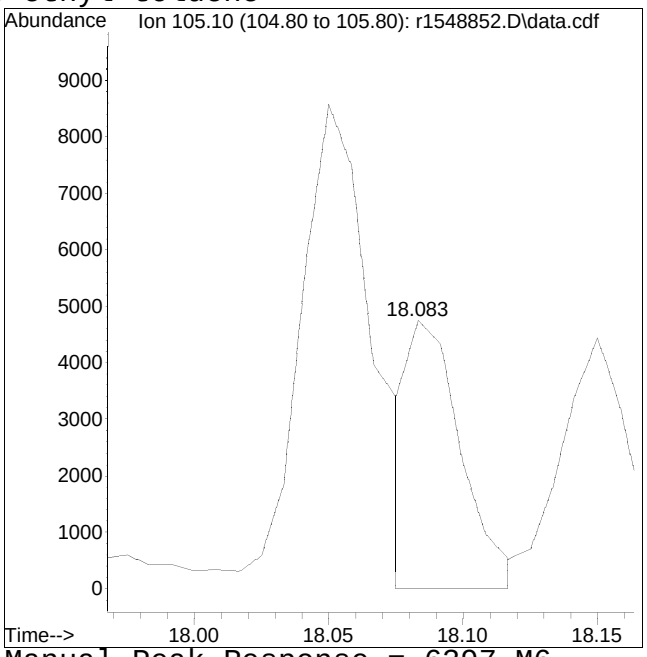
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1548852.D Operator : AIRLAB15:JMB
Date Inj'd : 6/18/2020 0:9: 2 Instrument :
Sample : L2432670-04,3,250,250 Quant Date : 6/19/2024 7:06 am

Compound #96: 4-ethyl toluene



Original Peak Response = 14824



Manual Peak Response = 6397 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548853.D
Acq On : 18 Jun 2024 9:50 PM
Operator : AIRLAB15:JMB
Sample : L2432670-05,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:06:58 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618T\r1548845.D
Sub List : TO15-NY+NAPH-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.142	49	286266	10.000	ppbV	0.02
Standard Area = 309658			Recovery =	92.45%		
43) 1,4-difluorobenzene	11.373	114	754446	10.000	ppbV	0.03
Standard Area = 833704			Recovery =	90.49%		
67) chlorobenzene-D5	16.058	54	134760	10.000	ppbV	0.02
Standard Area = 146665			Recovery =	91.88%		
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.018	85	14081	0.455	ppbV	100
6) chloromethane	4.186	50	7425	0.630	ppbV	98
7) Freon-114	4.288		0	N.D.		
10) 1,3-butadiene	4.558		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	5.038		0	N.D.		
15) ethanol	5.170	31	3228045	344.191	ppbV	93
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.680	43	10032772	530.388	ppbV	99
21) trichlorofluoromethane	5.870	101	5179	0.205	ppbV	91
22) isopropyl alcohol	5.990	45	296931	12.793	ppbV	100
27) tertiary butyl alcohol	6.678	59	72937M6	1.959	ppbV	
28) methylene chloride	6.726	49	5378	0.253	ppbV	92
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	7.032	76	7237	0.134	ppbV #	58
31) Freon 113	7.014	101	2348	0.062	ppbV	99
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	8.067		0	N.D.		
36) 2-butanone	8.450	43	523737	12.363	ppbV	97
38) Ethyl Acetate	9.233	61	3476	0.427	ppbV #	42
39) chloroform	9.300	83	1558	0.047	ppbV #	91
40) Tetrahydrofuran	9.750	42	23544	0.879	ppbV	95
42) 1,2-dichloroethane	10.133	62	770	0.033	ppbV #	60
44) hexane	9.208	57	5513	0.167	ppbV	86
50) benzene	10.953	78	12088	0.208	ppbV	100
53) cyclohexane	11.267	56	6940	0.196	ppbV	89
56) 1,2-dichloropropane	0.000		0	N.D.		

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548853.D
Acq On : 18 Jun 2024 9:50 PM
Operator : AIRLAB15:JMB
Sample : L2432670-05,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:06:58 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618T\r1548845.D
Sub List : TO15-NY+NAPH-7-SIM - .

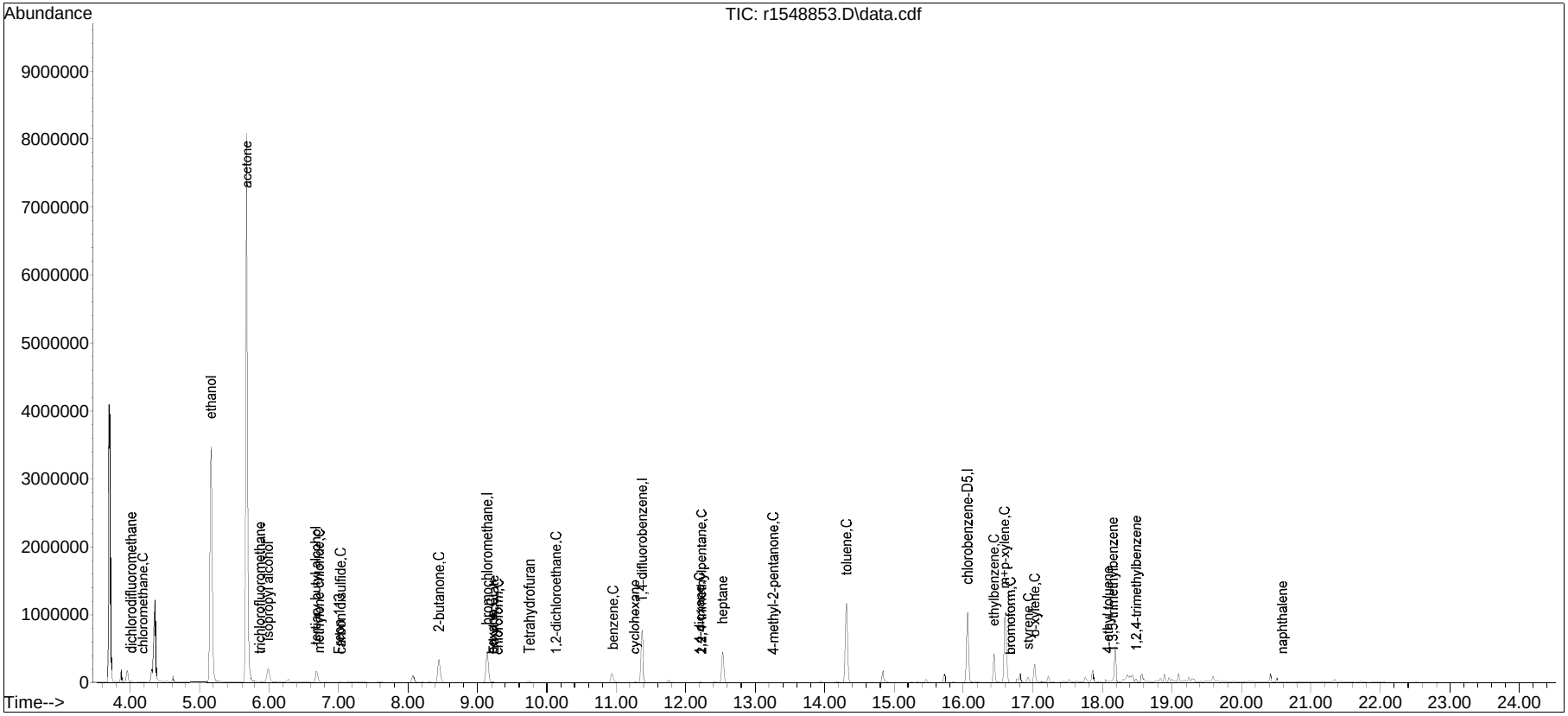
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
57)	bromodichloromethane	0.000		0	N.D.			
58)	1,4-dioxane	12.200	88	4068	0.305	ppbV		85
60)	2,2,4-trimethylpentane	12.227	57	9964	0.090	ppbV	#	86
62)	heptane	12.533	43	235407	6.409	ppbV		97
63)	cis-1,3-dichloropropene	0.000		0	N.D.			
64)	4-methyl-2-pentanone	13.258	43	4006	0.096	ppbV	#	95
65)	trans-1,3-dichloropropene	0.000		0	N.D.			
66)	1,1,2-trichloroethane	0.000		0	N.D.			
68)	toluene	14.317	91	997748	11.761	ppbV		99
72)	2-hexanone	0.000		0	N.D.	d		
74)	dibromochloromethane	0.000		0	N.D.			
75)	1,2-dibromoethane	0.000		0	N.D.			
80)	chlorobenzene	16.108		0	N.D.			
81)	ethylbenzene	16.442	91	330021	3.035	ppbV		97
83)	m+p-xylene	16.592	91	820486	9.639	ppbV		97
84)	bromoform	16.675	173	1298	0.045	ppbV	#	85
85)	styrene	16.933	104	31624	0.472	ppbV		96
86)	1,1,2,2-tetrachloroethane	17.000		0	N.D.			
87)	o-xylene	17.025	91	177502	2.086	ppbV		93
96)	4-ethyl toluene	18.083	105	5393M4	0.048	ppbV		
97)	1,3,5-trimethylbenzene	18.150	105	7512	0.069	ppbV	#	95
99)	1,2,4-trimethylbenzene	18.492	105	19427	0.210	ppbV	#	59
101)	Benzyl Chloride	18.617		0	N.D.			
102)	1,3-dichlorobenzene	18.625		0	N.D.			
103)	1,4-dichlorobenzene	18.683		0	N.D.			
107)	1,2-dichlorobenzene	0.000		0	N.D.			
115)	1,2,4-trichlorobenzene	0.000		0	N.D.			
116)	naphthalene	20.592	128	7723	0.064	ppbV	#	95
119)	hexachlorobutadiene	0.000		0	N.D.			

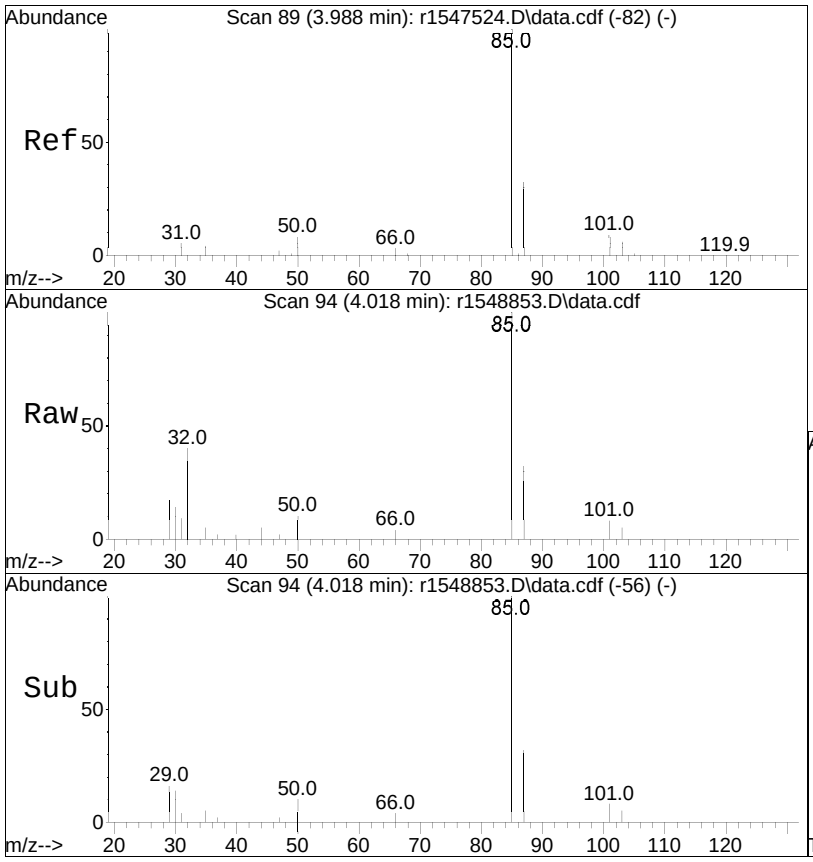
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY+NAPH-7-SIM - .ab15\2024\06\0618T\r1548845.D

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548853.D
Acq On : 18 Jun 2024 9:50 PM
Operator : AIRLAB15:JMB
Sample : L2432670-05,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:06:58 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

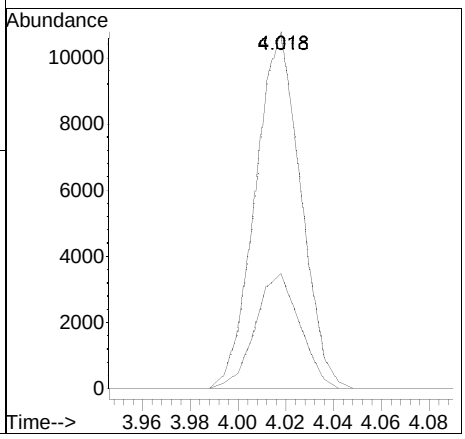


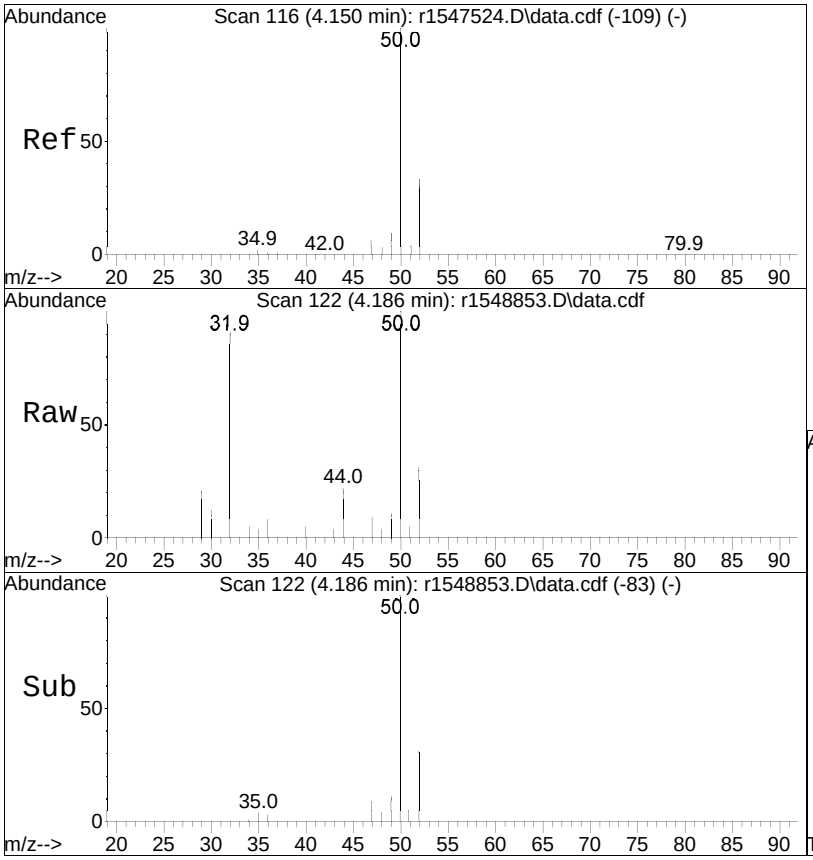


#5
dichlorodifluoromethane
Concen: 0.45 ppbV
RT: 4.018 min Scan# 94
Delta R.T. 0.030 min
Lab File: r1548853.D
Acq: 18 Jun 2024 9:50 PM

Tgt Ion: 85 Resp: 14081

Ion	Ratio	Lower	Upper
85	100		
87	32.2	25.8	38.8

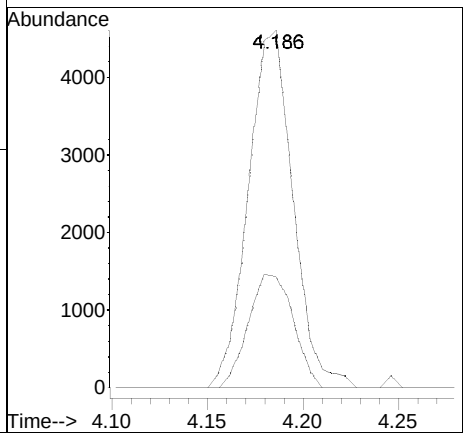


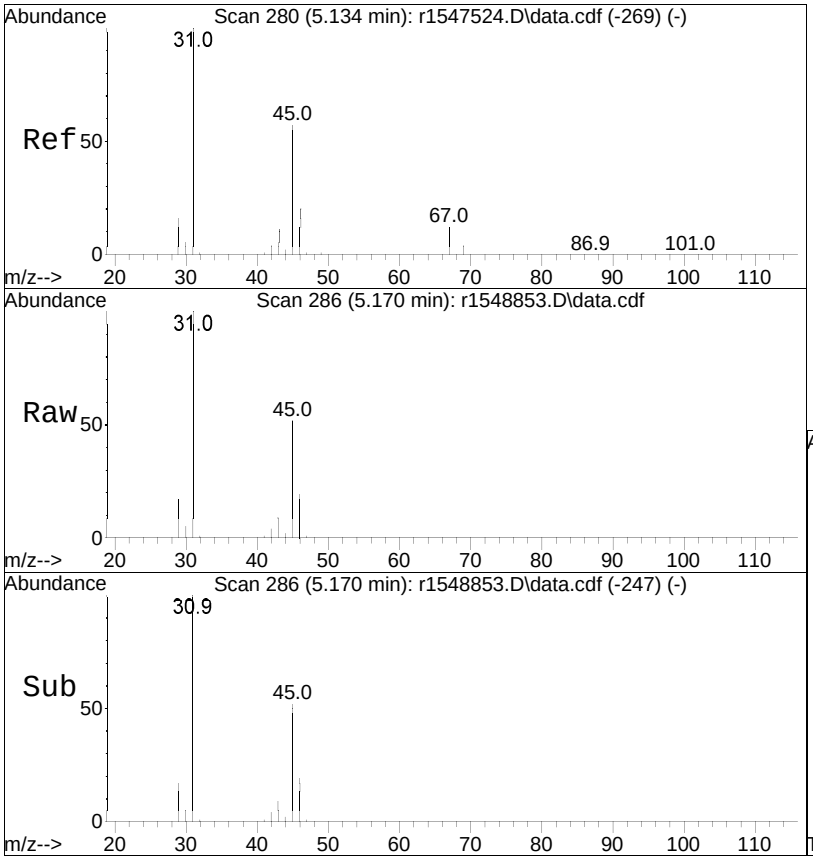


#6
chloromethane
Concen: 0.63 ppbV
RT: 4.186 min Scan# 122
Delta R.T. 0.036 min
Lab File: r1548853.D
Acq: 18 Jun 2024 9:50 PM

Tgt Ion: 50 Resp: 7425

Ion	Ratio	Lower	Upper
50	100		
52	31.1	26.0	39.0

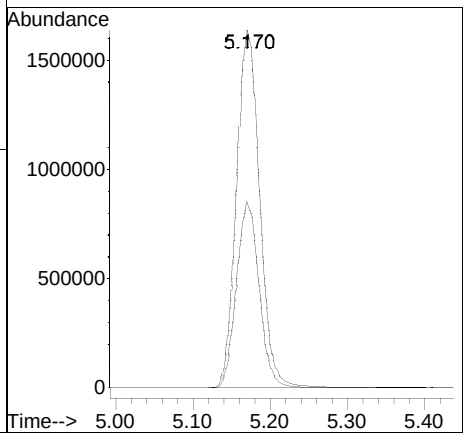


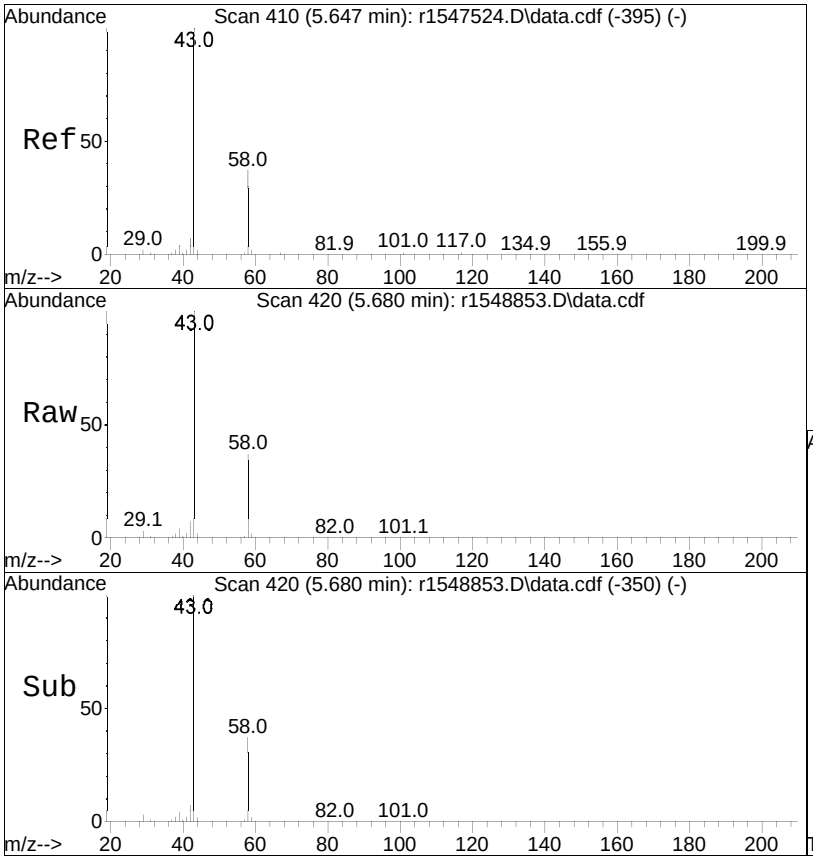


#15
ethanol
Concen: 344.19 ppbV
RT: 5.170 min Scan# 286
Delta R.T. 0.036 min
Lab File: r1548853.D
Acq: 18 Jun 2024 9:50 PM

Tgt Ion: 31 Resp: 3228045

Ion	Ratio	Lower	Upper
31	100		
45	52.3	45.7	68.5

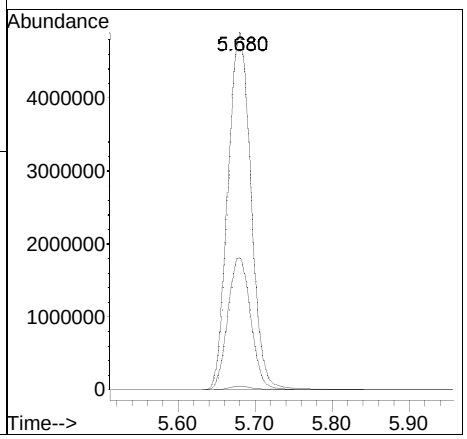


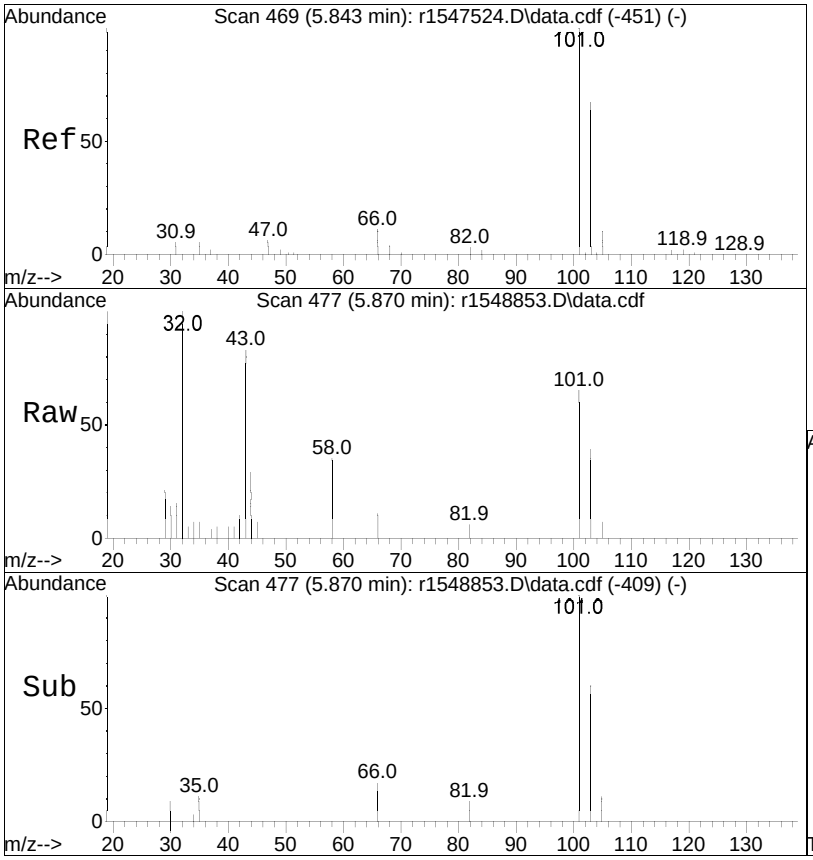


#19
acetone
Concen: 530.39 ppbV
RT: 5.680 min Scan# 420
Delta R.T. 0.033 min
Lab File: r1548853.D
Acq: 18 Jun 2024 9:50 PM

Tgt Ion: 43 Resp:10032772

Ion	Ratio	Lower	Upper
43	100		
58	37.2	29.4	44.0
57	0.9	0.7	1.1

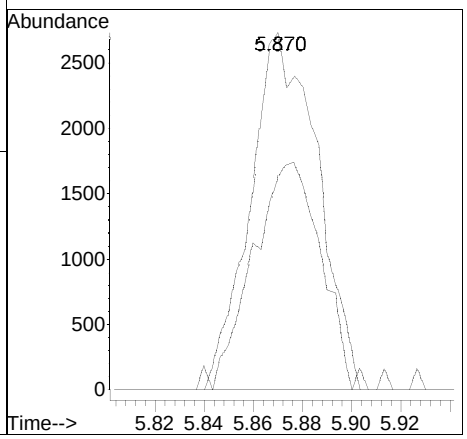


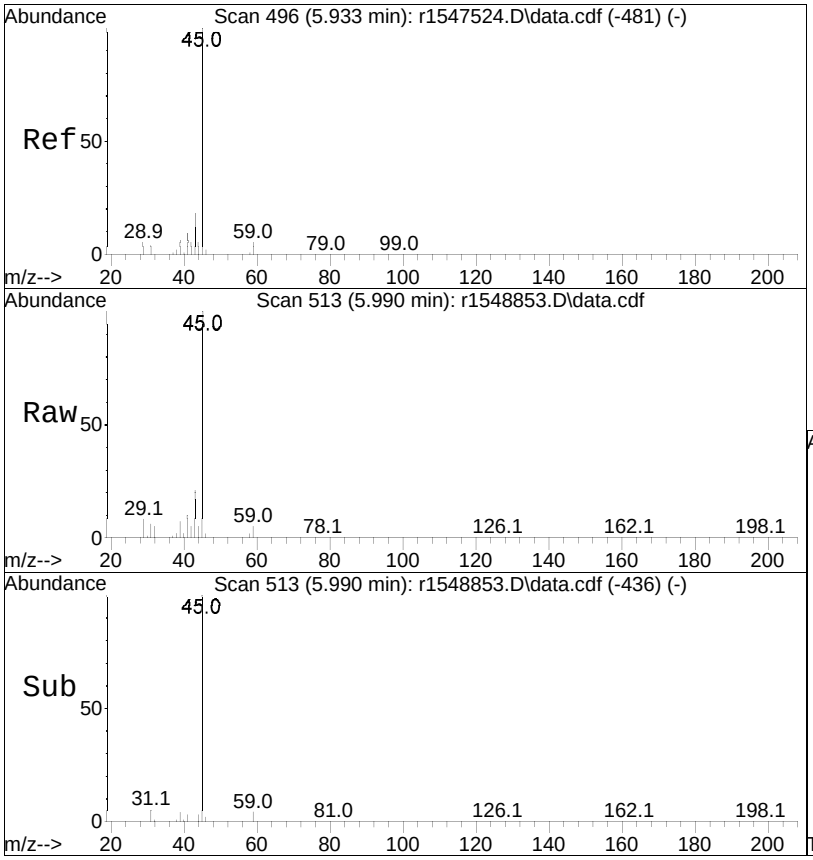


#21
trichlorofluoromethane
Concen: 0.20 ppbV
RT: 5.870 min Scan# 477
Delta R.T. 0.027 min
Lab File: r1548853.D
Acq: 18 Jun 2024 9:50 PM

Tgt Ion:101 Resp: 5179

Ion	Ratio	Lower	Upper
101	100		
103	59.8	53.4	80.0

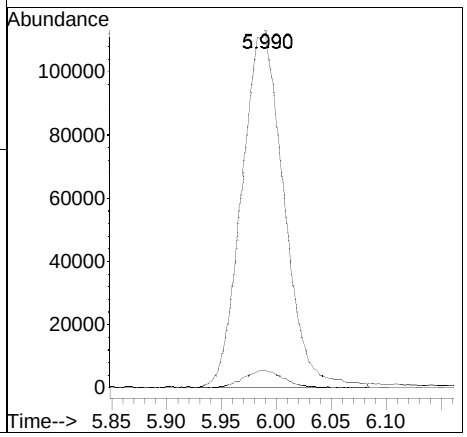


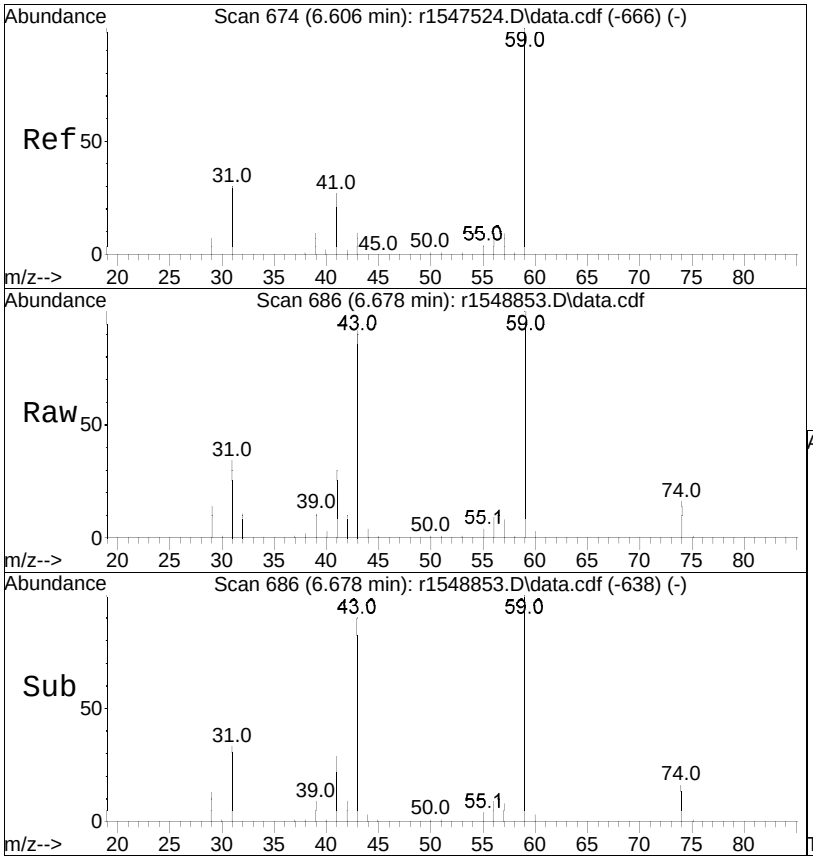


#22
isopropyl alcohol
Concen: 12.79 ppbV
RT: 5.990 min Scan# 513
Delta R.T. 0.057 min
Lab File: r1548853.D
Acq: 18 Jun 2024 9:50 PM

Tgt Ion: 45 Resp: 296931

Ion	Ratio	Lower	Upper
45	100		
59	4.8	3.8	5.6

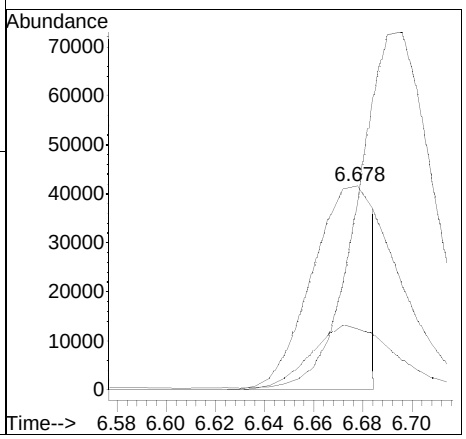


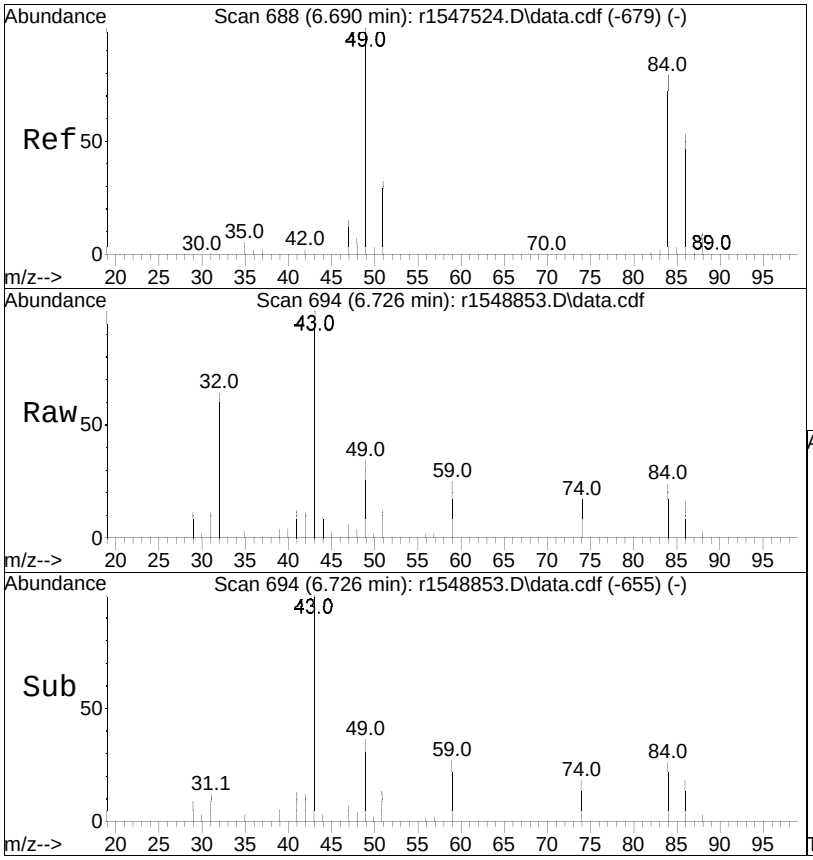


#27
tertiary butyl alcohol
Concen: 1.96 ppbV m
RT: 6.678 min Scan# 686
Delta R.T. 0.072 min
Lab File: r1548853.D
Acq: 18 Jun 2024 9:50 PM

Tgt Ion: 59 Resp: 72937

Ion	Ratio	Lower	Upper
59	100		
41	29.9	21.3	31.9
43	92.0	7.4	11.0#

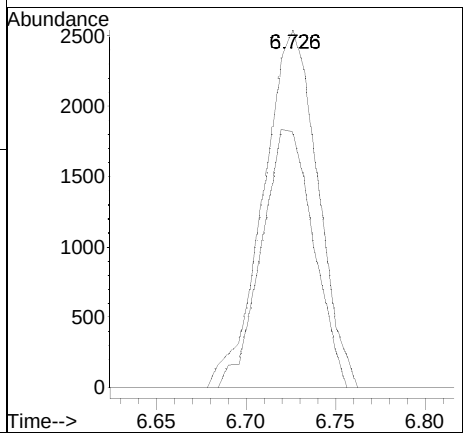


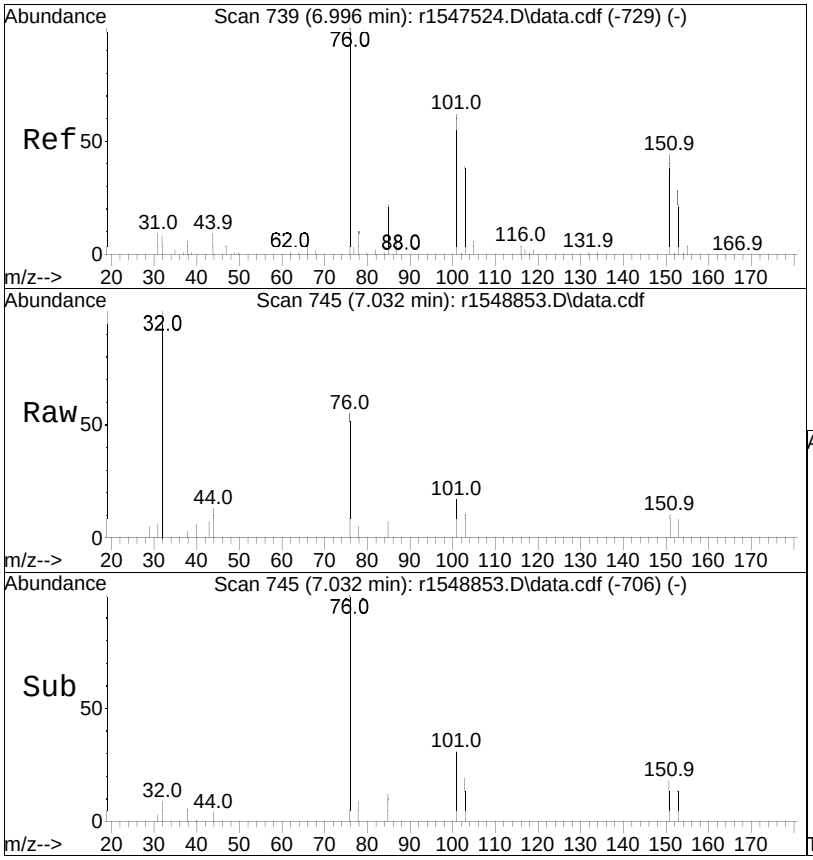


#28
methylene chloride
Concen: 0.25 ppbV
RT: 6.726 min Scan# 694
Delta R.T. 0.036 min
Lab File: r1548853.D
Acq: 18 Jun 2024 9:50 PM

Tgt Ion: 49 Resp: 5378

Ion	Ratio	Lower	Upper
49	100		
84	71.8	63.4	95.2

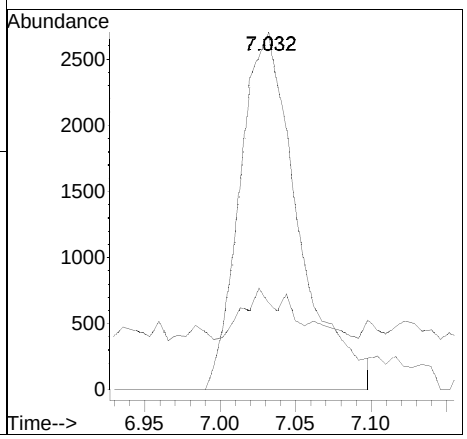


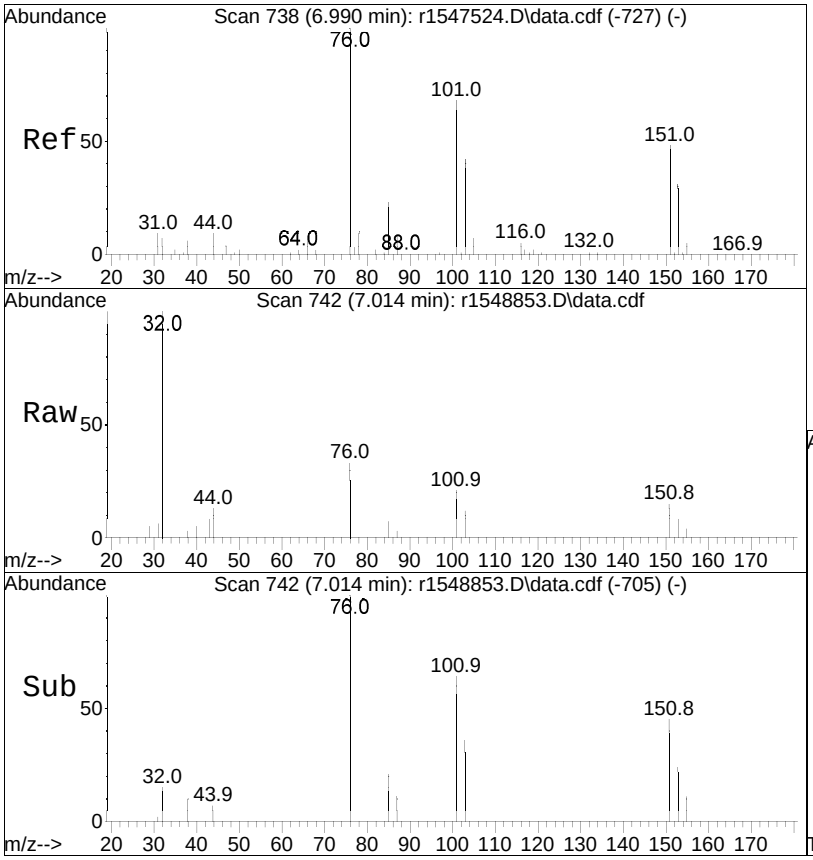


#30
carbon disulfide
Concen: 0.13 ppbV
RT: 7.032 min Scan# 745
Delta R.T. 0.036 min
Lab File: r1548853.D
Acq: 18 Jun 2024 9:50 PM

Tgt Ion: 76 Resp: 7237

Ion	Ratio	Lower	Upper
76	100		
44	24.6	7.5	11.3#

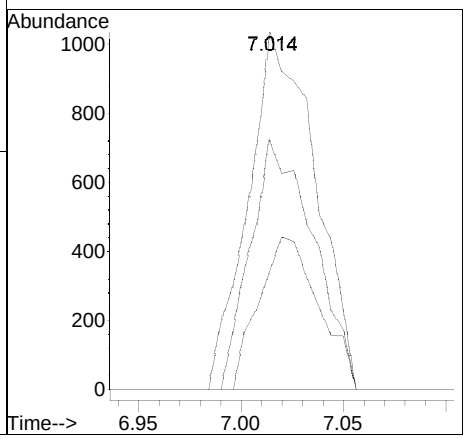


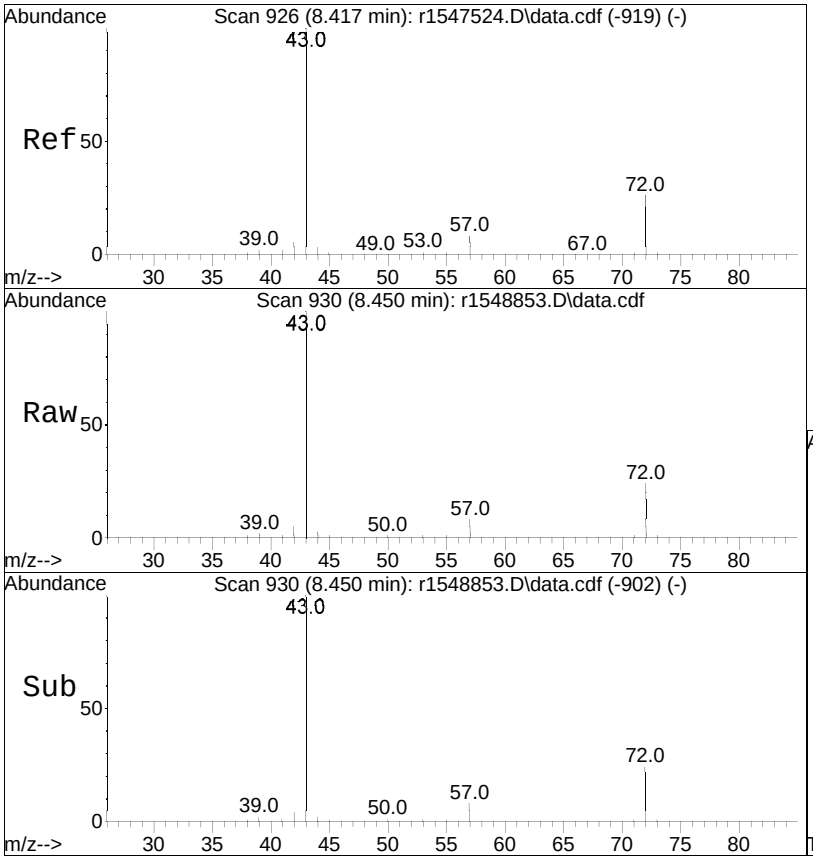


#31
Freon 113
Concen: 0.06 ppbV
RT: 7.014 min Scan# 742
Delta R.T. 0.024 min
Lab File: r1548853.D
Acq: 18 Jun 2024 9:50 PM

Tgt Ion:101 Resp: 2348

Ion	Ratio	Lower	Upper
101	100		
85	33.4	27.6	41.4
151	70.2	56.9	85.3

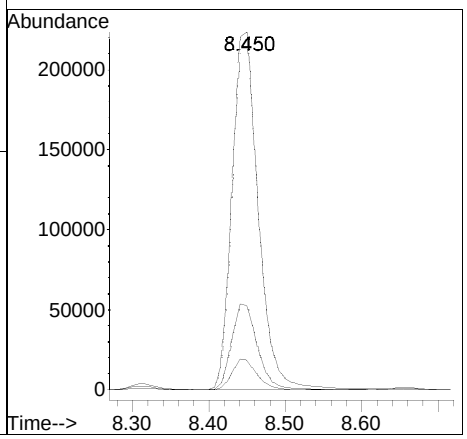


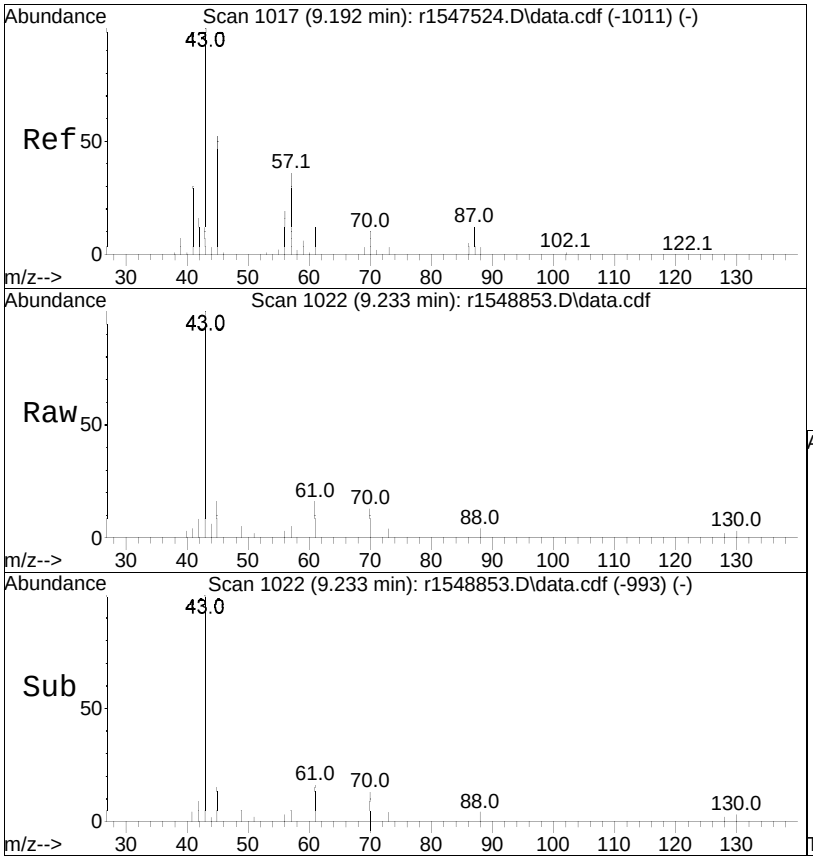


#36
2-butanone
Concen: 12.36 ppbV
RT: 8.450 min Scan# 930
Delta R.T. 0.033 min
Lab File: r1548853.D
Acq: 18 Jun 2024 9:50 PM

Tgt Ion: 43 Resp: 523737

Ion	Ratio	Lower	Upper
43	100		
72	23.8	20.9	31.3
57	8.3	6.6	10.0

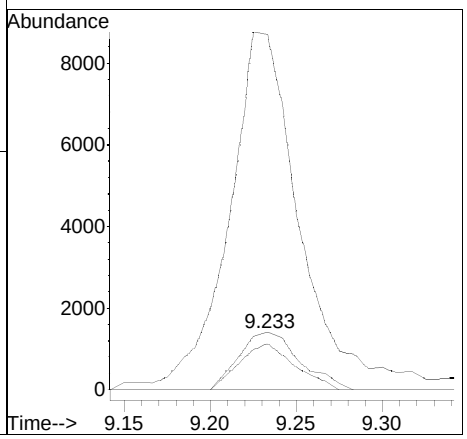


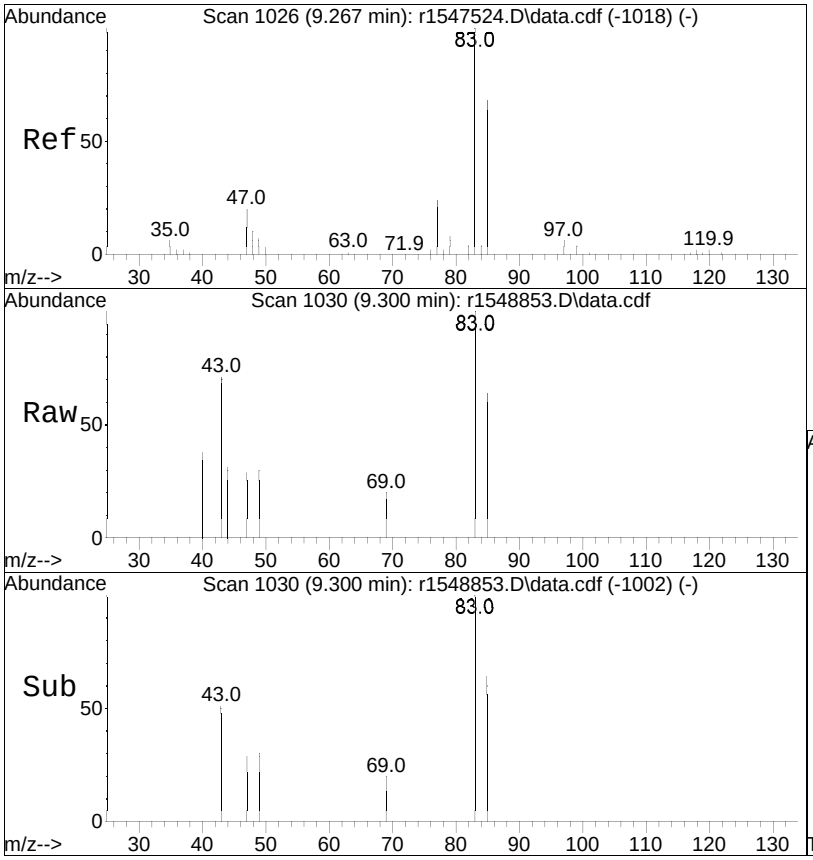


#38
Ethyl Acetate
Concen: 0.43 ppbV
RT: 9.233 min Scan# 1022
Delta R.T. 0.042 min
Lab File: r1548853.D
Acq: 18 Jun 2024 9:50 PM

Tgt Ion: 61 Resp: 3476

Ion	Ratio	Lower	Upper
61	100		
70	81.3	67.9	101.9
43	623.3	703.5	1055.3#

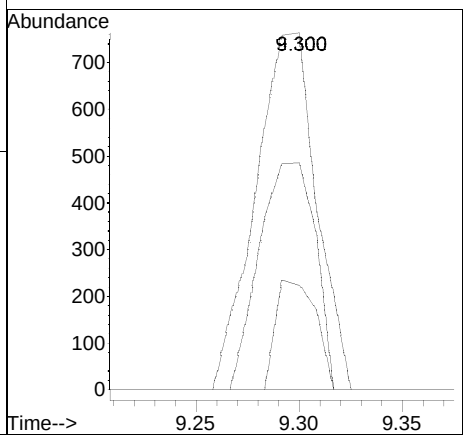


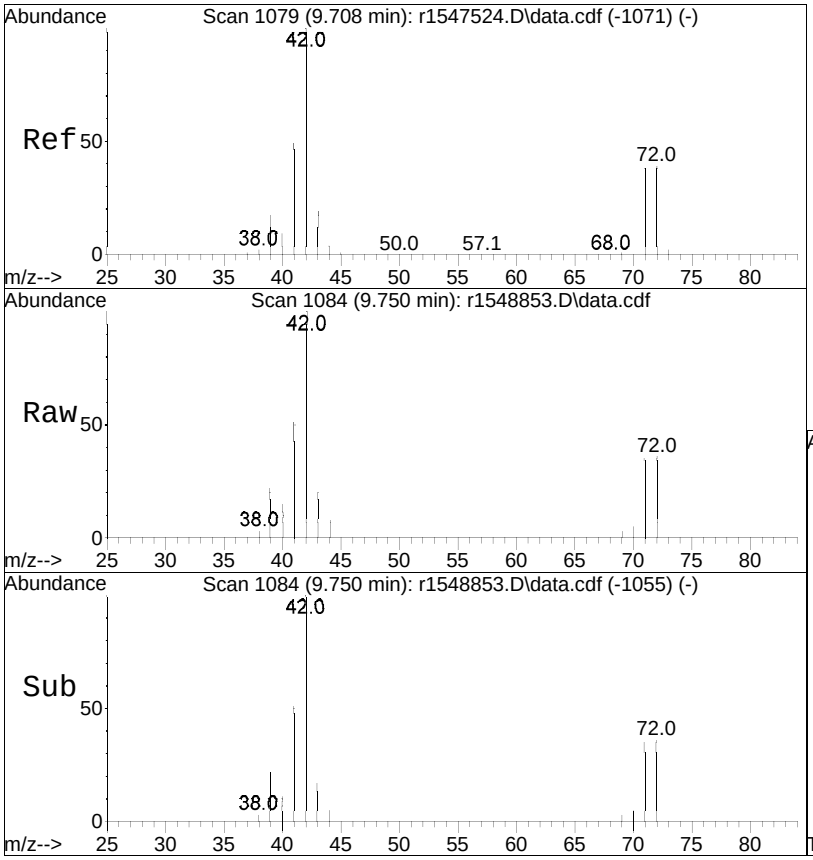


#39
chloroform
Concen: 0.05 ppbV
RT: 9.300 min Scan# 1030
Delta R.T. 0.033 min
Lab File: r1548853.D
Acq: 18 Jun 2024 9:50 PM

Tgt Ion: 83 Resp: 1558

Ion	Ratio	Lower	Upper
83	100		
85	63.6	54.3	81.5
47	29.5	16.4	24.6#

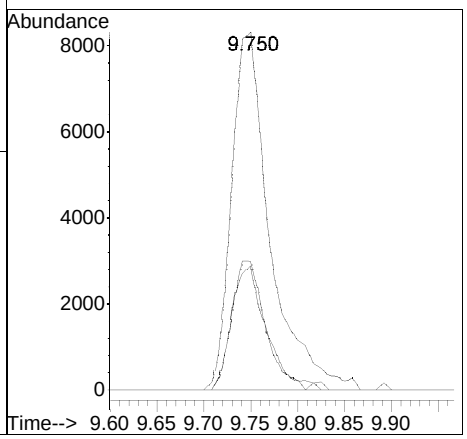


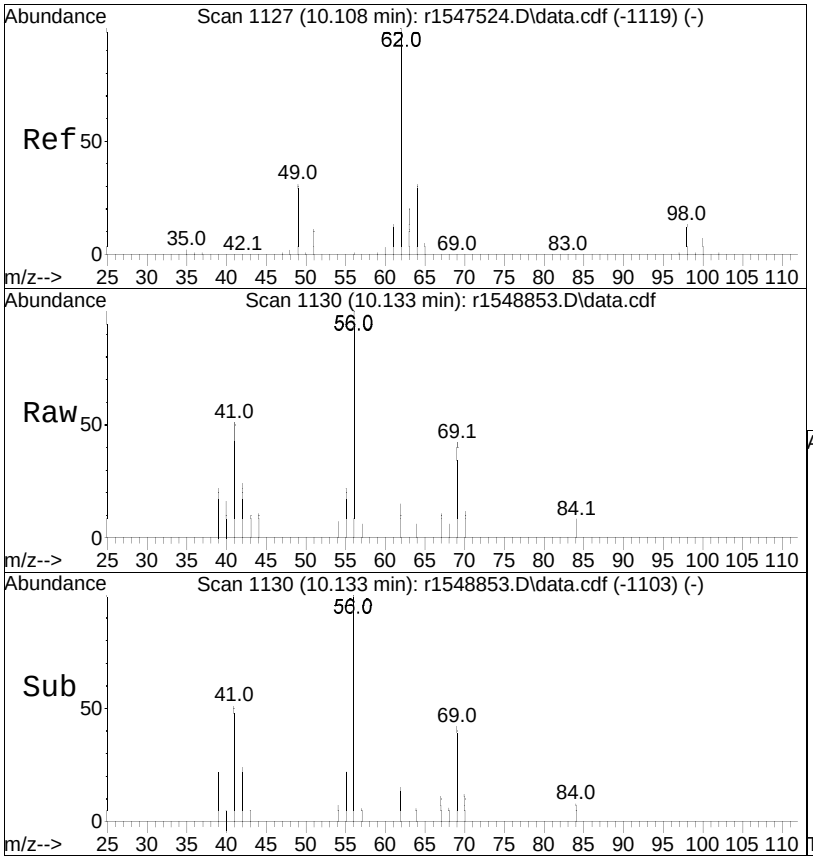


#40
Tetrahydrofuran
Concen: 0.88 ppbV
RT: 9.750 min Scan# 1084
Delta R.T. 0.042 min
Lab File: r1548853.D
Acq: 18 Jun 2024 9:50 PM

Tgt Ion: 42 Resp: 23544

Ion	Ratio	Lower	Upper
42	100		
71	34.7	30.1	45.1
72	36.0	31.4	47.2

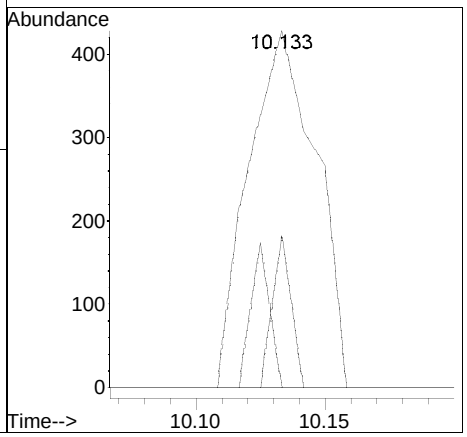


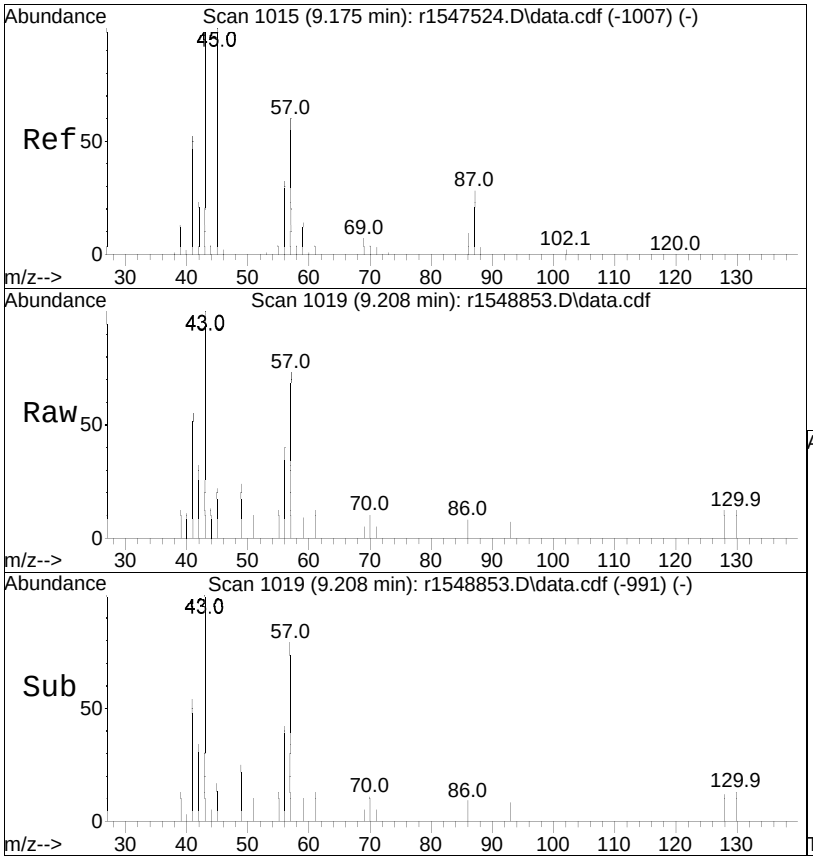


#42
1,2-dichloroethane
Concen: 0.03 ppbV
RT: 10.133 min Scan# 1130
Delta R.T. 0.025 min
Lab File: r1548853.D
Acq: 18 Jun 2024 9:50 PM

Tgt Ion: 62 Resp: 770

Ion	Ratio	Lower	Upper
62	100		
64	42.8	25.2	37.8#
49	0.0	24.8	37.2#
63	0.0	16.3	24.5#

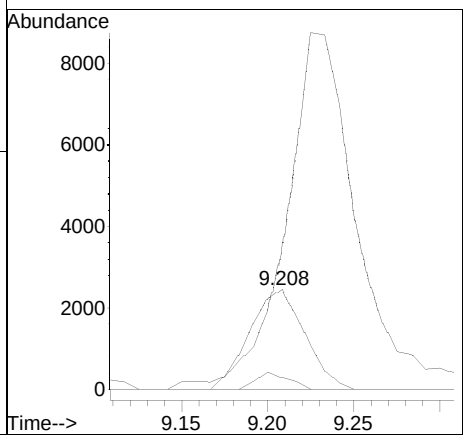


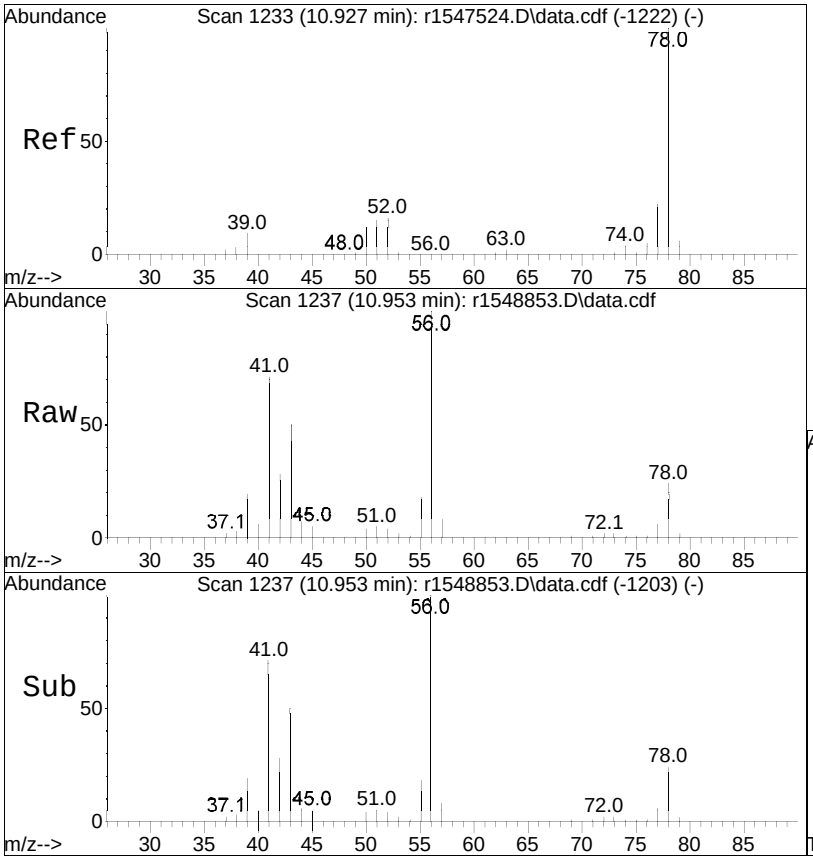


#44
hexane
Concen: 0.17 ppbV
RT: 9.208 min Scan# 1019
Delta R.T. 0.033 min
Lab File: r1548853.D
Acq: 18 Jun 2024 9:50 PM

Tgt Ion: 57 Resp: 5513

Ion	Ratio	Lower	Upper
57	100		
43	136.1	124.6	186.8
86	11.5	11.5	17.3

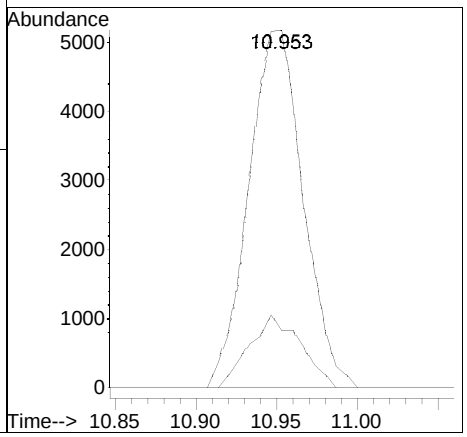


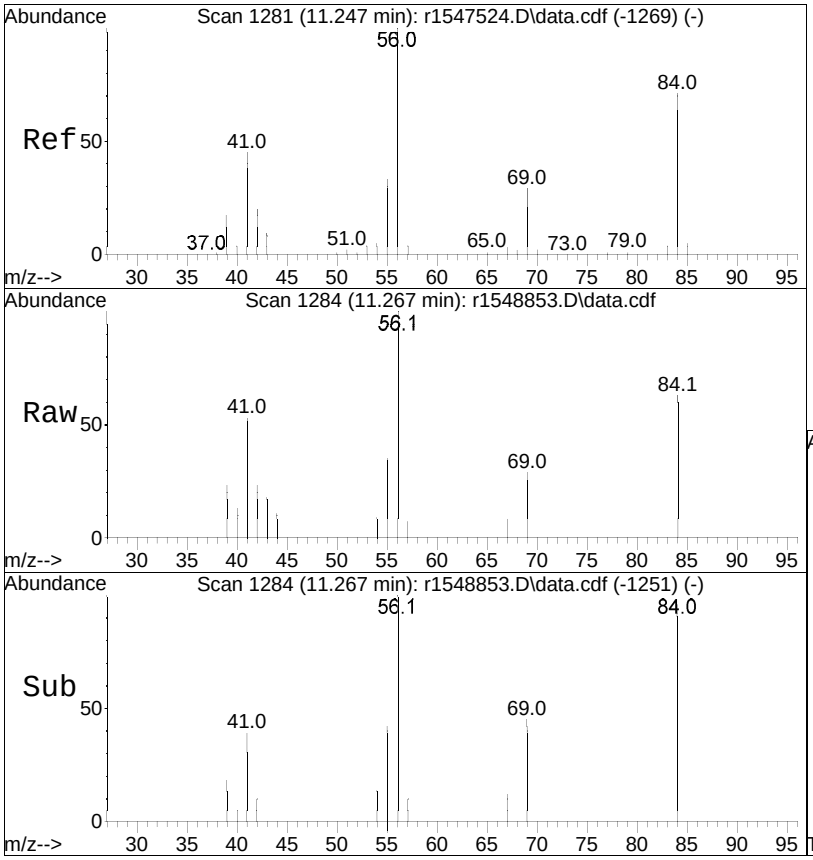


#50
benzene
Concen: 0.21 ppbV
RT: 10.953 min Scan# 1237
Delta R.T. 0.027 min
Lab File: r1548853.D
Acq: 18 Jun 2024 9:50 PM

Tgt Ion: 78 Resp: 12088

Ion	Ratio	Lower	Upper
78	100		
52	16.1	13.0	19.4

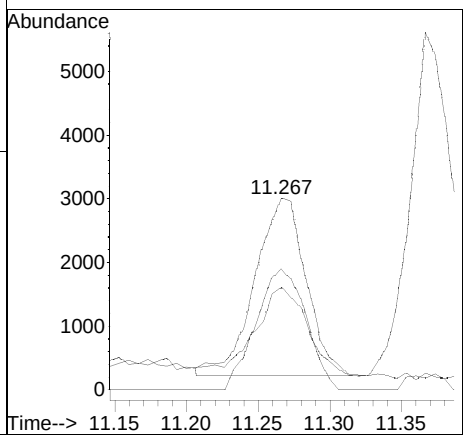


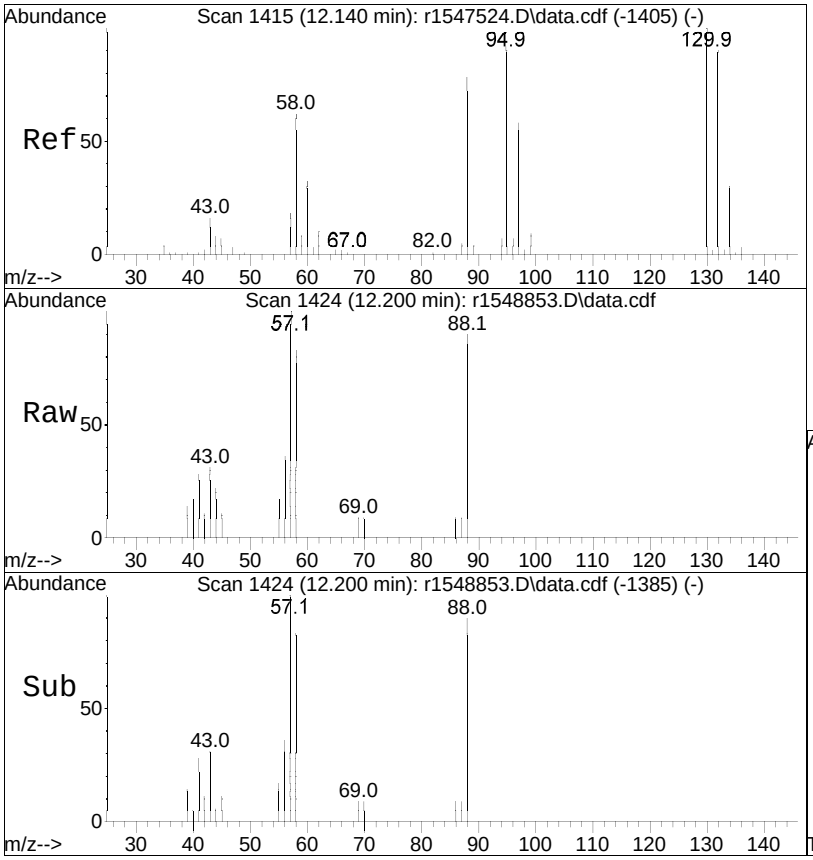


#53
cyclohexane
Concen: 0.20 ppbV
RT: 11.267 min Scan# 1284
Delta R.T. 0.020 min
Lab File: r1548853.D
Acq: 18 Jun 2024 9:50 PM

Tgt Ion: 56 Resp: 6940

Ion	Ratio	Lower	Upper
56	100		
84	63.0	57.2	85.8
41	53.4	35.9	53.9

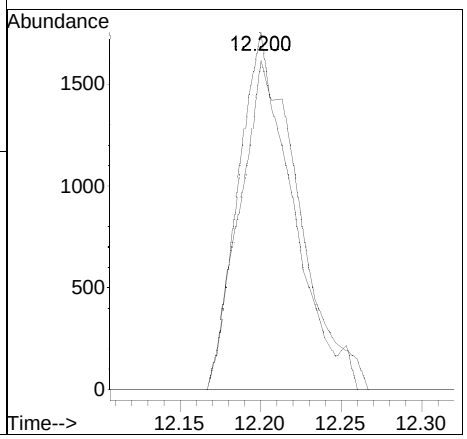


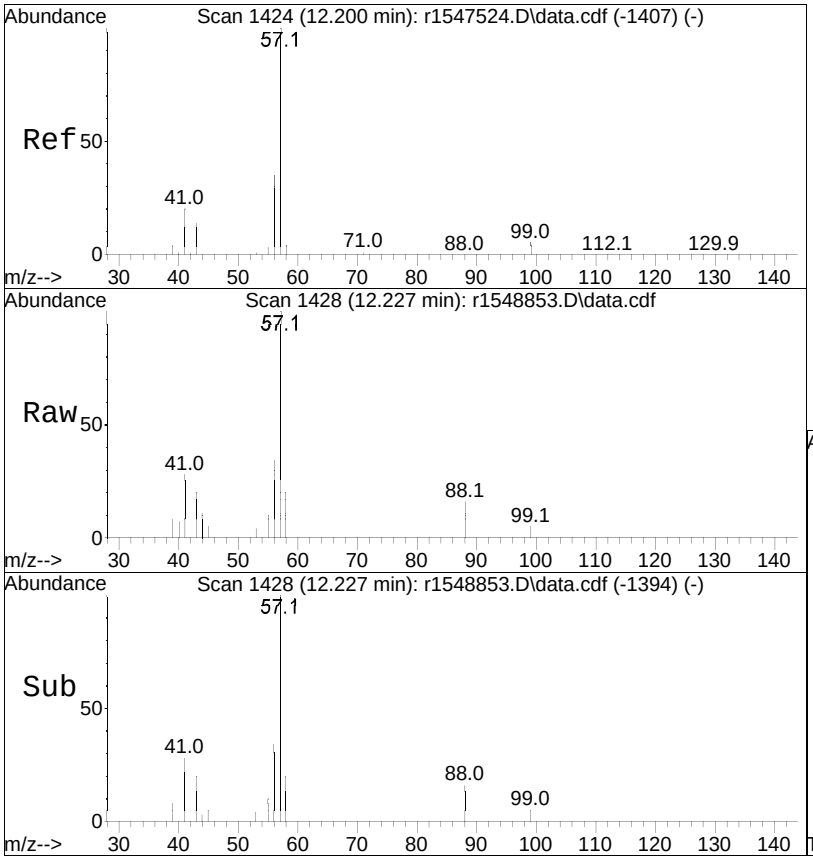


#58
1,4-dioxane
Concen: 0.30 ppbV
RT: 12.200 min Scan# 1424
Delta R.T. 0.060 min
Lab File: r1548853.D
Acq: 18 Jun 2024 9:50 PM

Tgt Ion: 88 Resp: 4068

Ion	Ratio	Lower	Upper
88	100		
58	92.2	63.4	95.0

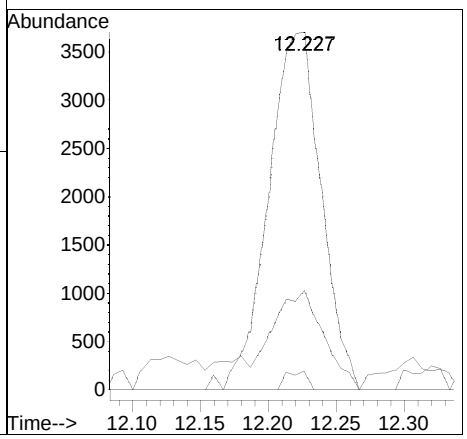


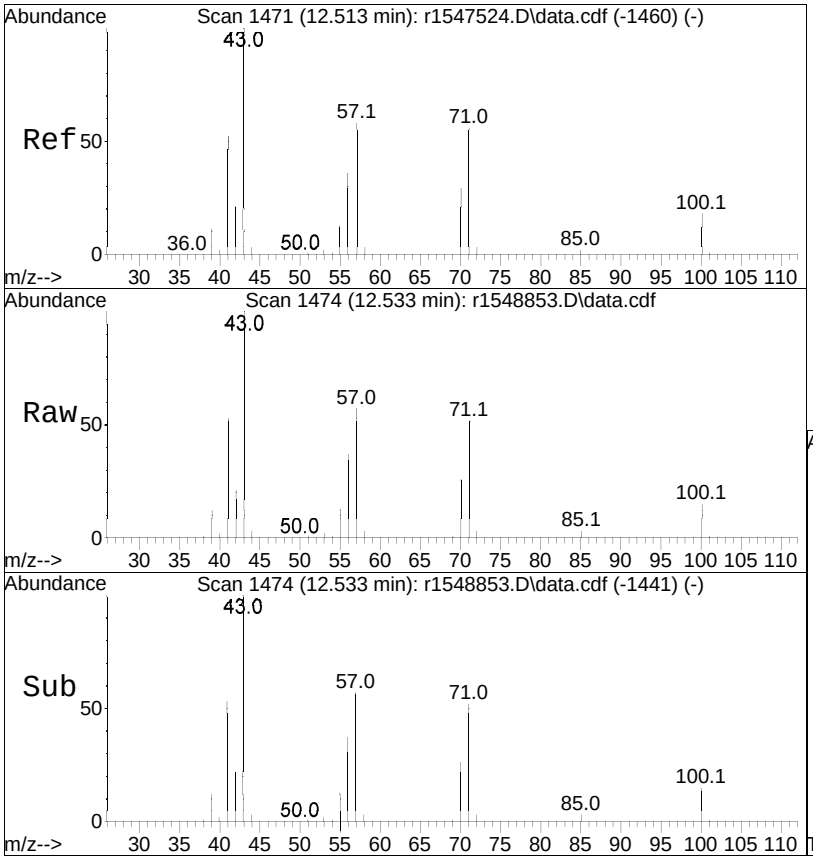


#60
2,2,4-trimethylpentane
Concen: 0.09 ppbV
RT: 12.227 min Scan# 1428
Delta R.T. 0.027 min
Lab File: r1548853.D
Acq: 18 Jun 2024 9:50 PM

Tgt Ion: 57 Resp: 9964

Ion	Ratio	Lower	Upper
57	100		
99	5.2	4.0	6.0
41	27.9	16.1	24.1#

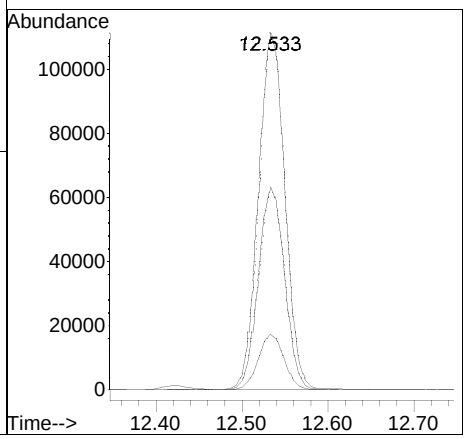


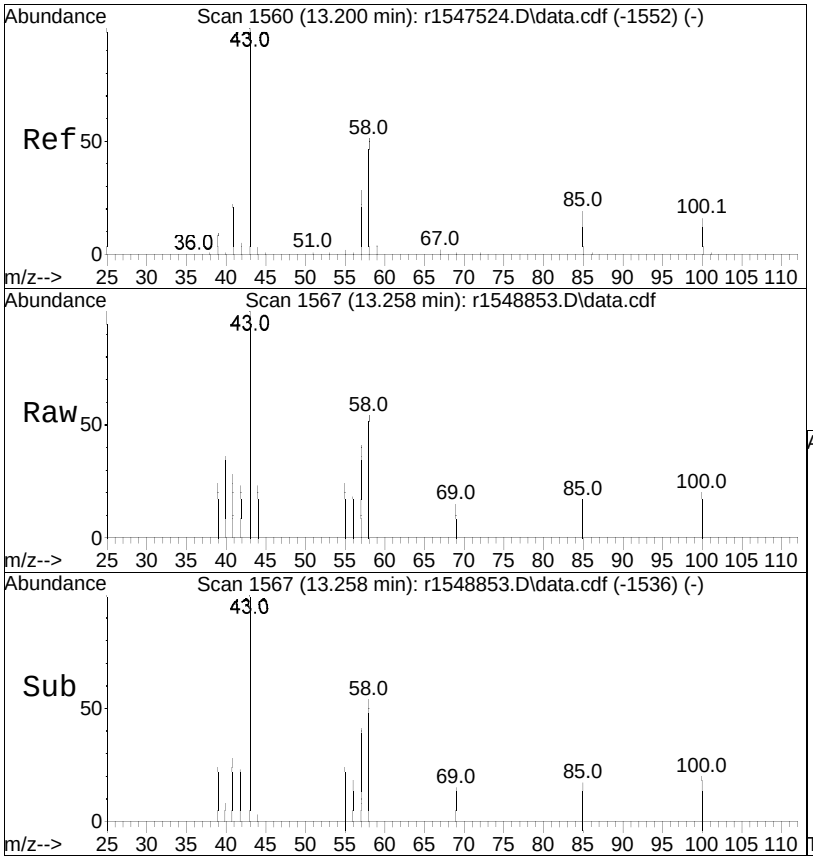


#62
heptane
Concen: 6.41 ppbV
RT: 12.533 min Scan# 1474
Delta R.T. 0.020 min
Lab File: r1548853.D
Acq: 18 Jun 2024 9:50 PM

Tgt Ion: 43 Resp: 235407

Ion	Ratio	Lower	Upper
43	100		
57	56.7	46.6	70.0
100	15.5	14.6	22.0

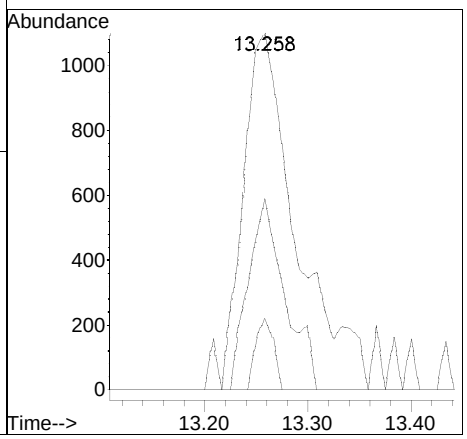


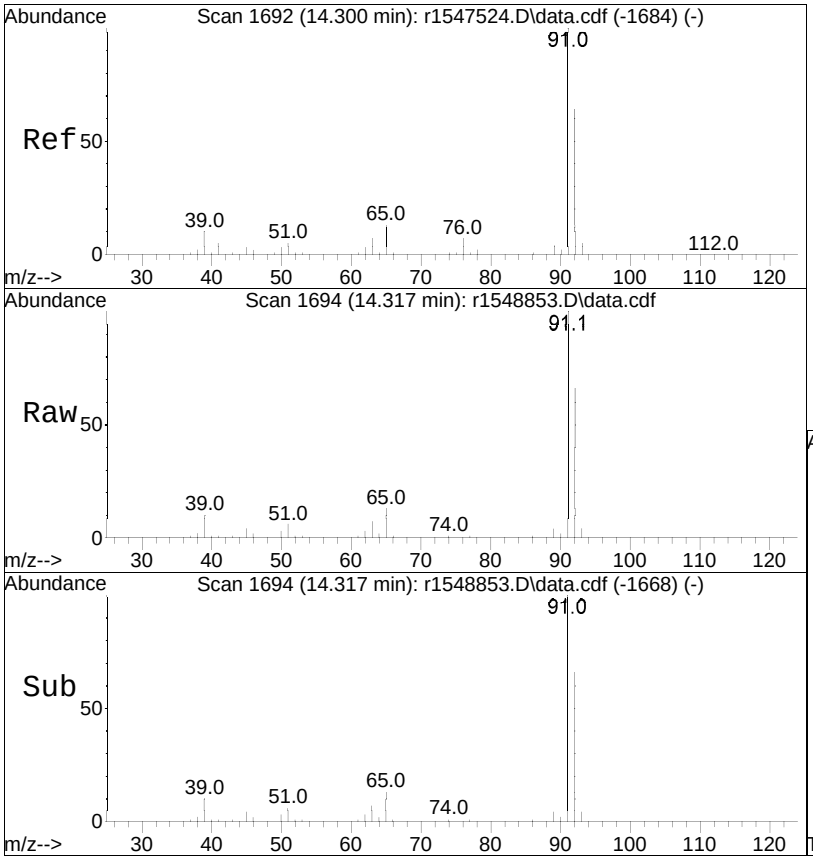


#64
4-methyl-2-pentanone
Concen: 0.10 ppbV
RT: 13.258 min Scan# 1567
Delta R.T. 0.058 min
Lab File: r1548853.D
Acq: 18 Jun 2024 9:50 PM

Tgt Ion: 43 Resp: 4006

Ion	Ratio	Lower	Upper
43	100		
58	53.5	41.0	61.4
100	20.1	13.0	19.6#

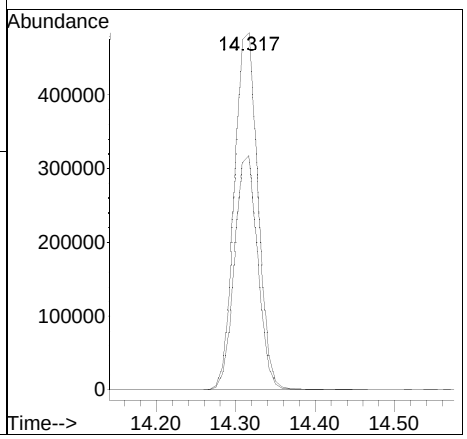


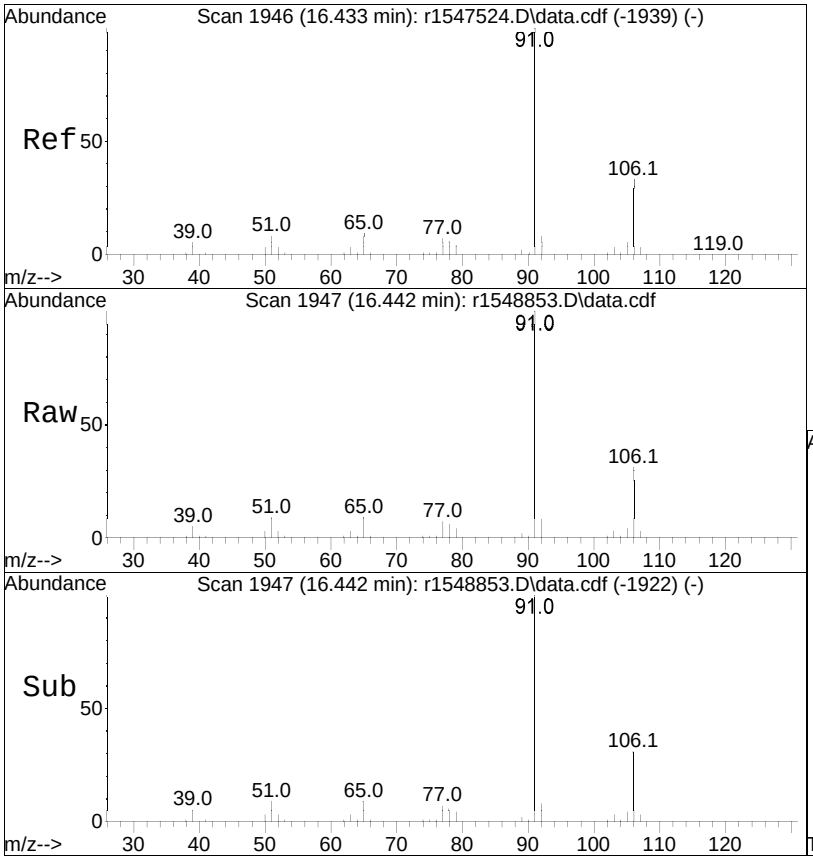


#68
toluene
Concen: 11.76 ppbV
RT: 14.317 min Scan# 1694
Delta R.T. 0.017 min
Lab File: r1548853.D
Acq: 18 Jun 2024 9:50 PM

Tgt Ion: 91 Resp: 997748

Ion	Ratio	Lower	Upper
91	100		
92	65.6	51.6	77.4

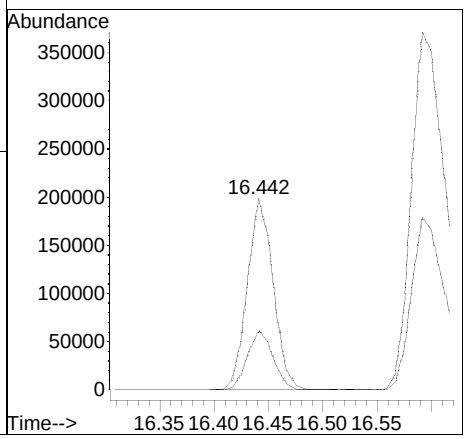


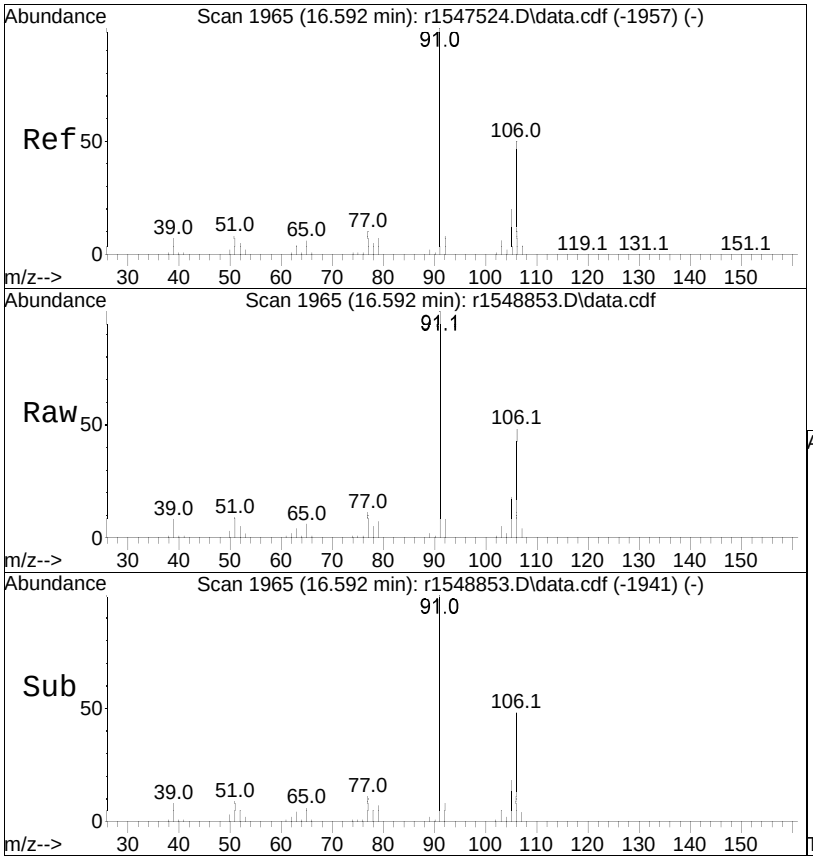


#81
ethylbenzene
Concen: 3.04 ppbV
RT: 16.442 min Scan# 1947
Delta R.T. 0.008 min
Lab File: r1548853.D
Acq: 18 Jun 2024 9:50 PM

Tgt Ion: 91 Resp: 330021

Ion	Ratio	Lower	Upper
91	100		
106	31.0	26.1	39.1

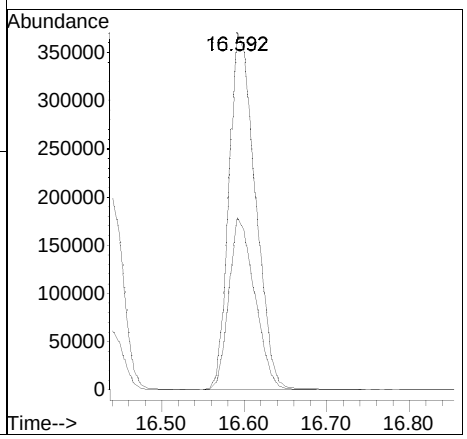


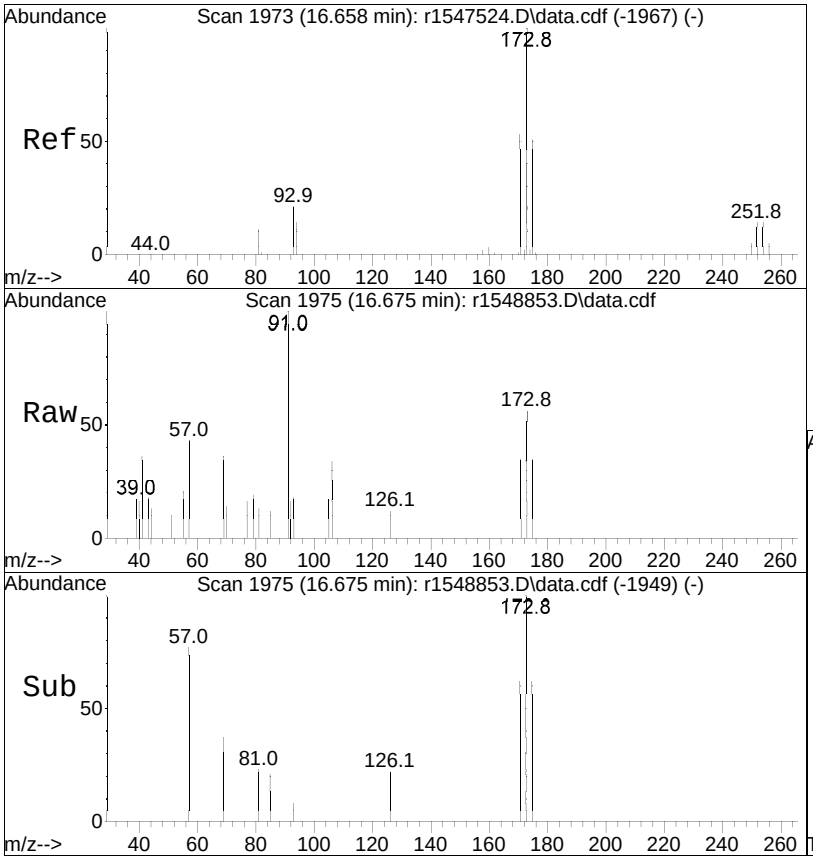


#83
m+p-xylene
Concen: 9.64 ppbV
RT: 16.592 min Scan# 1965
Delta R.T. 0.000 min
Lab File: r1548853.D
Acq: 18 Jun 2024 9:50 PM

Tgt Ion: 91 Resp: 820486

Ion	Ratio	Lower	Upper
91	100		
106	48.2	40.1	60.1

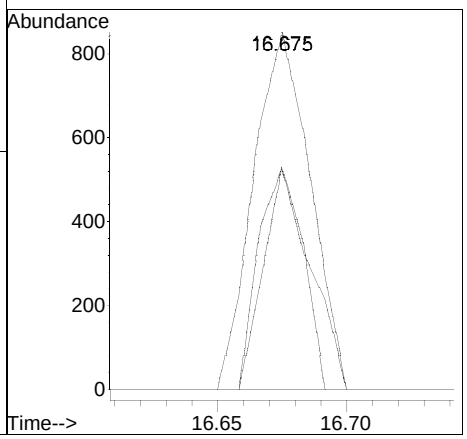


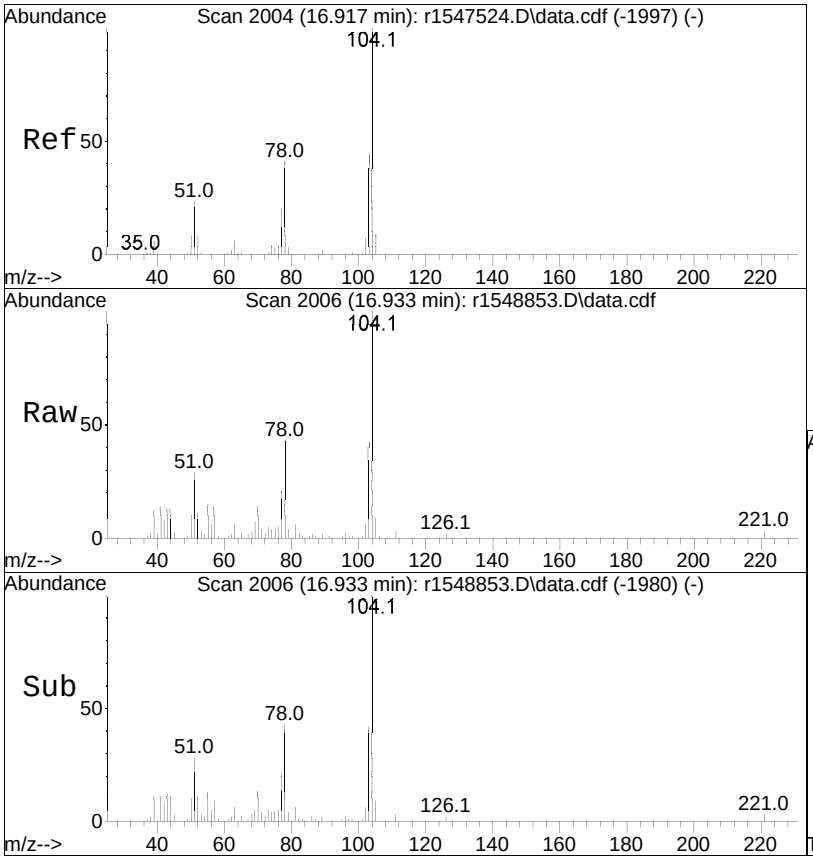


#84
bromoform
Concen: 0.04 ppbV
RT: 16.675 min Scan# 1975
Delta R.T. 0.017 min
Lab File: r1548853.D
Acq: 18 Jun 2024 9:50 PM

Tgt Ion:173 Resp: 1298

Ion	Ratio	Lower	Upper
173	100		
175	62.5	40.6	60.8#
171	62.0	42.4	63.6

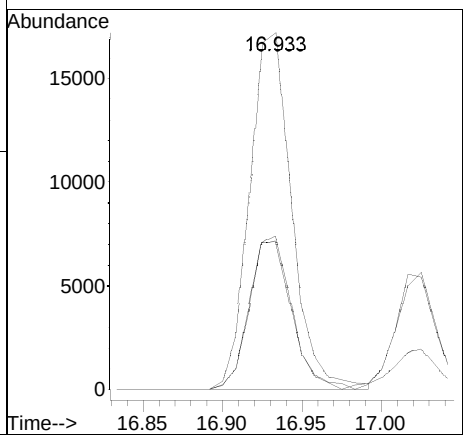


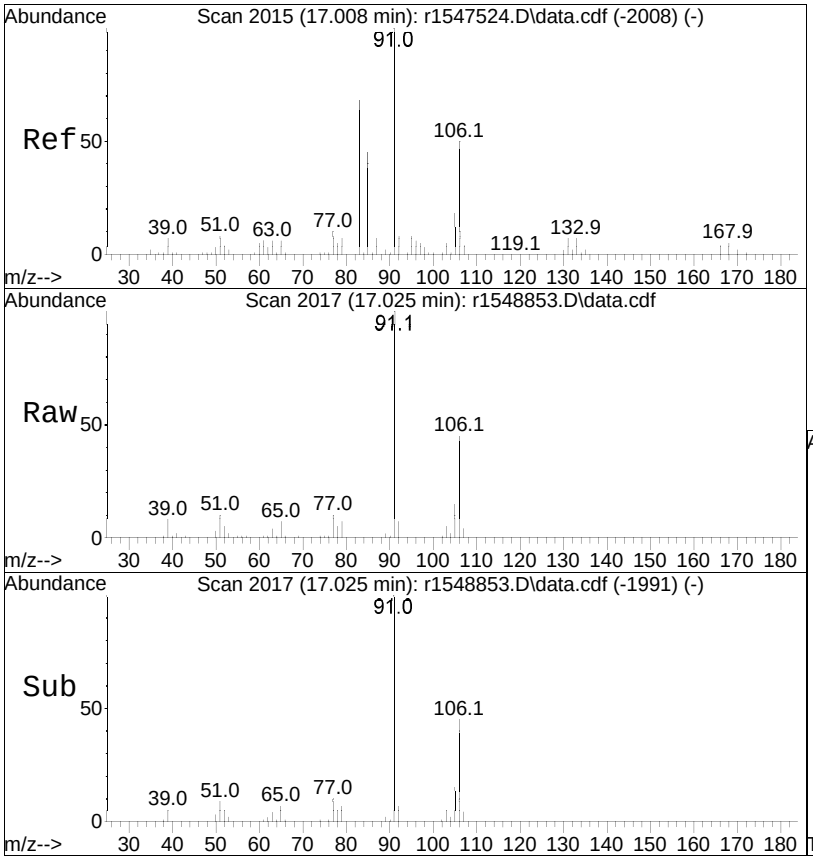


#85
styrene
Concen: 0.47 ppbV
RT: 16.933 min Scan# 2006
Delta R.T. 0.017 min
Lab File: r1548853.D
Acq: 18 Jun 2024 9:50 PM

Tgt Ion:104 Resp: 31624

Ion	Ratio	Lower	Upper
104	100		
103	41.8	35.2	52.8
78	43.2	32.6	48.8

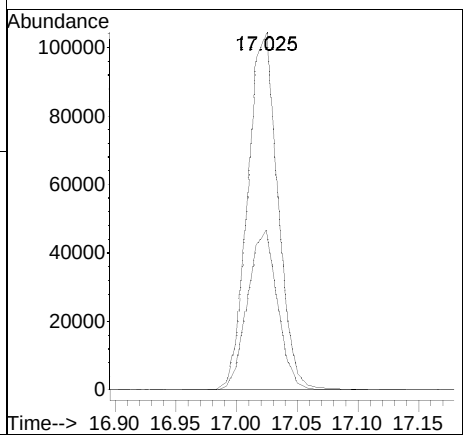


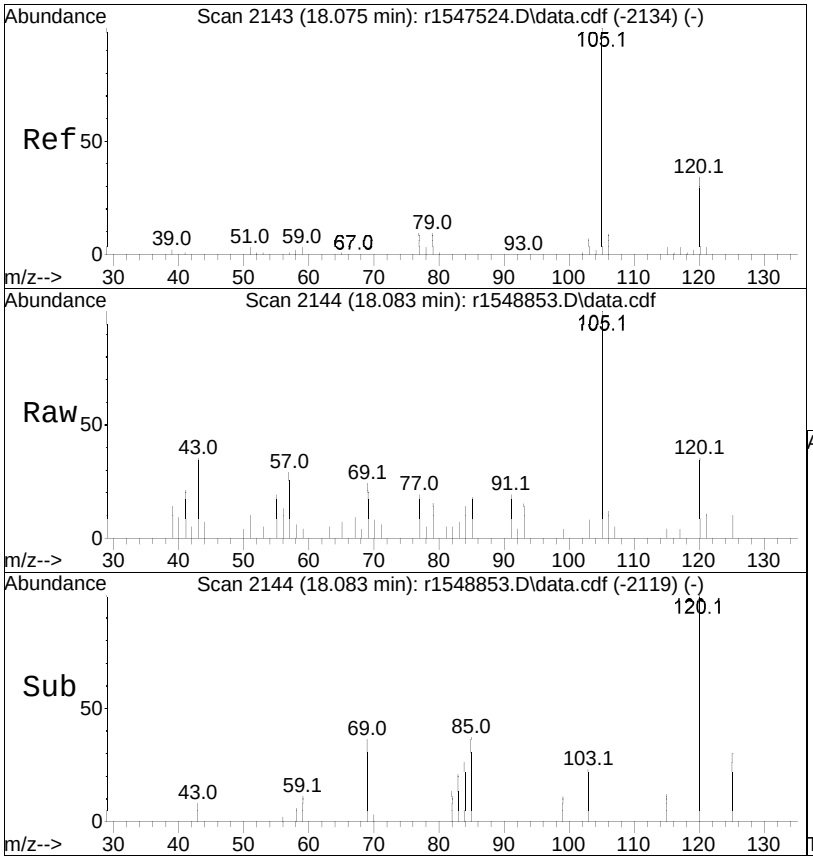


#87
o-xylene
Concen: 2.09 ppbV
RT: 17.025 min Scan# 2017
Delta R.T. 0.017 min
Lab File: r1548853.D
Acq: 18 Jun 2024 9:50 PM

Tgt Ion: 91 Resp: 177502

Ion	Ratio	Lower	Upper
91	100		
106	44.7	39.6	59.4

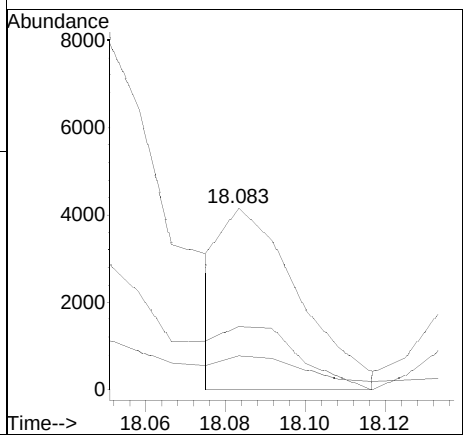


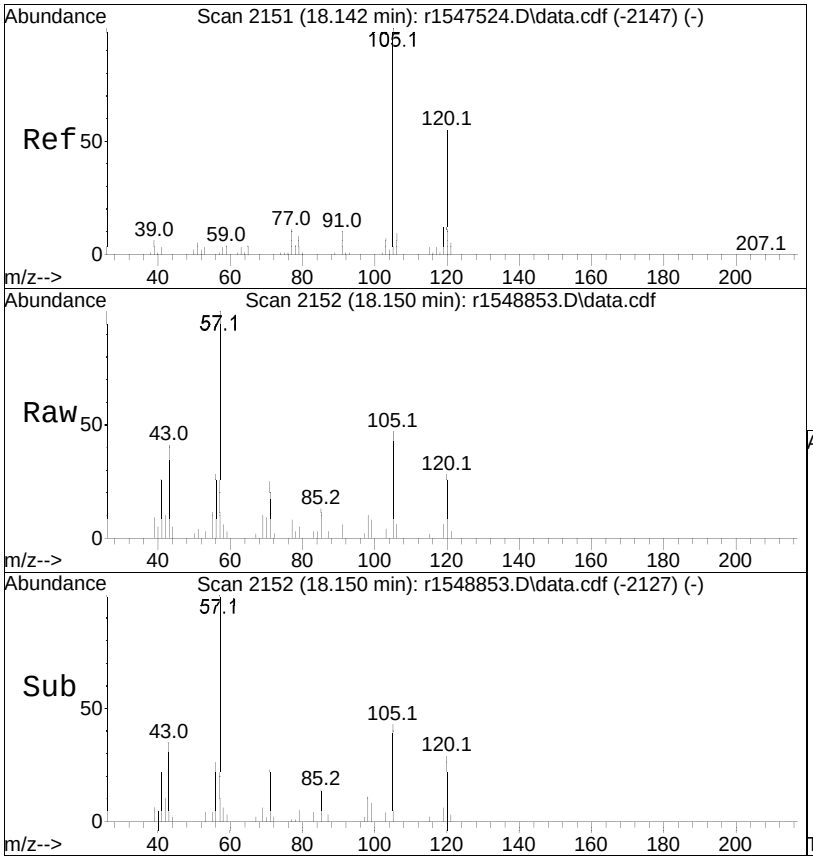


#96
4-ethyl toluene
Concen: 0.05 ppbV m
RT: 18.083 min Scan# 2144
Delta R.T. 0.008 min
Lab File: r1548853.D
Acq: 18 Jun 2024 9:50 PM

Tgt Ion:105 Resp: 5393

Ion	Ratio	Lower	Upper
105	100		
120	34.8	27.2	40.8
91	18.5	7.9	11.9#

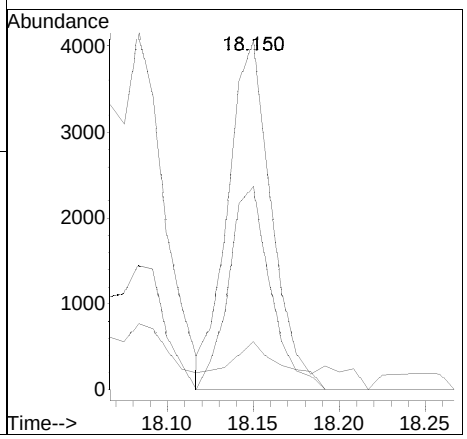


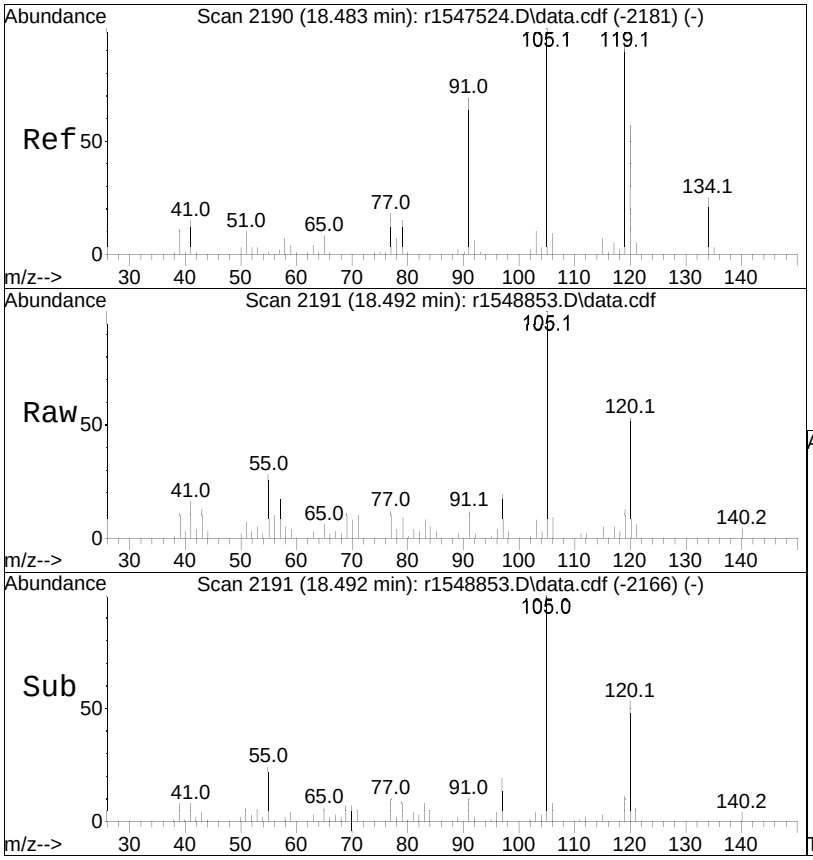


#97
1,3,5-trimethylbenzene
Concen: 0.07 ppbV
RT: 18.150 min Scan# 2152
Delta R.T. 0.008 min
Lab File: r1548853.D
Acq: 18 Jun 2024 9:50 PM

Tgt Ion:105 Resp: 7512

Ion	Ratio	Lower	Upper
105	100		
120	58.2	44.2	66.2
91	13.6	8.0	12.0#

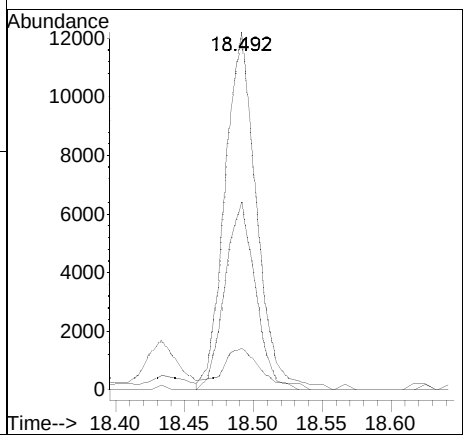


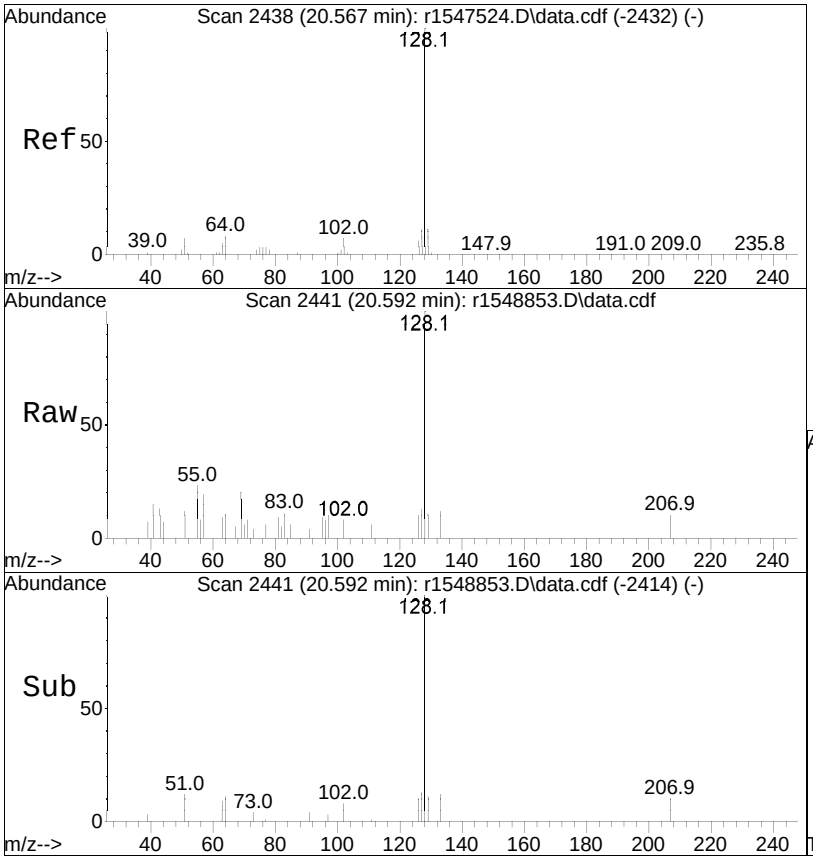


#99
1,2,4-trimethylbenzene
Concen: 0.21 ppbV
RT: 18.492 min Scan# 2191
Delta R.T. 0.008 min
Lab File: r1548853.D
Acq: 18 Jun 2024 9:50 PM

Tgt Ion:105 Resp: 19427

Ion	Ratio	Lower	Upper
105	100		
120	52.6	45.4	68.2
91	11.6	55.0	82.6#

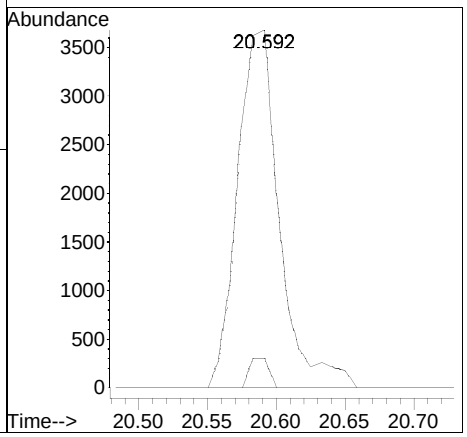




#116
naphthalene
Concen: 0.06 ppbV
RT: 20.592 min Scan# 2441
Delta R.T. 0.025 min
Lab File: r1548853.D
Acq: 18 Jun 2024 9:50 PM

Tgt Ion:128 Resp: 7723

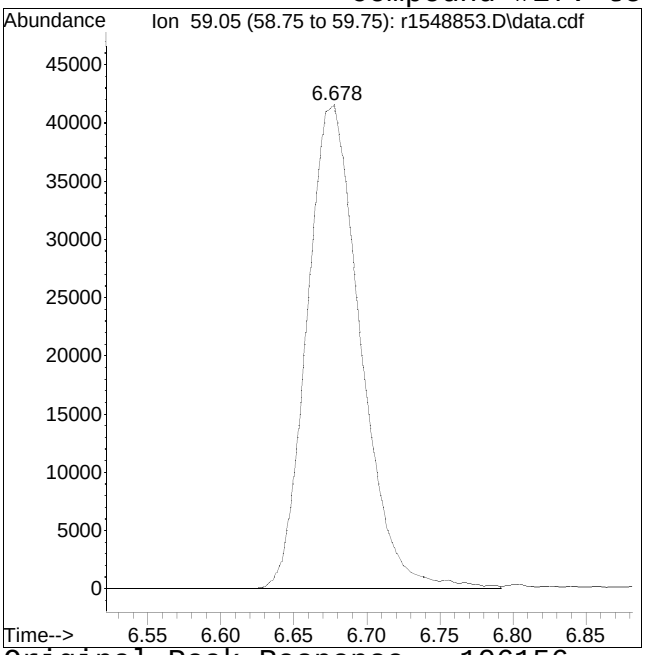
Ion	Ratio	Lower	Upper
128	100		
102	8.3	5.4	8.0#



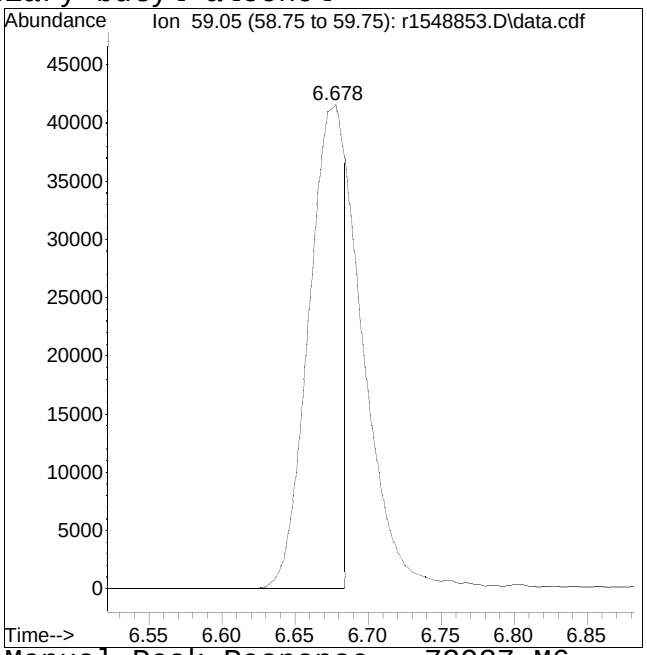
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1548853.D Operator : AIRLAB15:JMB
Date Inj'd : 6/18/2020 0:9: 0 Instrument :
Sample : L2432670-05,3,250,250 Quant Date : 6/19/2024 7:06 am

Compound #27: tertiary butyl alcohol



Original Peak Response = 106156



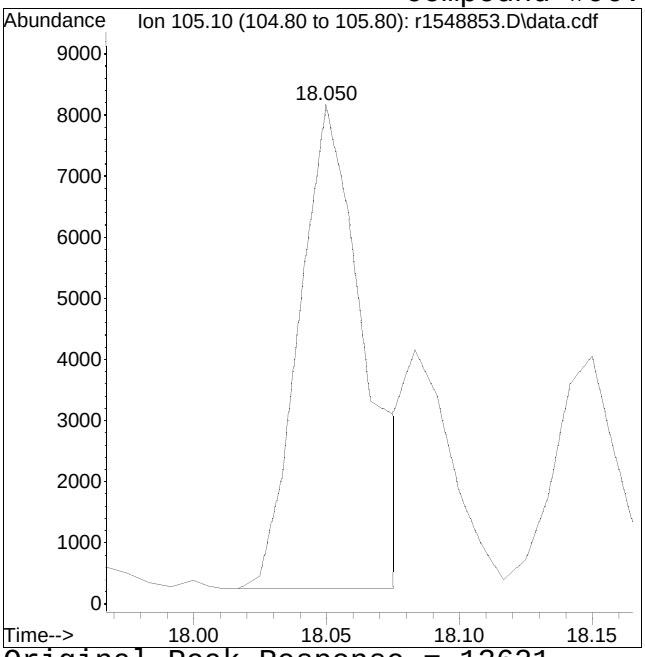
Manual Peak Response = 72937 M6

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

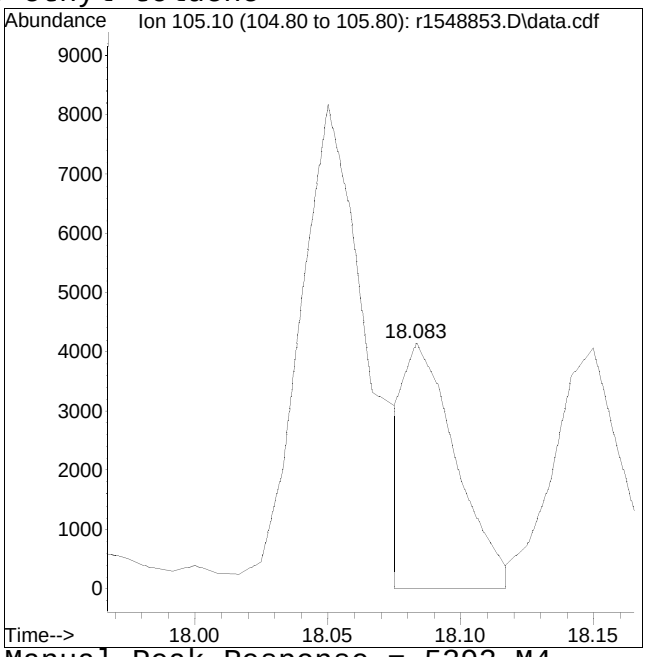
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1548853.D Operator : AIRLAB15:JMB
Date Inj'd : 6/18/2020 0:9: 0 Instrument :
Sample : L2432670-05,3,250,250 Quant Date : 6/19/2024 7:06 am

Compound #96: 4-ethyl toluene



Original Peak Response = 13621



Manual Peak Response = 5393 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548854.D
Acq On : 18 Jun 2024 10:27 PM
Operator : AIRLAB15:JMB
Sample : L2432670-06,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:07:28 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618T\r1548845.D
Sub List : TO15-NY+NAPH-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.142	49	286720	10.000	ppbV	0.02
Standard Area = 309658			Recovery =	92.59%		
43) 1,4-difluorobenzene	11.373	114	750850	10.000	ppbV	0.03
Standard Area = 833704			Recovery =	90.06%		
67) chlorobenzene-D5	16.058	54	132385	10.000	ppbV	0.02
Standard Area = 146665			Recovery =	90.26%		
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.018	85	14115	0.455	ppbV	100
6) chloromethane	4.180	50	7525	0.638	ppbV	99
7) Freon-114	4.294		0	N.D.		
10) 1,3-butadiene	4.558		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.170	31	2779277	295.872	ppbV	93
17) vinyl bromide	5.367		0	N.D.		
19) acetone	5.683	43	12008477	633.830	ppbV	98
21) trichlorofluoromethane	5.870	101	5155	0.203	ppbV	97
22) isopropyl alcohol	5.993	45	85096	3.660	ppbV	98
27) tertiary butyl alcohol	0.000		0	N.D.	d	
28) methylene chloride	6.726	49	6365	0.299	ppbV	91
29) 3-chloropropene	6.768		0	N.D.		
30) carbon disulfide	7.032	76	4583	0.085	ppbV #	30
31) Freon 113	7.020	101	2407	0.063	ppbV #	84
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	8.075		0	N.D.		
36) 2-butanone	8.450	43	80294	1.892	ppbV	96
38) Ethyl Acetate	9.242	61	1794	0.220	ppbV #	22
39) chloroform	9.292		0	N.D.		
40) Tetrahydrofuran	9.750	42	9703	0.361	ppbV	93
42) 1,2-dichloroethane	10.133		0	N.D.		
44) hexane	9.200	57	4689	0.143	ppbV #	34
50) benzene	10.953	78	15470	0.267	ppbV #	92
53) cyclohexane	11.273	56	3542M4	0.101	ppbV	
56) 1,2-dichloropropane	0.000		0	N.D.		

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548854.D
Acq On : 18 Jun 2024 10:27 PM
Operator : AIRLAB15:JMB
Sample : L2432670-06,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:07:28 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618T\r1548845.D
Sub List : TO15-NY+NAPH-7-SIM - .

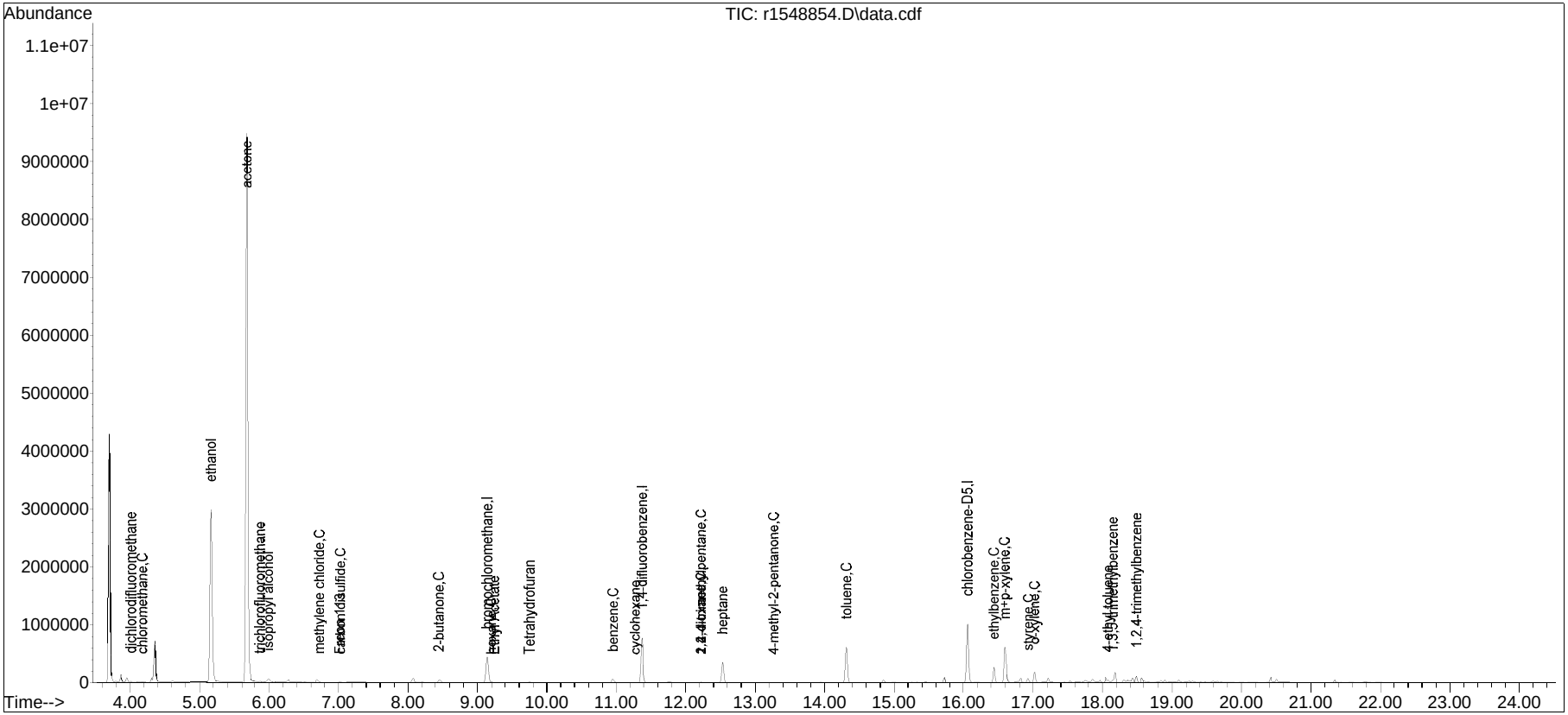
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57)	bromodichloromethane	0.000		0	N.D.		
58)	1,4-dioxane	12.220	88	768	0.058	ppbV #	74
60)	2,2,4-trimethylpentane	12.220	57	7350	0.067	ppbV	94
62)	heptane	12.533	43	178277	4.877	ppbV	97
63)	cis-1,3-dichloropropene	0.000		0	N.D.		
64)	4-methyl-2-pentanone	13.267	43	2392	0.057	ppbV #	73
65)	trans-1,3-dichloropropene	0.000		0	N.D.		
66)	1,1,2-trichloroethane	0.000		0	N.D.		
68)	toluene	14.317	91	514997	6.179	ppbV	98
72)	2-hexanone	14.583		0	N.D.		
74)	dibromochloromethane	0.000		0	N.D.		
75)	1,2-dibromoethane	0.000		0	N.D.		
80)	chlorobenzene	16.108		0	N.D.		
81)	ethylbenzene	16.442	91	212033	1.985	ppbV	96
83)	m+p-xylene	16.592	91	525369	6.283	ppbV	98
84)	bromoform	16.683		0	N.D.		
85)	styrene	16.933	104	34190	0.520	ppbV	97
86)	1,1,2,2-tetrachloroethane	16.950		0	N.D.		
87)	o-xylene	17.025	91	124144	1.485	ppbV	93
96)	4-ethyl toluene	18.083	105	18526M4	0.168	ppbV	
97)	1,3,5-trimethylbenzene	18.150	105	23167	0.217	ppbV	94
99)	1,2,4-trimethylbenzene	18.492	105	55160	0.608	ppbV #	57
101)	Benzyl Chloride	18.550		0	N.D.		
102)	1,3-dichlorobenzene	18.683		0	N.D.		
103)	1,4-dichlorobenzene	18.683		0	N.D.		
107)	1,2-dichlorobenzene	0.000		0	N.D.		
115)	1,2,4-trichlorobenzene	0.000		0	N.D.		
116)	naphthalene	20.592		0	N.D.		
119)	hexachlorobutadiene	0.000		0	N.D.		

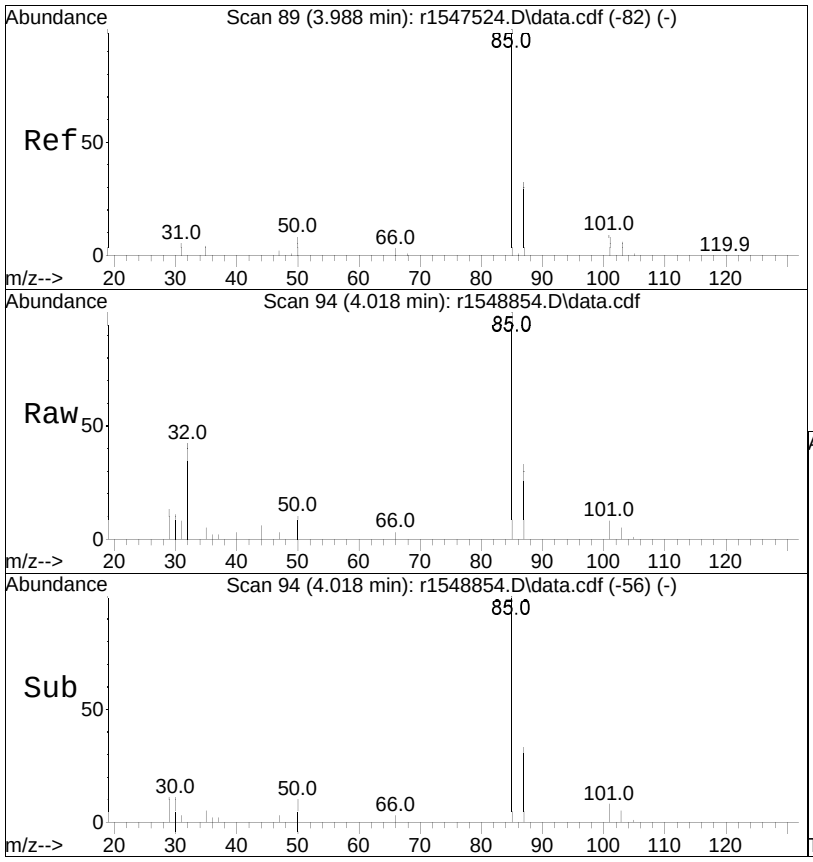
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY+NAPH-7-SIM - .ab15\2024\06\0618T\r1548845.D

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548854.D
Acq On : 18 Jun 2024 10:27 PM
Operator : AIRLAB15:JMB
Sample : L2432670-06,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:07:28 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

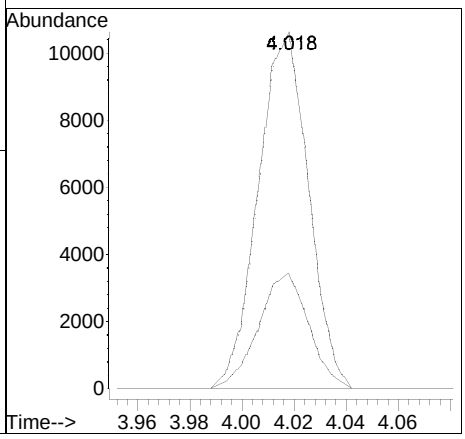


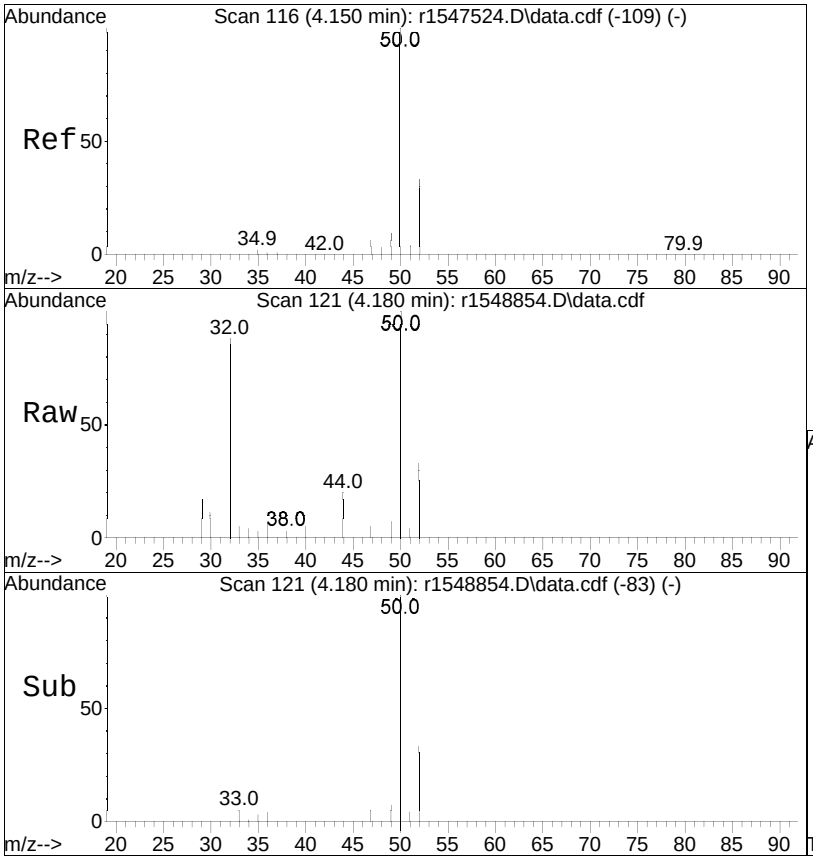


#5
dichlorodifluoromethane
Concen: 0.46 ppbV
RT: 4.018 min Scan# 94
Delta R.T. 0.030 min
Lab File: r1548854.D
Acq: 18 Jun 2024 10:27 PM

Tgt Ion: 85 Resp: 14115

Ion	Ratio	Lower	Upper
85	100		
87	32.5	25.8	38.8

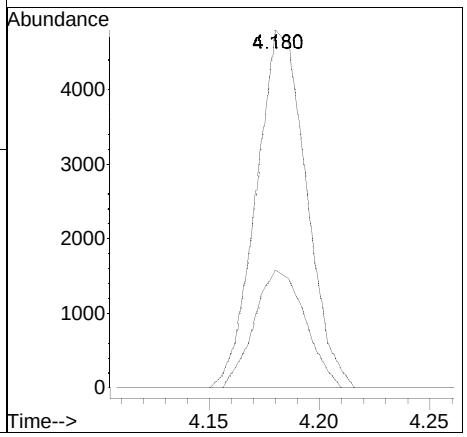


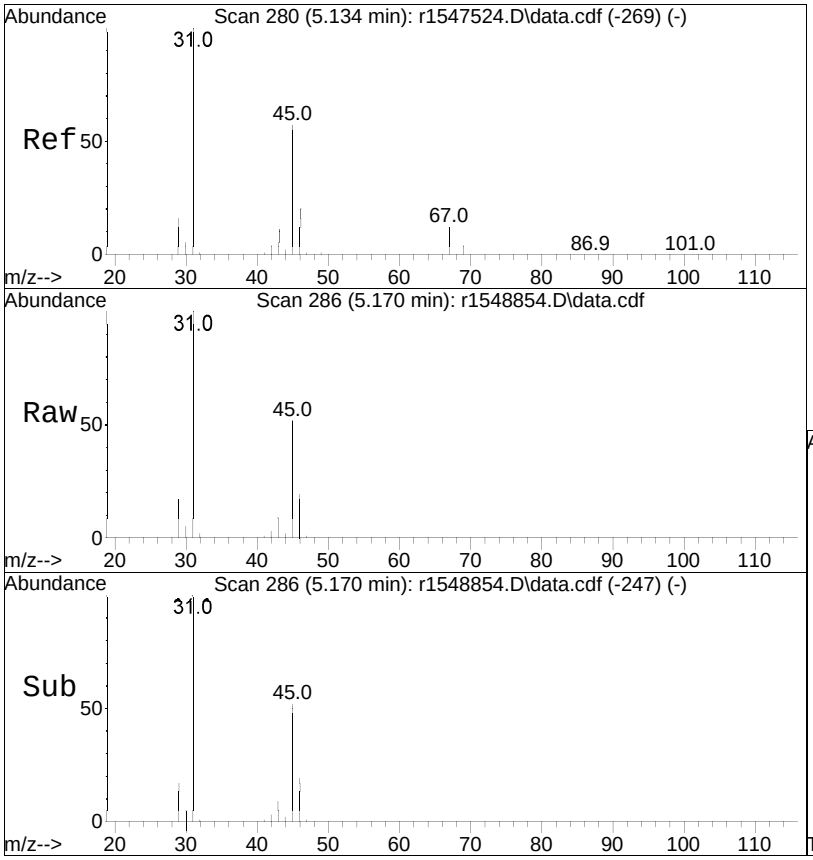


#6
chloromethane
Concen: 0.64 ppbV
RT: 4.180 min Scan# 121
Delta R.T. 0.030 min
Lab File: r1548854.D
Acq: 18 Jun 2024 10:27 PM

Tgt Ion: 50 Resp: 7525

Ion	Ratio	Lower	Upper
50	100		
52	32.9	26.0	39.0

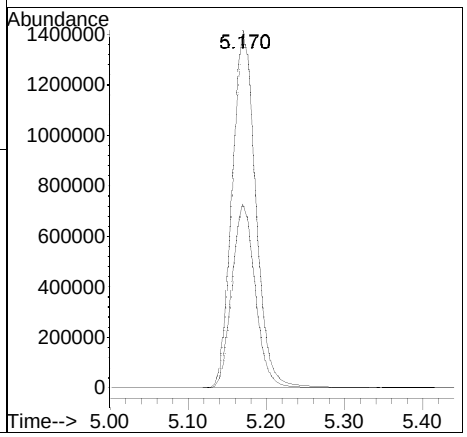


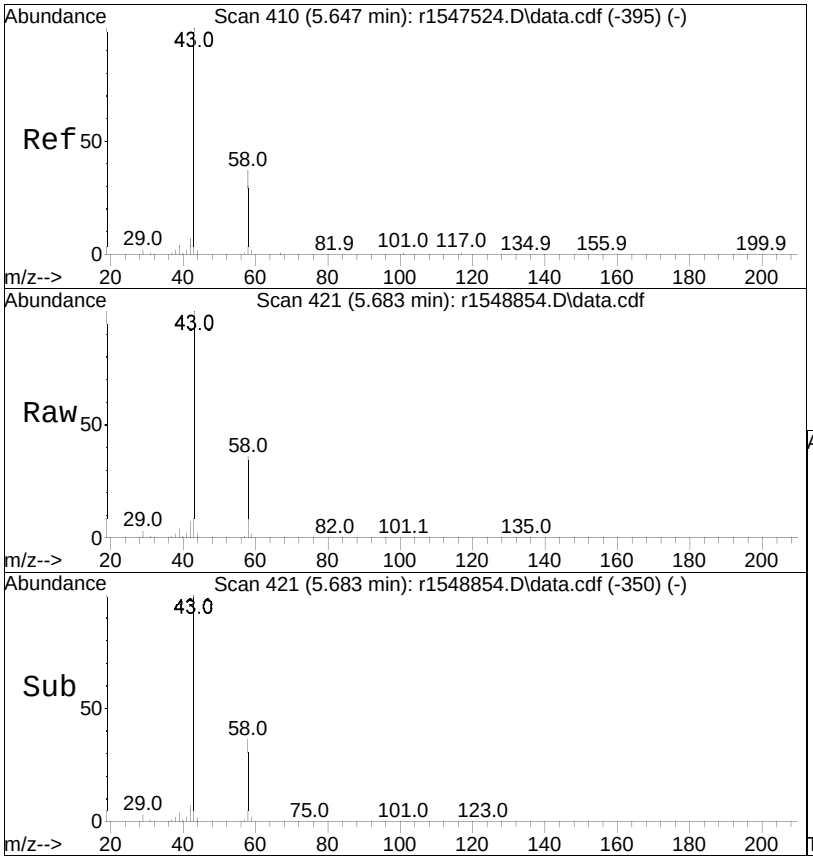


#15
ethanol
Concen: 295.87 ppbV
RT: 5.170 min Scan# 286
Delta R.T. 0.036 min
Lab File: r1548854.D
Acq: 18 Jun 2024 10:27 PM

Tgt Ion: 31 Resp: 2779277

Ion	Ratio	Lower	Upper
31	100		
45	51.7	45.7	68.5

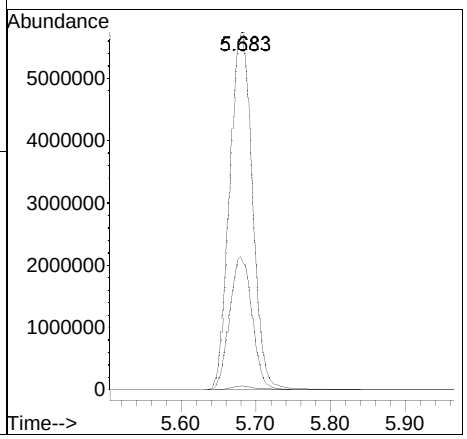


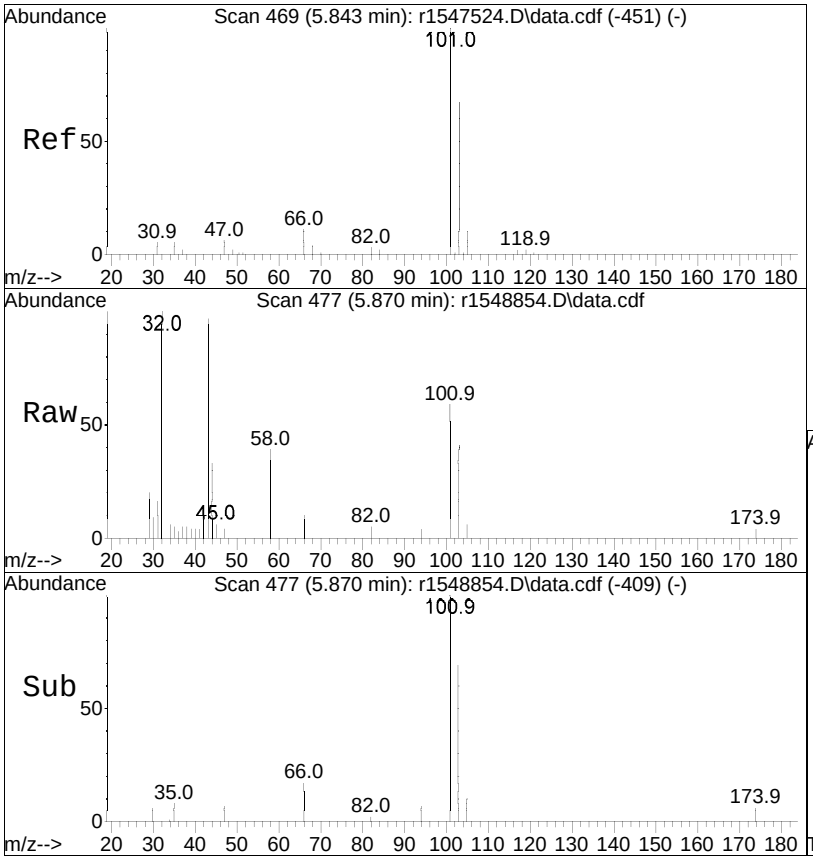


#19
acetone
Concen: 633.83 ppbV
RT: 5.683 min Scan# 421
Delta R.T. 0.037 min
Lab File: r1548854.D
Acq: 18 Jun 2024 10:27 PM

Tgt Ion: 43 Resp:12008477

Ion	Ratio	Lower	Upper
43	100		
58	35.7	29.4	44.0
57	1.0	0.7	1.1

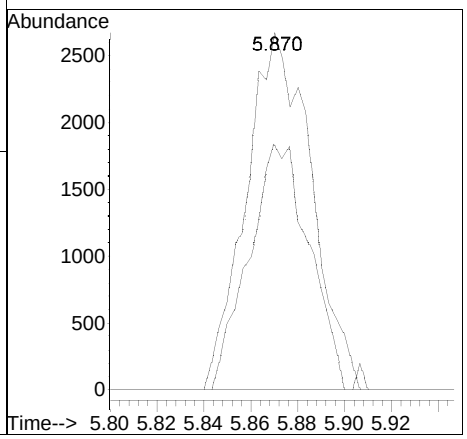


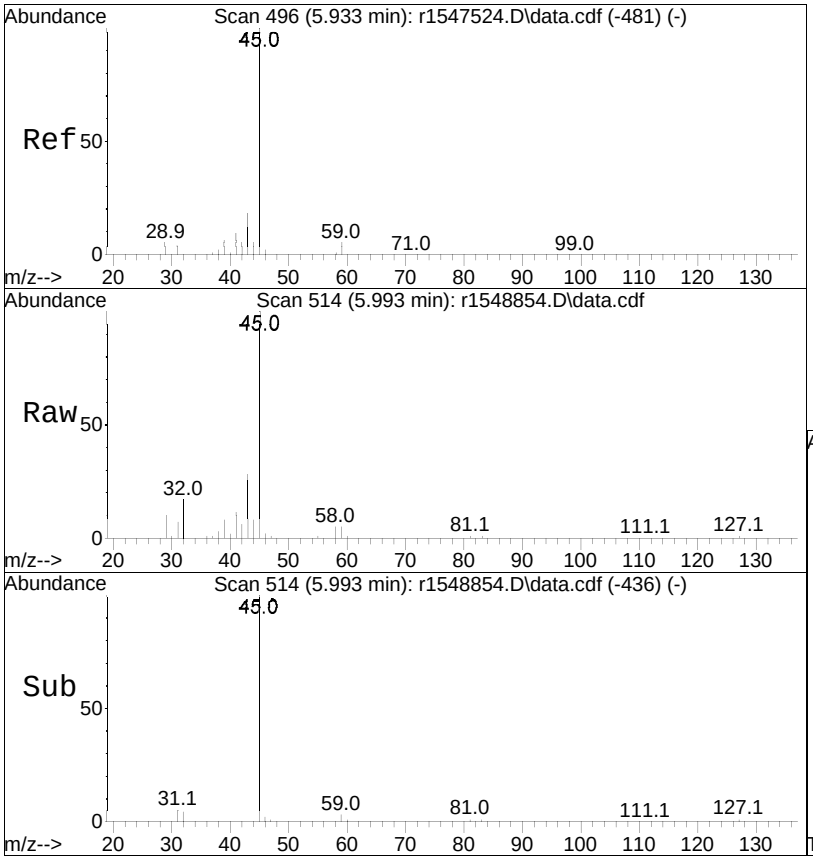


#21
trichlorofluoromethane
Concen: 0.20 ppbV
RT: 5.870 min Scan# 477
Delta R.T. 0.027 min
Lab File: r1548854.D
Acq: 18 Jun 2024 10:27 PM

Tgt Ion:101 Resp: 5155

Ion	Ratio	Lower	Upper
101	100		
103	68.9	53.4	80.0

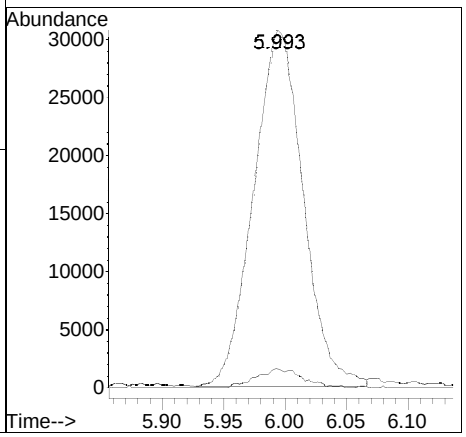


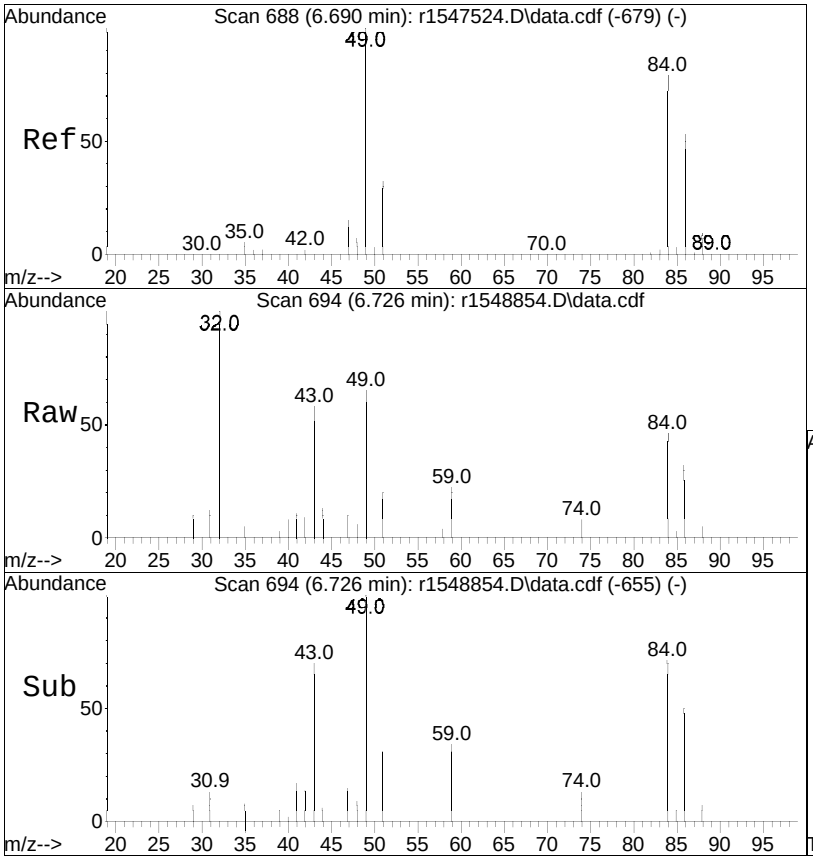


#22
isopropyl alcohol
Concen: 3.66 ppbV
RT: 5.993 min Scan# 514
Delta R.T. 0.060 min
Lab File: r1548854.D
Acq: 18 Jun 2024 10:27 PM

Tgt Ion: 45 Resp: 85096

Ion	Ratio	Lower	Upper
45	100		
59	5.2	3.8	5.6

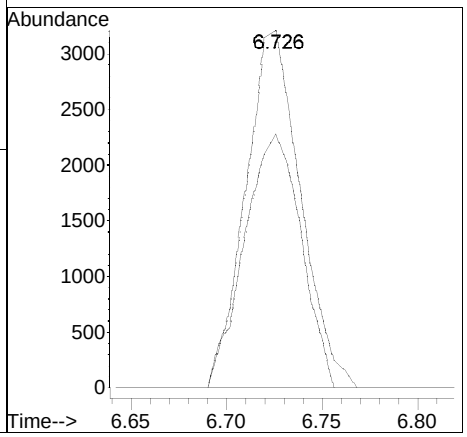


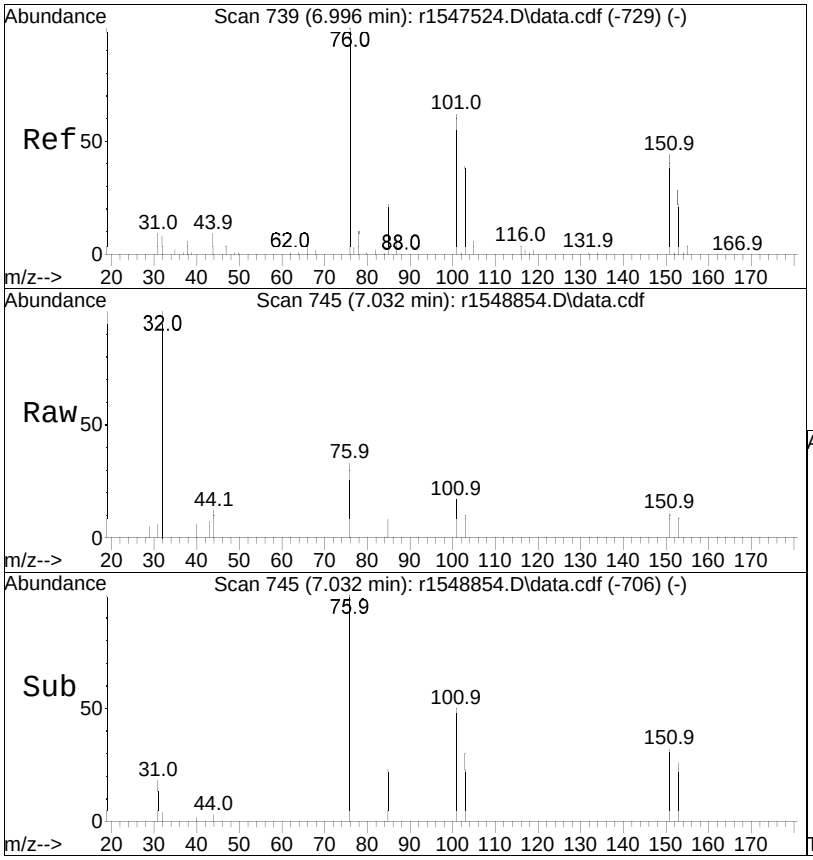


#28
methylene chloride
Concen: 0.30 ppbV
RT: 6.726 min Scan# 694
Delta R.T. 0.036 min
Lab File: r1548854.D
Acq: 18 Jun 2024 10:27 PM

Tgt Ion: 49 Resp: 6365

Ion	Ratio	Lower	Upper
49	100		
84	71.0	63.4	95.2

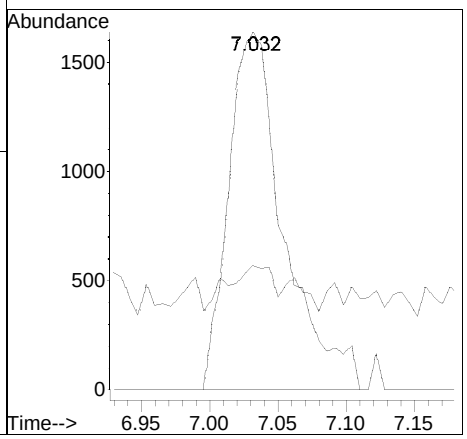


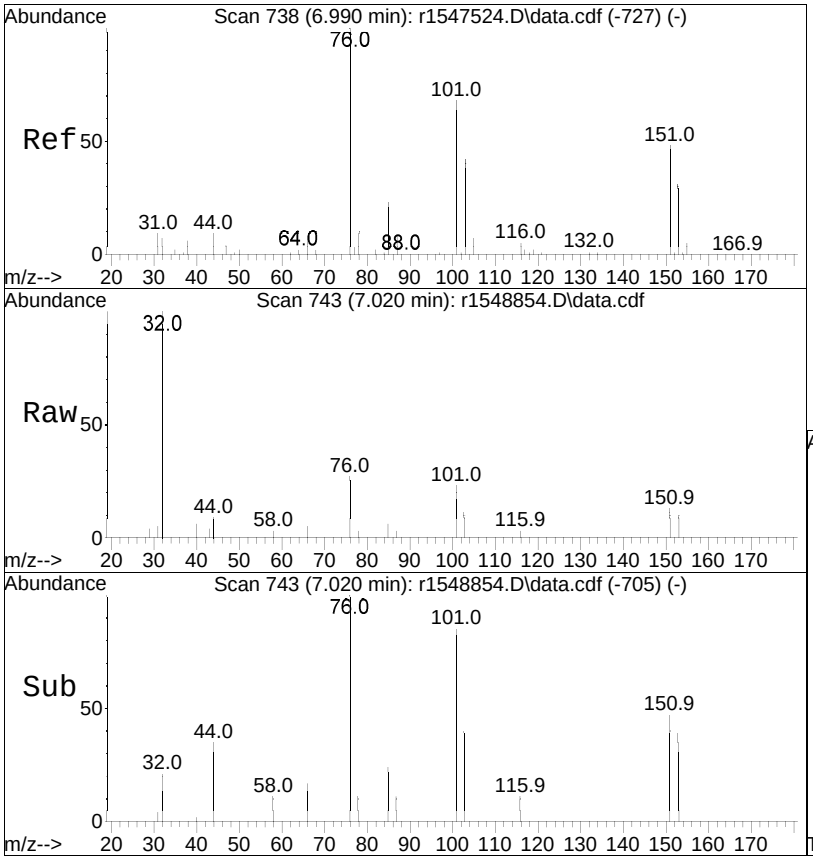


#30
carbon disulfide
Concen: 0.08 ppbV
RT: 7.032 min Scan# 745
Delta R.T. 0.036 min
Lab File: r1548854.D
Acq: 18 Jun 2024 10:27 PM

Tgt Ion: 76 Resp: 4583

Ion	Ratio	Lower	Upper
76	100		
44	34.8	7.5	11.3#

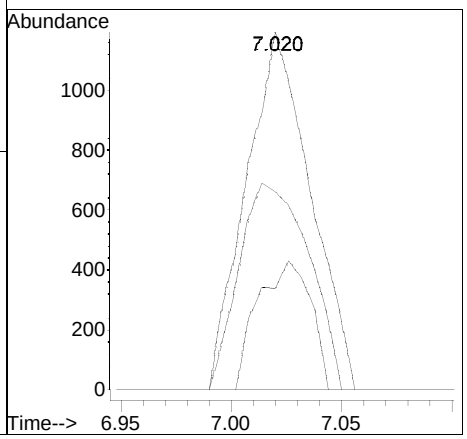


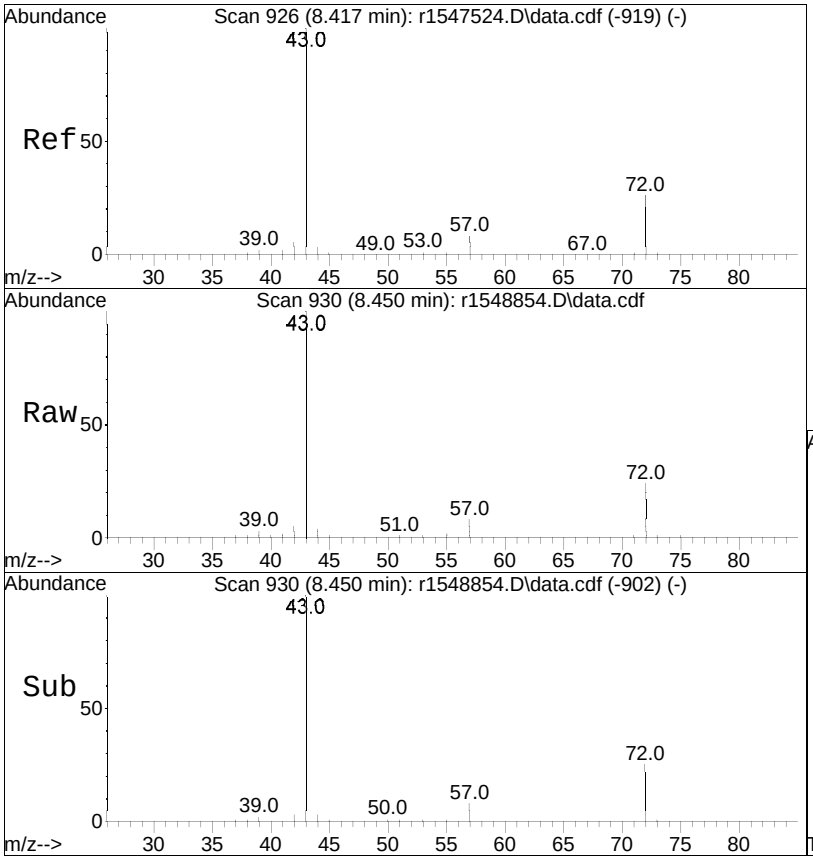


#31
Freon 113
Concen: 0.06 ppbV
RT: 7.020 min Scan# 743
Delta R.T. 0.030 min
Lab File: r1548854.D
Acq: 18 Jun 2024 10:27 PM

Tgt Ion:101 Resp: 2407

Ion	Ratio	Lower	Upper
101	100		
85	28.3	27.6	41.4
151	55.5	56.9	85.3#

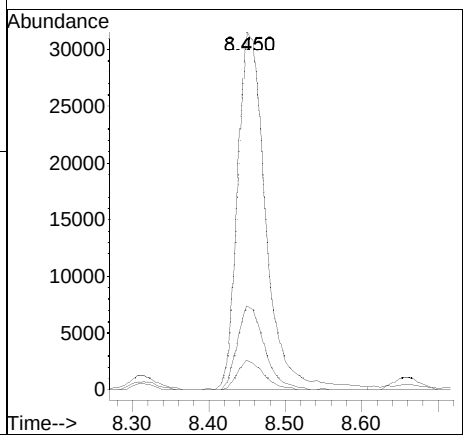


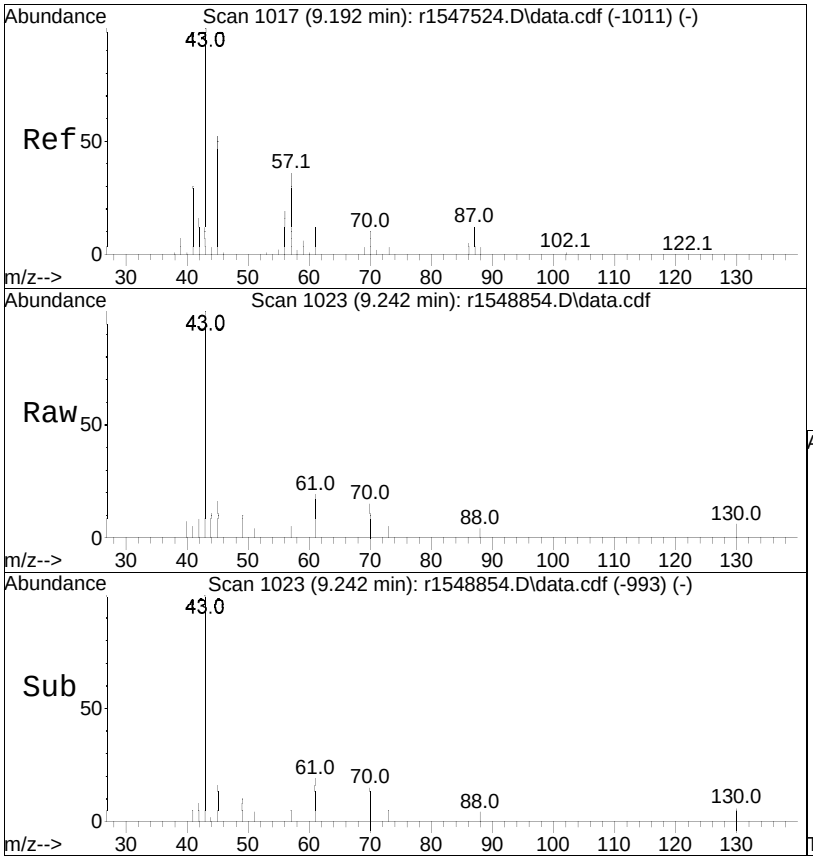


#36
2-butanone
Concen: 1.89 ppbV
RT: 8.450 min Scan# 930
Delta R.T. 0.033 min
Lab File: r1548854.D
Acq: 18 Jun 2024 10:27 PM

Tgt Ion: 43 Resp: 80294

Ion	Ratio	Lower	Upper
43	100		
72	23.5	20.9	31.3
57	8.4	6.6	10.0

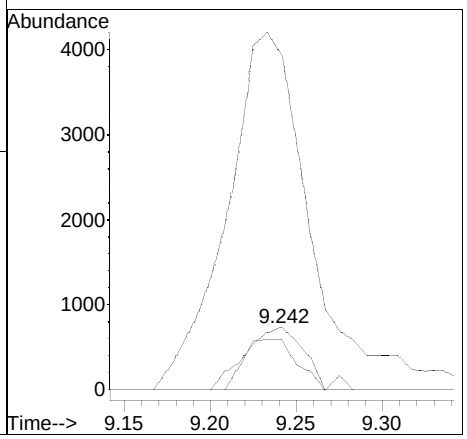


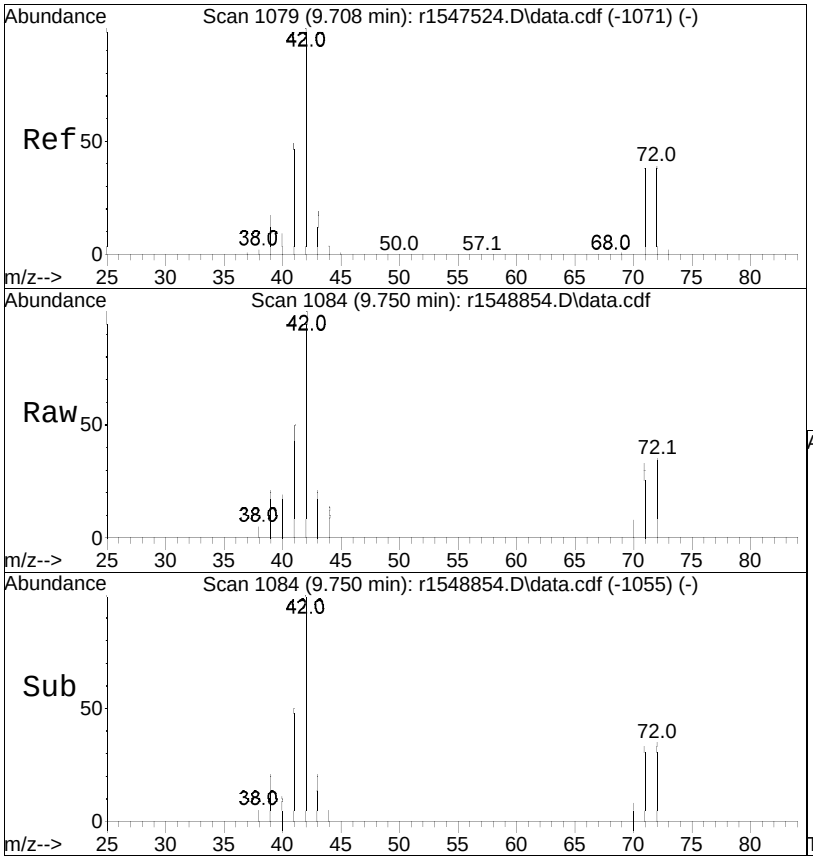


#38
Ethyl Acetate
Concen: 0.22 ppbV
RT: 9.242 min Scan# 1023
Delta R.T. 0.050 min
Lab File: r1548854.D
Acq: 18 Jun 2024 10:27 PM

Tgt Ion: 61 Resp: 1794

Ion	Ratio	Lower	Upper
61	100		
70	79.7	67.9	101.9
43	533.6	703.5	1055.3#

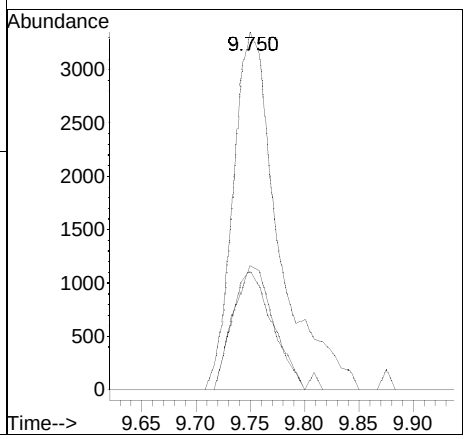


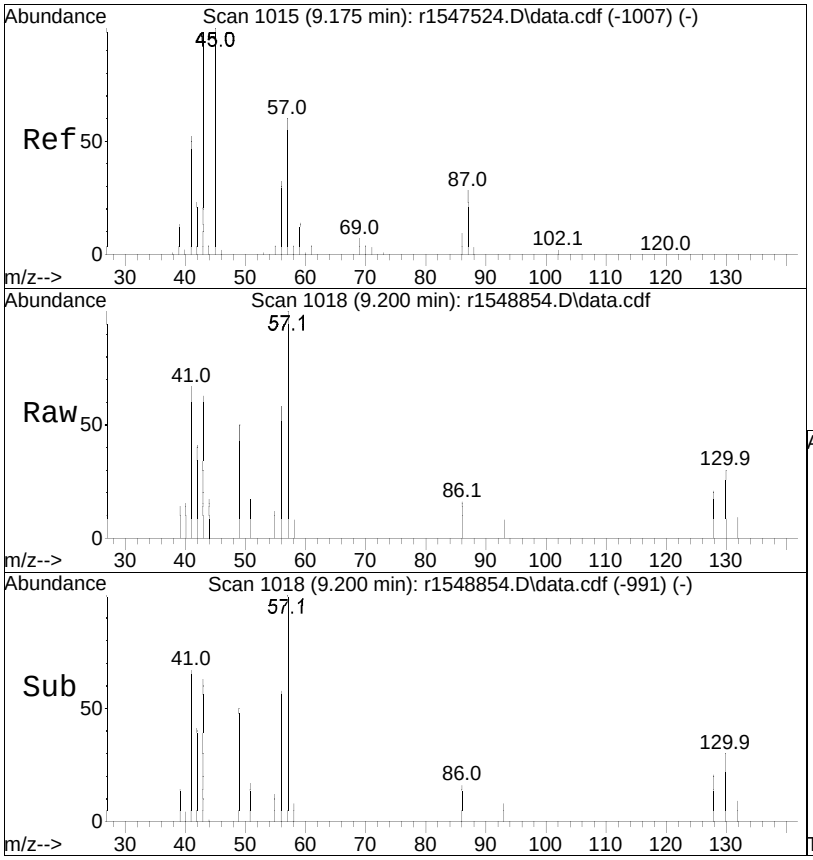


#40
Tetrahydrofuran
Concen: 0.36 ppbV
RT: 9.750 min Scan# 1084
Delta R.T. 0.042 min
Lab File: r1548854.D
Acq: 18 Jun 2024 10:27 PM

Tgt Ion: 42 Resp: 9703

Ion	Ratio	Lower	Upper
42	100		
71	33.4	30.1	45.1
72	34.7	31.4	47.2

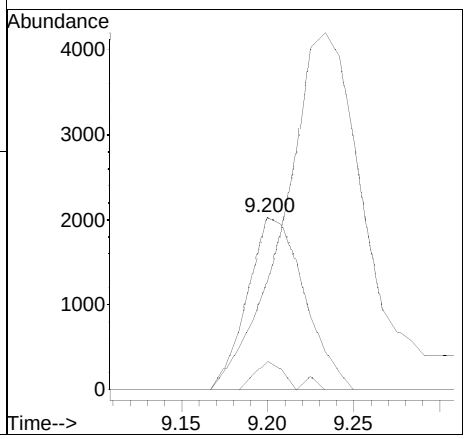


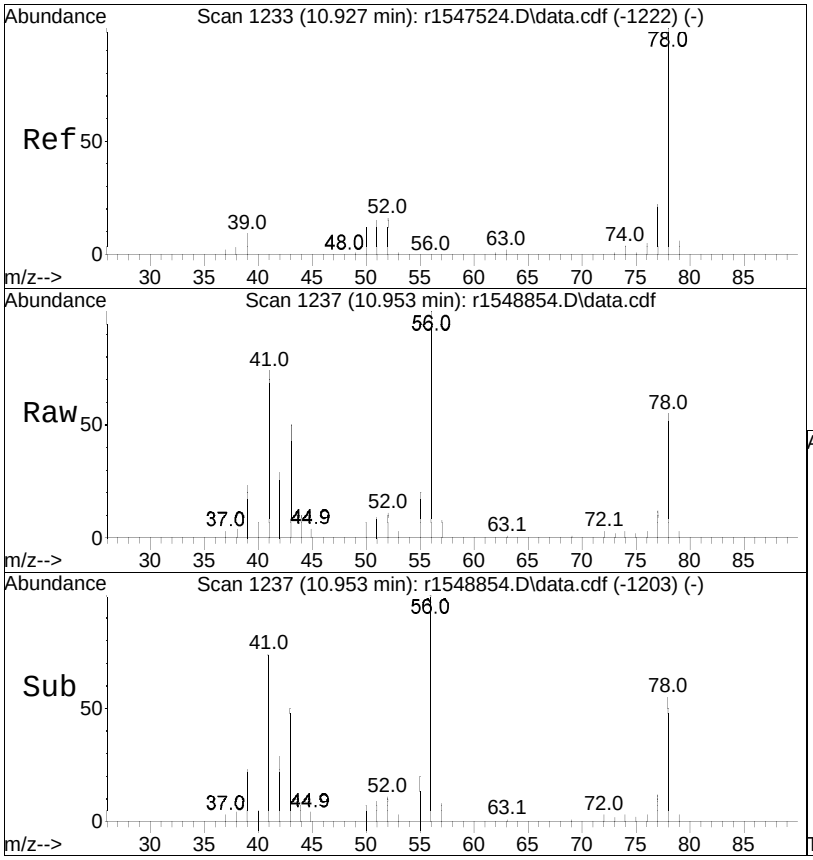


#44
hexane
Concen: 0.14 ppbV
RT: 9.200 min Scan# 1018
Delta R.T. 0.025 min
Lab File: r1548854.D
Acq: 18 Jun 2024 10:27 PM

Tgt Ion: 57 Resp: 4689

Ion	Ratio	Lower	Upper
57	100		
43	62.7	124.6	186.8#
86	16.3	11.5	17.3

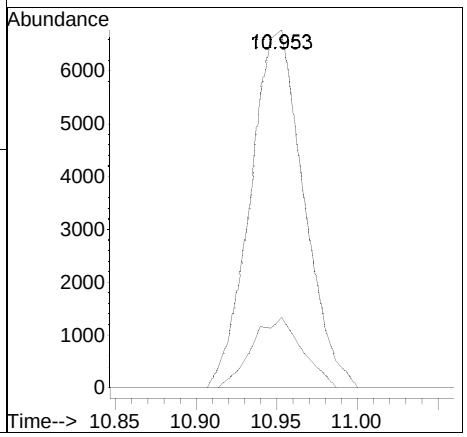


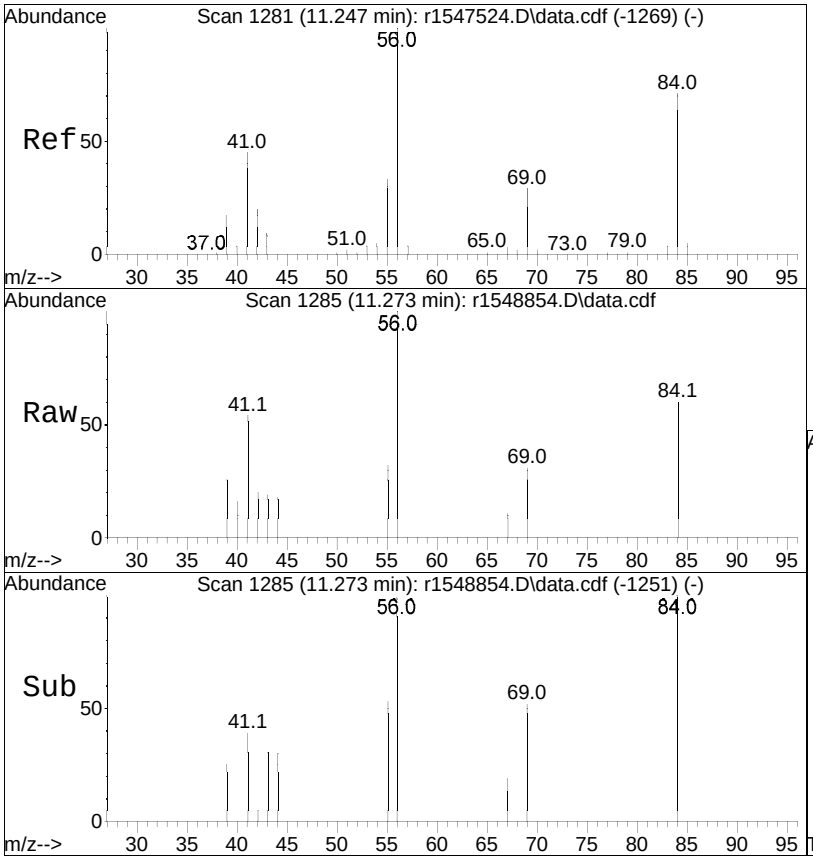


#50
benzene
Concen: 0.27 ppbV
RT: 10.953 min Scan# 1237
Delta R.T. 0.027 min
Lab File: r1548854.D
Acq: 18 Jun 2024 10:27 PM

Tgt Ion: 78 Resp: 15470

Ion	Ratio	Lower	Upper
78	100		
52	19.7	13.0	19.4#

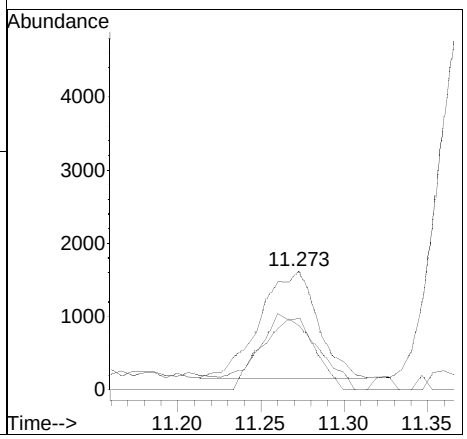


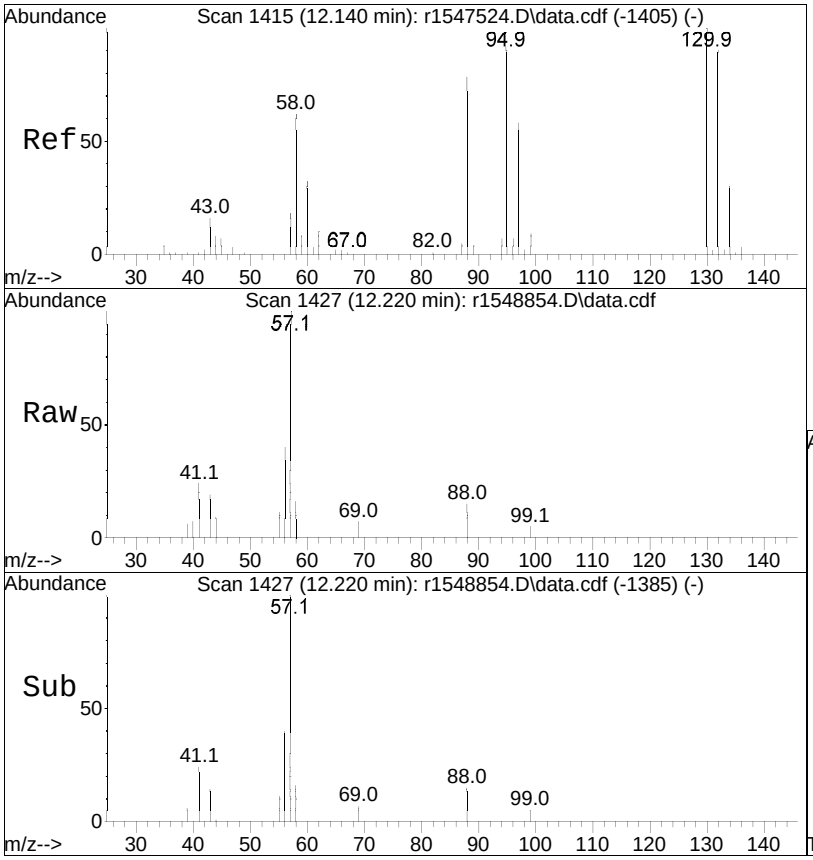


#53
cyclohexane
Concen: 0.10 ppbV m
RT: 11.273 min Scan# 1285
Delta R.T. 0.027 min
Lab File: r1548854.D
Acq: 18 Jun 2024 10:27 PM

Tgt Ion: 56 Resp: 3542

Ion	Ratio	Lower	Upper
56	100		
84	60.4	57.2	85.8
41	53.8	35.9	53.9

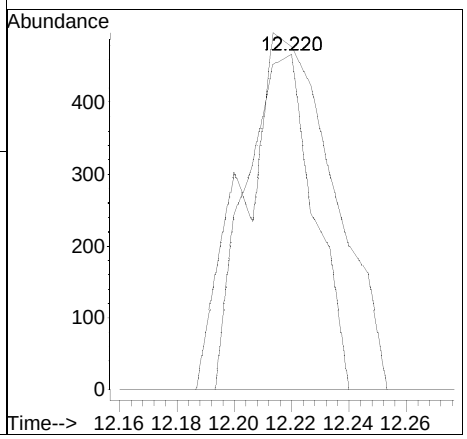


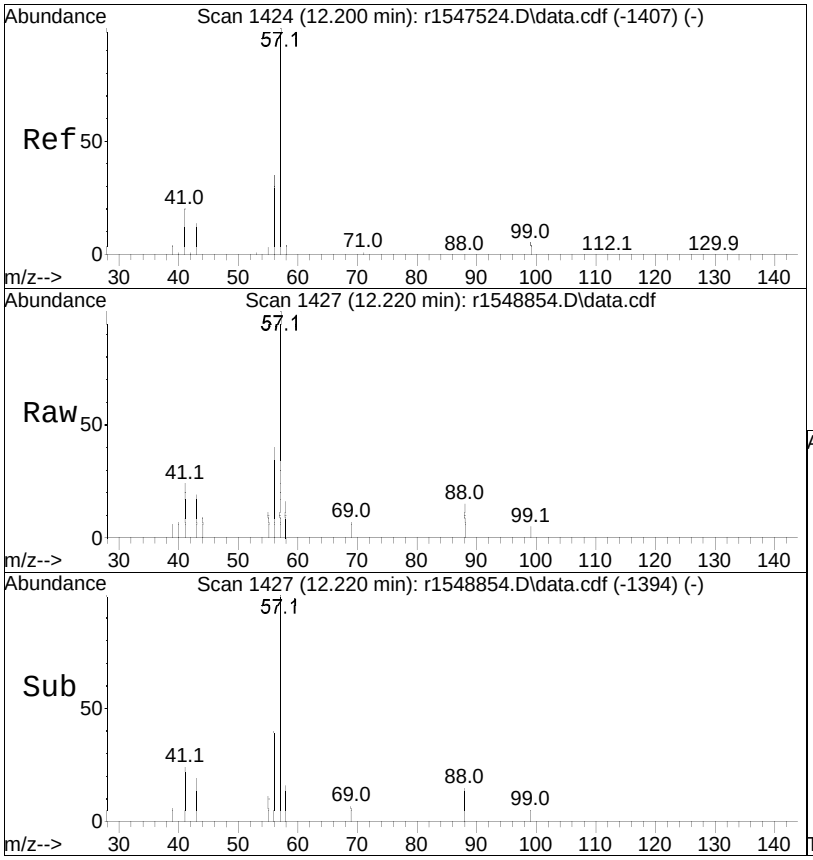


#58
1,4-dioxane
Concen: 0.06 ppbV
RT: 12.220 min Scan# 1427
Delta R.T. 0.080 min
Lab File: r1548854.D
Acq: 18 Jun 2024 10:27 PM

Tgt Ion: 88 Resp: 768

Ion	Ratio	Lower	Upper
88	100		
58	102.4	63.4	95.0#

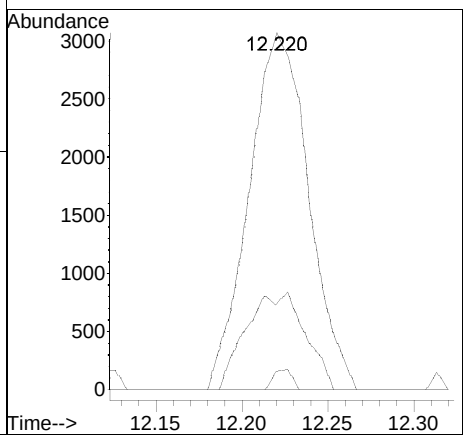


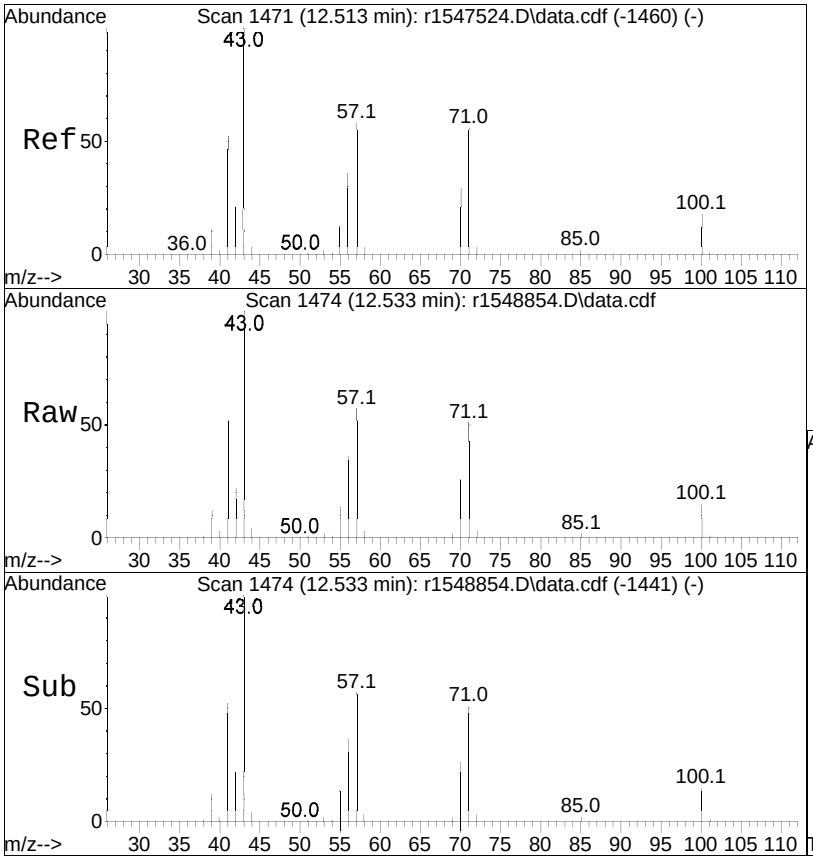


#60
2,2,4-trimethylpentane
Concen: 0.07 ppbV
RT: 12.220 min Scan# 1427
Delta R.T. 0.020 min
Lab File: r1548854.D
Acq: 18 Jun 2024 10:27 PM

Tgt Ion: 57 Resp: 7350

Ion	Ratio	Lower	Upper
57	100		
99	5.0	4.0	6.0
41	23.8	16.1	24.1

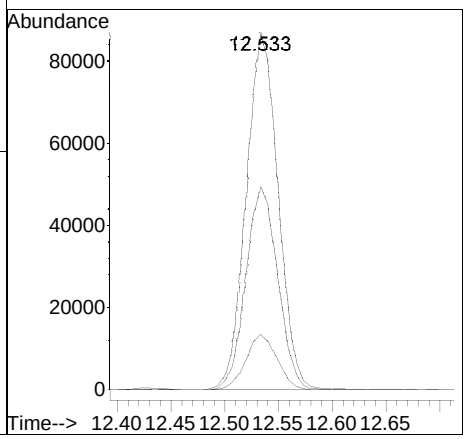


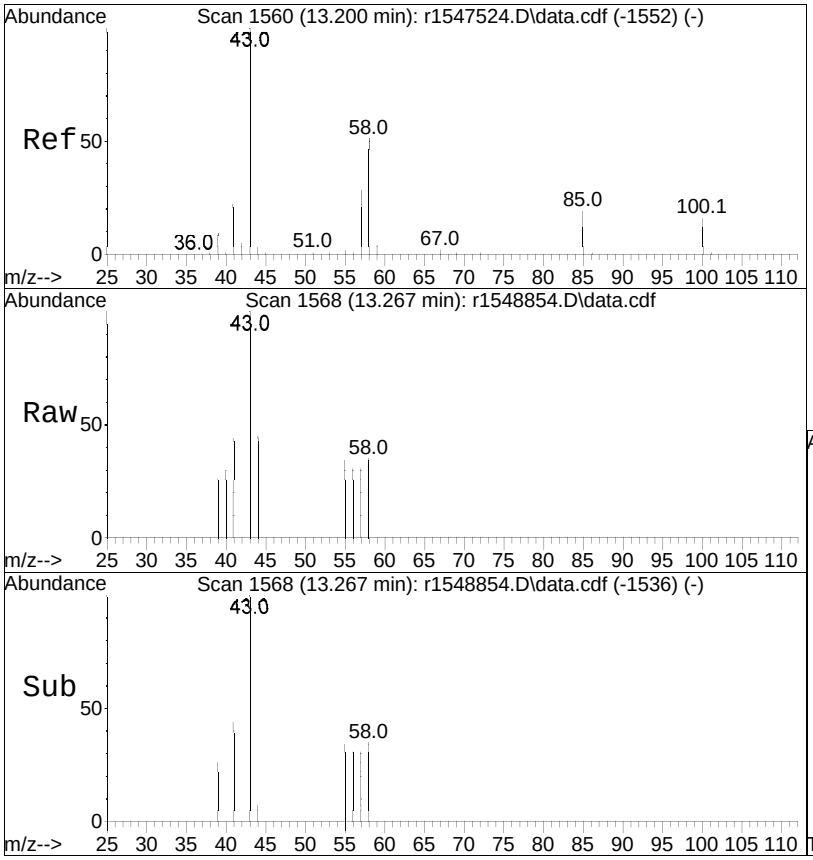


#62
heptane
Concen: 4.88 ppbV
RT: 12.533 min Scan# 1474
Delta R.T. 0.020 min
Lab File: r1548854.D
Acq: 18 Jun 2024 10:27 PM

Tgt Ion: 43 Resp: 178277

Ion	Ratio	Lower	Upper
43	100		
57	56.9	46.6	70.0
100	15.5	14.6	22.0

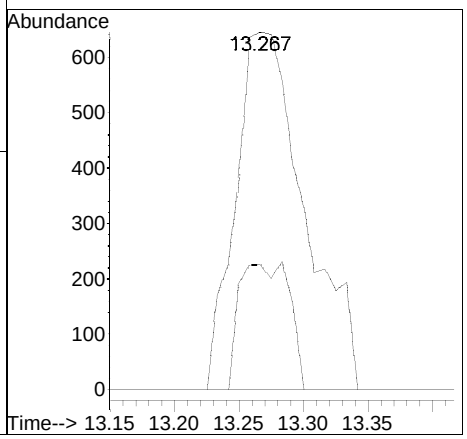


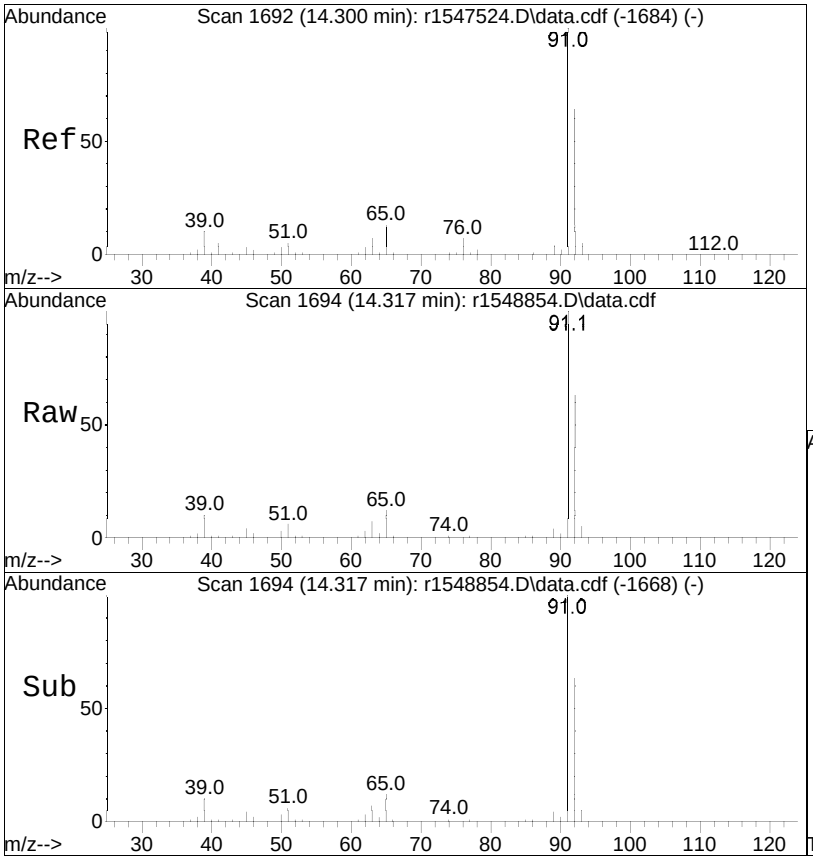


#64
4-methyl-2-pentanone
Concen: 0.06 ppbV
RT: 13.267 min Scan# 1568
Delta R.T. 0.067 min
Lab File: r1548854.D
Acq: 18 Jun 2024 10:27 PM

Tgt Ion: 43 Resp: 2392

Ion	Ratio	Lower	Upper
43	100		
58	35.1	41.0	61.4#
100	0.0	13.0	19.6#

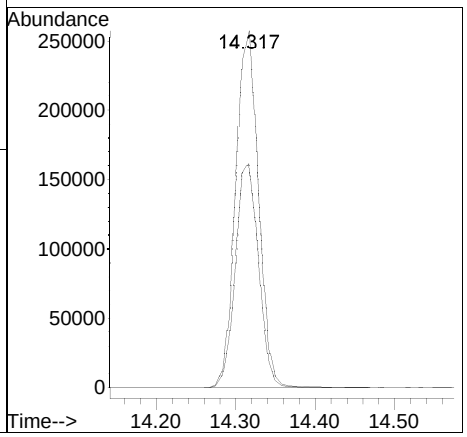


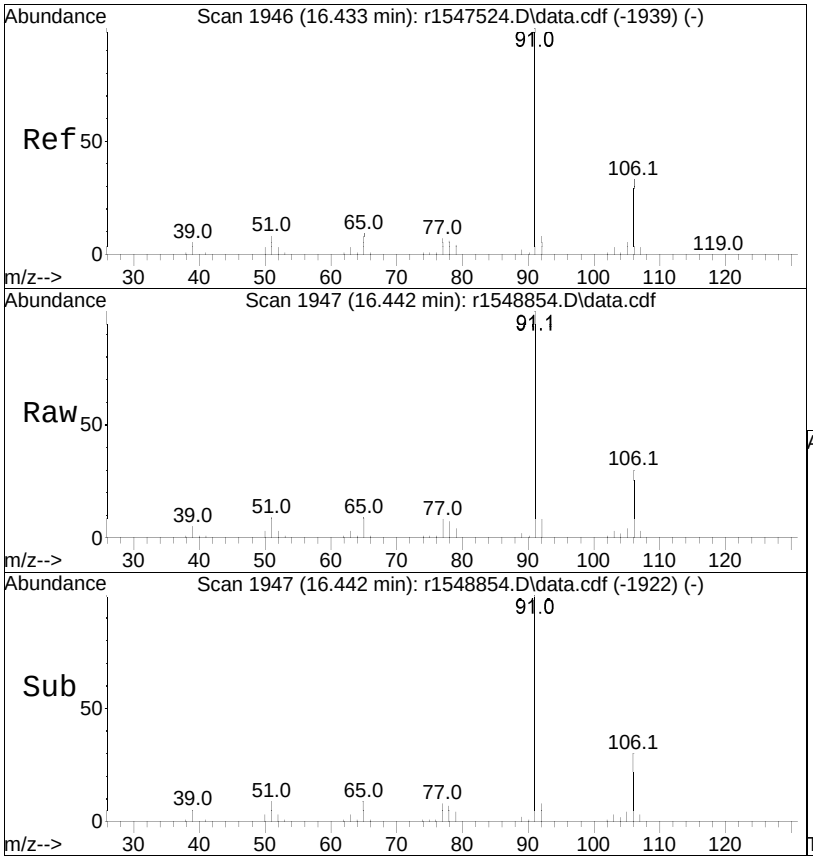


#68
toluene
Concen: 6.18 ppbV
RT: 14.317 min Scan# 1694
Delta R.T. 0.017 min
Lab File: r1548854.D
Acq: 18 Jun 2024 10:27 PM

Tgt Ion: 91 Resp: 514997

Ion	Ratio	Lower	Upper
91	100		
92	62.9	51.6	77.4

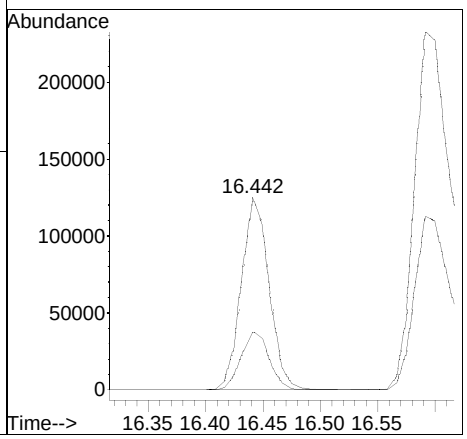


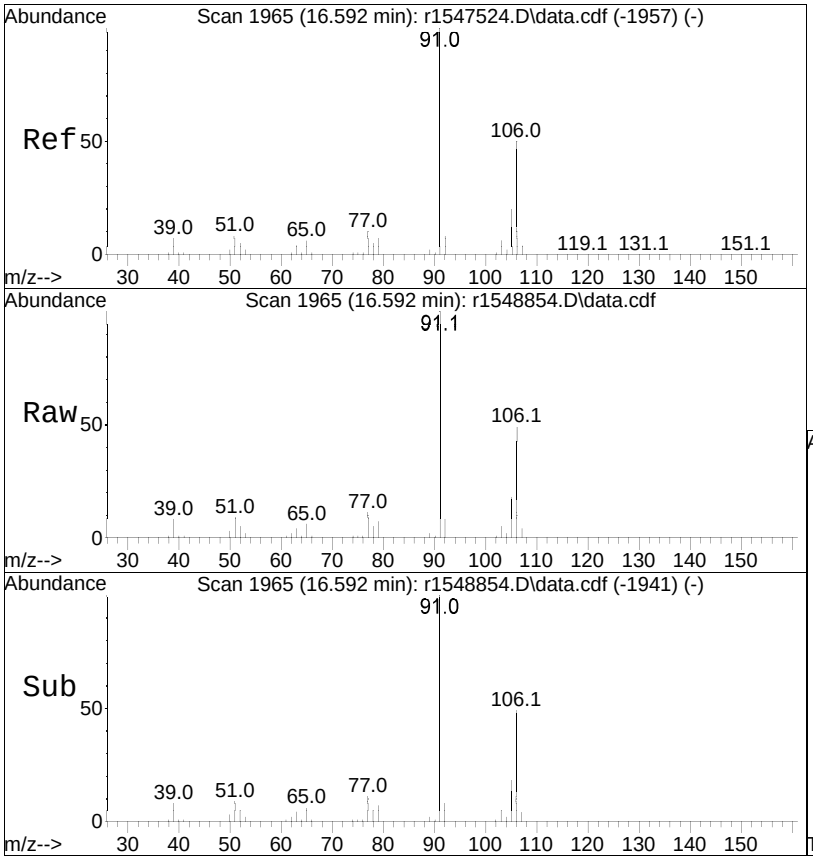


#81
ethylbenzene
Concen: 1.99 ppbV
RT: 16.442 min Scan# 1947
Delta R.T. 0.008 min
Lab File: r1548854.D
Acq: 18 Jun 2024 10:27 PM

Tgt Ion: 91 Resp: 212033

Ion	Ratio	Lower	Upper
91	100		
106	30.1	26.1	39.1

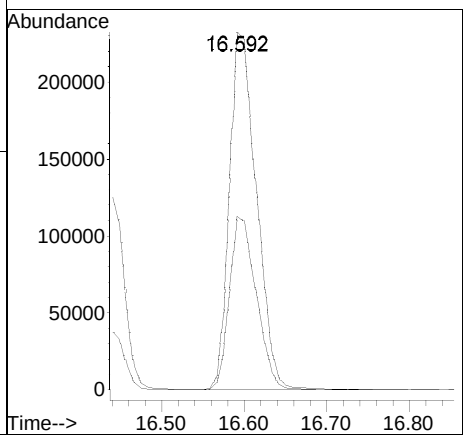


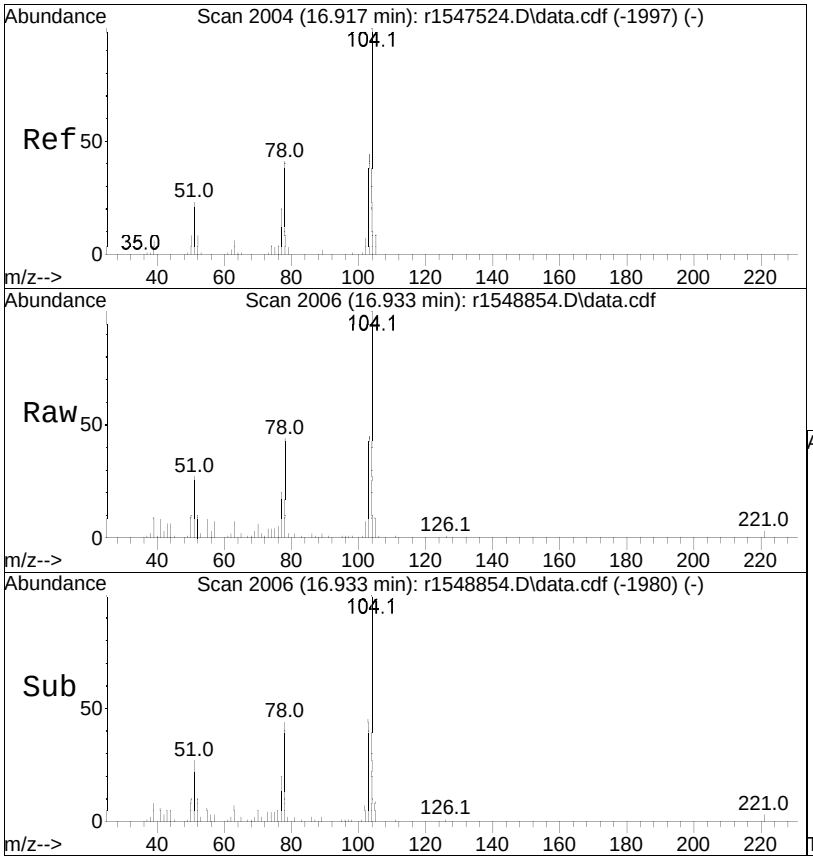


#83
m+p-xylene
Concen: 6.28 ppbV
RT: 16.592 min Scan# 1965
Delta R.T. 0.000 min
Lab File: r1548854.D
Acq: 18 Jun 2024 10:27 PM

Tgt Ion: 91 Resp: 525369

Ion	Ratio	Lower	Upper
91	100		
106	48.6	40.1	60.1

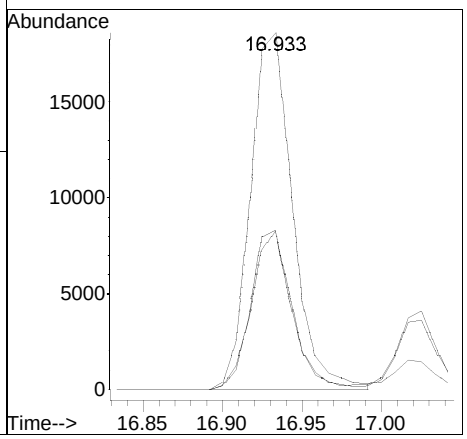


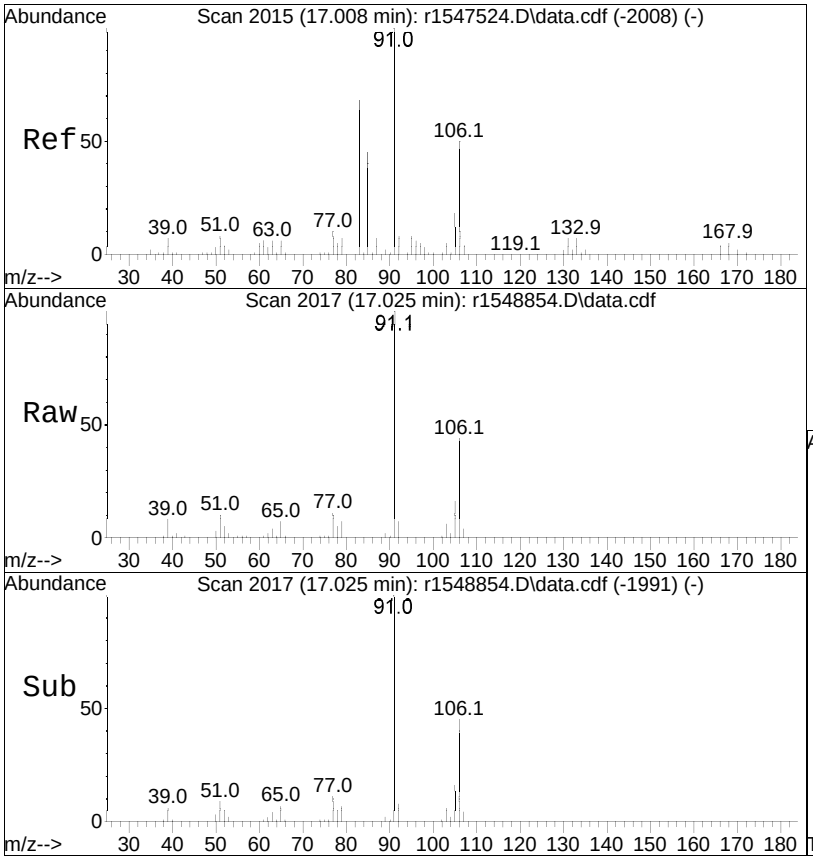


#85
styrene
Concen: 0.52 ppbV
RT: 16.933 min Scan# 2006
Delta R.T. 0.017 min
Lab File: r1548854.D
Acq: 18 Jun 2024 10:27 PM

Tgt Ion:104 Resp: 34190

Ion	Ratio	Lower	Upper
104	100		
103	44.6	35.2	52.8
78	44.4	32.6	48.8

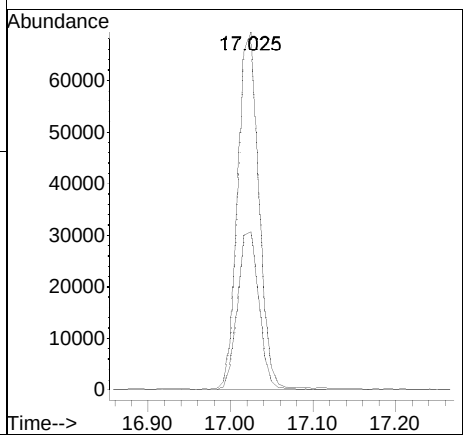


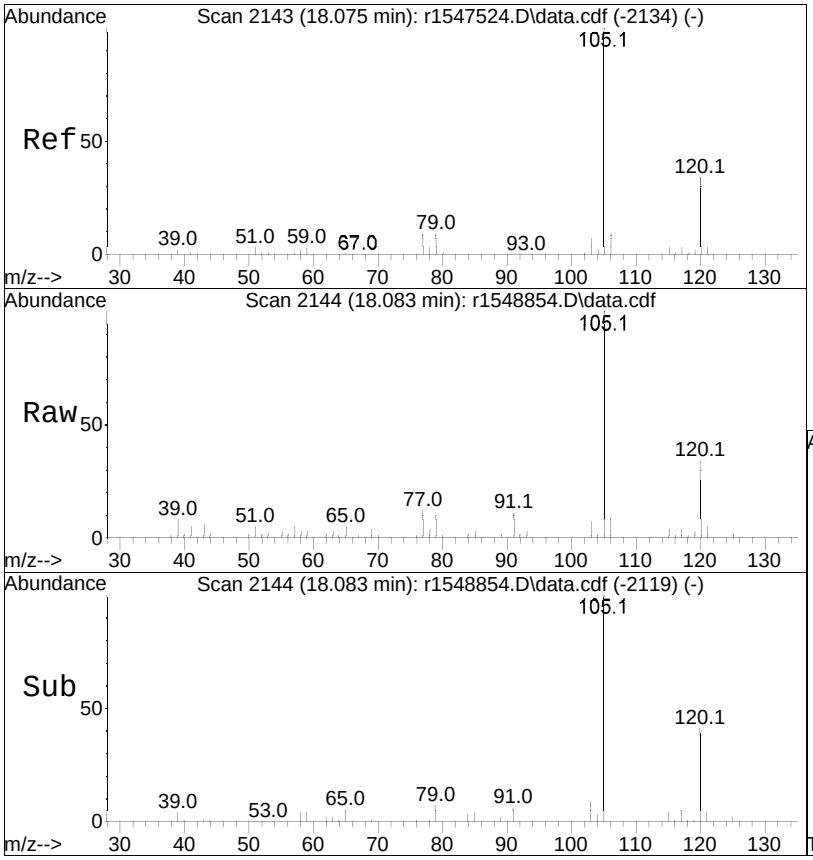


#87
o-xylene
Concen: 1.49 ppbV
RT: 17.025 min Scan# 2017
Delta R.T. 0.017 min
Lab File: r1548854.D
Acq: 18 Jun 2024 10:27 PM

Tgt Ion: 91 Resp: 124144

Ion	Ratio	Lower	Upper
91	100		
106	44.4	39.6	59.4

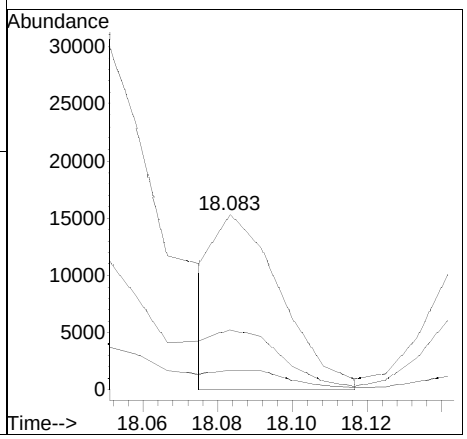


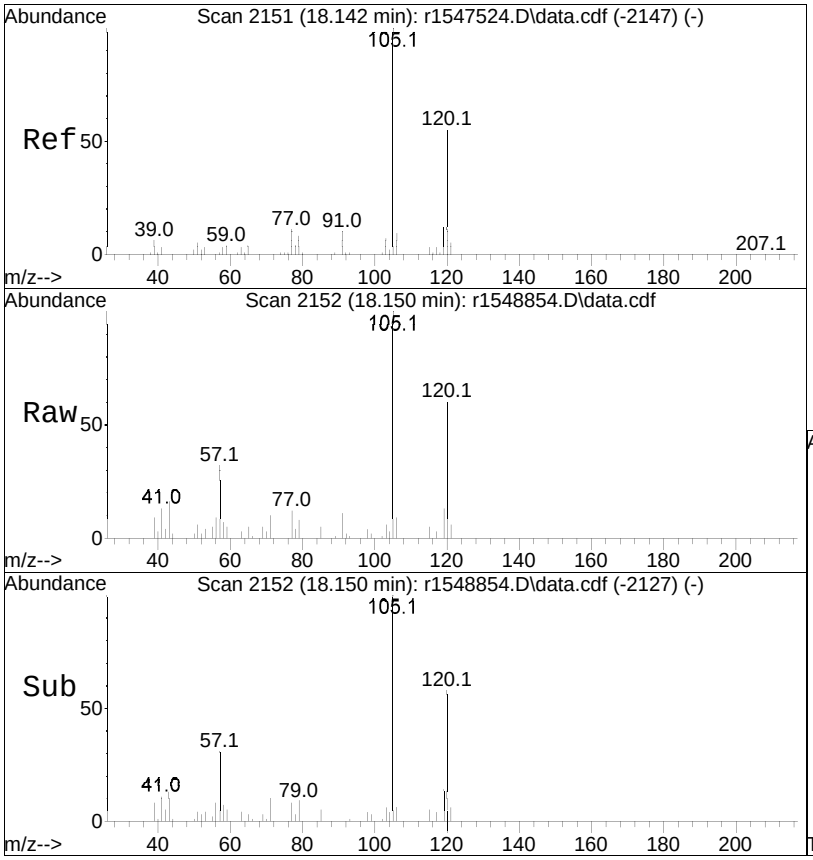


#96
4-ethyl toluene
Concen: 0.17 ppbV m
RT: 18.083 min Scan# 2144
Delta R.T. 0.008 min
Lab File: r1548854.D
Acq: 18 Jun 2024 10:27 PM

Tgt Ion:105 Resp: 18526

Ion	Ratio	Lower	Upper
105	100		
120	34.3	27.2	40.8
91	11.3	7.9	11.9

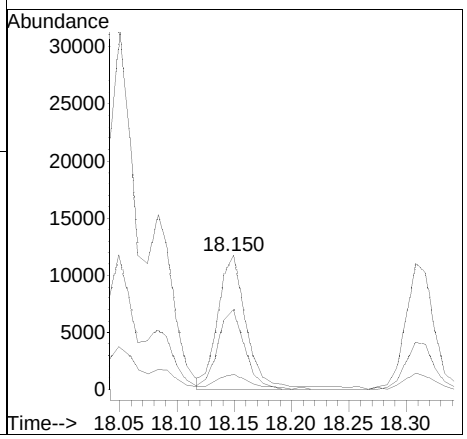


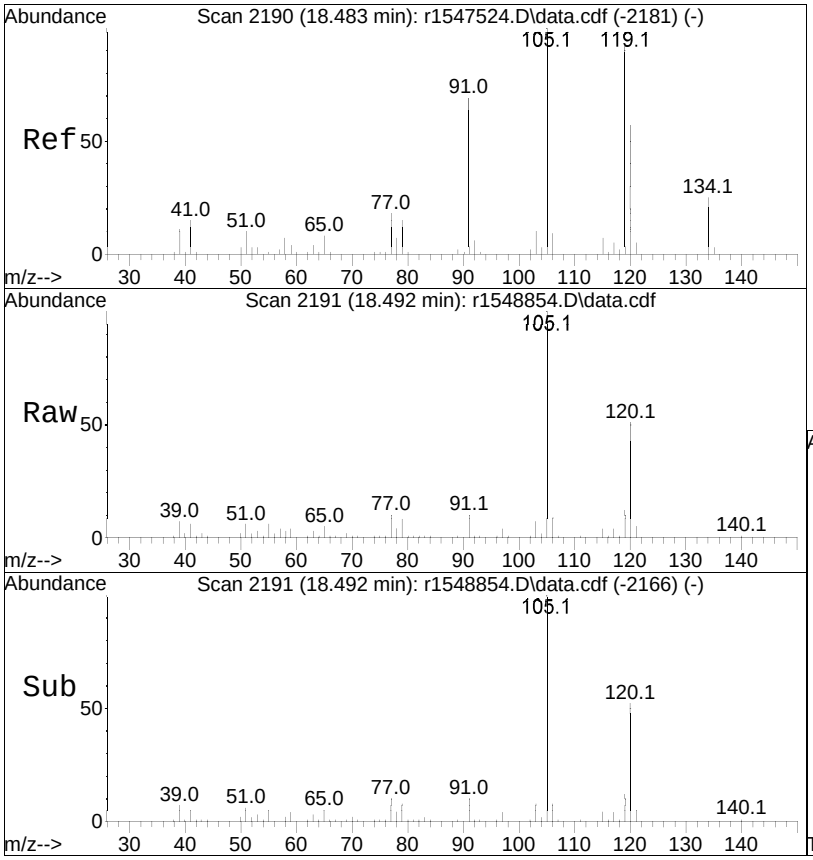


#97
1,3,5-trimethylbenzene
Concen: 0.22 ppbV
RT: 18.150 min Scan# 2152
Delta R.T. 0.008 min
Lab File: r1548854.D
Acq: 18 Jun 2024 10:27 PM

Tgt Ion:105 Resp: 23167

Ion	Ratio	Lower	Upper
105	100		
120	59.7	44.2	66.2
91	11.4	8.0	12.0

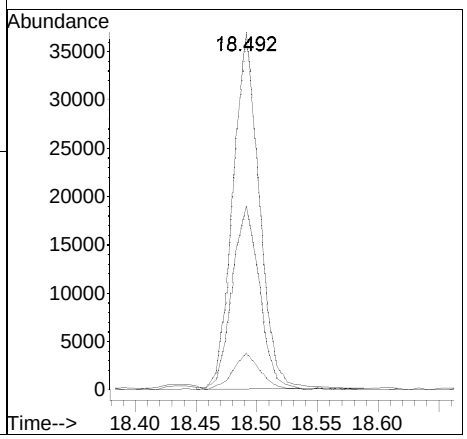




#99
1,2,4-trimethylbenzene
Concen: 0.61 ppbV
RT: 18.492 min Scan# 2191
Delta R.T. 0.008 min
Lab File: r1548854.D
Acq: 18 Jun 2024 10:27 PM

Tgt Ion:105 Resp: 55160

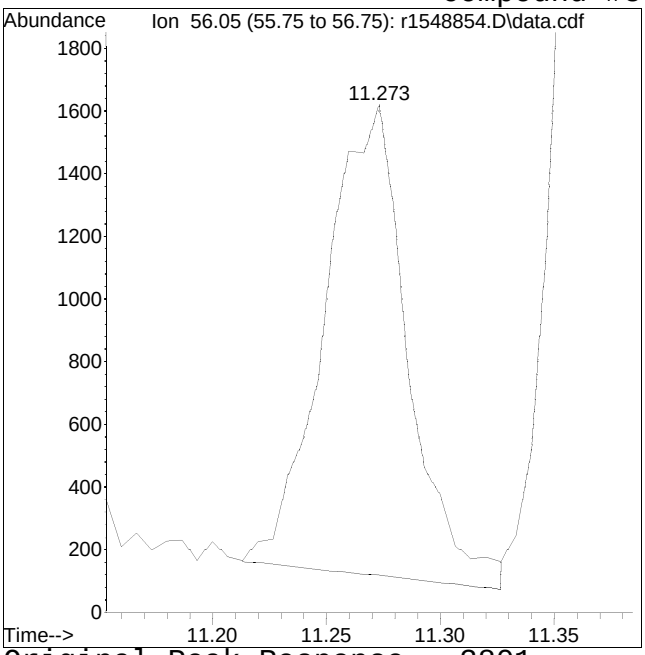
Ion	Ratio	Lower	Upper
105	100		
120	51.4	45.4	68.2
91	10.4	55.0	82.6#



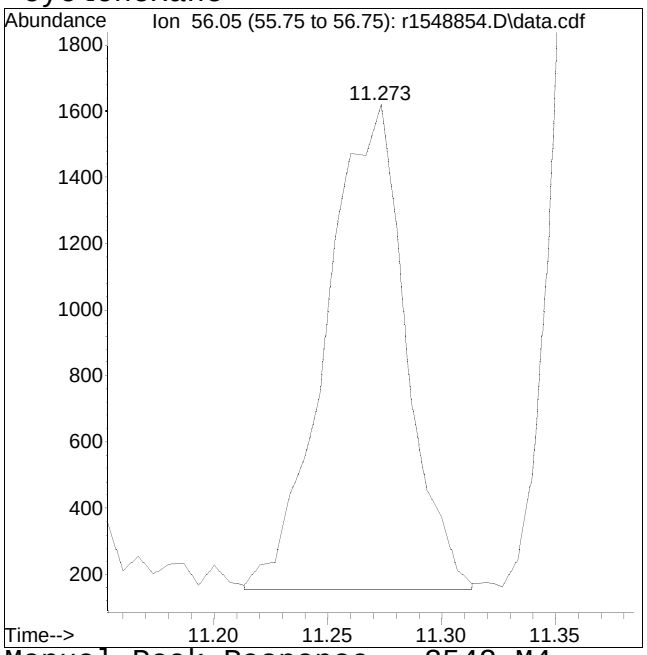
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1548854.D Operator : AIRLAB15:JMB
Date Inj'd : 6/18/2020 0:0: 7 Instrument :
Sample : L2432670-06,3,250,250 Quant Date : 6/19/2024 7:07 am

Compound #53: cyclohexane



Original Peak Response = 3801



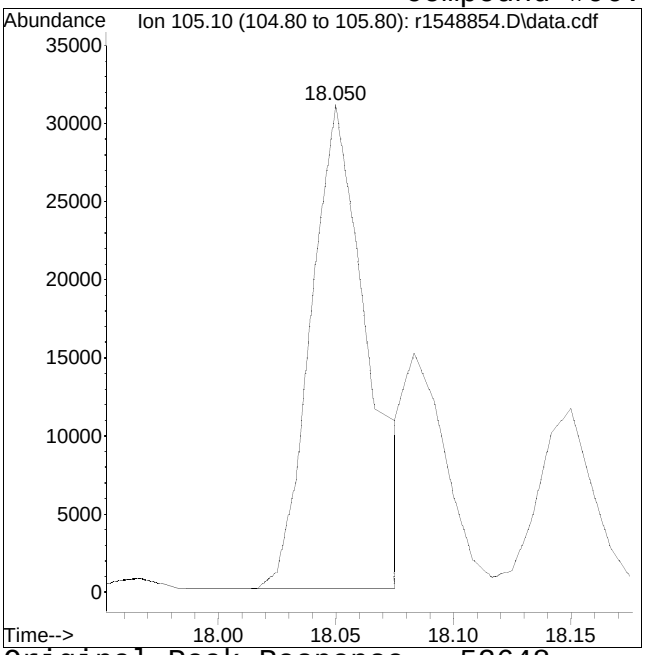
Manual Peak Response = 3542 M4

M4 = Poor automated baseline construction.

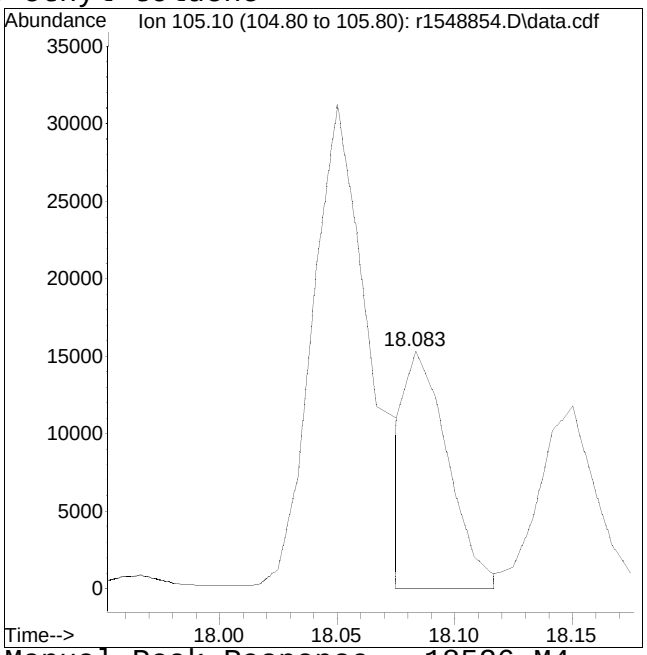
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1548854.D Operator : AIRLAB15:JMB
Date Inj'd : 6/18/2020 0:0: 7 Instrument :
Sample : L2432670-06,3,250,250 Quant Date : 6/19/2024 7:07 am

Compound #96: 4-ethyl toluene



Original Peak Response = 52648



Manual Peak Response = 18526 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548856.D
Acq On : 18 Jun 2024 11:43 PM
Operator : AIRLAB15:JMB
Sample : L2432670-07,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:10:28 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618T\r1548845.D
Sub List : TO15-NY+NAPH-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.142	49	288936	10.000	ppbV	0.02
Standard Area = 309658			Recovery =		93.31%	
43) 1,4-difluorobenzene	11.373	114	748726	10.000	ppbV	0.03
Standard Area = 833704			Recovery =		89.81%	
67) chlorobenzene-D5	16.058	54	136047	10.000	ppbV	0.02
Standard Area = 146665			Recovery =		92.76%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.018	85	14362	0.460	ppbV	99
6) chloromethane	4.180	50	7572	0.637	ppbV	94
7) Freon-114	4.294		0	N.D.		
10) 1,3-butadiene	4.564		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.182	31	8499385	897.874	ppbV	97
17) vinyl bromide	5.447		0	N.D.		
19) acetone	5.680	43	3809605	199.536	ppbV	99
21) trichlorofluoromethane	5.873	101	5118	0.200	ppbV	95
22) isopropyl alcohol	5.977	45	504943	21.554	ppbV	99
27) tertiary butyl alcohol	0.000		0	N.D.	d	
28) methylene chloride	6.726	49	5284	0.247	ppbV	90
29) 3-chloropropene	0.000		0	N.D.	d	
30) carbon disulfide	7.026	76	1746	0.032	ppbV #	1
31) Freon 113	7.014	101	2210	0.057	ppbV #	92
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	8.075		0	N.D.		
36) 2-butanone	8.442	43	448260	10.484	ppbV	96
38) Ethyl Acetate	9.225	61	6961	0.847	ppbV #	35
39) chloroform	9.300	83	1072	0.032	ppbV #	90
40) Tetrahydrofuran	9.750	42	11947M6	0.442	ppbV	
42) 1,2-dichloroethane	10.133		0	N.D.		
44) hexane	9.208	57	7018	0.214	ppbV #	52
50) benzene	10.947	78	9800	0.170	ppbV	98
53) cyclohexane	11.267	56	14393	0.410	ppbV	93
56) 1,2-dichloropropane	0.000		0	N.D.		

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548856.D
Acq On : 18 Jun 2024 11:43 PM
Operator : AIRLAB15:JMB
Sample : L2432670-07,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:10:28 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618T\r1548845.D
Sub List : TO15-NY+NAPH-7-SIM - .

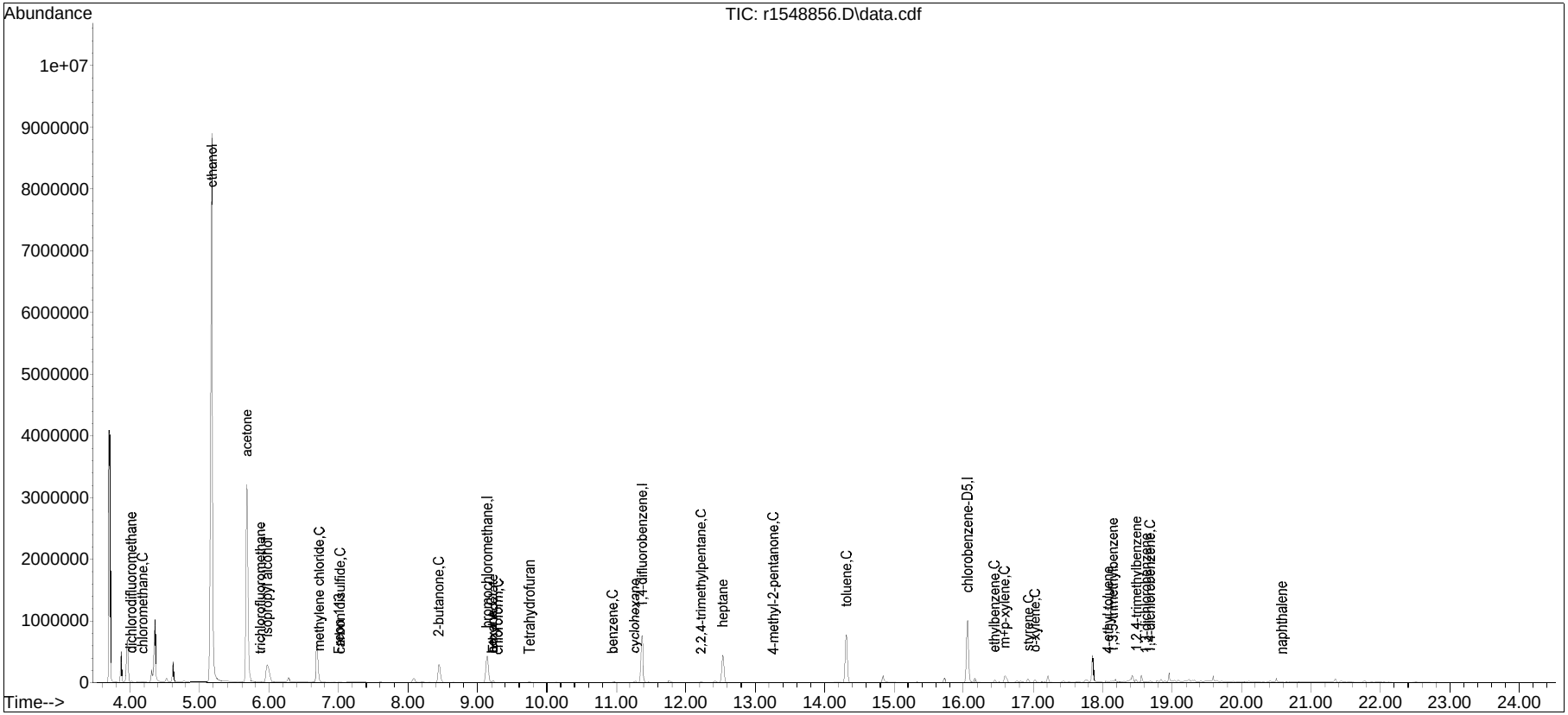
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
57) bromodichloromethane	0.000		0	N.D.	
58) 1,4-dioxane	0.000		0	N.D. d	
60) 2,2,4-trimethylpentane	12.220	57	12452	0.114 ppbV #	90
62) heptane	12.533	43	229200	6.287 ppbV	96
63) cis-1,3-dichloropropene	0.000		0	N.D.	
64) 4-methyl-2-pentanone	13.258	43	3094	0.075 ppbV #	86
65) trans-1,3-dichloropropene	0.000		0	N.D.	
66) 1,1,2-trichloroethane	0.000		0	N.D.	
68) toluene	14.317	91	664203	7.755 ppbV	99
72) 2-hexanone	14.575		0	N.D.	
74) dibromochloromethane	0.000		0	N.D.	
75) 1,2-dibromoethane	0.000		0	N.D.	
80) chlorobenzene	16.108		0	N.D.	
81) ethylbenzene	16.442	91	33804	0.308 ppbV	94
83) m+p-xylene	16.592	91	93420	1.087 ppbV	95
84) bromoform	16.675		0	N.D.	
85) styrene	16.933	104	22586	0.334 ppbV	96
86) 1,1,2,2-tetrachloroethane	16.933		0	N.D.	
87) o-xylene	17.025	91	27876	0.325 ppbV	99
96) 4-ethyl toluene	18.083	105	4068M4	0.036 ppbV	
97) 1,3,5-trimethylbenzene	18.150	105	5363	0.049 ppbV #	96
99) 1,2,4-trimethylbenzene	18.492	105	15007	0.161 ppbV #	59
101) Benzyl Chloride	18.675		0	N.D.	
102) 1,3-dichlorobenzene	18.625	146	2015M4	0.031 ppbV	
103) 1,4-dichlorobenzene	18.683	146	6850	0.103 ppbV #	93
107) 1,2-dichlorobenzene	0.000		0	N.D.	
115) 1,2,4-trichlorobenzene	0.000		0	N.D.	
116) naphthalene	20.583	128	4075	0.033 ppbV #	96
119) hexachlorobutadiene	0.000		0	N.D.	

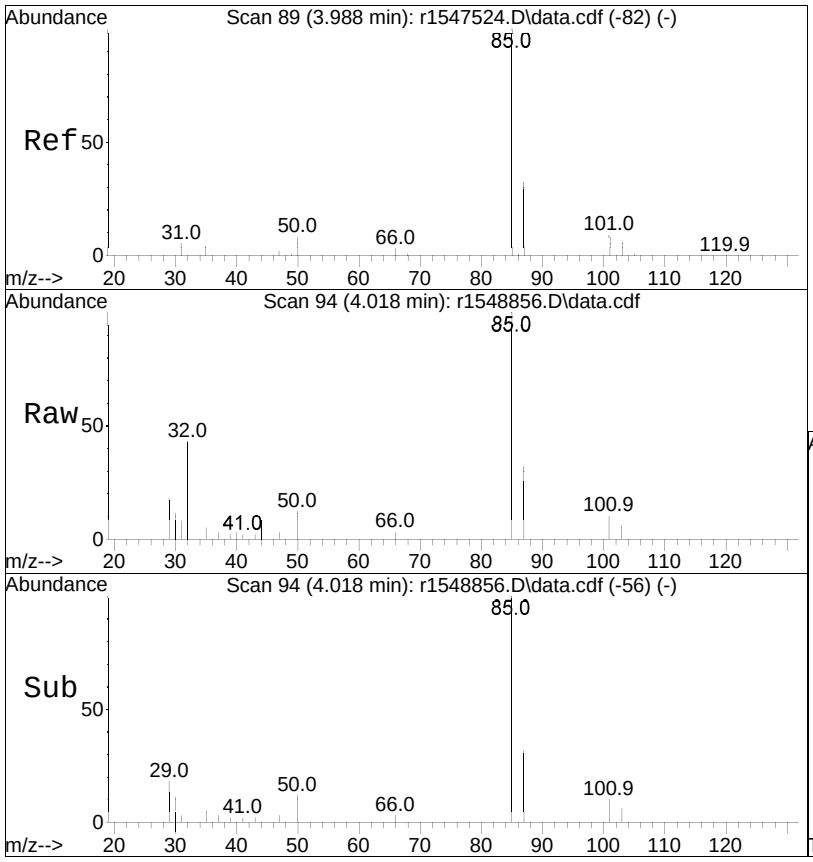
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY+NAPH-7-SIM - .ab15\2024\06\0618T\r1548845.D

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548856.D
Acq On : 18 Jun 2024 11:43 PM
Operator : AIRLAB15:JMB
Sample : L2432670-07,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:10:28 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

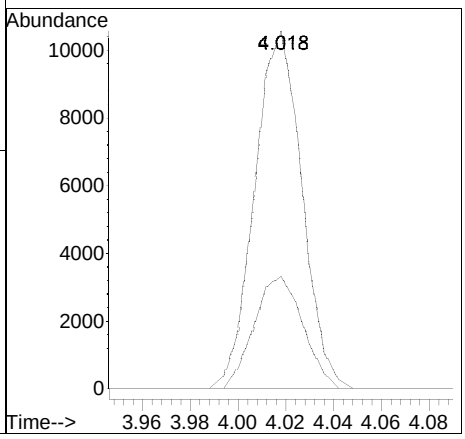


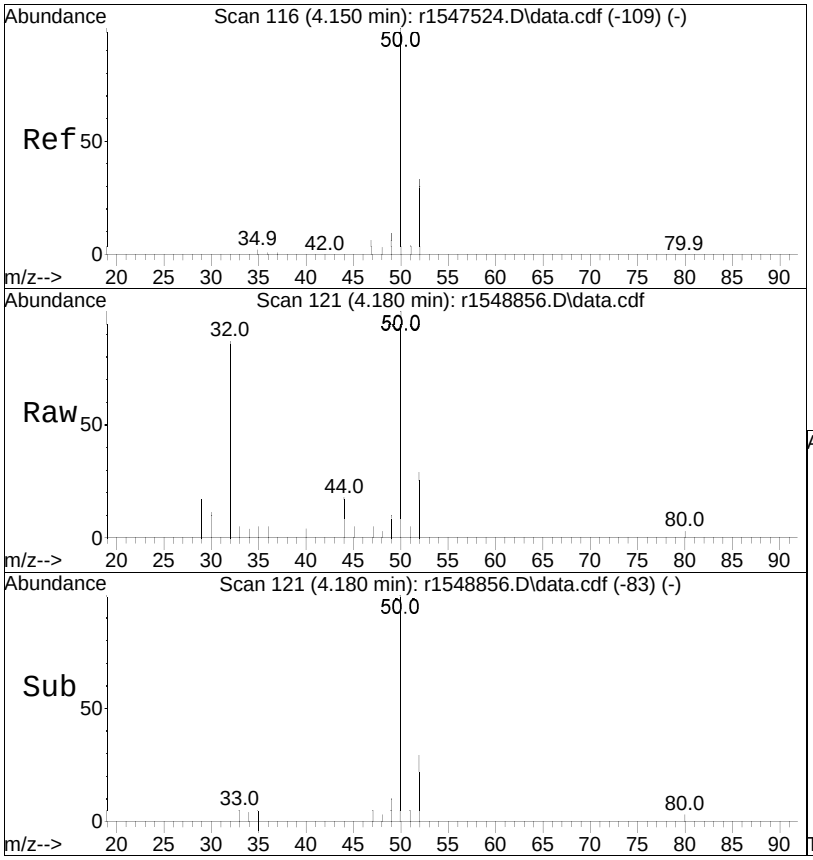


#5
dichlorodifluoromethane
Concen: 0.46 ppbV
RT: 4.018 min Scan# 94
Delta R.T. 0.030 min
Lab File: r1548856.D
Acq: 18 Jun 2024 11:43 PM

Tgt Ion: 85 Resp: 14362

Ion	Ratio	Lower	Upper
85	100		
87	31.7	25.8	38.8

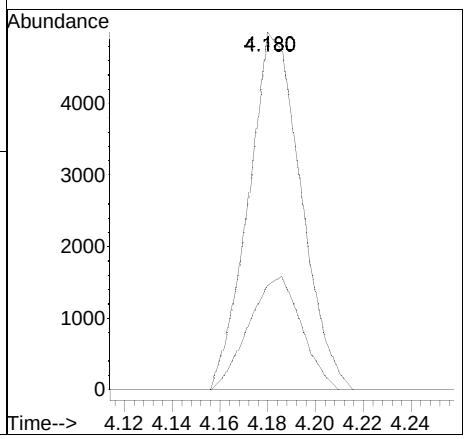


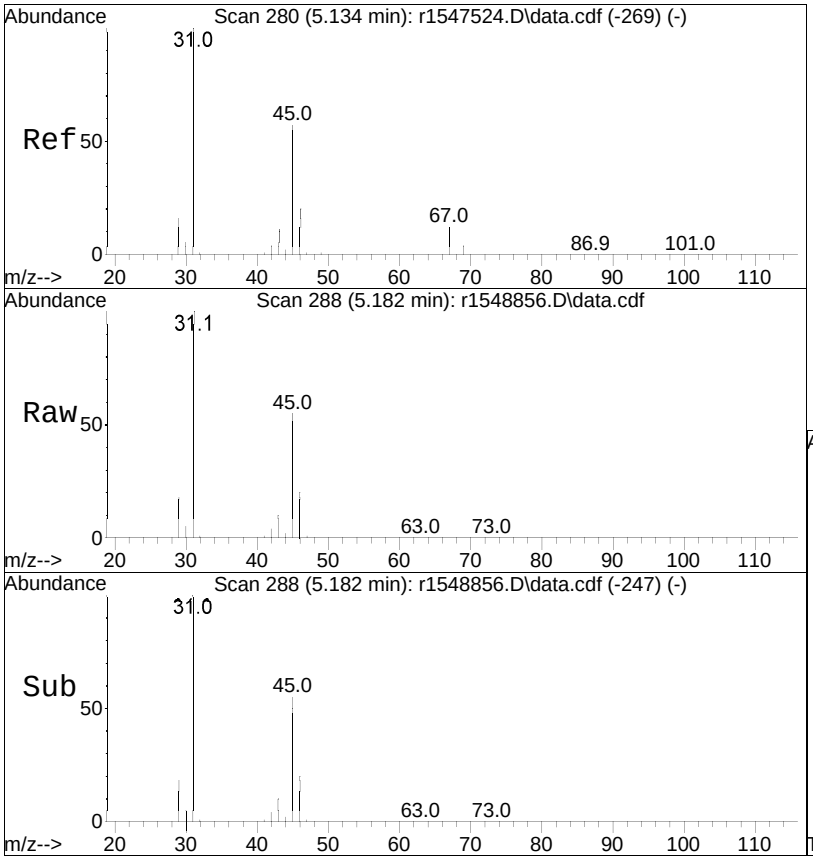


#6
chloromethane
Concen: 0.64 ppbV
RT: 4.180 min Scan# 121
Delta R.T. 0.030 min
Lab File: r1548856.D
Acq: 18 Jun 2024 11:43 PM

Tgt Ion: 50 Resp: 7572

Ion	Ratio	Lower	Upper
50	100		
52	29.2	26.0	39.0

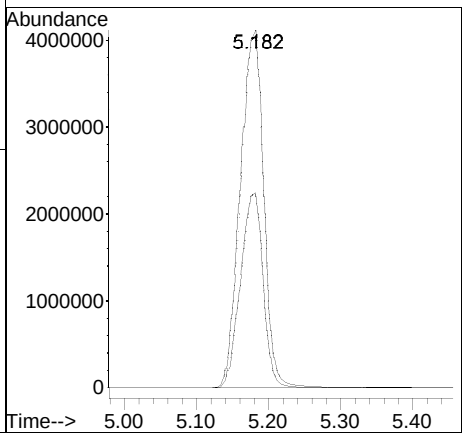


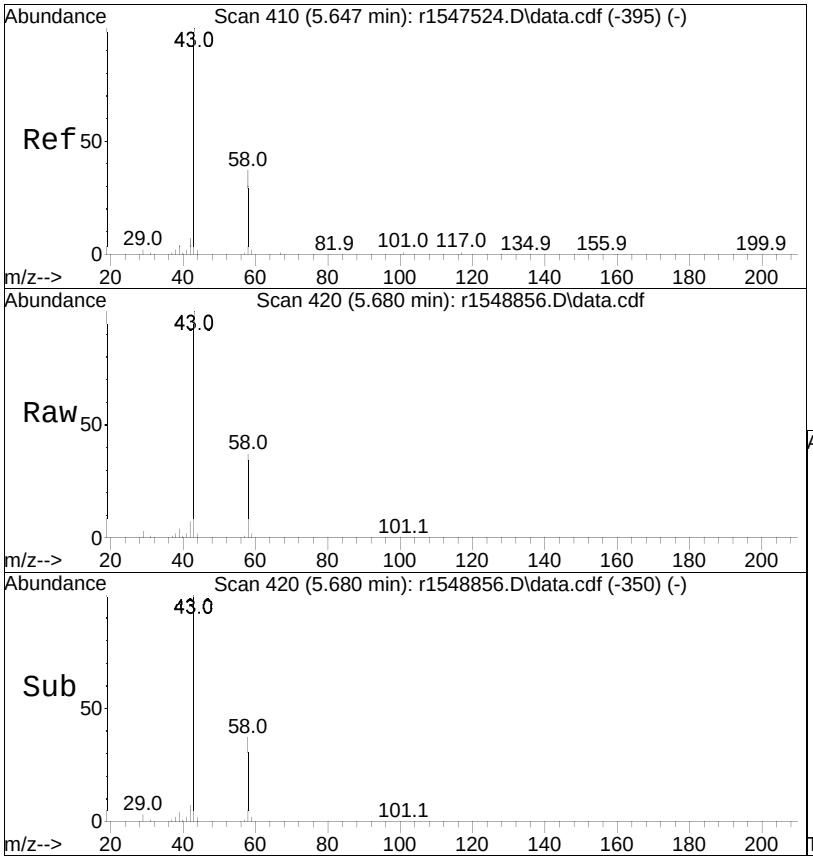


#15
ethanol
Concen: 897.87 ppbV
RT: 5.182 min Scan# 288
Delta R.T. 0.048 min
Lab File: r1548856.D
Acq: 18 Jun 2024 11:43 PM

Tgt Ion: 31 Resp: 8499385

Ion	Ratio	Lower	Upper
31	100		
45	54.6	45.7	68.5

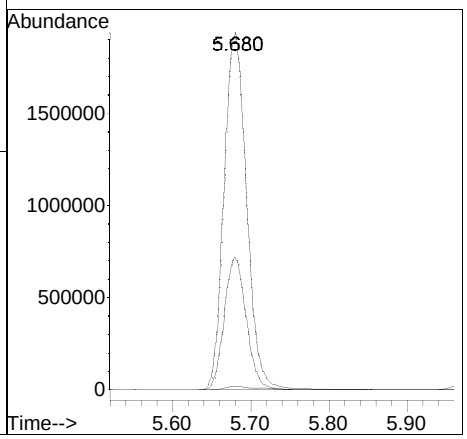


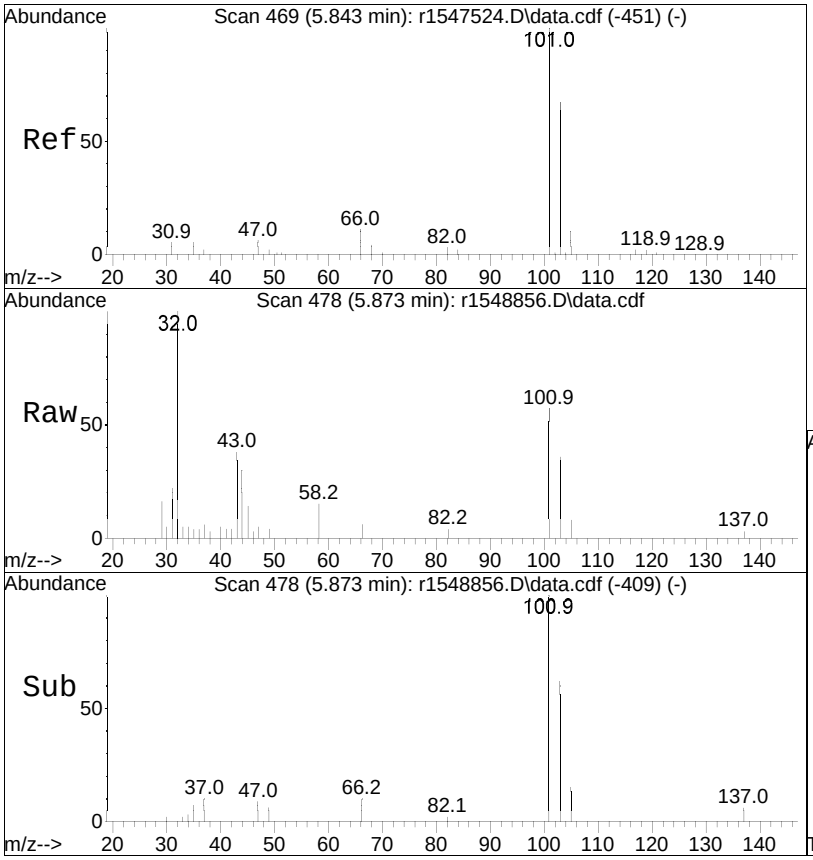


#19
acetone
Concen: 199.54 ppbV
RT: 5.680 min Scan# 420
Delta R.T. 0.033 min
Lab File: r1548856.D
Acq: 18 Jun 2024 11:43 PM

Tgt Ion: 43 Resp: 3809605

Ion	Ratio	Lower	Upper
43	100		
58	37.3	29.4	44.0
57	1.0	0.7	1.1

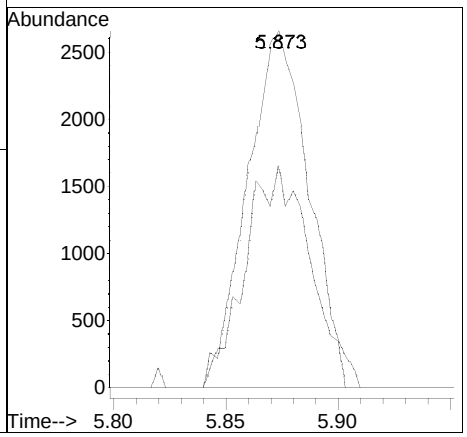


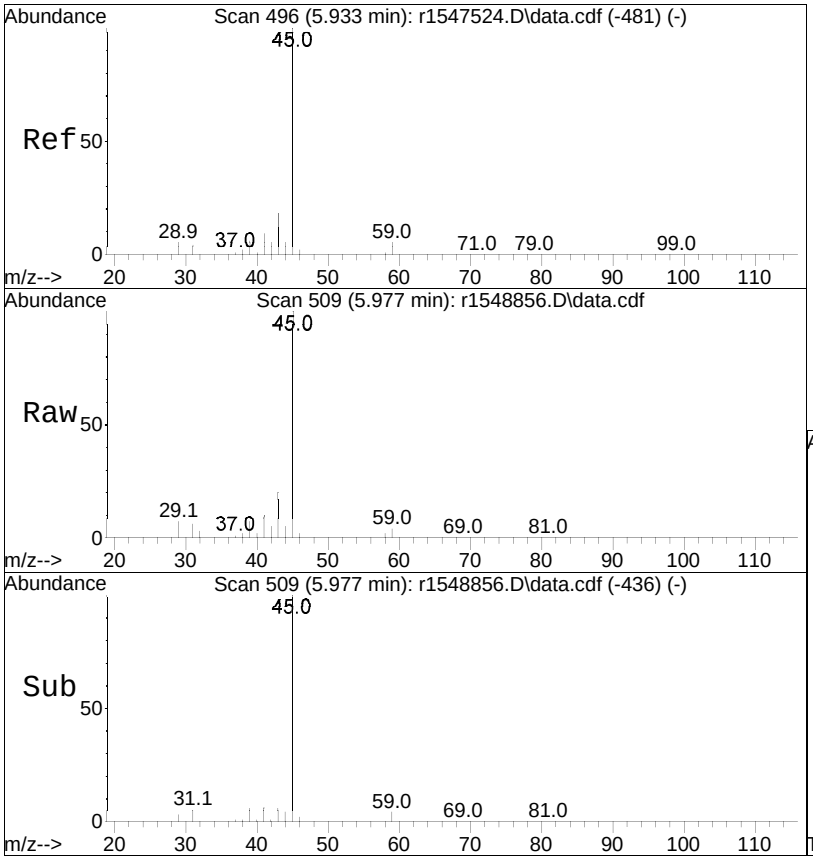


#21
trichlorofluoromethane
Concen: 0.20 ppbV
RT: 5.873 min Scan# 478
Delta R.T. 0.030 min
Lab File: r1548856.D
Acq: 18 Jun 2024 11:43 PM

Tgt Ion:101 Resp: 5118

Ion	Ratio	Lower	Upper
101	100		
103	62.3	53.4	80.0

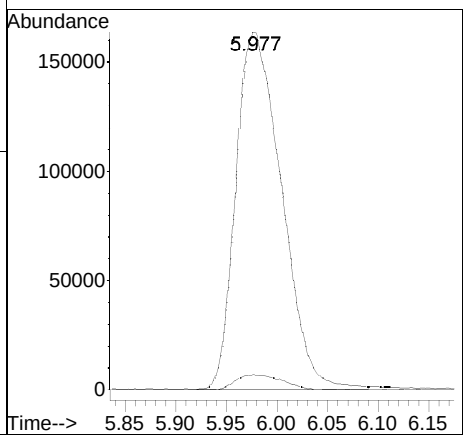


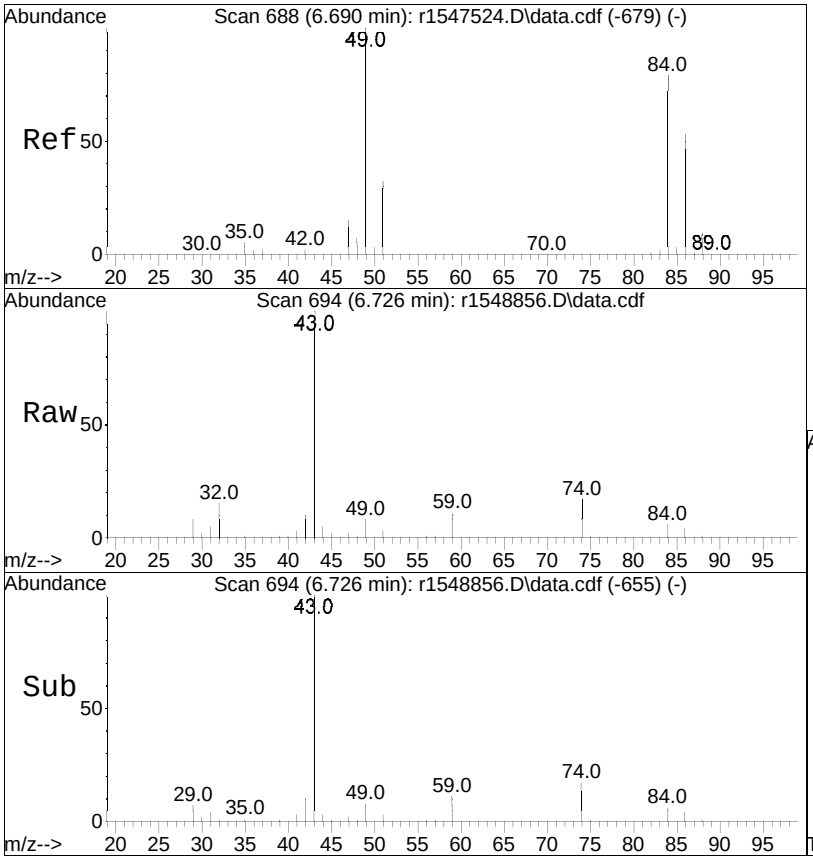


#22
isopropyl alcohol
Concen: 21.55 ppbV
RT: 5.977 min Scan# 509
Delta R.T. 0.043 min
Lab File: r1548856.D
Acq: 18 Jun 2024 11:43 PM

Tgt Ion: 45 Resp: 504943

Ion	Ratio	Lower	Upper
45	100		
59	4.4	3.8	5.6

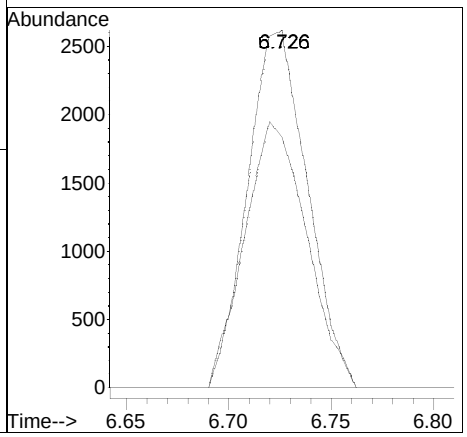


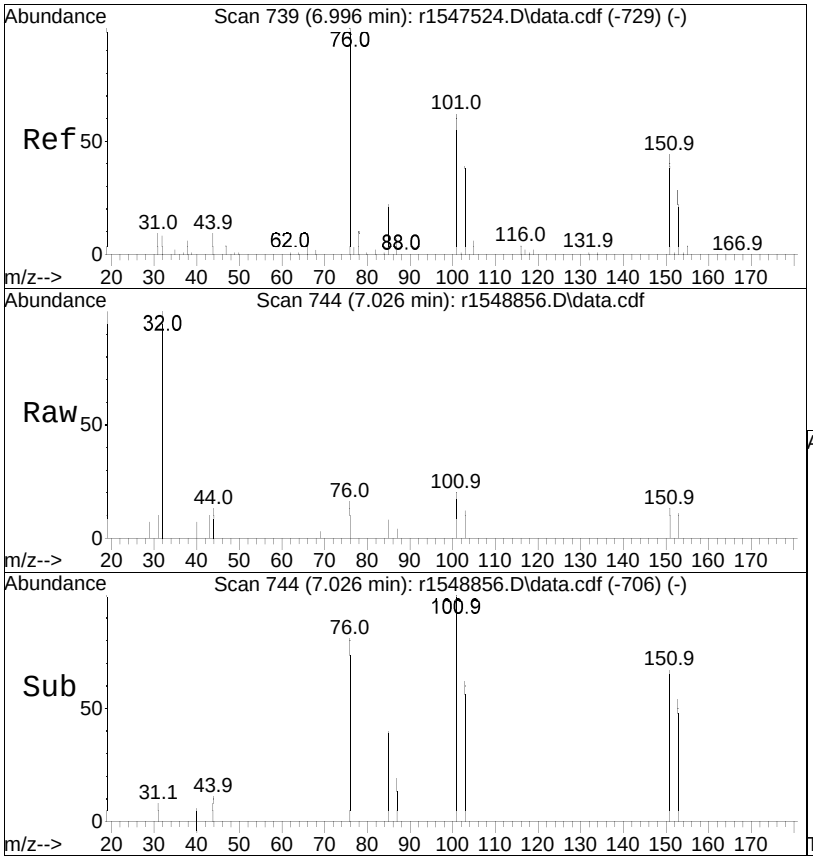


#28
methylene chloride
Concen: 0.25 ppbV
RT: 6.726 min Scan# 694
Delta R.T. 0.036 min
Lab File: r1548856.D
Acq: 18 Jun 2024 11:43 PM

Tgt Ion: 49 Resp: 5284

Ion	Ratio	Lower	Upper
49	100		
84	70.2	63.4	95.2

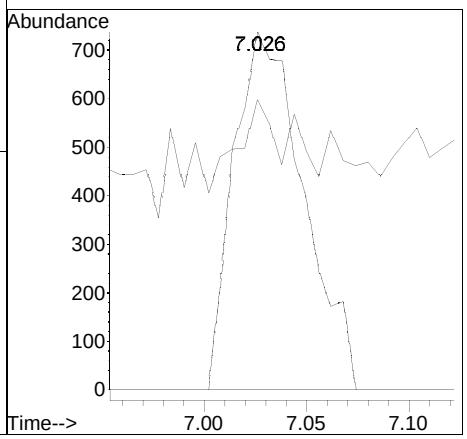


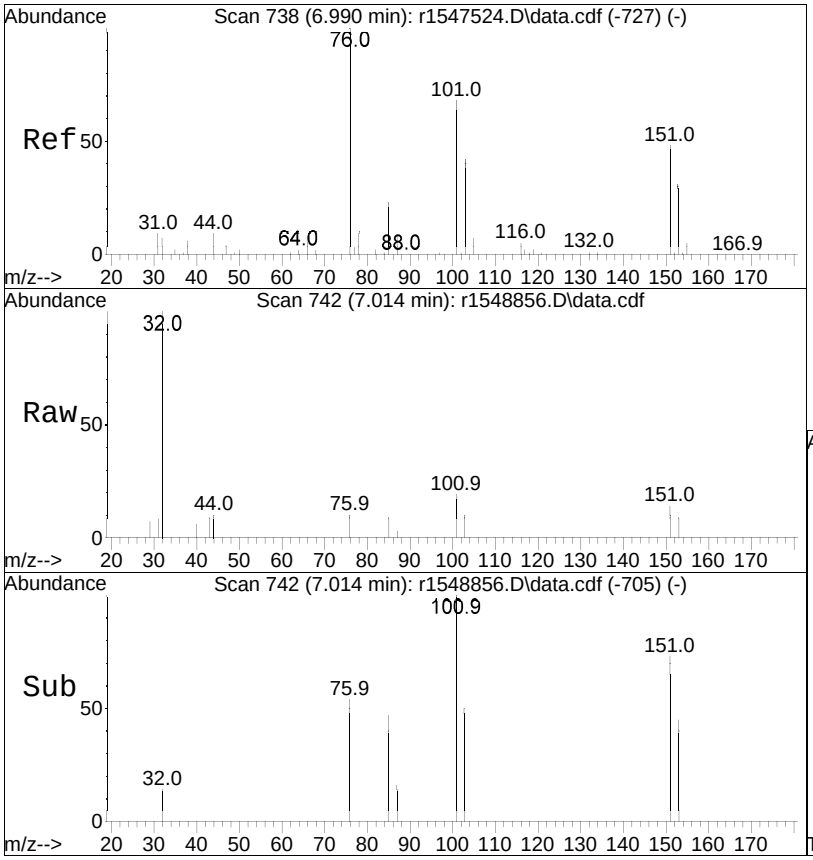


#30
carbon disulfide
Concen: 0.03 ppbV
RT: 7.026 min Scan# 744
Delta R.T. 0.030 min
Lab File: r1548856.D
Acq: 18 Jun 2024 11:43 PM

Tgt Ion: 76 Resp: 1746

Ion	Ratio	Lower	Upper
76	100		
44	81.3	7.5	11.3#

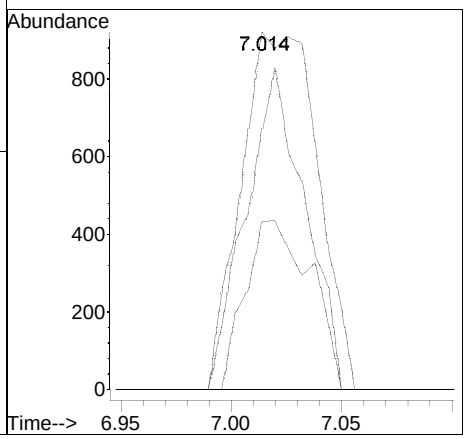


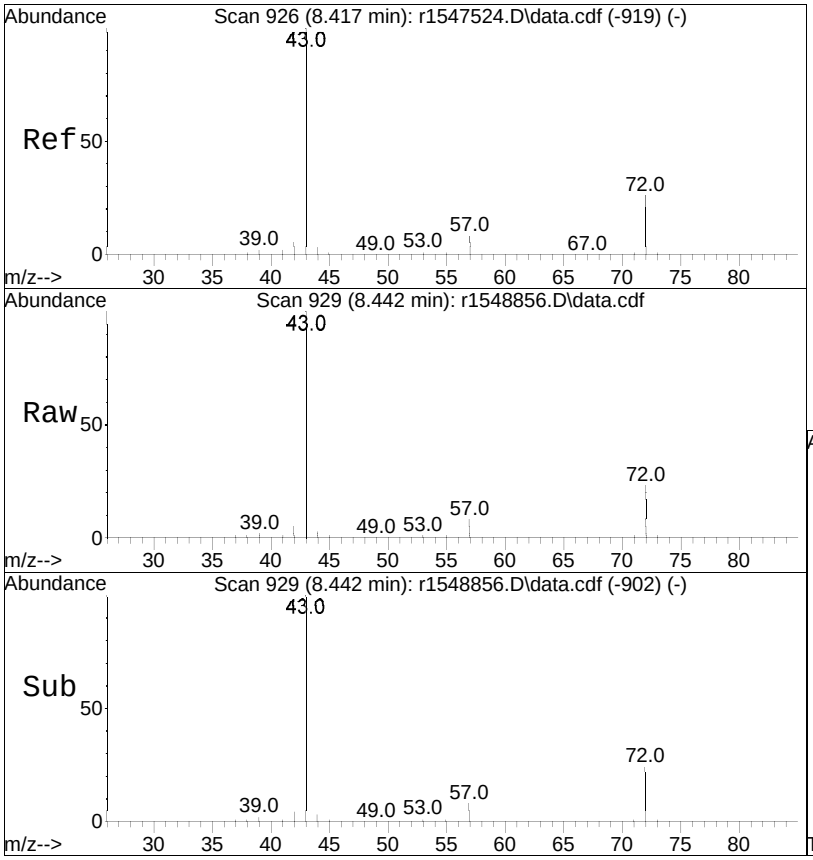


#31
Freon 113
Concen: 0.06 ppbV
RT: 7.014 min Scan# 742
Delta R.T. 0.024 min
Lab File: r1548856.D
Acq: 18 Jun 2024 11:43 PM

Tgt Ion:101 Resp: 2210

Ion	Ratio	Lower	Upper
101	100		
85	46.8	27.6	41.4#
151	72.7	56.9	85.3

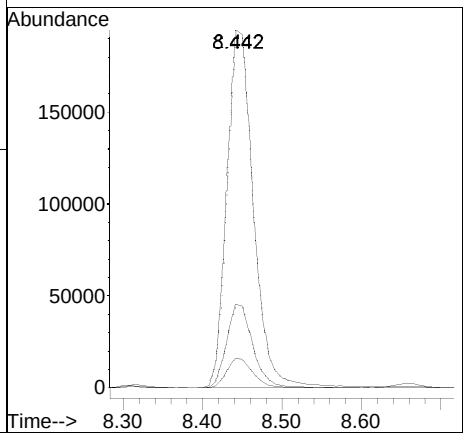


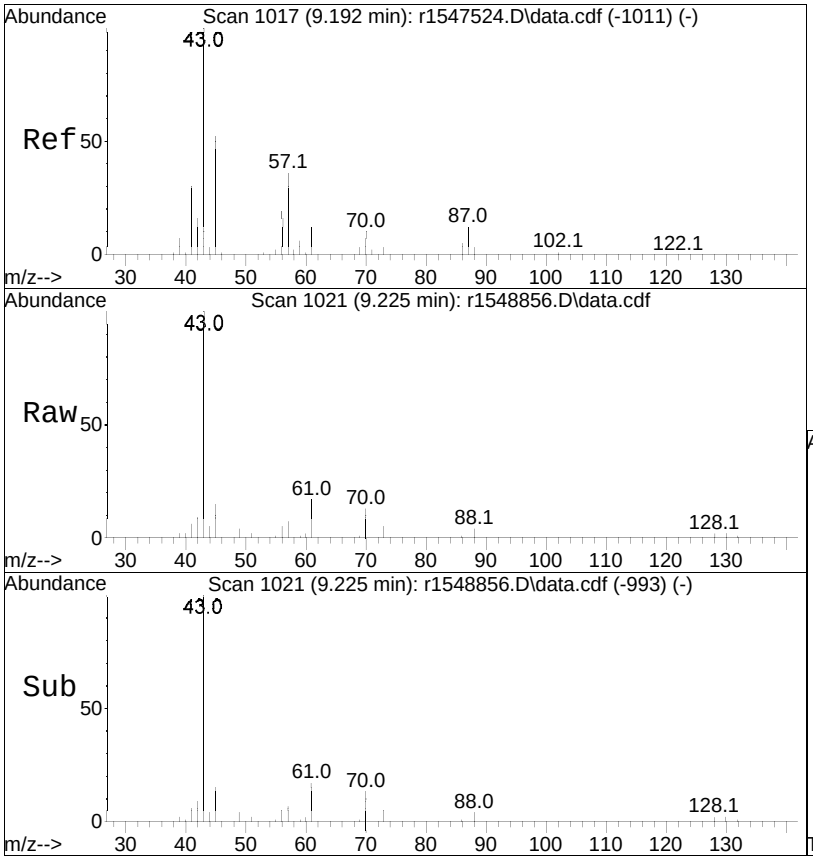


#36
2-butanone
Concen: 10.48 ppbV
RT: 8.442 min Scan# 929
Delta R.T. 0.025 min
Lab File: r1548856.D
Acq: 18 Jun 2024 11:43 PM

Tgt Ion: 43 Resp: 448260

Ion	Ratio	Lower	Upper
43	100		
72	23.4	20.9	31.3
57	8.4	6.6	10.0

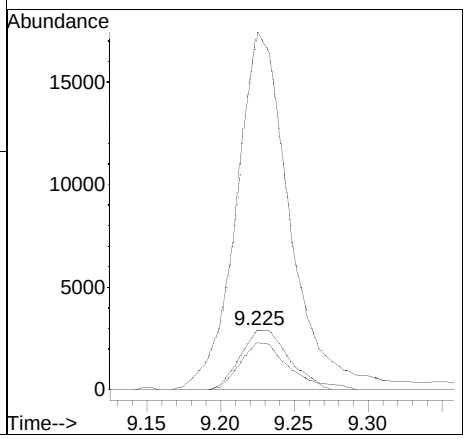


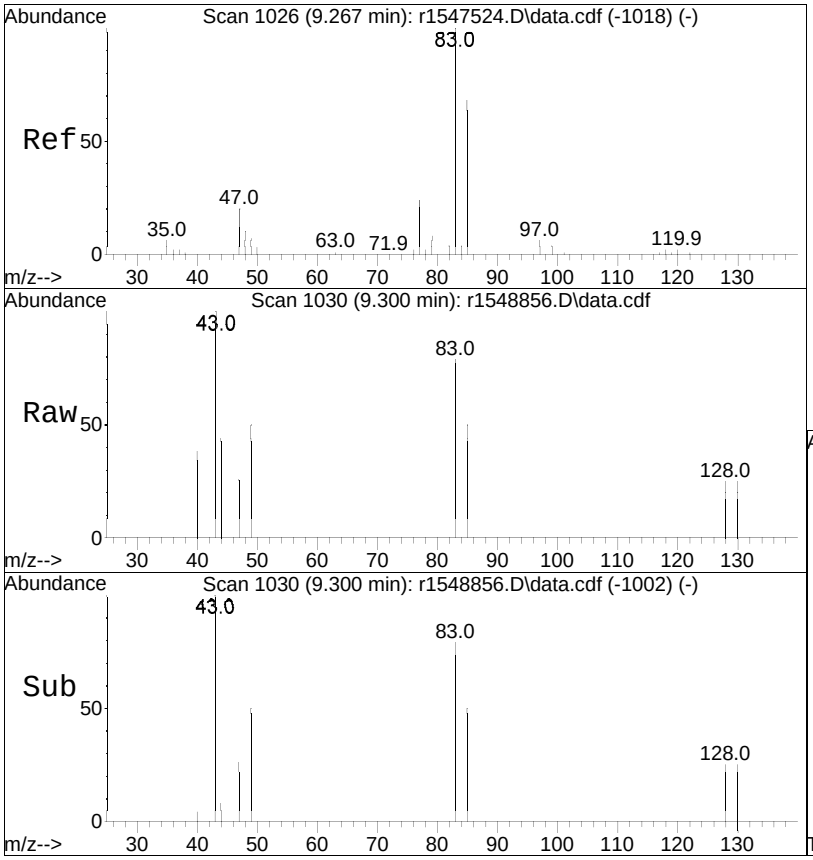


#38
Ethyl Acetate
Concen: 0.85 ppbV
RT: 9.225 min Scan# 1021
Delta R.T. 0.033 min
Lab File: r1548856.D
Acq: 18 Jun 2024 11:43 PM

Tgt Ion: 61 Resp: 6961

Ion	Ratio	Lower	Upper
61	100		
70	78.5	67.9	101.9
43	592.2	703.5	1055.3#

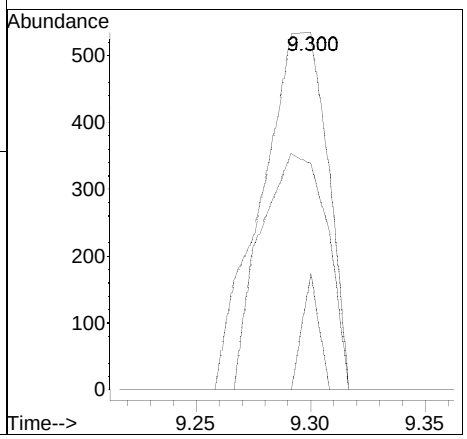


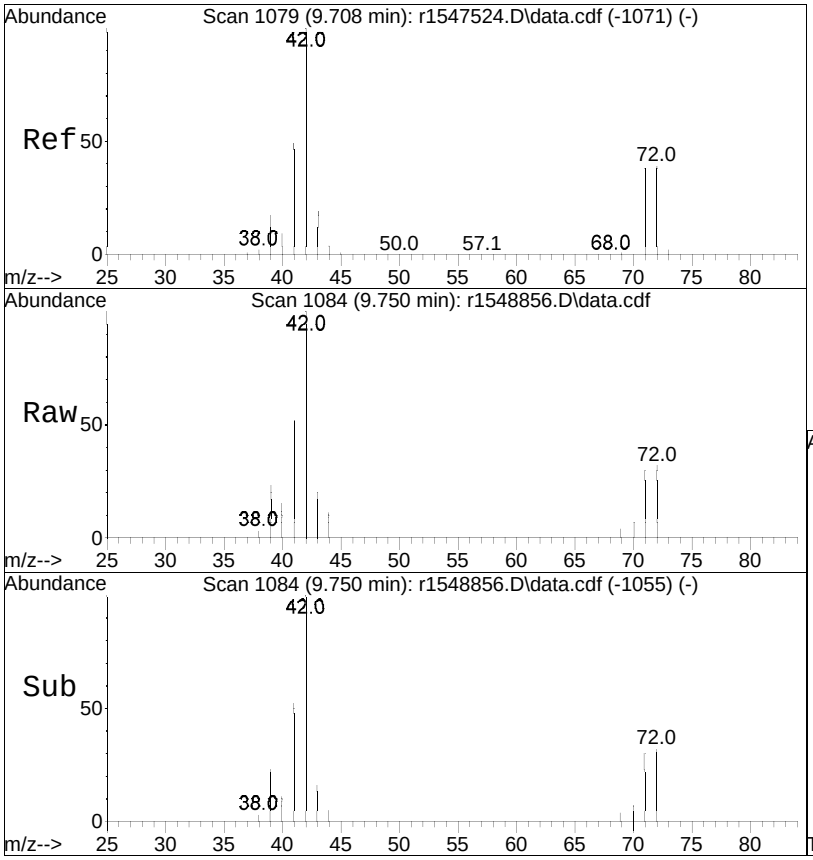


#39
chloroform
Concen: 0.03 ppbV
RT: 9.300 min Scan# 1030
Delta R.T. 0.033 min
Lab File: r1548856.D
Acq: 18 Jun 2024 11:43 PM

Tgt Ion: 83 Resp: 1072

Ion	Ratio	Lower	Upper
83	100		
85	63.3	54.3	81.5
47	32.6	16.4	24.6#

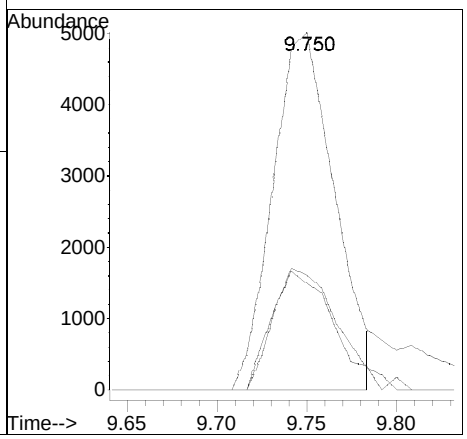


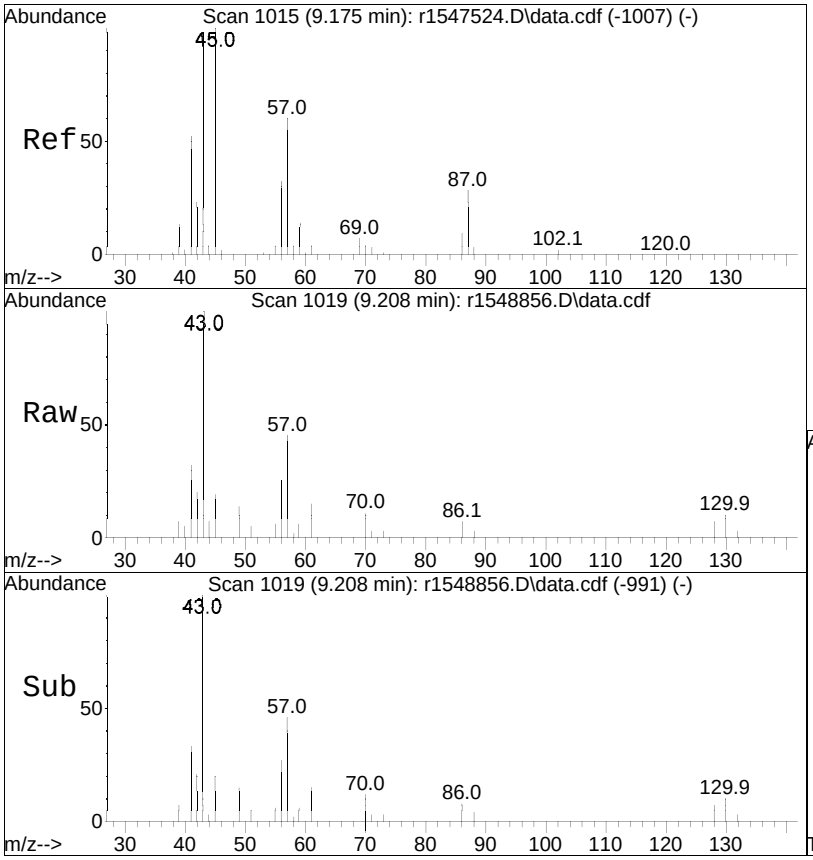


#40
Tetrahydrofuran
Concen: 0.44 ppbV m
RT: 9.750 min Scan# 1084
Delta R.T. 0.042 min
Lab File: r1548856.D
Acq: 18 Jun 2024 11:43 PM

Tgt Ion: 42 Resp: 11947

Ion	Ratio	Lower	Upper
42	100		
71	29.8	30.1	45.1#
72	32.2	31.4	47.2

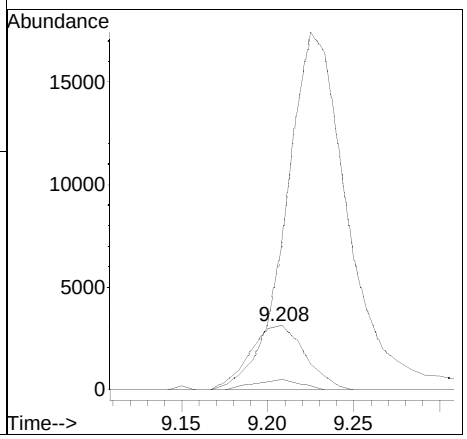


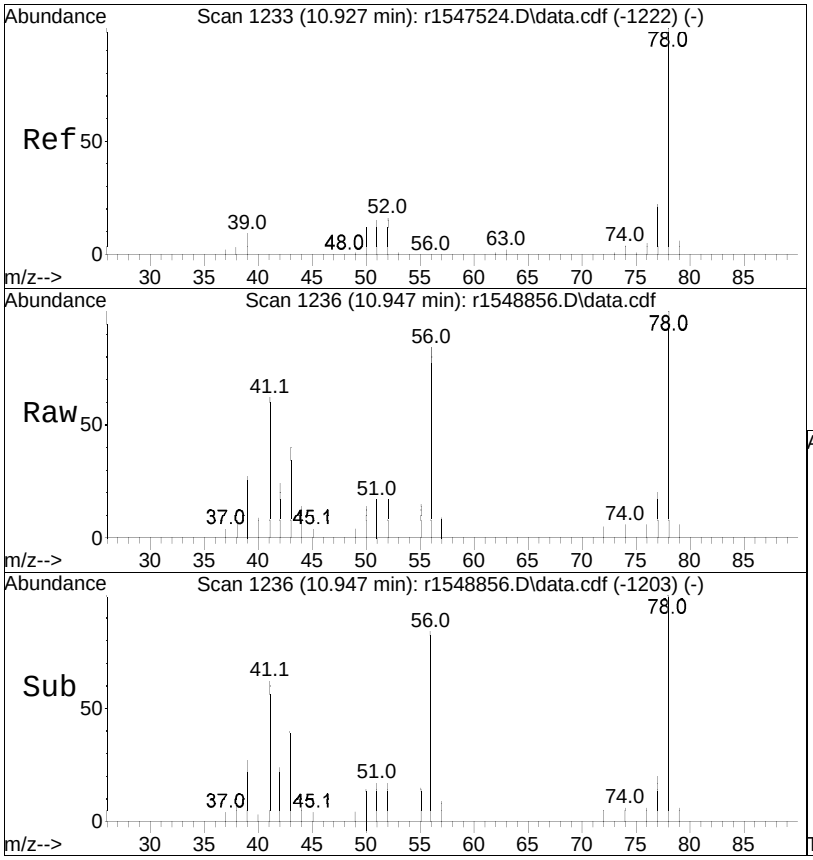


#44
hexane
Concen: 0.21 ppbV
RT: 9.208 min Scan# 1019
Delta R.T. 0.033 min
Lab File: r1548856.D
Acq: 18 Jun 2024 11:43 PM

Tgt Ion: 57 Resp: 7018

Ion	Ratio	Lower	Upper
57	100		
43	223.1	124.6	186.8#
86	16.3	11.5	17.3

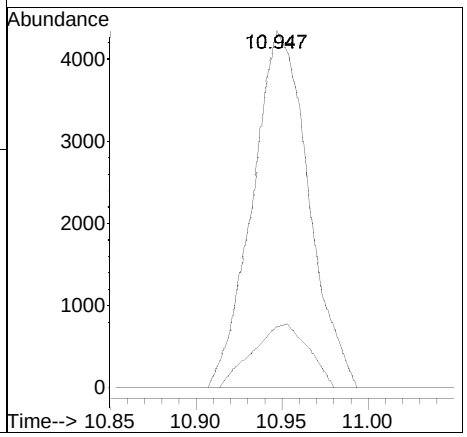


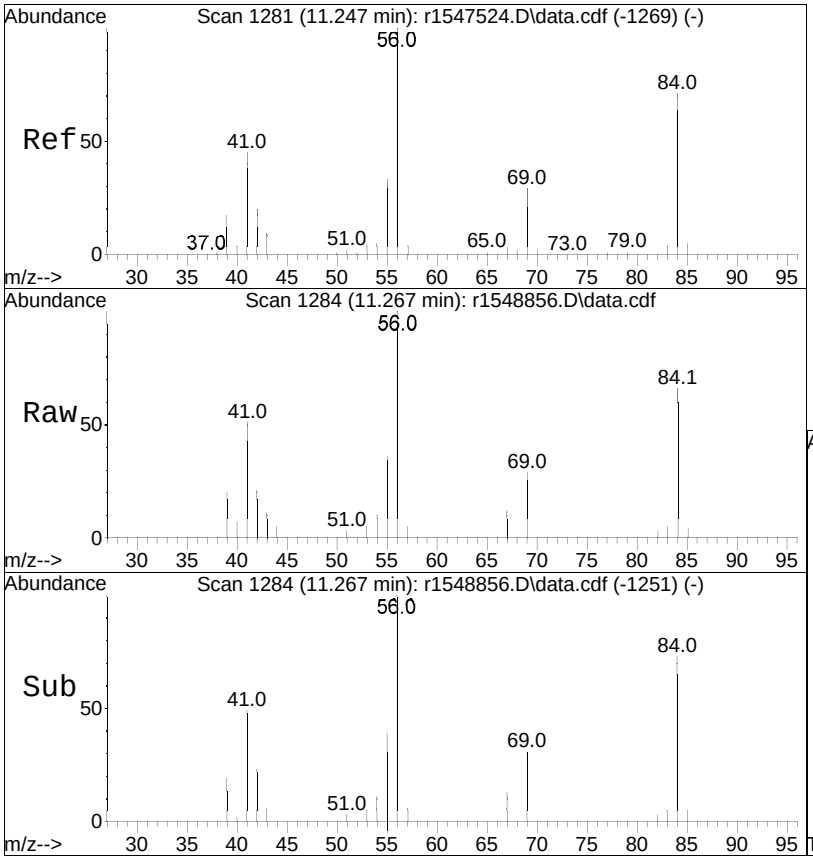


#50
benzene
Concen: 0.17 ppbV
RT: 10.947 min Scan# 1236
Delta R.T. 0.020 min
Lab File: r1548856.D
Acq: 18 Jun 2024 11:43 PM

Tgt Ion: 78 Resp: 9800

Ion	Ratio	Lower	Upper
78	100		
52	17.1	13.0	19.4

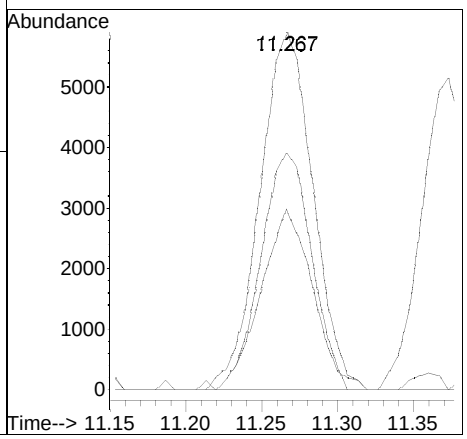


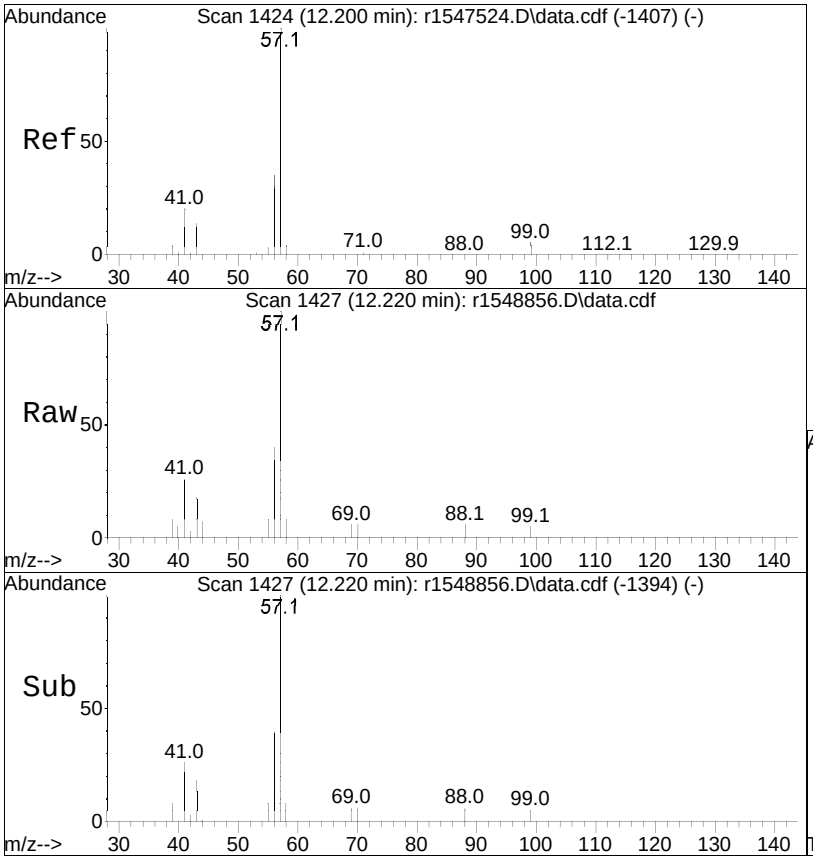


#53
cyclohexane
Concen: 0.41 ppbV
RT: 11.267 min Scan# 1284
Delta R.T. 0.020 min
Lab File: r1548856.D
Acq: 18 Jun 2024 11:43 PM

Tgt Ion: 56 Resp: 14393

Ion	Ratio	Lower	Upper
56	100		
84	66.4	57.2	85.8
41	50.6	35.9	53.9

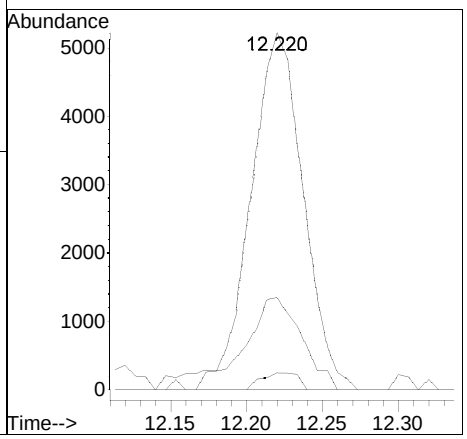


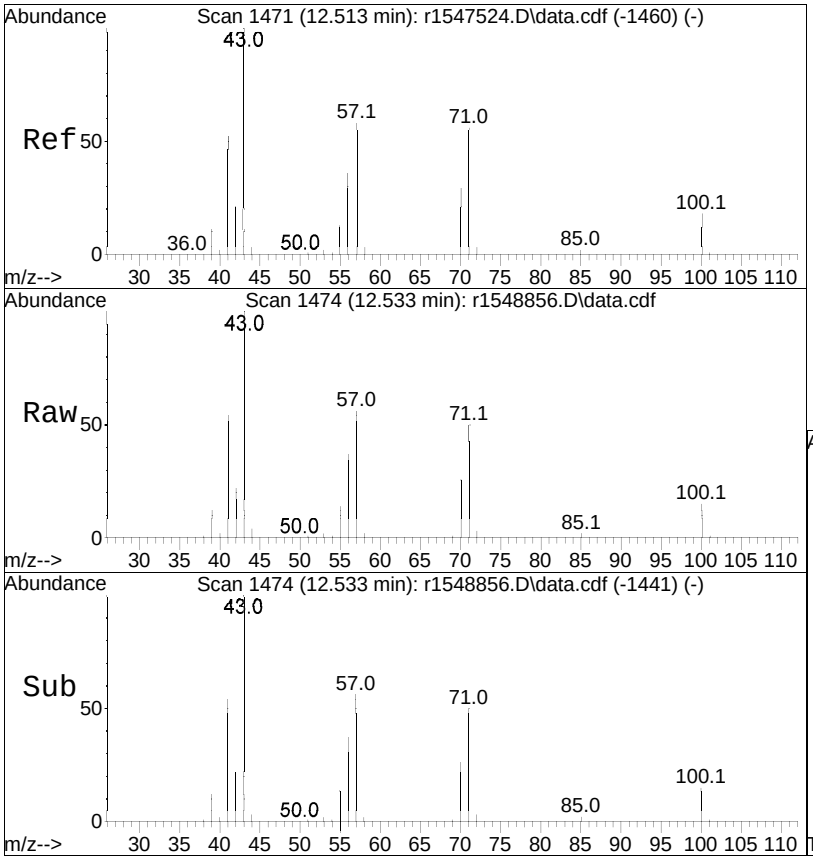


#60
2,2,4-trimethylpentane
Concen: 0.11 ppbV
RT: 12.220 min Scan# 1427
Delta R.T. 0.020 min
Lab File: r1548856.D
Acq: 18 Jun 2024 11:43 PM

Tgt Ion: 57 Resp: 12452

Ion	Ratio	Lower	Upper
57	100		
99	4.7	4.0	6.0
41	25.9	16.1	24.1#

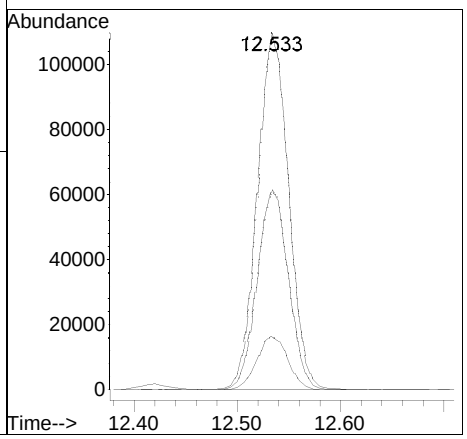


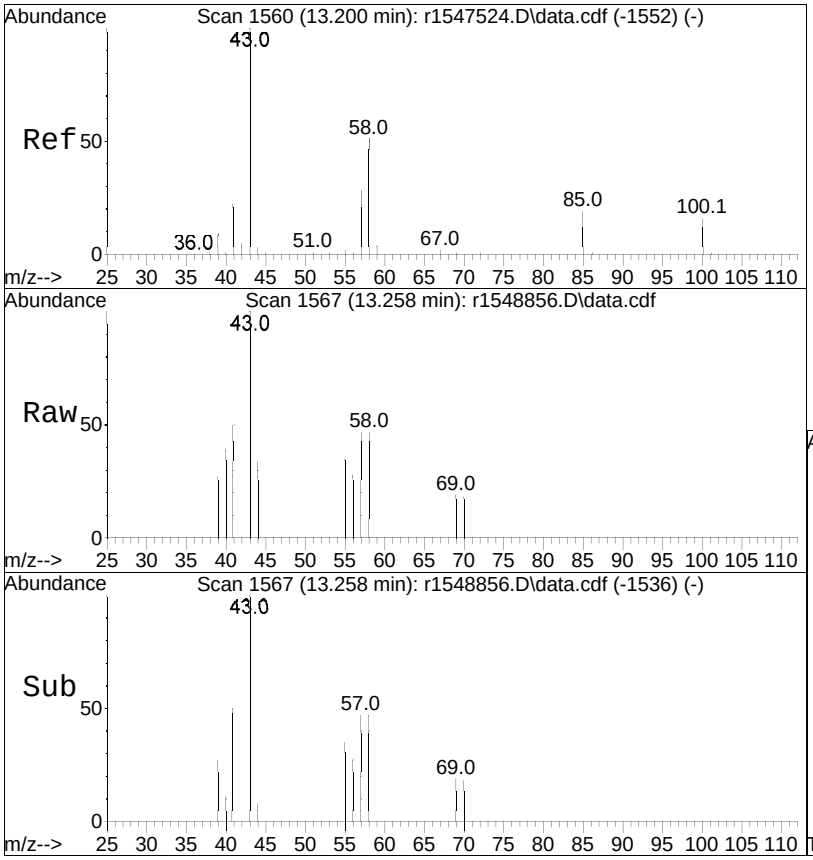


#62
heptane
Concen: 6.29 ppbV
RT: 12.533 min Scan# 1474
Delta R.T. 0.020 min
Lab File: r1548856.D
Acq: 18 Jun 2024 11:43 PM

Tgt Ion: 43 Resp: 229200

Ion	Ratio	Lower	Upper
43	100		
57	56.0	46.6	70.0
100	15.0	14.6	22.0

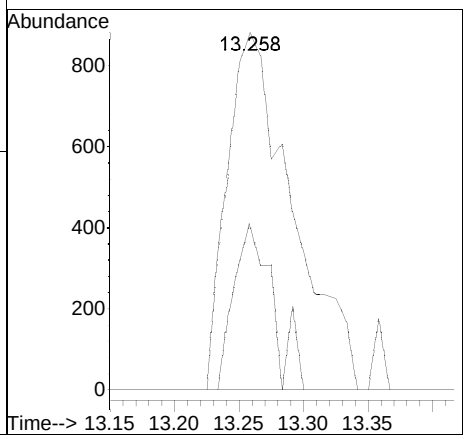


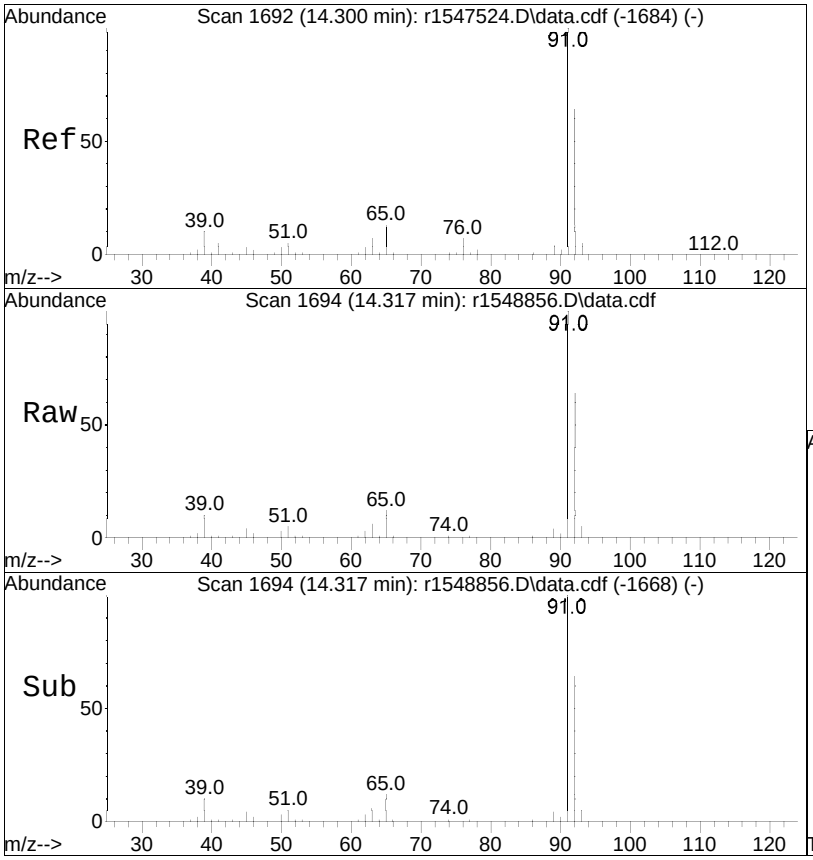


#64
4-methyl-2-pentanone
Concen: 0.07 ppbV
RT: 13.258 min Scan# 1567
Delta R.T. 0.058 min
Lab File: r1548856.D
Acq: 18 Jun 2024 11:43 PM

Tgt Ion: 43 Resp: 3094

Ion	Ratio	Lower	Upper
43	100		
58	46.5	41.0	61.4
100	0.0	13.0	19.6#

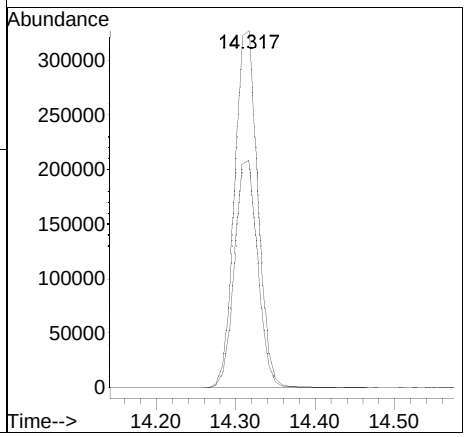


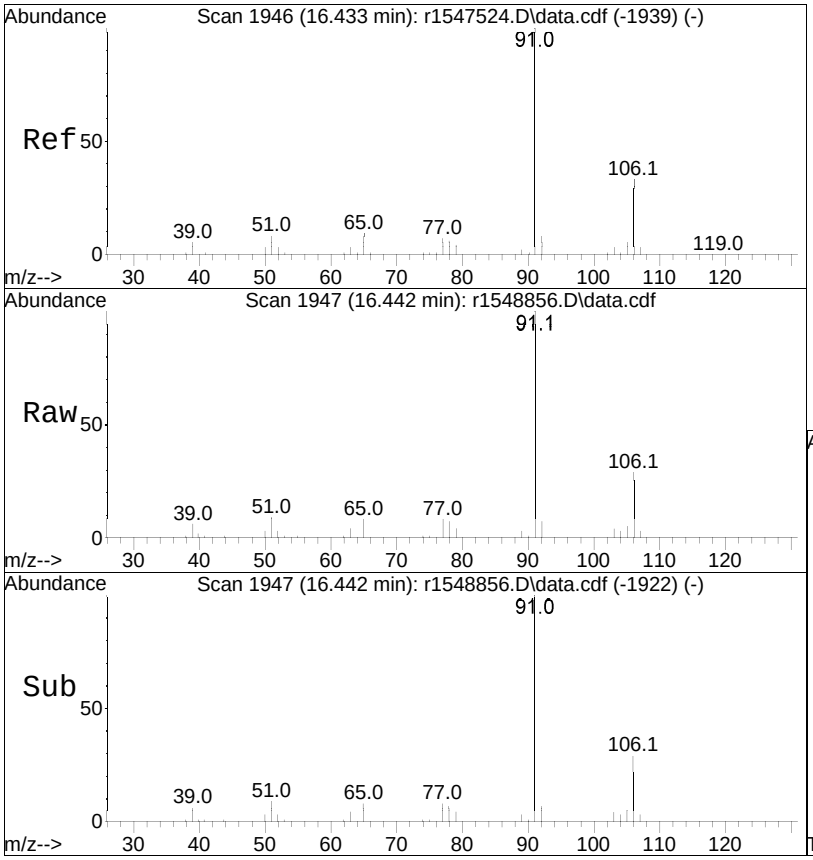


#68
toluene
Concen: 7.76 ppbV
RT: 14.317 min Scan# 1694
Delta R.T. 0.017 min
Lab File: r1548856.D
Acq: 18 Jun 2024 11:43 PM

Tgt Ion: 91 Resp: 664203

Ion	Ratio	Lower	Upper
91	100		
92	63.7	51.6	77.4

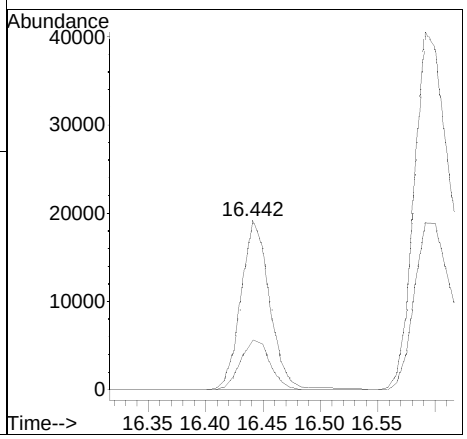


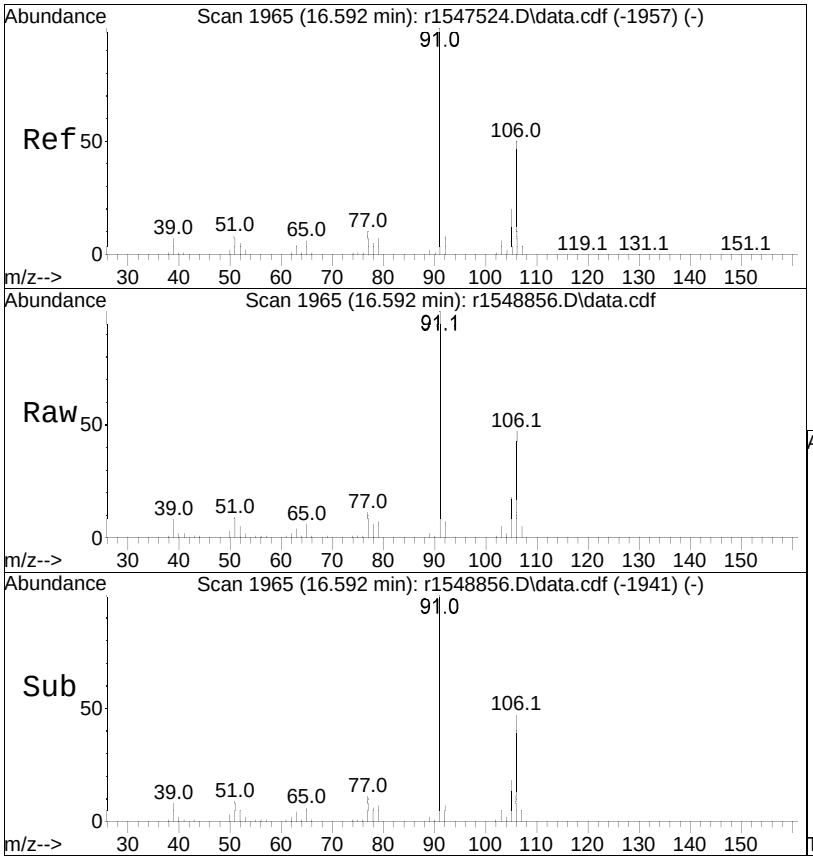


#81
ethylbenzene
Concen: 0.31 ppbV
RT: 16.442 min Scan# 1947
Delta R.T. 0.008 min
Lab File: r1548856.D
Acq: 18 Jun 2024 11:43 PM

Tgt Ion: 91 Resp: 33804

Ion	Ratio	Lower	Upper
91	100		
106	29.4	26.1	39.1

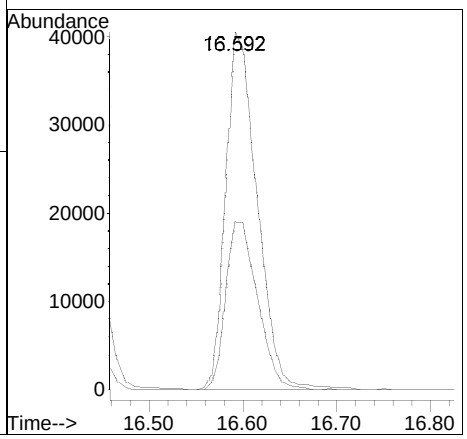


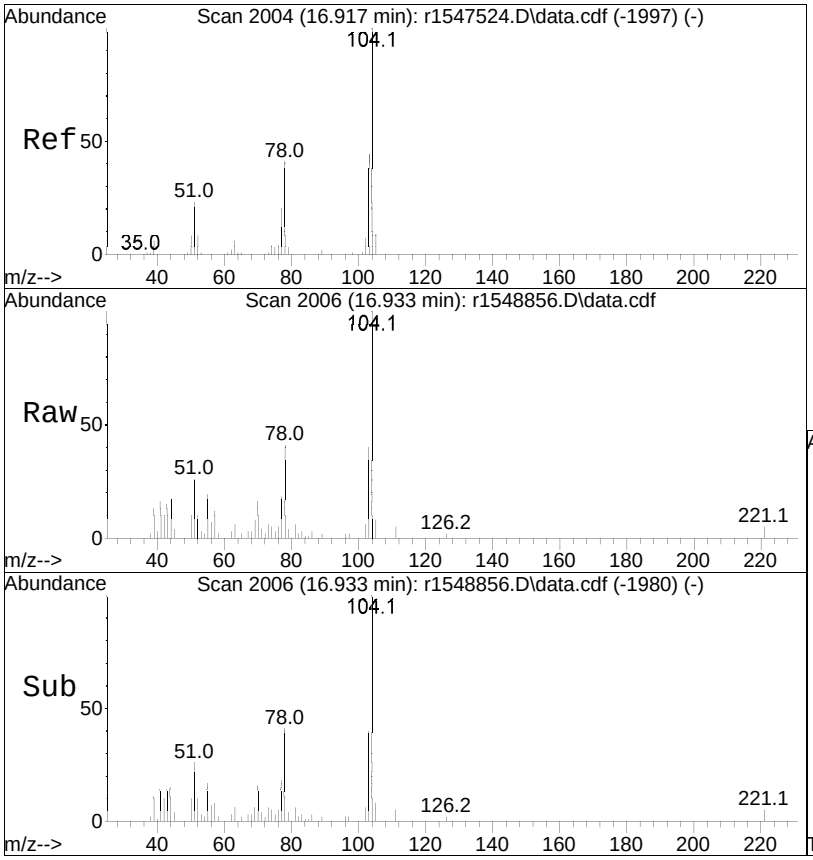


#83
m+p-xylene
Concen: 1.09 ppbV
RT: 16.592 min Scan# 1965
Delta R.T. 0.000 min
Lab File: r1548856.D
Acq: 18 Jun 2024 11:43 PM

Tgt Ion: 91 Resp: 93420

Ion	Ratio	Lower	Upper
91	100		
106	46.9	40.1	60.1

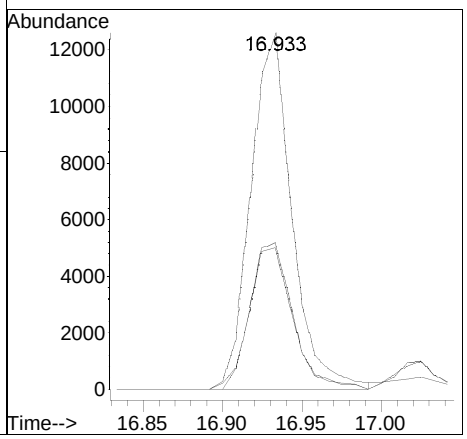


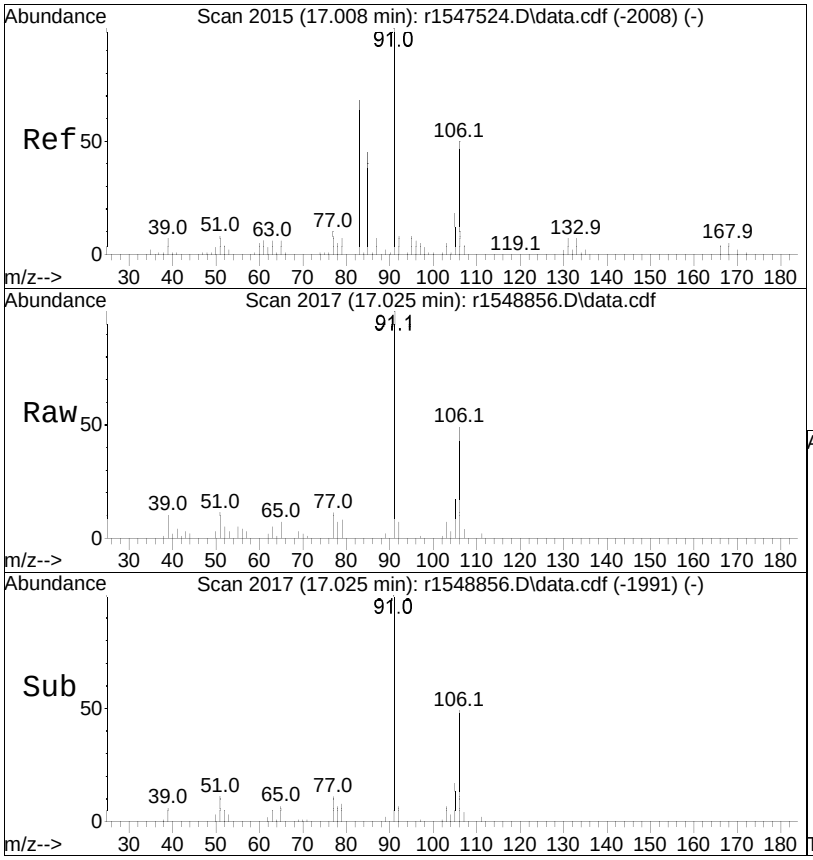


#85
styrene
Concen: 0.33 ppbV
RT: 16.933 min Scan# 2006
Delta R.T. 0.017 min
Lab File: r1548856.D
Acq: 18 Jun 2024 11:43 PM

Tgt Ion:104 Resp: 22586

Ion	Ratio	Lower	Upper
104	100		
103	39.8	35.2	52.8
78	41.1	32.6	48.8

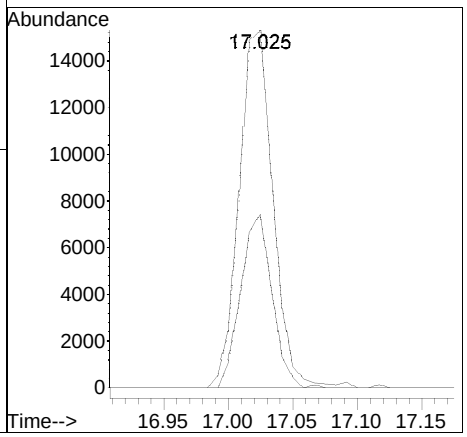


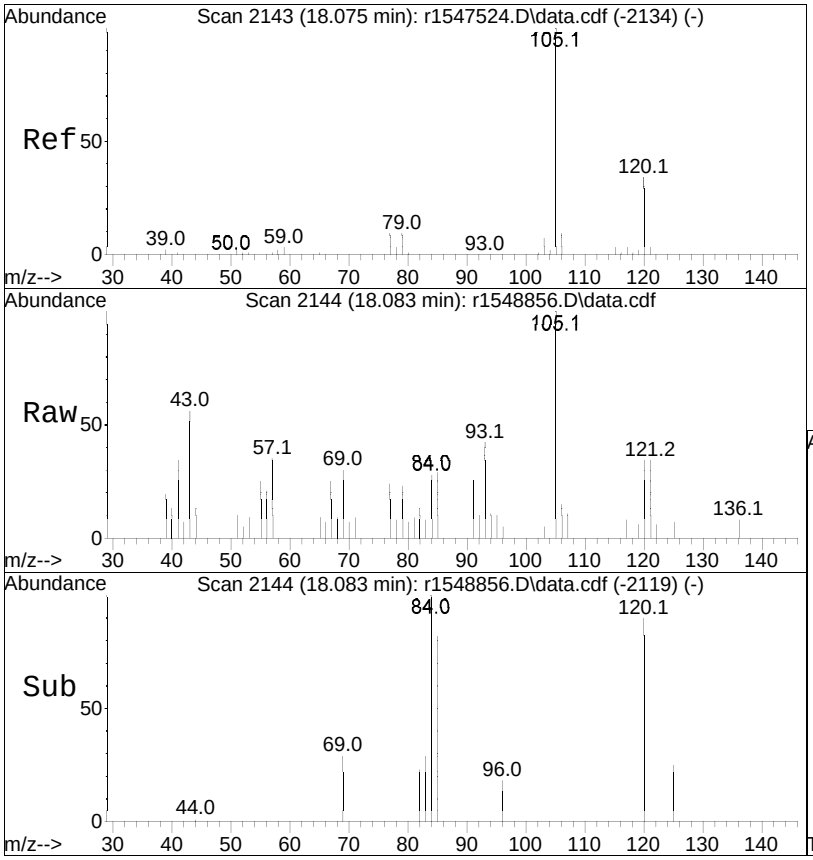


#87
o-xylene
Concen: 0.32 ppbV
RT: 17.025 min Scan# 2017
Delta R.T. 0.017 min
Lab File: r1548856.D
Acq: 18 Jun 2024 11:43 PM

Tgt Ion: 91 Resp: 27876

Ion	Ratio	Lower	Upper
91	100		
106	48.6	39.6	59.4

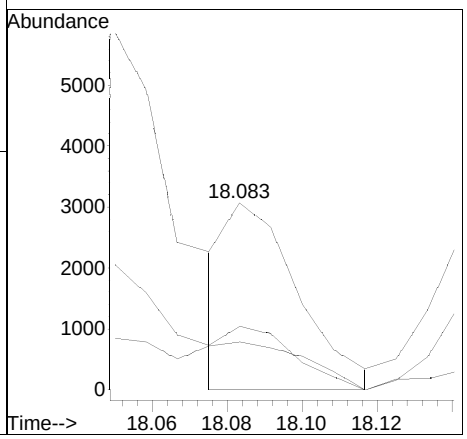


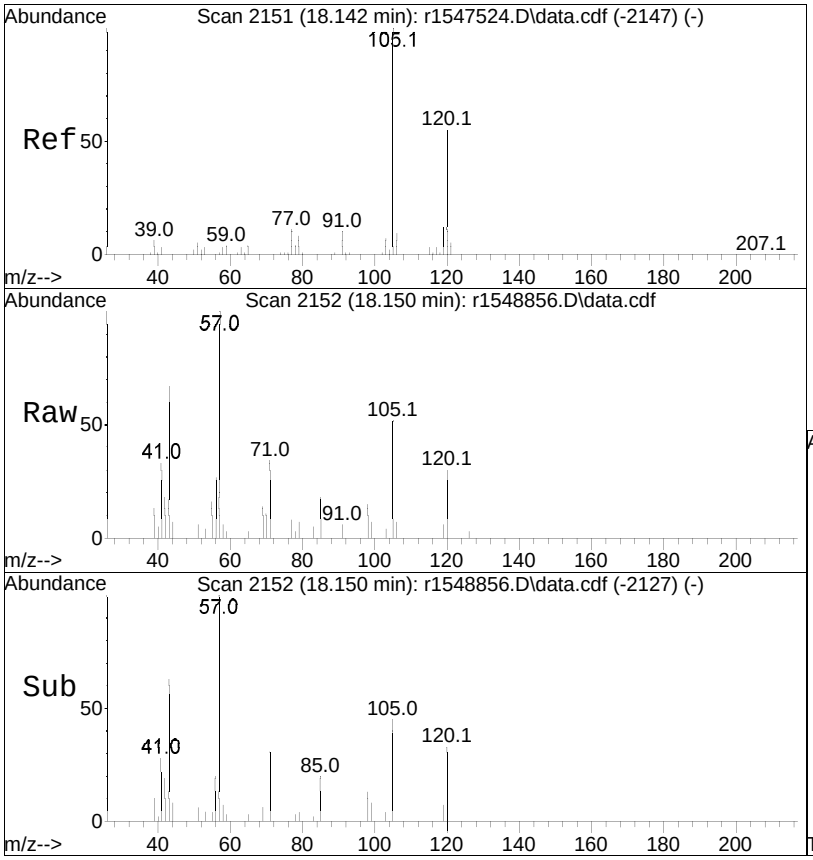


#96
4-ethyl toluene
Concen: 0.04 ppbV m
RT: 18.083 min Scan# 2144
Delta R.T. 0.008 min
Lab File: r1548856.D
Acq: 18 Jun 2024 11:43 PM

Tgt Ion:105 Resp: 4068

Ion	Ratio	Lower	Upper
105	100		
120	34.1	27.2	40.8
91	25.6	7.9	11.9#

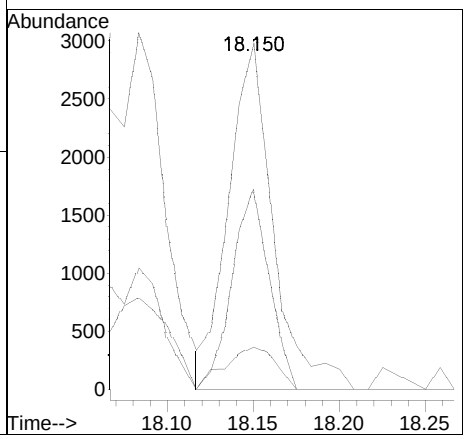


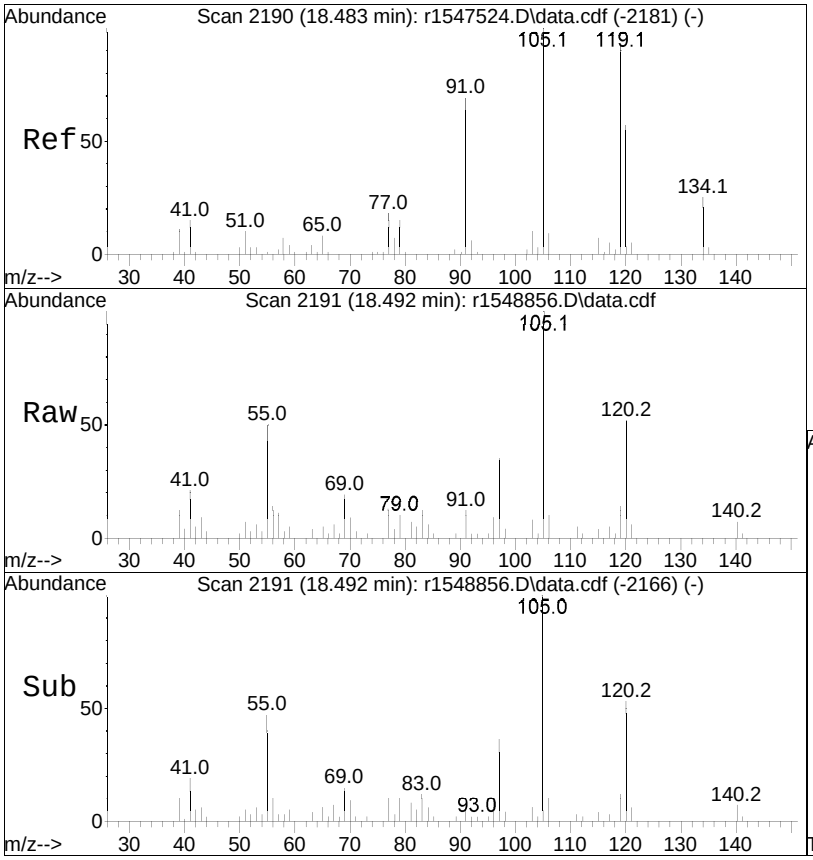


#97
1,3,5-trimethylbenzene
Concen: 0.05 ppbV
RT: 18.150 min Scan# 2152
Delta R.T. 0.008 min
Lab File: r1548856.D
Acq: 18 Jun 2024 11:43 PM

Tgt Ion:105 Resp: 5363

Ion	Ratio	Lower	Upper
105	100		
120	57.9	44.2	66.2
91	12.3	8.0	12.0#

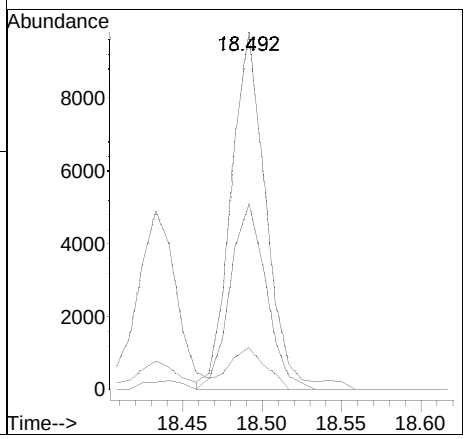


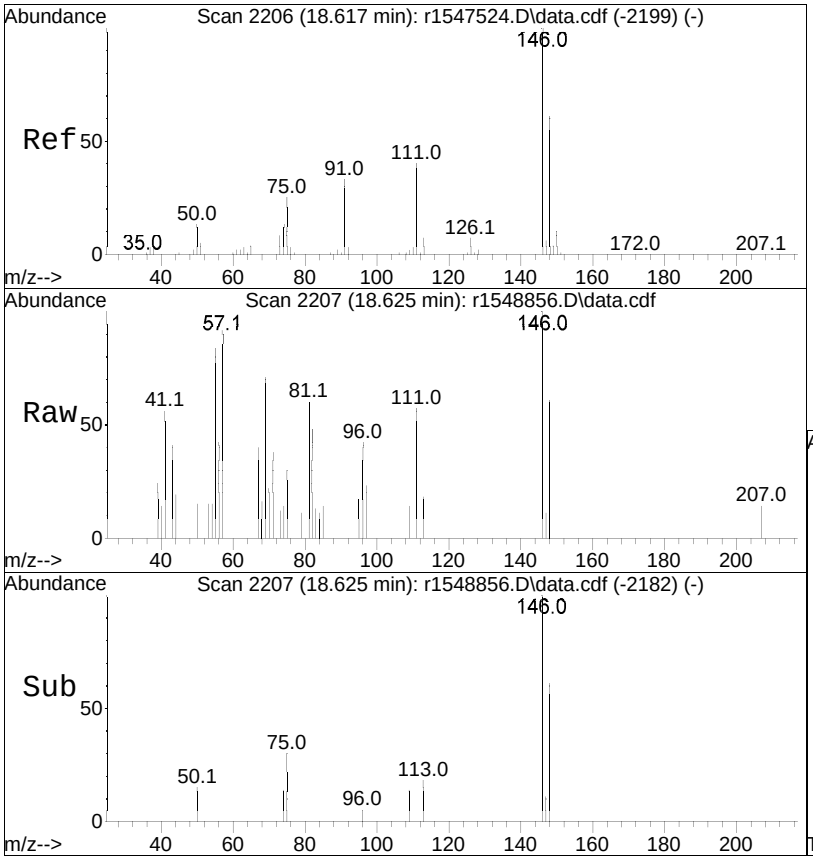


#99
1,2,4-trimethylbenzene
Concen: 0.16 ppbV
RT: 18.492 min Scan# 2191
Delta R.T. 0.008 min
Lab File: r1548856.D
Acq: 18 Jun 2024 11:43 PM

Tgt Ion:105 Resp: 15007

Ion	Ratio	Lower	Upper
105	100		
120	52.2	45.4	68.2
91	11.9	55.0	82.6#

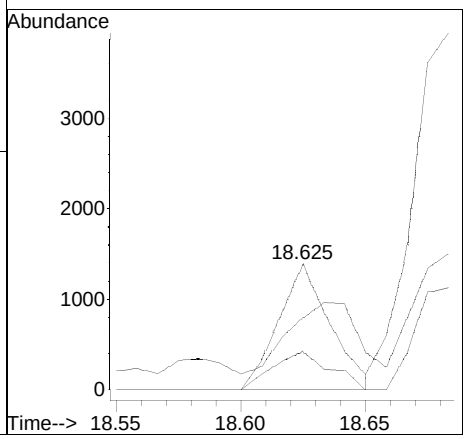


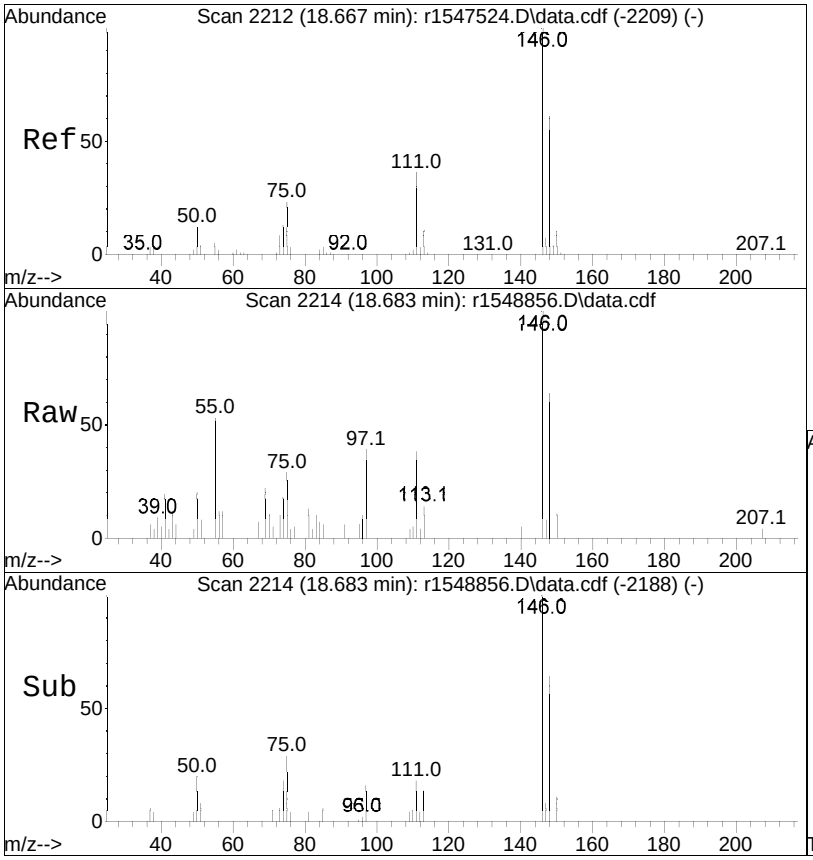


#102
1,3-dichlorobenzene
Concen: 0.03 ppbV m
RT: 18.625 min Scan# 2207
Delta R.T. 0.008 min
Lab File: r1548856.D
Acq: 18 Jun 2024 11:43 PM

Tgt Ion:146 Resp: 2015

Ion	Ratio	Lower	Upper
146	100		
111	56.7	31.8	47.6#
75	30.5	20.1	30.1#

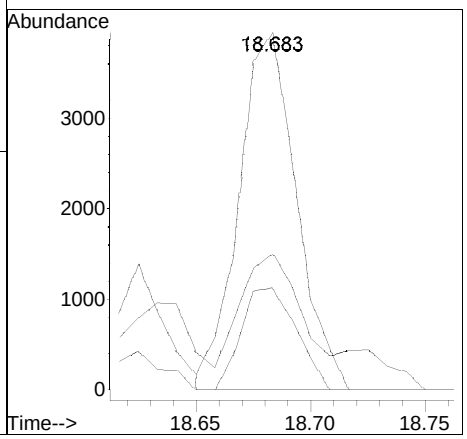


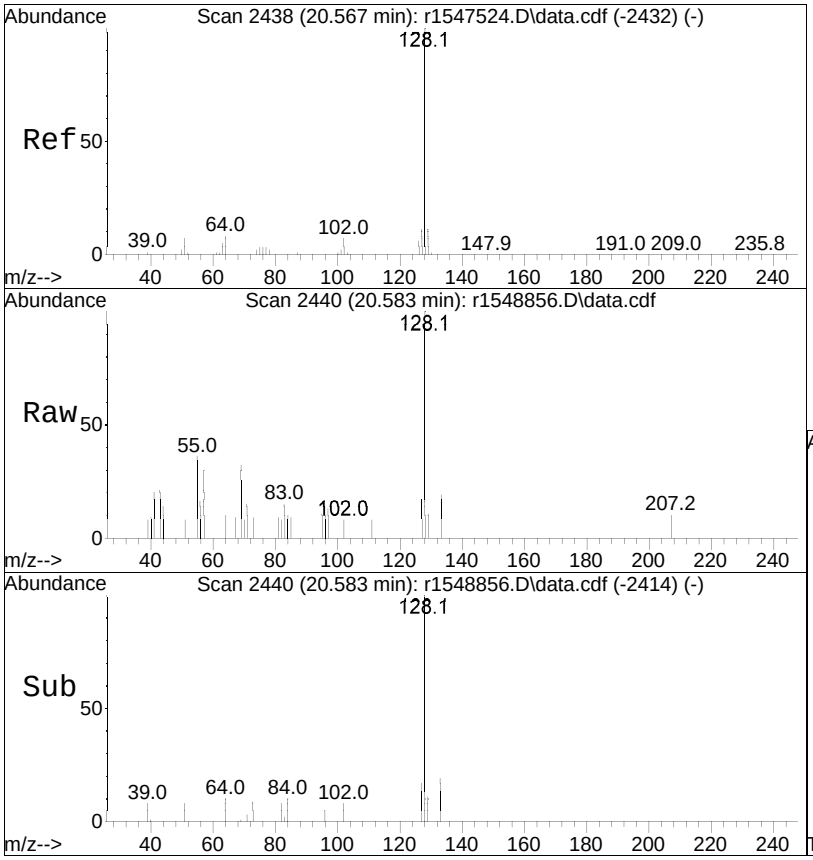


#103
1,4-dichlorobenzene
Concen: 0.10 ppbV
RT: 18.683 min Scan# 2214
Delta R.T. 0.017 min
Lab File: r1548856.D
Acq: 18 Jun 2024 11:43 PM

Tgt Ion:146 Resp: 6850

Ion	Ratio	Lower	Upper
146	100		
111	38.1	28.6	42.8
75	28.5	18.3	27.5#

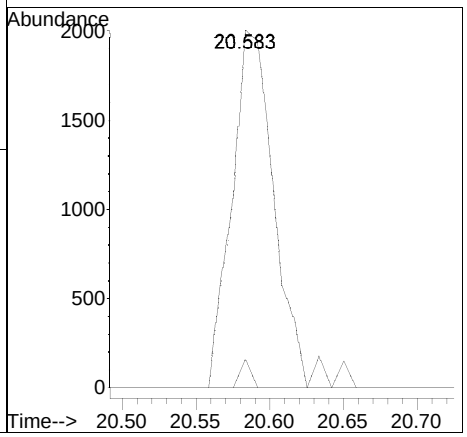




#116
naphthalene
Concen: 0.03 ppbV
RT: 20.583 min Scan# 2440
Delta R.T. 0.017 min
Lab File: r1548856.D
Acq: 18 Jun 2024 11:43 PM

Tgt Ion:128 Resp: 4075

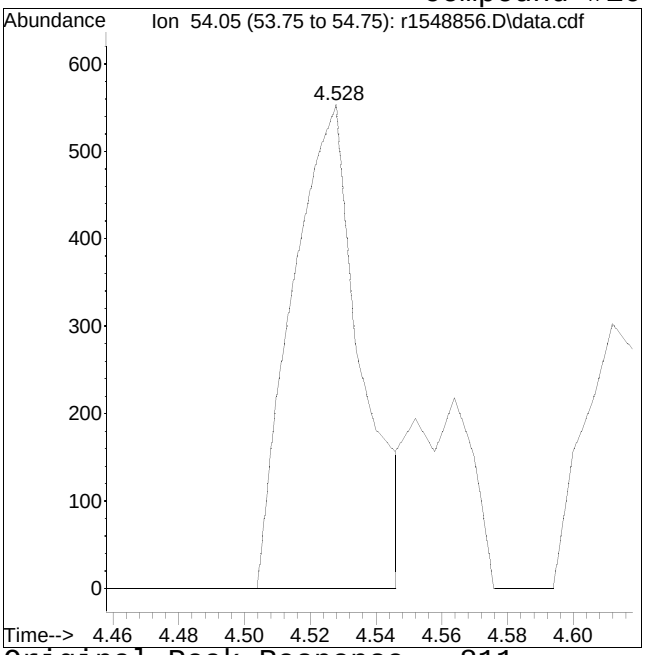
Ion	Ratio	Lower	Upper
128	100		
102	8.1	5.4	8.0#



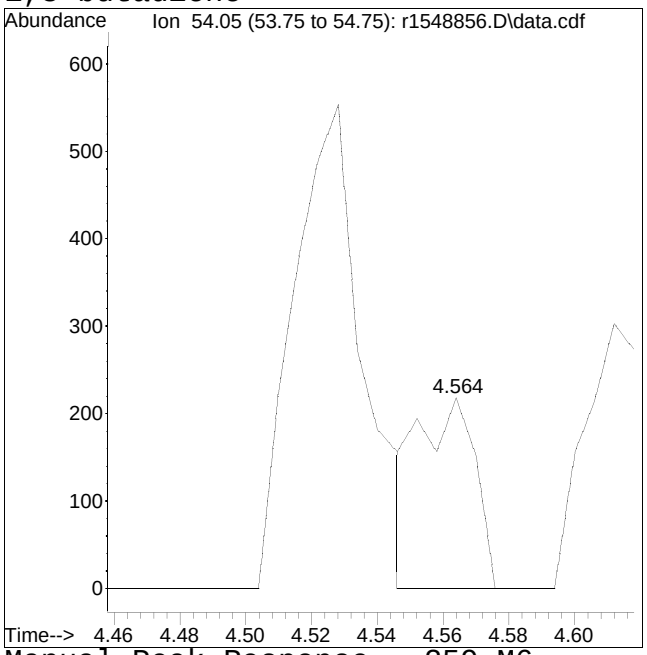
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1548856.D Operator : AIRLAB15:JMB
Date Inj'd : 6/18/2020 0:1: 3 Instrument :
Sample : L2432670-07,3,250,250 Quant Date : 6/19/2024 7:10 am

Compound #10: 1,3-butadiene



Original Peak Response = 811



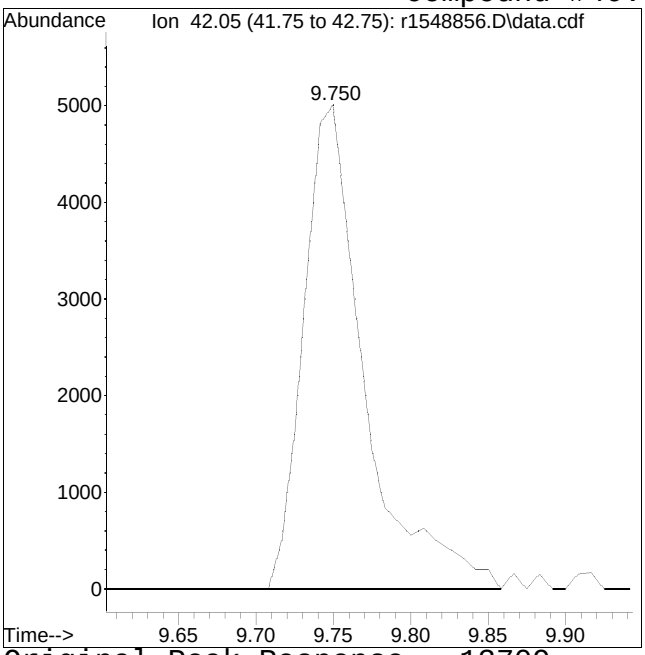
Manual Peak Response = 259 M6

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

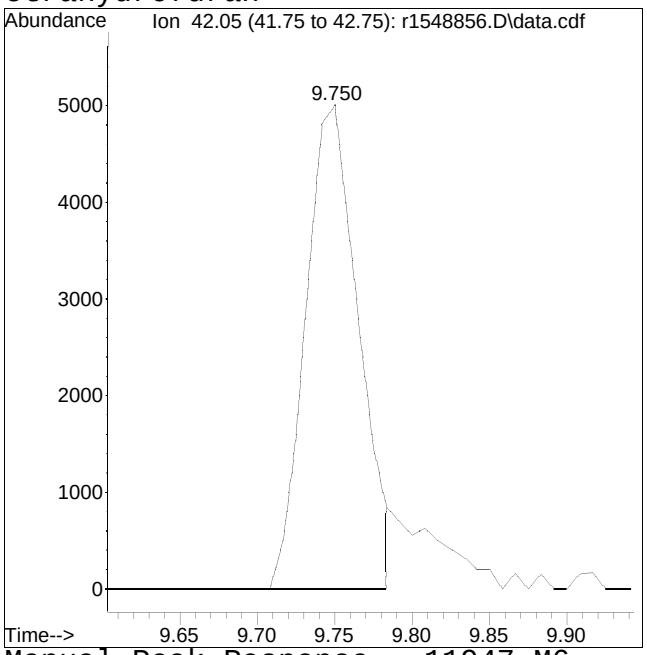
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1548856.D Operator : AIRLAB15:JMB
Date Inj'd : 6/18/2020 0:1: 3 Instrument :
Sample : L2432670-07,3,250,250 Quant Date : 6/19/2024 7:10 am

Compound #40: Tetrahydrofuran



Original Peak Response = 13709



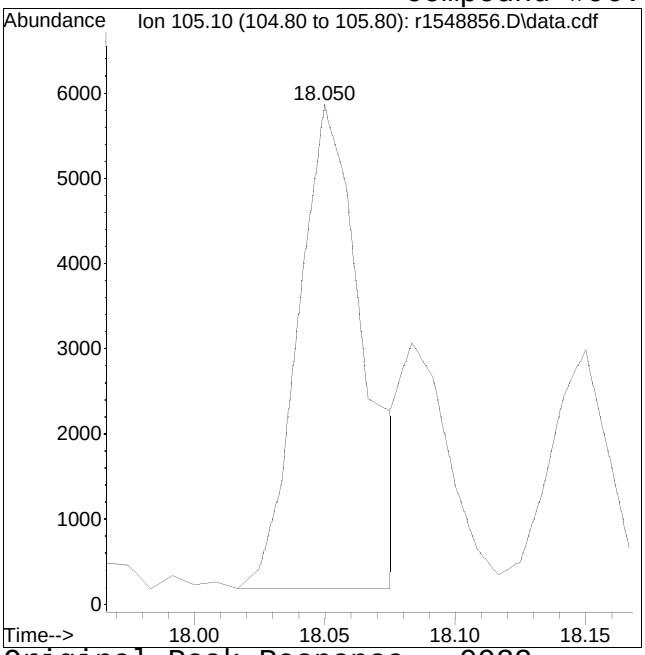
Manual Peak Response = 11947 M6

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

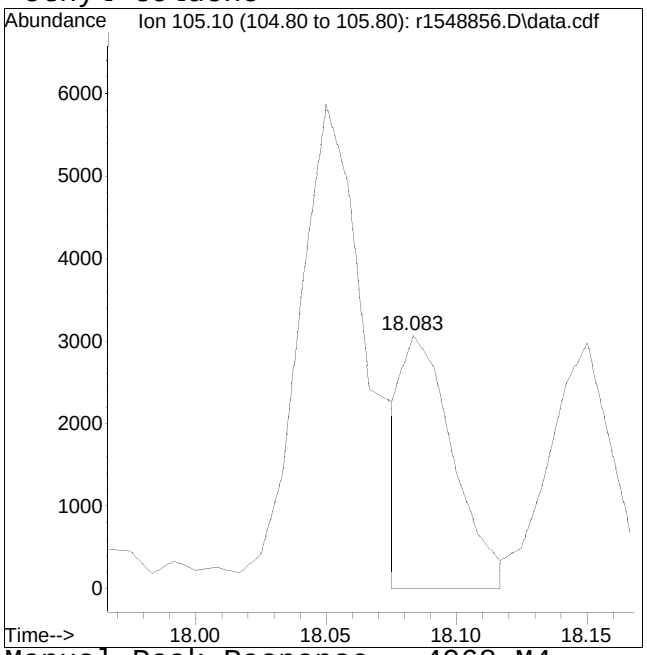
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1548856.D Operator : AIRLAB15:JMB
Date Inj'd : 6/18/2020 0:1: 3 Instrument :
Sample : L2432670-07,3,250,250 Quant Date : 6/19/2024 7:10 am

Compound #96: 4-ethyl toluene



Original Peak Response = 9922



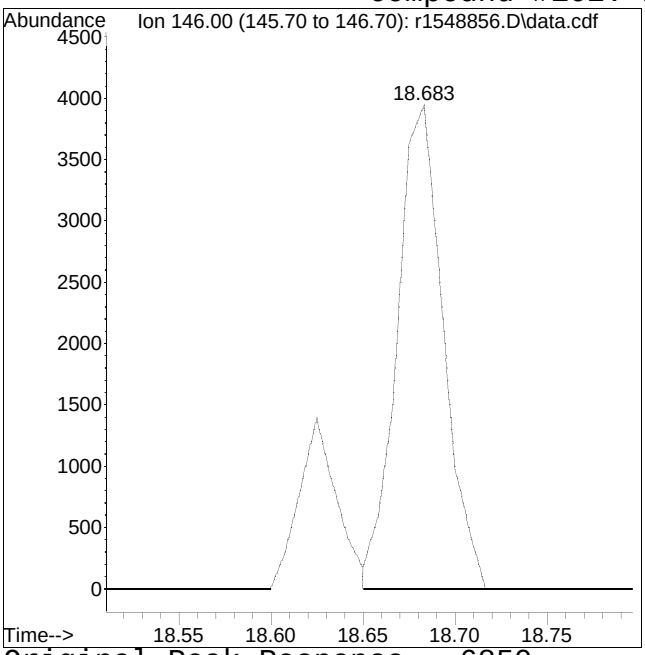
Manual Peak Response = 4068 M4

M4 = Poor automated baseline construction.

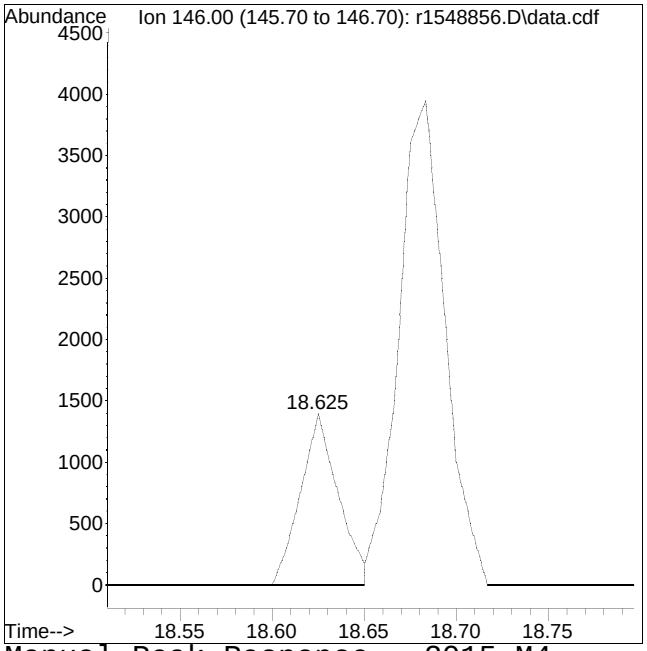
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1548856.D Operator : AIRLAB15:JMB
Date Inj'd : 6/18/2020 0:1: 3 Instrument :
Sample : L2432670-07,3,250,250 Quant Date : 6/19/2024 7:10 am

Compound #102: 1,3-dichlorobenzene



Original Peak Response = 6850



Manual Peak Response = 2015 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548857.D
Acq On : 19 Jun 2024 12:21 AM
Operator : AIRLAB15:JMB
Sample : L2432670-08,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:10:50 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618T\r1548845.D
Sub List : TO15-NY+NAPH-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.142	49	287432	10.000	ppbV	0.02
Standard Area = 309658			Recovery =	92.82%		
43) 1,4-difluorobenzene	11.367	114	733598	10.000	ppbV	0.02
Standard Area = 833704			Recovery =	87.99%		
67) chlorobenzene-D5	16.058	54	135207	10.000	ppbV	0.02
Standard Area = 146665			Recovery =	92.19%		
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.018	85	15307	0.492	ppbV	97
6) chloromethane	4.180	50	7897	0.668	ppbV	97
7) Freon-114	4.288		0	N.D.		
10) 1,3-butadiene	4.540		0	N.D.		
13) bromomethane	4.780		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.176	31	7679653	815.523	ppbV	96
17) vinyl bromide	5.560		0	N.D.		
19) acetone	5.680	43	4536665	238.860	ppbV	100
21) trichlorofluoromethane	5.873	101	6696	0.264	ppbV	99
22) isopropyl alcohol	5.973	45	646657	27.748	ppbV	99
27) tertiary butyl alcohol	6.654	59	7134M6	0.191	ppbV	
28) methylene chloride	6.726	49	6283	0.295	ppbV	92
29) 3-chloropropene	0.000		0	N.D.	d	
30) carbon disulfide	7.026	76	3256	0.060	ppbV #	4
31) Freon 113	7.020	101	2284	0.060	ppbV #	85
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	8.075		0	N.D.		
36) 2-butanone	8.442	43	804861	18.922	ppbV	96
38) Ethyl Acetate	9.225	61	10058	1.230	ppbV #	30
39) chloroform	9.283	83	1152	0.035	ppbV #	78
40) Tetrahydrofuran	9.733	42	191228	7.107	ppbV	94
42) 1,2-dichloroethane	10.133		0	N.D.		
44) hexane	9.208	57	7208	0.225	ppbV #	1
50) benzene	10.947	78	9663	0.171	ppbV	95
53) cyclohexane	11.267	56	15167	0.441	ppbV	94
56) 1,2-dichloropropane	11.880		0	N.D.		

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548857.D
Acq On : 19 Jun 2024 12:21 AM
Operator : AIRLAB15:JMB
Sample : L2432670-08,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:10:50 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618T\r1548845.D
Sub List : TO15-NY+NAPH-7-SIM - .

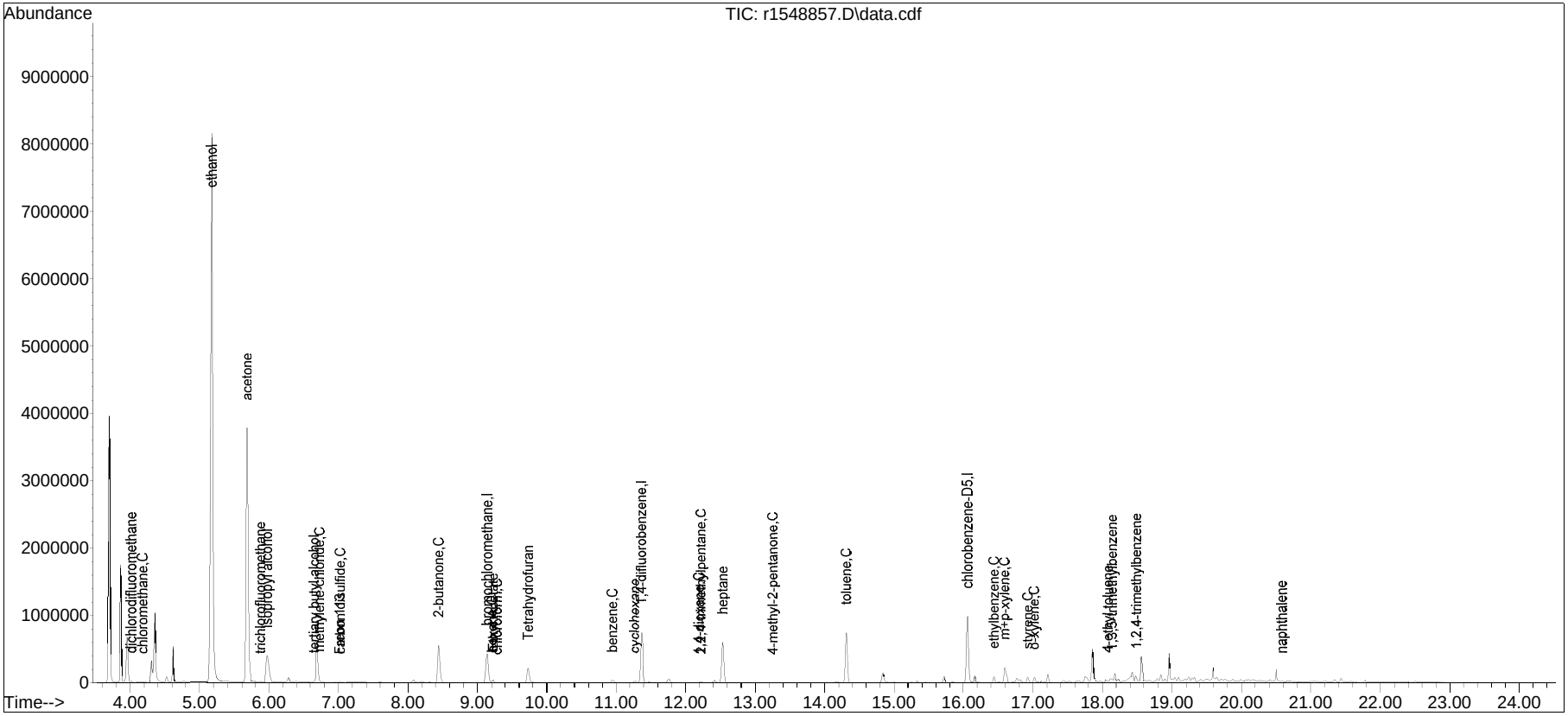
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
57) bromodichloromethane	12.213		0	N.D.	
58) 1,4-dioxane	12.193	88	1582	0.122 ppbV	99
60) 2,2,4-trimethylpentane	12.220	57	17262	0.161 ppbV #	91
62) heptane	12.533	43	306770	8.589 ppbV	97
63) cis-1,3-dichloropropene	0.000		0	N.D.	
64) 4-methyl-2-pentanone	13.250	43	4144	0.102 ppbV #	75
65) trans-1,3-dichloropropene	0.000		0	N.D.	
66) 1,1,2-trichloroethane	0.000		0	N.D.	
68) toluene	14.308	91	624375	7.335 ppbV	98
72) 2-hexanone	0.000		0	N.D. d	
74) dibromochloromethane	0.000		0	N.D.	
75) 1,2-dibromoethane	0.000		0	N.D.	
80) chlorobenzene	16.108		0	N.D.	
81) ethylbenzene	16.442	91	71292	0.654 ppbV	98
83) m+p-xylene	16.592	91	186908	2.189 ppbV	95
84) bromoform	16.675		0	N.D.	
85) styrene	16.925	104	28098	0.418 ppbV	98
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D. d	
87) o-xylene	17.017	91	49275	0.577 ppbV	93
96) 4-ethyl toluene	18.083	105	5103M4	0.045 ppbV	
97) 1,3,5-trimethylbenzene	18.142	105	5352	0.049 ppbV #	95
99) 1,2,4-trimethylbenzene	18.492	105	16038	0.173 ppbV #	58
101) Benzyl Chloride	18.625		0	N.D.	
102) 1,3-dichlorobenzene	0.000		0	N.D. d	
103) 1,4-dichlorobenzene	18.683		0	N.D.	
107) 1,2-dichlorobenzene	0.000		0	N.D.	
115) 1,2,4-trichlorobenzene	0.000		0	N.D.	
116) naphthalene	20.583	128	7618	0.062 ppbV	99
119) hexachlorobutadiene	0.000		0	N.D.	

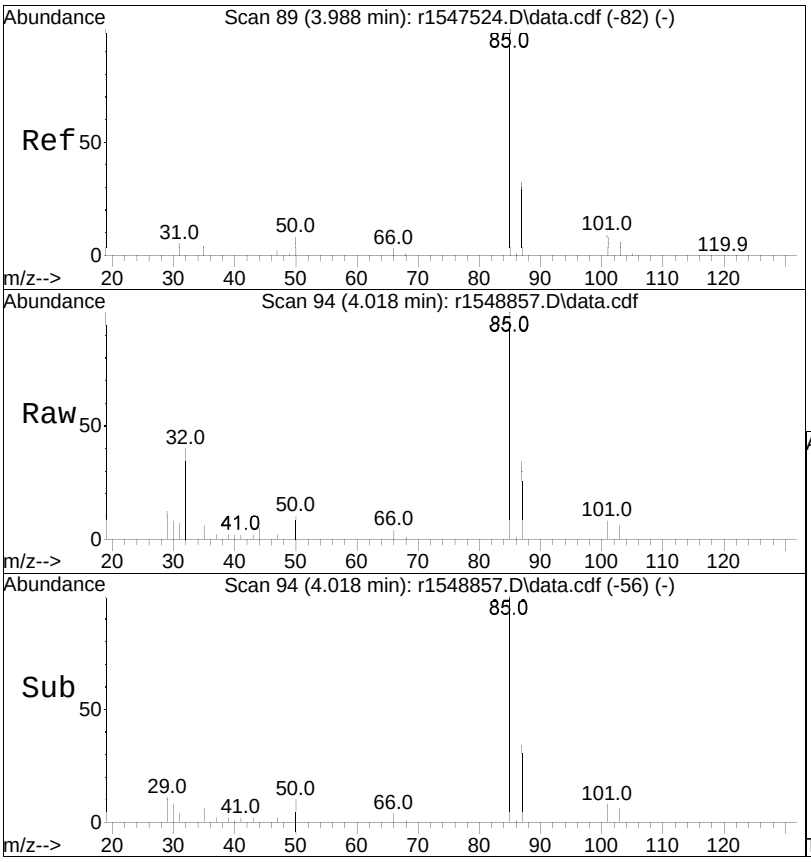
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY+NAPH-7-SIM - .ab15\2024\06\0618T\r1548845.D

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548857.D
Acq On : 19 Jun 2024 12:21 AM
Operator : AIRLAB15:JMB
Sample : L2432670-08,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:10:50 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

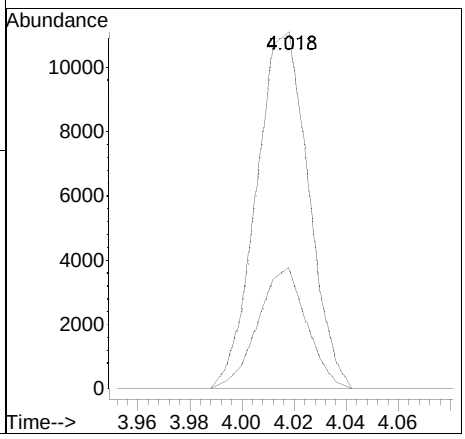


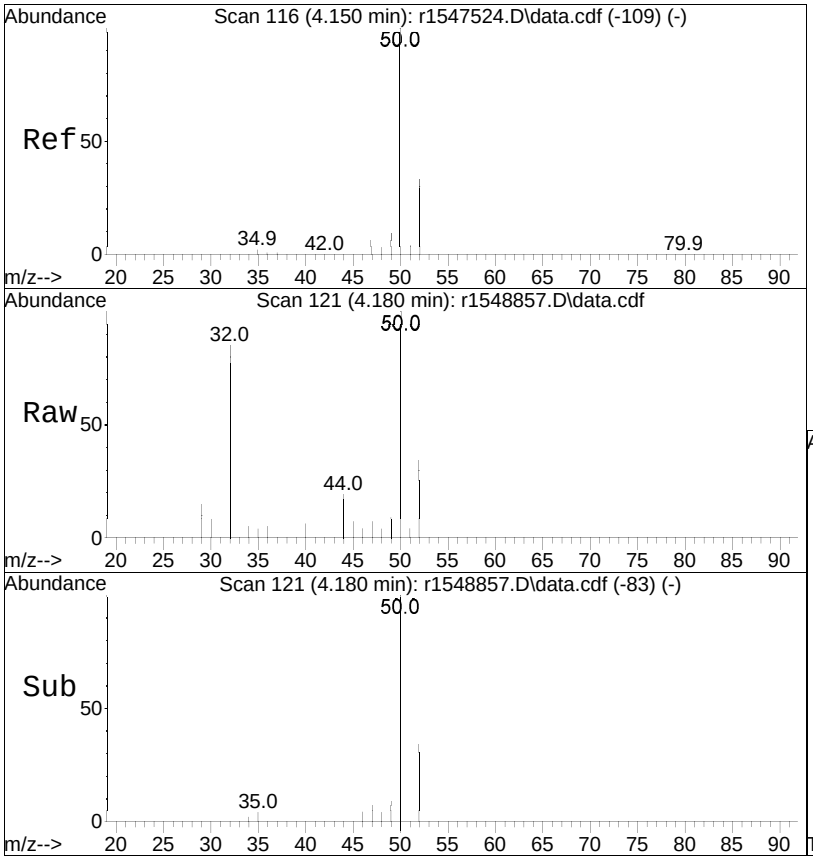


#5
dichlorodifluoromethane
Concen: 0.49 ppbV
RT: 4.018 min Scan# 94
Delta R.T. 0.030 min
Lab File: r1548857.D
Acq: 19 Jun 2024 12:21 AM

Tgt Ion: 85 Resp: 15307

Ion	Ratio	Lower	Upper
85	100		
87	34.0	25.8	38.8

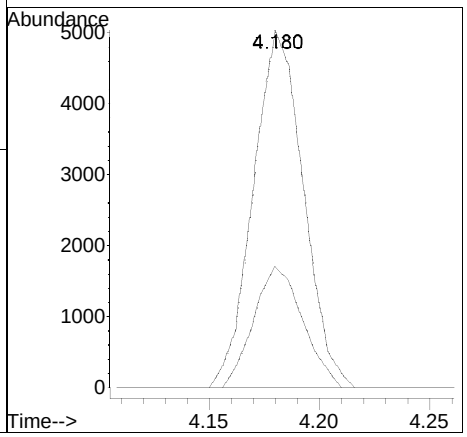


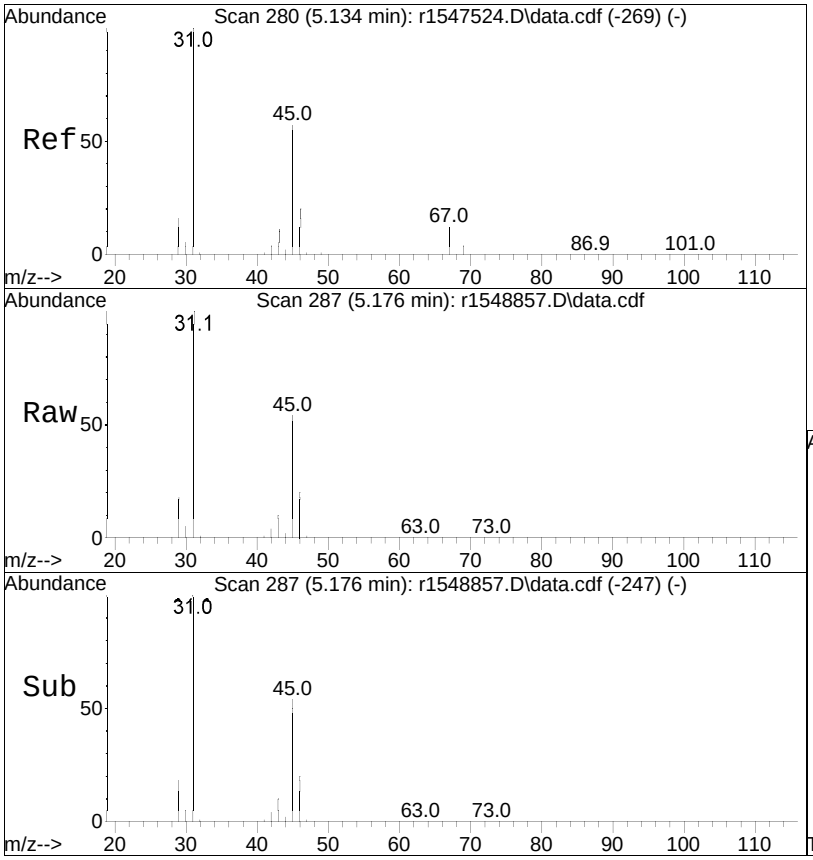


#6
chloromethane
Concen: 0.67 ppbV
RT: 4.180 min Scan# 121
Delta R.T. 0.030 min
Lab File: r1548857.D
Acq: 19 Jun 2024 12:21 AM

Tgt Ion: 50 Resp: 7897

Ion	Ratio	Lower	Upper
50	100		
52	34.1	26.0	39.0

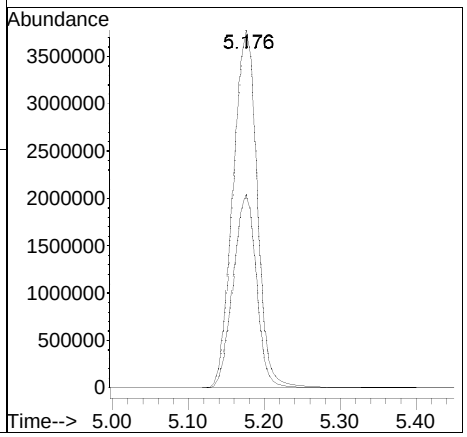


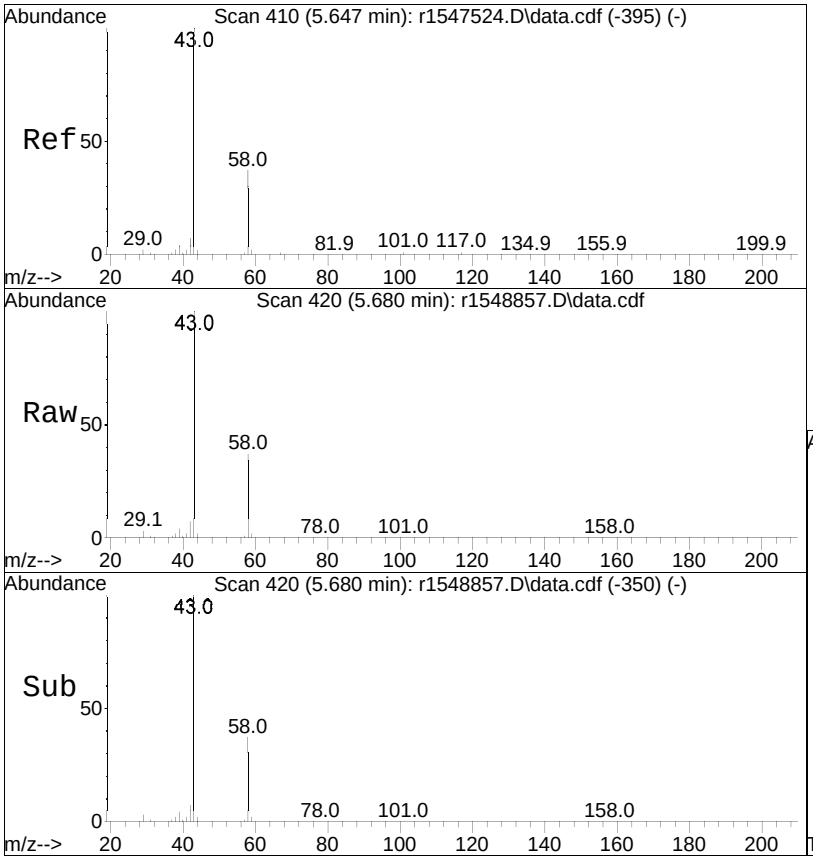


#15
ethanol
Concen: 815.52 ppbV
RT: 5.176 min Scan# 287
Delta R.T. 0.042 min
Lab File: r1548857.D
Acq: 19 Jun 2024 12:21 AM

Tgt Ion: 31 Resp: 7679653

Ion	Ratio	Lower	Upper
31	100		
45	54.1	45.7	68.5

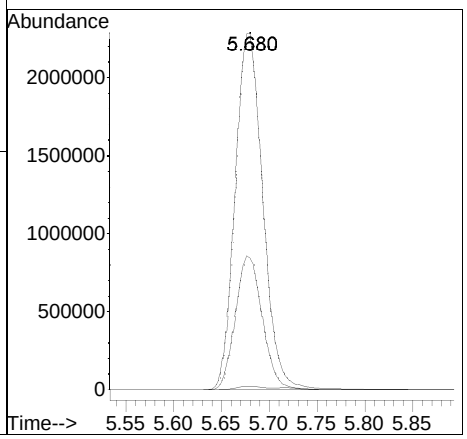


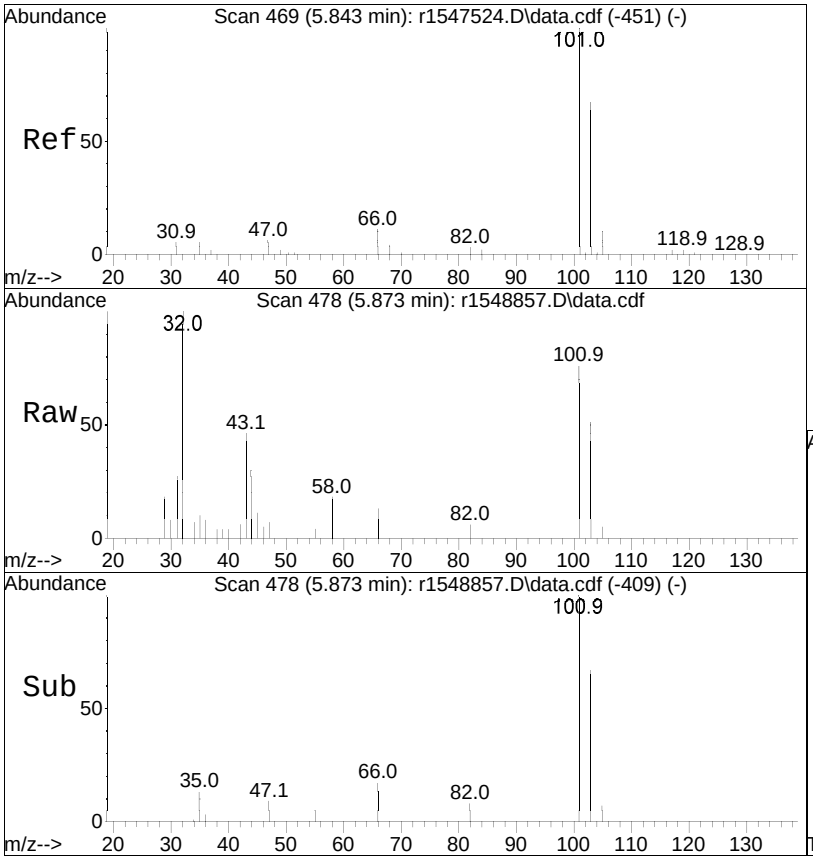


#19
acetone
Concen: 238.86 ppbV
RT: 5.680 min Scan# 420
Delta R.T. 0.033 min
Lab File: r1548857.D
Acq: 19 Jun 2024 12:21 AM

Tgt Ion: 43 Resp: 4536665

Ion	Ratio	Lower	Upper
43	100		
58	36.9	29.4	44.0
57	0.9	0.7	1.1

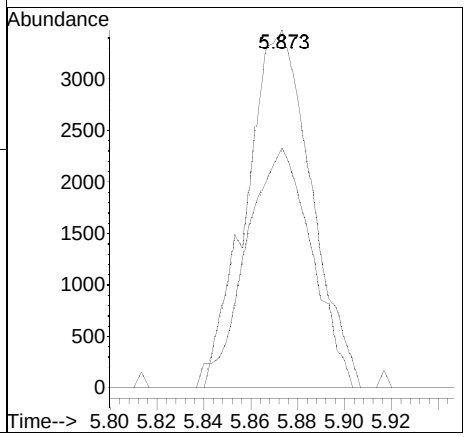


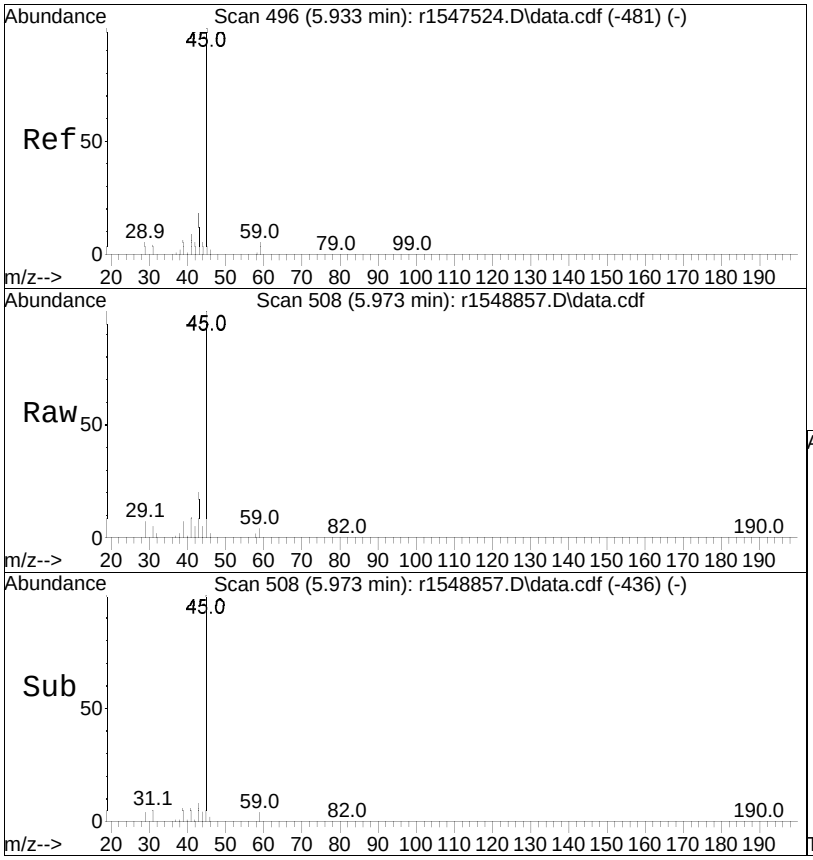


#21
trichlorofluoromethane
Concen: 0.26 ppbV
RT: 5.873 min Scan# 478
Delta R.T. 0.030 min
Lab File: r1548857.D
Acq: 19 Jun 2024 12:21 AM

Tgt Ion:101 Resp: 6696

Ion	Ratio	Lower	Upper
101	100		
103	67.1	53.4	80.0

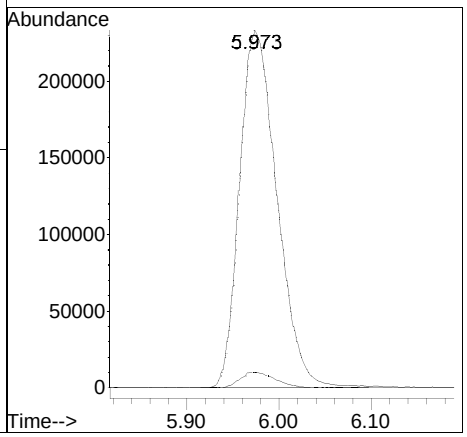


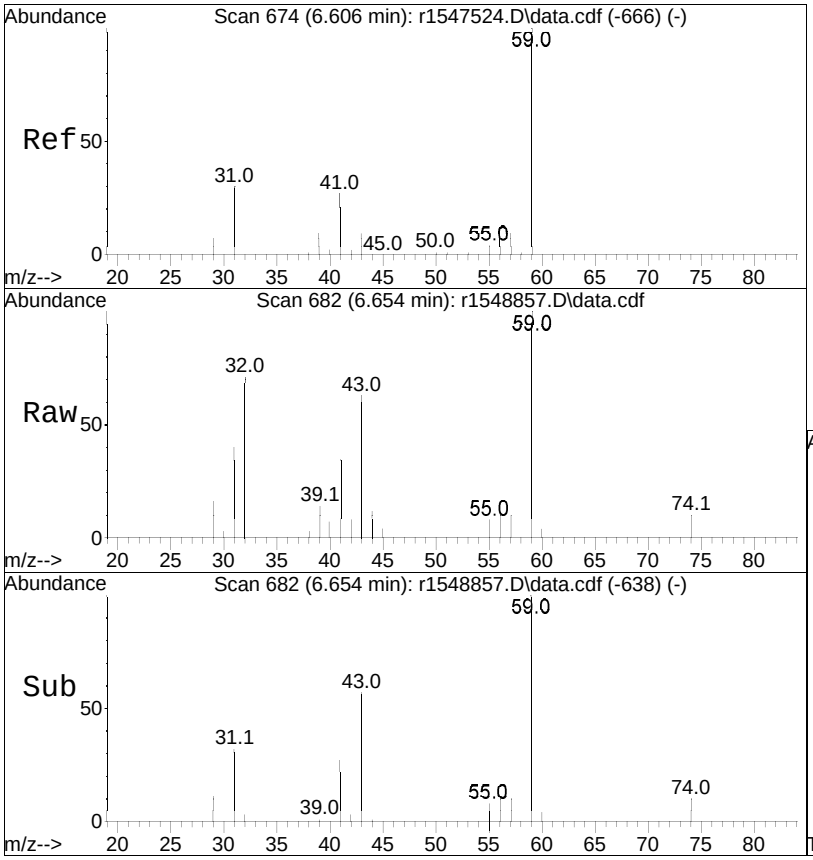


#22
isopropyl alcohol
Concen: 27.75 ppbV
RT: 5.973 min Scan# 508
Delta R.T. 0.040 min
Lab File: r1548857.D
Acq: 19 Jun 2024 12:21 AM

Tgt Ion: 45 Resp: 646657

Ion	Ratio	Lower	Upper
45	100		
59	4.4	3.8	5.6

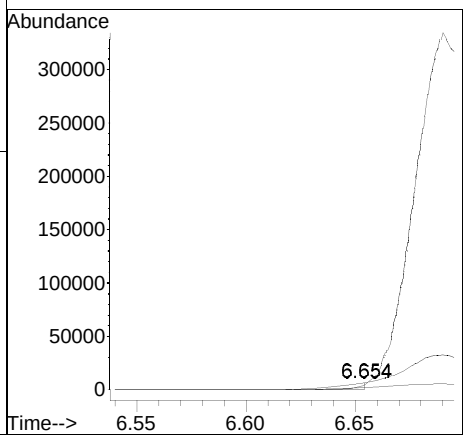


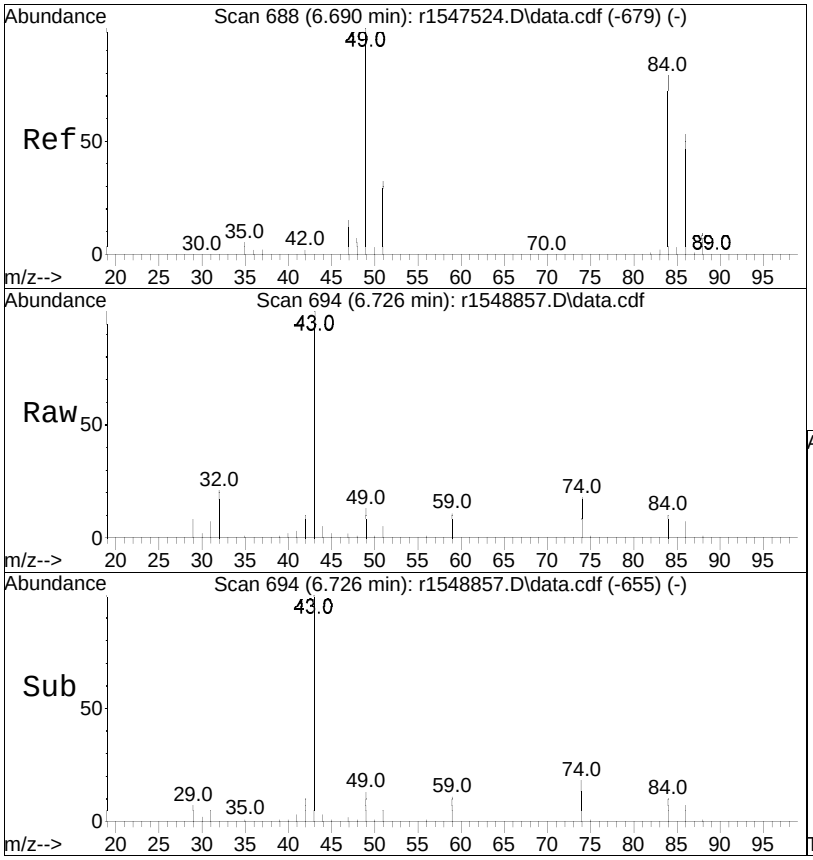


#27
tertiary butyl alcohol
Concen: 0.19 ppbV m
RT: 6.654 min Scan# 682
Delta R.T. 0.048 min
Lab File: r1548857.D
Acq: 19 Jun 2024 12:21 AM

Tgt Ion: 59 Resp: 7134

Ion	Ratio	Lower	Upper
59	100		
41	35.1	21.3	31.9#
43	63.4	7.4	11.0#

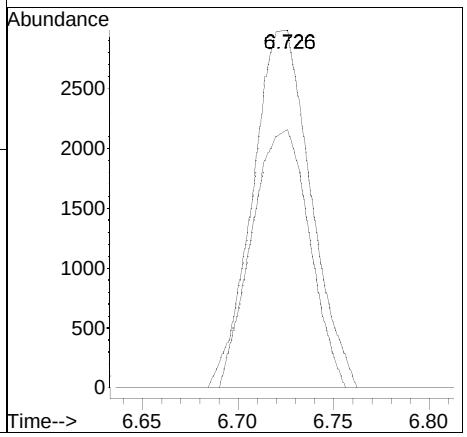


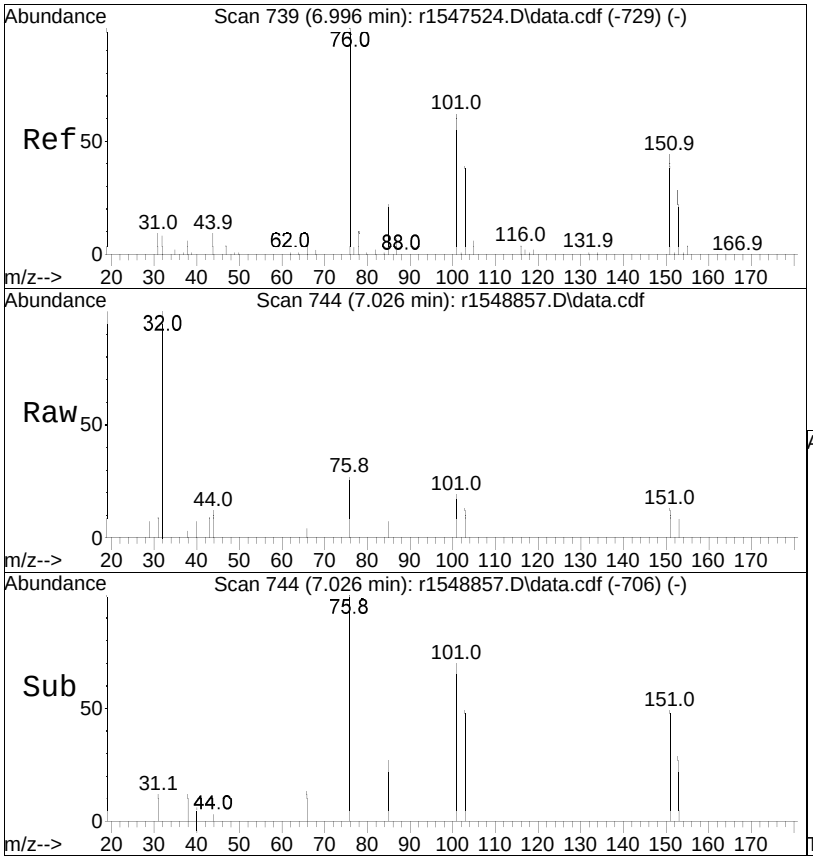


#28
methylene chloride
Concen: 0.29 ppbV
RT: 6.726 min Scan# 694
Delta R.T. 0.036 min
Lab File: r1548857.D
Acq: 19 Jun 2024 12:21 AM

Tgt Ion: 49 Resp: 6283

Ion	Ratio	Lower	Upper
49	100		
84	72.3	63.4	95.2

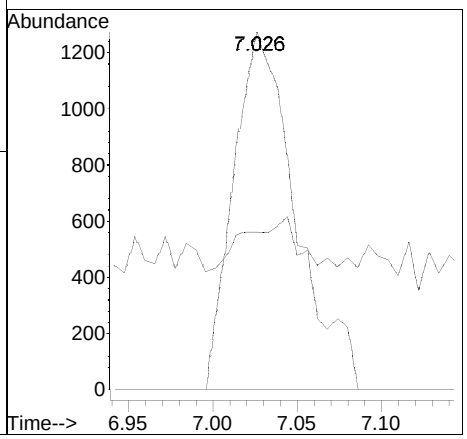


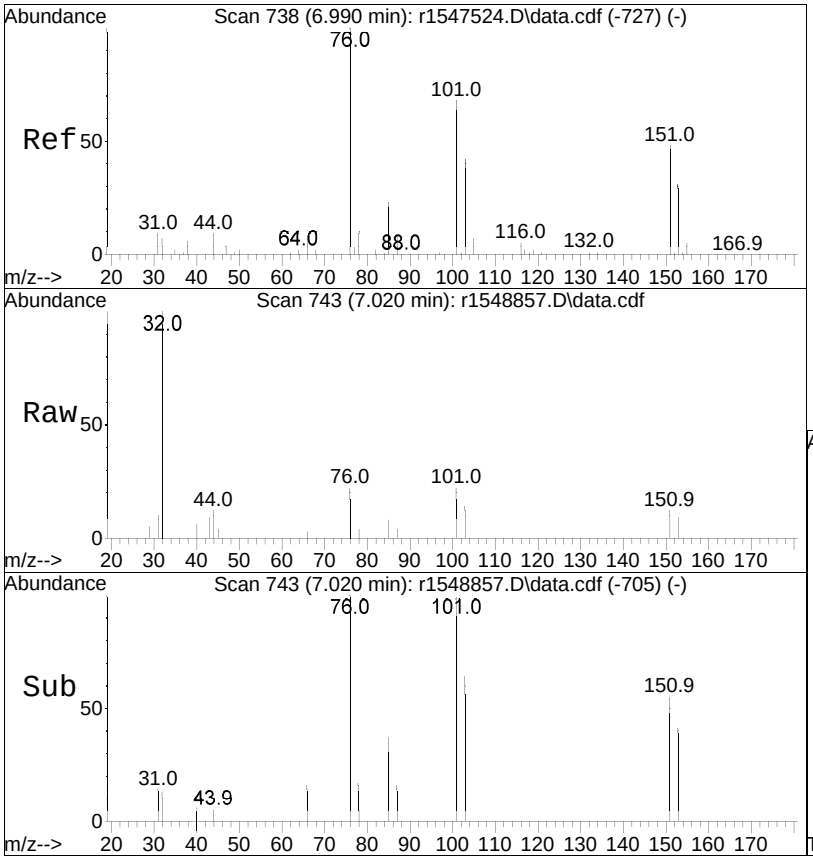


#30
carbon disulfide
Concen: 0.06 ppbV
RT: 7.026 min Scan# 744
Delta R.T. 0.030 min
Lab File: r1548857.D
Acq: 19 Jun 2024 12:21 AM

Tgt Ion: 76 Resp: 3256

Ion	Ratio	Lower	Upper
76	100		
44	44.4	7.5	11.3#

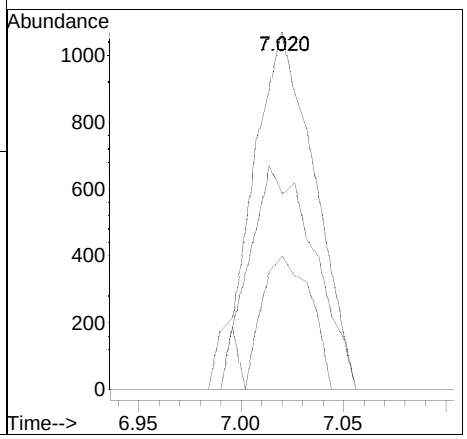


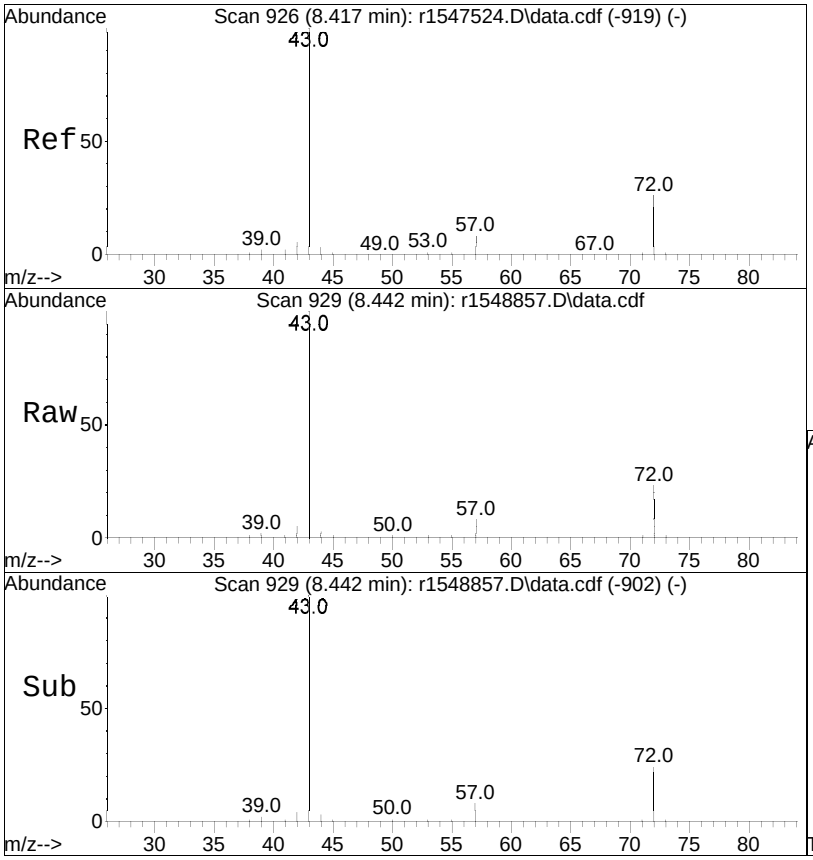


#31
Freon 113
Concen: 0.06 ppbV
RT: 7.020 min Scan# 743
Delta R.T. 0.030 min
Lab File: r1548857.D
Acq: 19 Jun 2024 12:21 AM

Tgt Ion:101 Resp: 2284

Ion	Ratio	Lower	Upper
101	100		
85	37.3	27.6	41.4
151	54.8	56.9	85.3#

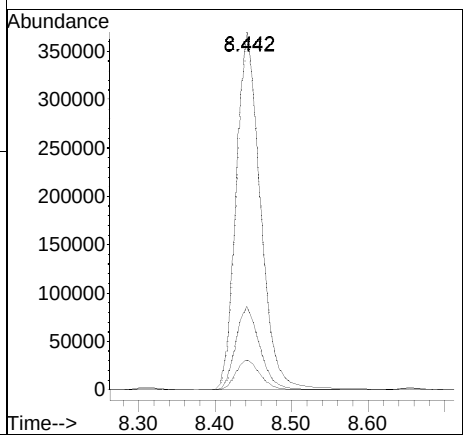


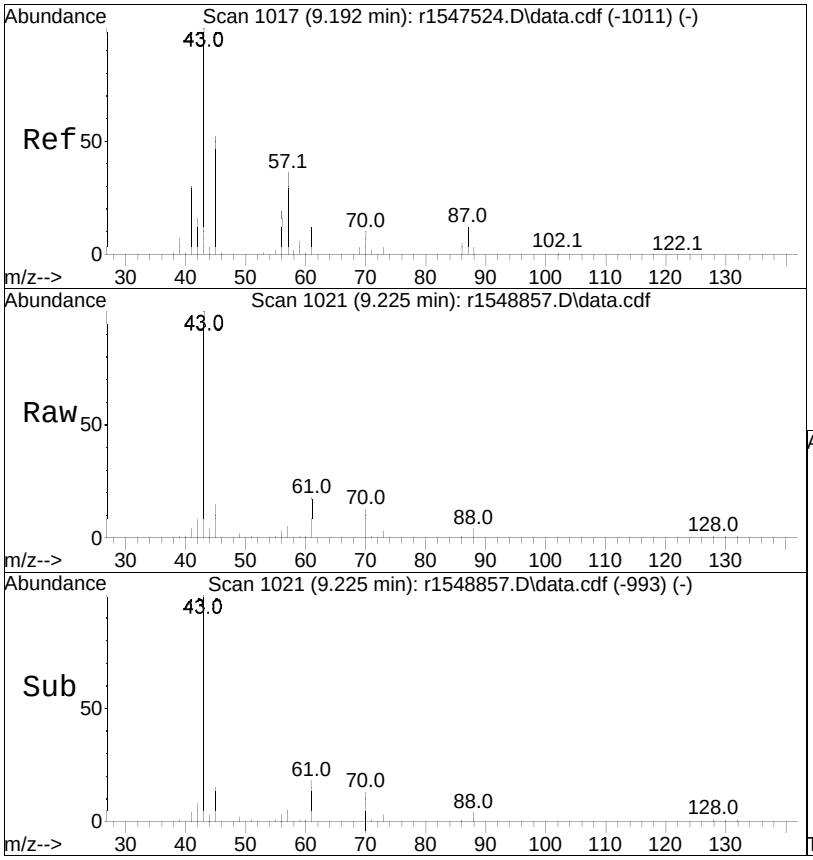


#36
2-butanone
Concen: 18.92 ppbV
RT: 8.442 min Scan# 929
Delta R.T. 0.025 min
Lab File: r1548857.D
Acq: 19 Jun 2024 12:21 AM

Tgt Ion: 43 Resp: 804861

Ion	Ratio	Lower	Upper
43	100		
72	23.3	20.9	31.3
57	8.3	6.6	10.0

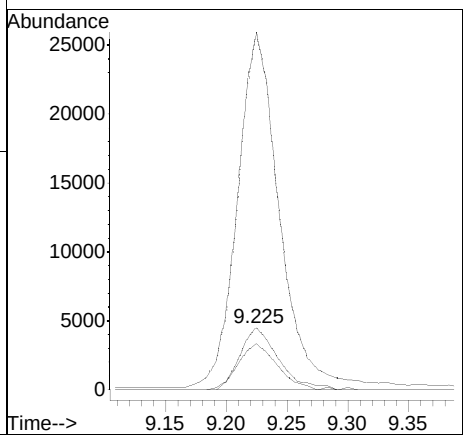


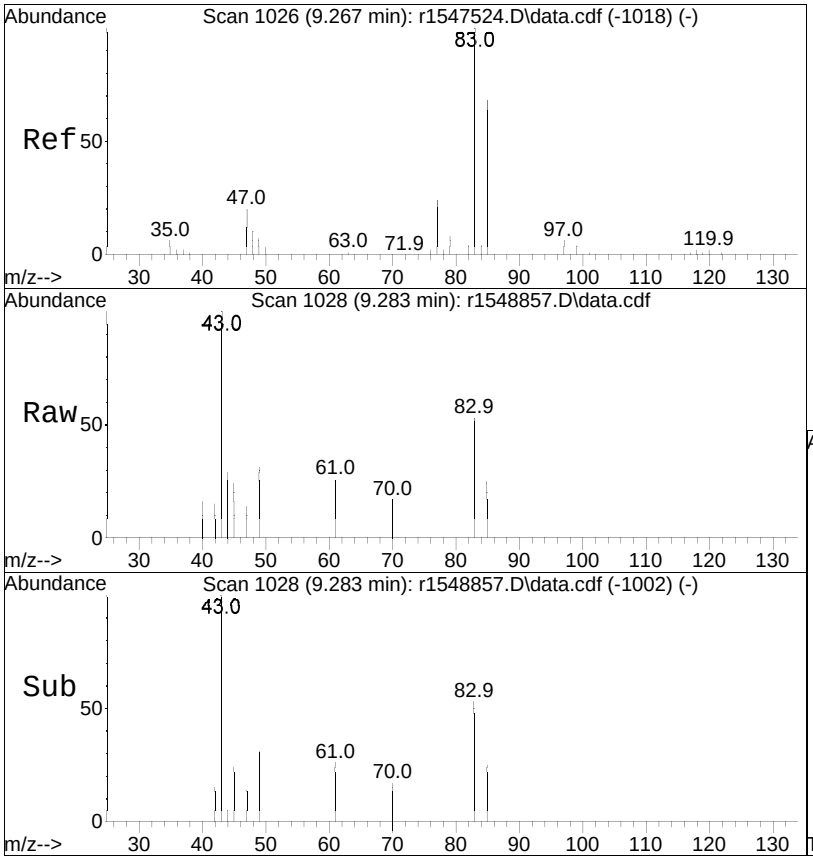


#38
Ethyl Acetate
Concen: 1.23 ppbV
RT: 9.225 min Scan# 1021
Delta R.T. 0.033 min
Lab File: r1548857.D
Acq: 19 Jun 2024 12:21 AM

Tgt Ion: 61 Resp: 10058

Ion	Ratio	Lower	Upper
61	100		
70	74.2	67.9	101.9
43	571.1	703.5	1055.3#

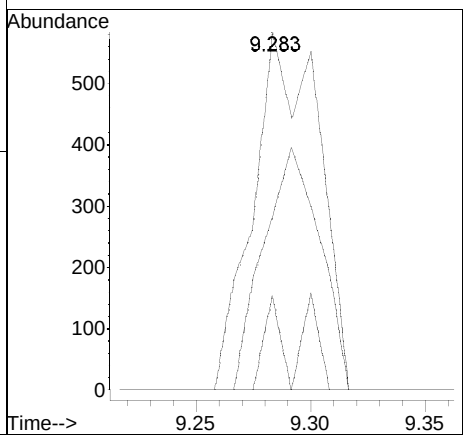


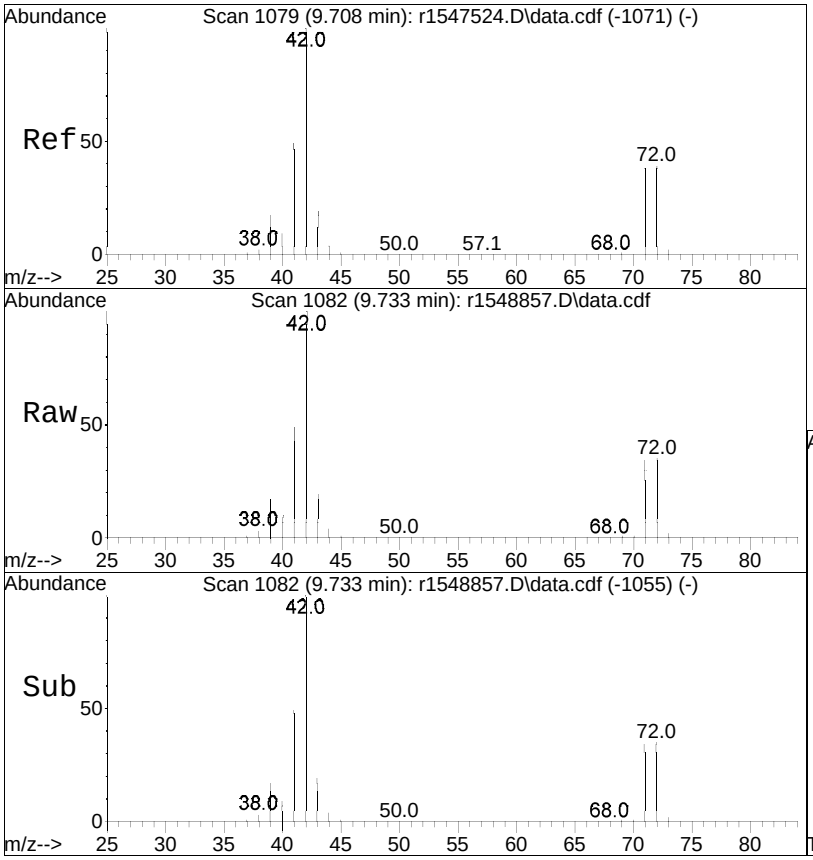


#39
chloroform
Concen: 0.03 ppbV
RT: 9.283 min Scan# 1028
Delta R.T. 0.017 min
Lab File: r1548857.D
Acq: 19 Jun 2024 12:21 AM

Tgt Ion: 83 Resp: 1152

Ion	Ratio	Lower	Upper
83	100		
85	47.9	54.3	81.5#
47	26.4	16.4	24.6#

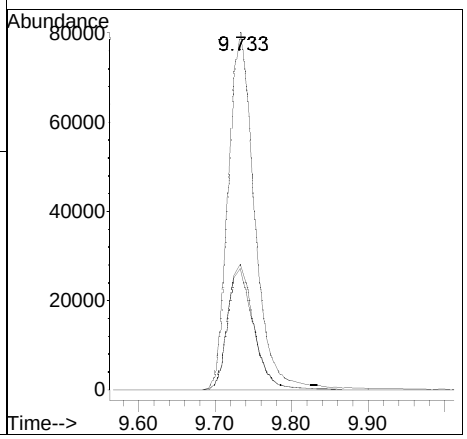


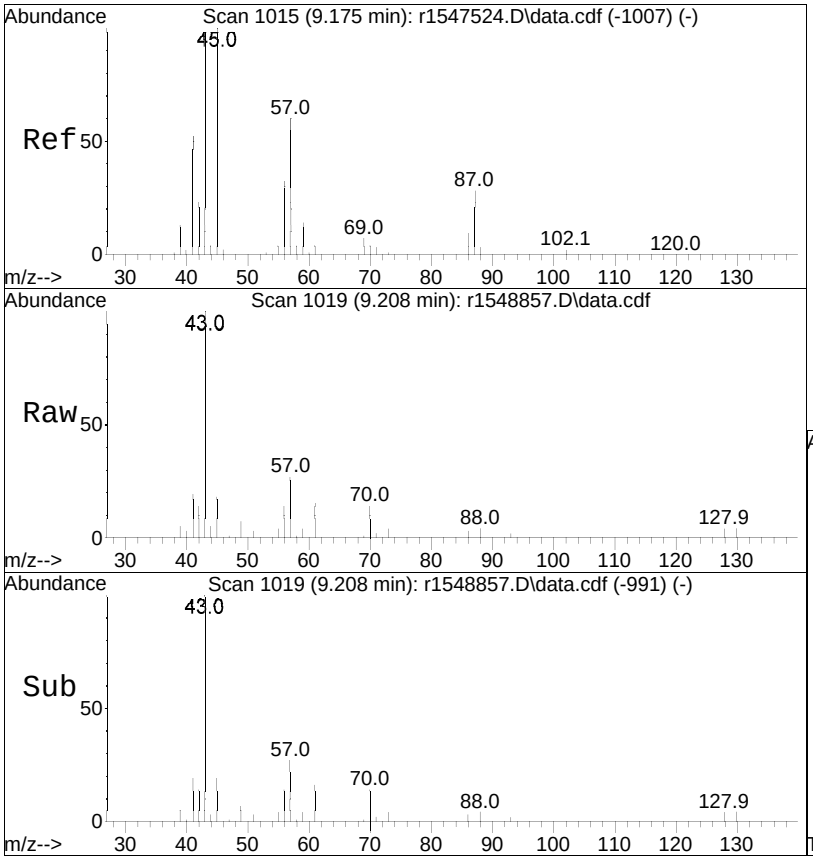


#40
Tetrahydrofuran
Concen: 7.11 ppbV
RT: 9.733 min Scan# 1082
Delta R.T. 0.025 min
Lab File: r1548857.D
Acq: 19 Jun 2024 12:21 AM

Tgt Ion: 42 Resp: 191228

Ion	Ratio	Lower	Upper
42	100		
71	34.0	30.1	45.1
72	35.2	31.4	47.2

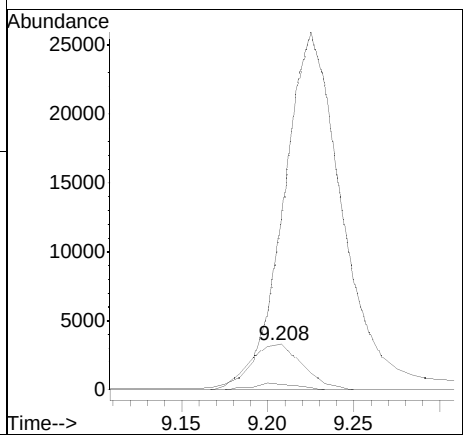


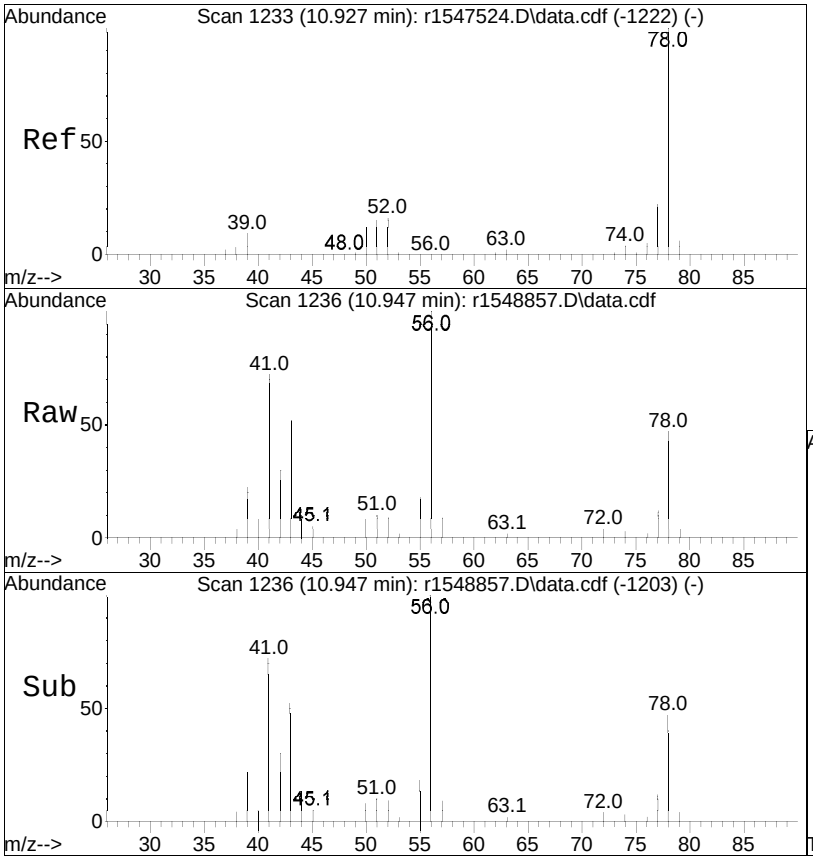


#44
hexane
Concen: 0.22 ppbV
RT: 9.208 min Scan# 1019
Delta R.T. 0.033 min
Lab File: r1548857.D
Acq: 19 Jun 2024 12:21 AM

Tgt Ion: 57 Resp: 7208

Ion	Ratio	Lower	Upper
57	100		
43	374.6	124.6	186.8#
86	12.3	11.5	17.3

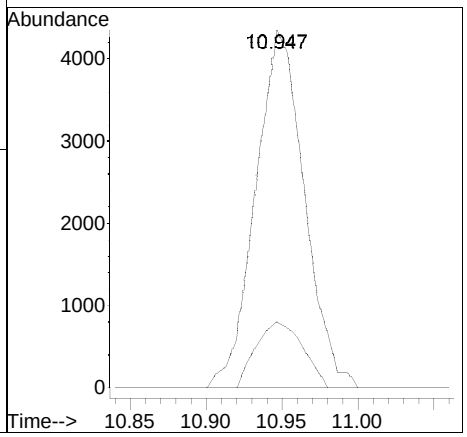


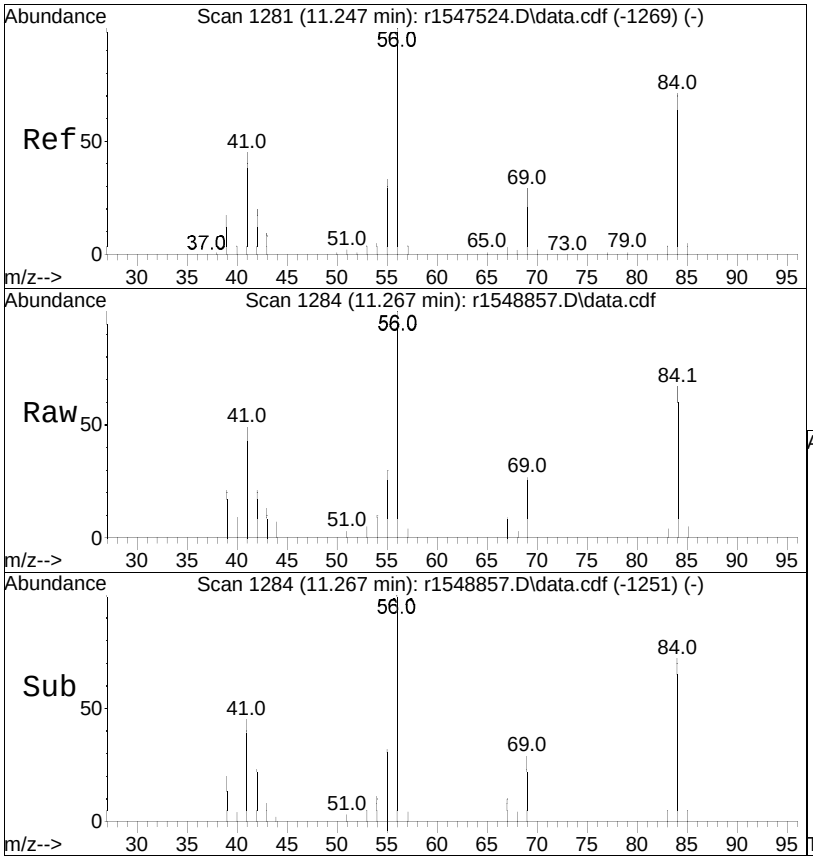


#50
benzene
Concen: 0.17 ppbV
RT: 10.947 min Scan# 1236
Delta R.T. 0.020 min
Lab File: r1548857.D
Acq: 19 Jun 2024 12:21 AM

Tgt Ion: 78 Resp: 9663

Ion	Ratio	Lower	Upper
78	100		
52	18.5	13.0	19.4

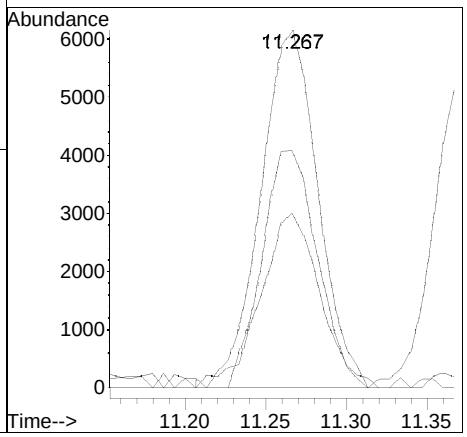


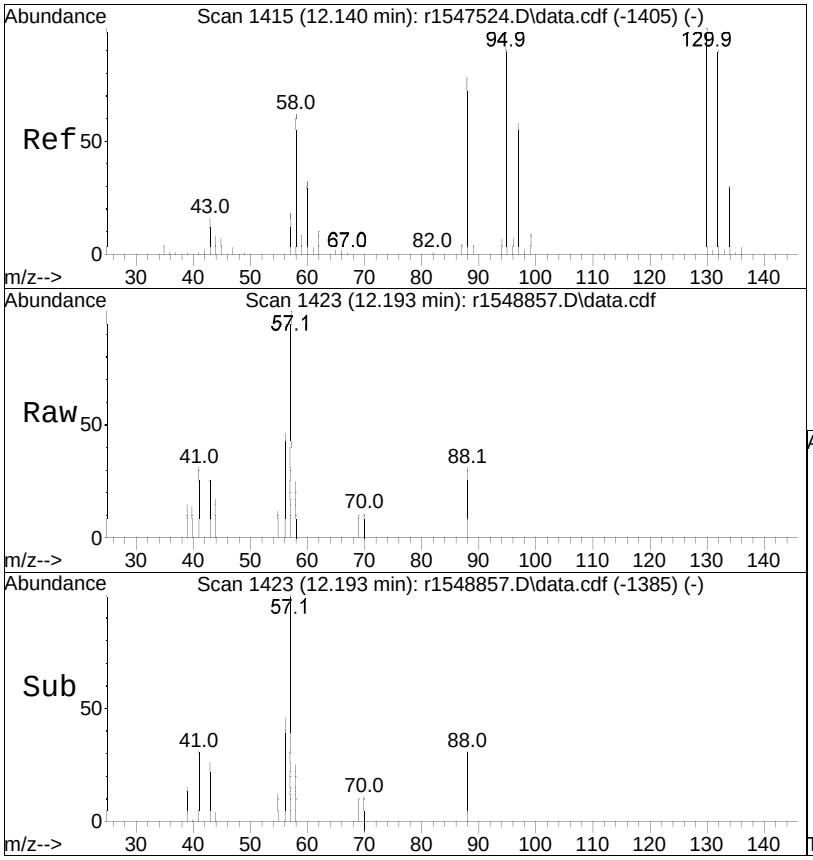


#53
cyclohexane
Concen: 0.44 ppbV
RT: 11.267 min Scan# 1284
Delta R.T. 0.020 min
Lab File: r1548857.D
Acq: 19 Jun 2024 12:21 AM

Tgt Ion: 56 Resp: 15167

Ion	Ratio	Lower	Upper
56	100		
84	66.5	57.2	85.8
41	48.8	35.9	53.9

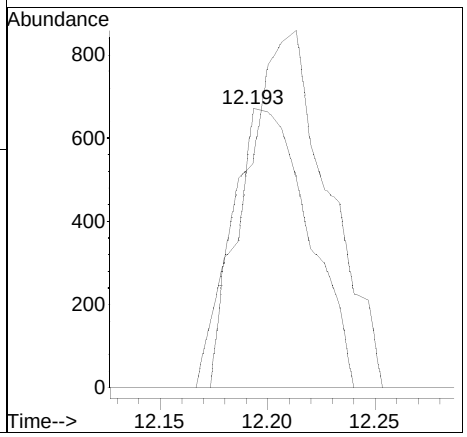


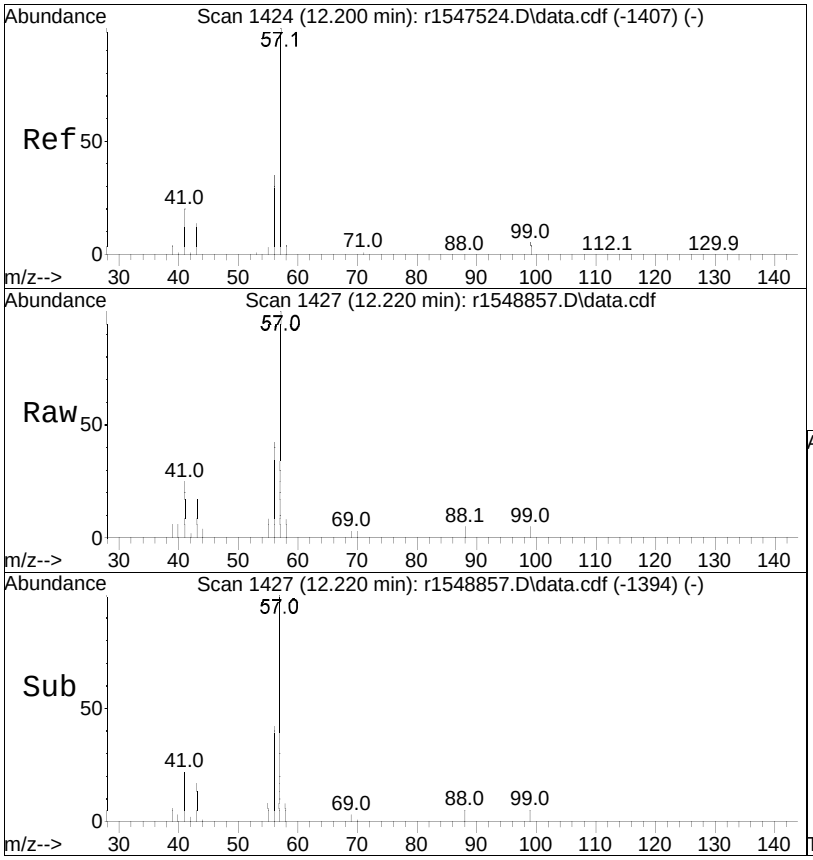


#58
1,4-dioxane
Concen: 0.12 ppbV
RT: 12.193 min Scan# 1423
Delta R.T. 0.053 min
Lab File: r1548857.D
Acq: 19 Jun 2024 12:21 AM

Tgt Ion: 88 Resp: 1582

Ion	Ratio	Lower	Upper
88	100		
58	80.2	63.4	95.0

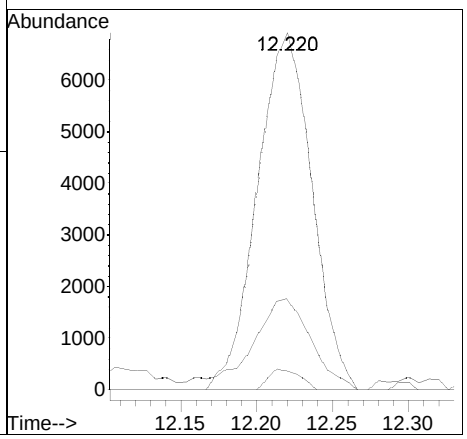


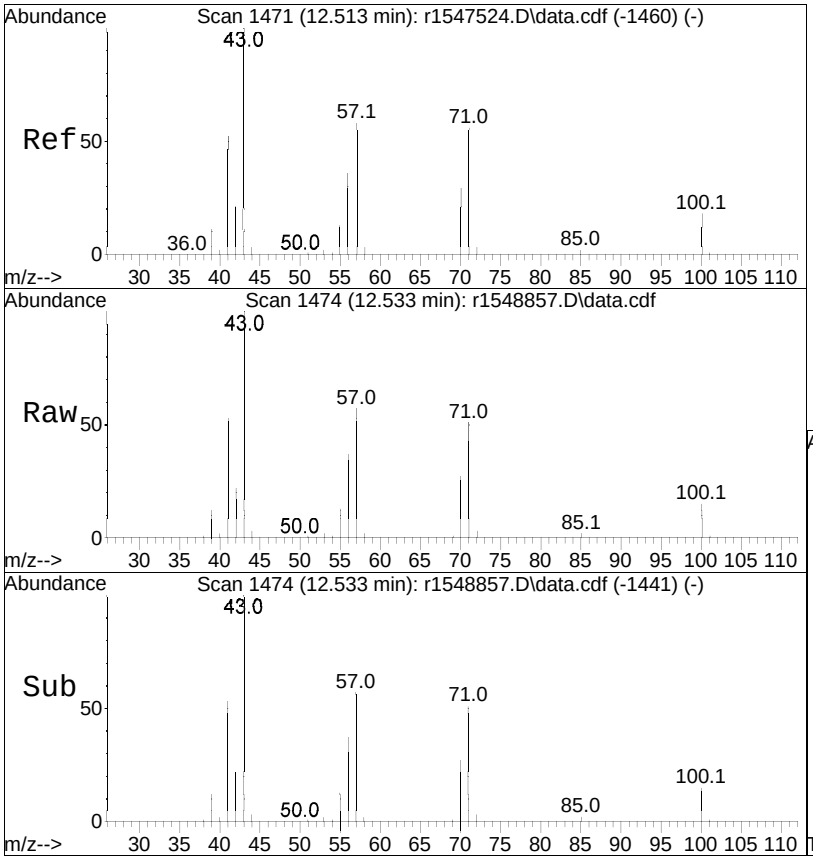


#60
2,2,4-trimethylpentane
Concen: 0.16 ppbV
RT: 12.220 min Scan# 1427
Delta R.T. 0.020 min
Lab File: r1548857.D
Acq: 19 Jun 2024 12:21 AM

Tgt Ion: 57 Resp: 17262

Ion	Ratio	Lower	Upper
57	100		
99	5.2	4.0	6.0
41	25.4	16.1	24.1#

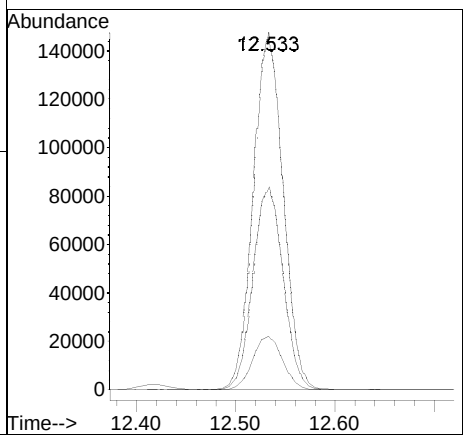


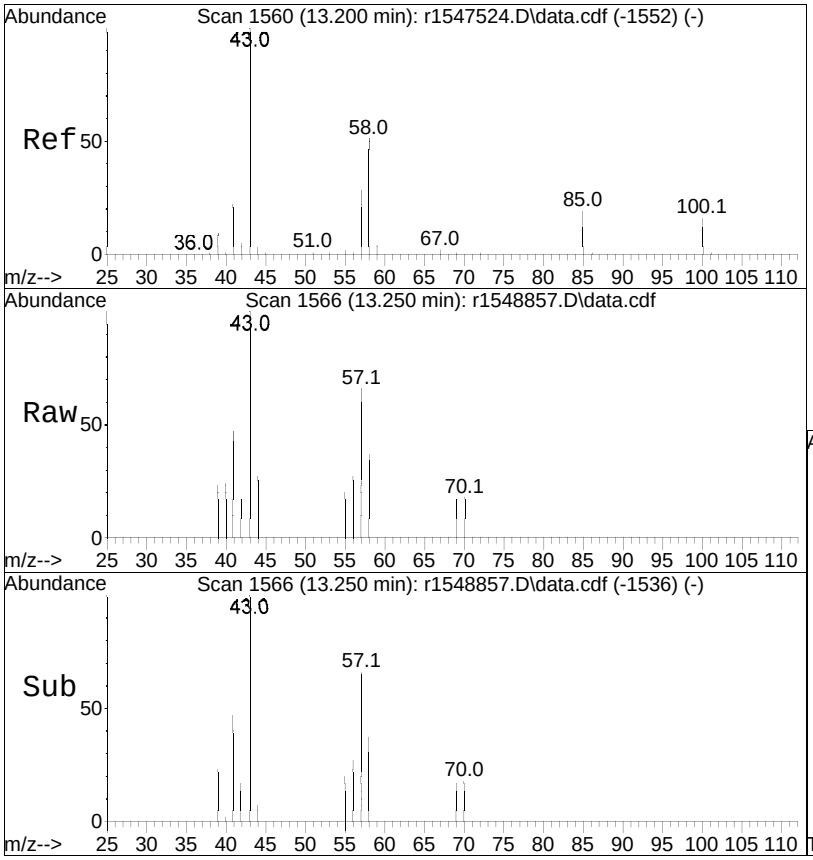


#62
heptane
Concen: 8.59 ppbV
RT: 12.533 min Scan# 1474
Delta R.T. 0.020 min
Lab File: r1548857.D
Acq: 19 Jun 2024 12:21 AM

Tgt Ion: 43 Resp: 306770

Ion	Ratio	Lower	Upper
43	100		
57	56.7	46.6	70.0
100	15.0	14.6	22.0

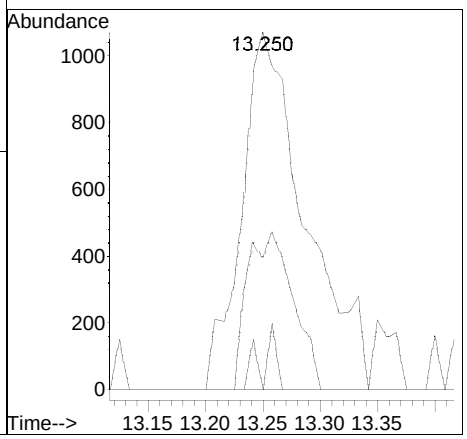


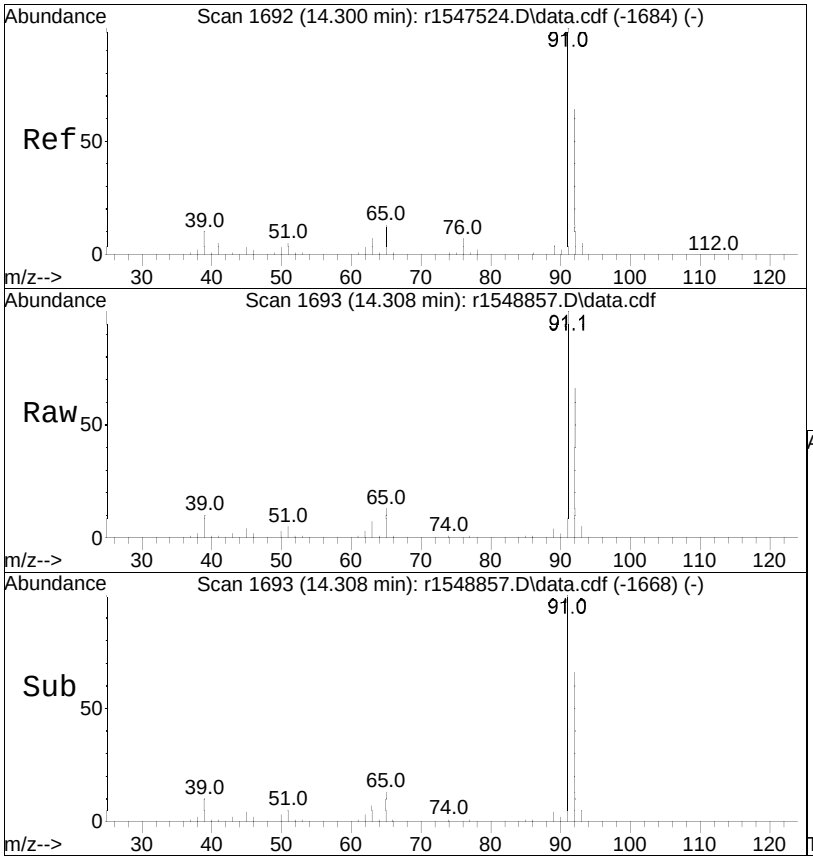


#64
4-methyl-2-pentanone
Concen: 0.10 ppbV
RT: 13.250 min Scan# 1566
Delta R.T. 0.050 min
Lab File: r1548857.D
Acq: 19 Jun 2024 12:21 AM

Tgt Ion: 43 Resp: 4144

Ion	Ratio	Lower	Upper
43	100		
58	36.8	41.0	61.4#
100	0.0	13.0	19.6#

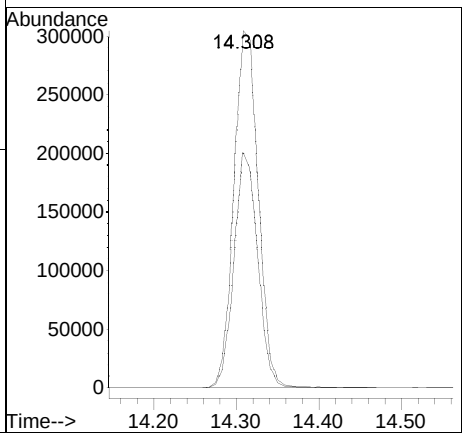


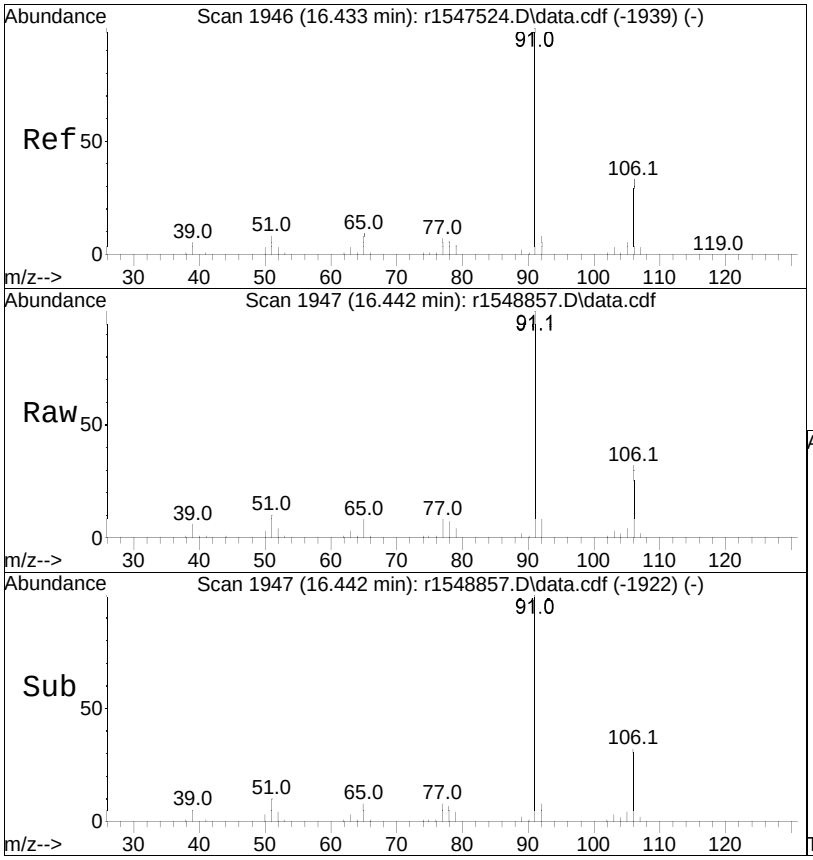


#68
toluene
Concen: 7.34 ppbV
RT: 14.308 min Scan# 1693
Delta R.T. 0.008 min
Lab File: r1548857.D
Acq: 19 Jun 2024 12:21 AM

Tgt Ion: 91 Resp: 624375

Ion	Ratio	Lower	Upper
91	100		
92	66.1	51.6	77.4

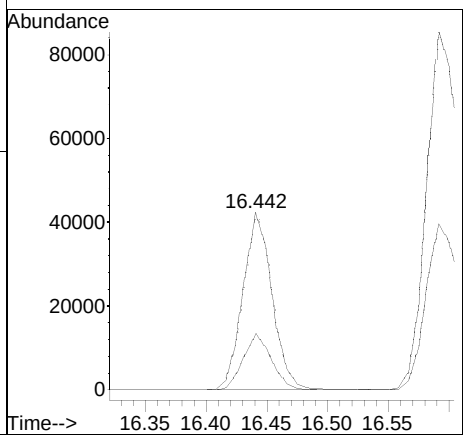


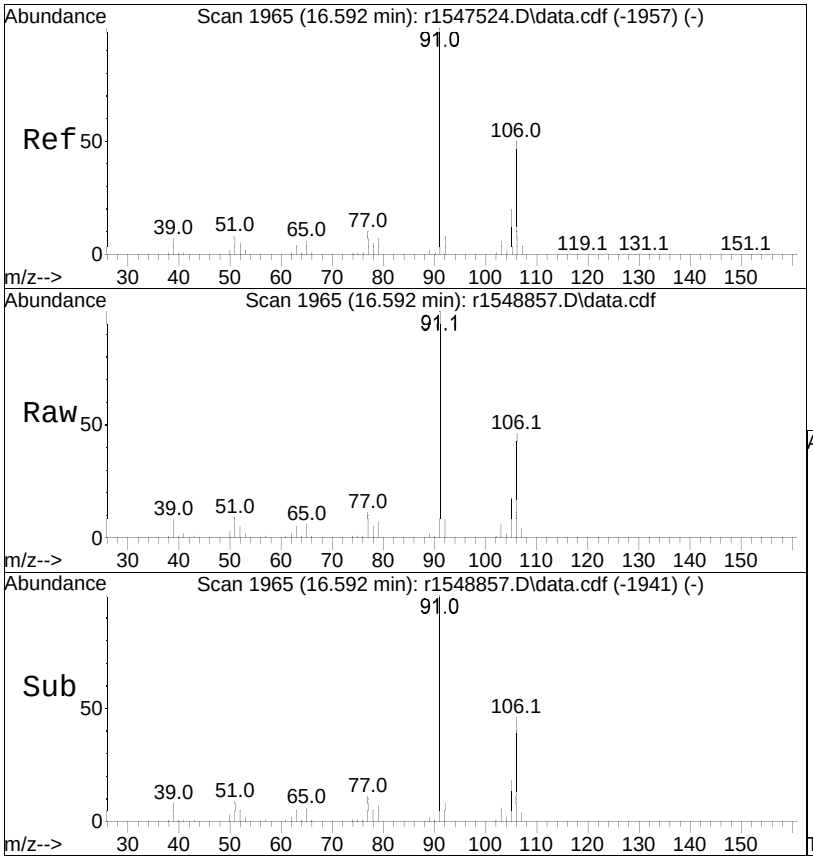


#81
ethylbenzene
Concen: 0.65 ppbV
RT: 16.442 min Scan# 1947
Delta R.T. 0.008 min
Lab File: r1548857.D
Acq: 19 Jun 2024 12:21 AM

Tgt Ion: 91 Resp: 71292

Ion	Ratio	Lower	Upper
91	100		
106	31.5	26.1	39.1

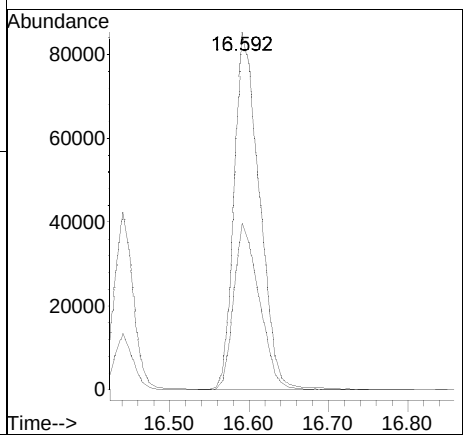


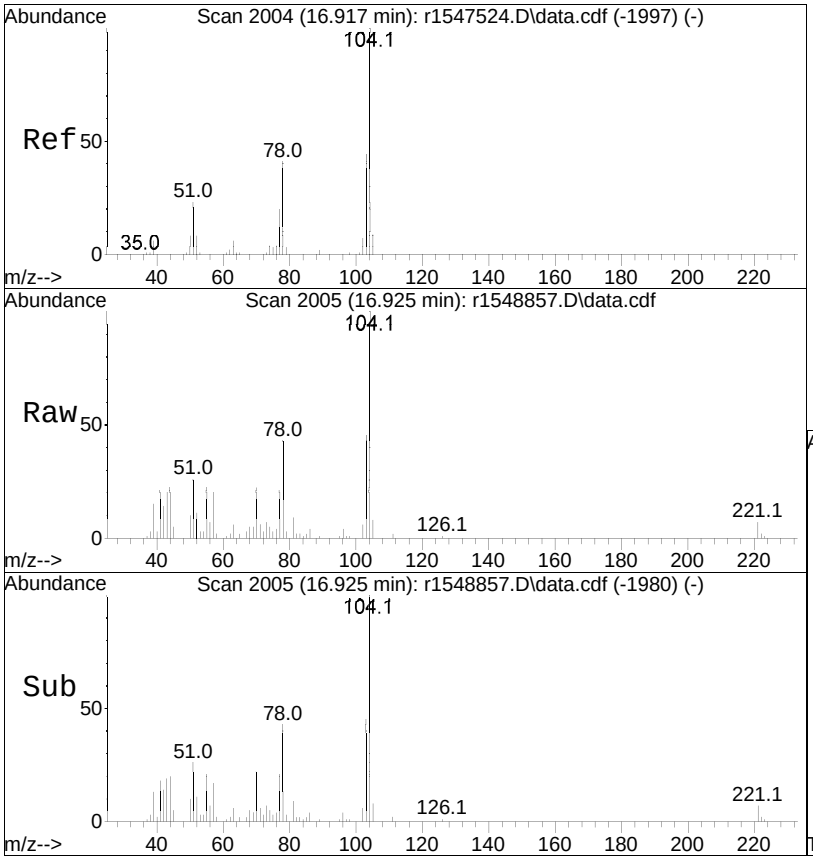


#83
m+p-xylene
Concen: 2.19 ppbV
RT: 16.592 min Scan# 1965
Delta R.T. 0.000 min
Lab File: r1548857.D
Acq: 19 Jun 2024 12:21 AM

Tgt Ion: 91 Resp: 186908

Ion	Ratio	Lower	Upper
91	100		
106	46.5	40.1	60.1

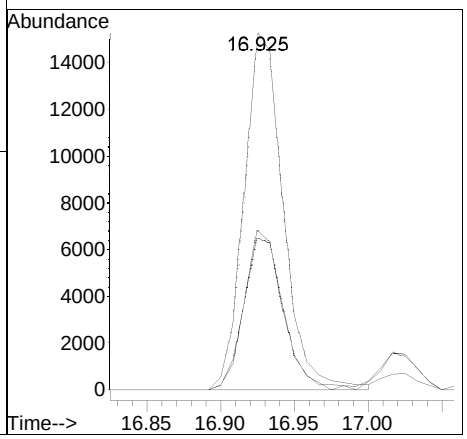


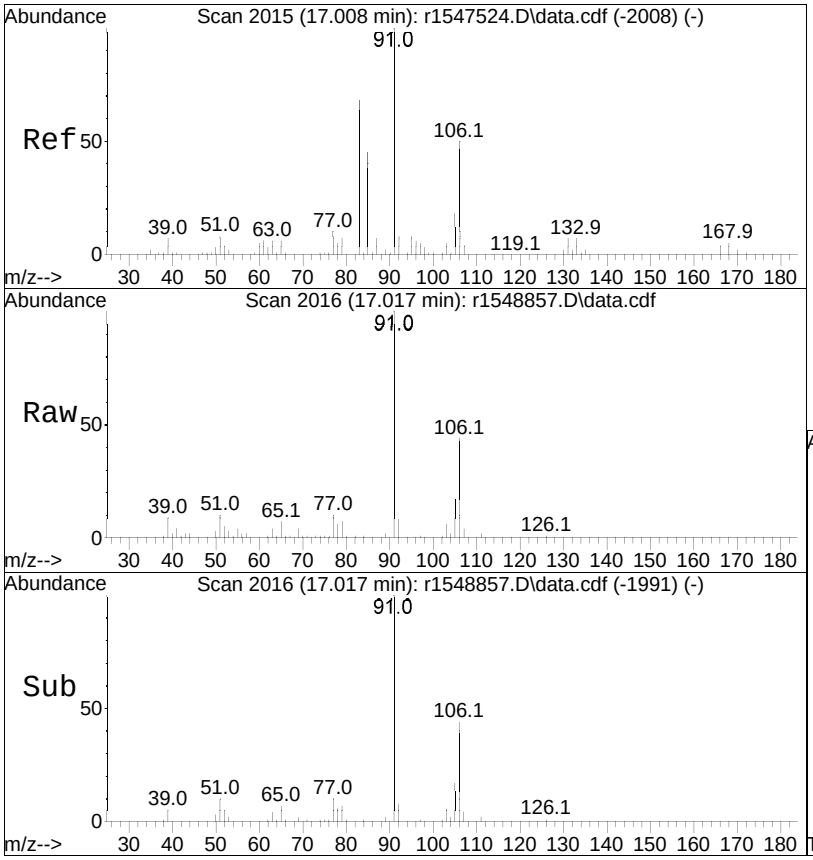


#85
styrene
Concen: 0.42 ppbV
RT: 16.925 min Scan# 2005
Delta R.T. 0.008 min
Lab File: r1548857.D
Acq: 19 Jun 2024 12:21 AM

Tgt Ion:104 Resp: 28098

Ion	Ratio	Lower	Upper
104	100		
103	44.8	35.2	52.8
78	42.6	32.6	48.8

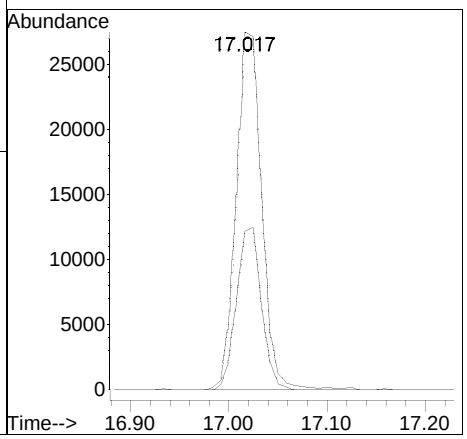


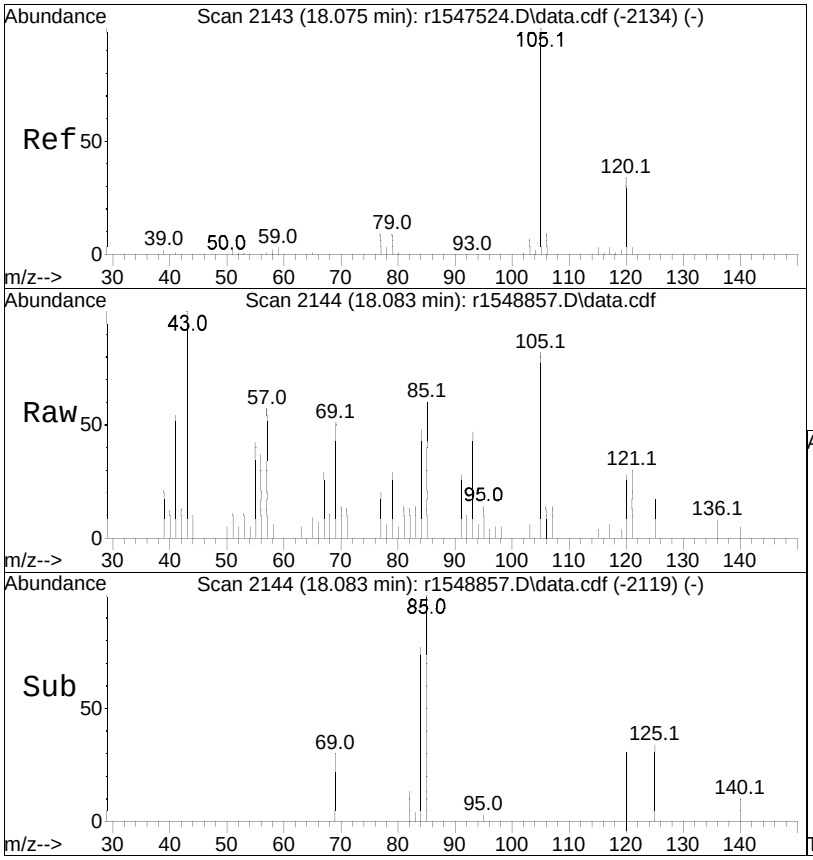


#87
o-xylene
Concen: 0.58 ppbV
RT: 17.017 min Scan# 2016
Delta R.T. 0.008 min
Lab File: r1548857.D
Acq: 19 Jun 2024 12:21 AM

Tgt Ion: 91 Resp: 49275

Ion	Ratio	Lower	Upper
91	100		
106	44.5	39.6	59.4

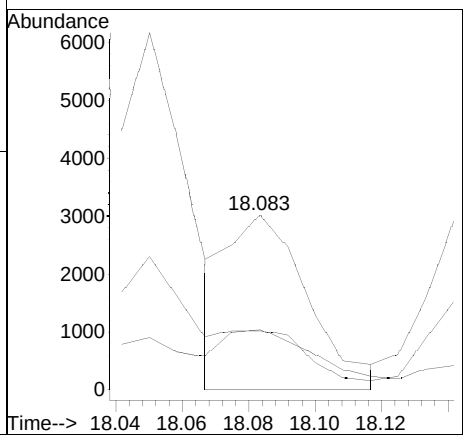


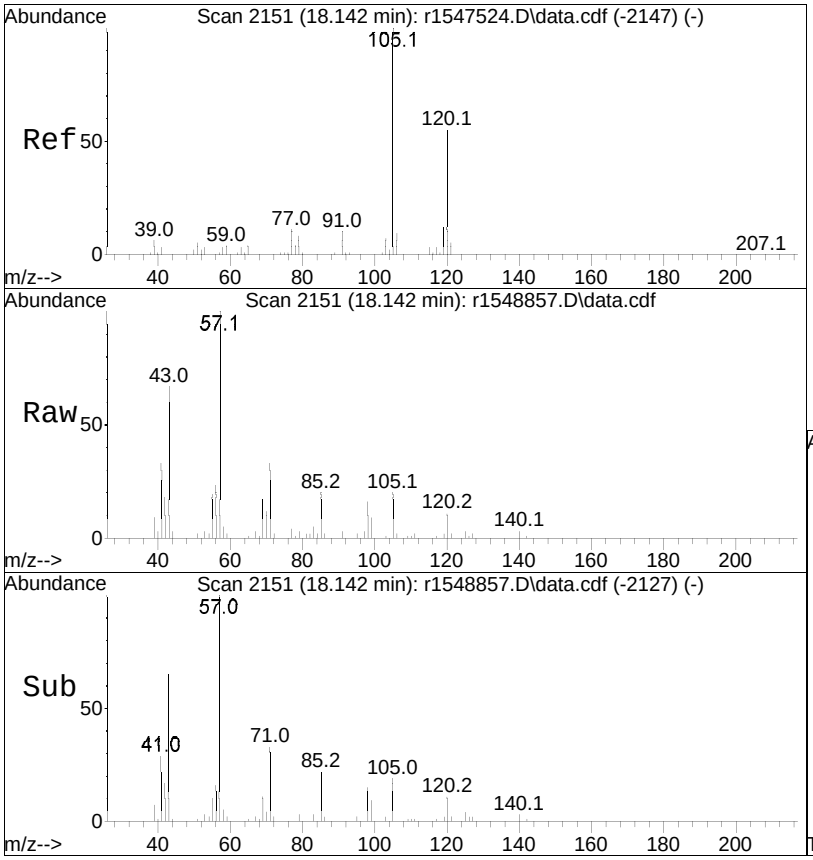


#96
4-ethyl toluene
Concen: 0.05 ppbV m
RT: 18.083 min Scan# 2144
Delta R.T. 0.008 min
Lab File: r1548857.D
Acq: 19 Jun 2024 12:21 AM

Tgt Ion:105 Resp: 5103

Ion	Ratio	Lower	Upper
105	100		
120	33.9	27.2	40.8
91	34.5	7.9	11.9#

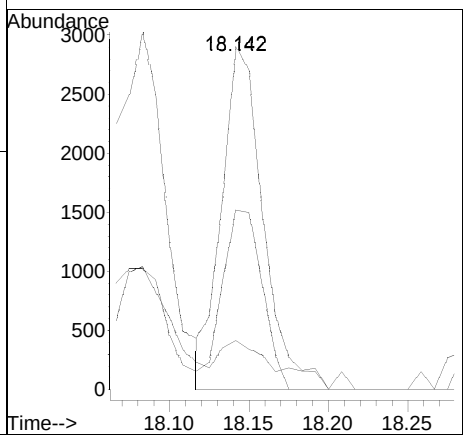


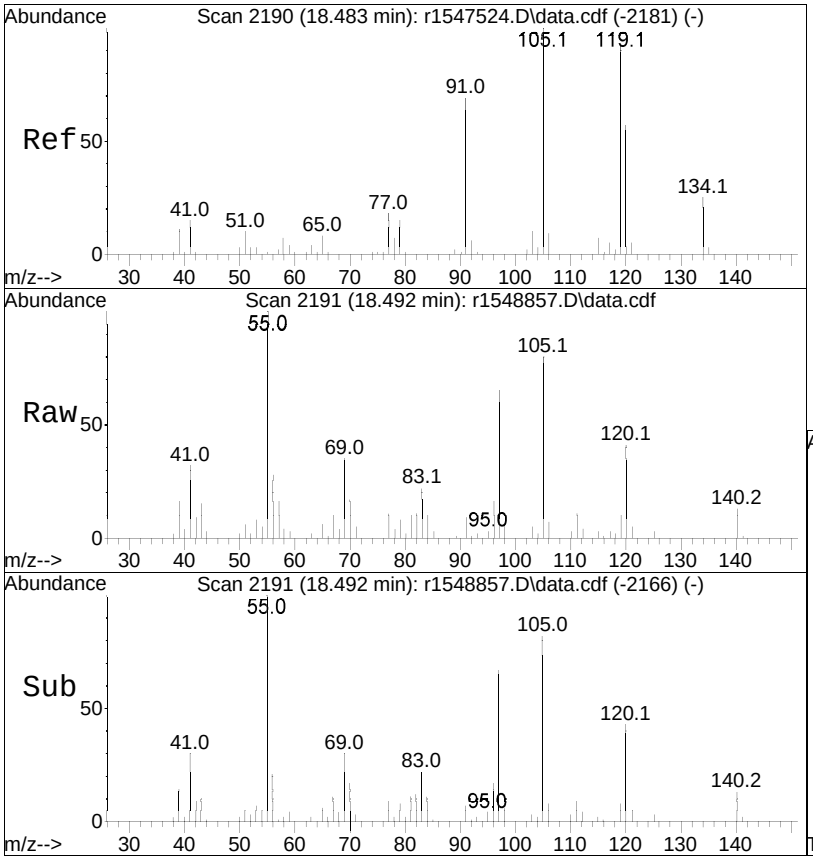


#97
1,3,5-trimethylbenzene
Concen: 0.05 ppbV
RT: 18.142 min Scan# 2151
Delta R.T. 0.000 min
Lab File: r1548857.D
Acq: 19 Jun 2024 12:21 AM

Tgt Ion:105 Resp: 5352

Ion	Ratio	Lower	Upper
105	100		
120	52.3	44.2	66.2
91	14.3	8.0	12.0#

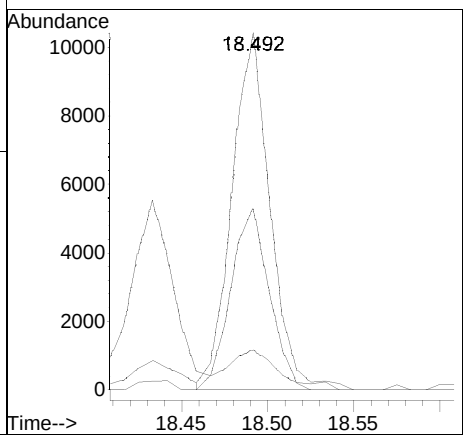


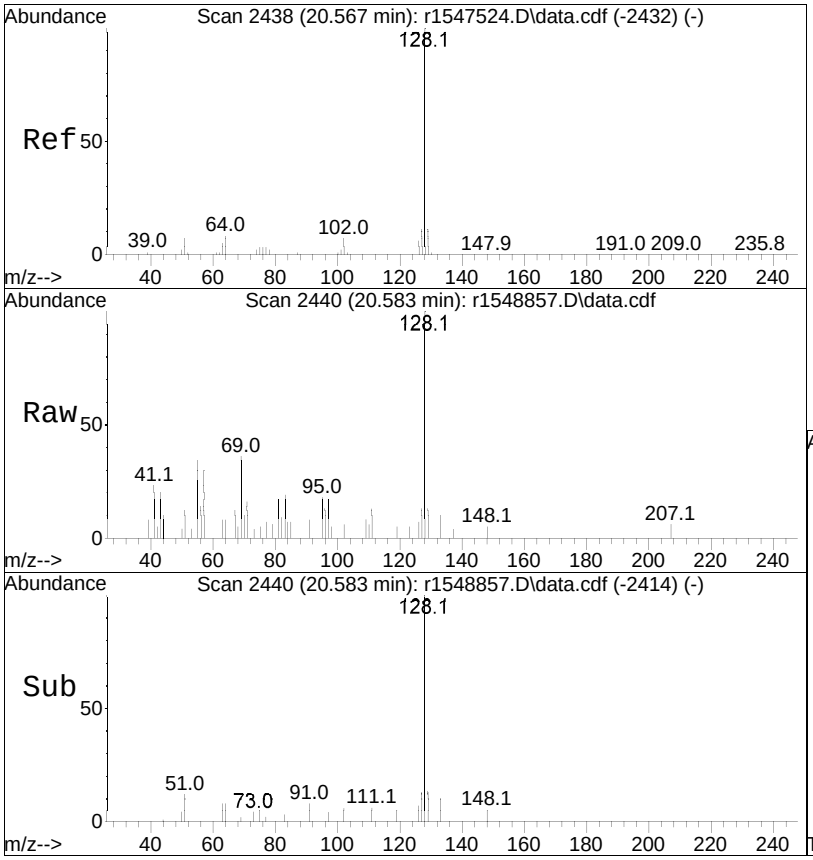


#99
1,2,4-trimethylbenzene
Concen: 0.17 ppbV
RT: 18.492 min Scan# 2191
Delta R.T. 0.008 min
Lab File: r1548857.D
Acq: 19 Jun 2024 12:21 AM

Tgt Ion:105 Resp: 16038

Ion	Ratio	Lower	Upper
105	100		
120	51.0	45.4	68.2
91	11.2	55.0	82.6#

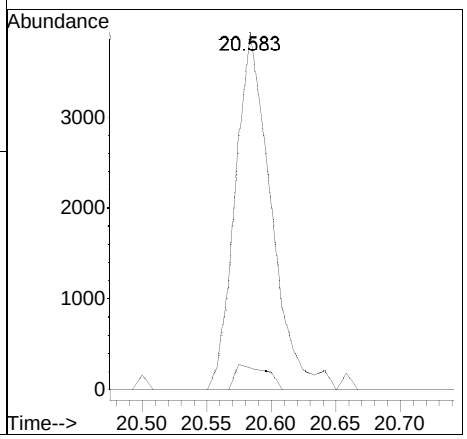




#116
naphthalene
Concen: 0.06 ppbV
RT: 20.583 min Scan# 2440
Delta R.T. 0.017 min
Lab File: r1548857.D
Acq: 19 Jun 2024 12:21 AM

Tgt Ion:128 Resp: 7618

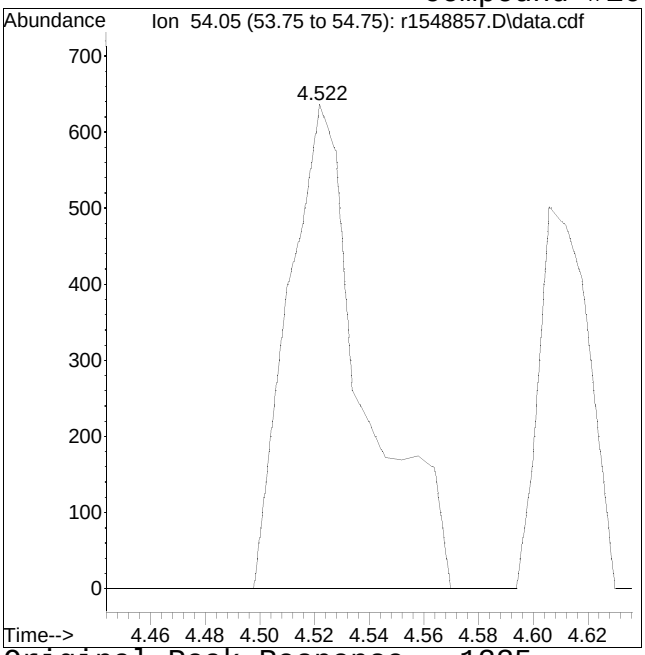
Ion	Ratio	Lower	Upper
128	100		
102	6.4	5.4	8.0



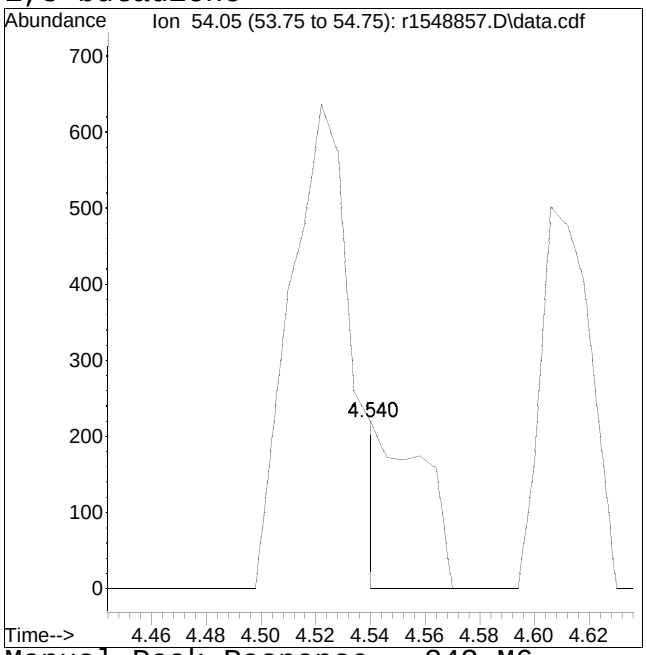
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1548857.D Operator : AIRLAB15:JMB
Date Inj'd : 6/19/2020 0:2: 1 Instrument :
Sample : L2432670-08,3,250,250 Quant Date : 6/19/2024 7:10 am

Compound #10: 1,3-butadiene



Original Peak Response = 1235



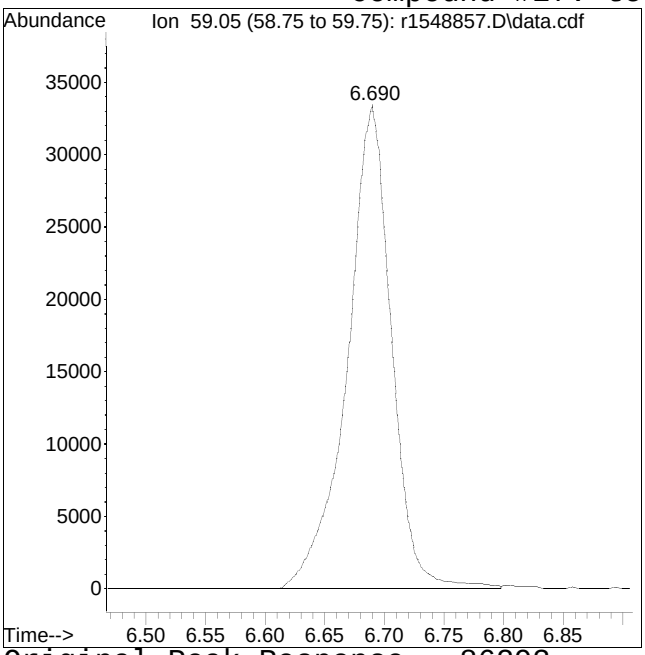
Manual Peak Response = 242 M6

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

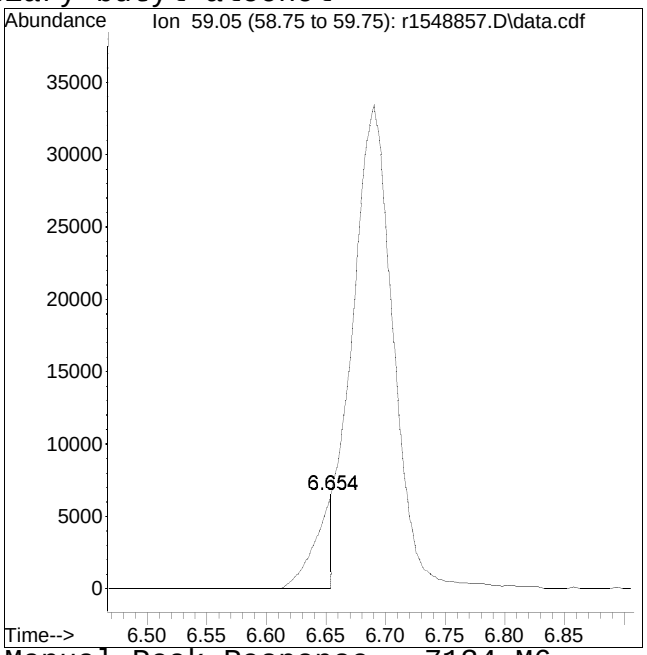
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1548857.D Operator : AIRLAB15:JMB
Date Inj'd : 6/19/2020 0:2: 1 Instrument :
Sample : L2432670-08,3,250,250 Quant Date : 6/19/2024 7:10 am

Compound #27: tertiary butyl alcohol



Original Peak Response = 86293



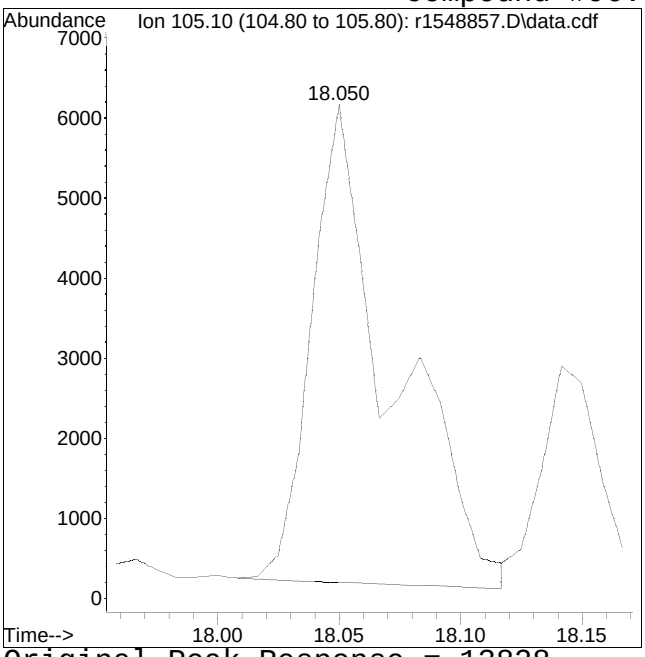
Manual Peak Response = 7134 M6

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

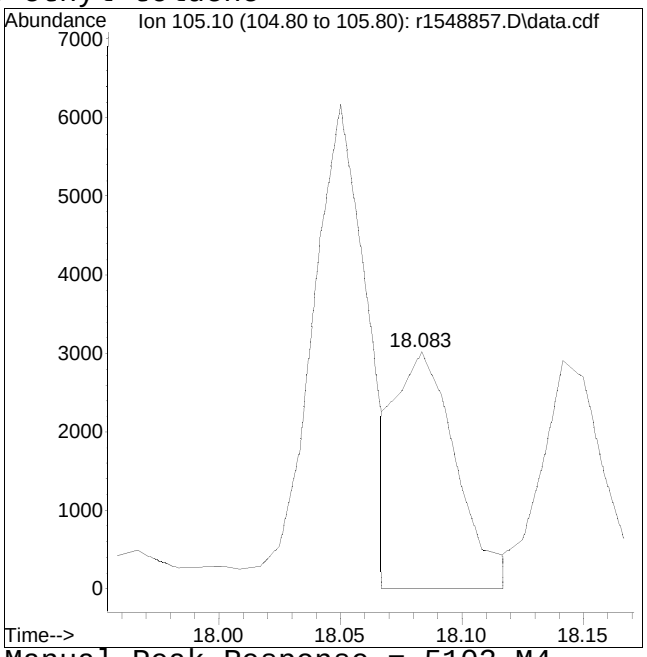
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1548857.D Operator : AIRLAB15:JMB
Date Inj'd : 6/19/2020 0:2: 1 Instrument :
Sample : L2432670-08,3,250,250 Quant Date : 6/19/2024 7:10 am

Compound #96: 4-ethyl toluene



Original Peak Response = 13828



Manual Peak Response = 5103 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548858.D
Acq On : 19 Jun 2024 12:59 AM
Operator : AIRLAB15:JMB
Sample : L2432670-09,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:11:16 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618T\r1548845.D
Sub List : TO15-NY+NAPH-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.142	49	289781	10.000	ppbV	0.02
Standard Area = 309658			Recovery =		93.58%	
43) 1,4-difluorobenzene	11.367	114	741727	10.000	ppbV	0.02
Standard Area = 833704			Recovery =		88.97%	
67) chlorobenzene-D5	16.050	54	134974	10.000	ppbV	0.00
Standard Area = 146665			Recovery =		92.03%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.012	85	14612	0.466	ppbV	96
6) chloromethane	4.180	50	7456	0.625	ppbV	94
7) Freon-114	4.294		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	5.038		0	N.D.		
15) ethanol	5.170	31	2663782	280.581	ppbV	91
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.677	43	8243384	430.505	ppbV	98
21) trichlorofluoromethane	5.870	101	5416	0.211	ppbV	98
22) isopropyl alcohol	5.993	45	127961	5.446	ppbV	98
27) tertiary butyl alcohol	6.666	59	5901M6	0.157	ppbV	
28) methylene chloride	6.720	49	8031	0.374	ppbV	100
29) 3-chloropropene	0.000		0	N.D.	d	
30) carbon disulfide	7.026	76	3492	0.064	ppbV #	17
31) Freon 113	7.026	101	2312	0.060	ppbV	91
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	8.067		0	N.D.		
36) 2-butanone	8.450	43	194106	4.526	ppbV	96
38) Ethyl Acetate	9.233	61	1646	0.200	ppbV #	33
39) chloroform	9.292	83	1236	0.037	ppbV #	92
40) Tetrahydrofuran	9.750	42	9767M6	0.360	ppbV	
42) 1,2-dichloroethane	10.133		0	N.D.		
44) hexane	9.208	57	4747	0.146	ppbV #	59
50) benzene	10.947	78	18024	0.315	ppbV	93
53) cyclohexane	11.267	56	5184	0.149	ppbV	87
56) 1,2-dichloropropane	0.000		0	N.D.		

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548858.D
Acq On : 19 Jun 2024 12:59 AM
Operator : AIRLAB15:JMB
Sample : L2432670-09,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:11:16 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618T\r1548845.D
Sub List : TO15-NY+NAPH-7-SIM - .

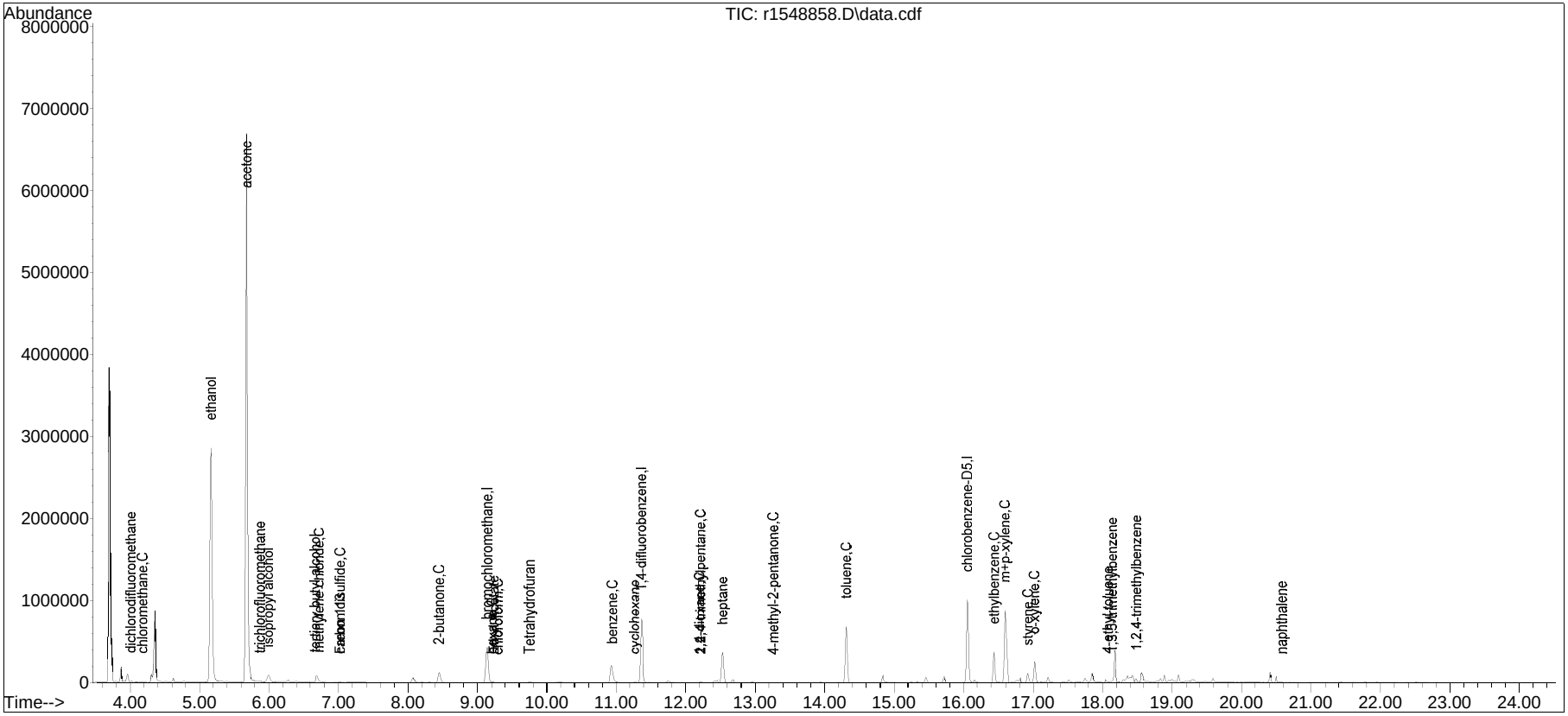
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
57)	bromodichloromethane	0.000		0	N.D.			
58)	1,4-dioxane	12.200	88	2545	0.194	ppbV		98
60)	2,2,4-trimethylpentane	12.213	57	9651	0.089	ppbV	#	83
62)	heptane	12.533	43	190855	5.285	ppbV	#	96
63)	cis-1,3-dichloropropene	0.000		0	N.D.			
64)	4-methyl-2-pentanone	13.258	43	4567	0.111	ppbV		90
65)	trans-1,3-dichloropropene	0.000		0	N.D.			
66)	1,1,2-trichloroethane	0.000		0	N.D.			
68)	toluene	14.308	91	564511	6.644	ppbV		99
72)	2-hexanone	0.000		0	N.D.	d		
74)	dibromochloromethane	0.000		0	N.D.			
75)	1,2-dibromoethane	0.000		0	N.D.			
80)	chlorobenzene	16.108		0	N.D.			
81)	ethylbenzene	16.442	91	290562	2.668	ppbV		98
83)	m+p-xylene	16.592	91	716256	8.401	ppbV		98
84)	bromoform	16.675		0	N.D.			
85)	styrene	16.925	104	50713	0.756	ppbV		98
86)	1,1,2,2-tetrachloroethane	17.058		0	N.D.			
87)	o-xylene	17.017	91	167184	1.962	ppbV		98
96)	4-ethyl toluene	18.083	105	6616M4	0.059	ppbV		
97)	1,3,5-trimethylbenzene	18.142	105	8120	0.075	ppbV		99
99)	1,2,4-trimethylbenzene	18.492	105	18172	0.196	ppbV	#	60
101)	Benzyl Chloride	18.633		0	N.D.			
102)	1,3-dichlorobenzene	18.683		0	N.D.			
103)	1,4-dichlorobenzene	18.683		0	N.D.			
107)	1,2-dichlorobenzene	0.000		0	N.D.			
115)	1,2,4-trichlorobenzene	0.000		0	N.D.			
116)	naphthalene	20.583	128	4023	0.033	ppbV	#	80
119)	hexachlorobutadiene	0.000		0	N.D.			

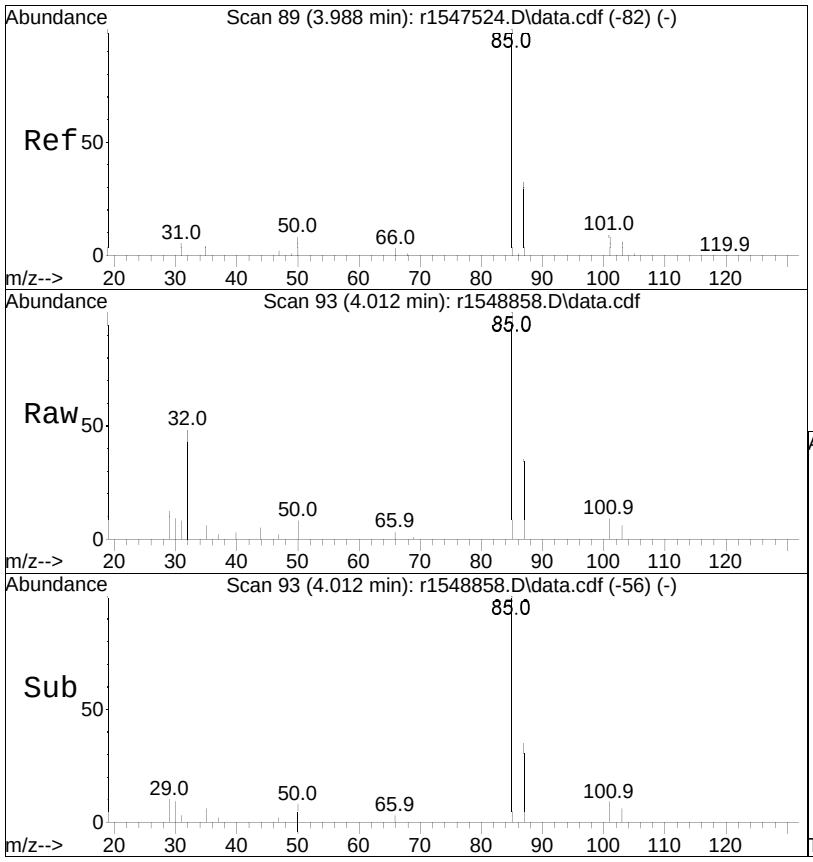
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY+NAPH-7-SIM - .ab15\2024\06\0618T\r1548845.D

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548858.D
Acq On : 19 Jun 2024 12:59 AM
Operator : AIRLAB15:JMB
Sample : L2432670-09,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:11:16 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

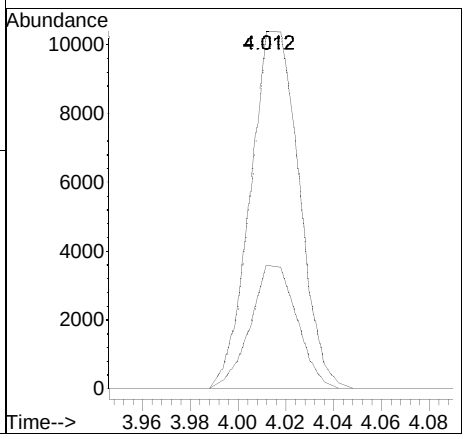


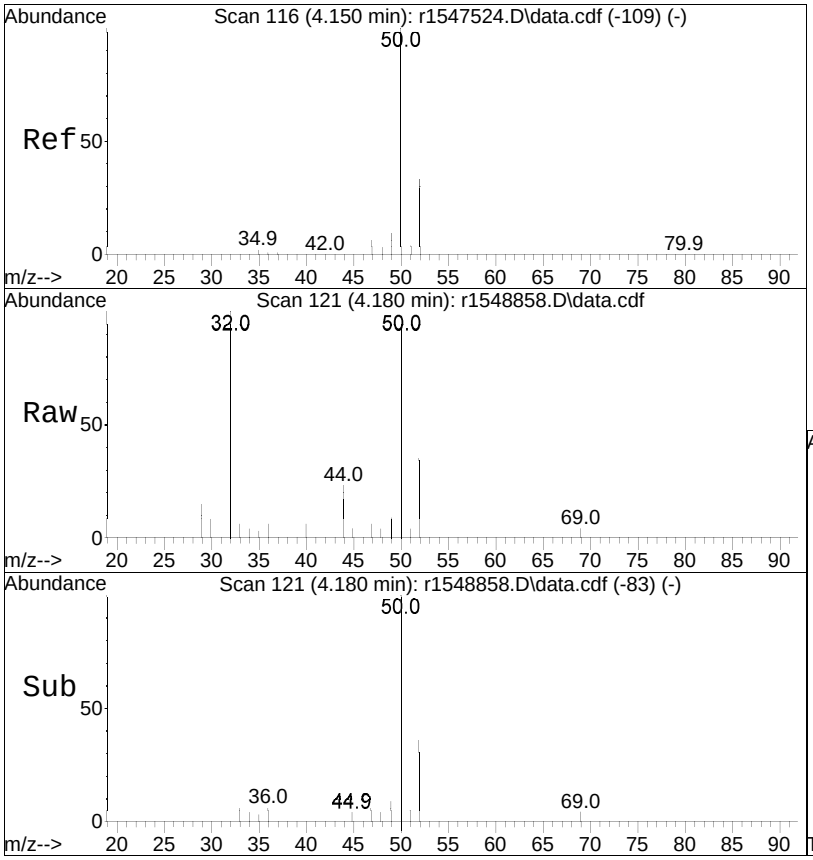


#5
dichlorodifluoromethane
Concen: 0.47 ppbV
RT: 4.012 min Scan# 93
Delta R.T. 0.024 min
Lab File: r1548858.D
Acq: 19 Jun 2024 12:59 AM

Tgt Ion: 85 Resp: 14612

Ion	Ratio	Lower	Upper
85	100		
87	34.6	25.8	38.8

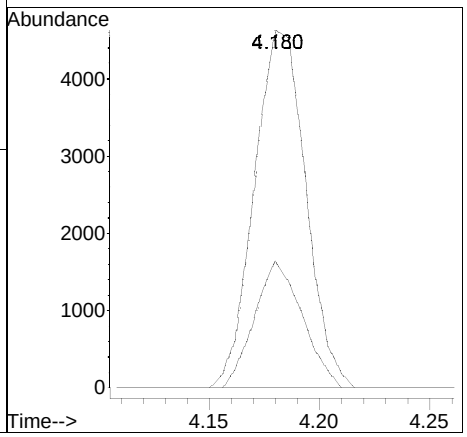


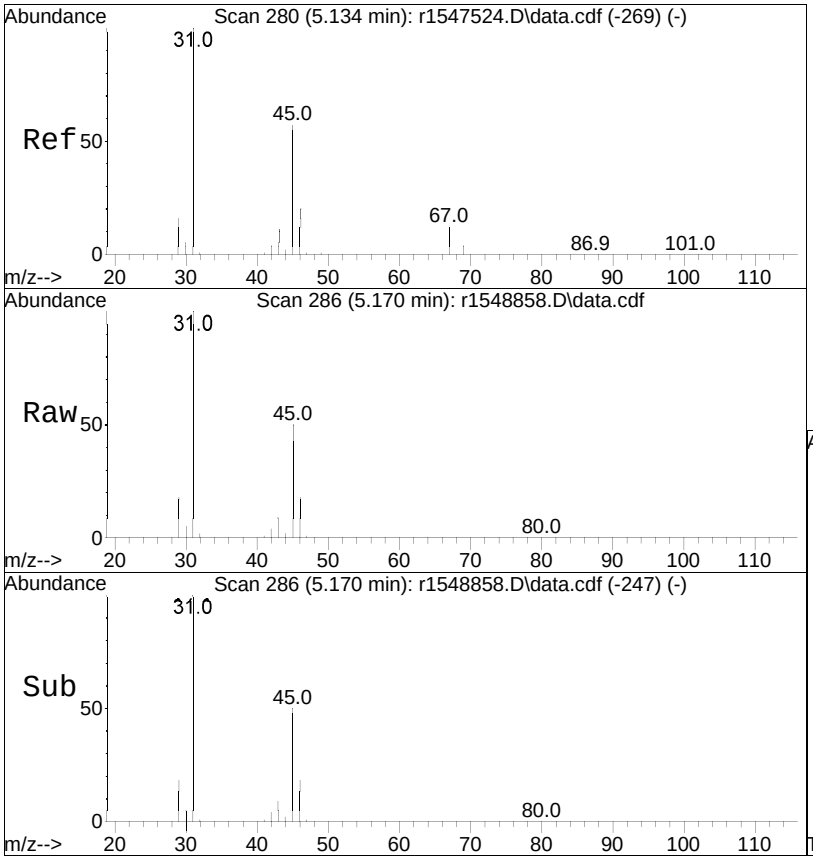


#6
chloromethane
Concen: 0.63 ppbV
RT: 4.180 min Scan# 121
Delta R.T. 0.030 min
Lab File: r1548858.D
Acq: 19 Jun 2024 12:59 AM

Tgt Ion: 50 Resp: 7456

Ion	Ratio	Lower	Upper
50	100		
52	35.6	26.0	39.0

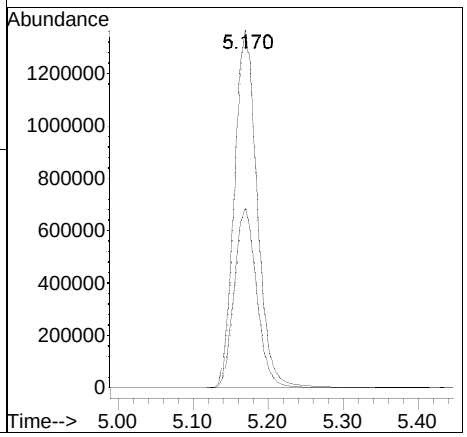


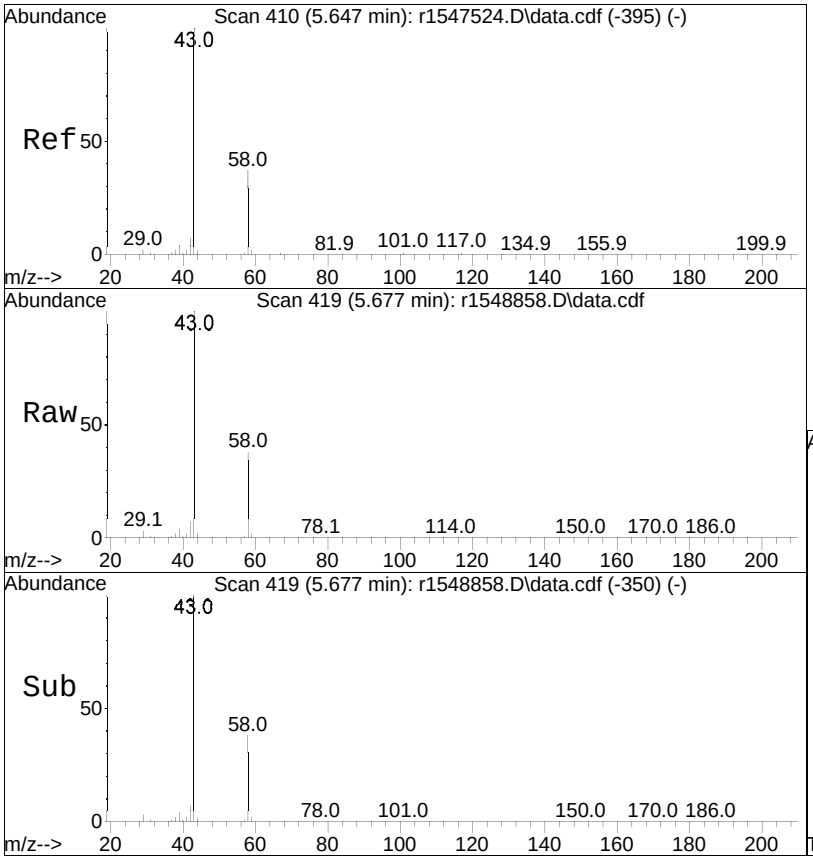


#15
ethanol
Concen: 280.58 ppbV
RT: 5.170 min Scan# 286
Delta R.T. 0.036 min
Lab File: r1548858.D
Acq: 19 Jun 2024 12:59 AM

Tgt Ion: 31 Resp: 2663782

Ion	Ratio	Lower	Upper
31	100		
45	50.3	45.7	68.5

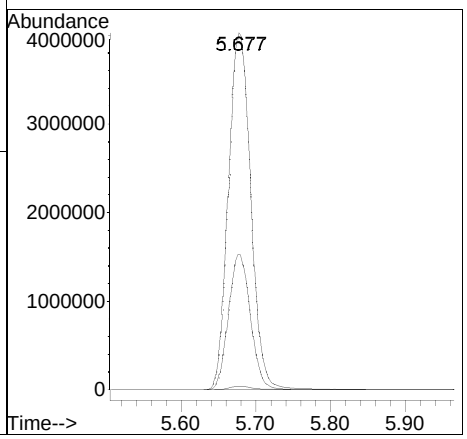


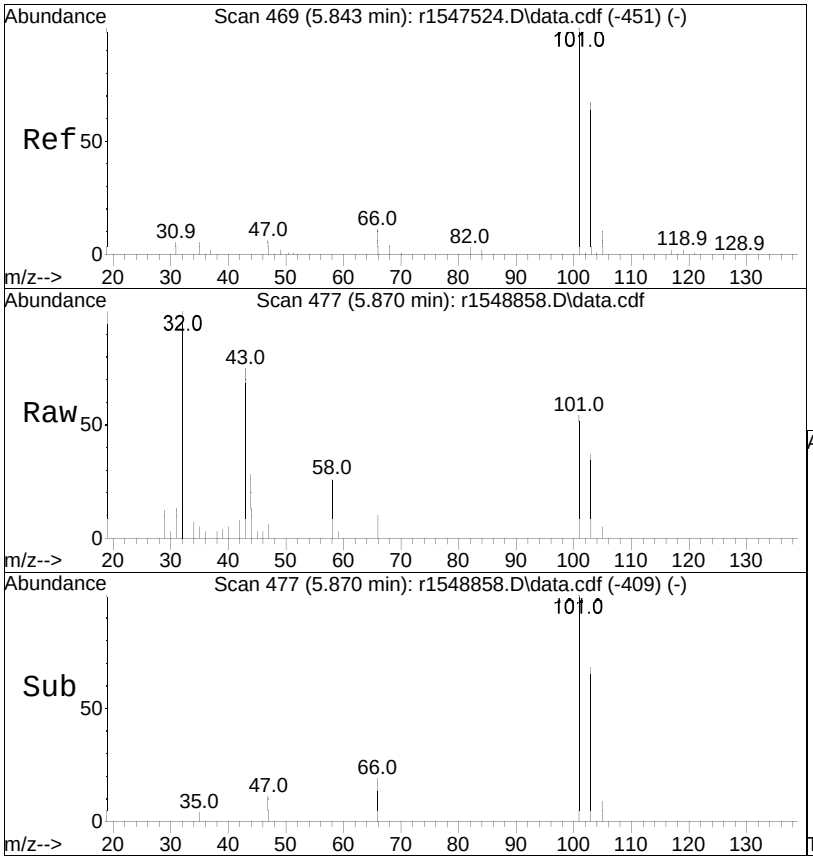


#19
acetone
Concen: 430.51 ppbV
RT: 5.677 min Scan# 419
Delta R.T. 0.030 min
Lab File: r1548858.D
Acq: 19 Jun 2024 12:59 AM

Tgt Ion: 43 Resp: 8243384

Ion	Ratio	Lower	Upper
43	100		
58	37.9	29.4	44.0
57	0.9	0.7	1.1

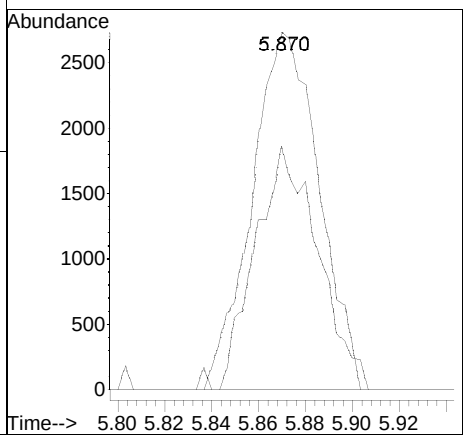


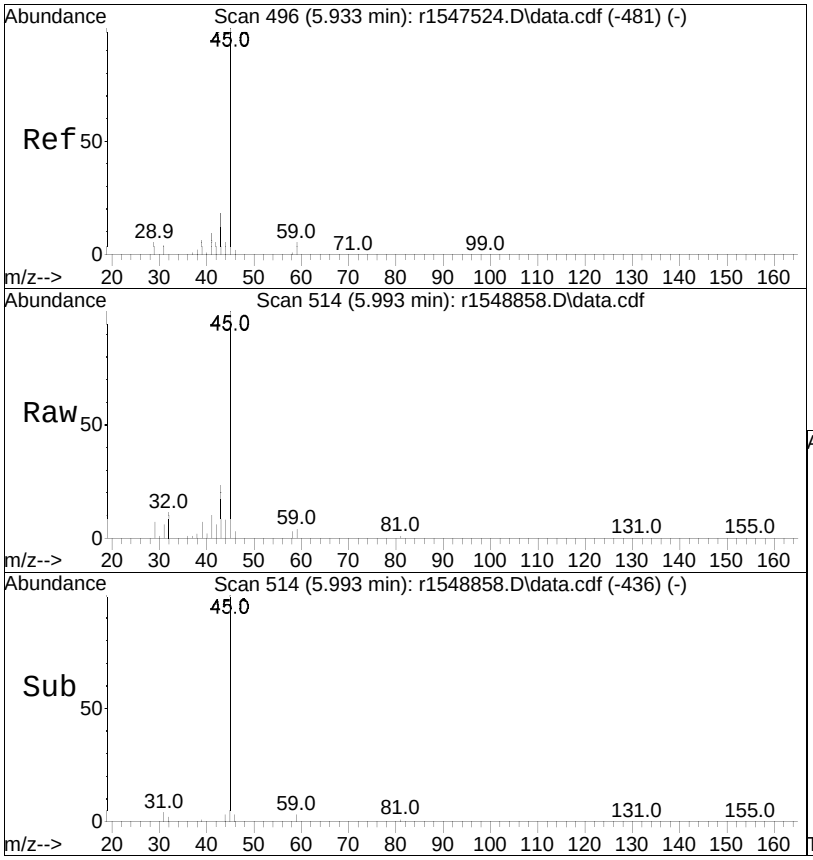


#21
trichlorofluoromethane
Concen: 0.21 ppbV
RT: 5.870 min Scan# 477
Delta R.T. 0.027 min
Lab File: r1548858.D
Acq: 19 Jun 2024 12:59 AM

Tgt Ion:101 Resp: 5416

Ion	Ratio	Lower	Upper
101	100		
103	68.4	53.4	80.0

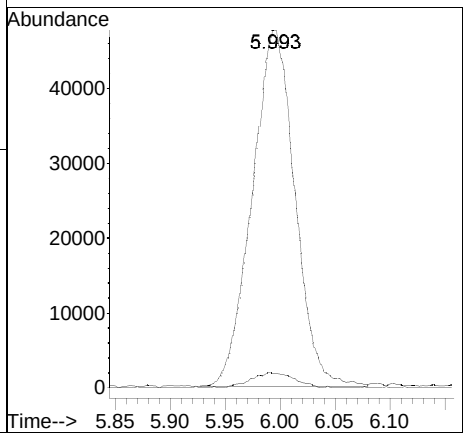


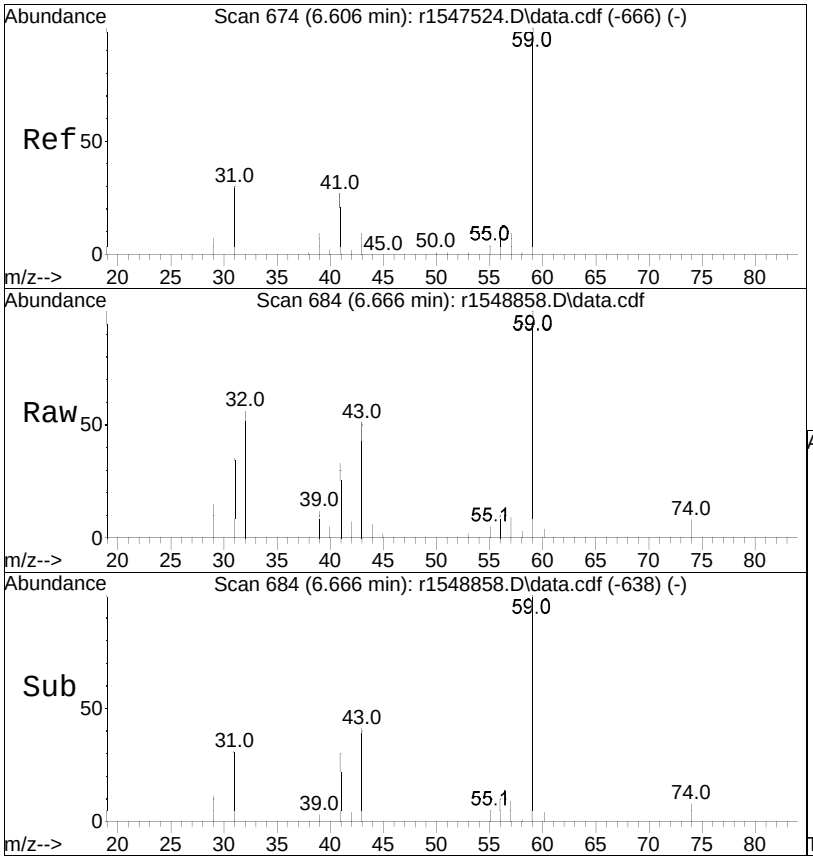


#22
isopropyl alcohol
Concen: 5.45 ppbV
RT: 5.993 min Scan# 514
Delta R.T. 0.060 min
Lab File: r1548858.D
Acq: 19 Jun 2024 12:59 AM

Tgt Ion: 45 Resp: 127961

Ion	Ratio	Lower	Upper
45	100		
59	4.0	3.8	5.6

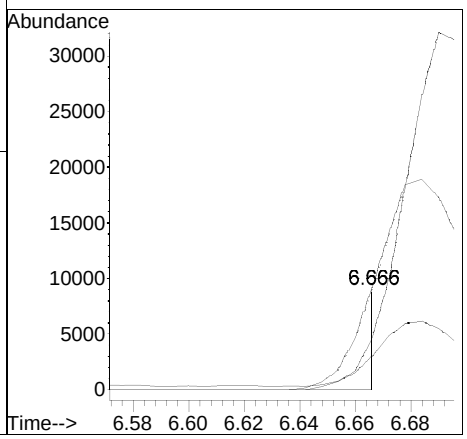


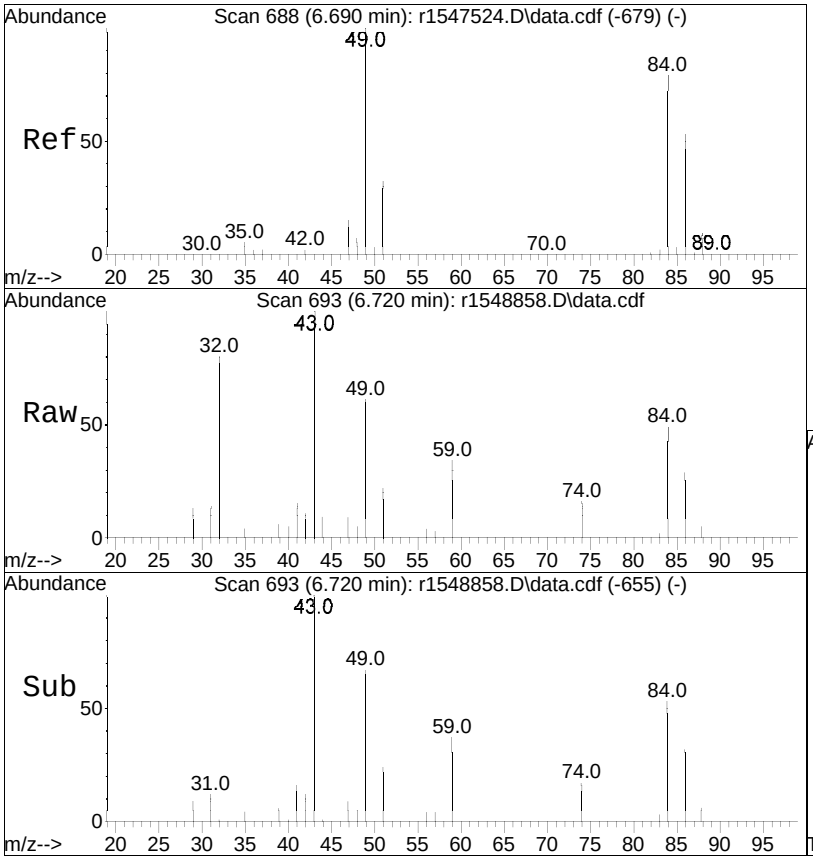


#27
tertiary butyl alcohol
Concen: 0.16 ppbV m
RT: 6.666 min Scan# 684
Delta R.T. 0.060 min
Lab File: r1548858.D
Acq: 19 Jun 2024 12:59 AM

Tgt Ion: 59 Resp: 5901

Ion	Ratio	Lower	Upper
59	100		
41	33.4	21.3	31.9#
43	50.8	7.4	11.0#

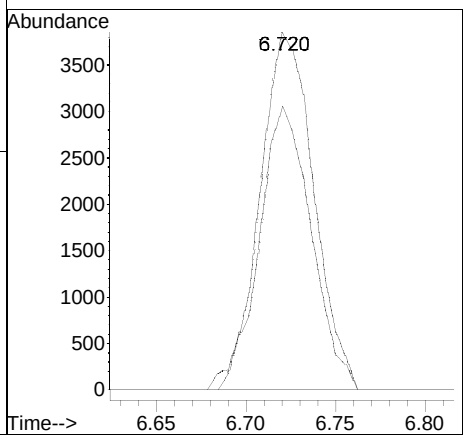


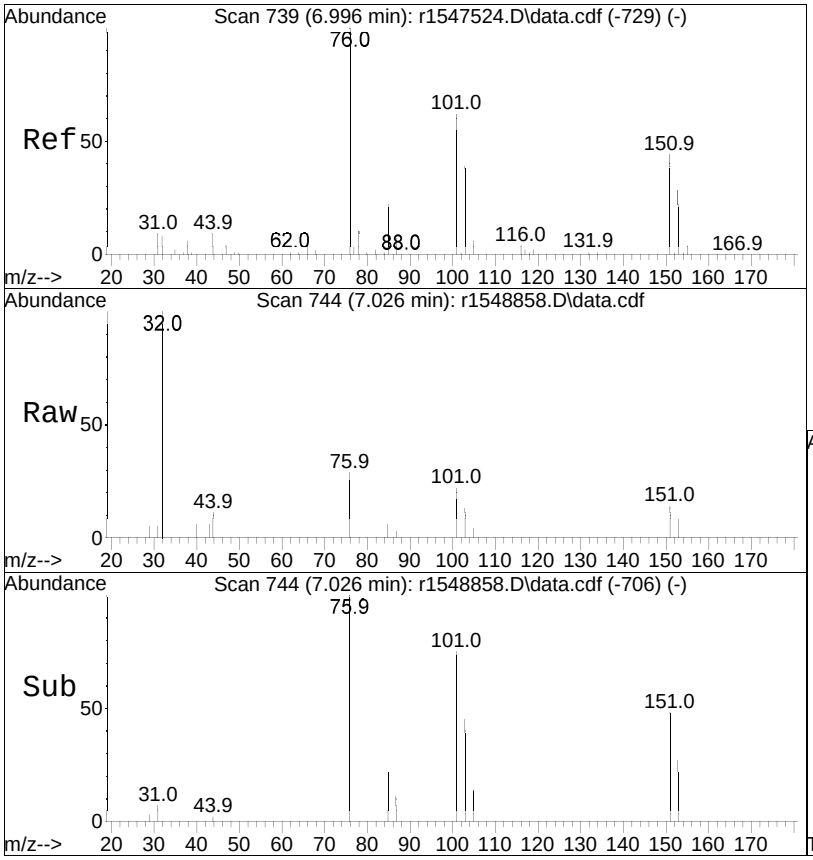


#28
methylene chloride
Concen: 0.37 ppbV
RT: 6.720 min Scan# 693
Delta R.T. 0.030 min
Lab File: r1548858.D
Acq: 19 Jun 2024 12:59 AM

Tgt Ion: 49 Resp: 8031

Ion	Ratio	Lower	Upper
49	100		
84	79.4	63.4	95.2

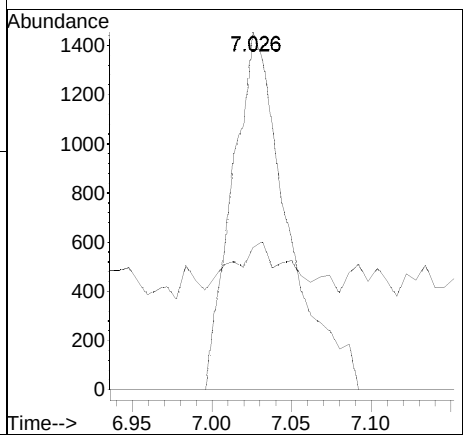


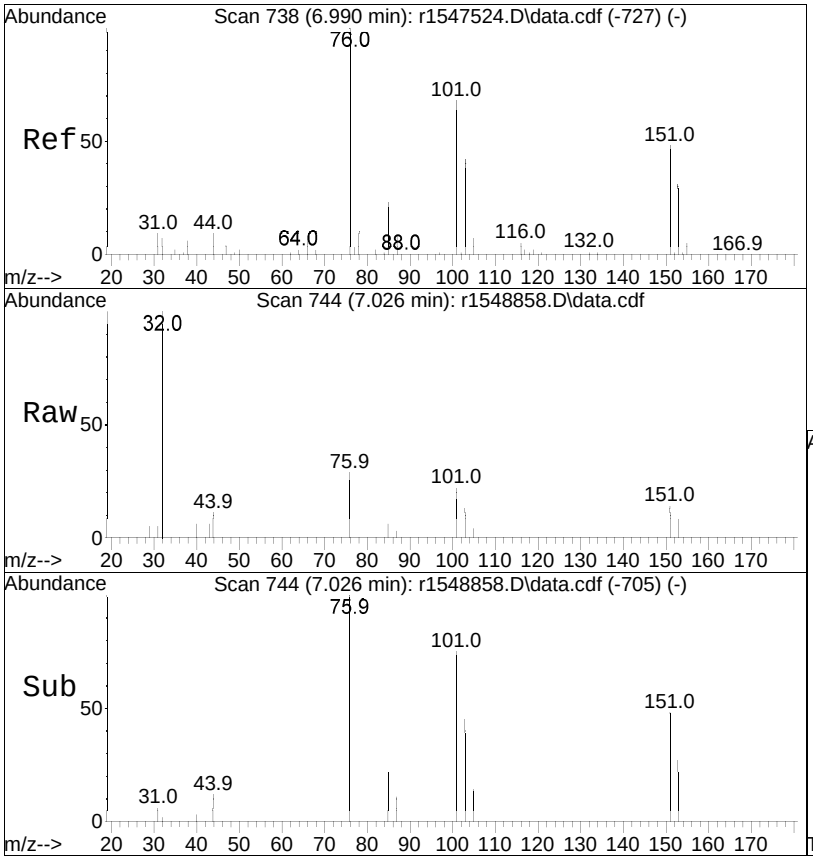


#30
carbon disulfide
Concen: 0.06 ppbV
RT: 7.026 min Scan# 744
Delta R.T. 0.030 min
Lab File: r1548858.D
Acq: 19 Jun 2024 12:59 AM

Tgt Ion: 76 Resp: 3492

Ion	Ratio	Lower	Upper
76	100		
44	39.8	7.5	11.3#

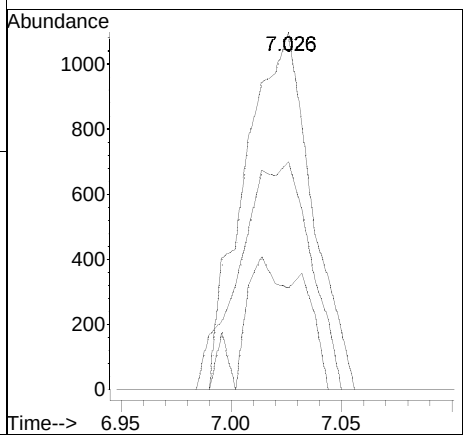


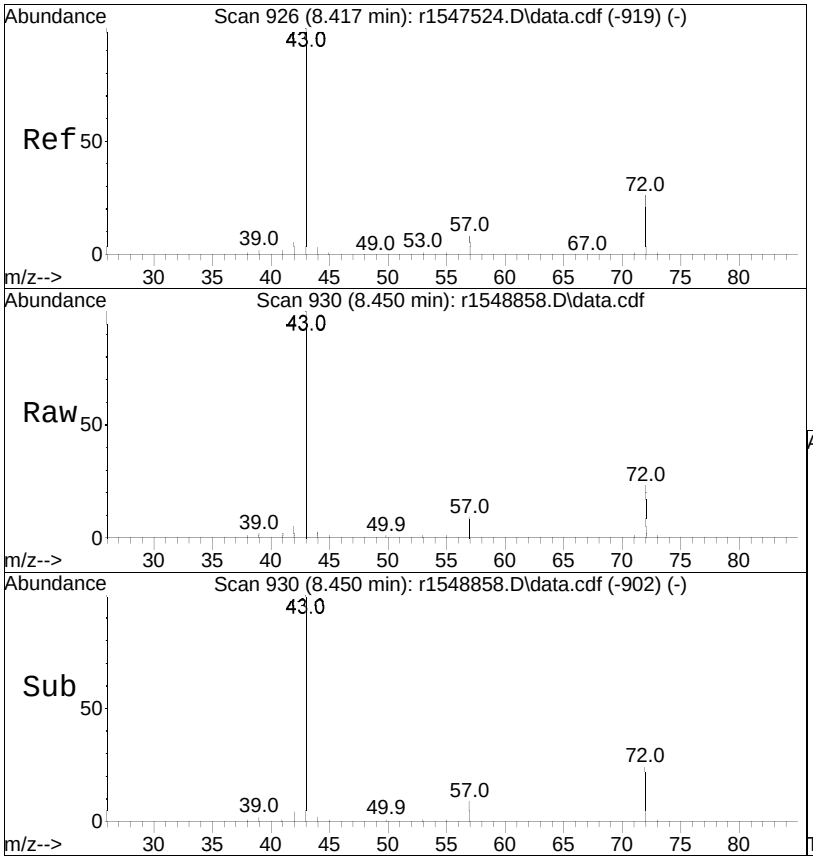


#31
Freon 113
Concen: 0.06 ppbV
RT: 7.026 min Scan# 744
Delta R.T. 0.036 min
Lab File: r1548858.D
Acq: 19 Jun 2024 12:59 AM

Tgt Ion:101 Resp: 2312

Ion	Ratio	Lower	Upper
101	100		
85	28.6	27.6	41.4
151	63.9	56.9	85.3

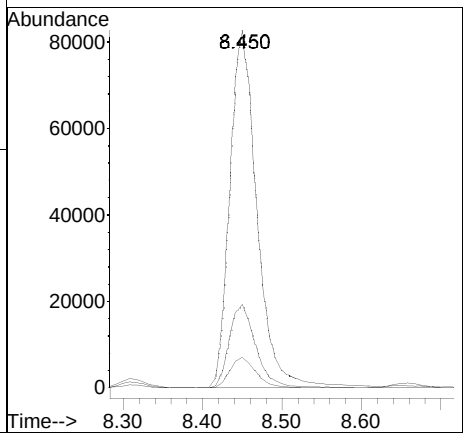


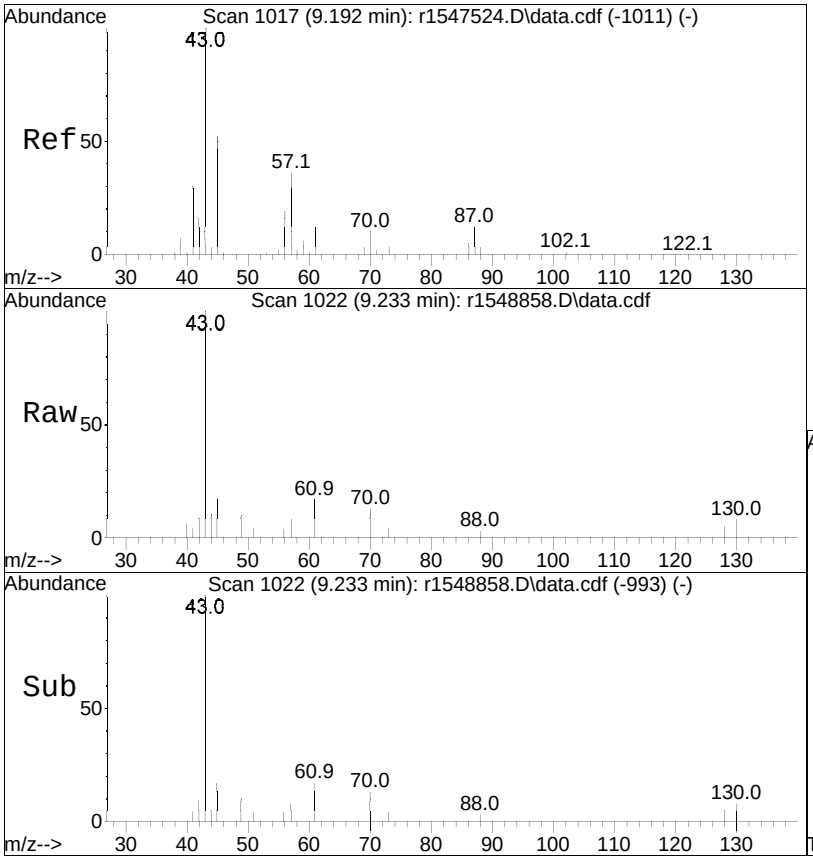


#36
2-butanone
Concen: 4.53 ppbV
RT: 8.450 min Scan# 930
Delta R.T. 0.033 min
Lab File: r1548858.D
Acq: 19 Jun 2024 12:59 AM

Tgt Ion: 43 Resp: 194106

Ion	Ratio	Lower	Upper
43	100		
72	23.4	20.9	31.3
57	8.5	6.6	10.0

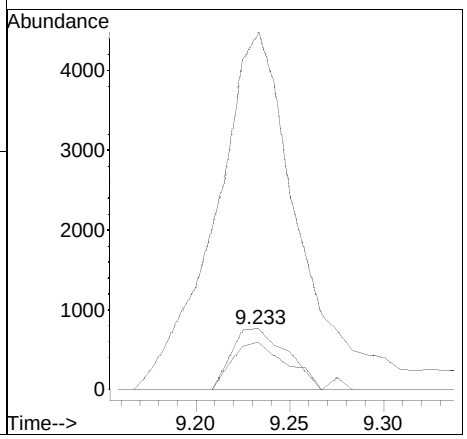


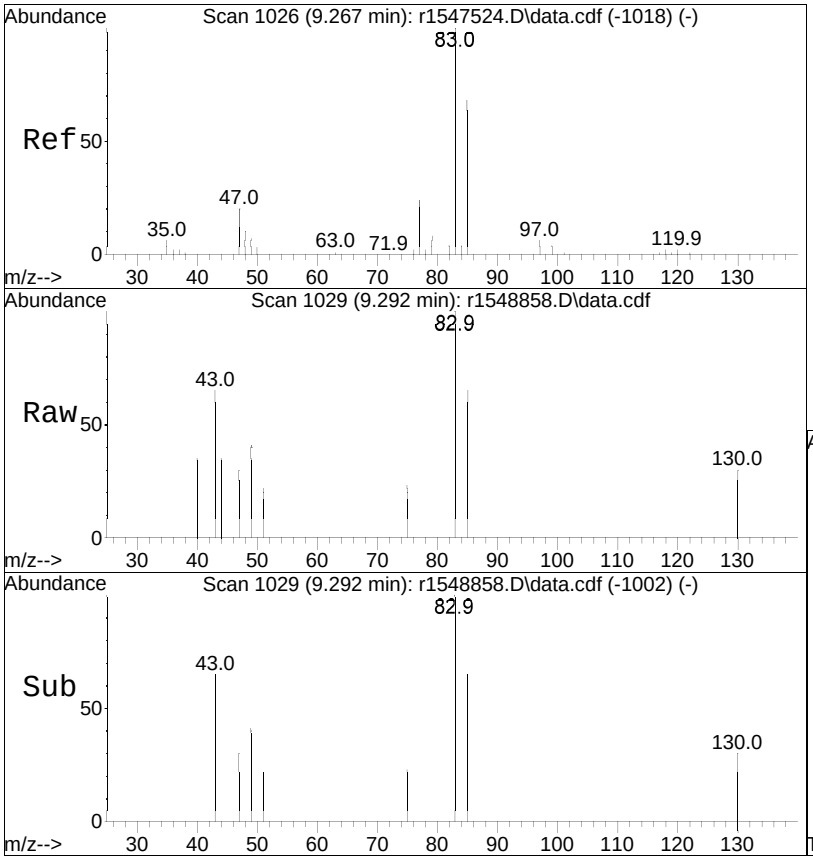


#38
Ethyl Acetate
Concen: 0.20 ppbV
RT: 9.233 min Scan# 1022
Delta R.T. 0.042 min
Lab File: r1548858.D
Acq: 19 Jun 2024 12:59 AM

Tgt Ion: 61 Resp: 1646

Ion	Ratio	Lower	Upper
61	100		
70	77.2	67.9	101.9
43	585.2	703.5	1055.3#

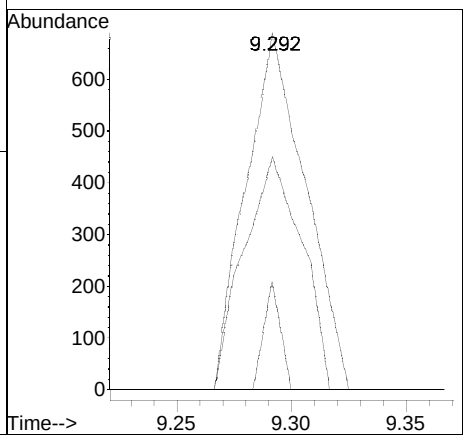


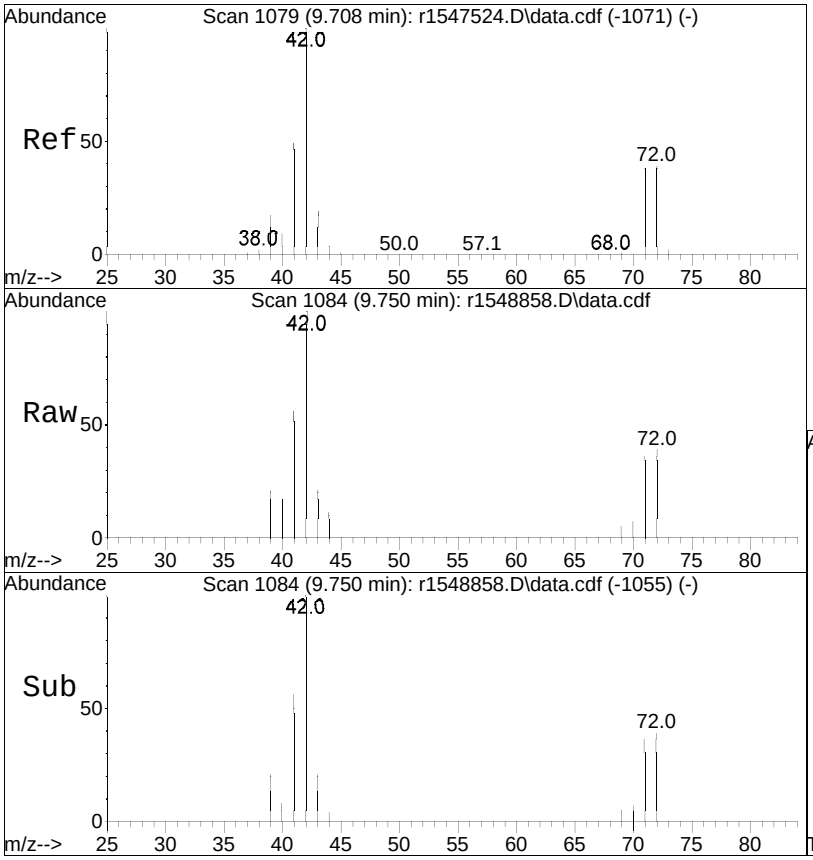


#39
chloroform
Concen: 0.04 ppbV
RT: 9.292 min Scan# 1029
Delta R.T. 0.025 min
Lab File: r1548858.D
Acq: 19 Jun 2024 12:59 AM

Tgt Ion: 83 Resp: 1236

Ion	Ratio	Lower	Upper
83	100		
85	65.2	54.3	81.5
47	30.4	16.4	24.6#

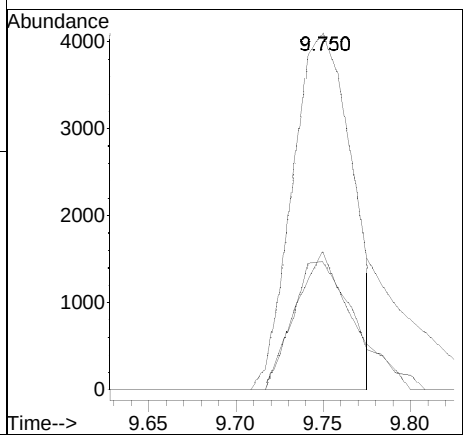


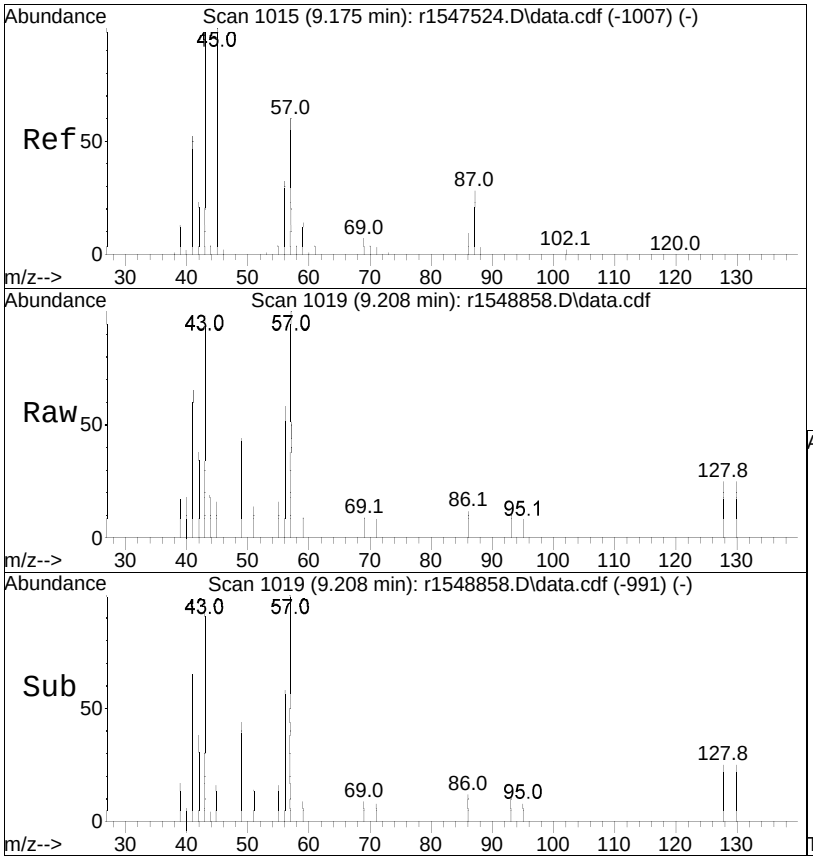


#40
Tetrahydrofuran
Concen: 0.36 ppbV m
RT: 9.750 min Scan# 1084
Delta R.T. 0.042 min
Lab File: r1548858.D
Acq: 19 Jun 2024 12:59 AM

Tgt Ion: 42 Resp: 9767

Ion	Ratio	Lower	Upper
42	100		
71	35.9	30.1	45.1
72	38.7	31.4	47.2

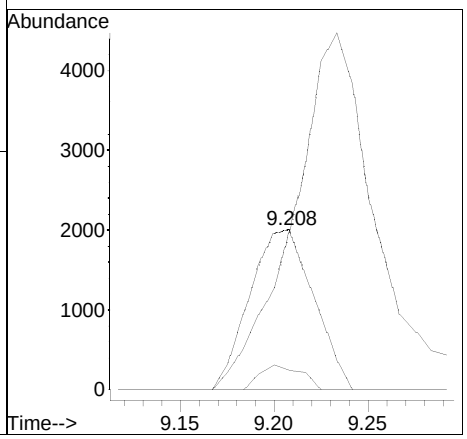


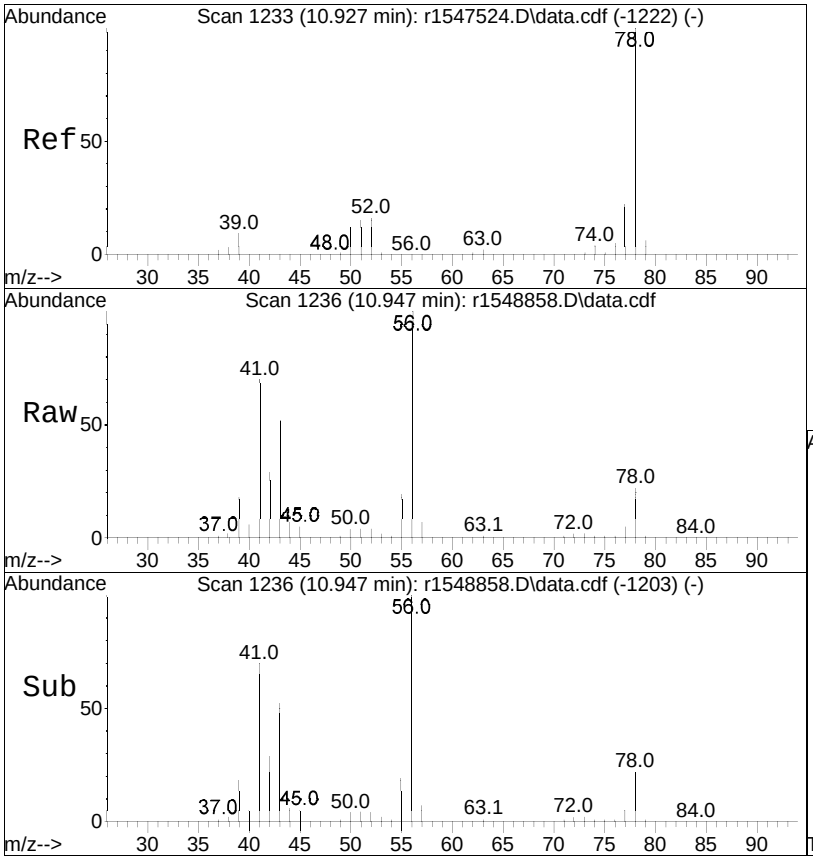


#44
hexane
Concen: 0.15 ppbV
RT: 9.208 min Scan# 1019
Delta R.T. 0.033 min
Lab File: r1548858.D
Acq: 19 Jun 2024 12:59 AM

Tgt Ion: 57 Resp: 4747

Ion	Ratio	Lower	Upper
57	100		
43	98.2	124.6	186.8#
86	12.1	11.5	17.3

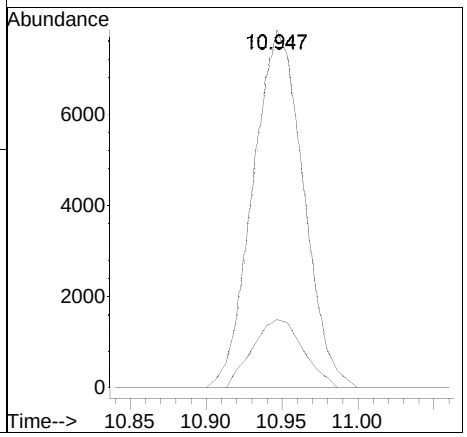


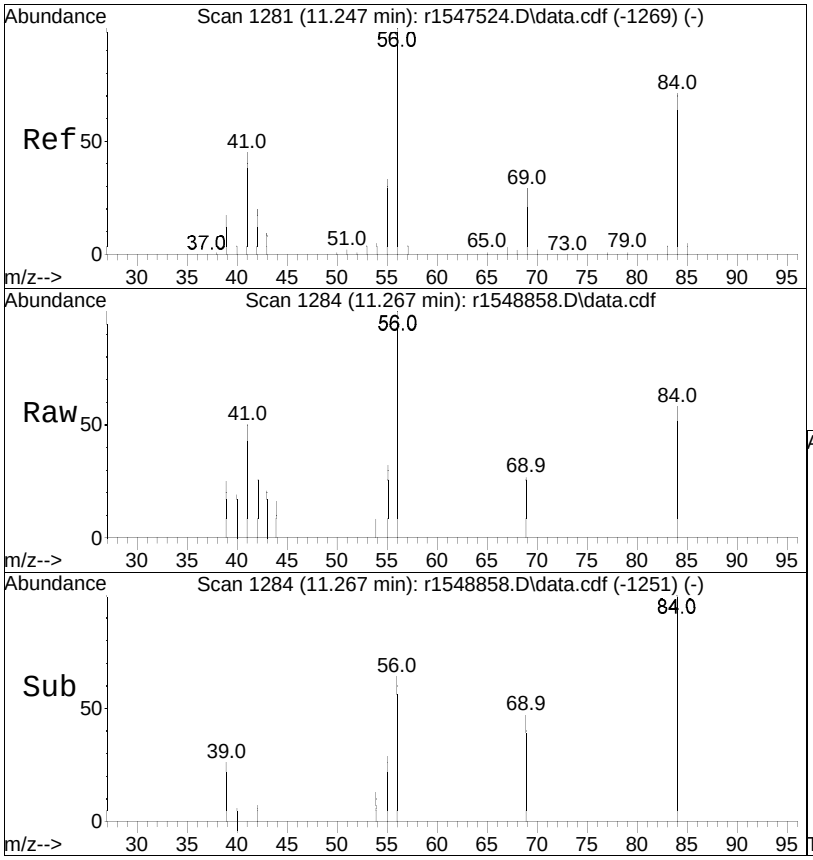


#50
benzene
Concen: 0.31 ppbV
RT: 10.947 min Scan# 1236
Delta R.T. 0.020 min
Lab File: r1548858.D
Acq: 19 Jun 2024 12:59 AM

Tgt Ion: 78 Resp: 18024

Ion	Ratio	Lower	Upper
78	100		
52	19.1	13.0	19.4

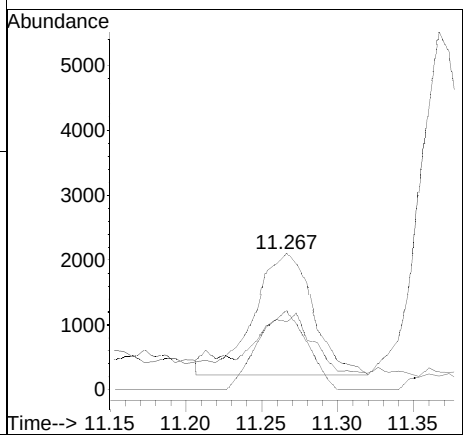


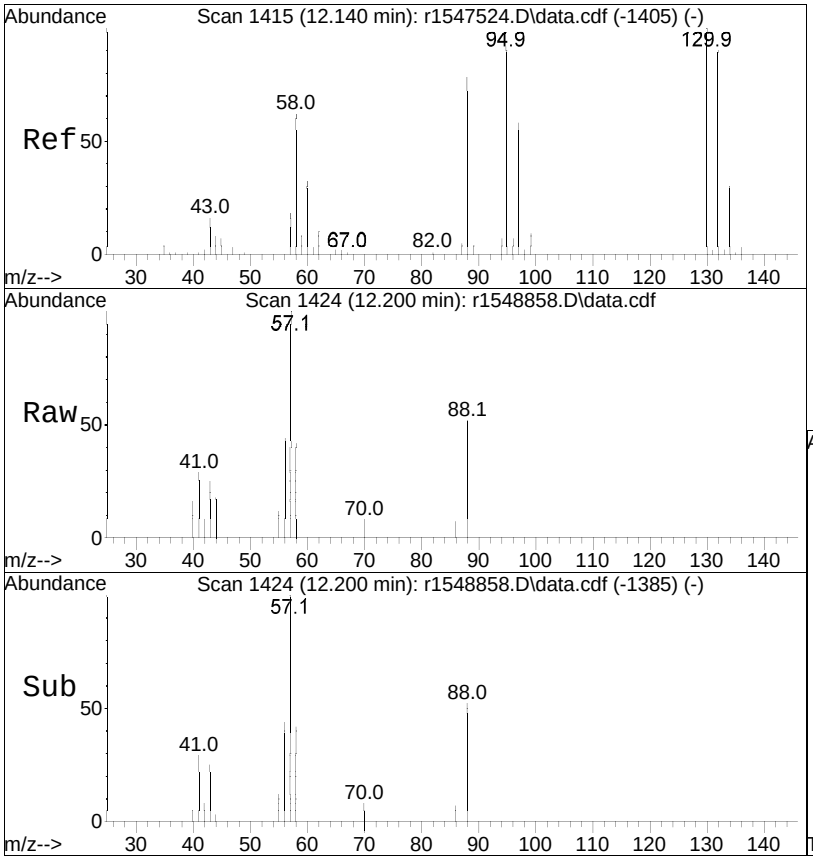


#53
cyclohexane
Concen: 0.15 ppbV
RT: 11.267 min Scan# 1284
Delta R.T. 0.020 min
Lab File: r1548858.D
Acq: 19 Jun 2024 12:59 AM

Tgt Ion: 56 Resp: 5184

Ion	Ratio	Lower	Upper
56	100		
84	58.2	57.2	85.8
41	49.8	35.9	53.9

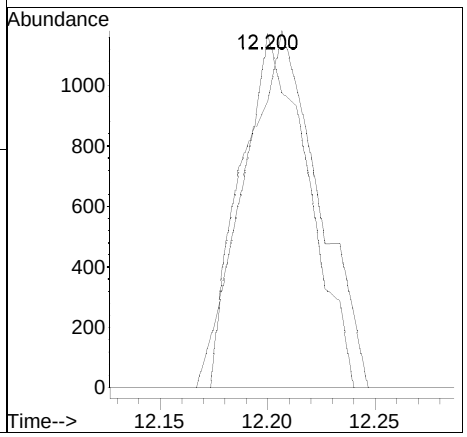


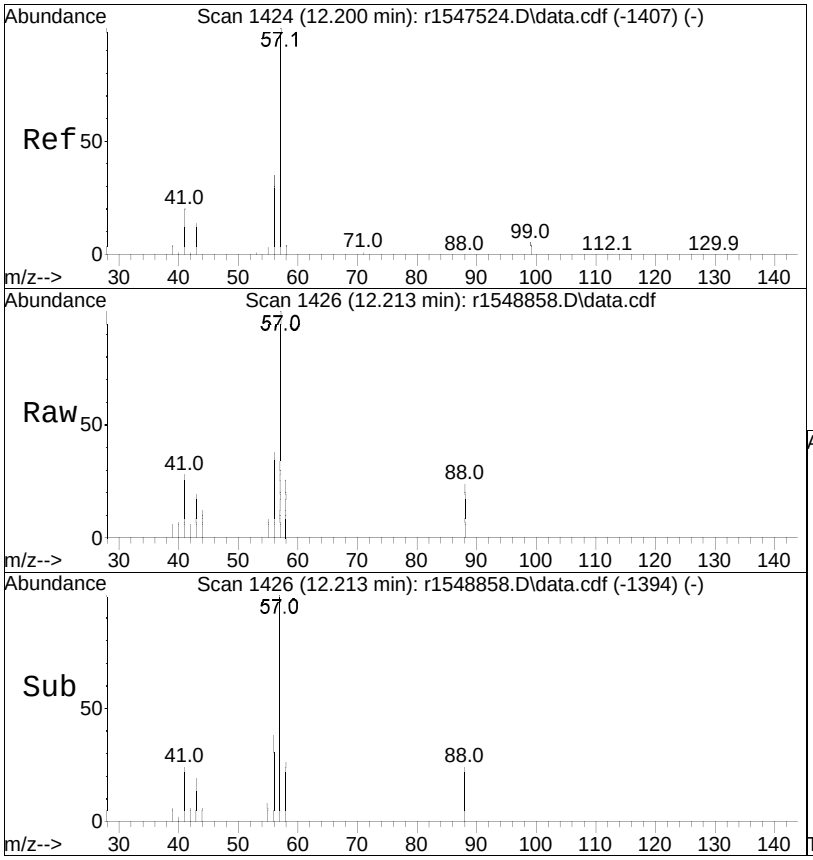


#58
1,4-dioxane
Concen: 0.19 ppbV
RT: 12.200 min Scan# 1424
Delta R.T. 0.060 min
Lab File: r1548858.D
Acq: 19 Jun 2024 12:59 AM

Tgt Ion: 88 Resp: 2545

Ion	Ratio	Lower	Upper
88	100		
58	80.7	63.4	95.0

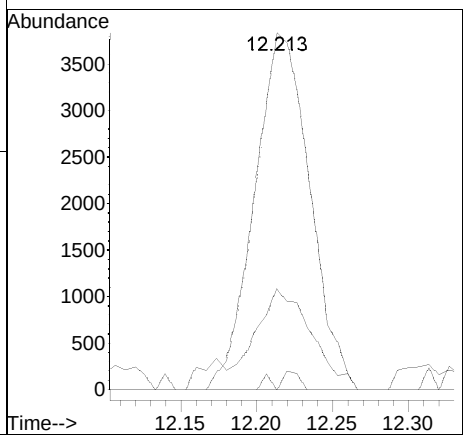


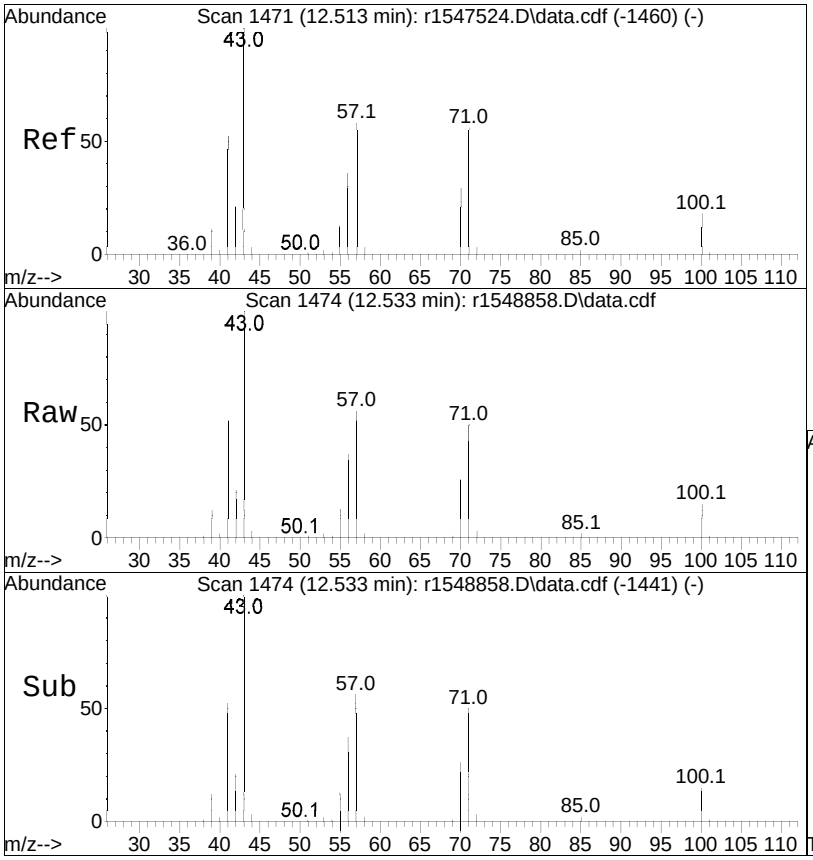


#60
2,2,4-trimethylpentane
Concen: 0.09 ppbV
RT: 12.213 min Scan# 1426
Delta R.T. 0.013 min
Lab File: r1548858.D
Acq: 19 Jun 2024 12:59 AM

Tgt Ion: 57 Resp: 9651

Ion	Ratio	Lower	Upper
57	100		
99	0.0	4.0	6.0#
41	28.3	16.1	24.1#

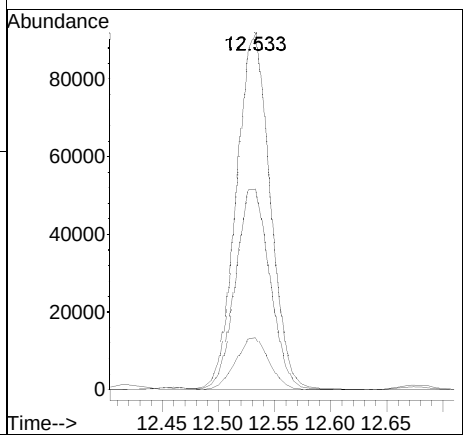


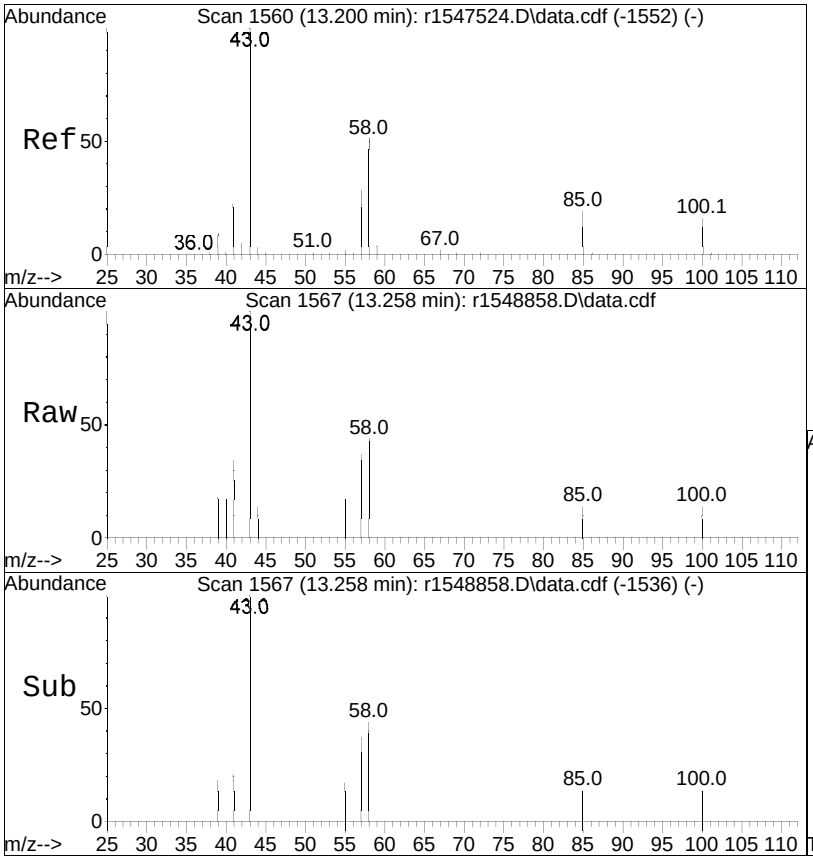


#62
heptane
Concen: 5.28 ppbV
RT: 12.533 min Scan# 1474
Delta R.T. 0.020 min
Lab File: r1548858.D
Acq: 19 Jun 2024 12:59 AM

Tgt Ion: 43 Resp: 190855

Ion	Ratio	Lower	Upper
43	100		
57	56.2	46.6	70.0
100	14.5	14.6	22.0#

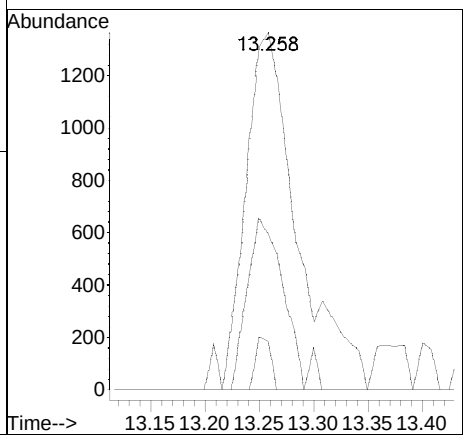


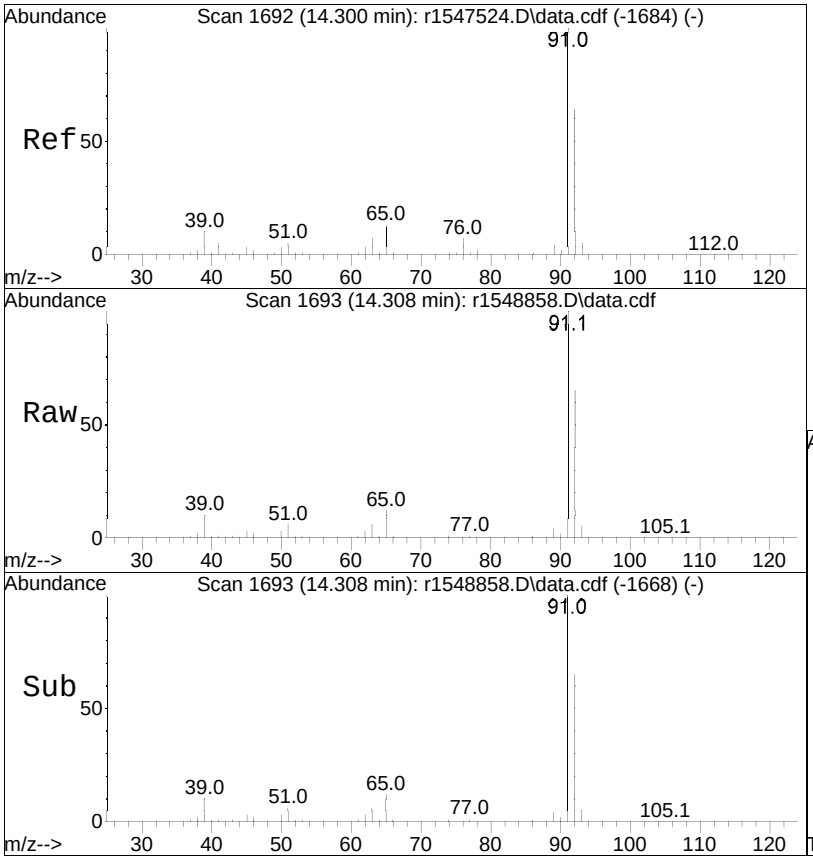


#64
4-methyl-2-pentanone
Concen: 0.11 ppbV
RT: 13.258 min Scan# 1567
Delta R.T. 0.058 min
Lab File: r1548858.D
Acq: 19 Jun 2024 12:59 AM

Tgt Ion: 43 Resp: 4567

Ion	Ratio	Lower	Upper
43	100		
58	43.5	41.0	61.4
100	13.6	13.0	19.6

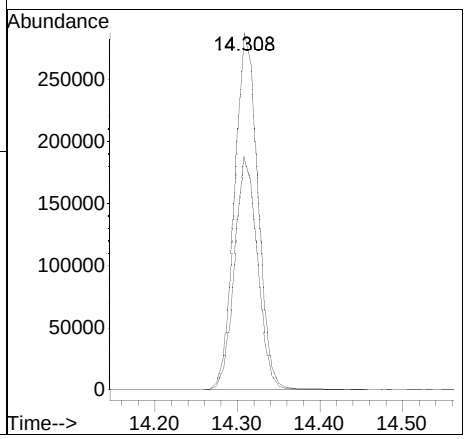


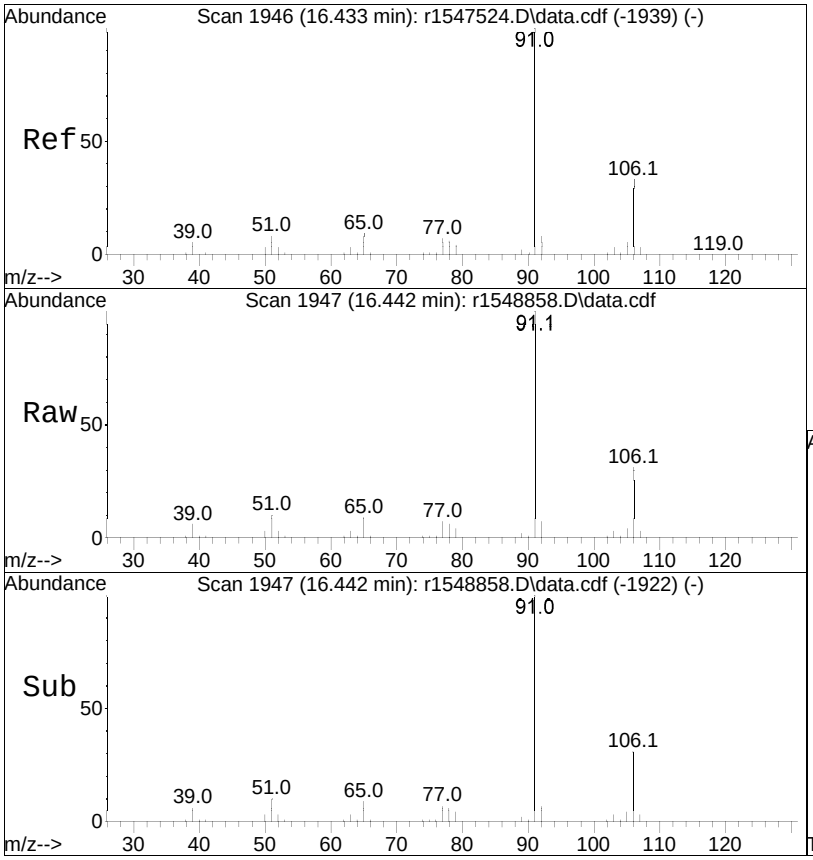


#68
toluene
Concen: 6.64 ppbV
RT: 14.308 min Scan# 1693
Delta R.T. 0.008 min
Lab File: r1548858.D
Acq: 19 Jun 2024 12:59 AM

Tgt Ion: 91 Resp: 564511

Ion	Ratio	Lower	Upper
91	100		
92	65.4	51.6	77.4

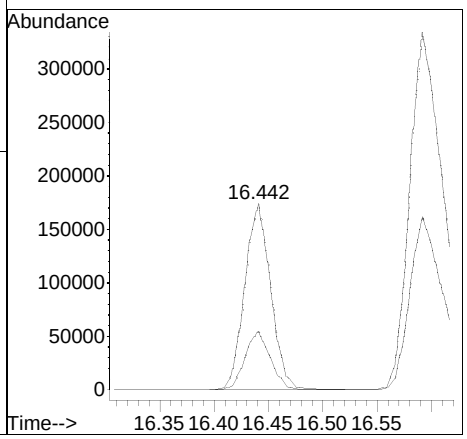


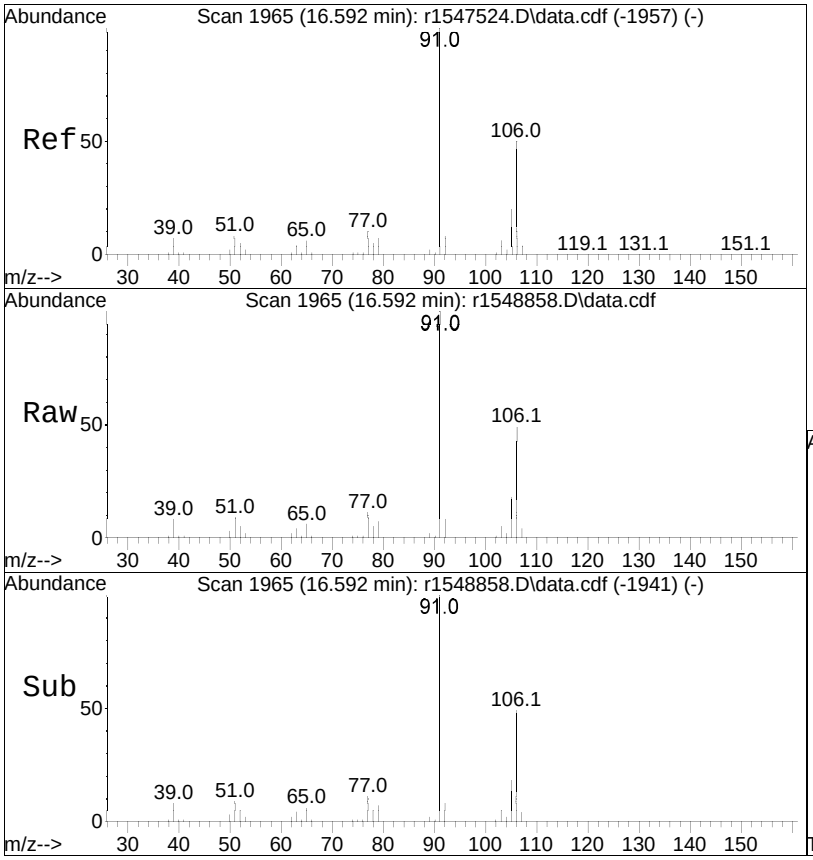


#81
ethylbenzene
Concen: 2.67 ppbV
RT: 16.442 min Scan# 1947
Delta R.T. 0.008 min
Lab File: r1548858.D
Acq: 19 Jun 2024 12:59 AM

Tgt Ion: 91 Resp: 290562

Ion	Ratio	Lower	Upper
91	100		
106	31.4	26.1	39.1

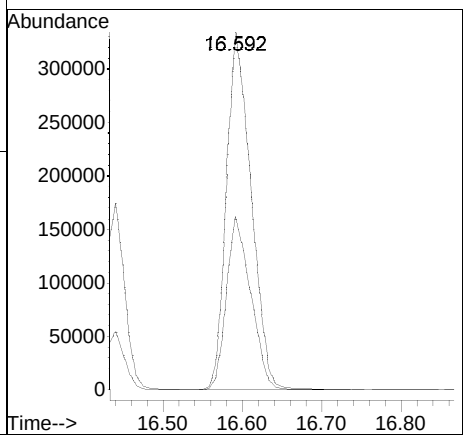


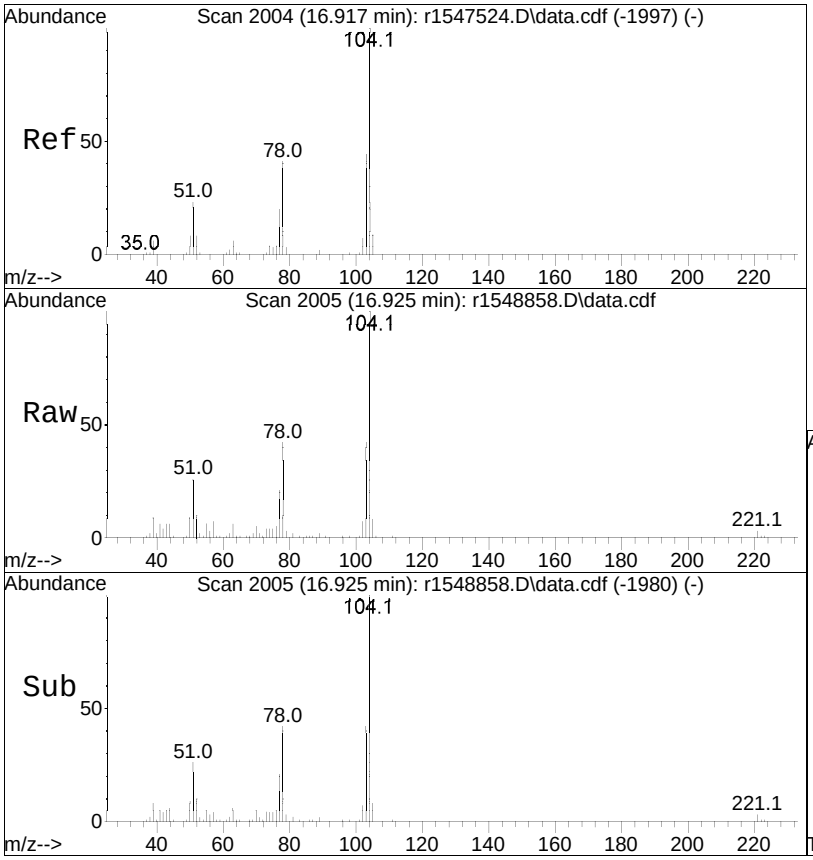


#83
m+p-xylene
Concen: 8.40 ppbV
RT: 16.592 min Scan# 1965
Delta R.T. 0.000 min
Lab File: r1548858.D
Acq: 19 Jun 2024 12:59 AM

Tgt Ion: 91 Resp: 716256

Ion	Ratio	Lower	Upper
91	100		
106	48.6	40.1	60.1

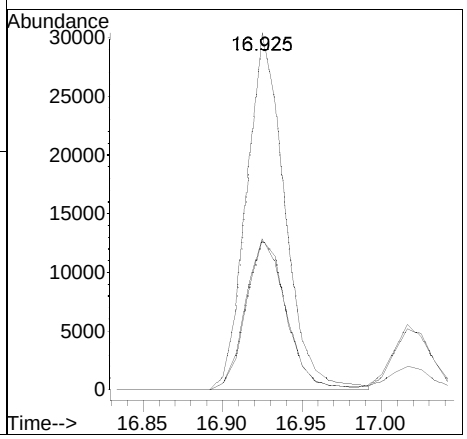


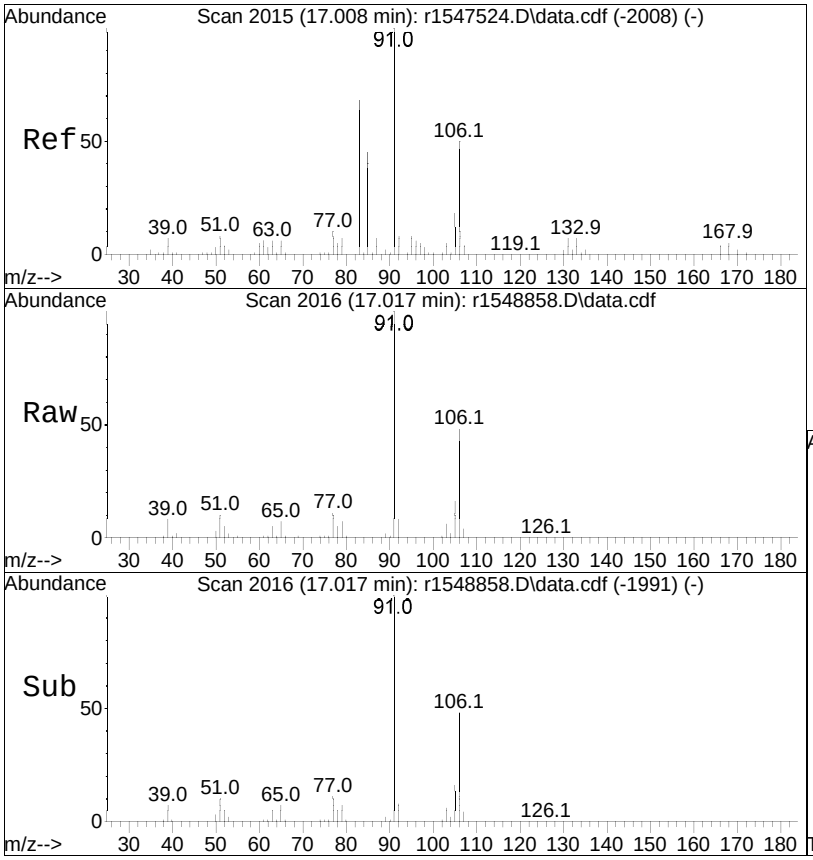


#85
styrene
Concen: 0.76 ppbV
RT: 16.925 min Scan# 2005
Delta R.T. 0.008 min
Lab File: r1548858.D
Acq: 19 Jun 2024 12:59 AM

Tgt Ion:104 Resp: 50713

Ion	Ratio	Lower	Upper
104	100		
103	42.3	35.2	52.8
78	41.9	32.6	48.8

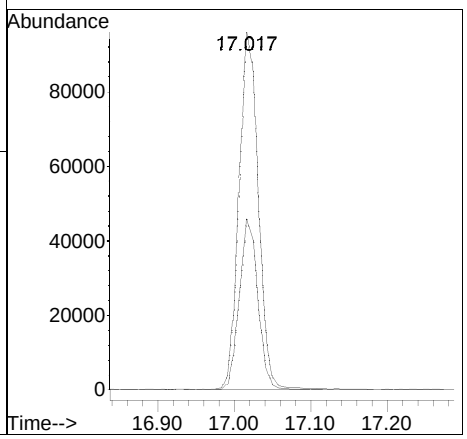


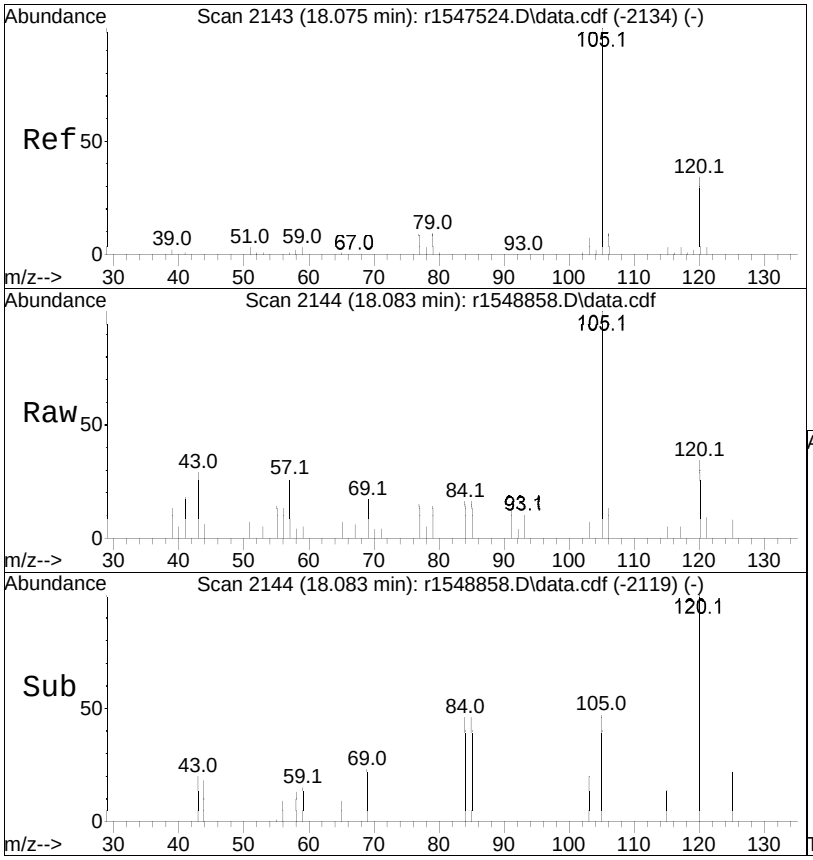


#87
o-xylene
Concen: 1.96 ppbV
RT: 17.017 min Scan# 2016
Delta R.T. 0.008 min
Lab File: r1548858.D
Acq: 19 Jun 2024 12:59 AM

Tgt Ion: 91 Resp: 167184

Ion	Ratio	Lower	Upper
91	100		
106	47.8	39.6	59.4

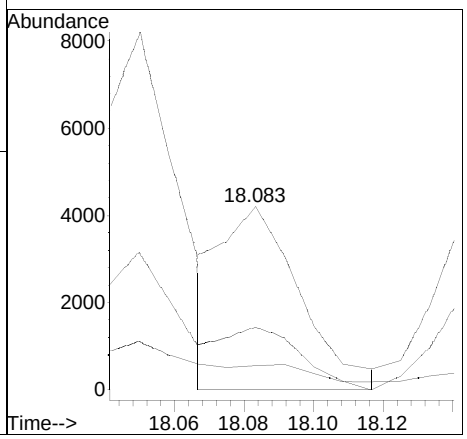


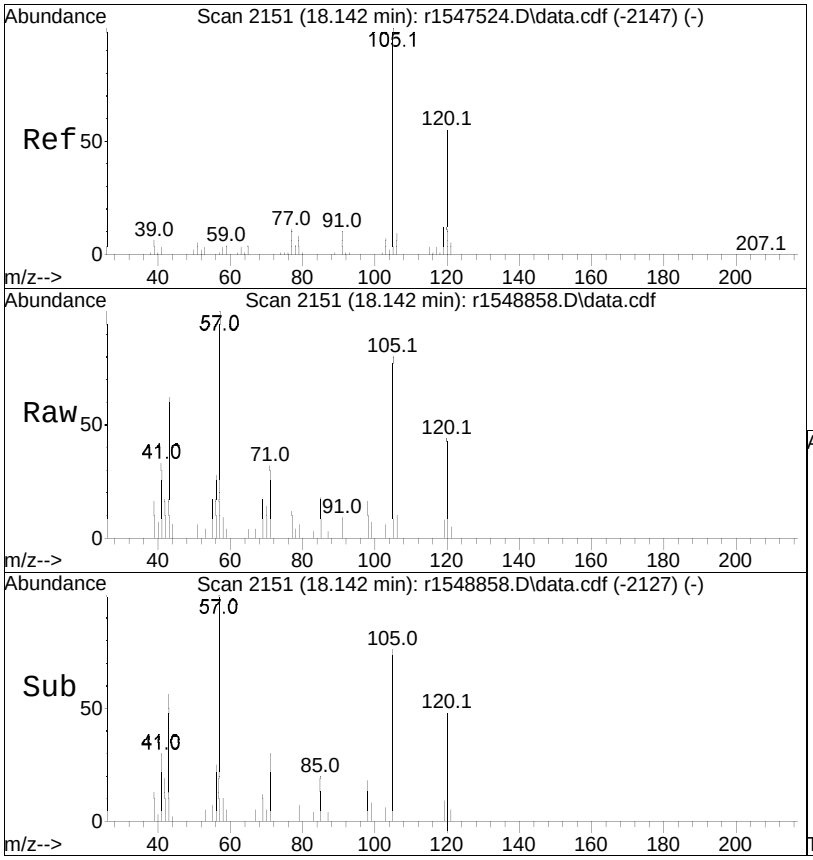


#96
4-ethyl toluene
Concen: 0.06 ppbV m
RT: 18.083 min Scan# 2144
Delta R.T. 0.008 min
Lab File: r1548858.D
Acq: 19 Jun 2024 12:59 AM

Tgt Ion:105 Resp: 6616

Ion	Ratio	Lower	Upper
105	100		
120	34.5	27.2	40.8
91	13.1	7.9	11.9#

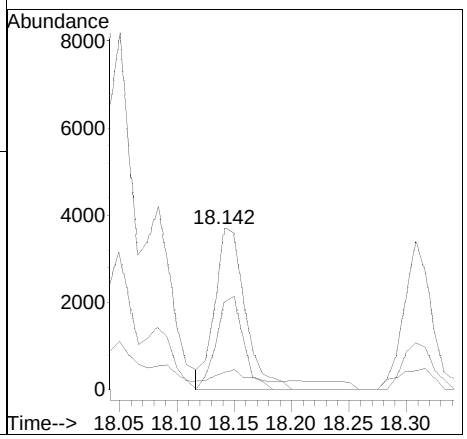


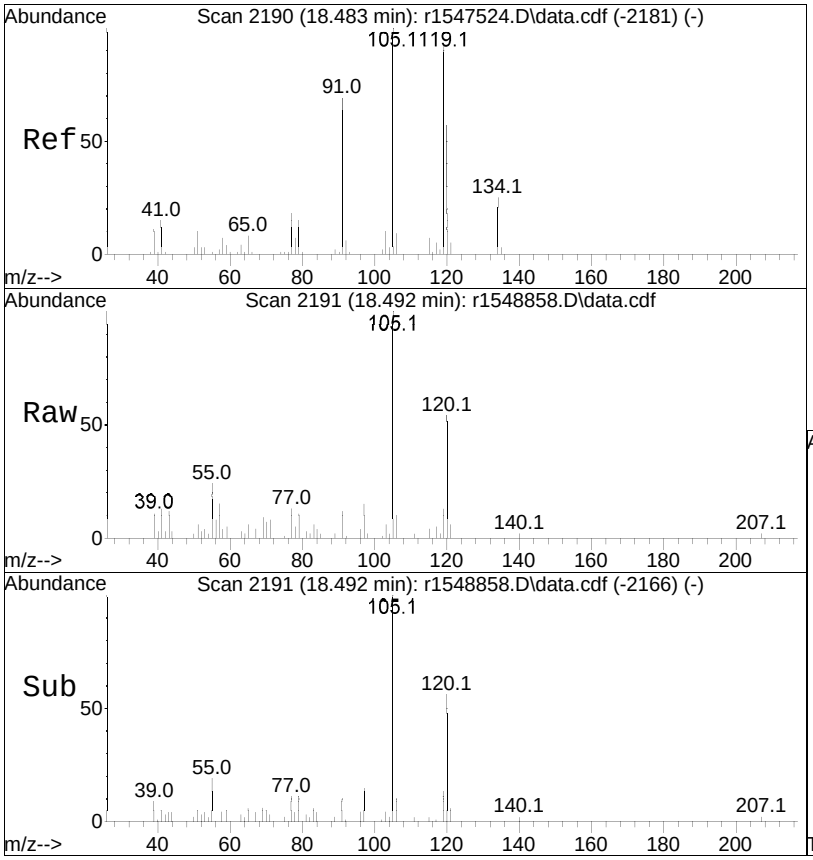


#97
1,3,5-trimethylbenzene
Concen: 0.07 ppbV
RT: 18.142 min Scan# 2151
Delta R.T. 0.000 min
Lab File: r1548858.D
Acq: 19 Jun 2024 12:59 AM

Tgt Ion:105 Resp: 8120

Ion	Ratio	Lower	Upper
105	100		
120	54.7	44.2	66.2
91	10.7	8.0	12.0

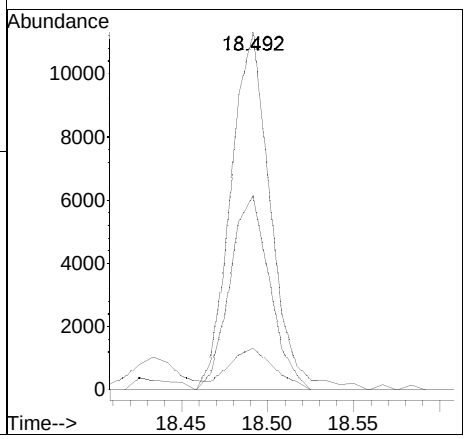


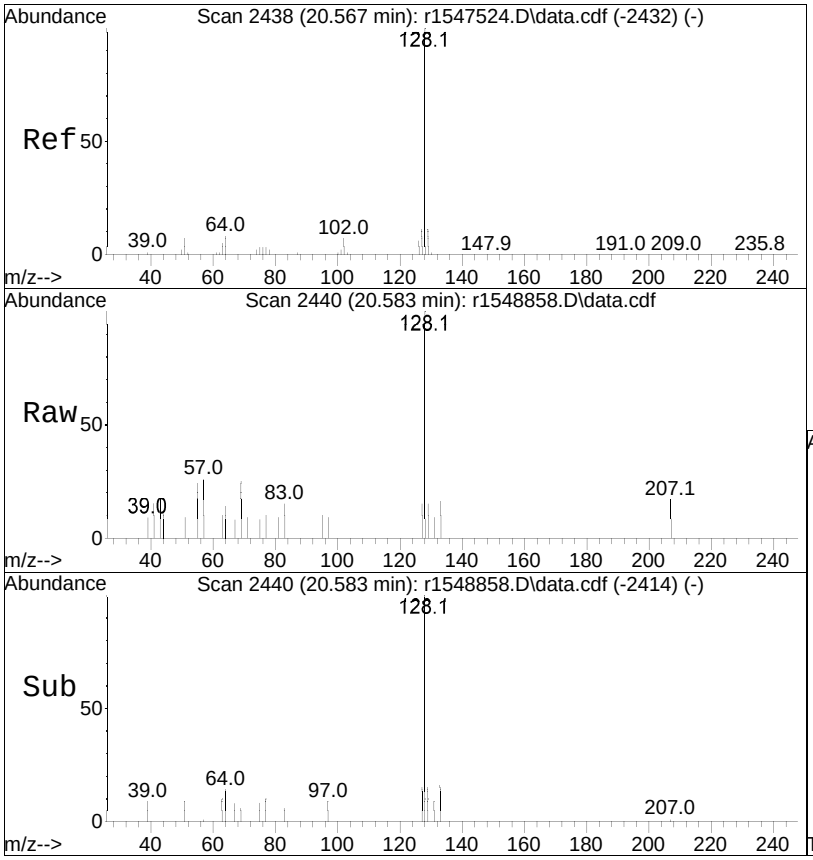


#99
1,2,4-trimethylbenzene
Concen: 0.20 ppbV
RT: 18.492 min Scan# 2191
Delta R.T. 0.008 min
Lab File: r1548858.D
Acq: 19 Jun 2024 12:59 AM

Tgt Ion:105 Resp: 18172

Ion	Ratio	Lower	Upper
105	100		
120	54.4	45.4	68.2
91	11.7	55.0	82.6#

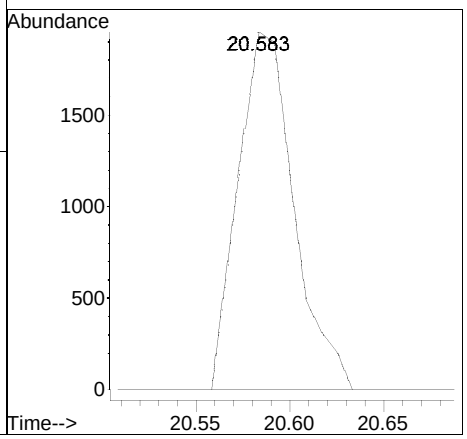




#116
naphthalene
Concen: 0.03 ppbV
RT: 20.583 min Scan# 2440
Delta R.T. 0.017 min
Lab File: r1548858.D
Acq: 19 Jun 2024 12:59 AM

Tgt Ion:128 Resp: 4023

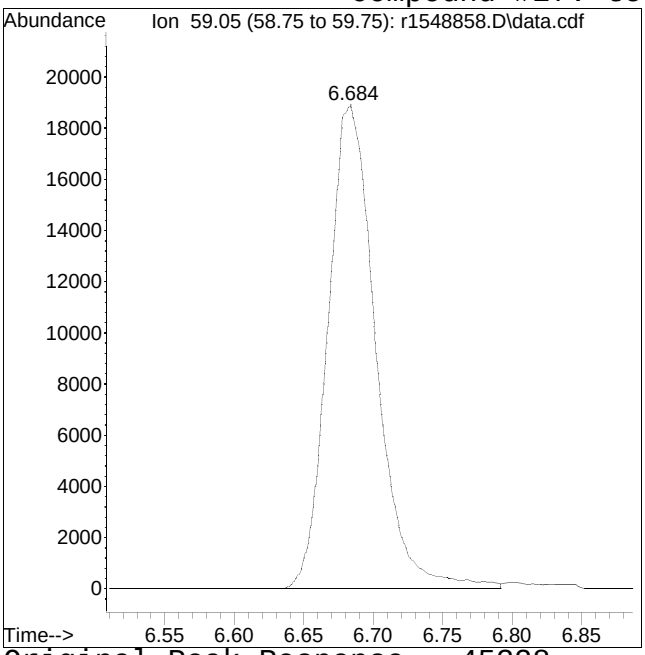
Ion	Ratio	Lower	Upper
128	100		
102	0.0	5.4	8.0#

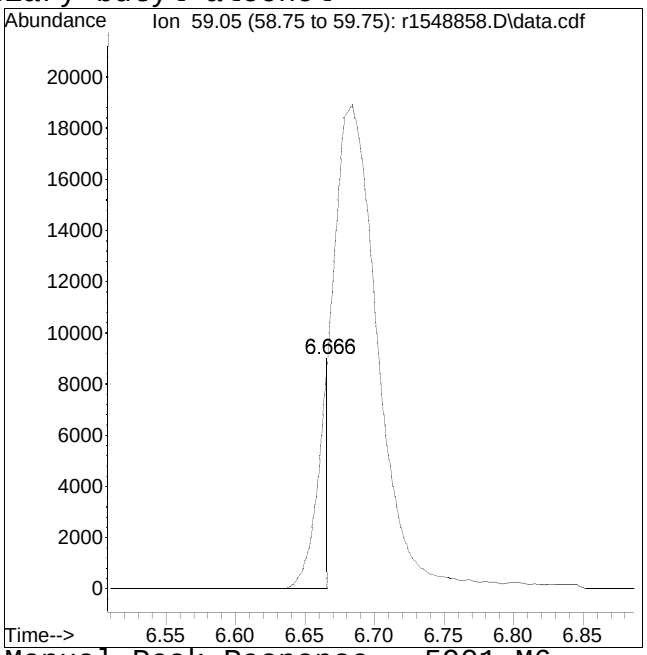


Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1548858.D Operator : AIRLAB15:JMB
Date Inj'd : 6/19/2020 0:2: 9 Instrument :
Sample : L2432670-09,3,250,250 Quant Date : 6/19/2024 7:11 am

Compound #27: tertiary butyl alcohol



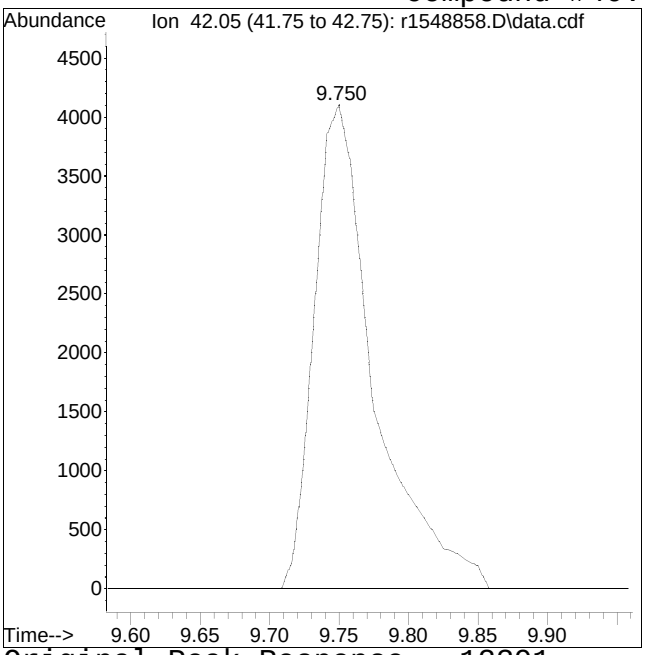


Original Peak Response = 45328 Manual Peak Response = 5901 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

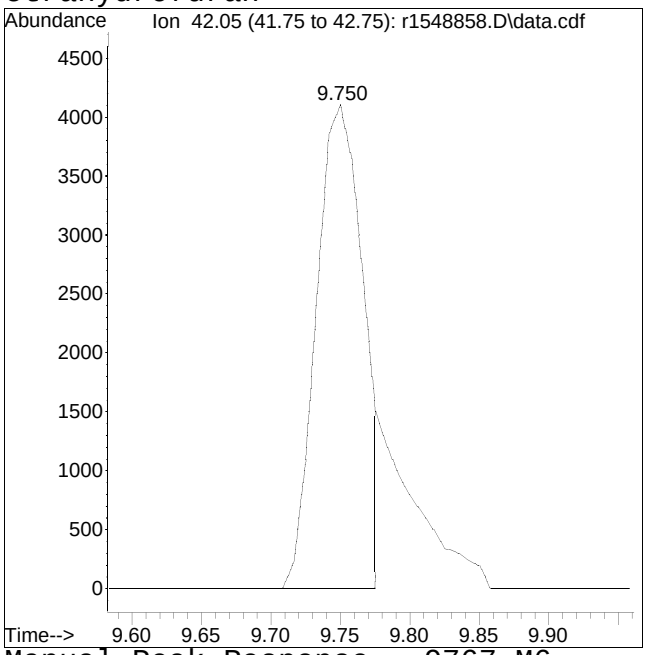
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1548858.D Operator : AIRLAB15:JMB
Date Inj'd : 6/19/2020 0:2: 9 Instrument :
Sample : L2432670-09,3,250,250 Quant Date : 6/19/2024 7:11 am

Compound #40: Tetrahydrofuran



Original Peak Response = 12391



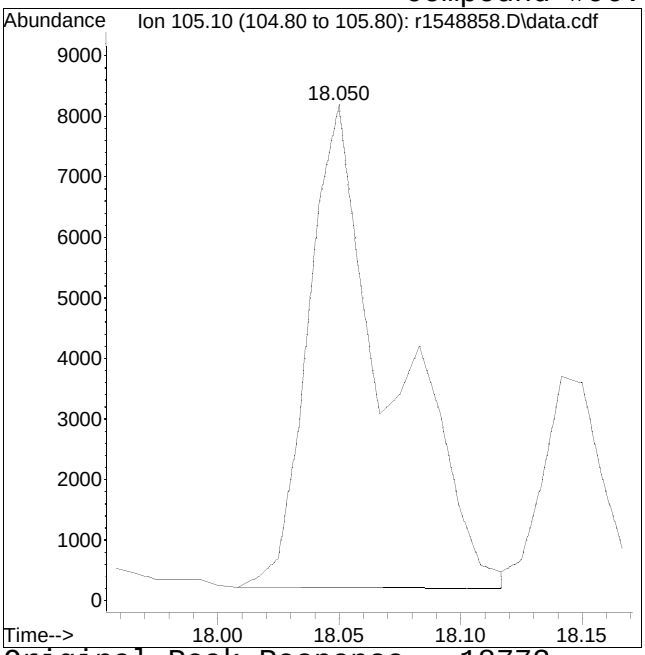
Manual Peak Response = 9767 M6

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

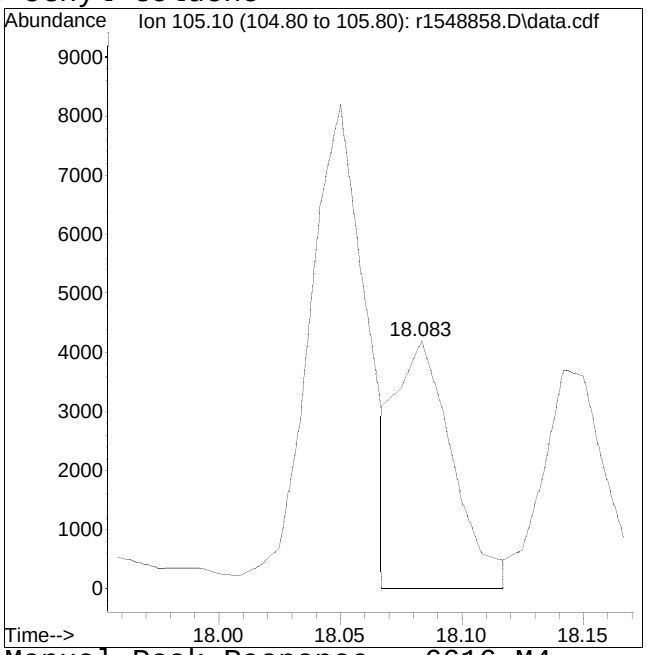
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1548858.D Operator : AIRLAB15:JMB
Date Inj'd : 6/19/2020 0:2: 9 Instrument :
Sample : L2432670-09,3,250,250 Quant Date : 6/19/2024 7:11 am

Compound #96: 4-ethyl toluene



Original Peak Response = 18773



Manual Peak Response = 6616 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548863.D
Acq On : 19 Jun 2024 4:07 AM
Operator : AIRLAB15:JMB
Sample : L2432670-02,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:13:09 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618T\r1548845.D
Sub List : TO15-NY+NAPH-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.142	49	300180	10.000	ppbV	0.02
Standard Area = 309658			Recovery =	96.94%		
43) 1,4-difluorobenzene	11.367	114	780570	10.000	ppbV	0.02
Standard Area = 833704			Recovery =	93.63%		
67) chlorobenzene-D5	16.050	54	147137	10.000	ppbV	0.00
Standard Area = 146665			Recovery =	100.32%		
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.012	85	15018	0.463	ppbV	99
6) chloromethane	4.180	50	7582	0.614	ppbV	98
7) Freon-114	4.282		0	N.D.		
10) 1,3-butadiene	4.558		0	N.D.		
13) bromomethane	4.834		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.170	31	5459900	555.178	ppbV	93
17) vinyl bromide	5.373		0	N.D.		
19) acetone	5.677	43	506938M6	25.557	ppbV	
21) trichlorofluoromethane	5.870	101	5596	0.211	ppbV	89
22) isopropyl alcohol	5.977	45	220823	9.073	ppbV	98
27) tertiary butyl alcohol	6.654	59	10084M6	0.258	ppbV	
28) methylene chloride	6.720	49	5267	0.237	ppbV	100
29) 3-chloropropene	0.000		0	N.D.	d	
30) carbon disulfide	7.026		0	N.D.		
31) Freon 113	7.014	101	2385	0.060	ppbV	90
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	8.075		0	N.D.		
36) 2-butanone	8.467	43	39674396	893.143	ppbV #	70
38) Ethyl Acetate	9.217	61	1443	0.169	ppbV #	80
39) chloroform	9.300	83	1066	0.031	ppbV #	88
40) Tetrahydrofuran	9.733	42	10824	0.385	ppbV	93
42) 1,2-dichloroethane	10.125		0	N.D.		
44) hexane	9.200	57	4573	0.134	ppbV #	92
50) benzene	10.947	78	7494	0.124	ppbV	96
53) cyclohexane	11.267	56	4224	0.115	ppbV #	83
56) 1,2-dichloropropane	0.000		0	N.D.		

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548863.D
Acq On : 19 Jun 2024 4:07 AM
Operator : AIRLAB15:JMB
Sample : L2432670-02,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:13:09 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618T\r1548845.D
Sub List : TO15-NY+NAPH-7-SIM - .

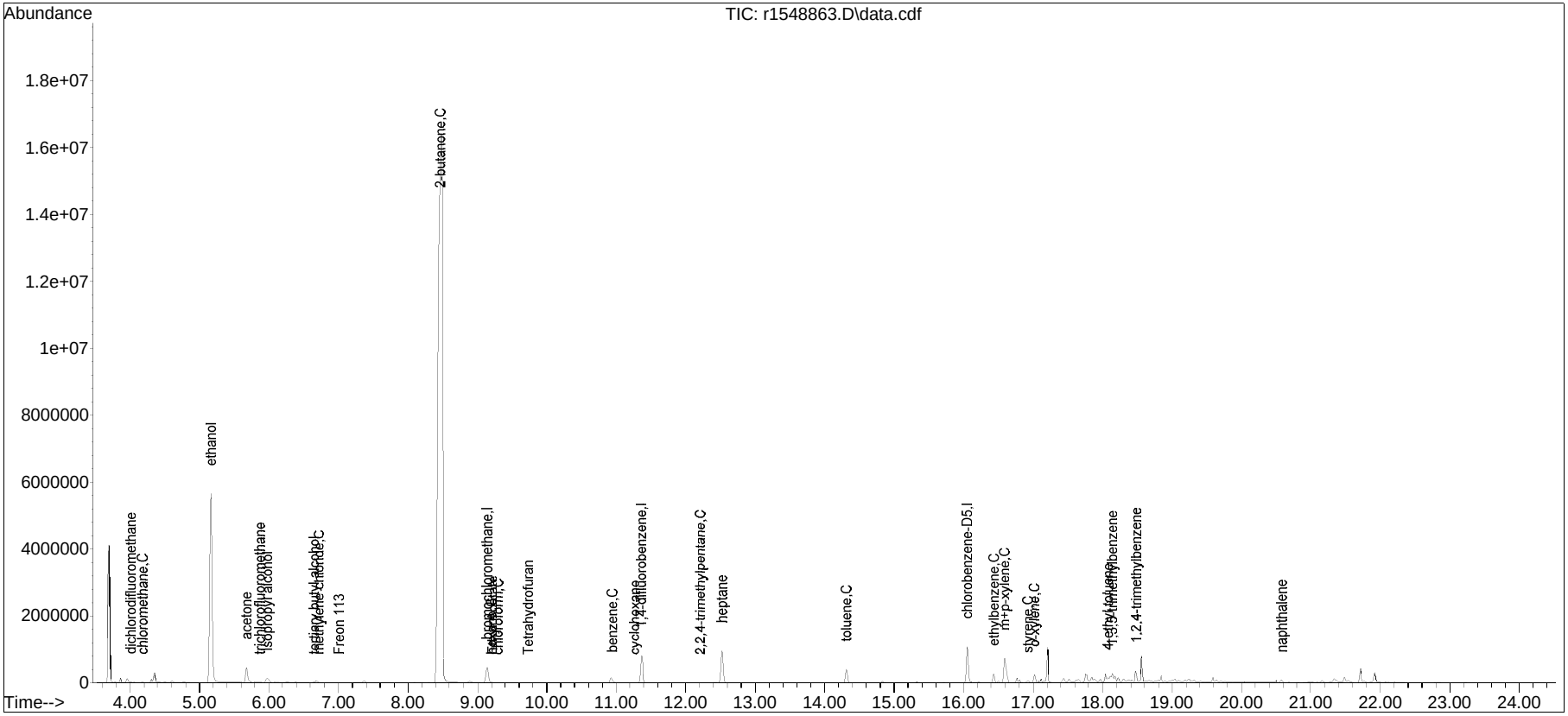
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
57)	bromodichloromethane	0.000		0	N.D.			
58)	1,4-dioxane	12.207		0	N.D.			
60)	2,2,4-trimethylpentane	12.213	57	7626	0.067	ppbV		94
62)	heptane	12.527	43	483741	12.729	ppbV		98
63)	cis-1,3-dichloropropene	0.000		0	N.D.			
64)	4-methyl-2-pentanone	13.175		0	N.D.			
65)	trans-1,3-dichloropropene	0.000		0	N.D.			
66)	1,1,2-trichloroethane	0.000		0	N.D.			
68)	toluene	14.308	91	331124	3.575	ppbV		97
72)	2-hexanone	14.567		0	N.D.			
74)	dibromochloromethane	0.000		0	N.D.			
75)	1,2-dibromoethane	0.000		0	N.D.			
80)	chlorobenzene	16.108		0	N.D.			
81)	ethylbenzene	16.442	91	211727	1.784	ppbV		96
83)	m+p-xylene	16.592	91	615282	6.620	ppbV		96
84)	bromoform	0.000		0	N.D.			
85)	styrene	16.925	104	10796	0.148	ppbV		95
86)	1,1,2,2-tetrachloroethane	17.000		0	N.D.			
87)	o-xylene	17.017	91	142835	1.538	ppbV		95
96)	4-ethyl toluene	18.083	105	42309M4	0.345	ppbV		
97)	1,3,5-trimethylbenzene	18.142	105	57315	0.484	ppbV		96
99)	1,2,4-trimethylbenzene	18.483	105	124866	1.237	ppbV	#	61
101)	Benzyl Chloride	18.608		0	N.D.			
102)	1,3-dichlorobenzene	18.675		0	N.D.			
103)	1,4-dichlorobenzene	18.675		0	N.D.			
107)	1,2-dichlorobenzene	0.000		0	N.D.			
115)	1,2,4-trichlorobenzene	0.000		0	N.D.			
116)	naphthalene	20.583	128	54858	0.413	ppbV		100
119)	hexachlorobutadiene	0.000		0	N.D.			

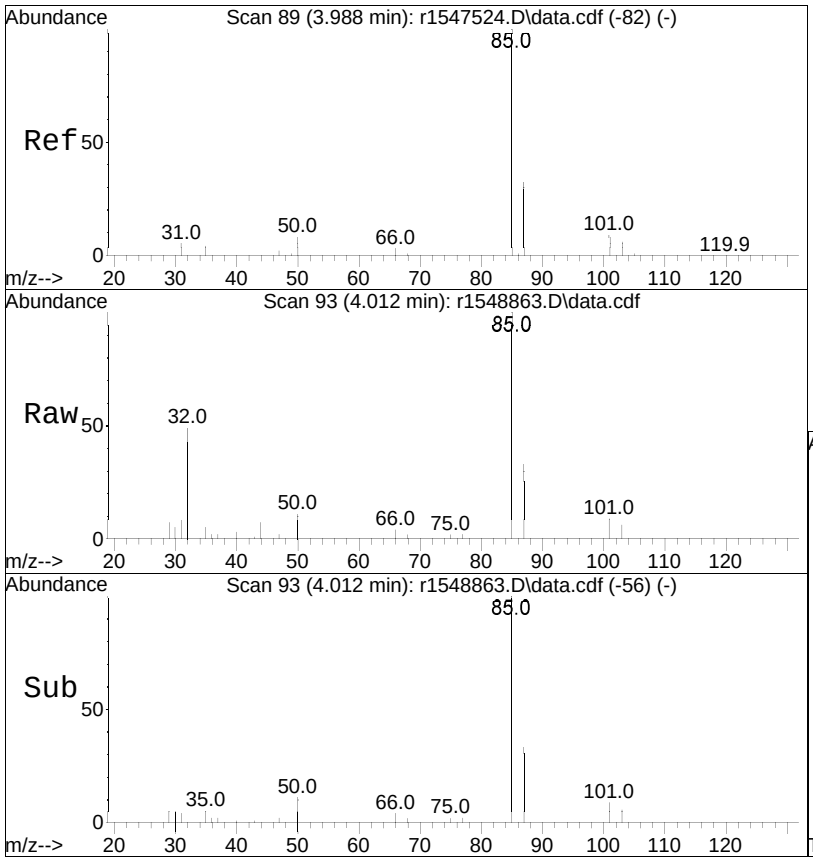
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY+NAPH-7-SIM - .ab15\2024\06\0618T\r1548845.D

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548863.D
Acq On : 19 Jun 2024 4:07 AM
Operator : AIRLAB15:JMB
Sample : L2432670-02,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:13:09 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

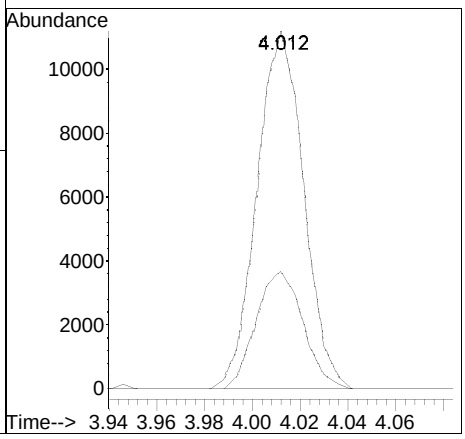


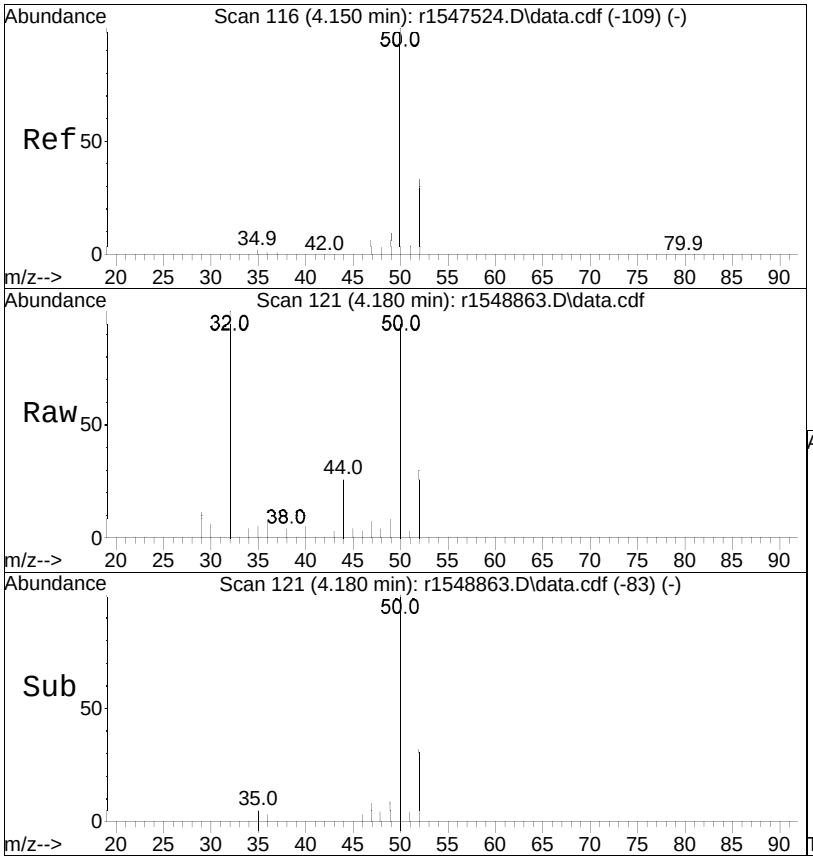


#5
dichlorodifluoromethane
Concen: 0.46 ppbV
RT: 4.012 min Scan# 93
Delta R.T. 0.024 min
Lab File: r1548863.D
Acq: 19 Jun 2024 4:07 AM

Tgt Ion: 85 Resp: 15018

Ion	Ratio	Lower	Upper
85	100		
87	32.9	25.8	38.8

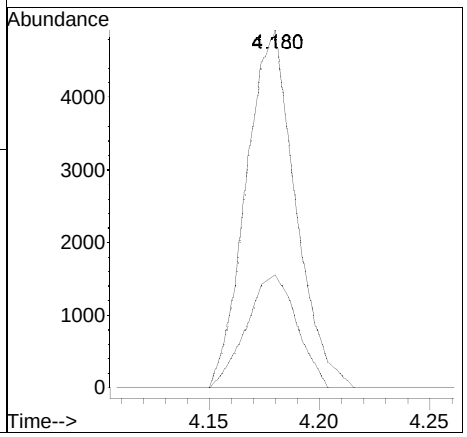


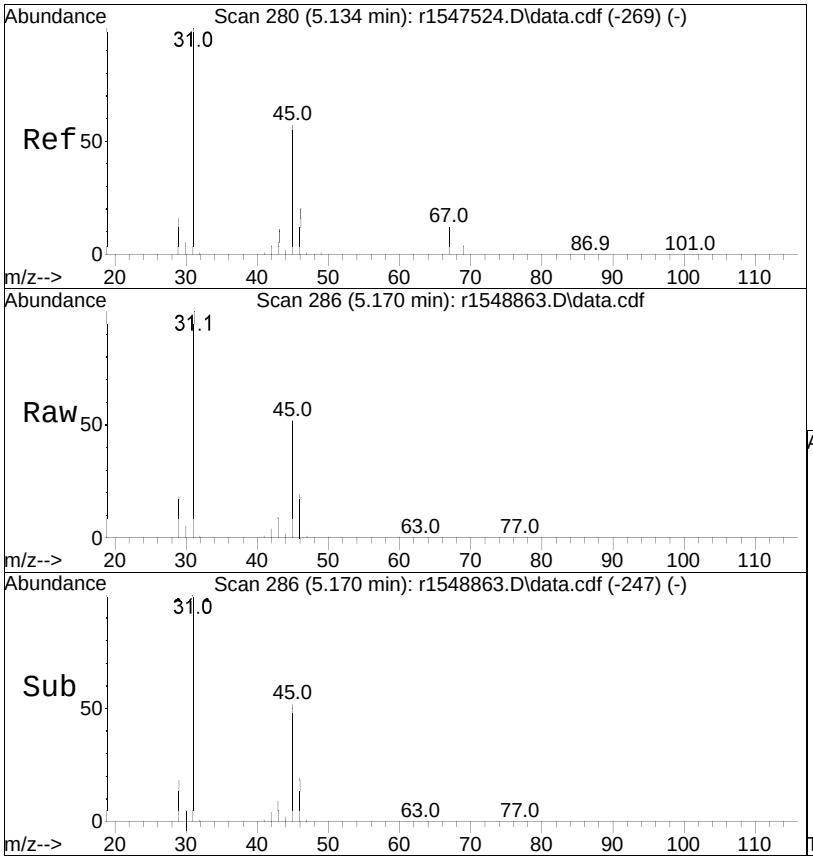


#6
chloromethane
Concen: 0.61 ppbV
RT: 4.180 min Scan# 121
Delta R.T. 0.030 min
Lab File: r1548863.D
Acq: 19 Jun 2024 4:07 AM

Tgt Ion: 50 Resp: 7582

Ion	Ratio	Lower	Upper
50	100		
52	31.6	26.0	39.0

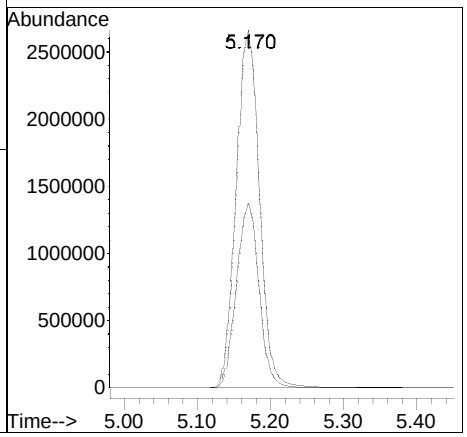


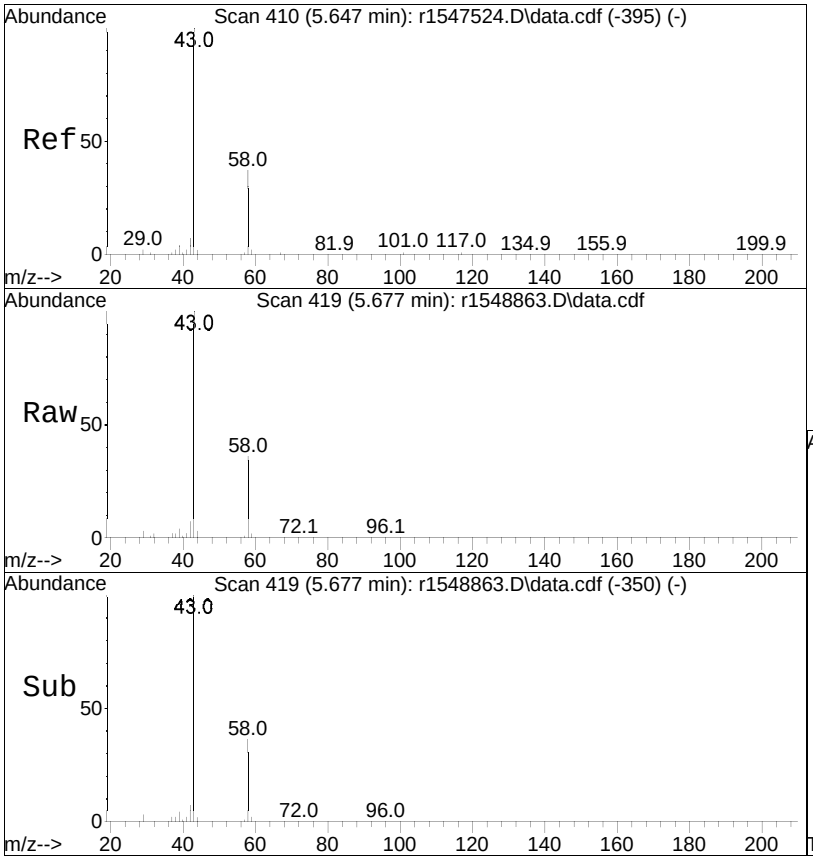


#15
ethanol
Concen: 555.18 ppbV
RT: 5.170 min Scan# 286
Delta R.T. 0.036 min
Lab File: r1548863.D
Acq: 19 Jun 2024 4:07 AM

Tgt Ion: 31 Resp: 5459900

Ion	Ratio	Lower	Upper
31	100		
45	51.9	45.7	68.5

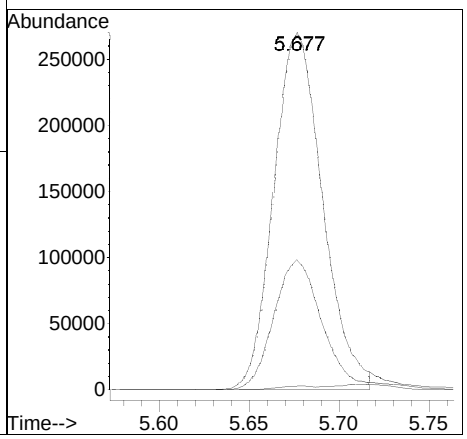


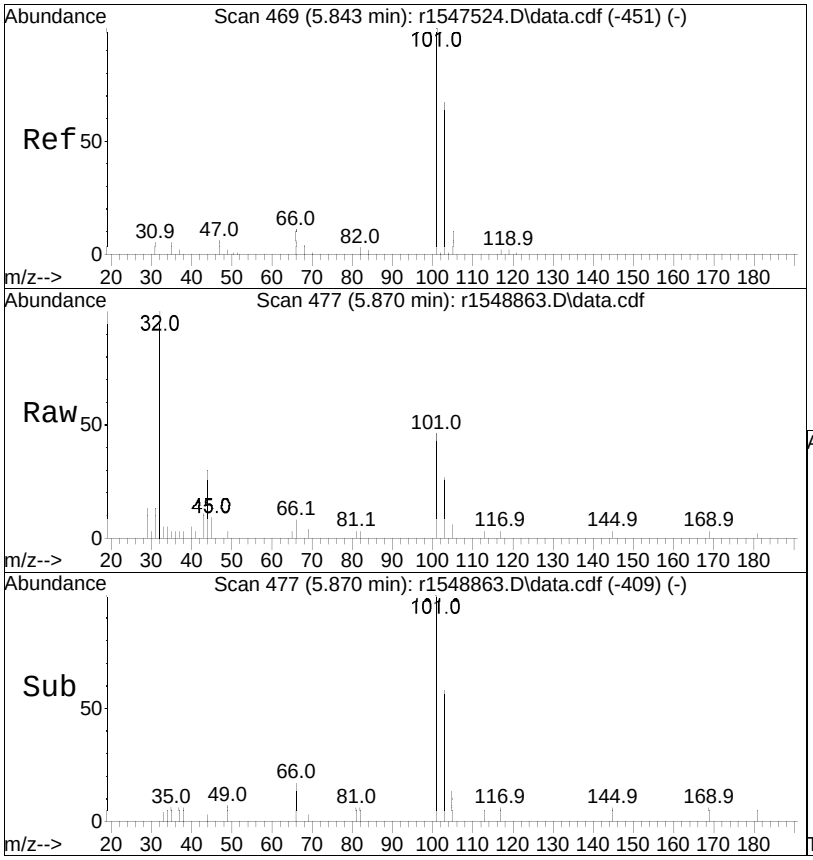


#19
acetone
Concen: 25.56 ppbV m
RT: 5.677 min Scan# 419
Delta R.T. 0.030 min
Lab File: r1548863.D
Acq: 19 Jun 2024 4:07 AM

Tgt Ion: 43 Resp: 506938

Ion	Ratio	Lower	Upper
43	100		
58	36.3	29.4	44.0
57	1.0	0.7	1.1

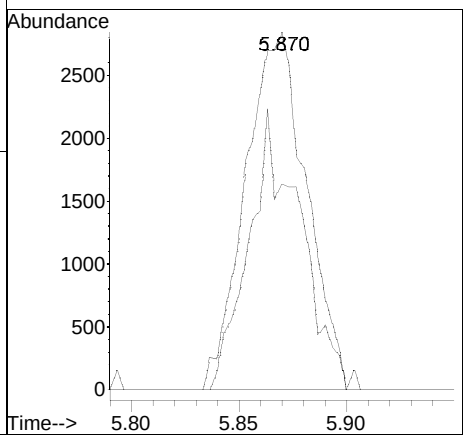


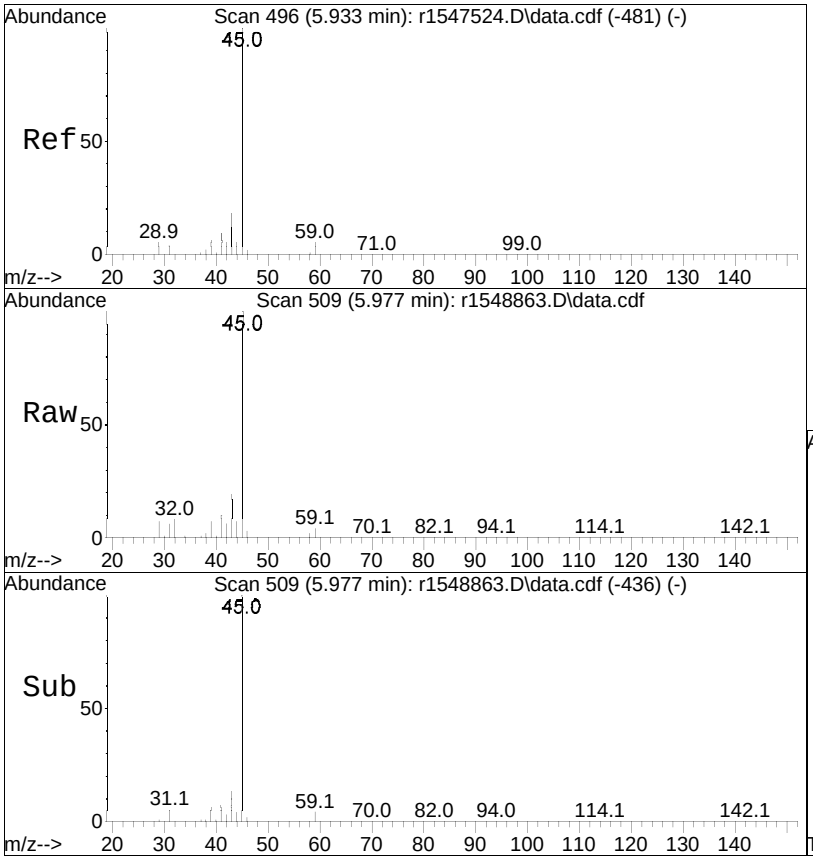


#21
trichlorofluoromethane
Concen: 0.21 ppbV
RT: 5.870 min Scan# 477
Delta R.T. 0.027 min
Lab File: r1548863.D
Acq: 19 Jun 2024 4:07 AM

Tgt Ion:101 Resp: 5596

Ion	Ratio	Lower	Upper
101	100		
103	57.7	53.4	80.0

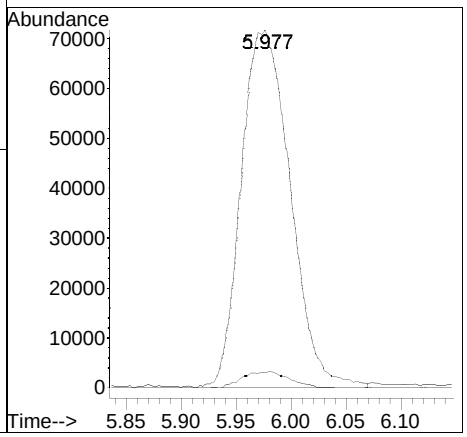


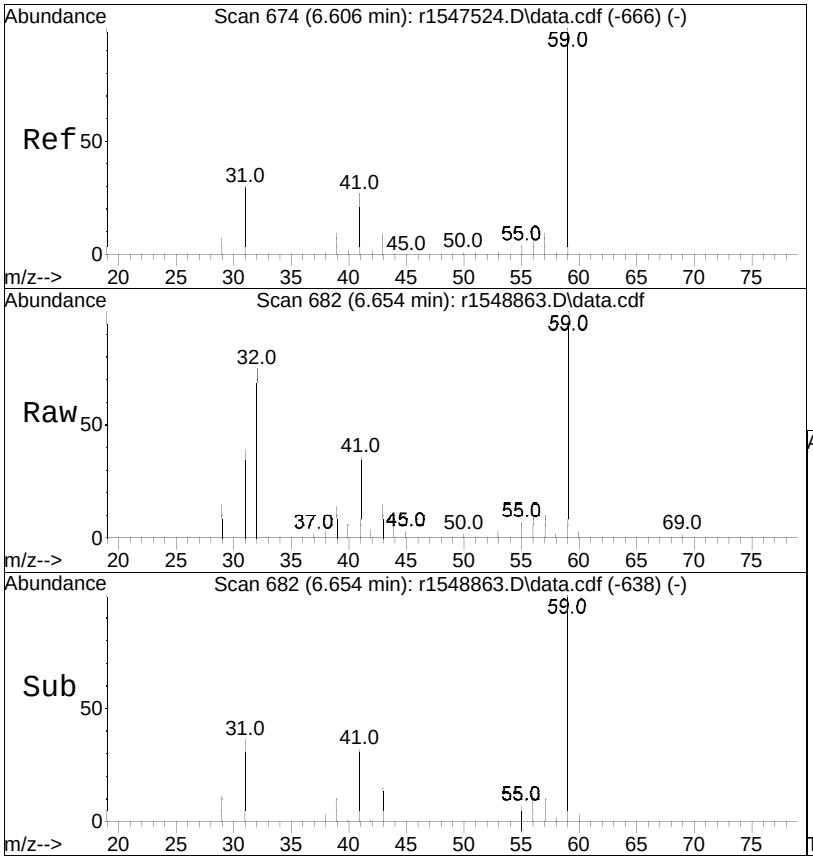


#22
isopropyl alcohol
Concen: 9.07 ppbV
RT: 5.977 min Scan# 509
Delta R.T. 0.043 min
Lab File: r1548863.D
Acq: 19 Jun 2024 4:07 AM

Tgt Ion: 45 Resp: 220823

Ion	Ratio	Lower	Upper
45	100		
59	4.1	3.8	5.6

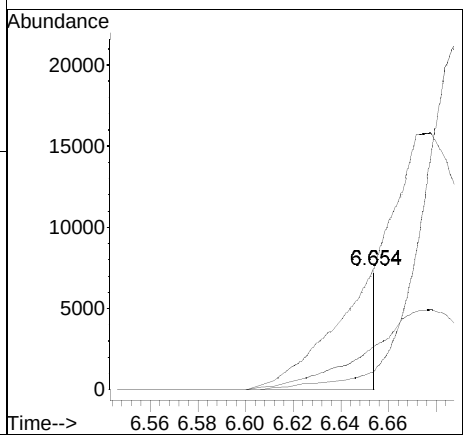


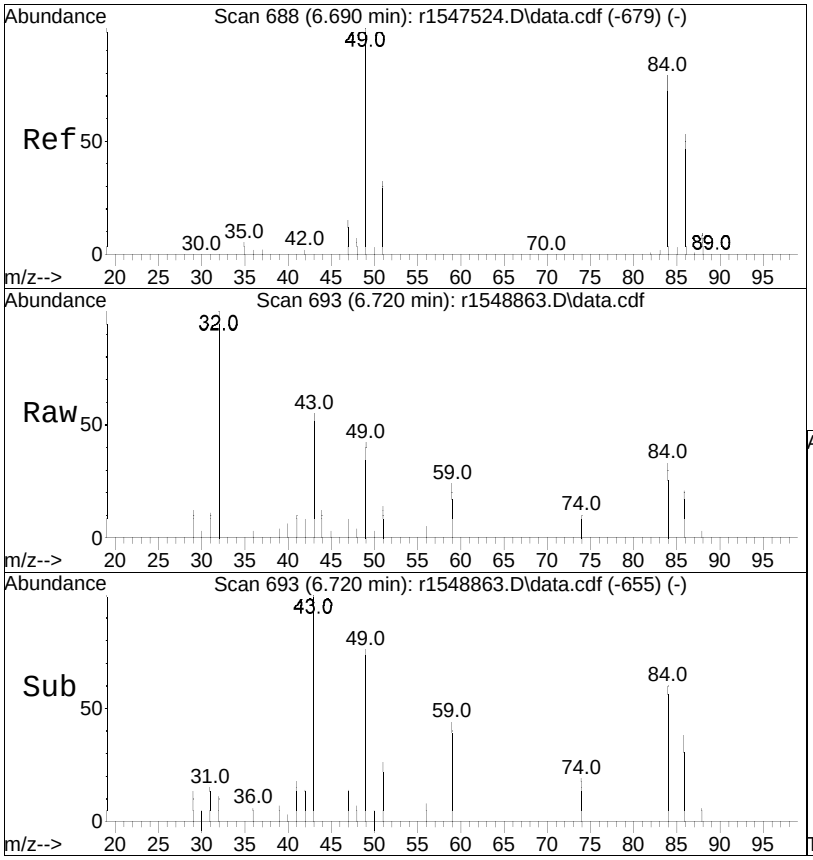


#27
tertiary butyl alcohol
Concen: 0.26 ppbV m
RT: 6.654 min Scan# 682
Delta R.T. 0.048 min
Lab File: r1548863.D
Acq: 19 Jun 2024 4:07 AM

Tgt Ion: 59 Resp: 10084

Ion	Ratio	Lower	Upper
59	100		
41	36.2	21.3	31.9#
43	15.4	7.4	11.0#

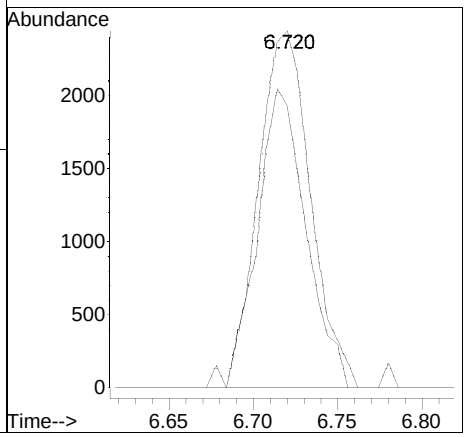


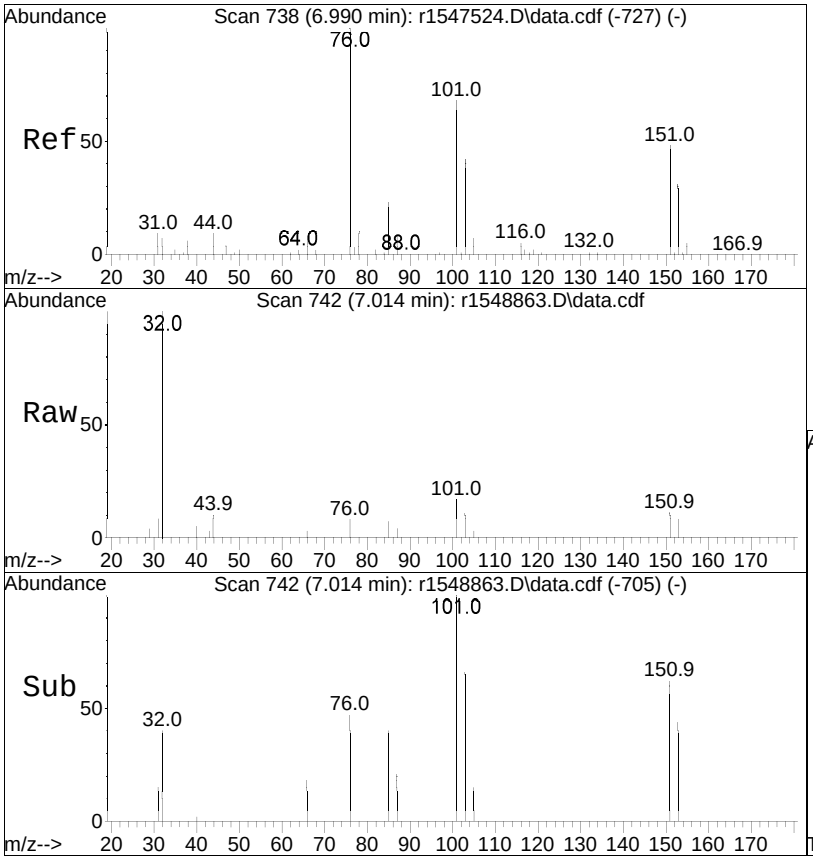


#28
methylene chloride
Concen: 0.24 ppbV
RT: 6.720 min Scan# 693
Delta R.T. 0.030 min
Lab File: r1548863.D
Acq: 19 Jun 2024 4:07 AM

Tgt Ion: 49 Resp: 5267

Ion	Ratio	Lower	Upper
49	100		
84	78.9	63.4	95.2

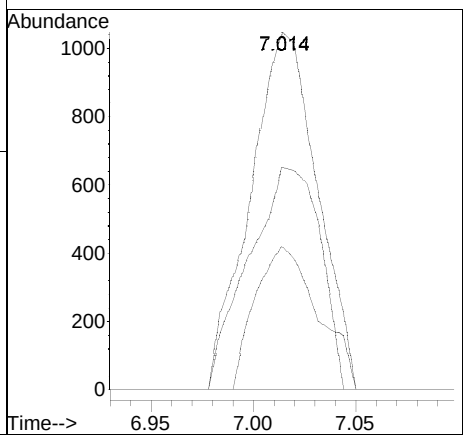


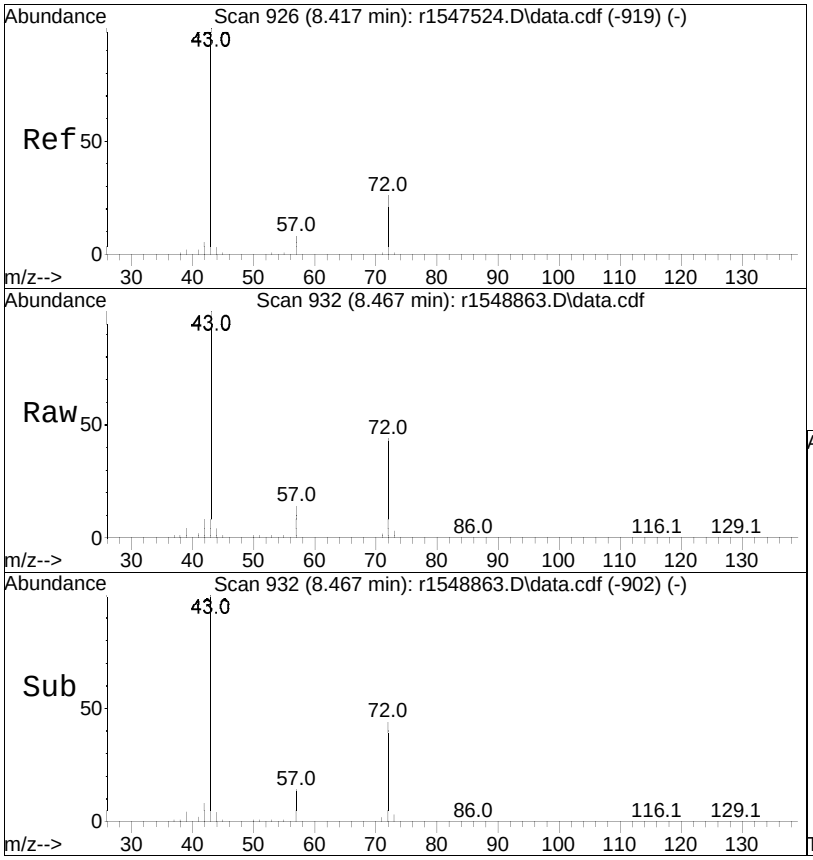


#31
Freon 113
Concen: 0.06 ppbV
RT: 7.014 min Scan# 742
Delta R.T. 0.024 min
Lab File: r1548863.D
Acq: 19 Jun 2024 4:07 AM

Tgt Ion:101 Resp: 2385

Ion	Ratio	Lower	Upper
101	100		
85	40.3	27.6	41.4
151	62.3	56.9	85.3

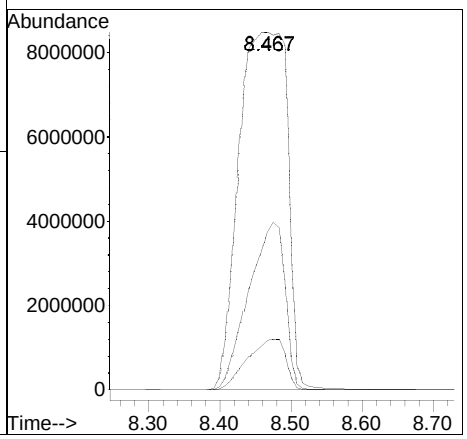


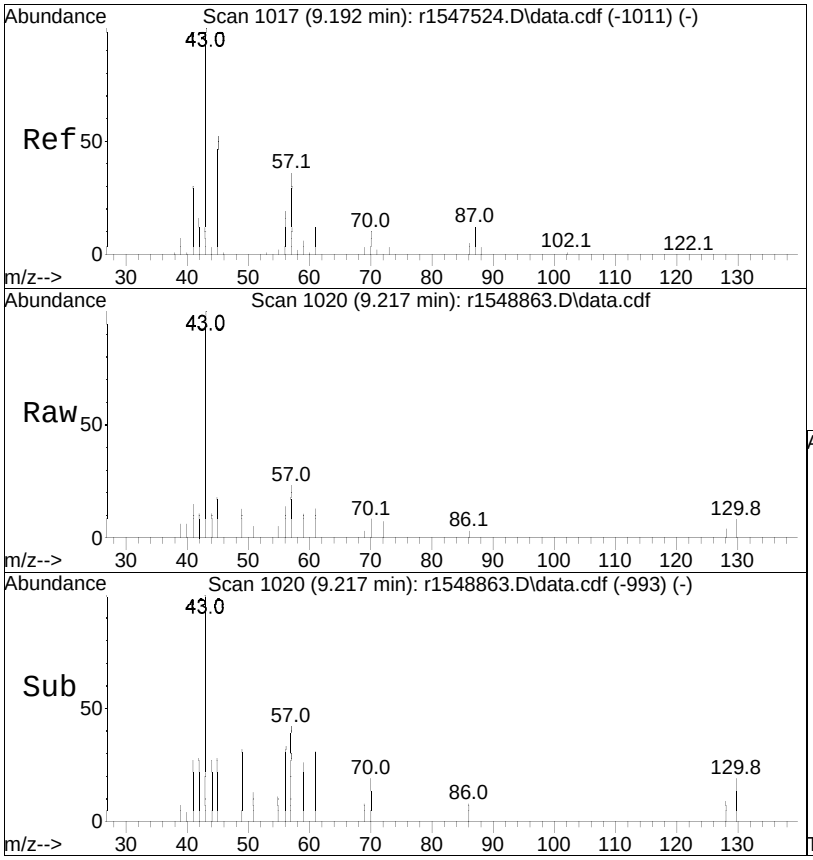


#36
2-butanone
Concen: 893.14 ppbV
RT: 8.467 min Scan# 932
Delta R.T. 0.050 min
Lab File: r1548863.D
Acq: 19 Jun 2024 4:07 AM

Tgt Ion: 43 Resp:39674396

Ion	Ratio	Lower	Upper
43	100		
72	44.1	20.9	31.3#
57	13.7	6.6	10.0#

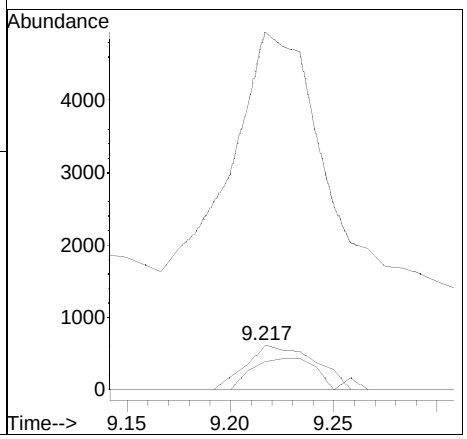


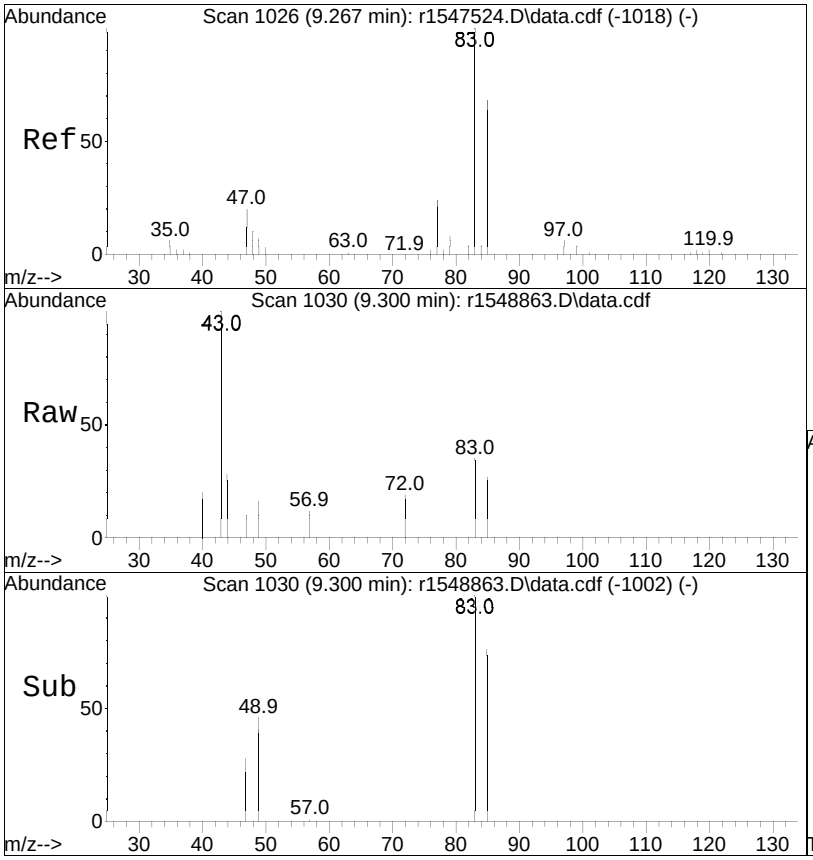


#38
Ethyl Acetate
Concen: 0.17 ppbV
RT: 9.217 min Scan# 1020
Delta R.T. 0.025 min
Lab File: r1548863.D
Acq: 19 Jun 2024 4:07 AM

Tgt Ion: 61 Resp: 1443

Ion	Ratio	Lower	Upper
61	100		
70	62.3	67.9	101.9#
43	798.5	703.5	1055.3

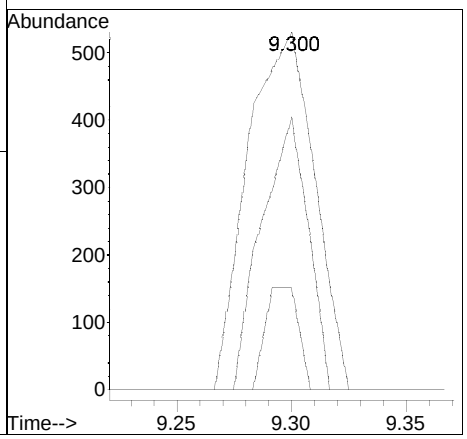


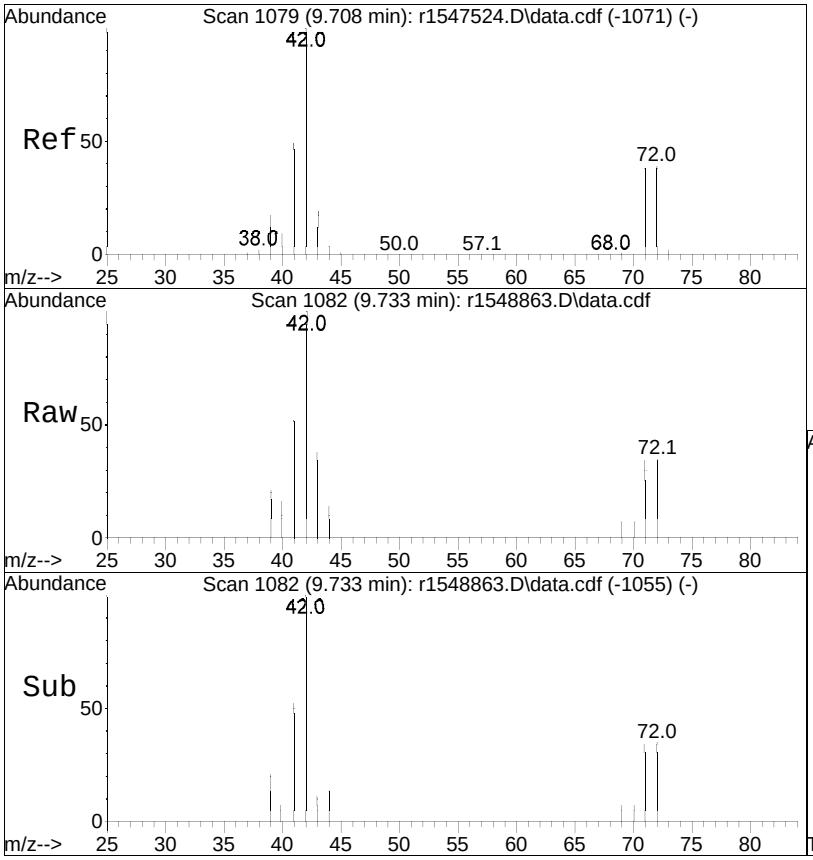


#39
chloroform
Concen: 0.03 ppbV
RT: 9.300 min Scan# 1030
Delta R.T. 0.033 min
Lab File: r1548863.D
Acq: 19 Jun 2024 4:07 AM

Tgt Ion: 83 Resp: 1066

Ion	Ratio	Lower	Upper
83	100		
85	76.2	54.3	81.5
47	28.5	16.4	24.6#

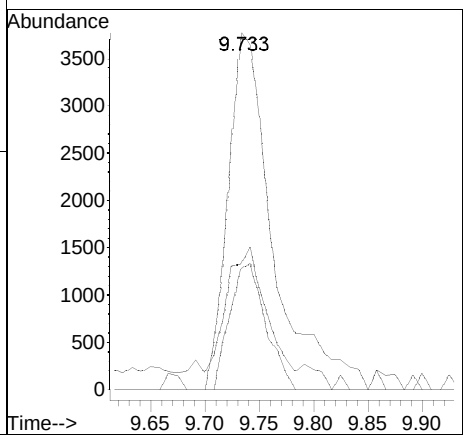


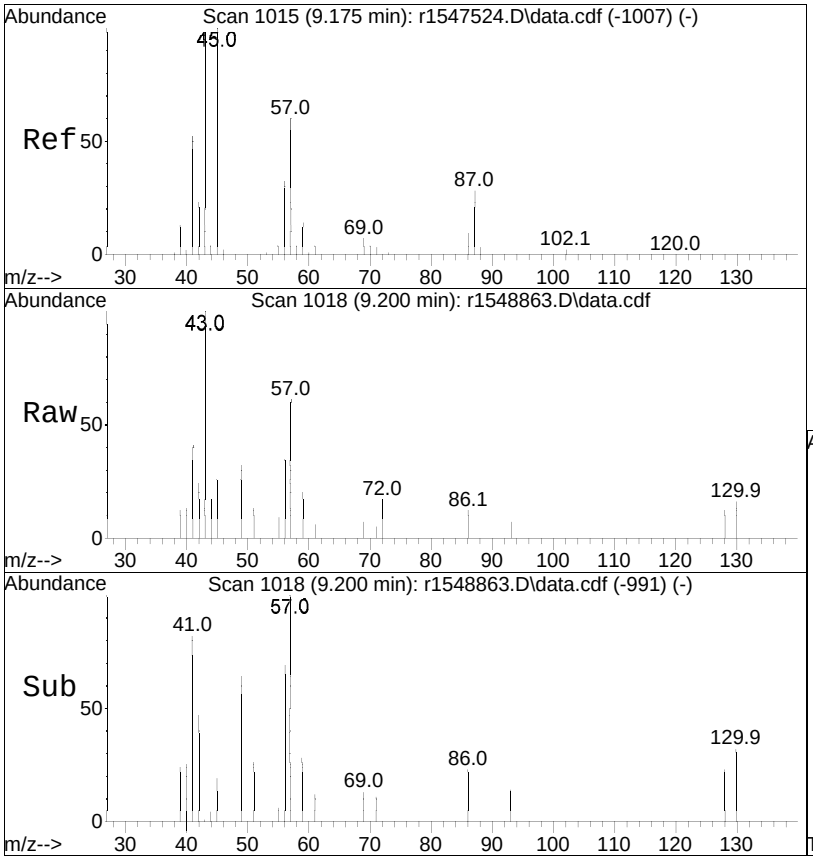


#40
Tetrahydrofuran
Concen: 0.39 ppbV
RT: 9.733 min Scan# 1082
Delta R.T. 0.025 min
Lab File: r1548863.D
Acq: 19 Jun 2024 4:07 AM

Tgt Ion: 42 Resp: 10824

Ion	Ratio	Lower	Upper
42	100		
71	33.6	30.1	45.1
72	35.2	31.4	47.2

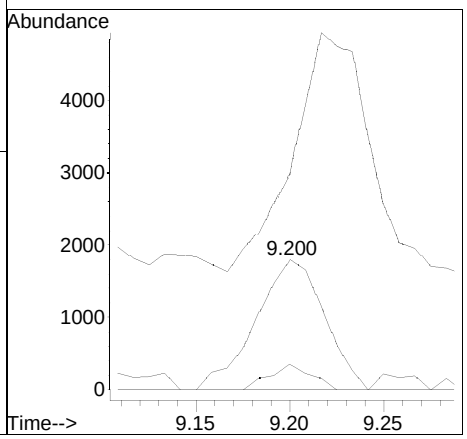


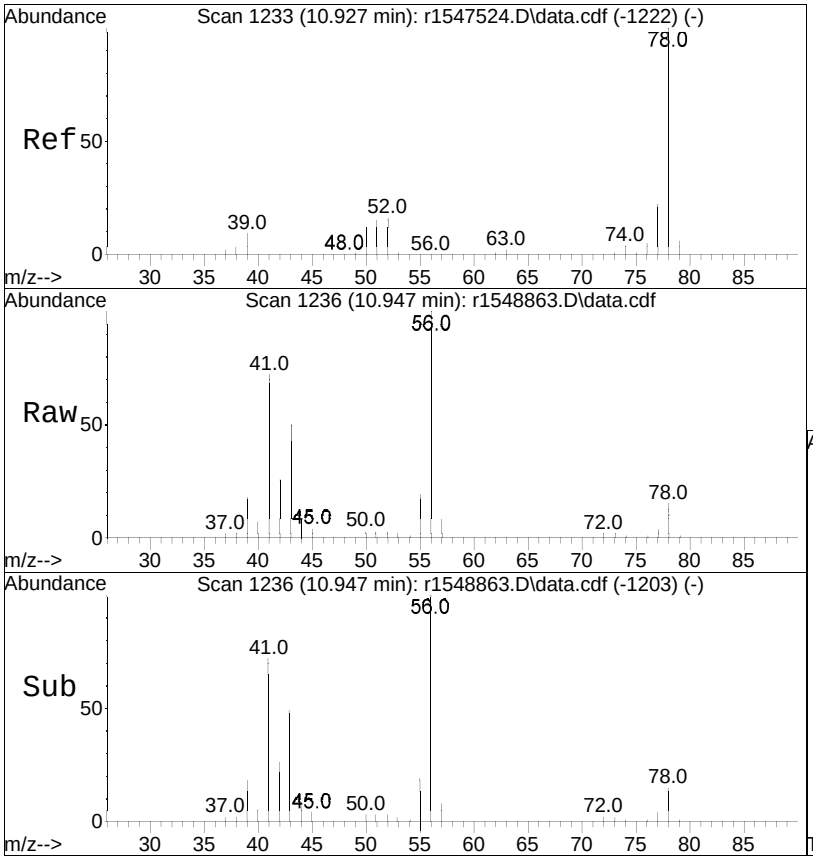


#44
hexane
Concen: 0.13 ppbV
RT: 9.200 min Scan# 1018
Delta R.T. 0.025 min
Lab File: r1548863.D
Acq: 19 Jun 2024 4:07 AM

Tgt Ion: 57 Resp: 4573

Ion	Ratio	Lower	Upper
57	100		
43	165.3	124.6	186.8
86	19.6	11.5	17.3#

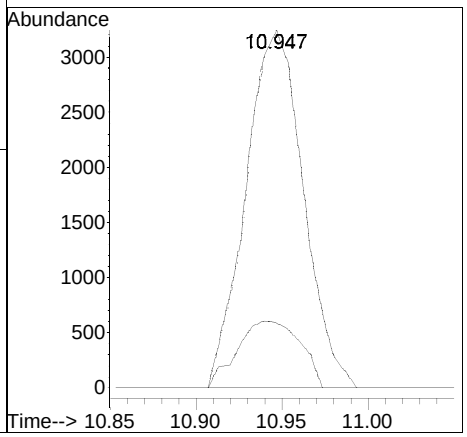


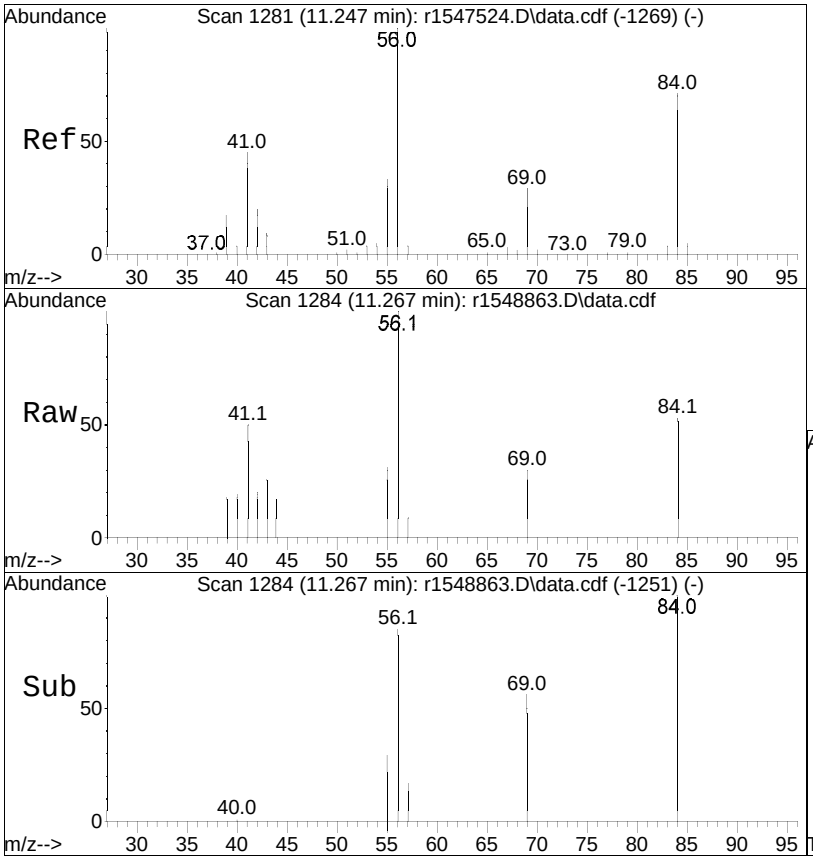


#50
benzene
Concen: 0.12 ppbV
RT: 10.947 min Scan# 1236
Delta R.T. 0.020 min
Lab File: r1548863.D
Acq: 19 Jun 2024 4:07 AM

Tgt Ion: 78 Resp: 7494

Ion	Ratio	Lower	Upper
78	100		
52	18.1	13.0	19.4

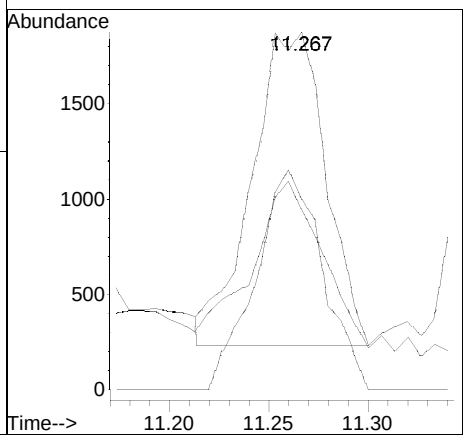


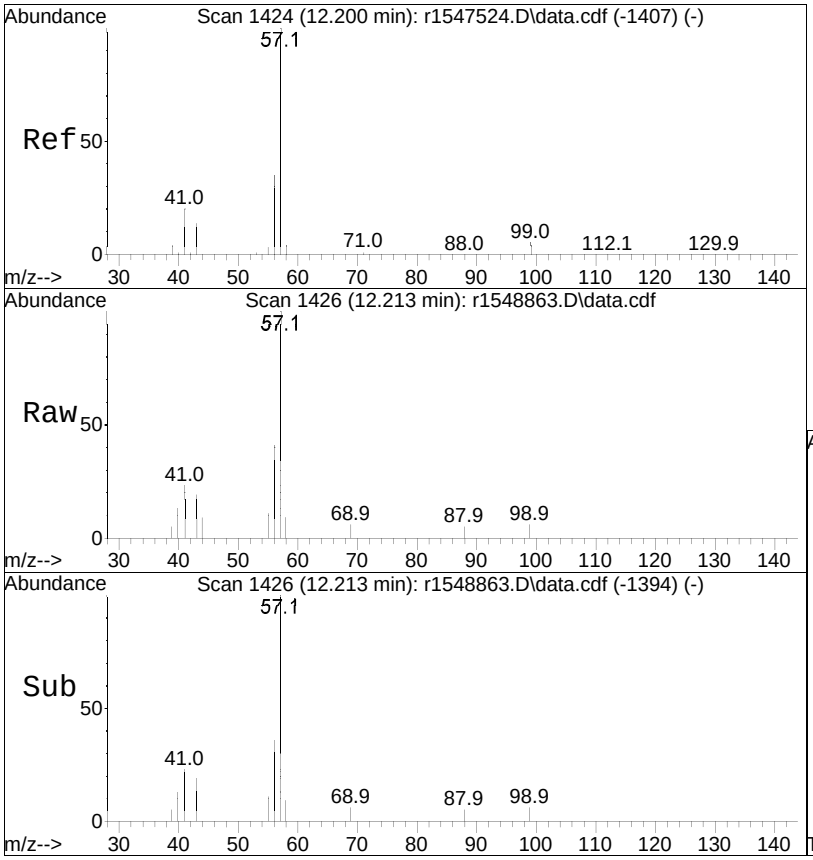


#53
cyclohexane
Concen: 0.12 ppbV
RT: 11.267 min Scan# 1284
Delta R.T. 0.020 min
Lab File: r1548863.D
Acq: 19 Jun 2024 4:07 AM

Tgt Ion: 56 Resp: 4224

Ion	Ratio	Lower	Upper
56	100		
84	53.5	57.2	85.8#
41	50.5	35.9	53.9

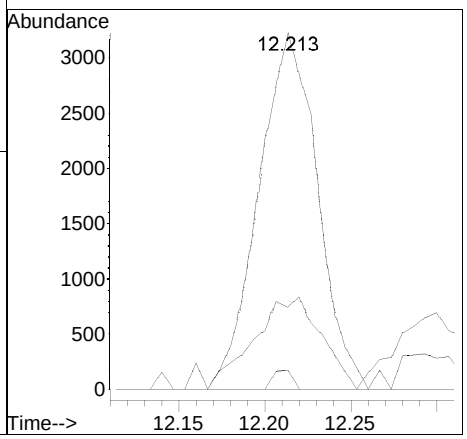


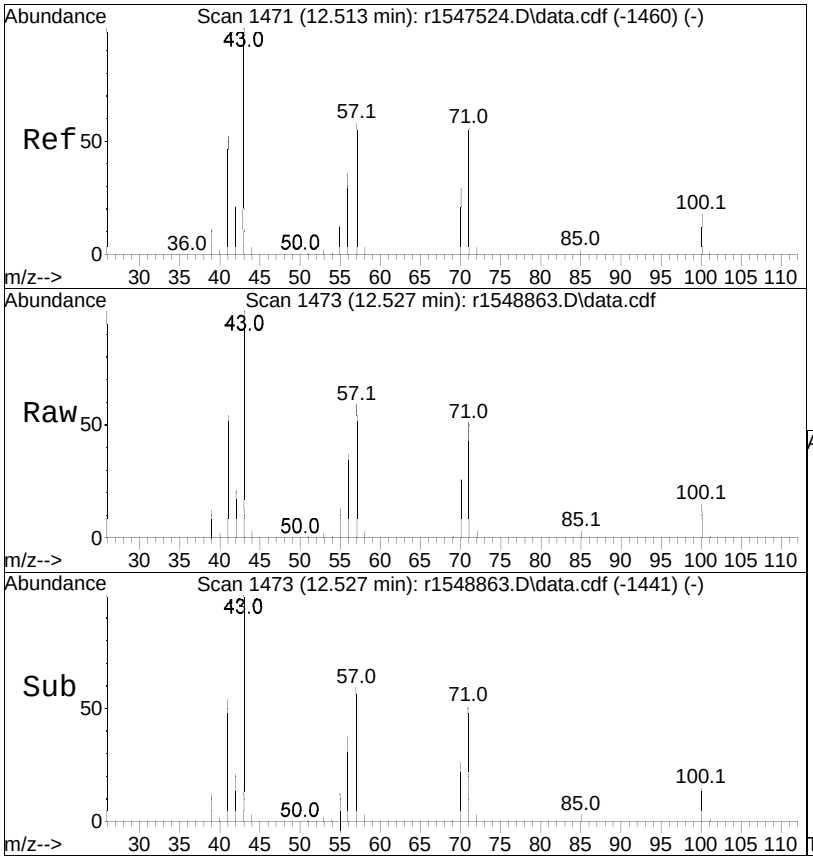


#60
2,2,4-trimethylpentane
Concen: 0.07 ppbV
RT: 12.213 min Scan# 1426
Delta R.T. 0.013 min
Lab File: r1548863.D
Acq: 19 Jun 2024 4:07 AM

Tgt Ion: 57 Resp: 7626

Ion	Ratio	Lower	Upper
57	100		
99	5.5	4.0	6.0
41	23.3	16.1	24.1

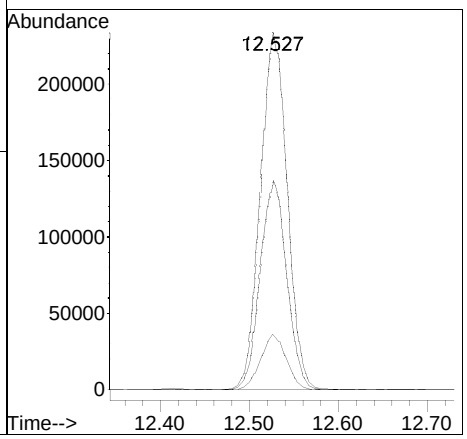


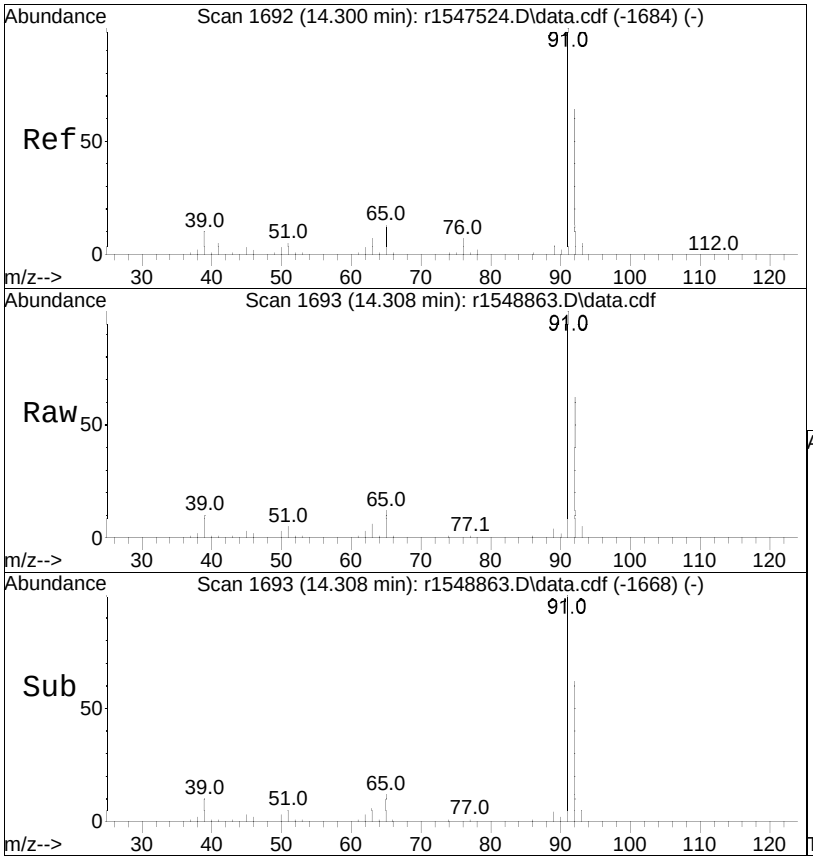


#62
heptane
Concen: 12.73 ppbV
RT: 12.527 min Scan# 1473
Delta R.T. 0.013 min
Lab File: r1548863.D
Acq: 19 Jun 2024 4:07 AM

Tgt Ion: 43 Resp: 483741

Ion	Ratio	Lower	Upper
43	100		
57	58.7	46.6	70.0
100	15.4	14.6	22.0

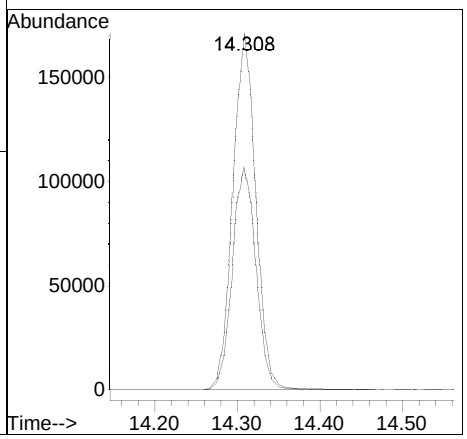


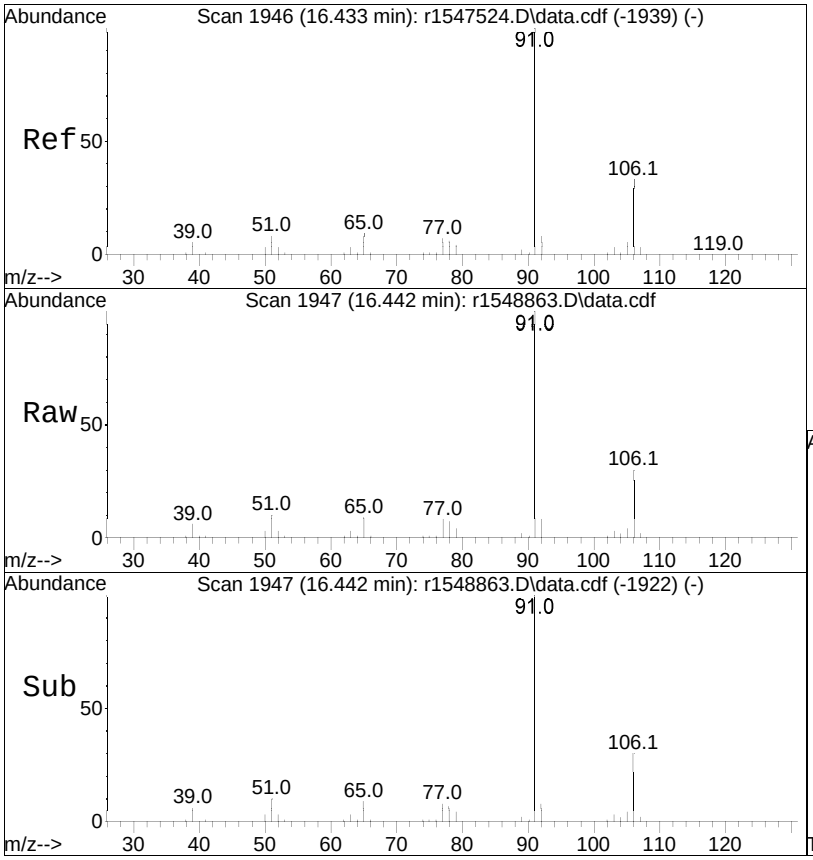


#68
toluene
Concen: 3.57 ppbV
RT: 14.308 min Scan# 1693
Delta R.T. 0.008 min
Lab File: r1548863.D
Acq: 19 Jun 2024 4:07 AM

Tgt Ion: 91 Resp: 331124

Ion	Ratio	Lower	Upper
91	100		
92	62.4	51.6	77.4

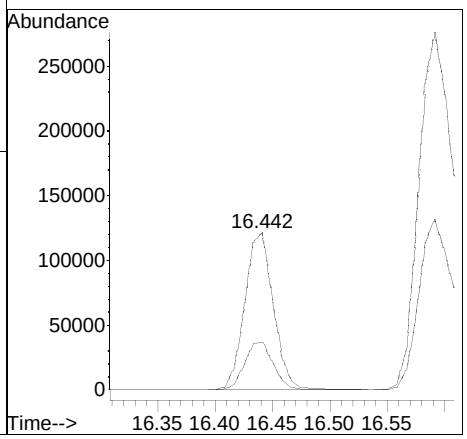


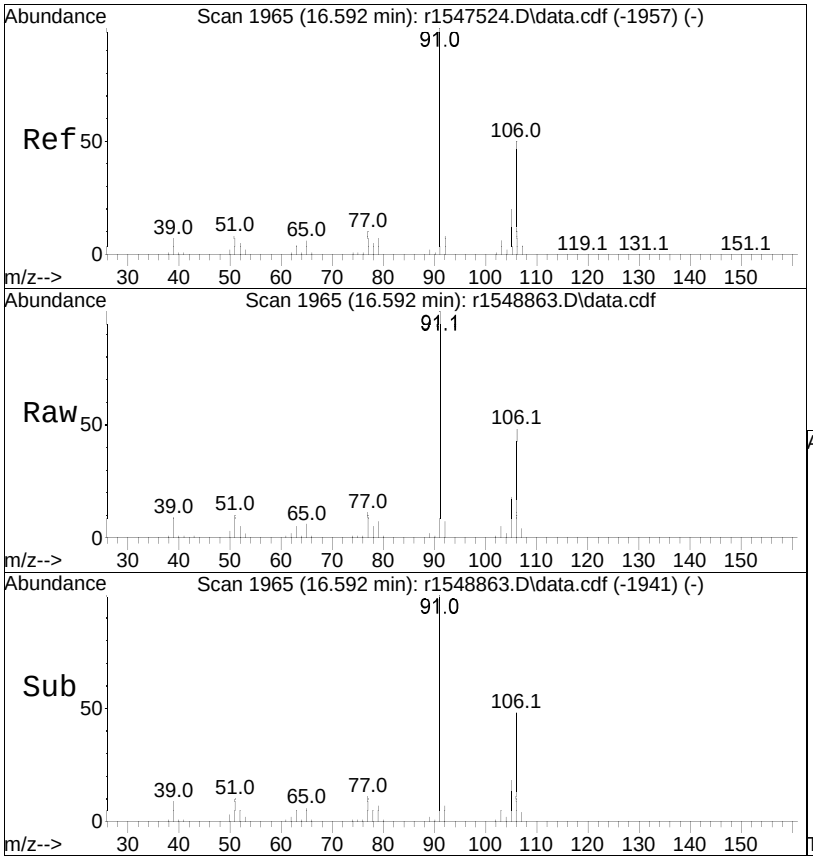


#81
ethylbenzene
Concen: 1.78 ppbV
RT: 16.442 min Scan# 1947
Delta R.T. 0.008 min
Lab File: r1548863.D
Acq: 19 Jun 2024 4:07 AM

Tgt Ion: 91 Resp: 211727

Ion	Ratio	Lower	Upper
91	100		
106	30.1	26.1	39.1

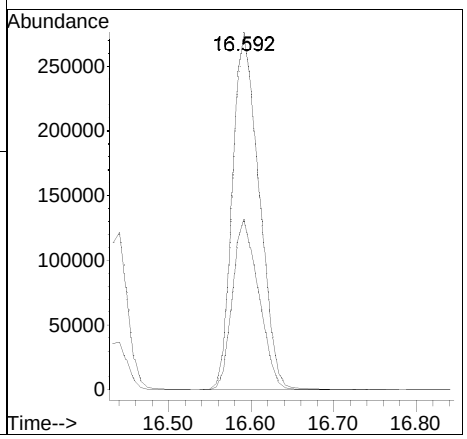


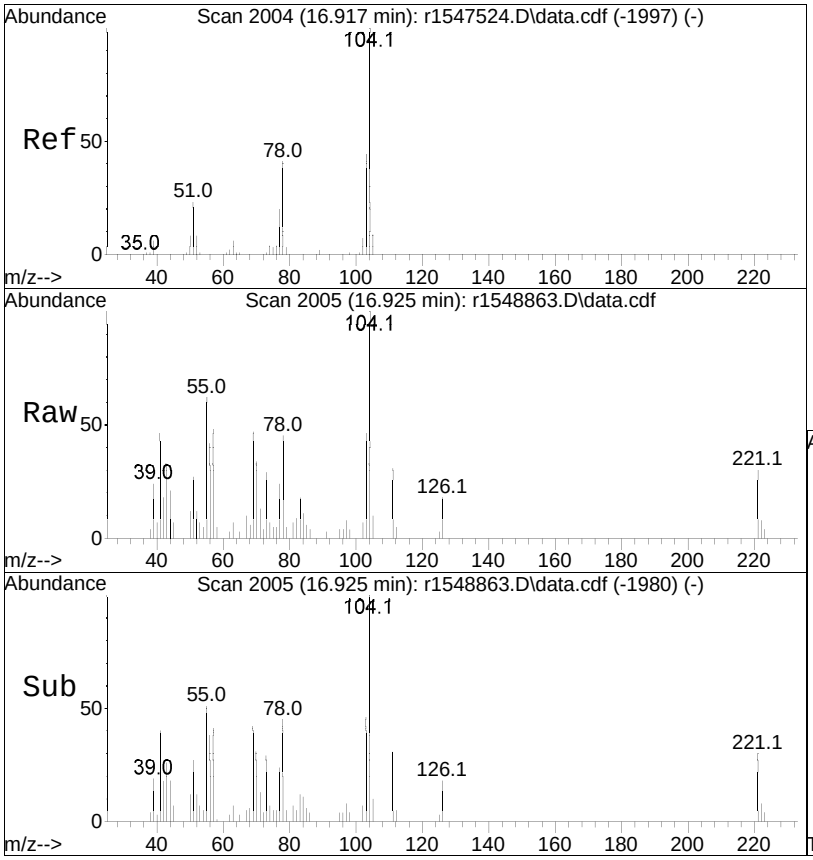


#83
m+p-xylene
Concen: 6.62 ppbV
RT: 16.592 min Scan# 1965
Delta R.T. 0.000 min
Lab File: r1548863.D
Acq: 19 Jun 2024 4:07 AM

Tgt Ion: 91 Resp: 615282

Ion	Ratio	Lower	Upper
91	100		
106	47.7	40.1	60.1

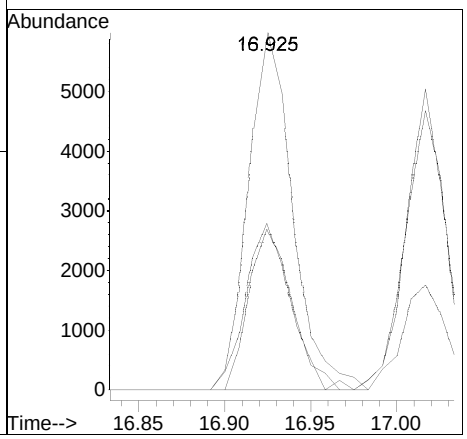


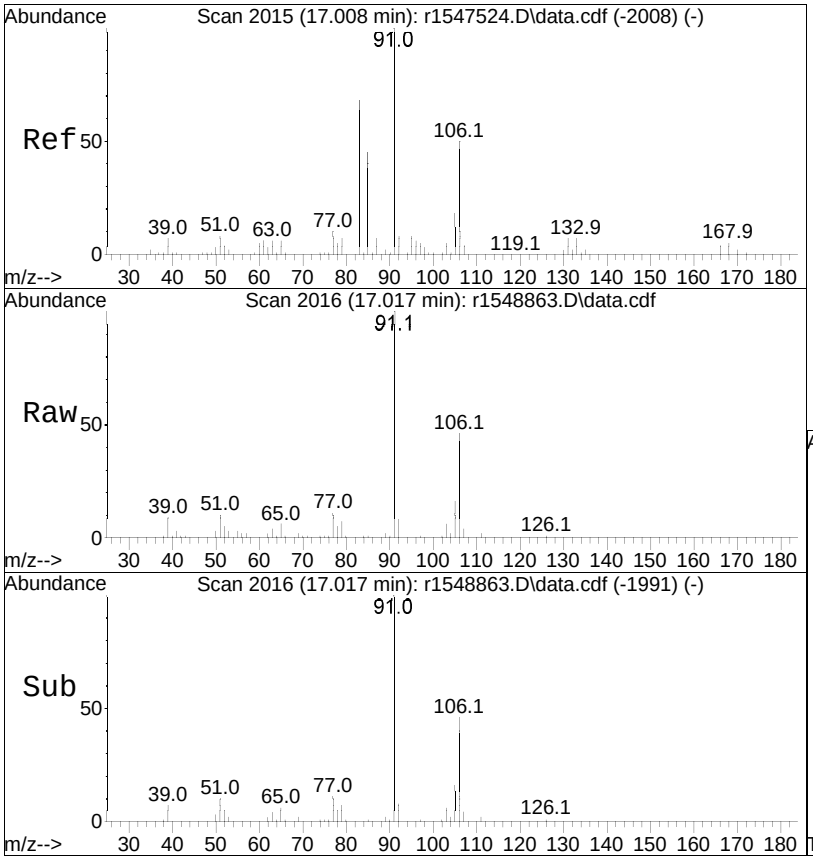


#85
styrene
Concen: 0.15 ppbV
RT: 16.925 min Scan# 2005
Delta R.T. 0.008 min
Lab File: r1548863.D
Acq: 19 Jun 2024 4:07 AM

Tgt Ion:104 Resp: 10796

Ion	Ratio	Lower	Upper
104	100		
103	46.4	35.2	52.8
78	44.9	32.6	48.8

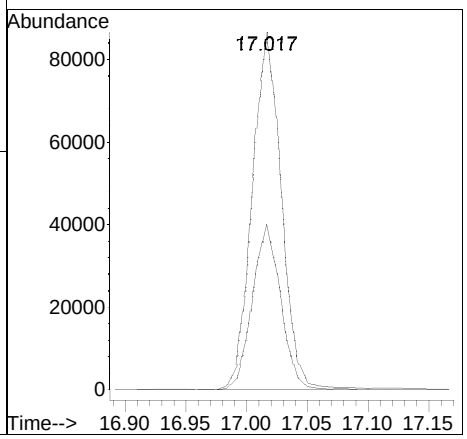


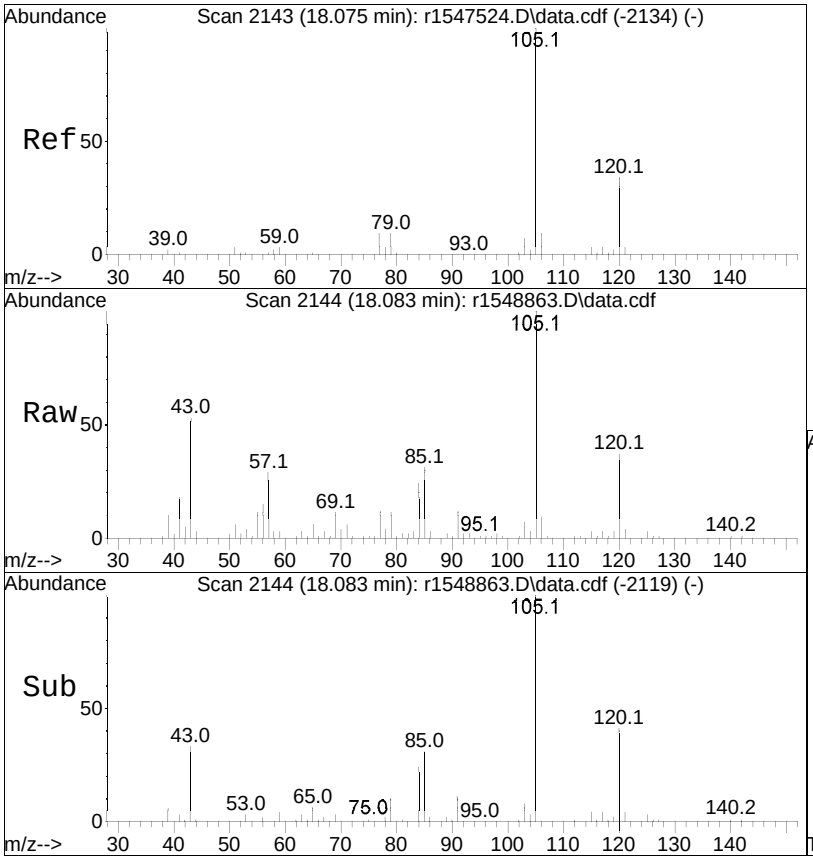


#87
o-xylene
Concen: 1.54 ppbV
RT: 17.017 min Scan# 2016
Delta R.T. 0.008 min
Lab File: r1548863.D
Acq: 19 Jun 2024 4:07 AM

Tgt Ion: 91 Resp: 142835

Ion	Ratio	Lower	Upper
91	100		
106	46.2	39.6	59.4

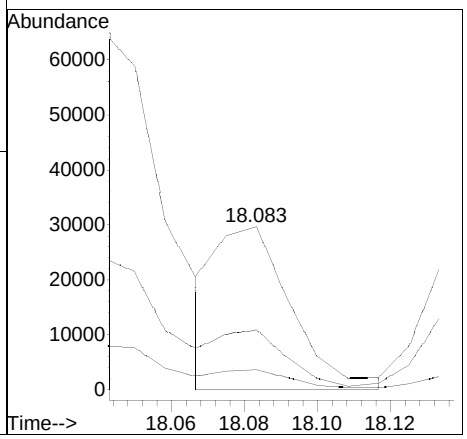


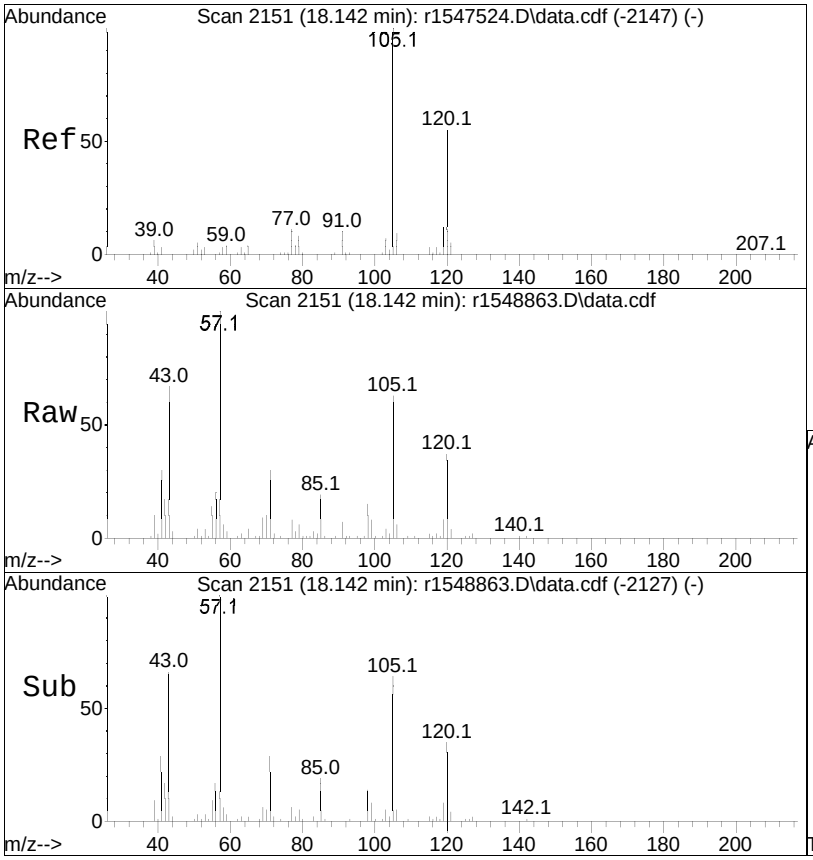


#96
4-ethyl toluene
Concen: 0.35 ppbV m
RT: 18.083 min Scan# 2144
Delta R.T. 0.008 min
Lab File: r1548863.D
Acq: 19 Jun 2024 4:07 AM

Tgt Ion:105 Resp: 42309

Ion	Ratio	Lower	Upper
105	100		
120	36.9	27.2	40.8
91	12.3	7.9	11.9#

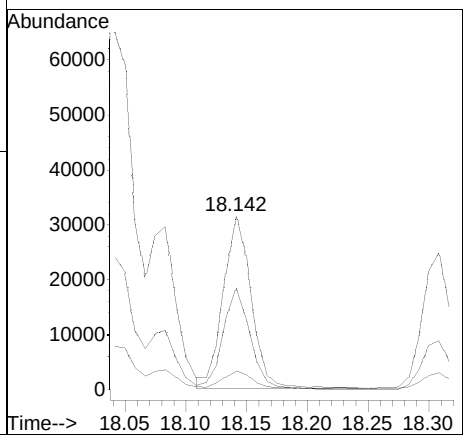


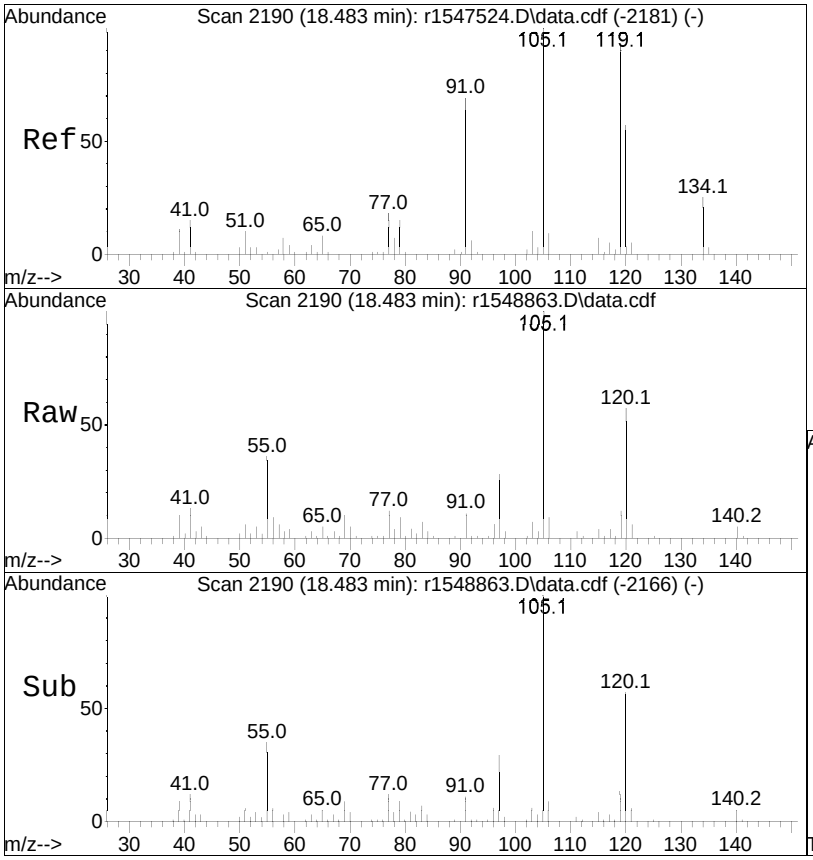


#97
1,3,5-trimethylbenzene
Concen: 0.48 ppbV
RT: 18.142 min Scan# 2151
Delta R.T. 0.000 min
Lab File: r1548863.D
Acq: 19 Jun 2024 4:07 AM

Tgt Ion:105 Resp: 57315

Ion	Ratio	Lower	Upper
105	100		
120	58.3	44.2	66.2
91	10.9	8.0	12.0

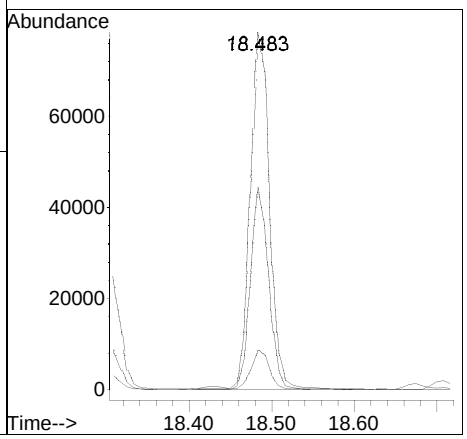


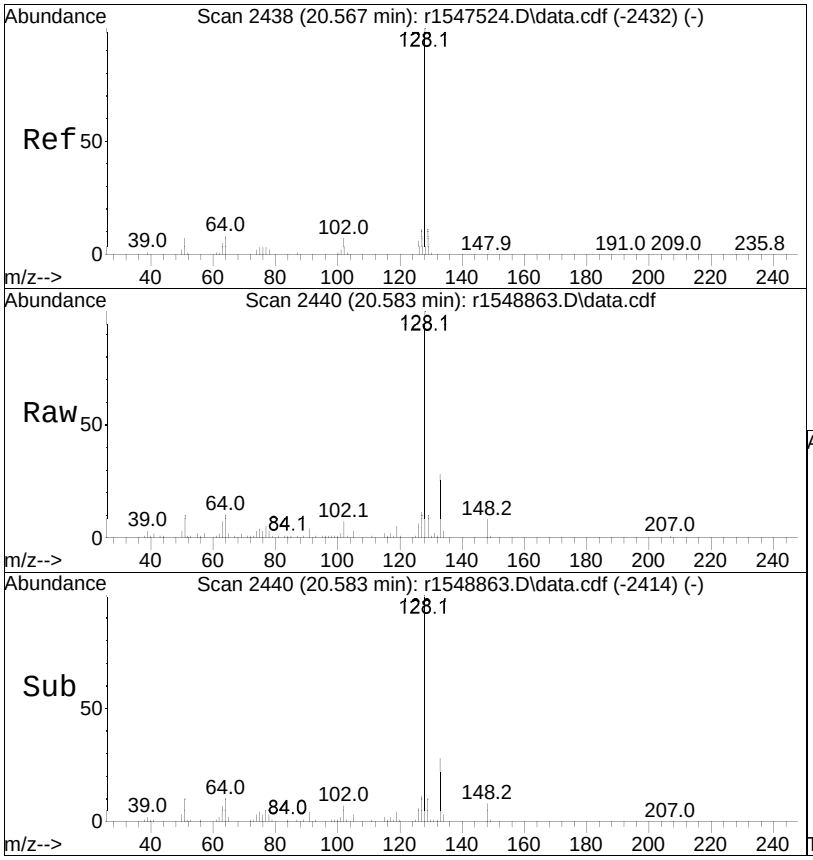


#99
1,2,4-trimethylbenzene
Concen: 1.24 ppbV
RT: 18.483 min Scan# 2190
Delta R.T. 0.000 min
Lab File: r1548863.D
Acq: 19 Jun 2024 4:07 AM

Tgt Ion:105 Resp: 124866

Ion	Ratio	Lower	Upper
105	100		
120	56.8	45.4	68.2
91	11.1	55.0	82.6#

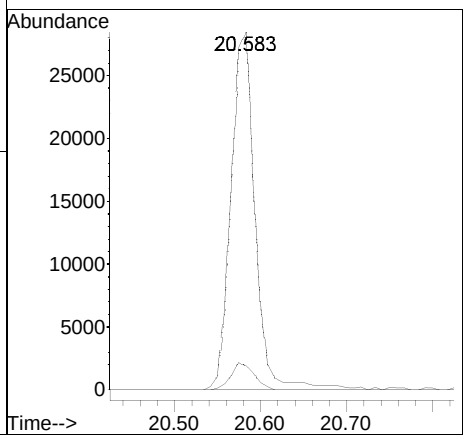




#116
naphthalene
Concen: 0.41 ppbV
RT: 20.583 min Scan# 2440
Delta R.T. 0.017 min
Lab File: r1548863.D
Acq: 19 Jun 2024 4:07 AM

Tgt Ion:128 Resp: 54858

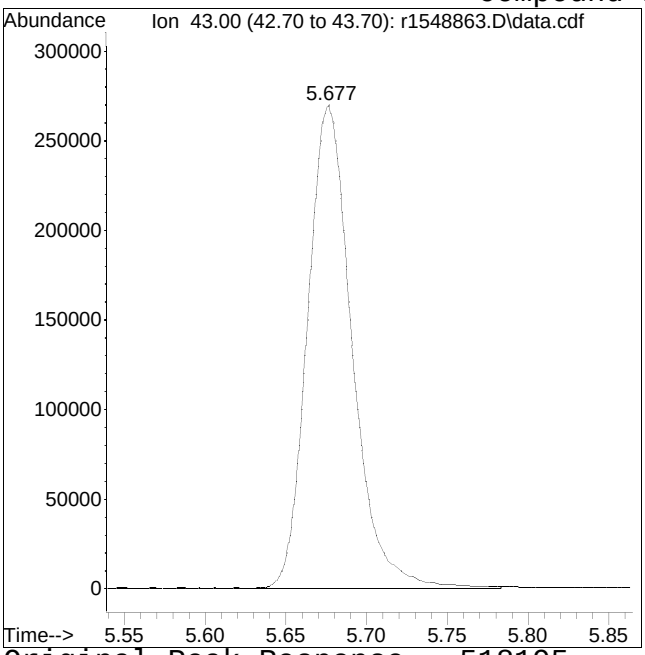
Ion	Ratio	Lower	Upper
128	100		
102	6.6	5.4	8.0



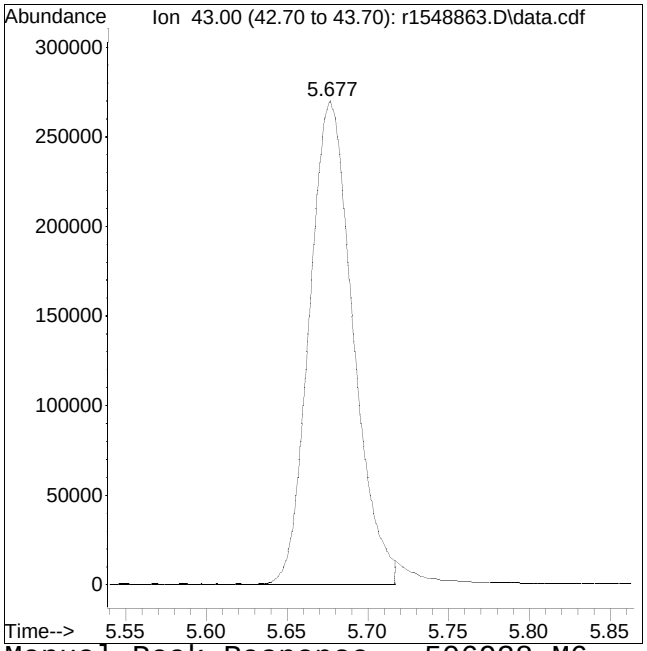
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1548863.D Operator : AIRLAB15:JMB
Date Inj'd : 6/19/2020 0:4: 7 Instrument :
Sample : L2432670-02,3,250,250 Quant Date : 6/19/2024 7:13 am

Compound #19: acetone



Original Peak Response = 518195



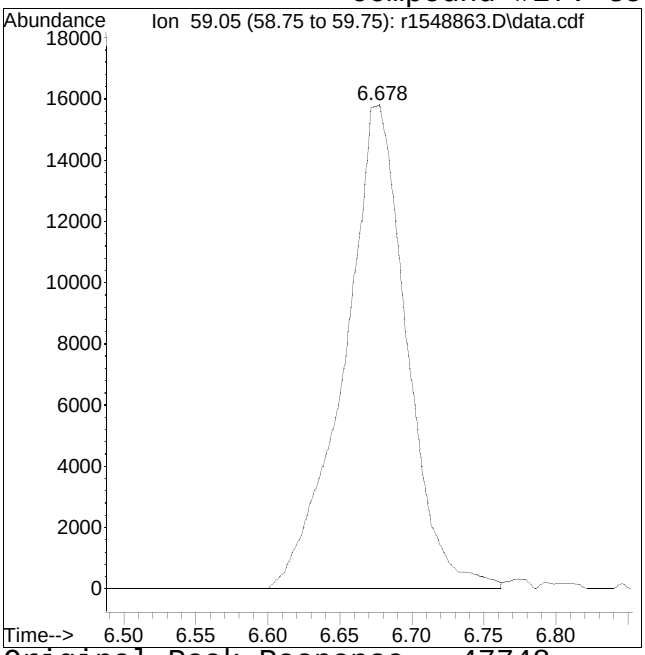
Manual Peak Response = 506938 M6

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

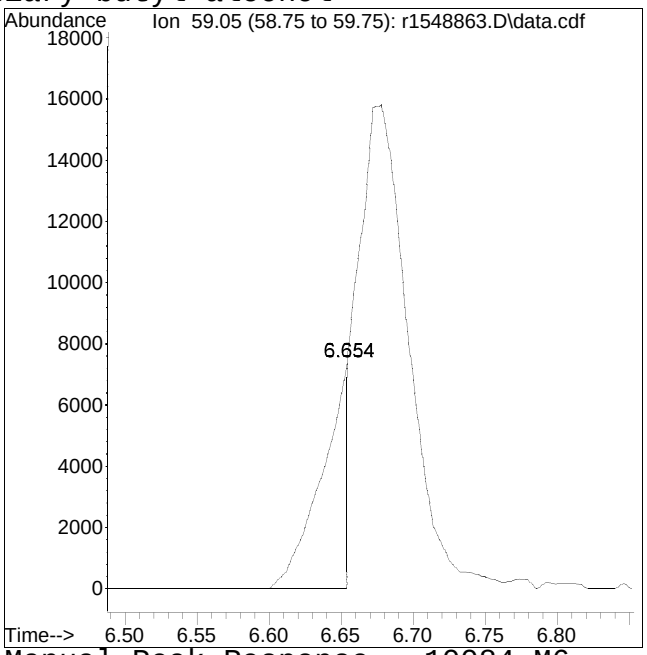
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1548863.D Operator : AIRLAB15:JMB
Date Inj'd : 6/19/2020 0:4: 7 Instrument :
Sample : L2432670-02,3,250,250 Quant Date : 6/19/2024 7:13 am

Compound #27: tertiary butyl alcohol



Original Peak Response = 47748



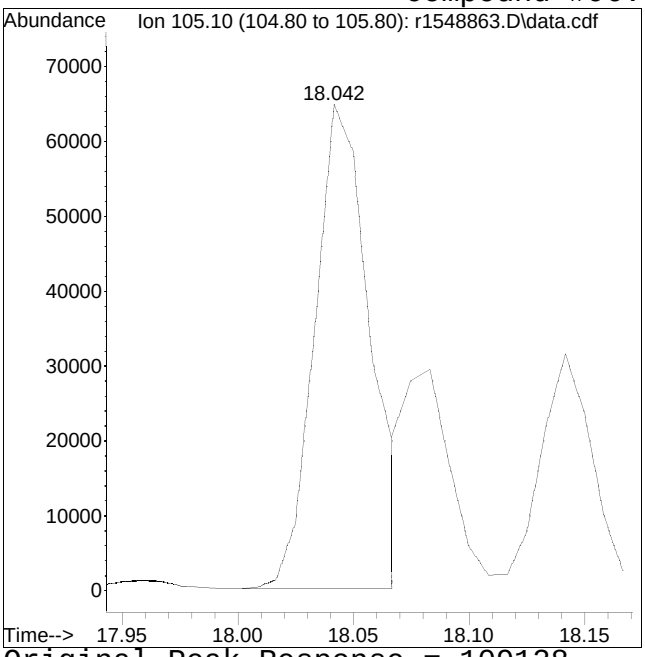
Manual Peak Response = 10084 M6

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

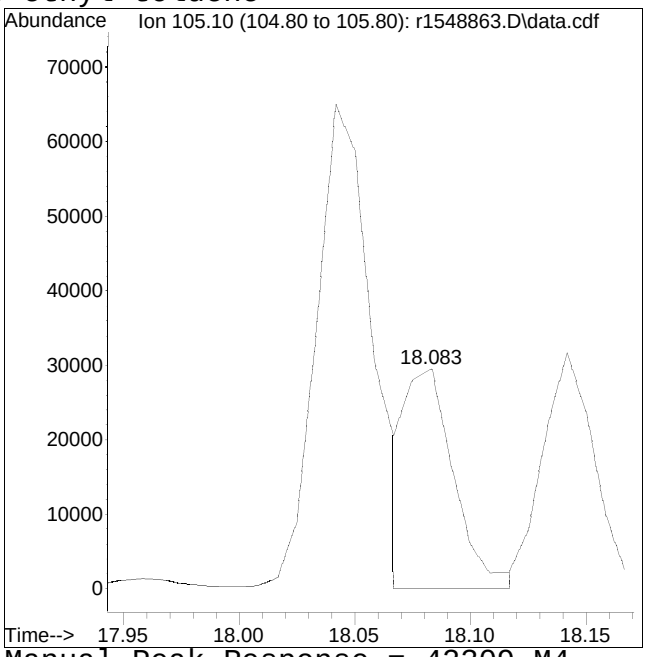
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1548863.D Operator : AIRLAB15:JMB
Date Inj'd : 6/19/2020 0:4: 7 Instrument :
Sample : L2432670-02,3,250,250 Quant Date : 6/19/2024 7:13 am

Compound #96: 4-ethyl toluene



Original Peak Response = 109128



Manual Peak Response = 42309 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0620T\
Data File : r1548906.D
Acq On : 20 Jun 2024 7:12 PM
Operator : AIRLAB15:TPH
Sample : L2432670-03D,3,50,250
Misc : WG1937252,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 21 06:36:38 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0620T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0620T\r1548900.D
Sub List : ETOH_ONLY - Sub List Unknown

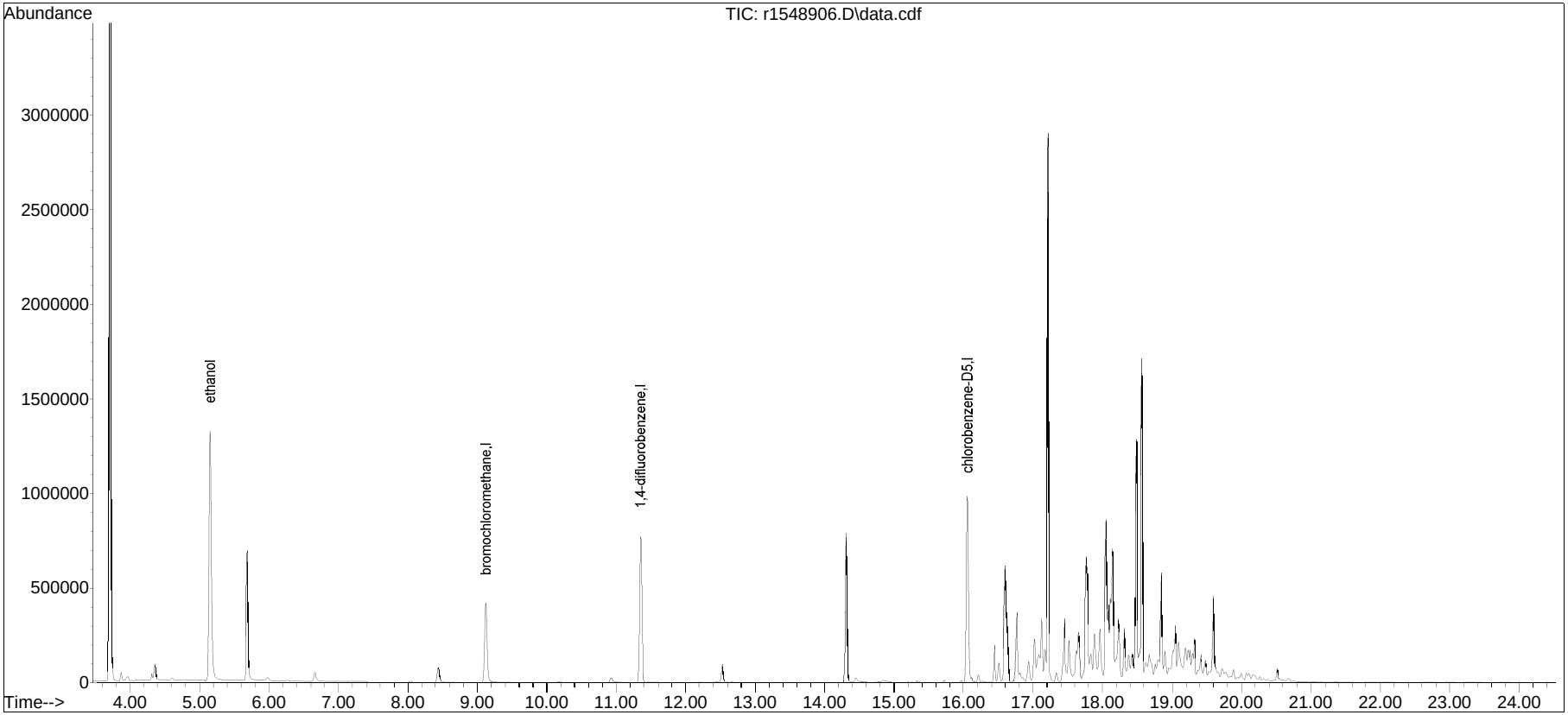
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.125	49	309318	10.000	ppbV	# 0.00
Standard Area = 349671			Recovery = 88.46%			
43) 1,4-difluorobenzene	11.353	114	761450	10.000	ppbV	0.00
Standard Area = 849696			Recovery = 89.61%			
67) chlorobenzene-D5	16.058	54	145188	10.000	ppbV	# 0.02
Standard Area = 163897			Recovery = 88.58%			
System Monitoring Compounds						
Target Compounds						Qvalue
15) ethanol	5.158	31	1367417	134.935	ppbV	# 81

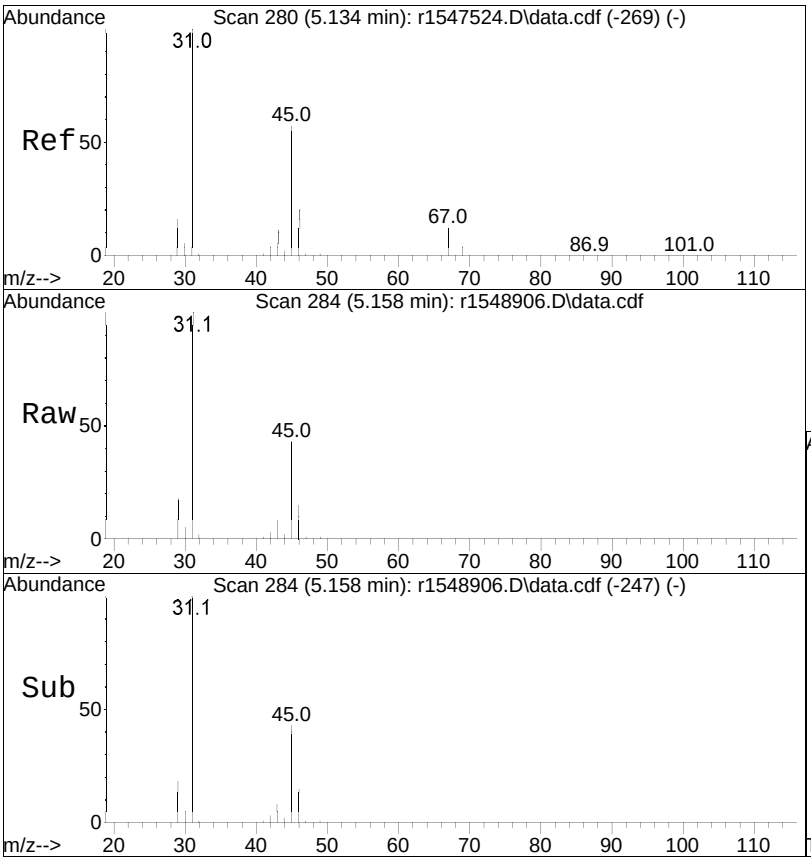
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : ETOH_ONLY - Sub List Unknown024\06\0620T\r1548900.D

Data Path : O:\Forensics\Data\Airlab15\2024\06\0620T\
Data File : r1548906.D
Acq On : 20 Jun 2024 7:12 PM
Operator : AIRLAB15:TPH
Sample : L2432670-03D,3,50,250
Misc : WG1937252,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 21 06:36:38 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0620T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

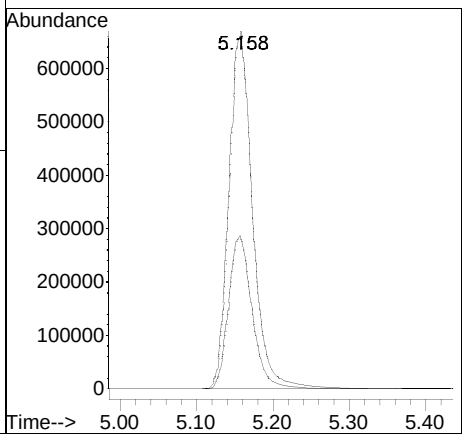




#15
ethanol
Concen: 134.94 ppbV
RT: 5.158 min Scan# 284
Delta R.T. 0.024 min
Lab File: r1548906.D
Acq: 20 Jun 2024 7:12 PM

Tgt Ion: 31 Resp: 1367417

Ion	Ratio	Lower	Upper
31	100		
45	43.0	45.7	68.5#



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab15	QMethod	: TFS15_240426.M
Data File	: r1548906.D	Operator	: AIRLAB15:TPH
Date Inj'd	: 6/20/2020 0:7: 2	Instrument	:
Sample	: L2432670-03D,3,50,250	Quant Date	: 6/21/2024 6:36 am

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0620T\
Data File : r1548907.D
Acq On : 20 Jun 2024 7:45 PM
Operator : AIRLAB15:TPH
Sample : L2432670-05D,3,50,250
Misc : WG1937252,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 21 06:38:02 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0620T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0620T\r1548900.D
Sub List : ACETONE - .

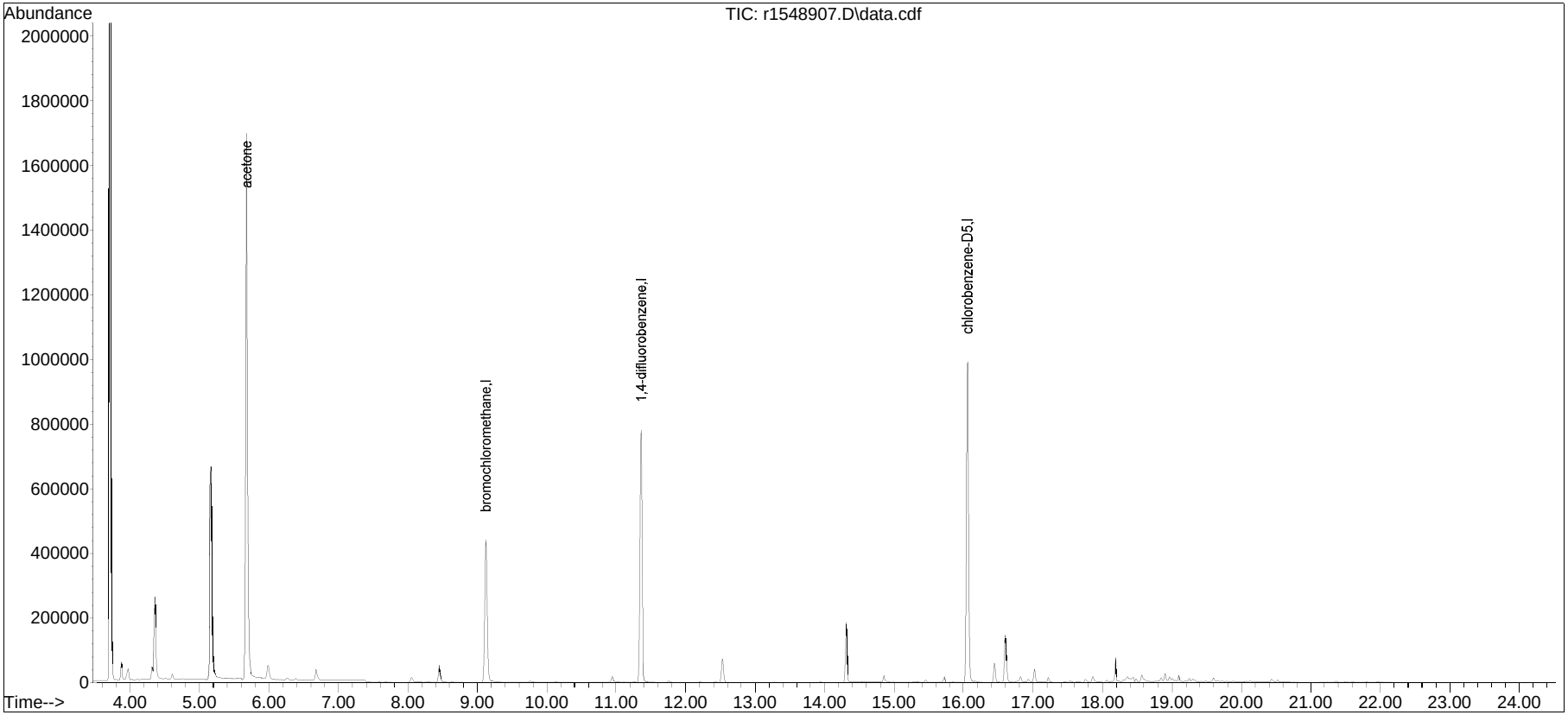
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.125	49	311838	10.000	ppbV	# 0.00
Standard Area = 349671			Recovery = 89.18%			
43) 1,4-difluorobenzene	11.360	114	754568	10.000	ppbV	0.01
Standard Area = 849696			Recovery = 88.80%			
67) chlorobenzene-D5	16.058	54	143788	10.000	ppbV	# 0.02
Standard Area = 163897			Recovery = 87.73%			
System Monitoring Compounds						
Target Compounds						Qvalue
19) acetone	5.677	43	2044184	99.205	ppbV	97

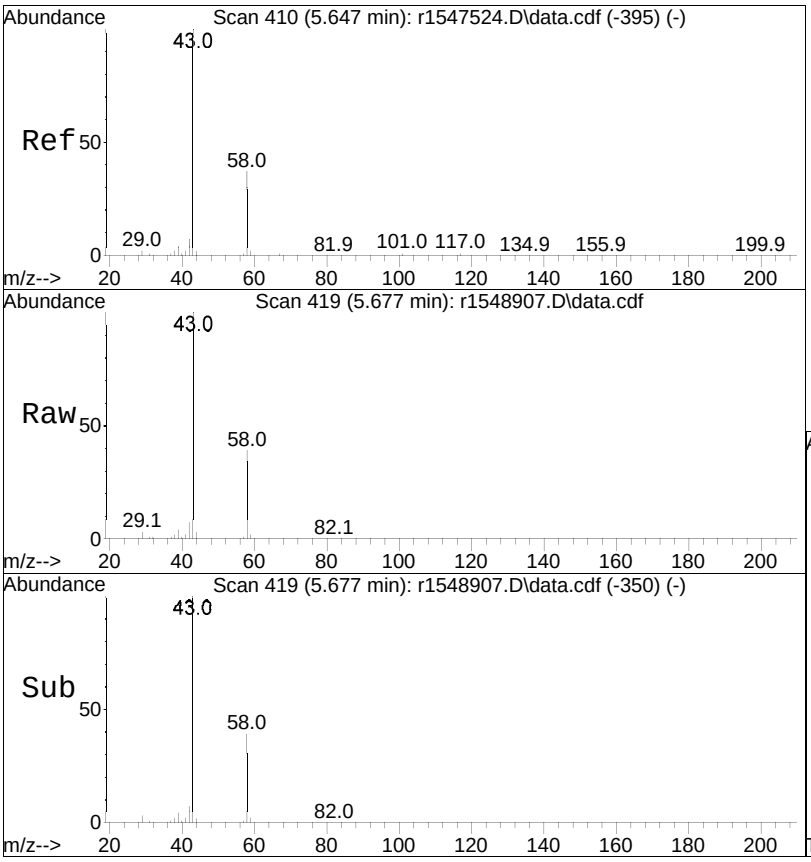
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : ACETONE - .s\Data\Airlab15\2024\06\0620T\r1548900.D

Data Path : O:\Forensics\Data\Airlab15\2024\06\0620T\
Data File : r1548907.D
Acq On : 20 Jun 2024 7:45 PM
Operator : AIRLAB15:TPH
Sample : L2432670-05D,3,50,250
Misc : WG1937252,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 21 06:38:02 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0620T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

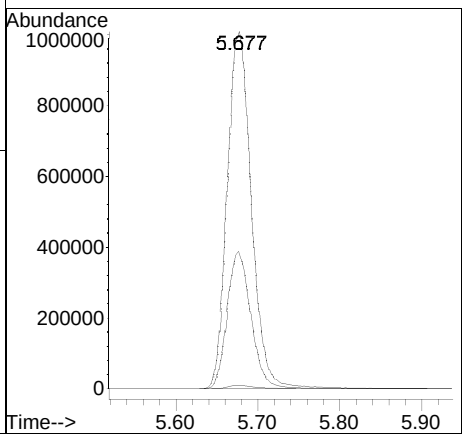




#19
acetone
Concen: 99.21 ppbV
RT: 5.677 min Scan# 419
Delta R.T. 0.030 min
Lab File: r1548907.D
Acq: 20 Jun 2024 7:45 PM

Tgt Ion: 43 Resp: 2044184

Ion	Ratio	Lower	Upper
43	100		
58	38.5	29.4	44.0
57	0.9	0.7	1.1



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab15	QMethod	: TFS15_240426.M
Data File	: r1548907.D	Operator	: AIRLAB15:TPH
Date Inj'd	: 6/20/2020 0:7: 5	Instrument	:
Sample	: L2432670-05D,3,50,250	Quant Date	: 6/21/2024 6:38 am

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0620T\
Data File : r1548908.D
Acq On : 20 Jun 2024 8:19 PM
Operator : AIRLAB15:TPH
Sample : L2432670-06D,3,50,250
Misc : WG1937252,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 21 06:38:38 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0620T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0620T\r1548900.D
Sub List : ACETONE - .

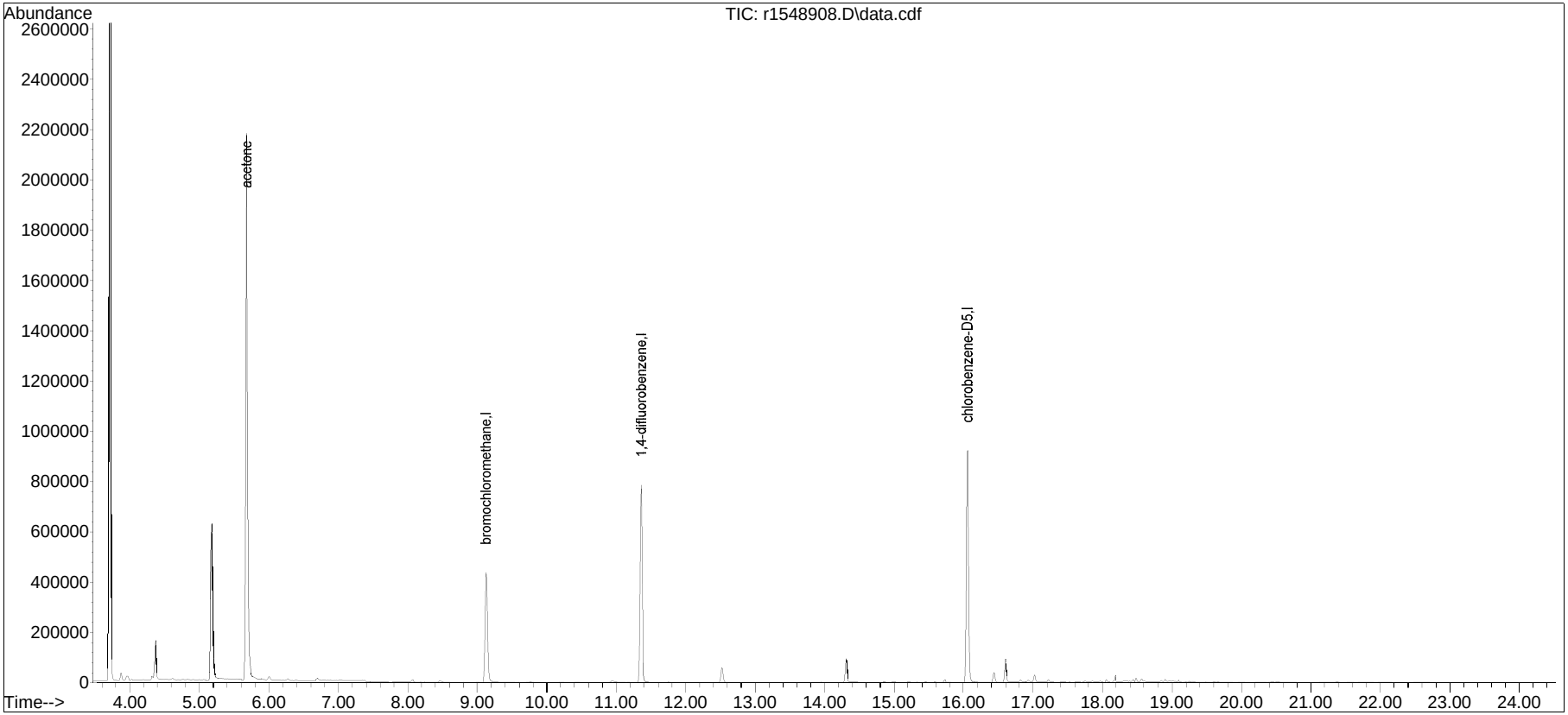
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.125	49	311437	10.000	ppbV	# 0.00
Standard Area = 349671			Recovery = 89.07%			
43) 1,4-difluorobenzene	11.360	114	739890	10.000	ppbV	0.01
Standard Area = 849696			Recovery = 87.08%			
67) chlorobenzene-D5	16.058	54	136454	10.000	ppbV	# 0.02
Standard Area = 163897			Recovery = 83.26%			
System Monitoring Compounds						
Target Compounds						Qvalue
19) acetone	5.677	43	2653396	128.936	ppbV	96

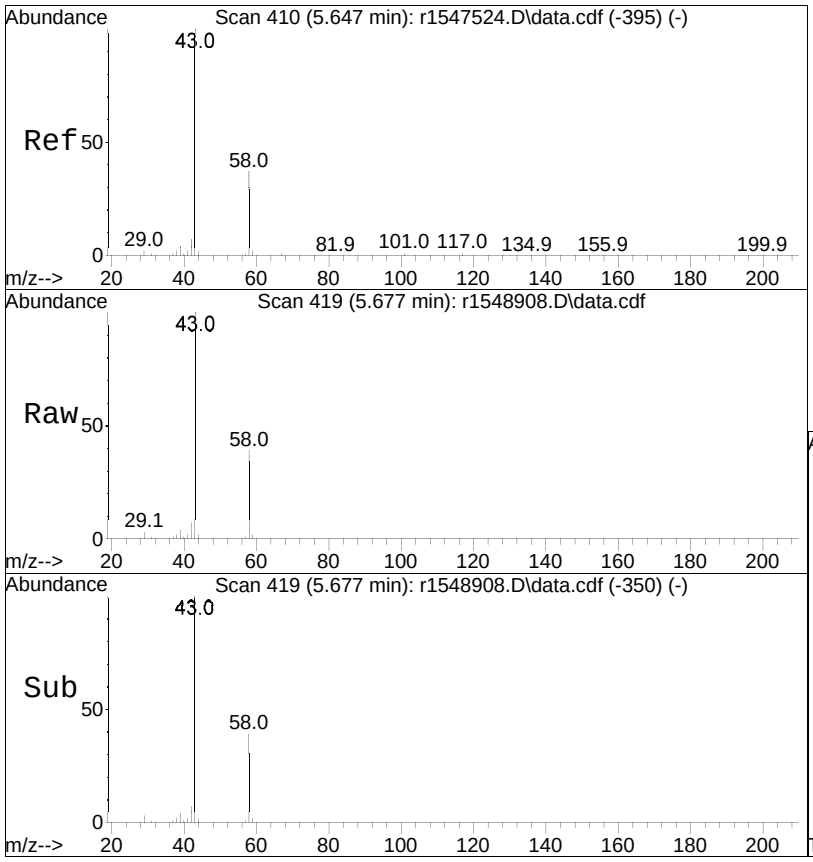
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : ACETONE - .s\Data\Airlab15\2024\06\0620T\r1548900.D

Data Path : O:\Forensics\Data\Airlab15\2024\06\0620T\
Data File : r1548908.D
Acq On : 20 Jun 2024 8:19 PM
Operator : AIRLAB15:TPH
Sample : L2432670-06D,3,50,250
Misc : WG1937252,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 21 06:38:38 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0620T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

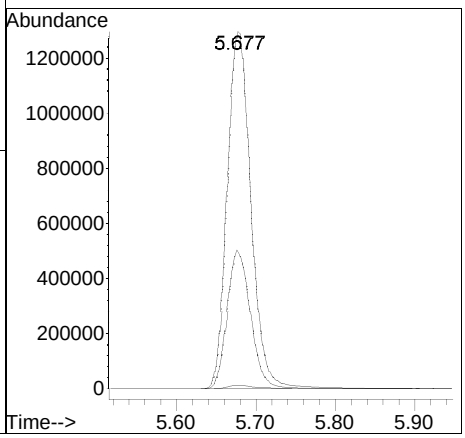




#19
acetone
Concen: 128.94 ppbV
RT: 5.677 min Scan# 419
Delta R.T. 0.030 min
Lab File: r1548908.D
Acq: 20 Jun 2024 8:19 PM

Tgt Ion: 43 Resp: 2653396

Ion	Ratio	Lower	Upper
43	100		
58	38.9	29.4	44.0
57	0.9	0.7	1.1



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab15	QMethod	: TFS15_240426.M
Data File	: r1548908.D	Operator	: AIRLAB15:TPH
Date Inj'd	: 6/20/2020 0:8: 9	Instrument	:
Sample	: L2432670-06D,3,50,250	Quant Date	: 6/21/2024 6:38 am

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0620T\
Data File : r1548909.D
Acq On : 20 Jun 2024 8:53 PM
Operator : AIRLAB15:TPH
Sample : L2432670-07D,3,50,250
Misc : WG1937252,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 21 06:38:59 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0620T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0620T\r1548900.D
Sub List : ETOH_ONLY - Sub List Unknown

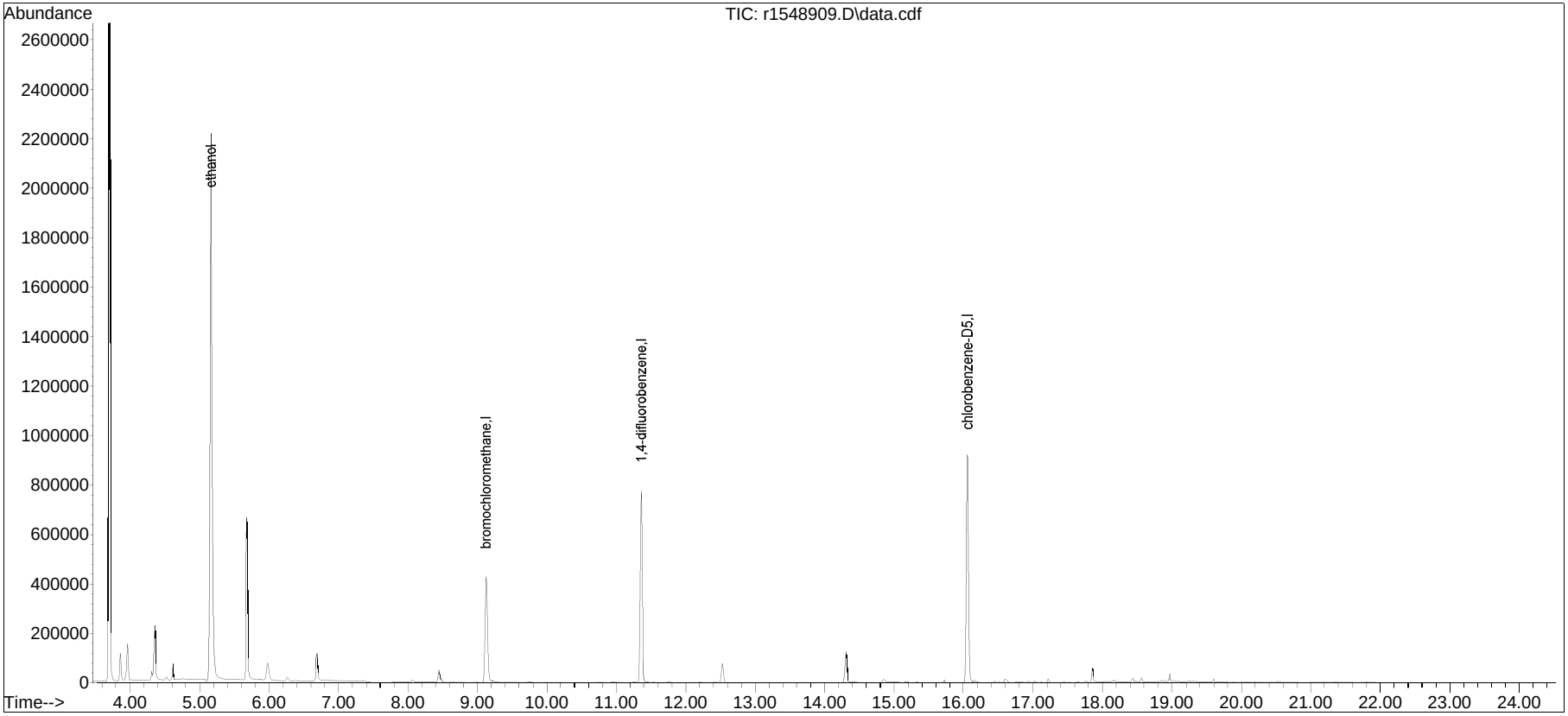
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.125	49	309687	10.000	ppbV	# 0.00
Standard Area = 349671			Recovery = 88.57%			
43) 1,4-difluorobenzene	11.360	114	734092	10.000	ppbV	0.01
Standard Area = 849696			Recovery = 86.39%			
67) chlorobenzene-D5	16.058	54	137579	10.000	ppbV	# 0.02
Standard Area = 163897			Recovery = 83.94%			
System Monitoring Compounds						
Target Compounds						Qvalue
15) ethanol	5.164	31	2278413	224.563	ppbV	# 81

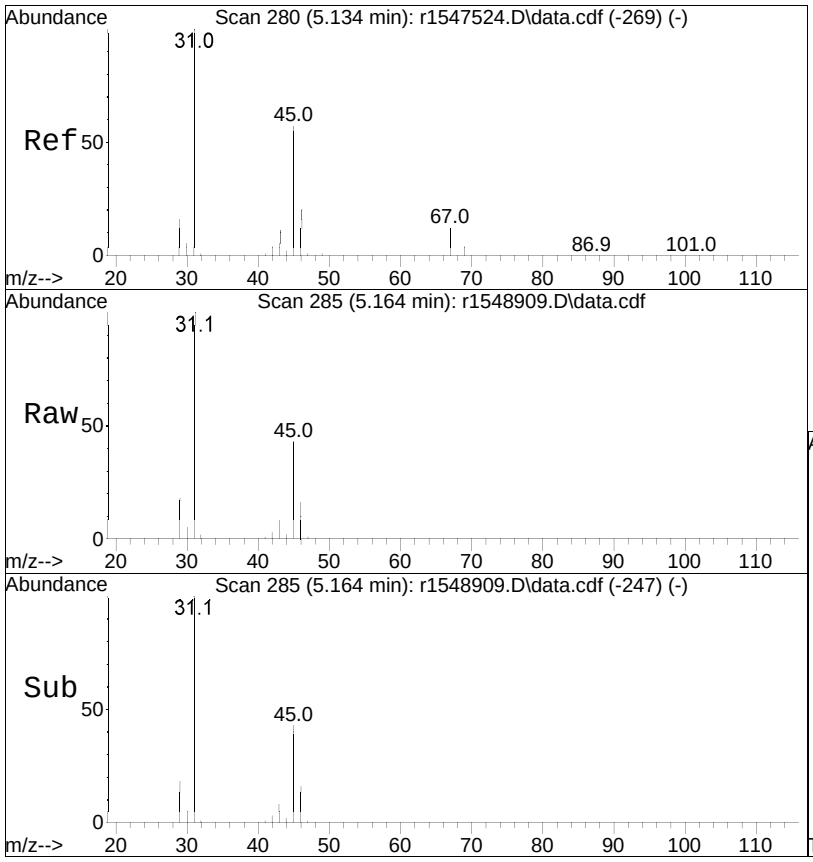
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : ETOH_ONLY - Sub List Unknown024\06\0620T\r1548900.D

Data Path : O:\Forensics\Data\Airlab15\2024\06\0620T\
Data File : r1548909.D
Acq On : 20 Jun 2024 8:53 PM
Operator : AIRLAB15:TPH
Sample : L2432670-07D,3,50,250
Misc : WG1937252,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 21 06:38:59 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0620T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

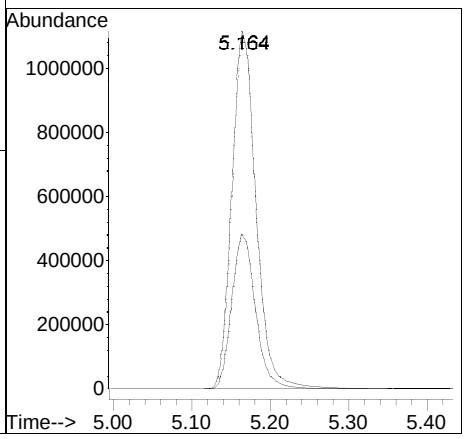




#15
ethanol
Concen: 224.56 ppbV
RT: 5.164 min Scan# 285
Delta R.T. 0.030 min
Lab File: r1548909.D
Acq: 20 Jun 2024 8:53 PM

Tgt Ion: 31 Resp: 2278413

Ion	Ratio	Lower	Upper
31	100		
45	43.4	45.7	68.5#



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab15	QMethod	: TFS15_240426.M
Data File	: r1548909.D	Operator	: AIRLAB15:TPH
Date Inj'd	: 6/20/2020 0:8: 3	Instrument	:
Sample	: L2432670-07D,3,50,250	Quant Date	: 6/21/2024 6:38 am

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0620T\
Data File : r1548910.D
Acq On : 20 Jun 2024 9:26 PM
Operator : AIRLAB15:TPH
Sample : L2432670-08D,3,50,250
Misc : WG1937252,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 21 06:39:16 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0620T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0620T\r1548900.D
Sub List : ETOH_ONLY - Sub List Unknown

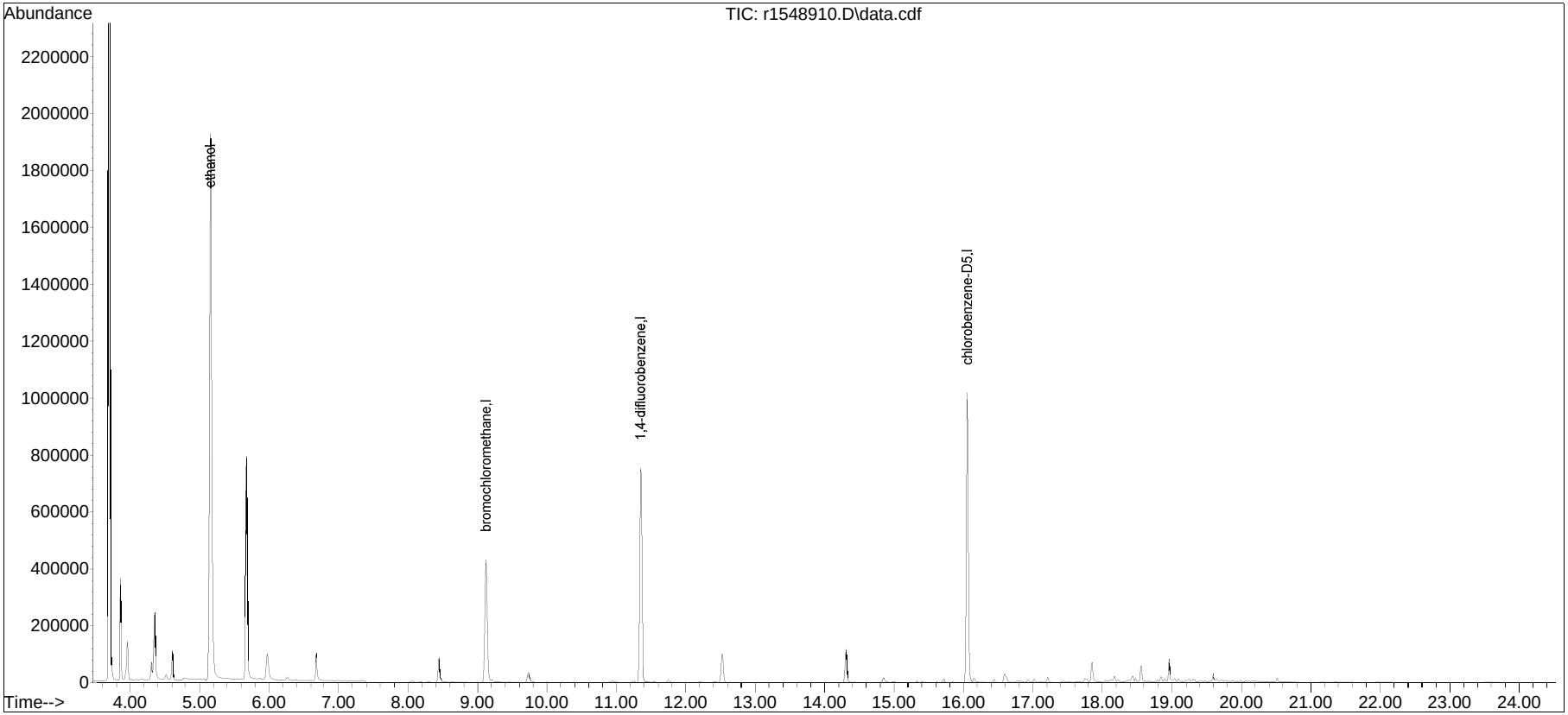
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.125	49	307590	10.000	ppbV	# 0.00
Standard Area = 349671			Recovery = 87.97%			
43) 1,4-difluorobenzene	11.353	114	721555	10.000	ppbV	0.00
Standard Area = 849696			Recovery = 84.92%			
67) chlorobenzene-D5	16.050	54	139413	10.000	ppbV	# 0.00
Standard Area = 163897			Recovery = 85.06%			
System Monitoring Compounds						
Target Compounds						Qvalue
15) ethanol	5.158	31	1950790	193.583	ppbV	# 81

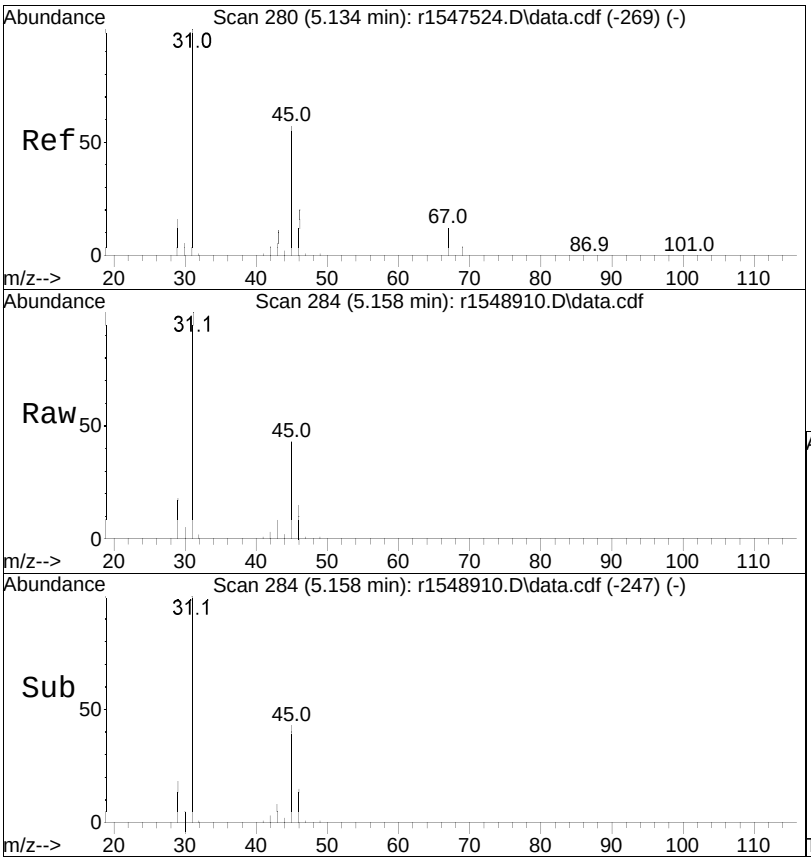
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : ETOH_ONLY - Sub List Unknown024\06\0620T\r1548900.D

Data Path : O:\Forensics\Data\Airlab15\2024\06\0620T\
Data File : r1548910.D
Acq On : 20 Jun 2024 9:26 PM
Operator : AIRLAB15:TPH
Sample : L2432670-08D,3,50,250
Misc : WG1937252,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 21 06:39:16 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0620T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

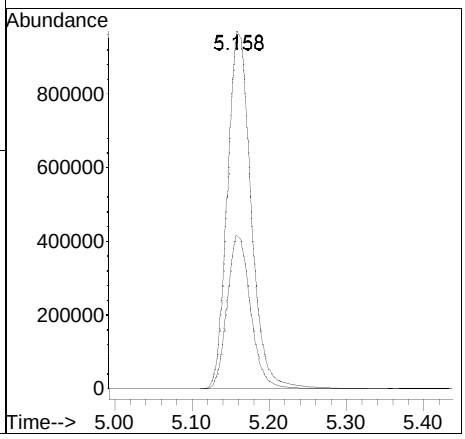




#15
ethanol
Concen: 193.58 ppbV
RT: 5.158 min Scan# 284
Delta R.T. 0.024 min
Lab File: r1548910.D
Acq: 20 Jun 2024 9:26 PM

Tgt Ion: 31 Resp: 1950790

Ion	Ratio	Lower	Upper
31	100		
45	43.2	45.7	68.5#



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab15	QMethod	: TFS15_240426.M
Data File	: r1548910.D	Operator	: AIRLAB15:TPH
Date Inj'd	: 6/20/2020 0:9: 6	Instrument	:
Sample	: L2432670-08D,3,50,250	Quant Date	: 6/21/2024 6:39 am

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0620T\
Data File : r1548911.D
Acq On : 20 Jun 2024 10:00 PM
Operator : AIRLAB15:TPH
Sample : L2432670-02D,3,3.3,250
Misc : WG1937252,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 21 06:41:02 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0620T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0620T\r1548900.D
Sub List : ETOH+2BUT - .

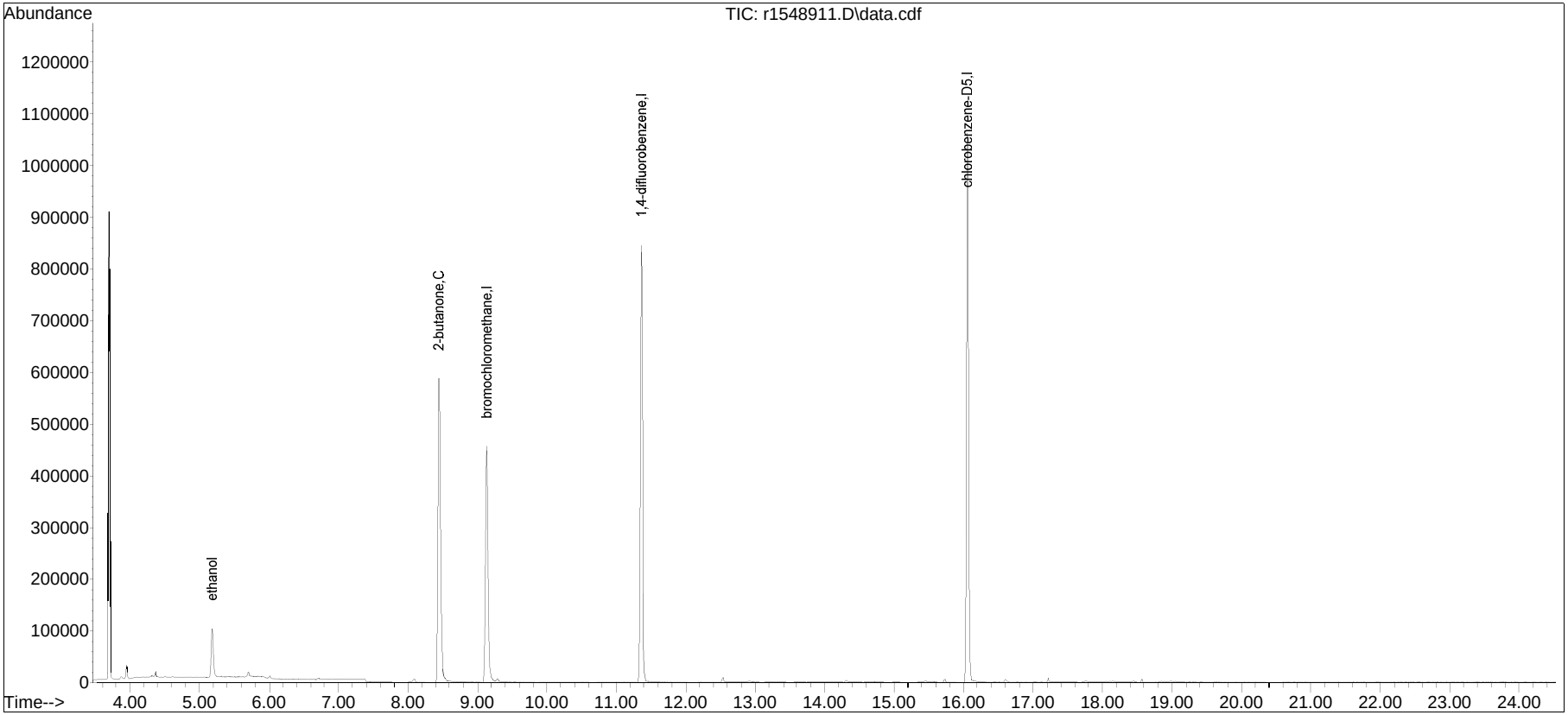
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.133	49	337596	10.000	ppbV	# 0.02
Standard Area = 349671			Recovery =		96.55%	
43) 1,4-difluorobenzene	11.367	114	819872	10.000	ppbV	0.02
Standard Area = 849696			Recovery =		96.49%	
67) chlorobenzene-D5	16.050	54	156345	10.000	ppbV	# 0.00
Standard Area = 163897			Recovery =		95.39%	
System Monitoring Compounds						
Target Compounds						Qvalue
15) ethanol	5.182	31	103709	9.377	ppbV	# 82
36) 2-butanone	8.442	43	946791	18.952	ppbV	96

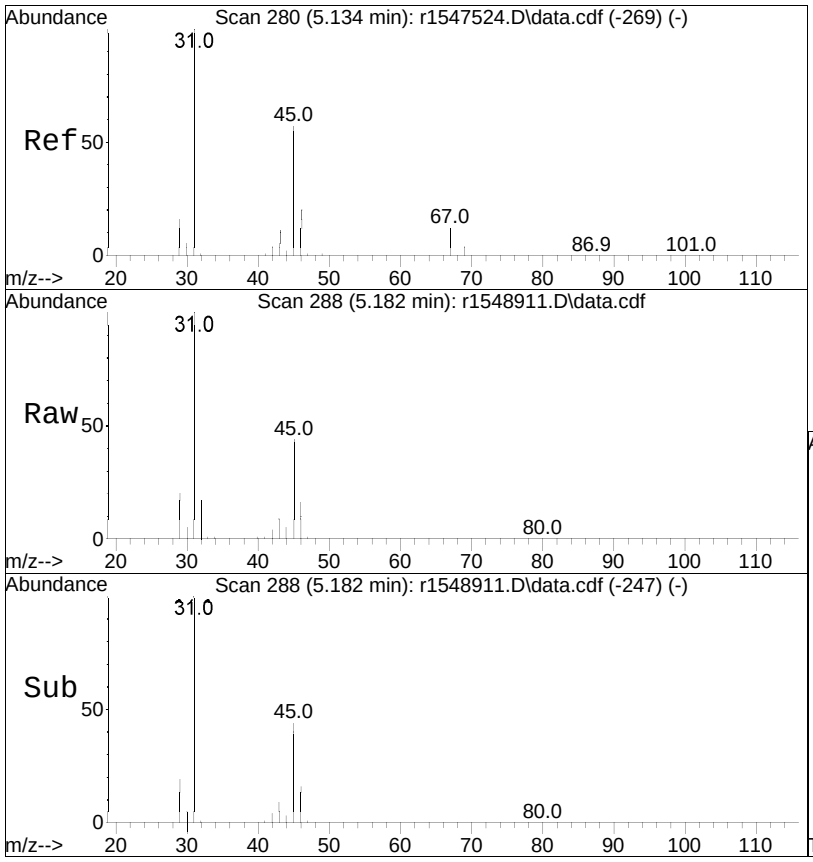
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : ETOH+2BUT - .Data\Airlab15\2024\06\0620T\r1548900.D

Data Path : O:\Forensics\Data\Airlab15\2024\06\0620T\
Data File : r1548911.D
Acq On : 20 Jun 2024 10:00 PM
Operator : AIRLAB15:TPH
Sample : L2432670-02D,3,3.3,250
Misc : WG1937252,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 21 06:41:02 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0620T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

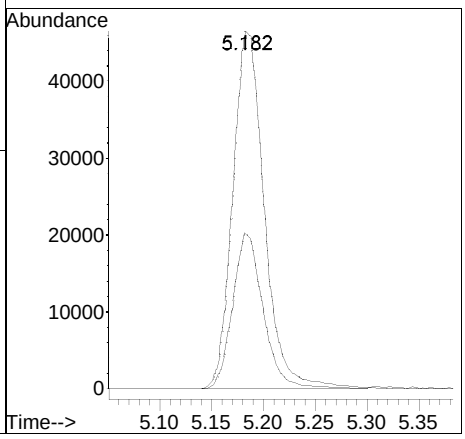


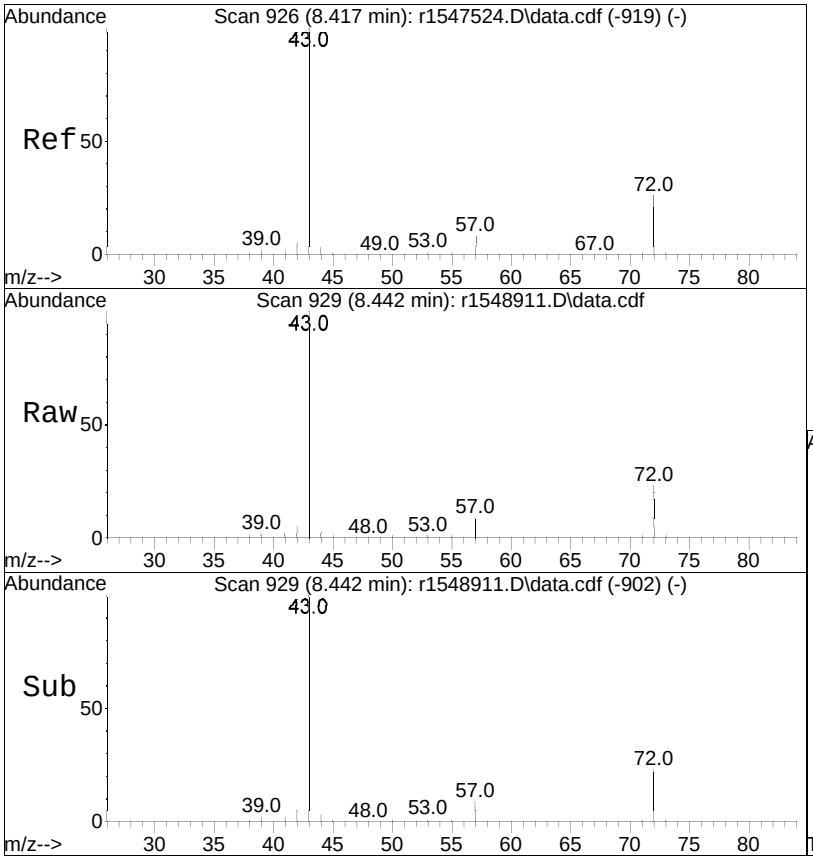


#15
ethanol
Concen: 9.38 ppbV
RT: 5.182 min Scan# 288
Delta R.T. 0.048 min
Lab File: r1548911.D
Acq: 20 Jun 2024 10:00 PM

Tgt Ion: 31 Resp: 103709

Ion	Ratio	Lower	Upper
31	100		
45	43.7	45.7	68.5#

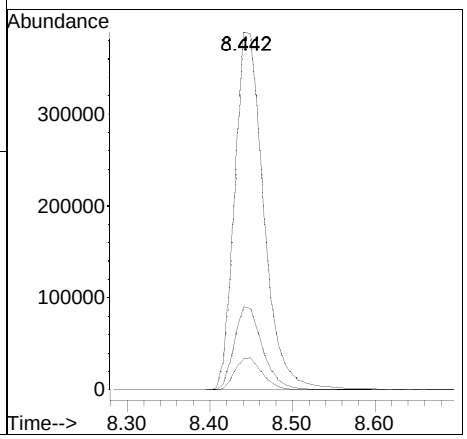




#36
2-butanone
Concen: 18.95 ppbV
RT: 8.442 min Scan# 929
Delta R.T. 0.025 min
Lab File: r1548911.D
Acq: 20 Jun 2024 10:00 PM

Tgt Ion: 43 Resp: 946791

Ion	Ratio	Lower	Upper
43	100		
72	23.3	20.9	31.3
57	8.8	6.6	10.0



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab15	QMethod	: TFS15_240426.M
Data File	: r1548911.D	Operator	: AIRLAB15:TPH
Date Inj'd	: 6/20/2020 0:0: 0	Instrument	:
Sample	: L2432670-02D,3,3.3,250	Quant Date	: 6/21/2024 6:41 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	**: AKRF, Inc.**	**Lab Number**	**: L2432670**
Project Name	**: BUD NORTH**	**Project Number**	**: 200112**
Instrument ID	**: AIRLAB15**	**Ical Ref**	**: ICAL21074**
Calibration dates	**: 04/26/24 22:31 04/27/24 03:27**		

Calibration Files

0.2 =r1547520.D 0.5 =r1547521.D 1.0 =r1547522.D 5.0 =r1547523.D 10 =r1547524.D 20 =r1547525.D

50 =r1547526.D 100 =r1547527.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
1)	I	bromochloromethane	----------ISTD----------									
2)		chlorodifluoromethane	1.528	1.190	1.090	1.107	1.075	0.733	0.744	0.713	1.0226	27.52
3)		propylene		0.936	0.790	0.763	0.763	0.518	0.565	0.552	0.6980	22.28
4)		propane		0.745	0.737	0.777	0.714	0.482	0.488	0.443	0.6264	23.53
5)		dichlorodifluoromethane	1.195	1.156	1.183	1.369	1.236	0.843	0.861	0.811	1.0817	19.59
6)	C	chloromethane	0.419	0.440	0.437	0.494	0.476	0.328	0.349	0.347	0.4115	15.26
7)		Freon-114	1.143	1.133	1.143	1.318	1.254	0.851	0.845	0.763	1.0562	19.67
8)	C	methanol			0.361	0.259	0.241	0.156	0.158	0.141	0.2193	38.77#
9)	C	vinyl chloride	0.624	0.659	0.645	0.762	0.743	0.498	0.508	0.464	0.6129	18.35
10)	C	1,3-butadiene	0.343	0.372	0.390	0.461	0.438	0.297	0.309	0.292	0.3628	17.64
11)		butane	0.861	0.879	0.917	1.006	1.002	0.717	0.763	0.757	0.8627	12.80
12)	C	acetaldehyde		0.205	0.217	0.230	0.217	0.146	0.143	0.120	0.1826	24.45
13)	C	bromomethane	0.478	0.500	0.516	0.595	0.572	0.387	0.395	0.367	0.4764	18.04
14)	C	chloroethane	0.329	0.339	0.337	0.390	0.387	0.258	0.265	0.247	0.3191	17.65
15)		ethanol			0.380	0.422	0.409	0.266	0.261	0.227	0.3276	26.06
16)		dichlorofluoromethane	1.690	1.400	1.302	1.370	1.339	0.908	0.929	0.846	1.2231	24.31
17)	C	vinyl bromide	0.499	0.520	0.533	0.641	0.642	0.448	0.465	0.427	0.5218	15.70
18)	C	acrolein		0.220	0.198	0.236	0.249	0.169	0.180	0.173	0.2035	15.67
19)		acetone	0.706	0.709	0.713	0.786	0.782	0.536	0.549	0.505	0.6608	17.15
20)	C	acetonitrile	0.593	0.571	0.597	0.654	0.659	0.463	0.493	0.474	0.5630	13.85
21)		trichlorofluoromethane	0.929	0.940	0.956	1.092	1.074	0.706	0.720	0.654	0.8838	19.18
22)		isopropyl alcohol	0.886	0.855	0.836	0.914	0.931	0.666	0.704	0.695	0.8108	13.12
23)	C	acrylonitrile	0.386	0.299	0.292	0.439	0.427	0.290	0.316	0.307	0.3445	18.13
24)		pentane	1.017	1.066	1.115	1.622	1.234	0.871	0.916	0.893	1.0918	22.63
25)		ethyl ether	0.710	0.719	0.718	1.374	0.807	0.541	0.538	0.472	0.7348	38.50#
26)	C	1,1-dichloroethene	1.066	1.102	1.140	1.331	1.337	0.921	0.953	0.899	1.0936	15.68
27)		tertiary butyl alcohol		1.274	1.309	1.513	1.571	1.116	1.180	1.139	1.3004	13.83
28)	C	methylene chloride		0.779	0.806	0.876	0.892	0.601	0.631	0.605	0.7414	17.15
29)	C	3-chloropropene	0.896	0.947	0.986	1.165	1.193	0.857	0.931	0.945	0.9901	12.42
30)	C	carbon disulfide	1.756	1.840	1.891	2.269	2.307	1.645	1.754	1.655	1.8897	13.75
31)		Freon 113	1.394	1.384	1.389	1.564	1.567	1.119	1.158	1.075	1.3312	14.50
32)		trans-1,2-dichloroethene	1.023	0.993	1.026	1.341	1.385	0.966	1.014	0.953	1.0875	15.85
33)	C	1,1-dichloroethane	1.375	1.466	1.451	1.718	1.729	1.210	1.276	1.227	1.4314	14.24
34)	C	MTBE	1.482	1.521	1.572	1.835	1.895	1.328	1.440	1.469	1.5679	12.57
35)	C	vinyl acetate	1.184	1.308	1.323	1.601	1.674	1.211	1.348	1.395	1.3804	12.61
36)	C	2-butanone		1.454	1.467	1.698	1.761	1.255	1.352	1.371	1.4798	12.53

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: AKRF, Inc.**	**Lab Number**	**: L2432670**
Project Name	**: BUD NORTH**	**Project Number**	**: 200112**
Instrument ID	**: AIRLAB15**	**Ical Ref**	**: ICAL21074**
Calibration dates	**: 04/26/24 22:31 04/27/24 03:27**		

Calibration Files

0.2 =r1547520.D 0.5 =r1547521.D 1.0 =r1547522.D 5.0 =r1547523.D 10 =r1547524.D 20 =r1547525.D

50 =r1547526.D 100 =r1547527.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
37)		cis-1,2-dichloroethene	0.967	1.038	1.071	1.287	1.325	0.907	0.950	0.896	1.0549	15.75
38)		Ethyl Acetate		0.271	0.284	0.342	0.352	0.250	0.258	0.234	0.2844	16.12
39)	C	chloroform	1.157	1.198	1.221	1.417	1.418	0.951	0.968	0.904	1.1543	17.44
40)		Tetrahydrofuran		0.867	0.894	1.082	1.126	0.803	0.885	0.896	0.9362	12.78
41)		2,2-dichloropropane	0.843	0.824	0.832	0.983	1.006	0.698	0.736	0.725	0.8309	13.81
42)	C	1,2-dichloroethane	0.872	0.836	0.862	0.970	0.975	0.653	0.675	0.636	0.8100	17.03
43)	I	1,4-difluorobenzene	----------ISTD----------									
44)	C	hexane	0.441	0.457	0.480	0.550	0.563	0.363	0.352	0.292	0.4373	21.99
45)		diisopropyl ether	0.208	0.215	0.224	0.256	0.263	0.175	0.175	0.154	0.2087	18.76
46)		tert-butyl ethyl ether	0.733	0.762	0.785	0.920	0.949	0.626	0.639	0.584	0.7498	17.84
47)	s	1,2-dichloroethane-D4	0.239	0.237	0.247	0.250	0.256	0.239	0.232	0.229	0.2412	3.86
48)	C	1,1,1-trichloroethane	0.319	0.337	0.355	0.411	0.426	0.279	0.293	0.275	0.3370	17.08
49)		1,1-dichloropropene	0.300	0.312	0.320	0.376	0.391	0.265	0.284	0.279	0.3158	14.46
50)	C	benzene	0.750	0.779	0.796	0.928	0.962	0.634	0.672	0.650	0.7715	15.92
51)		thiophene	0.442	0.466	0.482	0.567	0.585	0.386	0.400	0.374	0.4627	17.21
52)	C	carbon tetrachloride	0.262	0.271	0.287	0.343	0.352	0.230	0.241	0.234	0.2777	17.04
53)		cyclohexane	0.464	0.482	0.491	0.576	0.593	0.388	0.396	0.359	0.4687	18.33
54)		tert-amyl methyl ether	0.562	0.585	0.600	0.714	0.749	0.509	0.551	0.553	0.6029	13.98
55)		dibromomethane	0.242	0.255	0.258	0.303	0.311	0.207	0.214	0.192	0.2477	17.44
56)	C	1,2-dichloropropane	0.310	0.325	0.328	0.388	0.406	0.268	0.282	0.258	0.3207	16.73
57)		bromodichloromethane	0.332	0.368	0.374	0.454	0.477	0.310	0.321	0.303	0.3674	17.96
58)	C	1,4-dioxane	0.154	0.173	0.183	0.218	0.230	0.153	0.160	0.145	0.1769	17.78
59)	C	trichloroethene	0.321	0.335	0.337	0.403	0.418	0.275	0.288	0.263	0.3300	17.25
60)	C	2,2,4-trimethylpentane	1.437	1.534	1.581	1.837	1.885	1.219	1.176	1.019	1.4609	21.28
61)		methyl methacrylate		0.244	0.272	0.344	0.371	0.251	0.273	0.270	0.2893	16.75
62)		heptane	0.446	0.478	0.505	0.595	0.614	0.410	0.433	0.414	0.4869	16.33
63)	C	cis-1,3-dichloropropene	0.296	0.316	0.334	0.437	0.471	0.315	0.342	0.339	0.3565	17.66
64)	C	4-methyl-2-pentanone		0.504	0.538	0.669	0.696	0.473	0.508	0.493	0.5545	16.24
65)		trans-1,3-dichloropropene	0.197	0.251	0.253	0.337	0.361	0.243	0.268	0.269	0.2724	19.34
66)	C	1,1,2-trichloroethane	0.305	0.323	0.317	0.392	0.402	0.266	0.280	0.266	0.3189	16.56
67)	I	chlorobenzene-D5	----------ISTD----------									
68)	C	toluene	5.891	6.185	6.238	7.502	7.659	5.431	5.810	5.647	6.2953	13.29
69)	s	toluene-D8	5.463	5.521	5.692	5.905	6.025	6.308	6.653	7.197	6.0956	9.81
70)		2-methylthiophene	4.044	4.294	4.332	5.336	5.494	3.994	4.457	4.575	4.5656	12.26
71)		1,3-dichloropropane	2.289	2.415	2.490	2.989	3.079	2.205	2.462	2.603	2.5666	12.23
72)		2-hexanone	1.777	2.672	2.774	3.739	3.954	2.840	3.228	3.325	3.0387	22.53

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: AKRF, Inc.**	**Lab Number**	**: L2432670**
Project Name	**: BUD NORTH**	**Project Number**	**: 200112**
Instrument ID	**: AIRLAB15**	**Ical Ref**	**: ICAL21074**
Calibration dates	**: 04/26/24 22:31 04/27/24 03:27**		

Calibration Files
0.2 =r1547520.D 0.5 =r1547521.D 1.0 =r1547522.D 5.0 =r1547523.D 10 =r1547524.D 20 =r1547525.D
50 =r1547526.D 100 =r1547527.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
73)		3-methylthiophene	4.228	4.356	4.560	5.679	5.859	4.283	4.662	4.574	4.7752	13.26
74)		dibromochloromethane	1.928	2.133	2.242	2.947	3.092	2.236	2.455	2.468	2.4375	16.42
75)	C	1,2-dibromoethane	2.357	2.537	2.601	3.283	3.354	2.454	2.756	2.860	2.7753	13.38
76)		butyl acetate		0.499	0.547	0.745	0.796	0.586	0.689	0.751	0.6592	17.41
77)		octane	1.801	2.350	2.318	2.673	2.713	1.932	2.050	2.022	2.2324	15.14
78)	C	tetrachloroethene	2.313	2.369	2.434	2.894	2.992	2.119	2.337	2.348	2.4758	12.25
79)		1,1,1,2-tetrachloroethane	1.799	1.911	1.993	2.397	2.493	1.789	1.914	1.838	2.0167	13.58
80)	C	chlorobenzene	4.253	4.481	4.555	5.512	5.647	4.054	4.396	4.348	4.6556	12.69
81)	C	ethylbenzene	0.713	0.763	0.798	0.981	1.008	0.713	0.757	0.720	0.8068	14.86
82)		2-ethylthiophene	4.321	4.767	5.008	6.221	6.436	4.631	5.180	5.080	5.2054	14.35
83)	C	m+p-xylene	5.595	6.098	6.346	7.891	7.950	5.573	5.782	5.297	6.3164	16.49
84)	C	bromoform	1.551	1.725	1.862	2.635	2.771	2.053	2.326	2.369	2.1613	20.18
85)	C	styrene	3.913	4.227	4.649	5.984	6.208	4.541	5.068	5.172	4.9703	16.25
86)	C	1,1,2,2-tetrachloroethane	4.020	4.292	4.445	5.383	5.447	3.757	3.846	3.410	4.3250	17.21
87)	C	o-xylene	5.821	6.305	6.573	7.889	8.021	5.527	5.496	4.870	6.3129	18.04
88)		1,2,3-trichloropropane	2.822	3.043	3.208	3.835	3.894	2.818	3.137	3.235	3.2489	12.66
89)		nonane	4.105	4.719	4.840	5.810	5.885	4.232	4.509	4.383	4.8101	14.21
90)	s	bromofluorobenzene	3.603	3.855	4.142	4.332	4.169	4.335	4.668	5.233	4.2920	11.59
91)	C	isopropylbenzene	7.189	7.592	7.769	9.463	9.602	7.058	7.707	7.517	7.9870	12.33
92)		bromobenzene	3.883	4.083	4.224	5.017	5.097	3.681	4.030	4.070	4.2606	12.14
93)		2-chlorotoluene	2.053	2.200	2.243	2.848	2.856	2.074	2.232	2.228	2.3419	13.79
94)		n-propylbenzene	2.223	2.491	2.647	3.197	3.256	2.320	2.510	2.518	2.6452	14.43
95)		4-chlorotoluene	2.018	2.186	2.294	2.729	2.796	1.996	2.213	2.216	2.3060	13.01
96)		4-ethyl toluene	0.659	0.756	0.799	1.018	1.051	0.753	0.825	0.805	0.8331	16.15
97)		1,3,5-trimethylbenzene	7.125	7.671	7.824	9.804	9.815	7.013	7.683	7.452	8.0483	13.94
98)		tert-butylbenzene	6.292	6.950	7.438	8.784	8.850	6.134	6.179	5.358	6.9981	18.25
99)		1,2,4-trimethylbenzene	5.997	6.523	6.939	8.813	8.914	6.173	6.213	5.289	6.8577	19.30
100)		decane	5.839	6.539	6.789	8.208	8.169	5.724	5.709	4.948	6.4907	18.28
101)	C	Benzyl Chloride	2.349	2.669	3.050	4.850	5.534	4.172	4.769	4.539	3.9916	29.01
102)		1,3-dichlorobenzene	3.919	4.360	4.619	5.917	6.148	4.337	4.670	4.542	4.8140	16.40
103)	C	1,4-dichlorobenzene	4.014	4.532	4.726	5.858	6.153	4.347	4.820	4.493	4.8681	15.35
104)		sec-butylbenzene	0.880	0.959	1.002	1.229	1.274	0.913	0.970	0.905	1.0167	14.81
105)		1,2,3-trimethylbenzene	5.771	6.122	6.224	7.218	7.442	5.518	4.769	4.302	5.9209	18.35
106)		p-isopropyltoluene	7.215	7.960	8.107	9.535	9.866	7.165	6.371	5.488	7.7135	19.27
107)		1,2-dichlorobenzene	3.820	4.072	4.436	5.436	5.837	4.088	4.608	4.460	4.5946	15.23
108)		n-butylbenzene	0.691	0.778	0.831	1.009	1.020	0.725	0.753	0.703	0.8137	16.15

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: AKRF, Inc.**	**Lab Number**	**: L2432670**
Project Name	**: BUD NORTH**	**Project Number**	**: 200112**
Instrument ID	**: AIRLAB15**	**Ical Ref**	**: ICAL21074**
Calibration dates	**: 04/26/24 22:31 04/27/24 03:27**		

Calibration Files
0.2 =r1547520.D 0.5 =r1547521.D 1.0 =r1547522.D 5.0 =r1547523.D 10 =r1547524.D 20 =r1547525.D
50 =r1547526.D 100 =r1547527.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
109)		indan	6.094	6.508	6.841	8.249	8.521	6.051	6.613	6.374	6.9066	13.77
110)		indene	3.415	3.937	4.277	5.479	5.645	4.124	4.639	4.793	4.5384	16.75
111)	C	1,2-dibromo-3-chloropropane	1.117	1.276	1.387	1.836	1.966	1.419	1.642	1.714	1.5445	18.90
112)		undecane	5.353	6.762	7.397	8.914	8.965	6.220	6.080	5.190	6.8600	21.36
113)		1,2,4,5-tetramethylbenzene	0.248	0.321	0.333	0.465	0.499	0.260	0.314	0.353	0.3491	25.69
114)		dodecane	2.754	5.484	6.798	8.291	9.110	6.049	6.104	5.104	6.2117	31.51#
115)	C	1,2,4-trichlorobenzene	1.830	2.536	2.879	4.330	4.801	3.193	3.734	3.723	3.3782	28.67
116)		naphthalene	0.517	0.743	0.847	1.108	1.226	0.849	0.970	0.958	0.9022	24.21
117)		1,2,3-trichlorobenzene	1.588	2.463	2.784	3.700	4.118	2.871	3.412	3.500	3.0546	26.19
118)		benzothiophene		0.816	0.964	1.920	2.166	0.962	1.138	1.069	1.2905	40.94#
119)	C	hexachlorobutadiene	2.034	2.731	2.969	3.695	3.864	2.558	2.857	2.691	2.9249	20.44
120)		2-methylnaphthalene			1.302	3.726	5.436	2.240	3.369	3.889	3.3270	42.94#
121)		1-methylnaphthalene			2.126	5.532	7.743	3.360	4.962	5.308	4.8385	39.97#

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Method File : TFS15_240426.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Sat Apr 27 12:39:19 2024
Response Via : Initial Calibration

Calibration Files
0.2 =r1547520.D 0.5 =r1547521.D 1.0 =r1547522.D 5.0 =r1547523.D 10 =r1547524.D 20 =r1547525.D
50 =r1547526.D 100 =r1547527.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
1)	I	bromochloromethane	----------ISTD----------									
2)		chlorodifluoromethane	1.528	1.190	1.090	1.107	1.075	0.733	0.744	0.713	1.0226	27.52
3)		propylene		0.936	0.790	0.763	0.763	0.518	0.565	0.552	0.6980	22.28
4)		propane		0.745	0.737	0.777	0.714	0.482	0.488	0.443	0.6264	23.53
5)		dichlorodifluoromethane	1.195	1.156	1.183	1.369	1.236	0.843	0.861	0.811	1.0817	19.59
6)	C	chloromethane	0.419	0.440	0.437	0.494	0.476	0.328	0.349	0.347	0.4115	15.26
7)		Freon-114	1.143	1.133	1.143	1.318	1.254	0.851	0.845	0.763	1.0562	19.67
8)	C	methanol			0.361	0.259	0.241	0.156	0.158	0.141	0.2193	38.77#
9)	C	vinyl chloride	0.624	0.659	0.645	0.762	0.743	0.498	0.508	0.464	0.6129	18.35
10)	C	1,3-butadiene	0.343	0.372	0.390	0.461	0.438	0.297	0.309	0.292	0.3628	17.64
11)		butane	0.861	0.879	0.917	1.006	1.002	0.717	0.763	0.757	0.8627	12.80
12)	C	acetaldehyde		0.205	0.217	0.230	0.217	0.146	0.143	0.120	0.1826	24.45
13)	C	bromomethane	0.478	0.500	0.516	0.595	0.572	0.387	0.395	0.367	0.4764	18.04
14)	C	chloroethane	0.329	0.339	0.337	0.390	0.387	0.258	0.265	0.247	0.3191	17.65
15)		ethanol			0.380	0.422	0.409	0.266	0.261	0.227	0.3276	26.06
16)		dichlorofluoromethane	1.690	1.400	1.302	1.370	1.339	0.908	0.929	0.846	1.2231	24.31
17)	C	vinyl bromide	0.499	0.520	0.533	0.641	0.642	0.448	0.465	0.427	0.5218	15.70
18)	C	acrolein		0.220	0.198	0.236	0.249	0.169	0.180	0.173	0.2035	15.67
19)		acetone	0.706	0.709	0.713	0.786	0.782	0.536	0.549	0.505	0.6608	17.15
20)	C	acetonitrile	0.593	0.571	0.597	0.654	0.659	0.463	0.493	0.474	0.5630	13.85
21)		trichlorofluoromethane	0.929	0.940	0.956	1.092	1.074	0.706	0.720	0.654	0.8838	19.18
22)		isopropyl alcohol	0.886	0.855	0.836	0.914	0.931	0.666	0.704	0.695	0.8108	13.12
23)	C	acrylonitrile	0.386	0.299	0.292	0.439	0.427	0.290	0.316	0.307	0.3445	18.13
24)		pentane	1.017	1.066	1.115	1.622	1.234	0.871	0.916	0.893	1.0918	22.63
25)		ethyl ether	0.710	0.719	0.718	1.374	0.807	0.541	0.538	0.472	0.7348	38.50#
26)	C	1,1-dichloroethene	1.066	1.102	1.140	1.331	1.337	0.921	0.953	0.899	1.0936	15.68
27)		tertiary butyl alcohol		1.274	1.309	1.513	1.571	1.116	1.180	1.139	1.3004	13.83
28)	C	methylene chloride		0.779	0.806	0.876	0.892	0.601	0.631	0.605	0.7414	17.15
29)	C	3-chloropropene	0.896	0.947	0.986	1.165	1.193	0.857	0.931	0.945	0.9901	12.42
30)	C	carbon disulfide	1.756	1.840	1.891	2.269	2.307	1.645	1.754	1.655	1.8897	13.75
31)		Freon 113	1.394	1.384	1.389	1.564	1.567	1.119	1.158	1.075	1.3312	14.50

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Method File : TFS15_240426.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Sat Apr 27 12:39:19 2024
Response Via : Initial Calibration

Calibration Files
0.2 =r1547520.D 0.5 =r1547521.D 1.0 =r1547522.D 5.0 =r1547523.D 10 =r1547524.D 20 =r1547525.D
50 =r1547526.D 100 =r1547527.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
32)		trans-1,2-dichloroethene	1.023	0.993	1.026	1.341	1.385	0.966	1.014	0.953	1.0875	15.85
33)	C	1,1-dichloroethane	1.375	1.466	1.451	1.718	1.729	1.210	1.276	1.227	1.4314	14.24
34)	C	MTBE	1.482	1.521	1.572	1.835	1.895	1.328	1.440	1.469	1.5679	12.57
35)	C	vinyl acetate	1.184	1.308	1.323	1.601	1.674	1.211	1.348	1.395	1.3804	12.61
36)	C	2-butanone		1.454	1.467	1.698	1.761	1.255	1.352	1.371	1.4798	12.53
37)		cis-1,2-dichloroethene	0.967	1.038	1.071	1.287	1.325	0.907	0.950	0.896	1.0549	15.75
38)		Ethyl Acetate		0.271	0.284	0.342	0.352	0.250	0.258	0.234	0.2844	16.12
39)	C	chloroform	1.157	1.198	1.221	1.417	1.418	0.951	0.968	0.904	1.1543	17.44
40)		Tetrahydrofuran		0.867	0.894	1.082	1.126	0.803	0.885	0.896	0.9362	12.78
41)		2,2-dichloropropane	0.843	0.824	0.832	0.983	1.006	0.698	0.736	0.725	0.8309	13.81
42)	C	1,2-dichloroethane	0.872	0.836	0.862	0.970	0.975	0.653	0.675	0.636	0.8100	17.03
43)	I	1,4-difluorobenzene	----------	ISTD	----------							
44)	C	hexane	0.441	0.457	0.480	0.550	0.563	0.363	0.352	0.292	0.4373	21.99
45)		diisopropyl ether	0.208	0.215	0.224	0.256	0.263	0.175	0.175	0.154	0.2087	18.76
46)		tert-butyl ethyl ether	0.733	0.762	0.785	0.920	0.949	0.626	0.639	0.584	0.7498	17.84
47)	s	1,2-dichloroethane-D4	0.239	0.237	0.247	0.250	0.256	0.239	0.232	0.229	0.2412	3.86
48)	C	1,1,1-trichloroethane	0.319	0.337	0.355	0.411	0.426	0.279	0.293	0.275	0.3370	17.08
49)		1,1-dichloropropene	0.300	0.312	0.320	0.376	0.391	0.265	0.284	0.279	0.3158	14.46
50)	C	benzene	0.750	0.779	0.796	0.928	0.962	0.634	0.672	0.650	0.7715	15.92
51)		thiophene	0.442	0.466	0.482	0.567	0.585	0.386	0.400	0.374	0.4627	17.21
52)	C	carbon tetrachloride	0.262	0.271	0.287	0.343	0.352	0.230	0.241	0.234	0.2777	17.04
53)		cyclohexane	0.464	0.482	0.491	0.576	0.593	0.388	0.396	0.359	0.4687	18.33
54)		tert-amyl methyl ether	0.562	0.585	0.600	0.714	0.749	0.509	0.551	0.553	0.6029	13.98
55)		dibromomethane	0.242	0.255	0.258	0.303	0.311	0.207	0.214	0.192	0.2477	17.44
56)	C	1,2-dichloropropane	0.310	0.325	0.328	0.388	0.406	0.268	0.282	0.258	0.3207	16.73
57)		bromodichloromethane	0.332	0.368	0.374	0.454	0.477	0.310	0.321	0.303	0.3674	17.96
58)	C	1,4-dioxane	0.154	0.173	0.183	0.218	0.230	0.153	0.160	0.145	0.1769	17.78
59)	C	trichloroethene	0.321	0.335	0.337	0.403	0.418	0.275	0.288	0.263	0.3300	17.25
60)	C	2,2,4-trimethylpentane	1.437	1.534	1.581	1.837	1.885	1.219	1.176	1.019	1.4609	21.28
61)		methyl methacrylate		0.244	0.272	0.344	0.371	0.251	0.273	0.270	0.2893	16.75
62)		heptane	0.446	0.478	0.505	0.595	0.614	0.410	0.433	0.414	0.4869	16.33

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Method File : TFS15_240426.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Sat Apr 27 12:39:19 2024
Response Via : Initial Calibration

Calibration Files
0.2 =r1547520.D 0.5 =r1547521.D 1.0 =r1547522.D 5.0 =r1547523.D 10 =r1547524.D 20 =r1547525.D
50 =r1547526.D 100 =r1547527.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
63)	C	cis-1,3-dichloropropene	0.296	0.316	0.334	0.437	0.471	0.315	0.342	0.339	0.3565	17.66
64)	C	4-methyl-2-pentanone		0.504	0.538	0.669	0.696	0.473	0.508	0.493	0.5545	16.24
65)		trans-1,3-dichloropropene	0.197	0.251	0.253	0.337	0.361	0.243	0.268	0.269	0.2724	19.34
66)	C	1,1,2-trichloroethane	0.305	0.323	0.317	0.392	0.402	0.266	0.280	0.266	0.3189	16.56
67)	I	chlorobenzene-D5	----------	ISTD	----------							
68)	C	toluene	5.891	6.185	6.238	7.502	7.659	5.431	5.810	5.647	6.2953	13.29
69)	s	toluene-D8	5.463	5.521	5.692	5.905	6.025	6.308	6.653	7.197	6.0956	9.81
70)		2-methylthiophene	4.044	4.294	4.332	5.336	5.494	3.994	4.457	4.575	4.5656	12.26
71)		1,3-dichloropropane	2.289	2.415	2.490	2.989	3.079	2.205	2.462	2.603	2.5666	12.23
72)		2-hexanone	1.777	2.672	2.774	3.739	3.954	2.840	3.228	3.325	3.0387	22.53
73)		3-methylthiophene	4.228	4.356	4.560	5.679	5.859	4.283	4.662	4.574	4.7752	13.26
74)		dibromochloromethane	1.928	2.133	2.242	2.947	3.092	2.236	2.455	2.468	2.4375	16.42
75)	C	1,2-dibromoethane	2.357	2.537	2.601	3.283	3.354	2.454	2.756	2.860	2.7753	13.38
76)		butyl acetate		0.499	0.547	0.745	0.796	0.586	0.689	0.751	0.6592	17.41
77)		octane	1.801	2.350	2.318	2.673	2.713	1.932	2.050	2.022	2.2324	15.14
78)	C	tetrachloroethene	2.313	2.369	2.434	2.894	2.992	2.119	2.337	2.348	2.4758	12.25
79)		1,1,1,2-tetrachloroethane	1.799	1.911	1.993	2.397	2.493	1.789	1.914	1.838	2.0167	13.58
80)	C	chlorobenzene	4.253	4.481	4.555	5.512	5.647	4.054	4.396	4.348	4.6556	12.69
81)	C	ethylbenzene	0.713	0.763	0.798	0.981	1.008	0.713	0.757	0.720	0.8068	14.86
82)		2-ethylthiophene	4.321	4.767	5.008	6.221	6.436	4.631	5.180	5.080	5.2054	14.35
83)	C	m+p-xylene	5.595	6.098	6.346	7.891	7.950	5.573	5.782	5.297	6.3164	16.49
84)	C	bromoform	1.551	1.725	1.862	2.635	2.771	2.053	2.326	2.369	2.1613	20.18
85)	C	styrene	3.913	4.227	4.649	5.984	6.208	4.541	5.068	5.172	4.9703	16.25
86)	C	1,1,2,2-tetrachloroethane	4.020	4.292	4.445	5.383	5.447	3.757	3.846	3.410	4.3250	17.21
87)	C	o-xylene	5.821	6.305	6.573	7.889	8.021	5.527	5.496	4.870	6.3129	18.04
88)		1,2,3-trichloropropane	2.822	3.043	3.208	3.835	3.894	2.818	3.137	3.235	3.2489	12.66
89)		nonane	4.105	4.719	4.840	5.810	5.885	4.232	4.509	4.383	4.8101	14.21
90)	s	bromofluorobenzene	3.603	3.855	4.142	4.332	4.169	4.335	4.668	5.233	4.2920	11.59
91)	C	isopropylbenzene	7.189	7.592	7.769	9.463	9.602	7.058	7.707	7.517	7.9870	12.33
92)		bromobenzene	3.883	4.083	4.224	5.017	5.097	3.681	4.030	4.070	4.2606	12.14
93)		2-chlorotoluene	2.053	2.200	2.243	2.848	2.856	2.074	2.232	2.228	2.3419	13.79

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Method File : TFS15_240426.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Sat Apr 27 12:39:19 2024
Response Via : Initial Calibration

Calibration Files
0.2 =r1547520.D 0.5 =r1547521.D 1.0 =r1547522.D 5.0 =r1547523.D 10 =r1547524.D 20 =r1547525.D
50 =r1547526.D 100 =r1547527.D

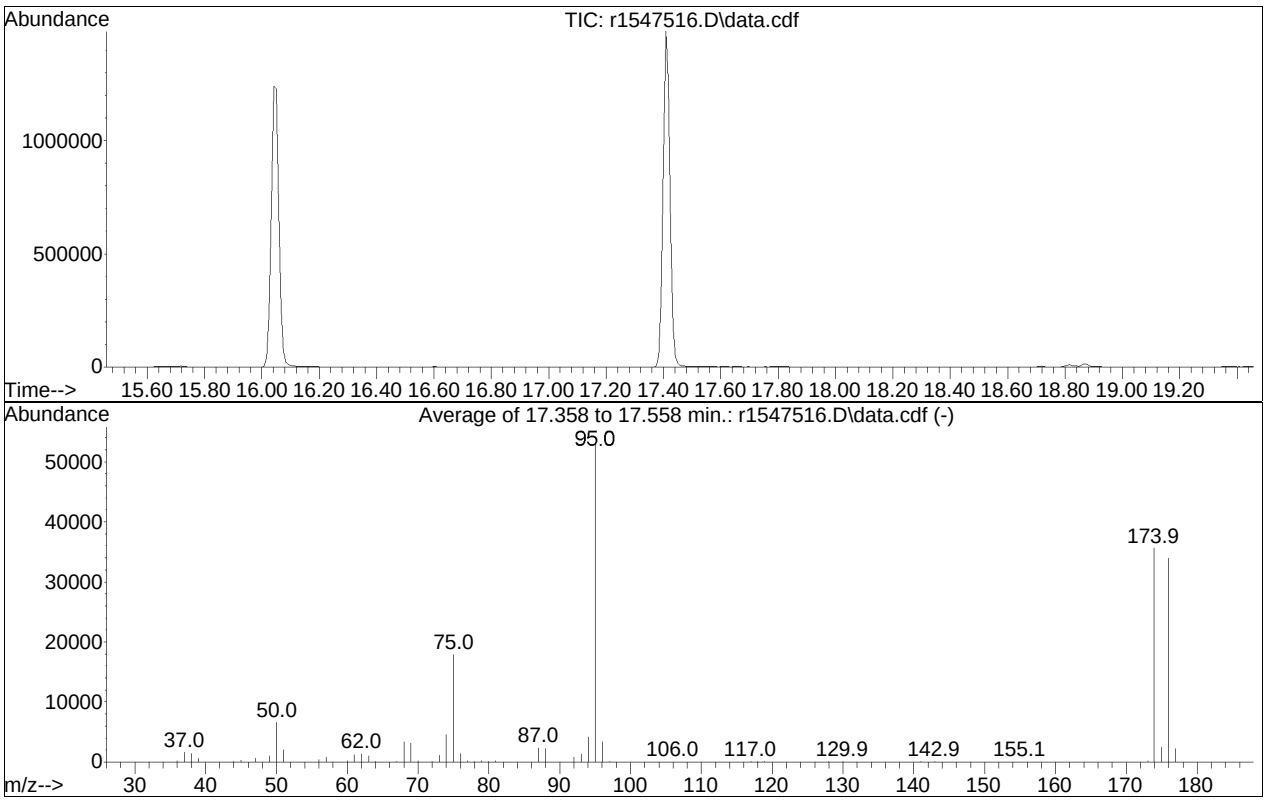
		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
94)		n-propylbenzene	2.223	2.491	2.647	3.197	3.256	2.320	2.510	2.518	2.6452	14.43
95)		4-chlorotoluene	2.018	2.186	2.294	2.729	2.796	1.996	2.213	2.216	2.3060	13.01
96)		4-ethyl toluene	0.659	0.756	0.799	1.018	1.051	0.753	0.825	0.805	0.8331	16.15
97)		1,3,5-trimethylbenzene	7.125	7.671	7.824	9.804	9.815	7.013	7.683	7.452	8.0483	13.94
98)		tert-butylbenzene	6.292	6.950	7.438	8.784	8.850	6.134	6.179	5.358	6.9981	18.25
99)		1,2,4-trimethylbenzene	5.997	6.523	6.939	8.813	8.914	6.173	6.213	5.289	6.8577	19.30
100)		decane	5.839	6.539	6.789	8.208	8.169	5.724	5.709	4.948	6.4907	18.28
101)	C	Benzyl Chloride	2.349	2.669	3.050	4.850	5.534	4.172	4.769	4.539	3.9916	29.01
102)		1,3-dichlorobenzene	3.919	4.360	4.619	5.917	6.148	4.337	4.670	4.542	4.8140	16.40
103)	C	1,4-dichlorobenzene	4.014	4.532	4.726	5.858	6.153	4.347	4.820	4.493	4.8681	15.35
104)		sec-butylbenzene	0.880	0.959	1.002	1.229	1.274	0.913	0.970	0.905	1.0167	14.81
105)		1,2,3-trimethylbenzene	5.771	6.122	6.224	7.218	7.442	5.518	4.769	4.302	5.9209	18.35
106)		p-isopropyltoluene	7.215	7.960	8.107	9.535	9.866	7.165	6.371	5.488	7.7135	19.27
107)		1,2-dichlorobenzene	3.820	4.072	4.436	5.436	5.837	4.088	4.608	4.460	4.5946	15.23
108)		n-butylbenzene	0.691	0.778	0.831	1.009	1.020	0.725	0.753	0.703	0.8137	16.15
109)		indan	6.094	6.508	6.841	8.249	8.521	6.051	6.613	6.374	6.9066	13.77
110)		indene	3.415	3.937	4.277	5.479	5.645	4.124	4.639	4.793	4.5384	16.75
111)	C	1,2-dibromo-3-chloropropane	1.117	1.276	1.387	1.836	1.966	1.419	1.642	1.714	1.5445	18.90
112)		undecane	5.353	6.762	7.397	8.914	8.965	6.220	6.080	5.190	6.8600	21.36
113)		1,2,4,5-tetramethylbenzene	0.248	0.321	0.333	0.465	0.499	0.260	0.314	0.353	0.3491	25.69
114)		dodecane	2.754	5.484	6.798	8.291	9.110	6.049	6.104	5.104	6.2117	31.51#
115)	C	1,2,4-trichlorobenzene	1.830	2.536	2.879	4.330	4.801	3.193	3.734	3.723	3.3782	28.67
116)		naphthalene	0.517	0.743	0.847	1.108	1.226	0.849	0.970	0.958	0.9022	24.21
117)		1,2,3-trichlorobenzene	1.588	2.463	2.784	3.700	4.118	2.871	3.412	3.500	3.0546	26.19
118)		benzothiophene		0.816	0.964	1.920	2.166	0.962	1.138	1.069	1.2905	40.94#
119)	C	hexachlorobutadiene	2.034	2.731	2.969	3.695	3.864	2.558	2.857	2.691	2.9249	20.44
120)		2-methylnaphthalene			1.302	3.726	5.436	2.240	3.369	3.889	3.3270	42.94#
121)		1-methylnaphthalene			2.126	5.532	7.743	3.360	4.962	5.308	4.8385	39.97#

(#) = Out of Range

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547516.D
Acq On : 26 Apr 2024 7:53 PM
Operator : AIRLAB15:JMB
Sample : WG1914187-1,3,250,250
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Sat Apr 27 12:39:19 2024



Spectrum Information: Average of 17.358 to 17.558 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	12.5	6655	PASS
75	95	30	66	33.7	17911	PASS
95	95	100	100	100.0	53185	PASS
96	95	5	9	6.4	3385	PASS
173	174	0.00	2	0.5	187	PASS
174	95	50	120	67.2	35718	PASS
175	174	4	9	6.7	2404	PASS
176	174	93	101	94.9	33910	PASS
177	176	5	9	6.6	2234	PASS

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547520.D
Acq On : 26 Apr 2024 10:31 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD0.2
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:54:19 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:53:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426T_I\r1547524.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.117	49	322102	10.000	ppbV	0.00
Standard Area = 336553			Recovery = 95.71%			
43) 1,4-difluorobenzene	11.353	114	998702	10.000	ppbV	0.00
Standard Area = 1015611			Recovery = 98.34%			
67) chlorobenzene-D5	16.042	54	163045	10.000	ppbV	0.00
Standard Area = 165724			Recovery = 98.38%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.983	65	238679	11.136	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 111.36%			
69) toluene-D8	14.192	98	890696	10.917	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.17%			
90) bromofluorobenzene	17.408	95	587394	10.151	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.51%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.892	51	9841	0.306	ppbV	94
3) propylene	3.922	41	8492M6	0.483	ppbV	
4) propane	3.946	29	4530M4	0.194	ppbV	
5) dichlorodifluoromethane	3.994	85	7699	0.275	ppbV	100
6) chloromethane	4.156	50	2701	0.165	ppbV	93
7) Freon-114	4.264	85	7364	0.231	ppbV	96
8) methanol	4.342	31	12745	1.320	ppbV #	42
9) vinyl chloride	4.390	62	4020	0.240	ppbV	99
10) 1,3-butadiene	4.534	54	2207	0.156	ppbV	82
11) butane	4.588	43	5548	0.215	ppbV #	91
12) acetaldehyde	4.294	29	6538	0.675	ppbV	93
13) bromomethane	4.816	94	3077	0.248	ppbV	90
14) chloroethane	5.008	64	2122	0.263	ppbV	95
15) ethanol	5.164	31	12315	0.893	ppbV	95
16) dichlorofluoromethane	5.116	67	10890	0.373	ppbV	97
17) vinyl bromide	5.390	106	3215	0.276	ppbV	89
18) acrolein	5.533	56	1283	0.171	ppbV #	76
19) acetone	5.680	43	22736	1.238	ppbV #	95
20) acetonitrile	5.390	41	3822	0.252	ppbV	98
21) trichlorofluoromethane	5.843	101	5983	0.316	ppbV	90
22) isopropyl alcohol	5.977	45	14262	0.549	ppbV #	89
23) acrylonitrile	6.190	53	2485M4	0.178	ppbV	
24) pentane	6.250	43	6552	0.210	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547520.D
Acq On : 26 Apr 2024 10:31 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD0.2
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:54:19 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:53:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426T_I\r1547524.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	6.290	31	4573	0.147	ppbV	#	81
26) 1,1-dichloroethene	6.546	61	6868	0.281	ppbV		98
27) tertiary butyl alcohol	6.666	59	7909	0.247	ppbV		98
28) methylene chloride	6.696	49	5328	0.215	ppbV		93
29) 3-chloropropene	6.822	41	5771	0.213	ppbV		96
30) carbon disulfide	7.008	76	11315	0.229	ppbV	#	73
31) Freon 113	6.996	101	8978	0.307	ppbV		95
32) trans-1,2-dichloroethene	7.750	61	6588	0.263	ppbV		94
33) 1,1-dichloroethane	7.975	63	8855	0.278	ppbV		98
34) MTBE	8.075	73	9550	0.221	ppbV		98
35) vinyl acetate	8.175	43	7628	0.186	ppbV		96
36) 2-butanone	8.450	43	8572	0.200	ppbV		98
37) cis-1,2-dichloroethene	8.925	61	6228	0.262	ppbV		97
38) Ethyl Acetate	9.225	61	1713	0.259	ppbV	#	37
39) chloroform	9.267	83	7451	0.250	ppbV		97
40) Tetrahydrofuran	9.750	42	5428	0.202	ppbV		95
41) 2,2-dichloropropane	9.292	77	5433	0.242	ppbV		99
42) 1,2-dichloroethane	10.108	62	5618	0.322	ppbV	#	93
44) hexane	9.183	57	8816	0.192	ppbV	#	57
45) diisopropyl ether	9.200	87	4157	0.192	ppbV		94
46) tert-butyl ethyl ether	9.817	59	14646	0.191	ppbV		98
48) 1,1,1-trichloroethane	10.400	97	6365	0.213	ppbV		90
49) 1,1-dichloropropene	10.767	75	5986	0.168	ppbV		95
50) benzene	10.933	78	14989	0.170	ppbV		99
51) thiophene	11.073	84	8822	0.180	ppbV		96
52) carbon tetrachloride	11.100	117	5242	0.195	ppbV		99
53) cyclohexane	11.247	56	9268	0.185	ppbV		96
54) tert-amyl methyl ether	11.640	73	11226	0.157	ppbV		97
55) dibromomethane	11.847	93	4833	0.216	ppbV		95
56) 1,2-dichloropropane	11.880	63	6183	0.205	ppbV		95
57) bromodichloromethane	12.100	83	6639	0.174	ppbV	#	98
58) 1,4-dioxane	12.180	88	3078	0.175	ppbV	#	69
59) trichloroethene	12.153	130	6417	0.214	ppbV		96
60) 2,2,4-trimethylpentane	12.200	57	28698	0.192	ppbV		100
61) methyl methacrylate	12.413	41	4559	0.137	ppbV		95
62) heptane	12.513	43	8914	0.146	ppbV		97
63) cis-1,3-dichloropropene	13.175	75	5912	0.142	ppbV	#	84
64) 4-methyl-2-pentanone	13.233	43	8545	0.121	ppbV		98
65) trans-1,3-dichloropropene	13.808	75	3928	0.123	ppbV		97
66) 1,1,2-trichloroethane	13.992	97	6091	0.209	ppbV	#	87

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547520.D
Acq On : 26 Apr 2024 10:31 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD0.2
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:54:19 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:53:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426T_I\r1547524.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68) toluene	14.300	91	19209	0.217	ppbV		96
70) 2-methylthiophene	14.367	97	13186	0.211	ppbV		92
71) 1,3-dichloropropane	14.325	76	7465	0.171	ppbV	#	96
72) 2-hexanone	14.608	43	5796	0.097	ppbV		98
73) 3-methylthiophene	14.558	97	13787	0.207	ppbV		91
74) dibromochloromethane	14.742	129	6286	0.197	ppbV		98
75) 1,2-dibromoethane	14.992	107	7687	0.188	ppbV		99
76) butyl acetate	15.242	73	1085	0.095	ppbV		86
77) octane	15.308	85	5873	0.170	ppbV		99
78) tetrachloroethene	15.442	166	7543	0.228	ppbV		95
79) 1,1,1,2-tetrachloroethane	16.067	131	5865	0.210	ppbV		94
80) chlorobenzene	16.083	112	13867	0.193	ppbV		98
81) ethylbenzene	16.433	91	23239	0.200	ppbV		99
82) 2-ethylthiophene	16.475	97	14091	0.186	ppbV	#	93
83) m+p-xylene	16.600	91	36489M4	0.402	ppbV		
84) bromoform	16.667	173	5057	0.184	ppbV		93
85) styrene	16.925	104	12759	0.166	ppbV		97
86) 1,1,2,2-tetrachloroethane	17.017	83	13109	0.191	ppbV		99
87) o-xylene	17.017	91	18983	0.206	ppbV		94
88) 1,2,3-trichloropropane	17.133	75	9201	0.165	ppbV	#	95
89) nonane	17.208	43	13386	0.139	ppbV		100
91) isopropylbenzene	17.525	105	23441	0.191	ppbV		97
92) bromobenzene	17.600	77	12663	0.175	ppbV		94
93) 2-chlorotoluene	17.933	126	6696	0.201	ppbV		92
94) n-propylbenzene	17.958	120	7249	0.187	ppbV		91
95) 4-chlorotoluene	17.992	126	6579	0.202	ppbV		90
96) 4-ethyl toluene	18.083	105	21476	0.164	ppbV	#	97
97) 1,3,5-trimethylbenzene	18.142	105	23234	0.185	ppbV		97
98) tert-butylbenzene	18.483	119	20519	0.195	ppbV		98
99) 1,2,4-trimethylbenzene	18.483	105	19554	0.181	ppbV	#	88
100) decane	18.558	57	19041	0.191	ppbV	#	94
101) Benzyl Chloride	18.608	91	7660	0.122	ppbV		93
102) 1,3-dichlorobenzene	18.617	146	12781	0.184	ppbV		96
103) 1,4-dichlorobenzene	18.675	146	13090	0.186	ppbV		91
104) sec-butylbenzene	18.708	105	28698	0.182	ppbV		96
105) 1,2,3-trimethylbenzene	18.833	105	18820	0.217	ppbV		99
106) p-isopropyltoluene	18.833	119	23528	0.200	ppbV		97
107) 1,2-dichlorobenzene	18.958	146	12456	0.186	ppbV		95
108) n-butylbenzene	19.183	91	22525	0.190	ppbV		97
109) indan	19.008	117	19873	0.189	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547520.D
Acq On : 26 Apr 2024 10:31 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD0.2
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:54:19 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:53:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426T_I\r1547524.D
Sub List : Default - All compounds listed

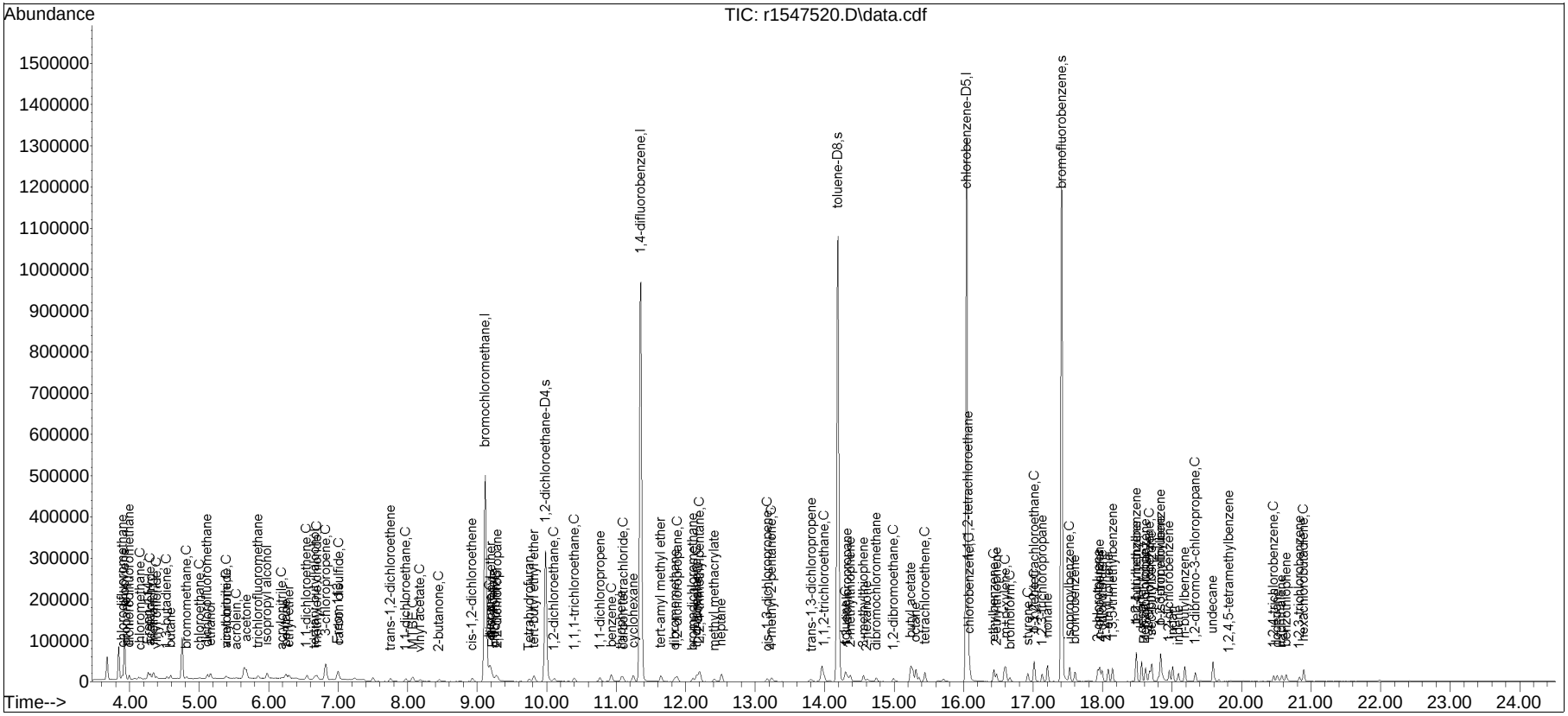
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.092	115	11135	0.158	ppbV	99
111) 1,2-dibromo-3-chloropr...	19.333	75	3642	0.141	ppbV	92
112) undecane	19.583	57	17454	0.162	ppbV	95
113) 1,2,4,5-tetramethylben...	19.817	119	808	0.147	ppbV #	86
114) dodecane	20.508	57	8979	0.092	ppbV	98
115) 1,2,4-trichlorobenzene	20.458	180	5966	0.130	ppbV	95
116) naphthalene	20.575	128	16866	0.128	ppbV	99
117) 1,2,3-trichlorobenzene	20.833	180	5179	0.127	ppbV	95
118) benzothiophene	20.642	134	16876	0.094	ppbV #	98
119) hexachlorobutadiene	20.892	225	6632	0.175	ppbV	93
120) 2-methylnaphthalene	0.000		0	N.D.		
121) 1-methylnaphthalene	21.958		0	N.D.		

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

Sub List : Default - All compounds listed4\04\0426T_I\r1547524.D

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547520.D
Acq On : 26 Apr 2024 10:31 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD0.2
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:54:19 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:53:54 2024
Response via : Initial Calibration

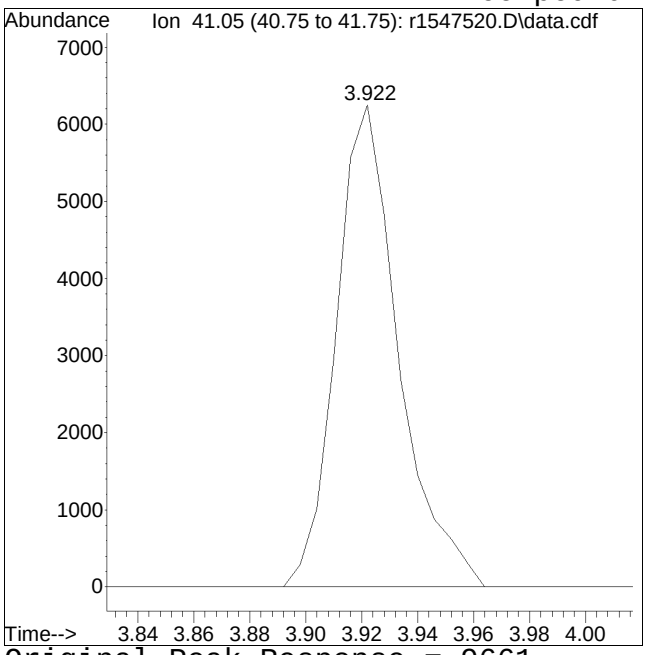


Manual Integration Report

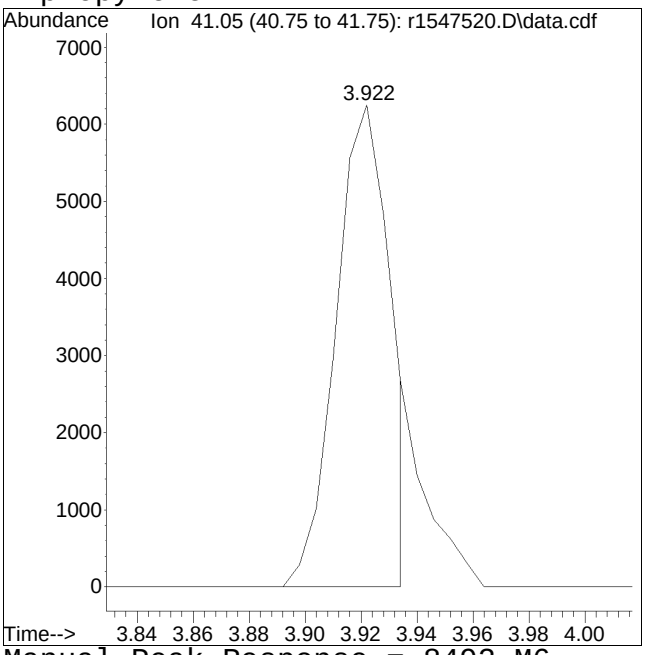
Data Path : O:\Forensics\Data\Airlab15\
Data File : r1547520.D
Date Inj'd : 4/26/2020 0:0: 1
Sample : ITO15-SIMSTD0.2

QMethod : TFS15_240426.M
Operator : AIRLAB15:JMB
Instrument :
Quant Date : 4/27/2024 8:54 am

Compound #3: propylene



Original Peak Response = 9661



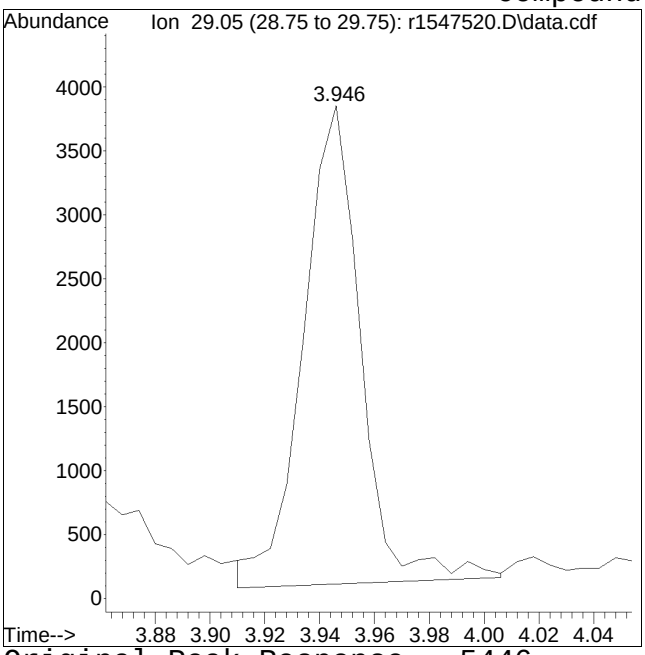
Manual Peak Response = 8492 M6

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

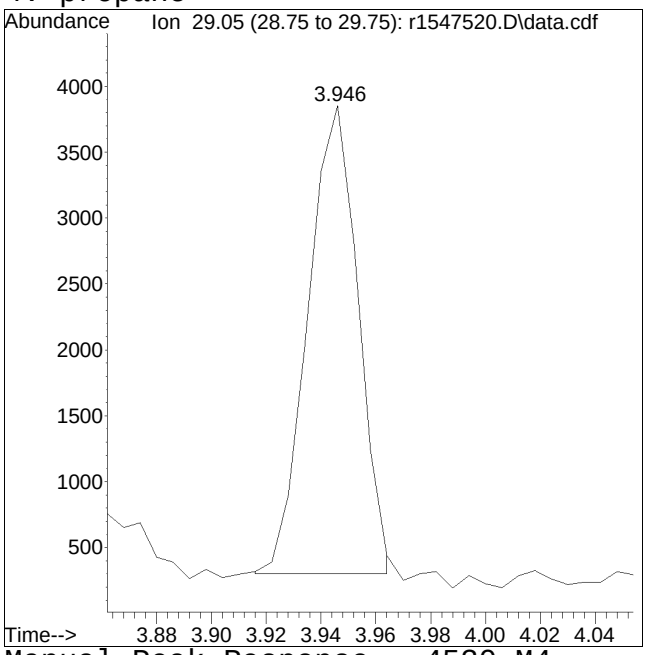
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1547520.D Operator : AIRLAB15:JMB
Date Inj'd : 4/26/2020 0:0: 1 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 4/27/2024 8:54 am

Compound #4: propane



Original Peak Response = 5446



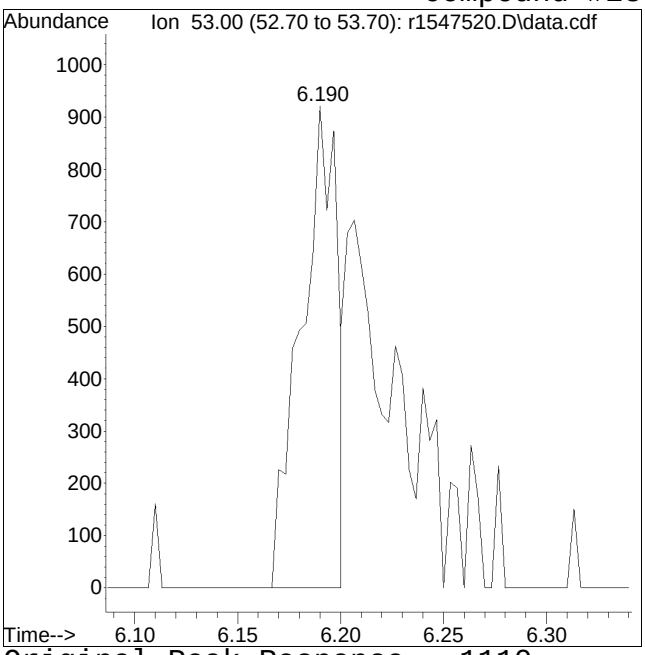
Manual Peak Response = 4530 M4

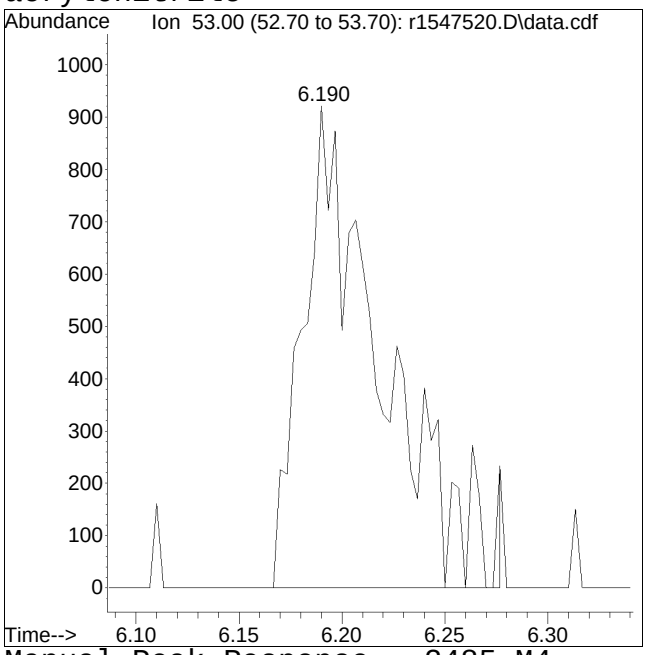
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1547520.D Operator : AIRLAB15:JMB
Date Inj'd : 4/26/2020 0:0: 1 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 4/27/2024 8:54 am

Compound #23: acrylonitrile



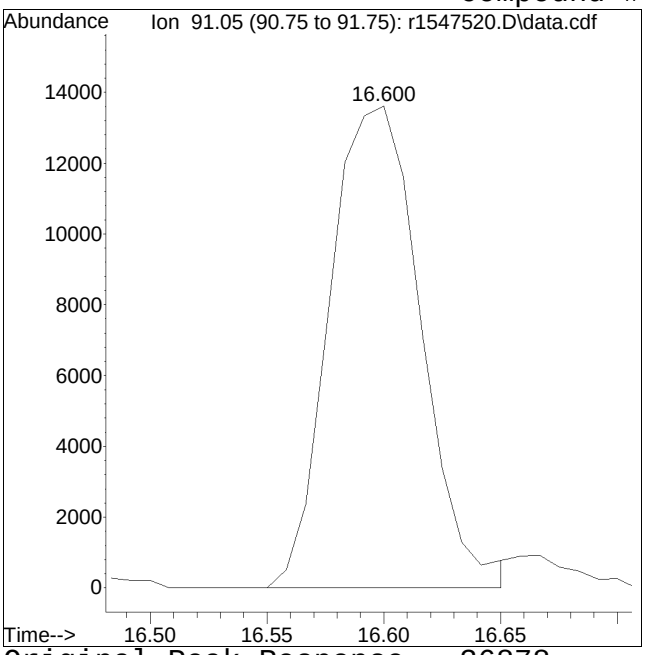


Original Peak Response = 1110 Manual Peak Response = 2485 M4
M4 = Poor automated baseline construction.

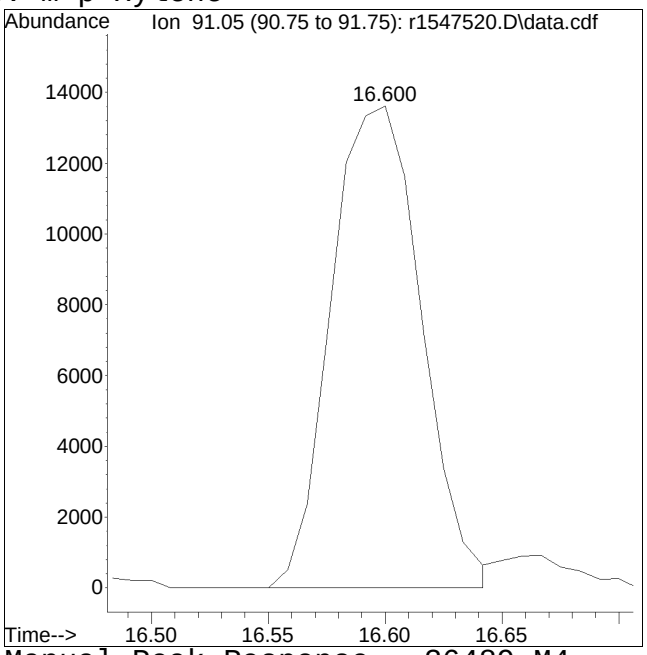
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1547520.D Operator : AIRLAB15:JMB
Date Inj'd : 4/26/2020 0:0: 1 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 4/27/2024 8:54 am

Compound #83: m+p-xylene



Original Peak Response = 36878



Manual Peak Response = 36489 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547521.D
Acq On : 26 Apr 2024 11:12 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD0.5
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:54:25 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:53:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426T_I\r1547524.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.117	49	328127	10.000	ppbV	0.00
Standard Area = 336553			Recovery = 97.50%			
43) 1,4-difluorobenzene	11.347	114	1016718	10.000	ppbV	0.00
Standard Area = 1015611			Recovery = 100.11%			
67) chlorobenzene-D5	16.042	54	166949	10.000	ppbV	0.00
Standard Area = 165724			Recovery = 100.74%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.983	65	241107	11.050	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.50%			
69) toluene-D8	14.183	98	921768	11.034	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.34%			
90) bromofluorobenzene	17.408	95	643577	10.862	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.62%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.886	51	19525	0.596	ppbV	100
3) propylene	3.916	41	15362M6	0.857	ppbV	
4) propane	3.940	29	12216	0.515	ppbV	99
5) dichlorodifluoromethane	3.988	85	18967	0.664	ppbV	92
6) chloromethane	4.156	50	7226	0.435	ppbV	97
7) Freon-114	4.264	85	18594	0.572	ppbV	99
8) methanol	4.336	31	29657	3.015	ppbV #	74
9) vinyl chloride	4.384	62	10815	0.634	ppbV	97
10) 1,3-butadiene	4.534	54	6105	0.423	ppbV	96
11) butane	4.588	43	14426	0.550	ppbV #	95
12) acetaldehyde	4.288	29	16804	1.703	ppbV	91
13) bromomethane	4.816	94	8210	0.650	ppbV	98
14) chloroethane	5.008	64	5564	0.676	ppbV	97
15) ethanol	5.152	31	30510	2.172	ppbV	98
16) dichlorofluoromethane	5.116	67	22976	0.773	ppbV	100
17) vinyl bromide	5.383	106	8539	0.720	ppbV	99
18) acrolein	5.523	56	3615	0.474	ppbV #	84
19) acetone	5.670	43	58173	3.108	ppbV	97
20) acetonitrile	5.380	41	9368	0.606	ppbV #	84
21) trichlorofluoromethane	5.843	101	15416	0.798	ppbV	96
22) isopropyl alcohol	5.967	45	35057	1.324	ppbV	100
23) acrylonitrile	6.190	53	4898M6	0.345	ppbV	
24) pentane	6.247	43	17485	0.550	ppbV	95

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547521.D
Acq On : 26 Apr 2024 11:12 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD0.5
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:54:25 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:53:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426T_I\r1547524.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	6.287	31	11802	0.373	ppbV		96
26) 1,1-dichloroethene	6.546	61	18073	0.726	ppbV		96
27) tertiary butyl alcohol	6.648	59	20907	0.642	ppbV		95
28) methylene chloride	6.690	49	12779	0.507	ppbV		99
29) 3-chloropropene	6.822	41	15538	0.562	ppbV		99
30) carbon disulfide	7.002	76	30192	0.599	ppbV	#	90
31) Freon 113	6.990	101	22708	0.763	ppbV		98
32) trans-1,2-dichloroethene	7.750	61	16286M6	0.638	ppbV		
33) 1,1-dichloroethane	7.975	63	24052	0.742	ppbV		98
34) MTBE	8.067	73	24957	0.567	ppbV		94
35) vinyl acetate	8.167	43	21453	0.513	ppbV		96
36) 2-butanone	8.442	43	23850	0.545	ppbV		97
37) cis-1,2-dichloroethene	8.925	61	17024	0.703	ppbV		99
38) Ethyl Acetate	9.217	61	4439	0.658	ppbV	#	49
39) chloroform	9.267	83	19661	0.648	ppbV		98
40) Tetrahydrofuran	9.742	42	14218	0.520	ppbV		98
41) 2,2-dichloropropane	9.292	77	13515	0.591	ppbV		96
42) 1,2-dichloroethane	10.108	62	13714	0.772	ppbV		99
44) hexane	9.183	57	23242	0.497	ppbV	#	77
45) diisopropyl ether	9.192	87	10943	0.496	ppbV		91
46) tert-butyl ethyl ether	9.808	59	38755	0.496	ppbV		100
48) 1,1,1-trichloroethane	10.392	97	17157	0.563	ppbV		98
49) 1,1-dichloropropene	10.767	75	15871	0.436	ppbV		95
50) benzene	10.927	78	39614	0.443	ppbV		96
51) thiophene	11.073	84	23678	0.474	ppbV		97
52) carbon tetrachloride	11.093	117	13794	0.505	ppbV		95
53) cyclohexane	11.247	56	24507	0.480	ppbV		96
54) tert-amyl methyl ether	11.633	73	29724	0.409	ppbV		96
55) dibromomethane	11.840	93	12959	0.570	ppbV		97
56) 1,2-dichloropropane	11.873	63	16544	0.538	ppbV		97
57) bromodichloromethane	12.107	83	18698	0.480	ppbV		96
58) 1,4-dioxane	12.173	88	8794	0.492	ppbV		82
59) trichloroethene	12.153	130	17034	0.557	ppbV		97
60) 2,2,4-trimethylpentane	12.200	57	77988	0.512	ppbV		99
61) methyl methacrylate	12.407	41	12413	0.368	ppbV		100
62) heptane	12.513	43	24278	0.390	ppbV		92
63) cis-1,3-dichloropropene	13.167	75	16071	0.380	ppbV		96
64) 4-methyl-2-pentanone	13.225	43	25611	0.357	ppbV		100
65) trans-1,3-dichloropropene	13.800	75	12761	0.393	ppbV		96
66) 1,1,2-trichloroethane	13.992	97	16432	0.553	ppbV		97

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547521.D
Acq On : 26 Apr 2024 11:12 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD0.5
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:54:25 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:53:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426T_I\r1547524.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68) toluene	14.300	91	51630	0.570	ppbV		99
70) 2-methylthiophene	14.367	97	35844	0.559	ppbV		100
71) 1,3-dichloropropane	14.325	76	20161	0.450	ppbV	#	92
72) 2-hexanone	14.600	43	22306	0.366	ppbV		99
73) 3-methylthiophene	14.558	97	36364	0.534	ppbV		94
74) dibromochloromethane	14.742	129	17805	0.544	ppbV		100
75) 1,2-dibromoethane	14.992	107	21180	0.505	ppbV		96
76) butyl acetate	15.233	73	4169	0.358	ppbV		95
77) octane	15.308	85	19615	0.555	ppbV		98
78) tetrachloroethene	15.442	166	19779	0.583	ppbV		99
79) 1,1,1,2-tetrachloroethane	16.067	131	15953	0.558	ppbV		96
80) chlorobenzene	16.083	112	37401	0.509	ppbV		95
81) ethylbenzene	16.433	91	63713	0.537	ppbV		96
82) 2-ethylthiophene	16.467	97	39794	0.514	ppbV		99
83) m+p-xylene	16.592	91	101803	1.095	ppbV		97
84) bromoform	16.667	173	14398	0.512	ppbV		97
85) styrene	16.917	104	35286	0.449	ppbV		97
86) 1,1,2,2-tetrachloroethane	17.017	83	35831	0.509	ppbV		98
87) o-xylene	17.008	91	52628	0.559	ppbV		98
88) 1,2,3-trichloropropane	17.125	75	25400	0.444	ppbV		98
89) nonane	17.208	43	39391	0.399	ppbV		97
91) isopropylbenzene	17.525	105	63374	0.505	ppbV		98
92) bromobenzene	17.600	77	34082	0.460	ppbV		99
93) 2-chlorotoluene	17.925	126	18368	0.539	ppbV		95
94) n-propylbenzene	17.958	120	20795	0.523	ppbV		96
95) 4-chlorotoluene	17.992	126	18246	0.547	ppbV		93
96) 4-ethyl toluene	18.075	105	63074	0.470	ppbV		98
97) 1,3,5-trimethylbenzene	18.142	105	64037	0.499	ppbV		98
98) tert-butylbenzene	18.483	119	58018	0.537	ppbV		98
99) 1,2,4-trimethylbenzene	18.483	105	54449	0.492	ppbV		91
100) decane	18.558	57	54588	0.536	ppbV		93
101) Benzyl Chloride	18.608	91	22276	0.347	ppbV		96
102) 1,3-dichlorobenzene	18.617	146	36395	0.512	ppbV		95
103) 1,4-dichlorobenzene	18.675	146	37834	0.525	ppbV	#	92
104) sec-butylbenzene	18.700	105	80080	0.496	ppbV		97
105) 1,2,3-trimethylbenzene	18.833	105	51103	0.575	ppbV		97
106) p-isopropyltoluene	18.833	119	66448	0.551	ppbV		97
107) 1,2-dichlorobenzene	18.958	146	33993	0.495	ppbV	#	92
108) n-butylbenzene	19.183	91	64923	0.535	ppbV		93
109) indan	19.008	117	54326	0.506	ppbV		98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547521.D
Acq On : 26 Apr 2024 11:12 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD0.5
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:54:25 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:53:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426T_I\r1547524.D
Sub List : Default - All compounds listed

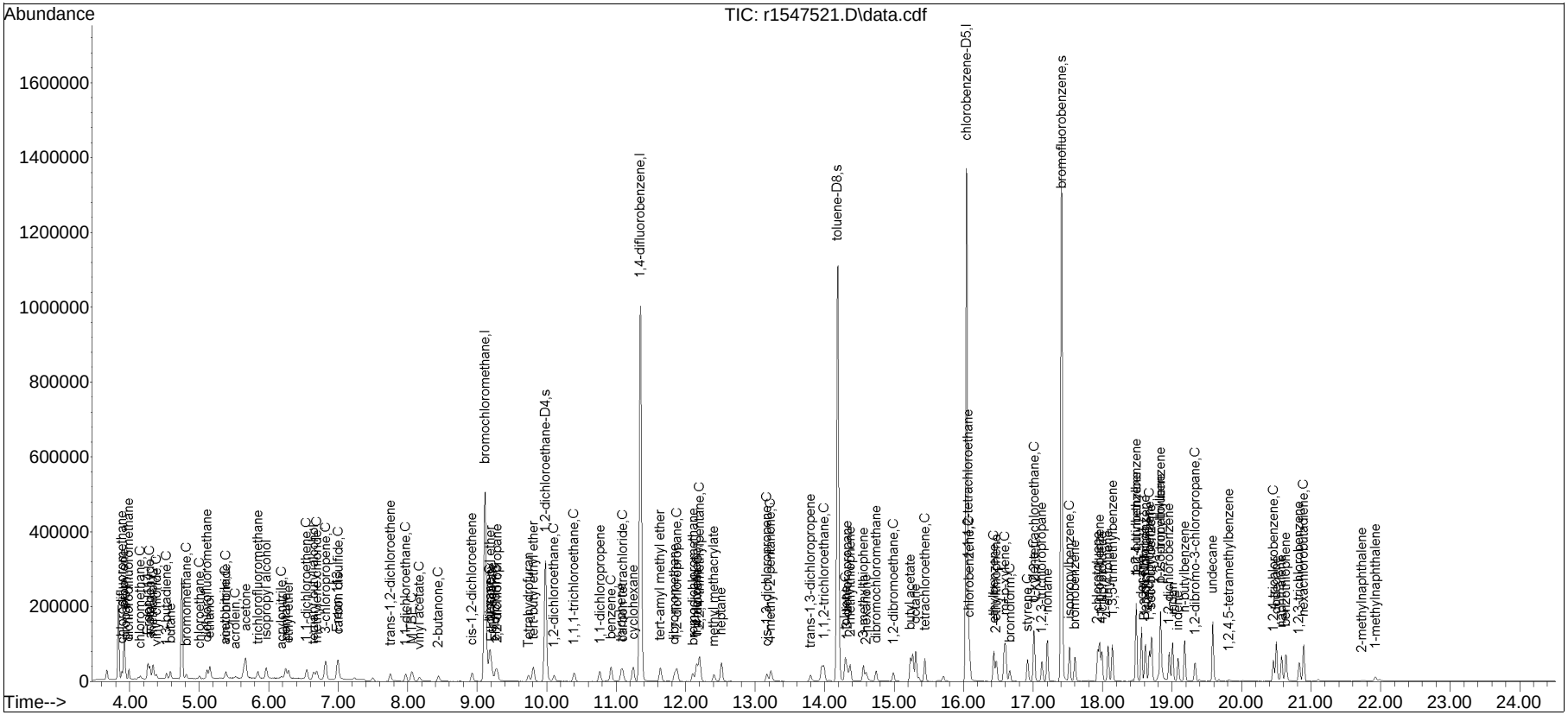
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.083	115	32866	0.455	ppbV	95
111) 1,2-dibromo-3-chloropr...	19.333	75	10648	0.403	ppbV	86
112) undecane	19.583	57	56449	0.511	ppbV	98
113) 1,2,4,5-tetramethylben...	19.817	119	2677	0.475	ppbV	97
114) dodecane	20.500	57	45779	0.457	ppbV	99
115) 1,2,4-trichlorobenzene	20.458	180	21168	0.450	ppbV	96
116) naphthalene	20.575	128	62040	0.459	ppbV	99
117) 1,2,3-trichlorobenzene	20.825	180	20561	0.491	ppbV	95
118) benzothiophene	20.633	134	68075	0.369	ppbV	99
119) hexachlorobutadiene	20.892	225	22799	0.586	ppbV	97
120) 2-methylnaphthalene	21.733	142	5171	0.113	ppbV #	92
121) 1-methylnaphthalene	21.925	142	12011	0.187	ppbV	95

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

Sub List : Default - All compounds listed4\04\0426T_I\r1547524.D

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547521.D
Acq On : 26 Apr 2024 11:12 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD0.5
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:54:25 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:53:54 2024
Response via : Initial Calibration

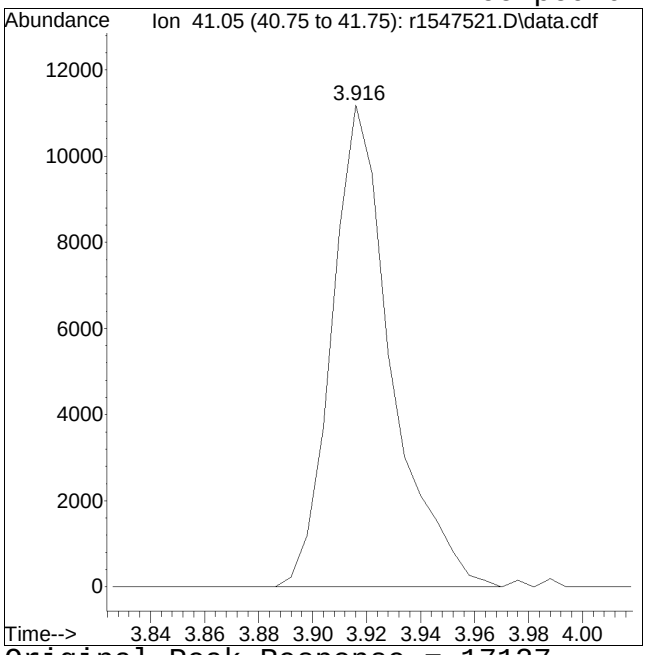


Manual Integration Report

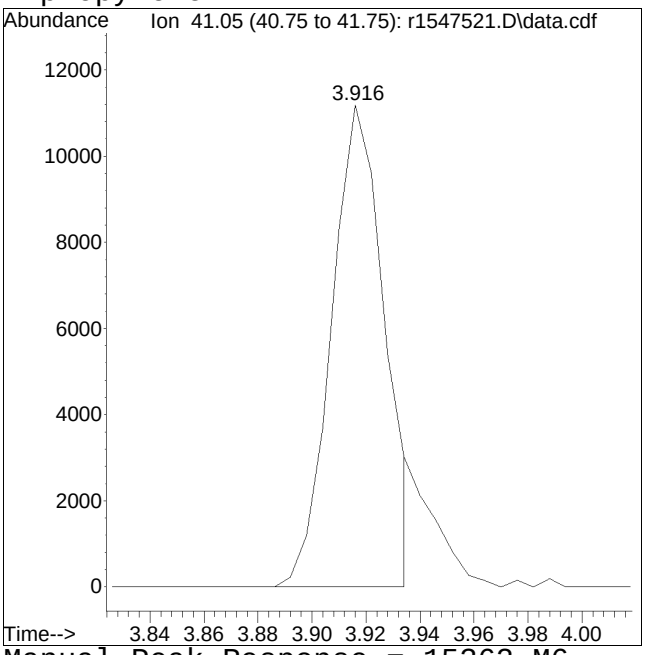
Data Path : O:\Forensics\Data\Airlab15\
Data File : r1547521.D
Date Inj'd : 4/26/2020 0:1: 2
Sample : ITO15-SIMSTD0.5

Method : TFS15_240426.M
Operator : AIRLAB15:JMB
Instrument :
Quant Date : 4/27/2024 8:54 am

Compound #3: propylene



Original Peak Response = 17127



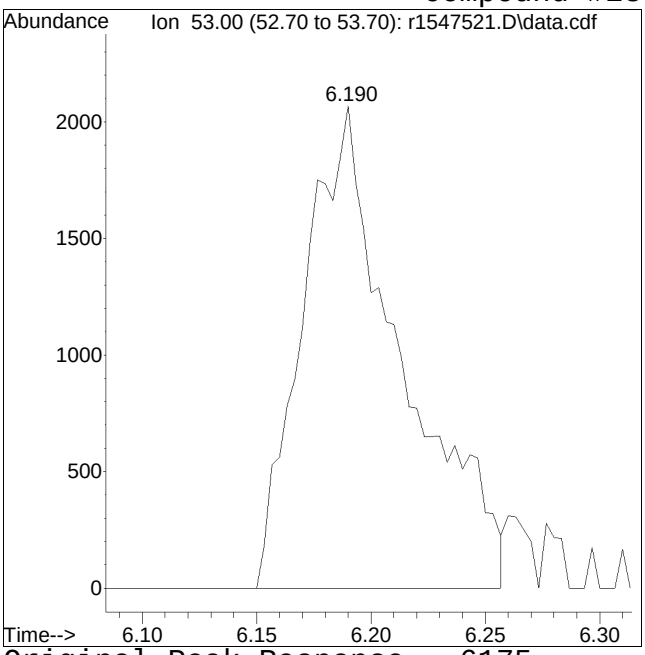
Manual Peak Response = 15362 M6

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

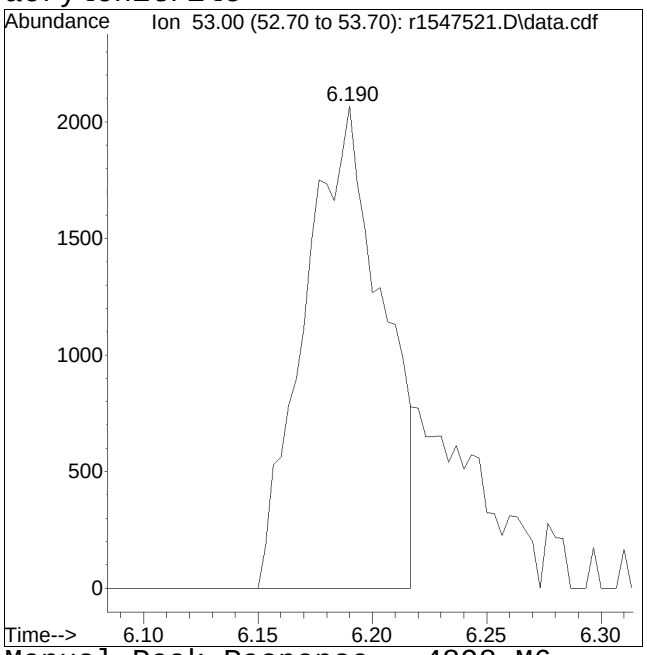
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1547521.D Operator : AIRLAB15:JMB
Date Inj'd : 4/26/2020 0:1: 2 Instrument :
Sample : ITO15-SIMSTD0.5 Quant Date : 4/27/2024 8:54 am

Compound #23: acrylonitrile



Original Peak Response = 6175



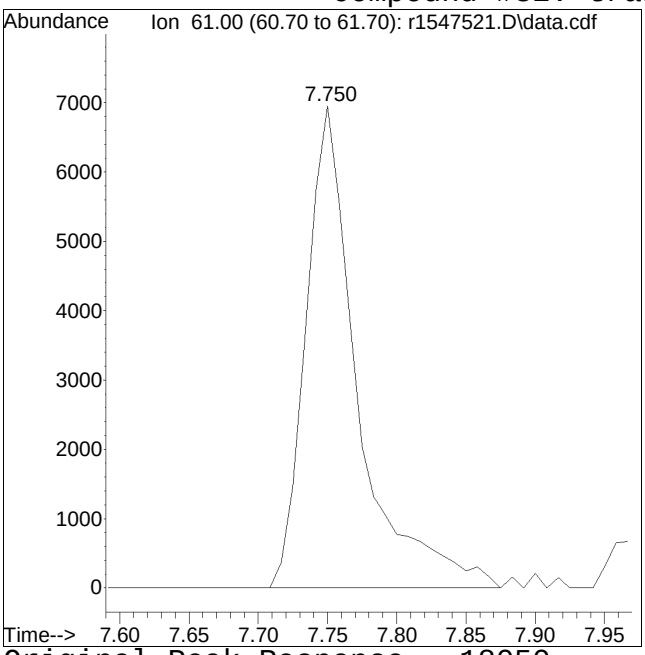
Manual Peak Response = 4898 M6

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

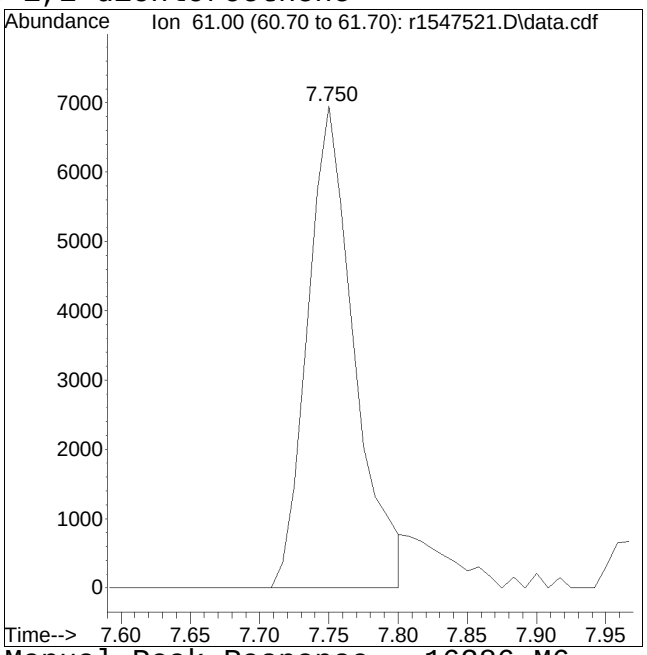
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1547521.D Operator : AIRLAB15:JMB
Date Inj'd : 4/26/2020 0:1: 2 Instrument :
Sample : ITO15-SIMSTD0.5 Quant Date : 4/27/2024 8:54 am

Compound #32: trans-1,2-dichloroethene



Original Peak Response = 18050



Manual Peak Response = 16286 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547522.D
Acq On : 26 Apr 2024 11:56 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD1.0
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:54:30 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:53:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426T_I\r1547524.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.117	49	328450	10.000	ppbV	0.00
Standard Area = 336553			Recovery = 97.59%			
43) 1,4-difluorobenzene	11.347	114	1013151	10.000	ppbV	0.00
Standard Area = 1015611			Recovery = 99.76%			
67) chlorobenzene-D5	16.042	54	167650	10.000	ppbV	0.00
Standard Area = 165724			Recovery = 101.16%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.983	65	250113	11.503	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.03%			
69) toluene-D8	14.183	98	954293	11.376	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 113.76%			
90) bromofluorobenzene	17.408	95	694355	11.670	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 116.70%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.886	51	35805	1.092	ppbV	99
3) propylene	3.916	41	25942M6	1.446	ppbV	
4) propane	3.940	29	24216	1.019	ppbV	97
5) dichlorodifluoromethane	3.988	85	38860	1.359	ppbV	98
6) chloromethane	4.156	50	14364	0.863	ppbV	96
7) Freon-114	4.264	85	37538	1.153	ppbV	98
8) methanol	4.330	31	59342	6.026	ppbV	90
9) vinyl chloride	4.384	62	21169	1.239	ppbV	98
10) 1,3-butadiene	4.528	54	12814	0.887	ppbV	98
11) butane	4.582	43	30110	1.147	ppbV	99
12) acetaldehyde	4.288	29	35598	3.604	ppbV	93
13) bromomethane	4.810	94	16941	1.340	ppbV	98
14) chloroethane	5.002	64	11082	1.346	ppbV	98
15) ethanol	5.146	31	62470	4.442	ppbV	96
16) dichlorofluoromethane	5.116	67	42758	1.436	ppbV	99
17) vinyl bromide	5.383	106	17502	1.475	ppbV	95
18) acrolein	5.520	56	6507	0.853	ppbV #	92
19) acetone	5.660	43	117078	6.250	ppbV #	98
20) acetonitrile	5.377	41	19601	1.267	ppbV	99
21) trichlorofluoromethane	5.840	101	31416	1.625	ppbV	94
22) isopropyl alcohol	5.957	45	68669	2.591	ppbV	98
23) acrylonitrile	6.177	53	9584	0.675	ppbV	96
24) pentane	6.243	43	36606	1.150	ppbV	97

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547522.D
Acq On : 26 Apr 2024 11:56 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD1.0
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:54:30 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:53:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426T_I\r1547524.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	6.280	31	23591	0.744	ppbV		99
26) 1,1-dichloroethene	6.546	61	37428	1.502	ppbV		99
27) tertiary butyl alcohol	6.636	59	43004	1.320	ppbV		99
28) methylene chloride	6.690	49	26460	1.048	ppbV		95
29) 3-chloropropene	6.822	41	32383	1.171	ppbV		99
30) carbon disulfide	6.996	76	62102	1.231	ppbV	#	93
31) Freon 113	6.996	101	45638	1.532	ppbV		95
32) trans-1,2-dichloroethene	7.750	61	33700M6	1.319	ppbV		
33) 1,1-dichloroethane	7.967	63	47659	1.469	ppbV		98
34) MTBE	8.058	73	51622	1.172	ppbV		98
35) vinyl acetate	8.167	43	43447	1.038	ppbV		100
36) 2-butanone	8.433	43	48185	1.100	ppbV		98
37) cis-1,2-dichloroethene	8.925	61	35171	1.451	ppbV		94
38) Ethyl Acetate	9.208	61	9334	1.382	ppbV	#	47
39) chloroform	9.267	83	40102	1.321	ppbV		100
40) Tetrahydrofuran	9.725	42	29378M6	1.074	ppbV		
41) 2,2-dichloropropane	9.292	77	27341	1.195	ppbV		98
42) 1,2-dichloroethane	10.108	62	28306	1.592	ppbV		96
44) hexane	9.175	57	48620	1.044	ppbV	#	72
45) diisopropyl ether	9.183	87	22700	1.032	ppbV		94
46) tert-butyl ethyl ether	9.800	59	79520	1.022	ppbV		98
48) 1,1,1-trichloroethane	10.400	97	35933	1.184	ppbV		98
49) 1,1-dichloropropene	10.760	75	32399	0.894	ppbV		96
50) benzene	10.927	78	80622	0.904	ppbV		100
51) thiophene	11.073	84	48834	0.981	ppbV		97
52) carbon tetrachloride	11.093	117	29074	1.067	ppbV		94
53) cyclohexane	11.247	56	49748	0.978	ppbV		95
54) tert-amyl methyl ether	11.627	73	60833	0.841	ppbV		97
55) dibromomethane	11.840	93	26110	1.153	ppbV		98
56) 1,2-dichloropropane	11.873	63	33241	1.085	ppbV		96
57) bromodichloromethane	12.100	83	37907	0.978	ppbV		97
58) 1,4-dioxane	12.160	88	18492	1.038	ppbV		97
59) trichloroethene	12.153	130	34110	1.120	ppbV		97
60) 2,2,4-trimethylpentane	12.200	57	160218	1.055	ppbV		98
61) methyl methacrylate	12.400	41	27544	0.819	ppbV		97
62) heptane	12.513	43	51147	0.825	ppbV		98
63) cis-1,3-dichloropropene	13.167	75	33848	0.803	ppbV		98
64) 4-methyl-2-pentanone	13.217	43	54542	0.762	ppbV		97
65) trans-1,3-dichloropropene	13.792	75	25607	0.792	ppbV		99
66) 1,1,2-trichloroethane	13.983	97	32087	1.085	ppbV		97

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547522.D
Acq On : 26 Apr 2024 11:56 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD1.0
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:54:30 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:53:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426T_I\r1547524.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.292	91	104577	1.149	ppbV	99
70) 2-methylthiophene	14.367	97	72627	1.128	ppbV	99
71) 1,3-dichloropropane	14.325	76	41745	0.929	ppbV	99
72) 2-hexanone	14.583	43	46504	0.760	ppbV	97
73) 3-methylthiophene	14.558	97	76453	1.118	ppbV	92
74) dibromochloromethane	14.733	129	37584	1.143	ppbV	96
75) 1,2-dibromoethane	14.983	107	43605	1.034	ppbV	98
76) butyl acetate	15.225	73	9178	0.785	ppbV	99
77) octane	15.308	85	38864	1.094	ppbV	97
78) tetrachloroethene	15.442	166	40803	1.197	ppbV	98
79) 1,1,1,2-tetrachloroethane	16.067	131	33413	1.163	ppbV	96
80) chlorobenzene	16.083	112	76366	1.034	ppbV	99
81) ethylbenzene	16.433	91	133846	1.123	ppbV	99
82) 2-ethylthiophene	16.467	97	83951	1.080	ppbV	98
83) m+p-xylene	16.592	91	212779	2.280	ppbV	99
84) bromoform	16.658	173	31212	1.105	ppbV	99
85) styrene	16.917	104	77944	0.988	ppbV	97
86) 1,1,2,2-tetrachloroethane	17.008	83	74523	1.055	ppbV	100
87) o-xylene	17.008	91	110202	1.166	ppbV	96
88) 1,2,3-trichloropropane	17.125	75	53782	0.937	ppbV	98
89) nonane	17.200	43	81137	0.819	ppbV	97
91) isopropylbenzene	17.517	105	130240	1.033	ppbV	100
92) bromobenzene	17.600	77	70812	0.952	ppbV	99
93) 2-chlorotoluene	17.925	126	37598	1.098	ppbV	100
94) n-propylbenzene	17.950	120	44378	1.111	ppbV	94
95) 4-chlorotoluene	17.983	126	38460	1.148	ppbV	95
96) 4-ethyl toluene	18.075	105	133878	0.994	ppbV	97
97) 1,3,5-trimethylbenzene	18.133	105	131162	1.018	ppbV	98
98) tert-butylbenzene	18.483	119	124693	1.150	ppbV	97
99) 1,2,4-trimethylbenzene	18.483	105	116339	1.046	ppbV	93
100) decane	18.558	57	113810	1.113	ppbV	97
101) Benzyl Chloride	18.600	91	51141	0.794	ppbV	96
102) 1,3-dichlorobenzene	18.617	146	77444	1.084	ppbV	97
103) 1,4-dichlorobenzene	18.667	146	79237	1.096	ppbV	95
104) sec-butylbenzene	18.700	105	168030	1.036	ppbV	99
105) 1,2,3-trimethylbenzene	18.833	105	104352	1.169	ppbV	99
106) p-isopropyltoluene	18.825	119	135918	1.123	ppbV	99
107) 1,2-dichlorobenzene	18.950	146	74372	1.078	ppbV	98
108) n-butylbenzene	19.175	91	139364	1.145	ppbV	96
109) indan	19.008	117	114694	1.063	ppbV	95

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547522.D
Acq On : 26 Apr 2024 11:56 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD1.0
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:54:30 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:53:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426T_I\r1547524.D
Sub List : Default - All compounds listed

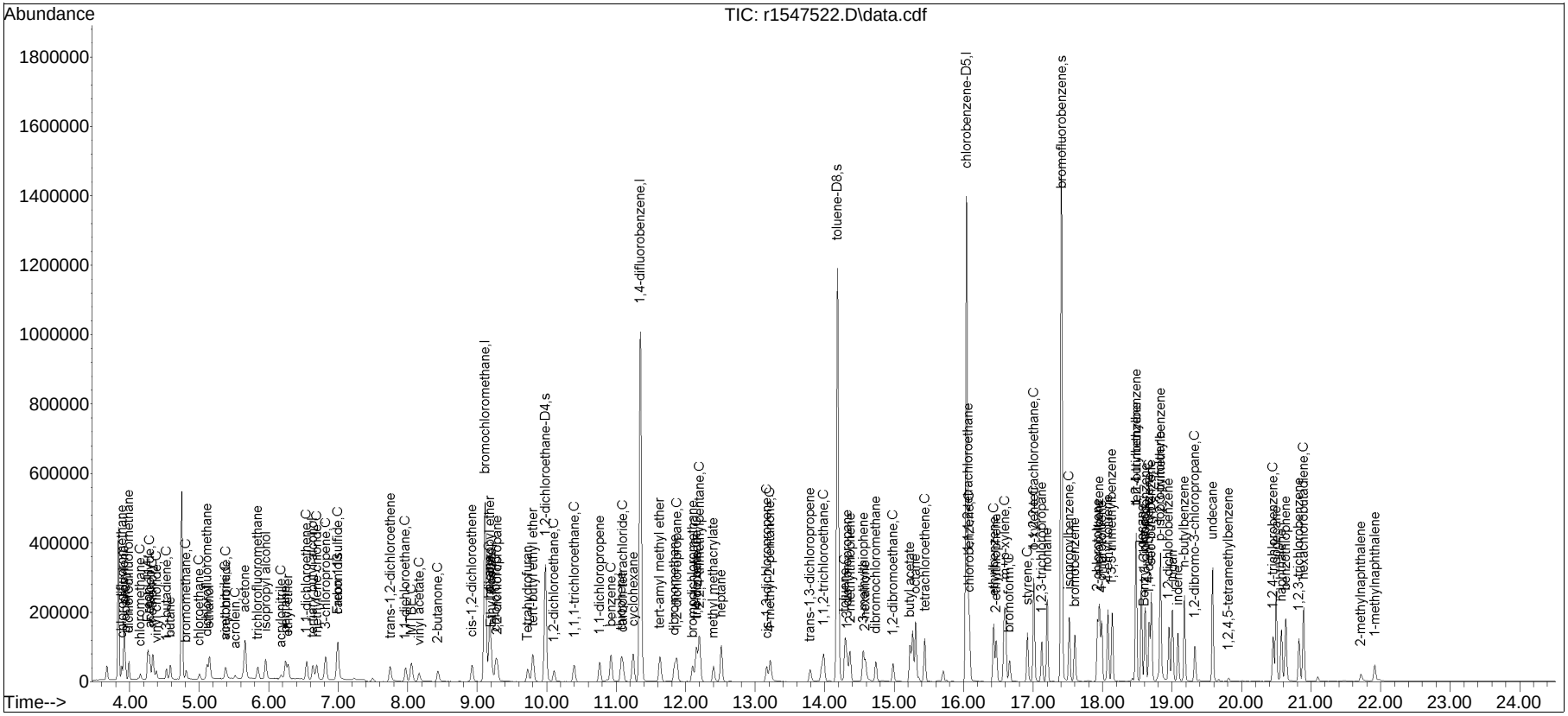
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.083	115	71704	0.988	ppbV	98
111) 1,2-dibromo-3-chloropr...	19.325	75	23247	0.877	ppbV	94
112) undecane	19.583	57	124005	1.119	ppbV	96
113) 1,2,4,5-tetramethylben...	19.808	119	5586	0.987	ppbV	94
114) dodecane	20.500	57	113975	1.134	ppbV	98
115) 1,2,4-trichlorobenzene	20.450	180	48273	1.022	ppbV	98
116) naphthalene	20.575	128	141941	1.046	ppbV	99
117) 1,2,3-trichlorobenzene	20.825	180	46682	1.109	ppbV	96
118) benzothiophene	20.633	134	161575	0.873	ppbV	100
119) hexachlorobutadiene	20.892	225	49771	1.274	ppbV	95
120) 2-methylnaphthalene	21.717	142	21833	0.476	ppbV	96
121) 1-methylnaphthalene	21.917	142	35636	0.551	ppbV	96

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

Sub List : Default - All compounds listed4\04\0426T_I\r1547524.D

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547522.D
Acq On : 26 Apr 2024 11:56 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD1.0
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

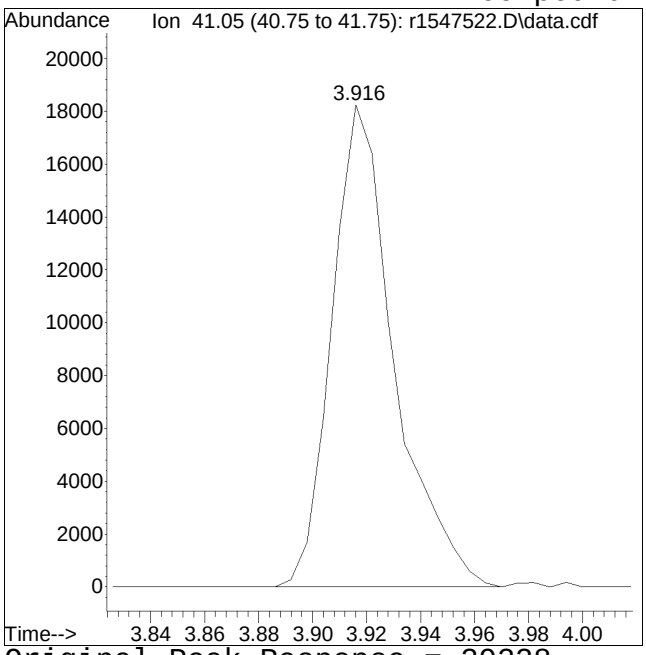
Quant Time: Apr 27 08:54:30 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:53:54 2024
Response via : Initial Calibration



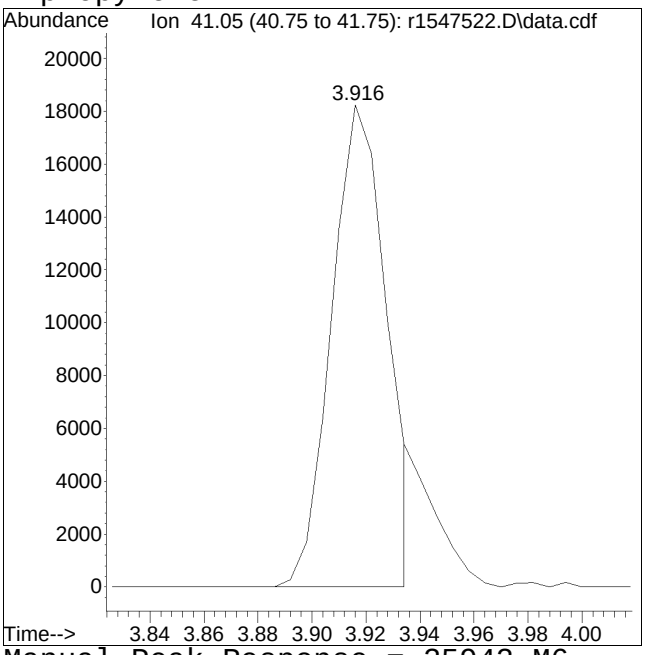
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1547522.D Operator : AIRLAB15:JMB
Date Inj'd : 4/26/2020 0:1: 6 Instrument :
Sample : ITO15-SIMSTD1.0 Quant Date : 4/27/2024 8:54 am

Compound #3: propylene



Original Peak Response = 29228



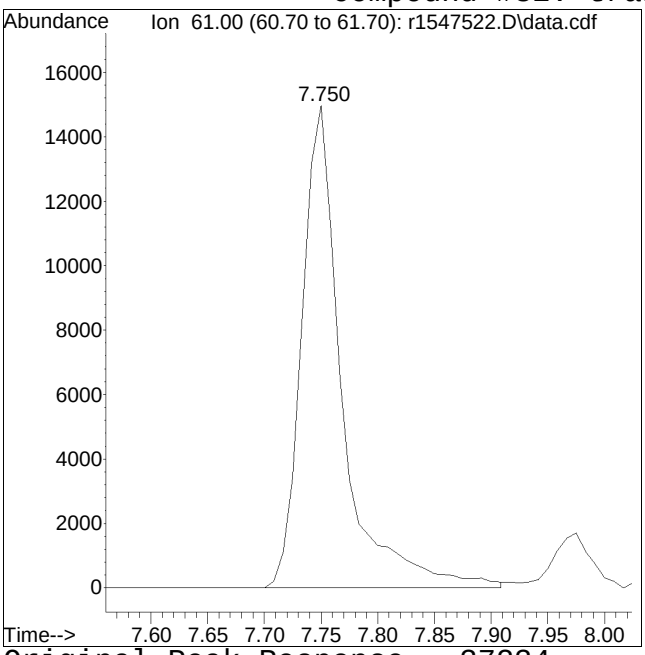
Manual Peak Response = 25942 M6

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

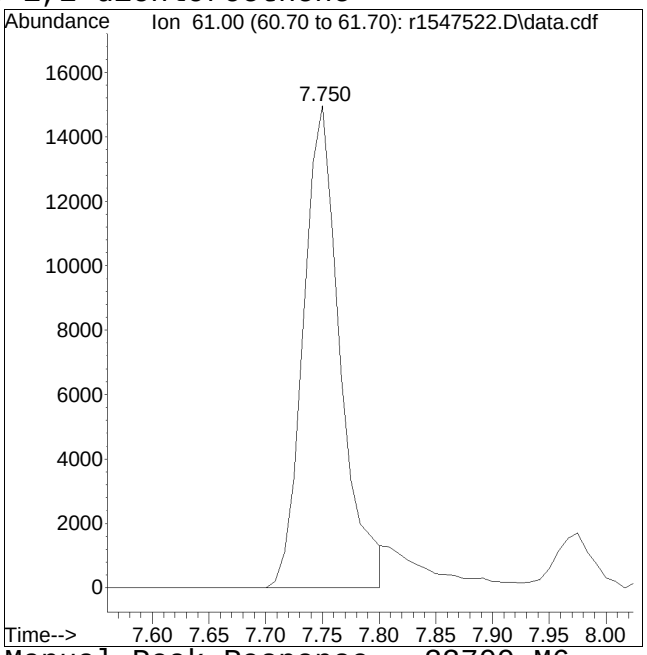
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1547522.D Operator : AIRLAB15:JMB
Date Inj'd : 4/26/2020 0:1: 6 Instrument :
Sample : ITO15-SIMSTD1.0 Quant Date : 4/27/2024 8:54 am

Compound #32: trans-1,2-dichloroethene



Original Peak Response = 37234



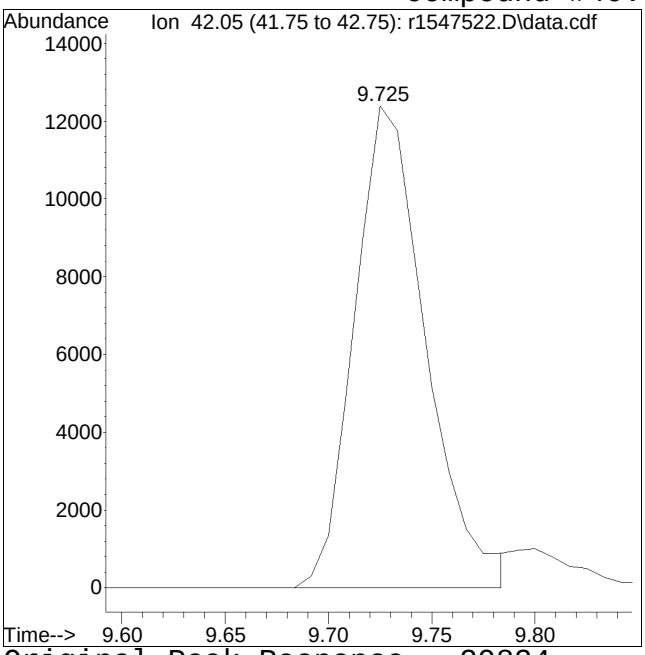
Manual Peak Response = 33700 M6

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

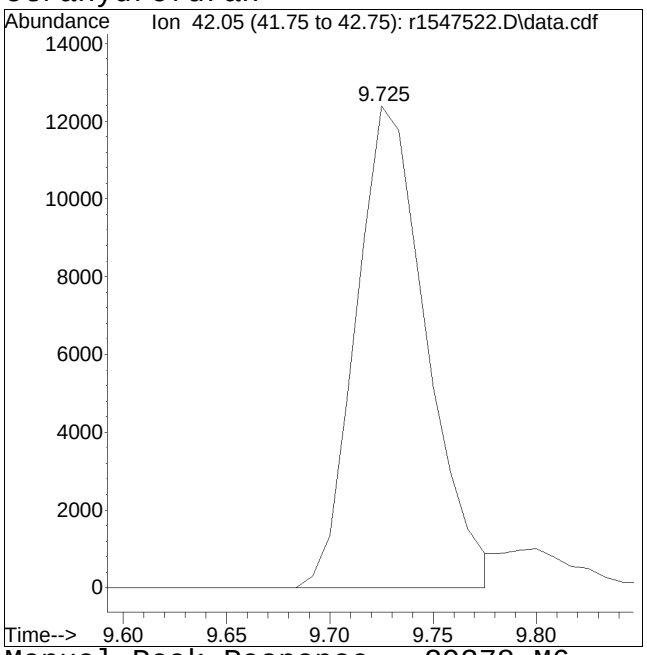
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1547522.D Operator : AIRLAB15:JMB
Date Inj'd : 4/26/2020 0:1: 6 Instrument :
Sample : ITO15-SIMSTD1.0 Quant Date : 4/27/2024 8:54 am

Compound #40: Tetrahydrofuran



Original Peak Response = 29824



Manual Peak Response = 29378 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547523.D
Acq On : 27 Apr 2024 12:38 AM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD5.0
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:54:35 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:53:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426T_I\r1547524.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.117	49	331339	10.000	ppbV	0.00
Standard Area = 336553			Recovery = 98.45%			
43) 1,4-difluorobenzene	11.347	114	1022577	10.000	ppbV	0.00
Standard Area = 1015611			Recovery = 100.69%			
67) chlorobenzene-D5	16.042	54	165554	10.000	ppbV	0.00
Standard Area = 165724			Recovery = 99.90%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.983	65	255965	11.663	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 116.63%			
69) toluene-D8	14.183	98	977641	11.802	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 118.02%			
90) bromofluorobenzene	17.408	95	717243	12.207	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 122.07%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.886	51	183344	5.545	ppbV	99
3) propylene	3.916	41	126327M6	6.981	ppbV	
4) propane	3.940	29	128668	5.368	ppbV	98
5) dichlorodifluoromethane	3.988	85	226777	7.864	ppbV	99
6) chloromethane	4.156	50	81899	4.878	ppbV	99
7) Freon-114	4.264	85	218410	6.648	ppbV	100
8) methanol	4.330	31	214178	21.561	ppbV	97
9) vinyl chloride	4.384	62	126255	7.325	ppbV	99
10) 1,3-butadiene	4.528	54	76330	5.235	ppbV	96
11) butane	4.588	43	166659	6.293	ppbV	98
12) acetaldehyde	4.282	29	190826	19.151	ppbV	93
13) bromomethane	4.810	94	98560	7.729	ppbV	99
14) chloroethane	5.002	64	64603	7.775	ppbV	99
15) ethanol	5.140	31	349308	24.621	ppbV	98
16) dichlorofluoromethane	5.116	67	226975	7.559	ppbV	99
17) vinyl bromide	5.383	106	106223	8.872	ppbV	98
18) acrolein	5.513	56	39038	5.072	ppbV	99
19) acetone	5.653	43	651450	34.473	ppbV	99
20) acetonitrile	5.370	41	108416	6.947	ppbV	97
21) trichlorofluoromethane	5.843	101	180858	9.274	ppbV	96
22) isopropyl alcohol	5.943	45	378643	14.163	ppbV	100
23) acrylonitrile	6.173	53	72652M6	5.071	ppbV	
24) pentane	6.243	43	268755	8.372	ppbV #	94

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547523.D
Acq On : 27 Apr 2024 12:38 AM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD5.0
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:54:35 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:53:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426T_I\r1547524.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.273	31	227600	7.115	ppbV	89
26) 1,1-dichloroethene	6.546	61	220430	8.770	ppbV	99
27) tertiary butyl alcohol	6.618	59	250701	7.626	ppbV	98
28) methylene chloride	6.690	49	145117	5.700	ppbV	98
29) 3-chloropropene	6.822	41	193041	6.918	ppbV	99
30) carbon disulfide	6.996	76	375984	7.386	ppbV	99
31) Freon 113	6.990	101	259060	8.621	ppbV	99
32) trans-1,2-dichloroethene	7.750	61	222241	8.619	ppbV	99
33) 1,1-dichloroethane	7.975	63	284573	8.694	ppbV	100
34) MTBE	8.042	73	304025	6.841	ppbV	100
35) vinyl acetate	8.158	43	265173	6.279	ppbV	100
36) 2-butanone	8.425	43	281341	6.367	ppbV	99
37) cis-1,2-dichloroethene	8.925	61	213235	8.722	ppbV	100
38) Ethyl Acetate	9.200	61	56728	8.328	ppbV	69
39) chloroform	9.267	83	234722	7.665	ppbV	99
40) Tetrahydrofuran	9.708	42	179214	6.492	ppbV	98
41) 2,2-dichloropropane	9.292	77	162898	7.058	ppbV	98
42) 1,2-dichloroethane	10.108	62	160738	8.959	ppbV	100
44) hexane	9.183	57	281312	5.986	ppbV	86
45) diisopropyl ether	9.175	87	130938	5.899	ppbV	95
46) tert-butyl ethyl ether	9.792	59	470398	5.990	ppbV	100
48) 1,1,1-trichloroethane	10.392	97	210266	6.866	ppbV	99
49) 1,1-dichloropropene	10.760	75	192255	5.256	ppbV	98
50) benzene	10.927	78	474703	5.273	ppbV	100
51) thiophene	11.073	84	289797	5.769	ppbV	98
52) carbon tetrachloride	11.100	117	175364	6.379	ppbV	99
53) cyclohexane	11.247	56	294682	5.742	ppbV	99
54) tert-amyl methyl ether	11.620	73	364900	4.998	ppbV	100
55) dibromomethane	11.840	93	154722	6.769	ppbV	96
56) 1,2-dichloropropane	11.873	63	198601	6.420	ppbV	98
57) bromodichloromethane	12.100	83	232232	5.934	ppbV	99
58) 1,4-dioxane	12.147	88	111571	6.207	ppbV	99
59) trichloroethene	12.153	130	206135	6.704	ppbV	100
60) 2,2,4-trimethylpentane	12.200	57	939037	6.125	ppbV	100
61) methyl methacrylate	12.393	41	175880	5.179	ppbV	100
62) heptane	12.513	43	304379	4.866	ppbV	99
63) cis-1,3-dichloropropene	13.167	75	223688	5.256	ppbV	99
64) 4-methyl-2-pentanone	13.208	43	341898	4.733	ppbV	98
65) trans-1,3-dichloropropene	13.792	75	172204	5.276	ppbV	97
66) 1,1,2-trichloroethane	13.983	97	200344	6.710	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547523.D
Acq On : 27 Apr 2024 12:38 AM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD5.0
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:54:35 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:53:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426T_I\r1547524.D
Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	toluene	14.292	91	620995	6.908	ppbV	98
70)	2-methylthiophene	14.367	97	441669	6.948	ppbV	99
71)	1,3-dichloropropane	14.325	76	247454	5.575	ppbV	98
72)	2-hexanone	14.575	43	309534	5.121	ppbV	98
73)	3-methylthiophene	14.558	97	470053	6.962	ppbV	97
74)	dibromochloromethane	14.733	129	243937	7.513	ppbV	99
75)	1,2-dibromoethane	14.983	107	271719	6.527	ppbV	99
76)	butyl acetate	15.217	73	61696	5.345	ppbV	95
77)	octane	15.308	85	221249	6.308	ppbV	98
78)	tetrachloroethene	15.442	166	239598	7.118	ppbV	96
79)	1,1,1,2-tetrachloroethane	16.067	131	198382	6.994	ppbV	99
80)	chlorobenzene	16.083	112	456279	6.258	ppbV	98
81)	ethylbenzene	16.433	91	812248	6.899	ppbV	100
82)	2-ethylthiophene	16.467	97	514958	6.709	ppbV	99
83)	m+p-xylene	16.592	91	1306446	14.176	ppbV	100
84)	bromoform	16.658	173	218157	7.821	ppbV	95
85)	styrene	16.917	104	495336	6.359	ppbV	99
86)	1,1,2,2-tetrachloroethane	17.008	83	445589	6.386	ppbV	98
87)	o-xylene	17.008	91	653028	6.994	ppbV	100
88)	1,2,3-trichloropropane	17.125	75	317440	5.600	ppbV	98
89)	nonane	17.200	43	480908	4.918	ppbV	98
91)	isopropylbenzene	17.517	105	783327	6.291	ppbV	97
92)	bromobenzene	17.600	77	415262	5.656	ppbV	100
93)	2-chlorotoluene	17.925	126	235709	6.972	ppbV	96
94)	n-propylbenzene	17.950	120	264606	6.709	ppbV	95
95)	4-chlorotoluene	17.983	126	225931	6.829	ppbV	96
96)	4-ethyl toluene	18.075	105	842661	6.336	ppbV	99
97)	1,3,5-trimethylbenzene	18.133	105	811558	6.376	ppbV	98
98)	tert-butylbenzene	18.475	119	727123	6.792	ppbV	99
99)	1,2,4-trimethylbenzene	18.483	105	729536	6.644	ppbV	98
100)	decane	18.558	57	679438	6.729	ppbV	98
101)	Benzyl Chloride	18.600	91	401444	6.314	ppbV	98
102)	1,3-dichlorobenzene	18.608	146	489810	6.943	ppbV	96
103)	1,4-dichlorobenzene	18.667	146	484939	6.792	ppbV	97
104)	sec-butylbenzene	18.700	105	1016993	6.352	ppbV	100
105)	1,2,3-trimethylbenzene	18.833	105	597520	6.781	ppbV	99
106)	p-isopropyltoluene	18.825	119	789320	6.602	ppbV	99
107)	1,2-dichlorobenzene	18.950	146	449967	6.602	ppbV	98
108)	n-butylbenzene	19.175	91	835153	6.946	ppbV	98
109)	indan	19.000	117	682854	6.409	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547523.D
Acq On : 27 Apr 2024 12:38 AM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD5.0
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:54:35 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:53:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426T_I\r1547524.D
Sub List : Default - All compounds listed

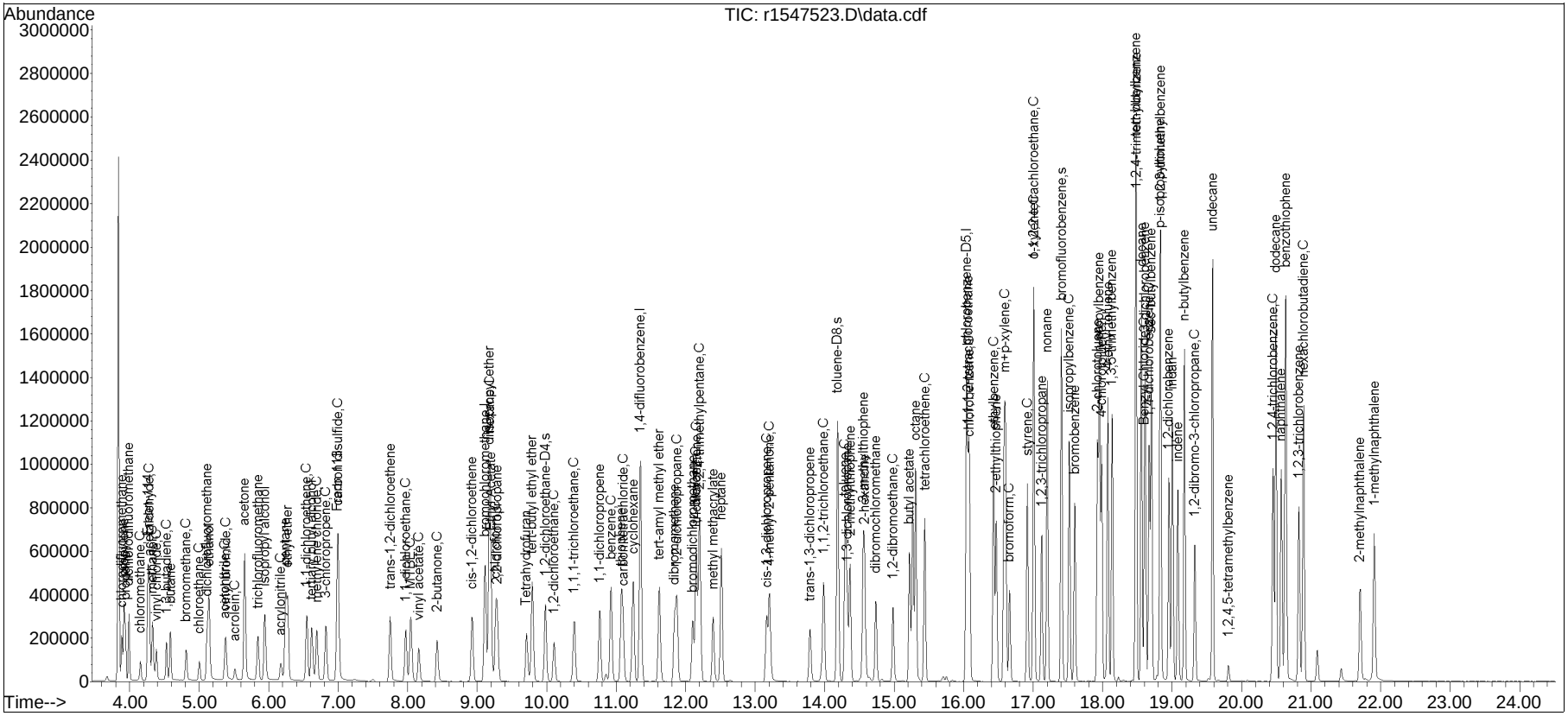
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.083	115	453504	6.325	ppbV	97
111) 1,2-dibromo-3-chloropr...	19.325	75	151960	5.804	ppbV	99
112) undecane	19.583	57	737861	6.742	ppbV	99
113) 1,2,4,5-tetramethylben...	19.808	119	38460	6.884	ppbV	98
114) dodecane	20.492	57	686296	6.912	ppbV	99
115) 1,2,4-trichlorobenzene	20.450	180	358415	7.683	ppbV	98
116) naphthalene	20.567	128	917110	6.842	ppbV	99
117) 1,2,3-trichlorobenzene	20.825	180	306235	7.370	ppbV	99
118) benzothiophene	20.633	134	1589134	8.693	ppbV	99
119) hexachlorobutadiene	20.892	225	305867	7.932	ppbV	99
120) 2-methylnaphthalene	21.700	142	308399	6.804	ppbV	99
121) 1-methylnaphthalene	21.908	142	457946	7.176	ppbV	99

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

Sub List : Default - All compounds listed4\04\0426T_I\r1547524.D

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547523.D
Acq On : 27 Apr 2024 12:38 AM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD5.0
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:54:35 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:53:54 2024
Response via : Initial Calibration

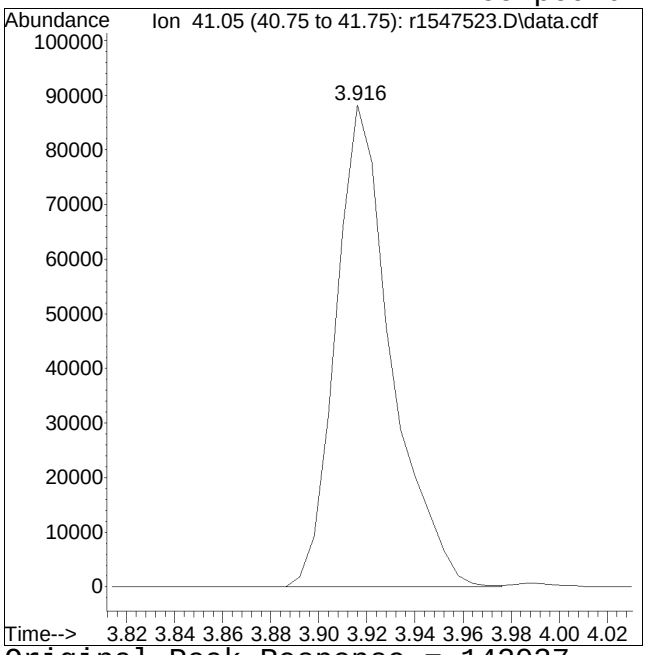


Manual Integration Report

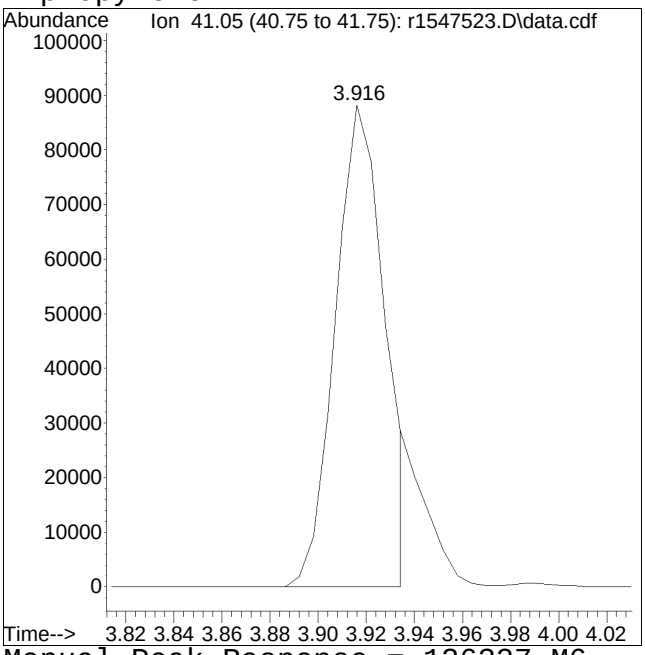
Data Path : O:\Forensics\Data\Airlab15\
Data File : r1547523.D
Date Inj'd : 4/27/2020 0:2: 8
Sample : ITO15-SIMSTD5.0

Method : TFS15_240426.M
Operator : AIRLAB15:JMB
Instrument :
Quant Date : 4/27/2024 8:54 am

Compound #3: propylene



Original Peak Response = 142037



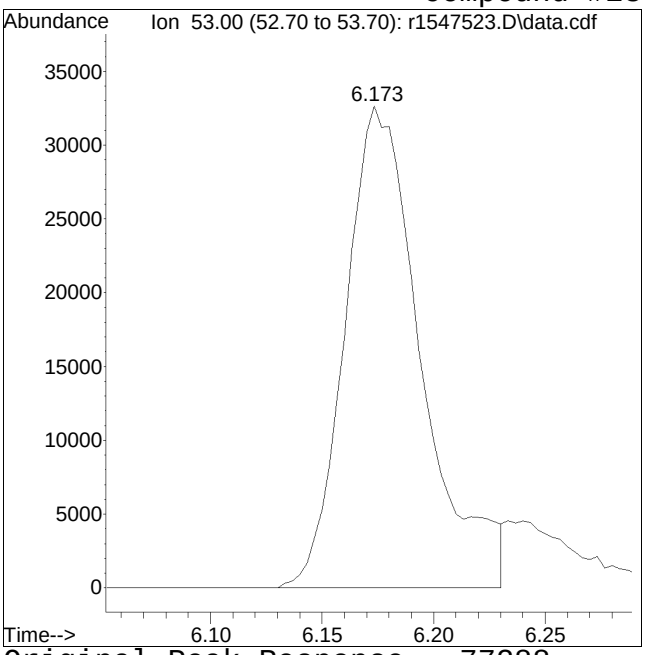
Manual Peak Response = 126327 M6

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

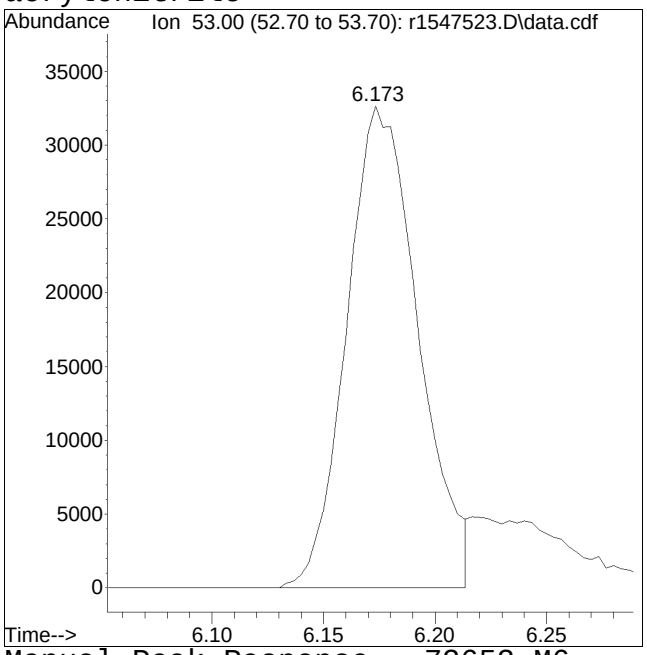
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1547523.D Operator : AIRLAB15:JMB
Date Inj'd : 4/27/2020 0:2: 8 Instrument :
Sample : ITO15-SIMSTD5.0 Quant Date : 4/27/2024 8:54 am

Compound #23: acrylonitrile



Original Peak Response = 77288



Manual Peak Response = 72652 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547524.D
Acq On : 27 Apr 2024 1:22 AM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD010
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:51:56 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Apr 10 15:14:26 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426T_I\r1547524.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.117	49	336553	10.000	ppbV	#-0.03
Standard Area = 336553			Recovery = 100.00%			
43) 1,4-difluorobenzene	11.347	114	1015611	10.000	ppbV	-0.04
Standard Area = 1015611			Recovery = 100.00%			
67) chlorobenzene-D5	16.042	54	165724	10.000	ppbV	-0.02
Standard Area = 165724			Recovery = 100.00%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.983	65	260329	12.228	ppbV	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 122.28%			
69) toluene-D8	14.183	98	998410	12.372	ppbV	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 123.72%			
90) bromofluorobenzene	17.408	95	690923	12.061	ppbV	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 120.61%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.886	51	361922	10.822	ppbV #	88
3) propylene	3.916	41	256626M6	14.720	ppbV	
4) propane	3.940	29	240307	9.617	ppbV #	82
5) dichlorodifluoromethane	3.988	85	416078	14.740	ppbV	100
6) chloromethane	4.150	50	160336	9.094	ppbV	98
7) Freon-114	4.258	85	421994	12.777	ppbV #	82
8) methanol	4.324	31	405618	37.888	ppbV	90
9) vinyl chloride	4.384	62	249999	14.798	ppbV	96
10) 1,3-butadiene	4.528	54	147437	9.712	ppbV #	53
11) butane	4.582	43	337129	12.688	ppbV	95
12) acetaldehyde	4.276	29	365310	33.410	ppbV #	40
13) bromomethane	4.810	94	192633	15.567	ppbV	94
14) chloroethane	5.002	64	130122	16.330	ppbV	96
15) ethanol	5.134	31	687898	46.036	ppbV #	78
16) dichlorofluoromethane	5.110	67	450656	15.743	ppbV #	97
17) vinyl bromide	5.383	106	215935	19.355	ppbV	100
18) acrolein	5.510	56	83753	10.486	ppbV #	87
19) acetone	5.647	43	1315764	70.559	ppbV #	86
20) acetonitrile	5.363	41	221693	14.424	ppbV	99
21) trichlorofluoromethane	5.843	101	361413	20.104	ppbV	97
22) isopropyl alcohol	5.933	45	783293	28.865	ppbV	99
23) acrylonitrile	6.170	53	143700	9.606	ppbV	98
24) pentane	6.240	43	415404	12.940	ppbV #	94

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547524.D
Acq On : 27 Apr 2024 1:22 AM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD010
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:51:56 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Apr 10 15:14:26 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426T_I\r1547524.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	6.270	31	271628	7.986	ppbV	#	70
26) 1,1-dichloroethene	6.546	61	450075	19.221	ppbV		98
27) tertiary butyl alcohol	6.606	59	528776	17.043	ppbV	#	96
28) methylene chloride	6.690	49	300294	11.555	ppbV	#	74
29) 3-chloropropene	6.822	41	401567	14.653	ppbV		95
30) carbon disulfide	6.996	76	776570	15.576	ppbV		96
31) Freon 113	6.990	101	527511	18.740	ppbV		96
32) trans-1,2-dichloroethene	7.750	61	465958	19.426	ppbV		99
33) 1,1-dichloroethane	7.975	63	582030	19.042	ppbV		97
34) MTBE	8.042	73	637930	14.571	ppbV		95
35) vinyl acetate	8.158	43	563485	13.357	ppbV	#	94
36) 2-butanone	8.417	43	592718	13.465	ppbV	#	92
37) cis-1,2-dichloroethene	8.925	61	445781	19.606	ppbV		100
38) Ethyl Acetate	9.192	61	118549	18.794	ppbV	#	50
39) chloroform	9.267	83	477305	16.131	ppbV	#	92
40) Tetrahydrofuran	9.708	42	379072	13.845	ppbV		93
41) 2,2-dichloropropane	9.292	77	338619	14.966	ppbV	#	90
42) 1,2-dichloroethane	10.108	62	328233	19.792	ppbV	#	83
44) hexane	9.175	57	571987	12.306	ppbV	#	62
45) diisopropyl ether	9.175	87	266888	12.137	ppbV	#	45
46) tert-butyl ethyl ether	9.792	59	963531	12.401	ppbV		97
48) 1,1,1-trichloroethane	10.392	97	433051	14.666	ppbV		97
49) 1,1-dichloropropene	10.760	75	397457	10.737	ppbV		90
50) benzene	10.927	78	976992	10.717	ppbV		97
51) thiophene	11.073	84	594596	11.874	ppbV	#	89
52) carbon tetrachloride	11.100	117	357934	13.257	ppbV		98
53) cyclohexane	11.247	56	602464	11.807	ppbV		96
54) tert-amyl methyl ether	11.620	73	760843	10.224	ppbV		93
55) dibromomethane	11.840	93	315858	14.274	ppbV		94
56) 1,2-dichloropropane	11.873	63	411838	13.647	ppbV		96
57) bromodichloromethane	12.100	83	484634	12.445	ppbV		95
58) 1,4-dioxane	12.140	88	233130	13.188	ppbV		96
59) trichloroethene	12.153	130	424926	14.257	ppbV		99
60) 2,2,4-trimethylpentane	12.200	57	1913953	12.644	ppbV		93
61) methyl methacrylate	12.393	41	376653	10.944	ppbV	#	88
62) heptane	12.513	43	624025	9.738	ppbV	#	79
63) cis-1,3-dichloropropene	13.167	75	478743	11.078	ppbV		94
64) 4-methyl-2-pentanone	13.200	43	707353	9.486	ppbV	#	79
65) trans-1,3-dichloropropene	13.792	75	366474	11.040	ppbV		95
66) 1,1,2-trichloroethane	13.983	97	408260	14.066	ppbV		90

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547524.D
Acq On : 27 Apr 2024 1:22 AM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD010
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:51:56 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Apr 10 15:14:26 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426T_I\r1547524.D
Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68)	toluene	14.300	91	1269287	14.496	ppbV		99
70)	2-methylthiophene	14.367	97	910428	14.732	ppbV	#	97
71)	1,3-dichloropropane	14.325	76	510302	11.349	ppbV	#	98
72)	2-hexanone	14.575	43	655191	10.498	ppbV	#	80
73)	3-methylthiophene	14.558	97	970929	14.811	ppbV	#	95
74)	dibromochloromethane	14.742	129	512458	16.389	ppbV		99
75)	1,2-dibromoethane	14.983	107	555821	13.461	ppbV		97
76)	butyl acetate	15.217	73	131996	11.228	ppbV		78
77)	octane	15.308	85	449590	12.958	ppbV	#	73
78)	tetrachloroethene	15.442	166	495770	15.238	ppbV		100
79)	1,1,1,2-tetrachloroethane	16.067	131	413186	15.020	ppbV		99
80)	chlorobenzene	16.083	112	935788	12.892	ppbV		93
81)	ethylbenzene	16.433	91	1671110	14.558	ppbV		91
82)	2-ethylthiophene	16.467	97	1066553	14.197	ppbV	#	93
83)	m+p-xylene	16.592	91	2634869	29.373	ppbV		90
84)	bromoform	16.658	173	459172	17.164	ppbV		98
85)	styrene	16.917	104	1028841	13.293	ppbV		96
86)	1,1,2,2-tetrachloroethane	17.008	83	902716	12.977	ppbV		94
87)	o-xylene	17.008	91	1329347	14.626	ppbV		91
88)	1,2,3-trichloropropane	17.125	75	645289	11.212	ppbV		96
89)	nonane	17.208	43	975302	9.646	ppbV	#	67
91)	isopropylbenzene	17.525	105	1591217	12.841	ppbV		97
92)	bromobenzene	17.600	77	844705	11.383	ppbV	#	81
93)	2-chlorotoluene	17.925	126	473368	14.371	ppbV		95
94)	n-propylbenzene	17.950	120	539618	13.965	ppbV		95
95)	4-chlorotoluene	17.983	126	463406	14.362	ppbV		98
96)	4-ethyl toluene	18.075	105	1742345	13.230	ppbV		98
97)	1,3,5-trimethylbenzene	18.142	105	1626521	12.886	ppbV		98
98)	tert-butylbenzene	18.483	119	1466609	13.941	ppbV		98
99)	1,2,4-trimethylbenzene	18.483	105	1477331	13.649	ppbV		95
100)	decane	18.558	57	1353748	13.631	ppbV	#	73
101)	Benzyl Chloride	18.600	91	917193	14.590	ppbV		97
102)	1,3-dichlorobenzene	18.617	146	1018844	14.768	ppbV		94
103)	1,4-dichlorobenzene	18.667	146	1019726M3	14.642	ppbV		
104)	sec-butylbenzene	18.700	105	2111655	13.357	ppbV		95
105)	1,2,3-trimethylbenzene	18.833	105	1233311	14.482	ppbV		95
106)	p-isopropyltoluene	18.833	119	1635043	13.998	ppbV		94
107)	1,2-dichlorobenzene	18.950	146	967351	14.481	ppbV	#	92
108)	n-butylbenzene	19.175	91	1689663	14.412	ppbV		93
109)	indan	19.008	117	1412190	13.423	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547524.D
Acq On : 27 Apr 2024 1:22 AM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD010
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:51:56 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Apr 10 15:14:26 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426T_I\r1547524.D
Sub List : Default - All compounds listed

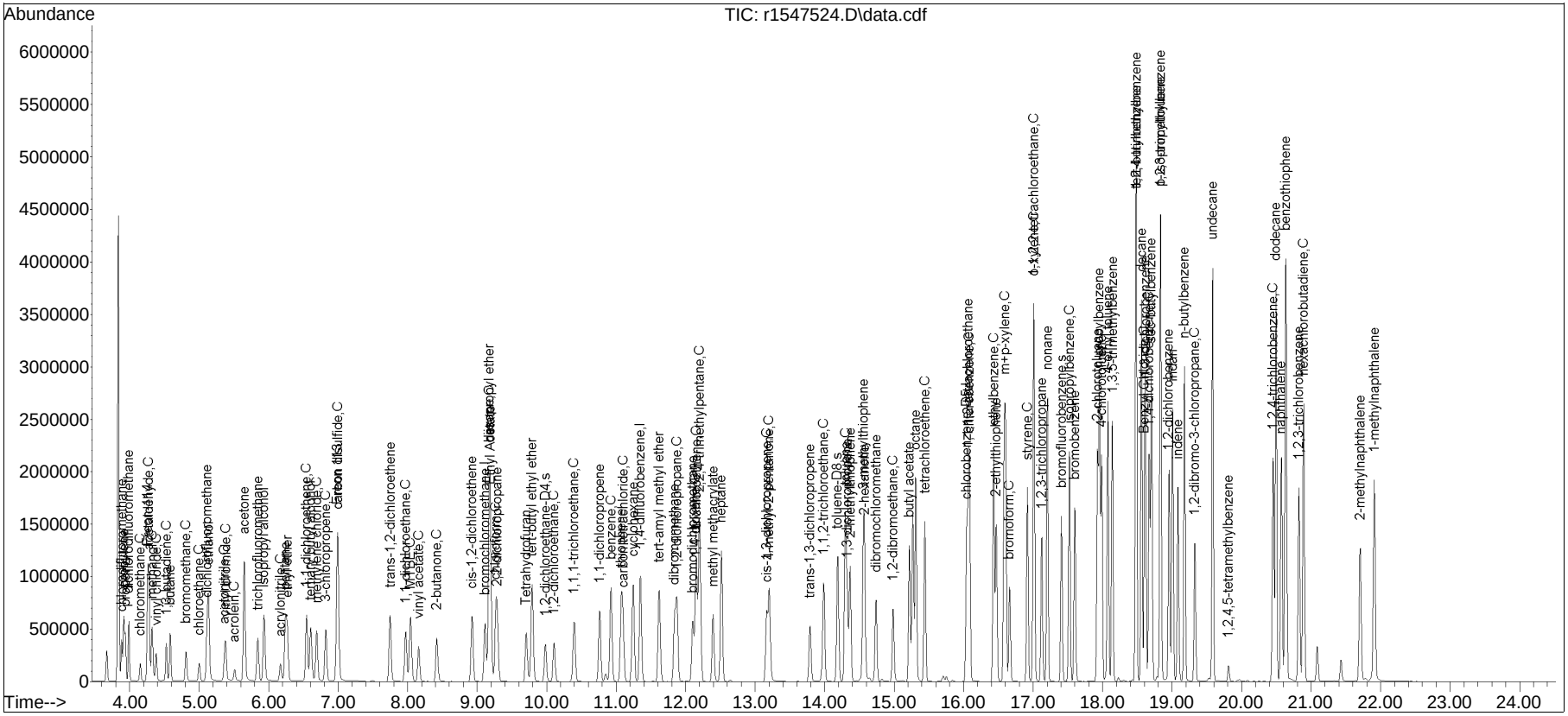
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.083	115	935461	13.148	ppbV	96
111) 1,2-dibromo-3-chloropr...	19.325	75	325848	12.305	ppbV	88
112) undecane	19.583	57	1485657	13.798	ppbV #	82
113) 1,2,4,5-tetramethylben...	19.808	119	82740	14.945	ppbV	92
114) dodecane	20.492	57	1509689	15.483	ppbV #	75
115) 1,2,4-trichlorobenzene	20.450	180	795611	17.821	ppbV	94
116) naphthalene	20.567	128	2031167	15.623	ppbV	97
117) 1,2,3-trichlorobenzene	20.825	180	682412	17.134	ppbV	92
118) benzothiophene	20.633	134	3588983	20.626	ppbV	97
119) hexachlorobutadiene	20.892	225	640405	17.490	ppbV	92
120) 2-methylnaphthalene	21.708	142	900823	21.030	ppbV	99
121) 1-methylnaphthalene	21.908	142	1283276	21.450	ppbV	98

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

Sub List : Default - All compounds listed4\04\0426T_I\r1547524.D

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547524.D
Acq On : 27 Apr 2024 1:22 AM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD010
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

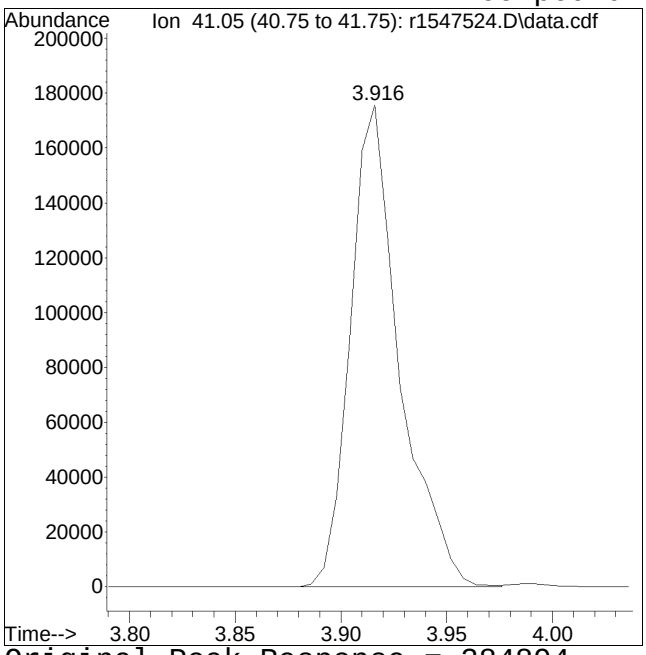
Quant Time: Apr 27 08:51:56 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Apr 10 15:14:26 2024
Response via : Initial Calibration



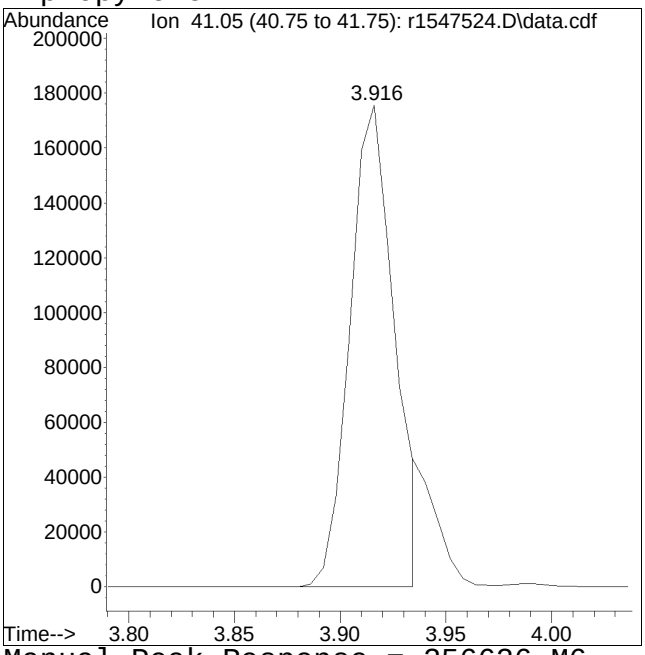
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1547524.D Operator : AIRLAB15:JMB
Date Inj'd : 4/27/2020 0:1: 2 Instrument :
Sample : ITO15-SIMSTD010 Quant Date : 4/27/2024 8:51 am

Compound #3: propylene



Original Peak Response = 284894



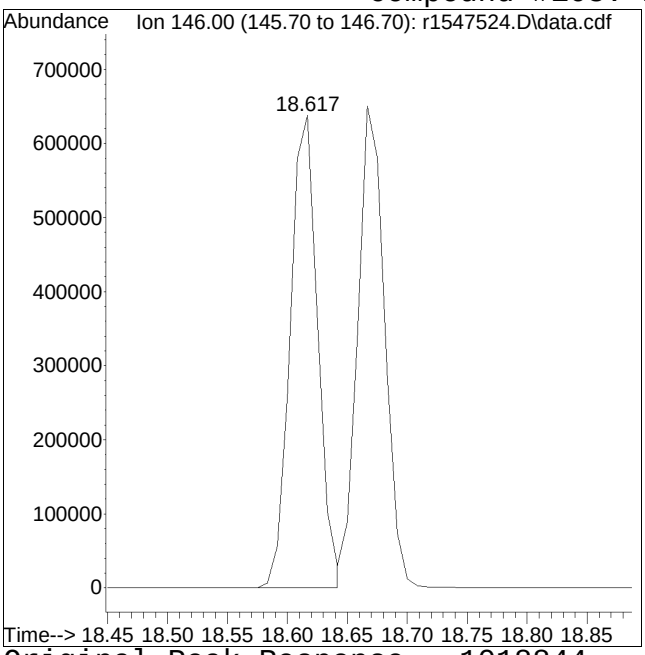
Manual Peak Response = 256626 M6

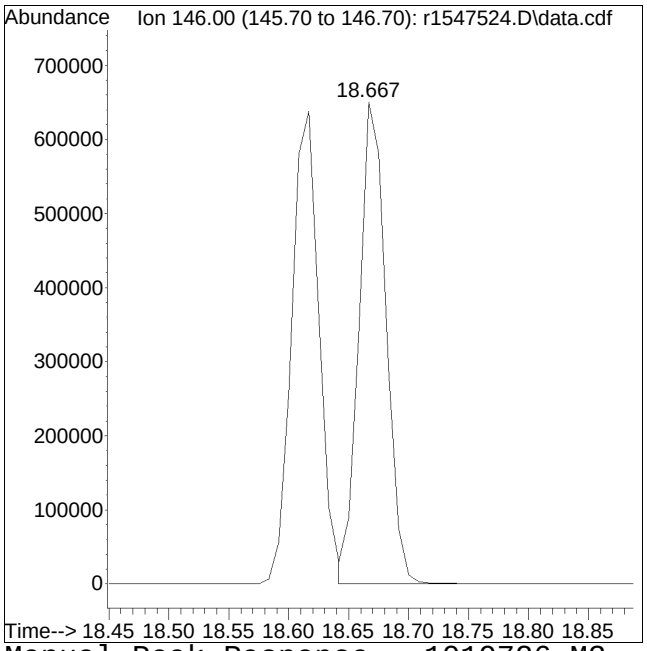
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1547524.D Operator : AIRLAB15:JMB
Date Inj'd : 4/27/2020 0:1: 2 Instrument :
Sample : ITO15-SIMSTD010 Quant Date : 4/27/2024 8:51 am

Compound #103: 1,4-dichlorobenzene





Original Peak Response = 1018844 Manual Peak Response = 1019726 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\2024\04\0426T_I\
Data File : r1547525.D
Acq On : 27 Apr 2024 2:02 AM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD020
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:54:40 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:53:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426T_I\r1547524.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.117	49	328631	10.000	ppbV	0.00
Standard Area = 336553			Recovery = 97.65%			
43) 1,4-difluorobenzene	11.353	114	1042534	10.000	ppbV	0.00
Standard Area = 1015611			Recovery = 102.65%			
67) chlorobenzene-D5	16.042	54	157336	10.000	ppbV	0.00
Standard Area = 165724			Recovery = 94.94%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.983	65	249304	11.142	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 111.42%			
69) toluene-D8	14.183	98	992510	12.607	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 126.07%			
90) bromofluorobenzene	17.408	95	681991	12.213	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 122.13%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.892	51	481983	14.697	ppbV	100
3) propylene	3.916	41	340166M6	18.954	ppbV	
4) propane	3.940	29	316688	13.321	ppbV	93
5) dichlorodifluoromethane	3.994	85	553829	19.363	ppbV	99
6) chloromethane	4.156	50	215707	12.952	ppbV	100
7) Freon-114	4.264	85	559088	17.159	ppbV	98
8) methanol	4.330	31	512916	52.060	ppbV	99
9) vinyl chloride	4.390	62	327403	19.153	ppbV	100
10) 1,3-butadiene	4.534	54	195182	13.498	ppbV	98
11) butane	4.588	43	471172	17.937	ppbV	99
12) acetaldehyde	4.282	29	479545	48.522	ppbV	95
13) bromomethane	4.816	94	254687	20.138	ppbV	98
14) chloroethane	5.008	64	169379	20.554	ppbV	99
15) ethanol	5.140	31	874234	62.129	ppbV	93
16) dichlorofluoromethane	5.116	67	596772	20.037	ppbV	99
17) vinyl bromide	5.387	106	294525	24.801	ppbV	99
18) acrolein	5.513	56	111305	14.580	ppbV	97
19) acetone	5.653	43	1761883	94.001	ppbV	98
20) acetonitrile	5.370	41	304159	19.651	ppbV	100
21) trichlorofluoromethane	5.847	101	463879	23.984	ppbV	98
22) isopropyl alcohol	5.937	45	1093531	41.240	ppbV	99
23) acrylonitrile	6.173	53	190887	13.432	ppbV	98
24) pentane	6.247	43	572702	17.986	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547525.D
Acq On : 27 Apr 2024 2:02 AM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD020
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:54:40 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:53:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426T_I\r1547524.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.273	31	355306	11.199	ppbV	97
26) 1,1-dichloroethene	6.552	61	605178	24.275	ppbV	99
27) tertiary butyl alcohol	6.606	59	733325	22.490	ppbV	99
28) methylene chloride	6.696	49	394755	15.634	ppbV	98
29) 3-chloropropene	6.828	41	563365	20.355	ppbV	98
30) carbon disulfide	6.996	76	1081024	21.410	ppbV	99
31) Freon 113	6.996	101	735405	24.673	ppbV	99
32) trans-1,2-dichloroethene	7.750	61	635156	24.837	ppbV	99
33) 1,1-dichloroethane	7.975	63	795162	24.493	ppbV	98
34) MTBE	8.042	73	873165	19.809	ppbV	99
35) vinyl acetate	8.158	43	795870	18.999	ppbV	100
36) 2-butanone	8.417	43	824812	18.820	ppbV	100
37) cis-1,2-dichloroethene	8.933	61	596181	24.586	ppbV	97
38) Ethyl Acetate	9.200	61	164043	24.282	ppbV	72
39) chloroform	9.267	83	625312	20.588	ppbV	98
40) Tetrahydrofuran	9.708	42	527574	19.269	ppbV	98
41) 2,2-dichloropropane	9.292	77	458633	20.035	ppbV	98
42) 1,2-dichloroethane	10.108	62	429023	24.110	ppbV	98
44) hexane	9.183	57	756236	15.783	ppbV	79
45) diisopropyl ether	9.175	87	364474	16.106	ppbV	99
46) tert-butyl ethyl ether	9.792	59	1305087	16.300	ppbV	99
48) 1,1,1-trichloroethane	10.400	97	582611	18.661	ppbV	98
49) 1,1-dichloropropene	10.767	75	552785	14.822	ppbV	98
50) benzene	10.927	78	1322690	14.412	ppbV	98
51) thiophene	11.073	84	805413	15.728	ppbV	97
52) carbon tetrachloride	11.100	117	479978	17.124	ppbV	96
53) cyclohexane	11.247	56	807971	15.443	ppbV	98
54) tert-amyl methyl ether	11.620	73	1060770	14.250	ppbV	99
55) dibromomethane	11.840	93	431940	18.534	ppbV	96
56) 1,2-dichloropropane	11.873	63	559590	17.744	ppbV	99
57) bromodichloromethane	12.100	83	647290	16.222	ppbV	100
58) 1,4-dioxane	12.140	88	318096	17.357	ppbV	97
59) trichloroethene	12.153	130	572937	18.275	ppbV	100
60) 2,2,4-trimethylpentane	12.200	57	2541334	16.259	ppbV	99
61) methyl methacrylate	12.393	41	523446	15.118	ppbV	98
62) heptane	12.513	43	855644	13.418	ppbV	97
63) cis-1,3-dichloropropene	13.167	75	657098	15.145	ppbV	99
64) 4-methyl-2-pentanone	13.200	43	986005	13.390	ppbV	97
65) trans-1,3-dichloropropene	13.783	75	507554	15.254	ppbV	95
66) 1,1,2-trichloroethane	13.983	97	554735	18.223	ppbV	96

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547525.D
Acq On : 27 Apr 2024 2:02 AM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD020
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:54:40 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:53:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426T_I\r1547524.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.292	91	1708989	20.003	ppbV	100
70) 2-methylthiophene	14.367	97	1256768	20.804	ppbV	100
71) 1,3-dichloropropane	14.325	76	693958	16.452	ppbV	98
72) 2-hexanone	14.575	43	893552	15.554	ppbV	99
73) 3-methylthiophene	14.558	97	1347814	21.004	ppbV	97
74) dibromochloromethane	14.733	129	703517	22.798	ppbV	99
75) 1,2-dibromoethane	14.983	107	772202	19.519	ppbV	99
76) butyl acetate	15.217	73	184378	16.806	ppbV	95
77) octane	15.308	85	608011	18.240	ppbV	97
78) tetrachloroethene	15.442	166	666724	20.841	ppbV	98
79) 1,1,1,2-tetrachloroethane	16.067	131	563033	20.887	ppbV	98
80) chlorobenzene	16.083	112	1275744	18.410	ppbV	99
81) ethylbenzene	16.433	91	2245169	20.065	ppbV	98
82) 2-ethylthiophene	16.467	97	1457239	19.977	ppbV	100
83) m+p-xylene	16.592	91	3507203	40.045	ppbV	99
84) bromoform	16.658	173	645904	24.365	ppbV	95
85) styrene	16.917	104	1428979	19.303	ppbV	99
86) 1,1,2,2-tetrachloroethane	17.008	83	1182150	17.828	ppbV	97
87) o-xylene	17.008	91	1739107	19.599	ppbV	98
88) 1,2,3-trichloropropane	17.125	75	886711	16.461	ppbV	99
89) nonane	17.208	43	1331561	14.329	ppbV	97
91) isopropylbenzene	17.525	105	2220924	18.768	ppbV	99
92) bromobenzene	17.600	77	1158448	16.603	ppbV	100
93) 2-chlorotoluene	17.925	126	652772	20.317	ppbV	95
94) n-propylbenzene	17.950	120	729953	19.474	ppbV	96
95) 4-chlorotoluene	17.983	126	627965	19.973	ppbV	96
96) 4-ethyl toluene	18.075	105	2369117	18.745	ppbV	99
97) 1,3,5-trimethylbenzene	18.142	105	2206686	18.242	ppbV	97
98) tert-butylbenzene	18.483	119	1930314	18.972	ppbV	99
99) 1,2,4-trimethylbenzene	18.483	105	1942372	18.612	ppbV	98
100) decane	18.558	57	1801256	18.771	ppbV	99
101) Benzyl Chloride	18.600	91	1312743	21.727	ppbV	100
102) 1,3-dichlorobenzene	18.617	146	1364613	20.353	ppbV	99
103) 1,4-dichlorobenzene	18.667	146	1367970	20.160	ppbV	98
104) sec-butylbenzene	18.700	105	2873442	18.884	ppbV	99
105) 1,2,3-trimethylbenzene	18.833	105	1736403	20.734	ppbV	100
106) p-isopropyltoluene	18.833	119	2254558	19.844	ppbV	99
107) 1,2-dichlorobenzene	18.950	146	1286234	19.859	ppbV	100
108) n-butylbenzene	19.175	91	2282308	19.973	ppbV	98
109) indan	19.008	117	1903942	18.803	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547525.D
Acq On : 27 Apr 2024 2:02 AM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD020
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:54:40 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:53:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426T_I\r1547524.D
Sub List : Default - All compounds listed

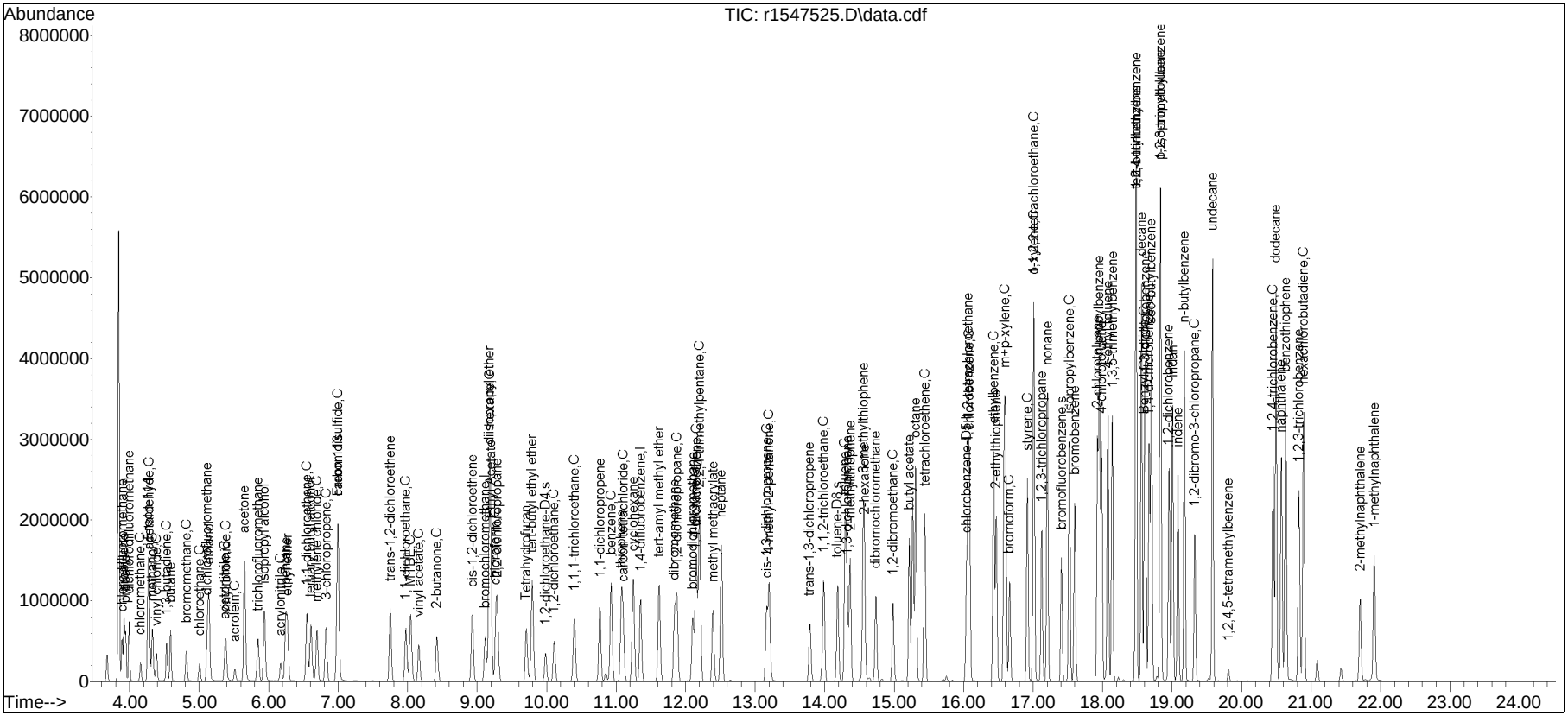
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.083	115	1297582	19.042	ppbV	98
111) 1,2-dibromo-3-chloropr...	19.325	75	446515	17.946	ppbV	98
112) undecane	19.583	57	1957316	18.819	ppbV	97
113) 1,2,4,5-tetramethylben...	19.808	119	81972	15.439	ppbV	97
114) dodecane	20.492	57	1903315	20.171	ppbV	97
115) 1,2,4-trichlorobenzene	20.450	180	1004667	22.660	ppbV	98
116) naphthalene	20.567	128	2671237	20.969	ppbV	99
117) 1,2,3-trichlorobenzene	20.825	180	903462	22.879	ppbV	98
118) benzothiophene	20.633	134	3026136	17.419	ppbV	100
119) hexachlorobutadiene	20.892	225	804994	21.965	ppbV	96
120) 2-methylnaphthalene	21.708	142	704756	16.361	ppbV	97
121) 1-methylnaphthalene	21.908	142	1057159	17.432	ppbV	100

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

Sub List : Default - All compounds listed4\04\0426T_I\r1547524.D

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547525.D
Acq On : 27 Apr 2024 2:02 AM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD020
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

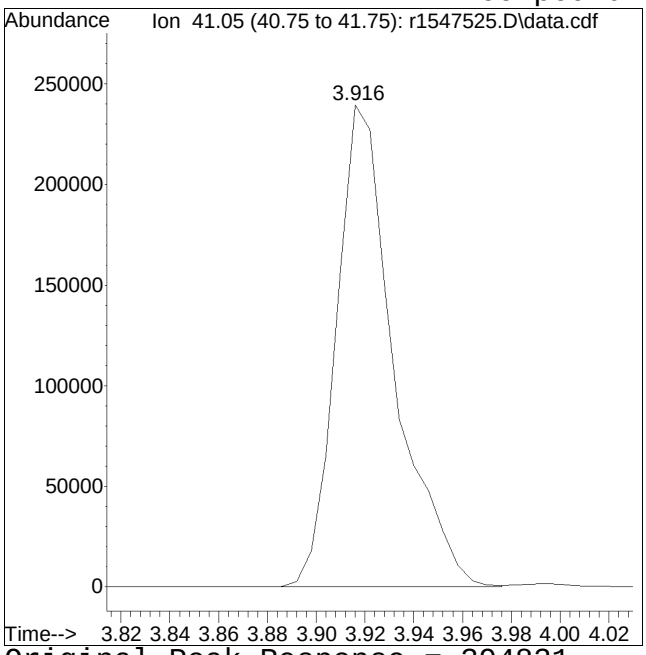
Quant Time: Apr 27 08:54:40 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:53:54 2024
Response via : Initial Calibration



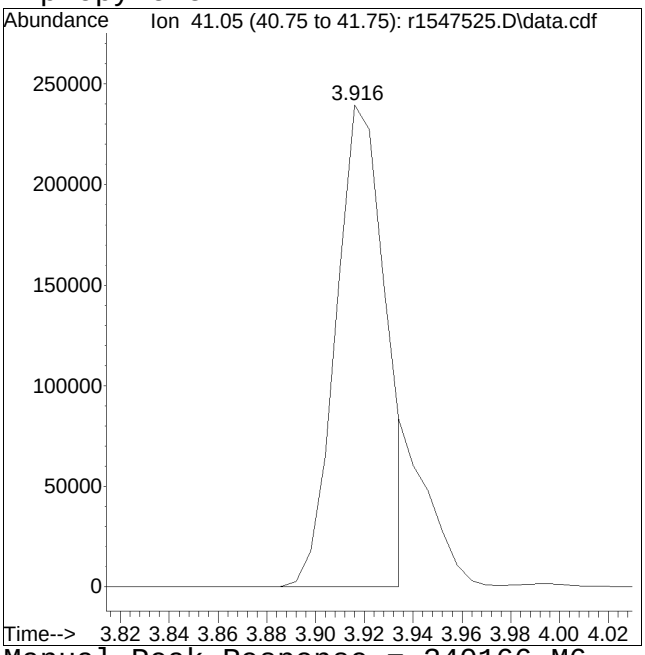
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1547525.D Operator : AIRLAB15:JMB
Date Inj'd : 4/27/2020 0:2: 2 Instrument :
Sample : ITO15-SIMSTD020 Quant Date : 4/27/2024 8:54 am

Compound #3: propylene



Original Peak Response = 394831



Manual Peak Response = 340166 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547526.D
Acq On : 27 Apr 2024 2:43 AM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD050
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:54:45 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:53:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426T_I\r1547524.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.117	49	330524	10.000	ppbV	0.00
Standard Area = 336553			Recovery = 98.21%			
43) 1,4-difluorobenzene	11.353	114	1049704	10.000	ppbV	0.00
Standard Area = 1015611			Recovery = 103.36%			
67) chlorobenzene-D5	16.042	54	150472	10.000	ppbV	0.00
Standard Area = 165724			Recovery = 90.80%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.983	65	243505	10.809	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.09%			
69) toluene-D8	14.192	98	1001054	13.295	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 132.95%#			
90) bromofluorobenzene	17.408	95	702364	13.152	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 131.52%#			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.886	51	1229662	37.281	ppbV	100
3) propylene	3.916	41	934196M6	51.754	ppbV	
4) propane	3.940	29	805689	33.695	ppbV	92
5) dichlorodifluoromethane	3.988	85	1422692	49.455	ppbV	99
6) chloromethane	4.156	50	576484	34.417	ppbV	99
7) Freon-114	4.264	85	1395896	42.595	ppbV	99
8) methanol	4.330	31	1303102	131.504	ppbV	99
9) vinyl chloride	4.384	62	839739	48.843	ppbV	98
10) 1,3-butadiene	4.528	54	510685	35.113	ppbV	97
11) butane	4.588	43	1260662	47.718	ppbV	98
12) acetaldehyde	4.282	29	1180770	118.791	ppbV	87
13) bromomethane	4.816	94	653374	51.365	ppbV	99
14) chloroethane	5.008	64	438717	52.933	ppbV	98
15) ethanol	5.146	31	2160398	152.654	ppbV	87
16) dichlorofluoromethane	5.116	67	1535332	51.255	ppbV	99
17) vinyl bromide	5.383	106	768367	64.332	ppbV	99
18) acrolein	5.513	56	296738	38.647	ppbV	98
19) acetone	5.653	43	4532571	240.440	ppbV	94
20) acetonitrile	5.370	41	813943	52.287	ppbV	99
21) trichlorofluoromethane	5.847	101	1190502	61.199	ppbV	100
22) isopropyl alcohol	5.943	45	2909282	109.088	ppbV	98
23) acrylonitrile	6.177	53	522998	36.591	ppbV	98
24) pentane	6.247	43	1514076	47.279	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547526.D
Acq On : 27 Apr 2024 2:43 AM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD050
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:54:45 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:53:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426T_I\r1547524.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.270	31	888735	27.852	ppbV	95
26) 1,1-dichloroethene	6.552	61	1575604	62.840	ppbV	97
27) tertiary butyl alcohol	6.606	59	1950813	59.486	ppbV	99
28) methylene chloride	6.696	49	1042929	41.067	ppbV	97
29) 3-chloropropene	6.828	41	1538707	55.276	ppbV	98
30) carbon disulfide	6.996	76	2898188	57.072	ppbV	99
31) Freon 113	6.996	101	1913849	63.842	ppbV	99
32) trans-1,2-dichloroethene	7.750	61	1675295	65.135	ppbV	94
33) 1,1-dichloroethane	7.975	63	2108470	64.573	ppbV	97
34) MTBE	8.042	73	2380030	53.686	ppbV	97
35) vinyl acetate	8.167	43	2228182	52.887	ppbV	99
36) 2-butanone	8.425	43	2234841	50.702	ppbV	98
37) cis-1,2-dichloroethene	8.933	61	1569977	64.374	ppbV	96
38) Ethyl Acetate	9.200	61	426378	62.753	ppbV	77
39) chloroform	9.275	83	1599101	52.347	ppbV	97
40) Tetrahydrofuran	9.708	42	1463018	53.128	ppbV	98
41) 2,2-dichloropropane	9.292	77	1216690	52.845	ppbV	96
42) 1,2-dichloroethane	10.108	62	1115850	62.350	ppbV	98
44) hexane	9.183	57	1848516	38.317	ppbV	78
45) diisopropyl ether	9.175	87	915936	40.198	ppbV	99
46) tert-butyl ethyl ether	9.792	59	3356400	41.635	ppbV	98
48) 1,1,1-trichloroethane	10.400	97	1539063	48.960	ppbV	98
49) 1,1-dichloropropene	10.767	75	1489436	39.663	ppbV	97
50) benzene	10.927	78	3525651	38.154	ppbV	97
51) thiophene	11.080	84	2099568	40.719	ppbV	97
52) carbon tetrachloride	11.100	117	1267182	44.901	ppbV	95
53) cyclohexane	11.247	56	2079037	39.466	ppbV	97
54) tert-amyl methyl ether	11.620	73	2893124	38.599	ppbV	99
55) dibromomethane	11.847	93	1124652	47.929	ppbV	97
56) 1,2-dichloropropane	11.873	63	1479304	46.586	ppbV	99
57) bromodichloromethane	12.107	83	1683452	41.901	ppbV	99
58) 1,4-dioxane	12.140	88	838642	45.447	ppbV	95
59) trichloroethene	12.153	130	1510248	47.845	ppbV	97
60) 2,2,4-trimethylpentane	12.200	57	6172722	39.222	ppbV	97
61) methyl methacrylate	12.393	41	1432528	41.091	ppbV	97
62) heptane	12.513	43	2270580	35.363	ppbV	95
63) cis-1,3-dichloropropene	13.167	75	1797004	41.134	ppbV	98
64) 4-methyl-2-pentanone	13.200	43	2665677	35.952	ppbV	95
65) trans-1,3-dichloropropene	13.792	75	1407129	42.000	ppbV	96
66) 1,1,2-trichloroethane	13.992	97	1471709	48.015	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547526.D
Acq On : 27 Apr 2024 2:43 AM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD050
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:54:45 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:53:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426T_I\r1547524.D
Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68)	toluene	14.300	91	4371053	53.495	ppbV		98
70)	2-methylthiophene	14.367	97	3353485	58.044	ppbV		98
71)	1,3-dichloropropane	14.325	76	1852035	45.909	ppbV		99
72)	2-hexanone	14.575	43	2428677	44.205	ppbV		97
73)	3-methylthiophene	14.558	97	3507735	57.158	ppbV		96
74)	dibromochloromethane	14.742	129	1846724	62.575	ppbV		97
75)	1,2-dibromoethane	14.983	107	2073732	54.809	ppbV		97
76)	butyl acetate	15.217	73	518185	49.388	ppbV		84
77)	octane	15.317	85	1542708	48.392	ppbV		93
78)	tetrachloroethene	15.442	166	1758289	57.468	ppbV		98
79)	1,1,1,2-tetrachloroethane	16.067	131	1440217	55.864	ppbV		100
80)	chlorobenzene	16.083	112	3307467	49.906	ppbV		98
81)	ethylbenzene	16.433	91	5696520	53.232	ppbV		95
82)	2-ethylthiophene	16.475	97	3897217	55.863	ppbV		97
83)	m+p-xylene	16.600	91	8700568	103.873	ppbV		92
84)	bromoform	16.667	173	1749804	69.018	ppbV		98
85)	styrene	16.917	104	3813066	53.856	ppbV		98
86)	1,1,2,2-tetrachloroethane	17.008	83	2893390	45.626	ppbV		95
87)	o-xylene	17.017	91	4135002	48.724	ppbV		92
88)	1,2,3-trichloropropane	17.125	75	2360177	45.812	ppbV		97
89)	nonane	17.208	43	3392056	38.168	ppbV		93
91)	isopropylbenzene	17.525	105	5798708	51.239	ppbV		99
92)	bromobenzene	17.600	77	3031904	45.435	ppbV		94
93)	2-chlorotoluene	17.925	126	1679526	54.658	ppbV		89
94)	n-propylbenzene	17.958	120	1888051	52.669	ppbV		90
95)	4-chlorotoluene	17.983	126	1665179	55.380	ppbV		90
96)	4-ethyl toluene	18.075	105	6206070	51.343	ppbV		100
97)	1,3,5-trimethylbenzene	18.142	105	5780047	49.962	ppbV		97
98)	tert-butylbenzene	18.483	119	4648495	47.771	ppbV		100
99)	1,2,4-trimethylbenzene	18.483	105	4674680	46.837	ppbV		97
100)	decane	18.558	57	4295211	46.803	ppbV	#	93
101)	Benzyl Chloride	18.600	91	3588244	62.097	ppbV		98
102)	1,3-dichlorobenzene	18.617	146	3513299	54.791	ppbV		99
103)	1,4-dichlorobenzene	18.675	146	3626285	55.878	ppbV		96
104)	sec-butylbenzene	18.700	105	7301283	50.173	ppbV		97
105)	1,2,3-trimethylbenzene	18.833	105	3587903	44.797	ppbV		96
106)	p-isopropyltoluene	18.833	119	4793540	44.116	ppbV		99
107)	1,2-dichlorobenzene	18.958	146	3466898	55.969	ppbV		97
108)	n-butylbenzene	19.175	91	5668562	51.871	ppbV		95
109)	indan	19.008	117	4975538	51.380	ppbV		100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547526.D
Acq On : 27 Apr 2024 2:43 AM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD050
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:54:45 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:53:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426T_I\r1547524.D
Sub List : Default - All compounds listed

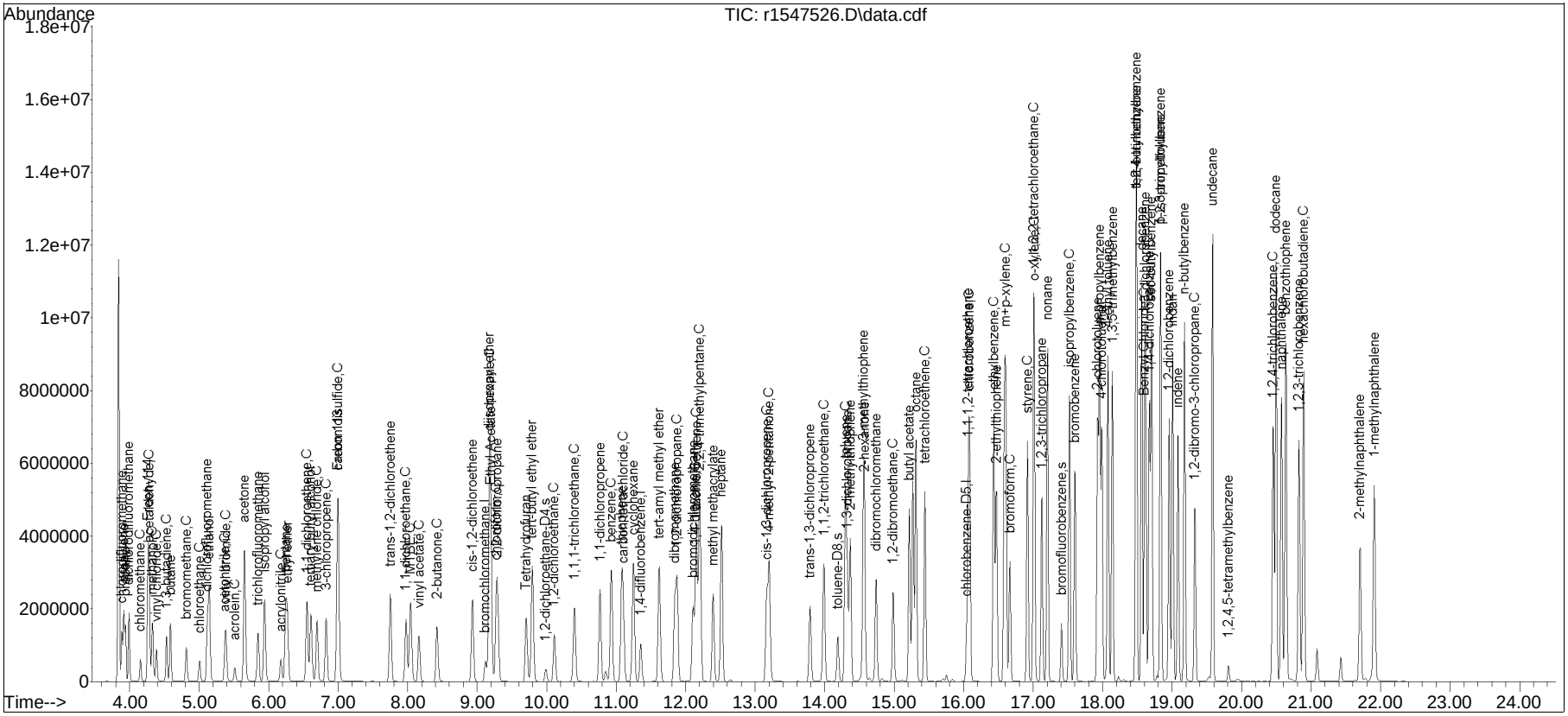
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
110) indene	19.083	115	3490048	53.554	ppbV		97
111) 1,2-dibromo-3-chloropr...	19.325	75	1235462	51.919	ppbV		95
112) undecane	19.583	57	4574082	45.985	ppbV	#	89
113) 1,2,4,5-tetramethylben...	19.808	119	236349	46.545	ppbV		96
114) dodecane	20.492	57	4592627	50.891	ppbV		90
115) 1,2,4-trichlorobenzene	20.450	180	2809037	66.248	ppbV		99
116) naphthalene	20.575	128	7295504	59.882	ppbV		97
117) 1,2,3-trichlorobenzene	20.825	180	2566986	67.972	ppbV		98
118) benzothiophene	20.633	134	8559273	51.517	ppbV		100
119) hexachlorobutadiene	20.892	225	2149246	61.319	ppbV		93
120) 2-methylnaphthalene	21.700	142	2534991	61.535	ppbV		99
121) 1-methylnaphthalene	21.908	142	3732906	64.361	ppbV		96

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

Sub List : Default - All compounds listed4\04\0426T_I\r1547524.D

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547526.D
Acq On : 27 Apr 2024 2:43 AM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD050
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:54:45 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:53:54 2024
Response via : Initial Calibration

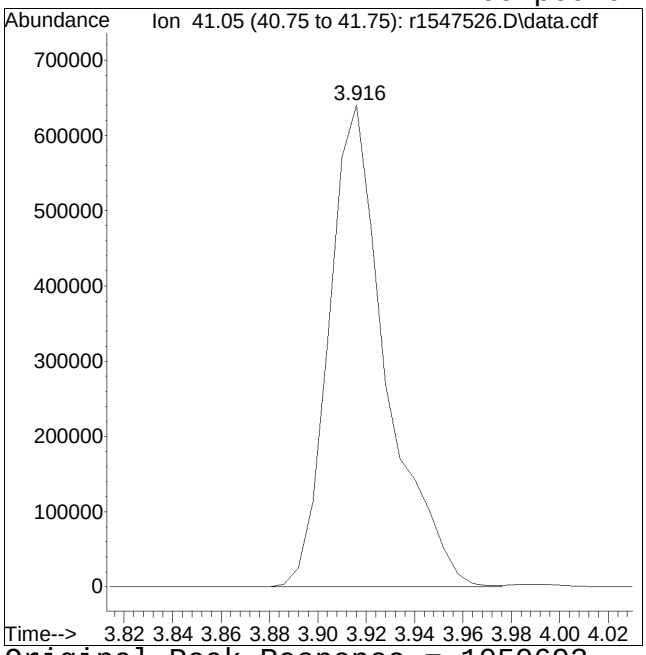


Manual Integration Report

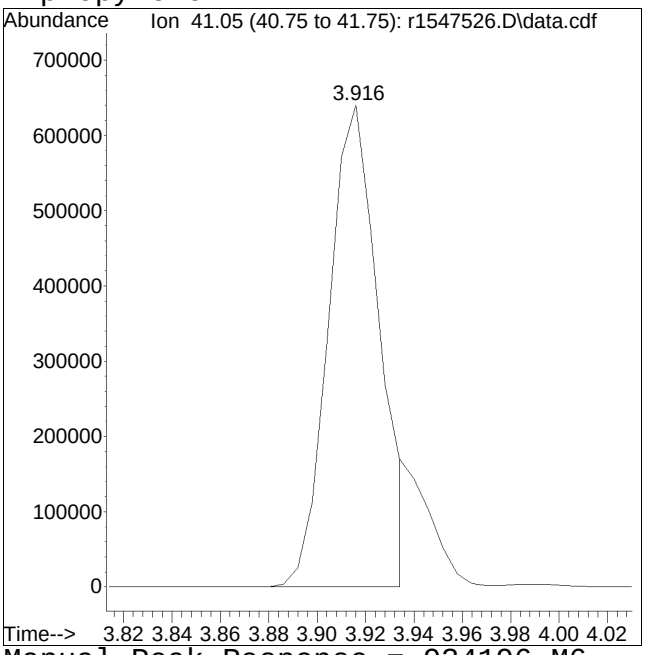
Data Path : O:\Forensics\Data\Airlab15Q
Data File : r1547526.D
Date Inj'd : 4/27/2020 0:2: 3
Sample : ITO15-SIMSTD050

Method : TFS15_240426.M
Operator : AIRLAB15:JMB
Instrument :
Quant Date : 4/27/2024 8:54 am

Compound #3: propylene



Original Peak Response = 1050693



Manual Peak Response = 934196 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547527.D
Acq On : 27 Apr 2024 3:27 AM
Operator : AIRLAB15:JMB
Sample : ITO15-LLSTD100
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:54:50 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:53:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426T_I\r1547524.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) bromochloromethane	9.125	49	331798	10.000	ppbV		0.00
Standard Area = 336553			Recovery = 98.59%				
43) 1,4-difluorobenzene	11.353	114	1067088	10.000	ppbV		0.00
Standard Area = 1015611			Recovery = 105.07%				
67) chlorobenzene-D5	16.042	54	140165	10.000	ppbV	#	0.00
Standard Area = 165724			Recovery = 84.58%				
System Monitoring Compounds							
47) 1,2-dichloroethane-D4	9.992	65	244287	10.667	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.67%				
69) toluene-D8	14.192	98	1008833	14.384	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 143.84%#				
90) bromofluorobenzene	17.408	95	733424	14.743	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 147.43%#				
Target Compounds							Qvalue
2) chlorodifluoromethane	3.886	51	2366336	71.467	ppbV		98
3) propylene	3.916	41	1831129M6	101.055	ppbV		
4) propane	3.940	29	1469859	61.235	ppbV	#	84
5) dichlorodifluoromethane	3.988	85	2689704	93.140	ppbV		100
6) chloromethane	4.156	50	1152574	68.547	ppbV		99
7) Freon-114	4.264	85	2530550	76.922	ppbV		100
8) methanol	4.330	31	2336754	234.911	ppbV		99
9) vinyl chloride	4.384	62	1541019	89.288	ppbV		99
10) 1,3-butadiene	4.534	54	970321	66.461	ppbV		94
11) butane	4.588	43	2512709	94.744	ppbV		96
12) acetaldehyde	4.282	29	1992600	199.695	ppbV	#	79
13) bromomethane	4.816	94	1219328	95.490	ppbV		98
14) chloroethane	5.008	64	820638	98.633	ppbV		98
15) ethanol	5.158	31	3772046	265.509	ppbV	#	75
16) dichlorofluoromethane	5.122	67	2808056	93.383	ppbV		98
17) vinyl bromide	5.387	106	1415187	118.032	ppbV		99
18) acrolein	5.513	56	572510	74.276	ppbV		96
19) acetone	5.657	43	8382974	442.986	ppbV		90
20) acetonitrile	5.377	41	1573398	100.685	ppbV		97
21) trichlorofluoromethane	5.847	101	2169278	111.086	ppbV		98
22) isopropyl alcohol	5.953	45	5764827	215.330	ppbV		97
23) acrylonitrile	6.180	53	1020161	71.100	ppbV		96
24) pentane	6.247	43	2964044	92.200	ppbV		97

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547527.D
Acq On : 27 Apr 2024 3:27 AM
Operator : AIRLAB15:JMB
Sample : ITO15-LLSTD100
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:54:50 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:53:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426T_I\r1547524.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	6.273	31	1565724	48.880	ppbV	#	90
26) 1,1-dichloroethene	6.552	61	2984035	118.555	ppbV		92
27) tertiary butyl alcohol	6.618	59	3777902	114.757	ppbV		99
28) methylene chloride	6.696	49	2007861	78.760	ppbV		94
29) 3-chloropropene	6.828	41	3136014	112.224	ppbV		96
30) carbon disulfide	7.002	76	5490510	107.705	ppbV		99
31) Freon 113	6.996	101	3565708	118.489	ppbV		91
32) trans-1,2-dichloroethene	7.750	61	3160491	122.407	ppbV		92
33) 1,1-dichloroethane	7.975	63	4070407	124.180	ppbV		97
34) MTBE	8.042	73	4873192	109.501	ppbV		94
35) vinyl acetate	8.167	43	4627505	109.415	ppbV		98
36) 2-butanone	8.425	43	4550243	102.836	ppbV		96
37) cis-1,2-dichloroethene	8.933	61	2971437	121.371	ppbV		91
38) Ethyl Acetate	9.208	61	776421	113.832	ppbV		64
39) chloroform	9.283	83	2999760	97.820	ppbV		98
40) Tetrahydrofuran	9.708	42	2973385	107.561	ppbV		96
41) 2,2-dichloropropane	9.300	77	2403962	104.011	ppbV		94
42) 1,2-dichloroethane	10.117	62	2111450	117.527	ppbV		97
44) hexane	9.183	57	3115801	63.533	ppbV		83
45) diisopropyl ether	9.183	87	1646130	71.068	ppbV		93
46) tert-butyl ethyl ether	9.792	59	6230473	76.027	ppbV		97
48) 1,1,1-trichloroethane	10.400	97	2936851	91.904	ppbV		94
49) 1,1-dichloropropene	10.767	75	2974098	77.909	ppbV		94
50) benzene	10.933	78	6933043	73.807	ppbV		97
51) thiophene	11.080	84	3988662	76.095	ppbV		94
52) carbon tetrachloride	11.107	117	2497732	87.061	ppbV		96
53) cyclohexane	11.247	56	3832559	71.567	ppbV		89
54) tert-amyl methyl ether	11.620	73	5900043	77.434	ppbV		96
55) dibromomethane	11.847	93	2048983	85.899	ppbV		93
56) 1,2-dichloropropane	11.880	63	2754294	85.325	ppbV		99
57) bromodichloromethane	12.107	83	3228191	79.040	ppbV		98
58) 1,4-dioxane	12.140	88	1550891	82.675	ppbV		92
59) trichloroethene	12.160	130	2802316	87.331	ppbV		98
60) 2,2,4-trimethylpentane	12.207	57	10871030	67.951	ppbV	#	92
61) methyl methacrylate	12.400	41	2882170	81.325	ppbV		95
62) heptane	12.520	43	4413078	67.611	ppbV		91
63) cis-1,3-dichloropropene	13.167	75	3621990	81.558	ppbV		97
64) 4-methyl-2-pentanone	13.208	43	5261613	69.807	ppbV		92
65) trans-1,3-dichloropropene	13.792	75	2874405	84.397	ppbV		94
66) 1,1,2-trichloroethane	13.992	97	2837611	91.071	ppbV		93

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547527.D
Acq On : 27 Apr 2024 3:27 AM
Operator : AIRLAB15:JMB
Sample : ITO15-LLSTD100
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:54:50 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:53:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426T_I\r1547524.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68) toluene	14.300	91	7915310	103.995	ppbV		99
70) 2-methylthiophene	14.375	97	6412238	119.147	ppbV		99
71) 1,3-dichloropropane	14.333	76	3648347	97.087	ppbV		99
72) 2-hexanone	14.575	43	4661017	91.075	ppbV		92
73) 3-methylthiophene	14.558	97	6411844	112.163	ppbV		95
74) dibromochloromethane	14.742	129	3458832	125.819	ppbV		98
75) 1,2-dibromoethane	14.992	107	4009083	113.753	ppbV		98
76) butyl acetate	15.217	73	1053067	107.748	ppbV	#	73
77) octane	15.317	85	2833973	95.433	ppbV	#	91
78) tetrachloroethene	15.442	166	3291082	115.476	ppbV		96
79) 1,1,1,2-tetrachloroethane	16.067	131	2575699	107.255	ppbV		95
80) chlorobenzene	16.092	112	6093768	98.710	ppbV		98
81) ethylbenzene	16.433	91	10092854	101.249	ppbV	#	87
82) 2-ethylthiophene	16.475	97	7120240	109.567	ppbV		96
83) m+p-xylene	16.600	91	14849032	190.314	ppbV		86
84) bromoform	16.667	173	3320298	140.593	ppbV		97
85) styrene	16.917	104	7249582	109.923	ppbV		98
86) 1,1,2,2-tetrachloroethane	17.008	83	4779398	80.908	ppbV		97
87) o-xylene	17.017	91	6826311	86.352	ppbV		87
88) 1,2,3-trichloropropane	17.125	75	4534585	94.491	ppbV		93
89) nonane	17.208	43	6142793	74.202	ppbV		85
91) isopropylbenzene	17.525	105	10536301	99.947	ppbV		96
92) bromobenzene	17.600	77	5704072	91.765	ppbV		90
93) 2-chlorotoluene	17.925	126	3122356	109.085	ppbV		76
94) n-propylbenzene	17.958	120	3529931	105.711	ppbV	#	61
95) 4-chlorotoluene	17.992	126	3106045	110.895	ppbV		87
96) 4-ethyl toluene	18.075	105	11284808	100.225	ppbV		99
97) 1,3,5-trimethylbenzene	18.142	105	10445300	96.928	ppbV		98
98) tert-butylbenzene	18.483	119	7509540	82.848	ppbV		97
99) 1,2,4-trimethylbenzene	18.492	105	7413787	79.743	ppbV		92
100) decane	18.567	57	6935955	81.135	ppbV	#	82
101) Benzyl Chloride	18.608	91	6362550	118.205	ppbV		96
102) 1,3-dichlorobenzene	18.617	146	6365914	106.580	ppbV		98
103) 1,4-dichlorobenzene	18.675	146	6297325	104.173	ppbV		93
104) sec-butylbenzene	18.708	105	12689135	93.610	ppbV		96
105) 1,2,3-trimethylbenzene	18.842	105	6029622	80.819	ppbV		98
106) p-isopropyltoluene	18.833	119	7692220	75.999	ppbV		98
107) 1,2-dichlorobenzene	18.958	146	6250929	108.335	ppbV		95
108) n-butylbenzene	19.183	91	9851496	96.776	ppbV		92
109) indan	19.008	117	8934762	99.050	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547527.D
Acq On : 27 Apr 2024 3:27 AM
Operator : AIRLAB15:JMB
Sample : ITO15-LLSTD100
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:54:50 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:53:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426T_I\r1547524.D
Sub List : Default - All compounds listed

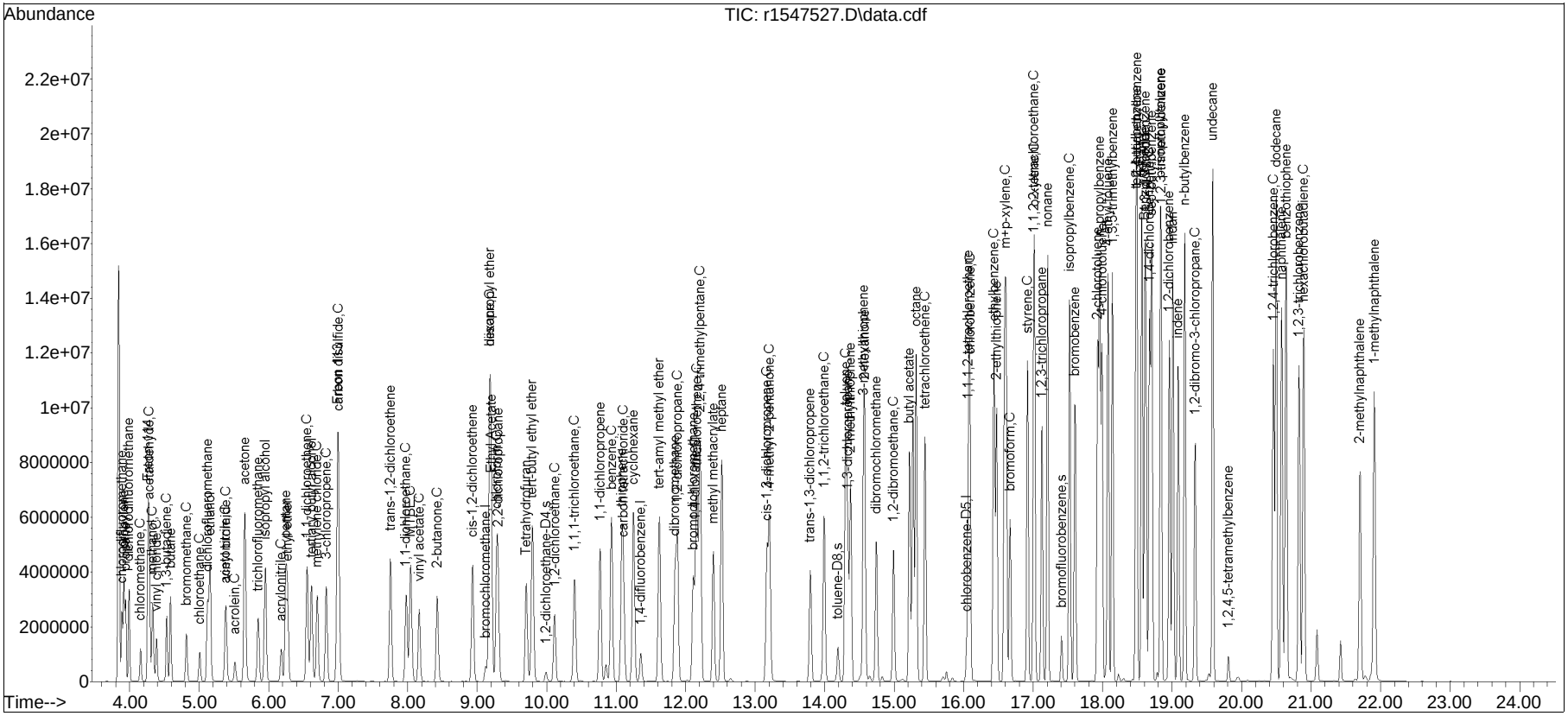
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
110) indene	19.083	115	6717522	110.659	ppbV		94
111) 1,2-dibromo-3-chloropr...	19.333	75	2401818	108.356	ppbV		95
112) undecane	19.583	57	7274638	78.513	ppbV	#	79
113) 1,2,4,5-tetramethylben...	19.808	119	494710	104.588	ppbV		96
114) dodecane	20.500	57	7154026	85.104	ppbV	#	80
115) 1,2,4-trichlorobenzene	20.458	180	5218987	132.135	ppbV		97
116) naphthalene	20.575	128	13430839	118.349	ppbV	#	96
117) 1,2,3-trichlorobenzene	20.825	180	4906305	139.468	ppbV		99
118) benzothiophene	20.642	134	14988342	96.847	ppbV		98
119) hexachlorobutadiene	20.892	225	3772435	115.544	ppbV		94
120) 2-methylnaphthalene	21.700	142	5451115	142.053	ppbV		100
121) 1-methylnaphthalene	21.908	142	7440470	137.719	ppbV		98

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

Sub List : Default - All compounds listed4\04\0426T_I\r1547524.D

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547527.D
Acq On : 27 Apr 2024 3:27 AM
Operator : AIRLAB15:JMB
Sample : ITO15-LLSTD100
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

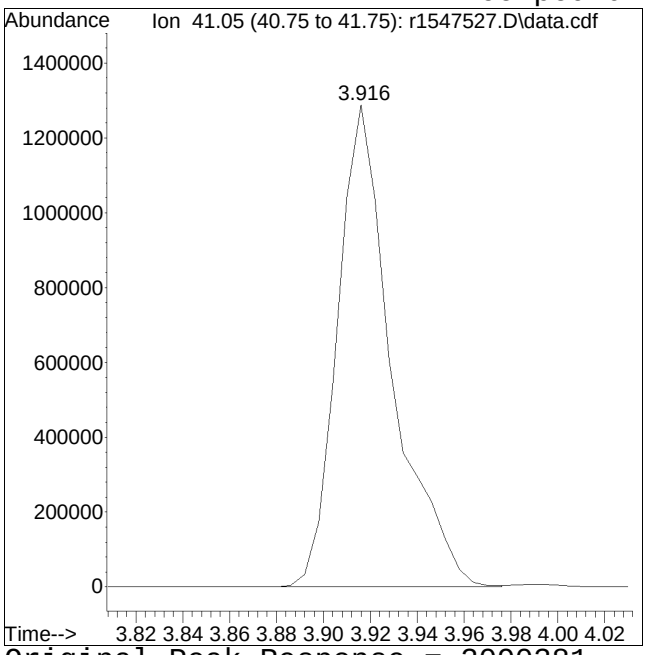
Quant Time: Apr 27 08:54:50 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:53:54 2024
Response via : Initial Calibration



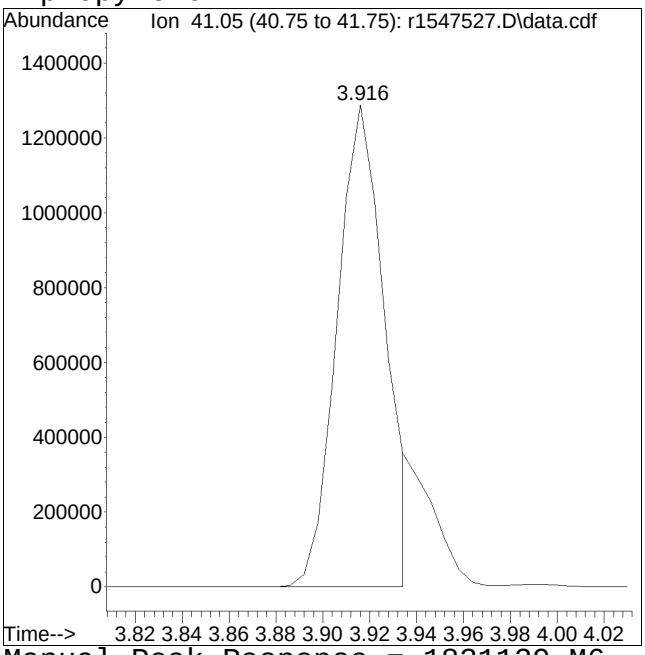
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15\ Method : TFS15_240426.M
Data File : r1547527.D Operator : AIRLAB15:JMB
Date Inj'd : 4/27/2020 0:3: 7 Instrument :
Sample : ITO15-LLSTD100 Quant Date : 4/27/2024 8:54 am

Compound #3: propylene



Original Peak Response = 2090381



Manual Peak Response = 1831129 M6

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

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547530.D
Acq On : 27 Apr 2024 10:24 AM
Operator : AIRLAB15:JMB
Sample : CTO15-LLSTD10.0
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 12:41:24 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 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	88	0.00
2		chlorodifluoromethane	1.023	0.787	23.1	64	0.00
3		propylene	0.698	0.735	-5.3	85	0.00
4		propane	0.626	0.509	18.7	63	0.00
5		dichlorodifluoromethane	1.082	1.009	6.7	72	0.00
6	C	chloromethane	0.412	0.383	7.0	71	0.00
7		Freon-114	1.056	1.145	-8.4	80	0.00
8	C	methanol	0.219	0.158	27.9	58#	0.00
9	C	vinyl chloride	0.613	0.553	9.8	65	0.00
10	C	1,3-butadiene	0.363	0.368	-1.4	74	0.00
11		butane	0.863	0.889	-3.0	78	0.00
13	C	bromomethane	0.476	0.457	4.0	70	0.00
14	C	chloroethane	0.319	0.303	5.0	69	0.00
15		ethanol	0.328	0.293	10.7	63	0.00
16		dichlorofluoromethane	1.223	1.011	17.3	66	0.00
17	C	vinyl bromide	0.522	0.514	1.5	70	0.00
18	C	acrolein	0.203	0.178	12.3	63	0.00
19		acetone	0.661	0.734	-11.0	82	0.00
20	C	acetonitrile	0.563	0.565	-0.4	75	0.00
21		trichlorofluoromethane	0.884	0.808	8.6	66	0.00
22		isopropyl alcohol	0.811	0.831	-2.5	78	0.00
23	C	acrylonitrile	0.344	0.335	2.6	69	0.00
24		pentane	1.092	1.074	1.6	76	0.00
25		ethyl ether	0.735	0.558	24.1	61	0.00
26	C	1,1-dichloroethene	1.094	1.113	-1.7	73	0.00
27		tertiary butyl alcohol	1.300	1.316	-1.2	74	0.00
28	C	methylene chloride	0.741	0.738	0.4	73	0.00
29	C	3-chloropropene	0.990	1.175	-18.7	86	0.00
30	C	carbon disulfide	1.890	1.999	-5.8	76	0.00
31		Freon 113	1.331	1.426	-7.1	80	0.00
32		trans-1,2-dichloroethene	1.087	1.126	-3.6	71	0.00
33	C	1,1-dichloroethane	1.431	1.464	-2.3	74	0.00
34	C	MTBE	1.568	1.790	-14.2	83	0.00
35	C	vinyl acetate	1.380	1.400	-1.4	73	0.00
36	C	2-butanone	1.480	1.610	-8.8	80	0.00
37		cis-1,2-dichloroethene	1.055	1.071	-1.5	71	0.00
38		Ethyl Acetate	0.284	0.305	-7.4	76	0.00
39	C	chloroform	1.154	1.115	3.4	69	0.00
40		Tetrahydrofuran	0.936	1.035	-10.6	81	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547530.D
Acq On : 27 Apr 2024 10:24 AM
Operator : AIRLAB15:JMB
Sample : CTO15-LLSTD10.0
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 12:41:24 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 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	0.831	0.807	2.9	70	0.00
42	C	1,2-dichloroethane	0.810	0.749	7.5	67	0.00
43	I	1,4-difluorobenzene	1.000	1.000	0.0	98	0.00
44	C	hexane	0.437	0.405	7.3	70	0.00
45		diisopropyl ether	0.209	0.189	9.6	71	0.00
46		tert-butyl ethyl ether	0.750	0.673	10.3	69	0.00
47	s	1,2-dichloroethane-D4	0.241	0.232	3.7	89	0.00
48	C	1,1,1-trichloroethane	0.337	0.313	7.1	72	0.00
49		1,1-dichloropropene	0.316	0.315	0.3	79	0.00
50	C	benzene	0.771	0.719	6.7	73	0.00
52	C	carbon tetrachloride	0.278	0.258	7.2	72	0.00
53		cyclohexane	0.469	0.435	7.2	72	0.00
54		tert-amyl methyl ether	0.603	0.609	-1.0	80	0.00
55		dibromomethane	0.248	0.225	9.3	71	0.00
56	C	1,2-dichloropropane	0.321	0.305	5.0	74	0.00
57		bromodichloromethane	0.367	0.359	2.2	74	0.00
58	C	1,4-dioxane	0.177	0.178	-0.6	76	0.00
59	C	trichloroethene	0.330	0.308	6.7	72	0.00
60	C	2,2,4-trimethylpentane	1.461	1.373	6.0	71	0.00
61		methyl methacrylate	0.289	0.321	-11.1	85	0.00
62		heptane	0.487	0.508	-4.3	81	0.00
63	C	cis-1,3-dichloropropene	0.357	0.372	-4.2	77	0.00
64	C	4-methyl-2-pentanone	0.554	0.578	-4.3	81	0.00
65		trans-1,3-dichloropropene	0.272	0.282	-3.7	77	0.00
66	C	1,1,2-trichloroethane	0.319	0.311	2.5	76	0.00
67	I	chlorobenzene-D5	1.000	1.000	0.0	82	0.00
68	C	toluene	6.295	6.689	-6.3	71	0.00
69	s	toluene-D8	6.096	7.062	-15.8	96	0.00
71		1,3-dichloropropane	2.567	2.793	-8.8	74	0.00
72		2-hexanone	3.039	3.938	-29.6	81	0.00
74		dibromochloromethane	2.437	2.998	-23.0	79	0.00
75	C	1,2-dibromoethane	2.775	3.226	-16.3	78	0.00
76		butyl acetate	0.659	0.753	-14.3	77	0.00
77		octane	2.232	2.301	-3.1	69	0.00
78	C	tetrachloroethene	2.476	2.721	-9.9	74	0.00
79		1,1,1,2-tetrachloroethane	2.017	2.211	-9.6	72	0.00
80	C	chlorobenzene	4.656	5.259	-13.0	76	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547530.D
Acq On : 27 Apr 2024 10:24 AM
Operator : AIRLAB15:JMB
Sample : CTO15-LLSTD10.0
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 12:41:24 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 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	8.068	8.820	-9.3	71	0.00
83	C	m+p-xylene	6.316	6.973	-10.4	72	0.00
84	C	bromoform	2.161	2.775	-28.4	82	0.00
85	C	styrene	4.970	5.865	-18.0	77	0.00
86	C	1,1,2,2-tetrachloroethane	4.325	4.838	-11.9	72	0.00
87	C	o-xylene	6.313	7.102	-12.5	72	0.00
88		1,2,3-trichloropropane	3.249	3.572	-9.9	75	0.00
89		nonane	4.810	5.347	-11.2	74	0.00
90	s	bromofluorobenzene	4.292	4.750	-10.7	93	0.00
91	C	isopropylbenzene	7.987	9.423	-18.0	80	0.00
92		bromobenzene	4.261	4.659	-9.3	75	0.00
93		2-chlorotoluene	2.342	2.476	-5.7	71	0.00
94		n-propylbenzene	2.645	2.894	-9.4	72	0.00
95		4-chlorotoluene	2.306	2.518	-9.2	73	0.00
96		4-ethyl toluene	8.331	10.182	-22.2	79	0.00
97		1,3,5-trimethylbenzene	8.048	9.462	-17.6	79	0.00
98		tert-butylbenzene	6.998	7.828	-11.9	72	0.00
99		1,2,4-trimethylbenzene	6.858	8.386	-22.3	77	0.00
100		decane	6.491	6.875	-5.9	69	0.00
101	C	Benzyl Chloride	3.992	4.863	-21.8	72	0.00
102		1,3-dichlorobenzene	4.814	5.827	-21.0	77	0.00
103	C	1,4-dichlorobenzene	4.868	5.740	-17.9	76	0.00
104		sec-butylbenzene	10.167	11.693	-15.0	75	0.00
106		p-isopropyltoluene	7.714	8.456	-9.6	70	0.00
107		1,2-dichlorobenzene	4.595	5.534	-20.4	77	0.00
108		n-butylbenzene	8.137	9.305	-14.4	74	0.00
111	C	1,2-dibromo-3-chloropropane	1.544	1.785	-15.6	74	0.00
112		undecane	6.860	7.486	-9.1	68	0.00
114		dodecane	6.212	7.108	-14.4	64	0.00
115	C	1,2,4-trichlorobenzene	3.378	3.759	-11.3	64	0.00
116		naphthalene	9.022	10.349	-14.7	69	0.00
117		1,2,3-trichlorobenzene	3.055	3.584	-17.3	71	0.00
119	C	hexachlorobutadiene	2.925	3.065	-4.8	65	0.00

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547530.D
Acq On : 27 Apr 2024 10:24 AM
Operator : AIRLAB15:JMB
Sample : CTO15-LLSTD10.0
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 12:41:24 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426T_I\r1547524.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.117	49	295602	10.000	ppbV	0.00
Standard Area = 336553			Recovery = 87.83%			
43) 1,4-difluorobenzene	11.347	114	994040	10.000	ppbV	0.00
Standard Area = 1015611			Recovery = 97.88%			
67) chlorobenzene-D5	16.042	54	135152	10.000	ppbV	0.00
Standard Area = 165724			Recovery = 81.55%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.983	65	230879	9.629	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.29%			
69) toluene-D8	14.183	98	954423	11.585	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.85%			
90) bromofluorobenzene	17.408	95	641911	11.066	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.66%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.886	51	232635	7.696	ppbV	98
3) propylene	3.916	41	217398M6	10.537	ppbV	
4) propane	3.940	29	150471	8.126	ppbV #	86
5) dichlorodifluoromethane	3.988	85	298250	9.328	ppbV	99
6) chloromethane	4.156	50	113147	9.301	ppbV	99
7) Freon-114	4.264	85	338437	10.840	ppbV	95
8) methanol	4.324	31	233759	36.066	ppbV	100
9) vinyl chloride	4.384	62	163413	9.019	ppbV	99
10) 1,3-butadiene	4.528	54	108678	10.135	ppbV	95
11) butane	4.588	43	262768	10.304	ppbV	97
13) bromomethane	4.810	94	135202	9.600	ppbV	99
14) chloroethane	5.002	64	89567	9.495	ppbV	95
15) ethanol	5.134	31	432898	44.700	ppbV #	80
16) dichlorofluoromethane	5.110	67	298931	8.268	ppbV	98
17) vinyl bromide	5.383	106	151896	9.847	ppbV	95
18) acrolein	5.513	56	52529	8.733	ppbV	97
19) acetone	5.650	43	1085191	55.557	ppbV	92
20) acetonitrile	5.367	41	166931	10.031	ppbV	97
21) trichlorofluoromethane	5.843	101	238962	9.147	ppbV	96
22) isopropyl alcohol	5.937	45	614041	25.620	ppbV	98
23) acrylonitrile	6.170	53	99024	9.724	ppbV	98
24) pentane	6.243	43	317476	9.837	ppbV	97
25) ethyl ether	6.270	31	164977	7.595	ppbV #	92

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547530.D
Acq On : 27 Apr 2024 10:24 AM
Operator : AIRLAB15:JMB
Sample : CTO15-LLSTD10.0
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 12:41:24 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426T_I\r1547524.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) 1,1-dichloroethene	6.546	61	328860	10.173	ppbV	94
27) tertiary butyl alcohol	6.606	59	388918	10.117	ppbV	99
28) methylene chloride	6.690	49	218215	9.957	ppbV	97
29) 3-chloropropene	6.822	41	347324	11.867	ppbV	97
30) carbon disulfide	6.996	76	590851	10.577	ppbV	99
31) Freon 113	6.990	101	421506	10.711	ppbV	98
32) trans-1,2-dichloroethene	7.750	61	332843	10.354	ppbV	96
33) 1,1-dichloroethane	7.975	63	432678	10.226	ppbV	96
34) MTBE	8.042	73	529070	11.415	ppbV	95
35) vinyl acetate	8.158	43	413880	10.143	ppbV	97
36) 2-butanone	8.417	43	476022	10.882	ppbV	98
37) cis-1,2-dichloroethene	8.925	61	316629	10.154	ppbV	96
38) Ethyl Acetate	9.192	61	90018	10.707	ppbV	95
39) chloroform	9.267	83	329621	9.661	ppbV	97
40) Tetrahydrofuran	9.708	42	305969	11.056	ppbV	98
41) 2,2-dichloropropane	9.292	77	238502	9.710	ppbV	99
42) 1,2-dichloroethane	10.108	62	221362	9.246	ppbV	97
44) hexane	9.175	57	402673	9.262	ppbV	85
45) diisopropyl ether	9.175	87	188240	9.072	ppbV	87
46) tert-butyl ethyl ether	9.792	59	669074	8.977	ppbV	99
48) 1,1,1-trichloroethane	10.392	97	311078	9.285	ppbV	96
49) 1,1-dichloropropene	10.760	75	312791	9.963	ppbV	97
50) benzene	10.920	78	714670	9.319	ppbV	96
52) carbon tetrachloride	11.093	117	256923	9.306	ppbV	98
53) cyclohexane	11.240	56	431927	9.271	ppbV	95
54) tert-amyl methyl ether	11.613	73	605385	10.102	ppbV	97
55) dibromomethane	11.840	93	223999	9.097	ppbV	97
56) 1,2-dichloropropane	11.873	63	303384	9.518	ppbV	99
57) bromodichloromethane	12.100	83	356928	9.772	ppbV	97
58) 1,4-dioxane	12.140	88	176573	10.042	ppbV	94
59) trichloroethene	12.147	130	306014	9.330	ppbV	99
60) 2,2,4-trimethylpentane	12.193	57	1365275	9.402	ppbV	95
61) methyl methacrylate	12.393	41	319210	11.101	ppbV	97
62) heptane	12.513	43	504492	10.424	ppbV	93
63) cis-1,3-dichloropropene	13.158	75	369545	10.428	ppbV	97
64) 4-methyl-2-pentanone	13.200	43	574271	10.420	ppbV	92
65) trans-1,3-dichloropropene	13.783	75	280526	10.361	ppbV	95
66) 1,1,2-trichloroethane	13.983	97	309285	9.757	ppbV	96
68) toluene	14.292	91	903970	10.625	ppbV	99
71) 1,3-dichloropropane	14.325	76	377468	10.882	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547530.D
Acq On : 27 Apr 2024 10:24 AM
Operator : AIRLAB15:JMB
Sample : CTO15-LLSTD10.0
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 12:41:24 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426T_I\r1547524.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 2-hexanone	14.575	43	532206	12.959	ppbV	93
74) dibromochloromethane	14.733	129	405161	12.299	ppbV	97
75) 1,2-dibromoethane	14.983	107	435939	11.622	ppbV	99
76) butyl acetate	15.217	73	101741	11.419	ppbV	88
77) octane	15.308	85	310937	10.306	ppbV	91
78) tetrachloroethene	15.442	166	367714	10.989	ppbV	99
79) 1,1,1,2-tetrachloroethane	16.067	131	298767	10.961	ppbV	100
80) chlorobenzene	16.083	112	710730	11.296	ppbV	99
81) ethylbenzene	16.425	91	1191975	10.931	ppbV	95
83) m+p-xylene	16.592	91	1884806	22.079	ppbV	92
84) bromoform	16.658	173	375032	12.839	ppbV	98
85) styrene	16.917	104	792645	11.800	ppbV	98
86) 1,1,2,2-tetrachloroethane	17.008	83	653817	11.185	ppbV	97
87) o-xylene	17.008	91	959908	11.251	ppbV	95
88) 1,2,3-trichloropropane	17.117	75	482747	10.994	ppbV	97
89) nonane	17.200	43	722706	11.117	ppbV	94
91) isopropylbenzene	17.517	105	1273483	11.797	ppbV	99
92) bromobenzene	17.600	77	629620	10.934	ppbV	99
93) 2-chlorotoluene	17.925	126	334673	10.574	ppbV	96
94) n-propylbenzene	17.950	120	391130	10.941	ppbV	92
95) 4-chlorotoluene	17.983	126	340335	10.920	ppbV	93
96) 4-ethyl toluene	18.075	105	1376157	12.222	ppbV	97
97) 1,3,5-trimethylbenzene	18.133	105	1278870	11.757	ppbV	98
98) tert-butylbenzene	18.475	119	1058023	11.186	ppbV	98
99) 1,2,4-trimethylbenzene	18.483	105	1133426	12.229	ppbV	95
100) decane	18.558	57	929231	10.593	ppbV	93
101) Benzyl Chloride	18.600	91	657191	12.182	ppbV	99
102) 1,3-dichlorobenzene	18.608	146	787530	12.104	ppbV	95
103) 1,4-dichlorobenzene	18.667	146	775790	11.791	ppbV	99
104) sec-butylbenzene	18.700	105	1580344	11.501	ppbV	100
106) p-isopropyltoluene	18.825	119	1142861	10.963	ppbV	99
107) 1,2-dichlorobenzene	18.950	146	747880	12.044	ppbV	98
108) n-butylbenzene	19.175	91	1257616	11.435	ppbV	99
111) 1,2-dibromo-3-chloropr...	19.325	75	241265	11.558	ppbV	97
112) undecane	19.583	57	1011706	10.912	ppbV	93
114) dodecane	20.492	57	960623	11.442	ppbV	93
115) 1,2,4-trichlorobenzene	20.450	180	508001	11.127	ppbV	94
116) naphthalene	20.567	128	1398687	11.471	ppbV	98
117) 1,2,3-trichlorobenzene	20.825	180	484428	11.734	ppbV	96
119) hexachlorobutadiene	20.892	225	414259	10.479	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547530.D
Acq On : 27 Apr 2024 10:24 AM
Operator : AIRLAB15:JMB
Sample : CTO15-LLSTD10.0
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 12:41:24 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426T_I\r1547524.D
Sub List : Default-ICV-AP2 - All compounds listed

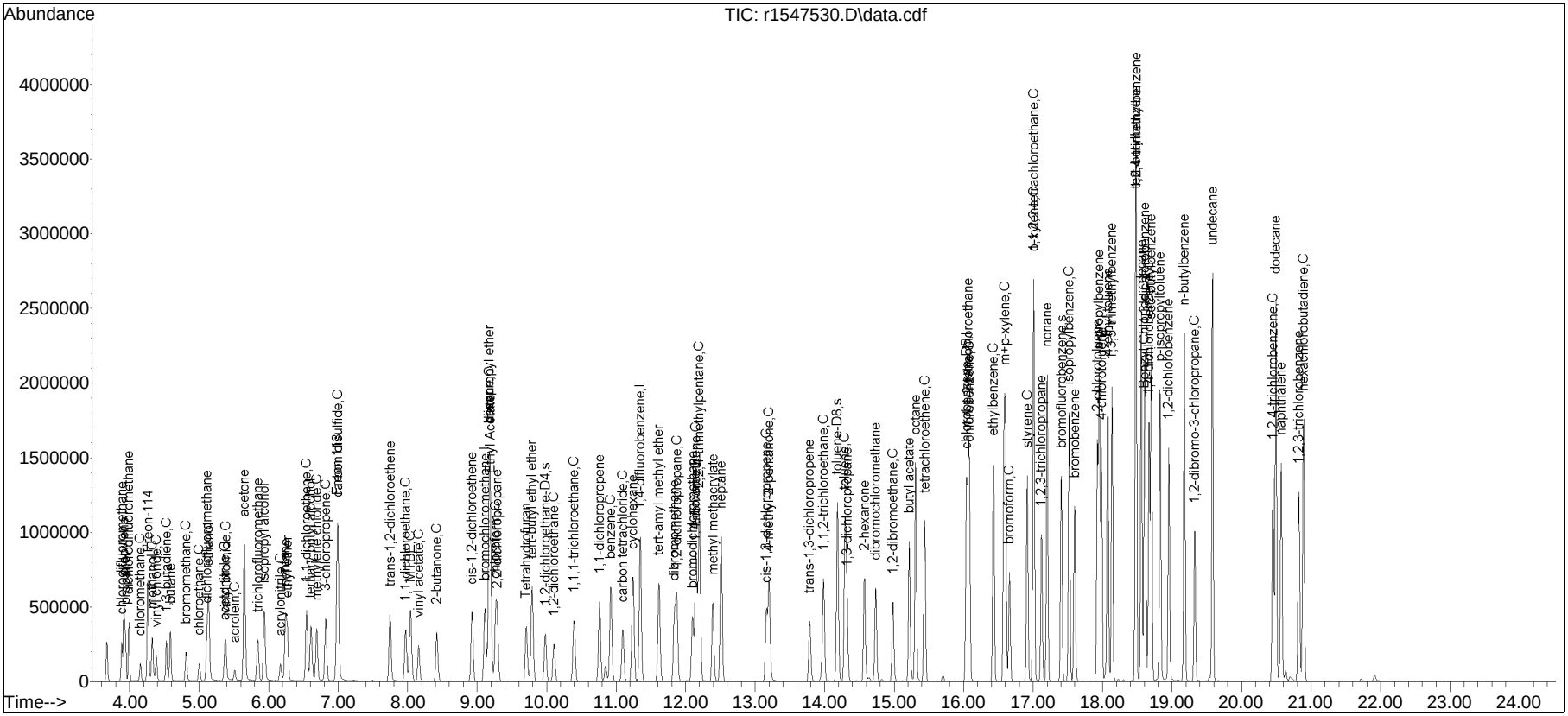
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Sub List : Default-ICV-AP2 - All compounds listed6T_I\r1547524.D

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426T_I\
Data File : r1547530.D
Acq On : 27 Apr 2024 10:24 AM
Operator : AIRLAB15:JMB
Sample : CTO15-LLSTD10.0
Misc : WG1914187
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 12:41:24 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426T_I\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

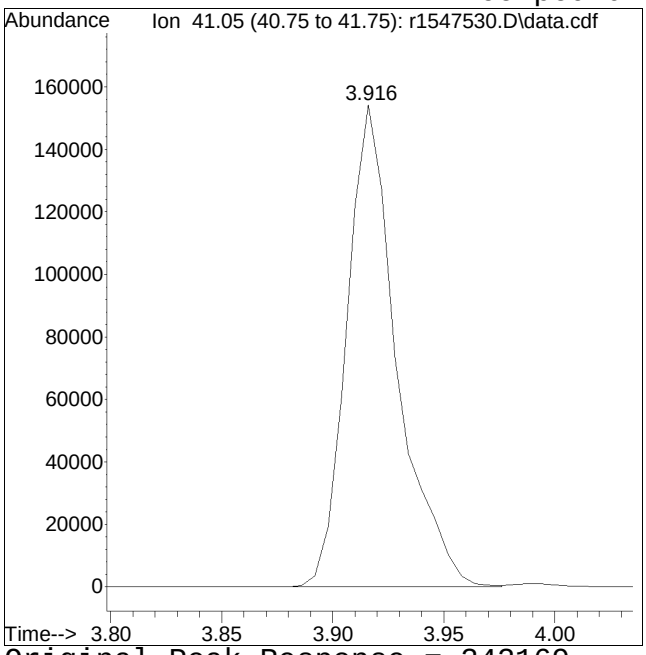


Manual Integration Report

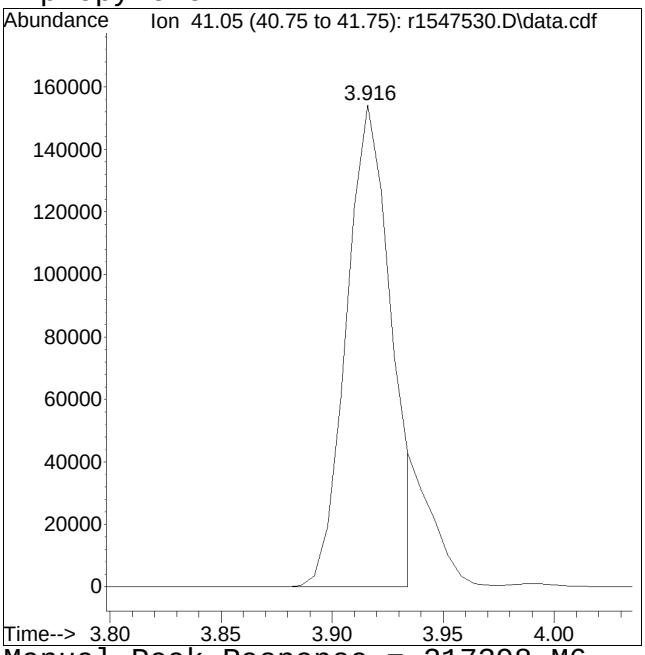
Data Path : O:\Forensics\Data\Airlab15\
Data File : r1547530.D
Date Inj'd : 4/27/2020 0:0: 4
Sample : CTO15-LLSTD10.0

Method : TFS15_240426.M
Operator : AIRLAB15:JMB
Instrument :
Quant Date : 4/27/2024 12:41 pm

Compound #3: propylene



Original Peak Response = 242169



Manual Peak Response = 217398 M6

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

Continuing Calibration

Calibration Verification Summary
Form 7
Air Volatiles

Client	: AKRF, Inc.		**Lab Number**	: L2432670	
Project Name	: BUD NORTH		**Project Number**	: 200112	
Instrument ID	: AIRLAB15		**Calibration Date**	: 06/18/24 14:34	
Lab File ID	: R1548845		**Init. Calib. Date(s)**	: 04/26/24	04/27/24
Sample No	: WG1936045-2		**Init. Calib. Times**	: 22:31	03:27
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	92	.02
chlorodifluoromethane	1.023	0.81	-	20.8	30	69	.03
propylene	0.698	0.686	-	1.7	30	83	.03
propane	0.626	0.697	-	-11.3	30	90	.03
dichlorodifluoromethane	1.082	0.973	-	10.1	30	72	.03
chloromethane	0.412	0.441	-	-7	30	85	.04
Freon-114	1.056	1.144	-	-8.3	30	84	.03
methanol	0.219	0.212	-	3.2	30	81	.04
vinyl chloride	0.613	0.601	-	2	30	74	.03
1,3-butadiene	0.363	0.43	-	-18.5	30	90	.03
butane	0.863	0.897	-	-3.9	30	82	.04
bromomethane	0.476	0.447	-	6.1	30	72	.04
chloroethane	0.319	0.304	-	4.7	30	72	.03
ethanol	0.328	0.403	-	-22.9	30	91	.04
dichlorofluoromethane	1.223	0.98	-	19.9	30	67	.04
vinyl bromide	0.522	0.427	-	18.2	30	61	.03
acrolein	0.203	0.211	-	-3.9	30	78	.03
acetone	0.661	0.727	-	-10	30	86	.04
acetonitrile	0.563	0.545	-	3.2	30	76	.04
trichlorofluoromethane	0.884	0.83	-	6.1	30	71	.03
isopropyl alcohol	0.811	0.778	-	4.1	30	77	.04
acrylonitrile	0.344	0.51	-	-48.3*	30	110	.03
pentane	1.092	1.312	-	-20.1	30	98	.03
ethyl ether	0.735	1.227	-	-66.9*	30	140	.03
1,1-dichloroethene	1.094	1.075	-	1.7	30	74	.03
tertiary butyl alcohol	1.3	1.144	-	12	30	67	.04
methylene chloride	0.741	0.751	-	-1.3	30	77	.04
3-chloropropene	0.99	1.039	-	-4.9	30	80	.03
carbon disulfide	1.89	1.633	-	13.6	30	65	.03
Freon 113	1.331	1.174	-	11.8	30	69	.03
trans-1,2-dichloroethene	1.087	1.036	-	4.7	30	69	.03
1,1-dichloroethane	1.431	1.334	-	6.8	30	71	.03
MTBE	1.568	1.402	-	10.6	30	68	.03
vinyl acetate	1.38	1.212	-	12.2	30	67	.03
2-butanone	1.48	1.458	-	1.5	30	76	.03
cis-1,2-dichloroethene	1.055	1.021	-	3.2	30	71	.03
Ethyl Acetate	0.284	0.284	-	0	30	74	.03
chloroform	1.154	1.08	-	6.4	30	70	.02
Tetrahydrofuran	0.936	0.913	-	2.5	30	75	.02
2,2-dichloropropane	0.831	0.676	-	18.7	30	62	.03
1,2-dichloroethane	0.81	0.754	-	6.9	30	71	.03
1,4-difluorobenzene	1	1	-	0	30	82	.03
hexane	0.437	0.504	-	-15.3	30	73	.03

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: AKRF, Inc.		**Lab Number**	: L2432670	
Project Name	: BUD NORTH		**Project Number**	: 200112	
Instrument ID	: AIRLAB15		**Calibration Date**	: 06/18/24 14:34	
Lab File ID	: R1548845		**Init. Calib. Date(s)**	: 04/26/24	04/27/24
Sample No	: WG1936045-2		**Init. Calib. Times**	: 22:31	03:27
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
diisopropyl ether	0.209	0.209	-	0	30	65	.02
tert-butyl ethyl ether	0.75	0.752	-	-0.3	30	65	.03
1,1,1-trichloroethane	0.337	0.335	-	0.6	30	65	.02
1,1-dichloropropene	0.316	0.324	-	-2.5	30	68	.03
benzene	0.771	0.789	-	-2.3	30	67	.02
carbon tetrachloride	0.278	0.276	-	0.7	30	64	.02
cyclohexane	0.469	0.536	-	-14.3	30	74	.02
tert-amyl methyl ether	0.603	0.567	-	6	30	62	.02
dibromomethane	0.248	0.242	-	2.4	30	64	.03
1,2-dichloropropane	0.321	0.348	-	-8.4	30	70	.02
bromodichloromethane	0.367	0.406	-	-10.6	30	70	.02
1,4-dioxane	0.177	0.201	-	-13.6	30	72	.03
trichloroethene	0.33	0.331	-	-0.3	30	65	.02
2,2,4-trimethylpentane	1.461	1.72	-	-17.7	30	75	.02
methyl methacrylate	0.289	0.361	-	-24.9	30	80	.02
heptane	0.487	0.581	-	-19.3	30	78	.02
cis-1,3-dichloropropene	0.357	0.388	-	-8.7	30	68	.02
4-methyl-2-pentanone	0.554	0.659	-	-19	30	78	.03
trans-1,3-dichloropropene	0.272	0.292	-	-7.4	30	66	.02
1,1,2-trichloroethane	0.319	0.333	-	-4.4	30	68	.02
chlorobenzene-D5	1	1	-	0	30	88	.02
toluene	6.295	5.853	-	7	30	68	.02
1,3-dichloropropane	2.567	2.272	-	11.5	30	65	.02
2-hexanone	3.039	3.406	-	-12.1	30	76	.02
dibromochloromethane	2.437	2.383	-	2.2	30	68	0
1,2-dibromoethane	2.775	2.485	-	10.5	30	66	.02
butyl acetate	0.659	0.579	-	12.1	30	64	.02
octane	2.232	2.025	-	9.3	30	66	.02
tetrachloroethene	2.476	2.182	-	11.9	30	65	.02
1,1,1,2-tetrachloroethane	2.017	1.741	-	13.7	30	62	.02
chlorobenzene	4.656	4.338	-	6.8	30	68	.02
ethylbenzene	8.068	7.75	-	3.9	30	68	0
m+p-xylene	6.316	6.104	-	3.4	30	68	.02
bromoform	2.161	2.065	-	4.4	30	66	.02
styrene	4.97	4.538	-	8.7	30	65	0
1,1,2,2-tetrachloroethane	4.325	4.48	-	-3.6	30	73	0
o-xylene	6.313	6.286	-	0.4	30	69	.02
1,2,3-trichloropropane	3.249	2.894	-	10.9	30	66	0
nonane	4.81	4.697	-	2.3	30	71	0
isopropylbenzene	7.987	6.935	-	13.2	30	64	0
bromobenzene	4.261	3.809	-	10.6	30	66	0
2-chlorotoluene	2.342	2.072	-	11.5	30	64	0
n-propylbenzene	2.645	2.402	-	9.2	30	65	.02

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: AKRF, Inc.		**Lab Number**	: L2432670	
Project Name	: BUD NORTH		**Project Number**	: 200112	
Instrument ID	: AIRLAB15		**Calibration Date**	: 06/18/24 14:34	
Lab File ID	: R1548845		**Init. Calib. Date(s)**	: 04/26/24	04/27/24
Sample No	: WG1936045-2		**Init. Calib. Times**	: 22:31	03:27
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4-chlorotoluene	2.306	2.002	-	13.2	30	63	0
4-ethyl toluene	8.331	7.438	-	10.7	30	63	0
1,3,5-trimethylbenzene	8.048	7.278	-	9.6	30	66	0
tert-butylbenzene	6.998	6.511	-	7	30	65	0
1,2,4-trimethylbenzene	6.858	6.433	-	6.2	30	64	0
decane	6.491	6.547	-	-0.9	30	71	0
Benzyl Chloride	3.992	3.791	-	5	30	61	0
1,3-dichlorobenzene	4.814	4.433	-	7.9	30	64	0
1,4-dichlorobenzene	4.868	4.428	-	9	30	64	0
sec-butylbenzene	10.167	8.633	-	15.1	30	60	0
p-isopropyltoluene	7.714	5.969	-	22.6	30	54	0
1,2-dichlorobenzene	4.595	3.564	-	22.4	30	54	.02
n-butylbenzene	8.137	7.854	-	3.5	30	68	0
1,2-dibromo-3-chloropropan	1.544	1.385	-	10.3	30	62	0
undecane	6.86	7.213	-	-5.1	30	71	0
dodecane	6.212	6.739	-	-8.5	30	65	.02
1,2,4-trichlorobenzene	3.378	2.983	-	11.7	30	55	.02
naphthalene	9.022	7.942	-	12	30	57	.02
1,2,3-trichlorobenzene	3.055	2.557	-	16.3	30	55	0
hexachlorobutadiene	2.925	2.442	-	16.5	30	56	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: AKRF, Inc.		**Lab Number**	: L2432670	
Project Name	: BUD NORTH		**Project Number**	: 200112	
Instrument ID	: AIRLAB15		**Calibration Date**	: 06/20/24 12:39	
Lab File ID	: R1548900		**Init. Calib. Date(s)**	: 04/26/24	04/27/24
Sample No	: WG1937252-2		**Init. Calib. Times**	: 22:31	03:27
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	104	.02
chlorodifluoromethane	1.023	0.877	-	14.3	30	85	.02
propylene	0.698	0.536	-	23.2	30	73	.02
propane	0.626	0.767	-	-22.5	30	112	.02
dichlorodifluoromethane	1.082	1.061	-	1.9	30	89	.02
chloromethane	0.412	0.459	-	-11.4	30	100	.03
Freon-114	1.056	1.07	-	-1.3	30	89	.03
methanol	0.219	0.268	-	-22.4	30	116	.03
vinyl chloride	0.613	0.611	-	0.3	30	86	.02
1,3-butadiene	0.363	0.413	-	-13.8	30	98	.02
butane	0.863	0.842	-	2.4	30	87	.03
bromomethane	0.476	0.427	-	10.3	30	78	.03
chloroethane	0.319	0.284	-	11	30	76	.02
ethanol	0.328	0.399	-	-21.6	30	101	.03
dichlorofluoromethane	1.223	0.976	-	20.2	30	76	.03
vinyl bromide	0.522	0.392	-	24.9	30	64	.03
acrolein	0.203	0.22	-	-8.4	30	92	.03
acetone	0.661	0.684	-	-3.5	30	91	.03
acetonitrile	0.563	0.516	-	8.3	30	81	.03
trichlorofluoromethane	0.884	0.842	-	4.8	30	81	.03
isopropyl alcohol	0.811	0.79	-	2.6	30	88	.03
acrylonitrile	0.344	0.509	-	-48*	30	124	.03
pentane	1.092	1.169	-	-7.1	30	98	.03
ethyl ether	0.735	1.309	-	-78.1*	30	169	.03
1,1-dichloroethene	1.094	0.99	-	9.5	30	77	.03
tertiary butyl alcohol	1.3	1.049	-	19.3	30	69	.04
methylene chloride	0.741	0.765	-	-3.2	30	89	.03
3-chloropropene	0.99	0.834	-	15.8	30	73	.02
carbon disulfide	1.89	1.592	-	15.8	30	72	.02
Freon 113	1.331	1.009	-	24.2	30	67	.02
trans-1,2-dichloroethene	1.087	0.961	-	11.6	30	72	.03
1,1-dichloroethane	1.431	1.184	-	17.3	30	71	.03
MTBE	1.568	1.232	-	21.4	30	68	.03
vinyl acetate	1.38	1.195	-	13.4	30	74	.03
2-butanone	1.48	1.292	-	12.7	30	76	.03
cis-1,2-dichloroethene	1.055	0.933	-	11.6	30	73	.02
Ethyl Acetate	0.284	0.239	-	15.8	30	71	.03
chloroform	1.154	1.118	-	3.1	30	82	.02
Tetrahydrofuran	0.936	0.81	-	13.5	30	75	.02
2,2-dichloropropane	0.831	0.697	-	16.1	30	72	.03
1,2-dichloroethane	0.81	0.75	-	7.4	30	80	.02
1,4-difluorobenzene	1	1	-	0	30	84	.02
hexane	0.437	0.534	-	-22.2	30	79	.02

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: AKRF, Inc.		**Lab Number**	: L2432670	
Project Name	: BUD NORTH		**Project Number**	: 200112	
Instrument ID	: AIRLAB15		**Calibration Date**	: 06/20/24 12:39	
Lab File ID	: R1548900		**Init. Calib. Date(s)**	: 04/26/24	04/27/24
Sample No	: WG1937252-2		**Init. Calib. Times**	: 22:31	03:27
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
diisopropyl ether	0.209	0.225	-	-7.7	30	72	.02
tert-butyl ethyl ether	0.75	0.782	-	-4.3	30	69	.03
1,1,1-trichloroethane	0.337	0.359	-	-6.5	30	70	.02
1,1-dichloropropene	0.316	0.33	-	-4.4	30	70	.02
benzene	0.771	0.852	-	-10.5	30	74	.02
carbon tetrachloride	0.278	0.325	-	-16.9	30	77	.02
cyclohexane	0.469	0.562	-	-19.8	30	79	.02
tert-amyl methyl ether	0.603	0.55	-	8.8	30	61	.02
dibromomethane	0.248	0.249	-	-0.4	30	67	.02
1,2-dichloropropane	0.321	0.332	-	-3.4	30	68	.02
bromodichloromethane	0.367	0.448	-	-22.1	30	78	.02
1,4-dioxane	0.177	0.198	-	-11.9	30	72	.02
trichloroethene	0.33	0.333	-	-0.9	30	67	.01
2,2,4-trimethylpentane	1.461	1.756	-	-20.2	30	78	.01
methyl methacrylate	0.289	0.334	-	-15.6	30	75	.01
heptane	0.487	0.564	-	-15.8	30	77	.02
cis-1,3-dichloropropene	0.357	0.388	-	-8.7	30	69	.02
4-methyl-2-pentanone	0.554	0.626	-	-13	30	75	.02
trans-1,3-dichloropropene	0.272	0.295	-	-8.5	30	68	0
1,1,2-trichloroethane	0.319	0.309	-	3.1	30	64	.02
chlorobenzene-D5	1	1	-	0	30	99	0
toluene	6.295	5.283	-	16.1	30	68	0
1,3-dichloropropane	2.567	2.215	-	13.7	30	71	0
2-hexanone	3.039	2.979	-	2	30	75	.02
dibromochloromethane	2.437	2.087	-	14.4	30	67	0
1,2-dibromoethane	2.775	2.211	-	20.3	30	65	.02
butyl acetate	0.659	0.513	-	22.2	30	64	.02
octane	2.232	1.961	-	12.1	30	71	.02
tetrachloroethene	2.476	1.965	-	20.6	30	65	0
1,1,1,2-tetrachloroethane	2.017	1.561	-	22.6	30	62	0
chlorobenzene	4.656	3.914	-	15.9	30	69	0
ethylbenzene	8.068	6.786	-	15.9	30	67	0
m+p-xylene	6.316	5.433	-	14	30	68	0
bromoform	2.161	1.748	-	19.1	30	62	0
styrene	4.97	3.807	-	23.4	30	61	0
1,1,2,2-tetrachloroethane	4.325	4.027	-	6.9	30	73	0
o-xylene	6.313	5.483	-	13.1	30	68	0
1,2,3-trichloropropane	3.249	2.741	-	15.6	30	70	0
nonane	4.81	4.364	-	9.3	30	73	0
isopropylbenzene	7.987	5.946	-	25.6	30	61	0
bromobenzene	4.261	3.593	-	15.7	30	70	0
2-chlorotoluene	2.342	1.848	-	21.1	30	64	0
n-propylbenzene	2.645	2.163	-	18.2	30	66	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: AKRF, Inc.		**Lab Number**	: L2432670	
Project Name	: BUD NORTH		**Project Number**	: 200112	
Instrument ID	: AIRLAB15		**Calibration Date**	: 06/20/24 12:39	
Lab File ID	: R1548900		**Init. Calib. Date(s)**	: 04/26/24	04/27/24
Sample No	: WG1937252-2		**Init. Calib. Times**	: 22:31	03:27
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4-chlorotoluene	2.306	1.818	-	21.2	30	64	0
4-ethyl toluene	8.331	6.539	-	21.5	30	62	0
1,3,5-trimethylbenzene	8.048	6.203	-	22.9	30	63	0
tert-butylbenzene	6.998	6.056	-	13.5	30	68	0
1,2,4-trimethylbenzene	6.858	5.605	-	18.3	30	62	0
decane	6.491	6.014	-	7.3	30	73	0
Benzyl Chloride	3.992	3.315	-	17	30	59	0
1,3-dichlorobenzene	4.814	3.669	-	23.8	30	59	0
1,4-dichlorobenzene	4.868	3.589	-	26.3	30	58	0
sec-butylbenzene	10.167	7.795	-	23.3	30	60	0
p-isopropyltoluene	7.714	7.026	-	8.9	30	70	0
1,2-dichlorobenzene	4.595	2.71	-	41*	30	46	0
n-butylbenzene	8.137	6.784	-	16.6	30	66	0
1,2-dibromo-3-chloropropan	1.544	1.336	-	13.5	30	67	0
undecane	6.86	6.672	-	2.7	30	74	0
dodecane	6.212	6.713	-	-8.1	30	73	0
1,2,4-trichlorobenzene	3.378	2.528	-	25.2	30	52	0
naphthalene	9.022	7.558	-	16.2	30	61	.02
1,2,3-trichlorobenzene	3.055	2.423	-	20.7	30	58	0
hexachlorobutadiene	2.925	2.174	-	25.7	30	56	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548845.D
Acq On : 18 Jun 2024 2:34 PM
Operator : AIRLAB15:JMB
Sample : WG1936045-2,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 15:43:49 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 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	92	0.02
2		chlorodifluoromethane	1.023	0.810	20.8	69	0.03
3		propylene	0.698	0.686	1.7	83	0.03
4		propane	0.626	0.697	-11.3	90	0.03
5		dichlorodifluoromethane	1.082	0.973	10.1	72	0.03
6	C	chloromethane	0.412	0.441	-7.0	85	0.04
7		Freon-114	1.056	1.144	-8.3	84	0.03
8	C	methanol	0.219	0.212	3.2	81	0.04
9	C	vinyl chloride	0.613	0.601	2.0	74	0.03
10	C	1,3-butadiene	0.363	0.430	-18.5	90	0.03
11		butane	0.863	0.897	-3.9	82	0.04
13	C	bromomethane	0.476	0.447	6.1	72	0.04
14	C	chloroethane	0.319	0.304	4.7	72	0.03
15		ethanol	0.328	0.403	-22.9	91	0.04
16		dichlorofluoromethane	1.223	0.980	19.9	67	0.04
17	C	vinyl bromide	0.522	0.427	18.2	61	0.03
18	C	acrolein	0.203	0.211	-3.9	78	0.03
19		acetone	0.661	0.727	-10.0	86	0.04
20	C	acetonitrile	0.563	0.545	3.2	76	0.04
21		trichlorofluoromethane	0.884	0.830	6.1	71	0.03
22		isopropyl alcohol	0.811	0.778	4.1	77	0.04
23	C	acrylonitrile	0.344	0.510	-48.3#	110	0.03
24		pentane	1.092	1.312	-20.1	98	0.03
25		ethyl ether	0.735	1.227	-66.9#	140	0.03
26	C	1,1-dichloroethene	1.094	1.075	1.7	74	0.03
27		tertiary butyl alcohol	1.300	1.144	12.0	67	0.04
28	C	methylene chloride	0.741	0.751	-1.3	77	0.04
29	C	3-chloropropene	0.990	1.039	-4.9	80	0.03
30	C	carbon disulfide	1.890	1.633	13.6	65	0.03
31		Freon 113	1.331	1.174	11.8	69	0.03
32		trans-1,2-dichloroethene	1.087	1.036	4.7	69	0.03
33	C	1,1-dichloroethane	1.431	1.334	6.8	71	0.03
34	C	MTBE	1.568	1.402	10.6	68	0.03
35	C	vinyl acetate	1.380	1.212	12.2	67	0.03
36	C	2-butanone	1.480	1.458	1.5	76	0.03
37		cis-1,2-dichloroethene	1.055	1.021	3.2	71	0.03
38		Ethyl Acetate	0.284	0.284	0.0	74	0.03
39	C	chloroform	1.154	1.080	6.4	70	0.02
40		Tetrahydrofuran	0.936	0.913	2.5	75	0.02

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548845.D
Acq On : 18 Jun 2024 2:34 PM
Operator : AIRLAB15:JMB
Sample : WG1936045-2,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 15:43:49 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 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	0.831	0.676	18.7	62	0.03
42	C	1,2-dichloroethane	0.810	0.754	6.9	71	0.03
43	I	1,4-difluorobenzene	1.000	1.000	0.0	82	0.03
44	C	hexane	0.437	0.504	-15.3	73	0.03
45		diisopropyl ether	0.209	0.209	0.0	65	0.02
46		tert-butyl ethyl ether	0.750	0.752	-0.3	65	0.03
48	C	1,1,1-trichloroethane	0.337	0.335	0.6	65	0.02
49		1,1-dichloropropene	0.316	0.324	-2.5	68	0.03
50	C	benzene	0.771	0.789	-2.3	67	0.02
52	C	carbon tetrachloride	0.278	0.276	0.7	64	0.02
53		cyclohexane	0.469	0.536	-14.3	74	0.02
54		tert-amyl methyl ether	0.603	0.567	6.0	62	0.02
55		dibromomethane	0.248	0.242	2.4	64	0.03
56	C	1,2-dichloropropane	0.321	0.348	-8.4	70	0.02
57		bromodichloromethane	0.367	0.406	-10.6	70	0.02
58	C	1,4-dioxane	0.177	0.201	-13.6	72	0.03
59	C	trichloroethene	0.330	0.331	-0.3	65	0.02
60	C	2,2,4-trimethylpentane	1.461	1.720	-17.7	75	0.02
61		methyl methacrylate	0.289	0.361	-24.9	80	0.02
62		heptane	0.487	0.581	-19.3	78	0.02
63	C	cis-1,3-dichloropropene	0.357	0.388	-8.7	68	0.02
64	C	4-methyl-2-pentanone	0.554	0.659	-19.0	78	0.03
65		trans-1,3-dichloropropene	0.272	0.292	-7.4	66	0.02
66	C	1,1,2-trichloroethane	0.319	0.333	-4.4	68	0.02
67	I	chlorobenzene-D5	1.000	1.000	0.0	88	0.02
68	C	toluene	6.295	5.853	7.0	68	0.02
71		1,3-dichloropropane	2.567	2.272	11.5	65	0.02
72		2-hexanone	3.039	3.406	-12.1	76	0.02
74		dibromochloromethane	2.437	2.383	2.2	68	0.00
75	C	1,2-dibromoethane	2.775	2.485	10.5	66	0.02
76		butyl acetate	0.659	0.579	12.1	64	0.02
77		octane	2.232	2.025	9.3	66	0.02
78	C	tetrachloroethene	2.476	2.182	11.9	65	0.02
79		1,1,1,2-tetrachloroethane	2.017	1.741	13.7	62	0.02
80	C	chlorobenzene	4.656	4.338	6.8	68	0.02
81	C	ethylbenzene	8.068	7.750	3.9	68	0.00
83	C	m+p-xylene	6.316	6.104	3.4	68	0.02

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548845.D
Acq On : 18 Jun 2024 2:34 PM
Operator : AIRLAB15:JMB
Sample : WG1936045-2,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 15:43:49 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 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	2.161	2.065	4.4	66	0.02
85	C	styrene	4.970	4.538	8.7	65	0.00
86	C	1,1,2,2-tetrachloroethane	4.325	4.480	-3.6	73	0.00
87	C	o-xylene	6.313	6.286	0.4	69	0.02
88		1,2,3-trichloropropane	3.249	2.894	10.9	66	0.00
89		nonane	4.810	4.697	2.3	71	0.00
91	C	isopropylbenzene	7.987	6.935	13.2	64	0.00
92		bromobenzene	4.261	3.809	10.6	66	0.00
93		2-chlorotoluene	2.342	2.072	11.5	64	0.00
94		n-propylbenzene	2.645	2.402	9.2	65	0.02
95		4-chlorotoluene	2.306	2.002	13.2	63	0.00
96		4-ethyl toluene	8.331	7.438	10.7	63	0.00
97		1,3,5-trimethylbenzene	8.048	7.278	9.6	66	0.00
98		tert-butylbenzene	6.998	6.511	7.0	65	0.00
99		1,2,4-trimethylbenzene	6.858	6.433	6.2	64	0.00
100		decane	6.491	6.547	-0.9	71	0.00
101	C	Benzyl Chloride	3.992	3.791	5.0	61	0.00
102		1,3-dichlorobenzene	4.814	4.433	7.9	64	0.00
103	C	1,4-dichlorobenzene	4.868	4.428	9.0	64	0.00
104		sec-butylbenzene	10.167	8.633	15.1	60#	0.00
106		p-isopropyltoluene	7.714	5.969	22.6	54#	0.00
107		1,2-dichlorobenzene	4.595	3.564	22.4	54#	0.02
108		n-butylbenzene	8.137	7.854	3.5	68	0.00
111	C	1,2-dibromo-3-chloropropane	1.544	1.385	10.3	62	0.00
112		undecane	6.860	7.213	-5.1	71	0.00
114		dodecane	6.212	6.739	-8.5	65	0.02
115	C	1,2,4-trichlorobenzene	3.378	2.983	11.7	55#	0.02
116		naphthalene	9.022	7.942	12.0	57#	0.02
117		1,2,3-trichlorobenzene	3.055	2.557	16.3	55#	0.00
119	C	hexachlorobutadiene	2.925	2.442	16.5	56#	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 1

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548845.D
Acq On : 18 Jun 2024 2:34 PM
Operator : AIRLAB15:JMB
Sample : WG1936045-2,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 15:43:49 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618T\r1548845.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) bromochloromethane	9.142	49	309658	10.000	ppbV		0.02
Standard Area = 309658			Recovery = 100.00%				
43) 1,4-difluorobenzene	11.373	114	833704	10.000	ppbV		0.03
Standard Area = 833704			Recovery = 100.00%				
67) chlorobenzene-D5	16.058	54	146665	10.000	ppbV		0.02
Standard Area = 146665			Recovery = 100.00%				
System Monitoring Compounds							
Target Compounds							Qvalue
2) chlorodifluoromethane	3.916	51	250930	7.925	ppbV		99
3) propylene	3.946	41	212448M6	9.829	ppbV		
4) propane	3.970	29	215751	11.123	ppbV		90
5) dichlorodifluoromethane	4.018	85	301205	8.992	ppbV		100
6) chloromethane	4.186	50	136405	10.704	ppbV		99
7) Freon-114	4.288	85	354224	10.831	ppbV		90
8) methanol	4.360	31	328191	48.337	ppbV		97
9) vinyl chloride	4.414	62	186071	9.804	ppbV		99
10) 1,3-butadiene	4.558	54	133028	11.842	ppbV		93
11) butane	4.618	43	277827	10.399	ppbV		99
13) bromomethane	4.846	94	138541	9.391	ppbV		98
14) chloroethane	5.032	64	94020	9.514	ppbV		100
15) ethanol	5.170	31	624373	61.545	ppbV		93
16) dichlorofluoromethane	5.146	67	303406	8.011	ppbV	#	99
17) vinyl bromide	5.413	106	132257	8.185	ppbV		99
18) acrolein	5.543	56	65265	10.358	ppbV	#	93
19) acetone	5.683	43	1125919	55.026	ppbV		99
20) acetonitrile	5.400	41	168656	9.675	ppbV		99
21) trichlorofluoromethane	5.873	101	256988	9.390	ppbV		99
22) isopropyl alcohol	5.973	45	602434	23.995	ppbV		99
23) acrylonitrile	6.203	53	157896	14.802	ppbV		96
24) pentane	6.273	43	406187	12.014	ppbV		95
25) ethyl ether	6.303	31	379968	16.699	ppbV	#	80
26) 1,1-dichloroethene	6.576	61	332900	9.831	ppbV		96
27) tertiary butyl alcohol	6.648	59	354174	8.795	ppbV		93
28) methylene chloride	6.726	49	232474	10.127	ppbV		93
29) 3-chloropropene	6.852	41	321889	10.499	ppbV		98
30) carbon disulfide	7.026	76	505808	8.644	ppbV		98
31) Freon 113	7.020	101	363386	8.815	ppbV		97

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548845.D
Acq On : 18 Jun 2024 2:34 PM
Operator : AIRLAB15:JMB
Sample : WG1936045-2,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 15:43:49 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618T\r1548845.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	320839	9.527	ppbV		96
33) 1,1-dichloroethane	8.000	63	413167	9.321	ppbV		99
34) MTBE	8.075	73	434086	8.941	ppbV		97
35) vinyl acetate	8.183	43	375269	8.779	ppbV		97
36) 2-butanone	8.450	43	451380	9.850	ppbV		96
37) cis-1,2-dichloroethene	8.958	61	316078	9.676	ppbV		96
38) Ethyl Acetate	9.225	61	87849	9.974	ppbV		80
39) chloroform	9.292	83	334410	9.356	ppbV		96
40) Tetrahydrofuran	9.733	42	282838	9.757	ppbV		96
41) 2,2-dichloropropane	9.317	77	209201	8.130	ppbV		91
42) 1,2-dichloroethane	10.133	62	233371	9.305	ppbV		98
44) hexane	9.208	57	420199	11.524	ppbV		81
45) diisopropyl ether	9.200	87	174231	10.012	ppbV		85
46) tert-butyl ethyl ether	9.817	59	626539	10.023	ppbV		98
48) 1,1,1-trichloroethane	10.417	97	279674	9.953	ppbV		92
49) 1,1-dichloropropene	10.787	75	270505	10.273	ppbV		95
50) benzene	10.947	78	657806	10.228	ppbV		98
52) carbon tetrachloride	11.120	117	230026	9.934	ppbV		97
53) cyclohexane	11.267	56	447058	11.441	ppbV		97
54) tert-amyl methyl ether	11.640	73	472952	9.410	ppbV		96
55) dibromomethane	11.867	93	202155	9.789	ppbV		98
56) 1,2-dichloropropane	11.893	63	290157	10.853	ppbV		98
57) bromodichloromethane	12.120	83	338440	11.048	ppbV		99
58) 1,4-dioxane	12.167	88	167826	11.381	ppbV		99
59) trichloroethene	12.173	130	276090	10.036	ppbV		100
60) 2,2,4-trimethylpentane	12.220	57	1434165	11.775	ppbV		98
61) methyl methacrylate	12.413	41	300598	12.464	ppbV		94
62) heptane	12.533	43	483990	11.924	ppbV		97
63) cis-1,3-dichloropropene	13.183	75	323235	10.875	ppbV		98
64) 4-methyl-2-pentanone	13.225	43	549086	11.879	ppbV		96
65) trans-1,3-dichloropropene	13.808	75	243673	10.731	ppbV		97
66) 1,1,2-trichloroethane	14.000	97	277591	10.441	ppbV		97
68) toluene	14.317	91	858403	9.297	ppbV		99
71) 1,3-dichloropropane	14.342	76	333158	8.850	ppbV		91
72) 2-hexanone	14.592	43	499540	11.209	ppbV	#	97
74) dibromochloromethane	14.750	129	349441	9.775	ppbV		97
75) 1,2-dibromoethane	15.000	107	364409	8.953	ppbV		97
76) butyl acetate	15.233	73	84912	8.782	ppbV		80
77) octane	15.325	85	297013	9.071	ppbV		88
78) tetrachloroethene	15.458	166	320022	8.813	ppbV		97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548845.D
Acq On : 18 Jun 2024 2:34 PM
Operator : AIRLAB15:JMB
Sample : WG1936045-2,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 15:43:49 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618T\r1548845.D
Sub List : Default-LCS-AP2 - All compounds listed

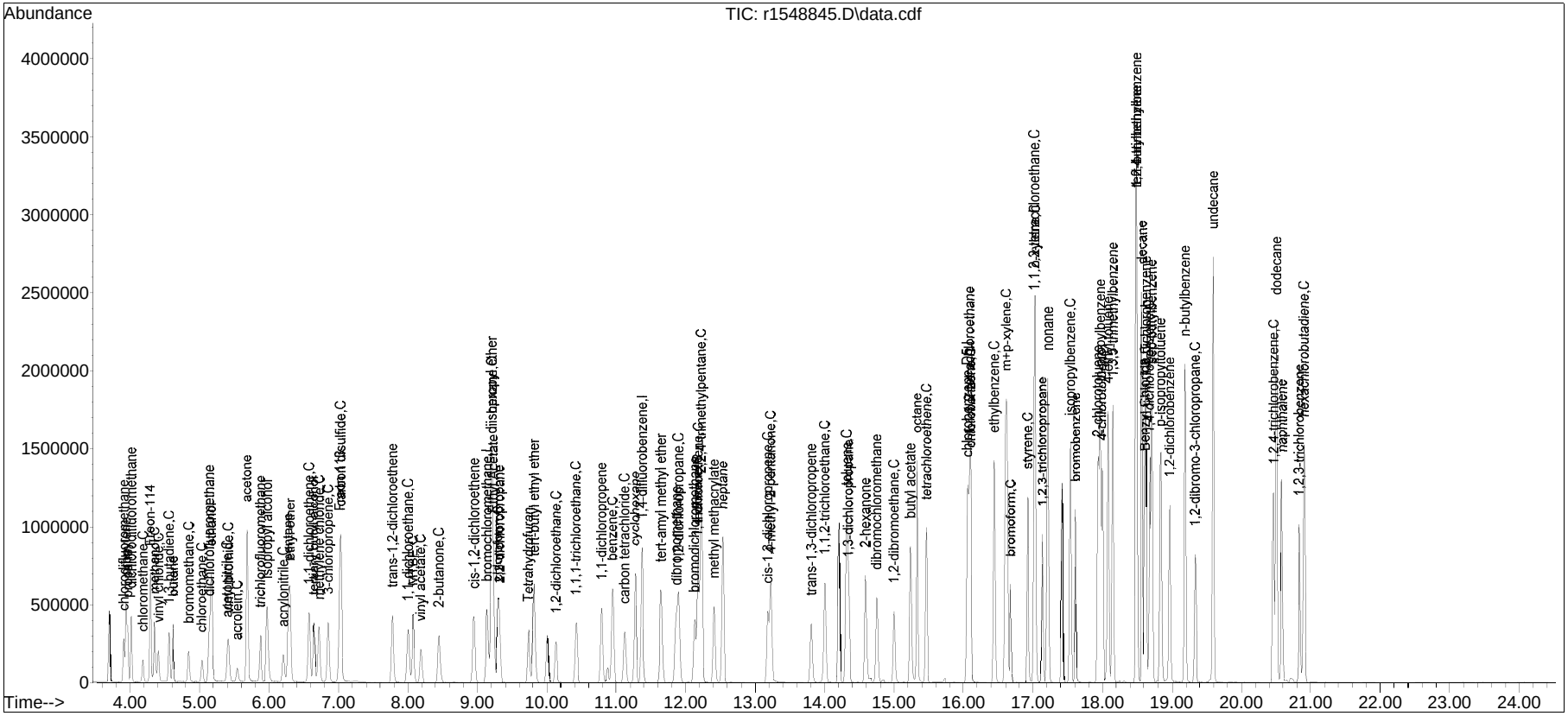
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
79) 1,1,1,2-tetrachloroethane	16.083	131	255416	8.635	ppbV		97
80) chlorobenzene	16.100	112	636192	9.317	ppbV		99
81) ethylbenzene	16.442	91	1136632	9.605	ppbV		97
83) m+p-xylene	16.608	91	1790547	19.328	ppbV		99
84) bromoform	16.675	173	302888	9.555	ppbV		96
85) styrene	16.925	104	665605	9.131	ppbV		98
86) 1,1,2,2-tetrachloroethane	17.017	83	657018	10.358	ppbV		98
87) o-xylene	17.025	91	921901	9.957	ppbV		95
88) 1,2,3-trichloropropane	17.133	75	424517	8.909	ppbV		97
89) nonane	17.217	43	688918	9.765	ppbV		98
91) isopropylbenzene	17.533	105	1017183	8.683	ppbV		96
92) bromobenzene	17.608	77	558601	8.939	ppbV		98
93) 2-chlorotoluene	17.933	126	303934	8.849	ppbV		94
94) n-propylbenzene	17.967	120	352357	9.082	ppbV		98
95) 4-chlorotoluene	17.992	126	293628	8.682	ppbV		94
96) 4-ethyl toluene	18.083	105	1090939	8.928	ppbV		94
97) 1,3,5-trimethylbenzene	18.150	105	1067412	9.043	ppbV		98
98) tert-butylbenzene	18.492	119	954952	9.304	ppbV		95
99) 1,2,4-trimethylbenzene	18.492	105	943508	9.381	ppbV		95
100) decane	18.567	57	960167	10.086	ppbV		99
101) Benzyl Chloride	18.608	91	555996	9.497	ppbV		96
102) 1,3-dichlorobenzene	18.625	146	650096	9.208	ppbV		98
103) 1,4-dichlorobenzene	18.675	146	649496	9.097	ppbV		96
104) sec-butylbenzene	18.708	105	1266118	8.491	ppbV		99
106) p-isopropyltoluene	18.833	119	875491	7.739	ppbV		100
107) 1,2-dichlorobenzene	18.967	146	522686	7.757	ppbV		95
108) n-butylbenzene	19.183	91	1151885	9.652	ppbV		94
111) 1,2-dibromo-3-chloropr...	19.333	75	203163	8.969	ppbV		95
112) undecane	19.592	57	1057834	10.514	ppbV	#	96
114) dodecane	20.508	57	988408	10.849	ppbV		99
115) 1,2,4-trichlorobenzene	20.467	180	437573	8.832	ppbV		98
116) naphthalene	20.583	128	1164858	8.803	ppbV		99
117) 1,2,3-trichlorobenzene	20.833	180	374974	8.370	ppbV		94
119) hexachlorobutadiene	20.900	225	358204	8.350	ppbV		94

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

Sub List : Default-LCS-AP2 - All compounds listed8T\r1548845.D

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548845.D
Acq On : 18 Jun 2024 2:34 PM
Operator : AIRLAB15:JMB
Sample : WG1936045-2,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 15:43:49 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

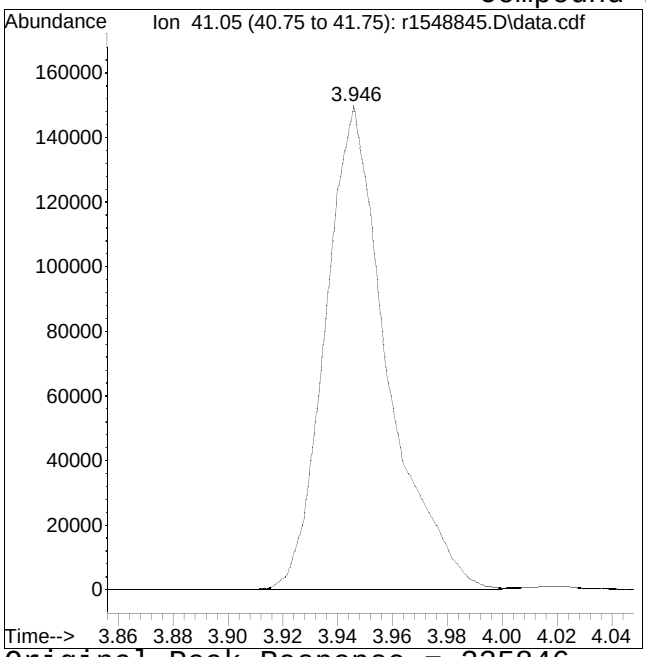


Manual Integration Report

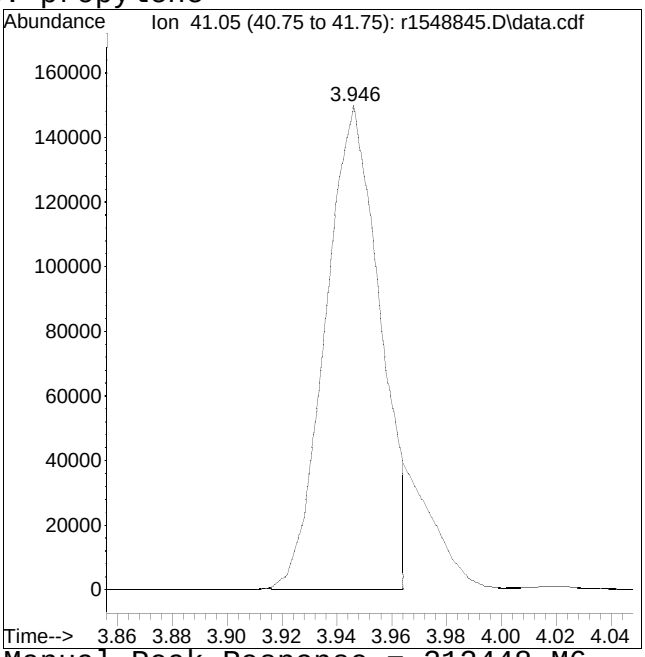
Data Path : O:\Forensics\Data\Airlab15\
Data File : r1548845.D
Date Inj'd : 6/18/2020 0:2: 4
Sample : WG1936045-2,3,250,250

Method : TFS15_240426.M
Operator : AIRLAB15:JMB
Instrument :
Quant Date : 6/18/2024 3:43 pm

Compound #3: propylene



Original Peak Response = 235846



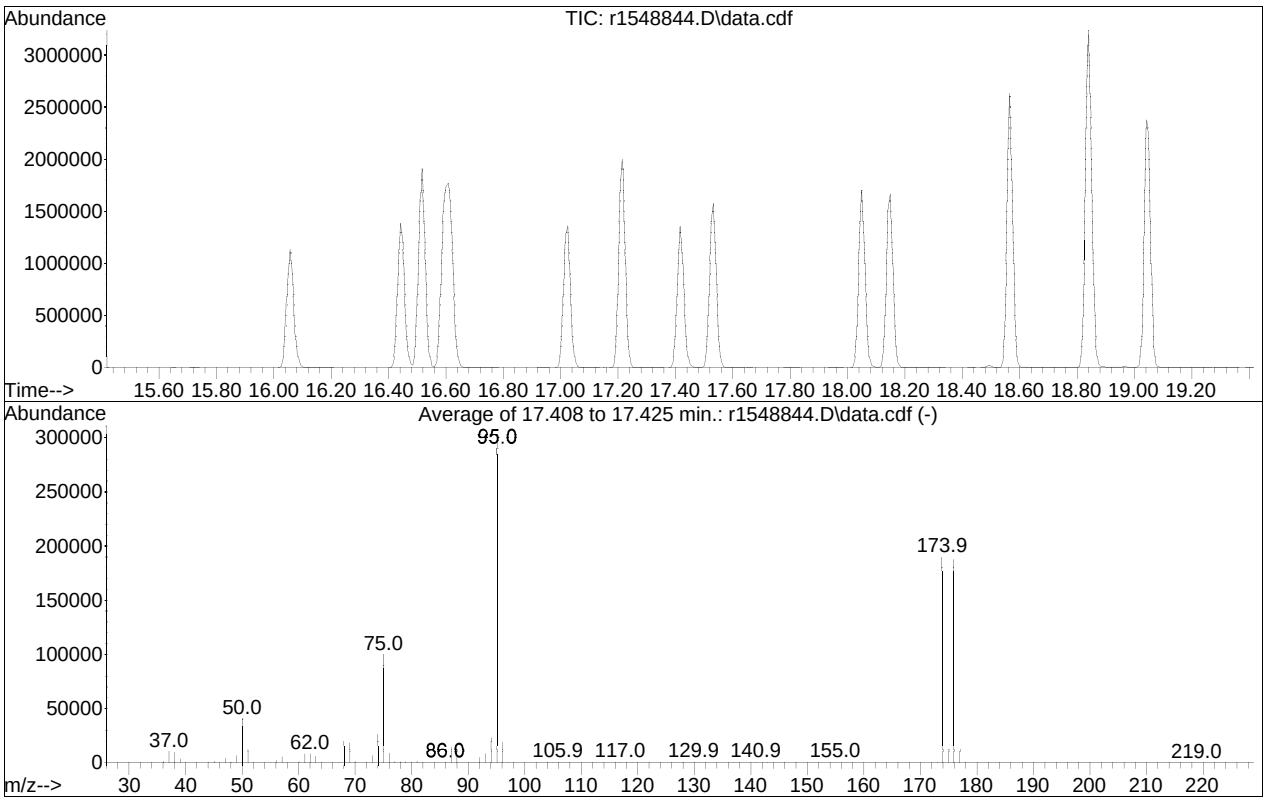
Manual Peak Response = 212448 M6

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

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548844.D
Acq On : 18 Jun 2024 1:54 PM
Operator : AIRLAB15:JMB
Sample : WG1936045-1,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Sat Apr 27 12:39:19 2024



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	13.6	40471	PASS
75	95	30	66	33.6	99572	PASS
95	95	100	100	100.0	296654	PASS
96	95	5	9	6.5	19233	PASS
173	174	0.00	2	0.6	1090	PASS
174	95	50	120	64.0	189897	PASS
175	174	4	9	6.9	13124	PASS
176	174	93	101	98.9	187763	PASS
177	176	5	9	6.6	12435	PASS

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\06\0620T\
Data File : r1548900.D
Acq On : 20 Jun 2024 12:39 PM
Operator : AIRLAB15:TPH
Sample : WG1937252-2,3,250,250
Misc : WG1937252,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 21 07:05:42 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0620T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 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	104	0.02
2		chlorodifluoromethane	1.023	0.877	14.3	85	0.02
3		propylene	0.698	0.536	23.2	73	0.02
4		propane	0.626	0.767	-22.5	112	0.02
5		dichlorodifluoromethane	1.082	1.061	1.9	89	0.02
6	C	chloromethane	0.412	0.459	-11.4	100	0.03
7		Freon-114	1.056	1.070	-1.3	89	0.03
8	C	methanol	0.219	0.268	-22.4	116	0.03
9	C	vinyl chloride	0.613	0.611	0.3	86	0.02
10	C	1,3-butadiene	0.363	0.413	-13.8	98	0.02
11		butane	0.863	0.842	2.4	87	0.03
13	C	bromomethane	0.476	0.427	10.3	78	0.03
14	C	chloroethane	0.319	0.284	11.0	76	0.02
15		ethanol	0.328	0.399	-21.6	101	0.03
16		dichlorofluoromethane	1.223	0.976	20.2	76	0.03
17	C	vinyl bromide	0.522	0.392	24.9	64	0.03
18	C	acrolein	0.203	0.220	-8.4	92	0.03
19		acetone	0.661	0.684	-3.5	91	0.03
20	C	acetonitrile	0.563	0.516	8.3	81	0.03
21		trichlorofluoromethane	0.884	0.842	4.8	81	0.03
22		isopropyl alcohol	0.811	0.790	2.6	88	0.03
23	C	acrylonitrile	0.344	0.509	-48.0#	124	0.03
24		pentane	1.092	1.169	-7.1	98	0.03
25		ethyl ether	0.735	1.309	-78.1#	169#	0.03
26	C	1,1-dichloroethene	1.094	0.990	9.5	77	0.03
27		tertiary butyl alcohol	1.300	1.049	19.3	69	0.04
28	C	methylene chloride	0.741	0.765	-3.2	89	0.03
29	C	3-chloropropene	0.990	0.834	15.8	73	0.02
30	C	carbon disulfide	1.890	1.592	15.8	72	0.02
31		Freon 113	1.331	1.009	24.2	67	0.02
32		trans-1,2-dichloroethene	1.087	0.961	11.6	72	0.03
33	C	1,1-dichloroethane	1.431	1.184	17.3	71	0.03
34	C	MTBE	1.568	1.232	21.4	68	0.03
35	C	vinyl acetate	1.380	1.195	13.4	74	0.03
36	C	2-butanone	1.480	1.292	12.7	76	0.03
37		cis-1,2-dichloroethene	1.055	0.933	11.6	73	0.02
38		Ethyl Acetate	0.284	0.239	15.8	71	0.03
39	C	chloroform	1.154	1.118	3.1	82	0.02
40		Tetrahydrofuran	0.936	0.810	13.5	75	0.02

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\06\0620T\
Data File : r1548900.D
Acq On : 20 Jun 2024 12:39 PM
Operator : AIRLAB15:TPH
Sample : WG1937252-2,3,250,250
Misc : WG1937252,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 21 07:05:42 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0620T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 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	0.831	0.697	16.1	72	0.03
42	C	1,2-dichloroethane	0.810	0.750	7.4	80	0.02
43	I	1,4-difluorobenzene	1.000	1.000	0.0	84	0.02
44	C	hexane	0.437	0.534	-22.2	79	0.02
45		diisopropyl ether	0.209	0.225	-7.7	72	0.02
46		tert-butyl ethyl ether	0.750	0.782	-4.3	69	0.03
48	C	1,1,1-trichloroethane	0.337	0.359	-6.5	70	0.02
49		1,1-dichloropropene	0.316	0.330	-4.4	70	0.02
50	C	benzene	0.771	0.852	-10.5	74	0.02
52	C	carbon tetrachloride	0.278	0.325	-16.9	77	0.02
53		cyclohexane	0.469	0.562	-19.8	79	0.02
54		tert-amyl methyl ether	0.603	0.550	8.8	61	0.02
55		dibromomethane	0.248	0.249	-0.4	67	0.02
56	C	1,2-dichloropropane	0.321	0.332	-3.4	68	0.02
57		bromodichloromethane	0.367	0.448	-22.1	78	0.02
58	C	1,4-dioxane	0.177	0.198	-11.9	72	0.02
59	C	trichloroethene	0.330	0.333	-0.9	67	0.01
60	C	2,2,4-trimethylpentane	1.461	1.756	-20.2	78	0.01
61		methyl methacrylate	0.289	0.334	-15.6	75	0.01
62		heptane	0.487	0.564	-15.8	77	0.02
63	C	cis-1,3-dichloropropene	0.357	0.388	-8.7	69	0.02
64	C	4-methyl-2-pentanone	0.554	0.626	-13.0	75	0.02
65		trans-1,3-dichloropropene	0.272	0.295	-8.5	68	0.00
66	C	1,1,2-trichloroethane	0.319	0.309	3.1	64	0.02
67	I	chlorobenzene-D5	1.000	1.000	0.0	99	0.00
68	C	toluene	6.295	5.283	16.1	68	0.00
71		1,3-dichloropropane	2.567	2.215	13.7	71	0.00
72		2-hexanone	3.039	2.979	2.0	75	0.02
74		dibromochloromethane	2.437	2.087	14.4	67	0.00
75	C	1,2-dibromoethane	2.775	2.211	20.3	65	0.02
76		butyl acetate	0.659	0.513	22.2	64	0.02
77		octane	2.232	1.961	12.1	71	0.02
78	C	tetrachloroethene	2.476	1.965	20.6	65	0.00
79		1,1,1,2-tetrachloroethane	2.017	1.561	22.6	62	0.00
80	C	chlorobenzene	4.656	3.914	15.9	69	0.00
81	C	ethylbenzene	8.068	6.786	15.9	67	0.00
83	C	m+p-xylene	6.316	5.433	14.0	68	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\06\0620T\
Data File : r1548900.D
Acq On : 20 Jun 2024 12:39 PM
Operator : AIRLAB15:TPH
Sample : WG1937252-2,3,250,250
Misc : WG1937252,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 21 07:05:42 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0620T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 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	2.161	1.748	19.1	62	0.00
85	C	styrene	4.970	3.807	23.4	61	0.00
86	C	1,1,2,2-tetrachloroethane	4.325	4.027	6.9	73	0.00
87	C	o-xylene	6.313	5.483	13.1	68	0.00
88		1,2,3-trichloropropane	3.249	2.741	15.6	70	0.00
89		nonane	4.810	4.364	9.3	73	0.00
91	C	isopropylbenzene	7.987	5.946	25.6	61	0.00
92		bromobenzene	4.261	3.593	15.7	70	0.00
93		2-chlorotoluene	2.342	1.848	21.1	64	0.00
94		n-propylbenzene	2.645	2.163	18.2	66	0.00
95		4-chlorotoluene	2.306	1.818	21.2	64	0.00
96		4-ethyl toluene	8.331	6.539	21.5	62	0.00
97		1,3,5-trimethylbenzene	8.048	6.203	22.9	63	0.00
98		tert-butylbenzene	6.998	6.056	13.5	68	0.00
99		1,2,4-trimethylbenzene	6.858	5.605	18.3	62	0.00
100		decane	6.491	6.014	7.3	73	0.00
101	C	Benzyl Chloride	3.992	3.315	17.0	59#	0.00
102		1,3-dichlorobenzene	4.814	3.669	23.8	59#	0.00
103	C	1,4-dichlorobenzene	4.868	3.589	26.3	58#	0.00
104		sec-butylbenzene	10.167	7.795	23.3	60	0.00
106		p-isopropyltoluene	7.714	7.026	8.9	70	0.00
107		1,2-dichlorobenzene	4.595	2.710	41.0#	46#	0.00
108		n-butylbenzene	8.137	6.784	16.6	66	0.00
111	C	1,2-dibromo-3-chloropropane	1.544	1.336	13.5	67	0.00
112		undecane	6.860	6.672	2.7	74	0.00
114		dodecane	6.212	6.713	-8.1	73	0.00
115	C	1,2,4-trichlorobenzene	3.378	2.528	25.2	52#	0.00
116		naphthalene	9.022	7.558	16.2	61	0.02
117		1,2,3-trichlorobenzene	3.055	2.423	20.7	58#	0.00
119	C	hexachlorobutadiene	2.925	2.174	25.7	56#	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 1

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0620T\
Data File : r1548900.D
Acq On : 20 Jun 2024 12:39 PM
Operator : AIRLAB15:TPH
Sample : WG1937252-2,3,250,250
Misc : WG1937252,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 21 07:05:42 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0620T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0620T\r1548900.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) bromochloromethane	9.133	49	349671	10.000	ppbV	#	0.02
Standard Area = 349671			Recovery = 100.00%				
43) 1,4-difluorobenzene	11.367	114	849696	10.000	ppbV		0.02
Standard Area = 849696			Recovery = 100.00%				
67) chlorobenzene-D5	16.050	54	163897	10.000	ppbV		0.00
Standard Area = 163897			Recovery = 100.00%				
System Monitoring Compounds							
Target Compounds							Qvalue
2) chlorodifluoromethane	3.910	51	306546	8.573	ppbV		97
3) propylene	3.940	41	187361M6	7.677	ppbV		
4) propane	3.964	29	268068	12.238	ppbV	#	84
5) dichlorodifluoromethane	4.012	85	370925	9.807	ppbV		99
6) chloromethane	4.180	50	160392	11.146	ppbV		100
7) Freon-114	4.288	85	374052	10.128	ppbV		89
8) methanol	4.354	31	469398	61.223	ppbV		94
9) vinyl chloride	4.408	62	213794	9.975	ppbV		97
10) 1,3-butadiene	4.552	54	144311	11.377	ppbV		89
11) butane	4.612	43	294566	9.764	ppbV		99
13) bromomethane	4.840	94	149409	8.968	ppbV		97
14) chloroethane	5.026	64	99320	8.900	ppbV		99
15) ethanol	5.164	31	697276M4	60.866	ppbV		
16) dichlorofluoromethane	5.140	67	341329	7.981	ppbV	#	98
17) vinyl bromide	5.410	106	137172	7.517	ppbV		99
18) acrolein	5.540	56	76990	10.820	ppbV	#	88
19) acetone	5.680	43	1195250	51.730	ppbV		97
20) acetonitrile	5.397	41	180280	9.158	ppbV		99
21) trichlorofluoromethane	5.870	101	294345	9.525	ppbV		96
22) isopropyl alcohol	5.967	45	690572	24.358	ppbV		99
23) acrylonitrile	6.200	53	177873	14.766	ppbV		99
24) pentane	6.270	43	408615	10.703	ppbV	#	92
25) ethyl ether	6.297	31	457892	17.820	ppbV	#	75
26) 1,1-dichloroethene	6.576	61	346283	9.056	ppbV		94
27) tertiary butyl alcohol	6.642	59	366948	8.070	ppbV		93
28) methylene chloride	6.720	49	267380	10.314	ppbV		91
29) 3-chloropropene	6.846	41	291756	8.427	ppbV		97
30) carbon disulfide	7.020	76	556784	8.426	ppbV		96
31) Freon 113	7.014	101	352734	7.578	ppbV	#	92

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0620T\
Data File : r1548900.D
Acq On : 20 Jun 2024 12:39 PM
Operator : AIRLAB15:TPH
Sample : WG1937252-2,3,250,250
Misc : WG1937252,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 21 07:05:42 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0620T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0620T\r1548900.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	335912	8.834	ppbV		91
33) 1,1-dichloroethane	8.000	63	413993	8.271	ppbV		98
34) MTBE	8.067	73	430636	7.855	ppbV		95
35) vinyl acetate	8.183	43	417948	8.659	ppbV		100
36) 2-butanone	8.442	43	451607	8.728	ppbV		94
37) cis-1,2-dichloroethene	8.950	61	326135	8.841	ppbV		92
38) Ethyl Acetate	9.217	61	83605	8.406	ppbV		92
39) chloroform	9.292	83	390929	9.686	ppbV		97
40) Tetrahydrofuran	9.733	42	283189	8.651	ppbV		93
41) 2,2-dichloropropane	9.317	77	243696	8.387	ppbV		92
42) 1,2-dichloroethane	10.125	62	262322	9.262	ppbV		97
44) hexane	9.200	57	454084	12.219	ppbV		99
45) diisopropyl ether	9.200	87	190958	10.767	ppbV		84
46) tert-butyl ethyl ether	9.817	59	664814	10.435	ppbV		99
48) 1,1,1-trichloroethane	10.417	97	305256	10.659	ppbV		91
49) 1,1-dichloropropene	10.780	75	280044	10.435	ppbV		95
50) benzene	10.947	78	723582	11.039	ppbV		94
52) carbon tetrachloride	11.120	117	276262	11.707	ppbV		99
53) cyclohexane	11.267	56	477882	12.000	ppbV		95
54) tert-amyl methyl ether	11.640	73	467297	9.122	ppbV		95
55) dibromomethane	11.860	93	211927	10.069	ppbV		94
56) 1,2-dichloropropane	11.893	63	281732	10.340	ppbV	#	95
57) bromodichloromethane	12.120	83	380267	12.180	ppbV		98
58) 1,4-dioxane	12.160	88	168155	11.188	ppbV		99
59) trichloroethene	12.167	130	282986	10.093	ppbV		97
60) 2,2,4-trimethylpentane	12.213	57	1491981	12.019	ppbV		99
61) methyl methacrylate	12.407	41	283627	11.539	ppbV		89
62) heptane	12.533	43	479439	11.589	ppbV	#	98
63) cis-1,3-dichloropropene	13.183	75	329979	10.893	ppbV		97
64) 4-methyl-2-pentanone	13.217	43	532186	11.296	ppbV	#	96
65) trans-1,3-dichloropropene	13.800	75	250334	10.817	ppbV		99
66) 1,1,2-trichloroethane	14.000	97	262361	9.683	ppbV		86
68) toluene	14.308	91	865896	8.392	ppbV		99
71) 1,3-dichloropropane	14.333	76	363008	8.629	ppbV	#	95
72) 2-hexanone	14.592	43	488174	9.802	ppbV	#	97
74) dibromochloromethane	14.750	129	342078	8.563	ppbV		95
75) 1,2-dibromoethane	15.000	107	362300	7.965	ppbV		99
76) butyl acetate	15.233	73	84117	7.785	ppbV		71
77) octane	15.325	85	321446	8.785	ppbV		93
78) tetrachloroethene	15.450	166	322090	7.938	ppbV		93

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0620T\
Data File : r1548900.D
Acq On : 20 Jun 2024 12:39 PM
Operator : AIRLAB15:TPH
Sample : WG1937252-2,3,250,250
Misc : WG1937252,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 21 07:05:42 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0620T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0620T\r1548900.D
Sub List : Default-LCS-AP2 - All compounds listed

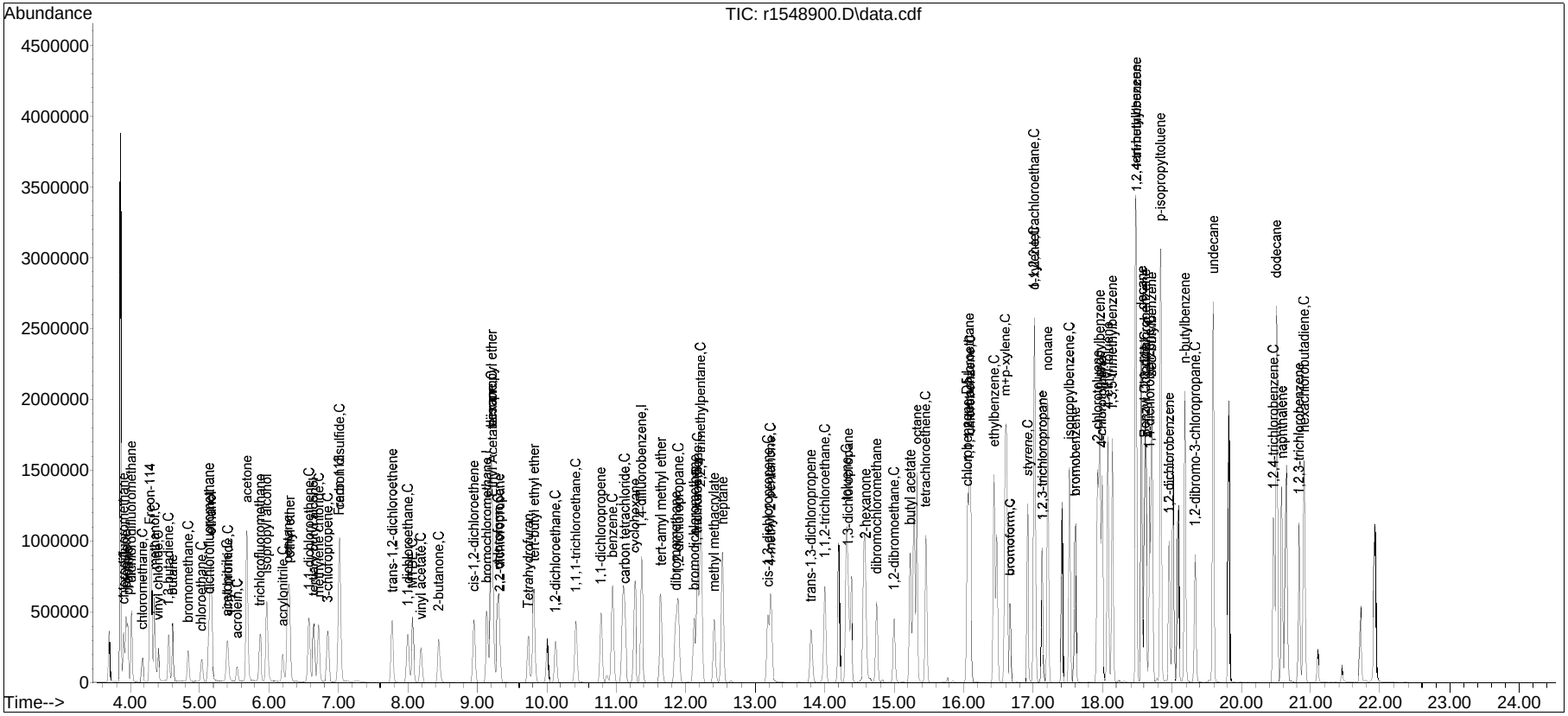
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
79) 1,1,1,2-tetrachloroethane	16.075	131	255922	7.743	ppbV		98
80) chlorobenzene	16.092	112	641548	8.408	ppbV		97
81) ethylbenzene	16.442	91	1112173	8.410	ppbV		96
83) m+p-xylene	16.600	91	1780827	17.202	ppbV		96
84) bromoform	16.667	173	286512	8.088	ppbV		97
85) styrene	16.925	104	623966	7.660	ppbV		94
86) 1,1,2,2-tetrachloroethane	17.017	83	659947	9.310	ppbV		96
87) o-xylene	17.017	91	898625	8.685	ppbV		100
88) 1,2,3-trichloropropane	17.133	75	449318	8.438	ppbV		96
89) nonane	17.208	43	715245	9.072	ppbV		99
91) isopropylbenzene	17.525	105	974484	7.444	ppbV		92
92) bromobenzene	17.608	77	588907	8.434	ppbV		87
93) 2-chlorotoluene	17.933	126	302856	7.891	ppbV		100
94) n-propylbenzene	17.958	120	354582	8.179	ppbV		96
95) 4-chlorotoluene	17.992	126	297894	7.882	ppbV		96
96) 4-ethyl toluene	18.083	105	1071648	7.848	ppbV		96
97) 1,3,5-trimethylbenzene	18.142	105	1016693	7.708	ppbV		98
98) tert-butylbenzene	18.483	119	992547	8.654	ppbV		94
99) 1,2,4-trimethylbenzene	18.492	105	918618	8.173	ppbV		94
100) decane	18.567	57	985597	9.265	ppbV	#	99
101) Benzyl Chloride	18.608	91	543288	8.304	ppbV		97
102) 1,3-dichlorobenzene	18.617	146	601258	7.621	ppbV		97
103) 1,4-dichlorobenzene	18.675	146	588193	7.372	ppbV	#	91
104) sec-butylbenzene	18.708	105	1277514	7.667	ppbV		98
106) p-isopropyltoluene	18.833	119	1151597	9.109	ppbV		95
107) 1,2-dichlorobenzene	18.958	146	444099	5.897	ppbV		98
108) n-butylbenzene	19.183	91	1111887	8.337	ppbV		94
111) 1,2-dibromo-3-chloropr...	19.333	75	218966	8.650	ppbV		91
112) undecane	19.592	57	1093441	9.725	ppbV	#	96
114) dodecane	20.500	57	1100253	10.807	ppbV		99
115) 1,2,4-trichlorobenzene	20.458	180	414382	7.484	ppbV		98
116) naphthalene	20.583	128	1238788	8.378	ppbV		99
117) 1,2,3-trichlorobenzene	20.833	180	397176	7.933	ppbV		96
119) hexachlorobutadiene	20.900	225	356311	7.433	ppbV	#	93

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

Sub List : Default-LCS-AP2 - All compounds listed0T\r1548900.D

Data Path : O:\Forensics\Data\Airlab15\2024\06\0620T\
Data File : r1548900.D
Acq On : 20 Jun 2024 12:39 PM
Operator : AIRLAB15:TPH
Sample : WG1937252-2,3,250,250
Misc : WG1937252,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 21 07:05:42 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0620T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

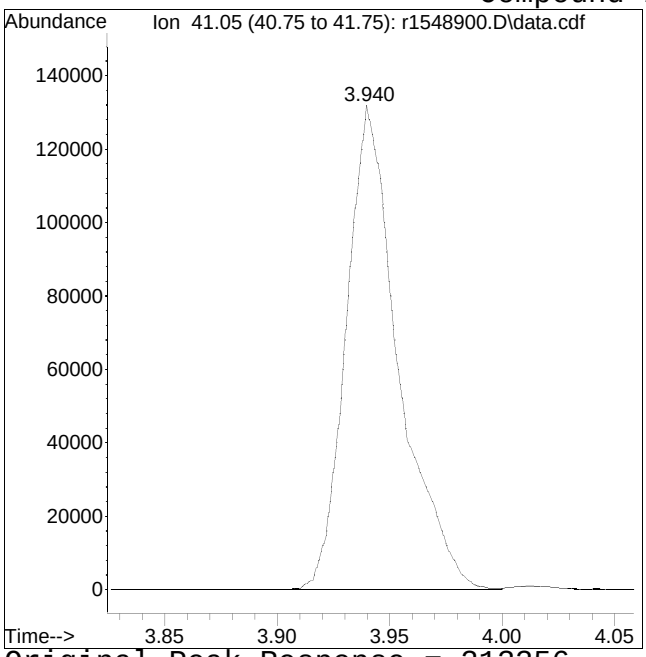


Manual Integration Report

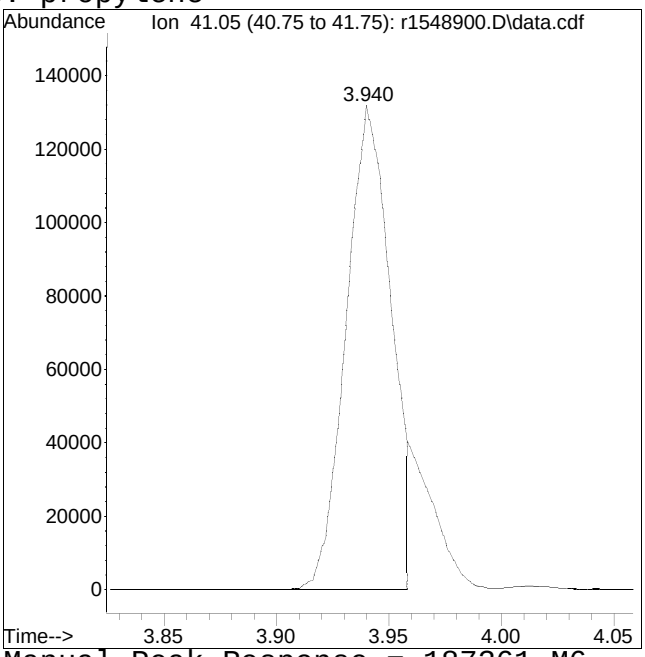
Data Path : O:\Forensics\Data\Airlab15\
Data File : r1548900.D
Date Inj'd : 6/20/2020 0:2: 9
Sample : WG1937252-2,3,250,250

Method : TFS15_240426.M
Operator : AIRLAB15:TPH
Instrument :
Quant Date : 6/21/2024 7:05 am

Compound #3: propylene



Original Peak Response = 213356



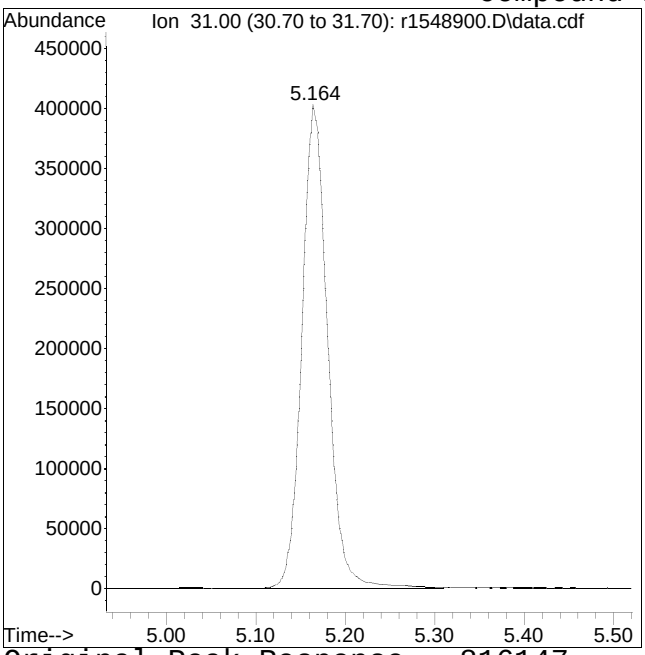
Manual Peak Response = 187361 M6

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

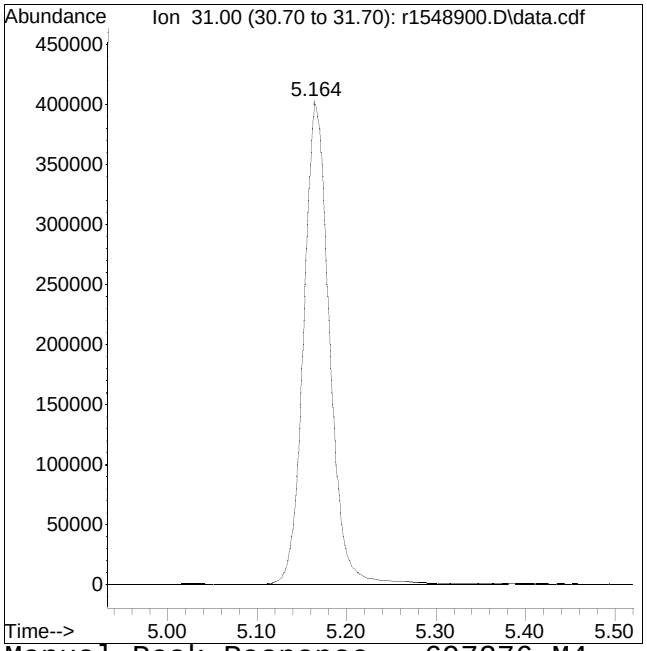
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1548900.D Operator : AIRLAB15:TPH
Date Inj'd : 6/20/2020 0:2: 9 Instrument :
Sample : WG1937252-2,3,250,250 Quant Date : 6/21/2024 7:05 am

Compound #15: ethanol



Original Peak Response = 816147



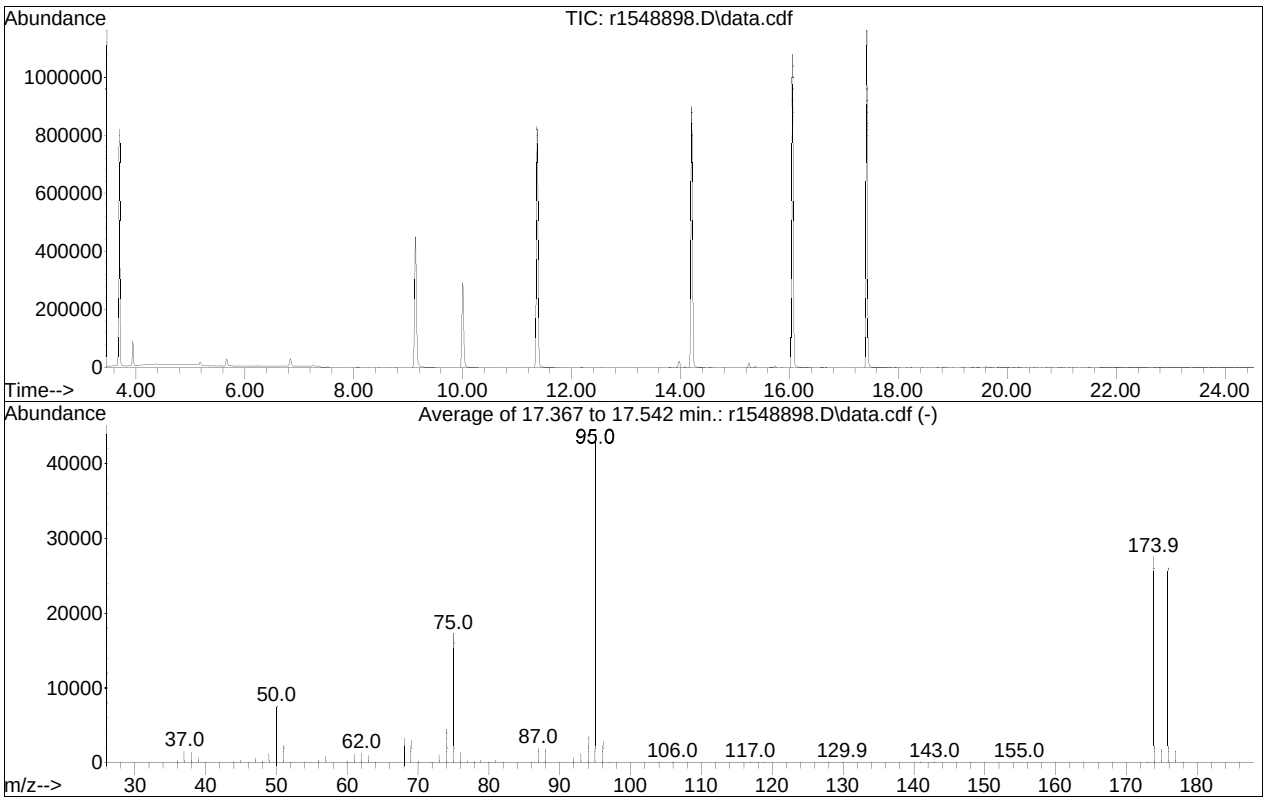
Manual Peak Response = 697276 M4

M4 = Poor automated baseline construction.

Data Path : O:\Forensics\Data\Airlab15\2024\06\0620T\
Data File : r1548898.D
Acq On : 20 Jun 2024 11:21 AM
Operator : AIRLAB15:TPH
Sample : WG1937252-1,3,250,250
Misc : WG1937252,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab15\2024\06\0620T\TFS15_240426.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Sat Apr 27 12:39:19 2024



Spectrum Information: Average of 17.367 to 17.542 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.8	7641	PASS
75	95	30	66	40.1	17235	PASS
95	95	100	100	100.0	42975	PASS
96	95	5	9	6.5	2811	PASS
173	174	0.00	2	0.5	126	PASS
174	95	50	120	64.1	27543	PASS
175	174	4	9	6.9	1895	PASS
176	174	93	101	95.2	26208	PASS
177	176	5	9	6.4	1688	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548848.D
Acq On : 18 Jun 2024 6:43 PM
Operator : AIRLAB15:JMB
Sample : WG1936045-4,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 19:17:09 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618T\r1548845.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.142	49	295104	10.000	ppbV	0.02
Standard Area = 309658			Recovery = 95.30%			
43) 1,4-difluorobenzene	11.373	114	791603	10.000	ppbV	0.03
Standard Area = 833704			Recovery = 94.95%			
67) chlorobenzene-D5	16.058	54	136501	10.000	ppbV	0.02
Standard Area = 146665			Recovery = 93.07%			
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	0.000		0	N.D.		
6) chloromethane	0.000		0	N.D.		
7) Freon-114	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.		
15) ethanol	5.188	31	7655	0.792	ppbV	90
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.713	43	2593	0.133	ppbV #	97
21) trichlorofluoromethane	0.000		0	N.D.		
22) isopropyl alcohol	6.003		0	N.D.		
26) 1,1-dichloroethene	0.000		0	N.D.		
27) tertiary butyl alcohol	6.708		0	N.D.		
28) methylene chloride	6.720	49	5412	0.247	ppbV	94
29) 3-chloropropene	6.720		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.		
36) 2-butanone	0.000		0	N.D.		
37) cis-1,2-dichloroethene	0.000		0	N.D.		
38) Ethyl Acetate	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	9.208	57	3554	0.103	ppbV #	33

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548848.D
Acq On : 18 Jun 2024 6:43 PM
Operator : AIRLAB15:JMB
Sample : WG1936045-4,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 19:17:09 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618T\r1548845.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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.		
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.		
60) 2,2,4-trimethylpentane	0.000		0	N.D.		
62) heptane	0.000		0	N.D.		
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	0.000		0	N.D.		
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	14.333		0	N.D.		
72) 2-hexanone	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	16.608		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	17.033		0	N.D.		
96) 4-ethyl toluene	18.058		0	N.D.		
97) 1,3,5-trimethylbenzene	18.158		0	N.D.		
99) 1,2,4-trimethylbenzene	18.500		0	N.D.		
101) Benzyl Chloride	0.000		0	N.D.		
102) 1,3-dichlorobenzene	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	20.683		0	N.D.		
119) hexachlorobutadiene	0.000		0	N.D.		

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548848.D
Acq On : 18 Jun 2024 6:43 PM
Operator : AIRLAB15:JMB
Sample : WG1936045-4,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 19:17:09 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

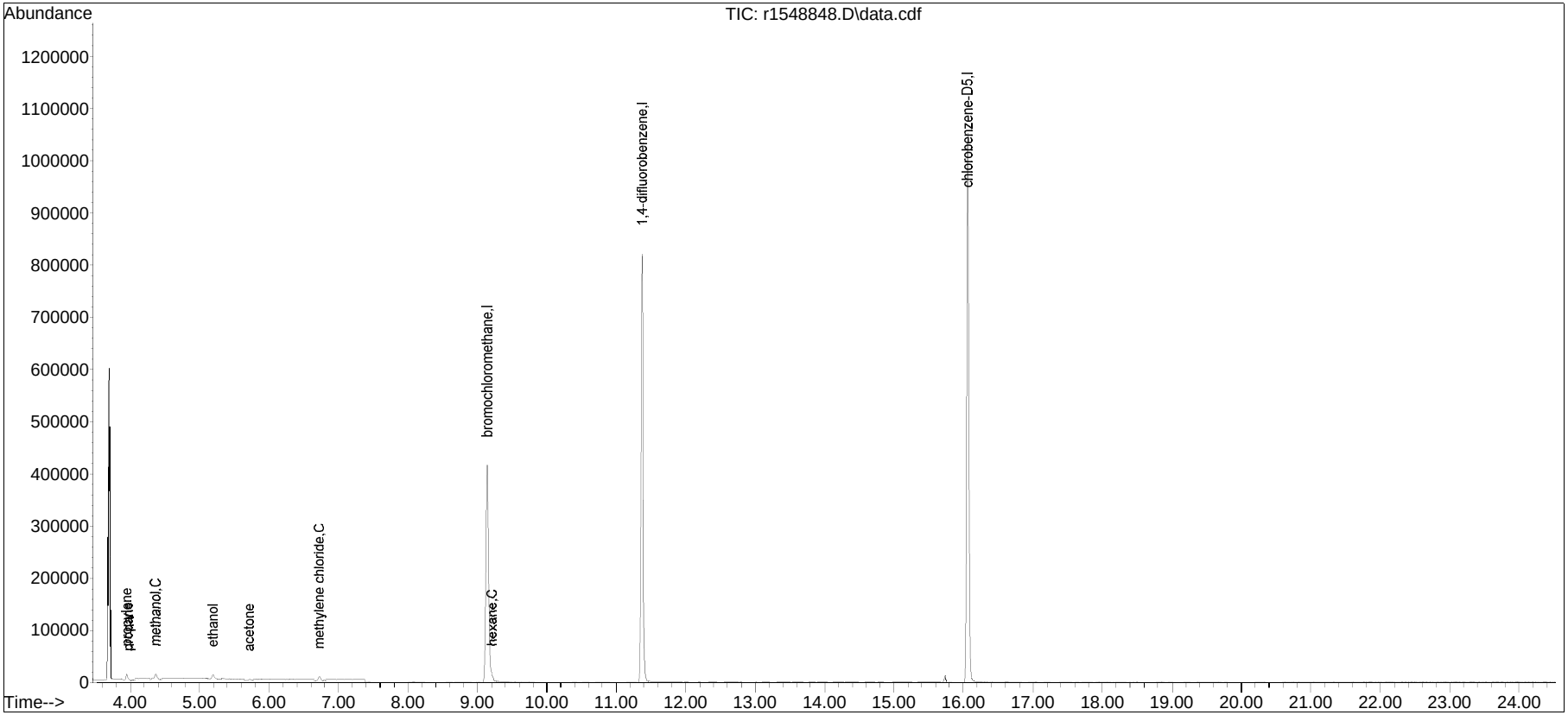
CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618T\r1548845.D
Sub List : Default-LCS-AP2 - All compounds listed

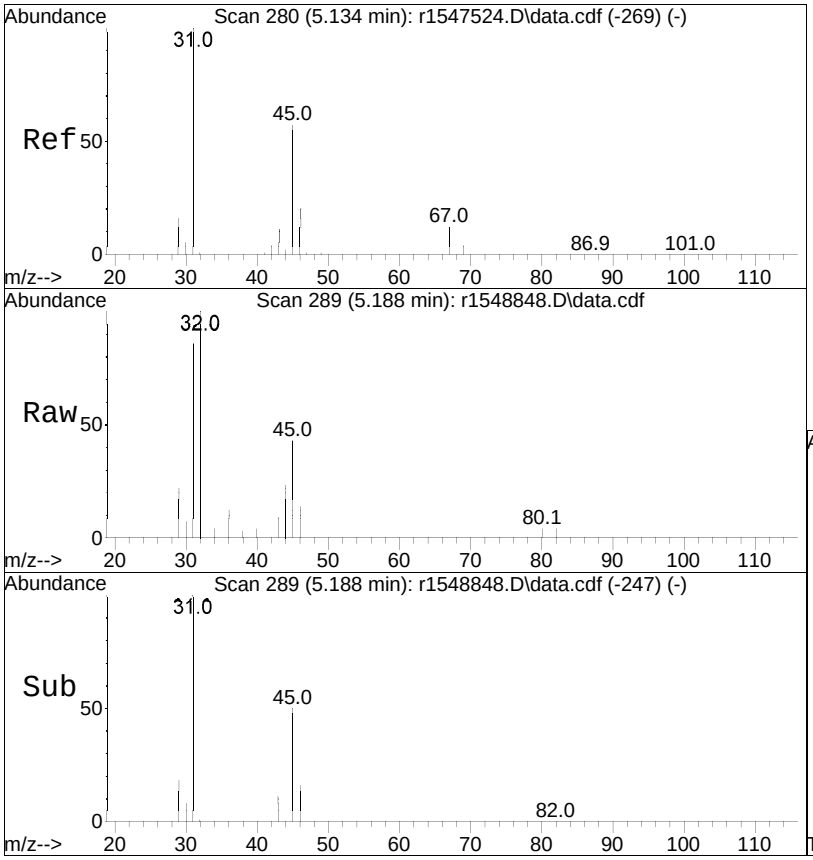
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : Default-LCS-AP2 - All compounds listed8T\r1548845.D

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548848.D
Acq On : 18 Jun 2024 6:43 PM
Operator : AIRLAB15:JMB
Sample : WG1936045-4,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 19:17:09 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

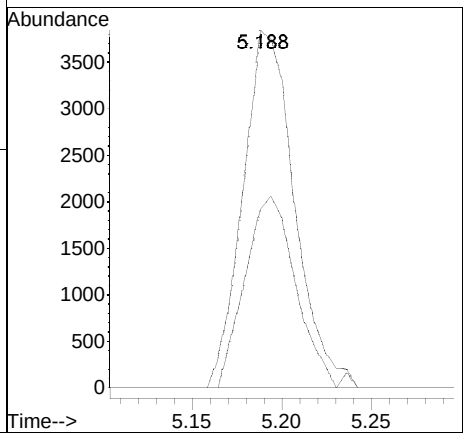


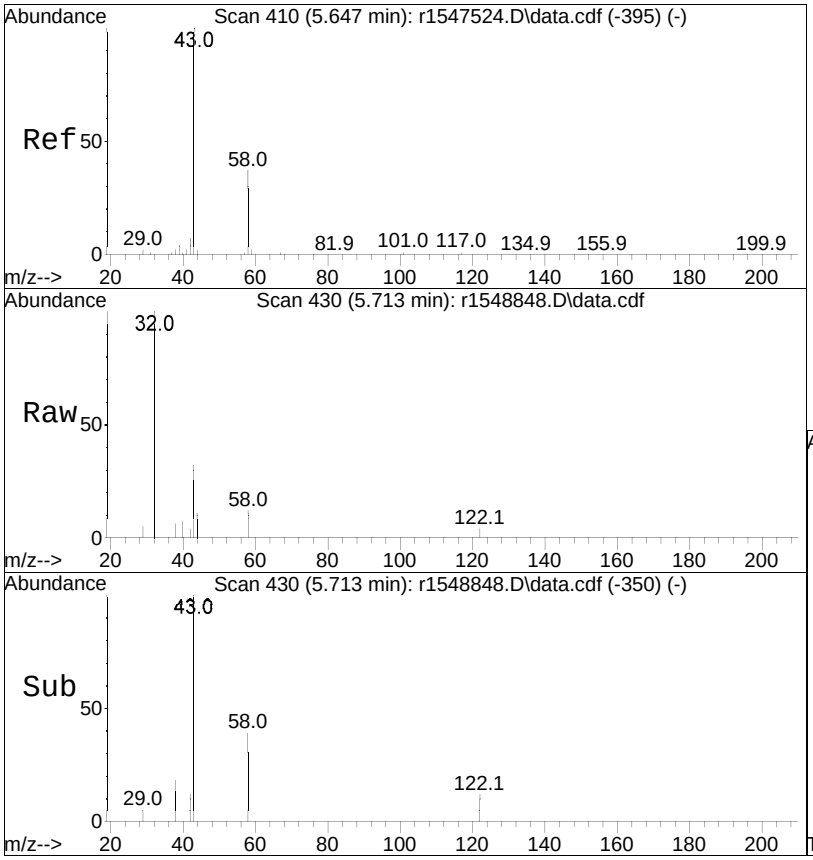


#15
ethanol
Concen: 0.79 ppbV
RT: 5.188 min Scan# 289
Delta R.T. 0.054 min
Lab File: r1548848.D
Acq: 18 Jun 2024 6:43 PM

Tgt Ion: 31 Resp: 7655

Ion	Ratio	Lower	Upper
31	100		
45	50.0	45.7	68.5

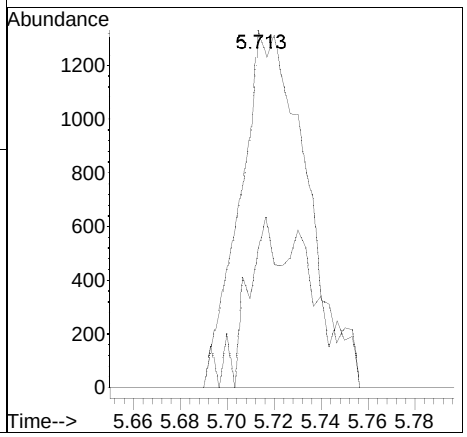


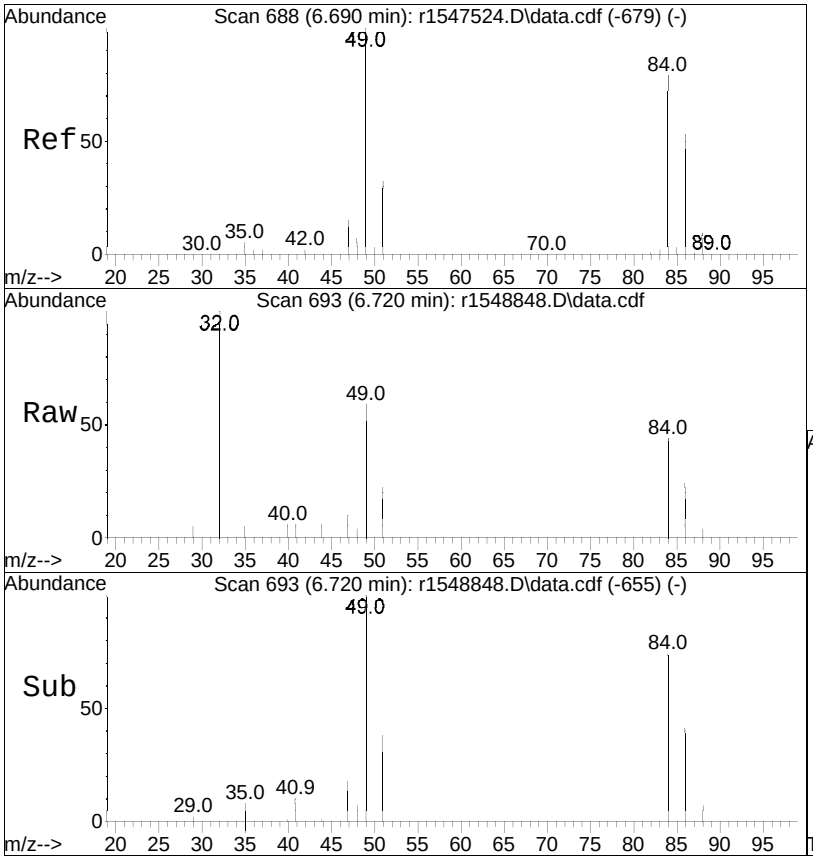


#19
acetone
Concen: 0.13 ppbV
RT: 5.713 min Scan# 430
Delta R.T. 0.067 min
Lab File: r1548848.D
Acq: 18 Jun 2024 6:43 PM

Tgt Ion: 43 Resp: 2593

Ion	Ratio	Lower	Upper
43	100		
58	38.8	29.4	44.0
57	0.0	0.7	1.1#

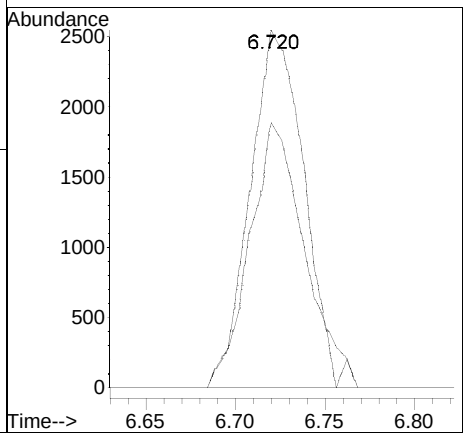


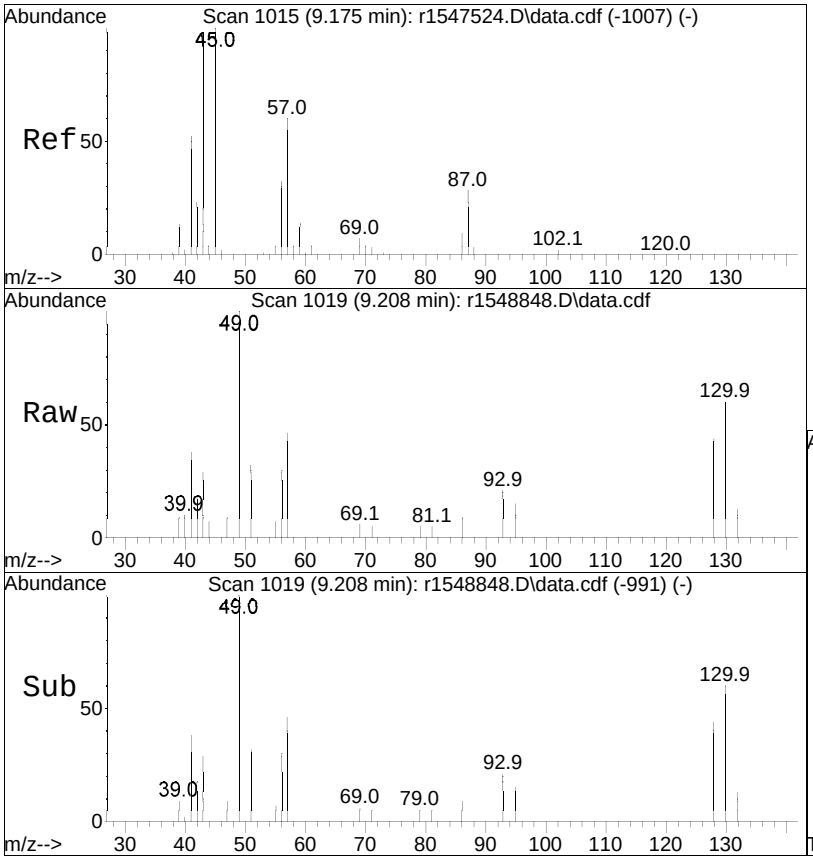


#28
methylene chloride
Concen: 0.25 ppbV
RT: 6.720 min Scan# 693
Delta R.T. 0.030 min
Lab File: r1548848.D
Acq: 18 Jun 2024 6:43 PM

Tgt Ion: 49 Resp: 5412

Ion	Ratio	Lower	Upper
49	100		
84	74.4	63.4	95.2

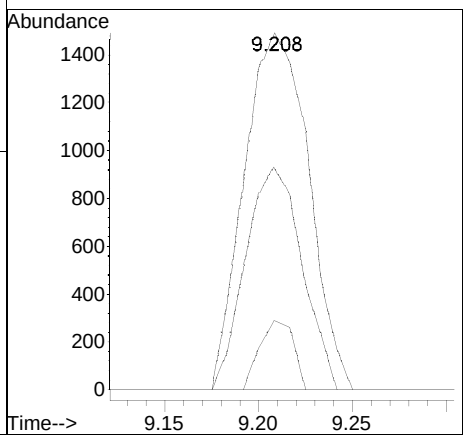




#44
hexane
Concen: 0.10 ppbV
RT: 9.208 min Scan# 1019
Delta R.T. 0.033 min
Lab File: r1548848.D
Acq: 18 Jun 2024 6:43 PM

Tgt Ion: 57 Resp: 3554

Ion	Ratio	Lower	Upper
57	100		
43	62.6	124.6	186.8#
86	19.4	11.5	17.3#



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab15	QMethod	: TFS15_240426.M
Data File	: r1548848.D	Operator	: AIRLAB15:JMB
Date Inj'd	: 6/18/2020 0:6: 3	Instrument	:
Sample	: WG1936045-4,3,250,250	Quant Date	: 6/18/2024 7:17 pm

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0620T\
Data File : r1548903.D
Acq On : 20 Jun 2024 3:21 PM
Operator : AIRLAB15:TPH
Sample : WG1937252-4,3,250,250
Misc : WG1937252,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 20 18:42:17 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0620T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0620T\r1548900.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.133	49	321888	10.000	ppbV	0.02
Standard Area = 349671			Recovery = 92.05%			
43) 1,4-difluorobenzene	11.367	114	806801	10.000	ppbV	0.02
Standard Area = 849696			Recovery = 94.95%			
67) chlorobenzene-D5	16.058	54	151383	10.000	ppbV	# 0.02
Standard Area = 163897			Recovery = 92.36%			
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	0.000		0	N.D.		
6) chloromethane	0.000		0	N.D.		
7) Freon-114	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.		
15) ethanol	5.188	31	12781	1.212	ppbV	# 70
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.717		0	N.D.		
21) trichlorofluoromethane	0.000		0	N.D.		
22) isopropyl alcohol	6.013		0	N.D.		
26) 1,1-dichloroethene	0.000		0	N.D.		
27) tertiary butyl alcohol	6.696		0	N.D.		
28) methylene chloride	6.708	49	780	0.033	ppbV	# 82
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.		
36) 2-butanone	0.000		0	N.D.		
37) cis-1,2-dichloroethene	0.000		0	N.D.		
38) Ethyl Acetate	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.		

Data Path : O:\Forensics\Data\Airlab15\2024\06\0620T\
Data File : r1548903.D
Acq On : 20 Jun 2024 3:21 PM
Operator : AIRLAB15:TPH
Sample : WG1937252-4,3,250,250
Misc : WG1937252,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 20 18:42:17 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0620T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0620T\r1548900.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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.		
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.		
60) 2,2,4-trimethylpentane	0.000		0	N.D.		
62) heptane	0.000		0	N.D.		
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	0.000		0	N.D.		
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	14.333		0	N.D.		
72) 2-hexanone	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	16.617		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.		
96) 4-ethyl toluene	0.000		0	N.D.		
97) 1,3,5-trimethylbenzene	0.000		0	N.D.		
99) 1,2,4-trimethylbenzene	18.508		0	N.D.		
101) Benzyl Chloride	0.000		0	N.D.		
102) 1,3-dichlorobenzene	18.642		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	20.517		0	N.D.		
116) naphthalene	20.625		0	N.D.		
119) hexachlorobutadiene	20.908		0	N.D.		

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

Data Path : O:\Forensics\Data\Airlab15\2024\06\0620T\
Data File : r1548903.D
Acq On : 20 Jun 2024 3:21 PM
Operator : AIRLAB15:TPH
Sample : WG1937252-4,3,250,250
Misc : WG1937252,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 20 18:42:17 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0620T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

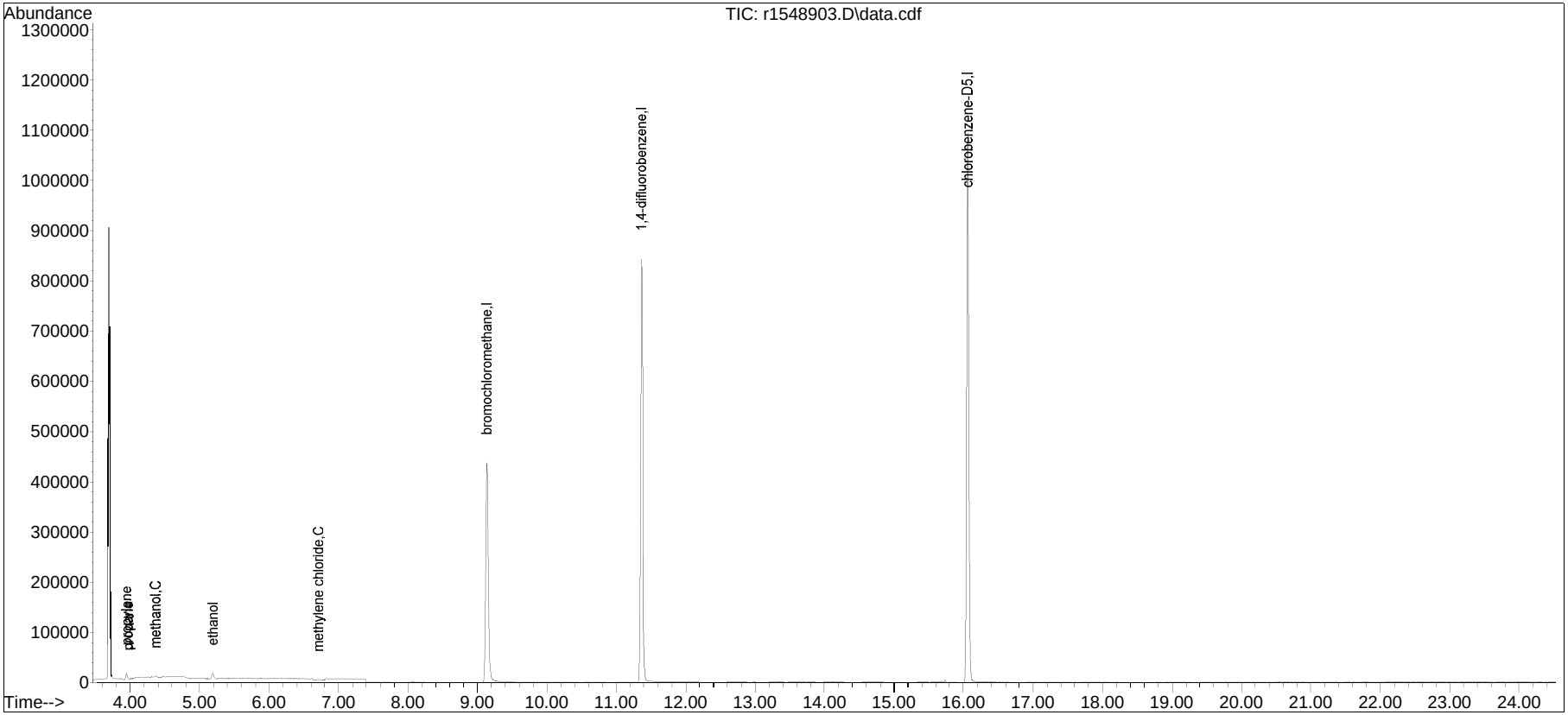
CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0620T\r1548900.D
Sub List : Default-LCS-AP2 - All compounds listed

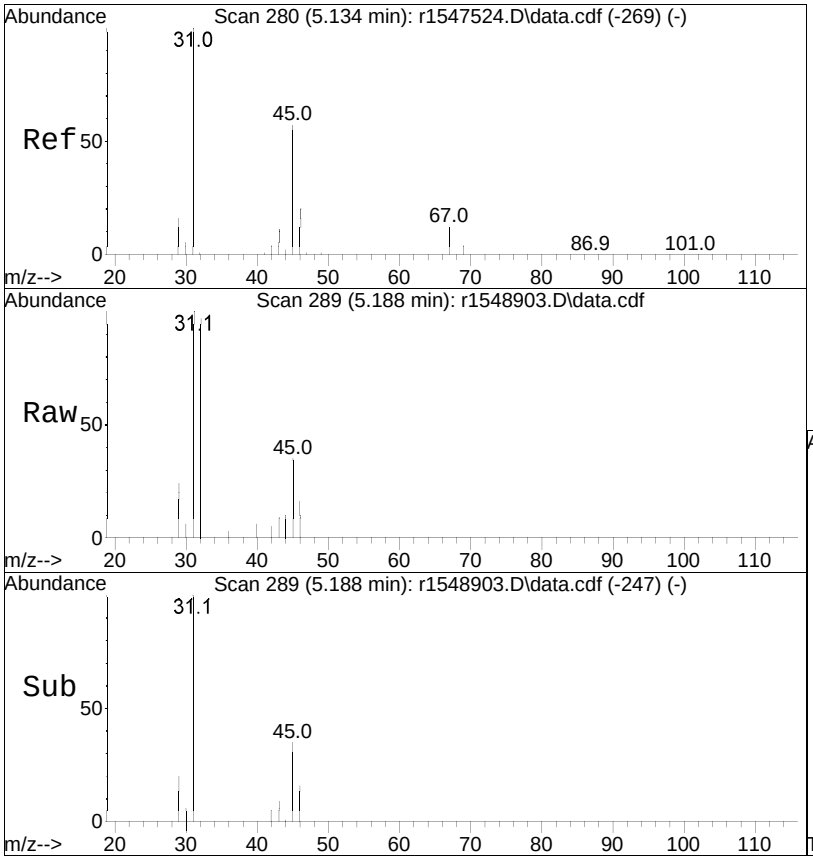
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : Default-LCS-AP2 - All compounds listed0T\r1548900.D

Data Path : O:\Forensics\Data\Airlab15\2024\06\0620T\
Data File : r1548903.D
Acq On : 20 Jun 2024 3:21 PM
Operator : AIRLAB15:TPH
Sample : WG1937252-4,3,250,250
Misc : WG1937252,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 20 18:42:17 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0620T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

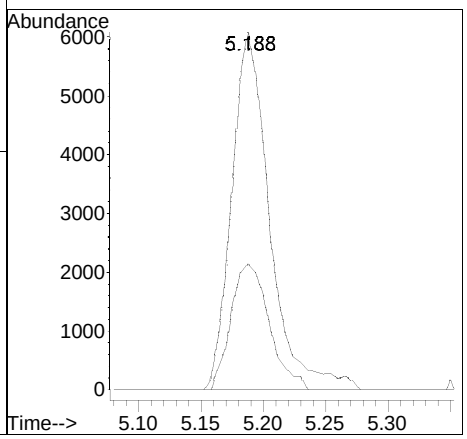


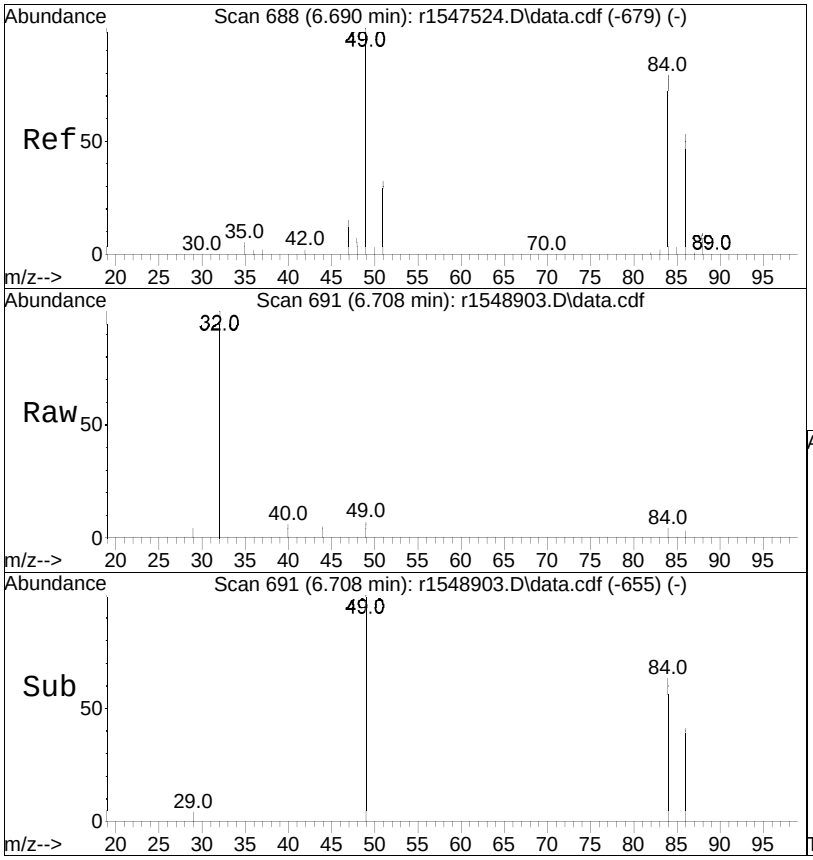


#15
ethanol
Concen: 1.21 ppbV
RT: 5.188 min Scan# 289
Delta R.T. 0.054 min
Lab File: r1548903.D
Acq: 20 Jun 2024 3:21 PM

Tgt Ion: 31 Resp: 12781

Ion	Ratio	Lower	Upper
31	100		
45	35.3	45.7	68.5#

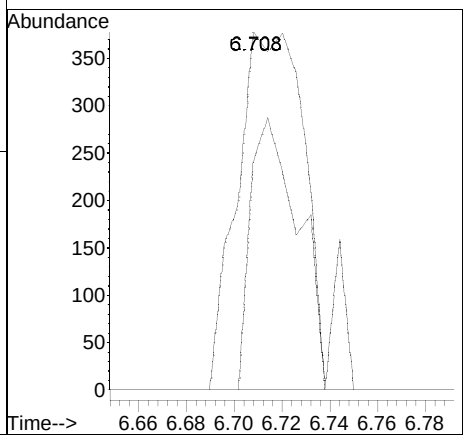




#28
methylene chloride
Concen: 0.03 ppbV
RT: 6.708 min Scan# 691
Delta R.T. 0.018 min
Lab File: r1548903.D
Acq: 20 Jun 2024 3:21 PM

Tgt Ion: 49 Resp: 780

Ion	Ratio	Lower	Upper
49	100		
84	63.4	63.4	95.2#



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab15	QMethod	: TFS15_240426.M
Data File	: r1548903.D	Operator	: AIRLAB15:TPH
Date Inj'd	: 6/20/2020 0:3: 1	Instrument	:
Sample	: WG1937252-4,3,250,250	Quant Date	: 6/20/2024 6:42 pm

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

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548845.D
Acq On : 18 Jun 2024 2:34 PM
Operator : AIRLAB15:JMB
Sample : WG1936045-3,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 15:43:49 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 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	92	0.02
2		chlorodifluoromethane	10.000	7.925	20.8	69	0.03
3		propylene	10.000	9.829	1.7	83	0.03
4		propane	10.000	11.123	-11.2	90	0.03
5		dichlorodifluoromethane	10.000	8.992	10.1	72	0.03
6	C	chloromethane	10.000	10.704	-7.0	85	0.04
7		Freon-114	10.000	10.831	-8.3	84	0.03
8	C	methanol	50.000	48.337	3.3	81	0.04
9	C	vinyl chloride	10.000	9.804	2.0	74	0.03
10	C	1,3-butadiene	10.000	11.842	-18.4	90	0.03
11		butane	10.000	10.399	-4.0	82	0.04
13	C	bromomethane	10.000	9.391	6.1	72	0.04
14	C	chloroethane	10.000	9.514	4.9	72	0.03
15		ethanol	50.000	61.545	-23.1	91	0.04
16		dichlorofluoromethane	10.000	8.011	19.9	67	0.04
17	C	vinyl bromide	10.000	8.185	18.1	61	0.03
18	C	acrolein	10.000	10.358	-3.6	78	0.03
19		acetone	50.000	55.026	-10.1	86	0.04
20	C	acetonitrile	10.000	9.675	3.2	76	0.04
21		trichlorofluoromethane	10.000	9.390	6.1	71	0.03
22		isopropyl alcohol	25.000	23.995	4.0	77	0.04
23	C	acrylonitrile	10.000	14.802	-48.0#	110	0.03
24		pentane	10.000	12.014	-20.1	98	0.03
25		ethyl ether	10.000	16.699	-67.0#	140	0.03
26	C	1,1-dichloroethene	10.000	9.831	1.7	74	0.03
27		tertiary butyl alcohol	10.000	8.795	12.1	67	0.04
28	C	methylene chloride	10.000	10.127	-1.3	77	0.04
29	C	3-chloropropene	10.000	10.499	-5.0	80	0.03
30	C	carbon disulfide	10.000	8.644	13.6	65	0.03
31		Freon 113	10.000	8.815	11.9	69	0.03
32		trans-1,2-dichloroethene	10.000	9.527	4.7	69	0.03
33	C	1,1-dichloroethane	10.000	9.321	6.8	71	0.03
34	C	MTBE	10.000	8.941	10.6	68	0.03
35	C	vinyl acetate	10.000	8.779	12.2	67	0.03
36	C	2-butanone	10.000	9.850	1.5	76	0.03
37		cis-1,2-dichloroethene	10.000	9.676	3.2	71	0.03
38		Ethyl Acetate	10.000	9.974	0.3	74	0.03
39	C	chloroform	10.000	9.356	6.4	70	0.02
40		Tetrahydrofuran	10.000	9.757	2.4	75	0.02

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548845.D
Acq On : 18 Jun 2024 2:34 PM
Operator : AIRLAB15:JMB
Sample : WG1936045-3,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 15:43:49 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 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	8.130	18.7	62	0.03
42	C	1,2-dichloroethane	10.000	9.305	7.0	71	0.03
43	I	1,4-difluorobenzene	10.000	10.000	0.0	82	0.03
44	C	hexane	10.000	11.524	-15.2	73	0.03
45		diisopropyl ether	10.000	10.012	-0.1	65	0.02
46		tert-butyl ethyl ether	10.000	10.023	-0.2	65	0.03
48	C	1,1,1-trichloroethane	10.000	9.953	0.5	65	0.02
49		1,1-dichloropropene	10.000	10.273	-2.7	68	0.03
50	C	benzene	10.000	10.228	-2.3	67	0.02
52	C	carbon tetrachloride	10.000	9.934	0.7	64	0.02
53		cyclohexane	10.000	11.441	-14.4	74	0.02
54		tert-amyl methyl ether	10.000	9.410	5.9	62	0.02
55		dibromomethane	10.000	9.789	2.1	64	0.03
56	C	1,2-dichloropropane	10.000	10.853	-8.5	70	0.02
57		bromodichloromethane	10.000	11.048	-10.5	70	0.02
58	C	1,4-dioxane	10.000	11.381	-13.8	72	0.03
59	C	trichloroethene	10.000	10.036	-0.4	65	0.02
60	C	2,2,4-trimethylpentane	10.000	11.775	-17.8	75	0.02
61		methyl methacrylate	10.000	12.464	-24.6	80	0.02
62		heptane	10.000	11.924	-19.2	78	0.02
63	C	cis-1,3-dichloropropene	10.000	10.875	-8.8	68	0.02
64	C	4-methyl-2-pentanone	10.000	11.879	-18.8	78	0.03
65		trans-1,3-dichloropropene	10.000	10.731	-7.3	66	0.02
66	C	1,1,2-trichloroethane	10.000	10.441	-4.4	68	0.02
67	I	chlorobenzene-D5	10.000	10.000	0.0	88	0.02
68	C	toluene	10.000	9.297	7.0	68	0.02
71		1,3-dichloropropane	10.000	8.850	11.5	65	0.02
72		2-hexanone	10.000	11.209	-12.1	76	0.02
74		dibromochloromethane	10.000	9.775	2.2	68	0.00
75	C	1,2-dibromoethane	10.000	8.953	10.5	66	0.02
76		butyl acetate	10.000	8.782	12.2	64	0.02
77		octane	10.000	9.071	9.3	66	0.02
78	C	tetrachloroethene	10.000	8.813	11.9	65	0.02
79		1,1,1,2-tetrachloroethane	10.000	8.635	13.7	62	0.02
80	C	chlorobenzene	10.000	9.317	6.8	68	0.02
81	C	ethylbenzene	10.000	9.605	3.9	68	0.00
83	C	m+p-xylene	20.000	19.328	3.4	68	0.02

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548845.D
Acq On : 18 Jun 2024 2:34 PM
Operator : AIRLAB15:JMB
Sample : WG1936045-3,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 15:43:49 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 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	9.555	4.5	66	0.02
85	C	styrene	10.000	9.131	8.7	65	0.00
86	C	1,1,2,2-tetrachloroethane	10.000	10.358	-3.6	73	0.00
87	C	o-xylene	10.000	9.957	0.4	69	0.02
88		1,2,3-trichloropropane	10.000	8.909	10.9	66	0.00
89		nonane	10.000	9.765	2.3	71	0.00
91	C	isopropylbenzene	10.000	8.683	13.2	64	0.00
92		bromobenzene	10.000	8.939	10.6	66	0.00
93		2-chlorotoluene	10.000	8.849	11.5	64	0.00
94		n-propylbenzene	10.000	9.082	9.2	65	0.02
95		4-chlorotoluene	10.000	8.682	13.2	63	0.00
96		4-ethyl toluene	10.000	8.928	10.7	63	0.00
97		1,3,5-trimethylbenzene	10.000	9.043	9.6	66	0.00
98		tert-butylbenzene	10.000	9.304	7.0	65	0.00
99		1,2,4-trimethylbenzene	10.000	9.381	6.2	64	0.00
100		decane	10.000	10.086	-0.9	71	0.00
101	C	Benzyl Chloride	10.000	9.497	5.0	61	0.00
102		1,3-dichlorobenzene	10.000	9.208	7.9	64	0.00
103	C	1,4-dichlorobenzene	10.000	9.097	9.0	64	0.00
104		sec-butylbenzene	10.000	8.491	15.1	60	0.00
106		p-isopropyltoluene	10.000	7.739	22.6	54	0.00
107		1,2-dichlorobenzene	10.000	7.757	22.4	54	0.02
108		n-butylbenzene	10.000	9.652	3.5	68	0.00
111	C	1,2-dibromo-3-chloropropane	10.000	8.969	10.3	62	0.00
112		undecane	10.000	10.514	-5.1	71	0.00
114		dodecane	10.000	10.849	-8.5	65	0.02
115	C	1,2,4-trichlorobenzene	10.000	8.832	11.7	55	0.02
116		naphthalene	10.000	8.803	12.0	57	0.02
117		1,2,3-trichlorobenzene	10.000	8.370	16.3	55	0.00
119	C	hexachlorobutadiene	10.000	8.350	16.5	56	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 1

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548845.D
Acq On : 18 Jun 2024 2:34 PM
Operator : AIRLAB15:JMB
Sample : WG1936045-3,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 15:43:49 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618T\r1548845.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.142	49	309658	10.000	ppbV	0.02
Standard Area = 309658			Recovery = 100.00%			
43) 1,4-difluorobenzene	11.373	114	833704	10.000	ppbV	0.03
Standard Area = 833704			Recovery = 100.00%			
67) chlorobenzene-D5	16.058	54	146665	10.000	ppbV	0.02
Standard Area = 146665			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.018	85	301205	8.992	ppbV	100
6) chloromethane	4.186	50	136405	10.704	ppbV	99
7) Freon-114	4.288	85	354224	10.831	ppbV	90
9) vinyl chloride	4.414	62	186071	9.804	ppbV	99
10) 1,3-butadiene	4.558	54	133028	11.842	ppbV	93
13) bromomethane	4.846	94	138541	9.391	ppbV	98
14) chloroethane	5.032	64	94020	9.514	ppbV	100
15) ethanol	5.170	31	624373	61.545	ppbV	93
17) vinyl bromide	5.413	106	132257	8.185	ppbV	99
19) acetone	5.683	43	1125919	55.026	ppbV	99
21) trichlorofluoromethane	5.873	101	256988	9.390	ppbV	99
22) isopropyl alcohol	5.973	45	602434	23.995	ppbV	99
26) 1,1-dichloroethene	6.576	61	332900	9.831	ppbV	96
27) tertiary butyl alcohol	6.648	59	354174	8.795	ppbV	93
28) methylene chloride	6.726	49	232474	10.127	ppbV	93
29) 3-chloropropene	6.852	41	321889	10.499	ppbV	98
30) carbon disulfide	7.026	76	505808	8.644	ppbV	98
31) Freon 113	7.020	101	363386	8.815	ppbV	97
32) trans-1,2-dichloroethene	7.775	61	320839	9.527	ppbV	96
33) 1,1-dichloroethane	8.000	63	413167	9.321	ppbV	99
34) MTBE	8.075	73	434086	8.941	ppbV	97
36) 2-butanone	8.450	43	451380	9.850	ppbV	96
37) cis-1,2-dichloroethene	8.958	61	316078	9.676	ppbV	96
38) Ethyl Acetate	9.225	61	87849	9.974	ppbV	80
39) chloroform	9.292	83	334410	9.356	ppbV	96
40) Tetrahydrofuran	9.733	42	282838	9.757	ppbV	96
42) 1,2-dichloroethane	10.133	62	233371	9.305	ppbV	98
44) hexane	9.208	57	420199	11.524	ppbV	81

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548845.D
Acq On : 18 Jun 2024 2:34 PM
Operator : AIRLAB15:JMB
Sample : WG1936045-3,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 15:43:49 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618T\r1548845.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 1,1,1-trichloroethane	10.417	97	279674	9.953	ppbV		92
50) benzene	10.947	78	657806	10.228	ppbV		98
52) carbon tetrachloride	11.120	117	230026	9.934	ppbV		97
53) cyclohexane	11.267	56	447058	11.441	ppbV		97
56) 1,2-dichloropropane	11.893	63	290157	10.853	ppbV		98
57) bromodichloromethane	12.120	83	338440	11.048	ppbV		99
58) 1,4-dioxane	12.167	88	167826	11.381	ppbV		99
59) trichloroethene	12.173	130	276090	10.036	ppbV		100
60) 2,2,4-trimethylpentane	12.220	57	1434165	11.775	ppbV		98
62) heptane	12.533	43	483990	11.924	ppbV		97
63) cis-1,3-dichloropropene	13.183	75	323235	10.875	ppbV		98
64) 4-methyl-2-pentanone	13.225	43	549086	11.879	ppbV		96
65) trans-1,3-dichloropropene	13.808	75	243673	10.731	ppbV		97
66) 1,1,2-trichloroethane	14.000	97	277591	10.441	ppbV		97
68) toluene	14.317	91	858403	9.297	ppbV		99
72) 2-hexanone	14.592	43	499540	11.209	ppbV	#	97
74) dibromochloromethane	14.750	129	349441	9.775	ppbV		97
75) 1,2-dibromoethane	15.000	107	364409	8.953	ppbV		97
78) tetrachloroethene	15.458	166	320022	8.813	ppbV		97
80) chlorobenzene	16.100	112	636192	9.317	ppbV		99
81) ethylbenzene	16.442	91	1136632	9.605	ppbV		97
83) m+p-xylene	16.608	91	1790547	19.328	ppbV		99
84) bromoform	16.675	173	302888	9.555	ppbV		96
85) styrene	16.925	104	665605	9.131	ppbV		98
86) 1,1,2,2-tetrachloroethane	17.017	83	657018	10.358	ppbV		98
87) o-xylene	17.025	91	921901	9.957	ppbV		95
96) 4-ethyl toluene	18.083	105	1090939	8.928	ppbV		94
97) 1,3,5-trimethylbenzene	18.150	105	1067412	9.043	ppbV		98
99) 1,2,4-trimethylbenzene	18.492	105	943508	9.381	ppbV		95
101) Benzyl Chloride	18.608	91	555996	9.497	ppbV		96
102) 1,3-dichlorobenzene	18.625	146	650096	9.208	ppbV		98
103) 1,4-dichlorobenzene	18.675	146	649496	9.097	ppbV		96
107) 1,2-dichlorobenzene	18.967	146	522686	7.757	ppbV		95
115) 1,2,4-trichlorobenzene	20.467	180	437573	8.832	ppbV		98
116) naphthalene	20.583	128	1164858	8.803	ppbV		99
119) hexachlorobutadiene	20.900	225	358204	8.350	ppbV		94

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

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548845.D
Acq On : 18 Jun 2024 2:34 PM
Operator : AIRLAB15:JMB
Sample : WG1936045-3,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 15:43:49 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

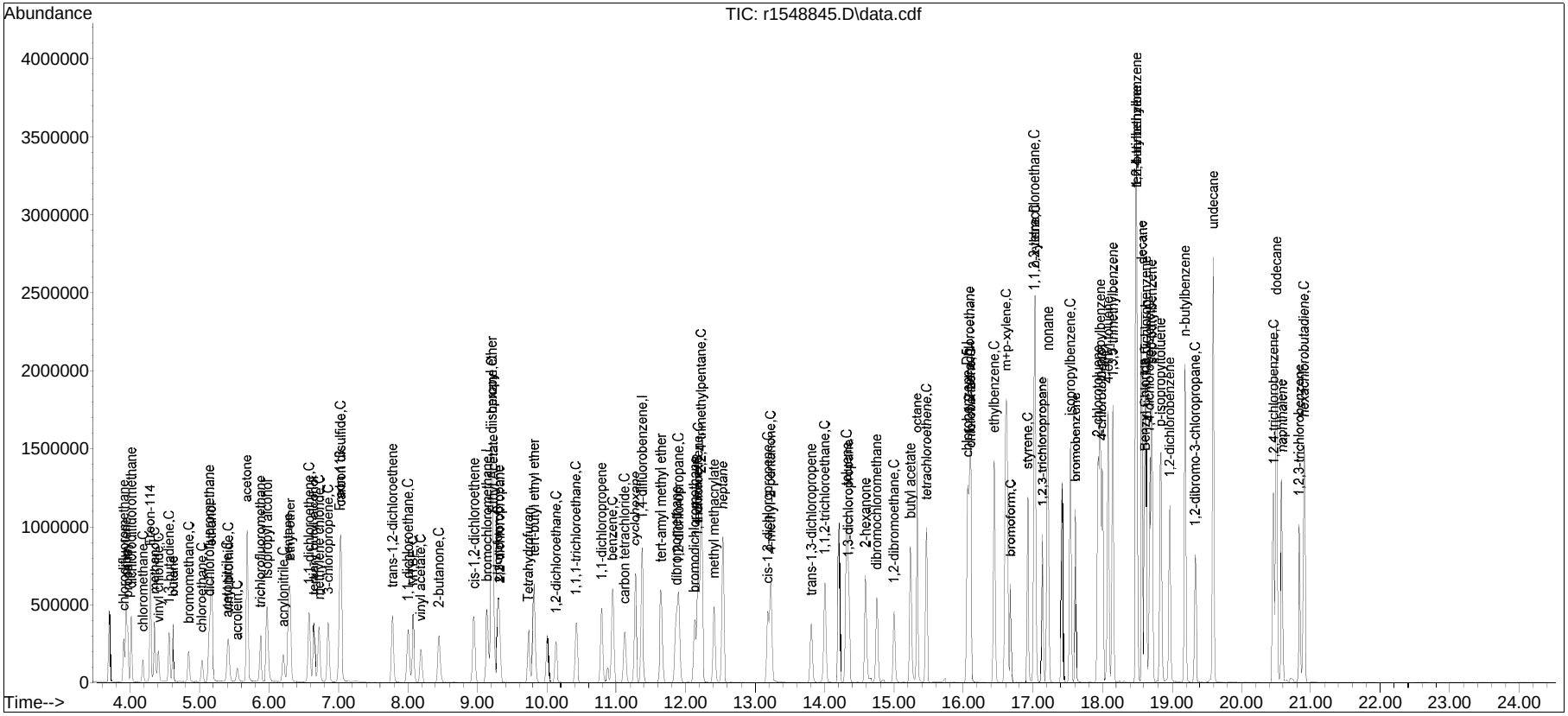
CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618T\r1548845.D
Sub List : Default-LCS-AP2 - All compounds listed

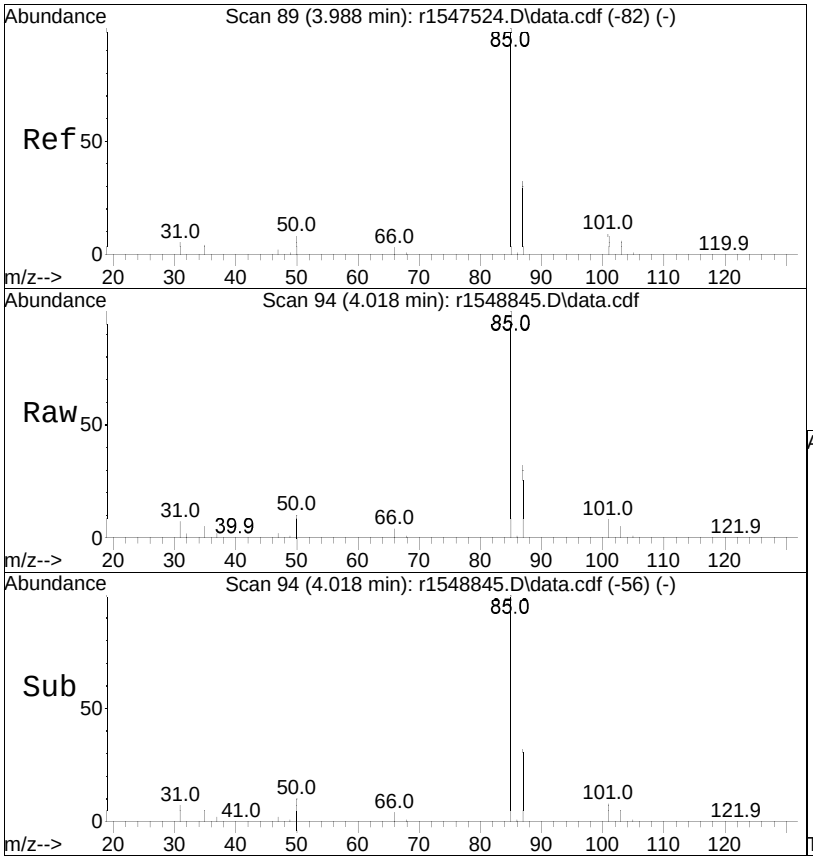
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : Default-LCS-AP2 - All compounds listed8T\r1548845.D

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548845.D
Acq On : 18 Jun 2024 2:34 PM
Operator : AIRLAB15:JMB
Sample : WG1936045-3,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 15:43:49 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

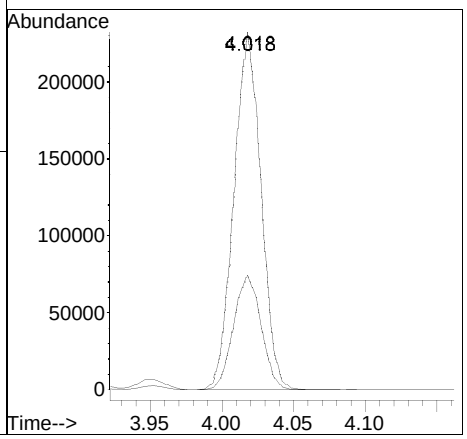


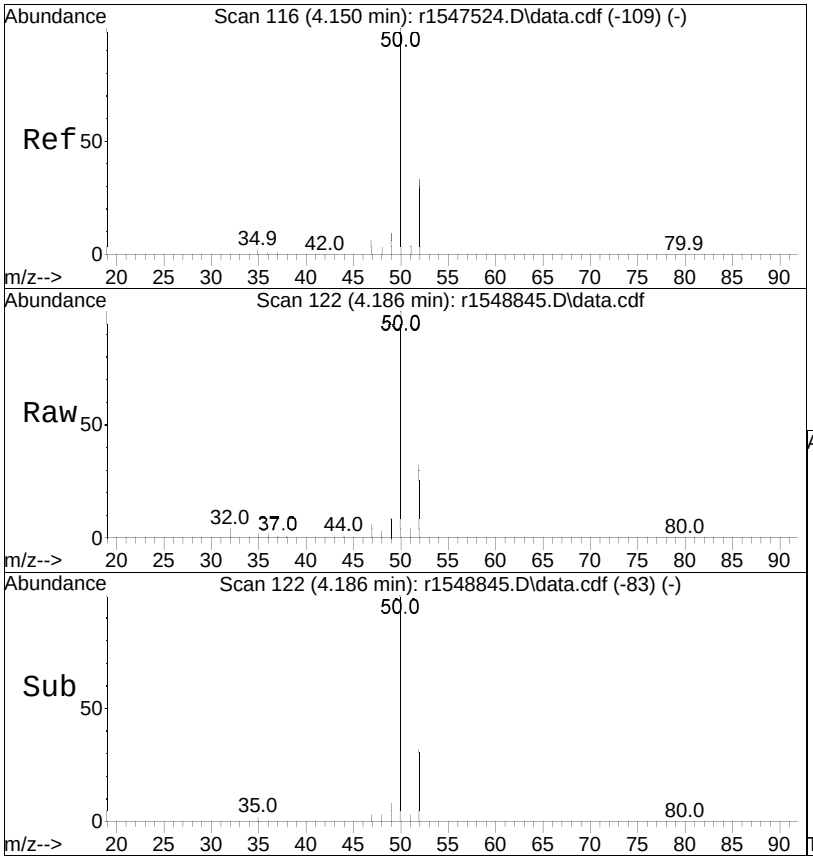


#5
dichlorodifluoromethane
Concen: 8.99 ppbV
RT: 4.018 min Scan# 94
Delta R.T. 0.030 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 85 Resp: 301205

Ion	Ratio	Lower	Upper
85	100		
87	32.1	25.8	38.8

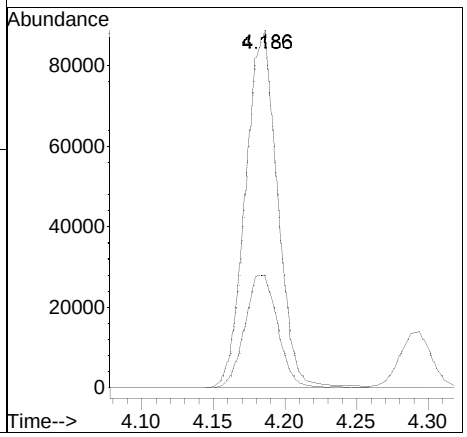


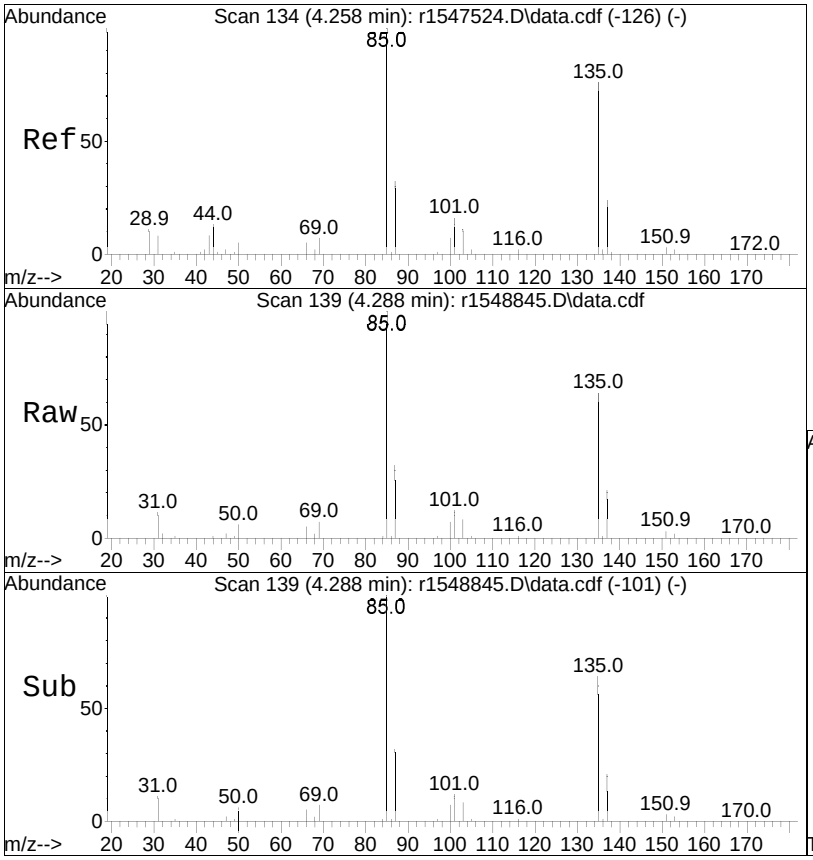


#6
chloromethane
Concen: 10.70 ppbV
RT: 4.186 min Scan# 122
Delta R.T. 0.036 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 50 Resp: 136405

Ion	Ratio	Lower	Upper
50	100		
52	31.9	26.0	39.0

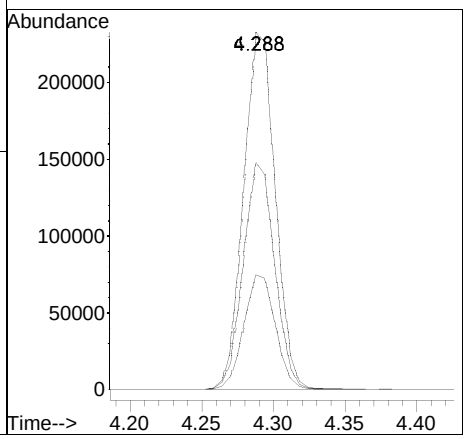


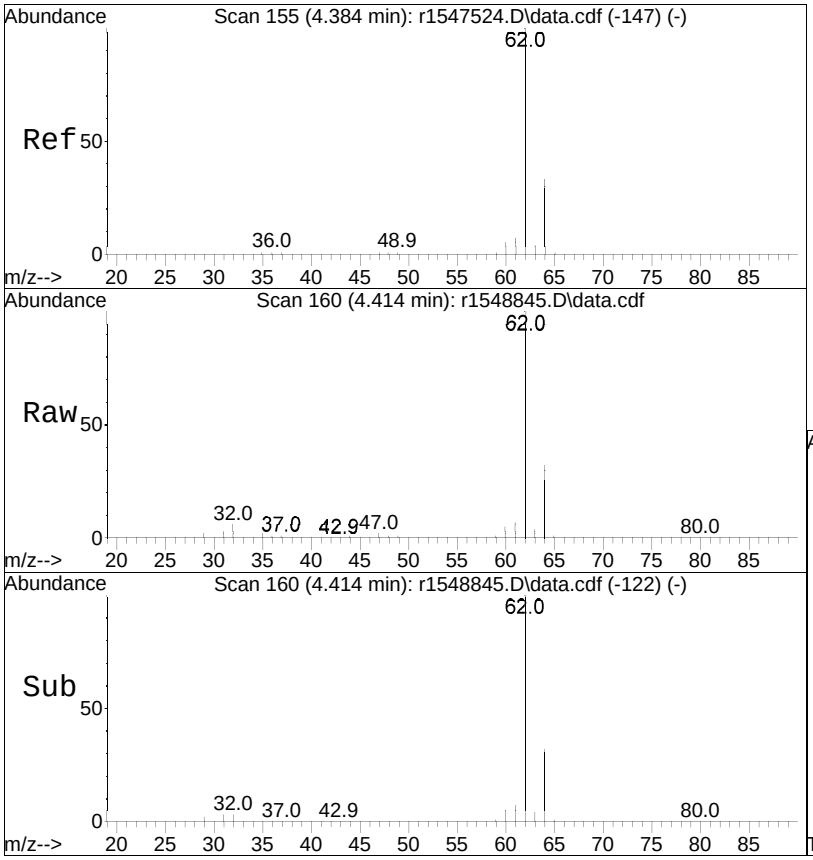


#7
Freon-114
Concen: 10.83 ppbV
RT: 4.288 min Scan# 139
Delta R.T. 0.030 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 85 Resp: 354224

Ion	Ratio	Lower	Upper
85	100		
87	32.3	25.8	38.6
135	63.7	60.7	91.1

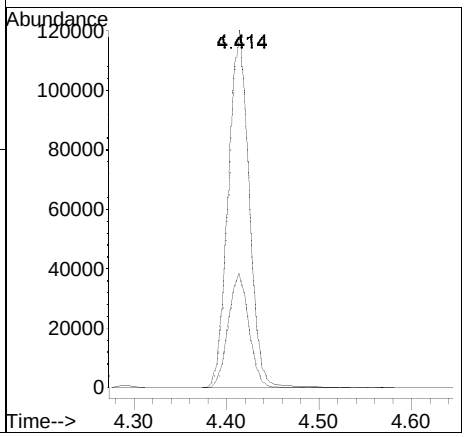


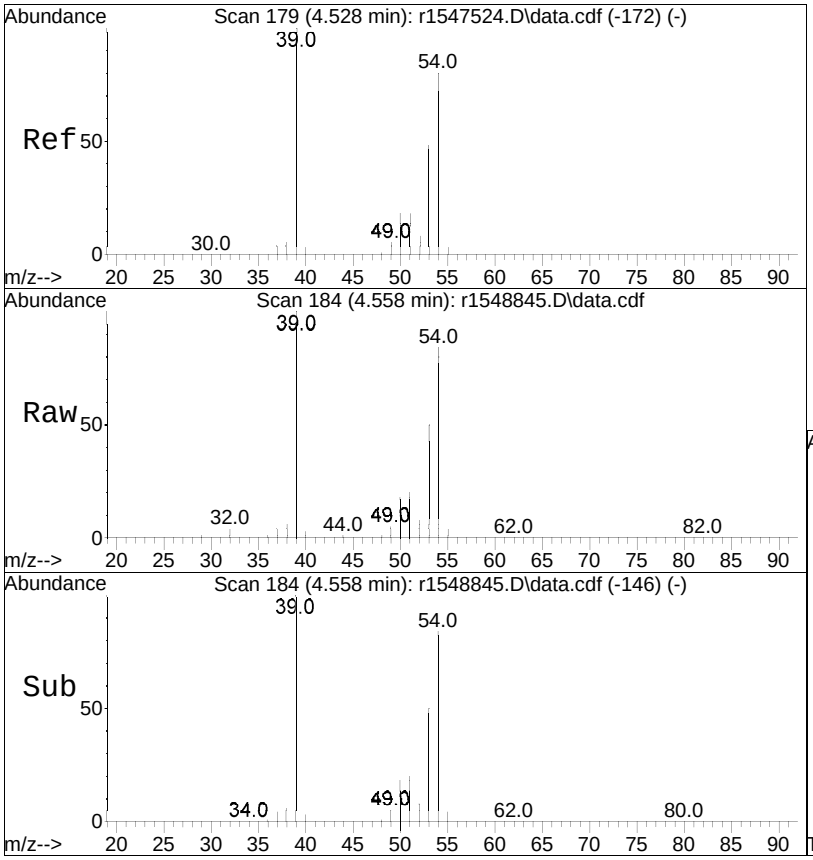


#9
vinyl chloride
Concen: 9.80 ppbV
RT: 4.414 min Scan# 160
Delta R.T. 0.030 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 62 Resp: 186071

Ion	Ratio	Lower	Upper
62	100		
64	32.0	26.2	39.4

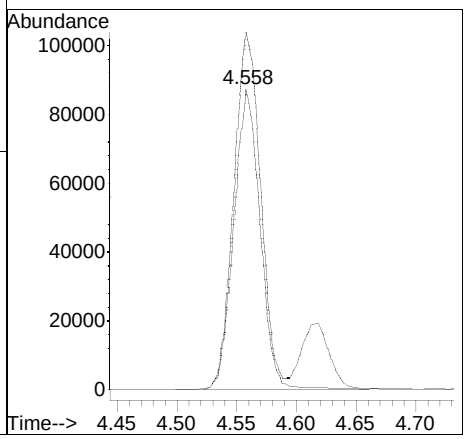


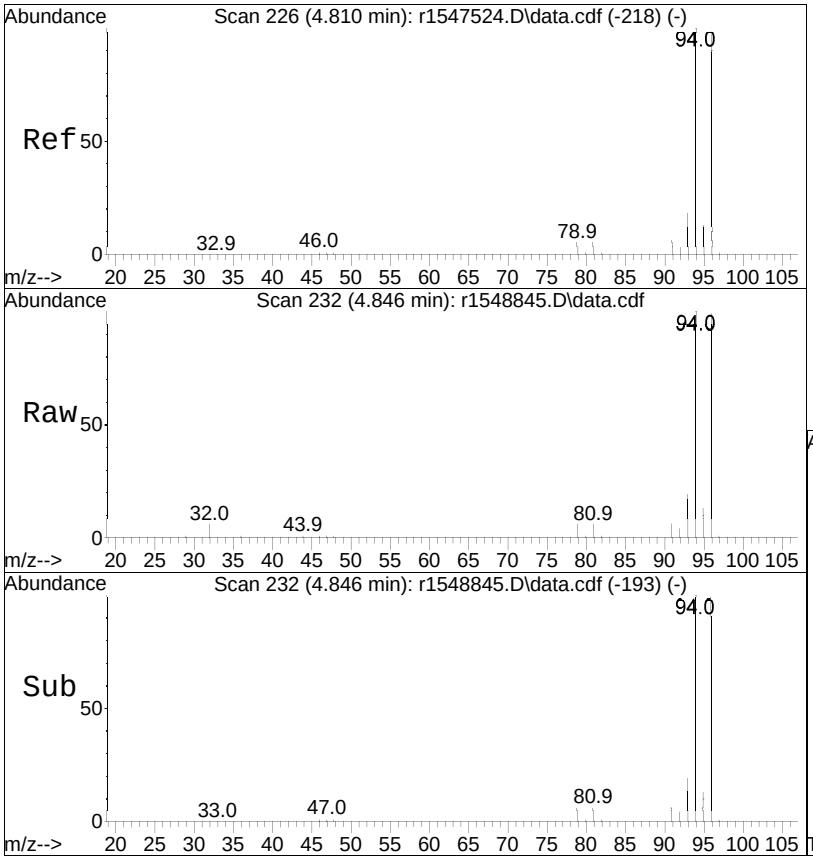


#10
1,3-butadiene
Concen: 11.84 ppbV
RT: 4.558 min Scan# 184
Delta R.T. 0.030 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 54 Resp: 133028

Ion	Ratio	Lower	Upper
54	100		
39	118.7	101.0	151.4

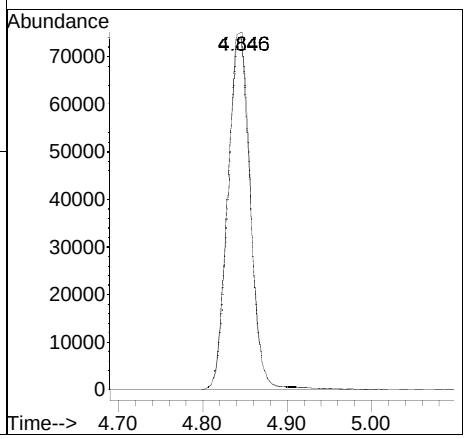


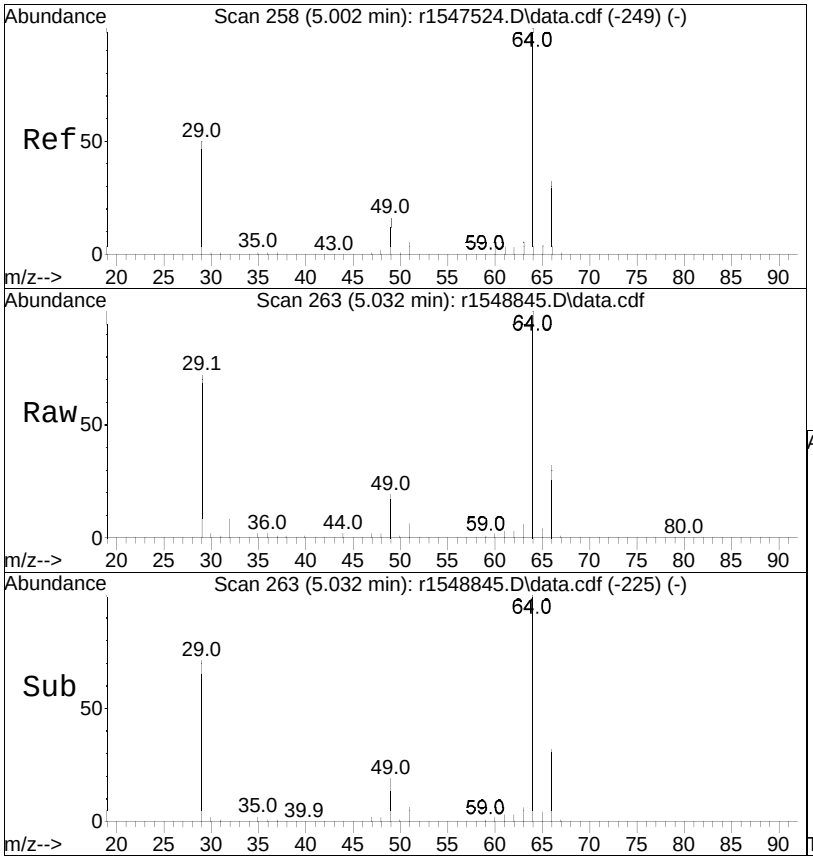


#13
bromomethane
Concen: 9.39 ppbV
RT: 4.846 min Scan# 232
Delta R.T. 0.036 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 94 Resp: 138541

Ion	Ratio	Lower	Upper
94	100		
96	99.0	77.6	116.4

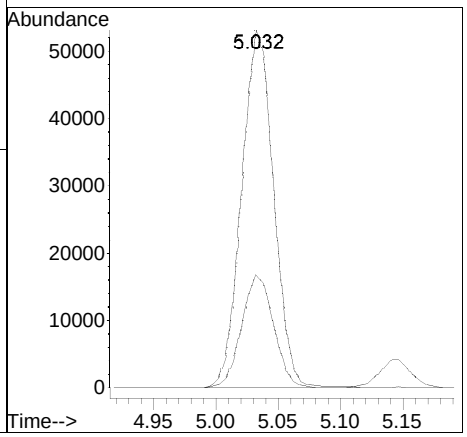


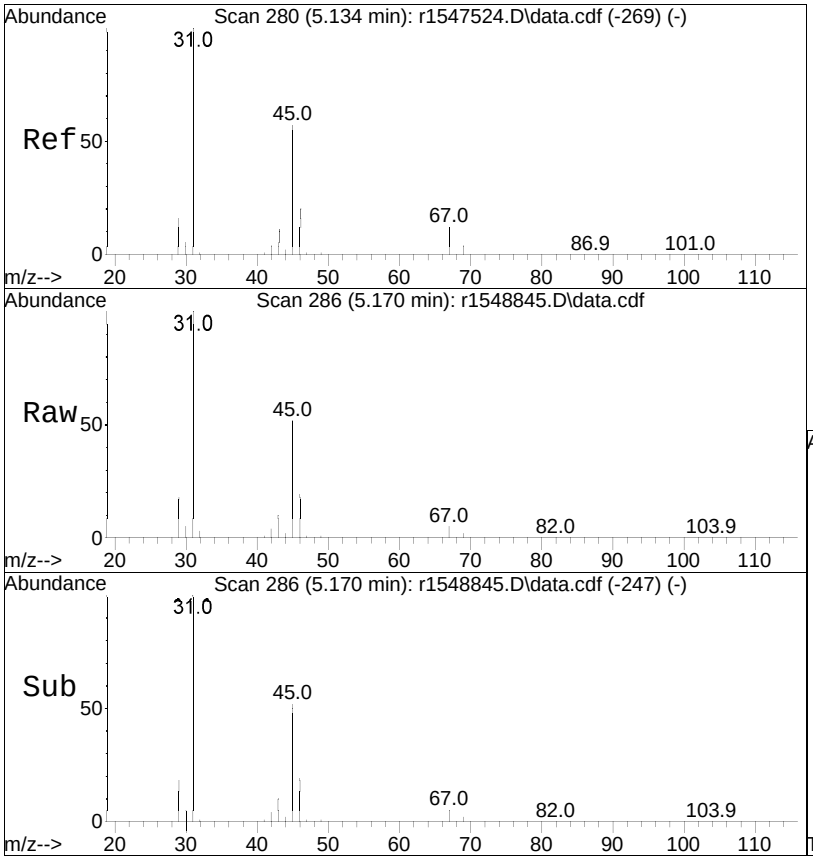


#14
chloroethane
Concen: 9.51 ppbV
RT: 5.032 min Scan# 263
Delta R.T. 0.030 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 64 Resp: 94020

Ion	Ratio	Lower	Upper
64	100		
66	31.6	25.4	38.2

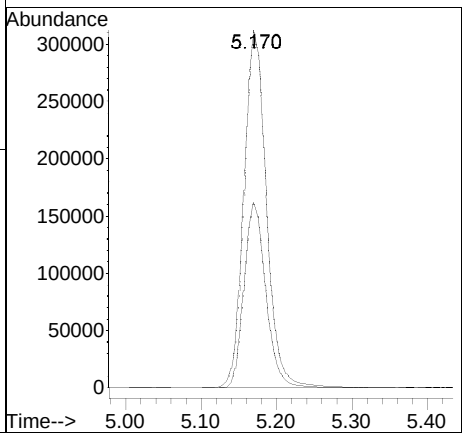


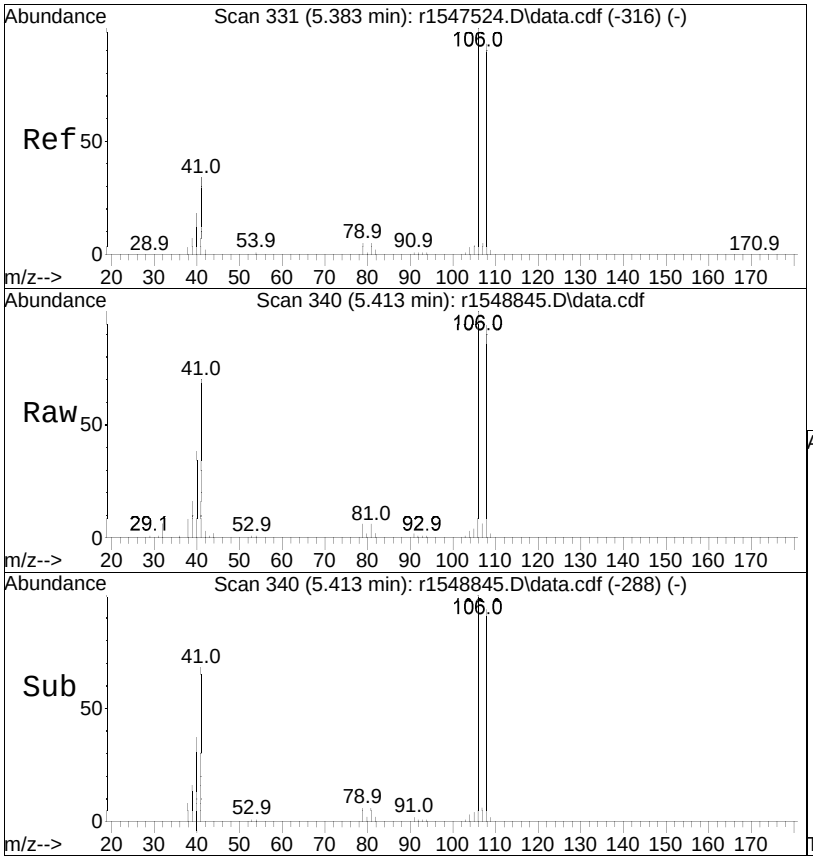


#15
ethanol
Concen: 61.54 ppbV
RT: 5.170 min Scan# 286
Delta R.T. 0.036 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 31 Resp: 624373

Ion	Ratio	Lower	Upper
31	100		
45	52.1	45.7	68.5

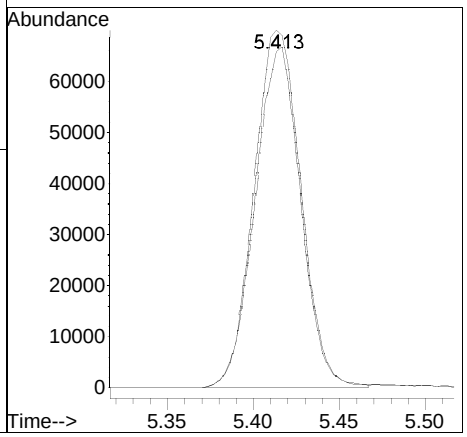


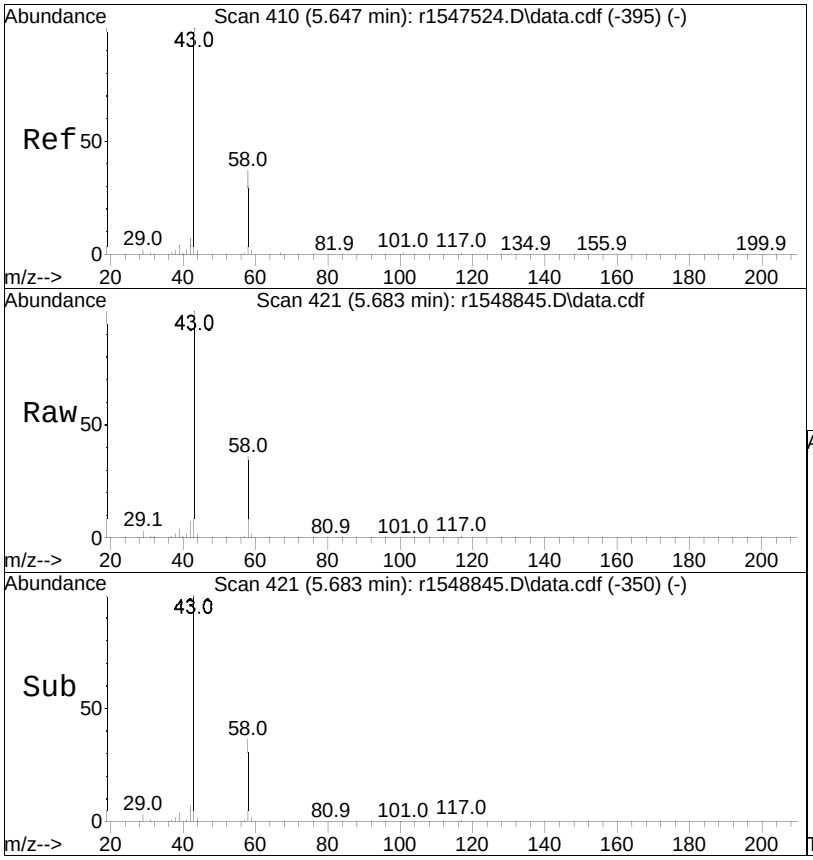


#17
vinyl bromide
Concen: 8.18 ppbV
RT: 5.413 min Scan# 340
Delta R.T. 0.030 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion:106 Resp: 132257

Ion	Ratio	Lower	Upper
106	100		
108	94.1	74.4	111.6

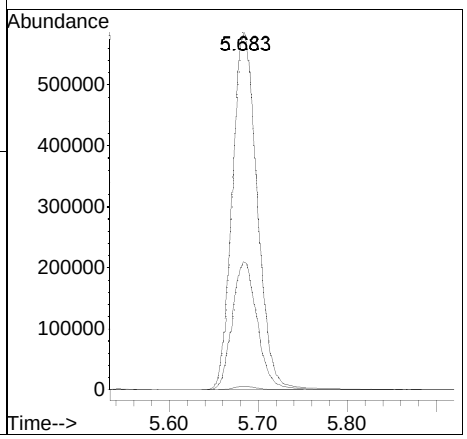


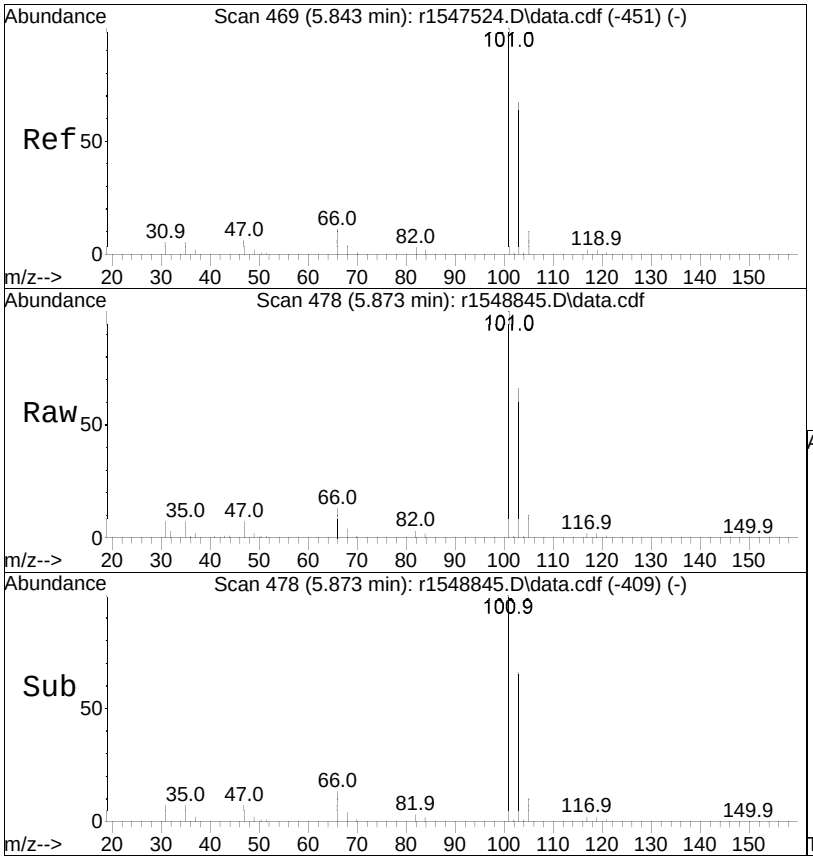


#19
acetone
Concen: 55.03 ppbV
RT: 5.683 min Scan# 421
Delta R.T. 0.037 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 43 Resp: 1125919

Ion	Ratio	Lower	Upper
43	100		
58	35.8	29.4	44.0
57	0.9	0.7	1.1

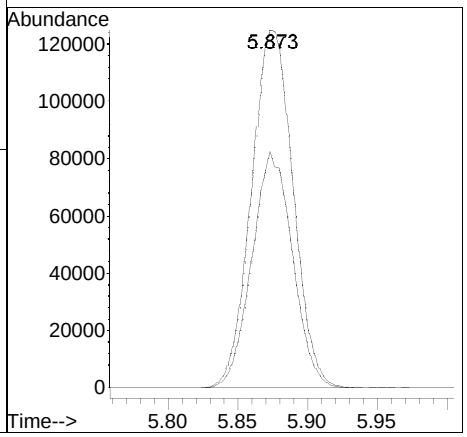


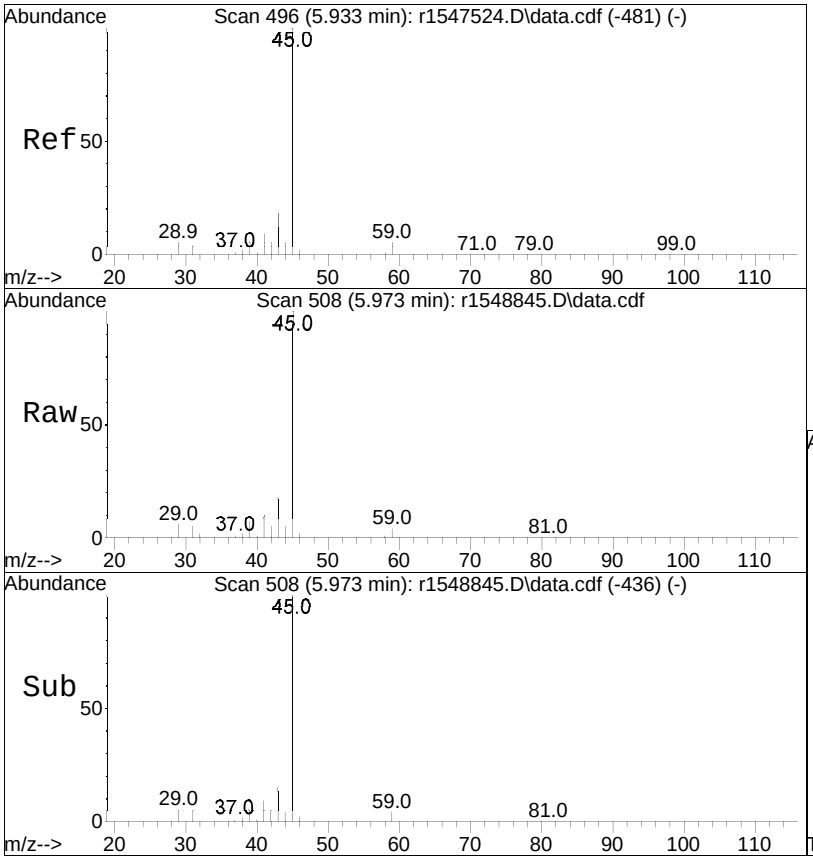


#21
trichlorofluoromethane
Concen: 9.39 ppbV
RT: 5.873 min Scan# 478
Delta R.T. 0.030 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion:101 Resp: 256988

Ion	Ratio	Lower	Upper
101	100		
103	66.1	53.4	80.0

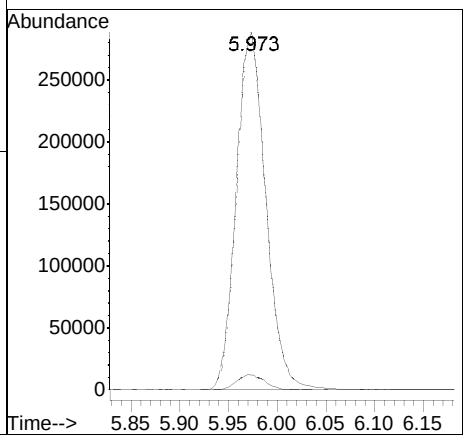


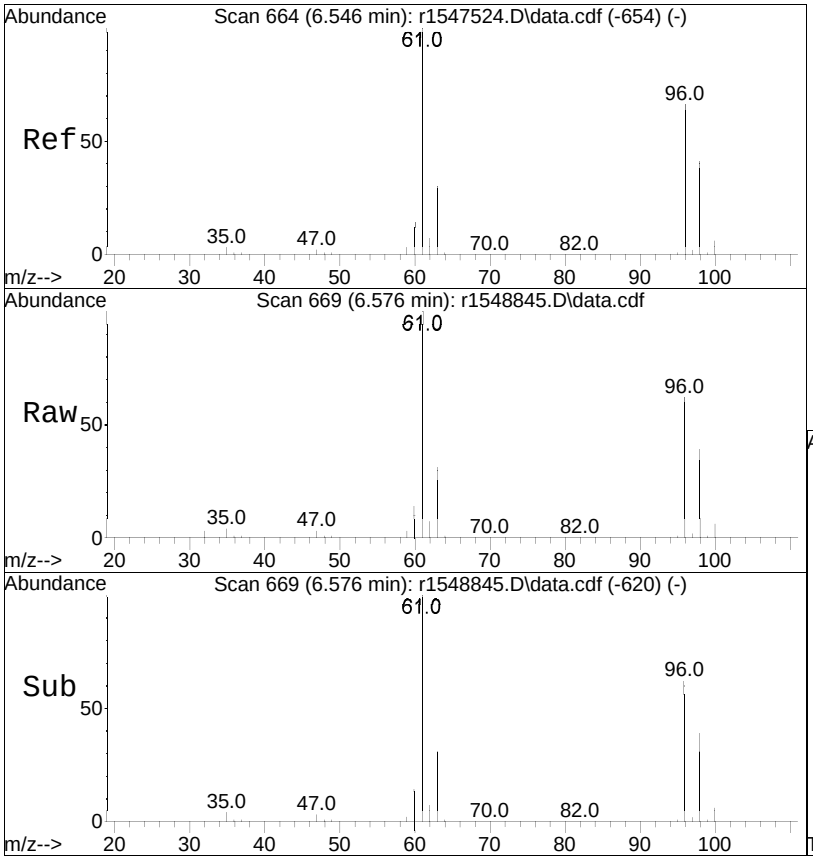


#22
isopropyl alcohol
Concen: 23.99 ppbV
RT: 5.973 min Scan# 508
Delta R.T. 0.040 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 45 Resp: 602434

Ion	Ratio	Lower	Upper
45	100		
59	4.3	3.8	5.6

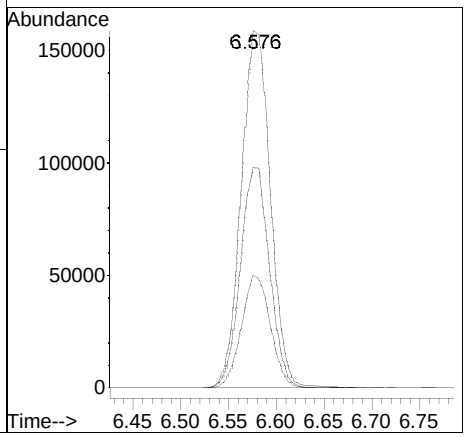


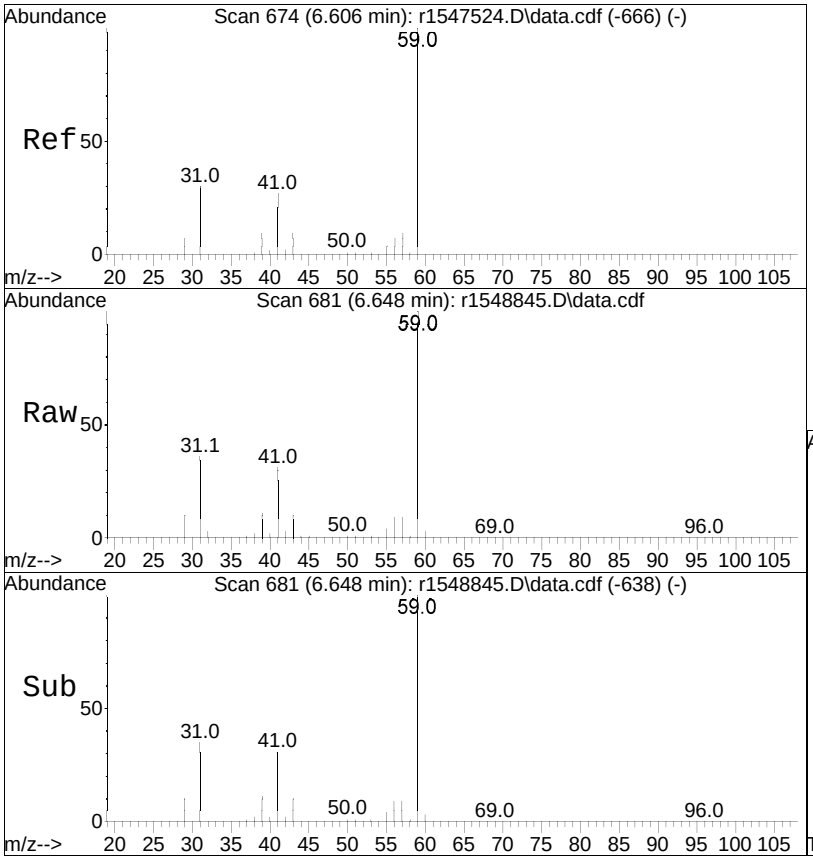


#26
1,1-dichloroethene
Concen: 9.83 ppbV
RT: 6.576 min Scan# 669
Delta R.T. 0.030 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 61 Resp: 332900

Ion	Ratio	Lower	Upper
61	100		
96	61.6	52.6	78.8
63	31.4	24.4	36.6

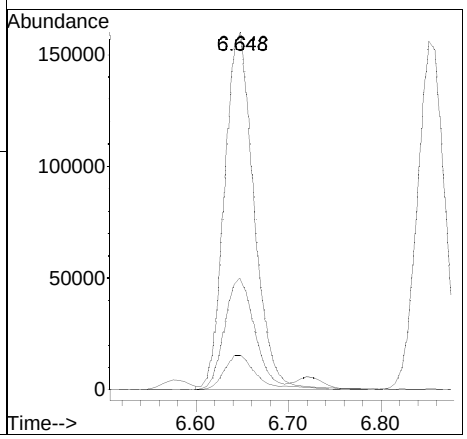


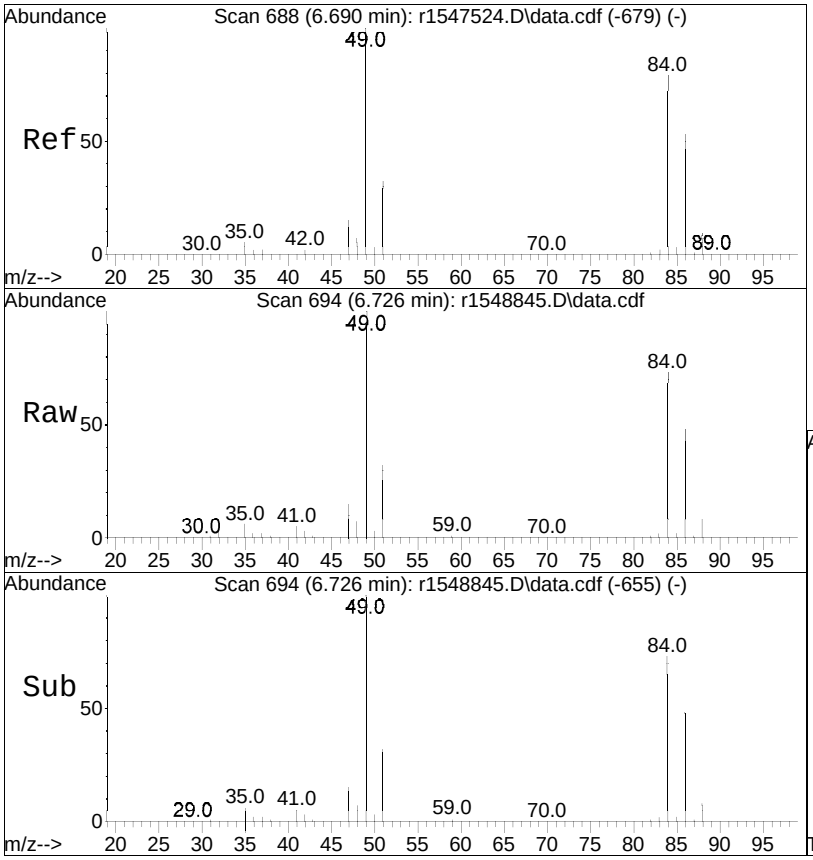


#27
tertiary butyl alcohol
Concen: 8.80 ppbV
RT: 6.648 min Scan# 681
Delta R.T. 0.042 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 59 Resp: 354174

Ion	Ratio	Lower	Upper
59	100		
41	31.3	21.3	31.9
43	9.7	7.4	11.0

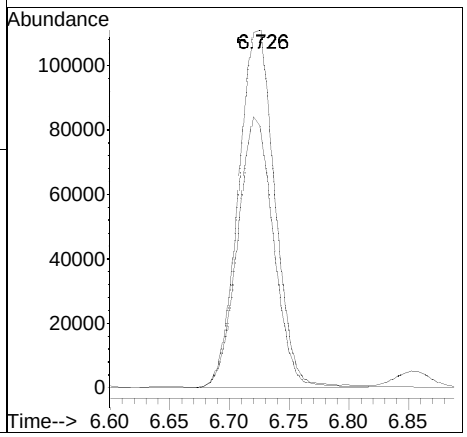


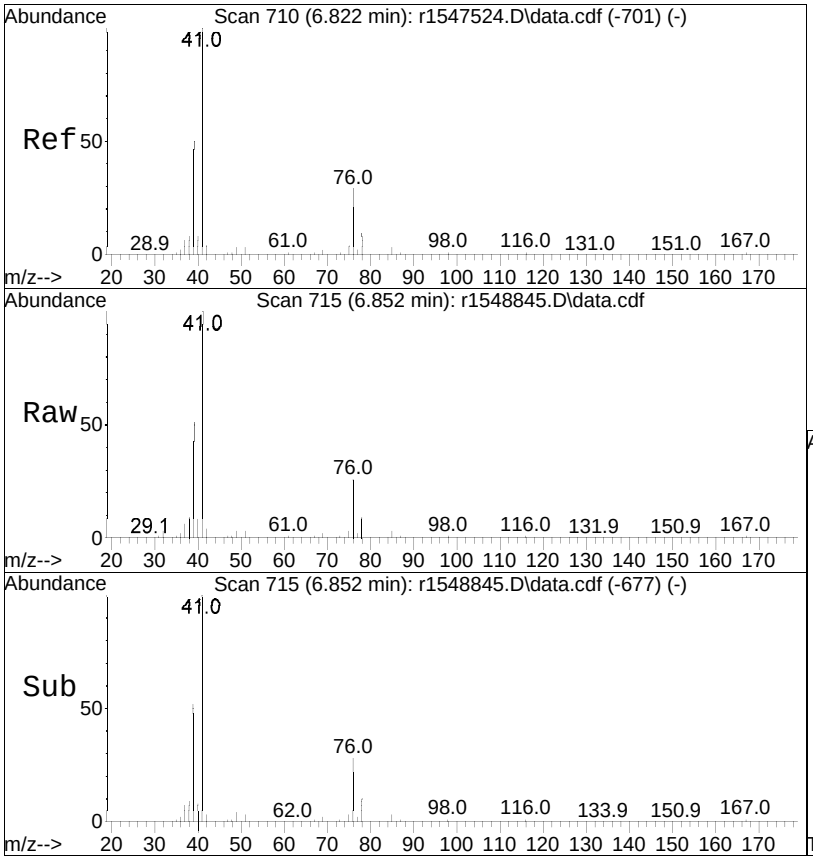


#28
methylene chloride
Concen: 10.13 ppbV
RT: 6.726 min Scan# 694
Delta R.T. 0.036 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 49 Resp: 232474

Ion	Ratio	Lower	Upper
49	100		
84	73.2	63.4	95.2

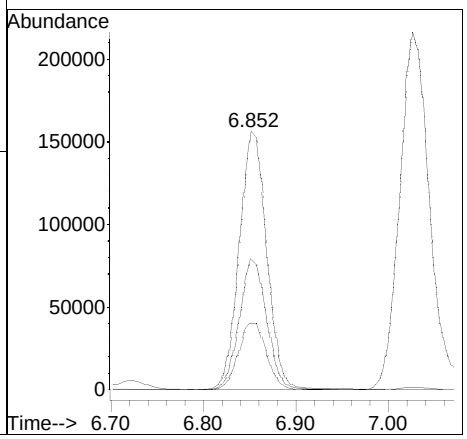


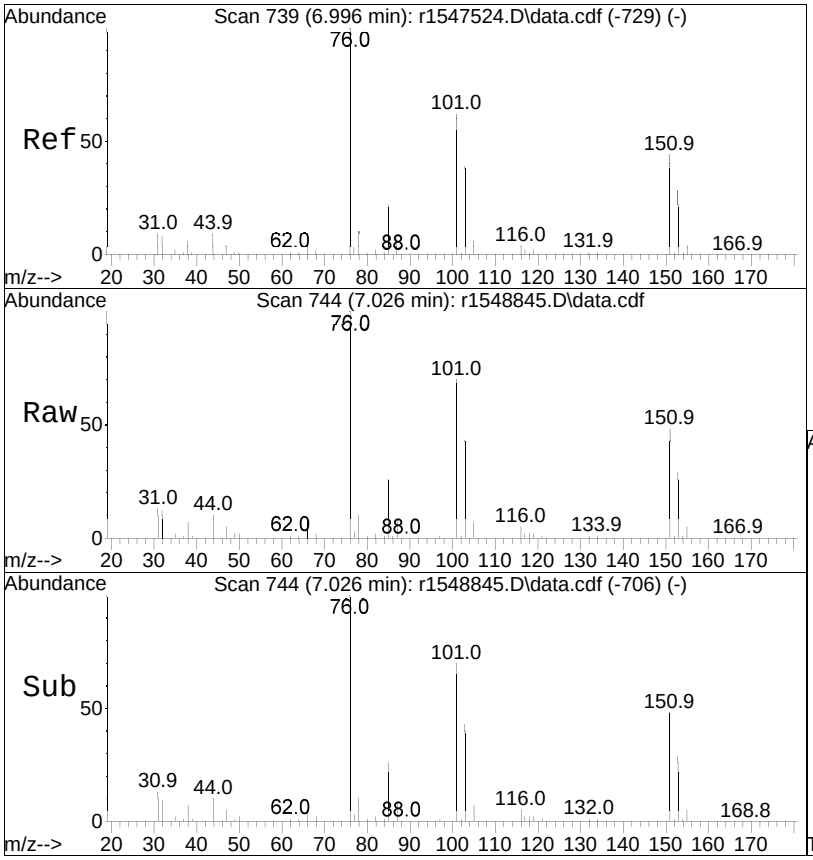


#29
3-chloropropene
Concen: 10.50 ppbV
RT: 6.852 min Scan# 715
Delta R.T. 0.030 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 41 Resp: 321889

Ion	Ratio	Lower	Upper
41	100		
39	50.6	40.4	60.6
76	26.1	23.3	34.9

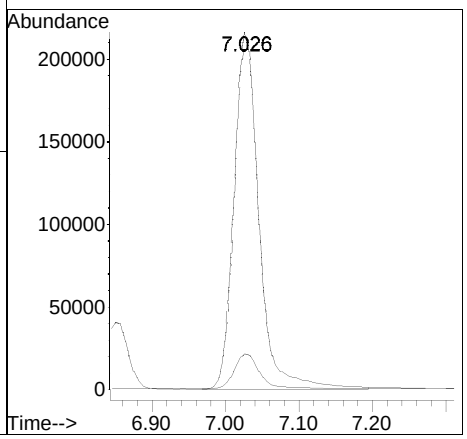


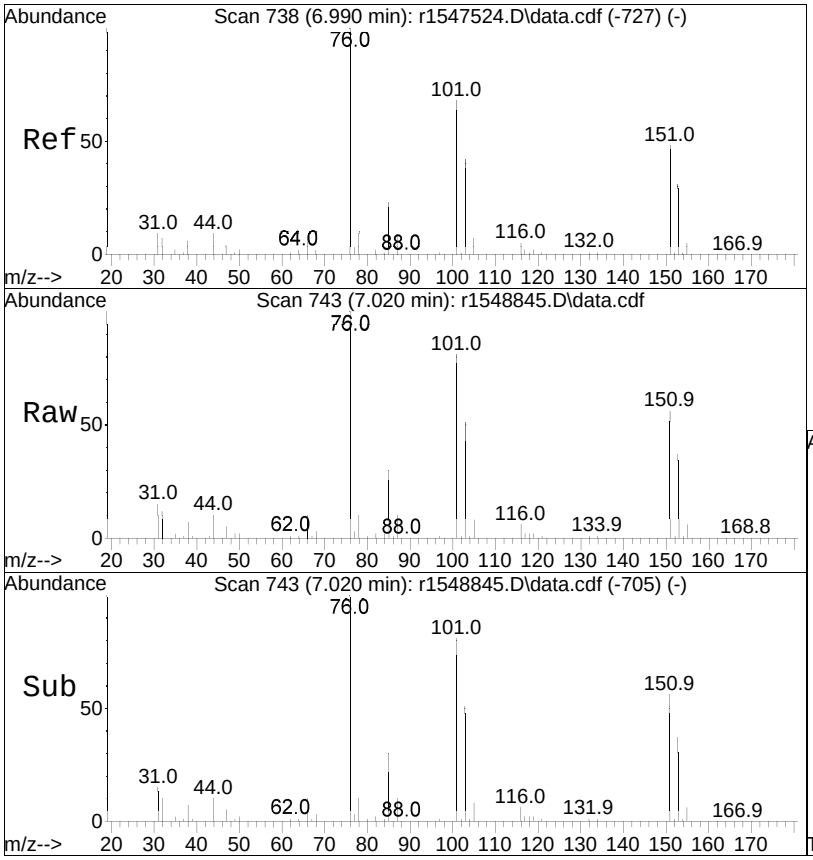


#30
carbon disulfide
Concen: 8.64 ppbV
RT: 7.026 min Scan# 744
Delta R.T. 0.030 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 76 Resp: 505808

Ion	Ratio	Lower	Upper
76	100		
44	10.1	7.5	11.3

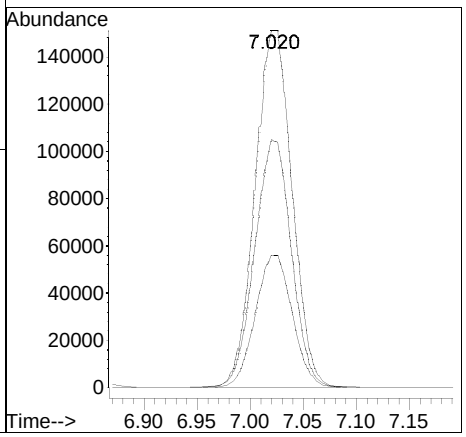


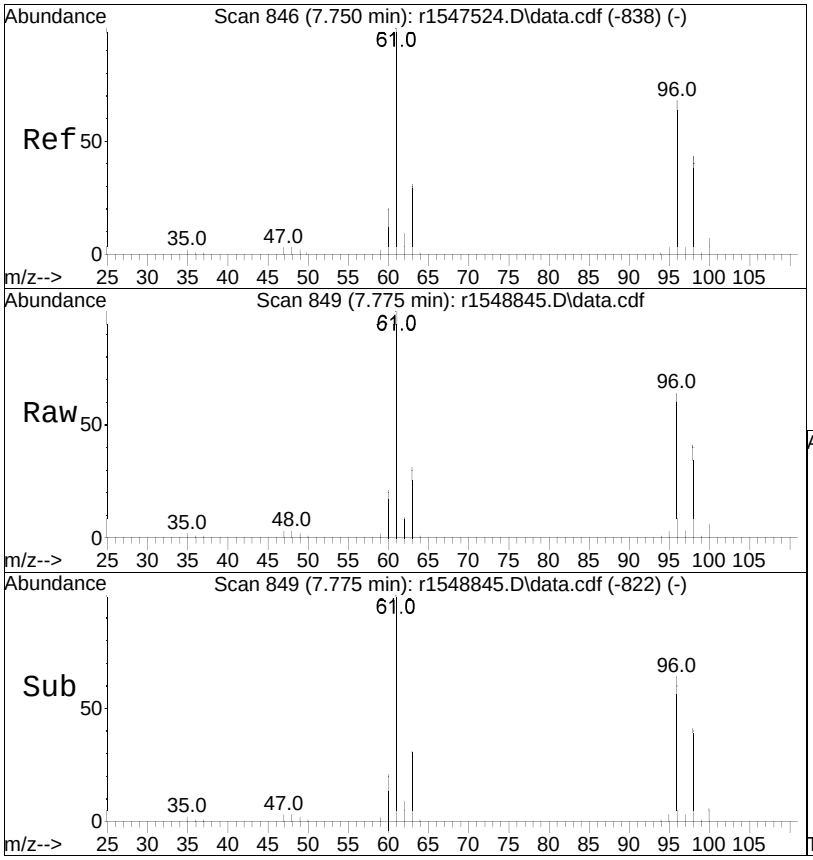


#31
Freon 113
Concen: 8.82 ppbV
RT: 7.020 min Scan# 743
Delta R.T. 0.030 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion:101 Resp: 363386

Ion	Ratio	Lower	Upper
101	100		
85	37.2	27.6	41.4
151	69.5	56.9	85.3

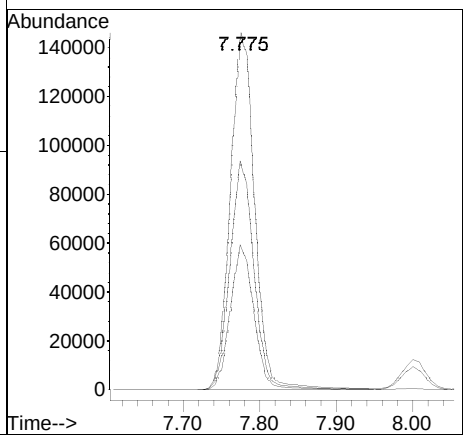


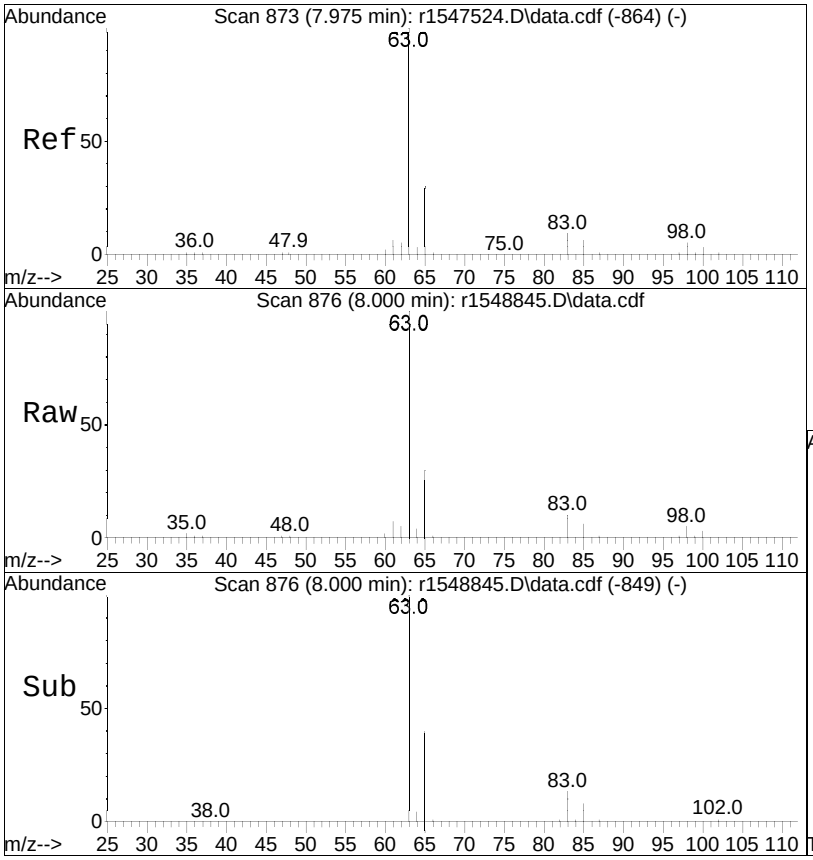


#32
trans-1,2-dichloroethene
Concen: 9.53 ppbV
RT: 7.775 min Scan# 849
Delta R.T. 0.025 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 61 Resp: 320839

Ion	Ratio	Lower	Upper
61	100		
96	64.1	54.3	81.5
98	40.6	34.1	51.1

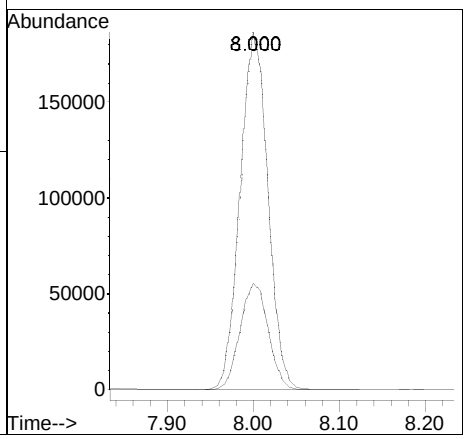


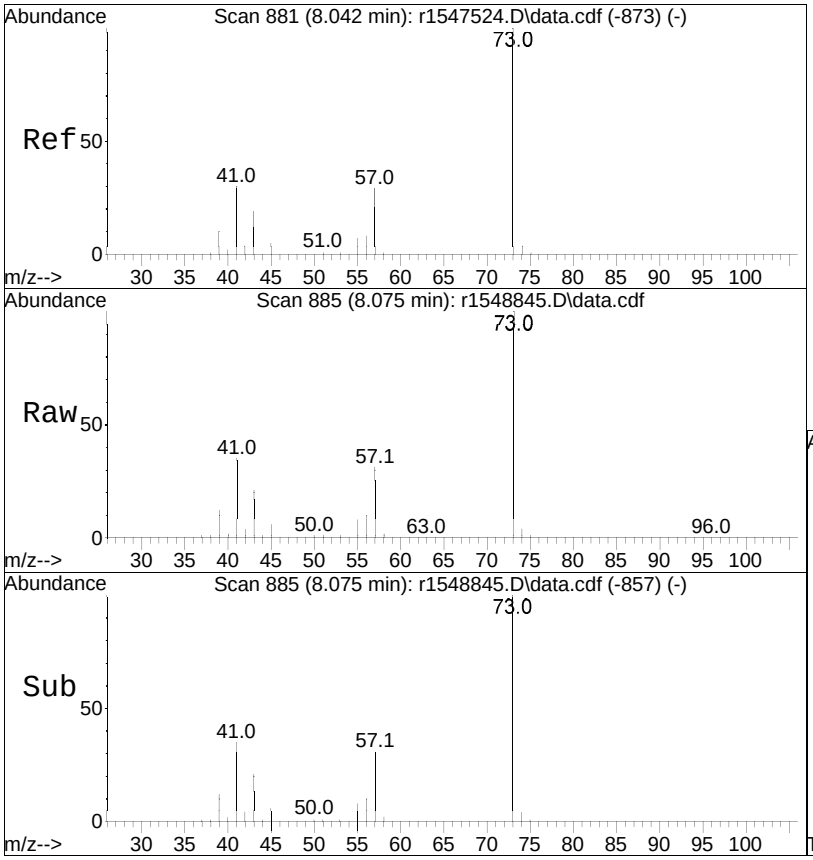


#33
1,1-dichloroethane
Concen: 9.32 ppbV
RT: 8.000 min Scan# 876
Delta R.T. 0.025 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 63 Resp: 413167

Ion	Ratio	Lower	Upper
63	100		
65	29.9	24.2	36.4

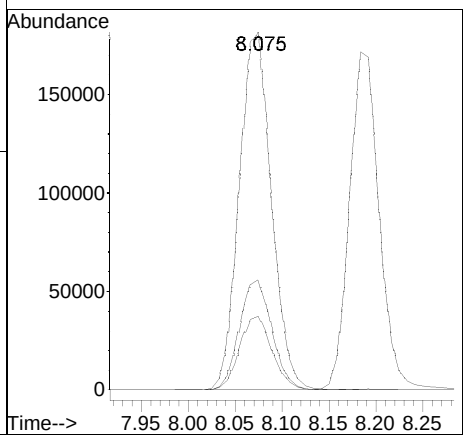


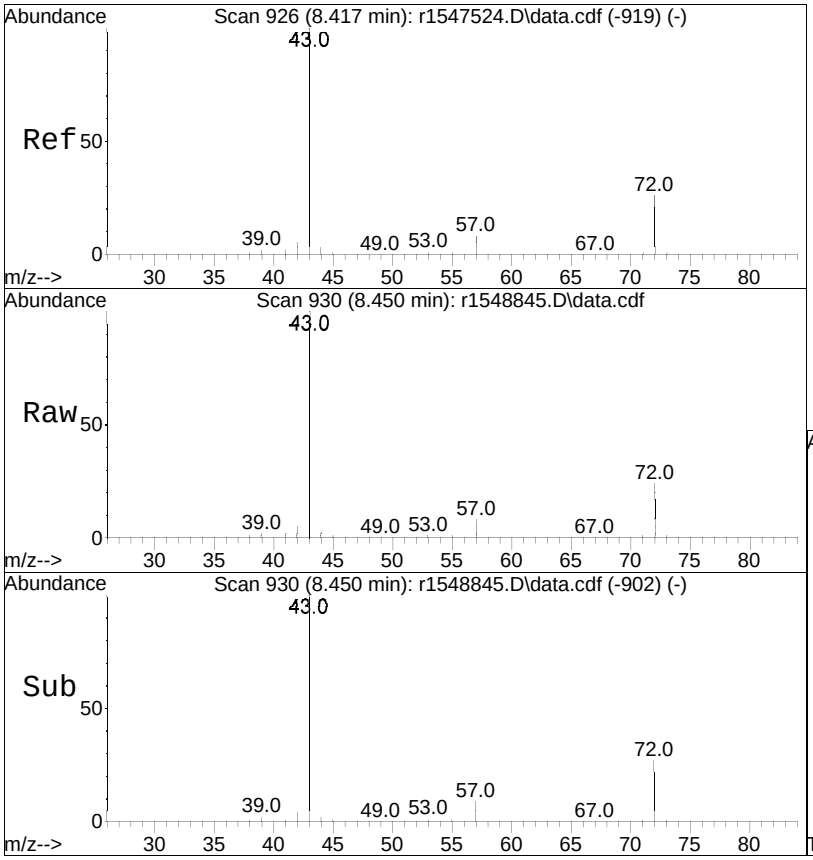


#34
MTBE
Concen: 8.94 ppbV
RT: 8.075 min Scan# 885
Delta R.T. 0.033 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 73 Resp: 434086

Ion	Ratio	Lower	Upper
73	100		
57	30.7	23.5	35.3
43	20.6	15.4	23.0

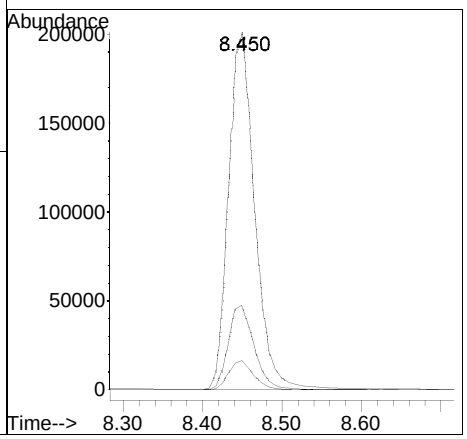


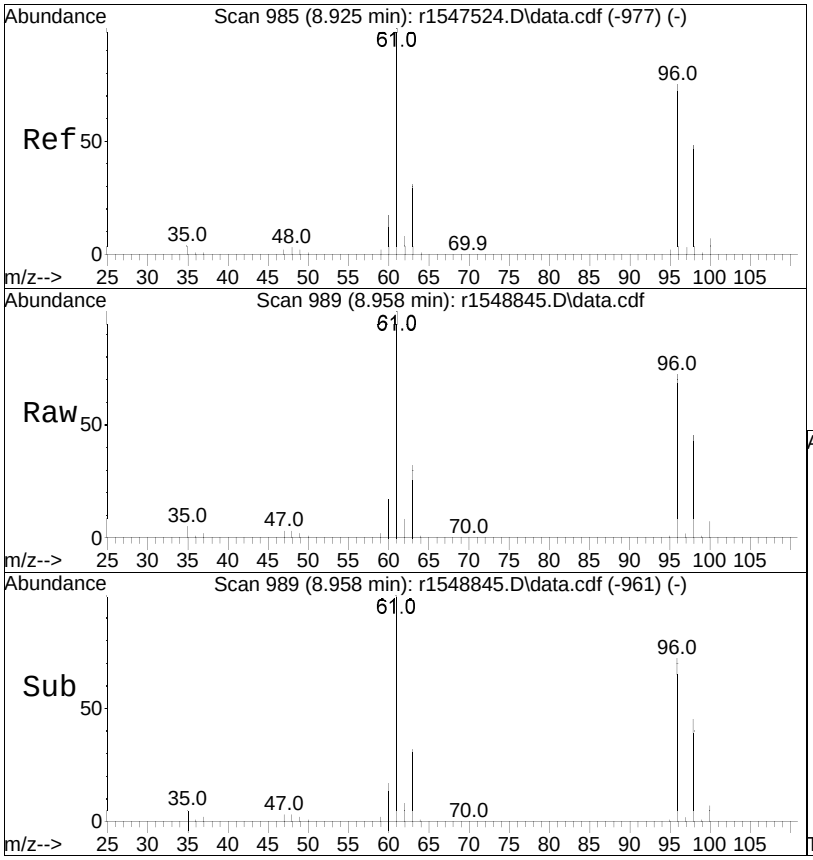


#36
2-butanone
Concen: 9.85 ppbV
RT: 8.450 min Scan# 930
Delta R.T. 0.033 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 43 Resp: 451380

Ion	Ratio	Lower	Upper
43	100		
72	23.7	20.9	31.3
57	8.1	6.6	10.0

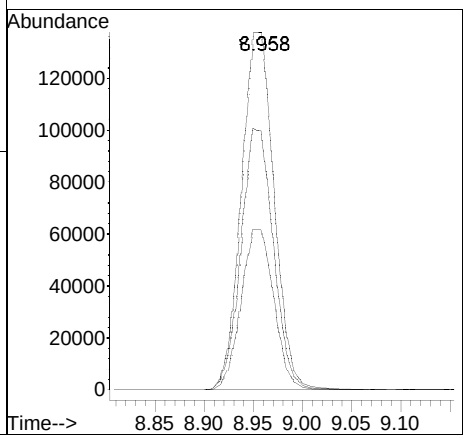


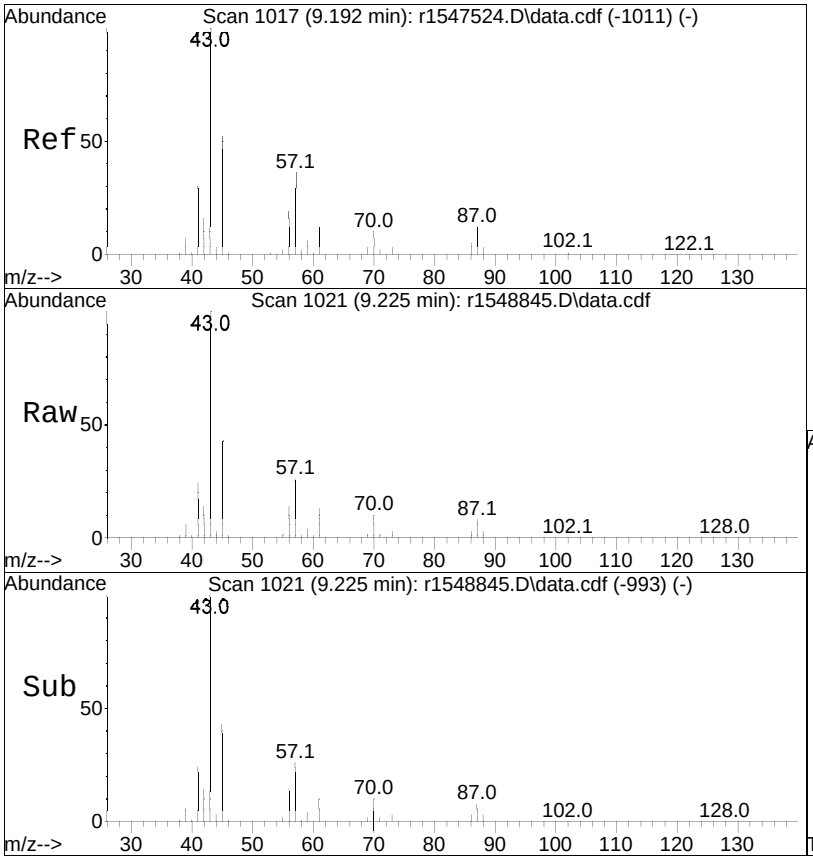


#37
cis-1,2-dichloroethene
Concen: 9.68 ppbV
RT: 8.958 min Scan# 989
Delta R.T. 0.033 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 61 Resp: 316078

Ion	Ratio	Lower	Upper
61	100		
96	72.4	60.3	90.5
98	44.7	38.2	57.2

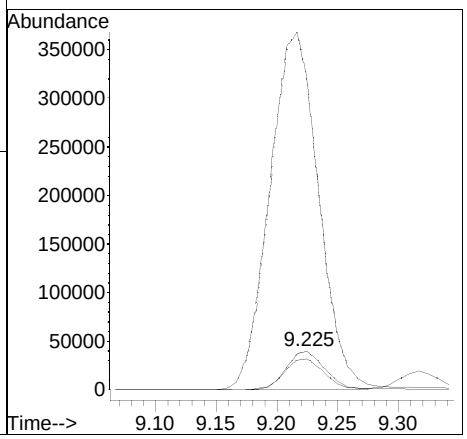


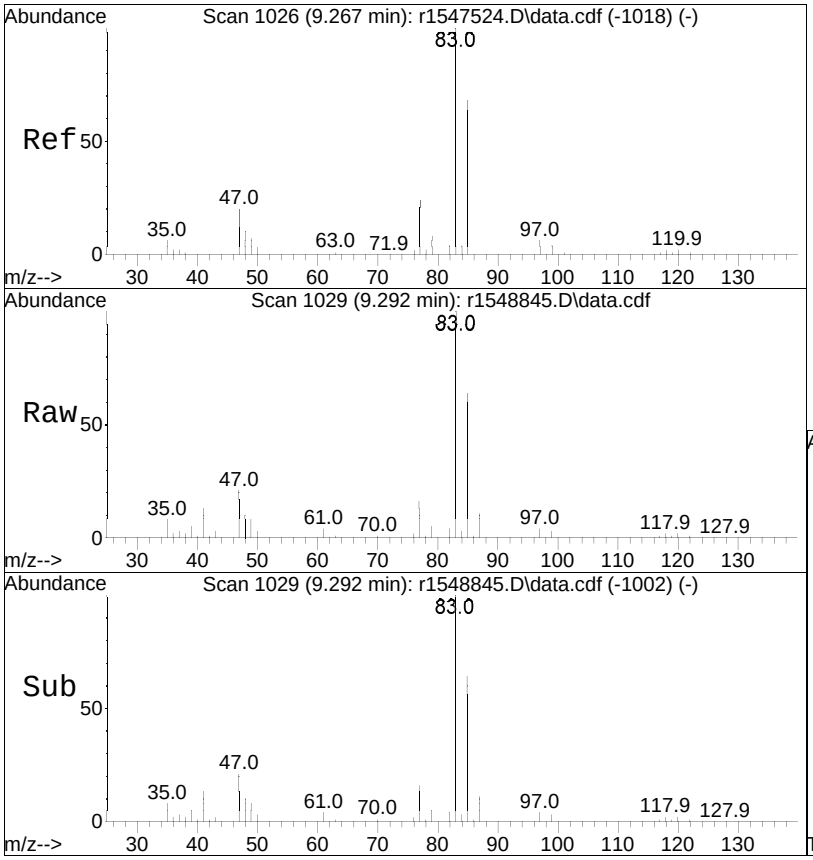


#38
Ethyl Acetate
Concen: 9.97 ppbV
RT: 9.225 min Scan# 1021
Delta R.T. 0.033 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 61 Resp: 87849

Ion	Ratio	Lower	Upper
61	100		
70	80.0	67.9	101.9
43	791.6	703.5	1055.3

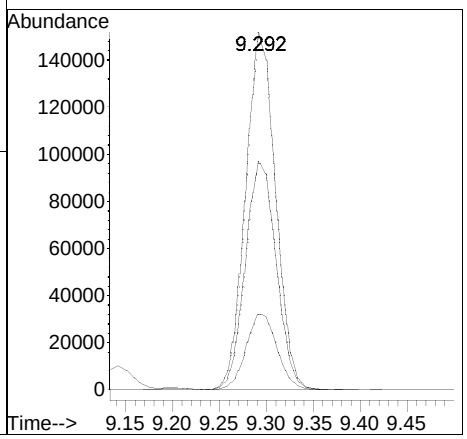


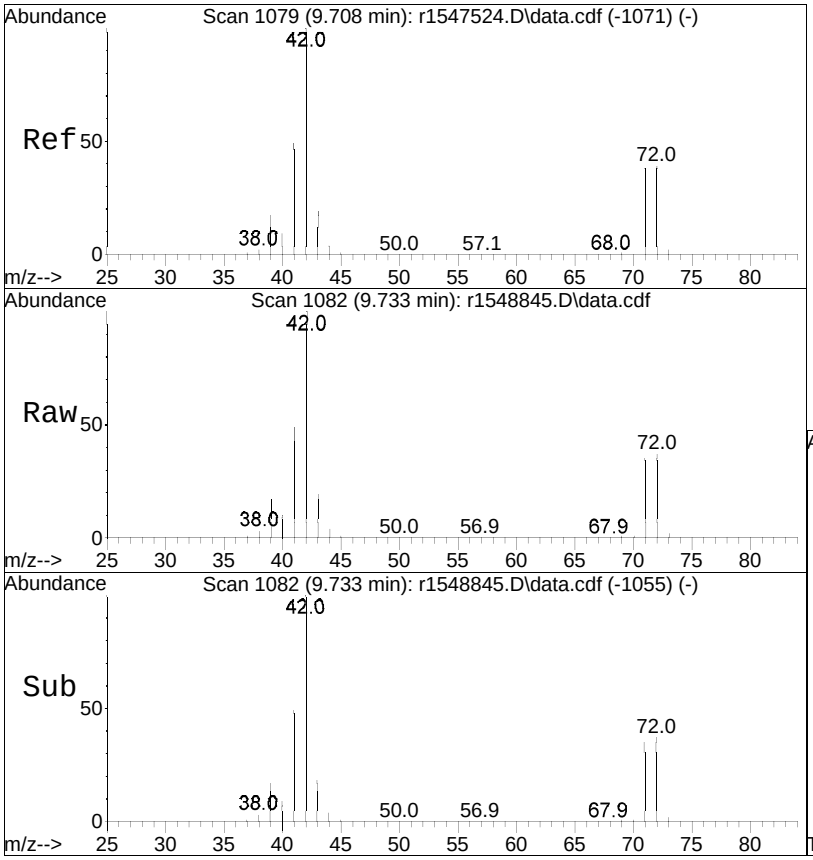


#39
chloroform
Concen: 9.36 ppbV
RT: 9.292 min Scan# 1029
Delta R.T. 0.025 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 83 Resp: 334410

Ion	Ratio	Lower	Upper
83	100		
85	63.9	54.3	81.5
47	21.4	16.4	24.6

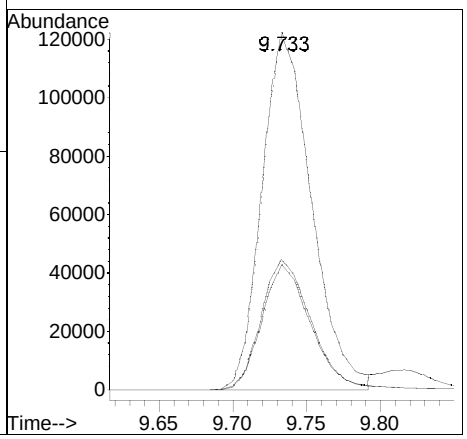


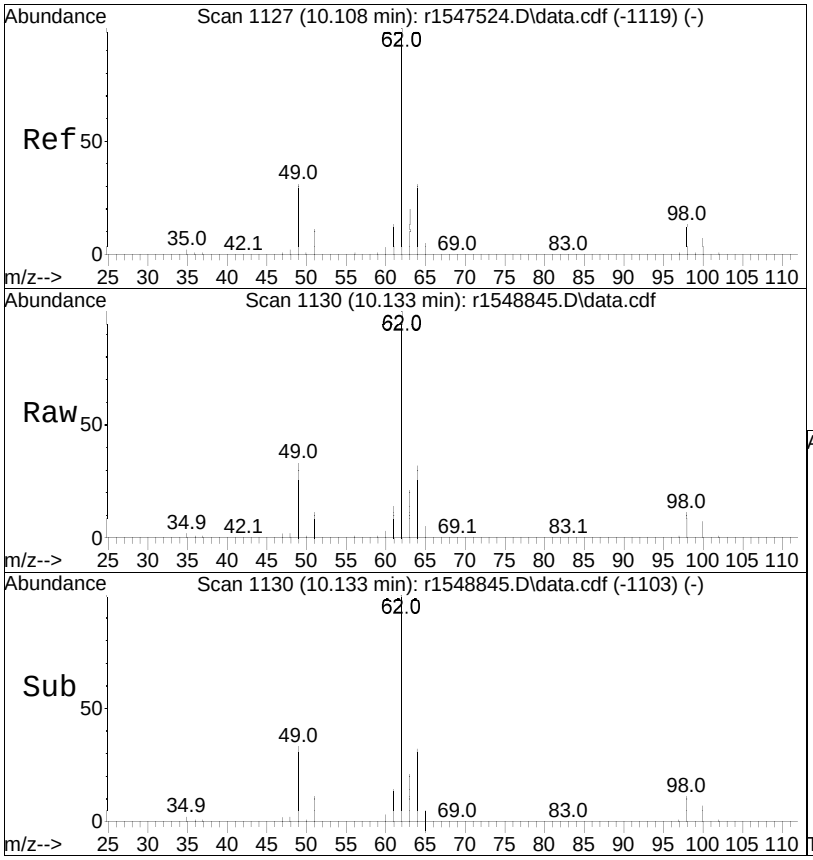


#40
Tetrahydrofuran
Concen: 9.76 ppbV
RT: 9.733 min Scan# 1082
Delta R.T. 0.025 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 42 Resp: 282838

Ion	Ratio	Lower	Upper
42	100		
71	35.0	30.1	45.1
72	36.7	31.4	47.2

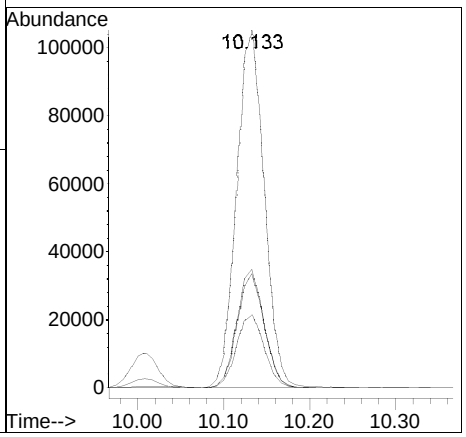


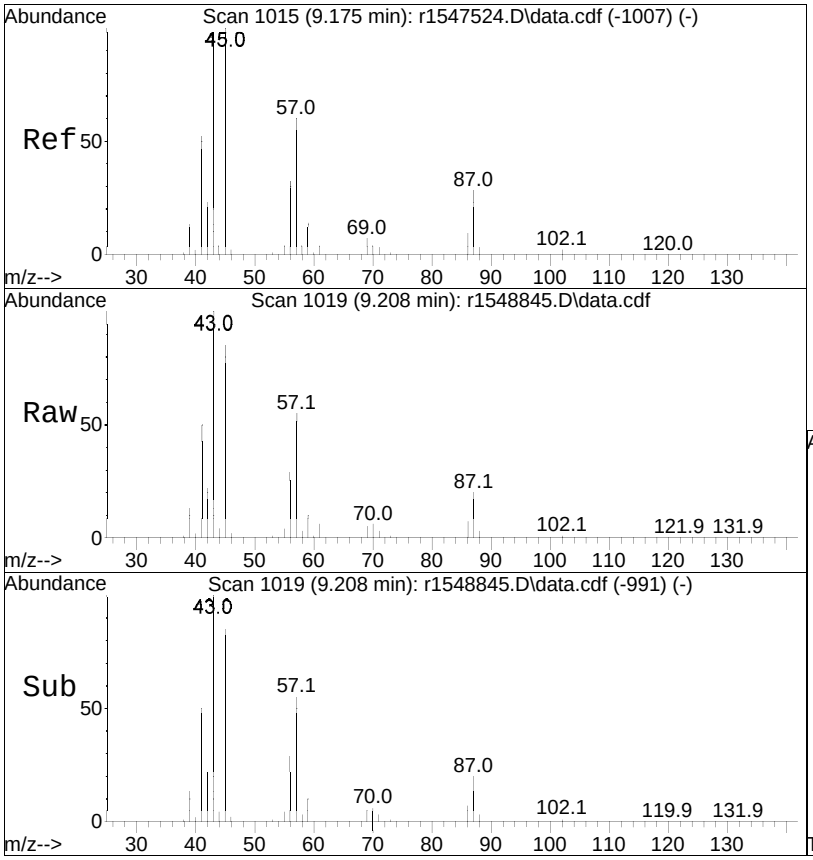


#42
1,2-dichloroethane
Concen: 9.30 ppbV
RT: 10.133 min Scan# 1130
Delta R.T. 0.025 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 62 Resp: 233371

Ion	Ratio	Lower	Upper
62	100		
64	31.9	25.2	37.8
49	33.1	24.8	37.2
63	20.6	16.3	24.5

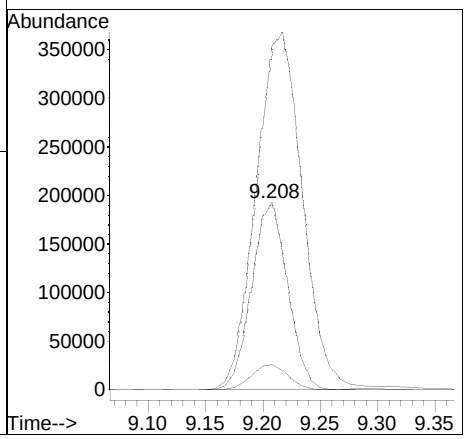


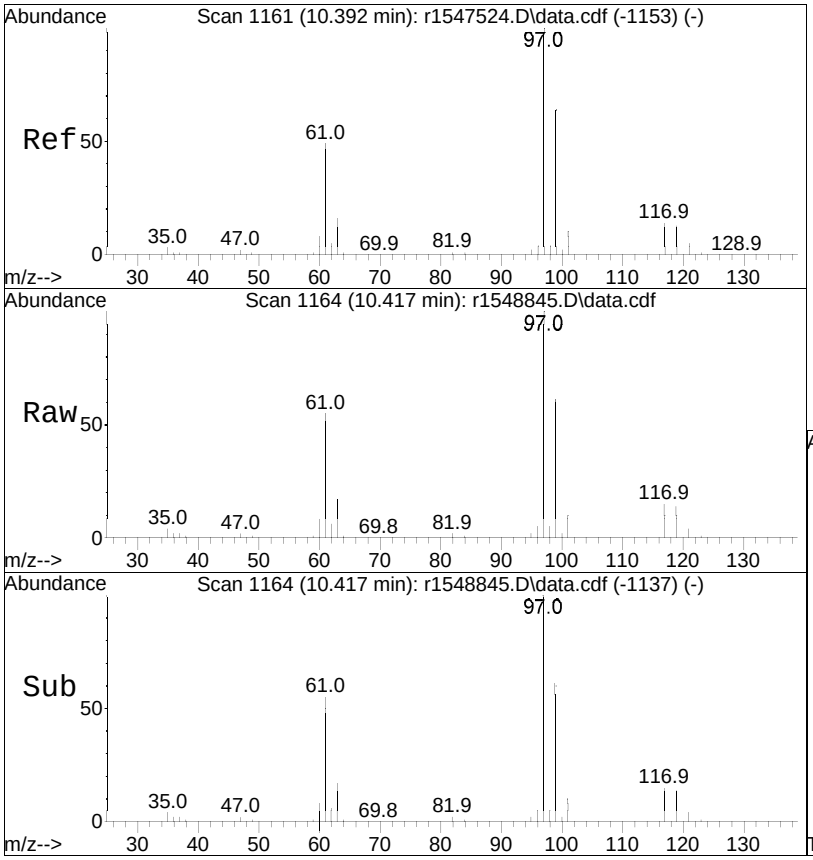


#44
hexane
Concen: 11.52 ppbV
RT: 9.208 min Scan# 1019
Delta R.T. 0.033 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 57 Resp: 420199

Ion	Ratio	Lower	Upper
57	100		
43	183.0	124.6	186.8
86	13.4	11.5	17.3

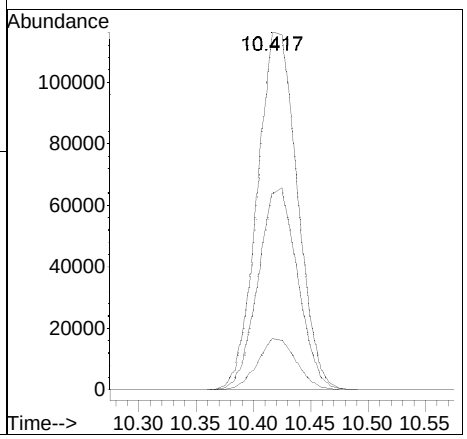


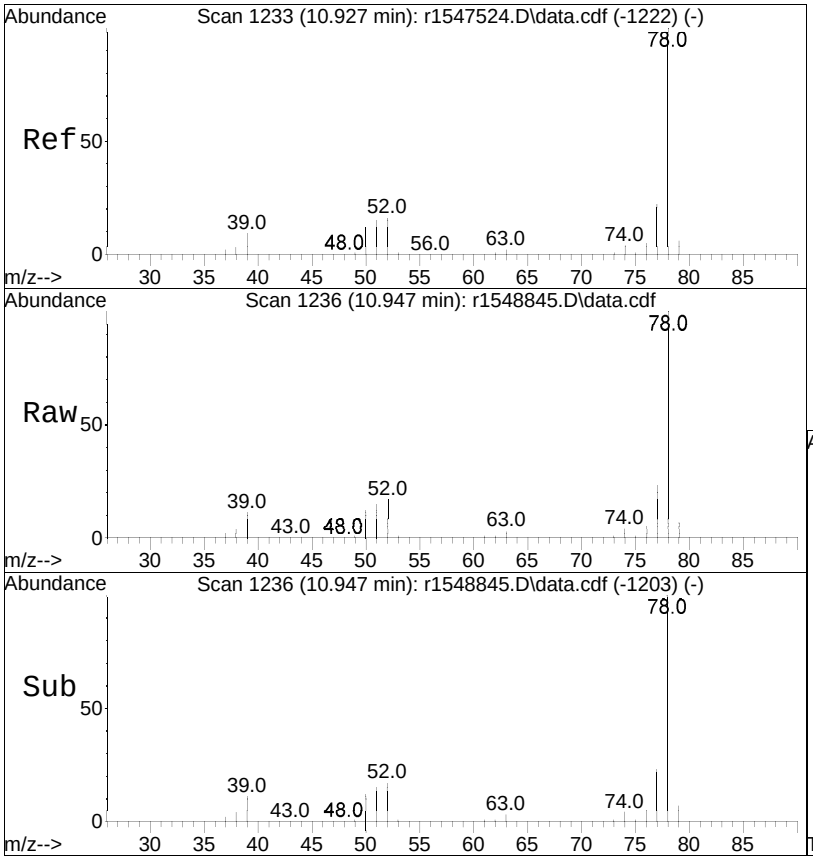


#48
1,1,1-trichloroethane
Concen: 9.95 ppbV
RT: 10.417 min Scan# 1164
Delta R.T. 0.025 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 97 Resp: 279674

Ion	Ratio	Lower	Upper
97	100		
61	54.9	38.8	58.2
119	14.4	10.6	15.8

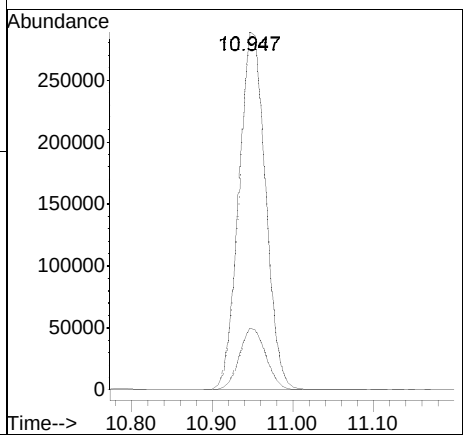


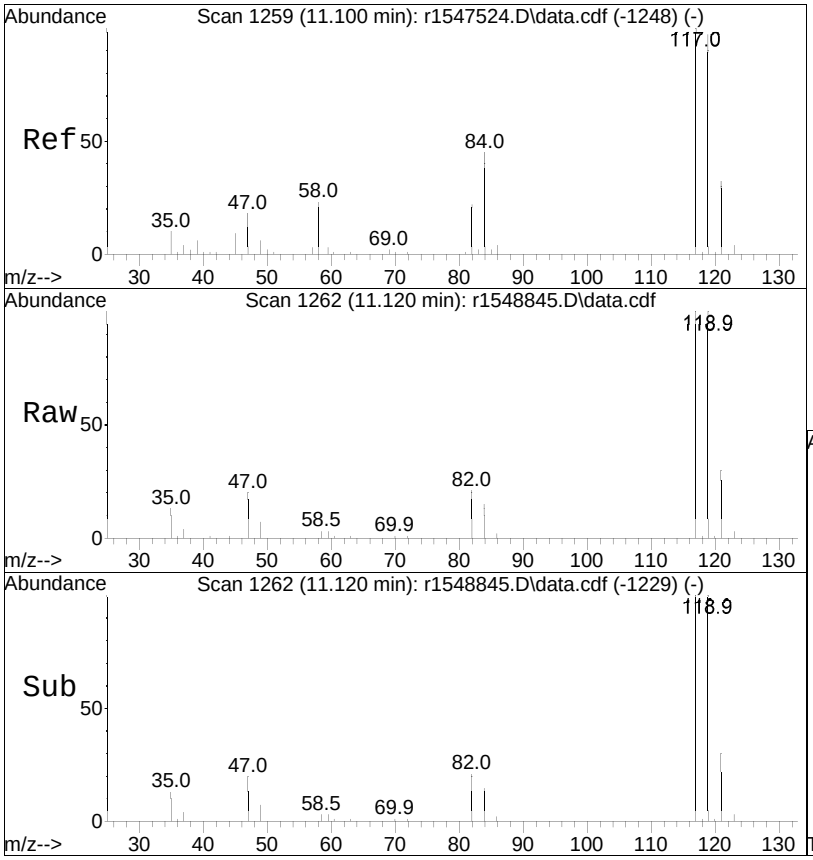


#50
benzene
Concen: 10.23 ppbV
RT: 10.947 min Scan# 1236
Delta R.T. 0.020 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 78 Resp: 657806

Ion	Ratio	Lower	Upper
78	100		
52	17.2	13.0	19.4

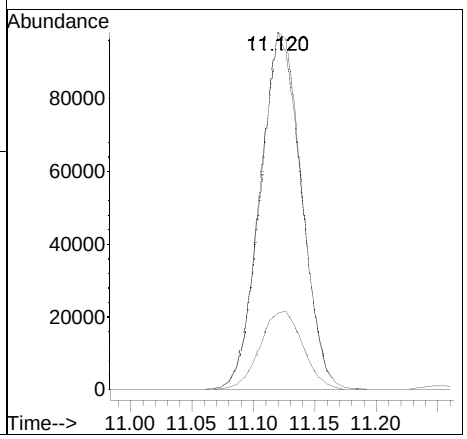


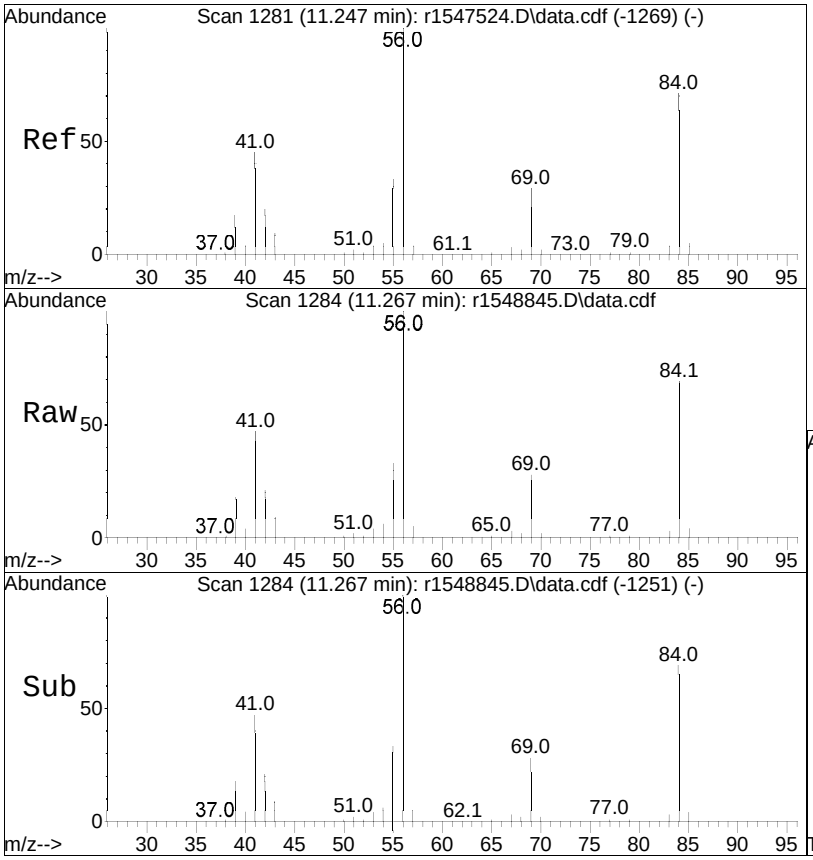


#52
carbon tetrachloride
Concen: 9.93 ppbV
RT: 11.120 min Scan# 1262
Delta R.T. 0.020 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion:117 Resp: 230026

Ion	Ratio	Lower	Upper
117	100		
119	100.1	77.4	116.2
82	21.5	17.9	26.9

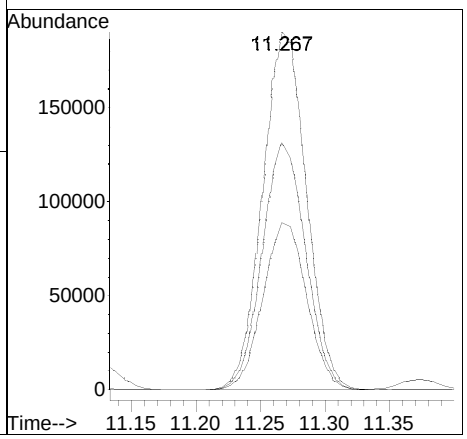


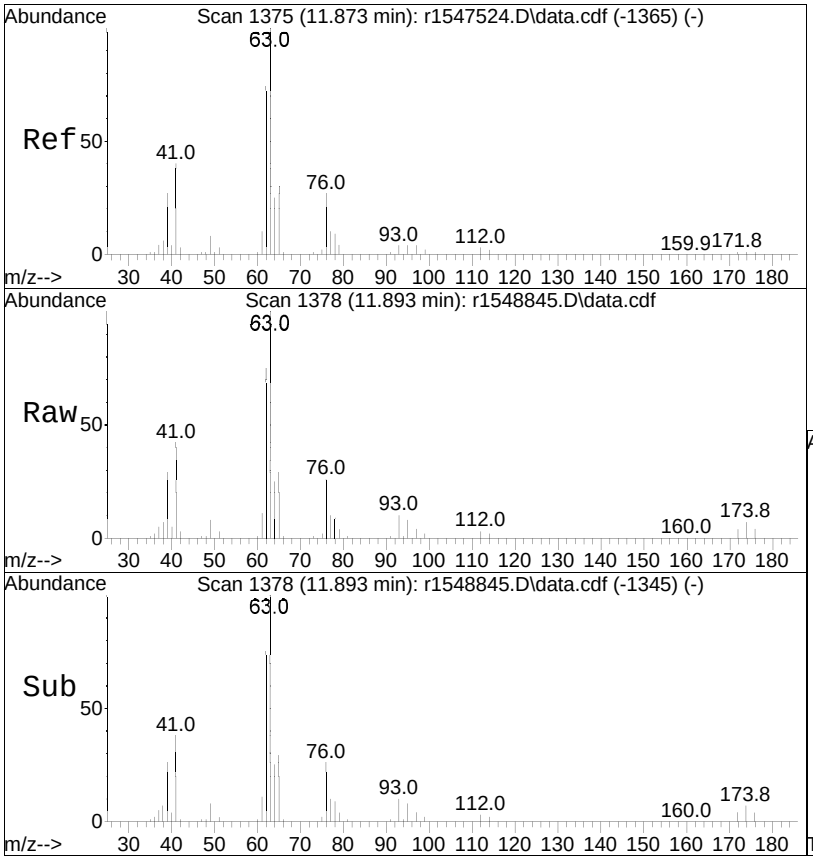


#53
cyclohexane
Concen: 11.44 ppbV
RT: 11.267 min Scan# 1284
Delta R.T. 0.020 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 56 Resp: 447058

Ion	Ratio	Lower	Upper
56	100		
84	69.3	57.2	85.8
41	46.7	35.9	53.9

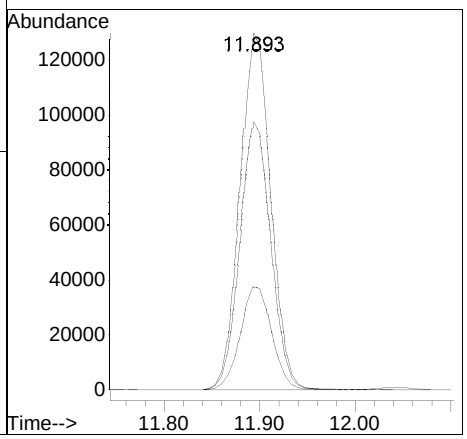


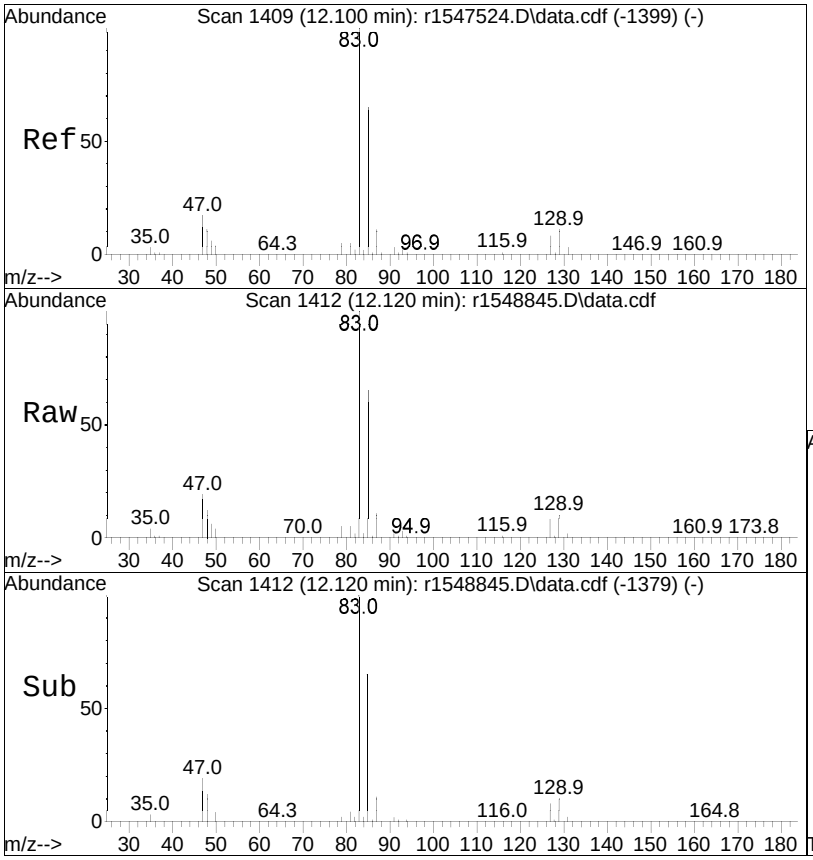


#56
1,2-dichloropropane
Concen: 10.85 ppbV
RT: 11.893 min Scan# 1378
Delta R.T. 0.020 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 63 Resp: 290157

Ion	Ratio	Lower	Upper
63	100		
62	75.2	59.5	89.3
39	29.1	21.4	32.2

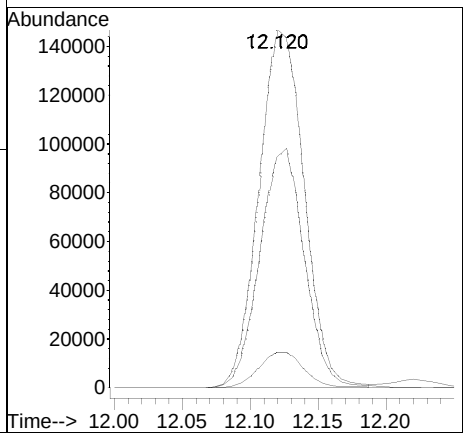


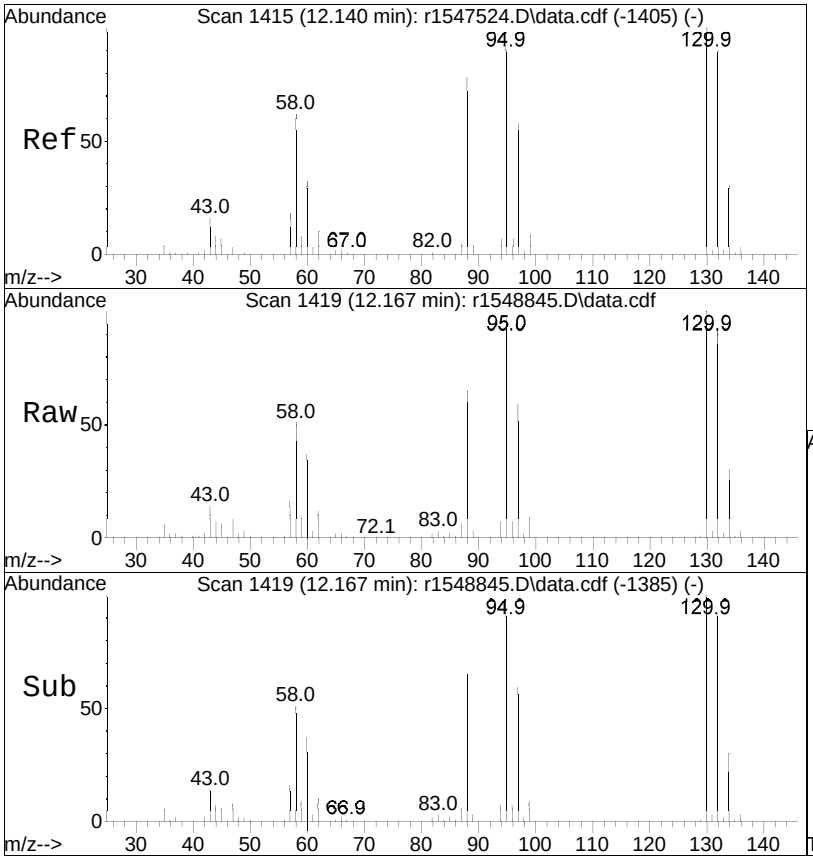


#57
bromodichloromethane
Concen: 11.05 ppbV
RT: 12.120 min Scan# 1412
Delta R.T. 0.020 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 83 Resp: 338440

Ion	Ratio	Lower	Upper
83	100		
85	64.6	52.1	78.1
129	10.0	8.5	12.7

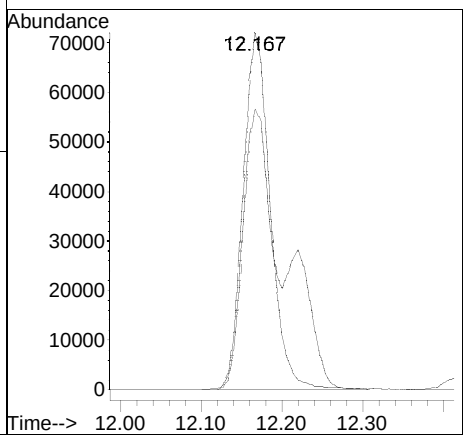


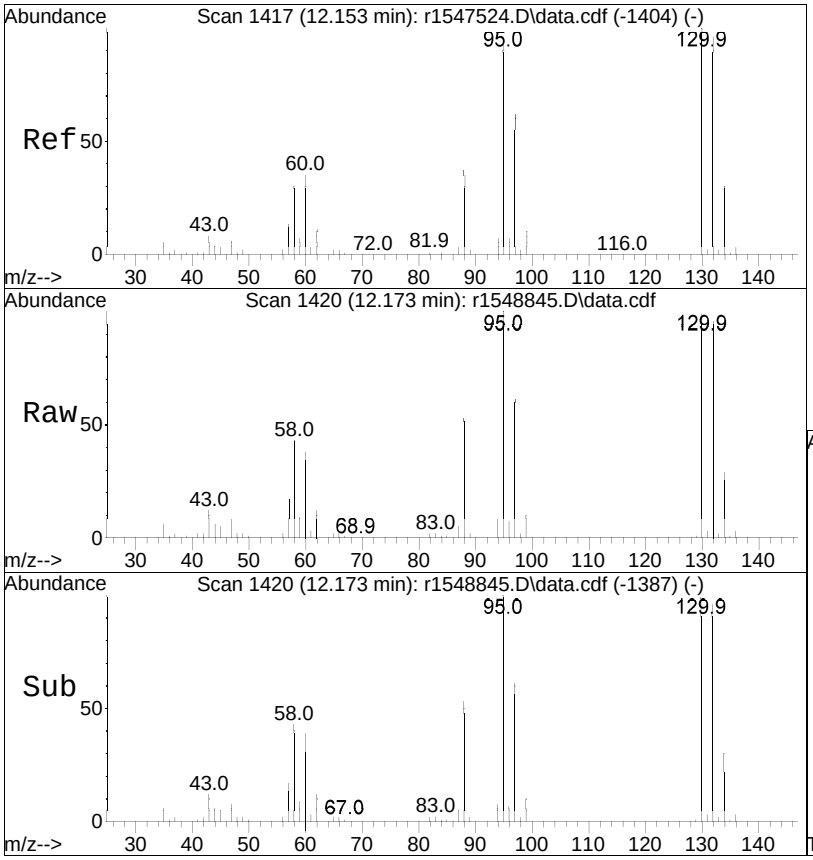


#58
1,4-dioxane
Concen: 11.38 ppbV
RT: 12.167 min Scan# 1419
Delta R.T. 0.027 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 88 Resp: 167826

Ion	Ratio	Lower	Upper
88	100		
58	78.6	63.4	95.0

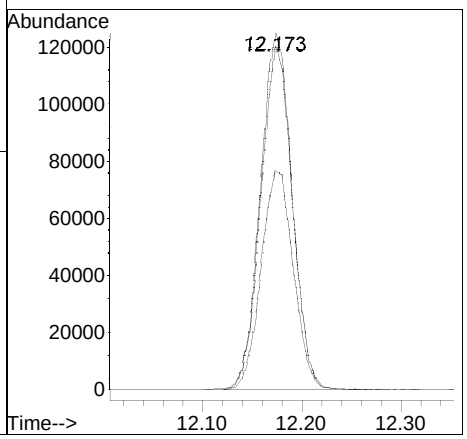


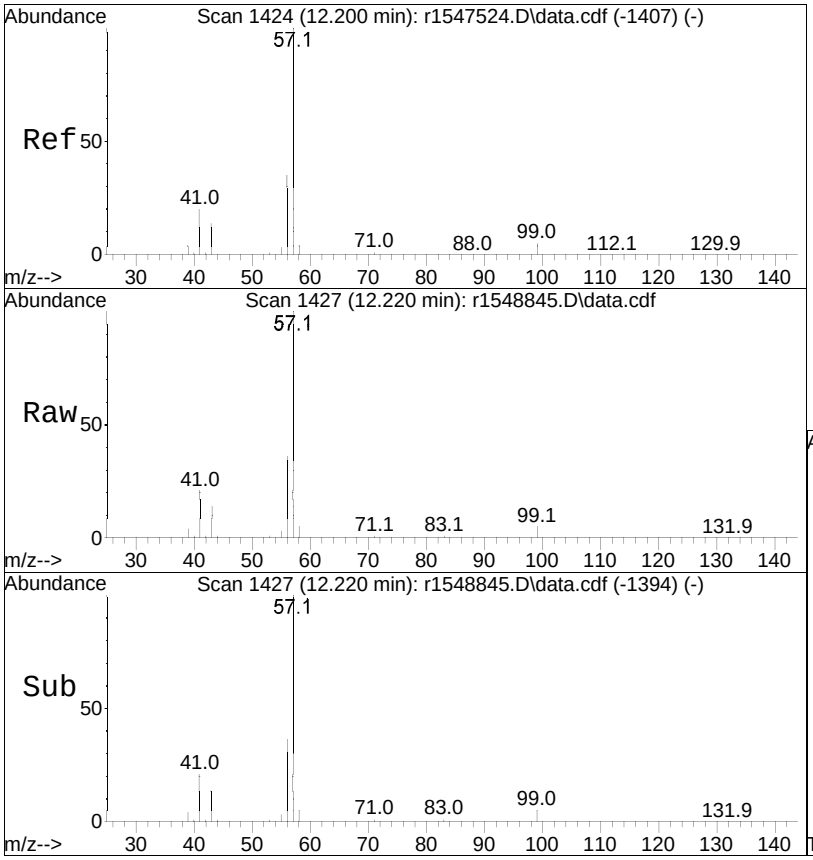


#59
trichloroethene
Concen: 10.04 ppbV
RT: 12.173 min Scan# 1420
Delta R.T. 0.020 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion:130 Resp: 276090

Ion	Ratio	Lower	Upper
130	100		
132	96.5	76.8	115.2
97	61.5	49.3	73.9

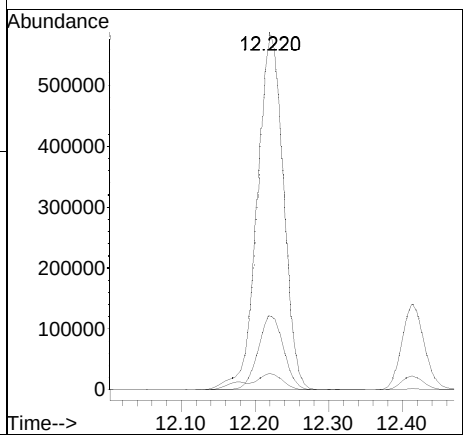


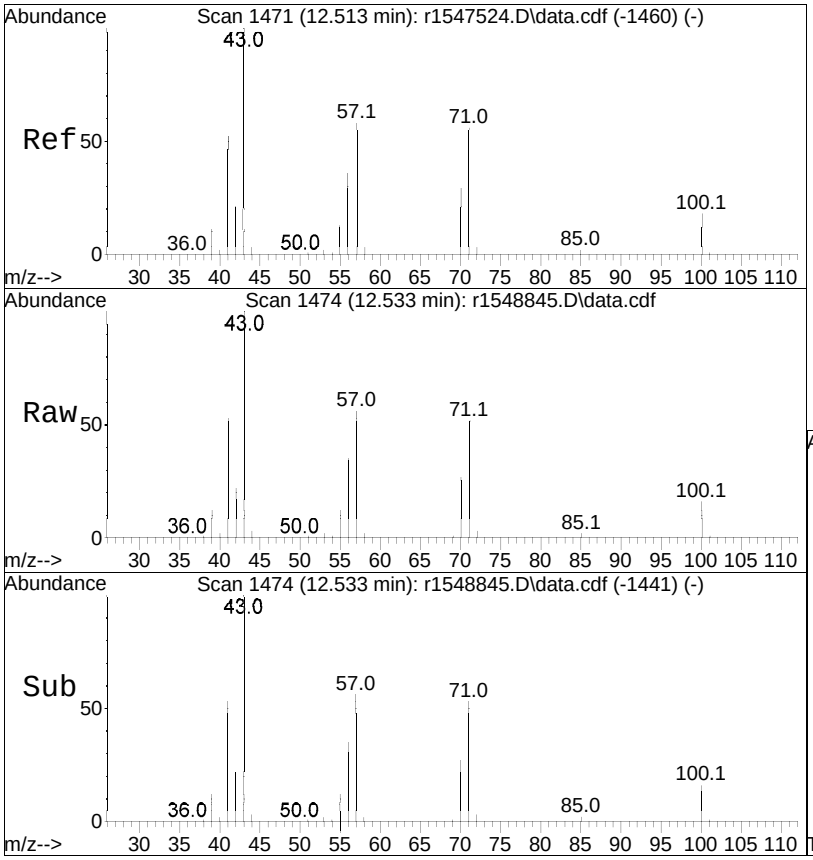


#60
2,2,4-trimethylpentane
Concen: 11.78 ppbV
RT: 12.220 min Scan# 1427
Delta R.T. 0.020 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 57 Resp: 1434165

Ion	Ratio	Lower	Upper
57	100		
99	4.6	4.0	6.0
41	20.9	16.1	24.1

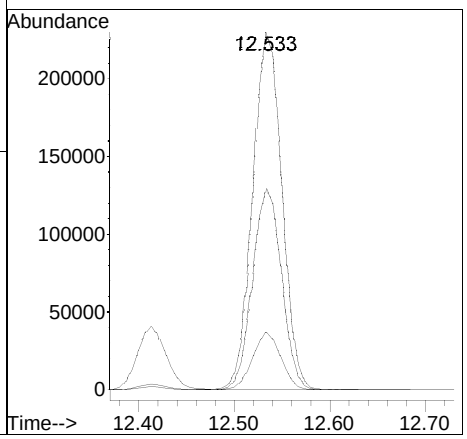


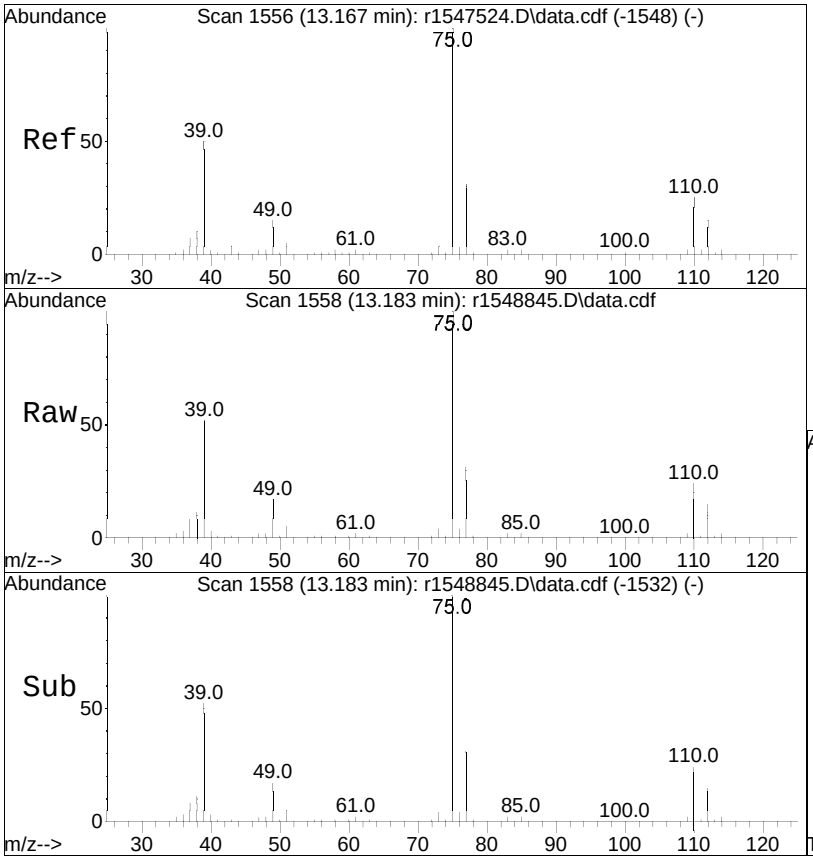


#62
heptane
Concen: 11.92 ppbV
RT: 12.533 min Scan# 1474
Delta R.T. 0.020 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 43 Resp: 483990

Ion	Ratio	Lower	Upper
43	100		
57	56.4	46.6	70.0
100	16.1	14.6	22.0

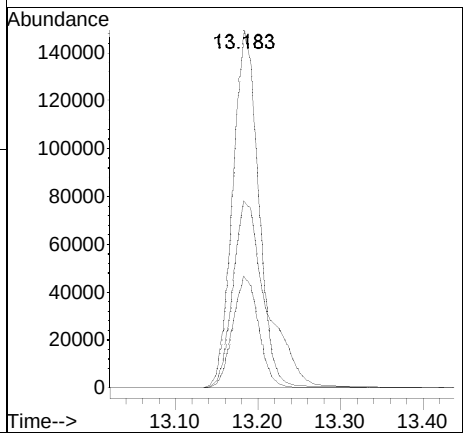


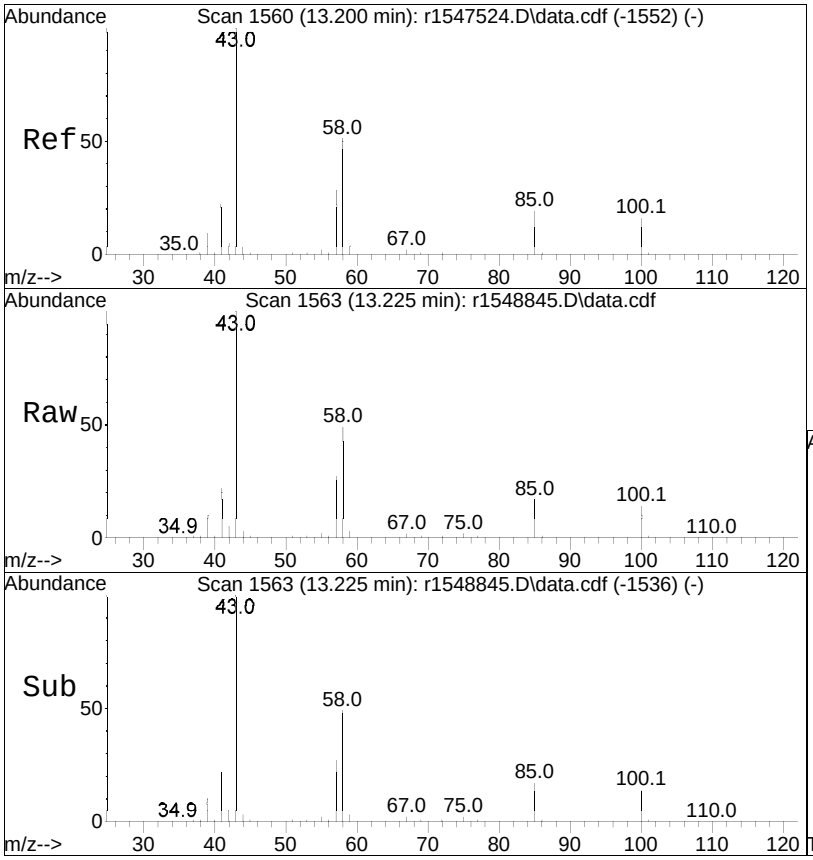


#63
cis-1,3-dichloropropene
Concen: 10.88 ppbV
RT: 13.183 min Scan# 1558
Delta R.T. 0.017 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 75 Resp: 323235

Ion	Ratio	Lower	Upper
75	100		
39	52.4	40.2	60.4
77	31.3	25.0	37.6

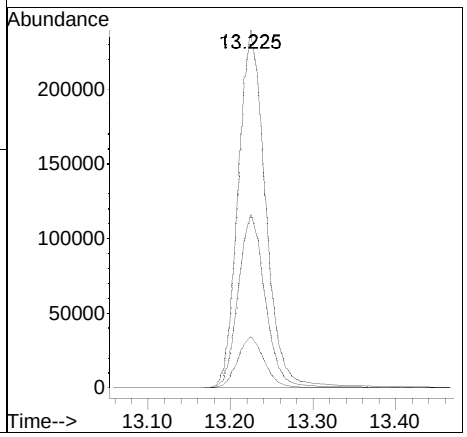


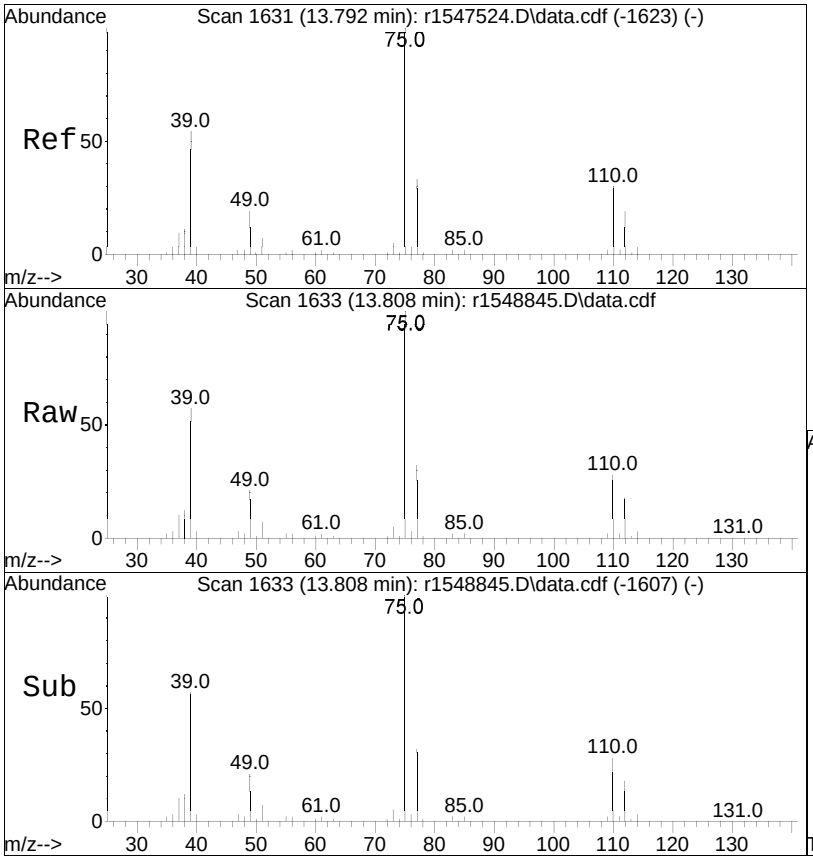


#64
4-methyl-2-pentanone
Concen: 11.88 ppbV
RT: 13.225 min Scan# 1563
Delta R.T. 0.025 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 43 Resp: 549086

Ion	Ratio	Lower	Upper
43	100		
58	48.6	41.0	61.4
100	14.4	13.0	19.6

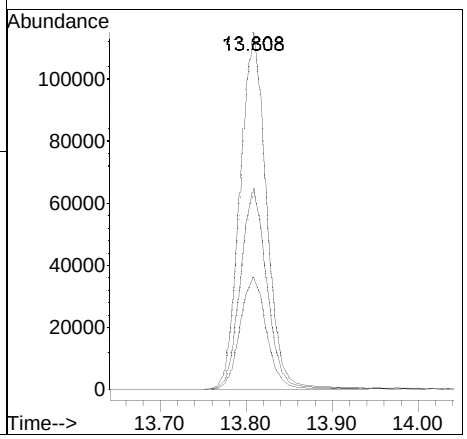


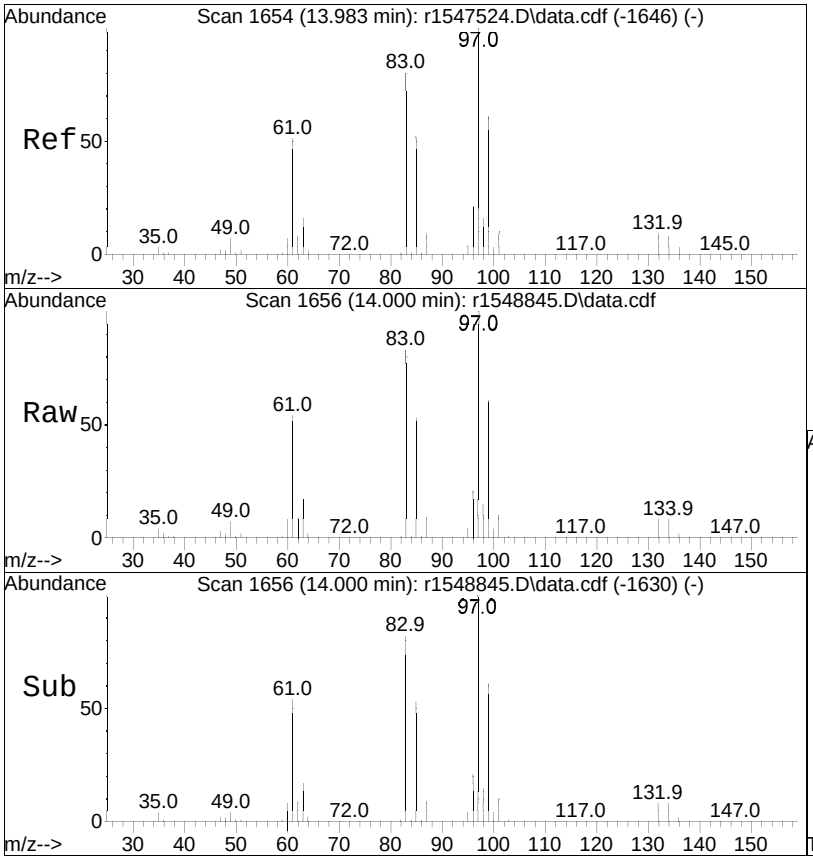


#65
trans-1,3-dichloropropene
Concen: 10.73 ppbV
RT: 13.808 min Scan# 1633
Delta R.T. 0.017 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 75 Resp: 243673

Ion	Ratio	Lower	Upper
75	100		
77	31.5	26.3	39.5
39	56.6	43.0	64.4

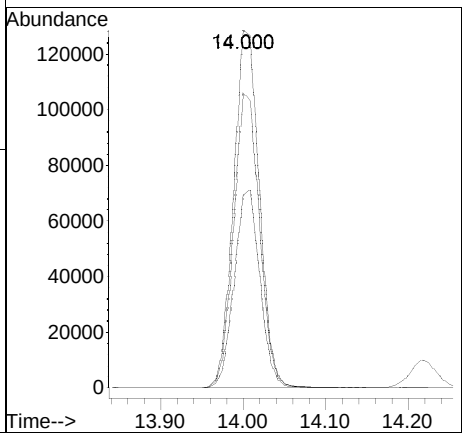


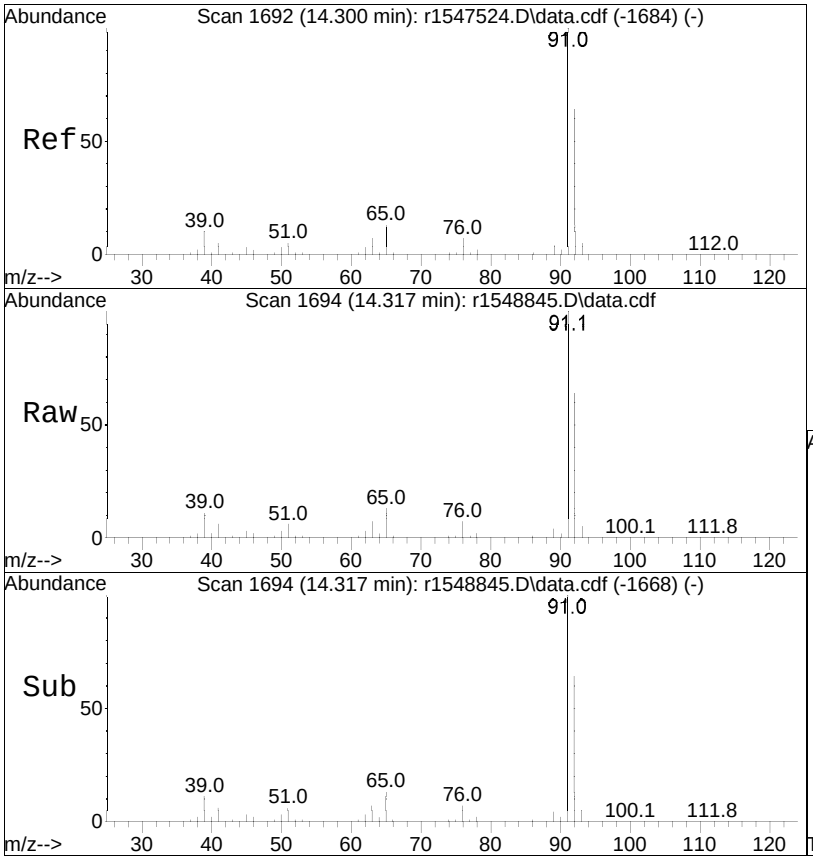


#66
1,1,2-trichloroethane
Concen: 10.44 ppbV
RT: 14.000 min Scan# 1656
Delta R.T. 0.017 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 97 Resp: 277591

Ion	Ratio	Lower	Upper
97	100		
83	82.6	63.8	95.6
61	54.0	41.1	61.7

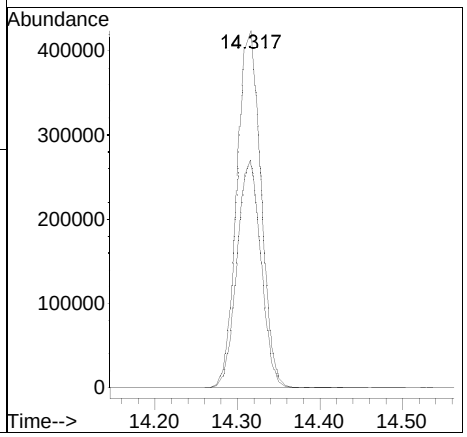


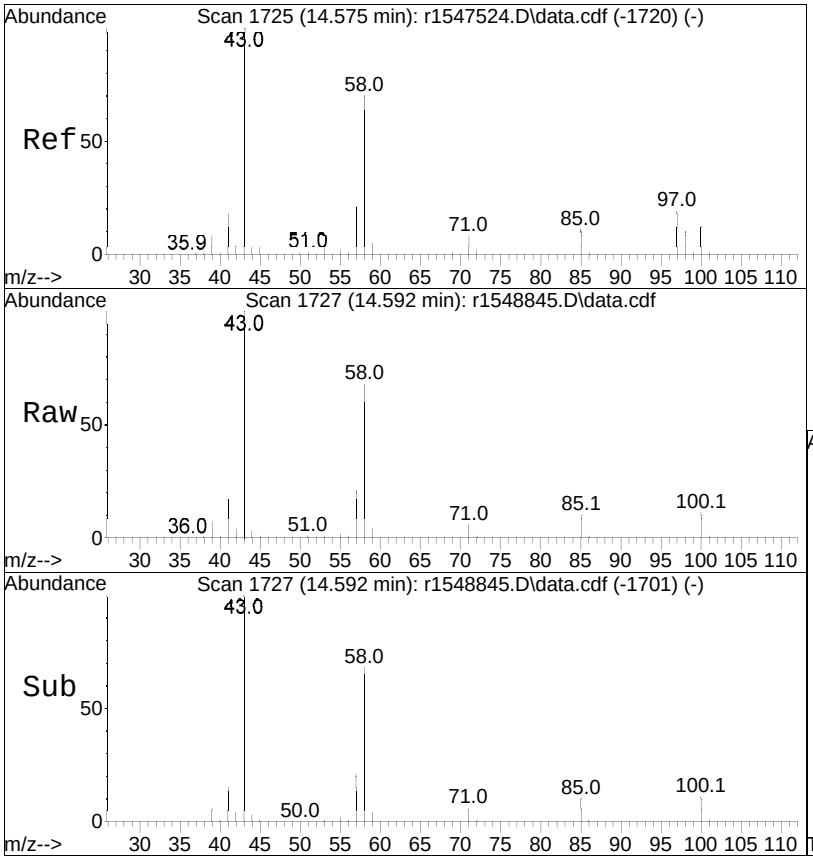


#68
toluene
Concen: 9.30 ppbV
RT: 14.317 min Scan# 1694
Delta R.T. 0.017 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 91 Resp: 858403

Ion	Ratio	Lower	Upper
91	100		
92	63.9	51.6	77.4

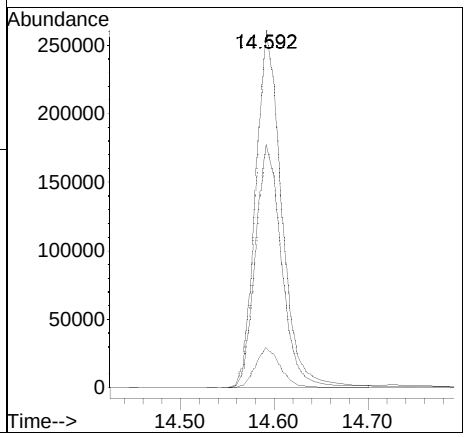


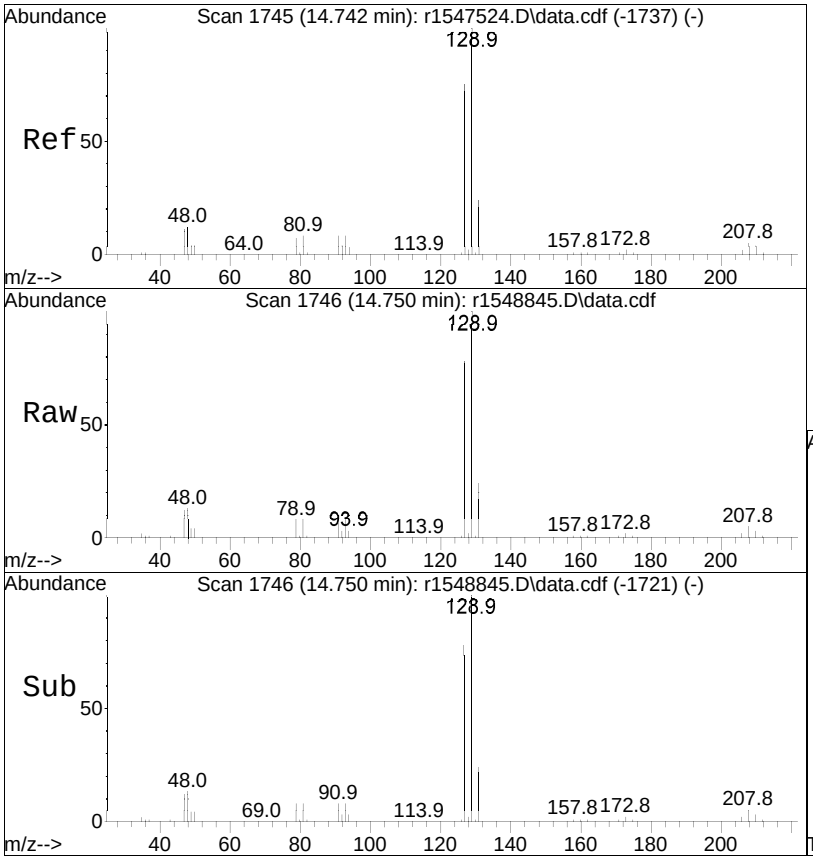


#72
2-hexanone
Concen: 11.21 ppbV
RT: 14.592 min Scan# 1727
Delta R.T. 0.017 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 43 Resp: 499540

Ion	Ratio	Lower	Upper
43	100		
58	68.1	56.3	84.5
100	11.3	11.4	17.0#

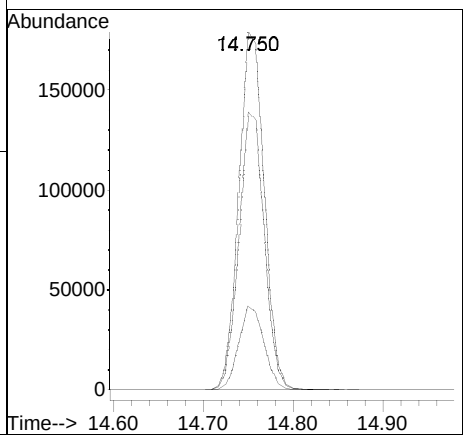


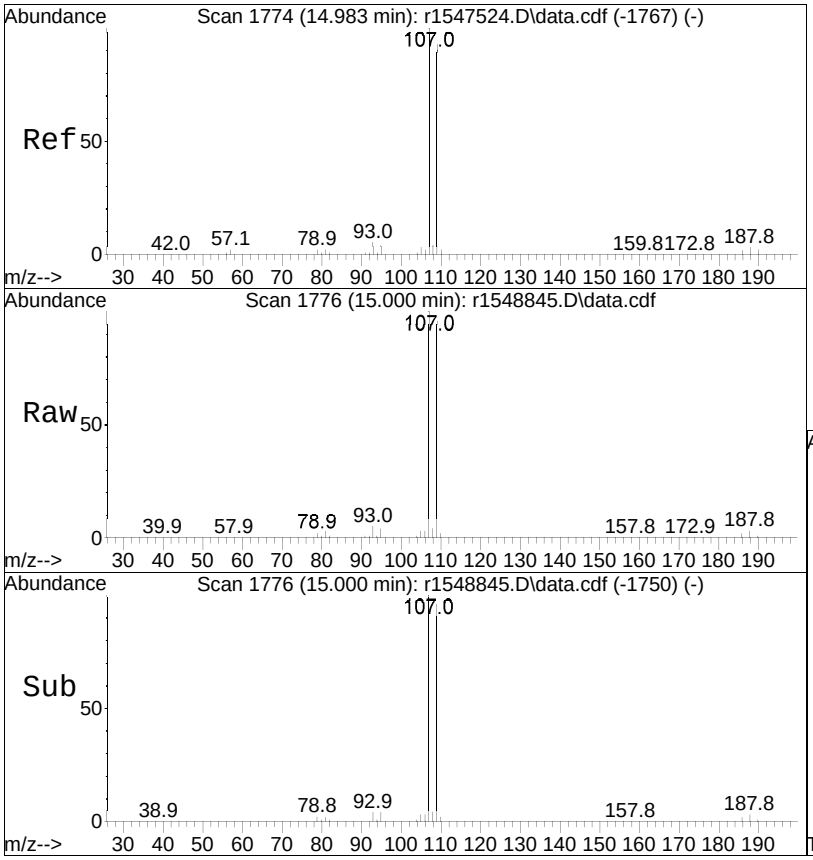


#74
dibromochloromethane
Concen: 9.77 ppbV
RT: 14.750 min Scan# 1746
Delta R.T. 0.008 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion:129 Resp: 349441

Ion	Ratio	Lower	Upper
129	100		
127	77.8	60.2	90.2
131	23.5	19.5	29.3

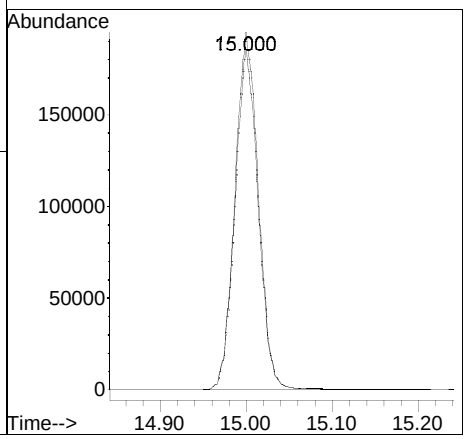


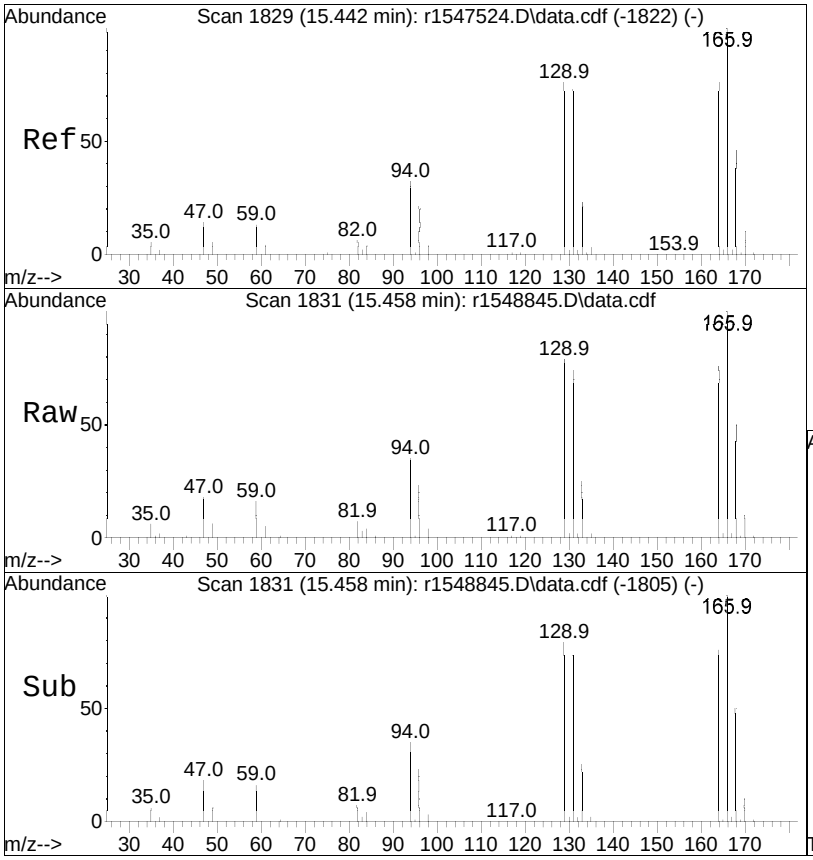


#75
1,2-dibromoethane
Concen: 8.95 ppbV
RT: 15.000 min Scan# 1776
Delta R.T. 0.017 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion:107 Resp: 364409

Ion	Ratio	Lower	Upper
107	100		
109	96.2	74.6	112.0

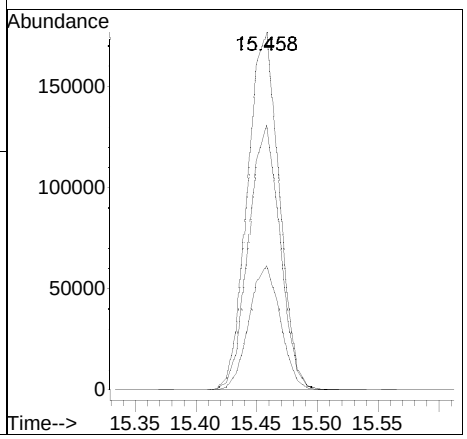


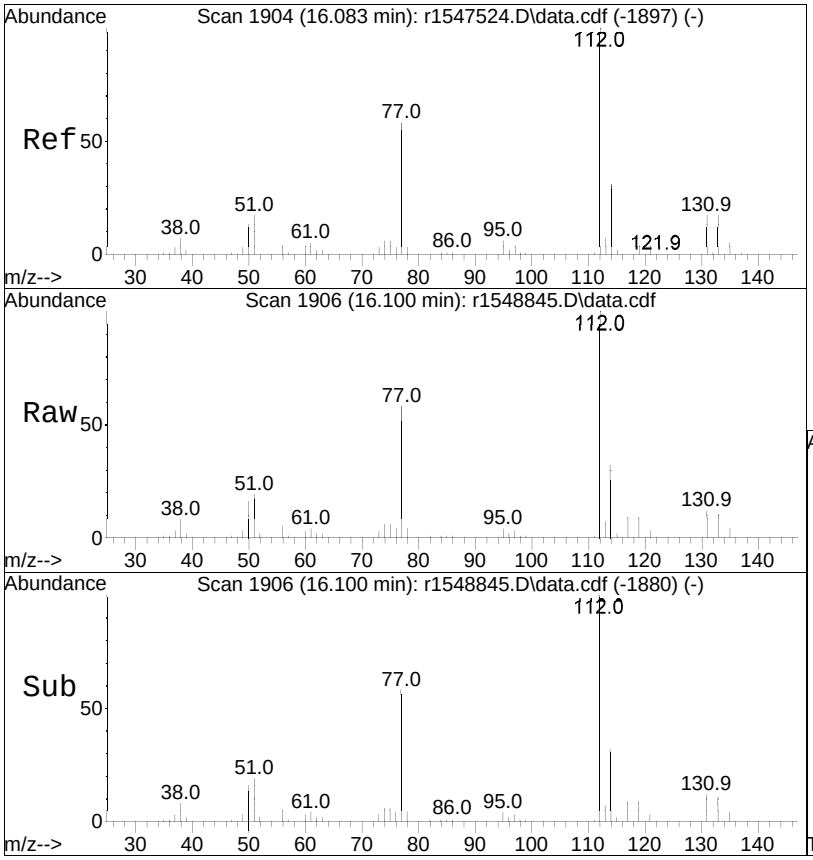


#78
tetrachloroethene
Concen: 8.81 ppbV
RT: 15.458 min Scan# 1831
Delta R.T. 0.017 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion:166 Resp: 320022

Ion	Ratio	Lower	Upper
166	100		
131	74.2	58.3	87.5
94	34.8	25.8	38.6

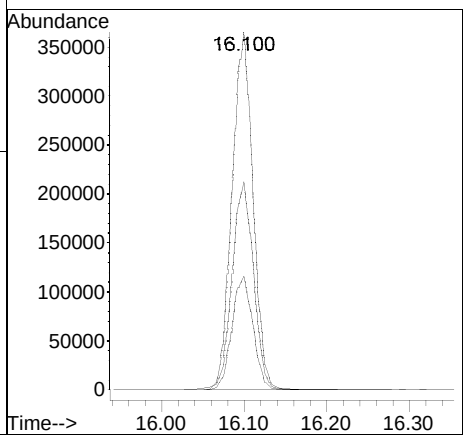


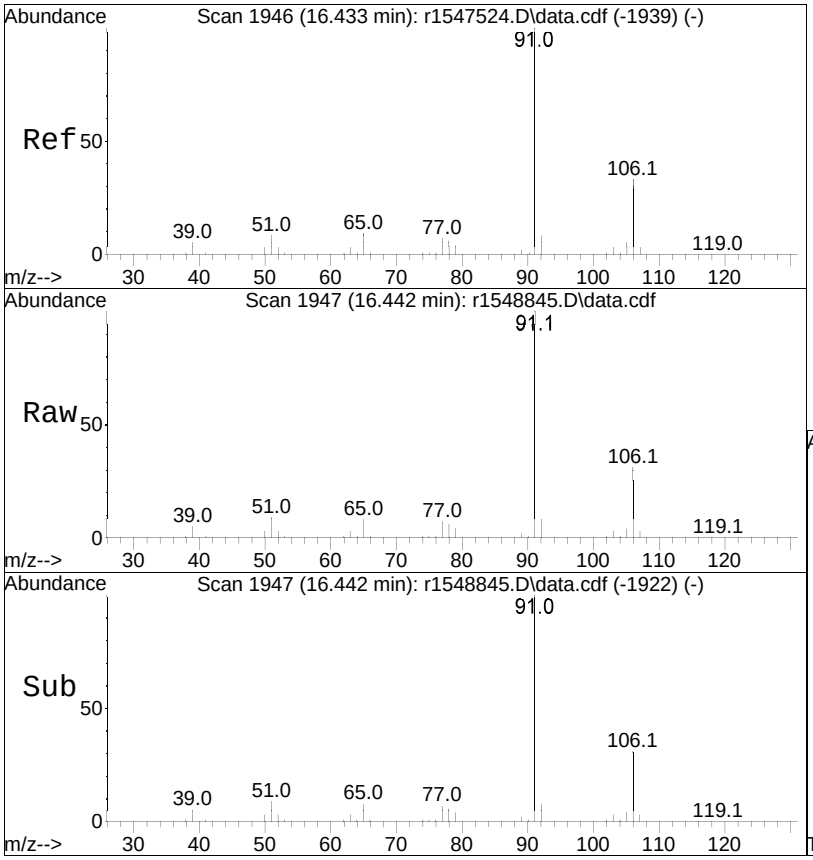


#80
chlorobenzene
Concen: 9.32 ppbV
RT: 16.100 min Scan# 1906
Delta R.T. 0.017 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion:112 Resp: 636192

Ion	Ratio	Lower	Upper
112	100		
114	31.9	25.0	37.6
77	58.3	46.3	69.5

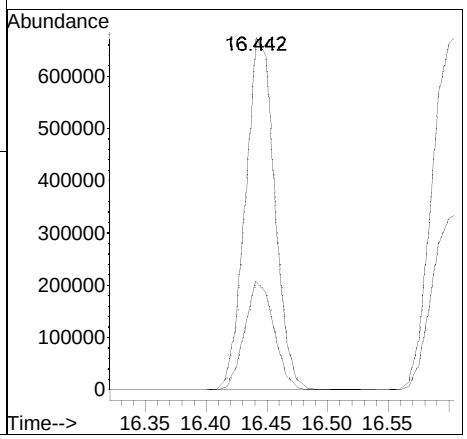


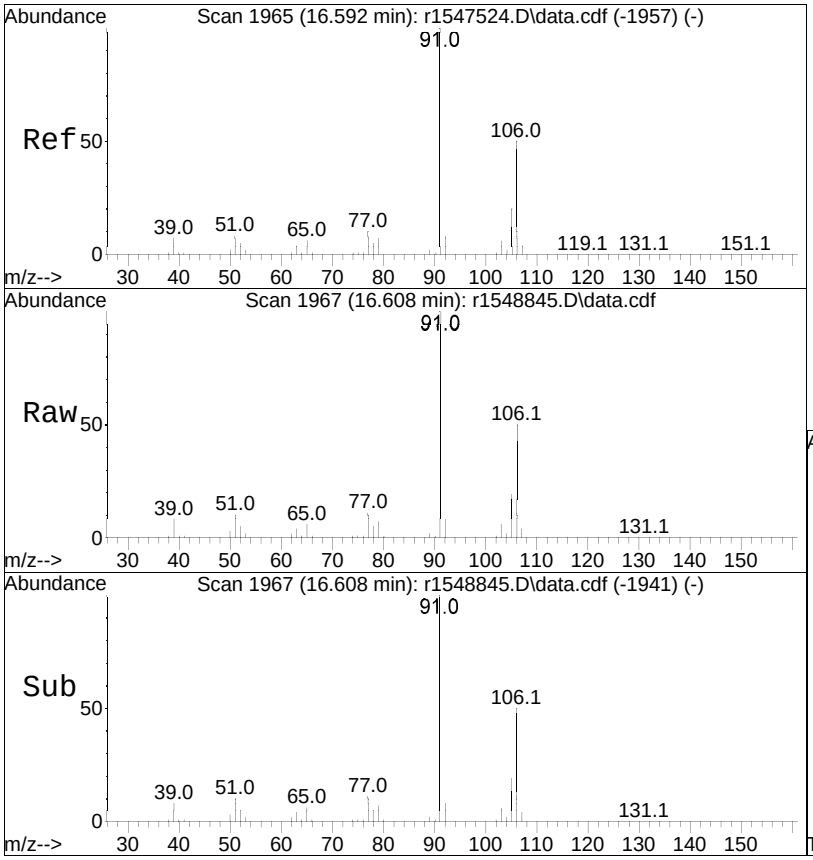


#81
ethylbenzene
Concen: 9.61 ppbV
RT: 16.442 min Scan# 1947
Delta R.T. 0.008 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 91 Resp: 1136632

Ion	Ratio	Lower	Upper
91	100		
106	30.9	26.1	39.1

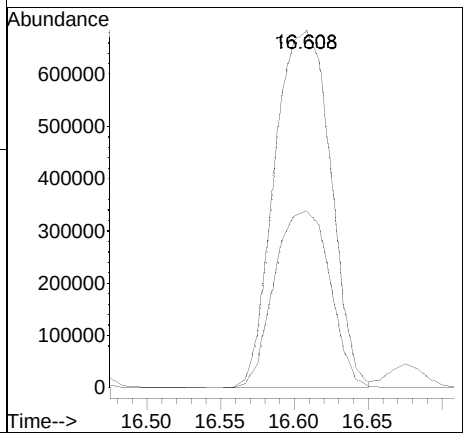


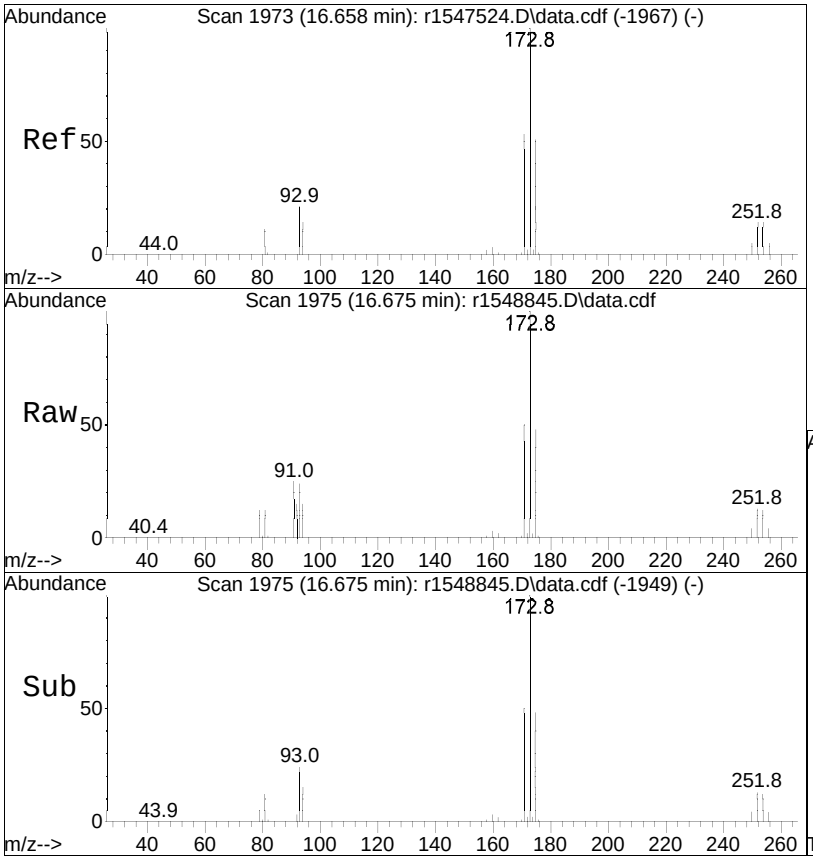


#83
m+p-xylene
Concen: 19.33 ppbV
RT: 16.608 min Scan# 1967
Delta R.T. 0.017 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 91 Resp: 1790547

Ion	Ratio	Lower	Upper
91	100		
106	49.5	40.1	60.1

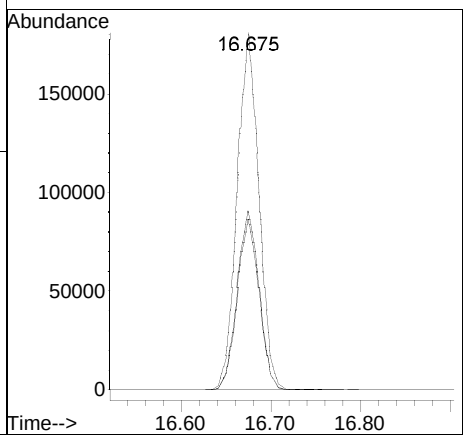


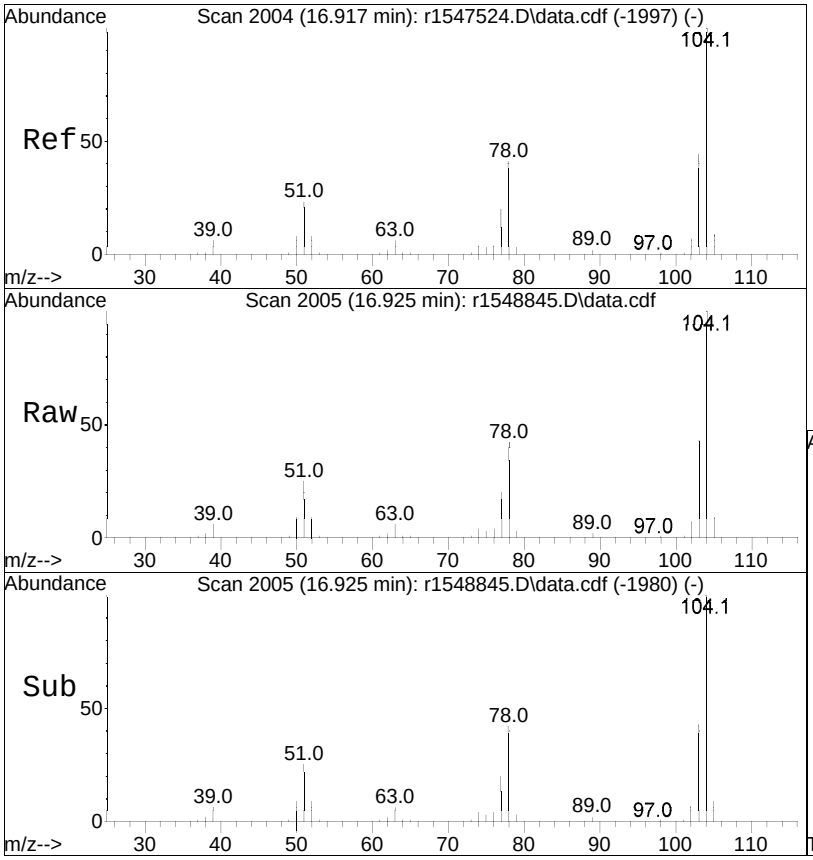


#84
bromoform
Concen: 9.56 ppbV
RT: 16.675 min Scan# 1975
Delta R.T. 0.017 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion:173 Resp: 302888

Ion	Ratio	Lower	Upper
173	100		
175	48.0	40.6	60.8
171	50.2	42.4	63.6

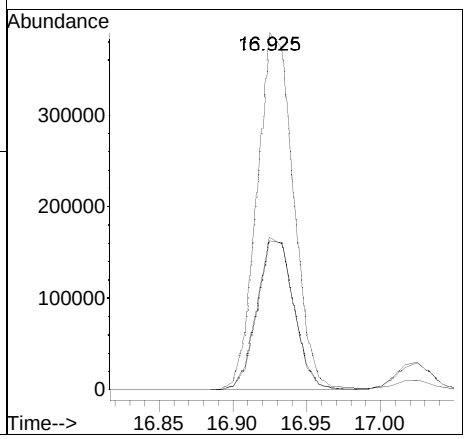


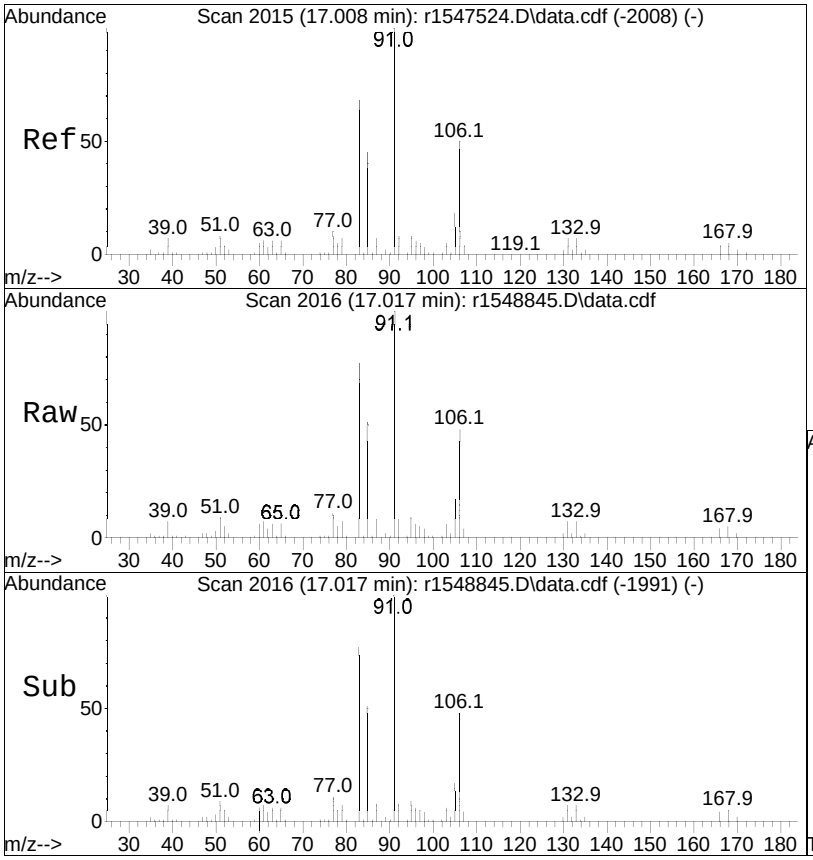


#85
styrene
Concen: 9.13 ppbV
RT: 16.925 min Scan# 2005
Delta R.T. 0.008 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion:104 Resp: 665605

Ion	Ratio	Lower	Upper
104	100		
103	42.9	35.2	52.8
78	41.9	32.6	48.8

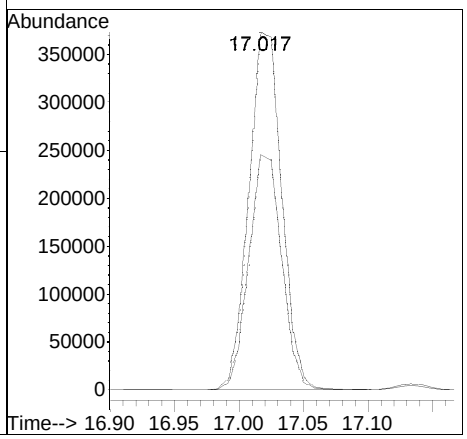


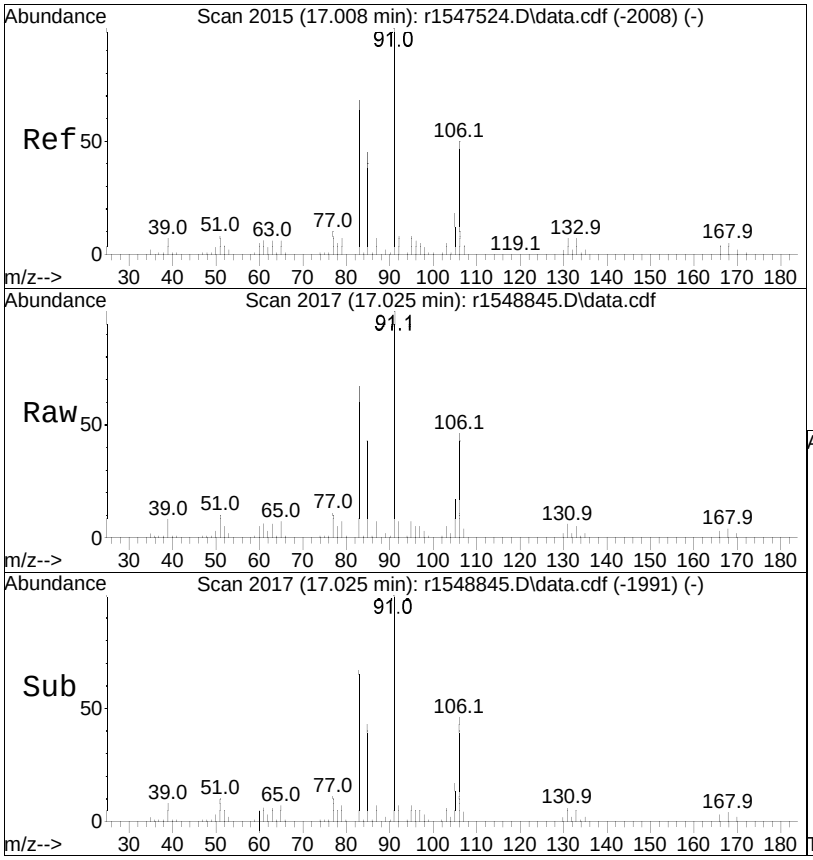


#86
1,1,2,2-tetrachloroethane
Concen: 10.36 ppbV
RT: 17.017 min Scan# 2016
Delta R.T. 0.008 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 83 Resp: 657018

Ion	Ratio	Lower	Upper
83	100		
85	65.8	53.7	80.5

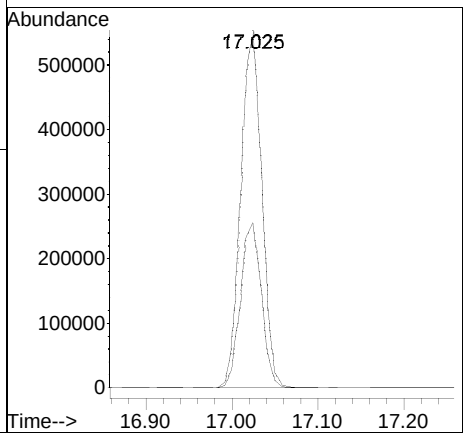


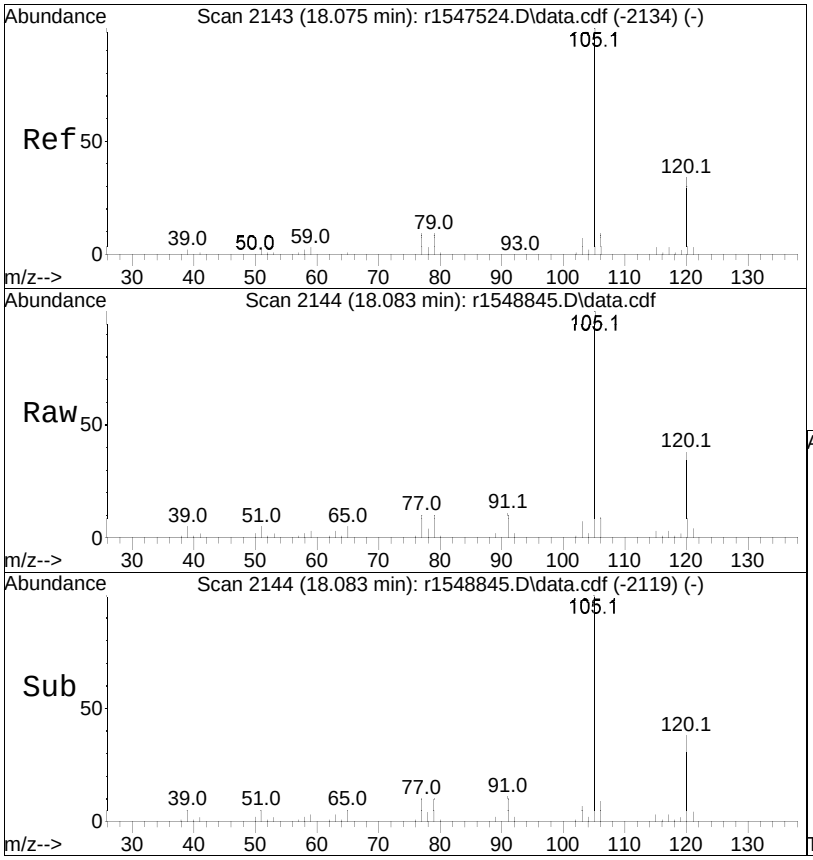


#87
o-xylene
Concen: 9.96 ppbV
RT: 17.025 min Scan# 2017
Delta R.T. 0.017 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 91 Resp: 921901

Ion	Ratio	Lower	Upper
91	100		
106	46.2	39.6	59.4

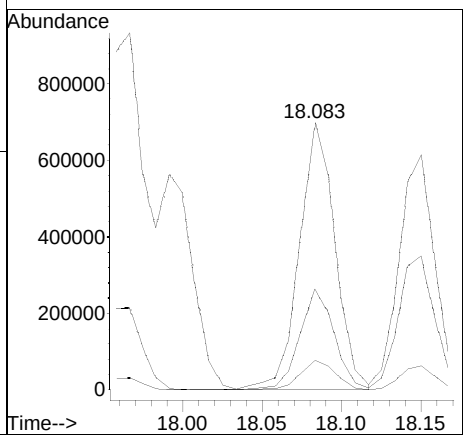


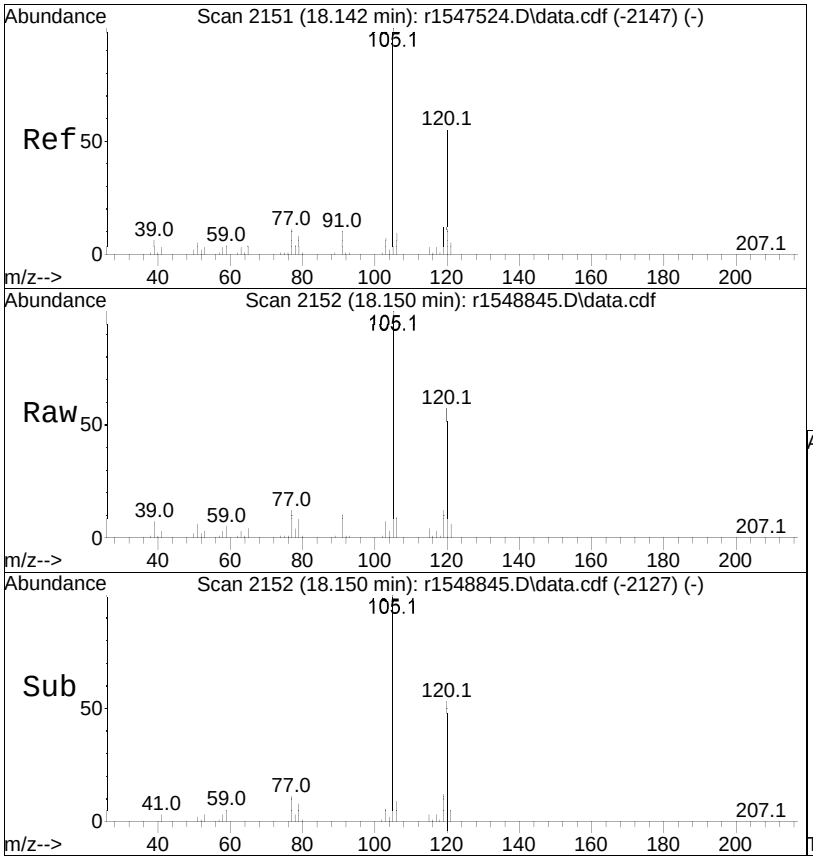


#96
4-ethyl toluene
Concen: 8.93 ppbV
RT: 18.083 min Scan# 2144
Delta R.T. 0.008 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion:105 Resp: 1090939

Ion	Ratio	Lower	Upper
105	100		
120	37.6	27.2	40.8
91	11.0	7.9	11.9

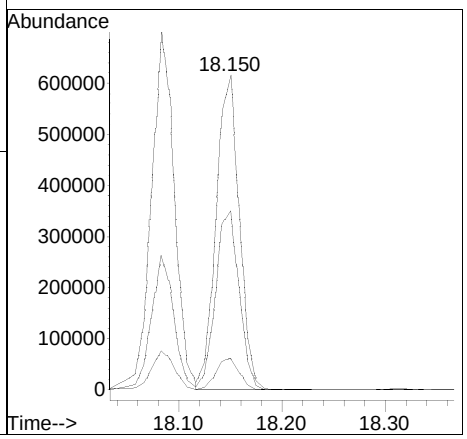


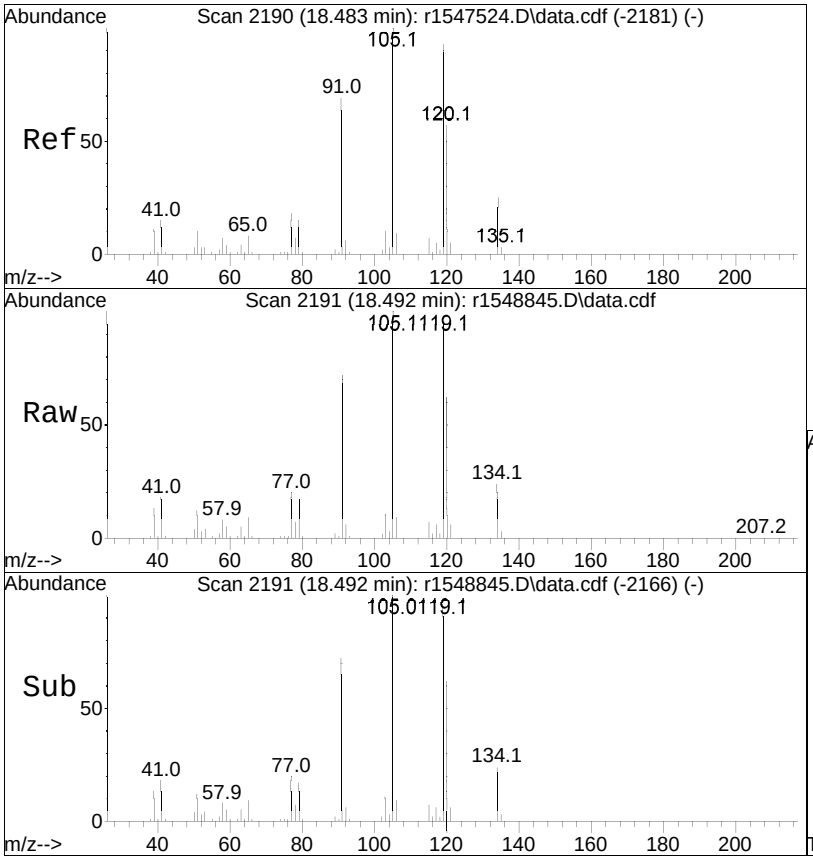


#97
1,3,5-trimethylbenzene
Concen: 9.04 ppbV
RT: 18.150 min Scan# 2152
Delta R.T. 0.008 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion:105 Resp: 1067412

Ion	Ratio	Lower	Upper
105	100		
120	56.9	44.2	66.2
91	10.2	8.0	12.0

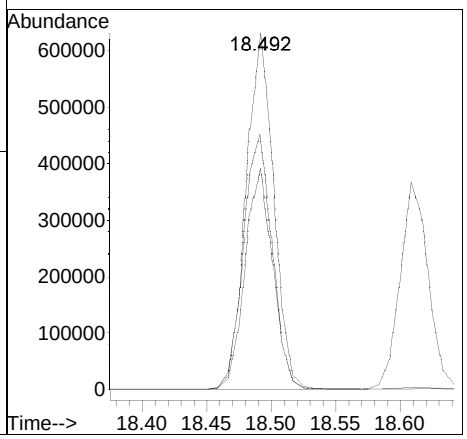


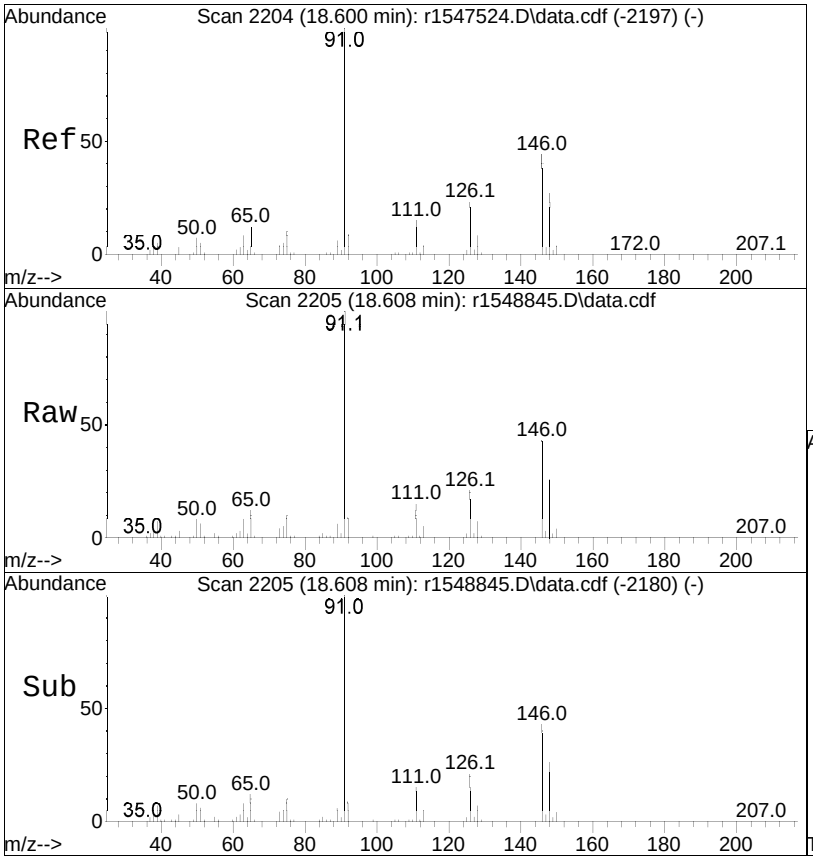


#99
1,2,4-trimethylbenzene
Concen: 9.38 ppbV
RT: 18.492 min Scan# 2191
Delta R.T. 0.008 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion:105 Resp: 943508

Ion	Ratio	Lower	Upper
105	100		
120	62.0	45.4	68.2
91	71.6	55.0	82.6

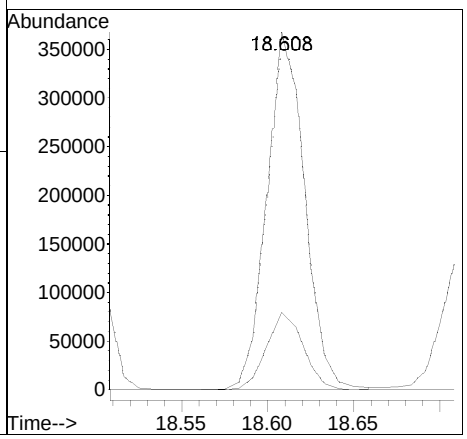


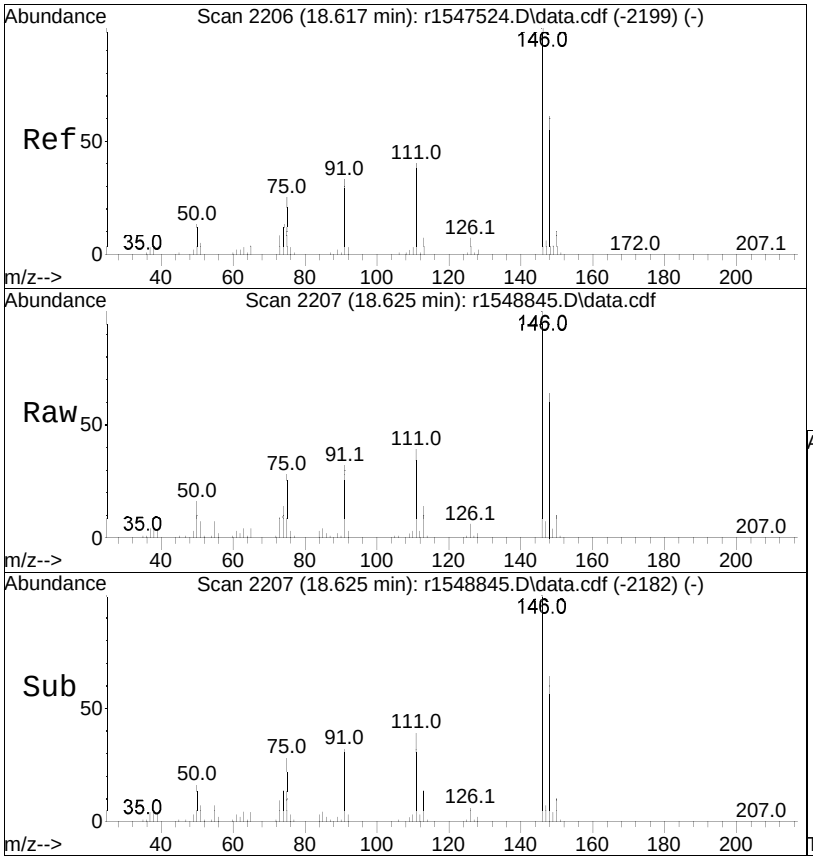


#101
Benzyl Chloride
Concen: 9.50 ppbV
RT: 18.608 min Scan# 2205
Delta R.T. 0.008 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion: 91 Resp: 555996

Ion	Ratio	Lower	Upper
91	100		
126	21.4	18.7	28.1

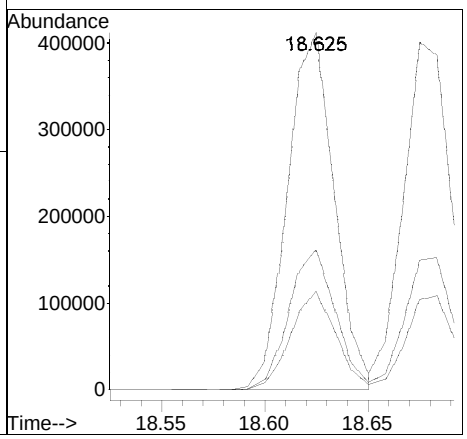


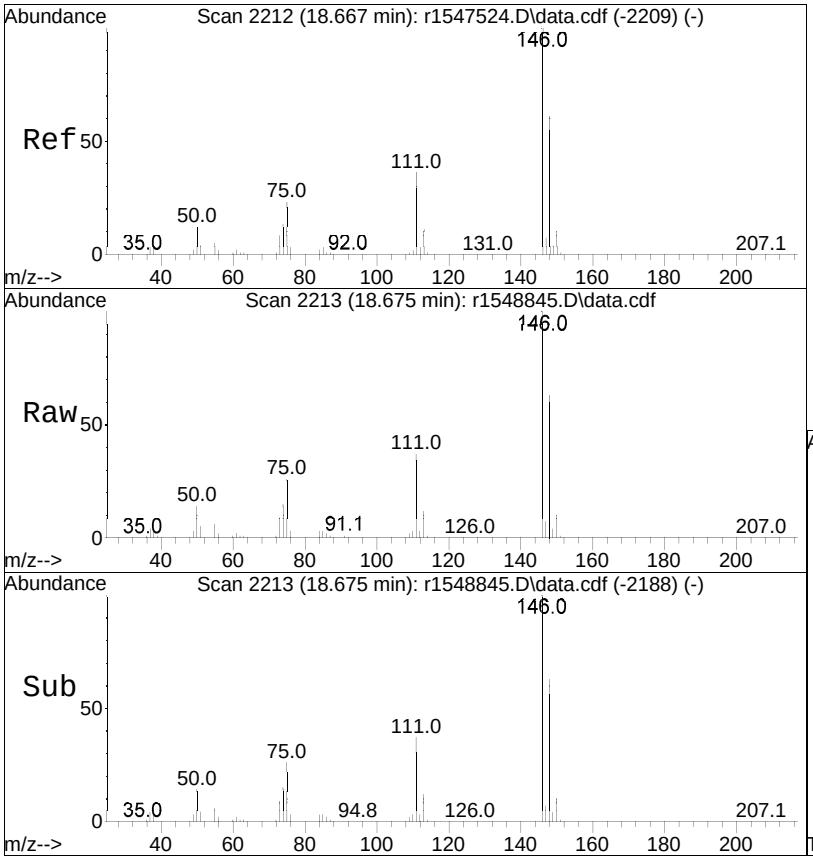


#102
1,3-dichlorobenzene
Concen: 9.21 ppbV
RT: 18.625 min Scan# 2207
Delta R.T. 0.008 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion:146 Resp: 650096

Ion	Ratio	Lower	Upper
146	100		
111	39.2	31.8	47.6
75	27.6	20.1	30.1

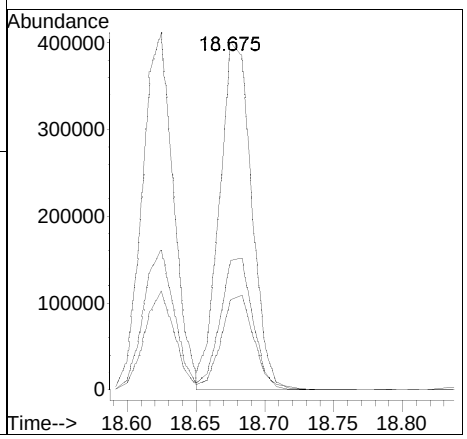


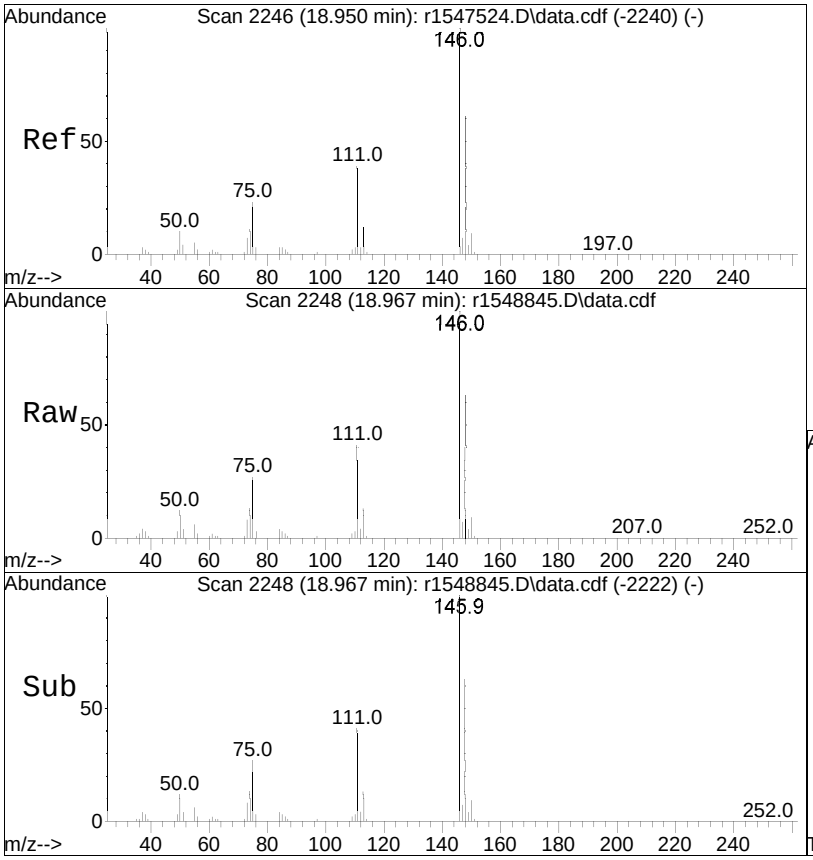


#103
1,4-dichlorobenzene
Concen: 9.10 ppbV
RT: 18.675 min Scan# 2213
Delta R.T. 0.008 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion:146 Resp: 649496

Ion	Ratio	Lower	Upper
146	100		
111	37.2	28.6	42.8
75	26.0	18.3	27.5

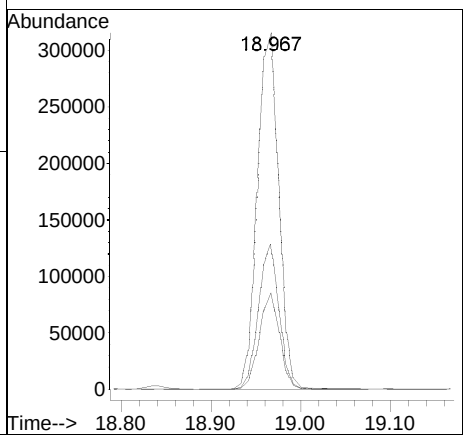


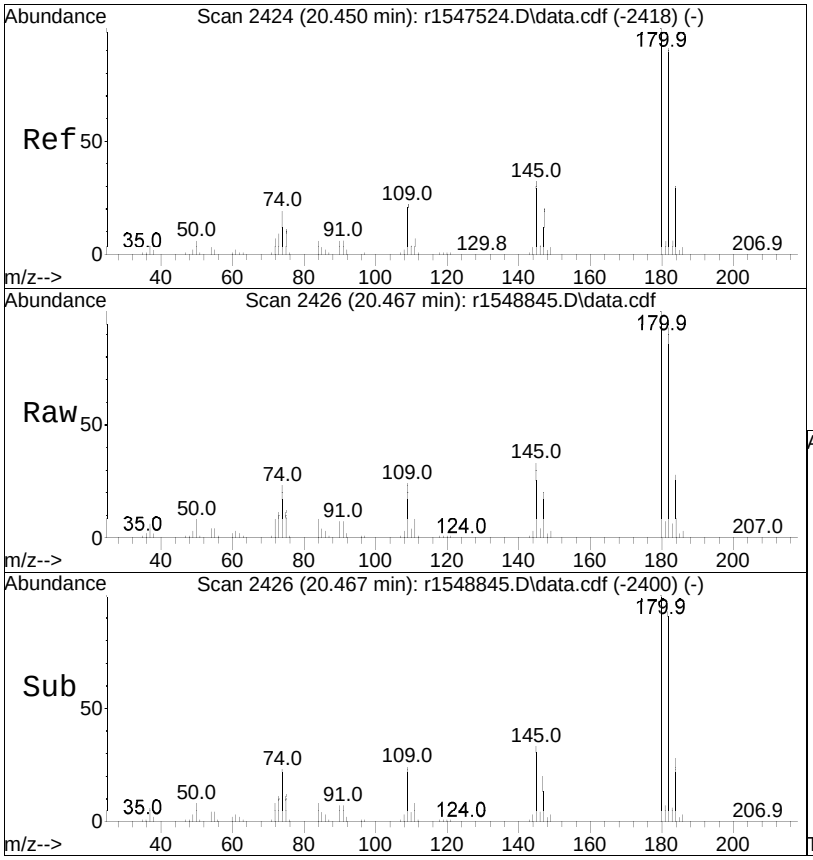


#107
1,2-dichlorobenzene
Concen: 7.76 ppbV
RT: 18.967 min Scan# 2248
Delta R.T. 0.017 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion:146 Resp: 522686

Ion	Ratio	Lower	Upper
146	100		
111	40.7	30.8	46.2
75	27.0	18.6	27.8

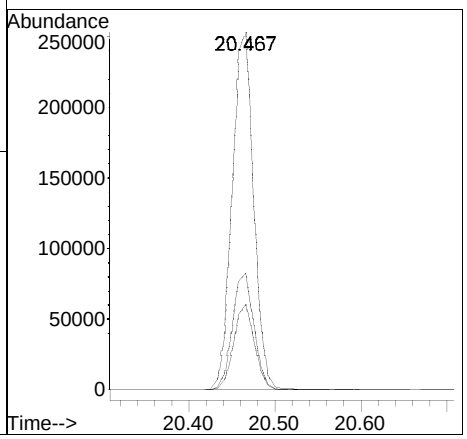


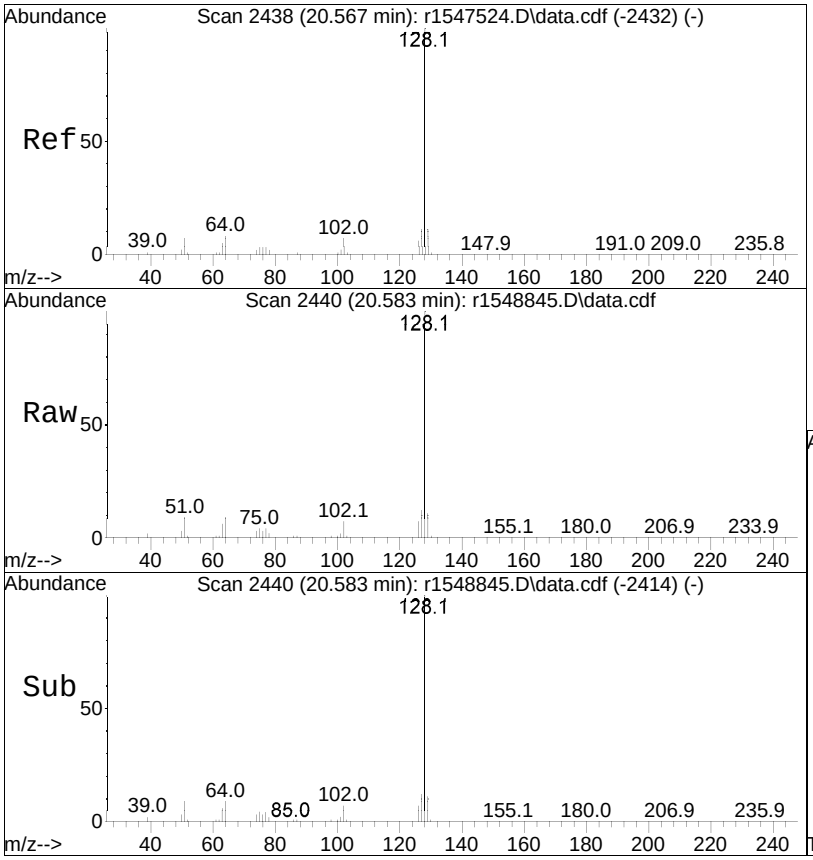


#115
1,2,4-trichlorobenzene
Concen: 8.83 ppbV
RT: 20.467 min Scan# 2426
Delta R.T. 0.017 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion:180 Resp: 437573

Ion	Ratio	Lower	Upper
180	100		
145	32.7	25.5	38.3
109	23.9	17.8	26.8

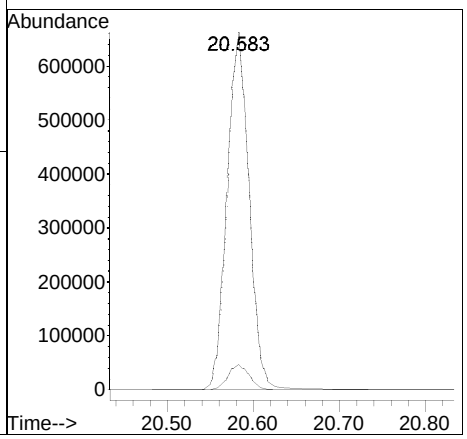


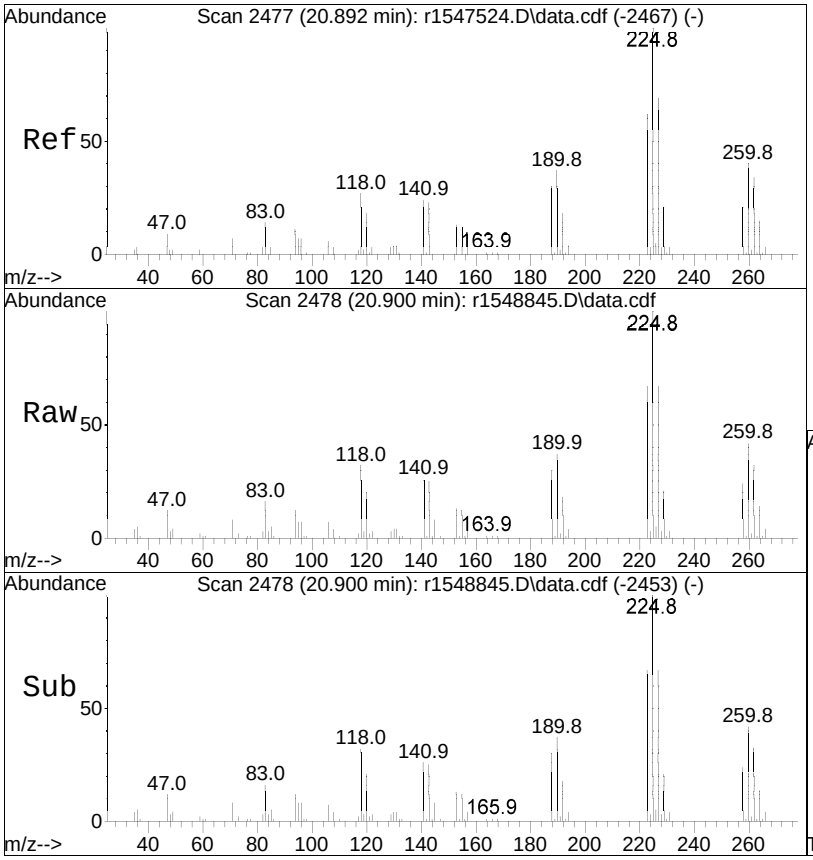


#116
naphthalene
Concen: 8.80 ppbV
RT: 20.583 min Scan# 2440
Delta R.T. 0.017 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion:128 Resp: 1164858

Ion	Ratio	Lower	Upper
128	100		
102	7.2	5.4	8.0

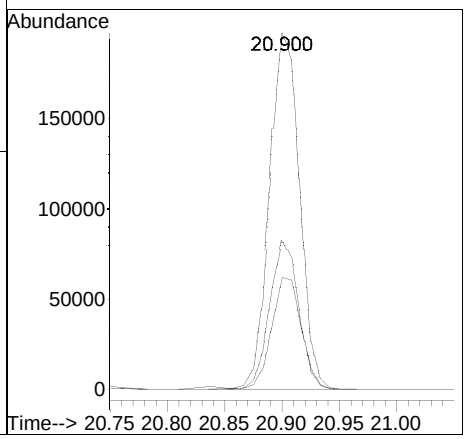




#119
hexachlorobutadiene
Concen: 8.35 ppbV
RT: 20.900 min Scan# 2478
Delta R.T. 0.008 min
Lab File: r1548845.D
Acq: 18 Jun 2024 2:34 PM

Tgt Ion:225 Resp: 358204

Ion	Ratio	Lower	Upper
225	100		
260	42.2	31.7	47.5
118	31.6	21.9	32.9



Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\06\0620T\
Data File : r1548901.D
Acq On : 20 Jun 2024 1:18 PM
Operator : AIRLAB15:TPH
Sample : WG1937252-3,3,250,250
Misc : WG1937252,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 20 15:34:29 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0620T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 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	103	0.02
2		chlorodifluoromethane	10.000	7.690	23.1	75	0.02
3		propylene	10.000	8.458	15.4	79	0.02
4		propane	10.000	11.114	-11.1	100	0.02
5		dichlorodifluoromethane	10.000	8.779	12.2	79	0.02
6	C	chloromethane	10.000	9.898	1.0	88	0.03
7		Freon-114	10.000	10.108	-1.1	87	0.03
8	C	methanol	50.000	47.649	4.7	89	0.03
9	C	vinyl chloride	10.000	9.275	7.2	78	0.02
10	C	1,3-butadiene	10.000	11.298	-13.0	96	0.02
11		butane	10.000	9.474	5.3	84	0.03
13	C	bromomethane	10.000	8.927	10.7	76	0.03
14	C	chloroethane	10.000	8.812	11.9	75	0.02
15		ethanol	50.000	64.693	-29.4	106	0.03
16		dichlorofluoromethane	10.000	7.470	25.3	70	0.03
17	C	vinyl bromide	10.000	7.440	25.6	62	0.03
18	C	acrolein	10.000	10.008	-0.1	84	0.03
19		acetone	50.000	51.450	-2.9	89	0.03
20	C	acetonitrile	10.000	8.967	10.3	79	0.03
21		trichlorofluoromethane	10.000	9.259	7.4	78	0.03
22		isopropyl alcohol	25.000	22.194	11.2	79	0.03
23	C	acrylonitrile	10.000	14.700	-47.0#	122	0.03
24		pentane	10.000	10.570	-5.7	96	0.03
25		ethyl ether	10.000	17.007	-70.1#	159	0.03
26	C	1,1-dichloroethene	10.000	9.284	7.2	78	0.03
27		tertiary butyl alcohol	10.000	8.340	16.6	71	0.04
28	C	methylene chloride	10.000	9.996	0.0	85	0.03
29	C	3-chloropropene	10.000	9.268	7.3	79	0.03
30	C	carbon disulfide	10.000	7.969	20.3	67	0.02
31		Freon 113	10.000	7.734	22.7	67	0.02
32		trans-1,2-dichloroethene	10.000	8.815	11.9	71	0.03
33	C	1,1-dichloroethane	10.000	8.448	15.5	72	0.03
34	C	MTBE	10.000	8.139	18.6	69	0.03
35	C	vinyl acetate	10.000	7.937	20.6	67	0.03
36	C	2-butanone	10.000	8.888	11.1	77	0.03
37		cis-1,2-dichloroethene	10.000	8.983	10.2	73	0.02
38		Ethyl Acetate	10.000	8.885	11.2	74	0.03
39	C	chloroform	10.000	9.422	5.8	79	0.02
40		Tetrahydrofuran	10.000	8.688	13.1	74	0.02

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\06\0620T\
Data File : r1548901.D
Acq On : 20 Jun 2024 1:18 PM
Operator : AIRLAB15:TPH
Sample : WG1937252-3,3,250,250
Misc : WG1937252,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 20 15:34:29 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0620T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 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	8.189	18.1	69	0.03
42	C	1,2-dichloroethane	10.000	9.091	9.1	77	0.02
43	I	1,4-difluorobenzene	10.000	10.000	0.0	86	0.02
44	C	hexane	10.000	11.987	-19.9	80	0.02
45		diisopropyl ether	10.000	10.238	-2.4	70	0.02
46		tert-butyl ethyl ether	10.000	9.988	0.1	68	0.03
48	C	1,1,1-trichloroethane	10.000	10.112	-1.1	68	0.02
49		1,1-dichloropropene	10.000	10.369	-3.7	72	0.02
50	C	benzene	10.000	10.259	-2.6	70	0.02
52	C	carbon tetrachloride	10.000	10.949	-9.5	74	0.02
53		cyclohexane	10.000	11.899	-19.0	81	0.02
54		tert-amyl methyl ether	10.000	8.944	10.6	62	0.02
55		dibromomethane	10.000	9.804	2.0	67	0.02
56	C	1,2-dichloropropane	10.000	10.153	-1.5	69	0.02
57		bromodichloromethane	10.000	11.975	-19.7	79	0.02
58	C	1,4-dioxane	10.000	11.537	-15.4	76	0.03
59	C	trichloroethene	10.000	9.809	1.9	66	0.02
60	C	2,2,4-trimethylpentane	10.000	12.027	-20.3	80	0.02
61		methyl methacrylate	10.000	11.836	-18.4	79	0.02
62		heptane	10.000	11.539	-15.4	78	0.02
63	C	cis-1,3-dichloropropene	10.000	10.688	-6.9	69	0.02
64	C	4-methyl-2-pentanone	10.000	11.489	-14.9	78	0.03
65		trans-1,3-dichloropropene	10.000	10.838	-8.4	70	0.02
66	C	1,1,2-trichloroethane	10.000	9.706	2.9	66	0.02
67	I	chlorobenzene-D5	10.000	10.000	0.0	100	0.02
68	C	toluene	10.000	8.313	16.9	68	0.00
71		1,3-dichloropropane	10.000	8.148	18.5	68	0.02
72		2-hexanone	10.000	10.010	-0.1	77	0.02
74		dibromochloromethane	10.000	8.966	10.3	70	0.00
75	C	1,2-dibromoethane	10.000	8.028	19.7	66	0.02
76		butyl acetate	10.000	7.561	24.4	62	0.02
77		octane	10.000	8.474	15.3	69	0.02
78	C	tetrachloroethene	10.000	7.734	22.7	64	0.02
79		1,1,1,2-tetrachloroethane	10.000	7.719	22.8	62	0.00
80	C	chlorobenzene	10.000	8.226	17.7	68	0.00
81	C	ethylbenzene	10.000	8.312	16.9	66	0.00
83	C	m+p-xylene	20.000	17.114	14.4	68	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\06\0620T\
Data File : r1548901.D
Acq On : 20 Jun 2024 1:18 PM
Operator : AIRLAB15:TPH
Sample : WG1937252-3,3,250,250
Misc : WG1937252,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 20 15:34:29 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0620T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 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	8.357	16.4	65	0.02
85	C	styrene	10.000	7.614	23.9	61	0.00
86	C	1,1,2,2-tetrachloroethane	10.000	9.520	4.8	75	0.00
87	C	o-xylene	10.000	8.847	11.5	69	0.00
88		1,2,3-trichloropropane	10.000	8.125	18.8	68	0.00
89		nonane	10.000	8.692	13.1	71	0.00
91	C	isopropylbenzene	10.000	7.564	24.4	63	0.00
92		bromobenzene	10.000	8.172	18.3	68	0.00
93		2-chlorotoluene	10.000	7.841	21.6	64	0.00
94		n-propylbenzene	10.000	8.079	19.2	65	0.00
95		4-chlorotoluene	10.000	7.786	22.1	64	0.00
96		4-ethyl toluene	10.000	7.815	21.8	62	0.00
97		1,3,5-trimethylbenzene	10.000	7.843	21.6	64	0.00
98		tert-butylbenzene	10.000	8.437	15.6	66	0.00
99		1,2,4-trimethylbenzene	10.000	8.357	16.4	64	0.00
100		decane	10.000	8.908	10.9	71	0.00
101	C	Benzyl Chloride	10.000	8.368	16.3	60	0.00
102		1,3-dichlorobenzene	10.000	8.018	19.8	63	0.00
103	C	1,4-dichlorobenzene	10.000	7.893	21.1	62	0.00
104		sec-butylbenzene	10.000	7.465	25.4	59	0.00
106		p-isopropyltoluene	10.000	7.927	20.7	62	0.00
107		1,2-dichlorobenzene	10.000	6.532	34.7#	51	0.00
108		n-butylbenzene	10.000	8.406	15.9	67	0.00
111	C	1,2-dibromo-3-chloropropane	10.000	8.611	13.9	67	0.00
112		undecane	10.000	9.369	6.3	71	0.00
114		dodecane	10.000	9.779	2.2	66	0.00
115	C	1,2,4-trichlorobenzene	10.000	7.610	23.9	53	0.00
116		naphthalene	10.000	7.645	23.6	56	0.02
117		1,2,3-trichlorobenzene	10.000	7.303	27.0	54	0.00
119	C	hexachlorobutadiene	10.000	7.423	25.8	56	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 1

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0620T\
Data File : r1548901.D
Acq On : 20 Jun 2024 1:18 PM
Operator : AIRLAB15:TPH
Sample : WG1937252-3,3,250,250
Misc : WG1937252,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 20 15:34:29 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0620T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0620T\r1548900.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.133	49	344976	10.000	ppbV	0.02
Standard Area = 349671			Recovery = 98.66%			
43) 1,4-difluorobenzene	11.367	114	870249	10.000	ppbV	0.02
Standard Area = 849696			Recovery = 102.42%			
67) chlorobenzene-D5	16.058	54	165108	10.000	ppbV	0.02
Standard Area = 163897			Recovery = 100.74%			
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.012	85	327587	8.779	ppbV	98
6) chloromethane	4.180	50	140523	9.898	ppbV	99
7) Freon-114	4.288	85	368296	10.108	ppbV	89
9) vinyl chloride	4.408	62	196105	9.275	ppbV	98
10) 1,3-butadiene	4.552	54	141383	11.298	ppbV	93
13) bromomethane	4.840	94	146717	8.927	ppbV	96
14) chloroethane	5.026	64	97010	8.812	ppbV	100
15) ethanol	5.164	31	731164	64.693	ppbV	85
17) vinyl bromide	5.410	106	133946	7.440	ppbV	99
19) acetone	5.680	43	1172812	51.450	ppbV	98
21) trichlorofluoromethane	5.870	101	282303	9.259	ppbV	98
22) isopropyl alcohol	5.967	45	620773	22.194	ppbV	99
26) 1,1-dichloroethene	6.576	61	350234	9.284	ppbV	95
27) tertiary butyl alcohol	6.642	59	374142	8.340	ppbV	93
28) methylene chloride	6.720	49	255655	9.996	ppbV	93
29) 3-chloropropene	6.852	41	316561	9.268	ppbV	98
30) carbon disulfide	7.020	76	519492	7.969	ppbV	97
31) Freon 113	7.014	101	355173	7.734	ppbV #	94
32) trans-1,2-dichloroethene	7.775	61	330717	8.815	ppbV	92
33) 1,1-dichloroethane	8.000	63	417144	8.448	ppbV	100
34) MTBE	8.067	73	440251	8.139	ppbV	94
36) 2-butanone	8.442	43	453756	8.888	ppbV	95
37) cis-1,2-dichloroethene	8.950	61	326916	8.983	ppbV	93
38) Ethyl Acetate	9.217	61	87180	8.885	ppbV	96
39) chloroform	9.292	83	375172	9.422	ppbV	98
40) Tetrahydrofuran	9.733	42	280575	8.688	ppbV	94
42) 1,2-dichloroethane	10.125	62	254011	9.091	ppbV	96
44) hexane	9.200	57	456218	11.987	ppbV	98

Data Path : O:\Forensics\Data\Airlab15\2024\06\0620T\
Data File : r1548901.D
Acq On : 20 Jun 2024 1:18 PM
Operator : AIRLAB15:TPH
Sample : WG1937252-3,3,250,250
Misc : WG1937252,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 20 15:34:29 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0620T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0620T\r1548900.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 1,1,1-trichloroethane	10.417	97	296596	10.112	ppbV		89
50) benzene	10.947	78	688740	10.259	ppbV		94
52) carbon tetrachloride	11.120	117	264629	10.949	ppbV		100
53) cyclohexane	11.267	56	485341	11.899	ppbV		96
56) 1,2-dichloropropane	11.893	63	283328	10.153	ppbV		97
57) bromodichloromethane	12.120	83	382900	11.975	ppbV		98
58) 1,4-dioxane	12.167	88	177587	11.537	ppbV		99
59) trichloroethene	12.173	130	281672	9.809	ppbV		99
60) 2,2,4-trimethylpentane	12.220	57	1528986	12.027	ppbV	#	99
62) heptane	12.533	43	488889	11.539	ppbV	#	97
63) cis-1,3-dichloropropene	13.183	75	331594	10.688	ppbV		98
64) 4-methyl-2-pentanone	13.225	43	554337	11.489	ppbV	#	96
65) trans-1,3-dichloropropene	13.808	75	256889	10.838	ppbV		96
66) 1,1,2-trichloroethane	14.000	97	269355	9.706	ppbV		91
68) toluene	14.308	91	864082	8.313	ppbV		100
72) 2-hexanone	14.592	43	502207	10.010	ppbV	#	98
74) dibromochloromethane	14.750	129	360831	8.966	ppbV		100
75) 1,2-dibromoethane	15.000	107	367885	8.028	ppbV		99
78) tetrachloroethene	15.458	166	316147	7.734	ppbV		95
80) chlorobenzene	16.092	112	632323	8.226	ppbV		96
81) ethylbenzene	16.442	91	1107291	8.312	ppbV		97
83) m+p-xylene	16.600	91	1784863	17.114	ppbV		96
84) bromoform	16.675	173	298237	8.357	ppbV		96
85) styrene	16.925	104	624874	7.614	ppbV		94
86) 1,1,2,2-tetrachloroethane	17.017	83	679798	9.520	ppbV		96
87) o-xylene	17.017	91	922156	8.847	ppbV		97
96) 4-ethyl toluene	18.083	105	1075010	7.815	ppbV		95
97) 1,3,5-trimethylbenzene	18.142	105	1042263	7.843	ppbV		93
99) 1,2,4-trimethylbenzene	18.492	105	946257	8.357	ppbV		96
101) Benzyl Chloride	18.608	91	551499	8.368	ppbV		96
102) 1,3-dichlorobenzene	18.617	146	637288	8.018	ppbV		98
103) 1,4-dichlorobenzene	18.675	146	634366M4	7.893	ppbV		
107) 1,2-dichlorobenzene	18.958	146	495491	6.532	ppbV		96
115) 1,2,4-trichlorobenzene	20.458	180	424452	7.610	ppbV		96
116) naphthalene	20.583	128	1138732	7.645	ppbV		98
119) hexachlorobutadiene	20.900	225	358483	7.423	ppbV		96

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0620T\
Data File : r1548901.D
Acq On : 20 Jun 2024 1:18 PM
Operator : AIRLAB15:TPH
Sample : WG1937252-3,3,250,250
Misc : WG1937252,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 20 15:34:29 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0620T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

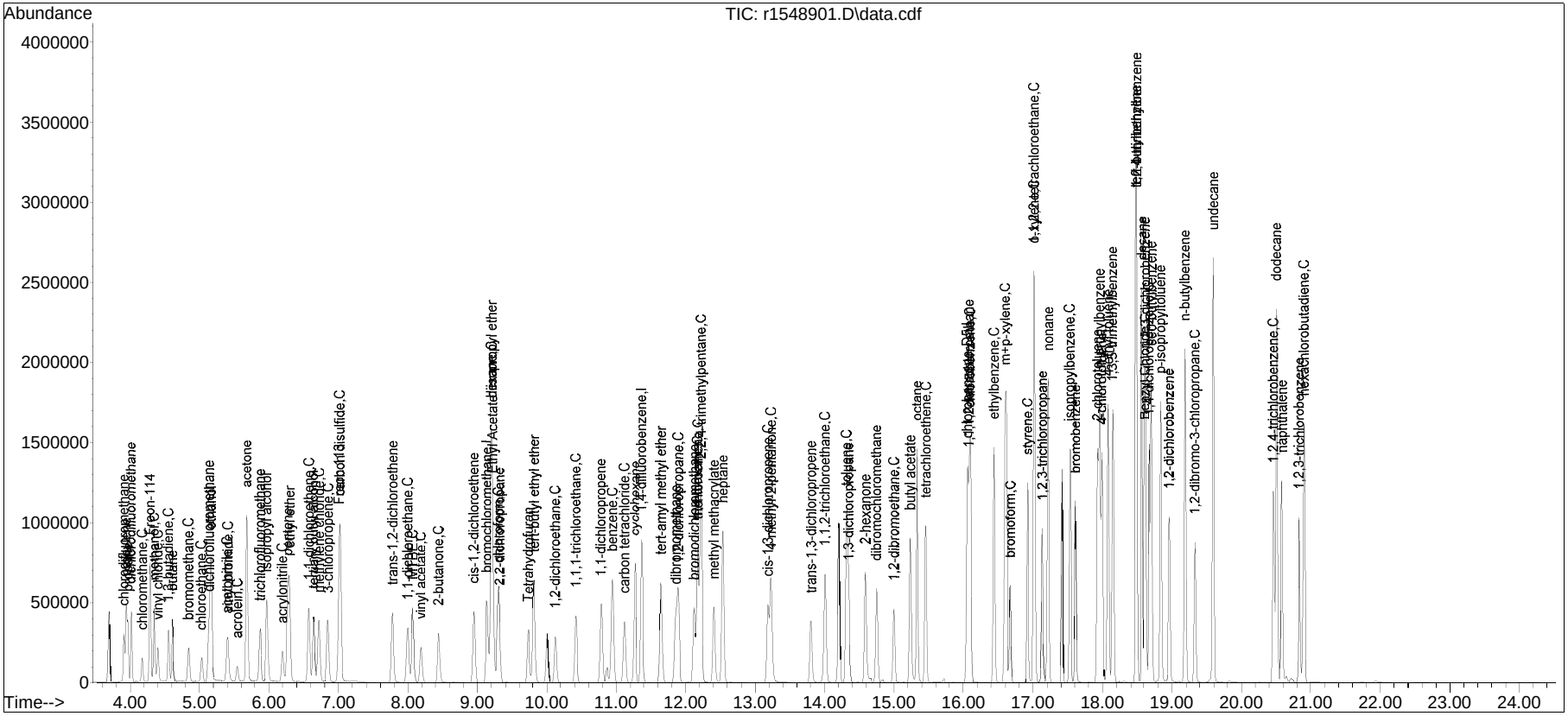
CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0620T\r1548900.D
Sub List : Default-LCS-AP2 - All compounds listed

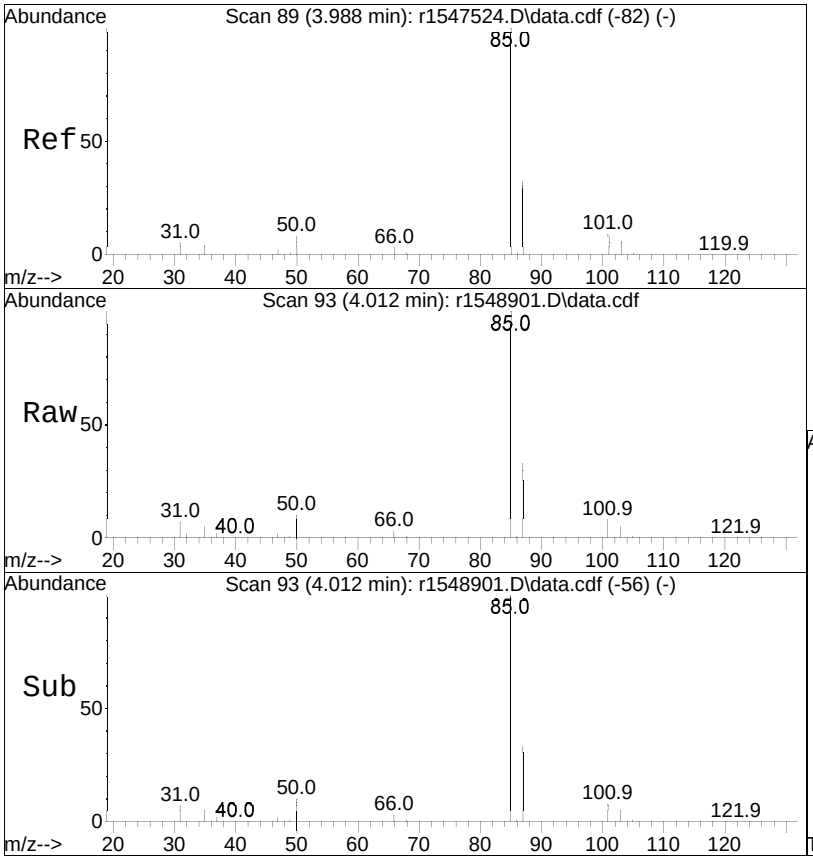
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : Default-LCS-AP2 - All compounds listed0T\r1548900.D

Data Path : O:\Forensics\Data\Airlab15\2024\06\0620T\
Data File : r1548901.D
Acq On : 20 Jun 2024 1:18 PM
Operator : AIRLAB15:TPH
Sample : WG1937252-3,3,250,250
Misc : WG1937252,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 20 15:34:29 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0620T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

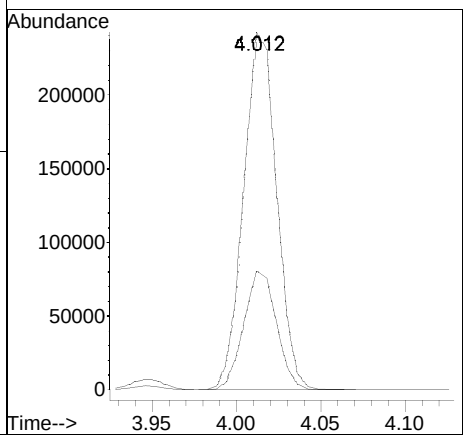


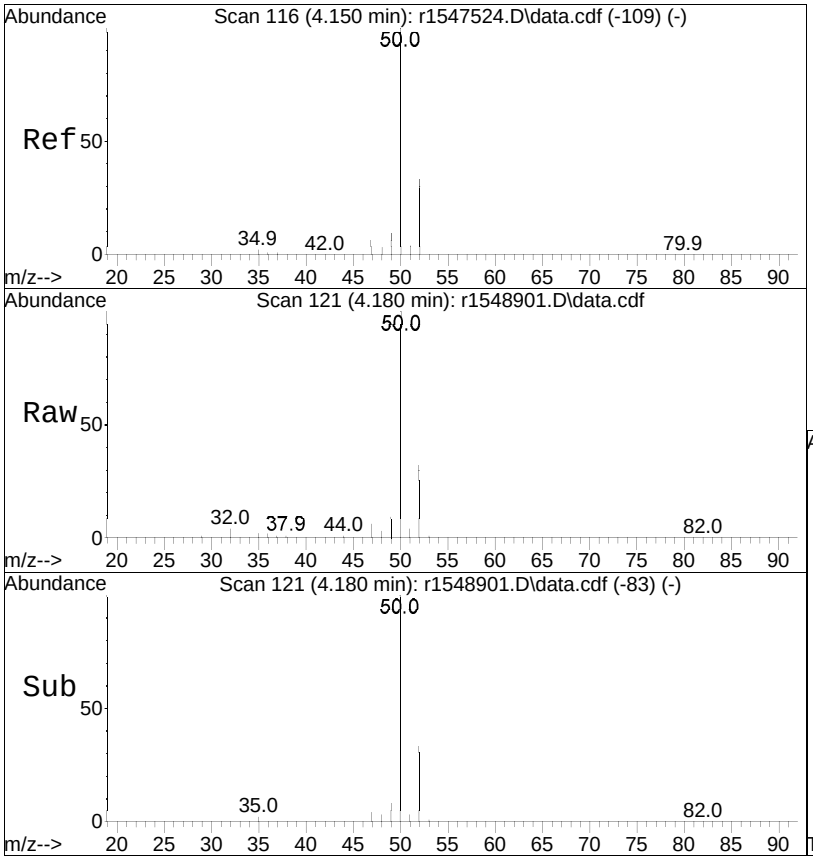


#5
dichlorodifluoromethane
Concen: 8.78 ppbV
RT: 4.012 min Scan# 93
Delta R.T. 0.024 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 85 Resp: 327587

Ion	Ratio	Lower	Upper
85	100		
87	33.3	25.8	38.8

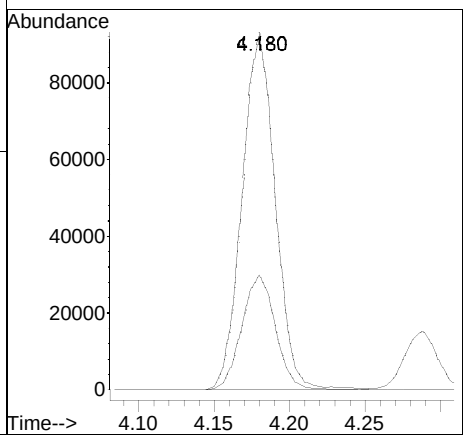


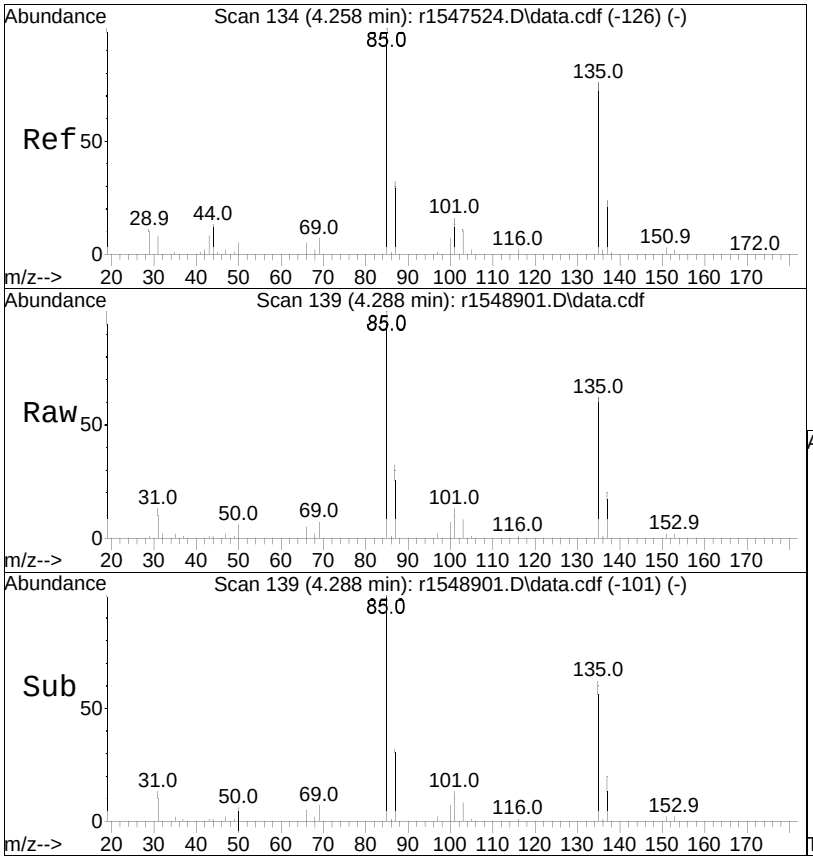


#6
chloromethane
Concen: 9.90 ppbV
RT: 4.180 min Scan# 121
Delta R.T. 0.030 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 50 Resp: 140523

Ion	Ratio	Lower	Upper
50	100		
52	32.2	26.0	39.0

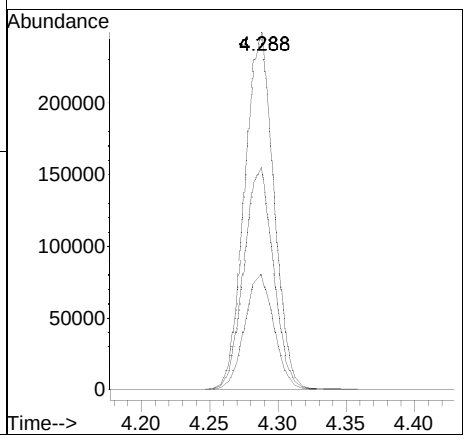


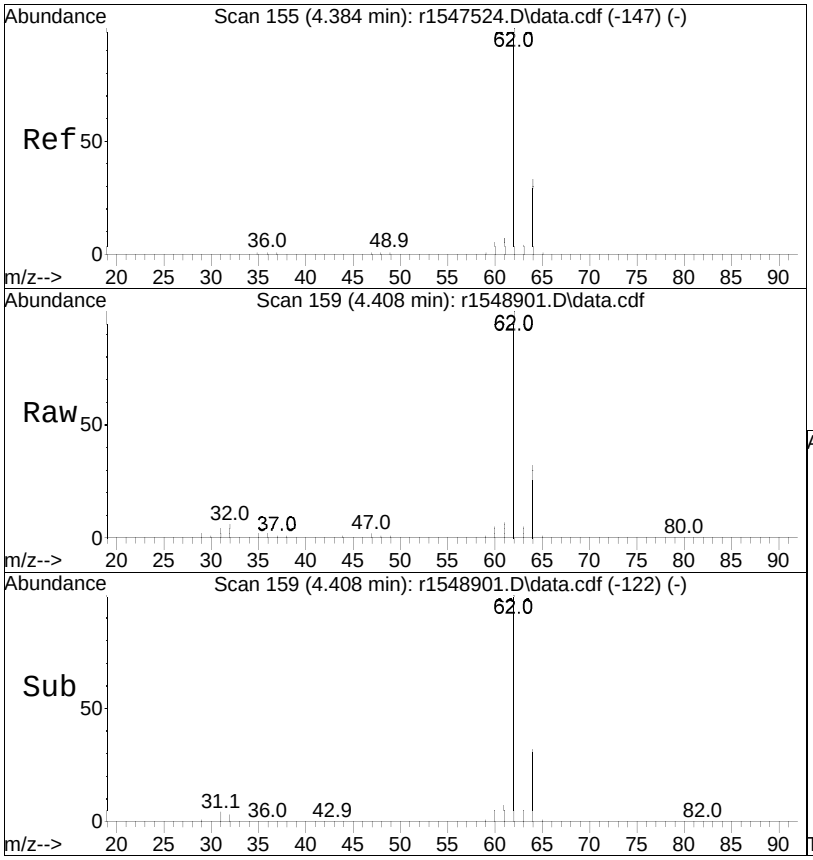


#7
Freon-114
Concen: 10.11 ppbV
RT: 4.288 min Scan# 139
Delta R.T. 0.030 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 85 Resp: 368296

Ion	Ratio	Lower	Upper
85	100		
87	32.3	25.8	38.6
135	62.4	60.7	91.1

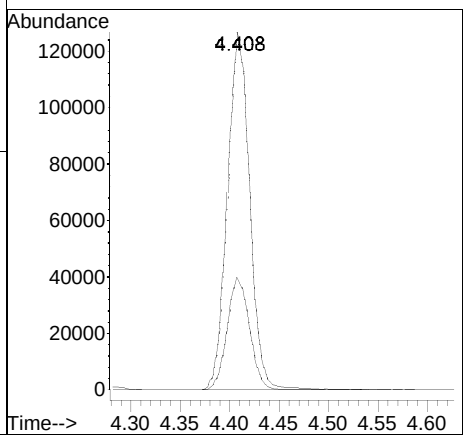


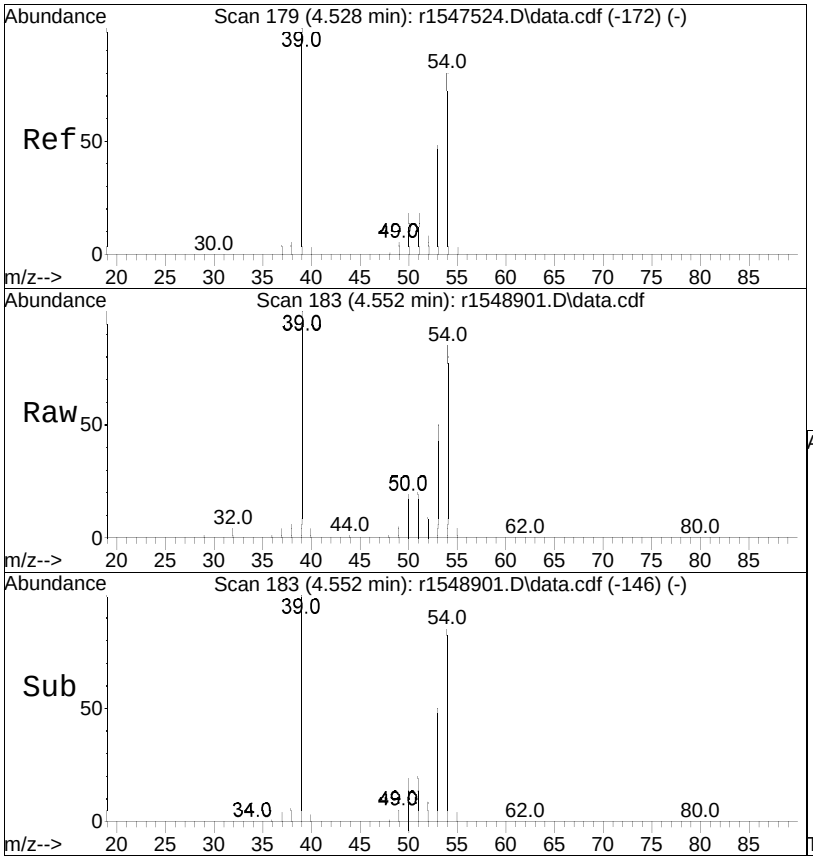


#9
vinyl chloride
Concen: 9.27 ppbV
RT: 4.408 min Scan# 159
Delta R.T. 0.024 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 62 Resp: 196105

Ion	Ratio	Lower	Upper
62	100		
64	31.6	26.2	39.4

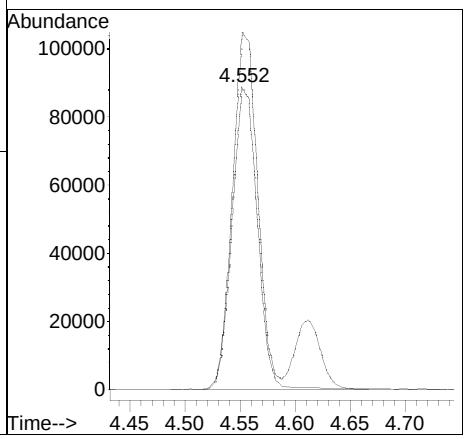


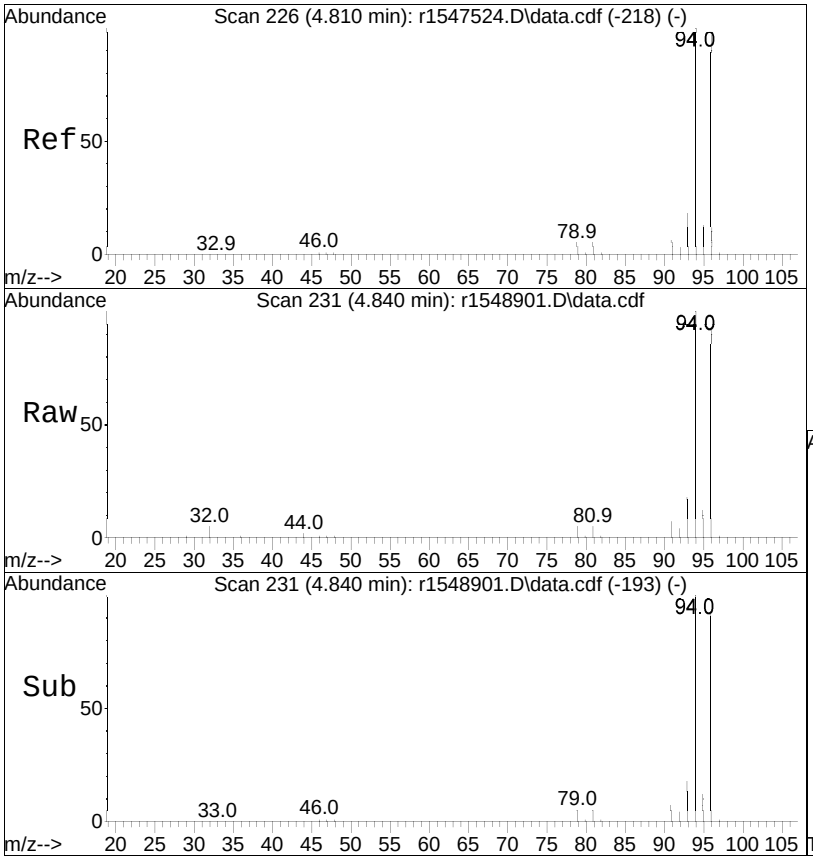


#10
1,3-butadiene
Concen: 11.30 ppbV
RT: 4.552 min Scan# 183
Delta R.T. 0.024 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 54 Resp: 141383

Ion	Ratio	Lower	Upper
54	100		
39	117.8	101.0	151.4

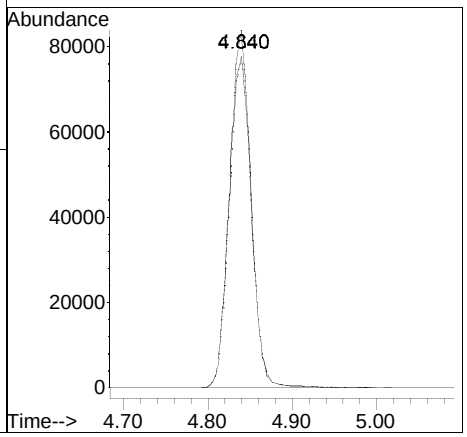


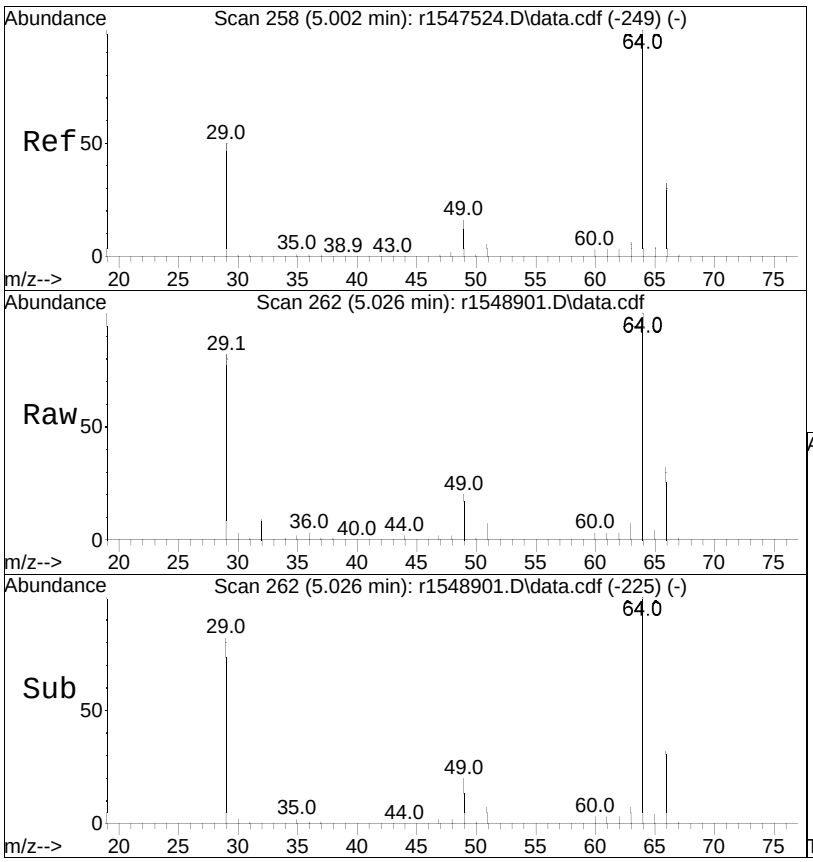


#13
bromomethane
Concen: 8.93 ppbV
RT: 4.840 min Scan# 231
Delta R.T. 0.030 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 94 Resp: 146717

Ion	Ratio	Lower	Upper
94	100		
96	92.8	77.6	116.4

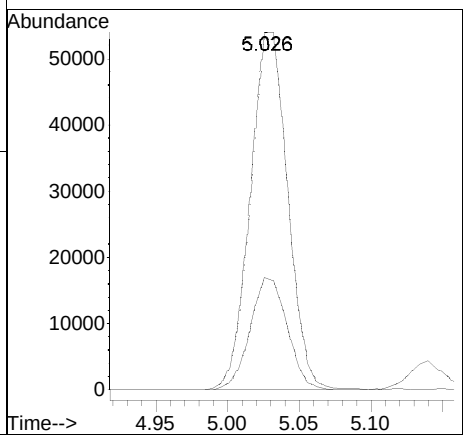


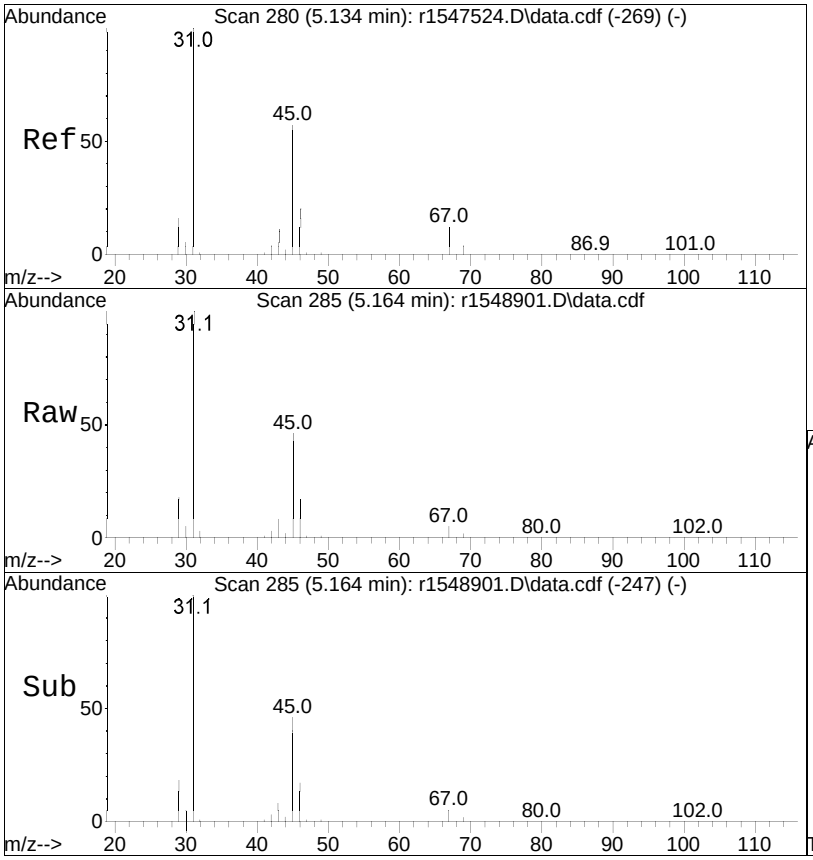


#14
chloroethane
Concen: 8.81 ppbV
RT: 5.026 min Scan# 262
Delta R.T. 0.024 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 64 Resp: 97010

Ion	Ratio	Lower	Upper
64	100		
66	31.6	25.4	38.2

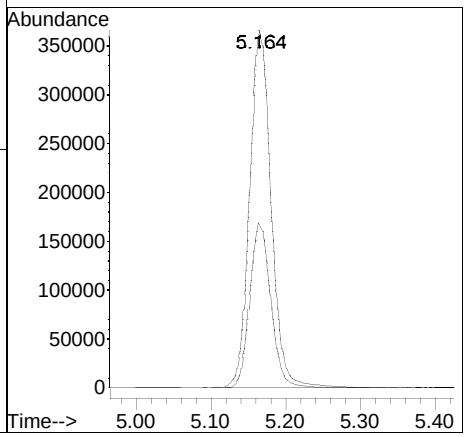


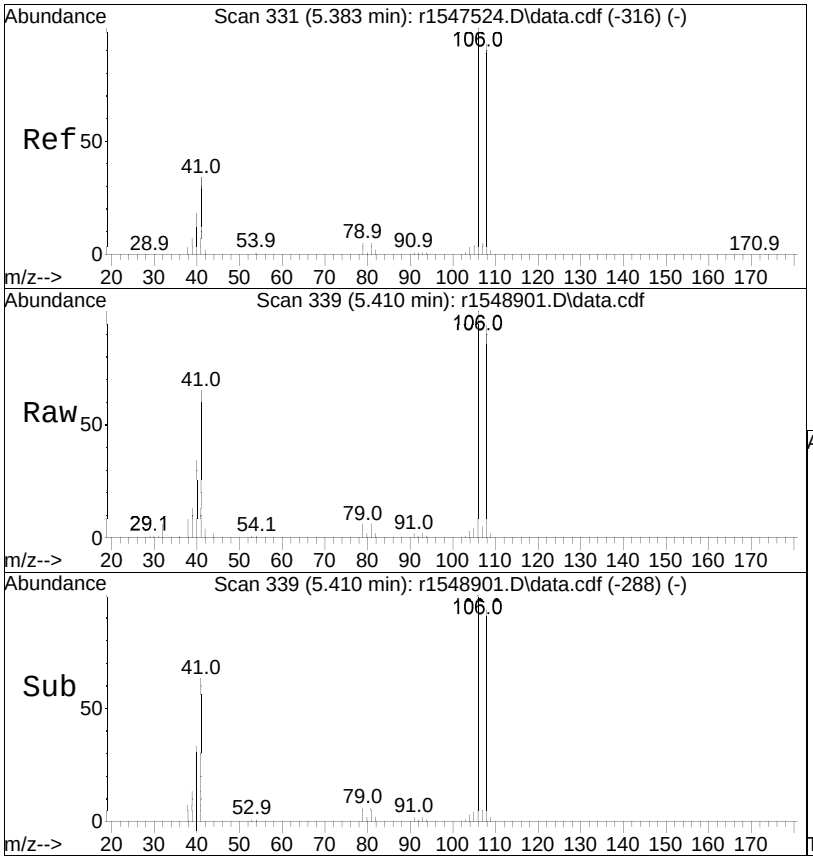


#15
ethanol
Concen: 64.69 ppbV
RT: 5.164 min Scan# 285
Delta R.T. 0.030 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 31 Resp: 731164

Ion	Ratio	Lower	Upper
31	100		
45	46.1	45.7	68.5

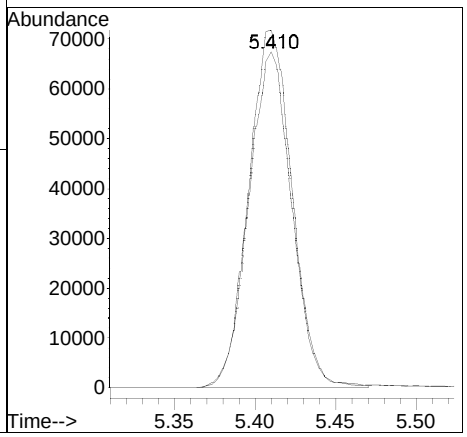


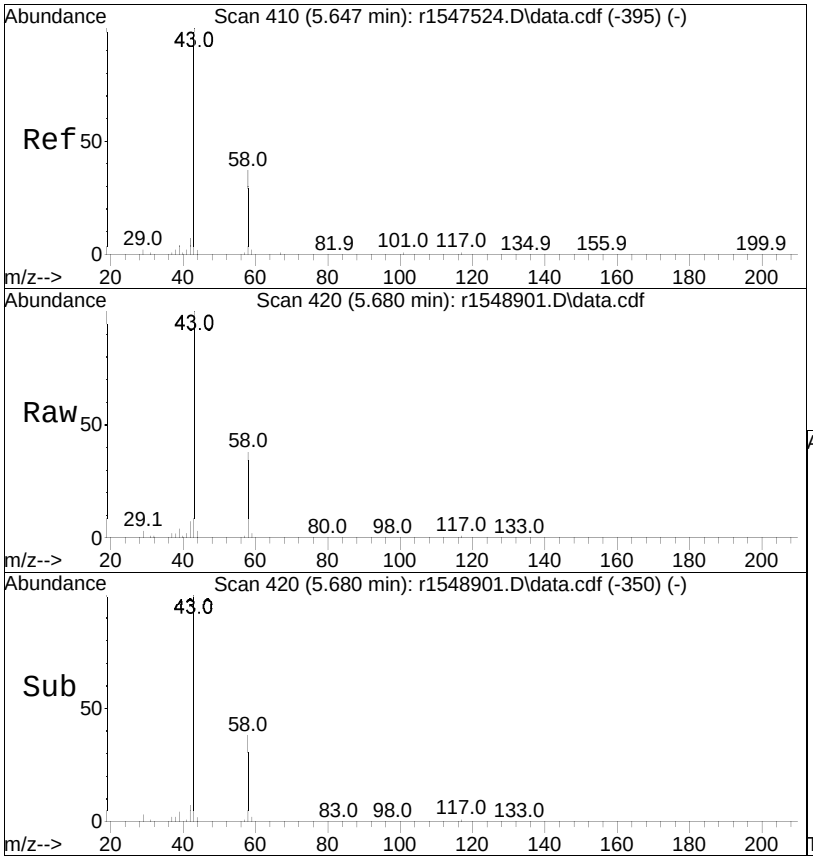


#17
vinyl bromide
Concen: 7.44 ppbV
RT: 5.410 min Scan# 339
Delta R.T. 0.027 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion:106 Resp: 133946

Ion	Ratio	Lower	Upper
106	100		
108	94.1	74.4	111.6

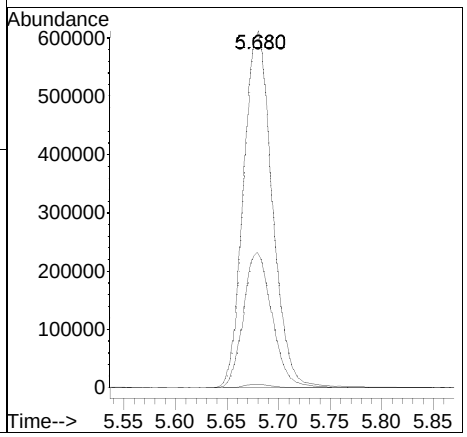


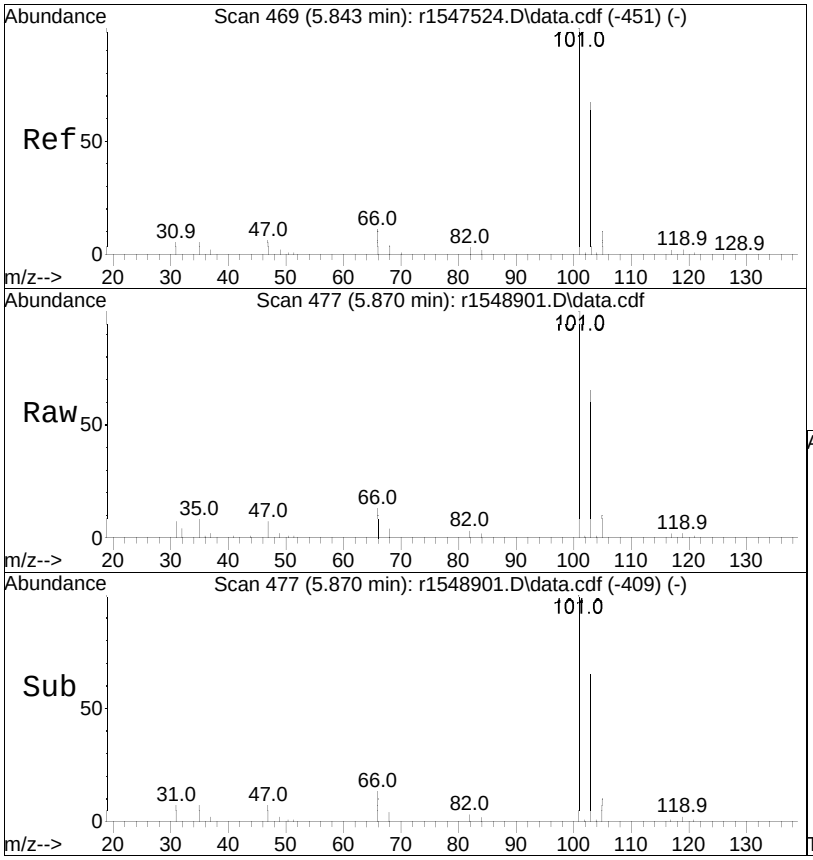


#19
acetone
Concen: 51.45 ppbV
RT: 5.680 min Scan# 420
Delta R.T. 0.033 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 43 Resp: 1172812

Ion	Ratio	Lower	Upper
43	100		
58	37.9	29.4	44.0
57	1.0	0.7	1.1

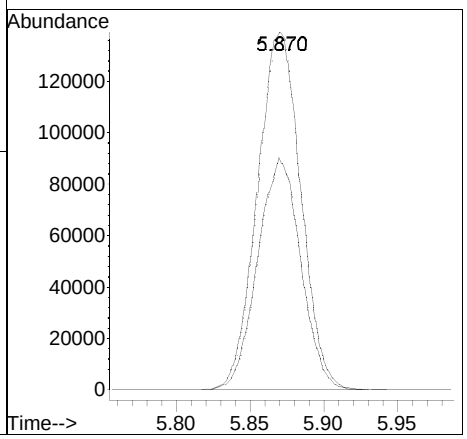


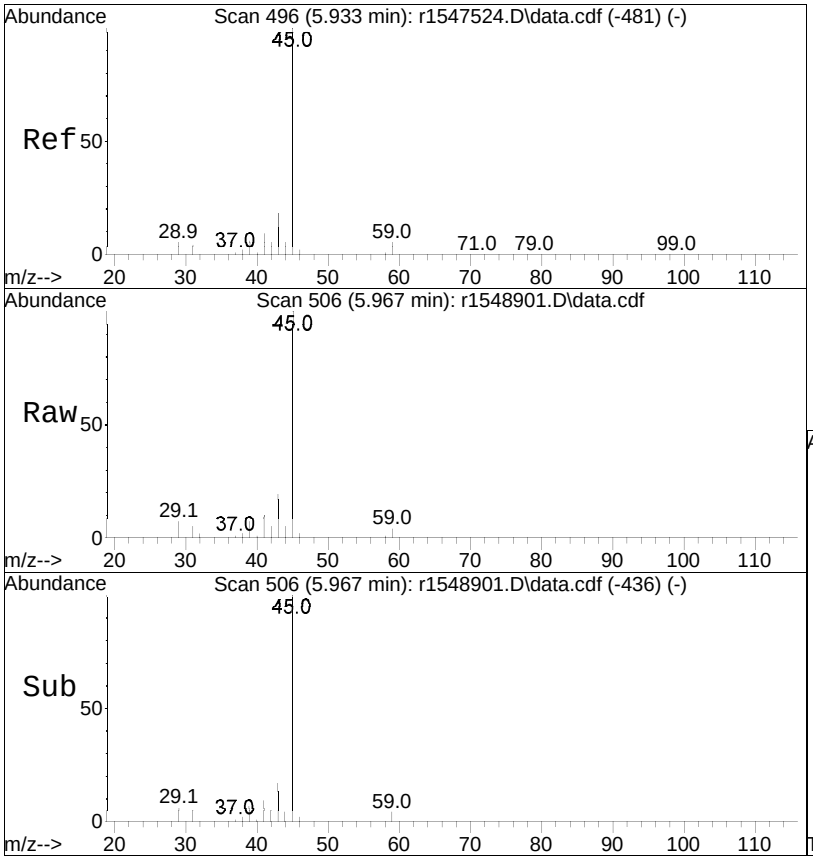


#21
trichlorofluoromethane
Concen: 9.26 ppbV
RT: 5.870 min Scan# 477
Delta R.T. 0.027 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion:101 Resp: 282303

Ion	Ratio	Lower	Upper
101	100		
103	65.0	53.4	80.0

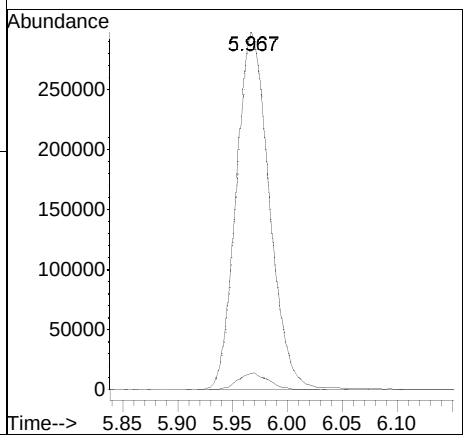


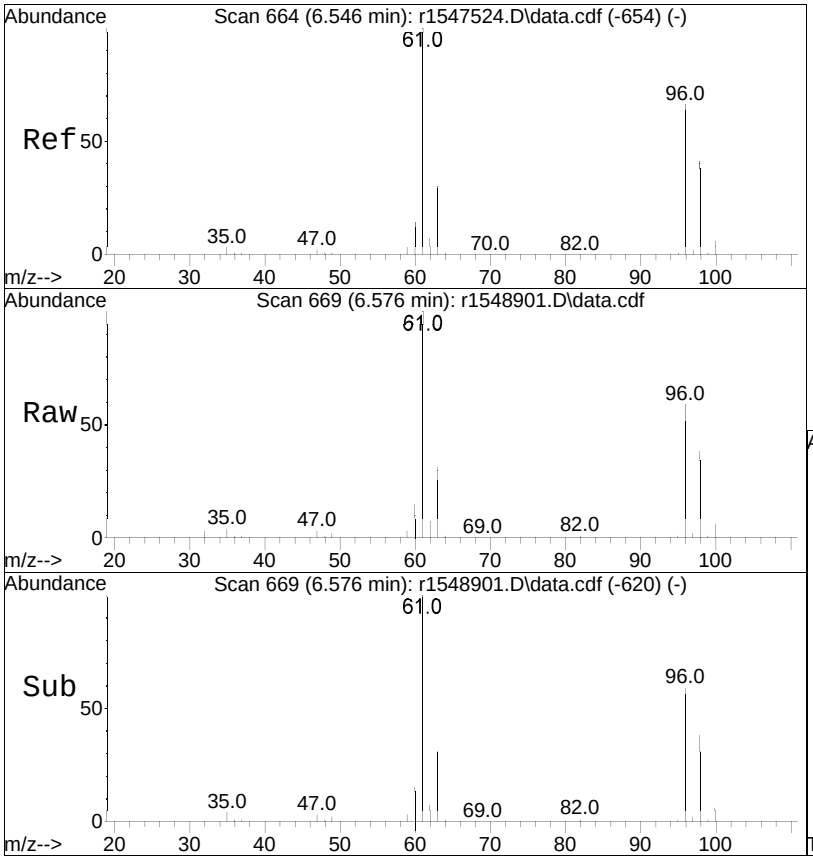


#22
isopropyl alcohol
Concen: 22.19 ppbV
RT: 5.967 min Scan# 506
Delta R.T. 0.033 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 45 Resp: 620773

Ion	Ratio	Lower	Upper
45	100		
59	4.5	3.8	5.6

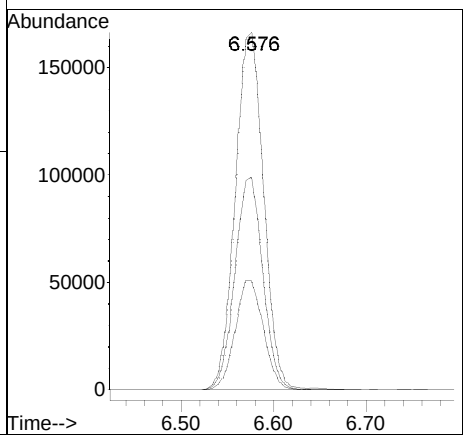


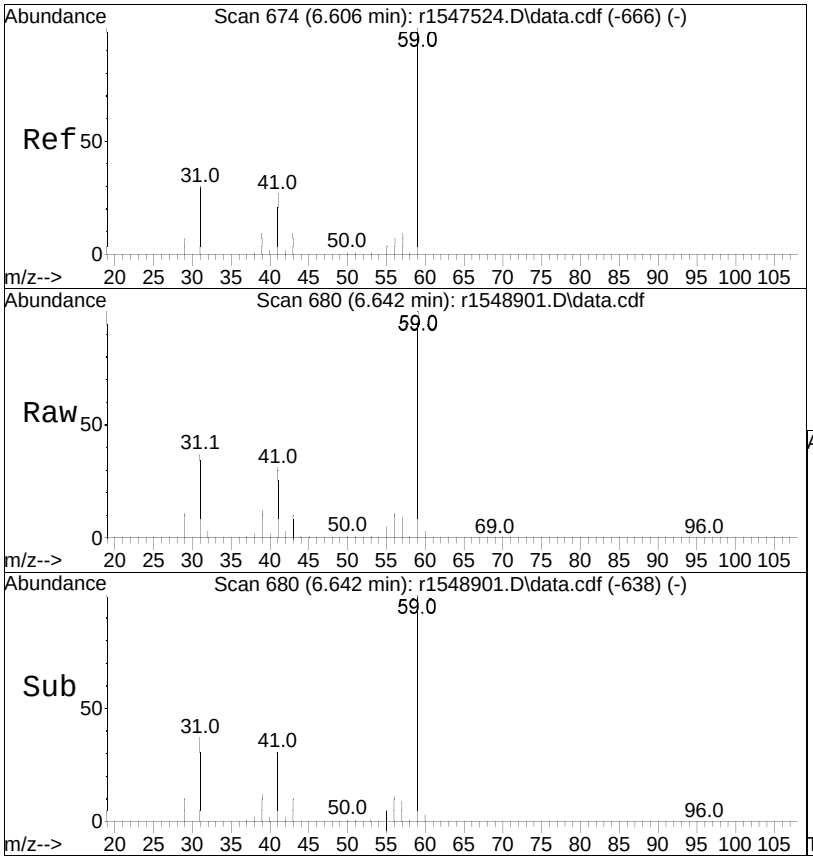


#26
1,1-dichloroethene
Concen: 9.28 ppbV
RT: 6.576 min Scan# 669
Delta R.T. 0.030 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 61 Resp: 350234

Ion	Ratio	Lower	Upper
61	100		
96	59.5	52.6	78.8
63	30.7	24.4	36.6

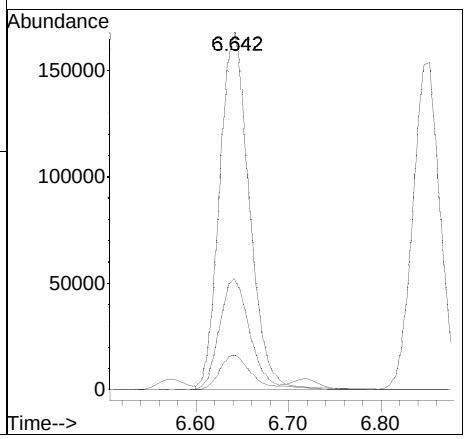


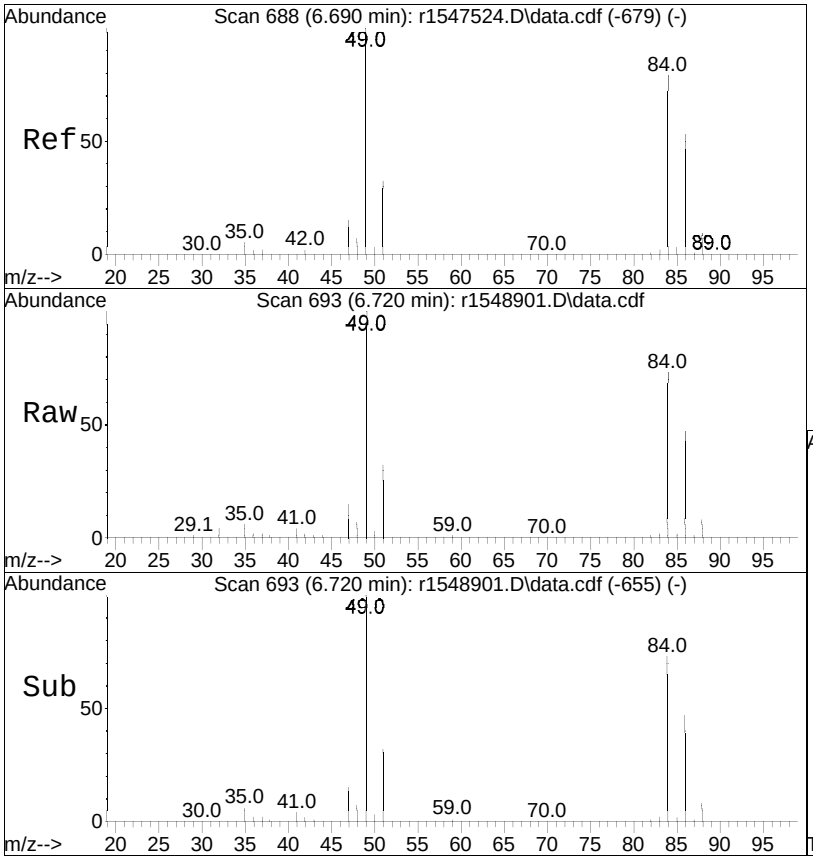


#27
tertiary butyl alcohol
Concen: 8.34 ppbV
RT: 6.642 min Scan# 680
Delta R.T. 0.036 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 59 Resp: 374142

Ion	Ratio	Lower	Upper
59	100		
41	31.4	21.3	31.9
43	9.8	7.4	11.0

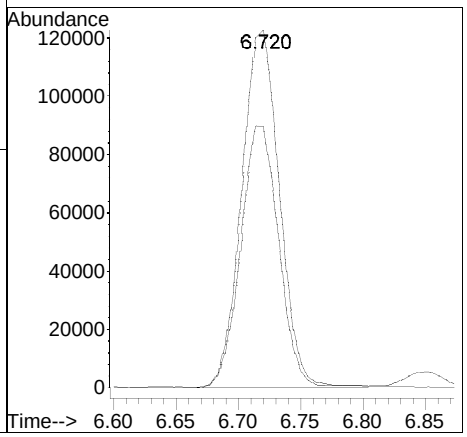


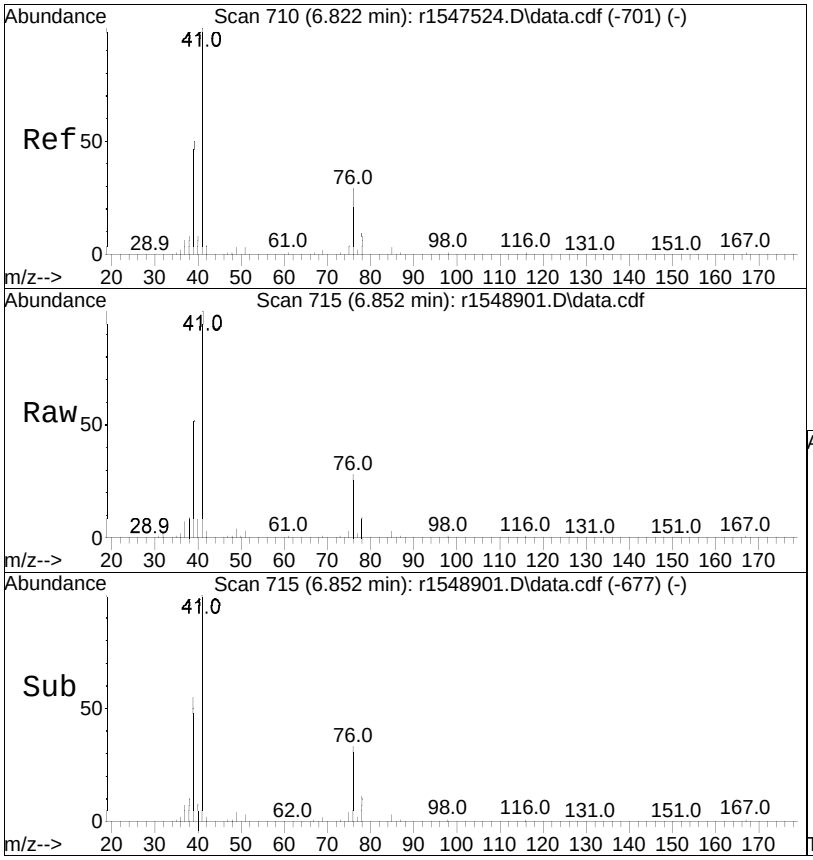


#28
methylene chloride
Concen: 10.00 ppbV
RT: 6.720 min Scan# 693
Delta R.T. 0.030 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 49 Resp: 255655

Ion	Ratio	Lower	Upper
49	100		
84	73.2	63.4	95.2

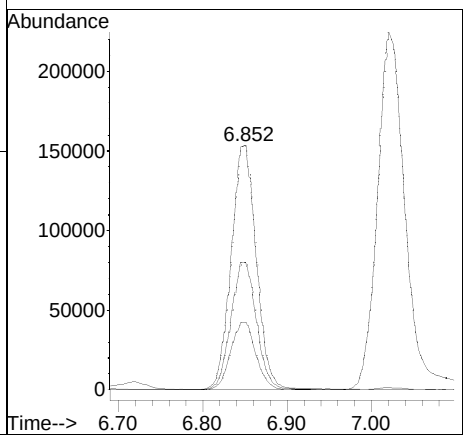


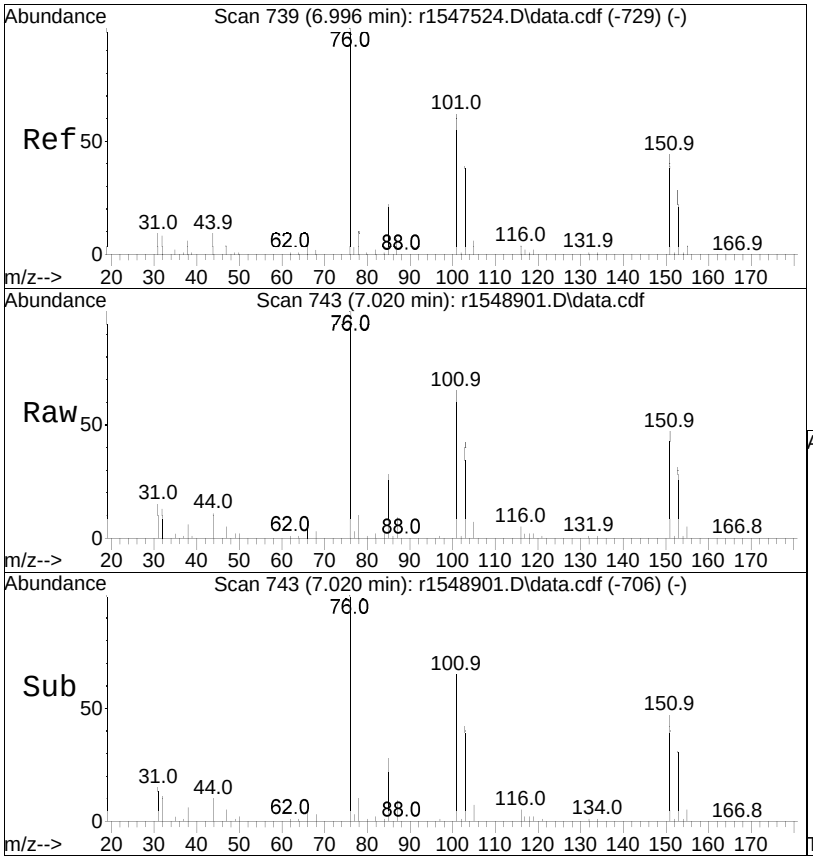


#29
3-chloropropene
Concen: 9.27 ppbV
RT: 6.852 min Scan# 715
Delta R.T. 0.030 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 41 Resp: 316561

Ion	Ratio	Lower	Upper
41	100		
39	52.0	40.4	60.6
76	27.7	23.3	34.9

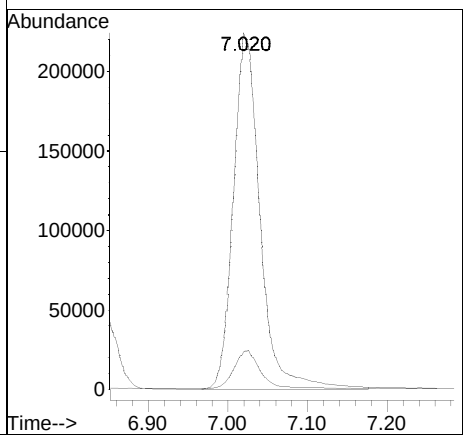


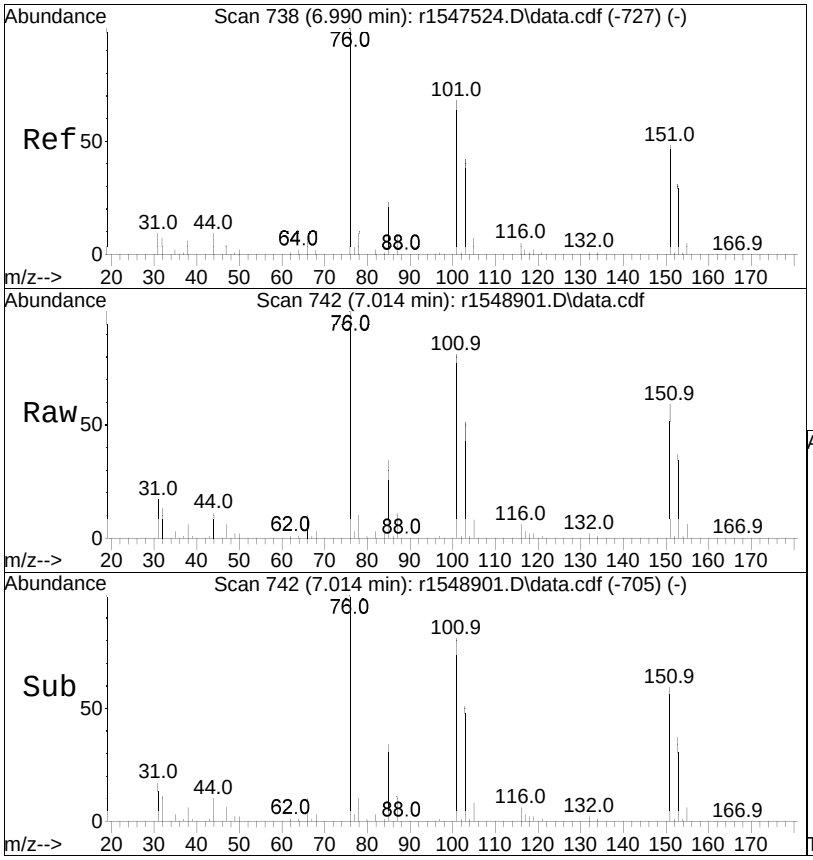


#30
carbon disulfide
Concen: 7.97 ppbV
RT: 7.020 min Scan# 743
Delta R.T. 0.024 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 76 Resp: 519492

Ion	Ratio	Lower	Upper
76	100		
44	10.6	7.5	11.3

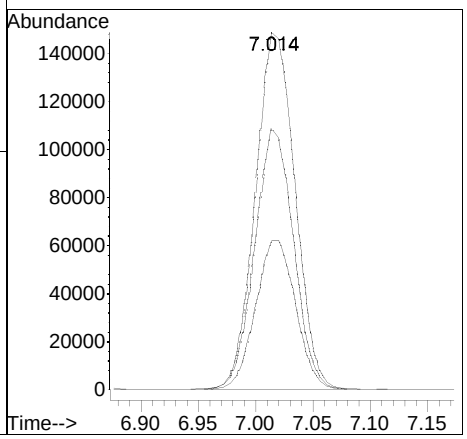


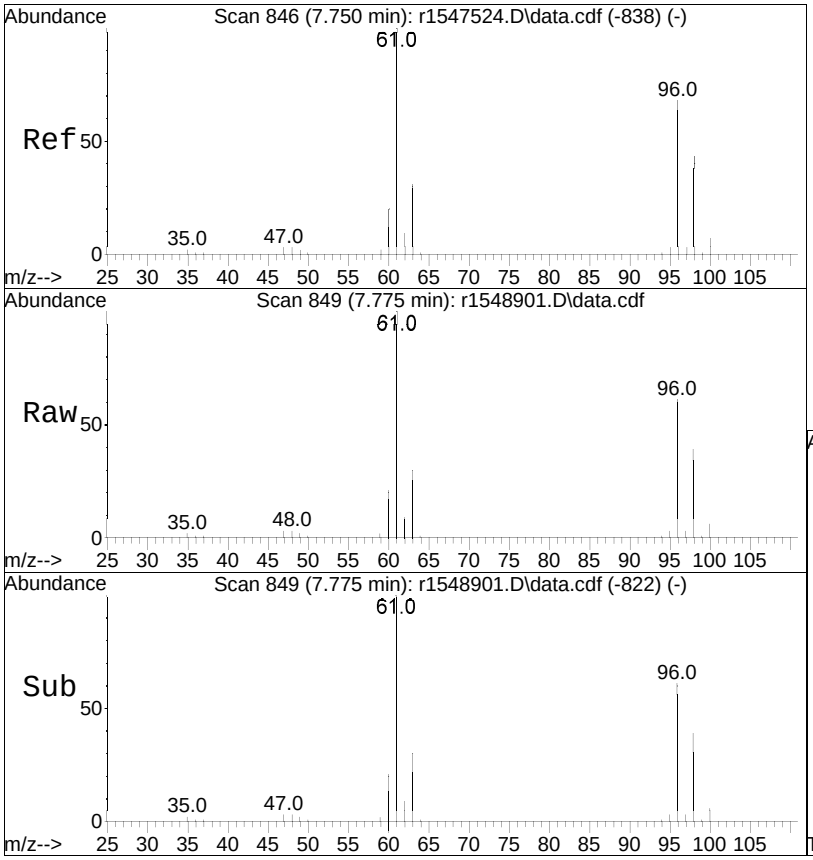


#31
Freon 113
Concen: 7.73 ppbV
RT: 7.014 min Scan# 742
Delta R.T. 0.024 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion:101 Resp: 355173

Ion	Ratio	Lower	Upper
101	100		
85	42.0	27.6	41.4#
151	73.2	56.9	85.3

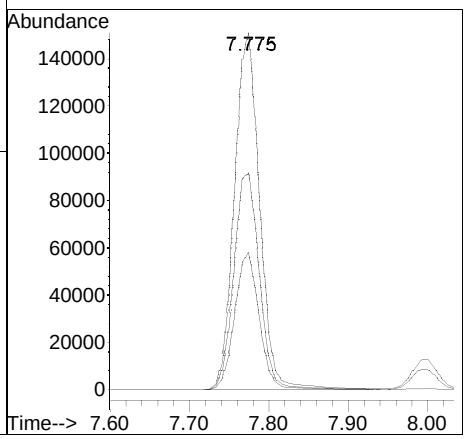


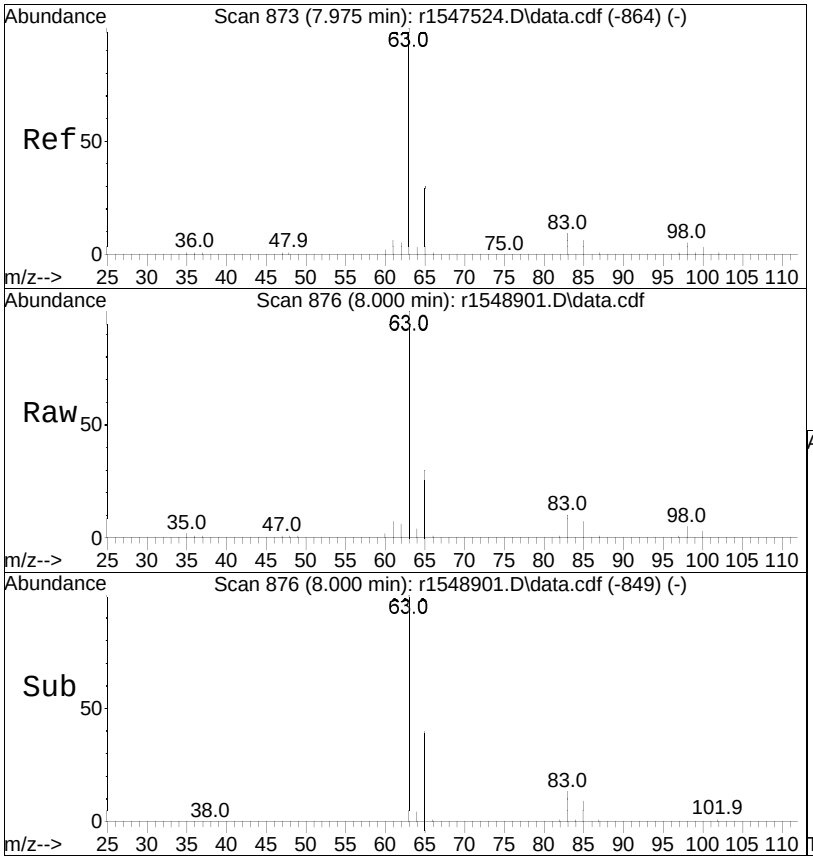


#32
trans-1,2-dichloroethene
Concen: 8.82 ppbV
RT: 7.775 min Scan# 849
Delta R.T. 0.025 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 61 Resp: 330717

Ion	Ratio	Lower	Upper
61	100		
96	60.7	54.3	81.5
98	38.6	34.1	51.1

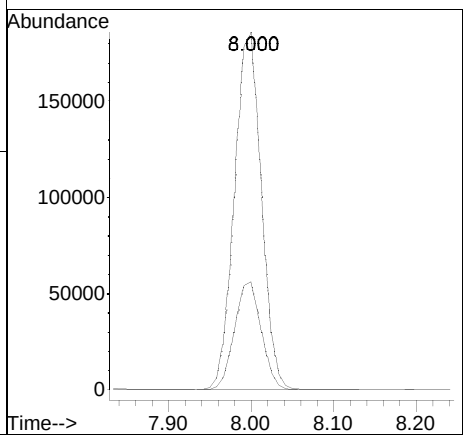


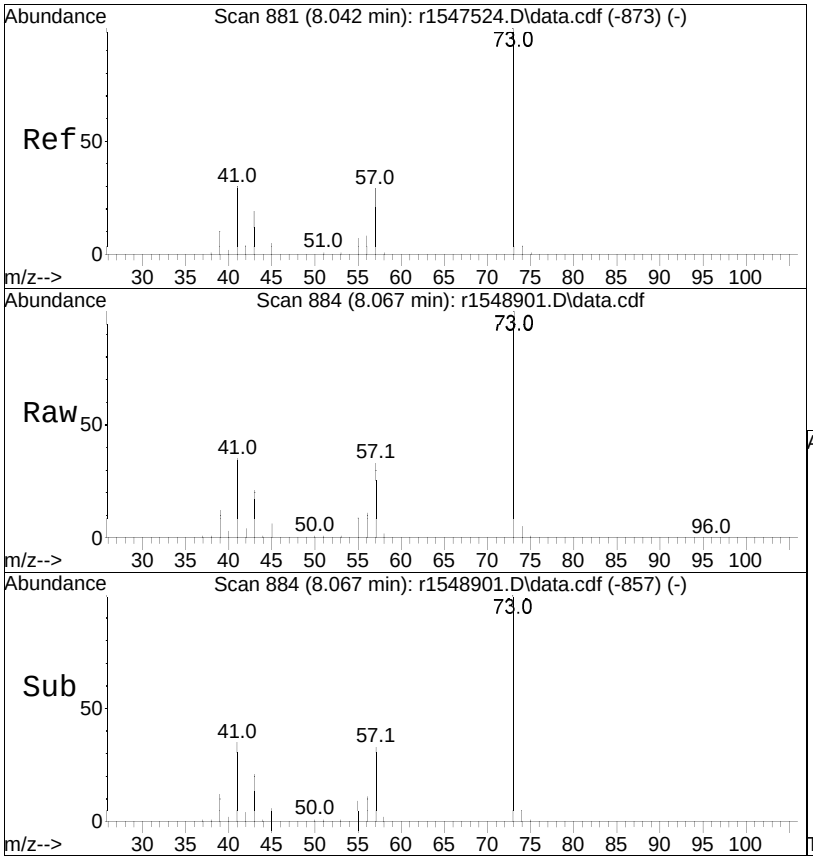


#33
1,1-dichloroethane
Concen: 8.45 ppbV
RT: 8.000 min Scan# 876
Delta R.T. 0.025 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 63 Resp: 417144

Ion	Ratio	Lower	Upper
63	100		
65	30.3	24.2	36.4

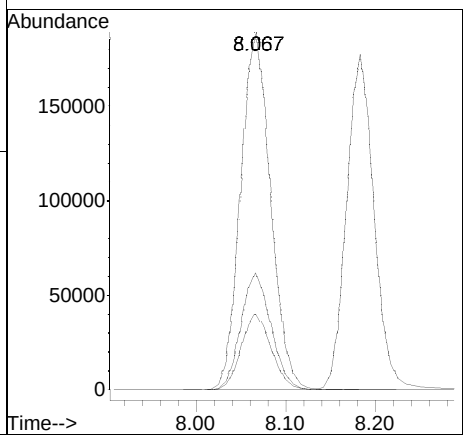


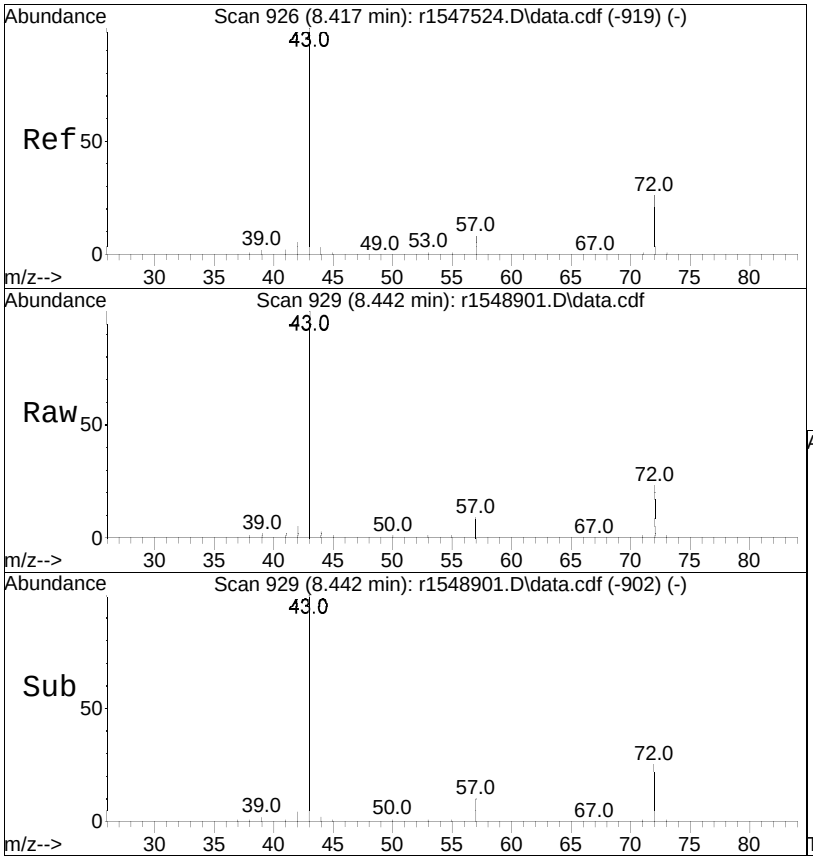


#34
MTBE
Concen: 8.14 ppbV
RT: 8.067 min Scan# 884
Delta R.T. 0.025 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 73 Resp: 440251

Ion	Ratio	Lower	Upper
73	100		
57	32.8	23.5	35.3
43	21.4	15.4	23.0

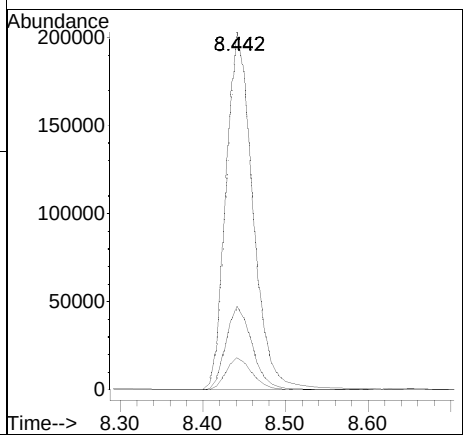


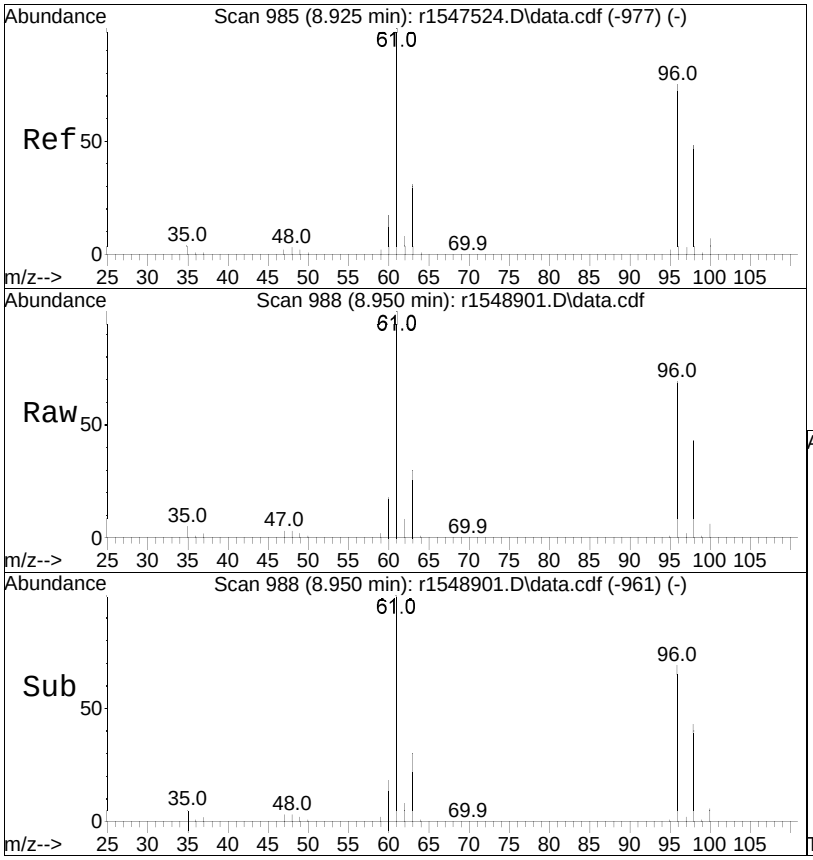


#36
2-butanone
Concen: 8.89 ppbV
RT: 8.442 min Scan# 929
Delta R.T. 0.025 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 43 Resp: 453756

Ion	Ratio	Lower	Upper
43	100		
72	23.3	20.9	31.3
57	9.0	6.6	10.0

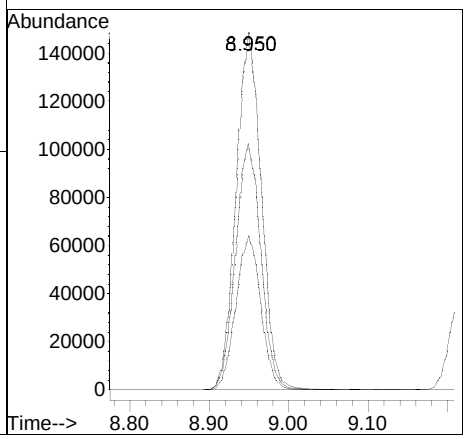


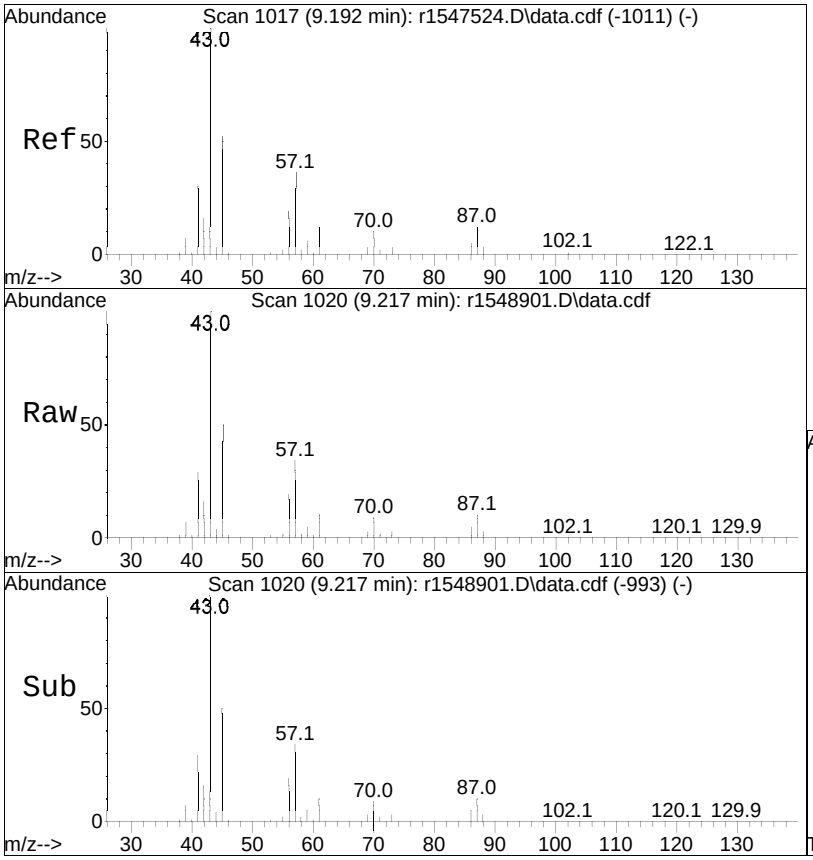


#37
cis-1,2-dichloroethene
Concen: 8.98 ppbV
RT: 8.950 min Scan# 988
Delta R.T. 0.025 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 61 Resp: 326916

Ion	Ratio	Lower	Upper
61	100		
96	69.0	60.3	90.5
98	43.1	38.2	57.2

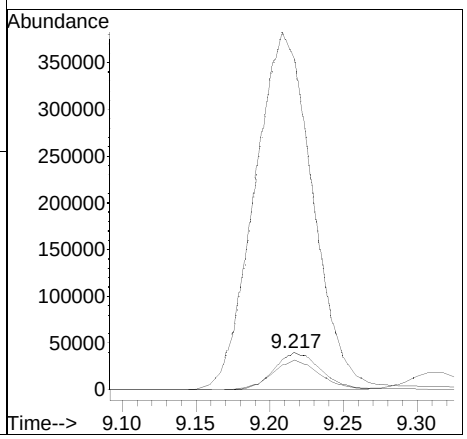


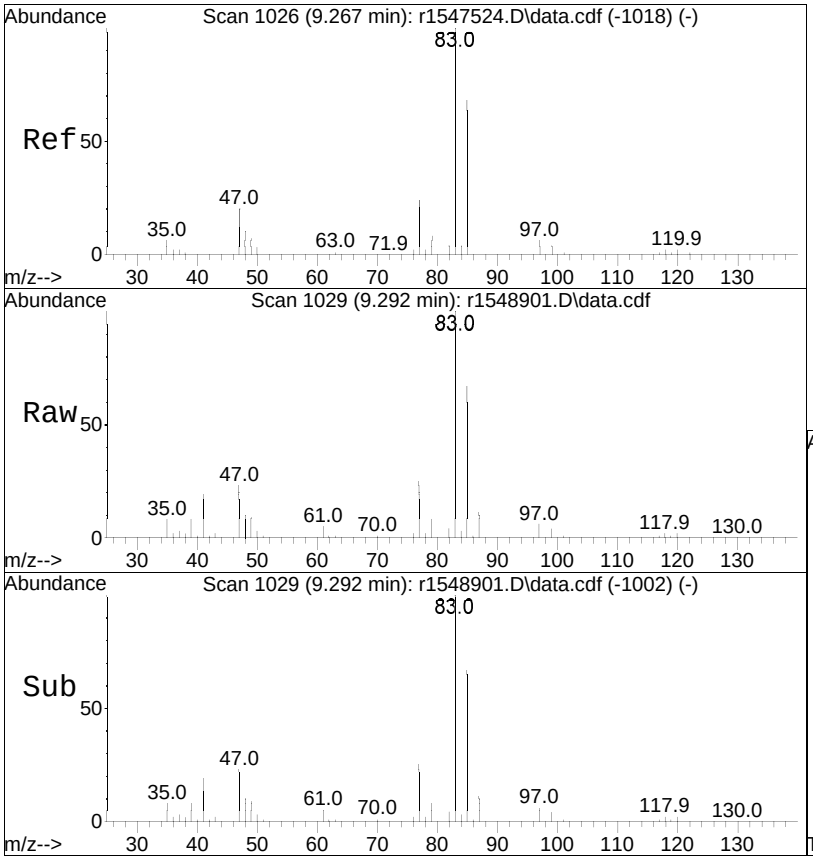


#38
Ethyl Acetate
Concen: 8.88 ppbV
RT: 9.217 min Scan# 1020
Delta R.T. 0.025 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 61 Resp: 87180

Ion	Ratio	Lower	Upper
61	100		
70	80.6	67.9	101.9
43	895.5	703.5	1055.3

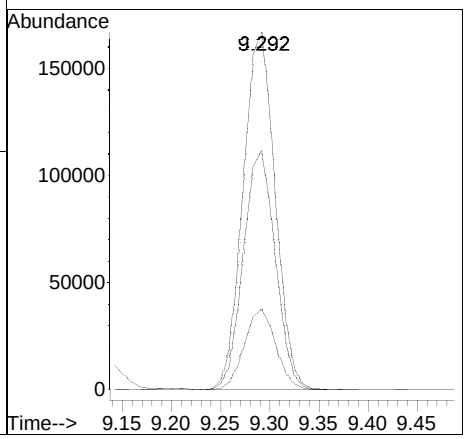


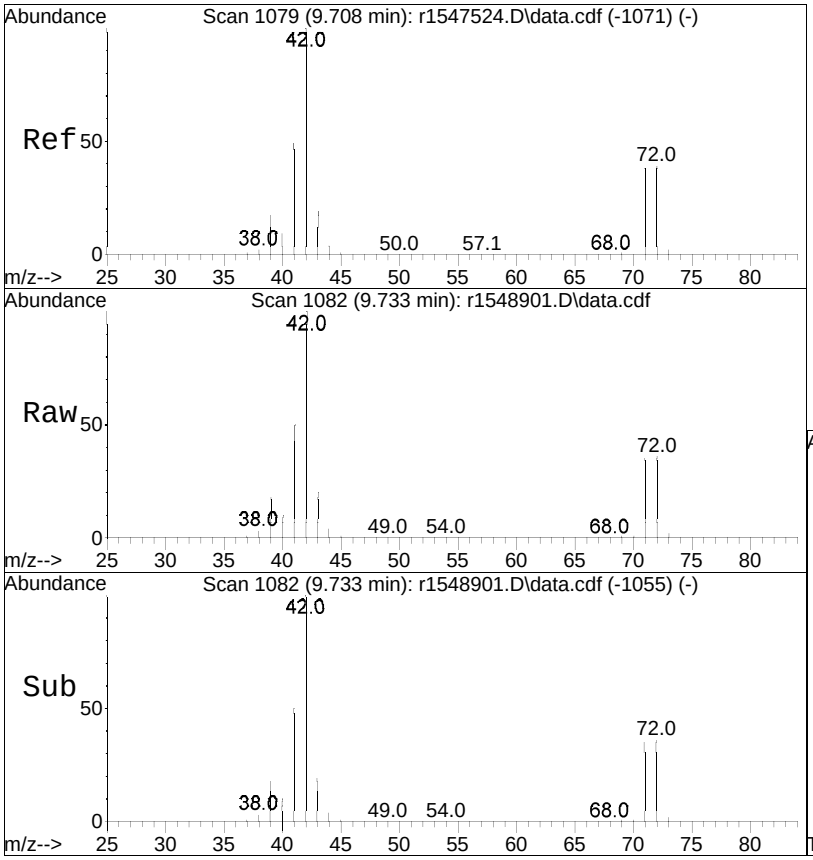


#39
chloroform
Concen: 9.42 ppbV
RT: 9.292 min Scan# 1029
Delta R.T. 0.025 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 83 Resp: 375172

Ion	Ratio	Lower	Upper
83	100		
85	67.0	54.3	81.5
47	22.7	16.4	24.6

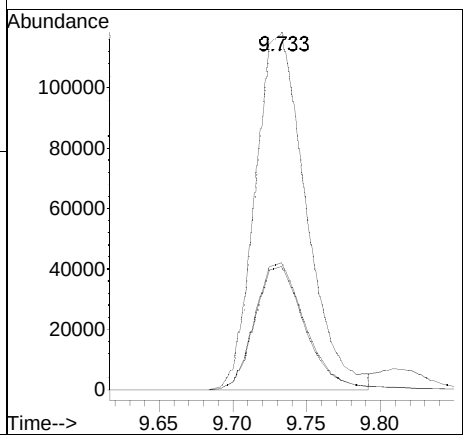


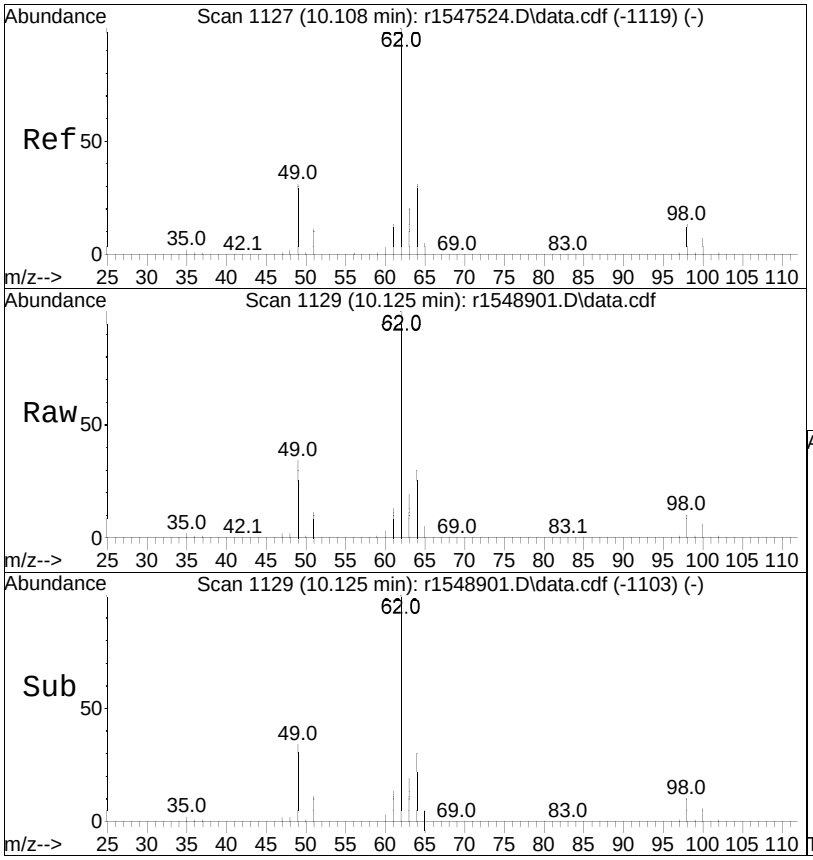


#40
Tetrahydrofuran
Concen: 8.69 ppbV
RT: 9.733 min Scan# 1082
Delta R.T. 0.025 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 42 Resp: 280575

Ion	Ratio	Lower	Upper
42	100		
71	34.6	30.1	45.1
72	35.6	31.4	47.2

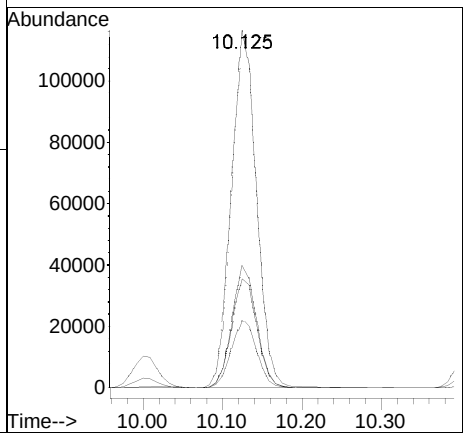


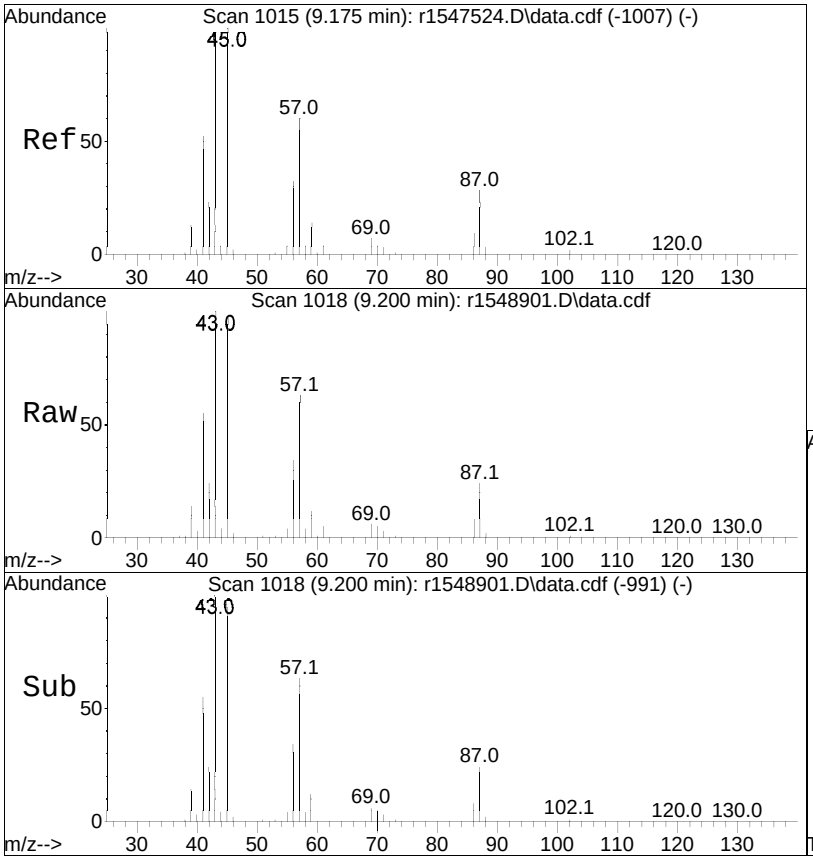


#42
1,2-dichloroethane
Concen: 9.09 ppbV
RT: 10.125 min Scan# 1129
Delta R.T. 0.017 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 62 Resp: 254011

Ion	Ratio	Lower	Upper
62	100		
64	30.5	25.2	37.8
49	34.3	24.8	37.2
63	19.0	16.3	24.5

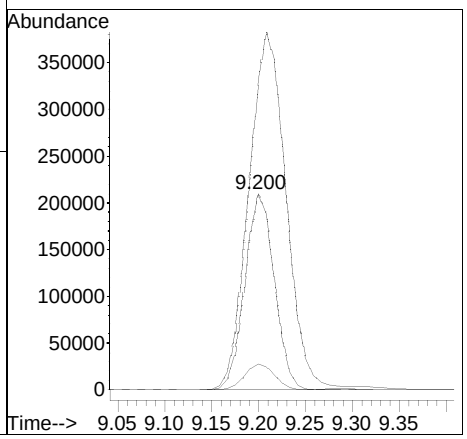


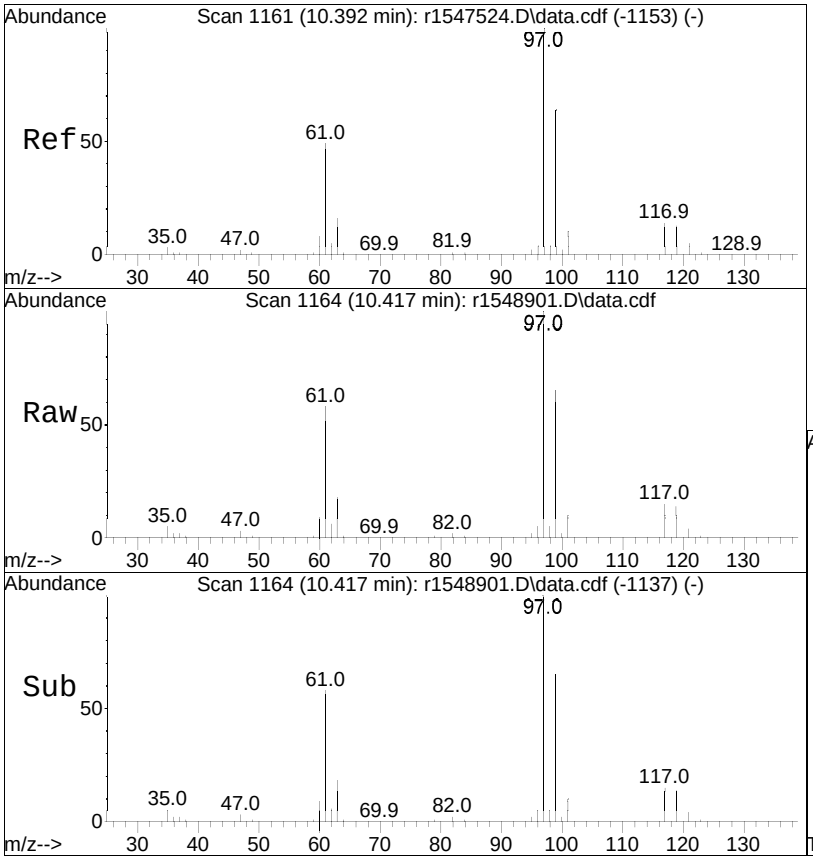


#44
hexane
Concen: 11.99 ppbV
RT: 9.200 min Scan# 1018
Delta R.T. 0.025 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 57 Resp: 456218

Ion	Ratio	Lower	Upper
57	100		
43	157.8	124.6	186.8
86	13.1	11.5	17.3

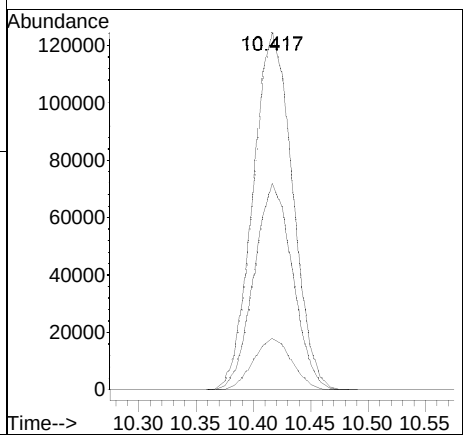


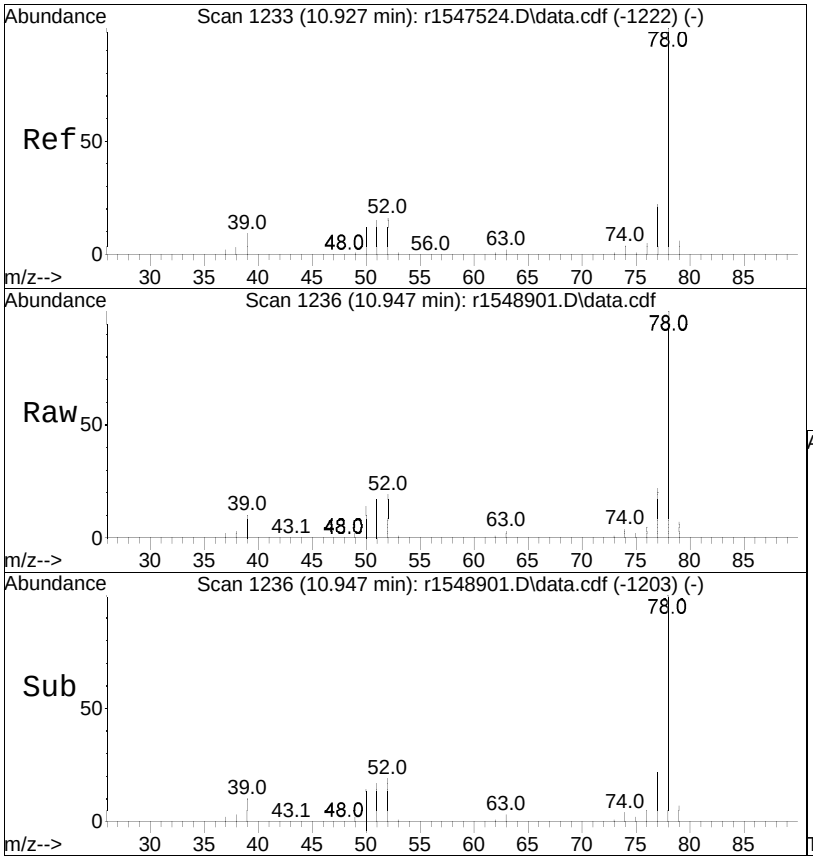


#48
1,1,1-trichloroethane
Concen: 10.11 ppbV
RT: 10.417 min Scan# 1164
Delta R.T. 0.025 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 97 Resp: 296596

Ion	Ratio	Lower	Upper
97	100		
61	57.7	38.8	58.2
119	14.3	10.6	15.8

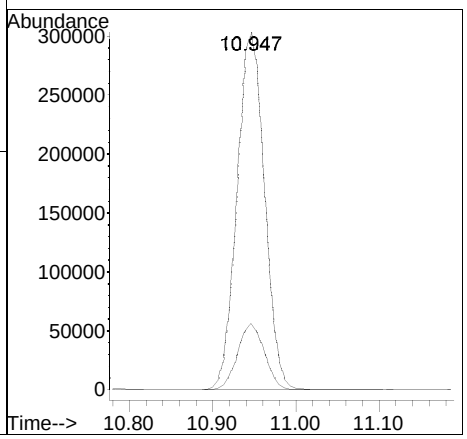


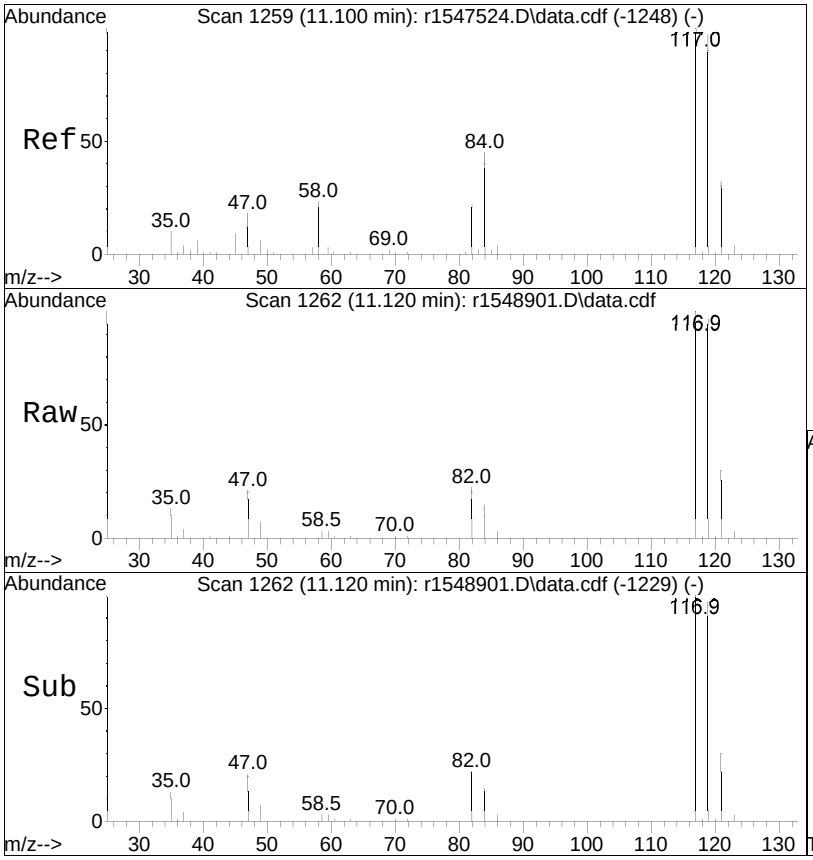


#50
benzene
Concen: 10.26 ppbV
RT: 10.947 min Scan# 1236
Delta R.T. 0.020 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 78 Resp: 688740

Ion	Ratio	Lower	Upper
78	100		
52	18.6	13.0	19.4

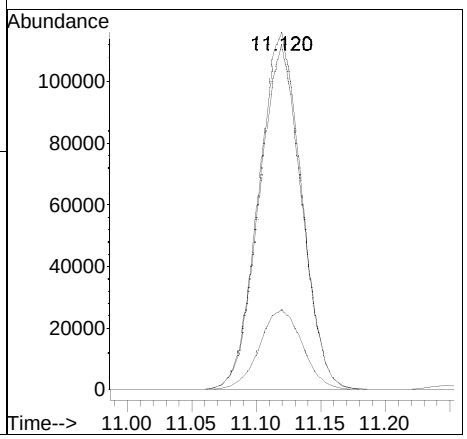


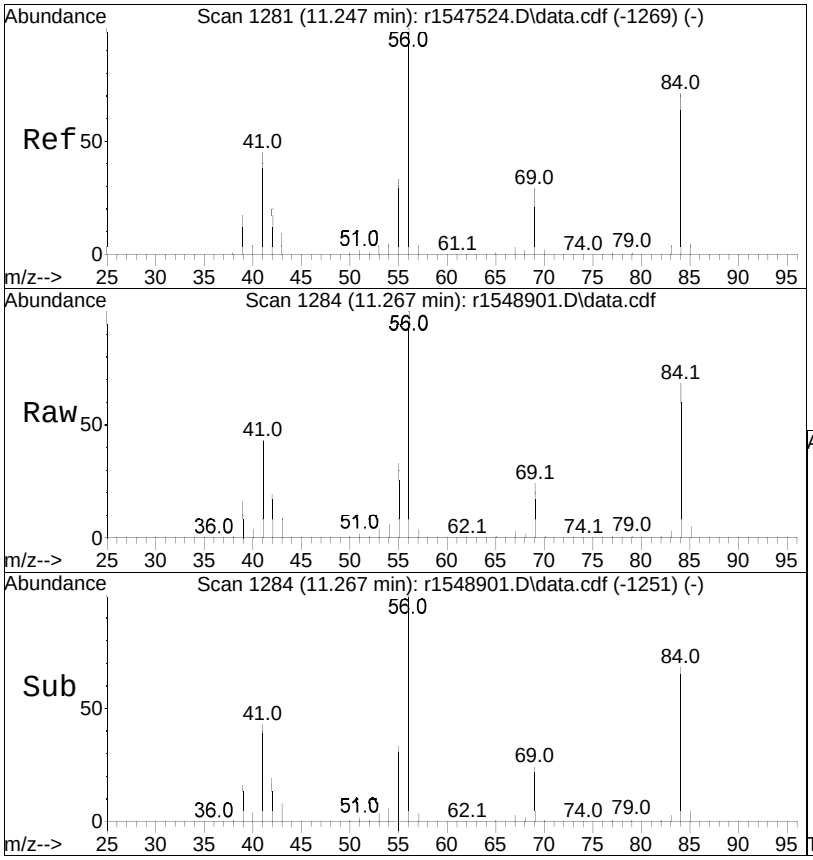


#52
carbon tetrachloride
Concen: 10.95 ppbV
RT: 11.120 min Scan# 1262
Delta R.T. 0.020 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion:117 Resp: 264629

Ion	Ratio	Lower	Upper
117	100		
119	96.6	77.4	116.2
82	22.4	17.9	26.9

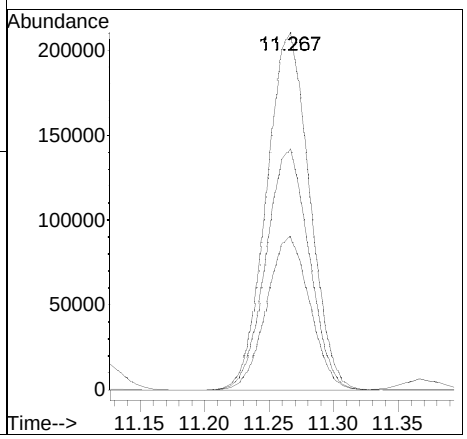


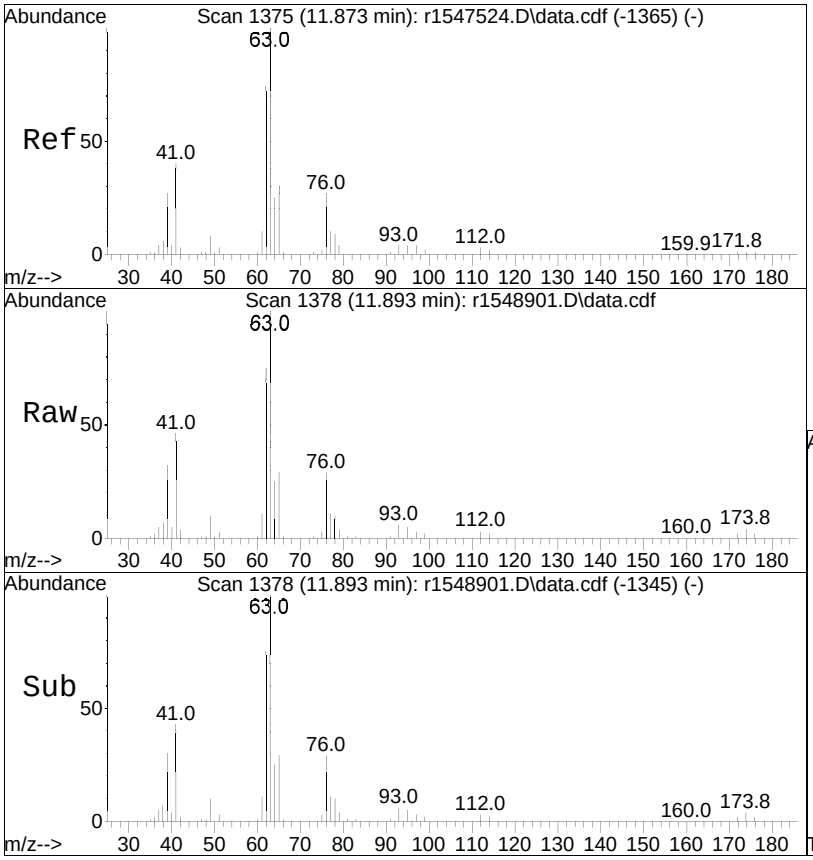


#53
cyclohexane
Concen: 11.90 ppbV
RT: 11.267 min Scan# 1284
Delta R.T. 0.020 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 56 Resp: 485341

Ion	Ratio	Lower	Upper
56	100		
84	67.7	57.2	85.8
41	43.1	35.9	53.9

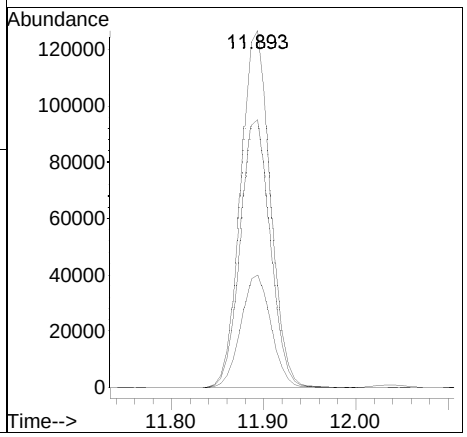


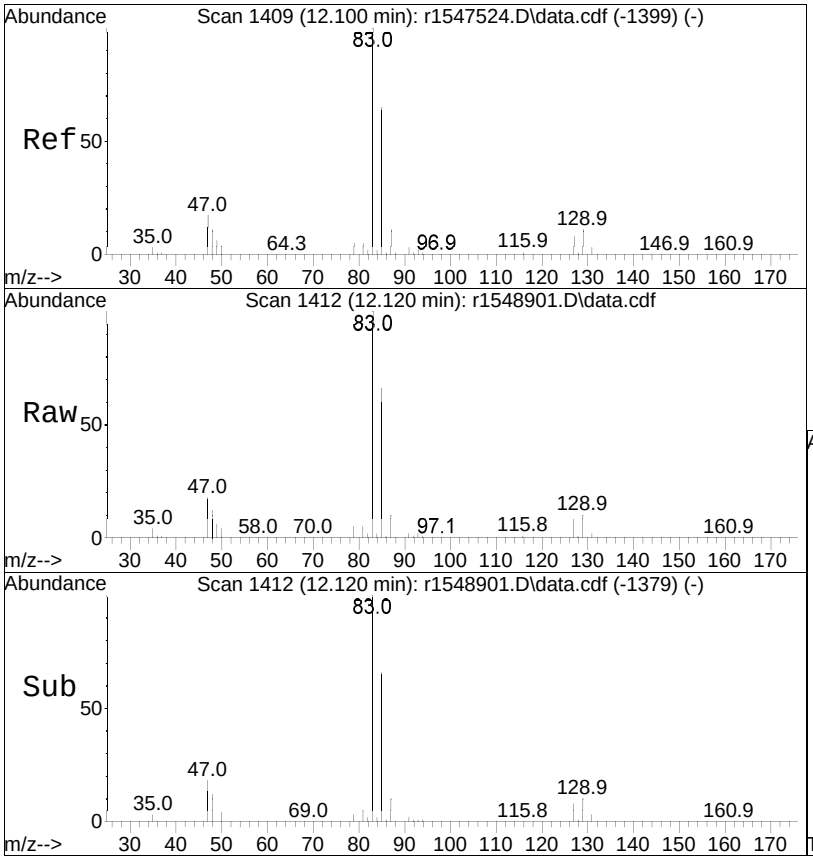


#56
1,2-dichloropropane
Concen: 10.15 ppbV
RT: 11.893 min Scan# 1378
Delta R.T. 0.020 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 63 Resp: 283328

Ion	Ratio	Lower	Upper
63	100		
62	75.3	59.5	89.3
39	31.7	21.4	32.2

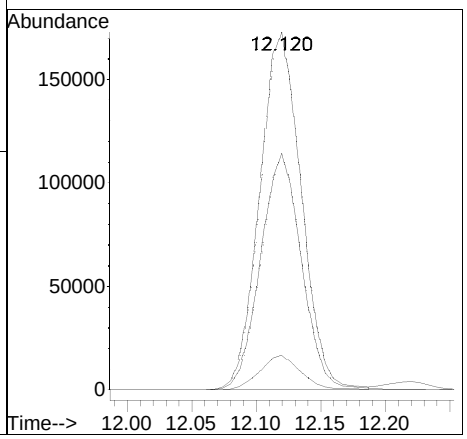


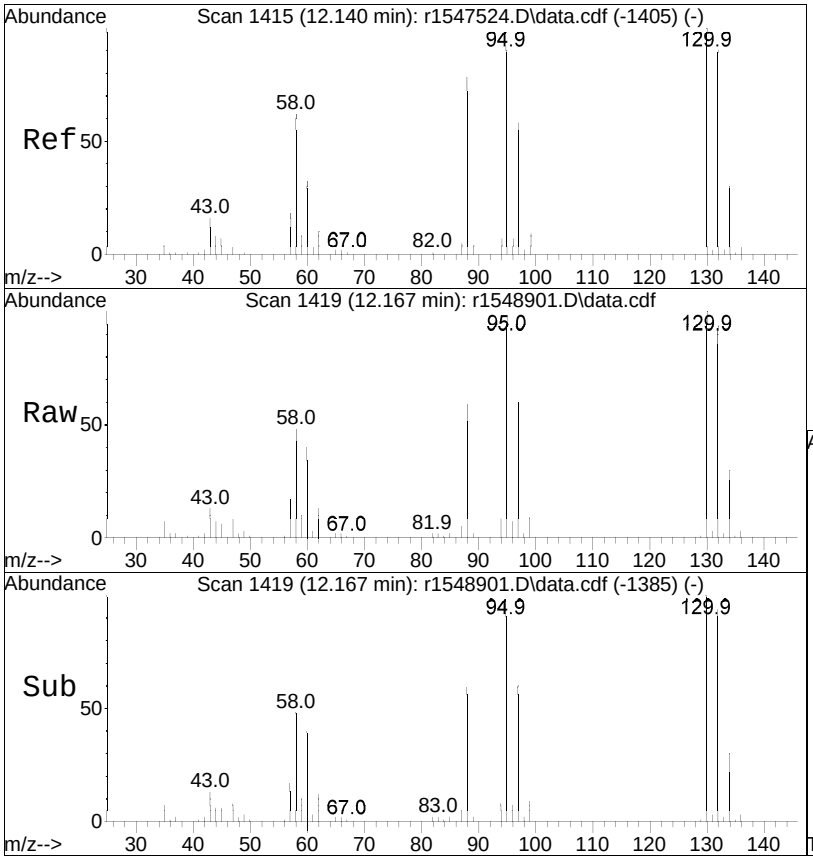


#57
bromodichloromethane
Concen: 11.97 ppbV
RT: 12.120 min Scan# 1412
Delta R.T. 0.020 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 83 Resp: 382900

Ion	Ratio	Lower	Upper
83	100		
85	66.3	52.1	78.1
129	9.6	8.5	12.7

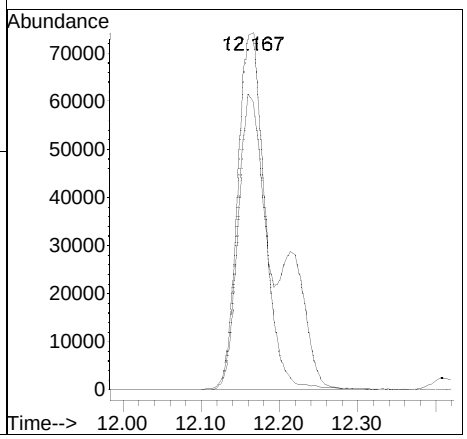


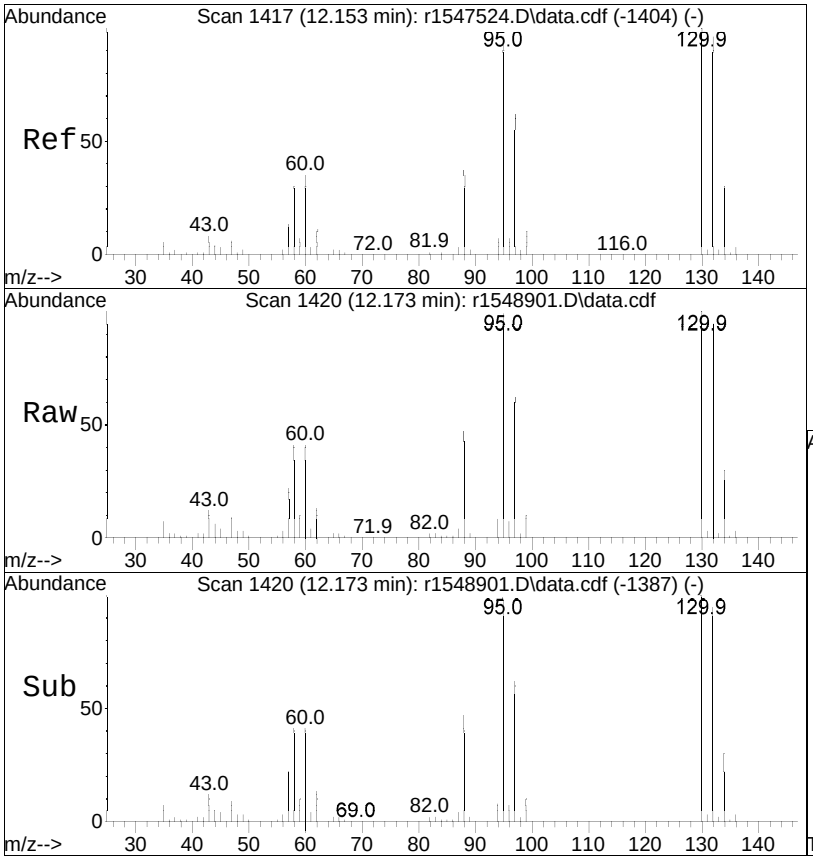


#58
1,4-dioxane
Concen: 11.54 ppbV
RT: 12.167 min Scan# 1419
Delta R.T. 0.027 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 88 Resp: 177587

Ion	Ratio	Lower	Upper
88	100		
58	80.5	63.4	95.0

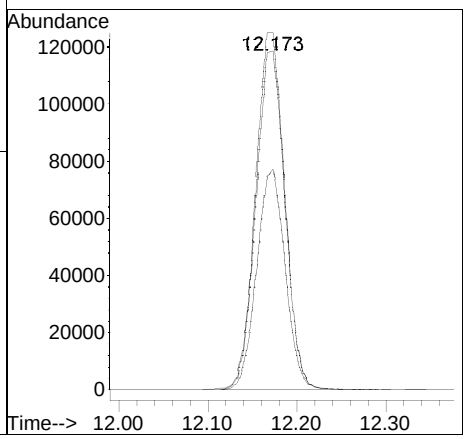


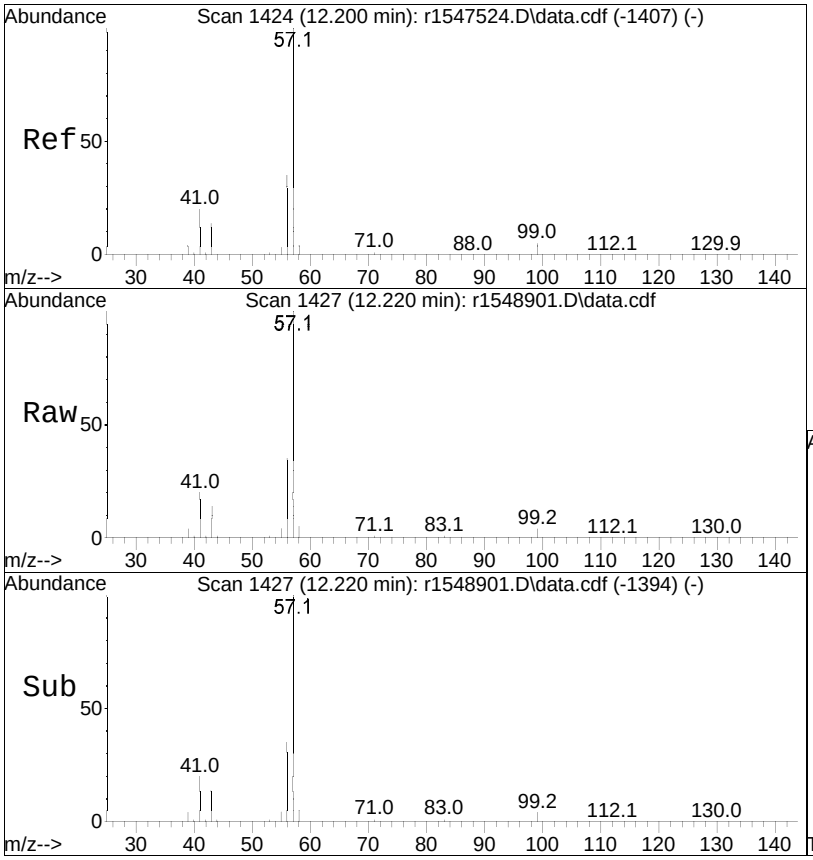


#59
trichloroethene
Concen: 9.81 ppbV
RT: 12.173 min Scan# 1420
Delta R.T. 0.020 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion:130 Resp: 281672

Ion	Ratio	Lower	Upper
130	100		
132	94.9	76.8	115.2
97	61.8	49.3	73.9

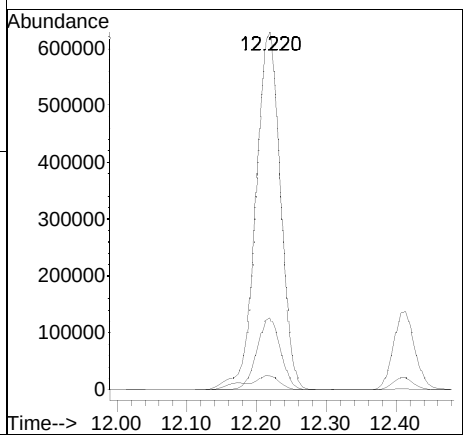


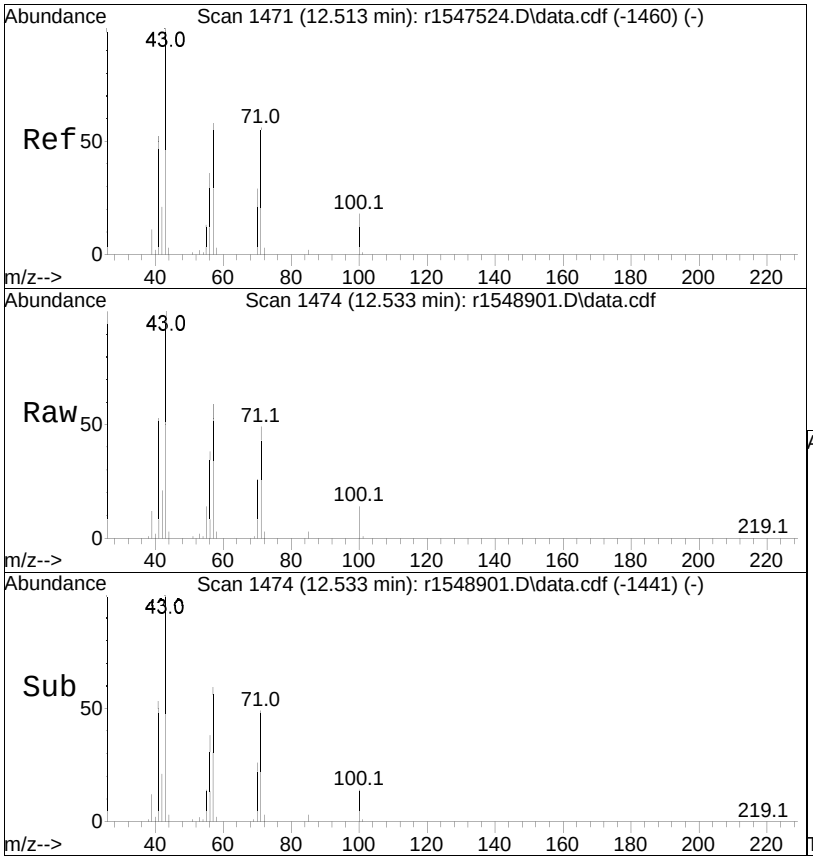


#60
2,2,4-trimethylpentane
Concen: 12.03 ppbV
RT: 12.220 min Scan# 1427
Delta R.T. 0.020 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 57 Resp: 1528986

Ion	Ratio	Lower	Upper
57	100		
99	3.8	4.0	6.0#
41	20.2	16.1	24.1

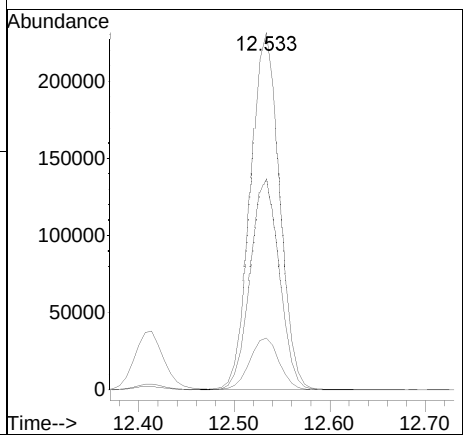


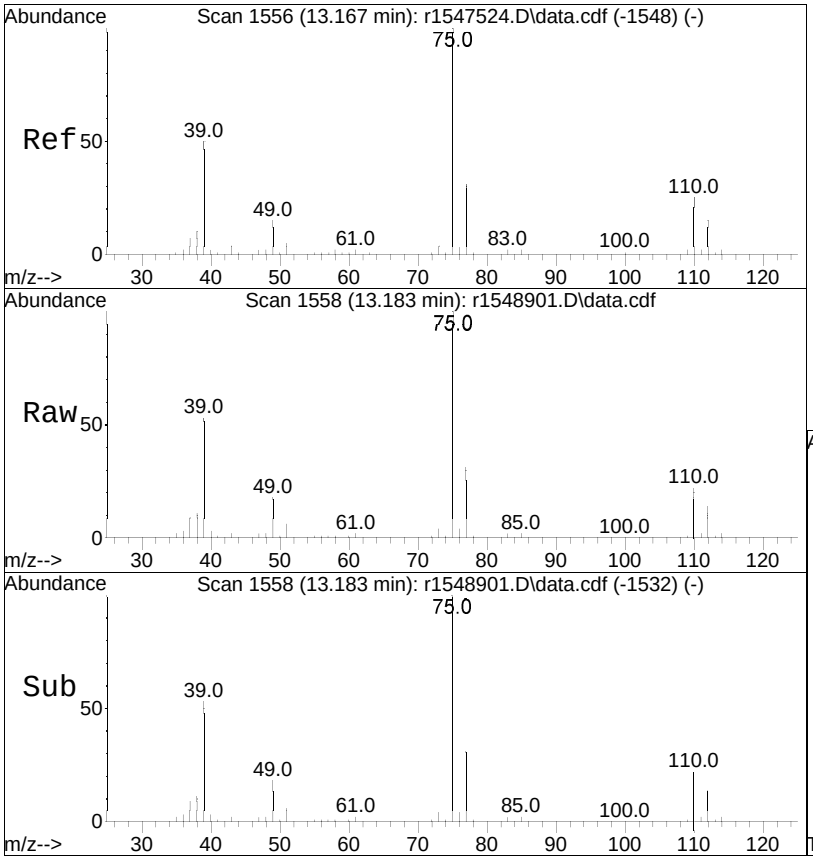


#62
heptane
Concen: 11.54 ppbV
RT: 12.533 min Scan# 1474
Delta R.T. 0.020 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 43 Resp: 488889

Ion	Ratio	Lower	Upper
43	100		
57	59.2	46.6	70.0
100	14.5	14.6	22.0#

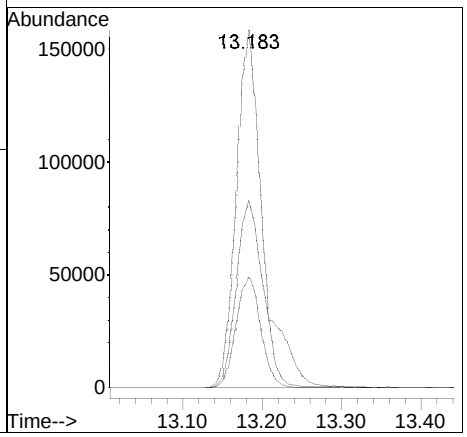


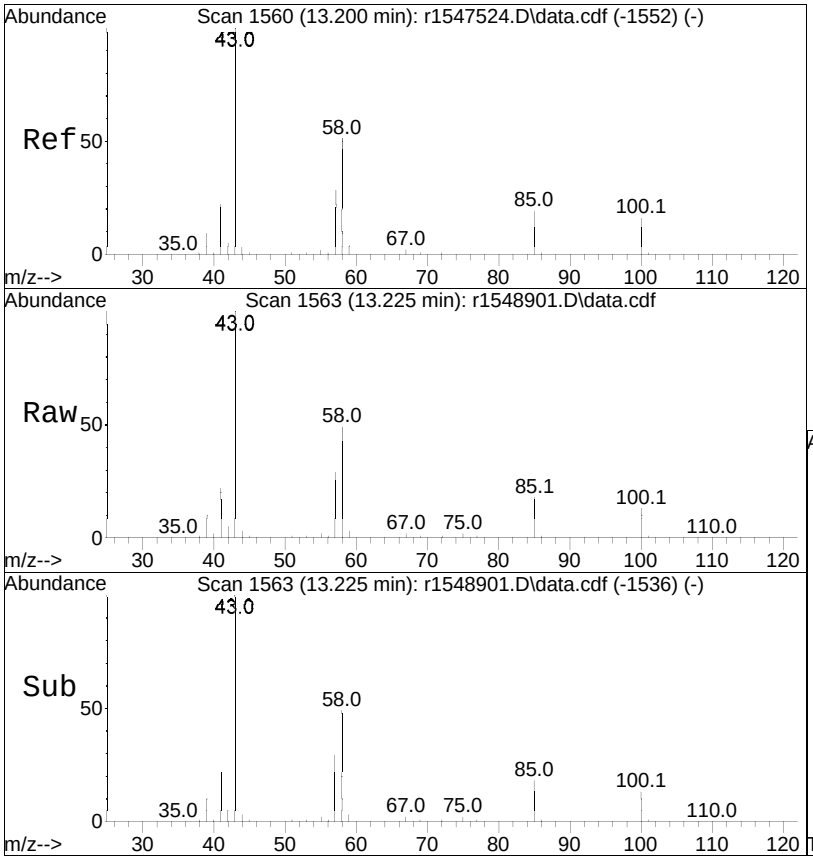


#63
cis-1,3-dichloropropene
Concen: 10.69 ppbV
RT: 13.183 min Scan# 1558
Delta R.T. 0.017 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 75 Resp: 331594

Ion	Ratio	Lower	Upper
75	100		
39	52.5	40.2	60.4
77	31.1	25.0	37.6

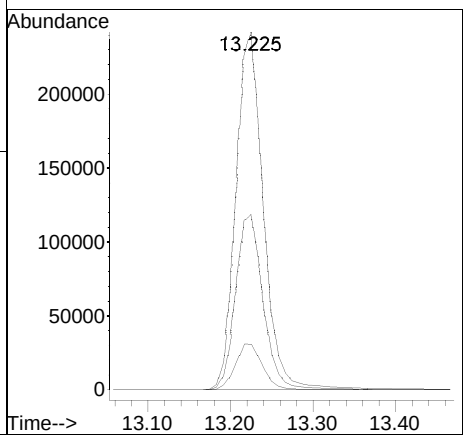


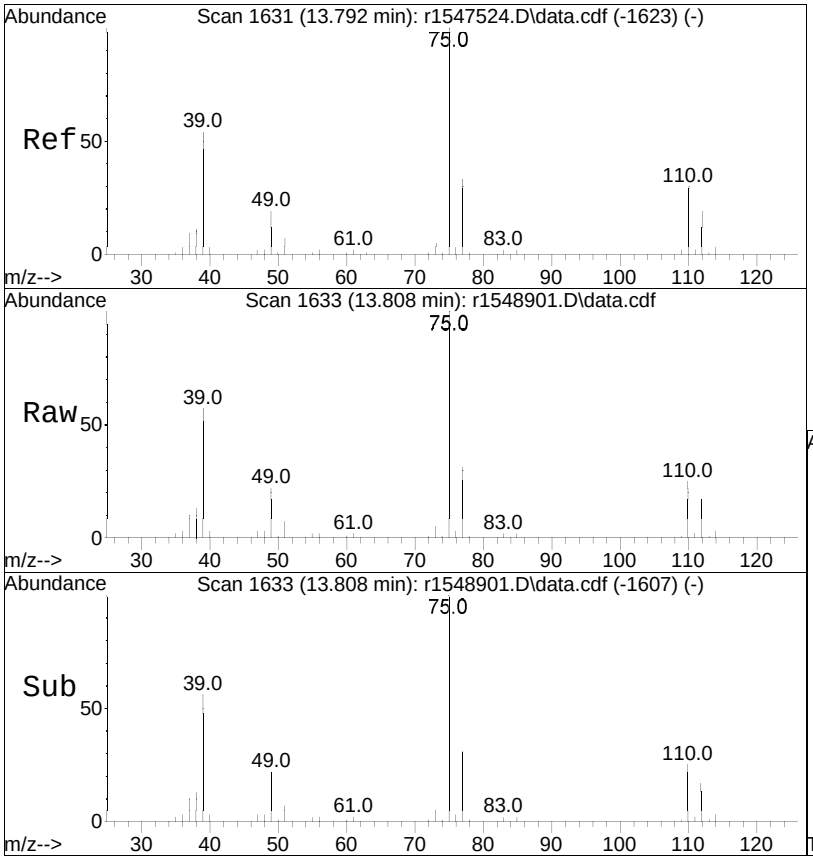


#64
4-methyl-2-pentanone
Concen: 11.49 ppbV
RT: 13.225 min Scan# 1563
Delta R.T. 0.025 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 43 Resp: 554337

Ion	Ratio	Lower	Upper
43	100		
58	49.1	41.0	61.4
100	12.8	13.0	19.6#

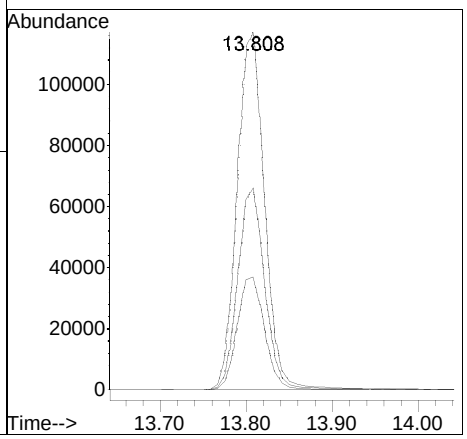


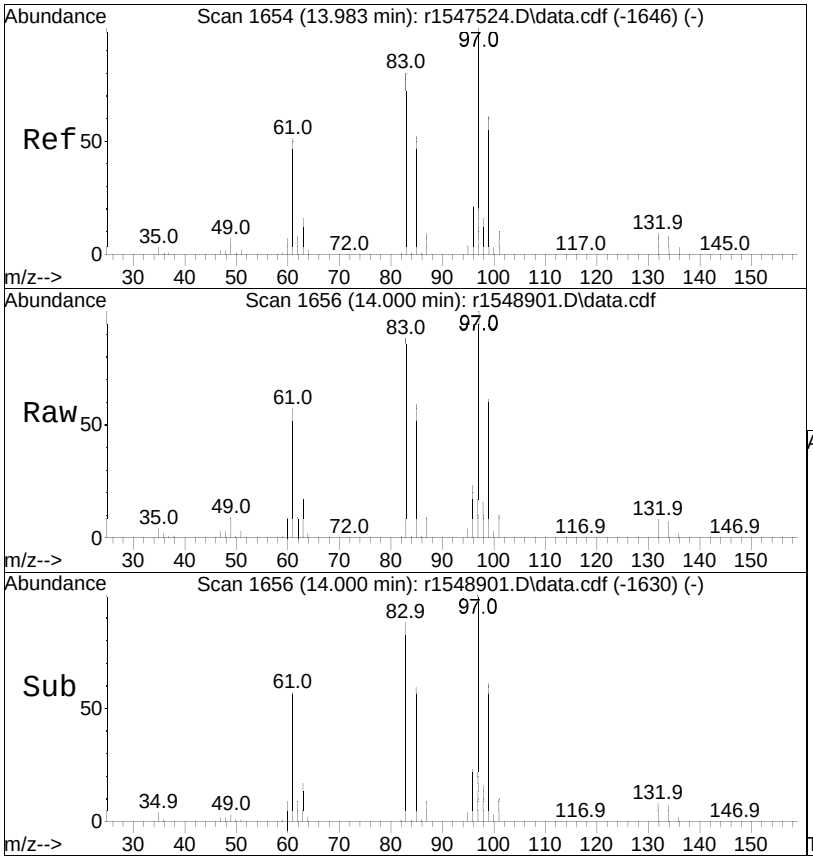


#65
trans-1,3-dichloropropene
Concen: 10.84 ppbV
RT: 13.808 min Scan# 1633
Delta R.T. 0.017 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 75 Resp: 256889

Ion	Ratio	Lower	Upper
75	100		
77	31.5	26.3	39.5
39	56.6	43.0	64.4

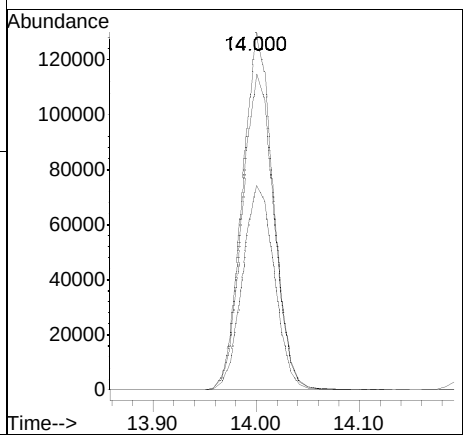


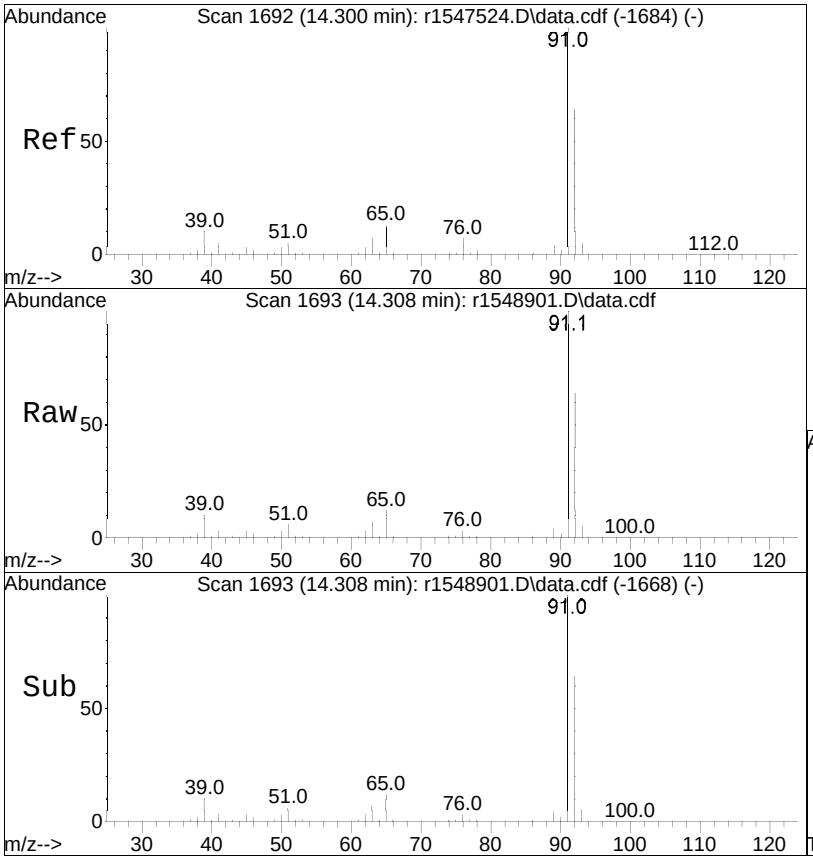


#66
1,1,2-trichloroethane
Concen: 9.71 ppbV
RT: 14.000 min Scan# 1656
Delta R.T. 0.017 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 97 Resp: 269355

Ion	Ratio	Lower	Upper
97	100		
83	88.3	63.8	95.6
61	57.2	41.1	61.7

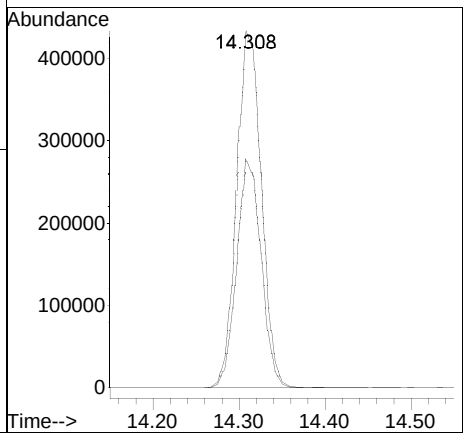


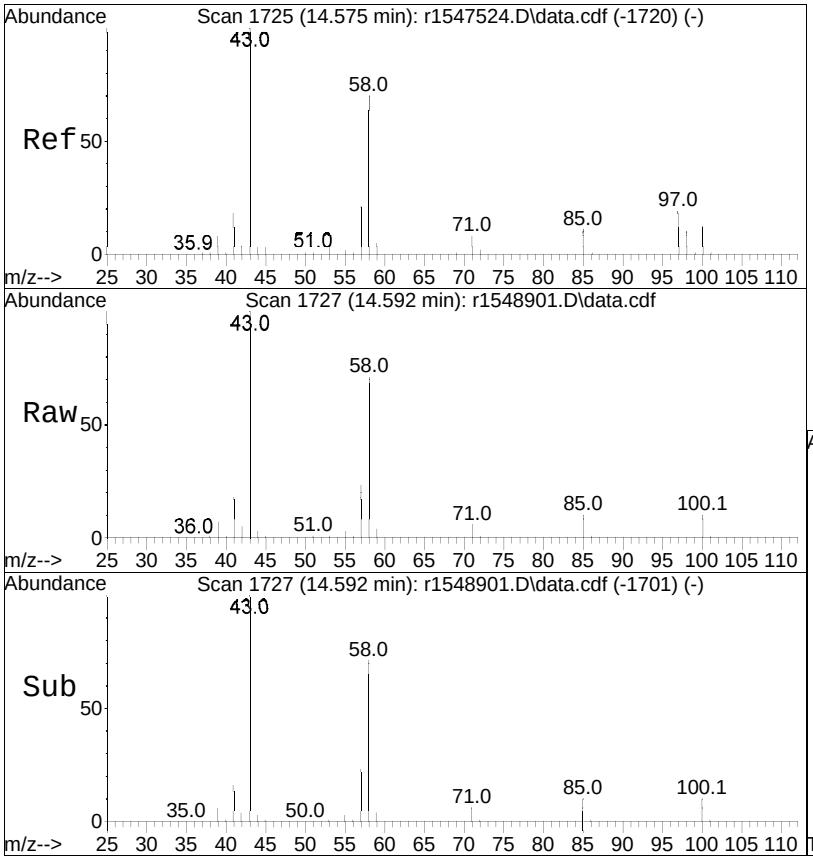


#68
toluene
Concen: 8.31 ppbV
RT: 14.308 min Scan# 1693
Delta R.T. 0.008 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 91 Resp: 864082

Ion	Ratio	Lower	Upper
91	100		
92	64.2	51.6	77.4

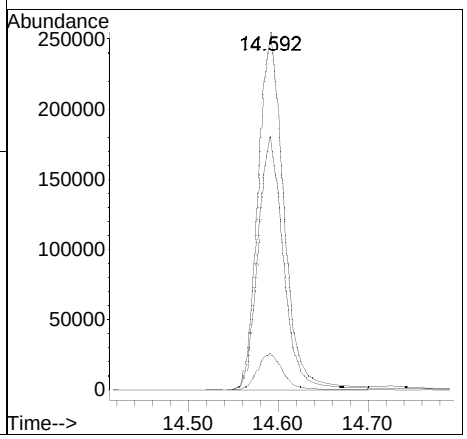


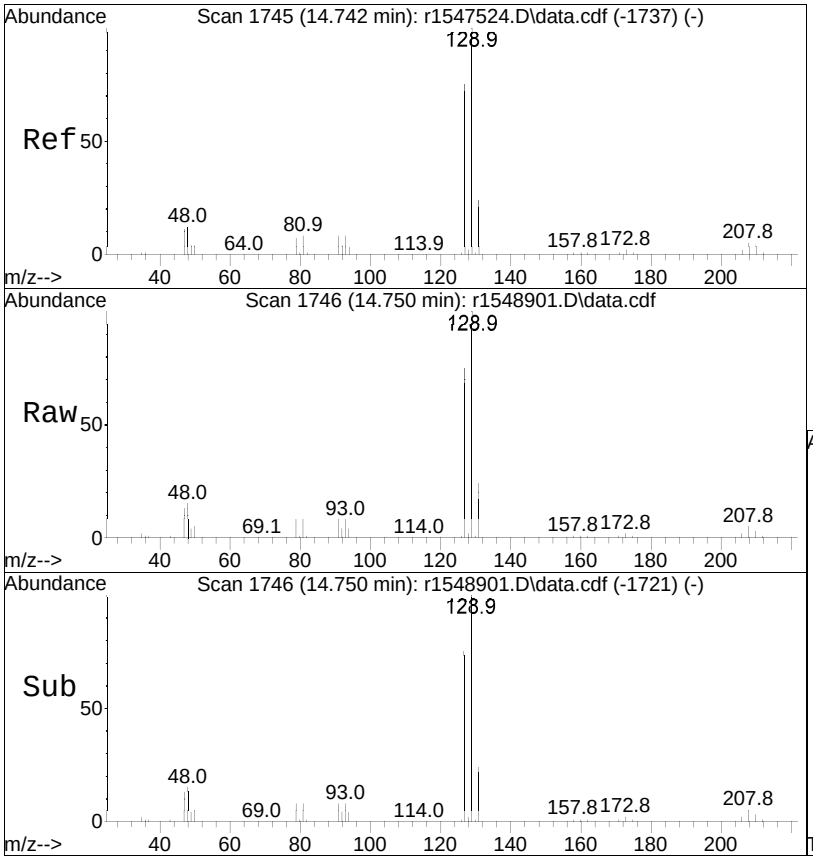


#72
2-hexanone
Concen: 10.01 ppbV
RT: 14.592 min Scan# 1727
Delta R.T. 0.017 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 43 Resp: 502207

Ion	Ratio	Lower	Upper
43	100		
58	71.2	56.3	84.5
100	10.3	11.4	17.0#

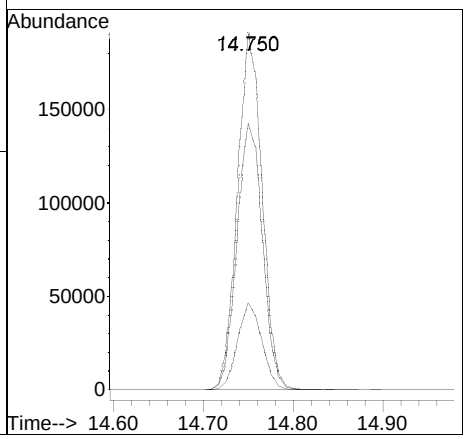


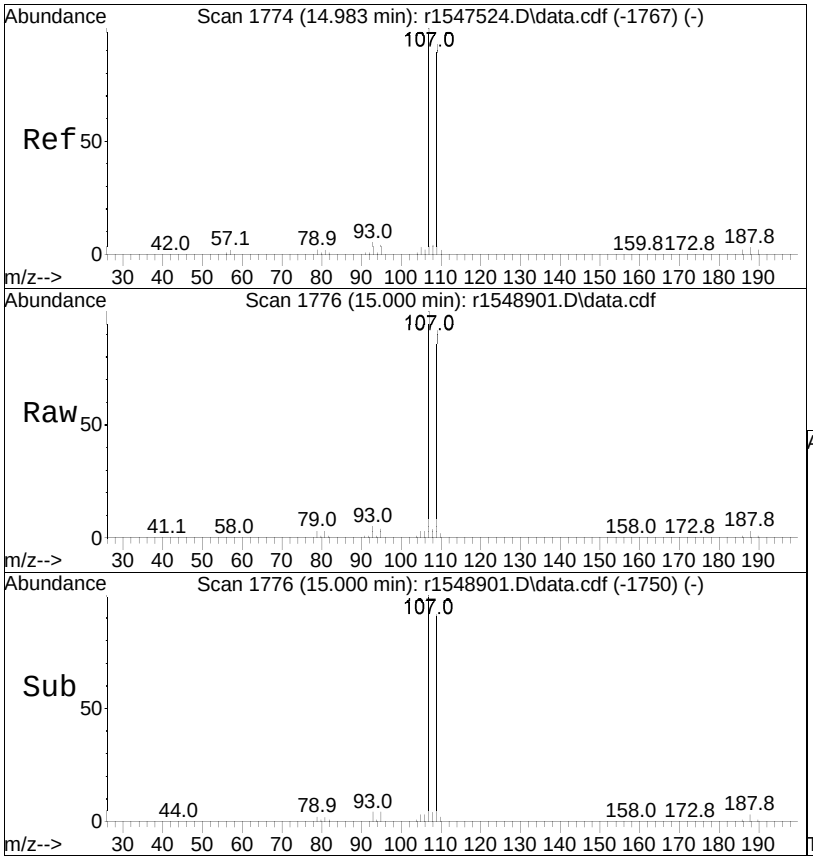


#74
dibromochloromethane
Concen: 8.97 ppbV
RT: 14.750 min Scan# 1746
Delta R.T. 0.008 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion:129 Resp: 360831

Ion	Ratio	Lower	Upper
129	100		
127	74.7	60.2	90.2
131	24.4	19.5	29.3

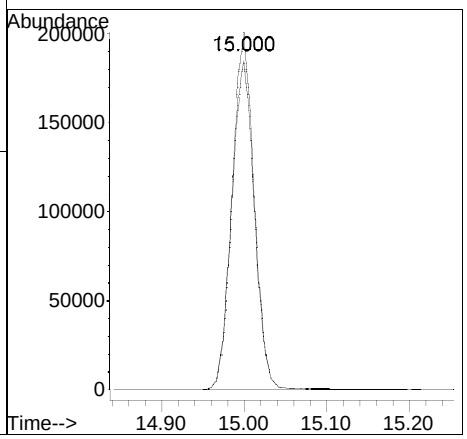


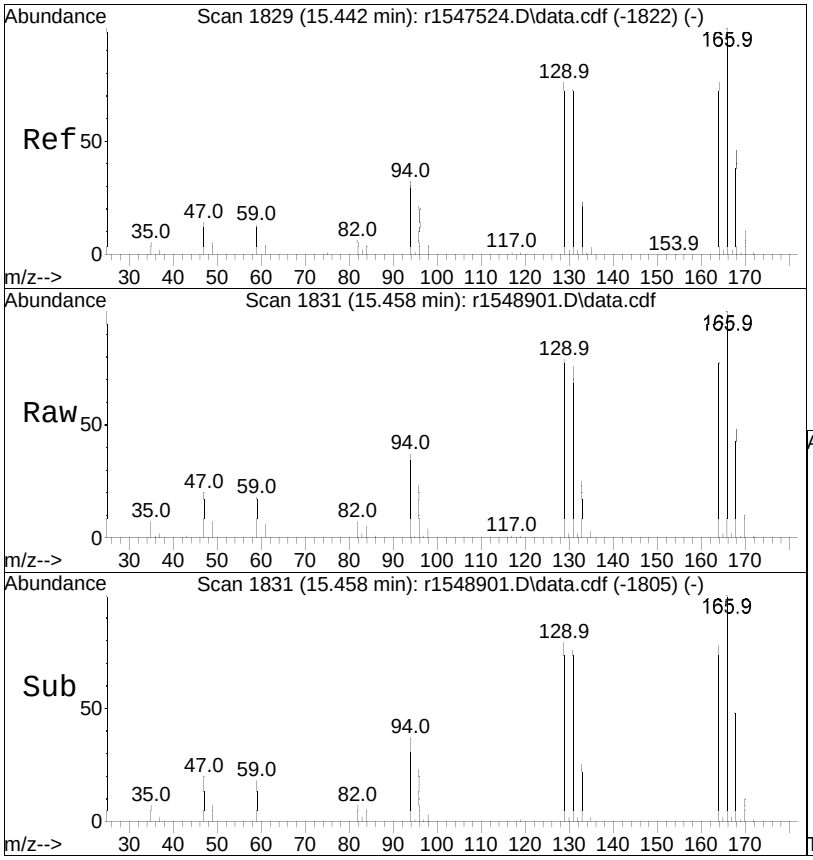


#75
1,2-dibromoethane
Concen: 8.03 ppbV
RT: 15.000 min Scan# 1776
Delta R.T. 0.017 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion:107 Resp: 367885

Ion	Ratio	Lower	Upper
107	100		
109	92.3	74.6	112.0

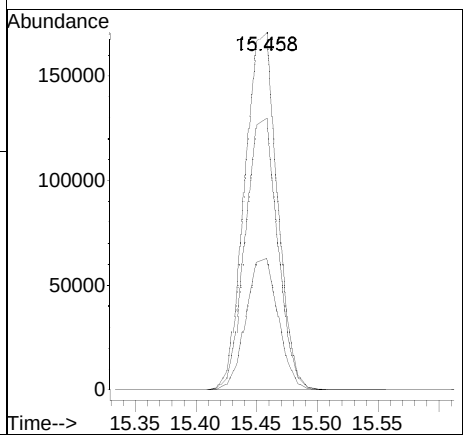


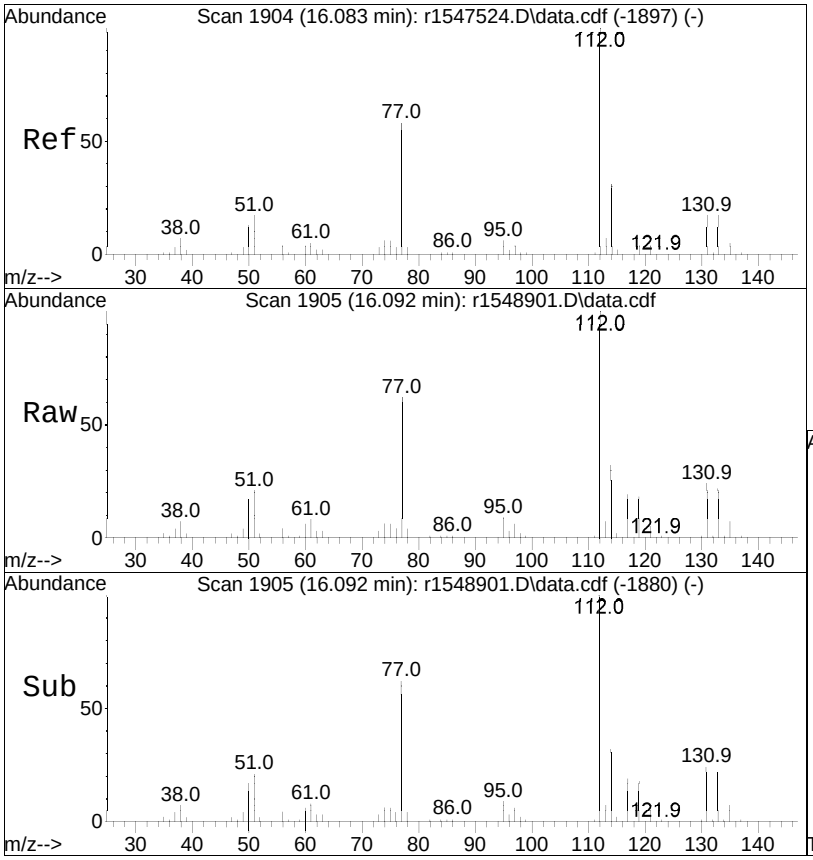


#78
tetrachloroethene
Concen: 7.73 ppbV
RT: 15.458 min Scan# 1831
Delta R.T. 0.017 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion:166 Resp: 316147

Ion	Ratio	Lower	Upper
166	100		
131	76.0	58.3	87.5
94	36.9	25.8	38.6

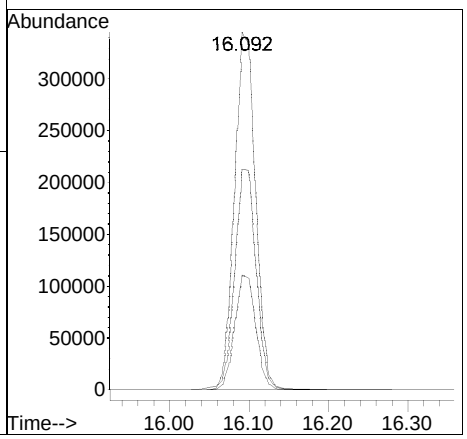


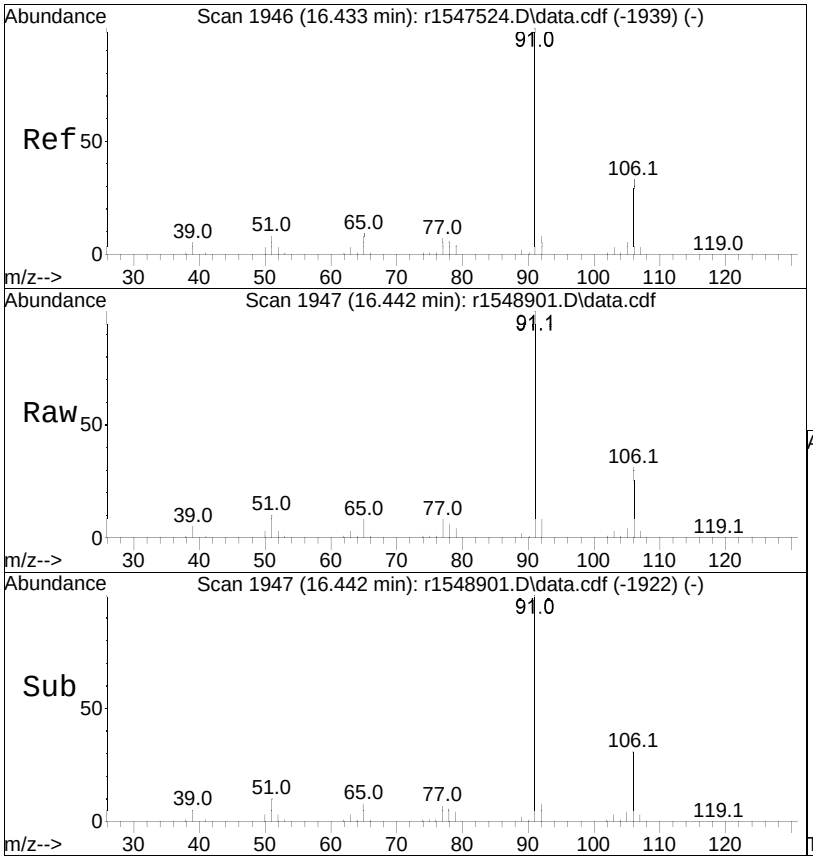


#80
chlorobenzene
Concen: 8.23 ppbV
RT: 16.092 min Scan# 1905
Delta R.T. 0.008 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion:112 Resp: 632323

Ion	Ratio	Lower	Upper
112	100		
114	32.2	25.0	37.6
77	61.9	46.3	69.5

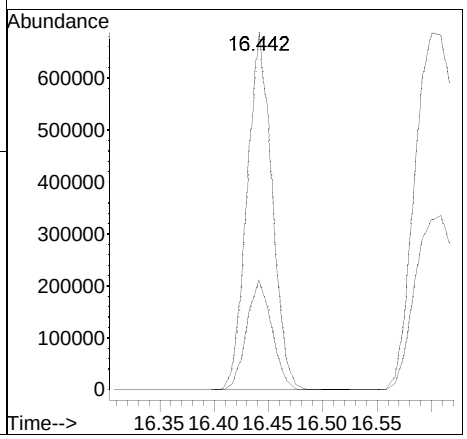


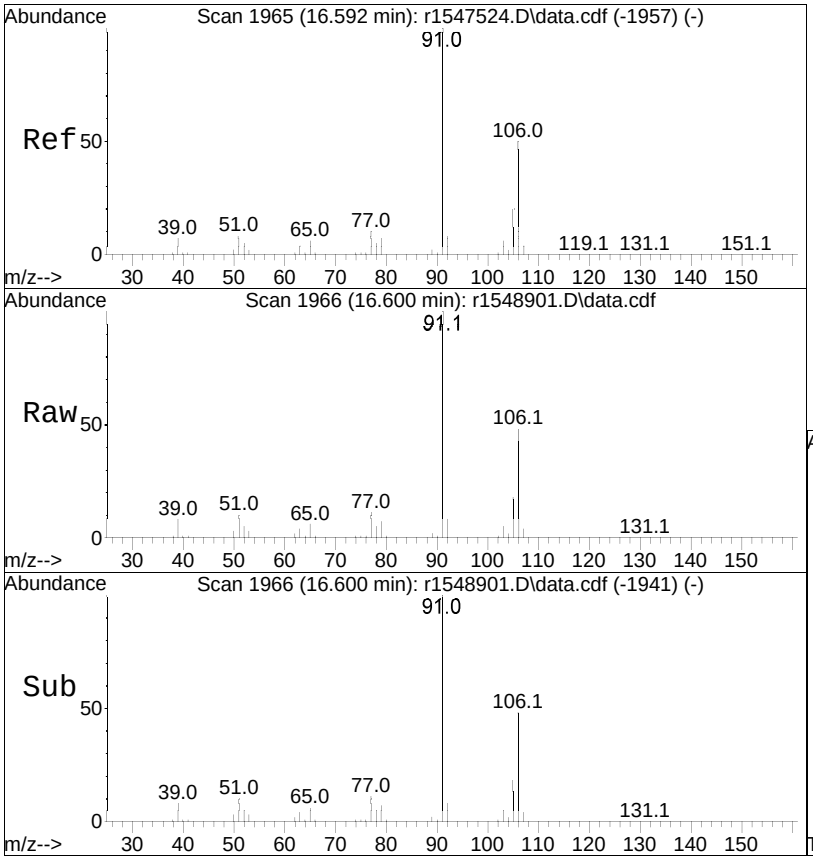


#81
ethylbenzene
Concen: 8.31 ppbV
RT: 16.442 min Scan# 1947
Delta R.T. 0.008 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 91 Resp: 1107291

Ion	Ratio	Lower	Upper
91	100		
106	30.7	26.1	39.1

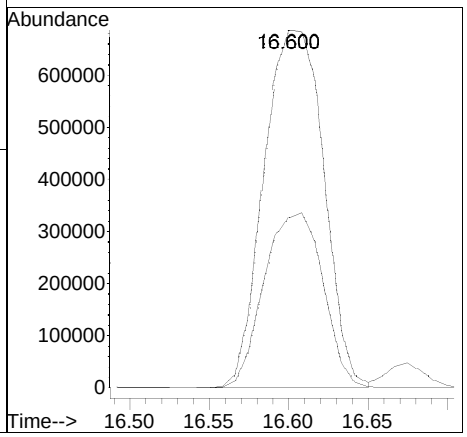


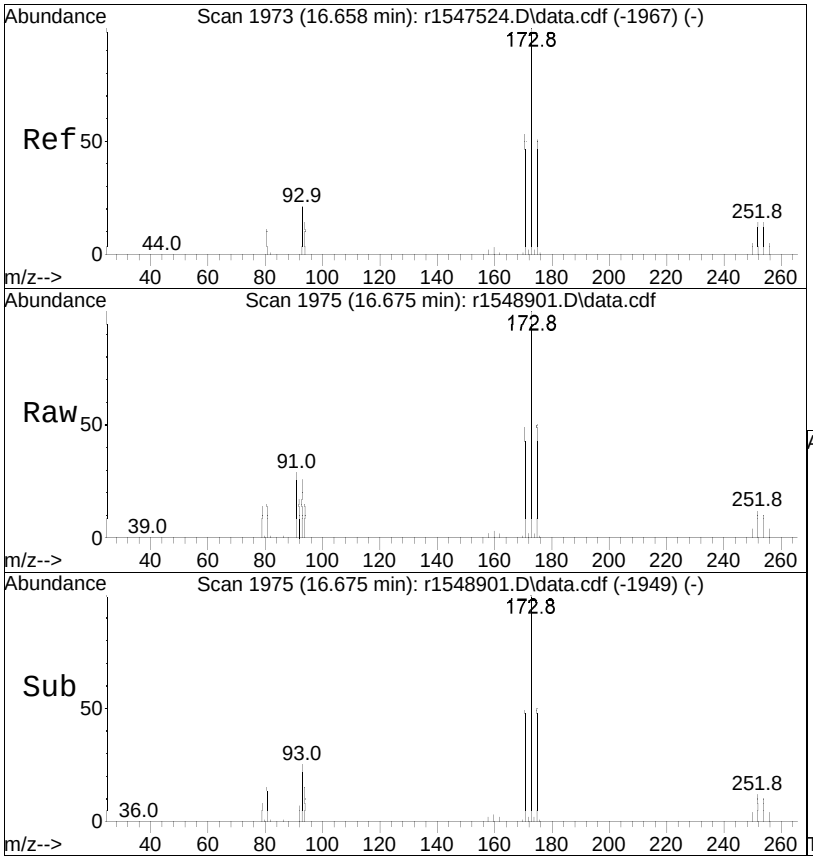


#83
m+p-xylene
Concen: 17.11 ppbV
RT: 16.600 min Scan# 1966
Delta R.T. 0.008 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 91 Resp: 1784863

Ion	Ratio	Lower	Upper
91	100		
106	47.6	40.1	60.1

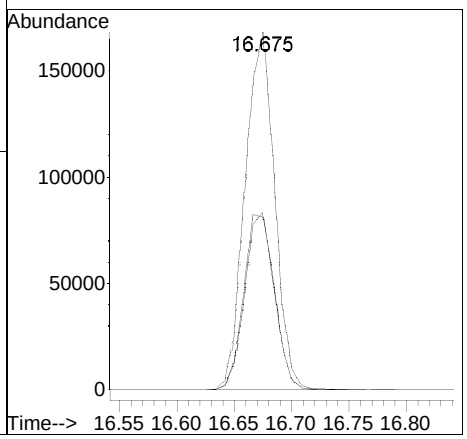


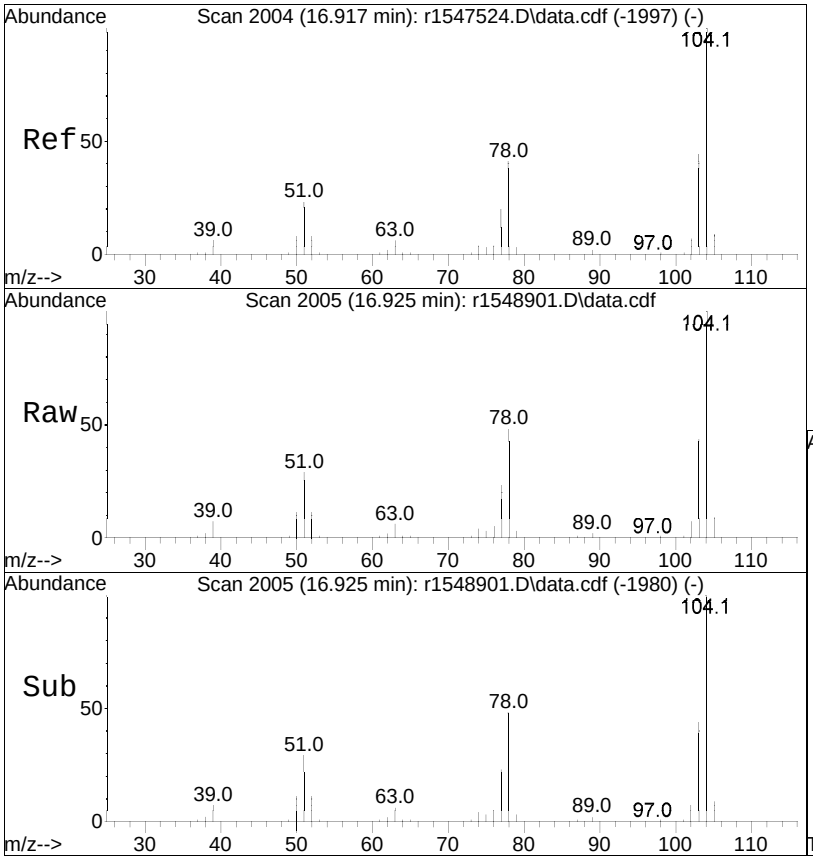


#84
bromoform
Concen: 8.36 ppbV
RT: 16.675 min Scan# 1975
Delta R.T. 0.017 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion:173 Resp: 298237

Ion	Ratio	Lower	Upper
173	100		
175	49.8	40.6	60.8
171	48.5	42.4	63.6

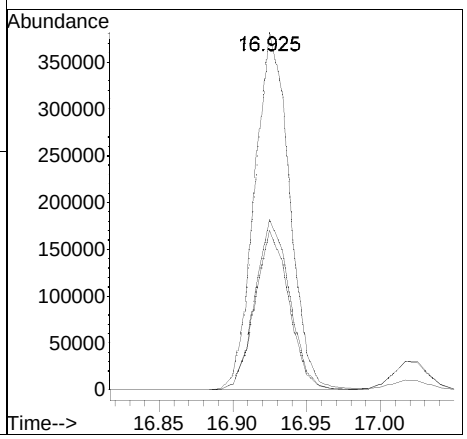


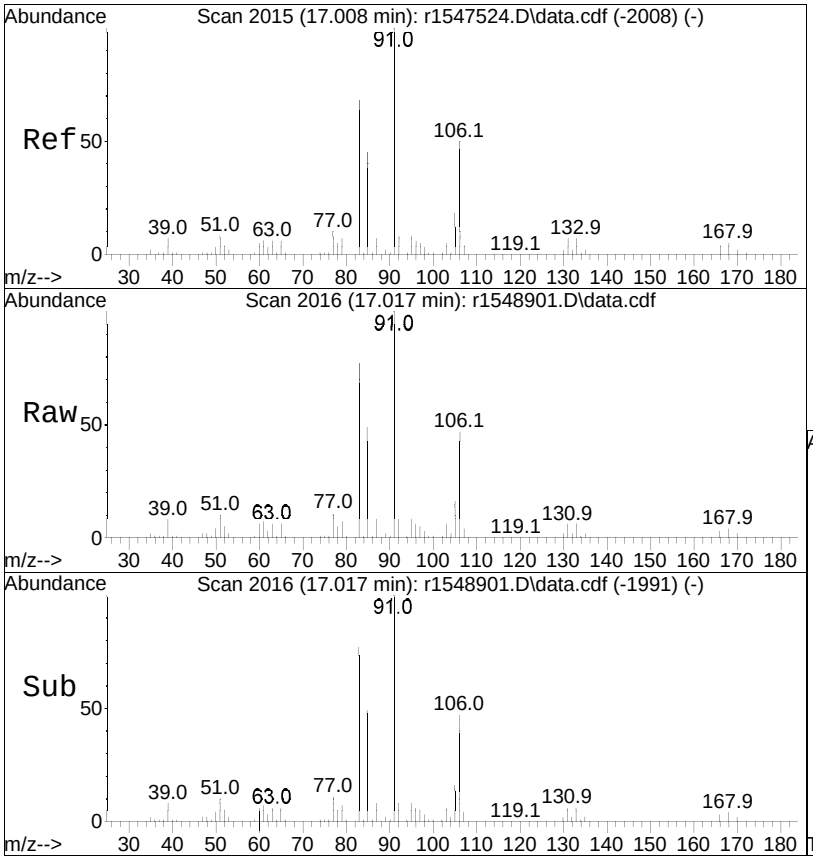


#85
styrene
Concen: 7.61 ppbV
RT: 16.925 min Scan# 2005
Delta R.T. 0.008 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion:104 Resp: 624874

Ion	Ratio	Lower	Upper
104	100		
103	44.5	35.2	52.8
78	47.6	32.6	48.8

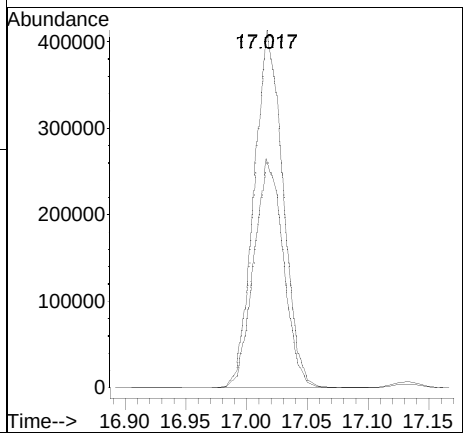


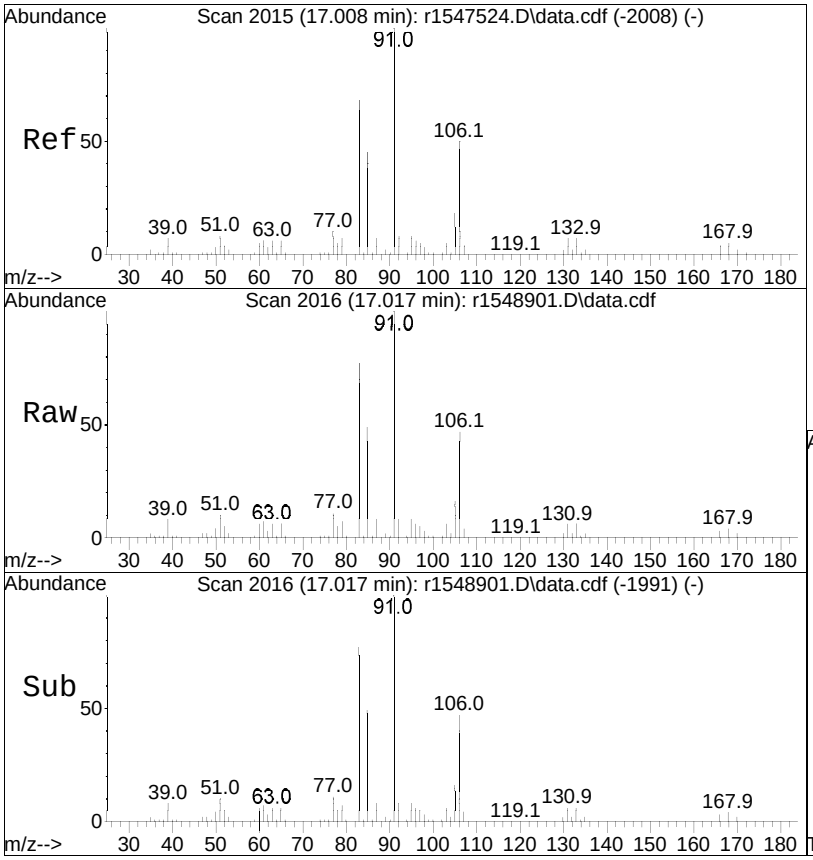


#86
1,1,2,2-tetrachloroethane
Concen: 9.52 ppbV
RT: 17.017 min Scan# 2016
Delta R.T. 0.008 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 83 Resp: 679798

Ion	Ratio	Lower	Upper
83	100		
85	64.2	53.7	80.5

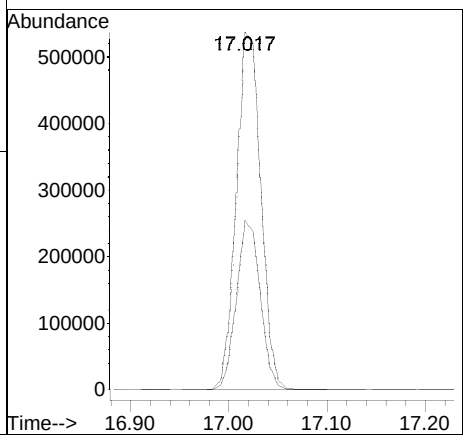


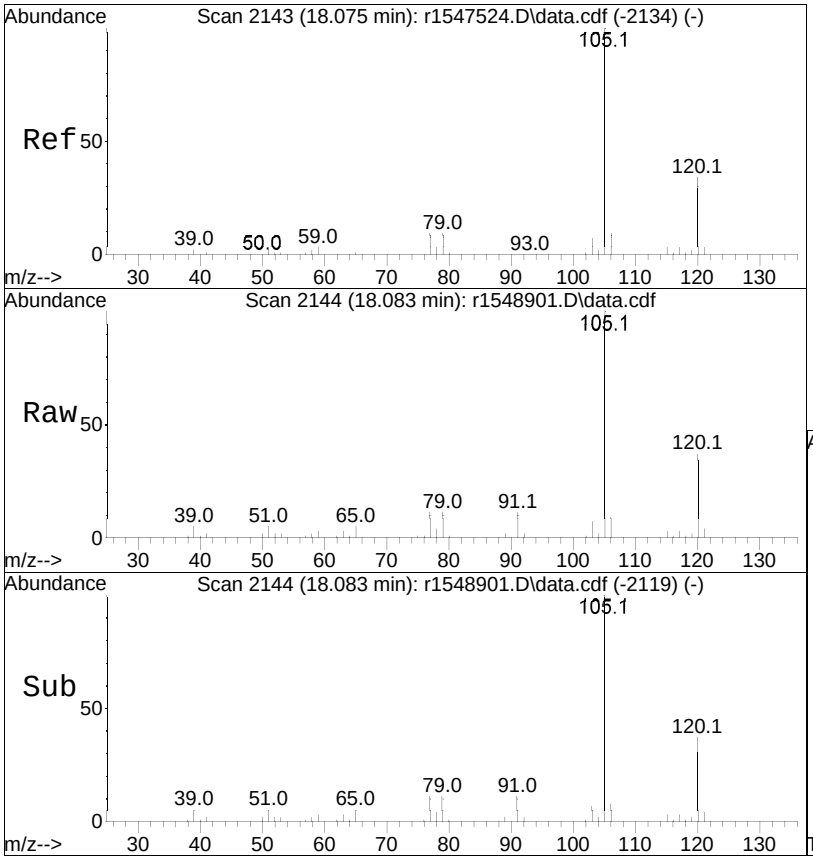


#87
o-xylene
Concen: 8.85 ppbV
RT: 17.017 min Scan# 2016
Delta R.T. 0.008 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 91 Resp: 922156

Ion	Ratio	Lower	Upper
91	100		
106	47.4	39.6	59.4

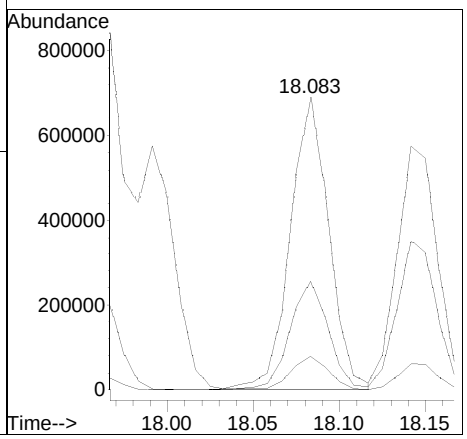


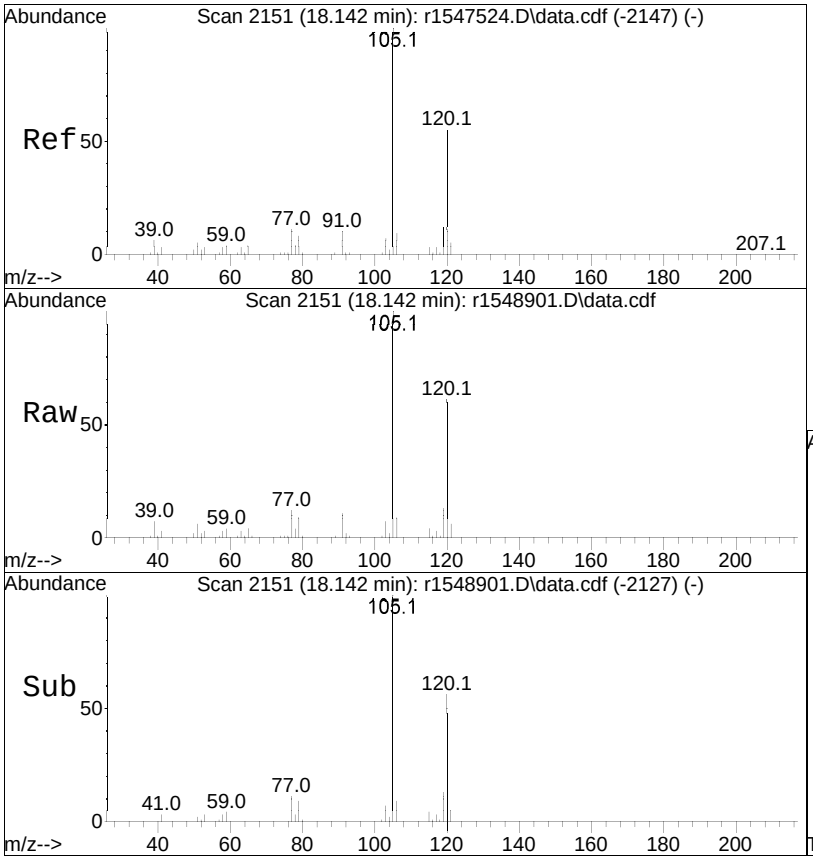


#96
4-ethyl toluene
Concen: 7.82 ppbV
RT: 18.083 min Scan# 2144
Delta R.T. 0.008 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion:105 Resp: 1075010

Ion	Ratio	Lower	Upper
105	100		
120	37.2	27.2	40.8
91	11.2	7.9	11.9

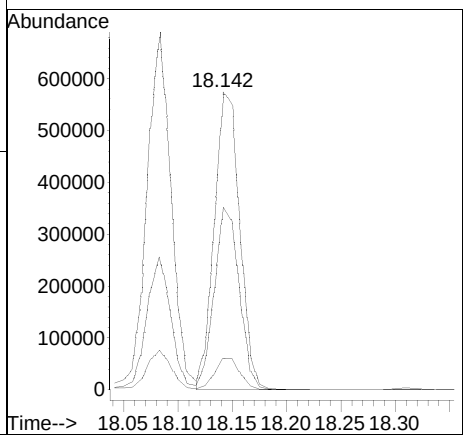


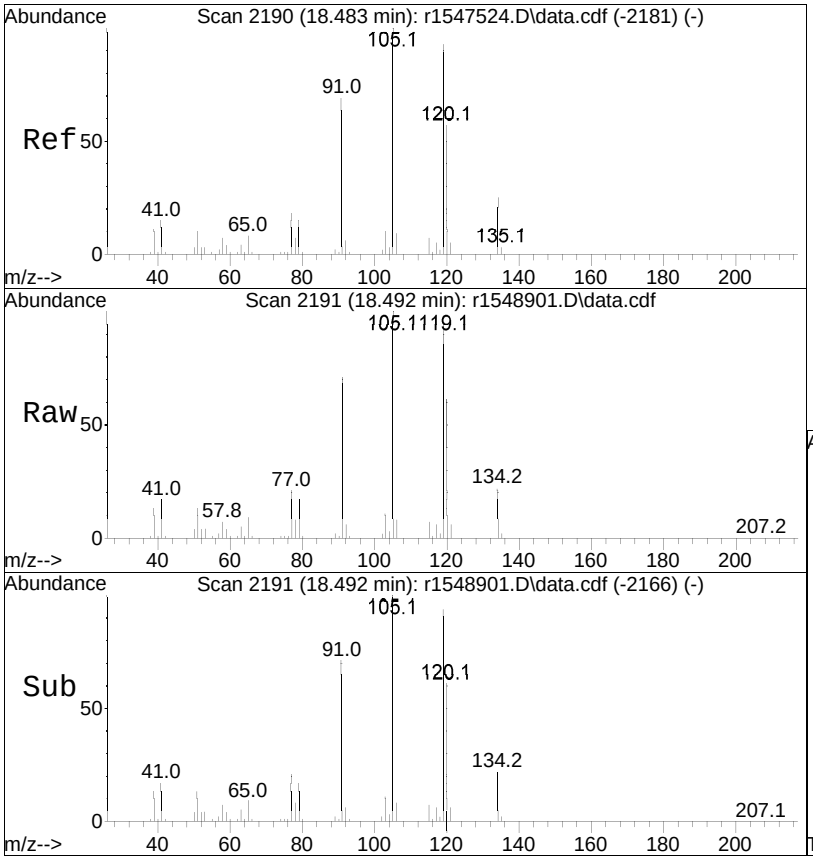


#97
1,3,5-trimethylbenzene
Concen: 7.84 ppbV
RT: 18.142 min Scan# 2151
Delta R.T. 0.000 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion:105 Resp: 1042263

Ion	Ratio	Lower	Upper
105	100		
120	61.3	44.2	66.2
91	10.6	8.0	12.0

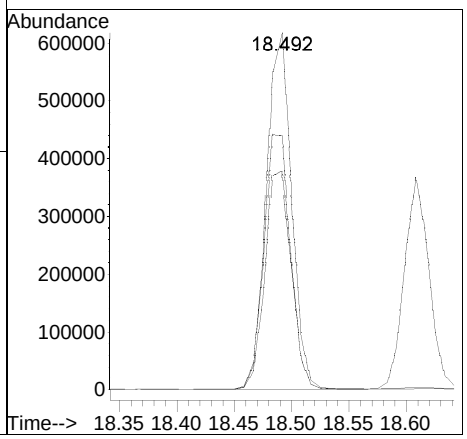


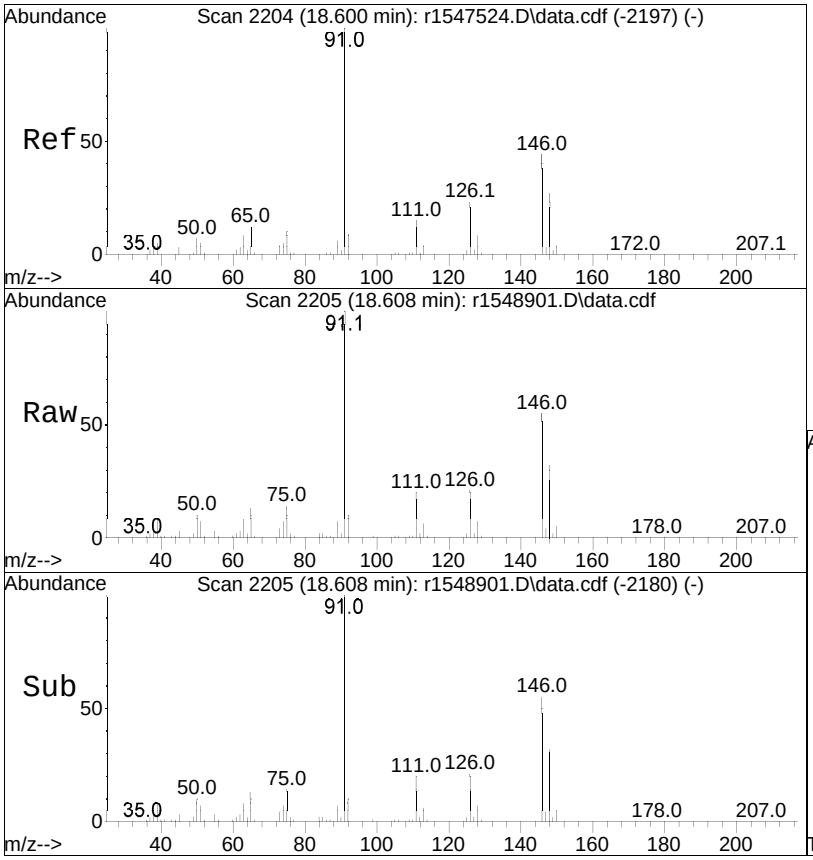


#99
1,2,4-trimethylbenzene
Concen: 8.36 ppbV
RT: 18.492 min Scan# 2191
Delta R.T. 0.008 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion:105 Resp: 946257

Ion	Ratio	Lower	Upper
105	100		
120	61.2	45.4	68.2
91	71.0	55.0	82.6

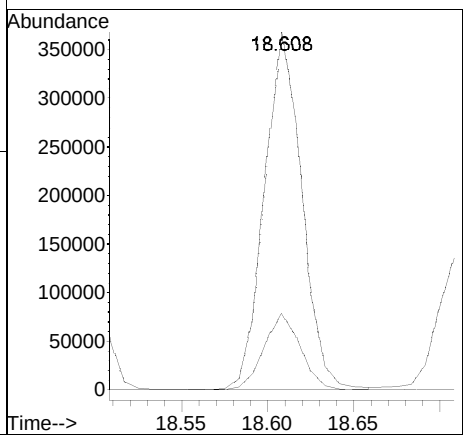


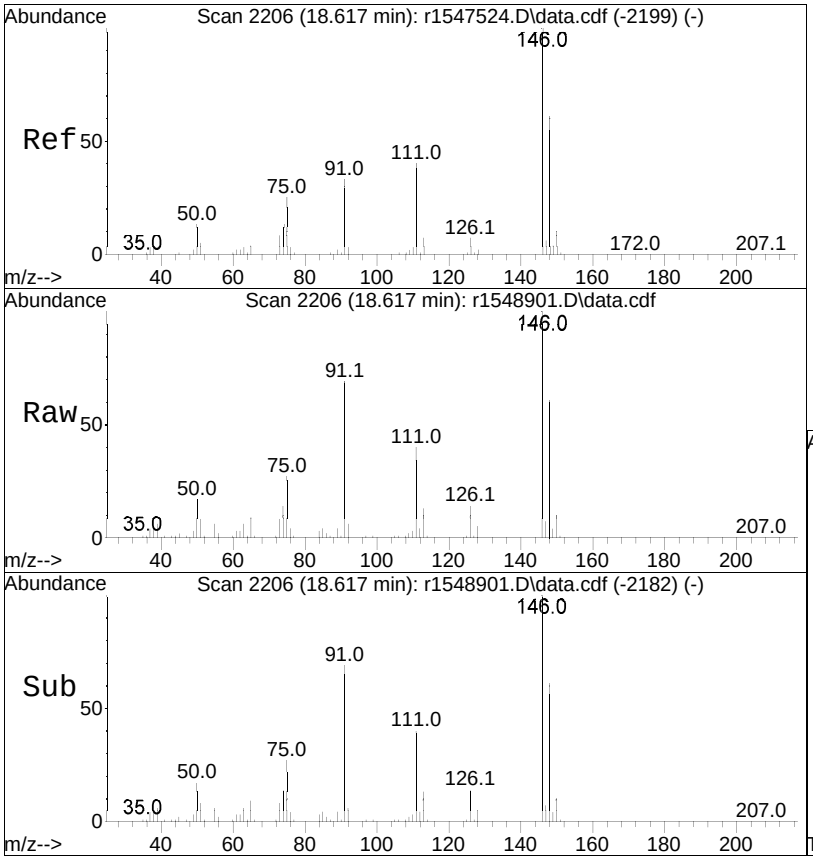


#101
Benzyl Chloride
Concen: 8.37 ppbV
RT: 18.608 min Scan# 2205
Delta R.T. 0.008 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion: 91 Resp: 551499

Ion	Ratio	Lower	Upper
91	100		
126	21.4	18.7	28.1

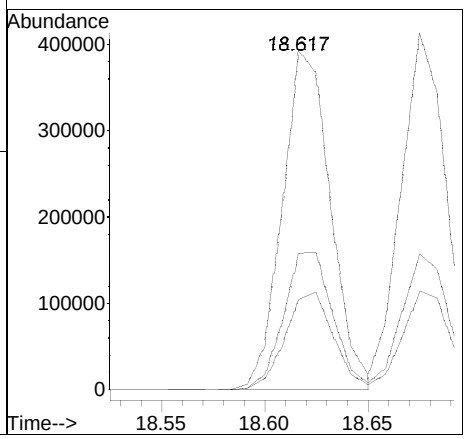


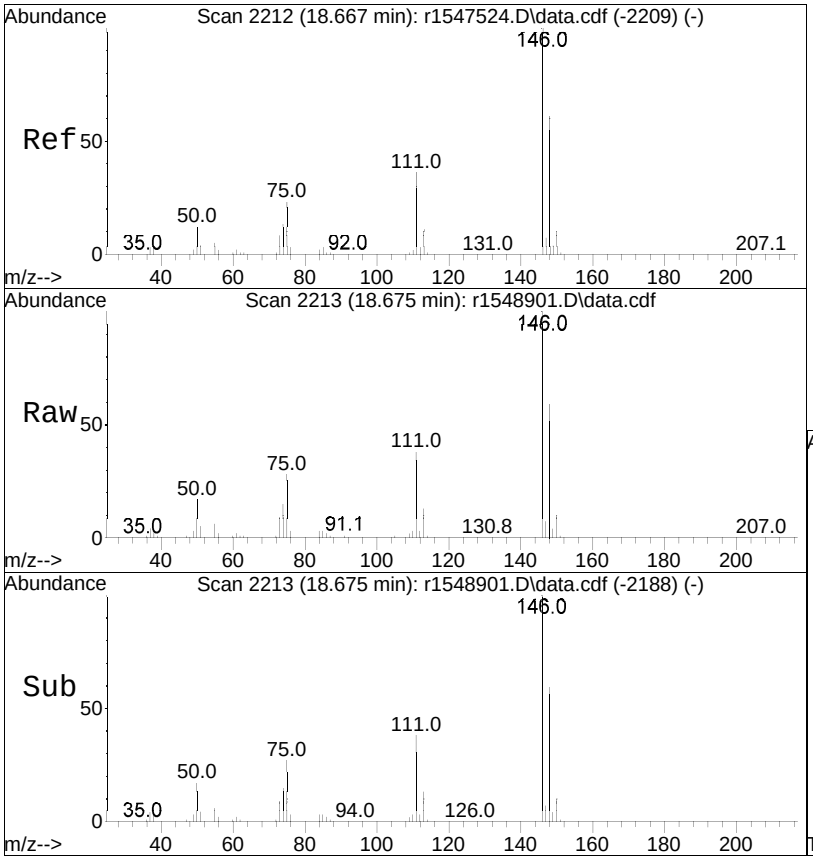


#102
1,3-dichlorobenzene
Concen: 8.02 ppbV
RT: 18.617 min Scan# 2206
Delta R.T. 0.000 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion:146 Resp: 637288

Ion	Ratio	Lower	Upper
146	100		
111	40.4	31.8	47.6
75	26.7	20.1	30.1

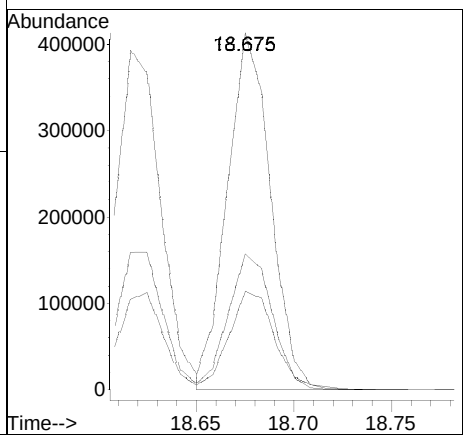


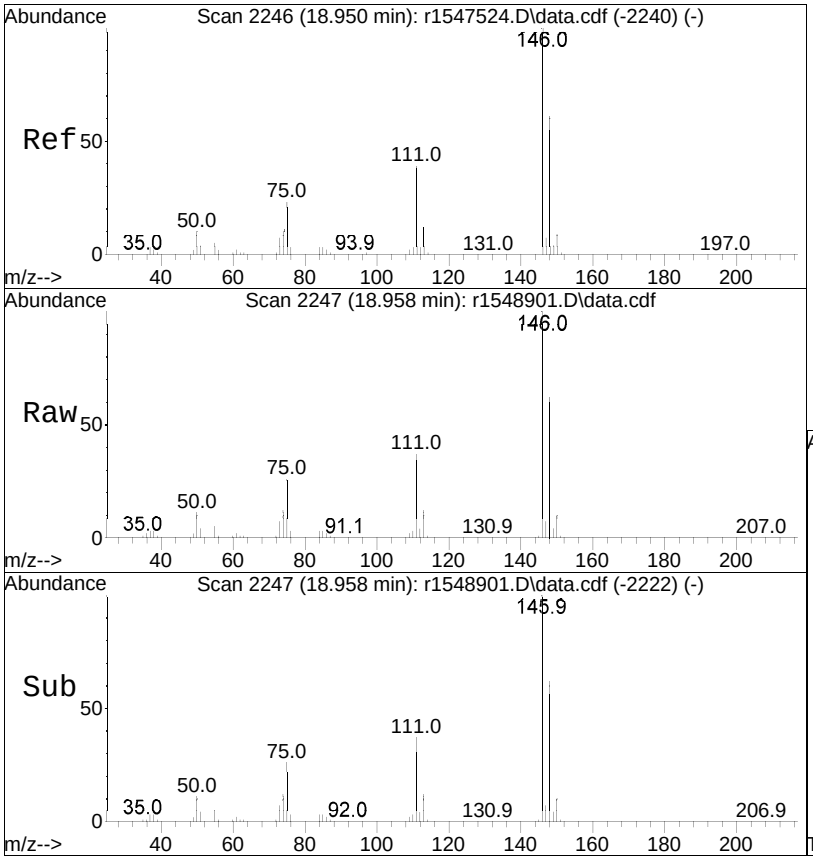


#103
1,4-dichlorobenzene
Concen: 7.89 ppbV m
RT: 18.675 min Scan# 2213
Delta R.T. 0.008 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion:146 Resp: 634366

Ion	Ratio	Lower	Upper
146	100		
111	38.0	28.6	42.8
75	27.6	18.3	27.5#

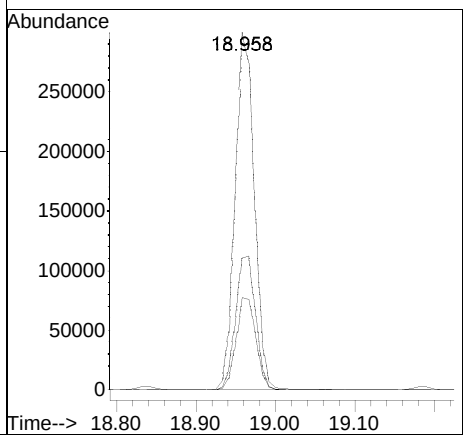


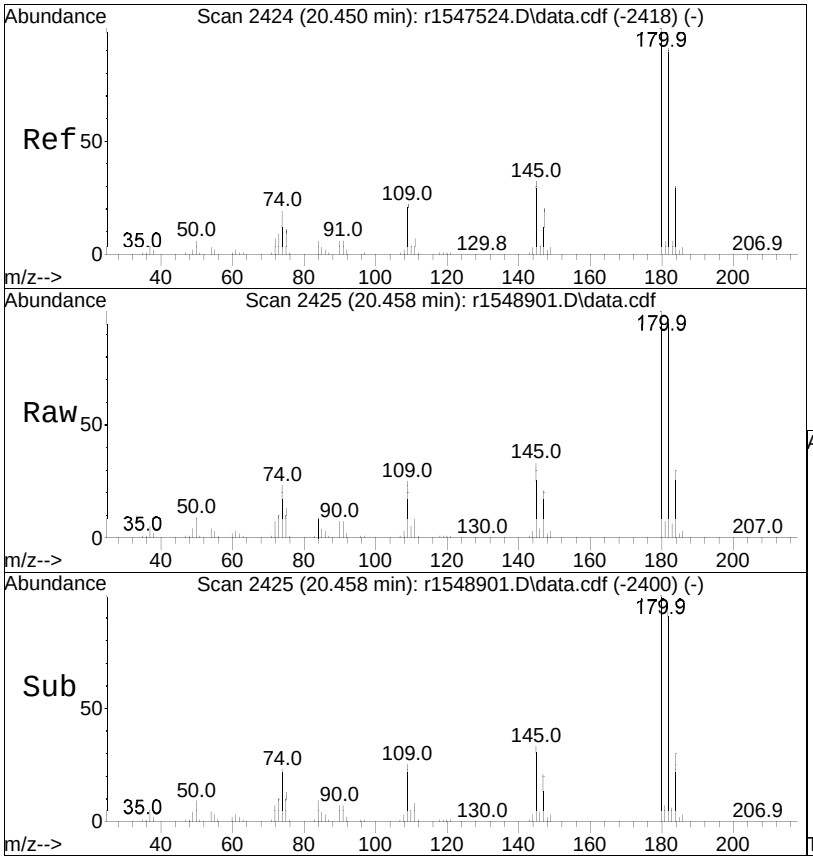


#107
1,2-dichlorobenzene
Concen: 6.53 ppbV
RT: 18.958 min Scan# 2247
Delta R.T. 0.008 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion:146 Resp: 495491

Ion	Ratio	Lower	Upper
146	100		
111	37.0	30.8	46.2
75	25.8	18.6	27.8

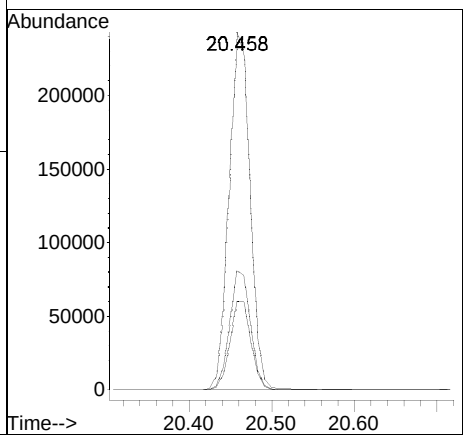


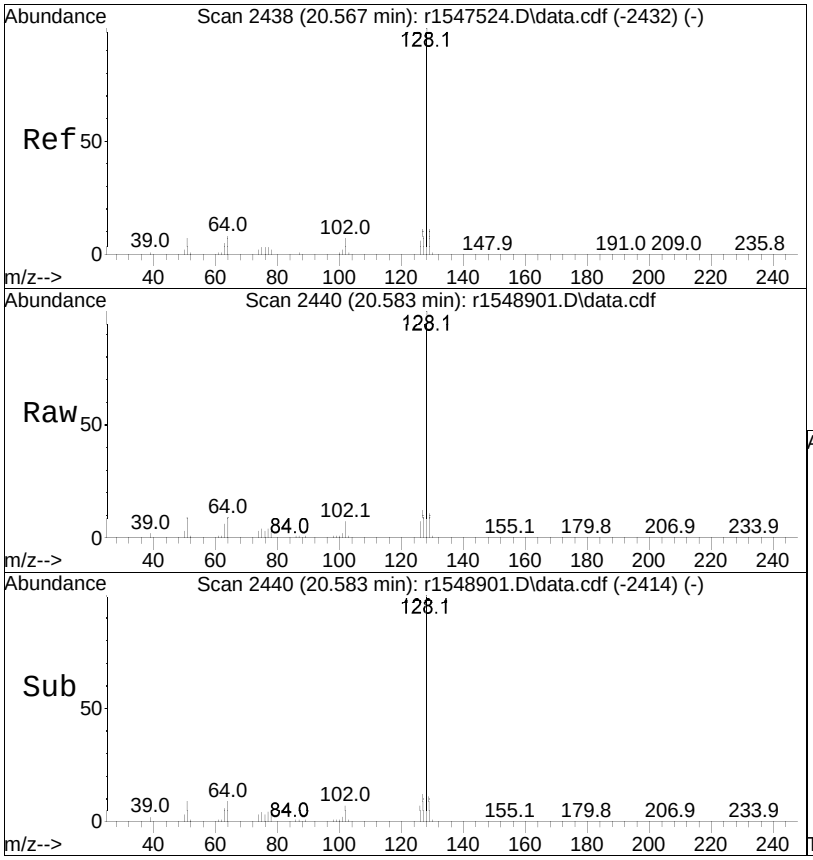


#115
1,2,4-trichlorobenzene
Concen: 7.61 ppbV
RT: 20.458 min Scan# 2425
Delta R.T. 0.008 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion:180 Resp: 424452

Ion	Ratio	Lower	Upper
180	100		
145	33.4	25.5	38.3
109	24.8	17.8	26.8

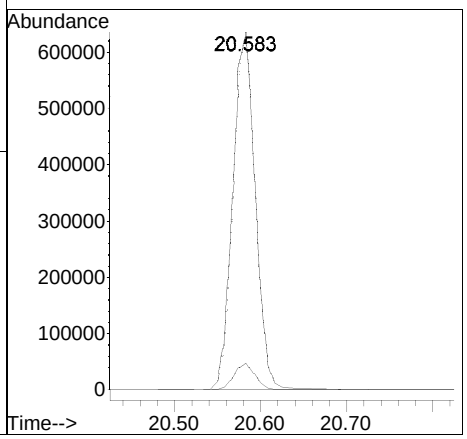


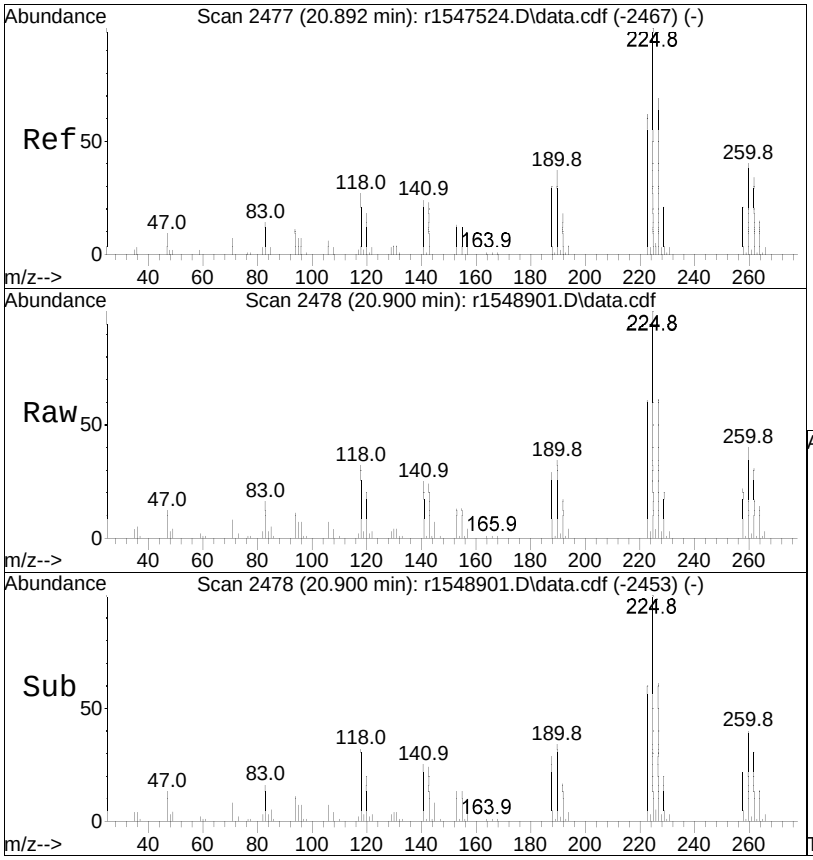


#116
naphthalene
Concen: 7.64 ppbV
RT: 20.583 min Scan# 2440
Delta R.T. 0.017 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion:128 Resp: 1138732

Ion	Ratio	Lower	Upper
128	100		
102	7.4	5.4	8.0

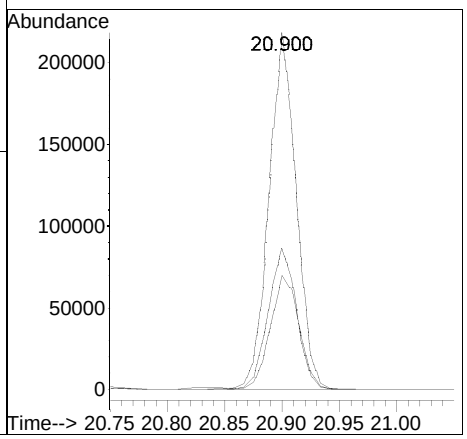




#119
hexachlorobutadiene
Concen: 7.42 ppbV
RT: 20.900 min Scan# 2478
Delta R.T. 0.008 min
Lab File: r1548901.D
Acq: 20 Jun 2024 1:18 PM

Tgt Ion:225 Resp: 358483

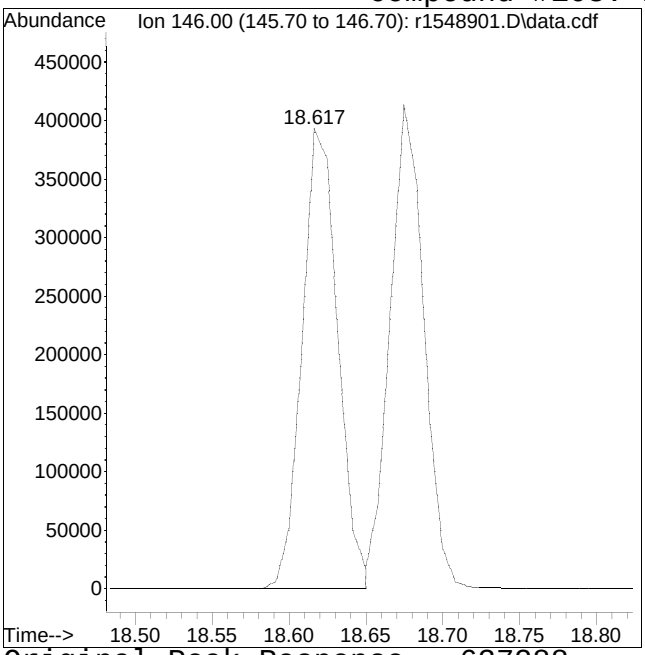
Ion	Ratio	Lower	Upper
225	100		
260	39.6	31.7	47.5
118	32.1	21.9	32.9



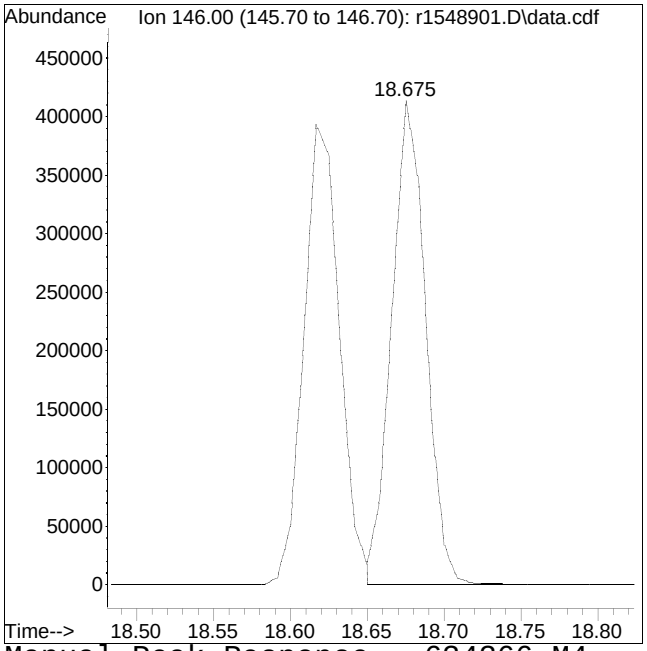
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1548901.D Operator : AIRLAB15:TPH
Date Inj'd : 6/20/2020 0:1: 8 Instrument :
Sample : WG1937252-3,3,250,250 Quant Date : 6/20/2024 3:34 pm

Compound #103: 1,4-dichlorobenzene



Original Peak Response = 637288



Manual Peak Response = 634366 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548855.D
Acq On : 18 Jun 2024 11:05 PM
Operator : AIRLAB15:JMB
Sample : WG1936045-5,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:08:04 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618T\r1548845.D
Sub List : TO15-NY+NAPH-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.142	49	291557	10.000	ppbV	0.02
Standard Area = 309658			Recovery =	94.15%		
43) 1,4-difluorobenzene	11.373	114	756558	10.000	ppbV	0.03
Standard Area = 833704			Recovery =	90.75%		
67) chlorobenzene-D5	16.058	54	135899	10.000	ppbV	0.02
Standard Area = 146665			Recovery =	92.66%		
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.018	85	14065	0.446	ppbV	95
6) chloromethane	4.180	50	7793	0.650	ppbV	99
7) Freon-114	4.294		0	N.D.		
10) 1,3-butadiene	4.558		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.170	31	2737641	286.604	ppbV	91
17) vinyl bromide	5.370		0	N.D.		
19) acetone	5.680	43	11980921	621.884	ppbV	98
21) trichlorofluoromethane	5.873	101	5246	0.204	ppbV	98
22) isopropyl alcohol	5.997	45	76830	3.250	ppbV	100
27) tertiary butyl alcohol	0.000		0	N.D.	d	
28) methylene chloride	6.726	49	6864	0.318	ppbV	97
29) 3-chloropropene	6.774		0	N.D.		
30) carbon disulfide	7.032	76	4511	0.082	ppbV #	21
31) Freon 113	7.014	101	2399	0.062	ppbV	87
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	8.075		0	N.D.		
36) 2-butanone	8.450	43	79885	1.852	ppbV	98
38) Ethyl Acetate	9.242	61	1838	0.222	ppbV #	11
39) chloroform	9.300	83	1053	0.031	ppbV #	89
40) Tetrahydrofuran	9.750	42	7987M6	0.293	ppbV	
42) 1,2-dichloroethane	10.133		0	N.D.		
44) hexane	9.208	57	4707	0.142	ppbV #	46
50) benzene	10.947	78	15372	0.263	ppbV	96
53) cyclohexane	11.260	56	4548	0.128	ppbV #	83
56) 1,2-dichloropropane	11.900		0	N.D.		

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548855.D
Acq On : 18 Jun 2024 11:05 PM
Operator : AIRLAB15:JMB
Sample : WG1936045-5,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:08:04 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618T\r1548845.D
Sub List : TO15-NY+NAPH-7-SIM - .

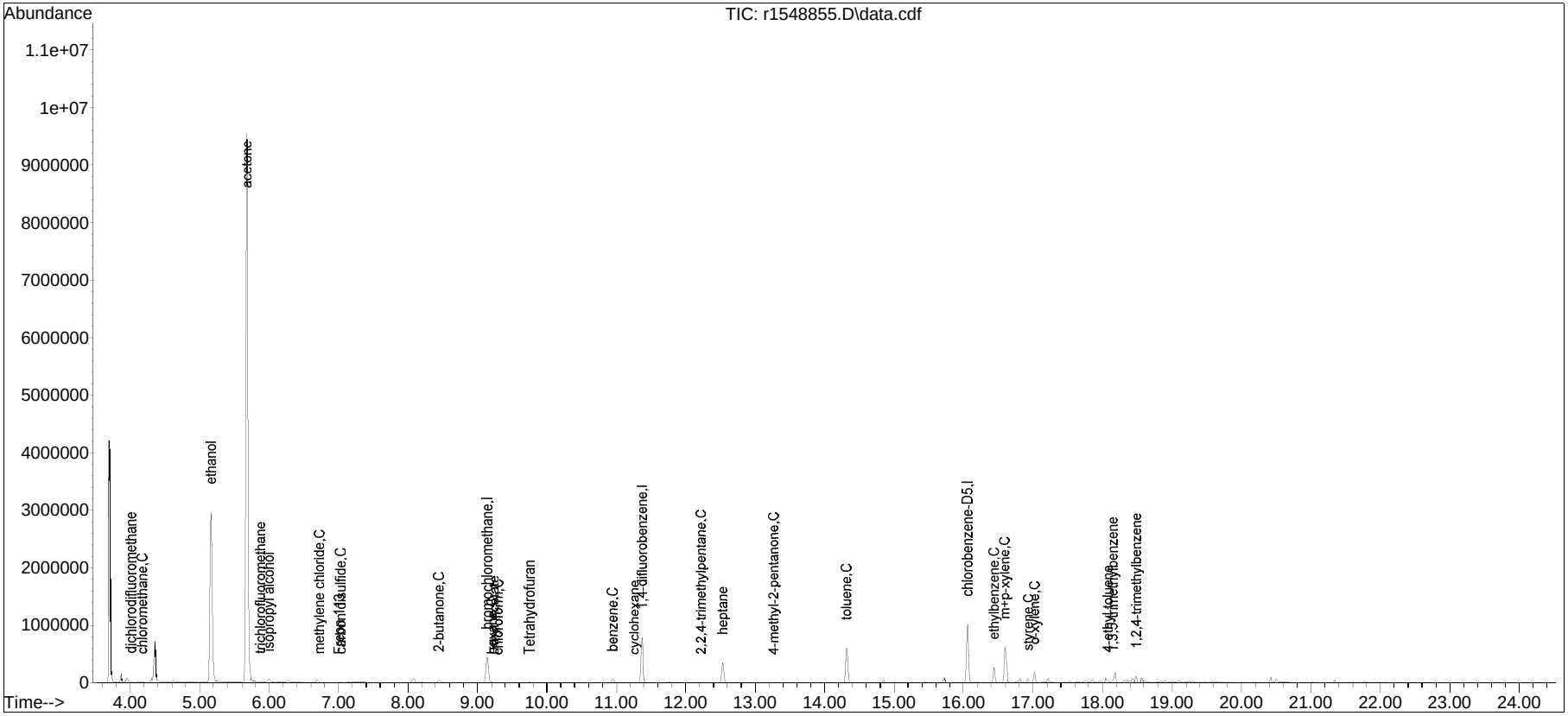
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57)	bromodichloromethane	12.213		0	N.D.		
58)	1,4-dioxane	0.000		0	N.D.	d	
60)	2,2,4-trimethylpentane	12.220	57	7634	0.069	ppbV #	87
62)	heptane	12.533	43	177086	4.808	ppbV	97
63)	cis-1,3-dichloropropene	0.000		0	N.D.		
64)	4-methyl-2-pentanone	13.267	43	2172	0.052	ppbV #	68
65)	trans-1,3-dichloropropene	0.000		0	N.D.		
66)	1,1,2-trichloroethane	0.000		0	N.D.		
68)	toluene	14.308	91	513682	6.004	ppbV	99
72)	2-hexanone	14.567		0	N.D.		
74)	dibromochloromethane	0.000		0	N.D.		
75)	1,2-dibromoethane	0.000		0	N.D.		
80)	chlorobenzene	16.092		0	N.D.		
81)	ethylbenzene	16.442	91	209092	1.907	ppbV	98
83)	m+p-xylene	16.592	91	524600	6.111	ppbV	97
84)	bromoform	16.675		0	N.D.		
85)	styrene	16.933	104	33034	0.489	ppbV	95
86)	1,1,2,2-tetrachloroethane	17.000		0	N.D.		
87)	o-xylene	17.025	91	122168	1.424	ppbV	94
96)	4-ethyl toluene	18.083	105	18408M4	0.163	ppbV	
97)	1,3,5-trimethylbenzene	18.150	105	23189	0.212	ppbV #	94
99)	1,2,4-trimethylbenzene	18.492	105	57682	0.619	ppbV #	58
101)	Benzyl Chloride	18.675		0	N.D.		
102)	1,3-dichlorobenzene	18.617		0	N.D.		
103)	1,4-dichlorobenzene	18.683		0	N.D.		
107)	1,2-dichlorobenzene	0.000		0	N.D.		
115)	1,2,4-trichlorobenzene	20.475		0	N.D.		
116)	naphthalene	20.600		0	N.D.		
119)	hexachlorobutadiene	0.000		0	N.D.		

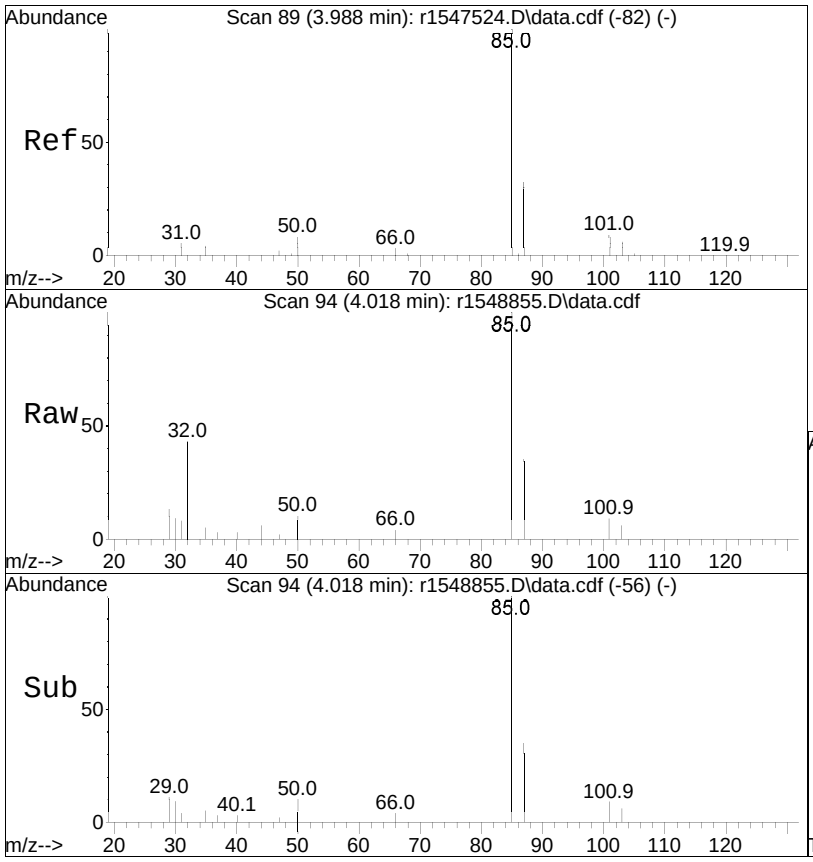
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY+NAPH-7-SIM - .ab15\2024\06\0618T\r1548845.D

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618T\
Data File : r1548855.D
Acq On : 18 Jun 2024 11:05 PM
Operator : AIRLAB15:JMB
Sample : WG1936045-5,3,250,250
Misc : WG1936045,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:08:04 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

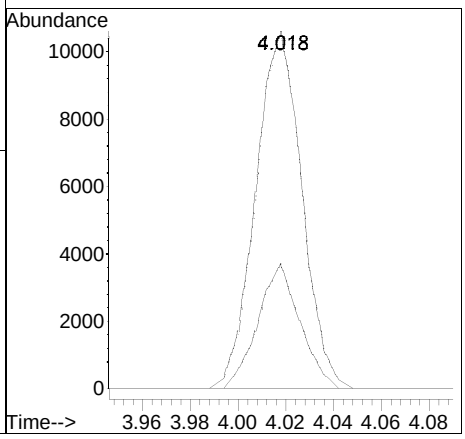


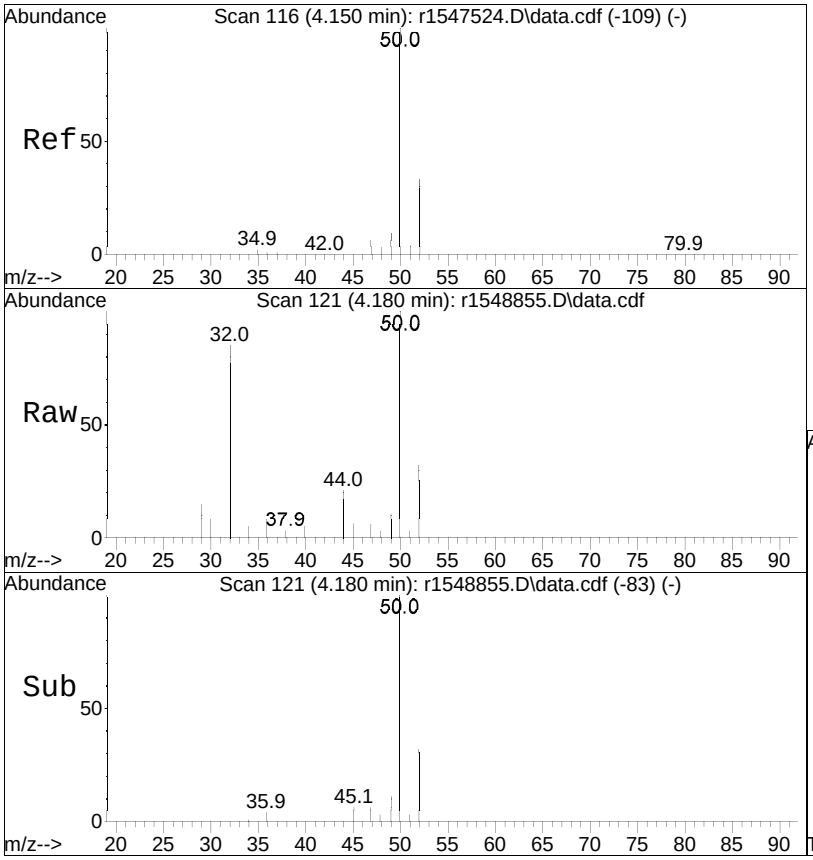


#5
dichlorodifluoromethane
Concen: 0.45 ppbV
RT: 4.018 min Scan# 94
Delta R.T. 0.030 min
Lab File: r1548855.D
Acq: 18 Jun 2024 11:05 PM

Tgt Ion: 85 Resp: 14065

Ion	Ratio	Lower	Upper
85	100		
87	35.0	25.8	38.8

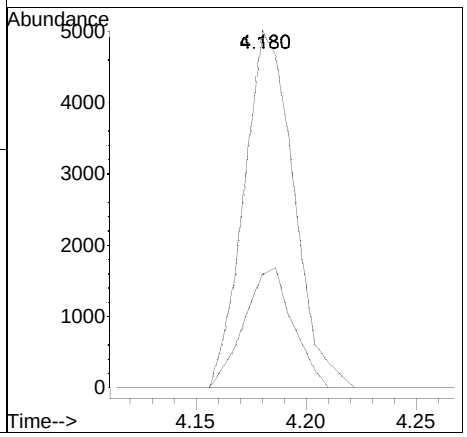


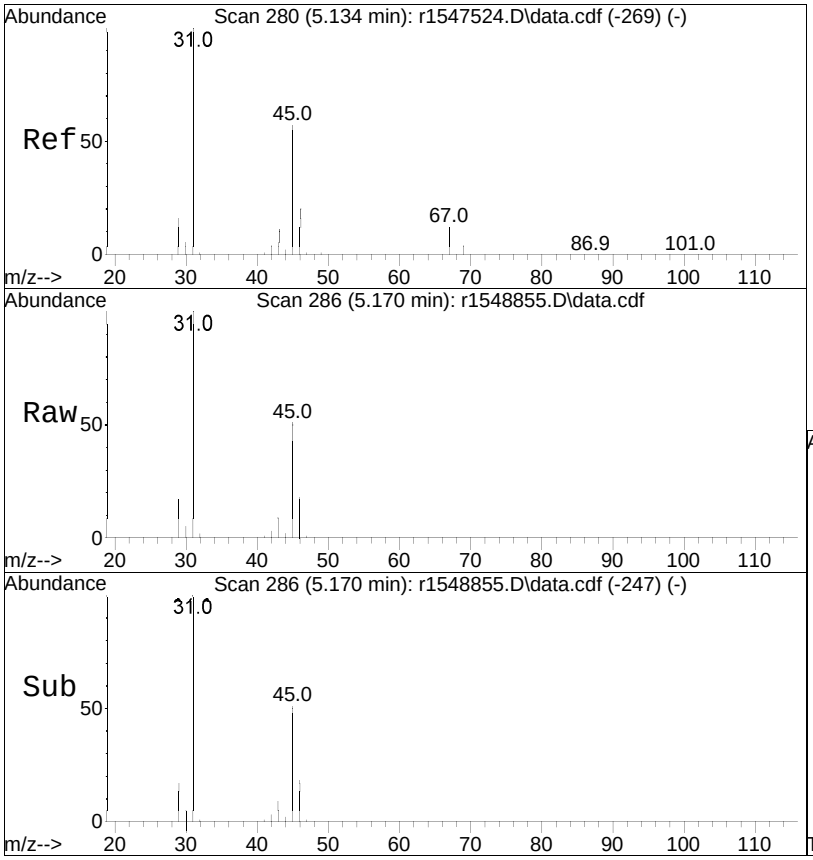


#6
chloromethane
Concen: 0.65 ppbV
RT: 4.180 min Scan# 121
Delta R.T. 0.030 min
Lab File: r1548855.D
Acq: 18 Jun 2024 11:05 PM

Tgt Ion: 50 Resp: 7793

Ion	Ratio	Lower	Upper
50	100		
52	31.7	26.0	39.0

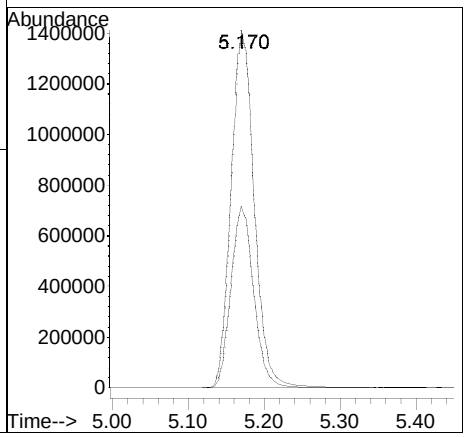


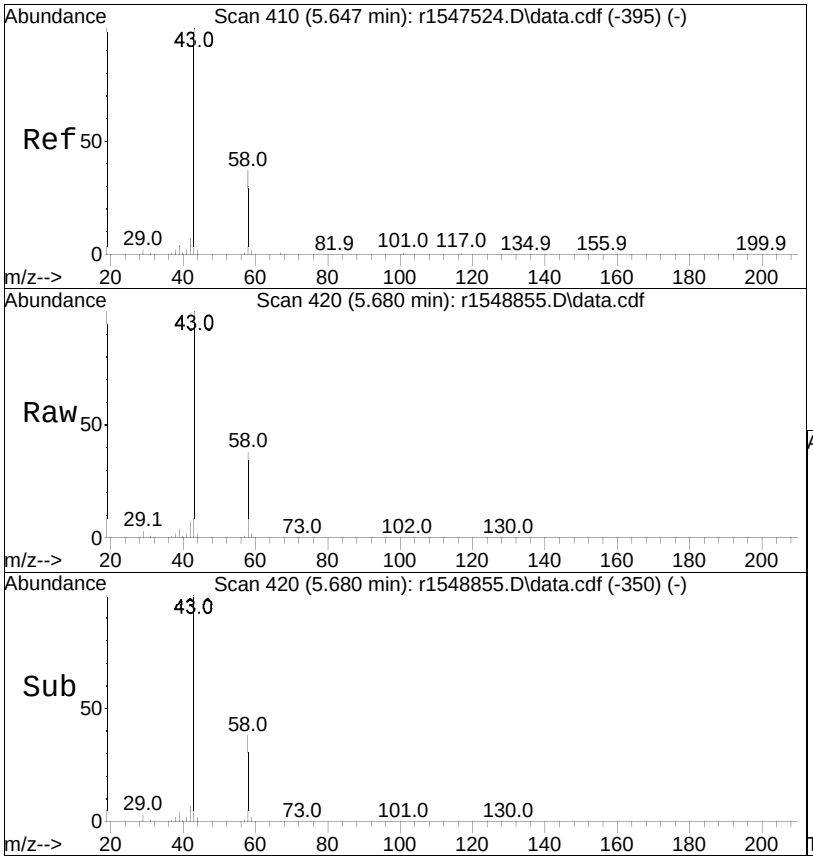


#15
ethanol
Concen: 286.60 ppbV
RT: 5.170 min Scan# 286
Delta R.T. 0.036 min
Lab File: r1548855.D
Acq: 18 Jun 2024 11:05 PM

Tgt Ion: 31 Resp: 2737641

Ion	Ratio	Lower	Upper
31	100		
45	50.7	45.7	68.5

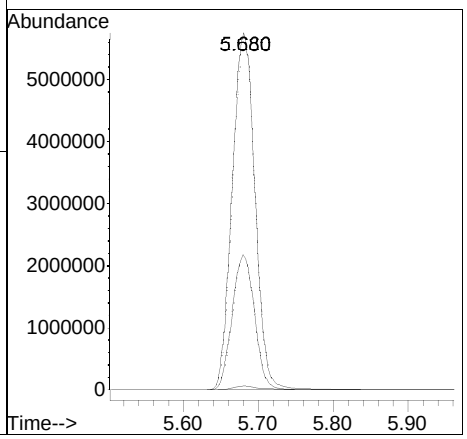


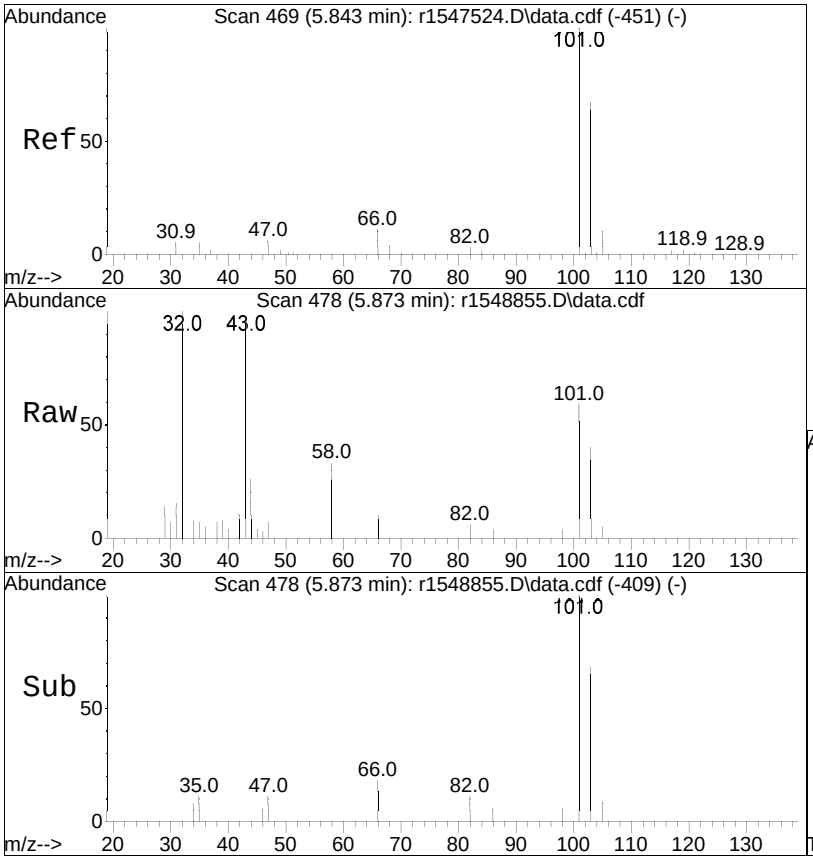


#19
acetone
Concen: 621.88 ppbV
RT: 5.680 min Scan# 420
Delta R.T. 0.033 min
Lab File: r1548855.D
Acq: 18 Jun 2024 11:05 PM

Tgt Ion: 43 Resp:11980921

Ion	Ratio	Lower	Upper
43	100		
58	37.7	29.4	44.0
57	1.0	0.7	1.1

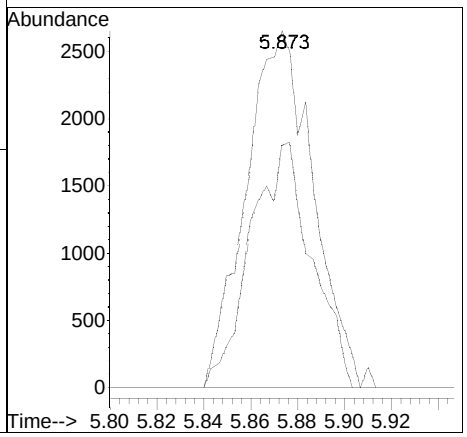


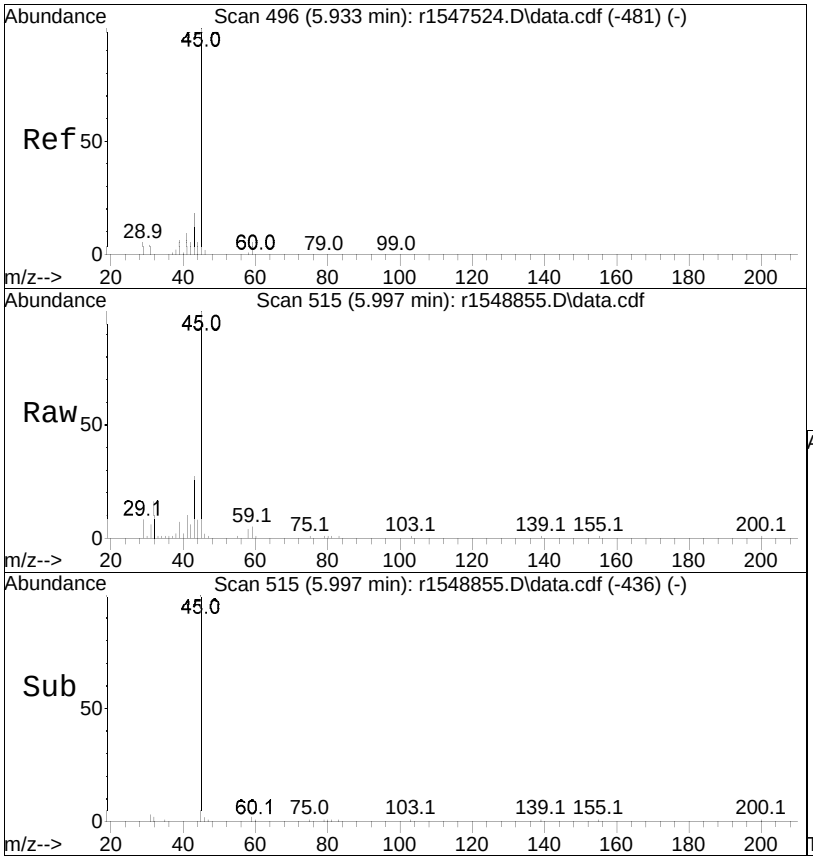


#21
trichlorofluoromethane
Concen: 0.20 ppbV
RT: 5.873 min Scan# 478
Delta R.T. 0.030 min
Lab File: r1548855.D
Acq: 18 Jun 2024 11:05 PM

Tgt Ion:101 Resp: 5246

Ion	Ratio	Lower	Upper
101	100		
103	67.9	53.4	80.0

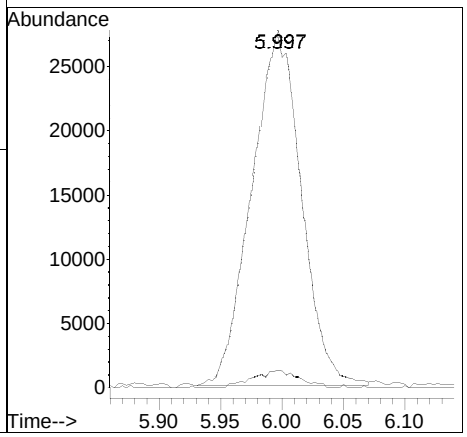


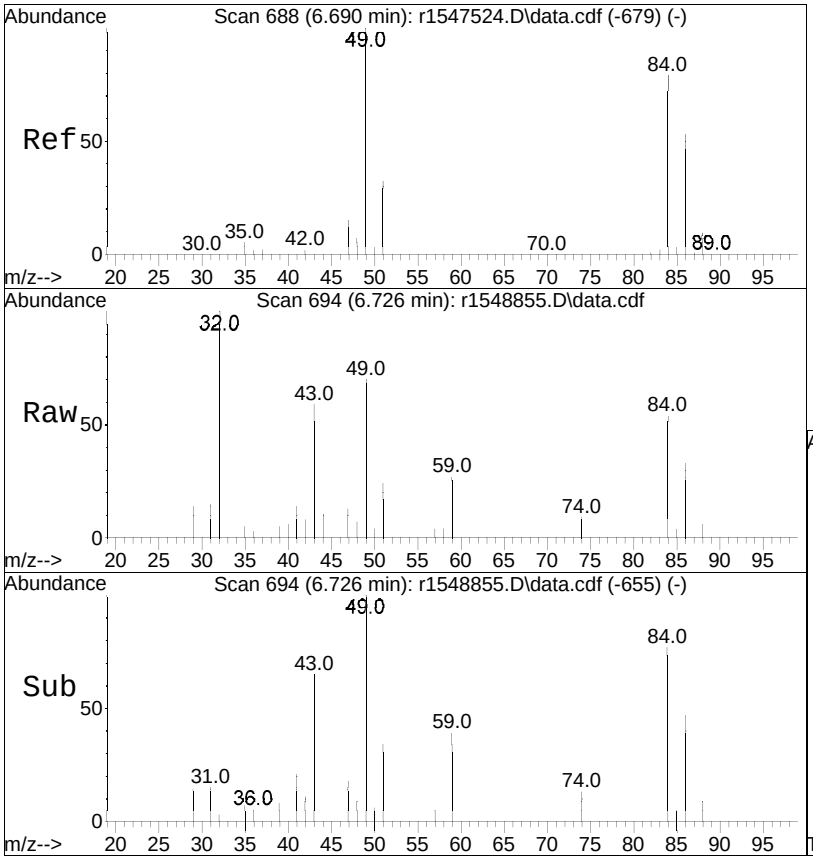


#22
isopropyl alcohol
Concen: 3.25 ppbV
RT: 5.997 min Scan# 515
Delta R.T. 0.063 min
Lab File: r1548855.D
Acq: 18 Jun 2024 11:05 PM

Tgt Ion: 45 Resp: 76830

Ion	Ratio	Lower	Upper
45	100		
59	4.8	3.8	5.6

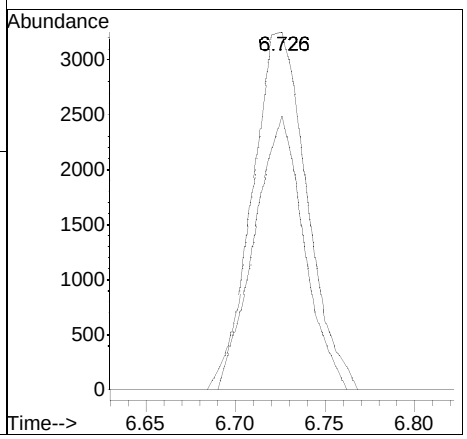


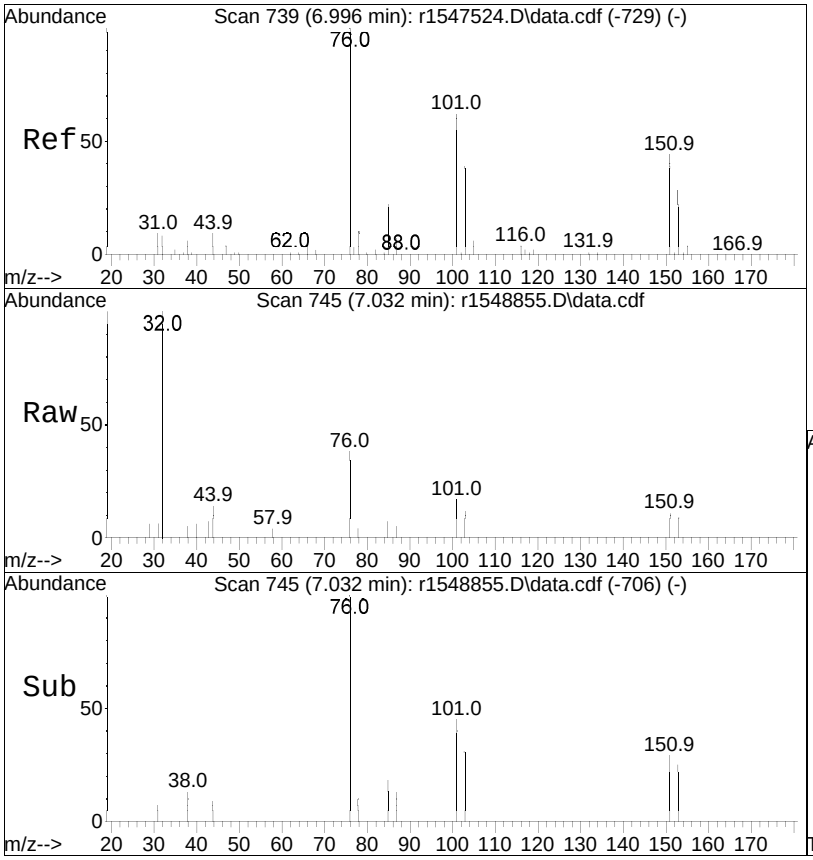


#28
methylene chloride
Concen: 0.32 ppbV
RT: 6.726 min Scan# 694
Delta R.T. 0.036 min
Lab File: r1548855.D
Acq: 18 Jun 2024 11:05 PM

Tgt Ion: 49 Resp: 6864

Ion	Ratio	Lower	Upper
49	100		
84	76.6	63.4	95.2

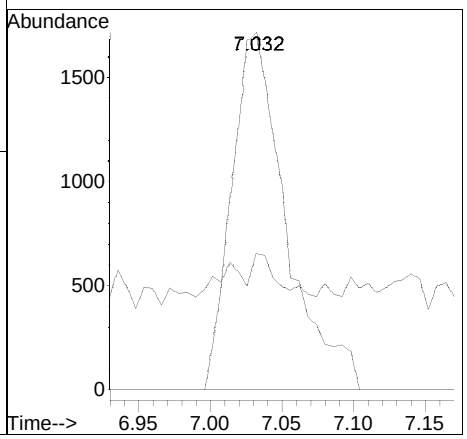


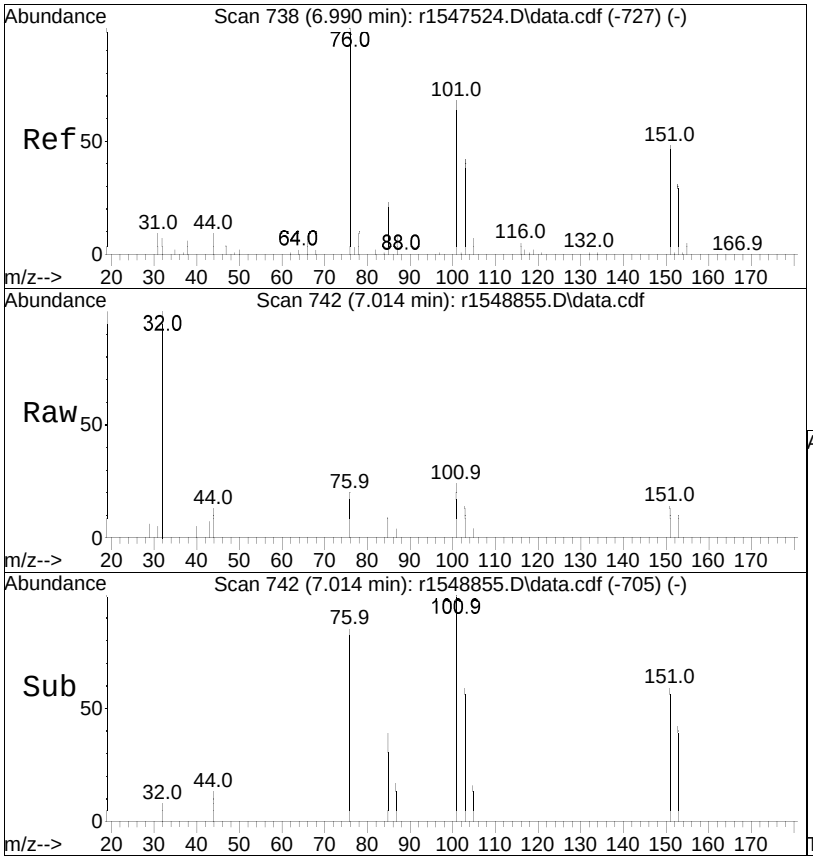


#30
carbon disulfide
Concen: 0.08 ppbV
RT: 7.032 min Scan# 745
Delta R.T. 0.036 min
Lab File: r1548855.D
Acq: 18 Jun 2024 11:05 PM

Tgt Ion: 76 Resp: 4511

Ion	Ratio	Lower	Upper
76	100		
44	38.1	7.5	11.3#

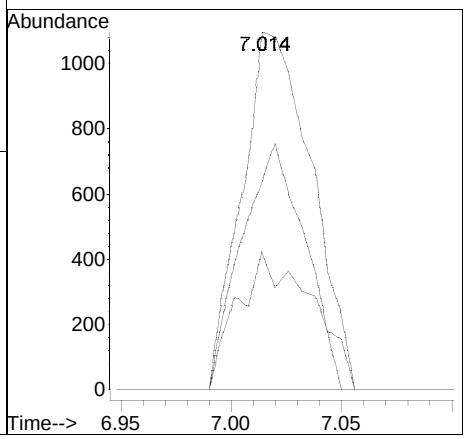


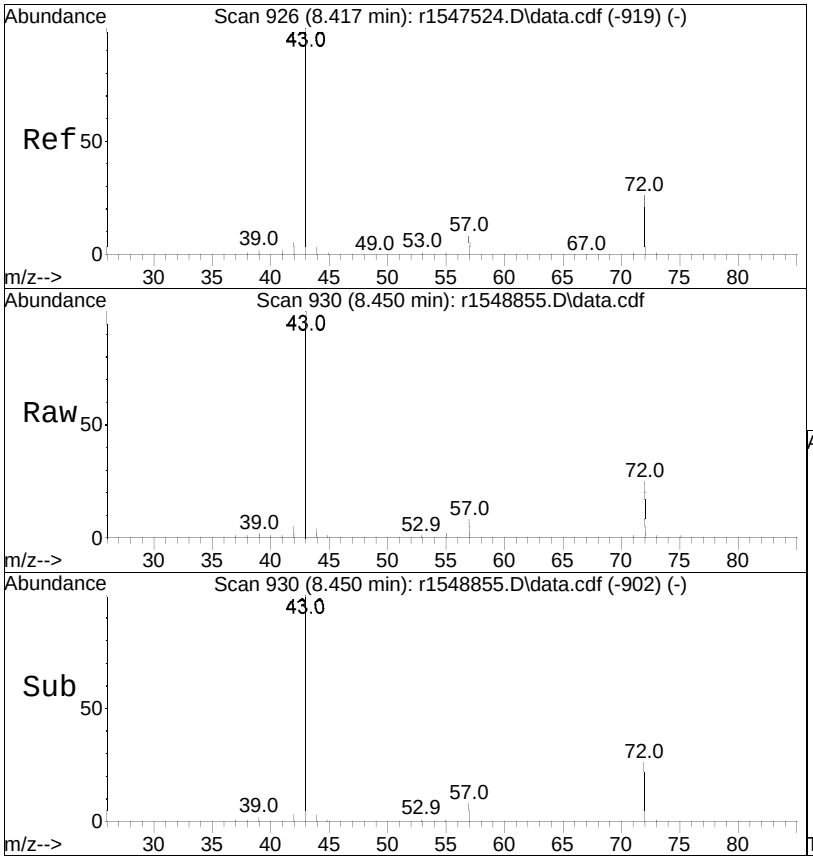


#31
Freon 113
Concen: 0.06 ppbV
RT: 7.014 min Scan# 742
Delta R.T. 0.024 min
Lab File: r1548855.D
Acq: 18 Jun 2024 11:05 PM

Tgt Ion:101 Resp: 2399

Ion	Ratio	Lower	Upper
101	100		
85	38.6	27.6	41.4
151	58.5	56.9	85.3

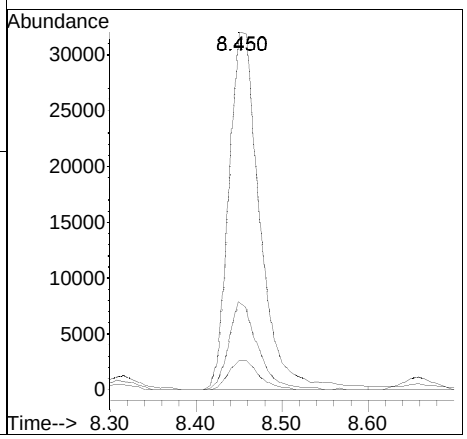


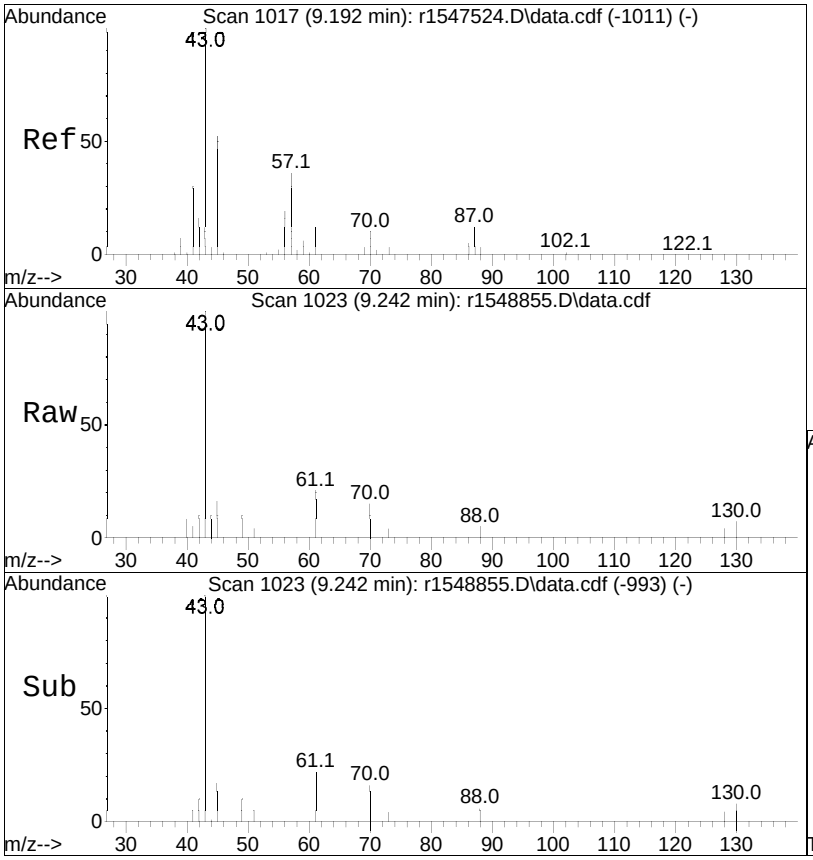


#36
2-butanone
Concen: 1.85 ppbV
RT: 8.450 min Scan# 930
Delta R.T. 0.033 min
Lab File: r1548855.D
Acq: 18 Jun 2024 11:05 PM

Tgt Ion: 43 Resp: 79885

Ion	Ratio	Lower	Upper
43	100		
72	24.5	20.9	31.3
57	8.1	6.6	10.0

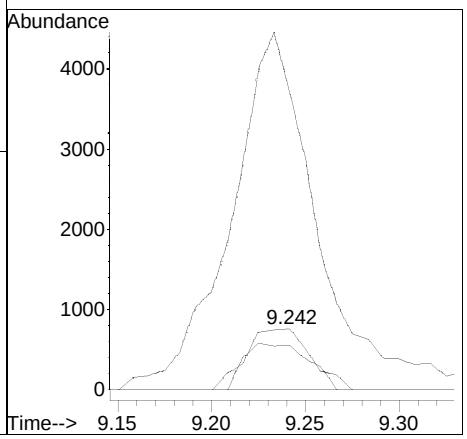


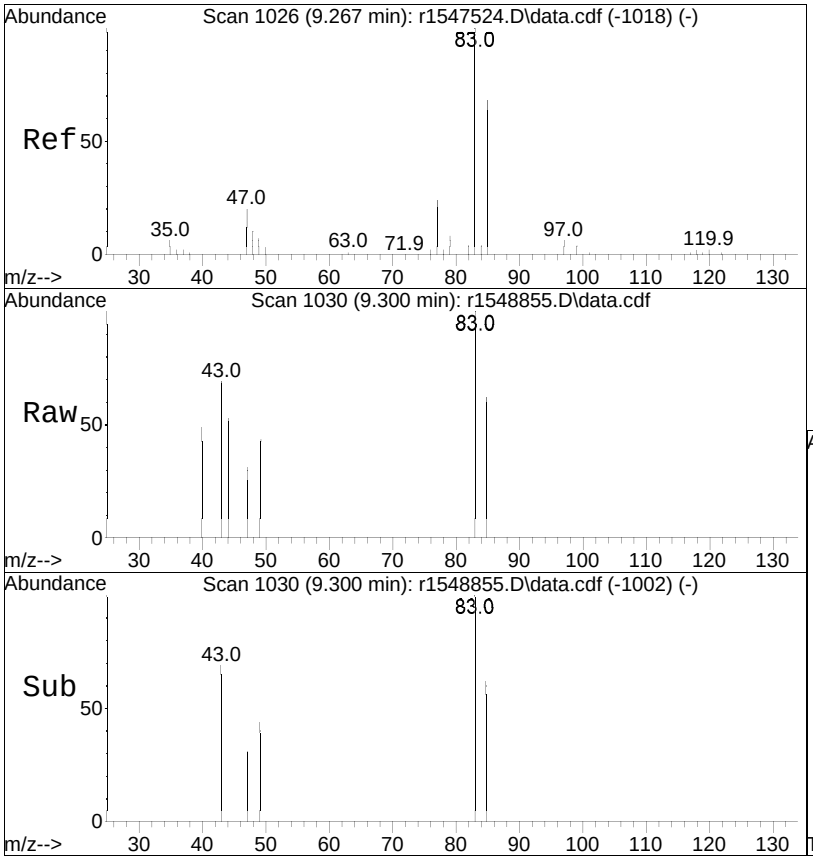


#38
Ethyl Acetate
Concen: 0.22 ppbV
RT: 9.242 min Scan# 1023
Delta R.T. 0.050 min
Lab File: r1548855.D
Acq: 18 Jun 2024 11:05 PM

Tgt Ion: 61 Resp: 1838

Ion	Ratio	Lower	Upper
61	100		
70	73.1	67.9	101.9
43	486.4	703.5	1055.3#

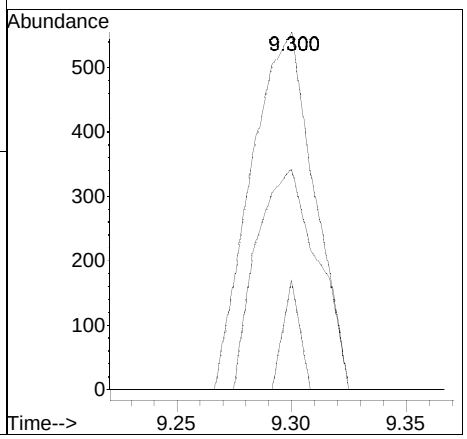


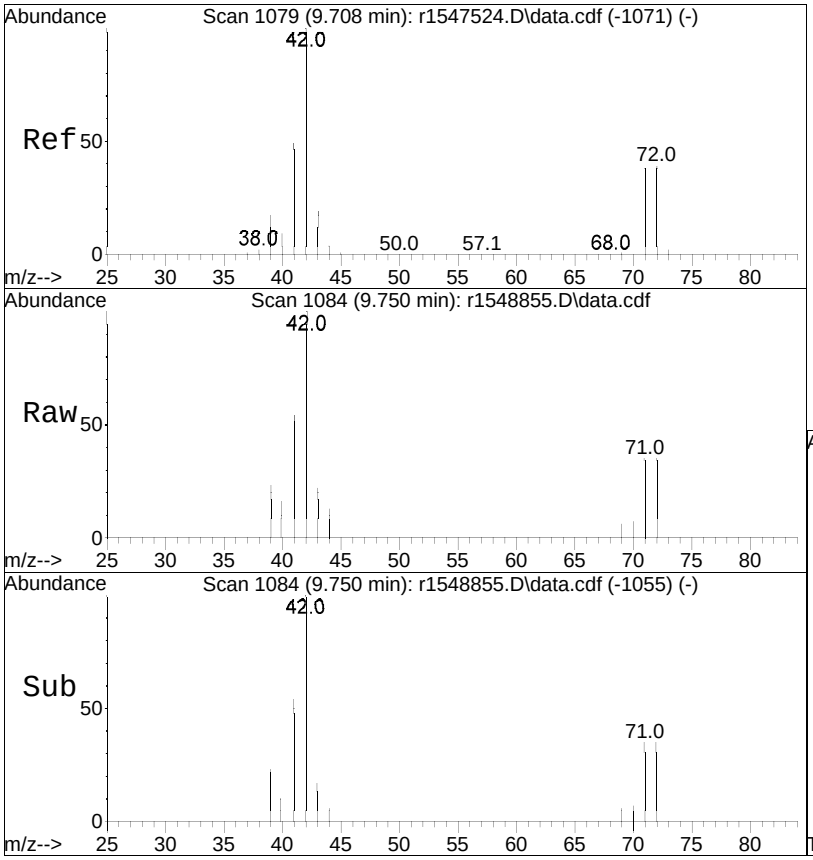


#39
chloroform
Concen: 0.03 ppbV
RT: 9.300 min Scan# 1030
Delta R.T. 0.033 min
Lab File: r1548855.D
Acq: 18 Jun 2024 11:05 PM

Tgt Ion: 83 Resp: 1053

Ion	Ratio	Lower	Upper
83	100		
85	61.9	54.3	81.5
47	30.7	16.4	24.6#

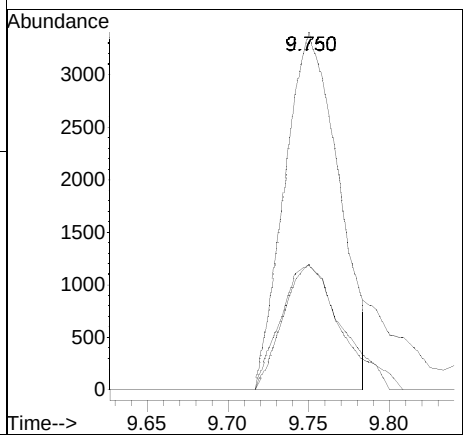


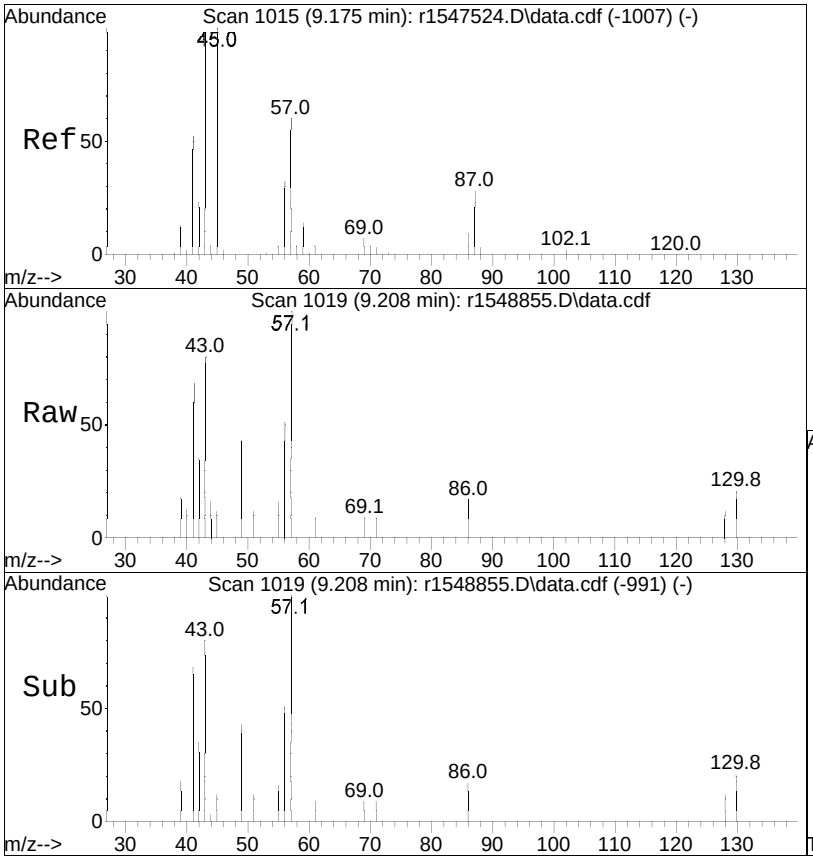


#40
Tetrahydrofuran
Concen: 0.29 ppbV m
RT: 9.750 min Scan# 1084
Delta R.T. 0.042 min
Lab File: r1548855.D
Acq: 18 Jun 2024 11:05 PM

Tgt Ion: 42 Resp: 7987

Ion	Ratio	Lower	Upper
42	100		
71	35.1	30.1	45.1
72	35.0	31.4	47.2

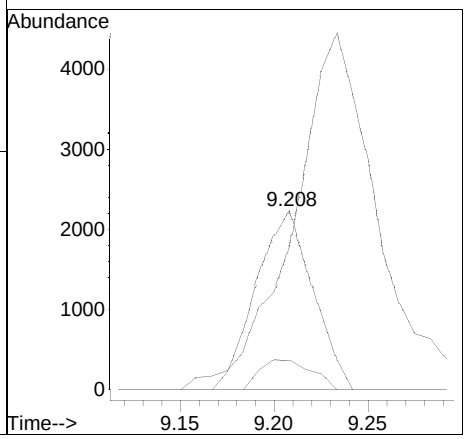


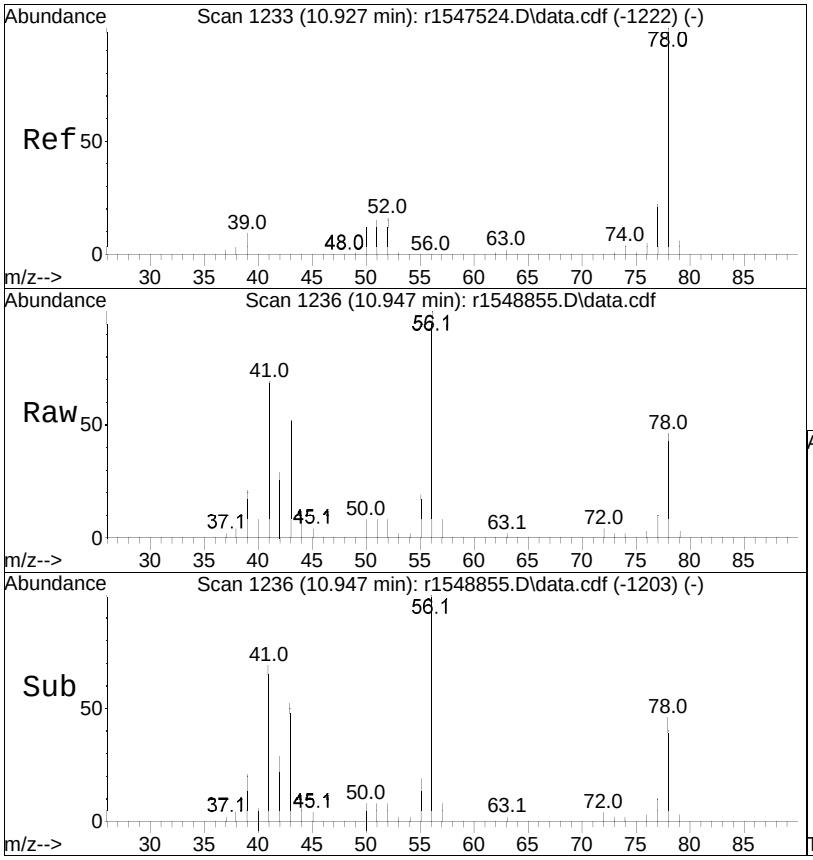


#44
hexane
Concen: 0.14 ppbV
RT: 9.208 min Scan# 1019
Delta R.T. 0.033 min
Lab File: r1548855.D
Acq: 18 Jun 2024 11:05 PM

Tgt Ion: 57 Resp: 4707

Ion	Ratio	Lower	Upper
57	100		
43	80.3	124.6	186.8#
86	16.5	11.5	17.3

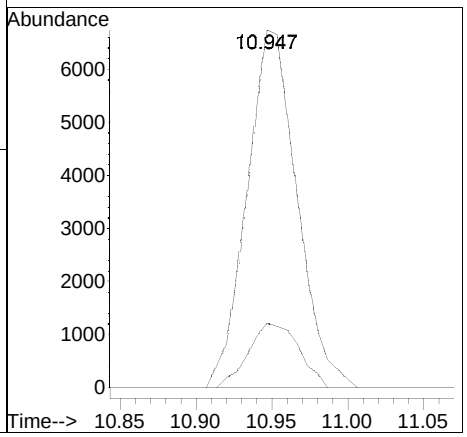


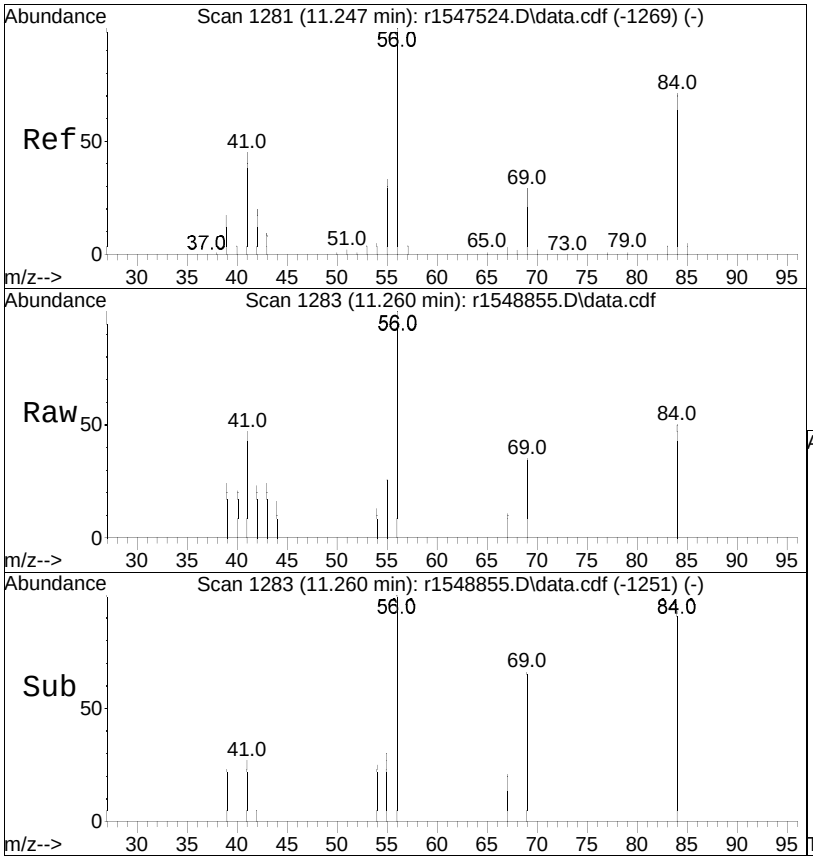


#50
benzene
Concen: 0.26 ppbV
RT: 10.947 min Scan# 1236
Delta R.T. 0.020 min
Lab File: r1548855.D
Acq: 18 Jun 2024 11:05 PM

Tgt Ion: 78 Resp: 15372

Ion	Ratio	Lower	Upper
78	100		
52	18.0	13.0	19.4

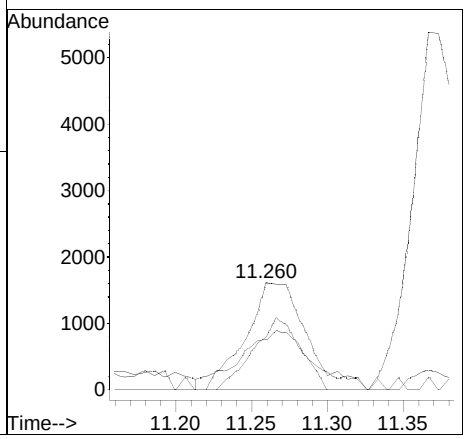


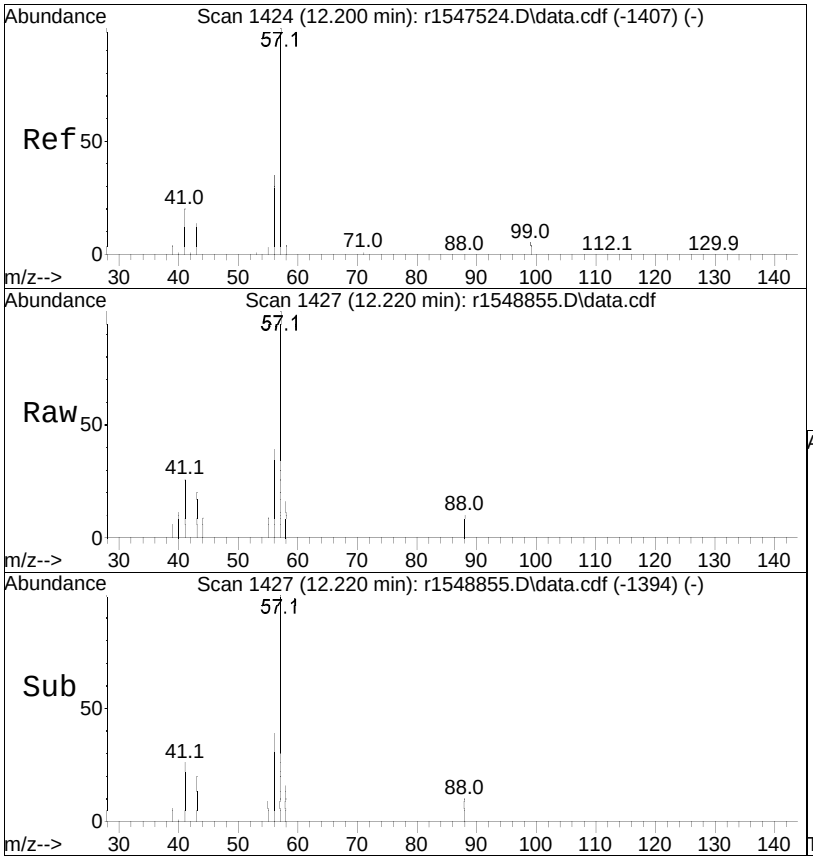


#53
cyclohexane
Concen: 0.13 ppbV
RT: 11.260 min Scan# 1283
Delta R.T. 0.013 min
Lab File: r1548855.D
Acq: 18 Jun 2024 11:05 PM

Tgt Ion: 56 Resp: 4548

Ion	Ratio	Lower	Upper
56	100		
84	49.8	57.2	85.8#
41	46.8	35.9	53.9

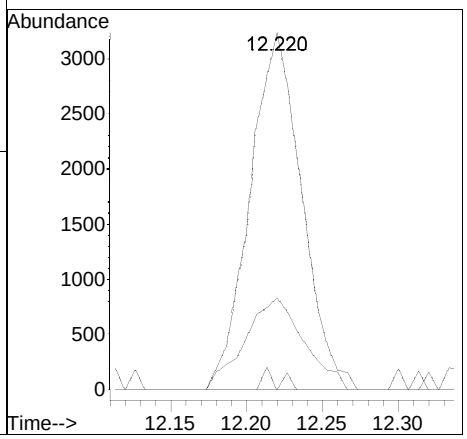


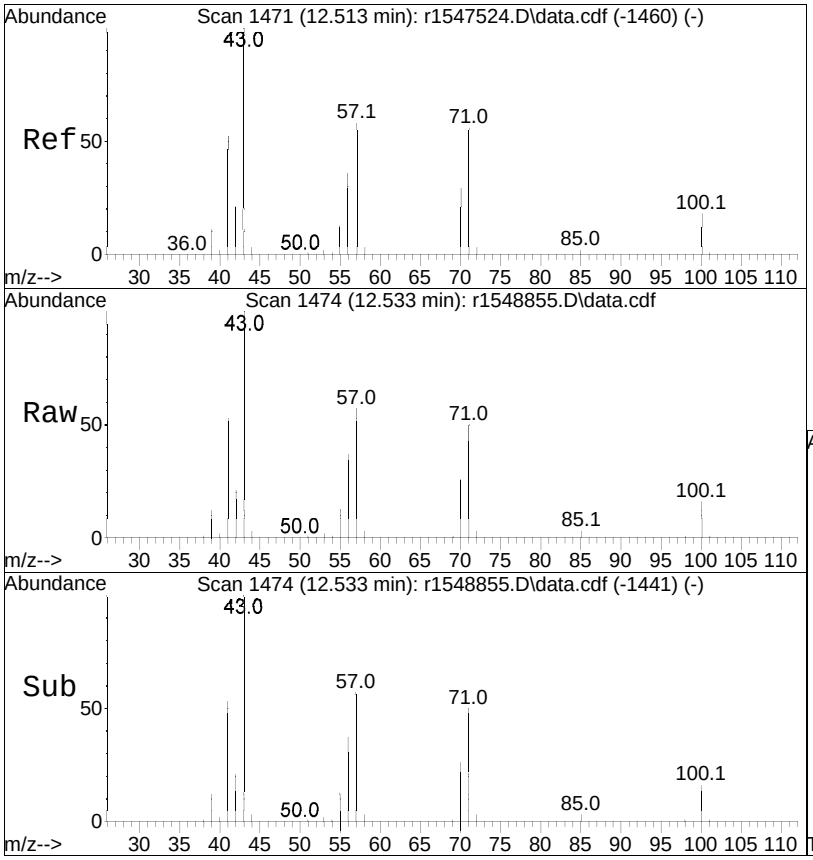


#60
2,2,4-trimethylpentane
Concen: 0.07 ppbV
RT: 12.220 min Scan# 1427
Delta R.T. 0.020 min
Lab File: r1548855.D
Acq: 18 Jun 2024 11:05 PM

Tgt Ion: 57 Resp: 7634

Ion	Ratio	Lower	Upper
57	100		
99	0.0	4.0	6.0#
41	25.9	16.1	24.1#

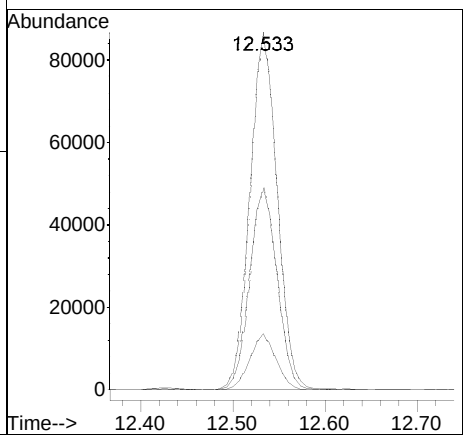


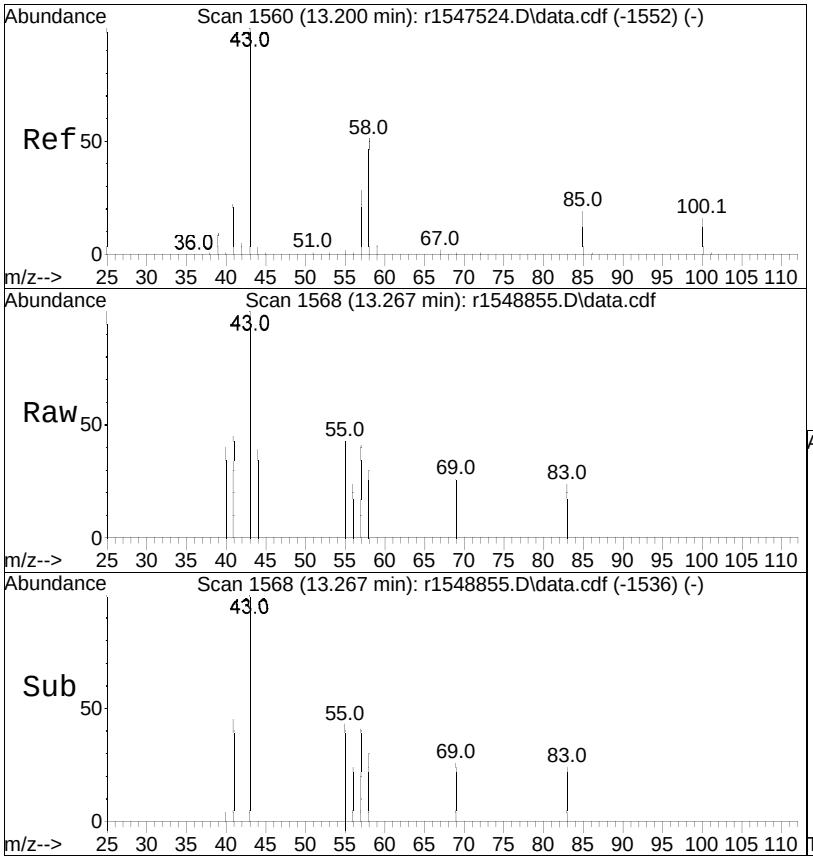


#62
heptane
Concen: 4.81 ppbV
RT: 12.533 min Scan# 1474
Delta R.T. 0.020 min
Lab File: r1548855.D
Acq: 18 Jun 2024 11:05 PM

Tgt Ion: 43 Resp: 177086

Ion	Ratio	Lower	Upper
43	100		
57	56.6	46.6	70.0
100	15.6	14.6	22.0

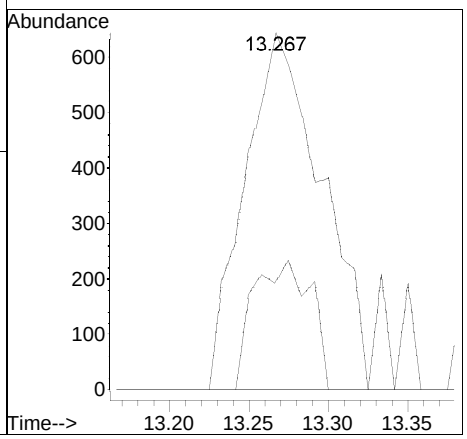


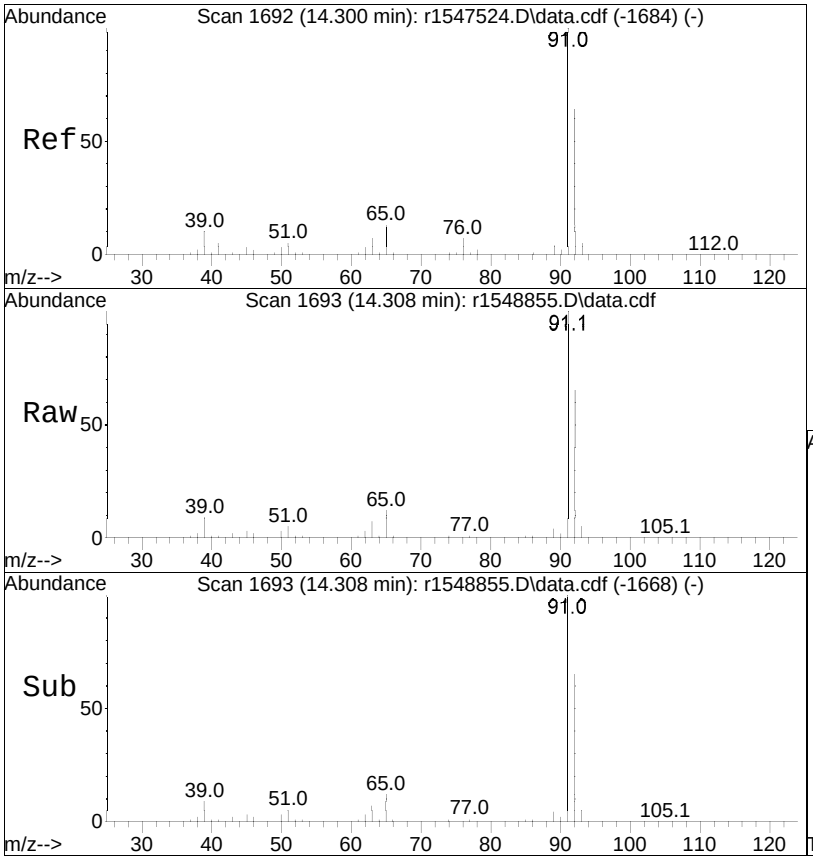


#64
4-methyl-2-pentanone
Concen: 0.05 ppbV
RT: 13.267 min Scan# 1568
Delta R.T. 0.067 min
Lab File: r1548855.D
Acq: 18 Jun 2024 11:05 PM

Tgt Ion: 43 Resp: 2172

Ion	Ratio	Lower	Upper
43	100		
58	30.0	41.0	61.4#
100	0.0	13.0	19.6#

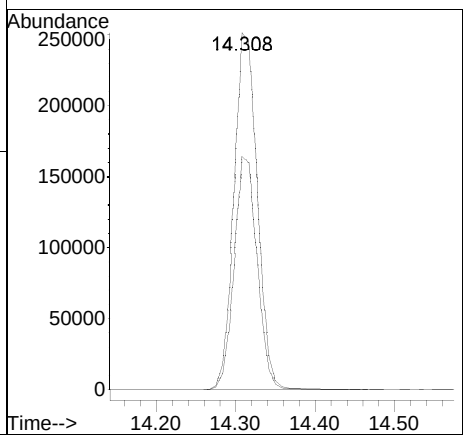


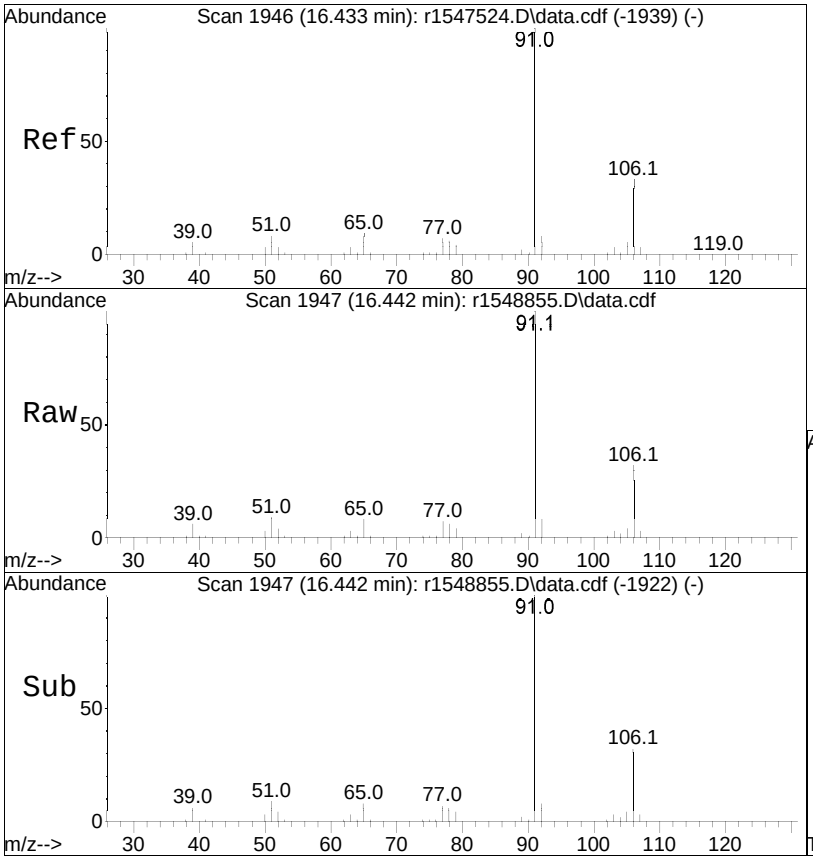


#68
toluene
Concen: 6.00 ppbV
RT: 14.308 min Scan# 1693
Delta R.T. 0.008 min
Lab File: r1548855.D
Acq: 18 Jun 2024 11:05 PM

Tgt Ion: 91 Resp: 513682

Ion	Ratio	Lower	Upper
91	100		
92	65.4	51.6	77.4

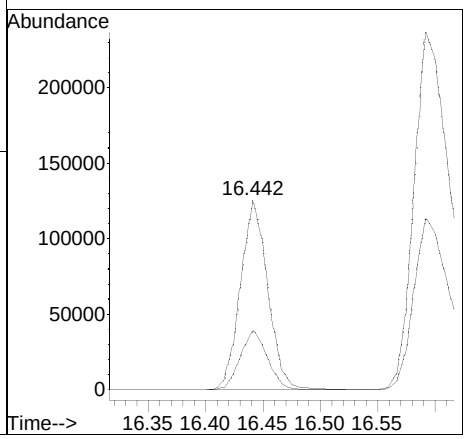


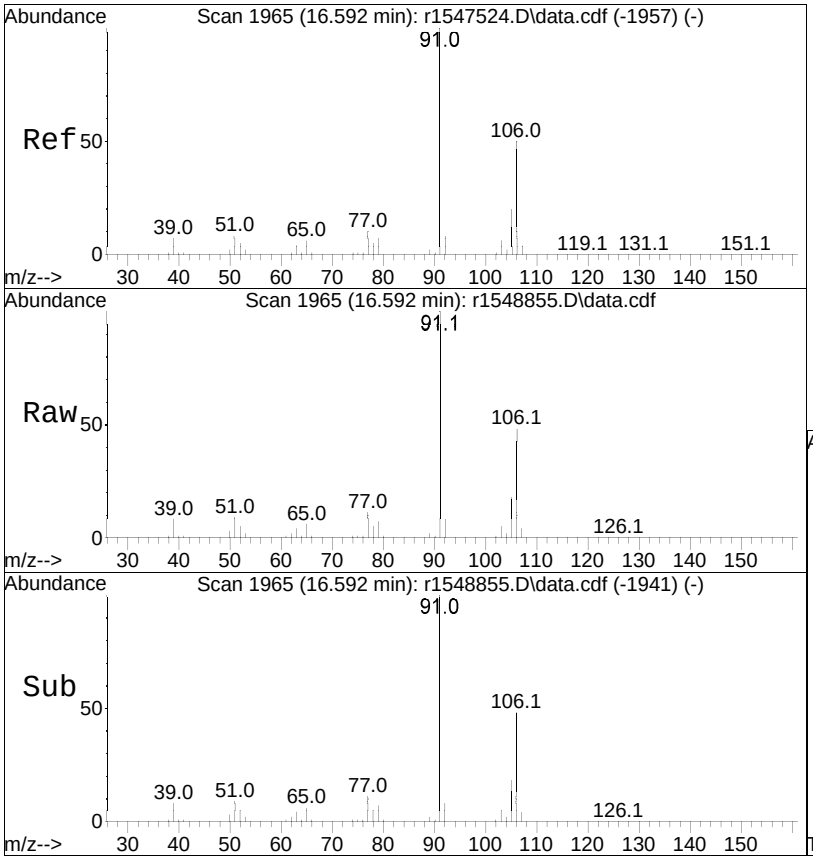


#81
ethylbenzene
Concen: 1.91 ppbV
RT: 16.442 min Scan# 1947
Delta R.T. 0.008 min
Lab File: r1548855.D
Acq: 18 Jun 2024 11:05 PM

Tgt Ion: 91 Resp: 209092

Ion	Ratio	Lower	Upper
91	100		
106	31.5	26.1	39.1

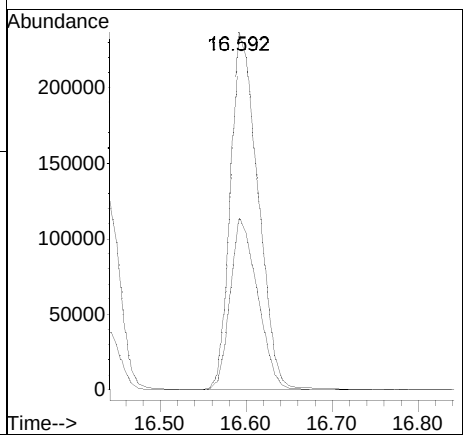


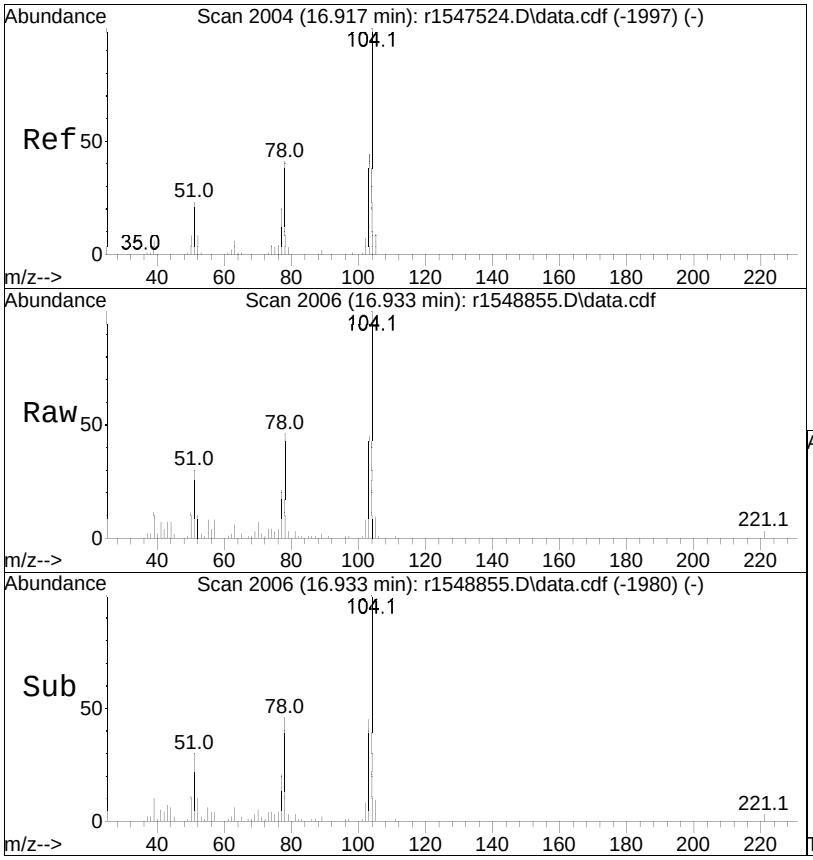


#83
m+p-xylene
Concen: 6.11 ppbV
RT: 16.592 min Scan# 1965
Delta R.T. 0.000 min
Lab File: r1548855.D
Acq: 18 Jun 2024 11:05 PM

Tgt Ion: 91 Resp: 524600

Ion	Ratio	Lower	Upper
91	100		
106	48.2	40.1	60.1

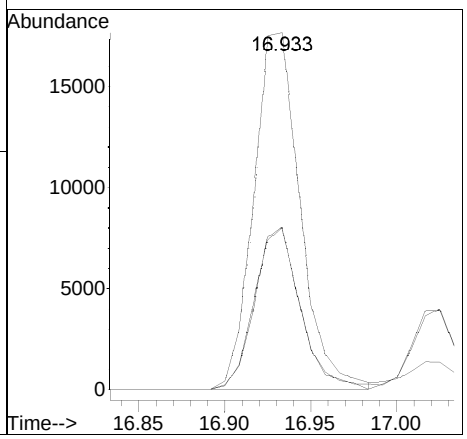


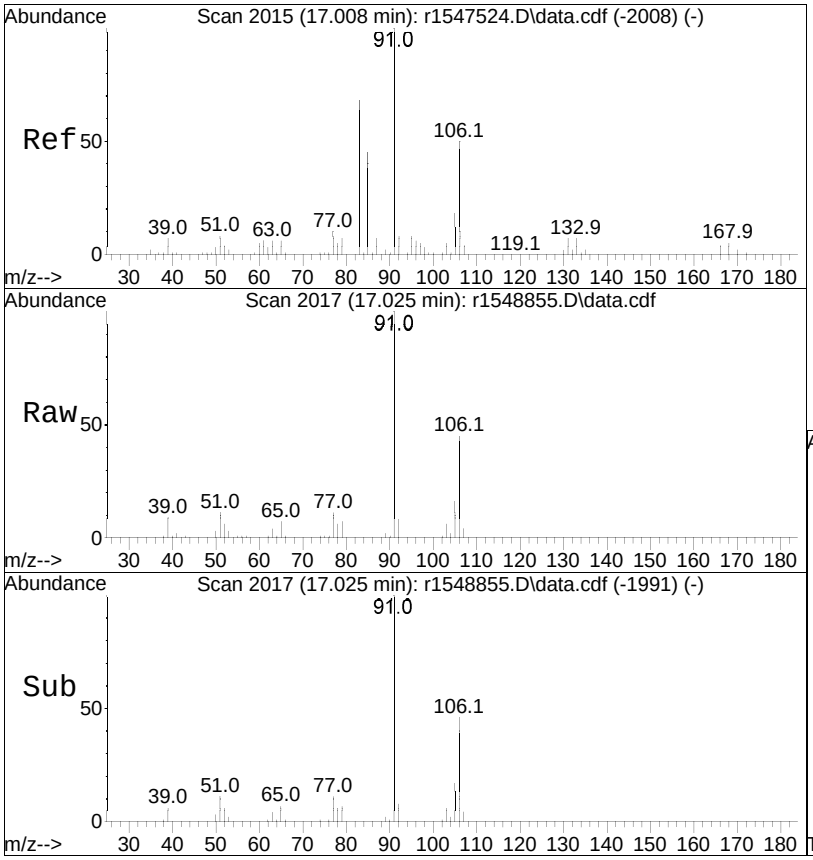


#85
styrene
Concen: 0.49 ppbV
RT: 16.933 min Scan# 2006
Delta R.T. 0.017 min
Lab File: r1548855.D
Acq: 18 Jun 2024 11:05 PM

Tgt Ion:104 Resp: 33034

Ion	Ratio	Lower	Upper
104	100		
103	45.4	35.2	52.8
78	45.6	32.6	48.8

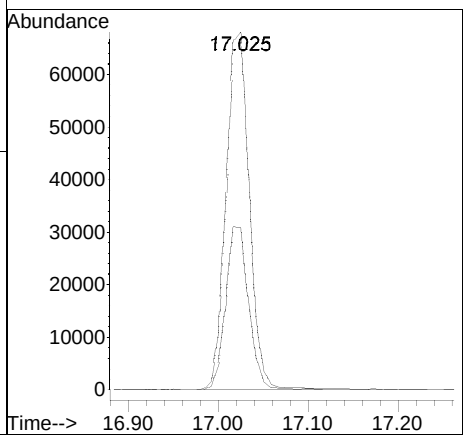


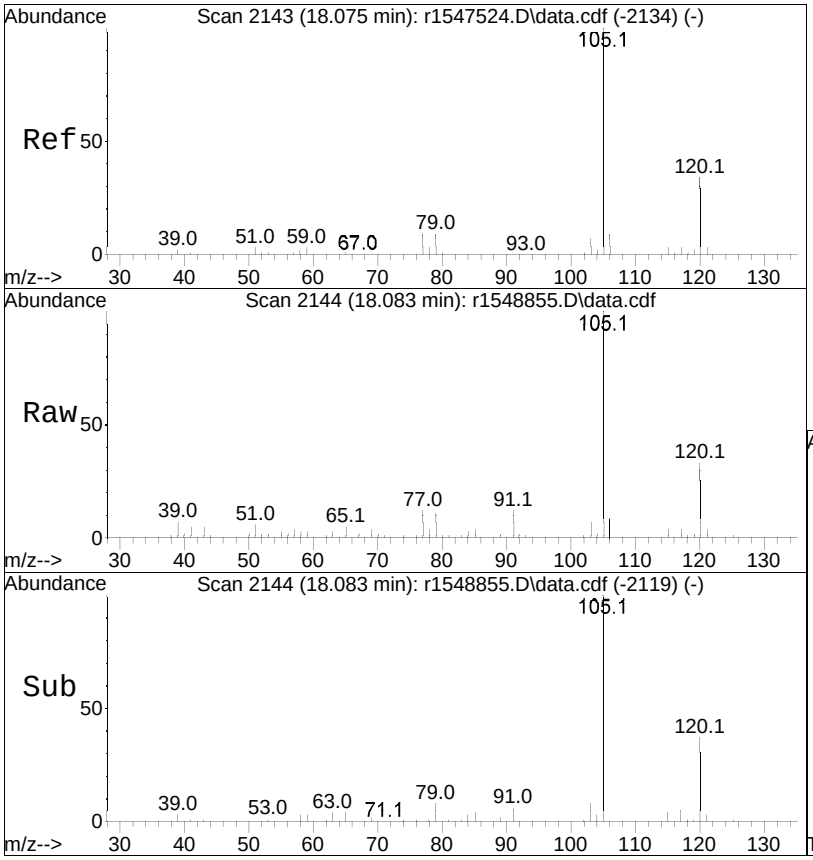


#87
o-xylene
Concen: 1.42 ppbV
RT: 17.025 min Scan# 2017
Delta R.T. 0.017 min
Lab File: r1548855.D
Acq: 18 Jun 2024 11:05 PM

Tgt Ion: 91 Resp: 122168

Ion	Ratio	Lower	Upper
91	100		
106	45.5	39.6	59.4

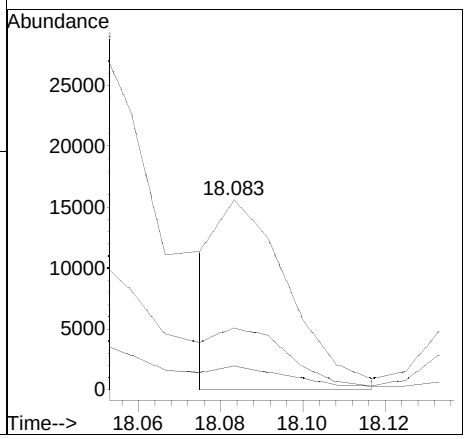


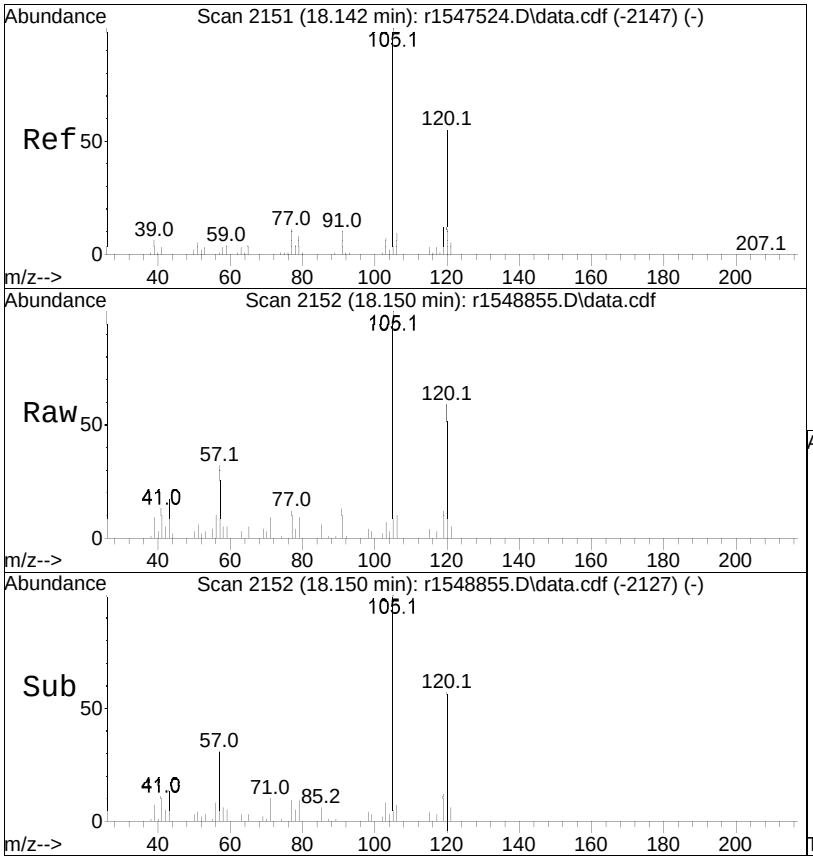


#96
4-ethyl toluene
Concen: 0.16 ppbV m
RT: 18.083 min Scan# 2144
Delta R.T. 0.008 min
Lab File: r1548855.D
Acq: 18 Jun 2024 11:05 PM

Tgt Ion:105 Resp: 18408

Ion	Ratio	Lower	Upper
105	100		
120	32.7	27.2	40.8
91	12.4	7.9	11.9#

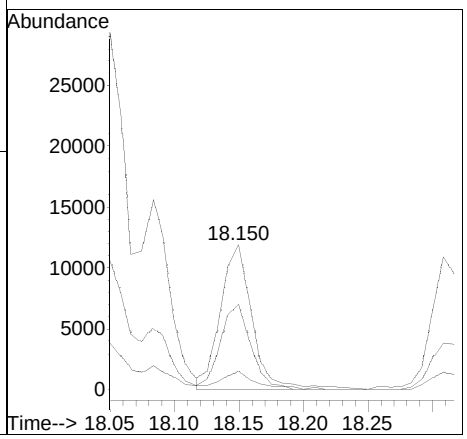


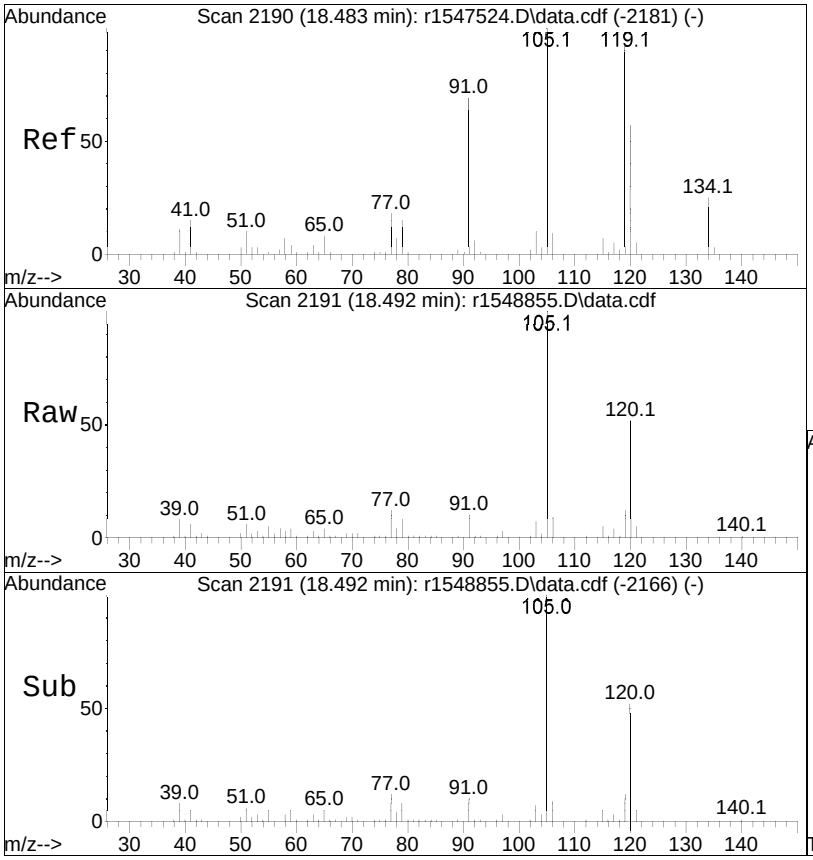


#97
1,3,5-trimethylbenzene
Concen: 0.21 ppbV
RT: 18.150 min Scan# 2152
Delta R.T. 0.008 min
Lab File: r1548855.D
Acq: 18 Jun 2024 11:05 PM

Tgt Ion:105 Resp: 23189

Ion	Ratio	Lower	Upper
105	100		
120	59.1	44.2	66.2
91	13.0	8.0	12.0#

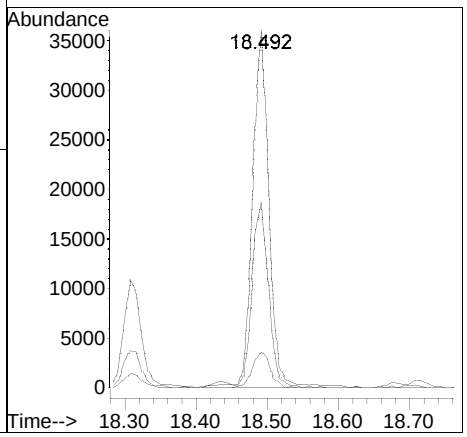




#99
1,2,4-trimethylbenzene
Concen: 0.62 ppbV
RT: 18.492 min Scan# 2191
Delta R.T. 0.008 min
Lab File: r1548855.D
Acq: 18 Jun 2024 11:05 PM

Tgt Ion:105 Resp: 57682

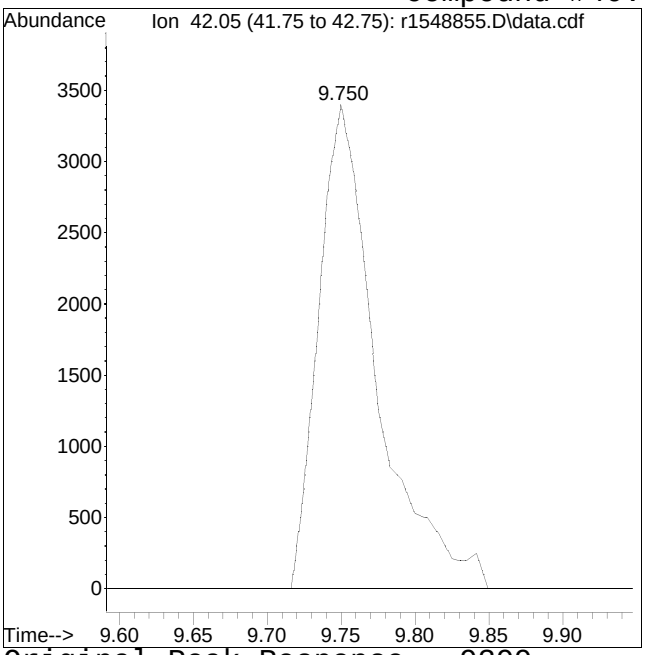
Ion	Ratio	Lower	Upper
105	100		
120	52.0	45.4	68.2
91	10.3	55.0	82.6#



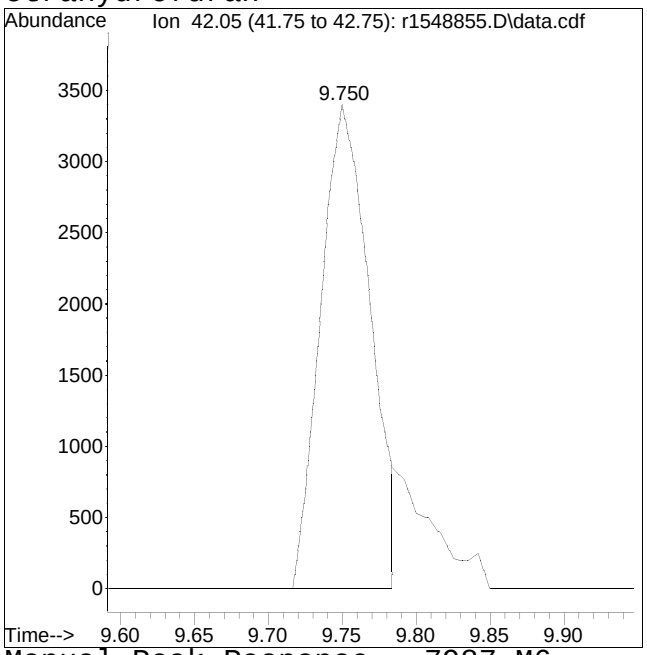
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1548855.D Operator : AIRLAB15:JMB
Date Inj'd : 6/18/2020 0:1: 5 Instrument :
Sample : WG1936045-5,3,250,250 Quant Date : 6/19/2024 7:08 am

Compound #40: Tetrahydrofuran



Original Peak Response = 9399



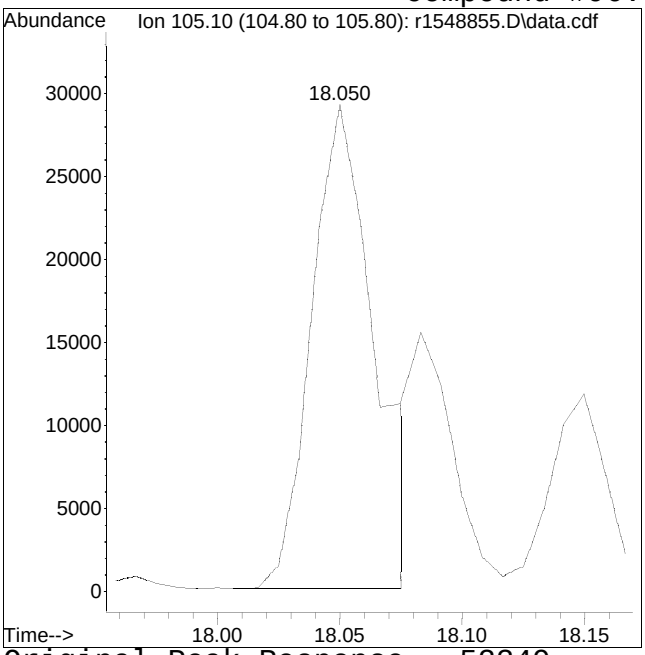
Manual Peak Response = 7987 M6

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

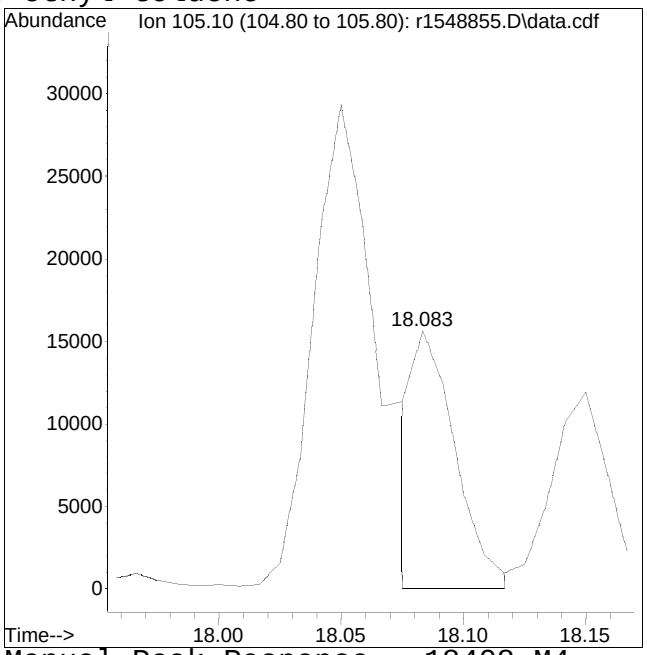
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240426.M
Data File : r1548855.D Operator : AIRLAB15:JMB
Date Inj'd : 6/18/2020 0:1: 5 Instrument :
Sample : WG1936045-5,3,250,250 Quant Date : 6/19/2024 7:08 am

Compound #96: 4-ethyl toluene



Original Peak Response = 52349



Manual Peak Response = 18408 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0620T\
Data File : r1548918.D
Acq On : 21 Jun 2024 7:42 AM
Operator : AIRLAB15:TPH
Sample : WG1937252-5D,3,100.82,250
Misc : WG1937252,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 21 09:32:43 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0620T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0620T\r1548900.D
Sub List : 5_CHLOR - .

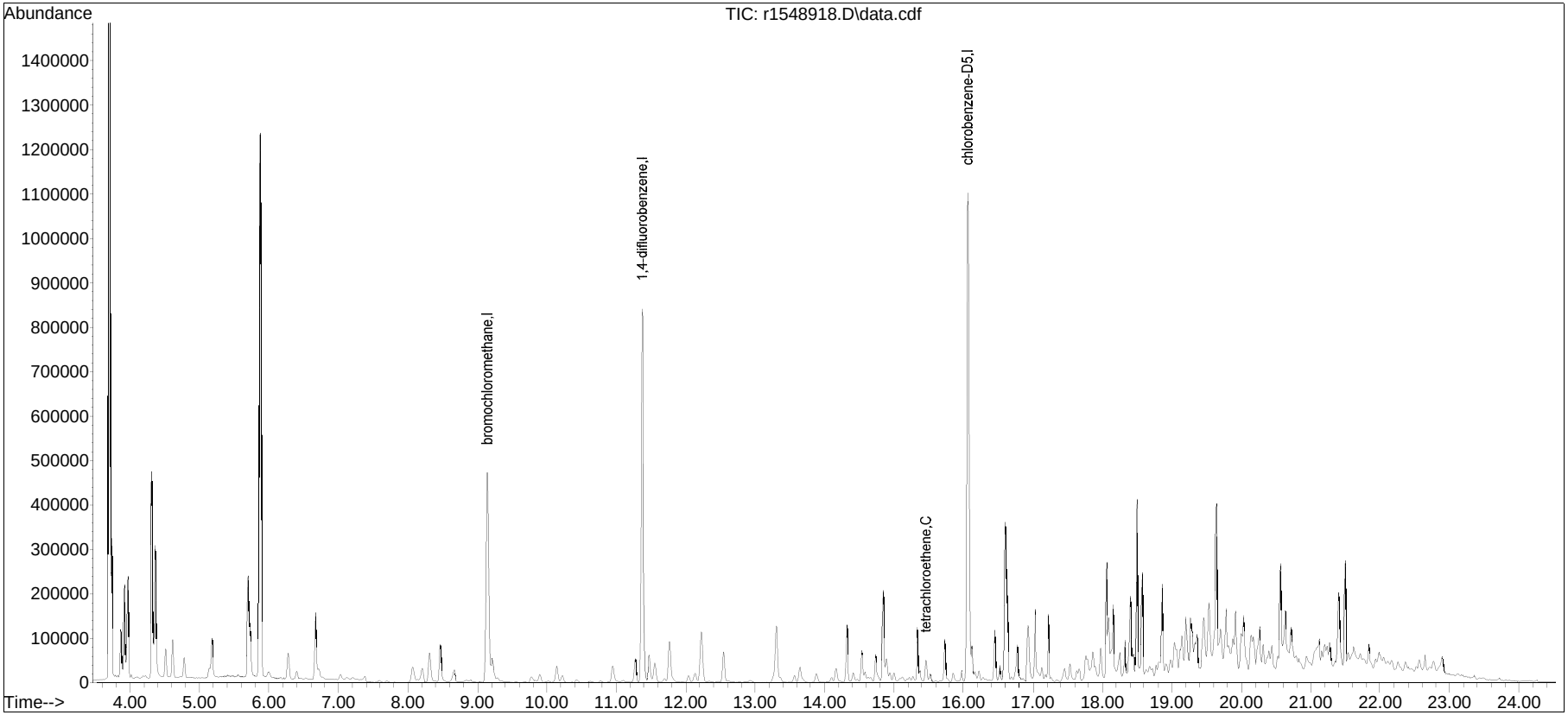
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.142	49	333104	10.000	ppbV	# 0.02
Standard Area = 349671			Recovery =		95.26%	
43) 1,4-difluorobenzene	11.373	114	821939	10.000	ppbV	0.03
Standard Area = 849696			Recovery =		96.73%	
67) chlorobenzene-D5	16.058	54	161536	10.000	ppbV	0.02
Standard Area = 163897			Recovery =		98.56%	
System Monitoring Compounds						
Target Compounds						Qvalue
9) vinyl chloride	0.000		0	N.D.		
32) trans-1,2-dichloroethene	0.000		0	N.D.		
37) cis-1,2-dichloroethene	0.000		0	N.D.		
59) trichloroethene	0.000		0	N.D.		
78) tetrachloroethene	15.458	166	15331	0.383	ppbV	98

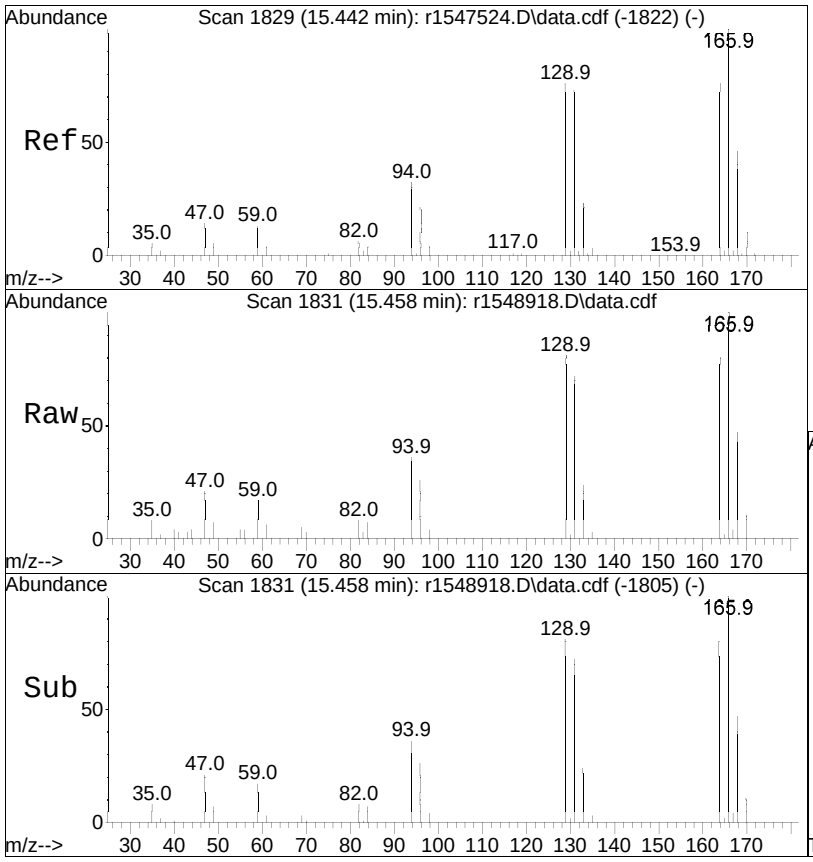
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 5_CHLOR - .s\Data\Airlab15\2024\06\0620T\r1548900.D

Data Path : O:\Forensics\Data\Airlab15\2024\06\0620T\
Data File : r1548918.D
Acq On : 21 Jun 2024 7:42 AM
Operator : AIRLAB15:TPH
Sample : WG1937252-5D,3,100.82,250
Misc : WG1937252,ICAL21074
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 21 09:32:43 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0620T\TFS15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 12:39:19 2024
Response via : Initial Calibration

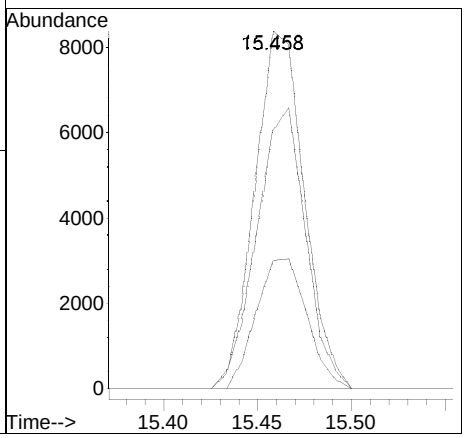




#78
tetrachloroethene
Concen: 0.38 ppbV
RT: 15.458 min Scan# 1831
Delta R.T. 0.017 min
Lab File: r1548918.D
Acq: 21 Jun 2024 7:42 AM

Tgt Ion:166 Resp: 15331

Ion	Ratio	Lower	Upper
166	100		
131	72.4	58.3	87.5
94	35.7	25.8	38.6



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab15	QMethod	: TFS15_240426.M
Data File	: r1548918.D	Operator	: AIRLAB15:TPH
Date Inj'd	: 6/21/2020 0:7: 2	Instrument	:
Sample	: WG1937252-5D,3,100.82,250	Quant Date	: 6/21/2024 9:32 am

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

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.

Result, ppbv = C_s x 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
$DF = V_{cf} / V_{ci}$
Where:
V_{ci} = volume of air in canister prior to pressurization, L
P =

Conversion of ppbv to ug/m^3
ug/m^3 = (ppbv) * 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).

$V_{ci} = 2.7 * Pl/14.696$

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)

Jun 21 2024, 01:59 pm

Work Group: WG1936045 for Department: 3 GC/MS

Created: 18-JUN-24 Due: Operator: JFI

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2430552-01	PRE-CARBON	S	TO15-LL	SOIL_VAPOR	DONE	U	0630	0617	S0	Can-6
L2430552-02	MID-CARBON	S	TO15-LL	SOIL_VAPOR	DONE	U	0630	0617	S0	Can-6
L2430552-03	POST-CARBON	S	TO15-LL	SOIL_VAPOR	DONE	U	0630	0617	S0	Can-6
L2430588-01	SS-1	S	TO15-LL	SOIL_VAPOR	DONE	U	0630	0617	S0	Can-6
L2430987-01	IA-01	S	TO15-LL	AIR	DONE	U	0704	0618	S0	Can-2.7
L2430987-02	IA-02	S	TO15-LL	AIR	DONE	U	0704	0618	S0	Can-2.7
L2430987-04	IA-04	S	TO15-LL	AIR	DONE	U	0704	0618	S0	Can-2.7
L2430987-05	OA-01	S	TO15-LL	AIR	DONE	U	0704	0618	S0	Can-2.7
L2432670-01	AA-01_20240611	S	TO15-LL	AIR	DONE	U	0711	0618	S0	Can-6
L2432670-04	IA-03_20240611	S	TO15-LL	AIR	DONE	U	0711	0618	S0	Can-6
L2432670-09	IA-08_20240611	S	TO15-LL	AIR	DONE	U	0711	0618	S0	Can-6
WG1936045-1	MS BFB Tune Standard	S	TO15-LL	AIR	DONE	U				
WG1936045-2	Continuing Calibrati	S	TO15-LL	AIR	DONE	U				
WG1936045-3	Laboratory Control S	S	TO15-LL	AIR	DONE	U				
WG1936045-4	Laboratory Method Bl	S	TO15-LL	AIR	DONE	U				
WG1936045-5	Duplicate Sample	S	TO15-LL	AIR	DONE	U				

Comments:

WG1936045-5 L2432670-06

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 21 2024, 01:59 pm

Work Group: WG1937252 for Department: 3 GC/MS

Created: 20-JUN-24 Due: Operator: JMB

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2400005-493	AIR DUMMY 493	S	TO15-LL	AIR	DONE	U	0701	0705	NC	CAN-CHOOSE
L2432670-02	IA-01_20240611	S	TO15-LL	AIR	DONE	U	0711	0618	S0	Can-6
L2432670-03	IA-02_20240611	S	TO15-LL	AIR	DONE	U	0711	0618	S0	Can-6
L2432670-05	IA-06_20240611	S	TO15-LL	AIR	DONE	U	0711	0618	S0	Can-6
L2432670-06	IA-05_20240611	S	TO15-LL	AIR	DONE	U	0711	0618	S0	Can-6
L2432670-07	IA-04_20240611	S	TO15-LL	AIR	DONE	U	0711	0618	S0	Can-6
L2432670-08	IA-07_20240611	S	TO15-LL	AIR	DONE	U	0711	0618	S0	Can-6
WG1937252-1	MS BFB Tune Standard	S	TO15-LL	AIR	DONE	U				
WG1937252-2	Continuing Calibrati	S	TO15-LL	AIR	DONE	U				
WG1937252-3	Laboratory Control S	S	TO15-LL	AIR	DONE	U				
WG1937252-4	Laboratory Method Bl	S	TO15-LL	AIR	DONE	U				
WG1937252-5	Duplicate Sample	S	TO15-LL	AIR	DONE	U				

Comments:

WG1937252-5 L2400005-493

ID:	Airlab15	Internal Standard/Surrogate IDs:	SS20-028 / SS21-026
Date:	04/26/24	Internal Standard/Surrogate Volume:	100 ml
Initials:	JMB	Sequence File Name:	240426.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	BA15042601	TO15_SFS.qgm	R1547513.qgd	250 mL			NA
1	BA15042602	TO15_SFS.qgm	R1547514.qgd	250 mL			NA
1	BA15042603	TO15_SFS.qgm	R1547515.qgd	250 mL			NA
1	TA15042601	TO15_SFS.qgm	R1547516.qgd	250 mL		TUNE	NA
5	ITO15-SIMSTD0.02	TO15_SFS.qgm	R1547517.qgd	50 mL SS24-006D	SIM ONLY	DEF	NA
5	ITO15-SIMSTD0.05	TO15_SFS.qgm	R1547518.qgd	125 mL SS24-006D	SIM ONLY	DEF	NA
5	ITO15-SIMSTD0.1	TO15_SFS.qgm	R1547519.qgd	250 mL SS24-006D	SIM ONLY	DEF	NA
6	ITO15-SIMSTD0.2	TO15_SFS.qgm	R1547520.qgd	50 mL SS24-006C		DEF	NA
6	ITO15-SIMSTD0.5	TO15_SFS.qgm	R1547521.qgd	125 mL SS24-006C		DEF	NA
6	ITO15-SIMSTD1.0	TO15_SFS.qgm	R1547522.qgd	250 mL SS24-006C		DEF	NA
7	ITO15-SIMSTD5.0	TO15_SFS.qgm	R1547523.qgd	125 mL SS24-006B		DEF	NA
7	ITO15-SIMSTD010	TO15_SFS.qgm	R1547524.qgd	250 mL SS24-006B		DEF	NA
8	ITO15-SIMSTD020	TO15_SFS.qgm	R1547525.qgd	50 mL SS24-006A		DEF	NA
8	ITO15-SIMSTD050	TO15_SFS.qgm	R1547526.qgd	125 mL SS24-006A		DEF	NA
8	ITO15-LLSTD100	TO15_SFS.qgm	R1547527.qgd	250 mL SS24-006A	LL ONLY	DEF	NA
1	BA15042601	TO15_SFS.qgm	R1547528.qgd	250 mL			NA
1	BA15042602	TO15_SFS.qgm	R1547529.qgd	250 mL			NA
2	CTO15-LLSTD10.0	TO15_SFS.qgm	R1547530.qgd	250 mL SS24-012D	LL ICV	DEF-ICV-AP2	NA
2	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1547531.qgd	125 mL SS24-012D	SIM ICV	DEF-ICV-AP2	NA

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

ID:	Airlab15	Internal Standard/Surrogate IDs:	SS20-028 / SS21-026
Date:	06/18/24	Internal Standard/Surrogate Volume:	100 ml
Initials:	JMB	Sequence File Name:	240618.S

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ sublist	ak Check Pa
1	TA15061801	TO15_SFS.qgm	R1548839.qgd	250 mL	TUNE	DO NOT USE	NA
2	APHC10STD10	TO15_SFS.qgm	R1548840.qgd	125 mL SS24-010B2	APH CC	DO NOT USE	NA
3	CA15061801	TO15_SFS.qgm	R1548841.qgd	250 mL SS24-018G	LL CC	DO NOT USE	NA
4	CTO15-LLSTD10.0	TO15_SFS.qgm	R1548842.qgd	250 mL SS24-018E	LL LCS	DO NOT USE	NA
4	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1548843.qgd	125 mL SS24-018E	SIM LCS	DO NOT USE	NA
2	APHC10STD10	TO15_SFS.qgm	R1548844.qgd	125 mL SS24-010B2	APH CC	USE AS TUNE	NA
4	CTO15-LLSTD10.0	TO15_SFS.qgm	R1548845.qgd	250 mL SS24-018E	LL LCS		NA
4	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1548846.qgd	125 mL SS24-018E	SIM LCS		NA
1	BA15061801	TO15_SFS.qgm	R1548847.qgd	250 mL	LL BLANK	DO NOT USE (CLOSED)	NA
1	BA15061802	TO15_SFS.qgm	R1548848.qgd	250 mL	LL/SIM BLANK		NA
2	L2432670-01,3,250,250	TO15_SFS.qgm	R1548849.qgd	WG1936045,ICAL21074		NY+NAPH -7SIM	Y
3	L2430987-05,3,250,250	TO15_SFS.qgm	R1548850.qgd	WG1936045,ICAL21074		NY+NAPH -7SIM	Y
4	L2432670-03,3,250,250	TO15_SFS.qgm	R1548851.qgd	WG1936045,ICAL21074	ETOH OVERCAL	NY+NAPH -7SIM	Y
5	L2432670-04,3,250,250	TO15_SFS.qgm	R1548852.qgd	WG1936045,ICAL21074		NY+NAPH -7SIM	Y
6	L2432670-05,3,250,250	TO15_SFS.qgm	R1548853.qgd	WG1936045,ICAL21074	ACETONE OVERCAL	NY+NAPH -7SIM	Y
7	L2432670-06,3,250,250	TO15_SFS.qgm	R1548854.qgd	WG1936045,ICAL21074	ACETONE OVERCAL	NY+NAPH -7SIM	Y
7	L2432670-06DUP,3,250,250	TO15_SFS.qgm	R1548855.qgd	WG1936045,ICAL21074	LL/SIM DUP	NY+NAPH -7SIM	Y

8	L2432670-07,3,250,250	TO15_SFS.qgm	R1548856.qgd	WG1936045,ICAL21074	ETOH OVERCAL	NY+NAPH -7SIM	Y
9	L2432670-08,3,250,250	TO15_SFS.qgm	R1548857.qgd	WG1936045,ICAL21074	ETOH OVERCAL	NY+NAPH -7SIM	Y
10	L2432670-09,3,250,250	TO15_SFS.qgm	R1548858.qgd	WG1936045,ICAL21074		NY+NAPH -7SIM	Y
11	L2430987-01,3,250,250	TO15_SFS.qgm	R1548859.qgd	WG1936045,ICAL21074	ETOH OVERCAL	NY+NAPH -7SIM	Y
12	L2430987-02,3,250,250	TO15_SFS.qgm	R1548860.qgd	WG1936045,ICAL21074	ETOH OVERCAL	NY+NAPH -7SIM	Y
13	L2430987-03,3,250,250	TO15_SFS.qgm	R1548861.qgd	WG1936045,ICAL21074		NY+NAPH -7SIM	Y
14	L2430987-04,3,250,250	TO15_SFS.qgm	R1548862.qgd	WG1936045,ICAL21074		NY+NAPH -7SIM	Y
15	L2432670-02,3,250,250	TO15_SFS.qgm	R1548863.qgd	WG1936045,ICAL21074	ETOH AND 2BUT OVERCAL	NY+NAPH -7SIM	Y
16	L2430552-03,3,250,250	TO15_SFS.qgm	R1548864.qgd	WG1936045,ICAL21074		NY+NAPH	Y
1	L2430552-02D,3,50,250	TO15_SFS.qgm	R1548865.qgd	WG1936045,ICAL21074	OVERDILUTED	NY+NAPH	Y
2	L2430552-01,3,250,250	TO15_SFS.qgm	R1548866.qgd	WG1936045,ICAL21074		NY+NAPH	Y
3	L2430588-01D,3,60,250	TO15_SFS.qgm	R1548867.qgd	WG1936045,ICAL21074	OVERDILUTED	NY+NAPH	Y
1	L2430552-02D,3,100,250	TO15_SFS.qgm	R1548868.qgd	WG1936045,ICAL21074	T	NY+NAPH	Y
3	L2430588-01D,3,125,250	TO15_SFS.qgm	R1548869.qgd	WG1936045,ICAL21074	T	NY+NAPH	Y
4	L2432670-03D,3,50,250	TO15_SFS.qgm	R1548870.qgd	WG1936045,ICAL21074	DID NOT RR	ETOH	Y
6	L2432670-05D,3,50,250	TO15_SFS.qgm	R1548871.qgd	WG1936045,ICAL21074	DID NOT RR	ACETONE	Y
7	L2432670-06D,3,50,250	TO15_SFS.qgm	R1548872.qgd	WG1936045,ICAL21074	DID NOT RR	ACETONE	Y
7	L2432670-06DUPD,3,50,250	TO15_SFS.qgm	R1548873.qgd	WG1936045,ICAL21074	LL DUP /DID NOT RR	ACETONE	Y
8	L2432670-07D,3,50,250	TO15_SFS.qgm	R1548874.qgd	WG1936045,ICAL21074	DID NOT RR	ETOH	Y
9	L2432670-08D,3,50,250	TO15_SFS.qgm	R1548875.qgd	WG1936045,ICAL21074	DID NOT RR	ETOH	Y
11	L2430987-01D,3,50,250	TO15_SFS.qgm	R1548870.qgd	WG1936045,ICAL21074	T	ETOH	Y
12	L2430987-02D,3,50,250	TO15_SFS.qgm	R1548871.qgd	WG1936045,ICAL21074	T	ETOH	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

ID:	Airlab15	Internal Standard/Surrogate IDs:	SS20-028 / SS21-026
Date:	06/20/24	Internal Standard/Surrogate Volume:	100 ml
Initials:	BJB	Sequence File Name:	240620.S

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ sublist	ak Check Pa
1	TA15062001	TO15_SFS.qgm	R1548898.qgd	250 mL	TUNE		NA
2	APHC10STD10	TO15_SFS.qgm	R1548899.qgd	125 mL SS24-010B2	APH CC		NA
3	CA15061901	TO15_SFS.qgm	R1548900.qgd	250 mL SS24-018G	LL CC		NA
4	CTO15-LLSTD10.0	TO15_SFS.qgm	R1548901.qgd	250 mL SS24-018E	LL LCS	13BD LOW VIA APH	NA
4	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1548902.qgd	125 mL SS24-018E	SIM LCS		NA
1	BA15062001	TO15_SFS.qgm	R1548903.qgd	250 mL	LL BLANK		NA
1	BA15062002	TO15_SFS.qgm	R1548904.qgd	250 mL	SIM BLANK		NA
1	L2430693-01,3,250,250	TO15_SFS.qgm	R1548905.qgd	WG1937247,ICAL21074		BENZ	Y
2	L2432670-03D,3,50,250	TO15_SFS.qgm	R1548906.qgd	WG1937252,ICAL21074		ETOH	Y
3	L2432670-05D,3,50,250	TO15_SFS.qgm	R1548907.qgd	WG1937252,ICAL21074		ACETONE	Y
4	L2432670-06D,3,50,250	TO15_SFS.qgm	R1548908.qgd	WG1937252,ICAL21074		ACETONE	Y
5	L2432670-07D,3,50,250	TO15_SFS.qgm	R1548909.qgd	WG1937252,ICAL21074		ETOH	Y
6	L2432670-08D,3,50,250	TO15_SFS.qgm	R1548910.qgd	WG1937252,ICAL21074		ETOH	Y
7	L2432670-02D,3,3.3,250	TO15_SFS.qgm	R1548911.qgd	WG1937252,ICAL21074		ETOH+ 2BUT	Y
8	L2430559-01,3,250,250	TO15_SFS.qgm	R1548912.qgd	WG1937249,ICAL21075		APH/NAPH+ 13BD BY SIM	Y
9	L2430559-02,3,250,250	TO15_SFS.qgm	R1548913.qgd	WG1937249,ICAL21075		APH/NAPH+ 13BD BY SIM	Y
10	L2430987-01D,3,25,250	TO15_SFS.qgm	R1548914.qgd	WG1937252,ICAL21074		ETOH	Y

11	L2433944-01D,3,84.69,250	TO15_SFS.qgm	R1548915.qgd	WG1937247,ICAL21074	OVERDILUTED	5 CHLOR	Y
11	L2433944-01DUPD,3,84.69,250	TO15_SFS.qgm	R1548916.qgd	WG1937247,ICAL21074	OVERDILUTED	5 CHLOR	Y
11	L2433944-01D,3,100.82,250	TO15_SFS.qgm	R1548917.qgd	WG1937247,ICAL21074		5 CHLOR	Y
11	L2433944-01DUPD,3,100.82,250	TO15_SFS.qgm	R1548918.qgd	WG1937247,ICAL21074	NJ DUP (DUMMY)	5 CHLOR	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, Inc.
Canister Dilution Worksheet

	NJDEP Required Information							Pressurization Dilution				Can Dilution				Instrument Dilution						
Sample ID	Can size, L	P_1, in Hg	P_1, atm	V_1, L	P_2, in Hg	P_2, atm	V_2, L	P_1, psia	P_2, psia	Dilution factor	Gas Used*	Volume injected, mL	Final Pressure, psia	Volume of Dilution Gas in Can, L	Can dilution factor	Volume of Bag or Can Analyzed, mL	Instrument Dilution Factor	Final Dilution Factor **	Final Volume Injected, mL ***	Analyst Initials	Barcode	SAMPLE ID SCANS
L2432670-02D	6.0	-7.90	0.74	4.42	30.06	2.00	12.02	10.8	29.4	2.72	N2	200	29.4	2.00	10.02	90	2.78	75.77	3.30	BJB	#NAME?	l2432670-02a
																					#NAME?	
																					#NAME?	
																					#NAME?	
																					#NAME?	
																					#NAME?	
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																					#NAME?	
																					#NAME?	

*N2 = Nitrogen and H2= Hydrogen

** Dilution factor on this spreadsheet may differ from reported dilution factor (calculated by LIMs) due to different rounding rules

*** Reported to 2 decimal places unless 0.01 or less; then 3 decimal places are reported

Analyst data input fields

Analyst Comments: ______________________________

in Hg = ((psia/14.67)*29.94)-29.94 atm =psia/14.67 psig=psia - 14.67 psia = dilution instrument reading

Form# 117-05
6/21/2024 1:50 PM

GC/MS VOA
Air Analysis
Selective Ion Monitoring

Volatiles QC Summary

Lab Duplicate Sample Summary
Form 3
Air Volatiles

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Client Sample ID	: IA-05_20240611	**Matrix (Level)**	: AIR (LOW)
Lab Sample ID	: L2432670-06	**Analysis Date**	: 06/18/24 22:27
Lab File ID	: R1548854_EV2	**DUP File ID**	: r1548855_Ev2
Dup Sample ID	: WG1936046-5	**DUP Analysis Date**	: 06/18/24 23:05

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
Vinyl chloride	ND	ND	NC	25
1,1-Dichloroethene	ND	ND	NC	25
cis-1,2-Dichloroethene	ND	ND	NC	25
1,1,1-Trichloroethane	ND	ND	NC	25
Carbon tetrachloride	0.068	0.065	5	25
Trichloroethene	ND	ND	NC	25
Tetrachloroethene	0.248	0.242	2	25

Laboratory Control Sample Summary
Form 3
Air Volatiles

Client	: AKRF, Inc.			**Lab Number**	: L2432670
Project Name	: BUD NORTH			**Project Number**	: 200112
Matrix (Level)	: AIR (LOW)				
LCS Sample ID	: WG1936046-3	**Analysis Date**	: 06/18/24 15:11	**File ID**	: r1548846_Ev2
LCSD Sample ID	:	**Analysis Date**	:	**File ID**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (ppbV)**	**Found (ppbV)**	**%R**	**True (ppbV)**	**Found (ppbV)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Vinyl chloride	5	4.82	96				-	70-130	25
1,1-Dichloroethene	5	4.86	97				-	70-130	25
cis-1,2-Dichloroethene	5	4.81	96				-	70-130	25
1,1,1-Trichloroethane	5	4.62	92				-	70-130	25
Carbon tetrachloride	5	4.65	93				-	70-130	25
Trichloroethene	5	4.74	95				-	70-130	25
Tetrachloroethene	5	4.36	87				-	70-130	25

Method Blank Summary
Form 4
Air Volatiles

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab Sample ID	: WG1936046-4	**Lab File ID**	: r1548848_Ev2
Instrument ID	: AIRLAB15		
Matrix	: AIR	**Analysis Date**	: 06/18/24 18:43

Client Sample No.	Lab Sample ID	Analysis Date
WG1936046-3LCS	WG1936046-3	06/18/24 15:11
AA-01_20240611	L2432670-01	06/18/24 19:20
IA-02_20240611	L2432670-03	06/18/24 20:35
IA-03_20240611	L2432670-04	06/18/24 21:12
IA-06_20240611	L2432670-05	06/18/24 21:50
IA-05_20240611	L2432670-06	06/18/24 22:27
IA-05_20240611DUP	WG1936046-5	06/18/24 23:05
IA-04_20240611	L2432670-07	06/18/24 23:43
IA-07_20240611	L2432670-08	06/19/24 00:21
IA-08_20240611	L2432670-09	06/19/24 00:59
IA-01_20240611	L2432670-02	06/19/24 04:07

Instrument Performance Check (Tune) Summary
Form 5
Air Volatiles
Bromofluorobenzene (BFB)

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Instrument ID	: AIRLAB15	**Analysis Date**	: 04/26/24 19:53
Tune Standard	: WG1914197-1	**Tune File ID**	: r1547516_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	12.4
75	30.0 - 66.0% of mass 95	33.7
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 (.5)1
174	50.0 - 120.0% of mass 95	68.6
175	4.0 - 9.0% of mass 174	4.6 (6.7)1
176	93.0 - 101% of mass 174	64.5 (94.1)1
177	5.0 - 9.0% of mass 176	4.3 (6.6)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.02	R1822267-1	R1547517_EV2	04/26/24 20:31
STD0.05	R1822267-2	R1547518_EV2	04/26/24 21:10
STD0.1	R1822267-3	R1547519_EV2	04/26/24 21:51
STD0.2	R1822267-4	R1547520_EV2	04/26/24 22:31
STD0.5	R1822267-6	R1547521_EV2	04/26/24 23:12
STD1.0	R1822267-5	R1547522_EV2	04/26/24 23:56
STD5.0	R1822267-8	R1547523_EV2	04/27/24 00:38
STD010	R1822267-7	R1547524_EV2	04/27/24 01:22
STD020	R1822267-9	R1547525_EV2	04/27/24 02:02
STD050	R1822267-10	R1547526_EV2	04/27/24 02:43
ICV QUANT	R1822267-11	R1547531_EV2	04/27/24 11:06

Instrument Performance Check (Tune) Summary
Form 5
Air Volatiles
Bromofluorobenzene (BFB)

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Instrument ID	: AIRLAB15	**Analysis Date**	: 06/18/24 13:54
Tune Standard	: WG1936046-1	**Tune File ID**	: r1548844_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	13.6
75	30.0 - 66.0% of mass 95	33.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.4 (.6)1
174	50.0 - 120.0% of mass 95	64
175	4.0 - 9.0% of mass 174	4.4 (6.9)1
176	93.0 - 101% of mass 174	63.3 (98.9)1
177	5.0 - 9.0% of mass 176	4.2 (6.6)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1936046-2CCAL	WG1936046-2	R1548846_EV2	06/18/24 15:11
WG1936046-3LCS	WG1936046-3	R1548846_EV2	06/18/24 15:11
WG1936046-4BLANK	WG1936046-4	R1548848_EV2	06/18/24 18:43
AA-01_20240611	L2432670-01	R1548849_EV2	06/18/24 19:20
IA-02_20240611	L2432670-03	R1548851_EV2	06/18/24 20:35
IA-03_20240611	L2432670-04	R1548852_EV2	06/18/24 21:12
IA-06_20240611	L2432670-05	R1548853_EV2	06/18/24 21:50
IA-05_20240611	L2432670-06	R1548854_EV2	06/18/24 22:27
WG1936046-5DUP	WG1936046-5	R1548855_EV2	06/18/24 23:05
IA-04_20240611	L2432670-07	R1548856_EV2	06/18/24 23:43
IA-07_20240611	L2432670-08	R1548857_EV2	06/19/24 00:21
IA-08_20240611	L2432670-09	R1548858_EV2	06/19/24 00:59
IA-01_20240611	L2432670-02	R1548863_EV2	06/19/24 04:07

Internal Standard Area and RT Summary
Form 8a
Air Volatiles

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Instrument ID	: AIRLAB15	**Analysis Date**	: 06/18/24 15:11:00
Sample No	: WG1936046-2	**Lab File ID**	: R1548846_EV2

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG1936046-2	187392	9.13	532871	11.37	89053	16.05
Upper Limit	262349	9.46	746019	11.70	124674	16.38
Lower Limit	112435	8.80	319723	11.04	53432	15.72
Sample ID						
WG1936046-3 LCS	187392	9.13	532871	11.37	89053	16.05
WG1936046-4 BLANK	180715	9.13	499348	11.37	83782	16.05
AA-01_20240611	171409	9.13	470398	11.37	78765	16.05
IA-02_20240611	178017	9.13	490627	11.37	85423	16.05
IA-03_20240611	174450	9.13	483050	11.37	83560	16.05
IA-06_20240611	176199	9.13	473297	11.37	82387	16.05
IA-05_20240611	175723	9.13	472304	11.37	81584	16.05
IA-05_20240611 DUP	177743	9.13	478755	11.37	83027	16.05
IA-04_20240611	176534	9.13	474090	11.37	83496	16.05
IA-07_20240611	176336	9.13	467076	11.37	82985	16.05
IA-08_20240611	177332	9.13	468928	11.37	83216	16.05
IA-01_20240611	183820	9.13	495948	11.37	88747	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

Date Created: 01/09/24
Created By: Jason Hebert
File: PM15856-1
Page: 1

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.

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	GCDAI06	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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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		
sec-Butylbenzene	135-98-8	0.2	0.0266	ppbV	70-130	25		25	25			
Isopropylbenzene	98-82-8	0.2	0.0299	ppbV	70-130	25		25	25			
Xylene (Total)	1330-20-7	0.02	0.0087	ppbV				25	25			
p-Isopropyltoluene	99-87-6	0.2	0.0366	ppbV	70-130	25		25	25			
Acetone	67-64-1	1	0.539	ppbV	40-160	25		25	25			
2-Butanone	78-93-3	0.5	0.132	ppbV	70-130	25		25	25			
4-Methyl-2-pentanone	108-10-1	0.5	0.191	ppbV	70-130	25		25	25			
1,2,3-Trichlorobenzene	87-61-6	0.05	0.0223	ppbV	70-130	25		25	25			
Acrolein	107-02-8	0.05	0.0387	ppbV	60-113	25		25	25			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
Bromofluorobenzene	*460-00-4*									*70-130*		

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	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: L2432670-01	**Date Collected**	: 06/11/24 14:06
Client ID	: AA-01_20240611	**Date Received**	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	**Date Analyzed**	: 06/18/24 19:20
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: JMB
Lab File ID	: R1548849_EV2	**Instrument ID**	: AIRLAB15
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.068	0.020	--	0.428	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.528	0.020	--	3.58	0.136	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: L2432670-02	**Date Collected**	: 06/11/24 14:12
Client ID	: IA-01_20240611	**Date Received**	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	**Date Analyzed**	: 06/19/24 04:07
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: JMB
Lab File ID	: R1548863_EV2	**Instrument ID**	: AIRLAB15
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.067	0.020	--	0.421	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: L2432670-03	**Date Collected**	: 06/11/24 13:24
Client ID	: IA-02_20240611	**Date Received**	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	**Date Analyzed**	: 06/18/24 20:35
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: JMB
Lab File ID	: R1548851_EV2	**Instrument ID**	: AIRLAB15
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.062	0.020	--	0.390	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: L2432670-04	**Date Collected**	: 06/11/24 14:18
Client ID	: IA-03_20240611	**Date Received**	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	**Date Analyzed**	: 06/18/24 21:12
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: JMB
Lab File ID	: R1548852_EV2	**Instrument ID**	: AIRLAB15
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.063	0.020	--	0.396	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.067	0.020	--	0.454	0.136	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: L2432670-05	**Date Collected**	: 06/11/24 14:22
Client ID	: IA-06_20240611	**Date Received**	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	**Date Analyzed**	: 06/18/24 21:50
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: JMB
Lab File ID	: R1548853_EV2	**Instrument ID**	: AIRLAB15
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.062	0.020	--	0.390	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.458	0.020	--	3.11	0.136	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: L2432670-06	**Date Collected**	: 06/11/24 14:36
Client ID	: IA-05_20240611	**Date Received**	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	**Date Analyzed**	: 06/18/24 22:27
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: JMB
Lab File ID	: R1548854_EV2	**Instrument ID**	: AIRLAB15
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.068	0.020	--	0.428	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.248	0.020	--	1.68	0.136	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: L2432670-07	**Date Collected**	: 06/11/24 14:25
Client ID	: IA-04_20240611	**Date Received**	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	**Date Analyzed**	: 06/18/24 23:43
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: JMB
Lab File ID	: R1548856_EV2	**Instrument ID**	: AIRLAB15
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.066	0.020	--	0.415	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.041	0.020	--	0.278	0.136	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: L2432670-08	**Date Collected**	: 06/11/24 14:27
Client ID	: IA-07_20240611	**Date Received**	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	**Date Analyzed**	: 06/19/24 00:21
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: JMB
Lab File ID	: R1548857_EV2	**Instrument ID**	: AIRLAB15
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.068	0.020	--	0.428	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.114	0.020	--	0.773	0.136	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: L2432670-09	**Date Collected**	: 06/11/24 14:38
Client ID	: IA-08_20240611	**Date Received**	: 06/11/24
Sample Location	: 2-10 54TH AVE, LONG ISLAND CITY, NY	**Date Analyzed**	: 06/19/24 00:59
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: JMB
Lab File ID	: R1548858_EV2	**Instrument ID**	: AIRLAB15
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.066	0.020	--	0.415	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.607	0.020	--	4.12	0.136	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: WG1936046-4	**Date Collected**	: NA
Client ID	: WG1936046-4BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/18/24 18:43
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: JMB
Lab File ID	: R1548848_EV2	**Instrument ID**	: AIRLAB15
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	ND	0.020	--	ND	0.126	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: AKRF, Inc.	**Lab Number**	: L2432670
Project Name	: BUD NORTH	**Project Number**	: 200112
Lab ID	: WG1936046-5	**Date Collected**	: 06/11/24 14:36
Client ID	: IA-05_20240611DUP	**Date Received**	: 06/11/24
Sample Location	:	**Date Analyzed**	: 06/18/24 23:05
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: JMB
Lab File ID	: R1548855_EV2	**Instrument ID**	: AIRLAB15
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.065	0.020	--	0.409	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.242	0.020	--	1.64	0.136	--	

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618SIM\
Data File : r1548849_Ev2.D
Acq On : 18 Jun 2024 7:20 PM
Operator : AIRLAB15:JMB
Sample : L2432670-01,3,250,250
Misc : WG1936046,ICAL21075
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:23:58 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618SIM\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618SIM\r1548846_Ev2.D
Sub List : 7-NY-SIM - .

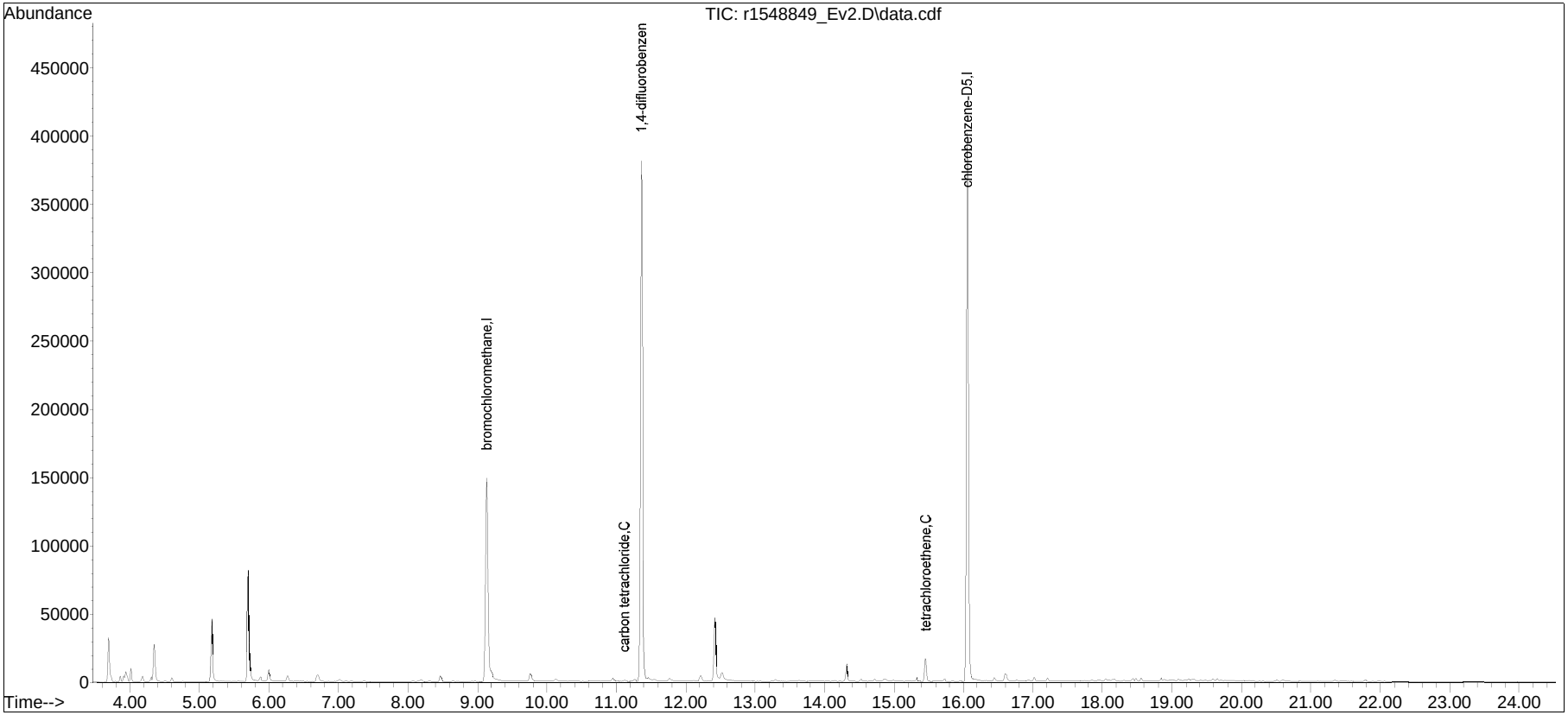
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.133	49	171409	10.000	ppbV	0.03
Standard Area = 187392			Recovery =		91.47%	
33) 1,4-difluorobenzene	11.367	114	470398	10.000	ppbV	0.02
Standard Area = 532871			Recovery =		88.28%	
51) chlorobenzene-D5	16.050	54	78765	10.000	ppbV	0.02
Standard Area = 89053			Recovery =		88.45%	
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	0.000		0	N.D.		
17) 1,1-dichloroethene	0.000		0	N.D.		
28) cis-1,2-dichloroethene	0.000		0	N.D.		
36) 1,1,1-trichloroethane	0.000		0	N.D.		
38) carbon tetrachloride	11.113	117	919	0.068	ppbV #	94
44) trichloroethene	0.000		0	N.D.		
57) tetrachloroethene	15.458	166	9870	0.528	ppbV	97

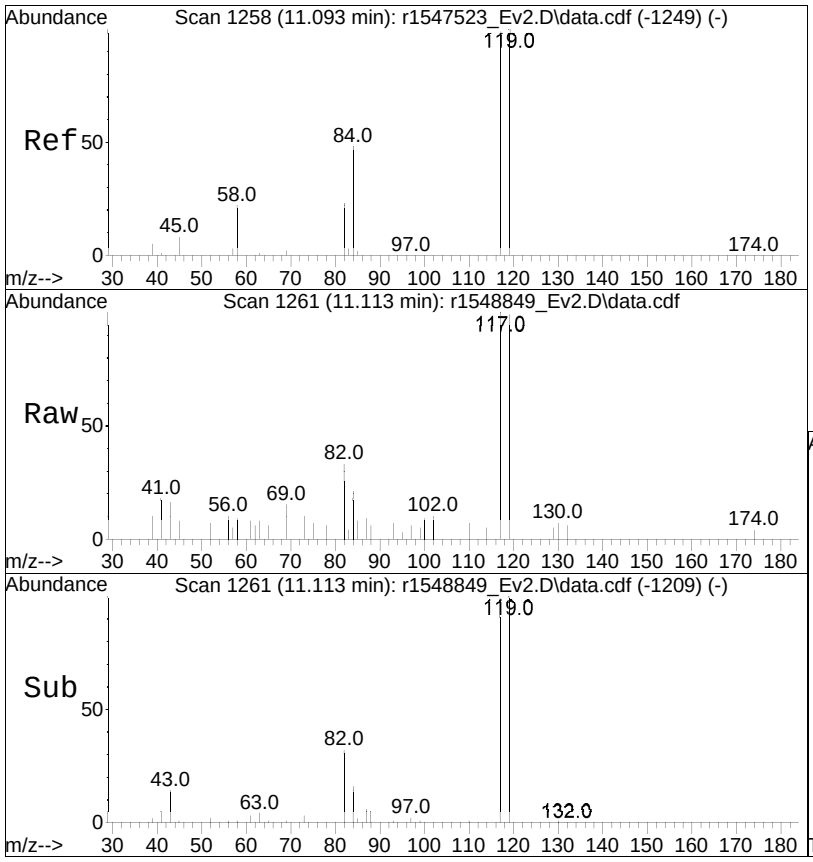
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab15\2024\06\0618SIM\r1548846_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618SIM\
Data File : r1548849_Ev2.D
Acq On : 18 Jun 2024 7:20 PM
Operator : AIRLAB15:JMB
Sample : L2432670-01,3,250,250
Misc : WG1936046,ICAL21075
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:23:58 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618SIM\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 2024
Response via : Initial Calibration

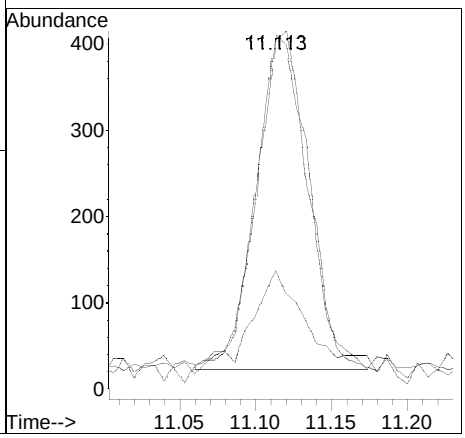


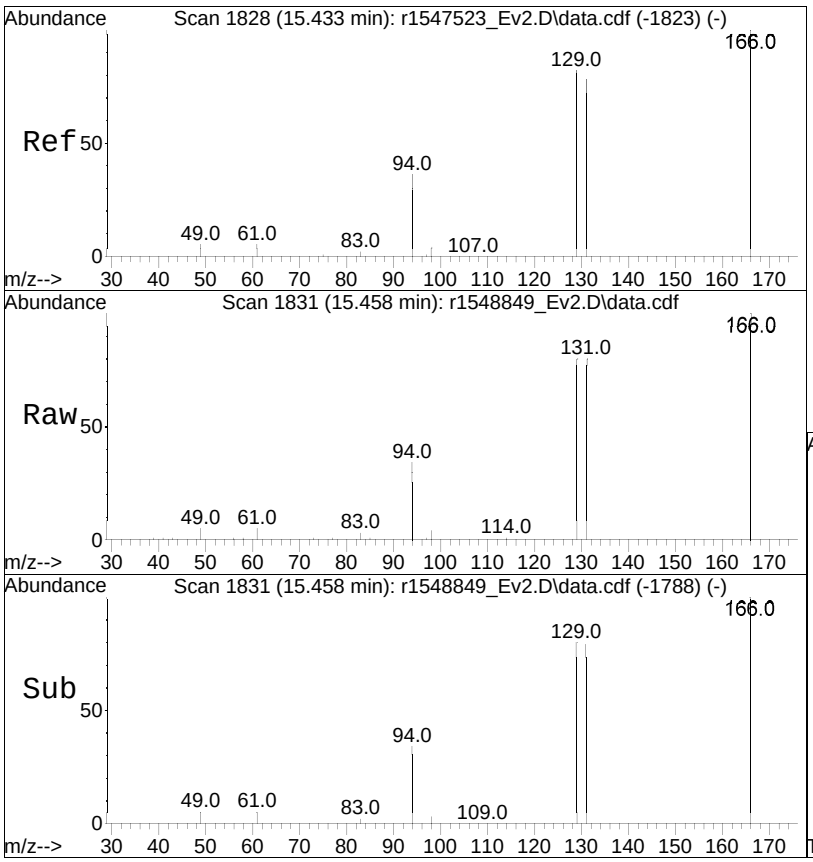


#38
carbon tetrachloride
Concen: 0.07 ppbV
RT: 11.113 min Scan# 1261
Delta R.T. 0.020 min
Lab File: r1548849_Ev2.D
Acq: 18 Jun 2024 7:20 PM

Tgt Ion:117 Resp: 919

Ion	Ratio	Lower	Upper
117	100		
119	98.8	80.8	121.2
82	33.4	18.5	27.7#

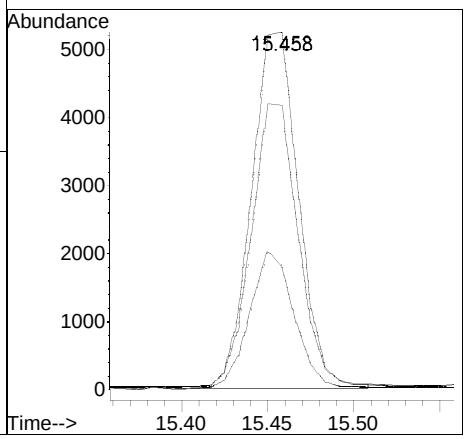




#57
tetrachloroethene
Concen: 0.53 ppbV
RT: 15.458 min Scan# 1831
Delta R.T. 0.025 min
Lab File: r1548849_Ev2.D
Acq: 18 Jun 2024 7:20 PM

Tgt Ion:166 Resp: 9870

Ion	Ratio	Lower	Upper
166	100		
131	79.5	62.0	93.0
94	34.5	29.0	43.4



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab15	QMethod	: TSIM15_240426.M
Data File	: r1548849_Ev2.D	Operator	: AIRLAB15:JMB
Date Inj'd	: 6/18/2020 0:7: 0	Instrument	:
Sample	: L2432670-01,3,250,250	Quant Date	: 6/19/2024 7:23 am

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618SIM\
Data File : r1548851_Ev2.D
Acq On : 18 Jun 2024 8:35 PM
Operator : AIRLAB15:JMB
Sample : L2432670-03,3,250,250
Misc : WG1936046,ICAL21075
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:24:11 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618SIM\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618SIM\r1548846_Ev2.D
Sub List : 7-NY-SIM - .

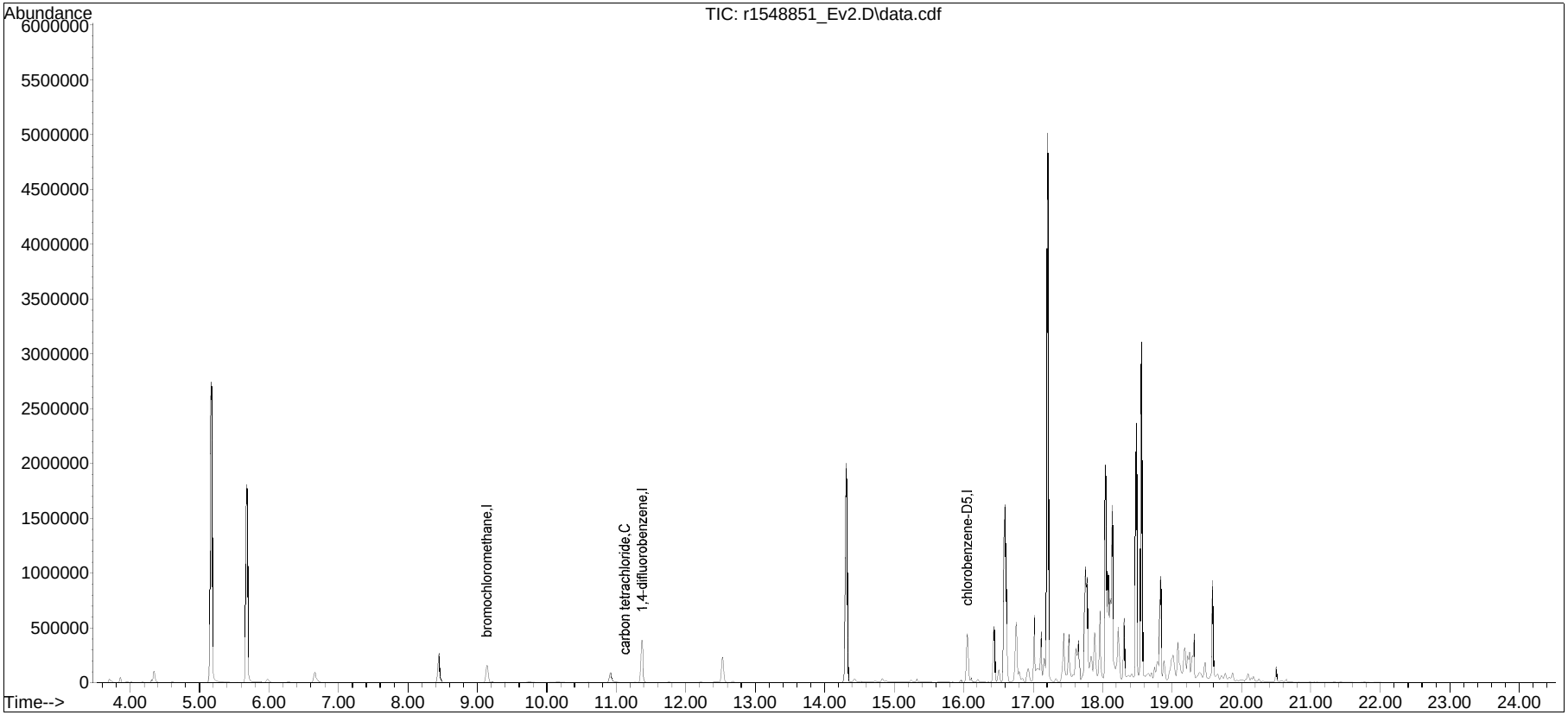
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.133	49	178017	10.000	ppbV	0.03
Standard Area = 187392			Recovery =		95.00%	
33) 1,4-difluorobenzene	11.373	114	490627	10.000	ppbV	0.03
Standard Area = 532871			Recovery =		92.07%	
51) chlorobenzene-D5	16.050	54	85423	10.000	ppbV	0.02
Standard Area = 89053			Recovery =		95.92%	
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	0.000		0	N.D.		
17) 1,1-dichloroethene	0.000		0	N.D.	d	
28) cis-1,2-dichloroethene	0.000		0	N.D.		
36) 1,1,1-trichloroethane	0.000		0	N.D.		
38) carbon tetrachloride	11.120	117	872M4	0.062	ppbV	
44) trichloroethene	0.000		0	N.D.		
57) tetrachloroethene	15.450		0	N.D.		

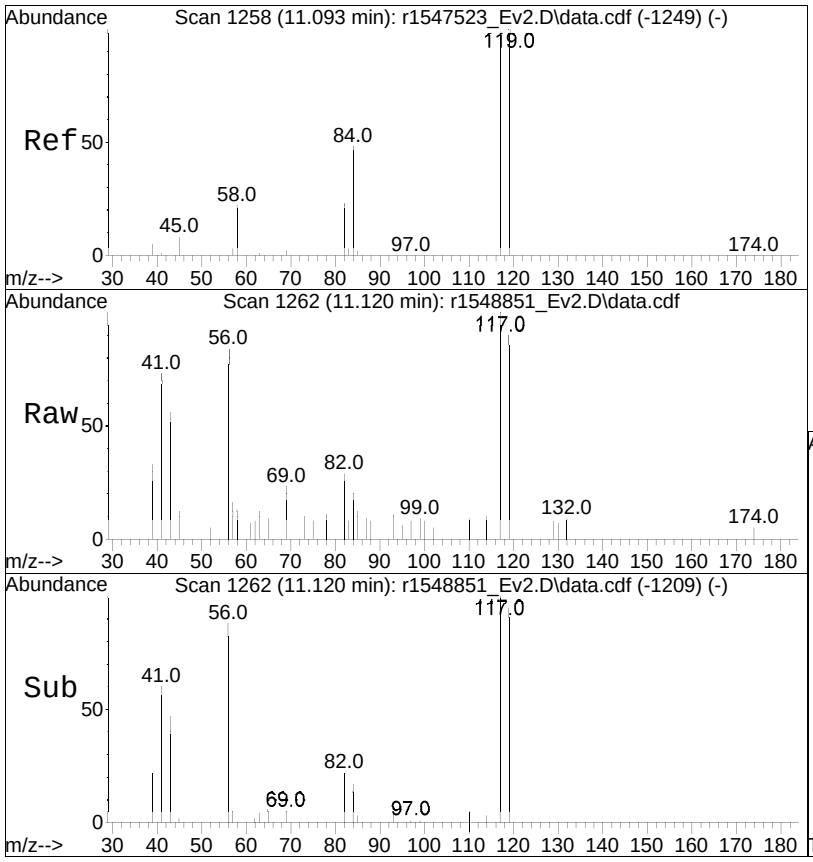
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab15\2024\06\0618SIM\r1548846_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618SIM\
Data File : r1548851_Ev2.D
Acq On : 18 Jun 2024 8:35 PM
Operator : AIRLAB15:JMB
Sample : L2432670-03,3,250,250
Misc : WG1936046,ICAL21075
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:24:11 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618SIM\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 2024
Response via : Initial Calibration

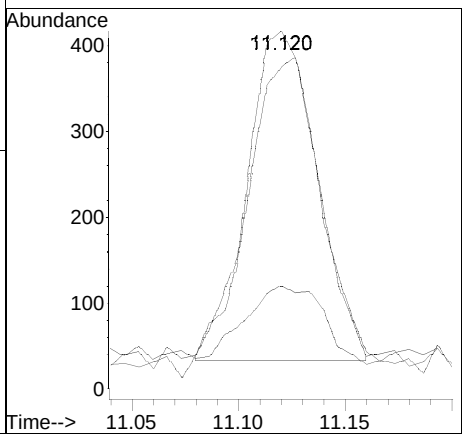




#38
carbon tetrachloride
Concen: 0.06 ppbV m
RT: 11.120 min Scan# 1262
Delta R.T. 0.027 min
Lab File: r1548851_Ev2.D
Acq: 18 Jun 2024 8:35 PM

Tgt Ion:117 Resp: 872

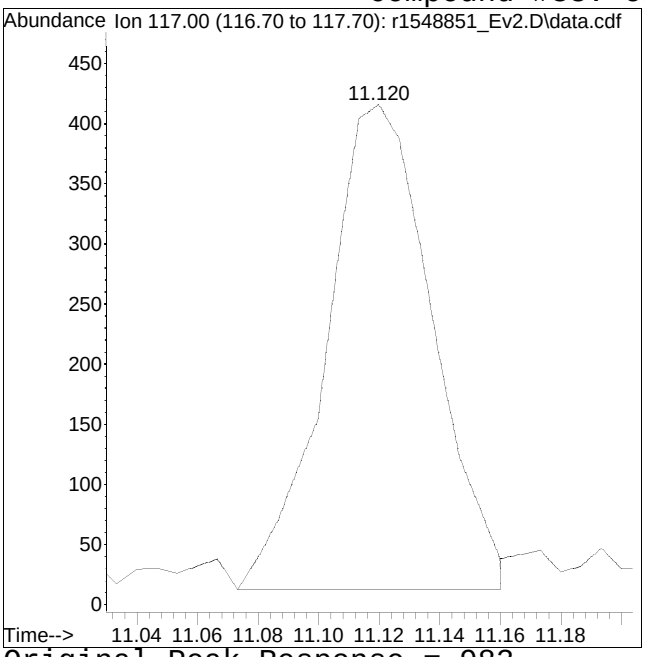
Ion	Ratio	Lower	Upper
117	100		
119	90.1	80.8	121.2
82	28.8	18.5	27.7#



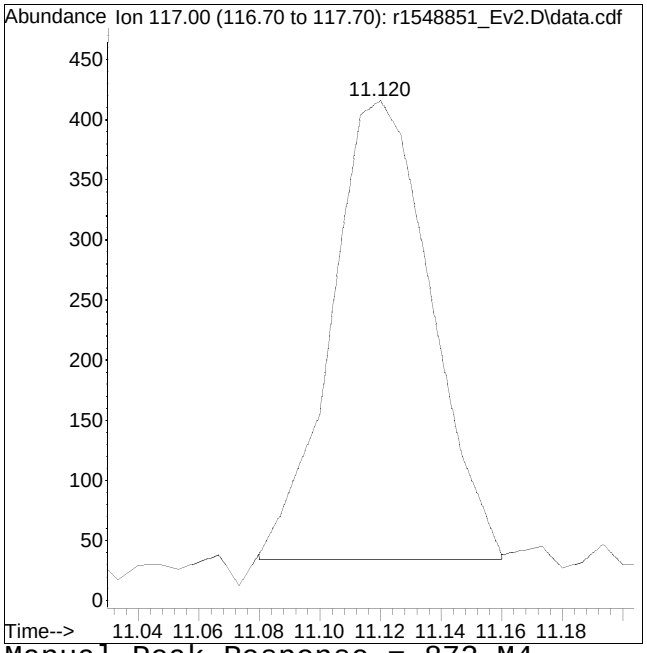
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1548851_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 6/18/2020 0:8: 5 Instrument :
Sample : L2432670-03,3,250,250 Quant Date : 6/19/2024 7:24 am

Compound #38: carbon tetrachloride



Original Peak Response = 983



Manual Peak Response = 872 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618SIM\
Data File : r1548852_Ev2.D
Acq On : 18 Jun 2024 9:12 PM
Operator : AIRLAB15:JMB
Sample : L2432670-04,3,250,250
Misc : WG1936046,ICAL21075
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:24:18 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618SIM\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618SIM\r1548846_Ev2.D
Sub List : 7-NY-SIM - .

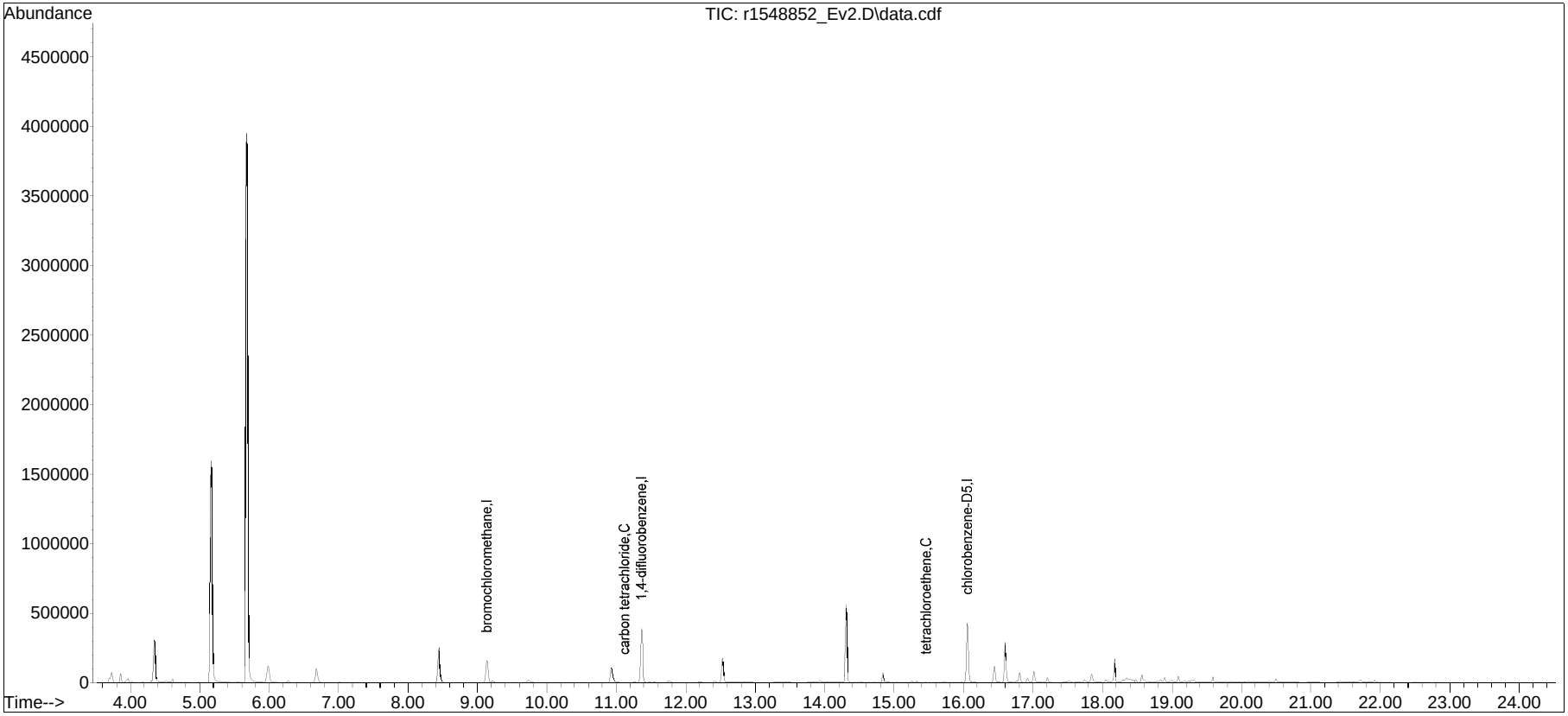
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.133	49	174450	10.000	ppbV	0.03
Standard Area = 187392			Recovery = 93.09%			
33) 1,4-difluorobenzene	11.367	114	483050	10.000	ppbV	0.02
Standard Area = 532871			Recovery = 90.65%			
51) chlorobenzene-D5	16.050	54	83560	10.000	ppbV	0.02
Standard Area = 89053			Recovery = 93.83%			
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	0.000		0	N.D.		
17) 1,1-dichloroethene	6.516		0	N.D.		
28) cis-1,2-dichloroethene	0.000		0	N.D.		
36) 1,1,1-trichloroethane	0.000		0	N.D.		
38) carbon tetrachloride	11.120	117	874M4	0.063	ppbV	
44) trichloroethene	0.000		0	N.D.		
57) tetrachloroethene	15.458	166	1331	0.067	ppbV	92

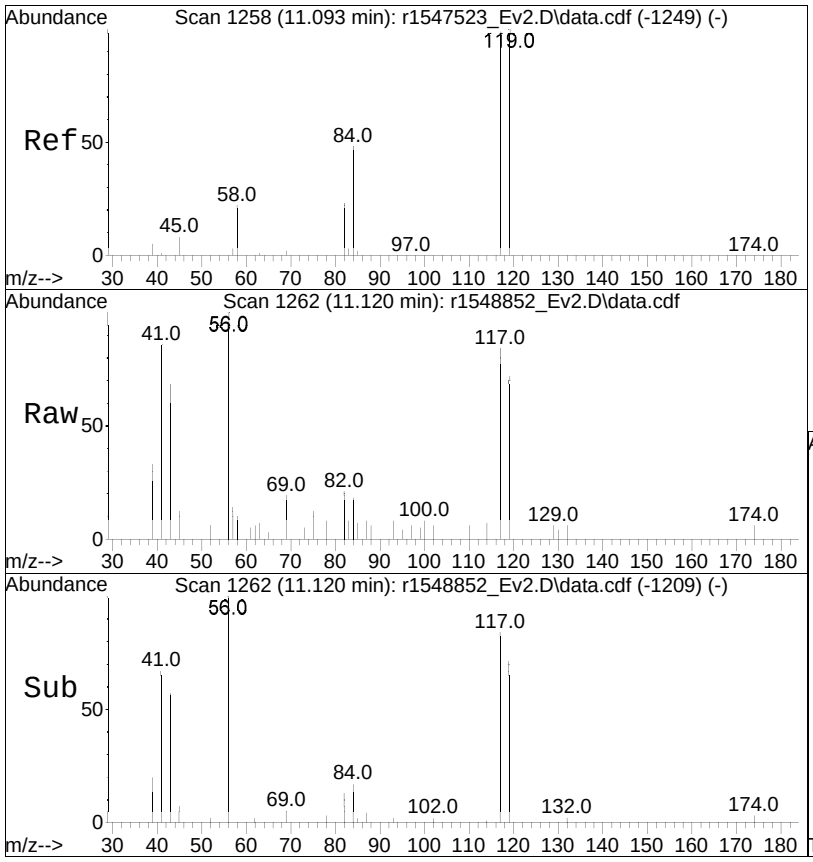
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab15\2024\06\0618SIM\r1548846_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618SIM\
Data File : r1548852_Ev2.D
Acq On : 18 Jun 2024 9:12 PM
Operator : AIRLAB15:JMB
Sample : L2432670-04,3,250,250
Misc : WG1936046,ICAL21075
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:24:18 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618SIM\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 2024
Response via : Initial Calibration

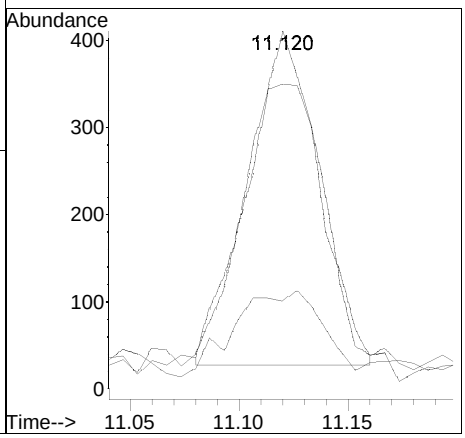


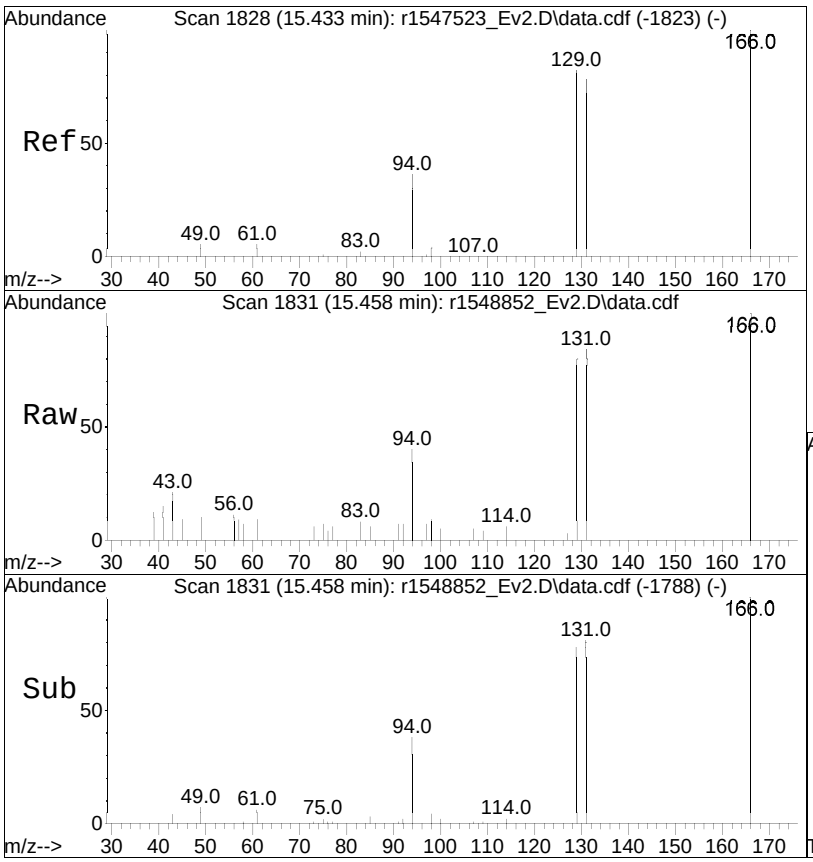


#38
carbon tetrachloride
Concen: 0.06 ppbV m
RT: 11.120 min Scan# 1262
Delta R.T. 0.027 min
Lab File: r1548852_Ev2.D
Acq: 18 Jun 2024 9:12 PM

Tgt Ion:117 Resp: 874

Ion	Ratio	Lower	Upper
117	100		
119	85.4	80.8	121.2
82	24.6	18.5	27.7

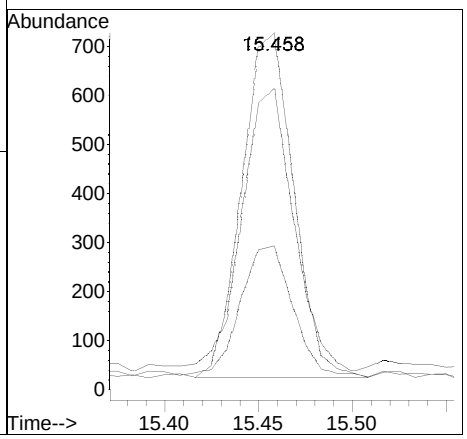




#57
tetrachloroethene
Concen: 0.07 ppbV
RT: 15.458 min Scan# 1831
Delta R.T. 0.025 min
Lab File: r1548852_Ev2.D
Acq: 18 Jun 2024 9:12 PM

Tgt Ion:166 Resp: 1331

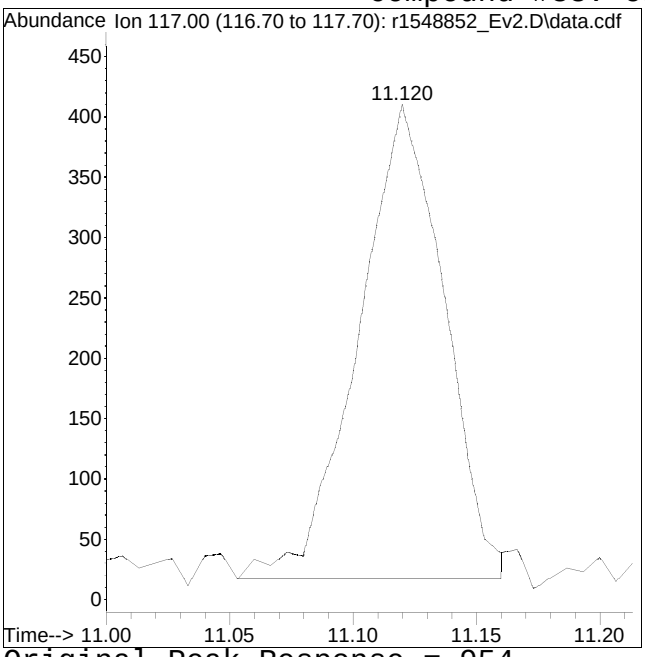
Ion	Ratio	Lower	Upper
166	100		
131	84.5	62.0	93.0
94	40.2	29.0	43.4



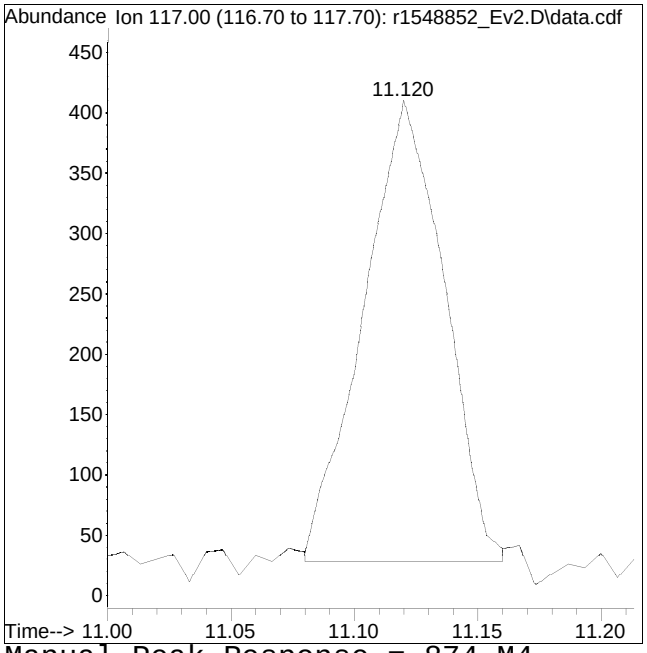
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1548852_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 6/18/2020 0:9: 2 Instrument :
Sample : L2432670-04,3,250,250 Quant Date : 6/19/2024 7:24 am

Compound #38: carbon tetrachloride



Original Peak Response = 954



Manual Peak Response = 874 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618SIM\
Data File : r1548853_Ev2.D
Acq On : 18 Jun 2024 9:50 PM
Operator : AIRLAB15:JMB
Sample : L2432670-05,3,250,250
Misc : WG1936046,ICAL21075
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:24:25 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618SIM\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618SIM\r1548846_Ev2.D
Sub List : 7-NY-SIM - .

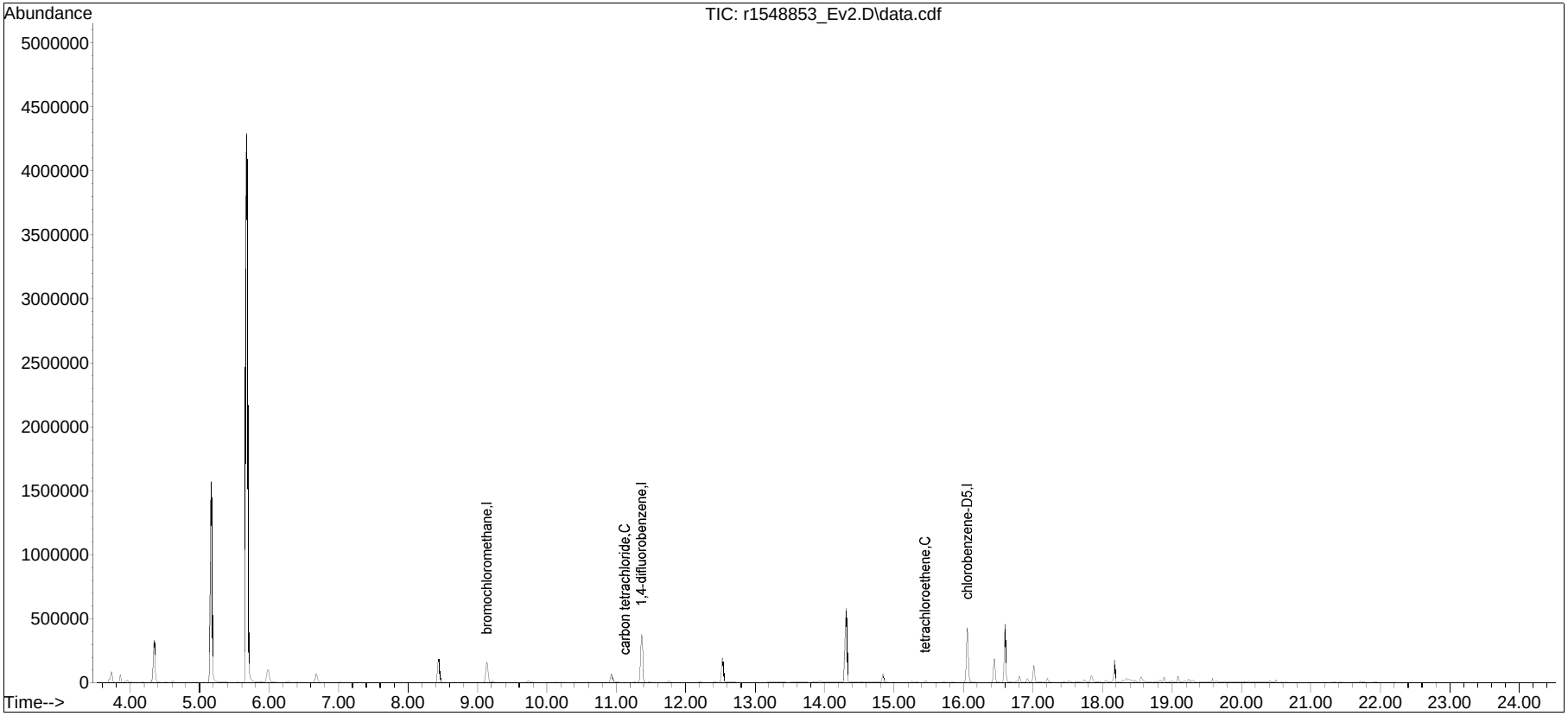
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.133	49	176199	10.000	ppbV	0.03
Standard Area = 187392			Recovery =		94.03%	
33) 1,4-difluorobenzene	11.367	114	473297	10.000	ppbV	0.02
Standard Area = 532871			Recovery =		88.82%	
51) chlorobenzene-D5	16.050	54	82387	10.000	ppbV	0.02
Standard Area = 89053			Recovery =		92.51%	
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	0.000		0	N.D.		
17) 1,1-dichloroethene	0.000		0	N.D.	d	
28) cis-1,2-dichloroethene	0.000		0	N.D.		
36) 1,1,1-trichloroethane	0.000		0	N.D.		
38) carbon tetrachloride	11.120	117	841M4	0.062	ppbV	
44) trichloroethene	12.167		0	N.D.		
57) tetrachloroethene	15.450	166	8951	0.458	ppbV	97

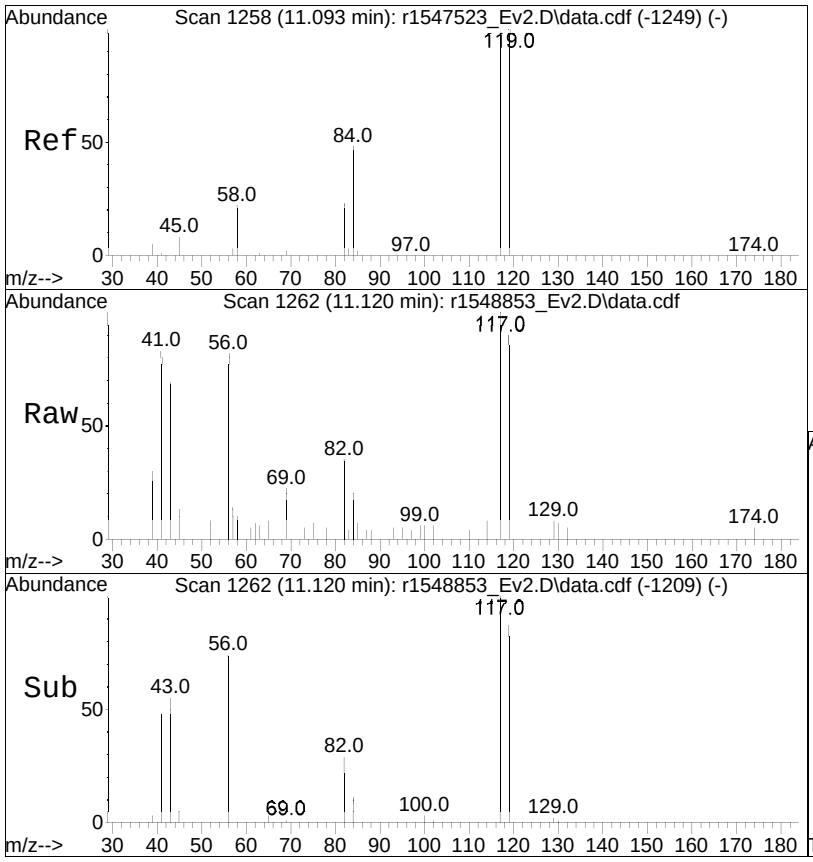
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab15\2024\06\0618SIM\r1548846_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618SIM\
Data File : r1548853_Ev2.D
Acq On : 18 Jun 2024 9:50 PM
Operator : AIRLAB15:JMB
Sample : L2432670-05,3,250,250
Misc : WG1936046,ICAL21075
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:24:25 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618SIM\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 2024
Response via : Initial Calibration

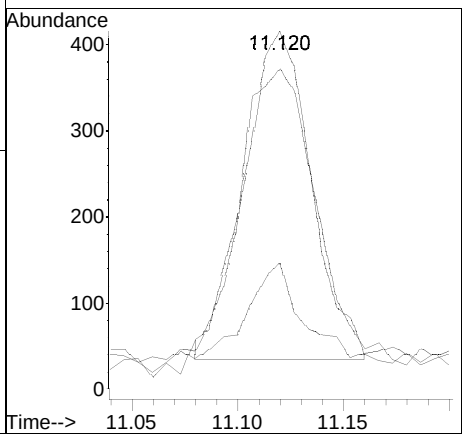


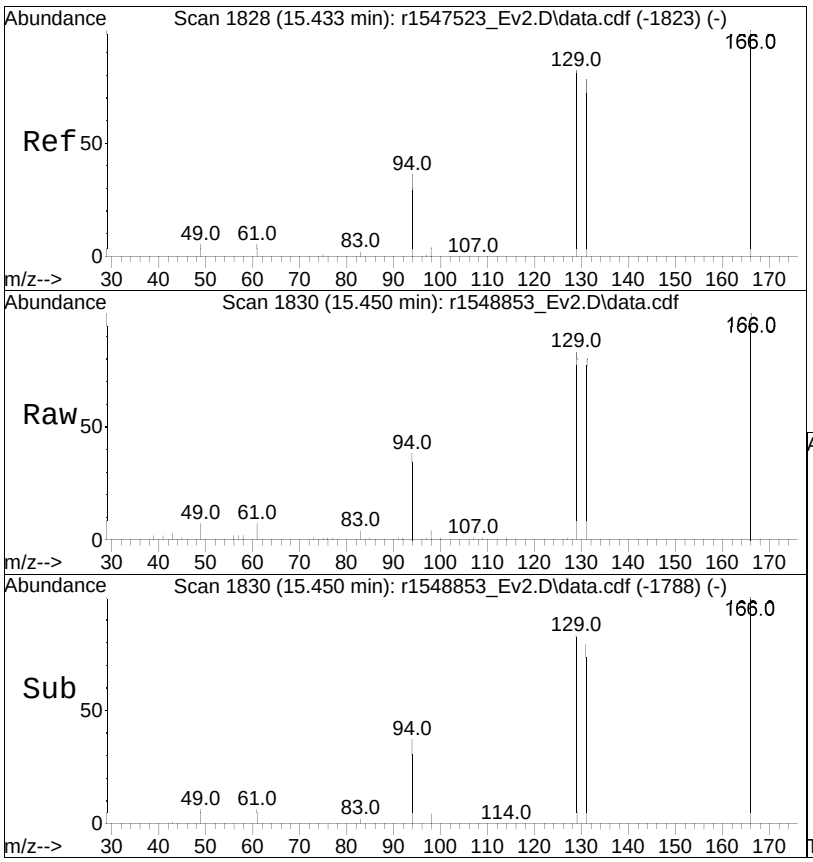


#38
carbon tetrachloride
Concen: 0.06 ppbV m
RT: 11.120 min Scan# 1262
Delta R.T. 0.027 min
Lab File: r1548853_Ev2.D
Acq: 18 Jun 2024 9:50 PM

Tgt Ion:117 Resp: 841

Ion	Ratio	Lower	Upper
117	100		
119	89.6	80.8	121.2
82	35.4	18.5	27.7#

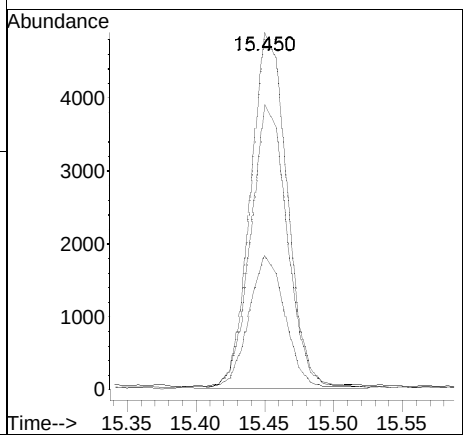




#57
tetrachloroethene
Concen: 0.46 ppbV
RT: 15.450 min Scan# 1830
Delta R.T. 0.017 min
Lab File: r1548853_Ev2.D
Acq: 18 Jun 2024 9:50 PM

Tgt Ion:166 Resp: 8951

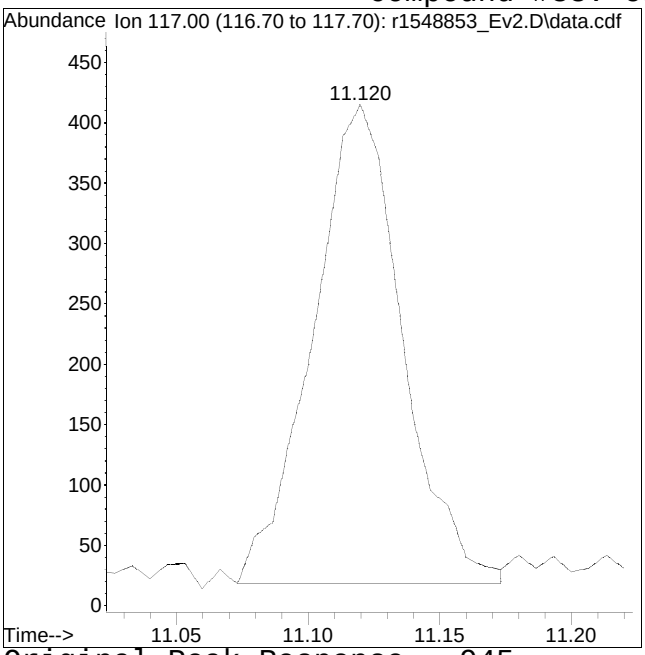
Ion	Ratio	Lower	Upper
166	100		
131	79.8	62.0	93.0
94	37.7	29.0	43.4



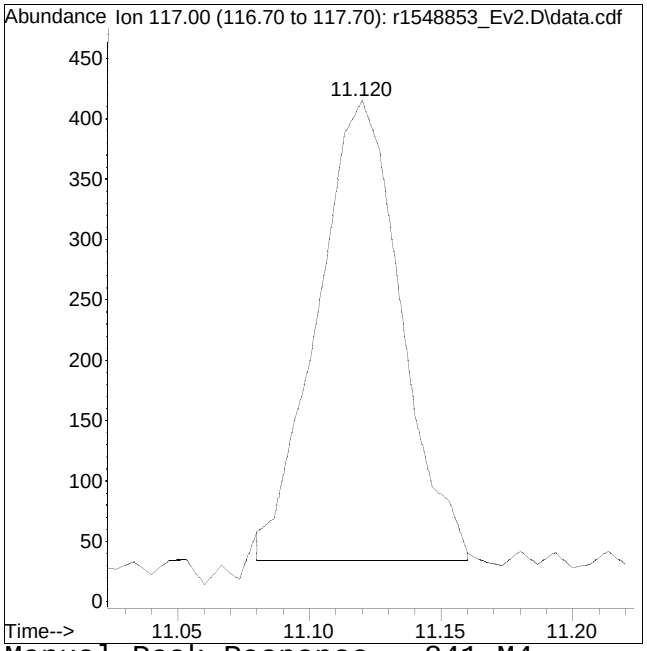
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1548853_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 6/18/2020 0:9: 0 Instrument :
Sample : L2432670-05,3,250,250 Quant Date : 6/19/2024 7:24 am

Compound #38: carbon tetrachloride



Original Peak Response = 945



Manual Peak Response = 841 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618SIM\
Data File : r1548854_Ev2.D
Acq On : 18 Jun 2024 10:27 PM
Operator : AIRLAB15:JMB
Sample : L2432670-06,3,250,250
Misc : WG1936046,ICAL21075
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:24:32 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618SIM\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618SIM\r1548846_Ev2.D
Sub List : 7-NY-SIM - .

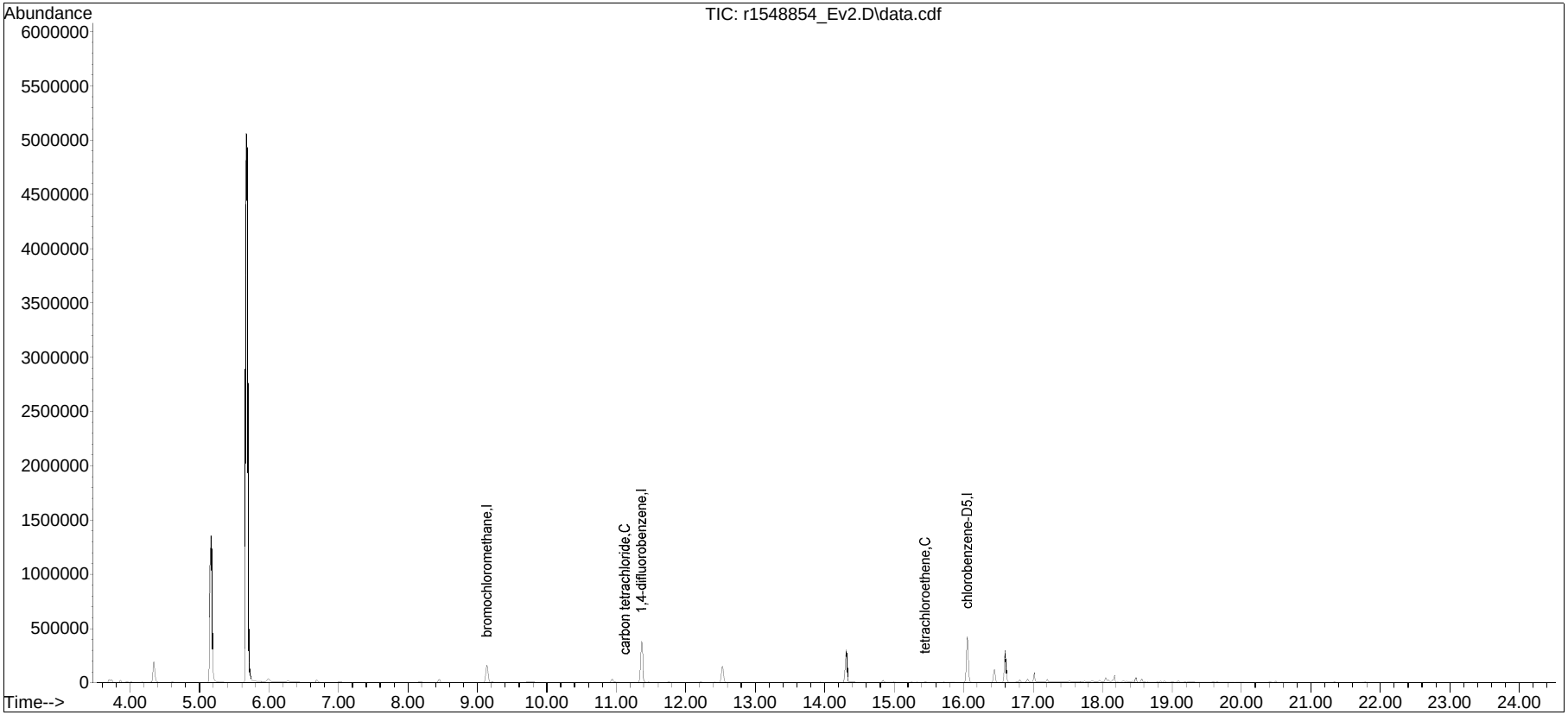
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.133	49	175723	10.000	ppbV	0.03
Standard Area = 187392			Recovery =		93.77%	
33) 1,4-difluorobenzene	11.367	114	472304	10.000	ppbV	0.02
Standard Area = 532871			Recovery =		88.63%	
51) chlorobenzene-D5	16.050	54	81584	10.000	ppbV	0.02
Standard Area = 89053			Recovery =		91.61%	
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	0.000		0	N.D.		
17) 1,1-dichloroethene	6.528		0	N.D.		
28) cis-1,2-dichloroethene	0.000		0	N.D.		
36) 1,1,1-trichloroethane	0.000		0	N.D.		
38) carbon tetrachloride	11.120	117	924	0.068	ppbV #	84
44) trichloroethene	0.000		0	N.D.		
57) tetrachloroethene	15.450	166	4806	0.248	ppbV	97

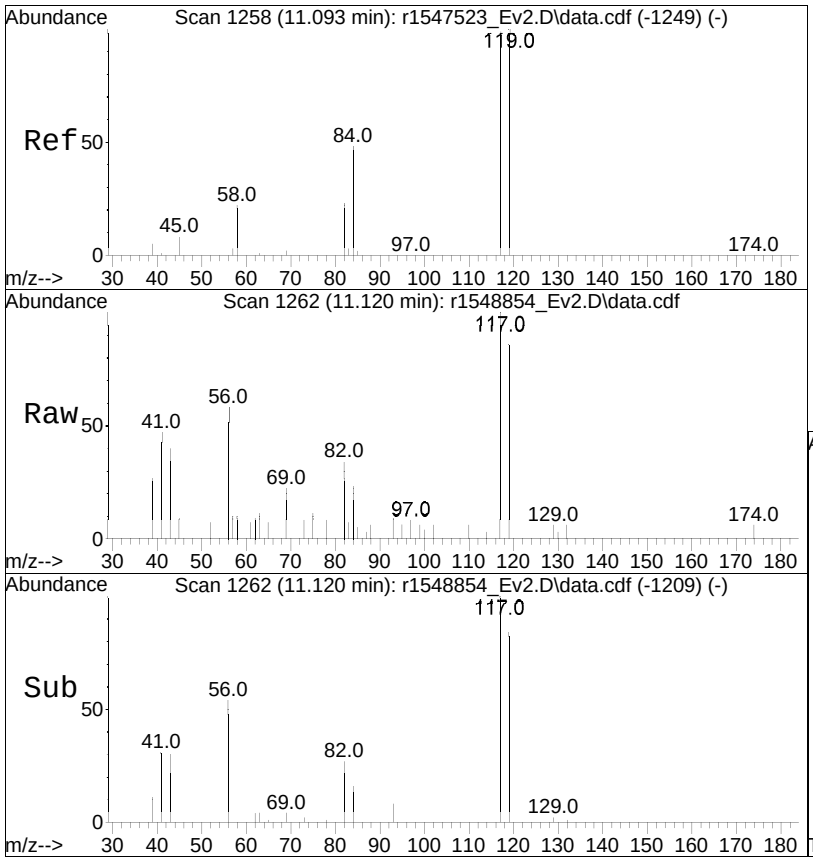
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab15\2024\06\0618SIM\r1548846_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618SIM\
Data File : r1548854_Ev2.D
Acq On : 18 Jun 2024 10:27 PM
Operator : AIRLAB15:JMB
Sample : L2432670-06,3,250,250
Misc : WG1936046,ICAL21075
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:24:32 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618SIM\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 2024
Response via : Initial Calibration

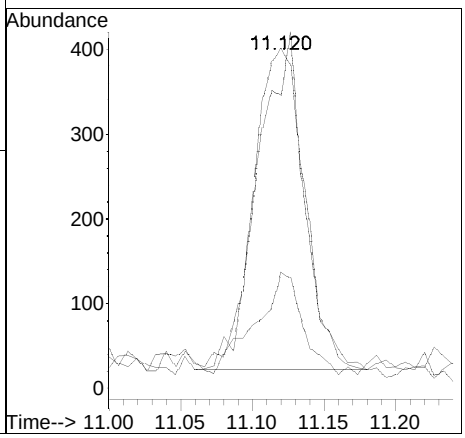


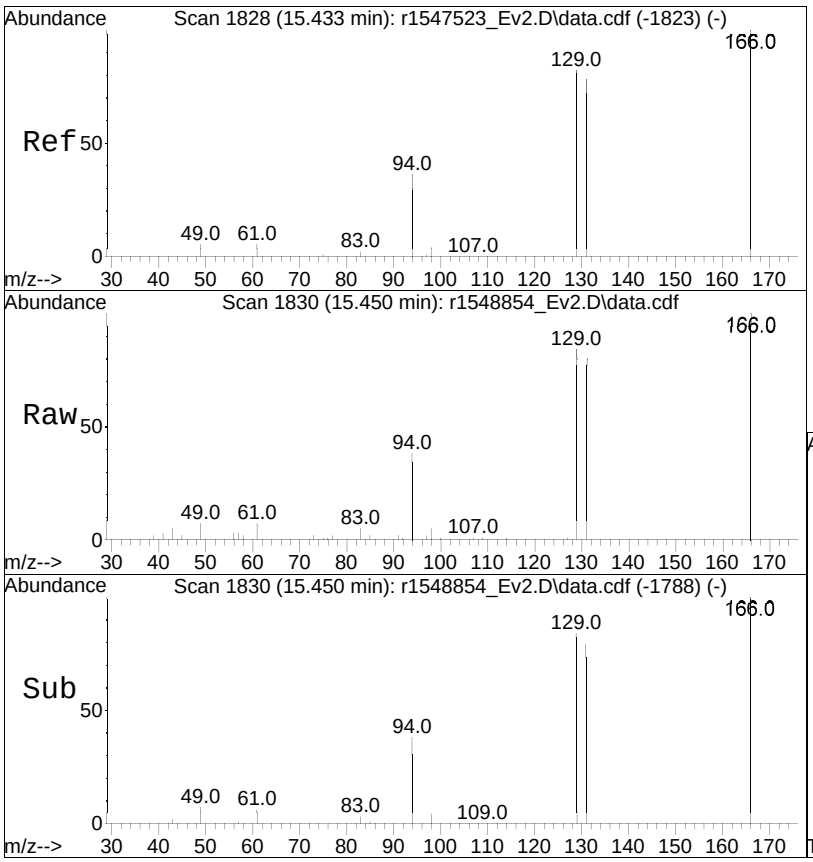


#38
carbon tetrachloride
Concen: 0.07 ppbV
RT: 11.120 min Scan# 1262
Delta R.T. 0.027 min
Lab File: r1548854_Ev2.D
Acq: 18 Jun 2024 10:27 PM

Tgt Ion:117 Resp: 924

Ion	Ratio	Lower	Upper
117	100		
119	86.1	80.8	121.2
82	34.1	18.5	27.7#

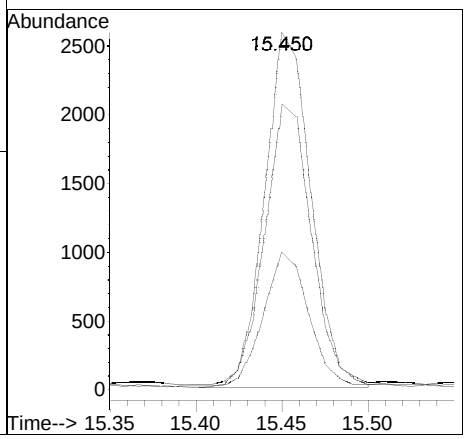




#57
tetrachloroethene
Concen: 0.25 ppbV
RT: 15.450 min Scan# 1830
Delta R.T. 0.017 min
Lab File: r1548854_Ev2.D
Acq: 18 Jun 2024 10:27 PM

Tgt Ion:166 Resp: 4806

Ion	Ratio	Lower	Upper
166	100		
131	79.9	62.0	93.0
94	38.4	29.0	43.4



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab15	QMethod	: TSIM15_240426.M
Data File	: r1548854_Ev2.D	Operator	: AIRLAB15:JMB
Date Inj'd	: 6/18/2020 0:0: 7	Instrument	:
Sample	: L2432670-06,3,250,250	Quant Date	: 6/19/2024 7:24 am

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618SIM\
Data File : r1548856_Ev2.D
Acq On : 18 Jun 2024 11:43 PM
Operator : AIRLAB15:JMB
Sample : L2432670-07,3,250,250
Misc : WG1936046,ICAL21075
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:24:45 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618SIM\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618SIM\r1548846_Ev2.D
Sub List : 7-NY-SIM - .

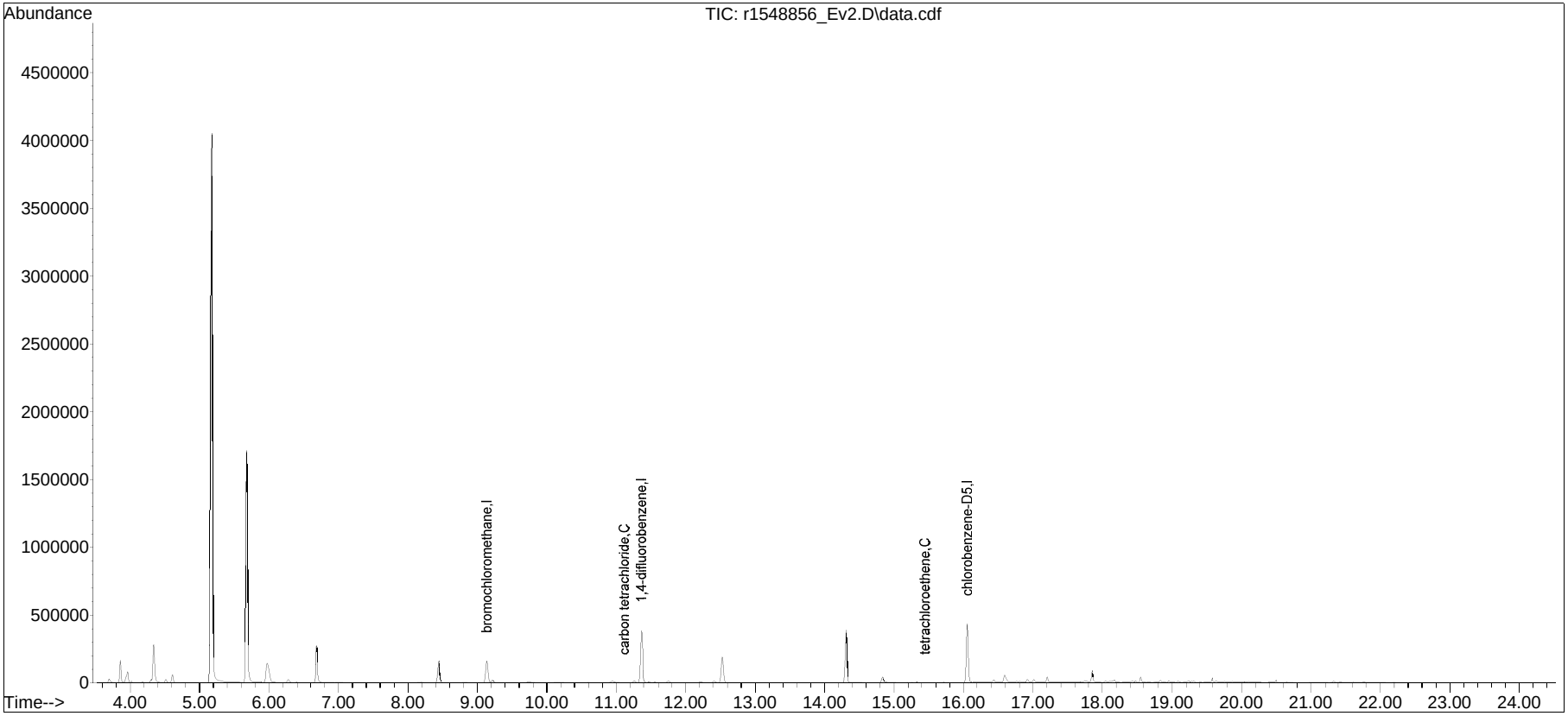
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.133	49	176534	10.000	ppbV	0.03
Standard Area = 187392			Recovery =		94.21%	
33) 1,4-difluorobenzene	11.367	114	474090	10.000	ppbV	0.02
Standard Area = 532871			Recovery =		88.97%	
51) chlorobenzene-D5	16.050	54	83496	10.000	ppbV	0.02
Standard Area = 89053			Recovery =		93.76%	
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	0.000		0	N.D.		
17) 1,1-dichloroethene	6.516		0	N.D.		
28) cis-1,2-dichloroethene	0.000		0	N.D.		
36) 1,1,1-trichloroethane	0.000		0	N.D.		
38) carbon tetrachloride	11.113	117	895	0.066	ppbV #	97
44) trichloroethene	12.160		0	N.D.		
57) tetrachloroethene	15.450	166	806	0.041	ppbV #	90

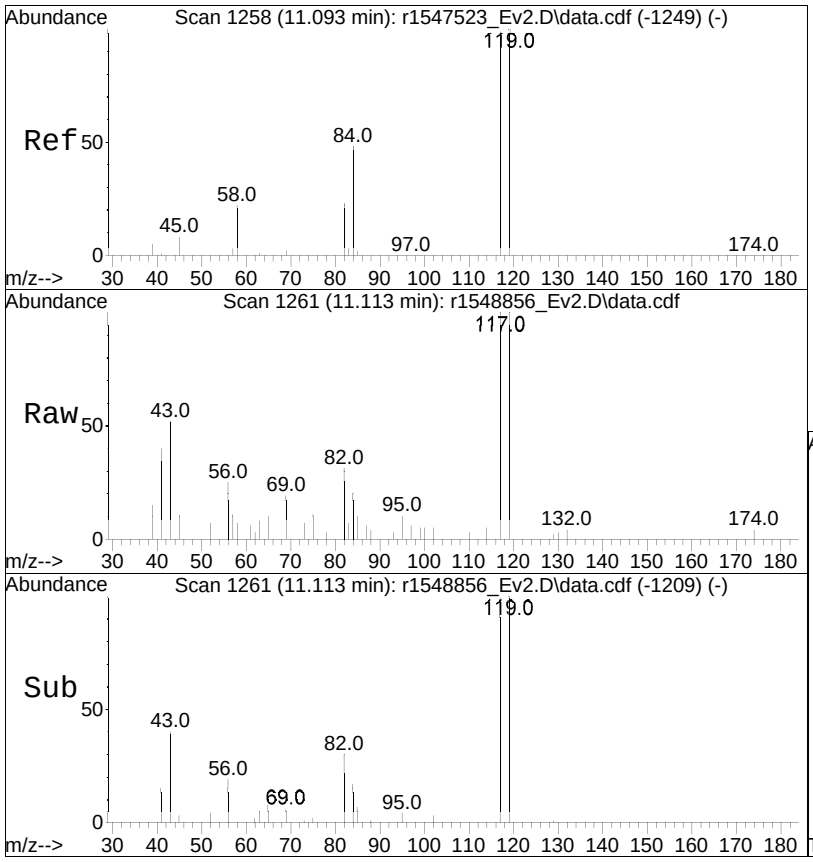
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab15\2024\06\0618SIM\r1548846_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618SIM\
Data File : r1548856_Ev2.D
Acq On : 18 Jun 2024 11:43 PM
Operator : AIRLAB15:JMB
Sample : L2432670-07,3,250,250
Misc : WG1936046,ICAL21075
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:24:45 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618SIM\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 2024
Response via : Initial Calibration

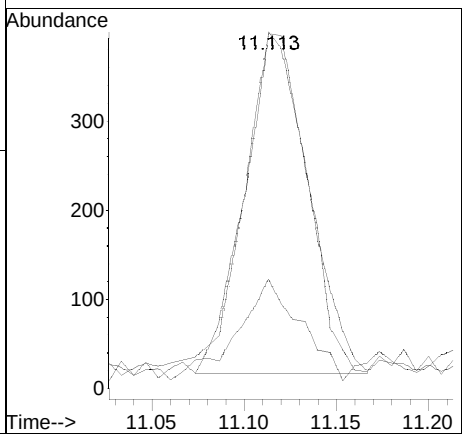


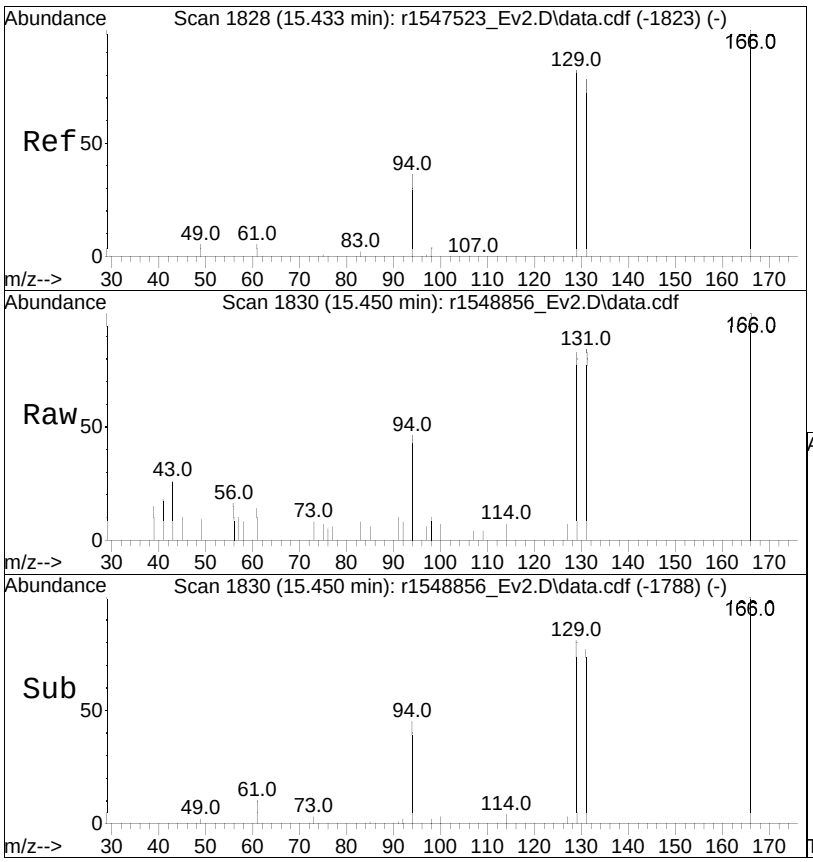


#38
carbon tetrachloride
Concen: 0.07 ppbV
RT: 11.113 min Scan# 1261
Delta R.T. 0.020 min
Lab File: r1548856_Ev2.D
Acq: 18 Jun 2024 11:43 PM

Tgt Ion:117 Resp: 895

Ion	Ratio	Lower	Upper
117	100		
119	100.5	80.8	121.2
82	30.9	18.5	27.7#

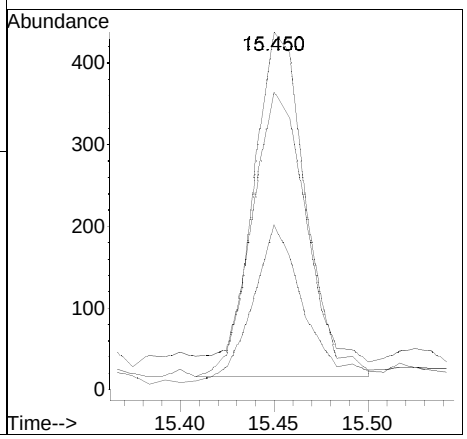




#57
tetrachloroethene
Concen: 0.04 ppbV
RT: 15.450 min Scan# 1830
Delta R.T. 0.017 min
Lab File: r1548856_Ev2.D
Acq: 18 Jun 2024 11:43 PM

Tgt Ion:166 Resp: 806

Ion	Ratio	Lower	Upper
166	100		
131	83.5	62.0	93.0
94	46.2	29.0	43.4#



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab15	QMethod	: TSIM15_240426.M
Data File	: r1548856_Ev2.D	Operator	: AIRLAB15:JMB
Date Inj'd	: 6/18/2020 0:1: 3	Instrument	:
Sample	: L2432670-07,3,250,250	Quant Date	: 6/19/2024 7:24 am

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618SIM\
Data File : r1548857_Ev2.D
Acq On : 19 Jun 2024 12:21 AM
Operator : AIRLAB15:JMB
Sample : L2432670-08,3,250,250
Misc : WG1936046,ICAL21075
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:24:51 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618SIM\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618SIM\r1548846_Ev2.D
Sub List : 7-NY-SIM - .

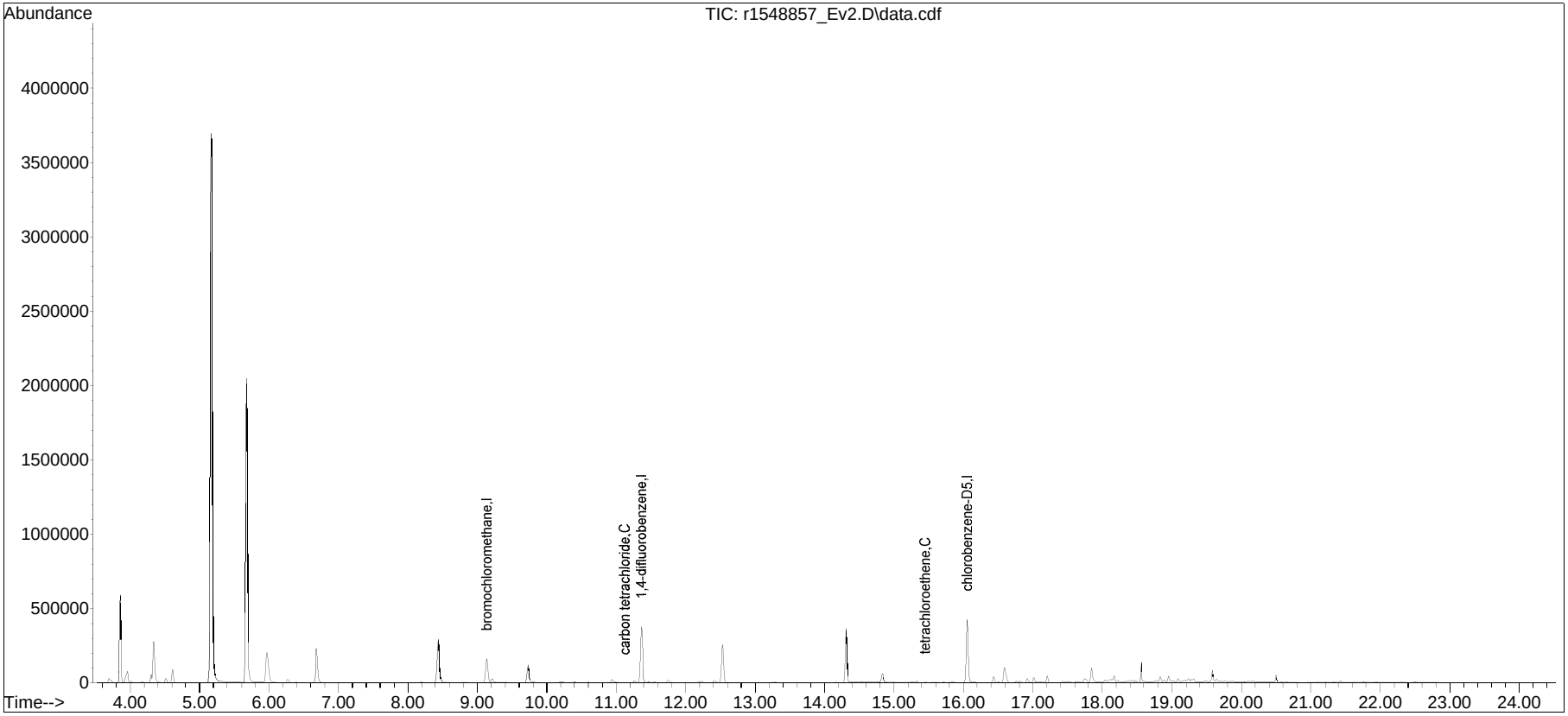
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.133	49	176336	10.000	ppbV	0.03
Standard Area = 187392			Recovery =		94.10%	
33) 1,4-difluorobenzene	11.367	114	467076	10.000	ppbV	0.02
Standard Area = 532871			Recovery =		87.65%	
51) chlorobenzene-D5	16.050	54	82985	10.000	ppbV	0.02
Standard Area = 89053			Recovery =		93.19%	
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	0.000		0	N.D.		
17) 1,1-dichloroethene	6.510		0	N.D.		
28) cis-1,2-dichloroethene	0.000		0	N.D.		
36) 1,1,1-trichloroethane	10.400		0	N.D.		
38) carbon tetrachloride	11.120	117	909M4	0.068	ppbV	
44) trichloroethene	0.000		0	N.D.		
57) tetrachloroethene	15.450	166	2252	0.114	ppbV	93

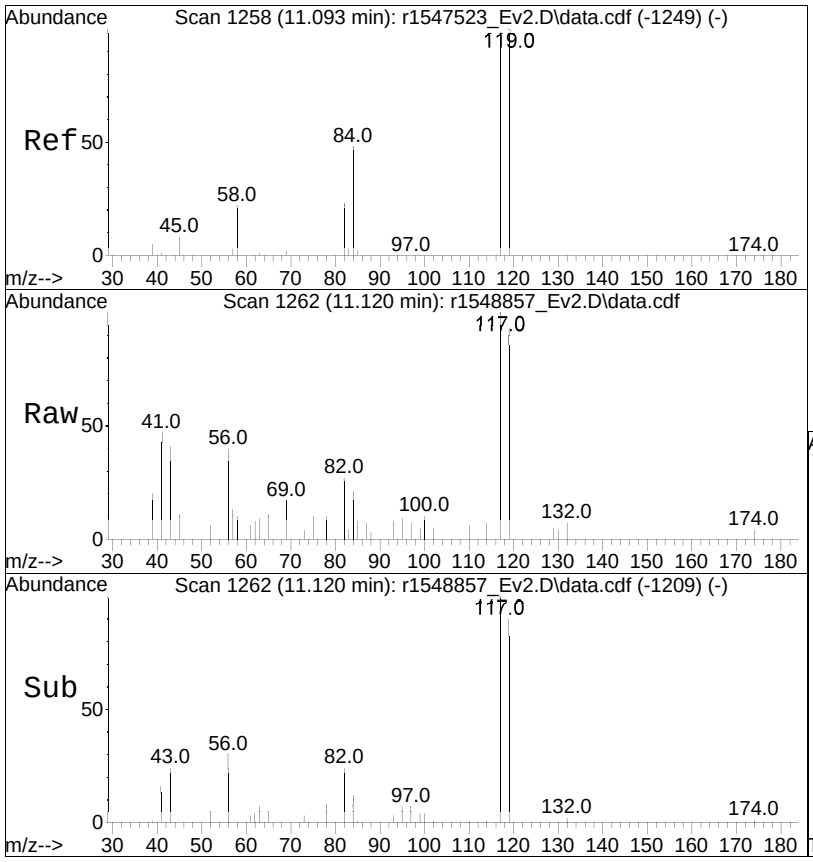
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab15\2024\06\0618SIM\r1548846_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618SIM\
Data File : r1548857_Ev2.D
Acq On : 19 Jun 2024 12:21 AM
Operator : AIRLAB15:JMB
Sample : L2432670-08,3,250,250
Misc : WG1936046,ICAL21075
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:24:51 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618SIM\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 2024
Response via : Initial Calibration

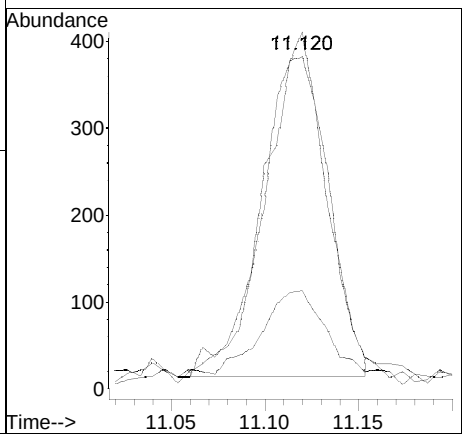


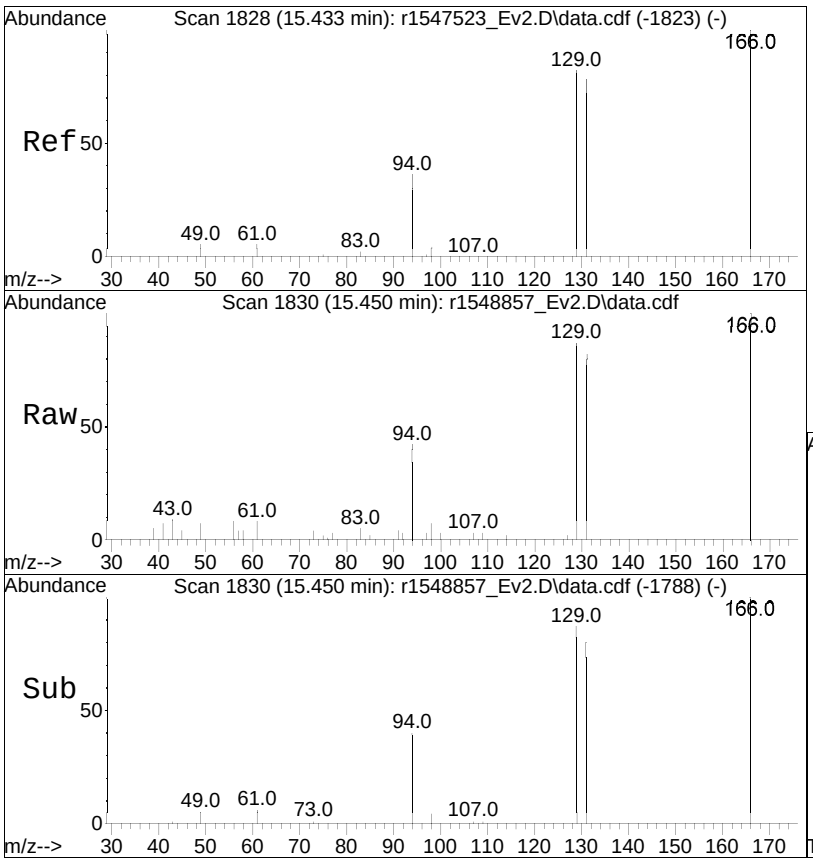


#38
carbon tetrachloride
Concen: 0.07 ppbV m
RT: 11.120 min Scan# 1262
Delta R.T. 0.027 min
Lab File: r1548857_Ev2.D
Acq: 19 Jun 2024 12:21 AM

Tgt Ion:117 Resp: 909

Ion	Ratio	Lower	Upper
117	100		
119	93.2	80.8	121.2
82	27.5	18.5	27.7

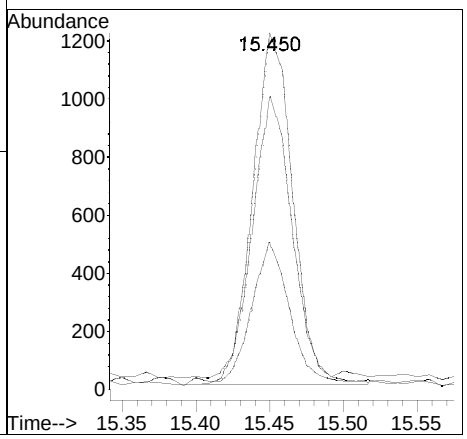




#57
tetrachloroethene
Concen: 0.11 ppbV
RT: 15.450 min Scan# 1830
Delta R.T. 0.017 min
Lab File: r1548857_Ev2.D
Acq: 19 Jun 2024 12:21 AM

Tgt Ion:166 Resp: 2252

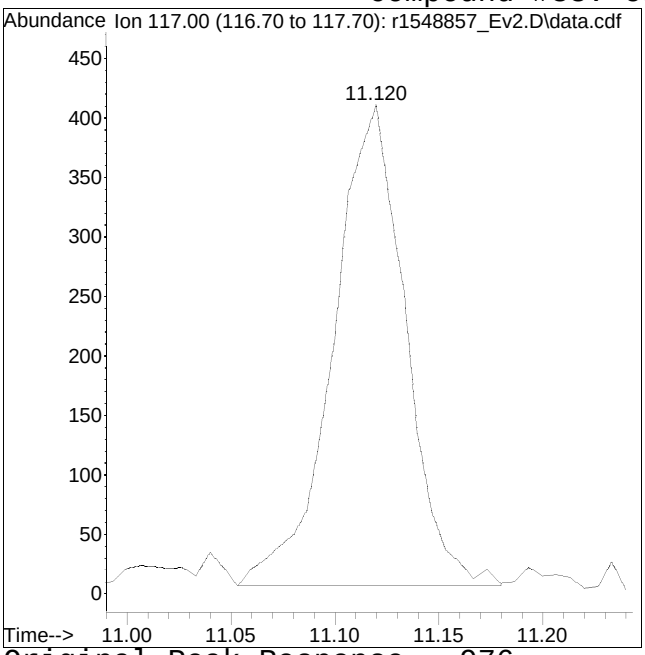
Ion	Ratio	Lower	Upper
166	100		
131	82.2	62.0	93.0
94	41.5	29.0	43.4



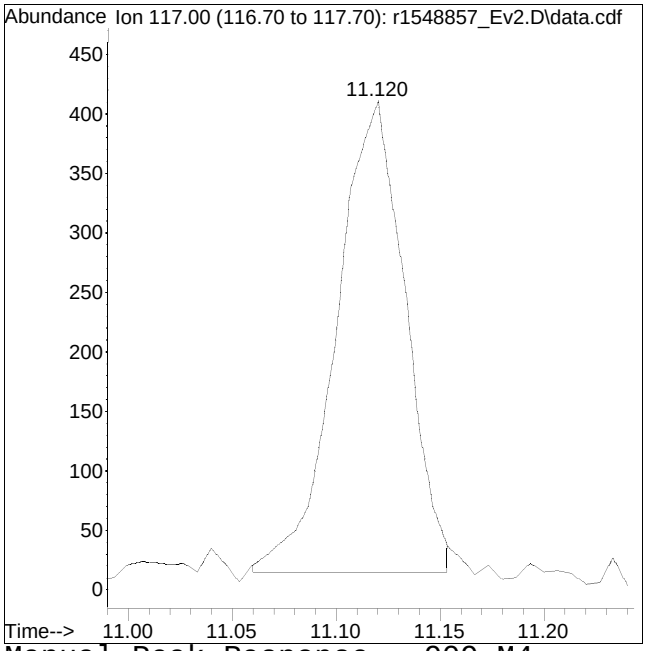
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1548857_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 6/19/2020 0:2: 1 Instrument :
Sample : L2432670-08,3,250,250 Quant Date : 6/19/2024 7:24 am

Compound #38: carbon tetrachloride



Original Peak Response = 976



Manual Peak Response = 909 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618SIM\
Data File : r1548858_Ev2.D
Acq On : 19 Jun 2024 12:59 AM
Operator : AIRLAB15:JMB
Sample : L2432670-09,3,250,250
Misc : WG1936046,ICAL21075
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:24:58 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618SIM\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618SIM\r1548846_Ev2.D
Sub List : 7-NY-SIM - .

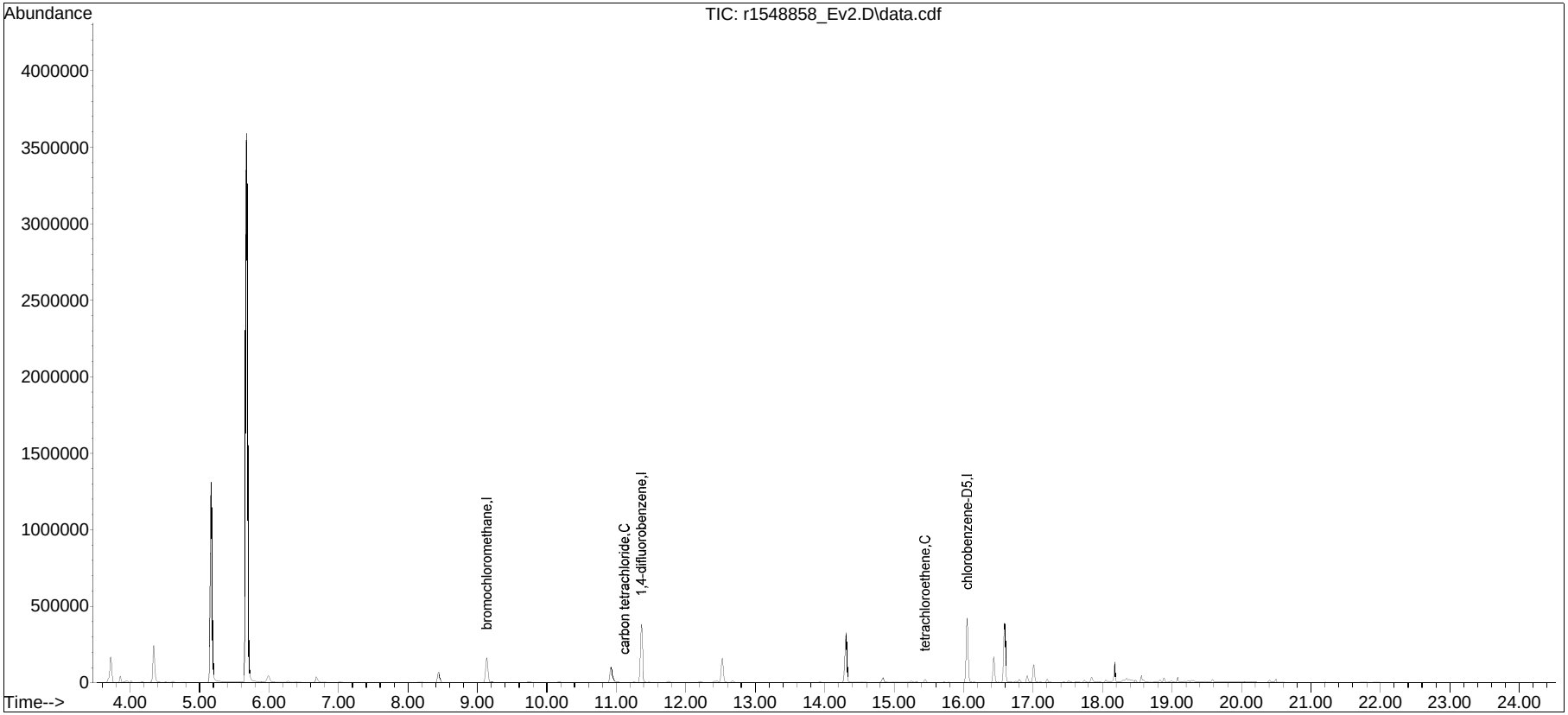
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.133	49	177332	10.000	ppbV	0.03
Standard Area = 187392			Recovery = 94.63%			
33) 1,4-difluorobenzene	11.367	114	468928	10.000	ppbV	0.02
Standard Area = 532871			Recovery = 88.00%			
51) chlorobenzene-D5	16.050	54	83216	10.000	ppbV	0.02
Standard Area = 89053			Recovery = 93.45%			
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	0.000		0	N.D.		
17) 1,1-dichloroethene	6.678		0	N.D.		
28) cis-1,2-dichloroethene	0.000		0	N.D.		
36) 1,1,1-trichloroethane	0.000		0	N.D.		
38) carbon tetrachloride	11.113	117	894M4	0.066	ppbV	
44) trichloroethene	0.000		0	N.D.		
57) tetrachloroethene	15.450	166	11975	0.607	ppbV	99

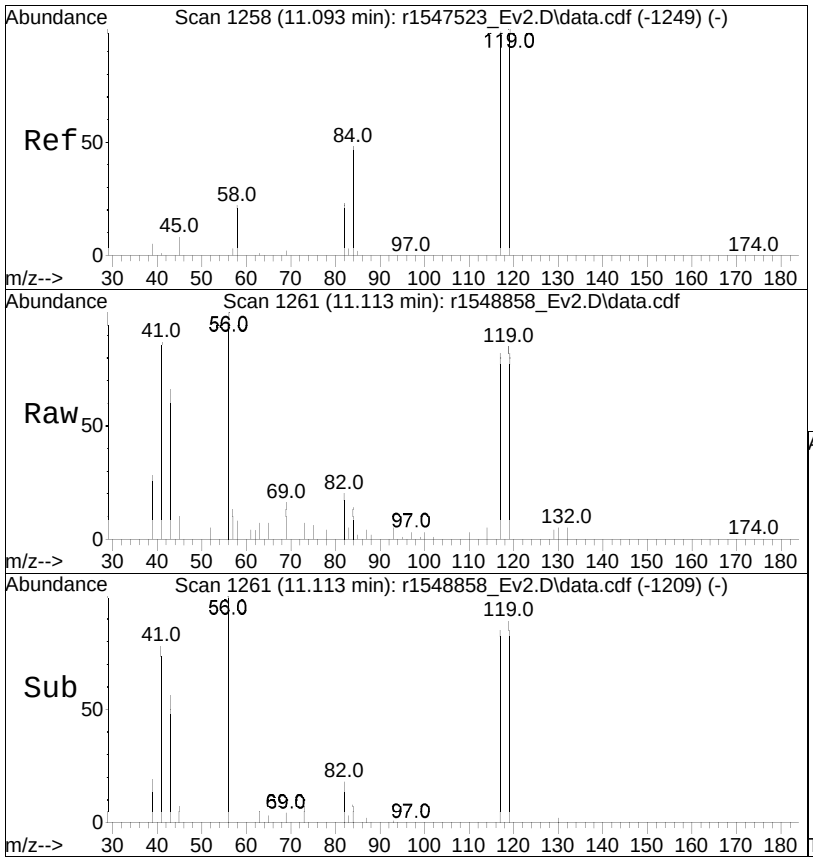
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab15\2024\06\0618SIM\r1548846_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618SIM\
Data File : r1548858_Ev2.D
Acq On : 19 Jun 2024 12:59 AM
Operator : AIRLAB15:JMB
Sample : L2432670-09,3,250,250
Misc : WG1936046,ICAL21075
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:24:58 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618SIM\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 2024
Response via : Initial Calibration

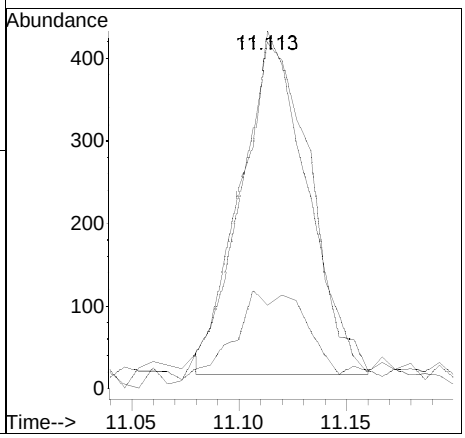


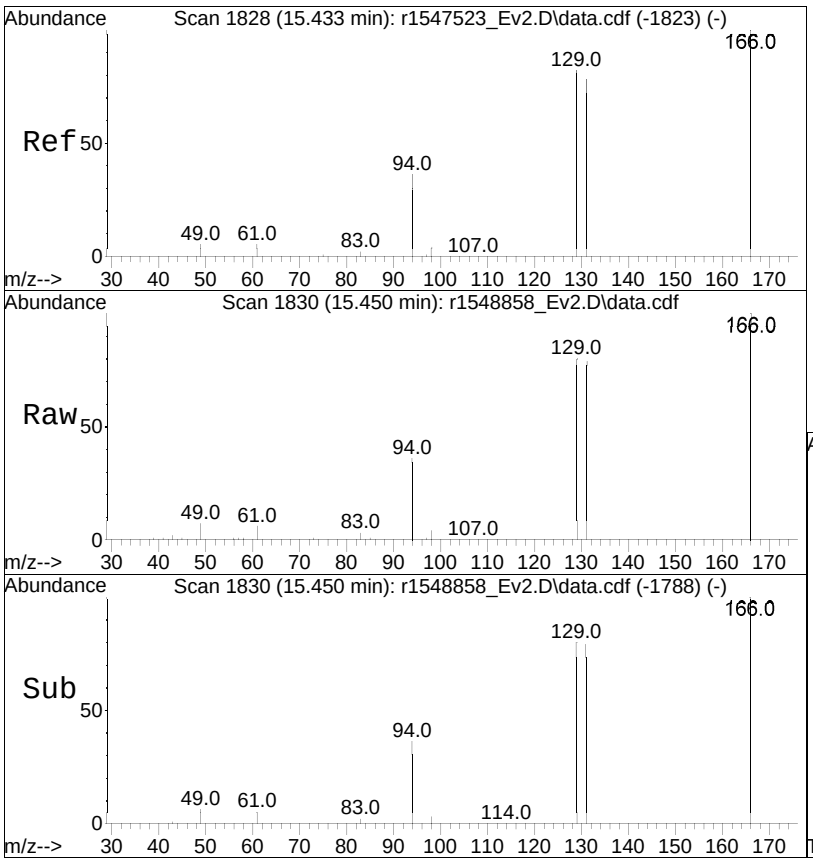


#38
carbon tetrachloride
Concen: 0.07 ppbV m
RT: 11.113 min Scan# 1261
Delta R.T. 0.020 min
Lab File: r1548858_Ev2.D
Acq: 19 Jun 2024 12:59 AM

Tgt Ion:117 Resp: 894

Ion	Ratio	Lower	Upper
117	100		
119	103.1	80.8	121.2
82	24.3	18.5	27.7

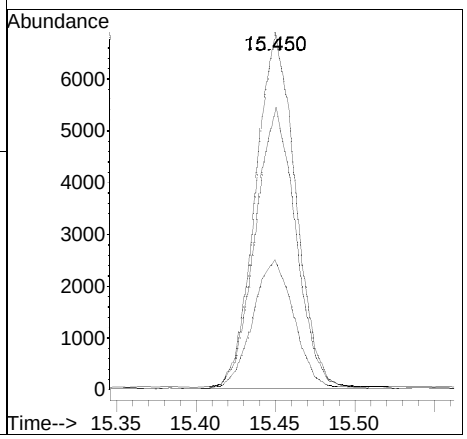




#57
tetrachloroethene
Concen: 0.61 ppbV
RT: 15.450 min Scan# 1830
Delta R.T. 0.017 min
Lab File: r1548858_Ev2.D
Acq: 19 Jun 2024 12:59 AM

Tgt Ion:166 Resp: 11975

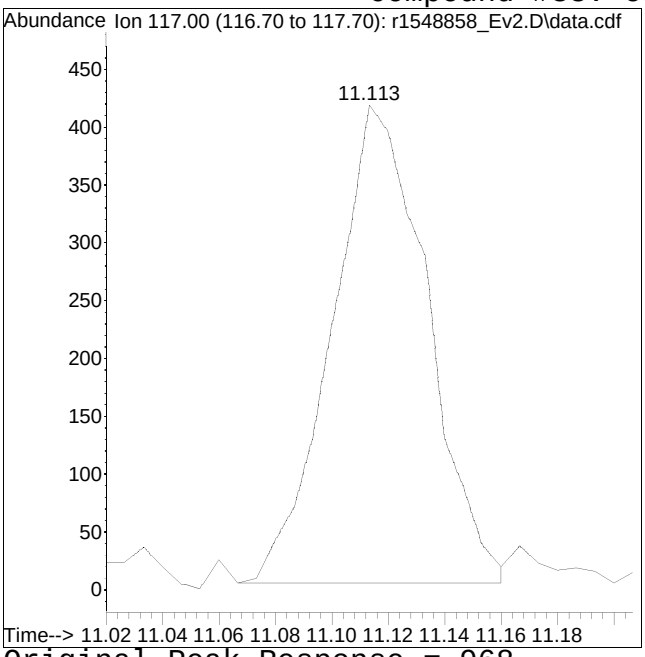
Ion	Ratio	Lower	Upper
166	100		
131	79.1	62.0	93.0
94	36.4	29.0	43.4



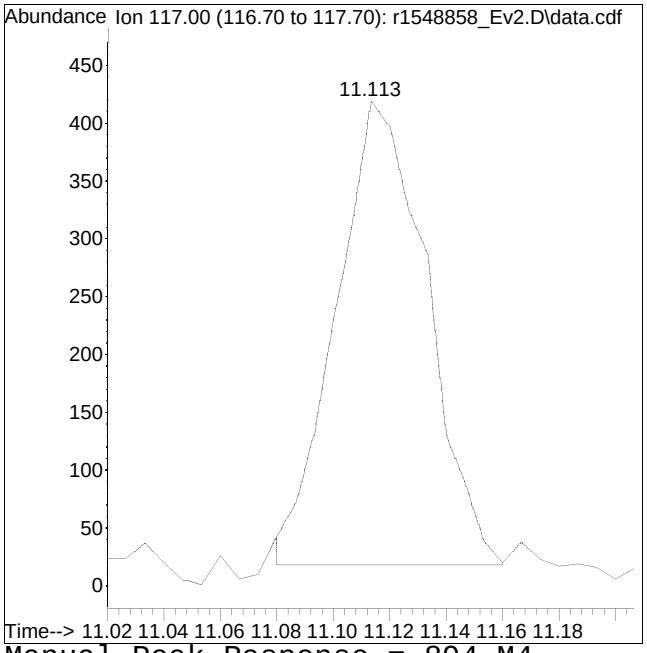
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1548858_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 6/19/2020 0:2: 9 Instrument :
Sample : L2432670-09,3,250,250 Quant Date : 6/19/2024 7:24 am

Compound #38: carbon tetrachloride



Original Peak Response = 968



Manual Peak Response = 894 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618SIM\
Data File : r1548863_Ev2.D
Acq On : 19 Jun 2024 4:07 AM
Operator : AIRLAB15:JMB
Sample : L2432670-02,3,250,250
Misc : WG1936046,ICAL21075
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:25:31 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618SIM\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618SIM\r1548846_Ev2.D
Sub List : 7-NY-SIM - .

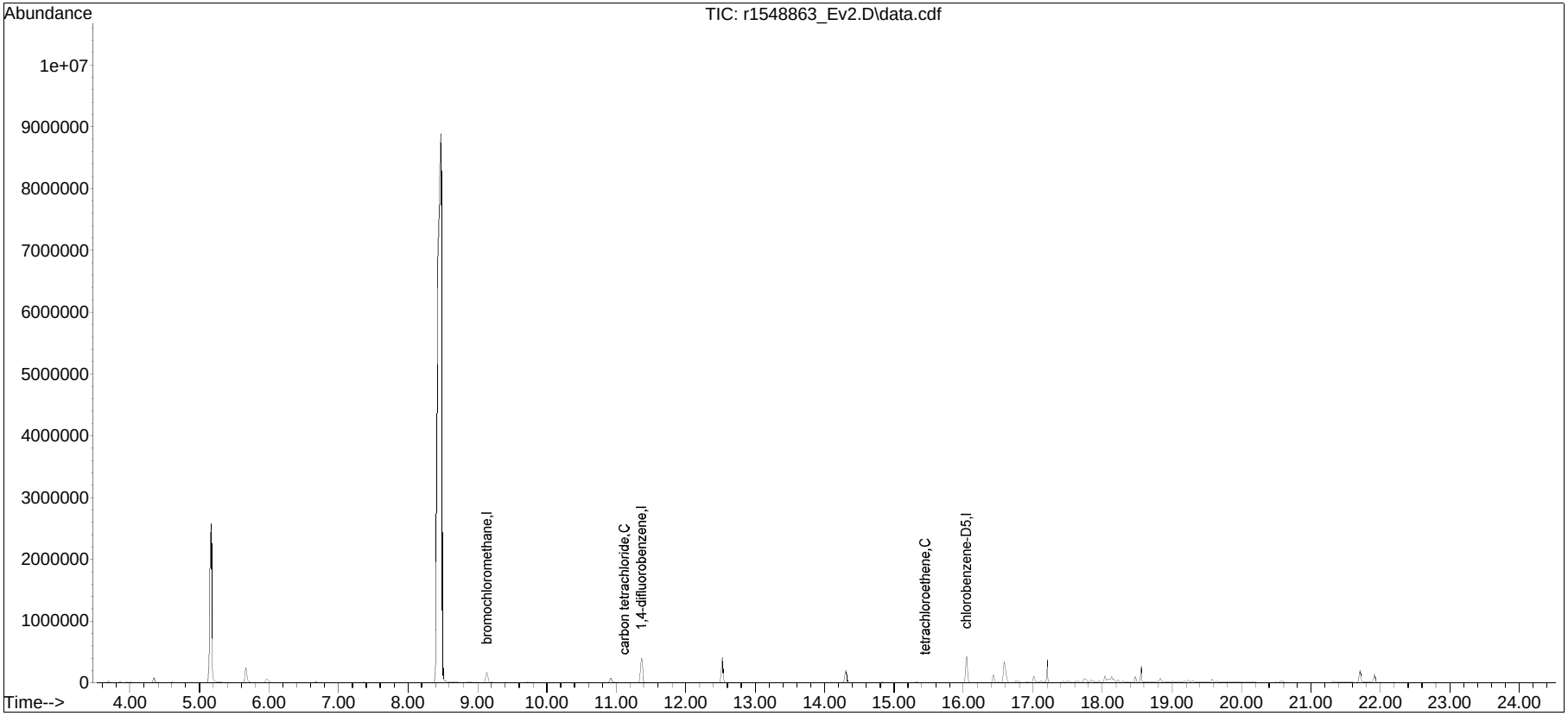
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.133	49	183820	10.000	ppbV	0.03
Standard Area = 187392			Recovery =		98.09%	
33) 1,4-difluorobenzene	11.367	114	495948	10.000	ppbV	0.02
Standard Area = 532871			Recovery =		93.07%	
51) chlorobenzene-D5	16.042	54	88747	10.000	ppbV	0.00
Standard Area = 89053			Recovery =		99.66%	
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	0.000		0	N.D.		
17) 1,1-dichloroethene	0.000		0	N.D.		
28) cis-1,2-dichloroethene	8.867		0	N.D.		
36) 1,1,1-trichloroethane	0.000		0	N.D.		
38) carbon tetrachloride	11.113	117	947M4	0.067	ppbV	
44) trichloroethene	0.000		0	N.D.		
57) tetrachloroethene	15.450	166	243	0.012	ppbV #	70

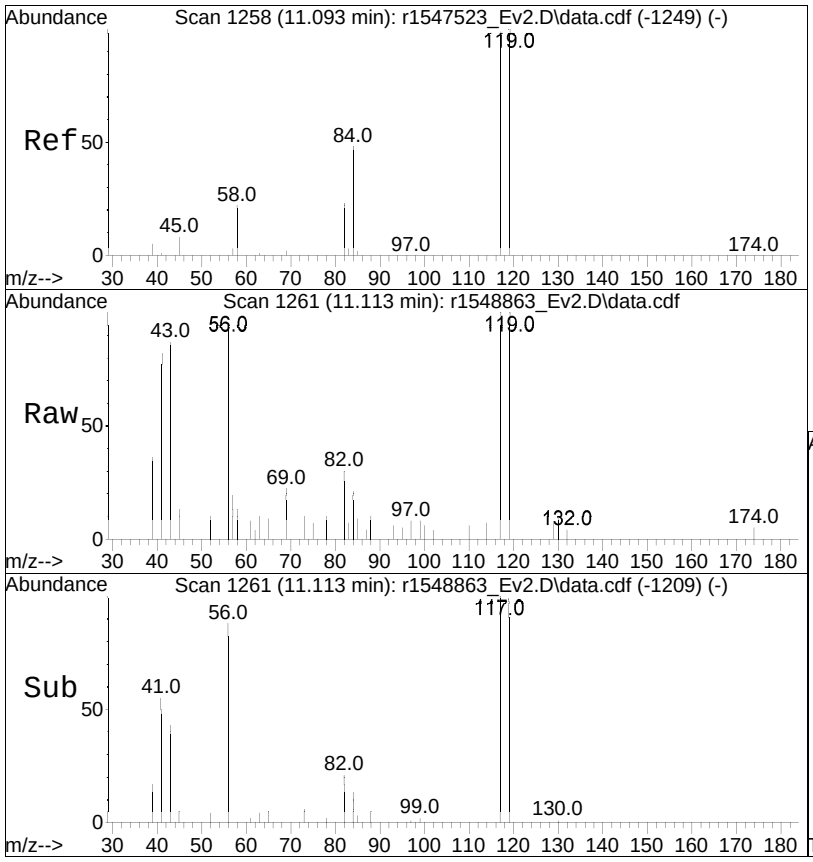
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab15\2024\06\0618SIM\r1548846_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618SIM\
Data File : r1548863_Ev2.D
Acq On : 19 Jun 2024 4:07 AM
Operator : AIRLAB15:JMB
Sample : L2432670-02,3,250,250
Misc : WG1936046,ICAL21075
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:25:31 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618SIM\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 2024
Response via : Initial Calibration

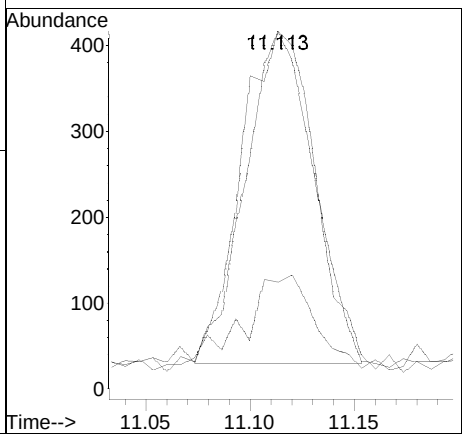


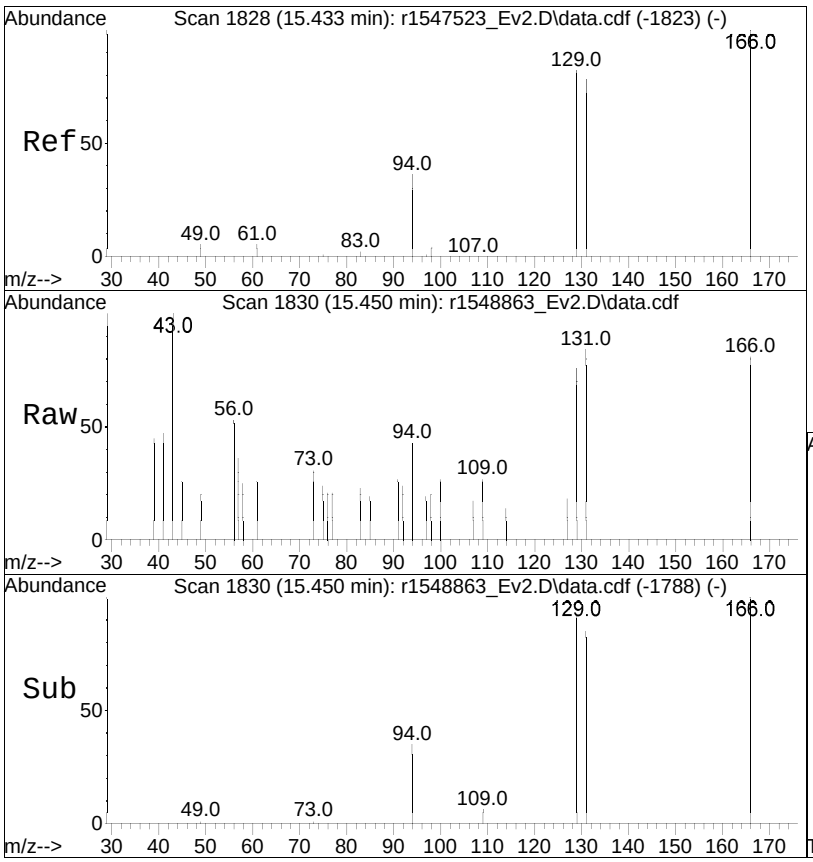


#38
carbon tetrachloride
Concen: 0.07 ppbV m
RT: 11.113 min Scan# 1261
Delta R.T. 0.020 min
Lab File: r1548863_Ev2.D
Acq: 19 Jun 2024 4:07 AM

Tgt Ion:117 Resp: 947

Ion	Ratio	Lower	Upper
117	100		
119	100.0	80.8	121.2
82	30.0	18.5	27.7#

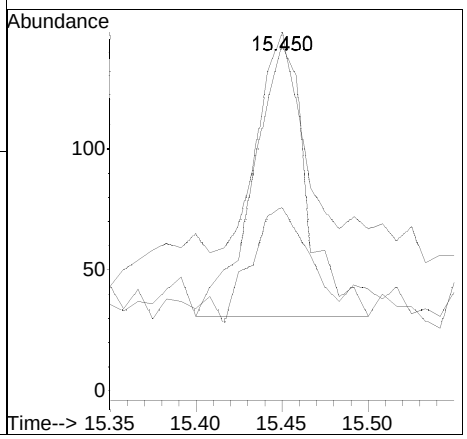




#57
tetrachloroethene
Concen: 0.01 ppbV
RT: 15.450 min Scan# 1830
Delta R.T. 0.017 min
Lab File: r1548863_Ev2.D
Acq: 19 Jun 2024 4:07 AM

Tgt Ion:166 Resp: 243

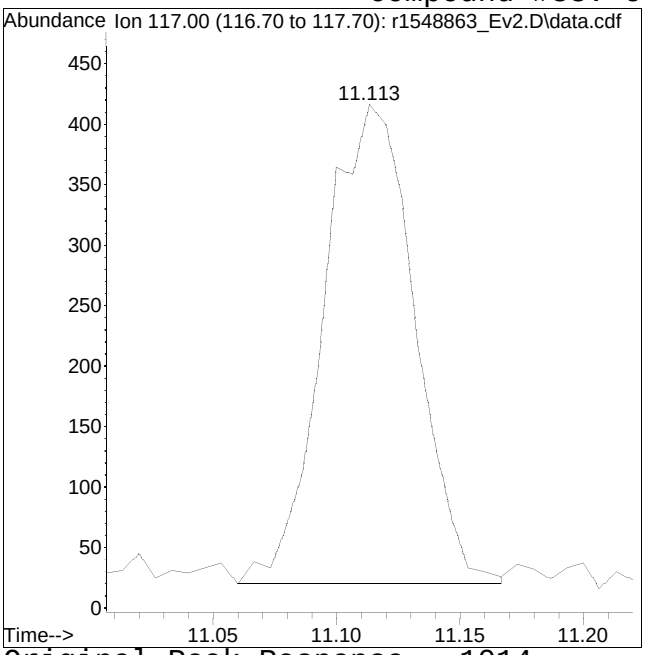
Ion	Ratio	Lower	Upper
166	100		
131	103.5	62.0	93.0#
94	53.1	29.0	43.4#



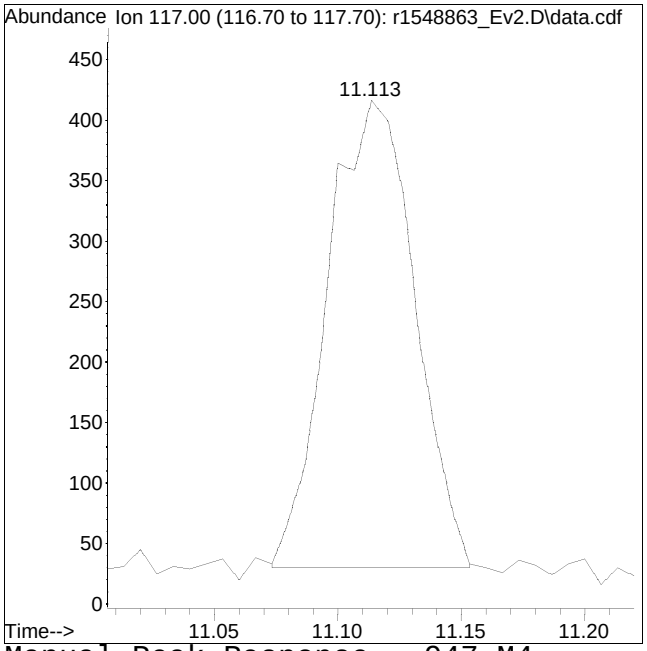
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1548863_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 6/19/2020 0:4: 7 Instrument :
Sample : L2432670-02,3,250,250 Quant Date : 6/19/2024 7:25 am

Compound #38: carbon tetrachloride



Original Peak Response = 1014



Manual Peak Response = 947 M4

M4 = Poor automated baseline construction.

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: AKRF, Inc.**	**Lab Number**	**: L2432670**
Project Name	**: BUD NORTH**	**Project Number**	**: 200112**
Instrument ID	**: AIRLAB15**	**Ical Ref**	**: ICAL21075**
Calibration dates	**: 04/26/24 20:31 04/27/24 02:43**		

Calibration Files

0.02=r1547517_Ev2.D 0.05=r1547518_Ev2.D 0.1 =r1547519_Ev2.D 0.2 =r1547520_Ev2.D 0.5 =r1547521_Ev2.D

1.0 =r1547522_Ev2.D 5.0 =r1547523_Ev2.D 10.0=r1547524_Ev2.D 20.0=r1547525_Ev2.D 50.0=r1547526_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				1.286	0.892	0.759	0.734	0.746	0.502	0.553	0.7817	33.07#
3)		dichlorodifluoromethane				1.143	1.157	1.172	1.397	1.239	0.851	0.868	1.1181	17.54
4)	C	chloromethane				0.435	0.428	0.437	0.498	0.480	0.328	0.349	0.4223	14.90
5)		Freon-114		1.075	1.103	1.116	1.140	1.161	1.331	1.271	0.861	0.860	1.1020	14.48
6)	C	vinyl chloride	0.577	0.554	0.618	0.620	0.637	0.665	0.795	0.758	0.504	0.520	0.6248	15.21
7)	C	1,3-butadiene	0.276	0.302	0.319	0.354	0.386	0.387	0.459	0.443	0.301	0.316	0.3543	17.73
8)	C	bromomethane	0.494	0.509	0.511	0.479	0.500	0.528	0.618	0.597	0.399	0.412	0.5047	13.61
9)	C	chloroethane			0.338	0.321	0.331	0.341	0.395	0.390	0.262	0.274	0.3317	14.32
10)		ethanol					0.382	0.402	0.441	0.426	0.275	0.276	0.3670	20.04
11)	C	vinyl bromide				0.488	0.521	0.546	0.654	0.668	0.463	0.488	0.5470	15.05
12)	C	acrolein		0.221	0.202	0.201	0.224	0.216	0.252	0.261	0.180	0.188	0.2162	12.61
13)		acetone				0.641	0.647	0.667	0.727	0.729	0.507	0.522	0.6341	14.08
14)		trichlorofluoromethane		1.036	1.070	0.913	0.973	0.978	1.130	1.116	0.731	0.749	0.9661	15.11
15)		isopropyl alcohol				0.802	0.782	0.780	0.859	0.873	0.623	0.663	0.7689	12.21
16)	C	acrylonitrile				0.297	0.308	0.305	0.461	0.441	0.299	0.323	0.3476	20.51
17)	C	1,1-dichloroethene	1.115	0.804	1.026	1.061	1.103	1.122	1.323	1.343	0.919	0.962	1.0779	15.49
18)		tertiary butyl alcohol					1.259	1.315	1.510	1.584	1.125	1.195	1.3314	13.53
19)	C	methylene chloride					0.781	0.792	0.867	0.884	0.599	0.629	0.7587	15.79
20)	C	3-chloropropene					0.888	0.921	1.110	1.168	0.833	0.914	0.9724	13.79
21)	C	carbon disulfide				1.754	1.784	1.859	2.270	2.321	1.658	1.757	1.9145	13.95
22)		Freon 113	1.785	1.585	1.442	1.403	1.377	1.373	1.579	1.597	1.120	1.183	1.4444	13.88
23)		trans-1,2-dichloroethene	0.973	1.108	1.048	1.014	1.100	1.126	1.344	1.381	0.965	1.019	1.1079	13.09
24)	C	1,1-dichloroethane	1.257	1.334	1.330	1.348	1.406	1.432	1.689	1.718	1.194	1.268	1.3976	12.58
25)	C	MTBE	1.329	1.449	1.433	1.433	1.493	1.542	1.832	1.872	1.328	1.437	1.5148	12.50
26)	C	vinyl acetate					1.205	1.260	1.552	1.616	1.170	1.311	1.3523	13.82
27)	C	2-butanone				1.265	1.319	1.400	1.743	1.789	1.206	1.312	1.4335	16.38
28)		cis-1,2-dichloroethene	0.917	0.900	1.004	1.019	1.036	1.054	1.297	1.321	0.907	0.957	1.0412	14.53
29)		Ethyl Acetate					0.260	0.274	0.345	0.361	0.253	0.264	0.2929	16.24
30)	C	chloroform	1.030	1.205	1.130	1.169	1.201	1.250	1.434	1.432	0.964	0.982	1.1796	13.97
31)		Tetrahydrofuran				0.771	0.822	0.869	1.062	1.107	0.787	0.865	0.8976	14.83
32)	C	1,2-dichloroethane	0.749	0.749	0.731	0.845	0.832	0.824	0.955	0.966	0.648	0.676	0.7974	13.45
33)	I	1,4-difluorobenzene	----------ISTD----------											
34)	C	hexane				0.447	0.450	0.468	0.547	0.552	0.362	0.348	0.4535	17.58
35)	s	1,2-dichloroethane-D4				0.232	0.229	0.235	0.245	0.247	0.234	0.227	0.2353	3.34
36)	C	1,1,1-trichloroethane	0.297	0.346	0.329	0.328	0.332	0.343	0.412	0.424	0.279	0.290	0.3380	14.15

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: AKRF, Inc.**	**Lab Number**	**: L2432670**
Project Name	**: BUD NORTH**	**Project Number**	**: 200112**
Instrument ID	**: AIRLAB15**	**Ical Ref**	**: ICAL21075**
Calibration dates	**: 04/26/24 20:31 04/27/24 02:43**		

Calibration Files

0.02=r1547517_Ev2.D 0.05=r1547518_Ev2.D 0.1 =r1547519_Ev2.D 0.2 =r1547520_Ev2.D 0.5 =r1547521_Ev2.D

1.0 =r1547522_Ev2.D 5.0 =r1547523_Ev2.D 10.0=r1547524_Ev2.D 20.0=r1547525_Ev2.D 50.0=r1547526_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			0.834	0.759	0.771	0.785	0.936	0.949	0.639	0.667	0.7927	14.12
38)	C	carbon tetrachloride	0.265	0.295	0.283	0.279	0.277	0.285	0.348	0.357	0.236	0.246	0.2870	13.62
39)		cyclohexane				0.457	0.474	0.490	0.581	0.589	0.391	0.395	0.4823	16.50
40)		Dibromomethane		0.213	0.256	0.250	0.253	0.262	0.310	0.318	0.214	0.219	0.2551	15.05
41)	C	1,2-dichloropropane	0.316	0.305	0.305	0.300	0.316	0.323	0.387	0.399	0.269	0.280	0.3200	13.07
42)		bromodichloromethane	0.386	0.317	0.351	0.345	0.364	0.376	0.458	0.476	0.314	0.325	0.3712	15.12
43)	C	1,4-dioxane			0.153	0.160	0.169	0.176	0.220	0.227	0.153	0.160	0.1774	16.80
44)	C	trichloroethene	0.324	0.349	0.313	0.320	0.334	0.356	0.420	0.428	0.287	0.296	0.3427	13.92
45)	C	2,2,4-trimethylpentane		1.445	1.415	1.444	1.526	1.569	1.853	1.861	1.203	1.174	1.4987	16.15
46)		heptane				0.445	0.468	0.482	0.582	0.596	0.405	0.418	0.4850	15.61
47)	C	cis-1,3-dichloropropene	0.278	0.269	0.284	0.284	0.310	0.325	0.433	0.457	0.310	0.336	0.3286	19.81
48)	C	4-methyl-2-pentanone					0.462	0.506	0.648	0.666	0.456	0.484	0.5372	17.63
49)		trans-1,3-dichloropropene	0.172	0.172	0.159	0.197	0.219	0.242	0.329	0.351	0.239	0.261	0.2342	27.88
50)	C	1,1,2-trichloroethane	0.324	0.304	0.306	0.308	0.319	0.322	0.388	0.402	0.271	0.284	0.3229	12.87
51)	I	chlorobenzene-D5	----------ISTD----------											
52)	C	toluene			6.157	5.961	6.147	6.293	7.563	7.720	5.419	5.813	6.3843	12.87
53)	s	toluene-D8				5.436	5.449	5.702	5.845	5.993	6.248	6.654	5.9038	7.45
54)		2-hexanone				1.852	2.343	2.674	3.627	3.864	2.739	3.098	2.8854	24.44
55)		dibromochloromethane	1.873	1.923	2.090	2.069	2.195	2.313	3.016	3.172	2.258	2.504	2.3413	18.75
56)	C	1,2-dibromoethane	1.847	2.360	2.279	2.369	2.532	2.667	3.312	3.430	2.469	2.791	2.6056	18.27
57)	C	tetrachloroethene	2.438	2.236	2.242	2.206	2.294	2.337	2.815	2.885	2.032	2.235	2.3721	11.49
58)		1,1,1,2-tetrachloroethane	2.027	1.927	1.916	1.860	1.926	2.010	2.456	2.542	1.835	1.962	2.0462	12.05
59)	C	chlorobenzene	4.445	4.571	4.463	4.308	4.513	4.601	5.562	5.692	4.048	4.455	4.6657	11.38
60)	C	ethylbenzene	0.711	0.729	0.748	0.717	0.763	0.798	0.992	1.016	0.706	0.756	0.7937	14.39
61)	C	m+p-xylene	5.625	5.453	5.702	5.651	6.169	6.385	7.873	7.990	5.565	5.762	6.2177	15.23
62)	C	bromoform	1.687	1.544	1.575	1.517	1.640	1.834	2.518	2.695	1.955	2.210	1.9175	22.04
63)	C	styrene	3.184	3.334	3.508	3.972	4.353	4.643	6.011	6.242	4.513	5.034	4.4794	23.52
64)	C	1,1,2,2-tetrachloroethane	4.182	4.264	4.142	3.963	4.280	4.479	5.424	5.492	3.774	3.842	4.3841	13.78
65)	C	o-xylene	5.361	5.842	5.932	5.847	6.274	6.562	7.949	8.027	5.513	5.546	6.2852	15.36
66)		1,2,3-Trichloropropane	2.788	2.716	2.900	2.836	2.990	3.166	3.794	3.873	2.777	3.082	3.0921	13.44
67)	s	bromofluorobenzene				3.578	3.889	4.156	4.328	4.152	4.318	4.644	4.1520	8.23
68)	C	isopropylbenzene				7.070	7.519	7.835	9.441	9.681	6.966	7.606	8.0171	13.71
69)		Bromobenzene	3.766	3.823	3.758	3.866	4.059	4.224	5.031	5.140	3.651	3.976	4.1295	12.85
70)		4-ethyl toluene	0.611	0.660	0.659	0.669	0.760	0.809	1.008	1.039	0.745	0.810	0.7769	18.82
71)		1,3,5-trimethylbenzene	5.160	5.504	5.445	6.934	7.586	7.930	9.645	8.797	6.183	6.766	6.9950	21.42
72)		tert-butylbenzene				6.302	6.967	7.409	8.847	8.855	6.184	6.208	7.2530	16.27

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: AKRF, Inc.**	**Lab Number**	**: L2432670**
Project Name	**: BUD NORTH**	**Project Number**	**: 200112**
Instrument ID	**: AIRLAB15**	**Ical Ref**	**: ICAL21075**
Calibration dates	**: 04/26/24 20:31 04/27/24 02:43**		

Calibration Files

0.02=r1547517_Ev2.D 0.05=r1547518_Ev2.D 0.1 =r1547519_Ev2.D 0.2 =r1547520_Ev2.D 0.5 =r1547521_Ev2.D

1.0 =r1547522_Ev2.D 5.0 =r1547523_Ev2.D 10.0=r1547524_Ev2.D 20.0=r1547525_Ev2.D 50.0=r1547526_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	5.103	5.545	5.781	5.806	6.504	6.995	8.691	8.794	6.129	6.214	6.5563	19.26
74)	C	Benzyl Chloride			2.260	2.206	2.646	3.098	4.851	5.577	4.134	4.813	3.6980	35.48#
75)		1,3-dichlorobenzene	3.797	4.128	4.251	3.845	4.448	4.771	6.125	6.259	4.417	4.791	4.6832	18.41
76)	C	1,4-dichlorobenzene	4.342	4.082	4.008	3.989	4.403	4.683	5.914	6.145	4.326	4.778	4.6670	16.41
77)		sec-butylbenzene				0.860	0.957	1.014	1.240	1.257	0.896	0.960	1.0261	15.57
78)		p-isopropyltoluene				7.175	7.836	7.944	9.550	9.802	7.071	6.321	7.9570	16.25
79)		1,2-dichlorobenzene	4.501	4.278	4.100	3.839	4.192	4.457	5.556	5.923	4.156	4.633	4.5634	14.57
80)		n-butylbenzene				0.680	0.781	0.832	1.015	1.036	0.725	0.760	0.8327	16.81
81)		1,2-dibromo-3-chloropr...	1.194	1.177	1.184	1.023	1.227	1.347	1.808	1.932	1.381	1.602	1.3874	21.53
82)	C	1,2,4-trichlorobenzene		2.549	2.298	1.794	2.468	2.804	4.112	4.591	3.074	3.626	3.0351	29.99
83)		naphthalene		0.599	0.657	0.502	0.741	0.859	1.119	1.231	0.845	0.977	0.8367	28.83
84)		1,2,3-trichlorobenzene		2.395	2.317	1.619	2.364	2.718	3.528	4.013	2.732	3.339	2.7806	26.31
85)	C	hexachlorobutadiene		2.559	2.709	1.995	2.545	2.779	3.487	3.697	2.404	2.725	2.7669	18.99

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Method File : TSIM15_240426.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Sat Apr 27 13:05:54 2024
Response Via : Initial Calibration

Calibration Files
0.02=r1547517_Ev2.D 0.05=r1547518_Ev2.D 0.1 =r1547519_Ev2.D 0.2 =r1547520_Ev2.D 0.5 =r1547521_Ev2.D
1.0 =r1547522_Ev2.D 5.0 =r1547523_Ev2.D 10.0=r1547524_Ev2.D 20.0=r1547525_Ev2.D 50.0=r1547526_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				1.286	0.892	0.759	0.734	0.746	0.502	0.553	0.7817	33.07#
3)		dichlorodifluorome...				1.143	1.157	1.172	1.397	1.239	0.851	0.868	1.1181	17.54
4)	C	chloromethane				0.435	0.428	0.437	0.498	0.480	0.328	0.349	0.4223	14.90
5)		Freon-114		1.075	1.103	1.116	1.140	1.161	1.331	1.271	0.861	0.860	1.1020	14.48
6)	C	vinyl chloride	0.577	0.554	0.618	0.620	0.637	0.665	0.795	0.758	0.504	0.520	0.6248	15.21
7)	C	1,3-butadiene	0.276	0.302	0.319	0.354	0.386	0.387	0.459	0.443	0.301	0.316	0.3543	17.73
8)	C	bromomethane	0.494	0.509	0.511	0.479	0.500	0.528	0.618	0.597	0.399	0.412	0.5047	13.61
9)	C	chloroethane			0.338	0.321	0.331	0.341	0.395	0.390	0.262	0.274	0.3317	14.32
10)		ethanol					0.382	0.402	0.441	0.426	0.275	0.276	0.3670	20.04
11)	C	vinyl bromide				0.488	0.521	0.546	0.654	0.668	0.463	0.488	0.5470	15.05
12)	C	acrolein		0.221	0.202	0.201	0.224	0.216	0.252	0.261	0.180	0.188	0.2162	12.61
13)		acetone				0.641	0.647	0.667	0.727	0.729	0.507	0.522	0.6341	14.08
14)		trichlorofluoromet...		1.036	1.070	0.913	0.973	0.978	1.130	1.116	0.731	0.749	0.9661	15.11
15)		isopropyl alcohol				0.802	0.782	0.780	0.859	0.873	0.623	0.663	0.7689	12.21
16)	C	acrylonitrile				0.297	0.308	0.305	0.461	0.441	0.299	0.323	0.3476	20.51
17)	C	1,1-dichloroethene	1.115	0.804	1.026	1.061	1.103	1.122	1.323	1.343	0.919	0.962	1.0779	15.49
18)		tertiary butyl alc...					1.259	1.315	1.510	1.584	1.125	1.195	1.3314	13.53
19)	C	methylene chloride					0.781	0.792	0.867	0.884	0.599	0.629	0.7587	15.79
20)	C	3-chloropropene					0.888	0.921	1.110	1.168	0.833	0.914	0.9724	13.79
21)	C	carbon disulfide				1.754	1.784	1.859	2.270	2.321	1.658	1.757	1.9145	13.95
22)		Freon 113	1.785	1.585	1.442	1.403	1.377	1.373	1.579	1.597	1.120	1.183	1.4444	13.88
23)		trans-1,2-dichloro...	0.973	1.108	1.048	1.014	1.100	1.126	1.344	1.381	0.965	1.019	1.1079	13.09
24)	C	1,1-dichloroethane	1.257	1.334	1.330	1.348	1.406	1.432	1.689	1.718	1.194	1.268	1.3976	12.58
25)	C	MTBE	1.329	1.449	1.433	1.433	1.493	1.542	1.832	1.872	1.328	1.437	1.5148	12.50
26)	C	vinyl acetate					1.205	1.260	1.552	1.616	1.170	1.311	1.3523	13.82
27)	C	2-butanone				1.265	1.319	1.400	1.743	1.789	1.206	1.312	1.4335	16.38
28)		cis-1,2-dichloroet...	0.917	0.900	1.004	1.019	1.036	1.054	1.297	1.321	0.907	0.957	1.0412	14.53
29)		Ethyl Acetate					0.260	0.274	0.345	0.361	0.253	0.264	0.2929	16.24
30)	C	chloroform	1.030	1.205	1.130	1.169	1.201	1.250	1.434	1.432	0.964	0.982	1.1796	13.97
31)		Tetrahydrofuran				0.771	0.822	0.869	1.062	1.107	0.787	0.865	0.8976	14.83

Response Factor Report

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Method File : TSIM15_240426.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Sat Apr 27 13:05:54 2024
Response Via : Initial Calibration

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		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
32)	C	1,2-dichloroethane	0.749	0.749	0.731	0.845	0.832	0.824	0.955	0.966	0.648	0.676	0.7974	13.45
33)	I	1,4-difluorobenzene	----------	----------	----------	ISTD	----------	----------	----------	----------	----------	----------		
34)	C	hexane				0.447	0.450	0.468	0.547	0.552	0.362	0.348	0.4535	17.58
35)	s	1,2-dichloroethane-D4				0.232	0.229	0.235	0.245	0.247	0.234	0.227	0.2353	3.34
36)	C	1,1,1-trichloroethane	0.297	0.346	0.329	0.328	0.332	0.343	0.412	0.424	0.279	0.290	0.3380	14.15
37)	C	benzene			0.834	0.759	0.771	0.785	0.936	0.949	0.639	0.667	0.7927	14.12
38)	C	carbon tetrachloride	0.265	0.295	0.283	0.279	0.277	0.285	0.348	0.357	0.236	0.246	0.2870	13.62
39)		cyclohexane				0.457	0.474	0.490	0.581	0.589	0.391	0.395	0.4823	16.50
40)		Dibromomethane		0.213	0.256	0.250	0.253	0.262	0.310	0.318	0.214	0.219	0.2551	15.05
41)	C	1,2-dichloropropane	0.316	0.305	0.305	0.300	0.316	0.323	0.387	0.399	0.269	0.280	0.3200	13.07
42)		bromodichloromethane	0.386	0.317	0.351	0.345	0.364	0.376	0.458	0.476	0.314	0.325	0.3712	15.12
43)	C	1,4-dioxane			0.153	0.160	0.169	0.176	0.220	0.227	0.153	0.160	0.1774	16.80
44)	C	trichloroethene	0.324	0.349	0.313	0.320	0.334	0.356	0.420	0.428	0.287	0.296	0.3427	13.92
45)	C	2,2,4-trimethylpen...		1.445	1.415	1.444	1.526	1.569	1.853	1.861	1.203	1.174	1.4987	16.15
46)		heptane				0.445	0.468	0.482	0.582	0.596	0.405	0.418	0.4850	15.61
47)	C	cis-1,3-dichloropr...	0.278	0.269	0.284	0.284	0.310	0.325	0.433	0.457	0.310	0.336	0.3286	19.81
48)	C	4-methyl-2-pentanone					0.462	0.506	0.648	0.666	0.456	0.484	0.5372	17.63
49)		trans-1,3-dichloro...	0.172	0.172	0.159	0.197	0.219	0.242	0.329	0.351	0.239	0.261	0.2342	27.88
50)	C	1,1,2-trichloroethane	0.324	0.304	0.306	0.308	0.319	0.322	0.388	0.402	0.271	0.284	0.3229	12.87
51)	I	chlorobenzene-D5	----------	----------	----------	ISTD	----------	----------	----------	----------	----------	----------		
52)	C	toluene			6.157	5.961	6.147	6.293	7.563	7.720	5.419	5.813	6.3843	12.87
53)	s	toluene-D8				5.436	5.449	5.702	5.845	5.993	6.248	6.654	5.9038	7.45
54)		2-hexanone				1.852	2.343	2.674	3.627	3.864	2.739	3.098	2.8854	24.44
55)		dibromochloromethane	1.873	1.923	2.090	2.069	2.195	2.313	3.016	3.172	2.258	2.504	2.3413	18.75
56)	C	1,2-dibromoethane	1.847	2.360	2.279	2.369	2.532	2.667	3.312	3.430	2.469	2.791	2.6056	18.27
57)	C	tetrachloroethene	2.438	2.236	2.242	2.206	2.294	2.337	2.815	2.885	2.032	2.235	2.3721	11.49
58)		1,1,1,2-tetrachlor...	2.027	1.927	1.916	1.860	1.926	2.010	2.456	2.542	1.835	1.962	2.0462	12.05
59)	C	chlorobenzene	4.445	4.571	4.463	4.308	4.513	4.601	5.562	5.692	4.048	4.455	4.6657	11.38
60)	C	ethylbenzene	0.711	0.729	0.748	0.717	0.763	0.798	0.992	1.016	0.706	0.756	0.7937	14.39
61)	C	m+p-xylene	5.625	5.453	5.702	5.651	6.169	6.385	7.873	7.990	5.565	5.762	6.2177	15.23

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Method File : TSIM15_240426.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Sat Apr 27 13:05:54 2024
Response Via : Initial Calibration

Calibration Files
0.02=r1547517_Ev2.D 0.05=r1547518_Ev2.D 0.1 =r1547519_Ev2.D 0.2 =r1547520_Ev2.D 0.5 =r1547521_Ev2.D
1.0 =r1547522_Ev2.D 5.0 =r1547523_Ev2.D 10.0=r1547524_Ev2.D 20.0=r1547525_Ev2.D 50.0=r1547526_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
62)	C	bromoform	1.687	1.544	1.575	1.517	1.640	1.834	2.518	2.695	1.955	2.210	1.9175	22.04
63)	C	styrene	3.184	3.334	3.508	3.972	4.353	4.643	6.011	6.242	4.513	5.034	4.4794	23.52
64)	C	1,1,2,2-tetrachlor...	4.182	4.264	4.142	3.963	4.280	4.479	5.424	5.492	3.774	3.842	4.3841	13.78
65)	C	o-xylene	5.361	5.842	5.932	5.847	6.274	6.562	7.949	8.027	5.513	5.546	6.2852	15.36
66)		1,2,3-Trichloropro...	2.788	2.716	2.900	2.836	2.990	3.166	3.794	3.873	2.777	3.082	3.0921	13.44
67)	s	bromofluorobenzene				3.578	3.889	4.156	4.328	4.152	4.318	4.644	4.1520	8.23
68)	C	isopropylbenzene				7.070	7.519	7.835	9.441	9.681	6.966	7.606	8.0171	13.71
69)		Bromobenzene	3.766	3.823	3.758	3.866	4.059	4.224	5.031	5.140	3.651	3.976	4.1295	12.85
70)		4-ethyl toluene	0.611	0.660	0.659	0.669	0.760	0.809	1.008	1.039	0.745	0.810	0.7769	18.82
71)		1,3,5-trimethylben...	5.160	5.504	5.445	6.934	7.586	7.930	9.645	8.797	6.183	6.766	6.9950	21.42
72)		tert-butylbenzene				6.302	6.967	7.409	8.847	8.855	6.184	6.208	7.2530	16.27
73)		1,2,4-trimethylben...	5.103	5.545	5.781	5.806	6.504	6.995	8.691	8.794	6.129	6.214	6.5563	19.26
74)	C	Benzyl Chloride			2.260	2.206	2.646	3.098	4.851	5.577	4.134	4.813	3.6980	35.48#
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76)	C	1,4-dichlorobenzene	4.342	4.082	4.008	3.989	4.403	4.683	5.914	6.145	4.326	4.778	4.6670	16.41
77)		sec-butylbenzene				0.860	0.957	1.014	1.240	1.257	0.896	0.960	1.0261	15.57
78)		p-isopropyltoluene				7.175	7.836	7.944	9.550	9.802	7.071	6.321	7.9570	16.25
79)		1,2-dichlorobenzene	4.501	4.278	4.100	3.839	4.192	4.457	5.556	5.923	4.156	4.633	4.5634	14.57
80)		n-butylbenzene				0.680	0.781	0.832	1.015	1.036	0.725	0.760	0.8327	16.81
81)		1,2-dibromo-3-chlo...	1.194	1.177	1.184	1.023	1.227	1.347	1.808	1.932	1.381	1.602	1.3874	21.53
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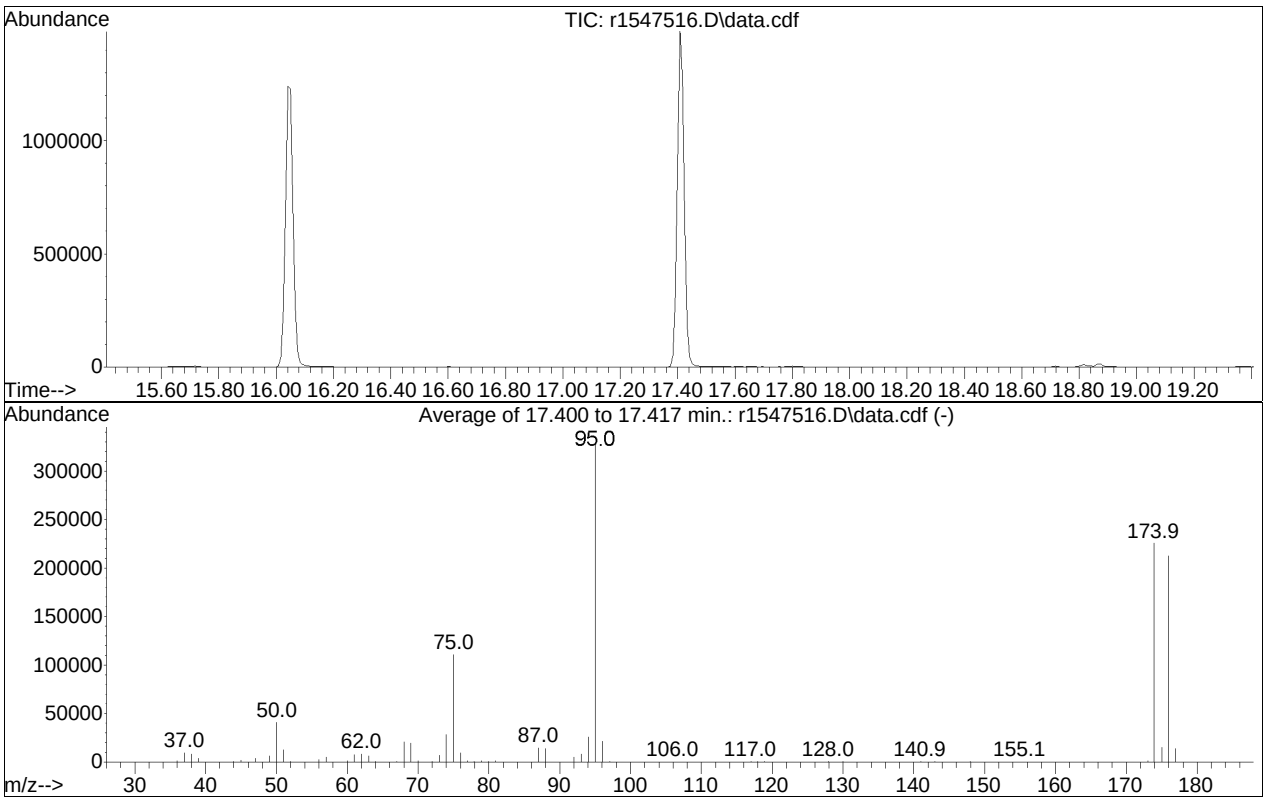
83)		naphthalene		0.599	0.657	0.502	0.741	0.859	1.119	1.231	0.845	0.977	0.8367	28.83
84)		1,2,3-trichloroben...		2.395	2.317	1.619	2.364	2.718	3.528	4.013	2.732	3.339	2.7806	26.31
85)	C	hexachlorobutadiene		2.559	2.709	1.995	2.545	2.779	3.487	3.697	2.404	2.725	2.7669	18.99

(#) = Out of Range

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547516.D
Acq On : 26 Apr 2024 7:53 PM
Operator : AIRLAB15:JMB
Sample : WG1914197-1,3,250,250
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Sat Apr 27 13:05:54 2024



AutoFind: Scans 2062, 2063, 2064; Background Corrected with Scan 2057

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	12.4	40790	PASS
75	95	30	66	33.7	110789	PASS
95	95	100	100	100.0	329191	PASS
96	95	5	9	6.4	21140	PASS
173	174	0.00	2	0.5	1213	PASS
174	95	50	120	68.6	225834	PASS
175	174	4	9	6.7	15113	PASS
176	174	93	101	94.1	212415	PASS
177	176	5	9	6.6	14023	PASS

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547517_Ev2.D
Acq On : 26 Apr 2024 8:31 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD0.02
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 09:00:03 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:59:33 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\r1547523_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.108	49	194147	10.000	ppbV	0.00
Standard Area = 201665			Recovery = 96.27%			
33) 1,4-difluorobenzene	11.347	114	605759	10.000	ppbV	0.00
Standard Area = 630510			Recovery = 96.07%			
51) chlorobenzene-D5	16.042	54	97192	10.000	ppbV	0.00
Standard Area = 101854			Recovery = 95.42%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.983	65	107	0.008	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.08%#			
53) toluene-D8	14.192	98	817	0.017	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.17%#			
67) bromofluorobenzene	17.417	95	2226	0.063	ppbV	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.63%#			
Target Compounds						Qvalue
2) propylene	3.916	41	3236M6	0.262	ppbV	
3) dichlorodifluoromethane	3.988	85	577	0.033	ppbV	94
4) chloromethane	4.156	50	198	0.020	ppbV #	78
5) Freon-114	4.264	85	415	0.020	ppbV #	89
6) vinyl chloride	4.384	62	224	0.022	ppbV #	73
7) 1,3-butadiene	4.534	54	107	0.012	ppbV #	53
8) bromomethane	4.816	94	192	0.025	ppbV	86
9) chloroethane	5.008	64	161	0.033	ppbV #	47
10) ethanol	5.164	31	973	0.110	ppbV	96
11) vinyl bromide	5.390	106	175M4	0.024	ppbV	
12) acrolein	5.543	56	93	0.020	ppbV #	25
13) acetone	5.690	43	1976	0.175	ppbV #	99
14) trichlorofluoromethane	5.847	101	446	0.038	ppbV	86
15) isopropyl alcohol	5.980	45	1588	0.099	ppbV #	94
16) acrylonitrile	0.000		0	N.D.	d	
17) 1,1-dichloroethene	6.546	61	433	0.030	ppbV	93
18) tertiary butyl alcohol	6.666	59	521	0.027	ppbV #	84
19) methylene chloride	6.690	49	1991	0.131	ppbV	100
20) 3-chloropropene	6.822	41	277	0.017	ppbV #	72
21) carbon disulfide	7.002	76	762M4	0.025	ppbV	
22) Freon 113	6.990	101	693	0.037	ppbV #	93
23) trans-1,2-dichloroethene	7.750	61	378M4	0.026	ppbV	
24) 1,1-dichloroethane	7.967	63	488M4	0.026	ppbV	

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547517_Ev2.D
Acq On : 26 Apr 2024 8:31 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD0.02
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 09:00:03 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:59:33 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\r1547523_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	8.083	73	516M4	0.019	ppbV		
26) vinyl acetate	8.183	43	606	0.024	ppbV	#	77
27) 2-butanone	8.467	43	622	0.023	ppbV	#	84
28) cis-1,2-dichloroethene	8.925	61	356M4	0.025	ppbV		
29) Ethyl Acetate	9.225	61	81	0.020	ppbV	#	13
30) chloroform	9.267	83	400	0.021	ppbV	#	80
31) Tetrahydrofuran	9.758	42	292	0.018	ppbV	#	75
32) 1,2-dichloroethane	10.108	62	291	0.028	ppbV	#	56
34) hexane	9.175	57	629	0.023	ppbV	#	30
36) 1,1,1-trichloroethane	10.400	97	360	0.020	ppbV	#	88
37) benzene	10.920	78	1097M4	0.020	ppbV		
38) carbon tetrachloride	11.087	117	321	0.019	ppbV	#	75
39) cyclohexane	11.240	56	549	0.018	ppbV		95
40) Dibromomethane	11.840	93	430	0.031	ppbV	#	59
41) 1,2-dichloropropane	11.880	63	383	0.021	ppbV	#	87
42) bromodichloromethane	12.100	83	468	0.021	ppbV	#	91
43) 1,4-dioxane	0.000		0	N.D.	d		
44) trichloroethene	12.160	130	392	0.021	ppbV		88
45) 2,2,4-trimethylpentane	12.193	57	1618	0.018	ppbV	#	94
46) heptane	12.507	43	532	0.014	ppbV	#	78
47) cis-1,3-dichloropropene	13.183	75	337	0.014	ppbV	#	45
48) 4-methyl-2-pentanone	13.258		0	N.D.			
49) trans-1,3-dichloropropene	13.808	75	208	0.012	ppbV	#	52
50) 1,1,2-trichloroethane	14.000	97	393	0.022	ppbV		97
52) toluene	14.300	91	1144	0.021	ppbV		98
54) 2-hexanone	0.000		0	N.D.			
55) dibromochloromethane	14.742	129	364M4	0.020	ppbV		
56) 1,2-dibromoethane	15.000	107	359	0.015	ppbV		96
57) tetrachloroethene	15.442	166	474	0.025	ppbV	#	95
58) 1,1,1,2-tetrachloroethane	16.067	131	394	0.023	ppbV	#	91
59) chlorobenzene	16.083	112	864	0.019	ppbV		91
60) ethylbenzene	16.433	91	1383	0.019	ppbV		97
61) m+p-xylene	16.608	91	2187	0.038	ppbV		99
62) bromoform	16.667	173	328	0.023	ppbV		95
63) styrene	16.933	104	619	0.014	ppbV	#	85
64) 1,1,2,2-tetrachloroethane	17.017	83	813	0.019	ppbV		100
65) o-xylene	17.017	91	1042	0.018	ppbV		96
66) 1,2,3-Trichloropropane	17.133	75	542	0.016	ppbV		97
68) isopropylbenzene	17.525	105	1241	0.016	ppbV		93
69) Bromobenzene	17.608	77	732	0.017	ppbV		87

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547517_Ev2.D
Acq On : 26 Apr 2024 8:31 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD0.02
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 09:00:03 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:59:33 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\r1547523_Ev2.D
Sub List : Default - All compounds listed

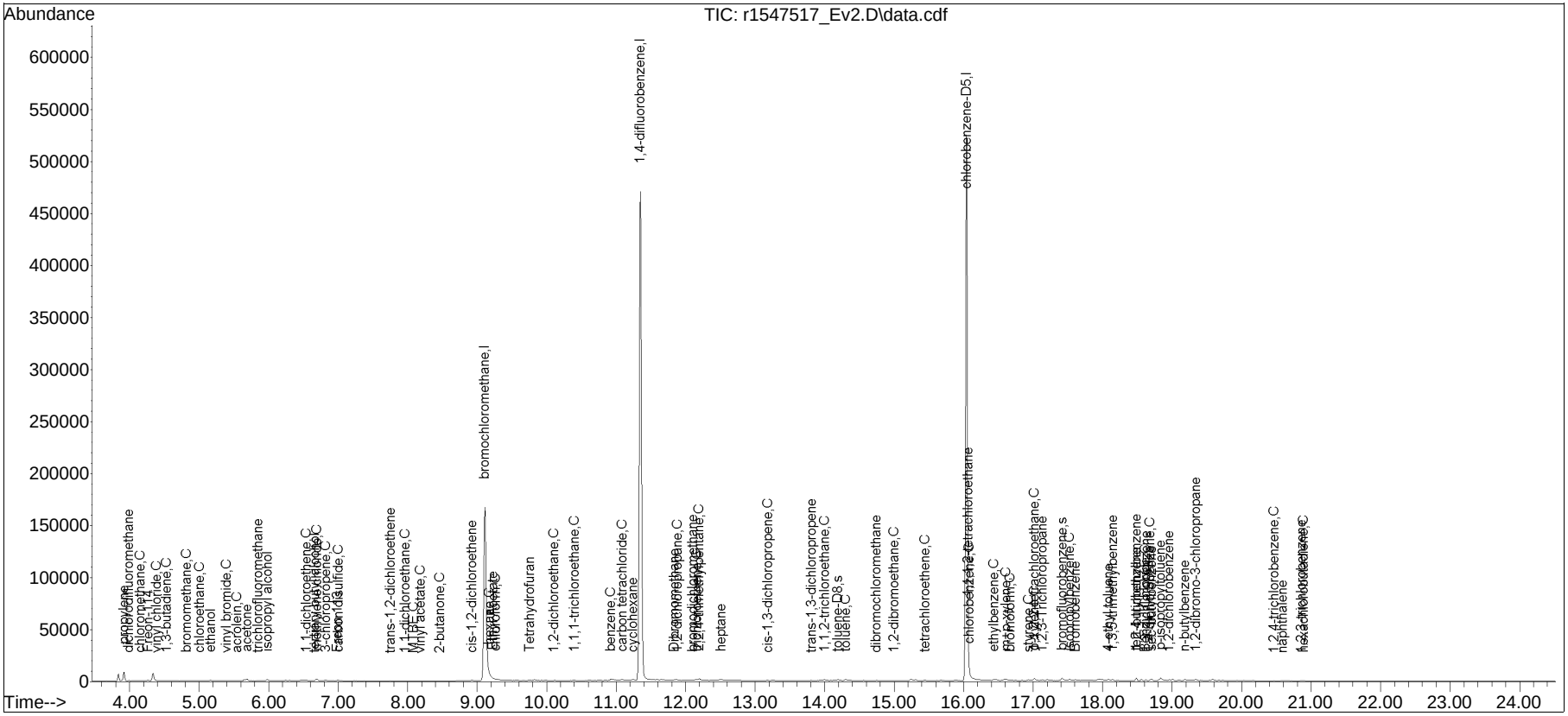
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.083	105	1187	0.016	ppbV #	86
71) 1,3,5-trimethylbenzene	18.142	105	1003	0.013	ppbV #	94
72) tert-butylbenzene	18.483	119	1171	0.018	ppbV	99
73) 1,2,4-trimethylbenzene	18.483	105	992	0.015	ppbV #	83
74) Benzyl Chloride	18.617	91	401M3	0.011	ppbV	
75) 1,3-dichlorobenzene	18.625	146	738	0.017	ppbV #	91
76) 1,4-dichlorobenzene	18.683	146	844M4	0.020	ppbV	
77) sec-butylbenzene	18.708	105	1608	0.016	ppbV #	86
78) p-isopropyltoluene	18.833	119	1650	0.022	ppbV	94
79) 1,2-dichlorobenzene	18.958	146	875	0.022	ppbV #	84
80) n-butylbenzene	19.183	91	1341	0.018	ppbV #	85
81) 1,2-dibromo-3-chloropr...	19.342	75	232	0.016	ppbV	95
82) 1,2,4-trichlorobenzene	20.467	180	496	0.020	ppbV #	80
83) naphthalene	20.592	128	1897M4	0.020	ppbV	
84) 1,2,3-trichlorobenzene	20.858	180	481	0.021	ppbV #	79
85) hexachlorobutadiene	20.892	225	437	0.019	ppbV #	85

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

Sub List : Default - All compounds listed4\04\0426SIM_I\r1547523_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547517_Ev2.D
Acq On : 26 Apr 2024 8:31 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD0.02
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

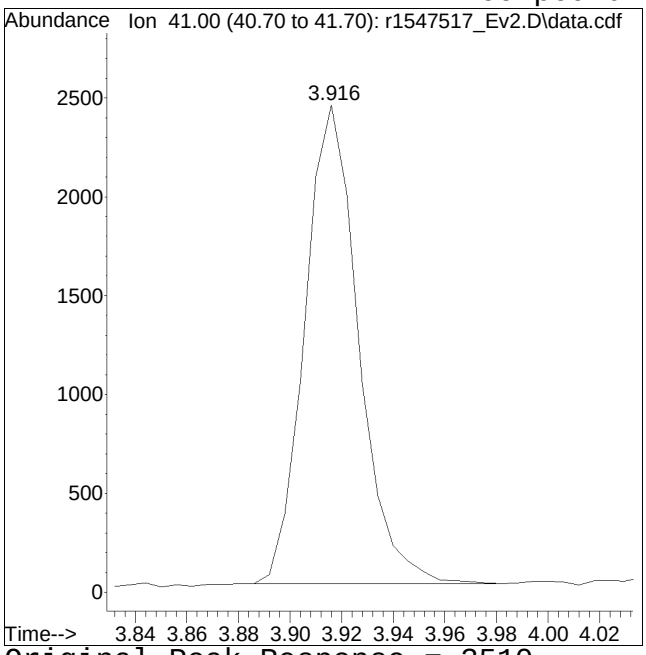
Quant Time: Apr 27 09:00:03 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:59:33 2024
Response via : Initial Calibration



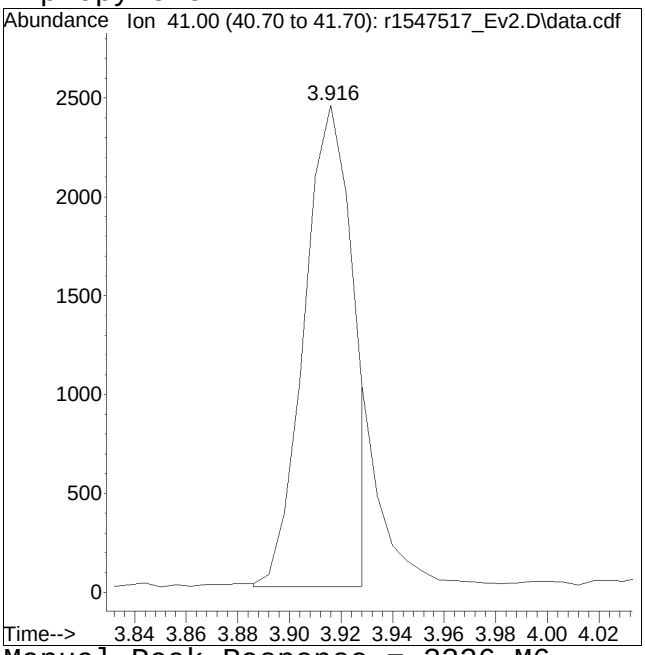
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1547517_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 4/26/2020 0:8: 1 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 4/27/2024 9:00 am

Compound #2: propylene



Original Peak Response = 3510



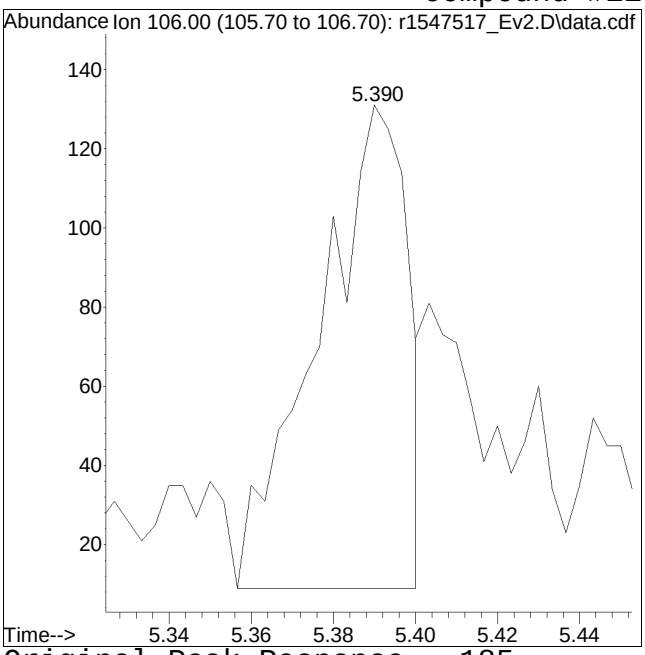
Manual Peak Response = 3236 M6

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

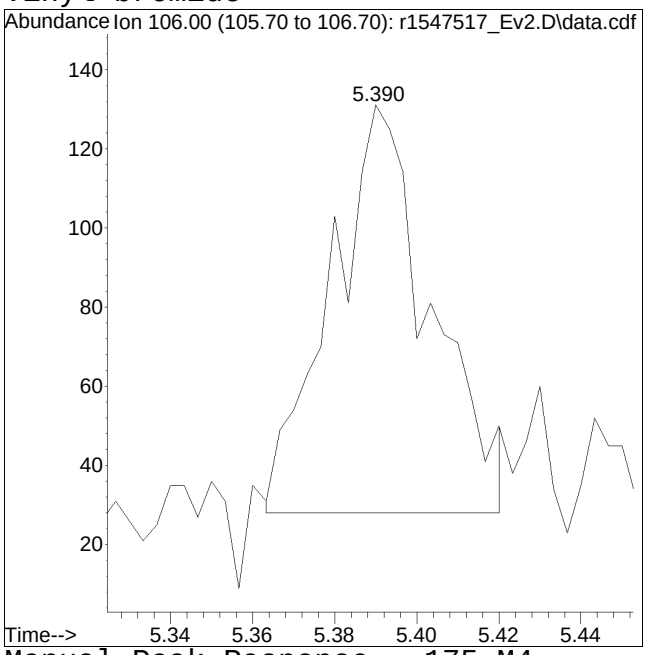
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1547517_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 4/26/2020 0:8: 1 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 4/27/2024 9:00 am

Compound #11: vinyl bromide



Original Peak Response = 185



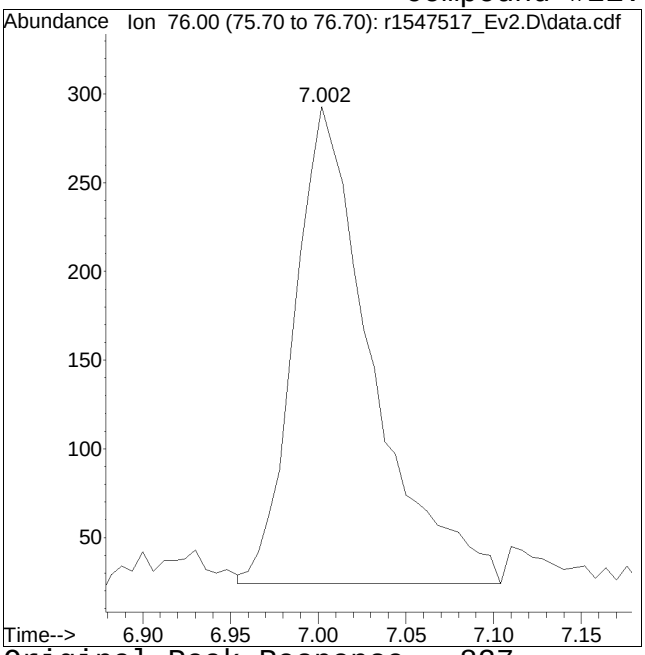
Manual Peak Response = 175 M4

M4 = Poor automated baseline construction.

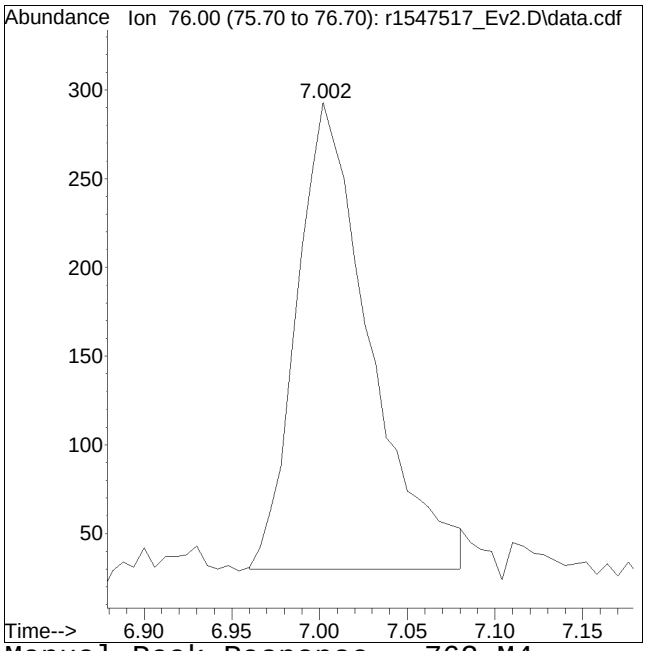
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1547517_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 4/26/2020 0:8: 1 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 4/27/2024 9:00 am

Compound #21: carbon disulfide



Original Peak Response = 827



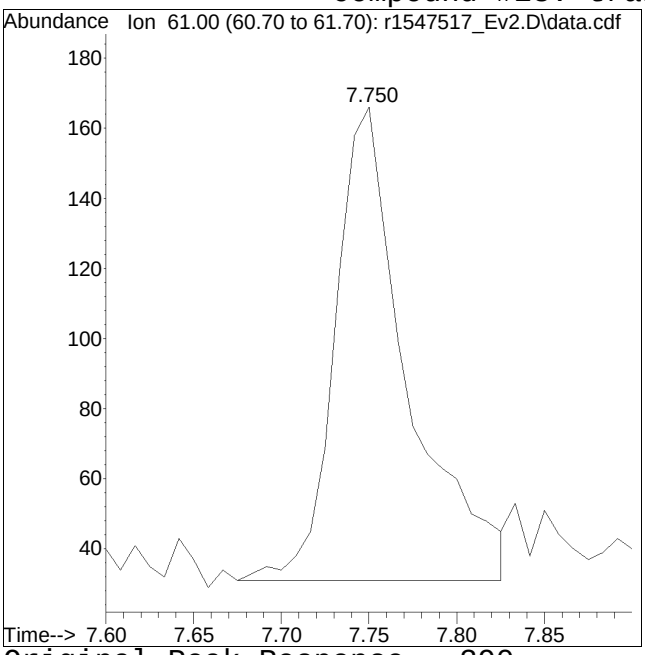
Manual Peak Response = 762 M4

M4 = Poor automated baseline construction.

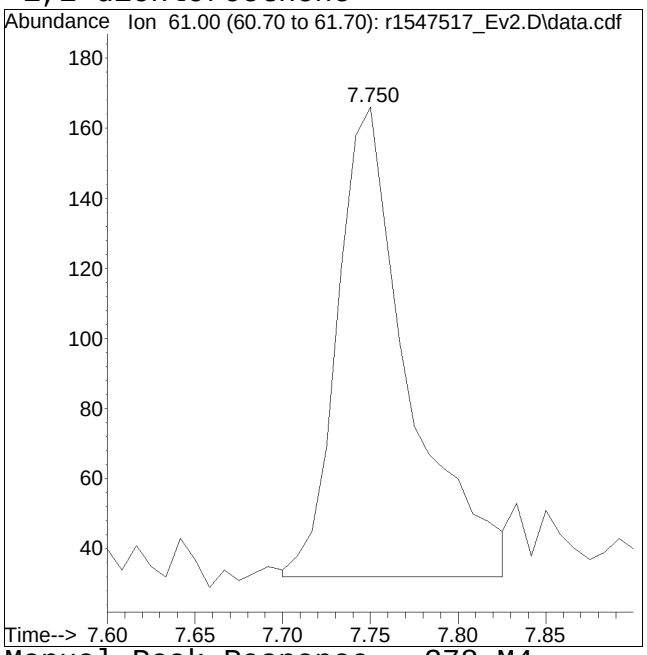
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1547517_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 4/26/2020 0:8: 1 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 4/27/2024 9:00 am

Compound #23: trans-1,2-dichloroethene



Original Peak Response = 390



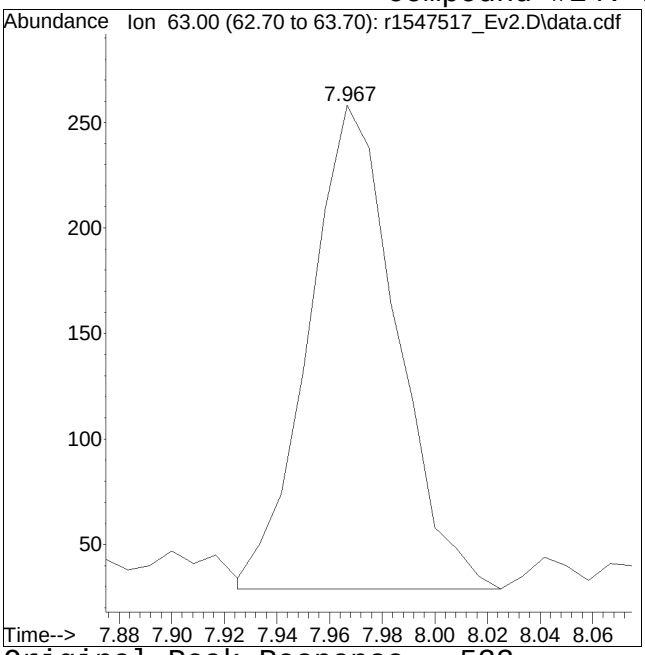
Manual Peak Response = 378 M4

M4 = Poor automated baseline construction.

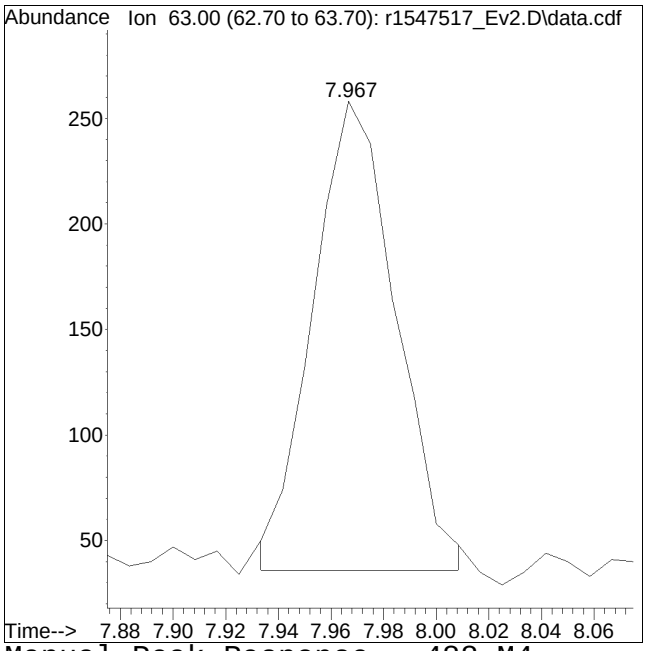
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1547517_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 4/26/2020 0:8: 1 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 4/27/2024 9:00 am

Compound #24: 1,1-dichloroethane



Original Peak Response = 533



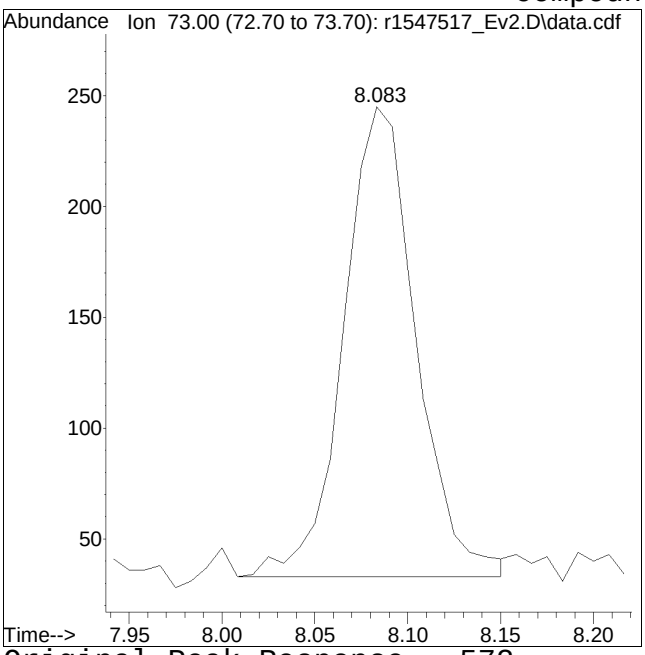
Manual Peak Response = 488 M4

M4 = Poor automated baseline construction.

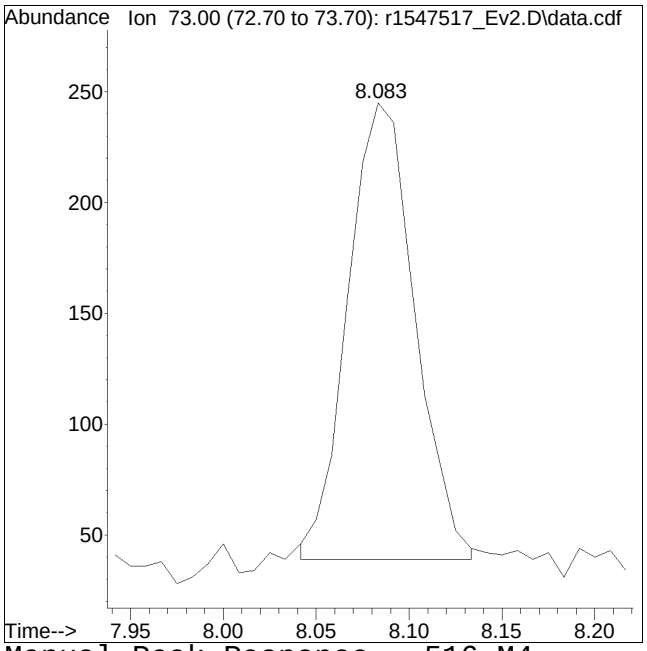
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1547517_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 4/26/2020 0:8: 1 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 4/27/2024 9:00 am

Compound #25: MTBE



Original Peak Response = 572



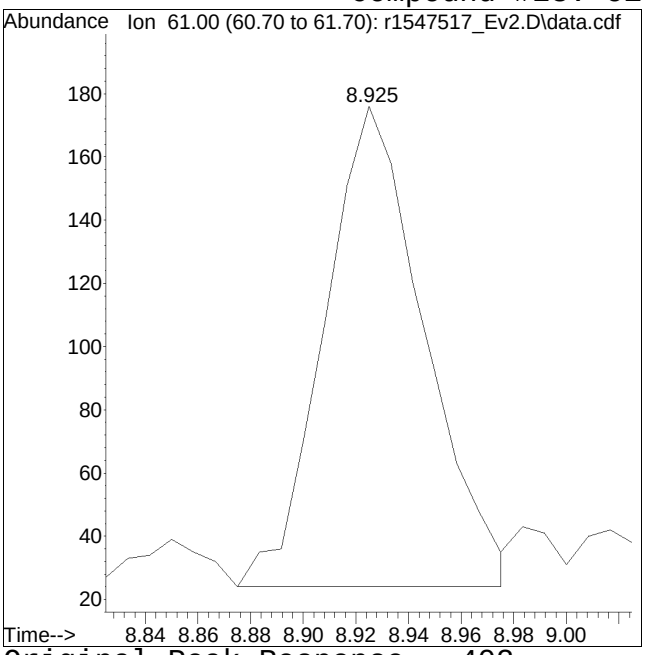
Manual Peak Response = 516 M4

M4 = Poor automated baseline construction.

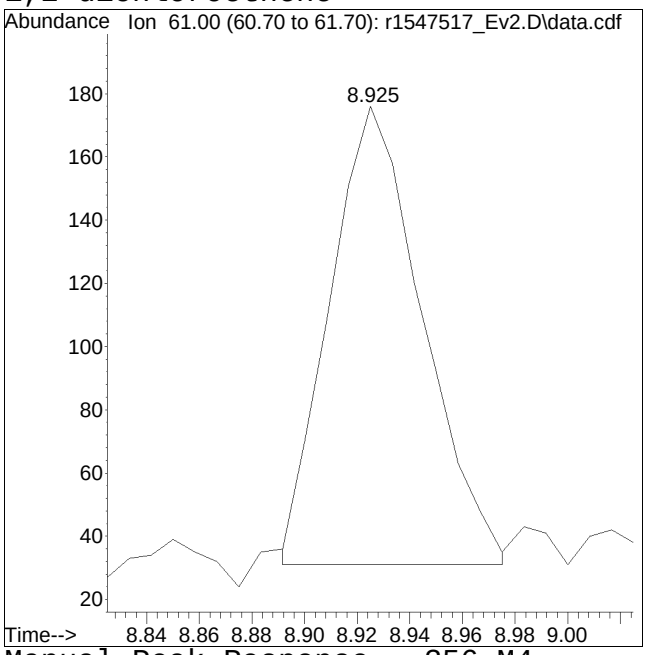
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1547517_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 4/26/2020 0:8: 1 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 4/27/2024 9:00 am

Compound #28: cis-1,2-dichloroethene



Original Peak Response = 402



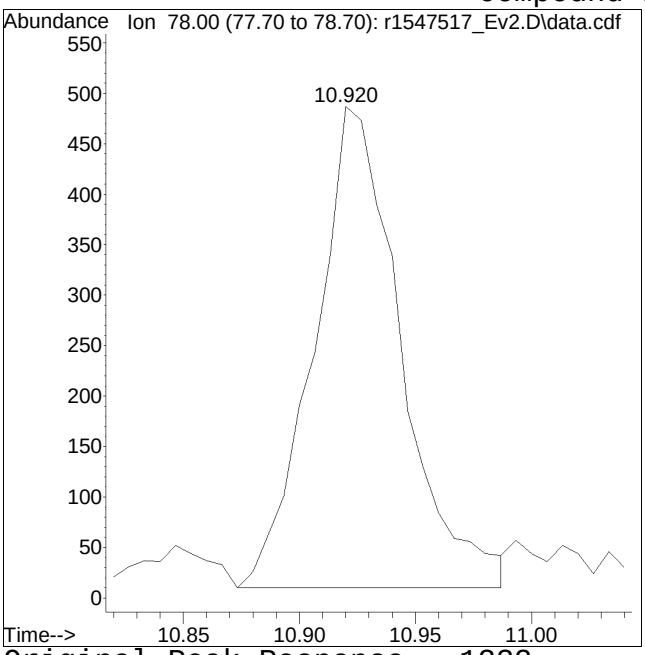
Manual Peak Response = 356 M4

M4 = Poor automated baseline construction.

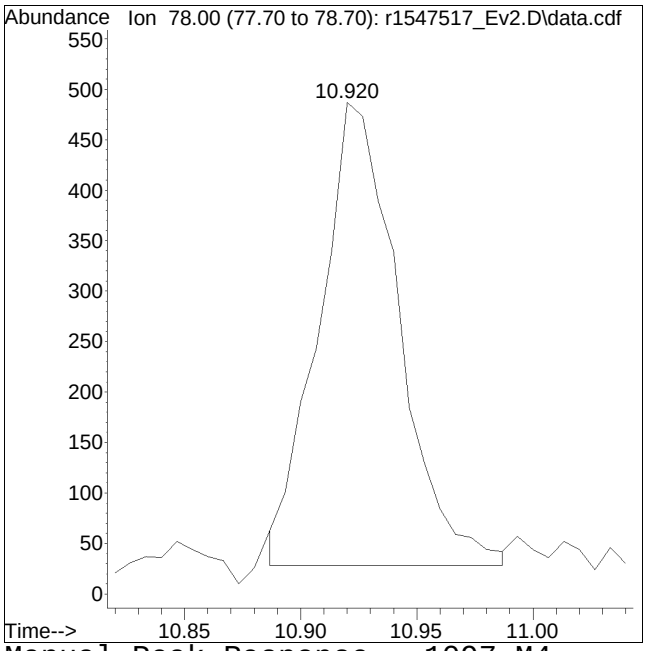
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1547517_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 4/26/2020 0:8: 1 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 4/27/2024 9:00 am

Compound #37: benzene



Original Peak Response = 1232



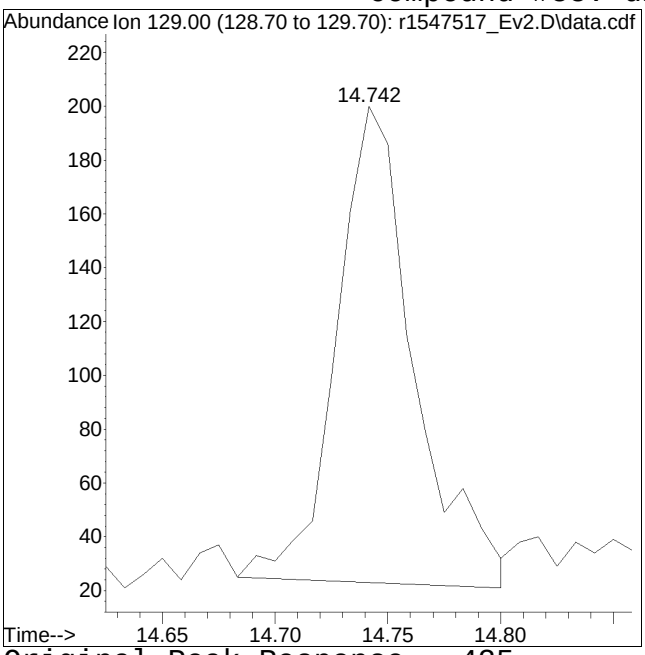
Manual Peak Response = 1097 M4

M4 = Poor automated baseline construction.

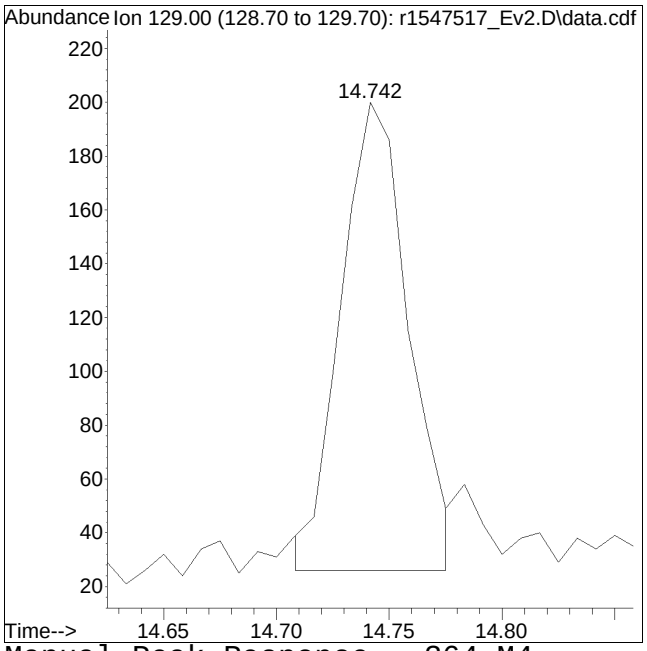
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1547517_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 4/26/2020 0:8: 1 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 4/27/2024 9:00 am

Compound #55: dibromochloromethane



Original Peak Response = 425



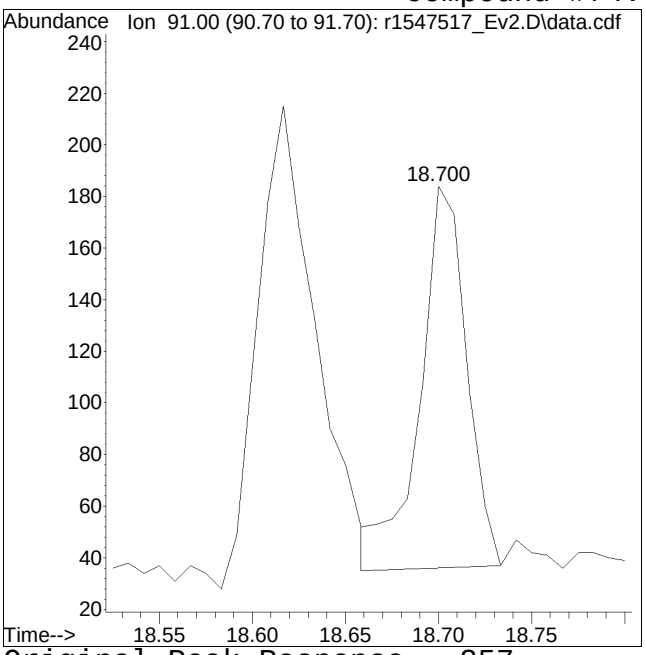
Manual Peak Response = 364 M4

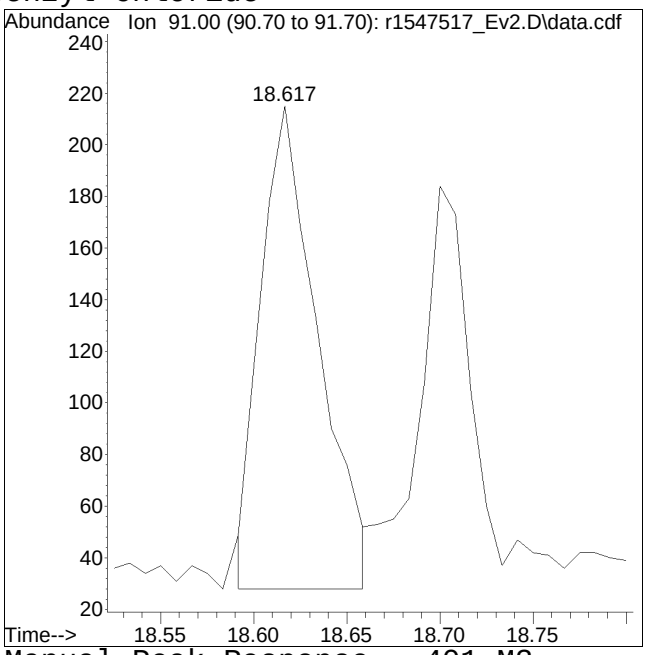
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1547517_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 4/26/2020 0:8: 1 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 4/27/2024 9:00 am

Compound #74: Benzyl Chloride





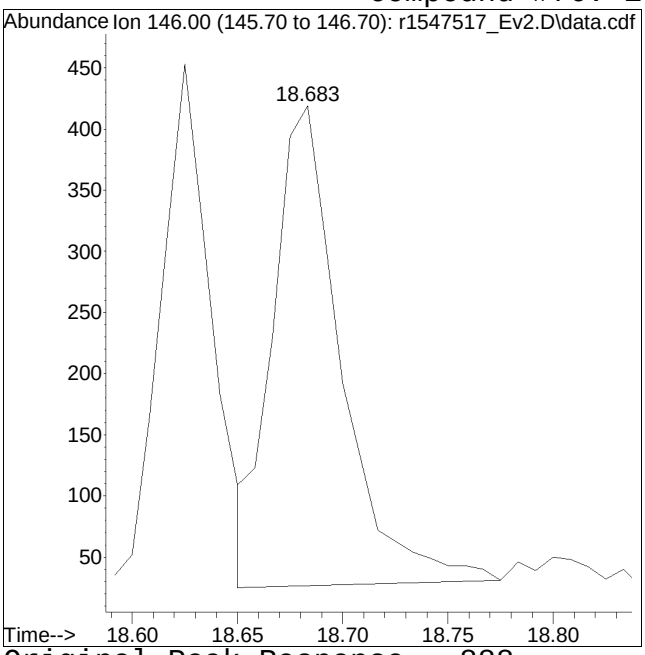
Original Peak Response = 257 Manual Peak Response = 401 M3

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.

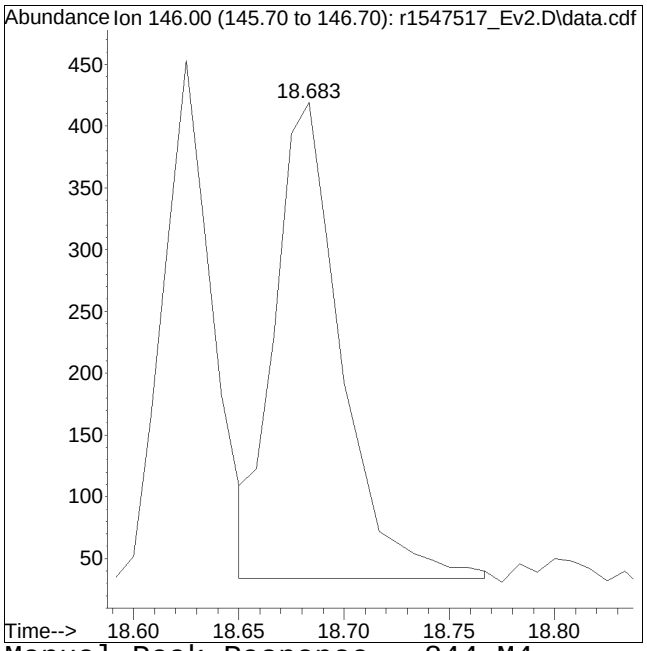
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1547517_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 4/26/2020 0:8: 1 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 4/27/2024 9:00 am

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 888



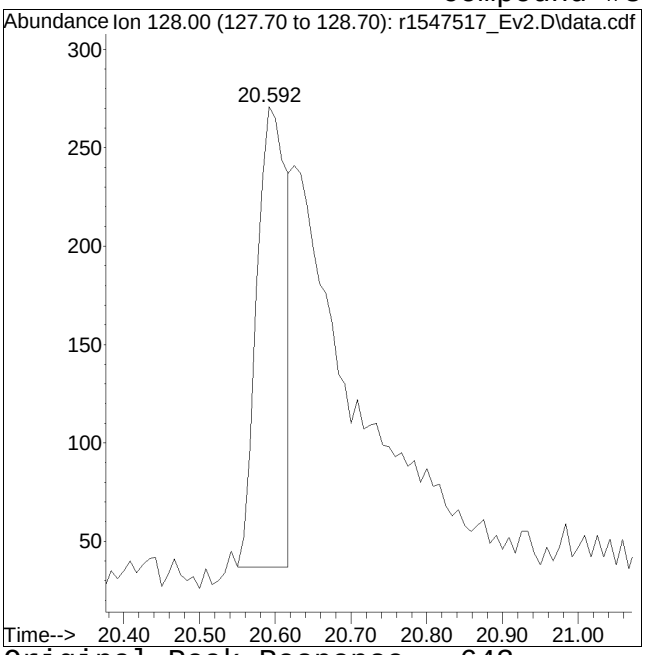
Manual Peak Response = 844 M4

M4 = Poor automated baseline construction.

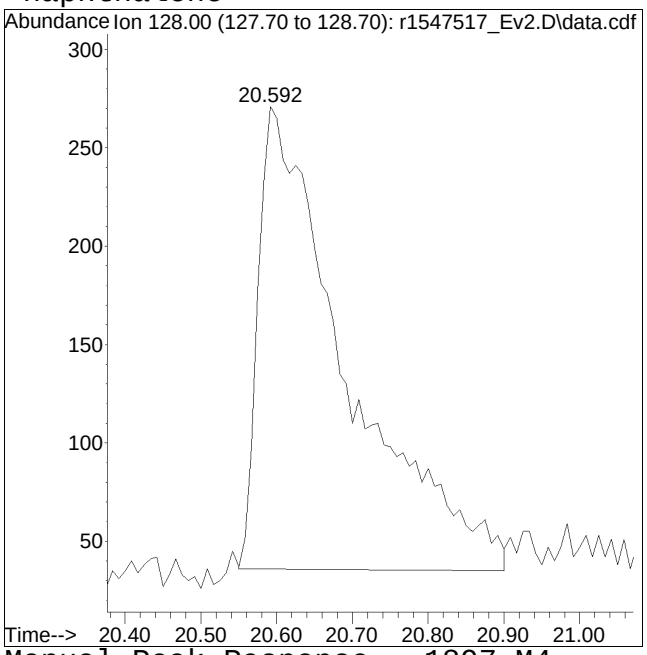
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1547517_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 4/26/2020 0:8: 1 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 4/27/2024 9:00 am

Compound #83: naphthalene



Original Peak Response = 643



Manual Peak Response = 1897 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547518_Ev2.D
Acq On : 26 Apr 2024 9:10 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD0.05
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 09:00:07 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:59:33 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\r1547523_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.108	49	194216	10.000	ppbV	0.00
Standard Area = 201665			Recovery = 96.31%			
33) 1,4-difluorobenzene	11.347	114	604539	10.000	ppbV	0.00
Standard Area = 630510			Recovery = 95.88%			
51) chlorobenzene-D5	16.042	54	97052	10.000	ppbV	0.00
Standard Area = 101854			Recovery = 95.29%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.992	65	118	0.009	ppbV	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.09%#			
53) toluene-D8	14.192	98	837	0.017	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.17%#			
67) bromofluorobenzene	17.417	95	951	0.027	ppbV	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.27%#			
Target Compounds						Qvalue
2) propylene	3.916	41	3758M6	0.304	ppbV	
3) dichlorodifluoromethane	3.988	85	1454	0.082	ppbV	95
4) chloromethane	4.156	50	563M4	0.056	ppbV	
5) Freon-114	4.258	85	1044	0.051	ppbV	96
6) vinyl chloride	4.384	62	538	0.053	ppbV	93
7) 1,3-butadiene	4.534	54	293M4	0.034	ppbV	
8) bromomethane	4.816	94	494	0.064	ppbV	98
9) chloroethane	5.002	64	357	0.073	ppbV #	63
10) ethanol	5.158	31	2195	0.247	ppbV	99
11) vinyl bromide	5.393	106	447	0.060	ppbV	86
12) acrolein	5.523	56	215M4	0.047	ppbV	
13) acetone	5.680	43	4745	0.419	ppbV #	98
14) trichlorofluoromethane	5.850	101	1006	0.085	ppbV	98
15) isopropyl alcohol	5.977	45	2787	0.174	ppbV #	93
16) acrylonitrile	6.197	53	220M4	0.027	ppbV	
17) 1,1-dichloroethene	6.546	61	781	0.053	ppbV #	81
18) tertiary butyl alcohol	6.660	59	1219	0.062	ppbV #	78
19) methylene chloride	6.690	49	4865	0.319	ppbV	97
20) 3-chloropropene	6.822	41	795	0.048	ppbV #	87
21) carbon disulfide	6.996	76	1827	0.060	ppbV #	1
22) Freon 113	6.996	101	1539	0.081	ppbV	98
23) trans-1,2-dichloroethene	7.742	61	1076	0.073	ppbV	97
24) 1,1-dichloroethane	7.967	63	1295	0.068	ppbV	96

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547518_Ev2.D
Acq On : 26 Apr 2024 9:10 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD0.05
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 09:00:07 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:59:33 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\r1547523_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	8.075	73	1407	0.053	ppbV	#	87
26) vinyl acetate	8.175	43	1150M4	0.046	ppbV		
27) 2-butanone	8.458	43	1465	0.055	ppbV	#	94
28) cis-1,2-dichloroethene	8.925	61	874	0.062	ppbV		95
29) Ethyl Acetate	9.225	61	237	0.058	ppbV	#	34
30) chloroform	9.267	83	1170	0.063	ppbV	#	88
31) Tetrahydrofuran	9.750	42	757	0.047	ppbV		90
32) 1,2-dichloroethane	10.108	62	727	0.069	ppbV	#	84
34) hexane	9.175	57	1654	0.060	ppbV	#	32
36) 1,1,1-trichloroethane	10.392	97	1047	0.057	ppbV	#	93
37) benzene	10.920	78	2704	0.049	ppbV		94
38) carbon tetrachloride	11.100	117	893	0.054	ppbV	#	92
39) cyclohexane	11.240	56	1387	0.046	ppbV	#	93
40) Dibromomethane	11.847	93	643M4	0.046	ppbV		
41) 1,2-dichloropropane	11.880	63	923	0.051	ppbV	#	81
42) bromodichloromethane	12.100	83	957M4	0.042	ppbV		
43) 1,4-dioxane	12.187	88	385	0.036	ppbV	#	44
44) trichloroethene	12.147	130	1054	0.058	ppbV		96
45) 2,2,4-trimethylpentane	12.200	57	4367	0.047	ppbV	#	94
46) heptane	12.513	43	1408	0.038	ppbV	#	97
47) cis-1,3-dichloropropene	13.167	75	814	0.034	ppbV	#	74
48) 4-methyl-2-pentanone	13.242	43	1101	0.026	ppbV	#	93
49) trans-1,3-dichloropropene	13.808	75	520	0.029	ppbV	#	77
50) 1,1,2-trichloroethane	13.992	97	919	0.052	ppbV		97
52) toluene	14.300	91	2962	0.054	ppbV		98
54) 2-hexanone	14.650	43	384	0.011	ppbV	#	89
55) dibromochloromethane	14.742	129	933	0.050	ppbV	#	94
56) 1,2-dibromoethane	14.992	107	1145	0.046	ppbV		91
57) tetrachloroethene	15.442	166	1085	0.056	ppbV		94
58) 1,1,1,2-tetrachloroethane	16.067	131	935	0.055	ppbV	#	90
59) chlorobenzene	16.083	112	2218	0.049	ppbV		94
60) ethylbenzene	16.433	91	3538	0.048	ppbV		100
61) m+p-xylene	16.600	91	5292	0.093	ppbV		99
62) bromoform	16.667	173	749	0.052	ppbV		98
63) styrene	16.925	104	1618	0.036	ppbV		96
64) 1,1,2,2-tetrachloroethane	17.017	83	2069	0.050	ppbV		97
65) o-xylene	17.008	91	2835	0.048	ppbV		93
66) 1,2,3-Trichloropropane	17.125	75	1318	0.040	ppbV	#	93
68) isopropylbenzene	17.525	105	3241	0.043	ppbV		97
69) Bromobenzene	17.600	77	1855	0.043	ppbV		99

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547518_Ev2.D
Acq On : 26 Apr 2024 9:10 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD0.05
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 09:00:07 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:59:33 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\r1547523_Ev2.D
Sub List : Default - All compounds listed

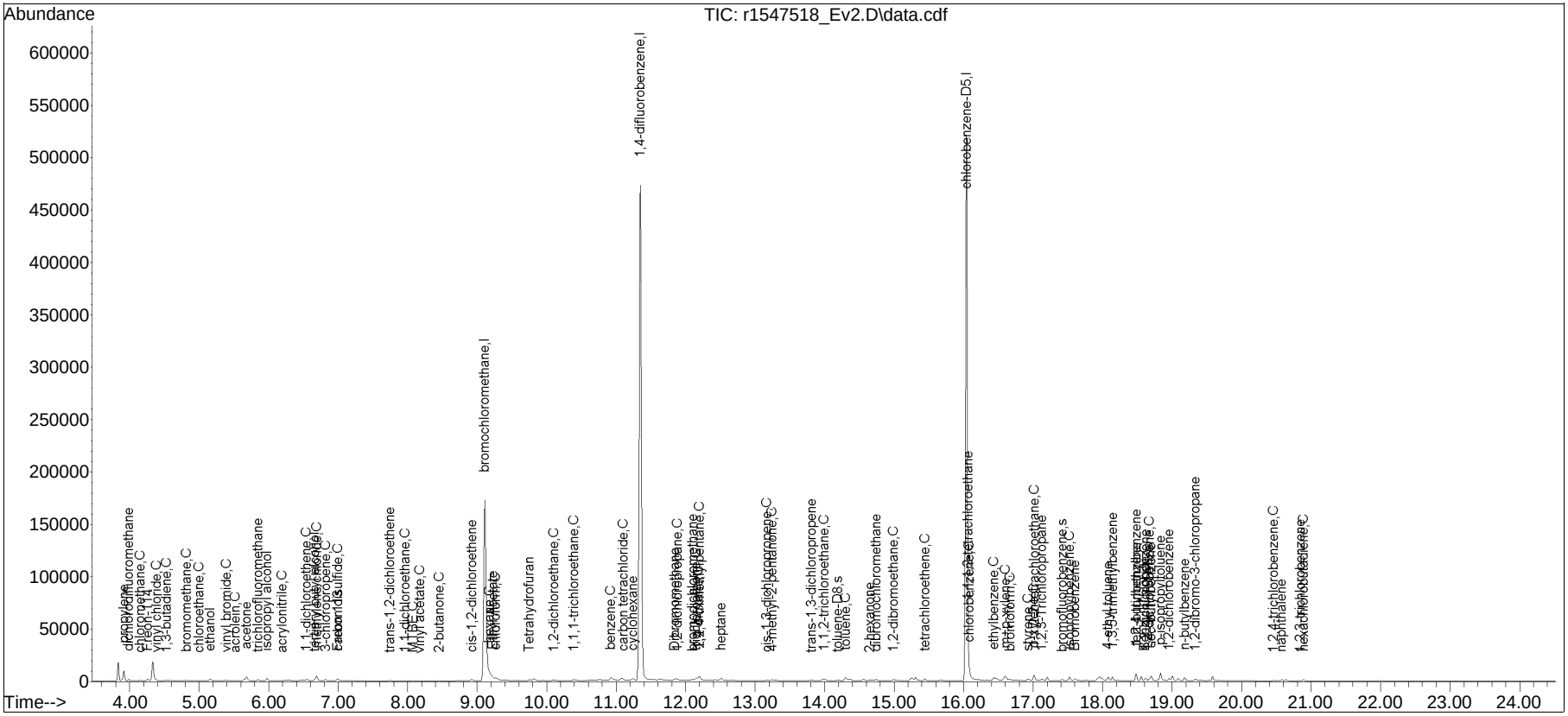
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4-ethyl toluene	18.075	105	3203	0.042	ppbV	#	97
71) 1,3,5-trimethylbenzene	18.142	105	2671	0.035	ppbV	#	98
72) tert-butylbenzene	18.483	119	3035	0.046	ppbV		98
73) 1,2,4-trimethylbenzene	18.483	105	2691	0.041	ppbV		92
74) Benzyl Chloride	18.608	91	1003	0.028	ppbV		98
75) 1,3-dichlorobenzene	18.617	146	2003M3	0.048	ppbV		
76) 1,4-dichlorobenzene	18.675	146	1981M4	0.047	ppbV		
77) sec-butylbenzene	18.700	105	4122	0.042	ppbV		97
78) p-isopropyltoluene	18.833	119	3499	0.048	ppbV		94
79) 1,2-dichlorobenzene	18.958	146	2076	0.052	ppbV	#	88
80) n-butylbenzene	19.183	91	3310	0.045	ppbV		96
81) 1,2-dibromo-3-chloropr...	19.333	75	571	0.040	ppbV	#	92
82) 1,2,4-trichlorobenzene	20.458	180	1237	0.049	ppbV	#	92
83) naphthalene	20.575	128	2906	0.031	ppbV	#	95
84) 1,2,3-trichlorobenzene	20.842	180	1162	0.050	ppbV	#	90
85) hexachlorobutadiene	20.892	225	1242	0.055	ppbV	#	93

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

Sub List : Default - All compounds listed4\04\0426SIM_I\r1547523_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547518_Ev2.D
Acq On : 26 Apr 2024 9:10 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD0.05
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

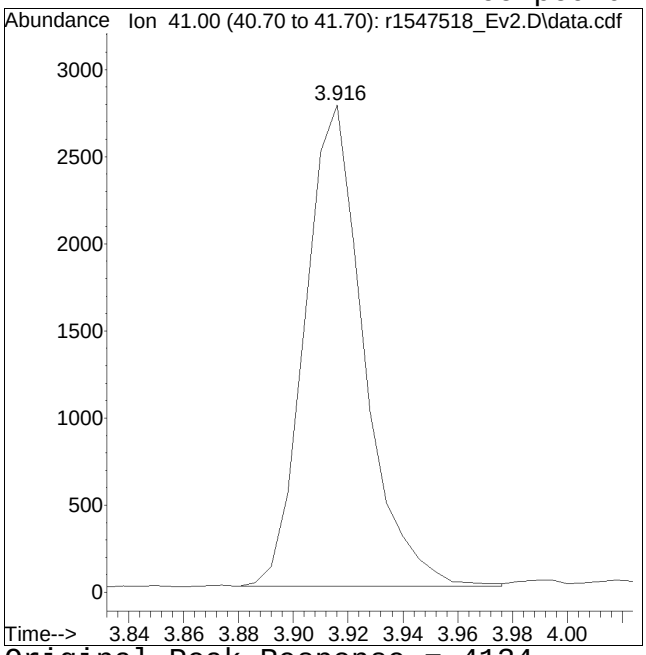
Quant Time: Apr 27 09:00:07 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:59:33 2024
Response via : Initial Calibration



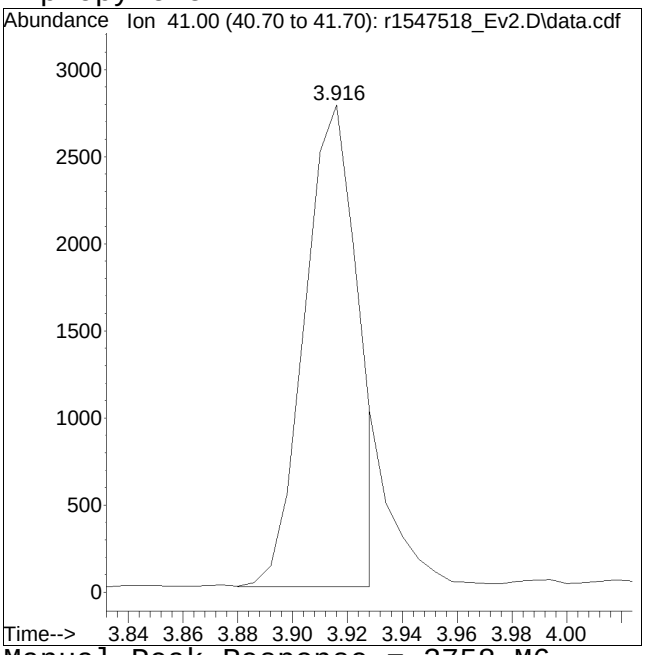
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1547518_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 4/26/2020 0:9: 0 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 4/27/2024 9:00 am

Compound #2: propylene



Original Peak Response = 4134



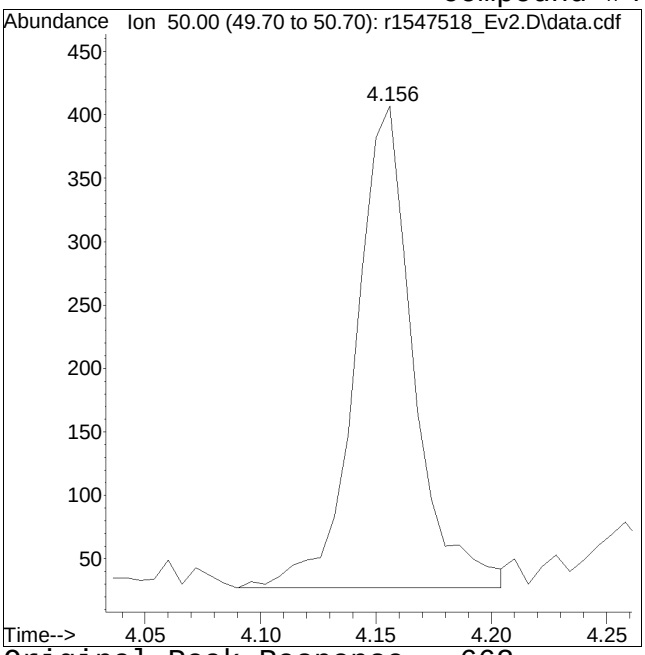
Manual Peak Response = 3758 M6

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

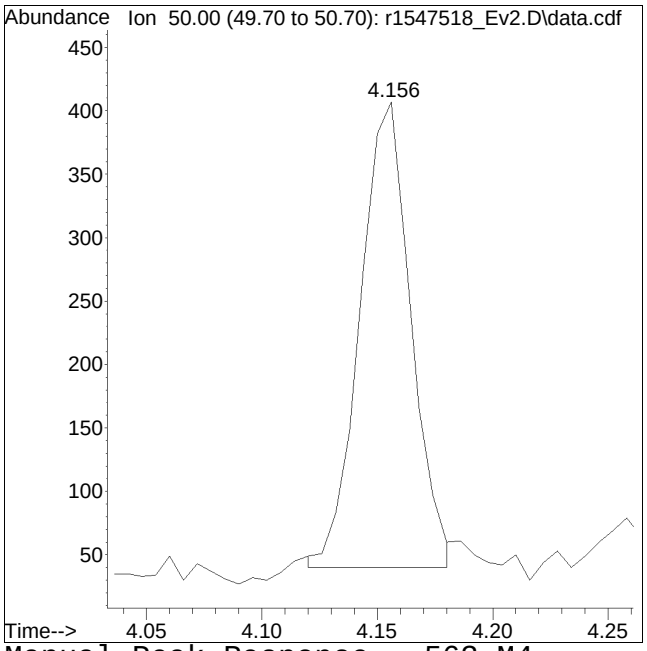
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1547518_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 4/26/2020 0:9: 0 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 4/27/2024 9:00 am

Compound #4: chloromethane



Original Peak Response = 662



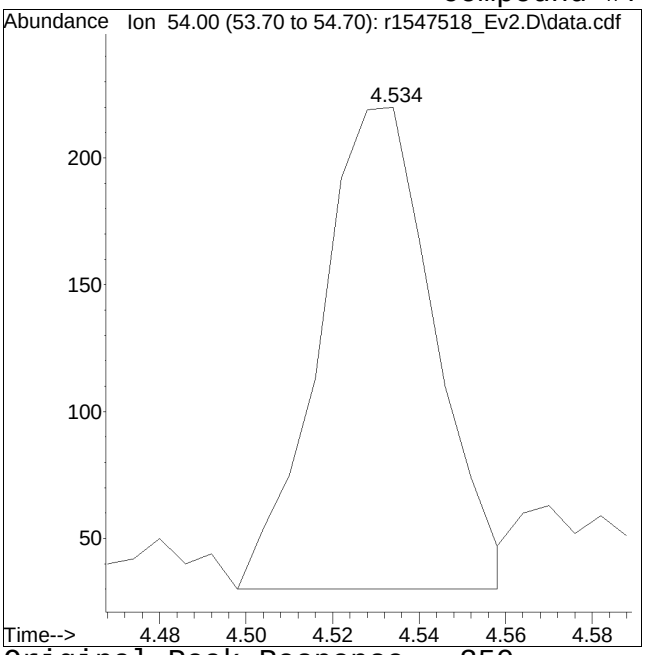
Manual Peak Response = 563 M4

M4 = Poor automated baseline construction.

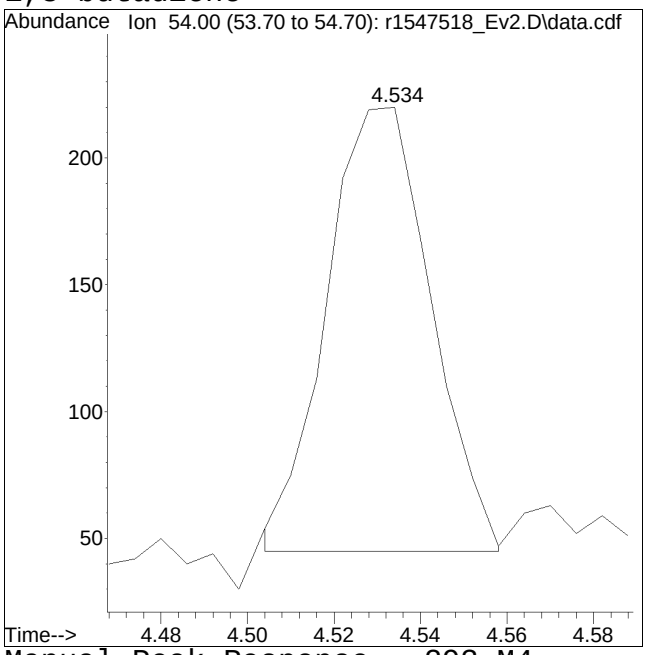
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1547518_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 4/26/2020 0:9: 0 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 4/27/2024 9:00 am

Compound #7: 1,3-butadiene



Original Peak Response = 350



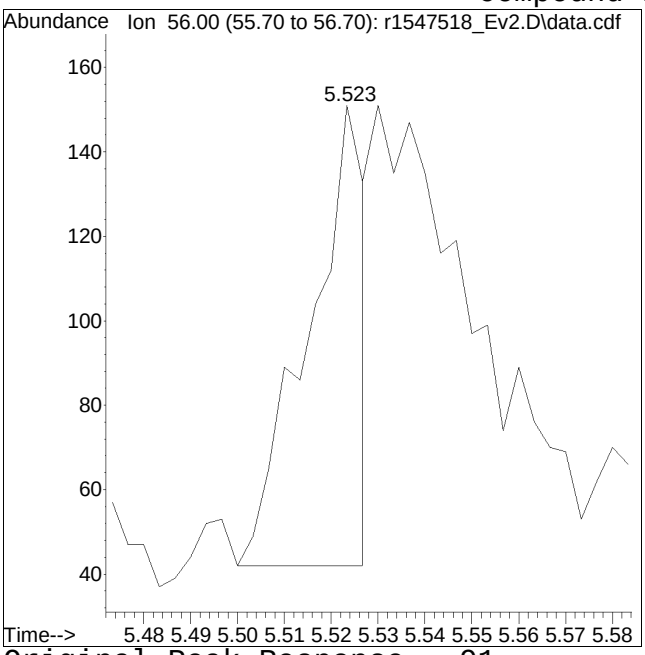
Manual Peak Response = 293 M4

M4 = Poor automated baseline construction.

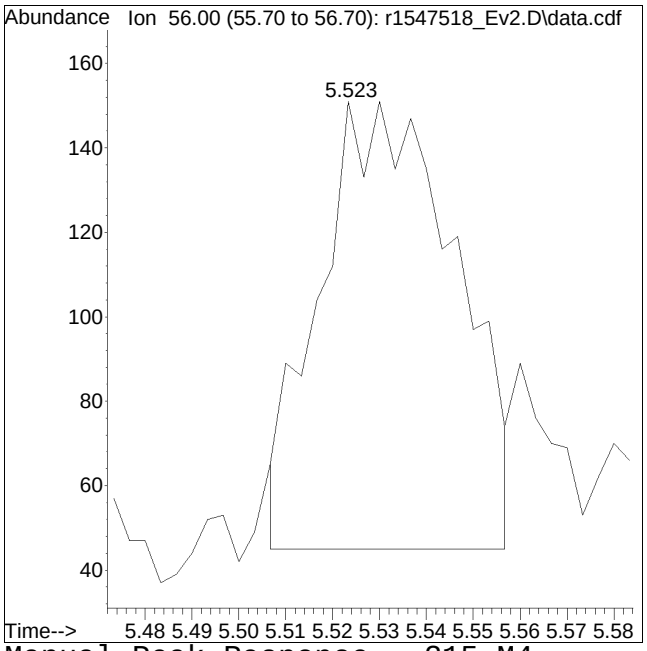
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1547518_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 4/26/2020 0:9: 0 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 4/27/2024 9:00 am

Compound #12: acrolein



Original Peak Response = 91



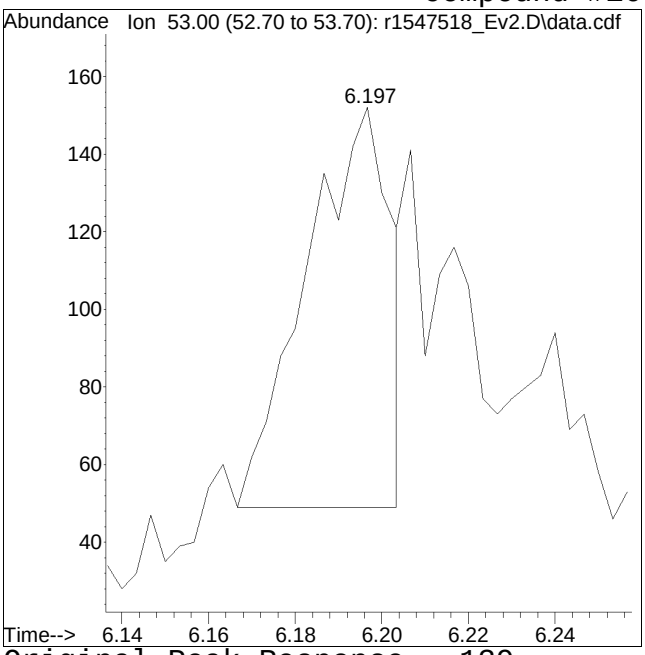
Manual Peak Response = 215 M4

M4 = Poor automated baseline construction.

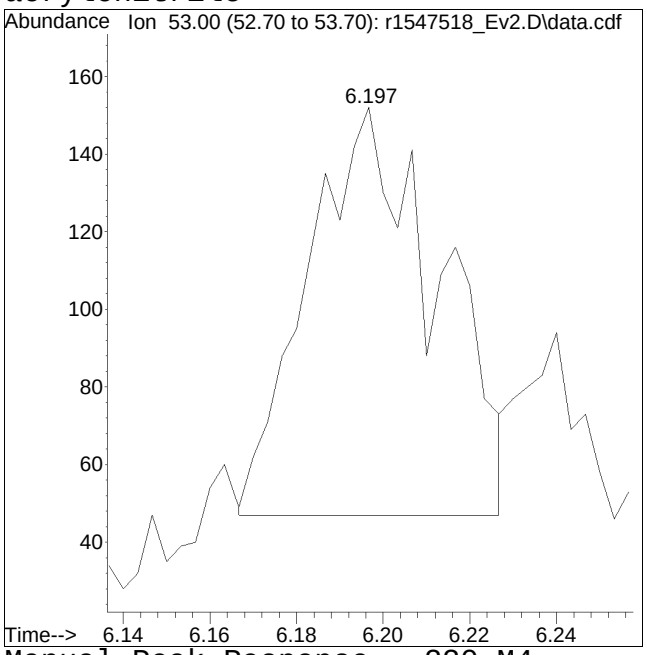
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1547518_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 4/26/2020 0:9: 0 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 4/27/2024 9:00 am

Compound #16: acrylonitrile



Original Peak Response = 139



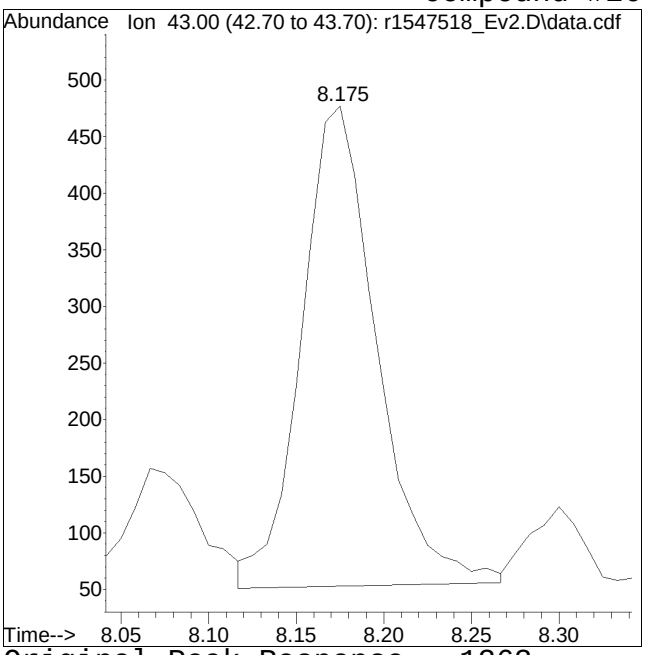
Manual Peak Response = 220 M4

M4 = Poor automated baseline construction.

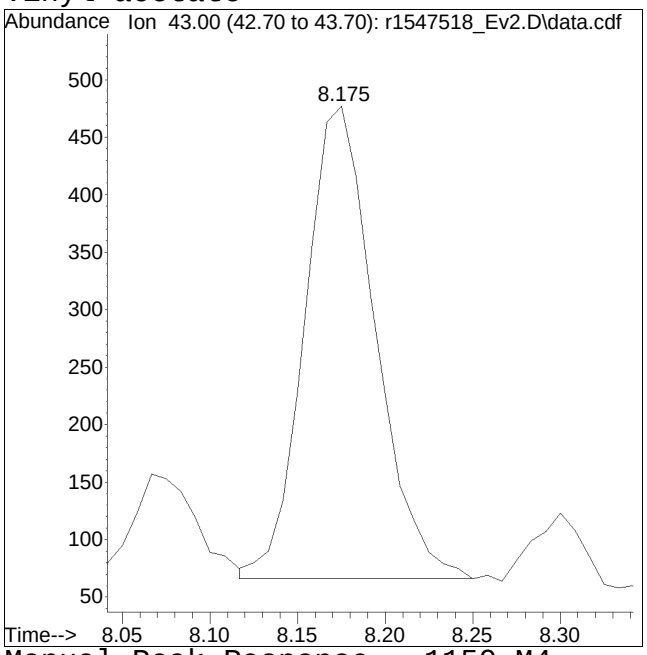
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1547518_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 4/26/2020 0:9: 0 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 4/27/2024 9:00 am

Compound #26: vinyl acetate



Original Peak Response = 1263



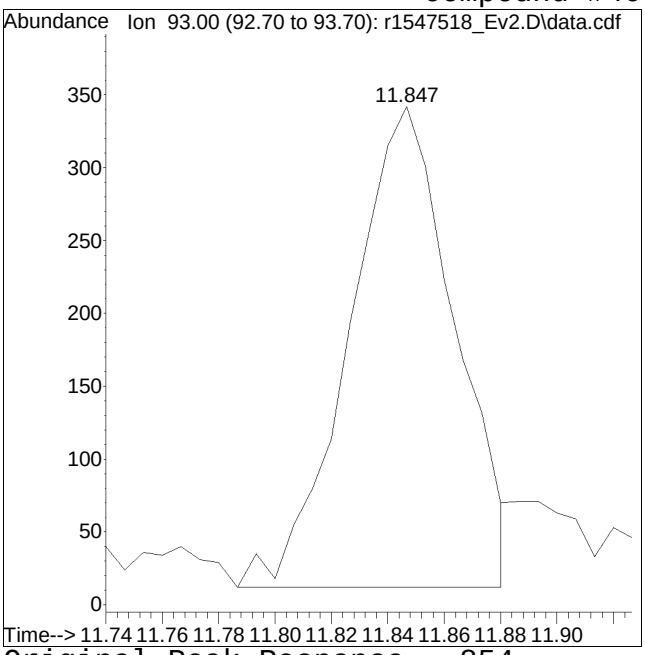
Manual Peak Response = 1150 M4

M4 = Poor automated baseline construction.

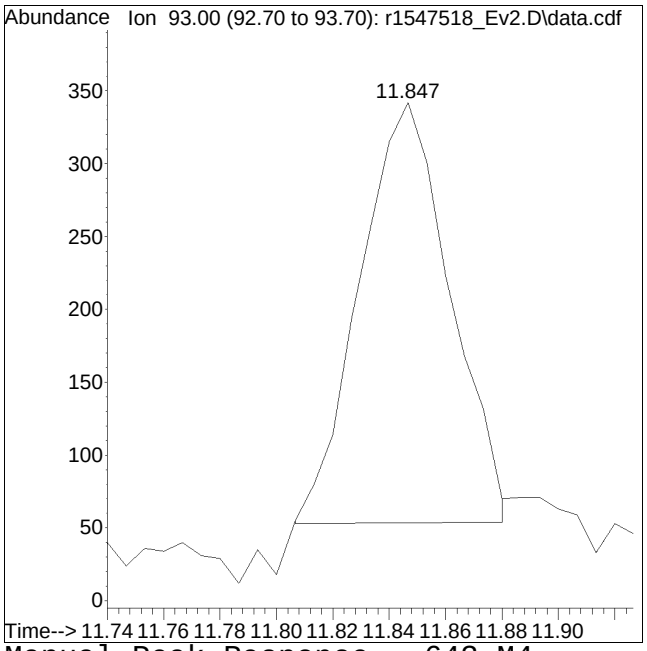
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1547518_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 4/26/2020 0:9: 0 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 4/27/2024 9:00 am

Compound #40: Dibromomethane



Original Peak Response = 854



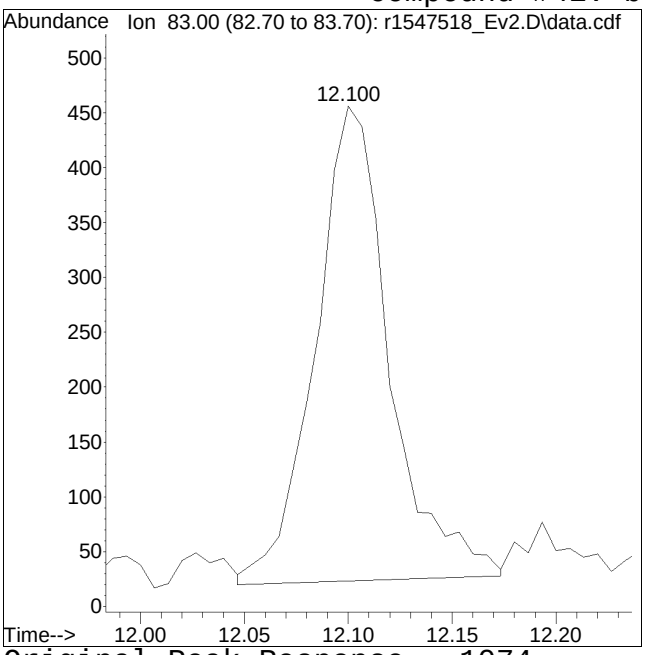
Manual Peak Response = 643 M4

M4 = Poor automated baseline construction.

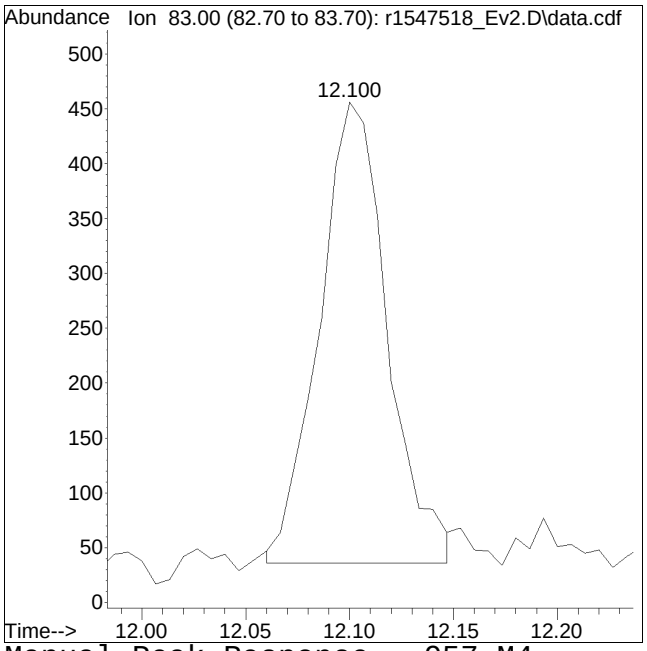
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1547518_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 4/26/2020 0:9: 0 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 4/27/2024 9:00 am

Compound #42: bromodichloromethane



Original Peak Response = 1074



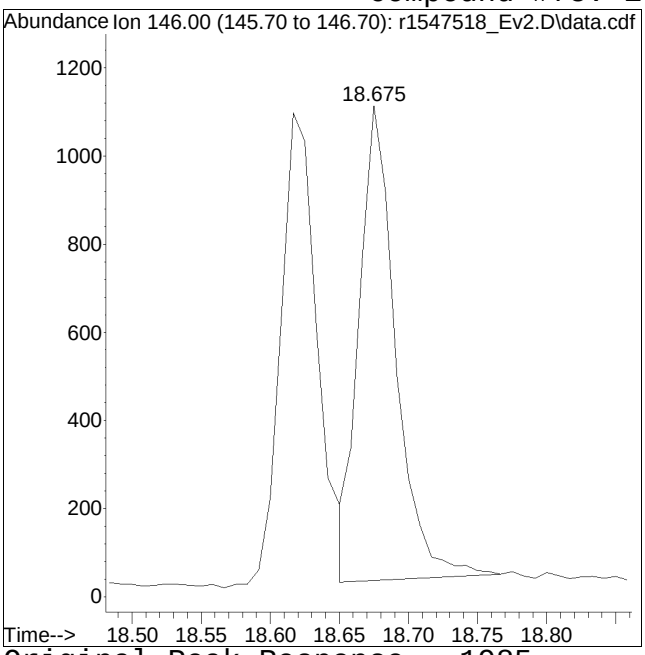
Manual Peak Response = 957 M4

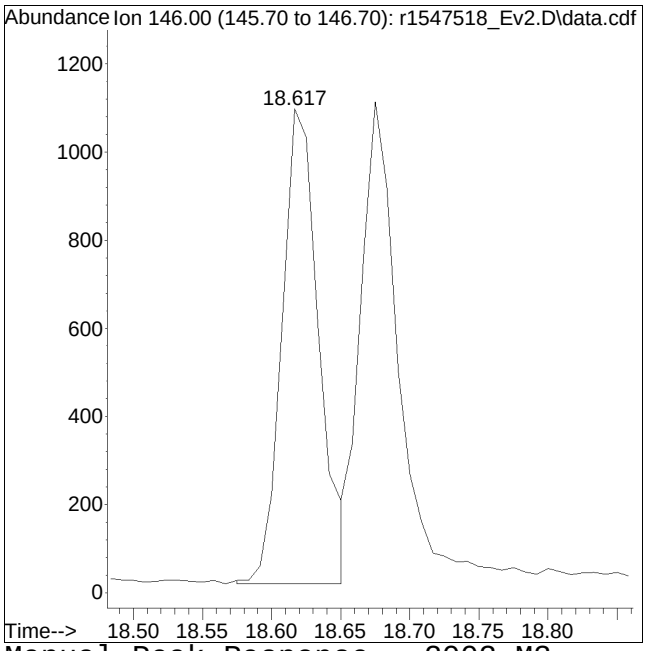
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1547518_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 4/26/2020 0:9: 0 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 4/27/2024 9:00 am

Compound #75: 1,3-dichlorobenzene





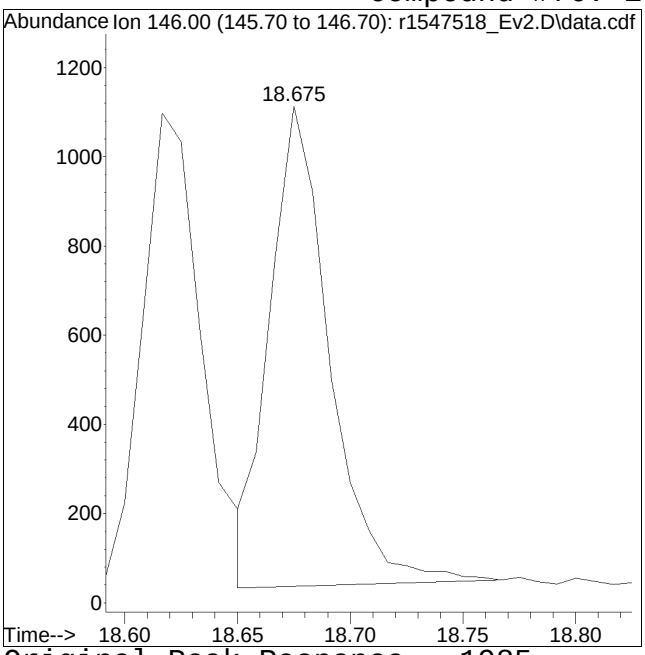
Original Peak Response = 1985 Manual Peak Response = 2003 M3

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.

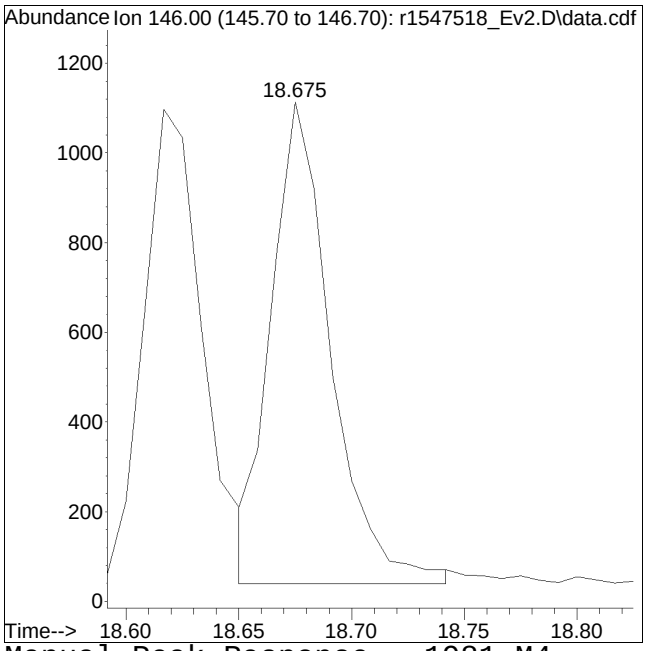
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1547518_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 4/26/2020 0:9: 0 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 4/27/2024 9:00 am

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 1985



Manual Peak Response = 1981 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547519_Ev2.D
Acq On : 26 Apr 2024 9:51 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD0.1
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 09:00:11 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:59:33 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\r1547523_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.108	49	197158	10.000	ppbV	0.00
Standard Area = 201665			Recovery = 97.77%			
33) 1,4-difluorobenzene	11.353	114	614476	10.000	ppbV	0.00
Standard Area = 630510			Recovery = 97.46%			
51) chlorobenzene-D5	16.042	54	99180	10.000	ppbV	0.00
Standard Area = 101854			Recovery = 97.37%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.992	65	257	0.020	ppbV	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.20%#			
53) toluene-D8	14.192	98	1218	0.024	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.24%#			
67) bromofluorobenzene	17.408	95	1125	0.031	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.31%#			
Target Compounds						Qvalue
2) propylene	3.916	41	4509M6	0.359	ppbV	
3) dichlorodifluoromethane	3.994	85	3045	0.169	ppbV	100
4) chloromethane	4.156	50	1163	0.113	ppbV	94
5) Freon-114	4.264	85	2175	0.106	ppbV	97
6) vinyl chloride	4.384	62	1218	0.117	ppbV	95
7) 1,3-butadiene	4.534	54	629	0.071	ppbV	88
8) bromomethane	4.816	94	1008	0.129	ppbV	97
9) chloroethane	5.008	64	667	0.135	ppbV #	92
10) ethanol	5.164	31	4369	0.484	ppbV	93
11) vinyl bromide	5.390	106	965	0.129	ppbV	97
12) acrolein	5.527	56	399M4	0.086	ppbV	
13) acetone	5.677	43	9897	0.861	ppbV #	98
14) trichlorofluoromethane	5.850	101	2110	0.176	ppbV	95
15) isopropyl alcohol	5.977	45	4947	0.304	ppbV #	96
16) acrylonitrile	6.193	53	574M4	0.069	ppbV	
17) 1,1-dichloroethene	6.552	61	2023	0.136	ppbV	95
18) tertiary butyl alcohol	6.666	59	2468	0.124	ppbV #	90
19) methylene chloride	6.696	49	9482	0.613	ppbV	98
20) 3-chloropropene	6.822	41	1515	0.091	ppbV	94
21) carbon disulfide	7.002	76	3392	0.110	ppbV #	36
22) Freon 113	6.996	101	2843	0.148	ppbV	98
23) trans-1,2-dichloroethene	7.750	61	2067	0.138	ppbV	98
24) 1,1-dichloroethane	7.975	63	2622	0.136	ppbV	95

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547519_Ev2.D
Acq On : 26 Apr 2024 9:51 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD0.1
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 09:00:11 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:59:33 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\r1547523_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	8.075	73	2825	0.104	ppbV	#	92
26) vinyl acetate	8.175	43	2529	0.100	ppbV	#	88
27) 2-butanone	8.458	43	3062	0.114	ppbV	#	96
28) cis-1,2-dichloroethene	8.925	61	1980	0.139	ppbV		99
29) Ethyl Acetate	9.233	61	460	0.111	ppbV	#	28
30) chloroform	9.267	83	2228	0.117	ppbV	#	96
31) Tetrahydrofuran	9.750	42	1557M6	0.094	ppbV		
32) 1,2-dichloroethane	10.108	62	1441	0.135	ppbV	#	88
34) hexane	9.175	57	3147	0.113	ppbV	#	34
36) 1,1,1-trichloroethane	10.400	97	2020	0.109	ppbV	#	94
37) benzene	10.927	78	5124	0.092	ppbV		97
38) carbon tetrachloride	11.093	117	1737	0.102	ppbV	#	95
39) cyclohexane	11.247	56	2755	0.090	ppbV		96
40) Dibromomethane	11.840	93	1572	0.111	ppbV	#	98
41) 1,2-dichloropropane	11.873	63	1872	0.101	ppbV	#	92
42) bromodichloromethane	12.100	83	2155	0.093	ppbV		99
43) 1,4-dioxane	12.187	88	939	0.087	ppbV		83
44) trichloroethene	12.153	130	1926	0.103	ppbV		94
45) 2,2,4-trimethylpentane	12.193	57	8695	0.093	ppbV		99
46) heptane	12.513	43	2776	0.074	ppbV		98
47) cis-1,3-dichloropropene	13.175	75	1748	0.073	ppbV		89
48) 4-methyl-2-pentanone	13.233	43	2385	0.055	ppbV		98
49) trans-1,3-dichloropropene	13.808	75	980	0.055	ppbV	#	83
50) 1,1,2-trichloroethane	13.992	97	1882	0.105	ppbV		98
52) toluene	14.300	91	6107	0.108	ppbV		99
54) 2-hexanone	14.625	43	1450	0.040	ppbV	#	91
55) dibromochloromethane	14.742	129	2073	0.110	ppbV	#	95
56) 1,2-dibromoethane	14.992	107	2260	0.090	ppbV		99
57) tetrachloroethene	15.442	166	2224	0.113	ppbV		98
58) 1,1,1,2-tetrachloroethane	16.067	131	1900	0.110	ppbV	#	95
59) chlorobenzene	16.083	112	4426	0.096	ppbV		97
60) ethylbenzene	16.433	91	7418	0.099	ppbV		97
61) m+p-xylene	16.600	91	11311	0.194	ppbV		98
62) bromoform	16.667	173	1562	0.106	ppbV		97
63) styrene	16.925	104	3479	0.076	ppbV		100
64) 1,1,2,2-tetrachloroethane	17.008	83	4108	0.096	ppbV		99
65) o-xylene	17.008	91	5883	0.098	ppbV		96
66) 1,2,3-Trichloropropane	17.125	75	2876	0.085	ppbV		95
68) isopropylbenzene	17.517	105	6741	0.087	ppbV		99
69) Bromobenzene	17.600	77	3727	0.084	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547519_Ev2.D
Acq On : 26 Apr 2024 9:51 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD0.1
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 09:00:11 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:59:33 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\r1547523_Ev2.D
Sub List : Default - All compounds listed

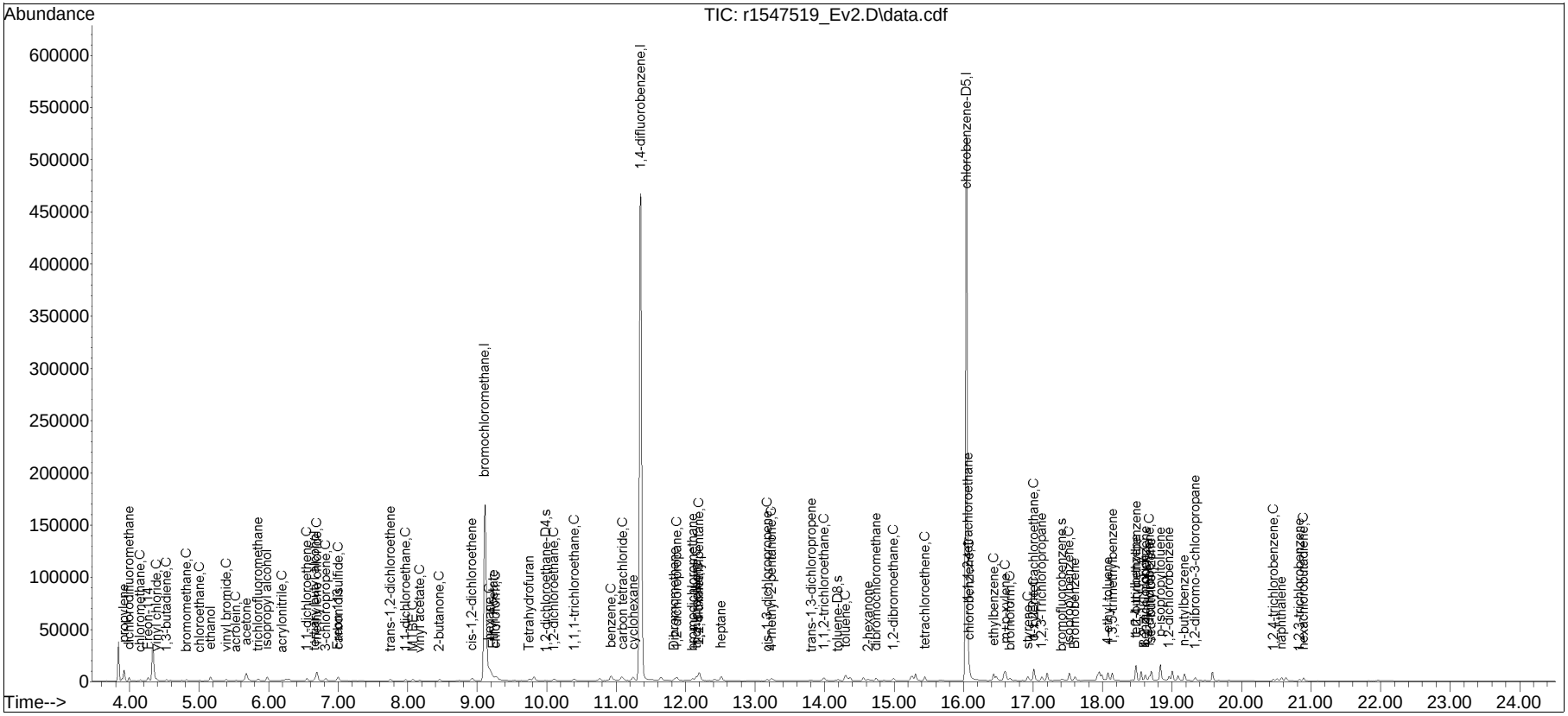
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4-ethyl toluene	18.075	105	6540	0.084	ppbV	#	96
71) 1,3,5-trimethylbenzene	18.142	105	5400	0.068	ppbV	#	98
72) tert-butylbenzene	18.475	119	6514	0.096	ppbV		100
73) 1,2,4-trimethylbenzene	18.483	105	5734	0.085	ppbV		95
74) Benzyl Chloride	18.608	91	2241	0.062	ppbV		94
75) 1,3-dichlorobenzene	18.617	146	4216	0.098	ppbV		97
76) 1,4-dichlorobenzene	18.675	146	3975	0.093	ppbV		97
77) sec-butylbenzene	18.700	105	8750	0.088	ppbV		96
78) p-isopropyltoluene	18.833	119	7580	0.101	ppbV		98
79) 1,2-dichlorobenzene	18.958	146	4066	0.099	ppbV		95
80) n-butylbenzene	19.175	91	7094	0.095	ppbV		98
81) 1,2-dibromo-3-chloropr...	19.333	75	1174	0.081	ppbV		91
82) 1,2,4-trichlorobenzene	20.458	180	2279	0.088	ppbV		94
83) naphthalene	20.575	128	6512	0.068	ppbV	#	96
84) 1,2,3-trichlorobenzene	20.833	180	2298	0.097	ppbV		94
85) hexachlorobutadiene	20.892	225	2687	0.117	ppbV	#	95

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

Sub List : Default - All compounds listed4\04\0426SIM_I\r1547523_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547519_Ev2.D
Acq On : 26 Apr 2024 9:51 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD0.1
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

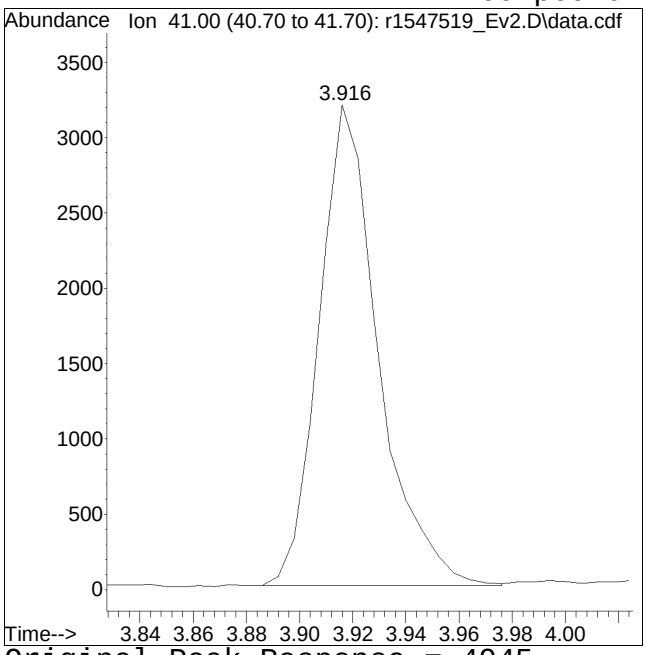
Quant Time: Apr 27 09:00:11 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:59:33 2024
Response via : Initial Calibration



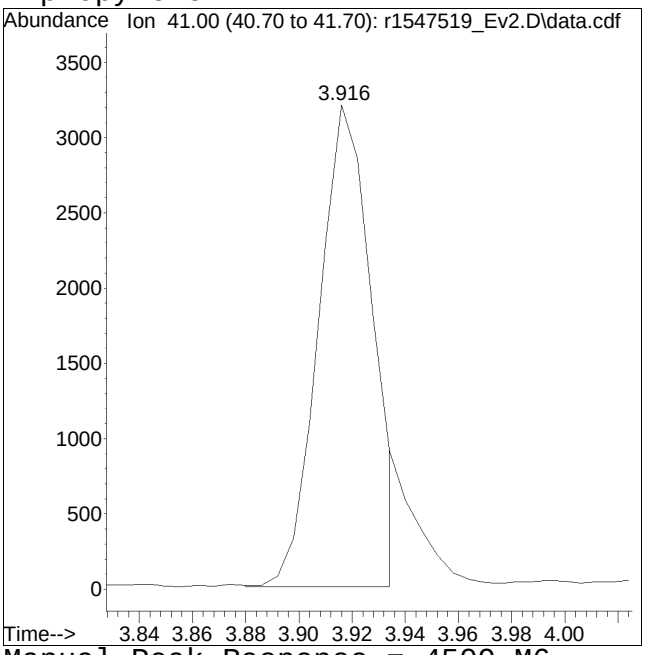
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1547519_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 4/26/2020 0:9: 1 Instrument :
Sample : ITO15-SIMSTD0.1 Quant Date : 4/27/2024 9:00 am

Compound #2: propylene



Original Peak Response = 4945



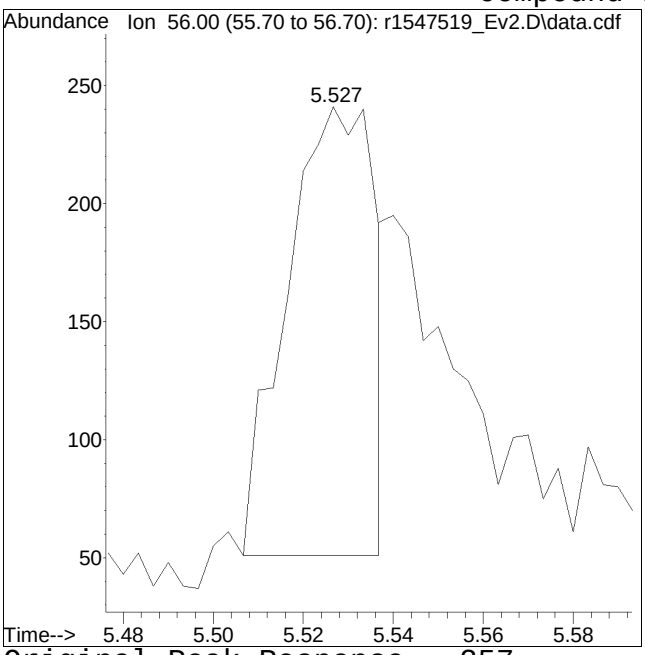
Manual Peak Response = 4509 M6

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

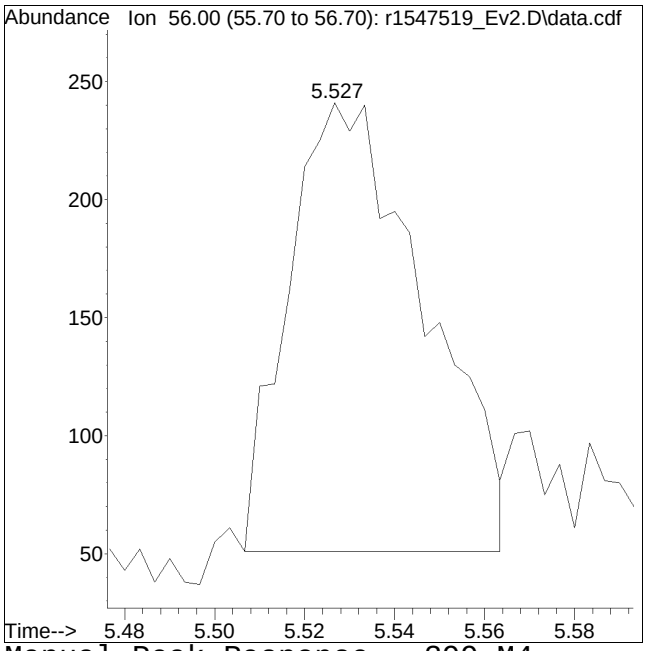
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1547519_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 4/26/2020 0:9: 1 Instrument :
Sample : ITO15-SIMSTD0.1 Quant Date : 4/27/2024 9:00 am

Compound #12: acrolein



Original Peak Response = 257



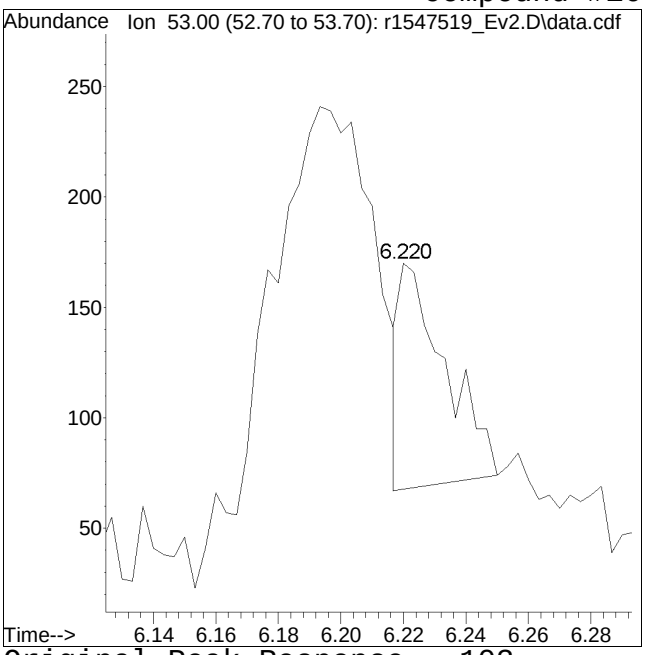
Manual Peak Response = 399 M4

M4 = Poor automated baseline construction.

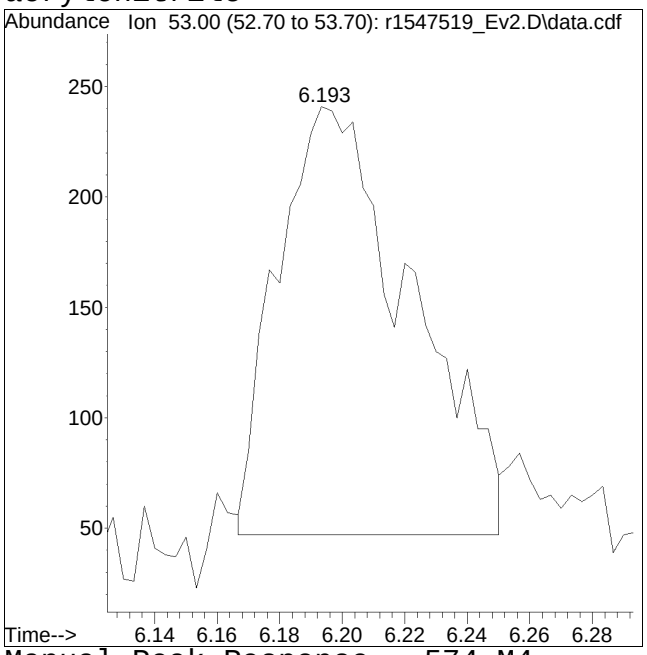
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1547519_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 4/26/2020 0:9: 1 Instrument :
Sample : ITO15-SIMSTD0.1 Quant Date : 4/27/2024 9:00 am

Compound #16: acrylonitrile



Original Peak Response = 103



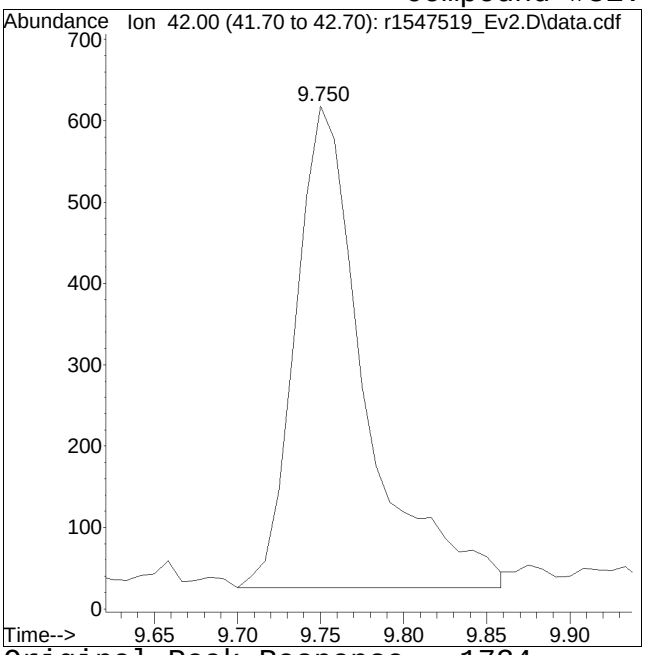
Manual Peak Response = 574 M4

M4 = Poor automated baseline construction.

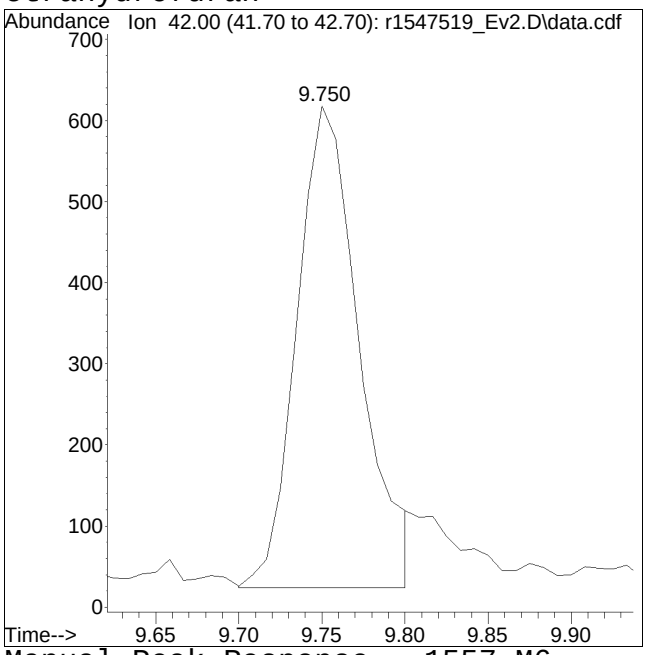
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1547519_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 4/26/2020 0:9: 1 Instrument :
Sample : ITO15-SIMSTD0.1 Quant Date : 4/27/2024 9:00 am

Compound #31: Tetrahydrofuran



Original Peak Response = 1734



Manual Peak Response = 1557 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547520_Ev2.D
Acq On : 26 Apr 2024 10:31 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD0.2
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 09:00:15 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:59:33 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\r1547523_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.108	49	198782	10.000	ppbV	0.00
Standard Area = 201665			Recovery = 98.57%			
33) 1,4-difluorobenzene	11.347	114	619566	10.000	ppbV	0.00
Standard Area = 630510			Recovery = 98.26%			
51) chlorobenzene-D5	16.033	54	100570	10.000	ppbV	0.00
Standard Area = 101854			Recovery = 98.74%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.975	65	143464	10.926	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.26%			
53) toluene-D8	14.183	98	546656	10.734	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.34%			
67) bromofluorobenzene	17.400	95	359812	9.814	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.14%			
Target Compounds						Qvalue
2) propylene	3.916	41	5113M6	0.404	ppbV	
3) dichlorodifluoromethane	3.988	85	4544	0.250	ppbV	99
4) chloromethane	4.156	50	1731	0.167	ppbV	97
5) Freon-114	4.264	85	4438	0.214	ppbV	98
6) vinyl chloride	4.384	62	2466	0.236	ppbV	96
7) 1,3-butadiene	4.528	54	1406	0.158	ppbV	91
8) bromomethane	4.816	94	1905	0.241	ppbV	99
9) chloroethane	5.008	64	1277	0.256	ppbV	94
10) ethanol	5.158	31	7370	0.810	ppbV	98
11) vinyl bromide	5.387	106	1942	0.257	ppbV	97
12) acrolein	5.530	56	798M4	0.171	ppbV	
13) acetone	5.677	43	12740	1.099	ppbV #	98
14) trichlorofluoromethane	5.847	101	3629	0.300	ppbV	92
15) isopropyl alcohol	5.977	45	7975	0.487	ppbV	99
16) acrylonitrile	6.190	53	1181M6	0.141	ppbV	
17) 1,1-dichloroethene	6.546	61	4218	0.281	ppbV	100
18) tertiary butyl alcohol	6.660	59	4719	0.236	ppbV	94
19) methylene chloride	6.690	49	3253	0.209	ppbV	99
20) 3-chloropropene	6.822	41	3370	0.200	ppbV	96
21) carbon disulfide	7.002	76	6973	0.223	ppbV #	70
22) Freon 113	6.996	101	5577	0.288	ppbV	100
23) trans-1,2-dichloroethene	7.750	61	4032	0.267	ppbV	95
24) 1,1-dichloroethane	7.967	63	5361	0.277	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547520_Ev2.D
Acq On : 26 Apr 2024 10:31 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD0.2
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 09:00:15 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:59:33 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\r1547523_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	8.067	73	5698	0.208	ppbV		95
26) vinyl acetate	8.167	43	4453	0.175	ppbV		98
27) 2-butanone	8.450	43	5029	0.186	ppbV		98
28) cis-1,2-dichloroethene	8.925	61	4051	0.281	ppbV		97
29) Ethyl Acetate	9.217	61	930	0.222	ppbV	#	55
30) chloroform	9.267	83	4647	0.243	ppbV		98
31) Tetrahydrofuran	9.742	42	3067	0.184	ppbV		92
32) 1,2-dichloroethane	10.108	62	3358	0.313	ppbV		95
34) hexane	9.175	57	5544	0.197	ppbV	#	50
36) 1,1,1-trichloroethane	10.392	97	4060	0.217	ppbV		93
37) benzene	10.927	78	9406	0.168	ppbV		99
38) carbon tetrachloride	11.093	117	3454	0.202	ppbV		92
39) cyclohexane	11.240	56	5657	0.183	ppbV		98
40) Dibromomethane	11.840	93	3100	0.218	ppbV	#	97
41) 1,2-dichloropropane	11.873	63	3714	0.199	ppbV	#	95
42) bromodichloromethane	12.100	83	4276	0.183	ppbV		99
43) 1,4-dioxane	12.180	88	1981	0.183	ppbV	#	73
44) trichloroethene	12.153	130	3967	0.211	ppbV		98
45) 2,2,4-trimethylpentane	12.193	57	17892	0.190	ppbV		99
46) heptane	12.513	43	5511	0.146	ppbV		97
47) cis-1,3-dichloropropene	13.167	75	3514	0.145	ppbV		97
48) 4-methyl-2-pentanone	13.233	43	5075	0.117	ppbV		99
49) trans-1,3-dichloropropene	13.792	75	2445	0.135	ppbV		93
50) 1,1,2-trichloroethane	13.992	97	3822	0.211	ppbV		99
52) toluene	14.292	91	11989	0.210	ppbV		100
54) 2-hexanone	14.600	43	3725	0.102	ppbV		95
55) dibromochloromethane	14.742	129	4162	0.217	ppbV		97
56) 1,2-dibromoethane	14.992	107	4766	0.186	ppbV		99
57) tetrachloroethene	15.442	166	4438	0.223	ppbV		98
58) 1,1,1,2-tetrachloroethane	16.067	131	3741	0.214	ppbV		98
59) chlorobenzene	16.083	112	8666	0.186	ppbV		96
60) ethylbenzene	16.433	91	14422	0.191	ppbV		96
61) m+p-xylene	16.592	91	22734	0.384	ppbV		99
62) bromoform	16.667	173	3052	0.204	ppbV		98
63) styrene	16.917	104	7990	0.172	ppbV		99
64) 1,1,2,2-tetrachloroethane	17.008	83	7971	0.184	ppbV		96
65) o-xylene	17.008	91	11761	0.193	ppbV		97
66) 1,2,3-Trichloropropane	17.125	75	5704	0.165	ppbV		97
68) isopropylbenzene	17.517	105	14221	0.180	ppbV		99
69) Bromobenzene	17.600	77	7776	0.172	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547520_Ev2.D
Acq On : 26 Apr 2024 10:31 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD0.2
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 09:00:15 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:59:33 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\r1547523_Ev2.D
Sub List : Default - All compounds listed

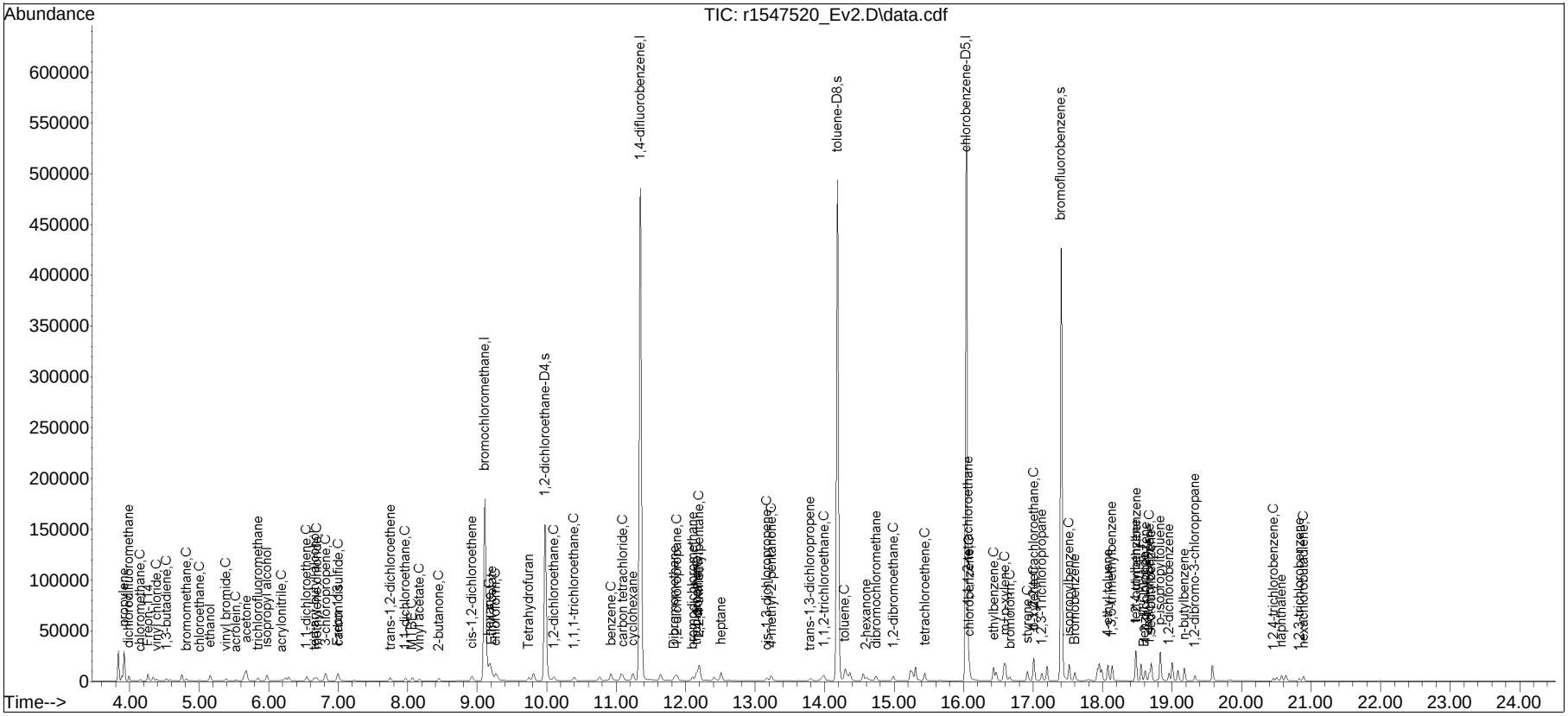
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.075	105	13460	0.170	ppbV	96
71) 1,3,5-trimethylbenzene	18.133	105	13947	0.174	ppbV	96
72) tert-butylbenzene	18.475	119	12675	0.185	ppbV	97
73) 1,2,4-trimethylbenzene	18.483	105	11678	0.171	ppbV	96
74) Benzyl Chloride	18.600	91	4437	0.121	ppbV	99
75) 1,3-dichlorobenzene	18.617	146	7734	0.177	ppbV	99
76) 1,4-dichlorobenzene	18.675	146	8024	0.185	ppbV	97
77) sec-butylbenzene	18.700	105	17289	0.171	ppbV	97
78) p-isopropyltoluene	18.825	119	14432	0.190	ppbV	97
79) 1,2-dichlorobenzene	18.958	146	7721	0.185	ppbV	99
80) n-butylbenzene	19.175	91	13683	0.180	ppbV	100
81) 1,2-dibromo-3-chloropr...	19.325	75	2058	0.139	ppbV	92
82) 1,2,4-trichlorobenzene	20.458	180	3608	0.138	ppbV	97
83) naphthalene	20.575	128	10103	0.104	ppbV	99
84) 1,2,3-trichlorobenzene	20.833	180	3257	0.136	ppbV	98
85) hexachlorobutadiene	20.892	225	4013	0.173	ppbV	97

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

Sub List : Default - All compounds listed4\04\0426SIM_I\r1547523_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547520_Ev2.D
Acq On : 26 Apr 2024 10:31 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD0.2
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 09:00:15 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:59:33 2024
Response via : Initial Calibration

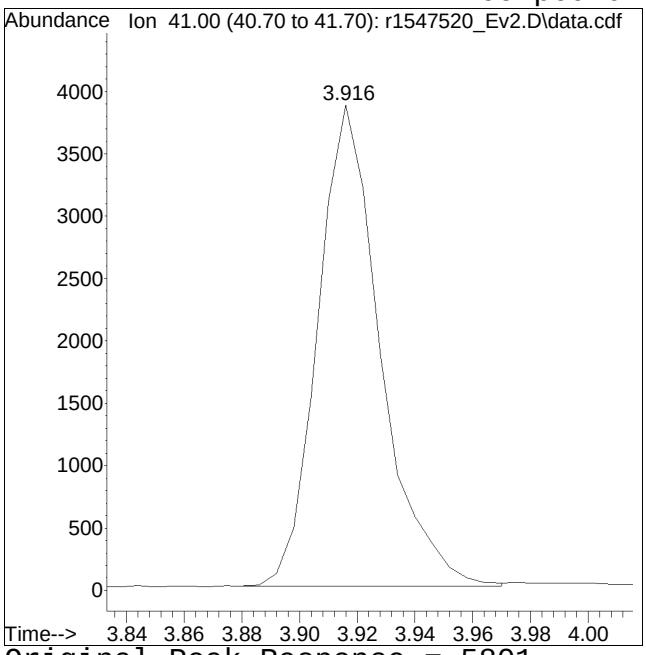


Manual Integration Report

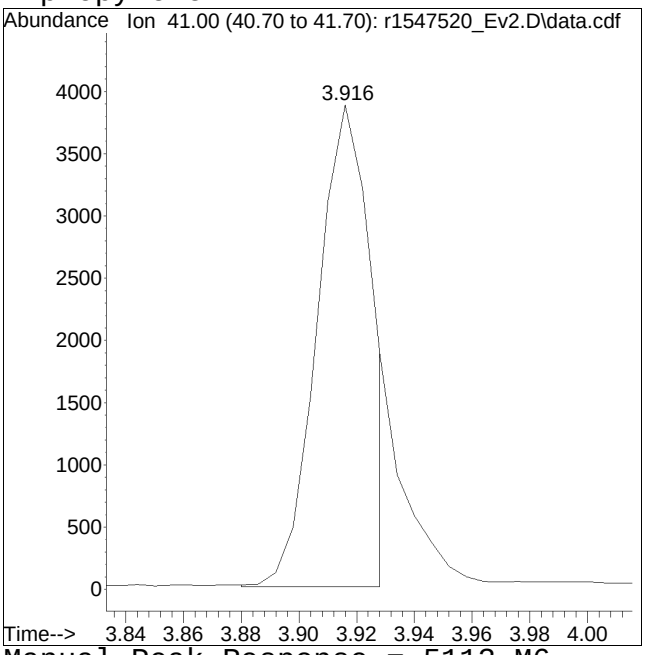
Data Path : O:\Forensics\Data\Airlab15\
Data File : r1547520_Ev2.D
Date Inj'd : 4/26/2020 0:0: 1
Sample : ITO15-SIMSTD0.2

Method : TSIM15_240426.M
Operator : AIRLAB15:JMB
Instrument :
Quant Date : 4/27/2024 9:00 am

Compound #2: propylene



Original Peak Response = 5801



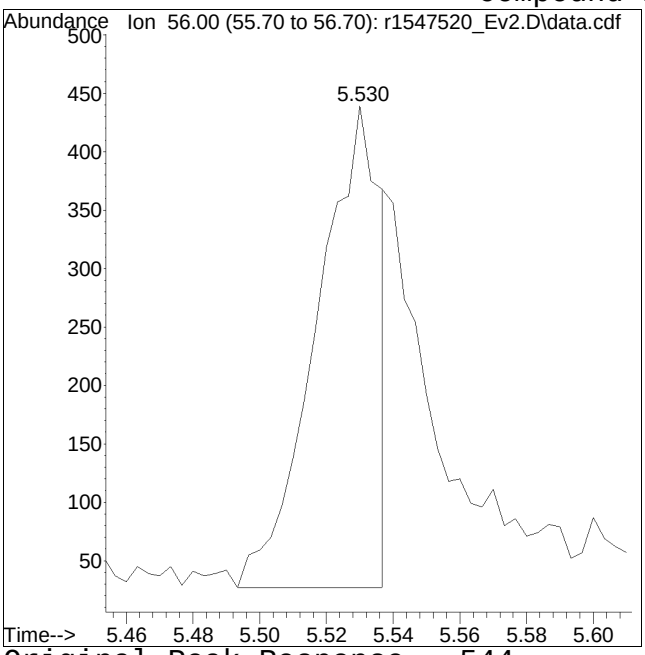
Manual Peak Response = 5113 M6

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

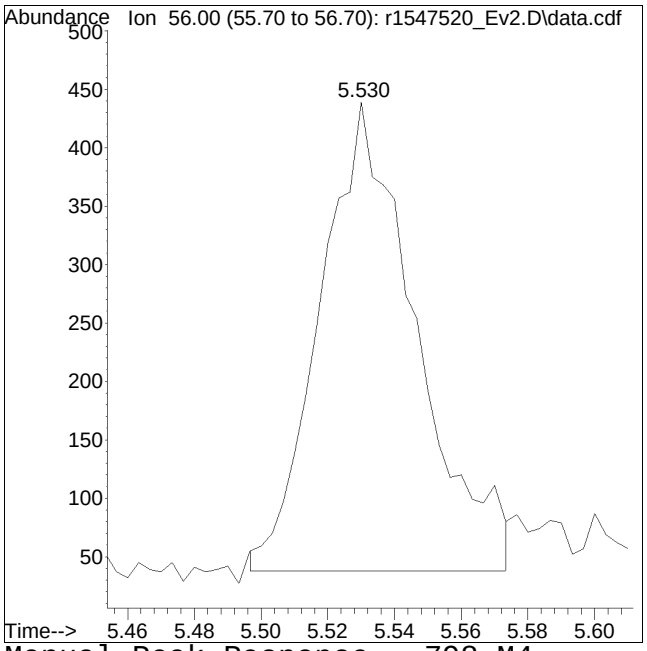
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1547520_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 4/26/2020 0:0: 1 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 4/27/2024 9:00 am

Compound #12: acrolein



Original Peak Response = 544



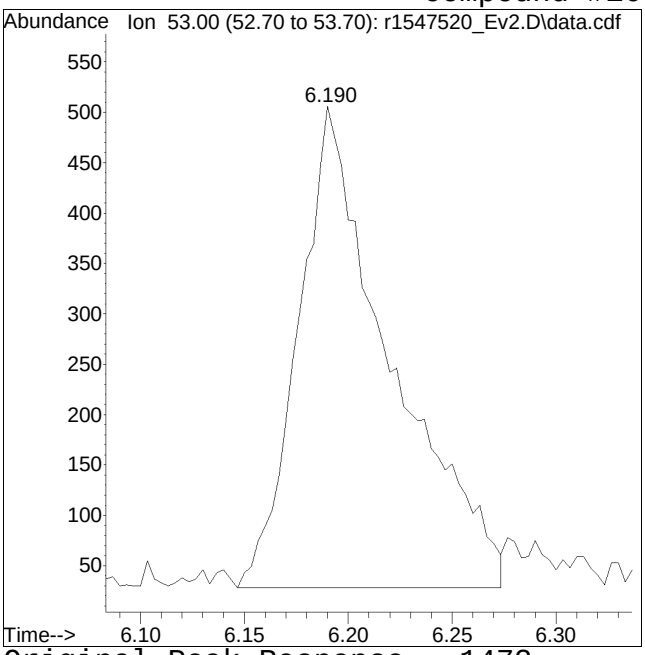
Manual Peak Response = 798 M4

M4 = Poor automated baseline construction.

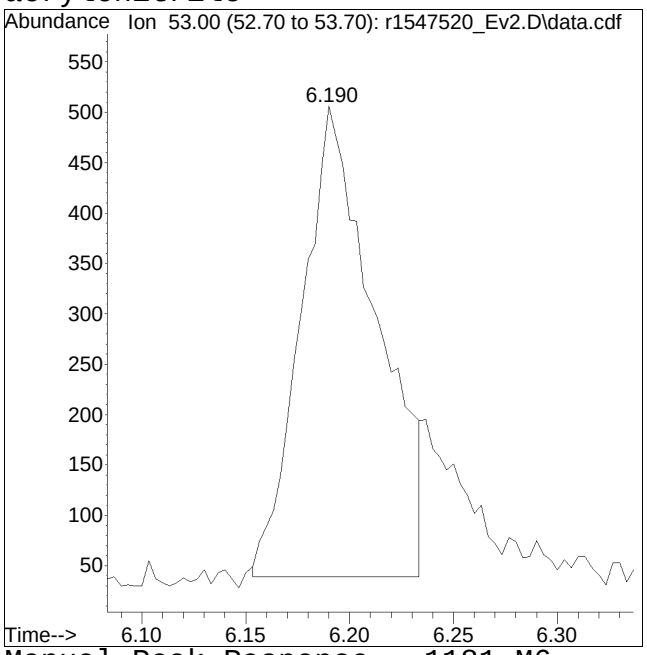
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1547520_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 4/26/2020 0:0: 1 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 4/27/2024 9:00 am

Compound #16: acrylonitrile



Original Peak Response = 1472



Manual Peak Response = 1181 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547521_Ev2.D
Acq On : 26 Apr 2024 11:12 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD0.5
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 09:00:19 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:59:33 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\r1547523_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.108	49	200689	10.000	ppbV	0.00
Standard Area = 201665			Recovery = 99.52%			
33) 1,4-difluorobenzene	11.347	114	632528	10.000	ppbV	0.00
Standard Area = 630510			Recovery = 100.32%			
51) chlorobenzene-D5	16.033	54	102611	10.000	ppbV	0.00
Standard Area = 101854			Recovery = 100.74%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.975	65	144535	10.782	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.82%			
53) toluene-D8	14.183	98	559129	10.761	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.61%			
67) bromofluorobenzene	17.400	95	399007	10.667	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.67%			
Target Compounds						Qvalue
2) propylene	3.910	41	8947M6	0.699	ppbV	
3) dichlorodifluoromethane	3.988	85	11610	0.633	ppbV	99
4) chloromethane	4.150	50	4298	0.410	ppbV	96
5) Freon-114	4.258	85	11436	0.546	ppbV	99
6) vinyl chloride	4.384	62	6393	0.605	ppbV	97
7) 1,3-butadiene	4.528	54	3874	0.430	ppbV	97
8) bromomethane	4.810	94	5014	0.630	ppbV	98
9) chloroethane	5.002	64	3321	0.659	ppbV	96
10) ethanol	5.146	31	19176	2.089	ppbV	99
11) vinyl bromide	5.387	106	5231	0.685	ppbV	99
12) acrolein	5.523	56	2251	0.477	ppbV #	91
13) acetone	5.667	43	32469	2.775	ppbV #	99
14) trichlorofluoromethane	5.843	101	9764	0.800	ppbV	99
15) isopropyl alcohol	5.963	45	19622	1.186	ppbV	98
16) acrylonitrile	6.183	53	3086	0.365	ppbV	96
17) 1,1-dichloroethene	6.546	61	11068	0.730	ppbV	98
18) tertiary butyl alcohol	6.642	59	12635	0.625	ppbV	95
19) methylene chloride	6.690	49	7839	0.498	ppbV	100
20) 3-chloropropene	6.822	41	8915	0.524	ppbV	98
21) carbon disulfide	6.996	76	17898	0.568	ppbV #	87
22) Freon 113	6.990	101	13817	0.707	ppbV	100
23) trans-1,2-dichloroethene	7.742	61	11040	0.725	ppbV	99
24) 1,1-dichloroethane	7.967	63	14110	0.721	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547521_Ev2.D
Acq On : 26 Apr 2024 11:12 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD0.5
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 09:00:19 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:59:33 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\r1547523_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	8.058	73	14985	0.541	ppbV		97
26) vinyl acetate	8.158	43	12092	0.471	ppbV		98
27) 2-butanone	8.433	43	13238	0.484	ppbV		98
28) cis-1,2-dichloroethene	8.925	61	10396	0.715	ppbV		100
29) Ethyl Acetate	9.208	61	2610	0.618	ppbV		74
30) chloroform	9.258	83	12047	0.624	ppbV		98
31) Tetrahydrofuran	9.733	42	8245	0.491	ppbV		95
32) 1,2-dichloroethane	10.100	62	8345	0.771	ppbV		99
34) hexane	9.175	57	14231	0.495	ppbV	#	68
36) 1,1,1-trichloroethane	10.392	97	10497	0.548	ppbV		99
37) benzene	10.920	78	24390	0.426	ppbV		99
38) carbon tetrachloride	11.093	117	8745	0.501	ppbV		98
39) cyclohexane	11.240	56	14980	0.474	ppbV		98
40) Dibromomethane	11.840	93	8002	0.550	ppbV	#	100
41) 1,2-dichloropropane	11.873	63	10005	0.526	ppbV		96
42) bromodichloromethane	12.100	83	11513	0.484	ppbV		98
43) 1,4-dioxane	12.167	88	5346	0.483	ppbV		93
44) trichloroethene	12.153	130	10579	0.552	ppbV		98
45) 2,2,4-trimethylpentane	12.193	57	48258	0.501	ppbV		99
46) heptane	12.507	43	14790	0.384	ppbV		99
47) cis-1,3-dichloropropene	13.167	75	9791	0.395	ppbV		97
48) 4-methyl-2-pentanone	13.217	43	14617	0.330	ppbV		99
49) trans-1,3-dichloropropene	13.792	75	6940	0.376	ppbV		97
50) 1,1,2-trichloroethane	13.983	97	10099	0.547	ppbV		96
52) toluene	14.292	91	31535	0.541	ppbV		99
54) 2-hexanone	14.592	43	12020	0.324	ppbV		97
55) dibromochloromethane	14.733	129	11263	0.576	ppbV		99
56) 1,2-dibromoethane	14.983	107	12990	0.498	ppbV		99
57) tetrachloroethene	15.442	166	11768	0.578	ppbV		99
58) 1,1,1,2-tetrachloroethane	16.067	131	9884	0.553	ppbV		99
59) chlorobenzene	16.083	112	23154	0.487	ppbV		96
60) ethylbenzene	16.425	91	39170	0.508	ppbV		100
61) m+p-xylene	16.592	91	63298	1.049	ppbV		99
62) bromoform	16.658	173	8413	0.552	ppbV		98
63) styrene	16.917	104	22334	0.472	ppbV		100
64) 1,1,2,2-tetrachloroethane	17.008	83	21959	0.498	ppbV		99
65) o-xylene	17.008	91	32188	0.516	ppbV		98
66) 1,2,3-Trichloropropane	17.117	75	15342	0.436	ppbV		98
68) isopropylbenzene	17.517	105	38578	0.479	ppbV		100
69) Bromobenzene	17.592	77	20827	0.452	ppbV		99

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547521_Ev2.D
Acq On : 26 Apr 2024 11:12 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD0.5
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 09:00:19 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:59:33 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\r1547523_Ev2.D
Sub List : Default - All compounds listed

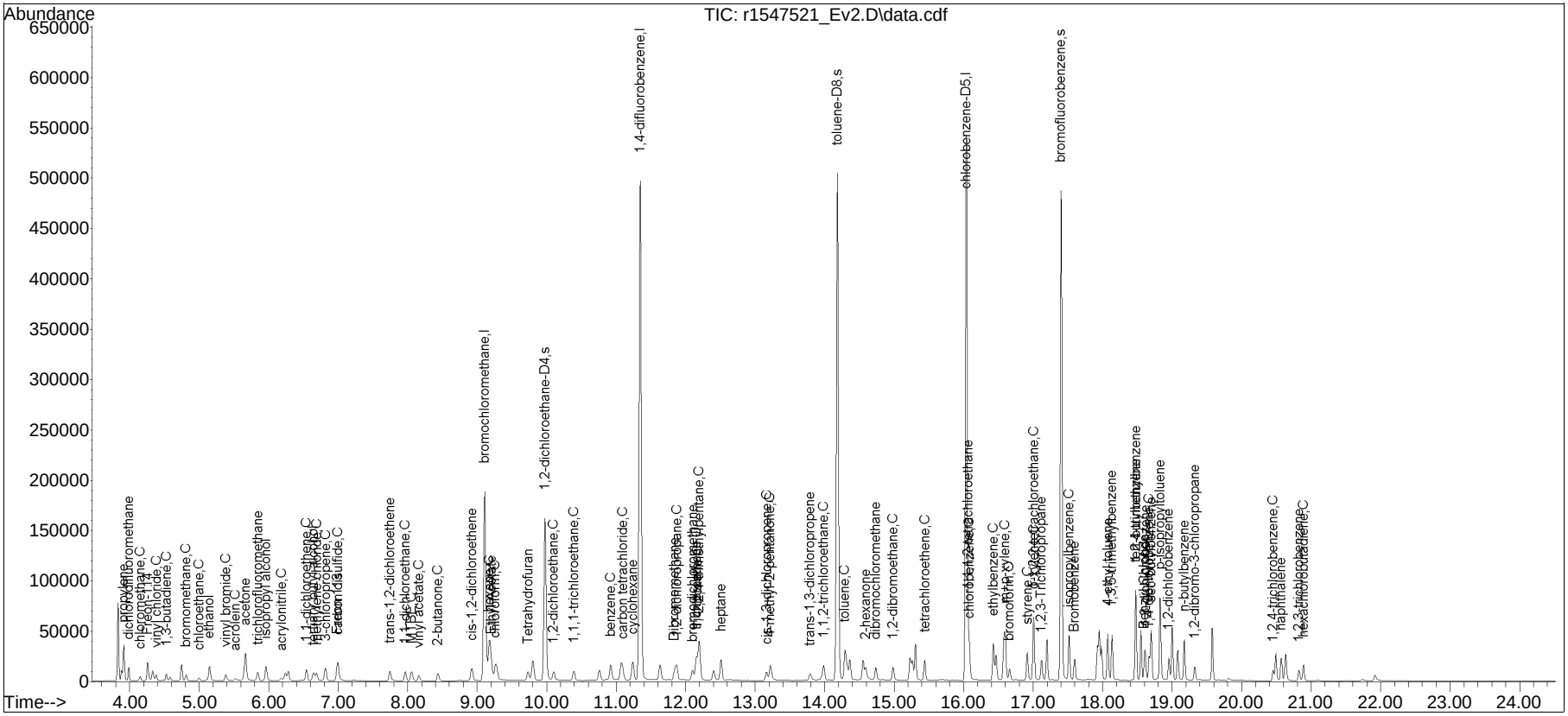
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4-ethyl toluene	18.075	105	38985	0.483	ppbV		97
71) 1,3,5-trimethylbenzene	18.133	105	38919	0.477	ppbV		98
72) tert-butylbenzene	18.475	119	35744	0.511	ppbV		98
73) 1,2,4-trimethylbenzene	18.475	105	33367	0.480	ppbV		93
74) Benzyl Chloride	18.600	91	13576	0.364	ppbV		99
75) 1,3-dichlorobenzene	18.617	146	22820	0.512	ppbV		96
76) 1,4-dichlorobenzene	18.667	146	22589	0.510	ppbV		94
77) sec-butylbenzene	18.700	105	49093	0.476	ppbV		95
78) p-isopropyltoluene	18.825	119	40205	0.519	ppbV		99
79) 1,2-dichlorobenzene	18.950	146	21508	0.505	ppbV	#	91
80) n-butylbenzene	19.175	91	40082	0.517	ppbV		97
81) 1,2-dibromo-3-chloropr...	19.325	75	6297	0.418	ppbV		93
82) 1,2,4-trichlorobenzene	20.450	180	12663	0.474	ppbV		96
83) naphthalene	20.567	128	38040	0.384	ppbV		99
84) 1,2,3-trichlorobenzene	20.825	180	12130	0.496	ppbV		99
85) hexachlorobutadiene	20.892	225	13056	0.552	ppbV		98

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

Sub List : Default - All compounds listed4\04\0426SIM_I\r1547523_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547521_Ev2.D
Acq On : 26 Apr 2024 11:12 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD0.5
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 09:00:19 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:59:33 2024
Response via : Initial Calibration

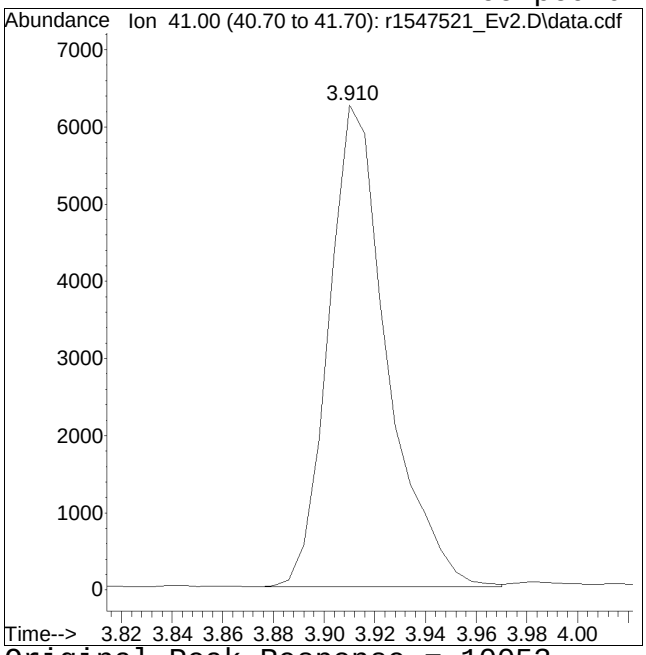


Manual Integration Report

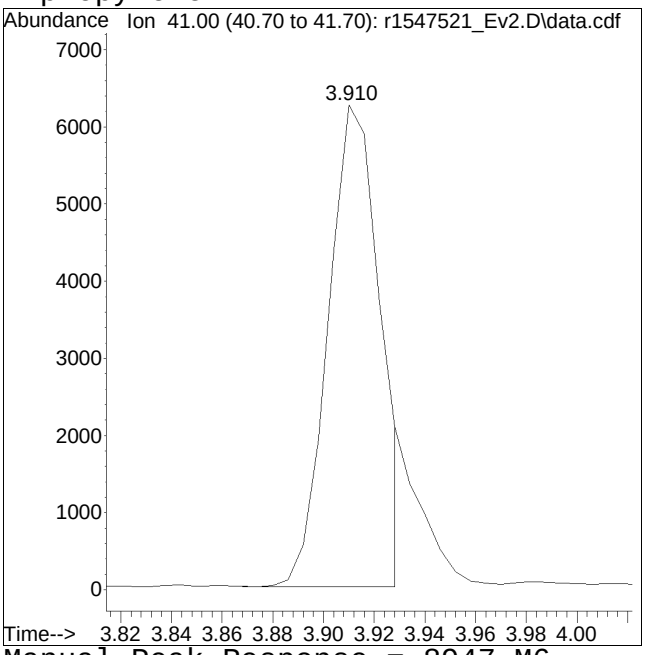
Data Path : O:\Forensics\Data\Airlab15Q
Data File : r1547521_Ev2.D
Date Inj'd : 4/26/2020 0:1: 2
Sample : ITO15-SIMSTD0.5

Method : TSIM15_240426.M
Operator : AIRLAB15:JMB
Instrument :
Quant Date : 4/27/2024 9:00 am

Compound #2: propylene



Original Peak Response = 10053



Manual Peak Response = 8947 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547522_Ev2.D
Acq On : 26 Apr 2024 11:56 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD1.0
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 09:00:23 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:59:33 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\r1547523_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.108	49	200098	10.000	ppbV	0.00
Standard Area = 201665			Recovery = 99.22%			
33) 1,4-difluorobenzene	11.347	114	632256	10.000	ppbV	0.00
Standard Area = 630510			Recovery = 100.28%			
51) chlorobenzene-D5	16.033	54	102447	10.000	ppbV	0.00
Standard Area = 101854			Recovery = 100.58%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.975	65	148271	11.066	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.66%			
53) toluene-D8	14.183	98	584178	11.261	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 112.61%			
67) bromofluorobenzene	17.400	95	425778	11.401	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 114.01%			
Target Compounds						Qvalue
2) propylene	3.910	41	15181M6	1.190	ppbV	
3) dichlorodifluoromethane	3.988	85	23450	1.282	ppbV	99
4) chloromethane	4.150	50	8743	0.837	ppbV	99
5) Freon-114	4.258	85	23237	1.112	ppbV	100
6) vinyl chloride	4.378	62	13314	1.265	ppbV	99
7) 1,3-butadiene	4.528	54	7742	0.863	ppbV	99
8) bromomethane	4.810	94	10569	1.331	ppbV	100
9) chloroethane	4.996	64	6831	1.360	ppbV	96
10) ethanol	5.140	31	40247	4.397	ppbV	100
11) vinyl bromide	5.380	106	10934	1.436	ppbV	99
12) acrolein	5.517	56	4327	0.919	ppbV	99
13) acetone	5.660	43	66725	5.720	ppbV	99
14) trichlorofluoromethane	5.843	101	19561	1.608	ppbV	99
15) isopropyl alcohol	5.953	45	39029	2.367	ppbV	99
16) acrylonitrile	6.177	53	6112	0.725	ppbV	99
17) 1,1-dichloroethene	6.540	61	22447	1.485	ppbV	99
18) tertiary butyl alcohol	6.630	59	26315	1.306	ppbV	100
19) methylene chloride	6.684	49	15846	1.009	ppbV	97
20) 3-chloropropene	6.816	41	18428	1.087	ppbV	100
21) carbon disulfide	6.996	76	37191	1.183	ppbV	95
22) Freon 113	6.990	101	27478	1.409	ppbV	99
23) trans-1,2-dichloroethene	7.742	61	22531	1.483	ppbV	100
24) 1,1-dichloroethane	7.967	63	28652	1.468	ppbV	99

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547522_Ev2.D
Acq On : 26 Apr 2024 11:56 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD1.0
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 09:00:23 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:59:33 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\r1547523_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	8.050	73	30857	1.118	ppbV		98
26) vinyl acetate	8.158	43	25212	0.985	ppbV		97
27) 2-butanone	8.425	43	28023	1.027	ppbV		98
28) cis-1,2-dichloroethene	8.917	61	21093	1.455	ppbV		95
29) Ethyl Acetate	9.200	61	5489	1.303	ppbV		87
30) chloroform	9.258	83	25008	1.298	ppbV		98
31) Tetrahydrofuran	9.717	42	17397	1.039	ppbV		100
32) 1,2-dichloroethane	10.100	62	16483	1.527	ppbV		99
34) hexane	9.175	57	29601	1.030	ppbV	#	76
36) 1,1,1-trichloroethane	10.392	97	21705	1.134	ppbV		99
37) benzene	10.920	78	49626	0.868	ppbV		99
38) carbon tetrachloride	11.093	117	18037	1.034	ppbV		96
39) cyclohexane	11.233	56	31010	0.981	ppbV		97
40) Dibromomethane	11.833	93	16594	1.142	ppbV	#	100
41) 1,2-dichloropropane	11.867	63	20423	1.074	ppbV		98
42) bromodichloromethane	12.093	83	23772	0.999	ppbV		98
43) 1,4-dioxane	12.153	88	11156	1.009	ppbV		100
44) trichloroethene	12.147	130	22489	1.174	ppbV		98
45) 2,2,4-trimethylpentane	12.193	57	99173	1.030	ppbV		100
46) heptane	12.507	43	30486	0.793	ppbV		97
47) cis-1,3-dichloropropene	13.158	75	20531	0.829	ppbV		98
48) 4-methyl-2-pentanone	13.208	43	32018	0.722	ppbV		99
49) trans-1,3-dichloropropene	13.783	75	15288	0.828	ppbV		97
50) 1,1,2-trichloroethane	13.983	97	20348	1.102	ppbV		97
52) toluene	14.292	91	64474	1.107	ppbV		99
54) 2-hexanone	14.583	43	27391	0.739	ppbV		99
55) dibromochloromethane	14.733	129	23695	1.214	ppbV		99
56) 1,2-dibromoethane	14.983	107	27324	1.049	ppbV		100
57) tetrachloroethene	15.433	166	23946	1.179	ppbV		99
58) 1,1,1,2-tetrachloroethane	16.067	131	20592	1.154	ppbV		99
59) chlorobenzene	16.075	112	47132	0.993	ppbV		99
60) ethylbenzene	16.425	91	81722	1.061	ppbV		100
61) m+p-xylene	16.592	91	130825	2.172	ppbV		99
62) bromoform	16.658	173	18790	1.236	ppbV		99
63) styrene	16.908	104	47567	1.007	ppbV		98
64) 1,1,2,2-tetrachloroethane	17.000	83	45889	1.042	ppbV		100
65) o-xylene	17.008	91	67226	1.080	ppbV		98
66) 1,2,3-Trichloropropane	17.117	75	32433	0.923	ppbV		99
68) isopropylbenzene	17.517	105	80270	0.997	ppbV		100
69) Bromobenzene	17.592	77	43278	0.940	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547522_Ev2.D
Acq On : 26 Apr 2024 11:56 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD1.0
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 09:00:23 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:59:33 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\r1547523_Ev2.D
Sub List : Default - All compounds listed

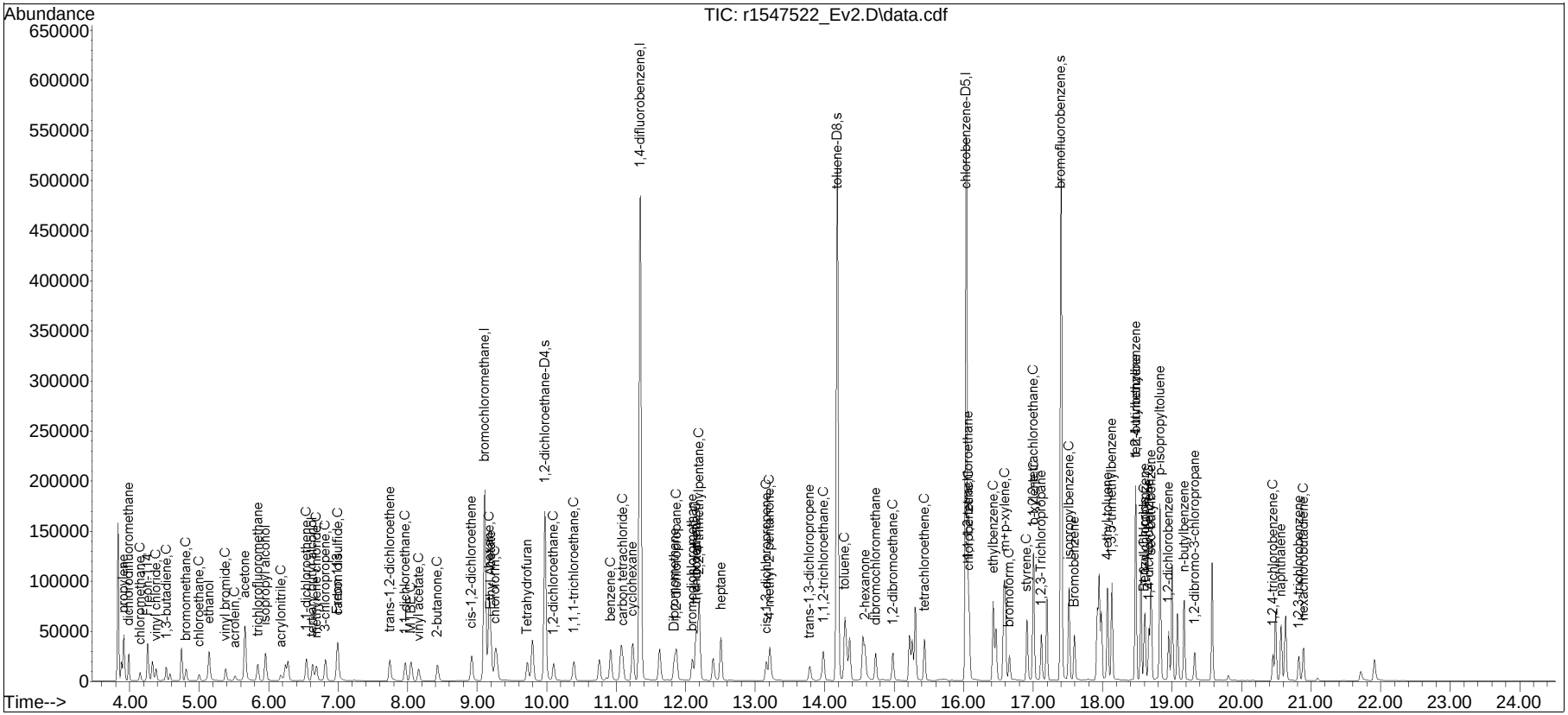
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.067	105	82833	1.029	ppbV	99
71) 1,3,5-trimethylbenzene	18.133	105	81237	0.998	ppbV	99
72) tert-butylbenzene	18.475	119	75904	1.087	ppbV	99
73) 1,2,4-trimethylbenzene	18.475	105	71660	1.032	ppbV	96
74) Benzyl Chloride	18.600	91	31740	0.852	ppbV	98
75) 1,3-dichlorobenzene	18.608	146	48881	1.098	ppbV	98
76) 1,4-dichlorobenzene	18.667	146	47972	1.084	ppbV	99
77) sec-butylbenzene	18.700	105	103900	1.008	ppbV	94
78) p-isopropyltoluene	18.825	119	81384	1.053	ppbV	99
79) 1,2-dichlorobenzene	18.950	146	45656	1.074	ppbV	95
80) n-butylbenzene	19.175	91	85192	1.101	ppbV	94
81) 1,2-dibromo-3-chloropr...	19.325	75	13800	0.917	ppbV	96
82) 1,2,4-trichlorobenzene	20.450	180	28729	1.076	ppbV	99
83) naphthalene	20.567	128	87956	0.889	ppbV	100
84) 1,2,3-trichlorobenzene	20.825	180	27849	1.142	ppbV	99
85) hexachlorobutadiene	20.892	225	28473	1.205	ppbV	97

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

Sub List : Default - All compounds listed4\04\0426SIM_I\r1547523_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547522_Ev2.D
Acq On : 26 Apr 2024 11:56 PM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD1.0
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 09:00:23 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:59:33 2024
Response via : Initial Calibration

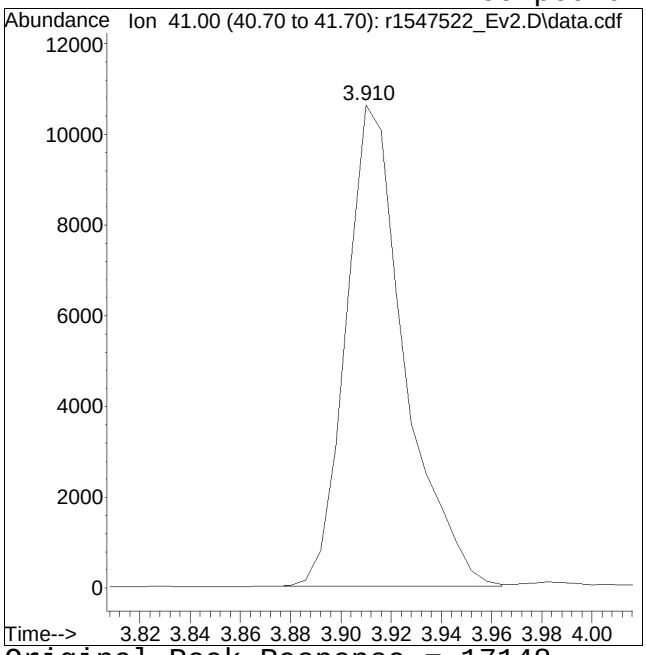


Manual Integration Report

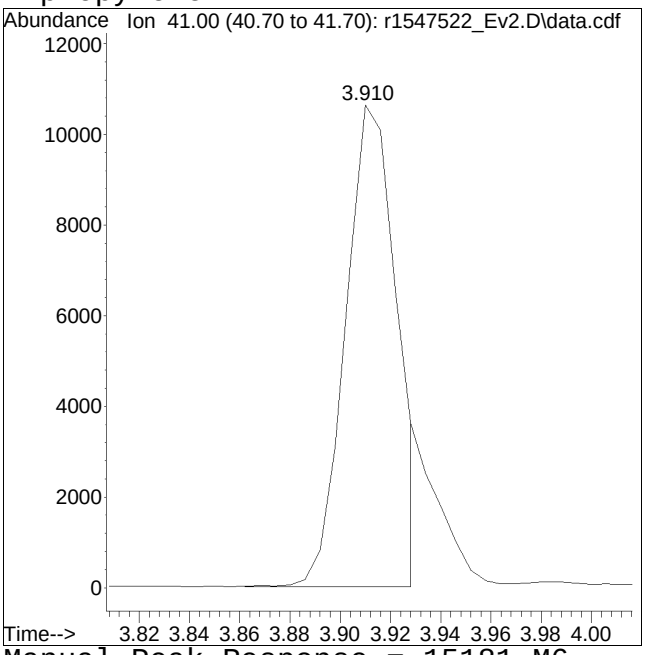
Data Path : O:\Forensics\Data\Airlab15Q
Data File : r1547522_Ev2.D
Date Inj'd : 4/26/2020 0:1: 6
Sample : ITO15-SIMSTD1.0

Method : TSIM15_240426.M
Operator : AIRLAB15:JMB
Instrument :
Quant Date : 4/27/2024 9:00 am

Compound #2: propylene



Original Peak Response = 17148



Manual Peak Response = 15181 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547523_Ev2.D
Acq On : 27 Apr 2024 12:38 AM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD5.0
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:58:35 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Apr 10 15:51:36 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\r1547523_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) bromochloromethane	9.108	49	201665	10.000	ppbV		#-0.04
Standard Area = 201665			Recovery = 100.00%				
33) 1,4-difluorobenzene	11.347	114	630510	10.000	ppbV		-0.03
Standard Area = 630510			Recovery = 100.00%				
51) chlorobenzene-D5	16.033	54	101854	10.000	ppbV		-0.03
Standard Area = 101854			Recovery = 100.00%				
System Monitoring Compounds							
35) 1,2-dichloroethane-D4	9.975	65	154447	11.826	ppbV		-0.04
Spiked Amount 10.000	Range 70 - 130		Recovery = 118.26%				
53) toluene-D8	14.183	98	595312	11.853	ppbV		-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 118.53%				
67) bromofluorobenzene	17.400	95	440779	12.265	ppbV		-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 122.65%				
Target Compounds							Qvalue
2) propylene	3.910	41	74017M6	5.948	ppbV		
3) dichlorodifluoromethane	3.988	85	140826	8.103	ppbV		97
4) chloromethane	4.150	50	50224	4.586	ppbV		98
5) Freon-114	4.258	85	134202	6.447	ppbV	#	81
6) vinyl chloride	4.384	62	80137	7.820	ppbV		96
7) 1,3-butadiene	4.528	54	46322	5.025	ppbV	#	56
8) bromomethane	4.810	94	62282	8.119	ppbV		95
9) chloroethane	5.002	64	39856	8.360	ppbV	#	76
10) ethanol	5.134	31	222177	23.128	ppbV		90
11) vinyl bromide	5.383	106	65977	9.442	ppbV		94
12) acrolein	5.513	56	25407	5.293	ppbV	#	88
13) acetone	5.653	43	366465	31.638	ppbV		97
14) trichlorofluoromethane	5.843	101	113929	10.170	ppbV		100
15) isopropyl alcohol	5.943	45	216640	12.826	ppbV	#	96
16) acrylonitrile	6.173	53	46501	5.350	ppbV		99
17) 1,1-dichloroethene	6.546	61	133431	9.358	ppbV		99
18) tertiary butyl alcohol	6.612	59	152210	8.095	ppbV	#	95
19) methylene chloride	6.690	49	87456	5.473	ppbV	#	70
20) 3-chloropropene	6.816	41	111933	6.748	ppbV		95
21) carbon disulfide	6.996	76	228851	7.530	ppbV		95
22) Freon 113	6.990	101	159195	8.585	ppbV		96
23) trans-1,2-dichloroethene	7.742	61	135478	9.457	ppbV		98
24) 1,1-dichloroethane	7.967	63	170331	9.234	ppbV		98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547523_Ev2.D
Acq On : 27 Apr 2024 12:38 AM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD5.0
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:58:35 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Apr 10 15:51:36 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\r1547523_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	8.042	73	184696	6.763	ppbV		94
26) vinyl acetate	8.150	43	156495	6.125	ppbV	#	94
27) 2-butanone	8.417	43	175719	6.503	ppbV	#	90
28) cis-1,2-dichloroethene	8.925	61	130733	9.571	ppbV		95
29) Ethyl Acetate	9.192	61	34837	9.067	ppbV	#	51
30) chloroform	9.267	83	144547	7.739	ppbV	#	92
31) Tetrahydrofuran	9.700	42	107058	6.430	ppbV		94
32) 1,2-dichloroethane	10.100	62	96271	9.473	ppbV	#	85
34) hexane	9.175	57	172501	6.041	ppbV	#	74
36) 1,1,1-trichloroethane	10.392	97	129822	6.933	ppbV		95
37) benzene	10.920	78	295131	5.075	ppbV		97
38) carbon tetrachloride	11.093	117	109702	6.337	ppbV		94
39) cyclohexane	11.240	56	183056	5.802	ppbV		95
40) Dibromomethane	11.840	93	97782	6.890	ppbV	#	96
41) 1,2-dichloropropane	11.867	63	122017	6.499	ppbV		97
42) bromodichloromethane	12.100	83	144401	6.073	ppbV	#	97
43) 1,4-dioxane	12.140	88	69478	6.358	ppbV		96
44) trichloroethene	12.147	130	132423	7.057	ppbV		97
45) 2,2,4-trimethylpentane	12.193	57	584056	6.112	ppbV		92
46) heptane	12.507	43	183346	4.595	ppbV	#	80
47) cis-1,3-dichloropropene	13.158	75	136592	5.406	ppbV		96
48) 4-methyl-2-pentanone	13.200	43	204338	4.379	ppbV	#	76
49) trans-1,3-dichloropropene	13.783	75	103618	5.491	ppbV		98
50) 1,1,2-trichloroethane	13.983	97	122443	6.745	ppbV		90
52) toluene	14.292	91	385185	6.809	ppbV		98
54) 2-hexanone	14.567	43	184731	4.786	ppbV	#	72
55) dibromochloromethane	14.733	129	153590	8.167	ppbV		99
56) 1,2-dibromoethane	14.983	107	168695	6.539	ppbV		99
57) tetrachloroethene	15.433	166	143346	7.280	ppbV		99
58) 1,1,1,2-tetrachloroethane	16.067	131	125085	7.209	ppbV		99
59) chlorobenzene	16.075	112	283265	6.007	ppbV		98
60) ethylbenzene	16.425	91	505151	6.706	ppbV		93
61) m+p-xylene	16.592	91	801923	13.629	ppbV		91
62) bromoform	16.658	173	128248	8.820	ppbV		99
63) styrene	16.908	104	306131	6.530	ppbV		98
64) 1,1,2,2-tetrachloroethane	17.000	83	276209	6.332	ppbV		96
65) o-xylene	17.008	91	404827	6.657	ppbV		93
66) 1,2,3-Trichloropropane	17.117	75	193206	5.458	ppbV		96
68) isopropylbenzene	17.517	105	480806	6.021	ppbV		96
69) Bromobenzene	17.592	77	256221	5.545	ppbV	#	84

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547523_Ev2.D
Acq On : 27 Apr 2024 12:38 AM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD5.0
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:58:35 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Apr 10 15:51:36 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\r1547523_Ev2.D
Sub List : Default - All compounds listed

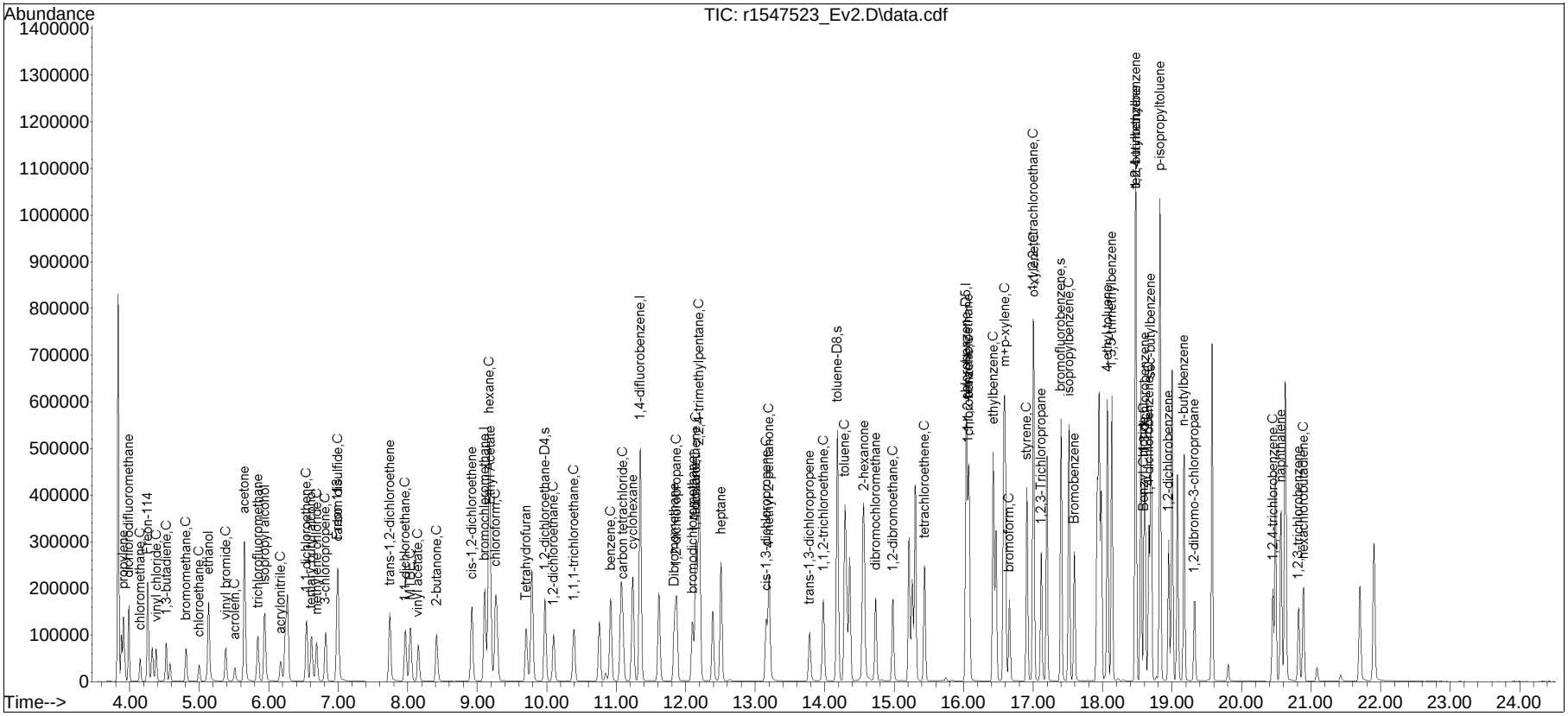
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4-ethyl toluene	18.067	105	513395	6.417	ppbV		95
71) 1,3,5-trimethylbenzene	18.133	105	491188	6.159	ppbV		93
72) tert-butylbenzene	18.475	119	450533	6.604	ppbV		97
73) 1,2,4-trimethylbenzene	18.475	105	442625	6.435	ppbV		93
74) Benzyl Chloride	18.592	91	247050	6.699	ppbV		100
75) 1,3-dichlorobenzene	18.608	146	311935	7.151	ppbV		92
76) 1,4-dichlorobenzene	18.667	146	301198	6.952	ppbV		93
77) sec-butylbenzene	18.692	105	631343	6.199	ppbV		95
78) p-isopropyltoluene	18.825	119	486339	6.375	ppbV		92
79) 1,2-dichlorobenzene	18.950	146	282950	6.759	ppbV	#	91
80) n-butylbenzene	19.167	91	516996	6.891	ppbV		99
81) 1,2-dibromo-3-chloropr...	19.317	75	92067	6.076	ppbV	#	85
82) 1,2,4-trichlorobenzene	20.450	180	209407	8.160	ppbV		94
83) naphthalene	20.567	128	570091	5.926	ppbV		97
84) 1,2,3-trichlorobenzene	20.817	180	179678	7.678	ppbV		97
85) hexachlorobutadiene	20.892	225	177595	7.883	ppbV		94

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

Sub List : Default - All compounds listed4\04\0426SIM_I\r1547523_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547523_Ev2.D
Acq On : 27 Apr 2024 12:38 AM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD5.0
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 08:58:35 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Apr 10 15:51:36 2024
Response via : Initial Calibration

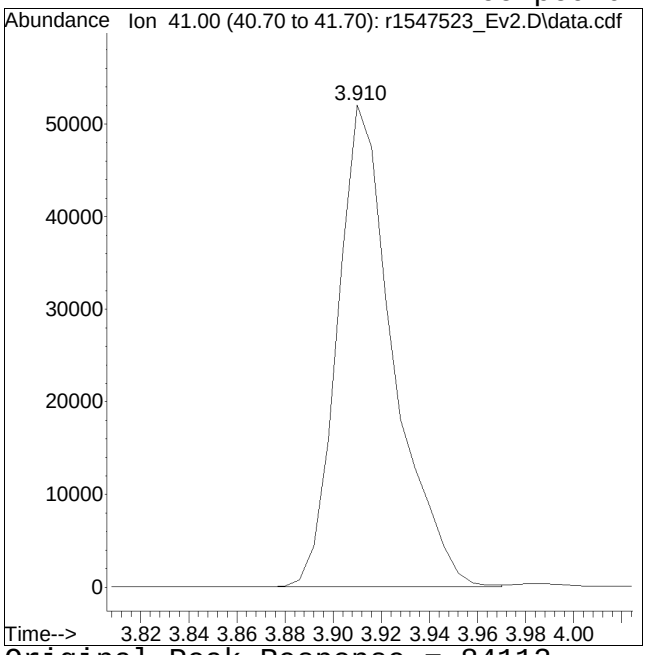


Manual Integration Report

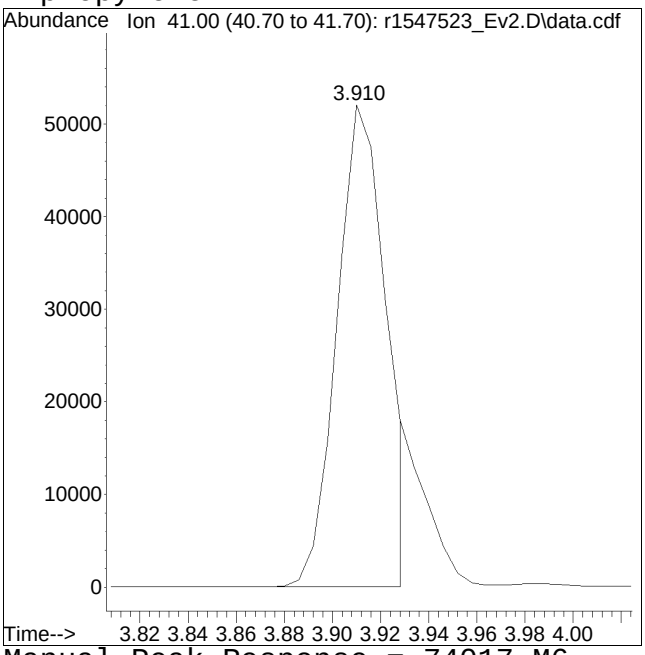
Data Path : O:\Forensics\Data\Airlab15\
Data File : r1547523_Ev2.D
Date Inj'd : 4/27/2020 0:2: 8
Sample : ITO15-SIMSTD5.0

QMethod : TSIM15_240426.M
Operator : AIRLAB15:JMB
Instrument :
Quant Date : 4/27/2024 8:58 am

Compound #2: propylene



Original Peak Response = 84112



Manual Peak Response = 74017 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547524_Ev2.D
Acq On : 27 Apr 2024 1:22 AM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD010
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 09:00:27 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:59:33 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\r1547523_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.108	49	204466	10.000	ppbV	0.00
Standard Area = 201665			Recovery = 101.39%			
33) 1,4-difluorobenzene	11.347	114	633575	10.000	ppbV	0.00
Standard Area = 630510			Recovery = 100.49%			
51) chlorobenzene-D5	16.033	54	101891	10.000	ppbV	0.00
Standard Area = 101854			Recovery = 100.04%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.975	65	156533	11.658	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 116.58%			
53) toluene-D8	14.183	98	610599	11.834	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 118.34%			
67) bromofluorobenzene	17.400	95	423025	11.389	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 113.89%			
Target Compounds						Qvalue
2) propylene	3.910	41	152569M6	11.707	ppbV	
3) dichlorodifluoromethane	3.982	85	253280	13.552	ppbV	100
4) chloromethane	4.150	50	98180	9.200	ppbV	100
5) Freon-114	4.258	85	259889	12.173	ppbV	98
6) vinyl chloride	4.378	62	154964	14.404	ppbV	99
7) 1,3-butadiene	4.522	54	90615	9.880	ppbV	92
8) bromomethane	4.810	94	122135	15.053	ppbV	98
9) chloroethane	4.996	64	79760	15.541	ppbV	99
10) ethanol	5.128	31	435084	46.513	ppbV	96
11) vinyl bromide	5.380	106	136495	17.543	ppbV	98
12) acrolein	5.507	56	53398	11.104	ppbV	99
13) acetone	5.647	43	745220	62.523	ppbV	98
14) trichlorofluoromethane	5.843	101	228093	18.354	ppbV	100
15) isopropyl alcohol	5.930	45	446008	26.470	ppbV	99
16) acrylonitrile	6.167	53	90121	10.461	ppbV	98
17) 1,1-dichloroethene	6.540	61	274624	17.777	ppbV	99
18) tertiary butyl alcohol	6.600	59	323923	15.735	ppbV	98
19) methylene chloride	6.684	49	180819	11.268	ppbV	98
20) 3-chloropropene	6.816	41	238873	13.786	ppbV	99
21) carbon disulfide	6.990	76	474522	14.775	ppbV	100
22) Freon 113	6.990	101	326538	16.389	ppbV	99
23) trans-1,2-dichloroethene	7.742	61	282405	18.194	ppbV	98
24) 1,1-dichloroethane	7.967	63	351275	17.617	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547524_Ev2.D
Acq On : 27 Apr 2024 1:22 AM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD010
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 09:00:27 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:59:33 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\r1547523_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	8.033	73	382802	13.570	ppbV		99
26) vinyl acetate	8.150	43	330461	12.638	ppbV		99
27) 2-butanone	8.408	43	365722	13.118	ppbV		99
28) cis-1,2-dichloroethene	8.917	61	270148	18.238	ppbV		95
29) Ethyl Acetate	9.192	61	73838	17.151	ppbV		89
30) chloroform	9.267	83	292727	14.871	ppbV		99
31) Tetrahydrofuran	9.700	42	226296	13.228	ppbV		96
32) 1,2-dichloroethane	10.100	62	197523	17.904	ppbV		99
34) hexane	9.175	57	349435	12.128	ppbV		89
36) 1,1,1-trichloroethane	10.392	97	268531	14.005	ppbV		98
37) benzene	10.920	78	601506	10.500	ppbV		100
38) carbon tetrachloride	11.093	117	226304	12.945	ppbV		96
39) cyclohexane	11.240	56	373490	11.796	ppbV		99
40) Dibromomethane	11.840	93	201346	13.827	ppbV	#	99
41) 1,2-dichloropropane	11.867	63	252569	13.250	ppbV		99
42) bromodichloromethane	12.100	83	301726	12.659	ppbV		98
43) 1,4-dioxane	12.133	88	144125	13.011	ppbV		100
44) trichloroethene	12.153	130	270915	14.112	ppbV		96
45) 2,2,4-trimethylpentane	12.193	57	1179368	12.223	ppbV		99
46) heptane	12.507	43	377344	9.791	ppbV		99
47) cis-1,3-dichloropropene	13.158	75	289291	11.653	ppbV		99
48) 4-methyl-2-pentanone	13.192	43	422076	9.500	ppbV		99
49) trans-1,3-dichloropropene	13.783	75	222563	12.033	ppbV		100
50) 1,1,2-trichloroethane	13.983	97	254505	13.760	ppbV		99
52) toluene	14.292	91	786636	13.581	ppbV		99
54) 2-hexanone	14.567	43	393756	10.676	ppbV		99
55) dibromochloromethane	14.733	129	323241	16.646	ppbV		99
56) 1,2-dibromoethane	14.983	107	349469	13.494	ppbV		100
57) tetrachloroethene	15.442	166	293966	14.548	ppbV		98
58) 1,1,1,2-tetrachloroethane	16.067	131	259021	14.597	ppbV		100
59) chlorobenzene	16.083	112	579970	12.291	ppbV		95
60) ethylbenzene	16.425	91	1034763	13.502	ppbV		99
61) m+p-xylene	16.592	91	1628295	27.179	ppbV		99
62) bromoform	16.658	173	274629	18.162	ppbV		100
63) styrene	16.908	104	635980	13.534	ppbV		100
64) 1,1,2,2-tetrachloroethane	17.000	83	559561	12.776	ppbV		99
65) o-xylene	17.008	91	817841	13.213	ppbV		99
66) 1,2,3-Trichloropropane	17.117	75	394619	11.290	ppbV		100
68) isopropylbenzene	17.517	105	986446	12.322	ppbV		100
69) Bromobenzene	17.592	77	523769	11.443	ppbV		100

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547524_Ev2.D
Acq On : 27 Apr 2024 1:22 AM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD010
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 09:00:27 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:59:33 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\r1547523_Ev2.D
Sub List : Default - All compounds listed

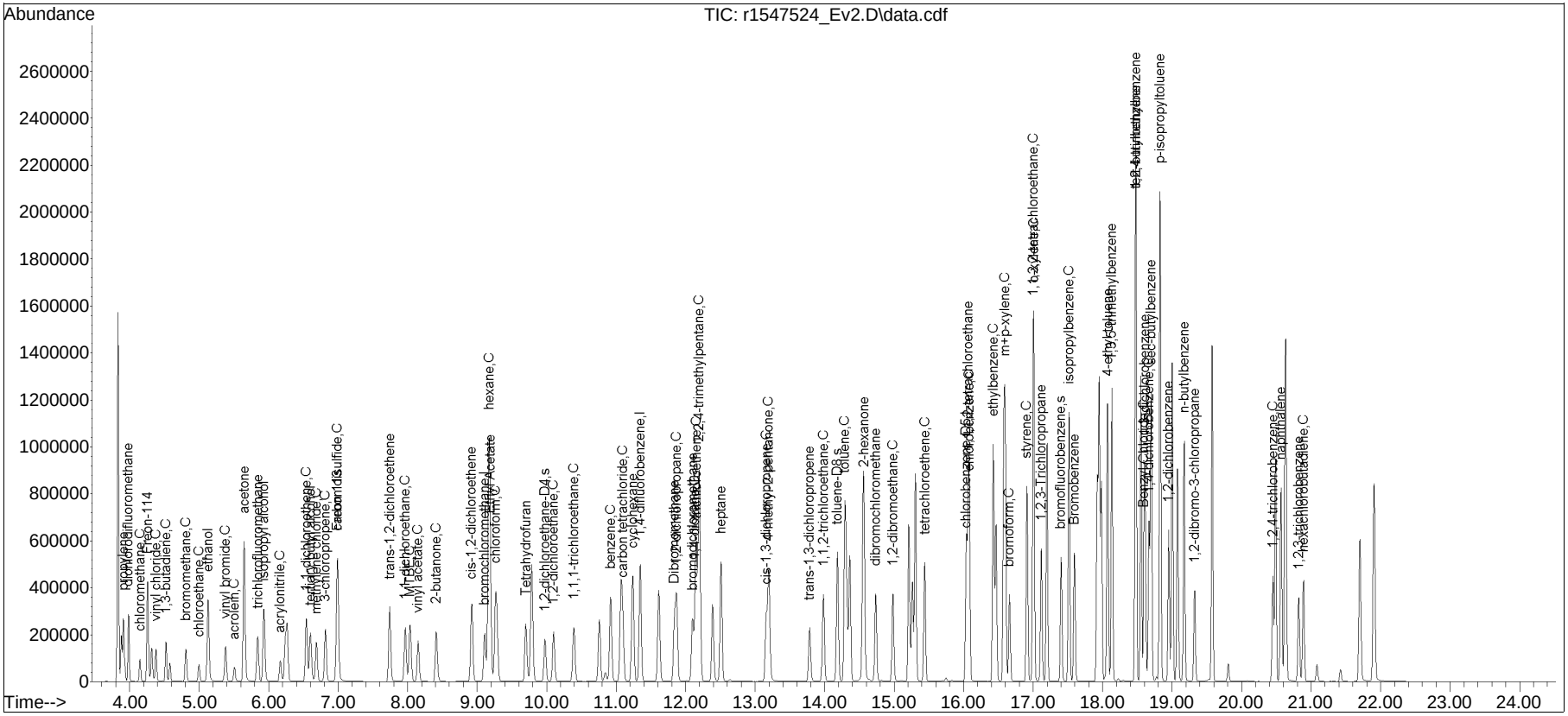
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.075	105	1058833	13.222	ppbV	97
71) 1,3,5-trimethylbenzene	18.133	105	896354	11.068	ppbV	98
72) tert-butylbenzene	18.475	119	902265	12.993	ppbV	99
73) 1,2,4-trimethylbenzene	18.475	105	896020	12.976	ppbV	99
74) Benzyl Chloride	18.592	91	568215	15.330	ppbV	99
75) 1,3-dichlorobenzene	18.608	146	637753	14.409	ppbV	98
76) 1,4-dichlorobenzene	18.667	146	626126	14.224	ppbV	99
77) sec-butylbenzene	18.700	105	1280945	12.496	ppbV	94
78) p-isopropyltoluene	18.825	119	998728	12.989	ppbV	100
79) 1,2-dichlorobenzene	18.950	146	603508	14.274	ppbV	96
80) n-butylbenzene	19.175	91	1055902	13.717	ppbV	91
81) 1,2-dibromo-3-chloropr...	19.325	75	196884	13.157	ppbV	98
82) 1,2,4-trichlorobenzene	20.450	180	467815	17.621	ppbV	99
83) naphthalene	20.567	128	1254326	12.751	ppbV	99
84) 1,2,3-trichlorobenzene	20.825	180	408886	16.853	ppbV	98
85) hexachlorobutadiene	20.892	225	376723	16.029	ppbV	100

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

Sub List : Default - All compounds listed4\04\0426SIM_I\r1547523_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547524_Ev2.D
Acq On : 27 Apr 2024 1:22 AM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD010
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

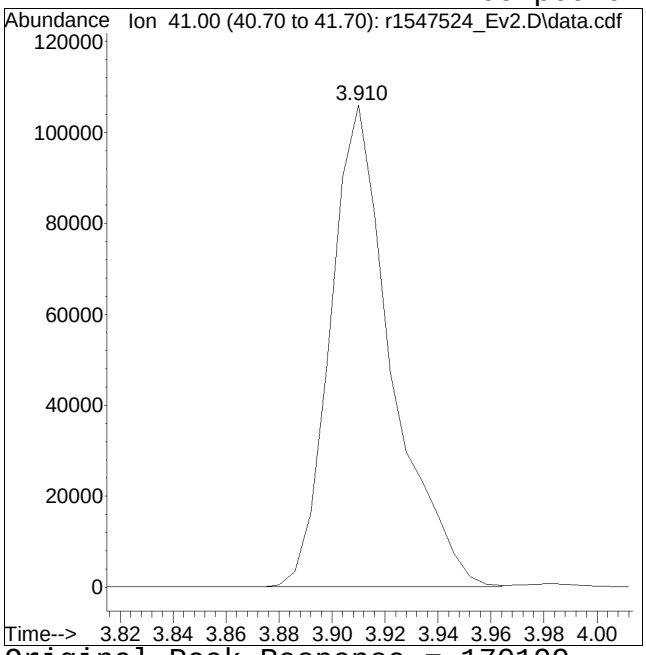
Quant Time: Apr 27 09:00:27 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:59:33 2024
Response via : Initial Calibration



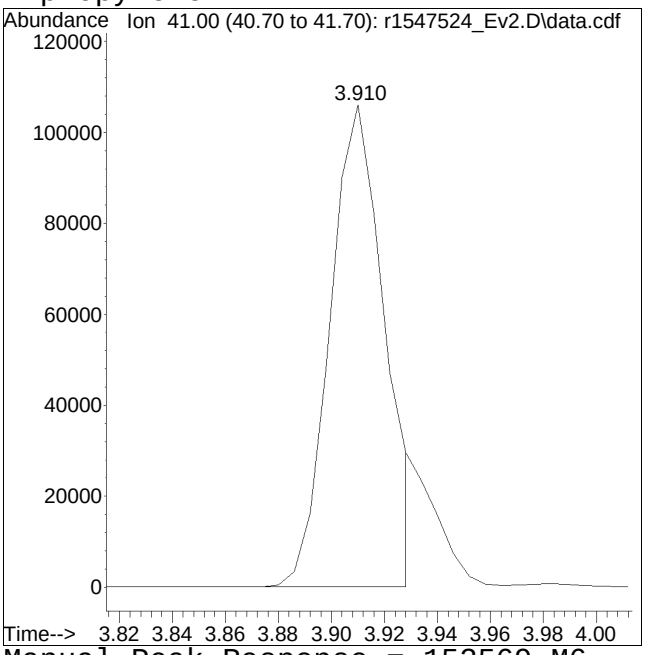
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1547524_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 4/27/2020 0:1: 2 Instrument :
Sample : ITO15-SIMSTD010 Quant Date : 4/27/2024 9:00 am

Compound #2: propylene



Original Peak Response = 170199



Manual Peak Response = 152569 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547525_Ev2.D
Acq On : 27 Apr 2024 2:02 AM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD020
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 09:00:31 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:59:33 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\r1547523_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.108	49	199907	10.000	ppbV	0.00
Standard Area = 201665			Recovery = 99.13%			
33) 1,4-difluorobenzene	11.347	114	642407	10.000	ppbV	0.00
Standard Area = 630510			Recovery = 101.89%			
51) chlorobenzene-D5	16.033	54	97613	10.000	ppbV	0.00
Standard Area = 101854			Recovery = 95.84%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.975	65	150231	11.035	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.35%			
53) toluene-D8	14.183	98	609880	12.338	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 123.38%			
67) bromofluorobenzene	17.400	95	421496	11.845	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 118.45%			
Target Compounds						Qvalue
2) propylene	3.916	41	200715M6	15.753	ppbV	
3) dichlorodifluoromethane	3.988	85	340320	18.625	ppbV	100
4) chloromethane	4.156	50	131322	12.587	ppbV	99
5) Freon-114	4.264	85	344139	16.487	ppbV	99
6) vinyl chloride	4.384	62	201539	19.160	ppbV	99
7) 1,3-butadiene	4.528	54	120473	13.435	ppbV	92
8) bromomethane	4.810	94	159582	20.116	ppbV	100
9) chloroethane	5.002	64	104941	20.914	ppbV	99
10) ethanol	5.134	31	550363	60.179	ppbV	90
11) vinyl bromide	5.387	106	185082	24.329	ppbV	95
12) acrolein	5.513	56	71989	15.311	ppbV	98
13) acetone	5.650	43	1012653	86.898	ppbV	95
14) trichlorofluoromethane	5.847	101	292153	24.045	ppbV	98
15) isopropyl alcohol	5.937	45	622691	37.799	ppbV	98
16) acrylonitrile	6.173	53	119444	14.180	ppbV	100
17) 1,1-dichloroethene	6.546	61	367607	24.339	ppbV	99
18) tertiary butyl alcohol	6.606	59	449769	22.346	ppbV	98
19) methylene chloride	6.690	49	239368	15.256	ppbV	99
20) 3-chloropropene	6.822	41	332952	19.653	ppbV	97
21) carbon disulfide	6.996	76	662926	21.112	ppbV	99
22) Freon 113	6.990	101	447945	22.995	ppbV	98
23) trans-1,2-dichloroethene	7.742	61	385787	25.421	ppbV	100
24) 1,1-dichloroethane	7.967	63	477469	24.492	ppbV	100

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547525_Ev2.D
Acq On : 27 Apr 2024 2:02 AM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD020
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 09:00:31 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:59:33 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\r1547523_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	8.033	73	530851	19.247	ppbV		99
26) vinyl acetate	8.150	43	467721	18.295	ppbV		99
27) 2-butanone	8.417	43	482225	17.691	ppbV		98
28) cis-1,2-dichloroethene	8.925	61	362599	25.038	ppbV		99
29) Ethyl Acetate	9.192	61	101057	24.009	ppbV		100
30) chloroform	9.267	83	385398	20.026	ppbV		99
31) Tetrahydrofuran	9.700	42	314771	18.820	ppbV		95
32) 1,2-dichloroethane	10.100	62	259193	24.030	ppbV		99
34) hexane	9.175	57	465309	15.928	ppbV		91
36) 1,1,1-trichloroethane	10.392	97	358964	18.464	ppbV		98
37) benzene	10.920	78	821616	14.145	ppbV		100
38) carbon tetrachloride	11.093	117	302844	17.085	ppbV		93
39) cyclohexane	11.240	56	502237	15.644	ppbV		98
40) Dibromomethane	11.840	93	275067	18.630	ppbV	#	97
41) 1,2-dichloropropane	11.867	63	346107	17.907	ppbV		98
42) bromodichloromethane	12.100	83	403911	16.714	ppbV		98
43) 1,4-dioxane	12.133	88	197197	17.557	ppbV		97
44) trichloroethene	12.147	130	369056	18.960	ppbV		97
45) 2,2,4-trimethylpentane	12.193	57	1545479	15.797	ppbV		99
46) heptane	12.507	43	519790	13.301	ppbV		98
47) cis-1,3-dichloropropene	13.158	75	398827	15.844	ppbV		99
48) 4-methyl-2-pentanone	13.192	43	586481	13.019	ppbV		98
49) trans-1,3-dichloropropene	13.783	75	307602	16.402	ppbV		99
50) 1,1,2-trichloroethane	13.983	97	348755	18.596	ppbV		97
52) toluene	14.292	91	1057970	19.066	ppbV		99
54) 2-hexanone	14.567	43	534768	15.135	ppbV		99
55) dibromochloromethane	14.733	129	440779	23.694	ppbV		99
56) 1,2-dibromoethane	14.983	107	482009	19.428	ppbV		100
57) tetrachloroethene	15.442	166	396671	20.492	ppbV		97
58) 1,1,1,2-tetrachloroethane	16.067	131	358274	21.076	ppbV		99
59) chlorobenzene	16.083	112	790264	17.482	ppbV		94
60) ethylbenzene	16.425	91	1379167	18.784	ppbV		97
61) m+p-xylene	16.592	91	2172981	37.860	ppbV		97
62) bromoform	16.658	173	381678	26.348	ppbV		99
63) styrene	16.908	104	881029	19.571	ppbV		98
64) 1,1,2,2-tetrachloroethane	17.000	83	736701	17.557	ppbV		100
65) o-xylene	17.008	91	1076204	18.150	ppbV		97
66) 1,2,3-Trichloropropane	17.117	75	542065	16.188	ppbV		99
68) isopropylbenzene	17.517	105	1360017	17.734	ppbV		100
69) Bromobenzene	17.592	77	712822	16.256	ppbV		97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547525_Ev2.D
Acq On : 27 Apr 2024 2:02 AM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD020
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 09:00:31 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:59:33 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\r1547523_Ev2.D
Sub List : Default - All compounds listed

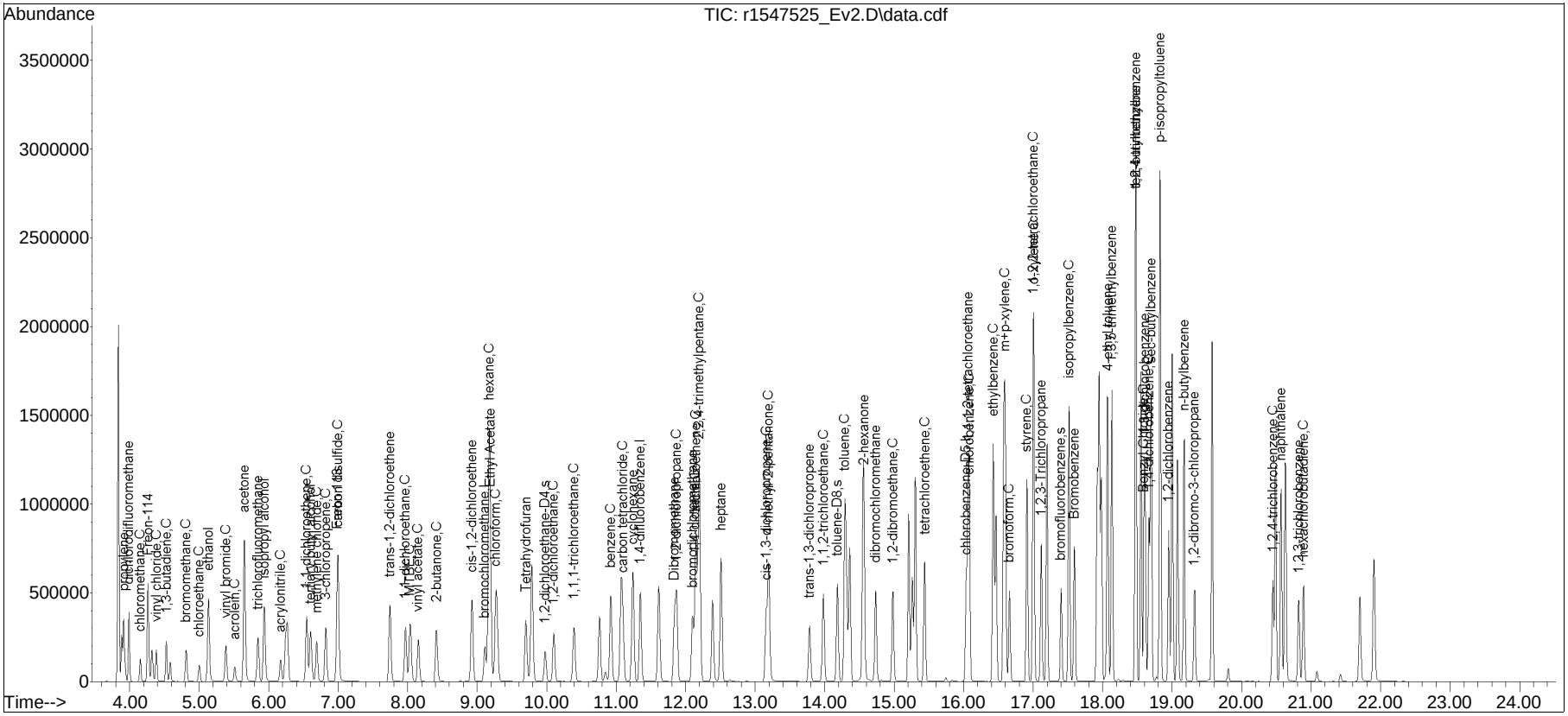
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.075	105	1453818	18.950	ppbV	98
71) 1,3,5-trimethylbenzene	18.133	105	1207094	15.557	ppbV	98
72) tert-butylbenzene	18.475	119	1207191	18.146	ppbV	98
73) 1,2,4-trimethylbenzene	18.475	105	1196473	18.087	ppbV	99
74) Benzyl Chloride	18.592	91	807017	22.727	ppbV	100
75) 1,3-dichlorobenzene	18.608	146	862295	20.336	ppbV	99
76) 1,4-dichlorobenzene	18.667	146	844461	20.024	ppbV	99
77) sec-butylbenzene	18.700	105	1749007	17.810	ppbV	92
78) p-isopropyltoluene	18.825	119	1380472	18.741	ppbV	99
79) 1,2-dichlorobenzene	18.950	146	811279	20.029	ppbV	97
80) n-butylbenzene	19.175	91	1414898	19.187	ppbV	90
81) 1,2-dibromo-3-chloropr...	19.317	75	269511	18.799	ppbV	96
82) 1,2,4-trichlorobenzene	20.450	180	600102	23.594	ppbV	99
83) naphthalene	20.567	128	1650203	17.511	ppbV	99
84) 1,2,3-trichlorobenzene	20.825	180	533305	22.945	ppbV	97
85) hexachlorobutadiene	20.892	225	469341	20.845	ppbV	98

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

Sub List : Default - All compounds listed4\04\0426SIM_I\r1547523_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547525_Ev2.D
Acq On : 27 Apr 2024 2:02 AM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD020
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

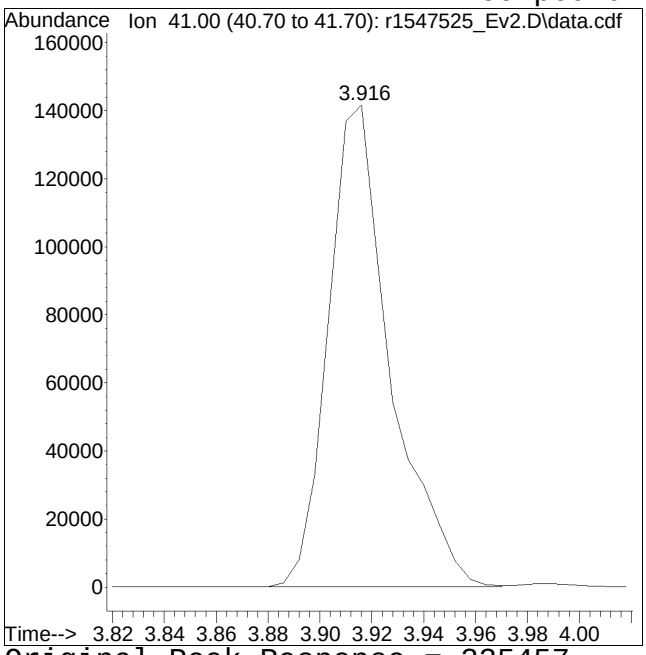
Quant Time: Apr 27 09:00:31 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:59:33 2024
Response via : Initial Calibration



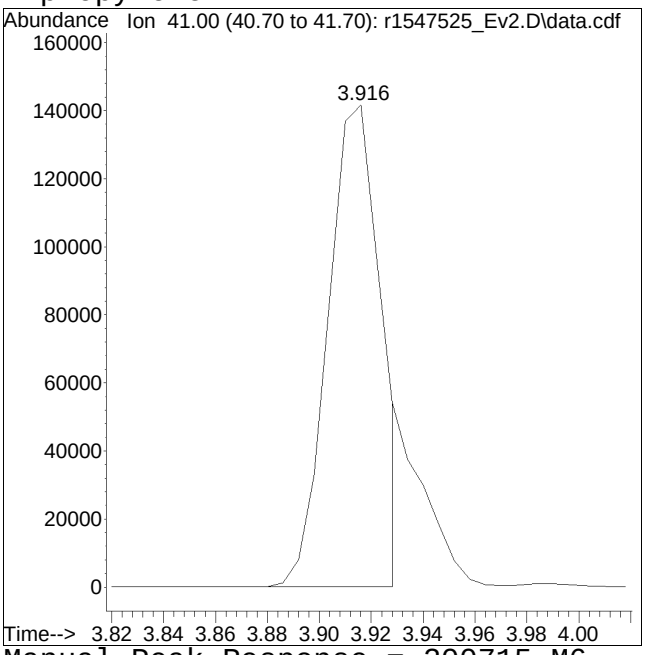
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1547525_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 4/27/2020 0:2: 2 Instrument :
Sample : ITO15-SIMSTD020 Quant Date : 4/27/2024 9:00 am

Compound #2: propylene



Original Peak Response = 235457



Manual Peak Response = 200715 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547526_Ev2.D
Acq On : 27 Apr 2024 2:43 AM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD050
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 09:00:35 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:59:33 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\r1547523_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.117	49	200416	10.000	ppbV	0.00
Standard Area = 201665			Recovery = 99.38%			
33) 1,4-difluorobenzene	11.353	114	654299	10.000	ppbV	0.00
Standard Area = 630510			Recovery = 103.77%			
51) chlorobenzene-D5	16.042	54	93105	10.000	ppbV	# 0.00
Standard Area = 101854			Recovery = 91.41%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.983	65	148235	10.690	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.90%			
53) toluene-D8	14.183	98	619557	13.141	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 131.41%#			
67) bromofluorobenzene	17.400	95	432421	12.740	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 127.40%			
Target Compounds						Qvalue
2) propylene	3.910	41	554484M6	43.407	ppbV	
3) dichlorodifluoromethane	3.988	85	869943	47.490	ppbV	100
4) chloromethane	4.150	50	349259	33.390	ppbV	98
5) Freon-114	4.258	85	861855	41.185	ppbV	98
6) vinyl chloride	4.384	62	521339	49.438	ppbV	98
7) 1,3-butadiene	4.528	54	316366	35.192	ppbV	91
8) bromomethane	4.810	94	412698	51.891	ppbV	100
9) chloroethane	5.002	64	274703	54.608	ppbV	98
10) ethanol	5.140	31	1382533	150.788	ppbV #	83
11) vinyl bromide	5.383	106	489117	64.132	ppbV	97
12) acrolein	5.510	56	188067	39.898	ppbV	98
13) acetone	5.650	43	2613673	223.715	ppbV	91
14) trichlorofluoromethane	5.847	101	750444	61.607	ppbV	97
15) isopropyl alcohol	5.940	45	1660505	100.541	ppbV	98
16) acrylonitrile	6.173	53	323429	38.300	ppbV	98
17) 1,1-dichloroethene	6.546	61	964146	63.673	ppbV	98
18) tertiary butyl alcohol	6.606	59	1197771	59.358	ppbV	98
19) methylene chloride	6.690	49	629875	40.044	ppbV	99
20) 3-chloropropene	6.822	41	915965	53.929	ppbV	97
21) carbon disulfide	6.996	76	1760603	55.928	ppbV	98
22) Freon 113	6.990	101	1185585	60.707	ppbV	95
23) trans-1,2-dichloroethene	7.742	61	1021248	67.124	ppbV	98
24) 1,1-dichloroethane	7.967	63	1270607	65.011	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547526_Ev2.D
Acq On : 27 Apr 2024 2:43 AM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD050
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 09:00:35 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:59:33 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\r1547523_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	8.033	73	1440158	52.082	ppbV		99
26) vinyl acetate	8.158	43	1313604	51.250	ppbV		99
27) 2-butanone	8.417	43	1314906	48.117	ppbV		96
28) cis-1,2-dichloroethene	8.925	61	959307	66.074	ppbV		98
29) Ethyl Acetate	9.192	61	264074	62.580	ppbV		90
30) chloroform	9.267	83	984331	51.018	ppbV		99
31) Tetrahydrofuran	9.700	42	866867	51.697	ppbV		93
32) 1,2-dichloroethane	10.108	62	676924	62.600	ppbV		98
34) hexane	9.175	57	1138488	38.264	ppbV		92
36) 1,1,1-trichloroethane	10.400	97	947303	47.840	ppbV		94
37) benzene	10.927	78	2183558	36.910	ppbV		97
38) carbon tetrachloride	11.100	117	803432	44.503	ppbV		97
39) cyclohexane	11.240	56	1291248	39.488	ppbV		97
40) Dibromomethane	11.840	93	717891	47.738	ppbV	#	93
41) 1,2-dichloropropane	11.873	63	915716	46.516	ppbV		96
42) bromodichloromethane	12.100	83	1062440	43.164	ppbV		99
43) 1,4-dioxane	12.133	88	523105	45.727	ppbV		94
44) trichloroethene	12.153	130	967612	48.807	ppbV		98
45) 2,2,4-trimethylpentane	12.200	57	3839219	38.530	ppbV		96
46) heptane	12.513	43	1368688	34.387	ppbV		95
47) cis-1,3-dichloropropene	13.158	75	1098450	42.845	ppbV		98
48) 4-methyl-2-pentanone	13.192	43	1583306	34.509	ppbV		96
49) trans-1,3-dichloropropene	13.783	75	854616	44.741	ppbV		99
50) 1,1,2-trichloroethane	13.983	97	927880	48.576	ppbV		97
52) toluene	14.292	91	2706202	51.130	ppbV		100
54) 2-hexanone	14.567	43	1442292	42.796	ppbV		96
55) dibromochloromethane	14.733	129	1165794	65.702	ppbV		97
56) 1,2-dibromoethane	14.983	107	1299484	54.912	ppbV		99
57) tetrachloroethene	15.442	166	1040655	56.362	ppbV		97
58) 1,1,1,2-tetrachloroethane	16.067	131	913560	56.343	ppbV		99
59) chlorobenzene	16.083	112	2073808	48.098	ppbV		95
60) ethylbenzene	16.425	91	3521172	50.280	ppbV		94
61) m+p-xylene	16.592	91	5365109	98.004	ppbV		93
62) bromoform	16.658	173	1028602	74.444	ppbV		99
63) styrene	16.917	104	2343238	54.572	ppbV		96
64) 1,1,2,2-tetrachloroethane	17.000	83	1788365	44.684	ppbV		99
65) o-xylene	17.008	91	2581684	45.647	ppbV		92
66) 1,2,3-Trichloropropane	17.117	75	1434728	44.920	ppbV		98
68) isopropylbenzene	17.517	105	3540768	48.404	ppbV		100
69) Bromobenzene	17.592	77	1850850	44.252	ppbV		95

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547526_Ev2.D
Acq On : 27 Apr 2024 2:43 AM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD050
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 09:00:35 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:59:33 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\r1547523_Ev2.D
Sub List : Default - All compounds listed

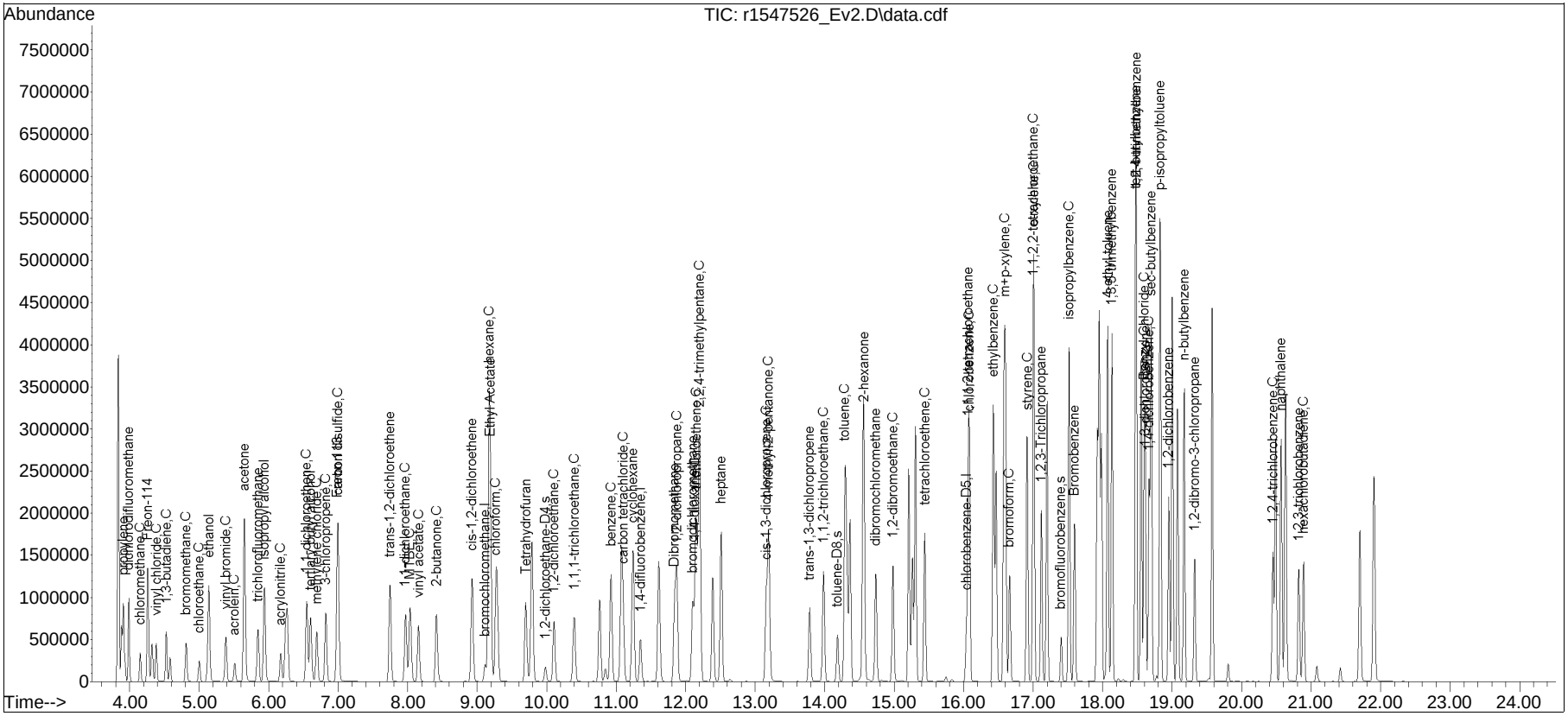
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4-ethyl toluene	18.075	105	3769046	51.506	ppbV		98
71) 1,3,5-trimethylbenzene	18.133	105	3149875	42.562	ppbV		97
72) tert-butylbenzene	18.475	119	2889920	45.542	ppbV		97
73) 1,2,4-trimethylbenzene	18.483	105	2892894	45.848	ppbV		92
74) Benzyl Chloride	18.600	91	2240349	66.146	ppbV		92
75) 1,3-dichlorobenzene	18.617	146	2230279	55.145	ppbV		96
76) 1,4-dichlorobenzene	18.667	146	2224276	55.296	ppbV		98
77) sec-butylbenzene	18.700	105	4467160	47.692	ppbV		92
78) p-isopropyltoluene	18.825	119	2942533	41.881	ppbV		99
79) 1,2-dichlorobenzene	18.950	146	2156947	55.830	ppbV		95
80) n-butylbenzene	19.175	91	3536457	50.278	ppbV	#	86
81) 1,2-dibromo-3-chloropr...	19.325	75	745728	54.536	ppbV		94
82) 1,2,4-trichlorobenzene	20.450	180	1687922	69.577	ppbV		98
83) naphthalene	20.567	128	4547819	50.595	ppbV		97
84) 1,2,3-trichlorobenzene	20.825	180	1554523	70.120	ppbV		98
85) hexachlorobutadiene	20.892	225	1268762	59.079	ppbV		96

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

Sub List : Default - All compounds listed4\04\0426SIM_I\r1547523_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547526_Ev2.D
Acq On : 27 Apr 2024 2:43 AM
Operator : AIRLAB15:JMB
Sample : ITO15-SIMSTD050
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

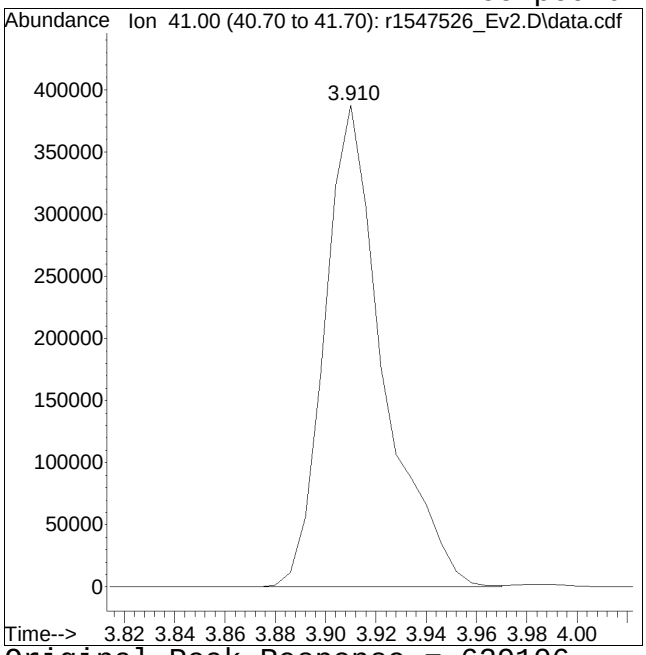
Quant Time: Apr 27 09:00:35 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 08:59:33 2024
Response via : Initial Calibration



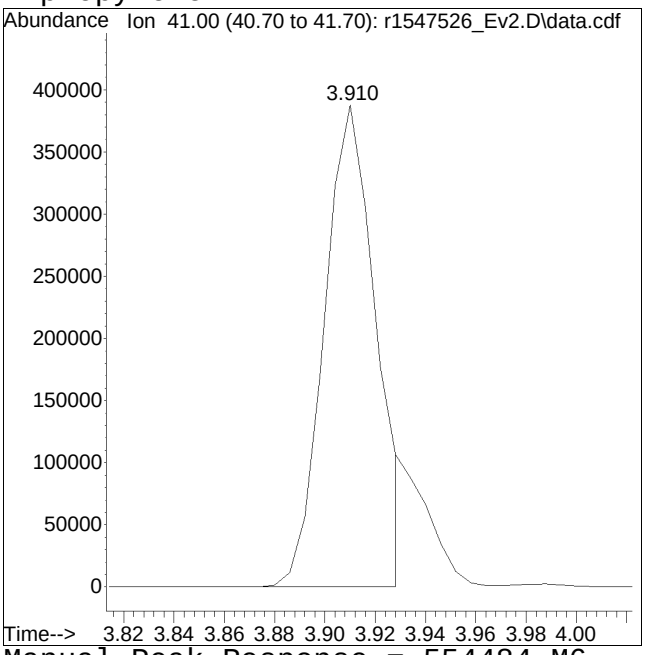
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1547526_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 4/27/2020 0:2: 3 Instrument :
Sample : ITO15-SIMSTD050 Quant Date : 4/27/2024 9:00 am

Compound #2: propylene



Original Peak Response = 629106



Manual Peak Response = 554484 M6

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

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547531_Ev2.D
Acq On : 27 Apr 2024 11:06 AM
Operator : AIRLAB15:JMB
Sample : CTO15-SIMSTD5.0
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 13:06:52 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 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	89	0.00
2		propylene	0.782	0.731	6.5	89	0.00
3		dichlorodifluoromethane	1.118	1.023	8.5	66	0.00
4	C	chloromethane	0.422	0.380	10.0	68	0.00
5		Freon-114	1.102	1.155	-4.8	78	0.00
6	C	vinyl chloride	0.625	0.575	8.0	65	0.00
7	C	1,3-butadiene	0.354	0.365	-3.1	71	0.00
8	C	bromomethane	0.505	0.477	5.5	69	0.00
9	C	chloroethane	0.332	0.311	6.3	70	0.00
10		ethanol	0.367	0.313	14.7	64	0.00
11	C	vinyl bromide	0.547	0.534	2.4	73	0.00
12	C	acrolein	0.216	0.190	12.0	67	0.00
13		acetone	0.634	0.700	-10.4	86	0.00
14		trichlorofluoromethane	0.966	0.854	11.6	68	0.00
15		isopropyl alcohol	0.769	0.766	0.4	80	0.00
16	C	acrylonitrile	0.348	0.360	-3.4	70	0.00
17	C	1,1-dichloroethene	1.078	1.116	-3.5	75	0.00
18		tertiary butyl alcohol	1.331	1.319	0.9	78	0.00
19	C	methylene chloride	0.759	0.712	6.2	73	0.00
20	C	3-chloropropene	0.972	1.130	-16.3	91	0.00
21	C	carbon disulfide	1.915	1.970	-2.9	78	0.00
22		Freon 113	1.444	1.439	0.3	81	0.00
23		trans-1,2-dichloroethene	1.108	1.120	-1.1	75	0.00
24	C	1,1-dichloroethane	1.398	1.446	-3.4	77	0.00
25	C	MTBE	1.515	1.750	-15.5	85	0.00
26	C	vinyl acetate	1.352	1.349	0.2	78	0.00
27	C	2-butanone	1.433	1.524	-6.4	78	0.00
28		cis-1,2-dichloroethene	1.041	1.079	-3.7	74	0.00
29		Ethyl Acetate	0.293	0.310	-5.8	80	0.00
30	C	chloroform	1.180	1.131	4.2	71	0.00
31		Tetrahydrofuran	0.898	0.990	-10.2	83	0.00
32	C	1,2-dichloroethane	0.797	0.750	5.9	70	0.00
33	I	1,4-difluorobenzene	1.000	1.000	0.0	99	0.00
34	C	hexane	0.453	0.405	10.6	73	0.00
35	s	1,2-dichloroethane-D4	0.235	0.224	4.7	91	0.00
36	C	1,1,1-trichloroethane	0.338	0.304	10.1	73	0.00
37	C	benzene	0.793	0.705	11.1	75	0.00
38	C	carbon tetrachloride	0.287	0.256	10.8	73	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547531_Ev2.D
Acq On : 27 Apr 2024 11:06 AM
Operator : AIRLAB15:JMB
Sample : CTO15-SIMSTD5.0
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 13:06:52 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 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)
39		cyclohexane	0.482	0.433	10.2	74	0.00
40		Dibromomethane	0.255	0.226	11.4	72	0.00
41	C	1,2-dichloropropane	0.320	0.299	6.6	77	0.00
42		bromodichloromethane	0.371	0.351	5.4	76	0.00
43	C	1,4-dioxane	0.177	0.176	0.6	79	0.00
44	C	trichloroethene	0.343	0.318	7.3	75	0.00
45	C	2,2,4-trimethylpentane	1.499	1.382	7.8	74	0.00
46		heptane	0.485	0.489	-0.8	83	0.00
47	C	cis-1,3-dichloropropene	0.329	0.351	-6.7	80	0.00
48	C	4-methyl-2-pentanone	0.537	0.548	-2.0	84	0.00
49		trans-1,3-dichloropropene	0.234	0.261	-11.5	79	0.00
50	C	1,1,2-trichloroethane	0.323	0.307	5.0	78	0.00
51	I	chlorobenzene-D5	1.000	1.000	0.0	85	0.00
52	C	toluene	6.384	6.568	-2.9	74	0.00
53	s	toluene-D8	5.904	6.824	-15.6	99	0.00
54		2-hexanone	2.885	3.513	-21.8	82	0.00
55		dibromochloromethane	2.341	2.872	-22.7	81	0.00
56	C	1,2-dibromoethane	2.606	3.116	-19.6	80	0.00
57	C	tetrachloroethene	2.372	2.522	-6.3	76	0.00
58		1,1,1,2-tetrachloroethane	2.046	2.170	-6.1	75	0.00
59	C	chlorobenzene	4.666	5.123	-9.8	78	0.00
60	C	ethylbenzene	7.937	8.551	-7.7	73	0.00
61	C	m+p-xylene	6.218	6.881	-10.7	74	0.00
62	C	bromoform	1.918	2.450	-27.7	82	0.00
63	C	styrene	4.479	5.695	-27.1	80	0.00
64	C	1,1,2,2-tetrachloroethane	4.384	4.711	-7.5	74	0.00
65	C	o-xylene	6.285	7.023	-11.7	75	0.00
66		1,2,3-Trichloropropane	3.092	3.373	-9.1	75	0.00
67	s	bromofluorobenzene	4.152	4.749	-14.4	93	0.00
68	C	isopropylbenzene	8.017	9.020	-12.5	81	0.00
69		Bromobenzene	4.129	4.473	-8.3	75	0.00
70		4-ethyl toluene	7.769	9.677	-24.6	81	0.00
71		1,3,5-trimethylbenzene	6.995	9.055	-29.4	79	0.00
72		tert-butylbenzene	7.253	7.814	-7.7	75	0.00
73		1,2,4-trimethylbenzene	6.556	8.068	-23.1	79	0.00
74	C	Benzyl Chloride	3.698	4.376	-18.3	76	0.00
75		1,3-dichlorobenzene	4.683	5.605	-19.7	77	0.00
76	C	1,4-dichlorobenzene	4.667	5.647	-21.0	81	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547531_Ev2.D
Acq On : 27 Apr 2024 11:06 AM
Operator : AIRLAB15:JMB
Sample : CTO15-SIMSTD5.0
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 13:06:52 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 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)
77		sec-butylbenzene	10.261	11.541	-12.5	79	0.00
78		p-isopropyltoluene	7.957	8.146	-2.4	72	0.00
79		1,2-dichlorobenzene	4.563	5.372	-17.7	82	0.02
80		n-butylbenzene	8.327	9.488	-13.9	79	0.03
81		1,2-dibromo-3-chloropropane	1.387	1.701	-22.6	80	0.03
82	C	1,2,4-trichlorobenzene	3.035	3.702	-22.0	76	0.05
83		naphthalene	8.367	10.509	-25.6	79	0.05
84		1,2,3-trichlorobenzene	2.781	3.490	-25.5	84	0.06
85	C	hexachlorobutadiene	2.767	3.110	-12.4	76	0.05

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547531_Ev2.D
Acq On : 27 Apr 2024 11:06 AM
Operator : AIRLAB15:JMB
Sample : CTO15-SIMSTD5.0
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 13:06:52 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\r1547523_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.108	49	180267	10.000	ppbV	0.00
Standard Area = 201665			Recovery = 89.39%			
33) 1,4-difluorobenzene	11.347	114	625444	10.000	ppbV	0.00
Standard Area = 630510			Recovery = 99.20%			
51) chlorobenzene-D5	16.033	54	86221	10.000	ppbV	0.00
Standard Area = 101854			Recovery = 84.65%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.975	65	140359	9.538	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.38%			
53) toluene-D8	14.183	98	588355	11.558	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.58%			
67) bromofluorobenzene	17.400	95	409446	11.437	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 114.37%			
Target Compounds						Qvalue
2) propylene	3.910	41	65909M6	4.677	ppbV	
3) dichlorodifluoromethane	3.988	85	92244	4.577	ppbV	99
4) chloromethane	4.150	50	34295	4.505	ppbV	97
5) Freon-114	4.258	85	104083	5.239	ppbV	95
6) vinyl chloride	4.384	62	51792	4.598	ppbV	97
7) 1,3-butadiene	4.528	54	32909	5.153	ppbV	87
8) bromomethane	4.810	94	43009	4.727	ppbV	99
9) chloroethane	5.002	64	28004	4.683	ppbV	97
10) ethanol	5.134	31	141273	21.354	ppbV #	81
11) vinyl bromide	5.383	106	48170	4.885	ppbV	94
12) acrolein	5.513	56	17091	4.385	ppbV	98
13) acetone	5.650	43	315502	27.599	ppbV	89
14) trichlorofluoromethane	5.843	101	76929	4.417	ppbV	98
15) isopropyl alcohol	5.940	45	172574	12.450	ppbV	97
16) acrylonitrile	6.173	53	32469	5.181	ppbV	97
17) 1,1-dichloroethene	6.546	61	100551	5.175	ppbV	96
18) tertiary butyl alcohol	6.618	59	118873	4.953	ppbV	99
19) methylene chloride	6.690	49	64188	4.693	ppbV	98
20) 3-chloropropene	6.822	41	101838	5.809	ppbV	96
21) carbon disulfide	6.996	76	177588	5.146	ppbV	99
22) Freon 113	6.990	101	129709	4.982	ppbV	97
23) trans-1,2-dichloroethene	7.742	61	100977	5.056	ppbV	96
24) 1,1-dichloroethane	7.967	63	130370	5.175	ppbV	99

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547531_Ev2.D
Acq On : 27 Apr 2024 11:06 AM
Operator : AIRLAB15:JMB
Sample : CTO15-SIMSTD5.0
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 13:06:52 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\r1547523_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	8.042	73	157764	5.777	ppbV		96
26) vinyl acetate	8.150	43	121610	4.988	ppbV		98
27) 2-butanone	8.417	43	137401	5.317	ppbV		98
28) cis-1,2-dichloroethene	8.925	61	97265	5.182	ppbV		96
29) Ethyl Acetate	9.192	61	27947	5.293	ppbV		88
30) chloroform	9.267	83	101913	4.793	ppbV		99
31) Tetrahydrofuran	9.708	42	89234	5.515	ppbV		95
32) 1,2-dichloroethane	10.100	62	67573	4.701	ppbV		98
34) hexane	9.175	57	126787	4.470	ppbV		90
36) 1,1,1-trichloroethane	10.392	97	95092	4.499	ppbV		98
37) benzene	10.920	78	220515	4.448	ppbV		97
38) carbon tetrachloride	11.093	117	80083	4.461	ppbV		94
39) cyclohexane	11.240	56	135523	4.492	ppbV		96
40) Dibromomethane	11.840	93	70573	4.424	ppbV	#	93
41) 1,2-dichloropropane	11.867	63	93637	4.678	ppbV		98
42) bromodichloromethane	12.093	83	109842	4.731	ppbV		98
43) 1,4-dioxane	12.140	88	55036	4.960	ppbV		95
44) trichloroethene	12.147	130	99349	4.636	ppbV		97
45) 2,2,4-trimethylpentane	12.193	57	432132	4.610	ppbV		97
46) heptane	12.507	43	152869	5.040	ppbV		93
47) cis-1,3-dichloropropene	13.158	75	109775	5.342	ppbV		98
48) 4-methyl-2-pentanone	13.200	43	171338	5.099	ppbV		95
49) trans-1,3-dichloropropene	13.783	75	81760	5.581	ppbV		99
50) 1,1,2-trichloroethane	13.983	97	95985	4.752	ppbV		95
52) toluene	14.292	91	283149	5.144	ppbV		100
54) 2-hexanone	14.567	43	151427	6.087	ppbV		91
55) dibromochloromethane	14.733	129	123802	6.133	ppbV		100
56) 1,2-dibromoethane	14.983	107	134321	5.979	ppbV		98
57) tetrachloroethene	15.442	166	108708	5.315	ppbV		97
58) 1,1,1,2-tetrachloroethane	16.067	131	93571	5.304	ppbV		99
59) chlorobenzene	16.083	112	220842	5.490	ppbV		93
60) ethylbenzene	16.425	91	368653	5.387	ppbV		96
61) m+p-xylene	16.592	91	593274	11.067	ppbV		95
62) bromoform	16.658	173	105636	6.389	ppbV		99
63) styrene	16.908	104	245493	6.356	ppbV		98
64) 1,1,2,2-tetrachloroethane	17.000	83	203098	5.373	ppbV		99
65) o-xylene	17.008	91	302763	5.587	ppbV		96
66) 1,2,3-Trichloropropane	17.117	75	145414	5.454	ppbV		99
68) isopropylbenzene	17.517	105	388859	5.626	ppbV		97
69) Bromobenzene	17.592	77	192836	5.416	ppbV		97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547531_Ev2.D
Acq On : 27 Apr 2024 11:06 AM
Operator : AIRLAB15:JMB
Sample : CTO15-SIMSTD5.0
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 27 13:06:52 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\r1547523_Ev2.D
Sub List : Default - All compounds listed

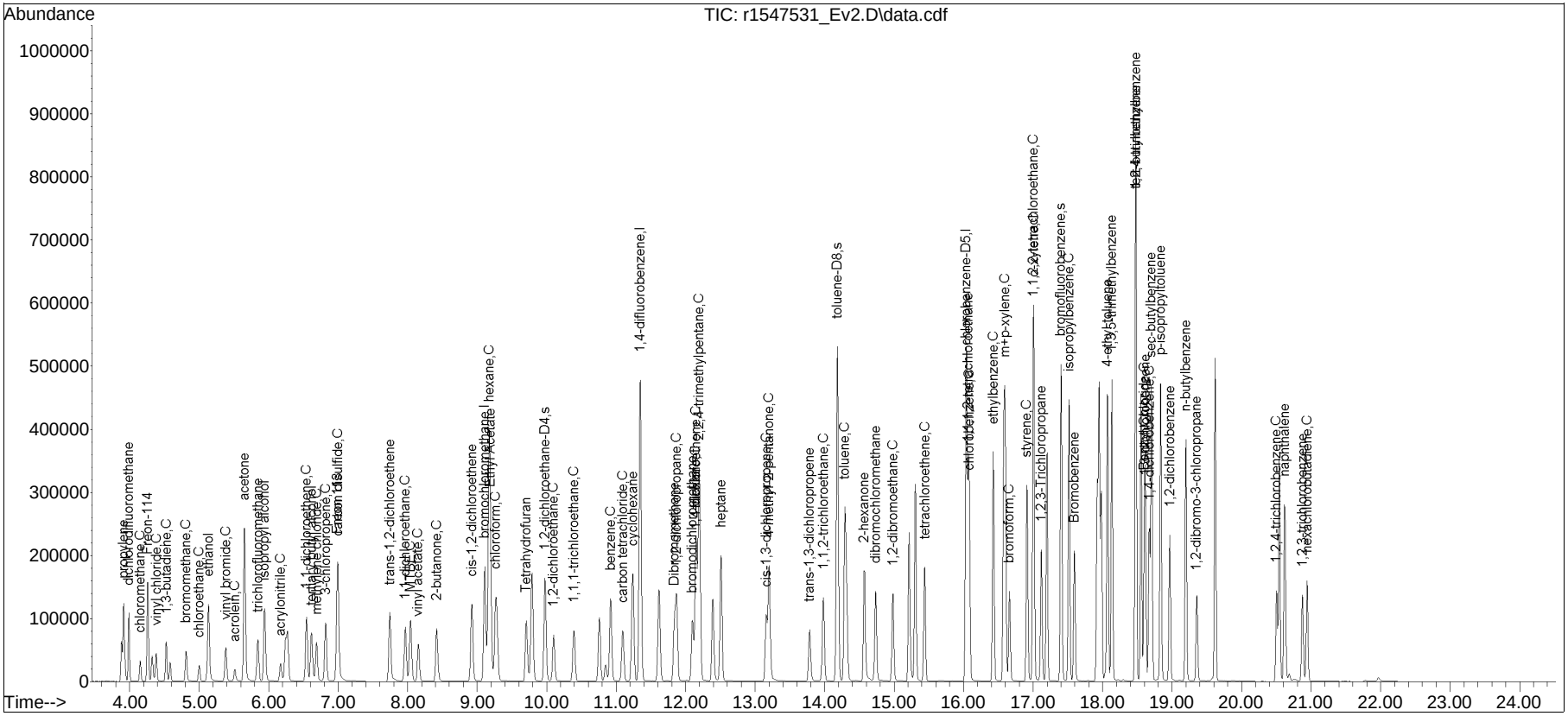
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.067	105	417166	6.228	ppbV	97
71) 1,3,5-trimethylbenzene	18.133	105	390361	6.472	ppbV	96
72) tert-butylbenzene	18.475	119	336846	5.386	ppbV	99
73) 1,2,4-trimethylbenzene	18.475	105	347813	6.153	ppbV	98
74) Benzyl Chloride	18.600	91	188641	5.916	ppbV	98
75) 1,3-dichlorobenzene	18.617	146	241623	5.984	ppbV	95
76) 1,4-dichlorobenzene	18.675	146	243453	6.050	ppbV	95
77) sec-butylbenzene	18.700	105	497546	5.624	ppbV	99
78) p-isopropyltoluene	18.833	119	351165	5.119	ppbV	100
79) 1,2-dichlorobenzene	18.967	146	231592	5.886	ppbV	99
80) n-butylbenzene	19.200	91	409032	5.697	ppbV	92
81) 1,2-dibromo-3-chloropr...	19.350	75	73325	6.130	ppbV	98
82) 1,2,4-trichlorobenzene	20.500	180	159593	6.099	ppbV	98
83) naphthalene	20.617	128	453060	6.280	ppbV	99
84) 1,2,3-trichlorobenzene	20.875	180	150448	6.275	ppbV	99
85) hexachlorobutadiene	20.942	225	134087	5.621	ppbV	99

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

Sub List : Default - All compounds listed4\04\0426SIM_I\r1547523_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\
Data File : r1547531_Ev2.D
Acq On : 27 Apr 2024 11:06 AM
Operator : AIRLAB15:JMB
Sample : CTO15-SIMSTD5.0
Misc : WG1914197
ALS Vial : 0 Sample Multiplier: 1

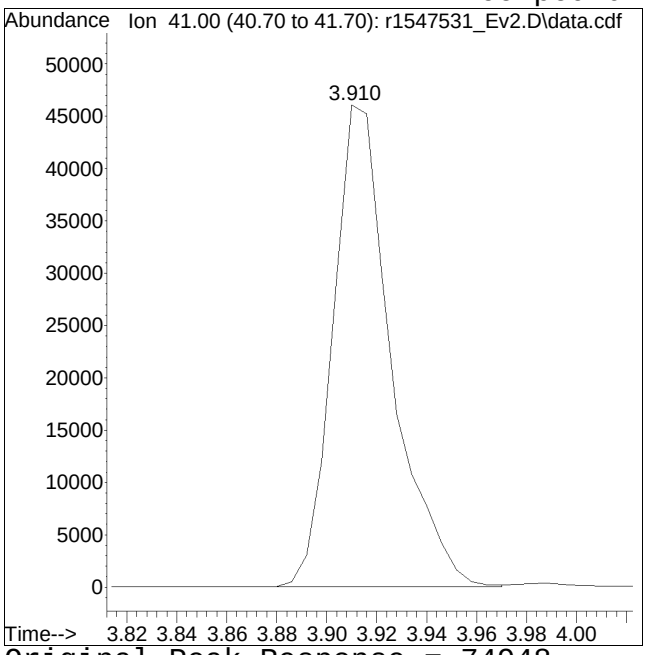
Quant Time: Apr 27 13:06:52 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\04\0426SIM_I\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 2024
Response via : Initial Calibration



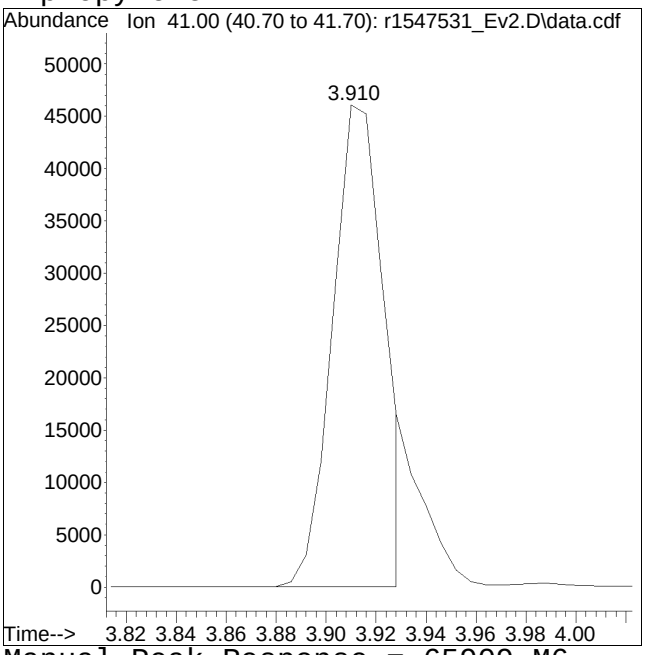
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1547531_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 4/27/2020 0:1: 6 Instrument :
Sample : CTO15-SIMSTD5.0 Quant Date : 4/27/2024 1:06 pm

Compound #2: propylene



Original Peak Response = 74948



Manual Peak Response = 65909 M6

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

Continuing Calibration

Calibration Verification Summary
Form 7
Air Volatiles

Client	: AKRF, Inc.		**Lab Number**	: L2432670	
Project Name	: BUD NORTH		**Project Number**	: 200112	
Instrument ID	: AIRLAB15		**Calibration Date**	: 06/18/24 15:11	
Lab File ID	: R1548846_EV2		**Init. Calib. Date(s)**	: 04/26/24	04/27/24
Sample No	: WG1936046-2		**Init. Calib. Times**	: 20:31	02:43
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	93	.03
propylene	0.782	0.651	-	16.8	30	82	.03
dichlorodifluoromethane	1.118	0.99	-	11.4	30	66	.03
chloromethane	0.422	0.445	-	-5.5	30	83	.03
Freon-114	1.102	1.167	-	-5.9	30	81	.03
vinyl chloride	0.625	0.602	-	3.7	30	70	.02
1,3-butadiene	0.354	0.415	-	-17.2	30	84	.03
bromomethane	0.505	0.465	-	7.9	30	70	.03
chloroethane	0.332	0.302	-	9	30	71	.03
ethanol	0.367	0.426	-	-16.1	30	90	.04
vinyl bromide	0.547	0.426	-	22.1	30	60	.03
acrolein	0.216	0.208	-	3.7	30	77	.03
acetone	0.634	0.687	-	-8.4	30	88	.03
trichlorofluoromethane	0.966	0.843	-	12.7	30	69	.03
isopropyl alcohol	0.769	0.736	-	4.3	30	80	.03
acrylonitrile	0.348	0.49	-	-40.8*	30	99	.03
1,1-dichloroethene	1.078	1.047	-	2.9	30	74	.03
tertiary butyl alcohol	1.331	1.117	-	16.1	30	69	.04
methylene chloride	0.759	0.739	-	2.6	30	79	.03
3-chloropropene	0.972	0.986	-	-1.4	30	83	.03
carbon disulfide	1.915	1.582	-	17.4	30	65	.03
Freon 113	1.444	1.172	-	18.8	30	69	.03
trans-1,2-dichloroethene	1.108	0.999	-	9.8	30	69	.03
1,1-dichloroethane	1.398	1.292	-	7.6	30	71	.02
MTBE	1.515	1.349	-	11	30	68	.03
vinyl acetate	1.352	1.17	-	13.5	30	70	.03
2-butanone	1.433	1.371	-	4.3	30	73	.03
cis-1,2-dichloroethene	1.041	1.002	-	3.7	30	72	.02
Ethyl Acetate	0.293	0.276	-	5.8	30	74	.03
chloroform	1.18	1.069	-	9.4	30	69	.02
Tetrahydrofuran	0.898	0.865	-	3.7	30	76	.03
1,2-dichloroethane	0.797	0.73	-	8.4	30	71	.03
1,4-difluorobenzene	1	1	-	0	30	85	.02
hexane	0.453	0.474	-	-4.6	30	73	.02
1,1,1-trichloroethane	0.338	0.312	-	7.7	30	64	.02
benzene	0.793	0.751	-	5.3	30	68	.03
carbon tetrachloride	0.287	0.267	-	7	30	65	.03
cyclohexane	0.482	0.507	-	-5.2	30	74	.02
Dibromomethane	0.255	0.24	-	5.9	30	65	.02
1,2-dichloropropane	0.32	0.327	-	-2.2	30	71	.03
bromodichloromethane	0.371	0.384	-	-3.5	30	71	.02
1,4-dioxane	0.177	0.189	-	-6.8	30	72	.03
trichloroethene	0.343	0.325	-	5.2	30	65	.03

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: AKRF, Inc.		**Lab Number**	: L2432670	
Project Name	: BUD NORTH		**Project Number**	: 200112	
Instrument ID	: AIRLAB15		**Calibration Date**	: 06/18/24 15:11	
Lab File ID	: R1548846_EV2		**Init. Calib. Date(s)**	: 04/26/24	04/27/24
Sample No	: WG1936046-2		**Init. Calib. Times**	: 20:31	02:43
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
2,2,4-trimethylpentane	1.499	1.64	-	-9.4	30	75	.02
heptane	0.485	0.54	-	-11.3	30	78	.02
cis-1,3-dichloropropene	0.329	0.349	-	-6.1	30	68	.03
4-methyl-2-pentanone	0.537	0.605	-	-12.7	30	79	.03
trans-1,3-dichloropropene	0.234	0.258	-	-10.3	30	66	.03
1,1,2-trichloroethane	0.323	0.316	-	2.2	30	69	.02
chlorobenzene-D5	1	1	-	0	30	87	.02
toluene	6.384	5.832	-	8.6	30	67	.02
2-hexanone	2.885	3.154	-	-9.3	30	76	.03
dibromochloromethane	2.341	2.313	-	1.2	30	67	.02
1,2-dibromoethane	2.606	2.502	-	4	30	66	.02
tetrachloroethene	2.372	2.067	-	12.9	30	64	.02
1,1,1,2-tetrachloroethane	2.046	1.72	-	15.9	30	61	0
chlorobenzene	4.666	4.36	-	6.6	30	69	.02
ethylbenzene	7.937	7.506	-	5.4	30	66	.02
m+p-xylene	6.218	6.087	-	2.1	30	68	0
bromoform	1.918	1.865	-	2.8	30	65	.02
styrene	4.479	4.398	-	1.8	30	64	.02
1,1,2,2-tetrachloroethane	4.384	4.512	-	-2.9	30	73	.02
o-xylene	6.285	6.25	-	0.6	30	69	0
1,2,3-Trichloropropane	3.092	2.828	-	8.5	30	65	0
isopropylbenzene	8.017	6.826	-	14.9	30	63	0
Bromobenzene	4.129	3.771	-	8.7	30	66	0
4-ethyl toluene	7.769	7.339	-	5.5	30	64	.02
1,3,5-trimethylbenzene	6.995	7.209	-	-3.1	30	65	0
tert-butylbenzene	7.253	6.412	-	11.6	30	63	0
1,2,4-trimethylbenzene	6.556	6.424	-	2	30	65	.02
Benzyl Chloride	3.698	3.35	-	9.4	30	60	.02
1,3-dichlorobenzene	4.683	4.503	-	3.8	30	64	.02
1,4-dichlorobenzene	4.667	4.508	-	3.4	30	67	.02
sec-butylbenzene	10.261	8.699	-	15.2	30	61	.02
p-isopropyltoluene	7.957	7.023	-	11.7	30	64	.02
1,2-dichlorobenzene	4.563	3.404	-	25.4	30	54	.03
n-butylbenzene	8.327	7.834	-	5.9	30	67	.04
1,2-dibromo-3-chloropropan	1.387	1.356	-	2.2	30	66	.05
1,2,4-trichlorobenzene	3.035	2.831	-	6.7	30	60	.08
naphthalene	8.367	7.915	-	5.4	30	62	.08
1,2,3-trichlorobenzene	2.781	2.56	-	7.9	30	63	.09
hexachlorobutadiene	2.767	2.37	-	14.3	30	59	.08

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618SIM\
Data File : r1548846_Ev2.D
Acq On : 18 Jun 2024 3:11 PM
Operator : AIRLAB15:JMB
Sample : WG1936046-2,3,250,250
Misc : WG1936046,ICAL21075
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 15:46:02 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618SIM\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 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	93	0.03
2		propylene	0.782	0.651	16.8	82	0.03
3		dichlorodifluoromethane	1.118	0.990	11.4	66	0.03
4	C	chloromethane	0.422	0.445	-5.5	83	0.03
5		Freon-114	1.102	1.167	-5.9	81	0.03
6	C	vinyl chloride	0.625	0.602	3.7	70	0.02
7	C	1,3-butadiene	0.354	0.415	-17.2	84	0.03
8	C	bromomethane	0.505	0.465	7.9	70	0.03
9	C	chloroethane	0.332	0.302	9.0	71	0.03
10		ethanol	0.367	0.426	-16.1	90	0.04
11	C	vinyl bromide	0.547	0.426	22.1	60	0.03
12	C	acrolein	0.216	0.208	3.7	77	0.03
13		acetone	0.634	0.687	-8.4	88	0.03
14		trichlorofluoromethane	0.966	0.843	12.7	69	0.03
15		isopropyl alcohol	0.769	0.736	4.3	80	0.03
16	C	acrylonitrile	0.348	0.490	-40.8#	99	0.03
17	C	1,1-dichloroethene	1.078	1.047	2.9	74	0.03
18		tertiary butyl alcohol	1.331	1.117	16.1	69	0.04
19	C	methylene chloride	0.759	0.739	2.6	79	0.03
20	C	3-chloropropene	0.972	0.986	-1.4	83	0.03
21	C	carbon disulfide	1.915	1.582	17.4	65	0.03
22		Freon 113	1.444	1.172	18.8	69	0.03
23		trans-1,2-dichloroethene	1.108	0.999	9.8	69	0.03
24	C	1,1-dichloroethane	1.398	1.292	7.6	71	0.02
25	C	MTBE	1.515	1.349	11.0	68	0.03
26	C	vinyl acetate	1.352	1.170	13.5	70	0.03
27	C	2-butanone	1.433	1.371	4.3	73	0.03
28		cis-1,2-dichloroethene	1.041	1.002	3.7	72	0.02
29		Ethyl Acetate	0.293	0.276	5.8	74	0.03
30	C	chloroform	1.180	1.069	9.4	69	0.02
31		Tetrahydrofuran	0.898	0.865	3.7	76	0.03
32	C	1,2-dichloroethane	0.797	0.730	8.4	71	0.03
33	I	1,4-difluorobenzene	1.000	1.000	0.0	85	0.02
34	C	hexane	0.453	0.474	-4.6	73	0.02
36	C	1,1,1-trichloroethane	0.338	0.312	7.7	64	0.02
37	C	benzene	0.793	0.751	5.3	68	0.03
38	C	carbon tetrachloride	0.287	0.267	7.0	65	0.03
39		cyclohexane	0.482	0.507	-5.2	74	0.02

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618SIM\
Data File : r1548846_Ev2.D
Acq On : 18 Jun 2024 3:11 PM
Operator : AIRLAB15:JMB
Sample : WG1936046-2,3,250,250
Misc : WG1936046,ICAL21075
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 15:46:02 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618SIM\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 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)
40		Dibromomethane	0.255	0.240	5.9	65	0.02
41	C	1,2-dichloropropane	0.320	0.327	-2.2	71	0.03
42		bromodichloromethane	0.371	0.384	-3.5	71	0.02
43	C	1,4-dioxane	0.177	0.189	-6.8	72	0.03
44	C	trichloroethene	0.343	0.325	5.2	65	0.03
45	C	2,2,4-trimethylpentane	1.499	1.640	-9.4	75	0.02
46		heptane	0.485	0.540	-11.3	78	0.02
47	C	cis-1,3-dichloropropene	0.329	0.349	-6.1	68	0.03
48	C	4-methyl-2-pentanone	0.537	0.605	-12.7	79	0.03
49		trans-1,3-dichloropropene	0.234	0.258	-10.3	66	0.03
50	C	1,1,2-trichloroethane	0.323	0.316	2.2	69	0.02
51	I	chlorobenzene-D5	1.000	1.000	0.0	87	0.02
52	C	toluene	6.384	5.832	8.6	67	0.02
54		2-hexanone	2.885	3.154	-9.3	76	0.03
55		dibromochloromethane	2.341	2.313	1.2	67	0.02
56	C	1,2-dibromoethane	2.606	2.502	4.0	66	0.02
57	C	tetrachloroethene	2.372	2.067	12.9	64	0.02
58		1,1,1,2-tetrachloroethane	2.046	1.720	15.9	61	0.00
59	C	chlorobenzene	4.666	4.360	6.6	69	0.02
60	C	ethylbenzene	7.937	7.506	5.4	66	0.02
61	C	m+p-xylene	6.218	6.087	2.1	68	0.00
62	C	bromoform	1.918	1.865	2.8	65	0.02
63	C	styrene	4.479	4.398	1.8	64	0.02
64	C	1,1,2,2-tetrachloroethane	4.384	4.512	-2.9	73	0.02
65	C	o-xylene	6.285	6.250	0.6	69	0.00
66		1,2,3-Trichloropropane	3.092	2.828	8.5	65	0.00
68	C	isopropylbenzene	8.017	6.826	14.9	63	0.00
69		Bromobenzene	4.129	3.771	8.7	66	0.00
70		4-ethyl toluene	7.769	7.339	5.5	64	0.02
71		1,3,5-trimethylbenzene	6.995	7.209	-3.1	65	0.00
72		tert-butylbenzene	7.253	6.412	11.6	63	0.00
73		1,2,4-trimethylbenzene	6.556	6.424	2.0	65	0.02
74	C	Benzyl Chloride	3.698	3.350	9.4	60	0.02
75		1,3-dichlorobenzene	4.683	4.503	3.8	64	0.02
76	C	1,4-dichlorobenzene	4.667	4.508	3.4	67	0.02
77		sec-butylbenzene	10.261	8.699	15.2	61	0.02
78		p-isopropyltoluene	7.957	7.023	11.7	64	0.02
79		1,2-dichlorobenzene	4.563	3.404	25.4	54#	0.03

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618SIM\
Data File : r1548846_Ev2.D
Acq On : 18 Jun 2024 3:11 PM
Operator : AIRLAB15:JMB
Sample : WG1936046-2,3,250,250
Misc : WG1936046,ICAL21075
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 15:46:02 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618SIM\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 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)
80	n-butylbenzene	8.327	7.834	5.9	67	0.04
81	1,2-dibromo-3-chloropropane	1.387	1.356	2.2	66	0.05
82 C	1,2,4-trichlorobenzene	3.035	2.831	6.7	60	0.08
83	naphthalene	8.367	7.915	5.4	62	0.08
84	1,2,3-trichlorobenzene	2.781	2.560	7.9	63	0.09
85 C	hexachlorobutadiene	2.767	2.370	14.3	59#	0.08

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 1

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618SIM\
Data File : r1548846_Ev2.D
Acq On : 18 Jun 2024 3:11 PM
Operator : AIRLAB15:JMB
Sample : WG1936046-2,3,250,250
Misc : WG1936046,ICAL21075
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 15:46:02 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618SIM\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618SIM\r1548846_Ev2.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.133	49	187392	10.000	ppbV	0.03
Standard Area = 187392			Recovery = 100.00%			
33) 1,4-difluorobenzene	11.367	114	532871	10.000	ppbV	0.02
Standard Area = 532871			Recovery = 100.00%			
51) chlorobenzene-D5	16.050	54	89053	10.000	ppbV	0.02
Standard Area = 89053			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
2) propylene	3.940	41	60974M6	4.162	ppbV	
3) dichlorodifluoromethane	4.018	85	92765	4.427	ppbV	99
4) chloromethane	4.180	50	41657	5.264	ppbV	96
5) Freon-114	4.288	85	109343	5.295	ppbV	87
6) vinyl chloride	4.408	62	56451	4.821	ppbV	98
7) 1,3-butadiene	4.558	54	38876	5.856	ppbV	98
8) bromomethane	4.840	94	43583	4.608	ppbV	99
9) chloroethane	5.032	64	28277	4.549	ppbV #	90
10) ethanol	5.170	31	199584	29.021	ppbV	99
11) vinyl bromide	5.413	106	39887	3.891	ppbV	96
12) acrolein	5.547	56	19522	4.818	ppbV #	93
13) acetone	5.687	43	321836	27.083	ppbV	95
14) trichlorofluoromethane	5.873	101	78940	4.361	ppbV	100
15) isopropyl alcohol	5.977	45	172343	11.961	ppbV #	97
16) acrylonitrile	6.203	53	45879	7.043	ppbV	97
17) 1,1-dichloroethene	6.576	61	98085	4.856	ppbV	96
18) tertiary butyl alcohol	6.654	59	104639	4.194	ppbV	92
19) methylene chloride	6.720	49	69247	4.871	ppbV	94
20) 3-chloropropene	6.846	41	92409	5.071	ppbV	98
21) carbon disulfide	7.026	76	148251	4.132	ppbV	97
22) Freon 113	7.020	101	109847	4.058	ppbV	99
23) trans-1,2-dichloroethene	7.767	61	93645	4.511	ppbV	93
24) 1,1-dichloroethane	7.992	63	121056	4.622	ppbV	99
25) MTBE	8.067	73	126407	4.453	ppbV	95
26) vinyl acetate	8.183	43	109601	4.325	ppbV	99
27) 2-butanone	8.442	43	128425	4.781	ppbV	95
28) cis-1,2-dichloroethene	8.950	61	93904	4.813	ppbV	94
29) Ethyl Acetate	9.217	61	25831	4.706	ppbV	76
30) chloroform	9.292	83	100192	4.533	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618SIM\
Data File : r1548846_Ev2.D
Acq On : 18 Jun 2024 3:11 PM
Operator : AIRLAB15:JMB
Sample : WG1936046-2,3,250,250
Misc : WG1936046,ICAL21075
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 15:46:02 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618SIM\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618SIM\r1548846_Ev2.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
31) Tetrahydrofuran	9.733	42	81052	4.819	ppbV		96
32) 1,2-dichloroethane	10.125	62	68407	4.578	ppbV		98
34) hexane	9.200	57	126169	5.221	ppbV		97
36) 1,1,1-trichloroethane	10.417	97	83216	4.621	ppbV		95
37) benzene	10.947	78	200121	4.738	ppbV		99
38) carbon tetrachloride	11.120	117	71142	4.652	ppbV		92
39) cyclohexane	11.260	56	135162	5.259	ppbV		95
40) Dibromomethane	11.860	93	63842	4.697	ppbV	#	94
41) 1,2-dichloropropane	11.893	63	87182	5.112	ppbV		99
42) bromodichloromethane	12.120	83	102339	5.174	ppbV		99
43) 1,4-dioxane	12.173	88	50235	5.313	ppbV		98
44) trichloroethene	12.173	130	86605	4.743	ppbV		96
45) 2,2,4-trimethylpentane	12.213	57	436870	5.470	ppbV		98
46) heptane	12.527	43	143893	5.568	ppbV		95
47) cis-1,3-dichloropropene	13.183	75	93001	5.311	ppbV		97
48) 4-methyl-2-pentanone	13.225	43	161234	5.632	ppbV		96
49) trans-1,3-dichloropropene	13.808	75	68615	5.497	ppbV		96
50) 1,1,2-trichloroethane	14.000	97	84269	4.897	ppbV		94
52) toluene	14.308	91	259693	4.568	ppbV		99
54) 2-hexanone	14.592	43	140456	5.466	ppbV	#	94
55) dibromochloromethane	14.750	129	103010	4.941	ppbV		97
56) 1,2-dibromoethane	15.000	107	111411	4.801	ppbV		100
57) tetrachloroethene	15.450	166	92021	4.356	ppbV		97
58) 1,1,1,2-tetrachloroethane	16.075	131	76591	4.203	ppbV		97
59) chlorobenzene	16.092	112	194136	4.672	ppbV		99
60) ethylbenzene	16.442	91	334231	4.729	ppbV		99
61) m+p-xylene	16.600	91	542086	9.790	ppbV		97
62) bromoform	16.675	173	83048	4.863	ppbV		99
63) styrene	16.925	104	195843	4.909	ppbV		99
64) 1,1,2,2-tetrachloroethane	17.017	83	200899	5.146	ppbV		97
65) o-xylene	17.017	91	278310	4.972	ppbV		96
66) 1,2,3-Trichloropropane	17.125	75	125937	4.573	ppbV		96
68) isopropylbenzene	17.525	105	303939	4.257	ppbV		98
69) Bromobenzene	17.600	77	167913	4.566	ppbV		97
70) 4-ethyl toluene	18.083	105	326797	4.723	ppbV		95
71) 1,3,5-trimethylbenzene	18.142	105	321008	5.153	ppbV		98
72) tert-butylbenzene	18.483	119	285526	4.421	ppbV		96
73) 1,2,4-trimethylbenzene	18.492	105	286054	4.899	ppbV		94
74) Benzyl Chloride	18.608	91	149144	4.529	ppbV		100
75) 1,3-dichlorobenzene	18.625	146	200486	4.807	ppbV		98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618SIM\
Data File : r1548846_Ev2.D
Acq On : 18 Jun 2024 3:11 PM
Operator : AIRLAB15:JMB
Sample : WG1936046-2,3,250,250
Misc : WG1936046,ICAL21075
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 15:46:02 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618SIM\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618SIM\r1548846_Ev2.D
Sub List : Default-LCS-AP2 - All compounds listed

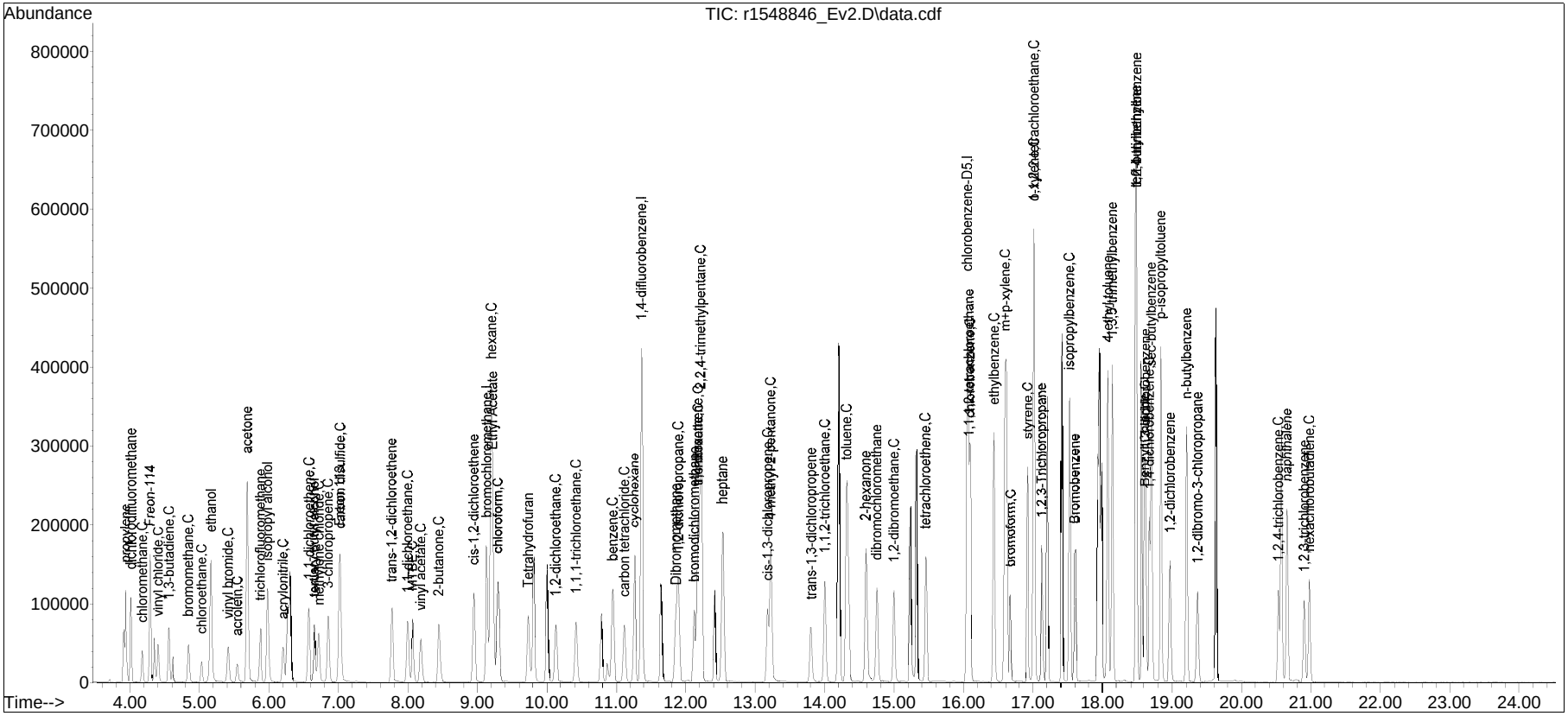
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
76) 1,4-dichlorobenzene	18.683	146	200734	4.830	ppbV		98
77) sec-butylbenzene	18.708	105	387348	4.239	ppbV		100
78) p-isopropyltoluene	18.842	119	312693	4.413	ppbV		98
79) 1,2-dichlorobenzene	18.975	146	151552	3.729	ppbV		99
80) n-butylbenzene	19.208	91	348805	4.704	ppbV		98
81) 1,2-dibromo-3-chloropr...	19.367	75	60361	4.885	ppbV		93
82) 1,2,4-trichlorobenzene	20.533	180	126043	4.663	ppbV		98
83) naphthalene	20.650	128	352411M6	4.730	ppbV		
84) 1,2,3-trichlorobenzene	20.908	180	113978	4.603	ppbV		99
85) hexachlorobutadiene	20.975	225	105525	4.283	ppbV	#	93

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

Sub List : Default-LCS-AP2 - All compounds listed8SIM\r1548846_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618SIM\
Data File : r1548846_Ev2.D
Acq On : 18 Jun 2024 3:11 PM
Operator : AIRLAB15:JMB
Sample : WG1936046-2,3,250,250
Misc : WG1936046,ICAL21075
ALS Vial : 0 Sample Multiplier: 1

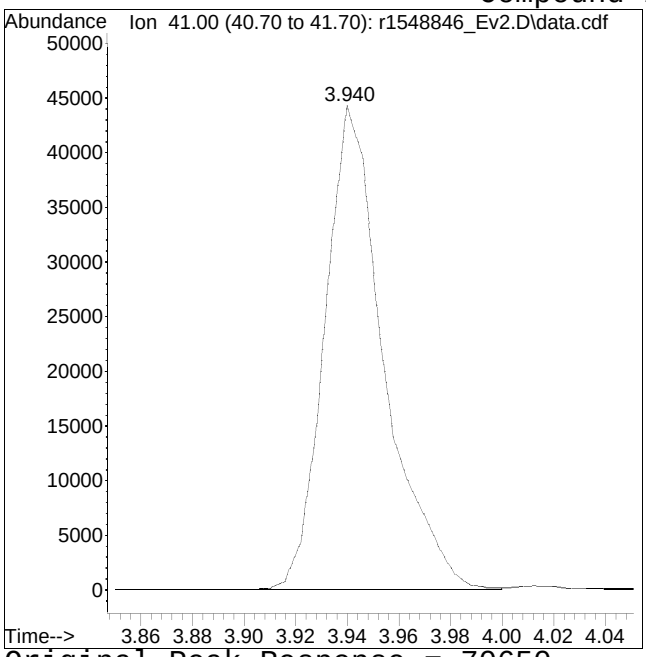
Quant Time: Jun 18 15:46:02 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618SIM\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 2024
Response via : Initial Calibration



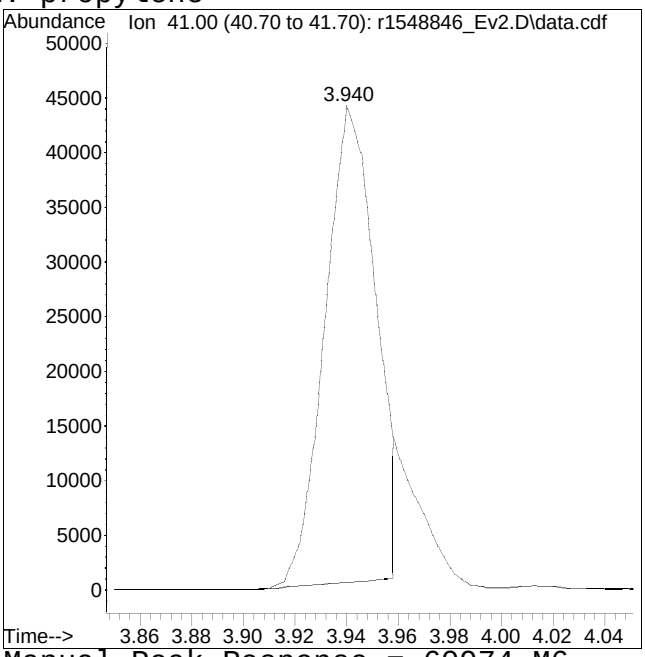
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1548846_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 6/18/2020 0:3: 1 Instrument :
Sample : WG1936046-2,3,250,250 Quant Date : 6/18/2024 3:46 pm

Compound #2: propylene



Original Peak Response = 70650



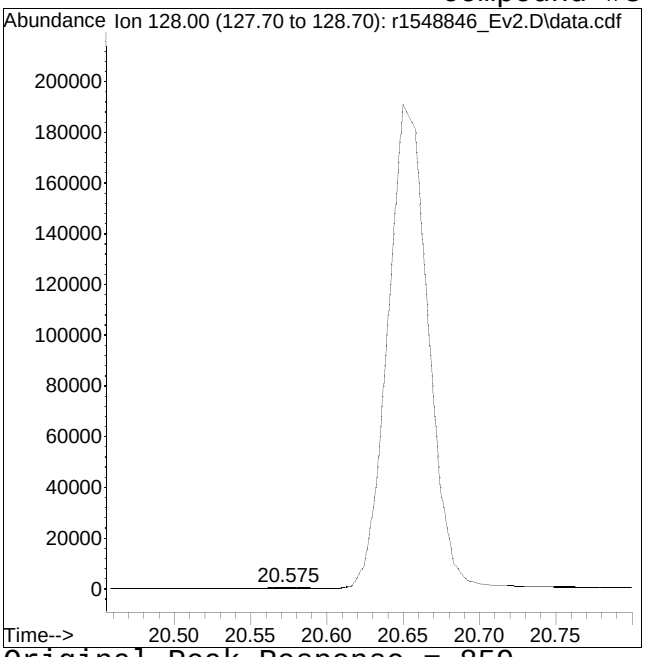
Manual Peak Response = 60974 M6

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

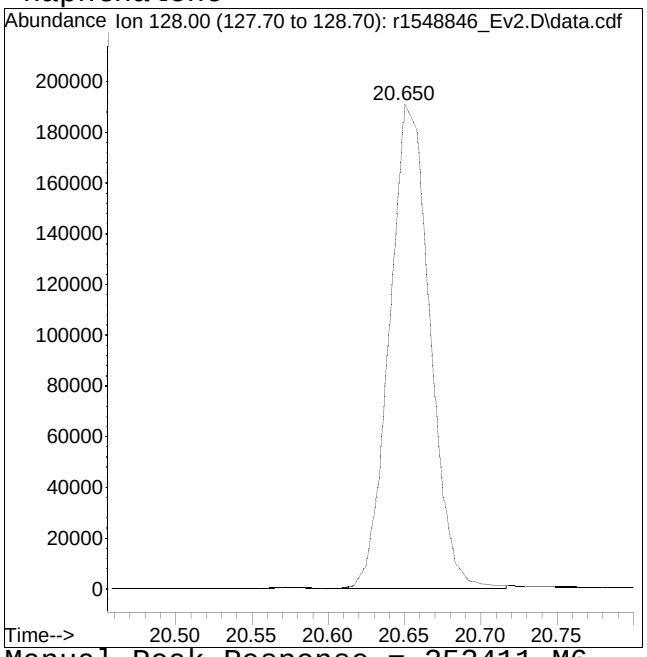
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1548846_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 6/18/2020 0:3: 1 Instrument :
Sample : WG1936046-2,3,250,250 Quant Date : 6/18/2024 3:46 pm

Compound #83: naphthalene



Original Peak Response = 859



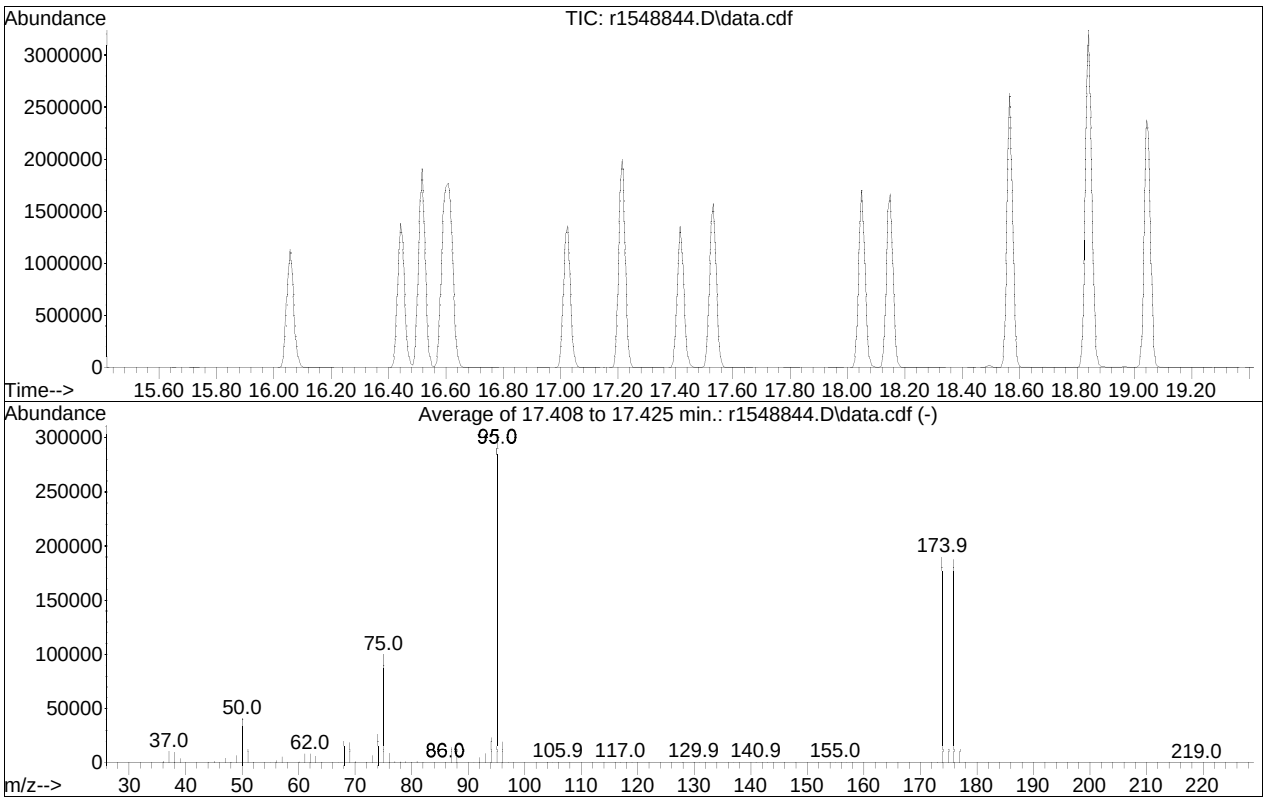
Manual Peak Response = 352411 M6

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

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618SIM\
Data File : r1548844.D
Acq On : 18 Jun 2024 1:54 PM
Operator : AIRLAB15:JMB
Sample : WG1936046-1,3,250,250
Misc : WG1936046,ICAL21075
ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab15\2024\06\0618SIM\TSIM15_240426.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Sat Apr 27 13:05:54 2024



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	13.6	40471	PASS
75	95	30	66	33.6	99572	PASS
95	95	100	100	100.0	296654	PASS
96	95	5	9	6.5	19233	PASS
173	174	0.00	2	0.6	1090	PASS
174	95	50	120	64.0	189897	PASS
175	174	4	9	6.9	13124	PASS
176	174	93	101	98.9	187763	PASS
177	176	5	9	6.6	12435	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618SIM\
Data File : r1548848_Ev2.D
Acq On : 18 Jun 2024 6:43 PM
Operator : AIRLAB15:JMB
Sample : WG1936046-4,3,250,250
Misc : WG1936046,ICAL21075
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 19:15:57 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618SIM\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618SIM\r1548846_Ev2.D
Sub List : Default-LCS-AP2 - All compounds listed

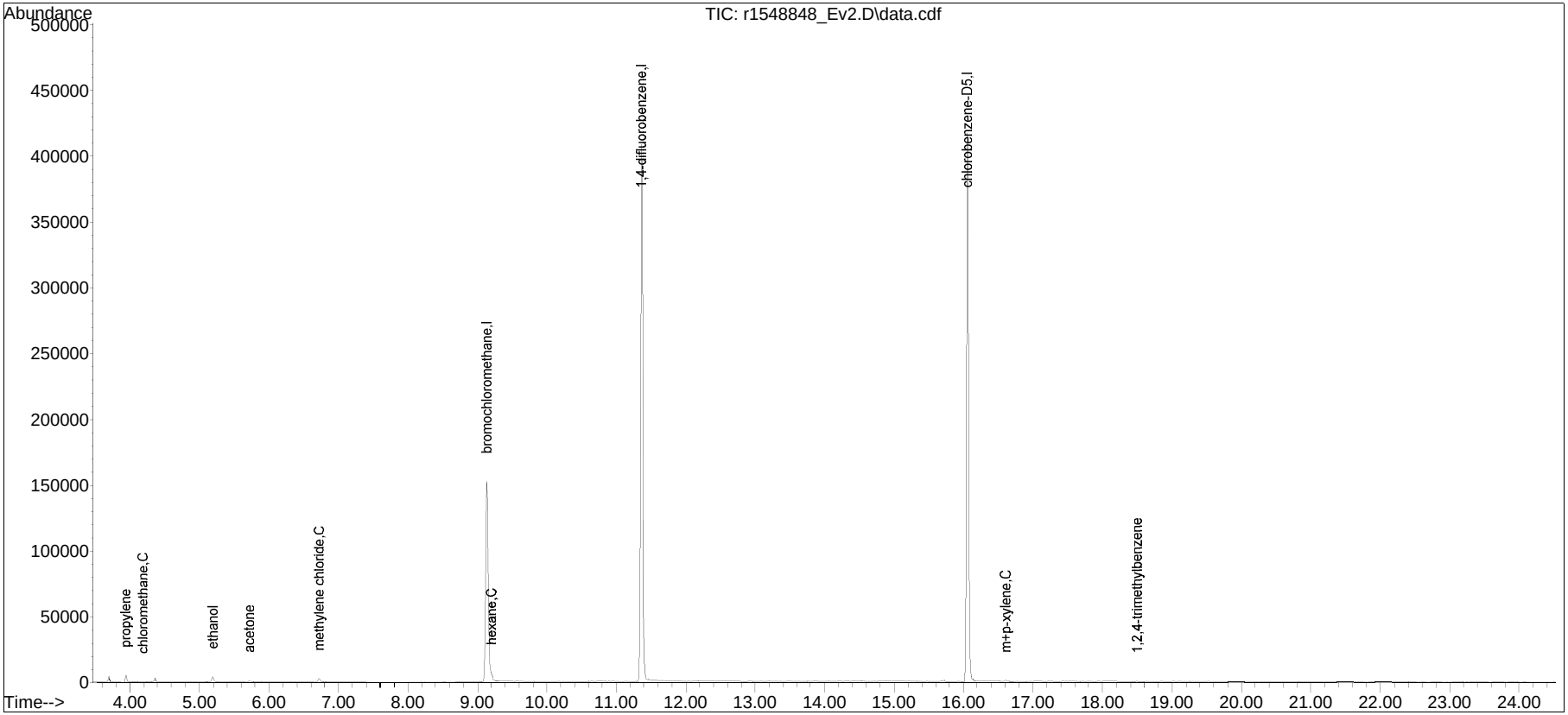
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.133	49	180715	10.000	ppbV	0.03
Standard Area = 187392			Recovery = 96.44%			
33) 1,4-difluorobenzene	11.367	114	499348	10.000	ppbV	0.02
Standard Area = 532871			Recovery = 93.71%			
51) chlorobenzene-D5	16.050	54	83782	10.000	ppbV	0.02
Standard Area = 89053			Recovery = 94.08%			
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	0.000		0	N.D.		
17) 1,1-dichloroethene	0.000		0	N.D.		
28) cis-1,2-dichloroethene	0.000		0	N.D.		
36) 1,1,1-trichloroethane	0.000		0	N.D.		
38) carbon tetrachloride	0.000		0	N.D.		
44) trichloroethene	0.000		0	N.D.		
57) tetrachloroethene	15.450		0	N.D.		

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

Sub List : Default-LCS-AP2 - All compounds listed8SIM\r1548846_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618SIM\
Data File : r1548848_Ev2.D
Acq On : 18 Jun 2024 6:43 PM
Operator : AIRLAB15:JMB
Sample : WG1936046-4,3,250,250
Misc : WG1936046,ICAL21075
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 19:15:57 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618SIM\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 2024
Response via : Initial Calibration



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab15	QMethod	: TSIM15_240426.M
Data File	: r1548848_Ev2.D	Operator	: AIRLAB15:JMB
Date Inj'd	: 6/18/2020 0:6: 3	Instrument	:
Sample	: WG1936046-4,3,250,250	Quant Date	: 6/18/2024 7:15 pm

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

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618SIM\
Data File : r1548846_Ev2.D
Acq On : 18 Jun 2024 3:11 PM
Operator : AIRLAB15:JMB
Sample : WG1936046-3,3,250,250
Misc : WG1936046,ICAL21075
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 15:46:02 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618SIM\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 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	93	0.03
2		propylene	5.000	4.162	16.8	82	0.03
3		dichlorodifluoromethane	5.000	4.427	11.5	66	0.03
4	C	chloromethane	5.000	5.264	-5.3	83	0.03
5		Freon-114	5.000	5.295	-5.9	81	0.03
6	C	vinyl chloride	5.000	4.821	3.6	70	0.02
7	C	1,3-butadiene	5.000	5.856	-17.1	84	0.03
8	C	bromomethane	5.000	4.608	7.8	70	0.03
9	C	chloroethane	5.000	4.549	9.0	71	0.03
10		ethanol	25.000	29.021	-16.1	90	0.04
11	C	vinyl bromide	5.000	3.891	22.2	60	0.03
12	C	acrolein	5.000	4.818	3.6	77	0.03
13		acetone	25.000	27.083	-8.3	88	0.03
14		trichlorofluoromethane	5.000	4.361	12.8	69	0.03
15		isopropyl alcohol	12.500	11.961	4.3	80	0.03
16	C	acrylonitrile	5.000	7.043	-40.9#	99	0.03
17	C	1,1-dichloroethene	5.000	4.856	2.9	74	0.03
18		tertiary butyl alcohol	5.000	4.194	16.1	69	0.04
19	C	methylene chloride	5.000	4.871	2.6	79	0.03
20	C	3-chloropropene	5.000	5.071	-1.4	83	0.03
21	C	carbon disulfide	5.000	4.132	17.4	65	0.03
22		Freon 113	5.000	4.058	18.8	69	0.03
23		trans-1,2-dichloroethene	5.000	4.511	9.8	69	0.03
24	C	1,1-dichloroethane	5.000	4.622	7.6	71	0.02
25	C	MTBE	5.000	4.453	10.9	68	0.03
26	C	vinyl acetate	5.000	4.325	13.5	70	0.03
27	C	2-butanone	5.000	4.781	4.4	73	0.03
28		cis-1,2-dichloroethene	5.000	4.813	3.7	72	0.02
29		Ethyl Acetate	5.000	4.706	5.9	74	0.03
30	C	chloroform	5.000	4.533	9.3	69	0.02
31		Tetrahydrofuran	5.000	4.819	3.6	76	0.03
32	C	1,2-dichloroethane	5.000	4.578	8.4	71	0.03
33	I	1,4-difluorobenzene	10.000	10.000	0.0	85	0.02
34	C	hexane	5.000	5.221	-4.4	73	0.02
36	C	1,1,1-trichloroethane	5.000	4.621	7.6	64	0.02
37	C	benzene	5.000	4.738	5.2	68	0.03
38	C	carbon tetrachloride	5.000	4.652	7.0	65	0.03
39		cyclohexane	5.000	5.259	-5.2	74	0.02

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618SIM\
Data File : r1548846_Ev2.D
Acq On : 18 Jun 2024 3:11 PM
Operator : AIRLAB15:JMB
Sample : WG1936046-3,3,250,250
Misc : WG1936046,ICAL21075
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 15:46:02 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618SIM\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 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)
40		Dibromomethane	5.000	4.697	6.1	65	0.02
41	C	1,2-dichloropropane	5.000	5.112	-2.2	71	0.03
42		bromodichloromethane	5.000	5.174	-3.5	71	0.02
43	C	1,4-dioxane	5.000	5.313	-6.3	72	0.03
44	C	trichloroethene	5.000	4.743	5.1	65	0.03
45	C	2,2,4-trimethylpentane	5.000	5.470	-9.4	75	0.02
46		heptane	5.000	5.568	-11.4	78	0.02
47	C	cis-1,3-dichloropropene	5.000	5.311	-6.2	68	0.03
48	C	4-methyl-2-pentanone	5.000	5.632	-12.6	79	0.03
49		trans-1,3-dichloropropene	5.000	5.497	-9.9	66	0.03
50	C	1,1,2-trichloroethane	5.000	4.897	2.1	69	0.02
51	I	chlorobenzene-D5	10.000	10.000	0.0	87	0.02
52	C	toluene	5.000	4.568	8.6	67	0.02
54		2-hexanone	5.000	5.466	-9.3	76	0.03
55		dibromochloromethane	5.000	4.941	1.2	67	0.02
56	C	1,2-dibromoethane	5.000	4.801	4.0	66	0.02
57	C	tetrachloroethene	5.000	4.356	12.9	64	0.02
58		1,1,1,2-tetrachloroethane	5.000	4.203	15.9	61	0.00
59	C	chlorobenzene	5.000	4.672	6.6	69	0.02
60	C	ethylbenzene	5.000	4.729	5.4	66	0.02
61	C	m+p-xylene	10.000	9.790	2.1	68	0.00
62	C	bromoform	5.000	4.863	2.7	65	0.02
63	C	styrene	5.000	4.909	1.8	64	0.02
64	C	1,1,2,2-tetrachloroethane	5.000	5.146	-2.9	73	0.02
65	C	o-xylene	5.000	4.972	0.6	69	0.00
66		1,2,3-Trichloropropane	5.000	4.573	8.5	65	0.00
68	C	isopropylbenzene	5.000	4.257	14.9	63	0.00
69		Bromobenzene	5.000	4.566	8.7	66	0.00
70		4-ethyl toluene	5.000	4.723	5.5	64	0.02
71		1,3,5-trimethylbenzene	5.000	5.153	-3.1	65	0.00
72		tert-butylbenzene	5.000	4.421	11.6	63	0.00
73		1,2,4-trimethylbenzene	5.000	4.899	2.0	65	0.02
74	C	Benzyl Chloride	5.000	4.529	9.4	60	0.02
75		1,3-dichlorobenzene	5.000	4.807	3.9	64	0.02
76	C	1,4-dichlorobenzene	5.000	4.830	3.4	67	0.02
77		sec-butylbenzene	5.000	4.239	15.2	61	0.02
78		p-isopropyltoluene	5.000	4.413	11.7	64	0.02
79		1,2-dichlorobenzene	5.000	3.729	25.4	54	0.03

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618SIM\
Data File : r1548846_Ev2.D
Acq On : 18 Jun 2024 3:11 PM
Operator : AIRLAB15:JMB
Sample : WG1936046-3,3,250,250
Misc : WG1936046,ICAL21075
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 15:46:02 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618SIM\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 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)
80	n-butylbenzene	5.000	4.704	5.9	67	0.04
81	1,2-dibromo-3-chloropropane	5.000	4.885	2.3	66	0.05
82 C	1,2,4-trichlorobenzene	5.000	4.663	6.7	60	0.08
83	naphthalene	5.000	4.730	5.4	62	0.08
84	1,2,3-trichlorobenzene	5.000	4.603	7.9	63	0.09
85 C	hexachlorobutadiene	5.000	4.283	14.3	59	0.08

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 1

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618SIM\
Data File : r1548846_Ev2.D
Acq On : 18 Jun 2024 3:11 PM
Operator : AIRLAB15:JMB
Sample : WG1936046-3,3,250,250
Misc : WG1936046,ICAL21075
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 15:46:02 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618SIM\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618SIM\r1548846_Ev2.D
Sub List : Default-LCS-AP2 - All compounds listed

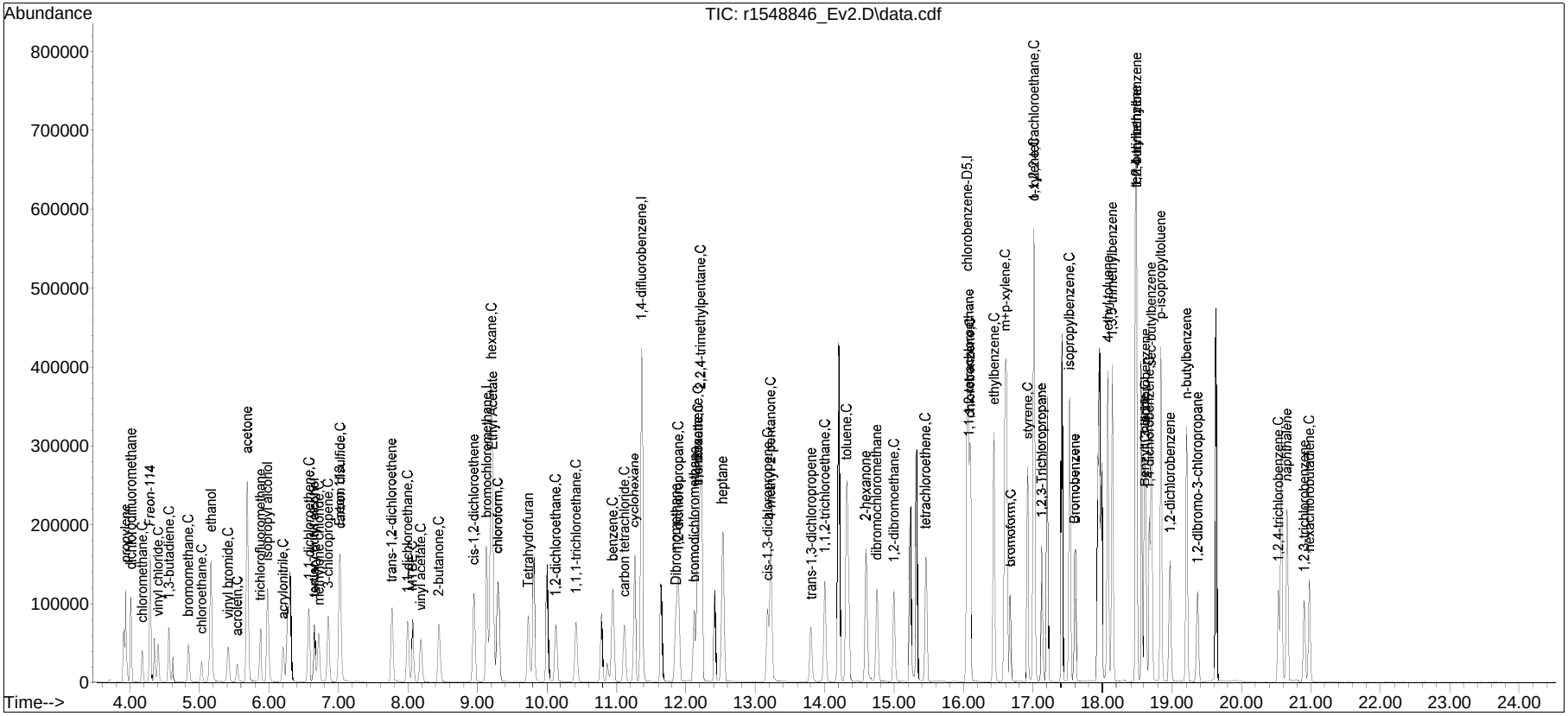
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.133	49	187392	10.000	ppbV	0.03
Standard Area = 187392			Recovery = 100.00%			
33) 1,4-difluorobenzene	11.367	114	532871	10.000	ppbV	0.02
Standard Area = 532871			Recovery = 100.00%			
51) chlorobenzene-D5	16.050	54	89053	10.000	ppbV	0.02
Standard Area = 89053			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	4.408	62	56451	4.821	ppbV	98
17) 1,1-dichloroethene	6.576	61	98085	4.856	ppbV	96
28) cis-1,2-dichloroethene	8.950	61	93904	4.813	ppbV	94
36) 1,1,1-trichloroethane	10.417	97	83216	4.621	ppbV	95
38) carbon tetrachloride	11.120	117	71142	4.652	ppbV	92
44) trichloroethene	12.173	130	86605	4.743	ppbV	96
57) tetrachloroethene	15.450	166	92021	4.356	ppbV	97

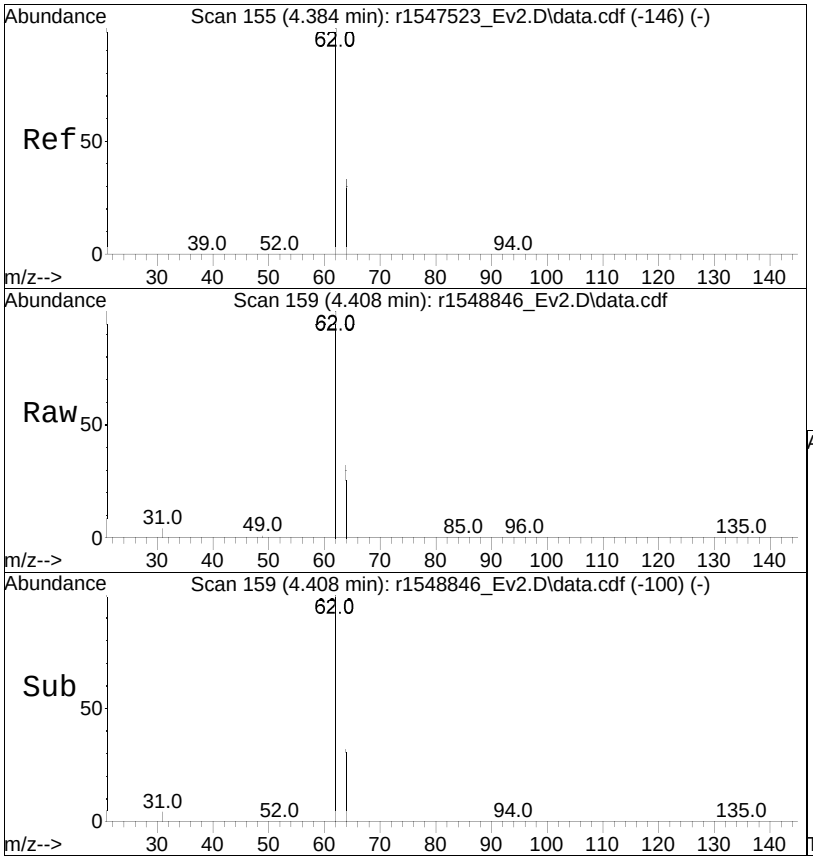
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default-LCS-AP2 - All compounds listed8SIM\r1548846_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618SIM\
Data File : r1548846_Ev2.D
Acq On : 18 Jun 2024 3:11 PM
Operator : AIRLAB15:JMB
Sample : WG1936046-3,3,250,250
Misc : WG1936046,ICAL21075
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 15:46:02 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618SIM\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 2024
Response via : Initial Calibration

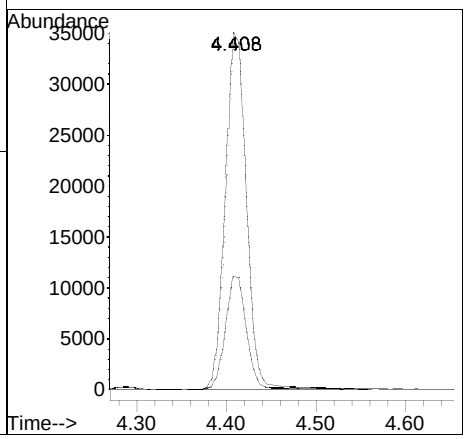


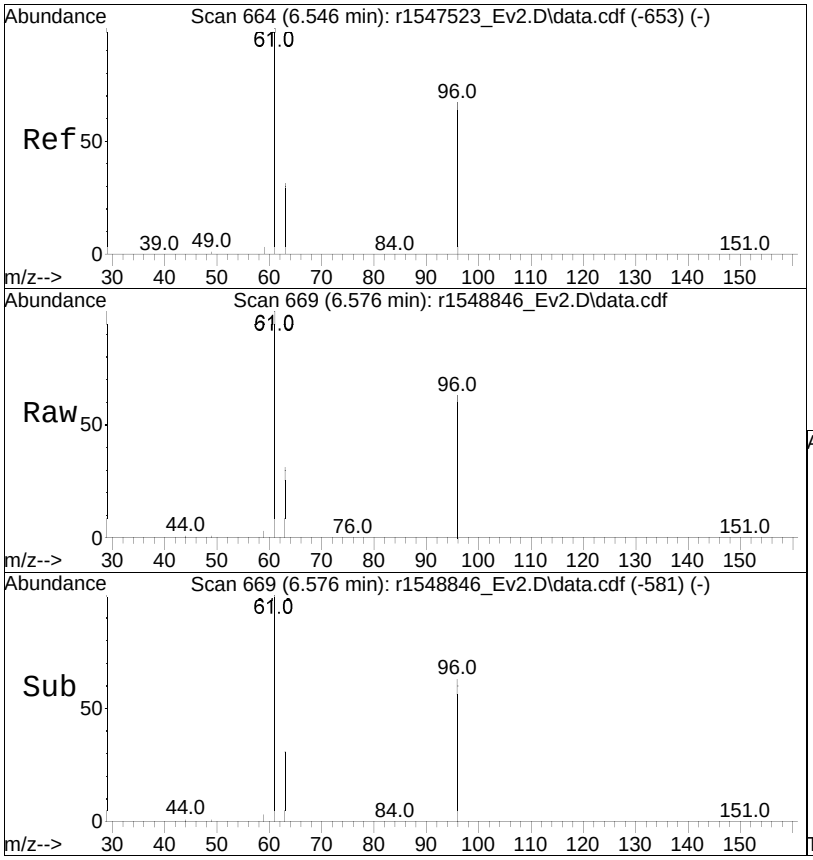


#6
vinyl chloride
Concen: 4.82 ppbV
RT: 4.408 min Scan# 159
Delta R.T. 0.024 min
Lab File: r1548846_Ev2.D
Acq: 18 Jun 2024 3:11 PM

Tgt Ion: 62 Resp: 56451

Ion	Ratio	Lower	Upper
62	100		
64	31.9	26.2	39.4

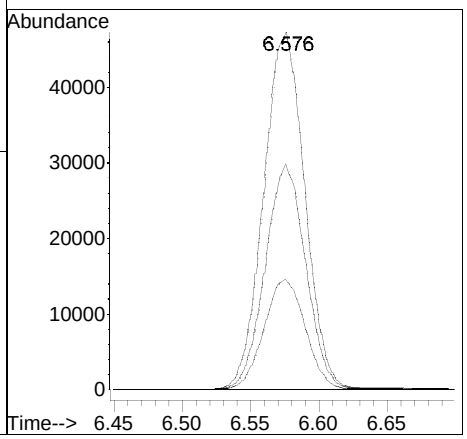


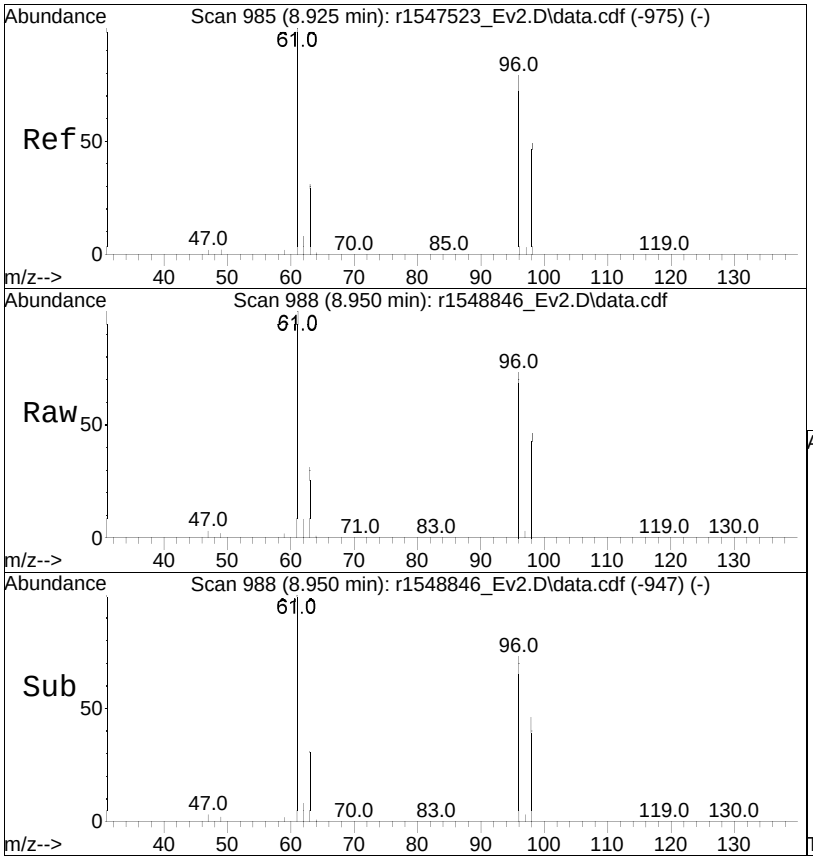


#17
1,1-dichloroethene
Concen: 4.86 ppbV
RT: 6.576 min Scan# 669
Delta R.T. 0.030 min
Lab File: r1548846_Ev2.D
Acq: 18 Jun 2024 3:11 PM

Tgt Ion: 61 Resp: 98085

Ion	Ratio	Lower	Upper
61	100		
96	63.3	53.8	80.8
63	31.1	25.2	37.8

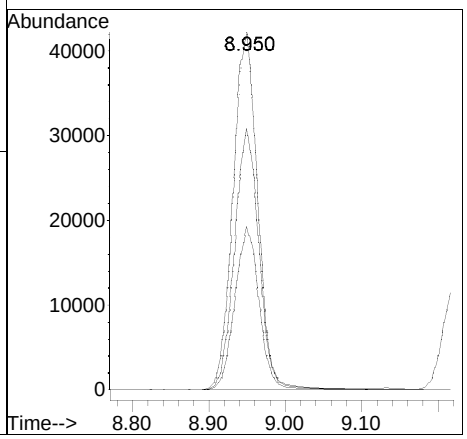


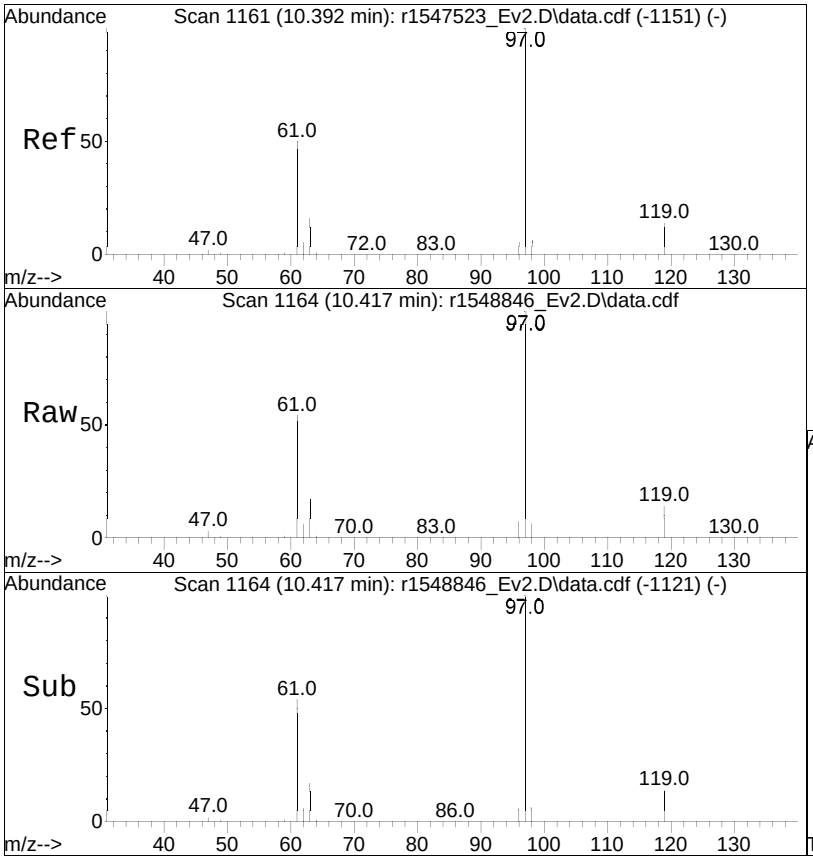


#28
cis-1,2-dichloroethene
Concen: 4.81 ppbV
RT: 8.950 min Scan# 988
Delta R.T. 0.025 min
Lab File: r1548846_Ev2.D
Acq: 18 Jun 2024 3:11 PM

Tgt Ion: 61 Resp: 93904

Ion	Ratio	Lower	Upper
61	100		
96	73.1	63.0	94.4
98	45.7	39.4	59.2

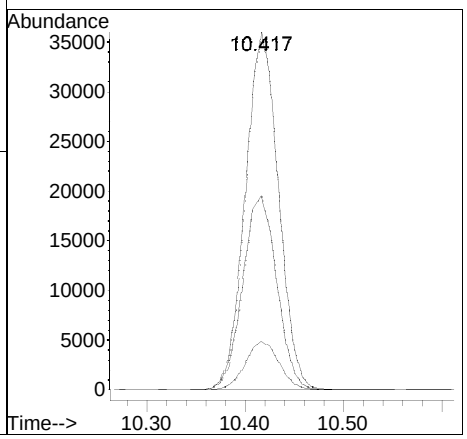


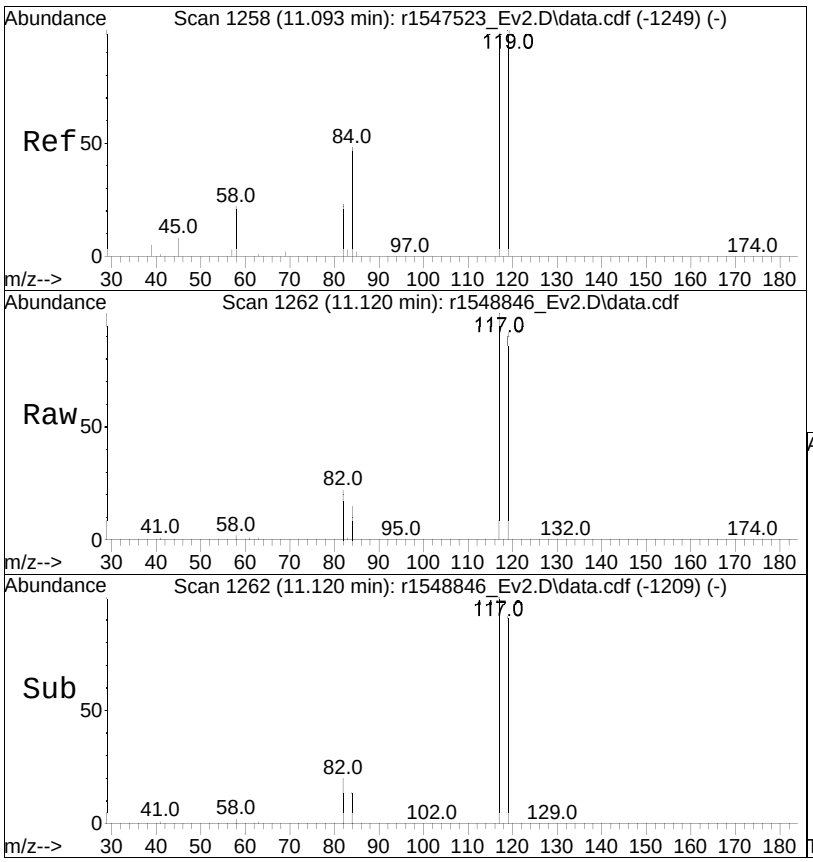


#36
1,1,1-trichloroethane
Concen: 4.62 ppbV
RT: 10.417 min Scan# 1164
Delta R.T. 0.025 min
Lab File: r1548846_Ev2.D
Acq: 18 Jun 2024 3:11 PM

Tgt Ion: 97 Resp: 83216

Ion	Ratio	Lower	Upper
97	100		
61	54.3	39.8	59.6
119	13.6	11.1	16.7

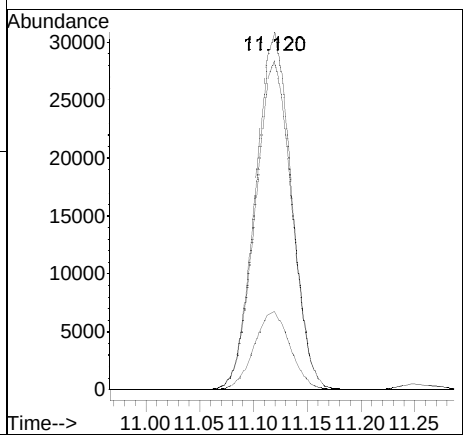


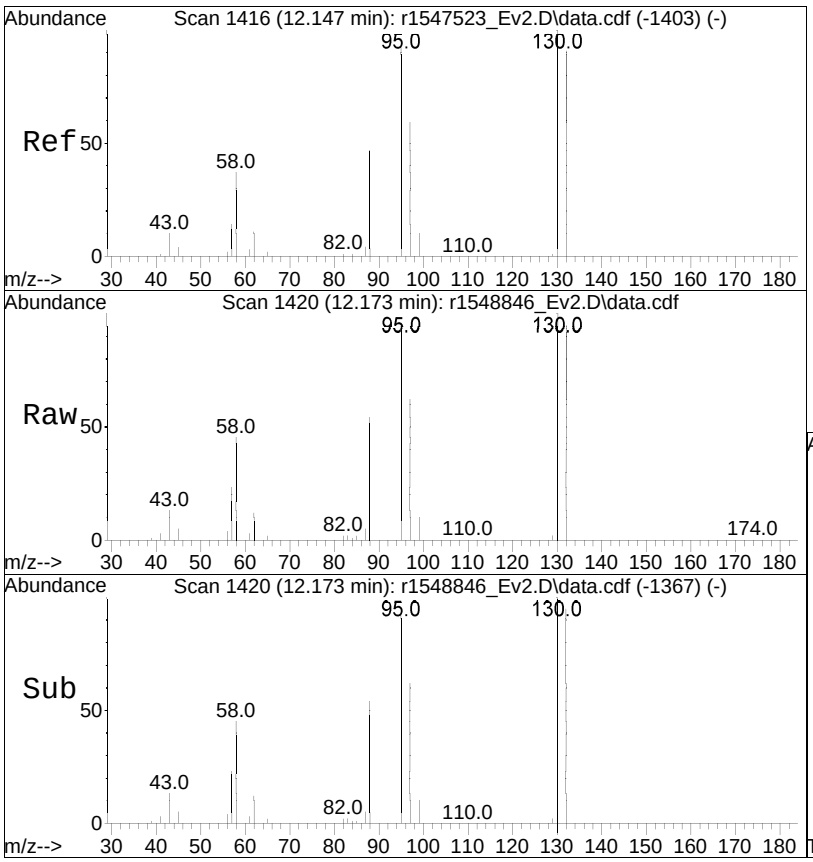


#38
carbon tetrachloride
Concen: 4.65 ppbV
RT: 11.120 min Scan# 1262
Delta R.T. 0.027 min
Lab File: r1548846_Ev2.D
Acq: 18 Jun 2024 3:11 PM

Tgt Ion:117 Resp: 71142

Ion	Ratio	Lower	Upper
117	100		
119	92.1	80.8	121.2
82	22.0	18.5	27.7

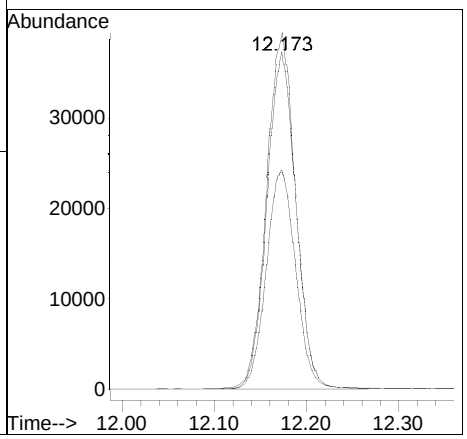


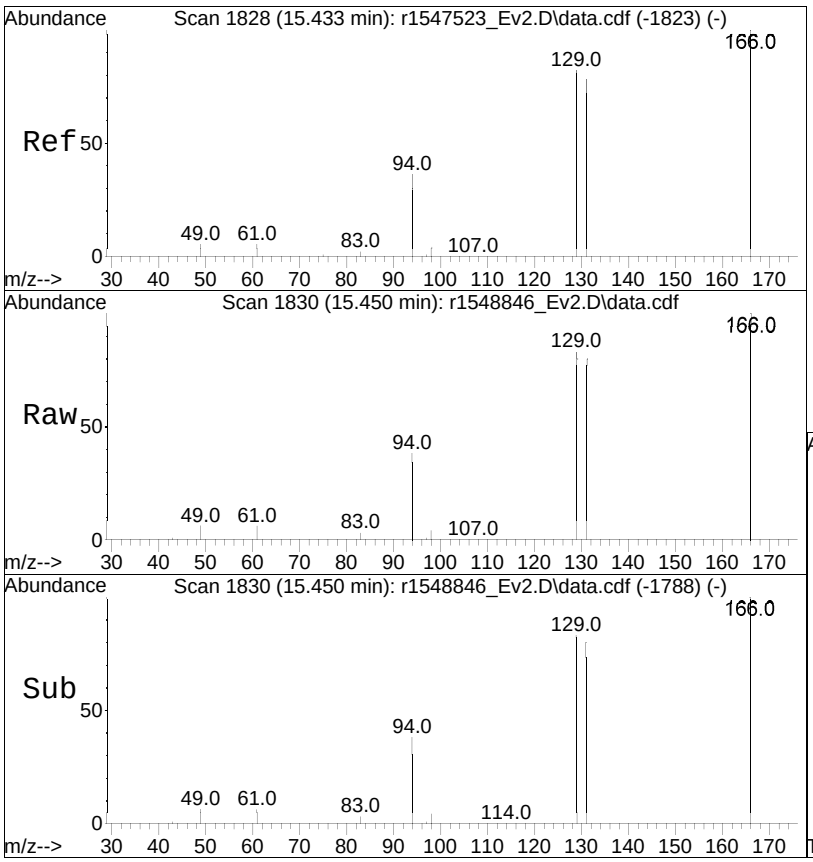


#44
trichloroethene
Concen: 4.74 ppbV
RT: 12.173 min Scan# 1420
Delta R.T. 0.027 min
Lab File: r1548846_Ev2.D
Acq: 18 Jun 2024 3:11 PM

Tgt Ion:130 Resp: 86605

Ion	Ratio	Lower	Upper
130	100		
132	94.6	72.6	109.0
97	61.8	47.3	70.9

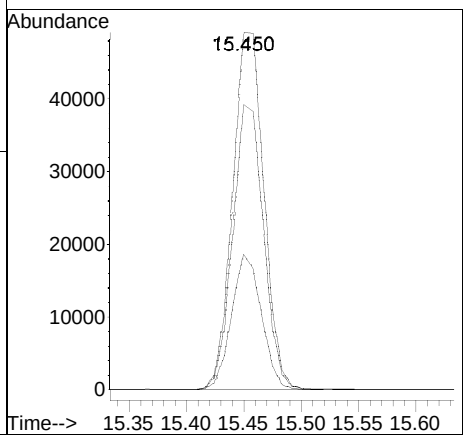




#57
tetrachloroethene
Concen: 4.36 ppbV
RT: 15.450 min Scan# 1830
Delta R.T. 0.017 min
Lab File: r1548846_Ev2.D
Acq: 18 Jun 2024 3:11 PM

Tgt Ion:166 Resp: 92021

Ion	Ratio	Lower	Upper
166	100		
131	79.7	62.0	93.0
94	38.0	29.0	43.4



Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618SIM\
Data File : r1548855_Ev2.D
Acq On : 18 Jun 2024 11:05 PM
Operator : AIRLAB15:JMB
Sample : WG1936046-5,3,250,250
Misc : WG1936046,ICAL21075
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:24:39 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618SIM\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\06\0618SIM\r1548846_Ev2.D
Sub List : 7-NY-SIM - .

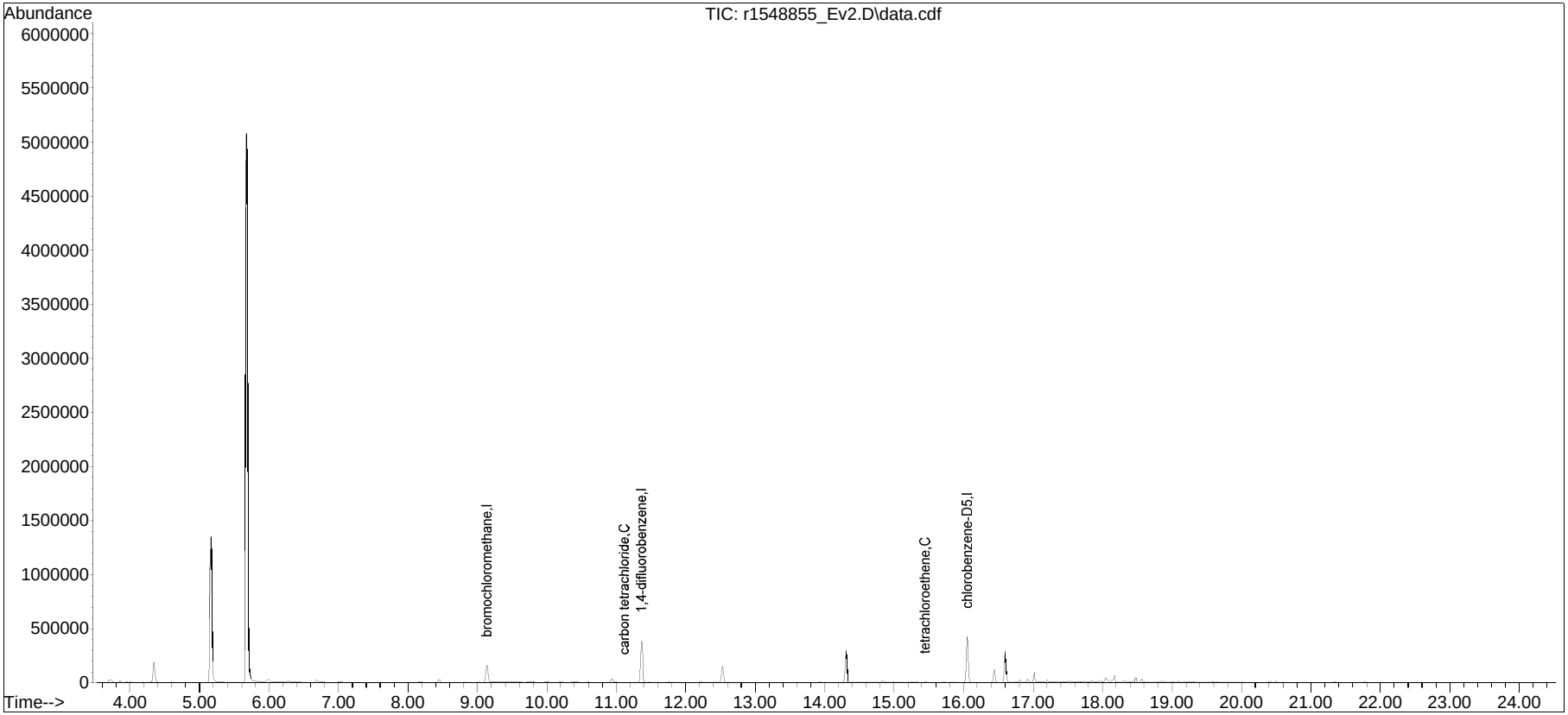
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.133	49	177743	10.000	ppbV	0.03
Standard Area = 187392			Recovery =		94.85%	
33) 1,4-difluorobenzene	11.367	114	478755	10.000	ppbV	0.02
Standard Area = 532871			Recovery =		89.84%	
51) chlorobenzene-D5	16.050	54	83027	10.000	ppbV	0.02
Standard Area = 89053			Recovery =		93.23%	
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	0.000		0	N.D.		
17) 1,1-dichloroethene	0.000		0	N.D.		
28) cis-1,2-dichloroethene	0.000		0	N.D.		
36) 1,1,1-trichloroethane	0.000		0	N.D.		
38) carbon tetrachloride	11.113	117	892M4	0.065	ppbV	
44) trichloroethene	0.000		0	N.D.		
57) tetrachloroethene	15.450	166	4762	0.242	ppbV	97

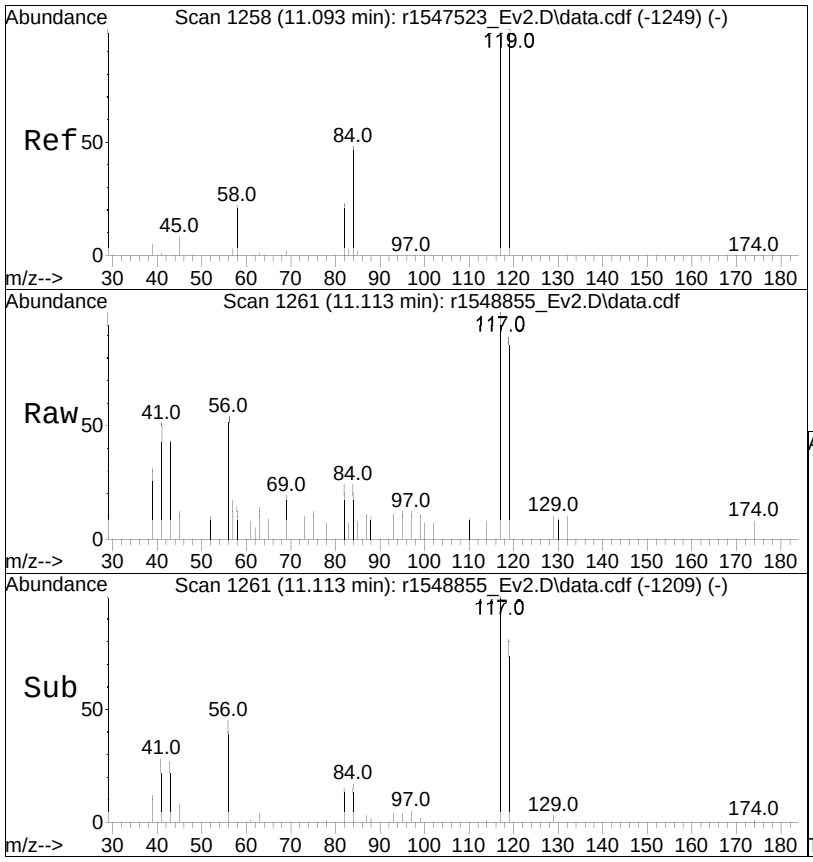
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab15\2024\06\0618SIM\r1548846_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2024\06\0618SIM\
Data File : r1548855_Ev2.D
Acq On : 18 Jun 2024 11:05 PM
Operator : AIRLAB15:JMB
Sample : WG1936046-5,3,250,250
Misc : WG1936046,ICAL21075
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 19 07:24:39 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\06\0618SIM\TSIM15_240426.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Apr 27 13:05:54 2024
Response via : Initial Calibration

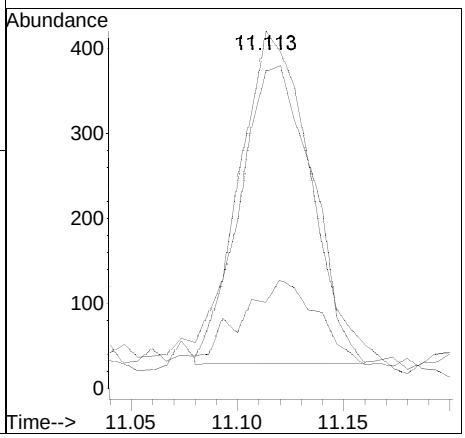


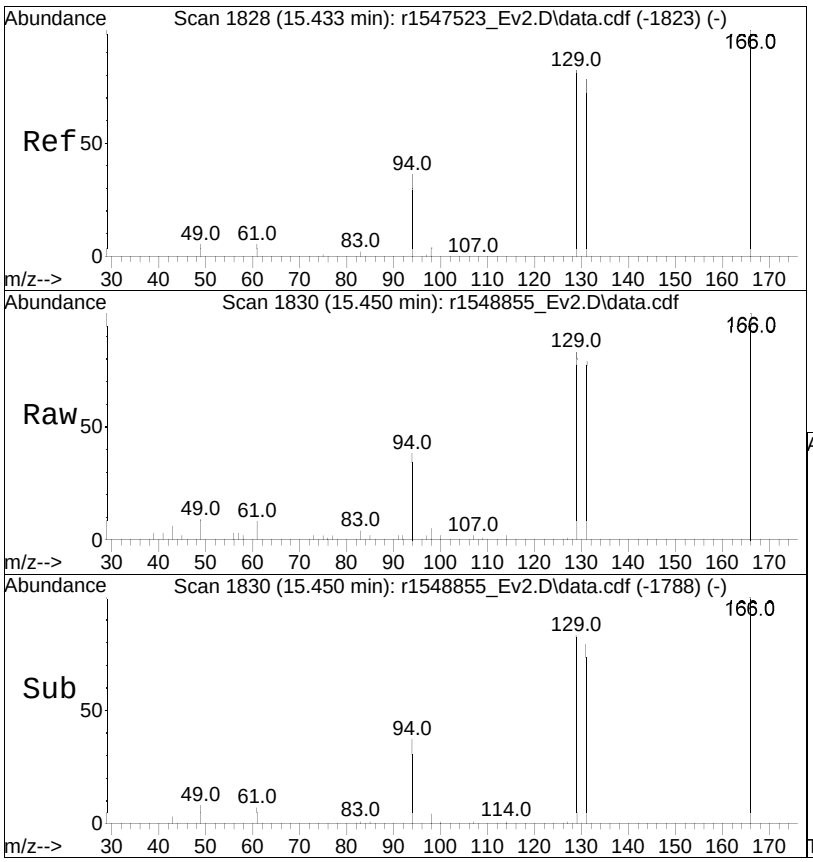


#38
carbon tetrachloride
Concen: 0.06 ppbV m
RT: 11.113 min Scan# 1261
Delta R.T. 0.020 min
Lab File: r1548855_Ev2.D
Acq: 18 Jun 2024 11:05 PM

Tgt Ion:117 Resp: 892

Ion	Ratio	Lower	Upper
117	100		
119	89.0	80.8	121.2
82	24.0	18.5	27.7

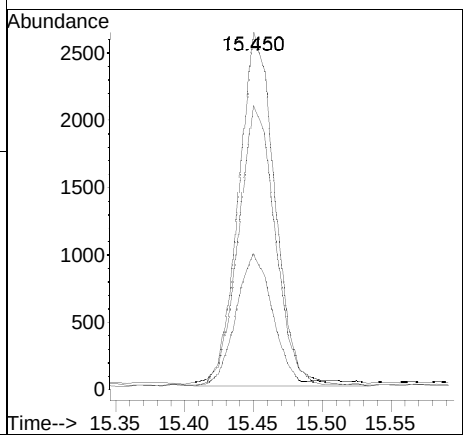




#57
tetrachloroethene
Concen: 0.24 ppbV
RT: 15.450 min Scan# 1830
Delta R.T. 0.017 min
Lab File: r1548855_Ev2.D
Acq: 18 Jun 2024 11:05 PM

Tgt Ion:166 Resp: 4762

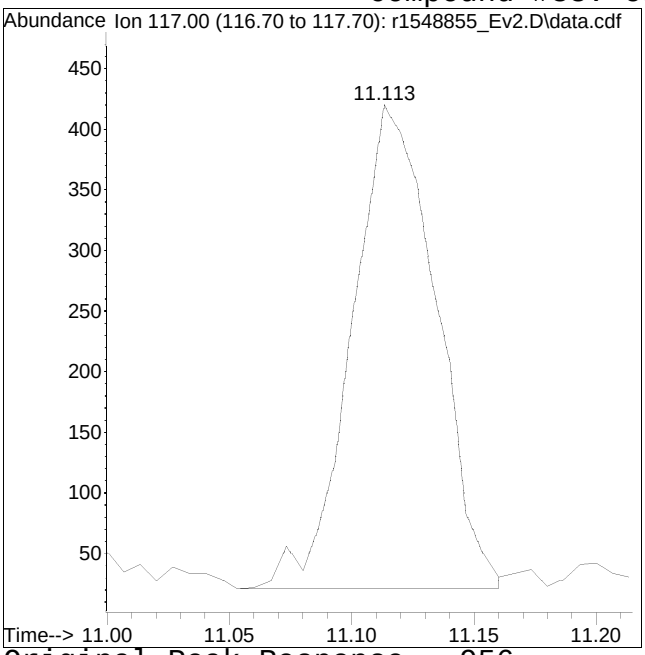
Ion	Ratio	Lower	Upper
166	100		
131	79.5	62.0	93.0
94	38.2	29.0	43.4



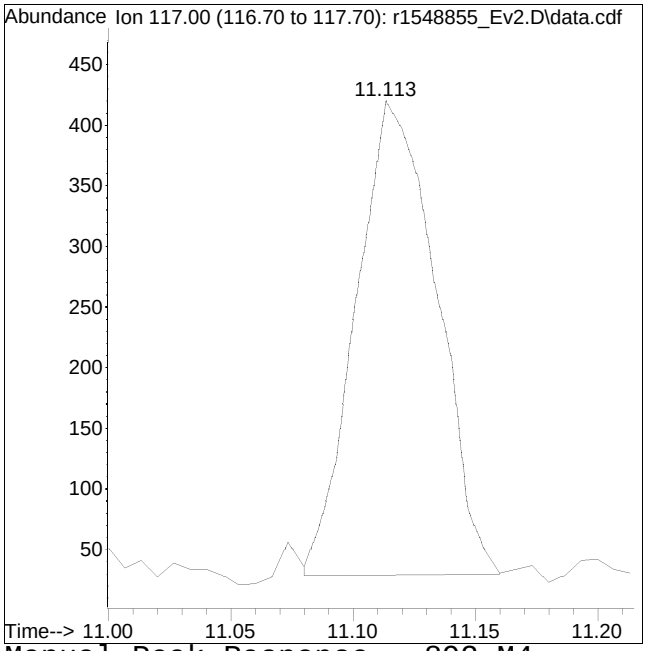
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_240426.M
Data File : r1548855_Ev2.D Operator : AIRLAB15:JMB
Date Inj'd : 6/18/2020 0:1: 5 Instrument :
Sample : WG1936046-5,3,250,250 Quant Date : 6/19/2024 7:24 am

Compound #38: carbon tetrachloride



Original Peak Response = 956



Manual Peak Response = 892 M4

M4 = Poor automated baseline construction.

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.

Result, ppbv = C_s x 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
$DF = V_{cf} / V_{ci}$
Where:
V_{ci} = volume of air in canister prior to pressurization, L
P =

Conversion of ppbv to ug/m^3
ug/m^3 = (ppbv) * 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).

$V_{ci} = 2.7 * Pl/14.696$

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)

Jun 19 2024, 01:41 pm

Work Group: WG1936046 for Department: 3 GC/MS

Created: 18-JUN-24 Due: Operator: JFI

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2430987-01	IA-01	S	TO15-SIM	AIR	DONE	U	0704	0618	S0	Can-2.7
L2430987-02	IA-02	S	TO15-SIM	AIR	DONE	U	0704	0618	S0	Can-2.7
L2430987-03	IA-03	S	TO15-SIM	AIR	DONE	U	0704	0618	S0	Can-2.7
L2430987-04	IA-04	S	TO15-SIM	AIR	DONE	U	0704	0618	S0	Can-2.7
L2430987-05	OA-01	S	TO15-SIM	AIR	DONE	U	0704	0618	S0	Can-2.7
L2432670-01	AA-01_20240611	S	TO15-SIM	AIR	DONE	U	0711	0618	S0	Can-6
L2432670-02	IA-01_20240611	S	TO15-SIM	AIR	DONE	U	0711	0618	S0	Can-6
L2432670-03	IA-02_20240611	S	TO15-SIM	AIR	DONE	U	0711	0618	S0	Can-6
L2432670-04	IA-03_20240611	S	TO15-SIM	AIR	DONE	U	0711	0618	S0	Can-6
L2432670-05	IA-06_20240611	S	TO15-SIM	AIR	DONE	U	0711	0618	S0	Can-6
L2432670-06	IA-05_20240611	S	TO15-SIM	AIR	DONE	U	0711	0618	S0	Can-6
L2432670-07	IA-04_20240611	S	TO15-SIM	AIR	DONE	U	0711	0618	S0	Can-6
L2432670-08	IA-07_20240611	S	TO15-SIM	AIR	DONE	U	0711	0618	S0	Can-6
L2432670-09	IA-08_20240611	S	TO15-SIM	AIR	DONE	U	0711	0618	S0	Can-6
WG1936046-1	MS BFB Tune Standard	S	TO15-SIM	AIR	DONE	U				
WG1936046-2	Continuing Calibrati	S	TO15-SIM	AIR	DONE	U				
WG1936046-3	Laboratory Control S	S	TO15-SIM	AIR	DONE	U				
WG1936046-4	Laboratory Method Bl	S	TO15-SIM	AIR	DONE	U				
WG1936046-5	Duplicate Sample	S	TO15-SIM	AIR	DONE	U				

Comments:

WG1936046-5 L2432670-06

ID:	Airlab15	Internal Standard/Surrogate IDs:	SS20-028 / SS21-026
Date:	04/26/24	Internal Standard/Surrogate Volume:	100 ml
Initials:	JMB	Sequence File Name:	240426.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	BA15042601	TO15_SFS.qgm	R1547513.qgd	250 mL			NA
1	BA15042602	TO15_SFS.qgm	R1547514.qgd	250 mL			NA
1	BA15042603	TO15_SFS.qgm	R1547515.qgd	250 mL			NA
1	TA15042601	TO15_SFS.qgm	R1547516.qgd	250 mL		TUNE	NA
5	ITO15-SIMSTD0.02	TO15_SFS.qgm	R1547517.qgd	50 mL SS24-006D	SIM ONLY	DEF	NA
5	ITO15-SIMSTD0.05	TO15_SFS.qgm	R1547518.qgd	125 mL SS24-006D	SIM ONLY	DEF	NA
5	ITO15-SIMSTD0.1	TO15_SFS.qgm	R1547519.qgd	250 mL SS24-006D	SIM ONLY	DEF	NA
6	ITO15-SIMSTD0.2	TO15_SFS.qgm	R1547520.qgd	50 mL SS24-006C		DEF	NA
6	ITO15-SIMSTD0.5	TO15_SFS.qgm	R1547521.qgd	125 mL SS24-006C		DEF	NA
6	ITO15-SIMSTD1.0	TO15_SFS.qgm	R1547522.qgd	250 mL SS24-006C		DEF	NA
7	ITO15-SIMSTD5.0	TO15_SFS.qgm	R1547523.qgd	125 mL SS24-006B		DEF	NA
7	ITO15-SIMSTD010	TO15_SFS.qgm	R1547524.qgd	250 mL SS24-006B		DEF	NA
8	ITO15-SIMSTD020	TO15_SFS.qgm	R1547525.qgd	50 mL SS24-006A		DEF	NA
8	ITO15-SIMSTD050	TO15_SFS.qgm	R1547526.qgd	125 mL SS24-006A		DEF	NA
8	ITO15-LLSTD100	TO15_SFS.qgm	R1547527.qgd	250 mL SS24-006A	LL ONLY	DEF	NA
1	BA15042601	TO15_SFS.qgm	R1547528.qgd	250 mL			NA
1	BA15042602	TO15_SFS.qgm	R1547529.qgd	250 mL			NA
2	CTO15-LLSTD10.0	TO15_SFS.qgm	R1547530.qgd	250 mL SS24-012D	LL ICV	DEF-ICV-AP2	NA
2	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1547531.qgd	125 mL SS24-012D	SIM ICV	DEF-ICV-AP2	NA

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

ID:	Airlab15	Internal Standard/Surrogate IDs:	SS20-028 / SS21-026
Date:	06/18/24	Internal Standard/Surrogate Volume:	100 ml
Initials:	JMB	Sequence File Name:	240618.S

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ sublist	ak Check Pa
1	TA15061801	TO15_SFS.qgm	R1548839.qgd	250 mL	TUNE	DO NOT USE	NA
2	APHC10STD10	TO15_SFS.qgm	R1548840.qgd	125 mL SS24-010B2	APH CC	DO NOT USE	NA
3	CA15061801	TO15_SFS.qgm	R1548841.qgd	250 mL SS24-018G	LL CC	DO NOT USE	NA
4	CTO15-LLSTD10.0	TO15_SFS.qgm	R1548842.qgd	250 mL SS24-018E	LL LCS	DO NOT USE	NA
4	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1548843.qgd	125 mL SS24-018E	SIM LCS	DO NOT USE	NA
2	APHC10STD10	TO15_SFS.qgm	R1548844.qgd	125 mL SS24-010B2	APH CC	USE AS TUNE	NA
4	CTO15-LLSTD10.0	TO15_SFS.qgm	R1548845.qgd	250 mL SS24-018E	LL LCS		NA
4	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1548846.qgd	125 mL SS24-018E	SIM LCS		NA
1	BA15061801	TO15_SFS.qgm	R1548847.qgd	250 mL	LL BLANK	DO NOT USE (CLOSED)	NA
1	BA15061802	TO15_SFS.qgm	R1548848.qgd	250 mL	LL/SIM BLANK		NA
2	L2432670-01,3,250,250	TO15_SFS.qgm	R1548849.qgd	WG1936045,ICAL21074		NY+NAPH -7SIM	Y
3	L2430987-05,3,250,250	TO15_SFS.qgm	R1548850.qgd	WG1936045,ICAL21074		NY+NAPH -7SIM	Y
4	L2432670-03,3,250,250	TO15_SFS.qgm	R1548851.qgd	WG1936045,ICAL21074	ETOH OVERCAL	NY+NAPH -7SIM	Y
5	L2432670-04,3,250,250	TO15_SFS.qgm	R1548852.qgd	WG1936045,ICAL21074		NY+NAPH -7SIM	Y
6	L2432670-05,3,250,250	TO15_SFS.qgm	R1548853.qgd	WG1936045,ICAL21074	ACETONE OVERCAL	NY+NAPH -7SIM	Y
7	L2432670-06,3,250,250	TO15_SFS.qgm	R1548854.qgd	WG1936045,ICAL21074	ACETONE OVERCAL	NY+NAPH -7SIM	Y
7	L2432670-06DUP,3,250,250	TO15_SFS.qgm	R1548855.qgd	WG1936045,ICAL21074	LL/SIM DUP	NY+NAPH -7SIM	Y
8	L2432670-07,3,250,250	TO15_SFS.qgm	R1548856.qgd	WG1936045,ICAL21074	ETOH OVERCAL	NY+NAPH -7SIM	Y

9	L2432670-08,3,250,250	TO15_SFS.qgm	R1548857.qgd	WG1936045,ICAL21074	ETOH OVERCAL	NY+NAPH -7SIM	Y
10	L2432670-09,3,250,250	TO15_SFS.qgm	R1548858.qgd	WG1936045,ICAL21074		NY+NAPH -7SIM	Y
11	L2430987-01,3,250,250	TO15_SFS.qgm	R1548859.qgd	WG1936045,ICAL21074	ETOH OVERCAL	NY+NAPH -7SIM	Y
12	L2430987-02,3,250,250	TO15_SFS.qgm	R1548860.qgd	WG1936045,ICAL21074	ETOH OVERCAL	NY+NAPH -7SIM	Y
13	L2430987-03,3,250,250	TO15_SFS.qgm	R1548861.qgd	WG1936045,ICAL21074		NY+NAPH -7SIM	Y
14	L2430987-04,3,250,250	TO15_SFS.qgm	R1548862.qgd	WG1936045,ICAL21074		NY+NAPH -7SIM	Y
15	L2432670-02,3,250,250	TO15_SFS.qgm	R1548863.qgd	WG1936045,ICAL21074	ETOH AND 2BUT OVERCAL	NY+NAPH -7SIM	Y
16	L2430552-03,3,250,250	TO15_SFS.qgm	R1548864.qgd	WG1936045,ICAL21074		NY+NAPH	Y
1	L2430552-02D,3,50,250	TO15_SFS.qgm	R1548865.qgd	WG1936045,ICAL21074	OVERDILUTED	NY+NAPH	Y
2	L2430552-01,3,250,250	TO15_SFS.qgm	R1548866.qgd	WG1936045,ICAL21074		NY+NAPH	Y
3	L2430588-01D,3,60,250	TO15_SFS.qgm	R1548867.qgd	WG1936045,ICAL21074	OVERDILUTED	NY+NAPH	Y
1	L2430552-02D,3,100,250	TO15_SFS.qgm	R1548868.qgd	WG1936045,ICAL21074	T	NY+NAPH	Y
3	L2430588-01D,3,125,250	TO15_SFS.qgm	R1548869.qgd	WG1936045,ICAL21074	T	NY+NAPH	Y
4	L2432670-03D,3,50,250	TO15_SFS.qgm	R1548870.qgd	WG1936045,ICAL21074	DID NOT RR	ETOH	Y
6	L2432670-05D,3,50,250	TO15_SFS.qgm	R1548871.qgd	WG1936045,ICAL21074	DID NOT RR	ACETONE	Y
7	L2432670-06D,3,50,250	TO15_SFS.qgm	R1548872.qgd	WG1936045,ICAL21074	DID NOT RR	ACETONE	Y
7	L2432670-06DUPD,3,50,250	TO15_SFS.qgm	R1548873.qgd	WG1936045,ICAL21074	LL DUP /DID NOT RR	ACETONE	Y
8	L2432670-07D,3,50,250	TO15_SFS.qgm	R1548874.qgd	WG1936045,ICAL21074	DID NOT RR	ETOH	Y
9	L2432670-08D,3,50,250	TO15_SFS.qgm	R1548875.qgd	WG1936045,ICAL21074	DID NOT RR	ETOH	Y
11	L2430987-01D,3,50,250	TO15_SFS.qgm	R1548870.qgd	WG1936045,ICAL21074	T	ETOH	Y
12	L2430987-02D,3,50,250	TO15_SFS.qgm	R1548871.qgd	WG1936045,ICAL21074	T	ETOH	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

June 28, 2024

Mr. Patrick Diggins
AKRF
440 Park Avenue South
7th Floor
New York, NY 10016

Re: Data Usability Summary Report – Alpha Analytical – L2432670

Dear Mr. Diggins:

The evaluation of volatile organic analytical data by Alpha Analytical for nine air samples from the Bud North site, which were reported in a single data package under Job No. L2432670, has been completed. The following samples were reported:

AA-01_20240611	IA-01_20240611	IA-02_20240611
IA-03_20240611	IA-06_20240611	IA-05_20240611
IA-04_20240611	IA-07_20240611	IA-08_20240611

Analyses were performed in accordance with EPA Method TO-15 (Volatile Organics) and TO-15 SIM (Selected Ion Monitoring). The review was performed to the extent possible, in accordance with the analytical methods and "DER-10/ Technical Guidance for Site Investigation and Remediation". Professional judgment is applied as necessary and appropriate. Qualifiers consistent with those defined by EPA Region 2 are applied as necessary and appropriate.

Below is the Data Usability Summary Report (DUSR) associated with these samples.

Data Usability Summary Report	
1. Is the data package complete as defined under the requirements for the most current DEC ASP Category B or USEPA CLP data deliverables?	Yes
2. Have all holding times been met?	Yes
3. Do all the QC data; blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications?	Yes
4. Have all of the data been generated using established and agreed upon analytical protocols?	Yes
5. Does an evaluation of the raw data confirm the results provided in the data summary sheet and the quality control verification forms?	Yes
6. Have the correct data qualifiers been used and are they consistent with the most current DEC ASP?	Yes

7. Have any quality control (QC) exceedances been specifically noted in the DUSR and have the corresponding QC summary sheet from the data package been attached to the DUSR?	Yes

Overall Evaluation

Based on the data review effort, no qualification of sample results is made.

Qualifier definitions are provided in Attachment A. A copy of the chain of custody record is provided in Attachment B.

The following components were reviewed, where applicable:

- Chain of Custody
- Receiving conditions
- Holding times
- Preservation
- Analyte lists
- Reporting limits
- Requested methods
- Units, and
- Sample related quality control data:
  - Clean Canister Certification
  - Method blanks
  - Field blanks
  - Trip Blanks
  - Surrogate recoveries
  - LCS/LCSD recoveries
  - MS/MSD recoveries
  - Internal standards
  - Serial dilutions
  - Duplicates
- Instrument related quality control data:
  - Instrument tunes
  - Calibration summaries
  - Interference Check Standards

In the remaining sections of this report, only those quality excursions resulting in qualified data are discussed below. Quality control excursions having no impact on sample results are not discussed.

Documentation: A completeness review of the data package was performed, and the data package was determined to be a complete Category B data package.

Improper edits were observed on the chain of custody (COC). Edits should be made by drawing a single line through the entry error, dated and initialed by the person making the edit.

Holding Times, Preservation, Sample Integrity:

A copy of the applicable chain of custody (COC) record was included in the data package, documenting a sample collection date of June 11, 2024. The samples were received on the same day as sample collection. All samples were received intact and analyzed within method holding time.

A. Volatile Organics

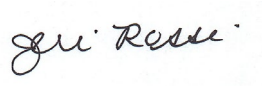
1. Compound Quantitation and Identification

The following sample results are outside the calibration range of the instrument. Results from the diluted analysis should be used and are marked 'not reportable' in the electronic data deliverable (EDD). All samples were analyzed at a dilution to bring the concentration within calibration range.

Sample	Analyte
IA-05_20240611	Acetone
IA-06_20240611	
IA-01_20240611	Ethanol
IA-02_20240611	
IA-04_20240611	
IA-07_20240611	
IA-01_20240611	2-Butanone

Please feel free to contact me at (908) 370-3431 or richjerirossi513@gmail.com if you have any questions regarding this data package review report or need further information.

Sincerely,



Jeri L Rossi, CEAC

Environmental Consulting Chemist

ATTACHMENT A

Qualifier Definitions

EPA Qualifier Definitions

U	The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value is the estimated concentration in the sample.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

ATTACHMENT B

CHAIN OF CUSTODY (COC)

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 6/12/24

ALPHA Job #: L2432670

Client Information

Client: AKRF, Inc.
Address: 440 Park Ave South Floor 7
New York, NY 10016
Phone:
Fax:
Email:
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Bud North
Project Location: 2-10 54th Ave, Long Island City, NY
Project #: 200112
Project Manager: Patrick Diggins
ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☐ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15 SIM	APH Subset Non-petroleum HCs	Fixed Gases ☐	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
32670-01	AA-01_20240611	06/11/24	1404	1406	-29.60	-7.53	AA	KO	6L	3560	0200	X					Ambient Air (Outside)
02	IA-01_20240611	06/11/24	1414	1412	-29.67	-6.87	AA	KO	6L	4313	0413	X					Indoor Air
03	IA-02_20240611	06/11/24	1417	1324	-29.88	-5.85	AA	KO	6L	3295	0710	X					Indoor Air
04	IA-03_20240611	06/11/24	1422	1418	-29.80	-7.98	AA	KO	6L	947	01624	X					Indoor Air
05	IA-06_20240611	06/11/24	1423	1422	-29.68	-9.06	AA	KO	6L	0157	01251	X					Indoor Air
06	IA-05_20240611	06/11/24	1431	1436	-29.69	-8.71	AA	KO	6L	2967	04754	X					Indoor Air
07	IA-04_20240611	06/11/24	1426	1425	-29.75	-9.98	AA	KO	6L	3085	02002	X					Indoor Air
08	IA-07_20240611	06/11/24	1428	1427	-29.55	-11.27	AA	KO	6L	896	02425	X					Indoor Air
09	IA-08_20240611	06/11/24	1433	1438	-29.71	-10.44	AA	KO	6L	3565	0310	X					Indoor Air

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

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